STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
ONSITE SEWAGE TREATMENT AND DISPOSAL SYSTEM (OSTDS)

PERMIT NO. _____
DATE PAID: _____
FEE PAID: _____
RECEIPT #: _____

## APPLICATION FOR CONSTRUCTION PERMIT

APPLICATION FOR:
[ x ] New System [ ] Existing System [ ] Holding Tank [ ] Innovative
[ ] Repair [ ] Abandonment [ ] Temporary [ ] _____

APPLICANT: GS JPD 10635 LLC EMAIL: southernsepticcorporation@gmail.com

AGENT: SOUTHERN SEPTIC AND LIFT STATION CORP TELEPHONE: 305 598-8266

MAILING ADDRESS: 21051 SW 234 ST HOMESTEAD, FL 33031

==========

TO BE COMPLETED BY APPLICANT OR APPLICANT'S AUTHORIZED AGENT. SYSTEMS MUST BE CONSTRUCTED BY A PERSON LICENSED PURSUANT TO 489.105(3)(m) OR 489.552, FLORIDA STATUTES. IT IS THE APPLICANT'S RESPONSIBILITY TO PROVIDE DOCUMENTATION OF THE DATE THE LOT WAS CREATED OR PLATTED (MM/DD/YY) IF REQUESTING CONSIDERATION OF STATUTORY GRANDFATHER PROVISIONS.

==========

PROPERTY INFORMATION OSTDS REMEDIATION PLAN? [ Y / N ]

LOT: 2 BLOCK: 6 SUBDIVISION: HELMS COUNTRY ESTS PLATTED: 1950

PROPERTY ID #: 20-5012-004-0530 ZONING: RES I/M OR EQUIVALENT: [ (Y) / N ]

PROPERTY SIZE: .919 ACRES WATER SUPPLY: [ ] PRIVATE PUBLIC [ x ]<=2000GPD [ ]>2000GPD

IS SEWER AVAILABLE AS PER 381.0065, FS? [ Y / (N) ] DISTANCE TO SEWER: N/A FT

PROPERTY ADDRESS: 10635 SW 63 AVE PINECREST, FL 33156

DIRECTIONS TO PROPERTY: SW 67 AVE TO 104 ST TO 63 AVE

BUILDING INFORMATION [ x ] RESIDENTIAL [ ] COMMERCIAL

| Unit No. | Type of Establishment | No. of Bedrooms | Building Area Sqft | Commercial/Institutional System Design Table I, Chapter 62-6, FAC |
|---|---|---|---|---|
| 1 | SFR | 6 | 8030 | |
| 2 | | | | |
| 3 | | | | |
| 4 | | | | |

DANIEL F. GUTIERREZ LICENSE No. 49086 STATE OF FLORIDA PROFESSIONAL ENGINEER

Daniel F Gutierrez Digitally signed by Daniel F Gutierrez DN: CN=Daniel F Gutierrez, emailAddress=dgutierrez0000@gmail.com, C=US, L=Florida, Florida Date: 2025.02.10 11:55:19-05'00'

[ ] Floor/Equipment Drains [ ] Other (Specify) _____

SIGNATURE: DANIEL GUTIERREZ P.E. 49086 DATE: 02-05-2025

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STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
ONSITE SEWAGE TREATMENT AND DISPOSAL SYSTEM (OSTDS)

PERMIT NO. _____
DATE PAID: _____
FEE PAID: _____
RECEIPT #: _____

## APPLICATION FOR CONSTRUCTION PERMIT

APPLICATION FOR:
[ x ] New System [ ] Existing System [ ] Holding Tank [ ] Innovative
[ ] Repair [ ] Abandonment [ ] Temporary [ ] _____

APPLICANT: GS JPD 10635 LLC EMAIL: southernsepticcorporation@gmail.com

AGENT: SOUTHERN SEPTIC AND LIFT STATION CORP TELEPHONE: 305 598-8266

MAILING ADDRESS: 21051 SW 234 ST HOMESTEAD, FL 33031

==========

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==========

PROPERTY INFORMATION OSTDS REMEDIATION PLAN? [ Y / N ]

LOT: 2 BLOCK: 6 SUBDIVISION: HELMS COUNTRY ESTS PLATTED: 1950

PROPERTY ID #: 20-5012-004-0530 ZONING: RES I/M OR EQUIVALENT: [ Y / N ]

PROPERTY SIZE: .919 ACRES WATER SUPPLY: [ ] PRIVATE PUBLIC [ x ]<=2000GPD [ ]>2000GPD

IS SEWER AVAILABLE AS PER 381.0065, FS? [ Y / N ] DISTANCE TO SEWER: N/A FT

PROPERTY ADDRESS: 10635 SW 63 AVE PINECREST, FL 33156

DIRECTIONS TO PROPERTY: SW 67 AVE TO 104 ST TO 63 AVE

"This item has been digitally signed and sealed by Daniel F. Gutierrez on the date adjacent to the seal. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies"

BUILDING INFORMATION [ x ] RESIDENTIAL [ ] COMMERCIAL

| Unit No. | Type of Establishment | No. of Bedrooms | Building Area Sqft | Commercial/Institutional System Design Table I, Chapter 62-6, FAC |
|---|---|---|---|---|
| 1 | SFR | 6 | 9387 | |
| 2 | | | | |
| 3 | | | | |
| 4 | | | | |

Daniel F Gutierrez
Digitally signed by Daniel F Gutierrez
DN: CN=Daniel F Gutierrez, serialNumber=A01410C00000195 71A387C50014606D, O=Unaffiliated, C=US
Date: 2025.03.11 10:27:33-04'00'

[ ] Floor/Equipment Drains [ ] Other (Specify) _____

DANIEL F. GUTIERREZ LICENSE No. 49086 STATE OF FLORIDA PROFESSIONAL ENGINEER

SIGNATURE: DANIEL GUTIERREZ P.E. 49086 DATE: 02-05-2025

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**STATE OF FLORIDA**
**DEPARTMENT OF ENVIRONMENTAL PROTECTION**
**ONSITE SEWAGE TREATMENT AND DISPOSAL SYSTEM**

**PERMIT NO.** _____

## SITE EVALUATION AND SYSTEM SPECIFICATIONS

**APPLICANT:** GS JPD 10635 LLC **AGENT:** SOUTHERN SEPTIC AND LIFT STATION CORP

**LOT:** 2 **BLOCK:** 6 **SUBDIVISION:** HELMS COUNTRY ESTS

**PROPERTY ID #:** 20-5012-004-0530 [Section/Township/Parcel No. or Tax ID Number]

**TO BE COMPLETED BY ENGINEER, HEALTH DEPARTMENT EMPLOYEE,OR OTHER QUALIFIED PERSON. ENGINEERS MUST PROVIDE REGISTRATION NUMBER AND SIGN AND SEAL EACH PAGE OF SUBMITTAL. COMPLETE ALL ITEMS.**

**PROPERTY SIZE CONFORMS TO SITE PLAN:** [×] YES [ ] NO **NET USABLE AREA AVAILABLE:** .99 **ACRES**
**TOTAL ESTIMATED SEWAGE FLOW:** 383/820 **GALLONS PER DAY** [**TABLE I** / OTHER]
**AUTHORIZED SEWAGE FLOW:** 2475 **GALLONS PER DAY [1500 GPD/ACRE OR** [**2500 GPD/ACRE**]
**UNOBSTRUCTED AREA AVAILABLE:** 959 **SQFT** **UNOBSTRUCTED AREA REQUIRED:** 958 **SQFT**

**BENCHMARK/REFERENCE POINT LOCATION:** 10.9' C/L OF SW 63 AVE
**ELEVATION OF PROPOSED SYSTEM SITE IS** 8.4 [**INCHES**/FT] [ABOVE/**BELOW**] **BENCHMARK/REFERENCE POINT**

**THE MINIMUM SETBACK WHICH CAN BE MAINTAINED FROM THE PROPOSED SYSTEM TO THE FOLLOWING FEATURES**
**SURFACE WATER:** N/A **FT** **DITCHES/SWALES:** 20 **FT** **NORMALLY WET?** [ ] YES [×] NO
**WELLS: PUBLIC:** N/A **FT** **LIMITED USE:** N/A **FT** **PRIVATE:** N/A **FT** **NON-POTABLE:** N/A **FT**
**BUILDING FOUNDATIONS:** 46 **FT** **PROPERTY LINES:** 5 **FT** **POTABLE WATER LINES:** 169 **FT**

**SITE SUBJECT TO FREQUENT FLOODING:** [ ] YES [×] NO **10 YEAR FLOODING?** [ ] YES [ ] NO
**10 YEAR FLOOD ELEVATION FOR SITE:** _____ **FT MSL/NGVD** **SITE ELEVATION:** 10.2 **FT MSL/NGVD**

SHWT 4.0

**SOIL PROFILE INFORMATION SITE 1**

| MUNSELL #/COLOR | TEXTURE | DEPTH |
|---|---|---|
| 10 YR 4/1 | LOAMY SAND | 0 TO 42 |
| DARK GRAY | | TO |
| 10 YR 8/3 | OOLITIC LIME | 42 TO 42 |
| VERY PALE BR | | TO |
| REFUSAL AT 42" | | TO |
| | | TO |
| | | TO |
| | | TO |
| | | TO |

**USDA SOIL SERIES:** UDORTHENTS

**SOIL PROFILE INFORMATION SITE 2**

| MUNSELL #/COLOR | TEXTURE | DEPTH |
|---|---|---|
| 10 YR 4/1 | LOAMY SAND | 0 TO 42 |
| DARK GRAY | | TO |
| 10 YR 8/3 | OOLITIC LIME | 42 TO 42 |
| VERY PALE BR | | TO |
| REFUSAL AT 42" | | TO |
| | | TO |
| | | TO |
| | | TO |
| | | TO |

**USDA SOIL SERIES:** UDORTHENTS

**OBSERVED WATER TABLE:** N/A **INCHES [ABOVE / BELOW] EXISTING GRADE. TYPE:[PERCHED /** [**APPARENT**]
**ESTIMATED WET SEASON WATER TABLE ELEVATION:** 74.4 **INCHES** [ABOVE / **BELOW**] **EXISTING GRADE**
**HIGH WATER TABLE VEGETATION:** [ ] YES [×] NO **WSWT INDICATOR:** [ ] YES [×] NO **DEPTH:** N/A **INCHES**

**SOIL TEXTURE/LOADING RATE FOR SYSTEM SIZING:** .60 **DEPTH OF EXCAVATION:** 72 **INCHES**
**DRAINFIELD CONFIGURATION:** [ ] TRENCH [×] BED [ ] OTHER (SPECIFY) _____
**REMARKS/ADDITIONAL CRITERIA:** _____

DANIEL F. GUTIERREZ LICENSE No. 49086 STATE OF FLORIDA PROFESSIONAL ENGINEER

Daniel F Gutierrez

**SITE EVALUATED BY:** DANIEL GUTIERREZ P.E. 049086 **DATE:** 02-05-2025

DEP 4015, 06-21-2022 (Obsoletes previous editions which may not be used)

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10635 SW 63 AVE SYSTEM 1_Part5.pdf

# STATE OF FLORIDA
# DEPARTMENT OF ENVIRONMENTAL PROTECTION
# ONSITE SEWAGE TREATMENT AND DISPOSAL SYSTEM

PERMIT NO. _____

## SITE EVALUATION AND SYSTEM SPECIFICATIONS

APPLICANT: GS JPD 10635 LLC AGENT: SOUTHERN SEPTIC AND LIFT STATION CORP

LOT: 2 BLOCK: 6 SUBDIVISION: HELMS COUNTRY ESTS

PROPERTY ID #: 20-5012-004-0530 [Section/Township/Parcel No. or Tax ID Number]

TO BE COMPLETED BY ENGINEER, HEALTH DEPARTMENT EMPLOYEE,OR OTHER QUALIFIED PERSON. ENGINEERS MUST PROVIDE REGISTRATION NUMBER AND SIGN AND SEAL EACH PAGE OF SUBMITTAL. COMPLETE ALL ITEMS.

PROPERTY SIZE CONFORMS TO SITE PLAN: [×] YES [ ] NO NET USABLE AREA AVAILABLE: .99 ACRES

TOTAL ESTIMATED SEWAGE FLOW: 439/940 GALLONS PER DAY [TABLE I / OTHER]

AUTHORIZED SEWAGE FLOW: 2475 GALLONS PER DAY [1500 GPD/ACRE OR 2500 GPD/ACRE]

UNOBSTRUCTED AREA AVAILABLE: 1098 SQFT UNOBSTRUCTED AREA REQUIRED: 1098 SQFT

BENCHMARK/REFERENCE POINT LOCATION: 10.9' C/L OF SW 63 AVE

ELEVATION OF PROPOSED SYSTEM SITE IS 8.4 [INCHES/FT] [ABOVE/BELOW] BENCHMARK/REFERENCE POINT

THE MINIMUM SETBACK WHICH CAN BE MAINTAINED FROM THE PROPOSED SYSTEM TO THE FOLLOWING FEATURES

SURFACE WATER: N/A FT DITCHES/SWALES: 20 FT NORMALLY WET? [ ] YES [×] NO

WELLS: PUBLIC: N/A FT LIMITED USE: N/A FT PRIVATE: N/A FT NON-POTABLE: N/A FT

BUILDING FOUNDATIONS: 46 FT PROPERTY LINES: 5 FT POTABLE WATER LINES: 169 FT

SITE SUBJECT TO FREQUENT FLOODING: [ ] YES [×] NO 10 YEAR FLOODING? [ ] YES [ ] NO

10 YEAR FLOOD ELEVATION FOR SITE: _____ FT MSL/NGVD SITE ELEVATION: 10.2 FT MSL/NGVD

SHWT 4.0

SOIL PROFILE INFORMATION SITE 1

| MUNSELL #/COLOR | TEXTURE | DEPTH |
|---|---|---|
| 10 YR 4/1 | LOAMY SAND | 0 TO 42 |
| DARK GRAY | | TO |
| 10 YR 8/3 | OOLITIC LIME | 42 TO 42 |
| VERY PALE BR | | TO |
| REFUSAL AT 42" | | TO |
| | | TO |
| | | TO |
| | | TO |
| | | TO |

USDA SOIL SERIES: UDORTHENTS

SOIL PROFILE INFORMATION SITE 2

| MUNSELL #/COLOR | TEXTURE | DEPTH |
|---|---|---|
| 10 YR 4/1 | LOAMY SAND | 0 TO 42 |
| DARK GRAY | | TO |
| 10 YR 8/3 | OOLITIC LIME | 42 TO 42 |
| VERY PALE BR | | TO |
| REFUSAL AT 42" | | TO |
| | | TO |
| | | TO |
| | | TO |
| | | TO |

USDA SOIL SERIES: UDORTHENTS

OBSERVED WATER TABLE: N/A INCHES [ABOVE / BELOW] EXISTING GRADE. TYPE:[PERCHED / APPARENT]

ESTIMATED WET SEASON WATER TABLE ELEVATION: 74.4 INCHES [ABOVE / BELOW] EXISTING GRADE

HIGH WATER TABLE VEGETATION: [ ] YES [×] NO WSWT INDICATOR: [ ] YES [×] NO DEPTH: N/A INCHES

SHWT 4.0

SOIL TEXTURE/LOADING RATE FOR SYSTEM SIZING: .60 DEPTH OF EXCAVATION: 72 INCHES

DRAINFIELD CONFIGURATION: [ ] TRENCH [×] BED [ ] OTHER (SPECIFY) _____

REMARKS/ADDITIONAL CRITERIA: _____

DANIEL F. GUTIERREZ LICENSE No. 49086 STATE OF FLORIDA PROFESSIONAL ENGINEER

Daniel F Gutierrez

"This item has been digitally signed and sealed by Daniel F. Gutierrez on the date adjacent to the seal. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies"

SITE EVALUATED BY: DANIEL GUTIERREZ P.E. 049086 DATE: 03-10-2025

DEP 4015, 06-21-2022 (Obsolete previous editions which may not be used)

**STATE OF FLORIDA**
**DEPARTMENT OF ENVIRONMENTAL PROTECTION**
**ONSITE SEWAGE TREATMENT AND DISPOSAL SYSTEM (OSTDS)**

PERMIT NO. _____
DATE PAID: _____
FEE PAID: _____
RECEIPT #: _____

## APPLICATION FOR CONSTRUCTION PERMIT

APPLICATION FOR:
[ x ] New System [ ] Existing System [ ] Holding Tank [ ] Innovative
[ ] Repair [ ] Abandonment [ ] Temporary [ ] _____

APPLICANT: GS JPD 10635 LLC EMAIL: southernsepticcorporation@gmail.com

AGENT: SOUTHERN SEPTIC AND LIFT STATION CORP TELEPHONE: 305 598-8266

MAILING ADDRESS: 21051 SW 234 ST HOMESTEAD, FL 33031

==========

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==========

PROPERTY INFORMATION OSTDS REMEDIATION PLAN? [ Y / N ]

LOT: 2 BLOCK: 6 SUBDIVISION: HELMS COUNTRY ESTS PLATTED: 1950

PROPERTY ID #: 20-5012-004-0530 ZONING: RES I/M OR EQUIVALENT: [ (Y) / N ]

PROPERTY SIZE: .919 ACRES WATER SUPPLY: [ ] PRIVATE PUBLIC [ x ]<=2000GPD [ ]>2000GPD

IS SEWER AVAILABLE AS PER 381.0065, FS? [ Y / (N) ] DISTANCE TO SEWER: N/A FT

PROPERTY ADDRESS: 10635 SW 63 AVE PINECREST, FL 33156

DIRECTIONS TO PROPERTY: SW 67 AVE TO 104 ST TO 63 AVE

BUILDING INFORMATION [ x ] RESIDENTIAL [ ] COMMERCIAL

| Unit No. | Type of Establishment | No. of Bedrooms | Building Area Sqft | Commercial/Institutional System Design Table I, Chapter 62-6, FAC |
|---|---|---|---|---|
| 1 | SFR | 6 | 8030 | |
| 2 | | | | |
| 3 | | | | |
| 4 | | | | |

[ ] Floor/Equipment Drains [ ] Other (Specify) _____

Daniel F Gutierrez
Digitally signed by Daniel F Gutierrez
DN: CN=Daniel F Gutierrez, A=Qualtrier=A01410D000000017F0DC0E1C2001291 3D, O=Florida, C=US
Date: 2025.02.10 11:56:52-05'00'

DANIEL F. GUTIERREZ LICENSE No. 49086 STATE OF FLORIDA PROFESSIONAL ENGINEER

SIGNATURE: DANIEL GUTIERREZ P.E. 49086 DATE: 02-05-2025

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**STATE OF FLORIDA**
**DEPARTMENT OF ENVIRONMENTAL PROTECTION**
**ONSITE SEWAGE TREATMENT AND DISPOSAL SYSTEM (OSTDS)**

PERMIT NO. _____
DATE PAID: _____
FEE PAID: _____
RECEIPT #: _____

## APPLICATION FOR CONSTRUCTION PERMIT

APPLICATION FOR:
[ x ] New System [ ] Existing System [ ] Holding Tank [ ] Innovative
[ ] Repair [ ] Abandonment [ ] Temporary [ ] _____

APPLICANT: GS JPD 10635 LLC EMAIL: southernsepticcorporation@gmail.com

AGENT: SOUTHERN SEPTIC AND LIFT STATION CORP TELEPHONE: 305 598-8266

MAILING ADDRESS: 21051 SW 234 ST HOMESTEAD, FL 33031

==========

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==========

PROPERTY INFORMATION OSTDS REMEDIATION PLAN? [ Y / N ]

LOT: 2 BLOCK: 6 SUBDIVISION: HELMS COUNTRY ESTS PLATTED: 1950

PROPERTY ID #: 20-5012-004-0530 ZONING: RES I/M OR EQUIVALENT: [ (Y) / N ]

PROPERTY SIZE: .919 ACRES WATER SUPPLY: [ ] PRIVATE PUBLIC [ x ]<=2000GPD [ ]>2000GPD

IS SEWER AVAILABLE AS PER 381.0065, FS? [ Y / (N) ] DISTANCE TO SEWER: N/A FT

PROPERTY ADDRESS: 10635 SW 63 AVE PINECREST, FL 33156

DIRECTIONS TO PROPERTY: SW 67 AVE TO 104 ST TO 63 AVE

*"This item has been digitally signed and sealed by Daniel F. Gutierrez on the date adjacent to the seal. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies"*

BUILDING INFORMATION [ x ] RESIDENTIAL [ ] COMMERCIAL

| Unit No. | Type of Establishment | No. of Bedrooms | Building Area Sqft | Commercial/Institutional System Design Table I, Chapter 62-6, FAC |
|---|---|---|---|---|
| 1 | SFR | 6 | 9387 | |
| 2 | | | | |
| 3 | | | | |
| 4 | | | | |

Daniel F Gutierrez
Digitally signed by Daniel F Gutierrez
DN: CN=Daniel F Gutierrez, serialNumber=A01410C000019571A387C500146060, O=Unaffiliated, C=US
Date: 2025.03.11 10:26:38-04'00'

[ ] Floor/Equipment Drains [ ] Other (Specify) _____

DANIEL F. GUTIERREZ LICENSE No. 49086 STATE OF FLORIDA PROFESSIONAL ENGINEER

SIGNATURE: DANIEL GUTIERREZ P.E. 49086 DATE: 02-05-2025

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**STATE OF FLORIDA**
**DEPARTMENT OF ENVIRONMENTAL PROTECTION**
**ONSITE SEWAGE TREATMENT AND DISPOSAL SYSTEM**

**PERMIT NO.** _____

## SITE EVALUATION AND SYSTEM SPECIFICATIONS

**APPLICANT:** GS JPD 10635 LLC **AGENT:** SOUTHERN SEPTIC AND LIFT STATION CORP

**LOT:** 2 **BLOCK:** 6 **SUBDIVISION:** HELMS COUNTRY ESTS

**PROPERTY ID #:** 20-5012-004-0530 [Section/Township/Parcel No. or Tax ID Number]

**TO BE COMPLETED BY ENGINEER, HEALTH DEPARTMENT EMPLOYEE,OR OTHER QUALIFIED PERSON. ENGINEERS MUST PROVIDE REGISTRATION NUMBER AND SIGN AND SEAL EACH PAGE OF SUBMITTAL. COMPLETE ALL ITEMS.**

**PROPERTY SIZE CONFORMS TO SITE PLAN:** [×] YES [ ] NO **NET USABLE AREA AVAILABLE:** .99 **ACRES**
**TOTAL ESTIMATED SEWAGE FLOW:** 437/820 **GALLONS PER DAY** [**TABLE I** / OTHER]
**AUTHORIZED SEWAGE FLOW:** 2475 **GALLONS PER DAY [1500 GPD/ACRE OR** [**2500 GPD/ACRE**]
**UNOBSTRUCTED AREA AVAILABLE:** 1093 **SQFT** **UNOBSTRUCTED AREA REQUIRED:** 1094 **SQFT**

**BENCHMARK/REFERENCE POINT LOCATION:** 10.9' C/L OF SW 63 AVE
**ELEVATION OF PROPOSED SYSTEM SITE IS** 8.4 [**INCHES**/FT] [ABOVE/**BELOW**] **BENCHMARK/REFERENCE POINT**

**THE MINIMUM SETBACK WHICH CAN BE MAINTAINED FROM THE PROPOSED SYSTEM TO THE FOLLOWING FEATURES**
**SURFACE WATER:** N/A **FT** **DITCHES/SWALES:** 20 **FT** **NORMALLY WET?** [ ] YES [×] NO
**WELLS: PUBLIC:** N/A **FT** **LIMITED USE:** N/A **FT** **PRIVATE:** N/A **FT** **NON-POTABLE:** N/A **FT**
**BUILDING FOUNDATIONS:** 61 **FT** **PROPERTY LINES:** 10 **FT** **POTABLE WATER LINES:** 150 **FT**

**SITE SUBJECT TO FREQUENT FLOODING:** [ ] YES [×] NO **10 YEAR FLOODING?** [ ] YES [ ] NO
**10 YEAR FLOOD ELEVATION FOR SITE:** _____ **FT MSL/NGVD** **SITE ELEVATION:** 10.2 **FT MSL/NGVD**

SHWT 4.0

**SOIL PROFILE INFORMATION SITE 1**

| MUNSELL #/COLOR | TEXTURE | DEPTH |
|---|---|---|
| 10 YR 4/1 | LOAMY SAND | 0 TO 42 |
| DARK GRAY | | TO |
| 10 YR 8/3 | OOLITIC LIME | 42 TO 42 |
| VERY PALE BR | | TO |
| REFUSAL AT 42" | | TO |
| | | TO |
| | | TO |
| | | TO |
| | | TO |

**USDA SOIL SERIES:** UDORTHENTS

**SOIL PROFILE INFORMATION SITE 2**

| MUNSELL #/COLOR | TEXTURE | DEPTH |
|---|---|---|
| 10 YR 4/1 | LOAMY SAND | 0 TO 42 |
| DARK GRAY | | TO |
| 10 YR 8/3 | OOLITIC LIME | 42 TO 42 |
| VERY PALE BR | | TO |
| REFUSAL AT 42" | | TO |
| | | TO |
| | | TO |
| | | TO |
| | | TO |

**USDA SOIL SERIES:** UDORTHENTS

**OBSERVED WATER TABLE:** N/A **INCHES [ABOVE / BELOW] EXISTING GRADE. TYPE:[PERCHED /** [**APPARENT**]
**ESTIMATED WET SEASON WATER TABLE ELEVATION:** 74.4 **INCHES** [ABOVE / **BELOW**] **EXISTING GRADE**
**HIGH WATER TABLE VEGETATION:** [ ] YES [×] NO **WSWT INDICATOR:** [ ] YES [×] NO **DEPTH:** N/A **INCHES**

**SOIL TEXTURE/LOADING RATE FOR SYSTEM SIZING:** .60 **DEPTH OF EXCAVATION:** 72 **INCHES**
**DRAINFIELD CONFIGURATION:** [ ] TRENCH [×] BED [ ] OTHER (SPECIFY) _____
**REMARKS/ADDITIONAL CRITERIA:** _____

DANIEL F. GUTIERREZ LICENSE No. 49086 STATE OF FLORIDA PROFESSIONAL ENGINEER

Daniel F Gutierrez

**SITE EVALUATED BY:** DANIEL GUTIERREZ P.E. 049086 **DATE:** 02-05-2025

DEP 4015, 06-21-2022 (Obsoletes previous editions which may not be used)

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# STATE OF FLORIDA
# DEPARTMENT OF ENVIRONMENTAL PROTECTION
# ONSITE SEWAGE TREATMENT AND DISPOSAL SYSTEM

PERMIT NO. _____

## SITE EVALUATION AND SYSTEM SPECIFICATIONS

APPLICANT: GS JPD 10635 LLC AGENT: SOUTHERN SEPTIC AND LIFT STATION CORP

LOT: 2 BLOCK: 6 SUBDIVISION: HELMS COUNTRY ESTS

PROPERTY ID #: 20-5012-004-0530 [Section/Township/Parcel No. or Tax ID Number]

TO BE COMPLETED BY ENGINEER, HEALTH DEPARTMENT EMPLOYEE,OR OTHER QUALIFIED PERSON. ENGINEERS MUST PROVIDE REGISTRATION NUMBER AND SIGN AND SEAL EACH PAGE OF SUBMITTAL. COMPLETE ALL ITEMS.

PROPERTY SIZE CONFORMS TO SITE PLAN: [×] YES [ ] NO NET USABLE AREA AVAILABLE: .99 ACRES

TOTAL ESTIMATED SEWAGE FLOW: 502/940 GALLONS PER DAY [TABLE I / OTHER]

AUTHORIZED SEWAGE FLOW: 2475 GALLONS PER DAY [1500 GPD/ACRE OR 2500 GPD/ACRE]

UNOBSTRUCTED AREA AVAILABLE: 1256 SQFT UNOBSTRUCTED AREA REQUIRED: 1256 SQFT

BENCHMARK/REFERENCE POINT LOCATION: 10.9' C/L OF SW 63 AVE

ELEVATION OF PROPOSED SYSTEM SITE IS 8.4 [INCHES/FT] [ABOVE/BELOW] BENCHMARK/REFERENCE POINT

THE MINIMUM SETBACK WHICH CAN BE MAINTAINED FROM THE PROPOSED SYSTEM TO THE FOLLOWING FEATURES

SURFACE WATER: N/A FT DITCHES/SWALES: 20 FT NORMALLY WET? [ ] YES [×] NO

WELLS: PUBLIC: N/A FT LIMITED USE: N/A FT PRIVATE: N/A FT NON-POTABLE: N/A FT

BUILDING FOUNDATIONS: 61 FT PROPERTY LINES: 10 FT POTABLE WATER LINES: 150 FT

SITE SUBJECT TO FREQUENT FLOODING: [ ] YES [×] NO 10 YEAR FLOODING? [ ] YES [ ] NO

10 YEAR FLOOD ELEVATION FOR SITE: _____ FT MSL/NGVD SITE ELEVATION: 10.2 FT MSL/NGVD

SHWT 4.0

SOIL PROFILE INFORMATION SITE 1

| MUNSELL #/COLOR | TEXTURE | DEPTH |
|---|---|---|
| 10 YR 4/1 | LOAMY SAND | 0 TO 42 |
| DARK GRAY | | TO |
| 10 YR 8/3 | OOLITIC LIME | 42 TO 42 |
| VERY PALE BR | | TO |
| REFUSAL AT 42" | | TO |
| | | TO |
| | | TO |
| | | TO |
| | | TO |

USDA SOIL SERIES: UDORTHENTS

SOIL PROFILE INFORMATION SITE 2

| MUNSELL #/COLOR | TEXTURE | DEPTH |
|---|---|---|
| 10 YR 4/1 | LOAMY SAND | 0 TO 42 |
| DARK GRAY | | TO |
| 10 YR 8/3 | OOLITIC LIME | 42 TO 42 |
| VERY PALE BR | | TO |
| REFUSAL AT 42" | | TO |
| | | TO |
| | | TO |
| | | TO |
| | | TO |

USDA SOIL SERIES: UDORTHENTS

OBSERVED WATER TABLE: N/A INCHES [ABOVE / BELOW] EXISTING GRADE. TYPE:[PERCHED / APPARENT]

ESTIMATED WET SEASON WATER TABLE ELEVATION: 74.4 INCHES [ABOVE / BELOW] EXISTING GRADE

HIGH WATER TABLE VEGETATION: [ ] YES [×] NO WSWT INDICATOR: [ ] YES [×] NO DEPTH: N/A INCHES

SHWT: 4'

SOIL TEXTURE/LOADING RATE FOR SYSTEM SIZING: .60 DEPTH OF EXCAVATION: 72 INCHES

DRAINFIELD CONFIGURATION: [ ] TRENCH [×] BED [ ] OTHER (SPECIFY) _____

REMARKS/ADDITIONAL CRITERIA: _____

DANIEL F. GUTIERREZ LICENSE No. 49086 STATE OF FLORIDA PROFESSIONAL ENGINEER

Daniel F Gutierrez

"This item has been digitally signed and sealed by Daniel F. Gutierrez on the date adjacent to the seal. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies"

SITE EVALUATED BY: DANIEL GUTIERREZ P.E. 049086 DATE: 03-10-2025



Miami Dade County Department of Regulatory and Economic Resources Job Copy
2025004680 - 6/27/2025 8:28:53 AM
10635 SW 63 AVE SYSTEM 2_Part5_V2.pdf
Incorporated: 62-6.004, FAC

## SCOPE OF PROJECT:

NEW TWO STORY RESIDENCE

## PROJECT TEAM:


ARCHITECT:
BALLI-TRAUTMAN ARCHITECTS
1533 SUNSET DRIVE SUITE 101
CORAL GABLES, FLORIDA 33143
305-669-5160

STRUCTURAL ENGINEER:
TOM BELFRANIN
4836 SW 74 CT
MIAMI, FL 33155
305-669-0255

MEP ENGINEER:
DFG CONSULTING ENGINEERS
13233 SW 85TH LANE
MIAMI, FLORIDA 33173
786-499-4167

LANDSCAPE ARCHITECT:
HL MARTIN
5965 SW 38TH STREET
MIAMI, FLORIDA 33155
305-790-4372
HLMARTINUFIU@BELLSOUTH.NET

CIVIL ENGINEER:
TSUR CONSULTING, INC
21011 NE 32ND AVE.
AVENTURA, FLORIDA 33180
305-332-8881
TSURCONSULTING@AOL.COM

## INDEX OF DRAWINGS


ARCHITECTURE:

| | |
|---|---|
| A000 | COVER |
| A100 | SITE PLAN & ZONING |
| A101 | FIRST FLOOR PLAN |
| A101.1 | FIRST FLOOR RCP |
| A102 | SECOND FLOOR PLAN |
| A102.1 | SECOND FLOOR RCP |
| A103 | ELEVATIONS E/W |
| A104 | ELEVATIONS S/N |
| A105 | SECTIONS |
| A106 | SECTIONS |
| A107 | WALL SECTIONS |
| A108 | DETAILS |
| A109 | SCHEDULES |

STRUCTURAL:

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| S-2 | SECOND FLOOR FRAMING PLAN |
| S-3 | ROOF FRAMING PLAN |
| S-4 | NOTES & TYP. DETAILS |
| S-5.1 | SECTIONS |
| S-5.2 | SECTIONS |
| S-6 | SECTIONS |
| S-7 | SECTIONS |
| S-8 | SECTIONS |
| S-9 | SECTIONS |
| S-10 | SECTIONS |
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| SWP-2 | ROOF FRAMING PLAN |

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| M-103 | NOTES AND SCHEDULES |
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| E-103 | LIGHTING 2ND FLOOR PLAN |
| E-104 | POWER 1ST FLOOR PLAN |
| E-105 | POWER 2ND FLOOR PLAN |

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| | |
|---|---|
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| LA-2 | NOTES, DETAILS, LEGEND & PLANT LISTS |
| LA-3 | TREE SURVEY/DISPOSITION & PROTECTION PLAN |
| LA-4 | GRADING PLAN |


## GENERAL NOTES:

1. THE CONTRACTOR SHALL VISIT THE PREMISES AND THOROUGHLY FAMILIARIZE HIMSELF WITH ALL DETAILS OF THE WORK AND WORKING CONDITIONS. VERIFY ALL DIMENSIONS IN THE FIELD, AND ADVISE THE ARCHITECT / ENGINEER OF ANY DISCREPANCY BEFORE PERFORMING THE WORK.

2. THE CONTRACTOR SHALL PERFORM ALL WORK REQUIRED UNDER THIS CONTRACT FOR A COMPLETE INSTALLATION AND IN SUCH MANNER THAT SURFACES NOT AFFECTED BY REMOVAL OF EXISTING OR FROM NEW WORK SHALL REMAIN UNDISTURBED AND NORMAL ACTIVITIES AT THE INSTALLATION MAY CONTINUE WITH THE LEAST POSSIBLE INTERFERENCE. ALL DEBRIS SHALL BE REMOVED FROM THE SITE OF THE WORK AT THE END OF EACH WORKING DAY. MATERIALS AND EQUIPMENT SHALL BE STORED ONLY AT LOCATIONS APPROVED BY THE ARCHITECT / ENGINEER AND OWNER'S REPRESENTATIVE.

3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF THE STRUCTURES AND PERSONNEL DURING THE WORK UNDER THIS CONTRACT. ALL ALTERING, CUTTING, DRILLING OF PAVEMENT, FLOOR AND OTHER MODIFICATIONS SHALL BE NEATLY AND CAREFULLY DONE BY SKILLED MECHANICS.

4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGE TO EXISTING WORK, MATERIALS, AND EQUIPMENT AS A RESULT OF HIS OPERATIONS. ALL DAMAGED WORK SHALL BE REPAIRED OR REPLACED WITH MATERIALS OF LIKE TYPE, QUALITY AND FINISH BY SKILLED MECHANICS OF THE TRADES INVOLVED AT NO ADDITIONAL COST TO THE OWNER AND TO THE FULL SATISFACTION OF THE ARCHITECT / ENGINEER.

5. DISPOSAL OF ALL MATERIAL NOT SPECIFIED OR SHOWN TO BE SALVAGED AND / OR REUSED RESULTING FROM REMOVAL OPERATIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. ALL COSTS IN CONNECTION WITH DISPOSING OF THE MATERIALS WILL BE AT THE CONTRACTOR'S EXPENSE. ALL LIABILITY OF ANY NATURE RESULTING FROM THE DISPOSAL OF THE MATERIALS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.

6. CONTRACTOR SHALL PROVIDE AND MAINTAIN ACCESS TO ALL EXISTING FACILITIES AND THOSE UNDER CONSTRUCTION IN THE IMMEDIATE VICINITY, AT ALL TIMES DURING CONSTRUCTION OF PROPOSED PROJECT.

7. CONTRACTOR SHALL INSTALL SECURITY FENCING AND BARRICADES AS REQUIRED BY THE LOCAL AUTHORITIES, AND/OR DIRECTED BY ARCHITECT / ENGINEER.

8. VERIFICATION OF EXISTING CONDITIONS:
EACH CONTRACTOR SHALL DETERMINE AND VERIFY ALL DIMENSIONS AND CONDITIONS AT THE BUILDING SITE AND SHALL BE RESPONSIBLE FOR SAME BEFORE COMMENCING THE WORK. DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT AND/OR ENGINEER AND SHALL BE RESOLVED BEFORE RESUMING THE WORK. DIMENSIONS SHALL BE READ AND NEVER SCALED OR ESTIMATED FROM THE ARCHITECTURAL DRAWINGS.

9. CODE COMPLIANCE:
EACH CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE (R) 2023 8TH ED., AND WITH ALL OTHER CODES AND GOVERNMENTAL AGENCIES HAVING JURISDICTION OVER HIS PORTION OF THE WORK. EACH CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR SAFETY PRECAUTION AND PROGRAMS IN CONNECTION WITH HIS PORTION OF THE WORK.

10. EXAMINATION OF THE CONTRACT DOCUMENTS AND SITE:
EACH CONTRACTOR FOR THIS PROJECT SHALL STUDY AND FAMILIARIZE HIMSELF WITH THE SITE AND WITH ALL THE DRAWINGS FOR ALL TRADES AND PARTS OF THE WORK. SHOULD ANY CONTRACTOR HAVE THE OPINION THAT THERE EXISTS IN THE ARCHITECTURAL DRAWINGS ANY ERRORS OR DISCREPANCIES, OR THAT CONDITIONS OF THE WORK OF ANY OTHER CONTRACTOR IS SUCH THAT IT WILL PREVENT HIM FROM COMPLETING HIS WORK IN A COMPETENT MANNER, HE SHALL NOTIFY THE ARCHITECT OF SUCH BEFORE PROCEEDING WITH HIS WORK.

    THE CONTRACTOR SHALL HAVE AT THE BUILDING SITE, FROM START TO FINISH OF CONSTRUCTION, A RESPONSIBLE FOREMAN. IN ADDITION, THE CONTRACTOR SHALL GIVE HIS PERSONAL SUPERVISION TO THE WORK. THE FOREMAN SHALL BE ON DUTY DURING ALL WORKING HOURS. ANY INSTRUCTIONS OR NOTICES GIVEN TO HIM SHALL HAVE THE SAME IMPORTANCE AS IF GIVEN TO THE CONTRACTOR IN PERSON.

    THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING TEMPORARY PROVISIONS SUCH AS TOILETS, WATER SUPPLY, LIGHT AND POWER AS WELL AS ANY OTHER DEEMED NECESSARY FOR THE COMPLETION OF THE BUILDING.

    ANY ITEM OF WORK NECESSARY TO THE PROPER COMPLETION OF CONSTRUCTION WHICH IS NOT SPECIFICALLY COVERED IN THESE DOCUMENTS SHALL BE PERFORMED IN A MANNER DEEMED GOOD PRACTICE OF THE TRADE INVOLVED.

11. PERMITS, FEES AND TAXES:
THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS, FEES LICENSES AND DEPOSITS AND BE LIABLE FOR ALL STATE AND FEDERAL SALES TAXES, AND ALL OBLIGATION UNDER THE FEDERAL SECURITY ACT. UPON COMPLETION OF THE PROJECT, THE CONTRACTOR SHALL OBTAIN CERTIFICATES OF COMPLIANCE, APPROVAL OR ACCEPTANCE FROM ALL AUTHORITIES HAVING JURISDICTION OVER THE WORK AND DELIVER THESE CERTIFICATES TO THE OWNER ALONG WITH OFFICIAL RECEIPTS FOR SAME.
12. PERFORMANCE OF WORK:
NO SUBCONTRACTOR SHALL BEGIN HIS WORK UNLESS THE PREVIOUS TRADES, UPON WHOM HE IS DEPENDENT, HAS PERFORMED THEIR WORK SATISFACTORILY ACCORDING TO THE PLANS AND SPECIFICATIONS. ONCE THE CONTRACTOR HAS STARTED HIS WORK, HE ASSUMES FULL RESPONSIBILITY FOR THAT WORK, BOTH FOR MATERIALS AND LABOR PERFORMED. ALL SUBCONTRACTORS ARE RESPONSIBLE FOR REMOVING DEBRIS RESULTING FROM THEIR WORK FROM THE PREMISES.
13. CLEANUP:
IN ADDITION TO THE REMOVAL OF ALL CONSTRUCTION DEBRIS FROM THE PREMISES, IT IS THE FINAL RESPONSIBILITY OF THE CONTRACTOR TO REMOVE ALL SMUDGES, SPOTS OF PLASTER, PUTTY, CAULKING COMPOUND, ADHESIVE, PAINT AND PENCIL MARKINGS, TAGS AND DESTINATION LABELS NOT CALLED FOR AS BEING PERMANENT. THE CONTRACTOR SHALL ALSO CLEAN EACH AREA SEPARATELY, INCLUDING THE WASHING OF ALL WINDOWS AND VACUUMING OR WAXING OF ALL FLOORS, PRIOR TO HANDING THE COMPLETED PROJECT OVER TO THE OWNER.
14. MATERIALS:
ALL MATERIALS SHALL BE NEW, AS CALLED FOR IN THE DRAWINGS, AND THE BEST OF THEIR RESPECTIVE KINDS. NO SUBSTITUTIONS SHALL BE MADE BY THE CONTRACTOR WITHOUT PRIOR WRITTEN APPROVAL BY THE OWNER, UNLESS SPECIFIED OTHERWISE ON THE DRAWINGS. FOR PORTIONS OF THE WORK NOT SHOWN IN DETAIL, BUT WHICH ARE SHOWN GENERALLY, OR ARE REASONABLY INFERABLE AS BEING REQUIRED FOR A COMPETENT AND COMPLETE INSTALLATION, THE MATERIAL METHODS AND WORKMANSHIP SHALL CONFORM AS A MINIMUM TO THE TYPICAL OR REPRESENTATIVE.
15. FIRE RESISTANCE / UNDERWRITERS LABORATORY RATINGS:
WHERE ASSEMBLIES OR THEIR VARIOUS COMPONENTS, MATERIALS OR CONSTRUCTION SYSTEMS ARE INDICATED TO HAVE FIRE RESISTANCE RATINGS / UNDERWRITERS LABORATORY RATINGS, ALL SUCH SHALL BE COMPOSED OF MATERIALS AND BE ASSEMBLED SO AS TO CONFORM TO THE STANDARDS ESTABLISHED IN GOVERNING CODES IN ORDER TO ACHIEVE THE REQUIRED RATING IN THE COMPLETED WORK.
16. CUTTING AND PATCHING:
EACH CONTRACTOR SHALL BE RESPONSIBLE FOR ANY CUTTING, FITTING, PATCHING AND MATCHING OF HIS NEW WORK TO EXISTING WORK WHERE APPLICABLE AND INDICATED IN THE DRAWINGS. NO CONTRACTOR SHALL ENDANGER ANY WORK OF ANY OTHER CONTRACTOR BY EXCAVATING CUTTING OR OTHERWISE ALTERING ANY WORK OF ANY OTHER CONTRACTORS.
17. NOTE: ALL NEW FINISHES (WALL/CEILING/FLOOR) OTHER THAN PAINT, TO COMPLY WITH FBC 803 AND FBC 804: WALL AND CEILING FINISHES SHALL HAVE A FLAME SPREAD CLASSIFICATION.
    NOTE: INSULATION MATERIALS, FACINGS, VAPOR RETARDERS SHALL HAVE A FLAME-SPREAD CLASS OF NOT GREATER THAN 25 AND A SMOKE-DEVELOPED INDEX NOT GREATER THAN 450 PER ASTM E-84 OR UL 273 PER FBCR 302.10
18. NOTE: FIRE BLOCKING SHALL BE PROVIDED IN WALLS EVERY 8', AT INTERCONNECTIONS,
BETWEEN STAIR STRINGERS, AT OPENINGS AND AROUND DOOR POCKETS.
19. NOTE: ALL GLASS IN WET OR HAZARD AREAS TO BE CAT 2 SAFETY GLASS. ALL EXTERIOR DOORS AND WINDOWS TO BE CAT 2 SAFETY GLASS. GLAZING IN GUARDS AND RAILINGS, INCLUDING STRUCTURAL BALUSTER PANELS AND NONSTRUCTURAL IN-FILL PANELS, SHALL BE CAT 2 SAFETY GLAZING
20. NOTE: SHOWER PAN MEMBRANE MUST SLOPE A MINOF 1/4" PER FOOT TOWARD DRAIN WITH NO PENETRATION LESS THAN 1" ABOVE THRESHOLD FPC 2709.3
21. ALL SHOWERS SHALL HAVE NON-POROUS TILE ON ALL WALLS UP TO A MIN. OF 8'
22. FIBER CEMENT BOARD SHALL BE USED AS BACKERS FOR WALL TILES IN TUB AND SHOWER AREAS FBC 2023 8TH ED. R302
23. NOTE: 1/2" MAX THRESHOLD (FLOOR TRANSITIONS) TO COMPLY WITH FBC 1008.1.7

## TERMITE PROTECTION NOTES

TERMITE PROTECTION. TERMITE PROTECTION SHALL BE PROVIDED BY REGISTERED TERMITICIDES OR OTHER APPROVED METHODS OF TERMITE PROTECTION LABELED FOR USE AS A PREVENTATIVE TREATMENT TO NEW CONSTRUCTION.

IF SOIL TREATMENT IS USED FOR SUBTERRANEAN TERMITE PREVENTION, THE INITIAL CHEMICAL SOIL TREATMENT INSIDE THE FOUNDATION PERIMETER SHALL BE DONE AFTER ALL EXCAVATION, BACKFILLING AND COMPACTION IS COMPLETE.

IF SOIL TREATMENT IS USED FOR SUBTERRANEAN TERMITE PREVENTION, SOIL AREA DISTURBED AFTER INITIAL CHEMICAL SOIL TREATMENT SHALL BE RETREATED WITH A CHEMICAL SOIL TREATMENT, INCLUDING SPACES BOXED OR FORMED.

IF SOIL TREATMENT IS USED FOR SUBTERRANEAN TERMITE PREVENTION, SPACE IN CONCRETE FLOORS BOXED OUT OR FORMED FOR THE SUBSEQUENT INSTALLATION OF PLUMBING TRAPS, DRAINS OR ANY OTHER PURPOSE SHALL BE CREATED BY USING PLASTIC OR METAL PERMANENTLY PLACED FORMS OF SUFFICIENT DEPTH TO ELIMINATE ANY PLANNED SOIL DISTURBANCE AFTER INITIAL CHEMICAL SOIL TREATMENT.

IF SOIL TREATMENT IS USED FOR SUBTERRANEAN TERMITE PREVENTION, CHEMICALLY TREATED SOIL SHALL BE PROTECTED WITH A MINIMUM 6 MIL VAPOR RETARDER TO PROTECT AGAINST RAINFALL DILUTION. IF RAINFALL OCCURS BEFORE VAPOR RETARDER PLACEMENT, RETREATMENT IS REQUIRED. ANY WORK, INCLUDING PLACEMENT OF REINFORCING STEEL, DONE AFTER CHEMICAL TREATMENT UNTIL THE CONCRETE FLOOR IS POURED, SHALL BE DONE IN SUCH MANNER AS TO AVOID PENETRATING OR DISTUBING

TREATED SOIL.
IF SOIL TREATMENT IS USED FOR SUBTERRANEAN TERMITE PREVENTION, CONCRETE OVERPOUR OR MORTAR ACCUMULATED ALONG THE EXTERIOR FOUNDATION PERIMETER SHALL BE REMOVED PRIOR TO EXTERIOR CHEMICAL SOIL TREATMENT, TO ENHANCE VERTICAL PENETRATION OF THE CHEMICALS.

IF SOIL TREATMENT IS USED FOR SUBTERRANEAN TERMITE PREVENTION, CHEMICAL SOIL TREATMENTS SHALL ALSO BE APPLIED UNDER ALL EXTERIOR CONCRETE OR GRADE WITHIN 1 FOOT (305 MM) OF THE PRIMARY STRUCTURE SIDEWALLS. ALSO, A VERTICAL CHEMICAL BARRIER SHALL BE APPLIED PROMPTLY AFTER CONSTRUCTION IS COMPLETED, INCLUDING INITIAL LANDSCAPING AND IRRIGATION/SPRINKLER INSTALLATION. ANY SOIL DISTURBED AFTER THE CHEMICAL VERTICAL BARRIER IS APPLIED SHALL BE PROMPTLY RETREATED.

PROTECTION AGAINST SUBTERRANEAN TERMITES. THE RULES AND LAWS AS ESTABLISHED TERMITE PROTECTION. ALL BUILDINGS SHALL HAVE PRE-CONSTRUCTION TREATMENT BY THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES SHALL BE DEEMED AS APPROVED WITH RESPECT TO PRE-CONSTRUCTION SOIL TREATMENT FOR PROTECTION AGAINST SUBTERRANEAN TERMITES. A CERTIFICATE OF COMPLIANCE SHALL BE ISSUED TO THE BUILDING DEPARTMENT BY THE LICENSED PEST CONTROL COMPANY THAT CONTAINS THE FOLLOWING STATEMENT:

"THE BUILDING HAS RECEIVED A COMPLETE TREATMENT FOR THE PREVENTION OF SUBTERRANEAN TERMITES. TREATMENT IS IN ACCORDANCE WITH RULES AND LAWS ESTABLISHED BY THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES."

PENETRATION. PROTECTIVE SLEEVES AROUND METALLIC PIPING PENETRATING CONCRETE SLAB-ON-GRADE FLOORS SHALL NOT BE OF CELLULOSE-CONTAINING

MATERIALS AND SHALL RECEIVE APPLICATION OF A TERMITICIDE IN ANNULAR SPACE BETWEEN SLEEVE AND PIPE.

## SECURITY NOTES:

APPLICABLE ITEMS FBC
RE: INTRUSION AND BURGLARY SECURITY

1.) ALL LOCKS ON EXTERIOR DOORS SHALL BE CAPABLE OF RESISTING A FORCE OF 300 LB. APPLIED IN ANY MOVABLE DIRECTION AND IN ACCORDANCE WITH RESISTANCE STANDARDS SET FORTH IN METRO CODE 36C.

2.) ALL SINGLE EXTERIOR SWING DOORS SHALL HAVE A LOCK TO BE KEY OPERATED FROM EXTERIOR WITH A MIN. OF 6,000 POSSIBLE KEY CHANGES OR LOCKING AUXILIARY

3.) THE ACTIVE LEAF OF PAIRS OF EXTERIOR SWING DOORS SHALL HAVE SAME LOCKS AS REQUIRED FOR SINGLE EXTERIOR SWING DOORS. THE INACTIVE LEAF OF THESE PAIRS OF DOORS SHALL HAVE MULTIPLE POINT LOCKS WITH 3/8" MIN. THROW BOLTS WITH INSERTS.

4.) HINGES ON EXTERIOR OUT-SWINGING DOORS SHALL HAVE NON-REMOVABLE PINS.

5.) JAMBS OF ALL EXTERIOR OFFSET TYPE IN-SWING DOORS BE RABBETED, OR OF SIMILAR FABRICATION, TO PREVENT DEFEATING THE PURPOSE OF THE STRIKE AND THE INTEGRITY OF LOCKS AND LATCHES.

6. SINGLE, SWINGING, EXTERIOR DOORS, IF USED SHALL BE SOLID CORE OF NO LESS THAN 1 3/4" THICK.

7.) GLASS AND EXTERIOR DOORS SHALL COMPLY WITH THE AMERICAN NATIONAL STANDARDS INSTITUTE'S STANDARD 297.1.

8.) VISION PANELS IN EXTERIOR DOORS OTHER THAN GLAZING WITHIN 40" OF THE INSIDE LOCKING ACTIVATING DEVICE OF LOOSE AND SWINGING DOORS SHALL COMPLY WITH AMERICAN NATIONAL STANDARDS INSTITUTE'S- STANDARD 297.1.

9.) SLIDING GLASS DOORS AND WINDOWS SHALL BE INSTALLED AND CONSTRUCTED SO THAT NO PANEL CAN BE LIFTED FROM THE TRACKS WHEN IN THE LOCKED POSITION AND SO AS TO COMPLY WITH THE ARCHITECTURAL ALUMINUM MFG'S ASSOCIATION STANDARDS FOR FORCED ENTRY RESISTANCE, AAMA 1303.3.

10.) FRONT MAIN ENTRANCE DOORS SHALL BE PROVIDED WITH A DOOR SCOPE OR VISION PANEL.

11.) DOOR AND WINDOWS BY P.G.T. PRODUCTS (OR EQUAL)

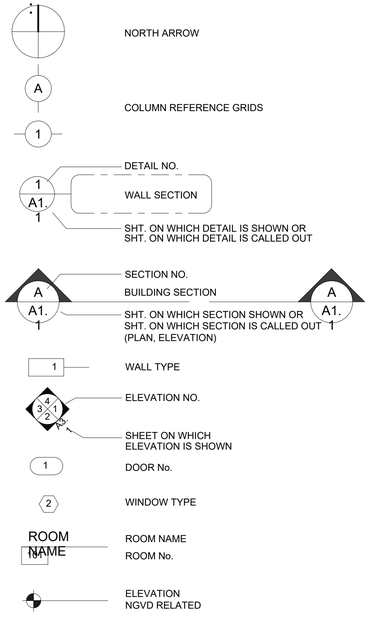
NOTE: CONTRACTOR SHALL SUBMIT AN UNDER-CONSTRUCTION ELEVATION CERTIFICATE UPON PLACEMENT OF THE LOWEST FLOOR AND PRIOR TO FURTHER VERTICAL CONSTRUCTION TO BUILDING DEPARTMENT FOR REVIEW AND APPROVAL. FBC B110.3.1.1

NOTE: OWNER OR CONTRACTOR SHALL SUBMIT A FINISHED CONSTRUCTION ELEVATION CERTIFICATE, PRIOR TO BUILDING FINAL INSPECTION. FBC B110.3.5.1

### ACCESORY, SECONDARY PERMITS NOTE:

CONTRACTOR TO PROVIDE SEPARATE PERMITS AND SHOP DRAWINGS FOR THE FOLLOWING ITEMS:
-GENERATOR AND GAS TANK
-PRE-FAB CHIMENY
-EXTERIOR DOORS AND WINDOWS
-RAILINGS AND FENCES
-POOL AND POOL DECK
-ALUM. TRELLIS
-DRIVEWAYS
-ROOF WATERPROOFING
-GLASS RAILINGS
-METAL STAIRS
-EXTERIOR LOUVERS
-SEPTIC TANK
-FOUNTAIN

## SYMBOLS




NOTE:
ALL SYMBOLS MAY NOT BE USED.

# RESIDENCE: GS JPD 10635 LLC

10635 SW 63 AV
MIAMI, FL

SEAL

giorgio balli
Digitally signed by giorgio balli
Date: 2024.12.02 18:09:32 -05'00'


BALLI-TRAUTMAN ARCHITECTS LLC -AA26002968

GIORGIO LUIGI BALLI -AR13951
DAVID SCOTT TRAUTMAN -AR15045


**REVISIONS**

| NO. | DESC | DATE |
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**SCHEMATIC SET**

BALLI - TRAUTMAN
ARCHITECTURE INTERIORS CONSTRUCTION

| | |
|---|---|
| JOB NUMBER: | |
| CHECKED BY: | GB |
| ISSUE DATE: | 11/11/2024 |
| SCALE: | AS NOTED |

SHEET TITLE

COVER

SHEET NUMBER

000


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1533 SUNSET DRIVE SUITE 101, CORAL GABLES, FL 33143



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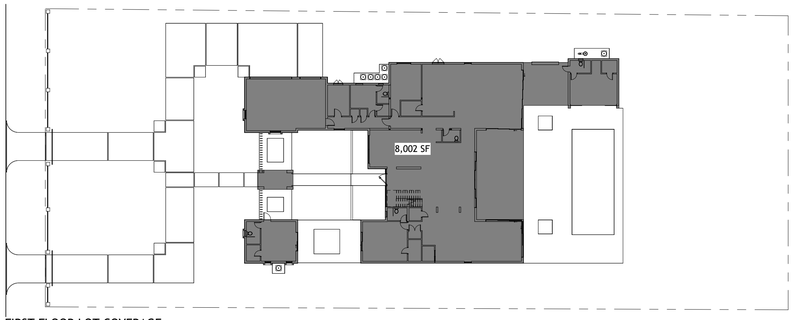
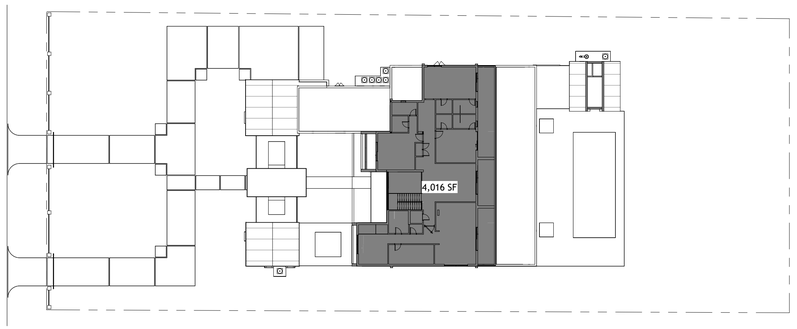
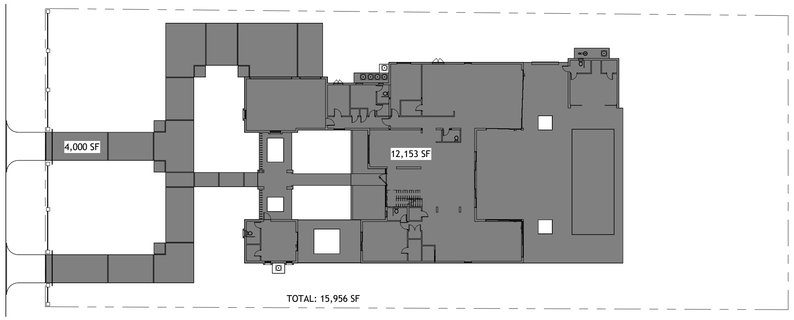



1 FIRST FLOOR LOT COVERAGE
1" = 30'-0"




2 LOT COVERAGE SECOND FLOOR
1" = 30'-0"




3 IMPERVIOUS LOT COVERAGE
1" = 30'-0"

4 TOTAL GREEN SPACE
1" = 30'-0"

## ZONING INFORMATION

| DESCRIPTION | | | REQUIRED | PROVIDED | REMARKS |
|---|---|---|---|---|---|
| ZONING DISTRICT | | EU-1 | | | |
| SETBACKS | FRONT | | 50.0' | 81'-1 1/2" | |
| | REAR | | 25.0' | 72'-3 1/2" | |
| | INT SIDE (N) | | 20.0' | 19'-0" | |
| | INT SIDE (S) | | 20.0' | 19'-0" | |
| BUILDING HEIGHT | | | 35.0' | 34.5' | |
| FLOOD ZONE | | | X | | |
| CROWN OF THE ROAD ELEV. | | | 10.8' | | |

## ZONING DATA

| DESCRIPTION | ALLOW / REQD. | AREA PROVIDED | % OF LOT AREA | REMARKS |
|---|---|---|---|---|
| LOT AREA | | 40,321 SF | **100%** | |
| LOT COVERAGE 1ST FL (MAX. 20% LOT AREA) | 8,065 SF | 8,002 SF | 19.8% | |
| LOT COVERAGE 2ND FL (MAX. 10% LOT AREA) | 4,032 SF | 4,016 SF | 9.9% | |
| GREEN AREA (MIN. 55% LOT AREA) | MIN: 22,177 SF | 24,147 SF | 60.2% | |
| IMPERVIOUS AREA (MAX. 45% LOT AREA) | 18,144 SF | 15,956 SF | 39.7% | |

## BUILDING DATA

| DESCRIPTION | | ALLOW / REQ. | AREA PROVIDED | % | REMARKS |
|---|---|---|---|---|---|
| | 1ST FL. A/C LIVING AREA | | 5,997 SF | | |
| | 2ND FL A/C LIVING AREA | | 3,165 SF | | |
| | | | **9,162 SF** | | |
| NON A/C | GARAGE | | 798 SF | | |
| | ENTRY PAVILLION | | 121 SF | | |
| | COVERED TERRACE | | 1,109 SF | | |
| | | | | | |
| | | | **11,419 SF** | | |

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# RESIDENCE: GS JPD 10635 LLC

10635 SW 63 AV
MIAMI, FL

SEAL

giorgio balli
Digitally signed by giorgio balli
Date: 2024.12.02 18:10:09 -05'00'

BALLI-TRAUTMAN ARCHITECTS LLC -AA26002968

GIORGIO LUIGI BALLI -AR13951
DAVID SCOTT TRAUTMAN -AR15045

**REVISIONS**

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**SCHEMATIC SET**

BALLI - TRAUTMAN
ARCHITECTURE INTERIORS CONSTRUCTION

JOB NUMBER:
CHECKED BY: GB
ISSUE DATE: 11/11/2024
SCALE: AS NOTED

SHEET TITLE

ZONING GRAPHICS

SHEET NUMBER

A100.1

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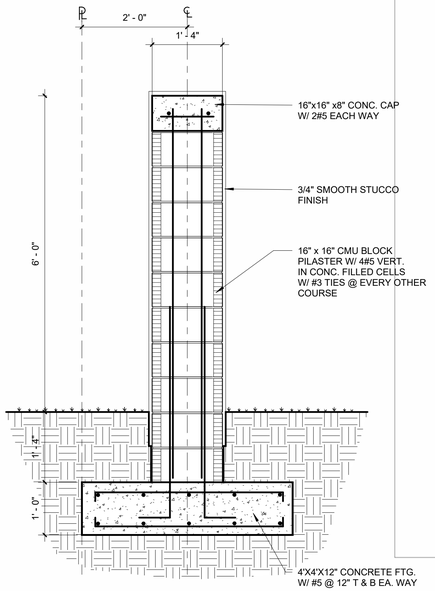
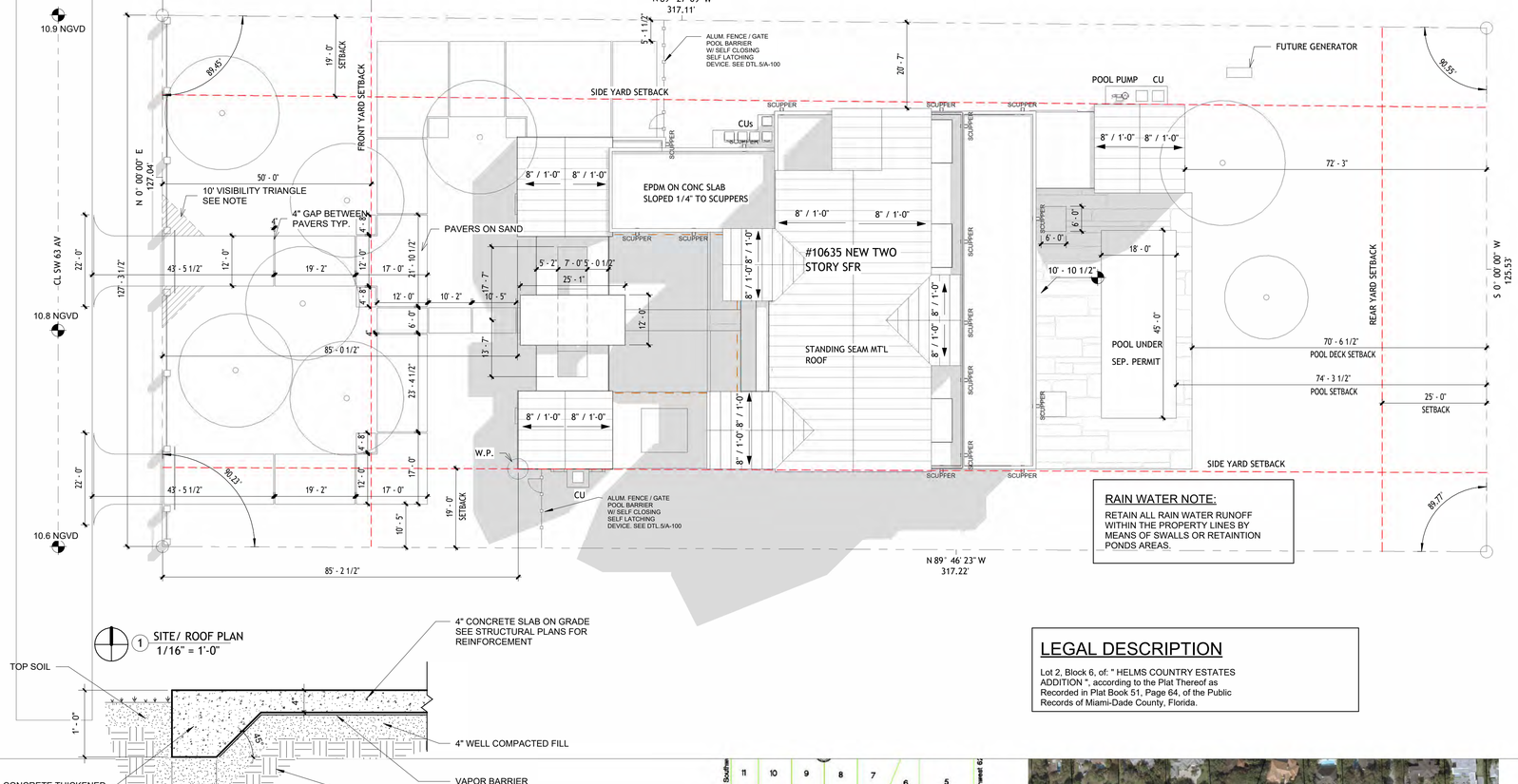
1533 SUNSET DRIVE SUITE 101, CORAL GABLES, FL 33143

**VISIBILITY TRIANGLE NOTE:**
"MATERIAL IMPEDIMENT TO VISIBILITY" CONSTRUED.
IT IS THE INTENT OF THESE REGULATIONS TO PROVIDE PROTECTION FROM TRAFFIC HAZARDS AT INTERSECTIONS FOR AUTOMOTIVE VEHICLES AND THEIR PASSENGERS, AND FOR CYCLISTS AND PEDESTRIANS, INCLUDING SMALL CHILDREN. GIVEN THIS INTENT, THE PHRASE "MATERIAL IMPEDIMENT TO VISIBILITY," AS USED HERE, IS TO BE CONSTRUED AS ANY MATERIAL OBSTRUCTION TO VISIBILITY WHICH WOULD RESULT IN CONCEALMENT OF A CHILD OVER TWO AND ONE-HALF (2 1/2) FEET IN HEIGHT APPROACHING AN INTERSECTION, OR WOULD CONCEAL AN APPROACHING AUTOMOTIVE VEHICLE OR CYCLIST FROM SUCH A CHILD. IN DETERMINATIONS AS TO WHETHER OR NOT THERE IS MATERIAL IMPEDIMENT TO VISIBILITY, THE SPEED, DIRECTION, AND DURATION OF MOVEMENT TO POINT OF POTENTIAL COLLISION OR CONTACT SHALL BE CONSIDERED.




6 PILAR DETAIL
3/4" = 1'-0"




1 SITE/ ROOF PLAN
1/16" = 1'-0"

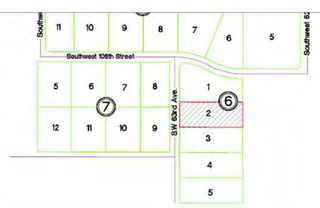
**RAIN WATER NOTE:**
RETAIN ALL RAIN WATER RUNOFF WITHIN THE PROPERTY LINES BY MEANS OF SWALLS OR RETAINTION PONDS AREAS.

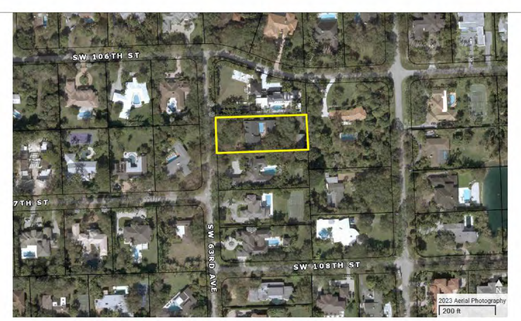
## LEGAL DESCRIPTION

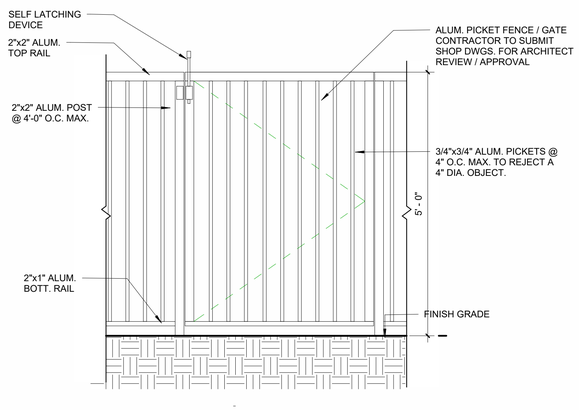
Lot 2, Block 6, of: " HELMS COUNTRY ESTATES ADDITION ", according to the Plat Thereof as Recorded in Plat Book 51, Page 64, of the Public Records of Miami-Dade County, Florida.



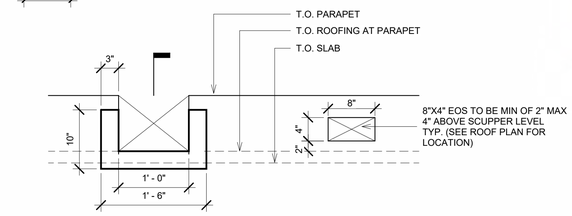

3 DRIVEWAY DETAIL
1" = 1'-0"

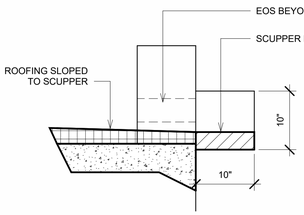


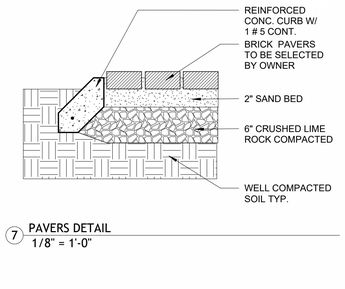




5 LATERAL FENCE/GATE
3/4" = 1'-0"




4 SCUPPER AND EOS DETAILS
1" = 1'-0"



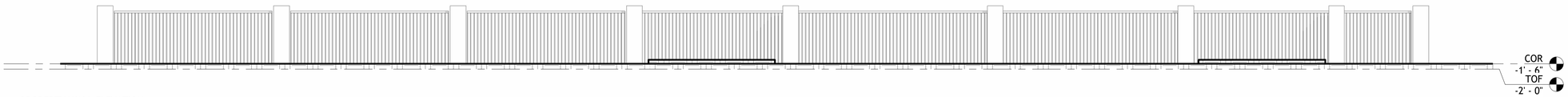

7 PAVERS DETAIL
1/8" = 1'-0"

**ACCESORY, SECONDARY PERMITS NOTE:**

CONTRACTOR TO PROVIDE SEPARATE PERMITS AND SHOP DRAWINGS FOR THE FOLLOWING ITEMS:
-GENERATOR AND GAS TANK
-PRE-FAB CHIMENY
-EXTERIOR DOORS AND WINDOWS
-RAILINGS AND FENCES
-POOL AND POOL DECK
-ALUM. TRELLIS
-DRIVEWAYS
-ROOF WATERPROOFING
-GLASS RAILINGS
-METAL STAIRS
-EXTERIOR LOUVERS
-SEPTIC TANK
-FOUNTAIN

THESE PLANS COMPLY TO THE BEST OF MY KNOWLEDGE WITH ALL APPLICABLE BUILDING AND ZONING CODES.

FENCE / GATE NOTE:
VERTICAL BARS ALONG PROPERTY LINES SHALL HAVE A CLEAR SPACING OF MINIMUN 3.5" WITH A TRASPARENCY REQUIREMENT FO 50%




2 PROPERTY WALL ELEVATION
3/16" = 1'-0"

# RESIDENCE: GS JPD 10635 LLC

10635 SW 63 AV
MIAMI, FL

SEAL

giorgio balli
Digitally signed by giorgio balli
Date: 2024.12.02 18:10:41 -05'00'


BALLI-TRAUTMAN ARCHITECTS LLC -AA26002968

GIORGIO LUIGI BALLI -AR13951
DAVID SCOTT TRAUTMAN -AR15045


**REVISIONS**

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**SCHEMATIC SET**

BALLI - TRAUTMAN
ARCHITECTURE INTERIORS CONSTRUCTION

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|---|---|
| JOB NUMBER: | |
| CHECKED BY: | GB |
| ISSUE DATE: | 11/11/2024 |
| SCALE: | AS NOTED |

SHEET TITLE

SITE PLAN

SHEET NUMBER

A100


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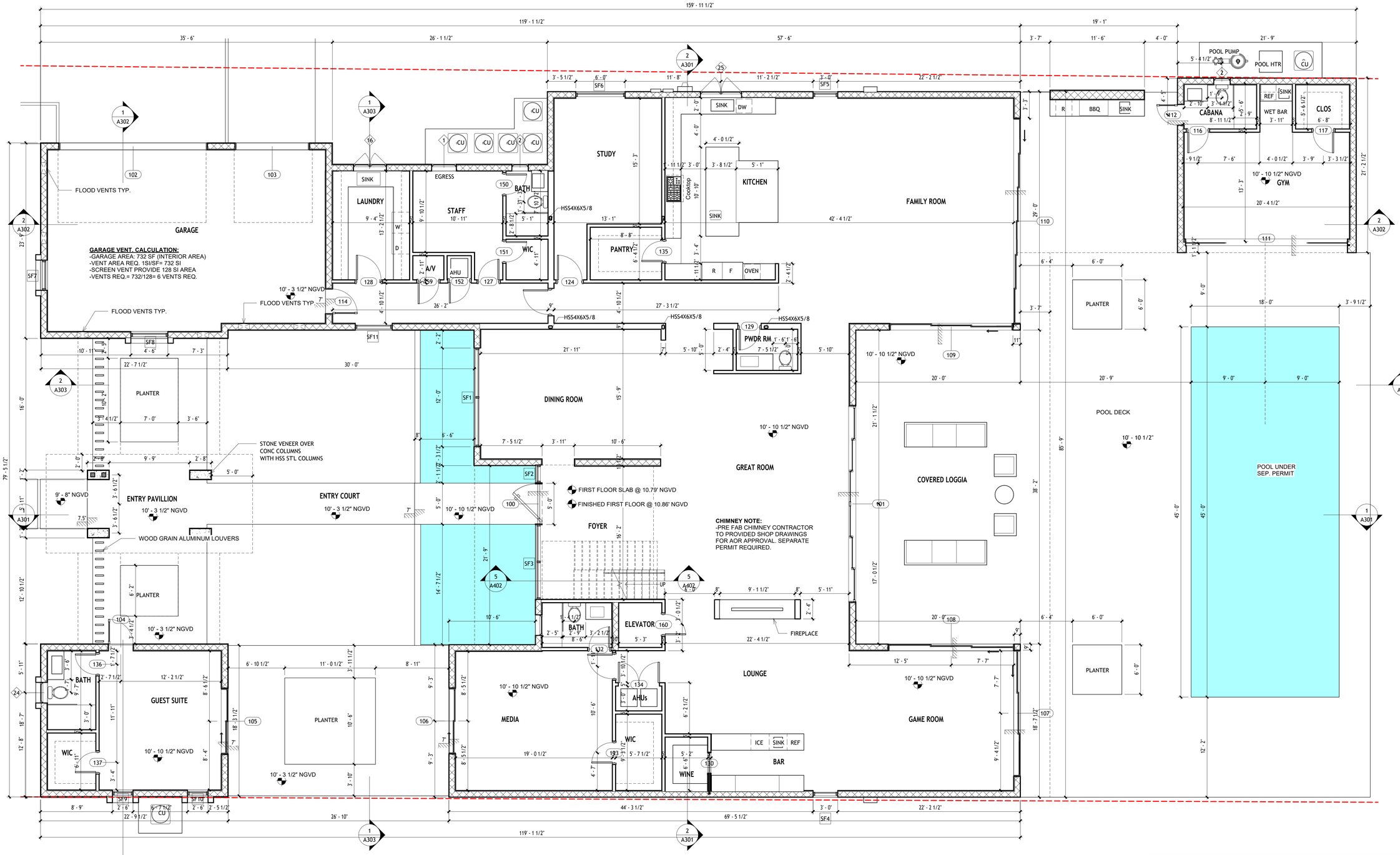


1 FIRST FLOOR PLAN
3/16" = 1'-0"

0 4' 8' 16'
0 2'
1/8" = 1'-0"

N

NOTE:
Interior finishes that emit low/no levels of volatile organic compounds (VOC) - Site-applied finishes, including, paints, stains and varnishes, shall meet specified volatile organic compound (VOC) emissions limits in accordance with GREENGUARD Environmental Institute GGPS.001 standard for building materials and finishes; or Green Seal® standards.

**EXTERIOR DOORS AND WINDOWS NOTE:**
-ALL EXTERIOR DOORS AND WINDOWS SHALL BE MIAMI DADE NOA IMPACT RESISTANT.
-CONTRACTOR TO PROVIDE SHOP DRAWINGS / NOAs FOR AOR/EOR APPROVAL.
-CONTRACTOR TO FIELD VERIFY MASONRY OPENING BEFORE PLACING ORDERS
-SEPARATE PERMIT REQUIRED FOR ALL EXTERIOR DOORS AND WINDOWS.
-ALL GLASS ON EXTERIOR DOORS AND WINDOWS ARE SHGC=0.41 U FACTOR=0.98
EXCEPT ON MASTER BEDROOM/BATH/SITTING SHALL BE SHGC=0.32 U FACTOR=0.49

## FLOOR PLAN NOTES

1. ANY CHANGE OF INTERIOR FINISHES BY OWNER/G.C. SHALL BE COORDINATE W/ THE ARCHITECT.
2. INTERIOR PARTITION OF 3 5/8"-5 5/8" METAL STUDS @ 24" 0.C. REFER TO FLOOR PLAN FOR DIM./LOCATION.
3. PROVIDE M.R./G.W.B. ON WET WALLS ONLY.
4. BATH DOORS SHALL BE OPERABLE FROM OUTSIDE IN EMERGENCY SITUATIONS.
5. CLOSET DOORS SHALL BE OPERABLE BY CHILDREN FROM INSIDE.
6. GLASS OR MIRRORS IMMEDIATELY SURROUNDING A BATHTUB OR SHOWER ENCLOSURE SHALL BE SAFETY GLAZING WHERE THE GLASS OR MIRRORS ARE LESS THAN 60 INCHES (1.5 M) ABOVE THE FLOOR OF THE TUB OR THE SHOWER.
7. SHOWER COMPARTMENTS SHALL HAVE FLOORS AND WALLS CONSTRUCTED OF SMOOTH, CORROSION RESISTANT AND NONABSORBENT WATER-RESISTANT MATERIALS TO A HEIGHT OF NOT LESS THAN 72 INCHES (6'-0") ABOVE THE COMPARTMENT FLOOR AT THE DRAIN.
8. ALL WINDOWS AT BEDROOMS SHALL BE "EGRESS" TYPE. U.O.N. THE EGRESS WINDOW SHALL BE OPERABLE FROM THE INSIDE WITHOUT THE USE OF TOOLS AND PROVIDING A CLEAR OPENING OF NOT LESS THAN 20" IN WIDTH, 24" IN HEIGHT, AND 5.7 SQ.FT. IN AREA. THE BOTTOM OF THE OPENING SHALL NOT BE MORE THAN 44" OFF THE FLOOR. THE MODE OF OPERATION DOES NOT REQUIRE THE USE OF A KEY, TOOL , SPECIAL KNOWLEDGE, OR EFFORT TO MAKE AVAILABLE THE REQUIRED CLEAR OPENING, AND NO PART OF THE MECHANISM SHALL BE PLACED HIGHER THAN 54" ABOVE THE FINISHED FLOOR.

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A101.pdf
Examiner Date Time Stamp Trade Stamp Name
VALDIVIESO, JOSE 6/24/2025 10:44:38 AM HRS Approved

# RESIDENCE: GS JPD 10635 LLC

10635 SW 63 AV
MIAMI, FL

SEAL

giorgio balli
Digitally signed by giorgio balli
Date: 2024.12.02 18:11:10 -05'00'

BALLI-TRAUTMAN ARCHITECTS LLC -AA26002968

GIORGIO LUIGI BALLI -AR13951
DAVID SCOTT TRAUTMAN -AR15045

**REVISIONS**

| NO. | DESC | DATE |
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**SCHEMATIC SET**

BALLI - TRAUTMAN
ARCHITECTURE INTERIORS CONSTRUCTION

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| JOB NUMBER: | |
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SHEET TITLE

FIRST FLOOR PLAN

SHEET NUMBER

A101

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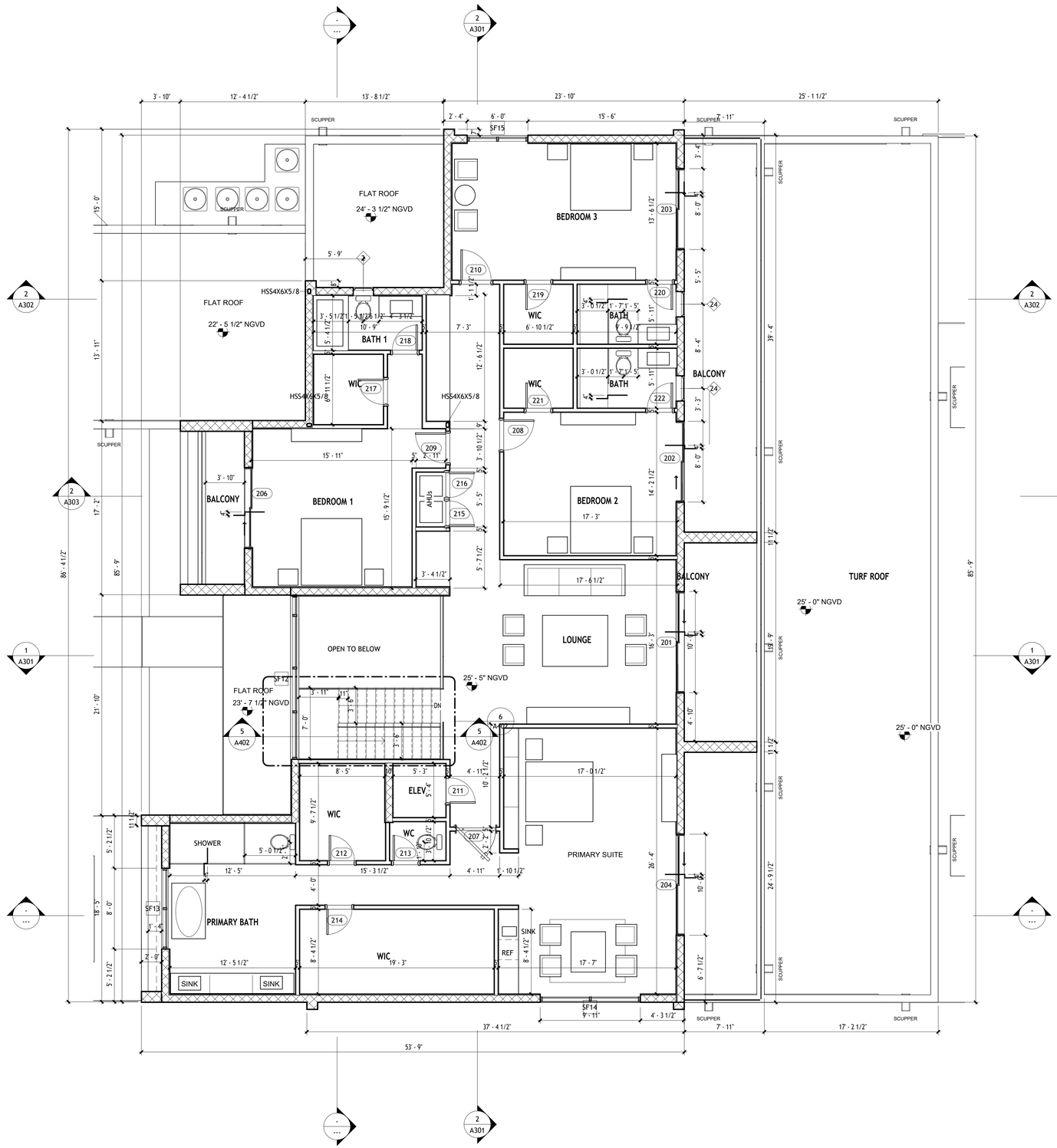
1533 SUNSET DRIVE SUITE 101, CORAL GABLES, FL 33143

**EXTERIOR DOORS AND WINDOWS NOTE:**
-ALL EXTERIOR DOORS AND WINDOWS SHALL BE MIAMI DADE NOA IMPACT RESISTANT.
-CONTRACTOR TO PROVIDE SHOP DRAWINGS / NOAs FOR AOR/EOR APPROVAL.
-CONTRACTOR TO FIELD VERIFY MASONRY OPENING BEFORE PLACING ORDERS
-SEPARATE PERMIT REQUIRED FOR ALL EXTERIOR DOORS AND WINDOWS.
-ALL GLASS ON EXTERIOR DOORS AND WINDOWS ARE SHGC=0.41 U FACTOR=0.98
EXCEPT ON MASTER BEDROOM/BATH/SITTING SHALL BE SHGC=0.32 U FACTOR=0.49




1 SECOND FLOOR PLAN
3/16" = 1'-0"

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MIAMI, FL

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GIORGIO LUIGI BALLI -AR13951
DAVID SCOTT TRAUTMAN -AR15045

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**SCHEMATIC SET**

BALLI - TRAUTMAN
ARCHITECTURE INTERIORS CONSTRUCTION

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SHEET TITLE

SECOND FLOOR PLAN

SHEET NUMBER

A102

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1533 SUNSET DRIVE SUITE 101, CORAL GABLES, FL 33143

1 FIRST FLOOR RCP
3/16" = 1'-0"

**RESIDENCE: GS JPD 10635 LLC**

10635 SW 63 AV
MIAMI, FL

SEAL

giorgio balli

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ARCHITECTURE INTERIORS CONSTRUCTION

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SHEET TITLE

FIRST FLOOR RCP

SHEET NUMBER

A103


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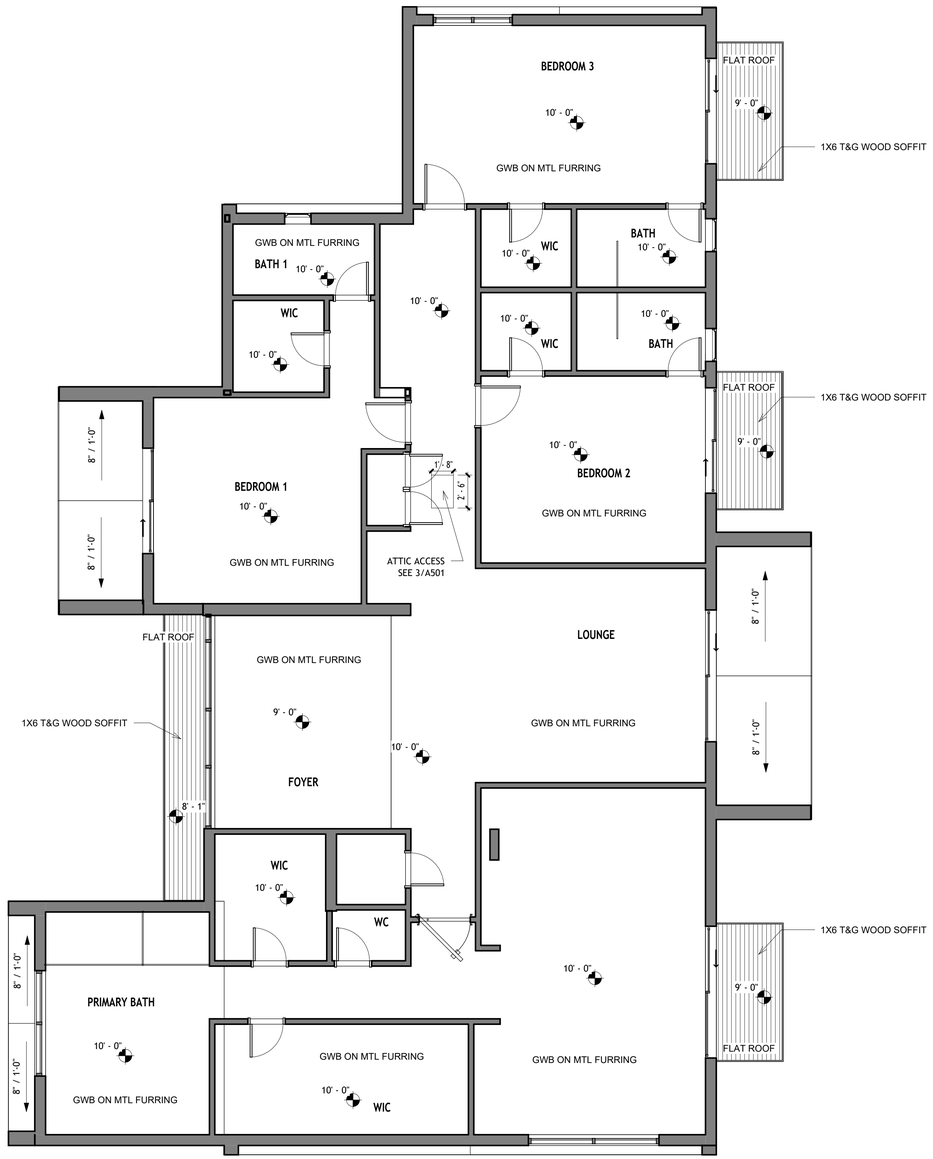


1 SECOND FLOOR RCP
3/16" = 1'-0"

# RESIDENCE: GS JPD 10635 LLC

10635 SW 63 AV
MIAMI, FL

SEAL

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GIORGIO LUIGI BALLI -AR13951
DAVID SCOTT TRAUTMAN -AR15045


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**SCHEMATIC SET**

BALLI - TRAUTMAN
ARCHITECTURE INTERIORS CONSTRUCTION

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SHEET TITLE

## SECOND FLOOR RCP

SHEET NUMBER

## A104


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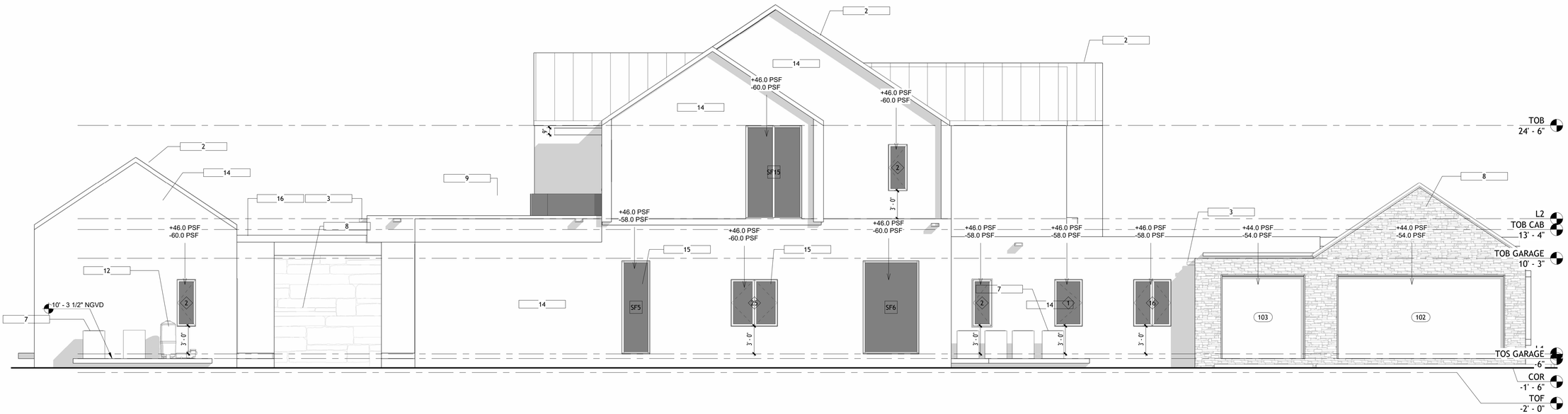
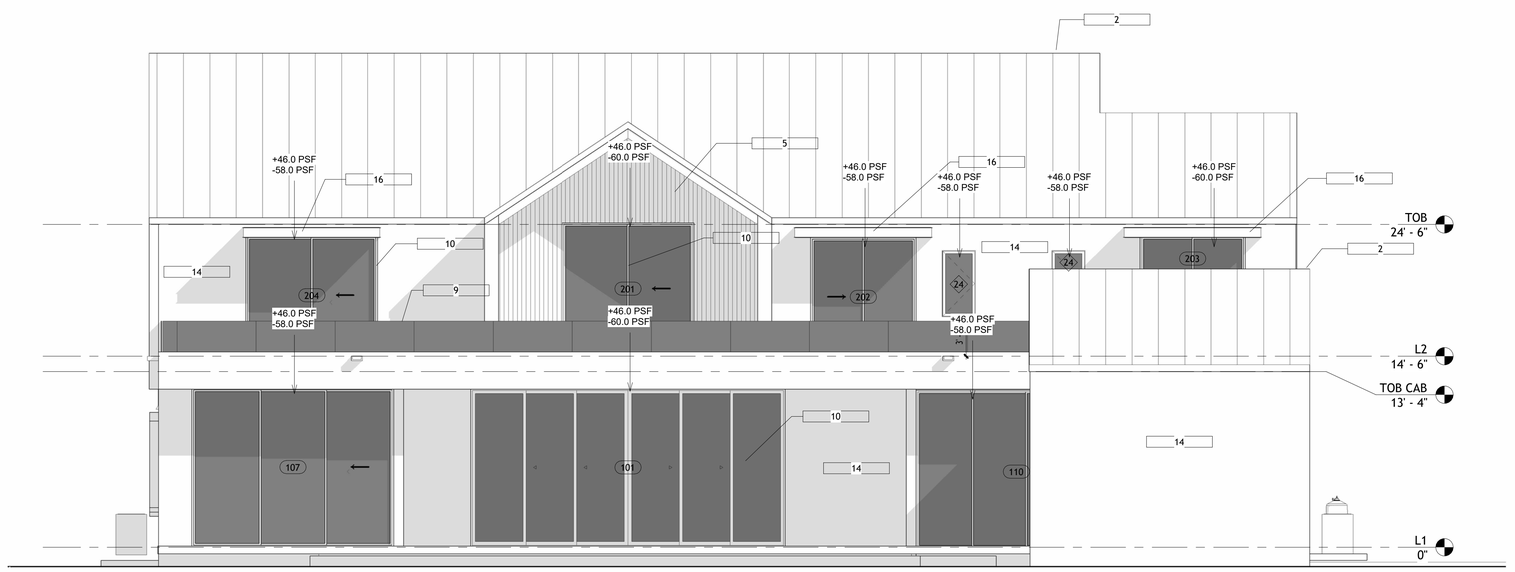



1 North Architectural Building Elevation
3/16" = 1'-0"

| Keynote Legend | |
|---|---|
| Key Value | Keynote Text |
| 1 | DECORATIVE STEEL CHANNEL HEADER |
| 2 | STANDING SEAM METAL ROOF |
| 3 | GALV. METAL ROOF SCUPPER |
| 4 | SOLID WOOD PIVOT DOOR. CONTRACTOR TO PROVIDE NOA |
| 5 | WOOD VERTICAL SIDING |
| 7 | A/C EQUIPMENT OVER CONCRETE SLAB |
| 8 | STONE VENEER FINISH |
| 9 | 42 INCH HIGH GLASS RAILING |
| 10 | IMPACT RESISTANT SLIDING ALUM./GLASS DOORS |
| 12 | POOL EQUIPMENT OVER CONCRETE SLAB |
| 14 | SMOOTH STUCCO FINISH |
| 15 | IMPACT RESISTANT ALUMN./GLASS WINDOWS |
| 16 | STEEL CHANNEL FASCIA AROUND CONCRETE EYEBROW |




2 East Architectural Building Elevation
3/16" = 1'-0"

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BALLI-TRAUTMAN ARCHITECTS LLC -AA26002968

GIORGIO LUIGI BALLI -AR13951
DAVID SCOTT TRAUTMAN -AR15045


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**SCHEMATIC SET**

BALLI - TRAUTMAN
ARCHITECTURE INTERIORS CONSTRUCTION

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SHEET TITLE

NORTH AND EAST ELEVATIONS

SHEET NUMBER

A201


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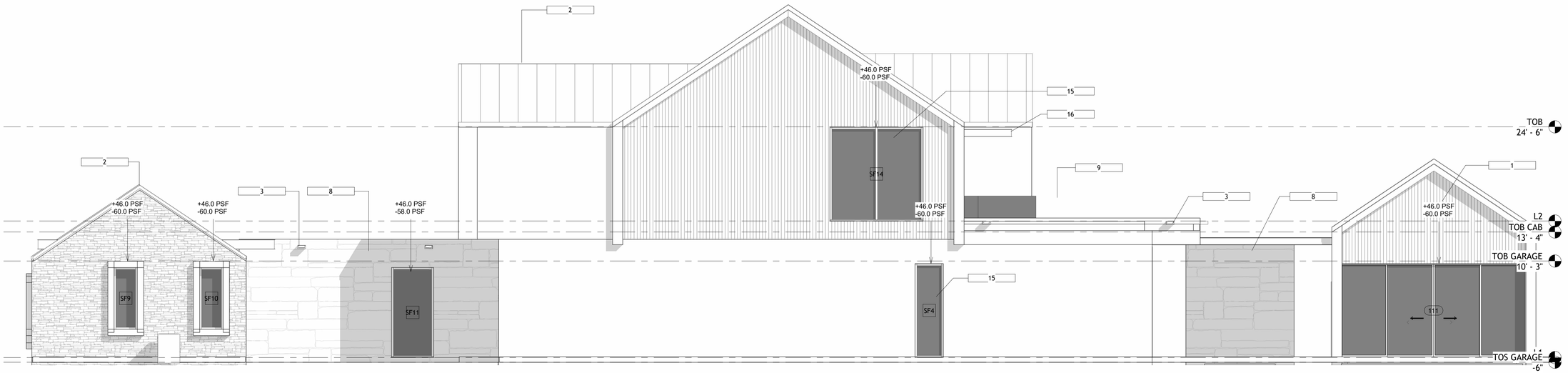


1 South Architectural Building Elevation
3/16" = 1'-0"

| Keynote Legend | |
|---|---|
| Key Value | Keynote Text |
| 1 | DECORATIVE STEEL CHANNEL HEADER |
| 2 | STANDING SEAM METAL ROOF |
| 3 | GALV. METAL ROOF SCUPPER |
| 4 | SOLID WOOD PIVOT DOOR. CONTRACTOR TO PROVIDE NOA |
| 5 | WOOD VERTICAL SIDING |
| 7 | A/C EQUIPMENT OVER CONCRETE SLAB |
| 8 | STONE VENEER FINISH |
| 9 | 42 INCH HIGH GLASS RAILING |
| 10 | IMPACT RESISTANT SLIDING ALUM./GLASS DOORS |
| 12 | POOL EQUIPMENT OVER CONCRETE SLAB |
| 14 | SMOOTH STUCCO FINISH |
| 15 | IMPACT RESISTANT ALUMN./GLASS WINDOWS |
| 16 | STEEL CHANNEL FASCIA AROUND CONCRETE EYEBROW |

2 West Architectural Building Elevation
3/16" = 1'-0"

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# RESIDENCE: GS JPD 10635 LLC

10635 SW 63 AV
MIAMI, FL

SEAL

giorgio balli

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Date: 2024.12.02 18:13:31 -05'00'


BALLI-TRAUTMAN ARCHITECTS LLC -AA26002968

GIORGIO LUIGI BALLI -AR13951
DAVID SCOTT TRAUTMAN -AR15045


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**SCHEMATIC SET**

BALLI - TRAUTMAN
ARCHITECTURE INTERIORS CONSTRUCTION

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SHEET TITLE

SOUTH AND WEST ELEVATIONS

SHEET NUMBER

A202


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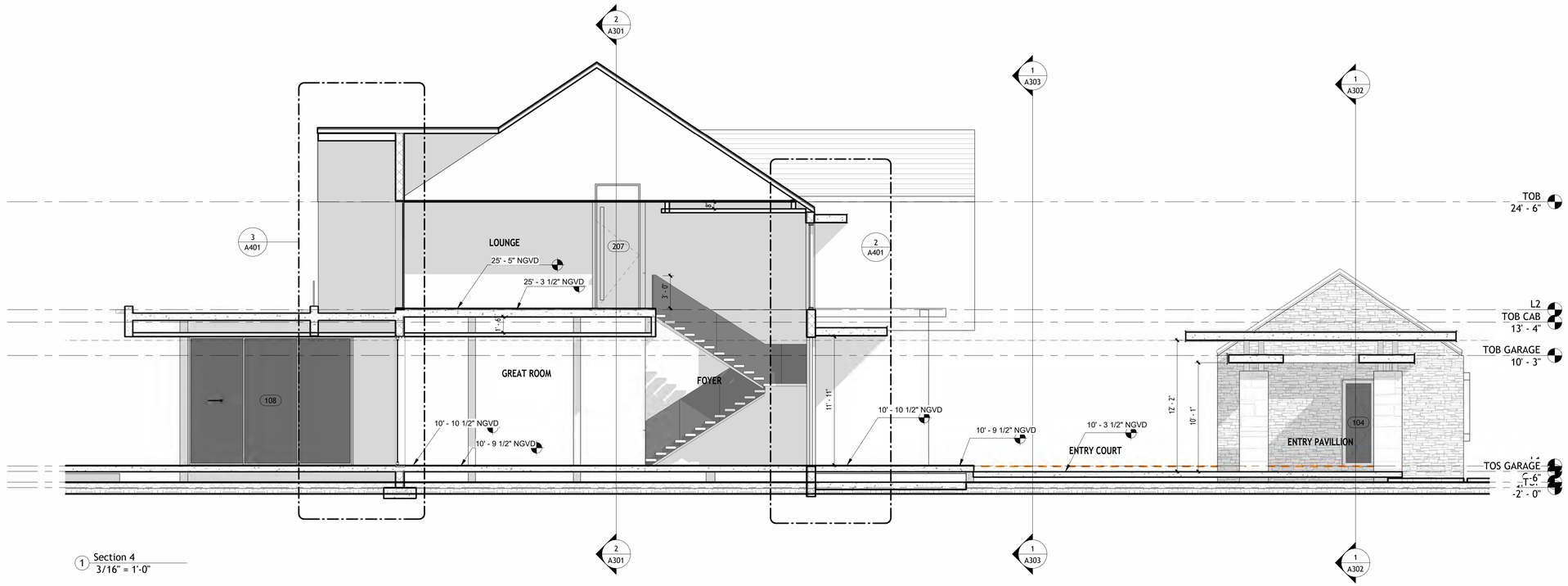
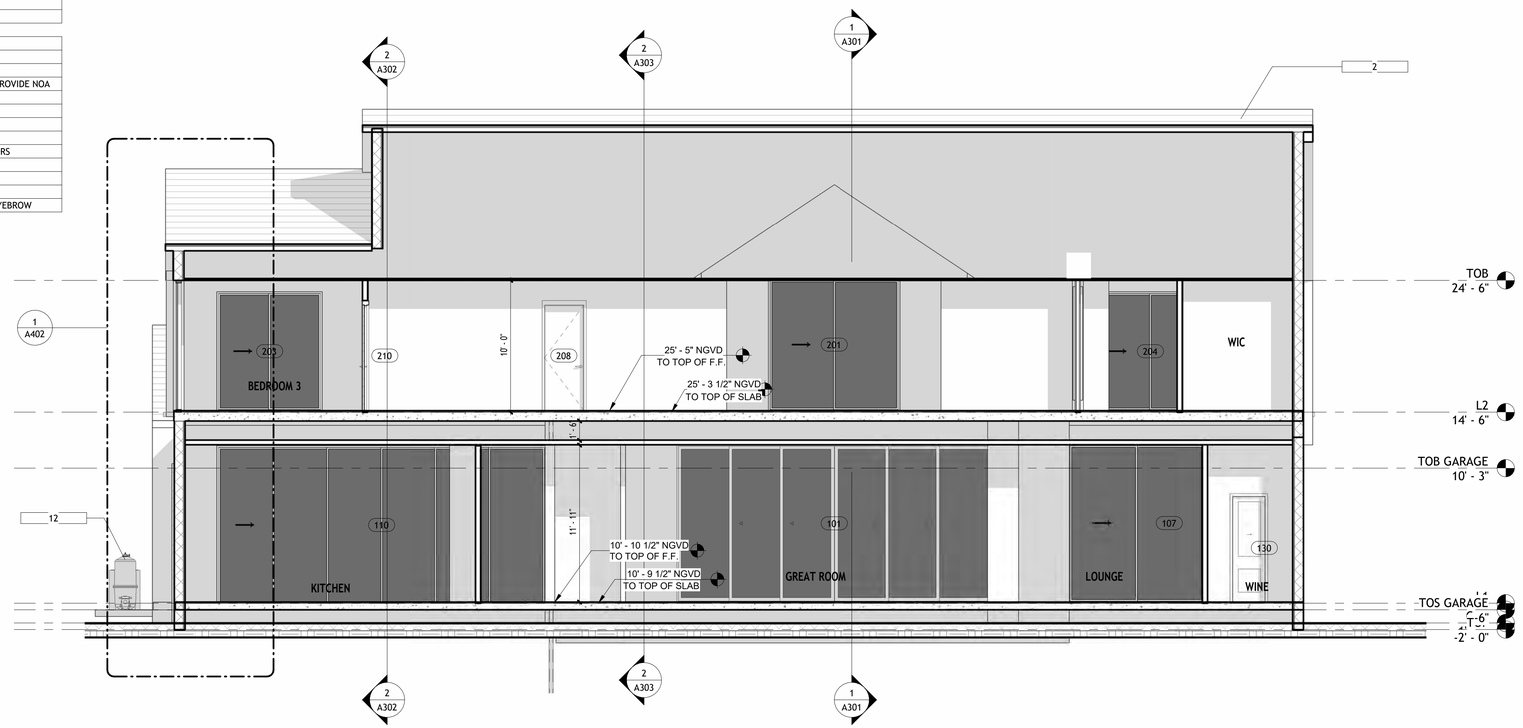



1 Section 4
3/16" = 1'-0"

| Keynote Legend | |
|---|---|
| Key Value | Keynote Text |
| 1 | DECORATIVE STEEL CHANNEL HEADER |
| 2 | STANDING SEAM METAL ROOF |
| 3 | GALV. METAL ROOF SCUPPER |
| 4 | SOLID WOOD PIVOT DOOR. CONTRACTOR TO PROVIDE NOA |
| 5 | WOOD VERTICAL SIDING |
| 7 | A/C EQUIPMENT OVER CONCRETE SLAB |
| 8 | STONE VENEER FINISH |
| 9 | 42 INCH HIGH GLASS RAILING |
| 10 | IMPACT RESISTANT SLIDING ALUM./GLASS DOORS |
| 12 | POOL EQUIPMENT OVER CONCRETE SLAB |
| 14 | SMOOTH STUCCO FINISH |
| 15 | IMPACT RESISTANT ALUMN./GLASS WINDOWS |
| 16 | STEEL CHANNEL FASCIA AROUND CONCRETE EYEBROW |




2 Section 8
3/16" = 1'-0"

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10635 SW 63 AV
MIAMI, FL

SEAL

giorgio balli

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BALLI-TRAUTMAN ARCHITECTS LLC -AA26002968

GIORGIO LUIGI BALLI -AR13951
DAVID SCOTT TRAUTMAN -AR15045

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**SCHEMATIC SET**

BALLI - TRAUTMAN
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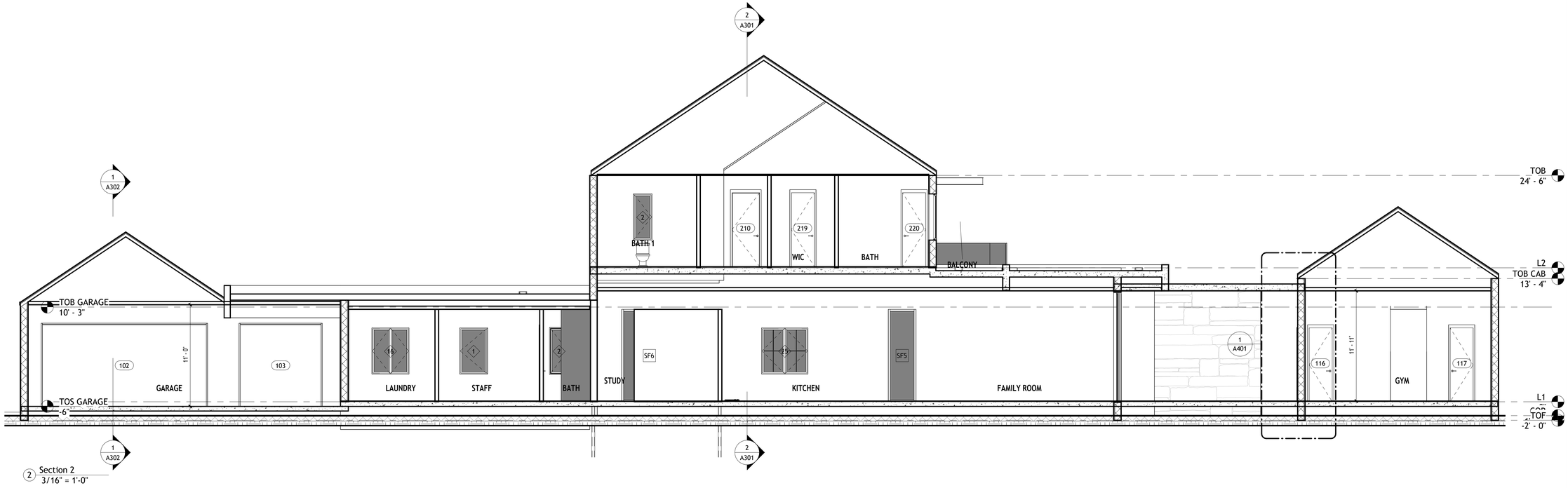


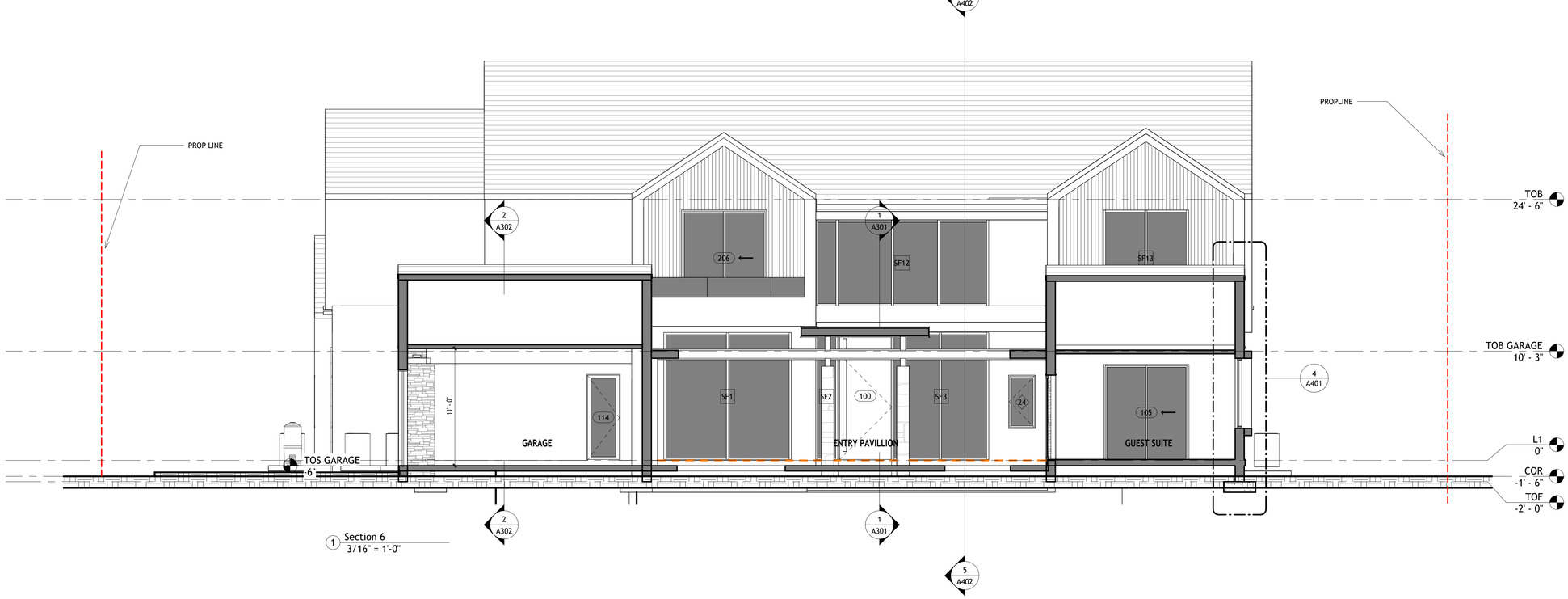


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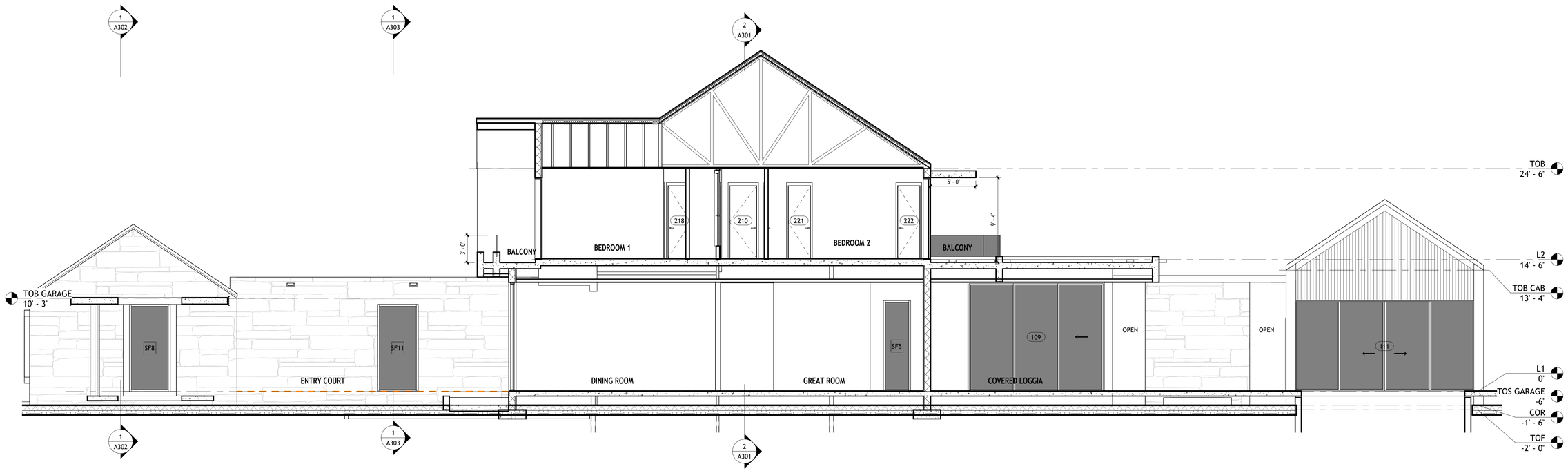
1 Section 5
3/16" = 1'-0"




2 Section 1
3/16" = 1'-0"

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DAVID SCOTT TRAUTMAN -AR15045


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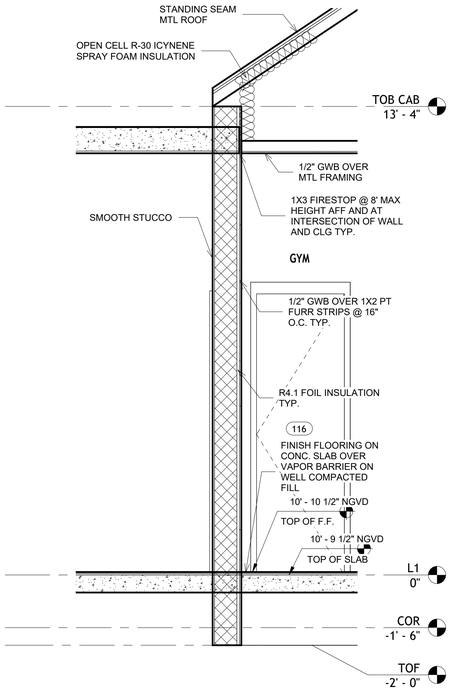
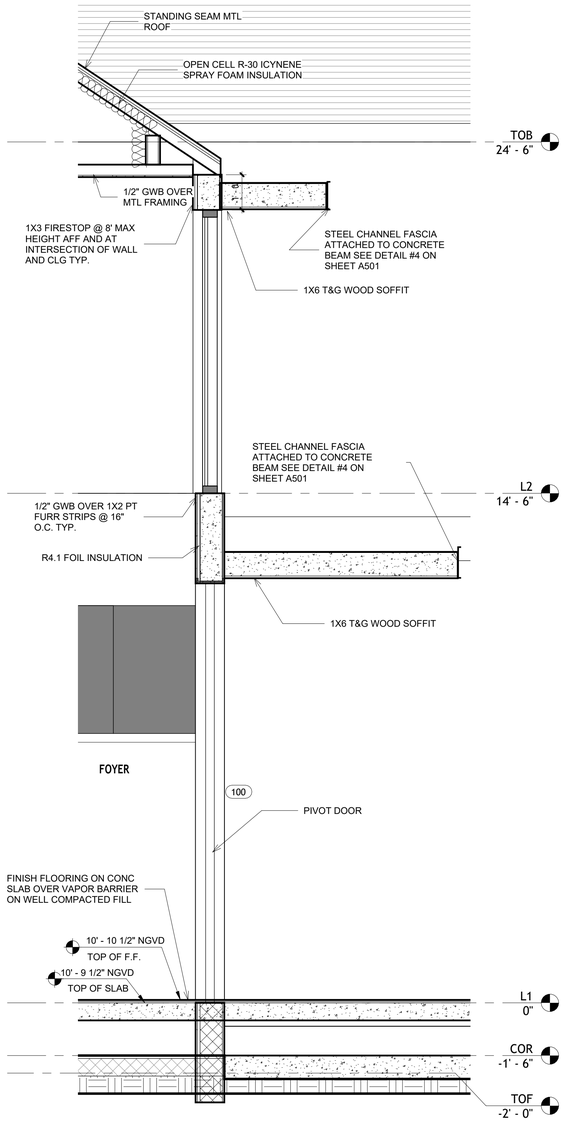
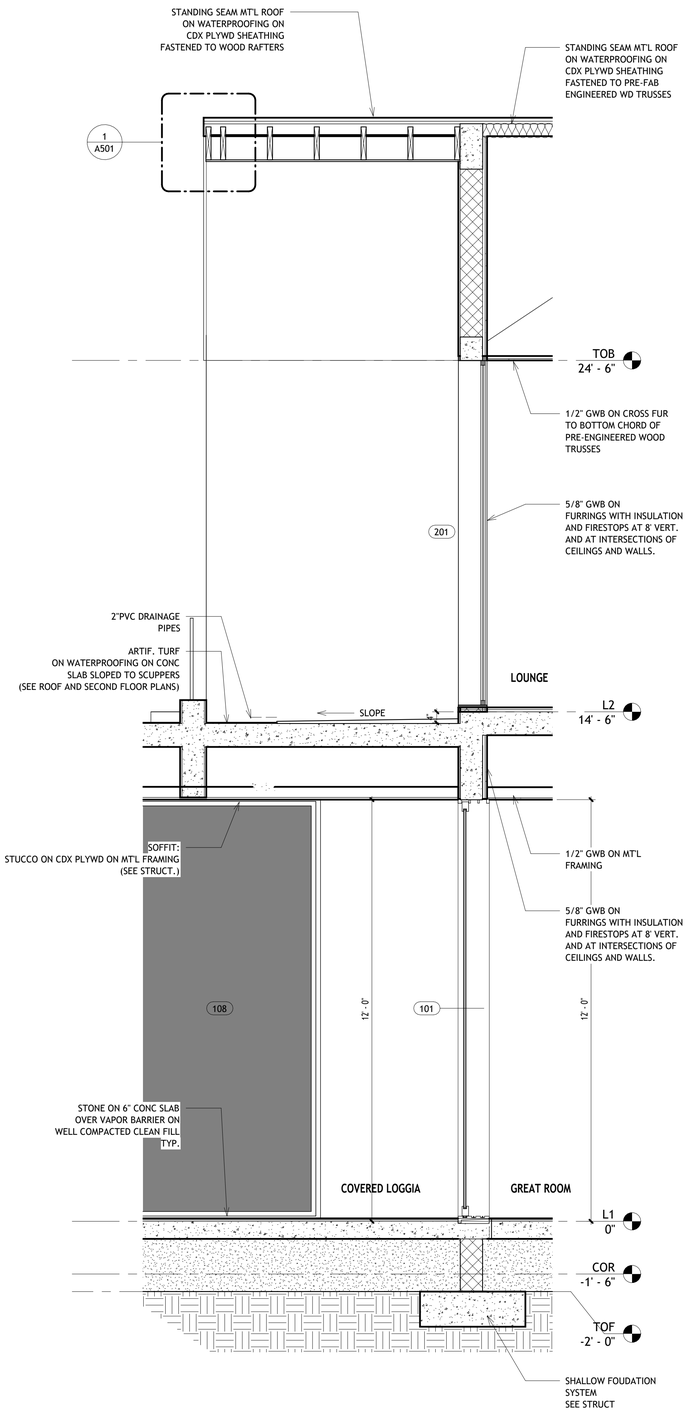


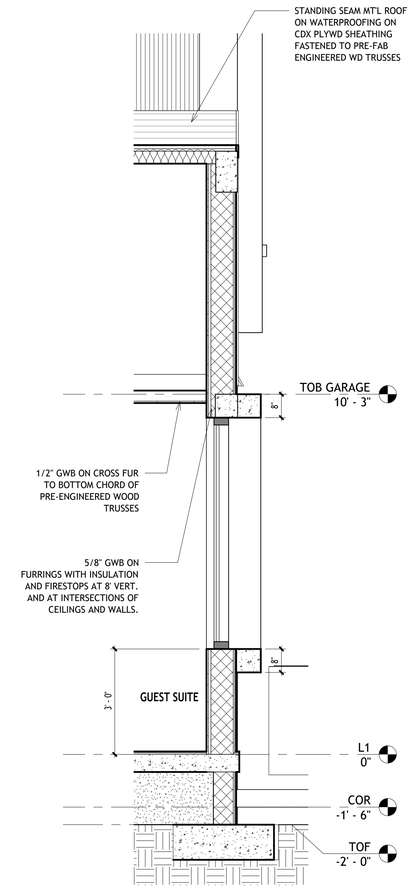

1 WALL SECTION 1
1/2" = 1'-0"




2 WALL SECTION 2
1/2" = 1'-0"




3 WALL SECTION 3
1/2" = 1'-0"




4 WALL SECTION 4
1/2" = 1'-0"

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SHEET TITLE

WALL SECTIONS

SHEET NUMBER

A401


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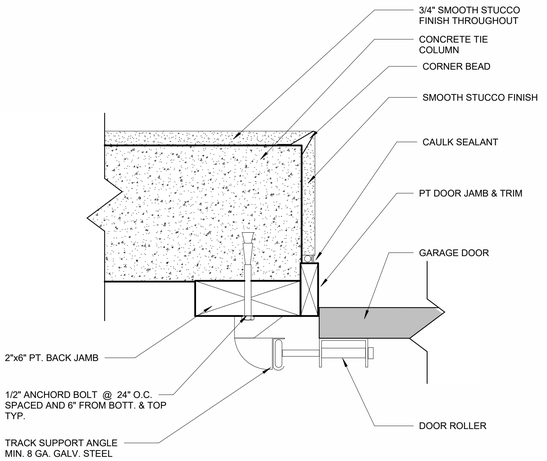
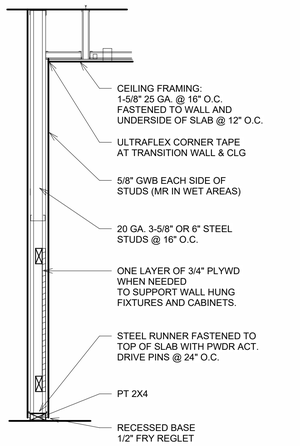



3 GARAGE DOOR JAM DETAIL
3" = 1'-0"




NOTE: ALL NEW FINISHED (WALL/CEILING/FLOOR) OTHER THAN PAINT, TO COMPLY WITH FBC 803 AND FBC 804: WALL AND CEILING FINISHED SHALL HAVE A FLAME SPREAD CLASSIFICATION.

NOTE: FIRE BLOCKING SHALL BE PROVIDED IN WALLS EVERY 8', AT INTERCONNECTIONS, BETWEEN STAIR STRINGERS, AT OPENINGS AND AROUND DOOR POCKETS

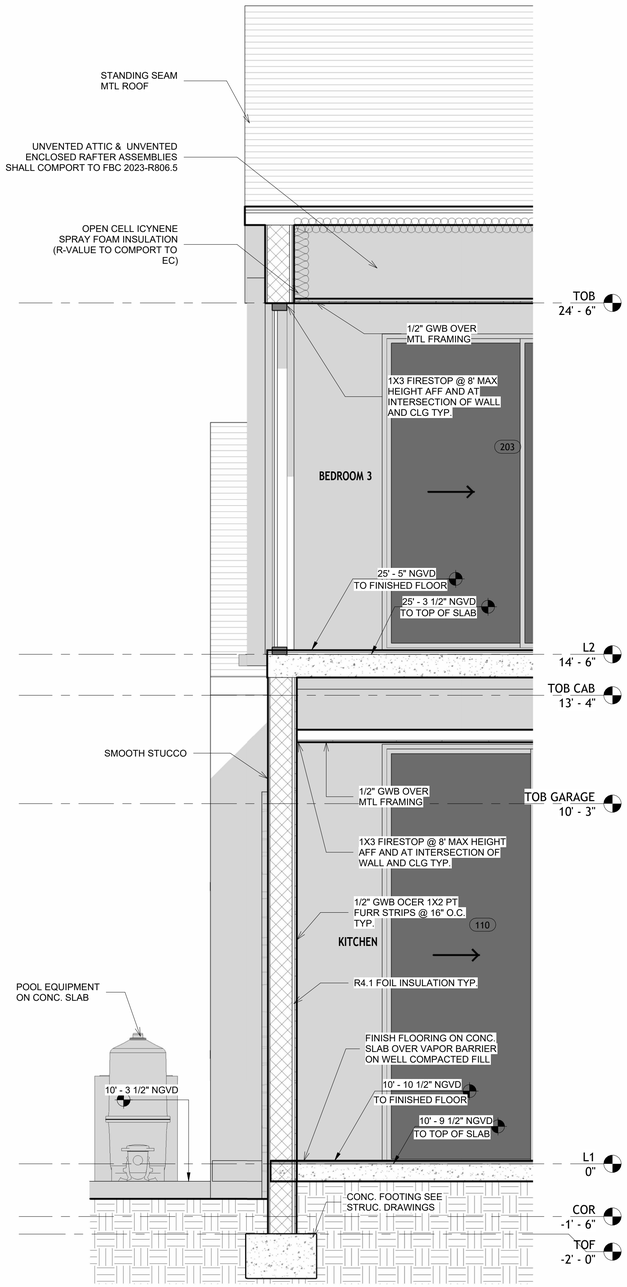
NOTE: INSULATION MATERIALS, FACINGS, VAPOR RETARDERS SHALL HAVE A FLAME-SPREAD CLASS OF NOT GREATER THAN 25 AND A SMOKE-DEVELOPED INDEX NOT GREATER THAN 450 PER ASTM E-84 OR UL 273 PER FBCR 302.10

NOTE: THERE ARE NO LOAD BEARING PARTITIONS

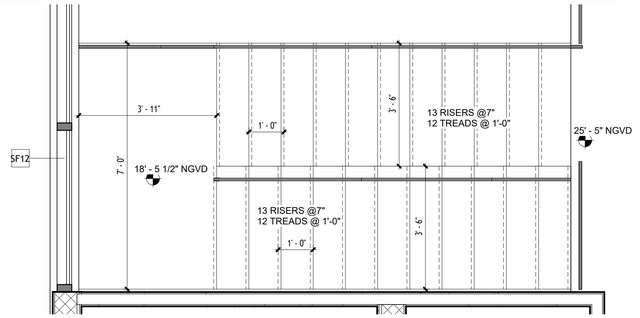
NOTE: ALL BATHTUBS, SHOWER FLOORS AND WALLS ABOVE BATHTUBS WITH INSTALLED SHOWER HEADS AND IN SHOWER COMPARTMENTS SHALL BE FINISHED WITH DURROCK TO A HEIGHT OF NOT LESS THAN 72" A.F.F. AS PER FBC '04 R307.2
-SEE NOTE 15 ON A100 FOR FLAME SPREAD

NOTE: FLAME SPREAD FOR WALL CEILING FINISHES MAX. 200, SMOKE DEVELOPED MAX. 450 FBC 14 R302

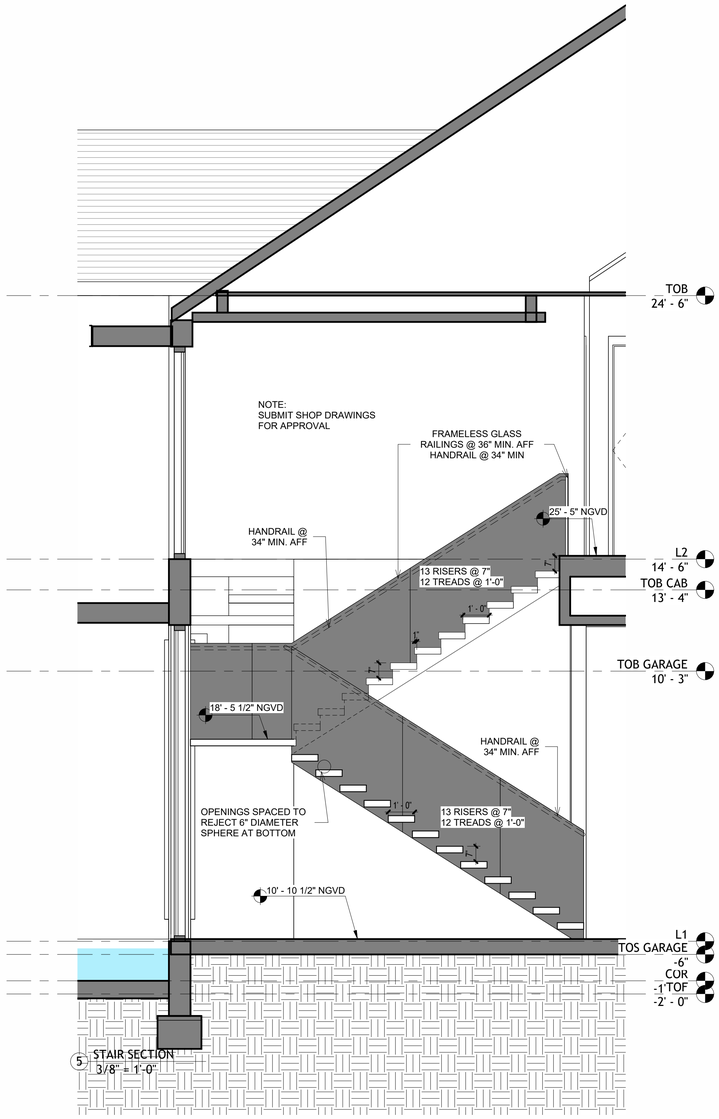
2 TYP PARTITION SECTION
3/4" = 1'-0"




1 WALL SECTION
1/2" = 1'-0"




6 STAIR PLAN
1/2" = 1'-0"




5 STAIR SECTION
3/8" = 1'-0"

# RESIDENCE: GS JPD 10635 LLC

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WALL SECTIONS

SHEET NUMBER

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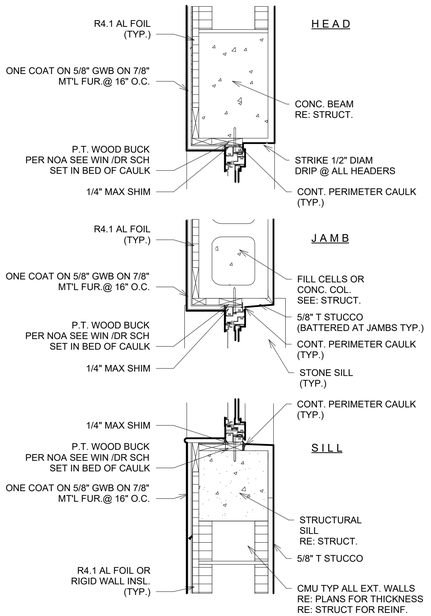



6 WINDOW AND DOOR DETAILS
1 1/2" = 1'-0"

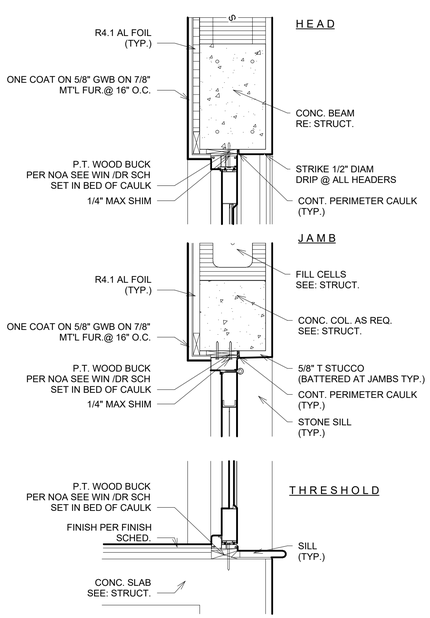



**TABLE 803.5 INTERIOR WALL AND CEILING FINISH REQUIREMENTS BY OCCUPANCY[k]**

| GROUP | SPRINKLERED[i] | | | NONSPRINKLERED | | |
|---|---|---|---|---|---|---|
| | Exit enclosures and exit passageways[a,b] | Corridors | Rooms and enclosed spaces[c] | Exit enclosures and exit passageways[a,b] | Corridors | Rooms and enclosed spaces[c] |
| A-1 & A-2 | B | B | C | A | A[g] | B[g] |
| A-3[f], A-4, A-5 | B | B | C | A | A[g] | C |
| B, E, M, R-1, R-4 | B | C | C | A | B | C |
| F | C | C | C | B | C | C |
| H | B | B | C[g] | A | A | B |
| I-1 | B | C | C | A | B | B |
| I-2 | B | B | B[h,l] | A | A | B |
| I-3 | A | A[j] | C | A | A | B |
| I-4 | B | B | B[h,l] | A | A | B |
| R-2 | C | C | C | B | B | C |
| R-3 | C | C | C | C | C | C |
| S | C | C | C | B | B | C |
| U | No restrictions | | | No restrictions | | |

For SI: 1 inch = 25.4 mm, 1 square foot = 0.0929 $m^2$.

a. Class C interior finish materials shall be permitted for wainscotting or paneling of not more than 1,000 square feet of applied surface area in the grade lobby where applied directly to a noncombustible base or over furring strips applied to a noncombustible base and fireblocked as required by Section 803.4.1.

b. In exit enclosures of buildings less than three stories in height of other than Group I-3, Class B interior finish for nonsprinklered buildings and Class C interior finish for sprinklered buildings shall be permitted.

c. Requirements for rooms and enclosed spaces shall be based upon spaces enclosed by partitions. Where a fire-resistance rating is required for structural elements, the enclosing partitions shall extend from the floor to the ceiling. Partitions that do not comply with this shall be considered enclosing spaces and the rooms or spaces on both sides shall be considered one. In determining the applicable requirements for rooms and enclosed spaces, the specific occupancy thereof shall be the governing factor regardless of the group classification of the building or structure.

d. Lobby areas in Group A-1, A-2 and A-3 occupancies shall not be less than Class B materials.

e. Class C interior finish materials shall be permitted in places of assembly with an occupant load of 300 persons or less.

f. For places of religious worship, wood used for ornamental purposes, trusses, paneling or chancel furnishing shall be permitted.

g. Class B material is required where the building exceeds two stories.

h. Class C interior finish materials shall be permitted in administrative spaces.

i. Class C interior finish materials shall be permitted in rooms with a capacity of four persons or less.

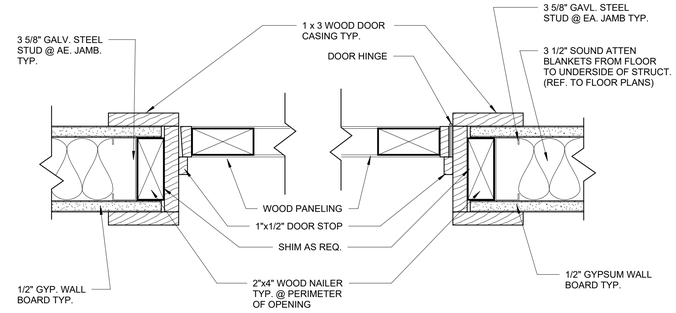
j. Class B materials shall be permitted as wainscotting extending not more than 48 inches above the finished floor in corridors.

k. Finish materials as provided for in other sections of this code.

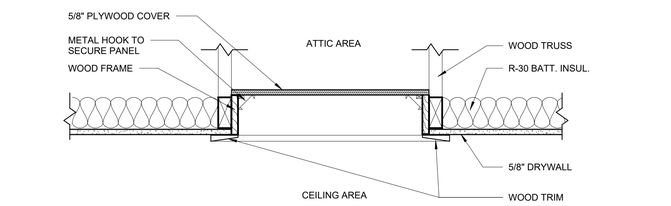
l. Applies when the exit enclosures, exit passageways, corridors or rooms and enclosed spaces are protected by a sprinkler system installed in accordance with Section 903.3.1.1 or 903.3.1.2.

INTERIOR WALLS, FLOOR, TRIM, DECOR AND CEILING FINISH MATERIALS SHALL BE CLASSIFIED IN ACCORDANCE WITH ASTM E84 OR UL 723. SUCH INTERIOR FINISH MATERIALS SHALL BE GROUPED IN THE FOLLOWING CLASSES IN ACCORDANCE WITH THEIR FLAME SPREAD AND SMOKE-DEVELOPED INDEXES. CLASS C=FLAME SPREAD INDEX 76-200; SMOKE DEVELOPED INDEX 0-450. FLAME SPREAD AND SMOKE DEVELOPMENT INDEX FOR INSULATION SHALL BE FLAME SPREAD NOT TO EXCEED 25 AND SMOKE DEVELOPMENT INDEX NOT TO EXCEED 450

7 FINISH TABLE
1 1/2" = 1'-0"



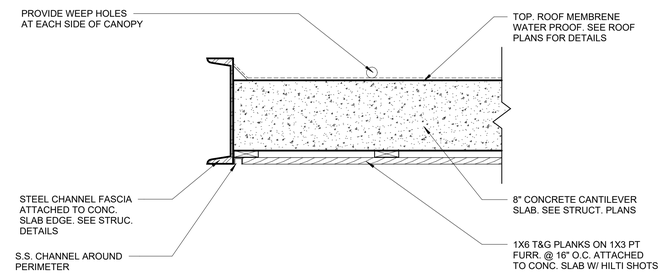

8 TYP DOOR JAMB
3" = 1'-0"



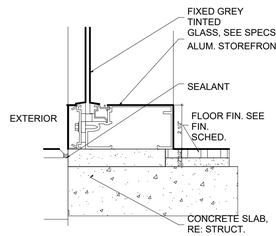

ATTIC ACCESS NOTE:

-MINIMUM ACCESS PANEL SIZE 22" x 36"
-PROVIDE R-30 BATT. INSULATION AND SIDE WEATHER STRIPPED.
-AT GARAGE LOCATION PROVIDE 26 GA MIN. METAL CLA BACK-UP ONE HOUR FIRE RATED.

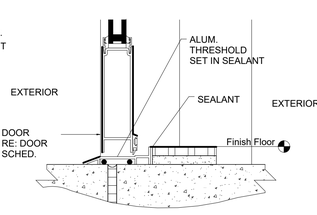
3 ATTIC ACCESS
1 1/2" = 1'-0"



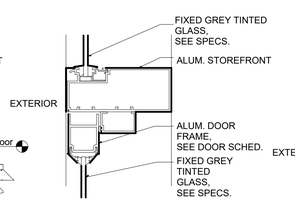

4 CANOPY EDGE DETAIL
1 1/2" = 1'-0"



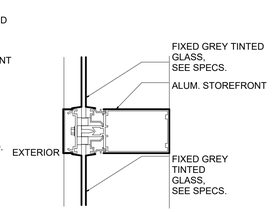

1 STOREFRONT-SILL



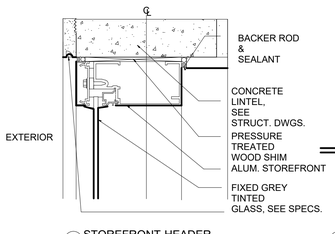

2 STOREFRONT DOOR THRESHOLD



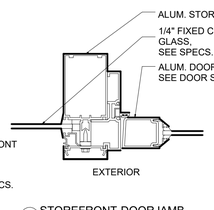

3 STOREFRONT-TRANSOM



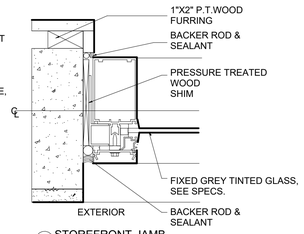

4 STOREFRONT-INTERMED.




5 STOREFRONT-HEADER

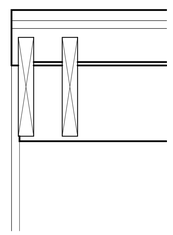



6 STOREFRONT-DOORJAMB

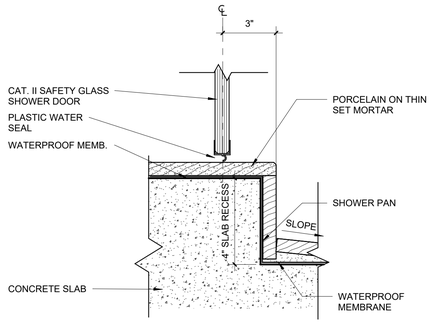



7 STOREFRONT-JAMB

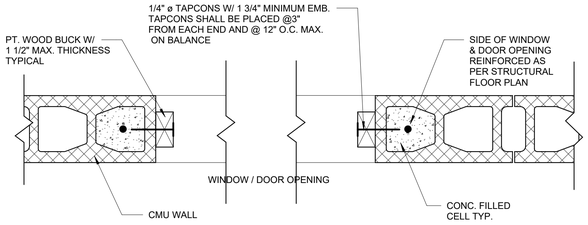
2 STOREFRONT DETAILS
3" = 1'-0"



1 ROOF FASCIA DETAIL
1 1/2" = 1'-0"




5 SHOWER DEPRESSION DETAIL
3" = 1'-0"




9 WINDOWS BUCKS DETAIL
1 1/2" = 1'-0"

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# RESIDENCE: GS JPD 10635 LLC

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MIAMI, FL

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DAVID SCOTT TRAUTMAN -AR15045


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**SCHEMATIC SET**

BALLI - TRAUTMAN
ARCHITECTURE INTERIORS CONSTRUCTION

| | |
|---|---|
| JOB NUMBER: | |
| CHECKED BY: | GB |
| ISSUE DATE: | 11/11/2024 |
| SCALE: | AS NOTED |

SHEET TITLE

DETAILS

SHEET NUMBER

A501


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1533 SUNSET DRIVE SUITE 101, CORAL GABLES, FL 33143

## Door Schedule

| Level | Door Mark | Size Width | Size Height | Family | SHGC | U Value | NOA | Comments |
|---|---|---|---|---|---|---|---|---|
| TOS GARAGE | 103 | 9' - 0" | 9' - 0" | GARAGE DOOR - simple | | | | |
| TOS GARAGE | 102 | 18' - 0" | 9' - 0" | GARAGE DOOR - simple | | | | |
| L1 | 110 | 25' - 0" | 12' - 0" | MULTIPANEL SGD | 0.24 | 1.04 | | |
| L1 | 111 | 19' - 8" | 10' - 0" | Four_Panel_Sliding_door_11160 | | | | |
| L1 | 109 | 15' - 0" | 12' - 0" | MULTIPANEL SGD | 0.24 | 1.04 | | |
| L1 | 108 | 15' - 4" | 12' - 0" | MULTIPANEL SGD | 0.24 | 1.04 | | |
| L1 | 107 | 15' - 4" | 12' - 0" | MULTIPANEL SGD | 0.24 | 1.04 | | |
| L1 | 100 | 5' - 0" | 12' - 0" | Pivot_Door_SOLID 11" | | | | |
| L1 | 106 | 8' - 0" | 12' - 0" | 2 PANEL SGD | 0.24 | 1.04 | | |
| L1 | 105 | 8' - 0" | 9' - 0" | 2 PANEL SGD | 0.24 | 1.04 | | |
| L1 | 112 | 2' - 6" | 8' - 0" | Single-Glass 1 | 0.24 | 1.04 | FL 21835 | |
| L1 | 114 | 3' - 0" | 8' - 0" | Single-Glass 1 | | | FL 21835 | |
| L1 | 104 | 3' - 0" | 8' - 0" | Single-Glass 1 | 0.24 | 1.04 | FL 21835 | |
| L1 | 116 | 2' - 6" | 8' - 0" | Door-Passage-Single-Flush | | | | |
| L1 | 117 | 2' - 6" | 8' - 0" | Door-Passage-Single-Flush | | | | |
| L1 | 124 | 3' - 0" | 8' - 0" | Door-Passage-Single-Flush | | | | |
| L1 | 125 | 3' - 0" | 8' - 0" | Door-Passage-Single-Flush | | | | |
| L1 | 127 | 2' - 6" | 8' - 0" | Door-Passage-Single-Flush | | | | |
| L1 | 128 | 3' - 0" | 8' - 0" | Door-Passage-Single-Flush | | | | |
| L1 | 129 | 2' - 6" | 8' - 0" | Door-Passage-Single-Flush | | | | |
| L1 | 130 | 2' - 6" | 8' - 0" | Door-Interior-Single-Pocket-2_Panel-Wood | | | | |
| L1 | 131 | 3' - 0" | 8' - 0" | Door-Passage-Single-Flush | | | | |
| L1 | 132 | 2' - 6" | 8' - 0" | Door-Passage-Single-Flush | | | | |
| L1 | 133 | 2' - 6" | 8' - 0" | Door-Passage-Single-Flush | | | | |
| L1 | 134 | 5' - 0" | 8' - 0" | Door-Double- wout frame | | | | |
| L1 | 135 | 2' - 6" | 8' - 0" | Door-Passage-Single-Flush | | | | |
| L1 | 136 | 2' - 6" | 8' - 0" | Door-Passage-Single-Flush | | | | |
| L1 | 137 | 2' - 6" | 8' - 0" | Door-Passage-Single-Flush | | | | |
| L1 | 150 | 2' - 6" | 8' - 0" | Door-Passage-Single-Flush | | | | |
| L1 | 151 | 2' - 6" | 8' - 0" | Door-Passage-Single-Flush | | | | |
| L1 | 152 | 2' - 6" | 8' - 0" | Door-Passage-Single-Flush | | | | |
| L1 | 159 | 2' - 6" | 8' - 0" | Door-Passage-Single-Flush | | | | |
| L1 | 160 | 2' - 6" | 8' - 0" | Door-Passage-Single-Flush | | | | |
| L1 | 101 | 23' - 10 1/2" | 11' - 11 1/2" | Door-Sliding-Marvin-Multi_Slide_Stacked_Bi_Parting-Modern | 0.24 | 1.04 | | |
| L2 | 206 | 8' - 0" | 9' - 0" | 2 PANEL SGD | 0.24 | 1.04 | | |
| L2 | 203 | 8' - 0" | 9' - 0" | 2 PANEL SGD | 0.24 | 1.04 | | |
| L2 | 202 | 8' - 0" | 9' - 0" | 2 PANEL SGD | 0.24 | 1.04 | | |
| L2 | 201 | 10' - 0" | 10' - 0" | 2 PANEL SGD | 0.24 | 1.04 | | |
| L2 | 204 | 10' - 0" | 9' - 0" | 2 PANEL SGD | 0.24 | 1.04 | | |
| L2 | 207 | 4' - 0" | 10' - 0" | Pivot_Door_SOLID 11" | | | | |
| L2 | 210 | 3' - 0" | 8' - 0" | Door-Passage-Single-Flush | | | | |
| L2 | 209 | 3' - 0" | 8' - 0" | Door-Passage-Single-Flush | | | | |
| L2 | 208 | 3' - 0" | 8' - 0" | Door-Passage-Single-Flush | | | | |
| L2 | 218 | 2' - 6" | 8' - 0" | Door-Passage-Single-Flush | | | | |
| L2 | 217 | 2' - 6" | 8' - 0" | Door-Passage-Single-Flush | | | | |
| L2 | 221 | 2' - 6" | 8' - 0" | Door-Passage-Single-Flush | | | | |
| L2 | 219 | 2' - 6" | 8' - 0" | Door-Passage-Single-Flush | | | | |
| L2 | 220 | 2' - 6" | 8' - 0" | Door-Passage-Single-Flush | | | | |
| L2 | 222 | 2' - 6" | 8' - 0" | Door-Passage-Single-Flush | | | | |
| L2 | 215 | 2' - 6" | 8' - 0" | Door-Passage-Single-Flush | | | | |
| L2 | 216 | 2' - 6" | 8' - 0" | Door-Passage-Single-Flush | | | | |
| L2 | 212 | 2' - 6" | 8' - 0" | Door-Passage-Single-Flush | | | | |
| L2 | 214 | 2' - 6" | 8' - 0" | Door-Passage-Single-Flush | | | | |
| L2 | 213 | 2' - 6" | 8' - 0" | Door-Passage-Single-Flush | | | | |
| L2 | 211 | 2' - 6" | 8' - 0" | Door-Passage-Single-Flush | | | | |

## Window Schedule

| Count | Type Mark | Size Width | Size Height | Sill Height | SHGC | U Value | NOA |
|---|---|---|---|---|---|---|---|
| 1 | 1 | 3' - 0" | 5' - 0" | 3' - 0" | 0.24 | 1.04 | NOA 18-1220.07 |
| 3 | 2 | 2' - 0" | 5' - 0" | 3' - 0" | 0.24 | 1.04 | NOA 18-1220.07 |
| 1 | 16 | 4' - 0" | 5' - 0" | 3' - 0" | 0.24 | 1.04 | |
| 4 | 24 | 2' - 6" | 5' - 0" | 3' - 0" | 0.24 | 1.04 | NOA 18-1220.07 |
| 1 | 25 | 5' - 0" | 5' - 0" | 3' - 0" | 0.24 | 1.04 | |

**SHOWER NOTE:**

SHOWER DRAIN 2" DIA. HOLE WHERE TILE SHOWER DRAIN WILL BE POSITIONED. APPLY CEMENT MIXTURE MORTAR BED OVER THE SUBFLOOR AT 1/4" PER FOOT SLOPE FROM WALL FRAMING TO THE TOP OF, BUT NOT OVER, THE DRAIN BASE. PAN LINER DIMENSION SHOULD BE SUFFICIENT TO COMPLETY COVER THE FLOOR, TURN UP ALL SIDEWALLS AT LEAST 12 ABOVE THE FINISH CURB HEIGHT. FOLD CORNER AND NAIL LINER TO THE SIDEWALL FRAMIING OR WALL STUDS 1/2" THE UPPER EDGE OF THE MATERIAL. 1 NAIL, SCREW OR STAPLE 12" APART FROM EACH OTHER. WATER TEST THE INSTALLATION WITH A PNEUMATIC ON MECHANICAL TEST PLUG. FILL THE SHOWER FLOOR WITH WATER JUST BELOW THE TOP OF THE CURB AND LET AT LEAST (4) HOURS. A MINIMUM OF 1 1/2" REINFORCEMENT MORTAR BED OF CONCRETE WILL BE LAID OVER THE PAN LINER FROM WALL TO THE DRAIN BARREL, LEAVING ENOUGHROOM FOR THE FINAL THINSET AND TILE APPLICATION. 30 MIL LINER

1 RECESS SHOWER DETAIL
3" = 1'-0"

## Room Finish Schedule

| Room Name | Floor Finish | Base Finish | Wall Finish | Ceiling Finish |
|---|---|---|---|---|
| FAMILY ROOM | PORCELAIN TILE | WOOD PAINTED | DRYWALL PAINTED | PLASTER OVER GWD |
| KITCHEN | PORCELAIN TILE | WOOD PAINTED | DRYWALL PAINTED | PLASTER OVER GWD |
| STUDY | PORCELAIN TILE | WOOD PAINTED | DRYWALL PAINTED | PLASTER OVER GWD |
| GREAT ROOM | PORCELAIN TILE | WOOD PAINTED | DRYWALL PAINTED | PLASTER OVER GWD |
| DINING ROOM | PORCELAIN TILE | WOOD PAINTED | DRYWALL PAINTED | PLASTER OVER GWD |
| FOYER | PORCELAIN TILE | WOOD PAINTED | DRYWALL PAINTED | PLASTER OVER GWD |
| GAME ROOM | PORCELAIN TILE | WOOD PAINTED | DRYWALL PAINTED | PLASTER OVER GWD |
| LOUNGE | PORCELAIN TILE | WOOD PAINTED | DRYWALL PAINTED | PLASTER OVER GWD |
| BAR | PORCELAIN TILE | WOOD PAINTED | DRYWALL PAINTED | PLASTER OVER GWD |
| MEDIA | PORCELAIN TILE | WOOD PAINTED | DRYWALL PAINTED | PLASTER OVER GWD |
| GUEST SUITE | PORCELAIN TILE | WOOD PAINTED | DRYWALL PAINTED | PLASTER OVER GWD |
| GARAGE | POLISHED CEMENT | N/A | DRYWALL PAINTED | PLASTER OVER GWD |
| LAUNDRY | PORCELAIN TILE | WOOD PAINTED | DRYWALL PAINTED | PLASTER OVER GWD |
| STAFF | PORCELAIN TILE | WOOD PAINTED | DRYWALL PAINTED | PLASTER OVER GWD |
| BATH | PORCELAIN TILE | N/A | STONE/TILE/DRYWALL PAINTED | PLASTER OVER GWD |
| WIC | PORCELAIN TILE | WOOD PAINTED | DRYWALL PAINTED | PLASTER OVER GWD |
| PANTRY | PORCELAIN TILE | WOOD PAINTED | DRYWALL PAINTED | PLASTER OVER GWD |
| GYM | PORCELAIN TILE | WOOD PAINTED | DRYWALL PAINTED | PLASTER OVER GWD |
| CABANA | PORCELAIN TILE | N/A | STONE/TILE/DRYWALL PAINTED | PLASTER OVER GWD |
| CLOS | PORCELAIN TILE | WOOD PAINTED | DRYWALL PAINTED | PLASTER OVER GWD |
| WIC | PORCELAIN TILE | WOOD PAINTED | DRYWALL PAINTED | PLASTER OVER GWD |
| WINE | PORCELAIN TILE | WOOD PAINTED | DRYWALL PAINTED | PLASTER OVER GWD |
| AHUs | PORCELAIN TILE | WOOD PAINTED | DRYWALL PAINTED | PLASTER OVER GWD |
| BATH | PORCELAIN TILE | N/A | DRYWALL PAINTED | PLASTER OVER GWD |
| ELEVATOR | BY MANUFACTURER | N/A | BY MANUFACTURER | BY MANUFACTURER |
| BATH | PORCELAIN TILE | N/A | STONE/TILE/DRYWALL PAINTED | PLASTER OVER GWD |
| WIC | PORCELAIN TILE | WOOD PAINTED | DRYWALL PAINTED | PLASTER OVER GWD |
| ENTRY PAVILLION | PORCELAIN TILE | N/A | N/A | WOOD |
| ENTRY COURT | POLISHED CEMENT | N/A | N/A | N/A |
| BEDROOM 3 | PORCELAIN TILE | N/A | DRYWALL PAINTED | PLASTER OVER GWD |
| BATH | PORCELAIN TILE | N/A | STONE/TILE/DRYWALL PAINTED | PLASTER OVER GWD |
| BATH | PORCELAIN TILE | N/A | STONE/TILE/DRYWALL PAINTED | PLASTER OVER GWD |
| WIC | PORCELAIN TILE | WOOD PAINTED | DRYWALL PAINTED | PLASTER OVER GWD |
| WIC | PORCELAIN TILE | WOOD PAINTED | DRYWALL PAINTED | PLASTER OVER GWD |
| BEDROOM 2 | PORCELAIN TILE | WOOD PAINTED | DRYWALL PAINTED | PLASTER OVER GWD |
| LOUNGE | PORCELAIN TILE | WOOD PAINTED | DRYWALL PAINTED | PLASTER OVER GWD |
| WIC | PORCELAIN TILE | WOOD PAINTED | DRYWALL PAINTED | PLASTER OVER GWD |
| ELEV | BY MANUFACTURER | N/A | BY MANUFACTURER | BY MANUFACTURER |
| WC | PORCELAIN TILE | WOOD PAINTED | DRYWALL PAINTED | PLASTER OVER GWD |
| PRIMARY SUITE | PORCELAIN TILE | WOOD PAINTED | DRYWALL PAINTED | PLASTER OVER GWD |
| WIC | PORCELAIN TILE | WOOD PAINTED | STONE/TILE/DRYWALL PAINTED | PLASTER OVER GWD |
| PRIMARY BATH | PORCELAIN TILE | N/A | STONE/TILE/DRYWALL PAINTED | PLASTER OVER GWD |
| TURF ROOF | | N/A | N/A | N/A |
| BALCONY | | N/A | N/A | WOOD |
| BALCONY | | N/A | N/A | WOOD |
| BALCONY | | N/A | N/A | WOOD |
| BEDROOM 1 | PORCELAIN TILE | WOOD PAINTED | DRYWALL PAINTED | PLASTER OVER GWD |
| WIC | PORCELAIN TILE | WOOD PAINTED | DRYWALL PAINTED | PLASTER OVER GWD |
| BATH 1 | PORCELAIN TILE | N/A | STONE/TILE/DRYWALL PAINTED | PLASTER OVER GWD |
| BALCONY | | N/A | N/A | WOOD |
| PWDR RM | PORCELAIN TILE | N/A | STONE/TILE/DRYWALL PAINTED | PLASTER OVER GWD |
| A/V | PORCELAIN TILE | WOOD PAINTED | DRYWALL PAINTED | PLASTER OVER GWD |
| COVERED LOGGIA | | N/A | N/A | WOOD |

# RESIDENCE: GS JPD 10635 LLC

10635 SW 63 AV
MIAMI, FL

SEAL

giorgio balli
Digitally signed by giorgio balli
Date: 2024.12.02 18:17:15 -05'00'


BALLI-TRAUTMAN ARCHITECTS LLC -AA26002968

GIORGIO LUIGI BALLI -AR13951
DAVID SCOTT TRAUTMAN -AR15045


**REVISIONS**

| NO. | DESC | DATE |
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**SCHEMATIC SET**

BALLI - TRAUTMAN
ARCHITECTURE INTERIORS CONSTRUCTION

JOB NUMBER:
CHECKED BY: GB
ISSUE DATE: 11/11/2024
SCALE: AS NOTED

SHEET TITLE

SCHEDULES

SHEET NUMBER

A601


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1533 SUNSET DRIVE SUITE 101, CORAL GABLES, FL 33143



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A601.pdf

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
ONSITE SEWAGE TREATMENT AND DISPOSAL SYSTEM (OSTDS)

PERMIT NO. _____
DATE PAID: _____
FEE PAID: _____
RECEIPT #: _____

## APPLICATION FOR CONSTRUCTION PERMIT

APPLICATION FOR:
[ x ] New System [ ] Existing System [ ] Holding Tank [ ] Innovative
[ ] Repair [ ] Abandonment [ ] Temporary [ ] _____

APPLICANT: GS JPD 10635 LLC EMAIL: southernsepticcorporation@gmail.com

AGENT: SOUTHERN SEPTIC AND LIFT STATION CORP TELEPHONE: 305 598-8266

MAILING ADDRESS: 21051 SW 234 ST HOMESTEAD, FL 33031

==========

TO BE COMPLETED BY APPLICANT OR APPLICANT'S AUTHORIZED AGENT. SYSTEMS MUST BE CONSTRUCTED BY A PERSON LICENSED PURSUANT TO 489.105(3)(m) OR 489.552, FLORIDA STATUTES. IT IS THE APPLICANT'S RESPONSIBILITY TO PROVIDE DOCUMENTATION OF THE DATE THE LOT WAS CREATED OR PLATTED (MM/DD/YY) IF REQUESTING CONSIDERATION OF STATUTORY GRANDFATHER PROVISIONS.

==========

PROPERTY INFORMATION OSTDS REMEDIATION PLAN? [ Y / N ]

LOT: 2 BLOCK: 6 SUBDIVISION: HELMS COUNTRY ESTS PLATTED: 1950

PROPERTY ID #: 20-5012-004-0530 ZONING: RES I/M OR EQUIVALENT: [ (Y) / N ]

PROPERTY SIZE: .919 ACRES WATER SUPPLY: [ ] PRIVATE PUBLIC [ x ]<=2000GPD [ ]>2000GPD

IS SEWER AVAILABLE AS PER 381.0065, FS? [ Y / (N) ] DISTANCE TO SEWER: N/A FT

PROPERTY ADDRESS: 10635 SW 63 AVE PINECREST, FL 33156

DIRECTIONS TO PROPERTY: SW 67 AVE TO 104 ST TO 63 AVE

"This item has been digitally signed and sealed by Daniel F. Gutierrez on the date adjacent to the seal. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies"

BUILDING INFORMATION [ x ] RESIDENTIAL [ ] COMMERCIAL

| Unit No. | Type of Establishment | No. of Bedrooms | Building Area Sqft | Commercial/Institutional System Design Table I, Chapter 62-6, FAC |
|---|---|---|---|---|
| 1 | SFR | 6 | 9387 | |
| 2 | | | | |
| 3 | | | | |
| 4 | | | | |

Daniel F Gutierrez
Digitally signed by Daniel F Gutierrez
DN: CN=Daniel F Gutierrez, dnQualifier=A01410C00000195 71A387C50014606D, O=Unaffiliated, C=US
Date: 2025.03.11 10:27:33-04'00'

[ ] Floor/Equipment Drains [ ] Other (Specify) _____

DANIEL F. GUTIERREZ LICENSE No. 49086 STATE OF FLORIDA PROFESSIONAL ENGINEER

SIGNATURE: DANIEL GUTIERREZ P.E. 49086 DATE: 02-05-2025

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Application For Construction SYSTEM 1 RWK 3.14.2025.pdf
DEP 4015, 06-21-2022 (Obsoletes previous editions which may not be used)
Examiner Date Time Stamp Trade Stamp Name
VALDIVIESO, JOSE 6/24/2025 10:43:30 AM HRS Approved
Incorporated 62-6.004, FAC

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
ONSITE SEWAGE TREATMENT AND DISPOSAL SYSTEM (OSTDS)

PERMIT NO. _____
DATE PAID: _____
FEE PAID: _____
RECEIPT #: _____

## APPLICATION FOR CONSTRUCTION PERMIT

APPLICATION FOR:
[ x ] New System [ ] Existing System [ ] Holding Tank [ ] Innovative
[ ] Repair [ ] Abandonment [ ] Temporary [ ] _____

APPLICANT: GS JPD 10635 LLC EMAIL: southernsepticcorporation@gmail.com

AGENT: SOUTHERN SEPTIC AND LIFT STATION CORP TELEPHONE: 305 598-8266

MAILING ADDRESS: 21051 SW 234 ST HOMESTEAD, FL 33031

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PROPERTY INFORMATION OSTDS REMEDIATION PLAN? [ Y / N ]

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PROPERTY ID #: 20-5012-004-0530 ZONING: RES I/M OR EQUIVALENT: [ Y / N ]

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|---|---|---|---|---|
| 1 | SFR | 6 | 9387 | |
| 2 | | | | |
| 3 | | | | |
| 4 | | | | |

Daniel F Gutierrez
Digitally signed by Daniel F Gutierrez
DN: CN=Daniel F Gutierrez, serialNumber=A01410C0000019571A387C500146060, O=Unaffiliated, C=US
Date: 2025.03.11 10:26:38-04'00'

[ ] Floor/Equipment Drains [ ] Other (Specify) _____

DANIEL F. GUTIERREZ LICENSE No. 49086 STATE OF FLORIDA PROFESSIONAL ENGINEER

SIGNATURE: DANIEL GUTIERREZ P.E. 49086 DATE: 02-05-2025

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Application For construction SYSTEM 2 RWK 3.14.2025.pdf

DEP 4015, 06-21-2022, (Obsoletes previous editions which may not be used)

| Examiner | Date Time Stamp | Trade Stamp Name |
|---|---|---|
| VALDIVIESO, JOSE | 6/24/2025 10:43:03 AM HRS | Approved |

Incorporated 62-6.004, FAC

CONSULTING ARBORIST, INC.

# Arboriculture Tree Report

## 10635 SW 63rd Ave, Pinecrest

**Name:** Balli Trautman Architects. LLC
**Attn.:** Nicole Cabrera
**Address:** 1533 Sunset Drive #101
Coral Gables, FL 33143

**Date:** October 20th, 2024
**Phone:** 305.669.5160
**Email:** giorgio@theballigroup.com

**Prepared by:** John Sutton
International Society of Arboriculture Certified Arborist

**Certification of Performance**

I, John Sutton, certify to the best of my knowledge, and abilities:

That I have personally inspected the tree(s) and or the property referred to in this report.

That it is my professional opinion, that the following report is true, and the conclusions and results stated are correct based on the information received about the property evaluated and the evaluation methods followed.

That the reported analyses, opinions, and conclusions are only limited by the reported assumptions, methods and limiting conditions and my personal, unbiased professional analyses, opinions and conclusions.

That Sutton Consulting Arborist, Inc. acts as an independent tree, and landscape consultant. This firm has no prospective or current interest in the property evaluated or interest/bias with respect to the parties involved.

That this Report, or parts of this Report, have not been revealed to any party other than the Client named and will not be revealed to any other party unless authorized to do so by Client named or by due process of law or by legally required public testimony by this firm of these results.

This report is written in good faith and all rights are reserved by Sutton Consulting Arborist, Inc. It is for use by the client named only.

_____John Sutton_____
John Sutton/Sutton Consulting Arborist
ISA Certified Arborist #SO-0326



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# Report

## I. Introduction

This is a single-family residential property. My assignment is to evaluate all trees and palms on site for health and condition.

## II. Property Involved

The property involved is known as 10635 SW 63rd Avenue, Pinecrest, FL 33156. I arrived on site 10-17-2024. The trees/palms are located throughout the property.

## III. Data Collection

The property/trees were evaluated by site visit to determine environmental conditions, species, size (DBH and height) condition as a percentage and pictures.

## IV. Limiting Conditions

This "Arboriculture Report" includes only the listed trees, landscape conditions in the immediate area where the tree is located, and conditions caused by or attributable to the trees on this property. We did not evaluate and make no evaluation or conclusions regarding any other part of the landscape or other items of this property.

Limits of the Assignment

1. This report is not intended as and does not represent legal advice and should not be relied upon to take the place of such advice.

2. This report is limited to documenting the condition of the tree on the dates given. Care has been taken to obtain all information from reliable sources. All data has been verified insofar as possible; however, the consultant can neither guarantee nor be responsible for the accuracy of information provided be others.

3. Loss or alteration of any part of this report invalidates the entire report.

4. Sketches and photographs used in this report are intended as visual aids only and are not necessarily to scale.

## V. Discussion

A landscape is not a forest, woods, or other wild habitat. It is intended to be a planned and controlled environment. Trees can cause considerable damage to structures when not planted in the right locations based on species and mature size. Trees should be planted with adequate green space for mature tree size both above and below ground in-order to prevent conflicts with structures above and below ground. The appearance and value of a landscapes suffer, and the property devaluates due to poor tree selection and placement.



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**Arborist Report.pdf**

Poorly planned landscapes also give rise to possible property damage, bodily injury and other negative circumstances and unnecessary expenses

Professionally designed and professionally maintained landscape, plants, shrubs, and trees traditionally stabilize and/or increase property values.

Trees growing in groups depend on each member of the group for stability of their root systems, wind breaks and shade. They work as one unit and appear as one from an aerial view. The loss of one or more from the group can and does have a detrimental effect on health, stability as well as aesthetics.

Most tree roots grow out horizontally from the tree in the top 6-12 inches of soil. A mature tree's roots can spread 2-3 times the diameter of the tree's crown or canopy.

**Critical Root Zone (CRZ)**

For existing trees, there is a minimum amount of area, above (for the trunk and crown) and below ground (for soil health and the root system vitality) that is required to protect trees and preserve tree health. This area is identified as the Critical Root Zone (CRZ) and is generally agreed to be equivalent to the soil area below ground and the space above ground defined by the tree's dripline, or the greatest extent of the branches. Significant risk of catastrophic failure exists if structural roots within this given radius are destroyed or severely damaged. Limits of disruption are based upon tree diameter (DBH) at 4.5 feet above the ground. We define the Critical Root Zone for all trees as the circular area above and below ground with a radius equivalent to the greater of 6 feet or 1.0 feet for every inch in trunk diameter at 4.5 feet above the ground. For example, a tree with a trunk diameter (DBH) of 10 inches has a CRZ of 10 feet (10 inches x 1.0) around the tree. While the radius of the CRZ is 10 feet, the diameter of the entire CRZ is 20 feet.

Generally, the full Perimeter (PCRZ) is considered the optimum amount of root protection for a tree. (The ICRZ is identified as the inner half of the CRZ radius). As root impact occurs within the PCRZ, greater post care will be required for the tree to remain alive and stable. The absolute maximum disturbance allowed must still leave the ICRZ undisturbed if the tree is to have any chance of survival.

The CRZ (Critical Root Zone) is calculated at 1" of root for each inch of trunk diameter at or near breast height (dbh). This gives the radius of the CRZ.

Example:

| Tree Diameter | CRZ | Tree Diameter | CRZ |
|---|---|---|---|
| 2" diameter | 2' radius | 16" diameter | 16' radius |
| 4" diameter | 4' radius | 20" diameter | 20' radius |
| 6" diameter | 6' radius | 24" diameter | 24' radius |
| 10" diameter | 10' radius | 30" diameter | 30' radius |
| 12" diameter | 12' radius | 40" diameter | 40' radius |

The CRZ of a tree, also called the "tree protection zone", is often defined as an imaginary circle on the ground that corresponds with the "dripline" of the tree. However, the dripline is very irregular and misleading, so the trunk diameter is referred to.



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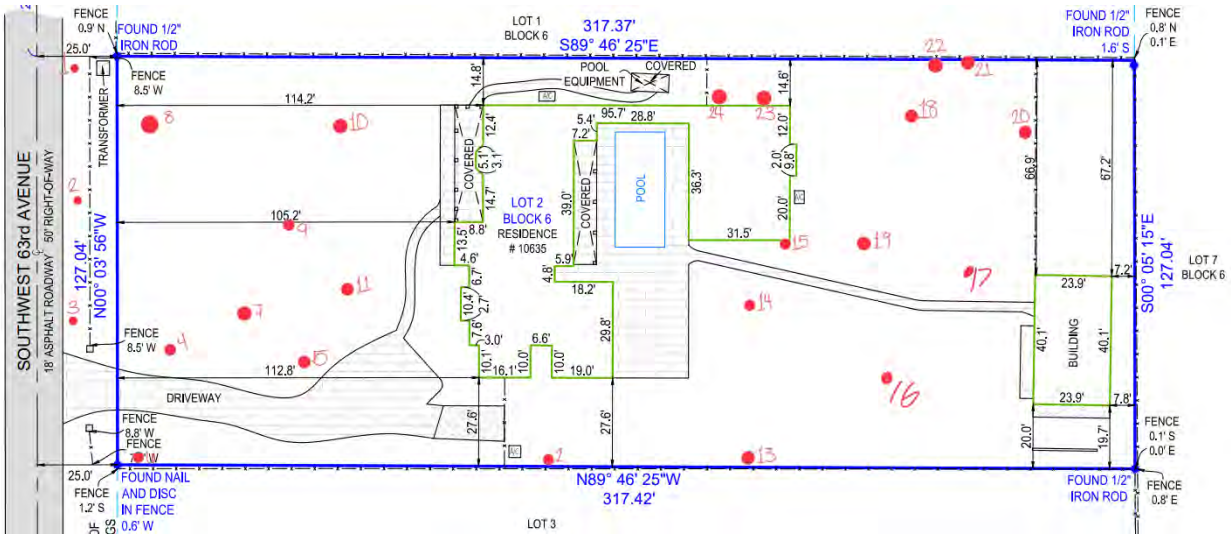
This is a generally accepted method for measuring CRZ, root systems do vary in depth and spread based on size of tree, soil quality, water table, species, and other related factors such as root obstructions.

## VI. Conclusions and Recommendations

Please see survey with tree locations, excel spreadsheet and pictures below. All trees accessible have been tagged with numbers that correspond with report and survey.




| Tree # | Common name | *Botanical name* | DBH INCH | CRZ FT | ICRZ FT | Height OA | CANOPY SQ FT | Condition | Notes |
|---|---|---|---|---|---|---|---|---|---|
| 1 | Live oak | Quercus virginiana | 12.5 | 12.5 | 6.25 | 30 | 30x28 | 70% | Co-canopy, restricted roots on the West side of the trunk road is 5.5ft away |
| 2 | Live oak | Quercus virginiana | 14.5 | 14.5 | 7.25 | 32 | 36x26 | 60% | Co-canopy, restricted roots on the West side of the trunk road is 5.5ft away, co-dom |
| 3 | Live oak | Quercus virginiana | 15 | 15 | 7.5 | 35 | 38x33 | 70% | Co-canopy, restricted roots on the West side of the trunk road is 5.5ft away, co-dom |
| 4 | Live oak | Quercus virginiana | 11 | 11 | 5.5 | 28 | 32x18 | 50% | Sub-canopy, co-dom |
| 5 | Live oak | Quercus virginiana | 23.5 | 23.5 | 11.8 | 35 | 55x35 | 70% | Co-canopy, driveway pavers are approximately 10ft away from the trunk on the south side |
| 6 | Gumbo limbo | Bursera simaruba | 13 | 13 | 6.5 | 28 | 26x26 | 50% | The canopy leans towards the neighbors property |
| 7 | Live oak | Quercus virginiana | 16 | 16 | 8 | 30 | 42x38 | 70% | Co-canopy |
| 8 | Live oak | Quercus virginiana | 17 | 17 | 8.5 | 30 | 36x36 | 80% | |
| 9 | Live oak | Quercus virginiana | 18 | 18 | 9 | 35 | 46x36 | 70% | Co-canopy |
| 10 | Live oak | Quercus virginiana | 29.5 | 29.5 | 14.8 | 42 | 54x42 | 70% | Co-canopy, co-dom |



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| Tree # | Common name | *Botanical name* | DBH INCH | CRZ FT | ICRZ FT | Height OA | CANOPY SQ FT | Condition | Notes |
|---|---|---|---|---|---|---|---|---|---|
| 11 | Live oak | Quercus virginiana | 35 | 35 | 17.5 | 40 | 70x60 | 70% | Co-canopy, co-dom |
| 12 | Live oak | Quercus virginiana | 24 | 24 | 12 | 35 | 42x42 | 60% | Co-canopy |
| 13 | Live oak | Quercus virginiana | 32 | 32 | 16 | 45 | 58x33 | 50% | Co-canopy, non-symmetrical canopy |
| 14 | Live oak | Quercus virginiana | 25 | 25 | 12.5 | 35 | 42x42 | 70% | Multi co-dom |
| 15 | Pigeon pea | Cajanus cajan | 6 | 6 | 3 | 12 | 22x22 | 70% | Multi-stemmed |
| 16 | Live oak | Quercus virginiana | 18 | 18 | 9 | 35 | 60x46 | 50% | Girdling roots, co-canopy |
| 17 | Live oak | Quercus virginiana | 16.5 | 16.5 | 8.25 | 35 | 60x52 | 60% | Co-canopy, co-dom |
| 18 | Live oak | Quercus virginiana | 31 | 31 | 15.5 | 45 | 60x60 | 60% | Co-canopy, multi-co-dom with inclusion, poor structure |
| 19 | Mango | Mangifera indica | 5 | 5 | 2.5 | 15 | 18x18 | 70% | Co-dom |
| 20 | Avocado | Persea americana | 2 | 2 | 1 | 18 | 8x8 | 70% | |
| 21 | Yellow elder | *Tecoma stans* | 2.5 | 2.5 | 1.25 | 15 | 16x12 | 60% | Co-canopy |
| 22 | Pigeon pea | Cajanus cajan | 2 | 2 | 1 | 10 | 14x9 | 40% | Sub-canopy |
| 23 | Pigeon pea | Cajanus cajan | 2 | 2 | 1 | 11 | 11x9 | 30% | Planted less than 1ft away from structure |
| 24 | Pigeon pea | Cajanus cajan | 4.5 | 4.5 | 2.25 | 12 | 14x15 | 20% | Planted less than 1ft away from structure, previously heaved |


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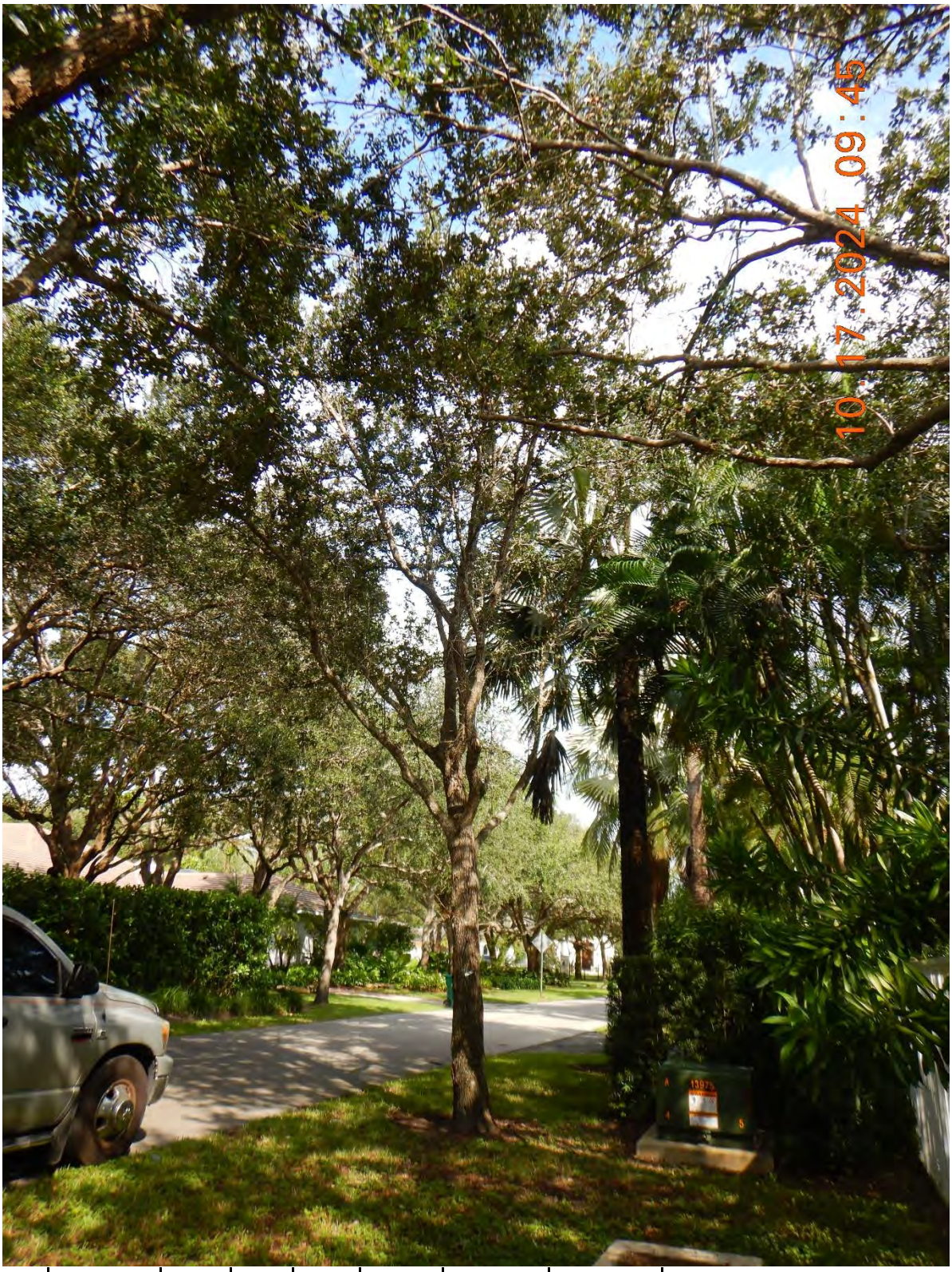


| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 1 | Live oak | Quercus virginiana | 12.5 | 12.5 | 6.25 | 30 | 30x28 | 70% | Co-canopy, restricted roots on the West side of the trunk road is 5.5ft away |



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|---|---|---|---|---|---|---|---|---|---|
| 2 | Live oak | Quercus virginiana | 14.5 | 14.5 | 7.25 | 32 | 36x26 | 60% | Co-canopy, restricted roots on the West side of the trunk road is 5.5ft away, co-dom |



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|---|---|---|---|---|---|---|---|---|---|
| 3 | Live oak | Quercus virginiana | 15 | 15 | 7.5 | 35 | 38x33 | 70% | Co-canopy, restricted roots on the West side of the trunk road is 5.5ft away, co-dom |



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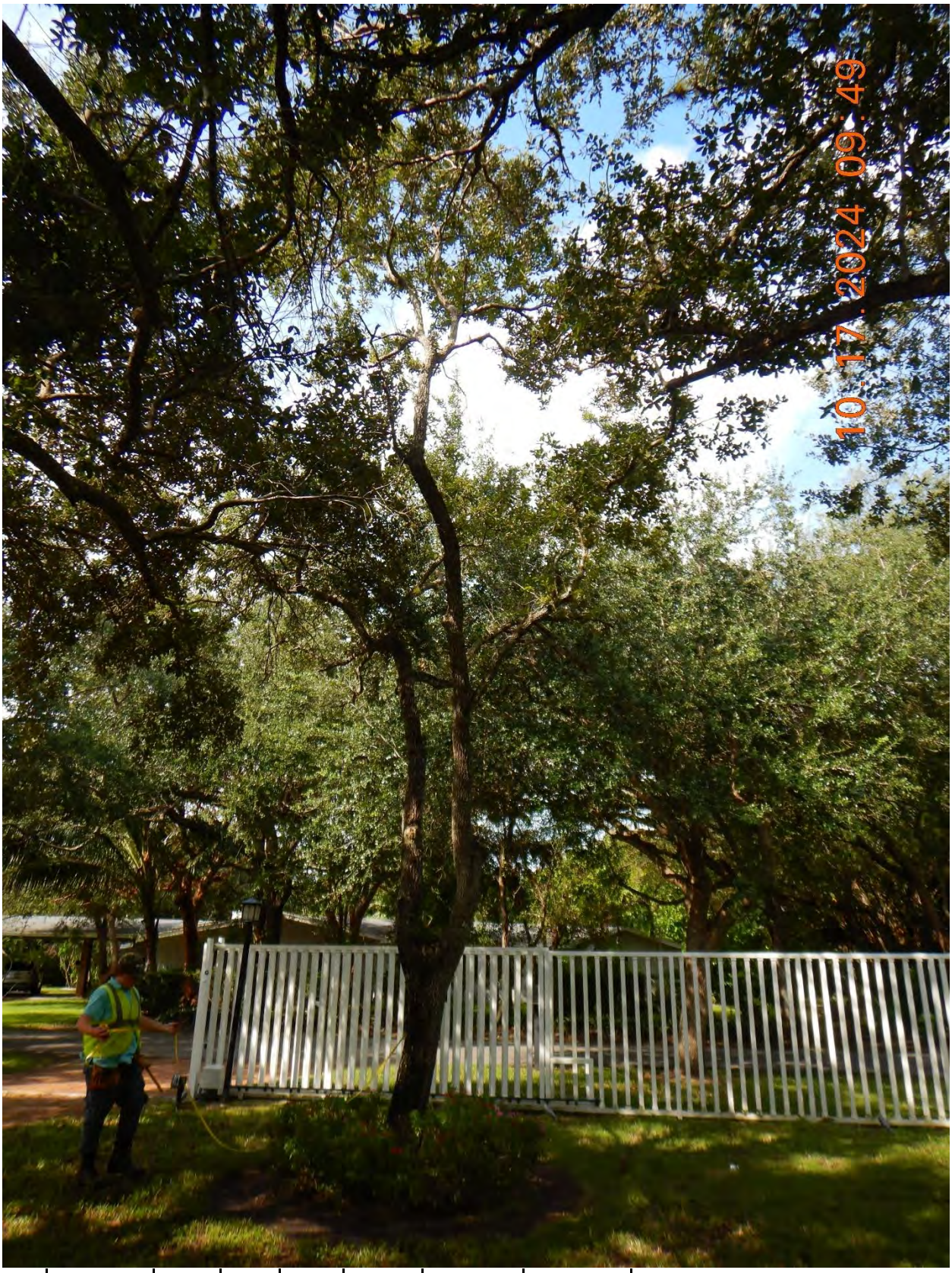


| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 4 | Live oak | Quercus virginiana | 11 | 11 | 5.5 | 28 | 32x18 | 50% | Sub-canopy, co-dom |



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|---|---|---|---|---|---|---|---|---|---|
| 5 | Live oak | Quercus virginiana | 23.5 | 23.5 | 11.8 | 35 | 55x35 | 70% | Co-canopy, driveway pavers are approximately 10ft away from the trunk on the south side |



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| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 6 | Gumbo limbo | Bursera simaruba | 13 | 13 | 6.5 | 28 | 26x26 | 50% | The canopy leans toward the neighbor's property |



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| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 7 | Live oak | Quercus virginiana | 16 | 16 | 8 | 30 | 42x38 | 70% | Co-canopy |



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| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 8 | Live oak | Quercus virginiana | 17 | 17 | 8.5 | 30 | 36x36 | 80% | |



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|---|---|---|---|---|---|---|---|---|---|
| 9 | Live oak | Quercus virginiana | 18 | 18 | 9 | 35 | 46x36 | 70% | Co-canopy |



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|---|---|---|---|---|---|---|---|---|---|
| 10 | Live oak | Quercus virginiana | 29.5 | 29.5 | 14.8 | 42 | 54x42 | 70% | Co-canopy, co-dom |



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| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 11 | Live oak | Quercus virginiana | 35 | 35 | 17.5 | 40 | 70x60 | 70% | Co-canopy, co-dom |



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|---|---|---|---|---|---|---|---|---|---|
| 12 | Live oak | Quercus virginiana | 24 | 24 | 12 | 35 | 42x42 | 60% | Co-canopy |



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|---|---|---|---|---|---|---|---|---|---|
| 13 | Live oak | Quercus virginiana | 32 | 32 | 16 | 45 | 58x33 | 50% | Co-canopy, non-symmetrical canopy |



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|---|---|---|---|---|---|---|---|---|---|
| 14 | Live oak | Quercus virginiana | 25 | 25 | 12.5 | 35 | 42x42 | 70% | Multi co-dom |



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|---|---|---|---|---|---|---|---|---|---|
| 15 | Pigeon pea | Cajanus cajan | 6 | 6 | 3 | 12 | 22x22 | 70% | Multi-stemmed |



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|---|---|---|---|---|---|---|---|---|---|
| 16 | Live oak | Quercus virginiana | 18 | 18 | 9 | 35 | 60x46 | 50% | Girdling roots, co-canopy |



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|---|---|---|---|---|---|---|---|---|---|
| 16 | Live oak | Quercus virginiana | 18 | 18 | 9 | 35 | 60x46 | 50% | Girdling roots, co-canopy |



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|---|---|---|---|---|---|---|---|---|---|
| 17 | Live oak | Quercus virginiana | 16.5 | 16.5 | 8.25 | 35 | 60x52 | 60% | Co-canopy, co-dom |



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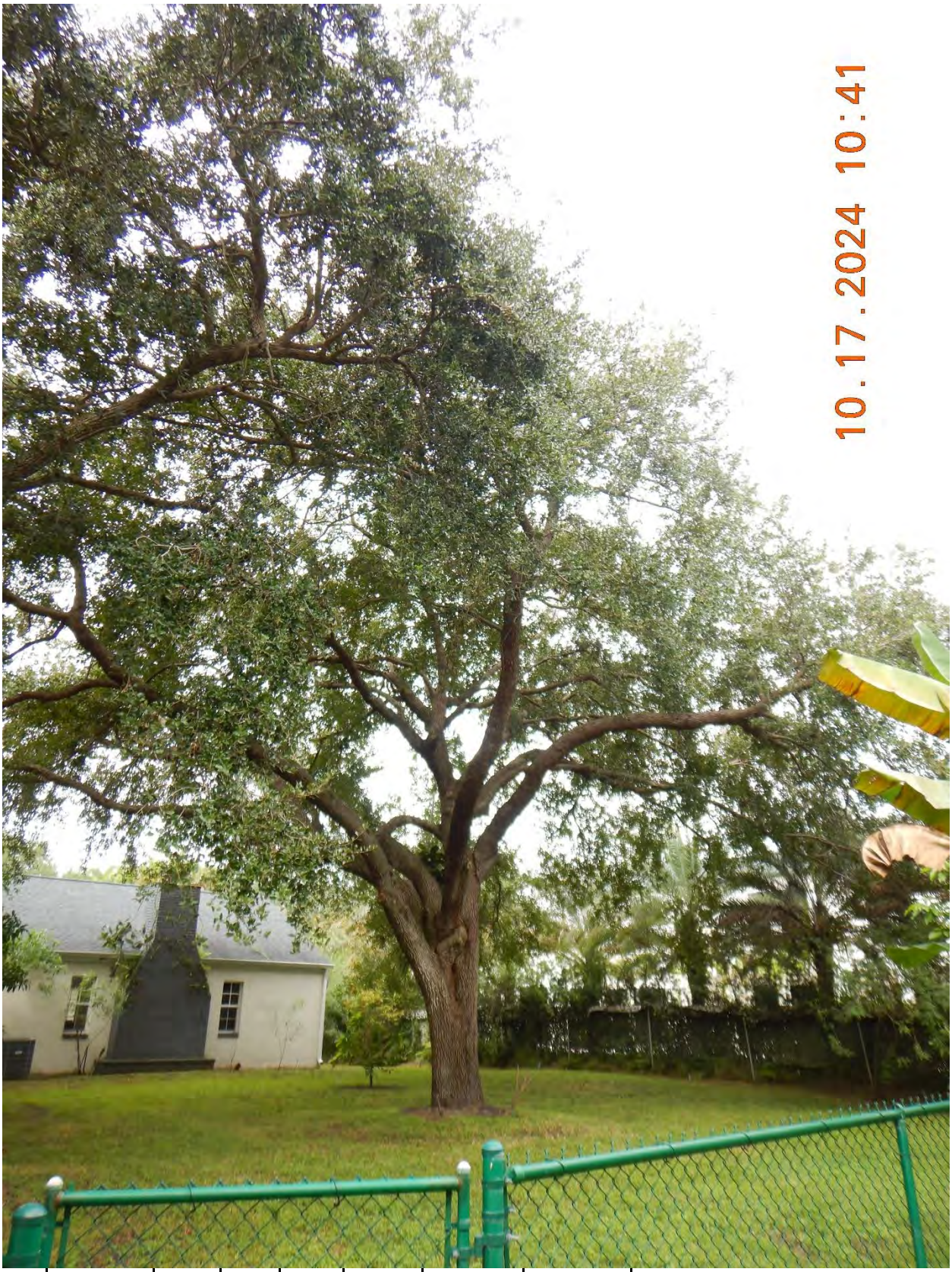


| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 18 | Live oak | Quercus virginiana | 31 | 31 | 15.5 | 45 | 60x60 | 60% | Co-canopy, multi-co-dom with inclusion, poor structure |



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|---|---|---|---|---|---|---|---|---|---|
| 19 | Mango | Mangifera indica | 5 | 5 | 2.5 | 15 | 18x18 | 70% | Co-dom |



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|---|---|---|---|---|---|---|---|---|---|
| 20 | Avocado | Persea americana | 2 | 2 | 1 | 18 | 8x8 | 70% | |



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| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 21 | Yellow elder | *Tecoma stans* | 2.5 | 2.5 | 1.25 | 15 | 16x12 | 60% | Co-canopy |



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|---|---|---|---|---|---|---|---|---|---|
| 22 | Pigeon pea | Cajanus cajan | 2 | 2 | 1 | 10 | 14x9 | 40% | Sub-canopy |



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|---|---|---|---|---|---|---|---|---|---|
| 23 | Pigeon pea | Cajanus cajan | 2 | 2 | 1 | 11 | 11x9 | 30% | Planted less than 1ft away from structure |



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| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 24 | Pigeon pea | Cajanus cajan | 4.5 | 4.5 | 2.25 | 12 | 14x15 | 20% | Planted less than 1ft away from structure, previously heaved |

Please feel free to contact me should you have any questions.

In Support

_____John Sutton_____

John Sutton/Sutton Consulting Arborist
ISA Certified Arborist #SO-0326
TRAQ, Tree Risk Assessment Qualification
PPQ, Pruning Prescription Qualification

Sutton Consulting Arborist is staffed by professional Arborists, Horticulturists, and Landscape Inspectors. We utilize associates with expertise in their fields to provide the most accurate, efficient and useful information available to clients. We stand behind our work and can additionally answer any questions or fulfill needs for additional information or services.



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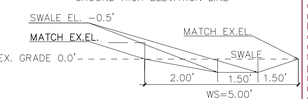
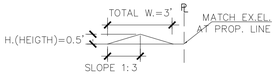
DPAD
SWPPP: Permit applicants need to obtain all required stormwater permits including but not limited to, the ERP from the SFWMD or DEP Southeast District Office, and the Department's NPDES Generic Permit for Stormwater Discharge from Large and Small Construction Activities (CGP, Rule 62-621.300(4), F.A.C.), as applicable. Furthermore, a Stormwater Pollution Prevention Plan (SWPPP) shall be created, posted and implemented on-site, to prevent the discharge of pollutants, including soil, from the construction site to adjacent properties, the environment, surface water bodies, or to municipal separate storm sewer systems (MS4). The implementation of a SWPPP applies to any work that disturbs the ground (i.e., new construction, building addition, pools etc.). At a minimum, BMPs (e.g. silt fence, hay bales) shall be implemented around the work area and entrance/exit controls to the site (e.g. gravel, used to stabilize the entrances/exits to the site to reduce the amount of soils transported onto paved roads by vehicles). It is the Contractor's responsibility to adhere to the SWPPP and to implement best management practices to prevent stormwater pollution and sedimentation debris from entering adjacent properties and/or public right of way.
DE TORRES, MAYRA, 3/16/2025 12:06:57 PM

LEGEND:

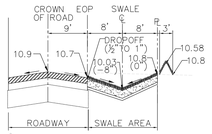
10.6 PROPOSED ELEVATION
+10.7 EXISTING ELEVATION
MATCH EX.EL. MATCH EXISTING ELEVATION
SLP SLOPE (FLOW DIRECTION)
GROUND HIGH ELEVATION LINE




SCHEMATIC SWALE DETAIL
N.T.S.




SCHEMATIC BERM DETAIL
N.T.S.




6 - VoP PW TYP. SWALE
SCALES: H: 1"=10'
V: 1"=40'

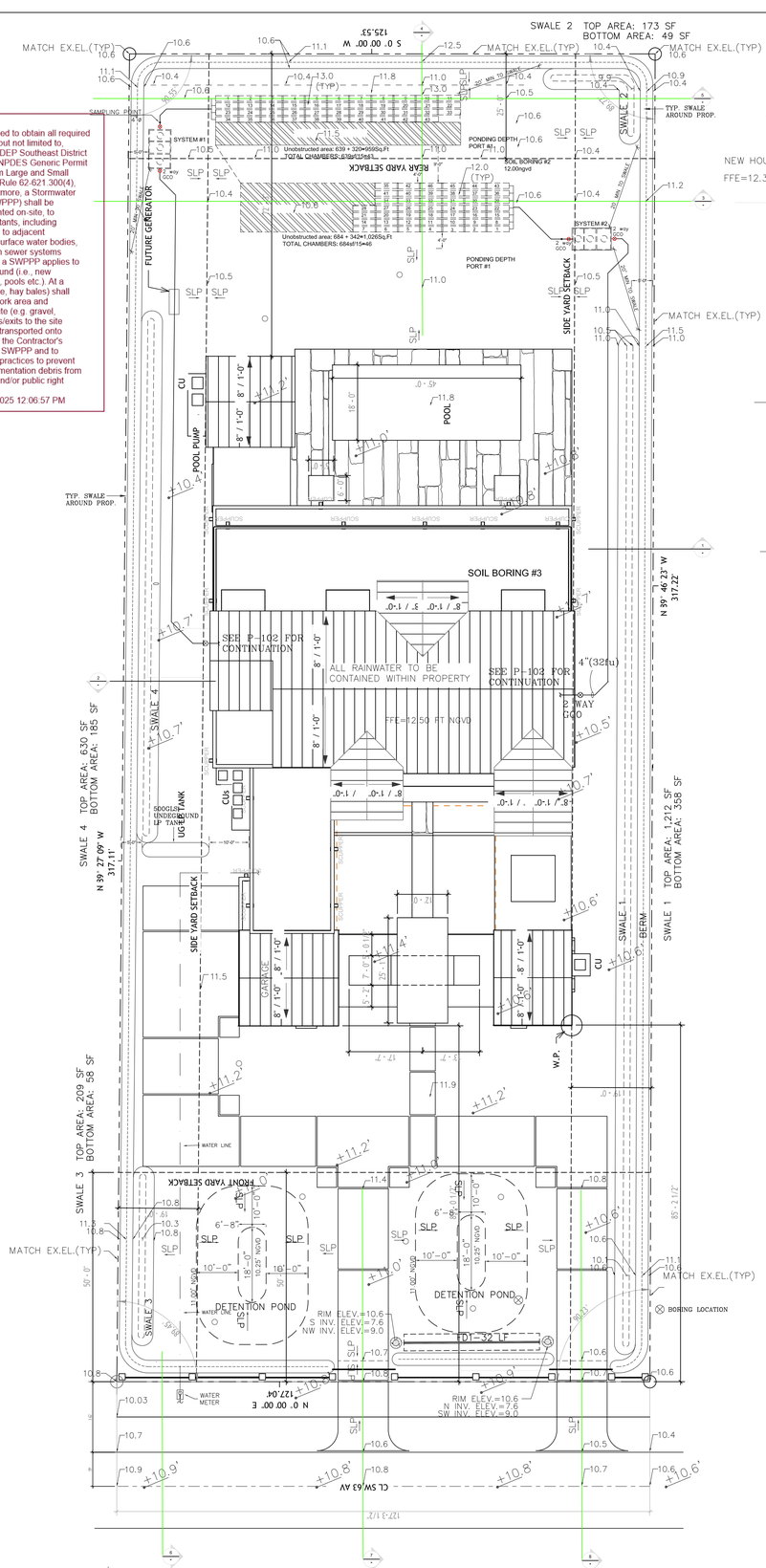
NOTES: PROPERTY LINE AND SWALE ELEVATIONS VARY. SEE PLAN.
THIS SECTION IS TYPICAL AND APPLIES ALONG THE WHOLE FRONT SWALE
MAINTAIN 6" TO 8" DEPTH ALONG THE FRONT SWALE

STORM DRAINAGE NOTES:

1. PROPERTY IS LOCATED IN ZONE X, INTERCEPTOR DRAINAGE SWALES AND BERMS AS INDICATED ALONG THE PROPERTY LINES WILL BE CONSTRUCTED ON-SITE, TO RETAIN THE 10 YEAR/24 HOUR (9.25 INCHES) STORMWATER RUNOFF INSIDE THE PROPERTY. ADEQUATE DRAINAGE SHALL BE PROVIDED, AND SURFACE RUNOFF WATER SHALL BE DIVERTED TO A STORM CONVEYANCE OR OTHER APPROVED POINT OF COLLECTION, IN ACCORDANCE WITH FBC AND VILLAGE OF PINECREST CODE OF ORDINANCES. ALL SITE DRAINAGE IS DESIGNED AND SHALL BE CONSTRUCTED IN SUCH A MANNER THAT RUNOFF RATES, VOLUME AND POLLUTANT LOADS DO NOT EXCEED PRE-DEVELOPED CONDITIONS AND PREVENTING FLOODING OF ADJACENT PROPERTIES AND PUBLIC RIGHT-OF-WAY.
2. CONTRACTOR TO FIELD-VERIFY ALL MEASUREMENTS, INCLUDING SETBACKS, EASEMENTS, R.O.W. SIZE AND LOCATIONS AND BE RESPONSIBLE FOR THE SAME. MATCH EXISTING ELEVATIONS AT PROPERTY LINE
3. PROVIDE EROSION AND SEDIMENTATION CONTROL B.M.Ps., ALONG THE EARTHWORK AND FOUNDATION PHASES OF CONSTRUCTION, CONSISTING OF PROTECTING INLETS IN THE VICINITY OF THE PROJECT AND PROVIDING PERIMETER CONTROLS (SILT FENCES) ON THE LOW ELEVATION AREAS UNTIL FULL STABILIZATION.
4. ZONE X. BFE = N/A. FFE=12.50 NGVD. ALL ELEVATIONS ARE N.G.V.D.

PUBLIC WORKS NOTES:

- NO FILL OF ANY KIND CAN BE BROUGHT ON SITE OR TO THE ROW OUTSIDE OF THE BUILDING FOOTPRINT.
- NO RUNOFF GENERATED FROM THE DRIVEWAY IS PERMITTED TO DISCHARGE DIRECTLY TO THE ROW OR ADJACENT PROPERTIES.
- THE ROW SWALE IS TO BE GRADED USING THE VILLAGE PW STANDARD.
- NO TREES ARE TO BE PLANTED IN THE ROW BEFORE A CONDITIONAL APPROVAL OF THE ROUGH GRADING OF THE SWALE HAS BEEN APPROVED BY PUBLIC WORKS.
- NO SHRUBS ARE TO BE PLANTED IN THE ROW AND ANY EXISTING SHRUBS ARE TO BE REMOVED.
- NO IRRIGATION, LIGHTING, OR ELECTRICAL COMPONENTS OF ANY KIND MAY BE INSTALLED IN THE ROW.
- ALL PROPOSED TREES IN THE ROW WILL BE PLANTED A MINIMUM OF 7' FROM THE EDGE OF PAVEMENT TO THE FACE OF THE TREE AND WILL BE OF A TYPE, KIND, AND SPACING AS APPROVED BY THE PUBLIC WORKS DEPARTMENT.
- ANY DECORATIVE D/W IN THE ROW SHALL HAVE AN 8"W X 12"D, 3,000-PSI, FIBER MESH CONCRETE HEADER CURB LOCATED BETWEEN THE ASPHALT AND THE PROPOSED D/W. THE EDGE OF THE HEADER CURB WILL BE A MINIMUM OF 10' FROM THE MIDDLE OF THE ADJACENT ROAD OR TO THE EDGE OF THE EXISTING ASPHALT EDGE, WHICHEVER IS GREATER. - NO MATERIALS OF ANY KIND WILL BE STORED FOR ANY LENGTH OF TIME ON THE PUBLIC SWALE.
- ALL WORK CONDUCTED IN THE ROW WILL IMPLEMENT THE APPLICABLE FDOT STANDARD INDEX 600 SERIES FOR MOT.
- ALL SIDEWALK REPLACEMENT WILL BE OPEN TO TRAFFIC WITHIN 48 HOURS OF THE SIDEWALK BEING CLOSED FOR DEMONSTRATION. THIS INCLUDES DEMOLITION OF EXISTING SIDEWALK, PLACING FORMS, PLACING AND FINISHING CONCRETE AND STRIPPING FORMS.
- NO PORTION OF THE PUBLIC ROW AND CAN BE ENCLOSED BY THE CONTRACTOR'S FENCE AT ANY TIME.
- ALL SOLD IN THE ROW WILL BE SAND GROWN 'EMPIRE ZOYSIA'.
- ALL DRIVEWAY APPROACHES WILL MEET ALL ADA REQUIREMENTS FOR OBSTRUCTIONS, BOTH VERTICAL AND HORIZONTAL AND FOR SLOPE, BOTH CROSS SLOPE AND LONGITUDINAL.




DPAD
Class V Dewatering: A Class V dewatering permit is required and shall be obtained prior to the removal of water from the excavation area, please contact dermwatercontrol@miamidade.gov to apply for the permit.
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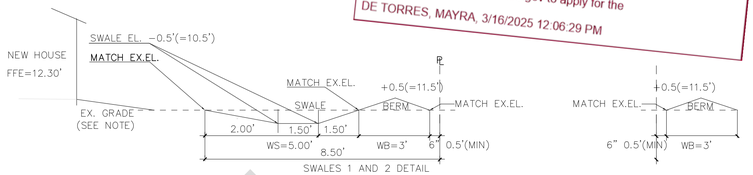
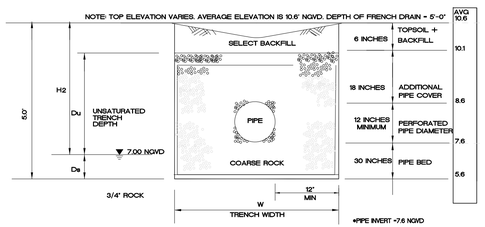
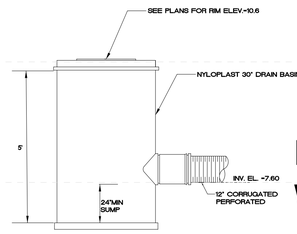



1 & 2 - SECTIONS 1, 2
TYPICAL SECTION DETAIL NTS

NOTE: EX. GRADE ELEV. VARIES=10.5' TO 11.0' NGVD (11.0' SHOWN)



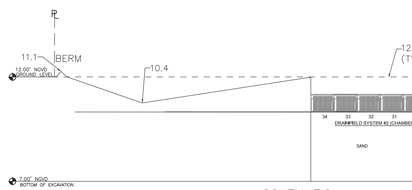

EXFILTRATION TRENCH DETAIL
NTS



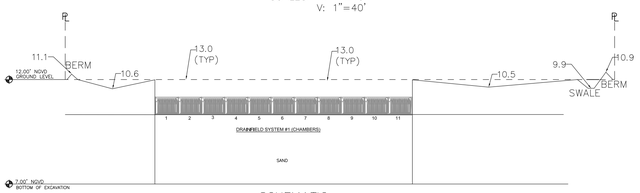

12" MIN. BALLAST ROCK
(REFER TO MANUFACTURER'S CUT SHEET INSTALLATION RECOMMENDATIONS)

NYLOPLAST CB SECTION (TYPICAL)
30" NYLOPLAST CATCH BASIN
NTS

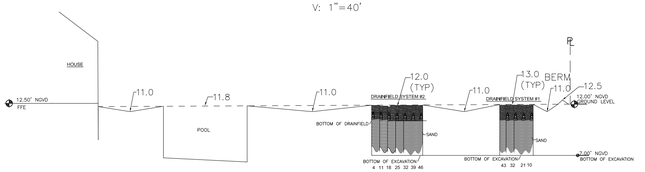
NOTE: SUBMIT SHOP DRAWINGS FOR STRUCTURES, FRAME AND GRATE



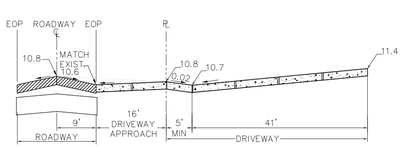

3 - SCHEMATIC SECTIONS 3
(LONGITUDINAL)
SCALES: H: 1"=10'
V: 1"=40'



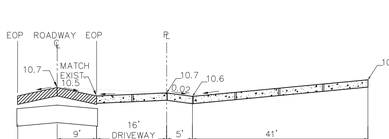

5 - SCHEMATIC SECTIONS 5
(LONGITUDINAL)
SCALES: H: 1"=10'
V: 1"=40'




4 - SCHEMATIC SECTION 4
(TRANSVERSE)
SCALES: NTS




7 - DRIVEWAY
SCALES: H: 1"=10'
V: 1"=40'




8 - DRIVEWAY
SCALES: H: 1"=10'
V: 1"=40'

DRAINAGE SITE PLAN
SCALE: 3/32"=1'

NOTES:
1. ALL ELEVATIONS ARE IN N.G.V.D OF 1929
2. ELEVATIONS VARY LINEARLY BETWEEN PROPOSED ELEVATIONS ALONG SWALES..

NEW RESIDENCE

# GS JPD 10635 LLC

10635 SW 63 AV
MIAMI, FL

SEAL


TSUR CONSULTING, INC.
FBPE REGISTRY # 33523
21011 NE 32nd. Avenue
AVENTURA, FL. 33180
PHONE: (305) 332-8881

RAUL WAINER, PE
STATE OF FLORIDA PE 0054756


Raul Wainer
Digitally signed by Raul Wainer
Date: 2025.03.12 21:52:25 -04'00'

RAUL WAINER LICENSE No 54756 STATE OF FLORIDA PROFESSIONAL ENGINEER


BALLI-TRAUTMAN ARCHITECTS LLC -AA26002968
GIORGIO LUIGI BALLI -AR13951
DAVID SCOTT TRAUTMAN -AR15045


REVISIONS

| NO. | DESC | DATE |
|---|---|---|
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

SEAL

BALLI-TRAUTMAN
ARCHITECS, LLC.

| | |
|---|---|
| JOB NUMBER: | |
| CHECKED BY: | DK |
| ISSUE DATE: | Issue Date |
| SCALE: | AS NOTED |

SHEET TITLE

# PAVING, GRADING AND DRAINAGE PLAN
## PLAN VIEW

SHEET NUMBER

# C-1


COPYRIGHT BALLI-TRAUTMAN ARCHITECTS, LLC
1533 SUNSET DRIVE SUITE 101, CORAL GABLES, FL 33143



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C-1 RWK 3.14.2025.pdf

# MIAMI-DADE COUNTY

## DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES

**http://www.miamidade.gov/building/home.asp**

**1/14/2025 12:44:22 PM**

| | |
|---|---|
| Contact Name: | Julian Cardona |
| Contact Email: | PERMITEXPEDITORS@GMAIL.COM |
| Tracking Number: | 2025004680 |
| Reviews to rework: | DERM |
| Comments: | |

# MIAMI-DADE COUNTY

## DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES

**http://www.miamidade.gov/building/home.asp**

**12/5/2024 1:39:34 PM**

| | |
|---|---|
| Contact Name: | Julian Cardona |
| Contact Email: | PERMITEXPEDITORS@GMAIL.COM |
| Tracking Number: | UP24113834 |
| Reviews to rework: | INPI |
| Comments: | |

# MIAMI-DADE COUNTY

## DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES

**http://www.miamidade.gov/building/home.asp**

**2/12/2025 7:45:08 AM**

Contact Name:

Contact Email: LLIRELKA.RODRIGUEZ2@MIAMIDADE.GOV

Tracking Number: 2025004680

Reviews to rework: OTDS

Comments:

# MIAMI-DADE COUNTY

## DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES

**http://www.miamidade.gov/building/home.asp**

**3/12/2025 8:38:42 AM**

Contact Name:

Contact Email: CAROLINA.CALVO@MIAMIDADE.GOV

Tracking Number: 2025004680

Reviews to rework: OTDS

Comments:

# MIAMI-DADE COUNTY

## DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES

**http://www.miamidade.gov/building/home.asp**

**3/14/2025 12:00:46 PM**

| | |
|---|---|
| Contact Name: | Julian Cardona |
| Contact Email: | PERMITEXPEDITORS@GMAIL.COM |
| Tracking Number: | 2025004680 |
| Reviews to rework: | DPAD,OTDS |
| Comments: | |

# MIAMI-DADE COUNTY

## DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES

**http://www.miamidade.gov/building/home.asp**

**6/26/2025 8:52:39 AM**

| | |
|---|---|
| Contact Name: | Julian Cardona |
| Contact Email: | PERMITEXPEDITORS@GMAIL.COM |
| Tracking Number: | 2025004680 |
| Reviews to rework: | HRS |
| Comments: | |

Miami-Dade Department of Regulatory and Economic Resources

# CONTACT INFORMATION FOR PERMIT APPLICATION

| FIRST NAME *(print clearly)* | LAST NAME *(print clearly)* |
|---|---|
| JULIAN A. | CARDONA |
| **MOBILE PHONE** | **OFFICE/HOME PHONE** |
| (786) 539-9008 | (786) 252-3770 |

**EMAIL** *(required so you can be notified on the status of your plans)*

PERMITEXPEDITORS@GMAIL.COM

**COMMENTS** *(If you are submitting a municipal plan, please provide the municipal process number(s) and ensure the municipal application is in the office set of plans.)*

New SFR

## PLANS *(check all that apply)*

***Please indicate if plans qualify for the following expedited plan reviews:***

☐ GOV'T PROJECT/DEPT_____ ☐ GREEN BLDG* *(new construction only)* ☐ PACE PROJECT*

☐ AFFORDABLE/WORKFORCE HOUSING* ☐ ECONOMIC SIGNIFICANCE* ☐ CONCIERGE

***(*Pursuant to Ordinace 99-140; Ordinace 05-115; and Ordinance 08-51. Project may have additional requirements.)***

### REQUESTED PLAN REVIEWS *(check all that apply for rework only)*

| | | | | | |
|---|---|---|---|---|---|
| ☐ ALL | ☐ BLDG/HCAP | ☐ ELEC | ☐ ENRG | ☐ FIRE | ☐ ROOF |
| ☐ LANDSCAPING | ☐ MECH | ☐ PLUM | ☐ PWKS | ☐ PWCC | ☐ SIGN |
| ☐ STRU | ☐ ZNPR | ☐ WASD | ☐ PWIF | ☐ LPGX | |
| ☐ DERM CORE | ☐ DERM AIR | ☐ DERM AIRPORT | ☐ DERM ASBESTOS | ☐ DERM COASTAL | ☐ DERM FLOOD |
| ☐ DERM GREASE | ☐ DERM INDUSTRIAL | ☐ DERM PAVING & DRAINAGE | ☐ DERM POLLUTION | ☐ DERM PRE-TREATMENT | ☐ DERM SOLID WASTE |
| ☐ DERM TANKS | ☐ DERM TREES | ☐ DERM WATER TREATMENT | ☐ DERM WETLANDS | | |

### OPTIONAL PLAN REVIEWS *(check all that apply)*

☐ BLDG ☐ ELEC ☐ MECH ☐ PLUM ☐ STRU

### OPR DERM **INITIAL** REVIEWS *(check all that apply)*

☐ DERM CORE ☐ DERM SPECIALTY *(You will be notified after core review is complete for additional fees)*

### OPR DERM **REWORK** *(OPR for specialty only available at PIC)*

| | | | | | |
|---|---|---|---|---|---|
| ☐ TREE | ☐ GREASE | ☐ ASBESTOS | ☐ COASTAL | ☐ AIR | ☐ PAVING & DRAINAGE |
| ☐ TANKS | ☐ INDUSTRIAL | ☐ WETLAND | ☐ PRE-TREATMENT | ☐ CORE | ☐ FLOOD |

## FOR OFFICE USE ONLY

*To be completed by Permit and Occupancy Representative or Plans Processing Specialist*

| APPLICATION DATE | CLERK NAME | ARRIVAL TIME |
|---|---|---|
| 12/4/2024 | | |
| **PROCESS NUMBER** | **PROCESS NUMBER** | **PROCESS NUMBER** |
| | | |

☐ RE-ISSUE ☐ PLAN REVISION ☐ REWORK ☐ SHOP DRAWING



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Miami-Dade Department of Regulatory and Economic Resources

# CONTACT INFORMATION FOR PERMIT APPLICATION

| FIRST NAME *(print clearly)* | LAST NAME *(print clearly)* |
|---|---|
| ROBERTO | RODRIGUEZ |
| **MOBILE PHONE** | **OFFICE/HOME PHONE** |
| 786 236-0539 | 305 598-8266 |

**EMAIL** *(required so you can be notified on the status of your plans)*
southernsepticcorporation@gmail.com

**COMMENTS** (*If you are submitting a municipal plan, please provide the municipal process number(s) and ensure the municipal application is in the office set of plans.)*

PLEASE DO NOT CHANGE THE ORIGINAL CONTACT INFO IN THE SYSTEM.

**M2025004680**

## PLANS *(check all that apply)*

***Please indicate if plans qualify for the following expedited plan reviews:***

☐ GOV'T PROJECT/DEPT_____ ☐ GREEN BLDG* *(new construction only)* ☐ PACE PROJECT*
☐ AFFORDABLE/WORKFORCE HOUSING* ☐ ECONOMIC SIGNIFICANCE* ☐ CONCIERGE

***(*Pursuant to Ordinance 99-140; Ordinance 05-115; and Ordinance 08-51. Project may have additional requirements.)***

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| | | | | | |
|---|---|---|---|---|---|
| ☐ ALL | ☐ BLDG/HCAP | ☐ ELEC | ☐ ENRG | ☐ FIRE | ☐ ROOF |
| ☐ LANDSCAPING | ☐ MECH | ☐ PLUM | ☐ PWKS | ☐ PWCC | ☐ SIGN |
| ☐ STRU | ☐ ZNPR | ☐ WASD | ☐ PWIF | ☐ LPGX | ☐ SHOP DRAWING |
| ☐ DERM CORE | ☐ DERM AIR | ☐ DERM AIRPORT | ☐ DERM ASBESTOS | ☐ DERM COASTAL | ☐ DERM FLOOD |
| ☐ DERM GREASE | ☐ DERM INDUSTRIAL | ☐ DERM PAVING & DRAINAGE | ☐ DERM POLLUTION | ☐ DERM PRE-TREATMENT | ☐ DERM SOLID WASTE |
| ☐ DERM TANKS | ☐ DERM TREES | ☐ DERM WATER TREATMENT | ☐ DERM WETLANDS | ☐ PERMIT BY AFFIDAVIT CHECK | ☐ SHORT TERM EVENT AFFIDAVIT CHECK |
| ☐ DOH/HRS | | | | | |

☒ DERM OSTDS

### OPTIONAL PLAN REVIEWS *(check all that apply)*

☐ BLDG ☐ ELEC ☐ MECH ☐ PLUM ☐ STRU

### OPR DERM **INITIAL** REVIEWS *(check all that apply)*

☐ DERM CORE ☐ DERM SPECIALTY *(You will be notified after core review is complete for additional fees)*

### OPR DERM **REWORK** *(OPR for specialty only available at PIC)*

| | | | | | |
|---|---|---|---|---|---|
| ☐ TREE | ☐ GREASE | ☐ ASBESTOS | ☐ COASTAL | ☐ AIR | ☐ PAVING & DRAINAGE |
| ☐ TANKS | ☐ INDUSTRIAL | ☐ WETLAND | ☐ PRE-TREATMENT | ☐ CORE | ☐ FLOOD |

## FOR OFFICE USE ONLY

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| APPLICATION DATE | CLERK NAME | ARRIVAL TIME |
|---|---|---|
| PROCESS NUMBER | PROCESS NUMBER | PROCESS NUMBER |

☐ RE-ISSUE ☐ PLAN REVISION ☐ REWORK ☐ SHOP DRAWING



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Miami-Dade Department of Regulatory and Economic Resources

# CONTACT INFORMATION FOR PERMIT APPLICATION

| FIRST NAME *(print clearly)* | LAST NAME *(print clearly)* |
|---|---|
| ROBERTO | RODRIGUEZ |
| **MOBILE PHONE** | **OFFICE/HOME PHONE** |
| 786 236-0539 | 305 598-8266 |

**EMAIL** *(required so you can be notified on the status of your plans)*
southernsepticcorporation@gmail.com

**COMMENTS** (*If you are submitting a municipal plan, please provide the municipal process number(s) and ensure the municipal application is in the office set of plans.)*

PLEASE DO NOT CHANGE THE ORIGINAL CONTACT INFO IN THE SYSTEM.

**M2025004680**

## PLANS *(check all that apply)*

***Please indicate if plans qualify for the following expedited plan reviews:***

☐ GOV'T PROJECT/DEPT_____ ☐ GREEN BLDG* *(new construction only)* ☐ PACE PROJECT*
☐ AFFORDABLE/WORKFORCE HOUSING* ☐ ECONOMIC SIGNIFICANCE* ☐ CONCIERGE

***(*Pursuant to Ordinance 99-140; Ordinance 05-115; and Ordinance 08-51. Project may have additional requirements.)***

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| | | | | | |
|---|---|---|---|---|---|
| ☐ ALL | ☐ BLDG/HCAP | ☐ ELEC | ☐ ENRG | ☐ FIRE | ☐ ROOF |
| ☐ LANDSCAPING | ☐ MECH | ☐ PLUM | ☐ PWKS | ☐ PWCC | ☐ SIGN |
| ☐ STRU | ☐ ZNPR | ☐ WASD | ☐ PWIF | ☐ LPGX | ☐ SHOP DRAWING |
| ☐ DERM CORE | ☐ DERM AIR | ☐ DERM AIRPORT | ☐ DERM ASBESTOS | ☐ DERM COASTAL | ☐ DERM FLOOD |
| ☐ DERM GREASE | ☐ DERM INDUSTRIAL | ☐ DERM PAVING & DRAINAGE | ☐ DERM POLLUTION | ☐ DERM PRE-TREATMENT | ☐ DERM SOLID WASTE |
| ☐ DERM TANKS | ☐ DERM TREES | ☐ DERM WATER TREATMENT | ☐ DERM WETLANDS | ☐ PERMIT BY AFFIDAVIT CHECK | ☐ SHORT TERM EVENT AFFIDAVIT CHECK |
| ☐ DOH/HRS | | | | | |

☒ DERM OSTDS

### OPTIONAL PLAN REVIEWS *(check all that apply)*

☐ BLDG ☐ ELEC ☐ MECH ☐ PLUM ☐ STRU

### OPR DERM **INITIAL** REVIEWS *(check all that apply)*

☐ DERM CORE ☐ DERM SPECIALTY *(You will be notified after core review is complete for additional fees)*

### OPR DERM **REWORK** *(OPR for specialty only available at PIC)*

| | | | | | |
|---|---|---|---|---|---|
| ☐ TREE | ☐ GREASE | ☐ ASBESTOS | ☐ COASTAL | ☐ AIR | ☐ PAVING & DRAINAGE |
| ☐ TANKS | ☐ INDUSTRIAL | ☐ WETLAND | ☐ PRE-TREATMENT | ☐ CORE | ☐ FLOOD |

## FOR OFFICE USE ONLY

*To be completed by Permit and Occupancy Representative or Plans Processing Specialist*

| APPLICATION DATE | CLERK NAME | ARRIVAL TIME |
|---|---|---|
| PROCESS NUMBER | PROCESS NUMBER | PROCESS NUMBER |

☐ RE-ISSUE ☐ PLAN REVISION ☐ REWORK ☐ SHOP DRAWING



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# GS JPD 10635 LLC
# 10635 SW 63 Ave
# Miami, Florida 33133

## Drainage Report

**March 2025**

Raul Wainer

Digitally signed by Raul Wainer
Date: 2025.03.12 19:36:10 -04'00'

**Prepared for:**

**GIORGIO BALLI ARCHITECTS, LLC**
**1533 Sunset Drive, Suite 101**
**Coral Gables, Florida 33143**

**Approved by:** **Date:**

**03-12-25**

**Raul Wainer, P.E.**
**Reg. Engineer No.: 54756**
**Tsur Consulting, Inc.**
**21011 NE 32nd Avenue**
**Aventura, FL 33180**

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Drainage Report RWK 3.14.2025.pdf

This project proposes the replacement of an existing 2-story residetial building with pool, pool deck and pervious brick pavers driveway with a new 2-storyhouse, pool, pool deck and pervious brick pavers driveway .Work to be analyzed in this report is limited to the parcel itself.
The purpose of this report is to provide drainage calculations in accordance with the SFWMD Volume II of the 2014 SFWMD ERP Applicant's Handbook, Rules 40E-4.091(1) and 62-330.010, F.A.C.. to achieve the following 2 desing criteria.
1- The new residence Pos- Development runoff < or = to Pre-Development runoff
2- The Post-Development maximum stage <or= to the Pre-Development maximums stage or provide retaining wall or berm along the whole perimeter and trench drain to capture the runoff at the driveway gate.
This is not a phased project.

Given: Areas of proposed construction, pervious and impervious areas
Find: Runnoffs for the 5-YR-1H HR event and 25 YR-24 HR event
Using: Criteria of SFWMD Volume IV
All Elevations are in feet and refer to N.G.V.D. 1929

**POST-DEVELOPMENT DRAINAGE CALCULATIONS**

| Post Development Areas and Elevations | | | | |
|---|---|---|---|---|
| | AREAS | | ELEVATIONS | |
| Location | SF | Acre | From | To |
| Bldg Footprint | 7180 | 0.165 | 12.50 | 12.50 |
| Pool + 50% Pervious Pavers | 4717 | 0.108 | 10.50 | 11.80 |
| Guestroom+ Cabana | 884 | 0.020 | 12.00 | 12.00 |
| Total Impervious | 12781 | 0.293 | 10.50 | 12.50 |
| Septic System 1 and 2 | 2074 | 0.048 | 10.50 | 11.80 |
| Total Pervious | 25145 | 0.577 | 10.20 | 10.50 |
| Lot Area | 40000 | 0.918 | 10.20 | 12.50 |

$\mathbf{Area_{drainage}} := 40000\,\mathbf{ft}^2$ $\quad \mathbf{Area_{drainage}} = 0.92\cdot\mathbf{acre}$

$\mathbf{Area_{impervious}} := 12781\,\mathbf{ft}^2$ $\quad \mathbf{Area_{impervious}} = 0.293\cdot\mathbf{acre}$

$\mathbf{Area_{septicsys}} := 2074\cdot\mathbf{ft}^2$ $\quad \mathbf{Area_{septicsys}} = 0.05\cdot\mathbf{acre}$

$\mathbf{Area_{pervious}} := \mathbf{Area_{drainage}} - \mathbf{Area_{impervious}} - \mathbf{Area_{septicsys}}$ $\quad \mathbf{Area_{pervious}} = 25145\,\mathbf{ft}^2$

$\mathbf{Area_{Bldg}} = 7180\,\mathbf{ft}^2$ $\quad \mathbf{Area_{Bldg}} = 0.165\cdot\mathbf{acre}$

Define percent impervious, $\text{Percent}_I$

$$\mathbf{Percent_I} := \frac{\mathbf{Area_{impervious}} + \mathbf{Area_{septicsys}}}{\mathbf{Area_{drainage}}} = 0.37$$



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**Drainage Report RWK 3.14.2025.pdf**

$\mathbf{Elev_{avg}} := 11\mathbf{ft}$ $\mathbf{Water_Table_{ELEV}} .. 5.00\mathbf{ft}$ $\mathbf{Water_Table_{wet}} := (5.00 - 0)\mathbf{ft}$

$\mathbf{Depth_{wtable}} := \mathbf{Elev_{avg}} - \mathbf{Water_Table_{wet}} = 6\,\mathbf{ft}$

$\mathbf{DAS} := 10.9 \cdot \mathbf{in}$

Reduce DAS by 25% for compaction

$\mathbf{DAS_r} := \mathbf{DAS} \cdot 0.75$

Calculate soil storage, S

$\mathbf{DAS_r} = 8.18 \cdot \mathbf{in}$

$\mathbf{S} := \mathbf{DAS_r} \cdot (1 - \mathbf{Percent_I})$

$\mathbf{S} = 5.14 \cdot \mathbf{in}$

**Analyze Industrial Pre-treatment**

This tract is not industrial. Pre-treatment is not required in accordance with Section 5.2.2 of the Basis of Review of the SFWMD Volume IV.

**Analyze Water Quality (exempt for residential)**

The volume of the detention area is determined by taking the average of the top surface area and bottom surface area multiplied by the depth.

$$\mathbf{Volume_{pond}} := \left[\left(\frac{920 + 109}{2} \cdot 0.75\right) \cdot 2 + 0 \cdot \left(\frac{0 + 0}{2} \cdot 1.0\right)\right] \cdot \mathbf{ft}^3 = 771.75\,\mathbf{ft}^3$$

$$\mathbf{Volume_{swale}} := [(1212 + 358) + (173 + 49) + (209 + 58) + (630 + 185)] \cdot \frac{1}{2} \cdot 0.5\mathbf{ft}^3 = 0.2 \cdot \mathbf{acre} \cdot \mathbf{in}$$

$\mathbf{Volume_{swale}} = 718.5 \cdot \mathbf{ft}^3$

$\mathbf{Vol_{DryDetention}} := \mathbf{Volume_{swale}} + \mathbf{Volume_{pond}} = 1490.25\,\mathbf{ft}^3$ $\mathbf{Vol_{DryDetention}} = 0.41 \cdot \mathbf{acre} \cdot \mathbf{in}$

**5 YR- 1 H RAIN** **Storm Calculation**: $\mathbf{P5_1} := 3.3\mathbf{in}$

$$\mathbf{Q5_1} := \frac{\left[\left(\mathbf{P5_1}\right) - 0.2\mathbf{S}\right]^2}{\left(\mathbf{P5_1} + 0.8\mathbf{S}\right)}$$ $\mathbf{Q5_1} = 0.7 \cdot \mathbf{in}$

Initial Runoff Volume generated: $\mathbf{V5_1} := \mathbf{Q5_1} \cdot \mathbf{Area_{drainage}}$ $\mathbf{V5_1} = 0.05 \cdot \mathbf{acre} \cdot \mathbf{ft}$ $\mathbf{V5_1} = 0.64 \cdot \mathbf{acre} \cdot \mathbf{in}$

$\mathbf{V_{treat}} := \mathbf{V5_1} = 0.05 \cdot \mathbf{acre} \cdot \mathbf{ft}$

$\mathbf{V_{trench_required}} := \mathbf{V_{treat}} - \mathbf{Vol_{DryDetention}} = 831.86\,\mathbf{ft}^3$ $\mathbf{V_{trench_required}} = 0.23 \cdot \mathbf{acre} \cdot \mathbf{in}$

$\mathbf{V_{trench_provided}} = 0.69 \cdot \mathbf{acre} \cdot \mathbf{in}$ (Refer to the EXFILTRATION TRENCH DESIGN section below.)

Vtrench_provided=0.69 acre.in > Vtrench_req=0.23 acre.in OK
All Surface runoff for the 5 YR- 1H Rain event will be retained on site that will be provided with a perimeter berm along the property line, except at the driveway entrances that have a inward slope away from the property line.



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**Drainage Report RWK 3.14.2025.pdf**

**10 YR- 24 H RAIN Storm Calculation**: $P10_{24} := 9.25\,in$

$$Q_{10} := \frac{\left[\left(P10_{24}\right) - 0.2S\right]^2}{\left(P10_{24} + 0.8S\right)} = 5.06\cdot in$$

Post-Development Runoff

$V_{10.post} := Q_{10}\cdot Area_{drainage}$ $V_{10.post} = 16865.88\,ft^3$ $V_{10.post} = 0.387\cdot acre\cdot ft$

$V_{10.pre} := 15910.64\ ft^3$ $DeltaV_{post.minus.pre} := V_{10.post} - V_{10.pre} = 955.24\,ft^3$

Calculate 1 inch over the entire site

$V_1 := Area_{drainage}\cdot 1in$ $V_1 = 3333.33\,ft^3$

$V_1 = 0.92\cdot acre\cdot in$

Calculate 2.5 inches times percent impervious

$V_{2.5} := Area_{drainage}\cdot 2.5in\cdot Percent_I$

$V_{2.5} = 0.85\cdot acre\cdot in$ $V_{2.5} = 3094.79\,ft^3$

Difference between pre and post runoff volumes

$DeltaV_{post.minus.pre} = 955.24\,ft^3$

Determine which of the above controls and state that amount as $V_{treat}$.

$V_{treat} := if\left(V_1 \geq V_{2.5}, V_1, V_{2.5}\right)$ $V_{treat} = 3333.33\cdot ft^3$

$V_{treat} = 0.92\cdot acre\cdot in$

$V_{trench_required} := V_{treat} - Vol_{DryDetention} = 1843.08\,ft^3$ $V_{trench_required} = 0.51\cdot acre\cdot in$

An exfiltration trench is required.

EXFILTRATION TRENCH DESIGN
SFWMD - CASE 1

Description of Variables:

Lreq = LENGTH OF TRENCH REQUIRED/REQUESTED (FEET)
V = VOLUME TREATED (ACRE-INCHES)
W =TRENCH WIDTH (FEET)
K = HYDRAULIC CONDUCTIVITY (CFS/FT^2-FT.HEAD)
H2= DEPTH TO WATER TABLE (FEET)
Du= NON-SATURATED TRENCH DEPTH (FEET)
DS= SATURATED TRENCH DEPTH (FEET)

$V := 0.51$

$W := 4$

$K := 0.000579$

$H_2 := 10.6 - 7 = 3.6$

$Du := H_2 - 0.5 = 3.1$

$Ds := 5 - H_2 = 1.4$

French Drain calculation: Solving for L gives,



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$$L_{req} := \frac{V}{K\cdot\left(H_2\cdot W + 2\cdot H_2\cdot Du - Du^2 + 2\cdot H_2\cdot Ds\right) + \left(1.39\cdot 25^{-4}\right)\cdot W\cdot Du} \qquad L_{req} = 24$$

LENGTH OF TRENCH REQUIRED =25 L.F.
LENGTH OF TRENCH PROVIDED = 32 L.F. $L_{provided} := 32$

French Drain provided: 32 ft x 4ft

$$V_{provided} := L_{provided}\cdot\left[K\cdot\left(H_2\cdot W + 2\cdot H_2\cdot Du - Du^2 + 2\cdot H_2\cdot Ds\right) + \left(1.39\cdot 25^{-4}\right)\cdot W\cdot Du\right]\cdot acre\cdot in$$

$V_{provided} = 0.69\cdot acre\cdot in$ $\quad V_{provided} = 2506.4\,ft^3$ $\quad V_{trench} := V_{provided}$

Total Dry Detention Volume Provided by swales, retention ponds and Exfiltation Trench

$TotalVol_{DryDet} := Vol_{DryDetention} + V_{trench} = 3996.65\,ft^3$ **>** $V_{2.5} = 3094.79\,ft^3$ **OK**

Final runoff after storage capacity:

$Vf := V_{10.post} - V_{2.5} = 0.32\cdot acre\cdot ft$ $\quad Vf = 13771.08\,ft^3$

**Site Storage/Stage Distribution**

| Post Development Areas and Elevations | | | | |
|---|---|---|---|---|
| | AREAS | | ELEVATIONS | |
| Location | SF | Acre | From | To |
| Bldg Footprint | 7180 | 0.165 | 12.50 | 12.50 |
| Pool + 50% Pervious Pavers | 4717 | 0.108 | 10.50 | 11.80 |
| Guestroom+ Cabana | 884 | 0.020 | 12.00 | 12.00 |
| Total Impervious | 12781 | 0.293 | 10.50 | 12.50 |
| Septic System 1 and 2 | 2074 | 0.048 | 10.50 | 11.80 |
| Total Pervious | 25145 | 0.577 | 10.20 | 10.50 |
| Lot Area | 40000 | 0.918 | 10.20 | 12.50 |

| Stage | Storage* |
|---|---|
| (ft NGVD) | (ac-ft) |
| 10 | 0 |
| 10.5 | 0.09 |
| 10.9 | 0.32 |
| 11 | 0.39 |
| * From attached Cascade calculation | |



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**Storage Stage Calculation**:

Pre-Dev Initial Runoff Volume generated: $\mathbf{V_{10.pre} = 0.37 \cdot acre \cdot ft}$ (no Dry Detention)

Pre-Developement Final Stage: 11.14 ft NGVD (per attached Cascade Calculations)

Post Dev Initial Runoff Volume generated: $\mathbf{V_{10.post} = 0.39 \cdot acre \cdot ft}$ (no Dry Detention)

Post Dev Initial Runoff Volume generated: $\mathbf{Vf = 0.32 \cdot acre \cdot ft}$ (with Dry Detention)

Post-Development Final Stage: 10.9 ft NGVD (per attached Cascade Calculations)

**Conclusions:**

The drainage calculations and the SFWMD "cascade" software indicates that the:
Post-Development Runoff - Storage capacity = 0.32 acre.ft
Post-Development Final Stage= 10.9 ft
Pre-Developement Final Stage = 11.14 ft

**Post-Development Runoff - Storage Capacity < Pre-Development Runoff - Storage Capacity OK**

**Post-Development Final Stage < Pre-Development Final Stage. Provide berm with minimum top elevation 6 inch (0.5-ft) along and above property line elevation OK**



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Project Name: 10635 McDonough Residence
Reviewer: Raul Wainer, PE
Project Number: 2024
  Period  Begin: Nov 11, 2024;0000 hr  End: Nov 12, 2024;0000 hr  Duration: 24 hr
  Time Step: 0.2 hr,  Iterations: 10

Basin 1: 10635 SW 63 Ave

  Method: Santa Barbara Unit Hydrograph
  Rainfall Distribution: SFWMD - 24 hr
  Design Frequency: 10 year
  1 Day Rainfall: 9.25 inches
  Area: 0.918003 acres
  Ground Storage: 5.68 inches
  Time of Concentration: 0.25 hours
  Initial Stage: 10 ft NGVD

| Stage (ft NGVD) | Storage (acre-ft) |
|---|---|
| 10.00 | 0.00 |
| 10.50 | 0.04 |
| 11.00 | 0.27 |
| 11.10 | 0.34 |
| 11.14 | 0.37 |
| 11.18 | 0.40 |
| 11.20 | 0.41 |

STRUCTURE MAXIMUM AND MINIMUM DISCHARGES

| Struc | Max (cfs) | Time (hr) | Min (cfs) | Time (hr) |
|---|---|---|---|---|

BASIN MAXIMUM AND MINIMUM STAGES

| Basin | Max (ft) | Time (hr) | Min (ft) | Time (hr) |
|---|---|---|---|---|
| 10635 SW 63 Av | 11.14 | 24.00 | 10.00 | 0.00 |

BASIN WATER BUDGETS (all units in acre-ft)

| Basin | Total Runoff | Structure Inflow | Structure Outflow | Initial Storage | Final Storage | Residual |
|---|---|---|---|---|---|---|
| 10635 SW 63 Av | 0.36 | 0.00 | 0.00 | 0.00 | 0.36 | 0.00 |

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ALL STATE ENGINEERING

**All State Engineering & Testing Consultants, Inc.**

TESTING LABORATORIES-ENGINEERS-INSPECTION SERVICES-CHEMISTS-DRILLING-ENVIRONMENTAL SERVICES

12949 W Okeechobee Rd, Unit 4 , Hialeah Gardens, FL 33018 Office: 305-888-3373 Fax: 305-888-7443 info@allstateengineering.com

# PERCOLATION TEST

## USUAL OPEN HOLE - CONSTANT HEAD

| | | | |
|---|---|---|---|
| **DATE:** | August 01, 2024 | **Test Number:** | P-1 |
| **CLIENT:** | Balli- Trautman Architects | | |
| **CLIENT ADDRESS:** | 1533 Sunset Drive, Miami, FL 33143 Suite # 101 | | |
| **PROJECT:** | SFR 11,419 Sqrft | | |
| **PROJECT ADDRESS:** | 10635 SW 63rd Avenue, Pinecrest, FL 33156 | | |
| **LOCATION OF TEST:** | West Side | | |

| INTERVAL | ELAPSED TIME (MINUTES) | GPM |
|---|---|---|
| 1 | 1:00 | 5 |
| 2 | 1:00 | 5 |
| 3 | 1:00 | 5 |
| 4 | 1:00 | 5 |
| 5 | 1:00 | 5 |
| 6 | 1:00 | 5 |
| 7 | 1:00 | 5 |
| 8 | 1:00 | 5 |
| 9 | 1:00 | 5 |
| 10 | 1:00 | 5 |

**DEPTH OF HOLE :** 5 feet **DIA. OF HOLE :** 0.5 feet **PERC. RATE:** 5.0 GPM

**DEPTH OF WATER TABLE BELOW GROUND SURFACE :** 4 feet

**SATURATED HOLE DEPTH :** 1 feet **STABILIZED FLOW RATE:** 0.011140

**k-VALUE:** 5.79E-04

## SUBSURFACE INVESTIGATION

| Depth Below Ground Surface | Soil Description |
|---|---|
| 0'-0" to 3'-0" | Dark Grey Sand with Rocks Pieces |
| 3'-0" to 6'-0" | Tan Sand with Lime Sand Fragments |
| | |

Field Technician: TH
Typed by: AS

Respectfully Submitted,

JOHN J. BUSCHER LICENSE NO. 41844 STATE OF FLORIDA PROFESSIONAL ENGINEER

John Buscher PE # 41844
**All State Engineering &Testing Consultants, Inc.**

Any municipal permit fees, filing fees, the required land survey, and reports are to be submitted as the confidential property of clients. Authorization for publication of statements, conclusions or extracts from or regarding our reports is reserved pending our written approval.

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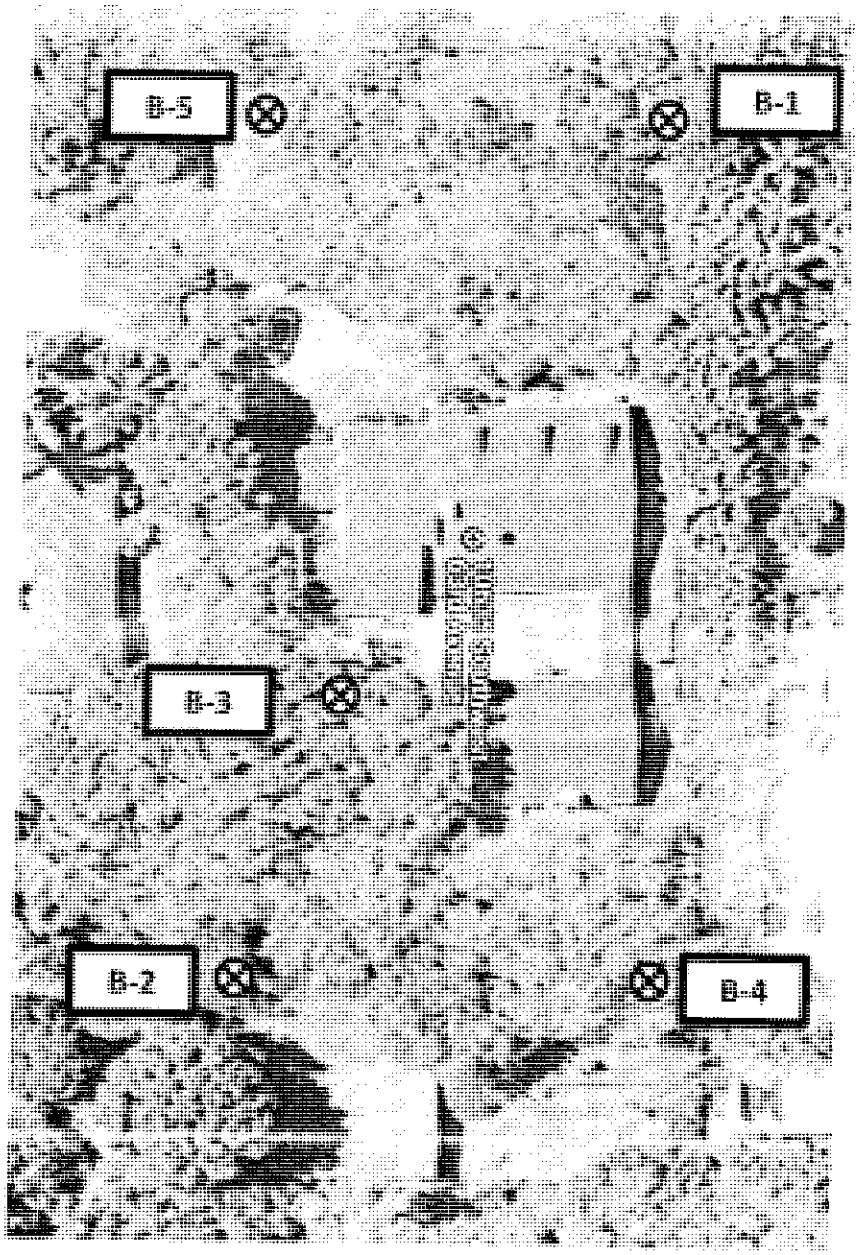
12949 West Okeechobee Rd, Hialeah Gardens, Florida 33018 / Phone: 305-888-3373 Fax: 305-888-7443

# Boring Location Map

## 10635 SW 63rd Avenue, Pinecrest, FL 33156




N

**Legend**
⊗ Boring Location

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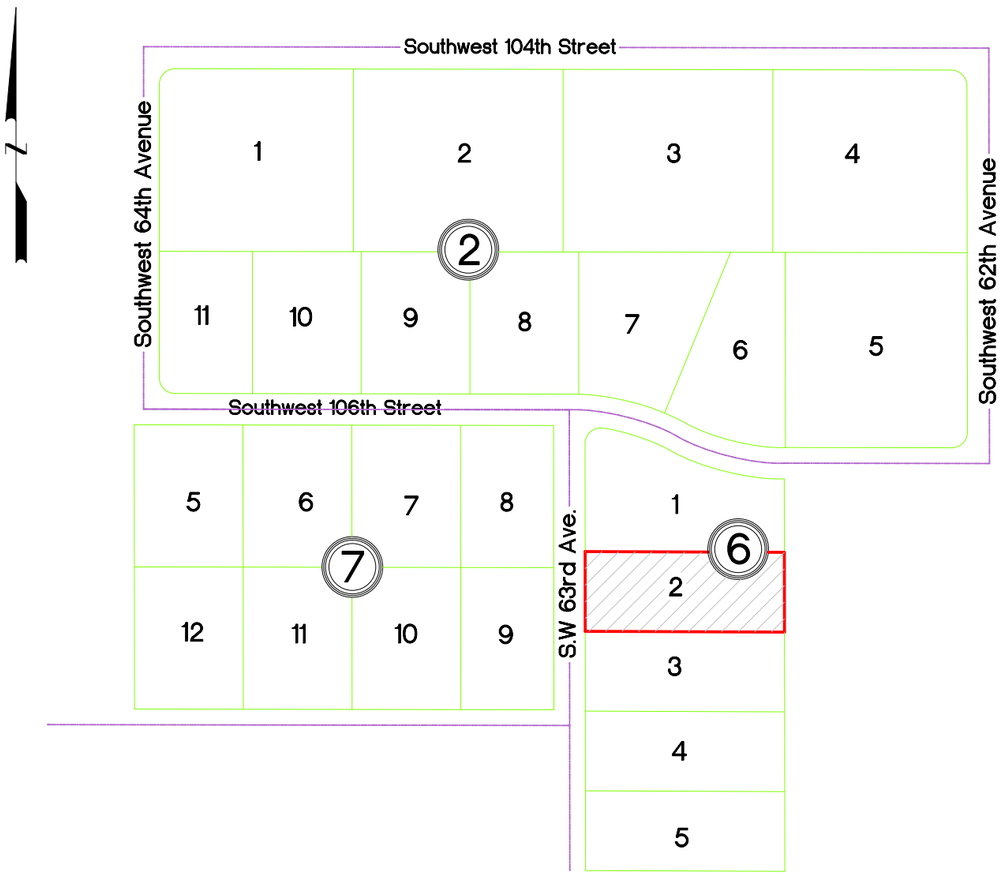
Prepared By:
**AFA & COMPANY, INC.**
**PROFESSIONAL LAND SURVEYORS AND MAPPERS**
*FLORIDA CERTIFICATE OF AUTHORIZATION No. LB 7498*
*13050 SW 133RD COURT,*
*MIAMI, FLORIDA 33186*
*E-MAIL: AFACO@BELLSOUTH.NET*
*PH: 305-234-0588*
*FX: 206-495-0778*

## Location Sketch N.T.S.




# Property Information

***CERTIFIED ONLY TO:***
GS JPD 10635 LLC, a Florida limited liability company
Old Republic National Title Insurance Company
Jeffrey E. Levey, P.A.

***PROPERTY ADDRESS:***
10635 Southwest 63rd Avenue
Pinecrest, Florida 33156

***LEGAL DESCRIPTION:***
Lot 2, Block 6, of: " HELMS COUNTRY ESTATES ADDITION ", according to the Plat Thereof as Recorded in Plat Book 51, Page 64, of the Public Records of Miami-Dade County, Florida.

***ELEVATION INFORMATION***
***National Flood Insurance Program***
***FEMA Elev. Reference to NGVD 1929***

| | |
|---|---|
| Comm Panel | 120425 |
| Panel # | 0466 |
| Firm Zone: | "X" |
| Date of Firm: | 09-11-2009 |
| Base Flood Elev. | N/A |
| F.Floor Elev. | 12.20' |
| Garage Elev. | N/A |
| Suffix: | "L" |
| Elev. Reference to NGVD 1929 | |

| | |
|---|---|
| JOB # | 24-640 |
| DATE | 06-26-2024 |
| PB | 51-64 |

Surveyors Notes:

*#1 Land Shown Hereon were not abstracted for Easement and /or Right of Way Records. The Easement / Right of Way Show on Survey are as per plat of record unless otherwise noted.*
*#2 Benchmark: Miami-Dade County Public Works Dep. BM Name T-615, BM Locator 5011, Elevation 10.90'*
*#3 Bearings as Shown hereon are Based upon Southwest 106th Street, N76°13'25"W (Chord)*
*#4 Please See Abbreviations*
*#5 Drawn By: YASH*
*#6 Date: 06-26-2024*
*#7 Completed Survey Field Date: 06-20-2024*
*#8 Disc No 2024, Station Surveying Scion*
*#9 Last Revised:*
*#10 Zoned Building setback line not determined*

Surveyor's Notes:

*#11 The herein captioned Property was surveyed and described based on the Legal Description Provided by Client.*
*#12 This Certification is Only for the lands as Described, it is not a certification of Title, Zoning, Easements, or Freedom of encumbrances. ABSTRACT NOT REVIEWED.*
*#13 There may be additional Restrictions not Shown on this survey that may be found in the Public Records of Said County Examination of ABSTRACT OF TITLE will have to be made to determine recorded instruments, if any affecting this property.*
*#14 Accuracy:*
*The expected use of land, as classified in the Standards of Practice (5J-17.052), is residential. The minimum relative distance accuracy for this type of boundary survey is 1.0 foot in 10,000.00' feet. the accuracy obtained by measurement and calculation of a closed geometric figure was found to exceed this requirement.*
*#15 Foundation and / or footing that may cross beyond the boundary lines of the parcel herein described are not shown hereon.*
*#16 Not valid without the signature and original seal of a Florida Licensed Surveyor and Mapper. additions or deletions to survey maps or reports by other than the signing party or parties.*
*#17 Contact the appropriate authority prior to any design work on the herein described parcel for building and zoning information.*
*#18 Underground Utilities are not depicted hereon, contact the appropriate authority prior to any design work or construction on the property herein described. Surveyor shall be notified as to any deviation from utilities shown hereon.*
*#19 Ownership subject to Opinion of Title.*

Professional
Surveyors & Mappers LB 7498
13050 S.W. 133rd Court
Miami Florida, 33186
E-mail: afaco@bellsouth.net
Ph: (305) 234-0588
Fax: (206) 495-0778

This certifies that the survey of the property described hereon was made under my supervision & that the survey meets the Standards of Practice set forth by the Florida Board of Professional Land Surveyors & Mappers in Chapter 5J-17.052 of Florida Administrative Code, pursuant to Section 472.027, Florida Statutes.
& That the Sketch hereon is a true and accurate representation thereof to the best of my knowledge and Belief, subject to notes and notations shown hereon.

*Armando F. Alvarez*
*Professional Surveyor & Mapper #5526*
*State of Florida*
***Not Valid unless Signed & Stamped with Embossed Seal***

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AFA & Company, Inc.
Land Surveyors

Prepared By:
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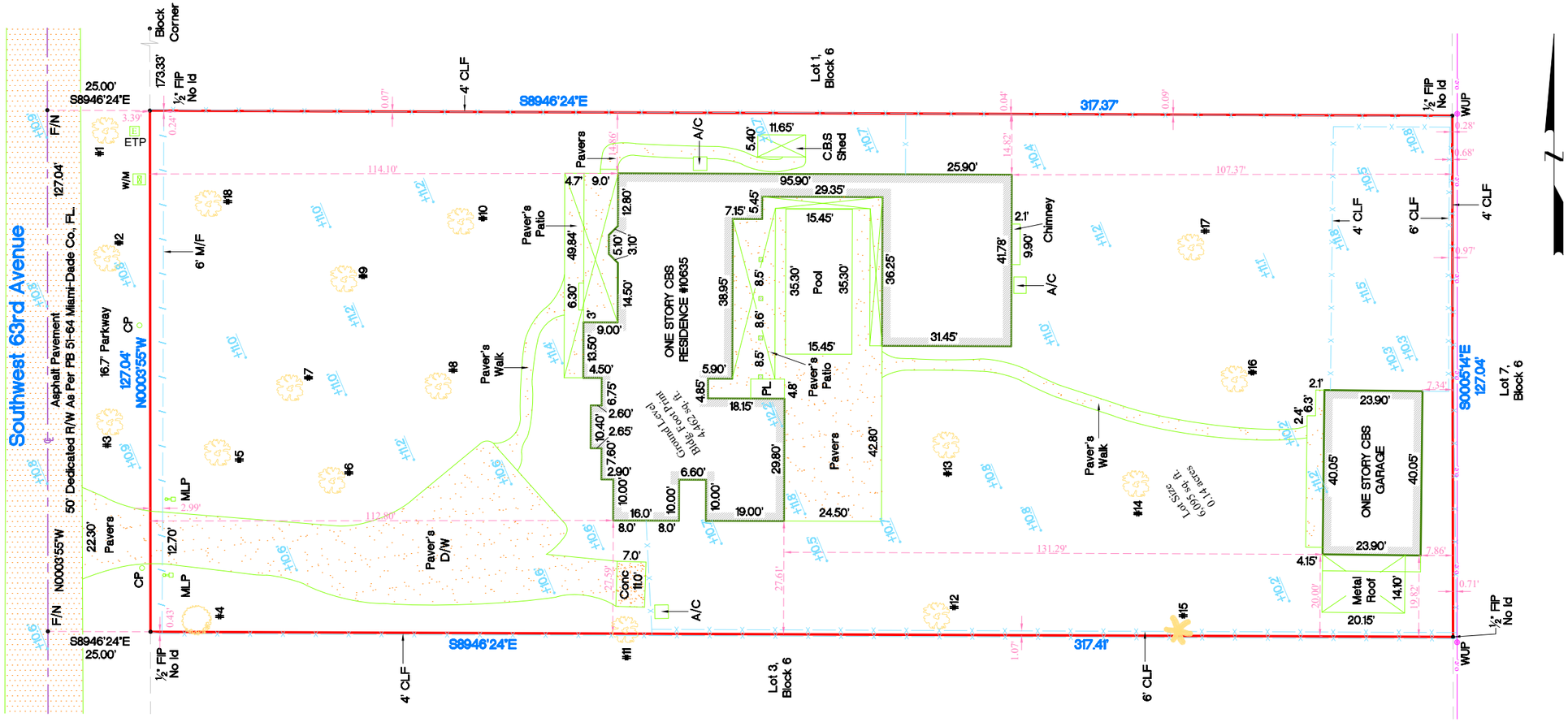
# Boundary Survey

## Graphic Scale 1" = 30'






## Abbreviations of Legend

| | |
|---|---|
| AVE. | =AVENUE |
| ASPH | =ASPHALT |
| A/W | =ANCHORD WIRE |
| A/C | =AIR CONDITIONER |
| BLDG | =BUILDING |
| B. COR. | =BLOCK CORNER |
| CAL | = CALCULATED |
| C.B. | =CATCH BASIN |
| CLF | =CHAIN LINK FENCE |
| CONC. | =CONCRETE |
| COL. | =COLUMN |
| C.U.P. | =CONCRETE UTILITY POLE |
| C.L.P. | =CONCRETE LIGHT POLE |
| CBS | =CONCRETE BLOCK STRUCTURE |
| C.M.E. | =CANAL MAINTENANCE EASEMENT |
| D | =DELTA |
| D/W | =DRIVEWAY |
| D.M.E. | =DRAINAGE & MAINTENANCE EASEMENT |
| ENC. | =ENCROACHMENT |
| E.T.P. | =ELECTRIC TRANSFORMER PAD |
| F.P.L. | =FLORIDA POWER AND LIGHT |
| F.H. | =FIRE HYDRANT |
| F.I.P. | =FOUND IRON PIPE |
| F.F. | =FINISH FLOOR |
| DH/F | =FOUND DRILL HOLE |
| F.R. | =FOUND REBAR |
| F/D | =FOUND DISC |
| F/N | =FOUND NAIL |
| I/F | =IRON FENCE |
| L | =LENGHT |
| L.M.E. | =LAKE MAINTENANCE EASEMENT |
| L.F.E. | =LOWEST FLOOR ELEVATION |
| L.P. | =LIGHT POLE |
| MEAS. | =MEASURED |
| M.H. | =MAN HOLE |
| M/L | =MONUMENT LINE |
| N.G.V.D. | =NATIONAL GEODETIC VERTICAL DATUM |
| N.T.S. | =NOT TO SCALE |
| O.E. | =OVERHEAD ELECTRIC LINE |
| O/L | =ON LINE |
| P.C.P. | =PERMANENT CONTROL POINT |
| P.M. | =PARKING METER |
| P.C. | =POINT OF CURVATURE |
| P/W | =PARKWAY |
| PL. | =PLANTER |
| P.O.C | =POINT OF COMMENCEMENT |
| P.O.B | =POINT OF BEGINNING |
| R | =RADIUS |
| RES | =RESIDENCE |
| R/W | =RIGHT OF WAY |
| S.D.H. | =SET DRILL HOLE |
| S/N | =SET NAIL |
| S.I.P. | =SET IRON PIPE |
| SDWLK | =SIDEWALK |
| ST | =STREET |
| T | =TANGENT |
| U.E. | =UTILITY EASEMENT |
| W/F | =WOOD FENCE |
| W.V. | =WATER VALVE |
| W.U.P. | =WOOD UTILITY POLE |
| —//—//— | =WOOD FENCE |
| —o—o—o— | =IRON FENCE |
| | =CBS WALL |
| —x—x—x— | =CHAIN LINK FENCE |
| | =OVERHEAD ELEC. |
| | =CENTER LINE |
| | =EASEMENT |
| +0.00' | =DENOTES ELEVATIONS |
| | =BUILDING |
| | =DISTANCE |
| | =CATCH BASIN |
| | =WATER METER |
| | =W.U.P. |
| | =STATE ROAD |
| | =US HIGHWAY |
| | =INTERSTATE |
| | =MONITORY WELL |

## Tree Legend

| # | Name | Height | Spread | Dia. |
|---|---|---|---|---|
| 1 | Oak | 30' | 30' | 1' |
| 2 | Oak | 30' | 30' | 1' |
| 3 | Oak | 30' | 30' | 1' |
| 4 | Gumbo Limbo | 25' | 18' | 1' |
| 5 | Oak | 30' | 30' | 1' |
| 6 | Oak | 30' | 30' | 1' |
| 7 | Oak | 30' | 30' | 1' |
| 8 | Oak | 30' | 30' | 1' |
| 9 | Oak | 30' | 35' | 1.5' |
| 10 | Oak | 35' | 30' | 1' |
| 11 | Oak | 40' | 30' | 1' |
| 12 | Oak | 30' | 30' | 1.5' |
| 13 | Oak | 30' | 30' | 1' |
| 14 | Oak | 30' | 30' | 1' |
| 15 | Palm | 30' | 10' | 0.70' |
| 16 | Oak | 35' | 20' | 1' |
| 17 | Oak | 30' | 30' | 1' |
| 18 | Oak | 30' | 30' | 1' |

| | |
|---|---|
| JOB # | 24-640 |
| DATE | 06-26-2024 |
| PB | 51-64 |

The sketch hereon is a true and Accurate representation thereof to the best of my knowledge and belief, Subject to notes and Notations shown hereon.

*Armando F. Alvarez*
*Professional Surveyor & Mapper #5526*
*State of Florida*
*Not Valid unless Signed & Stamped with Embossed Seal*

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# ELECTRICAL NOTES:

PART 1 – GENERAL:

1.– THE GENERAL AND SPECIAL CONDITION AND REQUIREMENTS OF THE CONTRACT AND SPECIFICATION AS WELL AS PLANS AND SPECIFICATIONS OF OTHER DISCIPLINES AND TRADES SHALL APPLY AND BE PART OF THE WORK HEREBY SPECIFIED. THESE SPECIFI–CATION AND THE ACCOMPANYING PLANS ARE INTENDED TO PROVIDE FOR THE COMPLETE FURNISHING AND INSTALLATION OF THE ELECTRICAL SYSTEMS.

2.– COMPLIANCE: WORKMANSHIP, MATERIALS AND INSTALLATION SHALL BE IN STRICT ACCORDANCE WITH THE LATEST EDITION OF 2020NEC (IN SPECIAL SEC. 680), 2023FBC (EIGHTH EDITION), NFPA, NEMA, IEEE; OTHER APPLICABLE NATIONAL STATE & LOCAL CODES AND PERTAINING REGULATIONS ESTABLISHED BY AUTHORITIES HAVING JURISDICTION, AND SHALL MEET THE REQUIREMENTS OF OTHER RECOGNIZED STANDARDS WHERE "PART 1 – GENERAL" THE REQUIREMENTS ARE MORE STRINGENT THAN THOSE CITED ABOVE.

3.– WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR IN A FIRST CLASS MANNER AND SHALL BE COMPLETED AND FULLY OPERATIVE TO THE ACCEPTANCE OF THE ARCHITECT/ENGINEER.

4.– MATERIALS: CONTRACTOR SHALL PROVIDE ALL NEW MATERIALS, BEARING THE UNDER–WRITER'S LABORATORY (UL) LABEL AS APPLICABLE. MATERIALS SHALL BE ACCEPTABLE AND ABOVE STANDARD QUALITY NORMALLY USED FOR THE PURPOSE AS CALLED FOR ON PLANS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE DELIVERY SCHEDULES OF MATERIALS.

5.– DRAWINGS ARE DIAGRAMMATIC AND INTENDED TO SHOW APPROXIMATE EQUIPMENT LOCATIONS AND ARRANGEMENTS, NOT TO SHOW EVERY MINOR DETAIL; PLANS SHALL NOT BE SCALED TO DETERMINE EXACT LOCATION AND DIMENSIONS. PROVIDE ALL OFFSETS, FITTINGS AND ACCESSORIES REQUIRED FOR A COMPLETE, ACCEPTABLE, WORKING INSTALLATION.

6.– SUPPLEMENTAL MATERIALS OR MANUFACTURED PRODUCTS NECESSARY TO COMPLY WITH THE INTENT OF THE CONTRACT DRAWINGS OR SPECIFICATIONS, BUT NOT NOTED OR SPECIFIED ON THESE SECTIONS, SHALL BE PROVIDED AS REQUIRED TO COMPLETE THE INSTALLATION AT NO ADDITIONAL COST TO THE OWNER.

7 – EXISTING CONDITION: CONTRACTOR SHALL VISIT THE JOB SITE AND ASCERTAIN ALL EXISTING CONDITIONS, WHICH WILL AFFECT HIS WORK. FAILURE TO DO SO WILL NOT BE ACCEPTED AS A REASON FOR REQUESTING EXTRA PAY WHERE THE EXISTING CONDITIONS RESULT IN EXTRA MATERIAL OR LABOR. ANY EXISTING CONDITION FOUND BY THE CONTRACTOR WHICH WILL ADVERSELY AFFECT THE WORK SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER. CORRECTION OF ANY DEFECTS SHALL BE COMPLETED WITHOUT ADDITIONAL CHARGE AND SHALL INCLUDE REPLACEMENTS OR REPAIR OF ANY OTHER PHASE OF THE INSTALLATION WHICH MAY HAVE BEEN DAMAGED THEREBY.

8 – PERMITS: CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS, FEES. TAXES, INSPECTION, TESTS, FINES AND OTHER ITEMS AS REQUIRED FOR THE INSTALLATION OF A COMPLETE ELECTRICAL SYSTEM AS OUTLINED HERE IN AND SHOWN ON PLANS. PROVIDE ALL REQUIRED INSURANCE FOR PROTECTION AGAINST PUBLIC LIABILITY AND PROPERTY DAMAGE FOR THE DURATION OF THE WORK.

9 – INTERFERENCE: PLANS ARE GENERALLY DIAGRAMMATIC AND THE CONTRACTOR SHALL COORDINATE HIS WORK WITH THE WORK OF OTHER TRADES, SO THAT INTERFERENCES WITH EXISTING CONDITIONS, CONDUITS, PIPING, EQUIPMENT, ARCHITECTURAL, STRUCTURAL AND WORK WITH OTHER TRADES ARE AVOIDED.

10 – THIS CONTRACTOR SHALL EXAMINE THESE PLANS (CONSTRUCTION DOCUMENTS) TO UNDERSTAND THE SCOPE. IN THE EVENT OF ANY DISCREPANCIES, CONTRADICTION, INFORMATION NOT PROVIDED ON THIS CONSTRUCTION DOCUMENTS, THIS CONTRACTOR SHALL STOP WORKS AND NOTIFY THIS OFFICE FOR CLARIFICATION AND PROCEED WORKS AFTER THIS OFFICE HAVE CLARIFIED THOSE DISCREPANCIES.

PART 2 – PRODUCTS:

1 – DISCONNECT SWITCHES FOR POOL AREA SHALL BE QUICK–MADE, QUICK–BRAKE ACTION, LOCKABLE TYPE PER "NEC 680–12".

2 – CONDUCTORS SHALL BE THW/THWN SOFT–DRAWN 98% CONDUCTIVITY COPPER INSTALLED IN CONDUIT, COLOR CODED PER "NEC" AND TRADE STANDARDS. MINIMUM SIZE SHALL BE #12 FOR POWER WIRING AND #14 FOR CONTROL CIRCUITS. PROVIDE #10 WIRES FOR 120V POWER CIRCUIT HOMERUNS LONGER THAN 100 FEET. ASIDE FROM THE PANELBOARD GUTTER, CONDUCTORS ON THE LOAD SIDE OF A GFCI MUST NOT BE USED IN ANY RACEWAY OR OTHER ENCLOSURE CONTAINING CONDUCTORS THAT ARE NOT GFCI–PROTECTED.

3 – CONDUIT SHALL BE "RGS" OR "IMC" HOT–DIPPED GALVANIZED FOR ALL EXTERIOR LOCATIONS, WHERE EXPOSED TO PHYSICAL DAMAGE. ALL FITTING SHALL BE STEEL. "PVC" SCHEDULE 40 SHALL BE USED WHERE CONDUIT IS RUN IN CONCRETE SLABS; "PVC" MAY BE RUN UNDERGROUND WHERE BURIED 18" BELOW FINISHED GRADE, 24" UNDER VEHICULAR TRAFFIC AREAS. GREENFIELD TYPE FLEXIBLE METALLIC CONDUIT SHALL BE USED FOR MOTORS AND VIBRATING EQUIPMENT CONNECTIONS, NOT TO EXCEED 18"; PROVIDE "PVC" JACKETED TYPE FOR EXTERIOR AND/OR MOISTURE EXPOSED LOCATIONS. FOR UNDERWATER LIGHTING FIXTURES AS PER "NEC 680–20.

4 – THIS CONTRACTOR SHALL COORDINATE WITH FP&L THE CONNECTION FOR THIS SERVICE AND REVISE INTERRUPTING CAPACITY AVAILABLE PRIOR INSTALLATION OF ALL DISCONNECTING DEVISES, AND INCREASE THE INTERRUPTING CAPACITY IN PANELS AND DISCONNECTING DEVISES IF REQUIRED.

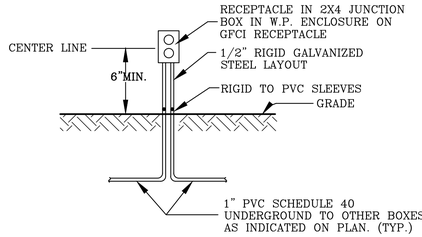
PART 3 – EXECUTION:

1 – CONDUIT RUNS, RACEWAYS AND PIPING SHALL BE CONCEALED IN WALLS, CEILINGS, SLABS AND PARTITIONS; NO RACEWAYS SHALL BE EXPOSED WITHIN INTERIOR SPACES EXCEPT FOR OPEN CEILING AREAS.

2 – GROUNDING AND BONDING SHALL COMPLY WITH "NEC 250, SPECIALLY 250–22, 250–24, 250–50/52/53, TABLE 250–66, 250–104, 680–24 & 25". ALL METALLIC RACEWAYS SHALL BE GROUNDED AND BONDED PER "NEC 250". NON–METALLIC RACEWAYS SHALL BE PROVIDED WITH A GROUNDING CONDUCTOR SIZED PER "NEC 250–94/96".

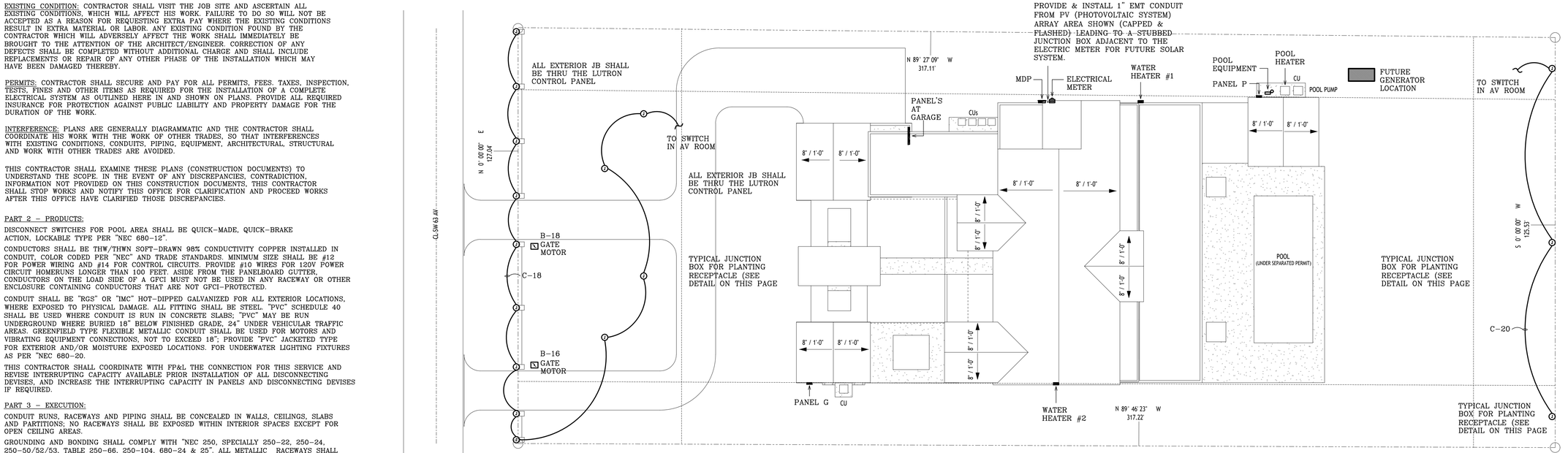
3 – MOTORS, TRANSFORMERS AND MECHANICAL EQUIPMENT SHALL BE PROVIDED WITH GREENFIELD FLEXIBLE CONNECTIONS, WATERTIGHT WHERE EXPOSED TO MOISTURE AND WEATHER CONDITIONS.

4 – KAIC NOTE: THIS CONTRACTOR SHALL COORDINATE WITH FPL THE KAIC AVAILABLE AND INCREASE OR DECREASE THE KAIC ACCORDINGLY. ALL PANELS AND DISCONNECTS SHALL BE SERIES RATED WITH MAIN SERVICE.




TYPICAL SUPPORT FOR RECEPTACLE AT PLANTING AREA–NIC

NO SCALE




GROUNDING AND BONDING SHALL COMPLY WITH "NEC 250, 680–24 & 25". ALL METALLIC RACEWAYS SHALL BE GROUNDED AND BONDED PER "NEC 250". NON–METALLIC RACEWAYS SHALL BE PROVIDED WITH A GROUNDING CONDUCTOR SIZED PER "NEC 250–95". PROVIDE 1#8 SOLID BOUNDING CONDUCTOR TO CONNECT ALL METAL PARTS AT THE POOL SUCH AS POOL REINFORCE STEEL, METAL JB'S, PUMP MOTORS, METAL CONDUITS, LIGHTING FIXTURES, METAL SHIELD PRIMARY AND SECONDARY WINDING OF POOL TRANSFORMERS, POOL STAIRS, ETC. TO COMPLY WITH 2020 NEC CODE SECTION 680–22.

OUTLETS AND ANY OTHER EQUIPMENT INSTALLED IN POOL AREA SHALL BE INSTALL AT A MINIMUM DISTANCE OF 10'–0" FROM POOL'S EDGE OR AS PER 2020 NEC CODE SECTION 680. RECEPTACLES OTHER THAN REQUIERED OUTLETS FOR POOL WILL BE IN COMPLIANCE WITH NEC 680.26(A)(3).

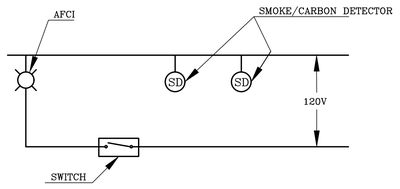
MOTORS, TRANSFORMERS AND MECHANICAL EQUIPMENT SHALL BE PROVIDED WITH GREENFIELD FLEXIBLE CONNECTIONS, WATERLIGHT WHERE EXPOSED TO MOISTURE AND WEATHER CONDITIONS. MOTORS, TRANSFORMERS AND MECHANICAL EQUIPMENT FOR THE POOL AND JACUZZI PER "NEC 680–42".

ALL EXTERIOR LIGHTS SHALL BE EQUIPPED WITH LIGHT SHIELD IN A WAY THAT THE ILLUMINATION WILL BE CONTAINED INSIDE THE PROPERTY AND NOT SPREAD TO THE NEIGHBORS.

N

ELECTRICAL SITE PLAN

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




NOTE :

SMOKE/CARBON MONOXIDE DETECTOR SHALL BE HARDWIRE (110 VOLT TYPE) TO A NON–SWITCHABLE AFCI (ARC FAULT) CIRCUIT WITH BATTERY BACK–UP AND SHALL NOT BE CONNECTED ONTO THE LOAD SIDE OF GROUND FAULT CIRCUIT INTERRUPTER. ALL SMOKE DETECTORS WITHIN EACH UNIT SHALL BE INTERCONNECTED AS SHOWN IN PARALLEL.

SMOKE CARBON MONOXIDE DETECTOR CONNECTION DETAIL

SCALE : N.T.S.

SMOKE DETECTORS NOTE:

THIS CONTRACTOR SHALL INSTALL ALL SMOKE/CARBON DETECTORS AS PER NFPA 29.5.1.3.1 (ALL POINTS ON THE CEILING SHALL HAVE A SD WITHIN A DISTANCE OF 30ft TRAVEL DISTANCE (FAMILY AND LIVING ROOM AREAS INCLUDED)

Daniel F Gutierrez

Digitally signed by Daniel F Gutierrez
DN: C=US, E=danny@dfgengineers.com, O=Florida, CN=DANIEL F GUTIERREZ
Date: 2024.11.21 14:25:11 -05'00'

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*DANIEL F. GUTIERREZ, P.E.*
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*WESLEY CHAPEL*
*PH:(786)499–4167*
*Email: danny@dfgengineers.com*

*DG CONSULTING ENGINEERS, LLC*
*DESIGN — INSPECTIONS*


**NEW RESIDENCE**

# GS JPD 10635 LLC

10635 SW 63 AV
MIAMI, FL

SEAL

DANIEL F. GUTIERREZ LICENSE No. 49086 STATE OF FLORIDA PROFESSIONAL ENGINEER

11-13-24

DANIEL F. GUTIERREZ, P.E.
ELECTRICAL ENGINEER LIC. #049086

**REVISIONS**

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**SCHEMATIC SET**

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BALLI - TRAUTMAN
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ELECTRICAL SITE PLAN

SHEET NUMBER

E-101


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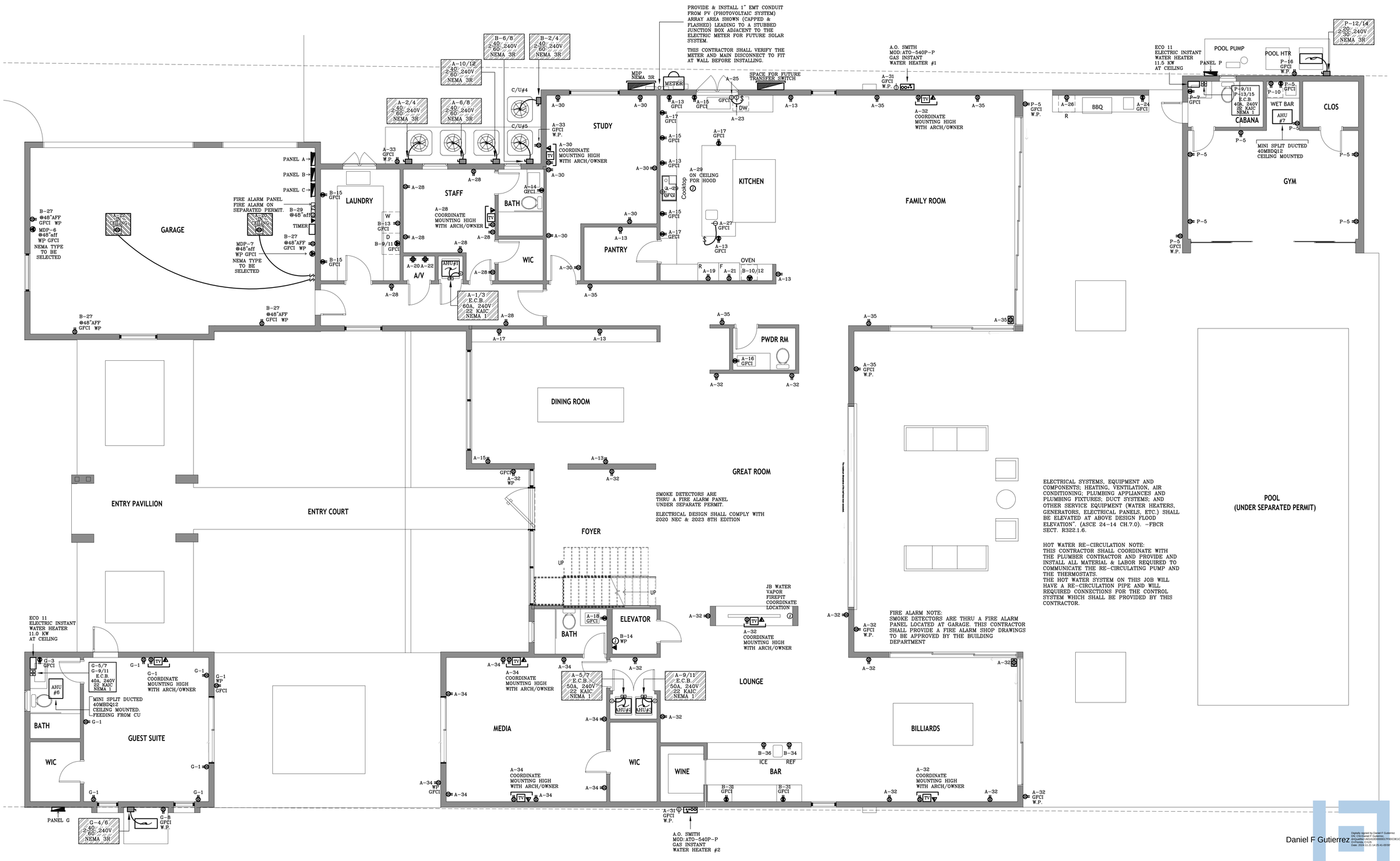


ELECTRICAL POWER 1ST FLOOR PLAN
SCALE: 3/16"=1'-0"

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*DG CONSULTING ENGINEERS, LLC*
*DESIGN — INSPECTIONS*


Daniel F Gutierrez
Digitally signed by Daniel F Gutierrez
DN: cn=Daniel F Gutierrez, o=Qualified, ou=A01410D000001F5DC0E1C2002A19D, c=US, st=Florida
Date: 2024.11.21 14:24:41 -05'00'

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11-13-24

DANIEL F. GUTIERREZ, P.E.
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ELECTRICAL POWER 1ST FLOOR PLAN

SHEET NUMBER

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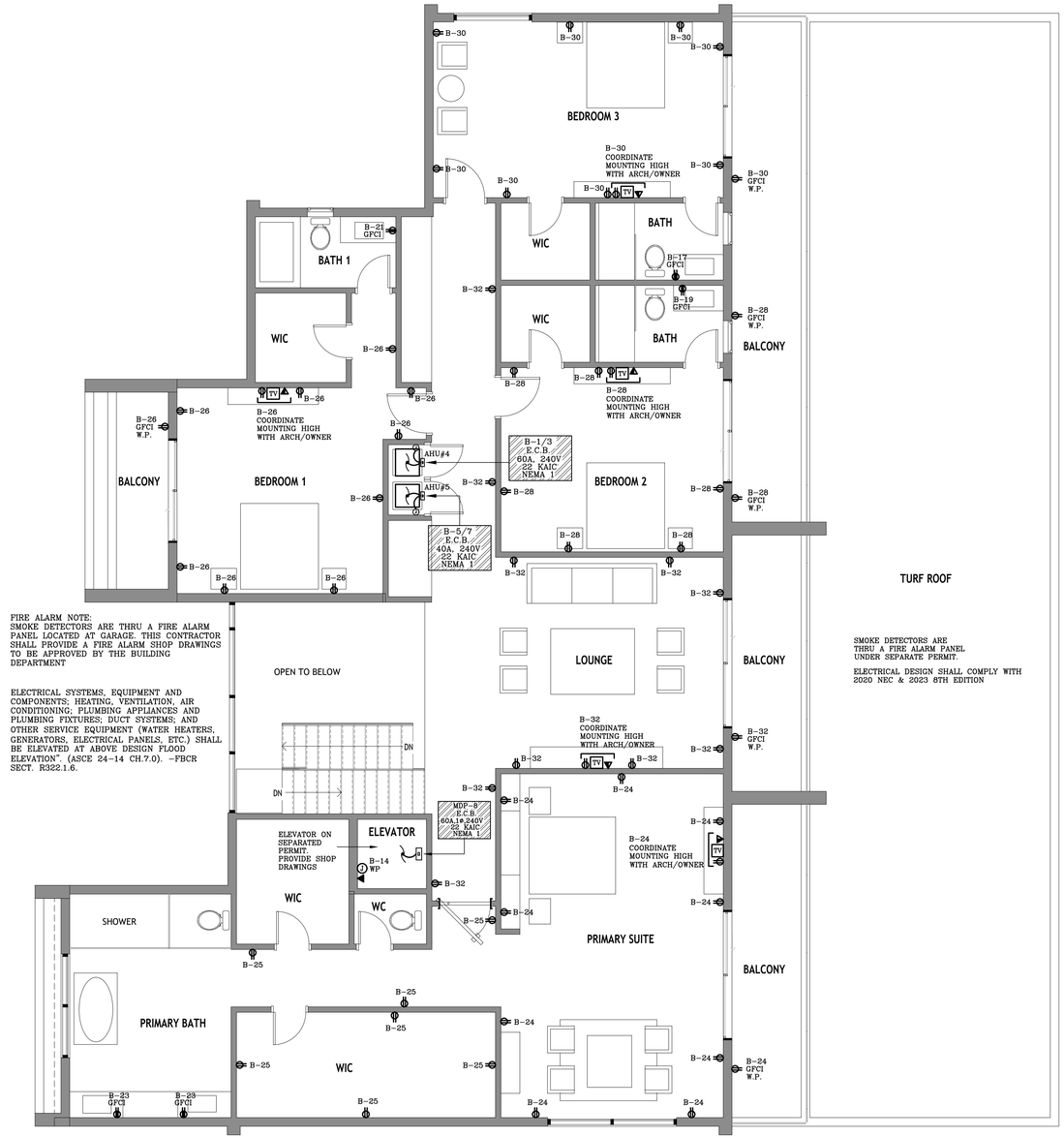
TESLA HOME GEN 3 WALL CONNECTOR
ELECTRICAL VEHICLE CHARGING STATION

THE MOST PRACTICAL CHARGING SOLUTION FOR HOUSES, APARTMENTS, LODGING FACILITIES, AND WORKPLACES IS THE TESLA GEN 3 WALL CONNECTOR.
MULTIPLE POWER SETTINGS, UP TO 71 KM OF RANGE ADDED PER HOUR OF CHARGING CHARGE AT HOME, ANYTIME.
TESLA GEN 3 WALL CONNECTOR PROVIDES A FULL CHARGE OVERNIGHT FOR EVERY HOMEOWNER.
MONITOR YOUR CHARGE WITH THE TESLA APP AND RECEIVE NOTIFICATIONS WHEN COMPLETE.
WI-FI CONNECTIVITY ENABLES OVER-THE-AIR FIRMWARE UPDATES AND REMOTE SERVICE IF NECESSARY.
TESLA WALL CONNECTOR OFFERS THE BEST HOME CHARGING EXPERIENCE FOR ANY TESLA OWNER.
LIGHTWEIGHT 18' OR 8.5' CABLE LENGTHS ARE AVAILABLE. SEE THE "CHOOSING LOCATION" CABLE LENGTH THAT WORKS BEST FOR YOUR NEEDS.

FEATURES

UP TO 11.5 KW / 48 AMP OUTPUT
CUSTOMIZABLE POWER LEVELS ON A RANGE OF CIRCUIT BREAKERS
COMPATIBLE WITH ANY HOME ELECTRICAL SYSTEM
COMPATIBLE FOR POWER SHARING WITH OTHER GEN 3 WALL CONNECTORS ONLY
WI-FI CONNECTIVITY (2.4 GHZ 802.11 B/G/N)
APPROVED FOR INDOOR AND OUTDOOR INSTALLATION
LIGHTWEIGHT 8.5", 18'OR 24" CABLE LENGTHS
TEMPERED WHITE GLASS FACEPLATE SAFETY:

THE TESLA GEN 3 WALL CONNECTOR IS DESIGNED WITH SAFETY IN MIND. IT HAS BUILT-IN OVERCURRENT AND OVERHEATING PROTECTION, ENSURING THAT YOUR CAR IS CHARGED SAFELY AND EFFICIENTLY. THE CONNECTOR IS ALSO EQUIPPED WITH AN AUTOMATIC SHUT-OFF FEATURE THAT KICKS IN IF THE CABLE IS DISCONNECTED OR IF THERE IS AN ISSUE WITH THE CHARGING PROCESS.




ELECTRICAL POWER 2ND FLOOR PLAN
SCALE: 3/16"=1'-0"

Daniel F Gutierrez
Digitally signed by Daniel F Gutierrez
DN: cn=Daniel F Gutierrez, o=DG CONSULTING ENGINEERS, LLC, ou=Florida, c=US
Date: 2024.11.15 14:39:04-05'00'

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*DG CONSULTING ENGINEERS, LLC*
*DESIGN — INSPECTIONS*


**NEW RESIDENCE**

# GS JPD 10635 LLC

10635 SW 63 AV
MIAMI, FL

SEAL

DANIEL F. GUTIERREZ LICENSE No. 49086 STATE OF FLORIDA PROFESSIONAL ENGINEER

11-13-24

DANIEL F. GUTIERREZ, P.E.
ELECTRICAL ENGINEER LIC. #049086

**REVISIONS**

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ELECTRICAL POWER 2ND FLOOR PLAN

SHEET NUMBER

E-103


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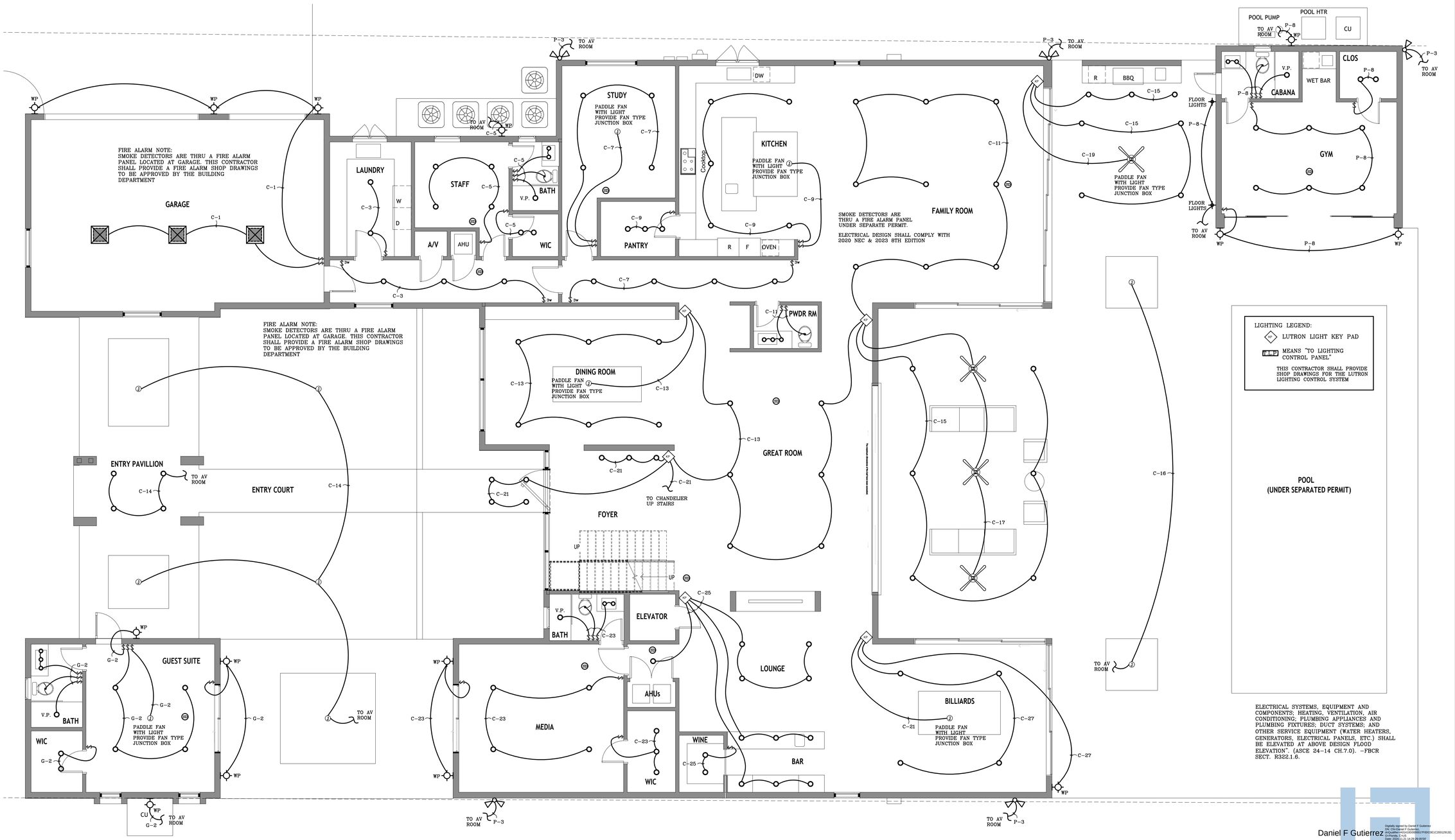


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ELECTRICAL LIGHTING 1ST FLOOR PLAN
SCALE: 3/16"=1'-0"

Daniel F Gutierrez
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DN: CN=Daniel F Gutierrez, OID.0.9.2342.19200300.100.1.1=M14432D0000017F0DC9E1C0001291E0, O=Florida, C=US
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*DG CONSULTING ENGINEERS, LLC*
*DESIGN — INSPECTIONS*

**NEW RESIDENCE**

# GS JPD 10635 LLC

10635 SW 63 AV
MIAMI, FL

SEAL

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11-13-24

DANIEL F. GUTIERREZ, P.E.
ELECTRICAL ENGINEER LIC. #049086

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**SCHEMATIC SET**

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## ELECTRICAL LIGHTING 1ST FLOOR PLAN

SHEET NUMBER

# E-104

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## ELECTRICAL LEGEND

| | |
|---|---|
| $_{MS}$ | 120 V THREE WAY TOGGLE SWITCH, SINGLE POLE. (+48" AFF UNLESS OTHERWISE NOTED). VOLTAGE AS PER CIRCUIT DESIGNATION. "MS" MEANS MOTION SENSORS. PROVIDE NEUTRAL AS PER 2020 NEC 404.2(C). |
| $_{3W}$ | 120 V THREE WAY TOGGLE SWITCH, SINGLE POLE. (+48" AFF UNLESS OTHERWISE NOTED). VOLTAGE AS PER CIRCUIT DESIGNATION. |
| F | GROUNDED TYPE DUPLEX RECEPTACLE, WALL. (+18" AFF UNLESS OTHERWISE NOTED.) LETTER "F" DESIGNATION MEANS FLOOR MOUNTED. |
| | GROUNDED TYPE DUPLEX RECEPTACLE, WALL. (+4" ABOVE COUNTER UNLESS OTHERWISE NOTED.) LETTER "D" DESIGNATION MEANS DEDICATED; LATTER "I" DESIGNATION MEANS ISOLATED GROUND. |
| | GROUNDED TYPE DUPLEX RECEPTACLE HALF SWITCHED, WALL. (+18" AFF UNLESS OTHERWISE NOTED.) |
| | GROUNDED TYPE SINGLE RECEPTACLE, WALL. (+4" ABOVE COUNTER UNLESS OTHERWISE NOTED.) |
| | GROUNDED TYPE SINGLE RECEPTACLE FLOOR MOUNTED. |
| | GROUNDED TYPE 30AMPS, 120/240V RECEPTACLE, WALL. |
| J | JUNCTION BOX. INSTALL FAN TYPE JUNCTION BOX (FOR 50 LBS) IN ALL FANS. |
| | TELEPHONE OUTLET, WALL. (+18" AFF) |
| TV | T.V. OUTLET CABLE |
| | CONDUIT CONCEALED IN OR UNDER FLOOR SLABS. |
| | CONDUIT CONCEALED ABOVE CEILING OR IN WALL. |
| | PANEL |
| | DISCONNECT SWITCH. |
| ECB | ENCLOSED CIRCUIT BREAKER |
| | GROUND CONNECTION. |
| | ELECTRIC MOTOR CONNECTION. |
| | CEILING MOUNTED LIGHT FIXTURE (TO BE SELECTED) |
| SD | SMOKE/CARBON MONOXIDE DETECTOR COMBO |
| FL | FLOOR LIGHTS |

PROVIDE MINIMUM OF 1 FOOT CANDLE INSIDE AND OUTSIDE STAIRS AS PER 2023 8th edition FBC R303.6

PROVIDE GFCI AS PER NEC 210.8 FOR ALL 125V, 15 OR 20 AMPS RECEPTACLES AT ALL BATHROOMS

GFCI RECEPTACLES MUST BE READILY ACCESSIBLE (NEC 210.8)

PROVIDE MIN OF 1FC AT ALL EGRESS AS PER 2023FBC 8th edition 1006.

**TYPE IC LIGHT FIXTURES NOTE**

THIS CONTRACTOR SHALL PROVIDE AND INSTALL IC LIGHT FIXTURE IF REQUIRED AS PER 2020NEC 410.116(2), ASTM E 283, R402 4.1.1, C402.5.8

**LIGHT FIXTURES LOCATION NOTE:**

THE LOCATION OF ALL LIGHT FIXTURES ON THIS DRAWING ARE FOR PERMITTING ONLY AND DOES NOT REPRESENT EXACT LOCATION.

THIS CONTRACTOR SHALL COORDINATE WITH THE HVAC CONTRACTOR AND THE ARCHITECT/OWNER FOR EXACT LOCATION PRIOR THE INSTALLATION OF ALL LIGHT FIXTURES.

**GROUNDING**

THIS CONTRACTOR SHALL PROVIDE GROUNDING AS PER NEC 250. SEE ELECTRICAL NOTE 2 OF PART 3.

**NEUTRAL WIRE AT SWITCHED**

PROVIDE NEUTRAL WIRE AT BATHROOMS, HALLWAYS, STAIRWAYS, OR ROOMS THAT ARE SUITABLE FOR HUMAN HABITATION OR OCCUPANCT AS PER 2020 NEC 404.2(C).

**TAMPER RESISTANT NOTE:**

THIS CONTRACTOR SHALL PROVIDE AND INSTALL TAMPER RESISTANT FOR ALL RECEPTACLES (EXISTING & NEW)AS PER 2020NEC 406.12

**BATH EXHAUST FANS NOTE:**

ALL BATH EXHAUST FANS SHALL BE CONNECTED THRU THE LIGHT SWITCH WITH A SEPARATE SWITCH. THE J.B. AND FAN ATTACHMENTS SHALL BE RATED FOR CEILING FAN.

**OUTDOOR RECEPTACLES NOTE:**

RECEPTACLES LOCATED OUTDOOR IN WET LOCATION SHALL BE PROVIDED WITH IN USE COVER LISTED "EXTRA DUTY" AS PER NEC 406.9(B)(1) & 406.2

USE PVC SCH-40 FOR UNDERGROUND CONDUITS

ALL EXTERIOR LIGHTS SHALL BE RATED FOR WET LOCATION

A GROUNDED CONDUCTOR (NEUTRAL) MUST BE PROVIDED AT ALL LIGHTING OUTLETS UNLESS THE WITING IS IN METAL RACEWAY (NEC 404.2(C))

**ARC FAULT (AFCI) & GFCI CIRCUIT BREAKERS NOTE**

THIS CONTRACTOR SHALL PROVIDE AND INSTALL ARC FAULT CIRCUIT BREAKERS IN ALL NEW 15 & 20 AMPS CIRCUITS AND/OR NEW/REPLACED LIGHTS AND RECEPTACLES. PROVIDE GFCI AT ALL BATHROOM RECEPTACLES. AFCI/GFCI WITHIN 3 FT FROM SINK.

**SMOKE/CARBON MONOXIDE DETECTOR NOTE:**

ALL SMOKE/CARBON MONOXIDE DETECTORS SHALL BE 110V WITH BATTETY BACK UP AND INTERCONNECTED FROM A AFCI (ARC FAULT) LIGHTING CIRCUIT AHEAD OF SWITCH.

SMOKE/CARBON MONOXIDE DETECTORS MAY NOT BE WITHIN 20FT OF A COOKING APPLIANCE AND NOT CLOSER THAN 3FT FROM THE DOOR TO BATHROOM, WASHER/DRYER, KITCHEN AND A/C.

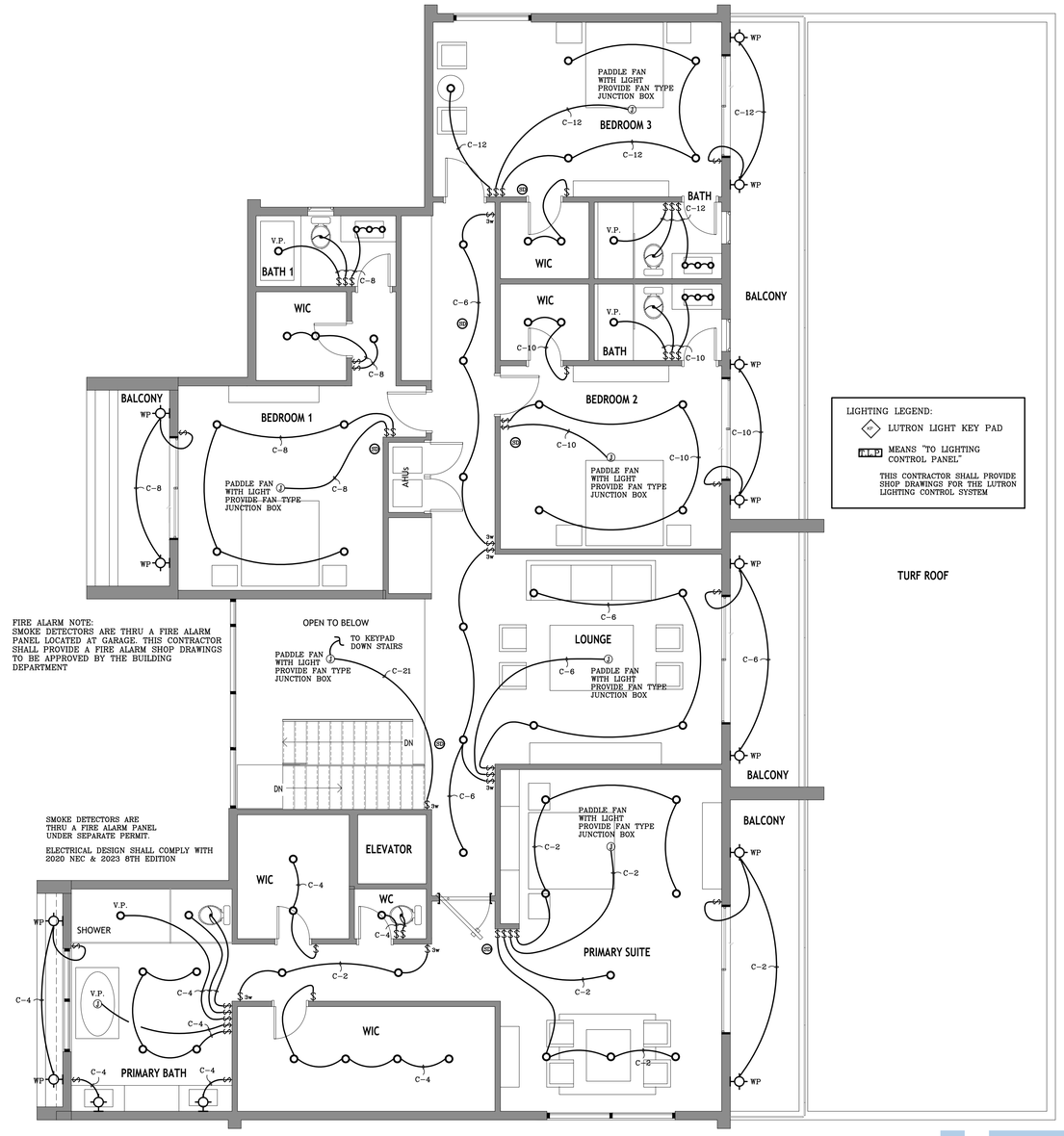
THE ACTIVATION OF ANY SMOKE DETECTOR SHALL ACTIVATE THE OTHERS.

LUMINARIES SHALL HAVE AN EFFICIENCY OF AT LEAST 45 LUMENS-PER-WATT OR SHALL UTILIZE LAMPS WITH AN EFFICACY OF NOT LESS THAN 65 LUMENS-PER-WATT. AS PER 2023FBC 8TH EDITION 404.1, E C 405.

**EQUIPMENT LABELING :**

THIS CONTRACTOR MUST LABELED WITH SHORT VALUE AND DATED USING A PHENOLIC LABEL OR EQUIVALENT TO SUSTAIN THE SURROUNDING ENVIRONMENT

SMOKE/CARBON DETECTORS NOTE:
THIS CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL SMOKE/CARBON DETECTOR AND INSTALL THEM 3'-0" AWAY OF ANY A/C DIFFUSER OR EXHAUST.

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ELECTRICAL LIGHTING 2ND FLOOR PLAN
SCALE: 3/16"=1'-0"

Daniel F Gutierrez
Digitally signed by Daniel F Gutierrez
DN: cn=Daniel F Gutierrez, o=DG Consulting Engineers, ou=Florida, c=US
Date: 2025.07.11 14:29:58-05'00'

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*DG CONSULTING ENGINEERS, LLC*
*DESIGN — INSPECTIONS*


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10635 SW 63 AV
MIAMI, FL

SEAL

DANIEL F. GUTIERREZ LICENSE No. 49086 STATE OF FLORIDA PROFESSIONAL ENGINEER

11-13-24


DANIEL F. GUTIERREZ, P.E.
ELECTRICAL ENGINEER LIC. #049086


**REVISIONS**

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**SCHEMATIC SET**

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ELECTRICAL LIGHTING 2ND FLOOR PLAN

SHEET NUMBER

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TYPE: SIEMENS ITE
SERVICE: 1ø, 3W
VOLTAGE: 120/240 V.
MOUNTING: FLUSH

## PANEL A

22 KAIC (SERIES RATED WITH MDP)
NEMA 1

MAIN BUS: 225 AMPS
NEUTRAL: F/N
MAIN: M.L.O.
LOCATION: WALL

| K/VOLT AMP | POLE | TRIP | CONDUIT | WIRE | REMARKS | CKT. NO. | | CKT. NO. | REMARKS | WIRE | CONDUIT | TRIP | POLE | K/VOLT AMPS. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10.50 | 2 | 60 | 1" | #6 | AHU#1 W/10KW HEATER | 1 | | 2 | CU#1 | #8 | 3/4" | 40 | 2 | 6.25 |
| | | | | | | 3 | | 4 | | | | | | |
| 8.50 | 2 | 50 | 3/4" | #6 | AHU#2 W/8KW HEATER | 5 | | 6 | CU#2 | #8 | 3/4" | 40 | 2 | 6.25 |
| | | | | | | 7 | | 8 | | | | | | |
| 8.50 | 2 | 50 | 3/4" | #6 | AHU#3 W/8KW HEATER | 9 | | 10 | CU#3 | #8 | 3/4" | 40 | 2 | 6.25 |
| | | | | | | 11 | | 12 | | | | | | |
| 1.50 | 1 | 20 | 3/4" | #12 | * SMALL APPLIANCES | 13 | | 14 | * BATH GFCI | #12 | 3/4" | 20 | 1 | 0.30 |
| 1.50 | 1 | 20 | 3/4" | #12 | * SMALL APPLIANCES | 15 | | 16 | * BATH GFCI | #12 | 3/4" | 20 | 1 | 0.30 |
| 1.50 | 1 | 20 | 3/4" | #12 | * SMALL APPLIANCES | 17 | | 18 | * BATH GFCI | #12 | 3/4" | 20 | 1 | 0.30 |
| 1.50 | 1 | 20 | 3/4" | #12 | * REFRIGERATOR GFCI | 19 | | 20 | * GARAGE DOOR MOTOR | #12 | 3/4" | 20 | 1 | 1.50 |
| 1.20 | 1 | 20 | 3/4" | #12 | * FRIDGE GFCI | 21 | | 22 | * GARAGE DOOR MOTOR | #12 | 3/4" | 20 | 1 | 1.50 |
| 1.20 | 1 | 20 | 3/4" | #12 | * DISHWASHER GFCI | 23 | | 24 | * SMALL APPLIANCES BBQ | #12 | 3/4" | 20 | 1 | 1.50 |
| 1.20 | 1 | 20 | 3/4" | #12 | * GARBAGE DISPOSAL GFCI | 25 | | 26 | * REFRIGERATOR BBQ | #12 | 3/4" | 20 | 1 | 1.50 |
| 1.20 | 1 | 20 | 3/4" | #12 | * GARBAGE DISPOSAL GFCI | 27 | | 28 | * STAFF ROOM RECEPTACLES | #12 | 3/4" | 20 | 1 | 1.00 |
| 1.00 | 1 | 20 | 3/4" | #12 | * HOOD/COOKTOP IGNITION | 29 | | 30 | * STUDY ROOM RECEPTACLES | #12 | 3/4" | 20 | 1 | 1.00 |
| 1.00 | 1 | 20 | 3/4" | #12 | * WATER HEATER IGNITER | 31 | | 32 | * RECEPTACLES | #12 | 3/4" | 20 | 1 | 1.00 |
| 1.00 | 1 | 20 | 3/4" | #12 | * SERVICE RECEPTACLE | 33 | | 34 | * MEDIA ROOM RECEPTACLES | #12 | 3/4" | 20 | 1 | 1.00 |
| 1.00 | 1 | 20 | 3/4" | #12 | * FAMILY RECEPTACLE | 35 | | 36 | SPACE | -- | -- | -- | 1 | --- |
| --- | 1 | -- | -- | -- | SPACE | 37 | | 38 | SPACE | -- | -- | -- | 1 | --- |
| --- | 1 | -- | -- | -- | SPACE | 39 | | 40 | SPACE | -- | -- | -- | 1 | --- |
| --- | 1 | -- | -- | -- | SPACE | 41 | | 42 | SPACE | -- | -- | -- | 1 | --- |
| 41.30 | | | | | | | | | | | | | | 29.65 |

TOTAL CONNECTED LOAD: 70.95 KVA
TOTAL CONNECTED LOAD WITHOUT CU: 52.20 KVA
TOTAL CONNECTED AMPS: 217 amps

ROMEX CABLE WILL BE PERMITTED WERE ALLOWED BY THE 2020NEC

THIS CONTRACTOR SHALL PROVIDE #10 WIRE FOR HOMERUNS OVER 100FT (SEE NOTE 2 OF PART 2)

ALL PANELS AND DISCONNECTS SHALL BE 22KAIC SERIES RATED WITH MAIN AT 42KAIC.

* PROVIDE AFCI(ARC-FAULT)/GFCI BREAKER AS PER 2020NEC 210.12(B) AND 406.4(D)(4).
** PROVIDE TIMER/CLOCK

TYPE: SIEMENS ITE
SERVICE: 1ø, 3W
VOLTAGE: 120/240 V.
MOUNTING: FLUSH

## PANEL B

22 KAIC (SERIES RATED WITH MDP)
NEMA 1

MAIN BUS: 225 AMPS
NEUTRAL: F/N
MAIN: M.L.O.
LOCATION: WALL

| K/VOLT AMP | POLE | TRIP | CONDUIT | WIRE | REMARKS | CKT. NO. | | CKT. NO. | REMARKS | WIRE | CONDUIT | TRIP | POLE | K/VOLT AMPS. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10.50 | 2 | 60 | 1" | #6 | AHU#4 W/10KW HEATER | 1 | | 2 | CU#4 | #8 | 3/4" | 40 | 2 | 6.25 |
| | | | | | | 3 | | 4 | | | | | | |
| 5.50 | 2 | 40 | 3/4" | #8 | AHU#5 W/5KW HEATER | 5 | | 6 | CU#5 | #8 | 3/4" | 40 | 2 | 6.25 |
| | | | | | | 7 | | 8 | | | | | | |
| 5.00 | 2 | 60 | 1" | #6 | DRYER GFCI MUST CUMPLY WITH NEC 250.140 | 9 | | 10 | * OVEN GFCI MUST CUMPLY WITH NEC 250.140 | #12 | 3/4" | 20 | 2 | 6.00 |
| | | | | | | 11 | | 12 | | | | | | |
| 1.50 | 1 | 20 | 3/4" | #12 | * WASHER (GFCI) | 13 | | 14 | * ELEVATOR LIGHT/RECEPTACLE | #12 | 3/4" | 20 | 1 | 1.00 |
| 0.30 | 1 | 20 | 3/4" | #12 | * GFCI LAUNDRY RECEPTACLES | 15 | | 16 | * GATE MOTOR GFCI | #10 | 1" | 20 | 1 | 1.20 |
| 0.30 | 1 | 20 | 3/4" | #12 | * BATH GFCI | 17 | | 18 | * GATE MOTOR GFCI | #10 | 1" | 20 | 1 | 1.20 |
| 0.30 | 1 | 20 | 3/4" | #12 | * BATH GFCI | 19 | | 20 | * A.V. ROOM RECEPTACLES | #12 | 3/4" | 20 | 1 | 1.00 |
| 0.30 | 1 | 20 | 3/4" | #12 | * BATH GFCI | 21 | | 22 | * A.V. ROOM RECEPTACLES | #12 | 3/4" | 20 | 1 | 1.00 |
| 0.30 | 1 | 20 | 3/4" | #12 | * BATH GFCI | 23 | | 24 | * MASTER BED RECEPTACLES | #12 | 3/4" | 20 | 1 | 1.00 |
| 1.00 | 1 | 20 | 3/4" | #12 | * MASTER BATH RECEPTACLES | 25 | | 26 | * BEDROOM 1 RECEPTACLES | #12 | 3/4" | 20 | 1 | 1.00 |
| 1.00 | 1 | 20 | 3/4" | #12 | * GARAGE RECEPTACLES | 27 | | 28 | * BEDROOM 2 RECEPTACLES | #12 | 3/4" | 20 | 1 | 1.00 |
| 1.00 | 1 | 20 | 3/4" | #12 | * FIRE ALARM | 29 | | 30 | * BEDROOM 3 RECEPTACLES | #12 | 3/4" | 20 | 1 | 1.00 |
| 1.50 | 1 | 20 | 3/4" | #12 | * SMALL APPLIANCES BAR | 31 | | 32 | * RECEPTACLES | #12 | 3/4" | 20 | 1 | 1.00 |
| --- | 1 | -- | -- | -- | SPACE | 33 | | 34 | * REFRIGERATOR GFCI | #12 | 3/4" | 20 | 1 | 1.50 |
| --- | 1 | -- | -- | -- | SPACE | 35 | | 36 | * ICE MAKER GFCI | #12 | 3/4" | 20 | 1 | 1.20 |
| --- | 1 | -- | -- | -- | SPACE | 37 | | 38 | SPACE | -- | -- | -- | 1 | --- |
| --- | 1 | -- | -- | -- | SPACE | 39 | | 40 | SPACE | -- | -- | -- | 1 | --- |
| --- | 1 | -- | -- | -- | SPACE | 41 | | 42 | SPACE | -- | -- | -- | 1 | --- |
| 28.50 | | | | | | | | | | | | | | 31.60 |

TOTAL CONNECTED LOAD: 60.10 KVA
TOTAL CONNECTED LOAD WITHOUT CU: 47.60 KVA
TOTAL CONNECTED AMPS: 198 amps

ROMEX CABLE WILL BE PERMITTED WERE ALLOWED BY THE 2020NEC

THIS CONTRACTOR SHALL PROVIDE #10 WIRE FOR HOMERUNS OVER 100FT (SEE NOTE 2 OF PART 2)

ALL PANELS AND DISCONNECTS SHALL BE 22KAIC SERIES RATED WITH MAIN AT 65KAIC.

* PROVIDE AFCI(ARC-FAULT)/GFCI BREAKER AS PER 2020NEC 210.12(B) AND 406.4(D)(4).
** PROVIDE TIMER/CLOCK

TYPE: SIEMENS ITE
SERVICE: 1ø, 3W
VOLTAGE: 120/240 V.
MOUNTING: FLUSH

## PANEL C

22 KAIC (SERIES RATED WITH MDP)
NEMA 1

MAIN BUS: 125
NEUTRAL: F/N
MAIN: M.L.O.
LOCATION: WALL

| K/VOLT AMP | POLE | TRIP | CONDUIT | WIRE | REMARKS | CKT. NO. | | CKT. NO. | REMARKS | WIRE | CONDUIT | TRIP | POLE | K/VOLT AMPS. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1.00 | 1 | 20 | 3/4" | #12 | * GARAGE LIGHTS | 1 | | 2 | * MASTER BED LIGHTS | #12 | 3/4" | 20 | 1 | 1.00 |
| 1.00 | 1 | 20 | 3/4" | #12 | * LAUNDRY LIGHTS | 3 | | 4 | * MASTER BATH LIGHTS | #12 | 3/4" | 20 | 1 | 1.00 |
| 1.00 | 1 | 20 | 3/4" | #12 | * STAFF LIGHTS | 5 | | 6 | * LOUNGE LIGHTS | #12 | 3/4" | 20 | 1 | 1.00 |
| 1.00 | 1 | 20 | 3/4" | #12 | * STUDY LIGHTS | 7 | | 8 | * BEDROOM 1 LIGHTS | #12 | 3/4" | 20 | 1 | 1.00 |
| 1.00 | 1 | 20 | 3/4" | #12 | * KITCHEN LIGHTS | 9 | | 10 | * BEDROOM 2 LIGHTS | #12 | 3/4" | 20 | 1 | 1.00 |
| 1.00 | 1 | 20 | 3/4" | #12 | * FAMILY LIGHTS | 11 | | 12 | * BEDROOM 3 LIGHTS | #12 | 3/4" | 20 | 1 | 1.00 |
| 1.00 | 1 | 20 | 3/4" | #12 | * DINING/GREAT LIGHTS | 13 | | 14 | * LANDSCAPE LIGHTS | #12 | 3/4" | 20 | 1 | 1.00 |
| 1.00 | 1 | 20 | 3/4" | #12 | * BBQ LIGHTS | 15 | | 16 | * LANDSCAPE LIGHTS | #12 | 3/4" | 20 | 1 | 1.00 |
| 1.00 | 1 | 20 | 3/4" | #12 | * BBQ LIGHTS | 17 | | 18 | * LANDSCAPE LIGHTS | #12 | 3/4" | 20 | 1 | 1.00 |
| 1.00 | 1 | 20 | 3/4" | #12 | * BBQ LIGHTS | 19 | | 20 | * LANDSCAPE LIGHTS | #12 | 3/4" | 20 | 1 | 1.00 |
| 1.00 | 1 | 20 | 3/4" | #12 | * FOYER LIGHTS | 21 | | 22 | SPACE | -- | -- | -- | 1 | --- |
| 1.00 | 1 | 20 | 3/4" | #12 | * MEDIA LIGHTS | 23 | | 24 | SPACE | -- | -- | -- | 1 | --- |
| 1.00 | 1 | 20 | 3/4" | #12 | * LOUNGE LIGHTS | 25 | | 26 | SPACE | -- | -- | -- | 1 | --- |
| 1.00 | 1 | 20 | 3/4" | #12 | * GAME ROOM LIGHTS | 27 | | 28 | SPACE | -- | -- | -- | 1 | --- |
| --- | 1 | -- | -- | -- | SPACE | 29 | | 30 | SPACE | -- | -- | -- | 1 | --- |
| --- | 1 | -- | -- | -- | SPACE | 31 | | 32 | SPACE | -- | -- | -- | 1 | --- |
| --- | 1 | -- | -- | -- | SPACE | 33 | | 34 | SPACE | -- | -- | -- | 1 | --- |
| --- | 1 | -- | -- | -- | SPACE | 35 | | 36 | SPACE | -- | -- | -- | 1 | --- |
| --- | 1 | -- | -- | -- | SPACE | 37 | | 38 | SPACE | -- | -- | -- | 1 | --- |
| --- | 1 | -- | -- | -- | SPACE | 39 | | 40 | SPACE | -- | -- | -- | 1 | --- |
| --- | 1 | -- | -- | -- | SPACE | 41 | | 42 | SPACE | -- | -- | -- | 1 | --- |
| 14.00 | | | | | | | | | | | | | | 10.00 |

TOTAL CONNECTED LOAD: 24.00 KVA
TOTAL CONNECTED AMPS: 100 amps

ROMEX CABLE WILL BE PERMITTED WERE ALLOWED BY THE 2020NEC

THIS CONTRACTOR SHALL PROVIDE #10 WIRE FOR HOMERUNS OVER 100FT (SEE NOTE 2 OF PART 2)

ALL PANELS AND DISCONNECTS SHALL BE 22KAIC SERIES RATED WITH MAIN AT 65KAIC.

* PROVIDE AFCI(ARC-FAULT)/GFCI BREAKER AS PER 2020NEC 210.12(B) AND 406.4(D)(4).
** PROVIDE TIMER/CLOCK

TYPE: SIEMENS ITE
SERVICE: 1ø, 3W
VOLTAGE: 120/240 V.
MOUNTING: FLUSH

## PANEL P

22 KAIC (SERIES RATED WITH MDP)
NEMA 3R

MAIN BUS: 150 AMPS
NEUTRAL: F/N
MAIN: M.L.O.
LOCATION: WALL

| K/VOLT AMP | POLE | TRIP | CONDUIT | WIRE | REMARKS | CKT. NO. | | CKT. NO. | REMARKS | WIRE | CONDUIT | TRIP | POLE | K/VOLT AMPS. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1.50 | 1 | 20 | 3/4" | #10 | * SPRINKLER PUMP (GFCI) | 1 | | 2 | POOL LIGHT GFCI (BY OTHERS) | -- | -- | -- | 1 | 1.50 |
| 1.00 | 1 | 20 | 3/4" | #12 | **FLOOD LIGHTS (GFCI) | 3 | | 4 | POOL MOTOR GFCI (BY OTHERS) | -- | --- | -- | 2 | 3.00 |
| 1.00 | 1 | 20 | 3/4" | #12 | * GYM RECEPTACLES | 5 | | 6 | | | | | | |
| 0.30 | 1 | 20 | 3/4" | #12 | * BATH GFCI | 7 | | 8 | * GYM LIGHTS | #12 | 3/4" | 20 | 1 | 1.00 |
| 5.50 | 2 | 40 | 1" | #8 | WATER HEATER (5.5kw) PROVIDE INTERLOCK | 9 | | 10 | * REFRIGERATOR GFCI | #12 | 3/4" | 20 | 1 | 1.50 |
| | | | | | | 11 | | 12 | CU #7 (FLA=15.0amps) FEED AHU#7 | #12 | 3/4" | 20 | 2 | 4.00 |
| 5.50 | 2 | 40 | 1" | #8 | WATER HEATER (5.5kw) PROVIDE INTERLOCK | 13 | | 14 | | | | | | |
| | | | | | | 15 | | 16 | SERVICE RECEPTACLES | #12 | 3/4" | 20 | 1 | 1.00 |
| --- | 1 | -- | -- | -- | SPACE | 17 | | 18 | SPACE | -- | -- | -- | 1 | --- |
| --- | 1 | -- | -- | -- | SPACE | 19 | | 20 | SPACE | -- | -- | -- | 1 | --- |
| 14.80 | | | | | | | | | | | | | | 12.00 |

TOTAL CONNECTED LOAD: 26.80 KVA
TOTAL CONNECTED AMPS: 111 AMPS

ROMEX CABLE WILL BE PERMITTED WERE ALLOWED BY THE 2020NEC

THIS CONTRACTOR SHALL PROVIDE #10 WIRE FOR HOMERUNS OVER 100FT (SEE NOTE 2 OF PART 2)

ALL PANELS AND DISCONNECTS SHALL BE 22KAIC SERIES RATED WITH MAIN AT 42KAIC.

* PROVIDE AFCI(ARC-FAULT)/GFCI BREAKER AS PER 2020NEC 210.12(B) AND 406.4(D)(4).
** PROVIDE TIMER/CLOCK

TYPE: SIEMENS ITE
SERVICE: 1ø, 3W
VOLTAGE: 120/240 V.
MOUNTING: FLUSH

## PANEL G

22 KAIC (SERIES RATED WITH MDP)
NEMA 3R

MAIN BUS: 125 AMPS
NEUTRAL: F/N
MAIN: M.L.O.
LOCATION: WALL

| K/VOLT AMP | POLE | TRIP | CONDUIT | WIRE | REMARKS | CKT. NO. | | CKT. NO. | REMARKS | WIRE | CONDUIT | TRIP | POLE | K/VOLT AMPS. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1.00 | 1 | 20 | 3/4" | #12 | * GUEST RECEPTACLES | 1 | | 2 | * GUEST LIGHTS | #12 | 3/4" | 20 | 1 | 1.00 |
| 0.30 | 1 | 20 | 3/4" | #12 | * BATH GFCI | 3 | | 4 | CU #6 (FLA=15.0amps) FEED AHU#6 | #12 | 3/4" | 20 | 2 | 4.00 |
| 5.50 | 2 | 40 | 1" | #8 | WATER HEATER (5.5kw) PROVIDE INTERLOCK | 5 | | 6 | | | | | | |
| | | | | | | 7 | | 8 | SERVICE RECEPTACLES | #12 | 3/4" | 20 | 1 | 1.00 |
| 5.50 | 2 | 40 | 1" | #8 | WATER HEATER (5.5kw) PROVIDE INTERLOCK | 9 | | 10 | SPACE | -- | -- | -- | 1 | --- |
| | | | | | | 11 | | 12 | SPACE | -- | -- | -- | 1 | --- |
| --- | 1 | -- | -- | -- | SPACE | 13 | | 14 | SPACE | -- | -- | -- | 1 | --- |
| --- | 1 | -- | -- | -- | SPACE | 15 | | 16 | SPACE | -- | -- | -- | 1 | --- |
| --- | 1 | -- | -- | -- | SPACE | 17 | | 18 | SPACE | -- | -- | -- | 1 | --- |
| --- | 1 | -- | -- | -- | SPACE | 19 | | 20 | SPACE | -- | -- | -- | 1 | --- |
| 12.30 | | | | | | | | | | | | | | 6.00 |

TOTAL CONNECTED LOAD: 18.30 KVA
TOTAL CONNECTED AMPS: 76 AMPS

ROMEX CABLE WILL BE PERMITTED WERE ALLOWED BY THE 2020NEC

THIS CONTRACTOR SHALL PROVIDE #10 WIRE FOR HOMERUNS OVER 100FT (SEE NOTE 2 OF PART 2)

ALL PANELS AND DISCONNECTS SHALL BE 22KAIC SERIES RATED WITH MAIN AT 42KAIC.

* PROVIDE AFCI(ARC-FAULT)/GFCI BREAKER AS PER 2020NEC 210.12(B) AND 406.4(D)(4).
** PROVIDE TIMER/CLOCK

| PANEL | AMPS | PHASE | VOLTAGE | MAIN/AIC | MOUNTING | LOCATION | NEMA TYPE | CATALOG NUMBER |
|---|---|---|---|---|---|---|---|---|
| MDP | 600 | 1 | 120/240 | 600A/42KAIC | SURFACE | WALL | 3R | SIEMENS |

| CIRCUIT NUMBER | BREAKER POLE | BREAKER AMPS RATING | BREAKER TYPE | SERVING | WIRE THWN CU | CONDUIT INCH | CONNECTED LOAD AMPS L1 | CONNECTED LOAD AMPS L2 | CONNECTED LOAD AMPS NEUTRAL |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 225 | PLUG IN | PANEL A | 3#4/0 | 2 1/2" | 217 | 217 | 217 |
| 2 | 2 | 225 | PLUG IN | PANEL B | 3#4/0 | 2 1/2" | 198 | 198 | 198 |
| 3 | 2 | 125 | PLUG IN | PANEL C | 3#1 | 1 1/2" | 141 | 141 | 141 |
| 4 | 2 | 150 | PLUG IN | PANEL P | 3#1/0 | 2" | 27 | 27 | 27 |
| 5 | 2 | 125 | PLUG IN | PANEL G | 3#1 | 1 1/2" | 76 | 76 | 76 |
| 6 | 2 | 50 | PLUG IN | CAR CHARGER | 3#6 | 1" | 50 | 50 | 50 |
| 7 | 2 | 50 | PLUG IN | CAR CHARGER | 3#6 | 1" | 50 | 50 | 50 |
| 8 | 2 | 40 | PLUG IN | ELEVATOR | 3#1 | 1 1/2" | 60 | 60 | 60 |
| 9 | --- | --- | --- | SPACE (FOR FUTURE) | --- | --- | --- | --- | --- |
| 10 | --- | --- | --- | SPACE (FOR FUTURE) | --- | --- | --- | --- | --- |
| 11 | --- | --- | --- | SPACE (FOR FUTURE) | --- | --- | --- | --- | --- |
| 12 | --- | --- | --- | SPACE (FOR FUTURE) | --- | --- | --- | --- | --- |
| SEE DEMAND LOAD CALCULATIONS | | | | | | | | | |

THIS PANEL IS RATED TO 42KAIC SERIES RATED WITH PANELS A,B,C,P (SEE ELECTRICAL NOTE 4 OF PART 3 ON E-8)

Daniel F Gutierrez
Digitally signed by Daniel F Gutierrez
DN: c=US, st=Florida, l=Miami, o=DANIEL F GUTIERREZ LICENSE, ou=Electrical Engineer, cn=Daniel F Gutierrez, email=danny@dfgengineers.com
Date: 2025.11.13 14:30:24-05'00'

*"This item has been digitally signed and sealed by Daniel F. Gutierrez on the date adjacent to the seal. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies"*


*DANIEL F. GUTIERREZ, P.E.*
*LIC. #049086*

*29111 KINSINGTON COURT*
*WESLEY CHAPEL*
*PH:(786)499-4167*
*Email: danny@dfgengineers.com*

*DG CONSULTING ENGINEERS, LLC*
*DESIGN — INSPECTIONS*


**NEW RESIDENCE**

# GS JPD 10635 LLC

10635 SW 63 AV
MIAMI, FL

SEAL

DANIEL F. GUTIERREZ LICENSE
No. 49086
STATE OF FLORIDA
PROFESSIONAL ENGINEER

11-13-24


DANIEL F. GUTIERREZ, P.E.
ELECTRICAL ENGINEER
LIC. #049086


**REVISIONS**

| NO. | DESC | DATE |
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**SCHEMATIC SET**

SEAL

BALLI - TRAUTMAN
ARCHITECTURE INTERIORS CONSTRUCTION

JOB NUMBER:
CHECKED BY: GB
ISSUE DATE: Issue Date
SCALE: AS NOTED

SHEET TITLE

ELECTRICAL PANELS

SHEET NUMBER

E-106


COPYRIGHT BALLI-TRAUTMAN ARCHITECTS, LLC
1533 SUNSET DRIVE SUITE 101, CORAL GABLES, FL 33143



Miami Dade County Department of Regulatory and Economic Resources - Job Copy
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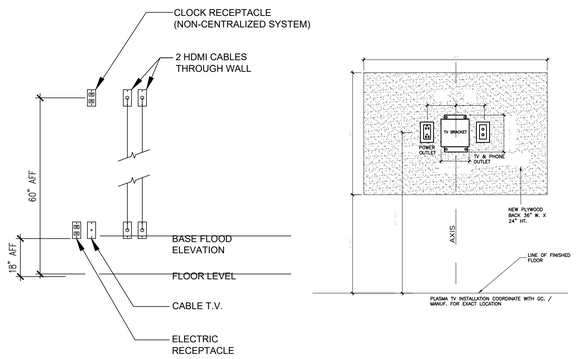
E-106.pdf







## TV OUTLETS DETAILS
N.T.S.

## SERVICE LOAD CALCULATIONS

TOTAL HOUSE AREA: 6,507 SF

| DESCRIPTION | LOAD |
|---|---|
| AS PER NEC PART III (220.42/220.52)<br>GENERAL LIGHTING ( 9.000 x 3 ) ----------<br>SMALL APPLIANCE<br>SUB-TOTAL<br>FIRST 3KVA @ 100%<br>REMAINDER @ 35%<br>TOTAL: | <br>27.02 KVA<br>4.50 KVA<br>31.50 KVA<br>3.00 KVA<br>10.00 KVA<br>13.00 KVA |
| DRYER | 5.00 KVA |
| HOOD & IGNITION(2)<br>REFRIGERATOR(6)<br>WASHER<br>DISHWASHER(3)<br>MICROWAVE<br>GARBAGE DISPOSAL(2)<br>WINE FRIDGE(2)<br>ICE MAKER<br>STEAMER<br>WATER HEATER<br>POOL MOTOR & IRRIGATION<br><br>NEC 220.53<br>total fastened-in-place -----<br>total @ 75% ---------- | 2.00 KVA<br>6.00 KVA<br>1.50 KVA<br>3.60 KVA<br>1.20 KVA<br>2.40 KVA<br>2.40 KVA<br>1.20 KVA<br>15.00 KVA<br>11.00 KVA<br>3.00 KVA<br><br>49.30 KVA<br>36.97 KVA |
| A/C UNITS | 44.00 KVA |
| CAR CHARGER(2) | 20.00 KVA |
| NET COMPUTED LOAD | 119.00 KVA |
| TOTAL AMPS. SERVICE LOAD (1ø, 240V) | 496 AMPS. |

KAIC NOTE: THIS CONTRACTOR SHALL COORDINATE WITH FPL THE KAIC AVAILABLE AND INCREASE OR DECREASE THE KAIC ACCORDINGLY.

**ARCH FLASH HAZARD WARNING. THIS CONTRACTOR SHALL PROVIDE PERMANENT SIGN AT METER, DISCONNECTS, PANELS, ETC AS PER NEC 110.16.**

ELECTRICAL MAIN GROUND SHALL BE BOUNDED TO MAIN GAS PIPE 1#4 CU AS PER NEC 250.52, 250.52(B) AND 250.104(3)(B)

PROVIDE BOUNDING CONDUCTOR OR JUMPER BETWEEN METAL PARTS AS PER 2020NEC EXHIBIT 110.4

PROVIDE BOUNDING CONDUCTOR OR JUMPER BETWEEN METAL PARTS AS PER 2020NEC EXHIBIT 110.4, 250.2 & 250.4

THIS CONTRACTOR SHALL PROVIDE 1#3 THW CU GROUNDING BOUNDING TO METALLIC GAS PIPE

KAIC NOTE: THIS CONTRACTOR SHALL PROCEED AS PER ELECTRICAL NOTE 4 OF PART 3 ON E-1.

PROVIDE INTERSYSTEM BOUNDING BAR AT MAIN DISCONNECT FOR TELEPHONE AND CABLE (COMMUNICATION SYSTEM) SERVICE BOUNDED TO THE ELECTRICAL SERVICE MAIN GROUNDING ELECTRODE SYSTEM (2020NEC SECTION 100)

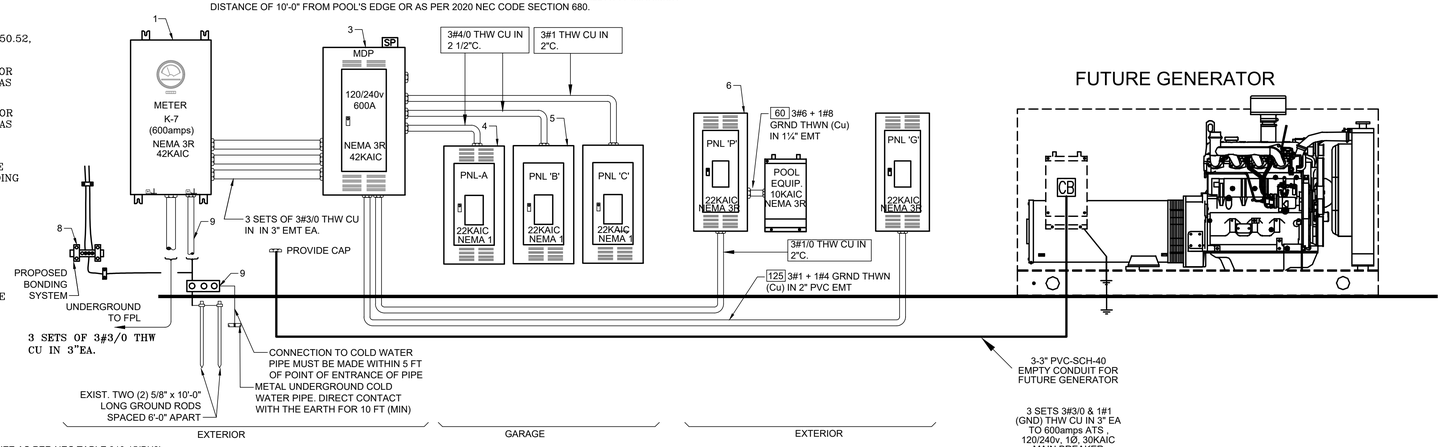
GROUNDING AND BONDING SHALL COMPLY WITH "NEC 250, 680-22, 24 & 25, 250-50/52/53, TABLE 250-66, 250-104, 680-24 & 25". ALL METALLIC RACEWAYS SHALL BE GROUNDED AND BONDED PER "NEC 250". NON-METALLIC RACEWAYS SHALL BE PROVIDED WITH A GROUNDING CONDUCTOR SIZED PER "NEC 250-94/96". PROVIDE 1#8 SOLID BOUNDING CONDUCTOR TO CONNECT ALL METAL PARTS AT THE POOL SUCH AS POOL REINFORCE STEEL, METAL JB'S, PUMP MOTORS, METAL CONDUITS, LIGHTING FIXTURES, METAL SHIELD PRIMARY AND SECONDARY WINDING OF POOL TRANSFORMERS, POOL STAIRS, ETC. TO COMPLY WITH 2020 NEC CODE SECTION 680-22.

OUTLETS AND ANY OTHER EQUIPMENT INSTALLED IN POOL AREA SHALL BE INSTALL AT A MINNIMUN DISTANCE OF 10'-0" FROM POOL'S EDGE OR AS PER 2020 NEC CODE SECTION 680.

FAULT CURRENT FROM FP&L TRANSFORMER AT 21,110 SYMMETRICAL AMPERES @ 120/240 VOLTS (SEE FPL LETTER AT E-106).

KAIC AT METER, PANEL & DISCONNECTS AT 22KAIC.
FAULT CURRENT CALCULATION NOT REQUIRED

ALL PANELS MUST BE SERIES RATED WITH MDP




*SIZE AS PER NEC TABLE 310.15(B)(6)
THIS CONTRACTOR SHALL COORDINATE WITH FP&L THE CONNECTION FOR THIS SERVICE AND REVISE INTERRUPTING CAPACITY AVAILABLE PRIOR INSTALLATION OF ALL DISCONNECTING DEVISES, AND INCREASE THE INTERRUPTING CAPACITY IN PANELS AND DISCONNECTING DEVISES IF REQUIRED.

MOTORS, TRANSFORMERS AND MECHANICAL EQUIPMENT SHALL BE PROVIDED WITH GREENFIELD FLEXIBLE CONNECTIONS, WATERLIGHT WHERE EXPOSED TO MOISTURE AND WEATHER CONDITIONS. MOTORS, TRANSFORMERS AND MECHANICAL EQUIPMENT FOR THE POOL AND JACUZZI PER "NEC 680-42".

## ELECTRICAL RISER DIAGRAM
N.T.S.

Daniel F Gutierrez
Digitally signed by Daniel F Gutierrez
DN: c=US, st=Florida, l=Wesley Chapel, o=DG CONSULTING ENGINEERS, LLC, ou=Florida, ID=LIS 14:30:52-04'00'
Date: 2025.11.13 14:30:52-04'00'

*"This item has been digitally signed and sealed by Daniel F. Gutierrez on the date adjacent to the seal. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies"*


*DANIEL F. GUTIERREZ, P.E.*
*LIC. #049086*

*29111 KINSINGTON COURT*
*WESLEY CHAPEL*
*PH:(786)499-4167*
*Email: danny@dfgengineers.com*

*DG CONSULTING ENGINEERS, LLC*
*DESIGN — INSPECTIONS*


**NEW RESIDENCE**

# GS JPD 10635 LLC

10635 SW 63 AV
MIAMI, FL

SEAL

DANIEL F. GUTIERREZ LICENSE No. 49086 STATE OF FLORIDA PROFESSIONAL ENGINEER

11-13-24

DANIEL F. GUTIERREZ, P.E.
ELECTRICAL ENGINEER LIC. #049086

**REVISIONS**

| NO. | DESC | DATE |
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**SCHEMATIC SET**

SEAL

BALLI - TRAUTMAN
ARCHITECTURE INTERIORS CONSTRUCTION

JOB NUMBER:
CHECKED BY: GB
ISSUE DATE: Issue Date
SCALE: AS NOTED

SHEET TITLE

ELECTRICAL RISER

SHEET NUMBER

E-107


COPYRIGHT BALLI-TRAUTMAN ARCHITECTS, LLC
1533 SUNSET DRIVE SUITE 101, CORAL GABLES, FL 33143



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# *RESIDENTIAL ENERGY CONSERVATION CODE DOCUMENTATION CHECKLIST*

## *Florida Department of Business and Professional Regulation*
## *Simulated Performance Alternative (Performance) Method*

***Applications for compliance with the 2023 Florida Building Code, Energy Conservation via the Residential Simulated Performance Alternative shall include:***

- ☑ *This checklist*
- ☑ *Form R405-2023 report*
- ☑ *Input summary checklist that can be used for field verification (usually four pages/may be greater)*
- ☑ *Energy Performance Level (EPL) Display Card (one page)*
- ☑ *HVAC system sizing and selection based on ACCA Manual S or per exceptions provided in Section R403.7*
- ☑ *Mandatory Requirements (five pages)*

***Required prior to CO:***

- ☑ *Air Barrier and Insulation Inspection Component Criteria checklist (Table R402.4.1.1 - one page)*
- ☑ *A completed 2023 Envelope Leakage Test Report (usually one page); exception in R402.4 allows dwelling units of R-2 Occupancies and multiple attached single family dwellings to comply with Section C402.5*
- ☑ *If Form R405 duct leakage type indicates anything other than "default leakage", then a completed 2023 Duct Leakage Test Report - Performance Method (usually one page)*

.

Daniel F Gutierrez

Digitally signed by Daniel F Gutierrez
DN: CN=Daniel F Gutierrez, dnQualifier=A01410D0000017F0DC0E1C20012913D, O=Florida, C=US
Date: 2024.11.21 19:51:43-05'00'

*"This item has been digitally signed and sealed by Daniel F. Gutierrez on the date adjacent to the seal. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies"*



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FORM R405-2023

# FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

| | | | |
|---|---|---|---|
| Project Name: | GS JPD 10635 LLC | Builder Name: | |
| Street: | 10635 SW 63 Avenue | Permit Office: | |
| City, State, Zip: | Miami, FL, 33154 | Permit Number: | |
| Owner: | GS JPD 10635 LLC | Jurisdiction: | |
| Design Location: | FL, Miami | County: | Miami-Dade(Florida Climate Zone 1) |

| | |
|---|---|
| 1. New construction or existing | New (From Plans) |
| 2. Single family or multiple family | Detached |
| 3. Number of units, if multiple family | 1 |
| 4. Number of Bedrooms | 6 |
| 5. Is this a worst case? | No |
| 6. Conditioned floor area above grade (ft²) | 8030 |
| Conditioned floor area below grade (ft²) | 0 |

| 7. Windows(2018.2 sqft.) | Description | Area |
|---|---|---|
| a. U-Factor: | Sgl, U=1.04 | 2018.20 ft² |
| SHGC: | SHGC=0.24 | |
| b. U-Factor: | N/A | ft² |
| SHGC: | | |
| c. U-Factor: | N/A | ft² |
| SHGC: | | |
| Area Weighted Average Overhang Depth: | | 9.188 ft |
| Area Weighted Average SHGC: | | 0.240 |

| 8. Skylights | Description | Area |
|---|---|---|
| U-Factor:(AVG) | N/A | N/A ft² |
| SHGC(AVG): | N/A | |

| 9. Floor Types | Insulation | Area |
|---|---|---|
| a. Slab-On-Grade Edge Insulation | R= 0.0 | 4822.00 ft² |
| b. Floor Over Other Space | R= 0.0 | 3208.00 ft² |
| c. N/A | R= | ft² |

| 10. Wall Types(7557.0 sqft.) | Insulation | Area |
|---|---|---|
| a. Concrete Block - Int Insul, Exterior | R=4.1 | 7333.00 ft² |
| b. Concrete Block - Int Insul, Adjacent | R=4.1 | 224.00 ft² |
| c. N/A | | |
| d. N/A | | |

| 11. Ceiling Types(8030.0 sqft.) | Insulation | Area |
|---|---|---|
| a. Single assembly, no ai (Unvented) | R=0.0 | 4822.00 ft² |
| b. Single assembly, no ai (Unvented) | R=30.0 | 2082.00 ft² |
| c. other (see details) | R= | 1126.00 ft² |

| | | |
|---|---|---|
| 12. Roof(Metal, Unvent) | Deck R=30.0 | 5083 ft² |

| 13. Ducts, location & insulation level | R | ft² |
|---|---|---|
| a. Sup: Kitchen, Ret: Kitchen, AH: Kitchen | 6 | 100 |
| b. Sup: Family Ro, Ret: Family Ro, AH: Family Ro | 6 | 100 |
| c. 3 additional duct system(s) | (see details) | |

| 14. Cooling Systems | kBtu/hr | Efficiency |
|---|---|---|
| a. Central Unit | 45.5 | SEER2:18.00 |
| b. Central Unit | 35.2 | SEER2:17.50 |
| 3 additional cooling systems | | (see details) |

| 15. Heating Systems | kBtu/hr | Efficiency |
|---|---|---|
| a. Electric Strip Heat | 34.0 | COP:1.00 |
| b. Electric Strip Heat | 34.0 | COP:1.00 |
| 3 additional heating systems | | (see details) |

| | |
|---|---|
| 16. Hot Water Systems | |
| a. ElectricTankless | Cap: 1 gallons |
| | EF: 1.000 |
| b. Conservation features | |
| | None |
| 17. Credits | Pstat |

Glass/Floor Area: 0.251

Total Proposed Modified Loads: 297.90

Total Baseline Loads: 330.96

**PASS**

NOTE: Proposed residence must have annual total normalized Modified Loads that are less than or equal to 95 percent of the annual total loads of the standard reference design in order to comply.

I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code.

PREPARED BY: Daniel F. Gutierrez

DATE: 11-21-24

DANIEL F. GUTIERREZ LICENSE No. 49086 STATE OF FLORIDA PROFESSIONAL ENGINEER

I hereby certify that this building, as designed, is in compliance with the Florida Energy Code.

OWNER/AGENT: _____

DATE: _____

Review of the plans and specifications covered by this calculation indicates compliance with the Florida Energy Code. Before construction is completed this building will be inspected for compliance with Section 553.908 Florida Statutes.

GREAT SEAL OF THE STATE OF FLORIDA IN GOD WE TRUST

BUILDING OFFICIAL: _____

DATE: _____

**- Compliance requires certification by the air handler unit manufacturer that the air handler enclosure qualifies as certified factory-sealed in accordance with R403.3.2.1.**

**- 1 of the 5 duct systems requires a Duct Leakage Test Report. Systems with Default duct leakage do not require this report.**

**- Compliance requires an Air Barrier and Insulation Inspection Checklist in accordance with R402.4.1.1 and this project requires a PERFORMANCE envelope leakage test report with envelope leakage no greater than 4.72 ACH50 (R402.4.1.2).**



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FORM R405-2023

# INPUT SUMMARY CHECKLIST REPORT

## PROJECT

| | | | | | |
|---|---|---|---|---|---|
| Title: | GS JPD 10635 LLC | | | Address type: | Street Address |
| Building Type: | User | Bedrooms: | 6 | Lot #: | --- |
| Owner: | GS JPD 10635 LLC | Conditioned Area: | 8030 | Block/SubDivision: | --- |
| Builder Home ID: | | Total Stories: | 2 | PlatBook: | --- |
| Builder Name: | | Worst Case: | No | Street: | 10635 SW 63 Avenue |
| Permit Office: | | Rotate Angle: | 0 | County: | Miami-Dade |
| Jurisdiction: | | Cross Ventilation: | No | City, State, Zip: | Miami, |
| Family Type: | Detached | Whole House Fan: | No | | FL, 33154 |
| New/Existing: | New (From Plans) | Terrain: | Suburban | | |
| Year Construct: | 2024 | Shielding: | Suburban | | |
| Comment: | New House | | | | |

## CLIMATE

| √ | Design Location | Tmy Site | Design Temp 97.5% | Design Temp 2.5% | Int Design Temp Winter | Int Design Temp Summer | Heating Degree Days | Design Moisture | Daily temp Range |
|---|---|---|---|---|---|---|---|---|---|
| ___ | FL, Miami | FL_MIAMI_INTL_AP | 51 | 90 | 70 | 75 | 149.5 | 56 | Low |

## BLOCKS

| √ | Number | Name | Area | Volume |
|---|---|---|---|---|
| ___ | 1 | Block1 | 2041 | 22451 cu ft |
| ___ | 2 | Block2 | 1406 | 15466 cu ft |
| ___ | 3 | Block3 | 1375 | 15125 cu ft |
| ___ | 4 | Block4 | 2082 | 22902 cu ft |
| ___ | 5 | Block5 | 1126 | 12386 cu ft |

## SPACES

| √ | Number | Name | Area | Volume | Kitchen | Occupants | Bedrooms | Finished | Cooled | Heated |
|---|---|---|---|---|---|---|---|---|---|---|
| ___ | 1 | 2nd Floor | 2082 | 22902 | No | 2 | 4 | Yes | Yes | Yes |
| ___ | 2 | Master Bedroom | 1126 | 12386 | No | 2 | 1 | Yes | Yes | Yes |
| ___ | 3 | 1st Floor | 1375 | 15125 | No | 2 | 1 | Yes | Yes | Yes |
| ___ | 4 | Kitchen | 2041 | 22451 | Yes | 2 | 0 | Yes | Yes | Yes |
| ___ | 5 | Family Room | 1406 | 15466 | No | 0 | 0 | Yes | Yes | Yes |

## FLOORS (Total Exposed Area = 4822 sq.ft.)

| √ | # | Floor Type | Space | Exposed Perim(ft) | Area | R-Value Perim. | R-Value Joist | U-Factor | Slab Insul. Vert/Horiz | Tile | Wood | Carpet |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ___ | 1 | Floor Over Other Space | 2nd Floor | --- | 2082 sqft | --- | 0.0 | 0.230 | ------- | 0.20 | 0.00 | 0.80 |
| ___ | 2 | Floor Over Other Space | Master Bedroom | --- | 1126 sqft | --- | 0.0 | 0.230 | ------- | 0.20 | 0.00 | 0.80 |
| ___ | 3 | Slab-On-Grade Edge Ins | 1st Floor | 80 | 1375 sqft | 0.0 | --- | 0.304 | 2 (ft)/0 (ft) | 0.00 | 0.00 | 1.00 |
| ___ | 4 | Slab-On-Grade Edge Ins | Kitchen | 210 | 2041 sqft | 0.0 | --- | 0.304 | 2 (ft)/0 (ft) | 0.00 | 0.00 | 1.00 |
| ___ | 5 | Slab-On-Grade Edge Ins | Family Room | 210 | 1406 sqft | 0.0 | --- | 0.304 | 2 (ft)/0 (ft) | 0.00 | 0.00 | 1.00 |

## ROOF

| √ | # | Type | Materials | Roof Area | Gable Area | Framing. Fract. | Roof Color | Rad Barr | Solar Absor. | SA Tested | Emitt | Emitt Tested | Deck Insul. | Pitch (deg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ___ | 1 | Hip | Metal | 5083 ft² | 0 ft² | 0.10 | Dark | N | 0.92 | No | 0.9 | No | 30 | 18.43 |



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# INPUT SUMMARY CHECKLIST REPORT

## ATTIC

| √ | # | Type | Ventilation | Vent Ratio (1 in) | Area | RBS | IRCC |
|---|---|---|---|---|---|---|---|
| | 1 | Full attic | Unvented | 0 | 4822 ft² | N | N |

## CEILING (Total Exposed Area = 8030 sq.ft.)

| √ | # | Ceiling Type | Space | R-Value | Ins. Type | Area | U-Factor | Framing Frac. | Truss Type |
|---|---|---|---|---|---|---|---|---|---|
| | 1 | Single assembly, no airspace(Unvented) | 2nd Floor | 30.0 | Batt | 2082.0ft² | 0.032 | 0.11 | Wood |
| | 2 | Flat ceiling under attic(Unvented) | Master Bedroom | 30.0 | Blown | 1126.0ft² | 0.030 | 0.11 | Wood |
| | 3 | Single assembly, no airspace(Unvented) | 1st Floor | 0.0 | Batt | 1375.0ft² | 0.055 | 0.11 | Wood |
| | 4 | Single assembly, no airspace(Unvented) | Kitchen | 0.0 | Batt | 2041.0ft² | 0.055 | 0.11 | Wood |
| | 5 | Single assembly, no airspace(Unvented) | Family Room | 0.0 | Batt | 1406.0ft² | 0.055 | 0.11 | Wood |

## WALLS (Total Exposed Area = 7557 sq.ft.)

| √ | # | Ornt | Adjacent To | Wall Type | Space | Cavity R-Value | Width Ft | Width In | Height Ft | Height In | Area sq.ft. | U-Factor | Sheath R-Value | Frm. Frac. | Solar Absor. | Below Grade |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1 | N | Exterior | Conc. Blk - Int Ins | Kitchen | 4.1 | 82.0 | 10 | 12.0 | 0 | 994.0 | 0.149 | 0 | 0 | 0.60 | 0 % |
| | 2 | W | Garage | Conc. Blk - Int Ins | Kitchen | 4.1 | 18.0 | 8 | 12.0 | 0 | 224.0 | 0.149 | 0 | 0 | 0.60 | 0 % |
| | 3 | S | Exterior | Conc. Blk - Int Ins | Kitchen | 4.1 | 18.0 | 0 | 12.0 | 0 | 216.0 | 0.149 | 0 | 0 | 0.60 | 0 % |
| | 4 | W | Exterior | Conc. Blk - Int Ins | 1st Floor | 4.1 | 33.0 | 5 | 12.0 | 0 | 401.0 | 0.149 | 0 | 0 | 0.60 | 0 % |
| | 5 | W | Exterior | Conc. Blk - Int Ins | Family Room | 4.1 | 23.0 | 5 | 12.0 | 0 | 281.0 | 0.149 | 0 | 0 | 0.01 | 0 % |
| | 6 | S | Exterior | Conc. Blk - Int Ins | Family Room | 4.1 | 68.0 | 2 | 12.0 | 0 | 818.0 | 0.149 | | 0 | 0.75 | 0 % |
| | 7 | E | Exterior | Conc. Blk - Int Ins | Family Room | 4.1 | 23.0 | 5 | 12.0 | 0 | 281.0 | 0.149 | | 0 | 0.75 | 0 % |
| | 8 | N | Exterior | Conc. Blk - Int Ins | Family Room | 4.1 | 20.0 | 2 | 12.0 | 0 | 242.0 | 0.149 | | 0 | 0.75 | 0 % |
| | 9 | E | Exterior | Conc. Blk - Int Ins | 1st Floor | 4.1 | 33.0 | 5 | 12.0 | 0 | 401.0 | 0.149 | | 0 | 0.75 | 0 % |
| | 10 | S | Exterior | Conc. Blk - Int Ins | Kitchen | 4.1 | 20.0 | 2 | 12.0 | 0 | 242.0 | 0.149 | | 0 | 0.75 | 0 % |
| | 11 | E | Exterior | Conc. Blk - Int Ins | Kitchen | 4.1 | 27.0 | 6 | 12.0 | 0 | 330.0 | 0.149 | | 0 | 0.75 | 0 % |
| | 12 | W | Exterior | Conc. Blk - Int Ins | 2nd Floor | 4.1 | 17.0 | 0 | 12.0 | 0 | 204.0 | 0.149 | | 0 | 0.75 | 0 % |
| | 13 | W | Exterior | Conc. Blk - Int Ins | 2nd Floor | 4.1 | 44.0 | 0 | 12.0 | 0 | 528.0 | 0.149 | | 0 | 0.75 | 0 % |
| | 14 | N | Exterior | Conc. Blk - Int Ins | 2nd Floor | 4.1 | 42.0 | 1 | 12.0 | 0 | 505.0 | 0.149 | | 0 | 0.75 | 0 % |
| | 15 | E | Exterior | Conc. Blk - Int Ins | 2nd Floor | 4.1 | 57.0 | 6 | 12.0 | 0 | 690.0 | 0.149 | | 0 | 0.75 | 0 % |
| | 16 | E | Exterior | Conc. Blk - Int Ins | Master Bedroom | 4.1 | 26.0 | 11 | 12.0 | 0 | 323.0 | 0.149 | | 0 | 0.75 | 0 % |
| | 17 | S | Exterior | Conc. Blk - Int Ins | Master Bedroom | 4.1 | 50.0 | 4 | 12.0 | 0 | 604.0 | 0.149 | | 0 | 0.75 | 0 % |
| | 18 | W | Exterior | Conc. Blk - Int Ins | Master Bedroom | 4.1 | 22.0 | 9 | 12.0 | 0 | 273.0 | 0.149 | | 0 | 0.75 | 0 % |

## DOORS (Total Exposed Area = 40 sq.ft.)

| √ | # | Ornt | Adjacent To | Door Type | Space | Storms | U-Value | Width Ft | Width In | Height Ft | Height In | Area |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1 | W | | Wood | Kitchen | Metal | 0.75 | 3.00 | 0 | 6.00 | 8 | 20.0ft² |
| | 2 | N | | Wood | Family Room | Metal | 0.75 | 3.00 | 0 | 6.00 | 8 | 20.0ft² |

## WINDOWS (Total Exposed Area = 2018 sq.ft.)

| √ | # | Ornt | Wall ID | Frame | Panes | NFRC | U-Factor | SHGC | Imp | Storm | Total Area (ft²) | Same Units | Width (ft) | Height (ft) | --Overhang-- Depth (ft) | --Overhang-- Sep. (ft) | Interior Shade | Screen |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1 | N | 1 | Metal | Single (Tinted) | Y | 1.04 | 0.24 | Y | N | 79.9 | 1 | 8.33 | 9.58 | 3.0 | 11.0 | Drapes/blinds | None |
| | 2 | N | 1 | Metal | Single (Tinted) | Y | 1.04 | 0.24 | Y | N | 21.0 | 1 | 4.58 | 4.58 | 3.0 | 7.0 | Drapes/blinds | None |
| | 3 | N | 1 | Metal | Single (Tinted) | Y | 1.04 | 0.24 | Y | N | 39.7 | 1 | 8.67 | 4.58 | 3.0 | 7.0 | Drapes/blinds | None |
| | 4 | S | 3 | Metal | Single (Tinted) | Y | 1.04 | 0.24 | Y | N | 18.0 | 1 | 4.50 | 4.00 | 10.0 | 7.0 | Drapes/blinds | None |
| | 5 | W | 4 | Metal | Single (Tinted) | Y | 1.04 | 0.24 | Y | N | 127.4 | 1 | 11.58 | 11.00 | 10.0 | 11.0 | Drapes/blinds | None |
| | 6 | W | 4 | Metal | Single (Tinted) | Y | 1.04 | 0.24 | Y | N | 73.3 | 1 | 6.67 | 11.00 | 10.0 | 11.0 | Drapes/blinds | None |
| | 7 | W | 5 | Metal | Single (Tinted) | Y | 1.04 | 0.24 | Y | N | 89.8 | 1 | 7.75 | 11.58 | 5.0 | 11.0 | Drapes/blinds | None |



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# INPUT SUMMARY CHECKLIST REPORT

## WINDOWS(Continued)

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ___ 8 | W | 5 | Metal | Single (Tinted) | Y | 1.04 | 0.24 | Y | N | 9.5 | 1 | 2.08 | 4.58 | 5.0 | 9.0 | Drapes/blinds | None |
| ___ 9 | S | 6 | Metal | Single (Tinted) | Y | 1.04 | 0.24 | Y | N | 34.5 | 1 | 3.00 | 11.50 | 0.0 | 0.0 | Drapes/blinds | None |
| ___ 10 | E | 7 | Metal | Single (Tinted) | Y | 1.04 | 0.24 | Y | N | 170.6 | 1 | 14.83 | 11.50 | 3.0 | 12.0 | Drapes/blinds | None |
| ___ 11 | N | 8 | Metal | Single (Tinted) | Y | 1.04 | 0.24 | Y | N | 170.6 | 1 | 14.83 | 11.50 | 20.0 | 11.0 | Drapes/blinds | None |
| ___ 12 | E | 9 | Metal | Single (Tinted) | Y | 1.04 | 0.24 | Y | N | 284.8 | 1 | 24.58 | 11.58 | 23.0 | 12.0 | Drapes/blinds | None |
| ___ 13 | S | 10 | Metal | Single (Tinted) | Y | 1.04 | 0.24 | Y | N | 56.0 | 1 | 4.83 | 11.58 | 20.0 | 12.0 | Drapes/blinds | None |
| ___ 14 | E | 11 | Metal | Single (Tinted) | Y | 1.04 | 0.24 | Y | N | 171.8 | 1 | 14.83 | 11.58 | 20.0 | 12.0 | Drapes/blinds | None |
| ___ 15 | W | 12 | Metal | Single (Tinted) | Y | 1.04 | 0.24 | Y | N | 135.9 | 1 | 15.83 | 8.58 | 3.0 | 11.0 | Drapes/blinds | None |
| ___ 16 | W | 13 | Metal | Single (Tinted) | Y | 1.04 | 0.24 | Y | N | 64.4 | 1 | 7.50 | 8.58 | 0.0 | 0.0 | Drapes/blinds | None |
| ___ 17 | N | 14 | Metal | Single (Tinted) | Y | 1.04 | 0.24 | Y | N | 7.3 | 1 | 1.58 | 4.58 | 0.0 | 0.0 | Drapes/blinds | None |
| ___ 18 | N | 14 | Metal | Single (Tinted) | Y | 1.04 | 0.24 | Y | N | 53.5 | 1 | 5.58 | 9.58 | 0.0 | 0.0 | Drapes/blinds | None |
| ___ 19 | E | 15 | Metal | Single (Tinted) | Y | 1.04 | 0.24 | Y | N | 64.4 | 1 | 7.50 | 8.58 | 0.0 | 0.0 | Drapes/blinds | None |
| ___ 20 | E | 15 | Metal | Single (Tinted) | Y | 1.04 | 0.24 | Y | N | 19.1 | 2 | 2.08 | 4.58 | 0.0 | 0.0 | Drapes/blinds | None |
| ___ 21 | E | 15 | Metal | Single (Tinted) | Y | 1.04 | 0.24 | Y | N | 81.5 | 1 | 9.50 | 8.58 | 0.0 | 0.0 | Drapes/blinds | None |
| ___ 22 | E | 16 | Metal | Single (Tinted) | Y | 1.04 | 0.24 | Y | N | 81.5 | 1 | 9.50 | 8.58 | 0.0 | 0.0 | Drapes/blinds | None |
| ___ 23 | S | 17 | Metal | Single (Tinted) | Y | 1.04 | 0.24 | Y | N | 91.0 | 1 | 9.50 | 9.58 | 0.0 | 0.0 | Drapes/blinds | None |
| ___ 24 | W | 18 | Metal | Single (Tinted) | Y | 1.04 | 0.24 | Y | N | 72.7 | 1 | 7.58 | 9.58 | 0.0 | 0.0 | Drapes/blinds | None |

## INFILTRATION

| √ | # | Scope | Method | SLA | CFM50 | ELA | EqLA | ACH | ACH50 | Space(s) | Infiltration Test Volume |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ___ | 1 | Wholehouse | Proposed ACH(50) | 0.00033 | 6951 | 381.34 | 715.92 | 0.1496 | 4.7 | All | 88330 cu ft |

## GARAGE

| √ | # | Floor Area | Length | Width | Roof Area | Exposed Perimeter | Area Under Uncond. | Avg. Wall Height | Exposed Wall Insulation |
|---|---|---|---|---|---|---|---|---|---|
| ___ | 1 | 748 ft² | 22.0 ft² | 34.0 ft² | 748 ft² | 64 ft | 748 ft | 8 ft | 1 |

## MASS

| √ | # | Mass Type | Area | Thickness | Furniture Fraction | Space |
|---|---|---|---|---|---|---|
| ___ | 1 | Default(8 lbs/sq.ft.) | 0 ft² | 0 ft | 0.30 | 2nd Floor |
| ___ | 2 | Default(8 lbs/sq.ft.) | 0 ft² | 0 ft | 0.30 | Master Bedroom |
| ___ | 3 | Default(8 lbs/sq.ft.) | 0 ft² | 0 ft | 0.30 | 1st Floor |
| ___ | 4 | Default(8 lbs/sq.ft.) | 0 ft² | 0 ft | 0.30 | Kitchen |
| ___ | 5 | Default(8 lbs/sq.ft.) | 0 ft² | 0 ft | 0.30 | Family Room |

## HEATING SYSTEM

| √ | # | System Type | Subtype | AHRI # | Efficiency | Capacity kBtu/hr | ----Geothermal HeatPump---- Entry | Power | Volt | Current | Ducts | Block |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ___ | 1 | Electric Strip Heat | None | | COP: 1.00 | 34.0 | | 0.00 | 0.00 | 0.00 | sys#1 | 1 |
| ___ | 2 | Electric Strip Heat | None | | COP: 1.00 | 34.0 | | 0.00 | 0.00 | 0.00 | sys#2 | 2 |
| ___ | 3 | Electric Strip Heat | None | | COP: 1.00 | 34.0 | | 0.00 | 0.00 | 0.00 | sys#3 | 3 |
| ___ | 4 | Electric Strip Heat | None | | COP: 1.00 | 34.0 | | 0.00 | 0.00 | 0.00 | sys#4 | 4 |
| ___ | 5 | Electric Strip Heat | None | | COP: 1.00 | 34.0 | | 0.00 | 0.00 | 0.00 | sys#5 | 5 |



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FORM R405-2023

# INPUT SUMMARY CHECKLIST REPORT

## COOLING SYSTEM

| ✓ | # | System Type | Subtype/Speed | AHRI # | Efficiency | Capacity kBtu/hr | Air Flow cfm | SHR | Duct | Block |
|---|---|---|---|---|---|---|---|---|---|---|
| ___ | 1 | Central Unit | Split/Single | | SEER2:18.0 | 45.5 | 1365 | 0.75 | sys#1 | 1 |
| ___ | 2 | Central Unit | Split/Single | | SEER2:17.5 | 35.2 | 1056 | 0.75 | sys#2 | 2 |
| ___ | 3 | Central Unit | Split/Single | | SEER2:17.5 | 35.2 | 1056 | 0.75 | sys#3 | 3 |
| ___ | 4 | Central Unit | Split/Single | | SEER2:18.0 | 45.5 | 1365 | 0.75 | sys#4 | 4 |
| ___ | 5 | Central Unit | Split/Single | | SEER2:17.5 | 24.2 | 726 | 0.75 | sys#5 | 5 |

## HOT WATER SYSTEM

| ✓ | # | System Type | Subtype | Location | EF(UEF) | Cap | Use | SetPnt | Fixt. Flow | Trap | Pipe Ins. | Pipe length |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ___ | 1 | Electric | Tankless | 1st Floor | 1.00 (1.00) | 1.0 gal | 70 gal | 120 deg | Standard | Yes | =>R-3 | 99 |

| | | Recirculation System | Recirc Control Type | Loop length | Branch length | Pump power | DWHR | Facilities Connected | Equal Flow | DWHR Eff | Other Credits |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ___ | 1 | No | | NA | NA | NA | No | NA | NA | NA | None |

## DUCTS

| ✓ | Duct # | Supply Location | Supply R-Value | Supply Area | Return Location | Return R-Value | Return Area | Leakage Type | AHU Location | CFM 25 TOT\|OUT | QN OUT | AHU SEALED | RLF | HVAC # Heat | HVAC # Cool |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ___ | 1 | Kitchen | 6.0 | 100 ft² | Kitchen | 6.0 | 60 ft² | Prop. Leak Free | Kitchen | ---\|--- | 0.030 | Yes | 0.60 | 1 | 1 |
| ___ | 2 | Family Room | 6.0 | 100 ft² | Family Room | 6.0 | 30 ft² | Default Leakage | Family Roo | (Default) | (Default) | | | 2 | 2 |
| ___ | 3 | 1st Floor | 6.0 | 100 ft² | 1st Floor | 6.0 | 30 ft² | Default Leakage | Family Roo | (Default) | (Default) | | | 3 | 3 |
| ___ | 4 | 2nd Floor | 6.0 | 100 ft² | 2nd Floor | 6.0 | 30 ft² | Default Leakage | 2nd Floor | (Default) | (Default) | | | 4 | 4 |
| ___ | 5 | Master Bedroo | 6.0 | 100 ft² | Master Bedroo | 6.0 | 30 ft² | Default Leakage | Master Bed | (Default) | (Default) | | | 5 | 5 |

## TEMPERATURES

Programable Thermostat: Y  Ceiling Fans: N

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Cooling | [X] Jan | [X] Feb | [X] Mar | [X] Apr | [X] May | [X] Jun | [X] Jul | [X] Aug | [X] Sep | [X] Oct | [X] Nov | [X] Dec |
| Heating | [X] Jan | [X] Feb | [X] Mar | [X] Apr | [X] May | [X] Jun | [X] Jul | [X] Aug | [X] Sep | [X] Oct | [X] Nov | [X] Dec |
| Venting | [X] Jan | [X] Feb | [X] Mar | [X] Apr | [X] May | [X] Jun | [X] Jul | [X] Aug | [X] Sep | [X] Oct | [X] Nov | [X] Dec |

| ✓ | Thermostat Schedule: HERS 2006 Reference Schedule Type | | Hours 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ___ | Cooling (WD) | AM | 78 | 78 | 78 | 78 | 78 | 78 | 78 | 78 | 80 | 80 | 80 | 80 |
| | | PM | 80 | 80 | 78 | 78 | 78 | 78 | 78 | 78 | 78 | 78 | 78 | 78 |
| ___ | Cooling (WEH) | AM | 78 | 78 | 78 | 78 | 78 | 78 | 78 | 78 | 78 | 78 | 78 | 78 |
| | | PM | 78 | 78 | 78 | 78 | 78 | 78 | 78 | 78 | 78 | 78 | 78 | 78 |
| ___ | Heating (WD) | AM | 66 | 66 | 66 | 66 | 66 | 68 | 68 | 68 | 68 | 68 | 68 | 68 |
| | | PM | 68 | 68 | 68 | 68 | 68 | 68 | 68 | 68 | 68 | 68 | 66 | 66 |
| ___ | Heating (WEH) | AM | 66 | 66 | 66 | 66 | 66 | 68 | 68 | 68 | 68 | 68 | 68 | 68 |
| | | PM | 68 | 68 | 68 | 68 | 68 | 68 | 68 | 68 | 68 | 68 | 66 | 66 |



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FORM R405-2023

# ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

## ESTIMATED ENERGY PERFORMANCE INDEX* = 90

The lower the EnergyPerformance Index, the more efficient the home.

10635 SW 63 Avenue,Miami,FL,33154

| | | |
|---|---|---|
| 1. New construction or existing | | New (From Plans) |
| 2. Single family or multiple family | | Detached |
| 3. Number of units, if multiple family | | 1 |
| 4. Number of Bedrooms | | 6 |
| 5. Is this a worst case? | | No |
| 6. Conditioned floor area above grade (ft²) | | 8030 |
| Conditioned floor area below grade (ft²) | | 0 |

| 7. Windows** | Description | Area |
|---|---|---|
| a. U-Factor: | Sgl, U=1.04 | 2018.20 ft² |
| SHGC: | SHGC=0.24 | |
| b. U-Factor: | N/A | ft² |
| SHGC: | | |
| c. U-Factor: | N/A | ft² |
| SHGC: | | |
| Area Weighted Average Overhang Depth: | | 9.188 ft |
| Area Weighted Average SHGC: | | 0.240 |

| 8. Skylights | Description | Area |
|---|---|---|
| U-Factor:(AVG) | N/A | N/A ft² |
| SHGC(AVG): | N/A | |

| 9. Floor Types | Insulation | Area |
|---|---|---|
| a. Slab-On-Grade Edge Insulation | R= 0.0 | 4822.00 ft² |
| b. Floor Over Other Space | R= 0.0 | 3208.00 ft² |
| c. N/A | R= | ft² |

| 10. Wall Types(7557.0 sqft.) | Insulation | Area |
|---|---|---|
| a. Concrete Block - Int Insul, Exterior | R=4.1 | 7333.00 ft² |
| b. Concrete Block - Int Insul, Adjacent | R=4.1 | 224.00 ft² |
| c. N/A | | |
| d. N/A | | |

| 11. Ceiling Types(8030.0 sqft.) | Insulation | Area |
|---|---|---|
| a. Single assembly, no ai (Unvented) | R=0.0 | 4822.00 ft² |
| b. Single assembly, no ai (Unvented) | R=30.0 | 2082.00 ft² |
| c. other (see details) | R= | 1126.00 ft² |

| 12. Roof(Metal, Unvent) | Deck R=30.0 | 5083 ft² |
|---|---|---|

| 13. Ducts, location & insulation level | R | ft² |
|---|---|---|
| a. Sup: Kitchen, Ret: Kitchen, AH: Kitchen | 6 | 100 |
| b. Sup: Family Ro, Ret: Family Ro, AH: Family Ro | 6 | 100 |
| c. 3 additional duct system(s) | | (see details) |

| 14. Cooling Systems | kBtu/hr | Efficiency |
|---|---|---|
| a. Central Unit | 45.5 | SEER2:18.00 |
| b. Central Unit | 35.2 | SEER2:17.50 |
| 3 additional cooling systems | | (see details) |

| 15. Heating Systems | kBtu/hr | Efficiency |
|---|---|---|
| a. Electric Strip Heat | 34.0 | COP:1.00 |
| b. Electric Strip Heat | 34.0 | COP:1.00 |
| 3 additional heating systems | | (see details) |

| 16. Hot Water Systems | |
|---|---|
| a. ElectricTankless | Cap: 1 gallons |
| | EF: 1.000 |
| b. Conservation features | |
| | None |
| 17. Credits | Pstat |

I certify that this home has complied with the Florida Energy Efficiency Code for Building Construction through the above energy saving features which will be installed (or exceeded) in this home before final inspection. Otherwise, a new EPL Display Card will be completed based on installed Code compliant features.

Builder Signature: _____ Date: _____

Address of New Home: 10635 SW 63 Avenue City/FL Zip: Miami,FL,33154

*Note: This is not a Building Energy Rating. If your Index is below 70, your home may qualify for energy efficient mortgage (EEM) incentives if you obtain a Florida Energy Rating. For information about the Florida Building Code, Energy Conservation, contact the Florida Building Commission's support staff.

**Label required by Section R303.1.3 of the Florida Building Code, Energy Conservation, if not DEFAULT.



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# Florida Building Code, Energy Conservation, 8th Edition (2023)
# Mandatory Requirements for Residential Performance, Prescriptive and ERI Methods

| | | | |
|---|---|---|---|
| ADDRESS: | 10635 SW 63 Avenue<br>Miami, FL 33154 | Permit Number: | |

## MANDATORY REQUIREMENTS - See individual code sections for full details.

## SECTION R401 GENERAL

☑ **R401.3 Energy Performance Level (EPL) display card - (Mandatory).** The building official shall require that an energy performance level (EPL) display card be completed and certified by the builder to be accurate and correct before final approval of the building for occupancy. Florida law (Section 553.9085, Florida Statutes) requires the EPL display card to be included as an addendum to each sales contract for both presold and nonpresold residential buildings. The EPL display card contains information indicating the energy performance level and efficiencies of components installed in a dwelling unit. The building official shall verify that the EPL display card completed and signed by the builder accurately reflects the plans and specifications submitted to demonstrate code compliance for the building. A copy of the EPL display card can be found in Appendix RD.

## SECTION R402 BUILDING THERMAL ENVELOPE

☑ **R402.2.10.1 Slab-on-grade floor insulation installation (Mandatory).** Where installed, the insulation shall extend downward from the top of the slab on the outside or inside of the foundation wall. Insulation located below grade shall be extended the distance provided in Table R402.1.2, or the distance of the proposed design as applicable, by any combination of vertical insulation, insulation extending under the slab or insulation extending out from the building. Insulation extending away from the building shall be protected by pavement or by not less than 10 inches (254 mm) of soil. The top edge of the insulation installed between the exterior wall and the edge of the interior slab shall be permitted to be cut at a 45-degree (0.79 rad) angle away from the exterior wall.

☐ **R402.2.11.1 Crawl space walls insulation installation (Mandatory).** Where crawl space wall insulation is installed, it shall be permanently fastened to the wall and extend downward from the floor to the finished grade level and then vertically and/or horizontally for at least an additional 24 inches (610 mm). Exposed earth in unvented crawl space foundations shall be covered with a continuous Class I vapor retarder in accordance with the Florida Building Code, Building, or Florida Building Code, Residential, as applicable. All joints of the vapor retarder shall overlap by 6 inches (153 mm) and be sealed or taped. The edges of the vapor retarder shall extend not less than 6 inches (153 mm) up the stem wall and shall be attached to the stem wall.

☑ **R402.4 Air leakage (Mandatory).** The building thermal envelope shall be constructed to limit air leakage in accordance with the requirements of Sections R402.4.1 through R402.4.5.

> **Exception:** Dwelling units of R-2 Occupancies and multiple attached single family dwellings shall be permitted to comply with Section C402.5.

☐ **R402.4.1 Building thermal envelope.** The building thermal envelope shall comply with Sections R402.4.1.1 and R402.4.1.2. The sealing methods between dissimilar materials shall allow for differential expansion and contraction.

☑ **R402.4.1.1 Installation.** The components of the building thermal envelope as listed in Table R402.4.1.1 shall be installed in accordance with the manufacturer's instructions and the criteria listed in Table R402.4.1.1, as applicable to the method of construction. Where required by the code official, an approved third party shall inspect all components and verify compliance.

☑ **R402.4.1.2 Testing.** The building or dwelling unit shall be tested and verified as having an air leakage rate not exceeding seven air changes per hour in Climate Zones 1 and 2, and three air changes per hour in Climate Zones 3 through 8. Dwelling units with an air leakage rate less than three air changes per hour shall be provided with whole-house mechanical ventilation in accordance with Section R403.6.1 of this code and Section M1507.3 of the Florida Building Code, Residential. Testing shall be conducted in accordance with ANSI/RESNET/ICC 380 and reported at a pressure of 0.2 inch w.g. (50 pascals). Testing shall be conducted by either individuals as defined in Section 553.993(5) or (7), Florida Statutes, or individuals licensed as set forth in Section 489.105(3)(f), (g) or (i) or an approved third party. A written report of the results of the test shall be signed by the party conducting the test and provided to the code official. Testing shall be performed at any time after creation of all penetrations of the building thermal envelope.

> **Exception:** Testing is not required for additions, alterations, renovations, or repairs, of the building thermal envelope of existing buildings in which the new construction is less than 85 percent of the building thermal envelope.

During testing:
1. Exterior windows and doors, fireplace and stove doors shall be closed, but not sealed, beyond the intended weatherstripping or other infiltration control measures.
2. Dampers including exhaust, intake, makeup air, backdraft and flue dampers shall be closed, but not sealed beyond intended infiltration control measures.
3. Interior doors, if installed at the time of the test, shall be open.
4. Exterior doors for continuous ventilation systems and heat recovery ventilators shall be closed and sealed.
5. Heating and cooling systems, if installed at the time of the test, shall be turned off.
6. Supply and return registers, if installed at the time of the test, shall be fully open.
7. If an attic is both air sealed and insulated at the roof deck, interior access doors and hatches between the conditioned space volume and the attic shall be opened during the test and the volume of the attic shall be added to the conditioned space volume for purposes of reporting an infiltration volume and calculating the air leakage of the home.


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☐ **R402.4.2 Fireplaces.** New wood-burning fireplaces shall have tight-fitting flue dampers or doors, and outdoor combustion air. Where using tight-fitting doors on factory-built fireplaces listed and labeled in accordance with UL 127, the doors shall be tested and listed for the fireplace. Where using tight-fitting doors on masonry fireplaces, the doors shall be listed and labeled in accordance with UL 907.

☑ **R402.4.3 Fenestration air leakage.** Windows, skylights and sliding glass doors shall have an air infiltration rate of no more than 0.3 cfm per square foot (1.5 L/s/m2), and swinging doors no more than 0.5 cfm per square foot (2.6 L/s/m2), when tested according to NFRC 400 or AAMA/ WDMA/CSA 101/I.S.2/A440 by an accredited, independent laboratory and listed and labeled by the manufacturer.

**Exception:** Site-built windows, skylights and doors.

☐ **R402.4.4 Rooms containing fuel - burning appliances.** In Climate Zones 3 through 8, where open combustion air ducts provide combustion air to open combustion fuel burning appliances, the appliances and combustion air opening shall be located outside the building thermal envelope or enclosed in a room, isolated from inside the thermal envelope. Such rooms shall be sealed and insulated in accordance with the envelope requirements of Table R402.1.2, where the walls, floors and ceilings shall meet not less than the basement wall R-value requirement. The door into the room shall be fully gasketed and any water lines and ducts in the room insulated in accordance with Section R403. The combustion air duct shall be insulated where it passes through conditioned space to a minimum of R-8.

**Exceptions:**

1. Direct vent appliances with both intake and exhaust pipes installed continuous to the outside.
2. Fireplaces and stoves complying with Section R402.4.2 and Section R1006 of the Florida Building Code, Residential.

☑ **R402.4.5 Recessed lighting.** Recessed luminaires installed in the building thermal envelope shall be sealed to limit air leakage between conditioned and unconditioned spaces. All recessed luminaires shall be IC-rated and labeled as having an air leakage rate not more than 2.0 cfm (0.944 L/s) when tested in accordance with ASTM E283 at a 1.57 psf (75 Pa) pressure differential. All recessed luminaires shall be sealed with a gasket or caulk between the housing and the interior wall or ceiling covering.

☑ **R402.4.6 Air-sealed electrical and communication boxes.** Air-sealed electrical and communication boxes that penetrate the air barrier of the building thermal envelope shall be caulked, taped, gasketed, or otherwise sealed to the air barrier element being penetrated. Air-sealed boxes shall be buried in or surrounded by insulation. Air-sealed boxes shall be marked in accordance with NEMA OS 4. Air-sealed boxes shall be installed in accordance with the manufacturer's instructions.

## SECTION R403 SYSTEMS

**R403.1 Controls**

☑ **R403.1.1 Thermostat provision (Mandatory).** At least one thermostat shall be provided for each separate heating and cooling system

☑ **R403.1.3 Heat pump supplementary heat (Mandatory).** Heat pumps with supplementary electric-resistance heaters shall have controls that limit supplemental heat operation to only those times when one of the following applies:

1. The vapor compression cycle cannot provide the necessary heating energy to satisfy the thermostat setting.
2. The heat pump is operating in defrost mode.
3. The vapor compression cycle malfunctions.
4. The thermostat malfunctions

☑ **R403.3.2 Sealing (Mandatory).** All ducts, air handlers, filter boxes and building cavities that form the primary air containment passageways for air distribution systems shall be considered ducts or plenum chambers, shall be constructed and sealed in accordance with Section C403.2.9.2 of the Commercial Provisions of this code and shall be shown to meet duct tightness criteria below.

Duct tightness shall be verified by testing in accordance with ANSI/RESNET/ICC 380 by either individuals as defined in Section 553.993(5) or (7), Florida Statutes, or individuals licensed as set forth in Section 489.105(3)(f), (g) or (i), Florida Statutes, to be “substantially leak free” in accordance with Section R403.3.3.

☑ **R403.3.2.1 Sealed air handler.** Air handlers shall have a manufacturer’s designation for an air leakage of no more than 2 percent of the design airflow rate when tested in accordance with ASHRAE 193.

☑ **R403.3.3 Duct testing (Mandatory).** Ducts shall be pressure tested to determine air leakage by one of the following methods:

1. Rough-in test: Total leakage shall be measured with a pressure differential of 0.1 inch w.g. (25 Pa) across the system, including the manufacturer’s air handler enclosure if installed at the time of the test. All registers shall be taped or otherwise sealed during the test.

2 Postconstruction test: Total leakage shall be measured with a pressure differential of 0.1 inch w.g. (25 Pa) across the entire system, including the manufacturer’s air handler enclosure. Registers shall be taped or otherwise sealed during the test.

**Exceptions;**

1. A duct air leakage test shall not be required where the ducts and air handlers are located entirely within the building thermal envelope.
2. Duct testing is not mandatory for buildings complying by Section 405 of this code. Duct leakage testing is required for Section R405 compliance where credit is taken for leakage, and a duct air leakage Qn to the outside of less than 0.080 (where Qn = duct leakage to the outside in cfm per 100 square feet of conditioned floor area tested at 25 Pascals) is indicated in the compliance report for the proposed design.

A written report of the results of the test shall be signed by the party conducting the test and provided to the code official



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# Florida Building Code, Energy Conservation, Mandatory Requirements (2023 Continued)

☑ **R403.3.5 Building cavities (Mandatory).** Building framing cavities shall not be used as ducts or plenums

☑ **R403.4 Mechanical system piping insulation (Mandatory).** Mechanical system piping capable of carrying fluids above 105°F (41°C) or below 55°F (13°C) shall be insulated to a minimum of R-3.

☑ **R403.4.1 Protection of piping insulation.** Piping insulation exposed to weather shall be protected from damage, including that caused by sunlight, moisture, equipment maintenance and wind, and shall provide shielding from solar radiation that can cause degradation of the material. Adhesive tape shall not be permitted.

☑ **R403.5.1 Heated water circulation and temperature maintenance systems (Mandatory).** If heated water circulation systems are installed, they shall be in accordance with Section R403.5.1.1. Heat trace temperature maintenance systems shall be in accordance with Section R403.5.1.2. Automatic controls, temperature sensors and pumps shall be accessible. Manual controls shall be readily accessible.

☑ **R403.5.1.1 Circulation systems.** Heated water circulation systems shall be provided with a circulation pump. The system return pipe shall be a dedicated return pipe or a cold water supply pipe. Gravity and thermosiphon circulation systems shall be prohibited. Controls for circulating hot water system pumps shall start the pump based on the identification of a demand for hot water within the occupancy. The controls shall automatically turn off the pump when the water in the circulation loop is at the desired temperature and when there is no demand for hot water.

☐ **R403.5.1.2 Heat trace systems.** Electric heat trace systems shall comply with IEEE 515.1 or UL 515. Controls for such systems shall automatically adjust the energy input to the heat tracing to maintain the desired water temperature in the piping in accordance with the times when heated water is used in the occupancy.

☐ **R403.5.2 Demand recirculation water systems (Mandatory).** Where installed, demand recirculation water systems shall have controls that comply with both of the following:

1. The control shall start the pump upon receiving a signal from the action of a user of a fixture or appliance, sensing the presence of a user of a fixture or sensing the flow of hot or tempered water to a fixture fitting or appliance.
2. The control shall limit the temperature of the water entering the cold water piping to 104ºF (40ºC).

☑ **R403.5.5 Heat traps (Mandatory).** Storage water heaters not equipped with integral heat traps and having vertical pipe risers shall have heat traps installed on both the inlets and outlets. External heat traps shall consist of either a commercially available heat trap or a downward and upward bend of at least 3 ½ inches (89 mm) in the hot water distribution line and cold water line located as close as possible to the storage tank.

**R403.5.6 Water heater efficiencies (Mandatory).**

☑ **R403.5.6.1.1 Automatic controls.** Service water-heating systems shall be equipped with automatic temperature controls capable of adjustment from the lowest to the highest acceptable temperature settings for the intended use. The minimum temperature setting range shall be from 100°F to 140°F (38°C to 60°C).

☑ **R403.5.6.1.2 Shut down.** A separate switch or a clearly marked circuit breaker shall be provided to permit the power supplied to electric service systems to be turned off. A separate valve shall be provided to permit the energy supplied to the main burner(s) of combustion types of service water-heating systems to be turned off.

☑ **R403.5.6.2 Water-heating equipment.** Water-heating equipment installed in residential units shall meet the minimum efficiencies of Table C404.2 in Chapter 4 of the Florida Building Code, Energy Conservation, Commercial Provisions, for the type of equipment installed. Equipment used to provide heating functions as part of a combination system shall satisfy all stated requirements for the appropriate water-heating category. Solar water heaters shall meet the criteria of Section R403.5.6.2.1.

☐ **R403.5.6.2.1 Solar water-heating systems.** Solar systems for domestic hot water production are rated by the annual solar energy factor of the system. The solar energy factor of a system shall be determined from the Florida Solar Energy Center Directory of Certified Solar Systems. Solar collectors shall be tested in accordance with ISO Standard 9806, Test Methods for Solar Collectors, and SRCC Standard TM-1, Solar Domestic Hot Water System and Component Test Protocol. Collectors in installed solar water-heating systems should meet the following criteria:

1. Be installed with a tilt angle between 10 degrees and 40 degrees of the horizontal; and
2. Be installed at an orientation within 45 degrees of true south.

☑ **R403.6 Mechanical ventilation (Mandatory).** The building shall be provided with ventilation that meets the requirements of the Florida Building Code, Residential, or Florida Building Code, Mechanical, as applicable, or with other approved means of ventilation including: Natural, Infiltration or Mechanical means. Outdoor air intakes and exhausts shall have automatic or gravity dampers that close when the ventilation system is not operating.



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☑ **R403.6.1 Whole-house mechanical ventilation system fan efficacy.** When installed to function as a whole-house mechanical ventilation system, fans shall meet the efficacy requirements of Table R403.6.1.

**Exception:** Where an air handler that is integral to tested and listed HVAC equipment is used to provide whole-house mechanical ventilation, the air handler shall be powered by an electronically commutated motor.

**TABLE R403.6.1**
**WHOLE-HOUSE MECHANICAL VENTILATION SYSTEM FAN EFFICACY**

| FAN LOCATION | AIRFLOW RATE MINIMUM (CFM) | MINIMUM EFFICACY[a] (CFM/WATT) | AIRFLOW RATE MAXIMUM (CFM) |
|---|---|---|---|
| HRV or ERV | Any | 1.2 cfm/watt | Any |
| Range hoods | Any | 2.8 cfm/watt | Any |
| In-line fan | Any | 3.8 cfm/watt | Any |
| Bathroom, utility room | 10 | 2.8 cfm/watt | <90 |
| Bathroom, utility room | 90 | 3.5 cfm/watt | Any |

For SI: 1 cfm = 28.3 L/min.

a. When tested in accordance with HVI Standard 916

☐ **R403.6.2 Ventilation Air.** Residential buildings designed to be operated at a positive indoor pressure or for mechanical ventilation shall meet the following criteria:

1. The design air change per hour minimums for residential buildings in ASHRAE 62.2, Ventilation for Acceptable Indoor Air Quality, shall be the maximum rates allowed for residential applications.

2. No ventilation or air-conditioning system make-up air shall be provided to conditioned space from attics, crawlspaces, attached enclosed garages or outdoor spaces adjacent to swimming pools or spas.

3. If ventilation air is drawn from enclosed space(s), then the walls of the space(s) from which air is drawn shall be insulated to a minimum of R-11 and the ceiling shall be insulated to a minimum of R-19, space permitting, or R-10 otherwise.

**R403.7 Heating and cooling equipment.**

☑ **R403.7.1 Equipment sizing (Mandatory).** Heating and cooling equipment shall be sized in accordance with ACCA Manual S based on the equipment loads calculated in accordance with ACCA Manual J or other approved heating and cooling calculation methodologies, based on building loads for the directional orientation of the building. The manufacturer and model number of the outdoor and indoor units (if split system) shall be submitted along with the sensible and total cooling capacities at the design conditions described in Section R302.1. This Code does not allow designer safety factors, provisions for future expansion or other factors that affect equipment sizing. System sizing calculations shall not include loads created by local intermittent mechanical ventilation such as standard kitchen and bathroom exhaust systems. New or replacement heating and cooling equipment shall have an efficiency rating equal to or greater than the minimum required by federal law for the geographic location where the equipment is installed.



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# Florida Building Code, Energy Conservation, Mandatory Requirements (2023 Continued)

☑ **R403.7.1.1 Cooling equipment capacity.** Cooling only equipment shall be selected so that its total capacity is not less than the calculated total load but not more than 1.15 times greater than the total load calculated according to the procedure selected in Section R403.7, or the closest available size provided by the manufacturer's product lines. The corresponding latent capacity of the equipment shall not be less than the calculated latent load.
The published value for AHRI total capacity is a nominal, rating-test value and shall not be used for equipment sizing. Manufacturer's expanded performance data shall be used to select cooling-only equipment. This selection shall be based on the outdoor design dry-bulb temperature for the load calculation (or entering water temperature for water-source equipment), the blower CFM provided by the expanded performance data, the design value for entering wet-bulb temperature and the design value for entering dry-bulb temperature.

Design values for entering wet-bulb and dry-bulb temperatures shall be for the indoor dry bulb and relative humidity used for the load calculation and shall be adjusted for return side gains if the return duct(s) is installed in an unconditioned space.

**Exceptions:**
1. Attached single- and multiple-family residential equipment sizing may be selected so that its cooling capacity is less than the calculated total sensible load but not less than 80 percent of that load.
2. When signed and sealed by a Florida-registered engineer, in attached single- and multiple-family units, the capacity of equipment may be sized in accordance with good design practice.

**R403.7.1.2 Heating equipment capacity.**

☐ **R403.7.1.2.1 Heat pumps.** Heat pump sizing shall be based on the cooling requirements as calculated according to Section R403.7.1.1, and the heat pump total cooling capacity shall not be more than 1.15 times greater than the design cooling load even if the design heating load is 1.15 times greater than the design cooling load.

☐ **R403.7.1.2.2 Electric resistance furnaces.** Electric resistance furnaces shall be sized within 4 kW of the design requirements calculated according to the procedure selected in Section R403.7.1.

☐ **R403.7.1.2.3 Fossil fuel heating equipment.** The capacity of fossil fuel heating equipment with natural draft atmospheric burners shall not be less than the design load calculated in accordance with Section R403.7.1.

☐ **R403.7.1.3 Extra capacity required for special occasions.** Residences requiring excess cooling or heating equipment capacity on an intermittent basis, such as anticipated additional loads caused by major entertainment events, shall have equipment sized or controlled to prevent continuous space cooling or heating within that space by one or more of the following options:
1. A separate cooling or heating system is utilized to provide cooling or heating to the major entertainment areas.
2. A variable capacity system sized for optimum performance during base load periods is utilized.

☐ **R403.8 Systems serving multiple dwelling units (Mandatory).** Systems serving multiple dwelling units shall comply with Sections C403 and C404 of the Florida Building Code, Energy Conservation—Commercial Provisions in lieu of Section R403.

☐ **R403.9 Snow melt and ice system controls (Mandatory).** Snow- and ice-melting systems, supplied through energy service to the building, shall include automatic controls capable of shutting off the system when the pavement temperature is above 50°F (10°C), and no precipitation is falling and an automatic or manual control that will allow shutoff when the outdoor temperature is above 40°F (4.8°C).

☐ **403.10 Pools and permanent spa energy consumption (Mandatory).** The energy consumption of pools and permanent spas shall be in accordance with Sections R403.10.1 through R403.10.5.

☐ **R403.10.1 Heaters.** The electric power to heaters shall be controlled by a readily accessible on-off switch that is an integral part of the heater mounted on the exterior of the heater, or external to and within 3 feet (914 mm) of the heater. Operation of such switch shall not change the setting of the heater thermostat. Such switches shall be in addition to a circuit breaker for the power to the heater.
Gas-fired heaters shall not be equipped with continuously burning ignition pilots.

☐ **R403.10.2 Time switches.** Time switches or other control methods that can automatically turn off and on according to a preset schedule shall be installed for heaters and pump motors. Heaters and pump motors that have built-in time switches shall be in compliance with this section.

**Exceptions:**
1. Where public health standards require 24-hour pump operation.
2. Pumps that operate solar- and waste-heat-recovery pool heating systems
3. Where pumps are powered exclusively from on-site renewable generation.


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☐ **R403.10.3 Covers.** Outdoor heated swimming pools and outdoor permanent spas shall be equipped with a vapor-retardant cover on or at the water surface or a liquid cover or other means proven to reduce heat loss.

**Exception:**Where more than 70 percent of the energy for heating, computed over an operation season, is from site-recovered energy, such as from a heat pump or solar energy source, covers or other vapor-retardant means shall not be required

☐ **R403.10.4 Gas- and oil-fired pool and spa heaters.** All gas- and oil-fired pool and spa heaters shall have a minimum thermal efficiency of 82 percent for heaters manufactured on or after April 16, 2013, when tested in accordance with ANSI Z 21.56. Pool heaters fired by natural or LP gas shall not have continuously burning pilot lights.

☐ **R403.10.5 Heat pump pool heaters.** Heat pump pool heaters shall have a minimum COP of 4.0 when tested in accordance with AHRI 1160, Table 2, Standard Rating Conditions-Low Air Temperature. A test report from an independent laboratory is required to verify procedure compliance. Geothermal swimming pool heat pumps are not required to meet this standard.

☐ **R403.11 Portable spas (Mandatory).** The energy consumption of electric-powered portable spas shall be controlled by the requirements of APSP-14

☐ **R403.13 Dehumidifiers (Mandatory).** If installed, a dehumidifier shall conform to the following requirements:

1. The minimum rated efficiency of the dehumidifier shall be greater than 1.7 liters/ kWh if the total dehumidifier capacity for the house is less than 75 pints/day and greater than 2.38 liters/kWh if the total dehumidifier capacity for the house is greater than or equal to 75 pints/day.
2. The dehumidifier shall be controlled by a sensor that is installed in a location where it is exposed to mixed house air.
3. Any dehumidifier unit located in unconditioned space that treats air from conditioned space shall be insulated to a minimum of R-2.
4. Condensate disposal shall be in accordance with Section M1411.3.1 of the Florida Building Code, Residential.

☐ **R403.13.1 Ducted dehumidifiers.** Ducted dehumidifiers shall, in addition to conforming to the requirements of Section R403.13, conform to the following requirements:

1. If a ducted dehumidifier is configured with return and supply ducts both connected into the supply side of the cooling system, a backdraft damper shall be installed in the supply air duct between the dehumidifier inlet and outlet duct.
2. If a ducted dehumidifier is configured with only its supply duct connected into the supply side of the central heating and cooling system, a backdraft damper shall be installed in the dehumidifier supply duct between the dehumidifier and central supply duct.
3. A ducted dehumidifier shall not be ducted to or from a central ducted cooling system on the return duct side upstream from the central cooling evaporator coil.
4. Ductwork associated with a dehumidifier located in unconditioned space shall be insulated to a minimum of R-6.

## SECTION R404
## ELECTRICAL POWER AND LIGHTING SYSTEMS

☑ **R404.1 Lighting equipment (Mandatory).** All permanently installed luminaires, excluding those in kitchen appliances, shall have an efficacy of at least 45 lumens-per-watt or shall utilize lamps with an efficacy of not less than 65 lumens-per-watt.

**R404.1.1 Lighting equipment (Mandatory).** Fuel gas lighting systems shall not have continuously burning pilot lights.



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## SECTION R405
## SIMULATED PERFORMANCE ALTERNATIVE
## (PERFORMANCE)

**R405.2 Mandatory requirements.** Compliance with this section requires that the mandatory provisions identified in Section R401.2 be met. All supply and return ducts not completely inside the building thermal envelope shall be insulated to a minimum of R-6, except site-wrapped supply ducts not completely inside the building thermal envelope shall be insulated to a minimum of R-8.

**R405.2.1 Ceiling insulation.** Ceilings shall have an insulation level of at least R-19, space permitting. For the purposes of this code, types of ceiling construction that are considered to have inadequate space to install R-19 include single assembly ceilings of the exposed deck and beam type and concrete deck roofs. Such ceiling assemblies shall be insulated to at least a level of R-10.

**R405.2.2 Building air leakage testing.** Building or dwelling air leakage testing shall be in accordance with Sections R402.4 through R402.4.1.2. If an air leakage rate below seven air changes per hour at a pressure of 0.2 inch w.g. (50 pascals) is specified for the proposed design, testing shall verify the air leakage rate does not exceed the air leakage rate of the proposed design instead of seven air changes per hour.

**R405.2.3 Duct air leakage testing.** In cases where duct air leakage lower than the default Qn to outside of 0.080 (where Qn = duct leakage to the outside in cfm per 100 square feet of conditioned floor area tested at 25 Pascals) is specified for the proposed design, testing in accordance with Section R403.3.2 shall verify a duct air leakage rate not exceeding the leakage rate of the proposed design. Otherwise, in accordance with Section R403.3.3, duct testing is not mandatory for buildings complying by Section R405.

## SECTION R406
## ENERGY RATING INDEX
## COMPLIANCE ALTERNATIVE

**R406.2 Mandatory requirements.** Compliance with this section requires that the provisions identified in Sections R401 through R404 labeled as “mandatory” and Section R403.5.3 of the 2015 International Energy Conservation Code be met. For buildings that do not utilize on-site renewable power production for compliance with this section, the building thermal envelope shall be greater than or equal to levels of efficiency and Solar Heat Gain Coefficient in Table 402.1.1 or 402.1.3 of the 2009 International Energy Conservation Code. For buildings that utilize on-site renewable power production for compliance with this section, the building thermal envelope shall be greater than or equal to levels of efficiency and Solar Heat Gain Coefficient in Table R402.1.2 or Table R402.1.4 of the 2015 International Energy Conservation Code.

> **Exception:** Supply and return ducts not completely inside the building thermal envelope shall be insulated to a minimum of R-6.

**R406.2.1 Site-wrapped supply ducts.** Site-wrapped supply ducts not completely inside the building thermal envelope shall be insulated to a minimum of R-8.



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# 2023 - AIR BARRIER AND INSULATION INSPECTION COMPONENT CRITERIA-TABLE 402.4.1.1[a]

| | | | |
|---|---|---|---|
| Project Name: | GS JPD 10635 LLC | Builder Name: | |
| Street: | 10635 SW 63 Avenue | Permit Office: | |
| City, State, Zip: | Miami, FL, 33154 | Permit Number: | |
| Owner: | GS JPD 10635 LLC | Jurisdiction: | |
| Design Location: | FL, Miami | County: | Miami-Dade(Florida Climate Zone 1) |

| COMPONENT | AIR BARRIER CRITERIA | INSULATION INSTALLATION CRITERIA | CHECK |
|---|---|---|---|
| General requirements | A continuous air barrier shall be installed in the building envelope.<br>The exterior thermal envelope contains a continuous air barrier.<br>Breaks or joints in the air barrier shall be sealed. | Air-permeable insulation shall not be used as a sealing material. | |
| Ceiling/attic | The air barrier in any dropped ceiling/soffit shall be aligned with the insulation and any gaps in the air barrier shall be sealed.<br>Access openings, drop down stairs or knee wall doors to unconditioned attic spaces shall be sealed. | The insulation in any dropped ceiling/soffit shall be aligned with the air barrier. | |
| Walls | The junction of the foundation and sill plate shall be sealed.<br>The junction of the top plate and the top of exterior walls shall be sealed.<br>Knee walls shall be sealed. | Cavities within corners and headers of frame walls shall be insulated by completely filling the cavity with a material having a thermal resistance of R-3 per inch minimum<br>Exterior thermal envelope insulation for framed walls shall be installed in substantial contact and continuous alignment with the air barrier. | |
| Windows, skylights and doors | The space between window/door jambs and framing, and skylights and framing shall be sealed. | | |
| Rim joists | Rim joists shall include the air barrier. | Rim joists shall be insulated. | |
| Floors (including above-garage and cantilevered floors) | The air barrier shall be installed at any exposed edge of insulation. | Floor framing cavity insulation shall be installed to maintain permanent contact with the underside of subfloor decking, or floor framing cavity insulation shall be permitted to be in contact with the top side of sheathing, or continuous insulation installed on the underside of floor framing and extends from the bottom to the top of all perimeter floor framing members. | |
| Crawl space walls | Exposed earth in unvented crawl spaces shall be covered with a Class I vapor retarder with overlapping joints taped. | Where provided instead of floor insulation, insulation shall be permanently attached to the crawlspace walls. | |
| Shafts, penetrations | Duct shafts, utility penetrations, and flue shafts opening to exterior or unconditioned space shall be sealed. | | |
| Narrow cavities | | Batts in narrow cavities shall be cut to fit, or narrow cavities shall be filled by insulation that on installation readily conforms to the available cavity spaces. | |
| Garage separation | Air sealing shall be provided between the garage and conditioned spaces. | | |
| Recessed lighting | Recessed light fixtures installed in the building thermal envelope shall be sealed to the finished surface. | Recessed light fixtures installed in the building thermal envelope shall be air tight and IC rated. | |
| Plumbing and wiring | | Batt insulation shall be cut neatly to fit around wiring and plumbing in exterior walls, or insulation that on installation readily conforms to available space shall extend behind piping and wiring. | |
| Shower/tub on exterior wall | The air barrier installed at exterior walls adjacent to showers and tubs shall separate them from the showers and tubs. | Exterior walls adjacent to showers and tubs shall be insulated. | |
| Electrical, communication, and other equipment boxes, housings, and enclosures | Boxes, housings, and enclosures that penetrate the air barrier shall be caulked, taped, gasketed, or otherwise sealed to the air barrier element being penetrated.<br>All concealed openings into the box, housing, or enclosure shall be sealed.<br>The continuity of the air barrier shall be maintained around boxes, housings, and enclosures that penetrate the air barrier.<br>Alternatively, air-sealed boxes shall be installed in accordance with R402.4.6 | Boxes, housings, and enclosures shall be buried in or surrounded by tightly fitted insulation. | |
| HVAC register boots | HVAC supply and return register boots that penetrate building thermal envelope shall be sealed to the sub-floor, wall covering or ceiling penetrated by the boot. | | |
| Concealed sprinklers | When required to be sealed, concealed fire sprinklers shall only be sealed in a manner that is recommended by the manufacturer.<br>Caulking or other adhesive sealants shall not be used to fill voids voids between fire sprinkler cover plates and walls or ceilings. | | |

a. In addition, inspection of log walls shall be in accordance with the provisions of ICC-400.



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# Envelope Leakage Test Report (Blower Door Test)
## Residential Prescriptive, Performance or ERI Method Compliance
## 2023 Florida Building Code, Energy Conservation, 8th Edition

| Jurisdiction: | Permit #: |
|---|---|

**Job Information**

Builder: Community: Lot: NA

Address: 10635 SW 63 Avenue

City: Miami State: FL Zip: 33154

**Air Leakage Test Results** *Passing results must meet either the Performance, Prescriptive, or ERI Method*

○ **PRESCRIPTIVE METHOD-**The building or dwelling unit shall be tested and verified as having an air leakage rate of not exceeding 7 air changes per hour at a pressure of 0.2 inch w.g. (50 Pascals) in Climate Zones 1 and 2.

● **PERFORMANCE or ERI METHOD-**The building or dwelling unit shall be tested and verified as having an air leakage rate of not exceeding the selected ACH(50) value, as shown on Form R405-2023 (Performance) or R406-2023 (ERI), section labeled as infiltration, sub-section ACH50.

*ACH(50) specified on Form R405-2023-Energy Calc (Performance) or R406-2023 (ERI):* 4.721

_____ x 60 ÷ 88330 = _____
CFM(50) Building Volume ACH(50)

☐ **PASS**

☐ When ACH(50) is less than 3, Mechanical Ventilation installation must be verified by building department.

Method for calculating building volume:

○ Retrieved from architectural plans

● Code software calculated

○ Field measured and calculated

**R402.4.1.2 Testing.** The building or dwelling unit shall be tested and verified as having an air leakage rate not exceeding seven air changes per hour in Climate Zones 1 and 2, and three air changes per hour in Climate Zones 3 through 8. Dwelling units with an air leakage rate less than three air changes per hour shall be provided with whole-house mechanical ventilation in accordance with Section R403.6.1 of this code and Section M1507.3 if the *Florida Building Code, Residential.* Testing shall be conducted in accordance with ANSI/RESNET/ICC 380 and reported at a pressure of 0.2 inch w.g. (50 Pascals). Testing shall be conducted by either individuals as defined in Section 553.993(5) or (7), *Florida Statues,*or individuals licensed as set forth in Section 489.105(3)(f), (g), or (i) or an approved third party. A written report of the results of the test shall be signed by the party conducting the test and provided to the *code official.* Testing shall be performed at any time after creation of all penetrations of the *building thermal envelope.*

During testing:

1. Exterior windows and doors, fireplace and stove doors shall be closed, but not sealed, beyond the intended weatherstripping or other infiltration control measures.
2. Dampers including exhaust, intake, makeup air, back draft and flue dampers shall be closed, but not sealed beyond intended infiltration control measures.
3. Interior doors, if installed at the time of the test, shall be open.
4. Exterior doors for continuous ventilation systems and heat recovery ventilators shall be closed and sealed.
5. Heating and cooling systems, if installed at the time of the test, shall be turned off.
6. Supply and return registers, if installed at the time of the test, shall be fully open.
7. If an attic is both sealed and insulated at the roof deck, interior access doors and hatches between the conditioned space volume and the attic shall be opened during the test and the volume of the attic shall be added to the conditioned space volume for purposes of reporting the infiltration volume and calculating the air leakage of the home.

**Testing Company**

Company Name: _____ Phone: _____

I hereby verify that the above Air Leakage results are in accordance with the 2023 8th Edition Florida Building Code Energy Conservation requirements according to the compliance method selected above.

Signature of Tester: _____ Date of Test: _____

Printed Name of Tester: _____

License/Certification #: _____ Issuing Authority: _____

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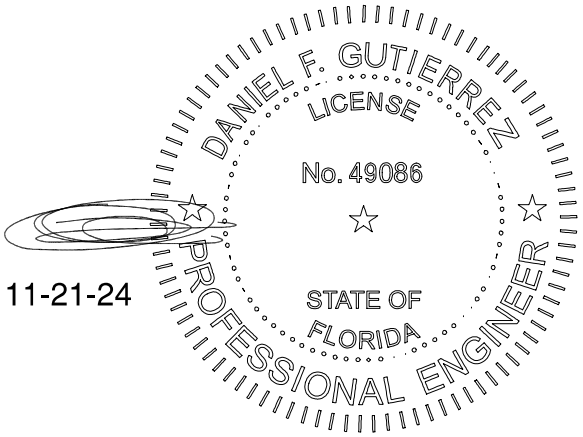
# GS JPD 10635 LLC

| | |
|---|---|
| Location | **10635 SW 63 Ave Miami FL** |
| Building owner | **GS JPD 10635 LLC** |
| Program user | **Daniel F Gutierrez** |
| Company | |
| Comments | |




11-21-24

| | |
|---|---|
| By | **DFG** |
| Dataset name | **E:\Heat Load\2024\Giorgio Balli\GS McDonough 2.trc** |
| Calculation time | **06:58 PM on 11/21/2024** |
| TRACE® 700 version | **6.0** |

| | | |
|---|---|---|
| Location | **Miami, Florida** | |
| Latitude | **25.0** | **deg** |
| Longitude | **80.0** | **deg** |
| Time Zone | **5** | |
| Elevation | **7** | **ft** |
| Barometric pressure | **29.9** | **in. Hg** |
| Air density | **0.0760** | **lb/cu ft** |
| Air specific heat | **0.2444** | **Btu/lb·°F** |
| Density-specific heat product | **1.1151** | **Btu/h·cfm·°F** |
| Latent heat factor | **4,908.6** | **Btu·min/h·cu ft** |
| Enthalpy factor | **4.5619** | **lb·min/hr·cu ft** |
| Summer design dry bulb | **90** | **°F** |
| Summer design wet bulb | **77** | **°F** |
| Winter design dry bulb | **47** | **°F** |
| Summer clearness number | **0.95** | |
| Winter clearness number | **0.95** | |
| Summer ground reflectance | **0.20** | |
| Winter ground reflectance | **0.20** | |

| | |
|---|---|
| Design simulation period | **January - December** |
| Cooling load methodology | **TETD-TA1** |
| Heating load methodology | **UATD** |

*"This item has been digitally signed and sealed by Daniel F. Gutierrez on the date adjacent to the seal. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies"*

Daniel F Gutierrez

Digitally signed by Daniel F Gutierrez
DN: CN=Daniel F Gutierrez, dnQualifier=A01410D0000017F0DC0E1C20012913D, O=Florida, C=US
Date: 2024.11.21 19:30:52-05'00'

TRANE

TRACE 700
comprehensive building analysis software from Trane

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# ENGINEERING CHECKS

By DFG

| System | Zone | Room | Type | Floor Area ft² | COOLING % OA | COOLING cfm/ft² | COOLING cfm/ton | COOLING ft²/ton | COOLING Btu/hr·ft² | HEATING % OA | HEATING cfm/ft² | HEATING Btu/hr·ft² |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Kitchen | Room | 528 | 31.61 | 0.30 | 259.0 | 864.5 | 13.88 | 31.61 | 0.30 | -8.43 |
| | | Staff Room | Room | 197 | 0.00 | 0.79 | 463.7 | 588.7 | 20.38 | 0.00 | 0.79 | -16.64 |
| | | Family Room | Room | 783 | 0.00 | 1.01 | 514.7 | 507.8 | 23.63 | 0.00 | 1.01 | -21.41 |
| | | Laundry Room | Room | 299 | 0.00 | 0.57 | 438.7 | 770.0 | 15.58 | 0.00 | 0.57 | -12.04 |
| | | Study | Room | 235 | 0.00 | 1.07 | 491.6 | 461.4 | 26.01 | 0.00 | 1.07 | -22.50 |
| | Zone - 001 | | Zone | 2,042 | 3.27 | 0.75 | 451.3 | 603.3 | 19.89 | 3.27 | 0.75 | -16.35 |
| **System - 001** | | | **System - Single Zone** | **2,042** | **3.27** | **0.75** | **451.3** | **603.3** | **19.89** | **3.27** | **0.75** | **-16.35** |
| | | Billards | Room | 347 | 0.00 | 2.14 | 607.5 | 284.3 | 42.21 | 0.00 | 2.14 | -31.28 |
| | | Lounge 1 | Room | 616 | 0.00 | 0.44 | 500.8 | 1,140.6 | 10.52 | 0.00 | 0.44 | -6.43 |
| | | Media | Room | 440 | 0.00 | 1.00 | 527.0 | 524.9 | 22.86 | 0.00 | 1.00 | -14.70 |
| | Zone - 002 | | Zone | 1,403 | 0.00 | 1.04 | 559.3 | 540.1 | 22.22 | 0.00 | 1.04 | -15.16 |
| **System - 002** | | | **System - Single Zone** | **1,403** | **0.00** | **1.04** | **559.3** | **540.1** | **22.22** | **0.00** | **1.04** | **-15.16** |
| | | Great Room | Room | 768 | 0.00 | 1.30 | 613.0 | 472.1 | 25.42 | 0.00 | 0.00 | -12.64 |
| | | Dinning Room | Room | 361 | 0.00 | 1.77 | 590.9 | 334.4 | 35.88 | 0.00 | 0.00 | -16.13 |
| | | Foyer 1rst Floor | Room | 246 | 0.00 | 2.39 | 611.2 | 255.5 | 46.97 | 0.00 | 0.00 | -21.26 |
| | Zone - 003 | | Zone | 1,375 | 0.00 | 1.21 | 569.8 | 471.8 | 25.44 | 0.00 | 0.00 | -15.10 |
| **System - 003** | | | **System - VAV w/Baseboard Heating** | **1,375** | **0.00** | **1.21** | **569.8** | **471.8** | **25.44** | **0.00** | **0.00** | **-15.10** |
| | | Bedroom #3 2nd Floor | Room | 410 | 0.00 | 0.90 | 452.4 | 500.6 | 23.97 | 0.00 | 0.00 | -16.53 |
| | | Bedroom #2 & Bath 2nd Floor | Room | 357 | 0.00 | 0.75 | 466.5 | 624.9 | 19.20 | 0.00 | 0.00 | -11.60 |
| | | Bedroom #1 2nd Floor | Room | 403 | 0.00 | 0.84 | 474.9 | 565.2 | 21.23 | 0.00 | 0.00 | -9.28 |
| | | Open to below | Room | 255 | 0.00 | 2.13 | 542.8 | 255.3 | 47.01 | 0.00 | 0.00 | -18.26 |
| | | Hallway 2nd | Room | 245 | 0.00 | 0.33 | 356.7 | 1,086.7 | 11.04 | 0.00 | 0.00 | -5.61 |
| | | Lounge 2 | Room | 407 | 0.00 | 0.75 | 528.5 | 709.4 | 16.92 | 0.00 | 0.00 | -9.78 |
| | Zone - 004 | | Zone | 2,078 | 0.00 | 0.85 | 463.4 | 544.4 | 22.04 | 0.00 | 0.00 | -11.88 |
| **System - 004** | | | **System - VAV w/Baseboard Heating** | **2,078** | **0.00** | **0.85** | **463.4** | **544.4** | **22.04** | **0.00** | **0.00** | **-11.88** |
| | | Primary MAster Room Bath & WC | Room | 1,126 | 0.00 | 0.80 | 483.1 | 603.3 | 19.89 | 0.00 | 0.80 | -12.31 |
| | Zone - 005 | | Zone | 1,126 | 0.00 | 0.80 | 483.1 | 603.3 | 19.89 | 0.00 | 0.80 | -12.31 |
| **System - 005** | | | **System - Single Zone** | **1,126** | **0.00** | **0.80** | **483.1** | **603.3** | **19.89** | **0.00** | **0.80** | **-12.31** |
| | | Guest Suite | Room | 366 | 0.00 | 1.29 | 509.7 | 396.6 | 30.26 | 0.00 | 0.00 | -21.32 |
| | Zone - 006 | | Zone | 366 | 0.00 | 1.29 | 509.7 | 396.6 | 30.26 | 0.00 | 0.00 | -21.32 |
| **System - 006** | | | **System - VAV w/Baseboard Heating** | **366** | **0.00** | **1.29** | **509.7** | **396.6** | **30.26** | **0.00** | **0.00** | **-21.32** |



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# System Checksums

By DFG

**System - 001** **Single Zone**

## COOLING COIL PEAK

Peaked at Time: Mo/Hr:
Outside Air: OADB/WB/HR: Sum of Peaks

| | Space Sens. + Lat. Btu/h | Plenum Sens. + Lat Btu/h | Net Total Btu/h | Percent Of Total (%) |
|---|---|---|---|---|
| **Envelope Loads** | | | | |
| Skylite Solar | 0 | 0 | 0 | 0 |
| Skylite Cond | 0 | 0 | 0 | 0 |
| Roof Cond | 0 | 2,964 | 2,964 | 7 |
| Glass Solar | 8,182 | 0 | 8,182 | 20 |
| Glass Cond | 6,753 | 0 | 6,753 | 17 |
| Wall Cond | 3,935 | 1,785 | 5,720 | 14 |
| Partition | 4,223 | | 4,223 | 10 |
| Exposed Floor | 0 | | 0 | 0 |
| Infiltration | 5,662 | | 5,662 | 14 |
| *Sub Total* ==> | 28,755 | 4,749 | 33,504 | 82 |
| **Internal Loads** | | | | |
| Lights | 1,707 | 0 | 1,707 | 4 |
| People | 2,500 | | 2,500 | 6 |
| Misc | 683 | 0 | 683 | 2 |
| *Sub Total* ==> | 4,889 | 0 | 4,889 | 12 |
| **Ceiling Load** | 1,269 | -1,269 | 0 | 0 |
| **Ventilation Load** | 0 | 0 | 2,603 | 6 |
| **Dehumid. Ov Sizing** | | | 0 | 0 |
| **Ov/Undr Sizing** | 0 | | 0 | 0 |
| **Exhaust Heat** | | -381 | -381 | -1 |
| **Sup. Fan Heat** | | | 0 | 0 |
| **Ret. Fan Heat** | | 0 | 0 | 0 |
| **Duct Heat Pkup** | | 0 | 0 | 0 |
| **Reheat at Design** | | | 0 | 0 |
| ***Grand Total ==>*** | 34,913 | 3,099 | 40,614 | 100.00 |

## CLG SPACE PEAK

Mo/Hr: Sum of
OADB: Peaks

| | Space Sensible Btu/h | Percent Of Total (%) |
|---|---|---|
| **Envelope Loads** | | |
| Skylite Solar | 0 | 0 |
| Skylite Cond | 0 | 0 |
| Roof Cond | 0 | 0 |
| Glass Solar | 13,232 | 43 |
| Glass Cond | 4,625 | 15 |
| Wall Cond | 2,934 | 10 |
| Partition | 4,014 | 13 |
| Exposed Floor | 0 | 0 |
| Infiltration | 1,446 | 5 |
| *Sub Total* ==> | 26,251 | 85 |
| **Internal Loads** | | |
| Lights | 1,707 | 6 |
| People | 1,250 | 4 |
| Misc | 683 | 2 |
| *Sub Total* ==> | 3,639 | 12 |
| **Ceiling Load** | 981 | 3 |
| **Ventilation Load** | 0 | 0 |
| **Ov/Undr Sizing** | 0 | 0 |
| ***Grand Total ==>*** | 30,871 | 100.00 |

## HEATING COIL PEAK

Mo/Hr: Heating Design
OADB: 47

| | Space Peak Space Sens Btu/h | Coil Peak Tot Sens Btu/h | Percent Of Total (%) |
|---|---|---|---|
| **Envelope Loads** | | | |
| Skylite Solar | 0 | 0 | 0.00 |
| Skylite Cond | 0 | 0 | 0.00 |
| Roof Cond | 0 | -930 | 2.78 |
| Glass Solar | 0 | 0 | 0.00 |
| Glass Cond | -11,929 | -11,929 | 35.74 |
| Wall Cond | -3,809 | -5,568 | 16.68 |
| Partition | -6,306 | -6,306 | 18.89 |
| Exposed Floor | 0 | 0 | 0.00 |
| Infiltration | -2,789 | -2,789 | 8.36 |
| *Sub Total* ==> | -24,833 | -27,521 | 82.45 |
| **Internal Loads** | | | |
| Lights | 0 | 0 | 0.00 |
| People | 0 | 0 | 0.00 |
| Misc | 0 | 0 | 0.00 |
| *Sub Total* ==> | 0 | 0 | 0.00 |
| **Ceiling Load** | -700 | 0 | 0.00 |
| **Ventilation Load** | 0 | -1,171 | 3.51 |
| **Ov/Undr Sizing** | -4,890 | -4,890 | 14.65 |
| **Exhaust Heat** | | 204 | -0.61 |
| **OA Preheat Diff.** | | 0 | 0.00 |
| **RA Preheat Diff.** | | 0 | 0.00 |
| **Additional Reheat** | | 0 | 0.00 |
| ***Grand Total ==>*** | -30,423 | -33,378 | 100.00 |

## TEMPERATURES

| | Cooling | Heating |
|---|---|---|
| **SADB** | 56.9 | 85.9 |
| **Plenum** | 77.0 | 66.9 |
| **Return** | 76.9 | 66.9 |
| **Ret/OA** | 77.3 | 66.3 |
| **Fn MtrTD** | 0.0 | 0.0 |
| **Fn BldTD** | 0.0 | 0.0 |
| **Fn Frict** | 0.1 | 0.0 |

## AIRFLOWS

| | Cooling | Heating |
|---|---|---|
| **Vent** | 50 | 50 |
| **Infil** | 119 | 119 |
| **Supply** | 1,528 | 1,528 |
| **MinStop/Rh** | 0 | 0 |
| **Return** | 1,647 | 1,647 |
| **Exhaust** | 169 | 169 |
| **Rm Exh** | 0 | 0 |
| **Auxiliary** | 0 | 0 |

## ENGINEERING CKS

| | Cooling | Heating |
|---|---|---|
| **% OA** | 3.3 | 3.3 |
| **cfm/ft²** | 0.75 | 0.75 |
| **cfm/ton** | 451.34 | |
| **ft²/ton** | 603.27 | |
| **Btu/hr·ft²** | 19.89 | -16.35 |
| **No. People** | 5 | |

## COOLING COIL SELECTION

| | Total Capacity ton | MBh | Sens Cap. MBh | Coil Airflow cfm | Enter DB °F | WB °F | gr/lb | Leave DB °F | WB °F | gr/lb |
|---|---|---|---|---|---|---|---|---|---|---|
| **Main Clg** | 3.4 | 40.6 | 33.7 | 1,527.6 | 77.3 | 63.7 | 66.7 | 56.7 | 54.9 | 61.6 |
| **Aux Clg** | 0.0 | 0.0 | 0.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Opt Vent** | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ***Total*** | 3.4 | 40.6 | | | | | | | | |

## AREAS

| | Gross Total ft² | Glass ft² | Glass (%) |
|---|---|---|---|
| **Floor** | 2,042 | | |
| **Part** | 774 | | |
| **ExFlr** | 0 | | |
| **Roof** | 1,363 | 0 | 0 |
| **Wall** | 1,656 | 532 | 32 |

## HEATING COIL SELECTION

| | Capacity MBh | Coil Airflow cfm | Ent °F | Lvg °F |
|---|---|---|---|---|
| **Main Htg** | -33.4 | 1,527.6 | 66.3 | 85.9 |
| **Aux Htg** | 0.0 | 0 | 0 | 0 |
| **Preheat** | 0.0 | 0 | 0 | 0 |
| **Humidif** | 0.0 | 0 | 0.0 | 0.0 |
| **Opt Vent** | 0.0 | 0 | 0.0 | 0.0 |
| ***Total*** | -33.4 | | | |

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# System Checksums

By DFG

**System - 002** **Single Zone**

## COOLING COIL PEAK

Peaked at Time: Mo/Hr:
Outside Air: OADB/WB/HR: Sum of Peaks

| | Space Sens. + Lat. Btu/h | Plenum Sens. + Lat Btu/h | Net Total Btu/h | Percent Of Total (%) |
|---|---|---|---|---|
| **Envelope Loads** | | | | |
| Skylite Solar | 0 | 0 | 0 | 0 |
| Skylite Cond | 0 | 0 | 0 | 0 |
| Roof Cond | 0 | 132 | 132 | 0 |
| Glass Solar | 12,575 | 0 | 12,575 | 40 |
| Glass Cond | 4,331 | 0 | 4,331 | 14 |
| Wall Cond | 5,213 | 1,949 | 7,162 | 23 |
| Partition | 1,103 | | 1,103 | 4 |
| Exposed Floor | 0 | | 0 | 0 |
| Infiltration | 3,439 | | 3,439 | 11 |
| *Sub Total* ==> | 26,661 | 2,081 | 28,742 | 92 |
| **Internal Loads** | | | | |
| Lights | 1,024 | 0 | 1,024 | 3 |
| People | 1,500 | | 1,500 | 5 |
| Misc | 0 | 0 | 0 | 0 |
| *Sub Total* ==> | 2,524 | 0 | 2,524 | 8 |
| **Ceiling Load** | 461 | -461 | 0 | 0 |
| **Ventilation Load** | 0 | 0 | 0 | 0 |
| **Dehumid. Ov Sizing** | | | 0 | 0 |
| **Ov/Undr Sizing** | 0 | | 0 | 0 |
| **Exhaust Heat** | | -95 | -95 | 0 |
| **Sup. Fan Heat** | | | 0 | 0 |
| **Ret. Fan Heat** | | 0 | 0 | 0 |
| **Duct Heat Pkup** | | 0 | 0 | 0 |
| **Reheat at Design** | | | 0 | 0 |
| ***Grand Total ==>*** | 29,646 | 1,525 | 31,171 | 100.00 |

## CLG SPACE PEAK

Mo/Hr: Sum of
OADB: Peaks

| | Space Sensible Btu/h | Percent Of Total (%) |
|---|---|---|
| **Envelope Loads** | | |
| Skylite Solar | 0 | 0 |
| Skylite Cond | 0 | 0 |
| Roof Cond | 0 | 0 |
| Glass Solar | 12,575 | 48 |
| Glass Cond | 4,331 | 16 |
| Wall Cond | 5,213 | 20 |
| Partition | 1,103 | 4 |
| Exposed Floor | 0 | 0 |
| Infiltration | 989 | 4 |
| *Sub Total* ==> | 24,211 | 92 |
| **Internal Loads** | | |
| Lights | 1,024 | 4 |
| People | 750 | 3 |
| Misc | 0 | 0 |
| *Sub Total* ==> | 1,774 | 7 |
| **Ceiling Load** | 461 | 2 |
| **Ventilation Load** | 0 | 0 |
| **Ov/Undr Sizing** | 0 | 0 |
| ***Grand Total ==>*** | 26,446 | 100.00 |

## HEATING COIL PEAK

Mo/Hr: Heating Design
OADB: 47

| | Space Peak Space Sens Btu/h | Coil Peak Tot Sens Btu/h | Percent Of Total (%) |
|---|---|---|---|
| **Envelope Loads** | | | |
| Skylite Solar | 0 | 0 | 0.00 |
| Skylite Cond | 0 | 0 | 0.00 |
| Roof Cond | 0 | -52 | 0.24 |
| Glass Solar | 0 | 0 | 0.00 |
| Glass Cond | -10,465 | -10,465 | 49.20 |
| Wall Cond | -3,969 | -5,704 | 26.82 |
| Partition | -1,760 | -1,760 | 8.27 |
| Exposed Floor | 0 | 0 | 0.00 |
| Infiltration | -1,916 | -1,916 | 9.01 |
| *Sub Total* ==> | -18,110 | -19,897 | 93.55 |
| **Internal Loads** | | | |
| Lights | 0 | 0 | 0.00 |
| People | 0 | 0 | 0.00 |
| Misc | 0 | 0 | 0.00 |
| *Sub Total* ==> | 0 | 0 | 0.00 |
| **Ceiling Load** | -368 | 0 | 0.00 |
| **Ventilation Load** | 0 | 0 | 0.00 |
| **Ov/Undr Sizing** | -1,446 | -1,446 | 6.80 |
| **Exhaust Heat** | | 76 | -0.36 |
| **OA Preheat Diff.** | | 0 | 0.00 |
| **RA Preheat Diff.** | | 0 | 0.00 |
| **Additional Reheat** | | 0 | 0.00 |
| ***Grand Total ==>*** | -19,925 | -21,267 | 100.00 |

## TEMPERATURES

| | Cooling | Heating |
|---|---|---|
| **SADB** | 58.7 | 80.3 |
| **Plenum** | 76.0 | 67.2 |
| **Return** | 75.8 | 67.2 |
| **Ret/OA** | 75.8 | 67.2 |
| **Fn MtrTD** | 0.0 | 0.0 |
| **Fn BldTD** | 0.0 | 0.0 |
| **Fn Frict** | 0.0 | 0.0 |

## AIRFLOWS

| | Cooling | Heating |
|---|---|---|
| **Vent** | 0 | 0 |
| **Infil** | 82 | 82 |
| **Supply** | 1,453 | 1,453 |
| **MinStop/Rh** | 0 | 0 |
| **Return** | 1,535 | 1,535 |
| **Exhaust** | 82 | 82 |
| **Rm Exh** | 0 | 0 |
| **Auxiliary** | 0 | 0 |

## ENGINEERING CKS

| | Cooling | Heating |
|---|---|---|
| **% OA** | 0.0 | 0.0 |
| **cfm/ft²** | 1.04 | 1.04 |
| **cfm/ton** | 559.30 | |
| **ft²/ton** | 540.07 | |
| **Btu/hr·ft²** | 22.22 | -15.16 |
| **No. People** | 3 | |

## COOLING COIL SELECTION

| | Total Capacity ton | Total Capacity MBh | Sens Cap. MBh | Coil Airflow cfm | Enter DB °F | Enter WB °F | Enter gr/lb | Leave DB °F | Leave WB °F | Leave gr/lb |
|---|---|---|---|---|---|---|---|---|---|---|
| **Main Clg** | 2.6 | 31.2 | 28.0 | 1,452.8 | 75.8 | 62.9 | 64.9 | 58.7 | 55.7 | 61.6 |
| **Aux Clg** | 0.0 | 0.0 | 0.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Opt Vent** | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ***Total*** | 2.6 | 31.2 | | | | | | | | |

## AREAS

| | Gross Total ft² | Glass ft² | Glass (%) |
|---|---|---|---|
| **Floor** | 1,403 | | |
| **Part** | 216 | | |
| **ExFlr** | 0 | | |
| **Roof** | 75 | 0 | 0 |
| **Wall** | 1,613 | 467 | 29 |

## HEATING COIL SELECTION

| | Capacity MBh | Coil Airflow cfm | Ent °F | Lvg °F |
|---|---|---|---|---|
| **Main Htg** | -21.3 | 1,452.8 | 67.2 | 80.3 |
| **Aux Htg** | 0.0 | 0 | 0 | 0 |
| **Preheat** | 0.0 | 0 | 0 | 0 |
| **Humidif** | 0.0 | 0 | 0.0 | 0.0 |
| **Opt Vent** | 0.0 | 0 | 0.0 | 0.0 |
| ***Total*** | -21.3 | | | |

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# System Checksums

By DFG

**System - 003** **VAV w/Baseboard Heating**

## COOLING COIL PEAK

Peaked at Time: Mo/Hr: 8 / 17
Outside Air: OADB/WB/HR: 89 / 76 / 116

| | Space Sens. + Lat. Btu/h | Plenum Sens. + Lat Btu/h | Net Total Btu/h | Percent Of Total (%) |
|---|---|---|---|---|
| **Envelope Loads** | | | | |
| Skylite Solar | 0 | 0 | 0 | 0 |
| Skylite Cond | 0 | 0 | 0 | 0 |
| Roof Cond | 0 | 822 | 822 | 2 |
| Glass Solar | 14,448 | 0 | 14,448 | 41 |
| Glass Cond | 8,059 | 0 | 8,059 | 23 |
| Wall Cond | 819 | 1,381 | 2,200 | 6 |
| Partition | 2,911 | | 2,911 | 8 |
| Exposed Floor | 0 | | 0 | 0 |
| Infiltration | 4,095 | | 4,095 | 12 |
| *Sub Total* ==> | 30,331 | 2,203 | 32,534 | 93 |
| **Internal Loads** | | | | |
| Lights | 1,024 | 0 | 1,024 | 3 |
| People | 1,500 | | 1,500 | 4 |
| Misc | 0 | 0 | 0 | 0 |
| *Sub Total* ==> | 2,524 | 0 | 2,524 | 7 |
| **Ceiling Load** | 411 | -411 | 0 | 0 |
| **Ventilation Load** | 0 | 0 | 0 | 0 |
| **Dehumid. Ov Sizing** | | | 0 | 0 |
| **Ov/Undr Sizing** | 0 | | 0 | 0 |
| **Exhaust Heat** | | -84 | -84 | 0 |
| **Sup. Fan Heat** | | | 0 | 0 |
| **Ret. Fan Heat** | | 0 | 0 | 0 |
| **Duct Heat Pkup** | | 0 | 0 | 0 |
| **Reheat at Design** | | | 0 | 0 |
| ***Grand Total ==>*** | 33,266 | 1,707 | 34,974 | 100.00 |

## CLG SPACE PEAK

Mo/Hr: 8 / 17
OADB: 89

| | Space Sensible Btu/h | Percent Of Total (%) |
|---|---|---|
| **Envelope Loads** | | |
| Skylite Solar | 0 | 0 |
| Skylite Cond | 0 | 0 |
| Roof Cond | 0 | 0 |
| Glass Solar | 14,448 | 49 |
| Glass Cond | 8,059 | 27 |
| Wall Cond | 819 | 3 |
| Partition | 2,911 | 10 |
| Exposed Floor | 0 | 0 |
| Infiltration | 1,243 | 4 |
| *Sub Total* ==> | 27,480 | 93 |
| **Internal Loads** | | |
| Lights | 1,024 | 3 |
| People | 750 | 3 |
| Misc | 0 | 0 |
| *Sub Total* ==> | 1,774 | 6 |
| **Ceiling Load** | 411 | 1 |
| **Ventilation Load** | 0 | 0 |
| **Ov/Undr Sizing** | 0 | 0 |
| ***Grand Total ==>*** | 29,665 | 100.00 |

## HEATING COIL PEAK

Mo/Hr: Heating Design
OADB: 47

| | Space Peak Space Sens Btu/h | Coil Peak Tot Sens Btu/h | Percent Of Total (%) |
|---|---|---|---|
| **Envelope Loads** | | | |
| Skylite Solar | 0 | 0 | 0.00 |
| Skylite Cond | 0 | 0 | 0.00 |
| Roof Cond | 0 | -192 | 0.93 |
| Glass Solar | 0 | 0 | 0.00 |
| Glass Cond | -13,256 | -13,256 | 64.50 |
| Wall Cond | -549 | -1,359 | 6.61 |
| Partition | -4,074 | -4,074 | 19.82 |
| Exposed Floor | 0 | 0 | 0.00 |
| Infiltration | -1,878 | -1,878 | 9.14 |
| *Sub Total* ==> | -19,757 | -20,759 | 101.00 |
| **Internal Loads** | | | |
| Lights | 0 | 0 | 0.00 |
| People | 0 | 0 | 0.00 |
| Misc | 0 | 0 | 0.00 |
| *Sub Total* ==> | 0 | 0 | 0.00 |
| **Ceiling Load** | -1,002 | 0 | 0.00 |
| **Ventilation Load** | 0 | 0 | 0.00 |
| **Ov/Undr Sizing** | 0 | 0 | 0.00 |
| **Exhaust Heat** | | 206 | -1.00 |
| **OA Preheat Diff.** | | 0 | 0.00 |
| **RA Preheat Diff.** | | 0 | 0.00 |
| **Additional Reheat** | | 0 | 0.00 |
| ***Grand Total ==>*** | -20,759 | -20,553 | 100.00 |

## TEMPERATURES

| | Cooling | Heating |
|---|---|---|
| **SADB** | 59.0 | 68.0 |
| **Plenum** | 75.9 | 65.7 |
| **Return** | 75.9 | 65.7 |
| **Ret/OA** | 75.9 | 47.0 |
| **Fn MtrTD** | 0.0 | 0.0 |
| **Fn BldTD** | 0.0 | 0.0 |
| **Fn Frict** | 0.0 | 0.0 |

## AIRFLOWS

| | Cooling | Heating |
|---|---|---|
| **Vent** | 0 | 0 |
| **Infil** | 80 | 80 |
| **Supply** | 1,661 | 0 |
| **MinStop/Rh** | 0 | 0 |
| **Return** | 1,741 | 0 |
| **Exhaust** | 80 | 80 |
| **Rm Exh** | 0 | 0 |
| **Auxiliary** | 0 | 0 |

## ENGINEERING CKS

| | Cooling | Heating |
|---|---|---|
| **% OA** | 0.0 | 0.0 |
| **cfm/ft²** | 1.21 | 0.00 |
| **cfm/ton** | 569.83 | |
| **ft²/ton** | 471.78 | |
| **Btu/hr·ft²** | 25.44 | -15.10 |
| **No. People** | 3 | |

## COOLING COIL SELECTION

| | Total Capacity ton | Total Capacity MBh | Sens Cap. MBh | Coil Airflow cfm | Enter DB °F | Enter WB °F | Enter gr/lb | Leave DB °F | Leave WB °F | Leave gr/lb |
|---|---|---|---|---|---|---|---|---|---|---|
| **Main Clg** | 2.9 | 35.0 | 31.4 | 1,660.8 | 75.9 | 62.9 | 65.1 | 59.0 | 56.0 | 62.0 |
| **Aux Clg** | 0.0 | 0.0 | 0.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Opt Vent** | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ***Total*** | 2.9 | 35.0 | | | | | | | | |

## AREAS

| | Gross Total ft² | Glass ft² | Glass (%) |
|---|---|---|---|
| **Floor** | 1,375 | | |
| **Part** | 500 | | |
| **ExFlr** | 0 | | |
| **Roof** | 300 | 0 | 0 |
| **Wall** | 881 | 591 | 67 |

## HEATING COIL SELECTION

| | Capacity MBh | Coil Airflow cfm | Ent °F | Lvg °F |
|---|---|---|---|---|
| **Main Htg** | -20.8 | 0.0 | 0.0 | 0.0 |
| **Aux Htg** | 0.0 | 0 | 0 | 0 |
| **Preheat** | 0.0 | 0 | 0 | 0 |
| **Humidif** | 0.0 | 0 | 0.0 | 0.0 |
| **Opt Vent** | 0.0 | 0 | 0.0 | 0.0 |
| ***Total*** | -20.8 | | | |

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# System Checksums

By DFG

**System - 004** **VAV w/Baseboard Heating**

## COOLING COIL PEAK

Peaked at Time: Mo/Hr: 8 / 17
Outside Air: OADB/WB/HR: 89 / 76 / 116

| | Space Sens. + Lat. Btu/h | Plenum Sens. + Lat Btu/h | Net Total Btu/h | Percent Of Total (%) |
|---|---|---|---|---|
| **Envelope Loads** | | | | |
| Skylite Solar | 0 | 0 | 0 | 0 |
| Skylite Cond | 0 | 0 | 0 | 0 |
| Roof Cond | 0 | 5,554 | 5,554 | 12 |
| Glass Solar | 11,685 | 0 | 11,685 | 26 |
| Glass Cond | 6,471 | 0 | 6,471 | 14 |
| Wall Cond | 5,337 | 2,312 | 7,649 | 17 |
| Partition | 3,581 | | 3,581 | 8 |
| Exposed Floor | 0 | | 0 | 0 |
| Infiltration | 6,189 | | 6,189 | 14 |
| *Sub Total* ==> | 33,263 | 7,866 | 41,130 | 90 |
| **Internal Loads** | | | | |
| Lights | 2,048 | 0 | 2,048 | 4 |
| People | 3,000 | | 3,000 | 7 |
| Misc | 0 | 0 | 0 | 0 |
| *Sub Total* ==> | 5,048 | 0 | 5,048 | 11 |
| **Ceiling Load** | 1,872 | -1,872 | 0 | 0 |
| **Ventilation Load** | 0 | 0 | 0 | 0 |
| **Dehumid. Ov Sizing** | | | 0 | 0 |
| **Ov/Undr Sizing** | 0 | | 0 | 0 |
| **Exhaust Heat** | | -384 | -384 | -1 |
| **Sup. Fan Heat** | | | 0 | 0 |
| **Ret. Fan Heat** | | 0 | 0 | 0 |
| **Duct Heat Pkup** | | 0 | 0 | 0 |
| **Reheat at Design** | | | 0 | 0 |
| ***Grand Total ==>*** | 40,183 | 5,610 | 45,793 | 100.00 |

## CLG SPACE PEAK

Mo/Hr: 8 / 17
OADB: 89

| | Space Sensible Btu/h | Percent Of Total (%) |
|---|---|---|
| **Envelope Loads** | | |
| Skylite Solar | 0 | 0 |
| Skylite Cond | 0 | 0 |
| Roof Cond | 0 | 0 |
| Glass Solar | 11,685 | 34 |
| Glass Cond | 6,471 | 19 |
| Wall Cond | 5,337 | 16 |
| Partition | 3,581 | 10 |
| Exposed Floor | 0 | 0 |
| Infiltration | 1,878 | 5 |
| *Sub Total* ==> | 28,953 | 84 |
| **Internal Loads** | | |
| Lights | 2,048 | 6 |
| People | 1,500 | 4 |
| Misc | 0 | 0 |
| *Sub Total* ==> | 3,548 | 10 |
| **Ceiling Load** | 1,872 | 5 |
| **Ventilation Load** | 0 | 0 |
| **Ov/Undr Sizing** | 0 | 0 |
| ***Grand Total ==>*** | 34,373 | 100.00 |

## HEATING COIL PEAK

Mo/Hr: Heating Design
OADB: 47

| | Space Peak Space Sens Btu/h | Coil Peak Tot Sens Btu/h | Percent Of Total (%) |
|---|---|---|---|
| **Envelope Loads** | | | |
| Skylite Solar | 0 | 0 | 0.00 |
| Skylite Cond | 0 | 0 | 0.00 |
| Roof Cond | 0 | -1,213 | 5.02 |
| Glass Solar | 0 | 0 | 0.00 |
| Glass Cond | -10,644 | -10,644 | 44.08 |
| Wall Cond | -3,590 | -4,978 | 20.61 |
| Partition | -5,010 | -5,010 | 20.75 |
| Exposed Floor | 0 | 0 | 0.00 |
| Infiltration | -2,838 | -2,838 | 11.75 |
| *Sub Total* ==> | -22,082 | -24,683 | 102.21 |
| **Internal Loads** | | | |
| Lights | 0 | 0 | 0.00 |
| People | 0 | 0 | 0.00 |
| Misc | 0 | 0 | 0.00 |
| *Sub Total* ==> | 0 | 0 | 0.00 |
| **Ceiling Load** | -2,601 | 0 | 0.00 |
| **Ventilation Load** | 0 | 0 | 0.00 |
| **Ov/Undr Sizing** | 0 | 0 | 0.00 |
| **Exhaust Heat** | | 534 | -2.21 |
| **OA Preheat Diff.** | | 0 | 0.00 |
| **RA Preheat Diff.** | | 0 | 0.00 |
| **Additional Reheat** | | 0 | 0.00 |
| ***Grand Total ==>*** | -24,683 | -24,149 | 100.00 |

## TEMPERATURES

| | Cooling | Heating |
|---|---|---|
| **SADB** | 57.6 | 68.0 |
| **Plenum** | 77.8 | 64.1 |
| **Return** | 77.8 | 64.1 |
| **Ret/OA** | 77.8 | 47.0 |
| **Fn MtrTD** | 0.0 | 0.0 |
| **Fn BldTD** | 0.0 | 0.0 |
| **Fn Frict** | 0.0 | 0.0 |

## AIRFLOWS

| | Cooling | Heating |
|---|---|---|
| **Vent** | 0 | 0 |
| **Infil** | 121 | 121 |
| **Supply** | 1,768 | 0 |
| **MinStop/Rh** | 0 | 0 |
| **Return** | 1,889 | 0 |
| **Exhaust** | 121 | 121 |
| **Rm Exh** | 0 | 0 |
| **Auxiliary** | 0 | 0 |

## ENGINEERING CKS

| | Cooling | Heating |
|---|---|---|
| **% OA** | 0.0 | 0.0 |
| **cfm/ft²** | 0.85 | 0.00 |
| **cfm/ton** | 463.37 | |
| **ft²/ton** | 544.40 | |
| **Btu/hr·ft²** | 22.04 | -11.88 |
| **No. People** | 6 | |

## COOLING COIL SELECTION

| | Total Capacity ton | MBh | Sens Cap. MBh | Coil Airflow cfm | Enter DB °F | WB °F | gr/lb | Leave DB °F | WB °F | gr/lb |
|---|---|---|---|---|---|---|---|---|---|---|
| **Main Clg** | 3.8 | 45.8 | 40.0 | 1,768.3 | 77.8 | 63.6 | 65.1 | 57.6 | 55.0 | 60.4 |
| **Aux Clg** | 0.0 | 0.0 | 0.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Opt Vent** | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ***Total*** | 3.8 | 45.8 | | | | | | | | |

## AREAS

| | Gross Total ft² | Glass ft² | Glass (%) |
|---|---|---|---|
| **Floor** | 2,078 | | |
| **Part** | 615 | | |
| **ExFlr** | 0 | | |
| **Roof** | 2,078 | 0 | 0 |
| **Wall** | 1,526 | 475 | 31 |

## HEATING COIL SELECTION

| | Capacity MBh | Coil Airflow cfm | Ent °F | Lvg °F |
|---|---|---|---|---|
| **Main Htg** | -24.7 | 0.0 | 0.0 | 0.0 |
| **Aux Htg** | 0.0 | 0 | 0 | 0 |
| **Preheat** | 0.0 | 0 | 0 | 0 |
| **Humidif** | 0.0 | 0 | 0.0 | 0.0 |
| **Opt Vent** | 0.0 | 0 | 0.0 | 0.0 |
| ***Total*** | -24.7 | | | |



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# System Checksums

By DFG

**System - 005** **Single Zone**

## COOLING COIL PEAK

Peaked at Time: Mo/Hr:
Outside Air: OADB/WB/HR: Sum of Peaks

| | Space Sens. + Lat. Btu/h | Plenum Sens. + Lat Btu/h | Net Total Btu/h | Percent Of Total (%) |
|---|---|---|---|---|
| **Envelope Loads** | | | | |
| Skylite Solar | 0 | 0 | 0 | 0 |
| Skylite Cond | 0 | 0 | 0 | 0 |
| Roof Cond | 0 | 2,741 | 2,741 | 12 |
| Glass Solar | 3,992 | 0 | 3,992 | 18 |
| Glass Cond | 2,964 | 0 | 2,964 | 13 |
| Wall Cond | 6,492 | 2,179 | 8,670 | 39 |
| Partition | 466 | | 466 | 2 |
| Exposed Floor | 0 | | 0 | 0 |
| Infiltration | 2,966 | | 2,966 | 13 |
| *Sub Total* ==> | 16,881 | 4,919 | 21,800 | 97 |
| **Internal Loads** | | | | |
| Lights | 341 | 0 | 341 | 2 |
| People | 500 | | 500 | 2 |
| Misc | 0 | 0 | 0 | 0 |
| *Sub Total* ==> | 841 | 0 | 841 | 4 |
| **Ceiling Load** | 1,223 | -1,223 | 0 | 0 |
| **Ventilation Load** | 0 | 0 | 0 | 0 |
| **Dehumid. Ov Sizing** | | | 0 | 0 |
| **Ov/Undr Sizing** | 0 | | 0 | 0 |
| **Exhaust Heat** | | -251 | -251 | -1 |
| **Sup. Fan Heat** | | | 0 | 0 |
| **Ret. Fan Heat** | | 0 | 0 | 0 |
| **Duct Heat Pkup** | | 0 | 0 | 0 |
| **Reheat at Design** | | | 0 | 0 |
| ***Grand Total ==>*** | 18,944 | 3,446 | 22,390 | 100.00 |

## CLG SPACE PEAK

Mo/Hr: Sum of
OADB: Peaks

| | Space Sensible Btu/h | Percent Of Total (%) |
|---|---|---|
| **Envelope Loads** | | |
| Skylite Solar | 0 | 0 |
| Skylite Cond | 0 | 0 |
| Roof Cond | 0 | 0 |
| Glass Solar | 3,992 | 24 |
| Glass Cond | 2,964 | 18 |
| Wall Cond | 6,492 | 39 |
| Partition | 466 | 3 |
| Exposed Floor | 0 | 0 |
| Infiltration | 901 | 5 |
| *Sub Total* ==> | 14,815 | 89 |
| **Internal Loads** | | |
| Lights | 341 | 2 |
| People | 250 | 2 |
| Misc | 0 | 0 |
| *Sub Total* ==> | 591 | 4 |
| **Ceiling Load** | 1,223 | 7 |
| **Ventilation Load** | 0 | 0 |
| **Ov/Undr Sizing** | 0 | 0 |
| ***Grand Total ==>*** | 16,629 | 100.00 |

## HEATING COIL PEAK

Mo/Hr: Heating Design
OADB: 47

| | Space Peak Space Sens Btu/h | Coil Peak Tot Sens Btu/h | Percent Of Total (%) |
|---|---|---|---|
| **Envelope Loads** | | | |
| Skylite Solar | 0 | 0 | 0.00 |
| Skylite Cond | 0 | 0 | 0.00 |
| Roof Cond | 0 | -752 | 5.42 |
| Glass Solar | 0 | 0 | 0.00 |
| Glass Cond | -5,510 | -5,510 | 39.77 |
| Wall Cond | -4,034 | -5,433 | 39.21 |
| Partition | -733 | -733 | 5.29 |
| Exposed Floor | 0 | 0 | 0.00 |
| Infiltration | -1,538 | -1,538 | 11.10 |
| *Sub Total* ==> | -11,815 | -13,966 | 100.79 |
| **Internal Loads** | | | |
| Lights | 0 | 0 | 0.00 |
| People | 0 | 0 | 0.00 |
| Misc | 0 | 0 | 0.00 |
| *Sub Total* ==> | 0 | 0 | 0.00 |
| **Ceiling Load** | -535 | 0 | 0.00 |
| **Ventilation Load** | 0 | 0 | 0.00 |
| **Ov/Undr Sizing** | 0 | 0 | 0.00 |
| **Exhaust Heat** | | 110 | -0.79 |
| **OA Preheat Diff.** | | 0 | 0.00 |
| **RA Preheat Diff.** | | 0 | 0.00 |
| **Additional Reheat** | | 0 | 0.00 |
| ***Grand Total ==>*** | -12,350 | -13,856 | 100.00 |

## TEMPERATURES

| | Cooling | Heating |
|---|---|---|
| **SADB** | 58.5 | 80.3 |
| **Plenum** | 78.4 | 66.5 |
| **Return** | 78.4 | 66.5 |
| **Ret/OA** | 78.4 | 66.5 |
| **Fn MtrTD** | 0.0 | 0.0 |
| **Fn BldTD** | 0.0 | 0.0 |
| **Fn Frict** | 0.0 | 0.0 |

## AIRFLOWS

| | Cooling | Heating |
|---|---|---|
| **Vent** | 0 | 0 |
| **Infil** | 66 | 66 |
| **Supply** | 901 | 901 |
| **MinStop/Rh** | 0 | 0 |
| **Return** | 967 | 967 |
| **Exhaust** | 66 | 66 |
| **Rm Exh** | 0 | 0 |
| **Auxiliary** | 0 | 0 |

## ENGINEERING CKS

| | Cooling | Heating |
|---|---|---|
| **% OA** | 0.0 | 0.0 |
| **cfm/ft²** | 0.80 | 0.80 |
| **cfm/ton** | 483.12 | |
| **ft²/ton** | 603.26 | |
| **Btu/hr·ft²** | 19.89 | -12.31 |
| **No. People** | 1 | |

## COOLING COIL SELECTION

| | Total Capacity ton | Total Capacity MBh | Sens Cap. MBh | Coil Airflow cfm | Enter DB °F | Enter WB °F | Enter gr/lb | Leave DB °F | Leave WB °F | Leave gr/lb |
|---|---|---|---|---|---|---|---|---|---|---|
| **Main Clg** | 1.9 | 22.4 | 20.1 | 901.4 | 78.4 | 63.7 | 64.9 | 58.5 | 55.6 | 61.3 |
| **Aux Clg** | 0.0 | 0.0 | 0.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Opt Vent** | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ***Total*** | 1.9 | 22.4 | | | | | | | | |

## AREAS

| | Gross Total ft² | Glass ft² | Glass (%) |
|---|---|---|---|
| **Floor** | 1,126 | | |
| **Part** | 90 | | |
| **ExFlr** | 0 | | |
| **Roof** | 1,126 | 0 | 0 |
| **Wall** | 1,345 | 246 | 18 |

## HEATING COIL SELECTION

| | Capacity MBh | Coil Airflow cfm | Ent °F | Lvg °F |
|---|---|---|---|---|
| **Main Htg** | -13.9 | 901.4 | 66.5 | 80.3 |
| **Aux Htg** | 0.0 | 0 | 0 | 0 |
| **Preheat** | 0.0 | 0 | 0 | 0 |
| **Humidif** | 0.0 | 0 | 0.0 | 0.0 |
| **Opt Vent** | 0.0 | 0 | 0.0 | 0.0 |
| ***Total*** | -13.9 | | | |

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# System Checksums

By DFG

**System - 006** **VAV w/Baseboard Heating**

## COOLING COIL PEAK

Peaked at Time: Mo/Hr: 8 / 17
Outside Air: OADB/WB/HR: 89 / 76 / 116

| | Space Sens. + Lat. Btu/h | Plenum Sens. + Lat Btu/h | Net Total Btu/h | Percent Of Total (%) |
|---|---|---|---|---|
| **Envelope Loads** | | | | |
| Skylite Solar | 0 | 0 | 0 | 0 |
| Skylite Cond | 0 | 0 | 0 | 0 |
| Roof Cond | 0 | 974 | 974 | 9 |
| Glass Solar | 1,154 | 0 | 1,154 | 10 |
| Glass Cond | 1,913 | 0 | 1,913 | 17 |
| Wall Cond | 3,652 | 1,154 | 4,806 | 43 |
| Partition | 373 | | 373 | 3 |
| Exposed Floor | 0 | | 0 | 0 |
| Infiltration | 1,090 | | 1,090 | 10 |
| *Sub Total* ==> | 8,181 | 2,128 | 10,309 | 93 |
| **Internal Loads** | | | | |
| Lights | 341 | 0 | 341 | 3 |
| People | 500 | | 500 | 5 |
| Misc | 0 | 0 | 0 | 0 |
| *Sub Total* ==> | 841 | 0 | 841 | 8 |
| **Ceiling Load** | 372 | -372 | 0 | 0 |
| **Ventilation Load** | 0 | 0 | 0 | 0 |
| **Dehumid. Ov Sizing** | | | 0 | 0 |
| **Ov/Undr Sizing** | 0 | | 0 | 0 |
| **Exhaust Heat** | | -76 | -76 | -1 |
| **Sup. Fan Heat** | | | 0 | 0 |
| **Ret. Fan Heat** | | 0 | 0 | 0 |
| **Duct Heat Pkup** | | 0 | 0 | 0 |
| **Reheat at Design** | | | 0 | 0 |
| ***Grand Total ==>*** | 9,394 | 1,680 | 11,074 | 100.00 |

## CLG SPACE PEAK

Mo/Hr: 8 / 17
OADB: 89

| | Space Sensible Btu/h | Percent Of Total (%) |
|---|---|---|
| **Envelope Loads** | | |
| Skylite Solar | 0 | 0 |
| Skylite Cond | 0 | 0 |
| Roof Cond | 0 | 0 |
| Glass Solar | 1,154 | 14 |
| Glass Cond | 1,913 | 23 |
| Wall Cond | 3,652 | 44 |
| Partition | 373 | 4 |
| Exposed Floor | 0 | 0 |
| Infiltration | 331 | 4 |
| *Sub Total* ==> | 7,422 | 89 |
| **Internal Loads** | | |
| Lights | 341 | 4 |
| People | 250 | 3 |
| Misc | 0 | 0 |
| *Sub Total* ==> | 591 | 7 |
| **Ceiling Load** | 372 | 4 |
| **Ventilation Load** | 0 | 0 |
| **Ov/Undr Sizing** | 0 | 0 |
| ***Grand Total ==>*** | 8,385 | 100.00 |

## HEATING COIL PEAK

Mo/Hr: Heating Design
OADB: 47

| | Space Peak Space Sens Btu/h | Coil Peak Tot Sens Btu/h | Percent Of Total (%) |
|---|---|---|---|
| **Envelope Loads** | | | |
| Skylite Solar | 0 | 0 | 0.00 |
| Skylite Cond | 0 | 0 | 0.00 |
| Roof Cond | 0 | -173 | 2.27 |
| Glass Solar | 0 | 0 | 0.00 |
| Glass Cond | -3,147 | -3,147 | 41.24 |
| Wall Cond | -2,801 | -3,460 | 45.35 |
| Partition | -521 | -521 | 6.83 |
| Exposed Floor | 0 | 0 | 0.00 |
| Infiltration | -500 | -500 | 6.55 |
| *Sub Total* ==> | -6,969 | -7,802 | 102.24 |
| **Internal Loads** | | | |
| Lights | 0 | 0 | 0.00 |
| People | 0 | 0 | 0.00 |
| Misc | 0 | 0 | 0.00 |
| *Sub Total* ==> | 0 | 0 | 0.00 |
| **Ceiling Load** | -833 | 0 | 0.00 |
| **Ventilation Load** | 0 | 0 | 0.00 |
| **Ov/Undr Sizing** | 0 | 0 | 0.00 |
| **Exhaust Heat** | | 171 | -2.24 |
| **OA Preheat Diff.** | | 0 | 0.00 |
| **RA Preheat Diff.** | | 0 | 0.00 |
| **Additional Reheat** | | 0 | 0.00 |
| ***Grand Total ==>*** | -7,802 | -7,631 | 100.00 |

## TEMPERATURES

| | Cooling | Heating |
|---|---|---|
| **SADB** | 59.0 | 68.0 |
| **Plenum** | 78.2 | 60.8 |
| **Return** | 78.2 | 60.8 |
| **Ret/OA** | 78.2 | 47.0 |
| **Fn MtrTD** | 0.0 | 0.0 |
| **Fn BldTD** | 0.0 | 0.0 |
| **Fn Frict** | 0.0 | 0.0 |

## AIRFLOWS

| | Cooling | Heating |
|---|---|---|
| **Vent** | 0 | 0 |
| **Infil** | 21 | 21 |
| **Supply** | 470 | 0 |
| **MinStop/Rh** | 0 | 0 |
| **Return** | 492 | 0 |
| **Exhaust** | 21 | 21 |
| **Rm Exh** | 0 | 0 |
| **Auxiliary** | 0 | 0 |

## ENGINEERING CKS

| | Cooling | Heating |
|---|---|---|
| **% OA** | 0.0 | 0.0 |
| **cfm/ft²** | 1.29 | 0.00 |
| **cfm/ton** | 509.71 | |
| **ft²/ton** | 396.59 | |
| **Btu/hr·ft²** | 30.26 | -21.32 |
| **No. People** | 1 | |

## COOLING COIL SELECTION

| | Total Capacity ton | MBh | Sens Cap. MBh | Coil Airflow cfm | Enter DB/WB/HR °F | °F | gr/lb | Leave DB/WB/HR °F | °F | gr/lb |
|---|---|---|---|---|---|---|---|---|---|---|
| **Main Clg** | 0.9 | 11.1 | 10.1 | 470.4 | 78.2 | 63.7 | 65.1 | 59.0 | 56.0 | 62.0 |
| **Aux Clg** | 0.0 | 0.0 | 0.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Opt Vent** | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ***Total*** | 0.9 | 11.1 | | | | | | | | |

## AREAS

| | Gross Total ft² | Glass ft² | Glass (%) |
|---|---|---|---|
| **Floor** | 366 | | |
| **Part** | 64 | | |
| **ExFlr** | 0 | | |
| **Roof** | 366 | 0 | 0 |
| **Wall** | 895 | 140 | 16 |

## HEATING COIL SELECTION

| | Capacity MBh | Coil Airflow cfm | Ent °F | Lvg °F |
|---|---|---|---|---|
| **Main Htg** | -7.8 | 0.0 | 0.0 | 0.0 |
| **Aux Htg** | 0.0 | 0 | 0 | 0 |
| **Preheat** | 0.0 | 0 | 0 | 0 |
| **Humidif** | 0.0 | 0 | 0.0 | 0.0 |
| **Opt Vent** | 0.0 | 0 | 0.0 | 0.0 |
| ***Total*** | -7.8 | | | |

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# Room Checksums

By DFG

## Bedroom #1 2nd Floor

### COOLING COIL PEAK

Peaked at Time: Mo/Hr: 8 / 17
Outside Air: OADB/WB/HR: 89 / 76 / 116

| | Space Sens. + Lat. Btu/h | Plenum Sens. + Lat Btu/h | Net Total Btu/h | Percent Of Total (%) |
|---|---|---|---|---|
| **Envelope Loads** | | | | |
| Skylite Solar | 0 | 0 | 0 | 0 |
| Skylite Cond | 0 | 0 | 0 | 0 |
| Roof Cond | 0 | 1,078 | 1,078 | 13 |
| Glass Solar | 3,255 | 0 | 3,255 | 38 |
| Glass Cond | 879 | 0 | 879 | 10 |
| Wall Cond | 550 | 248 | 798 | 9 |
| Partition | 582 | | 582 | 7 |
| Exposed Floor | 0 | | 0 | 0 |
| Infiltration | 1,201 | | 1,201 | 14 |
| *Sub Total* ==> | 6,467 | 1,326 | 7,793 | 91 |
| **Internal Loads** | | | | |
| Lights | 341 | 0 | 341 | 4 |
| People | 500 | | 500 | 6 |
| Misc | 0 | 0 | 0 | 0 |
| *Sub Total* ==> | 841 | 0 | 841 | 10 |
| **Ceiling Load** | 363 | -363 | 0 | 0 |
| **Ventilation Load** | 0 | 0 | 0 | 0 |
| **Dehumid. Ov Sizing** | | | 0 | 0 |
| **Ov/Undr Sizing** | 0 | | 0 | 0 |
| **Exhaust Heat** | | -75 | -75 | -1 |
| **Sup. Fan Heat** | | | 0 | 0 |
| **Ret. Fan Heat** | | 0 | 0 | 0 |
| **Duct Heat Pkup** | | 0 | 0 | 0 |
| **Reheat at Design** | | | 0 | 0 |
| ***Grand Total ==>*** | 7,672 | 888 | 8,560 | 100.00 |

### CLG SPACE PEAK

Mo/Hr: 8 / 17
OADB: 89

| | Space Sensible Btu/h | Percent Of Total (%) |
|---|---|---|
| **Envelope Loads** | | |
| Skylite Solar | 0 | 0 |
| Skylite Cond | 0 | 0 |
| Roof Cond | 0 | 0 |
| Glass Solar | 3,255 | 49 |
| Glass Cond | 879 | 13 |
| Wall Cond | 550 | 8 |
| Partition | 582 | 9 |
| Exposed Floor | 0 | 0 |
| Infiltration | 365 | 6 |
| *Sub Total* ==> | 5,631 | 86 |
| **Internal Loads** | | |
| Lights | 341 | 5 |
| People | 250 | 4 |
| Misc | 0 | 0 |
| *Sub Total* ==> | 591 | 9 |
| **Ceiling Load** | 363 | 6 |
| **Ventilation Load** | 0 | 0 |
| **Ov/Undr Sizing** | 0 | 0 |
| ***Grand Total ==>*** | 6,586 | 100.00 |

### HEATING COIL PEAK

Mo/Hr: Heating Design
OADB: 47

| | Space Peak Space Sens Btu/h | Coil Peak Tot Sens Btu/h | Percent Of Total (%) |
|---|---|---|---|
| **Envelope Loads** | | | |
| Skylite Solar | 0 | 0 | 0 |
| Skylite Cond | 0 | 0 | 0 |
| Roof Cond | 0 | -235 | 6 |
| Glass Solar | 0 | 0 | 0 |
| Glass Cond | -1,446 | -1,446 | 40 |
| Wall Cond | -428 | -602 | 17 |
| Partition | -815 | -815 | 22 |
| Exposed Floor | 0 | 0 | 0 |
| Infiltration | -551 | -551 | 15 |
| *Sub Total* ==> | -3,239 | -3,649 | 100 |
| **Internal Loads** | | | |
| Lights | 0 | 0 | 0 |
| People | 0 | 0 | 0 |
| Misc | 0 | 0 | 0 |
| *Sub Total* ==> | 0 | 0 | 0 |
| **Ceiling Load** | -505 | 0 | 0 |
| **Ventilation Load** | 0 | 0 | 0 |
| **Ov/Undr Sizing** | 0 | 0 | 0 |
| **Exhaust Heat** | | 104 | -3 |
| **OA Preheat Diff.** | | 0 | 0 |
| **RA Preheat Diff.** | | 0 | 0 |
| **Additional Reheat** | | 0 | 0 |
| **System Plenum Heat** | | -95 | 3 |
| ***Grand Total ==>*** | -3,743 | -3,640 | 100.00 |

### TEMPERATURES

| | Cooling | Heating |
|---|---|---|
| **SADB** | 57.6 | 68.0 |
| **Plenum** | 77.8 | 64.1 |
| **Return** | 77.8 | 64.1 |
| **Ret/OA** | 77.8 | 47.0 |
| **Fn MtrTD** | 0.0 | 0.0 |
| **Fn BldTD** | 0.0 | 0.0 |
| **Fn Frict** | 0.0 | 0.0 |

### AIRFLOWS

| | Cooling | Heating |
|---|---|---|
| **Vent** | 0 | 0 |
| **Infil** | 24 | 24 |
| **Supply** | 339 | 0 |
| **MinStop/Rh** | 0 | 0 |
| **Return** | 362 | 0 |
| **Exhaust** | 24 | 24 |
| **Rm Exh** | 0 | 0 |
| **Auxil** | 0 | 0 |

### ENGINEERING CKS

| | Cooling | Heating |
|---|---|---|
| **% OA** | 0.0 | 0.0 |
| **cfm/ft²** | 0.84 | 0.00 |
| **cfm/ton** | 474.95 | |
| **ft²/ton** | 565.25 | |
| **Btu/hr·ft²** | 21.23 | -9.28 |
| **No. People** | 1 | |

### COOLING COIL SELECTION

| | Total Capacity ton | Total Capacity MBh | Sens Cap. MBh | Coil Airflow cfm | Enter DB/WB/HR °F | °F | gr/lb | Leave DB/WB/HR °F | °F | gr/lb |
|---|---|---|---|---|---|---|---|---|---|---|
| **Main Clg** | 0.7 | 8.6 | 7.5 | 339 | 77.8 | 63.6 | 65.1 | 57.6 | 55.2 | 61.3 |
| **Aux Clg** | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| **Opt Vent** | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ***Total*** | 0.7 | 8.6 | | | | | | | | |

### AREAS

| | Gross Total ft² | Glass ft² | Glass (%) |
|---|---|---|---|
| **Floor** | 403 | | |
| **Part** | 100 | | |
| **ExFlr** | 0 | | |
| **Roof** | 403 | 0 | 0 |
| **Wall** | 192 | 65 | 34 |

### HEATING COIL SELECTION

| | Capacity MBh | Coil Airflow cfm | Ent °F | Lvg °F |
|---|---|---|---|---|
| **Main Htg** | -3.7 | 0 | 0.0 | 0.0 |
| **Aux Htg** | 0.0 | 0 | 0.0 | 0.0 |
| **Preheat** | 0.0 | 0 | 0.0 | 0.0 |
| **Humidif** | 0.0 | 0 | 0.0 | 0.0 |
| **Opt Vent** | 0.0 | 0 | 0.0 | 0.0 |
| ***Total*** | -3.7 | | | |

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# Room Checksums

By DFG

## Bedroom #2 & Bath 2nd Floor

### COOLING COIL PEAK

Peaked at Time: Mo/Hr: 8 / 15
Outside Air: OADB/WB/HR: 90 / 77 / 118

| | Space Sens. + Lat. Btu/h | Plenum Sens. + Lat Btu/h | Net Total Btu/h | Percent Of Total (%) |
|---|---|---|---|---|
| **Envelope Loads** | | | | |
| Skylite Solar | 0 | 0 | 0 | 0 |
| Skylite Cond | 0 | 0 | 0 | 0 |
| Roof Cond | 0 | 834 | 834 | 12 |
| Glass Solar | 523 | 0 | 523 | 8 |
| Glass Cond | 948 | 0 | 948 | 14 |
| Wall Cond | 1,342 | 537 | 1,879 | 27 |
| Partition | 762 | | 762 | 11 |
| Exposed Floor | 0 | | 0 | 0 |
| Infiltration | 1,128 | | 1,128 | 16 |
| *Sub Total* ==> | 4,704 | 1,371 | 6,075 | 89 |
| **Internal Loads** | | | | |
| Lights | 341 | 0 | 341 | 5 |
| People | 500 | | 500 | 7 |
| Misc | 0 | 0 | 0 | 0 |
| *Sub Total* ==> | 841 | 0 | 841 | 12 |
| **Ceiling Load** | 295 | -295 | 0 | 0 |
| **Ventilation Load** | 0 | 0 | 0 | 0 |
| **Dehumid. Ov Sizing** | | | 0 | 0 |
| **Ov/Undr Sizing** | 0 | | 0 | 0 |
| **Exhaust Heat** | | -61 | -61 | -1 |
| **Sup. Fan Heat** | | | 0 | 0 |
| **Ret. Fan Heat** | | 0 | 0 | 0 |
| **Duct Heat Pkup** | | 0 | 0 | 0 |
| **Reheat at Design** | | | 0 | 0 |
| ***Grand Total ==>*** | 5,840 | 1,016 | 6,856 | 100.00 |

### CLG SPACE PEAK

Mo/Hr: 8 / 10
OADB: 84

| | Space Sensible Btu/h | Percent Of Total (%) |
|---|---|---|
| **Envelope Loads** | | |
| Skylite Solar | 0 | 0 |
| Skylite Cond | 0 | 0 |
| Roof Cond | 0 | 0 |
| Glass Solar | 2,941 | 57 |
| Glass Cond | 556 | 11 |
| Wall Cond | 458 | 9 |
| Partition | 363 | 7 |
| Exposed Floor | 0 | 0 |
| Infiltration | 204 | 4 |
| *Sub Total* ==> | 4,523 | 87 |
| **Internal Loads** | | |
| Lights | 341 | 7 |
| People | 250 | 5 |
| Misc | 0 | 0 |
| *Sub Total* ==> | 591 | 11 |
| **Ceiling Load** | 66 | 1 |
| **Ventilation Load** | 0 | 0 |
| **Ov/Undr Sizing** | 0 | 0 |
| ***Grand Total ==>*** | 5,180 | 100.00 |

### HEATING COIL PEAK

Mo/Hr: Heating Design
OADB: 47

| | Space Peak Space Sens Btu/h | Coil Peak Tot Sens Btu/h | Percent Of Total (%) |
|---|---|---|---|
| **Envelope Loads** | | | |
| Skylite Solar | 0 | 0 | 0 |
| Skylite Cond | 0 | 0 | 0 |
| Roof Cond | 0 | -208 | 5 |
| Glass Solar | 0 | 0 | 0 |
| Glass Cond | -1,446 | -1,446 | 36 |
| Wall Cond | -663 | -892 | 22 |
| Partition | -1,100 | -1,100 | 27 |
| Exposed Floor | 0 | 0 | 0 |
| Infiltration | -488 | -488 | 12 |
| *Sub Total* ==> | -3,696 | -4,133 | 102 |
| **Internal Loads** | | | |
| Lights | 0 | 0 | 0 |
| People | 0 | 0 | 0 |
| Misc | 0 | 0 | 0 |
| *Sub Total* ==> | 0 | 0 | 0 |
| **Ceiling Load** | -447 | 0 | 0 |
| **Ventilation Load** | 0 | 0 | 0 |
| **Ov/Undr Sizing** | 0 | 0 | 0 |
| **Exhaust Heat** | | 92 | -2 |
| **OA Preheat Diff.** | | 0 | 0 |
| **RA Preheat Diff.** | | 0 | 0 |
| **Additional Reheat** | | 0 | 0 |
| **System Plenum Heat** | | -9 | 0 |
| ***Grand Total ==>*** | -4,143 | -4,051 | 100.00 |

### TEMPERATURES

| | Cooling | Heating |
|---|---|---|
| **SADB** | 57.6 | 68.0 |
| **Plenum** | 77.6 | 64.1 |
| **Return** | 77.6 | 64.1 |
| **Ret/OA** | 77.6 | 47.0 |
| **Fn MtrTD** | 0.0 | 0.0 |
| **Fn BldTD** | 0.0 | 0.0 |
| **Fn Frict** | 0.0 | 0.0 |

### AIRFLOWS

| | Cooling | Heating |
|---|---|---|
| **Vent** | 0 | 0 |
| **Infil** | 21 | 21 |
| **Supply** | 267 | 0 |
| **MinStop/Rh** | 0 | 0 |
| **Return** | 287 | 0 |
| **Exhaust** | 21 | 21 |
| **Rm Exh** | 0 | 0 |
| **Auxil** | 0 | 0 |

### ENGINEERING CKS

| | Cooling | Heating |
|---|---|---|
| **% OA** | 0.0 | 0.0 |
| **cfm/ft²** | 0.75 | 0.00 |
| **cfm/ton** | 466.47 | |
| **ft²/ton** | 624.87 | |
| **Btu/hr·ft²** | 19.20 | -11.60 |
| **No. People** | 1 | |

### COOLING COIL SELECTION

| | Total Capacity ton | Total Capacity MBh | Sens Cap. MBh | Coil Airflow cfm | Enter DB °F | Enter WB °F | Enter gr/lb | Leave DB °F | Leave WB °F | Leave gr/lb |
|---|---|---|---|---|---|---|---|---|---|---|
| **Main Clg** | 0.6 | 6.9 | 5.8 | 247 | 77.6 | 63.5 | 65.1 | 57.6 | 54.2 | 57.5 |
| **Aux Clg** | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| **Opt Vent** | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ***Total*** | 0.6 | 6.9 | | | | | | | | |

### AREAS

| | Gross Total ft² | Glass ft² | Glass (%) |
|---|---|---|---|
| **Floor** | 357 | | |
| **Part** | 135 | | |
| **ExFlr** | 0 | | |
| **Roof** | 357 | 0 | 0 |
| **Wall** | 252 | 65 | 26 |

### HEATING COIL SELECTION

| | Capacity MBh | Coil Airflow cfm | Ent °F | Lvg °F |
|---|---|---|---|---|
| **Main Htg** | -4.1 | 0 | 0.0 | 0.0 |
| **Aux Htg** | 0.0 | 0 | 0.0 | 0.0 |
| **Preheat** | 0.0 | 0 | 0.0 | 0.0 |
| **Humidif** | 0.0 | 0 | 0.0 | 0.0 |
| **Opt Vent** | 0.0 | 0 | 0.0 | 0.0 |
| ***Total*** | -4.1 | | | |

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# Room Checksums

By DFG

## Bedroom #3 2nd Floor

### COOLING COIL PEAK

Peaked at Time: Mo/Hr: 7 / 17
Outside Air: OADB/WB/HR: 88 / 75 / 113

| | Space Sens. + Lat. Btu/h | Plenum Sens. + Lat Btu/h | Net Total Btu/h | Percent Of Total (%) |
|---|---|---|---|---|
| **Envelope Loads** | | | | |
| Skylite Solar | 0 | 0 | 0 | 0 |
| Skylite Cond | 0 | 0 | 0 | 0 |
| Roof Cond | 0 | 1,106 | 1,106 | 11 |
| Glass Solar | 953 | 0 | 953 | 10 |
| Glass Cond | 1,612 | 0 | 1,612 | 16 |
| Wall Cond | 2,773 | 936 | 3,709 | 38 |
| Partition | 542 | | 542 | 6 |
| Exposed Floor | 0 | | 0 | 0 |
| Infiltration | 1,151 | | 1,151 | 12 |
| *Sub Total* ==> | 7,031 | 2,042 | 9,074 | 92 |
| **Internal Loads** | | | | |
| Lights | 341 | 0 | 341 | 3 |
| People | 500 | | 500 | 5 |
| Misc | 0 | 0 | 0 | 0 |
| *Sub Total* ==> | 841 | 0 | 841 | 9 |
| **Ceiling Load** | 377 | -377 | 0 | 0 |
| **Ventilation Load** | 0 | 0 | 0 | 0 |
| **Dehumid. Ov Sizing** | | | 0 | 0 |
| **Ov/Undr Sizing** | 0 | | 0 | 0 |
| **Exhaust Heat** | | -77 | -77 | -1 |
| **Sup. Fan Heat** | | | 0 | 0 |
| **Ret. Fan Heat** | | 0 | 0 | 0 |
| **Duct Heat Pkup** | | 0 | 0 | 0 |
| **Reheat at Design** | | | 0 | 0 |
| ***Grand Total ==>*** | 8,250 | 1,588 | 9,838 | 100.00 |

### CLG SPACE PEAK

Mo/Hr: 8 / 16
OADB: 90

| | Space Sensible Btu/h | Percent Of Total (%) |
|---|---|---|
| **Envelope Loads** | | |
| Skylite Solar | 0 | 0 |
| Skylite Cond | 0 | 0 |
| Roof Cond | 0 | 0 |
| Glass Solar | 914 | 13 |
| Glass Cond | 1,835 | 25 |
| Wall Cond | 2,537 | 35 |
| Partition | 584 | 8 |
| Exposed Floor | 0 | 0 |
| Infiltration | 392 | 5 |
| *Sub Total* ==> | 6,263 | 87 |
| **Internal Loads** | | |
| Lights | 341 | 5 |
| People | 250 | 3 |
| Misc | 0 | 0 |
| *Sub Total* ==> | 591 | 8 |
| **Ceiling Load** | 354 | 5 |
| **Ventilation Load** | 0 | 0 |
| **Ov/Undr Sizing** | 0 | 0 |
| ***Grand Total ==>*** | 7,209 | 100.00 |

### HEATING COIL PEAK

Mo/Hr: Heating Design
OADB: 47

| | Space Peak Space Sens Btu/h | Coil Peak Tot Sens Btu/h | Percent Of Total (%) |
|---|---|---|---|
| **Envelope Loads** | | | |
| Skylite Solar | 0 | 0 | 0 |
| Skylite Cond | 0 | 0 | 0 |
| Roof Cond | 0 | -240 | 4 |
| Glass Solar | 0 | 0 | 0 |
| Glass Cond | -2,857 | -2,857 | 43 |
| Wall Cond | -2,039 | -2,661 | 40 |
| Partition | -815 | -815 | 12 |
| Exposed Floor | 0 | 0 | 0 |
| Infiltration | -561 | -561 | 8 |
| *Sub Total* ==> | -6,271 | -7,132 | 107 |
| **Internal Loads** | | | |
| Lights | 0 | 0 | 0 |
| People | 0 | 0 | 0 |
| Misc | 0 | 0 | 0 |
| *Sub Total* ==> | 0 | 0 | 0 |
| **Ceiling Load** | -514 | 0 | 0 |
| **Ventilation Load** | 0 | 0 | 0 |
| **Ov/Undr Sizing** | 0 | 0 | 0 |
| **Exhaust Heat** | | 105 | -2 |
| **OA Preheat Diff.** | | 0 | 0 |
| **RA Preheat Diff.** | | 0 | 0 |
| **Additional Reheat** | | 0 | 0 |
| **System Plenum Heat** | | 348 | -5 |
| ***Grand Total ==>*** | -6,785 | -6,679 | 100.00 |

### TEMPERATURES

| | Cooling | Heating |
|---|---|---|
| **SADB** | 57.6 | 68.0 |
| **Plenum** | 77.9 | 64.1 |
| **Return** | 77.9 | 64.1 |
| **Ret/OA** | 77.9 | 47.0 |
| **Fn MtrTD** | 0.0 | 0.0 |
| **Fn BldTD** | 0.0 | 0.0 |
| **Fn Frict** | 0.0 | 0.0 |

### AIRFLOWS

| | Cooling | Heating |
|---|---|---|
| **Vent** | 0 | 0 |
| **Infil** | 24 | 24 |
| **Supply** | 371 | 0 |
| **MinStop/Rh** | 0 | 0 |
| **Return** | 395 | 0 |
| **Exhaust** | 24 | 24 |
| **Rm Exh** | 0 | 0 |
| **Auxil** | 0 | 0 |

### ENGINEERING CKS

| | Cooling | Heating |
|---|---|---|
| **% OA** | 0.0 | 0.0 |
| **cfm/ft²** | 0.90 | 0.00 |
| **cfm/ton** | 452.37 | |
| **ft²/ton** | 500.61 | |
| **Btu/hr·ft²** | 23.97 | -16.53 |
| **No. People** | 1 | |

### COOLING COIL SELECTION

| | Total Capacity ton | Total Capacity MBh | Sens Cap. MBh | Coil Airflow cfm | Enter DB/WB/HR °F | °F | gr/lb | Leave DB/WB/HR °F | °F | gr/lb |
|---|---|---|---|---|---|---|---|---|---|---|
| **Main Clg** | 0.8 | 9.8 | 8.8 | 370 | 77.9 | 63.6 | 65.1 | 57.6 | 54.8 | 59.5 |
| **Aux Clg** | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| **Opt Vent** | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ***Total*** | 0.8 | 9.8 | | | | | | | | |

### AREAS

| | Gross Total ft² | Glass ft² | Glass (%) |
|---|---|---|---|
| **Floor** | 410 | | |
| **Part** | 100 | | |
| **ExFlr** | 0 | | |
| **Roof** | 410 | 0 | 0 |
| **Wall** | 684 | 127 | 19 |

### HEATING COIL SELECTION

| | Capacity MBh | Coil Airflow cfm | Ent °F | Lvg °F |
|---|---|---|---|---|
| **Main Htg** | -6.8 | 0 | 0.0 | 0.0 |
| **Aux Htg** | 0.0 | 0 | 0.0 | 0.0 |
| **Preheat** | 0.0 | 0 | 0.0 | 0.0 |
| **Humidif** | 0.0 | 0 | 0.0 | 0.0 |
| **Opt Vent** | 0.0 | 0 | 0.0 | 0.0 |
| ***Total*** | -6.8 | | | |

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# Room Checksums

By DFG

## Billards

### COOLING COIL PEAK

Peaked at Time: Mo/Hr: 8 / 10
Outside Air: OADB/WB/HR: 84 / 73 / 105

| | Space Sens. + Lat. Btu/h | Plenum Sens. + Lat Btu/h | Net Total Btu/h | Percent Of Total (%) |
|---|---|---|---|---|
| **Envelope Loads** | | | | |
| Skylite Solar | 0 | 0 | 0 | 0 |
| Skylite Cond | 0 | 0 | 0 | 0 |
| Roof Cond | 0 | 5 | 5 | 0 |
| Glass Solar | 9,127 | 0 | 9,127 | 62 |
| Glass Cond | 2,956 | 0 | 2,956 | 20 |
| Wall Cond | 567 | 371 | 938 | 6 |
| Partition | 0 | | 0 | 0 |
| Exposed Floor | 0 | | 0 | 0 |
| Infiltration | 767 | | 767 | 5 |
| *Sub Total* ==> | 13,417 | 376 | 13,793 | 94 |
| **Internal Loads** | | | | |
| Lights | 341 | 0 | 341 | 2 |
| People | 500 | | 500 | 3 |
| Misc | 0 | 0 | 0 | 0 |
| *Sub Total* ==> | 841 | 0 | 841 | 6 |
| **Ceiling Load** | 38 | -38 | 0 | 0 |
| **Ventilation Load** | 0 | 0 | 0 | 0 |
| **Dehumid. Ov Sizing** | | | 0 | 0 |
| **Ov/Undr Sizing** | 0 | | 0 | 0 |
| **Exhaust Heat** | | -8 | -8 | 0 |
| **Sup. Fan Heat** | | | 0 | 0 |
| **Ret. Fan Heat** | | 0 | 0 | 0 |
| **Duct Heat Pkup** | | 0 | 0 | 0 |
| **Reheat at Design** | | | 0 | 0 |
| ***Grand Total ==>*** | 14,297 | 330 | 14,627 | 100.00 |

### CLG SPACE PEAK

Mo/Hr: 8 / 10
OADB: 84

| | Space Sensible Btu/h | Percent Of Total (%) |
|---|---|---|
| **Envelope Loads** | | |
| Skylite Solar | 0 | 0 |
| Skylite Cond | 0 | 0 |
| Roof Cond | 0 | 0 |
| Glass Solar | 9,127 | 68 |
| Glass Cond | 2,956 | 22 |
| Wall Cond | 567 | 4 |
| Partition | 0 | 0 |
| Exposed Floor | 0 | 0 |
| Infiltration | 198 | 1 |
| *Sub Total* ==> | 12,848 | 95 |
| **Internal Loads** | | |
| Lights | 341 | 3 |
| People | 250 | 2 |
| Misc | 0 | 0 |
| *Sub Total* ==> | 591 | 4 |
| **Ceiling Load** | 38 | 0 |
| **Ventilation Load** | 0 | 0 |
| **Ov/Undr Sizing** | 0 | 0 |
| ***Grand Total ==>*** | 13,478 | 100.00 |

### HEATING COIL PEAK

Mo/Hr: Heating Design
OADB: 47

| | Space Peak Space Sens Btu/h | Coil Peak Tot Sens Btu/h | Percent Of Total (%) |
|---|---|---|---|
| **Envelope Loads** | | | |
| Skylite Solar | 0 | 0 | 0 |
| Skylite Cond | 0 | 0 | 0 |
| Roof Cond | 0 | -17 | 0 |
| Glass Solar | 0 | 0 | 0 |
| Glass Cond | -7,681 | -7,681 | 71 |
| Wall Cond | -1,255 | -2,074 | 19 |
| Partition | 0 | 0 | 0 |
| Exposed Floor | 0 | 0 | 0 |
| Infiltration | -473 | -473 | 4 |
| *Sub Total* ==> | -9,409 | -10,245 | 95 |
| **Internal Loads** | | | |
| Lights | 0 | 0 | 0 |
| People | 0 | 0 | 0 |
| Misc | 0 | 0 | 0 |
| *Sub Total* ==> | 0 | 0 | 0 |
| **Ceiling Load** | -91 | 0 | 0 |
| **Ventilation Load** | 0 | 0 | 0 |
| **Ov/Undr Sizing** | -654 | -654 | 6 |
| **Exhaust Heat** | | 19 | 0 |
| **OA Preheat Diff.** | | 0 | 0 |
| **RA Preheat Diff.** | | 0 | 0 |
| **Additional Reheat** | | 0 | 0 |
| **System Plenum Heat** | | 42 | 0 |
| ***Grand Total ==>*** | -10,154 | -10,839 | 100.00 |

### TEMPERATURES

| | Cooling | Heating |
|---|---|---|
| **SADB** | 58.7 | 80.3 |
| **Plenum** | 75.4 | 67.2 |
| **Return** | 75.4 | 67.2 |
| **Ret/OA** | 75.4 | 67.2 |
| **Fn MtrTD** | 0.0 | 0.0 |
| **Fn BldTD** | 0.0 | 0.0 |
| **Fn Frict** | 0.0 | 0.0 |

### AIRFLOWS

| | Cooling | Heating |
|---|---|---|
| **Vent** | 0 | 0 |
| **Infil** | 20 | 20 |
| **Supply** | 740 | 740 |
| **MinStop/Rh** | 0 | 0 |
| **Return** | 761 | 761 |
| **Exhaust** | 20 | 20 |
| **Rm Exh** | 0 | 0 |
| **Auxil** | 0 | 0 |

### ENGINEERING CKS

| | Cooling | Heating |
|---|---|---|
| **% OA** | 0.0 | 0.0 |
| **cfm/ft²** | 2.14 | 2.14 |
| **cfm/ton** | 607.46 | |
| **ft²/ton** | 284.27 | |
| **Btu/hr·ft²** | 42.21 | -31.28 |
| **No. People** | 1 | |

### COOLING COIL SELECTION

| | Total Capacity ton | Total Capacity MBh | Sens Cap. MBh | Coil Airflow cfm | Enter DB °F | Enter WB °F | Enter gr/lb | Leave DB °F | Leave WB °F | Leave gr/lb |
|---|---|---|---|---|---|---|---|---|---|---|
| **Main Clg** | 1.2 | 14.6 | 13.8 | 740 | 75.4 | 62.7 | 64.9 | 58.7 | 56.1 | 63.3 |
| **Aux Clg** | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| **Opt Vent** | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ***Total*** | 1.2 | 14.6 | | | | | | | | |

### AREAS

| | Gross Total | Glass ft² | Glass (%) |
|---|---|---|---|
| **Floor** | 347 | | |
| **Part** | 0 | | |
| **ExFlr** | 0 | | |
| **Roof** | 25 | 0 | 0 |
| **Wall** | 761 | 343 | 45 |

### HEATING COIL SELECTION

| | Capacity MBh | Coil Airflow cfm | Ent °F | Lvg °F |
|---|---|---|---|---|
| **Main Htg** | -10.8 | 740 | 67.2 | 80.3 |
| **Aux Htg** | 0.0 | 0 | 0.0 | 0.0 |
| **Preheat** | 0.0 | 0 | 0.0 | 0.0 |
| **Humidif** | 0.0 | 0 | 0.0 | 0.0 |
| **Opt Vent** | 0.0 | 0 | 0.0 | 0.0 |
| ***Total*** | -10.8 | | | |

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# Room Checksums

By DFG

## Dinning Room

### COOLING COIL PEAK

Peaked at Time: Mo/Hr: 8 / 17
Outside Air: OADB/WB/HR: 89 / 76 / 116

| | Space Sens. + Lat. Btu/h | Plenum Sens. + Lat Btu/h | Net Total Btu/h | Percent Of Total (%) |
|---|---|---|---|---|
| **Envelope Loads** | | | | |
| Skylite Solar | 0 | 0 | 0 | 0 |
| Skylite Cond | 0 | 0 | 0 | 0 |
| Roof Cond | 0 | 274 | 274 | 2 |
| Glass Solar | 6,791 | 0 | 6,791 | 52 |
| Glass Cond | 1,833 | 0 | 1,833 | 14 |
| Wall Cond | 580 | 417 | 997 | 8 |
| Partition | 1,164 | | 1,164 | 9 |
| Exposed Floor | 0 | | 0 | 0 |
| Infiltration | 1,075 | | 1,075 | 8 |
| *Sub Total* ==> | 11,443 | 691 | 12,135 | 94 |
| **Internal Loads** | | | | |
| Lights | 341 | 0 | 341 | 3 |
| People | 500 | | 500 | 4 |
| Misc | 0 | 0 | 0 | 0 |
| *Sub Total* ==> | 841 | 0 | 841 | 6 |
| **Ceiling Load** | 108 | -108 | 0 | 0 |
| **Ventilation Load** | 0 | 0 | 0 | 0 |
| **Dehumid. Ov Sizing** | | | 0 | 0 |
| **Ov/Undr Sizing** | 0 | | 0 | 0 |
| **Exhaust Heat** | | -22 | -22 | 0 |
| **Sup. Fan Heat** | | | 0 | 0 |
| **Ret. Fan Heat** | | 0 | 0 | 0 |
| **Duct Heat Pkup** | | 0 | 0 | 0 |
| **Reheat at Design** | | | 0 | 0 |
| ***Grand Total ==>*** | 12,393 | 561 | 12,954 | 100.00 |

### CLG SPACE PEAK

Mo/Hr: 8 / 17
OADB: 89

| | Space Sensible Btu/h | Percent Of Total (%) |
|---|---|---|
| **Envelope Loads** | | |
| Skylite Solar | 0 | 0 |
| Skylite Cond | 0 | 0 |
| Roof Cond | 0 | 0 |
| Glass Solar | 6,791 | 60 |
| Glass Cond | 1,833 | 16 |
| Wall Cond | 580 | 5 |
| Partition | 1,164 | 10 |
| Exposed Floor | 0 | 0 |
| Infiltration | 326 | 3 |
| *Sub Total* ==> | 10,695 | 94 |
| **Internal Loads** | | |
| Lights | 341 | 3 |
| People | 250 | 2 |
| Misc | 0 | 0 |
| *Sub Total* ==> | 591 | 5 |
| **Ceiling Load** | 108 | 1 |
| **Ventilation Load** | 0 | 0 |
| **Ov/Undr Sizing** | 0 | 0 |
| ***Grand Total ==>*** | 11,394 | 100.00 |

### HEATING COIL PEAK

Mo/Hr: Heating Design
OADB: 47

| | Space Peak Space Sens Btu/h | Coil Peak Tot Sens Btu/h | Percent Of Total (%) |
|---|---|---|---|
| **Envelope Loads** | | | |
| Skylite Solar | 0 | 0 | 0 |
| Skylite Cond | 0 | 0 | 0 |
| Roof Cond | 0 | -64 | 1 |
| Glass Solar | 0 | 0 | 0 |
| Glass Cond | -3,016 | -3,016 | 52 |
| Wall Cond | -423 | -703 | 12 |
| Partition | -1,629 | -1,629 | 28 |
| Exposed Floor | 0 | 0 | 0 |
| Infiltration | -493 | -493 | 9 |
| *Sub Total* ==> | -5,561 | -5,905 | 102 |
| **Internal Loads** | | | |
| Lights | 0 | 0 | 0 |
| People | 0 | 0 | 0 |
| Misc | 0 | 0 | 0 |
| *Sub Total* ==> | 0 | 0 | 0 |
| **Ceiling Load** | -263 | 0 | 0 |
| **Ventilation Load** | 0 | 0 | 0 |
| **Ov/Undr Sizing** | 0 | 0 | 0 |
| **Exhaust Heat** | | 54 | -1 |
| **OA Preheat Diff.** | | 0 | 0 |
| **RA Preheat Diff.** | | 0 | 0 |
| **Additional Reheat** | | 0 | 0 |
| **System Plenum Heat** | | 81 | -1 |
| ***Grand Total ==>*** | -5,824 | -5,770 | 100.00 |

### TEMPERATURES

| | Cooling | Heating |
|---|---|---|
| **SADB** | 59.0 | 68.0 |
| **Plenum** | 75.9 | 65.7 |
| **Return** | 75.9 | 65.7 |
| **Ret/OA** | 75.9 | 47.0 |
| **Fn MtrTD** | 0.0 | 0.0 |
| **Fn BldTD** | 0.0 | 0.0 |
| **Fn Frict** | 0.0 | 0.0 |

### AIRFLOWS

| | Cooling | Heating |
|---|---|---|
| **Vent** | 0 | 0 |
| **Infil** | 21 | 21 |
| **Supply** | 638 | 0 |
| **MinStop/Rh** | 0 | 0 |
| **Return** | 659 | 0 |
| **Exhaust** | 21 | 21 |
| **Rm Exh** | 0 | 0 |
| **Auxil** | 0 | 0 |

### ENGINEERING CKS

| | Cooling | Heating |
|---|---|---|
| **% OA** | 0.0 | 0.0 |
| **cfm/ft²** | 1.77 | 0.00 |
| **cfm/ton** | 590.92 | |
| **ft²/ton** | 334.42 | |
| **Btu/hr·ft²** | 35.88 | -16.13 |
| **No. People** | 1 | |

### COOLING COIL SELECTION

| | Total Capacity ton | Total Capacity MBh | Sens Cap. MBh | Coil Airflow cfm | Enter DB °F | Enter WB °F | Enter HR gr/lb | Leave DB °F | Leave WB °F | Leave HR gr/lb |
|---|---|---|---|---|---|---|---|---|---|---|
| **Main Clg** | 1.1 | 13.0 | 12.0 | 638 | 75.9 | 62.9 | 65.1 | 59.0 | 56.2 | 63.1 |
| **Aux Clg** | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| **Opt Vent** | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ***Total*** | 1.1 | 13.0 | | | | | | | | |

### AREAS

| | Gross Total | Glass ft² | Glass (%) |
|---|---|---|---|
| **Floor** | 361 | | |
| **Part** | 200 | | |
| **ExFlr** | 0 | | |
| **Roof** | 100 | 0 | 0 |
| **Wall** | 281 | 135 | 48 |

### HEATING COIL SELECTION

| | Capacity MBh | Coil Airflow cfm | Ent °F | Lvg °F |
|---|---|---|---|---|
| **Main Htg** | -5.8 | 0 | 0.0 | 0.0 |
| **Aux Htg** | 0.0 | 0 | 0.0 | 0.0 |
| **Preheat** | 0.0 | 0 | 0.0 | 0.0 |
| **Humidif** | 0.0 | 0 | 0.0 | 0.0 |
| **Opt Vent** | 0.0 | 0 | 0.0 | 0.0 |
| ***Total*** | -5.8 | | | |

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# Room Checksums

By DFG

## Family Room

### COOLING COIL PEAK

Peaked at Time: Mo/Hr: 9 / 14
Outside Air: OADB/WB/HR: 88 / 74 / 106

| | Space Sens. + Lat. Btu/h | Plenum Sens. + Lat Btu/h | Net Total Btu/h | Percent Of Total (%) |
|---|---|---|---|---|
| **Envelope Loads** | | | | |
| Skylite Solar | 0 | 0 | 0 | 0 |
| Skylite Cond | 0 | 0 | 0 | 0 |
| Roof Cond | 0 | 1,442 | 1,442 | 8 |
| Glass Solar | 6,603 | 0 | 6,603 | 36 |
| Glass Cond | 4,721 | 0 | 4,721 | 26 |
| Wall Cond | 1,706 | 938 | 2,644 | 14 |
| Partition | 332 | | 332 | 2 |
| Exposed Floor | 0 | | 0 | 0 |
| Infiltration | 1,998 | | 1,998 | 11 |
| *Sub Total* ==> | 15,360 | 2,380 | 17,740 | 96 |
| **Internal Loads** | | | | |
| Lights | 341 | 0 | 341 | 2 |
| People | 500 | | 500 | 3 |
| Misc | 0 | 0 | 0 | 0 |
| *Sub Total* ==> | 841 | 0 | 841 | 5 |
| **Ceiling Load** | 384 | -384 | 0 | 0 |
| **Ventilation Load** | 0 | 0 | 0 | 0 |
| **Dehumid. Ov Sizing** | | | 0 | 0 |
| **Ov/Undr Sizing** | 0 | | 0 | 0 |
| **Exhaust Heat** | | -79 | -79 | 0 |
| **Sup. Fan Heat** | | | 0 | 0 |
| **Ret. Fan Heat** | | 0 | 0 | 0 |
| **Duct Heat Pkup** | | 0 | 0 | 0 |
| **Reheat at Design** | | | 0 | 0 |
| ***Grand Total ==>*** | 16,585 | 1,918 | 18,502 | 100.00 |

### CLG SPACE PEAK

Mo/Hr: 9 / 10
OADB: 82

| | Space Sensible Btu/h | Percent Of Total (%) |
|---|---|---|
| **Envelope Loads** | | |
| Skylite Solar | 0 | 0 |
| Skylite Cond | 0 | 0 |
| Roof Cond | 0 | 0 |
| Glass Solar | 11,611 | 72 |
| Glass Cond | 2,631 | 16 |
| Wall Cond | 609 | 4 |
| Partition | 153 | 1 |
| Exposed Floor | 0 | 0 |
| Infiltration | 372 | 2 |
| *Sub Total* ==> | 15,376 | 96 |
| **Internal Loads** | | |
| Lights | 341 | 2 |
| People | 250 | 2 |
| Misc | 0 | 0 |
| *Sub Total* ==> | 591 | 4 |
| **Ceiling Load** | 72 | 0 |
| **Ventilation Load** | 0 | 0 |
| **Ov/Undr Sizing** | 0 | 0 |
| ***Grand Total ==>*** | 16,040 | 100.00 |

### HEATING COIL PEAK

Mo/Hr: Heating Design
OADB: 47

| | Space Peak Space Sens Btu/h | Coil Peak Tot Sens Btu/h | Percent Of Total (%) |
|---|---|---|---|
| **Envelope Loads** | | | |
| Skylite Solar | 0 | 0 | 0 |
| Skylite Cond | 0 | 0 | 0 |
| Roof Cond | 0 | -534 | 3 |
| Glass Solar | 0 | 0 | 0 |
| Glass Cond | -8,240 | -8,240 | 49 |
| Wall Cond | -1,717 | -2,685 | 16 |
| Partition | -587 | -587 | 3 |
| Exposed Floor | 0 | 0 | 0 |
| Infiltration | -1,070 | -1,070 | 6 |
| *Sub Total* ==> | -11,614 | -13,115 | 78 |
| **Internal Loads** | | | |
| Lights | 0 | 0 | 0 |
| People | 0 | 0 | 0 |
| Misc | 0 | 0 | 0 |
| *Sub Total* ==> | 0 | 0 | 0 |
| **Ceiling Load** | -269 | 0 | 0 |
| **Ventilation Load** | 0 | 0 | 0 |
| **Ov/Undr Sizing** | -3,924 | -3,924 | 23 |
| **Exhaust Heat** | | 55 | 0 |
| **OA Preheat Diff.** | | 0 | 0 |
| **RA Preheat Diff.** | | 0 | 0 |
| **Additional Reheat** | | 0 | 0 |
| **System Plenum Heat** | | 219 | -1 |
| ***Grand Total ==>*** | -15,807 | -16,765 | 100.00 |

### TEMPERATURES

| | Cooling | Heating |
|---|---|---|
| **SADB** | 56.9 | 85.9 |
| **Plenum** | 76.6 | 66.9 |
| **Return** | 76.6 | 66.9 |
| **Ret/OA** | 76.6 | 66.9 |
| **Fn MtrTD** | 0.0 | 0.0 |
| **Fn BldTD** | 0.0 | 0.0 |
| **Fn Frict** | 0.1 | 0.0 |

### AIRFLOWS

| | Cooling | Heating |
|---|---|---|
| **Vent** | 0 | 0 |
| **Infil** | 46 | 46 |
| **Supply** | 794 | 794 |
| **MinStop/Rh** | 0 | 0 |
| **Return** | 839 | 839 |
| **Exhaust** | 46 | 46 |
| **Rm Exh** | 0 | 0 |
| **Auxil** | 0 | 0 |

### ENGINEERING CKS

| | Cooling | Heating |
|---|---|---|
| **% OA** | 0.0 | 0.0 |
| **cfm/ft²** | 1.01 | 1.01 |
| **cfm/ton** | 514.75 | |
| **ft²/ton** | 507.83 | |
| **Btu/hr·ft²** | 23.63 | -21.41 |
| **No. People** | 1 | |

### COOLING COIL SELECTION

| | Total Capacity ton | Total Capacity MBh | Sens Cap. MBh | Coil Airflow cfm | Enter DB °F | Enter WB °F | Enter HR gr/lb | Leave DB °F | Leave WB °F | Leave HR gr/lb |
|---|---|---|---|---|---|---|---|---|---|---|
| **Main Clg** | 1.5 | 18.5 | 16.9 | 794 | 76.6 | 63.1 | 64.9 | 56.7 | 55.3 | 63.2 |
| **Aux Clg** | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| **Opt Vent** | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ***Total*** | 1.5 | 18.5 | | | | | | | | |

### AREAS

| | Gross Total ft² | Glass ft² | Glass (%) |
|---|---|---|---|
| **Floor** | 783 | | |
| **Part** | 72 | | |
| **ExFlr** | 0 | | |
| **Roof** | 783 | 0 | 0 |
| **Wall** | 911 | 368 | 40 |

### HEATING COIL SELECTION

| | Capacity MBh | Coil Airflow cfm | Ent °F | Lvg °F |
|---|---|---|---|---|
| **Main Htg** | -16.8 | 794 | 66.9 | 85.9 |
| **Aux Htg** | 0.0 | 0 | 0.0 | 0.0 |
| **Preheat** | 0.0 | 0 | 0.0 | 0.0 |
| **Humidif** | 0.0 | 0 | 0.0 | 0.0 |
| **Opt Vent** | 0.0 | 0 | 0.0 | 0.0 |
| ***Total*** | -16.8 | | | |



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# Room Checksums

By DFG

## Foyer 1rst Floor

### COOLING COIL PEAK

Peaked at Time: Mo/Hr: 9 / 17
Outside Air: OADB/WB/HR: 87 / 75 / 110

| | Space Sens. + Lat. Btu/h | Plenum Sens. + Lat Btu/h | Net Total Btu/h | Percent Of Total (%) |
|---|---|---|---|---|
| **Envelope Loads** | | | | |
| Skylite Solar | 0 | 0 | 0 | 0 |
| Skylite Cond | 0 | 0 | 0 | 0 |
| Roof Cond | 0 | 252 | 252 | 2 |
| Glass Solar | 7,035 | 0 | 7,035 | 61 |
| Glass Cond | 2,098 | 0 | 2,098 | 18 |
| Wall Cond | 0 | 179 | 179 | 2 |
| Partition | 518 | | 518 | 4 |
| Exposed Floor | 0 | | 0 | 0 |
| Infiltration | 647 | | 647 | 6 |
| *Sub Total* ==> | 10,298 | 431 | 10,729 | 93 |
| **Internal Loads** | | | | |
| Lights | 341 | 0 | 341 | 3 |
| People | 500 | | 500 | 4 |
| Misc | 0 | 0 | 0 | 0 |
| *Sub Total* ==> | 841 | 0 | 841 | 7 |
| **Ceiling Load** | 73 | -73 | 0 | 0 |
| **Ventilation Load** | 0 | 0 | 0 | 0 |
| **Dehumid. Ov Sizing** | | | 0 | 0 |
| **Ov/Undr Sizing** | 0 | | 0 | 0 |
| **Exhaust Heat** | | -15 | -15 | 0 |
| **Sup. Fan Heat** | | | 0 | 0 |
| **Ret. Fan Heat** | | 0 | 0 | 0 |
| **Duct Heat Pkup** | | 0 | 0 | 0 |
| **Reheat at Design** | | | 0 | 0 |
| ***Grand Total ==>*** | 11,212 | 343 | 11,555 | 100.00 |

### CLG SPACE PEAK

Mo/Hr: 9 / 17
OADB: 87

| | Space Sensible Btu/h | Percent Of Total (%) |
|---|---|---|
| **Envelope Loads** | | |
| Skylite Solar | 0 | 0 |
| Skylite Cond | 0 | 0 |
| Roof Cond | 0 | 0 |
| Glass Solar | 7,035 | 67 |
| Glass Cond | 2,098 | 20 |
| Wall Cond | 0 | 0 |
| Partition | 518 | 5 |
| Exposed Floor | 0 | 0 |
| Infiltration | 197 | 2 |
| *Sub Total* ==> | 9,848 | 94 |
| **Internal Loads** | | |
| Lights | 341 | 3 |
| People | 250 | 2 |
| Misc | 0 | 0 |
| *Sub Total* ==> | 591 | 6 |
| **Ceiling Load** | 73 | 1 |
| **Ventilation Load** | 0 | 0 |
| **Ov/Undr Sizing** | 0 | 0 |
| ***Grand Total ==>*** | 10,512 | 100.00 |

### HEATING COIL PEAK

Mo/Hr: Heating Design
OADB: 47

| | Space Peak Space Sens Btu/h | Coil Peak Tot Sens Btu/h | Percent Of Total (%) |
|---|---|---|---|
| **Envelope Loads** | | | |
| Skylite Solar | 0 | 0 | 0 |
| Skylite Cond | 0 | 0 | 0 |
| Roof Cond | 0 | -64 | 1 |
| Glass Solar | 0 | 0 | 0 |
| Glass Cond | -3,900 | -3,900 | 75 |
| Wall Cond | 0 | -135 | 3 |
| Partition | -815 | -815 | 16 |
| Exposed Floor | 0 | 0 | 0 |
| Infiltration | -336 | -336 | 6 |
| *Sub Total* ==> | -5,051 | -5,249 | 101 |
| **Internal Loads** | | | |
| Lights | 0 | 0 | 0 |
| People | 0 | 0 | 0 |
| Misc | 0 | 0 | 0 |
| *Sub Total* ==> | 0 | 0 | 0 |
| **Ceiling Load** | -179 | 0 | 0 |
| **Ventilation Load** | 0 | 0 | 0 |
| **Ov/Undr Sizing** | 0 | 0 | 0 |
| **Exhaust Heat** | | 37 | -1 |
| **OA Preheat Diff.** | | 0 | 0 |
| **RA Preheat Diff.** | | 0 | 0 |
| **Additional Reheat** | | 0 | 0 |
| **System Plenum Heat** | | 19 | 0 |
| ***Grand Total ==>*** | -5,230 | -5,193 | 100.00 |

### TEMPERATURES

| | Cooling | Heating |
|---|---|---|
| **SADB** | 59.0 | 68.0 |
| **Plenum** | 75.9 | 65.7 |
| **Return** | 75.9 | 65.7 |
| **Ret/OA** | 75.9 | 47.0 |
| **Fn MtrTD** | 0.0 | 0.0 |
| **Fn BldTD** | 0.0 | 0.0 |
| **Fn Frict** | 0.0 | 0.0 |

### AIRFLOWS

| | Cooling | Heating |
|---|---|---|
| **Vent** | 0 | 0 |
| **Infil** | 14 | 14 |
| **Supply** | 589 | 0 |
| **MinStop/Rh** | 0 | 0 |
| **Return** | 603 | 0 |
| **Exhaust** | 14 | 14 |
| **Rm Exh** | 0 | 0 |
| **Auxil** | 0 | 0 |

### ENGINEERING CKS

| | Cooling | Heating |
|---|---|---|
| **% OA** | 0.0 | 0.0 |
| **cfm/ft²** | 2.39 | 0.00 |
| **cfm/ton** | 611.20 | |
| **ft²/ton** | 255.47 | |
| **Btu/hr·ft²** | 46.97 | -21.26 |
| **No. People** | 1 | |

### COOLING COIL SELECTION

| | Total Capacity ton | Total Capacity MBh | Sens Cap. MBh | Coil Airflow cfm | Enter DB/WB/HR °F | °F | gr/lb | Leave DB/WB/HR °F | °F | gr/lb |
|---|---|---|---|---|---|---|---|---|---|---|
| **Main Clg** | 1.0 | 11.6 | 10.9 | 589 | 75.9 | 62.9 | 65.1 | 59.0 | 56.4 | 64.0 |
| **Aux Clg** | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| **Opt Vent** | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ***Total*** | 1.0 | 11.6 | | | | | | | | |

### AREAS

| | Gross Total ft² | Glass ft² | Glass (%) |
|---|---|---|---|
| **Floor** | 246 | | |
| **Part** | 100 | | |
| **ExFlr** | 0 | | |
| **Roof** | 100 | 0 | 0 |
| **Wall** | 204 | 174 | 85 |

### HEATING COIL SELECTION

| | Capacity MBh | Coil Airflow cfm | Ent °F | Lvg °F |
|---|---|---|---|---|
| **Main Htg** | -5.2 | 0 | 0.0 | 0.0 |
| **Aux Htg** | 0.0 | 0 | 0.0 | 0.0 |
| **Preheat** | 0.0 | 0 | 0.0 | 0.0 |
| **Humidif** | 0.0 | 0 | 0.0 | 0.0 |
| **Opt Vent** | 0.0 | 0 | 0.0 | 0.0 |
| ***Total*** | -5.2 | | | |

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# Room Checksums

By DFG

## Great Room

### COOLING COIL PEAK

Peaked at Time: Mo/Hr: 8 / 9
Outside Air: OADB/WB/HR: 82 / 73 / 107

| | Space Sens. + Lat. Btu/h | Plenum Sens. + Lat Btu/h | Net Total Btu/h | Percent Of Total (%) |
|---|---|---|---|---|
| **Envelope Loads** | | | | |
| Skylite Solar | 0 | 0 | 0 | 0 |
| Skylite Cond | 0 | 0 | 0 | 0 |
| Roof Cond | 0 | 0 | 0 | 0 |
| Glass Solar | 14,352 | 0 | 14,352 | 74 |
| Glass Cond | 1,966 | 0 | 1,966 | 10 |
| Wall Cond | 58 | 199 | 257 | 1 |
| Partition | 441 | | 441 | 2 |
| Exposed Floor | 0 | | 0 | 0 |
| Infiltration | 1,672 | | 1,672 | 9 |
| *Sub Total* ==> | 18,489 | 199 | 18,689 | 96 |
| **Internal Loads** | | | | |
| Lights | 341 | 0 | 341 | 2 |
| People | 500 | | 500 | 3 |
| Misc | 0 | 0 | 0 | 0 |
| *Sub Total* ==> | 841 | 0 | 841 | 4 |
| **Ceiling Load** | 48 | -48 | 0 | 0 |
| **Ventilation Load** | 0 | 0 | 0 | 0 |
| **Dehumid. Ov Sizing** | | | 0 | 0 |
| **Ov/Undr Sizing** | 0 | | 0 | 0 |
| **Exhaust Heat** | | -10 | -10 | 0 |
| **Sup. Fan Heat** | | | 0 | 0 |
| **Ret. Fan Heat** | | 0 | 0 | 0 |
| **Duct Heat Pkup** | | 0 | 0 | 0 |
| **Reheat at Design** | | | 0 | 0 |
| ***Grand Total ==>*** | 19,379 | 141 | 19,520 | 100.00 |

### CLG SPACE PEAK

Mo/Hr: 8 / 9
OADB: 82

| | Space Sensible Btu/h | Percent Of Total (%) |
|---|---|---|
| **Envelope Loads** | | |
| Skylite Solar | 0 | 0 |
| Skylite Cond | 0 | 0 |
| Roof Cond | 0 | 0 |
| Glass Solar | 14,352 | 81 |
| Glass Cond | 1,966 | 11 |
| Wall Cond | 58 | 0 |
| Partition | 441 | 2 |
| Exposed Floor | 0 | 0 |
| Infiltration | 354 | 2 |
| *Sub Total* ==> | 17,171 | 96 |
| **Internal Loads** | | |
| Lights | 341 | 2 |
| People | 250 | 1 |
| Misc | 0 | 0 |
| *Sub Total* ==> | 591 | 3 |
| **Ceiling Load** | 48 | 0 |
| **Ventilation Load** | 0 | 0 |
| **Ov/Undr Sizing** | 0 | 0 |
| ***Grand Total ==>*** | 17,811 | 100.00 |

### HEATING COIL PEAK

Mo/Hr: Heating Design
OADB: 47

| | Space Peak Space Sens Btu/h | Coil Peak Tot Sens Btu/h | Percent Of Total (%) |
|---|---|---|---|
| **Envelope Loads** | | | |
| Skylite Solar | 0 | 0 | 0 |
| Skylite Cond | 0 | 0 | 0 |
| Roof Cond | 0 | -64 | 1 |
| Glass Solar | 0 | 0 | 0 |
| Glass Cond | -6,341 | -6,341 | 66 |
| Wall Cond | -127 | -521 | 5 |
| Partition | -1,629 | -1,629 | 17 |
| Exposed Floor | 0 | 0 | 0 |
| Infiltration | -1,049 | -1,049 | 11 |
| *Sub Total* ==> | -9,146 | -9,605 | 100 |
| **Internal Loads** | | | |
| Lights | 0 | 0 | 0 |
| People | 0 | 0 | 0 |
| Misc | 0 | 0 | 0 |
| *Sub Total* ==> | 0 | 0 | 0 |
| **Ceiling Load** | -560 | 0 | 0 |
| **Ventilation Load** | 0 | 0 | 0 |
| **Ov/Undr Sizing** | 0 | 0 | 0 |
| **Exhaust Heat** | | 115 | -1 |
| **OA Preheat Diff.** | | 0 | 0 |
| **RA Preheat Diff.** | | 0 | 0 |
| **Additional Reheat** | | 0 | 0 |
| **System Plenum Heat** | | -101 | 1 |
| ***Grand Total ==>*** | -9,705 | -9,590 | 100.00 |

### TEMPERATURES

| | Cooling | Heating |
|---|---|---|
| **SADB** | 59.0 | 68.0 |
| **Plenum** | 75.2 | 65.7 |
| **Return** | 75.2 | 65.7 |
| **Ret/OA** | 75.2 | 47.0 |
| **Fn MtrTD** | 0.0 | 0.0 |
| **Fn BldTD** | 0.0 | 0.0 |
| **Fn Frict** | 0.0 | 0.0 |

### AIRFLOWS

| | Cooling | Heating |
|---|---|---|
| **Vent** | 0 | 0 |
| **Infil** | 45 | 45 |
| **Supply** | 997 | 0 |
| **MinStop/Rh** | 0 | 0 |
| **Return** | 1,042 | 0 |
| **Exhaust** | 45 | 45 |
| **Rm Exh** | 0 | 0 |
| **Auxil** | 0 | 0 |

### ENGINEERING CKS

| | Cooling | Heating |
|---|---|---|
| **% OA** | 0.0 | 0.0 |
| **cfm/ft²** | 1.30 | 0.00 |
| **cfm/ton** | 612.98 | |
| **ft²/ton** | 472.13 | |
| **Btu/hr·ft²** | 25.42 | -12.64 |
| **No. People** | 1 | |

### COOLING COIL SELECTION

| | Total Capacity ton | Total Capacity MBh | Sens Cap. MBh | Coil Airflow cfm | Enter DB/WB/HR °F | Enter DB/WB/HR °F | Enter DB/WB/HR gr/lb | Leave DB/WB/HR °F | Leave DB/WB/HR °F | Leave DB/WB/HR gr/lb |
|---|---|---|---|---|---|---|---|---|---|---|
| **Main Clg** | 1.6 | 19.5 | 18.0 | 997 | 75.2 | 62.7 | 65.1 | 59.0 | 56.2 | 63.0 |
| **Aux Clg** | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| **Opt Vent** | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ***Total*** | 1.6 | 19.5 | | | | | | | | |

### AREAS

| | Gross Total ft² | Glass ft² | Glass (%) |
|---|---|---|---|
| **Floor** | 768 | | |
| **Part** | 200 | | |
| **ExFlr** | 0 | | |
| **Roof** | 100 | 0 | 0 |
| **Wall** | 396 | 283 | 71 |

### HEATING COIL SELECTION

| | Capacity MBh | Coil Airflow cfm | Ent °F | Lvg °F |
|---|---|---|---|---|
| **Main Htg** | -9.7 | 0 | 0.0 | 0.0 |
| **Aux Htg** | 0.0 | 0 | 0.0 | 0.0 |
| **Preheat** | 0.0 | 0 | 0.0 | 0.0 |
| **Humidif** | 0.0 | 0 | 0.0 | 0.0 |
| **Opt Vent** | 0.0 | 0 | 0.0 | 0.0 |
| ***Total*** | -9.7 | | | |

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# Room Checksums

By DFG

## Guest Suite

### COOLING COIL PEAK

Peaked at Time: Mo/Hr: 8 / 17
Outside Air: OADB/WB/HR: 89 / 76 / 116

| | Space Sens. + Lat. Btu/h | Plenum Sens. + Lat Btu/h | Net Total Btu/h | Percent Of Total (%) |
|---|---|---|---|---|
| **Envelope Loads** | | | | |
| Skylite Solar | 0 | 0 | 0 | 0 |
| Skylite Cond | 0 | 0 | 0 | 0 |
| Roof Cond | 0 | 974 | 974 | 9 |
| Glass Solar | 1,154 | 0 | 1,154 | 10 |
| Glass Cond | 1,913 | 0 | 1,913 | 17 |
| Wall Cond | 3,652 | 1,154 | 4,806 | 43 |
| Partition | 373 | | 373 | 3 |
| Exposed Floor | 0 | | 0 | 0 |
| Infiltration | 1,090 | | 1,090 | 10 |
| *Sub Total* ==> | 8,181 | 2,128 | 10,309 | 93 |
| **Internal Loads** | | | | |
| Lights | 341 | 0 | 341 | 3 |
| People | 500 | | 500 | 5 |
| Misc | 0 | 0 | 0 | 0 |
| *Sub Total* ==> | 841 | 0 | 841 | 8 |
| **Ceiling Load** | 372 | -372 | 0 | 0 |
| **Ventilation Load** | 0 | 0 | 0 | 0 |
| **Dehumid. Ov Sizing** | | | 0 | 0 |
| **Ov/Undr Sizing** | 0 | | 0 | 0 |
| **Exhaust Heat** | | -76 | -76 | -1 |
| **Sup. Fan Heat** | | | 0 | 0 |
| **Ret. Fan Heat** | | 0 | 0 | 0 |
| **Duct Heat Pkup** | | 0 | 0 | 0 |
| **Reheat at Design** | | | 0 | 0 |
| ***Grand Total ==>*** | 9,394 | 1,680 | 11,074 | 100.00 |

### CLG SPACE PEAK

Mo/Hr: 8 / 17
OADB: 89

| | Space Sensible Btu/h | Percent Of Total (%) |
|---|---|---|
| **Envelope Loads** | | |
| Skylite Solar | 0 | 0 |
| Skylite Cond | 0 | 0 |
| Roof Cond | 0 | 0 |
| Glass Solar | 1,154 | 14 |
| Glass Cond | 1,913 | 23 |
| Wall Cond | 3,652 | 44 |
| Partition | 373 | 4 |
| Exposed Floor | 0 | 0 |
| Infiltration | 331 | 4 |
| *Sub Total* ==> | 7,422 | 89 |
| **Internal Loads** | | |
| Lights | 341 | 4 |
| People | 250 | 3 |
| Misc | 0 | 0 |
| *Sub Total* ==> | 591 | 7 |
| **Ceiling Load** | 372 | 4 |
| **Ventilation Load** | 0 | 0 |
| **Ov/Undr Sizing** | 0 | 0 |
| ***Grand Total ==>*** | 8,385 | 100.00 |

### HEATING COIL PEAK

Mo/Hr: Heating Design
OADB: 47

| | Space Peak Space Sens Btu/h | Coil Peak Tot Sens Btu/h | Percent Of Total (%) |
|---|---|---|---|
| **Envelope Loads** | | | |
| Skylite Solar | 0 | 0 | 0 |
| Skylite Cond | 0 | 0 | 0 |
| Roof Cond | 0 | -173 | 2 |
| Glass Solar | 0 | 0 | 0 |
| Glass Cond | -3,147 | -3,147 | 41 |
| Wall Cond | -2,801 | -3,460 | 45 |
| Partition | -521 | -521 | 7 |
| Exposed Floor | 0 | 0 | 0 |
| Infiltration | -500 | -500 | 7 |
| *Sub Total* ==> | -6,969 | -7,802 | 102 |
| **Internal Loads** | | | |
| Lights | 0 | 0 | 0 |
| People | 0 | 0 | 0 |
| Misc | 0 | 0 | 0 |
| *Sub Total* ==> | 0 | 0 | 0 |
| **Ceiling Load** | -833 | 0 | 0 |
| **Ventilation Load** | 0 | 0 | 0 |
| **Ov/Undr Sizing** | 0 | 0 | 0 |
| **Exhaust Heat** | | 171 | -2 |
| **OA Preheat Diff.** | | 0 | 0 |
| **RA Preheat Diff.** | | 0 | 0 |
| **Additional Reheat** | | 0 | 0 |
| **System Plenum Heat** | | 0 | 0 |
| ***Grand Total ==>*** | -7,802 | -7,631 | 100.00 |

### TEMPERATURES

| | Cooling | Heating |
|---|---|---|
| **SADB** | 59.0 | 68.0 |
| **Plenum** | 78.2 | 60.8 |
| **Return** | 78.2 | 60.8 |
| **Ret/OA** | 78.2 | 47.0 |
| **Fn MtrTD** | 0.0 | 0.0 |
| **Fn BldTD** | 0.0 | 0.0 |
| **Fn Frict** | 0.0 | 0.0 |

### AIRFLOWS

| | Cooling | Heating |
|---|---|---|
| **Vent** | 0 | 0 |
| **Infil** | 21 | 21 |
| **Supply** | 470 | 0 |
| **MinStop/Rh** | 0 | 0 |
| **Return** | 492 | 0 |
| **Exhaust** | 21 | 21 |
| **Rm Exh** | 0 | 0 |
| **Auxil** | 0 | 0 |

### ENGINEERING CKS

| | Cooling | Heating |
|---|---|---|
| **% OA** | 0.0 | 0.0 |
| **cfm/ft²** | 1.29 | 0.00 |
| **cfm/ton** | 509.71 | |
| **ft²/ton** | 396.59 | |
| **Btu/hr·ft²** | 30.26 | -21.32 |
| **No. People** | 1 | |

### COOLING COIL SELECTION

| | Total Capacity ton | Total Capacity MBh | Sens Cap. MBh | Coil Airflow cfm | Enter DB/WB/HR °F | °F | gr/lb | Leave DB/WB/HR °F | °F | gr/lb |
|---|---|---|---|---|---|---|---|---|---|---|
| **Main Clg** | 0.9 | 11.1 | 10.1 | 470 | 78.2 | 63.7 | 65.1 | 59.0 | 56.0 | 62.0 |
| **Aux Clg** | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| **Opt Vent** | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ***Total*** | 0.9 | 11.1 | | | | | | | | |

### AREAS

| | Gross Total ft² | Glass ft² | Glass (%) |
|---|---|---|---|
| **Floor** | 366 | | |
| **Part** | 64 | | |
| **ExFlr** | 0 | | |
| **Roof** | 366 | 0 | 0 |
| **Wall** | 895 | 140 | 16 |

### HEATING COIL SELECTION

| | Capacity MBh | Coil Airflow cfm | Ent °F | Lvg °F |
|---|---|---|---|---|
| **Main Htg** | -7.8 | 0 | 0.0 | 0.0 |
| **Aux Htg** | 0.0 | 0 | 0.0 | 0.0 |
| **Preheat** | 0.0 | 0 | 0.0 | 0.0 |
| **Humidif** | 0.0 | 0 | 0.0 | 0.0 |
| **Opt Vent** | 0.0 | 0 | 0.0 | 0.0 |
| ***Total*** | -7.8 | | | |

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# Room Checksums

By DFG

## Hallway 2nd

### COOLING COIL PEAK

Peaked at Time: Mo/Hr: 8 / 17
Outside Air: OADB/WB/HR: 89 / 76 / 116

| | Space Sens. + Lat. Btu/h | Plenum Sens. + Lat Btu/h | Net Total Btu/h | Percent Of Total (%) |
|---|---|---|---|---|
| **Envelope Loads** | | | | |
| Skylite Solar | 0 | 0 | 0 | 0 |
| Skylite Cond | 0 | 0 | 0 | 0 |
| Roof Cond | 0 | 655 | 655 | 24 |
| Glass Solar | 0 | 0 | 0 | 0 |
| Glass Cond | 0 | 0 | 0 | 0 |
| Wall Cond | 0 | 0 | 0 | 0 |
| Partition | 524 | | 524 | 19 |
| Exposed Floor | 0 | | 0 | 0 |
| Infiltration | 730 | | 730 | 27 |
| *Sub Total* ==> | 1,254 | 655 | 1,908 | 71 |
| **Internal Loads** | | | | |
| Lights | 341 | 0 | 341 | 13 |
| People | 500 | | 500 | 18 |
| Misc | 0 | 0 | 0 | 0 |
| *Sub Total* ==> | 841 | 0 | 841 | 31 |
| **Ceiling Load** | 221 | -221 | 0 | 0 |
| **Ventilation Load** | 0 | 0 | 0 | 0 |
| **Dehumid. Ov Sizing** | | | 0 | 0 |
| **Ov/Undr Sizing** | 0 | | 0 | 0 |
| **Exhaust Heat** | | -45 | -45 | -2 |
| **Sup. Fan Heat** | | | 0 | 0 |
| **Ret. Fan Heat** | | 0 | 0 | 0 |
| **Duct Heat Pkup** | | 0 | 0 | 0 |
| **Reheat at Design** | | | 0 | 0 |
| ***Grand Total ==>*** | 2,316 | 389 | 2,704 | 100.00 |

### CLG SPACE PEAK

Mo/Hr: 8 / 16
OADB: 90

| | Space Sensible Btu/h | Percent Of Total (%) |
|---|---|---|
| **Envelope Loads** | | |
| Skylite Solar | 0 | 0 |
| Skylite Cond | 0 | 0 |
| Roof Cond | 0 | 0 |
| Glass Solar | 0 | 0 |
| Glass Cond | 0 | 0 |
| Wall Cond | 0 | 0 |
| Partition | 526 | 34 |
| Exposed Floor | 0 | 0 |
| Infiltration | 234 | 15 |
| *Sub Total* ==> | 760 | 49 |
| **Internal Loads** | | |
| Lights | 341 | 22 |
| People | 250 | 16 |
| Misc | 0 | 0 |
| *Sub Total* ==> | 591 | 38 |
| **Ceiling Load** | 212 | 14 |
| **Ventilation Load** | 0 | 0 |
| **Ov/Undr Sizing** | 0 | 0 |
| ***Grand Total ==>*** | 1,563 | 100.00 |

### HEATING COIL PEAK

Mo/Hr: Heating Design
OADB: 47

| | Space Peak Space Sens Btu/h | Coil Peak Tot Sens Btu/h | Percent Of Total (%) |
|---|---|---|---|
| **Envelope Loads** | | | |
| Skylite Solar | 0 | 0 | 0 |
| Skylite Cond | 0 | 0 | 0 |
| Roof Cond | 0 | -143 | 11 |
| Glass Solar | 0 | 0 | 0 |
| Glass Cond | 0 | 0 | 0 |
| Wall Cond | 0 | 0 | 0 |
| Partition | -733 | -733 | 56 |
| Exposed Floor | 0 | 0 | 0 |
| Infiltration | -335 | -335 | 26 |
| *Sub Total* ==> | -1,068 | -1,211 | 92 |
| **Internal Loads** | | | |
| Lights | 0 | 0 | 0 |
| People | 0 | 0 | 0 |
| Misc | 0 | 0 | 0 |
| *Sub Total* ==> | 0 | 0 | 0 |
| **Ceiling Load** | -307 | 0 | 0 |
| **Ventilation Load** | 0 | 0 | 0 |
| **Ov/Undr Sizing** | 0 | 0 | 0 |
| **Exhaust Heat** | | 63 | -5 |
| **OA Preheat Diff.** | | 0 | 0 |
| **RA Preheat Diff.** | | 0 | 0 |
| **Additional Reheat** | | 0 | 0 |
| **System Plenum Heat** | | -164 | 12 |
| ***Grand Total ==>*** | -1,374 | -1,311 | 100.00 |

### TEMPERATURES

| | Cooling | Heating |
|---|---|---|
| **SADB** | 57.6 | 68.0 |
| **Plenum** | 77.8 | 64.1 |
| **Return** | 77.8 | 64.1 |
| **Ret/OA** | 77.8 | 47.0 |
| **Fn MtrTD** | 0.0 | 0.0 |
| **Fn BldTD** | 0.0 | 0.0 |
| **Fn Frict** | 0.0 | 0.0 |

### AIRFLOWS

| | Cooling | Heating |
|---|---|---|
| **Vent** | 0 | 0 |
| **Infil** | 14 | 14 |
| **Supply** | 80 | 0 |
| **MinStop/Rh** | 0 | 0 |
| **Return** | 95 | 0 |
| **Exhaust** | 14 | 14 |
| **Rm Exh** | 0 | 0 |
| **Auxil** | 0 | 0 |

### ENGINEERING CKS

| | Cooling | Heating |
|---|---|---|
| **% OA** | 0.0 | 0.0 |
| **cfm/ft²** | 0.33 | 0.00 |
| **cfm/ton** | 356.72 | |
| **ft²/ton** | 1,086.70 | |
| **Btu/hr·ft²** | 11.04 | -5.61 |
| **No. People** | 1 | |

### COOLING COIL SELECTION

| | Total Capacity ton | Total Capacity MBh | Sens Cap. MBh | Coil Airflow cfm | Enter DB/WB/HR °F | °F | gr/lb | Leave DB/WB/HR °F | °F | gr/lb |
|---|---|---|---|---|---|---|---|---|---|---|
| **Main Clg** | 0.2 | 2.7 | 2.0 | 80 | 77.8 | 63.6 | 65.1 | 57.6 | 52.1 | 49.3 |
| **Aux Clg** | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| **Opt Vent** | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ***Total*** | 0.2 | 2.7 | | | | | | | | |

### AREAS

| | Gross Total ft² | Glass ft² | Glass (%) |
|---|---|---|---|
| **Floor** | 245 | | |
| **Part** | 90 | | |
| **ExFlr** | 0 | | |
| **Roof** | 245 | 0 | 0 |
| **Wall** | 0 | 0 | 0 |

### HEATING COIL SELECTION

| | Capacity MBh | Coil Airflow cfm | Ent °F | Lvg °F |
|---|---|---|---|---|
| **Main Htg** | -1.4 | 0 | 0.0 | 0.0 |
| **Aux Htg** | 0.0 | 0 | 0.0 | 0.0 |
| **Preheat** | 0.0 | 0 | 0.0 | 0.0 |
| **Humidif** | 0.0 | 0 | 0.0 | 0.0 |
| **Opt Vent** | 0.0 | 0 | 0.0 | 0.0 |
| ***Total*** | -1.4 | | | |

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# Room Checksums

By DFG

## Kitchen

### COOLING COIL PEAK

Peaked at Time: Mo/Hr: 8 / 16
Outside Air: OADB/WB/HR: 90 / 76 / 116

| | Space Sens. + Lat. Btu/h | Plenum Sens. + Lat Btu/h | Net Total Btu/h | Percent Of Total (%) |
|---|---|---|---|---|
| **Envelope Loads** | | | | |
| Skylite Solar | 0 | 0 | 0 | 0 |
| Skylite Cond | 0 | 0 | 0 | 0 |
| Roof Cond | 0 | 625 | 625 | 9 |
| Glass Solar | 157 | 0 | 157 | 2 |
| Glass Cond | 305 | 0 | 305 | 4 |
| Wall Cond | 483 | 145 | 628 | 9 |
| Partition | 421 | | 421 | 6 |
| Exposed Floor | 0 | | 0 | 0 |
| Infiltration | 1,603 | | 1,603 | 22 |
| *Sub Total* ==> | 2,969 | 770 | 3,739 | 51 |
| **Internal Loads** | | | | |
| Lights | 341 | 0 | 341 | 5 |
| People | 500 | | 500 | 7 |
| Misc | 341 | 0 | 341 | 5 |
| *Sub Total* ==> | 1,183 | 0 | 1,183 | 16 |
| **Ceiling Load** | 363 | -363 | 0 | 0 |
| **Ventilation Load** | 0 | 0 | 2,603 | 36 |
| **Dehumid. Ov Sizing** | | | 0 | 0 |
| **Ov/Undr Sizing** | 0 | | 0 | 0 |
| **Exhaust Heat** | | -195 | -195 | -3 |
| **Sup. Fan Heat** | | | 0 | 0 |
| **Ret. Fan Heat** | | 0 | 0 | 0 |
| **Duct Heat Pkup** | | 0 | 0 | 0 |
| **Reheat at Design** | | | 0 | 0 |
| ***Grand Total ==>*** | 4,514 | 212 | 7,329 | 100.00 |

### CLG SPACE PEAK

Mo/Hr: 7 / 17
OADB: 88

| | Space Sensible Btu/h | Percent Of Total (%) |
|---|---|---|
| **Envelope Loads** | | |
| Skylite Solar | 0 | 0 |
| Skylite Cond | 0 | 0 |
| Roof Cond | 0 | 0 |
| Glass Solar | 198 | 6 |
| Glass Cond | 268 | 8 |
| Wall Cond | 579 | 18 |
| Partition | 391 | 12 |
| Exposed Floor | 0 | 0 |
| Infiltration | 443 | 14 |
| *Sub Total* ==> | 1,878 | 59 |
| **Internal Loads** | | |
| Lights | 341 | 11 |
| People | 250 | 8 |
| Misc | 341 | 11 |
| *Sub Total* ==> | 933 | 29 |
| **Ceiling Load** | 386 | 12 |
| **Ventilation Load** | 0 | 0 |
| **Ov/Undr Sizing** | 0 | 0 |
| ***Grand Total ==>*** | 3,197 | 100.00 |

### HEATING COIL PEAK

Mo/Hr: Heating Design
OADB: 47

| | Space Peak Space Sens Btu/h | Coil Peak Tot Sens Btu/h | Percent Of Total (%) |
|---|---|---|---|
| **Envelope Loads** | | | |
| Skylite Solar | 0 | 0 | 0 |
| Skylite Cond | 0 | 0 | 0 |
| Roof Cond | 0 | -164 | 4 |
| Glass Solar | 0 | 0 | 0 |
| Glass Cond | -474 | -474 | 11 |
| Wall Cond | -552 | -730 | 16 |
| Partition | -587 | -587 | 13 |
| Exposed Floor | 0 | 0 | 0 |
| Infiltration | -721 | -721 | 16 |
| *Sub Total* ==> | -2,334 | -2,676 | 60 |
| **Internal Loads** | | | |
| Lights | 0 | 0 | 0 |
| People | 0 | 0 | 0 |
| Misc | 0 | 0 | 0 |
| *Sub Total* ==> | 0 | 0 | 0 |
| **Ceiling Load** | -181 | 0 | 0 |
| **Ventilation Load** | 0 | -1,171 | 26 |
| **Ov/Undr Sizing** | -636 | -636 | 14 |
| **Exhaust Heat** | | 98 | -2 |
| **OA Preheat Diff.** | | 0 | 0 |
| **RA Preheat Diff.** | | 0 | 0 |
| **Additional Reheat** | | 0 | 0 |
| **System Plenum Heat** | | -67 | 2 |
| ***Grand Total ==>*** | -3,151 | -4,452 | 100.00 |

### TEMPERATURES

| | Cooling | Heating |
|---|---|---|
| **SADB** | 56.9 | 85.9 |
| **Plenum** | 77.2 | 66.9 |
| **Return** | 77.2 | 66.9 |
| **Ret/OA** | 81.1 | 60.6 |
| **Fn MtrTD** | 0.0 | 0.0 |
| **Fn BldTD** | 0.0 | 0.0 |
| **Fn Frict** | 0.1 | 0.0 |

### AIRFLOWS

| | Cooling | Heating |
|---|---|---|
| **Vent** | 50 | 50 |
| **Infil** | 31 | 31 |
| **Supply** | 158 | 158 |
| **MinStop/Rh** | 0 | 0 |
| **Return** | 189 | 189 |
| **Exhaust** | 81 | 81 |
| **Rm Exh** | 0 | 0 |
| **Auxil** | 0 | 0 |

### ENGINEERING CKS

| | Cooling | Heating |
|---|---|---|
| **% OA** | 31.6 | 31.6 |
| **cfm/ft²** | 0.30 | 0.30 |
| **cfm/ton** | 259.01 | |
| **ft²/ton** | 864.48 | |
| **Btu/hr·ft²** | 13.88 | -8.43 |
| **No. People** | 1 | |

### COOLING COIL SELECTION

| | Total Capacity ton | Total Capacity MBh | Sens Cap. MBh | Coil Airflow cfm | Enter DB °F | Enter WB °F | Enter HR gr/lb | Leave DB °F | Leave WB °F | Leave HR gr/lb |
|---|---|---|---|---|---|---|---|---|---|---|
| **Main Clg** | 0.6 | 7.3 | 4.2 | 158 | 81.1 | 67.8 | 81.0 | 56.7 | 53.0 | 54.1 |
| **Aux Clg** | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| **Opt Vent** | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ***Total*** | 0.6 | 7.3 | | | | | | | | |

### AREAS

| | Gross Total ft² | Glass ft² | Glass (%) |
|---|---|---|---|
| **Floor** | 528 | | |
| **Part** | 72 | | |
| **ExFlr** | 0 | | |
| **Roof** | 240 | 0 | 0 |
| **Wall** | 168 | 21 | 13 |

### HEATING COIL SELECTION

| | Capacity MBh | Coil Airflow cfm | Ent °F | Lvg °F |
|---|---|---|---|---|
| **Main Htg** | -4.5 | 158 | 60.6 | 85.9 |
| **Aux Htg** | 0.0 | 0 | 0.0 | 0.0 |
| **Preheat** | 0.0 | 0 | 0.0 | 0.0 |
| **Humidif** | 0.0 | 0 | 0.0 | 0.0 |
| **Opt Vent** | 0.0 | 0 | 0.0 | 0.0 |
| ***Total*** | -4.5 | | | |



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# Room Checksums

By DFG

## Laundry Room

### COOLING COIL PEAK

Peaked at Time: Mo/Hr: 8 / 16
Outside Air: OADB/WB/HR: 90 / 76 / 116

| | Space Sens. + Lat. Btu/h | Plenum Sens. + Lat Btu/h | Net Total Btu/h | Percent Of Total (%) |
|---|---|---|---|---|
| **Envelope Loads** | | | | |
| Skylite Solar | 0 | 0 | 0 | 0 |
| Skylite Cond | 0 | 0 | 0 | 0 |
| Roof Cond | 0 | 495 | 495 | 11 |
| Glass Solar | 123 | 0 | 123 | 3 |
| Glass Cond | 238 | 0 | 238 | 5 |
| Wall Cond | 314 | 98 | 412 | 9 |
| Partition | 1,344 | | 1,344 | 29 |
| Exposed Floor | 0 | | 0 | 0 |
| Infiltration | 908 | | 908 | 19 |
| *Sub Total* ==> | 2,927 | 592 | 3,519 | 76 |
| **Internal Loads** | | | | |
| Lights | 341 | 0 | 341 | 7 |
| People | 500 | | 500 | 11 |
| Misc | 341 | 0 | 341 | 7 |
| *Sub Total* ==> | 1,183 | 0 | 1,183 | 25 |
| **Ceiling Load** | 206 | -206 | 0 | 0 |
| **Ventilation Load** | 0 | 0 | 0 | 0 |
| **Dehumid. Ov Sizing** | | | 0 | 0 |
| **Ov/Undr Sizing** | 0 | | 0 | 0 |
| **Exhaust Heat** | | -42 | -42 | -1 |
| **Sup. Fan Heat** | | | 0 | 0 |
| **Ret. Fan Heat** | | 0 | 0 | 0 |
| **Duct Heat Pkup** | | 0 | 0 | 0 |
| **Reheat at Design** | | | 0 | 0 |
| ***Grand Total ==>*** | 4,315 | 345 | 4,660 | 100.00 |

### CLG SPACE PEAK

Mo/Hr: 8 / 16
OADB: 90

| | Space Sensible Btu/h | Percent Of Total (%) |
|---|---|---|
| **Envelope Loads** | | |
| Skylite Solar | 0 | 0 |
| Skylite Cond | 0 | 0 |
| Roof Cond | 0 | 0 |
| Glass Solar | 123 | 4 |
| Glass Cond | 238 | 7 |
| Wall Cond | 314 | 9 |
| Partition | 1,344 | 39 |
| Exposed Floor | 0 | 0 |
| Infiltration | 286 | 8 |
| *Sub Total* ==> | 2,305 | 67 |
| **Internal Loads** | | |
| Lights | 341 | 10 |
| People | 250 | 7 |
| Misc | 341 | 10 |
| *Sub Total* ==> | 933 | 27 |
| **Ceiling Load** | 206 | 6 |
| **Ventilation Load** | 0 | 0 |
| **Ov/Undr Sizing** | 0 | 0 |
| **Exhaust Heat** | | |
| **OA Preheat Diff.** | | |
| **RA Preheat Diff.** | | |
| **Additional Reheat** | | |
| **System Plenum Heat** | | |
| ***Grand Total ==>*** | 3,443 | 100.00 |

### HEATING COIL PEAK

Mo/Hr: Heating Design
OADB: 47

| | Space Peak Space Sens Btu/h | Coil Peak Tot Sens Btu/h | Percent Of Total (%) |
|---|---|---|---|
| **Envelope Loads** | | | |
| Skylite Solar | 0 | 0 | 0 |
| Skylite Cond | 0 | 0 | 0 |
| Roof Cond | 0 | -130 | 4 |
| Glass Solar | 0 | 0 | 0 |
| Glass Cond | -371 | -371 | 10 |
| Wall Cond | -359 | -479 | 13 |
| Partition | -1,874 | -1,874 | 52 |
| Exposed Floor | 0 | 0 | 0 |
| Infiltration | -408 | -408 | 11 |
| *Sub Total* ==> | -3,012 | -3,262 | 91 |
| **Internal Loads** | | | |
| Lights | 0 | 0 | 0 |
| People | 0 | 0 | 0 |
| Misc | 0 | 0 | 0 |
| *Sub Total* ==> | 0 | 0 | 0 |
| **Ceiling Load** | -103 | 0 | 0 |
| **Ventilation Load** | 0 | 0 | 0 |
| **Ov/Undr Sizing** | -278 | -278 | 8 |
| **Exhaust Heat** | | 21 | -1 |
| **OA Preheat Diff.** | | 0 | 0 |
| **RA Preheat Diff.** | | 0 | 0 |
| **Additional Reheat** | | 0 | 0 |
| **System Plenum Heat** | | -80 | 2 |
| ***Grand Total ==>*** | -3,393 | -3,599 | 100.00 |

### TEMPERATURES

| | Cooling | Heating |
|---|---|---|
| **SADB** | 56.9 | 85.9 |
| **Plenum** | 77.2 | 66.9 |
| **Return** | 77.2 | 66.9 |
| **Ret/OA** | 77.2 | 66.9 |
| **Fn MtrTD** | 0.0 | 0.0 |
| **Fn BldTD** | 0.0 | 0.0 |
| **Fn Frict** | 0.1 | 0.0 |

### AIRFLOWS

| | Cooling | Heating |
|---|---|---|
| **Vent** | 0 | 0 |
| **Infil** | 17 | 17 |
| **Supply** | 170 | 170 |
| **MinStop/Rh** | 0 | 0 |
| **Return** | 188 | 188 |
| **Exhaust** | 17 | 17 |
| **Rm Exh** | 0 | 0 |
| **Auxil** | 0 | 0 |

### ENGINEERING CKS

| | Cooling | Heating |
|---|---|---|
| **% OA** | 0.0 | 0.0 |
| **cfm/ft²** | 0.57 | 0.57 |
| **cfm/ton** | 438.72 | |
| **ft²/ton** | 769.99 | |
| **Btu/hr·ft²** | 15.58 | -12.04 |
| **No. People** | 1 | |

### COOLING COIL SELECTION

| | Total Capacity ton | Total Capacity MBh | Sens Cap. MBh | Coil Airflow cfm | Enter DB °F | Enter WB °F | Enter gr/lb | Leave DB °F | Leave WB °F | Leave gr/lb |
|---|---|---|---|---|---|---|---|---|---|---|
| **Main Clg** | 0.4 | 4.7 | 3.8 | 170 | 77.2 | 63.3 | 64.9 | 56.7 | 54.1 | 58.5 |
| **Aux Clg** | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| **Opt Vent** | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ***Total*** | 0.4 | 4.7 | | | | | | | | |

### AREAS

| | Gross Total ft² | Glass ft² | Glass (%) |
|---|---|---|---|
| **Floor** | 299 | | |
| **Part** | 230 | | |
| **ExFlr** | 0 | | |
| **Roof** | 190 | 0 | 0 |
| **Wall** | 113 | 17 | 15 |

### HEATING COIL SELECTION

| | Capacity MBh | Coil Airflow cfm | Ent °F | Lvg °F |
|---|---|---|---|---|
| **Main Htg** | -3.6 | 170 | 66.9 | 85.9 |
| **Aux Htg** | 0.0 | 0 | 0.0 | 0.0 |
| **Preheat** | 0.0 | 0 | 0.0 | 0.0 |
| **Humidif** | 0.0 | 0 | 0.0 | 0.0 |
| **Opt Vent** | 0.0 | 0 | 0.0 | 0.0 |
| ***Total*** | -3.6 | | | |

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# Room Checksums

By DFG

## Lounge 1

### COOLING COIL PEAK

Peaked at Time: Mo/Hr: 7 / 18
Outside Air: OADB/WB/HR: 87 / 74 / 108

| | Space Sens. + Lat. Btu/h | Plenum Sens. + Lat Btu/h | Net Total Btu/h | Percent Of Total (%) |
|---|---|---|---|---|
| **Envelope Loads** | | | | |
| Skylite Solar | 0 | 0 | 0 | 0 |
| Skylite Cond | 0 | 0 | 0 | 0 |
| Roof Cond | 0 | 67 | 67 | 1 |
| Glass Solar | 1,317 | 0 | 1,317 | 20 |
| Glass Cond | 399 | 0 | 399 | 6 |
| Wall Cond | 1,266 | 414 | 1,680 | 26 |
| Partition | 656 | | 656 | 10 |
| Exposed Floor | 0 | | 0 | 0 |
| Infiltration | 1,571 | | 1,571 | 24 |
| *Sub Total* ==> | 5,209 | 481 | 5,690 | 88 |
| **Internal Loads** | | | | |
| Lights | 341 | 0 | 341 | 5 |
| People | 500 | | 500 | 8 |
| Misc | 0 | 0 | 0 | 0 |
| *Sub Total* ==> | 841 | 0 | 841 | 13 |
| **Ceiling Load** | 224 | -224 | 0 | 0 |
| **Ventilation Load** | 0 | 0 | 0 | 0 |
| **Dehumid. Ov Sizing** | | | 0 | 0 |
| **Ov/Undr Sizing** | 0 | | 0 | 0 |
| **Exhaust Heat** | | -46 | -46 | -1 |
| **Sup. Fan Heat** | | | 0 | 0 |
| **Ret. Fan Heat** | | 0 | 0 | 0 |
| **Duct Heat Pkup** | | 0 | 0 | 0 |
| **Reheat at Design** | | | 0 | 0 |
| ***Grand Total ==>*** | 6,274 | 211 | 6,485 | 100.00 |

### CLG SPACE PEAK

Mo/Hr: 7 / 18
OADB: 87

| | Space Sensible Btu/h | Percent Of Total (%) |
|---|---|---|
| **Envelope Loads** | | |
| Skylite Solar | 0 | 0 |
| Skylite Cond | 0 | 0 |
| Roof Cond | 0 | 0 |
| Glass Solar | 1,317 | 27 |
| Glass Cond | 399 | 8 |
| Wall Cond | 1,266 | 26 |
| Partition | 656 | 13 |
| Exposed Floor | 0 | 0 |
| Infiltration | 473 | 10 |
| *Sub Total* ==> | 4,111 | 83 |
| **Internal Loads** | | |
| Lights | 341 | 7 |
| People | 250 | 5 |
| Misc | 0 | 0 |
| *Sub Total* ==> | 591 | 12 |
| **Ceiling Load** | 224 | 5 |
| **Ventilation Load** | 0 | 0 |
| **Ov/Undr Sizing** | 0 | 0 |
| ***Grand Total ==>*** | 4,927 | 100.00 |

### HEATING COIL PEAK

Mo/Hr: Heating Design
OADB: 47

| | Space Peak Space Sens Btu/h | Coil Peak Tot Sens Btu/h | Percent Of Total (%) |
|---|---|---|---|
| **Envelope Loads** | | | |
| Skylite Solar | 0 | 0 | 0 |
| Skylite Cond | 0 | 0 | 0 |
| Roof Cond | 0 | -17 | 0 |
| Glass Solar | 0 | 0 | 0 |
| Glass Cond | -773 | -773 | 20 |
| Wall Cond | -908 | -1,205 | 30 |
| Partition | -1,027 | -1,027 | 26 |
| Exposed Floor | 0 | 0 | 0 |
| Infiltration | -842 | -842 | 21 |
| *Sub Total* ==> | -3,550 | -3,864 | 98 |
| **Internal Loads** | | | |
| Lights | 0 | 0 | 0 |
| People | 0 | 0 | 0 |
| Misc | 0 | 0 | 0 |
| *Sub Total* ==> | 0 | 0 | 0 |
| **Ceiling Load** | -162 | 0 | 0 |
| **Ventilation Load** | 0 | 0 | 0 |
| **Ov/Undr Sizing** | 0 | 0 | 0 |
| **Exhaust Heat** | | 33 | -1 |
| **OA Preheat Diff.** | | 0 | 0 |
| **RA Preheat Diff.** | | 0 | 0 |
| **Additional Reheat** | | 0 | 0 |
| **System Plenum Heat** | | -131 | 3 |
| ***Grand Total ==>*** | -3,712 | -3,962 | 100.00 |

### TEMPERATURES

| | Cooling | Heating |
|---|---|---|
| **SADB** | 58.7 | 80.3 |
| **Plenum** | 76.2 | 67.2 |
| **Return** | 76.2 | 67.2 |
| **Ret/OA** | 76.2 | 67.2 |
| **Fn MtrTD** | 0.0 | 0.0 |
| **Fn BldTD** | 0.0 | 0.0 |
| **Fn Frict** | 0.0 | 0.0 |

### AIRFLOWS

| | Cooling | Heating |
|---|---|---|
| **Vent** | 0 | 0 |
| **Infil** | 36 | 36 |
| **Supply** | 271 | 271 |
| **MinStop/Rh** | 0 | 0 |
| **Return** | 307 | 307 |
| **Exhaust** | 36 | 36 |
| **Rm Exh** | 0 | 0 |
| **Auxil** | 0 | 0 |

### ENGINEERING CKS

| | Cooling | Heating |
|---|---|---|
| **% OA** | 0.0 | 0.0 |
| **cfm/ft²** | 0.44 | 0.44 |
| **cfm/ton** | 500.79 | |
| **ft²/ton** | 1,140.55 | |
| **Btu/hr·ft²** | 10.52 | -6.43 |
| **No. People** | 1 | |

### COOLING COIL SELECTION

| | Total Capacity ton | Total Capacity MBh | Sens Cap. MBh | Coil Airflow cfm | Enter DB °F | Enter WB °F | Enter HR gr/lb | Leave DB °F | Leave WB °F | Leave HR gr/lb |
|---|---|---|---|---|---|---|---|---|---|---|
| **Main Clg** | 0.5 | 6.5 | 5.1 | 271 | 76.2 | 63.0 | 64.9 | 58.7 | 55.0 | 58.6 |
| **Aux Clg** | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| **Opt Vent** | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ***Total*** | 0.5 | 6.5 | | | | | | | | |

### AREAS

| | Gross Total ft² | Glass ft² | Glass (%) |
|---|---|---|---|
| **Floor** | 616 | | |
| **Part** | 126 | | |
| **ExFlr** | 0 | | |
| **Roof** | 25 | 0 | 0 |
| **Wall** | 276 | 35 | 13 |

### HEATING COIL SELECTION

| | Capacity MBh | Coil Airflow cfm | Ent °F | Lvg °F |
|---|---|---|---|---|
| **Main Htg** | -4.0 | 271 | 67.2 | 80.3 |
| **Aux Htg** | 0.0 | 0 | 0.0 | 0.0 |
| **Preheat** | 0.0 | 0 | 0.0 | 0.0 |
| **Humidif** | 0.0 | 0 | 0.0 | 0.0 |
| **Opt Vent** | 0.0 | 0 | 0.0 | 0.0 |
| ***Total*** | -4.0 | | | |



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# Room Checksums

By DFG

## Lounge 2

### COOLING COIL PEAK

Peaked at Time: Mo/Hr: 8 / 9
Outside Air: OADB/WB/HR: 82 / 73 / 107

| | Space Sens. + Lat. Btu/h | Plenum Sens. + Lat Btu/h | Net Total Btu/h | Percent Of Total (%) |
|---|---|---|---|---|
| **Envelope Loads** | | | | |
| Skylite Solar | 0 | 0 | 0 | 0 |
| Skylite Cond | 0 | 0 | 0 | 0 |
| Roof Cond | 0 | -2 | -2 | 0 |
| Glass Solar | 4,145 | 0 | 4,145 | 60 |
| Glass Cond | 568 | 0 | 568 | 8 |
| Wall Cond | 161 | 96 | 257 | 4 |
| Partition | 198 | | 198 | 3 |
| Exposed Floor | 0 | | 0 | 0 |
| Infiltration | 887 | | 887 | 13 |
| *Sub Total* ==> | 5,958 | 94 | 6,052 | 88 |
| **Internal Loads** | | | | |
| Lights | 341 | 0 | 341 | 5 |
| People | 500 | | 500 | 7 |
| Misc | 0 | 0 | 0 | 0 |
| *Sub Total* ==> | 841 | 0 | 841 | 12 |
| **Ceiling Load** | 43 | -43 | 0 | 0 |
| **Ventilation Load** | 0 | 0 | 0 | 0 |
| **Dehumid. Ov Sizing** | | | 0 | 0 |
| **Ov/Undr Sizing** | 0 | | 0 | 0 |
| **Exhaust Heat** | | -9 | -9 | 0 |
| **Sup. Fan Heat** | | | 0 | 0 |
| **Ret. Fan Heat** | | 0 | 0 | 0 |
| **Duct Heat Pkup** | | 0 | 0 | 0 |
| **Reheat at Design** | | | 0 | 0 |
| ***Grand Total ==>*** | 6,843 | 42 | 6,885 | 100.00 |

### CLG SPACE PEAK

Mo/Hr: 8 / 9
OADB: 82

| | Space Sensible Btu/h | Percent Of Total (%) |
|---|---|---|
| **Envelope Loads** | | |
| Skylite Solar | 0 | 0 |
| Skylite Cond | 0 | 0 |
| Roof Cond | 0 | 0 |
| Glass Solar | 4,145 | 70 |
| Glass Cond | 568 | 10 |
| Wall Cond | 161 | 3 |
| Partition | 198 | 3 |
| Exposed Floor | 0 | 0 |
| Infiltration | 188 | 3 |
| *Sub Total* ==> | 5,259 | 89 |
| **Internal Loads** | | |
| Lights | 341 | 6 |
| People | 250 | 4 |
| Misc | 0 | 0 |
| *Sub Total* ==> | 591 | 10 |
| **Ceiling Load** | 43 | 1 |
| **Ventilation Load** | 0 | 0 |
| **Ov/Undr Sizing** | 0 | 0 |
| ***Grand Total ==>*** | 5,894 | 100.00 |

### HEATING COIL PEAK

Mo/Hr: Heating Design
OADB: 47

| | Space Peak Space Sens Btu/h | Coil Peak Tot Sens Btu/h | Percent Of Total (%) |
|---|---|---|---|
| **Envelope Loads** | | | |
| Skylite Solar | 0 | 0 | 0 |
| Skylite Cond | 0 | 0 | 0 |
| Roof Cond | 0 | -238 | 6 |
| Glass Solar | 0 | 0 | 0 |
| Glass Cond | -1,831 | -1,831 | 47 |
| Wall Cond | -350 | -527 | 14 |
| Partition | -733 | -733 | 19 |
| Exposed Floor | 0 | 0 | 0 |
| Infiltration | -556 | -556 | 14 |
| *Sub Total* ==> | -3,471 | -3,885 | 100 |
| **Internal Loads** | | | |
| Lights | 0 | 0 | 0 |
| People | 0 | 0 | 0 |
| Misc | 0 | 0 | 0 |
| *Sub Total* ==> | 0 | 0 | 0 |
| **Ceiling Load** | -510 | 0 | 0 |
| **Ventilation Load** | 0 | 0 | 0 |
| **Ov/Undr Sizing** | 0 | 0 | 0 |
| **Exhaust Heat** | | 105 | -3 |
| **OA Preheat Diff.** | | 0 | 0 |
| **RA Preheat Diff.** | | 0 | 0 |
| **Additional Reheat** | | 0 | 0 |
| **System Plenum Heat** | | -95 | 2 |
| ***Grand Total ==>*** | -3,980 | -3,876 | 100.00 |

### TEMPERATURES

| | Cooling | Heating |
|---|---|---|
| **SADB** | 57.6 | 68.0 |
| **Plenum** | 75.3 | 64.1 |
| **Return** | 75.3 | 64.1 |
| **Ret/OA** | 75.3 | 47.0 |
| **Fn MtrTD** | 0.0 | 0.0 |
| **Fn BldTD** | 0.0 | 0.0 |
| **Fn Frict** | 0.0 | 0.0 |

### AIRFLOWS

| | Cooling | Heating |
|---|---|---|
| **Vent** | 0 | 0 |
| **Infil** | 24 | 24 |
| **Supply** | 303 | 0 |
| **MinStop/Rh** | 0 | 0 |
| **Return** | 327 | 0 |
| **Exhaust** | 24 | 24 |
| **Rm Exh** | 0 | 0 |
| **Auxil** | 0 | 0 |

### ENGINEERING CKS

| | Cooling | Heating |
|---|---|---|
| **% OA** | 0.0 | 0.0 |
| **cfm/ft²** | 0.75 | 0.00 |
| **cfm/ton** | 528.49 | |
| **ft²/ton** | 709.39 | |
| **Btu/hr·ft²** | 16.92 | -9.78 |
| **No. People** | 1 | |

### COOLING COIL SELECTION

| | Total Capacity ton | Total Capacity MBh | Sens Cap. MBh | Coil Airflow cfm | Enter DB °F | Enter WB °F | Enter gr/lb | Leave DB °F | Leave WB °F | Leave gr/lb |
|---|---|---|---|---|---|---|---|---|---|---|
| **Main Clg** | 0.6 | 6.9 | 5.9 | 303 | 75.3 | 62.7 | 65.1 | 57.6 | 55.1 | 60.9 |
| **Aux Clg** | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| **Opt Vent** | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ***Total*** | 0.6 | 6.9 | | | | | | | | |

### AREAS

| | Gross Total ft² | Glass ft² | Glass (%) |
|---|---|---|---|
| **Floor** | 407 | | |
| **Part** | 90 | | |
| **ExFlr** | 0 | | |
| **Roof** | 407 | 0 | 0 |
| **Wall** | 194 | 82 | 42 |

### HEATING COIL SELECTION

| | Capacity MBh | Coil Airflow cfm | Ent °F | Lvg °F |
|---|---|---|---|---|
| **Main Htg** | -4.0 | 0 | 0.0 | 0.0 |
| **Aux Htg** | 0.0 | 0 | 0.0 | 0.0 |
| **Preheat** | 0.0 | 0 | 0.0 | 0.0 |
| **Humidif** | 0.0 | 0 | 0.0 | 0.0 |
| **Opt Vent** | 0.0 | 0 | 0.0 | 0.0 |
| ***Total*** | -4.0 | | | |



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# Room Checksums

By DFG

**Media**

## COOLING COIL PEAK

Peaked at Time: Mo/Hr: 9 / 18
Outside Air: OADB/WB/HR: 86 / 74 / 108

| | Space Sens. + Lat. Btu/h | Plenum Sens. + Lat Btu/h | Net Total Btu/h | Percent Of Total (%) |
|---|---|---|---|---|
| **Envelope Loads** | | | | |
| Skylite Solar | 0 | 0 | 0 | 0 |
| Skylite Cond | 0 | 0 | 0 | 0 |
| Roof Cond | 0 | 60 | 60 | 1 |
| Glass Solar | 2,131 | 0 | 2,131 | 21 |
| Glass Cond | 976 | 0 | 976 | 10 |
| Wall Cond | 3,380 | 1,164 | 4,544 | 45 |
| Partition | 446 | | 446 | 4 |
| Exposed Floor | 0 | | 0 | 0 |
| Infiltration | 1,101 | | 1,101 | 11 |
| *Sub Total* ==> | 8,035 | 1,224 | 9,259 | 92 |
| **Internal Loads** | | | | |
| Lights | 341 | 0 | 341 | 3 |
| People | 500 | | 500 | 5 |
| Misc | 0 | 0 | 0 | 0 |
| *Sub Total* ==> | 841 | 0 | 841 | 8 |
| **Ceiling Load** | 198 | -198 | 0 | 0 |
| **Ventilation Load** | 0 | 0 | 0 | 0 |
| **Dehumid. Ov Sizing** | | | 0 | 0 |
| **Ov/Undr Sizing** | 0 | | 0 | 0 |
| **Exhaust Heat** | | -41 | -41 | 0 |
| **Sup. Fan Heat** | | | 0 | 0 |
| **Ret. Fan Heat** | | 0 | 0 | 0 |
| **Duct Heat Pkup** | | 0 | 0 | 0 |
| **Reheat at Design** | | | 0 | 0 |
| ***Grand Total ==>*** | 9,075 | 984 | 10,059 | 100.00 |

## CLG SPACE PEAK

Mo/Hr: 9 / 18
OADB: 86

| | Space Sensible Btu/h | Percent Of Total (%) |
|---|---|---|
| **Envelope Loads** | | |
| Skylite Solar | 0 | 0 |
| Skylite Cond | 0 | 0 |
| Roof Cond | 0 | 0 |
| Glass Solar | 2,131 | 27 |
| Glass Cond | 976 | 12 |
| Wall Cond | 3,380 | 42 |
| Partition | 446 | 6 |
| Exposed Floor | 0 | 0 |
| Infiltration | 318 | 4 |
| *Sub Total* ==> | 7,252 | 90 |
| **Internal Loads** | | |
| Lights | 341 | 4 |
| People | 250 | 3 |
| Misc | 0 | 0 |
| *Sub Total* ==> | 591 | 7 |
| **Ceiling Load** | 198 | 2 |
| **Ventilation Load** | 0 | 0 |
| **Ov/Undr Sizing** | 0 | 0 |
| **Exhaust Heat** | | |
| **OA Preheat Diff.** | | |
| **RA Preheat Diff.** | | |
| **Additional Reheat** | | |
| **System Plenum Heat** | | |
| ***Grand Total ==>*** | 8,042 | 100.00 |

## HEATING COIL PEAK

Mo/Hr: Heating Design
OADB: 47

| | Space Peak Space Sens Btu/h | Coil Peak Tot Sens Btu/h | Percent Of Total (%) |
|---|---|---|---|
| **Envelope Loads** | | | |
| Skylite Solar | 0 | 0 | 0 |
| Skylite Cond | 0 | 0 | 0 |
| Roof Cond | 0 | -17 | 0 |
| Glass Solar | 0 | 0 | 0 |
| Glass Cond | -2,010 | -2,010 | 31 |
| Wall Cond | -1,806 | -2,425 | 38 |
| Partition | -733 | -733 | 11 |
| Exposed Floor | 0 | 0 | 0 |
| Infiltration | -601 | -601 | 9 |
| *Sub Total* ==> | -5,151 | -5,787 | 89 |
| **Internal Loads** | | | |
| Lights | 0 | 0 | 0 |
| People | 0 | 0 | 0 |
| Misc | 0 | 0 | 0 |
| *Sub Total* ==> | 0 | 0 | 0 |
| **Ceiling Load** | -116 | 0 | 0 |
| **Ventilation Load** | 0 | 0 | 0 |
| **Ov/Undr Sizing** | -792 | -792 | 12 |
| **Exhaust Heat** | | 24 | 0 |
| **OA Preheat Diff.** | | 0 | 0 |
| **RA Preheat Diff.** | | 0 | 0 |
| **Additional Reheat** | | 0 | 0 |
| **System Plenum Heat** | | 89 | -1 |
| ***Grand Total ==>*** | -6,058 | -6,467 | 100.00 |

## TEMPERATURES

| | Cooling | Heating |
|---|---|---|
| **SADB** | 58.7 | 80.3 |
| **Plenum** | 76.4 | 67.2 |
| **Return** | 76.4 | 67.2 |
| **Ret/OA** | 76.4 | 67.2 |
| **Fn MtrTD** | 0.0 | 0.0 |
| **Fn BldTD** | 0.0 | 0.0 |
| **Fn Frict** | 0.0 | 0.0 |

## AIRFLOWS

| | Cooling | Heating |
|---|---|---|
| **Vent** | 0 | 0 |
| **Infil** | 26 | 26 |
| **Supply** | 442 | 442 |
| **MinStop/Rh** | 0 | 0 |
| **Return** | 467 | 467 |
| **Exhaust** | 26 | 26 |
| **Rm Exh** | 0 | 0 |
| **Auxil** | 0 | 0 |

## ENGINEERING CKS

| | Cooling | Heating |
|---|---|---|
| **% OA** | 0.0 | 0.0 |
| **cfm/ft²** | 1.00 | 1.00 |
| **cfm/ton** | 526.99 | |
| **ft²/ton** | 524.89 | |
| **Btu/hr·ft²** | 22.86 | -14.70 |
| **No. People** | 1 | |

## COOLING COIL SELECTION

| | Total Capacity ton | Total Capacity MBh | Sens Cap. MBh | Coil Airflow cfm | Enter DB °F | Enter WB °F | Enter HR gr/lb | Leave DB °F | Leave WB °F | Leave HR gr/lb |
|---|---|---|---|---|---|---|---|---|---|---|
| **Main Clg** | 0.8 | 10.1 | 9.0 | 442 | 76.4 | 63.1 | 64.9 | 58.7 | 55.5 | 60.7 |
| **Aux Clg** | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| **Opt Vent** | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ***Total*** | 0.8 | 10.1 | | | | | | | | |

## AREAS

| | Gross Total ft² | Glass ft² | Glass (%) |
|---|---|---|---|
| **Floor** | 440 | | |
| **Part** | 90 | | |
| **ExFlr** | 0 | | |
| **Roof** | 25 | 0 | 0 |
| **Wall** | 576 | 90 | 16 |

## HEATING COIL SELECTION

| | Capacity MBh | Coil Airflow cfm | Ent °F | Lvg °F |
|---|---|---|---|---|
| **Main Htg** | -6.5 | 442 | 67.2 | 80.3 |
| **Aux Htg** | 0.0 | 0 | 0.0 | 0.0 |
| **Preheat** | 0.0 | 0 | 0.0 | 0.0 |
| **Humidif** | 0.0 | 0 | 0.0 | 0.0 |
| **Opt Vent** | 0.0 | 0 | 0.0 | 0.0 |
| ***Total*** | -6.5 | | | |



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# Room Checksums

By DFG

**Open to below**

## COOLING COIL PEAK

Peaked at Time: Mo/Hr: 8 / 17
Outside Air: OADB/WB/HR: 89 / 76 / 116

| | Space Sens. + Lat. Btu/h | Plenum Sens. + Lat Btu/h | Net Total Btu/h | Percent Of Total (%) |
|---|---|---|---|---|
| **Envelope Loads** | | | | |
| Skylite Solar | 0 | 0 | 0 | 0 |
| Skylite Cond | 0 | 0 | 0 | 0 |
| Roof Cond | 0 | 682 | 682 | 6 |
| Glass Solar | 6,901 | 0 | 6,901 | 58 |
| Glass Cond | 1,863 | 0 | 1,863 | 16 |
| Wall Cond | 142 | 263 | 405 | 3 |
| Partition | 582 | | 582 | 5 |
| Exposed Floor | 0 | | 0 | 0 |
| Infiltration | 760 | | 760 | 6 |
| *Sub Total* ==> | 10,248 | 945 | 11,193 | 93 |
| **Internal Loads** | | | | |
| Lights | 341 | 0 | 341 | 3 |
| People | 500 | | 500 | 4 |
| Misc | 0 | 0 | 0 | 0 |
| *Sub Total* ==> | 841 | 0 | 841 | 7 |
| **Ceiling Load** | 230 | -230 | 0 | 0 |
| **Ventilation Load** | 0 | 0 | 0 | 0 |
| **Dehumid. Ov Sizing** | | | 0 | 0 |
| **Ov/Undr Sizing** | 0 | | 0 | 0 |
| **Exhaust Heat** | | -47 | -47 | 0 |
| **Sup. Fan Heat** | | | 0 | 0 |
| **Ret. Fan Heat** | | 0 | 0 | 0 |
| **Duct Heat Pkup** | | 0 | 0 | 0 |
| **Reheat at Design** | | | 0 | 0 |
| ***Grand Total* ==>** | 11,319 | 668 | 11,987 | 100.00 |

## CLG SPACE PEAK

Mo/Hr: 8 / 17
OADB: 89

| | Space Sensible Btu/h | Percent Of Total (%) |
|---|---|---|
| **Envelope Loads** | | |
| Skylite Solar | 0 | 0 |
| Skylite Cond | 0 | 0 |
| Roof Cond | 0 | 0 |
| Glass Solar | 6,901 | 65 |
| Glass Cond | 1,863 | 18 |
| Wall Cond | 142 | 1 |
| Partition | 582 | 6 |
| Exposed Floor | 0 | 0 |
| Infiltration | 231 | 2 |
| *Sub Total* ==> | 9,719 | 92 |
| **Internal Loads** | | |
| Lights | 341 | 3 |
| People | 250 | 2 |
| Misc | 0 | 0 |
| *Sub Total* ==> | 591 | 6 |
| **Ceiling Load** | 230 | 2 |
| **Ventilation Load** | 0 | 0 |
| **Ov/Undr Sizing** | 0 | 0 |
| ***Grand Total* ==>** | 10,540 | 100.00 |

## HEATING COIL PEAK

Mo/Hr: Heating Design
OADB: 47

| | Space Peak Space Sens Btu/h | Coil Peak Tot Sens Btu/h | Percent Of Total (%) |
|---|---|---|---|
| **Envelope Loads** | | | |
| Skylite Solar | 0 | 0 | 0 |
| Skylite Cond | 0 | 0 | 0 |
| Roof Cond | 0 | -149 | 3 |
| Glass Solar | 0 | 0 | 0 |
| Glass Cond | -3,065 | -3,065 | 67 |
| Wall Cond | -111 | -296 | 6 |
| Partition | -815 | -815 | 18 |
| Exposed Floor | 0 | 0 | 0 |
| Infiltration | -348 | -348 | 8 |
| *Sub Total* ==> | -4,338 | -4,673 | 102 |
| **Internal Loads** | | | |
| Lights | 0 | 0 | 0 |
| People | 0 | 0 | 0 |
| Misc | 0 | 0 | 0 |
| *Sub Total* ==> | 0 | 0 | 0 |
| **Ceiling Load** | -319 | 0 | 0 |
| **Ventilation Load** | 0 | 0 | 0 |
| **Ov/Undr Sizing** | 0 | 0 | 0 |
| **Exhaust Heat** | | 66 | -1 |
| **OA Preheat Diff.** | | 0 | 0 |
| **RA Preheat Diff.** | | 0 | 0 |
| **Additional Reheat** | | 0 | 0 |
| **System Plenum Heat** | | 15 | 0 |
| ***Grand Total* ==>** | -4,657 | -4,592 | 100.00 |

## TEMPERATURES

| | Cooling | Heating |
|---|---|---|
| **SADB** | 57.6 | 68.0 |
| **Plenum** | 77.8 | 64.1 |
| **Return** | 77.8 | 64.1 |
| **Ret/OA** | 77.8 | 47.0 |
| **Fn MtrTD** | 0.0 | 0.0 |
| **Fn BldTD** | 0.0 | 0.0 |
| **Fn Frict** | 0.0 | 0.0 |

## AIRFLOWS

| | Cooling | Heating |
|---|---|---|
| **Vent** | 0 | 0 |
| **Infil** | 15 | 15 |
| **Supply** | 542 | 0 |
| **MinStop/Rh** | 0 | 0 |
| **Return** | 557 | 0 |
| **Exhaust** | 15 | 15 |
| **Rm Exh** | 0 | 0 |
| **Auxil** | 0 | 0 |

## ENGINEERING CKS

| | Cooling | Heating |
|---|---|---|
| **% OA** | 0.0 | 0.0 |
| **cfm/ft²** | 2.13 | 0.00 |
| **cfm/ton** | 542.81 | |
| **ft²/ton** | 255.28 | |
| **Btu/hr·ft²** | 47.01 | -18.26 |
| **No. People** | 1 | |

## COOLING COIL SELECTION

| | Total Capacity ton | Total Capacity MBh | Sens Cap. MBh | Coil Airflow cfm | Enter DB/WB/HR °F | °F | gr/lb | Leave DB/WB/HR °F | °F | gr/lb |
|---|---|---|---|---|---|---|---|---|---|---|
| **Main Clg** | 1.0 | 12.0 | 11.2 | 542 | 77.8 | 63.6 | 65.1 | 57.6 | 56.1 | 65.1 |
| **Aux Clg** | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| **Opt Vent** | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ***Total*** | 1.0 | 12.0 | | | | | | | | |

## AREAS

| | Gross Total ft² | Glass ft² | Glass (%) |
|---|---|---|---|
| **Floor** | 255 | | |
| **Part** | 100 | | |
| **ExFlr** | 0 | | |
| **Roof** | 255 | 0 | 0 |
| **Wall** | 204 | 137 | 67 |

## HEATING COIL SELECTION

| | Capacity MBh | Coil Airflow cfm | Ent °F | Lvg °F |
|---|---|---|---|---|
| **Main Htg** | -4.7 | 0 | 0.0 | 0.0 |
| **Aux Htg** | 0.0 | 0 | 0.0 | 0.0 |
| **Preheat** | 0.0 | 0 | 0.0 | 0.0 |
| **Humidif** | 0.0 | 0 | 0.0 | 0.0 |
| **Opt Vent** | 0.0 | 0 | 0.0 | 0.0 |
| ***Total*** | -4.7 | | | |

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**Heat Load.pdf**

# Room Checksums

By DFG

**Primary MAster Room Bath & WC**

## COOLING COIL PEAK

Peaked at Time: Mo/Hr: 9 / 17
Outside Air: OADB/WB/HR: 87 / 75 / 110

| | Space Sens. + Lat. Btu/h | Plenum Sens. + Lat Btu/h | Net Total Btu/h | Percent Of Total (%) |
|---|---|---|---|---|
| **Envelope Loads** | | | | |
| Skylite Solar | 0 | 0 | 0 | 0 |
| Skylite Cond | 0 | 0 | 0 | 0 |
| Roof Cond | 0 | 2,741 | 2,741 | 12 |
| Glass Solar | 3,992 | 0 | 3,992 | 18 |
| Glass Cond | 2,964 | 0 | 2,964 | 13 |
| Wall Cond | 6,492 | 2,179 | 8,670 | 39 |
| Partition | 466 | | 466 | 2 |
| Exposed Floor | 0 | | 0 | 0 |
| Infiltration | 2,966 | | 2,966 | 13 |
| *Sub Total* ==> | 16,881 | 4,919 | 21,800 | 97 |
| **Internal Loads** | | | | |
| Lights | 341 | 0 | 341 | 2 |
| People | 500 | | 500 | 2 |
| Misc | 0 | 0 | 0 | 0 |
| *Sub Total* ==> | 841 | 0 | 841 | 4 |
| **Ceiling Load** | 1,223 | -1,223 | 0 | 0 |
| **Ventilation Load** | 0 | 0 | 0 | 0 |
| **Dehumid. Ov Sizing** | | | 0 | 0 |
| **Ov/Undr Sizing** | 0 | | 0 | 0 |
| **Exhaust Heat** | | -251 | -251 | -1 |
| **Sup. Fan Heat** | | | 0 | 0 |
| **Ret. Fan Heat** | | 0 | 0 | 0 |
| **Duct Heat Pkup** | | 0 | 0 | 0 |
| **Reheat at Design** | | | 0 | 0 |
| ***Grand Total ==>*** | 18,944 | 3,446 | 22,390 | 100.00 |

## CLG SPACE PEAK

Mo/Hr: 9 / 17
OADB: 87

| | Space Sensible Btu/h | Percent Of Total (%) |
|---|---|---|
| **Envelope Loads** | | |
| Skylite Solar | 0 | 0 |
| Skylite Cond | 0 | 0 |
| Roof Cond | 0 | 0 |
| Glass Solar | 3,992 | 24 |
| Glass Cond | 2,964 | 18 |
| Wall Cond | 6,492 | 39 |
| Partition | 466 | 3 |
| Exposed Floor | 0 | 0 |
| Infiltration | 901 | 5 |
| *Sub Total* ==> | 14,815 | 89 |
| **Internal Loads** | | |
| Lights | 341 | 2 |
| People | 250 | 2 |
| Misc | 0 | 0 |
| *Sub Total* ==> | 591 | 4 |
| **Ceiling Load** | 1,223 | 7 |
| **Ventilation Load** | 0 | 0 |
| **Ov/Undr Sizing** | 0 | 0 |
| ***Grand Total ==>*** | 16,629 | 100.00 |

## HEATING COIL PEAK

Mo/Hr: Heating Design
OADB: 47

| | Space Peak Space Sens Btu/h | Coil Peak Tot Sens Btu/h | Percent Of Total (%) |
|---|---|---|---|
| **Envelope Loads** | | | |
| Skylite Solar | 0 | 0 | 0 |
| Skylite Cond | 0 | 0 | 0 |
| Roof Cond | 0 | -752 | 5 |
| Glass Solar | 0 | 0 | 0 |
| Glass Cond | -5,510 | -5,510 | 40 |
| Wall Cond | -4,034 | -5,433 | 39 |
| Partition | -733 | -733 | 5 |
| Exposed Floor | 0 | 0 | 0 |
| Infiltration | -1,538 | -1,538 | 11 |
| *Sub Total* ==> | -11,815 | -13,966 | 101 |
| **Internal Loads** | | | |
| Lights | 0 | 0 | 0 |
| People | 0 | 0 | 0 |
| Misc | 0 | 0 | 0 |
| *Sub Total* ==> | 0 | 0 | 0 |
| **Ceiling Load** | -535 | 0 | 0 |
| **Ventilation Load** | 0 | 0 | 0 |
| **Ov/Undr Sizing** | 0 | 0 | 0 |
| **Exhaust Heat** | | 110 | -1 |
| **OA Preheat Diff.** | | 0 | 0 |
| **RA Preheat Diff.** | | 0 | 0 |
| **Additional Reheat** | | 0 | 0 |
| **System Plenum Heat** | | 0 | 0 |
| ***Grand Total ==>*** | -12,350 | -13,856 | 100.00 |

## TEMPERATURES

| | Cooling | Heating |
|---|---|---|
| **SADB** | 58.5 | 80.3 |
| **Plenum** | 78.4 | 66.5 |
| **Return** | 78.4 | 66.5 |
| **Ret/OA** | 78.4 | 66.5 |
| **Fn MtrTD** | 0.0 | 0.0 |
| **Fn BldTD** | 0.0 | 0.0 |
| **Fn Frict** | 0.0 | 0.0 |

## AIRFLOWS

| | Cooling | Heating |
|---|---|---|
| **Vent** | 0 | 0 |
| **Infil** | 66 | 66 |
| **Supply** | 901 | 901 |
| **MinStop/Rh** | 0 | 0 |
| **Return** | 967 | 967 |
| **Exhaust** | 66 | 66 |
| **Rm Exh** | 0 | 0 |
| **Auxil** | 0 | 0 |

## ENGINEERING CKS

| | Cooling | Heating |
|---|---|---|
| **% OA** | 0.0 | 0.0 |
| **cfm/ft²** | 0.80 | 0.80 |
| **cfm/ton** | 483.12 | |
| **ft²/ton** | 603.26 | |
| **Btu/hr·ft²** | 19.89 | -12.31 |
| **No. People** | 1 | |

## COOLING COIL SELECTION

| | Total Capacity ton | Total Capacity MBh | Sens Cap. MBh | Coil Airflow cfm | Enter DB °F | Enter WB °F | Enter HR gr/lb | Leave DB °F | Leave WB °F | Leave HR gr/lb |
|---|---|---|---|---|---|---|---|---|---|---|
| **Main Clg** | 1.9 | 22.4 | 20.1 | 901 | 78.4 | 63.7 | 64.9 | 58.5 | 55.6 | 61.3 |
| **Aux Clg** | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| **Opt Vent** | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ***Total*** | 1.9 | 22.4 | | | | | | | | |

## AREAS

| | Gross Total | Glass ft² | Glass (%) |
|---|---|---|---|
| **Floor** | 1,126 | | |
| **Part** | 90 | | |
| **ExFlr** | 0 | | |
| **Roof** | 1,126 | 0 | 0 |
| **Wall** | 1,345 | 246 | 18 |

## HEATING COIL SELECTION

| | Capacity MBh | Coil Airflow cfm | Ent °F | Lvg °F |
|---|---|---|---|---|
| **Main Htg** | -13.9 | 901 | 66.5 | 80.3 |
| **Aux Htg** | 0.0 | 0 | 0.0 | 0.0 |
| **Preheat** | 0.0 | 0 | 0.0 | 0.0 |
| **Humidif** | 0.0 | 0 | 0.0 | 0.0 |
| **Opt Vent** | 0.0 | 0 | 0.0 | 0.0 |
| ***Total*** | -13.9 | | | |



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# Room Checksums

By DFG

## Staff Room

### COOLING COIL PEAK

Peaked at Time: Mo/Hr: 7 / 17
Outside Air: OADB/WB/HR: 88 / 75 / 113

| | Space Sens. + Lat. Btu/h | Plenum Sens. + Lat Btu/h | Net Total Btu/h | Percent Of Total (%) |
|---|---|---|---|---|
| **Envelope Loads** | | | | |
| Skylite Solar | 0 | 0 | 0 | 0 |
| Skylite Cond | 0 | 0 | 0 | 0 |
| Roof Cond | 0 | 204 | 204 | 5 |
| Glass Solar | 181 | 0 | 181 | 5 |
| Glass Cond | 244 | 0 | 244 | 6 |
| Wall Cond | 722 | 211 | 933 | 23 |
| Partition | 1,085 | | 1,085 | 27 |
| Exposed Floor | 0 | | 0 | 0 |
| Infiltration | 553 | | 553 | 14 |
| *Sub Total* ==> | 2,785 | 415 | 3,200 | 80 |
| **Internal Loads** | | | | |
| Lights | 341 | 0 | 341 | 9 |
| People | 500 | | 500 | 12 |
| Misc | 0 | 0 | 0 | 0 |
| *Sub Total* ==> | 841 | 0 | 841 | 21 |
| **Ceiling Load** | 144 | -144 | 0 | 0 |
| **Ventilation Load** | 0 | 0 | 0 | 0 |
| **Dehumid. Ov Sizing** | | | 0 | 0 |
| **Ov/Undr Sizing** | 0 | | 0 | 0 |
| **Exhaust Heat** | | -30 | -30 | -1 |
| **Sup. Fan Heat** | | | 0 | 0 |
| **Ret. Fan Heat** | | 0 | 0 | 0 |
| **Duct Heat Pkup** | | 0 | 0 | 0 |
| **Reheat at Design** | | | 0 | 0 |
| ***Grand Total ==>*** | 3,770 | 241 | 4,011 | 100.00 |

### CLG SPACE PEAK

Mo/Hr: 7 / 17
OADB: 88

| | Space Sensible Btu/h | Percent Of Total (%) |
|---|---|---|
| **Envelope Loads** | | |
| Skylite Solar | 0 | 0 |
| Skylite Cond | 0 | 0 |
| Roof Cond | 0 | 0 |
| Glass Solar | 181 | 6 |
| Glass Cond | 244 | 8 |
| Wall Cond | 722 | 23 |
| Partition | 1,085 | 35 |
| Exposed Floor | 0 | 0 |
| Infiltration | 165 | 5 |
| *Sub Total* ==> | 2,397 | 77 |
| **Internal Loads** | | |
| Lights | 341 | 11 |
| People | 250 | 8 |
| Misc | 0 | 0 |
| *Sub Total* ==> | 591 | 19 |
| **Ceiling Load** | 144 | 5 |
| **Ventilation Load** | 0 | 0 |
| **Ov/Undr Sizing** | 0 | 0 |
| ***Grand Total ==>*** | 3,132 | 100.00 |

### HEATING COIL PEAK

Mo/Hr: Heating Design
OADB: 47

| | Space Peak Space Sens Btu/h | Coil Peak Tot Sens Btu/h | Percent Of Total (%) |
|---|---|---|---|
| **Envelope Loads** | | | |
| Skylite Solar | 0 | 0 | 0 |
| Skylite Cond | 0 | 0 | 0 |
| Roof Cond | 0 | -51 | 2 |
| Glass Solar | 0 | 0 | 0 |
| Glass Cond | -433 | -433 | 13 |
| Wall Cond | -688 | -901 | 28 |
| Partition | -1,629 | -1,629 | 50 |
| Exposed Floor | 0 | 0 | 0 |
| Infiltration | -269 | -269 | 8 |
| *Sub Total* ==> | -3,019 | -3,283 | 100 |
| **Internal Loads** | | | |
| Lights | 0 | 0 | 0 |
| People | 0 | 0 | 0 |
| Misc | 0 | 0 | 0 |
| *Sub Total* ==> | 0 | 0 | 0 |
| **Ceiling Load** | -68 | 0 | 0 |
| **Ventilation Load** | 0 | 0 | 0 |
| **Ov/Undr Sizing** | 0 | 0 | 0 |
| **Exhaust Heat** | | 14 | 0 |
| **OA Preheat Diff.** | | 0 | 0 |
| **RA Preheat Diff.** | | 0 | 0 |
| **Additional Reheat** | | 0 | 0 |
| **System Plenum Heat** | | -4 | 0 |
| ***Grand Total ==>*** | -3,087 | -3,274 | 100.00 |

### TEMPERATURES

| | Cooling | Heating |
|---|---|---|
| **SADB** | 56.9 | 85.9 |
| **Plenum** | 77.3 | 66.9 |
| **Return** | 77.3 | 66.9 |
| **Ret/OA** | 77.3 | 66.9 |
| **Fn MtrTD** | 0.0 | 0.0 |
| **Fn BldTD** | 0.0 | 0.0 |
| **Fn Frict** | 0.1 | 0.0 |

### AIRFLOWS

| | Cooling | Heating |
|---|---|---|
| **Vent** | 0 | 0 |
| **Infil** | 11 | 11 |
| **Supply** | 155 | 155 |
| **MinStop/Rh** | 0 | 0 |
| **Return** | 166 | 166 |
| **Exhaust** | 11 | 11 |
| **Rm Exh** | 0 | 0 |
| **Auxil** | 0 | 0 |

### ENGINEERING CKS

| | Cooling | Heating |
|---|---|---|
| **% OA** | 0.0 | 0.0 |
| **cfm/ft²** | 0.79 | 0.79 |
| **cfm/ton** | 463.67 | |
| **ft²/ton** | 588.71 | |
| **Btu/hr·ft²** | 20.38 | -16.64 |
| **No. People** | 1 | |

### COOLING COIL SELECTION

| | Total Capacity ton | Total Capacity MBh | Sens Cap. MBh | Coil Airflow cfm | Enter DB/WB/HR °F | °F | gr/lb | Leave DB/WB/HR °F | °F | gr/lb |
|---|---|---|---|---|---|---|---|---|---|---|
| **Main Clg** | 0.3 | 4.0 | 3.4 | 155 | 77.3 | 63.4 | 64.9 | 56.7 | 54.7 | 60.8 |
| **Aux Clg** | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| **Opt Vent** | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ***Total*** | 0.3 | 4.0 | | | | | | | | |

### AREAS

| | Gross Total ft² | Glass ft² | Glass (%) |
|---|---|---|---|
| **Floor** | 197 | | |
| **Part** | 200 | | |
| **ExFlr** | 0 | | |
| **Roof** | 75 | 0 | 0 |
| **Wall** | 200 | 19 | 10 |

### HEATING COIL SELECTION

| | Capacity MBh | Coil Airflow cfm | Ent °F | Lvg °F |
|---|---|---|---|---|
| **Main Htg** | -3.3 | 155 | 66.9 | 85.9 |
| **Aux Htg** | 0.0 | 0 | 0.0 | 0.0 |
| **Preheat** | 0.0 | 0 | 0.0 | 0.0 |
| **Humidif** | 0.0 | 0 | 0.0 | 0.0 |
| **Opt Vent** | 0.0 | 0 | 0.0 | 0.0 |
| ***Total*** | -3.3 | | | |



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# Room Checksums

By DFG

**Study**

## COOLING COIL PEAK

Peaked at Time: Mo/Hr: 7 / 18
Outside Air: OADB/WB/HR: 87 / 74 / 108

| | Space Sens. + Lat. Btu/h | Plenum Sens. + Lat Btu/h | Net Total Btu/h | Percent Of Total (%) |
|---|---|---|---|---|
| **Envelope Loads** | | | | |
| Skylite Solar | 0 | 0 | 0 | 0 |
| Skylite Cond | 0 | 0 | 0 | 0 |
| Roof Cond | 0 | 199 | 199 | 3 |
| Glass Solar | 1,119 | 0 | 1,119 | 18 |
| Glass Cond | 1,244 | 0 | 1,244 | 20 |
| Wall Cond | 710 | 393 | 1,103 | 18 |
| Partition | 1,042 | | 1,042 | 17 |
| Exposed Floor | 0 | | 0 | 0 |
| Infiltration | 599 | | 599 | 10 |
| *Sub Total* ==> | 4,714 | 592 | 5,306 | 87 |
| **Internal Loads** | | | | |
| Lights | 341 | 0 | 341 | 6 |
| People | 500 | | 500 | 8 |
| Misc | 0 | 0 | 0 | 0 |
| *Sub Total* ==> | 841 | 0 | 841 | 14 |
| **Ceiling Load** | 173 | -173 | 0 | 0 |
| **Ventilation Load** | 0 | 0 | 0 | 0 |
| **Dehumid. Ov Sizing** | | | 0 | 0 |
| **Ov/Undr Sizing** | 0 | | 0 | 0 |
| **Exhaust Heat** | | -35 | -35 | -1 |
| **Sup. Fan Heat** | | | 0 | 0 |
| **Ret. Fan Heat** | | 0 | 0 | 0 |
| **Duct Heat Pkup** | | 0 | 0 | 0 |
| **Reheat at Design** | | | 0 | 0 |
| ***Grand Total ==>*** | 5,728 | 384 | 6,111 | 100.00 |

## CLG SPACE PEAK

Mo/Hr: 7 / 18
OADB: 87

| | Space Sensible Btu/h | Percent Of Total (%) |
|---|---|---|
| **Envelope Loads** | | |
| Skylite Solar | 0 | 0 |
| Skylite Cond | 0 | 0 |
| Roof Cond | 0 | 0 |
| Glass Solar | 1,119 | 22 |
| Glass Cond | 1,244 | 25 |
| Wall Cond | 710 | 14 |
| Partition | 1,042 | 21 |
| Exposed Floor | 0 | 0 |
| Infiltration | 180 | 4 |
| *Sub Total* ==> | 4,295 | 85 |
| **Internal Loads** | | |
| Lights | 341 | 7 |
| People | 250 | 5 |
| Misc | 0 | 0 |
| *Sub Total* ==> | 591 | 12 |
| **Ceiling Load** | 173 | 3 |
| **Ventilation Load** | 0 | 0 |
| **Ov/Undr Sizing** | 0 | 0 |
| ***Grand Total ==>*** | 5,059 | 100.00 |

## HEATING COIL PEAK

Mo/Hr: Heating Design
OADB: 47

| | Space Peak Space Sens Btu/h | Coil Peak Tot Sens Btu/h | Percent Of Total (%) |
|---|---|---|---|
| **Envelope Loads** | | | |
| Skylite Solar | 0 | 0 | 0 |
| Skylite Cond | 0 | 0 | 0 |
| Roof Cond | 0 | -51 | 1 |
| Glass Solar | 0 | 0 | 0 |
| Glass Cond | -2,410 | -2,410 | 46 |
| Wall Cond | -493 | -773 | 15 |
| Partition | -1,629 | -1,629 | 31 |
| Exposed Floor | 0 | 0 | 0 |
| Infiltration | -321 | -321 | 6 |
| *Sub Total* ==> | -4,853 | -5,185 | 98 |
| **Internal Loads** | | | |
| Lights | 0 | 0 | 0 |
| People | 0 | 0 | 0 |
| Misc | 0 | 0 | 0 |
| *Sub Total* ==> | 0 | 0 | 0 |
| **Ceiling Load** | -81 | 0 | 0 |
| **Ventilation Load** | 0 | 0 | 0 |
| **Ov/Undr Sizing** | -52 | -52 | 1 |
| **Exhaust Heat** | | 17 | 0 |
| **OA Preheat Diff.** | | 0 | 0 |
| **RA Preheat Diff.** | | 0 | 0 |
| **Additional Reheat** | | 0 | 0 |
| **System Plenum Heat** | | -68 | 1 |
| ***Grand Total ==>*** | -4,986 | -5,288 | 100.00 |

## TEMPERATURES

| | Cooling | Heating |
|---|---|---|
| **SADB** | 56.9 | 85.9 |
| **Plenum** | 77.3 | 66.9 |
| **Return** | 77.3 | 66.9 |
| **Ret/OA** | 77.3 | 66.9 |
| **Fn MtrTD** | 0.0 | 0.0 |
| **Fn BldTD** | 0.0 | 0.0 |
| **Fn Frict** | 0.1 | 0.0 |

## AIRFLOWS

| | Cooling | Heating |
|---|---|---|
| **Vent** | 0 | 0 |
| **Infil** | 14 | 14 |
| **Supply** | 250 | 250 |
| **MinStop/Rh** | 0 | 0 |
| **Return** | 264 | 264 |
| **Exhaust** | 14 | 14 |
| **Rm Exh** | 0 | 0 |
| **Auxil** | 0 | 0 |

## ENGINEERING CKS

| | Cooling | Heating |
|---|---|---|
| **% OA** | 0.0 | 0.0 |
| **cfm/ft²** | 1.07 | 1.07 |
| **cfm/ton** | 491.56 | |
| **ft²/ton** | 461.43 | |
| **Btu/hr·ft²** | 26.01 | -22.50 |
| **No. People** | 1 | |

## COOLING COIL SELECTION

| | Total Capacity ton | Total Capacity MBh | Sens Cap. MBh | Coil Airflow cfm | Enter DB °F | Enter WB °F | Enter gr/lb | Leave DB °F | Leave WB °F | Leave gr/lb |
|---|---|---|---|---|---|---|---|---|---|---|
| **Main Clg** | 0.5 | 6.1 | 5.4 | 250 | 77.3 | 63.4 | 64.9 | 56.7 | 55.2 | 62.9 |
| **Aux Clg** | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| **Opt Vent** | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ***Total*** | 0.5 | 6.1 | | | | | | | | |

## AREAS

| | Gross Total ft² | Glass ft² | Glass (%) |
|---|---|---|---|
| **Floor** | 235 | | |
| **Part** | 200 | | |
| **ExFlr** | 0 | | |
| **Roof** | 75 | 0 | 0 |
| **Wall** | 264 | 108 | 41 |

## HEATING COIL SELECTION

| | Capacity MBh | Coil Airflow cfm | Ent °F | Lvg °F |
|---|---|---|---|---|
| **Main Htg** | -5.3 | 250 | 66.9 | 85.9 |
| **Aux Htg** | 0.0 | 0 | 0.0 | 0.0 |
| **Preheat** | 0.0 | 0 | 0.0 | 0.0 |
| **Humidif** | 0.0 | 0 | 0.0 | 0.0 |
| **Opt Vent** | 0.0 | 0 | 0.0 | 0.0 |
| ***Total*** | -5.3 | | | |



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# ENTERED VALUES
## ROOM BY ROOM
By DFG

**Room Description: Family Room** | **Zone Description: Zone - 001** | **System Description: System - 001**

### GENERAL INFORMATION

| | |
|---|---|
| Floor Area: | 783 ft² |
| Flr-Flr Height: | 9.0 ft |
| Plenum Height: | 2.0 ft |
| Floor Cnstr Type: | 4* LW Concrete |
| Room Mass: | None |
| Ceiling R-Value: | 1.786 hr·ft²·°F/Btu |
| Is There Carpet?: | YES |
| Design Clg DB: | 75.0 °F |
| Design Htg DB: | 68.0 °F |
| Design RH: | 50 % |
| Height Above Floor: | 0 ft |
| Floor Multiplier: | 1 |
| Moisture Capacitance: | None |
| Room Multiplier: | 1 |
| Humidistat Location: | Room |

### PEOPLE AND LIGHTS

| | |
|---|---|
| People Type: | None |
| # of People: | 1 People |
| People Sensible: | 250 Btu/h |
| People Latent : | 250 Btu/h |
| People Schedule: | Cooling Only (Design) |
| Lighting Type: | Fluorescent, hung below ceiling, 100% load to space |
| Fixture Type: | SUSFLUOR |
| % Load to RA: | 0 % |
| Lighting Schedule: | Cooling Only (Design) |
| Lighting Amount: | 100.0 W |
| Ballast Factor: | 1.0 |

### AIRFLOW INFORMATION

| | Cooling | Heating |
|---|---|---|
| Vent Type: | None | None |
| Vent Value: | 0.00 cfm | 0.00 cfm |
| Vent Schedule: | Available (100%) | |
| Infil Type: | Neutral, Average Const. | Neutral, Average Const. |
| Infil Value: | 0.50 air changes/hr | 0.50 air changes/hr |
| Infil Schedule: | Available (100%) | |
| Vav Min Airflow: | | |
| Vav Min Sched: | Available (100%) | |
| Supply: | To be calculated | To be calculated |
| Aux Supply: | To be calculated | To be calculated |
| Room Exhaust: | | |

### ROOM COMPONENTS

| Description | Area/ Amount | Dir | Tilt | Const Type/ Schedule | U Value Btu/h·ft²·°F | Alpha | Glass Type | Glass Area ft² | Glass Shade Coef | Glass U Value Btu/h·ft²·°F | External Shading | Internal Shading | Adj Temp/ Grnd Refl | Pct Sen/ Cool Tmp | Pct Rm/ Heat Tmp | Pct Ret/ Perm Len | Rad Frc/ Loss Coef |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Roof - 1 | 783 ft² | 0 | 90 | 1* Wood, 8* Ins | 0.03 | 0.90 | | 0 | | | Overhang - None | None | | | | | |
| Wall - 1 | 341 ft² | 0 | 0 | 8* LW Block, 1* Ins | 0.24 | 0.90 | Single Coated 1/4* | 25 | 0.24 | 1.04 | Overhang - None | None | 1.00 | | | | |
| Wall - 3 | 240 ft² | 180 | 0 | 8* LW Block, 1* Ins | 0.24 | 0.90 | Single Coated 1/4* | 171 | 0.24 | 1.04 | Overhang - None | None | 1.00 | | | | |
| Wall - 2 | 330 ft² | 90 | 0 | 8* LW Block, 1* Ins | 0.24 | 0.90 | Single Coated 1/4* | 171 | 0.24 | 1.04 | Overhang - None | None | 1.00 | | | | |
| Partition - 1 | 72 ft² | | | 0.75* Gyp Frame | 0.39 | | | | | | | | Hourly C | | | | |

**Room Description: Kitchen** | **Zone Description: Zone - 001** | **System Description: System - 001**

### GENERAL INFORMATION

| | |
|---|---|
| Floor Area: | 528 ft² |
| Flr-Flr Height: | 9.0 ft |
| Plenum Height: | 2.0 ft |
| Floor Cnstr Type: | 4* LW Concrete |
| Room Mass: | None |
| Ceiling R-Value: | 1.786 hr·ft²·°F/Btu |
| Is There Carpet?: | YES |
| Design Clg DB: | 75.0 °F |
| Design Htg DB: | 68.0 °F |
| Design RH: | 50 % |
| Height Above Floor: | 0 ft |
| Floor Multiplier: | 1 |
| Moisture Capacitance: | None |
| Room Multiplier: | 1 |
| Humidistat Location: | Room |

### PEOPLE AND LIGHTS

| | |
|---|---|
| People Type: | None |
| # of People: | 1 People |
| People Sensible: | 250 Btu/h |
| People Latent : | 250 Btu/h |
| People Schedule: | Cooling Only (Design) |
| Lighting Type: | Fluorescent, hung below ceiling, 100% load to space |
| Fixture Type: | SUSFLUOR |
| % Load to RA: | 0 % |
| Lighting Schedule: | Cooling Only (Design) |
| Lighting Amount: | 100.0 W |
| Ballast Factor: | 1.0 |

### AIRFLOW INFORMATION

| | Cooling | Heating |
|---|---|---|
| Vent Type: | None | None |
| Vent Value: | 50.00 cfm | 50.00 cfm |
| Vent Schedule: | Available (100%) | |
| Infil Type: | Neutral, Average Const. | Neutral, Average Const. |
| Infil Value: | 0.50 air changes/hr | 0.50 air changes/hr |
| Infil Schedule: | Available (100%) | |
| Vav Min Airflow: | | |
| Vav Min Sched: | Available (100%) | |
| Supply: | To be calculated | To be calculated |
| Aux Supply: | To be calculated | To be calculated |
| Room Exhaust: | | |

### ROOM COMPONENTS

| Description | Area/ Amount | Dir | Tilt | Const Type/ Schedule | U Value Btu/h·ft²·°F | Alpha | Glass Type | Glass Area ft² | Glass Shade Coef | Glass U Value Btu/h·ft²·°F | External Shading | Internal Shading | Adj Temp/ Grnd Refl | Pct Sen/ Cool Tmp | Pct Rm/ Heat Tmp | Pct Ret/ Perm Len | Rad Frc/ Loss Coef |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Roof - 1 | 240 ft² | 0 | 90 | 1* Wood, 8* Ins | 0.03 | 0.90 | | 0 | | | Overhang - None | None | | | | | |
| Wall - 1 | 168 ft² | 0 | 0 | 8* LW Block, 1* Ins | 0.24 | 0.90 | Single Coated 1/4* | 21 | 0.24 | 1.04 | Overhang - None | None | 1.00 | | | | |
| Misc Equip 1 | 0.1 kW | | | Cooling Only (Design) | | | | | | | | | | 100 | 100 | 0 | 60.00 |
| Partition - 1 | 72 ft² | | | 0.75* Gyp Frame | 0.39 | | | | | | | | Hourly C | | | | |

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# ENTERED VALUES
## ROOM BY ROOM
By DFG

**Room Description: Laundry Room** | **Zone Description: Zone - 001** | **System Description: System - 001**

### GENERAL INFORMATION

| | |
|---|---|
| Floor Area: | 299 ft² |
| Flr-Flr Height: | 9.0 ft |
| Plenum Height: | 2.0 ft |
| Floor Cnstr Type: | 4* LW Concrete |
| Room Mass: | None |
| Ceiling R-Value: | 1.786 hr·ft²·°F/Btu |
| Is There Carpet?: | YES |
| Design Clg DB: | 75.0 °F |
| Design Htg DB: | 68.0 °F |
| Design RH: | 50 % |
| Height Above Floor: | 0 ft |
| Floor Multiplier: | 1 |
| Moisture Capacitance: | None |
| Room Multiplier: | 1 |
| Humidistat Location: | Room |

### PEOPLE AND LIGHTS

| | |
|---|---|
| People Type: | None |
| # of People: | 1 People |
| People Sensible: | 250 Btu/h |
| People Latent : | 250 Btu/h |
| People Schedule: | Cooling Only (Design) |
| Lighting Type: | Fluorescent, hung below ceiling, 100% load to space |
| Fixture Type: | SUSFLUOR |
| % Load to RA: | 0 % |
| Lighting Schedule: | Cooling Only (Design) |
| Lighting Amount: | 100.0 W |
| Ballast Factor: | 1.0 |

### AIRFLOW INFORMATION

| | Cooling | Heating |
|---|---|---|
| Vent Type: | None | None |
| Vent Value: | 0.00 cfm | 0.00 cfm |
| Vent Schedule: | Available (100%) | |
| Infil Type: | Neutral, Average Const. | Neutral, Average Const. |
| Infil Value: | 0.50 air changes/hr | 0.50 air changes/hr |
| Infil Schedule: | Available (100%) | |
| Vav Min Airflow: | | |
| Vav Min Sched: | Available (100%) | |
| Supply: | To be calculated | To be calculated |
| Aux Supply: | To be calculated | To be calculated |
| Room Exhaust: | | |

### ROOM COMPONENTS

| Description | Area/ Amount | Dir | Tilt | Const Type/ Schedule | U Value Btu/h·ft²·°F | Alpha | Glass Type | Glass Area ft² | Glass Shade Coef | Glass U Value Btu/h·ft²·°F | Glass External Shading | Glass Internal Shading | Adj Temp/ Grnd Refl | Pct Sen/ Cool Tmp | Pct Rm/ Heat Tmp | Pct Ret/ Perm Len | Rad Frc/ Loss Coef |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Roof - 1 | 190 ft² | 0 | 90 | 1* Wood, 8* Ins | 0.03 | 0.90 | | 0 | | | Overhang - None | None | | | | | |
| Wall - 1 | 113 ft² | 0 | 0 | 8* LW Block, 1* Ins | 0.24 | 0.90 | Single Coated 1/4* | 17 | 0.24 | 1.04 | Overhang - None | None | 1.00 | | | | |
| Misc Equip 1 | 0.1 kW | | | Cooling Only (Design) | | | | | | | | | | 100 | 100 | 0 | 60.00 |
| Partition - 1 | 180 ft² | | | 0.75* Gyp Frame | 0.39 | | | | | | | | Hourly C | | | | |
| Partition - 2 | 50 ft² | | | 0.75* Gyp Frame | 0.39 | | | | | | | | Hourly C | | | | |

**Room Description: Staff Room** | **Zone Description: Zone - 001** | **System Description: System - 001**

### GENERAL INFORMATION

| | |
|---|---|
| Floor Area: | 197 ft² |
| Flr-Flr Height: | 9.0 ft |
| Plenum Height: | 2.0 ft |
| Floor Cnstr Type: | 4* LW Concrete |
| Room Mass: | None |
| Ceiling R-Value: | 1.786 hr·ft²·°F/Btu |
| Is There Carpet?: | YES |
| Design Clg DB: | 75.0 °F |
| Design Htg DB: | 68.0 °F |
| Design RH: | 50 % |
| Height Above Floor: | 0 ft |
| Floor Multiplier: | 1 |
| Moisture Capacitance: | None |
| Room Multiplier: | 1 |
| Humidistat Location: | Room |

### PEOPLE AND LIGHTS

| | |
|---|---|
| People Type: | None |
| # of People: | 1 People |
| People Sensible: | 250 Btu/h |
| People Latent : | 250 Btu/h |
| People Schedule: | Cooling Only (Design) |
| Lighting Type: | Fluorescent, hung below ceiling, 100% load to space |
| Fixture Type: | SUSFLUOR |
| % Load to RA: | 0 % |
| Lighting Schedule: | Cooling Only (Design) |
| Lighting Amount: | 100.0 W |
| Ballast Factor: | 1.0 |

### AIRFLOW INFORMATION

| | Cooling | Heating |
|---|---|---|
| Vent Type: | None | None |
| Vent Value: | 0.00 cfm | 0.00 cfm |
| Vent Schedule: | Available (100%) | |
| Infil Type: | Neutral, Average Const. | Neutral, Average Const. |
| Infil Value: | 0.50 air changes/hr | 0.50 air changes/hr |
| Infil Schedule: | Available (100%) | |
| Vav Min Airflow: | | |
| Vav Min Sched: | Available (100%) | |
| Supply: | To be calculated | To be calculated |
| Aux Supply: | To be calculated | To be calculated |
| Room Exhaust: | | |

### ROOM COMPONENTS

| Description | Area/ Amount | Dir | Tilt | Const Type/ Schedule | U Value Btu/h·ft²·°F | Alpha | Glass Type | Glass Area ft² | Glass Shade Coef | Glass U Value Btu/h·ft²·°F | Glass External Shading | Glass Internal Shading | Adj Temp/ Grnd Refl | Pct Sen/ Cool Tmp | Pct Rm/ Heat Tmp | Pct Ret/ Perm Len | Rad Frc/ Loss Coef |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Roof - 1 | 75 ft² | 0 | 90 | 1* Wood, 8* Ins | 0.03 | 0.90 | | 0 | | | Overhang - None | None | | | | | |
| Wall - 1 | 200 ft² | 0 | 0 | 8* LW Block, 1* Ins | 0.24 | 0.90 | Single Clear 1/4* | 19 | 0.24 | 1.04 | Overhang - None | None | 1.00 | | | | |
| Partition - 2 | 100 ft² | | | 0.75* Gyp Frame | 0.39 | | | | | | | | Hourly C | | | | |
| Partition - 1 | 100 ft² | | | 0.75* Gyp Frame | 0.39 | | | | | | | | Hourly C | | | | |

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# ENTERED VALUES
## ROOM BY ROOM
By DFG

**Room Description: Study** | **Zone Description: Zone - 001** | **System Description: System - 001**

### GENERAL INFORMATION

| | |
|---|---|
| Floor Area: | 235 ft² |
| Flr-Flr Height: | 9.0 ft |
| Plenum Height: | 2.0 ft |
| Floor Cnstr Type: | 4* LW Concrete |
| Room Mass: | None |
| Ceiling R-Value: | 1.786 hr·ft²·°F/Btu |
| Is There Carpet?: | YES |
| Design Clg DB: | 75.0 °F |
| Design Htg DB: | 68.0 °F |
| Design RH: | 50 % |
| Height Above Floor: | 0 ft |
| Floor Multiplier: | 1 |
| Moisture Capacitance: | None |
| Room Multiplier: | 1 |
| Humidistat Location: | Room |

### PEOPLE AND LIGHTS

| | |
|---|---|
| People Type: | None |
| # of People: | 1 People |
| People Sensible: | 250 Btu/h |
| People Latent : | 250 Btu/h |
| People Schedule: | Cooling Only (Design) |
| Lighting Type: | Fluorescent, hung below ceiling, 100% load to space |
| Fixture Type: | SUSFLUOR |
| % Load to RA: | 0 % |
| Lighting Schedule: | Cooling Only (Design) |
| Lighting Amount: | 100.0 W |
| Ballast Factor: | 1.0 |

### AIRFLOW INFORMATION

| | Cooling | Heating |
|---|---|---|
| Vent Type: | None | None |
| Vent Value: | 0.00 cfm | 0.00 cfm |
| Vent Schedule: | Available (100%) | |
| Infil Type: | Neutral, Average Const. | Neutral, Average Const. |
| Infil Value: | 0.50 air changes/hr | 0.50 air changes/hr |
| Infil Schedule: | Available (100%) | |
| Vav Min Airflow: | | |
| Vav Min Sched: | Available (100%) | |
| Supply: | To be calculated | To be calculated |
| Aux Supply: | To be calculated | To be calculated |
| Room Exhaust: | | |

### ROOM COMPONENTS

| Description | Area/ Amount | Dir | Tilt | Const Type/ Schedule | U Value Btu/h·ft²·°F | Alpha | Glass Type | Glass Area ft² | Glass Shade Coef | Glass U Value Btu/h·ft²·°F | External Shading | Internal Shading | Adj Temp/ Grnd Refl | Pct Sen/ Cool Tmp | Pct Rm/ Heat Tmp | Pct Ret/ Perm Len | Rad Frc/ Loss Coef |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Roof - 1 | 75 ft² | 0 | 90 | 1* Wood, 8* Ins | 0.03 | 0.90 | | 0 | | | Overhang - None | None | | | | | |
| Wall - 1 | 156 ft² | 0 | 0 | 8* LW Block, 1* Ins | 0.24 | 0.90 | Single Clear 1/4* | 108 | 0.24 | 1.04 | Overhang - None | None | 1.00 | | | | |
| Wall - 2 | 108 ft² | 270 | 0 | 8* LW Block, 1* Ins | 0.24 | 0.90 | | 0 | | | Overhang - None | None | 1.00 | | | | |
| Partition - 2 | 100 ft² | | | 0.75* Gyp Frame | 0.39 | | | | | | | | Hourly C | | | | |
| Partition - 1 | 100 ft² | | | 0.75* Gyp Frame | 0.39 | | | | | | | | Hourly C | | | | |

**Room Description: Billards** | **Zone Description: Zone - 002** | **System Description: System - 002**

### GENERAL INFORMATION

| | |
|---|---|
| Floor Area: | 347 ft² |
| Flr-Flr Height: | 9.0 ft |
| Plenum Height: | 2.0 ft |
| Floor Cnstr Type: | 4* LW Concrete |
| Room Mass: | None |
| Ceiling R-Value: | 1.786 hr·ft²·°F/Btu |
| Is There Carpet?: | YES |
| Design Clg DB: | 75.0 °F |
| Design Htg DB: | 68.0 °F |
| Design RH: | 50 % |
| Height Above Floor: | 0 ft |
| Floor Multiplier: | 1 |
| Moisture Capacitance: | None |
| Room Multiplier: | 1 |
| Humidistat Location: | Room |

### PEOPLE AND LIGHTS

| | |
|---|---|
| People Type: | None |
| # of People: | 1 People |
| People Sensible: | 250 Btu/h |
| People Latent : | 250 Btu/h |
| People Schedule: | Cooling Only (Design) |
| Lighting Type: | Fluorescent, hung below ceiling, 100% load to space |
| Fixture Type: | SUSFLUOR |
| % Load to RA: | 0 % |
| Lighting Schedule: | Cooling Only (Design) |
| Lighting Amount: | 100.0 W |
| Ballast Factor: | 1.0 |

### AIRFLOW INFORMATION

| | Cooling | Heating |
|---|---|---|
| Vent Type: | None | None |
| Vent Value: | 0.00 cfm | 0.00 cfm |
| Vent Schedule: | Available (100%) | |
| Infil Type: | Neutral, Average Const. | Neutral, Average Const. |
| Infil Value: | 0.50 air changes/hr | 0.50 air changes/hr |
| Infil Schedule: | Available (100%) | |
| Vav Min Airflow: | | |
| Vav Min Sched: | Available (100%) | |
| Supply: | To be calculated | To be calculated |
| Aux Supply: | To be calculated | To be calculated |
| Room Exhaust: | | |

### ROOM COMPONENTS

| Description | Area/ Amount | Dir | Tilt | Const Type/ Schedule | U Value Btu/h·ft²·°F | Alpha | Glass Type | Glass Area ft² | Glass Shade Coef | Glass U Value Btu/h·ft²·°F | External Shading | Internal Shading | Adj Temp/ Grnd Refl | Pct Sen/ Cool Tmp | Pct Rm/ Heat Tmp | Pct Ret/ Perm Len | Rad Frc/ Loss Coef |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Roof - 1 | 25 ft² | 0 | 90 | 1* Wood, 8* Ins | 0.03 | 0.90 | | 0 | | | Overhang - None | None | | | | | |
| Wall - 2 | 281 ft² | 90 | 0 | 8* LW Block, 1* Ins | 0.24 | 0.90 | Single Clear 1/4* | 171 | 0.24 | 1.04 | Overhang - None | None | 1.00 | | | | |
| Wall - 1 | 240 ft² | 0 | 0 | 8* LW Block, 1* Ins | 0.24 | 0.90 | Single Coated 1/4* | 171 | 0.24 | 1.04 | Overhang - None | None | 1.00 | | | | |
| Wall - 3 | 240 ft² | 180 | 0 | 8* LW Block, 1* Ins | 0.24 | 0.90 | | 0 | | | Overhang - 10Ft | None | 1.00 | | | | |

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# ENTERED VALUES
## ROOM BY ROOM
By DFG

**Room Description: Lounge 1** **Zone Description: Zone - 002** **System Description: System - 002**

### GENERAL INFORMATION

| | |
|---|---|
| Floor Area: | 616 ft² |
| Flr-Flr Height: | 9.0 ft |
| Plenum Height: | 2.0 ft |
| Floor Cnstr Type: | 4* LW Concrete |
| Room Mass: | None |
| Ceiling R-Value: | 1.786 hr·ft²·°F/Btu |
| Is There Carpet?: | YES |
| Design Clg DB: | 75.0 °F |
| Design Htg DB: | 68.0 °F |
| Design RH: | 50 % |
| Height Above Floor: | 0 ft |
| Floor Multiplier: | 1 |
| Moisture Capacitance: | None |
| Room Multiplier: | 1 |
| Humidistat Location: | Room |

### PEOPLE AND LIGHTS

| | |
|---|---|
| People Type: | None |
| # of People: | 1 People |
| People Sensible: | 250 Btu/h |
| People Latent : | 250 Btu/h |
| People Schedule: | Cooling Only (Design) |
| Lighting Type: | Fluorescent, hung below ceiling, 100% load to space |
| Fixture Type: | SUSFLUOR |
| % Load to RA: | 0 % |
| Lighting Schedule: | Cooling Only (Design) |
| Lighting Amount: | 100.0 W |
| Ballast Factor: | 1.0 |

### AIRFLOW INFORMATION

| | Cooling | Heating |
|---|---|---|
| Vent Type: | None | None |
| Vent Value: | 0.00 cfm | 0.00 cfm |
| Vent Schedule: | Available (100%) | |
| Infil Type: | Neutral, Average Const. | Neutral, Average Const. |
| Infil Value: | 0.50 air changes/hr | 0.50 air changes/hr |
| Infil Schedule: | Available (100%) | |
| Vav Min Airflow: | | |
| Vav Min Sched: | Available (100%) | |
| Supply: | To be calculated | To be calculated |
| Aux Supply: | To be calculated | To be calculated |
| Room Exhaust: | | |

### ROOM COMPONENTS

| Description | Area/ Amount | Dir | Tilt | Const Type/ Schedule | U Value Btu/h·ft²·°F | Alpha | Glass Type | Glass Area ft² | Glass Shade Coef | Glass U Value Btu/h·ft²·°F | Glass External Shading | Glass Internal Shading | Adj Temp/ Grnd Refl | Pct Sen/ Cool Tmp | Pct Rm/ Heat Tmp | Pct Ret/ Perm Len | Rad Frc/ Loss Coef |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Roof - 1 | 25 ft² | 0 | 90 | 1* Wood, 8* Ins | 0.03 | 0.90 | | 0 | | | Overhang - None | None | | | | | |
| Wall - 1 | 276 ft² | 315 | 0 | 8* LW Block, 1* Ins | 0.24 | 0.90 | Single Coated 1/4* | 35 | 0.24 | 1.04 | Overhang - None | None | 1.00 | | | | |
| Partition - 1 | 63 ft² | | | 0.75* Gyp Frame | 0.39 | | | | | | | | Hourly C | | | | |
| Partition - 2 | 63 ft² | | | 0.75* Gyp Frame | 0.39 | | | | | | | | Hourly C | | | | |

**Room Description: Media** **Zone Description: Zone - 002** **System Description: System - 002**

### GENERAL INFORMATION

| | |
|---|---|
| Floor Area: | 440 ft² |
| Flr-Flr Height: | 9.0 ft |
| Plenum Height: | 2.0 ft |
| Floor Cnstr Type: | 4* LW Concrete |
| Room Mass: | None |
| Ceiling R-Value: | 1.786 hr·ft²·°F/Btu |
| Is There Carpet?: | YES |
| Design Clg DB: | 75.0 °F |
| Design Htg DB: | 68.0 °F |
| Design RH: | 50 % |
| Height Above Floor: | 0 ft |
| Floor Multiplier: | 1 |
| Moisture Capacitance: | None |
| Room Multiplier: | 1 |
| Humidistat Location: | Room |

### PEOPLE AND LIGHTS

| | |
|---|---|
| People Type: | None |
| # of People: | 1 People |
| People Sensible: | 250 Btu/h |
| People Latent : | 250 Btu/h |
| People Schedule: | Cooling Only (Design) |
| Lighting Type: | Fluorescent, hung below ceiling, 100% load to space |
| Fixture Type: | SUSFLUOR |
| % Load to RA: | 0 % |
| Lighting Schedule: | Cooling Only (Design) |
| Lighting Amount: | 100.0 W |
| Ballast Factor: | 1.0 |

### AIRFLOW INFORMATION

| | Cooling | Heating |
|---|---|---|
| Vent Type: | None | None |
| Vent Value: | 0.00 cfm | 0.00 cfm |
| Vent Schedule: | Available (100%) | |
| Infil Type: | Neutral, Average Const. | Neutral, Average Const. |
| Infil Value: | 0.50 air changes/hr | 0.50 air changes/hr |
| Infil Schedule: | Available (100%) | |
| Vav Min Airflow: | | |
| Vav Min Sched: | Available (100%) | |
| Supply: | To be calculated | To be calculated |
| Aux Supply: | To be calculated | To be calculated |
| Room Exhaust: | | |

### ROOM COMPONENTS

| Description | Area/ Amount | Dir | Tilt | Const Type/ Schedule | U Value Btu/h·ft²·°F | Alpha | Glass Type | Glass Area ft² | Glass Shade Coef | Glass U Value Btu/h·ft²·°F | Glass External Shading | Glass Internal Shading | Adj Temp/ Grnd Refl | Pct Sen/ Cool Tmp | Pct Rm/ Heat Tmp | Pct Ret/ Perm Len | Rad Frc/ Loss Coef |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Roof - 1 | 25 ft² | 0 | 90 | 1* Wood, 8* Ins | 0.03 | 0.90 | | 0 | | | Overhang - None | None | | | | | |
| Wall - 2 | 300 ft² | 180 | 0 | 8* LW Block, 1* Ins | 0.24 | 0.90 | | 0 | | | Overhang - 10Ft | None | 1.00 | | | | |
| Wall - 1 | 276 ft² | 270 | 0 | 8* LW Block, 1* Ins | 0.24 | 0.90 | Single Coated 1/4* | 90 | 0.24 | 1.04 | Overhang - | None | 1.00 | | | | |
| Partition - 2 | 45 ft² | | | 0.75* Gyp Frame | 0.39 | | | | | | | | Hourly C | | | | |
| Partition - 1 | 45 ft² | | | 0.75* Gyp Frame | 0.39 | | | | | | | | Hourly C | | | | |



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# ENTERED VALUES
## ROOM BY ROOM
By DFG

**Room Description: Dinning Room** | **Zone Description: Zone - 003** | **System Description: System - 003**

### GENERAL INFORMATION

| | |
|---|---|
| Floor Area: | 361 ft² |
| Flr-Flr Height: | 9.0 ft |
| Plenum Height: | 2.0 ft |
| Floor Cnstr Type: | 4* LW Concrete |
| Room Mass: | None |
| Ceiling R-Value: | 1.786 hr·ft²·°F/Btu |
| Is There Carpet?: | YES |
| Design Clg DB: | 75.0 °F |
| Design Htg DB: | 68.0 °F |
| Design RH: | 50 % |
| Height Above Floor: | 0 ft |
| Floor Multiplier: | 1 |
| Moisture Capacitance: | None |
| Room Multiplier: | 1 |
| Humidistat Location: | Room |

### PEOPLE AND LIGHTS

| | |
|---|---|
| People Type: | None |
| # of People: | 1 People |
| People Sensible: | 250 Btu/h |
| People Latent : | 250 Btu/h |
| People Schedule: | Cooling Only (Design) |
| Lighting Type: | Fluorescent, hung below ceiling, 100% load to space |
| Fixture Type: | SUSFLUOR |
| % Load to RA: | 0 % |
| Lighting Schedule: | Cooling Only (Design) |
| Lighting Amount: | 100.0 W |
| Ballast Factor: | 1.0 |

### AIRFLOW INFORMATION

| | Cooling | Heating |
|---|---|---|
| Vent Type: | None | None |
| Vent Value: | 0.00 cfm | 0.00 cfm |
| Vent Schedule: | Available (100%) | |
| Infil Type: | Neutral, Average Const. | Neutral, Average Const. |
| Infil Value: | 0.50 air changes/hr | 0.50 air changes/hr |
| Infil Schedule: | Available (100%) | |
| Vav Min Airflow: | | |
| Vav Min Sched: | Available (100%) | |
| Supply: | To be calculated | To be calculated |
| Aux Supply: | To be calculated | To be calculated |
| Room Exhaust: | | |

### ROOM COMPONENTS

| Description | Area/ Amount | Dir | Tilt | Const Type/ Schedule | U Value Btu/h·ft²·°F | Alpha | Glass Type | Glass Area ft² | Glass Shade Coef | Glass U Value Btu/h·ft²·°F | External Shading | Internal Shading | Adj Temp/ Grnd Refl | Pct Sen/ Cool Tmp | Pct Rm/ Heat Tmp | Pct Ret/ Perm Len | Rad Frc/ Loss Coef |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Roof - 1 | 100 ft² | 0 | 90 | 1* Wood, 8* Ins | 0.03 | 0.90 | | 0 | | | Overhang - None | None | | | | | |
| Wall - 2 | 89 ft² | 180 | 0 | 8* LW Block, 1* Ins | 0.24 | 0.90 | | 0 | | | Overhang - 10Ft | None | 1.00 | | | | |
| Wall - 1 | 192 ft² | 270 | 0 | 8* LW Block, 1* Ins | 0.24 | 0.90 | Single Clear 1/4* | 135 | 0.24 | 1.04 | Overhang - None | None | 1.00 | | | | |
| Partition - 2 | 100 ft² | | | 0.75* Gyp Frame | 0.39 | | | | | | | | Hourly C | | | | |
| Partition - 1 | 100 ft² | | | 0.75* Gyp Frame | 0.39 | | | | | | | | Hourly C | | | | |

**Room Description: Foyer 1rst Floor** | **Zone Description: Zone - 003** | **System Description: System - 003**

### GENERAL INFORMATION

| | |
|---|---|
| Floor Area: | 246 ft² |
| Flr-Flr Height: | 9.0 ft |
| Plenum Height: | 2.0 ft |
| Floor Cnstr Type: | 4* LW Concrete |
| Room Mass: | None |
| Ceiling R-Value: | 1.786 hr·ft²·°F/Btu |
| Is There Carpet?: | YES |
| Design Clg DB: | 75.0 °F |
| Design Htg DB: | 68.0 °F |
| Design RH: | 50 % |
| Height Above Floor: | 0 ft |
| Floor Multiplier: | 1 |
| Moisture Capacitance: | None |
| Room Multiplier: | 1 |
| Humidistat Location: | Room |

### PEOPLE AND LIGHTS

| | |
|---|---|
| People Type: | None |
| # of People: | 1 People |
| People Sensible: | 250 Btu/h |
| People Latent : | 250 Btu/h |
| People Schedule: | Cooling Only (Design) |
| Lighting Type: | Fluorescent, hung below ceiling, 100% load to space |
| Fixture Type: | SUSFLUOR |
| % Load to RA: | 0 % |
| Lighting Schedule: | Cooling Only (Design) |
| Lighting Amount: | 100.0 W |
| Ballast Factor: | 1.0 |

### AIRFLOW INFORMATION

| | Cooling | Heating |
|---|---|---|
| Vent Type: | None | None |
| Vent Value: | 0.00 cfm | 0.00 cfm |
| Vent Schedule: | Available (100%) | |
| Infil Type: | Neutral, Average Const. | Neutral, Average Const. |
| Infil Value: | 0.50 air changes/hr | 0.50 air changes/hr |
| Infil Schedule: | Available (100%) | |
| Vav Min Airflow: | | |
| Vav Min Sched: | Available (100%) | |
| Supply: | To be calculated | To be calculated |
| Aux Supply: | To be calculated | To be calculated |
| Room Exhaust: | | |

### ROOM COMPONENTS

| Description | Area/ Amount | Dir | Tilt | Const Type/ Schedule | U Value Btu/h·ft²·°F | Alpha | Glass Type | Glass Area ft² | Glass Shade Coef | Glass U Value Btu/h·ft²·°F | External Shading | Internal Shading | Adj Temp/ Grnd Refl | Pct Sen/ Cool Tmp | Pct Rm/ Heat Tmp | Pct Ret/ Perm Len | Rad Frc/ Loss Coef |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Roof - 1 | 100 ft² | 0 | 90 | 1* Wood, 8* Ins | 0.03 | 0.90 | | 0 | | | Overhang - None | None | | | | | |
| Wall - 1 | 204 ft² | 270 | 0 | 8* LW Block, 1* Ins | 0.24 | 0.90 | Single Coated 1/4* | 174 | 0.24 | 1.04 | Overhang - 10Ft | None | 1.00 | | | | |
| Partition - 1 | 100 ft² | | | 0.75* Gyp Frame | 0.39 | | | | | | | | Hourly C | | | | |

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# ENTERED VALUES
## ROOM BY ROOM
By DFG

**Room Description: Great Room** | **Zone Description: Zone - 003** | **System Description: System - 003**

### GENERAL INFORMATION

| | |
|---|---|
| Floor Area: | 768 ft² |
| Flr-Flr Height: | 9.0 ft |
| Plenum Height: | 2.0 ft |
| Floor Cnstr Type: | 4* LW Concrete |
| Room Mass: | None |
| Ceiling R-Value: | 1.786 hr·ft²·°F/Btu |
| Is There Carpet?: | YES |
| Design Clg DB: | 75.0 °F |
| Design Htg DB: | 68.0 °F |
| Design RH: | 50 % |
| Height Above Floor: | 0 ft |
| Floor Multiplier: | 1 |
| Moisture Capacitance: | None |
| Room Multiplier: | 1 |
| Humidistat Location: | Room |

### PEOPLE AND LIGHTS

| | |
|---|---|
| People Type: | None |
| # of People: | 1 People |
| People Sensible: | 250 Btu/h |
| People Latent : | 250 Btu/h |
| People Schedule: | Cooling Only (Design) |
| Lighting Type: | Fluorescent, hung below ceiling, 100% load to space |
| Fixture Type: | SUSFLUOR |
| % Load to RA: | 0 % |
| Lighting Schedule: | Cooling Only (Design) |
| Lighting Amount: | 100.0 W |
| Ballast Factor: | 1.0 |

### AIRFLOW INFORMATION

| | Cooling | Heating |
|---|---|---|
| Vent Type: | None | None |
| Vent Value: | 0.00 cfm | 0.00 cfm |
| Vent Schedule: | Available (100%) | |
| Infil Type: | Neutral, Average Const. | Neutral, Average Const. |
| Infil Value: | 0.50 air changes/hr | 0.50 air changes/hr |
| Infil Schedule: | Available (100%) | |
| Vav Min Airflow: | | |
| Vav Min Sched: | Available (100%) | |
| Supply: | To be calculated | To be calculated |
| Aux Supply: | To be calculated | To be calculated |
| Room Exhaust: | | |

### ROOM COMPONENTS

| Description | Area/ Amount | Dir | Tilt | Const Type/ Schedule | U Value Btu/h·ft²·°F | Alpha | Glass Type | Glass Area ft² | Glass Shade Coef | Glass U Value Btu/h·ft²·°F | Glass External Shading | Glass Internal Shading | Adj Temp/ Grnd Refl | Pct Sen/ Cool Tmp | Pct Rm/ Heat Tmp | Pct Ret/ Perm Len | Rad Frc/ Loss Coef |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Roof - 1 | 100 ft² | 0 | 90 | 1* Wood, 8* Ins | 0.03 | 0.90 | | 0 | | | Overhang - None | None | | | | | |
| Wall - 1 | 396 ft² | 90 | 0 | 8* LW Block, 1* Ins | 0.24 | 0.90 | Single Clear 1/4* | 283 | 0.24 | 1.04 | Overhang - None | None | 1.00 | | | | |
| Partition - 2 | 100 ft² | | | 0.75* Gyp Frame | 0.39 | | | | | | | | Hourly C | | | | |
| Partition - 1 | 100 ft² | | | 0.75* Gyp Frame | 0.39 | | | | | | | | Hourly C | | | | |

**Room Description: Bedroom #1 2nd Floor** | **Zone Description: Zone - 004** | **System Description: System - 004**

### GENERAL INFORMATION

| | |
|---|---|
| Floor Area: | 403 ft² |
| Flr-Flr Height: | 9.0 ft |
| Plenum Height: | 2.0 ft |
| Floor Cnstr Type: | 4* LW Concrete |
| Room Mass: | None |
| Ceiling R-Value: | 1.786 hr·ft²·°F/Btu |
| Is There Carpet?: | YES |
| Design Clg DB: | 75.0 °F |
| Design Htg DB: | 68.0 °F |
| Design RH: | 50 % |
| Height Above Floor: | 0 ft |
| Floor Multiplier: | 1 |
| Moisture Capacitance: | None |
| Room Multiplier: | 1 |
| Humidistat Location: | Room |

### PEOPLE AND LIGHTS

| | |
|---|---|
| People Type: | None |
| # of People: | 1 People |
| People Sensible: | 250 Btu/h |
| People Latent : | 250 Btu/h |
| People Schedule: | Cooling Only (Design) |
| Lighting Type: | Fluorescent, hung below ceiling, 100% load to space |
| Fixture Type: | SUSFLUOR |
| % Load to RA: | 0 % |
| Lighting Schedule: | Cooling Only (Design) |
| Lighting Amount: | 100.0 W |
| Ballast Factor: | 1.0 |

### AIRFLOW INFORMATION

| | Cooling | Heating |
|---|---|---|
| Vent Type: | None | None |
| Vent Value: | 0.00 cfm | 0.00 cfm |
| Vent Schedule: | Available (100%) | |
| Infil Type: | Neutral, Average Const. | Neutral, Average Const. |
| Infil Value: | 0.50 air changes/hr | 0.50 air changes/hr |
| Infil Schedule: | Available (100%) | |
| Vav Min Airflow: | | |
| Vav Min Sched: | Available (100%) | |
| Supply: | To be calculated | To be calculated |
| Aux Supply: | To be calculated | To be calculated |
| Room Exhaust: | | |

### ROOM COMPONENTS

| Description | Area/ Amount | Dir | Tilt | Const Type/ Schedule | U Value Btu/h·ft²·°F | Alpha | Glass Type | Glass Area ft² | Glass Shade Coef | Glass U Value Btu/h·ft²·°F | Glass External Shading | Glass Internal Shading | Adj Temp/ Grnd Refl | Pct Sen/ Cool Tmp | Pct Rm/ Heat Tmp | Pct Ret/ Perm Len | Rad Frc/ Loss Coef |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Roof - 1 | 403 ft² | 0 | 90 | 1* Wood, 8* Ins | 0.03 | 0.90 | | 0 | | | Overhang - None | None | | | | | |
| Wall - 1 | 192 ft² | 270 | 0 | 8* LW Block, 1* Ins | 0.24 | 0.90 | Single Clear 1/4* | 65 | 0.24 | 1.04 | Overhang - None | None | 1.00 | | | | |
| Partition - 1 | 50 ft² | | | 0.75* Gyp Frame | 0.39 | | | | | | | | Hourly C | | | | |
| Partition - 2 | 50 ft² | | | 0.75* Gyp Frame | 0.39 | | | | | | | | Hourly C | | | | |

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# ENTERED VALUES
## ROOM BY ROOM
By DFG

**Room Description: Bedroom #2 & Bath 2nd Floor** **Zone Description: Zone - 004** **System Description: System - 004**

### GENERAL INFORMATION

| | |
|---|---|
| Floor Area: | 357 ft² |
| Flr-Flr Height: | 9.0 ft |
| Plenum Height: | 2.0 ft |
| Floor Cnstr Type: | 4* LW Concrete |
| Room Mass: | None |
| Ceiling R-Value: | 1.786 hr·ft²·°F/Btu |
| Is There Carpet?: | YES |
| Design Clg DB: | 75.0 °F |
| Design Htg DB: | 68.0 °F |
| Design RH: | 50 % Height Above Floor: 0 ft |
| Floor Multiplier: | 1 Moisture Capacitance: None |
| Room Multiplier: | 1 Humidistat Location: Room |

### PEOPLE AND LIGHTS

| | |
|---|---|
| People Type: | None |
| # of People: | 1 People |
| People Sensible: | 250 Btu/h |
| People Latent : | 250 Btu/h |
| People Schedule: | Cooling Only (Design) |
| Lighting Type: | Fluorescent, hung below ceiling, 100% load to space |
| Fixture Type: | SUSFLUOR |
| % Load to RA: | 0 % |
| Lighting Schedule: | Cooling Only (Design) |
| Lighting Amount: | 100.0 W |
| Ballast Factor: | 1.0 |

### AIRFLOW INFORMATION

| | Cooling | Heating |
|---|---|---|
| Vent Type: | None | None |
| Vent Value: | 0.00 cfm | 0.00 cfm |
| Vent Schedule: | Available (100%) | |
| Infil Type: | Neutral, Average Const. | Neutral, Average Const. |
| Infil Value: | 0.50 air changes/hr | 0.50 air changes/hr |
| Infil Schedule: | Available (100%) | |
| Vav Min Airflow: | | |
| Vav Min Sched: | Available (100%) | |
| Supply: | To be calculated | To be calculated |
| Aux Supply: | To be calculated | To be calculated |
| Room Exhaust: | | |

### ROOM COMPONENTS

| Description | Area/ Amount | Dir | Tilt | Const Type/ Schedule | U Value Btu/h·ft²·°F | Alpha | Glass Type | Glass Area ft² | Glass Shade Coef | Glass U Value Btu/h·ft²·°F | Glass External Shading | Glass Internal Shading | Adj Temp/ Grnd Refl | Pct Sen/ Cool Tmp | Pct Rm/ Heat Tmp | Pct Ret/ Perm Len | Rad Frc/ Loss Coef |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Roof - 1 | 357 ft² | 0 | 90 | 1* Wood, 8* Ins | 0.03 | 0.90 | | 0 | | | Overhang - None | None | | | | | |
| Wall - 1 | 252 ft² | 90 | 0 | 8* LW Block, 1* Ins | 0.24 | 0.90 | Single Clear 1/4* | 65 | 0.24 | 1.04 | Overhang - None | None | 1.00 | | | | |
| Partition - 1 | 45 ft² | | | 0.75* Gyp Frame | 0.39 | | | | | | | | Hourly C | | | | |
| Partition - 3 | 45 ft² | | | 0.75* Gyp Frame | 0.39 | | | | | | | | Hourly C | | | | |
| Partition - 2 | 45 ft² | | | 0.75* Gyp Frame | 0.39 | | | | | | | | Hourly C | | | | |

**Room Description: Bedroom #3 2nd Floor** **Zone Description: Zone - 004** **System Description: System - 004**

### GENERAL INFORMATION

| | |
|---|---|
| Floor Area: | 410 ft² |
| Flr-Flr Height: | 9.0 ft |
| Plenum Height: | 2.0 ft |
| Floor Cnstr Type: | 4* LW Concrete |
| Room Mass: | None |
| Ceiling R-Value: | 1.786 hr·ft²·°F/Btu |
| Is There Carpet?: | YES |
| Design Clg DB: | 75.0 °F |
| Design Htg DB: | 68.0 °F |
| Design RH: | 50 % Height Above Floor: 0 ft |
| Floor Multiplier: | 1 Moisture Capacitance: None |
| Room Multiplier: | 1 Humidistat Location: Room |

### PEOPLE AND LIGHTS

| | |
|---|---|
| People Type: | None |
| # of People: | 1 People |
| People Sensible: | 250 Btu/h |
| People Latent : | 250 Btu/h |
| People Schedule: | Cooling Only (Design) |
| Lighting Type: | Fluorescent, hung below ceiling, 100% load to space |
| Fixture Type: | SUSFLUOR |
| % Load to RA: | 0 % |
| Lighting Schedule: | Cooling Only (Design) |
| Lighting Amount: | 100.0 W |
| Ballast Factor: | 1.0 |

### AIRFLOW INFORMATION

| | Cooling | Heating |
|---|---|---|
| Vent Type: | None | None |
| Vent Value: | 0.00 cfm | 0.00 cfm |
| Vent Schedule: | Available (100%) | |
| Infil Type: | Neutral, Average Const. | Neutral, Average Const. |
| Infil Value: | 0.50 air changes/hr | 0.50 air changes/hr |
| Infil Schedule: | Available (100%) | |
| Vav Min Airflow: | | |
| Vav Min Sched: | Available (100%) | |
| Supply: | To be calculated | To be calculated |
| Aux Supply: | To be calculated | To be calculated |
| Room Exhaust: | | |

### ROOM COMPONENTS

| Description | Area/ Amount | Dir | Tilt | Const Type/ Schedule | U Value Btu/h·ft²·°F | Alpha | Glass Type | Glass Area ft² | Glass Shade Coef | Glass U Value Btu/h·ft²·°F | Glass External Shading | Glass Internal Shading | Adj Temp/ Grnd Refl | Pct Sen/ Cool Tmp | Pct Rm/ Heat Tmp | Pct Ret/ Perm Len | Rad Frc/ Loss Coef |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Roof - 1 | 410 ft² | 0 | 90 | 1* Wood, 8* Ins | 0.03 | 0.90 | | 0 | | | Overhang - None | None | | | | | |
| Wall - 1 | 264 ft² | 0 | 0 | 8* LW Block, 1* Ins | 0.24 | 0.90 | Single Clear 1/4* | 54 | 0.24 | 1.04 | Overhang - None | None | 1.00 | | | | |
| Wall - 4 | 180 ft² | 270 | 0 | 8* LW Block, 1* Ins | 0.24 | 0.90 | | 0 | | | Overhang - None | None | 1.00 | | | | |
| Wall - 2 | 180 ft² | 90 | 0 | 8* LW Block, 1* Ins | 0.24 | 0.90 | Single Clear 1/4* | 65 | 0.24 | 1.04 | Overhang - None | None | 1.00 | | | | |
| Wall - 3 | 60 ft² | 90 | 0 | 8* LW Block, 1* Ins | 0.24 | 0.90 | Single Clear 1/4* | 9 | 0.24 | 1.04 | Overhang - None | None | 1.00 | | | | |
| Partition - 2 | 50 ft² | | | 0.75* Gyp Frame | 0.39 | | | | | | | | Hourly C | | | | |
| Partition - 1 | 50 ft² | | | 0.75* Gyp Frame | 0.39 | | | | | | | | Hourly C | | | | |

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# ENTERED VALUES
## ROOM BY ROOM
By DFG

**Room Description: Hallway 2nd** | **Zone Description: Zone - 004** | **System Description: System - 004**

### GENERAL INFORMATION

| | | | |
|---|---|---|---|
| Floor Area: | 245 ft² | | |
| Flr-Flr Height: | 9.0 ft | | |
| Plenum Height: | 2.0 ft | | |
| Floor Cnstr Type: | 4* LW Concrete | | |
| Room Mass: | None | | |
| Ceiling R-Value: | 1.786 hr·ft²·°F/Btu | | |
| Is There Carpet?: | YES | | |
| Design Clg DB: | 75.0 °F | | |
| Design Htg DB: | 68.0 °F | | |
| Design RH: | 50 % | Height Above Floor: | 0 ft |
| Floor Multiplier: | 1 | Moisture Capacitance: | None |
| Room Multiplier: | 1 | Humidistat Location: | Room |

### PEOPLE AND LIGHTS

| | |
|---|---|
| People Type: | None |
| # of People: | 1 People |
| People Sensible: | 250 Btu/h |
| People Latent : | 250 Btu/h |
| People Schedule: | Cooling Only (Design) |
| Lighting Type: | Fluorescent, hung below ceiling, 100% load to space |
| Fixture Type: | SUSFLUOR |
| % Load to RA: | 0 % |
| Lighting Schedule: | Cooling Only (Design) |
| Lighting Amount: | 100.0 W |
| Ballast Factor: | 1.0 |

### AIRFLOW INFORMATION

| | Cooling | Heating |
|---|---|---|
| Vent Type: | None | None |
| Vent Value: | 0.00 cfm | 0.00 cfm |
| Vent Schedule: | Available (100%) | |
| Infil Type: | Neutral, Average Const. | Neutral, Average Const. |
| Infil Value: | 0.50 air changes/hr | 0.50 air changes/hr |
| Infil Schedule: | Available (100%) | |
| Vav Min Airflow: | | |
| Vav Min Sched: | Available (100%) | |
| Supply: | To be calculated | To be calculated |
| Aux Supply: | To be calculated | To be calculated |
| Room Exhaust: | | |

### ROOM COMPONENTS

| Description | Area/ Amount | Dir | Tilt | Const Type/ Schedule | U Value Btu/h·ft²·°F | Alpha | Glass Type | Glass Area ft² | Glass Shade Coef | Glass U Value Btu/h·ft²·°F | Glass External Shading | Glass Internal Shading | Adj Temp/ Grnd Refl | Pct Sen/ Cool Tmp | Pct Rm/ Heat Tmp | Pct Ret/ Perm Len | Rad Frc/ Loss Coef |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Roof - 1 | 245 ft² | 0 | 90 | 1* Wood, 8* Ins | 0.03 | 0.90 | | 0 | | | Overhang - None | None | | | | | |
| Partition - 2 | 45 ft² | | | 0.75* Gyp Frame | 0.39 | | | | | | | | Hourly C | | | | |
| Partition - 1 | 45 ft² | | | 0.75* Gyp Frame | 0.39 | | | | | | | | Hourly C | | | | |

**Room Description: Lounge 2** | **Zone Description: Zone - 004** | **System Description: System - 004**

### GENERAL INFORMATION

| | | | |
|---|---|---|---|
| Floor Area: | 407 ft² | | |
| Flr-Flr Height: | 9.0 ft | | |
| Plenum Height: | 2.0 ft | | |
| Floor Cnstr Type: | 4* LW Concrete | | |
| Room Mass: | None | | |
| Ceiling R-Value: | 1.786 hr·ft²·°F/Btu | | |
| Is There Carpet?: | YES | | |
| Design Clg DB: | 75.0 °F | | |
| Design Htg DB: | 68.0 °F | | |
| Design RH: | 50 % | Height Above Floor: | 0 ft |
| Floor Multiplier: | 1 | Moisture Capacitance: | None |
| Room Multiplier: | 1 | Humidistat Location: | Room |

### PEOPLE AND LIGHTS

| | |
|---|---|
| People Type: | None |
| # of People: | 1 People |
| People Sensible: | 250 Btu/h |
| People Latent : | 250 Btu/h |
| People Schedule: | Cooling Only (Design) |
| Lighting Type: | Fluorescent, hung below ceiling, 100% load to space |
| Fixture Type: | SUSFLUOR |
| % Load to RA: | 0 % |
| Lighting Schedule: | Cooling Only (Design) |
| Lighting Amount: | 100.0 W |
| Ballast Factor: | 1.0 |

### AIRFLOW INFORMATION

| | Cooling | Heating |
|---|---|---|
| Vent Type: | None | None |
| Vent Value: | 0.00 cfm | 0.00 cfm |
| Vent Schedule: | Available (100%) | |
| Infil Type: | Neutral, Average Const. | Neutral, Average Const. |
| Infil Value: | 0.50 air changes/hr | 0.50 air changes/hr |
| Infil Schedule: | Available (100%) | |
| Vav Min Airflow: | | |
| Vav Min Sched: | Available (100%) | |
| Supply: | To be calculated | To be calculated |
| Aux Supply: | To be calculated | To be calculated |
| Room Exhaust: | | |

### ROOM COMPONENTS

| Description | Area/ Amount | Dir | Tilt | Const Type/ Schedule | U Value Btu/h·ft²·°F | Alpha | Glass Type | Glass Area ft² | Glass Shade Coef | Glass U Value Btu/h·ft²·°F | Glass External Shading | Glass Internal Shading | Adj Temp/ Grnd Refl | Pct Sen/ Cool Tmp | Pct Rm/ Heat Tmp | Pct Ret/ Perm Len | Rad Frc/ Loss Coef |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Roof - 1 | 407 ft² | 0 | 90 | 1* Wood, 8* Ins | 0.03 | 0.90 | | 0 | | | Overhang - None | None | | | | | |
| Wall - 1 | 194 ft² | 90 | 0 | 8* LW Block, 1* Ins | 0.24 | 0.90 | Single Coated 1/4* | 82 | 0.24 | 1.04 | Overhang - None | None | 1.00 | | | | |
| Partition - 2 | 45 ft² | | | 0.75* Gyp Frame | 0.39 | | | | | | | | Hourly C | | | | |
| Partition - 1 | 45 ft² | | | 0.75* Gyp Frame | 0.39 | | | | | | | | Hourly C | | | | |



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# ENTERED VALUES
## ROOM BY ROOM
By DFG

**Room Description: Open to below** **Zone Description: Zone - 004** **System Description: System - 004**

### GENERAL INFORMATION

| | |
|---|---|
| Floor Area: | 255 ft² |
| Flr-Flr Height: | 9.0 ft |
| Plenum Height: | 2.0 ft |
| Floor Cnstr Type: | 4* LW Concrete |
| Room Mass: | None |
| Ceiling R-Value: | 1.786 hr·ft²·°F/Btu |
| Is There Carpet?: | YES |
| Design Clg DB: | 75.0 °F |
| Design Htg DB: | 68.0 °F |
| Design RH: | 50 % |
| Height Above Floor: | 0 ft |
| Floor Multiplier: | 1 |
| Moisture Capacitance: | None |
| Room Multiplier: | 1 |
| Humidistat Location: | Room |

### PEOPLE AND LIGHTS

| | |
|---|---|
| People Type: | None |
| # of People: | 1 People |
| People Sensible: | 250 Btu/h |
| People Latent : | 250 Btu/h |
| People Schedule: | Cooling Only (Design) |
| Lighting Type: | Fluorescent, hung below ceiling, 100% load to space |
| Fixture Type: | SUSFLUOR |
| % Load to RA: | 0 % |
| Lighting Schedule: | Cooling Only (Design) |
| Lighting Amount: | 100.0 W |
| Ballast Factor: | 1.0 |

### AIRFLOW INFORMATION

| | Cooling | Heating |
|---|---|---|
| Vent Type: | None | None |
| Vent Value: | 0.00 cfm | 0.00 cfm |
| Vent Schedule: | Available (100%) | |
| Infil Type: | Neutral, Average Const. | Neutral, Average Const. |
| Infil Value: | 0.50 air changes/hr | 0.50 air changes/hr |
| Infil Schedule: | Available (100%) | |
| Vav Min Airflow: | | |
| Vav Min Sched: | Available (100%) | |
| Supply: | To be calculated | To be calculated |
| Aux Supply: | To be calculated | To be calculated |
| Room Exhaust: | | |

### ROOM COMPONENTS

| Description | Area/ Amount | Dir | Tilt | Const Type/ Schedule | U Value Btu/h·ft²·°F | Alpha | Glass Type | Glass Area ft² | Glass Shade Coef | Glass U Value Btu/h·ft²·°F | Glass External Shading | Glass Internal Shading | Adj Temp/ Grnd Refl | Pct Sen/ Cool Tmp | Pct Rm/ Heat Tmp | Pct Ret/ Perm Len | Rad Frc/ Loss Coef |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Roof - 1 | 255 ft² | 0 | 90 | 1* Wood, 8* Ins | 0.03 | 0.90 | | 0 | | | Overhang - None | None | | | | | |
| Wall - 1 | 204 ft² | 270 | 0 | 8* LW Block, 1* Ins | 0.24 | 0.90 | Single Coated 1/4* | 137 | 0.24 | 1.04 | Overhang - None | None | 1.00 | | | | |
| Partition - 1 | 50 ft² | | | 0.75* Gyp Frame | 0.39 | | | | | | | | Hourly C | | | | |
| Partition - 2 | 50 ft² | | | 0.75* Gyp Frame | 0.39 | | | | | | | | Hourly C | | | | |

**Room Description: Primary MAster Room Bath & WC** **Zone Description: Zone - 005** **System Description: System - 005**

### GENERAL INFORMATION

| | |
|---|---|
| Floor Area: | 1,126 ft² |
| Flr-Flr Height: | 9.0 ft |
| Plenum Height: | 2.0 ft |
| Floor Cnstr Type: | 4* LW Concrete |
| Room Mass: | None |
| Ceiling R-Value: | 1.786 hr·ft²·°F/Btu |
| Is There Carpet?: | YES |
| Design Clg DB: | 75.0 °F |
| Design Htg DB: | 68.0 °F |
| Design RH: | 50 % |
| Height Above Floor: | 0 ft |
| Floor Multiplier: | 1 |
| Moisture Capacitance: | None |
| Room Multiplier: | 1 |
| Humidistat Location: | Room |

### PEOPLE AND LIGHTS

| | |
|---|---|
| People Type: | None |
| # of People: | 1 People |
| People Sensible: | 250 Btu/h |
| People Latent : | 250 Btu/h |
| People Schedule: | Cooling Only (Design) |
| Lighting Type: | Fluorescent, hung below ceiling, 100% load to space |
| Fixture Type: | SUSFLUOR |
| % Load to RA: | 0 % |
| Lighting Schedule: | Cooling Only (Design) |
| Lighting Amount: | 100.0 W |
| Ballast Factor: | 1.0 |

### AIRFLOW INFORMATION

| | Cooling | Heating |
|---|---|---|
| Vent Type: | None | None |
| Vent Value: | 0.00 cfm | 0.00 cfm |
| Vent Schedule: | Available (100%) | |
| Infil Type: | Neutral, Average Const. | Neutral, Average Const. |
| Infil Value: | 0.50 air changes/hr | 0.50 air changes/hr |
| Infil Schedule: | Available (100%) | |
| Vav Min Airflow: | | |
| Vav Min Sched: | Available (100%) | |
| Supply: | To be calculated | To be calculated |
| Aux Supply: | To be calculated | To be calculated |
| Room Exhaust: | | |

### ROOM COMPONENTS

| Description | Area/ Amount | Dir | Tilt | Const Type/ Schedule | U Value Btu/h·ft²·°F | Alpha | Glass Type | Glass Area ft² | Glass Shade Coef | Glass U Value Btu/h·ft²·°F | Glass External Shading | Glass Internal Shading | Adj Temp/ Grnd Refl | Pct Sen/ Cool Tmp | Pct Rm/ Heat Tmp | Pct Ret/ Perm Len | Rad Frc/ Loss Coef |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Roof - 1 | 1,126 ft² | 0 | 90 | 1* Wood, 8* Ins | 0.03 | 0.90 | | 0 | | | Overhang - None | None | | | | | |
| Wall - 3 | 274 ft² | 270 | 0 | 8* LW Block, 1* Ins | 0.24 | 0.90 | Single Clear 1/4* | 73 | 0.24 | 1.04 | Overhang - 10Ft | None | 1.00 | | | | |
| Wall - 4 | 144 ft² | 0 | 0 | 8* LW Block, 1* Ins | 0.24 | 0.90 | | 0 | | | Overhang - 10Ft | None | 1.00 | | | | |
| Wall - 1 | 324 ft² | 90 | 0 | 8* LW Block, 1* Ins | 0.24 | 0.90 | Single Clear 1/4* | 82 | 0.24 | 1.04 | Overhang - None | None | 1.00 | | | | |
| Wall - 2 | 604 ft² | 180 | 0 | 8* LW Block, 1* Ins | 0.24 | 0.90 | Single Clear 1/4* | 91 | 0.24 | 1.04 | Overhang - None | None | 1.00 | | | | |
| Partition - 1 | 90 ft² | | | 0.75* Gyp Frame | 0.39 | | | | | | | | Hourly C | | | | |



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# ENTERED VALUES
## ROOM BY ROOM
By DFG

**Room Description: Guest Suite** **Zone Description: Zone - 006** **System Description: System - 006**

### GENERAL INFORMATION

| | |
|---|---|
| Floor Area: | 366 ft² |
| Flr-Flr Height: | 9.0 ft |
| Plenum Height: | 2.0 ft |
| Floor Cnstr Type: | 4* LW Concrete |
| Room Mass: | None |
| Ceiling R-Value: | 1.786 hr·ft²·°F/Btu |
| Is There Carpet?: | YES |
| Design Clg DB: | 75.0 °F |
| Design Htg DB: | 68.0 °F |
| Design RH: | 50 % |
| Height Above Floor: | 0 ft |
| Floor Multiplier: | 1 |
| Moisture Capacitance: | None |
| Room Multiplier: | 1 |
| Humidistat Location: | Room |

### PEOPLE AND LIGHTS

| | |
|---|---|
| People Type: | None |
| # of People: | 1 People |
| People Sensible: | 250 Btu/h |
| People Latent : | 250 Btu/h |
| People Schedule: | Cooling Only (Design) |
| Lighting Type: | Fluorescent, hung below ceiling, 100% load to space |
| Fixture Type: | SUSFLUOR |
| % Load to RA: | 0 % |
| Lighting Schedule: | Cooling Only (Design) |
| Lighting Amount: | 100.0 W |
| Ballast Factor: | 1.0 |

### AIRFLOW INFORMATION

| | Cooling | Heating |
|---|---|---|
| Vent Type: | None | None |
| Vent Value: | 0.00 cfm | 0.00 cfm |
| Vent Schedule: | Available (100%) | |
| Infil Type: | Neutral, Average Const. | Neutral, Average Const. |
| Infil Value: | 0.50 air changes/hr | 0.50 air changes/hr |
| Infil Schedule: | Available (100%) | |
| Vav Min Airflow: | | |
| Vav Min Sched: | Available (100%) | |
| Supply: | To be calculated | To be calculated |
| Aux Supply: | To be calculated | To be calculated |
| Room Exhaust: | | |

### ROOM COMPONENTS

| Description | Area/ Amount | Dir | Tilt | Const Type/ Schedule | U Value Btu/h·ft²·°F | Alpha | Glass Type | Glass Area ft² | Glass Shade Coef | Glass U Value Btu/h·ft²·°F | Glass External Shading | Glass Internal Shading | Adj Temp/ Grnd Refl | Pct Sen/ Cool Tmp | Pct Rm/ Heat Tmp | Pct Ret/ Perm Len | Rad Frc/ Loss Coef |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Roof - 1 | 366 ft² | 0 | 90 | 1* Wood, 8* Ins | 0.03 | 0.90 | | 0 | | | Overhang - None | None | | | | | |
| Wall - 4 | 204 ft² | 270 | 0 | 8* LW Block, 1* Ins | 0.24 | 0.90 | Single Clear 1/4* | 9 | 0.24 | 1.04 | Overhang - None | None | 1.00 | | | | |
| Wall - 3 | 252 ft² | 180 | 0 | 8* LW Block, 1* Ins | 0.24 | 0.90 | Single Clear 1/4* | 24 | 0.24 | 1.04 | Overhang - None | None | 1.00 | | | | |
| Wall - 2 | 187 ft² | 90 | 0 | 8* LW Block, 1* Ins | 0.24 | 0.90 | Single Clear 1/4* | 90 | 0.24 | 1.04 | Overhang - None | None | 1.00 | | | | |
| Wall - 1 | 252 ft² | 0 | 0 | 8* LW Block, 1* Ins | 0.24 | 0.90 | Single Clear 1/4* | 18 | 0.24 | 1.04 | Overhang - | None | 1.00 | | | | |
| Partition - 1 | 64 ft² | | | 0.75* Gyp Frame | 0.39 | | | | | | | | Hourly C | | | | |



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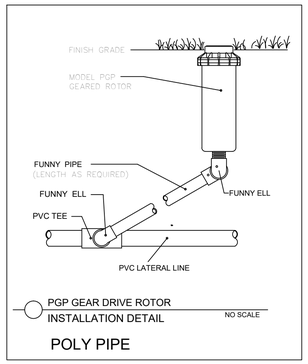
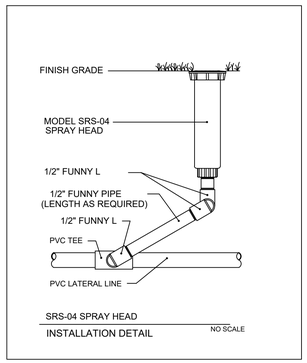
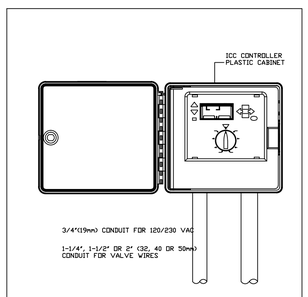



PGP GEAR DRIVE ROTOR
INSTALLATION DETAIL NO SCALE

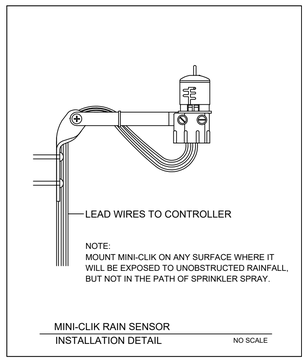
POLY PIPE




SRS-04 SPRAY HEAD
INSTALLATION DETAIL NO SCALE




CONTROLLER
INSTALLATION DETAIL
WALL MOUNTED NO SCALE




MINI-CLIK RAIN SENSOR
INSTALLATION DETAIL NO SCALE

## LAYOUT

LAYOUT IRRIGATION SYSTEM MAINLINES AND LATERAL LINES. MAKE ALL NECCESSARY ADJUSTMENTS AS REQUIRED TO TAKE INTO ACCOUNT ALL SITE OBSTRUCTIONS AND LIMTATIONS PRIOR TO EXCAVATING TRENCHES

FLAG ALL SPRINKLER HEAD LOCATIONS. ADJUST LOCATION AND MAKE THE NECESSARY MODIFICATIONS TO NOZZLE TYPES ETC. REQUIRED TO INSURE 100% COVERAGE.

## PIPE

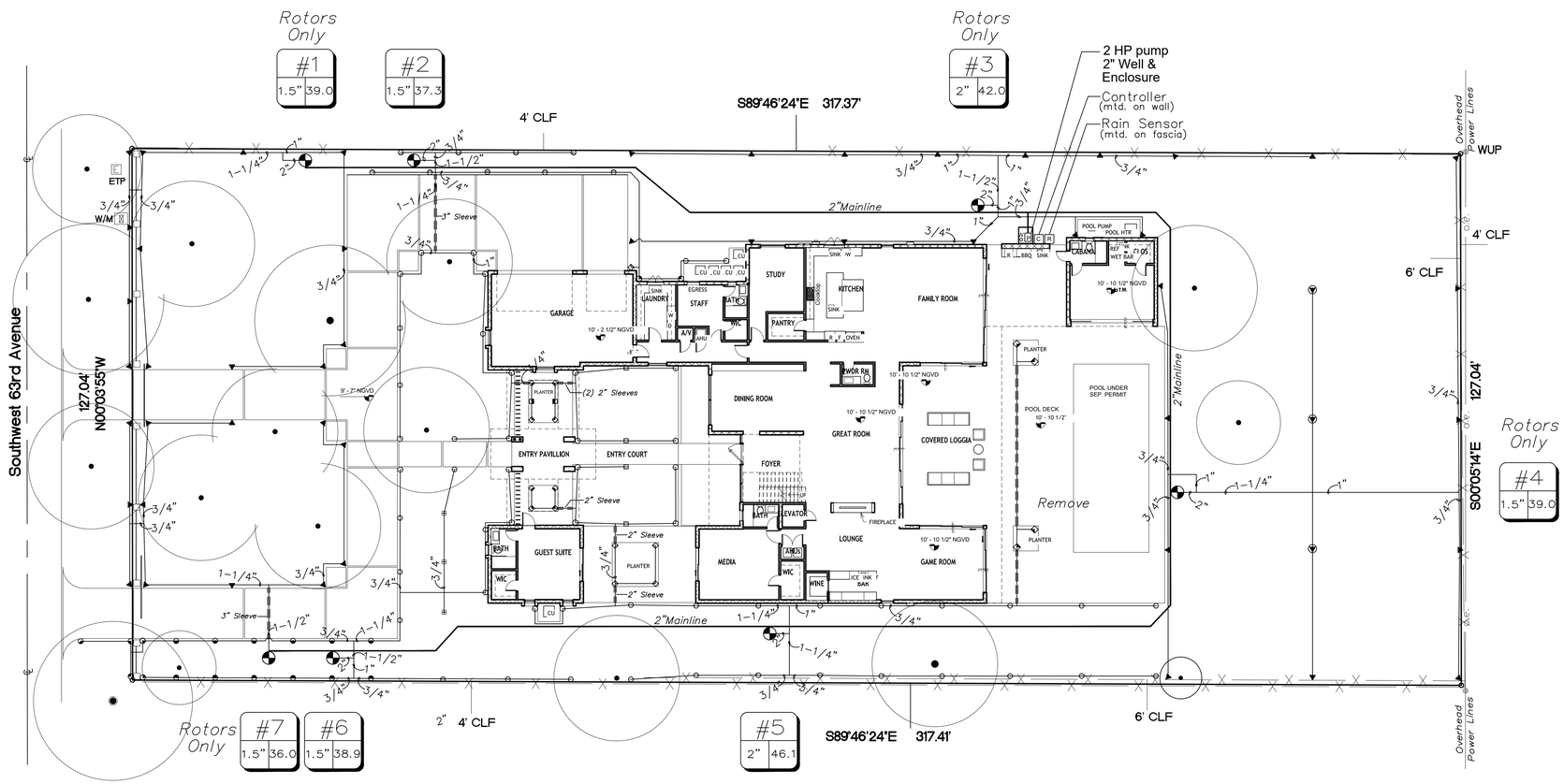
PIPE LOCATIONS SHOWN ON PLAN ARE SCHEMATIC ONLY AND SHALL BE ADJUSTED IN THE FIELD. WHEN LAYING-OUT MAINS AND LATRALS, LOCATE PIPE NEAR EDGES OF PAVEMENT OR AGAINST BUILDINGS WHENEVER POSSIBLE TO ALLOW SPACE FOR PLANT ROOT BALLS.
PIPING UNDER HARDSCAPES SUCH AS ROADS, WALKS, AND PATIOS ARE TO BE SLEEVED USING SCH. 40 PIPE.

IRRIGATION/SPRINKLER SYSTEMS AND RISERS FOR SPRAY HEADS SHALL NOT BE INSTALLED WITHIN 1 ft OF THE BUILDING SIDE WALL, (FBC p1b 318.1)

*INSTALL RAIN SENSOR AS PER CODE

## FLUSHING

PRIOR TO PLACEMENT OF HEADS FLUSH ALL LINES UNTIL LINES ARE COMPLETELY CLEAN OF DEBRIS.




## IRRIGATION PLAN EQUIPMENT TABLE

| | |
|---|---|
| | 6" Spray Head Rainbird 1800 Series w/ MPR Nozzle, 8' qtr. |
| | 6" Spray Head Rainbird 1800 Series w/ MPR Nozzle, 8' half. |
| | 6" Spray Head Rainbird 1800 Series w/ MPR Nozzle, 10' qtr. |
| | 6" Spray Head Rainbird 1800 Series w/ MPR Nozzle, 10' third. |
| | 6" Spray Head Rainbird 1800 Series w/ MPR Nozzle, 10' half. |
| | 6" Spray Head Rainbird 1800 Series w/ MPR Nozzle, 12' half. |
| | 6" Spray Head Rainbird 1800 Series w/ MPR Nozzle, 12' half. |
| | 6" Spray Head Rainbird 1800 Series w/ MPR Nozzle, 12' full. |
| | 6" Spray Head Rainbird 1800 Series w/ MPR Nozzle, 15' qtr. |
| | 6" Spray Head Rainbird 1800 Series w/ MPR Nozzle, 15' half. |
| | 6" Spray Head Rainbird 1800 Series w/ MPR Nozzle, 15' Strip Series-End |
| | 6" Spray Head Rainbird 1800 Series w/ MPR Nozzle, 15' Strip Series-Center |
| | Rotors-Rainbird 3500 Series w/ MPR Nozzle, full & adjustable |
| | 2" Mainline, Schedule 40 PVC |
| | (5) 1.5", (2) 2" Valves by Rainbird, in Carson Valve Box |
| | Sleeves, Schedule 40 PVC |
| | Lateral Lines, Schedule 160 pvc |
| C | Controller, ESP Modular Series 8 Stations (1 spare) |
| R | Rain Sensor, by Miniclik |
| P | 2HP Centrifugal Pump, GT-20, "GT-IRRI-GATOR", by Goulds. (w/Fiberglass Pump Enclosure by Allied or equal) |
| W | 2" diameter well |

1 IRRIGATION PLAN

SCALE: 1" = 16'-0"

N

L 101 Landscape Plan
L 102 Notes, Details, Legend
L 103 Tree Survey / Disposition Plan
L 104 Tree Disposition & Protection
IR 105 Irrigation Plan

# RESIDENCE: GS JPD 10635 LLC

10635 SW 63 AV
MIAMI, FL

SEAL


BALLI-TRAUTMAN ARCHITECTS LLC -AA26002

GIORGIO LUIGI BALLI -AR13951
DAVID SCOTT TRAUTMAN -AR15045


**REVISIONS**

| NO. | DESC | DATE |
|---|---|---|
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**SCHEDULE SET**

BALLI - TRAUTMA
ARCHITECTURE INTERIORS CONSTRUCTIO

| | |
|---|---|
| JOB NUMBER: | |
| CHECKED BY: | GE |
| ISSUE DATE: | 11/11/2024 |
| SCALE: | AS NOTED |

SHEET TITLE

IRRIGATION PLAN

SHEET NUMBER

IR 105


H.L. Martin, Landscape Architect, P.A.
LC# 26000404 LA #0001722
5965 SW 38th Street, Miami, Florida 33155
305 790-4372, hlmartinufl@bellsouth.net

Herbert L. Martin, Landscape Architect


Herbert L Martin Digitally signed by Herbert L Martin Date: 2024.11.18 17:54:55 -05'00'


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1533 SUNSET DRIVE SUITE 101, CORAL GABL
FL 33143



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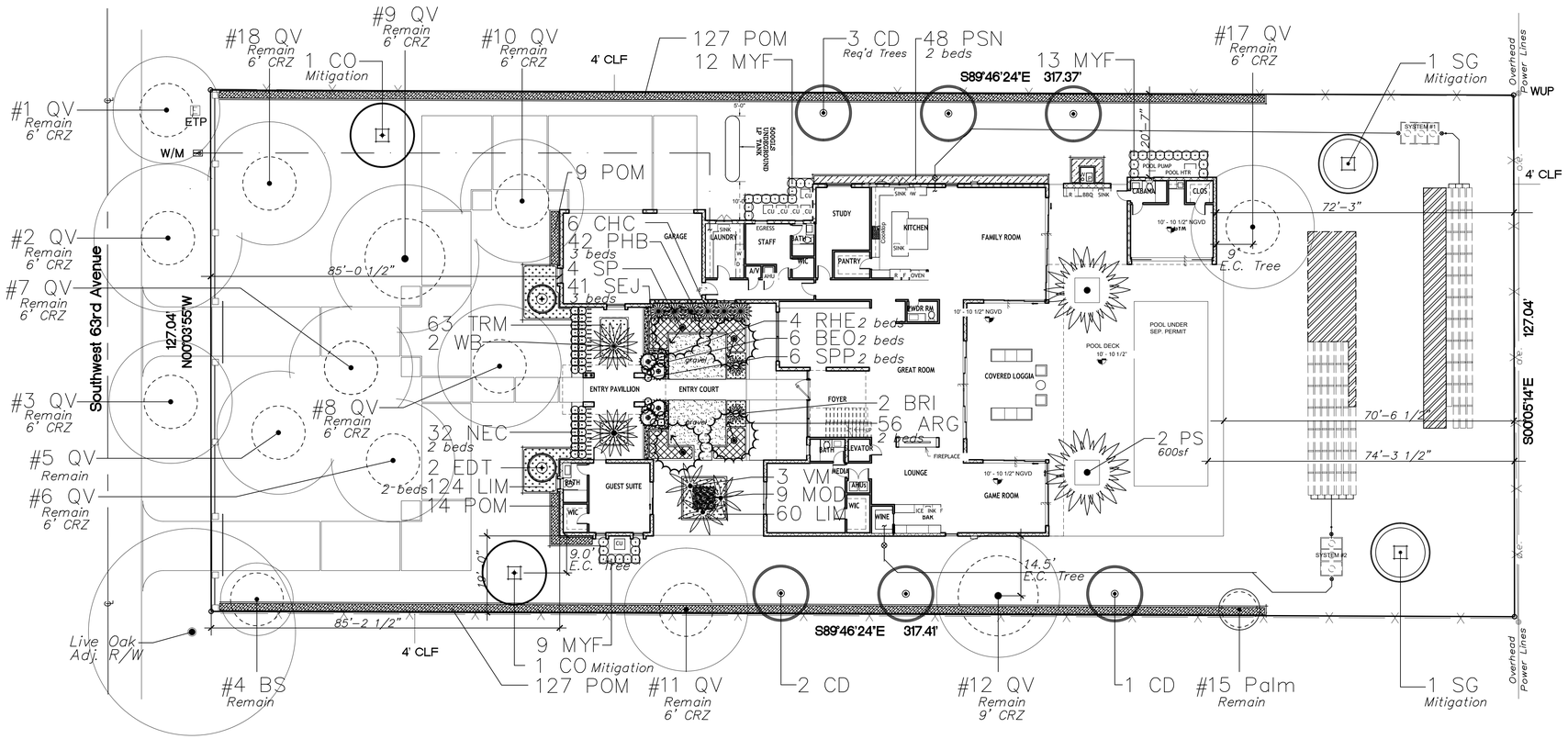


## Plant List

| QTY | KEY | Botanical / Commmon Name | Specification | Native | Category | Replacement Value |
|---|---|---|---|---|---|---|
| 6 | CD | Coccoloba diversifolia / Pigeon Plum | 12' oa ht, 3" cal, 4' CT FG #1 | Yes | *Req'd Trees* | |
| 2 | CO | Chrysophyllum oliviforme / Satinleaf | 14' oa ht, 4" cal, FG #1 | Yes | *Cat. 4 shade tree* | *500 sf. x 2 = 1,000 sf* |
| 2 | SG | Simaruba glauca / Paradise Tree | 14' oa ht, 4" cal, FG #1 | Yes | *Cat. 4 shade tree* | *500 sf. x 2 = 1,000 sf* |
| | | | | | | *Total Canopy Replacement= 2,000 sf 2,000 sf > 1,728 req'd* |
| *Req'd Shrubs:* | | | | | | |
| 277 | POM | Podocarpus macrophyllus / Podocarpus | 4' ht x 2' spr, 15 gal. | Yes | | |
| 34 | MYF | Myrcianthes fragrans / Simpson Stopper | 3-4' ht, 1.5' spr, 7 gal. | No | | |
| 48 | PSN | Psychotria nervosa / Wild Coffee | 2' ht, 1.5' spr, 3 gal. | Yes | | |
| *359 Prov'd Shrubs, 82 native* | | | | | | |
| *Additional palms, shrubs, accents, & groundcovers:* | | | | | | |
| 3 | VM | Veitchia montgomeriana / Veitchia Palm | 14',18',22', oa hts | No | | |
| 2 | WB | Wodyetia bifurcata / Foxtail Palm | 24' oa ht | No | | |
| 4 | SP | Sabal palmetto / S-Curve Sabal Palm | 18'-24' CT, S Curve Sabals | Yes | | |
| 2 | PS | Phoenix sylvestris / Sylvester Date Palm | 12' CT, 18' oa ht. | No | | |
| 2 | EDT | Elaeocarous decipiens / Japanese Blueberry | 8' oa ht, cane, topiary | No | | |
| 6 | CHC | Chamaedorea cataractarum / Cat Palm | 5' oa ht, 3' spr. | No | | |
| 4 | RHE | Rhapis excelsa / Lady Palm | 5' oa ht, 3' spr. | No | | |
| 32 | NEC | Neomarica caerulea / Giant Blue Apostles Iris | 36" ht, 24" spr, 7 gal. | No | | |
| 9 | MOD | Monstera deliciosa / Monstera | 24" ht, 24" spr, 7 gal. | No | | |
| 63 | TRM | Trimezia martinicensis / Yellow Walking iris | 24" ht, 18" spr, 3 gal. | No | | |
| 6 | BEO | Begonia odorata / White Begonia | 18" ht, 18" spr, 3 gal. | No | | |
| 42 | PHB | Philodendron Burle Marx / Burle Marx | 16" x 16" spr, 3 gal. | No | | |
| 2 | BRI | Bromeliad alcantarea / Imperialis | 24" ht, 24" spr, 7 gal. | No | | |
| 6 | SPP | Spathoglottis plicata / Purple Ground Orchids | 16" x 16" spr, 3 gal. | No | | |
| 41 | SEJ | Serrisa japonica / Cotoneaster | 12" ht, 12" spr, 3 gal. | No | | |
| 184 | LIM | Liriope muscarie, E.G. / Evergreen Giant Liriope | 8" ht, 8" spr, 1 gal. | No | | |
| 56 | ARG | Arachis glabrata / Perennial Peanut | 8" spr, 1 gal. | No | | |

1 LANDSCAPE PLAN

SCALE: 1" = 10'-0"

N

L 101 Landscape Plan
L 102 Notes, Details, Legend
L 103 Tree Survey / Disposition Plan
L-104 Tree Disposition & Protection
L-105 Irrigation Plan


H.L. Martin, Landscape Architect, P.A.
LC# 26000404 LA #0001722
5965 SW 38th Street, Miami, Florida 33155
305 790-4372, hlmartinfiu@bellsouth.net

Herbert L. Martin, Landscape Architect


Herbert L Martin Digitally signed by Herbert L Martin Date: 2024.11.18 17:52:38 -05'00'

# RESIDENCE: GS JPD 10635 LLC

10635 SW 63 AV
MIAMI, FL

SEAL


BALLI-TRAUTMAN ARCHITECTS LLC -AA2600

GIORGIO LUIGI BALLI -AR13951
DAVID SCOTT TRAUTMAN -AR15045


**REVISIONS**

| NO. | DESC | DATE |
|---|---|---|
| | | |

**SCHEMATIC SET**

BALLI - TRAUTMA
ARCHITECTURE INTERIORS CONSTRUCTIO

| | |
|---|---|
| JOB NUMBER: | |
| CHECKED BY: | GE |
| ISSUE DATE: | 11/11/2024 |
| SCALE: | AS NOTED |

SHEET TITLE

LANDSCAPE PLAN

SHEET NUMBER

L 101


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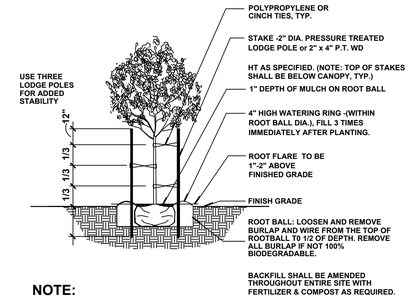
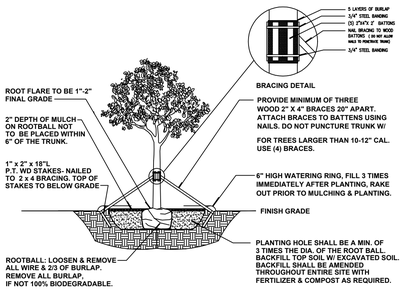


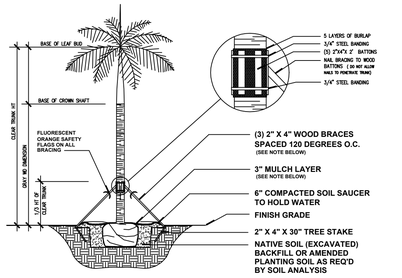

**NOTE:**

1. DO NOT APPLY MULCH WITHIN 6" OF THE TREE TRUNK

Tree Planting & Bracing Detail With A Caliper up to 2.5" N.T.S.



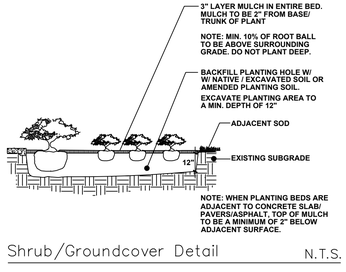

Tree Planting & Bracing Detail Caliper of 2.5" or Greater N.T.S.




**NOTES:**

1. PALMS OVER 30' GW HT, USE MINIMUM (4) 4" X 4" BRACING AND STAKES.
2. PRIMARY STAKES SHOULD BE PLACED PARALLEL TO WALKWAYS WHENEVER POSSIBLE.
3. RECEIVING PLANTING HOLE SHALL BE APPROXIMATELY 1/3 LARGER THAN ROOTBALL.
4. GROWING BUD SHALL BE PERPENDICULAR TO THE GROUND PLANE.
5. TRUNK SHALL BE STRAIGHT AND WITHOUT CURVES.
6. NO SCARRED OR BLACKENED TRUNKS.
7. AMENDED SOIL MIX, TO BE ADDED AT THE TIME OF PLANTING, IF NEEDED. SHALL CONSIST OF A RATIO MIX 80% CLEAN SILICA SAND AND 20% SCREENDED, PULVERIZED TOPSOIL AS NEEDED.
8. ANCHORING STAKES SHALL BE DRIVEN A MIN. OF 3" BELOW GRADE.

Typical Palm Planting Detail N.T.S.




Shrub/Groundcover Detail N.T.S.

## LANDSCAPE ARCHITECT'S PLANT / PLANTING NOTES

1. ALL PLANT MATERIAL TO BE FLORIDA GRADE NO. 1 (FG #1) OR BETTER FLORIDA DEPARTMENT OF AGRICULTURE GRADES AND STANDARDS; PARTS I AND II, 5th EDITION: 2015. RESPECTIVELY.
2. TWO MEETINGS, PRE-INSTALLATION & SUBSTANTIAL COMPLETION, SHALL BE REQ'D DURING INSTALLATION/CONSTRUCTION PROCESS. PRE-INSTALLATION MEETING SHALL BE SCHEDULED W/ LANDSCAPE ARCHITECT, TWO WEEKS PRIOR TO INSTALLATION.
3. A MUNICIPALLY APPROVED LANDSCAPE PLAN IS A LEGAL & BINDING DOCUMENT. NO CHANGES SHALL BE MADE WITHOUT PRIOR NOTIFICATION & SUBSEQUENT WRITTEN APPROVAL OF THE LANDSCAPE ARCHITECT & GOVERNING MUNICIPALITY. (IF REQ'D)
4. LANDSCAPE PLAN SHALL BE INSTALLED IN COMPLIANCE WITH ALL LOCAL/PERTINENT CODES.
5. LANDSCAPE CONTRACTOR SHALL REVIEW ALL DRAWINGS AND PREPARE ONES OWN QUANTITY COUNTS (PRIOR TO BID COST AND COMPARE TO ARCHITECT'S PLANT LIST). LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR ATTAINING ACCURATE COUNT OF PLANT MATERIALS SPECIFIED. IN THE EVENT OF DISCREPANCIES, LANDSCAPE CONTRACTOR SHALL BRING TO THE ATTENTION OF LANDSCAPE ARCHITECT. LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF THE LANDSCAPE PLAN. LANDSCAPE PLAN SHALL TAKE PRECEDENCE OVER PLANT LIST.
6. LANDSCAPE CONTRACTOR SHALL LOCATE AND VERIFY ALL UNDERGROUND UTILITIES PRIOR TO DIGGING, SUNSHINE STATE ONE CALL OF FLORIDA. (800) 432-4770.
7. ALL TREES TO BE STAKED IN A GOOD WORKMANLIKE MANNER, NO NAIL STAKING IN TRUNKS PERMITTED. ALL GUYING & STAKING TO BE REMOVED WITHIN 12 MONTHS AFTER PLANTING.
8. ALL PLANTING BEDS TO BE WEED AND GRASS FREE, AND SHALL BE EXCAVATED TO A DEPTH OF 12" BELOW GRADE. TOP OF BEDS SHALL BE 3" BELOW ADJ. PAVED SURFACES. ALL CONSTRUCTION DEBRIS SHALL BE REMOVED.
9. ALL INVASIVE EXOTIC PLANTS (CAT.1) TO BE REMOVED FROM SITE, PRIOR TO LANDSCAPE ARCHITECTS' FINAL INSPECTION. REFER TO FLORIDA EXOTIC PEST PLANT COUNCIL (FLEPPC) 2015 LIST OF EXOTIC PLANT SPECIES, CAT#1, ONLY.
10. ALL SOD SHALL BE ST. AUGUSTINE 'FLORATAM' SOLID SOD, (UNLESS OTHERWISE NOTED) AND LAID WITH ALTERNATING AND ABUTTING JOINTS. SOD SHALL BE LAID OVER A 2" LAYER OF TOPSOIL. LANDSCAPE CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT, PRIOR TO INSTALLATION.
11. MULCH SHALL BE EUCALYPTUS OR PINE BARK MULCH,(UNLESS OTHERWISE NOTED) APPLIED AT A MIN. DEPTH OF 3" OVER PLANTING BEDS. MULCH SHALL NOT APPLIED OVER ANNUAL PLANTING BEDS. MULCH SHALL NOT BE PLACED WITHIN 6" OF TREE & PALM TRUNKS. TOP OF MULCH SHALL NOT EXCEED HEIGHT OF ADJACENT PAVED SURFACES.
10. ALL PLANTED AREAS TO RECEIVE 100% COVERAGE BY AN AUTOMATIC IRRIGATION SYSTEM, WITH A MINIMUM OF 50% OVERLAP. RAIN SENSOR TO BE PROVIDED. IRRIGATION SYSTEM TO BE INSTALLED IN COMPLIANCE W/ FLORIDA BUILDING CODE, (FBC), LATEST EDITION. BUBBLERS SHALL BE INSTALLED ON ALL RELOCATED & INSTALLED TREES & PALMS TO AID IN THEIR ESTABLISHMENT. REFER TO LANDSCAPE PLAN.

## Village of Pinecrest, Florida
## LANDSCAPE LEGEND
10635 SW 63 AVE, Pinecrest, Florida, 33156

Zoning District: EU-1 Net Lot Area: 93 acres 40,101 s.f.

| OPEN SPACE | REQUIRED | PROVIDED |
|---|---|---|
| A. Square Feet of open space, as indicated on site plan: Net lot area= 40,322 s.f. x 55 %= square feet | 22,056 55% | 24,147 60.2% |
| B. Square Feet of parking lot open space, as indicated on site plan: No. parking spaces NA x 10 s.f. per parking space= | NA | NA |
| C. Total s.f. of landscaped open space: A + B= | 22,056 | 24,147 |
| LAWN AREA CALCULATION | | |
| A.Total square feet of landscaped open space: B. Maximum lawn area (sod) permitted= 35 % x 22,056 square feet= | 7,719 | 7,700 |
| TREES | | 11 ex. trees+ 6 Prop. (6 CD) |
| A. No. trees required per net lot acre EU-1 =18 per Acre (-Exist. trees to Remain) less existing number of trees meeting minimum requirements: = 18 trees x net lot acres ( 93 ) square feet= | 18 x .93= A. 17 (16.7) (12 ex. trees) | 17 Trees |
| B. 30 % palms allowed (two palms=one tree) Palms provided= | B. 5 (5.1) | 0 (palms additional) |
| C. Percentage of natives required= the number of trees provided x 30% = | C. 5 (5.1) | 17 |
| D. Street trees (max.avg. spacing of 30' o.c.): 127 linear feet along street/30 = | D. 4 (4.23) | 4 exist. |
| E. Street trees located directly beneath power lines: (max. avg.spacing of 25' o.c.): linear feet along street / 25 = | E. DNA | DNA |
| F. Total number of trees provided A+D/E= | F. 21 Req'd | 21 Prov'd |
| SHRUBS | | |
| A. The total number of trees required x 10 = the number of shrubs required @18' ht | A. 210 | 359 |
| B. The number of shrubs required x 30%= the number of native shrubs required | B. 63 | 82 |

IRRIGATION PLAN: Provided.

## Tree Survey List– Exist. Trees to Remain

| Num | Botanical / Commmon Name | Description HT | SPR | DBH | Condition | TPZ/CRZ 1' per 1" of DBH not less than 10.0 | Notes | Disposition |
|---|---|---|---|---|---|---|---|---|
| #1 QV | Quercus virginiana / Live Oak | 30' | 25' | 12" | Good | 6' | R/W Tree | Remain |
| #2 QV | Quercus virginiana / Live Oak | 35' | 35' | 12" | Good | 6' | R/W Tree | Remain |
| #3 QV | Quercus virginiana / Live Oak | 30' | 30' | 12" | Good | 6' | R/W Tree | Remain |
| #4 BS | Bursera simaruba / Gumbo Limbo | 25' | 18' | 12" | Good | 6' | | Remain |
| #5 QV | Quercus virginiana / Live Oak | 30' | 30' | 12" | Good | 6' | | Remain |
| #6 QV | Quercus virginiana / Live Oak | 30' | 30' | 12" | Good | 6' | | Remain |
| #7 QV | Quercus virginiana / Live Oak | 30' | 30' | 12" | Good | 6' | | Remain |
| #8 QV | Quercus virginiana / Live Oak | 30' | 30' | 12" | Good | 6' | | Remain |
| #9 QV | Quercus virginiana / Live Oak | 30' | 35' | 18" | Good | 9' | | Remain |
| #10 QV | Quercus virginiana / Live Oak | 35' | 30' | 12" | Good | 6' | | Remain |
| #11 QV | Quercus virginiana / Live Oak | 40' | 30' | 12" | Good | 6' | | Remain |
| #12 QV | Quercus virginiana / Live Oak | 30' | 30' | 18" | Good | 9' | | Remain |
| #15 | Palm | 30' | 10' | 8" | Good | 4' | | Remain |
| #17 QV | Quercus virginiana / Live Oak | 30' | 30' | 12" | Poor | 6' | | Remain |
| #18 QV | Quercus virginiana / Live Oak | 30' | 30' | 12" | Good | 6' | | Remain |
| #18 QV | Quercus virginiana / Live Oak | 30' | 30' | 12" | Good | 6' | | Remain |

## Plant List

| QTY | KEY | Botanical / Commmon Name | Specification | Native | Category | Replacement Value |
|---|---|---|---|---|---|---|
| 6 | CD | Coccoloba diversifolia / Pigeon Plum | 12' oa ht, 3" cal, 4' CT FG #1 | Yes | Req'd Trees | |
| 2 | CO | Chrysophyllum oliviforme / Satinleaf | 14' oa ht, 4" cal, FG #1 | Yes | Cat. 4 shade tree | 500 sf. x 2 = 1,000 sf |
| 2 | SG | Simaruba glauca / Paradise Tree | 14' oa ht, 4" cal, FG #1 | Yes | Cat. 4 shade tree | 500 sf. x 2 = 1,000 sf |
| | | | | | | Total Canopy Replacement= 2,000 sf 2,000 sf > 1,728 req'd |
| *Req'd Shrubs:* | | | | | | |
| 277 | POM | Podocarpus macrophyllus / Podocarpus | 4' ht x 2' spr, 15 gal. | Yes | | |
| 34 | MYF | Myrcianthes fragrans / Simpson Stopper | 3-4' ht, 1.5' spr, 7 gal. | No | | |
| 48 | PSN | Psychotria nervosa / Wild Coffee | 2' ht, 1.5' spr, 3 gal. | Yes | | |
| *359 Prov'd Shrubs, 82 native* | | | | | | |
| *Additional palms, shrubs, accents, & groundcovers:* | | | | | | |
| 3 | VM | Veitchia montgomeriana / Veitchia Palm | 14',18',22', oa hts | No | | |
| 2 | WB | Wodyetia bifurcata / Foxtail Palm | 24' oa ht | No | | |
| 4 | SP | Sabal palmetto / S-Curve Sabal Palm | 18'-24' CT, S Curve Sabals | Yes | | |
| 2 | PS | Phoenix sylvestris / Sylvester Date Palm | 12' CT, 18' oa ht. | No | | |
| 2 | EDT | Elaeocarous decipiens / Japanese Blueberry | 8' oa ht, cone, toplary | No | | |
| 6 | CHC | Chamaedorea cataractarum / Cat Palm | 5' oa ht, 3' spr. | No | | |
| 4 | RHE | Rhapis excelsa / Lady Palm | 5' oa ht, 3' spr. | No | | |
| 32 | NEC | Neomarica caerulea / Giant Blue Apostles Iris | 36" ht, 24" spr, 7 gal. | No | | |
| 9 | MOD | Monstera deliciosa / Monstera | 24" ht, 24" spr, 7 gal. | No | | |
| 63 | TRM | Trimezia martinicensis / Yellow Walking Iris | 24" ht, 18" spr, 3 gal. | No | | |
| 6 | BEO | Begonia odorata / White Begonia | 18" ht, 18" spr, 3 gal. | No | | |
| 42 | PHB | Philodendron Burle Marx / Burle Marx | 16" x 16" spr, 3 gal. | No | | |
| 2 | BRI | Bromeliad alcantarea / Imperialis | 24" ht, 24" spr, 7 gal. | No | | |
| 6 | SPP | Spathoglottis plicata / Purple Ground Orchids | 16" x 16" spr, 3 gal. | No | | |
| 41 | SEJ | Serrisa japonica / Cotoneaster | 12" ht, 12" spr, 3 gal. | No | | |
| 184 | LIM | Liriope muscarie, E.G. / Evergreen Giant Liriope | 8" ht, 8" spr, 1 gal. | No | | |
| 56 | ARG | Arachis glabrata / Perennial Peanut | 8" spr, 1 gal. | No | | |


H.L. Martin, Landscape Architect, P.A.
LC# 26000404 LA #0001722
5965 SW 38th Street, Miami, Florida 33155
305 790-4372, hlmartinufiu@bellsouth.net
Herbert L. Martin, Landscape Architect


Herbert L Martin — Digitally signed by Herbert L Martin Date: 2024.11.18 17:53:09 -05'00'

L 101 Landscape Plan
L 102 Notes, Details, Legend
L 103 Tree Survey / Disposition Plan
L 104 Tree Disposition & Protection
IR 105 Irrigation Plan

# RESIDENCE: GS JPD 10635 LLC

10635 SW 63 AV
MIAMI, FL

SEAL


BALLI-TRAUTMAN ARCHITECTS LLC -AA2600
GIORGIO LUIGI BALLI -AR13951
DAVID SCOTT TRAUTMAN -AR15045


**REVISIONS**

| NO. | DESC | DATE |
|---|---|---|
| | | |

**SCHEMATIC SET**

BALLI - TRAUTMA
ARCHITECTURE INTERIORS CONSTRUCTIO

| | |
|---|---|
| JOB NUMBER: | |
| CHECKED BY: | GE |
| ISSUE DATE: | 11/11/2024 |
| SCALE: | AS NOTED |

SHEET TITLE

LANDSCAPE PLAN

SHEET NUMBER

L 102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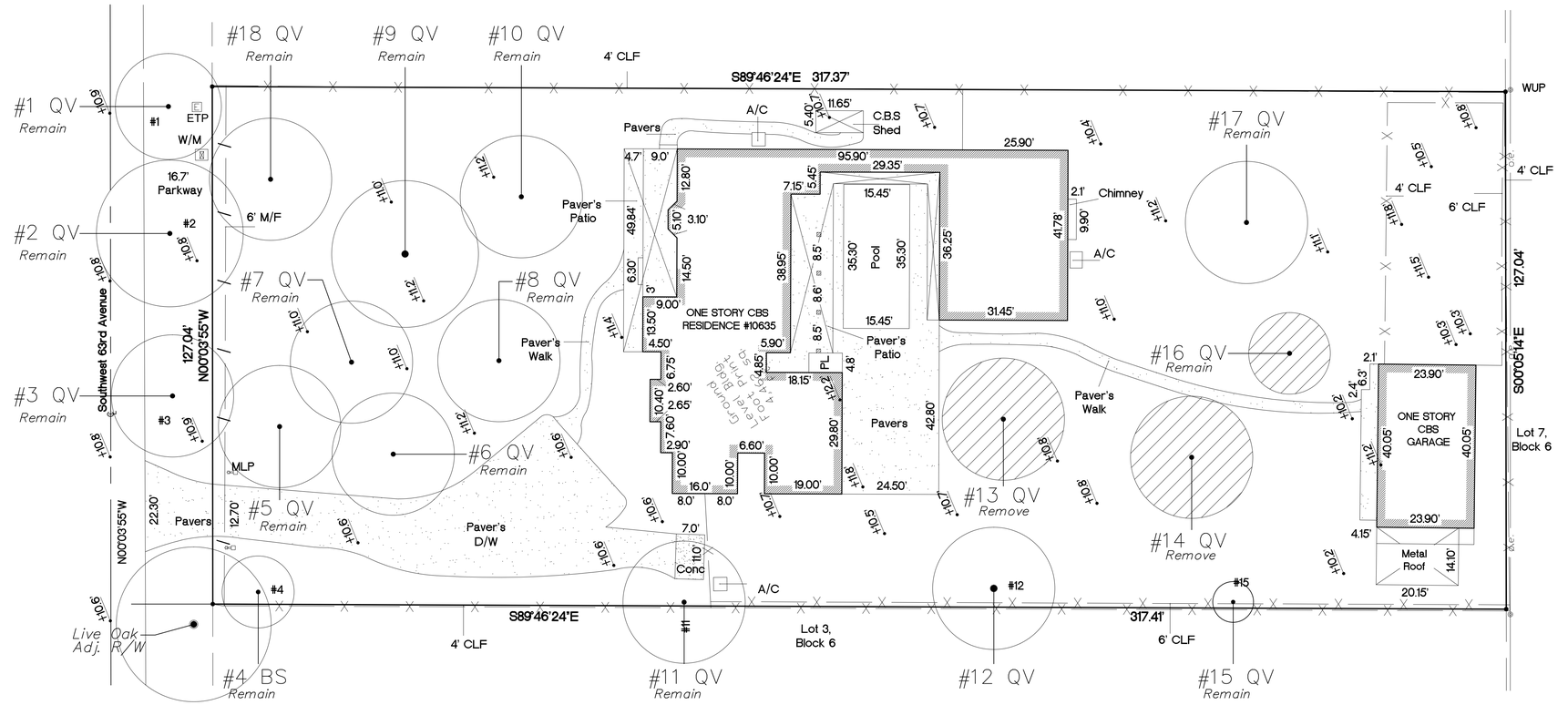


## Tree Survey List

| Num | Botanical / Commmon Name | Description HT | SPR | DBH | Condition | TPZ/CRZ 1" dbh = 1' of DBH min. Radii 6'min | Notes | Disposition | Explanation / Reason | Canopy SF To Be Removed | DBH > 18" (x 2) To Be Removed |
|---|---|---|---|---|---|---|---|---|---|---|---|
| #1 QV | Quercus virginiana / Live Oak | 30' | 25' | 12" | Good | 6' | R/W Tree | Remain | | | |
| #2 QV | Quercus virginiana / Live Oak | 35' | 35' | 12" | Good | 6' | R/W Tree | Remain | | | |
| #3 QV | Quercus virginiana / Live Oak | 30' | 30' | 12" | Good | 6' | R/W Tree | Remain | | | |
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| #11 QV | Quercus virginiana / Live Oak | 40' | 30' | 12" | Good | 6' | | Remain | | | |
| #12 QV | Quercus virginiana / Live Oak | 30' | 30' | 18" | Good | 9' | | Remain | | | |
| #13 QV | Quercus virginiana / Live Oak | 30' | 30' | 12" | Good | N/A | | –Remove– | building footprint | 707 sf | |
| #14 QV | Quercus virginiana / Live Oak | 30' | 30' | 12" | Good | N/A | | –Remove– | pool deck footprint | 707 sf | |
| #15 | Palm | 30' | 10' | 8" | Good | 4' | | Remain | | | |
| #16 QV | Quercus virginiana / Live Oak | 35' | 20' | 12" | Good | N/A | | –Remove– | drainfield footprint | 314 sf | |
| #17 QV | Quercus virginiana / Live Oak | 30' | 30' | 12" | Poor | 6' | | Remain | | | |
| #18 QV | Quercus virginiana / Live Oak | 30' | 30' | 12" | Good | 6' | | Remain | | | |

1,728 sf required

| Total Canopy to be Removed < 18" dbh | Specimen trees to be Removed > 18" dbh |
|---|---|
| 1,728 sf | 0 sf |

### Tree Survey Notes:

1) Tree Descriptions (ht, spr, dbh) are as per Survey prov'd to LA, dated 06.26.2024. by Suarez Surveying & Mapping, Inc. AFA & Company, Armando Alvarez, 06.26.2024.

Existing Tree / Palm to remain.
CRZ, (Critical Root Zone)
(dim. from face of trunk)

Existing Tree / Palm to be removed.

# 1 TREE SURVEY/ DISPOSITION PLAN

SCALE: 1" = 16'-0"

N


H.L. Martin, Landscape Architect, P.A.
LC# 26000404 LA #0001722
5965 SW 38th Street, Miami, Florida 33155
305 790-4372, hlmartinufiu@bellsouth.net
Herbert L. Martin, Landscape Architect


Herbert L Martin
Digitally signed by Herbert L Martin
Date: 2024.11.18 17:53:45 -05'00'

L 101 Landscape Plan
L 102 Notes, Details, Legend
L 103 Tree Survey / Disposition Plan
L 104 Tree Disposition & Protection
IR 105 Irrigation Plan

**RESIDENCE: GS JPD 10635 LLC**

10635 SW 63 AV
MIAMI, FL

SEAL


BALLI-TRAUTMAN ARCHITECTS LLC -AA2600
GIORGIO LUIGI BALLI -AR13951
DAVID SCOTT TRAUTMAN -AR15045


**REVISIONS**

| NO. | DESC | DATE |
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**SCHEMATIC SET**

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| CHECKED BY: | GE |
| ISSUE DATE: | 11/11/2024 |
| SCALE: | AS NOTED |

SHEET TITLE

TREE SURVEY/ DISPOSITION PLAN

SHEET NUMBER

L 103


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FL 33143



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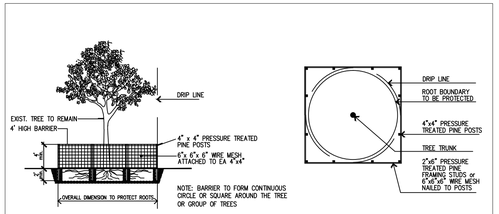



WIRE MESH BARRIER DETAIL



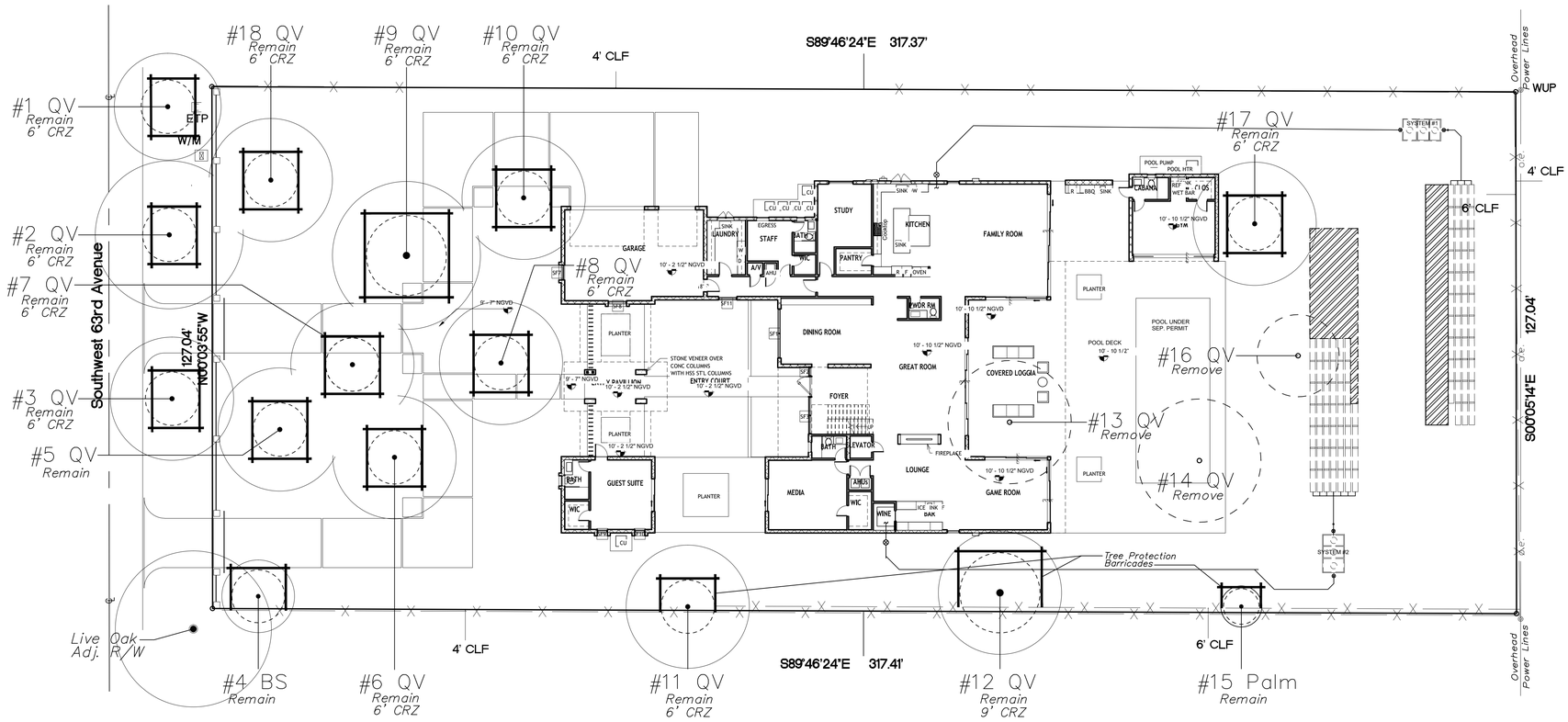

WOOD BARRIER DETAIL PLAN

## TREE PROTECTION BARRIER DETAIL

N.T.S.

*Notes:*

1) *Tree Protection Barriers dimensions are measured from the center line of the trunk. (as per Arborist's Report)*
2) *Tree Protection Barriers are adjusted where necessary to account for buildings, adjacent sidewalks, & street/curb.*
3) *No disturbance to soil or disposal of any building material/waste is permitted within the tree protection zone.*
4) *Barriers to remain in place throughout the duration of construction or demolition activities.*
5) *Barriers to be attached to existing CLF's, WD fences or concrete walls where applicable.*




## Tree Survey List

| Num | Botanical / Commmon Name | Description HT | SPR | DBH | Condition | TPZ/CRZ (dbh x 6" min. 6' max. 12') | Notes | Disposition | Explanation / Reason | Canopy SF To Be Removed | DBH > 18" (x 2) To Be Removed |
|---|---|---|---|---|---|---|---|---|---|---|---|
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*1,728 sf required*

| *Total Canopy to be Removed < 18" dbh* | *Specimen trees to be Removed > 18" dbh* |
|---|---|
| *1,728 sf* | *0 sf* |

### Tree Survey Notes:

1) Tree Descriptions (ht, spr, dbh) are as per Survey prov'd to LA, dated 06.26.2024. by Suarez Surveying & Mapping, Inc. AFA & Company, Armando Alvarez, 06.26.2024.

Existing Tree / Palm to remain. CRZ, (Critical Root Zone) (dim. from face of trunk)

Existing Tree / Palm to be removed.

# 1 TREE DISPOSITION & PROTECTION PLAN

SCALE: 1" = 16'-0"

N

**RESIDENCE: GS JPD 10635 LLC**

10635 SW 63 AV
MIAMI, FL

SEAL


BALLI-TRAUTMAN ARCHITECTS LLC -AA2600

GIORGIO LUIGI BALLI -AR13951
DAVID SCOTT TRAUTMAN -AR15045


**REVISIONS**

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| JOB NUMBER: | |
| CHECKED BY: | GE |
| ISSUE DATE: | 11/11/2024 |
| SCALE: | AS NOTED |

SHEET TITLE

TREE DISPOSITION & PROTECTION PLAN

SHEET NUMBER

L 104


H.L. Martin, Landscape Architect, P.A.
LC# 26000404 LA #0001722
5965 SW 38th Street, Miami, Florida 33155
305 790–4372, hlmartinufiu@bellsouth.net

Herbert L. Martin, Landscape Architect


Herbert L Martin
Digitally signed by Herbert L Martin
Date: 2024.11.18 17:54:22 -05'00'

L 101 Landscape Plan
L 102 Notes, Details, Legend
L 103 Tree Survey / Disposition Plan
L 104 Tree Disposition & Protection
IR 105 Irrigation Plan


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# MIAMI-DADE COUNTY

## DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES

**http://www.miamidade.gov/building/home.asp**

**6/27/2025 8:28:53 AM**

| Tracking # | Process # | Permit # |
|---|---|---|
| 2025004680 | M2025004680 | 2025054612 |

**THIS COPY OF PLANS MUST BE AVAILABLE ON BUILDING SITE OR AN INSPECTION WILL NOT BE MADE.**

| Process # | Review | Disposition | Reviewer | Date |
|---|---|---|---|---|
| M2025004680 | DEPT OF HEALTH | A | VALDIVIESO, JOSE | 6/26/2025 |
| M2025004680 | DERM CORE | A | DEBASA, JOSE | 1/15/2025 |
| M2025004680 | DERM ONSITE SEWAGE TREATMENT & DISPOSAL SYSTEMS | A | HERNANDEZ ACOSTA, JESUS | 3/14/2025 |
| M2025004680 | DERM PAVING & DRAINAGE | A | DE TORRES, MAYRA | 3/16/2025 |
| M2025004680 | IMPACT FEES | A | INTERNET IMPACT FEES (IFS) | 12/12/2024 |
| M2025004680 | UPFRONT FEES | A | WEB APPLICATION ID | 12/9/2024 |
| M2025004680 | WASA | A | CHICA, HAROLD | 1/13/2025 |

**Disclaimer.**

Subject to compliance with all Federal, State, and County Laws, rules and regulations. Miami-Dade County assumes no responsibility for accuracy of or results of these plans.

**NOTICE: In addition to the requirements of this permit, there may be additional restrictions applicable to the property that may be found in the public records of this county, and there may be additional permits required from other governmental entities such as water management districts, state agencies or federal agencies.**

| Stamp Name | Trade | Disposition | Stamp Description |
|---|---|---|---|
| Approved | DERM | A | Approved |
| Approved | HRS | A | Approved |
| Approved | OTDS | A | Approved |
| Void | OTDS | V | Void |

# DG CONSULTING ENGINEERS, LLC

March 11, 2025

Miami Building Department
Plumbing
Miami, Florida

Re: 10635 SW 63 AV
Miami, Florida

To whom it may concern:

The following are the responses for the above referenced Plumbing permit plan reviewer comments.

Plumbing
Comment #1: Provide a new system Application (Form DEP 4015 page 1of 4),…
Response: Application form will be submitted.
Comment #2: Review OSTDS calculations. Total building area is…
Response: Please see sheet ST-101, OSTDS calculations revised.

Should you have any questions or require additional information please contact me at the address or phone below.

Sincerely,

Daniel F. Gutierrez, P.E.

**29111 Kinsington Court Wesley Chapel, FL 33544**
**TEL: 786-499-4167**
**E-MAIL: dgutierrez@dgengineers.com**

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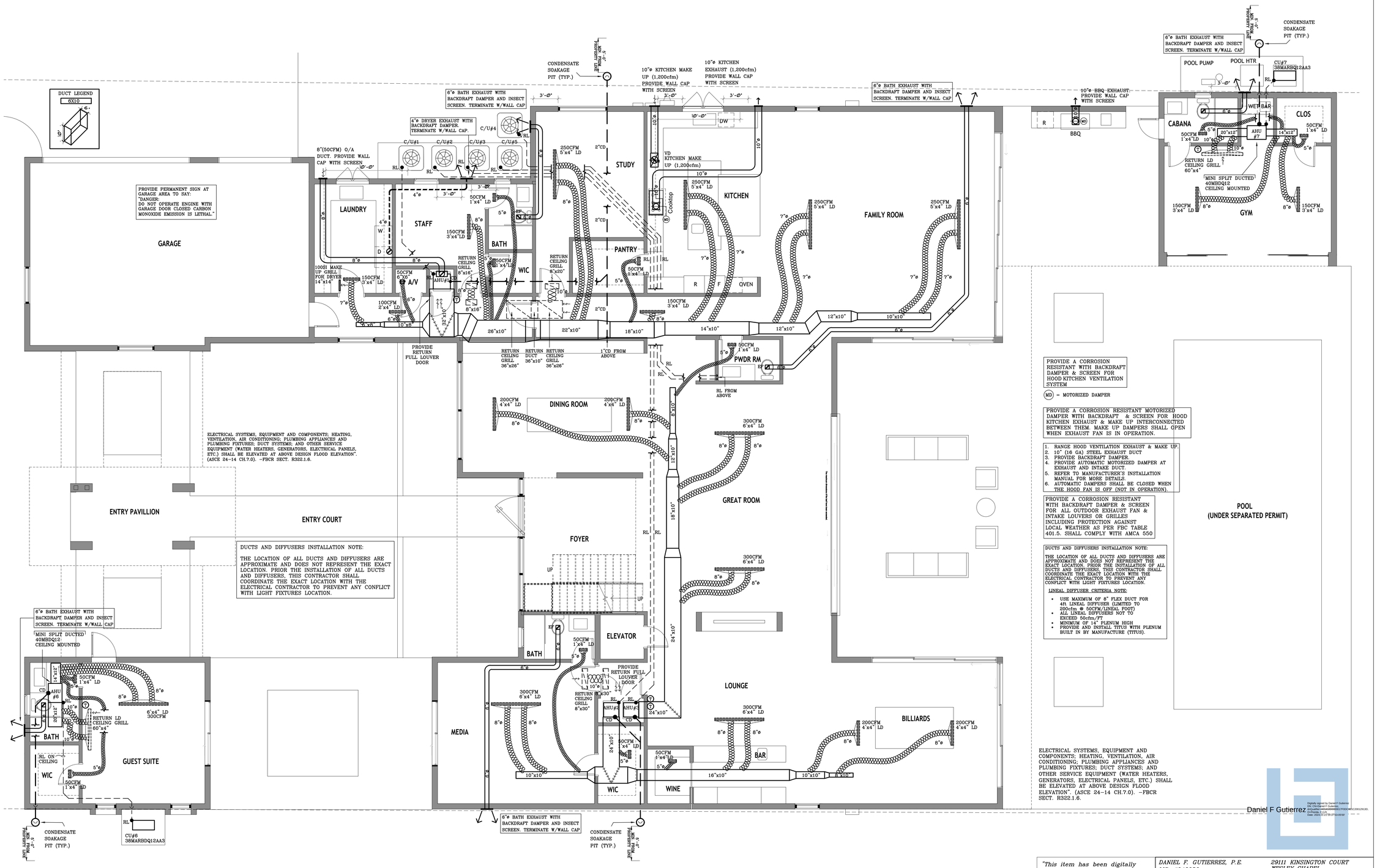


MECHANICAL 1ST FLOOR PLAN
SCALE: 3/16"=1'-0"

"This item has been digitally signed and sealed by Daniel F. Gutierrez on the date adjacent to the seal. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies"


DANIEL F. GUTIERREZ, P.E.
LIC. #049086

29111 KINSINGTON COURT
WESLEY CHAPEL
PH:(786)499-4167
Email:danny@dfgengineers.com

DG CONSULTING ENGINEERS, LLC
DESIGN — INSPECTIONS


Daniel F Gutierrez
Digitally signed by Daniel F Gutierrez
DN: CN=Daniel F Gutierrez, C=US, E=danny@dfgengineers.com, O=Florida, OU=Florida
Date: 2024.11.13 13:27:53-05'00'

**NEW RESIDENCE**

# GS JPD 10635 LLC

10635 SW 63 AV
MIAMI, FL

SEAL

DANIEL F. GUTIERREZ LICENSE No. 49086 STATE OF FLORIDA PROFESSIONAL ENGINEER

11-13-24

DANIEL F. GUTIERREZ, P.E.
ELECTRICAL ENGINEER LIC. #049086

**REVISIONS**

| NO. | DESC | DATE |
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**SCHEMATIC SET**

SEAL

BALLI - TRAUTMAN
ARCHITECTURE INTERIORS CONSTRUCTION

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CHECKED BY: GB
ISSUE DATE: Issue Date
SCALE: AS NOTED

SHEET TITLE

MECHANICAL 1ST FLOOR PLAN

SHEET NUMBER

M-101


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## UNVENTED ATTIC NOTE:

FBC2023-R806.5/1203.3 UNVENTED ATTIC AND UNVENTED ENCLOSED RAFTER ASSEMBLIES.

UNVENTED ATTICS AND UNVENTED ENCLOSED ROOF FRAMING ASSEMBLIES CREATED BY CEILINGS THAT ARE APPLIED DIRECTLY TO THE UNDERSIDE OF THE ROOF FRAMING MEMBERS AND STRUCTURAL ROOF SHEATHING APPLIED DIRECTLY TO THE TOP OF THE ROOF FRAMING MEMBERS/RAFTERS, SHALL BE PERMITTED WHERE ALL THE FOLLOWING CONDITIONS ARE MET:

1.THE UNVENTED ATTIC SPACE IS COMPLETELY WITHIN THE BUILDING THERMAL ENVELOPE.

2.NO INTERIOR CLASS I VAPOR RETARDERS ARE INSTALLED ON THE CEILING SIDE (ATTIC FLOOR) OF THE UNVENTED ATTIC ASSEMBLY OR ON THE CEILING SIDE OF THE UNVENTED ENCLOSED ROOF FRAMING ASSEMBLY.

3.WHERE WOOD SHINGLES OR SHAKES ARE USED, A MINIMUM 1/4-INCH (6.4 MM) VENTED AIRSPACE SEPARATES THE SHINGLES OR SHAKES AND THE ROOFING UNDERLAYMENT ABOVE THE STRUCTURAL SHEATHING.

4.IN CLIMATE ZONES 5, 6, 7 AND 8, ANY AIR-IMPERMEABLE INSULATION SHALL BE A CLASS II VAPOR RETARDER, OR SHALL HAVE A CLASS II VAPOR RETARDER COATING OR COVERING IN DIRECT CONTACT WITH THE UNDERSIDE OF THE INSULATION.

5.INSULATION SHALL COMPLY WITH ITEM 5.3 AND ITEM 5.1, AS AN ALTERNATIVE, WHERE AIR-PERMEABLE INSULATION IS LOCATED ON TOP OF THE ATTIC FLOOR OR ON TOP OF THE ATTIC CEILING, INSULATION SHALL COMPLY WITH ITEM 5.3 AND ITEM 5.2.

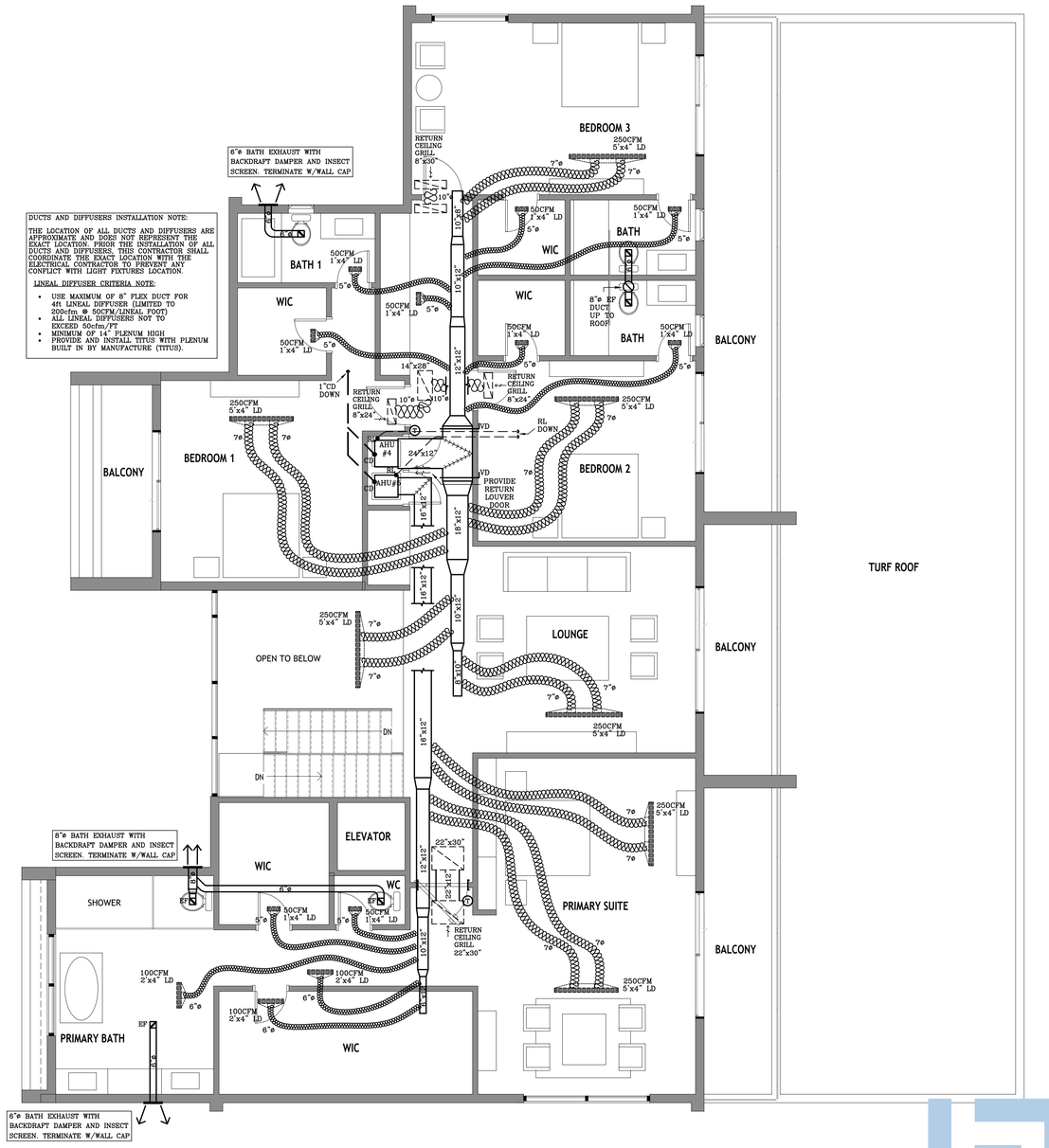
5.1.ITEM 5.1.1, 5.1.2, 5.1.3 OR 5.1.4 SHALL BE MET, DEPENDING ON THE AIR PERMEABILITY OF THE INSULATION DIRECTLY UNDER THE STRUCTURAL ROOF SHEATHING.

5.1.1.WHERE ONLY AIR-IMPERMEABLE INSULATION IS PROVIDED, IT SHALL BE APPLIED IN DIRECT CONTACT WITH THE UNDERSIDE OF THE STRUCTURAL ROOF SHEATHING.

5.1.2.WHERE AIR-PERMEABLE INSULATION IS PROVIDED INSIDE THE BUILDING THERMAL ENVELOPE, IT SHALL BE INSTALLED IN ACCORDANCE WITH SECTION 5.1.1. IN ADDITION TO THE AIR-PERMEABLE INSULATION INSTALLED DIRECTLY BELOW THE STRUCTURAL SHEATHING, RIGID BOARD OR SHEET INSULATION SHALL BE INSTALLED DIRECTLY ABOVE THE STRUCTURAL ROOF SHEATHING IN ACCORDANCE WITH THE R-VALUES IN TABLE R806.5 FOR CONDENSATION CONTROL.

5.1.3.WHERE BOTH AIR-IMPERMEABLE AND AIR-PERMEABLE INSULATION ARE PROVIDED, THE AIR-IMPERMEABLE INSULATION SHALL BE APPLIED IN DIRECT CONTACT WITH THE UNDERSIDE OF THE STRUCTURAL ROOF SHEATHING IN ACCORDANCE WITH ITEM 5.1.1 AND SHALL BE IN ACCORDANCE WITH THE R-VALUES IN TABLE R806.5 FOR CONDENSATION CONTROL. THE AIR-PERMEABLE INSULATION SHALL BE INSTALLED DIRECTLY UNDER THE AIR-IMPERMEABLE INSULATION.

5.1.4.ALTERNATIVELY, SUFFICIENT RIGID BOARD OR SHEET INSULATION SHALL BE INSTALLED DIRECTLY ABOVE THE STRUCTURAL ROOF SHEATHING TO MAINTAIN THE MONTHLY AVERAGE TEMPERATURE OF THE UNDERSIDE OF THE STRUCTURAL ROOF SHEATHING ABOVE 45°F (7°C). FOR CALCULATION PURPOSES, AN INTERIOR AIR TEMPERATURE OF 68°F (20°C) IS ASSUMED AND THE EXTERIOR AIR TEMPERATURE IS ASSUMED TO BE THE MONTHLY AVERAGE OUTSIDE AIR TEMPERATURE OF THE THREE COLDEST MONTHS.

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MECHANICAL 2ND FLOOR PLAN
SCALE: 3/16"=1'-0"

Daniel F Gutierrez
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Date: 2024.11.21 19:38:22-05'00'

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*DESIGN — INSPECTIONS*


**NEW RESIDENCE**

# GS JPD 10635 LLC

10635 SW 63 AV
MIAMI, FL

SEAL

DANIEL F. GUTIERREZ LICENSE No. 49086 STATE OF FLORIDA PROFESSIONAL ENGINEER

11-13-24


DANIEL F. GUTIERREZ, P.E.
ELECTRICAL ENGINEER LIC. #049086


**REVISIONS**

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**SCHEMATIC SET**

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BALLI - TRAUTMAN
ARCHITECTURE INTERIORS CONSTRUCTION

JOB NUMBER:
CHECKED BY: GB
ISSUE DATE: Issue Date
SCALE: AS NOTED

SHEET TITLE

## MECHANICAL 2ND FLOOR PLAN

SHEET NUMBER

# M-102


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1533 SUNSET DRIVE SUITE 101, CORAL GABLES, FL 33143



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## HEATING–VENTILATING & AIR CONDITIONING NOTES AND SPECIFICATIONS

1– PROVIDE AND INSTALL A COMPLETE AIR CONDITIONING SYSTEM AS SHOW ON PLANS WITH WORKMANSHIP TO MEET OR EXCEED ALL LOCAL CITY CODES. OR 2023 FBC (8TH EDITION) CODES WHICHEVER APPLIES, AND INCLUDING THE LATEST EDITION OF THE FLORIDA STATE ENERGY CODE REQUIREMENTS SUPERSEDE ALL OF THE FOLLOWING.

2– ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST ISSUE OF 2012 NFPA 90A, 90B, 2011 NFPA 70 SMACNA MANUALS.

3– IT IS NOT THE INTENT OF THESE PLANS TO SHOW EVERY DETAILS OF CONSTRUCTION. CONTRACTOR IS EXPECTED TO PROVIDE ALL ITEMS THAT ARE REQUIRED FOR A COMPLETE AND WORKABLE HVAC SYSTEM TO THE EXTEND TO WHICH THE PLANS INDICATE. IT IS THE CONTRACTOR RESPONSIBILITY TO FURNISH ALL NECESSARY LABOR, MATERIALS AND MISCELLANEOUS ITEMS TO PLACE ALL EQUIPMENT IN PROPER WORKING ORDER.

4– CONTRACTOR SHALL EXAM THE PLANS AND SPECIFICATIONS OF ALL TRADES FOR PARTS OF WORK. IF ANY DISCREPANCIES EXIST BETWEEN DRAWINGS FOR HIS WORK AND OR WORK OF OTHER TRADES, HE SHALL REPORT SUCH DISCREPANCIES TO THE ENGINEER AND OBTAIN WRITTEN INSTRUCTION FOR ANY CHANGES IN WORK COVERED BY THESE PLANS AND SPECIFICATIONS. NEGLECT OR FAILURE OF CONTRACTOR TO REPORT SUCH DISCREPANCIES TO THE ENGINEER PRIOR TO BIDDING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

5– CONTRACTOR SHALL PROVIDE ALL FEES, PERMITS AND INSURANCE AND SUBMIT TO THE OWNER AN UNCONDITIONAL WRITTEN GUARANTEE FOR THE REPAIR OR REPLACEMENT OF DEFECTIVE WORKMANSHIP AND MATERIALS PROVIDED UNDER THIS CONTRACT FOR A PERIOD OF ONE YEAR AFTER THE DATE OF ACCEPTANCE BY THE OWNER.

6– CONTRACTOR SHALL SUBMIT TO THE OWNER THE FOLLOWING SHOP DRAWINGS AND PRODUCT DATA PRIOR TO ORDERING OR COMMENCING WITH THE WORK:

- A– DUCT MATERIALS AND ACCESSORIES
- B– DIFFUSERS, GRILLS AND REGISTERS.
- C– FIRE DAMPERS.
- D– ALL EQUIPMENT SUCH AS A.H.U., C.U., FANS, VAV'S, THERMOSTATS ETC.

7– THE FIVE YEAR FACTORY WARRANTY OF THE COMPRESSOR MOTORS SHALL BE FILLED OUT IN THE NAME OF THE OWNER. THIS CONTRACTOR SHALL ALSO FURNISH TO THE OWNER ALL CERTIFICATES OF FINAL INSPECTIONS AND APPROVAL FROM THE INSPECTION AUTHORITIES HAVING JURISDICTION. THE INSTALLATION ACCEPTANCE FORMAT WHICH ACCOMPANIES THE EQUIPMENT FROM THE FACTORY SHALL BE FILLED OUT AND FURNISHED TO THE OWNER.

8– THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING THE NECESSARY CONDENSATE DRAIN LINE FROM THE APPARATUS TO THE EXTERIOR OF THE BUILDING WHETHER SHOWN ON PLANS. UTILIZE PVC OR COPPER MATERIAL DEPENDING THE CEILING FIRE RATING OR THE USE OF A RETURN AIR PLENUM, CONSULT LOCAL CODE REQUIREMENTS. CONDENSATE DRAIN PIPING SHALL BE INSULATED WITH FIRE RESISTIVE 3/4" THICK FOAM PLASTIC INSULATION.

9– WHERE CALLED FOR ON PLANS OR THE USE OF FIBERGLASS IS APPROVED BY LOCAL CODE REQUIREMENTS, FIBERGLASS DUCT SHALL BE 1 1/2 THICK RIGID FIBROUS GLASS WITH ALUMINUM FOIL. GLASS SCRIM AND DRAFT OR PLASTIC JACKET VAPOR BARRIER. THE "K" VALUE OF THE DUCT SHALL BE 0.23 BTU/IN/SQ. FT./DEG F/HR. MINIMUM RATING AT 75 DEGREES. R–6 MIN.

10– FLEXIBLE DUCTWORK, WHERE SHOWN ON THE DRAWINGS SHALL BE EQUAL TO FLEXAIRE WITH WIRE HELIX FRAME, POLYESTER LINER, HIGH DENSITY FIBERGLASS (•) INSULATION AND METALIZED REINFORCED VAPOR BARRIER EXTERIOR COVER. PROVIDE SPIN–IN FITTINGS WITH SCOOP OR BELLMOUTH TYPE FITTINGS WITH ADJUSTABLE DAMPERS FOR ALL BRANCH TAKE OFFS. (•) ALL DUCTWORK, INSTALLATION AND EQUIPMENT MUST MEET STATE OF FLORIDA ENERGY CODE REQUIREMENTS FOR 2023.

11–EXHAUST DUCTS SHALL BE GALVANIZED WITH SMOOTH INTERIOR FINISH AND BE CONSTRUCTED OF METAL STEEL LOCK FORMING QUALITY, HAVING ZINC COATING OF 1.25 OUNCES PER SQUARE FOOT FOR EACH SIDE AND MINIMUM THICKNESS OF 0.0157 INCHES (NO. 28 GAGE) FBC R–M1502.4.1

12–REFRIGERANT LIQUID LINES BELOW 5/8" O.D. SIZE TO BE ACR TYPE L. SOFT COPPER LIQUID LINES 5/8" O.D. AND LARGER AND ALL SUCTION LINES SHALL BE ACR TYPE L HARD COPPER, 15% SILFLOS TO BE USE FOR WELDING OF REFRIGERANT PIPING ALL SUCTION LINES TO BE INSULATED WITH A MINIMUM 1/2 THICK ARMAFLEX (R–4) OR EQUAL ROUGH–IN AND PRESSURE TEST ALL REFRIGERANT LINES WITH A 75 PSI PRESSURE, PRIOR TO CLOSING OFF THE REFRIGERANT LINES TO HOLD CHARGE FOR A MINIMUM OF 24 HOURS SIZE OF REFRIGERANT LINES TO BE AS PER MANUFACTURER RECOMMENDATIONS FOR THE ACTUAL LENGTH OF PIPE. EXTERNAL SURFACE PERMEANCE NOT EXCEEDING 0.05 PERM WHEN TESTED IN ACCORDANCE WITH ASTME 96. 2023FBC (8th edition) R–M1411.6.

13–CONTRACTOR TO VERIFY EXISTING FIELD CONDITIONS AND ANY INTERFERENCE WITH OTHER DISCIPLINES (ELECTRICAL, SPRINKLERS) BEFORE BIDDING THE PROJECT, FAILURE TO DO WILL RESULT THAT NECESSARY FIELD MODIFICATIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

14–ALL EQUIPMENT SUPPORTS SHOWN ON PLANS ARE DIAGRAMMATIC AND REQUIRE APPROVAL OF ARCHITECTS, STRUCTURAL ENGINEER AND EQUIPMENT MANUFACTURER PRIOR TO HANGING.

15–CONTRACTOR TO VERIFY WITH THE ARCHITECT OF RECORD THE CEILING/FLOOR FIRE RATING TO DETERMINE REQUIREMENTS FOR FIRE DAMPERS, BEFORE BEGINNING WORK.

16–THERMOSTAT TO BE MANUFACTURED BY HONEYWELL OR EQ. THERMOSTAT LOCATION TO BE APPROVED BY ARCHITECT PRIOR TO INSTALLATION.

17–A/C CONTRACTOR TO VERIFY WITH ARCHITECT THE UNITS EER RATING REQUIRED BASED ON FLORIDA ENERGY CODE COMPLIANCE

18–EXISTING CONDITION: CONTRACTOR SHALL VISIT THE JOB SITE AND ASCERTAIN ALL EXISTING CONDITIONS, WHICH WILL AFFECT HIS WORK. FAILURE TO DO SO WILL NOT BE ACCEPTED AS A REASON FOR REQUESTING EXTRA PAY WHERE THE EXISTING CONDITIONS RESULT IN EXTRA MATERIAL OR LABOR. ANY EXISTING CONDITION FOUND BY THE CONTRACTOR WHICH WILL ADVERSELY AFFECT THE WORK SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER. CORRECTION OF ANY DEFECTS SHALL BE COMPLETED WITHOUT ADDITIONAL CHARGE AND SHALL INCLUDE REPLACEMENTS OR REPAIR OF ANY OTHER PHASE OF THE INSTALLATION WHICH MAY HAVE BEEN DAMAGED THEREBY.

19–IN THE EVENT OF DISCREPANCIES ON THESE DRAWINGS, THIS CONTRACTOR SHALL NOTIFY THIS ENGINEER IN ORDER TO HAVE DIRECTIONS TO COMPLETE WORKS ON THIS JOB.

20–PROVIDE VOLUME DAMPERS AT ALL SUPPLY DIFFUSERS.

21–THIS CONTRACTOR SHALL EXAMINE THESE PLANS (CONSTRUCTION DOCUMENTS) TO UNDERSTAND THE SCOPE. IN THE EVENT OF ANY DISCREPANCIES, CONTRADICTION INFORMATION NOT PROVIDED ON THIS CONSTRUCTION DOCUMENTS, THIS CONTRACTOR SHALL STOP WORKS AND NOTIFY THIS OFFICE FOR CLARIFICATION AND PROCEED WORKS AFTER THIS OFFICE HAVE CLARIFIED THOSE DISCREPANCIES.

## GENERAL NOTES

1. TEMPERTURE SENSORS SHALL BE LOCATED 4'–6" ABOVE FINISHED FLOOR. TEMPERTURE SENSORS SHALL BE TRANE MODEL VASNSRSTAT2 (SENSOR ONLY) OR EQUAL. IVORY FINISH.
2. ALL WORK SHALL BE CORDINATED WITH ALL TRADES INVOLVED. OFFSETS IN PIPING AND DUCTS (INCLUDING DIVIDED DUCTS) AND TRANSITIONS AROUND OBSTRUCTION SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.
3. VERIFY ALL EQUIPMENT CONNECTIONS WITH MANUFACTURERS CERTIFIED DRAWINGS. VERIFY AND PROVIDE DUCT TRANSITIONS TO FURNISHED EQUIPMENT. FIELD VERIFY AND COORDINATE ALL DIMENSIONS BEFORE FABRICATION.
4. CONCRETE PADS TO SUIT MECHANICAL EQUIPMENT SHALL BE SIZED AND LOCATED BY MECHANICAL CONTRACTOR. COORDINATE WITH OTHER TRADE.
5. FLEXIBLE DUCT CONNECTING MAIN DUCT TO SUPPLY DIFFUSER OR AIR BOOT SHALL NOT EXCCED 8 FEET IN LENGTH. IF THE DISTANCE EXCEEDS THIS LIMIT, AN INSULATED METAL DUCT OF REQUIRED LENGTH AND EQUAL DIAMETER SHALL BE INSTALLED WITH AIR SCOOP AND DAMPER AT MAIN DUCT TO REDUCE FLEXIBLE DUCT TO A MAXIMUM LENGTH OF 8 FEET.
6. ALL DUCTS TO BE GROUNDED ACROSS FLEXIBLE CONNECTION WITH FLEXIBLE COPPER GROUNDING STRAPS
7. PROVIDE FLEXIBLE DUCT CONNECTIONS ON ALL DUCTS CONNECTING TO EXHAUST FANS AND AIR HANDLING UNITS.
8. THE INSIDE OF ALL DUCTWORK VISIBLE THROUGH A GRILLE OR DIFFUSER SHALL BE PAINTED FLAT BLACK.
9. ALL DUCT SIZES SHOWN ARE INSIDE CLEAR DIMENSIONS.
10. CONDENSATE DRAIN LINE FROM AIR HANDLING UNIT SHALL BE PIPED FULL SIZE OF THE UNIT DRAIN OUTLET, WITH "P" TRAP, TO FLOOR DRAIN.
11. SMOKE DETECTORS SHALL BE FURNISHED AND WIRED UNDER DIVISION 16. MOUNTING OF SMOKE DETECTORS IN DUCTWORK SHALL BE WORK OF DIVISION 15. MOUNT IN SUPPLY DUCT PER SECTION A/M–2.
12. ALL CONTROL WIRE AND CONDUIT SHALL COMPLY WITH N.E.C. AND DIVISION 16 OF SPECIFICATIONS.
13. CEILING SPACE IS USED AS A RETURN AIR PLENUM. ALL WIRING, CONDUIT, PIPING, ETC. LOCATED IN THIS AREA SHALL BE PLENUM RATED.
14. TEST AND BALANCE AGENCY SHALL INCREASE FAN SPEED AS REQUIRED TO BALANCE ZONE DAMPERS AND THEN REDUCE FAN SPEED AS REQUIRED FOR SPECIFIED AHU CFM.

THIS CONTRACTOR SHALL VERIFY WITH TRUSSES CONTRACTOR FOR OPENING BETWEEN TRUSSES PRIOR ORDERING SUPPLY & RETURN GRILL AND CHANGE SIZE ACCORDINGLY

### HVAC SYMBOLS

- A/C SUPPLY DIFFUSER WITH DAMPER. SEE AIR DEVICE SCHEDULE.
- 8X8 A/C DUCT.
- FLEXIBLE A/C DUCT. LETTER "E" MEANS EXISTING. LETTER "ER" MEANS EXISTING TO BE RELOCATED.
- EF EXHAUST FAN
- T PROGRAMMABLE THERMOSTAT, INSTALL 48" A.F.F.
- VD MANUAL VOLUME DAMPER

### TEST AND BALANCE NOTE:

1. THIS CONTRACTOR SHALL PROVIDE A INDEPENDENT TEST AND BALANCE WHERE INDICATED ON THIS DRAWING TO ASSURE THE REQUIRED AMOUNT OF "CFM" ARE PROVIDED AND NOTIFY OF ANY CONFLICT TO REACH THE AMOUNT OF "CFM" REQUIRED.

## FAN SCHEDULE

| MARK | MODEL NUMBER | CFM | ESP | AMPS | ELECTRICAL VOLTS–PH–HZ | DRIVE | RPM | SONES | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| EF | GREENHECK SP–A90 | 90 | 0.10 | 0.80 A | 120–1–60 | DIRECT | 1,500 | 1.1 | 2,3,4,5 |

1. PROVIDE FACTORY PRE–FABRICATED SOUND ATTENUATION ROOF CURB
2. PROVIDE DISCONNECT SWITCH
3. PROVIDE FAN SPEED CONTROLLER MOUNTED ON UNIT CASING
4. BACKDRAFT DAMPER
5. USE 6"ø DUCT

WHERE THE AIR INFILTRATION RATE IN A DWELLING UNIT IS LESS THAN 3 AIR CHANGES PER HOUR WHEN TESTED WITH A BLOWER DOOR AT A PRESSURE OF 0.2 INCH WATER COLUMN (50PA) IN ACCORDANCE WITH SECTION 402.4.1.2 OF THE FLORIDA BUILDING CODE, ENERGY CONSERVATION, THE DWELLING UNIT SHALL BE VENTILATED BY MECHANICAL MEANS IN ACCORDANCE WITH SECTION 403. FBC R–303.4

ALL RETURN GRILLS SIZE ARE "FREE AREA". THIS CONTRACTOR SHALL PROVIDE RETURN GRILL WITH FREE AREA TO MATCH THE SIZE SHOWN.

THIS CONTRACTOR SHALL VERIFY WITH TRUSSES CONTRACTOR FOR OPENING BETWEEN TRUSSES PRIOR ORDERING SUPPLY & RETURN GRILL AND CHANGE SIZE ACCORDINGLY

## AIR DISTRIBUTION SCHEDULE

| MARK | DESCRIPTION | | | |
|---|---|---|---|---|
| A | CEILING DIFFUSER 24x24 MODULE WITH SQUARE TO ROUD ADAPTOR.<br>9x9 FROM 0 TO 120 CFM 8" ROUND<br>12x12 FROM 125 TO 450 CFM 10" ROUND | | | |
| | NECK SIZE | MATERIAL | FINISH | BASIS OF DESIGN |
| | SEE ABOVE | ALUMINIUM | OFF–WHITE | TITUS |
| B | EXHAUST OR RETURN GRILL, EGGCRATE WITH ½"x½"x1" GRID<br>6x6 FROM 0 TO 120 CFM<br>8x8 FROM 125 TO 250 CFM<br>10x10 FROM 255 TO 400 CFM<br>12x12 FROM 405 TO 520 CFM<br>14x14 FROM 525 TO 730 CFM<br>16x16 FROM 735 TO 950 CFM<br>18x18 FROM 955 TO 1200 CFM | | | |
| | SIZE | MATERIAL | FINISH | BASIS OF DESIGN |
| | SEE ABOVE | ALUMINIUM | OFF–WHITE | TITUS |
| C | SIDEWALL SUPPLY REGISTER: DOBLE DEFLECTION SURFACE MOUNTED BORDER W/OPPOSED BLADE DAMPERS<br>12x6 FROM 0 TO 300 CFM<br>20x6 FROM 305 TO 500 CFM | | | |
| | SIZE | MATERIAL | FINISH | BASIS OF DESIGN |
| | SEE ABOVE | ALUMINIUM | OFF–WHITE | TITUS |

NOTE: 1. AIR DISTRIBUTION DEVICES LOCATED WITHIN ACOUSTICAL TILE CEILING SHALL BE PROVIDED WITH A 24"x24" FACE & A BORDER FOR LAY–IN MOUNTING. AIR DISTRIBUTION DEVICES LOCATED WITHIN GYPSUM BOARD CEILINGS OR WALLS SHALL BE PROVIDED WI TH BORDER FOR SURFACE MOUNTING. REFER TO ARCHITECTURAL DOCUMENTS FOR CEILING TYPES.

### TEST AND BALANCE NOTE:

1. THIS CONTRACTOR SHALL PROVIDE A INDEPENDENT TEST AND BALANCE WHERE INDICATED ON THIS DRAWING TO ASSURE THE REQUIRED AMOUNT OF "CFM" ARE PROVIDED AND NOTIFY OF ANY CONFLICT TO REACH THE AMOUNT OF "CFM" REQUIRED INCLUDING THE O/A CFM.

### NOTES:

1.– PROVIDE PROGRAMMABLE THERMOSTAT WITH SUB–BASE.
2.– PROVIDE SOLENOID VALVES, ACCUMULATORS AND OTHER ACCESSORIES RECOMMENDED BY MFGR. FOR PROPER OPERATION.
3.– APPROVED EQUAL MANUFACTURERS ARE ACCEPTABLE.
4.– PROVIDE ACRYLIC COATING ON ALL PARTS OF AHU'S AND CU'S INCLUDING COILS AND FINS.

| HVAC DESIGN REQUIREMENTS | YES | NO |
|---|---|---|
| DUCT SMOKE DETECTORS | | X |
| FIRE DAMPERS | | X |
| SMOKE DAMPERS | | X |
| FIRE RATED ENCLOSURE CEILING ASSEMBLY | | X |
| FIRE STOPPING | | X |
| SMOKE CONTROL | | X |

DUCTS AND DIFFUSERS INSTALLATION NOTE:

THE LOCATION OF ALL DUCTS AND DIFFUSERS ARE APPROXIMATE AND DOES NOT REPRESENT THE EXACT LOCATION. PRIOR THE INSTALLATION OF ALL DUCTS AND DIFFUSERS, THIS CONTRACTOR SHALL COORDINATE THE EXACT LOCATION WITH THE ELECTRICAL CONTRACTOR TO PREVENT ANY CONFLICT WITH LIGHT FIXTURES LOCATION.

LINEAL DIFFUSER CRITERIA NOTE:

- USE MAXIMUM OF 8" FLEX DUCT FOR 4ft LINEAL DIFFUSER (LIMITED TO 200cfm @ 50CFM/LINEAL FOOT)
- ALL LINEAL DIFFUSERS NOT TO EXCEED 50cfm/FT
- MINIMUM OF 14" PLENUM HIGH
- PROVIDE AND INSTALL TITUS WITH PLENUM BUILT IN BY MANUFACTURE (TITUS).

REFRIGERANT LIQUID LINES BELOW 5/8" O.D. SIZE TO BE ACR TYPE L. SOFT COPPER LIQUID LINES 5/8" O.D. AND LARGER AND ALL SUCTION LINES SHALL BE ACR TYPE L HARD COPPER, 15% SILFLOS TO BE USE FOR WELDING OF REFRIGERANT PIPING ALL SUCTION LINES TO BE INSULATED WITH A MINIMUM 1/2 THICK ARMAFLEX (R–4) OR EQUAL ROUGH–IN AND PRESSURE TEST ALL REFRIGERANT LINES WITH A 75 PSI PRESSURE, PRIOR TO CLOSING OFF THE REFRIGERANT LINES TO HOLD CHARGE FOR A MINIMUM OF 24 HOURS SIZE OF REFRIGERANT LINES TO BE AS PER MANUFACTURER RECOMMENDATIONS FOR THE ACTUAL LENGTH OF PIPE. EXTERNAL SURFACE PERMEANCE NOT EXCEEDING 0.05 PERM WHEN TESTED IN ACCORDANCE WITH ASTME 96. FBC R–M1411.6.

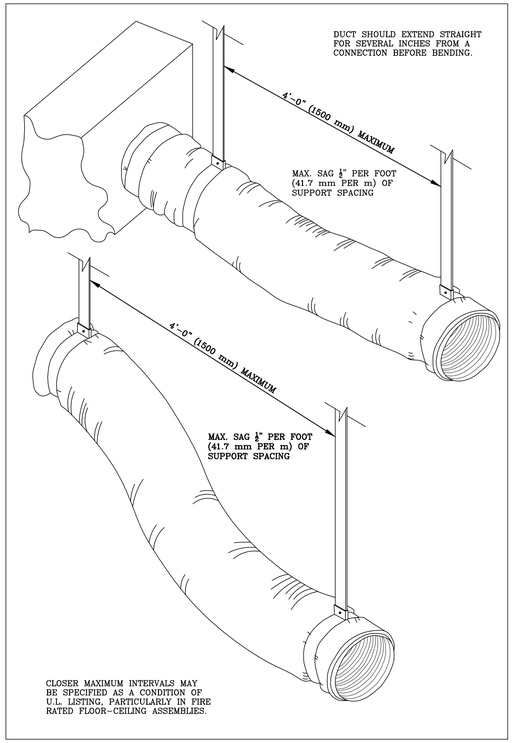
PROVIDE REFRIGERANT CIRCUIT ACCESS PORTS AS PER 2023FBC (8th edition), R SECTION M1411.8 LOCATED OUTDOOR AND SHALL BE FITTED WITH LOCKING TYPE TAMPER RESISTANT CAPS OR SHALL BE OTHERWISE SECURED TO PREVENT UNAUTHORIZED ACCESS.

VOLUME DAMPER NOTE:
PROVIDE VOLUME DAMPER AT ALL SUPPLY DIFFUSERS.

ALL RETURN GRILLS SIZE ARE "FREE AREA". THIS CONTRACTOR SHALL PROVIDE RETURN GRILL WITH FREE AREA TO MATCH THE SIZE SHOWN.

THIS CONTRACTOR SHALL VERIFY WITH TRUSSES CONTRACTOR FOR OPENING BETWEEN TRUSSES PRIOR ORDERING SUPPLY & RETURN GRILL AND CHANGE SIZE ACCORDINGLY

THIS CONTRACTOR SHALL PROVIDE AND INSTALL TURNING VANES AT ALL DUCTS TURNS.




## FLEXIBLE DUCT SUPPORTS

### FLEXIBLE DUCT INSTALLATION STANDARDS

1. UNLESS OTHERWISE DESIGNATED, THE TERM "FLEXIBLE AIR DUCT" IS USED FOR ALL DUCTS CLASSIFIED BY UL AS EITHER FLEXIBLE AIR DUCTS OR FLEXIBLE CONNECTORS.

2. THESE PROVISIONS APPLY TO DUCTS USED FOR INDOOR COMFORT HEATING, VENTILATING, AND AIR CONDITIONING SERVICE. THEY DO NOT APPLY TO SERVICE FOR CONVEYING PARTICULATES, CORROSIVE FUMES AND VAPORS, HIGH TEMPERATURE AIR, CORROSIVE OR CONTAMINATED ATMOSPHERE, ETC.

3. IT IS PRESUMED THAT PROJECT SPECIFICATIONS DEFINE THE SPECIFIC MATERIALS, PRESSURE LIMITS, VELOCITY LIMITS, FRICTION RATE, THERMAL CONDUCTIVITY, ACOUSTICAL RATINGS, AND OTHER ATTRIBUTES.

4. WHEN DUCTS MUST CONFORM TO NFPA STANDARD 90A OR 90B, FLEXIBLE DUCTS MUST BE TESTED IN ACCORDANCE WITH UNDERWRITERS LABORATORY'S *STANDARD FOR FACTORY MADE DUCT MATERIALS*, UL–181, AND MUST BE INSTALLED IN ACCORDANCE WITH THE CONDITIONS OF THEIR UL LISTING. SEPARATE INSTALLATION LIMITATIONS FOR FLEXIBLE CONNECTORS AND FLEXIBLE DUCTS ARE IDENTIFIED IN NFPA STANDARD 90A.
BY UL STANDARD 181, A FLEXIBLE CONNECTOR IS DEFINED AS . A FLEXIBLE AIR DUCT NOT HAVING CERTAIN FLAME PENETRATION, PUNCTURE, AND IMPACT TESTS.

5. THE MINIMUM LENGTH OF FLEXIBLE DUCT SHOULD BE USED.

6. BENDS SHALL BE MADE WITH NOT LESS THAN 1 DUCT DIAMETER CENTERLINE RADIUS. DUCTS SHOULD EXTEND A FEW INCHES BEYOND THE END OF A SHEET METAL CONNECTION BEFORE BENDING. DUCTS SHOULD NOT BE COMPRESSED.

7. DUCTS SHALL BE LOCATED AWAY FROM HOT EQUIPMENT SUCH AS FURNACES AND STEAM PIPES TO AVOID EXCESS TEMPERATURE EXPOSURE.

8. ILLUSTRATIONS OF ACCESSORIES, SLEEVES, AND COLLARS ARE REPRESENTATIVE OF CLASSES OF ITEMS. THE USE OF COMPONENTS NOT PRECISELY IDENTICAL TO THESE IS ACCEPTABLE.

9. IF THE APPLICATION GUIDELINES DICTATED BY THE FLEXIBLE DUCT MANUFACTURER ARE MORE STRINGENT THAN THE SPECIFICATIONS IN THIS MANUAL, THOSE OF THE MANUFACTURER SHALL GOVERN.

### SPECIFICATION FOR SUPPORTING FLEXIBLE DUCT

1. FLEXIBLE DUCT SHALL BE SUPPORTED AT THE MANUFACTURER'S RECOMMENDED INTERVALS BUT AT LEAST EVERY 4' (1.5M). MAXIMUM PERMISSIBLE SAG IS A 1/2 INCH PER FOOT (41.7 MMLM) OF SPACING BETWEEN SUPPORTS. A CONNECTION TO ANOTHER DUCT OR TO EQUIPMENT IS CONSIDERED A SUPPORT POINT.

2. HANGER OR SADDLE MATERIAL IN CONTACT WITH THE FLEXIBLE DUCT SHALL BE WIDE ENOUGH SO THAT IT DOES NOT REDUCE THE INTERNAL DIAMETER OF THE DUCT WHEN THE SUPPORTED SECTION RESTS ON THE HANGER OR SADDLE MATERIAL. IN NO CASE WILL THE MATERIAL CONTACTING THE FLEXIBLE DUCT BE LESS THAN 1" WIDE. NARROWER HANGER MATERIAL MAY BE USED IN CONJUNCTION WITH A SHEET METAL SADDLE THAT MEETS THIS SPECIFICATION. THIS SADDLE MUST COVER ONE–HALF THE CIRCUMFERENCE OF THE OUTSIDE DIAMETER OF THE FLEXIBLE DUCT AND FIT NEATLY AROUND THE LOWER HALF OF THE DUCT'S OUTER CIRCUMFERENCE.

3. FACTORY–INSTALLED SUSPENSION SYSTEMS THAT ARE INTEGRAL TO THE FLEXIBLE DUCT ARE ACCEPTABLE FOR HANGING WHEN THE MANUFACTURER'S RECOMMENDED PROCEDURES ARE FOLLOWED.

4. HANGERS SHALL BE ADEQUATELY ATTACHED TO THE BUILDING STRUCTURE.

5. TO AVOID TEARING THE VAPOR BARRIER, DO NOT SUPPORT THE ENTIRE WEIGHT OF THE FLEXIBLE DUCT ON ANYONE HANGER DURING INSTALLATION. AVOID CONTACTING THE FLEXIBLE DUCT WITH SHARP EDGES OF THE HANGER MATERIAL. DAMAGE TO THE VAPOR BARRIER MAY BE REPAIRED WITH APPROVED TAPE. IF THE INTERNAL CORE IS PENETRATED, REPLACE THE FLEXIBLE DUCT OR TREAT THE TEAR AS A CONNECTION.

6. TERMINAL DEVICES CONNECTED BY FLEXIBLE DUCT SHALL BE SUPPORTED INDEPENDENTLY OF THE FLEXIBLE DUCT.

Daniel F Gutierrez Digitally signed by Daniel F Gutierrez DN: cn=Daniel F Gutierrez, o=DG Consultores LLC, ou=Engineering, email=danny@dfgengineers.com, c=US Date: 2025.12.23 14:54:17 -05'00'

*"This item has been digitally signed and sealed by Daniel F. Gutierrez on the date adjacent to the seal. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies"*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DANIEL F. GUTIERREZ LICENSE No. 49086 STATE OF FLORIDA PROFESSIONAL ENGINEER

11-13-24


DANIEL F. GUTIERREZ, P.E.
ELECTRICAL ENGINEER LIC. #049086


**REVISIONS**

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**SCHEMATIC SET**

SEAL

BALLI - TRAUTMAN
ARCHITECTURE INTERIORS CONSTRUCTION

JOB NUMBER:
CHECKED BY: GB
ISSUE DATE: Issue Date
SCALE: AS NOTED

SHEET TITLE

MECHANICAL NOTES & DETAILS

SHEET NUMBER

M-103


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1533 SUNSET DRIVE SUITE 101, CORAL GABLES, FL 33143



Miami Dade County Department of Regulatory and Economic Resources - Job Copy
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Carrier | Commercial Products Quick Select Data | **24VN / FE4A** 2 - 5 Tons

INFINITY SYSTEM

**19.0 SEER VARIABLE SPEED RESIDENTIAL SPLIT SYSTEMS**
**2, 3, 4, 5 TONS**

INFINITY 19VS

**STANDARD FEATURES**
– Puron (R-410A) HFC refrigerant
– Single circuit / variable cooling capacity control
– ECM variable speed motor
– Sturdy non-corrosive polycardonate condensate drain pan
– Pre-painted exterior panels and primer-coated interior panels tested to 500 hours salt spray protection
– Factory-installed Puron® refrigerant TXV
– Copper tube / aluminum fin condenser coils
– Microtube Technology™ refrigeration system
– Deluxe compressor sound blanket
– Fully insulated cabinet - R-4.2 insulation with vapor barrier

**MAINTENANCE FEATURES**
– No tools required to service filter
– Central terminal board facilitating simple safety circuit troubleshooting and simplified control box arrangement

**RELIABILITY FEATURES**
– Infinity intelligence monitors critical systems parameters
– Variable speed rotary compressor
– Internal pressure and temperature protection
– High pressure switch
– Front-seating service valves
– Liquid line filter drier
– WeatherArmor™ protection package
– Internal crank case heater

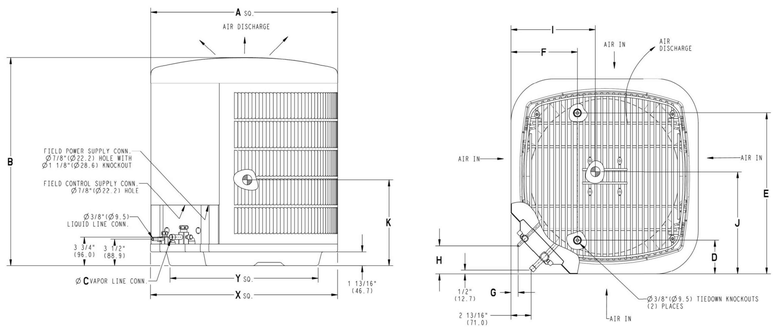
**APPLICATIONS**
– Line sets up to 100 feet total equivalent length

c UL us

Use of the AHRI Certified TM Mark indicates a manufacturer's participation in the program For verification of certification for individual products, go to www.ahridirectory.org.

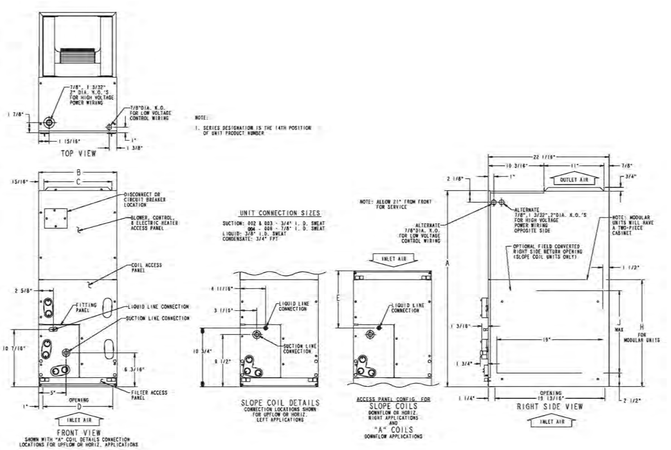
## TECHNICAL SUMMARY

| SINGLE CIRCUIT SPLIT SYSTEMS - INVERTER | | | |
|---|---|---|---|
| NOM TONS | 2.0 | 3.0 | 4.0 |
| SEER | 18.0 | 18.0 | 18.0 |
| SEER2 | 17.5 | 17.5 | 18.0 |
| MODEL NO: | 24VNA924-3 | 24VNA936-3 | 24VNA948-3 |
| MODEL NO: | FE4ANF003 | FE4ANF005 | FE4ANB006 |
| CFM | 700 @ .5" | 1200 @ .5" | 1600 @ .5" |
| REFRIGERANT | R-410A | R-410A | R-410A |
| AMBIENT | 95 | 95 | 95 |
| CAP (MBH) @ 80/67 (TC/SC) | 23.9 / 18.4 | 35.4 / 27.3 | 46.6 / 36.0 |
| CAP (MBH) @ 75/62 (TC/SC) | 22.9 / 16.8 | 34.0 / 24.9 | 44.8 / 32.8 |
| CONDENSING UNIT DATA: | | | |
| COMPRESSOR QTY / STAGES | 1 / Variable | 1 / Variable | 1 / Variable |
| COMPRESSOR 1 RLA | 10.3 | 18.4 | 20.9 |
| COND. FAN FLA | 0.58 | 1.2 | 1.2 |
| MCA | 13.5 | 24.2 | 27.3 |
| MOCP | 20 | 40 | 40 |
| DIMENSIONS (LxWxH) (IN) | 24" x 24" x 33" | 24" x 24" x 39" | 32" x 32" x 40" |
| STD WEIGHT (LBS) | 158 | 186 | 255 |
| AIR HANDLER DATA: | | | |
| EVAP. FAN FLA - BHP | 4.3 - 1/2 | 4.3 - 1/2 | 6.8 - 3/4 |
| HEATER KW | 5.0 | 8.0 | 10.0 |
| MCA (208 / 230) | 31.2 / 33.5 | 44.7 / 48.5 | 53.8 / 58.5 |
| MOCP (208 / 230) | 35 / 35 | 45 / 50 | 60 / 60 |
| DIMENSIONS (LxWxH) (IN) | 22" x 22" x 52" | 22" x 22" x 54" | 22" x 25" x 60" |
| STD WEIGHT (LBS) | 150 | 172 | 207 |
| REF. TUBES O.D. (IN): | | | |
| SUCTION LINE | 3/4 | 3/4 | 7/8 |
| LIQUID LINE | 3/8 | 3/8 | 3/8 |
| | AHU & CU#5 | AHU & CU#2,3 | AHU & CU#1,4 |











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## Certificate of Product Ratings

AHRI Certified Reference Number : 9883708 Date : 10-23-2024 Model Status : Production Stopped
AHRI Type : RCU-A-CB (Split System: Air-Cooled Condensing Unit, Coil with Blower)
Series : INFINITY 19 VS AIR CONDITIONER
Outdoor Unit Brand Name : CARRIER
Outdoor Unit Model Number (Condenser or Single Package) : 24VNA924B*030*
Indoor Unit Model Number (Evaporator and/or Air Handler) : FE4AN(B,F)003L+UI
Region : Southeast and North (AL, AR, DC, DE, FL, GA, HI, KY, LA, MD, MS, NC, OK, SC, TN, TX, VA, AK, CO, CT, ID, IL, IA, IN, KS, MA, ME, MI, MN, MO, MT, ND, NE, NH, NJ, NY, OH, OR, PA, RI, SD, UT, VT, WA, WV, WI, WY, U.S. Territories)
Region Note : On January 1, 2023, efficiency standards increased for central air conditioners. Beginning January 1, 2023, central air conditioners can only be installed in region(s) for which they meet the new regional efficiency requirements.
The manufacturer of this CARRIER product is responsible for the rating of this system combination.
Rated as follows in accordance with the latest edition of AHRI 210/240 – 2017 with Addendum 1, Performance Rating of Unitary Air-Conditioning & Air-Source Heat Pump Equipment and subject to rating accuracy by AHRI-sponsored, independent, third party testing:
Cooling Capacity (A2) - Single or High Stage (95F), btuh : 24000
SEER : 18.00
EER (A2) - Single or High Stage (95F) : 11.00
Rated as follows in accordance with the latest edition of AHRI 210/240 – 2024, Performance Rating of Unitary Air-Conditioning & Air-Source Heat Pump Equipment and subject to rating accuracy by AHRI-sponsored, independent, third party testing:
Cooling Capacity (A2ₑq) – Single or High Stage (95F), btuh : 24200
SEER2 : 17.50
EER2 (A2ₑq) – Single or High Stage (95F) : 10.50
AHU & CU#5
†"Active" Model Status are those that an AHRI Certification Program Participant is currently producing AND selling or offering for sale; OR new models that are being marketed but are not yet being produced."Production Stopped" Model Status are those that an AHRI Certification Program Participant is no longer producing BUT is still selling or offering for sale.
Ratings that are accompanied by WAS indicate an *involuntary re-rate*. The new published rating is shown along with the previous (i.e. WAS) rating.
The Department of Energy has published updated energy efficiency metrics for central air conditioners and heat pumps. This publication reflects both the 1987 metric (SEER) and the 2023 metric (SEER2). Efficiency requirements are published at 10 C.F.R. 430.32(c). Please refer to www.AHRInet.org for more information about updated energy efficiency metrics.
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## Certificate of Product Ratings

AHRI Certified Reference Number : 20673 4008 Date : 10-23-2024 Model Status : Production Stopped
AHRI Type : RCU-A-CB (Split System: Air-Cooled Condensing Unit, Coil with Blower)
Series : INFINITY 19 VS AIR CONDITIONER
Outdoor Unit Brand Name : CARRIER
Outdoor Unit Model Number (Condenser or Single Package) : 24VNA936A*032*
Indoor Unit Model Number (Evaporator and/or Air Handler) : FE4AN(B,F)0 05L+UI
Region : Southeast and North (AL, AR, DC, DE, FL, GA, HI, KY, LA, MD, MS, NC, OK, SC, TN, TX, VA, AK, CO, CT, ID, IL, IA, IN, KS, MA, ME, MI, MN, MO, MT, ND, NE, NH, NJ, NY, OH, OR, PA, RI, SD, UT, VT, WA, WV, WI, WY, U.S. Territories)
Region Note : On January 1, 2023, efficiency standards increased for central air conditioners. Beginning January 1, 2023, central air conditioners can only be installed in region(s) for which they meet the new regional efficiency requirements.
The manufacturer of this CARRIER product is responsible for the rating of this system combination.
Rated as follows in accordance with the latest edition of AHRI 210/240 – 2017 with Addendum 1, Performance Rating of Unitary Air-Conditioning & Air-Source Heat Pump Equipment and subject to rating accuracy by AHRI-sponsored, independent, third party testing:
Cooling Capacity (A2) - Single or High Stage (95F), btuh : 35000
SEER : 18.00
EER (A2) - Single or High Stage (95F) : 10.50
Rated as follows in accordance with the latest edition of AHRI 210/240 – 2024, Performance Rating of Unitary Air-Conditioning & Air-Source Heat Pump Equipment and subject to rating accuracy by AHRI-sponsored, independent, third party testing:
Cooling Capacity (A2ₑq) – Single or High Stage (95F), btuh : 35200
SEER2 : 17.50
EER2 (A2ₑq) – Single or High Stage (95F) : 10.00
AHU & CU#2,3
†"Active" Model Status are those that an AHRI Certification Program Participant is currently producing AND selling or offering for sale; OR new models that are being marketed but are not yet being produced."Production Stopped" Model Status are those that an AHRI Certification Program Participant is no longer producing BUT is still selling or offering for sale.
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The Department of Energy has published updated energy efficiency metrics for central air conditioners and heat pumps. This publication reflects both the 1987 metric (SEER) and the 2023 metric (SEER2). Efficiency requirements are published at 10 C.F.R. 430.32(c). Please refer to www.AHRInet.org for more information about updated energy efficiency metrics.
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## Certificate of Product Ratings

AHRI Certified Reference Number : 9884380 Date : 02-06-2024 Model Status : Active
AHRI Type : RCU-A-CB (Split System: Air-Cooled Condensing Unit, Coil with Blower)
Series : INFINITY 19 VS AIR CONDITIONER
Outdoor Unit Brand Name : CARRIER
Outdoor Unit Model Number (Condenser or Single Package) : 24VNA948A*030*
Indoor Unit Model Number (Evaporator and/or Air Handler) : FE4AN(B,F)005L+UI
Region : Southeast and North (AL, AR, DC, DE, FL, GA, HI, KY, LA, MD, MS, NC, OK, SC, TN, TX, VA, AK, CO, CT, ID, IL, IA, IN, KS, MA, ME, MI, MN, MO, MT, ND, NE, NH, NJ, NY, OH, OR, PA, RI, SD, UT, VT, WA, WV, WI, WY, U.S. Territories)
Region Note : On January 1, 2023, efficiency standards increased for central air conditioners. Beginning January 1, 2023, central air conditioners can only be installed in region(s) for which they meet the new regional efficiency requirements.
The manufacturer of this CARRIER product is responsible for the rating of this system combination.
Rated as follows in accordance with the latest edition of AHRI 210/240 – 2017 with Addendum 1, Performance Rating of Unitary Air-Conditioning & Air-Source Heat Pump Equipment and subject to rating accuracy by AHRI-sponsored, independent, third party testing:
Cooling Capacity (A2) - Single or High Stage (95F), btuh : 45500
SEER : 18.00
EER (A2) - Single or High Stage (95F) : 11.00
Rated as follows in accordance with the latest edition of AHRI 210/240 – 2024, Performance Rating of Unitary Air-Conditioning & Air-Source Heat Pump Equipment and subject to rating accuracy by AHRI-sponsored, independent, third party testing:
Cooling Capacity (A2ₑq) – Single or High Stage (95F), btuh : 45500
SEER2 : 18.00
EER2 (A2ₑq) – Single or High Stage (95F) : 10.50
AHU & CU#1,4
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Daniel F Gutierrez Digitally signed by Daniel F Gutierrez DN: CN=Daniel F Gutierrez, E=danny@dfgengineers.com, OU=Florida, C=US Date: 2024.11.21 19:39:02-05'00'

*"This item has been digitally signed and sealed by Daniel F. Gutierrez on the date adjacent to the seal. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies"*


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*PH:(786)499--4167*
*Email:danny@dfgengineers.com*

*DG CONSULTING ENGINEERS, LLC*
*DESIGN — INSPECTIONS*


**NEW RESIDENCE**

# GS JPD 10635 LLC

10635 SW 63 AV
MIAMI, FL

SEAL

DANIEL F. GUTIERREZ LICENSE No. 49086 STATE OF FLORIDA PROFESSIONAL ENGINEER

11-13-24

DANIEL F. GUTIERREZ, P.E.
ELECTRICAL ENGINEER LIC. #049086

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AHU & CU SPECS

SHEET NUMBER

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## PERFORMANCE™ SERIES
40MBDQ DUCTED

# Performance™ Ducted Indoor Unit

### PERFORMANCE:

| 40MBDQ Ducted | | | | | |
|---|---|---|---|---|---|
| Size | | 9 | 12 | 18 | 24 |
| Indoor Model | | 40MBDQ09---3 | 40MBDQ12---3 | 40MBDQ18---3 | 40MBDQ24---3 |
| ENERGY STAR® | | YES | YES | YES | YES |
| Cooling System Tons | | 0.75 | 1.0 | 1.4 | 2.0 |
| Cooling Rated Capacity | Btu/h | 9,000 | 12,000 | 16,500 | 24,000 |
| Cooling Cap. Range Min - Max | Btu/h | 2,400~12,500 | 2,250~14,400 | 6,500~18,800 | 6,500~27,800 |
| SEER | | 23.0 | 21.5 | 19.6 | 20.6 |
| EER | | 14.0 | 13.0 | 12.5 | 12.5 |
| Heating Rated Capacity (47° F) | Btu/h | 10,000 | 12,000 | 19,000 | 24,600 |
| Heating Rated Capacity (17° F) | Btu/h | 6,450 | 8,350 | 12,700 | 16,500 |
| Heating Maximum Capacity (17° F) | Btu/h | 11,600 | 12,900 | 21,500 | 26,500 |
| Heating Maximum Capacity (5° F) | Btu/h | 9,500 | 12,400 | 17,300 | 24,600 |
| Heating Cap. Range Min - Max | Btu/h | 1,700~15,600 | 1,800~16,300 | 8,900~22,000 | 12,200~32,200 |
| HSPF | | 12.0 | 11.5 | 11.0 | 12.6 |
| COP (47° F) | W/W | 3.62 | 3.52 | 2.93 | 3.66 |
| COP (17° F) | W/W | 1.80 | 2.00 | 1.90 | 2.80 |
| COP (5° F) | W/W | 1.80 | 1.87 | 1.80 | 2.01 |


## PERFORMANCE™ SERIES
40MBDQ DUCTED


### SPECIFICATIONS:

| 40MBDQ Ducted | | | | | |
|---|---|---|---|---|---|
| Heat Pump | | | | | |
| System | | | | | |
| Size | | 9 | 12 | 18 | 24 |
| Indoor Model | | 40MBDQ09---3 | 40MBDQ12---3 | 40MBDQ18---3 | 40MBDQ24---3 |
| Electrical | | | | | |
| Voltage, Phase, Cycle | V/Ph/Hz | 208/230-1-60 | 208/230-1-60 | 208/230-1-60 | 208/230-1-60 |
| Power Supply | | Indoor Unit Powered From Outdoor Unit | | | |
| MCA | A | 1.11 | 1.11 | 1.2 | 1.2 |
| Controls | | | | | |
| Wireless Remote Controller (° F / ° C Convertible) | | Standard | Standard | Standard | Standard |
| Wired Remote Controller (° F / ° C Convertible) | | Standard | Standard | Standard | Standard |
| Operating Range | | | | | |
| Cooling Indoor DB Min - Max | ° F (° C) | 63~90 (17~32) | 63~90 (17~32) | 63~90 (17~32) | 63~90 (17~32) |
| Heating Indoor DB Min - Max | ° F (° C) | 32~86 (0~30) | 32~86 (0~30) | 32~86 (0~30) | 32~86 (0~30) |
| Piping | | | | | |
| Pipe Connection Size - Liquid | in (mm) | 1/4 (6.35) | 1/4 (6.35) | 1/4 (6.35) | 3/8 (9.52) |
| Pipe Connection Size - Suction | in (mm) | 3/8 (9.52) | 1/2 (12.7) | 1/2 (12.7) | 5/8 (16) |
| Indoor | | | | | |
| Unit Width | in (mm) | 27.56 (700) | 27.56 (700) | 34.65 (880) | 43.31 (1100) |
| Unit Height | in (mm) | 7.87 (200) | 7.87 (200) | 8.27 (210) | 9.8 (249) |
| Unit Depth | in (mm) | 19.92 (506) | 19.92 (506) | 26.54 (674) | 30.47 (774) |
| Net Weight | lb (kg) | 43.56 (19.8) | 43.56 (19.8) | 54 (24.5) | 86.86 (39.4) |
| Number of Fan Speeds | | 3 | 3 | 3 | 3 |
| Airflow (lowest to highest) | cfm | 147/211/264 | 176/282/353 | 300/400/480 | 440/700/780 |
| Sound Pressure (lowest to highest) | dB(A) | 30/34/38 | 35/37/39 | 35/37/39 | 35.5/40/44 |
| Max Static Pressure | in W.C. | 0.20 | 0.20 | 0.40 | 0.64 |
| Field Drain Pipe Size O.D. | in (mm) | 1 (25.4) | 1 (25.4) | 1 (25.4) | 1 (25.4) |

Performance may vary based on the compatible outdoor units. See respective pages for performance data.

### COMPATIBILITY:

| Indoor Unit | 40MBDQ09---3 | 40MBDQ12---3 | 40MBDQ18---3 | 40MBDQ24---3 |
|---|---|---|---|---|
| Outdoor Unit Single Zone | 38MARBQ09AA3 | 38MARBQ12AA3 | 38MARBQ18AA3 | 38MARBQ24AA3 |

Single Zone


Single Zone


## PERFORMANCE™ SERIES
38MARB OUTDOOR UNITS

# Performance™ Heat Pump with Basepan Heater

### SPECIFICATIONS:

| 38MARB Outdoor Unit | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Heat Pump | | | | | | | | | | |
| System | | | | | | | | | | |
| Size | | 12 | 6 | 9 | 12 | 18 | 24 | 30 | 36 | |
| Outdoor Model | | 38MARBQ12AA1 | 38MARBQ06AA3 | 38MARBQ09AA3 | 38MARBQ12AA3 | 38MARBQ18AA3 | 38MARBQ24AA3 | 38MARBQ30AA3 | 38MARBQ36AA3 | |
| Electrical | | | | | | | | | | |
| Voltage-Phase-Cycle | V-Ph-Hz | 115-1-60 | 208/230-1-60 | 208/230-1-60 | 208/230-1-60 | 208/230-1-60 | 208/230-1-60 | 208/230-1-60 | 208/230-1-60 | |
| MCA | A. | 19 | 13 | 15 | 15 | 16 | 25 | 23 | 28 | |
| MOCP - Fuse Rating | A. | 25 | 15 | 15 | 15 | 25 | 35 | 30 | 35 | |
| Operating Range | | | | | | | | | | |
| Cooling Outdoor DB Min - Max | ° F (° C) | -22~122 (-30~50) | -22~122 (-30~50) | -22~122 (-30~50) | -22~122 (-30~50) | -22~122 (-30~50) | -22~122 (-30~50) | -22~122 (-30~50) | -22~122 (-30~50) | -22~122 (-30~50) |
| Heating Outdoor DB Min - Max | ° F (° C) | -22~86 (-30~30) | -22~86 (-30~30) | -22~86 (-30~30) | -22~86 (-30~30) | -22~86 (-30~30) | -22~86 (-30~30) | -22~86 (-30~30) | -22~86 (-30~30) | -22~86 (-30~30) |
| Piping | | | | | | | | | | |
| Total Piping Length | ft (m) | 82 (25) | 82 (25) | 82 (25) | 82 (25) | 98 (30) | 164 (50) | 164 (50) | 213 (65) | |
| Piping Lift* | ft (m) | 32 (10) | 32 (10) | 32 (10) | 32 (10) | 65 (20) | 82 (25) | 82 (25) | 98 (30) | |
| Pipe Connection Size - Liquid | in (mm) | 1/4 (6.35) | 1/4 (6.35) | 1/4 (6.35) | 1/4 (6.35) | 1/4 (6.35) | 3/8 (9.52) | 3/8 (9.52) | 3/8 (9.52) | |
| Pipe Connection Size - Suction | in (mm) | 1/2 (12.7) | 3/8 (9.52) | 3/8 (9.52) | 1/2 (12.7) | 1/2 (12.7) | 5/8 (16) | 5/8 (16) | 5/8 (16) | |
| Refrigerant | | | | | | | | | | |
| Type | | R410A | R410A | R410A | R410A | R410A | R410A | R410A | R410A | |
| Charge | in (mm) | 2.47 (1.12) | 2.38 (1.08) | 2.6 (1.18) | 2.6 (1.18) | 4.08 (1.85) | 5.73 (2.6) | 6.06 (2.75) | 7.50 (3.40) | |
| Compressor | | | | | | | | | | |
| Type | | Rotary Inverter | Rotary Inverter | Rotary Inverter | Rotary Inverter | Rotary Inverter | Rotary Inverter | Rotary Inverter | Rotary Inverter | |
| Outdoor | | | | | | | | | | |
| Unit Width | in (mm) | 30.12 (765) | 30.12 (765) | 31.69 (805) | 31.69 (805) | 35.04 (890) | 37.24 (946) | 37.24 (946) | 37.24 (946) | |
| Unit Height | in (mm) | 24.02 (610) | 21.85 (555) | 24.21 (615) | 24.21 (615) | 29.13 (740) | 34.84 (885) | 34.84 (885) | 34.84 (885) | |
| Unit Depth | in (mm) | 11.93 (303) | 11.93 (303) | 12.99 (330) | 12.99 (330) | 13.46 (342) | 16.14 (410) | 16.14 (410) | 16.14 (410) | |
| Net Weight | lbs (kg) | 66.80 (30.3) | 63.71 (28.9) | 74.07 (33.6) | 73.63 (33.4) | 100.97 (45.8) | 134.48 (61) | 141.76 (64.3) | 150.13 (68.1) | |
| Airflow | CFM | 794 | 1,324 | 1,324 | 1,324 | 1,765 | 2,235 | 2,235 | 2,235 | |
| Sound Pressure | dB(A) | 54.0 | 54.5 | 54.5 | 56.0 | 59.0 | 62.0 | 61.5 | 61.5 | |

*Condensing unit above or below indoor unit.

NEW RESIDENCE

GS JPD 10635 LLC

10635 SW 63 AV
MIAMI, FL

SEAL

DANIEL F. GUTIERREZ LICENSE No. 49086 STATE OF FLORIDA PROFESSIONAL ENGINEER

11-13-24

DANIEL F. GUTIERREZ, P.E.
ELECTRICAL ENGINEER LIC. #049086

REVISIONS

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SCHEMATIC SET

SEAL

BALLI - TRAUTMAN
ARCHITECTURE INTERIORS CONSTRUCTION

JOB NUMBER:

CHECKED BY: GB

ISSUE DATE: Issue Date

SCALE: AS NOTED

SHEET TITLE

MECHANICAL
AHU#6 & CU#7
SPECS

SHEET NUMBER

M-105

Daniel F Gutierrez
Digitally signed by Daniel F Gutierrez
DN: CN=Daniel F Gutierrez, E=danny@dfgengineers.com, OU=Florida, C=US
Date: 2024.11.21 14:35:30-05'00'

"This item has been digitally signed and sealed by Daniel F. Gutierrez on the date adjacent to the seal. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies"

DANIEL F. GUTIERREZ, P.E.
LIC. #049086

29111 KINSINGTON COURT
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PH:(786)499-4167
Email: danny@dfgengineers.com

DG CONSULTING ENGINEERS, LLC
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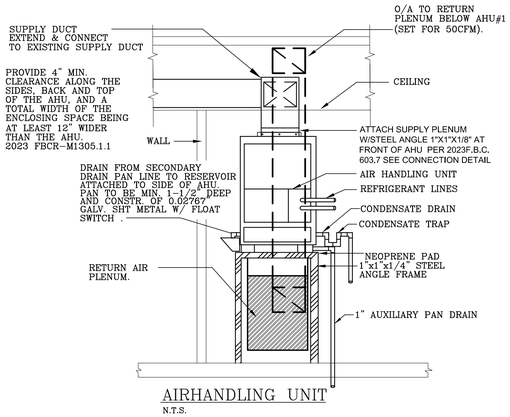
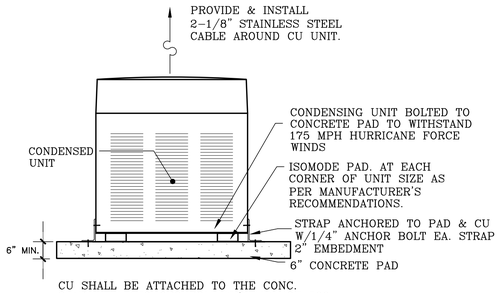



AIRHANDLING UNIT

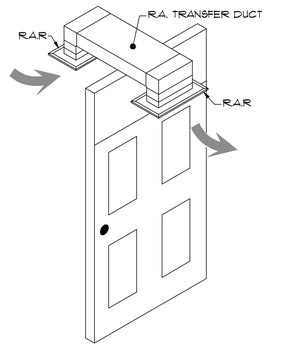
N.T.S.




CU SHALL BE ATTACHED TO THE CONC. SLAB WITH ANCHORS BOLT W/A MIN. OF 500 POUNDS PULL-OUT RESISTANCE TO SECURE THE CONDENSER UNIT FROM WITHIN THE UNIT THROUGH THE CONCRETE SLAB AS PER CHAPTER 8C SECTION 8C-5 MIAMI DADE COUNTY ORDINANCE.

CONDENSING UNIT MOUNTING DETAIL

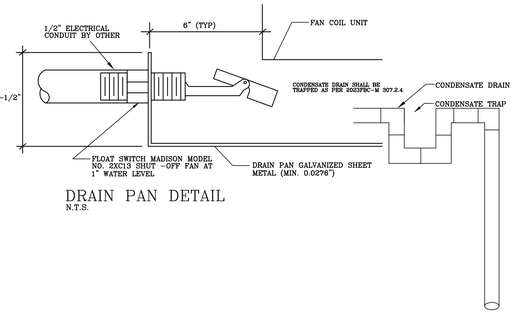
N.T.S.




TYPICAL FOR BEDROOM

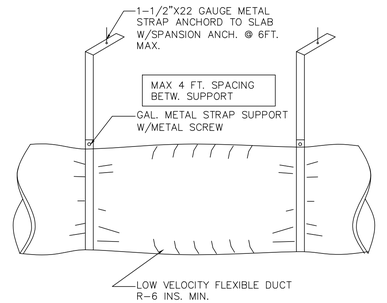
N.T.S

TYPICAL RETURN AIR PATH
FOR COMPLIANCE W/
FBCR-M1602.4



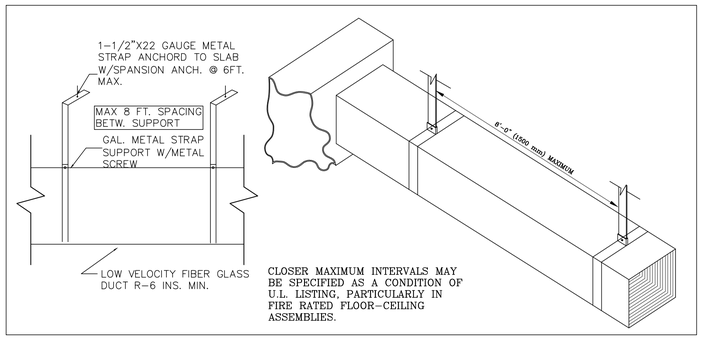

DRAIN PAN DETAIL

N.T.S.



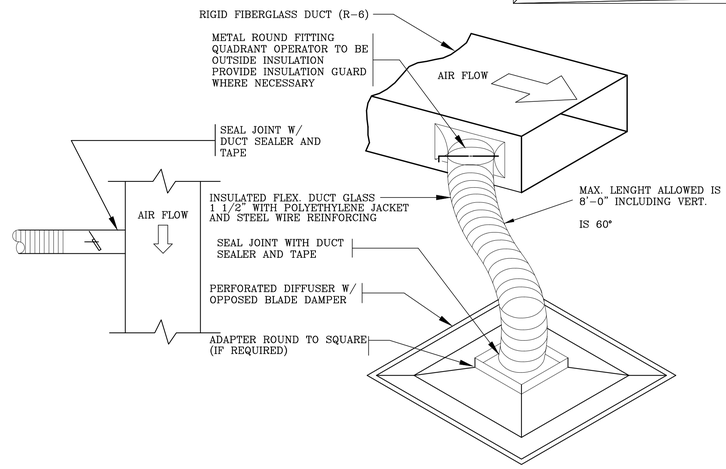

FLEXIBLE DUCT SUPPORT DETAIL

N.T.S.




CLOSER MAXIMUM INTERVALS MAY BE SPECIFIED AS A CONDITION OF U.L. LISTING, PARTICULARLY IN FIRE RATED FLOOR-CEILING ASSEMBLIES.

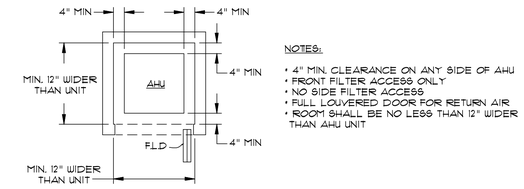
FIBER GLASS HANGERS FOR DUCTS DETAIL




FLEXIBLE DUCT CONNECTION DETAIL

N.T.S.

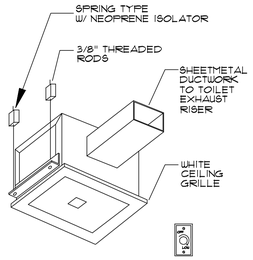
NOTE: ALL BRANCH DUCT TAKE-OFF SHALL HAVE A LOW LOSS BRANCH CONNECTION.




NOTES:

- 4" MIN. CLEARANCE ON ANY SIDE OF AHU
- FRONT FILTER ACCESS ONLY
- NO SIDE FILTER ACCESS
- FULL LOUVERED DOOR FOR RETURN AIR
- ROOM SHALL BE NO LESS THAN 12" WIDER THAN AHU UNIT

AHU'S CLEARANCE REQUIREMENTS




SPEED CONTROL
(SOLID STATE)

NOTES: 1.- PROVIDE BACKDRAFT DAMPER W/ BIRDSCREEN
2.- FLASH & SEAL WALL CAP
3.- PROVIDE INTERNAL ISOLATION AND SOUND INSULATION
4.- SUPPORT FAN FROM STRUCTURE

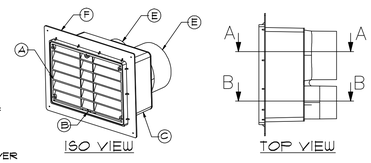
TYPICAL TOILET EXHAUST FAN DETAIL

NTS.

MODEL # DHEB-8 MANUFACTURER: FSH Industries, LLC

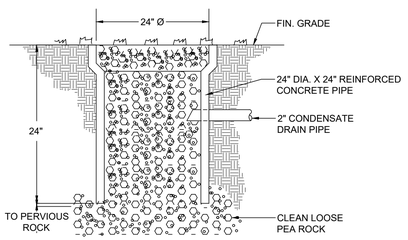
NOTES:

(A) REMOVABLE FRONT FACE LOUVER
(B) (6) STAINLESS STEEL AUGER TIP SCREWS (301)
(C) MONOLITHIC BOX CAVITY
(D) GRAVITY DAMPER
(E) DUCT PORT (UP TO 8" DIAMETER)
(F) MOUNTING FLANGE
(G) OPTIONAL BIRDSCREEN AVAILABLE




X-VENT BOX DETAIL

NTS.




CONDENSATE SOAKAGE PIT DETAIL

N.T.S.

REFRIGERANT LIQUID LINES BELOW 5/8" O.D. SIZE TO BE ACR TYPE L. SOFT COPPER LIQUID LINES 5/8" O.D. AND LARGER AND ALL SUCTION LINES SHALL BE ACR TYPE L HARD COPPER. 15% SILFLOS TO BE USE FOR WELDING OF REFRIGERANT PIPING ALL SUCTION LINES TO BE INSULATED WITH A MINIMUM 1/2 THICK ARMAFLEX (R-4) OR EQUAL ROUGH-IN AND PRESSURE TEST ALL REFRIGERANT LINES WITH A 75 PSI PRESSURE, PRIOR TO CLOSING OFF THE REFRIGERANT LINES TO HOLD CHARGE FOR A MINIMUM OF 24 HOURS SIZE OF REFRIGERANT LINES TO BE AS PER MANUFACTURER RECOMMENDATIONS FOR THE ACTUAL LENGTH OF PIPE. EXTERNAL SURFACE PERMEANCE NOT EXCEEDING 0.05 PERM WHEN TESTED IN ACCORDANCE WITH ASTME 96. FBC R-M1411.6.

PROVIDE REFRIGERANT CIRCUIT ACCESS PORTS AS PER 2023FBC (8th edition), R SECTION M1411.8 LOCATED OUTDOOR AND SHALL BE FITTED WITH LOCKING TYPE TAMPER RESISTANT CAPS OR SHALL BE OTHERWISE SECURED TO PREVENT UNAUTHORIZED ACCESS.

ALL RETURN GRILLS SIZE ARE "FREE AREA". THIS CONTRACTOR SHALL PROVIDE RETURN GRILL WITH FREE AREA TO MATCH THE SIZE SHOWN.

THIS CONTRACTOR SHALL VERIFY WITH TRUSSES CONTRACTOR FOR OPENING BETWEEN TRUSSES PRIOR ORDERING SUPPLY & RETURN GRILL AND CHANGE SIZE ACCORDINGLY

Daniel F Gutierrez

Digitally signed by Daniel F Gutierrez
DN: CN=Daniel F Gutierrez, C=US, O=DG CONSULTING ENGINEERS, OU=Planning, E=US
Date: 2025.11.25 14:34:59-05'00'

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*DANIEL F. GUTIERREZ, P.E.*
*LIC. #049086*

*29111 KINSINGTON COURT*
*WESLEY CHAPEL*
*PH:(786)499-4167*
*Email: danny@dfgengineers.com*

*DG CONSULTING ENGINEERS, LLC*
*DESIGN — INSPECTIONS*


**NEW RESIDENCE**

# GS JPD 10635 LLC

10635 SW 63 AV
MIAMI, FL

SEAL

DANIEL F. GUTIERREZ LICENSE No. 49086 STATE OF FLORIDA PROFESSIONAL ENGINEER

11-13-24

DANIEL F. GUTIERREZ, P.E.
ELECTRICAL ENGINEER LIC. #049086

**REVISIONS**

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**SCHEMATIC SET**

SEAL

BALLI - TRAUTMAN
ARCHITECTURE INTERIORS CONSTRUCTION

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| JOB NUMBER: | |
| CHECKED BY: | GB |
| ISSUE DATE: | Issue Date |
| SCALE: | AS NOTED |

SHEET TITLE

MECHANICAL DETAILS

SHEET NUMBER

M-106


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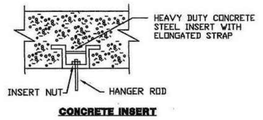
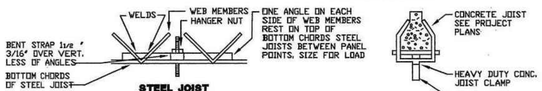
**M-106.pdf**

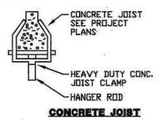
| HANGER ROD SCHEDULE | | | |
|---|---|---|---|
| PIPE SIZE | ROD SIZE | PIPE SIZE | ROD SIZE |
| UP TO 2" | 3/8" DIA. | 4" THRU 6" | 5/8" DIA. |
| 2 1/2" TO 3" | 1/2" | 8" THRU 12" | 7/8" DIA. |



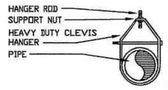

**CONCRETE INSERT**



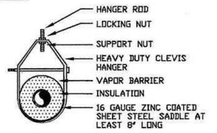

**STEEL JOIST**



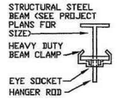

**CONCRETE JOIST**




**CLEVIS HANGER**
**SINGLE HORIZONTAL RUNS**
**NO VAPOR BARRIER INSULATION**



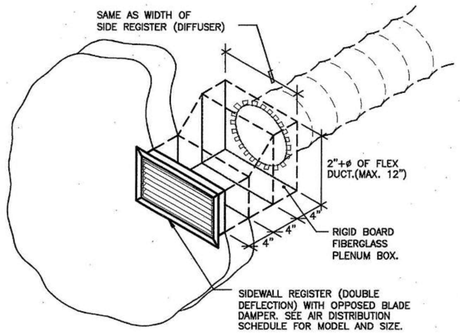

**CLEVIS HANGER**
**SINGLE HORIZONTAL RUNS**
**WITH VAPOR BARRIER INSULATION**




**STEEL BEAM**

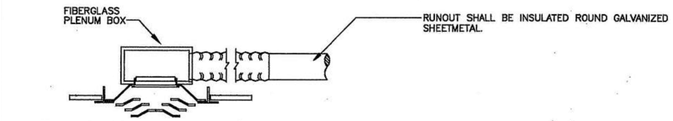
# PIPE SUPPORT DETAIL

N.T.S. M\PIPE-SUP



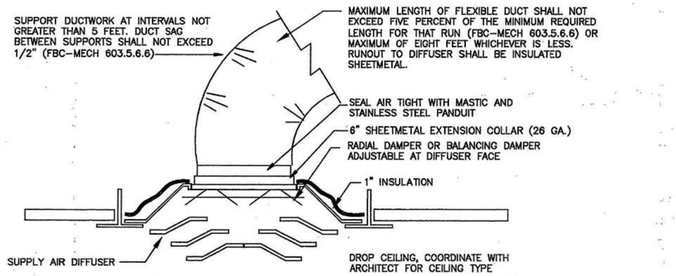

# SIDEWALL REGISTER DETAIL

N.T.S. M\FLEX-1



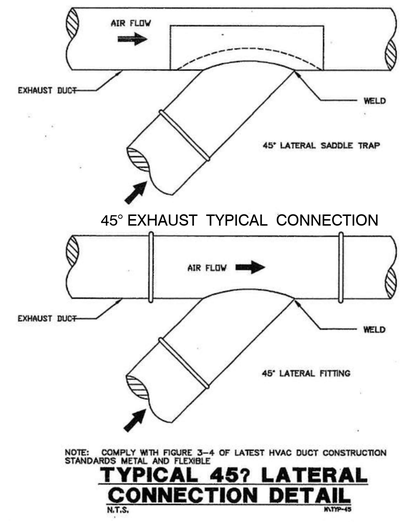

**ALTERNATE FOR LOW CLEARANCE**

N.T.S.




# SUPPLY AIR DIFFUSER

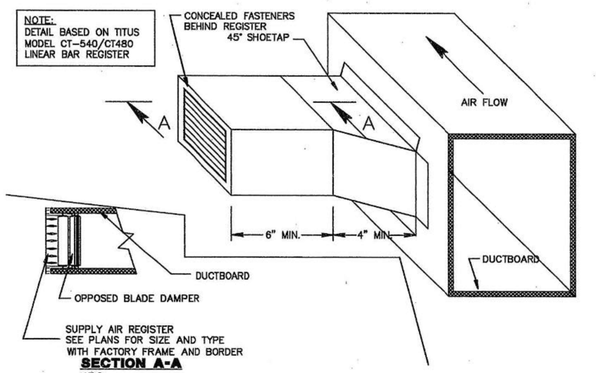
N.T.S. M\CD-1




NOTE: COMPLY WITH FIGURE 3-4 OF LATEST HVAC DUCT CONSTRUCTION STANDARDS METAL AND FLEXIBLE

# TYPICAL 45? LATERAL CONNECTION DETAIL

N.T.S. M\TYP-45




**SECTION A-A**

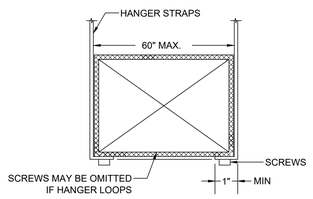
N.T.S.

# LINEAR BAR REGISTER DETAIL

NOT TO SCALE

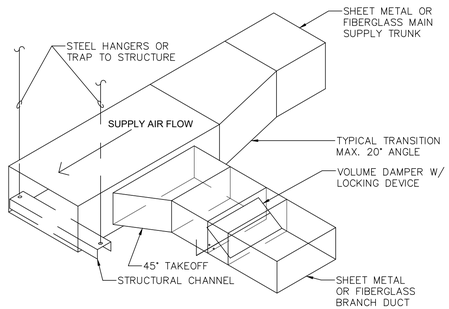



**FIGURE 5-5 LOWER HANGER ATTACHMENTS**




## DUCT HANGER DETAIL

NTS.
NOTE: HANGER SPACING 5FT. , STRAP: 1-1/4" X 22 GA.




## BRANCH DUCT TAKEOFF DETAIL

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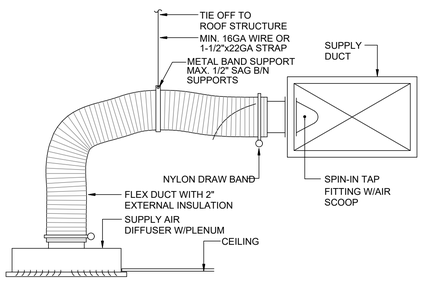


## SUPPLY AIR DIFFUSER DETAIL

N.T.S.
NOTES:
COORDINATE CEILING DIFFUSER TYPE/FINISH WITH ARCHITECT.



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**NEW RESIDENCE**

**GS JPD 10635 LLC**

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MIAMI, FL

SEAL

DANIEL F. GUTIERREZ LICENSE No. 49086 STATE OF FLORIDA PROFESSIONAL ENGINEER

11-13-24

DANIEL F. GUTIERREZ, P.E.
ELECTRICAL ENGINEER LIC. #049086

**REVISIONS**

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**SCHEMATIC SET**

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ARCHITECTURE INTERIORS CONSTRUCTION

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CHECKED BY: GB
ISSUE DATE: Issue Date
SCALE: AS NOTED

SHEET TITLE

SMACNA DETAILS

SHEET NUMBER

M-107

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*DANIEL F. GUTIERREZ, P.E.*
*LIC. #049086*

*29111 KINSINGTON COURT*
*WESLEY CHAPEL*
*PH:(786)499--4167*
*Email:danny@dfgengineers.com*

*DG CONSULTING ENGINEERS, LLC*
*DESIGN — INSPECTIONS*

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1533 SUNSET DRIVE SUITE 101, CORAL GABLES, FL 33143

# Department of Regulatory and Economic Resources
## Impact Fee Assessment

**Process Number:** M2025004680-0
**Batch:**
**Collection Number:**
**Folio:** 2050120040530
**Site Address:** 10635 SW 63 AVE
**CP*:** N
**Assessment Date:** 12/09/2024
**Fee Payer:**

**CP*: Exempt from Public Records 119.071 Florida Statues**
**Y: Exempt**
**N: No Exempt**
**Blank: No info**

***Online Payment available at:***
***https://wwwx.miamidade.gov/apps/rer/ImpactFeesPayments/default.aspx***
***Payment can be made by Credit Card, Cash, Check or Cashiers's Check Payable to Miami Dade County***

| Fee Type | Dist Id | Category Code | Cat Sufix | Category Description | Units | Fee | Extended Amount |
|---|---|---|---|---|---|---|---|
| AREA | | | | | | | |
| | 1 | 5002 | 00 | UNIT SIZE (SQ FT) | 3,800 | $0.9180 | $3,488.40 |
| | 1 | 5002 | 00 | UNIT SIZE (SQ FT) | (3,674) | $0.9180 | ($3,372.73) |
| BIKE | | | | | | | |
| | E | 210 | 00 | SINGLE-FAMILY DETACHED | 1 | $140.7600 | $140.76 |
| | E | 210 | 00 | SINGLE-FAMILY DETACHED | (1) | $140.7600 | ($140.76) |
| FIRE | | | | | | | |
| | 4 | 2007 | 00 | RESIDENTIAL | 1 | $487.2837 | $487.28 |
| | 4 | 2007 | 00 | RESIDENTIAL | (1) | $487.2837 | ($487.28) |
| ROAD | | | | | | | |
| | E | 210 | 00 | SINGLE-FAMILY DETACHED | 1 | $8,965.8000 | $8,965.80 |
| | E | 210 | 00 | SINGLE-FAMILY DETACHED | (1) | $8,965.8000 | ($8,965.80) |
| SCHL | | | | | | | |
| | 1 | 5001 | 00 | RESIDENTIAL UNIT | 1 | $612.0000 | $612.00 |
| | 1 | 5001 | 00 | RESIDENTIAL UNIT | (1) | $612.0000 | ($612.00) |
| TRAN | | | | | | | |
| | E | 210 | 00 | SINGLE-FAMILY DETACHED | 1 | $353.9400 | $353.94 |
| | E | 210 | 00 | SINGLE-FAMILY DETACHED | (1) | $353.9400 | ($353.94) |

**Assessment Total Amount:** $115.67

**Deferral Amount:** $0.00

**Current Balance Due:** $115.67



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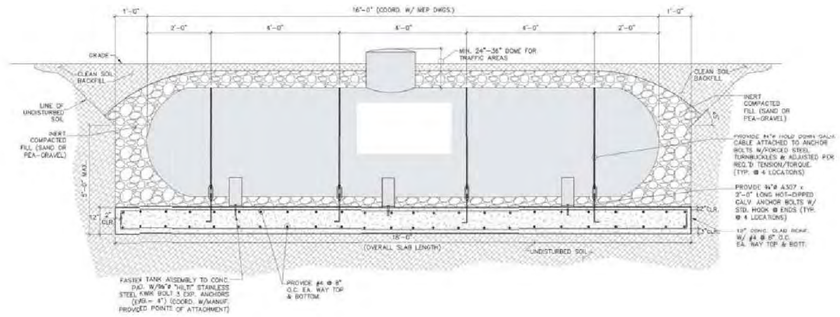
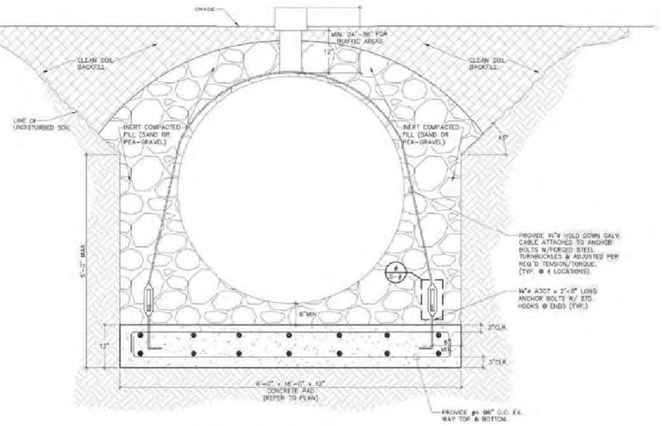
## GENERAL PLUMBING NOTES

1. ALL WORK TO BE DONE IN ACCORDANCE WITH THE FLORIDA BUILDING CODE 2023 8TH EDITION AND LOCAL ORDINANCES.
2. SYSTEM TO BE SLOPED AT 1/4" FT FOR PIPES 2 1/2" AND SMALLER, 1/8" FT. FOR PIPES 3" OR MORE DEVIATIONS SHALL BE APPROVED BY ARCHITECT/ENGINEER.
3. PROVIDE CLEANOUTS EVERY 75 FT. AND AT BASE OF EVERY WASTESTACK. ALL CLOSEOUTS TO BE FLUSH MOUNTED.
4. MATERIALS SHALL BE ALL NEW AND AS FOLLOWS:
   - A. USE PVC FOR DRAINAGE WASTE AND VENT PIPING
   - B. WATER PIPING: COPPER TYPE "L" ASTM B-88 ABOVE GROUND AND COPPER TYPE "K" ASTM B-88 UNDERGROUND. (CPVC WILL BE ACCEPTABLE) INSOLATE COLD AND HOT WATER LINES (PROVIDE ½" ARMAFLEX PIPE INSULATION ON HOT WATER PIPE).
   - C. CONDENSATE DRAIN PIPING: PVC SCHEDULE 40 PROVIDE 1/2" ARMAFLEX PIPE INSULATION ON ALL CONDENSATE DRAIN PIPING.
   - D. FLOOR DRAINS (IF REQUIRED): JOSAM SERIES 30,000 OR EQUAL EXCEPT AT TRANSFORMER VAULT WHICH SHALL BE JOSAM SERIES 32,000 OR EQUAL. KITCHEN FLOOR DRAIN: JOSAM 35420-50, 12" SQUARE NIKALOY TOP, SATIN FINISH, 1/2" PRIMER CONNECTION, BRONZE SEDIMENT BUCKET.
   - E. FLOOR CLEANOUTS: JOSAM SERIES 56020 OR EQUAL.
   - F. WALL CLEANOUTS: JOSAM SERIES 58750 WITH ACCESS COVER OR EQUAL.
   - G. VALVES: 125 PSI NIBCO SCOTT, STOCKHAM OR EQUAL.
   - H. HOSE BIBBS: CHICAGO 837 OR EQUAL WITH VACUUM BREAKER.
   - I. ELECTRIC WATER HEATER: GLASS-LINED, P & T RELIEF VALVE, 5 YEAR WARRANTY MINIMUM.
5. PERFORM THE FOLLOWING TEST:
   - A. WATER PIPING SHALL BE SUBJECTED TO HYDROSTATIC PRESSURE TEST OF 100 PSIG FOR A PERIOD OF TIME SUFFICIENT TO EXAMINE ENTIRE SYSTEM BUT NOT LESS THAN ONE HOUR.
   - B. DRAINAGE SYSTEM: BEFORE INSTALLATION OF ANY DRAINS, THE END OF THE SYSTEM SHALL BE CAPPED & ALL LINES FILLED WITH WATER TO HIGHEST POINT & ALLOWED TO STAND UNTIL INSPECTION IS MADE AND WATER LEVELS REMAIN CONSTANT. USE SCH-40 SOLID CORE IN ALL UNDERGROUND DRAIN LINES.
   - C. CORRECT ALL DEFECTS DISCLOSED BY ABOVE TESTS.
   - D. COMPLETE SYSTEM WITH FIXTURES & EQUIPMENT SHALL BE GIVEN AN IN-SERVICE TEST AFTER INSTALLED.
   - E. STERILIZE ALL WATER LINES WITH A MIXTURE OF (2) POUNDS OF CHLORINATED LIME TO EACH 1000 gal. OF WATER (50 PPM OF AVAILABLE CHLORINE.) RETAIN MIXTURE IN PIPES FOR 24 HOURS AND FLUSH THROUGHLY WITH POTABLE WATER BEFORE PLACING IN SERVICE.
6. PLUMBING CONTRACTOR SHALL FURNISH A WRITTEN GUARANTEE THAT ALL PLUMBING WORK SHALL BE FREE FROM DEFECTS OF MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE, AND THAT HE WILL, AT HIS EXPENSE, REPAIR AND REPLACE ALL WORK WHICH BECOMES DEFECTIVE DURING GUARANTEE PERIOD.
7. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION OF EXISTING UTILITIES AND POINTS OF CONNECTION BEFORE COMMENCING ANY WORK.
8. PLUMBING CONTRACTOR SHALL PAY ALL FEES, INSPECTION AND CONNECTION CHARGES REQUIRED.
9. SUBMIT SHOP DRAWINGS TO ENGINEER FOR APPROVAL OF ALL EQUIPMENT, MATERIALS AND LAYOUTS PRIOR INSTALLATION.
10. OFFSET PIPING AS REQUIRED TO CLEAR BUILDING STRUCTURE, DUCTWORK, ETC. AS SHOWN ON DRAWINGS AND AS REQUIRED BY FIELD CONDITIONS.
11. PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL A/C CONDESATE DRAIN AND TRAP. SEE MECHANICAL PLANS FOR LOCATION OF UNITS AND DARINS.
12. PLUMBING CONTRACTOR SHALL VERIFY ALL SPACE CONDITIONS AND DIMENSIONS AT JOB SITE PRIOR TO FABRICATION AND INSTALLATION OF MATERIALS AND EQUIPMENT.
13. COORDINATE WORK WITH OTHER TRADES.
14. FURNISH AND INSTALL FIXTURES AS SPECIFIED IN SCHEDULE IF PROVIDED, OTHERWISE PROVIDE SHOP DRAWINGS.
15. EACH BATHROOM GROUP AND KITCHEN SHALL BE PROVIDE WITH WATER HAMMER ARRESTOR AS PER 2020 F.B.C.
16. PROVIDE SHUT-OFF VALVE FOR EACH FIXTURE, JUST BEFORE CONNECTING TO FIXTURE. PROVIDE SHUT-OFF VALVE AND BACKFLOW AT METER.
17. WHEREVER DISSIMILAR METALS ARE TO BE JOINED, A DIELECTRIC FITTING SHALL BE PROVIDED TO CONNECT BOTH TYPES OF PIPES.
18. PLUMBING CONTRACTOR SHALL COORDINATE AND VERIFY HEIGHT AND LOCATION OF STUB-UPS.
19. REFER TO SUPPLIER DRAWING AND SPECIFICATIONS FOR ADDITIONAL INFORMATION AND COORDINATION OF EQUIPMENT TERMINATION DETAILS.
21. PROVIDE ANTI SCALD AT ALL TUB AND SHOWERS.
22. PROVIDE CLEAN OUT AT EVERY WASTE STACK.
23. PROVIDE 1" C.W.P. NEXT TO THE ELECTRICAL SERVICE. SEE ELECTRICAL PLANS FOR LOCATION OF SERVICE. COORDINATE WITH THE ELECTRICAL CONTRACTOR PRIOR INSTALLATION.
24. EXISTING CONDITION: CONTRACTOR SHALL VISIT THE JOB SITE AND ASCERTAIN ALL EXISTING CONDITIONS, WHICH WILL AFFECT HIS WORK. FAILURE TO DO SO WILL NOT BE ACCEPTED AS A REASON FOR REQUESTING EXTRA PAY WHERE THE EXISTING CONDITIONS RESULT IN EXTRA MATERIAL OR LABOR. ANY EXISTING CONDITION FOUND BY THE CONTRACTOR WHICH WILL ADVERSELY AFFECT THE WORK SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER. CORRECTION OF ANY DEFECTS SHALL BE COMPLETED WITHOUT ADDITIONAL CHARGE AND SHALL INCLUDE REPLACEMENTS OR REPAIR OF ANY OTHER PHASE OF THE INSTALLATION WHICH MAY HAVE BEEN DAMAGED THEREBY.
25. THIS CONTRACTOR SHALL EXAMINE THESE PLANS (CONSTRUCTION DOCUMENTS) TO UNDERSTAND THE SCOPE. IN THE EVENT OF ANY DISCREPANCIES, CONTRADICTION, INFORMATION NOT PROVIDED ON THIS CONSTRUCTION DOCUMENTS, THIS CONTRACTOR SHALL STOP WORKS AND NOTIFY THIS OFFICE FOR CLARIFICATION AND PROCEED WORKS AFTER THIS OFFICE HAVE CLARIFIED THOSE DISCREPANCIES.




UNDERGROUND TANK DETAIL
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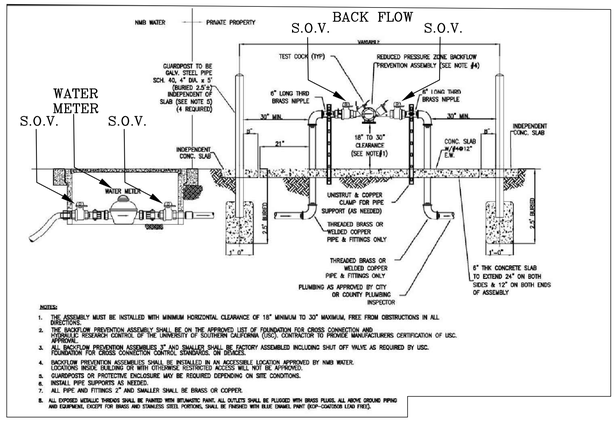


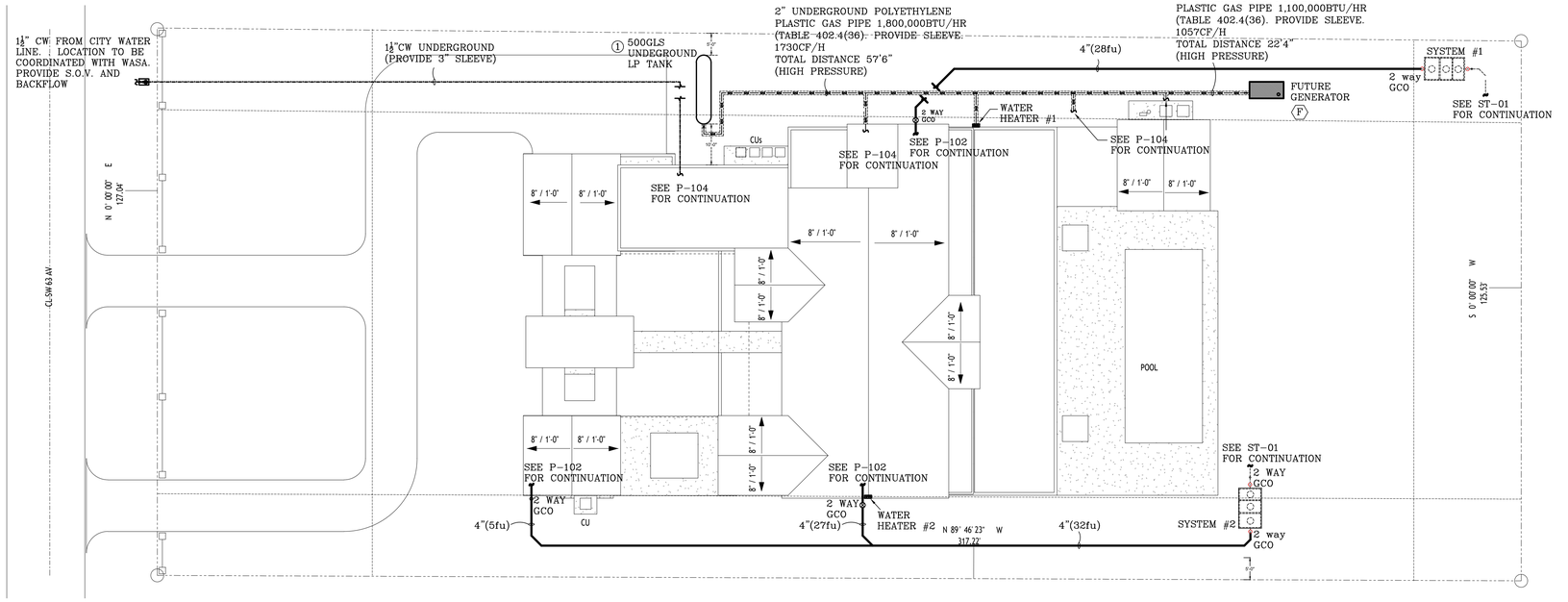


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PLUMBING SITE PLAN
SCALE: 1/16"=1'-0"

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*DANIEL F. GUTIERREZ, P.E.*
*LIC. #049086*

*29111 KINSINGTON COURT*
*WESLEY CHAPEL*
*PH:(786)499-4167*
*Email:danny@dfgengineers.com*

*DG CONSULTING ENGINEERS, LLC*
*DESIGN — INSPECTIONS*


**NEW RESIDENCE**

# GS JPD 10635 LLC

10635 SW 63 AV
MIAMI, FL

SEAL

DANIEL F. GUTIERREZ LICENSE No. 49086 STATE OF FLORIDA PROFESSIONAL ENGINEER

11-13-24

DANIEL F. GUTIERREZ, P.E.
ELECTRICAL ENGINEER LIC. #049086

**REVISIONS**

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**SCHEMATIC SET**

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BALLI - TRAUTMAN
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PLUMBING SITE PLAN

SHEET NUMBER

P-101


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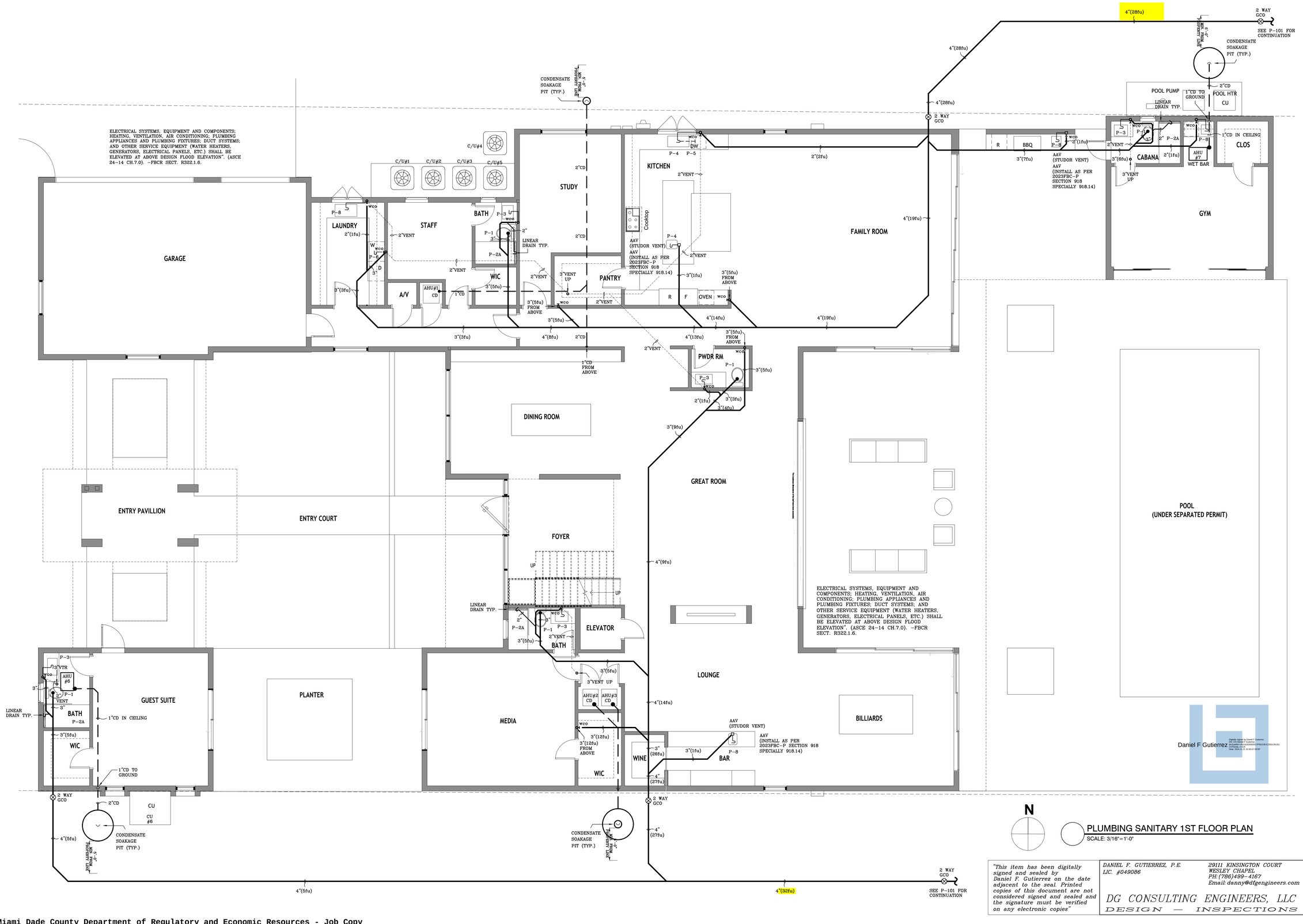


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**NEW RESIDENCE**

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11-13-24

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LIC. #049086

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PLUMBING SANITARY 1ST FLOOR PLAN

SHEET NUMBER

P-102


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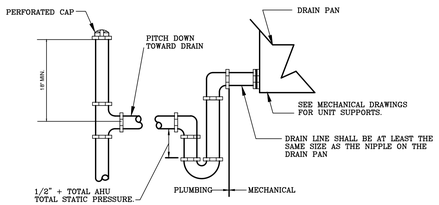
VALDIVIESO, JOSE 6/24/2025 10:44:04 AM HRS Approved

## PLUMBING SYMBOLS

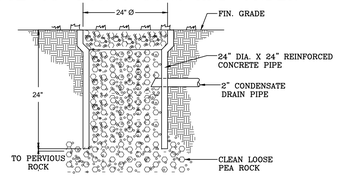
| | |
|---|---|
| | COLD WATER PIPE |
| | HOT WATER PIPE |
| | WATER HAMMER ARRESTOR |
| HB | HOSE BIBB W / VACUUM BREAKER AND SHUT-OFF VALVE |
| | SANITARY LINE |
| C.D. | CONDENSATE LINE |
| WCO | WALL CLEANOUT |
| FCO | FLOOR CLEANOUT |
| | GATE VALVE ( SHUT-OFF VALVE ) |
| C.W.P. | PROVIDE 1" C.W.P. NEXT TO THE ELECTRICAL SERVICE. |




## TYPICAL CONDENSATE DRAIN TRAP

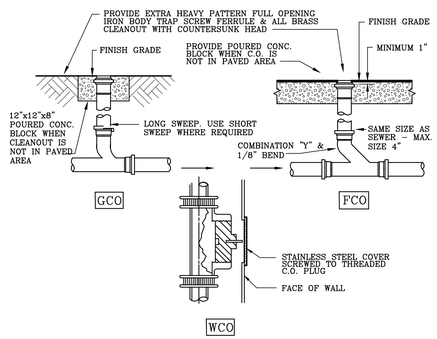
N.T.S.

## USE 24" FOR 5 TONS AND UNDER




## CONDENSATE SOAKAGE PIT DETAIL

N.T.S.




## TYPICAL CLEANOUT DETAIL

N.T.S.

N

PLUMBING SANITARY 2ND FLOOR PLAN

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

Daniel F Gutierrez

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DN: C=US, E=danny@dfgengineers.com, O=Florida, L=Miami, CN=Daniel F. Gutierrez
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*LIC. #049086*

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*WESLEY CHAPEL*
*PH:(786)499--4167*
*Email: danny@dfgengineers.com*

*DG CONSULTING ENGINEERS, LLC*
*DESIGN — INSPECTIONS*


**NEW RESIDENCE**

# GS JPD 10635 LLC

10635 SW 63 AV
MIAMI, FL

SEAL

DANIEL F. GUTIERREZ LICENSE No. 49086 STATE OF FLORIDA PROFESSIONAL ENGINEER

11-13-24


DANIEL F. GUTIERREZ, P.E.
ELECTRICAL ENGINEER LIC. #049086


**REVISIONS**

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PLUMBING SANITARY 2ND FLOOR PLAN

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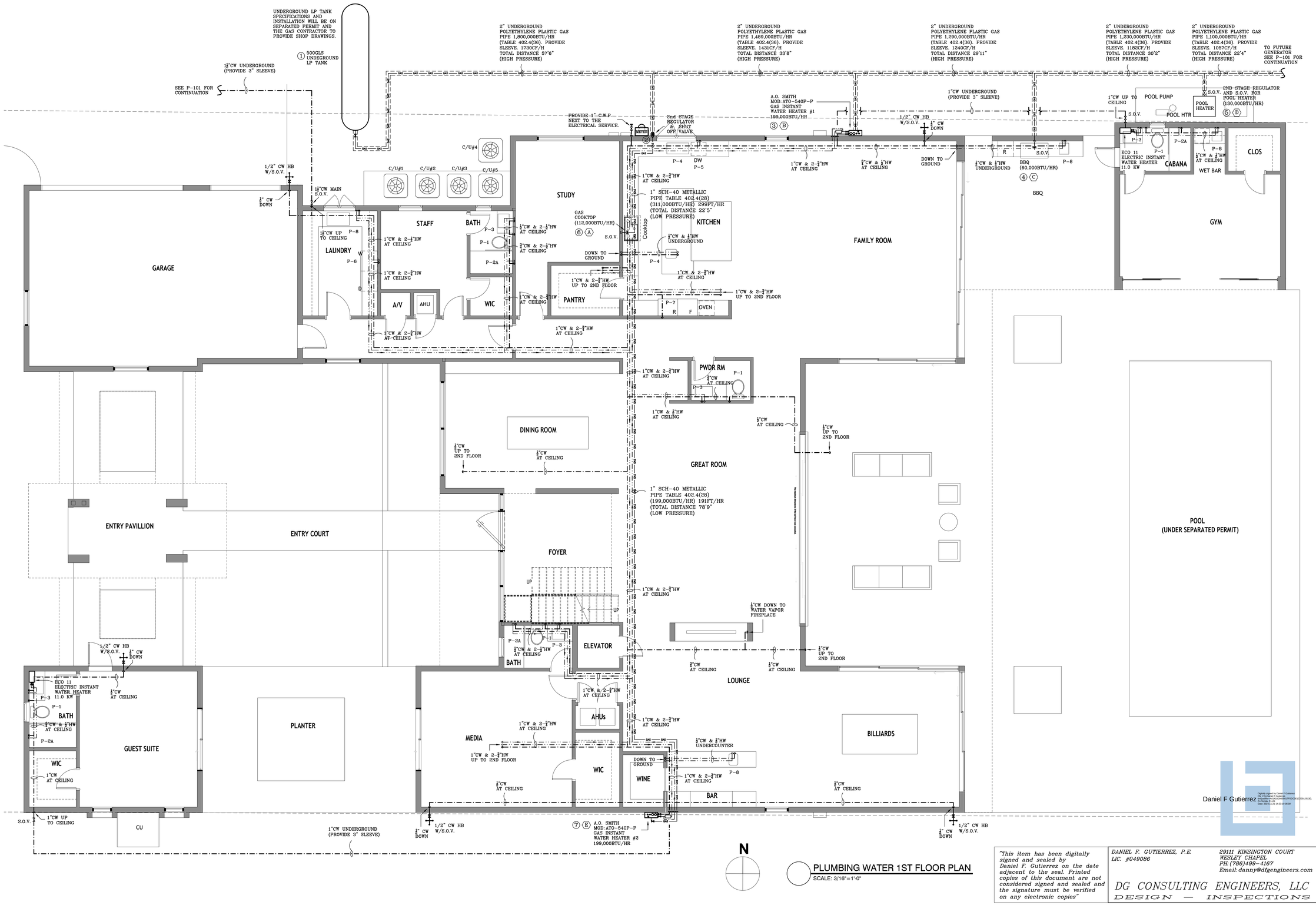


PLUMBING WATER 1ST FLOOR PLAN
SCALE: 3/16"=1'-0"

Daniel F Gutierrez
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PLUMBING WATER 1ST FLOOR PLAN

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NO CELLULAR CORE PIPE UNDERSLAB.

USE PVC FOR UNDERGROUND PIPE. NO METALLIC PIPE ACCEPTED FOR UNDERGROUND INSTALLATION.

HANGERS REQUIRED UNDER SLAB, ANTICORROSION

NO EXPOSED CLEANOUTS IN GROUND, IN BOX AT GRADE.

**SPECIAL NOTE FOR SHOWER HEAD:**
**PROVIDE AND INSTALL BALANCED-PRESSURE COMBINATION VALVE WITH THERMOSTATIC OR COMBINATION BALANCED-PRESSURE/THERMOSTATIC VALVE IN COMPLIANCE WITH MAXIMUM OF 120°F (49°C) SETTING WHICH SHALL BE ADJUSTED IN ACCORDANCE WITH THE MANUFACTURE'S INSTRUCTIONS. IN-LINE THERMOSTATIC VALVES SHALL NOT BE UTILIZED. SHALL COMPLY WITH THE REQUIREMENTS OF ASSE 1016/ASME A112.1016/CSA B125.16 OR ASME A112.18/CSA B125.1 AND SHALL BE INSTALLED AT THE POINT OF USE.**

PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL A/C & WINE CELLAR CONDENSATE DRAIN AND TRAP. SEE MECHANICAL PLANS FOR LOCATION OF UNITS AND DRAINS (SEE NOTE 11).

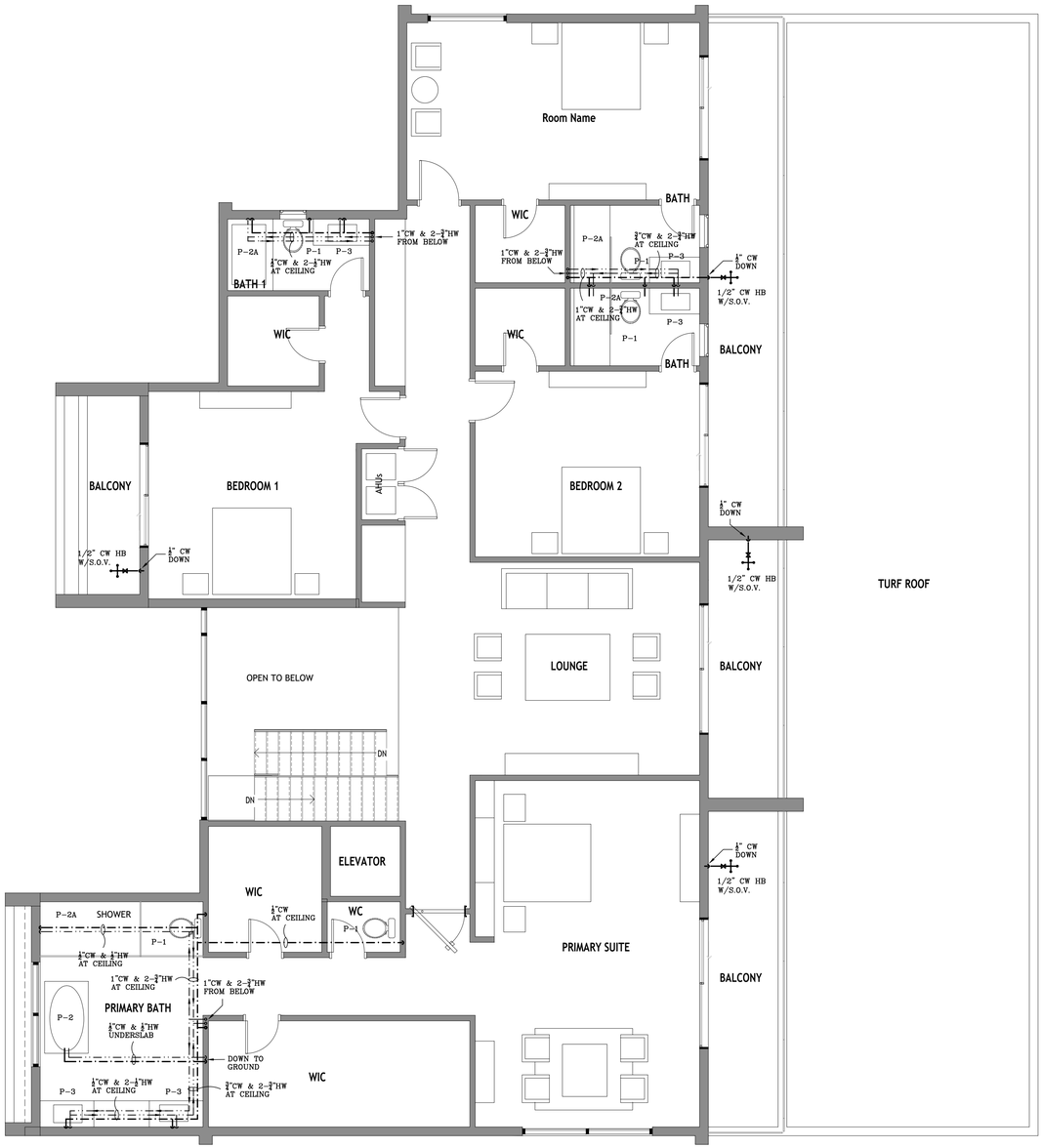
PROVIDE 1" C.W.P. NEXT TO THE ELECTRICAL SERVICE. SEE ELECTRICAL PLANS FOR LOCATION. COORDINATE WITH THE ELECTRICAL CONTRACTOR PRIOR INSTALLATION.

PLUMBING FIXTURE CONNECTION SCHEDULE

| MARK | DESCRIPTION | FU'S | WASTE | C.W. | H.W. | REMARKS/SPECS | MAXIMUM WATER CONSUMPTION RATES |
|---|---|---|---|---|---|---|---|
| P-1 | WATER CLOSET | 3 | 3" | 1/2" | – | FLOOR MOUNTED, FLUSH TANK | 1.28 gallons/flushing cycle |
| P-2 | BATHTUB | 2 | 2" | 1/2" | 1/2" | * PRESSURE BALANCING FAUCET | 1.5 gallons/metering cycle |
| P-2A | SHOWER | 2 | 2" | 1/2" | 1/2" | * PRESS. BALANCING FAUCET. | 1.5 gallons/metering cycle |
| P-3 | LAVATORY | 1 | 1 1/2" | 1/2" | 1/2" | COUNTER TOP | 1.50 gpm at 60psi |
| P-4 | KITCHEN SINK | 2 | 1 1/2" | 1/2" | 1/2" | COUNTER TOP | 1.50 gpm at 60psi |
| P-5 | DISH WASHER | | 1 1/2" | 1/2" | 1/2" | --------- | 6gls/WATER CYCLE |
| P-6 | WASHER (RESIDENTIAL) | 2 | 3" | 1/2" | 1/2" | WATER SUPPLY VALVE & DRAIN IN RECESSED BOX WALL MOUNTED. | 8gls/WATER CYCLE |
| P-7 | REFRIGERATOR | -- | -- | 1/2" | -- | ---------- | N/A |
| P-8 | SINK | 1 | 1 1/2" | 1/2" | 1/2" | ---------- | 1.50 gpm at 60psi |

NOTE : CONTRACTOR TO COORDINATION PLUMBING FIXTURE SELECTION, WITH OWNER/ ARCHITECT FOR FIXTURE AND FAUCET STYLE & COLOR NOT TO EXCEED THE MAXIMUM RATES PERMITTED ON THIS SCHEDULE (FBC TABLE 604.4). PROVIDE FIXTURE COMPLIANCE WITH REFERENCED STANDARDS AS PER FBC P1b 406 through 421. PLUMBING FIXTURES TO COMPLY WITH MIAMI DADE COUNTY ART III, SECTION 8-31.

* MIXING VALVE NOTE: PROVIDE AND INSTALL MIXING VALVE BOX WITH MAXIMUM OF 120°F (49°C) SETTING. SHALL COMPLY WITH ASSE 1016/ASME A112.1016/CSA B112.18.1/CSA B125.1

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PLUMBING WATER 2ND FLOOR PLAN
SCALE: 3/16"=1'-0"

Daniel F Gutierrez
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Date: 2024.11.21 14:23:49-05'00'

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*WESLEY CHAPEL*
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*Email:danny@dfgengineers.com*

*DG CONSULTING ENGINEERS, LLC*
*DESIGN — INSPECTIONS*


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MIAMI, FL

SEAL

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11-13-24


DANIEL F. GUTIERREZ, P.E.
ELECTRICAL ENGINEER LIC. #049086


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## PLUMBING WATER 2ND FLOOR PLAN

SHEET NUMBER

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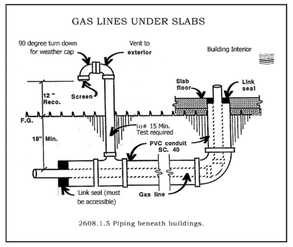
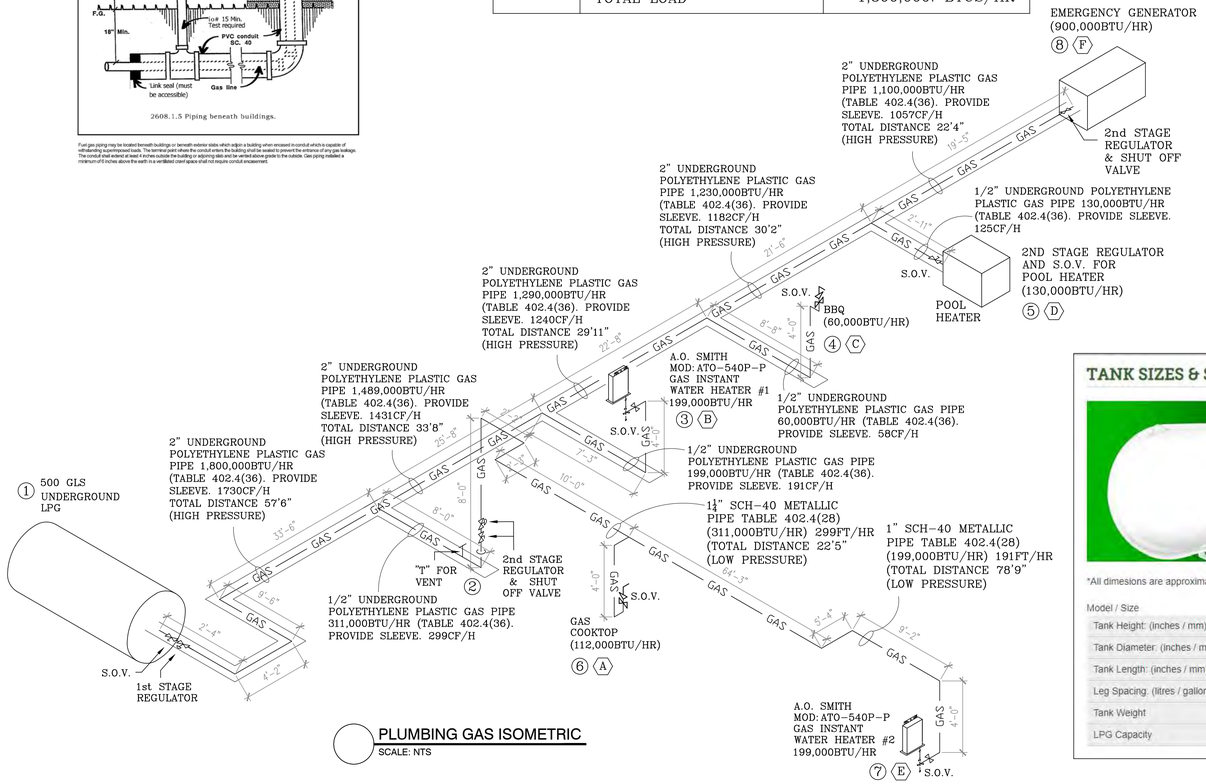
SECTION 2608 GAS PIPING INSTALLATION




Fuel gas piping may be located beneath buildings or beneath exterior slabs which adjoin a building when encased in conduit which is capable of withstanding superimposed loads. The terminal point where the conduit enters the building shall be sealed to prevent the entrance of any gas leakage. The conduit shall extend at least 4 inches outside the building or adjoining slab and be vented above grade to the outside. Gas piping installed a minimum of 8 inches above the earth in a ventilated crawl space shall not require conduit encasement.

| ITEM | DESCRIPTION | LOAD |
|---|---|---|
| A | GAS COOKTOP | 112,000. BTUS/HR |
| B | WATER HEATER #1 | 199,000. BTUS/HR |
| C | BBQ | 60,000. BTUS/HR |
| D | POOL HEATER | 130,000. BTUS/HR |
| E | WATER HEATER #2 | 199,000. BTUS/HR |
| F | EMERGENCY GENERATOR | 1,100,000. BTUS/HR |
| | TOTAL LOAD | 1,800,000. BTUS/HR |

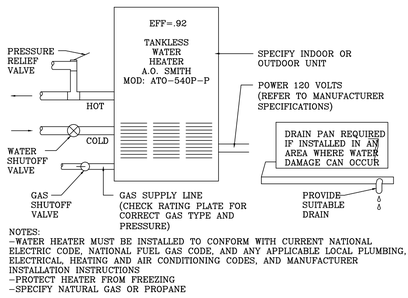



PLUMBING GAS ISOMETRIC
SCALE: NTS

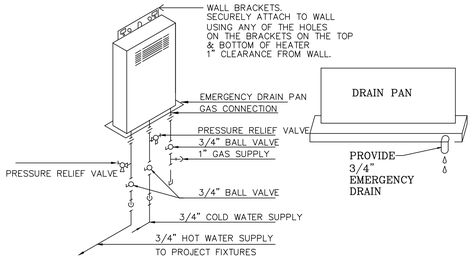
## TANK SIZES & SPECIFICATIONS

*All dimesions are approximate.

| Model / Size | 120 Gallon (Vertical) | 250 Gallon | 500 Gallon | 1000 Gallon | 2000 Gallon |
|---|---|---|---|---|---|
| Tank Height: (inches / mm) | 52 (1321) | 39 (990) | 46 (1168) | 50 (1270) | 55 (1397) |
| Tank Diameter: (inches / mm) | 30 (762) | 30 (762) | 37 (940) | 41 (1041) | 46 (1168) |
| Tank Length: (inches / mm) | n/a | 94 (2388) | 120 (3024) | 192 (4877) | 288 (7315) |
| Leg Spacing: (litres / gallons) | n/a | 60 (1524) | 60 (1524) | 121 (3073) | 192 (4876) |
| Tank Weight | 260 lbs | 483 lbs | 949 lbs | 1760 lbs | 3400 lbs |
| LPG Capacity | 380 L | 750 L | 1500 L | 3000 L | 6000 L |

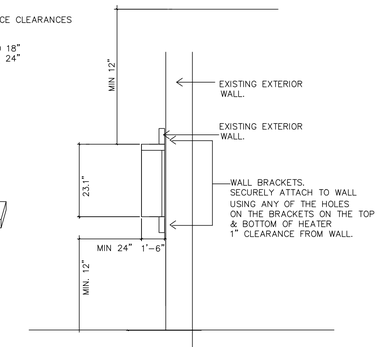



TANKLESS WATER HEATER DIAGRAM
N.T.S.




WATER HEATER SCHEMATC CONNECTION DETAIL
A.O. SMITH MOD: ATO-540P-P SCALE: NTS

OUTDOOR INSTALLATION SERVICE CLEARANCES
DOOR OR WINDOW = 36"
LEFT SIDE OF HEATER = 2"TO 18"
FRONT (MAINTANCE SPACE) = 24"
RIGHT SIDE OF HEATER = 36"
TOP OF HEATER = MIN 12"




OUTDOOR INSTALLATION MOUNTING DETAIL
A.O. SMITH MOD: ATO-540P-P SCALE: NTS

AO Smith

## CONDENSING TANKLESS WITH INTEGRATED RECIRCULATION PUMP

COMMERCIAL-GRADE RESIDENTIAL

Ultra-Low NOx gas tankless water heaters with condensing technology featuring an up to 0.95 Uniform Energy Factor (UEF) which lowers operating costs and is environmentally friendly.

OUTDOOR MODELS ATO-540P

**FEATURES:**

**INTEGRATED RECIRCULATION PUMP**

**ENERGY STAR® QUALIFIED**

**AVAILABLE IN NATURAL GAS OR PROPANE (LP)**

**INDOOR MODEL**
- Includes integrated temperature and pump controls with advanced diagnostics that simplify installation and troubleshooting
- Factory-installed power cord

**OUTDOOR MODEL**
- Includes a wall mount temperature remote controller and advanced diagnostics to simplify troubleshooting

**DURABLE HEAT EXCHANGER:**
- Primary heat exchanger is constructed of a commercial-grade copper that is more resilient to erosion.
- Secondary heat exchanger is made of type 316L stainless steel to protect against corrosion.

**EASY-LINK 540P WITH THREE OTHER 540H TO INCREASE FLOW CAPACITY**

**COMMON VENT UP TO 8 UNITS**

**COMPLIES WITH LEAD FREE STANDARDS**

**SAFETY FEATURES:**
- Air-Fuel Ratio (AFR) Sensor
- Exhaust & Water Temperature Safety Control
- Overheat Cut-Off Fuse

**INTERNAL FREEZE PROTECTION SYSTEM**

**POWER DIRECT VENT DESIGN**
- Category IV venting can be used
- Exhaust, 3" PVC Venting up to 70 Feet or 4" PVC Venting up to 100 Feet
- Provides flexible venting with PVC, CPVC, or ABS Pipe for Intake and Exhaust (solid core only).

**ACCESSORIES**
- Pipe Cover
- Neutralizer Kit
- Isolation Valve Kits
- Concentric Termination
- Product Preservers® Anti-Scale System

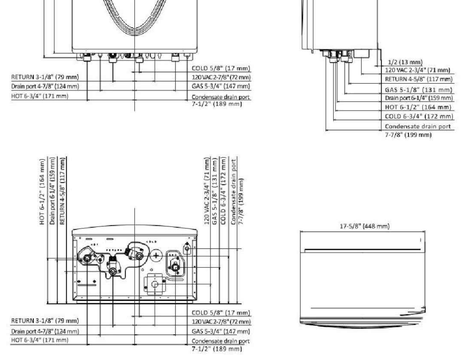
**WARRANTY**
- 15-year limited warranty on heat exchange in residential applications
- 5-year limited warranty on heat exchanger in commercial applications
- 5-year warranty on all parts

**CONDENSING TANKLESS WITH INTEGRATED RECIRCULATION PUMP**

| Model Number | Type | Gas Consumption Input | | Inlet Gas Pressure | | UEF | Maximum GPM* | Hot/Cold Connections | Gas Connection | Dimensions in Inches | | | Approx Shipping Weight (lbs) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Minimum BTU/H | Maximum BTU/H | Minimum in. W.C | Maximum in. W.C | | | | | Height | Width | Depth | |
| **Outdoor Models** | | | | | | | | | | | | | |
| **ATO-540P-P** | Propane | 13,000 | 199,000 | 8.0 | 14.0 | 0.95 | 10 | 3/4" NPT | 3/4" NPT | 23-5/8 | 17-3/4 | 11-1/4 | 69 |

15-150 psi Water Pressure. 40 psi or above recommended for maximum flow.
*Current numbers based on factory testing; 0.5 GPM for activation; 0.4 GPM required for continuous fire after initial ignition.
Indoor models are certified from sea level to 10,100 ft. elevations. Outdoor models are certified from sea level to 6,000 ft. elevation.

**OUTDOOR MODEL**




Daniel F Gutierrez
Digitally signed by Daniel F Gutierrez
DN: CN=Daniel F Gutierrez, OU=Qualified, O=1.3.6.1.4.1.53531.1.1.1=1.2.840.113549.1.9.1=DGENGINEERS@GMAIL.COM, C=US
Date: 2025.11.25 14:28:25-05'00'

*"This item has been digitally signed and sealed by Daniel F. Gutierrez on the date adjacent to the seal. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies"*


*DANIEL F. GUTIERREZ, P.E.*
*LIC. #049086*

*29111 KINSINGTON COURT*
*WESLEY CHAPEL*
*PH.(786)499-4167*
*Email: danny@dfgengineers.com*

*DG CONSULTING ENGINEERS, LLC*
*DESIGN — INSPECTIONS*


**NEW RESIDENCE**

# GS JPD 10635 LLC

10635 SW 63 AV
MIAMI, FL

SEAL

DANIEL F. GUTIERREZ LICENSE No. 49086 STATE OF FLORIDA PROFESSIONAL ENGINEER

11-13-24


DANIEL F. GUTIERREZ, P.E.
ELECTRICAL ENGINEER LIC. #049086


**REVISIONS**

| NO. | DESC | DATE |
|---|---|---|
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**SCHEMATIC SET**

SEAL

BALLI - TRAUTMAN
ARCHITECTURE INTERIORS CONSTRUCTION

JOB NUMBER:
CHECKED BY: GB
ISSUE DATE: Issue Date
SCALE: AS NOTED

SHEET TITLE

PLUMBING GAS ISOMETRIC

SHEET NUMBER

P-106


COPYRIGHT BALLI-TRAUTMAN ARCHITECTS, LLC
1533 SUNSET DRIVE SUITE 101, CORAL GABLES, FL 33143



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**P-106.pdf**

# NOTE: ALL SHEETS MUST BE REVIEWED

**MIAMI-DADE COUNTY DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES**
**Herbert S. Saffir Permitting and Inspection Center**
11805 SW 26th Street (Coral Way) • Miami, Florida 33175-2474 • (786) 315-2000

## APPLICATION FOR MUNICIPAL PERMIT APPLICANTS THAT REQUIRE PLAN REVIEW FROM MIAMI-DADE FIRE RESCUE AND/OR ENVIRONMENTAL SERVICES

**PROVIDE MUNICIPAL PROCESS NUMBER HERE** BL2024-1665

**LOCATION OF IMPROVEMENTS**

Job Address 10635 SW 63rd Ave
Folio 20-5012-004-0530
Lot _____ Block _____
Subdivision _____ PBpg _____
Metes and bounds _____

**CONTRACTOR INFORMATION**

Contractor No. CBC057749
Last four (4) digits of Qualifier No. 9307
Contractor Name GLB & ASSOCIATES
Qualifier Name GIORGIO BALLI
Address 1533 Sunset Dr #101
City Coral Gables State Fl Zip 33143

**TYPE OF IMPROVEMENTS**

- [✓] New Construction on Vacant Land
- [ ] Alteration Interior
- [ ] Alteration Exterior
- [ ] Relocation of Structure
- [ ] Enclosure
- [ ] Repair
- [ ] Repair Due to Fire
- [ ] Demolish
- [ ] Shell Only
- [ ] Addition Attached
- [ ] Addition Detached
- [ ] Re-Roof
- [ ] Foundation Only
- [ ] Tent

Current use of property Residence
Description of Work New Single family Residence
Sq. Ft. 10,629 Units _____ Floors _____
Value of Work $ 2,657,250

**PERMIT TYPE**

- [✓] MBLD* Category 02
- [ ] MELE
- [ ] MPLU
- [ ] MLPG
- [ ] MMEC
- [ ] FIRE

**REVIEW STATUS**

- [ ] Chg. Contractor
- [ ] Re-Issue
- [ ] Re-Stamp
- [ ] Revision
- [ ] Not Applicable for Fire

**OWNER'S NAME**

Owner GS JPD 10635 LLC
Address 9461 SW 103 ST
City MIAMI State FL Zip 33176
Phone _____
Last four (4) digits of Owner's Social Security No. 1111

**PERSON TO PICK UP PLANS**

Name Julian Cardona
Address 1500 NW 89 CT SUITE 220
City Doral State Fl Zip 33172
Phone (786)539-9008

**ARCHITECT / ENGINEER**

Owner BALLI & TRAUMAN ARCHITECTURE
Address 1533 Sunset Dr #101
City Coral Gables State FL Zip 33143
Phone (305)669-5160

**FIRE SPECIAL REQUEST PLAN REVIEW (SRI)**

*I am requesting a Special Request Plan Review (SRI) to be scheduled as soon as possible. There is a minimum charge of one-hour. Please contact the Fire Department for current rate.*

1st Request: _____ Date: _____
2nd Request: _____ Date: _____
3rd Request: _____ Date: _____

**If the applicant is a known named violator with: unpaid civil penalties; unpaid administrative costs of hearing; unpaid County investigative, enforcement, testing, or monitoring costs; or unpaid liens, any or all of which are owed to Miami-Dade County pursuant to the provisions of the Code of Miami-Dade County, Florida, a hold on the review may be placed on this application.**

123_01-192 5/17

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**PA RWK 12.5.2024.pdf**

# NOTE: ALL SHEETS MUST BE REVIEWED

**MIAMI-DADE COUNTY DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES**

**Herbert S. Saffir Permitting and Inspection Center**

11805 SW 26th Street (Coral Way) • Miami, Florida 33175-2474 • (786) 315-2000

## APPLICATION FOR MUNICIPAL PERMIT APPLICANTS THAT REQUIRE PLAN REVIEW FROM MIAMI-DADE FIRE RESCUE AND/OR ENVIRONMENTAL SERVICES

**PROVIDE MUNICIPAL PROCESS NUMBER HERE** BL2024-1665

**LOCATION OF IMPROVEMENTS**

Job Address: 10635 SW 63rd Ave
Folio: 20-5012-004-0530
Lot: _____ Block: _____
Subdivision: _____ PBpg: _____
Metes and bounds: _____

**CONTRACTOR INFORMATION**

Contractor No.: CBC057749
Last four (4) digits of Qualifier No.: 9307
Contractor Name: GLB & ASSOCIATES
Qualifier Name: GIORGIO BALLI
Address: 1533 Sunset Dr #101
City: Coral Gables State: Fl Zip: 33143

**TYPE OF IMPROVEMENTS**

- [ ] New Construction on Vacant Land
- [ ] Alteration Interior
- [ ] Alteration Exterior
- [ ] Relocation of Structure
- [ ] Enclosure
- [ ] Repair
- [ ] Repair Due to Fire
- [ ] Demolish
- [ ] Shell Only
- [ ] Addition Attached
- [ ] Addition Detached
- [ ] Re-Roof
- [ ] Foundation Only
- [ ] Tent

Current use of property: Residence

Description of Work: New Single family Residence

Sq. Ft.: 10,629 Units: _____ Floors: _____

Value of Work: $ 2,657,250

**PERMIT TYPE**

- [ ] MBLD* Category _____
- [ ] MELE _____
- [ ] MPLU _____
- [ ] MLPG _____
- [ ] MMEC _____
- [ ] FIRE _____

**REVIEW STATUS**

- [ ] Chg. Contractor
- [ ] Re-Issue
- [ ] Re-Stamp
- [ ] Revision
- [ ] Not Applicable for Fire

**OWNER'S NAME**

Owner: GS JPD 10635 LLC
Address: 9461 SW 103 ST
City: MIAMI State: FL Zip: 33176
Phone: _____
Last four (4) digits of Owner's Social Security No.: 1111

**PERSON TO PICK UP PLANS**

Name: Julian Cardona
Address: 1500 NW 89 CT SUITE 220
City: Doral State: Fl Zip: 33172
Phone: (786)539-9008

**ARCHITECT / ENGINEER**

Owner: BALLI & TRAUMAN ARCHITECTURE
Address: 1533 Sunset Dr #101
City: Coral Gables State: FL Zip: 33143
Phone: (305)669-5160

**FIRE SPECIAL REQUEST PLAN REVIEW (SRI)**

*I am requesting a Special Request Plan Review (SRI) to be scheduled as soon as possible. There is a minimum charge of one-hour. Please contact the Fire Department for current rate.*

1st Request: _____ Date: _____
2nd Request: _____ Date: _____
3rd Request: _____ Date: _____

**If the applicant is a known named violator with: unpaid civil penalties; unpaid administrative costs of hearing; unpaid County investigative, enforcement, testing, or monitoring costs; or unpaid liens, any or all of which are owed to Miami-Dade County pursuant to the provisions of the Code of Miami-Dade County, Florida, a hold on the review may be placed on this application.**

123_01-192 5/17

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VILLAGE OF PINECREST
Building & Planning Department
12645 Pinecrest Parkway,
Pinecrest, Florida 33156

**PERMITTING HOURS**
8:00 AM TO 2:00 PM
MONDAY – FRIDAY

**CONTACT INFORMATION**
T: 305.234.2121 F: 305.234.2133
building@pinecrest-fl.gov
INSPECTIONS: 305.234.2111
INSURANCE RENEWALS: renewals@pinecrest-fl.gov

**MASTER PERMIT #**_____

**SUB PERMIT #**_____

## INSTRUCTIONS

**STEP 1.** APPLICATION WHICH MUST BE SIGNED BY THE PROPERTY OWNER & QUALIFIER; BOTH SIGNATURES MUST BE NOTARIZED. PERMITS/PLANS DROP OFF CLOSES @ 2:00 P.M.

**STEP 2.** SUBMIT THE COMPLETED APPLICATION WITH ALL NECESSARY DOCUMENTS TO THE BUILDING AND PLANNING DEPARTMENT FOR PROCESSING. REFER TO PERMIT CHECKLIST ONLINE AT: HTTPS://WWW.PINECREST-FL.GOV/GOVERNMENT/BUILDING-PLANNING/FORMS-FEES-INFORMATION.

**STEP 3.** PROJECTS OVER $2,500 REQUIRE RECORDED NOTICE OF COMMENCEMENT POSTED AT JOBSITE PRIOR TO COMMENCEMENT OF CONSTRUCTION.

## APPLICATION

**JOB ADDRESS:** 10635 SW 63 Rd Ave **FOLIO #: 20-**5012-004-0530

**DESCRIPTION OF WORK:** New Single- Family Home **FLOOD ZONE:** X AH7 AE7 AE10 AE11

**VALUE OF WORK:** 2,657,250 **PROJECT SQ. FT.:** 10,629 **NO. OF FLOORS:** _____

**CONTACT:** Julian Cardona **EMAIL:** permitexpeditors@gmail.com **PHONE:** (786)539.9008

| PERMIT TYPE | (✓) | PERMIT CHANGE | (✓) | IMPROVEMENT TYPE | (✓) | CATEGORY | (✓) |
|---|---|---|---|---|---|---|---|
| BUILDING | | REVISION | | NEW CONSTRUCTION | | COMMERCIAL | |
| ELECTRICAL | | RENEWAL | | ALTERATION | | RESIDENTIAL | |
| MECHANICAL | | CHG OF CONTRACTOR | | ADDITION | | APPRAISED BLDG. VALUE | |
| PLUMBING | | CHG OF ARCH/EGR | | DEMOLITION | | | |
| ZONING | | | | | | $_____ | |

| PROPERTY OWNER | |
|---|---|
| NAME | GS JPD 10635 LLC |
| | |
| ADDRESS | 9461 SW 103 ST |
| | MIAMI, FL 33176 |
| PHONE | |
| EMAIL | |

| CONTRACTOR | |
|---|---|
| COMPANY | GLB& Associates |
| QUALIFIER | Giorgio Balli |
| ADDRESS | 1533 Sunset Dr Suite 101 Coral Gables, Fl 33143 |
| LICENSE # | CBC057749 |
| PHONE | (305)669.5160 |
| EMAIL | giorgio@theballigroup.com |

| ARCHITECT | |
|---|---|
| NAME | BALLI & TRAUTMAN ARCHITECTURE |
| LICENSE # | AA26002968 |
| PHONE | (305)669.5160 |
| EMAIL | giorgio@theballigroup.com |

| ENGINEER | |
|---|---|
| NAME | |
| LICENSE # | |
| PHONE | |
| EMAIL | |

## OFFICE USE ONLY

☐ *PERMIT CLERK REVIEW COMPLETE AND UP-FRONT FEE PAID. UPFRONT FEE AMOUNT PAID $*_____

| FEES TYPE | AMOUNT | FEES TYPE | AMOUNT | SECTION | BY | DATE |
|---|---|---|---|---|---|---|
| SCAN FEE ($3/PG) | | ZONING/PLANNING | | ZONING/PLANNING | | |
| BUILDING FEES | | SOLID WASTE | | ELECTRICAL | | |
| STORMWATER REVIEW | | MUNICIPAL | | MECHANICAL | | |
| MIAMI-DADE COUNTY | | STORM DRAINAGE | | PLUMBING | | |
| FL DBR | | IMPACT ADMIN | | PUBLIC WORKS | | |
| FL DCA | | SIDEWALK | | STRUCTURAL | | |
| FINES | | EXPEDITE- REWORK | | STORMWATER | | |
| CERT. OF OCCUPANCY | | UPFRONT FEE | | BUILDING | | |
| CONSTRUCTION SIGN | | TOTAL DUE: | | BUILDING OFFICIAL | | |

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Permit Application.pdf

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## CONDITIONS OF APPROVAL

☐ *CONDITION DESCRIPTION:*

## IMPORTANT NOTICES

1. DO NOT BEGIN ANY WORK WITHOUT HAVING RECEIVED YOUR VALIDATED PERMIT AND PERMIT CARD. APPLYING FOR A PERMIT DOES NOT GRANT THE RIGHT TO BEGIN CONSTRUCTION. HOURS OF CONSTRUCTION ARE LIMITED TO MONDAY THROUGH FRIDAY FROM 7:00 A.M. TO 6:30 P.M., SATURDAYS FROM 8:00 A.M. TO 4:00 P.M. NO CONSTRUCTION ON SUNDAYS OR STATE HOLIDAYS. NO INSPECTIONS WILL BE CONDUCTED ON WEEKENDS OR HOLIDAYS.
2. ALL CONSTRUCTION AND/OR DEMOLITION AREAS MUST BE MAINTAINED IN A CLEAN, NEAT AND SANITARY CONDITION FREE FROM CONSTRUCTION DEBRIS.
3. STREETS AND NEIGHBORING PROPERTIES SHALL BE KEPT FREE FROM DIRT AND DEBRIS.
4. SWALES MUST BE PROTECTED FROM BEING DAMAGED BY EQUIPMENT OR VEHICLES.
5. CONSTRUCTION TRAILERS ARE PROHIBITED ON SINGLE FAMILY RESIDENTIAL CONSTRUCTION SITES. OTHER CONSTRUCTION MAY HAVE A TRAILER, WHICH REQUIRES A SEPARATE PERMIT.
6. PORTABLE TOILETS FOR A CONSTRUCTION SITE REQUIRE A SEPARATE PERMIT.
7. DO NOT DISCHARGE WATER INTO THE RIGHT OF WAY OR STORM DRAINS WITHOUT APPROVAL FROM THE BUILDING AND PLANNING DEPARTMENT.
8. EQUIPMENT AND MATERIALS SHALL BE STORED WITHIN YOUR PROPERTY, NOT ON PUBLIC RIGHT OF WAY.
9. FLORIDA DEPARTMENT OF HEALTH APPROVAL IS REQUIRED FOR APPLICATIONS INVOLVING SEPTIC TANKS. DEPARTMENT OF ENVIRONMENTAL RESOURCES MANAGEMENT (DERM) AND/OR MIAMI DADE WATER AND SEWER DEPARTMENT (MDWASD) APPROVAL IS REQUIRED FOR APPLICATIONS INVOLVING SEWERS AND WATER.
10. THE ISSUANCE OF A DEVELOPMENT PERMIT BY THE VILLAGE DOES NOT IN ANY WAY CREATE ANY RIGHT ON THE PART OF AN APPLICANT TO OBTAIN A PERMIT FROM A STATE OR FEDERAL AGENCY AND DOES NOT CREATE ANY LIABILITY ON THE PART OF THE VILLAGE FOR ISSUANCE OF THE PERMIT IF THE APPLICANT FAILS TO OBTAIN REQUISITE APPROVALS OR FULFILL THE OBLIGATIONS IMPOSED BY A STATE OR FEDERAL AGENCY OR UNDERTAKES ACTIONS THAT RESULT IN A VIOLATION OF STATE OR FEDERAL LAW. IN ADDITION, ALL APPLICABLE STATE AND FEDERAL PERMITS SHALL BE OBTAINED BY THE APPLICANT BEFORE COMMENCEMENT OF THE DEVELOPMENT.

## AFFIDAVIT

APPLICATION IS HEREBY MADE TO OBTAIN A PERMIT TO DO WORK AND INSTALLATION AS INDICATED. I, THE OWNER OF THE PROPERTY, CERTIFY THAT ALL WORK WILL BE PERFORMED TO MEET THE STANDARDS OF ALL LAWS REGARDING CONSTRUCTION IN THE VILLAGE OF PINECREST. I UNDERSTAND THAT SEPARATE PERMITS ARE REQUIRED FOR ELECTRICAL, PLUMBING, POOL, EXTERIOR DOOR, MECHANICAL, WINDOW, FENCE, DRIVEWAY, ROOFING, SHUTTERS AND SIGNS AND THERE MAY BE ADDITIONAL PERMITS REQUIRED FROM OTHER GOVERNMENTAL AGENCIES.

I, THE OWNER OF THE PROPERTY, HAVE DISCLOSED ALL INFORMATION RELATED TO ANY WORK AT THE PROPERTY PERFORMED IN THE PRIOR ONE (1) YEAR TO THE BUILDING OFFICIAL. FURTHER, I AM FULLY AWARE THAT IF THE CUMULATIVE COST OF WORK TO MY HOME OR BUSINESS UNDER THIS AND ANY OTHER PERMIT DURING THE ONE (1) YEAR PERIOD BEGINNING ON THE DATE OF THE FIRST IMPROVEMENT OR REPAIR TO THE STRUCTURE SUBSEQUENT TO JANUARY 1, 2015 EXCEEDS FIFTY PERCENT (50%) OF THE MARKET VALUE OF THE STRUCTURE, THE ENTIRE STRUCTURE MUST MEET THE PRESENT FEDERAL FLOOD CRITERIA FOR FINISHED FLOOR ELEVATION PLUS 1 FOOT. I AM ALSO FULLY AWARE THAT IF THE WORK AREA TO MY HOME OR BUSINESS UNDER THIS AND ANY OTHER PERMIT EQUALS OR EXCEEDS FIFTY PERCENT (50%) OF THE BUILDING AREA, THEN THE ALTERATION MUST CONFORM TO THE CURRENT CODE REQUIREMENTS OF THE FLORIDA BUILDING CODE, EXISTING BUILDINGS SECTION 604 ALTERATION LEVEL 3.

I, THE OWNER OF THE PROPERTY, UNDERSTAND THAT A PERMIT APPLICATION IS SUBJECT TO DENIAL AND A VALIDATED PERMIT OR PERMIT CARD IS SUBJECT TO REVOCATION OR MODIFICATION BASED UPON APPLICABLE DEEDS, COVENANTS, DECLARATIONS, EASEMENTS AND ANY OTHER LEGAL RESTRICTION. BY ISSUING A PERMIT, THE VILLAGE MAKES NO REPRESENTATION AS TO THE EXISTENCE OR VALIDITY OF ANY PROPERTY RESTRICTION.

**WARNING TO OWNER:** YOUR FAILURE TO RECORD A NOTICE OF COMMENCEMENT MAY RESULT IN YOU PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. IF YOU ARE SPENDING MORE THAN $2,500 OR INTEND TO OBTAIN FINANCING, YOU MAY WISH TO CONSULT WITH YOUR ATTORNEY OR LENDER BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT. THE NOTICE OF COMMENCEMENT MUST BE RECORDED AT: 22 N.W. 1ST STREET, 1ST FLOOR (305) 275-1155 EXTENSION 6. ONCE RECORDED, THE NOTICE OF COMMENCEMENT MUST BE POSTED AT THE JOB SITE IN ACCORDANCE WITH SECTION 713.35 OF FLORIDA STATUTES

**STATE OF FLORIDA, COUNTY OF MIAMI-DADE**

DocuSigned by: Lisa McDonagh
SIGNATURE OF OWNER

Lisa McDonagh
PRINT NAME SWORN TO AND SUBSCRIBED BEFORE ME THIS 25 DAY OF October 20 25

Laura Taub
SIGNATURE OF NOTARY PUBLIC, STATE OF FLORIDA
SEAL:

PERSONALLY KNOWN ___ OR, PRODUCED IDENTIFICATION ___
TYPE OF IDENTIFICATION PRODUCED:

Notary Public State of Florida
Laura Maria Toubes
My Commission HH 450641
Expires 10/3/2027

**STATE OF FLORIDA, COUNTY OF MIAMI-DADE**

SIGNATURE OF CONTRACTOR QUALIFIER

Giorgio Balli
PRINT NAME SWORN TO AND SUBSCRIBED BEFORE ME THIS 25 DAY OF October 20 25

Laura Taub
SIGNATURE OF NOTARY PUBLIC, STATE OF FLORIDA
SEAL:

PERSONALLY KNOWN ___ OR, PRODUCED IDENTIFICATION ___
TYPE OF IDENTIFICATION PRODUCED: Expires 10/3/2027

Notary Public State of Florida
Laura Maria Toubes
My Commission HH 450641

Miami Dade County Department of Regulatory and Economic Resources - Job Copy
2025004680 - 6/27/2025 8:28:53 AM
Permit Application.pdf

ePayment

# Thank You For Your Payment!

- RECEIPT COPY -

| | |
|---|---|
| Order Date | **6/26/2025** |
| Order Time | **4:01:16 AM** |
| Transaction Number | **260625O39-02F7A631-D293-40E1-902D-9AE85FE913FC** |
| Authorization Number | **228368** |
| Payment Option | **Credit Card** |
| Name | **Lisa McDonough** |
| ***Payment Item(s)*(1)** | **$1,420.00** |
| X2025126104 | **$1,420.00** |
| Job Address | **10635 SW 63 AVE** |
| TOTAL | **$1,420.00** |

Thursday, June 26, 2025 at 4:02:00 AM

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**Receipt RWK 6-26-2025.pdf**

MDC # M2025004680
Project: GS JPD 10635 LLC residence.
10635 SW 63 AV, Village of Pinecrest, FL

MDC # M2025004680
DERM PAVING & DRAINAGE

## Revision 1 Narrative and Response to Civil/Drainage Comments

REMARK
As per the Florida administrative Code (FAC) rule 62-6.005(1)(f) septic systems must maintain fifteen feet setback from the design high-water line of retention areas, detention areas, or swales designed to contain standing or flowing water for less than 72 hours after a rainfall or the design high-water level of normally dry drainage ditches or normally dry individual-lot stormwater retention areas. Any proposed swale area must be located at a minimum 15 feet away from the existing drain field and septic tank based on the above.
RE: *Any proposed dry retention area in this project was located at least 20-ft away from the existing drain field and septic tank*

REMARK
This plan review application is for the construction of a new single-family residence on a vacant lot.-Please provide a signed and sealed grading plan with existing/proposed elevations to demonstrate that the stormwater of a 5year/1 hour storm event will be retained on-site and not cause water to overflow into adjacent properties or public rights of way. Provide details of any proposed swale areas, berms, etc including cross-section details demonstrating the proposed grade transition with the adjacent properties.
*RE: Please refer to the Drainage Report. On the first 2 pages the Drainage Calculations to demonstrates that the stormwater of a 5year/1 hour storm event will be retained on-site and not cause water to overflow into adjacent properties or public rights of way.*
*Please refer also to the Paving, Grading and Drainage Plan (Sheet C-1) 5 sections provided showing that the grade sloping from the PL (property line) to inward with a low point away from the PL and a PL perimeter berm will retain the runoff.*

**Raul Wainer, PE**
**21011 NE 32nd. Avenue**
**Aventura, FL 33180**
**Ph (305) 332-8881**

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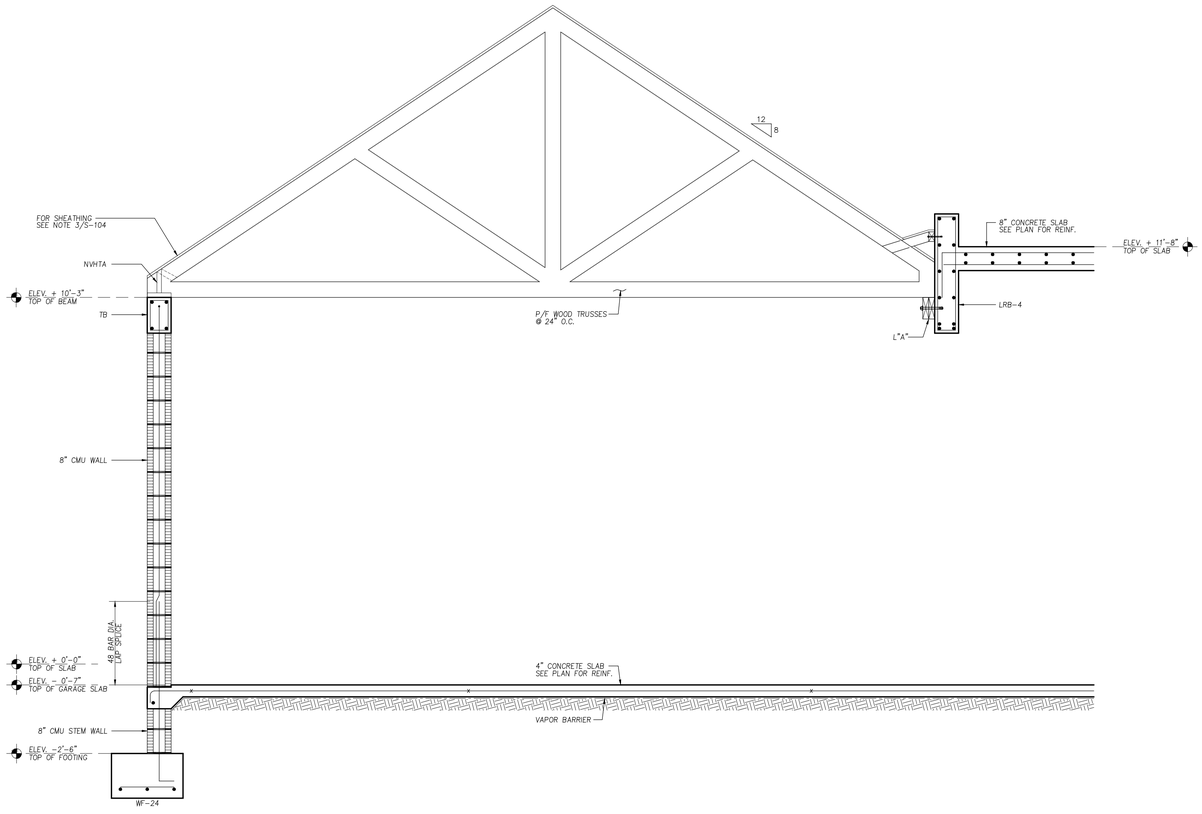
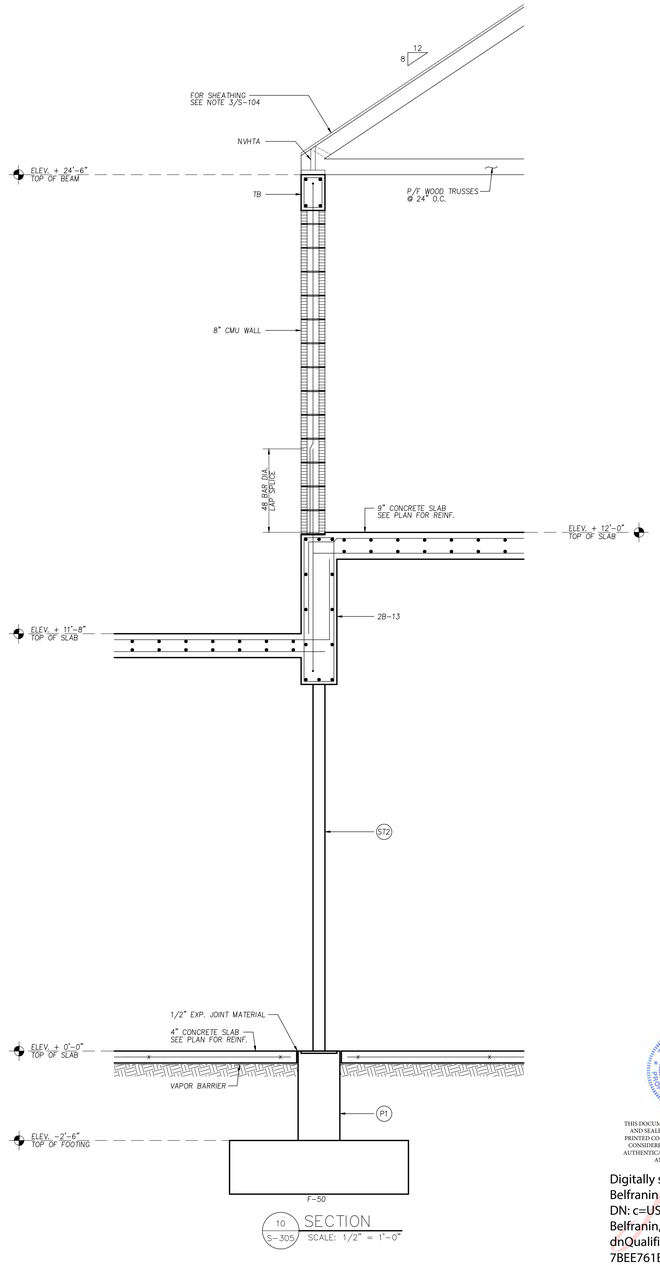
**2025004680 - 6/27/2025 8:28:53 AM**
**Response to DERM Drainage Comments RWK 3.14.2025.pdf**




9 S-305 SECTION
SCALE: 1/2" = 1'-0"




10 S-305 SECTION
SCALE: 1/2" = 1'-0"

# RESIDENCE: GS JPD 10635 LLC

10635 SW 63 AV
MIAMI, FL

SEAL


BALLI-TRAUTMAN ARCHITECTS LLC -AA26002968

GIORGIO LUIGI BALLI -AR13951
DAVID SCOTT TRAUTMAN -AR15045


**REVISIONS**

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**SCHEMATIC SET**

BALLI - TRAUTMAN
ARCHITECTURE INTERIORS CONSTRUCTION

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| JOB NUMBER: | |
| CHECKED BY: | GB |
| ISSUE DATE: | 11/11/2024 |
| SCALE: | AS NOTED |

SHEET TITLE

SECTIONS
9 & 10

SHEET NUMBER

S305


ZVONIMIR BELFRANIN LICENSE No 33074 STATE OF FLORIDA PROFESSIONAL ENGINEER

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Zvonimir T. Belfranin, P.E.
Consulting Structural Engineer
P.E. # 33074
4836 S.W. 74 CT.,MIAMI, FLORIDA 33155
(305) 669-0255
BELFRANIN@AOL.COM



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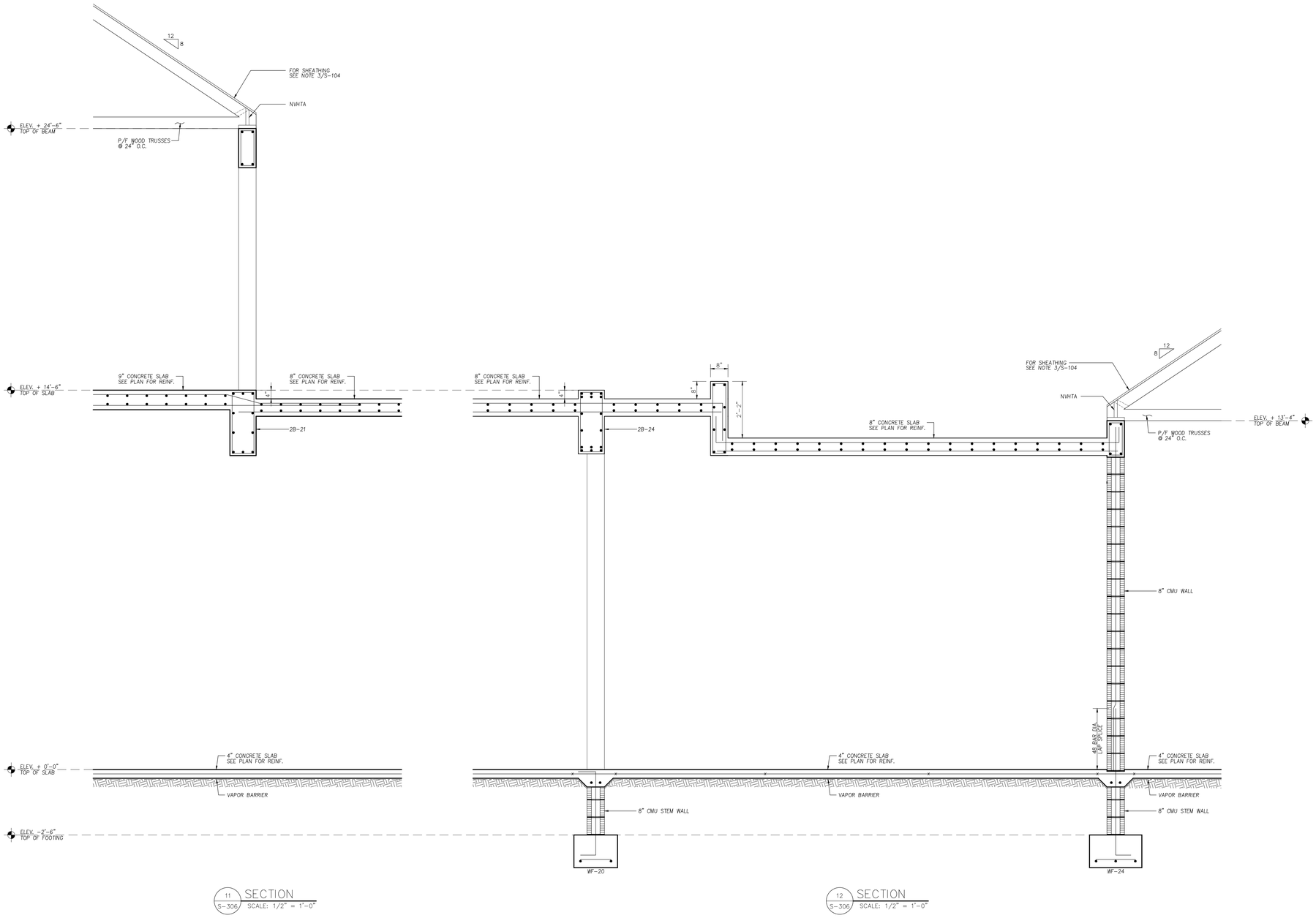


11 S-306 SECTION
SCALE: 1/2" = 1'-0"

12 S-306 SECTION
SCALE: 1/2" = 1'-0"

# RESIDENCE: GS JPD 10635 LLC

10635 SW 63 AV
MIAMI, FL

SEAL


BALLI-TRAUTMAN ARCHITECTS LLC -AA26002968

GIORGIO LUIGI BALLI -AR13951
DAVID SCOTT TRAUTMAN -AR15045


**REVISIONS**

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**SCHEMATIC SET**

BALLI - TRAUTMAN
ARCHITECTURE INTERIORS CONSTRUCTION

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SHEET TITLE

SECTIONS
11 & 12

SHEET NUMBER

S306


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Zvonimir T. Belfranin, P.E.
Consulting Structural Engineer
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BELFRANIN@AOL.COM



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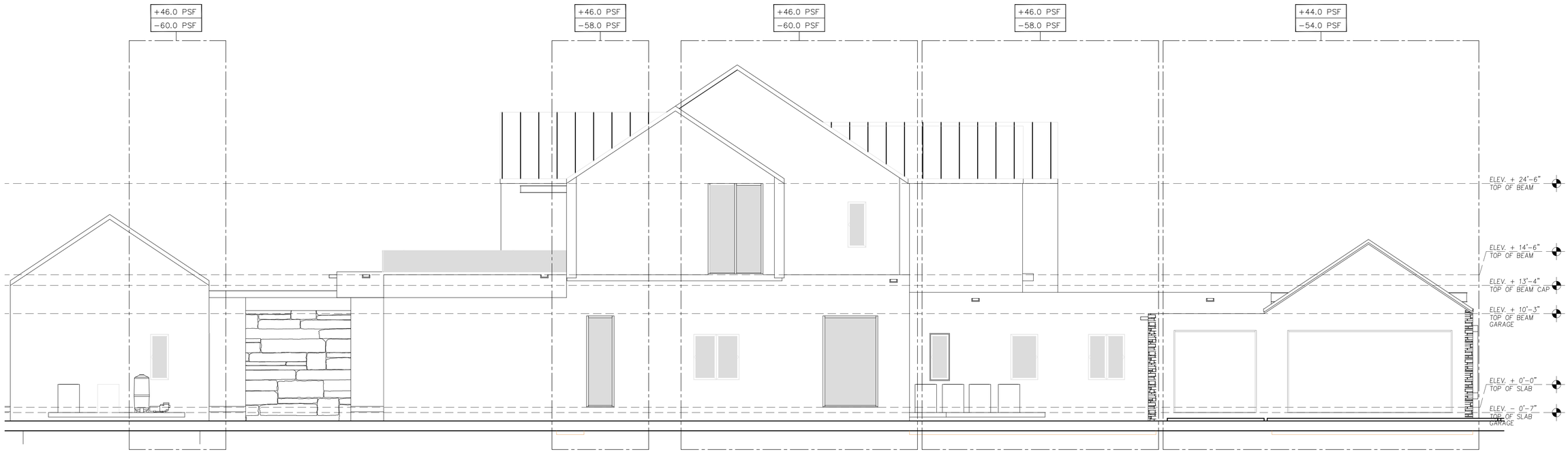
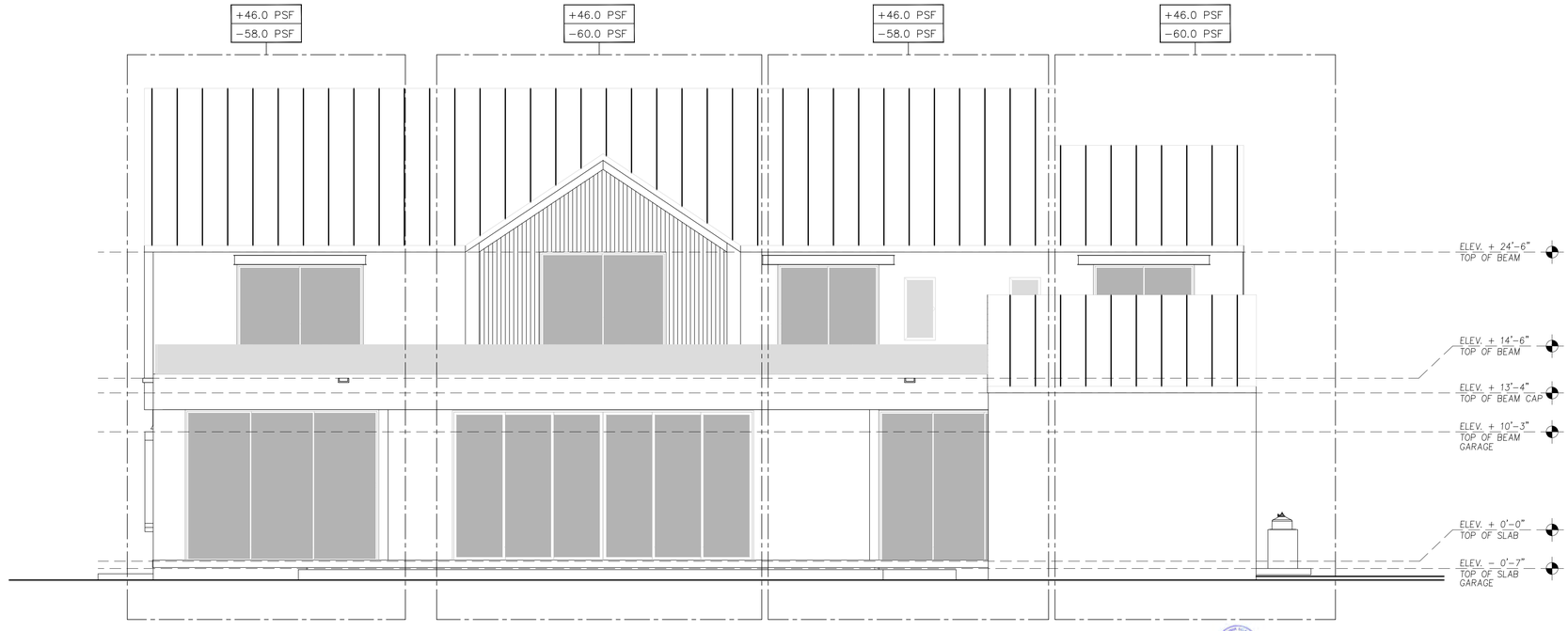



1 North Architectural Building Elevation
3/16" = 1'-0"




2 East Architectural Building Elevation
3/16" = 1'-0"

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Zvonimir T. Belfranin, P.E.
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4836 S.W. 74 CT.,MIAMI, FLORIDA 33155
(305) 669-0255
BELFRANIN@AOL.COM

# RESIDENCE: GS JPD 10635 LLC

10635 SW 63 AV
MIAMI, FL

SEAL

BALLI-TRAUTMAN ARCHITECTS LLC -AA26002968

GIORGIO LUIGI BALLI -AR13951
DAVID SCOTT TRAUTMAN -AR15045

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**SCHEMATIC SET**

BALLI - TRAUTMAN
ARCHITECTURE INTERIORS CONSTRUCTION

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SHEET TITLE

NORTH AND EAST ELEVATIONS

SHEET NUMBER

S400

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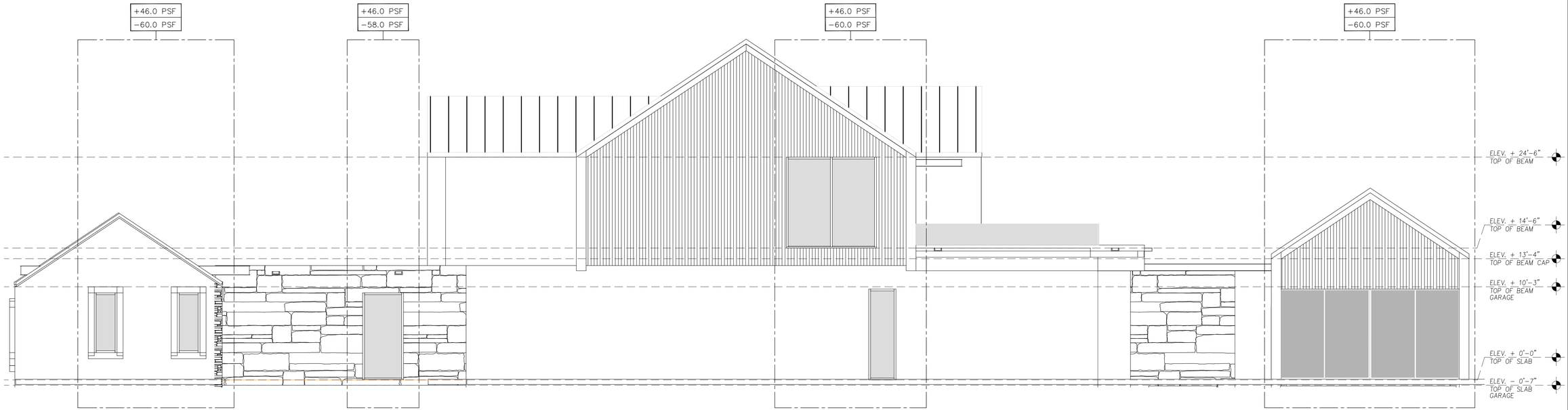


1 South Architectural Building Elevation
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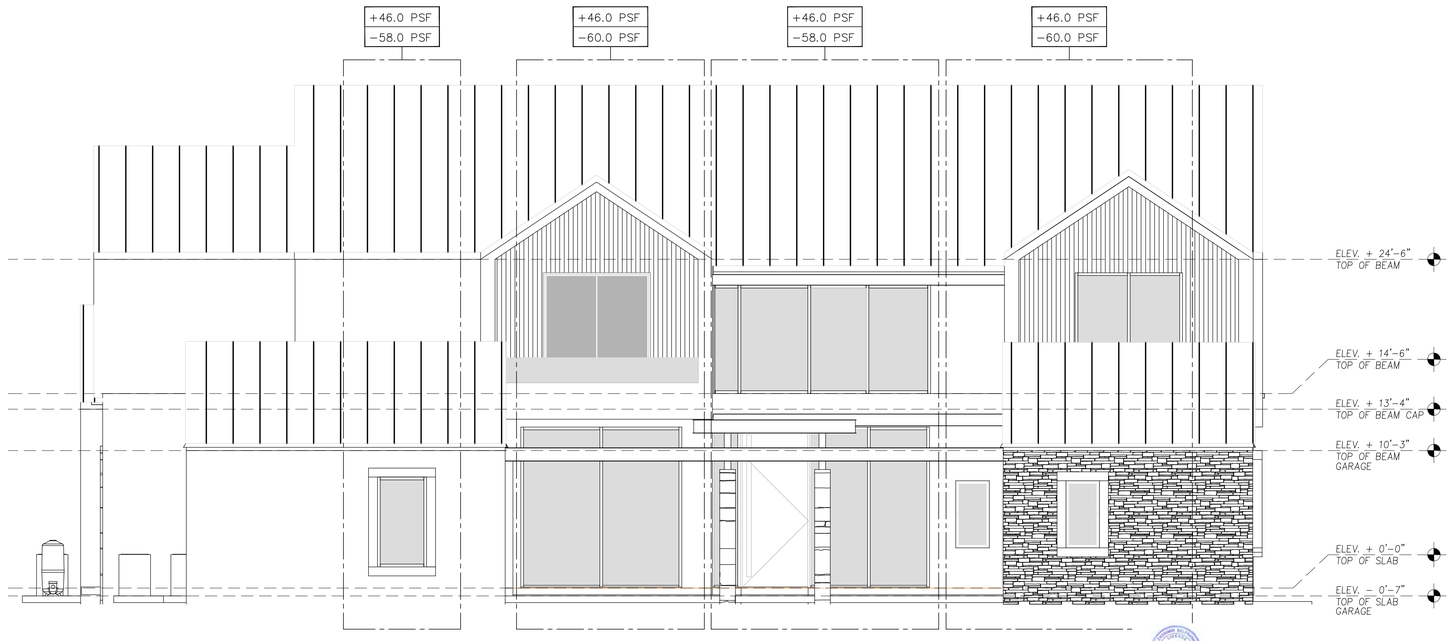


2 West Architectural Building Elevation
3/16" = 1'-0"

# RESIDENCE: GS JPD 10635 LLC

10635 SW 63 AV
MIAMI, FL

SEAL


BALLI-TRAUTMAN ARCHITECTS LLC -AA26002968

GIORGIO LUIGI BALLI -AR13951
DAVID SCOTT TRAUTMAN -AR15045


**REVISIONS**

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**SCHEMATIC SET**

BALLI - TRAUTMAN
ARCHITECTURE INTERIORS CONSTRUCTION

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SHEET TITLE

## SOUTH AND WEST ELEVATIONS

SHEET NUMBER

# S401


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Date: 2024.12.02 13:57:16 -05'00'


Zvonimir T. Belfranin, P.E.
Consulting Structural Engineer
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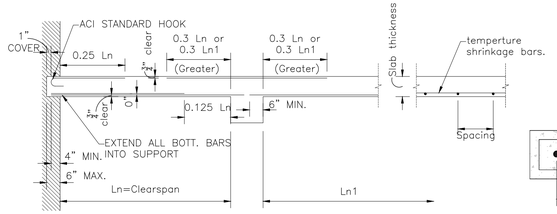
TABLE 1

MINIMUM EXTENSIONS FOR REINFORCEMENT IN SLABS WITHOUT BEAMS. (TWO WAYS SLABS)

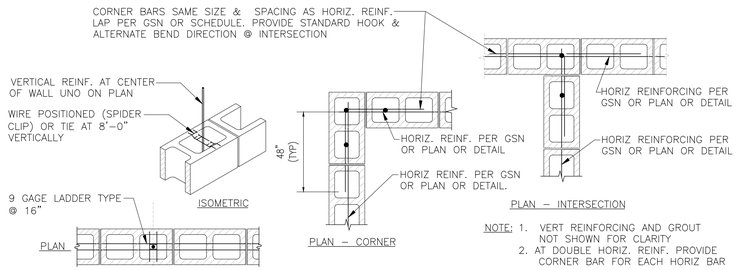
| STRIP | LOCATION | MINIMUM PERCENT As AT SECTION | WITHOUT DROP PANELS | WITH DROP PANELS |
|---|---|---|---|---|
| COLUMN STRIP | TOP | 50 | 0.30 Ln, 0.20 Ln | 0.30 Ln, 0.20 Ln |
| | | REMINDER | | |
| | BOTTOM | 100 | 6" CONTINUOUS BARS, SPLICES SHALL BE PERMITED IN THIS REGION | |
| MIDDLE STRIP | TOP | 100 | 0.22 Ln | 0.22 Ln |
| | BOTTOM | 50 | 6", Max. 1.15 Ln | |
| | | REMINDER | | |

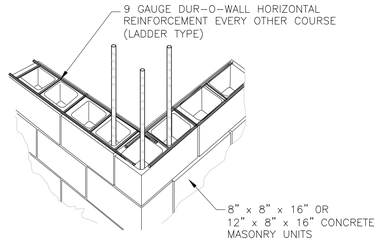
C1 CLEAR SPAM – Ln, FACE OF SUPPORT, CENTER TO CENTER SPAM

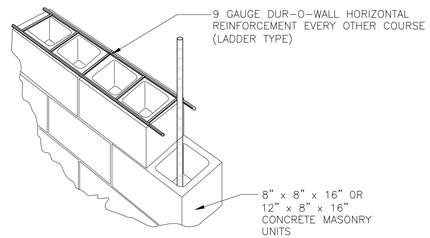



## RECOMMENDED EXTENSIONS FOR REINFORCEMENT IN SLABS WITH BEAMS (ONE WAY SLABS) DETAIL

SCALE: N.T.S.

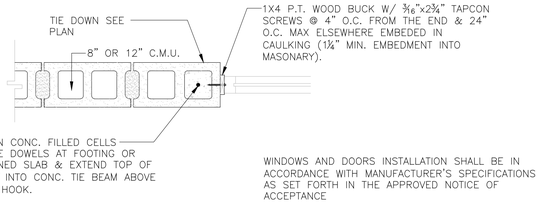



## TYP. DUR-O-WALL DETAIL

SCALE: N.T.S.




## VERTICAL REINFORCING IN MASONRY

SCALE: N.T.S.

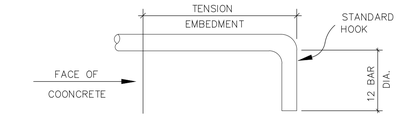
WINDOWS AND DOORS INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS AS SET FORTH IN THE APPROVED NOTICE OF ACCEPTANCE

## TYP. CORNER REINFORCING IN MASONRY WALL

SCALE: N.T.S.

TENSION EMBEDMENT LENGTH (with std. hook) SCHEDULE

| BAR SIZE | f'c = 3000 psi | | f'c = 4000 psi | | f'c = 5000 psi | | f'c = 6000 psi | | f'c = 7000 psi | | f'c = 8000 psi | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | TOP | BOT | TOP | BOT | TOP | BOT | TOP | BOT | TOP | BOT | TOP | BOT |
| # 4 | 12" | 8" | 10" | 7" | 9" | 6" | 9" | 6" | 9" | 6" | 9" | 6" |
| # 5 | 14" | 10" | 13" | 9" | 12" | 8" | 10" | 7" | 10" | 7" | 10" | 7" |
| # 6 | 17" | 12" | 14" | 10" | 13" | 9" | 13" | 9" | 12" | 8" | 12" | 8" |
| # 7 | 20" | 14" | 17" | 12" | 16" | 11" | 14" | 10" | 13" | 9" | 13" | 9" |
| # 8 | 23" | 16" | 20" | 14" | 17" | 12" | 16" | 11" | 16" | 11" | 14" | 10" |
| # 9 | 26" | 18" | 21" | 15" | 20" | 14" | 19" | 13" | 17" | 12" | 16" | 11" |
| # 10 | 28" | 20" | 24" | 17" | 23" | 16" | 20" | 14" | 19" | 13" | 17" | 12" |
| # 11 | 31" | 22" | 27" | 19" | 24" | 17" | 23" | 16 | 21" | 15" | 20" | 14" |



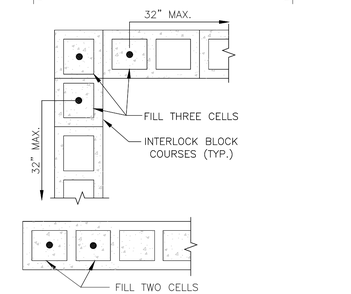

## TYPICAL TENSION EMBEDMENT DETAIL

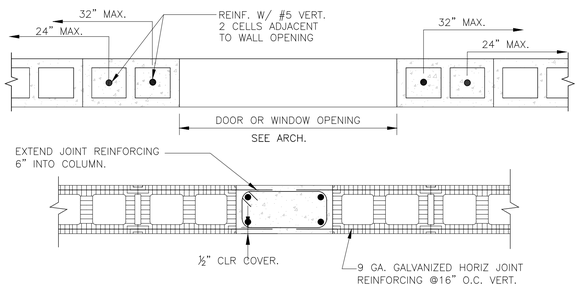
NO SCALE

| | CONCRETE COVER | CENTER TO CENTER BAR SPACING | | |
|---|---|---|---|---|
| | | < 2 DB | > 2 DB , < 3 DB | > 3 DB |
| BEAMS, COLUMNS | < 1 DB | CASE 2 | CASE 2 | CASE 2 |
| | > 1 DB | CASE 2 | CASE 1 | CASE 1 |
| ALL OTHER | < 1 DB | CASE 2 | CASE 2 | CASE 2 |
| | > 1 DB | CASE 2 | CASE 2 | CASE 1 |

TENSION LAP SPLICES

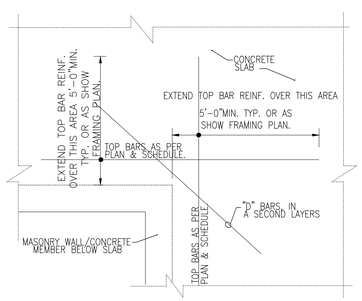
| Fɛ (PSI) / BAR SIZE | 4000 | 5000 | 6000 | 7000 | 8000 |
|---|---|---|---|---|---|
| #4 | 37" | 33" | 30" | 29" | 26" |
| #5 | 47" | 42" | 37" | 36" | 33" |
| #6 | 56" | 50" | 44" | 43" | 39" |
| #7 | 81" | 73" | 65" | 63" | 57" |
| #8 | 93" | 83" | 73" | 71" | 65" |
| #9 | 105" | 94" | 83" | 54" | 74" |
| #10 | 118" | 106" | 96" | 90" | 83" |



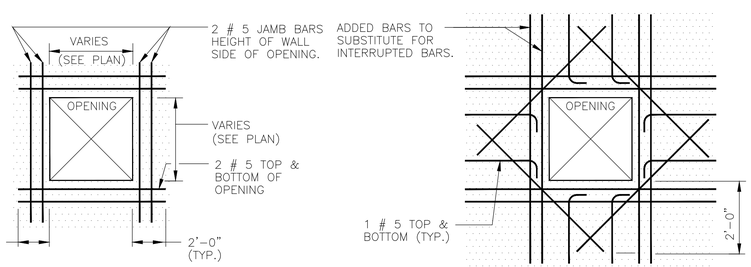

## TYP. CORNER REINFORCING IN MASONRY WALL

SCALE: N.T.S.




## TYPICAL INTERIOR CORNER CRACK PREVENTION BAR DETAIL

SCALE: N.T.S.




## TYP. SLAB OPENING DETAIL

SCALE: N.T.S.

# RESIDENCE: GS JPD 10635 LLC

10635 SW 63 AV
MIAMI, FL

SEAL


BALLI-TRAUTMAN ARCHITECTS LLC -AA26002968

GIORGIO LUIGI BALLI -AR13951
DAVID SCOTT TRAUTMAN -AR15045


**REVISIONS**

**SCHEMATIC SET**

BALLI - TRAUTMAN
ARCHITECTURE INTERIORS CONSTRUCTION

JOB NUMBER:
CHECKED BY: GB
ISSUE DATE: Issue Date
SCALE: AS NOTED

SHEET TITLE

TYP. DETAIL AND CHEDULES

SHEET NUMBER

SGN-2

GIORGIO LUIGI BALLI No. 33074 STATE OF FLORIDA PROFESSIONAL ENGINEER

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Zvonimir T. Belfranin, P.E.
Consulting Structural Engineer
P.E. # 33074
4836 S.W. 74 CT.,MIAMI, FLORIDA 33155
(305) 669-0255
BELFRANIN@AOL.COM



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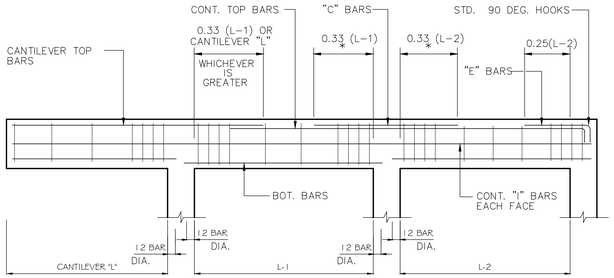



# BEAM STEEL PLACEMENT DIAGRAM

N.T.S.

NOTES :

1. WHERE NECESSARY CONT. TOP BARS SHALL BE LAPPED 24 BAR DIA. IN MIDDLE 1/3 OF SPAN.
2. * WHICHEVER IS GREATER.
3. BEAMS @ THE PERIMETER OF THE STRUCTURE SHALL HAVE AT LEAST 1/6 OF THE TENSION REINF. REQUIRED FOR NEGATIVE MOMENT AT THE SUPPORT AND 1/4 OF THE POSITIVE MOMENT REINF. REQUIRED AT MID-SPAN MADE CONTINUOUS AROUND THE PERIMETER AND TIED WITH CLOSED STIRRUPS.
4. FOR ALL EXTERIOR (PERIMETER) BEAMS PROVIDE BOTTOM BARS LAPPED W/ CLASS "B" SPLICE @ INTERMEDIATE COLUMNS AND HOOKED AT END COLS. AND TOP BARS WITH CLASS "B" LAP SPLICE AT MID-SPAN.

## GENERAL STRUCTURAL NOTES

A. REFERENCES
1. FLORIDA BUILDING CODE 2023, 8TH. EDITION
2. ASCE 7-2022
B. GENERAL

1. THE CONTRACTOR SHALL FIELD CHECK ALL DIMENSIONS ON THE STRUCTURAL DRAWINGS AND VERIFY SAME ON THE ARCHITECTURAL SET. ARCHITECTURAL DETAILS SUCH AS; SLAB DEPRESSIONS, WATERPROOFING, CURBS, MECHANICAL OPENINGS, FASCIA FRAMING AND BRACING SHALL BE INSTALLED AS SHOWN ON THE ARCHITECTURAL SET.

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SHORING AND BRACING TO ENSURE SAFE WORKING CONDITIONS AT ALL TIMES. ALL CONSTRUCTION SHALL CONFORM TO THE FLORIDA BUILDING CODE, 2020

C . CONCRETE

1. SHALL BE A MIX DESIGNED IN ACCORDANCE WITH A.C.I. 301 TO ACHIEVE A 28-DAY COMPRESSIVE STRENGTH OF 5,000 P.S.I. AND A MAXIMUM WATER-CEMENT RATIO OF 0.40 BY WEIGHT AND A SLUMP OF 4" UON ON PLAN.
2. ALL CONCRETE SHALL CONTAIN AN ENGINEER-APPROVED ASTM C-494 TYPE 'D' ADMIXTURE (WATER REDUCING RETARDER), AIR ENTRAINED AGENT SHALL CONFORM TO ASTM C-260, ACCEPTABLE AIR ENTRAINING ADMIXTURE: DAREX "AEA" BY W. R. GRACE & CO., OR APPROVED EQUAL.
3. CONCRETE ON EXPOSED BALCONIES, SLABS, BEAMS AND STAIRS SHALL HAVE THE TOP SURFACE COATED WITH "ALKYL-ALKYOXY SILANE SEALER" OR ENGINEER-APPROVED EQUAL IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS. WATER/CEMENT RATIO IN EXPOSED BALCONIES SHALL BE 0.40 BY WEIGHT. THIS CONCRETE SHALL HAVE A STRENGTH OF 5000 P.S.I.
4. TRANSPORTATION, PLACING AND CURING OF CONCRETE SHALL COMPLY WITH A.C.I. 318 BUILDING CODE (2014)
5. ALL CONCRETE STRUCTURAL COMPONENTS SHALL HAVE CONCRETE STRENGTH TESTED IN ACCORDANCE WITH A.S.T.M. STANDARDS, F.B.C. 2020, AND A.C.I. 318. TEST CYLINDERS MUST BE TAKEN EVERY 50 CUBIC YARDS ON CONCRETE PRIOIR TO PLACEMENT. TESTING LAB SHALL PROVIDE COPIES OF CONCRETE TEST RESULTS TO ENGINEER'S OFFICE FOR REVIEW.
6. CONCRETE MIX DESIGN SHALLBE SUBMITTED TO ENGINEERS OFFICE FOR REVIEW.
7. CONTRACTOR SHALL CHECK ALL DRAWINGS AND APPLICABLE MANUFACTURER'S SHOP DRAWINGS FOR LOCATION OF ALL EMBEDDED ITEMS, SUCH AS PIPE SLEEVES, ANCHOR BOLTS, ETC. PRIOR TO PLACING CONCRETE.

8. UNLESS OTHERWISE NOTED ON PLANS, MINIMUM CONCRETE COVER TO REINFORCING STEEL SHALL BE MAINTAINED IN ACCORDANCE WITH CHAPTER 7, SECTIONS 7.7.1, 7.7.2 & 7.7.3 OF ACI 318 EDITION. SPECIFIC CONCRETE COVERS ARE GIVEN IN THE FOLLOWING:

| | |
|---|---|
| GRADE BEAMS: | BOTT. = 3" CLEAR |
| | TOP = 2" CLEAR TO TIES |
| | SIDE = 2" CLEAR TO TIES |
| SLAB ON GRADE: | BOTT. = 2" CLEAR WHEN POURED ON 6" MIL VAPOR BARRIER |
| | TOP = 1 1/2" CLEAR |
| 1ST AND 2ND FLOOR SLAB: (INTERIOR, PROTECTED) | BOTT. = 3/4" CLEAR |
| | TOP = 3/4" CLEAR |
| (EXTERIOR , UNPROTECTED) | BOTT. = 1" CLEAR |
| | TOP = 1 1/2" CLEAR |
| COLUMNS & BEAMS: | AS SHOWN ON DETAILS |

9. CONC. DESIGN MIX SHALL BE REVIEWED & APPROVED BY ENGINEER OF RECORD PRIOR PLACING ANY DESIGN MIX.

D. REINFORCING STEEL

1. SHALL BE DEFORMED BARS, FREE FROM LOOSE RUST AND SCALE, & CONFORM TO A.S.T.M. A615 GRADE 60.
2. ALL ACCESSORIES SHALL HAVE UPTURNED LEGS, AND BE PLASTIC DIPPED AFTER FABRICATION. ACCESSORIES FOR REINFORCING SHALL BE INSTALLED IN ACCORDANCE WITH A.C.I. 315.
3. SUPPORT BARS SHALL BE #5 OR GREATER AND NOT SPACED MORE THAN 4'-0" O.C. SUPPORT BARS AND ENDS OF MAIN REINFORCING SHALL NOT EXTEND MORE THAN 1'-8" PAST OUTERMOST CHAIR OR SUPPORT

4. A MINIMUM OF 3 SUPPORT BARS AND 3 INDIVIDUAL HIGH CHAIRS FOR EACH SUPPORT BAR SHALL BE PROVIDED FOR TOP REINFORCING.
5. ALL PLACEMENT OF REINFORCING BARS SHALL BE IN ACCORDANCE WITH THE MANUAL OF STANDARD PRACTICE OF THE CONCRETE REINFORCING STEEL INSTITUTE.
6. PLASTIC TIPPED COLUMN SPACERS SHALL BE PROVIDED FOR VERTICAL COLUMN REINFORCING STEEL, SUCH THAT A 2" MINIMUM CLEARANCE IS MAINTAINED.

E. STRUCTURAL STEEL

1. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING GRADES:
a. ALL WF, ANGLE BASE PLATES, CONN. PLATES (UON) --- ASTM A36 (FY=36 KSI)
b. STRUCTURAL TUBE ----------ASTM A500, GRADE B (FY=46 KSI)
c. STEEL PIPE----------ASTM A53, GRADE B (FY=36 KSI)
d. ANCHOR BOLTS (U.O.N.)----------ASTM A307
2. ALL STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED, CORROSION PROTECTED & ERECTED IN ACCORDANCE WITH THE AISC CODE OF STANDARD PRACTICE, LATEST EDITION, EXCEPT AS MODIFIED IN THES ENOTES. PROVIDE IN SHOP ONE COAT OF RUST INHIBITING PAINT FOR ALL EXPOSED STRUCTURAL STEEL.
3. ALL EXTERIOR COLUMNS, BASE & CAP PLATES SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION.
4. ALL ANCHOR BOLTS, HEADED STUDS SHALL BE HOT DIPPED GALVANIZED EXCEPT THAT EXPANSION BOLTS FOR REAR EXTERIOR COLUMNS SHALL BE TYPE 304 STAINLESS STEEL AS MANUFACTURED BY RAMSET/REDHEAD.
5. CONNECTIONS SHALL BE BOLTED/WELDED AS SHOWN ON PLANS. THE FABRICATOR IS RESPONSIBLE FOR THE DESIGN OF CONNECTIONS NOT SHOWN ON THE DRAWINGS. GENERALLY, CONNECTIONS SHOWN ON THE STRUCTURAL DRAWINGS ARE SCHEMATIC AND ARE ONLY INTENDED TO SHOW THE RELATIONSHIP OF MEMBERS CONNECTED.

6. UNLESS OTHERWISE NOTED OR SHOWN ON PLANS, CONNECTIONS AT BEAM/COLUMN AND BEAM/WALL SHALL BE DESIGNED FOR TWO-THIRDS OF THE ALLOWABLE LOAD ON THE MEMBER, AS DEFINED IN THE AISC TABLE FOR ALLOWABLE LOADS ON BEAMS.
7. GROUT FOR COLUMN BASE PLATES SHALL BE NON-SHRINK, NON-METALLIC GROUT SUCH AS MASTER FLOW 713, AS MANUFACTURED BY MASTER BUILDERS OR APPROVED EQUAL (5000 PSI MINIMUM)
8. ALL EXPOSED STRUCTURAL STEEL MEMBERS SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION. TOUCH-UP IN FIELD AT WELDS AS REQUIRED.

F. WELDING

ALL WELDING TO BE DONE BY CERTIFIED WELDERS. WELDING SHALL BE MADE WITH E70XX ELECTRODES AND CONFORM TO THE CURRENT RECOMMENDATIONS OF THE A.I.S.C. AND THE AMERICAN WELDING SOCIETY.

G. MASONRY

1. CONCRETE MASONRY UNITS SHALL COMPLY WITH THE PROVISIONS OF T HE STANDARD SPECIFICATION FOR DESIGN AND CONSTRUCTION OF LOAD BEARING CONCRETE MASONRY, NCMA TR-75B AND ACI 530.1.
2. HOLLOW MASONRY UNITS SHALL CONFORM TO ASTM C-90, TYPE-1, "STANDARD SPECIFICATIONS FOR HOLLOW LOAD BEARING CONCRETE MASONRY UNITS"
3. MORTAR SHALL CONFORM TO ASTMC-270, TYPE 'M' WITH A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS OF 2500 PSI.
4. HORIZONTAL JOINT REINFORCING SHALL BE STANDARD NO. 9 LADDER TYPE FOR 8" THICK MASONRY UNITS, AS MANUFACTURED BY "DUR-O-WAL", HOT DIPPED GALVANIZED, OR ENGINEER APPROVED EQUAL PLACED AT EVERY 2ND BLOCK COURSE (16" VERTICALLY) FOR ALL INTERIOR AND EXTERIOR WALLS. THE JOINT REINFORCING SHALL EXTEND 8" INTO ADJACENT COLUMNS.
5. WHEN COLUMNS ARE CONSTRUCTED FIRST, BLOCK AND COLUMN SHALL BE TIED THRU 20 GAUGE GALVANIZED CORRUGATED DOVETAIL SLOTS AND 1" X 5" X 16 GA. GALVANIZED CORRUGATED DOVETAIL ANCHORS AT THE SAME LOCATION AND SPACING AS THE HORIZONTAL JOINT REINFORCING.LED IN
6. WHENEVER ANCHOR BOLTS ARE TO BE SET IN MASONRY, TWO CELLS AT THE SETTING LOCATION SHALL BE FILLED WITH CONCRETE.
7. MAXIMUM POUR LIFT FOR MASONRY UNITS AND GROUT POUR HEIGHT SHALL BE 4'-0".
8. SLUMP 9" + 1" FOR GROUT
9. REFER TO ADDITIONAL REINFORCING NOTES ON FLOOR PLANS.
10. COMPRESSIVE STRENGTH OF UNIT MASONRY SHALL BE MIN. OF 1900 PSI RESULTING IN f'm = 1500 PSI
11. COMPRESSIVE STRENGTH OF GROUT SHALL BE 3,000 PSI @ 28 DAYS

H. NOA/SPECIALTY ENGINEER

1. ALL PRE-ENGINEERED, PREMANUFACTURED ITEMS REQUIRE MIAMI-DADE NOTICE OF APPROVAL (NOA). CERTAIN ENGINEERED ITEMS REQUIRE ANALYSIS, DESIGNS, DRAWINGS & DETAILS TO BE PROVIDED BY THE CONTRACTOR'S/MANUFACTURER'S SPECIALTY ENGINEER(S) REGISTERED TO PRACTICE IN THE STATE OF FLORIDA. THE SPECIALTY ENGINEER'S SERVICE MAY ALSO BE REQUIRED WHEN REQUESTED BY THE ENGINEER OF RECORD (EOR). THESE ITEMS INCLUDE, BUT NOT LIMITED TO:
2. FOR ITEMS THAT REQUIRE ANALYSIS, DESIGNS, DRAWINGS & DETAILS BY THE SPECIALTY ENGINEER, THE CONTRACTOR SHALL PROVIDE ALL SUCH SERVICES THRU HIS SPECIALTY ENGINEER(S) AT NO ADDITIONAL COST TO THE OWNER OR TO THE ARCHITECT/ENGINEER. ALL SUCH CALCULATIONS AND DRAWINGS SHALL BE DULY SIGNED AND SEALED BY THE CONTRACTOR'S SPECIALTY ENGINEER(S).

I. SHOP DRAWINGS

PRIOR TO FABRICATION, SUBMIT TO THE STRUCTURAL ENGINEER FOR REVIEW, FOUR SETS OF SHOP DRAWINGS FOR ALL REINFORCING & STRUCTURAL STEEL (CERTIFIED MILL TESTS ARE ALSO REQUIRED PRIOR TO ERECTION). FOR COMPONENTS OUTLINED IN NOTES 'J', SUBMIT FOUR SETS OF SHOP DRAWINGS & DESIGN CALCULATIONS SIGNED & SEALED BY FABRICATORS SPECIALTY ENGINEER REGISTERED TO PRACTICE IN THE STATE OF FLORIDA.

J. BRACING

1. THE FRAME SHALL BE BUILT TRUE AND PLUMB AND TEMPORARY BRACING SHALL BE INTRODUCED WHEREEVER NECESSARY TO TAKE CARE OF ALL LOADS TO WHICH THE STRUCTURE MAY BE SUJECTED. INCLUDING EQUIPMENT AND OPERATION OF SAME. SUCH BRACING SHALL BE THE REPSONSIBILITY OF THE GENERAL CONTRACTOR AND SHALL BE LEFT IN PLACE AS LONG AS REQUIRED FOR SAFETY.
2. PRECAST STRUCTURES MUST HAVE ERECTION BRACING TO SUSTAIN WIND VELOCITY OF 75 M.P.H. AND CONTRACTOR SHALL PROVIDE BRACING SHOP DRAWINGS SIGNED AND SEALED BY PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF FLORIDA.

K. WOOD

1. WOOD MEMBERS IN CONVENTIONAL FRAMING SHALL HAVE A MINIMUM ALLOWABLE BENDING STRESS OF 1,200 P.S.I.; MINIMUM ALLOWABLE SHEAR STRESS OF 70 P.S.I. AND MODULUS OF ELASTICITY OF 1,200,000 P.S.I. AT 19 CONTENT IN ACCORDANCE WITH A.I.T.C. STANDARDS.
2. TRUSSES TO BE DESIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF FLORIDA FOR LOADS PER APPLICABLE BUILDING CODE AND/OR AS SHOWN ON DRAWINGS.
3. WOOD MEMBERS IN CONVENTIONAL FRAMING SHALL BE SOUTHERN YELLOW PINE #2 WITH A 19 % MOISTURE CONTENT.

L. SHORING

1. FORMS AND SHORING FOR CONCRETE SLABS AND BEAMS SHALL BE DESIGNED TO WITHSTAND THE DEAD LOAD OF CONCRETE AND THE ANTICIPATED CONSTRUCTION LOADS.
2. WHEN CASTING A SLAB, THERE SHALL BE SHORING BELOW IT CONTINUOUS TO THE GROUND.
3. IN NO CASE SHALL SLAB AND BOTTOM BEAM FORMS BE STRIPPED EARLIER THAN 21 DAYS AFTER PLACEMENT AND UNTIL THE COMPRESSIVE STRENGTH OF 3,200 P.S.I. (FOR 4,000 P.S.I.) AND 4,000 P.S.I. (FOR 5,000 P.S.I.) HAS BEEN ATTAINED.
4. THE SYSTEM OF SHORING SHALL BE INSPECTED AND APPROVED BY THE CONTRACTOR'S SPECIALTY ENGINEER PRIOR TO INSPECTION OF BY THE THRESHOLD/SPECIAL INSPECTOR.
5. DESIGN AND CONSTRUCTION OF FORMWORK AND SHORING SHALL COMPLY WITH THE A.C.I. 318 BUILDING CODE (LATEST EDITION) AND BE ENTIRELY THE REPSONSIBILITY OF THE GENERAL CONTRACTOR.
6. SHORING DRAWINGS SHALL BE PROVIDED BY GENERAL CONTRACTOR AND SHALL BE DESIGNED, SIGNED AND SEALED BY THE CONTRACTOR'S SPECIALTY ENGINEER REGISTERED TO PRACTICE IN THE STATE OF FLORIDA.

M. LINTELS

ALL DOOR AND WINDOW OPENINGS IN LOAD BEARING AND NON-LOAD BEARING MASONRY WALLS SHALL HAVE EITHER CAST-IN-PLACE OR PRECAST CONCRETE LINTELS, IF P/C LINTELS ARE USED, PROVIDE MIAMI-DADE NOA'S FOR ALL SUCH LINTELS. UNLESS OTHERWISE NOTED, PROVIDE CAST-IN-PLACE LINTELS.

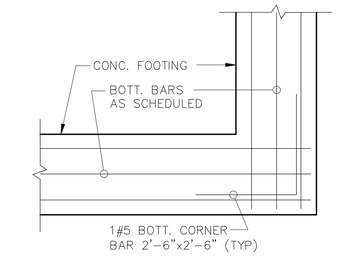
N. CORROSION PROTECTION

1. FOR ALL CONCRETE BALCONIES & EXPOSED CONCRETE PROVIDE WATER BASE SEALER EQUAL TO ENVIROSEAL 40 BY HYDROZO.

O. WOOD TRUSS GENERAL NOTES:
THE TRUSS LAYOUT SHOWN ON THESE PLANS ARE SCHEMATIC IN NATURE. HOWEVER, THE SUPPORTING SUPERSTRUCTURE HAS BEEN DESIGNED UNDER THE ASSUMPTION THAT THE FRAMING SCHEME SHOWN WILL PARALLEL FINAL TRUSS DESIGNERS LAYOUT. THIS FRAMING SCHEME (DIRECTION OF TRUSSES, MAJOR G.T. BEARING POINTS, ETC.) CAN BE MODIFIED ONLY AFTER OBTAINING PERMISSION FROM THE ENGINEER OF RECORD WHO MUST REVIEW PROPOSED CHANGES AND AUTHORIZE STRUCTURAL REVISIONS ACCORDINGLY. FINAL SIGNED AND SEALED ENGINEERED TRUSS DESIGN MUST BE SUBMITTED TO THIS OFFICE FOR REVIEW AS PER GENERAL NOTES. TRUSS DESIGNERS MUST PROVIDE ALL TRUSS TO TRUSS CONNECTIONS AS PART OF THIS DESIGN.

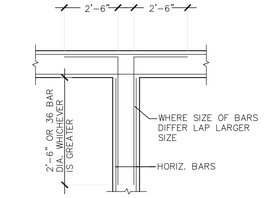
ADDITIONAL NOTES FOR TIE BEAMS :

1. TYP. TIE BEAM REINF. SHALL BE CONT. & LAPS FOR TOP & BOTT. REINF. SHALL BE STAGGEED.
2. WHERE TIE BEAMS FORM CORNERS OR ACUTE / OBTUSE ANGLES. THE REINF. SHALL BE LAPPED W/ TOP & BOTT. 2'-6"x 2'-6" LAP BARS OF MATCHING ANGLES @ ACUTE/OBTUSE ANGLES.
3. WHERE TIE BEAM TERMINATES WITHOUT FORMING A CORNER OR ANGLES, THE TOP REINF. SHALL BE HOOKED OR EXTENDED INTO ADJACENT SLAB AS THE CASE MAY BE ( PER TYP. BEAM DIAGRAM).
4. WHERE TIE BEAM OCCURS ADJACENT TO A DESIGNED BEAM, THE TIE BEAM REINF. SHALL BE EXTENDED INTO THE DESIGNED BEAM FOR CLASS "C" LAPS.
5. UNLESS OTHERWISE NOTED TIES FOR THE TIE BEAMS SHALL BE 4 # 3@ 12" @ EA. CORNER & BEND & ON EACH SIDE OF INTERMEDIATE COLUMNS & FOR THE REMAINDER LENGTH PROVIDE # 3 @ 48" O.C.

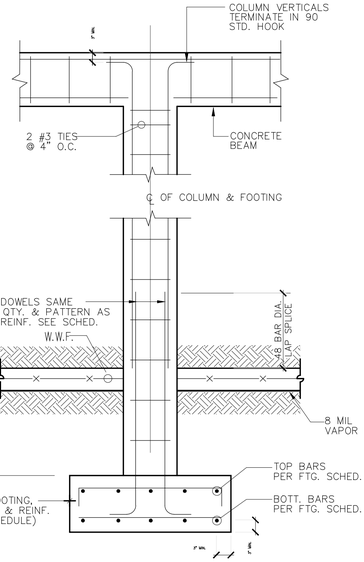



## TYP. FOOTING CORNER BAR DTL. (A)

3/4" = 1'

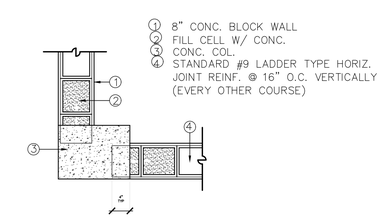



## TYP. INTERSECTION DET. FOR TIE BEAM & FTG. (B)



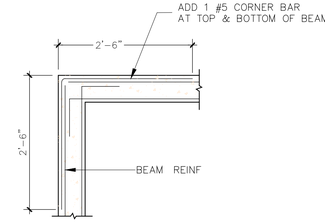

## TYP. CONCRETE COLUMN AND FOOTING DETAIL (D)

N.T.S.



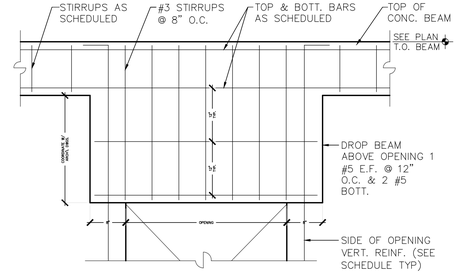

## CONC. COL. TO MASONRY CONNECTION DETAIL (C)

N.T.S.




## TIE BEAM CORNER PLAN DETAIL (E)

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




## DROP BEAM DETAIL (F)

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


Zvonimir T. Belfranin, P.E.
Consulting Structural Engineer
P.E. # 33074
4836 S.W. 74 CT.,MIAMI, FLORIDA 33155
(305) 669-0255
BELFRANIN@AOL.COM


LICENSE No. 33074 STATE OF FLORIDA PROFESSIONAL ENGINEER

THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED USING A DIGITAL SIGNATURE. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE AUTHENTICATION CODE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

Digitally signed by Zvonimir Belfranin
DN: c=US, o=Zvonimir Belfranin, dnQualifier=A01410D000001 7BEE761B5400015194, cn=Zvonimir Belfranin
Date: 2024.12.02 13:57:58 -05'00'


Miami Dade County Department of Regulatory and Economic Resources - Job Copy
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SGN.pdf


# RESIDENCE: GS JPD 10635 LLC

10635 SW 63 AV
MIAMI, FL

SEAL


BALLI-TRAUTMAN ARCHITECTS LLC -AA26002968

GIORGIO LUIGI BALLI -AR13951
DAVID SCOTT TRAUTMAN -AR15045


**REVISIONS**

**SCHEMATIC SET**

BALLI - TRAUTMAN
ARCHITECTURE INTERIORS CONSTRUCTION

| | |
|---|---|
| JOB NUMBER: | |
| CHECKED BY: | GB |
| ISSUE DATE: | Issue Date |
| SCALE: | AS NOTED |

SHEET TITLE

STRUCTURAL GENERALNOTES, AND TYP. DETAIL

SHEET NUMBER

SGN


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1533 SUNSET DRIVE SUITE 101, CORAL GABLES, FL 33143

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
ONSITE SEWAGE TREATMENT AND DISPOSAL SYSTEM

PERMIT NO. _____

## SITE EVALUATION AND SYSTEM SPECIFICATIONS

APPLICANT: GS JPD 10635 LLC AGENT: SOUTHERN SEPTIC AND LIFT STATION CORP

LOT: 2 BLOCK: 6 SUBDIVISION: HELMS COUNTRY ESTS

PROPERTY ID #: 20-5012-004-0530 [Section/Township/Parcel No. or Tax ID Number]

TO BE COMPLETED BY ENGINEER, HEALTH DEPARTMENT EMPLOYEE,OR OTHER QUALIFIED PERSON. ENGINEERS MUST PROVIDE REGISTRATION NUMBER AND SIGN AND SEAL EACH PAGE OF SUBMITTAL. COMPLETE ALL ITEMS.

PROPERTY SIZE CONFORMS TO SITE PLAN: [×] YES [ ] NO NET USABLE AREA AVAILABLE: .99 ACRES

TOTAL ESTIMATED SEWAGE FLOW: 439/940 GALLONS PER DAY [TABLE I / OTHER]

AUTHORIZED SEWAGE FLOW: 2475 GALLONS PER DAY [1500 GPD/ACRE OR 2500 GPD/ACRE]

UNOBSTRUCTED AREA AVAILABLE: 1098 SQFT UNOBSTRUCTED AREA REQUIRED: 1098 SQFT

BENCHMARK/REFERENCE POINT LOCATION: 10.9' C/L OF SW 63 AVE

ELEVATION OF PROPOSED SYSTEM SITE IS 8.4 [INCHES/FT] [ABOVE/BELOW] BENCHMARK/REFERENCE POINT

THE MINIMUM SETBACK WHICH CAN BE MAINTAINED FROM THE PROPOSED SYSTEM TO THE FOLLOWING FEATURES

SURFACE WATER: N/A FT DITCHES/SWALES: 20 FT NORMALLY WET? [ ] YES [×] NO

WELLS: PUBLIC: N/A FT LIMITED USE: N/A FT PRIVATE: N/A FT NON-POTABLE: N/A FT

BUILDING FOUNDATIONS: 46 FT PROPERTY LINES: 5 FT POTABLE WATER LINES: 169 FT

SITE SUBJECT TO FREQUENT FLOODING: [ ] YES [×] NO 10 YEAR FLOODING? [ ] YES [ ] NO

10 YEAR FLOOD ELEVATION FOR SITE: _____ FT MSL/NGVD SITE ELEVATION: 10.2 FT MSL/NGVD

SHWT 4.0

SOIL PROFILE INFORMATION SITE 1

| MUNSELL #/COLOR | TEXTURE | DEPTH |
|---|---|---|
| 10 YR 4/1 | LOAMY SAND | 0 TO 42 |
| DARK GRAY | | TO |
| 10 YR 8/3 | OOLITIC LIME | 42 TO 42 |
| VERY PALE BR | | TO |
| REFUSAL AT 42" | | TO |
| | | TO |
| | | TO |
| | | TO |
| | | TO |

USDA SOIL SERIES: UDORTHENTS

SOIL PROFILE INFORMATION SITE 2

| MUNSELL #/COLOR | TEXTURE | DEPTH |
|---|---|---|
| 10 YR 4/1 | LOAMY SAND | 0 TO 42 |
| DARK GRAY | | TO |
| 10 YR 8/3 | OOLITIC LIME | 42 TO 42 |
| VERY PALE BR | | TO |
| REFUSAL AT 42" | | TO |
| | | TO |
| | | TO |
| | | TO |
| | | TO |

USDA SOIL SERIES: UDORTHENTS

OBSERVED WATER TABLE: N/A INCHES [ABOVE / BELOW] EXISTING GRADE. TYPE:[PERCHED / APPARENT]

ESTIMATED WET SEASON WATER TABLE ELEVATION: 74.4 INCHES [ABOVE / BELOW] EXISTING GRADE

HIGH WATER TABLE VEGETATION: [ ] YES [×] NO WSWT INDICATOR: [ ] YES [×] NO DEPTH: N/A INCHES

SHWT 4.0

SOIL TEXTURE/LOADING RATE FOR SYSTEM SIZING: .60 DEPTH OF EXCAVATION: 72 INCHES

DRAINFIELD CONFIGURATION: [ ] TRENCH [×] BED [ ] OTHER (SPECIFY) _____

REMARKS/ADDITIONAL CRITERIA: _____

Daniel F Gutierrez

"This item has been digitally signed and sealed by Daniel F. Gutierrez on the date adjacent to the seal. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies"

SITE EVALUATED BY: DANIEL GUTIERREZ P.E. 49086 DATE: 03-10-2025

DANIEL F. GUTIERREZ LICENSE No. 49086 STATE OF FLORIDA PROFESSIONAL ENGINEER

DEP Form 1015 (effective 10-21-2015) SYSTEM 1 Rule 64E-6.001, F.A.C. (Obsolete editions which may not be used)

Miami-Dade County Department of Regulatory and Economic Resources - 49086 Copy
2025004680 - 6/27/2025 8:28:53 AM
Site Evaluation SYSTEM 1 Rule 64E-6.001.pdf
Examiner Date Time Stamp Trade Stamp Name
VALDIVIESO, JOSE 6/24/2025 10:43:24 AM HRS Approved

# STATE OF FLORIDA
# DEPARTMENT OF ENVIRONMENTAL PROTECTION
# ONSITE SEWAGE TREATMENT AND DISPOSAL SYSTEM

PERMIT NO. _____

## SITE EVALUATION AND SYSTEM SPECIFICATIONS

APPLICANT: GS JPD 10635 LLC AGENT: SOUTHERN SEPTIC AND LIFT STATION CORP

LOT: 2 BLOCK: 6 SUBDIVISION: HELMS COUNTRY ESTS

PROPERTY ID #: 20-5012-004-0530 [Section/Township/Parcel No. or Tax ID Number]

TO BE COMPLETED BY ENGINEER, HEALTH DEPARTMENT EMPLOYEE,OR OTHER QUALIFIED PERSON. ENGINEERS MUST PROVIDE REGISTRATION NUMBER AND SIGN AND SEAL EACH PAGE OF SUBMITTAL. COMPLETE ALL ITEMS.

PROPERTY SIZE CONFORMS TO SITE PLAN: [×] YES [ ] NO NET USABLE AREA AVAILABLE: .99 ACRES

TOTAL ESTIMATED SEWAGE FLOW: 502/940 GALLONS PER DAY [TABLE I / OTHER]

AUTHORIZED SEWAGE FLOW: 2475 GALLONS PER DAY [1500 GPD/ACRE OR 2500 GPD/ACRE]

UNOBSTRUCTED AREA AVAILABLE: 1256 SQFT UNOBSTRUCTED AREA REQUIRED: 1256 SQFT

BENCHMARK/REFERENCE POINT LOCATION: 10.9' C/L OF SW 63 AVE

ELEVATION OF PROPOSED SYSTEM SITE IS 8.4 [INCHES/FT] [ABOVE/BELOW] BENCHMARK/REFERENCE POINT

THE MINIMUM SETBACK WHICH CAN BE MAINTAINED FROM THE PROPOSED SYSTEM TO THE FOLLOWING FEATURES

SURFACE WATER: N/A FT DITCHES/SWALES: 20 FT NORMALLY WET? [ ] YES [×] NO

WELLS: PUBLIC: N/A FT LIMITED USE: N/A FT PRIVATE: N/A FT NON-POTABLE: N/A FT

BUILDING FOUNDATIONS: 61 FT PROPERTY LINES: 10 FT POTABLE WATER LINES: 150 FT

SITE SUBJECT TO FREQUENT FLOODING: [ ] YES [×] NO 10 YEAR FLOODING? [ ] YES [ ] NO

10 YEAR FLOOD ELEVATION FOR SITE: _____ FT MSL/NGVD SITE ELEVATION: 10.2 FT MSL/NGVD

SHWT 4.0

SOIL PROFILE INFORMATION SITE 1

| MUNSELL #/COLOR | TEXTURE | DEPTH |
|---|---|---|
| 10 YR 4/1 | LOAMY SAND | 0 TO 42 |
| DARK GRAY | | TO |
| 10 YR 8/3 | OOLITIC LIME | 42 TO 42 |
| VERY PALE BR | | TO |
| REFUSAL AT 42" | | TO |
| | | TO |
| | | TO |
| | | TO |
| | | TO |

USDA SOIL SERIES: UDORTHENTS

SOIL PROFILE INFORMATION SITE 2

| MUNSELL #/COLOR | TEXTURE | DEPTH |
|---|---|---|
| 10 YR 4/1 | LOAMY SAND | 0 TO 42 |
| DARK GRAY | | TO |
| 10 YR 8/3 | OOLITIC LIME | 42 TO 42 |
| VERY PALE BR | | TO |
| REFUSAL AT 42" | | TO |
| | | TO |
| | | TO |
| | | TO |
| | | TO |

USDA SOIL SERIES: UDORTHENTS

OBSERVED WATER TABLE: N/A INCHES [ABOVE / BELOW] EXISTING GRADE. TYPE:[PERCHED / APPARENT]

ESTIMATED WET SEASON WATER TABLE ELEVATION: 74.4 INCHES [ABOVE / BELOW] EXISTING GRADE

HIGH WATER TABLE VEGETATION: [ ] YES [×] NO WSWT INDICATOR: [ ] YES [×] NO DEPTH: N/A INCHES

SHWT: 4'

SOIL TEXTURE/LOADING RATE FOR SYSTEM SIZING: .60 DEPTH OF EXCAVATION: 72 INCHES

DRAINFIELD CONFIGURATION: [ ] TRENCH [×] BED [ ] OTHER (SPECIFY) _____

REMARKS/ADDITIONAL CRITERIA: _____

DANIEL F. GUTIERREZ LICENSE No. 49086 STATE OF FLORIDA PROFESSIONAL ENGINEER

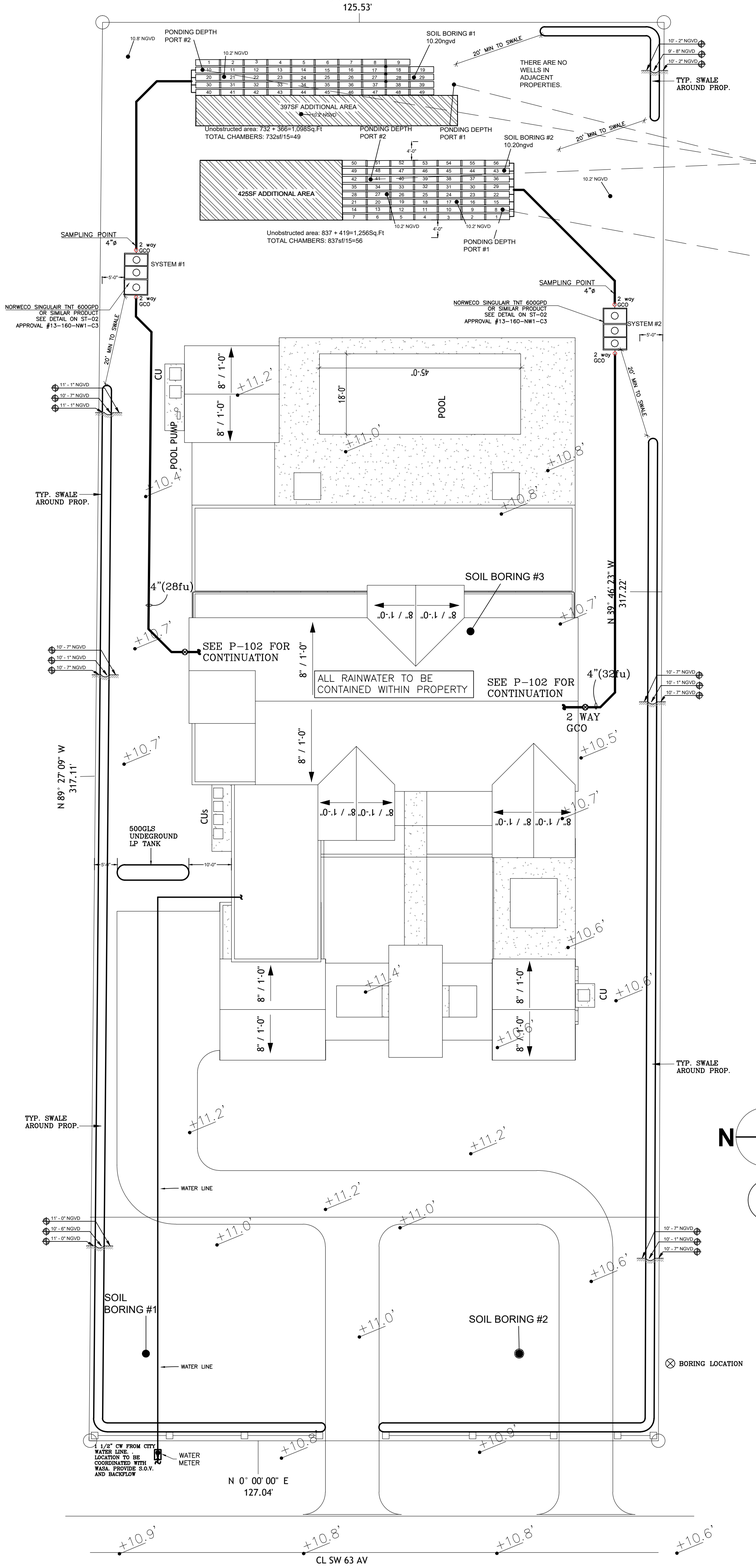
Daniel F Gutierrez

"This item has been digitally signed and sealed by Daniel F. Gutierrez on the date adjacent to the seal. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies"

SITE EVALUATED BY: DANIEL GUTIERREZ P.E. 49086 DATE: 03-10-2025

(Rule 64E-6.001, F.A.C. Forms are incorporated by reference, 10-2-14, 2-22-15, 10-2-16, 2-11-2025, 01 editions which may not be used)

Miami-Dade County Department of Regulatory and Economic Resources
2025004680 - 6/27/2025 8:28:53 AM
Site Evaluation SYSTEM 2 Rev. 2-11-2025.pdf
Examiner Date Time Stamp Trade Stamp Name
VALDIVIESO, JOSE 6/24/2025 10:42:21 AM HRS Approved
Incorporated: 62-6.004, FAC




1 PLUMBING SITE PLAN

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

| SEPTIC TANK CALCULATIONS AS PER F.A.C. 62-6.008 |
|---|
| HOUSE WITH 9,387 A/C AND 6 BEDROOMS<br>9,387-3300=6,087= 400 GPD<br>6,087/750= 9x60= 540 GPD<br>TOTAL 940 GPD |
| THERE ARE NO PERTINENT FEATURES ON ADJACENT PROPERTIES OR ACROSS THE STREET THAT MAY AFFECT THE ONSITE SEWAGE DISPOSAL AND TREATMENT INSTALLATION. |
| PROPOSED DRAIN FIELD & SEPTIC TANK SHOWN ON THIS DRAWING ARE OVER 100' AWAY FROM EXISTING ADJACENT PROPERTIES POTABLE WELLS. ALL POTABLE AND NON-PORTABLE WELLS SHALL BE OVER 100' AWAY FROM ADJACENT PROPERTIES SEPTIC TANK AND DRAINFIELD. THIS CONTRACTOR SHALL VERIFY PRIOR TO CONSTRUCTION THIS EXISTING CONDITION AND NOTIFY THIS OFFICE OF ANY CONFLICT OR CHANCE. |
| DRAINAGE FIELD CALCULATIONS AS PER F.A.C. 62-6.008 |
| DESIGN<br>BED SYSTEM ON SANDY LIMESTONE LOADING RATE 0.6 GAL/[SF/DAY]<br><br>CALCULATION (TOTAL FU=60)<br>SYSTEM #1 (BED) (28fu):<br>28F.U. of 60F.U. x 940GPD=439 GPD<br>PROVIDE MINIMUM 732 Sq.FT/Min. Unobstructed area: 1,098 Sq.Ft<br>TOTAL CHAMBERS: 732/15=49<br><br>SYSTEM #2 (BED) (32fu):<br>32 F.U. of 60F.U. x 940GPD=502 GPD<br>PROVIDE MINIMUM 837 Sq.FT/Min. Unobstructed area: 1,256 Sq.Ft<br>TOTAL CHAMBERS: 837/15=56 |
| SEWAGE WATER SYSTEM SPECS |
| UNIT CAPACITY<br>1,300 GAL MULTICHAMBERED<br>600 GALLONS TANK CAPACITY. BENCHMARK: 10.9'<br>ELEVATION OF PROPOSED SYSTEM SITE 0.7 INCHES ABOVE BENCHMARK<br>BOTTOM OF DRAINFIELD#1 TO BE 38.4 INCHES BELOW BENCHMARK<br>BOTTOM OF DRAINFIELD#2 TO BE 38.4 INCHES BELOW BENCHMARK |

MINIMUM SETBACK WICHI CAN BE MAINTAINED FROM THE PROPOSED SYSTEM TO THE FOLLOWING FEATURES:
BUILDING FOUNDATIONS 5FT
PROPERTY LINES 5FT
POTABLE WATER LINES 8FT
SITE ELEVATION 10.20' NGVD SYSTEM #1
SITE ELEVATION 10.20' NGVD SYSTEM #2
SHWT = 4' NGVD

**DETERMINATION OF OSTDS TYPE AND STANDARDS PER SECTION 24-42.7**

GROSS LOT SIZE = 43,496FT² = 0.99 ACRES
LAND USE: Residential
GROSS BUILDING AREA =11,414FT²
SEWAGE FLOW = 510 GPD
SEWAGE LOADING = 510 GPD / 0.99 ACRES = 511 GPD/ACRE

| Y | N | CRITERIA FOR OSTDS TYPE SELECTION |
|---|---|---|
| X | | PROPERTY WILL BE SERVED BY PUBLIC WATER |
| X | | PROPERTY COMPLETELY OUTSIDE WELLFIELD PROTECTION AREA |
| X | | SURFACE WATER BODIES BEYOND 1000 FEET |
| | X | SEWAGE FLOW IS LESS THAN 500 GPD FOR SFR /DUPLEX |
| | | SEWAGE FLOW IS LESS THAN 1000 GPD FOR MULTI-FAMILY/OTHER USES |
| | X | SEWAGE LOADING LESS THAN 500 GPD/ACRE |

| Y | N | OTHER CONSIDERATIONS FOR OSTDS APPROVAL |
|---|---|---|
| X | | SANITARY SEWERS NOT AVAILABLE, ABUTTING, OR OPERATIVE |
| X | | SYSTEM WILL SERVE ONLY ONE LOT |
| | | PROPERTY LINES OVER 50 FEET FROM OSTDS FOR PROPERTIES SERVED BY A POTABLE WATER WELL |

TYPE OF SYSTEM REQUIRED : TYPE 3-ADVANCE SECONDARY TREATMENT STANDARDS
TOTAL NITROGEN TREATED BY : 600 GPD NORWECO SINGULAR TNT 500 UNIT
TOTAL PHOSPHORUS TREATED BY : NO REDUCTION
FECAL COLIFORM TREATED BY : CHLORINATOR/DECHLORINATOR BIOKINETIC FILTER
SOURCE OF TREATMENT STANDARDS : FDEP TESTING PERFORMANCE DATA FOR PBTS

| TREATMENT STANDARDS | | |
|---|---|---|
| POLLUTANT | REQUIRED (mg/L) (ANNUAL AVERAGE) | PROPOSED (mg/L) (ANNUAL AVERAGE) |
| $CBOD_5$ | 10 MG/L | 4 MG/L |
| TSS | 10 MG/L | 9 MG/L |
| TN | >=50% Reduction-30 MG/L | 68% |
| TP | 10 MG/L | 10 MG/L |
| FECAL COLIFORM (cfu/100ml) | 200 CFU/100 ML | 2 CFU/100 ML |

**OSTDS CALCULATIONS PER CHAPTER 62-6 F.A.C.**

NET LOT SIZE = 40,101 FT² = 0.92 ACRES
LAND USE : RESIDENTIAL
BUILDING AREA = 9,387 FT²

**SEWAGE FLOW**
MAXIMUM SEWAGE LOADING ALLOWANCE =2500 GPD/ACRE (1,500 GPD/ACRE OR 2,500 GPD/ACRE)
AUTHORIZED SEWAGE FLOW = 2500 GPS/ACRE x 99 ACRES = 2,475GPD
UNIT FLOW CRITERIA (PER TABLE 1) : Residential Table 1
SEWAGE FLOW PER UNIT FLOW = 439GPD/502GPD
TOTAL SEWAGE FLOW = 940 GPD

**TREATMENT TANK AND DRAINFIELD**
PROPOSED SYSTEM : 600 GPD NORWECO SINGULAR TNT UNIT
MINIMUM REQUIRED TREATMENT CAPACITY = 600 GPD
DRAINFIELD CONFIGURATION : BED
DRAINFIELD TYPE : STANDARD
DRAINFIELD MATERIAL : CHAMBER
MAXIMUM SEWAGE LOADING RATE FOR THE PROPOSED DRAINFIELD = 0.60 GAL/FT²DAY
DRAINFIELD SIZE 439/502GPD / 60 GAL/FT²DAY =732/837FT²

**SEPARATION BETWEEN THE SHWT AND BOTTOM OF THE DRAINFIELD (ELEVATIONS IN NAVD 88)**
GRADE ELEVATION = 10.20 FT
SEASONAL HIGH WATER TABLE ELEVATION = 4.0 FT
ELEVATION AT THE BOTTOM OF THE DRAINFIELD = 7.70 FT
SEPARATION BETWEEN SHWT AND BOTTOM OF DRAINFIELD = 44.4 INCHES

SECTION No. 1 COVER LETTER

Miami-Dade Department of Health
O.S.T.D.S. Program
Miami Dade County Building
11805 S.W. 26th St.
Miami, Fl 33175

ENGINEER OF RECORD: Daniel Gutierrez
Florida State Licensed Engineer, Lic. No. 049086
Address: 29111 Kinsington Court
Wesley Chapel, Fl 33544

REFERENCE: NEW RESIDENCE
MCDONOUGH
10635 SW 63 AV
MIAMI, FL

LEGAL DESCRIPTION: LOT 2, BLOCK 6, OF: " HELMS COUNTRY ESTATES ADDITION ", ACCORDING TO THE PLAT THEREOF AS RECORDED IN PLAT BOOK 51, PAGE 64, OF THE PUBLIC RECORDS OF MIAMI-DADE COUNTY, FLORIDA.

PROPERTY ID: 20-5012-004-0530

We are hereby requesting approval of a Performance-Base Treatment System (PBTS) designed for, and to be installed upon, the property being dealt with. The Engineer of record, the certified installment entity, (Sarima Batista, Registered Septic Tank Contrac andor personnel under her supervision), the Aerobic Treatment Unit providers and warrantors in the State of Florida (SB Engineering, Inc) and the primary manufacturer (NORWECO, INC.) will be involved in all necessary activities to warranty the complete installation as well as the maintenance thereof.

WTIMDR Engineered ATU
Operation, Maintenance, and Inspection Specifications

Operation:
Power supply to all electric components must remain constant at all times. It is not acceptable to disconnect power from the system at any time except under the direction of the maintenance entity or in case of emergency.
Homeowner is not to power off during extended absences from home, vacations or otherwise. Liquid waste treatment additives shall not be used

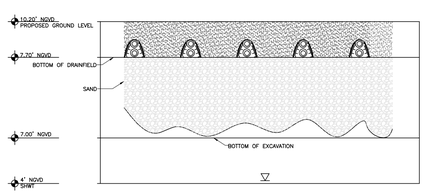
Maintenance and inspection 2year contract

-Inspections: Effluent monitoring and preventative maintenance shall be performed as required by 62.6 Part I, FAC.
-First inspection: At system installation by engineer.
-Second: After system has been in operation a total of 6 months by maintenance entity.
-Thereafter: every 6 months, as part of maintenance entity inspection. Maintenance entity inspection to include:
Solids Check accumulation (expect pump-out every 3 to 5 years)
Blower: Confirm proper operation; clean air filter, as required.
Alarms: Trip all alarms manually to confirm effective operation
Outlet Filter: Operate filter plunger. Remove, clean, and reinstall as required.
Pump: Check operation by manually tripping float switch. Operate each pump manually at control panel
-Monitoring to be conducted semi Annually
Monitoring Sampling: At SAMPLING PORT
Pollutant to be check

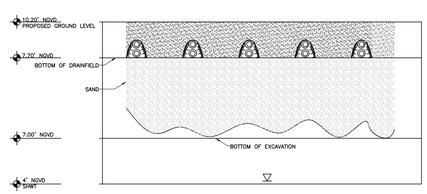
- Ponding depth quarterly
- TN ≤ 50% Reduction
- TP ≤ 10 mg/l
- Fecal coliform = ≤ 200 fc col/100 ml

Contingency

1- At the high water level, the system alarm sound. The Owner must contact the Maintenance entity within 24 hours of alarm.
2- Maintenance entity personnel will inspect the system, and order a repair on the problem as necessary, within 36 hours as specified in 62-6.012 (4)(b)
3- Owner shall be have tanks pumped as required to prevent the creation of sanitary nuisance conditions until such time as repairs are effected which prevent sanitary nuisance conditions.




DRAINFIELD SYSTEM (CHAMBERS) SYSTEM #1
SCALE N.T.S.




DRAINFIELD SYSTEM (CHAMBERS) SYSTEM #2
SCALE N.T.S.

THERE ARE NO PERTINENT FEATURES ON ADJACENT PROPERTIES AND ACROSS THE STREET THAT MAY AFFECT THE SYSTEM INSTALLATION

Certification of Design
I certified that the engineering features of this performance-based treatment system have been designed or specified by me and conform to engineering principles applicable to such projects. In my professional judgment, this system, when properly constructed, operated and maintained, will achieve the established performance standard and comply with all applicable status of the State of Florida and rules of the Department.
This is based on average Testing Performance Data for components of Performance-Based Treatment Systems (PBTS) by E. Roeder. for innovative system testing in Florida or from test centers for evaluation of use in nutrient and fecal coliform reducing PBTS or from test centers for NSF-certification as Aerobic Treatment Units (ATUs).
Florida-approved NSF 40-Certified Models

Florida-approved NSF Standard 245
Nitrogen-Reducing, certified Aerobic Treatment Units in Florida
(Rule 64E-6.012, Florida Administrative Code)
Norweco Singulair TNT-500, 600, 750, 800, 1000, 1250, 1500
Average Total Nitrogen Reduction NSF 245 Completion report 68%
Singulair TNT TN=6.80 mg/L, CBOD5=6 mg/L, TSS=10 mg/L
TP treatment anticipates sufficiently low influent concentrations and is expected to meet the stablish performance standard.
Testing facility: Chelsea, MI

Daniel F Gutierrez
Digitally signed by Daniel F Gutierrez
DN: CN=Daniel F Gutierrez, OU=Qualified, O=410C000001957LA0877C5001460I5D, C=US, E=danny@dfgengineers.com
Date: 2025.03.11 10:08:28-04'00'

*"This item has been digitally signed and sealed by Daniel F. Gutierrez on the date adjacent to the seal. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies"*


*DANIEL F. GUTIERREZ, P.E.*
*LIC. #049086*

*29111 KINSINGTON COURT*
*WESLEY CHAPEL*
*PH:(786)499-4167*
*Email: danny@dfgengineers.com*

*DG CONSULTING ENGINEERS, LLC*
*DESIGN — INSPECTIONS*


**NEW RESIDENCE**

# GS JPD 10635 LL

10635 SW 63 AV
MIAMI, FL

SEAL

DANIEL F. GUTIERREZ LICENSE No. 49086 STATE OF FLORIDA PROFESSIONAL ENGINEER

03-11-25

DANIEL F. GUTIERREZ, P.E.
ELECTRICAL ENGINEER LIC. #0490

**REVISIONS**

| NO. | DESC | DATE |
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**SCHEMATIC SET**

SI

BALLI - TRAUTMAN
ARCHITECTURE INTERIORS CONSTRUCTION

JOB NUMBER:
CHECKED BY:
ISSUE DATE: Issue D
SCALE: AS NOT

SHEET TITLE

SITE SEPTIC TANK DETAILS & SPECIFICATIONS

SHEET NUMBER

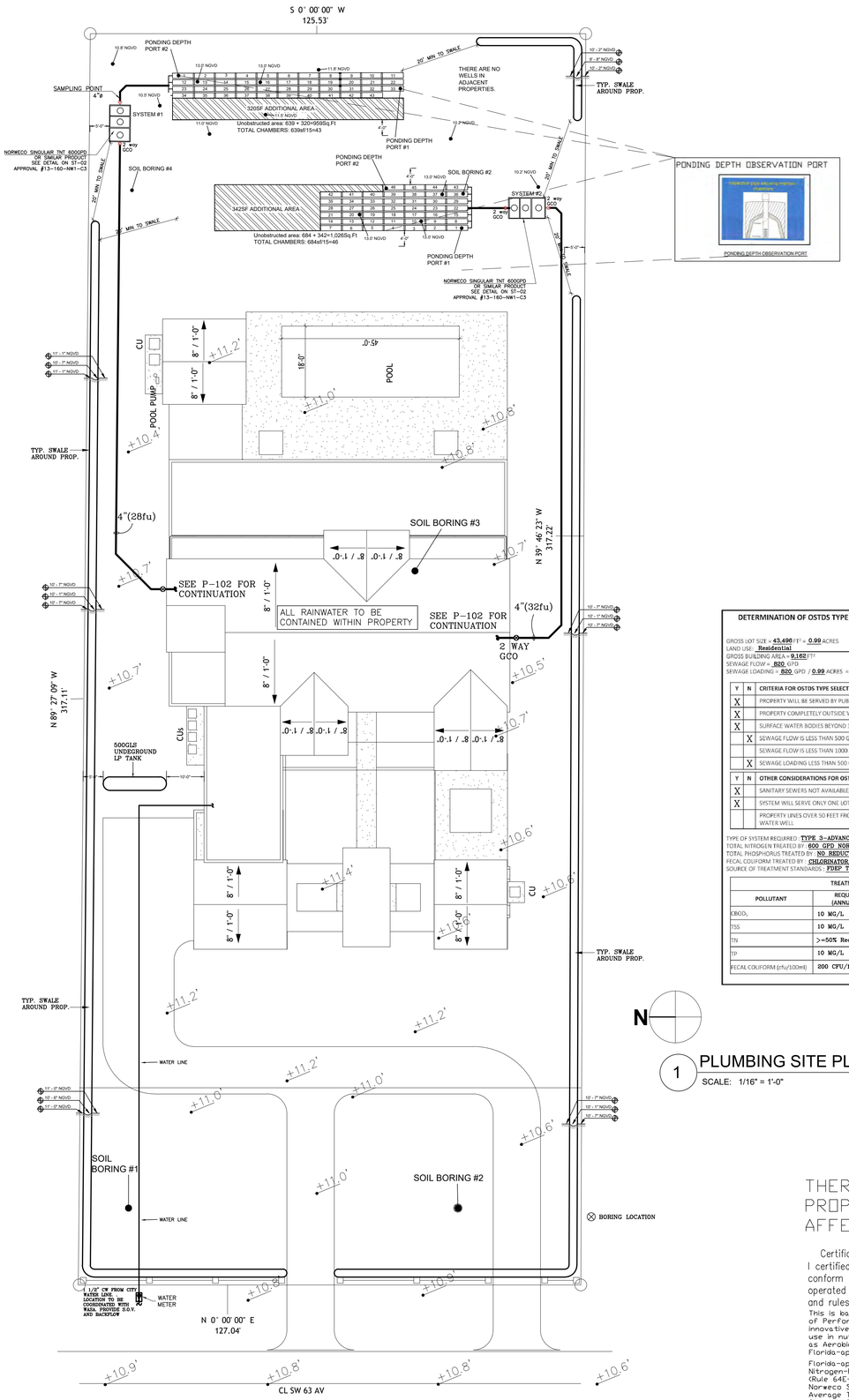
ST-01


COPYRIGHT BALLI-TRAUTMAN ARCHITECTS, LLC
1533 SUNSET DRIVE SUITE 101, CORAL GABLES, I



**Miami Dade County Department of Regulatory and Economic Resources - Job Copy**
**2025004680 - 6/27/2025 8:28:53 AM**
**ST-01 RWK 3.14.2025.pdf**

| Examiner | Date Time Stamp | Trade | Stamp Name |
|---|---|---|---|
| VALDIVIESO, JOSE | 6/24/2025 10:42:37 AM | HRS | Approved |
| HERNANDEZ ACOSTA, JESUS | 3/14/2025 6:50:50 PM | OTDS | Approved |




1 PLUMBING SITE PLAN
SCALE: 1/16" = 1'-0"

| SEPTIC TANK CALCULATIONS AS PER F.A.C. 62-6.008 |
|---|
| HOUSE WITH 8,030 A/C AND 6 BEDROOMS<br>8,030-3300=4,730= 400 GPD<br>4,730/750= 7x60= 420 GPD<br>TOTAL 820 GPD |
| THERE ARE NO PERTINENT FEATURES ON ADJACENT PROPERTIES OR ACROSS THE STREET THAT MAY AFFECT THE ONSITE SEWAGE DISPOSAL AND TREATMENT INSTALLATION. |
| PROPOSED DRAIN FIELD & SEPTIC TANK SHOWN ON THIS DRAWING ARE OVER 100' AWAY FROM EXISTING ADJACENT PROPERTIES POTABLE WELLS. ALL POTABLE AND NON-PORTABLE WELLS SHALL BE OVER 100' AWAY FROM ADJACENT PROPERTIES SEPTIC TANK AND DRAINFIELD. THIS CONTRACTOR SHALL VERIFY PRIOR TO CONSTRUCTION THIS EXISTING CONDITION AND NOTIFY THIS OFFICE OF ANY CONFLICT OR CHANCE. |
| DRAINAGE FIELD CALCULATIONS AS PER F.A.C. 62-6.008 |
| DESIGN<br>BED SYSTEM ON SANDY LIMESTONE LOADING RATE 0.6 GAL/[SF/DAY]<br><br>CALCULATION (TOTAL FU=60)<br>SYSTEM #1 (BED) (28fu):<br>28F.U. of 60F.U. x 820GPD=383 GPD<br>PROVIDE MINIMUM 639 Sq.FT/Min. Unobstructed area: 959 Sq.Ft<br>TOTAL CHAMBERS: 639/15=43<br><br>SYSTEM #2 (BED) (30fu):<br>30 F.U. of 60F.U. x 820GPD=410 GPD<br>PROVIDE MINIMUM 684 Sq.FT/Min. Unobstructed area: 1,026 Sq.Ft<br>TOTAL CHAMBERS: 684/15=46 |
| SEWAGE WATER SYSTEM SPECS |
| AEROBIC UNIT CAPACITY<br>1,300 GAL MULTICHAMBERED<br>600 GALLONS DOSING TANK CAPACITY. BENCHMARK: 10.9'<br>ELEVATION OF PROPOSED SYSTEM SITE 2.1 INCHES ABOVE BENCHMARK<br>BOTTOM OF DRAINFIELD#1 TO BE 0.6 INCHES ABOVE BENCHMARK<br>BOTTOM OF DRAINFIELD#2 TO BE 0.6 INCHES ABOVE BENCHMARK |

MINIMUM SETBACK WICHI CAN BE MAINTAINED FROM THE PROPOSED SYSTEM TO THE FOLLOWING FEATURES:
BUILDING FOUNDATIONS 5FT
PROPERTY LINES 5FT
POTABLE WATER LINES 8FT
SITE ELEVATION 13.00' NGVD SYSTEM #1
SITE ELEVATION 13.00' NGVD SYSTEM #2
SHWT = 4' NGVD

**DETERMINATION OF OSTDS TYPE AND STANDARDS PER SECTION 24-42.7**

GROSS LOT SIZE = 43,496 FT² = 0.99 ACRES
LAND USE: Residential
GROSS BUILDING AREA = 9,162 FT²
SEWAGE FLOW = 820 GPD
SEWAGE LOADING = 820 GPD / 0.99 ACRES = 812 GPD/ACRE

| Y | N | CRITERIA FOR OSTDS TYPE SELECTION |
|---|---|---|
| X | | PROPERTY WILL BE SERVED BY PUBLIC WATER |
| X | | PROPERTY COMPLETELY OUTSIDE WELLFIELD PROTECTION AREA |
| X | | SURFACE WATER BODIES BEYOND 1000 FEET |
| | X | SEWAGE FLOW IS LESS THAN 500 GPD FOR SFR /DUPLEX |
| | | SEWAGE FLOW IS LESS THAN 1000 GPD FOR MULTI-FAMILY/OTHER USES |
| | X | SEWAGE LOADING LESS THAN 500 GPD/ACRE |

| Y | N | OTHER CONSIDERATIONS FOR OSTDS APPROVAL |
|---|---|---|
| X | | SANITARY SEWERS NOT AVAILABLE, ABUTTING, OR OPERATIVE |
| X | | SYSTEM WILL SERVE ONLY ONE LOT |
| | | PROPERTY LINES OVER 50 FEET FROM OSTDS FOR PROPERTIES SERVED BY A POTABLE WATER WELL |

TYPE OF SYSTEM REQUIRED : TYPE 3-ADVANCE SECONDARY TREATMENT STANDARDS
TOTAL NITROGEN TREATED BY : 600 GPD NORWECO SINGULAR TNT 500 UNIT
TOTAL PHOSPHORUS TREATED BY : NO REDUCTION
FECAL COLIFORM TREATED BY : CHLORINATOR/DECHLORINATOR BIOKINETIC FILTER
SOURCE OF TREATMENT STANDARDS : FDEP TESTING PERFORMANCE DATA FOR PBTS

| TREATMENT STANDARDS | | |
|---|---|---|
| POLLUTANT | REQUIRED (mg/L) (ANNUAL AVERAGE) | PROPOSED (mg/L) (ANNUAL AVERAGE) |
| $CBOD_5$ | 10 MG/L | 4 MG/L |
| TSS | 10 MG/L | 9 MG/L |
| TN | >=50% Reduction-30 MG/L | 68% |
| TP | 10 MG/L | 10 MG/L |
| FECAL COLIFORM (cfu/100ml) | 200 CFU/100 ML | 2 CFU/100 ML |

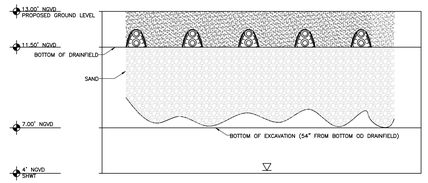
**OSTDS CALCULATIONS PER CHAPTER 62-6 F.A.C.**

NET LOT SIZE = 40,101 FT² = 0.92 ACRES
LAND USE: RESIDENTIAL
BUILDING AREA = 9162 FT²

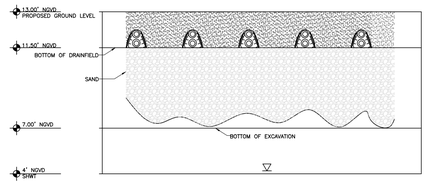
SEWAGE FLOW
MAXIMUM SEWAGE LOADING ALLOWANCE = 2500 GPD/ACRE (1,500 GPD/ACRE OR 2,500 GPD/ACRE)
AUTHORIZED SEWAGE FLOW = 2500 GPD/ACRE x 36 ACRES = 900 GPD
UNIT FLOW CRITERIA (PER TABLE 1) : Residential Table 1
SEWAGE FLOW PER UNIT FLOW = 383 GPD/410GPD
TOTAL SEWAGE FLOW = 820 GPD

TREATMENT TANK AND DRAINFIELD
PROPOSED SYSTEM : 600 GPD NORWECO SINGULAR TNT UNIT
MINIMUM REQUIRED TREATMENT CAPACITY = 600 GPD
DRAINFIELD CONFIGURATION : BED
DRAINFIELD TYPE : STANDARD
DRAINFIELD MATERIAL : CHAMBER
MAXIMUM SEWAGE LOADING RATE FOR THE PROPOSED DRAINFIELD = 0.60 GAL/FT²/DAY
DRAINFIELD SIZE = 383/410 GPD / 60 GAL/FT²/DAY =839/684 FT²

SEPARATION BETWEEN THE SHWT AND BOTTOM OF THE DRAINFIELD (ELEVATIONS IN NAVD 88)
GRADE ELEVATION = 13.00 FT
SEASONAL HIGH WATER TABLE ELEVATION = 4.0 FT
ELEVATION AT THE BOTTOM OF THE DRAINFIELD = 11.50 FT
SEPARATION BETWEEN SHWT AND BOTTOM OF DRAINFIELD = 75.6 INCHES




DRAINFIELD SYSTEM (CHAMBERS) SYSTEM #1
SCALE N.T.S.




DRAINFIELD SYSTEM (CHAMBERS) SYSTEM #2
SCALE N.T.S.

THERE ARE NO PERTINENT FEATURES ON ADJACENT PROPERTIES AND ACROSS THE STREET THAT MAY AFFECT THE SYSTEM INSTALLATION

Certification of Design

I certified that the engineering features of this performance-based treatment system have been designed or specified by me and conform to engineering principles applicable to such projects. In my professional judgment, this system, when properly constructed, operated and maintained, will achieve the established performance standard and comply with all applicable status of the State of Florida and rules of the Department.

This is based on average Testing Performance Data for components of Performance-Based Treatment Systems (PBTS) by E. Roeder, for innovative system testing in Florida or from test centers for evaluation of use in nutrient and fecal coliform reducing PBTS or from test centers for NSF-certification as Aerobic Treatment Units (ATUs).
Florida-approved NSF 40-Certified Models

Florida-approved NSF Standard 245
Nitrogen-Reducing, certified Aerobic Treatment Units in Florida (Rule 64E-6.012, Florida Administrative Code)
Norweco Singulair TNT-500, 600, 750, 800, 1000, 1250, 1500
Average Total Nitrogen Reduction NSF 245 Completion report 68%
Singulair TNT TN=6.80 mg/L, CBOD5=6 mg/L, TSS=10 mg/L
TP treatment anticipates sufficiently low influent concentrations and is expected to meet the stablish performance standard.
Testing Facility: Chelsea, MI

SECTION No. 1 COVER LETTER

Miami-Dade Department of Health
O.S.T.D.S. Program
Miami Dade County Building
11805 S.W. 26th St.
Miami, Fl 33175

ENGINEER OF RECORD: Daniel Gutierrez
Florida State Licensed Engineer, Lic. No. 049086
Address: 29111 Kinsington Court
Wesley Chapel, Fl 33544

REFERENCE: NEW RESIDENCE
MCDONOUGH
10635 SW 63 AV
MIAMI, FL

LEGAL DESCRIPTION: LOT 2, BLOCK 6, OF: " HELMS COUNTRY ESTATES ADDITION ", ACCORDING TO THE PLAT THEREOF AS RECORDED IN PLAT BOOK 51, PAGE 64, OF THE PUBLIC RECORDS OF MIAMI-DADE COUNTY, FLORIDA.

PROPERTY ID: 20-5012-004-0530

We are hereby requesting approval of a Performance-Base Treatment System (PBTS) designed for, and to be installed upon, the property being dealt with. The Engineer of record, the certified installment entity, (Sarima Batista, Registered Septic Tank Contrac andor personnel under her supervision), the Aerobic Treatment Unit providers and warrantors in the State of Florida (SB Engineering, Inc) and the primary manufacturer (NORWECO, INC.) will be involved in all necessary activities to warranty the complete installation as well as the maintenance thereof.

WTIMDR Engineered ATU
Operation, Maintenance, and Inspection Specifications

Operation:
Power supply to all electric components must remain constant at all times. It is not acceptable to disconnect power from the system at any time except under the direction of the maintenance entity or in case of emergency.
Homeowner is not to power off during extended absences from home, vacations or otherwise. Liquid waste treatment additives shall not be used

Maintenance and inspection 2year contract

-Inspections: Effluent monitoring and preventative maintenance shall be performed as required by 62.6 Part I, FAC.
-First inspection: At system installation by engineer.
-Second: After system has been in operation a total of 6 months by maintenance entity.
-Thereafter: every 6 months, as part of maintenance entity inspection. Maintenance entity inspection to include:
Solids Check accumulation (expect pump-out every 3 to 5 years)
Blower: Confirm proper operation; clean air filter, as required.
Alarms: Trip all alarms manually to confirm effective operation
Outlet Filter: Operate filter plunger. Remove, clean, and reinstall as required.
Pump: Check operation by manually tripping float switch. Operate each pump manually at control panel
-Monitoring to be conducted semi Annually
Monitoring Sampling: At SAMPLING PORT
Pollutant to be check

- Ponding depth quarterly
- TN ≤ 50% Reduction
- TP ≤ 10 mg/l
- Fecal coliform = ≤ 200 fc col/100 ml

Contingency

1- At the high water level, the system alarm sound. The Owner must contact the Maintenance entity within 24 hours of alarm.
2- Maintenance entity personnel will inspect the system, and order a repair on the problem as necessary, within 36 hours as specified in 62-6.012 (4)(b)
3- Owner shall be have tanks pumped as required to prevent the creation of sanitary nuisance conditions until such time as repairs are effected which prevent sanitary nuisance conditions.

Daniel F Gutierrez
Digitally signed by Daniel F Gutierrez
DN: CN=Daniel F Gutierrez, C=US, E=danny@dfgengineers.com, O=Florida, L=FL
Date: 2024.11.14 08:52:31-05'00'

*"This item has been digitally signed and sealed by Daniel F. Gutierrez on the date adjacent to the seal. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies"*


*DANIEL F. GUTIERREZ, P.E.*
*LIC. #049086*

*29111 KINSINGTON COURT*
*WESLEY CHAPEL*
*PH:(786)499-4167*
*Email:danny@dfgengineers.com*

*DG CONSULTING ENGINEERS, LLC*
*DESIGN — INSPECTIONS*


**NEW RESIDENCE**

# GS JPD 10635 LLC

10635 SW 63 AV
MIAMI, FL

SEAL

DANIEL F. GUTIERREZ LICENSE No. 49086 STATE OF FLORIDA PROFESSIONAL ENGINEER

11-13-24

DANIEL F. GUTIERREZ, P.E.
ELECTRICAL ENGINEER LIC. #049086

**REVISIONS**

| NO. | DESC | DATE |
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## SCHEMATIC SET

SEAL

BALLI - TRAUTMAN
ARCHITECTURE INTERIORS CONSTRUCTION

JOB NUMBER:
CHECKED BY: GB
ISSUE DATE: Issue Date
SCALE: AS NOTED

SHEET TITLE

## SITE SEPTIC TANK DETAILS & SPECIFICATIONS

SHEET NUMBER

# ST-01


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1533 SUNSET DRIVE SUITE 101, CORAL GABLES, FL 33143



**Miami Dade County Department of Regulatory and Economic Resources - Job Copy**
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**ST-01.pdf**
**Examiner Date Time Stamp Trade Stamp Name**
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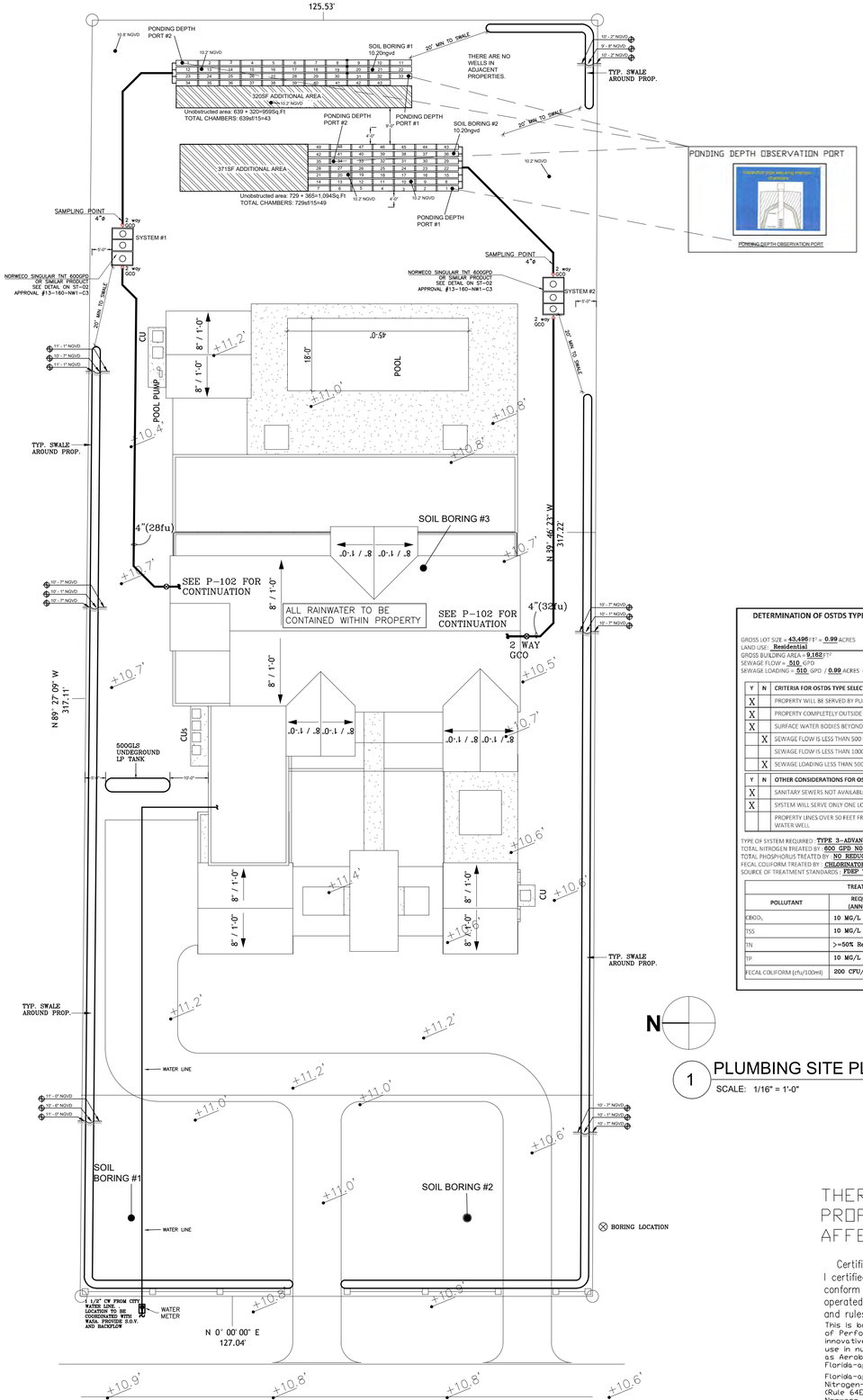



N

1 PLUMBING SITE PLAN

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

| SEPTIC TANK CALCULATIONS AS PER F.A.C. 62-6.008 |
|---|
| HOUSE WITH 8,030 A/C AND 6 BEDROOMS<br>8,030-3300=4,730= 400 GPD<br>4,730/750= 7x60= 420 GPD<br>TOTAL 820 GPD |
| THERE ARE NO PERTINENT FEATURES ON ADJACENT PROPERTIES OR ACROSS THE STREET THAT MAY AFFECT THE ONSITE SEWAGE DISPOSAL AND TREATMENT INSTALLATION. |
| PROPOSED DRAIN FIELD & SEPTIC TANK SHOWN ON THIS DRAWING ARE OVER 100' AWAY FROM EXISTING ADJACENT PROPERTIES POTABLE WELLS. ALL POTABLE AND NON-PORTABLE WELLS SHALL BE OVER 100' AWAY FROM ADJACENT PROPERTIES SEPTIC TANK AND DRAINFIELD. THIS CONTRACTOR SHALL VERIFY PRIOR TO CONSTRUCTION THIS EXISTING CONDITION AND NOTIFY THIS OFFICE OF ANY CONFLICT OR CHANCE. |
| DRAINAGE FIELD CALCULATIONS AS PER F.A.C. 62-6.008 |
| DESIGN<br>BED SYSTEM ON SANDY LIMESTONE LOADING RATE 0.6 GAL/[SF/DAY]<br><br>CALCULATION (TOTAL FU=60)<br>SYSTEM #1 (BED) (28fu):<br>28F.U. of 60F.U. x 820GPD=383 GPD<br>PROVIDE MINIMUM 639 Sq.FT/Min. Unobstructed area: 959 Sq.Ft<br>TOTAL CHAMBERS: 639/15=43<br><br>SYSTEM #2 (BED) (32fu):<br>32 F.U. of 60F.U. x 820GPD=437 GPD<br>PROVIDE MINIMUM 729 Sq.FT/Min. Unobstructed area: 1,094 Sq.Ft<br>TOTAL CHAMBERS: 729/15=49 |
| SEWAGE WATER SYSTEM SPECS |
| UNIT CAPACITY<br>1,300 GAL MULTICHAMBERED<br>600 GALLONS TANK CAPACITY. BENCHMARK: 10.9'<br>ELEVATION OF PROPOSED SYSTEM SITE 0.7 INCHES ABOVE BENCHMARK<br>BOTTOM OF DRAINFIELD#1 TO BE 38.4 INCHES BELOW BENCHMARK<br>BOTTOM OF DRAINFIELD#2 TO BE 38.4 INCHES BELOW BENCHMARK |

MINIMUM SETBACK WICHI CAN BE MAINTAINED FROM THE PROPOSED SYSTEM TO THE FOLLOWING FEATURES:
BUILDING FOUNDATIONS 5FT
PROPERTY LINES 5FT
POTABLE WATER LINES 8FT
SITE ELEVATION 10.20' NGVD SYSTEM #1
SITE ELEVATION 10.20' NGVD SYSTEM #2
SHWT = 4' NGVD

**DETERMINATION OF OSTDS TYPE AND STANDARDS PER SECTION 24-42.7**

GROSS LOT SIZE = 43,496FT² = 0.99 ACRES
LAND USE: Residential
GROSS BUILDING AREA = 9,162FT²
SEWAGE FLOW = 510 GPD
SEWAGE LOADING = 510 GPD / 0.99 ACRES = 511 GPD/ACRE

| Y | N | CRITERIA FOR OSTDS TYPE SELECTION |
|---|---|---|
| X | | PROPERTY WILL BE SERVED BY PUBLIC WATER |
| X | | PROPERTY COMPLETELY OUTSIDE WELLFIELD PROTECTION AREA |
| X | | SURFACE WATER BODIES BEYOND 1000 FEET |
| | X | SEWAGE FLOW IS LESS THAN 500 GPD FOR SFR /DUPLEX |
| | | SEWAGE FLOW IS LESS THAN 1000 GPD FOR MULTI-FAMILY/OTHER USES |
| | X | SEWAGE LOADING LESS THAN 500 GPD/ACRE |

| Y | N | OTHER CONSIDERATIONS FOR OSTDS APPROVAL |
|---|---|---|
| X | | SANITARY SEWERS NOT AVAILABLE, ABUTTING, OR OPERATIVE |
| X | | SYSTEM WILL SERVE ONLY ONE LOT |
| | | PROPERTY LINES OVER 50 FEET FROM OSTDS FOR PROPERTIES SERVED BY A POTABLE WATER WELL |

TYPE OF SYSTEM REQUIRED - TYPE 3-ADVANCE SECONDARY TREATMENT STANDARDS
TOTAL NITROGEN TREATED BY - 600 GPD NORWECO SINGULAR TNT 500 UNIT
TOTAL PHOSPHORUS TREATED BY - NO REDUCTION
FECAL COLIFORM TREATED BY - CHLORINATOR/DECHLORINATOR BIOKINETIC FILTER
SOURCE OF TREATMENT STANDARDS - FDEP TESTING PERFORMANCE DATA FOR PBTS

| TREATMENT STANDARDS | | |
|---|---|---|
| POLLUTANT | REQUIRED (mg/L) (ANNUAL AVERAGE) | PROPOSED (mg/L) (ANNUAL AVERAGE) |
| $CBOD_5$ | 10 MG/L | 4 MG/L |
| TSS | 10 MG/L | 9 MG/L |
| TN | >=50% Reduction-30 MG/L | 68% |
| TP | 10 MG/L | 10 MG/L |
| FECAL COLIFORM (cfu/100ml) | 200 CFU/100 ML | 2 CFU/100 ML |

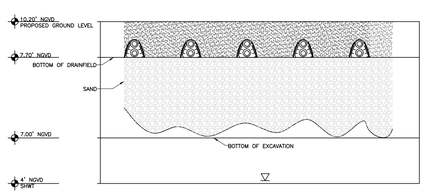
**OSTDS CALCULATIONS PER CHAPTER 62-6 F.A.C.**

NET LOT SIZE = 40,101 FT² = 0.92 ACRES
LAND USE: RESIDENTIAL
BUILDING AREA = 8,030 FT²

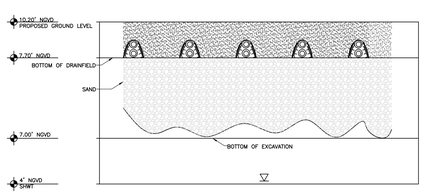
SEWAGE FLOW
MAXIMUM SEWAGE LOADING ALLOWANCE =2500 GPD/ACRE (1,500 GPD/ACRE OR 2,500 GPD/ACRE)
AUTHORIZED SEWAGE FLOW = 2500 GPD/ACRE x 0.99 ACRES = 2,475GPD
UNIT FLOW CRITERIA (PER TABLE 1) - Residential Table 1
SEWAGE FLOW PER UNIT FLOW = 383 GPD/437GPD
TOTAL SEWAGE FLOW = 820 GPD

TREATMENT TANK AND DRAINFIELD
PROPOSED SYSTEM - 600 GPD NORWECO SINGULAR TNT UNIT
MINIMUM REQUIRED TREATMENT CAPACITY = 600 GPD
DRAINFIELD CONFIGURATION - BED
DRAINFIELD TYPE - STANDARD
DRAINFIELD MATERIAL - CHAMBER
MAXIMUM SEWAGE LOADING RATE FOR THE PROPOSED DRAINFIELD = 0.60 GAL/FT²DAY
DRAINFIELD SIZE = 383/437 GPD / 60 GAL/FT²DAY =639/729 FT²

SEPARATION BETWEEN THE SHWT AND BOTTOM OF THE DRAINFIELD (ELEVATIONS IN NAVD 88)
GRADE ELEVATION = 10.20 FT
SEASONAL HIGH WATER TABLE ELEVATION = 4.0 FT
ELEVATION AT THE BOTTOM OF THE DRAINFIELD = 7.70 FT
SEPARATION BETWEEN SHWT AND BOTTOM OF DRAINFIELD = 44.4 INCHES




DRAINFIELD SYSTEM (CHAMBERS) SYSTEM #1
SCALE N.T.S.




DRAINFIELD SYSTEM (CHAMBERS) SYSTEM #2
SCALE N.T.S.

THERE ARE NO PERTINENT FEATURES ON ADJACENT PROPERTIES AND ACROSS THE STREET THAT MAY AFFECT THE SYSTEM INSTALLATION

Certification of Design

I certified that the engineering features of this performance-based treatment system have been designed or specified by me and conform to engineering principles applicable to such projects. In my professional judgment, this system, when properly constructed, operated and maintained, will achieve the established performance standard and comply with all applicable status of the State of Florida and rules of the Department.

This is based on average Testing Performance Data for components of Performance-Based Treatment Systems (PBTS) by E. Roeder. for innovative system testing in Florida or from test centers for evaluation of use in nutrient and fecal coliform reducing PBTS or from test centers for NSF-certification as Aerobic Treatment Units (ATUs).
Florida-approved NSF 40-Certified Models

Florida-approved NSF Standard 245
Nitrogen-Reducing, certified Aerobic Treatment Units in Florida
(Rule 64E-6.012, Florida Administrative Code)
Norweco Singulair TNT-500, 600, 750, 800, 1000, 1250, 1500
Average Total Nitrogen Reduction NSF 245 Completion report 68%
Singulair TNT TN=6.80 mg/L, CBOD5=6 mg/L, TSS=10 mg/L
TP treatment anticipates sufficiently low influent concentrations and is expected to meet the stablish performance standard.
Testing Facility: Chelsea, MI

Daniel F Gutierrez

Digitally signed by Daniel F Gutierrez
DN: CN=Daniel F Gutierrez, OU=DG CONSULTING ENGINEERS, LLC, C=US
Reason: I am the author of this document
Date: 2025.02.03 14:47:08-05'00'

*"This item has been digitally signed and sealed by Daniel F. Gutierrez on the date adjacent to the seal. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies"*


*DANIEL F. GUTIERREZ, P.E.*
*LIC. #049086*

*29111 KINSINGTON COURT*
*WESLEY CHAPEL*
*PH:(786)499-4167*
*Email:danny@dfgengineers.com*

*DG CONSULTING ENGINEERS, LLC*
*DESIGN — INSPECTIONS*


SECTION No. 1 COVER LETTER

Miami-Dade Department of Health
O.S.T.D.S. Program
Miami Dade County Building
11805 S.W. 26th St.
Miami, Fl 33175

ENGINEER OF RECORD: Daniel Gutierrez
Florida State Licensed Engineer, Lic. No. 049086
Address: 29111 Kinsington Court
Wesley Chapel, Fl 33544

REFERENCE: NEW RESIDENCE
MCDONOUGH
10635 SW 63 AV
MIAMI, FL

LEGAL DESCRIPTION: LOT 2, BLOCK 6, OF: " HELMS COUNTRY ESTATES ADDITION ", ACCORDING TO THE PLAT THEREOF AS RECORDED IN PLAT BOOK 51, PAGE 64, OF THE PUBLIC RECORDS OF MIAMI-DADE COUNTY, FLORIDA.

PROPERTY ID: 20-5012-004-0530

We are hereby requesting approval of a Performance-Base Treatment System (PBTS) designed for, and to be installed upon, the property being dealt with. The Engineer of record, the certified installment entity, (Sarima Batista, Registered Septic Tank Contrac andor personnel under her supervision), the Aerobic Treatment Unit providers and warrantors in the State of Florida (SB Engineering, Inc) and the primary manufacturer (NORWECO, INC.) will be involved in all necessary activities to warranty the complete installation as well as the maintenance thereof.

WTIMDR Engineered ATU
Operation, Maintenance, and Inspection Specifications

Operation:
Power supply to all electric components must remain constant at all times. It is not acceptable to disconnect power from the system at any time except under the direction of the maintenance entity or in case of emergency.
Homeowner is not to power off during extended absences from home, vacations or otherwise. Liquid waste treatment additives shall not be used

Maintenance and inspection 2year contract

-Inspections: Effluent monitoring and preventative maintenance shall be performed as required by 62.6 Part I, FAC.
-First inspection: At system installation by engineer.
-Second: After system has been in operation a total of 6 months by maintenance entity.
-Thereafter: every 6 months, as part of maintenance entity inspection. Maintenance entity inspection to include:
Solids Check accumulation (expect pump-out every 3 to 5 years)
Blower: Confirm proper operation; clean air filter, as required.
Alarms: Trip all alarms manually to confirm effective operation
Outlet Filter: Operate filter plunger. Remove, clean, and reinstall as required.
Pump: Check operation by manually tripping float switch. Operate each pump manually at control panel
-Monitoring to be conducted semi Annually
Monitoring Sampling: At SAMPLING PORT
Pollutant to be check

- Ponding depth quarterly
- TN ≤ 50% Reduction
- TP ≤ 10 mg/l
- Fecal coliform = ≤ 200 fc col/100 ml

Contingency

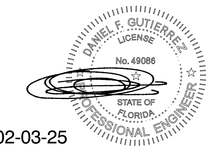
1- At the high water level, the system alarm sound. The Owner must contact the Maintenance entity within 24 hours of alarm.
2- Maintenance entity personnel will inspect the system, and order a repair on the problem as necessary, within 36 hours as specified in 62-6.012 (4)(b)
3- Owner shall be have tanks pumped as required to prevent the creation of sanitary nuisance conditions until such time as repairs are effected which prevent sanitary nuisance conditions.

**NEW RESIDENCE**

# GS JPD 10635 LL

10635 SW 63 AV
MIAMI, FL

SEAL




02-03-25

DANIEL F. GUTIERREZ, P.E.
ELECTRICAL ENGINEER LIC. #0490

**REVISIONS**

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## SCHEMATIC SET

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BALLI - TRAUTMAN
ARCHITECTURE INTERIORS CONSTRUCTION

JOB NUMBER:
CHECKED BY:
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SHEET TITLE

## SITE SEPTIC TANK DETAILS & SPECIFICATIONS

SHEET NUMBER

# ST-01


COPYRIGHT BALLI-TRAUTMAN ARCHITECTS, LLC
1533 SUNSET DRIVE SUITE 101, CORAL GABLES, I



**Miami Dade County Department of Regulatory and Economic Resources - Job Copy**
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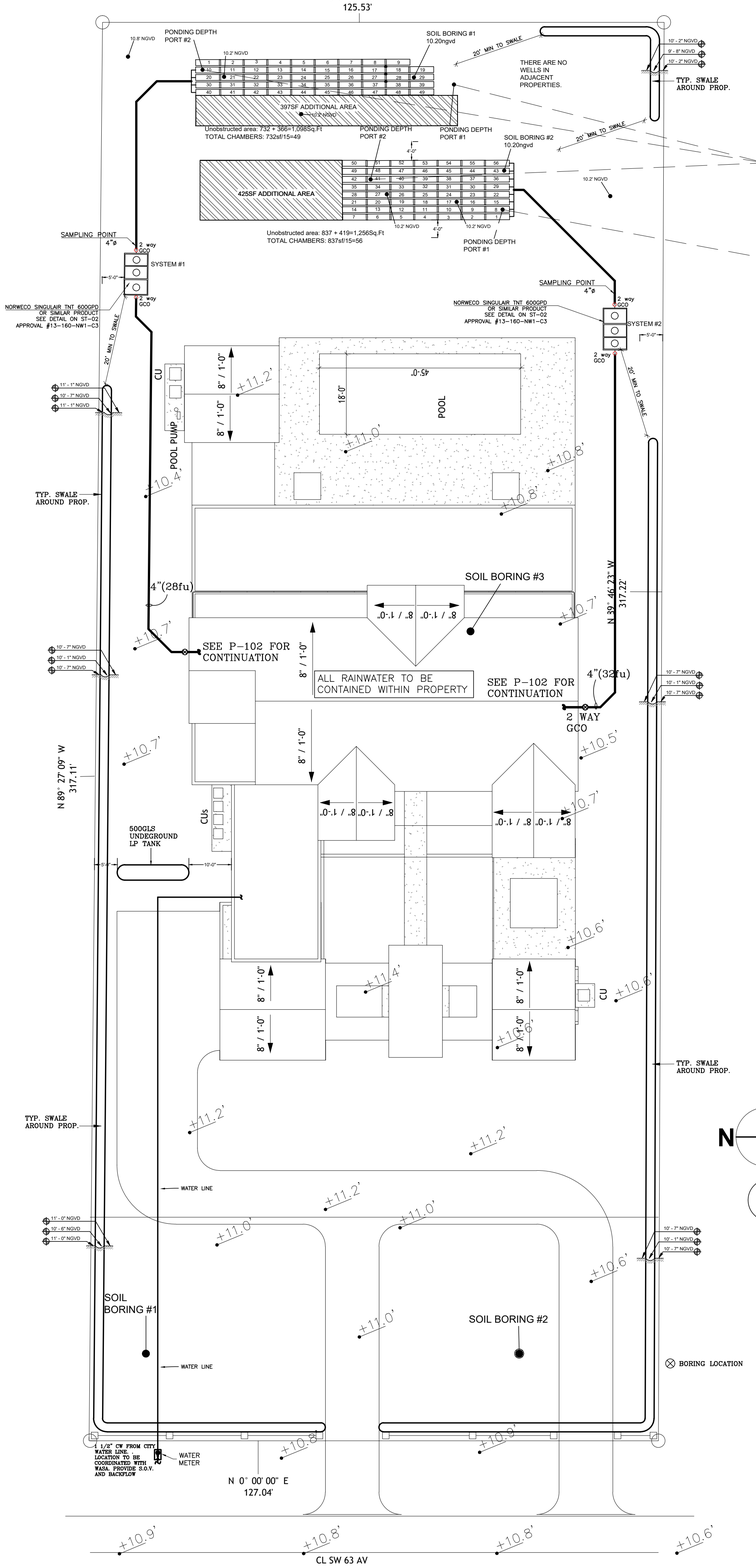


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1 PLUMBING SITE PLAN

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

| SEPTIC TANK CALCULATIONS AS PER F.A.C. 62-6.008 |
|---|
| HOUSE WITH 9,387 A/C AND 6 BEDROOMS<br>9,387-3300=6,087= 400 GPD<br>6,087/750= 9x60= 540 GPD<br>TOTAL 940 GPD |
| THERE ARE NO PERTINENT FEATURES ON ADJACENT PROPERTIES OR ACROSS THE STREET THAT MAY AFFECT THE ONSITE SEWAGE DISPOSAL AND TREATMENT INSTALLATION. |
| PROPOSED DRAIN FIELD & SEPTIC TANK SHOWN ON THIS DRAWING ARE OVER 100' AWAY FROM EXISTING ADJACENT PROPERTIES POTABLE WELLS. ALL POTABLE AND NON-PORTABLE WELLS SHALL BE OVER 100' AWAY FROM ADJACENT PROPERTIES SEPTIC TANK AND DRAINFIELD. THIS CONTRACTOR SHALL VERIFY PRIOR TO CONSTRUCTION THIS EXISTING CONDITION AND NOTIFY THIS OFFICE OF ANY CONFLICT OR CHANCE. |
| DRAINAGE FIELD CALCULATIONS AS PER F.A.C. 62-6.008 |
| DESIGN<br>BED SYSTEM ON SANDY LIMESTONE LOADING RATE 0.6 GAL/[SF/DAY]<br><br>CALCULATION (TOTAL FU=60)<br>SYSTEM #1 (BED) (28fu):<br>28F.U. of 60F.U. x 940GPD=439 GPD<br>PROVIDE MINIMUM 732 Sq.FT/Min. Unobstructed area: 1,098 Sq.Ft<br>TOTAL CHAMBERS: 732/15=49<br><br>SYSTEM #2 (BED) (32fu):<br>32 F.U. of 60F.U. x 940GPD=502 GPD<br>PROVIDE MINIMUM 837 Sq.FT/Min. Unobstructed area: 1,256 Sq.Ft<br>TOTAL CHAMBERS: 837/15=56 |
| SEWAGE WATER SYSTEM SPECS |
| UNIT CAPACITY<br>1,300 GAL MULTICHAMBERED<br>600 GALLONS TANK CAPACITY. BENCHMARK: 10.9'<br>ELEVATION OF PROPOSED SYSTEM SITE 0.7 INCHES ABOVE BENCHMARK<br>BOTTOM OF DRAINFIELD#1 TO BE 38.4 INCHES BELOW BENCHMARK<br>BOTTOM OF DRAINFIELD#2 TO BE 38.4 INCHES BELOW BENCHMARK |

MINIMUM SETBACK WICHI CAN BE MAINTAINED FROM THE PROPOSED SYSTEM TO THE FOLLOWING FEATURES:
BUILDING FOUNDATIONS 5FT
PROPERTY LINES 5FT
POTABLE WATER LINES 8FT
SITE ELEVATION 10.20' NGVD SYSTEM #1
SITE ELEVATION 10.20' NGVD SYSTEM #2
SHWT = 4' NGVD

**DETERMINATION OF OSTDS TYPE AND STANDARDS PER SECTION 24-42.7**

GROSS LOT SIZE = 43,496FT² = 0.99 ACRES
LAND USE: Residential
GROSS BUILDING AREA =11,414FT²
SEWAGE FLOW = 510 GPD
SEWAGE LOADING = 510 GPD / 0.99 ACRES = 511 GPD/ACRE

| Y | N | CRITERIA FOR OSTDS TYPE SELECTION |
|---|---|---|
| X | | PROPERTY WILL BE SERVED BY PUBLIC WATER |
| X | | PROPERTY COMPLETELY OUTSIDE WELLFIELD PROTECTION AREA |
| X | | SURFACE WATER BODIES BEYOND 1000 FEET |
| | X | SEWAGE FLOW IS LESS THAN 500 GPD FOR SFR /DUPLEX |
| | | SEWAGE FLOW IS LESS THAN 1000 GPD FOR MULTI-FAMILY/OTHER USES |
| | X | SEWAGE LOADING LESS THAN 500 GPD/ACRE |

| Y | N | OTHER CONSIDERATIONS FOR OSTDS APPROVAL |
|---|---|---|
| X | | SANITARY SEWERS NOT AVAILABLE, ABUTTING, OR OPERATIVE |
| X | | SYSTEM WILL SERVE ONLY ONE LOT |
| | | PROPERTY LINES OVER 50 FEET FROM OSTDS FOR PROPERTIES SERVED BY A POTABLE WATER WELL |

TYPE OF SYSTEM REQUIRED : TYPE 3-ADVANCE SECONDARY TREATMENT STANDARDS
TOTAL NITROGEN TREATED BY : 600 GPD NORWECO SINGULAR TNT 500 UNIT
TOTAL PHOSPHORUS TREATED BY : NO REDUCTION
FECAL COLIFORM TREATED BY : CHLORINATOR/DECHLORINATOR BIOKINETIC FILTER
SOURCE OF TREATMENT STANDARDS : FDEP TESTING PERFORMANCE DATA FOR PBTS

| TREATMENT STANDARDS | | |
|---|---|---|
| POLLUTANT | REQUIRED (mg/L) (ANNUAL AVERAGE) | PROPOSED (mg/L) (ANNUAL AVERAGE) |
| $CBOD_5$ | 10 MG/L | 4 MG/L |
| TSS | 10 MG/L | 9 MG/L |
| TN | >=50% Reduction-30 MG/L | 68% |
| TP | 10 MG/L | 10 MG/L |
| FECAL COLIFORM (cfu/100ml) | 200 CFU/100 ML | 2 CFU/100 ML |

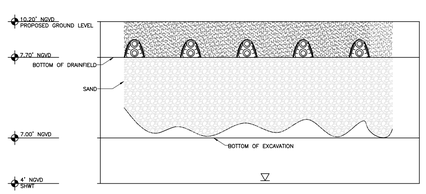
**OSTDS CALCULATIONS PER CHAPTER 62-6 F.A.C.**

NET LOT SIZE = 40,101 FT² = 0.92 ACRES
LAND USE : RESIDENTIAL
BUILDING AREA = 9,387 FT²

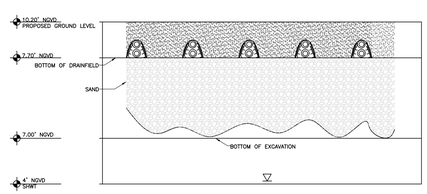
**SEWAGE FLOW**
MAXIMUM SEWAGE LOADING ALLOWANCE =2500 GPD/ACRE (1,500 GPD/ACRE OR 2,500 GPD/ACRE)
AUTHORIZED SEWAGE FLOW = 2500 GPS/ACRE x 99 ACRES = 2,475GPD
UNIT FLOW CRITERIA (PER TABLE 1) : Residential Table 1
SEWAGE FLOW PER UNIT FLOW = 439GPD/502GPD
TOTAL SEWAGE FLOW = 940 GPD

**TREATMENT TANK AND DRAINFIELD**
PROPOSED SYSTEM : 600 GPD NORWECO SINGULAR TNT UNIT
MINIMUM REQUIRED TREATMENT CAPACITY = 600 GPD
DRAINFIELD CONFIGURATION : BED
DRAINFIELD TYPE : STANDARD
DRAINFIELD MATERIAL : CHAMBER
MAXIMUM SEWAGE LOADING RATE FOR THE PROPOSED DRAINFIELD = 0.60 GAL/FT²DAY
DRAINFIELD SIZE =439/502GPD / 60 GAL/FT²DAY =732/837FT² FT²

**SEPARATION BETWEEN THE SHWT AND BOTTOM OF THE DRAINFIELD (ELEVATIONS IN NAVD 88)**
GRADE ELEVATION = 10.20 FT
SEASONAL HIGH WATER TABLE ELEVATION = 4.0 FT
ELEVATION AT THE BOTTOM OF THE DRAINFIELD = 7.70 FT
SEPARATION BETWEEN SHWT AND BOTTOM OF DRAINFIELD = 44.4 INCHES




DRAINFIELD SYSTEM (CHAMBERS) SYSTEM #1
SCALE N.T.S.




DRAINFIELD SYSTEM (CHAMBERS) SYSTEM #2
SCALE N.T.S.

THERE ARE NO PERTINENT FEATURES ON ADJACENT PROPERTIES AND ACROSS THE STREET THAT MAY AFFECT THE SYSTEM INSTALLATION

Certification of Design

I certified that the engineering features of this performance-based treatment system have been designed or specified by me and conform to engineering principles applicable to such projects. In my professional judgment, this system, when properly constructed, operated and maintained, will achieve the established performance standard and comply with all applicable status of the State of Florida and rules of the Department.

This is based on average Testing Performance Data for components of Performance-Based Treatment Systems (PBTS) by E. Roeder. for innovative system testing in Florida or from test centers for evaluation of use in nutrient and fecal coliform reducing PBTS or from test centers for NSF-certification as Aerobic Treatment Units (ATUs).
Florida-approved NSF 40-Certified Models

Florida-approved NSF Standard 245
Nitrogen-Reducing, certified Aerobic Treatment Units in Florida
(Rule 64E-6.012, Florida Administrative Code)
Norweco Singulair TNT-500, 600, 750, 800, 1000, 1250, 1500
Average Total Nitrogen Reduction NSF 245 Completion report 68%
Singulair TNT TN=6.80 mg/L, CBOD5=6 mg/L, TSS=10 mg/L
TP treatment anticipates sufficiently low influent concentrations and is expected to meet the stablish performance standard.
Testing Facility: Chelsea, MI

Daniel F Gutierrez
Digitally signed by Daniel F Gutierrez
DN: CN=Daniel F Gutierrez, OU=Qualified, O=410C000001957JA387C5001460I6D, C=US, E=danny@dfgengineers.com
Date: 2025.03.11 10:08:28-04'00'

*"This item has been digitally signed and sealed by Daniel F. Gutierrez on the date adjacent to the seal. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies"*


*DANIEL F. GUTIERREZ, P.E.*
*LIC. #049086*

*29111 KINSINGTON COURT*
*WESLEY CHAPEL*
*PH:(786)499-4167*
*Email:danny@dfgengineers.com*

*DG CONSULTING ENGINEERS, LLC*
*DESIGN — INSPECTIONS*


**SECTION No. 1 COVER LETTER**

Miami-Dade Department of Health
O.S.T.D.S. Program
Miami Dade County Building
11805 S.W. 26th St.
Miami, Fl 33175

ENGINEER OF RECORD: Daniel Gutierrez
Florida State Licensed Engineer, Lic. No. 049086
Address: 29111 Kinsington Court
Wesley Chapel, Fl 33544

REFERENCE: NEW RESIDENCE
MCDONOUGH
10635 SW 63 AV
MIAMI, FL

LEGAL DESCRIPTION: LOT 2, BLOCK 6, OF: " HELMS COUNTRY ESTATES ADDITION ", ACCORDING TO THE PLAT THEREOF AS RECORDED IN PLAT BOOK 51, PAGE 64, OF THE PUBLIC RECORDS OF MIAMI-DADE COUNTY, FLORIDA.

PROPERTY ID: 20-5012-004-0530

We are hereby requesting approval of a Performance-Base Treatment System (PBTS) designed for, and to be installed upon, the property being dealt with. The Engineer of record, the certified installment entity, (Sarima Batista, Registered Septic Tank Contrac andor personnel under her supervision), the Aerobic Treatment Unit providers and warrantors in the State of Florida (SB Engineering, Inc) and the primary manufacturer (NORWECO, INC.) will be involved in all necessary activities to warranty the complete installation as well as the maintenance thereof.

**WTIMDR Engineered ATU**
**Operation, Maintenance, and Inspection Specifications**

Operation:
Power supply to all electric components must remain constant at all times. It is not acceptable to disconnect power from the system at any time except under the direction of the maintenance entity or in case of emergency.
Homeowner is not to power off during extended absences from home, vacations or otherwise. Liquid waste treatment additives shall not be used

Maintenance and inspection 2year contract

-Inspections: Effluent monitoring and preventative maintenance shall be performed as required by 62.6 Part I, FAC.
-First inspection: At system installation by engineer.
-Second: After system has been in operation a total of 6 months by maintenance entity.
-Thereafter: every 6 months, as part of maintenance entity inspection. Maintenance entity inspection to include:
Solids Check accumulation (expect pump-out every 3 to 5 years)
Blower: Confirm proper operation; clean air filter, as required.
Alarms: Trip all alarms manually to confirm effective operation
Outlet Filter: Operate filter plunger. Remove, clean, and reinstall as required.
Pump: Check operation by manually tripping float switch. Operate each pump manually at control panel
-Monitoring to be conducted semi Annually
Monitoring Sampling: At SAMPLING PORT
Pollutant to be check

- Ponding depth quarterly
- TN ≤ 50% Reduction
- TP ≤ 10 mg/l
- Fecal coliform = ≤ 200 fc col/100 ml

Contingency

1- At the high water level, the system alarm sound. The Owner must contact the Maintenance entity within 24 hours of alarm.
2- Maintenance entity personnel will inspect the system, and order a repair on the problem as necessary, within 36 hours as specified in 62-6.012 (4)(b)
3- Owner shall be have tanks pumped as required to prevent the creation of sanitary nuisance conditions until such time as repairs are effected which prevent sanitary nuisance conditions.

**NEW RESIDENCE**

# GS JPD 10635 LL

10635 SW 63 AV
MIAMI, FL

SEAL

DANIEL F. GUTIERREZ LICENSE No. 49086 STATE OF FLORIDA PROFESSIONAL ENGINEER

03-11-25

DANIEL F. GUTIERREZ, P.E.
ELECTRICAL ENGINEER LIC. #0490

**REVISIONS**

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**SCHEMATIC SET**

SI

BALLI - TRAUTMAN
ARCHITECTURE INTERIORS CONSTRUCTION

JOB NUMBER:
CHECKED BY:
ISSUE DATE: Issue D
SCALE: AS NOT

SHEET TITLE

SITE SEPTIC TANK DETAILS & SPECIFICATIONS

SHEET NUMBER

ST-01


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1533 SUNSET DRIVE SUITE 101, CORAL GABLES, I



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**Examiner Date Time Stamp Trade Stamp Name**
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# SINGULAIR® TNT®
# THE PRECAST CONCRETE ADVANCED TREATMENT UNIT

**NITROGEN REDUCING WASTEWATER TREATMENT SYSTEM**
**ACCOMPLISHES NITRIFICATION AND DENITRIFICATION**
**GREATER THAN 68% REDUCTION IN TOTAL NITROGEN**

If regulations in your area are demanding nutrient reduction for onsite treatment and disposal systems, install a Singulair Model TNT! Total Nitrogen Treatment you can rely on from the leader in advanced treatment unit technology.

**NSF STANDARD 245 CERTIFIED PERFORMANCE**
**AFFORDABLE DOMESTIC WASTEWATER TREATMENT**
**COMPLIES WITH THE MOST STRINGENT EFFLUENT CRITERIA**

The Singulair Model TNT system biologically oxidizes nitrogen compounds without requiring complicated and expensive equipment. Designed to be easily operated and maintained, the TNT system does not require the addition of chemicals or the recirculation of effluent. The Singulair TNT blows away the competition!

**PERFORMANCE THAT PROTECTS THE ENVIRONMENT!**
**7 mg/L NITRATE**
**12 mg/L TOTAL NITROGEN**
**4 mg/L $CBOD_5$**
**9 mg/L TSS**

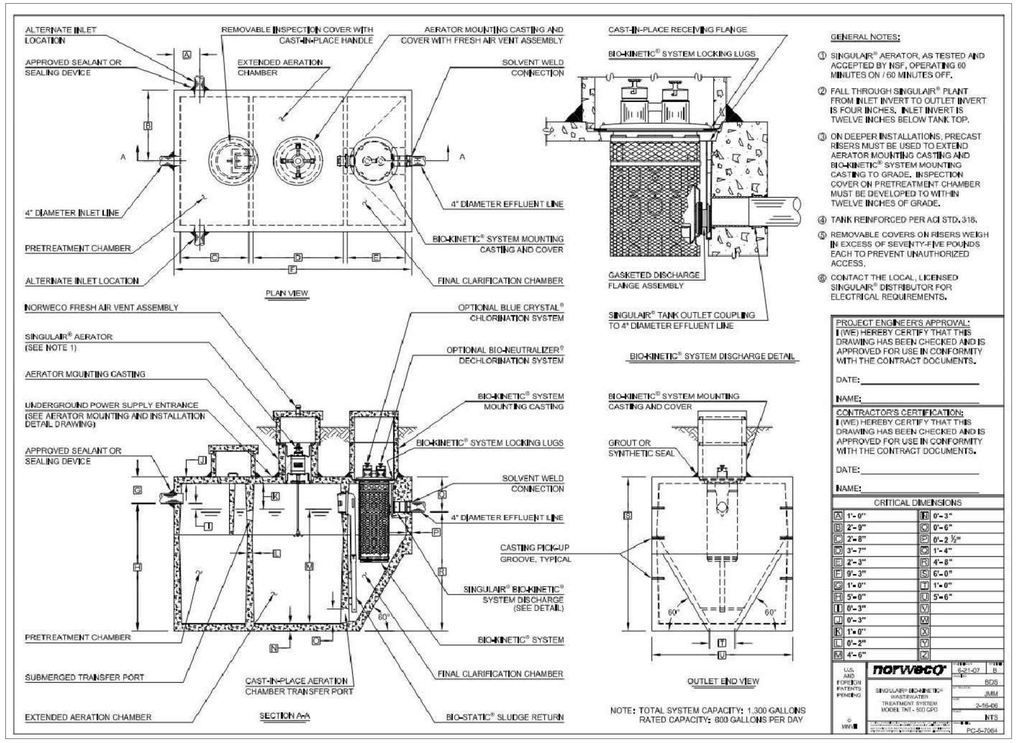
NSF SP® FC c UL us LISTED NAT

**SINGULAIR® TNT FEATURES**

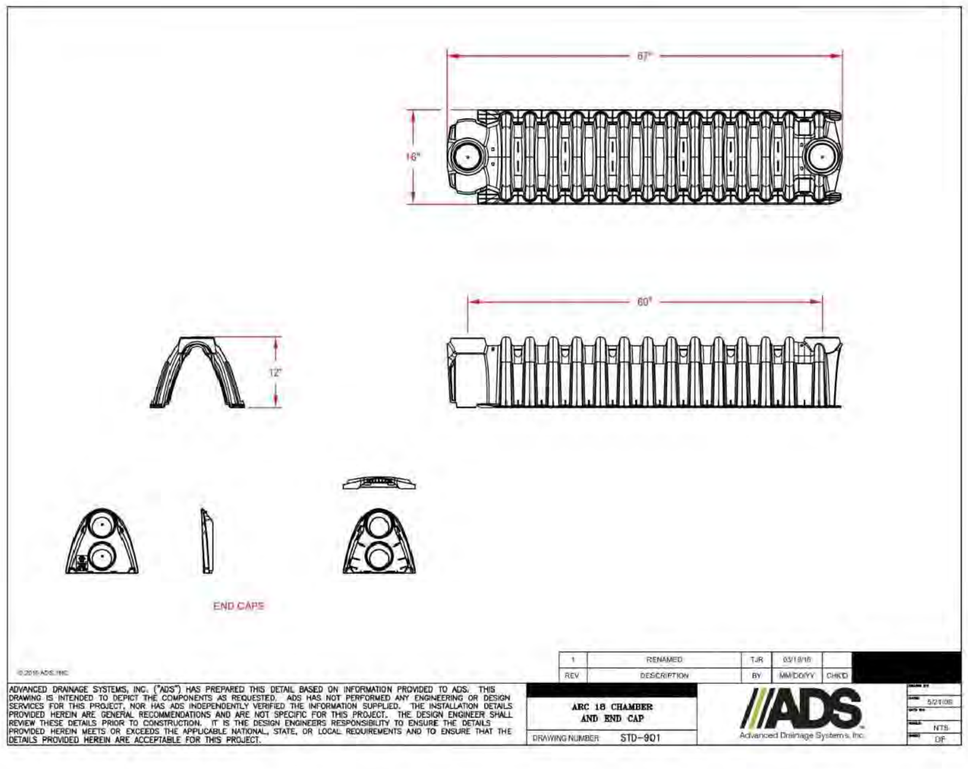
- Precast concrete tank
- Lowest electrical usage
- Surge flows equalized
- No chemicals to add
- Lifetime warranty and exchange
- Sold and serviced by local distributors
- Made in the U.S.A.

norweco®
Engineering the future of water and wastewater treatment

220 REPUBLIC STREET
NORWALK, OHIO, USA 44857-1156
TELEPHONE (419) 668-4471
FAX (419) 663-5440
www.norweco.com




NORWECO 600 GPD SEWAGE TREATMENT TANK DETAILS
NTS




DRAINFIELD ARC 18 CHAMBER DETAILS
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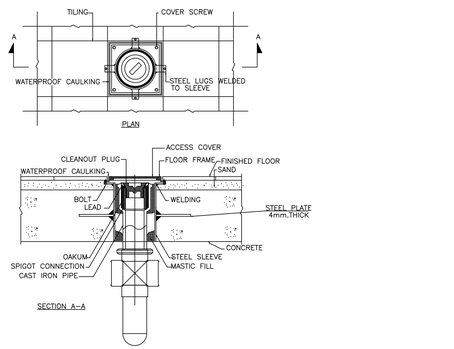


FLOOR CLEAN OUT (SAMPLING POINT)
SCALE N.T.S.

NOTES:
1) POWER SUPPLY TO ALL ELECTRIC COMPONENTS MUST REMAIN CONSTANT.
2) MAINTENANCE INSPECTION IS REQUIRED PER TWO YEAR CONTRACT (2 YRS) AS REQUIRED BY F.A.C. 62-6.012
3) FIRST INSPECTION AT SYSTEM INSTALLATION BY ENGINEER
4) SECOND INSPECTION AFTER SYSTEM HAS BEEN OPERATED A TOTAL 6 MONTHS BY MAINTENANCE ENTITY.
5) A VISUAL AND AUDIO WARNING DEVICE MUST BE INSTALLED IN A CONSPICUOUS LOCATION SO THAT ACTIVATION OF SUCH WARNING WILL ALERT PROPERTY OCCUPANTS OF AEROBIC MALFUNCTION OR FAILURE.
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9) MONITORING AND SAMPLING TO BE PERFORMED AT SAMPLING PORT PRIOR TO DRAINAGE FIELD
10) STORMWATER DRAINAGE SYSTEM DESIGN FOR A 2YR-24HR INTENSITY RAINFALL - SYSTEM CAPACITY 1770 CUBIC FEET - NOAA ATLAS 14-5.41IN RAINFALL

Daniel F Gutierrez
Digitally signed by Daniel F. Gutierrez
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Date: 2024.11.14 08:53:56 -05'00'

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*DANIEL F. GUTIERREZ, P.E.*
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*PH:(786)499-4167*
*Email:danny@dfgengineers.com*
*DG CONSULTING ENGINEERS, LLC*
*DESIGN — INSPECTIONS*

**NEW RESIDENCE**

# GS JPD 10635 LLC

10635 SW 63 AV
MIAMI, FL

SEAL

DANIEL F. GUTIERREZ LICENSE No. 49086 STATE OF FLORIDA PROFESSIONAL ENGINEER
11-13-24
DANIEL F. GUTIERREZ, P.E.
ELECTRICAL ENGINEER LIC. #049086

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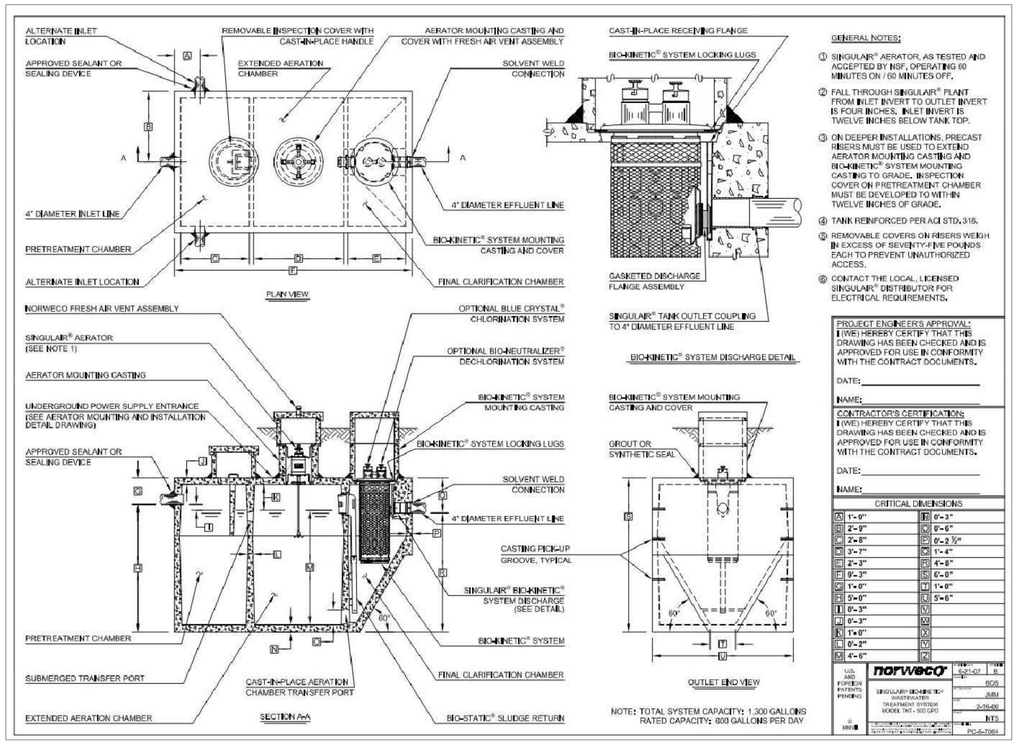


NORWECO 600 GPD SEWAGE TREATMENT TANK DETAILS
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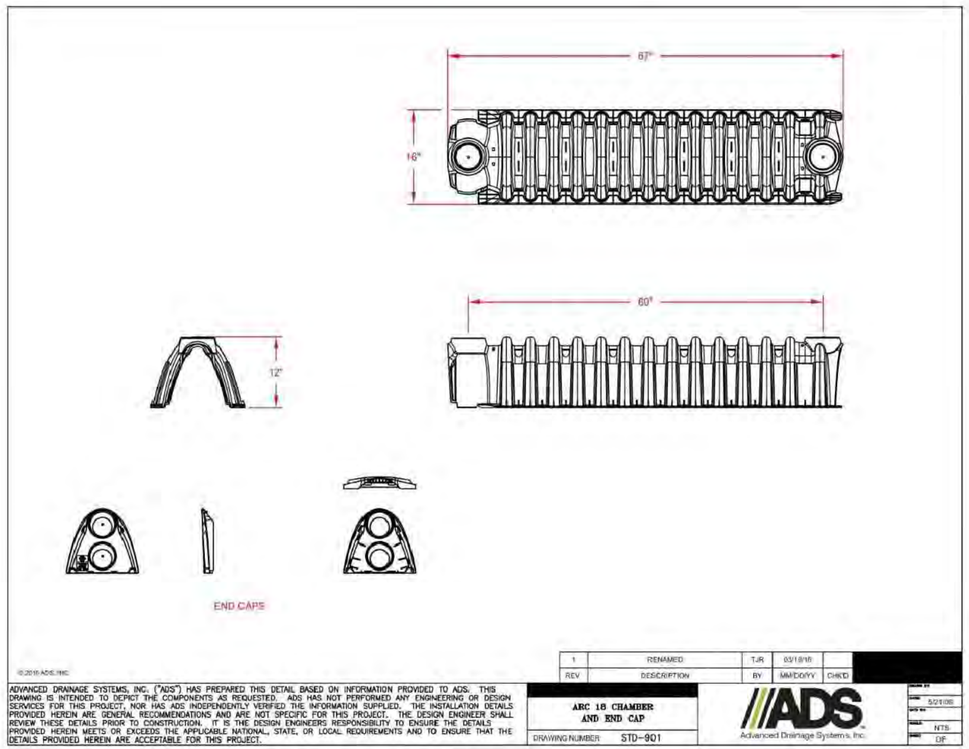


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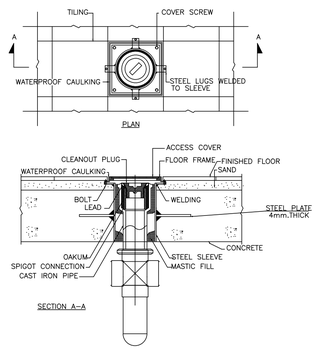


FLOOR CLEAN OUT (SAMPLING POINT)
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*WESLEY CHAPEL*
*PH:(786)499-4167*
*Email:danny@dfgengineers.com*
*DG CONSULTING ENGINEERS, LLC*
*DESIGN — INSPECTIONS*


**NEW RESIDENCE**

**GS JPD 10635 LL**

10635 SW 63 AV
MIAMI, FL

SEAL

DANIEL F. GUTIERREZ LICENSE No. 49086 STATE OF FLORIDA PROFESSIONAL ENGINEER

02-03-25

DANIEL F. GUTIERREZ, P.E.
ELECTRICAL ENGINEER LIC. #0490

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| Z. Belfranin<br>4836 SW 74Ct<br>MIAMI, FL 33155 | Project<br>GS JPD 10635 Residence | | | | Job Ref. | |
|---|---|---|---|---|---|---|
| | Section<br>Structural Calc's | | | | Sheet no./rev. | |
| | Calcs. By<br>H.J | Date<br>11/27/2024 | Chk'd by<br>Z.T.B | Date | App'd by | Date |

# STRUCTURAL CALCULATIONS FOR

# GS JPD 10635 RESIDENCE

10635 SW 63rd Ave,

Miami, FL 33156

November 27th, 2024

Zvonimir T. Belfranin, PE

FL PE# 33074

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| | Calcs. By<br>H.J | Date<br>11/27/2024 | Chk'd by<br>Z.T.B | Date | App'd by | Date |

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| Conc. Footing Design | 30-37 |

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- Design Criteria

- Design Codes
  - Florida Building Code 2023, 8th Edition
  - ASCE 07-22
  - ACI 318-19, ACI 530-14, ACI 530.1-14 & ACI 421.1R-20
  - A.I.C.S. 16TH EDITION
  - TMS 402/602

- Materials
  - Concrete Strength at 28 days – 4000-5000 PSI (U.O.N)
  - Concrete Masonry Strength at 28 days – 2000 PSI (U.O.N)
  - Steel Tube A500 Grade B
  - Steel W Shape A992
  - All other Steel A36
  - Anchor Bolt A307
  - All other Bolt A325

- Gravity Design Load
  - Supper Imposed DL: 35 PSF (First & Second Floor)
  - Live load: 40 PSF (First & Second Floor)
  - Live load: 100 PSF (Stairs)
  - Live load: 60 PSF (Balconies)
  - Supper Imposed DL: 25 PSF (Roof Floor)
  - Live load: 30 PSF (Roof Floor)

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- Wind Design Load
  - Wind Velocity 175 MPH
  - Building Exposure "C"
  - Risk Category " II"
  - Coefficient of Internal pressure ±0.18
  - Building Type "Enclosed"
  - Building Height 26.2'

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# MecaWind v2482

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**Calculations Prepared by:**
Date: Nov 27, 2024
Designer: Z.T.B

**Calculations Prepared For:**
Location: Miami, FL
Description: GS JPD 10635 Residence

File Location: C:\Users\User\ASM Eng Dropbox\2024-ASM\TOM\Hossein\MCDONOUGHT\Calc's\Mecawind\Hipped Wind-7-22.wnd

**General:**

| | | | | | |
|---|---|---|---|---|---|
| Wind Load Standard | = | ASCE 7-22 | Basic Wind Speed | = | 175.0 mph |
| Exposure Classification | = | C | Risk Category | = | II |
| Structure Type | = | Building | Design Basis for Wind Pressures | = | ASD |
| MWFRS Analysis Method | = | Ch 27 | C&C Analysis Method | = | Ch 30 Pt 1 |
| Dynamic Type of Structure | = | Rigid | Show Advanced Options | = | True |
| Reset Advanced Options to Default Values | = | Defaults | Simple Diaphragm Building | = | False |
| Show Base Reactions in Output | = | 0 | MWFRS Pressure Elevations | = | Mean Ht |
| Topographic Effects | = | None | Override Directionality Factor $K_d$ | = | False |
| Override the Gust Factor G | = | False | Override Minimum Pressure | = | False |

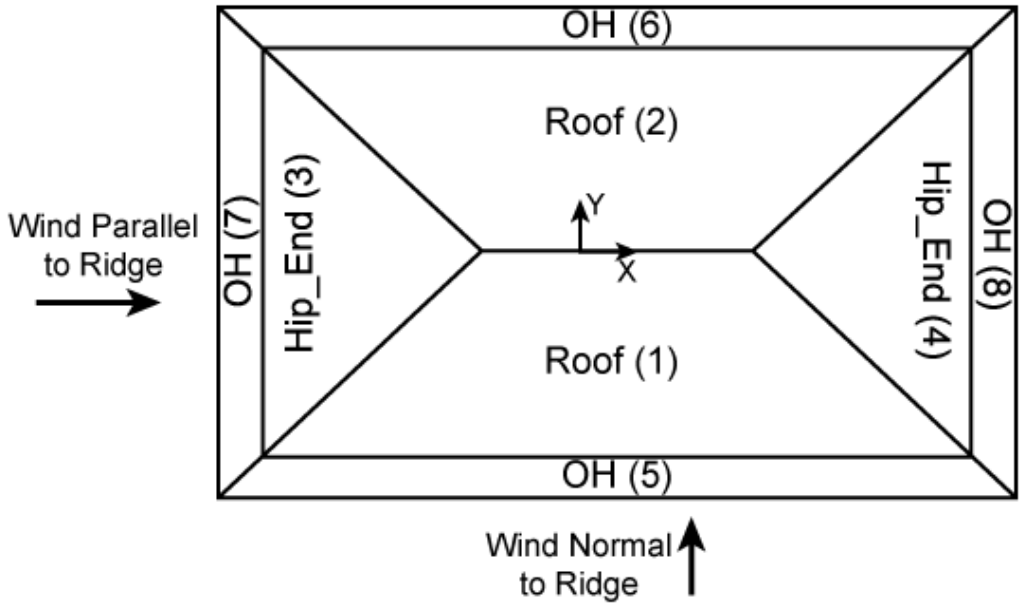
**Building:**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Roof | = | Roof Type | = Hipped | Encl | = | Enclosure Classification | = Enclosed |
| Help | = | Help on Building Roof Type | = Help | Pitch | = | Pitch of Roof | = 7.0 :12 |
| θ | = | Slope of Roof | = 30.26 Deg | $R_{Ht}$ | = | Ridge Height | = 36.992 ft |
| $E_{Ht}$ | = | Eave Height | = 26.200 ft | W | = | Building Width | = 53.500 ft |
| L | = | Building Length | = 87.000 ft | HipLen | = | Ridge Hipped Length | = 5.000 ft |
| EndSlope | = | Hipped End Slope of Roof | = 14.75 Deg | OH | = | Type of Overhang | = None |
| Par | = | Parapet | = None | $HT_{over}$ | = | Override Mean Roof Height | = False |
| $Ht_{man}$ | = | Mean Roof Height | = 31.596 ft | $RA_{over}$ | = | Override Roof Area | = False |
| $GC_{pi_o}$ | = | Override $GC_{pi}$ value | = False | IsElev | = | Building is Elevated | = False |

**Exposure Constants [Tbl 26.11-1]:**

| | | | | | |
|---|---|---|---|---|---|
| α = 3-s Gust-speed exponent | = | 9.800 | $Z_g$ = Nominal Ht of Boundary Layer | = | 2460.000 ft |
| â = Reciprocal of α | = | 0.102 | b = 3 sec gust speed factor | = | 1.000 |
| $\alpha_m$ = Mean hourly Wind-Speed Exponent | = | 0.156 | $b_m$ = Mean hourly Windspeed Exponent | = | 0.660 |
| c = Turbulence Intensity Factor | = | 0.200 | ε = Integral Length Scale Exponent | = | 0.2000 |

## Main Wind Force Resisting System (MWFRS) Wind Calculations per Ch 27




| | | | | |
|---|---|---|---|---|
| h | = | Mean structure height | = | 31.596 ft |
| $K_h$ | = | $2.41 \cdot (Z/Z_g)^{2/\alpha}$ [Tbl 26.10-1] | = | 0.991 |
| $K_{zt}$ | = | Topographic: $(1+K_1 \cdot K_2 \cdot K_3)^{\wedge 2}$ [Eq 26.8-1] | = | 1.000 |
| $K_d$ | = | Wind Directionality Factor per Tbl 26.6-1 | = | 0.85 |

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|---|---|---|---|---|
| $+GC_{pi}$ | = | Enclosed Positive Internal Pressure Tbl 26.13-1 | = | +0.18 |
| $-GC_{pi}$ | = | Enclosed Negative Internal Pressure Tbl 26.13-1 | = | -0.18 |
| LF | = | Load Factor based upon ASD Design | = | 0.60 |
| $K_e$ | = | Ground Elev Factor [Tbl 26.10-1] | = | 1.000 |
| $q_h$ | = | $0.00256 \cdot K_h \cdot K_{zt} \cdot K_e \cdot V^2 * LF$ [Eq 26.10-1] | = | 46.61 psf |
| RA | = | Roof Area | = | 4921.93 $ft^2$ |
| $q_h$ | = | $0.00256 \cdot K_h \cdot K_{zt} \cdot K_e \cdot V^2 * LF$ [Eq 26.10-1] | = | 46.61 psf |
| $q_{in}$ | = | Negative Internal Pressure: $q_h \cdot LF$ | = | 46.61 psf |
| $q_{ip}$ | = | Positive Internal Pressure: $q_h \cdot LF$ | = | 46.61 psf |

## MWFRS Wind Loads [Normal to Ridge]

| | | | | |
|---|---|---|---|---|
| h | = | Mean Roof Height Of Building | = | 31.596 ft |
| RHt | = | Ridge Height Of Roof | = | 36.992 ft |
| B | = | Horizontal Dimension Of Building Normal To Wind Direction | = | 87.000 ft |
| L | = | Horizontal Dimension Of building Parallel To Wind Direction | = | 53.500 ft |
| L/B | = | Ratio Of L/B used For Cp determination | = | 0.615 |
| h/L | = | Ratio Of h/L used For Cp determination | = | 0.591 |
| Slope | = | Slope Of Main Roof | = | 30.26 Deg |
| HipSlope | = | Slope Of Hipped Ends of Roof | = | 14.75 Deg |

## Gust Factor Calculation for Wind: [Normal to Ridge]

**Gust Factor Category I Rigid Structures - Simplified Method**

| | | | | |
|---|---|---|---|---|
| $G_1$ | = | Simplified: For Rigid Structures can use 0.85 | = | 0.85 |

**Gust Factor Category II Rigid Structures - Complete Analysis**

| | | | | |
|---|---|---|---|---|
| $Z_m$ | = | Equiv Struc Height: Max(0.6•h, $Z_{min}$) | = | 18.958 ft |
| $I_{zm}$ | = | Turbulence Intensity: $c \cdot (33/Z_m)^{1/6}$ [Eq 26.11-7] | = | 0.219 |
| $L_{zm}$ | = | Turbulence Integral Length Scale: $\ell \cdot (Z_m/33)^{\varepsilon}$ [Eq 26.11-9] | = | 447.531 ft |
| B | = | Building Width Width Normal to Wind Direction | = | 87.000 ft |
| Q | = | $[1/(1+0.63 \cdot [(B+h)/L_{zm}]^{0.63})]^{0.5}$ [Eq 26.11-8] | = | 0.886 |
| $G_2$ | = | Detailed: $0.925 \cdot [(1+1.7 \cdot g_q \cdot I_{zm} \cdot Q)/(1+1.7 \cdot g_v \cdot I_{zm})]$ [Eq 26.11-6] | = | 0.866 |

**Gust Factor Used in Analysis**

| | | | | |
|---|---|---|---|---|
| G | = | Gust Factor: Min($G_1$, $G_2$) | = | 0.850 |

| | | | | |
|---|---|---|---|---|
| $Cp_{WW}$ | = | Windward Wall Coefficient (All L/B Values) | = | 0.800 |
| $Cp_{LW}$ | = | Leeward Wall Coefficient using L/B | = | -0.500 |
| $Cp_{SW}$ | = | Side Wall Coefficient (All L/B values) | = | -0.700 |

**Wind Pressures [Normal to Ridge]**
**All wind pressures include a Load Factor (LF) of 0.6**

| Elev ft | $GC_{pi}$ | $q_i$ psf | $K_z$ | $K_{zt}$ | $q_z$ psf | Windward Press psf | Leeward Press psf | Side Press psf | Total Press psf | Minimum Pressure* psf |
|---|---|---|---|---|---|---|---|---|---|---|
| 26.200 | +0.18 | 46.61 | 0.954 | 1.000 | 44.86 | 18.80 | -23.97 | -30.71 | 42.77 | 9.60 |
| | | | | | | | | | | |
| 26.200 | -0.18 | 46.61 | 0.954 | 1.000 | 44.86 | 33.06 | -9.71 | -16.44 | 42.77 | 9.60 |

*$K_z$ = $2.41 \cdot (Z/Z_g)^{2/\alpha}$*
*$GC_{pi}$ = Enclosed Internal Pressure Tbl 26.13-1*
*$q_{ip}$ = Positive Internal Pressure: $q_h \cdot LF$*
*Side = $q_h \cdot K_d \cdot G \cdot Cp_{SW} - q_{ip} \cdot K_d \cdot (+GC_{pi})$ Eq 27.3-1*
*Windward = $q_z \cdot K_d \cdot G \cdot Cp_{WW} - q_{ip} \cdot K_d \cdot (+GC_{pi})$ Eq 27.3-1*

*$K_{zt}$ = Topographic: $(1+K_1 \cdot K_2 \cdot K_3)^{\wedge 2}$ [Eq 26.8-1]*
*$q_z$ = $0.00256 \cdot K_z \cdot K_{zt} \cdot K_e \cdot V^2 * LF$ [Eq 26.10-1]*
*$q_{in}$ = Negative Internal Pressure: $q_h \cdot LF$*
*Leeward = $q_h \cdot K_d \cdot G \cdot Cp_{LW} - q_{ip} \cdot K_d \cdot (+GC_{pi})$ Eq 27.3-1*
*Total = Windward - Leeward*

- *Minimum Pressure: § 27.1.5 no less than 9.60 psf (Incl LF) applied to Walls*
- *Positive Pressures Act TOWARD Surface and Negative Pressures Act AWAY from Surface*

**Roof Wind Pressures [Normal to Ridge]**
**All wind pressures include a Load Factor (LF) of 0.6**

| Component | Description | Location | Start ft | End ft | $GC_{pi}$ | $C_{pMin}$ | $C_{pMax}$ | $P_{C_{pMin}}$ psf | $P_{C_{pMax}}$ psf | $P_{min}$ psf |
|---|---|---|---|---|---|---|---|---|---|---|
| Hip_End | Hipped End (0 to h/2) | 3,4 | 0.000 | 15.798 | +0.18 | -0.925 | -0.180 | -38.30 | -13.19 | 4.80 |
| Hip_End | Hipped End (h/2 to h) | 3,4 | 15.798 | 31.596 | +0.18 | -0.864 | -0.180 | -36.22 | -13.19 | 4.80 |
| Hip_End | Hipped End (h to 2*h) | 3,4 | 31.596 | 53.500 | +0.18 | -0.536 | -0.180 | -25.19 | -13.19 | 4.80 |
| Roof_LW | Roof Leeward | 2 | All | All | +0.18 | -0.600 | -0.600 | -27.34 | -27.34 | 4.80 |
| Roof_WW | Roof Windward | 1 | All | All | +0.18 | 0.204 | -0.217 | -0.25 | -14.45 | 4.80 |
| | | | | | | | | | | |
| Hip_End | Hipped End (0 to h/2) | 3,4 | 0.000 | 15.798 | -0.18 | -0.925 | -0.180 | -24.03 | 1.07 | 4.80 |
| Hip_End | Hipped End (h/2 to h) | 3,4 | 15.798 | 31.596 | -0.18 | -0.864 | -0.180 | -21.96 | 1.07 | 4.80 |
| Hip_End | Hipped End (h to 2*h) | 3,4 | 31.596 | 53.500 | -0.18 | -0.536 | -0.180 | -10.93 | 1.07 | 4.80 |
| Roof_LW | Roof Leeward | 2 | All | All | -0.18 | -0.600 | -0.600 | -13.07 | -13.07 | 4.80 |
| Roof_WW | Roof Windward | 1 | All | All | -0.18 | 0.204 | -0.217 | 14.01 | -0.18 | 4.80 |

*Roof Pressures based upon Ch 27:*

*Component = The building component for pressures* | *Location = Reference Graphic in Output for Values*

*Start = Start Dist from Windward Edge* | *End = End Dist from Windward Edge*

*$C_{pMin}$ = Smallest Coefficient Magnitude* | *$C_{pMax}$ = Largest Coefficient Magnitude*

*$P_{cpMin}$ = $q_h \cdot K_d \cdot G \cdot C_{pMin} - q_{ip} \cdot K_d \cdot GC_{pi}$ [Eq 27.3-1]* | *$P_{cpMax}$ = $q_h \cdot K_d \cdot G \cdot C_{pMax} - q_{in} \cdot K_d \cdot GC_{pi}$ [Eq 27.3-1]*

*$P_{min}$ = Min Press projected on vertical plane [§ 27.1.5]*

- *0.800 Reduction Factor applied for h/L>=1 & 10<=Slope<=15 Deg*
- *The smaller uplift pressures due to $C_{pMin}$ can become critical when wind is combined with roof live load or snow load; load combinations are given in ASCE 7*
- *Positive Pressures Act TOWARD Surface and Negative Pressures Act AWAY from Surface*

## MWFRS Wind Loads [Parallel to Ridge]

| | | | | |
|---|---|---|---|---|
| h | = | Mean Roof Height Of Building | = | 31.596 ft |
| RHt | = | Ridge Height Of Roof | = | 36.992 ft |
| B | = | Horizontal Dimension Of Building Normal To Wind Direction | = | 53.500 ft |
| L | = | Horizontal Dimension Of building Parallel To Wind Direction | = | 87.000 ft |
| L/B | = | Ratio Of L/B used For Cp determination | = | 1.626 |
| h/L | = | Ratio Of h/L used For Cp determination | = | 0.363 |
| Slope | = | Slope Of Main Roof | = | 30.26 Deg |
| HipSlope | = | Slope Of Hipped Ends of Roof | = | 14.75 Deg |

## Gust Factor Calculation for Wind: [Parallel to Ridge]

**Gust Factor Category I Rigid Structures - Simplified Method**

| | | | | |
|---|---|---|---|---|
| $G_1$ | = | Simplified: For Rigid Structures can use 0.85 | = | 0.85 |

**Gust Factor Category II Rigid Structures - Complete Analysis**

| | | | | |
|---|---|---|---|---|
| $Z_m$ | = | Equiv Struc Height: Max(0.6•h, $Z_{min}$) | = | 18.958 ft |
| $I_{zm}$ | = | Turbulence Intensity: $c \cdot (33/Z_m)^{1/6}$ [Eq 26.11-7] | = | 0.219 |
| $L_{zm}$ | = | Turbulence Integral Length Scale: $\ell \cdot (Z_m/33)^{\varepsilon}$ [Eq 26.11-9] | = | 447.531 ft |
| B | = | Building Width Width Normal to Wind Direction | = | 53.500 ft |
| Q | = | $[1/(1+0.63 \cdot [(B+h)/L_{zm}]^{0.63})]^{0.5}$ [Eq 26.11-8] | = | 0.905 |
| $G_2$ | = | Detailed: $0.925 \cdot [(1+1.7 \cdot g_q \cdot I_{zm} \cdot Q)/(1+1.7 \cdot g_v \cdot I_{zm})]$ [Eq 26.11-6] | = | 0.876 |

**Gust Factor Used in Analysis**

| | | | | |
|---|---|---|---|---|
| G | = | Gust Factor: Min($G_1$, $G_2$) | = | 0.850 |

| | | | | |
|---|---|---|---|---|
| $Cp_{WW}$ | = | Windward Wall Coefficient (All L/B Values) | = | 0.800 |
| $Cp_{LW}$ | = | Leeward Wall Coefficient using L/B | = | -0.375 |
| $Cp_{SW}$ | = | Side Wall Coefficient (All L/B values) | = | -0.700 |

**Wind Pressures [Parallel to Ridge]**
**All wind pressures include a Load Factor (LF) of 0.6**

| Elev ft | $GC_{pi}$ | $q_i$ psf | $K_z$ | $K_{zt}$ | $q_z$ psf | Windward Press psf | Leeward Press psf | Side Press psf | Total Press psf | Minimum Pressure* psf |
|---|---|---|---|---|---|---|---|---|---|---|
| 26.200 | +0.18 | 46.61 | 0.954 | 1.000 | 44.86 | 18.80 | -19.75 | -30.71 | 38.55 | 9.60 |
| | | | | | | | | | | |
| 26.200 | -0.18 | 46.61 | 0.954 | 1.000 | 44.86 | 33.06 | -5.49 | -16.44 | 38.55 | 9.60 |

*$K_z$ = $2.41 \cdot (Z/Z_g)^{2/\alpha}$* | *$K_{zt}$ = Topographic: $(1+K_1 \cdot K_2 \cdot K_3)^{\wedge 2}$ [Eq 26.8-1]*

*$GC_{pi}$ = Enclosed Internal Pressure Tbl 26.13-1* | *$q_z$ = $0.00256 \cdot K_z \cdot K_{zt} \cdot K_e \cdot V^2 \cdot LF$ [Eq 26.10-1]*

*$q_{ip}$ = Positive Internal Pressure: $q_h \cdot LF$* | *$q_{in}$ = Negative Internal Pressure: $q_h \cdot LF$*

*Side = $q_h \cdot K_d \cdot G \cdot Cp_{SW} - q_{ip} \cdot K_d \cdot (+GC_{pi})$ Eq 27.3-1* | *Leeward = $q_h \cdot K_d \cdot G \cdot Cp_{LW} - q_{ip} \cdot K_d \cdot (+GC_{pi})$ Eq 27.3-1*

*Windward = $q_z \cdot K_d \cdot G \cdot Cp_{WW} - q_{ip} \cdot K_d \cdot (+GC_{pi})$ Eq 27.3-1* | *Total = Windward - Leeward*

- *Minimum Pressure: § 27.1.5 no less than 9.60 psf (Incl LF) applied to Walls*
- *Positive Pressures Act TOWARD Surface and Negative Pressures Act AWAY from Surface*

**Roof Wind Pressures [Parallel to Ridge]**
**All wind pressures include a Load Factor (LF) of 0.6**

| Component | Description | Location | Start ft | End ft | $GC_{pi}$ | $C_{pMin}$ | $C_{pMax}$ | $P_{cpMin}$ psf | $P_{cpMax}$ psf | $P_{min}$ psf |
|---|---|---|---|---|---|---|---|---|---|---|
| Hip_End | Hipped End (0 to h) | 3 | 0.000 | 31.596 | +0.18 | -0.900 | -0.180 | -37.44 | -13.19 | 4.80 |
| Hip_End | Hipped End (h to 2*h) | 3,4 | 31.596 | 63.192 | +0.18 | -0.500 | -0.180 | -23.97 | -13.19 | 4.80 |
| Hip_End | Hipped End (>= 2*h) | 4 | 63.192 | 87.000 | +0.18 | -0.300 | -0.180 | -17.24 | -13.19 | 4.80 |
| Roof | Roof (0 to h) | 5,6 | 0.000 | 31.596 | +0.18 | -0.900 | -0.180 | -37.44 | -13.19 | 4.80 |
| Roof | Roof (h to 2*h) | 5,6 | 31.596 | 63.192 | +0.18 | -0.500 | -0.180 | -23.97 | -13.19 | 4.80 |
| Roof | Roof (>= 2*h) | 5,6 | 63.192 | 87.000 | +0.18 | -0.300 | -0.180 | -17.24 | -13.19 | 4.80 |
| | | | | | | | | | | |
| Hip_End | Hipped End (0 to h) | 3 | 0.000 | 31.596 | -0.18 | -0.900 | -0.180 | -23.18 | 1.07 | 4.80 |
| Hip_End | Hipped End (h to 2*h) | 3,4 | 31.596 | 63.192 | -0.18 | -0.500 | -0.180 | -9.71 | 1.07 | 4.80 |
| Hip_End | Hipped End (>= 2*h) | 4 | 63.192 | 87.000 | -0.18 | -0.300 | -0.180 | -2.97 | 1.07 | 4.80 |
| Roof | Roof (0 to h) | 5,6 | 0.000 | 31.596 | -0.18 | -0.900 | -0.180 | -23.18 | 1.07 | 4.80 |
| Roof | Roof (h to 2*h) | 5,6 | 31.596 | 63.192 | -0.18 | -0.500 | -0.180 | -9.71 | 1.07 | 4.80 |
| Roof | Roof (>= 2*h) | 5,6 | 63.192 | 87.000 | -0.18 | -0.300 | -0.180 | -2.97 | 1.07 | 4.80 |

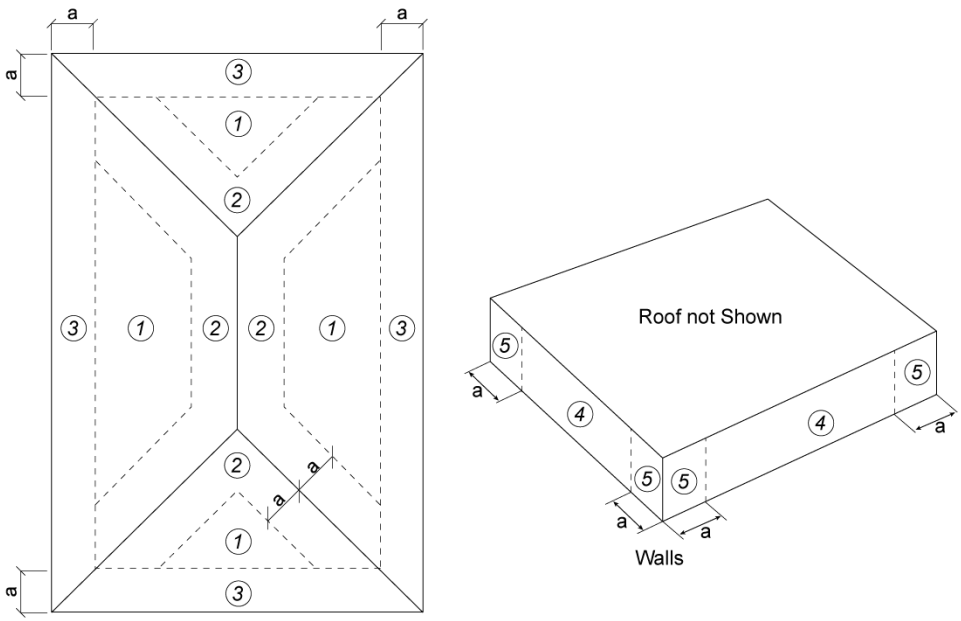
*Roof Pressures based upon Ch 27:*

| | | | |
|---|---|---|---|
| *Component* | = *The building component for pressures* | *Location* | = *Reference Graphic in Output for Values* |
| *Start* | = *Start Dist from Windward Edge* | *End* | = *End Dist from Windward Edge* |
| $C_{pMin}$ | = *Smallest Coefficient Magnitude* | $C_{pMax}$ | = *Largest Coefficient Magnitude* |
| $P_{cpMin}$ | = $q_h \cdot K_d \cdot G \cdot C_{pMin} - q_{ip} \cdot K_d \cdot GC_{pi}$ *[Eq 27.3-1]* | $P_{cpMax}$ | = $q_h \cdot K_d \cdot G \cdot C_{pMax} - q_{in} \cdot K_d \cdot GC_{pi}$ *[Eq 27.3-1]* |

$P_{min}$ = *Min Press projected on vertical plane [§ 27.1.5]*

- *No reduction factor was applicable*
- *The smaller uplift pressures due to $C_{pMin}$ can become critical when wind is combined with roof live load or snow load; load combinations are given in ASCE 7*
- *Positive Pressures Act TOWARD Surface and Negative Pressures Act AWAY from Surface*

## Components and Cladding (C&C) Wind Loads per Ch 30 Part 1 Roof & Wall




| | | | | |
|---|---|---|---|---|
| h/W | = | Ratio of mean roof height to building width | = | 0.591 |
| h/L | = | Ratio of mean roof height to building length | = | 0.363 |
| h | = | Mean structure height | = | 31.596 ft |
| $K_h$ | = | $2.41 \cdot (Z/Z_g)^{2/\alpha}$ | = | 0.991 |
| $K_{zt}$ | = | Topographic: $(1+K_1 \cdot K_2 \cdot K_3)^{\wedge 2}$ [Eq 26.8-1] | = | 1.000 |
| $K_d$ | = | Wind Directionality Factor per Tbl 26.6-1 | = | 0.85 |
| $+GC_{pi}$ | = | Enclosed Positive Internal Pressure Tbl 26.13-1 | = | +0.18 |
| $-GC_{pi}$ | = | Enclosed Negative Internal Pressure Tbl 26.13-1 | = | -0.18 |
| LF | = | Load Factor based upon ASD Design | = | 0.60 |
| $K_e$ | = | Ground Elev Factor [Tbl 26.10-1] | = | 1.000 |
| $q_h$ | = | $0.00256 \cdot K_h \cdot K_{zt} \cdot K_e \cdot V^2 * LF$ [Eq 26.10-1] | = | 46.61 psf |
| LHD | = | Least Horizontal Dimension: Min(B, L) | = | 53.500 ft |
| $a_1$ | = | Min(0.1•LHD, 0.4•h) | = | 5.350 ft |
| a | = | Max($a_1$, 0.04•LHD, 3 ft [0.9 m]) | = | 5.350 ft |
| h/B | = | Ratio of mean roof height to least horizontal dim: h/B | = | 0.591 |

**Wind Pressures for C&C Ch 30 Pt 1 Roof & Wall**
**All wind pressures include a Load Factor (LF) of 0.6**

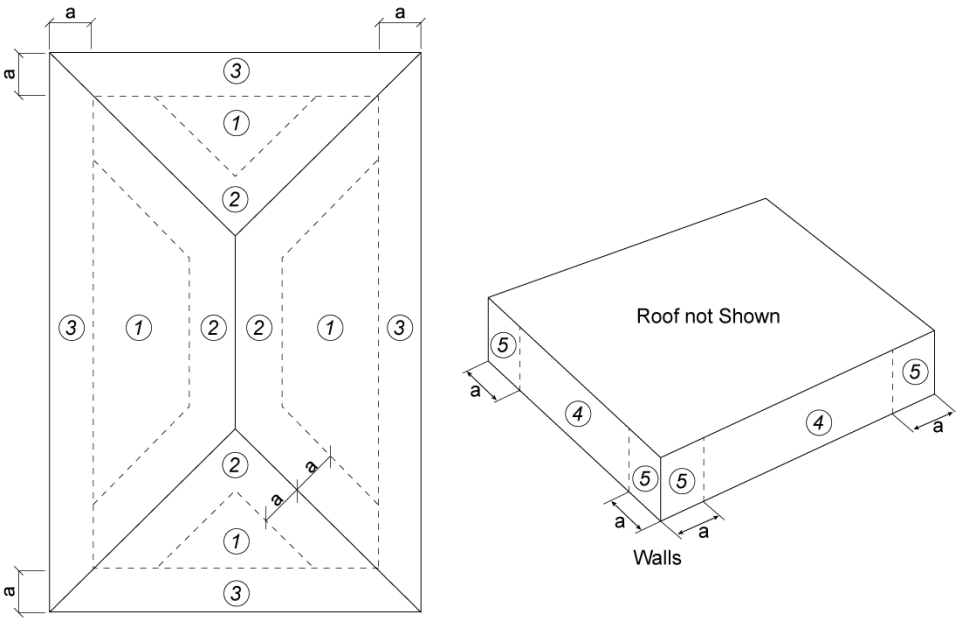
| Description | Zone | Width ft | Span ft | Area ft² | 1/3 Rule | Figure | GCp Max | GCp Min | p Max psf | p Min psf |
|---|---|---|---|---|---|---|---|---|---|---|
| Zone 1- 10 SF | 1 | 2.000 | 5.000 | 10.00 | No | 30.3-2G | 0.700 | -1.418 | 34.87 | -63.32 |
| Zone 2e- 10 SF | 2 | 2.000 | 5.000 | 10.00 | No | 30.3-2G | 0.700 | -1.964 | 34.87 | -84.94 |
| Zone 2r- 10 SF | 2 | 2.000 | 5.000 | 10.00 | No | 30.3-2G | 0.700 | -1.964 | 34.87 | -84.94 |
| Zone 3- 10 SF | 3 | 2.000 | 5.000 | 10.00 | No | 30.3-2G | 0.700 | -2.072 | 34.87 | -89.24 |
| Zone 4- 10 SF | 4 | 2.000 | 5.000 | 10.00 | No | 30.3-1 | 1.000 | -1.100 | 46.75 | -50.71 |
| Zone 5- 10 SF | 5 | 2.000 | 5.000 | 10.00 | No | 30.3-1 | 1.000 | -1.400 | 46.75 | -62.60 |

*Area = Span Length x Effective Width*
*1/3 Rule = Effective width need not be less than 1/3 of the span length*
*GCp = External Pressure Coefficients taken from Figures 30.3-1 through 30.3-7*
*p = Wind Pressure: $q_h \cdot K_d \cdot [GC_p - GC_{pi}]$ [Eq 30.3-1]*

** Per § 30.2.2 the Minimum Pressure for C&C is 9.60 psf [0.460 kPa] {Includes LF}*

## Components and Cladding (C&C) Wind Roof & Wall Summary per Ch 30 Pt 1:

| | | | | |
|---|---|---|---|---|
| h/W | = | Ratio of mean roof height to building width | = | 0.591 |
| h/L | = | Ratio of mean roof height to building length | = | 0.363 |
| h | = | Mean structure height | = | 31.596 ft |
| $K_h$ | = | $2.41 \cdot (Z/Z_g)^{2/\alpha}$ | = | 0.991 |
| $K_{zt}$ | = | Topographic: $(1+K_1 \cdot K_2 \cdot K_3)^{\wedge 2}$ [Eq 26.8-1] | = | 1.000 |
| $K_d$ | = | Wind Directionality Factor per Tbl 26.6-1 | = | 0.85 |
| $+GC_{pi}$ | = | Enclosed Positive Internal Pressure Tbl 26.13-1 | = | +0.18 |
| $-GC_{pi}$ | = | Enclosed Negative Internal Pressure Tbl 26.13-1 | = | -0.18 |
| LF | = | Load Factor based upon ASD Design | = | 0.60 |
| $K_e$ | = | Ground Elev Factor [Tbl 26.10-1] | = | 1.000 |
| $q_h$ | = | $0.00256 \cdot K_h \cdot K_{zt} \cdot K_e \cdot V^2 * LF$ [Eq 26.10-1] | = | 46.61 psf |
| LHD | = | Least Horizontal Dimension: Min(B, L) | = | 53.500 ft |
| $a_1$ | = | Min(0.1•LHD, 0.4•h) | = | 5.350 ft |
| a | = | Max($a_1$, 0.04•LHD, 3 ft [0.9 m]) | = | 5.350 ft |
| h/B | = | Ratio of mean roof height to least horizontal dim: h/B | = | 0.591 |




**Wind Pressure Summary for C&C Roof & Wall based Upon Areas Ch 30 Pt 1 (Table 1 of 2)**
**All wind pressures include a Load Factor (LF) of 0.6**

| Zone | Figure | Pos A ≤ 10 ft² psf | Neg A ≤ 10 ft² psf | Pos A = 20 ft² psf | Neg A = 20 ft² psf | Pos A = 50 ft² psf | Neg A = 50 ft² psf |
|---|---|---|---|---|---|---|---|
| 1 | 30.3-2G | 34.87 | -63.32 | 30.10 | -55.73 | 23.79 | -45.70 |
| 2 | 30.3-2G | 34.87 | -84.94 | 30.10 | -73.01 | 23.79 | -57.25 |
| 3 | 30.3-2G | 34.87 | -89.24 | 30.10 | -76.45 | 23.79 | -59.54 |
| 4 | 30.3-1 | 46.75 | -50.71 | 44.65 | -48.61 | 41.86 | -45.82 |
| 5 | 30.3-1 | 46.75 | -62.60 | 44.65 | -58.39 | 41.86 | -52.82 |

**Wind Pressure Summary for C&C Roof & Wall based Upon Areas Ch 30 Pt 1 (Table 2 of 2)**
**All wind pressures include a Load Factor (LF) of 0.6**

| Zone | Figure | Pos A = 100 ft² psf | Neg A = 100 ft² psf | Pos A = 200 ft² psf | Neg A = 200 ft² psf | Pos A > 500 ft² psf | Neg A > 500 ft² psf |
|---|---|---|---|---|---|---|---|
| 1 | 30.3-2G | 19.02 | -38.11 | 19.02 | -38.11 | 19.02 | -38.11 |
| 2 | 30.3-2G | 19.02 | -45.32 | 19.02 | -45.32 | 19.02 | -45.32 |
| 3 | 30.3-2G | 19.02 | -46.75 | 19.02 | -46.75 | 19.02 | -46.75 |
| 4 | 30.3-1 | 39.76 | -43.72 | 37.65 | -41.61 | 34.87 | -38.83 |
| 5 | 30.3-1 | 39.76 | -48.61 | 37.65 | -44.40 | 34.87 | -38.83 |

** A is effective wind area for C&C: Span Length * Effective Width*
** Effective width need not be less than 1/3 of the span length*
** Maximum and minimum values of pressure shown.*
** + Pressures acting toward surface, - Pressures acting away from surface*
** Per § 30.2.2 the Minimum Pressure for C&C is 9.60 psf [0.460 kPa] {Includes LF}*
** Interpolation can be used for values of A that are between those values shown.*

- CMU Wall Design

Height of CMU wall is 14.5'(First Floor Height)-2'(Beam Depth)=12.5'.

Based on Mecawind calculation, we have:

These loads are based on area A=50 sf.

$$P_w = 52.82\ psf(zone\ 5)$$

$$F_{Ultimate} = \frac{52.82}{0.6} = 88.0834\ psf \approx 88\,psf$$

We don't consider gravity load (safety side).

**Use #5 @ 24" O.C for zone 4 & 5**

Please see next page for calculation.

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## MASONRY WALL PANEL DESIGN (TMS 402/602-16)

**In accordance with strength design method**

Tedds calculation version 2.2.11

### Masonry wall panel details

Reinforced single-wythe wall, the wall is pinned at the top and at the bottom for out of plane loads

The wall is fixed at the bottom and free at the top for in plane loads

Panel length L = **20** ft

Panel height h = **12.5** ft

### Seismic properties

Seismic design category A

Seismic importance factor (ASCE7 Table 1.5-2) $I_e$ = **1**

Design spectral response acceleration parameter, short periods (ASCE7 11.4.4)

$S_{DS}$ = **1**

Seismic wall classification Nonparticipating

No prescriptive minimum seismic reinforcement

Redundancy factor, on out-of-plane load $\rho_E$ = **1.0**

### Construction details

Wall thickness t = **7.625** in

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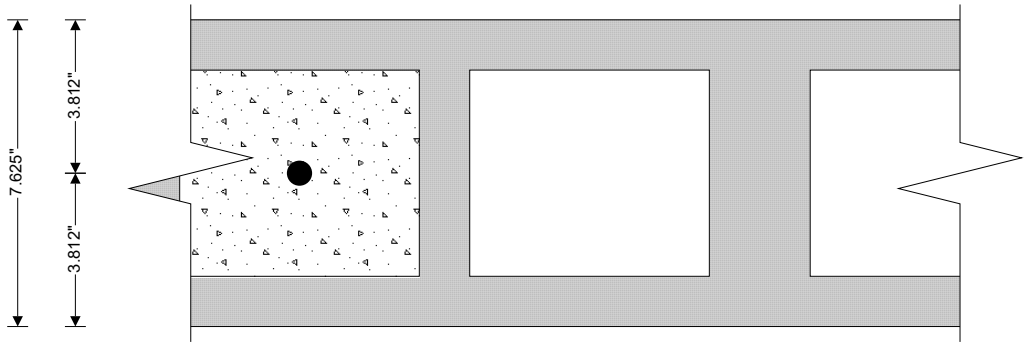
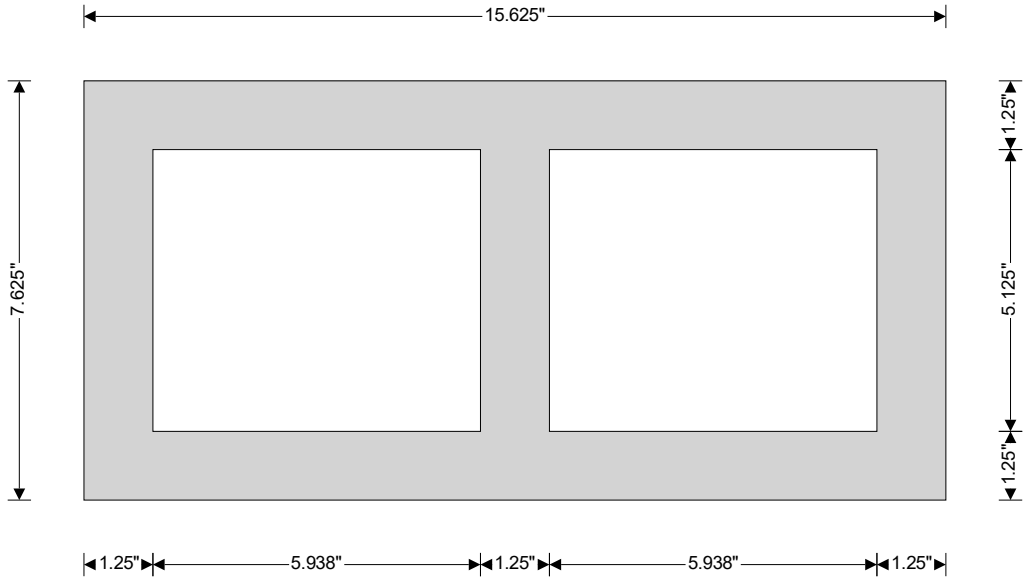
Structural Calcalculation.pdf




**Masonry details**

Hollow concrete units grouted at 24 in on center in running bond fully bedded with PCL class M mortar

| | |
|---|---|
| Compressive strength of unit | $f'_{cu}$ = **1900** psi |
| Density of masonry units | $\gamma_{block}$ = **115** lb/ft$^3$ |
| Height of masonry units | $h_b$ = **7.625** in |
| Length of masonry units | $l_b$ = **15.625** in |
| Number of internal webs | $N_{web}$ = **1** |
| Number of end webs | $N_{end}$ = **2** |
| Internal web thickness | $t_{bw}$ = **1.25** in |
| Face shell thickness | $t_{bf}$ = **1.25** in |
| End web thickness | $t_{be}$ = **1.25** in |
| Area of block | $A_{block} = [t \times l_b - (l_b - N_{web} \times t_{bw} - N_{end} \times t_{be}) \times (t - 2 \times t_{bf})] / l_b$ = **44.76** in$^2$/ft |
| Area of grout | $A_{grout} = [0.33 \times (l_b - N_{web} \times t_{bw} - N_{end} \times t_{be}) \times (t - 2 \times t_{bf})] / l_b$ = **15.42** in$^2$/ft |
| Density of grout | $\gamma_{grout}$ = **140** lb/ft$^3$ |
| Self weight of wall | $w_{SW} = A_{block} \times \gamma_{block} + A_{grout} \times \gamma_{grout}$ = **50.74** psf |

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**From TMS 602-16 Table 2 - Compressive strength of masonry**

Net compressive strength of masonry $f'_m$ = **1900** psi

Modulus of elasticity for masonry $E_m = 900 \times f'_m$ = **1710000** psi

Shear modulus of masonry $G_v = 0.4 \times E_m$ = **684000** psi

**From TMS 402 -16 Table 9.1.9.2 - Modulus of rupture**

Modulus of rupture normal to bed $f_{r_norm}$ = **110** psi

Modulus of rupture parallel to bed $f_{r_para}$ = **167** psi

**Reinforcement details**

Yield strength of reinforcement $f_y$ = **60000** psi

Allowable tensile stress in reinforcement $F_s$ = **32000** psi

Modulus of elasticity for reinforcement $E_s$ = **29000000** psi

Vertical reinforcement provided No.5 bars at 24 in centers

Area of vertical reinforcement $A_s = \pi \times Dia^2 / (4 \times s)$ = **0.15** $in^2/ft$

**Lateral out-of-plane loads**

Wind load on panel W = **88** psf

Wind load on parapet $W_p$ = **18** psf

Seismic load factor (ASCE7 12.11.1) $F_p = 0.4 \times S_{DS} \times I_e$ = **0.4**

Seismic load from wall $E_{wall} = \max(F_p, 0.1) \times w_{SW}$ = **20.3** psf

Additional seimic load $E_{add}$ = **0** psf

Seismic lateral load on panel $E = E_{wall} + E_{add}$ = **20.3** psf

**Lateral in-plane loads**

**Vertical loading details**

Vertical seismic load factor applied to dead load $F_{Ev} = 0.2 \times S_{DS}$ = **0.2**

**From ASCE 7-16 cl.2.3 - Combining factored loads using strength design (Utilization)**

Load combination no.1 $1.4 \times DL$ (0.017)

Load combination no.4 $1.2 \times DL + 1.6 \times (LL_r \text{ or } SL \text{ or } RL) + 0.5 \times W$ (0.336)

Load combination no.5 $1.2 \times DL + W + LL + 0.5 \times (LL_r \text{ or } SL \text{ or } RL)$ (0.678)

Load combination no.7 $0.9 \times DL + W$ (0.684)

**Properties of masonry section**

Cross-sectional area $A = [t \times l_b - 0.67 \times (l_b - N_{web} \times t_{bw} - N_{end} \times t_{be}) \times (t - 2 \times t_{bf})] / l_b$ = **60.2** $in^2/ft$

Properties for walls loaded out-of-plane:

Moment of inertia $I = t^3 / 12 - 0.67 \times (l_b - N_{web} \times t_{bw} - N_{end} \times t_{be}) \times (t - 2 \times t_{bf})^3 / (12 \times l_b)$ = **374.8** $in^4/ft$

Section modulus $S = I / c$ = **98.3** $in^3/ft$

Radius of gyration $r = \sqrt{[I / A]}$ = **2.495** in

Effective height factor K = **1**

**Consider wall at maximum moment location under load combination no.7**

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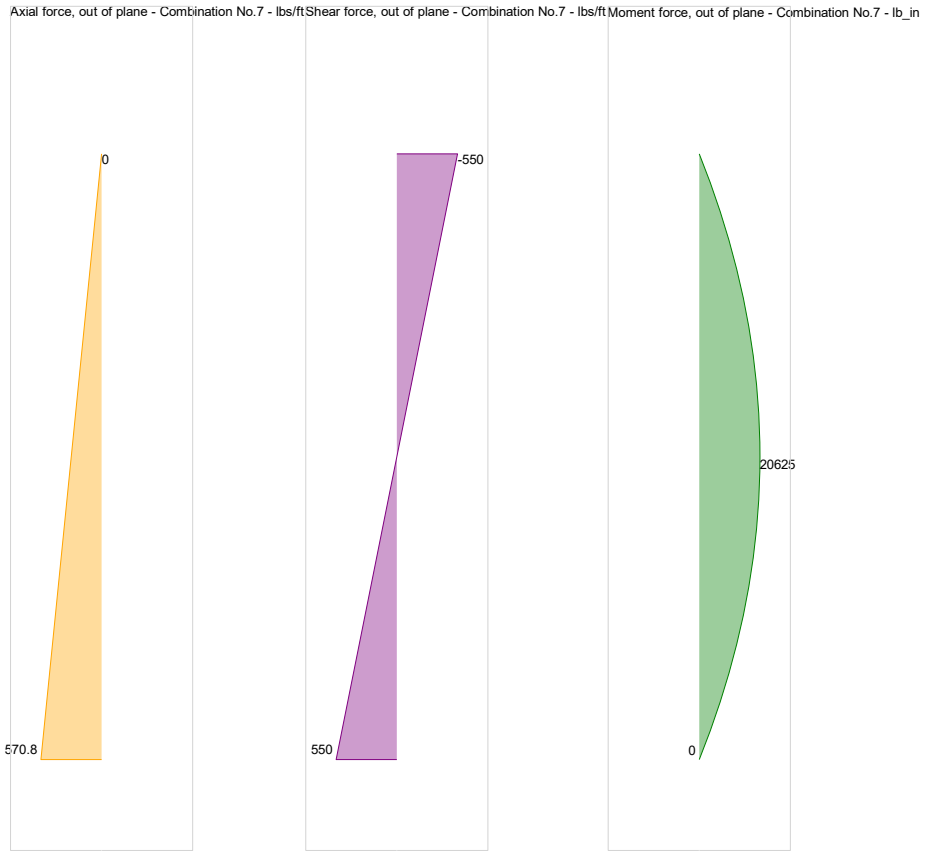


| | |
|---|---|
| Maximum moment location | 6.25 ft |
| Axial load at mid-height of panel | P = **285** lb/ft |
| Slenderness ratio | $(K \times h) / r$ = **60.110** < 99 |
| Nominal axial strength | $P_n = 0.8 \times (0.8 \times f'_m \times (A - A_s) + A_s \times 0\ ksi) \times [1 - ((K \times h) / (140 \times r))^2]$ = **59541** lb/ft |
| Strength reduction factor | $\phi$ = **0.9** |
| Design axial strength | $\phi \times P_n$ = **53587** lb/ft |
| | $P / (\phi \times P_n)$ = **0.005** |
| | ***PASS - Nominal axial strength exceeds axial load*** |
| Factored axial stress | P / t = **3** psi |
| Factored axial stress limit | $0.2 \times f'_m$ = **380** psi |
| | ***PASS - Allowable stress under out of plane loads exceeds factored axial stress*** |
| Nominal cracking moment strength | $M_{cr} = S \times f_{r_norm}$ = **10846** lb_in/ft |
| Modular ratio | $n = E_s / E_m$ = **16.959** |
| Distance to neutral axis | $c_{cr} = (A_s \times f_y + P) / (0.64 \times f'_m)$ = **0.65** in |
| Moment of inertia of cracked section | $I_{cr} = n \times (A_s + P \times t / (f_y \times 2 \times d)) \times (d - c_{cr})^2 + c_{cr}^3 / 3$ = **27.9** $in^4$/ft |
| By iteration | $M_{u0} = M$ = **20625** lb_in/ft |
| | $\delta_{u0} = 5 \times M_{cr} \times h^2 / (48 \times E_m \times I) + 5 \times (M_{u0} - M_{cr}) \times h^2 / (48 \times E_m \times I_{cr})$ = **0.520** in |
| | $M_{u1} = M_{u0} + P \times \delta_{u0}$ = **20773** lb_in/ft |

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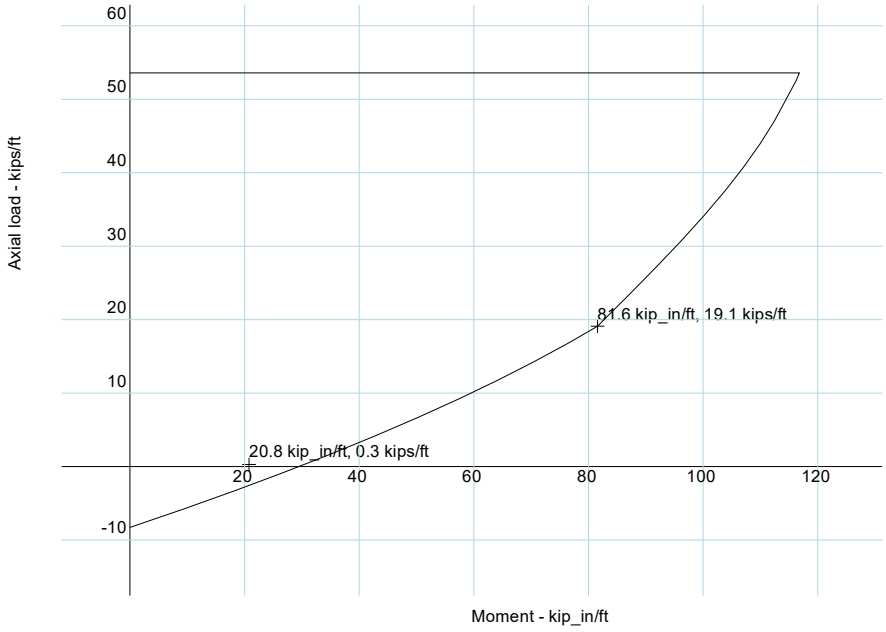
| | |
|---|---|
| | $\delta_{u1} = 5 \times M_{cr} \times h^2 / (48 \times E_m \times I) + 5 \times (M_{u1} - M_{cr}) \times h^2 / (48 \times E_m \times I_{cr}) =$ **0.527** in |
| Bending moment at mid-height of panel | $M = M_{u0} + P \times \delta_{u1} =$ **20775** lb_in/ft |
| Depth of reinforcement | $d =$ **3.813** in |
| Effective width per bar | $b_{eff} = \min(s, 6 \times t_{nom}, 72\text{ in}) =$ **24** in |
| Strength reduction factor | $\phi =$ **0.9** |
| Tensile strain in reinforcement | $\varepsilon_s = f_y / E_s =$ **0.0021** |
| Maximum usable compressive strain of masonry | $\varepsilon_{mu} =$ **0.0025** |
| Fiber of max.compressive strain to neutral axis | $c_{bal} = \varepsilon_{mu} \times d / (\varepsilon_{mu} + \varepsilon_s) =$ **2.086** in |
| Tensile force at balance point | $T_{bal} = A_s \times f_y =$ **9204** lb/ft |
| | $\beta_1 =$ **0.8** |
| Compressive force at balance point | $C_{bal} = 0.8 \times f'_m \times \beta_1 \times c_{bal} =$ **30440** lb/ft |
| Design axial force at balance point | $P_{bal} = \phi \times (C_{bal} - T_{bal}) =$ **19113** lb/ft |
| Design moment at balance point | $M_{bal} = \phi \times [T_{bal} \times (d - t / 2) + C_{bal} \times (t / 2 - \beta_1 \times c_{bal} / 2)] =$ **81588** lb_in/ft |
| Maximum design moment from interaction diagram | $M_c =$ **30386** lb_in/ft |
| | $M / M_c =$ **0.684** |
| | ***PASS - Combination of applied axial load and flexure is acceptable*** |
| Maximum area of tensile reinforcement (9.3.3.2) | $A_{s_max} = 0.64 \times f'_m \times [\varepsilon_{mu} / (\varepsilon_{mu} + 1.5 \times \varepsilon_s)] \times d / f_y =$ **0.414** in²/ft |
| | ***PASS - Area of reinforcement provided is less than maximum allowable*** |




**Strength interaction diagram**

**Consider wall at top under load combination no.7**

| | |
|---|---|
| Shear force | $V =$ **550** lb/ft |
| Compressive force | $N_u =$ **0** lb/ft |
| Net shear area | $A_{nv} = d \times l_b / ((N_{web} + 1) \times s_{grout}) =$ **14.893** in²/ft |

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| | |
|---|---|
| Nominal shear strength | $V_n = \min([4 - 1.75 \times \min(M / (V \times d), 1)] \times A_{nv} \times \sqrt{(f'_m \times 1\ psi)} + 0.25 \times N_u, 6 \times A_{nv} \times \sqrt{(f'_m \times 1\ psi)}) =$ **2597** lb/ft |
| Strength reduction factor | $\phi_v =$ **0.8** |
| Design shear strength | $\phi_v \times V_n =$ **2077** lb/ft |
| | $V / (\phi_v \times V_n) =$ **0.265** |
| | ***PASS - Design shear strength exceeds applied shear strength*** |

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- Concrete Beam Design (2B-15):

$$W_{DL} = \frac{150lb}{ft3} \times \frac{9"}{12} \times 12.0'(9" \; conc.slab \; at \; 2nd \; floor) + 35psf \; \times 12.0' = 1770 \; plf$$
$$\approx 1.8 \; k/ft$$

$$W_{LL} = 40psf \times 12.0' = 480 \; plf = 0.48 \; k/ft$$

Use 8"x26" with 2#7 Top, 2#8 Bottom, 1#5 E.F and #3 ties @ 6" O.C.

Please see next page for calculation.

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## RC BEAM ANALYSIS & DESIGN (ACI318-2019)

**In accordance with ACI318-2019**

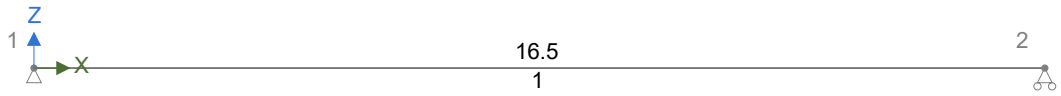
Tedds calculation version 3.3.16

## ANALYSIS

Tedds calculation version 1.0.37

### Geometry

**Geometry (ft) - Concrete (5000 150) - R 8x26**



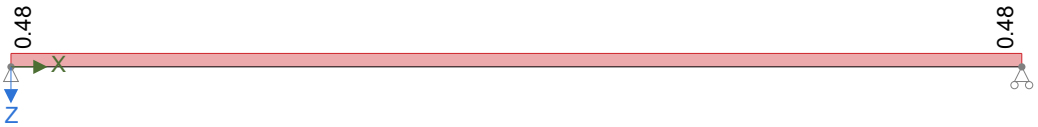

| Span | Length (ft) | Section | Start Support | End Support |
|---|---|---|---|---|
| 1 | 16.5 | R 8x26 | Pinned | Roller Pin X |
| R 8x26: Area 208 $in^2$, Inertia Major 11717 $in^4$, Inertia Minor 1109 $in^4$, Shear area parallel to Minor 173 $in^2$, Shear area parallel to Major 173 $in^2$ | | | | |
| Concrete (5000 150): Density 150 $lbm/ft^3$, Youngs 4287 ksi, Shear 1750 ksi, Thermal 0.00001 $°C^{-1}$ | | | | |

### Loading

Self weight included

**Dead - Loading (kips/ft)**

**Live - Loading (kips/ft)**




### Load combination factors

| Load combination | Self Weight | Dead | Live |
|---|---|---|---|
| 1.2D + 1.6L (Strength) | 1.20 | 1.20 | 1.60 |
| 1.0D + 1.0L (Service) | 1.00 | 1.00 | 1.00 |

### Member Loads

| Member | Load case | Load Type | Orientation | Description |
|---|---|---|---|---|
| Beam | Dead | UDL | GlobalZ | 1.8 kips/ft |
| Beam | Live | UDL | GlobalZ | 0.48 kips/ft |

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## Results

### Reactions

**Load case: Self Weight**

| Node | Force | | Moment |
|---|---|---|---|
| | Fx (kips) | Fz (kips) | My (kip_ft) |
| 1 | 0 | 1.788 | 0 |
| 2 | 0 | 1.788 | 0 |

**Load case: Dead**

| Node | Force | | Moment |
|---|---|---|---|
| | Fx (kips) | Fz (kips) | My (kip_ft) |
| 1 | 0 | 14.85 | 0 |
| 2 | 0 | 14.85 | 0 |

**Load case: Live**

| Node | Force | | Moment |
|---|---|---|---|
| | Fx (kips) | Fz (kips) | My (kip_ft) |
| 1 | 0 | 3.96 | 0 |
| 2 | 0 | 3.96 | 0 |

**Load combination: 1.2D + 1.6L (Strength)**

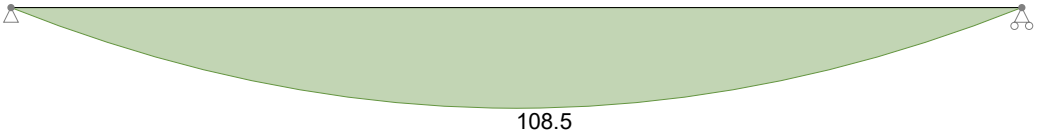
| Node | Force | | Moment |
|---|---|---|---|
| | Fx (kips) | Fz (kips) | My (kip_ft) |
| 1 | 0 | 26.301 | 0 |
| 2 | 0 | 26.301 | 0 |

**Load combination: 1.0D + 1.0L (Service)**

| Node | Force | | Moment |
|---|---|---|---|
| | Fx (kips) | Fz (kips) | My (kip_ft) |
| 1 | 0 | 20.598 | 0 |
| 2 | 0 | 20.598 | 0 |

### Forces

**Strength combinations - Moment envelope (kip_ft)**

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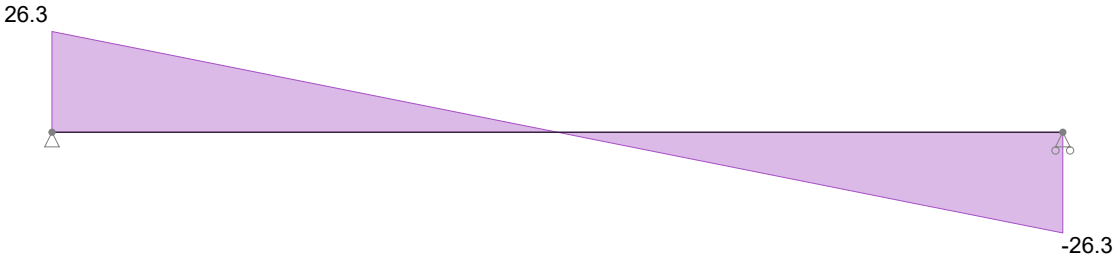
**Strength combinations - Shear envelope (kips)**




**Concrete details**

| | |
|---|---|
| Compressive strength of concrete | $f'_c$ = **5000** psi |
| Density of reinforced concrete | $w_c$ = **150** lb / ft$^3$ |
| Concrete type | Normal weight |
| Modulus of elasticity of concrete (cl.19.2.2.1) | $E = (w_c / 1\ lb/ft^3)^{1.5} \times 33\ psi \times (f'_c / 1\ psi)^{0.5}$ = **4286826** psi |
| Strength reduction factor for shear | $\phi_s$ = **0.75** |

**Reinforcement details**

| | |
|---|---|
| Yield strength of reinforcement | $f_y$ = **60000** psi |
| Compression-controlled strain limit (cl.21.2.2.1) | $\varepsilon_{ty}$ = **0.00200** |

**Nominal cover to reinforcement**

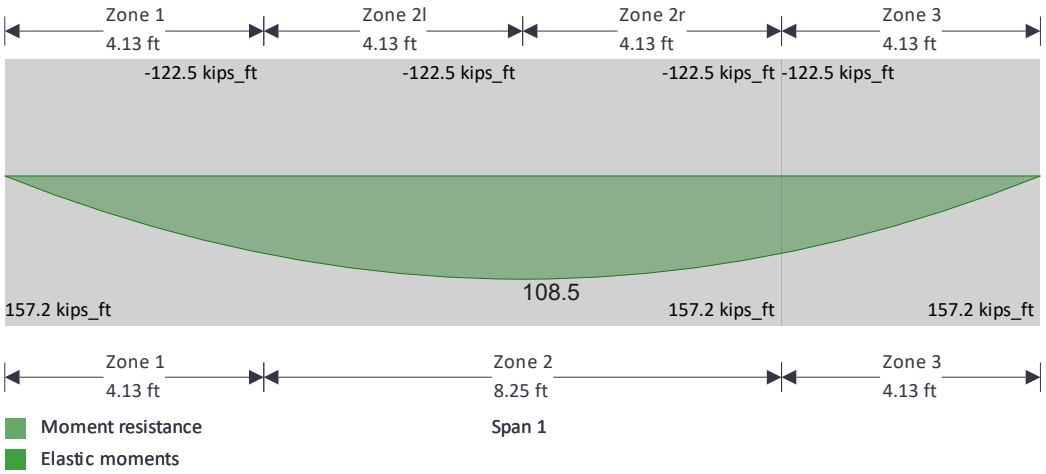
| | |
|---|---|
| Cover to top reinforcement | $c_{nom_t}$ = **1.5** in |
| Cover to bottom reinforcement | $c_{nom_b}$ = **1.5** in |
| Cover to side reinforcement | $c_{nom_s}$ = **1.5** in |

**Beam - Span 1**

**Rectangular section details**

| | |
|---|---|
| Section width | b = **8** in |
| Section depth | h = **26** in |

**Moment design**

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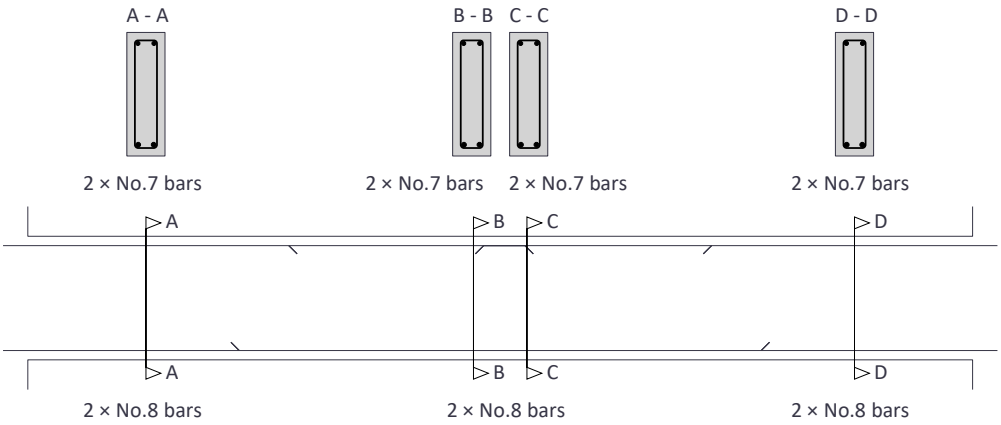


**Zone 1 - Positive moment. Rectangular section in flexure (Section 9.5.2)**

| | |
|---|---|
| Factored bending moment at section | $M_u = abs(M_{m1_s1_z1_max_red})$ = **81.369** kip_ft |
| Effective depth to tension reinforcement | d = **23.625** in |
| Tension reinforcement provided | 2 × No.8 bars |
| Area of tension reinforcement provided | $A_{s,prov}$ = **1.571** $in^2$ |
| Minimum area of reinforcement (cl.9.6.1.2) | $A_{s,min} = max(3\ psi \times \sqrt{(f'_c / 1\ psi)}, 200\ psi) \times b \times d / f_y$ = **0.668** $in^2$ |

***PASS - Area of reinforcement provided is greater than minimum area of reinforcement required***

| | |
|---|---|
| Stress block depth factor (cl.22.2.2.4.3) | $\beta_1 = min(max(0.85 - 0.05 \times (f'_c - 4\ ksi) / 1\ ksi, 0.65), 0.85)$ = **0.80** |
| Depth of equivalent rectangular stress block | $a = A_{s,prov} \times f_y / (0.85 \times f'_c \times b)$ = **2.772** in |
| Depth to neutral axis | $c = a / \beta_1$ = **3.465** in |
| Net tensile strain in extreme tension fibers | $\varepsilon_t = 0.003 \times (d_o - c) / max(c, 0.001\ in)$ = **0.01745** |

***Net tensile strain in tension controlled zone***

| | |
|---|---|
| Strength reduction factor (cl.21.2.1) | $\phi_f = min(max(0.65 + 0.25 \times (\varepsilon_t - \varepsilon_{ty}) / (0.003), 0.65), 0.9)$ = **0.90** |
| Nominal moment strength | $M_n = A_{s,prov} \times f_y \times (d - a / 2)$ = **174.665** kip_ft |
| Design moment strength | $\phi M_n = M_n \times \phi_f$ = **157.198** kip_ft |

***PASS - Required moment strength is less than design moment strength***

**Flexural cracking**

| | |
|---|---|
| Max. center to center spacing of tension reinf. | $s_{b,max} = s_{bot} + \phi_{m1_s1_z1_b_L1}$ = **3.250** in |
| Service load stress in reinforcement (cl.24.3.2) | $f_s = 2/3 \times f_y$ = **40000** psi |
| Clear cover of reinforcement | $c_c = c_{nom_b} + \phi_v$ = **1.875** in |
| Maximum allowable bot bar spacing (Table 24.3.2) | $s_{max} = min(15in \times 40000psi / f_s - 2.5 \times c_c, 12in \times 40000psi / f_s)$ = **10.313** in |

***PASS - Maximum allowable tension reinforcement spacing exceeds actual spacing***

**Spacing limits for reinforcement**

| | |
|---|---|
| Top bar clear spacing | $s_{top} = (b - (2 \times (c_{nom_s} + \phi_{m1_s1_z1_v}) + \phi_{m1_s1_z1_t_L1} \times N_{m1_s1_z1_t_L1} + \phi_{m1_s1_z2l_t_L1} \times N_{m1_s1_z2l_t_L1})) / ((N_{m1_s1_z1_t_L1} + N_{m1_s1_z2l_t_L1}) - 1)$ = **2.500** in |
| Min. allowable top bar clear spacing (cl.25.2.1) | $s_{top,min}$ = **1.000** in |
| Bottom bar clear spacing | $s_{bot} = (b - (2 \times (c_{nom_s} + \phi_{m1_s1_z1_v}) + \phi_{m1_s1_z1_b_L1} \times N_{m1_s1_z1_b_L1})) / (N_{m1_s1_z1_b_L1} - 1)$ = **2.250** in |
| Min. allowable bottom bar clear spacing (cl.25.2.1) | $s_{bot,min}$ = **1.000** in |

***PASS - Actual bar spacing exceeds minimum allowable***

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**Zone 2 - Positive moment. Rectangular section in flexure (Section 9.5.2)**

| | |
|---|---|
| Factored bending moment at section | $M_u = \text{abs}(M_{m1_s1_z2_max_red})$ = **108.492** kip_ft |
| Effective depth to tension reinforcement | d = **23.625** in |
| Tension reinforcement provided | 2 × No.8 bars |
| Area of tension reinforcement provided | $A_{s,prov}$ = **1.571** in$^2$ |
| Minimum area of reinforcement (cl.9.6.1.2) | $A_{s,min} = \max(3\text{ psi} \times \sqrt{(f'_c / 1\text{ psi})}, 200\text{ psi}) \times b \times d / f_y$ = **0.668** in$^2$ |

***PASS - Area of reinforcement provided is greater than minimum area of reinforcement required***

| | |
|---|---|
| Stress block depth factor (cl.22.2.2.4.3) | $\beta_1 = \min(\max(0.85 - 0.05 \times (f'_c - 4\text{ ksi}) / 1\text{ ksi}, 0.65), 0.85)$ = **0.80** |
| Depth of equivalent rectangular stress block | $a = A_{s,prov} \times f_y / (0.85 \times f'_c \times b)$ = **2.772** in |
| Depth to neutral axis | $c = a / \beta_1$ = **3.465** in |
| Net tensile strain in extreme tension fibers | $\varepsilon_t = 0.003 \times (d_o - c) / \max(c, 0.001\text{ in})$ = **0.01745** |

***Net tensile strain in tension controlled zone***

| | |
|---|---|
| Strength reduction factor (cl.21.2.1) | $\phi_f = \min(\max(0.65 + 0.25 \times (\varepsilon_t - \varepsilon_{ty}) / (0.003), 0.65), 0.9)$ = **0.90** |
| Nominal moment strength | $M_n = A_{s,prov} \times f_y \times (d - a / 2)$ = **174.665** kip_ft |
| Design moment strength | $\phi M_n = M_n \times \phi_f$ = **157.198** kip_ft |

***PASS - Required moment strength is less than design moment strength***

**Flexural cracking**

| | |
|---|---|
| Max. center to center spacing of tension reinf. | $s_{b,max} = s_{bot} + \phi_{m1_s1_z2_b_L1}$ = **3.250** in |
| Service load stress in reinforcement (cl.24.3.2) | $f_s = 2/3 \times f_y$ = **40000** psi |
| Clear cover of reinforcement | $c_c = c_{nom_b} + \phi_v$ = **1.875** in |
| Maximum allowable bot bar spacing (Table 24.3.2) | $s_{max} = \min(15\text{in} \times 40000\text{psi} / f_s - 2.5 \times c_c, 12\text{in} \times 40000\text{psi} / f_s)$ = **10.313** in |

***PASS - Maximum allowable tension reinforcement spacing exceeds actual spacing***

**Control of deflections (Section 24.2)**

| | |
|---|---|
| Concrete density factor | $K_w$ = **1.00** |
| Reinforcement yield strength factor | $K_f = 0.4 + f_y / 100000\text{ psi}$ = **1.00** |
| Minimum thickness of beam (Table 9.3.1.1) | $h_{min} = (L_{m1_s1} / 16.0) \times K_w \times K_f$ = **12.375** in |

***PASS - Thickness of beam exceeds minimum thickness***

**Spacing limits for reinforcement**

| | |
|---|---|
| Top bar clear spacing | $s_{top} = (b - (2 \times (c_{nom_s} + \phi_{m1_s1_z2_v}) + \phi_{m1_s1_z2r_t_L1} \times N_{m1_s1_z2r_t_L1})) / (N_{m1_s1_z2r_t_L1} - 1)$ = **2.500** in |
| Min. allowable top bar clear spacing (cl.25.2.1) | $s_{top,min}$ = **1.000** in |
| Bottom bar clear spacing | $s_{bot} = (b - (2 \times (c_{nom_s} + \phi_{m1_s1_z2_v}) + \phi_{m1_s1_z2_b_L1} \times N_{m1_s1_z2_b_L1} + \phi_{m1_s1_z1_b_L1} \times N_{m1_s1_z1_b_L1})) / ((N_{m1_s1_z2_b_L1} + N_{m1_s1_z1_b_L1}) - 1)$ = **2.250** in |
| Min. allowable bottom bar clear spacing (cl.25.2.1) | $s_{bot,min}$ = **1.000** in |

***PASS - Actual bar spacing exceeds minimum allowable***

**Zone 3 - Positive moment. Rectangular section in flexure (Section 9.5.2)**

| | |
|---|---|
| Factored bending moment at section | $M_u = \text{abs}(M_{m1_s1_z3_max_red})$ = **81.369** kip_ft |
| Effective depth to tension reinforcement | d = **23.625** in |
| Tension reinforcement provided | 2 × No.8 bars |
| Area of tension reinforcement provided | $A_{s,prov}$ = **1.571** in$^2$ |
| Minimum area of reinforcement (cl.9.6.1.2) | $A_{s,min} = \max(3\text{ psi} \times \sqrt{(f'_c / 1\text{ psi})}, 200\text{ psi}) \times b \times d / f_y$ = **0.668** in$^2$ |

***PASS - Area of reinforcement provided is greater than minimum area of reinforcement required***


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| | |
|---|---|
| Stress block depth factor (cl.22.2.2.4.3) | $\beta_1 = \min(\max(0.85 - 0.05 \times (f'_c - 4\ ksi) / 1\ ksi, 0.65), 0.85) =$ **0.80** |
| Depth of equivalent rectangular stress block | $a = A_{s,prov} \times f_y / (0.85 \times f'_c \times b) =$ **2.772** in |
| Depth to neutral axis | $c = a / \beta_1 =$ **3.465** in |
| Net tensile strain in extreme tension fibers | $\varepsilon_t = 0.003 \times (d_o - c) / \max(c, 0.001\ in) =$ **0.01745** |
| | ***Net tensile strain in tension controlled zone*** |
| Strength reduction factor (cl.21.2.1) | $\phi_f = \min(\max(0.65 + 0.25 \times (\varepsilon_t - \varepsilon_{ty}) / (0.003), 0.65), 0.9) =$ **0.90** |
| Nominal moment strength | $M_n = A_{s,prov} \times f_y \times (d - a / 2) =$ **174.665** kip_ft |
| Design moment strength | $\phi M_n = M_n \times \phi_f =$ **157.198** kip_ft |
| | ***PASS - Required moment strength is less than design moment strength*** |

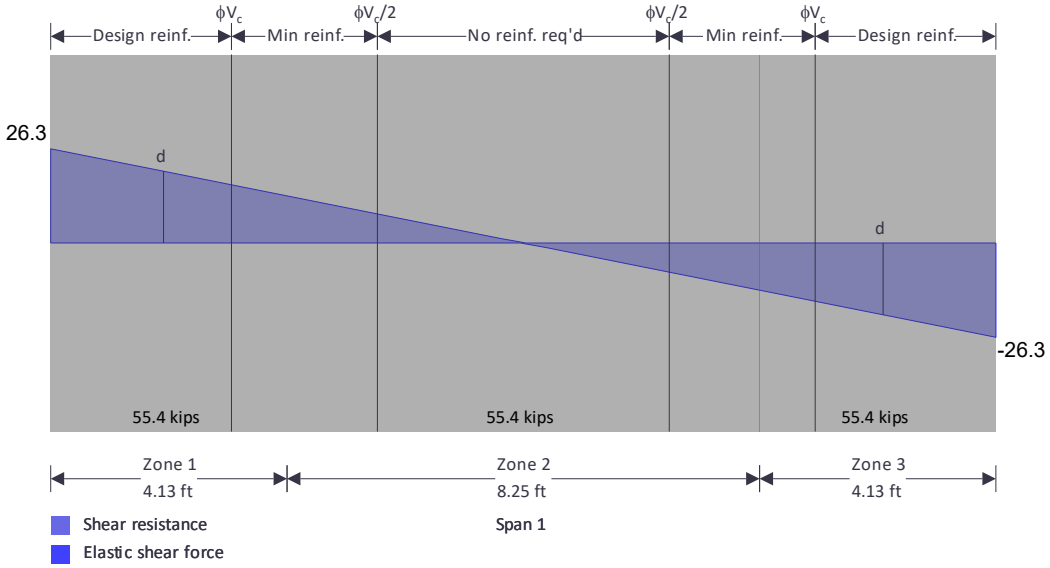
**Flexural cracking**

| | |
|---|---|
| Max. center to center spacing of tension reinf. | $s_{b,max} = s_{bot} + \phi_{m1_s1_z3_b_L1} =$ **3.250** in |
| Service load stress in reinforcement (cl.24.3.2) | $f_s = 2/3 \times f_y =$ **40000** psi |
| Clear cover of reinforcement | $c_c = c_{nom_b} + \phi_v =$ **1.875** in |
| Maximum allowable bot bar spacing (Table 24.3.2) | $s_{max} = \min(15in \times 40000psi / f_s - 2.5 \times c_c, 12in \times 40000psi / f_s) =$ **10.313** in |
| | ***PASS - Maximum allowable tension reinforcement spacing exceeds actual spacing*** |

**Spacing limits for reinforcement**

| | |
|---|---|
| Top bar clear spacing | $s_{top} = (b - (2 \times (c_{nom_s} + \phi_{m1_s1_z3_v}) + \phi_{m1_s1_z3_t_L1} \times N_{m1_s1_z3_t_L1} + \phi_{m1_s1_z2r_t_L1} \times N_{m1_s1_z2r_t_L1})) / ((N_{m1_s1_z3_t_L1} + N_{m1_s1_z2r_t_L1}) - 1) =$ **2.500** in |
| Min. allowable top bar clear spacing (cl.25.2.1) | $s_{top,min} =$ **1.000** in |
| Bottom bar clear spacing | $s_{bot} = (b - (2 \times (c_{nom_s} + \phi_{m1_s1_z3_v}) + \phi_{m1_s1_z3_b_L1} \times N_{m1_s1_z3_b_L1})) / (N_{m1_s1_z3_b_L1} - 1) =$ **2.250** in |
| Min. allowable bottom bar clear spacing (cl.25.2.1) | $s_{bot,min} =$ **1.000** in |
| | ***PASS - Actual bar spacing exceeds minimum allowable*** |

**Shear design**

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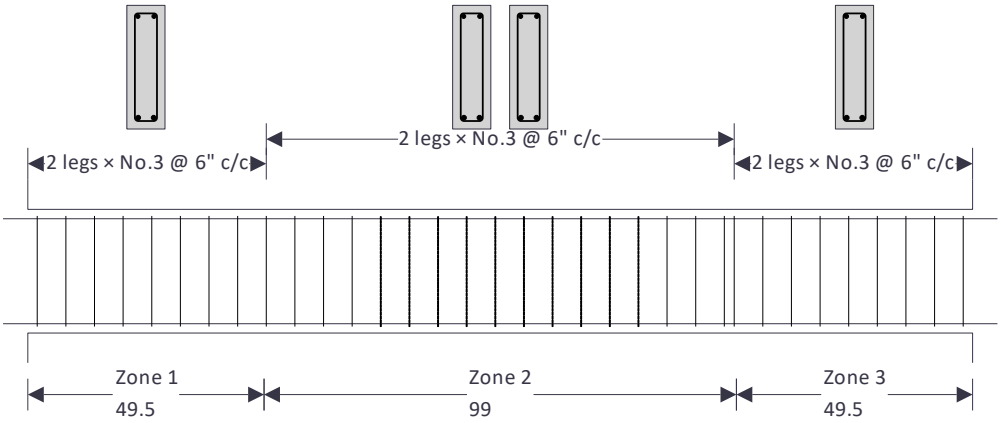


**Rectangular section in shear**

| | |
|---|---|
| Concrete weight modification factor | $\lambda$ = **1.00** |
| Location where min. reinf. is req'd ($V_u$ less $\phi V_c$) | Between 3.16 ft and 13.34 ft |
| Location where no reinf. is req'd ($V_u$ less $\phi V_c$ / 2) | Between 5.70 ft and 10.80 ft |
| Maximum reinforcement shear strength | $\phi V_{s,max} = \phi_s \times 8$ psi $\times \sqrt{(\min(f'_c, 10000\text{psi}) / 1\text{ psi})} \times b \times d$ = **80.186** kips |
| Minimum area of shear reinf. (Table 9.6.3.4) | $A_{sv,min} = \max(50\text{ psi}, 0.75\text{ psi} \times \sqrt{(f'_c / 1\text{ psi})}) \times b / \min(f_y, 60000\text{ psi})$ = **0.085** in²/ft |

**Zone 1**

| | |
|---|---|
| Effective depth of long. reinf. used for shear zone | d = **23.625** in |
| Size effect factor (cl. 22.5.5.1.3) | $\lambda_s = \min(\sqrt{(2 / (1 + (d / 1\text{ in}) / 10))}, 1.0)$ = **0.77** |
| Area of longitudinal reinforcement | $A_{st}$ = **1.571** in² |
| Ratio of longitudinal reinforcement | $\rho_w = A_{st} / (b \times d)$ = **0.008** |
| Concrete shear strength (Table 22.5.5.1) | $\phi V_c = \phi_s \times \min(8 \times \lambda \times (\rho_w)^{1/3}, 5 \times \lambda) \times \sqrt{(f'_c \times 1\text{ psi})} \times b \times d$ = **16.242** kips |
| Design shear force at 23.6in from support | $V_u$ = **20.025** kips |
| Reinf. shear strength required (eqn. 22.5.1.1) | $\phi V_s = \max(V_u - \phi V_c, 0\text{ kips})$ = **3.782** kips |
| Area of design shear reinf. req'd (eqn. 22.5.8.5.3) | $A_{sv,des} = \phi V_s / (\phi_s \times \min(f_y, 60000\text{ psi}) \times d)$ = **0.043** in²/ft |
| Area of shear reinforcement required | $A_{sv,req} = \max(A_{sv,min}, A_{sv,des})$ = **0.085** in²/ft |
| Shear reinforcement provided | 2 legs × No.3 @ 6" c/c |
| Area of shear reinforcement provided | $A_{sv,prov}$ = **0.442** in²/ft |

***PASS - Area of shear reinforcement provided exceeds area of shear reinforcement required***

| | |
|---|---|
| Maximum longitudinal spacing (Table 9.7.6.2.2) | $s_{vl,max} = d / 2$ = **11.813** in |

***PASS - longitudinal spacing of stirrups is less than the maximum allowable***

**Zone 2**

| | |
|---|---|
| Effective depth of long. reinf. used for shear zone | d = **23.625** in |
| Size effect factor (cl. 22.5.5.1.3) | $\lambda_s = \min(\sqrt{(2 / (1 + (d / 1\text{ in}) / 10))}, 1.0)$ = **0.77** |
| Area of longitudinal reinforcement | $A_{st}$ = **1.571** in² |
| Ratio of longitudinal reinforcement | $\rho_w = A_{st} / (b \times d)$ = **0.008** |
| Concrete shear strength (Table 22.5.5.1) | $\phi V_c = \phi_s \times \min(8 \times \lambda \times (\rho_w)^{1/3}, 5 \times \lambda) \times \sqrt{(f'_c \times 1\text{ psi})} \times b \times d$ = **16.242** kips |
| Design shear force within zone | $V_u$ = **13.151** kips |
| Reinf. shear strength required (eqn. 22.5.1.1) | $\phi V_s = \max(V_u - \phi V_c, 0\text{ kips})$ = **0.000** kips |

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| | |
|---|---|
| Area of design shear reinf. req'd (eqn. 22.5.8.5.3) | $A_{sv,des} = \phi V_s / (\phi_s \times \min(f_y, 60000\ psi) \times d) =$ **0.000** $in^2/ft$ |
| Area of shear reinforcement required | $A_{sv,req} = A_{sv,min} =$ **0.085** $in^2/ft$ |
| Shear reinforcement provided | 2 legs × No.3 @ 6" c/c |
| Area of shear reinforcement provided | $A_{sv,prov} =$ **0.442** $in^2/ft$ |

***PASS - Area of shear reinforcement provided exceeds area of shear reinforcement required***

| | |
|---|---|
| Maximum longitudinal spacing (Table 9.7.6.2.2) | $s_{vl,max} = \min(d / 2, 24\ in) =$ **11.813** in |

***PASS - longitudinal spacing of stirrups is less than the maximum allowable***

**Zone 3**

| | |
|---|---|
| Effective depth of long. reinf. used for shear zone | d = **23.625** in |
| Size effect factor (cl. 22.5.5.1.3) | $\lambda_s = \min(\sqrt{(2 / (1 + (d / 1\ in) / 10))}, 1.0) =$ **0.77** |
| Area of longitudinal reinforcement | $A_{st} =$ **1.571** $in^2$ |
| Ratio of longitudinal reinforcement | $\rho_w = A_{st} / (b \times d) =$ **0.008** |
| Concrete shear strength (Table 22.5.5.1) | $\phi V_c = \phi_s \times \min(8 \times \lambda \times (\rho_w)^{1/3}, 5 \times \lambda) \times \sqrt{(f'_c \times 1\ psi)} \times b \times d =$ **16.242** kips |
| Design shear force at 23.6in from support | $V_u =$ **20.025** kips |
| Reinf. shear strength required (eqn. 22.5.1.1) | $\phi V_s = \max(V_u - \phi V_c, 0\ kips) =$ **3.782** kips |
| Area of design shear reinf. req'd (eqn. 22.5.8.5.3) | $A_{sv,des} = \phi V_s / (\phi_s \times \min(f_y, 60000\ psi) \times d) =$ **0.043** $in^2/ft$ |
| Area of shear reinforcement required | $A_{sv,req} = \max(A_{sv,min}, A_{sv,des}) =$ **0.085** $in^2/ft$ |
| Shear reinforcement provided | 2 legs × No.3 @ 6" c/c |
| Area of shear reinforcement provided | $A_{sv,prov} =$ **0.442** $in^2/ft$ |

***PASS - Area of shear reinforcement provided exceeds area of shear reinforcement required***

| | |
|---|---|
| Maximum longitudinal spacing (Table 9.7.6.2.2) | $s_{vl,max} = d / 2 =$ **11.813** in |

***PASS - longitudinal spacing of stirrups is less than the maximum allowable***

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- Steel Column Design (ST2):

$$P_{DL} = \frac{150lb}{ft3} \times \frac{9"}{12} \times 200\ sf(9"\ conc.slab\ at\ 2nd\ floor) + 35psf\ \times 200\ sf = 29500\ lbs$$
$$\approx 30\ kips$$

$$P_{LL} = 40\ psf \times 200\ sf = 8000\ lbs = 8\ kips$$

$$P_u = 1.2P_{DL} + 1.6P_{LL} = 1.2 \times 30 + 1.6 \times 8 = 48.8\ kips \approx 50\ kips$$

H=14.5' (Height of Column)

Use HSS 6x4x3/8.

Please see next page for calculation.

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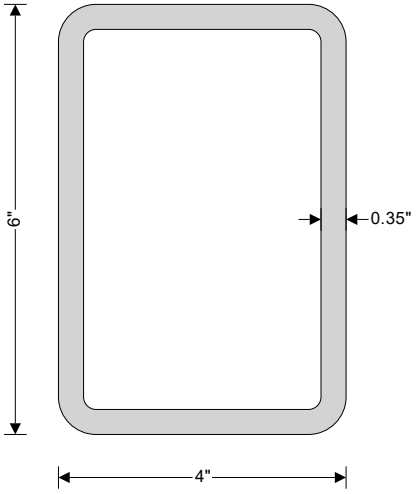
## STEEL COLUMN DESIGN

**In accordance with AISC360-16 and the LRFD method**

Tedds calculation version 1.0.10




### Column and loading details

**Column details**

| | |
|---|---|
| Column section | **HSS 6x4x3/8** |

**Design loading**

| | |
|---|---|
| Required axial strength | $P_r$ = **50** kips (Compression) |
| Moment about x axis at end 1 | $M_{x1}$ = **0.0** kips_ft |
| Moment about x axis at end 2 | $M_{x2}$ = **0.0** kips_ft |
| Maximum moment about x axis | $M_x$ = max(abs($M_{x1}$), abs($M_{x2}$)) = **0.0** kips_ft |
| Moment about y axis at end 1 | $M_{y1}$ = **0.0** kips_ft |
| Moment about y axis at end 2 | $M_{y2}$ = **0.0** kips_ft |
| Maximum moment about y axis | $M_y$ = max(abs($M_{y1}$), abs($M_{y2}$)) = **0.0** kips_ft |
| Maximum shear force parallel to y axis | $V_{ry}$ = **0.0** kips |
| Maximum shear force parallel to x axis | $V_{rx}$ = **0.0** kips |

**Material details**

| | |
|---|---|
| Steel grade | **A500 Gr. B** |
| Yield strength | $F_y$ = **46** ksi |
| Ultimate strength | $F_u$ = **58** ksi |
| Modulus of elasticity | E = **29000** ksi |
| Shear modulus of elasticity | G = **11200** ksi |

**Unbraced lengths**

| | |
|---|---|
| For buckling about x axis | $L_x$ = **174** in |
| For buckling about y axis | $L_y$ = **174** in |
| For torsional buckling | $L_z$ = **174** in |

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**Effective length factors**

For buckling about x axis $K_x$ = **1.00**

For buckling about y axis $K_y$ = **1.00**

For torsional buckling $K_z$ = **1.00**

**Effective unbraced lengths**

For buckling about x axis $L_{cx} = L_x \times K_x$ = **174** in

For buckling about y axis $L_{cy} = L_y \times K_y$ = **174** in

For torsional buckling $L_{cz} = L_z \times K_z$ = **174** in

## Section classification

**Section classification for local buckling (cl. B4)**

Critical flange width $b = b_f - 3 \times t$ = **2.953** in

Critical web width $h = d - 3 \times t$ = **4.953** in

Width to thickness ratio of flange (compression) $\lambda_{f_c} = b / t$ = **8.461**

Width to thickness ratio of web (compression) $\lambda_{w_c} = h / t$ = **14.192**

Width to thickness ratio of flange (major flexure) $\lambda_{f_fx} = b / t$ = **8.461**

Width to thickness ratio of web (major flexure) $\lambda_{w_fx} = h / t$ = **14.192**

Width to thickness ratio of flange (minor flexure) $\lambda_{f_fy} = h / t$ = **14.192**

Width to thickness ratio of web (minor flexure) $\lambda_{w_fy} = b / t$ = **8.461**

**Compression**

Limit for nonslender section $\lambda_{r_c} = 1.40 \times \sqrt{(E / F_y)}$ = **35.152**

***The section is nonslender in compression***

## Slenderness

**Member slenderness**

Slenderness ratio about x axis $SR_x = L_{cx} / r_x$ = **81.3**

Slenderness ratio about y axis $SR_y = L_{cy} / r_y$ = **112.3**

## Compressive strength

**Flexural buckling about x axis (cl. E3)**

Elastic critical buckling stress $F_{ex} = \pi^2 \times E / (SR_x)^2$ = **43.3** ksi

Flexural buckling stress $F_{crx} = (0.658^{F_y / F_{ex}}) \times F_y$ = **29.5** ksi

Nominal compressive strength for flexural buckling $P_{nx} = F_{crx} \times A$ = **182.2** kips

**Flexural buckling about y axis (cl. E3)**

Elastic critical buckling stress $F_{ey} = \pi^2 \times E / (SR_y)^2$ = **22.7** ksi

Flexural buckling stress $F_{cry} = (0.658^{F_y / F_{ey}}) \times F_y$ = **19.7** ksi

Nominal compressive strength for flexural buckling $P_{ny} = F_{cry} \times A$ = **121.8** kips

**Design compressive strength (cl.E1)**

Resistance factor for compression $\phi_c$ = **0.90**

Design compressive strength $P_c = \phi_c \times \min(P_{nx}, P_{ny})$ = **109.6** kips

***PASS - The design compressive strength exceeds the required compressive strength***


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- Concrete Footing Design Under Column ST2 (F-50):

From steel column design ST2, we have:

$P_{DL} = 30\ kips$

$P_{LL} = 8\ kips$

$q_{LLallowable\ capacity\ of\ soil} = 2.5\ ksf$

Use 5'-0"x5'-0"x18" with 8#6 Bottom E.W.

Please see next page for calculation.

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## FOOTING ANALYSIS

**In accordance with ACI318-19**

Tedds calculation version 3.3.06

**Summary results**

Overall design status PASS

Overall design utilisation 0.770

| Description | Unit | Applied | Resisting | FoS | Result |
|---|---|---|---|---|---|
| Uplift verification | kips | 48.1 | | | Pass |
| **Description** | **Unit** | **Applied** | **Resisting** | **Utilization** | **Result** |
| Soil bearing | ksf | 1.924 | 2.5 | 0.770 | Pass |
| **Description** | **Unit** | **Required** | **Provided** | **Utilization** | **Result** |
| Moment, positive, x-direction | kip_ft | 24.7 | 223.5 | 0.111 | Pass |
| Moment, positive, y-direction | kip_ft | 26.5 | 223.5 | 0.119 | Pass |
| Shear, one-way, x-direction | kips | 10.7 | 52.9 | 0.202 | Pass |
| Shear, one-way, y-direction | kips | 11.5 | 51.1 | 0.225 | Pass |
| Shear, two-way, Col 1 | psi | 37.911 | 189.737 | 0.200 | Pass |
| Min.area of reinf, bot., x-direction | $in^2$ | 1.944 | 3.520 | | Pass |
| Max.reinf.spacing, bot, x-direction | in | 18.0 | 7.6 | | Pass |
| Min.area of reinf, bot., y-direction | $in^2$ | 1.944 | 3.520 | | Pass |
| Max.reinf.spacing, bot, y-direction | in | 18.0 | 7.6 | | Pass |

**Pad footing details**

Length of footing $L_x$ = **5** ft

Width of footing $L_y$ = **5** ft

Footing area $A = L_x \times L_y$ = **25** $ft^2$

Depth of footing h = **18** in

Depth of soil over footing $h_{soil}$ = **18** in

Density of concrete $\gamma_{conc}$ = **150.0** $lb/ft^3$

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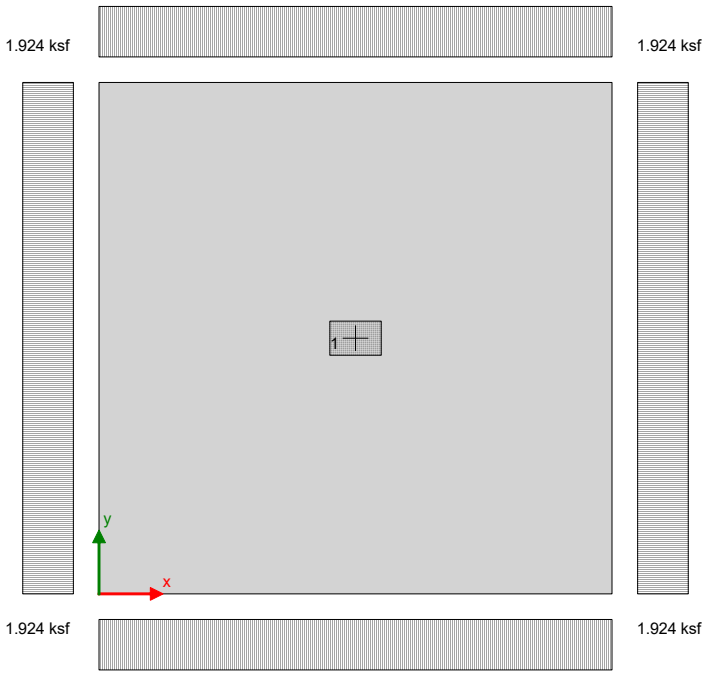


**Column no.1 details**

| | |
|---|---|
| Length of column | $l_{x1}$ = **6.00** in |
| Width of column | $l_{y1}$ = **4.00** in |
| position in x-axis | $x_1$ = **30.00** in |
| position in y-axis | $y_1$ = **30.00** in |

**Soil properties**

| | |
|---|---|
| Gross allowable bearing pressure | $q_{allow_Gross}$ = **2.5** ksf |
| Density of soil | $\gamma_{soil}$ = **120.0** lb/ft$^3$ |
| Angle of internal friction | $\phi_b$ = **30.0** deg |
| Design base friction angle | $\delta_{bb}$ = **30.0** deg |
| Coefficient of base friction | tan($\delta_{bb}$) = **0.577** |

**Footing loads**

| | |
|---|---|
| Self weight | $F_{swt} = h \times \gamma_{conc}$ = **225** psf |
| Soil weight | $F_{soil} = h_{soil} \times \gamma_{soil}$ = **180** psf |

**Column no.1 loads**

| | |
|---|---|
| Dead load in z | $F_{Dz1}$ = **30.0** kips |
| Live load in z | $F_{Lz1}$ = **8.0** kips |

**Footing analysis for soil and stability**

**Load combinations per ASCE 7-16**

1.0D (0.642)

1.0D + 1.0L (0.770)

**Combination 2 results: 1.0D + 1.0L**

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**Forces on footing**

Force in z-axis

$F_{dz} = \gamma_D \times A \times (F_{swt} + F_{soil}) + \gamma_D \times (F_{Dz1} - I_{x1} \times I_{y1} \times h_{soil} \times \gamma_{soil}) + \gamma_L \times F_{Lz1} =$ **48.1** kips

**Moments on footing**

Moment in x-axis, about x is 0

$M_{dx} = \gamma_D \times (A \times (F_{swt} + F_{soil}) \times L_x / 2) + \gamma_D \times (((F_{Dz1} - I_{x1} \times I_{y1} \times h_{soil} \times \gamma_{soil})) \times x_1) + \gamma_L \times (F_{Lz1} \times x_1) =$ **120.2** kip_ft

Moment in y-axis, about y is 0

$M_{dy} = \gamma_D \times (A \times (F_{swt} + F_{soil}) \times L_y / 2) + \gamma_D \times (((F_{Dz1} - I_{x1} \times I_{y1} \times h_{soil} \times \gamma_{soil})) \times y_1) + \gamma_L \times (F_{Lz1} \times y_1) =$ **120.2** kip_ft

**Uplift verification**

Vertical force

$F_{dz} =$ **48.095** kips

***PASS - Footing is not subject to uplift***

**Bearing resistance**

**Eccentricity of base reaction**

Eccentricity of base reaction in x-axis

$e_{dx} = M_{dx} / F_{dz} - L_x / 2 =$ **0** in

Eccentricity of base reaction in y-axis

$e_{dy} = M_{dy} / F_{dz} - L_y / 2 =$ **0** in

**Pad base pressures**

$q_1 = F_{dz} \times (1 - 6 \times e_{dx} / L_x - 6 \times e_{dy} / L_y) / (L_x \times L_y) =$ **1.924** ksf

$q_2 = F_{dz} \times (1 - 6 \times e_{dx} / L_x + 6 \times e_{dy} / L_y) / (L_x \times L_y) =$ **1.924** ksf

$q_3 = F_{dz} \times (1 + 6 \times e_{dx} / L_x - 6 \times e_{dy} / L_y) / (L_x \times L_y) =$ **1.924** ksf

$q_4 = F_{dz} \times (1 + 6 \times e_{dx} / L_x + 6 \times e_{dy} / L_y) / (L_x \times L_y) =$ **1.924** ksf

Minimum base pressure

$q_{min} = \min(q_1,q_2,q_3,q_4) =$ **1.924** ksf

Maximum base pressure

$q_{max} = \max(q_1,q_2,q_3,q_4) =$ **1.924** ksf

**Allowable bearing capacity**

Allowable bearing capacity

$q_{allow} = q_{allow_Gross} =$ **2.5** ksf

$q_{max} / q_{allow} =$ **0.770**

***PASS - Allowable bearing capacity exceeds design base pressure***

## FOOTING DESIGN

**In accordance with ACI318-19**

Tedds calculation version 3.3.06

**Material details**

| | |
|---|---|
| Compressive strength of concrete | $f'_c =$ **4000** psi |
| Yield strength of reinforcement | $f_y =$ **60000** psi |
| Compression-controlled strain limit (21.2.2) | $\varepsilon_{ty} =$ **0.00200** |
| Cover to top of footing | $c_{nom_t} =$ **3** in |
| Cover to side of footing | $c_{nom_s} =$ **3** in |
| Cover to bottom of footing | $c_{nom_b} =$ **3** in |
| Concrete type | Normal weight |
| Concrete modification factor | $\lambda =$ **1.00** |
| Column type | Concrete |

**Analysis and design of concrete footing**

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**Load combinations per ASCE 7-16**

1.4D (0.193)

1.2D + 1.6L + 0.5Lr (0.225)

**Combination 2 results: 1.2D + 1.6L + 0.5Lr**

**Forces on footing**

Ultimate force in z-axis

$F_{uz} = \gamma_D \times A \times (F_{swt} + F_{soil}) + \gamma_D \times (F_{Dz1} - l_{x1} \times l_{y1} \times h_{soil} \times \gamma_{soil}) + \gamma_L \times F_{Lz1}$ = **60.9** kips

**Moments on footing**

Ultimate moment in x-axis, about x is 0

$M_{ux} = \gamma_D \times (A \times (F_{swt} + F_{soil}) \times L_x / 2) + \gamma_D \times (((F_{Dz1} - l_{x1} \times l_{y1} \times h_{soil} \times \gamma_{soil})) \times x_1) + \gamma_L \times (F_{Lz1} \times x_1)$ = **152.3** kip_ft

Ultimate moment in y-axis, about y is 0

$M_{uy} = \gamma_D \times (A \times (F_{swt} + F_{soil}) \times L_y / 2) + \gamma_D \times (((F_{Dz1} - l_{x1} \times l_{y1} \times h_{soil} \times \gamma_{soil})) \times y_1) + \gamma_L \times (F_{Lz1} \times y_1)$ = **152.3** kip_ft

**Eccentricity of base reaction**

Eccentricity of base reaction in x-axis

$e_{ux} = M_{ux} / F_{uz} - L_x / 2$ = **0** in

Eccentricity of base reaction in y-axis

$e_{uy} = M_{uy} / F_{uz} - L_y / 2$ = **0** in

**Pad base pressures**

$q_{u1} = F_{uz} \times (1 - 6 \times e_{ux} / L_x - 6 \times e_{uy} / L_y) / (L_x \times L_y)$ = **2.437** ksf

$q_{u2} = F_{uz} \times (1 - 6 \times e_{ux} / L_x + 6 \times e_{uy} / L_y) / (L_x \times L_y)$ = **2.437** ksf

$q_{u3} = F_{uz} \times (1 + 6 \times e_{ux} / L_x - 6 \times e_{uy} / L_y) / (L_x \times L_y)$ = **2.437** ksf

$q_{u4} = F_{uz} \times (1 + 6 \times e_{ux} / L_x + 6 \times e_{uy} / L_y) / (L_x \times L_y)$ = **2.437** ksf

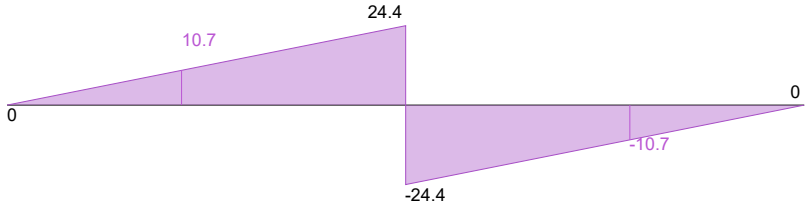
Minimum ultimate base pressure

$q_{umin} = \min(q_{u1},q_{u2},q_{u3},q_{u4})$ = **2.437** ksf

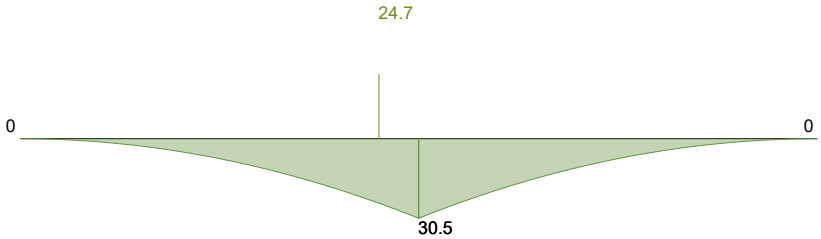
Maximum ultimate base pressure

$q_{umax} = \max(q_{u1},q_{u2},q_{u3},q_{u4})$ = **2.437** ksf

**Shear diagram, x axis (kips)**




**Moment diagram, x axis (kip_ft)**




**Moment design, x direction, positive moment**

Ultimate bending moment

$M_{u.x.max}$ = **24.701** kip_ft

Tension reinforcement provided

8 No.6 bottom bars (7.6 in c/c)

Area of tension reinforcement provided

$A_{sx.bot.prov}$ = **3.52** $in^2$

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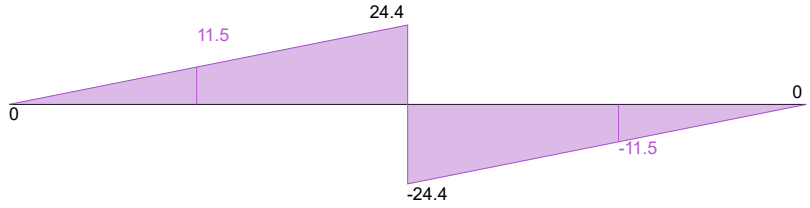
| | |
|---|---|
| Minimum area of reinforcement (8.6.1.1) | $A_{s.min} = 0.0018 \times L_y \times h =$ **1.944** in$^2$ |
| | ***PASS - Area of reinforcement provided exceeds minimum*** |
| Maximum spacing of reinforcement (8.7.2.2) | $s_{max} = \min(2 \times h, 18\text{ in}) =$ **18** in |
| | ***PASS - Maximum permissible reinforcement spacing exceeds actual spacing*** |
| Depth to tension reinforcement | $d = h - c_{nom_b} - \phi_{y.bot} - \phi_{x.bot} / 2 =$ **13.875** in |
| Depth of compression block | $a = A_{sx.bot.prov} \times f_y / (0.85 \times f'_c \times L_y) =$ **1.035** in |
| Neutral axis factor | $\beta_1 =$ **0.85** |
| Depth to neutral axis | $c = a / \beta_1 =$ **1.218** in |
| Strain in tensile reinforcement | $\varepsilon_t = 0.003 \times d / c - 0.003 =$ **0.03118** |
| Minimum tensile strain(8.3.3.1) | $\varepsilon_{min} = \varepsilon_{ty} + 0.003 =$ **0.00500** |
| | ***PASS - Tensile strain exceeds minimum required*** |
| Nominal moment capacity | $M_n = A_{sx.bot.prov} \times f_y \times (d - a / 2) =$ **235.089** kip_ft |
| Flexural strength reduction factor | $\phi_f = \min(\max(0.65 + 0.25 \times (\varepsilon_t - \varepsilon_{ty}) / (0.003), 0.65), 0.9) =$ **0.900** |
| Design moment capacity | $\phi M_n = \phi_f \times M_n =$ **211.58** kip_ft |
| | $M_{u.x.max} / \phi M_n =$ **0.117** |
| | ***PASS - Design moment capacity exceeds ultimate moment load*** |

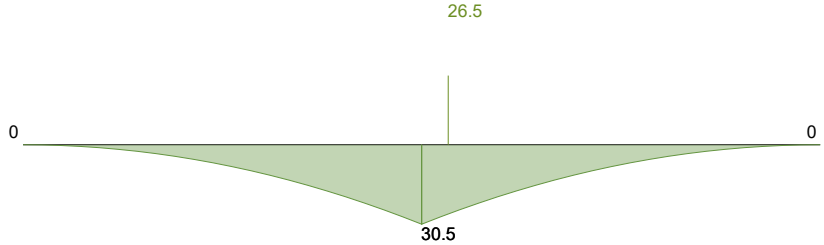
**One-way shear design, x direction**

| | |
|---|---|
| Ultimate shear force | $V_{u.x} =$ **10.674** kips |
| Depth to reinforcement | $d_v = h - c_{nom_b} - \phi_{x.bot} / 2 =$ **14.625** in |
| Size effect factor (22.5.5.1.3) | $\lambda_s =$ **1** |
| Ratio of longitudinal reinforcement | $\rho_w = A_{sx.bot.prov} / (L_y \times d_v) =$ **0.00401** |
| Shear strength reduction factor | $\phi_v =$ **0.75** |
| Nominal shear capacity (Eq. 22.5.5.1) | $V_n = \min(8 \times \lambda_s \times \lambda \times (\rho_w)^{1/3} \times \sqrt{(f'_c \times 1\text{ psi})} \times L_y \times d_v, 5 \times \lambda \times \sqrt{(f'_c \times 1\text{ psi})} \times L_y \times d_v) =$ **70.545** kips |
| Design shear capacity | $\phi V_n = \phi_v \times V_n =$ **52.909** kips |
| | $V_{u.x} / \phi V_n =$ **0.202** |
| | ***PASS - Design shear capacity exceeds ultimate shear load*** |

**Shear diagram, y axis (kips)**




**Moment diagram, y axis (kip_ft)**

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**Moment design, y direction, positive moment**

| | |
|---|---|
| Ultimate bending moment | $M_{u.y.max}$ = **26.549** kip_ft |
| Tension reinforcement provided | 8 No.6 bottom bars (7.6 in c/c) |
| Area of tension reinforcement provided | $A_{sy.bot.prov}$ = **3.52** in$^2$ |
| Minimum area of reinforcement (8.6.1.1) | $A_{s.min} = 0.0018 \times L_x \times h$ = **1.944** in$^2$ |
| | ***PASS - Area of reinforcement provided exceeds minimum*** |
| Maximum spacing of reinforcement (8.7.2.2) | $s_{max} = \min(2 \times h, 18\text{ in})$ = **18** in |
| | ***PASS - Maximum permissible reinforcement spacing exceeds actual spacing*** |
| Depth to tension reinforcement | $d = h - c_{nom_b} - \phi_{y.bot} / 2$ = **14.625** in |
| Depth of compression block | $a = A_{sy.bot.prov} \times f_y / (0.85 \times f'_c \times L_x)$ = **1.035** in |
| Neutral axis factor | $\beta_1$ = **0.85** |
| Depth to neutral axis | $c = a / \beta_1$ = **1.218** in |
| Strain in tensile reinforcement | $\varepsilon_t = 0.003 \times d / c - 0.003$ = **0.03302** |
| Minimum tensile strain(8.3.3.1) | $\varepsilon_{min} = \varepsilon_{ty} + 0.003$ = **0.00500** |
| | ***PASS - Tensile strain exceeds minimum required*** |
| Nominal moment capacity | $M_n = A_{sy.bot.prov} \times f_y \times (d - a / 2)$ = **248.289** kip_ft |
| Flexural strength reduction factor | $\phi_f = \min(\max(0.65 + 0.25 \times (\varepsilon_t - \varepsilon_{ty}) / (0.003), 0.65), 0.9)$ = **0.900** |
| Design moment capacity | $\phi M_n = \phi_f \times M_n$ = **223.46** kip_ft |
| | $M_{u.y.max} / \phi M_n$ = **0.119** |
| | ***PASS - Design moment capacity exceeds ultimate moment load*** |

**One-way shear design, y direction**

| | |
|---|---|
| Ultimate shear force | $V_{u.y}$ = **11.48** kips |
| Depth to reinforcement | $d_v = h - c_{nom_b} - \phi_{x.bot} - \phi_{y.bot} / 2$ = **13.875** in |
| Size effect factor (22.5.5.1.3) | $\lambda_s$ = **1** |
| Ratio of longitudinal reinforcement | $\rho_w = A_{sy.bot.prov} / (L_x \times d_v)$ = **0.00423** |
| Shear strength reduction factor | $\phi_v$ = **0.75** |
| Nominal shear capacity (Eq. 22.5.5.1) | $V_n = \min(8 \times \lambda_s \times \lambda \times (\rho_w)^{1/3} \times \sqrt{(f'_c \times 1\text{ psi})} \times L_x \times d_v, 5 \times \lambda \times \sqrt{(f'_c \times 1\text{ psi})} \times L_x \times d_v)$ = **68.112** kips |
| Design shear capacity | $\phi V_n = \phi_v \times V_n$ = **51.084** kips |
| | $V_{u.y} / \phi V_n$ = **0.225** |
| | ***PASS - Design shear capacity exceeds ultimate shear load*** |

**Two-way shear design at column 1**

| | |
|---|---|
| Depth to reinforcement | $d_{v2}$ = **14.25** in |
| Shear perimeter length (22.6.4) | $l_{xp}$ = **20.250** in |
| Shear perimeter width (22.6.4) | $l_{yp}$ = **18.250** in |
| Shear perimeter (22.6.4) | $b_o = 2 \times (l_{x1} + d_{v2}) + 2 \times (l_{y1} + d_{v2})$ = **77.000** in |
| Shear area | $A_p = l_{x,perim} \times l_{y,perim}$ = **369.563** in$^2$ |
| Surcharge loaded area | $A_{sur} = A_p - l_{x1} \times l_{y1}$ = **345.563** in$^2$ |
| Ultimate bearing pressure at center of shear area | $q_{up.avg}$ = **2.437** ksf |
| Ultimate shear load | $F_{up} = \gamma_D \times (F_{Dz1} - l_{x1} \times l_{y1} \times h_{soil} \times \gamma_{soil}) + \gamma_L \times F_{Lz1} + \gamma_D \times A_p \times F_{swt} + \gamma_D \times A_{sur} \times F_{soil} - q_{up.avg} \times A_p$ = **43.722** kips |
| Ultimate shear stress from vertical load | $v_{ug} = \max(F_{up} / (b_o \times d_{v2}), 0\text{ psi})$ = **39.847** psi |

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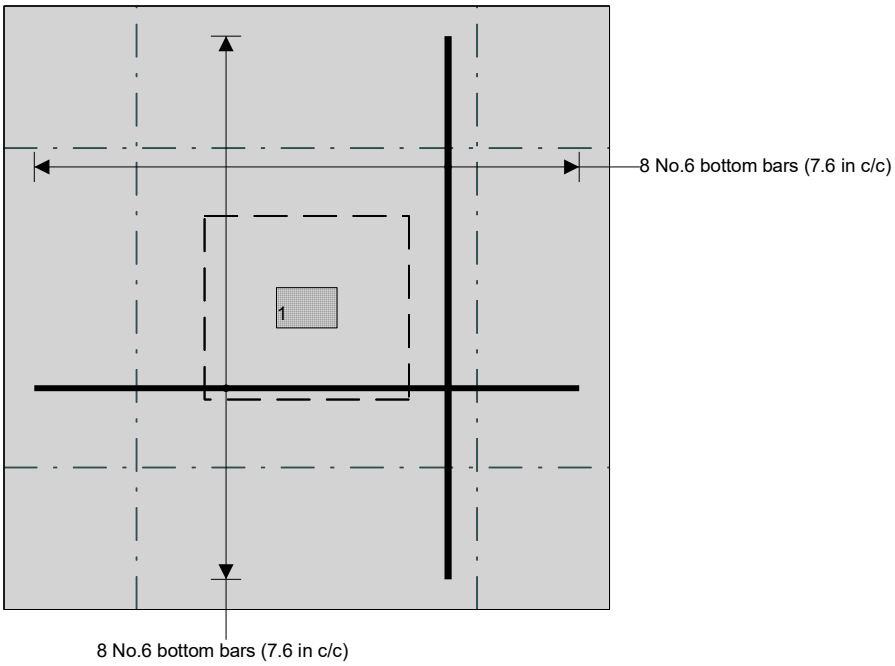
| | |
|---|---|
| Column geometry factor (Table 22.6.5.2) | $\beta = l_{x1} / l_{y1} =$ **1.50** |
| Column location factor (22.6.5.3) | $\alpha_s =$**40** |
| Size effect factor (22.5.5.1.3) | $\lambda_s =$ **1** |
| Concrete shear strength (22.6.5.2) | $v_{cpa} = (2 + 4 / \beta) \times \lambda_s \times \lambda \times \sqrt{(f'_c \times 1\ psi)} =$ **295.146** psi |
| | $v_{cpb} = (\alpha_s \times d_{v2} / b_o + 2) \times \lambda_s \times \lambda \times \sqrt{(f'_c \times 1\ psi)} =$ **594.672** psi |
| | $v_{cpc} = 4 \times \lambda_s \times \lambda \times \sqrt{(f'_c \times 1\ psi)} =$ **252.982** psi |
| | $v_{cp} = \min(v_{cpa}, v_{cpb}, v_{cpc}) =$ **252.982** psi |
| Shear strength reduction factor | $\phi_v =$ **0.75** |
| Nominal shear stress capacity (Eq. 22.6.1.2) | $v_n = v_{cp} =$ **252.982** psi |
| Design shear stress capacity (8.5.1.1(d)) | $\phi v_n = \phi_v \times v_n =$ **189.737** psi |
| | $v_{ug} / \phi v_n =$ **0.210** |

***PASS - Design shear stress capacity exceeds ultimate shear stress load***

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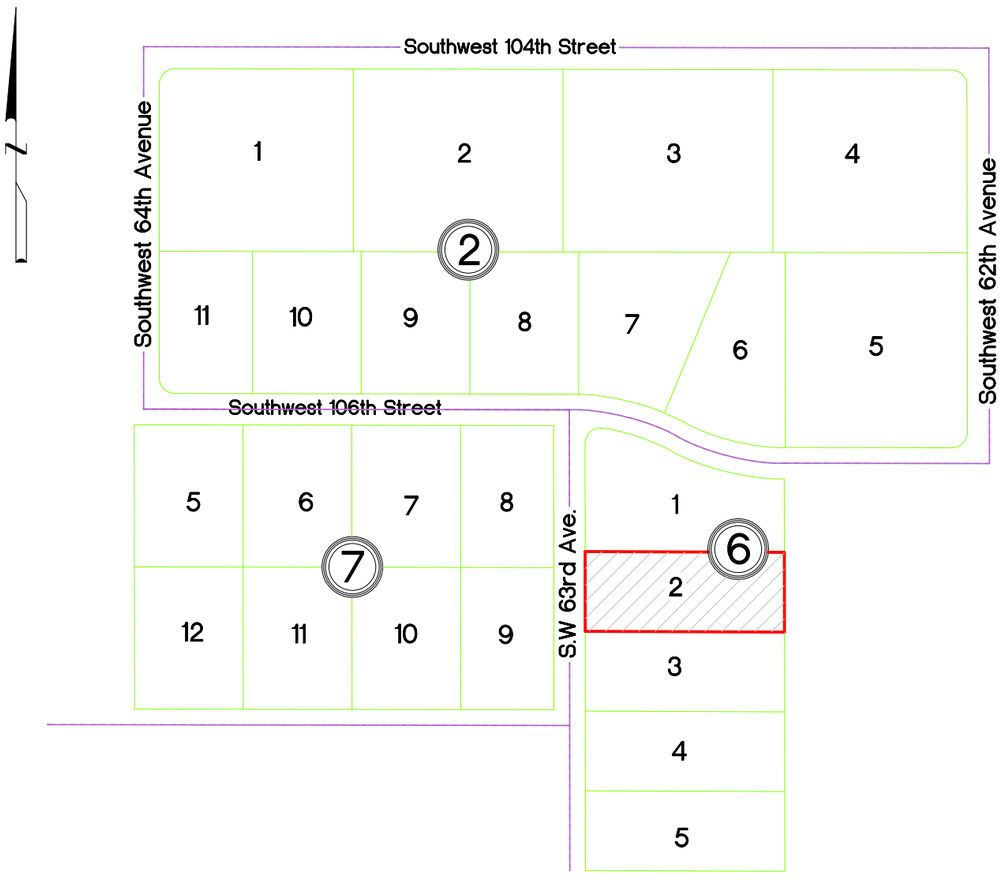
Structural Calcalculation.pdf

AFA & Company, Inc. Land Surveyors

Prepared By:
**AFA & COMPANY, INC.**
**PROFESSIONAL LAND SURVEYORS AND MAPPERS**
*FLORIDA CERTIFICATE OF AUTHORIZATION No. LB 7498*
*13050 SW 133RD COURT,*
*MIAMI, FLORIDA 33186*
*E-MAIL: AFACO@BELLSOUTH.NET*
*PH: 305-234-0588*
*FX: 206-495-0778*

## Location Sketch N.T.S.

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Survey.pdf
Examiner Date Time Stamp Trade Stamp Name
VALDIVIESO, JOSE 6/24/2025 10:44:30 AM HRS Approved

# Property Information

***CERTIFIED ONLY TO:***
GS JPD 10635 LLC, a Florida limited liability company
Old Republic National Title Insurance Company
Jeffrey E. Levey, P.A.

***PROPERTY ADDRESS:***
10635 Southwest 63rd Avenue
Pinecrest, Florida 33156

***LEGAL DESCRIPTION:***
Lot 2, Block 6, of: " HELMS COUNTRY ESTATES ADDITION ", according to the Plat Thereof as Recorded in Plat Book 51, Page 64, of the Public Records of Miami-Dade County, Florida.

***ELEVATION INFORMATION***
***National Flood Insurance Program***
***FEMA Elev. Reference to NGVD 1929***

| | |
|---|---|
| Comm Panel | 120425 |
| Panel # | 0466 |
| Firm Zone: | "X" |
| Date of Firm: | 09-11-2009 |
| Base Flood Elev. | N/A |
| F.Floor Elev. | 12.20' |
| Garage Elev. | N/A |
| Suffix: | "L" |

Elev. Reference to NGVD 1929

| | |
|---|---|
| JOB # | 24-640 |
| DATE | 06-26-2024 |
| PB | 51-64 |

Surveyors Notes:

*#1 Land Shown Hereon were not abstracted for Easement and /or Right of Way Records. The Easement / Right of Way Show on Survey are as per plat of record unless otherewise noted.*
*#2 Benchmark: Miami-Dade County Public Works Dep. BM Name T-615, BM Locator 5011, Elevation 10.90'*
*#3 Bearings as Shown hereon are Based upon Southwest 106th Street, N76°13'25"W (Chord)*
*#4 Please See Abbreviations*
*#5 Drawn By: YASH*
*#6 Date: 06-26-2024*
*#7 Completed Survey Field Date: 06-20-2024*
*#8 Disc No 2024, Station Surveying Scion*
*#9 Last Revised:*
*#10 Zoned Building setback line not determined*

Surveyor's Notes:

*#11 The herein captioned Property was surveyed and described based on the Legal Description Provided by Client.*
*#12 This Certification is Only for the lands as Described, it is not a certification of Title, Zoning, Easements, or Freedom of encumbrances. ABSTRACT NOT REVIEWED.*
*#13 There may be additional Restrictions not Shown on this survey that may be found in the Public Records of Said County Examination of ABSTRACT OF TITLE will have to be made to determine recorded instruments, if any affecting this property.*
*#14 Accuracy:*
*The expected use of land, as classified in the Standards of Practice (5J-17.052), is residential. The minimum relative distance accuracy for this type of boundary survey is 1.0 foot in 10,000.00' feet. the accuracy obtained by measurement and calculation of a closed geometric figure was found to exceed this requirement.*
*#15 Foundation and / or footing that may cross beyond the boundary lines of the parcel herein described are not shown hereon.*
*#16 Not valid without the signature and original seal of a Florida Licensed Surveyor and Mapper. additions or deletions to survey maps or reports by other than the signing party or parties.*
*#17 Contact the appropriate authority prior to any design work on the herein described parcel for building and zoning information.*
*#18 Underground Utilities are not depicted hereon, contact the appropriate authority prior to any design work or construction on the property herein described. Surveyor shall be notified as to any deviation from utilities shown hereon.*
*#19 Ownership subject to Opinion of Title.*

AFA & Company, Inc. Land Surveyors

Professional
Surveyors & Mappers LB 7498
13050 S.W. 133rd Court
Miami Florida, 33186
E-mail: afaco@bellsouth.net
Ph: (305) 234-0588
Fax: (206) 495-0778

This certifies that the survey of the property described hereon was made under my supervision & that the survey meets the Standards of Practice set forth by the Florida Board of Professional Land Surveyors & Mappers in Chapter 5J-17.052 of Florida Administrative Code, pursuant to Section 472.027, Florida Statutes.
& That the Sketch hereon is a true and accurate representation thereof to the best of my knowledge and Belief, subject to notes and notations shown hereon.

Armando Alvarez
Digitally signed by Armando Alvarez
DN: c=US, o=AFA and Company Inc, dnQualifier=A01410C000001888CB0346D001E5FA3, cn=Armando Alvarez
Date: 2024.10.30 11:21:12 -04'00'

*Armando F. Alvarez*
*Professional Surveyor & Mapper #5526*
*State of Florida*
***Not Valid unless Signed & Stamped with Embossed Seal***

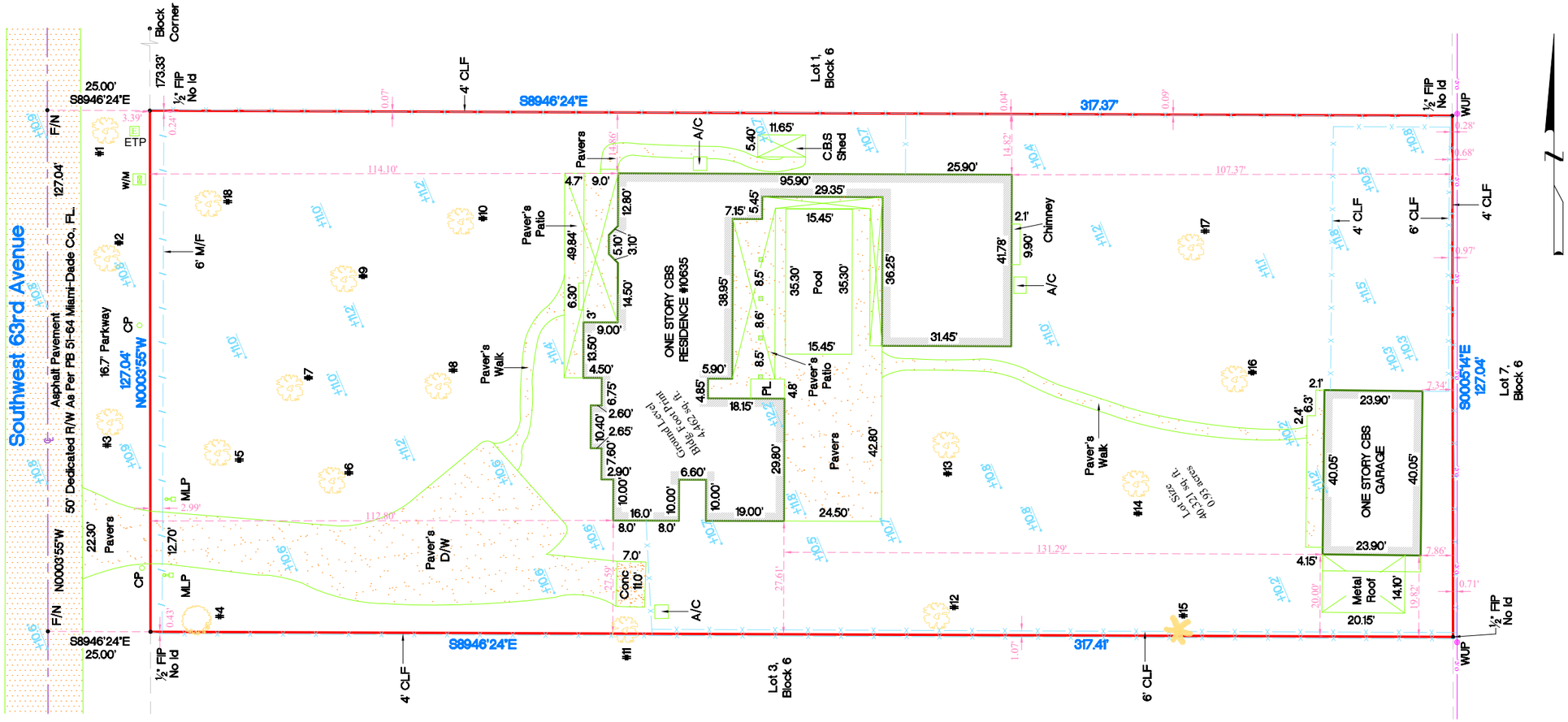
AFA & Company, Inc.
Land Surveyors

Prepared By:
**AFA & COMPANY, INC.**
**PROFESSIONAL LAND SURVEYORS AND MAPPERS**
*FLORIDA CERTIFICATE OF AUTHORIZATION No. LB 7498*
*13050 SW 133RD COURT, MIAMI, FLORIDA 33186*
*E-MAIL: AFACO@BELLSOUTH.NET*
*PH: 305-234-0588, FX: 206-495-0778*

# Boundary Survey

## Graphic Scale 1" = 30'






## Abbreviations of Legend

| | |
|---|---|
| AVE. | =AVENUE |
| ASPH | =ASPHALT |
| A/W | =ANCHORD WIRE |
| A/C | =AIR CONDITIONER |
| BLDG | =BUILDING |
| B. COR. | =BLOCK CORNER |
| CAL | = CALCULATED |
| C.B. | =CATCH BASIN |
| CLF | =CHAIN LINK FENCE |
| CONC. | =CONCRETE |
| COL. | =COLUMN |
| C.U.P. | =CONCRETE UTILITY POLE |
| C.L.P. | =CONCRETE LIGHT POLE |
| CBS | =CONCRETE BLOCK STRUCTURE |
| C.M.E. | =CANAL MAINTENANCE EASEMENT |
| D | =DELTA |
| D/W | =DRIVEWAY |
| D.M.E. | =DRAINAGE & MAINTENANCE EASEMENT |
| ENC. | =ENCROACHMENT |
| E.T.P. | =ELECTRIC TRANSFORMER PAD |
| F.P.L. | =FLORIDA POWER AND LIGHT |
| F.H. | =FIRE HYDRANT |
| F.I.P. | =FOUND IRON PIPE |
| F.F. | =FINISH FLOOR |
| DH/F | =FOUND DRILL HOLE |
| F.R. | =FOUND REBAR |
| F/D | =FOUND DISC |
| F/N | =FOUND NAIL |
| I/F | =IRON FENCE |
| L | =LENGHT |
| L.M.E. | =LAKE MAINTENANCE EASEMENT |
| L.F.E. | =LOWEST FLOOR ELEVATION |
| L.P. | =LIGHT POLE |
| MEAS. | =MEASURED |
| M.H. | =MAN HOLE |
| M/L | =MONUMENT LINE |
| N.G.V.D. | =NATIONAL GEODETIC VERTICAL DATUM |
| N.T.S. | =NOT TO SCALE |
| O.E. | =OVERHEAD ELECTRIC LINE |
| O/L | =ON LINE |
| P.C.P. | =PERMANENT CONTROL POINT |
| P.M. | =PARKING METER |
| P.C. | =POINT OF CURVATURE |
| P/W | =PARKWAY |
| PL. | =PLANTER |
| P.O.C | =POINT OF COMMENCEMENT |
| P.O.B | =POINT OF BEGINNING |
| R | =RADIUS |
| RES | =RESIDENCE |
| R/W | =RIGHT OF WAY |
| S.D.H. | =SET DRILL HOLE |
| S/N | =SET NAIL |
| S.I.P. | =SET IRON PIPE |
| SDWLK | =SIDEWALK |
| ST | =STREET |
| T | =TANGENT |
| U.E. | =UTILITY EASEMENT |
| W/F | =WOOD FENCE |
| W.V. | =WATER VALVE |
| W.U.P. | =WOOD UTILITY POLE |
| —//—//— | =WOOD FENCE |
| —o—o—o— | =IRON FENCE |
| | =CBS WALL |
| —x—x—x— | =CHAIN LINK FENCE |
| | =OVERHEAD ELEC. |
| | =CENTER LINE |
| | =EASEMENT |
| +0.00' | =DENOTES ELEVATIONS |
| | =BUILDING |
| | =DISTANCE |
| | =CATCH BASIN |
| | =WATER METER |
| | =W.U.P. |
| | =STATE ROAD |
| | =US HIGHWAY |
| | =INTERSTATE |
| | =MONITORY WELL |

## Tree Legend

| # | Name | Height | Spread | Dia. |
|---|---|---|---|---|
| 1 | Oak | 30' | 30' | 1' |
| 2 | Oak | 30' | 30' | 1' |
| 3 | Oak | 30' | 30' | 1' |
| 4 | Gumbo Limbo | 25' | 18' | 1' |
| 5 | Oak | 30' | 30' | 1' |
| 6 | Oak | 30' | 30' | 1' |
| 7 | Oak | 30' | 30' | 1' |
| 8 | Oak | 30' | 30' | 1' |
| 9 | Oak | 30' | 35' | 1.5' |
| 10 | Oak | 35' | 30' | 1' |
| 11 | Oak | 40' | 30' | 1' |
| 12 | Oak | 30' | 30' | 1.5' |
| 13 | Oak | 30' | 30' | 1' |
| 14 | Oak | 30' | 30' | 1' |
| 15 | Palm | 30' | 10' | 0.70' |
| 16 | Oak | 35' | 30' | 1' |
| 17 | Oak | 30' | 30' | 1' |
| 18 | Oak | 30' | 30' | 1' |

| | |
|---|---|
| JOB # | 24-640 |
| DATE | 06-26-2024 |
| PB | 51-64 |

The sketch hereon is a true and Accurate representation thereof to the best of my knowledge and belief, Subject to notes and Notations shown hereon.

Armando Alvarez

Digitally signed by Armando Alvarez
DN: c=US, o=AFA and Company Inc, dnQualifier=A01410C000001888CB0346D001E5FA3, cn=Armando Alvarez
Date: 2024.10.30 11:21:24 -04'00'

*Armando F. Alvarez*
*Professional Surveyor & Mapper #5526*
*State of Florida*
***Not Valid unless Signed & Stamped with Embossed Seal***

Miami Dade County Department of Regulatory and Economic Resources - Job Copy
2025004680 - 6/27/2025 8:28:53 AM
Survey.pdf
Examiner Date Time Stamp Trade Stamp Name
VALDIVIESO, JOSE 6/24/2025 10:44:30 AM HRS Approved

**Water and Sewer**
PO Box 330316
Miami, Florida 33233-0316
T 786-268-5360 F 786-268-5150

# VERIFICATION FORM

| | | | |
|---|---|---|---|
| DATE: | January 13, 2025 | BLDG PROCESS #: | M2025004680 |
| VF# | 25-2025-L-VF - 1658 | INVOICE(S)#: | N00162865<br>N00162865 |

THIS FORM EXPIRES ONE YEAR FROM THE DATE ON THE FORM

| | |
|---|---|
| PROJECT NAME: | SFR-CLUST. NEW SFR -M2025004680 -10635 SW 63 AVE |
| PROJECT/AGREEMENT NUMBER: | 2025 |
| PROJECT DESCRIPTION: | NEW CONSTRUCTION OF A 9,162 SQFT SFR AS PER ARCH PLANS (1ST FLOOR= 5,997 SQFT/2ND FLOOR= 3,165 SQFT), REPLACING A 4,922 SQFT SFR AS PER PTXA. CCB PREMISE ID#1859775475 |
| IS THIS AN AFFORDABLE HOUSING PROJECT? | **No** |

| Folio | Address | Zip Code | Lot | Block | Proposed sq. ft. | Previous sq. ft. |
|---|---|---|---|---|---|---|
| 2050120040530 | 10635 SW 63 AVE | 33156 | 2 | 6 | 9,162 | 4,922 |

| Connection Type | Reason for Connection Information | Critical Habitat | Wetlands | Affordable Housing | SIR Inspection # |
|---|---|---|---|---|---|
| Water | New Construction | No | No | No | N/A |

THIS VERIFICATION LETTER CERTIFIES THAT AVAILABILITY OF A WATER AND/OR SEWER MAIN ONLY, AND IT DOES NOT GUARANTEE THE EXISTENCE OF A WATER SERVICE LINE, FIRE LINE OR OF A SEWER LATERAL WITH SUFFICIENT DEPTH TO SERVE THE PROPERTY. FOR ADDITIONAL INFORMATION EMAIL **NEWBUSINESSSUPVLIST@MIAMIDADE.GOV**. SHOULD IT BECOME NECESSARY TO INSTALL A SERVICE LINE AND/OR A SEWER LATERAL MDWASD REQUIRES THAT THE DEVELOPER RETAINS SERVICES FROM DESIGNERS AND CONTRACTORS WITH SKILL SETS FOR DESIGNING, BUILDING, AND CONNECTING TO PUBLIC WATER AND SEWER SYSTEMS. A WATER AND/OR SEWER AGREEMENT MAY BE REQUIRED. **AN INSPECTION FOR ANY EXISTING SERVICES WILL BE PROCESSED WITH THIS FORM, AND A SERVICE UPGRADE MAY BE REQUIRED WHICH MAY TAKE UP TO 12 WEEKS.**
THIS IS TO CERTIFY THAT THE MIAMI-DADE WATER AND SEWER DEPARTMENT **DOES HAVE** A(N) **8** INCH WATER MAIN AND/OR **DOES NOT HAVE** A(N) INCH GRAVITY SEWER MAIN ABUTTING THE SUBJECT PROPERTY.

| Proposed Use | Square Footage/ # Units | Water Gallons Per Day | Sewer Gallons Per Day |
|---|---|---|---|
| SFR more than 5000 sqft (510 gpd/unit) | 1 | 510 | 0 |

| Previous Use | Square Footage/ # Units | Water Gallons Per Day | Sewer Gallons Per Day |
|---|---|---|---|
| 2018 - SFR 3001-5000 sqft (310 gpd/unit) | 1 | 310 | 0 |

| Water Service Area | WASD Water | Sewer Service Area | WASD Sewer |
|---|---|---|---|
| Net Water GPD | 200 | Net Sewer GPD | 0 |
| Net Water Cost ($) | $ 278.00 | Net Sewer Cost ($) | $ 0.00 |
| Water Basin Charge ($) | No | Sewer Basin Charge ($) | No |
| Total Connection Charges ($) | | | $ 278.00 |
| Total Construction Connection Charges ($) (accrues interest daily) | | | $ 0.00 |
| Construction Connection Charges Status | | | N/A |

WE ARE WILLING TO SERVE THE SUBJECT PROPERTY, SUBJECT TO PROHIBITIONS, OR RESTRICTIONS OF GOVERNMENTAL AGENCIES HAVING JURISDICTION OVER MATTERS OF THE ANTICIPATED DAILY WATER AND/OR SEWAGE FLOW FOR THIS PROJECT WHICH WILL BE THE NUMBER OF GALLONS PER DAY INCREASE STATED ABOVE. IF "**WILL HAVE**", UPON PROPER CONVEYANCE AND PLACEMENT INTO SERVICE OF WATER AND/OR SEWER FACILITIES BY THE DEVELOPER UNDER AGREEMENT IF APPLICABLE WITH THE DEPARTMENT. FURTHERMORE, APPROVAL OF ALL SEWAGE FLOWS INTO THE DEPARTMENT'S SYSTEM MUST BE OBTAINED FROM D.E.R.M. SUBJECT TO RER'S TERMS AND CONDITIONS SET FORTH IN THE CONSENT DECREE (CASE NO. 1:12-CV-24400-FAM) OR DOH ONSITE SEWER TREATMENT & DISPOSAL SYSTEM RULES & STATUES.

| Fixed Fee Item | Price ($) | Total Quantity | Total Fees ($) |
|---|---|---|---|
| Verification Form - Residential (R-A) Water | 30 | 1.00 | 30.00 |
| Water Allocation Certificate - Initial | 90 | 1.00 | 90.00 |
| Total Fixed Fee | | | $ 120.00 |
| Verification Form Total ($) | | | $ 398.00 |
| Connection Charges Paid? | | | **Yes** |

COMMENTS: Refunds are based on the payment date and subject to State Statute 95-11. Some fees are not refundable.

CUSTOMER NAME: JULIAN CARDONA

CUSTOMER PHONE:

Prepare by: Jennifer Hilarion
Printed Name of Reviewer

Approved by: Jacqueline Rodriguez
Printed Name of Supervisor

**Attached is the Comprehensive Planning and Water Supply Certification Letter**

# WELL FORM

DOH#_____

Chapter 64E-6.004(3)(a), F.A.C.:

A plan or plat of the lot or total site ownership drawn to scale, showing boundaries with dimensions, locations of any existing or proposed residences or buildings, swimming pools, recorded easements, the on-site sewage treatment and disposal system components and their location on the property, the slope of the property and any existing or proposed wells, potable and non-potable water lines, including valves, drainage features, filled areas, unobstructed areas, and surface water bodies. The site plan shall indicate the location of wells, on-site sewage treatment and disposal systems, surface waters and other pertinent facilities or features on contiguous or adjacent property. If the features are within 75 feet of the applicant lot, the estimated to the feature must also be shown but need not be drawn to scale. The location of any public drinking water well, as defined in Chapter 64E.-6.002(44)(b), within 200 feet of the applicant's lot shall also be shown, with the distance indicated from the system to the well, and the location of limited use public water system or other public wells, as defined in Chapter 64E-6.002(44)(b), within 100 feet of the applicant lot must also be shown, or as defined in Chapter 64E-6.002(44)(a), F.A.C., within 75 feet from a private potable water well (well used only by one or two residences).

Chapter 24-12(18), Miami-Dade County Code:

The minimum separation between a well or wells and possible sources of contamination shall be a function of the drawdown radius of influence of the well or wells. In no case shall the well be located less than one hundred (100) horizontal feet from any source of contamination.

I have read the above and to the best of my knowledge I have provided the Department with full information regarding pertinent facilities and features on all adjacent properties. Furthermore, I understand that any on-site sewage treatment and disposal system permit issued on the basis of said facilities and feature as provided by me and found to be incorrect will be subject to revocation in accordance with the provisions of Chapter 120, Florida Statutes.

Property Address: 10635 SW 63 AVE MIAMI, FL 33156

Date: 02-05-2025 Signature: _____

DANIEL GUTIERREZ P.E. 49086

DANIEL F. GUTIERREZ LICENSE No. 49086 STATE OF FLORIDA PROFESSIONAL ENGINEER

Daniel F Gutierrez



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