



KEY LARGO FIRE RESCUE & EMERGENCY MEDICAL SERVICES DISTRICT

Seat 1: Tony Allen; Seat 2: Frank Conklin; Seat 3: Kenny Edge; Seat 4: George Mirabella; Seat 5: Danny Powers

DISTRICT MEETING AGENDA

February 28, 2022

This meeting will be accessible virtually via Zoom Meetings. Members of the public who wish to comment on matters before the District Board may do so by either: Sending an email to the clerk@klfems.org or Calling (301) 715-8592, and upon receiving voice prompt, dialing Meeting ID: 602 743 6243 and Password: 33037 *Members of the public who participate in the meeting through this option must mute themselves until called upon to speak.*

Website: <https://us02web.zoom.us/j/6027436243?pwd=Ylp2b3JYckhlQVpwVkFIMmVKbE1uZz09>

1. AGENDA

1a. Call to Order

1b. Roll Call

1c. Pledge of Allegiance

2. APPROVAL OF AGENDA & MINUTES

2a. Approval of February 28, 2022 Agenda

2b. Approval of January 24, 2022 District Meeting Minutes

3. PUBLIC COMMENT

4. CHAIRMAN REPORT

5. SECRETARY REPORT

6. OLD BUSINESS

6a. Phase 10 Fire Hydrant Project (Edge)

7. NEW BUSINESS

7a. MOTION/APPROVAL: Resolution 2022-01: A Resolution of the KLFEMS District Board, Approving Form of Voter Referendum & Requesting Placement of Referendum on Ballot for November 2022 Election (Jones)

7b. DISCUSSION: Station 24 Second Floor Drawings (Jones)

7c. DISCUSSION: Transportation of Cardiac Patients (Mirabella)

8. LEGAL REPORT



KEY LARGO FIRE RESCUE & EMERGENCY MEDICAL SERVICES DISTRICT

Seat 1: Tony Allen; Seat 2: Frank Conklin; Seat 3: Kenny Edge; Seat 4: George Mirabella; Seat 5: Danny Powers

9. FINANCE REPORT

9a. FY22 Financial Report Q1

10. AMBULANCE CORPS REPORT

10a. Monthly Stats January 2022

11. FIRE DEPARTMENT REPORT

11a. December 2021 Performance Report

11b. January 2022 Performance Report

12. COMMISSIONER ITEMS

13. NEXT MEETING

12a. District Meeting Mar. 14 (if required) and/or District Meeting & Strategic Workshop Mar. 28

13. ADJOURN

NEXT MEETINGS

March 14, 2022 District Meeting (if required)

March 28, 2022 District Meeting & Strategic Workshop

DOCUMENTS

AI 02a. District Meeting Agenda
AI 02b. Minutes January 24 District Meeting
AI 07a. Resolution 2022-01
AI 07b. Station 24 Drawings
AI 09a. FY22 Financial Report Q1
AI 10a. January 2022 KLVAC Stats
AI 11a. December 2021 KLVFD Performance Report
AI 11b. January 2022 KLVFD Performance Report

Persons who wish to be heard shall send submit a

The KLFR&EMS District Mission is to provide *exceptional* fire protection and emergency medical services *efficiently* and *cost-effectively* without compromising the health or safety of residents or personnel.

www.klfireescueems.com



KEY LARGO FIRE RESCUE & EMERGENCY MEDICAL SERVICES DISTRICT

Seat 1: Tony Allen; Seat 2: Frank Conklin; Seat 3: Kenny Edge; Seat 4: George Mirabella; Seat 5: Danny Powers

DISTRICT MEETING MINUTES (following the Strategic Planning Workshop)

January 24, 2022

Pursuant to Monroe County Emergency Directive 20-06 and Center for Disease Control (“CDC”) social distancing guidelines established to contain the spread of the COVID-19 virus, this meeting will be accessible virtually via Zoom Meetings. Members of the public who wish to comment on matters before the District Board may do so by either: Sending an email to the clerk@klfremms.org or Calling (301) 715-8592, and upon receiving voice prompt, dialing Meeting ID: 602 743 6243 and Password: 33037 *Members of the public who participate in the meeting through this option must mute themselves until called upon to speak.* Website: <https://us02web.zoom.us/j/6027436243?pwd=Ylp2b3JYckhIQVpwVkFIMmVKbE1uZz09>

1. AGENDA

1a. Call to Order

Chairman Tony Allen called the (in person and Zoom video conference) District Meeting to Order at 6:00 PM.

1b. Roll Call

Carol Greco called the roll. The following commissioners were present: Tony Allen, Frank Conklin, Kenny Edge, George Mirabella and Dan Powers. There was a quorum.

Also present in person or via Zoom were Carol Greco, Gaelan Jones, Jennifer Johnson and David Garrido

1c. Pledge of Allegiance

The Pledge of Allegiance was led by Commissioner Kenny Edge.

2. APPROVAL OF AGENDA & MINUTES

2a. Approval of January 24, 2022 Agenda

Motion: Chairman Allen found cause to add Item 7e. approval for the emergency purchase of LifePak. Commissioner Danny Powers made a motion to **approve the January 24, 2022 Agenda**. Commissioner Frank Conklin second, and the Board unanimously passed the motion.

2b1. Approval of December 20, 2021 Strategic Planning Workshop Minutes

Motion: Commissioner Kenny Edge made motion to **approve the December 20, 2021 Strategic Planning Workshop Minutes**. Commissioner Danny Powers second, and the Board unanimously passed the motion.



KEY LARGO FIRE RESCUE & EMERGENCY MEDICAL SERVICES DISTRICT

Seat 1: Tony Allen; Seat 2: Frank Conklin; Seat 3: Kenny Edge; Seat 4: George Mirabella; Seat 5: Danny Powers

2b2. Approval of December 20, 2021 District Meeting Minutes

Motion: Commissioner Danny Powers made motion to **approve the December 20, 2021 District Meeting Minutes**. Commissioner Frank Conklin second, and the Board unanimously passed the motion.

3. PUBLIC COMMENT

None

4. CHAIRMAN REPORT

None

5. SECRETARY REPORT

None

6. OLD BUSINESS

6a. Phase 10 Fire Hydrant Project (Edge)

Discussion was had regarding moving forward with the Phase 10 of the Fire Hydrant Project.

7. NEW BUSINESS

7a. MOTION/APPROVAL: Increase KLVFD Advance and Establish KLVAC Advance (Johnson)

Discussion was had regarding the advances to KLVFD. Currently, there are no new volunteers; most of the current volunteers are coming in from the mainland. The current service area is growing with the demand for Fire/EMS coverage. An advance with allow KLVFD to fill necessary positions.

Motion: Commissioner Kenny Edge made motion to **approve Increase KLVFD Advance and Establish KLVAC Advance**. Commissioner Danny Powers second, and the Board unanimously passed the motion.

7b. MOTION/APPROVAL: Resolution #2020-001 Monroe County BOCC Place Millage Increase Referendum on Ballot (Jones)

Discussion was had regarding Exhibit A (Increased Maximum Millage Rate for Key Largo Fire & Rescue Emergency Services). Commissioners Edge and Powers like the exhibit as presented. Further discussion was had regarding how this would be presented to the public, as well as when to place the Millage Increase Referendum on either the Primary (August 2022) or General Election (November 2022) ballot. It was the consensus of the board to further discuss and address the most efficient way to proceed at a later date.



KEY LARGO FIRE RESCUE & EMERGENCY MEDICAL SERVICES DISTRICT

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7c. MOTION/APPROVAL: Approval of Mutual Aid Agreement with National Park Service (Jones)

Discussion was had regarding the Mutual Aid Agreement with National Park Service, the proposed service area from MM 98 north to MM 102 (easement property located behind Alfredo's Restaurant). Sue Heim questioned if there were a catastrophic event and mutual aid agencies attended, would that agency bear their respective costs associated with the incident; i.e., personnel, equipment, etc. The redlined version of the Agreement should be accepted, finalized and circulated for signature.

Motion: Commissioner Danny Powers made motion to **approve the Mutual Aid Agreement with the National Park Service**. Commissioner Frank Conklin second, and the Board unanimously passed the motion.

7d. DISCUSSION: SAFER Grant (Garrido)

Captain Garrido contacted a grant writer regarding the new legislation for SAFER Grants and the three (3) year coverage period. Discussion was had regarding the FEMA requirement for personnel. A required 13 people per are necessary. In order to meet the requirement, additional personnel would have to be hired. Costs associated with fully staffing additional personnel, along with benefits could reach upwards of \$800k annually. It was decided to table further discussions until after the Millage increase has passed.

7e. TENTATIVE ADD-ON: MOTION/APPROVAL: Emergency Purchase of LifePak \$19,790.60 (Bock)

Discussion was had regarding the purchase of a new LifePak versus an older version. Purchasing an older model would eventually require updates that would most likely not be cost effective as any computer based device generally loses effectiveness within a couple of years. It was determined that purchasing the new device with the current discount would be most feasible.

Motion: Commissioner Danny Powers made motion to **approve the Mutual Aid Agreement with the National Park Service**. Commissioner Frank Conklin second, and the Board unanimously passed the motion.

8. LEGAL REPORT

None

9. AMBULANCE CORPS REPORT

The Ambulance Corps Report that they have 2 part-time employees; hired 2 part-time paramedics.

10. FIRE DEPARTMENT REPORT

The emergency lights outside Station 24 are in the process of being refurbished. Two firefighters have been hired with a third being processed.



KEY LARGO FIRE RESCUE & EMERGENCY MEDICAL SERVICES DISTRICT

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DISTRICT MEETING MINUTES (Continue) JANUARY 24, 2022

11. COMMISSIONER ITEMS

None

12. NEXT MEETING.

12a. KLFR&EMS February 14th or February 28th District Meeting and Strategic Planning Workshop

The Board made a decision to cancel the February 14th District Meeting, unless otherwise needed. The next District and Strategic Planning Workshop will be February 28, 2022.

13. ADJOURN

Commissioner Kenny Edge made a Motion to Adjourn at 7:17PM, Commissioner Danny Powers second, and the motion was unanimously approved by the Board.

*Persons who wish to be heard shall send submit a
Speaker Request Form to the Chairman or request to speak via Zoom.*

RESOLUTION 2022 – 001

A RESOLUTION OF THE KEY LARGO FIRE & EMERGENCY MEDICAL SERVICES DISTRICT BOARD OF COMMISSIONERS, APPROVING FORM OF VOTER REFERENDUM, REQUESTING PLACEMENT OF REFERENDUM ON BALLOT FOR NOVEMBER 2022 ELECTION, PROVIDING FOR SEVERABILITY AND PROVIDING FOR AN EFFECTIVE DATE

WHEREAS, the Key Largo Fire & Emergency Medical Services District (the “District”) is legislatively charged with the provision of fire protection and firefighting services, rescue services and emergency medical services to the residents of Key Largo, Florida; and

WHEREAS, the District is organized and holds all legal powers set forth by Chapters 189, 191, and 2005-329, Florida Statutes, including but not limited to the annual levy of ad valorem taxes; and

WHEREAS, the District’s enabling legislation, Chapter 2005-329, Florida Statutes, provides the District with authority to levy ad valorem taxes in an amount not to exceed one (1) mill by annual resolution of the Board; and

WHEREAS, the District’s enabling legislation provides that the District may levy ad valorem taxes in an amount above one (1) mill if such increase is approved by the majority of voters voting in a referendum election; and

WHEREAS, since the legislative creation of the District as an independent special fire control district in 2005, the District maintained a budget providing for annual ad valorem taxation in amounts substantially less than one (1) mill until 2018; and

WHEREAS, the District has been able to maintain a budget providing for ad valorem taxation of less than one (1) mill by utilizing a primarily volunteer-based staffing system which has become more difficult to maintain due to a rise in local population and significant increases in the cost of housing; and

WHEREAS, over the past ten (10) years, Monroe County has experienced a surge of population growth, with an approximately fifteen percent (15%) increase in full-time residents and an approximately forty five percent (45%) increase in housing costs between 2010 and 2020; and

WHEREAS, due to the increased cost of labor, materials and equipment required for the District to continue providing high-quality firefighting, rescue and emergency medical services to the residents of Key Largo, the District seeks voter approval to increase the total amount of millage that the District is permitted to levy on an annual basis; and

WHEREAS, the District Board of Commissioners wishes to make clear to the voters of Key Largo that it does not intend to levy annual millage at the maximum rate permitted under the requested increase, and that it will continue its longstanding policy of providing high quality firefighting, rescue, and emergency medical services in the most cost-effective manner possible;

NOW THEREFORE BE IT RESOLVED BY THE KEY LARGO FIRE & EMERGENCY MEDICAL SERVICES DISTRICT BOARD OF COMMISSIONERS, AS FOLLOWS:

1. Requesting Placement of Referendum on Election Ballot

Pursuant to Chapter 2005-329, Florida Statutes, the Board of County Commissioners of Monroe County, Florida is hereby directed to call an election on November 8, 2022, for the qualified electors of Key Largo, Florida to vote on approval of an increase in the maximum rate of millage leviable by the Key Largo Fire & Emergency Medical Services District.

2. Approval of Ballot Question

The Key Largo Fire Rescue & Emergency Medical Services District Board of Commissioners hereby approves the issuance of a voter referendum requesting an increase in the maximum permissible millage it may levy to provide for fire protection, firefighting services and emergency medical services to the residents of Key Largo, Florida. The substance of said referendum and the ballot title shall be in the form attached hereto as Exhibit A.

In accordance with the Voting Rights Act, the District Attorney is hereby directed to obtain a true and accurate Spanish translation of the ballot question before this resolution is transmitted to the Monroe County Board of Commissioners, and provide said translation to same.

3. Effective Date

This Resolution shall become effective immediately upon its adoption by the Key Largo Fire & Emergency Medical Services District Board of Commissioners.

[REMAINDER OF PAGE LEFT INTENTIONALLY BLANK]

DULY ADOPTED by the Key Largo Fire & EMS District Board of Commissioners this 28th day of February, 2022.

Board Chair Anthony Allen	NO _____	YES _____
Vice-Chair George Mirabella	NO _____	YES _____
Secretary Kenneth Edge	NO _____	YES _____
Commissioner Daniel Powers	NO _____	YES _____
Commissioner Frank Conklin	NO _____	YES _____

Anthony Allen, Board Chair

Gaelan P. Jones, Esq., District Attorney

EXHIBIT A

INCREASED MAXIMUM MILLAGE RATE FOR KEY LARGO FIRE RESCUE & EMERGENCY MEDICAL SERVICES

The Key Largo Fire & EMS District may not levy ad valorem taxes exceeding 1.00 mill without voter approval. The District seeks to increase its maximum millage rate to cover future costs of providing high-quality fire-rescue and emergency medical services to the residents of Key Largo.

Shall the maximum millage rate of the District be revised to 2.00 mills, to fund the continued provision of fire rescue and emergency medical services to Key Largo residents?

_____ **YES**

_____ **NO**

ABBREVIATIONS

ACT	ACOUSTICAL CEILING TILE	LF	LINEAR FEET
ADA	AMERICANS WITH DISABILITIES ACT	LH	LEFT HAND
ADJ	ADJACENT	LT	LIGHT
AF	ABOVE FINISH FLOOR	LTG	LIGHTING
ALT	ALTERNATE	MAT	MATERIAL
ALUM	ALUMINUM	MAX	MAXIMUM
ANCO	ANODIZED	MECH	MECHANICAL
ANZI	AMERICAN NATIONAL STANDARDS INSTITUTE	MAN	MANUFACTURER
ARCH	ARCHITECTURE, ARCHITECTURAL, ARCHITECT	MIN	MINIMUM
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	MIL	MIL
AUTO	AUTOMATIC	NA	NOT APPLICABLE
BFF	BELOW FINISH FLOOR	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
BLDG	BUILDING	NO	NOT IN CONTRACT
BO	BOTTOM OF	NO	NUMBER
CAB	CABINET	NOM	NORMAL
CCTV	FLOORED CIRCUIT TELEVISION	NRC	NOISE REDUCTION COEFFICIENT
CK	CONTROL JOINT	NTS	NOT TO SCALE
CLG	CEILING	ON CENTER	ON CENTER
CLG	CLEAR	OD	OUTSIDE DIAMETER
CMU	CONCRETE MASONRY UNIT	OH	OVERHEAD
COL	COLUMN	OP	OPPOSITE
CONC	CONCRETE	OSB	ORIENTED STRAND BOARD
CONT	CONTINUOUS	PEF	PER FORATED
CPT	CORSET	PLAM	PLASTIC LAMINATE
CR	CERAMIC TILE	PLW	PLYWOOD
DRMD	DRIBBLUTION	PNL	PANEL
DEPT	DEPARTMENT	PVC	POLYVINYL CHLORIDE
DFW	DRIVING FOUNTAIN	PWR	POWER
DM	DIAMETER	QT	QUARTY TILE
DM	DIMENSION	QTY	QUANTITY
DN	DOWN	RCB	RUBBER GROMMET BASE
DTL	DETAL	RCF	REFLECTED CEILING PLAN
DWS(D)	DRAWINGS(S)	REF	REFERENCE, REFRIGERATOR
EA	EACH	REQD	REQUIRED
EF	EXHAUST FAN	REV	REVISION, REVESED
EFIS	EXTERIOR INSULATION FINISH SYSTEM	RH	RIGHT HAND
EJ	EXPANSION JOINT	RM	ROOM
ELEV	ELEVATION, ELEVATOR	SCHED	SCHEDULE
EMER	EMERGENCY	SF	SQUARE FEET
EQ	EQUIP	SHT	SHEET
EQUIP	EQUIPMENT	SM	SIMILAR
EXR	EXISTING TO REMAIN	SPEC(S)	SPECIFICATIONS(S)
EXN	EXHAUST	SQ	SQUARE
EXST'G	EXISTING	SS	STAINLESS STEEL
EXT	EXTERIOR	STC	SOUND TRANSMISSION COEFFICIENT
FA	FIRE ALARM	STD	STANDARD
FD	FLOOR DRAIN	STL	STEEL
FEC	FIRE EXTINGUISHER CABINET	STRUC	STRUCTURAL STRUCTURE
FTE	FINISH FLOOR ELEVATION	SUSP	SUSPENDED
FL	FLOOR	SW	SWITCH
FT	FIXTURES	TEL	TELEPHONE
FS	FLOOR SINK, FIRE SPRINKLER	TEMP	TEMPERATURE, TEMPORARY
FT	FOOT	TOILET	TOILET
GA	GALVE	TOP OF	TOP OF
GA	GALVANIZED	TV	TELEVISION
GFCI	GROUND FAULT CURRENT INTERRUPTOR	TYP	TYPICAL
GWB	Gypsum WALLBOARD	UL	UNDERWRITERS LABORATORIES
UNC	UNLESS NOTED OTHERWISE	UNO	UNLESS NOTED OTHERWISE
HWDE	HARDWARE	VCT	VINYL COMPOSITION TILE
HM	HOLLOW METAL	VF	VERIFY IN FIELD
HT	HEIGHT	WVC	WYVIL WALL COVERING
HVAC	HEATING VENTILATION & AIR CONDITIONING	W/	WITH
IN	INCHES	W/O	WITHOUT
INT	INTERIOR	WC	WATER CLOSET
JAN	JANITOR	WD	WOOD
LAV	LAUNDRY	WH	WALL HEATER
LIBS	LIBRARIES		

FIRE STATION RENOVATION

overseas hwy & east drive

key largo, fl 33037

SITE DATA

SITE DATA
 ZONING CLASSIFICATION: SC (SUBURBAN COMMERCIAL)
 F.L.U.M.: SC (SUBURBAN COMMERCIAL)
 OVERLAY DISTRICT: TIER 1 - NATURAL AREA
 FLOOD ZONE: AE X

MIN. OPEN SPACE RATIO: .20
 EXIST'G OPEN SPACE RATIO: .38
 PROPOSED OPEN SPACE RATIO: .34 (OK)

EXIST'G IMPERVIOUS AREA: 18,938 SF
 IMPERVIOUS AREA ADDED: 1,083 SF
 PROPOSED IMPERVIOUS AREA: 20,021 SF

EXIST'G BUILDING AREA: 7,411 GSF
 BUILDING AREA ADDED: 7,737 GSF
 PROPOSED BUILDING AREA: 7,588 GSF
 EXIST'G LOT SIZE: 30,175 SF.

MINIMUM SETBACKS (REFER TO PLAN THIS SHEET):
 FRONT YARD: 25'-0"
 REAR YARD: 10'-0"
 STREET SIDE YD.: 15'-0"
 SECONDARY SIDE YD.: 5'-0"

MAXIMUM HEIGHT: 35'-0"
 EXIST'G HEIGHT: 22'-0"
 PROPOSED HEIGHT: 30'-4" (OK)

CODE SUMMARY

SHELL/BUILDING DATA
 USE GROUP: R-2 / S-2 / B / A-3 FBC CHAPTER 3
 CONSTRUCTION TYPE: II-A FBC 602.2
 NON-SPRINKLED EXISTING BUILDING
 SPRINKLERED NEW SECOND STORY
 ALLOWABLE AREA: 28,000 SF TABLE 506.2
 GROSS BUILDING AREA: 11,613 GSF

MEANS OF EGRESS: FBC CHAP. 10
 (ALSO REFER TO CODE COMPLIANCE/LIFE SAFETY PLAN THIS SHEET)

PLUMBING SYSTEMS: FBC CHAP. 29
 OCCUPANTS EA. SEX + 80/2 - 43 EA. SEX

OCCUPANT LOAD: FBC 1004.1.2
 CLASSROOM (20 SEAT): 55
 OFFICE/BUSINESS (11/50): 7
 RESIDENTIAL (1/200): 13
 TOTAL: 86

FIXTURES/REQD COMPLIANCE, ETC. (OK)
 WORK AREA COMPLIANCE METHOD:
 301.1.2
 ALTERATION LEVEL 3 (5-50% OF FLOOR AREA) 505.1

EGRESS WIDTH REQD (STAIRS): FBC 1005.2
 13'0" OC x 0.37'0" OC = 3.9 INCHES

EGRESS WIDTH REQD: FBC 1005.3.2
 88'0" OC x 0.27'0" OC = 17.2 INCHES

EGRESS WIDTH PROVIDED: 144 INCHES (OK)

SECOND FLOOR EGRESS: FBC 1006.3
 EXITS PROVIDED: 2
 EXITS PROVIDED: 2

FIRST FLOOR EGRESS: FBC 1006.2.1
 EXITS REQUIRED: 2
 EXITS PROVIDED: 2

COMMON PATH LIMITS: FBC 1006.2.1
 RESIDENTIAL: 75'-0"

REFER TO LIFE SAFETY/CODE COMPLIANCE PLAN FOR ADDITIONAL EXITING INFORMATION

SEPARATION OF EXITS: FBC 1007.1.1
 SECOND FLOOR
 MIN. SEPARATION - 87'-0"/2 = 43'-6"
 SEPARATION PROVIDED - 68'-0" (OK)

CHAPTER 9 ALTERATIONS - LEVEL 3:
 901.4 AUTOMATIC SPRINKLER WILL BE ADDED TO NEW SECOND STORY.
 905.1 NEW MEANS OF EGRESS WILL COMPLY WITH FBC.
 907.4 NEW STRUCTURAL ELEMENTS WILL COMPLY WITH FLORIDA BUILDING CODE.

DRAWING INDEX

SHEET NUMBER	DRAWING TITLE	REVISION DATE	ISSUED FOR			
		1	2	3	4	5
GENERAL						
G2.0.1	COVER SHEET					
G2.0.0	LIFE SAFETY PLANS					
G2.0.0	SPECIFICATIONS					
G2.0.1	SPECIFICATIONS					
G2.0.2	SPECIFICATIONS					
G2.0.3	SPECIFICATIONS					
G2.0.4	SPECIFICATIONS					
G2.0.5	SPECIFICATIONS					
G2.0.6	SPECIFICATIONS					
G2.0.7	SPECIFICATIONS					
G2.0.8	SPECIFICATIONS					
ARCHITECTURAL						
A2.1.1	FIRST FLOOR DEMOLITION PLAN					
A2.1.1	DEMOLITION EXTERIOR ELEVATIONS					
A1.0.0	ARCHITECTURAL SITE PLAN					
A2.1.1	FIRST FLOOR PLAN					
A2.1.2	SECOND FLOOR PLAN					
A2.2.1	FIRST FLOOR REFLECTED CEILING PLAN					
A2.2.2	SECOND FLOOR REFLECTED CEILING PLAN					
A2.3.1	ROOF PLAN					
A3.1.1	EXTERIOR ELEVATIONS					
A4.0.0	BUILDING SECTIONS					
A4.1.0	WALL SECTIONS					
A5.0.0	ENLARGED PLANS					
A6.1.1	SCHEDULES AND DETAILS					

LITTLE RED ROOSTER
 Your Vision • Our Passion
 25 Ships Way
 Big Pine, FL 33043
 (305) 509 - 7932
 www.LittleRedRooster.com

CONSULTANTS
 CIVIL ENGINEER
 STRUCTURAL ENGINEER
 MECHANICAL ENGINEER
 ELECTRICAL ENGINEER

NOT FOR CONSTRUCTION

FL LIC. AR98660 exp. 2/28/2023

PROJECT LOCATION



APPLICABLE CODES

2020 FLORIDA BUILDING CODE, 7TH EDITION - BUILDING (FBC)
 2020 FLORIDA BUILDING CODE, 7TH EDITION - EXISTING (FBC-EX)
 2020 FLORIDA MECHANICAL CODE, 7TH EDITION (FBC-M)
 2020 FLORIDA PLUMBING CODE, 7TH EDITION (FBC-P)
 2020 FLORIDA FUEL GAS CODE, 7TH EDITION (FBC-FG)
 2020 NATIONAL ELECTRICAL CODE (NEC 2014)
 ACCESS: 7-18 MINIMUM DESIGN LOADS AND ASSOCIATED CRITERIA FOR BUILDINGS AND OTHER STRUCTURES
 FLORIDA FIRE PREVENTION CODE (FFPC)
 FLORIDA ACCESSIBILITY CODE

PROJECT DESCRIPTION

THIS PROJECT INCLUDES APPROX. 4,000 SF SECOND FLOOR ADDITION ON TOP OF THE EXISTING ROOF STRUCTURE. THERE WILL ALSO BE INTERIOR RENOVATIONS THAT OCCUR TO THE GROUND FLOOR TO UPDATE THE PROGRAM REQUIREMENTS WITH THE ADDITION OF THE SECOND FLOOR. THE SECOND FLOOR WILL HOUSE THE SLEEPING QUARTERS, KITCHEN/LIVING, AND LAUNDRY FACILITY. THE GROUND FLOOR WILL REMAIN ADMINISTRATION WITH THE ADDITION OF A PRESENTATION / TRAINING SPACE. EXTERIOR WILL INCLUDE THE RESURFACING AND EXPANSION OF THE EXISTING PARKING LOT TO ACCOMMODATE AN ACCESSIBLE PATH TO THE ENTRY. STRUCTURAL WORK WILL CONSIST OF THE DESIGN OF THE SECOND STORY ON THE EXISTING ROOF STRUCTURE. MEP WORK WILL INCLUDE THE RELOCATION AND REPLACEMENTS OF FIXTURES AND GRILLS ON THE GROUND FLOOR AS WELL AS NEW SYSTEMS THROUGHOUT THE SECOND FLOOR.

CONTACT SCHEDULE

CLIENT:
 KEY LARGO FIRE & EMS DISTRICT
 1100 Simonton Street
 Key West, FL 33040
 Contact: Gaelean Jones
 E: g.jones@florida-law.com

ESTIMATOR:
 BURKE CONSTRUCTION GROUP
 1722 N. Roosevelt Blvd.
 Key West, FL 33040
 Contact: John O'Neill
 E: joneill@bkconconstruction.net

ARCHITECT OF RECORD:
 LITTLE RED ROOSTER
 25 Ships Way
 Big Pine Key, FL 33040
 Contact: Phil Badalamenti
 E: phil@littleredrooster.com
 M: (305) 998-9271

STRUCTURAL ENGINEER OF RECORD:
 STRUCTURES INTERNATIONAL, INC.
 7501 Willes Road, Suite 106-B
 Coral Springs, FL 33067
 Contact: Monroe Farnsworth
 E: mfarner@siengineers.com

SHEET TITLE:
COVER SHEET

ORIGINAL SIZE: PROJECT NUMBER:
 24 x 36 21003

DRAWN BY: CHECKED BY:
 DRW CHK

CREATION DATE: DATE
 ISSUED FOR: DATE

REVISION	DATE

SHEET NUMBER:
GO.0.1

PLOTTED:
 3/17/2023 10:43 AM
 2021 LITTLE RED ROOSTER.LLC

SECTION 00 7200 – GENERAL CONDITIONS

FORM OF GENERAL CONDITIONS
AA Document A201, General Conditions of the Contract for Construction, Current Edition

SECTION 01 0000 – PRICE AND PAYMENT PROCEDURES

- 1.01 SCHEDULE OF VALUES
A. Submit a priced schedule on AA Form 0703 – Application and Certificate for Payment, Contract Sum, Contractor's standard form or electronic media.
B. Provide a priced schedule on AA Form 0703 – Application and Certificate for Payment and AA Form 0703 – Confirmation Sheet, including certification sheets when required.
- 1.02 APPLICATIONS FOR PROGRESS PAYMENTS
A. Form: AA Form 0703 – Application for Payment and AA Form 0703 – Confirmation Sheet, including certification sheets when required.
- 1.03 MODIFICATION PROCEDURES
A. Contractor may request a change by submitting a request for change to Architect, describing the proposed change and its full effect on the Work, with a statement describing the proposed change and the effect on the Contract Sum and Contract Time with full documentation and a statement describing the effect on Work by approve or other contractors. Document any requested substitutions as specified.
- 1.04 APPLICATION FOR FINAL PAYMENT
A. Prepare Application for Final Payment as specified for progress payments, identifying total adjusted Contract Sum, previous payments, and sum remaining.
B. Application for Final Payment will not be considered until the following have been met:
1. All closeout documents specified.
2. Final waivers of lien shall be submitted.

SECTION 01 3000 – ADMINISTRATIVE REQUIREMENTS

- 1.01 Provide for mobilization areas of site, for field offices and sheds, for access, traffic, and parking facilities. During construction, coordinate use of site and facilities.
2. Establish procedures for inter-project communications; submit, reports and records, schedules, coordination drawings, and recommendations; and resolution of ambiguities and conflicts.
3. Coordinate the use of temporary utilities and construction facilities.
4. Coordinate field engineering and layout work.
5. Make the submission to Architect as required by the Contract Documents, through the General Contractor.
6. Allow 10 business days for Architect's review.

- 2.01 PROJECT MEETINGS
A. Schedule and conduct meetings throughout progress of the Work.
B. Make arrangements for meetings, provide agendas with copies for participants, prepare all meetings. Distribute meeting minutes to Owner and Architect.
- 2.02 CONSTRUCTION EXPENSES SCHEDULE
A. Prepare detailed construction schedule.
- 2.03 PROGRESS PHOTOGRAPHS
A. Schedule and conduct meetings throughout progress of the Work.
B. Make arrangements for meetings, provide agendas with copies for participants, prepare all meetings. Distribute meeting minutes to Owner and Architect.
- 2.04 CONSTRUCTION EXPENSES SCHEDULE
A. Prepare detailed construction schedule.
- 2.05 PROGRESS PHOTOGRAPHS
A. Schedule and conduct meetings throughout progress of the Work.
B. Make arrangements for meetings, provide agendas with copies for participants, prepare all meetings. Distribute meeting minutes to Owner and Architect.

- 2.06 SUBMITTALS FOR PROJECT CLOSURE
A. Prepare detailed construction schedule.
B. Make arrangements for meetings, provide agendas with copies for participants, prepare all meetings. Distribute meeting minutes to Owner and Architect.
- 2.07 REQUESTS FOR INFORMATION (RFI)
A. Upon discovery of the need for interpretation of the Contract Documents, prepare and submit an RFI to the Architect. A standard RFI form shall be utilized, and an electronic version of the RFI form is available from the Architect.
B. Response to an RFI is not authorization for a change in Contract Sum or a change in Contract Time, if either are affected; include on the RFI or attached documentation, and proceed in accordance with provisions of Section 1200 for Modification Procedures.
1. The Architect and the architect's consultants will not accept RFI directly from subcontractors.
2. When the following are specified in individual sections, submit them for review:
A. Trade data.
B. Shop drawings.
C. Samples for selection.
D. Samples for verification.
E. Samples will be reviewed only for aesthetic, color, or finish selection.
- 2.08 SUBMITTALS FOR PROJECT CLOSURE
A. Prepare detailed construction schedule.
B. Make arrangements for meetings, provide agendas with copies for participants, prepare all meetings. Distribute meeting minutes to Owner and Architect.

SECTION 01 4000 – QUALITY REQUIREMENTS

- 1.01 REFERENCES AND STANDARDS
A. For products and workmanship specified by reference to a document or documents not included in the Project Manual, also referred to as reference documents, comply with requirements of the standards, except when more rigid requirements are specified or are required by applicable codes.
B. Should specified reference standards conflict with Contract Documents, request clarification from Architect before proceeding.
- 1.02 TESTING AND INSPECTION AGENCIES
A. Owner will employ services of an independent testing agency to perform certain code required special testing and inspection.
B. Contractor shall employ and pay for services of an independent testing agency to perform other specified testing and inspection.
- 1.03 CONTROL OF INSTALLATION
A. Monitor quality control over suppliers, manufacturers, products, services, site conditions, and workmanship, to produce Work of specified quality.
B. Comply with manufacturers' instructions, including each step in sequence.
C. Should manufacturers' instructions conflict with Contract Documents, request clarification from Architect before proceeding.
D. Comply with specified standards as minimum quality for the Work except where more stringent tolerances, codes, or specified requirements indicate higher standards or more precise workmanship.
E. Have Work performed to produce required and specified quality.
F. Specify that field measurements are as indicated on shop drawings or as instructed by the manufacturer.
G. Secure products in place with positive anchorage devices designed and sized to withstand stresses, vibrations, physical distortion, and displacement.
- 1.04 TOLERANCES
A. Monitor fabrication and installation tolerance control of products to produce acceptable Work. Do not permit tolerances to accumulate.
B. Comply with manufacturers' tolerances except where industry standards tolerances are more restrictive. Should manufacturers' tolerances conflict with Contract Documents, request clarification from Architect before proceeding.
- 1.05 TESTING AND INSPECTION
A. See individual specification sections for testing and inspection required.
B. Testing Agency Duties:
1. Provide qualified personnel at site. Cooperate with Architect and Contractor in performance of services as indicated on drawings and specifications.
2. Perform specified sampling and testing of products in accordance with specified standards.
3. Assertion compliance of materials and mixes with requirements of Contract Documents.
4. Promptly notify Architect and Contractor of observed irregularities or non-conformance of Work or products.
5. Perform additional tests and inspections required by Architect.
6. Submit reports of all test inspections specified.
C. Limits on Testing/Inspection Agency Authority:
1. Agency may not release, revoke, alter, or enlarge on requirements of Contract Documents.
2. Agency may not approve or accept any portion of the Work.

- 3. Agency has no authority to stop the Work.
4. Contractor's Responsibility:
1. Deliver to agency of designated location, adequate samples of materials proposed to be used that require testing, along with proposed mix designs.
2. Cooperate with laboratory personnel, and provide access to the Work and to manufacturers' facilities.
3. Provide testing and inspection agency sufficient notice prior to expected time for operations requiring testing/inspection services.
4. Re-testing required because of non-conformance to specified requirements shall be performed by the manufacturer.
5. Re-testing required because of non-conformance to specified requirements shall be paid for by Contractor.
- 3.05 MANUFACTURERS' FIELD SERVICES
A. When specified in individual specification sections, require material or product supplier to provide qualified staff personnel to observe site conditions, conditions of surfaces and installation, quality of workmanship, start-up of equipment, test, adjust and balance of equipment as applicable, and to provide instructions when necessary.
3.06 CORRECTION
A. Replace Work or portions of the Work not conforming to specified requirements.
- 3.07 TEMPORARY UTILITIES
A. Provide and pay for electrical power, lighting, water, heating and cooling, and ventilation required for construction purposes.
B. Provide, maintain, and pay for telecommunication services including internet connection to field office, through duration of project.
- 3.08 BARRIERS
A. Provide barriers to prevent unauthorized entry to construction areas, to prevent access to areas that could be hazardous to workers or the public, to allow for owner's use of site and to protect existing facilities and adjacent properties from damage from construction operations and demolition.
B. Provide barricades and covered walkways for public rights-of-way and to maintain safe public access to existing facilities and adjacent properties.
C. Provide protection for plants designed to remain. Replace damaged plants.
- 3.09 FENCING
A. Commercial grade chain link fence. Provide 6 foot high.
- 3.10 EXTERIOR ENCLOSURES
A. Provide temporary weather tight closures of exterior openings to accommodate acceptable working conditions and protection for structure, and include temporary heating and maintenance of required ambient temperatures identified in individual specification sections, and to prevent entry of unauthorized persons.
B. Provide access doors with self-closing hardware and locks.
1. When the project site or portions thereof is to be occupied during construction, provide enclosed interior weather tight closure.
3.11 INTERIOR ENCLOSURES
A. Provide temporary partitions and ceilings as indicated to separate work areas from Owner-occupied areas, to prevent penetration of dust and moisture into Owner-occupied areas, and to prevent damage to existing materials and equipment.
B. Construction: Framing and reinforced polyethylene sheet materials with closed joints and sealed edges of intersections with existing surfaces, unless otherwise indicated on the drawings. Minimum flame spread rating of 25 in accordance with ASTM E84.
3.12 SECURITY
A. Provide security and facilities to protect Work, existing facilities, and Owner's operations from unauthorized entry, vandalism, or theft.
3.13 VEHICULAR ACCESS AND PARKING
A. Comply with regulations relating to use of streets and sidewalks, access to emergency facilities, and access for emergency vehicles.
B. Coordinate access and haul routes with governing authorities and Owner.
C. Provide and maintain access to fire hydrants.
D. Provide means of removing mud from vehicle wheels before entering streets.
E. Provide temporary parking areas to accommodate construction personnel. When site space is not adequate, provide additional off-site parking.
3.14 WASTE REMOVAL
A. Provide waste removal facilities and services as required to maintain the site in clean and orderly condition.
B. Provide containers with lids. Remove trash from site periodically.
C. If materials to be recycled or re-used on the project must be stored on-site, provide suitable non-combustible containers; locate containers holding flammable material outside the structure unless otherwise approved by the authorities' having jurisdiction.
D. Open fire-hall chutes are not permitted. Remove closed chutes using appropriate containers with lids.
3.15 FIELD OFFICES
A. Office, workroom, site lighting, egress/exit routes, heating, cooling equipment, and equipped with sturdy furniture, drawing rack and drawing display table.
B. Provide space for Project meetings, with table and chairs to accommodate 10 persons.

SECTION 01 5000 – TEMPORARY FACILITIES, CONTROLS & SIGNS

- 1.01 TEMPORARY UTILITIES
A. Provide and pay for electrical power, lighting, water, heating and cooling, and ventilation required for construction purposes.
B. Provide, maintain, and pay for telecommunication services including internet connection to field office, through duration of project.
- 1.02 BARRIERS
A. Provide barriers to prevent unauthorized entry to construction areas, to prevent access to areas that could be hazardous to workers or the public, to allow for owner's use of site and to protect existing facilities and adjacent properties from damage from construction operations and demolition.
B. Provide barricades and covered walkways for public rights-of-way and to maintain safe public access to existing facilities and adjacent properties.
C. Provide protection for plants designed to remain. Replace damaged plants.
- 1.03 FENCING
A. Commercial grade chain link fence. Provide 6 foot high.
- 1.04 EXTERIOR ENCLOSURES
A. Provide temporary weather tight closures of exterior openings to accommodate acceptable working conditions and protection for structure, and include temporary heating and maintenance of required ambient temperatures identified in individual specification sections, and to prevent entry of unauthorized persons.
B. Provide access doors with self-closing hardware and locks.
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3.12 SECURITY
A. Provide security and facilities to protect Work, existing facilities, and Owner's operations from unauthorized entry, vandalism, or theft.
3.13 VEHICULAR ACCESS AND PARKING
A. Comply with regulations relating to use of streets and sidewalks, access to emergency facilities, and access for emergency vehicles.
B. Coordinate access and haul routes with governing authorities and Owner.
C. Provide and maintain access to fire hydrants.
D. Provide means of removing mud from vehicle wheels before entering streets.
E. Provide temporary parking areas to accommodate construction personnel. When site space is not adequate, provide additional off-site parking.
3.14 WASTE REMOVAL
A. Provide waste removal facilities and services as required to maintain the site in clean and orderly condition.
B. Provide containers with lids. Remove trash from site periodically.
C. If materials to be recycled or re-used on the project must be stored on-site, provide suitable non-combustible containers; locate containers holding flammable material outside the structure unless otherwise approved by the authorities' having jurisdiction.
D. Open fire-hall chutes are not permitted. Remove closed chutes using appropriate containers with lids.
3.15 FIELD OFFICES
A. Office, workroom, site lighting, egress/exit routes, heating, cooling equipment, and equipped with sturdy furniture, drawing rack and drawing display table.
B. Provide space for Project meetings, with table and chairs to accommodate 10 persons.

SECTION 01 6000 – PRODUCT REQUIREMENTS

- 2.01 PRODUCTS
A. Existing materials and equipment indicated to be removed, but not to be replaced, shall be used in the drawings in the form of notes or schedules as appropriate to maintain the property of the Owner, become the property of the Contractor, remove from site.
B. Provide new products unless specifically required or permitted by the Contract Documents.
2.02 PRODUCT OPTIONS
A. Products Specified by Reference Standards or by Description Only: Use only product meeting those standards or description.
B. Products Specified by Naming One or More Manufacturers: Use a product of one of the manufacturers named and meeting specifications, no options or substitutions allowed.
C. Products Specified by Naming One or More Manufacturers with a Provision for Substitutions: Submit a request for substitution for any manufacturer not named.
1. Specifications are, in general, written to be generic, however, where specific products are required, for example a certain size, color, texture, configuration or other characteristic, manufacturer and product information are provided on the drawings in the form of notes or schedules as appropriate.
2. Substitutions for products so indicated will be considered in accordance with "Substitution Procedures" of this specification Section.
2.03 MAINTENANCE MATERIALS
A. Furnish extra materials, spare parts, tools, and software of types and in quantities specified in individual specification sections. Deliver and place in location as directed, obtain receipt prior to final payment.
3.01 SUBSTITUTION PROCEDURES
A. A request for substitution constitutes a representation that the substitute:
1. Has investigated proposed product and determined that it meets or exceeds the quality level of the specified product.
2. Will provide the same warranty for the substitution as for the specified product.
3. Will coordinate installation and make changes to other Work that may be required for the Work to be complete with no additional cost to Owner.
4. Waives claims for additional costs or time extension that may subsequently become apparent.
5. Will reimburse Owner and Architect for review or redesign services associated with substitution.

- B. Substitutions will not be considered when they are indicated or implied on shop drawings, product data submitted, without prior written request, or when acceptance will require revision to the Contract Documents.
C. Substitution/ Submittal Procedure:
1. Submit shop drawings, product data, and certified test results affecting to the proposed product equipment. Burden of proof is on proposer.
2. The Architect will notify Contractor in writing of decision to accept or reject revised materials.
3.02 OWNER-SUPPLIED PRODUCTS
A. Deliver, install and deliver Owner reviewed shop drawings, product data, and samples, to Contractor.
1. Arrange for and deliver Owner reviewed shop drawings, product data, and samples, to Contractor.
2. Submit claims for transportation damage and replace damaged, defective, or deficient items.
B. Contractor's Responsibilities:
1. Review Owner reviewed shop drawings, product data, and samples.
2. Receive and unload products at site; inspect for any discrepancies or damage and report damaged, defective, or deficient items to Owner.
3. Handle, store, install and finish products.
4. Repair or replace items damaged after receipt.
3.03 TRANSPORTATION AND HANDLING
A. Transport and handle products in accordance with manufacturer's instructions.
B. Prepare inspection statements to ensure that products comply with requirements, quantities are correct, and products are undamaged.
3.04 STORAGE AND PROTECTION
A. Store and protect products in accordance with manufacturer's instructions.
B. Store with seals and labels intact and legible.
C. Prevent contact with material that may cause corrosion, discoloration, or staining.

SECTION 01 7000 – EXECUTION REQUIREMENTS

- 1.01 QUALIFICATION REQUIREMENTS
A. For demolition work, employ a firm specializing in the type of work. Minimum of 5 years of experience.
B. For surveying, employ a land surveyor registered in Enter State Home Only here.
C. For engineering, employ a professional engineer of the discipline required for specific service on Project, licensed in Enter State Home Only here.
D. For design of temporary shoring and bracing, employ a Professional Engineer licensed in Enter State Home Only here.
1.02 PROJECT CONDITIONS
A. Comply with standards (During Construction requirements as outlined in the International Building Code, Chapter 13, edition as adopted at the project location).
B. For demolition work comply with ANSI A10.6.
C. Grade site to drain. Maintain excavations free of water. Provide, operate, and maintain pump-out systems.
D. Protect site from puddling or run-off during work.
E. Protect areas not undergoing alteration as specified for protection of installed work.
F. Ventilate enclosed areas to assist cure of materials, to dissipate humidity, and to prevent condensation of vapors, steam, or dust.
G. Dust Control: Execute work by methods to minimize raising dust from demolition or construction operations. Provide positive means to prevent air-borne dust from escaping into atmosphere. Provide dust-trap barriers between construction areas and areas adjoining to be occupied by Owner.
H. Pollution Control: Maintain and haul routes with governing authorities and Owner. Present erosion and sedimentation:
1. Minimize erosion of top soil exposed at one time.
2. Provide temporary measures such as berms, dikes, and drains, to manage water flow.
3. Construct fill and waste areas by selective placement to avoid erodible surface soils or dips.
I. Provide structural earthwork to detect evidence of erosion and sedimentation; promptly apply corrective measures.
J. Noise Control: Provide methods, means, and facilities to minimize noise produced by demolition or construction operations. Comply with local requirements for noise control.
K. Vibration Control: Provide methods, means, and facilities to prevent cracks from occurring or spreading in existing structures.
L. Pollution Control: Provide methods, means, and facilities to prevent contamination from rain water, and to minimize runoff from exchange of materials, toxic substances, and pollutants produced by demolition or construction operations.
1.03 COORDINATION
A. Coordinate scheduling, submittals, and work of the various sections of the Project Manual to ensure efficient and orderly sequence of installation of independent construction elements, with provisions for accommodating items installed later.
B. Notify affected utility companies and comply with their requirements.
C. Verify that utility requirements and characteristics of new operating equipment are compatible with building utilities. Coordinate work of various sections having independent responsibilities for installing, connecting to, and placing in service, such equipment.
D. Coordinate space requirements, supports, and installation of mechanical and electrical work that are indicated on drawings. Follow routing shown for pipes, ducts, and conduits, as closely as practicable; place runs parallel with lines of building. Utilize spaces efficiently to maximize accessibility for other installations, for maintenance, and for repairs.
E. In finished areas except as otherwise indicated, conceal pipes, ducts, and wiring within the construction. Coordinate locations of fixtures and outlets with finish elements.
F. Coordinate completion and clean-up of work of separate sections.
G. After Owner occupancy of premises, coordinate access to site for correction of defective work and work not in accordance with Contract Documents, to minimize impact on Owner's activities.
2.01 PATCHING MATERIALS
A. New Materials: As specified in product sections; match existing products and finish.
B. Provide new patching and address work.
3.01 EXAMINATION
A. Verify that existing site conditions and substrate surfaces are acceptable for installation. Start work upon acceptance of existing conditions.
B. Verify that existing substrate is capable of structural support or attachment of materials indicated.
C. Examine and verify specific conditions described in individual specification sections.
D. Test field measurements before confirming product orders or beginning fabrication.
E. Verify that utility services are available, of the correct characteristics, and of the correct locations.
F. Prior to Cutting: Examine existing conditions prior to commencing work, including quality level of the site prior to commencing work of the section.
G. After uncovering existing work, assess conditions affecting performance of work. Begin repair, cutting or patching means acceptance of existing conditions.
3.02 PREPARATION
A. Seal substrate surface prior to applying next material or substance.
B. Clean cracks or openings of substrate prior to applying next material.
C. Apply manufacturer required or recommended substrate primer, sealer, or other material specified in product sections.
3.03 PREINSTALLATION MEETINGS
A. When required in individual specification sections, convene a preinstallation meeting at the site prior to commencing work of the section.
B. Review attendance of parties directly affecting, or affected by, work of the section.
3.04 LAYING OUT THE WORK
A. Verify locations of survey control points prior to starting work.
B. Do not scale drawings. Re-establish locations from the architect.
C. Promptly notify Architect of any discrepancies discovered.

- D. Contractor shall locate and protect survey control and reference points.
E. Protect or control the location of starting site work; preserve permanent reference points during construction.
F. Replace dislocated survey control points based on original survey control. Make all corrections and adjustments prior to reentry into work to Architect.
G. Utilize recognized engineering survey practices.
H. Establish elevations, lines and levels. Locate and lay out by instrumentation and similar approved methods.
1. Site improvements including pavements; stakes for grading, fill and topsoil placement; utility locations; slopes, and invert elevations.
2. Grid or set for structures.
3. Building foundation, column locations, ground floor elevations.
3.05 GENERAL INSTALLATION REQUIREMENTS
A. In addition to compliance with regulatory requirements, conduct construction operations as specified in NFA 241, including applicable recommendations in Appendix A.
B. Install products as specified in individual sections, in accordance with manufacturer's instructions and recommendations, and so as to avoid waste due to unnecessary rework.
C. Make vertical elements plumb and horizontal elements level, unless otherwise indicated.
D. Install equipment and fittings plumb and level, neatly aligned with adjacent vertical and horizontal lines, unless otherwise indicated.
E. Make consistent transition on surfaces, with seamless transitions, unless otherwise indicated.
F. Make neat transitions between different surfaces, maintaining texture and appearance.
G. Do not install products that are defective, including warped, bowed, dented, chipped, cracked or broken members, and members with damaged finishes.
3.06 ALTERATIONS AND SELECTIVE DEMOLITION
A. Perform an engineering survey of building to determine whether demolition operations might result in structural deficiency or unplanned collapse of any portion of the structure.
B. Drawings showing existing construction and utilities are based on existing record drawings only.
1. Verify that construction and utility arrangements are as shown.
2. Report discrepancies to Architect before disturbing existing installation.
3. Beginning of alterations work constitutes acceptance of existing conditions. Any work which alterations are being conducted separated from other areas that are still occupied. Provide, erect, and maintain temporary draftstop barriers and construction shoring.
C. Maintain weatherproof building envelope except for interruptions required for replacement or modifications; take care to prevent water and humidity transfer.
1. Where openings in exterior enclosure exist, provide construction to make exterior enclosure watertight and as required to accomplish new work.
2. Insulate existing ducts or pipes that are exposed to outdoor ambient temperatures by alterations work.
3. Provide interior coating work on interior and as required to accomplish new work.
4. Remove retail walls, corroded metals, and deteriorated masonry and concrete, and maintain pump-out systems.
5. Remove items indicated on drawings.
6. Relocate items indicated on drawings.
7. Where new surface finishes are to be applied to existing work, perform: remove, patch, and prepare existing surfaces to receive new finish; remove existing finish if necessary for successful application of new finish.
8. Where new surface finishes are not specified or indicated, patch holes and damaged surfaces to match adjacent finished surfaces.
9. Services (including but not limited to HVAC, Plumbing, Fire Protection, Electrical, and Mechanical) and their systems shall be removed, relocated, and reinstalled to accommodate new construction.
10. Existing existing active systems that are to remain in operation; maintain access to equipment and operational components; if necessary, modify installation to allow access or provide access panel.
11. Where existing active systems or equipment are not active and Contract Documents require reactivation, put back into operational condition; repair supply, distribution, and equipment as required.
12. Where existing active systems serve occupied facilities that are to be replaced with new services, maintain existing systems in service until new systems are installed and ready for use.
13. Disable existing systems only to make switchovers and connections:
a. Minimize disruption of service.
b. Coordinate timing of service interruptions and shut-downs with the owner and affected occupants.
14. Coordinate timing of service interruptions and shut-downs with the owner and affected occupants.
15. Provide temporary connections to maintain existing systems in service.
16. Verify that abandoned services serve only abandoned facilities.
17. Remove abandoned pipe, ducts, conduits, and equipment, including those that are not installed, but that are not specified or indicated on drawings, otherwise stop cut and tag with identification; patch holes left by removal of materials and equipment not to remain in construction.
18. Protect existing work to remain.
1. Prevent movement of structure; provide shoring and bracing if necessary.
2. Perform cutting to accomplish relocations neatly and as specified for cutting new work.
3. Repair adjacent construction and finishes damaged during removal work.
4. Avoid cutting work to fit new work. Make as neat and smooth transition as possible.
1. Where existing finished surfaces are so cut so that a smooth transition with new work is not possible, terminate existing surface along a straight line at a natural line of division and make reasonable reinstallation to Architect.
2. Where removal of partitions or walls results in adjacent spaces becoming one, rework floors, walls, and ceilings to a smooth plane without breaks, steps, or bulheads.
3. Where a change of plane of 1/4 inch or more occurs in existing work, submit recommendation for providing a smooth transition for Architect review and request instructions.
1. Patching: Where the existing surface is not indicated to be refinished, patch to match the surface finish that existed prior to cutting. Where the surface is indicated to be refinished, patch so that the substrate is ready for the new finish.
2. Finish existing surfaces as indicated:
1. Where rooms or spaces are indicated to be refinished, refinish oil with existing surfaces to remain to the specified condition for each material, with a neat transition to adjacent work.
2. If mechanical or electrical work is exposed incidentally during the work, repair and refinish adjacent surfaces as specified by subcontract work.
3. Clean existing systems and equipment.
4. Remove demolition debris and abandoned items from alterations areas and dispose of off-site; do not burn or bury.
5. Comply with all other applicable requirements of this section.

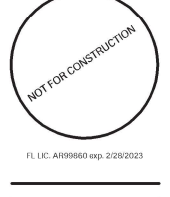
3.07 CUTTING AND PATCHING

- A. Perform accurate cutting and patching is necessary to:
1. Complete the work.
2. Fit products together to integrate with other work.
3. Protect openings for protection of mechanical, electrical, and other services.
4. Match work that has been cut to adjacent work.
5. Repair areas adjacent to cuts to required condition.
6. Repair new work damaged by subsequent work.
7. Remove samples of installed work for testing when requested.
8. Remove and replace defective and non-conforming work.
9. Replace work by methods that avoid damage to other work and that will provide appropriate surfaces to receive patching and finishing. In existing work, minimize damage and restore to original condition.
10. Employ skilled and experienced installer to perform cutting for weather exposed exterior and interior openings.
11. Remove and replace defective and non-conforming work.
12. Patch work by methods that avoid damage to other work and that will provide appropriate surfaces to receive patching and finishing. In existing work, minimize damage and restore to original condition.
13. Employ skilled and experienced installer to perform cutting for weather exposed exterior and interior openings.
14. Examine areas to be cut or core drilled for presence of concealed utilities and mechanical installation. Verify absence of mechanical, reinforcing steel and post-tensioning cables. Utilize X-ray equipment where necessary.
15. Cut rigid materials using masonry saw or core drill.
16. Restore work with new products in accordance with requirements of Contract Documents.
17. Fit work air tight to pipes, sleeves, ducts, conduits, and other penetrations through surfaces.

- H. At penetrations of fire rated walls, partitions, ceiling, or floor construction, concrete, or metal wall studs with fire rated material to maintain fire rating.
1. Patching:
1. Finish patched surfaces to match finish that existed prior to patching. On continuous surfaces, refinish to nearest intersection or natural break. For an expansion, refinish entire unit.
2. Match color, texture, and appearance.
3. Repair patched surfaces that are damaged, lifted, discolored, or showing other imperfections due to patching work. If defects are due to condition of substrate repair substrate prior to reapplying finish.
4. When finish cannot be refinished, refinish entire surface to nearest intersections.
3.08 PROTECTIVE CLEANING
A. Maintain areas free of waste materials, debris, and rubbish. Maintain site in a clean and orderly condition.
B. Remove grout and rubbish from pipe chases, plenums, attics, crawl spaces, and other closed or remote spaces, prior to enclosing the space.
C. Brown and vacuum clean interior areas prior to start of surface finishing, and continue cleaning to eliminate dust.
D. Collect and remove waste materials, debris, and trash/rubbish from site periodically and dispose off-site; do not burn or bury.
3.09 PROTECTION OF INSTALLED WORK
A. Protect installed work from damage by construction operations.
B. Provide temporary and removable protection for installed products. Control activity in immediate work area to prevent damage.
C. Provide protective coverings at walls, projections, beams, sills, and soffits of openings.
D. Protect finished floors, stairs, and other surfaces from traffic, dirt, wet, damage, or movement of heavy objects, by protecting with durable sheet materials.
E. Prohibit traffic or storage upon waterproofed or roofed surfaces. If traffic activity is necessary, obtain recommendations for protection from waterproofing contractor, and provide appropriate control sequences, and for conditions that may cause damage.
F. Remove protective coverings when no longer needed; reuse or recycle plastic covering if possible.
3.10 SYSTEM STARTUP
A. Coordinate schedule for start-up of various equipment and systems.
B. Verify that each piece of equipment or system has been checked for proper operation and that all alterations and related control sequences, and for conditions that may cause damage.
C. Verify that control readings, and specified electrical characteristics agree with those required by the equipment or system manufacturer.
D. Verify that wiring and support components for equipment are complete and installed.
E. Execute start-up under supervision of applicable Contractor personnel and under supervision of applicable Owner personnel with manufacturers' instructions.
3.11 DEMONSTRATION AND INSTRUCTION
A. Demonstrate operation and maintenance of products to Owner's personnel prior to start-up.
B. Demonstrate start-up, operation, control, adjustment, trouble-shooting, servicing, maintenance, and shutdown of each item of equipment at scheduled time, in Owner's location.
C. For equipment or systems requiring seasonal operation, perform demonstration and instruction for each season.
D. Provide a qualified person who is knowledgeable about the Project to perform demonstration and instruction of Owner personnel.
E. Issue operation and maintenance instructions and instruction. Review contents of manual with Owner's personnel in detail to explain all aspects of operation and maintenance.
F. Prepare and issue seasonal data in operations and maintenance manuals when needed for additional data becomes apparent during instruction.
3.12 ADJUSTING
A. Adjust operating products and equipment to ensure smooth and unobstructed operation.
3.13 FINAL CLEANING
A. Execute final cleaning prior to Substantial Completion. Clean areas to be occupied by Owner prior to final completion before Owner occupancy.
B. Use cleaning materials that are non-toxic/non-caustic.
C. Clean interior and exterior glass, surfaces exposed to view; remove temporary labels, signs and other attachments; polish transparent and glossy surfaces, vacuum carpeted and soft surfaces.
D. Remove all labels that are not permanent. Do not paint or otherwise cover fire rated surfaces or equipment on mechanical and electrical equipment.
E. Clean equipment and fixtures to a sanitary condition with cleaning materials appropriate to the material and material being cleaned.
F. Remove films of greasy substances and electrical equipment.
G. Clean debris from roofs, gutters, downspouts, and drainage systems.
H. Clean site; sweep paved areas; rake clean landscaped surfaces.
I. Remove waste, surplus materials, trash/rubbish, and construction facilities from the site; dispose of in legal manner; do not burn or bury.
3.14 CLOSURE PROCEDURES
A. In addition to the requirements of AA A201, General Conditions of the Contract for Construction, comply with that required by governing or other authorities. Provide copies to Owner.
B. Comply with requirements of Section 01780, Closeout Submittals.
3.15 MAINTENANCE
A. Notify Architect when work is considered ready for Substantial Completion.
4. Submit written certification that Contract Documents have been reviewed, work has been inspected, and that work is complete in accordance with Contract Documents and ready for final payment.
5. Correct items of work listed in executed Certificates of Substantial Completion and comply with requirements for access to Owner-occupied areas.
6. Complete items of work determined by final inspection.
3.15 MAINTENANCE
A. Provide service and maintenance of components indicated in specification sections.
B. Maintenance Period: As indicated in specification sections or, if not indicated, not less than one year, or the Date of Substantial Completion or the term of the specified warranty, whichever is longer.
C. Furnish service and maintenance of components indicated in specification sections.
D. Examine system components at a frequency consistent with reliable operation.
E. Clean, adjust, and lubricate as required.
F. Include systematic examination, adjustment, and lubrication of components.
G. Repair and maintain work in accordance with requirements of the manufacturer of the original component.
H. Maintenance service shall not be assigned or transferred to any agent or subcontractor without prior written consent of the Owner.



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MECHANICAL ENGINEER
ELECTRICAL ENGINEER
PLUMBING ENGINEER



FL LIC: A908669 exp. 2/28/2023

FIRE STATION 24 EXPANSION
OVERSEAS HIGHWAY & EAST DRIVE
KEY LARGO, FL 33037
KEY LARGO FIRE RESCUE & EMS
OVERSEAS HWY & EAST DR., KEY LARGO FL 33037

SHEET TITLE: SPECIFICATIONS

Table with columns: ORIGINAL SIZE: 24 X 36, PROJECT NUMBER: 2103, DRAWN BY: PDB, CHECKED BY: PDB, CREATION DATE: , DATE: , ISSUED FOR: , DATE: , REVISION: , DATE: , SHEET NUMBER: G2.0.0

SHEET NUMBER: G2.0.0
PROJECT: FIRE STATION 24
2021 LITTLE RED ROOSTER LLC

SECTION 07 2900 - WEATHER BARRIERS

1.01 DEFINITIONS

- A. Weather Barrier: Assemblies that form water-resistant barriers and air barriers.
1. The Weather Barrier shall not be a vapor retarder.

1.02 FIELD CONDITIONS

- A. Maintain temperature and humidity recommended by the materials manufacturers before, during and after installation.

2.01 WEATHER BARRIER ASSEMBLIES

- A. Weather Barrier: Provide an exterior walls under exterior cladding and where indicated in other sections.
1. Under simulated stone veneer, thin brick, ceramic tile, and Portland cement stucco, use weather barrier coating.
2. Under siding, use mechanically fastened, weather barrier sheath.
3. On outside surface of inside wythe of exterior masonry cavity walls use air barrier coating.

2.02 WEATHER BARRIER MATERIALS

- A. Weather Barrier Sheet: Mechanically Fastened:
1. Air Permeance: 0.004 cubic feet per square foot, maximum, when tested in accordance with ASTM D2178.
2. Water Vapor Permeance: 10 perms, minimum, when tested in accordance with ASTM E96/E96M Procedure A (desiccant method).
3. Ultraviolet and Weathering Resistance: Approved in writing by manufacturer for minimum of 6 months weather exposure.
4. Surface Burning Characteristics: Flame spread index of 25 or less, smoke developed index of 50 or less, when tested in accordance with ASTM E84.
5. Water Resistance: Comply with applicable water-resistance requirements of ICC-ES Acceptance Criteria AC308.
B. Weather Barrier Coating: Cold-fluid-applied, vapor permeable, elastomeric waterproofing membrane.
1. Dry Film Thickness: 10 mils (0.010 inch), minimum.
2. Air Permeance: 0.004 cubic feet per minute per square foot, maximum, when tested in accordance with ASTM E2178.
3. Water Vapor Permeance: 10 perms, minimum, when tested in accordance with ASTM E96/E96M.
4. Ultraviolet and Weathering Resistance: Approved in writing by manufacturer for minimum of 4 months weather exposure.

2.03 SEALANTS

- A. Sealant: certified as compatible with membrane materials by the membrane manufacturer.
B. Primers, Cleaners, and Other Sealing Materials: As recommended by sealant manufacturer, appropriate to application, and compatible with adhesive materials.
2.04 ADHESIVES:
A. Mastic Adhesive: Compatible with sheet seal and substrate, thick mastic of uniform knife grade consistency.
2.05 ACCESSORIES

- A. Flexible Flashing: Self-adhesive seal flashing complying with ASTM D1970, except slip resistance requirement is waived if not installed on a roof.
B. Fasteners: Type as recommended by the manufacturer for substrate and construction.
C. Tapes: Product manufactured by the membrane manufacturer.
D. Thinners and Cleaners: As recommended by material manufacturer.

3.01 EXAMINATION & PREPARATION

- A. Verify that surfaces and conditions are ready to accept the work of this section.
1. Remove projections, protruding fasteners, and loose or foreign matter that might interfere with proper installation.
2. Clean and prime substrate surfaces to receive adhesives in accordance with manufacturer's instructions.

3.02 INSTALLATION

- A. Install materials in accordance with manufacturer's instructions.
B. Weather Barriers: Install continuous water-resistant barrier and air barrier over surfaces indicated, with sealed seams and with sealed joints to adjacent surfaces.
C. Apply sealants and adhesives within recommended application temperature ranges. Consult manufacturer if temperature is out of this range.
D. Mechanically Fastened Sheets - On Exterior:
1. Install sheets single-to-batten to shed water, with seams generally horizontal.
2. Overlap seams as recommended by manufacturer but at least 6 inches.
3. Overlap at outside and inside corners as recommended by manufacturer but at least 12 inches.
4. Attach to framing construction with fasteners extending through sheathing into framing. Space fasteners at 12 to 18 inches on center along each framing member supporting sheathing, unless otherwise indicated in manufacturer's installation instructions.
5. Seal seams, laps, penetrations, tears, and cuts with self-adhesive tape.
6. Where stud framing rests on concrete or masonry, extend lower edge of sheet at least 4 inches below bottom of framing and seal with sealant.
7. Install wall fastenings under weather barrier.
C. Joints:
1. Prepare substrate in manner recommended by coating manufacturer: treat joints in substrate and between dissimilar materials as recommended by manufacturer.
2. Where exterior masonry veneer is to be installed, install masonry anchors before installing weather barrier over masonry; seal around anchors air tight.
3. Use flashing to seal to adjacent construction and to bridge joints.
F. Openings and Penetrations in Exterior Weather Barriers:
1. Install flashing over sills, covering entire sill frame member, extending at least 5 inches onto weather barrier and at least 6 inches up jambs; mechanically fasten detached edges.
2. At openings to be filled with frames having nailing flanges, seal head and jambs flanges using a continuous bead of sealant compressed by flange and cover flanges with at least 4 inches wide, do not seal sill flange.
3. At openings to be filled with non-flanged frames, seal weather barrier to all sides of opening framing, using flashing at least 8 inches wide, covering entire depth of framing.
4. At head of openings, install flashing under weather barrier extending at least 2 inches beyond face of jambs; seal weather barrier to flashing.
5. At interior face of openings, seal gap between window/frame and rough framing, using joint sealant over backup rod.
6. Service and Other Penetrations: Form flashing around penetrating item and seal to weather barrier surface.

3.03 EXAMINATION & PREPARATION

- A. Verify that surfaces and conditions are ready to accept the work of this section.
1. Remove projections, protruding fasteners, and loose or foreign matter that might interfere with proper installation.
2. Clean and prime substrate surfaces to receive adhesives in accordance with manufacturer's instructions.

3.04 INSTALLATION

- A. Install materials in accordance with manufacturer's instructions.
B. Weather Barriers: Install continuous water-resistant barrier and air barrier over surfaces indicated, with sealed seams and with sealed joints to adjacent surfaces.
C. Apply sealants and adhesives within recommended application temperature ranges. Consult manufacturer if temperature is out of this range.
D. Mechanically Fastened Sheets - On Exterior:
1. Install sheets single-to-batten to shed water, with seams generally horizontal.
2. Overlap seams as recommended by manufacturer but at least 6 inches.
3. Overlap at outside and inside corners as recommended by manufacturer but at least 12 inches.
4. Attach to framing construction with fasteners extending through sheathing into framing. Space fasteners at 12 to 18 inches on center along each framing member supporting sheathing, unless otherwise indicated in manufacturer's installation instructions.
5. Seal seams, laps, penetrations, tears, and cuts with self-adhesive tape.
6. Where stud framing rests on concrete or masonry, extend lower edge of sheet at least 4 inches below bottom of framing and seal with sealant.
7. Install wall fastenings under weather barrier.
C. Joints:
1. Prepare substrate in manner recommended by coating manufacturer: treat joints in substrate and between dissimilar materials as recommended by manufacturer.
2. Where exterior masonry veneer is to be installed, install masonry anchors before installing weather barrier over masonry; seal around anchors air tight.
3. Use flashing to seal to adjacent construction and to bridge joints.
F. Openings and Penetrations in Exterior Weather Barriers:
1. Install flashing over sills, covering entire sill frame member, extending at least 5 inches onto weather barrier and at least 6 inches up jambs; mechanically fasten detached edges.
2. At openings to be filled with frames having nailing flanges, seal head and jambs flanges using a continuous bead of sealant compressed by flange and cover flanges with at least 4 inches wide, do not seal sill flange.
3. At openings to be filled with non-flanged frames, seal weather barrier to all sides of opening framing, using flashing at least 8 inches wide, covering entire depth of framing.
4. At head of openings, install flashing under weather barrier extending at least 2 inches beyond face of jambs; seal weather barrier to flashing.
5. At interior face of openings, seal gap between window/frame and rough framing, using joint sealant over backup rod.
6. Service and Other Penetrations: Form flashing around penetrating item and seal to weather barrier surface.

SECTION 07 4213.23 - METAL COMPOSITE MATERIAL WALL PANELS

1.01 SUBMITTALS

- A. Product Data - MCM Sheets: Manufacturer's data sheets on each product to be used, including thickness, physical characteristics, and finish, and:
1. Finish manufacturer's data sheet showing physical and performance characteristics.
B. Shop Drawings: Show layout and elevations, dimensions and thickness of panels, connections, details and location of joints, sealants and gaskets, method of anchorage, number of anchors, supports, reinforcement, and fasteners, and accessories.
1. Indicate substrates and adjacent work with which the wall system must be coordinated.
2. Include large-scale details of anchorage and connecting elements.
3. Include large-scale details of anchorage, exploded or isometric diagrams to fully explain flashing at a scale of not less than 1-1/2 inches per 12 inches.
C. Verification Samples: For each finish product specified, minimum size 12 inches square, representing actual product in color and texture.
1.02 QUALITY ASSURANCE
A. Field Measurements: Verify actual dimensions by field measurement before fabrication; show record measurements on shop drawings.
B. Perform work in accordance with the applicable building code.
C. Wall System Manufacturer Qualifications: Company specializing in manufacturing products specified in this section with not less than five years of experience. Approved by MCM sheet manufacturer.
D. Installer Qualifications: Company specializing in performing work of the type specified in this section with minimum 2 years of experience. Approved by wall system manufacturer.
1.03 DELIVERY, STORAGE, AND HANDLING

- A. Deliver products in manufacturer's original, unopened, undamaged containers with identification labels intact.
B. Store products protected from exposure to harmful weather conditions and all temperatures and conditions contrary to manufacturer's recommendations.

1.04 WARRANTY

- A. Wall System Warranty: Provide joint written warranty by manufacturer and installer, spanning 32 correct details of installation within a two year period after Date of Substantial Completion.
B. MCM Sheet Manufacturer's Warranty: Provide manufacturer's written warranty stating that the finish will perform as follows for minimum of 20 years:
1. Chalking: No more than that represented by a NaBr rating based on ASTM D2211.
2. Color Retention: No fading or color change in excess of 5 Hunter color difference units, calculated in accordance with ASTM D2244.
3. Gloss Retention: Minimum of 30 percent gloss retention, when tested in accordance with ASTM D523.

2.01 WALL PANEL SYSTEM

- A. Wall Panel System: Metal panels, fasteners, and anchors designed to be supported by framing or other substrate provided by others; provide installed panel system capable of maintaining specified performance without defects, damage or failure.
1. Provide structural design by or under direct supervision of a Structural Engineer licensed in Enter State Name Only Here.
2. Provide panel joining and weather-sealing using a "wet," sealant sealed system.
3. Anchor panels to supporting framing without exposed fasteners.
B. Performance Requirements:
1. Thermal Movement: Provide for free and noiseless vertical and horizontal thermal movement due to expansion and contraction under normal temperature range of minus 20 degrees F to 180 degrees F without buckling, splitting of joints, undue stress on fasteners, or other detrimental effects, due to ambient temperature at time of fabrication, assembly, and erection procedures.
2. Wind Performance: Provide system that will perform without permanent deformation or failures of structural members under the following conditions:
a. Refer to structural drawings for wind load requirements.
b. Maximum deflection of perimeter framing member of L/175, normal to plane of the wall, maximum deflection of individual panels of L/60.
c. Maximum anchor deflection in any direction of 1/16 inch at connector joints of framing members to anchors.
3. Air Infiltration: 0.06 cfm/sq ft of wall area, maximum, when tested at 1.57 psf in accordance with ASTM E283.
4. Water Penetration: No water penetration under static pressure when tested in accordance with ASTM E331 at a minimum of 15 minutes of inward static design load, 6.24 psf minimum, after 15 minutes:
a. Water penetration is defined as the appearance of uncontrolled water on the interior face of the wall.
b. Design to drain leakage and condensation to the exterior face of the wall.
C. Joints: One inch deep joint formed of metal composite material sealed by routing back edges of sheet, removing corners, and finishing edges.
1. Reinforce corners with riveted aluminum angles.
2. Provide concealed attachment to supporting structure by adhering attachment members to back of panel; attachment members may also function as stiffeners.
3. Maintain maximum panel bow of 0.8 percent of panel dimension in width and length; provide stiffeners of sufficient size and strength to maintain panel flatness without showing visible stresses or real-time bowing on panel face.
4. Secure members to back face of panels using structural silicone sealant approved by MCM sheet manufacturer.
5. Metallic Finishes: Provide consistent grain of MCM sheet; specifically, do not rotate sheet purely to avoid waste.
6. Fabricate panels under controlled shop conditions.
7. Where final dimensions cannot be established by field measurement before commencement of manufacturing, make allowance for field adjustments without requiring field fabrication of panels.
8. Fabricate as indicated on drawings and as recommended by MCM sheet manufacturer.
a. Make panel lines, breaks, curves and angles sharp and true.
b. Keep plane surfaces free from war or buckle.
c. Keep panel surfaces free of scratches or marks caused during fabrication.
9. Provide joint details providing a water-tight and structurally sound wall panel system that allows no uncontrolled water penetration on inside face of panel system.
2.02 MATERIALS
A. Metal Composite Material (MCM) Sheet: Two sheets of aluminum sandwiching a solid core of extruded thermoplastic resin formed in a continuous process with no sheets or adhesives between dissimilar materials; core material free of voids and spacing; no foamed insulation material content.
1. Overall Sheet Thickness: 4 mm.
2. Face Sheet Thickness: 0.019 inches, minimum.
3. Alloy: Manufacturer's standard, selected for best appearance and finish durability.
4. Bond and Peel Strength: No adhesive failure of the bond between the core and the skin nor cohesive failure of the core itself below 2242 inch-pounds/inch with no degradation in bond performance, when tested in accordance with ASTM D1781, simulating resistance to panel delamination, after 8 hours of submersion in boiling water and after 21 days of immersion in water at 70 degrees F.
5. Surface Burning Characteristics: Flame spread index of 25, maximum; smoke developed index of 450, maximum; when tested in accordance with ASTM E84.
6. Flammability: Self-ignition temperature of 650 degrees F or greater, when tested in accordance with ASTM D1929.
7. Factory Finish: Two or three coat fluoropolymer resin coating, approved by the coating manufacturer for the length of warranty specified for the project, and applied by coil manufacturing facility that specializes in coil applied finishes.
a. Coating Finish: Poss ASTM D4145 minimum T1-band, at time of manufacturing.
b. Long-Term Performance: Not less than that specified under WARRANTY in Part 1.
8. Color/Fixture: As indicated on drawings.
B. Metal Framing Members: Include all sub-girts, zinc-coils, base and sill angles and channels, hat-shaped and rigid channels, and framing channels required for complete installation.
C. Provide material strength, dimensions, configuration as required to meet the applied loads and in compliance with applicable building code.
3. Sheet Steel Components: ASTM A653/A653M galvanized to 90/2775 or zinc-iron alloy-coated to A660/27180; or ASTM A792/A792M aluminum-zinc coated to A260/A260M.
11. Stainless Steel Sheet Components: ASTM A480/A480M.
11. Aluminum Components: ASTM B209 or B 221.
C. Flashing: Sheet aluminum; 0.040 inch thick, minimum; finish and color to match MCM sheet.
D. Anchors, Clips and Accessories: Use one of the following:
1. Stainless steel complying with ASTM A480/A480M, ASTM A376 or ASTM A886.
2. Steel complying with ASTM A36/A36M and hot-dipped galvanized to ASTM A153/A153M.
3. Steel complying with ASTM A36/A36M and hot-dipped galvanized to ASTM A153/A153M Coating Grade 75.
E. Fasteners:
1. Screws: Self-drilling or self-tapping type 410 stainless steel or zinc-ally steel hex washer heads, with EPDM or PVC washer under heads of fasteners bearing on weather side of metal wall panels.
2. Bolts: Stainless steel.
3. Fasteners for Flashing and Trim: Blind fasteners of high-strength aluminum or stainless steel.
F. Blumiseal Coating: Cold-applied asphalt mastic, noncorrosive compound free of asbestos, sulfur, and other deleterious impurities; 15 ml dry film thickness per coat.
G. Joint Sealant: As specified in Section 07900, subject to MCM sheet manufacturer's approval.
H. Provide panel system manufacturer's and installer's standard corrosion resistant accessories, including fasteners, clips, anchorage devices and attachments.

3.01 EXAMINATION

- A. Verify dimensions, tolerances, and interfaces with other work.
B. Verify substrate on-site to determine that conditions are acceptable for product installation in accordance with manufacturer's written instructions.
C. Protect adjacent work areas and finish surfaces from damage during installation.
3.02 PREPARATION
A. Comply with instructions and recommendations of MCM sheet manufacturer and wall system manufacturer, as well as with approved shop drawings.
B. MCM Sheet Manufacturer's Qualifications: Company specializing in manufacturing products specified in this section with not less than five years of experience. Approved by MCM sheet manufacturer.
3.03 EXAMINATION & PREPARATION
A. Verify that surfaces and conditions are ready to accept the work of this section.
1. Remove projections, protruding fasteners, and loose or foreign matter that might interfere with proper installation.
2. Clean and prime substrate surfaces to receive adhesives in accordance with manufacturer's instructions.

- D. Locate joints over supports. Lap panel ends minimum 2 inches.
E. Provide expansion joints where indicated.
F. Use concealed fasteners unless otherwise approved by Architect.
G. Seal and gize gaskets to prevent weather penetration. Maintain neat appearance.
3.03 TOLERANCES
A. Maximum Offset From True Alignment Between Adjacent Members Butting or In Line: 1/16 inch.
B. Maximum Variation From Plane or Location Indicated on Drawings: 1/4 inch.
3.04 CLEANING
A. Remove site cuttings from finish surfaces.
B. Clean and wash prefinished surfaces with mild soap and water; rinse with clean water.
3.05 EXAMINATION & PREPARATION
A. Verify that surfaces and conditions are ready to accept the work of this section.
1. Remove projections, protruding fasteners, and loose or foreign matter that might interfere with proper installation.
2. Clean and prime substrate surfaces to receive adhesives in accordance with manufacturer's instructions.

SECTION 07 4213.13 - METAL WALL PANELS

1.01 DESIGN REQUIREMENTS

- A. Design, fabricate, handle, and install panels to minimize air coning. Excessive air coning as determined by the Architect may be grounds for rejection.
1.02 SUBMITTALS
A. Shop Drawings: Indicate dimensions, layout, joints, construction details, methods of anchorage.
B. Samples: Submit two samples of wall panel and soffit panel, 12 inch by 12 inch in size illustrating finish, color, sheen, and texture.
1.03 QUALITY ASSURANCE
A. Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum 5 years of experience.
B. Installer Qualifications: Company specializing in performing the work of this section with minimum 5 years of experience.
1.04 DELIVERY, STORAGE, AND HANDLING
A. Store prefabricated material off ground and protected from weather. Prevent bending, twisting, or distortion, and provide ventilation to stored materials. Stack metal sheets to ensure drainage.
B. Handle contact with materials that may cause discoloration or staining of products.

2.01 MANUFACTURED METAL PANELS

- A. Wall Panel System: Factory fabricated prefabricated metal panel system, site assembled.
1. Design and size components to withstand dead and live loads caused by positive and negative wind pressure acting normal to plane of wall.
2. Maximum Allowable Deflection of Panel: 1/90 of span.
3. Movement: Accommodate movement within system without damage to components or deterioration of seals, movement within system; movement of panel system and perimeter components when subject to seasonal temperature cycling, dynamic loading and release of loads; and deflection of individual support framing.
4. Drainage: Provide positive drainage to exterior for moisture entering or condensation occurring within panel system.
5. Fabrication: Formed true to shape, accurate in size, square, and free from distortion or defects; pieces of longest practical lengths.
6. Corners: Factory-fabricated in one continuous piece with minimum 18 inch returns.
7. Provide continuity of weather barrier seal at building enclosure elements.
8. Exterior Finish: Panel manufacturer's standard polyethylene fluoride (PVDF) coating, top coat over epoxy primer.
9. Exterior Panel Back Coating: Panel manufacturer's standard polyester wash coat.
B. Exterior Panels:
1. Profile and Color: As indicated on drawings.
2. Material: Precoated steel sheet, minimum 0.032 inch thick.
C. Soffit Panels:
1. Profile and Color: As indicated on drawings.
2. Material: Precoated aluminum sheet, minimum 0.032 inch thick.
D. Internal and Exterior Corners: Same material, thickness, and finish as exterior sheets; profile to suit system; broke formed to required angles.
E. Expansion Joints: Same material, thickness and finish as exterior sheets; manufacturer's standard broke formed type, profile to suit system.
F. Trim, Closure Plates, Caps, Flashings, and Fittings: Same material, thickness and finish as exterior sheets; broke formed to required profiles.
G. Anchors: Stainless steel.
2.02 MATERIALS
A. Precoated Steel Sheet: Aluminum-zinc alloy-coated steel sheet, ASTM A792/A792M, Commercial Steel (CS) or Forming Steel (FS), with A250/A250M coating; continuous-coil-coated on exposed surfaces with specified finish coating on non-panel back with specified panel back coating.
B. Precoated Aluminum Sheet: ASTM B209 (ASTM B209M), 3105 alloy, O temper, smooth surface texture; continuous-coil-coated on exposed surfaces with specified finish coating and on panel back with specified panel back coating.
2.03 ACCESSORIES
A. Gaskets: Manufacturer's standard type suitable for use with system, permanently resistant, ultraviolet and ozone resistant.
B. Sealants: Manufacturer's standard type suitable for use with installation of system; non-staining; color: To be selected by Architect.
C. Fasteners: Manufacturer's standard type to suit application; with soft neoprene washers, stainless steel.
D. Field Touch-up Points: As recommended by panel manufacturer.
E. Blumiseal Joint: Asphalt base.

2.02 MATERIALS

- A. Precoated Steel Sheet: Aluminum-zinc alloy-coated steel sheet, ASTM A792/A792M, Commercial Steel (CS) or Forming Steel (FS), with A250/A250M coating; continuous-coil-coated on exposed surfaces with specified finish coating on non-panel back with specified panel back coating.
B. Precoated Aluminum Sheet: ASTM B209 (ASTM B209M), 3105 alloy, O temper, smooth surface texture; continuous-coil-coated on exposed surfaces with specified finish coating and on panel back with specified panel back coating.
2.03 ACCESSORIES
A. Gaskets: Manufacturer's standard type suitable for use with system, permanently resistant, ultraviolet and ozone resistant.
B. Sealants: Manufacturer's standard type suitable for use with installation of system; non-staining; color: To be selected by Architect.
C. Fasteners: Manufacturer's standard type to suit application; with soft neoprene washers, stainless steel.
D. Field Touch-up Points: As recommended by panel manufacturer.
E. Blumiseal Joint: Asphalt base.

3.01 EXAMINATION

- A. Verify that building framing members are ready to receive panels.
B. Verify that weather barrier has been installed over substrate completely and correctly.
3.02 INSTALLATION
A. Install panels on walls and soffits in accordance with manufacturer's instructions.
B. Protect surfaces in contact with cementitious materials and dissimilar materials from weathering system joint. Allow to dry prior to installation of weathering system joint.
C. Fasten panels to structural supports; aligned, level, and plumb.

D. Locate joints over supports. Lap panel ends minimum 2 inches.

- E. Provide expansion joints where indicated.
F. Use concealed fasteners unless otherwise approved by Architect.
G. Seal and gize gaskets to prevent weather penetration. Maintain neat appearance.
3.03 TOLERANCES
A. Maximum Offset From True Alignment Between Adjacent Members Butting or In Line: 1/16 inch.
B. Maximum Variation From Plane or Location Indicated on Drawings: 1/4 inch.
3.04 CLEANING
A. Remove site cuttings from finish surfaces.
B. Clean and wash prefinished surfaces with mild soap and water; rinse with clean water.

- 3.05 EXAMINATION & PREPARATION
A. Verify that surfaces and conditions are ready to accept the work of this section.
1. Remove projections, protruding fasteners, and loose or foreign matter that might interfere with proper installation.
2. Clean and prime substrate surfaces to receive adhesives in accordance with manufacturer's instructions.
D. Locate joints over supports. Lap panel ends minimum 2 inches.
E. Provide expansion joints where indicated.
F. Use concealed fasteners unless otherwise approved by Architect.
G. Seal and gize gaskets to prevent weather penetration. Maintain neat appearance.
3.03 TOLERANCES
A. Maximum Offset From True Alignment Between Adjacent Members Butting or In Line: 1/16 inch.
B. Maximum Variation From Plane or Location Indicated on Drawings: 1/4 inch.
3.04 CLEANING
A. Remove site cuttings from finish surfaces.
B. Clean and wash prefinished surfaces with mild soap and water; rinse with clean water.

3.05 EXAMINATION & PREPARATION

- A. Verify that surfaces and conditions are ready to accept the work of this section.
1. Remove projections, protruding fasteners, and loose or foreign matter that might interfere with proper installation.
2. Clean and prime substrate surfaces to receive adhesives in accordance with manufacturer's instructions.

3.06 CLEANING

- A. Remove site cuttings from finish surfaces.
B. Clean and wash prefinished surfaces with mild soap and water; rinse with clean water.

3.07 EXAMINATION & PREPARATION

- A. Verify that surfaces and conditions are ready to accept the work of this section.
1. Remove projections, protruding fasteners, and loose or foreign matter that might interfere with proper installation.
2. Clean and prime substrate surfaces to receive adhesives in accordance with manufacturer's instructions.

3.08 CLEANING

- A. Remove site cuttings from finish surfaces.
B. Clean and wash prefinished surfaces with mild soap and water; rinse with clean water.

3.09 EXAMINATION & PREPARATION

- A. Verify that surfaces and conditions are ready to accept the work of this section.
1. Remove projections, protruding fasteners, and loose or foreign matter that might interfere with proper installation.
2. Clean and prime substrate surfaces to receive adhesives in accordance with manufacturer's instructions.

3.10 CLEANING

- A. Remove site cuttings from finish surfaces.
B. Clean and wash prefinished surfaces with mild soap and water; rinse with clean water.

3.11 EXAMINATION & PREPARATION

- A. Verify that surfaces and conditions are ready to accept the work of this section.
1. Remove projections, protruding fasteners, and loose or foreign matter that might interfere with proper installation.
2. Clean and prime substrate surfaces to receive adhesives in accordance with manufacturer's instructions.

3.12 CLEANING

- A. Remove site cuttings from finish surfaces.
B. Clean and wash prefinished surfaces with mild soap and water; rinse with clean water.

3.13 EXAMINATION & PREPARATION

- A. Verify that surfaces and conditions are ready to accept the work of this section.
1. Remove projections, protruding fasteners, and loose or foreign matter that might interfere with proper installation.
2. Clean and prime substrate surfaces to receive adhesives in accordance with manufacturer's instructions.

3.14 CLEANING

- A. Remove site cuttings from finish surfaces.
B. Clean and wash prefinished surfaces with mild soap and water; rinse with clean water.

3.15 EXAMINATION & PREPARATION

- A. Verify that surfaces and conditions are ready to accept the work of this section.
1. Remove projections, protruding fasteners, and loose or foreign matter that might interfere with proper installation.
2. Clean and prime substrate surfaces to receive adhesives in accordance with manufacturer's instructions.

3.16 CLEANING

- A. Remove site cuttings from finish surfaces.
B. Clean and wash prefinished surfaces with mild soap and water; rinse with clean water.

3.17 EXAMINATION & PREPARATION

- A. Verify that surfaces and conditions are ready to accept the work of this section.
1. Remove projections, protruding fasteners, and loose or foreign matter that might interfere with proper installation.
2. Clean and prime substrate surfaces to receive adhesives in accordance with manufacturer's instructions.

LITTLE RED ROOSTER
Your Vision • Our Passion
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FL LIC: AR98660 exp 2/28/2023

FIRE STATION 24 EXPANSION
OVERSEAS HIGHWAY & EAST DRIVE
KEY LARGO, FL 33037
KEY LARGO FIRE RESCUE & EMS
OVERSEAS HWY & EAST DR., KEY LARGO, FL 33037

SHEET TITLE:
SPECIFICATIONS

ORIGINAL SIZE: PROJECT NUMBER:
24 X 36 2103
DRAWN BY: CHECKED BY:
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Table with columns CREATION DATE, DATE, ISSUED FOR, DATE

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2021 LITTLE RED ROOSTER LLC

SECTION 07_5423 — THERMOPLASTIC MEMBRANE ROOFING

- 1.01 ADMINISTRATIVE REQUIREMENTS**
- A. **Preinstallation Meeting:** Convene one week before starting work of this section, to coordinate the following:
 - 1. Prepare preparation and installation procedures and coordinating and scheduling required with related work.
- 1.02 SUBMITTALS**
- A. **Product Data:** Provide data indicating membrane materials, flashing materials, insulation, vapor retarder, surfacing, and fasteners.
 - B. **Shop Drawings:** indicate joint or termination detail conditions, conditions of interface with other materials, and paver layout.
- 1.03 QUALITY ASSURANCE**
- A. **Manufacturer Qualifications:** Company specializing in manufacturing the products specified in this section with minimum five years of experience.
 - B. **Installer Qualifications:** Company specializing in performing the work of this section with minimum 5 years experience and approval by membrane manufacturer.
- 1.04 WARRANTY**
- A. **System Warranty:** Manufacturer's standard form, no dollar limit (NOL), in which manufacturer agrees to repair or replace components of roofing system that fail in materials or workmanship within specified warranty period.
 - 1. Warranty Term: 15 years.
 - 2. For repair and replacement include costs of both material and labor in warranty.
 - 3. Warranty includes roofing membrane, base flashings, roofing membrane accessories, roof insulation, fasteners, cover boards, walkway products, and other components of the roofing system.

- 2.01 ROOFING**
- A. **Thermoplastic Membrane Roofing:** One ply membrane, mechanically fastened, over insulation.
 - 1. **Roof Covering Requirements:**
 - A. Roof Assembly External Fire-Resistance Classification: UL Class A.
 - 2. A roofing assembly in compliance with an assembly that has been successfully tested by a qualified testing agency to resist the design uplift pressures calculated according to IBC Section 1504, IBC Section 1609 & ASCE 7.
 - C. **Accessible Insulation Types – Constant Thickness Application:** Two layers of approximately equal thickness of polystyrene board plus a cover board.
 - D. **Acceptable Insulation Types – Tapered Application:** Any type that meets requirements and is approved by membrane manufacturer for application.
- 2.02 ROOFING MEMBRANE AND ASSOCIATED MATERIALS**
- A. **Membrane:**
 - 1. Material: Thermoplastic polyolefin (TPO) complying with ASTM D2675.
 - 2. Reinforcing: Internal fabric.
 - 3. Thickness: 0.020 inch minimum.
 - 4. Sheet Weight: Factory fabricated into largest sheets possible.
 - 5. Color: White.
 - B. **Seaming Materials:** As recommended by membrane manufacturer.
 - C. **Membrane Fasteners:** As recommended and approved by membrane manufacturer.
 - D. **Flashing Material:** Material recommended by membrane manufacturer.

- 2.03 INSULATION**
- A. **Polystyrene/Mineral Board Insulation:** Rigid cellular foam, complying with ASTM C1289, Type II, Class 2, Grade 2 and with the following characteristics:
 - 1. Compressive Strength: 15 pounds per square foot.
 - 2. Thermal Resistance: R-value as indicated on the drawings.
- 2.04 ACCESSORIES**
- A. **Stack Boots:** Prefabricated flexible boot and collar for pipe stacks through membrane (same material as membrane).
 - B. **Insulation Joint Type:** Glass Fiber reinforced type as recommended by insulation manufacturer, compatible with roofing materials 6 inches wide self-adhering.
 - C. **Insulation Fasteners:** Appropriate for purpose intended and approved by roofing manufacturer.
 - D. **Membrane Adhesive:** As recommended by membrane manufacturer.
 - E. **Cover Tape:** Type adhesive laminated to cover strip, as recommended by manufacturer, used to strip in metal flashings.
 - F. **Surface Conditioner for Adhesives:** Compatible with membrane and adhesives.
 - G. **Thinners and Solvents:** As recommended by adhesive manufacturer, compatible with membrane.
 - H. **Strip Repair Device:** Stainless steel, maximum possible lengths per location, with attachment flanges.
 - I. **Edge & seam sealants:** Used to seal edge of roofing membrane, type as recommended by membrane manufacturer.
 - J. **Coated Metal:** Laminated of TPO membrane and galvanized steel.
 - K. **Walkway Decks:** Tapered thermoplastic sheet, 30" x 30" inch.
 - L. **Cover Board:** ASTM C 1177/C 1177M, glass-mat, water-resistant gypsum substrate, 1/2" thick.
 - M. **Walkway Foam Feet:** Class 4 cast polyethylene, 1 1/2" inch diameter unless noted.

- 3.01 INSTALLATION – GENERAL**
- A. **Fasten roofing assembly to resist the design uplift pressures calculated according to IBC Section 1504, IBC Section 1609 & ASCE 7.**
 - B. **Perform work in accordance with NIRA Roofing and Waterproofing Manual and manufacturer's instructions.**
 - C. **Do not apply roofing membrane during unsuitable weather.**
 - D. **Do not apply roofing membrane when ambient temperature is outside the temperature range recommended by manufacturer.**
 - E. **Do not apply roofing membrane to damp or frozen deck surface or when precipitation is expected or occurring.**
 - F. **Do not expose materials vulnerable to water or sun damage in quantities greater than can be weatherproofed the same day.**
 - G. **Coordinate the work with installation of associated countertoplinings installed by other sections as the work of this section proceeds.**
- 3.02 EXAMINATION**
- A. **Verify that surfaces and site conditions are ready to receive work.**
 - B. **Verify deck is supported and secure.**
 - C. **Verify deck is clean and smooth, flat, free of depressions, waves, or projections, properly sloped and suitable for installation of roof system.**
 - D. **Verify deck surfaces are dry and free of snow or ice.**
 - E. **Verify that roof openings, curbs, and penetrations through roof are solidly set, and roofing strips and reglets are in place.**

- 3.03 INSULATION**
- A. **Attachment of Insulation:** Mechanically fasten insulation to deck in accordance with roofing manufacturer's instructions.
 - B. **Use subsequent layers of insulation with joints staggered minimum 6 inch from joints of preceding layer.**
 - C. **Place tapered insulation to the required slope pattern in accordance with manufacturer's instructions.**
 - D. **On metal deck, place boards parallel to flutes with insulation board edges bearing on deck flutes.**
 - E. **On edge boards with edges in moderate contact without forcing, cut insulation to fit neatly to perimeter blocking and around penetrations through roof.**
 - F. **At roof drains, use insulation-tapered boards to slope down to roof drains over a minimum of 18 inches.**
 - G. **Do not apply more insulation than can be covered with membrane in same day.**
- 3.04 COVER BOARD INSTALLATION**
- A. **Install cover boards over insulation with long joints in continuous straight lines with and joints staggered between rows. Stagger joints from joints in insulation below a minimum of 8 inches in each direction. Loosely but cover boards together and fasten to roof deck.**
 - 1. Fasten to resist uplift pressure at corners, perimeter, and field of roof.

- 3.05 MEMBRANE APPLICATION**
- A. **Roll out membrane, free from wrinkles or tears. Place sheet into place without stretching.**
 - B. **Single joints on sloped substrate in direction of drainage.**
 - C. **Fully Adhered Application:** Fully embed membrane in adhesive except in areas directly over or within 3 inches of expansion joints. Fully adhere one roll before proceeding to adjacent rolls.
 - D. **Overlap edges and ends and seal seams by hot welding. Seal permanently waterproof.**
 - E. **Apply seam sealant on membrane edges and patches where recommended by roof membrane manufacturer.**
 - F. **Mechanical Attachment:** Apply membrane and mechanical attachment devices in accordance with manufacturer's instructions.

- G. **At intersections with vertical surfaces:**
 - 1. **Extend membrane up a minimum of 8 inches onto vertical surfaces.**
 - a. Place flexible foam rod at roof to wall intersection where roof is not supported by masonry and as detailed.
 - 2. **Fully adhere flexible flashing over membrane and up to top of wall.**
 - a. Continue across rod to front edge and turn down face of wall.
 - 3. **Insert flashing into reglets and secure where detailed.**
 - H. **At gable stops and perimeter metal flashings, extend membrane under metal and turn down the side of the wall. Fully adhere flexible flashing over frame of metal and extend onto roof membrane.**
 - I. **Around roof penetrations, seal flanges and flashings with flexible flashing.**
 - J. **Coordinate installation of roof drains, roof ramps, and related flashings.**
 - K. **Install walkway pads. Space pad joints to permit drainage.**
- 3.06 FIELD QUALITY CONTROL**
- A. **Require site attendance of roofing material manufacturers daily during installation of the work.**
 - B. **Test membrane seam welds in accordance with roofing manufacturer's requirements.**
 - 1. Test welds with probe to verify seam weld continuity. Test 100% of seams.
 - 2. Verify field strength of seams; not less than 3 tests per work day.
 - 3. Repair tears, voids and trapped seams in roofing membrane that do not meet requirements.

- 3.07 CLEANING**
- A. **Remove excess materials, and debris from roof surfaces.**
 - B. **In areas where limited surfaces are sealed by this section, consult manufacturer of surfaces for cleaning advice and conform to their instructions.**
 - C. **Repair or replace damaged or damaged finishes caused by work of this section.**
- 3.08 PROTECTION**
- A. **Protect installed roofing and flashings from construction operations.**
 - B. **Where traffic must continue over finished roof membrane, protect surfaces using walkway products.**

SECTION 07_5900 — PREPARATION FOR RE-ROOFING

- 1.01 QUALITY ASSURANCE**
- A. **Material Removal Firm Qualifications:** Company specializing in performing the work of this section with minimum 5 years of experience.
- 1.02 FIELD CONDITIONS**
- A. **Do not remove existing roofing membrane when weather conditions threaten the integrity of the building contents or intended occupancy.**
 - B. **Motion continuous temporary protection prior to and during installation of new roofing system.**
- 2.01 MATERIALS**
- A. **Temporary Protection:** Sheet polyethylene; provide weights to retain sheeting in position.
- 3.01 EXAMINATION & PREPARATION**
- A. **Verify that existing roof surface is clear and ready for work of this section.**
 - B. **Sweep roof surface clean of dirt, debris, and other materials.**
 - C. **Remove loose refuse and dispose off site.**
- 3.02 MATERIAL REMOVAL**
- A. **Remove any existing roofing materials that can be replaced with new materials the same day.**
 - B. **Remove metal counter flashings.**
 - C. **Scrape roofing gravel from membrane surface without causing serious damage to membrane flaps.**
 - D. **Remove roofing membrane, perimeter base flashings, flashings around roof protrusions, patch pans and coatings.**
 - E. **Remove damaged insulation and fasteners, cut strips, blocking.**
- 3.03 FIELD QUALITY CONTROL**
- A. **Independent agency inspection and testing will be provided under provisions of Section 01400.**
 - B. **Testing will identify the condition of existing materials and make recommendations for their repair, repair or removal.**
 - C. **Test Reports:** Indicate existing insulation moisture content.
- 3.04 PROTECTION**
- A. **Provide temporary protective sheathing over uncovered deck surfaces.**
 - B. **Turn sheeting up and over parapets and curbing. Retain sheeting in position with weights.**
 - C. **Provide for surface drainage from sheeting to existing drainage facilities.**
 - D. **Do not permit traffic over unprotected or repaired deck surface.**

SECTION 07_6200 — SHEET METAL FLASHING AND TRIM

- 1.01 ADMINISTRATIVE REQUIREMENTS**
- A. **Preinstallation Meeting:** Convene one week before starting work of this section.
- 1.02 SUBMITTALS**
- A. **Shop Drawings:** Indicate material profile, joining pattern, joining details, flashing methods, flashings, terminations, and installation details.
- 1.03 QUALITY ASSURANCE**
- A. **Perform work in accordance with SMACNA Architectural Sheet Metal Manual or the NIRA Roofing and Waterproofing Manual recommendations and standard details, except as otherwise indicated.**
 - B. **Fabricator and installer Qualifications:** Company specializing in sheet metal work with 5 years of experience.
- 1.04 DELIVERY, STORAGE, AND HANDLING**
- A. **Stack material to prevent bending, bending, and abrasion, and to provide ventilation. Stack metal sheets to ensure drainage.**
 - B. **Prevent contact with materials that may cause discoloration or staining.**
- 1.05 WARRANTY**
- A. **Provide manufacturer's standard material finish warranty, agreeing to repair or replace panels that show evidence of finish degradation, including fading, chalking, cracking, or peeling. Warranty period 10 years, non-prorated.**
- 2.01 EDGE SYSTEMS USED WITH LOW SLOPE ROOFING SYSTEMS**
- A. **Edge System Requirements:** Metal edge to resist the design uplift pressures calculated according to:
 - 1. IBC Chapter 15 section on Performance Requirements.
 - 2. SPS 15-1.
- 2.02 SHEET MATERIALS**
- A. **Pre-Finished Galvanized Steel:** ASTM A653/A653M, with G90/Z275 zinc coating; minimum 0.020 inch thick base metal, shop pre-coated with PVDF coating.
 - 1. **FR-10 (Polyethylene Resin) Coating:** Superior Performance Finish, ANMA 2625; multiple coat, thermally cured fluoropolymer finish system.
 - 2. **Color:** As shown on drawings.
 - B. **Aluminum:** ASTM B209 (ASTM B209M); 0.050 inch thick (2024) finish of color as selected. Clear Anodized Finish: ANA 611 AA-112/2241 Class I clear anodic coating not less than 0.7 mils thick.
 - C. **Pre-Finished Aluminum:** ASTM B209 (ASTM B209M); 0.040 inch thick; plain finish shop pre-coated with fluoropolymer coating.
 - 1. **Fluoropolymer Coating:** High Performance Organic Finish, ANMA 2604; multiple coat, thermally cured fluoropolymer finish system.
 - 2. **Color:** As shown on drawings.
- 2.03 ACCESSORIES**
- A. **Thinners:** Stainless steel, with soft rework wipers.
 - 2. **Underlayment:** ASTM D226, organic roofing felt, type 1 (No. 15).
 - 3. **Strip Sheet:** Rasm sized building paper.
 - 4. **Primer:** Zinc chromate type.
 - 5. **Protective Blocking Paint:** Asphaltic mastic, ASTM D 4479 Type 1.
 - 6. **Sealant:** Type specified in Section 07900.
 - 7. **Fastener:** ASTM D3686, Type 1.
 - 8. **Reglets:** Surface or recessed type, stainless steel.
- F. FABRICATION**
- 1. **Form sections true to shape, accurate in size, square, and free from distortion or defects.**
 - 2. **Fabricate cleets of same material as sheet, continuous, interlocking with sheet.**

- 3. **Form pieces in longest possible lengths.**
 - 4. **Form exposed edges on underside 1/2 inch miter and seam corners.**
 - 5. **Use material with flat lock seams, except where otherwise indicated. At mitering joints, use sealed, stepped, bayonet-type or interlocking hooked seams.**
 - 6. **Fabricate corners from one piece with minimum 24 inch long legs; seam for rigidity, seal with sealant.**
 - 7. **Insert flashing into reglets and secure where detailed.**
- 1.01 SECTION INCLUDES**
- 1. **Gutters:** SMACNA Architectural Sheet Metal Manual, Rectangular profile.
 - 2. **Downspouts:** Rectangular profile.
 - 3. **Gutters and Downspouts:** Size for rainfall intensity determined by a storm occurrence of 1 in 100 years in accordance with Plumbing Code.
 - 4. **Coordinate installation of roof drains and related flashings.**
 - a. **Anchorage Devices:** In accordance with SMACNA requirements.
 - b. **Downspout Supports:** Brackets & Straps.
 - 5. **Spash Plates:** Type and profile appropriate to the application; minimum 3000 psi of 28 days, with minimum 5 percent or entrainment.
 - 6. **Downspout Alotops:** Plastic.
 - 7. **Seal Metal Joints:**

- 3.01 EXAMINATION**
- A. **Verify roof openings, curbs, pipes, sleeves, ducts, and vents through roof are solidly set, reglets in place, and flashing strips received.**
 - B. **Verify roofing termination and base flashings are in place, sealed, and secure.**
- 3.02 PREPARATION**
- A. **Install starter and edge strips, and cleats before starting installation.**
 - B. **Install surface mounted reglets true to lines and levels. Seal top of reglets with sealant.**
 - C. **Deck joint concealed metal flashings with protective blocking paint to a minimum dry film thickness of 15 mil.**
- 3.03 INSTALLATION**
- A. **Fasten metal edge systems to resist the design uplift pressures calculated according to IBC Chapter 15 section on Performance Requirements & SPS 15-1.**
 - 1. **Install flashings into reglets to form tight fit. Secure in place with plastic wedges. Seal flashings with sealant.**
 - C. **Secure flashings in place using concealed fasteners. Use exposed fasteners only where permitted.**
 - D. **Apply plastic cement compound between metal flashings and felt flashings.**
 - E. **Flt flashings tight in place. Make corners square, surfaces true and straight in planes, and finish accurate to profiles.**
 - F. **Expansion Provisions:** Provide for thermal expansion of exposed flashing and trim. Space movement joints at a maximum of 10 feet with no joints allowed within 12 inches of corners.
 - G. **Seal metal joints watertight.**
 - H. **Secure gutters and downspouts in place using fasteners.**
 - I. **Spash plates 1/4 inch per 10 feet minimum.**
 - J. **Connect downspouts to street sewer system. Seal connection watertight.**
 - K. **Set spash pans over downspouts.**
- 3.04 FIELD QUALITY CONTROL**
- A. **Inspect the work during installation to ascertain compliance with specified requirements.**

- 3.05 SCHEDULE**
- A. **Grove stop, Fascia and Coping Cop:** Prefinished galvanized steel.
 - B. **Gutters and Downspouts:** Prefinished galvanized steel.
 - C. **Scuppers:** Prefinished galvanized steel.
 - D. **SIU and head flashings, including transition flashing between materials:** Prefinished aluminum.
 - E. **Expansion trim & accessories related to aluminum framed storefronts:** Anodized aluminum, color to match storefront.
 - F. **Counterflashing of Roofing Terminations (over roofing base flashings):** Stainless steel.
 - G. **Counterflashings of Curb-Mounted Roof Items, including skylights and roof hatches:** Match material of item being flashed.

SECTION 07_720 — ROOF ACCESSORIES

- 1. **1.01 SECTION INCLUDES**
 - A. **Product Data:** Manufacturer's data sheets on each product to be used.
- 2. **1.01 ROOF HATCHES**
 - A. **Roof Hatches:** Factory-assembled steel frame and cover, complete with operating and release hardware.
 - 1. **Style:** Provide flat top covers unless otherwise indicated.
 - 2. **Mounting:** Provide frames and curbs suitable for mounting on conformed metal roof deck.
 - 3. **Star(s):** As indicated on drawings; single-leaf style unless indicated as double-leaf.
 - 4. **Ladder Safety Post:** Furnish and install with roof hatch. Safety Yellow powder coat finish.
- 3. **2.02 SNOW GUARDS**
 - A. **Snow Guard:** Individual projecting metal shoes, between metal roofing seams/battens, and adhered to roof deck.
 - 1. **Projecting Metal Shoes:** Aluminum castings, triangular spike design.
 - 2. **Finish:** Polyurethane coating, color to match roof.
 - 3. **Placement:** As recommended by manufacturer.
- 3.01 **EXAMINATION & PREPARATION**
 - A. **Do not begin installation until substrates have been properly prepared.**
 - B. **Clean surfaces thoroughly prior to installation.**
 - C. **Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.**
- 3.02 **INSTALLATION**
 - A. **Install in accordance with manufacturer's instructions, in manner that maintains roofing water integrity.**
- 3.03 **CLEANING & PAINTING**
 - A. **Clean installed work with fine-pounding medium.**
 - B. **Prepare roof hatch for field-painting after installation.**
 - C. **Apply finish paint in accordance with Section 09900.**

SECTION 07_8400 — FIRESTOPPING

- 1.01 SECTION INCLUDES**
- A. **Firestopping assemblies.**
 - B. **Firestopping of all joints and penetrations in fire-resistance rated and smoke-resistant assemblies, and other openings indicated.**
- 1.02 SUBMITTALS**
- A. **Schedule of Firestopping:** List each type of penetration, fire rating of the penetrated assembly, and firestopping test or design number.
 - B. **Product Data:** Provide data on product characteristics, performance ratings, and limitations.
- 1.03 QUALITY ASSURANCE**
- A. **Firestopping assemblies:** Provide firestopping assemblies of designs that provide the specified fire ratings when tested in accordance with ASTM E 814 and ASTM E 119.
 - 1. **Listing in the current-year classification or certification books of UL, FM, or ITC (Vermeer-Hershey) will be considered as constituting an acceptable test report.**
 - 2. **Valid evaluation report published by ICC Evaluation Service, Inc. (ICC-ES) of this report will be considered as constituting an acceptable test report.**
 - B. **Manufacturer Qualifications:** Company specializing in manufacturing the products specified in this section with minimum three years experience.
 - C. **Installer Qualifications:** Company specializing in performing the work of this section:
 - 1. **With minimum 3 years experience installing work of this type.**
- 1.04 FIELD CONDITIONS**
- A. **Comply with firestopping manufacturer's recommendations for temperature and conditions during and after installation. Maintain minimum temperature before, during, and for 3 days after installation of materials.**
 - B. **Verify ventilation in areas where solvent-cured materials are being installed.**
- 2.01 FIRESTOPPING – GENERAL REQUIREMENTS**

- A. **Firestopping:** Any material meeting requirements.
 - B. **Materials:** Use any material meeting requirements.
 - C. **Primers, Sleeves, Forms, Insulation, Packing, Stuffing, and Accessories:** Type required by manufacturer's instructions.
 - D. **Fire Ratings:** See Drawings for required ratings.
- 2.02 FIRESTOPPING ASSEMBLY REQUIREMENTS**
- A. **Penetration:** Use any system that has been tested according to ASTM E2307 to have fire resistance F Rating equal to required fire rating of the roof assembly.
 - B. **Head-of-Wall Firestopping at Joints Between Non-Rated Floor and Fire-Rated Wall:** Use any system that has been tested according to ASTM E2837 to have fire resistance F Rating equal to required fire rating of floor or wall, whichever is greater.
 - C. **Flange-to-Trough, Walk-to-Walk, and Walk-to-Floor Joints:** Except Perimeter, Where Both Are Fire-Rated: Use any system that has been tested according to ASTM E1996 or UL 2079 to have fire resistance F Rating equal to required fire rating of the assembly in which the joint occurs.
 - D. **Through Penetration Firestopping:** Use any system that has been tested according to ASTM E314 to have fire resistance F Rating equal to required fire rating of penetrated assembly.

- 3.01 EXAMINATION & PREPARATION**
- A. **Verify openings are ready to receive the work of this section.**
 - B. **Clean substrate surfaces of dirt, dust, grease, oil, loose material, or other matter that could adversely affect bond of firestopping material.**
 - C. **Remove incompatible materials that could adversely affect bond.**
 - D. **Install backing materials to correct liquid material leakage.**
- 3.02 INSTALLATION**
- A. **Install materials in manner described in fire test report and in accordance with manufacturer's instructions, completely closing openings.**
 - B. **Do not cure installed firestopping until inspected by authority having jurisdiction.**
 - C. **Install firestopping requires by code.**
- 3.03 CLEANING & PROTECTION**
- A. **Clean adjacent surfaces of firestopping materials.**
 - B. **Protect adjacent surfaces from damage by material installation.**

SECTION 07_9200 — JOINT SEALANTS

- 1.01 SUBMITTALS**
- A. **Product Data:** Provide data indicating sealant performance criteria, substrate preparation, limitations, and color availability.
- 1.02 QUALITY ASSURANCE**
- A. **Manufacturer Qualifications:** Company specializing in manufacturing the Products specified in this section with minimum five years experience.
 - B. **Application Qualifications:** Company specializing in performing the work of this section with minimum five years experience.
- 1.03 FIELD CONDITIONS**
- A. **Maintain temperature and humidity recommended by the sealant manufacturer during and after installation.**
- 1.04 WARRANTY**
- A. **See Section 01780 – Closeout Submittals, for additional warranty requirements.**
 - B. **Correct defective work within a five year period after Date of Substantial Completion.**
 - C. **Warranty:** include coverage for installed sealants and accessories which fail to adhere watertight seal, exhibit loss of adhesion or cohesion, or do not cure.

- 2.01 SEALANTS**
- A. **Sealants and Primers – General:** Provide only products having low volatile organic compound (VOC) content than required by South Coast Air Quality Management District Rule No.1169.
 - B. **General Purpose Interior Sealant:** Polyurethane; ASTM C 920, Grade NS, Class 50, Uses M, U, and A; single, or multi-component.
 - 1. **Color:** Match adjacent finished surfaces.
 - 2. **Applications:** Use for:
 - a. Control, expansion, and seal joints in masonry.
 - b. Joints between concrete and other materials.
 - c. Joints between metal frames and other materials.
 - d. Other exterior joints for which no other sealant is indicated.
 - C. **Exterior Expansion Joint Sealant:** Precompressed foam sander; in-house with water-respice.
 - 1. **Face color:** Standard colors matching finished surfaces.
 - 2. **Size:** equal to provide watertight seal when installed.
 - 3. **Applications:** Use for:
 - a. Exterior wall expansion joints.
 - D. **Exterior Metal Lap Joint Sealant:** Butyl or polybutylene, nonshrinking, nonstaining.
 - 1. **Applications:** Use for:
 - a. Concealed sealant bead in sheet metal work.
 - b. Concealed sealant bead in sliding operations.
 - 2. **Conditions as indicated on drawings and specifications.**
 - E. **General Purpose Interior Sealant:** Acrylic emulsion latex; ASTM C834, Type OP, Grade NS; 1. M and A; single component.
 - 1. **Applications:** Use for:
 - a. Interior wall and ceiling control joints
 - b. Joints between door and window frames and wall surfaces.
 - c. Other interior joints for which no other type of sealant is indicated.
 - F. **Bath/ tub/Tile Sealant:** Clear Silicone; ASTM C 920, Uses L, M and A; single component.
 - 1. **Applications:** Use for:
 - a. Joints between plumbing fixtures and floor and wall surfaces.
 - b. Joints between kitchen and bath countertops and wall surfaces.
 - 2. **Acoustical Sealant for Concealed Locations:**
 - 1. **Applications:** Use for concealed locations only:
 - a. Sealant bead between top stud runner and structure and between bottom stud trunk and floor, where an STC rating is indicated.

- 2.02 ACCESSORIES**
- A. **Primer:** Non-staining type, recommended by sealant manufacturer to suit application.
 - B. **Joint Cleaner:** Non-corrosive and non-staining type, recommended by sealant manufacturer for joint form preparation.
 - C. **Joint Backing:** Round foam rod compatible with sealant; closed cell polyethylene; oversized 30 to 50 percent larger than joint width.
 - D. **Bond Breaker:** Pressure sensitive tape recommended by sealant manufacturer to suit application.

- 3.01 EXAMINATION**
- A. **Verify that substrate surfaces and joint openings are ready to receive work.**
 - B. **Verify that joint backing and release tapes are compatible with sealant.**
- 3.02 PREPARATION**
- A. **Remove loose materials and foreign matter that could impair adhesion of sealant.**
 - B. **Clean and prime joints in accordance with manufacturer's instructions.**
 - C. **Prepare preparation in accordance with manufacturer's instructions and ASTM C1174.**
 - D. **Protect elements surrounding the work of this section from damage or discoloration.**
- 3.03 INSTALLATION**
- A. **Perform work in accordance with sealant manufacturer's requirements for preparation of surfaces and material installation instructions.**

- B. **Perform installation in accordance with ASTM C1193.**
- C. **Perform acoustical sealant application work in accordance with ASTM C819.**
- D. **Measure joint dimensions and size joint backers to achieve width-to-depth ratio, neck dimension, and surface bond area as recommended by manufacturer.**
- E. **Install bond breaker where joint backing is not used.**
- F. **Install sealant free of air pockets, foreign embedded matter, ridges, and sags.**
- G. **Apply sealant within recommended application temperature ranges. Consult manufacturer when sealant cannot be applied within these temperature ranges.**
- H. **Final joints exposed.**
- I. **Precompressed Foam Sealant:** Do not stretch; avoid joints except at corners, ends, and intersections; install with force 1/8 to 1/4 inch below adjoining surface.

- 3.04 CLEANING & PROTECTION**
- A. **Clean adjacent sealed surfaces.**
 - B. **Protect sealants until cures.**



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 ELECTRICAL ENGINEER



FL LIC. AR98660 exp. 2/28/2023

FIRE STATION 24 EXPANSION
 OVERSEAS HIGHWAY & EAST DRIVE
 KEY LARGO, FL 33037
KEY LARGO FIRE RESCUE & EMS
 OVERSEAS HWY & EAST DR., KEY LARGO, FL 33037

SHEET TITLE:
SPECIFICATIONS

ORIGINAL SIZE: 24 x 36 PROJECT NUMBER: 21003
 DRAWN BY: Designer CHECKED BY: Checker

CREATION DATE:	DATE
ISSUED FOR:	DATE:

REVISION	DATE
</	

SECTION 09 6500 – RESILIENT TILE FLOORING AND BASE

1.01 SUBMITTALS

A. Product Data: Provide data on specified products, describing physical and performance characteristics, including sizes, patterns and colors available, and installation instructions.

B. Certification: Prior to installation of flooring, submit written certification by flooring manufacturer and adhesive manufacturer that condition of sub-floor is acceptable.

C. Maintenance Materials: Furnish the following for Owner's use in maintenance of project.

- 1. Extra Flooring Material: 12 square feet of each type and color.
2. Extra Wall Base: Eight linear feet of each type and color.

1.02 FIELD CONDITIONS

A. Store materials for not less than 48 hours prior to installation in area of installation at a temperature of 70 degrees F to achieve temperature stability. Thereafter, maintain conditions above 50 degrees F.

2.01 TILE FLOORING

A. Vinyl Composition Tile: Homogeneous, with color extending throughout thickness, and:

- 1. Minimum Requirements: Comply with ASTM F1066, of class corresponding to type specified.
2. Size: 12 x 12 inch.
3. Thickness: 0.125 inch.

B. Pattern & Color: as indicated on the drawings.

2.02 RESILIENT BASE

A. Resilient Base: ASTM F1951, Type IV, vinyl, thermosetting; top set style and color, as scheduled on the drawings, and as follows:

- 1. Height, Color, and Finish: As scheduled on the drawings.
2. Thickness: 0.125 inch thick.
3. Length: Full.
4. Accessories: Premolded external corners.

2.03 ACCESSORIES

A. Surface Filler: White premix latex; type recommended by adhesive material manufacturer.

B. Primers, Adhesives, and Seaming Materials: Waterproof; types recommended by flooring manufacturer.

1. Provide only products having VOC content than allowed by local regulation.
2. Moldings, Transition and Edge Strips: As scheduled on the drawings.
3. Sealer and Polish: Types recommended by flooring manufacturer.

3.01 EXAMINATION

A. Verify that surfaces are flat to tolerances acceptable to flooring manufacturer, free of cracks that might telegraph, and free of curing compounds, surface hardeners, and other chemicals that might interfere with bonding of flooring to substrate.

B. Verify that wall surfaces are smooth and flat within the tolerances specified for that type of work, are dust-free, and are ready to receive resilient base.

C. Cementitious Sub-floor Surfaces: Verify that substrates are dry enough and ready for flooring installation by testing for moisture and pH.

1. Test in accordance with ASTM F710, including but not limited to Moisture Vapor Emission and pH.
2. Test Internal Relative Humidity in accordance with ASTM F2170 Procedure A.

D. Verify that required floor-mounted utilities are in correct location.

3.02 PREPARATION

A. Prepare floor substrates as recommended by flooring and adhesive manufacturers and in accordance with ASTM F710.

B. Remove sub-floor ridges and bumps, fill minor low spots, cracks, joints, holes, and other defects with sub-floor filler to achieve smooth, flat, hard surface.

C. Clean substrate.

D. Apply primer as required to prevent "bleed-through" or interference with adhesion by substrates that cannot be removed.

3.03 INSTALLATION

A. Starting installation constitutes acceptance of sub-floor conditions.

B. Install in accordance with manufacturer's instructions.

C. Spread only enough adhesive to permit installation of materials before initial set.

D. Fit joints tightly.

E. Set flooring in place, press with heavy roller to effect full adhesion.

F. Where type of floor finish, pattern, or color are different on opposite sides of door, terminate flooring under centerline of door.

G. Install edge strips or vinyl transition strips at ungrouted or spaced edges, where flooring terminates or abuts other finishes, and where indicated.

H. Scrub flooring in walls, columns, cabinets, floor outlets, and other appendages to produce light finish.

I. Install flooring in recessed floors, covers, maintaining floor pattern.

3.04 TILE FLOORING

A. Mix tile from container to ensure shade variations are consistent when tile is placed, unless manufacturer's instructions say otherwise.

3.05 RESILIENT BASE

A. Fit joints tightly and make vertical. Maintain minimum dimension of 1/8 inches between base.

B. After internal corners. At external corners, use premolded units. At exposed ends, use premolded units.

C. Install base on solid backing. Bond tightly to wall and floor surfaces.

D. Scrub and fill to door frames and other interruptions.

3.06 CLEANING & PROTECTION

A. Remove excess adhesive from floor, base, and wall surfaces without damage.

B. Clean, seal and polish in accordance with manufacturer's instructions.

C. Protect traffic on resilient flooring for 48 hours after installation.

SECTION 09 8810 – SHEET CARPETING

1.01 SUBMITTALS

A. Product Data: Provide data on specified products, describing physical and performance characteristics, sizes, patterns, colors available, and method of installation.

B. Samples: Submit three samples 12 x 12 inch in size illustrating color and pattern for each carpet material to be specified.

1.02 QUALITY ASSURANCE

A. Installer Qualifications: Company specializing in installing carpet with minimum three years experience.

1.03 FIELD CONDITIONS

A. Store materials in area of installation for minimum period of 24 hours prior to installation.

B. Maintain minimum 70 degrees F ambient temperature 24 hours prior to, during and 24 hours after installation.

2.01 CARPET

A. Carpet: As scheduled on drawings. Surface Flammability Ignition: Pass ASTM B885 (the "pill test").

2.02 ACCESSORIES

A. Sub-floor Filler: Type recommended by carpet manufacturer.

B. Moldings and Edge Strips: Material and color as selected.

C. Seam Adhesive: Recommended by manufacturer.

D. Contact Adhesive: Recommended by carpet manufacturer.

3.01 EXAMINATION

A. Verify that sub-floor surfaces are smooth and flat within the tolerances specified for that type of work and are ready to receive carpet.

B. Verify that wall surfaces are smooth and flat within the tolerances specified for that type of work, are dust-free, and are ready to receive carpet.

C. Verify that sub-floor surfaces are dust-free and free of substances that could impair bonding of adhesive to sub-floor surfaces.

D. Cementitious Sub-floor Surfaces: Verify that substrates are dry enough and ready for flooring installation by testing for moisture and pH.

1. Test in accordance with ASTM F710.
2. Test Internal Relative Humidity in accordance with ASTM F2170 Procedure A.

D. Obtain instructions if test results are not within limits recommended by flooring material manufacturer and adhesive material manufacturer.

E. Verify that required floor-mounted utilities are in correct location.

3.02 PREPARATION

A. Prepare floor substrates as recommended by flooring and adhesive manufacturers.

B. Remove sub-floor ridges and bumps, fill minor low spots, cracks, joints, holes, and other defects with sub-floor filler.

C. Apply trowel, and float filler to achieve smooth, flat, hard surface. Prohibit traffic until filler is cured.

D. Clean substrate.

3.03 INSTALLATION – GENERAL

A. Starting installation constitutes acceptance of sub-floor conditions.

B. Install carpet and cushion in accordance with manufacturer's instructions and CR1 Carpet Installation Standard.

C. Verify carpet match before cutting to ensure minimal variation between dye lots.

D. Lay out carpet.

1. Locate seams in areas of least traffic, out of areas of pivoting traffic, and parallel to main traffic.

2. Do not install seams perpendicular through door openings.

3. Align run of pile in same direction as anticipated traffic and in same direction on adjacent planes.

4. Locate change of color or pattern between rooms under door centerline.

5. Provide monolithic color, pattern, and texture match within any one area.

E. Install carpet tight and flat on subfloor, well fastened at edges, with a uniform appearance.

3.04 DIRECT-GLUED CARPET

A. Double cut carpet seams, with accurate pattern match. Make cuts straight, true, and unfrayed. Apply seam adhesive to cut edges of woven carpet immediately.

B. Apply contact adhesive to floor uniformly at rate recommended by manufacturer. After sufficient open time, press carpet into adhesive.

C. Apply seam adhesive to the back of the edge guard down. Lay adjoining piece with seam straight, not overlapped or peaked, and free of gaps.

D. Roll out with appropriate roller for complete contact of adhesive to carpet backing.

E. Trim carpet neatly at walls and around obstructions.

F. Complete installation of edge strips, concealing exposed edges.

3.05 CLEANING

A. Remove excess adhesive from floor and wall surfaces without damage.

B. Clean and vacuum carpet surfaces.

SECTION 09 9100 – PAINTS AND COATINGS

1.01 SECTION INCLUDES

A. Scope: Finish all interior and exterior surfaces exposed to view, unless fully factory-finished and unless otherwise indicated, including the following:

- 1. Exposed surfaces of steel lintels and ledge angles.
2. Prims surfaces to receive wall coverings.
3. Mechanical and Electrical:
a. In finished areas, paint all insulated and exposed pipes, condall, boxes, insulated and exposed ducts, hangers, brackets, colors and supports, mechanical equipment, and electrical equipment, unless otherwise indicated.
b. In finished areas, paint shop-painted items.
c. On the roof and outdoors, paint all equipment that is exposed to weather or to view, except that which is factory-finished.

B. Do Not Paint or Finish the Following Items:

- 1. Items fully factory-finished unless specifically so indicated; materials and products having factory-applied finishes are not considered factory-finished.
2. Items indicated to receive other finishes.
3. Items indicated to remain unpainted.

C. Fire rating labels, equipment serial number and capacity labels, and operating points of equipment.

D. Shores, unless specifically so indicated.

6. Glass.

7. Corroded pipes, ducts, and conduits.

1.02 SUBMITTALS

A. Product Data: Provide complete list of all products to be used, with the following information for each:

- 1. Manufacturer's name, product name and/or catalog number, and general product category.
2. MPI product number.
3. Cross-reference to specified point system(s) product to be used; include description of each system.

B. Samples: Submit three samples "drop" samples, 8-1/2 by 11 inches in size, illustrating range of color available for each finishing product specified.

1. Where sheet is specified, submit samples in only flat sheet.

2. Where sheet is not specified, discuss sheet samples with Architect before preparing materials to eliminate sheens deficiency not required.

C. Maintenance Materials: Furnish the following for Owner's use in maintenance of project.

- 1. Extra Paint and Coatings: 1 gallon of each color and type; store where directed.
2. Label each container with color, type, texture, and room locations in addition to the manufacturer's label.

1.03 QUALITY ASSURANCE

A. Applicator Qualifications: Company specializing in performing the type of work specified with minimum three years experience.

1.04 FIELD CONDITIONS

A. Do not apply materials when surface and ambient temperatures are outside the temperature ranges required by the paint product manufacturer.

B. Follow manufacturer's recommended procedures for producing best results, including testing of substrates, moisture in substrates, and humidity and temperature limitations.

2.01 MANUFACTURERS

A. Provide all paint and coating products from the same manufacturer to the greatest extent possible.

2.02 PAINTS AND COATINGS – GENERAL

A. Paints and Coatings: Ready mixed, unless intended to be a field-catalyzed coating.

1. Where MPI paint numbers are specified, provide products listed in Master Painters Institute Approved Product List, current edition available at www.paintinfo.com, for specified MPI categories, except as otherwise indicated.

2. Provide paints and coatings of a soft paste consistency, capable of being readily and uniformly applied with a brush or roller, and with good flow and brushing properties, and capable of drying or curing free of streaks or spots.

3. Provide materials that are compatible with the substrate and the substrate indicated under conditions of service or application, as demonstrated by manufacturer based field test experience.

4. Supply each coating material in quantity required to complete entire project's work from a single production run.

5. Do not reduce, thin, or add materials to coatings unless such procedure is specifically described in manufacturer's product instructions.

B. Primers: Where the manufacturer offers options on primers for a particular substrate, use primer categorized as "best" by the manufacturer.

C. Volatile Organic Compound (VOC) Content:

- 1. Provide coatings that comply with the most stringent requirements specified in the following:
a. 40 CFR 59, Subpart D—National Volatile Organic Compound Emission Standards for Architectural Coatings.
2. Determination of VOC Content: Testing and calculation in accordance with 40 CFR 59, Subpart D (EPA Method 24), exclusive of colorants added to a tint base, and water added at project site, or other method acceptable to both the manufacturer and the substrate.
D. Flammability: Comply with applicable code for surface burning characteristics.

E. Shores: Provide the sheres specified, where sheres is not specified, sheres will be furnished by Architect from the manufacturer's full line.

F. Colors: As indicated on drawings.

2.03 PAINT SYSTEMS – INTERIOR

A. All Interior Concrete and Masonry Surfaces Indicated to be Painted, Unless Otherwise Indicated: Including concrete, concrete masonry, and cement board.

1. Preparation: as specified by manufacturer.
2. Two top coats and one coat primer recommended by manufacturer.
3. Top Coat(s): MPI Exterior Latex (MPI # 10, 11, 15, 119, 214).

4. Primer: Oil Concrete and Concrete Masonry: One heavy coat latex block filler

(100 percent acrylic) squeegeed into pores.

B. Wood, Opaque, Latex, 3 Coat:

- 1. One coat of latex primer sealer.
2. Semi-gloss: Two coats of latex enamel; MPI # 11.
3. Opaque Board and Plaster, Opaque, Latex, 3 Coat:
1. One coat of latex primer sealer.
2. Flat: Two coats of latex MPI # 10.
2. Ferrous Metals, Unprimed, Latex, 3 Coat:
1. One coat of latex primer.
2. Semi-gloss: Two coats of latex enamel; MPI # 163.
3. Ferrous Metals, Primed, Latex, 2 Coat:
1. Touch-up with rust-inhibitive primer recommended by top coat manufacturer.
2. Semi-gloss: Two coats of latex enamel; MPI # 163.
3. Galvanized Metals, Latex, 3 Coat:
1. One coat galvanize primer.
2. Semi-gloss: Two coats of latex enamel; MPI # 163.

2.04 PAINT SYSTEMS – INTERIOR

A. All Interior Surfaces Indicated to be Painted, Unless Otherwise Indicated: Including gypsum board, concrete, concrete masonry, brick, wood, plaster, uncoated steel, shop primed steel, and galvanized steel.

1. Top two coats and one coat primer.
2. Primer(s): As recommended by manufacturer of top coats.
B. Medium Duty Door/Trim:
1. Medium duty applications include doors, door frames, railings, handrails, quarterbolts, and balustrades.
2. Top two coats and one coat primer.
3. Top Coat(s): MPI High Performance Architectural Interior Latex; MPI #139,140, 141.
4. Semi-gloss: MPI gloss level 5; use this sheen, unless noted otherwise.
5. Primer(s): As recommended by manufacturer of top coats.
C. Dry Fit: Metals, exposed structure and overhead-mounted services, including shop primed steel, structural steel, metal fabrications, galvanized ducts, galvanized conduit, and galvanized hangers.
1. Shop primer by others.
2. One top coat.
3. Flat: MPI gloss level 1; use this sheen, unless noted otherwise.
4. Flat: MPI gloss level 1; use this sheen, unless noted otherwise.
5. Transparent Finish on Wood, Unless Otherwise Indicated:
1. Stain: MPI Semi-Transparent Stain for Wood; MPI #60.
2. Top Coat(s): MPI Clear Water Based Varnish; MPI #125, 121, 130.
3. Satin: MPI gloss level 4; use this sheen, unless noted otherwise.
E. Wood, Opaque, Latex, 3 Coat:
1. One coat of latex primer sealer.
2. Semi-gloss: Two coats of latex enamel; MPI # 54.
F. Concrete/Masonry, Opoque, Latex, 3 Coat:
1. One coat of latex filler.
2. Flat: Two coats of latex enamel; MPI # 53.
G. Ferrous Metals, Unprimed, Latex, 3 Coat:
1. One coat of latex primer.
2. Semi-gloss: Two coats of latex enamel; MPI # 153.
H. Ferrous Metals, Primed, Latex, 2 Coat:
1. Touch-up with latex primer.
2. Semi-gloss: Two coats of latex enamel; MPI # 153.
I. Galvanized Metals, Latex, 3 Coat:
1. One coat galvanize primer.
2. Semi-gloss: Two coats of latex enamel; MPI # 153.
J. Gypsum Board/Plaster, Latex, 3 Coat:
1. One coat of latex primer sealer.
2. Eggshell: Two coats of latex enamel; MPI # 52.
K. Fabric/Insulation Jackets, Alkyd, 3 Coat:
1. One coat of latex primer sealer.
2. Flat: Two coats of oilst enamel; MPI # 49.

2.05 ACCESSORY MATERIALS

A. Accessory Materials: Provide all primers, sealers, cleaning clothes, grinding materials, and clean-up materials required to achieve the finishes specified whether specifically indicated or not; including commercial quality.

B. Patching Material: Latex Filler.
C. Exterior Heat Cure Kerosene Latex Filler.

3.01 EXAMINATION

A. Do not begin application of coatings until substrates have been properly prepared.

B. Verify that surfaces are ready to receive work as instructed by the product manufacturer.

C. Examine surfaces scheduled to be finished prior to commencement of work. Report any condition that may potentially affect proper application.

D. Test shop-applied primer for compatibility with subsequent coat materials.

E. Measure moisture content of surfaces using an electronic moisture meter. Do not apply finishes unless moisture content of surfaces are below the following minimums:

- 1. Gypsum Wallboard: 12 percent.
2. Plaster and Stucco: 12 percent.
3. Masonry, Concrete, and Concrete Unit Masonry: 12 percent.
4. Interior Wood: 15 percent, measured in accordance with ASTM D4442.
5. Exterior Wood: 15 percent, measured in accordance with ASTM D4442.

3.02 PREPARATION

A. Clean surfaces thoroughly and correct defects prior to coating application.

B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

C. Remove or repair existing coatings that exhibit surface defects.

D. Remove or mask surface appendages, including electrical pipes, hardware, light fixture trim, escutcheons, and fittings, prior to preparing surfaces or finishing.

E. Seal surfaces that might cause bleed-through or staining of topcoat.

F. Remove millies from impure surfaces by scrubbing with solution of trisodium phosphate and bleach. Rinse with clean water and allow surface to dry.

G. Concrete and Unit Masonry Surfaces to be Painted: Remove dirt, loose mortar, scale, silt or alkali powder, and other foreign matter. Remove oil and grease with a solution of trisodium phosphate, rinse well and allow to dry. Remove stains caused by weathering of corroding metals with a solution of sodium hydroxide. Rinse thoroughly with clean water. Allow to dry.

H. Gypsum Board Surfaces to be Painted: Fill minor defects with filler compound. Remove loose material and dust.

I. Plaster Surfaces to be Painted: Fill hairline cracks, small holes, and imperfections with latex patching plaster. Mix smooth and flush with adjacent surfaces. Wash and neutralize high salt surfaces.

J. Insulated Coverings to be Painted: Remove dirt, grease, and all from convex and concave surfaces.

K. Aluminum Surfaces to be Painted: Remove surface contamination by steam or high pressure water. Remove oxidation with acid etch and solvent washing. Apply etching primer immediately following cleaning.

L. Galvanized Surfaces to be Painted: Remove surface contamination and oils and wash with solvent. Apply coat of etching primer.

M. Uncoated Uncoated Steel and Iron Surfaces to be Painted: Remove grease, mill scale, weld splatter, dirt, and rust. Where heavy coatings of scale are evident, remove by hand wire brushing, and clean with acid etch and solvent washing. Apply a treatment of phosphoric acid solution, ensuring well joints, bolts, and nuts are completely covered. Rinse thoroughly with clean water.

N. Shop-Primed Steel Surfaces to be Finish Painted: Sand and scrape to remove loose primer and rust. Feather edges to make touch-up patches inconspicuous. Clean surface with solvent.

O. Interior Wood Surfaces to Receive Opoque Finish: Wipe off dust and grit prior to priming. Seal knots, pitch streaks, and sappy sections with sealer. Fill nail holes and cracks after primer has dried, sand between coats. Back prime notched surfaces before installation.

P. Interior Wood Surfaces to Receive Inexpensive Varnish: Wipe out dust and grit prior to sealing, seal knots, pitch streaks, and sappy sections with sealer. Fill nail holes and cracks after primer has dried, sand lightly between coats. Pine

concealed surfaces with gloss varnish reduced 25 percent with thinner.

R. Exterior Wood Surfaces to Receive Opoque Finish: Remove dust, grit, and foreign matter. Seal knots, pitch streaks, and sappy sections. Fill nail holes with limited exterior coloring compound after prime coat has been applied. Back prime

interior surfaces with primer.
S. Wood Doors to be Field-Finished: Seal wood door top and bottom edge surfaces with clear sealer.
T. Metal Doors to be Painted: Prime metal door top and bottom edge surfaces.

3.03 APPLICATION

A. Remove unfinished covers, gylles, covers, and access panels on mechanical and electrical coverings, and apply coatings to all nail holes with limited exterior coloring compound after prime coat has been applied. Back prime interior surfaces with primer within 4 weeks.

B. Exterior Wood to Receive Opoque Finish: If final painting must be delayed more than 2 weeks after installation of woodwork, apply primer within 2 weeks and final coating within 4 weeks.

C. Apply products in accordance with manufacturer's instructions.

D. Do not apply finishes to surfaces that are not dry. Allow applied coats to dry before next coat is applied.

E. Apply each coat to uniform appearance.

F. Dark Colors and Deep Color Coats: Regardless of number of coats specified, apply as many coats as necessary for complete hide.

G. Sand wood and metal surfaces lightly between coats to achieve required finish.

H. Wood to Receive Transparent Finishes: Test finish to match wood. Work finish into the grain before seal. Wipe excess off.
I. Reinstate electrical cover plates, hardware, light fixture trim, escutcheons, and hinges removed prior to finishing.

3.04 PROTECTION

A. Protect finished coatings until completion of project.

B. Touch-up damaged coatings after final completion.

SECTION 10 2113.13 METAL TUBULE COMPARTMENTS

1.01 SECTION INCLUDES

A. Coordination: Coordinate the work with placement of support framing and anchors in walls and ceilings.

1.02 PERFORMANCE REQUIREMENTS

A. Assure configuration of components and accessories, and operation of doors and hardware including opening, closing and latching are in compliance with the requirements of the ADA Standards, ANSI A117.1, the Building Code, and local accessibility regulations.

A. Shop Drawings: Indicate partition plan, elevation views, dimensions, details of wall and floor supports, door swings.

B. Product Data: Provide data on panel construction, hardware, and accessories.

2.01 MATERIALS

A. Steel Sheet: Hot-dipped galvanized steel sheet, ASTM A653/A653M, with G90/Z275 coating.

2.02 COMPONENTS

A. Reinforcement: Reinforce with stainless steel mesh, floor-mounted headrail-braced.

B. Doors, Panels, and Plasters: Steel sheet faces, pressure bonded to sound deadening core, formed and closed edges; coreless mesh with corner gyle or inlets, welded, and ground smooth.

C. Panel Faces: 20 gage.
D. Door Faces: 22 gage.
E. Plaster Faces: 20 gage.
F. Reinforcement: Provide in areas of attached hardware and fittings.
G. Mark locations of reinforcement for partition mounted hardware accessories.

C. Larger Panel Dimensions:

- 1. Thickness: 1 inch.
2. Door Width: 24 inches.
3. Door Width for standardized tube: 36

SECTION 31 2323 - FILL AND BACKFILL

- 1.01 PROTECT CONDITIONS
A. Provide sufficient quantities of fill to meet project schedule and requirements.
B. Verify that survey bench marks and intended elevations for the Work are as indicated.
2.01 FILL MATERIALS
A. General Fill: materials as identified in Geotechnical Report.
1. Graded.
2. Free of lumps larger than 3 inches, rocks larger than 2 inches, and debris.
3. Conforming to ASTM D2487 Group Symbol as identified in the Geotechnical Report.
B. Drainage Fill: Gravel: natural washed stone; free of shale, clay, friable material and debris.
1. Graded in accordance with ASTM D 2487 Group Symbol GW.
C. Granular Fill: Gravel: angular crushed washed stone; free of shale, clay, friable material and debris.
1. Graded in accordance with ASTM D2487 Group Symbol GV.
D. Sand: Natural river or bank sand; washed; free of silt, clay, loam, friable or soluble materials, and organic matter.
1. Grade in accordance with ASTM D2487 Group Symbol SW.

- 2.02 ACCESSORIES
A. Geotextile Fabric: Non-biodegradable, water pervious type, non-woven, needle-punched, polyethylene or polyester.
B. Filter Fabric: Water pervious type, black polyolefin.

- 3.01 EXAMINATION
A. Verify that survey bench marks and intended elevations for the Work are as indicated.
B. Identify required lines, levels, contours, and datum locations.
C. Verify subdrainage, dampproofing, or waterproofing installation has been inspected.
D. Verify structural ability of unsupported walls to support imposed loads by the fill.

- 3.02 PREPARATION
A. Review geotechnical report for findings of subsurface conditions and recommendations for excavation work. Follow recommendations, unless otherwise indicated.
B. Cut out soft areas of subgrade not capable of compaction in place. Backfill with general fill.
C. Compact subgrade to density equal to or greater than requirements for subsequent fill material.
D. Until ready to fill, maintain excavations and prevent loose soil from falling into excavation.

- 3.03 FILLING
A. Fill to contours and elevations indicated using unfrozen materials.
B. Employ a placement method that does not disturb or damage other work.
C. Systematically fill to allow maximum time for natural settlement. Do not fill over porous, wet, frozen or spongy subgrade surfaces.
D. Maintain uniform moisture content of fill materials to attain required compaction density.
E. Granular Fill: Place and compact materials in equal continuous layers not exceeding 8 inches compacted depth.
F. Soil Fill: Place and compact material in equal continuous layers not exceeding 8 inches compacted depth.
G. Slope grade away from building minimum 4 inches in 10 ft, unless noted otherwise. Make gradual grade changes. Blend slope into low areas.
H. Correct areas that are over-excavated.
1. Load-bearing foundation surfaces: Fill with lean concrete.
2. Other areas: Use general fill. Fill to required elevations, compacted to minimum 95 percent of maximum dry density.
I. Compaction Density Unless Otherwise Specified or Indicated:
1. 95 percent of maximum dry density.
J. Reshape and re-compact fills subjected to vehicular traffic.

- 3.04 FILL AT SPECIFIC LOCATIONS
A. Use general fill unless otherwise specified or indicated.
B. Under Interior Slabs-On-Grade:
1. Use granular fill.
2. Depth: 4 inches deep.
3. Compact to 95 percent of maximum dry density.
C. At Foundation Walls and Footings:
1. Use general fill.
2. Fill up to subgrade elevation.
3. Compact in maximum 8 inch lifts to 90 percent of maximum dry density in accordance with ASTM D1587.
4. Do not backfill against unsupported foundation walls.
5. Backfill simultaneously on each side of unsupported foundation walls until supports are in place.
D. Over Subdrainage Piping at Foundation Perimeter:
1. Use drainage fill and geotextile fabric.
2. Fill up to subgrade elevation.
3. Compact in maximum 8 inch lifts to 95 percent of maximum dry density.
E. Over Buried Utility Piping and Conduits in Trenches, unless otherwise indicated:
1. Bedding: Use sand.
2. Cover with general fill or granular fill.
3. Fill up to subgrade elevation.
4. Compact in maximum 8 inch lifts to 85 percent of maximum dry density in lawn and landscape areas.
a. Compact in maximum 8" lifts to 95 percent of maximum dry density under pavements and slab on grade.
F. At Lawn Areas:
1. Use general fill.
2. Fill up to subgrade elevations.
3. Compact to 85 percent of maximum dry density.
4. See Section 02310 for topsoil placement.
G. At Planting Areas Other Than Lawns:
1. Use general fill.
2. Fill up to 12 inches below finish grade elevations.
3. Compact to 85 percent of maximum dry density.
4. See Section 02310 for topsoil placement.
H. Under Monolithic Paving:
1. Compact subsoil to 95 percent of its maximum dry density before placing fill.
2. Use general fill.
3. Compact in maximum 8 inch lifts to 95 percent of maximum dry density.

- 3.05 FIELD QUALITY CONTROL
A. Evaluate results in relation to compaction curve determined by testing uncompacted material in accordance with ASTM D698 ("Standard Proctor"), ASTM D 1557 ("modified Proctor"), or AASHTO T 180.
B. If test results indicate work does not meet specified requirements, remove work, replace and retest.
C. Proof roll compacted fill at surfaces that will be under slabs-on-grade and paving.

- 3.06 CLEANING
A. Remove unused stockpiled materials, leave area in a clean and neat condition. Grade stockpile area to prevent standing surface water.
B. Leave borrow areas in a clean and neat condition. Grade to prevent standing surface water.

SECTION 32 1216 - ASPHALT PAVING

- 1.01 REFERENCES
A. AI MS-2 - Mix Design Methods for Asphalt Concrete and Other Hot-Mix Types; The Asphalt Institute; 1994, Sixth Edition.
B. AI MS-19 - A Basic Asphalt Emulsion Manual; The Asphalt Institute; Third Edition.
1.02 QUALITY ASSURANCE
A. Perform Work in accordance with Federal, State, and Local highway department standards.
B. Where requirements overlap, conform to the most stringent.
C. Mixing Plant: Conform to Federal, State and Local highway department standards.
1.03 ENVIRONMENTAL REQUIREMENTS
A. Do not place asphalt when ambient air or base surface temperature is less than 40 degrees F, or surface is wet or frozen.
B. Place hot mix when temperature is not more than 15 F. degrees below minimum supplier's bit of lading and not more than maximum specified temperature.

- 2.01 MATERIALS
A. Asphalt Binder: AASHTO MP 1, PG 64-22.
B. Aggregate for Binder Course: In accordance with Federal, State, and Local Highways standards having jurisdiction, where requirements overlap, conform to the most stringent of the requirements.
C. Aggregate for Wearing Course: In accordance with Federal, State, and Local Highways standards having jurisdiction, where requirements overlap, conform to the most stringent of the requirements.
D. Primer: Homogeneous, medium curing, liquid asphalt.
E. Seal Coat: Homogeneous, medium curing, liquid asphalt.
F. Seal Coat: AI MS-19, fog type.
2.02 ASPHALT PAVING MIXES AND MIX DESIGN
A. Verify that compacted subgrade is dry and ready to support paving and imposed loads.
B. Binder Course: 4.5 to 6 percent of asphalt cement by weight in mixture in accordance with AI MS-2.
C. Wearing Course: 5 to 7 percent of asphalt cement by weight in mixture in accordance with AI MS-2.

- 2.03 BASE COURSE
A. Coarse Aggregate: Angular crushed stone, free of shale, clay, friable material and debris. Graded in accordance with ASTM D2487 Group Symbol GW.
3.01 EXAMINATION
A. Verify that compacted subgrade is dry and ready to support paving and imposed loads.
B. Verify gradients and elevations are correct.

- 3.02 BASE COURSE INSTALLATION
A. Under Bituminous Concrete Paving:
1. Place coarse aggregate to a total compacted thickness matching existing, or a minimum compacted thickness of 6 inches, whichever is greater.
2. Compact to 97 percent of maximum dry density.
3.03 PREPARATION - PRIMER
A. Apply primer in accordance with manufacturer's instructions.
B. Apply primer on aggregate base or subbase at uniform rate of 1/3 gallon sq. ft.
3.04 PREPARATION - TACK COAT
A. Apply tack coat in accordance with manufacturer's instructions.
B. Apply tack coat on asphalt or concrete surfaces over subgrade surface at uniform rate of 1/3 gallon sq. ft.

- 3.05 PLACING ASPHALT PAVEMENT - DOUBLE COURSE
A. Place asphalt binder course within 24 hours of applying primer or tack coat.
B. Place binder course to thickness identified in schedule at end of section.
C. Place wearing course in two hours of placing and compacting binder course.
D. Place wearing course to thickness identified in schedule at end of section.
E. Compact pavement by rolling to specified density. Do not displace or setside pavement from position. Haul or remove excess overexposed to rolling equipment.
3.06 SEAL COAT
A. Apply seal coat to surface courses in accordance with AI MS-19.
3.07 TOLERANCES
A. Flatness: Maximum variation of 1/4 inch measured with 10 foot straight edge.
B. Compacted Thickness: Within 1/4 inch of specified or indicated thickness.
C. Variation from True Elevation: Within 1/2 inch.
3.08 PROTECTION
A. Immediately after placement, protect pavement from mechanical injury for 2 days or until surface temperature is less than 140 degrees F.
3.09 SCHEDULE
A. Paving at Parking Areas: Match existing adjacent, or two courses; binder course of 2-1/2 inch compacted thickness and wearing course of 1-1/2 inch compacted thickness, fog seal coat.

- SECTION 32 8000 - IRRIGATION
1.01 SECTION INCLUDES
A. Design and install a complete system including control system, pipe and fittings, valves, sprinkler heads and accessories.
1.04 SUBMITTALS
A. Shop Drawings: Indicate piping layout to water source, location of sleeves under pavement, location and coverage of sprinkler heads, components, plant and landscaping features, site structures, materials as fittings to be used.
B. Product Data: Provide component and control system and wiring diagrams.
C. Record Documents: Record actual locations of all concealed components piping system.
1.05 QUALITY ASSURANCE
A. Manufacturer's Qualifications: Company specializing in manufacturing products specified in this section, with not less than three years of experience.
B. Installer Qualifications: Company specializing in performing the work of this section with minimum 5 years of experience.
2.01 IRRIGATION SYSTEM
A. Electric solenoid controlled underground irrigation system, with pressure blow-out drain.
2.02 PIPE MATERIALS
A. PVC Pipe: ASTM D2241; 200 psi pressure rated upstream from controls; 160 psi downstream solvent welded sections.
B. Fittings: Type and style of connection to match pipe.
C. Solvent Cement: ASTM D2564 for PVC pipe and fittings.
D. Sleeve Material: PVC.
2.03 OUTLETS
A. Rotary Type Sprinkler Head: Pop-up type with screens; fully adjustable for flow and pressure; size as indicated with letter or symbol designating degree of arc and arrow indicating center of spray pattern.
B. Spray Type Sprinkler Head: Pop-Up head with full circle pattern, square or partial circle pattern to achieve full coverage.
C. Emitter: Adjustable outlet, non-clogging, with trickle tubes to suit plant materials.
2.04 VALVES
A. Gate Valves: Bronze construction non-rising stem.
B. Backflow Preventers: Iron body construction, double check valve type.
2.05 CONTROLS
A. Controller: Automatic controller, microprocessor solid state control with visible readout display, temporary overrides feature to bypass cycle for inclement weather, timer for a multi station system, programmable for 7 days in quarter hour increments, with automatic start and shutdown.
B. Controller Housing: NEMA 250 Type 3; weatherproof, watertight, with lockable access door.

- 3.01 EXAMINATION
A. Verify location of existing utilities.
B. Verify that required utilities are available, in proper location, and ready for use.
3.02 PREPARATION
A. Layout and stake locations of system components.
B. Review layout requirements with other affected work. Coordinate locations of sleeves under paving to accommodate system.
3.03 TRENCHING
A. Maintain trenches free of debris, material, or obstructions that may damage pipe.
3.04 INSTALLATION
A. Install pipe, valves, controls, and outlets in accordance with manufacturer's instructions.
B. Connect to utilities.
C. Set outlets and box covers at finish grade elevations.
D. Provide for thermal movement of components in system.
E. Use threaded nipples for risers to each outlet.
F. After piping is installed, but before outlets are installed and backfilling commences, open valves and flush system with full head of water.
3.05 FIELD QUALITY CONTROL
A. Prior to backfilling, test system for leakage for whole system to maintain 100 psi pressure for one hour.
B. System is acceptable if no leakage or loss of pressure occurs during test period.
3.06 BACKFILLING

- A. Provide 3 inch sand cover over piping.
B. Backfill trench and compact to specified subgrade elevation. Protect piping from displacement.
3.07 SYSTEM STARTUP
A. Prepare and start system in accordance with manufacturer's instructions.
B. Adjust control system to achieve time cycles required.
C. Adjust head types for full water coverage as directed.
3.08 CLOSEOUT ACTIVITIES
A. Remove dirt, debris and other materials from adjacent pavements. Leave broom clean. Restore disturbed areas including lawns, beds and roads.
B. Instruct Owner's personnel in operation and maintenance of system, including adjusting of sprinkler heads. Use operation and maintenance data as basis for demonstration.
3.09 MAINTENANCE
A. Provide one complete spring start-up and a fall shutdown by installer, at no extra cost to Owner.

SECTION 32 9000 - LANDSCAPING

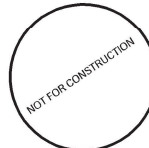
- 1.01 SECTION INCLUDES
A. Preparation of subsoil.
B. Topsoil bedding.
C. New trees, plants, and ground cover.
1.02 QUALITY ASSURANCE
A. Nursery Qualifications: Company specializing in growing and cultivating the plants with three years experience.
B. Installer Qualifications: Company specializing in installing and planting the plants with three years experience.
1.03 DELIVERY, STORAGE, AND HANDLING
A. Deliver plant life materials immediately prior to placement. Keep plants moist.
1.04 FIELD CONDITIONS
A. Do not install plant life when ambient temperatures may drop below 35 degrees F or rise above 90 degrees F. Do not install plant life when wind velocity exceeds 30 mph.

- 2.01 PLANTS
A. Plants: Species and size identified in plant schedule, grown in climatic conditions similar to those in locality of the work.
2.02 SOIL MATERIALS
A. Topsoil: Fertile, agricultural soil, typical for locality, capable of sustaining vigorous plant growth, taken from drainage free of silt, clay or impurities, loam, clay or impurities; minimum pH value of 5.4 and maximum 7.0.
2.03 SOIL AMENDMENT MATERIALS
A. Fertilizer: Containing fifty percent of the elements derived from organic sources; of proportion necessary to eliminate any deficiencies of topsoil, as indicated in analysis.
B. Peat Moss: Shredded, basic, sphagnum moss; free of lumps, roots, inorganic material or acidic materials; minimum of 85 percent organic matter measured by oven dry weight, pH range of 4 to 5; moisture content of 30 percent.
C. Water: Clean, fresh, and free of substances or matter that could inhibit vigorous growth of plants.
2.04 MULCH MATERIALS
A. Mulching Material: Cypress species wood shavings, free of growth or germination inhibiting ingredients.

- 3.01 EXAMINATION
A. Verify that prepared subsoil are ready to receive work.
B. Saturate soil with water to test drainage.
3.02 PREPARATION OF SUBSOIL
A. Prepare subsoil to eliminate uneven areas. Maintain profiles and contours. Make changes in grade gradual. Blend slopes into level areas.
B. Remove foreign materials, weeds and undesirable plants and their roots. Remove contaminated subsoil.
C. Scarify subsoil to a depth of 3 inches where plants are to be placed. Repeat cultivation in areas where equipment, used for hauling and spreading topsoil, has compacted subsoil.
D. Dig pits and beds 6 inches larger than plant root system.
3.03 PLACING TOPSOIL
A. Spread topsoil to a minimum depth of 4 inches over area to be planted. Rake smooth.
B. Place topsoil during dry weather and on dry unfrozen subgrade.
C. Remove vegetable matter and foreign non-organic material from topsoil while spreading.
D. Grade topsoil to eliminate rough, low or soft areas, and to create positive drainage.
E. Install topsoil into pits and beds intended for plant root balls, to a minimum thickness of 6 inches.
3.04 FERTILIZING
A. Apply fertilizer in accordance with manufacturer's instructions.
B. Apply after initial raking of topsoil.
C. Mix thoroughly into upper 2 inches of topsoil.
D. Lightly water to aid the dispersion of fertilizer.
3.05 PLANTING
A. Set plants vertical.
B. Remove non-biodegradable root containers.
C. Set plants in pits or beds, partly filled with prepared plant mix, at a minimum depth of 6 inches under each plant. Remove burble, ropes, and wires, from the root ball.
D. Saturate soil with water when the pit or bed is half full of topsoil and again when full.
3.06 MAINTENANCE
A. Maintain plants for three months after Date of Substantial Completion.
B. Irrigate sufficiently to saturate root system and prevent soil from drying out.
C. Cultivate and weed plant beds and tree pits.
D. Remove dead or broken branches and treat pruned areas or other wounds.
E. Neatly trim plants where necessary. Control insect damage and disease. Apply pesticides in accordance with manufacturer's instructions.



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SVA ENGINEER
SVA ARCHITECTURE
SVA INTERIOR DESIGNER
SVA ELECTRICAL ENGINEER
SVA LIGHTING ENGINEER



FL LIC. AR98966 exp. 2/28/2023

FIRE STATION 24 EXPANSION
OVERSEAS HIGHWAY & EAST DRIVE
KEY LARGO, FL 33037
KEY LARGO FIRE RESCUE & EMS
OVERSEAS HWY & EAST DR., KEY LARGO, FL 33037

SHEET TITLE:
SPECIFICATIONS

ORIGINAL SIZE: PROJECT NUMBER:
24 x 36 21003
DRAWN BY: CHECKED BY:
Designer Checker

Table with 2 columns: CREATION DATE, DATE ISSUED FOR, DATE

Table with 2 columns: REVISION, DATE

SHEET NUMBER:
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PLOTTED:
2/17/2023 9:48 AM
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SHEET NOTES / CODED NOTES

GENERAL NOTES:

1. ALL WALLS ARE TYPE 1 U.N.O.
2. REFER TO WALL SECTIONS FOR EXTERIOR WALL ASSEMBLY.
3. ALL LUMBER TO BE PRESSURE TREATED U.N.O.
4. REFER TO FINISH LEGEND.
5. ALL DOORS ARE 4" FROM ADJACENT WALL OR CENTERED U.N.O.

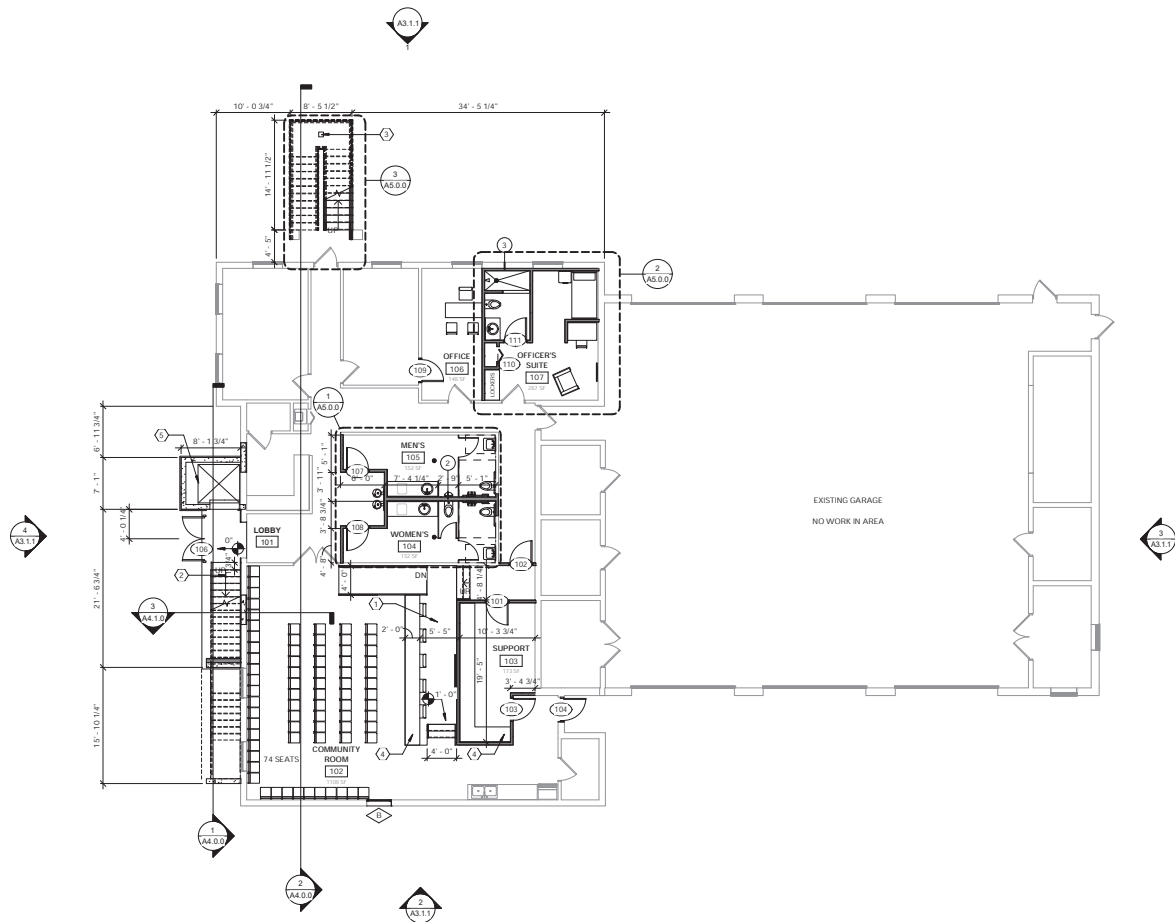
PLAN NOTES:

- ① NEW RAISED CONCRETE PLATFORM.
- ② NEW 6" CONCRETE SLAB.
- ③ NEW 8x8 CONCRETE COLUMN TO UNDERSIDE OF LANDING.
- ④ NEW 2'-0" DEEP COUNTER MOUNTED AT 2'-10" AFF.
- ⑤ NEW ELEVATOR TO BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.

CONSULTANTS
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STRUCTURAL ENGINEER
MECHANICAL ENGINEER
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FL LIC. AR99860 exp. 2/28/2023



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

FIRE STATION 24 EXPANSION
OVERSEAS HIGHWAY & EAST DRIVE
KEY LARGO, FL 33037
KEY LARGO FIRE RESCUE & EMS
OVERSEAS HWY & EAST DR., KEY LARGO, FL 33037

SHEET TITLE:
FIRST FLOOR PLAN

ORIGINAL SIZE: 24 x 36
PROJECT NUMBER: 21003
DRAWN BY: PDB
CHECKED BY: PDB

CREATION DATE:	DATE
ISSUED FOR:	DATE

REVISION	DATE

SHEET NUMBER:
A2.1.1



FIRE STATION 24 EXPANSION
 OVERSEAS HIGHWAY & EAST DRIVE
 KEY LARGO, FL 33037
KEY LARGO FIRE RESCUE & EMS
 OVERSEAS HWY & EAST DR., KEY LARGO, FL 33037

SHEET TITLE:
SECOND FLOOR PLAN

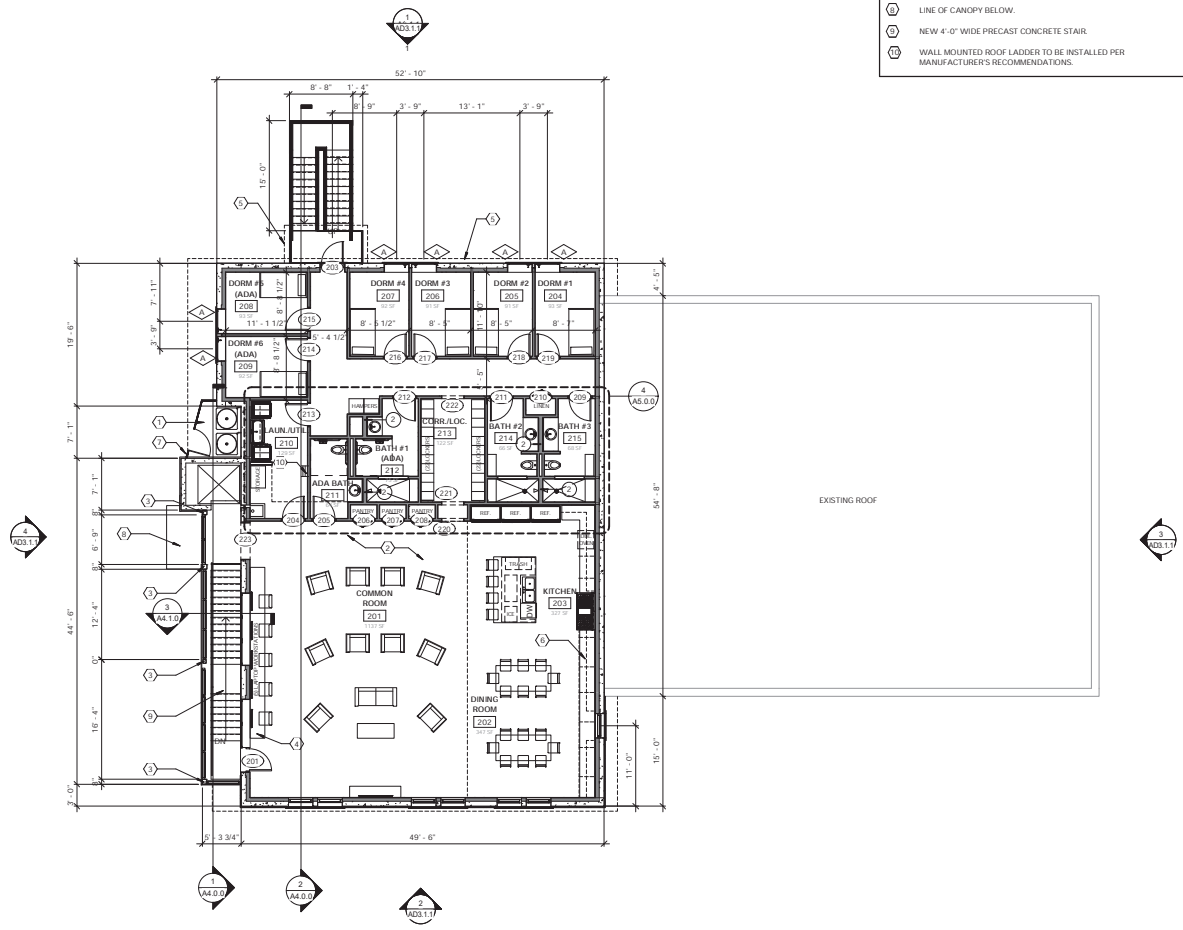
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 DRAWN BY: CHECKED BY:
 PDB PDB

CREATION DATE:	DATE:
ISSUED FOR:	DATE:

REVISION	DATE

SHEET NUMBER:
A2.1.2
 PLOTTED:
 2/17/2023 10:12 AM
 2021 LITTLE RED ROOSTER.LLC

- SHEET NOTES / CODED NOTES**
- GENERAL NOTES:**
- ALL WALLS ARE TYPE 1 U.N.O.
 - REFER TO WALL SECTIONS FOR EXTERIOR WALL ASSEMBLY.
 - ALL LUMBER TO BE PRESSURE TREATED U.N.O.
 - REFER TO FINISH LEGEND.
 - ALL DOORS ARE 4" FROM ADJACENT WALL OR CENTERED U.N.O.
- PLAN NOTES:**
- NEW 6" CONCRETE PLATFORM
 - NEW 2" CONCRETE SLAB TOPPER ON EXISTING ROOF STRUCTURE.
 - NEW 8x8 STEEL TUBE COLUMN.
 - NEW 2'-0" DEEP COUNTER MOUNTED AT 2'-10" AFF
 - LINE OF CANOPY/ROOF ABOVE.
 - NEW 2'-0" DEEP COUNTER MOUNTED AT 2'-10" AFF WITH UPPER CABINETS MOUNTED AT 5'-0" AFF.
 - 3'-0" GUARDRAIL AND 3'-0" WIDE GATE
 - LINE OF CANOPY BELOW.
 - NEW 4'-0" WIDE PRECAST CONCRETE STAIR.
 - WALL MOUNTED ROOF LADDER TO BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.



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

SHEET NOTES / CODED NOTES / LEGEND

GENERAL NOTES:

- REFER TO MECHANICAL DRAWINGS FOR MECHANICAL COMPONENT SPECIFICATIONS AND SCOPE.
- REFER TO ELECTRICAL DRAWINGS FOR LIGHTING SPECIFICATIONS AND SCOPE.
- CENTER GRID / TILE IN ROOM SHOWN U.N.O.
- LIGHTS ARE CENTERED IN ROOM SHOWN U.N.O.

PLAN NOTES:

- CANOPY ABOVE. REFER TO ELEVATIONS.
- ⊕ PRECAST STAIR ABOVE.
- ⊖ CONCRETE LANDING ABOVE.

CEILING LEGEND

	NEW RETURN AIR. REFER TO MECH.
	NEW SUPPLY AIR. REFER TO MECH.
	NEW 2X4 CEILING GRID
	NEW 2X2 PARABOLIC LIGHT FIXTURE. REFER TO ELECTRICAL PLANS.
	NEW 6" DIA. CAN LIGHT FIXTURE. REFER TO ELECTRICAL PLANS.
	CEILING TAG O.T.S. - OPEN TO STRUCTURE A.C.T. - ACOUSTICAL CEILING TILE E.T.R. - EXISTING TO REMAIN O.T.A. - OPEN TO ABOVE

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FIRE STATION 24 EXPANSION
OVERSEAS HIGHWAY & EAST DRIVE
KEY LARGO, FL 33037

KEY LARGO FIRE RESCUE & EMS
OVERSEAS HWY & EAST DR., KEY LARGO, FL 33037

SHEET TITLE:
FIRST FLOOR REFLECTED CEILING PLAN

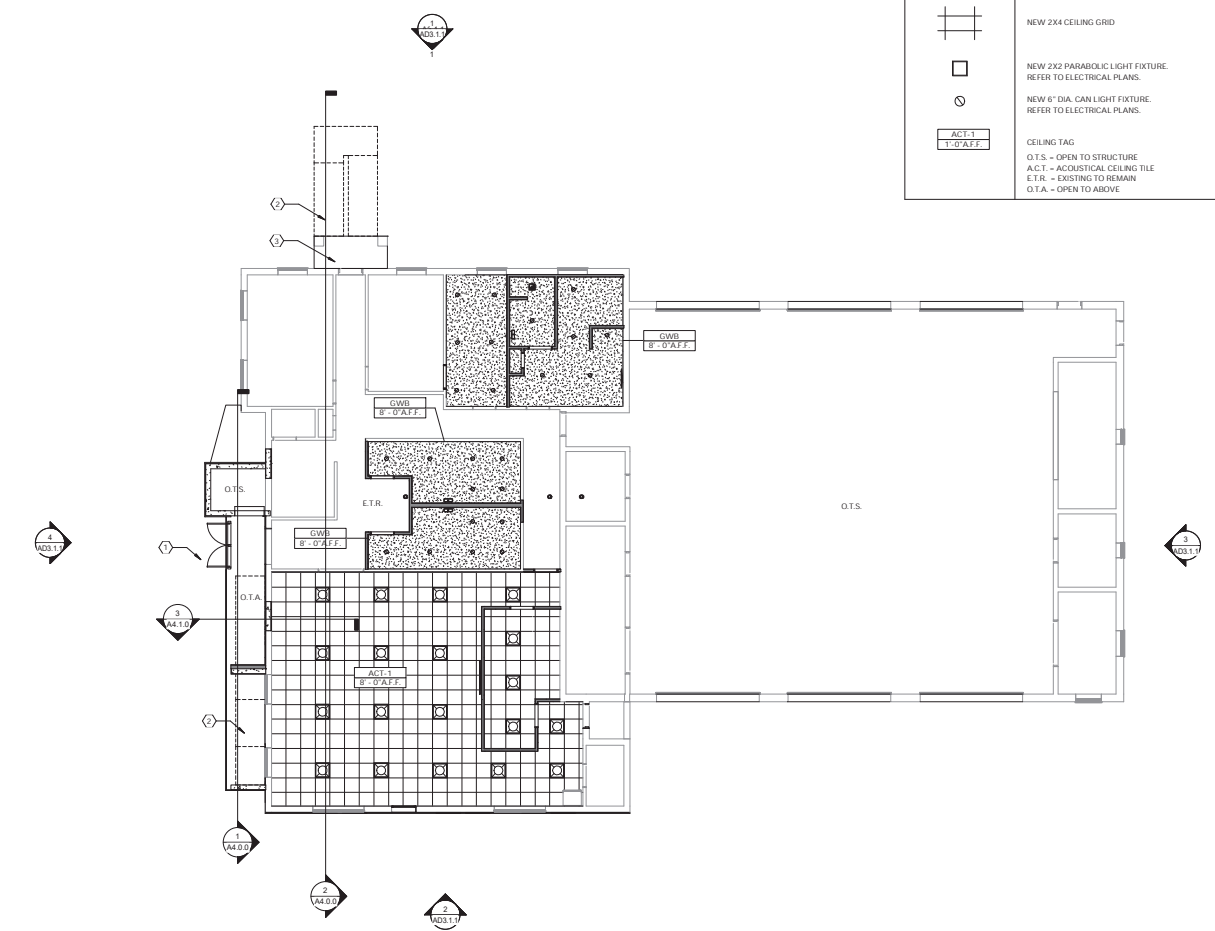
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CREATION DATE:	DATE:
ISSUED FOR:	DATE:

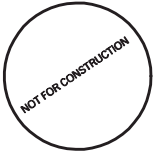
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2021 LITTLE RED ROOSTER LLC



1 REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"



FIRE STATION 24 EXPANSION
 OVERSEAS HIGHWAY & EAST DRIVE
 KEY LARGO, FL 33037
KEY LARGO FIRE RESCUE & EMS
 OVERSEAS HWY & EAST DR., KEY LARGO, FL 33037

SHEET TITLE:
SECOND FLOOR REFLECTED CEILING PLAN

ORIGINAL SIZE: PROJECT NUMBER:
 24 x 36 21003
 DRAWN BY: CHECKED BY:
 PDB PDB

CREATION DATE:	DATE
ISSUED FOR:	DATE:

REVISION	DATE

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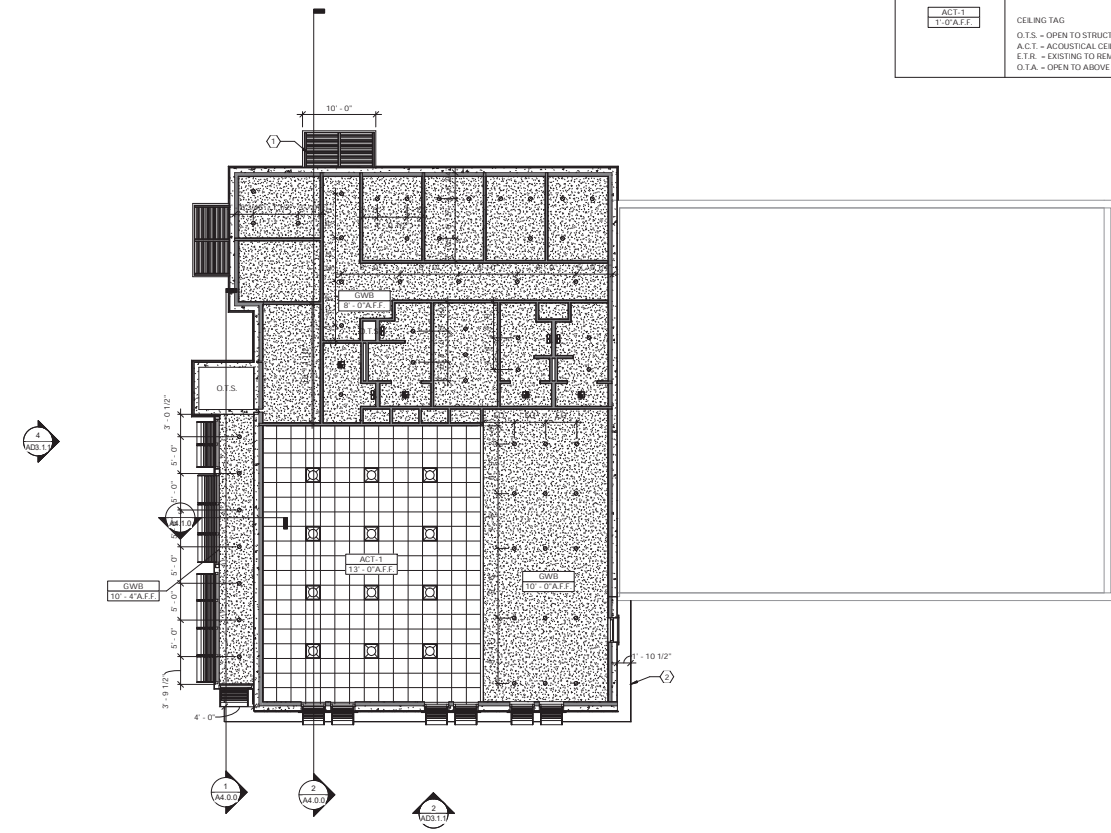
SHEET NOTES / CODED NOTES / LEGEND

- GENERAL NOTES:**
- REFER TO MECHANICAL DRAWINGS FOR MECHANICAL COMPONENT SPECIFICATIONS AND SCOPE.
 - REFER TO ELECTRICAL DRAWINGS FOR LIGHTING SPECIFICATIONS AND SCOPE.
 - CENTER GRID / TILE IN ROOM SHOWN U.N.O.
 - LIGHTS ARE CENTERED IN ROOM SHOWN U.N.O.

- PLAN NOTES:**
- CANOPY ABOVE, REFER TO ELEVATIONS.
 -
 -

CEILING LEGEND

- ◻ NEW RETURN AIR, REFER TO MECH.
- ⊠ NEW SUPPLY AIR, REFER TO MECH.
- ⊞ NEW 2X4 CEILING GRID
- ◻ NEW 2X2 PARABOLIC LIGHT FIXTURE, REFER TO ELECTRICAL PLANS.
- NEW 6" DIA. CAN LIGHT FIXTURE, REFER TO ELECTRICAL PLANS.
- ACT.1
1'-0" AFF. CEILING TAG
- O.T.S. - OPEN TO STRUCTURE
- A.C.T. - ACOUSTICAL CEILING TILE
- E.T.R. - EXISTING TO REMAIN
- O.T.A. - OPEN TO ABOVE



1 REFLECTED CEILING PLAN
 SCALE: 1/8" = 1'-0"

GENERAL ROOFING NOTES:

GENERAL NOTES:

- REFER TO STRUCTURAL FOR SHEATING AND COMPONENTS & CLADDING.
- REFER TO WALL SECTIONS FOR ADDITIONAL INFORMATION.
- REFER TO ELEVATIONS FOR PRODUCT / MATERIAL INFORMATION.

PLAN NOTES:

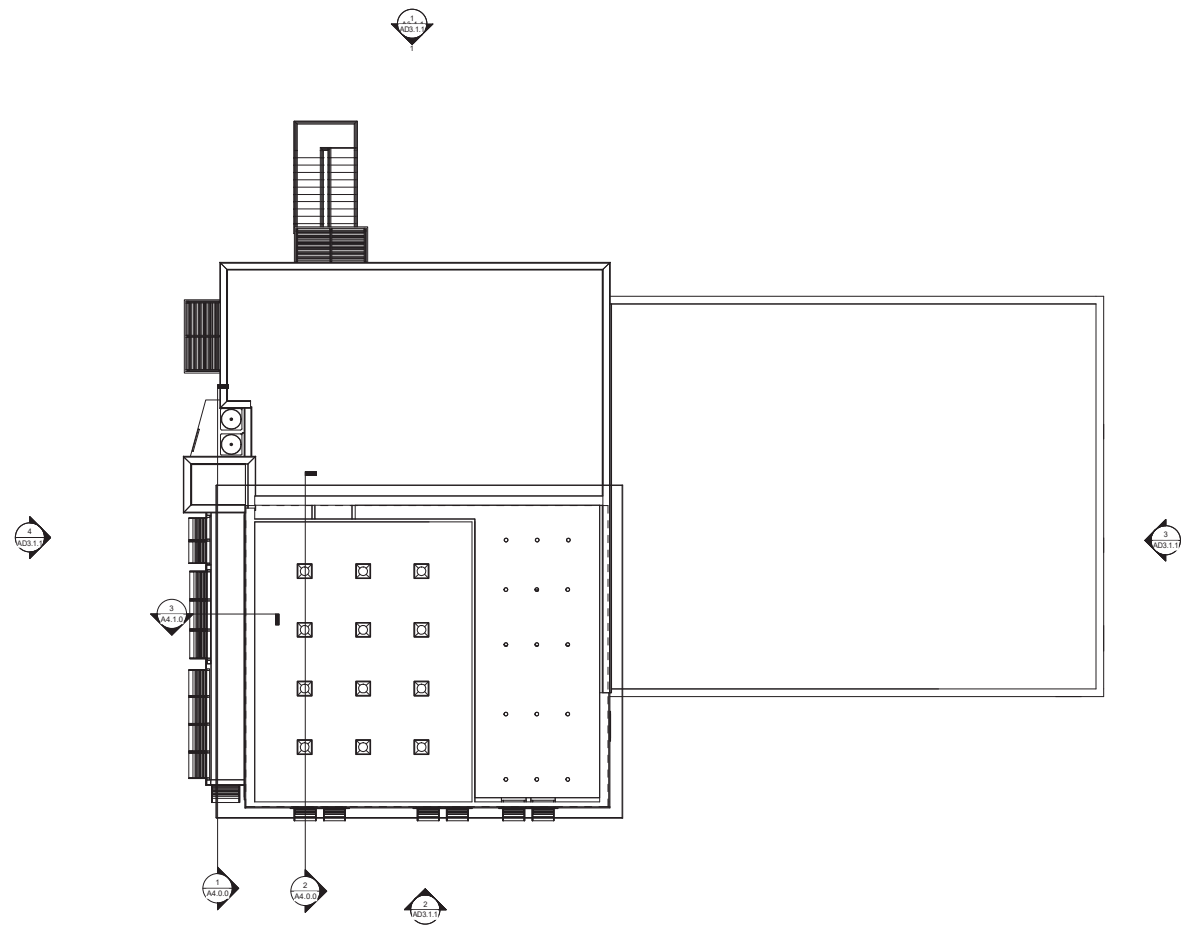
① NEW TPO ON (2) 2" RIGID INSULATION ON NEW ROOF DECK. REFER TO SECTIONS FOR ADDITIONAL INFORMATION.

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

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 OVERSEAS HIGHWAY & EAST DRIVE
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KEY LARGO FIRE RESCUE & EMS
 OVERSEAS HWY & EAST DR., KEY LARGO, FL 33037

SHEET TITLE:
ROOF PLAN

ORIGINAL SIZE: PROJECT NUMBER:
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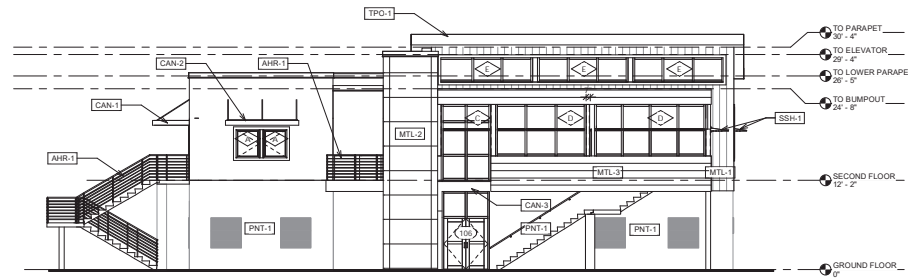
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ISSUED FOR:	DATE:

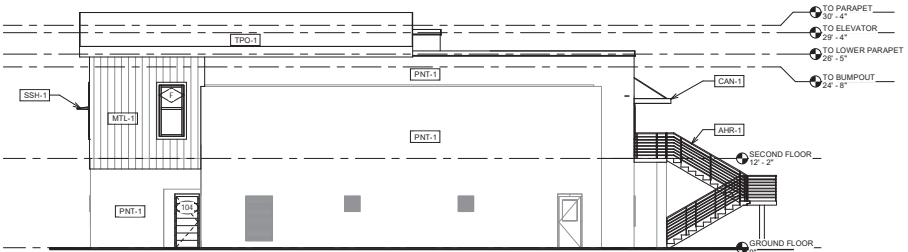
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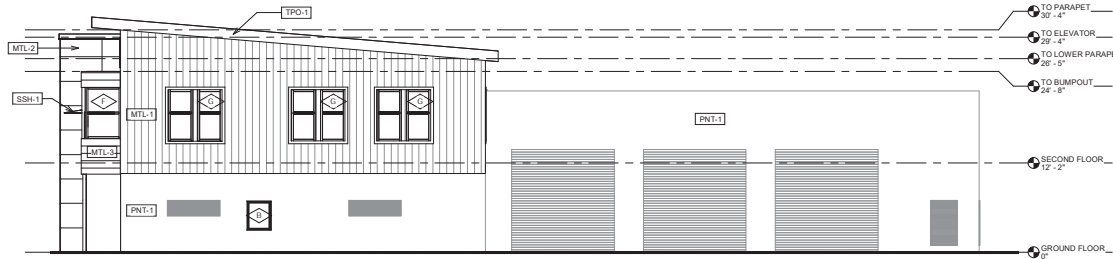
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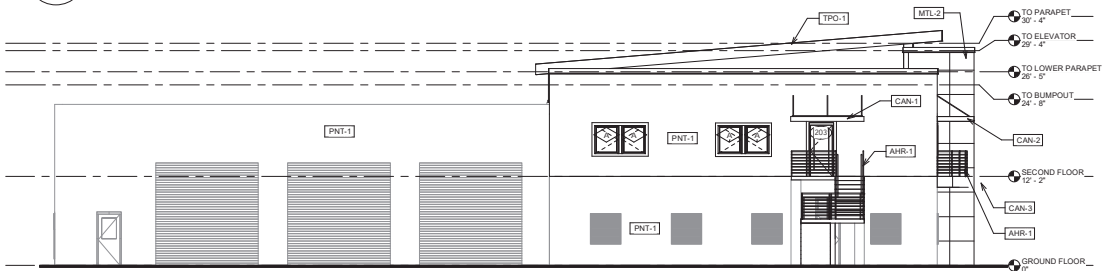
4 WEST ELEVATION
SCALE: 1/8" = 1'-0"



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



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



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

ELEVATION NOTES / CODED NOTES
GENERAL NOTES:
1. ALL ELEVATIONS ARE 1929 NGVD
2. REFER TO SPECIFICATIONS FOR ADDITIONAL SELECTIVE DEMOLITION REQUIREMENTS
3. REFER TO WALL SECTIONS FOR INSTALLATION REQUIREMENTS
4. REFER TO STRUCTURAL DRAWINGS FOR COMPONENTS & CLADDING
5. SIGNAGE TO BE COORDINATED BY OWNER, INSTALLED BY C.C.

TAG	DESCRIPTION	BASIS OF DESIGN	MODEL	COLOR	DIMENSIONS	PRODUCT APPROVAL	NOTES
AHR-1	ALUMINUM HANDRAIL SYSTEM						
CAN-1	ALUMINUM CANOPY	MAPES	LUMISHADE				
CAN-2	ALUMINUM CANOPY	MAPES	LUMISHADE				
CAN-3	ALUMINUM CANOPY	MAPES	LUMISHADE				
MTL-1	COPPER METAL WALL PANEL	3A COMPOSITES					
MTL-2	METAL WALL PANEL	3A COMPOSITES					
MTL-3	METAL WALL PANEL	3A COMPOSITES					
PNT-1	EXTERIOR LATEX PAINT	SHERWIN-WILLIAMS					
SSH-1	SUNSHADE			ALUMINUM			
TPO-1	ROOFING	KAWNEER					

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FIRE STATION 24 EXPANSION
OVERSEAS HIGHWAY & EAST DRIVE
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KEY LARGO FIRE RESCUE & EMS
OVERSEAS HWY & EAST DR., KEY LARGO, FL 33037

SHEET TITLE:
EXTERIOR ELEVATIONS

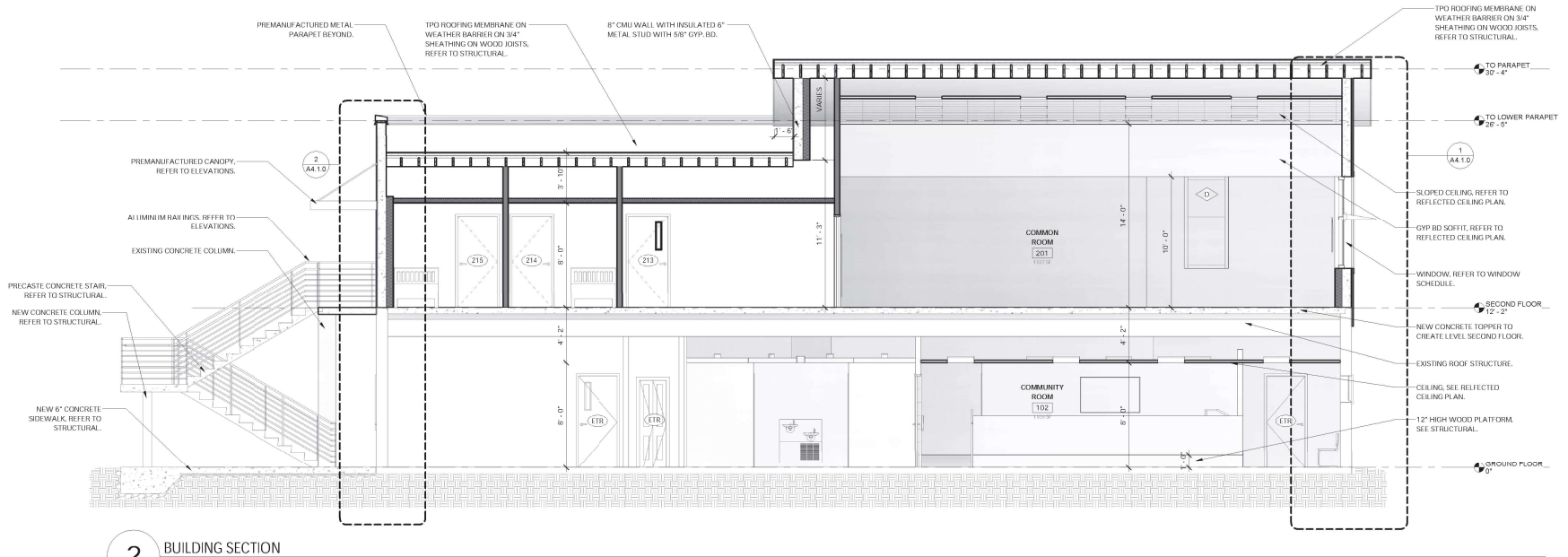
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CREATION DATE:	DATE
ISSUED FOR:	DATE

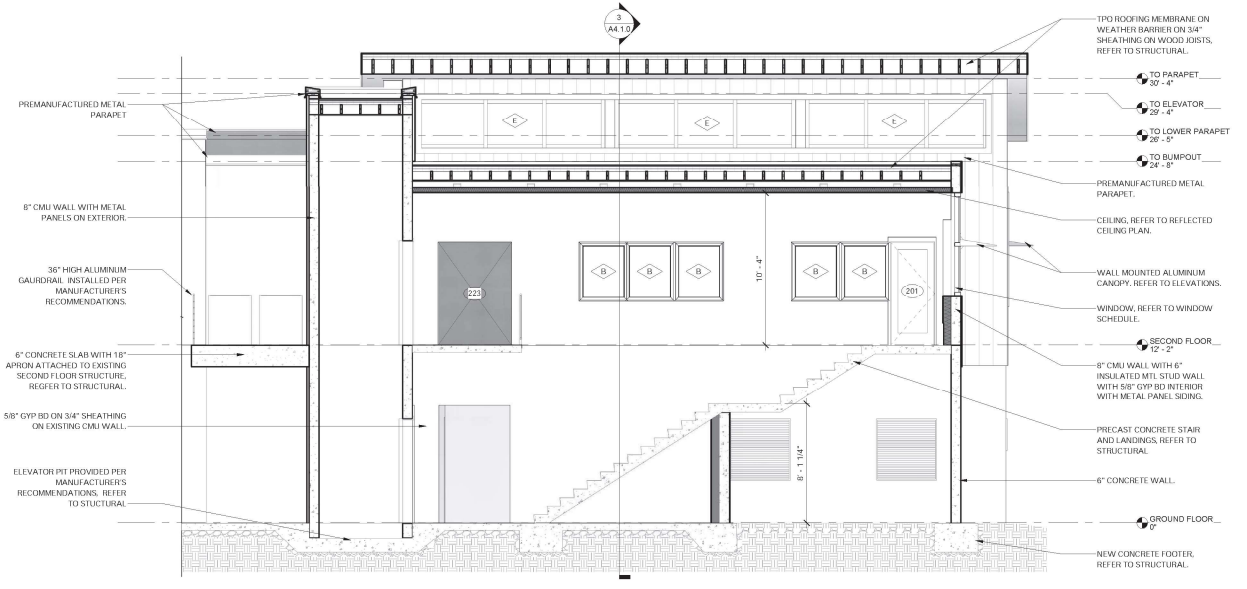
REVISION	DATE

SHEET NUMBER:
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2 BUILDING SECTION
SCALE: 1/4" = 1'-0"



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



FIRE STATION 24 EXPANSION
OVERSEAS HIGHWAY & EAST DRIVE
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KEY LARGO FIRE RESCUE & EMS
OVERSEAS HWY & EAST DR., KEY LARGO, FL 33037

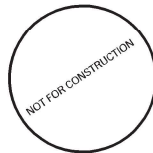
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BUILDING SECTIONS

ORIGINAL SIZE: PROJECT NUMBER:
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DRAWN BY: CHECKED BY:
PDB PDB

CREATION DATE:	DATE
ISSUED FOR:	DATE:

REVISION	DATE

SHEET NUMBER:
A4.0.0



FIRE STATION 24 EXPANSION
 OVERSEAS HIGHWAY & EAST DRIVE
 KEY LARGO, FL 33037
KEY LARGO FIRE RESCUE & EMS
 OVERSEAS HWY & EAST DR., KEY LARGO, FL 33037

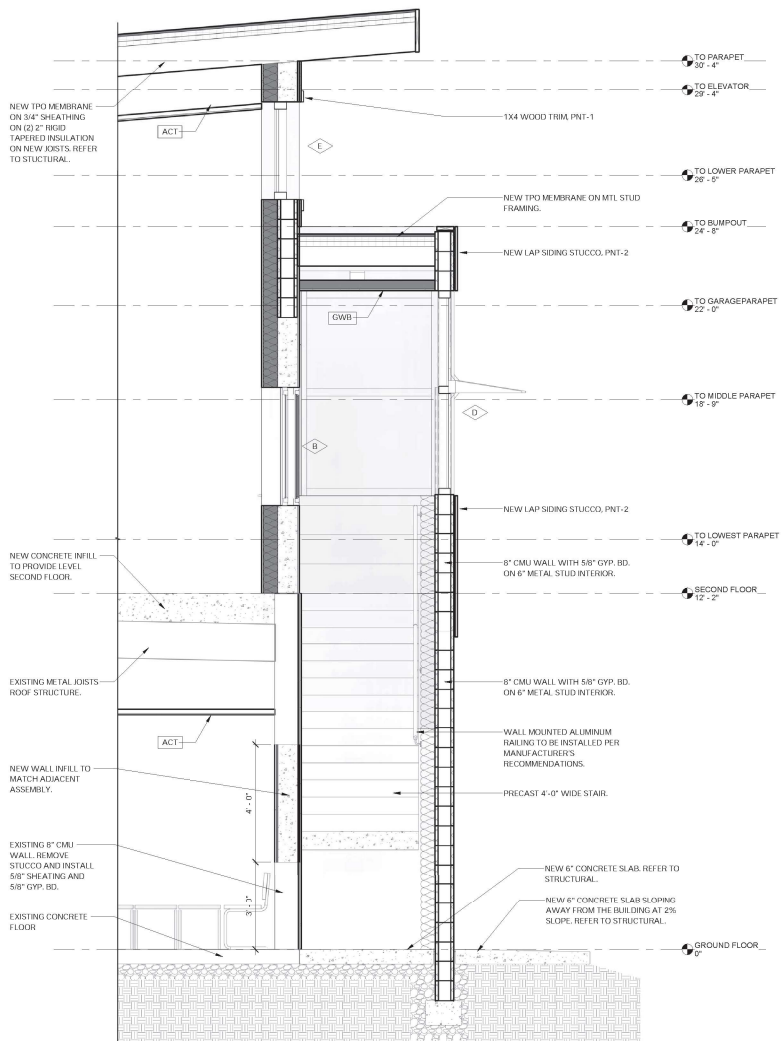
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WALL SECTIONS

ORIGINAL SIZE: PROJECT NUMBER:
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 DRAWN BY: CHECKED BY:
 PDB PDB

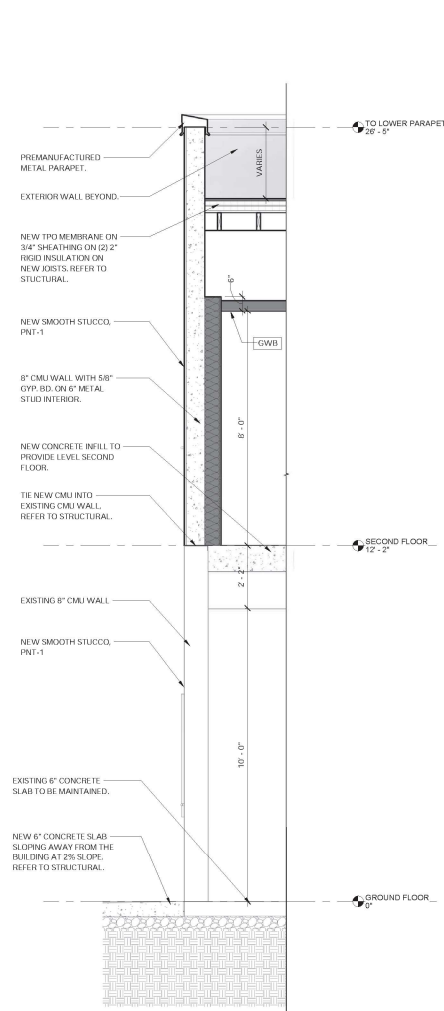
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REVISION	DATE

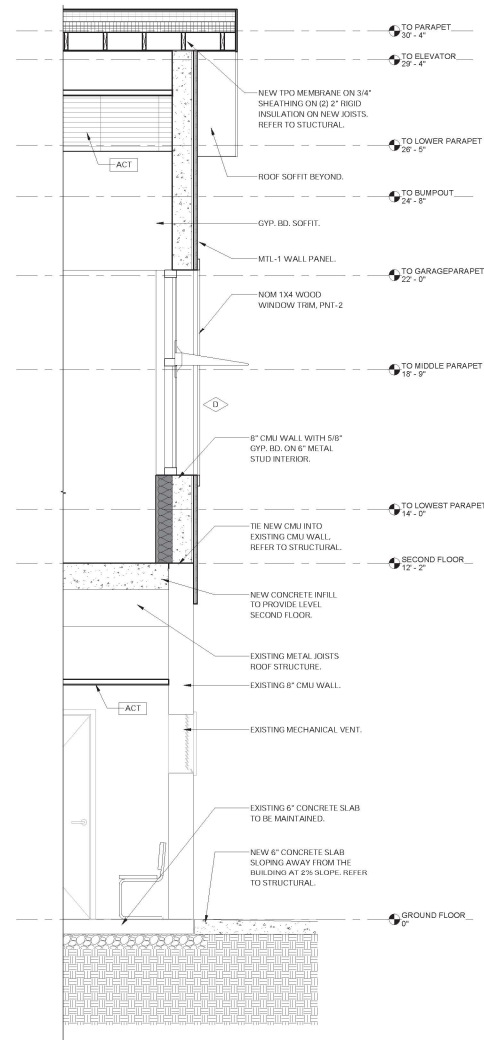
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3 WALL SECTION THU STAIR
 SCALE: 1/2" = 1'-0"



2 TYPICAL WALL SECTION
 SCALE: 1/2" = 1'-0"

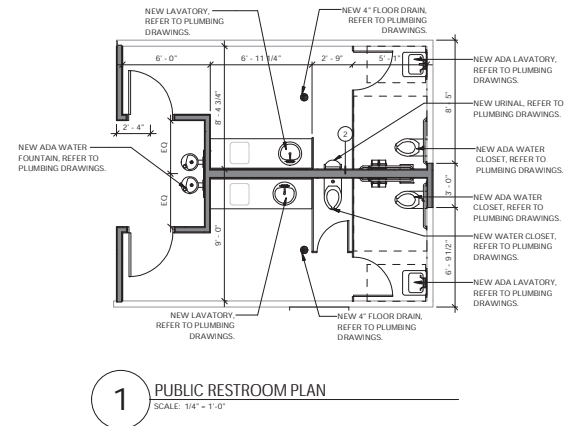
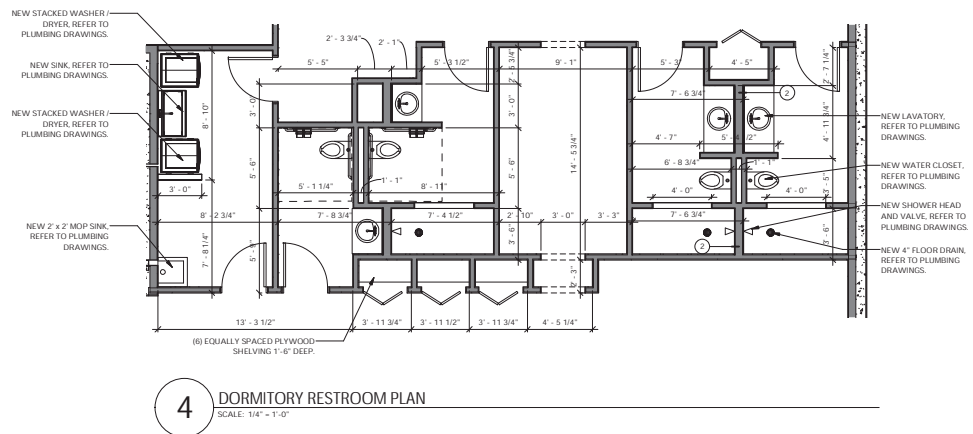
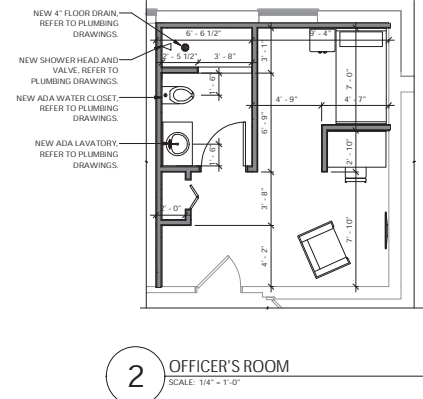
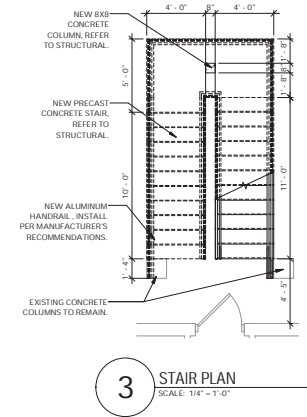


1 TYPICAL WALL SECTION
 SCALE: 1/2" = 1'-0"



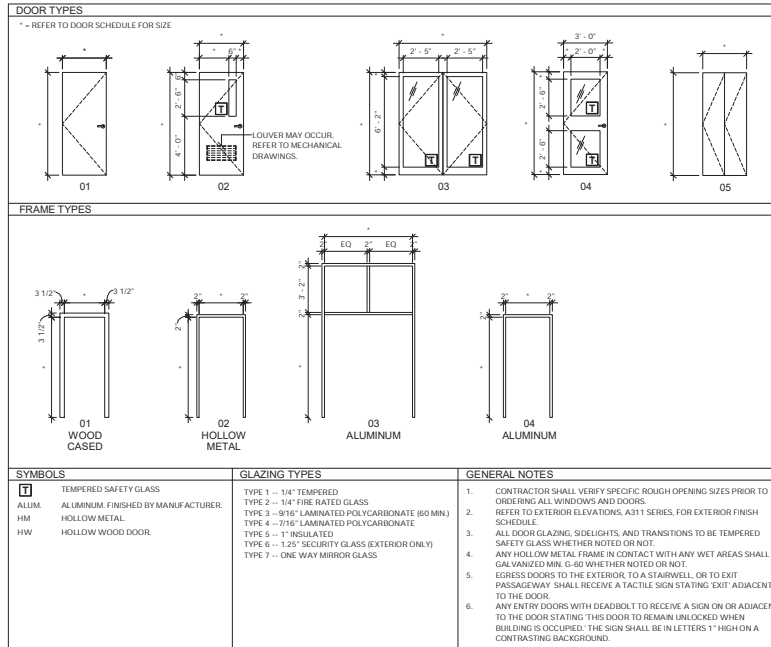
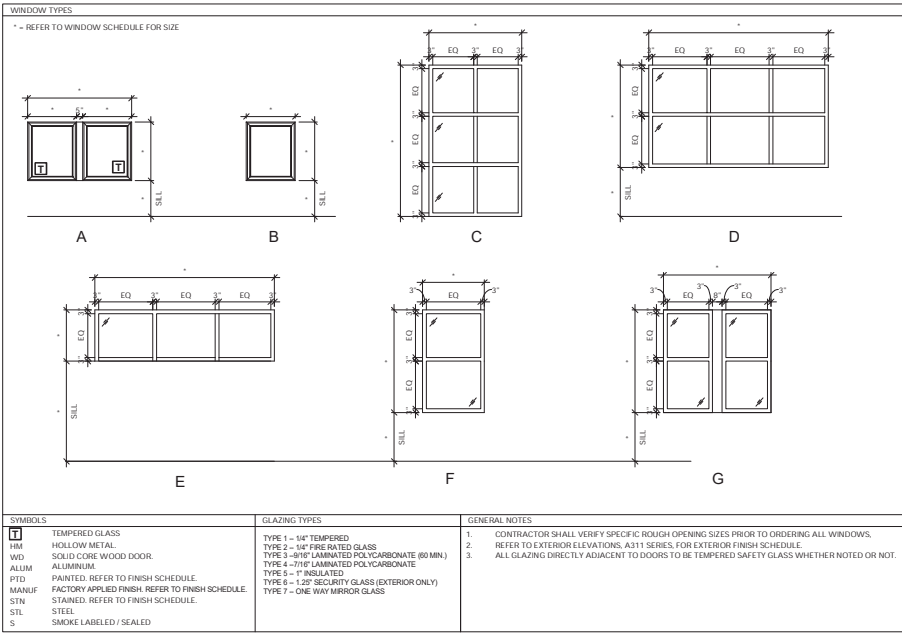
CREATION DATE:	DATE
ISSUED FOR:	DATE:

REVISION	DATE



WINDOW SCHEDULE													
TAG	DESCRIPTION	WINDOW				DIMENSIONS			GLAZING TYPE	MANUFACTURER	MODEL	DESIGN PRESSURES	NOA #
		INTERIOR	EXTERIOR	INTERIOR	EXTERIOR	FRAME (W x H)	ROUGH OP'G (W x H)	SILL HEIGHT (AF)					
A	Casement					3' - 4" x 4' - 0"	3' - 4 1/2" x 4' - 0 1/2"	3' - 0"		CGI Windows & Doors	238		
B	Fixed					3' - 4" x 4' - 0"	3' - 4 1/2" x 4' - 0 1/2"	3' - 0"		CGI Windows & Doors	238		

DOOR SCHEDULE												
DOOR NO.	TYPE	MATEL	NOMINAL SIZE	FINISH	FRAME			HARDWARE	NOA #	NOTES		
					TYPE	MATEL	FINISH				GLAZING	
101	1	HW	7' - 0" X 3' - 0"	PNT	1	WD	PNT	-				
102	1	HW	7' - 0" X 3' - 0"	-	1	WD	-	-				
103	1	HW	7' - 0" X 3' - 0"	-	1	WD	-	-				
104	1	HM	7' - 0" X 3' - 0"	PNT	2	HM	PNT	-				
106	3	ALUM	7' - 0" X 3' - 0"	-	3	ALUM	-	-		THRESHOLD		
107	1	HW	7' - 0" X 3' - 0"	-	1	WD	-	-				
108	1	HW	7' - 0" X 3' - 0"	-	1	WD	-	-				
109	1	HW	7' - 0" X 3' - 0"	-	1	WD	-	-				
110	4	HW	6' - 0" X 2' - 0"	PNT	1	WD	PNT	-				
111	1	HW	7' - 0" X 3' - 0"	-	1	WD	-	-				
201	5	ALUM	7' - 0" X 3' - 0"	-	4	ALUM	-	2		THRESHOLD		
203	5	ALUM	7' - 0" X 3' - 0"	-	4	ALUM	-	2		THRESHOLD		
204	2	HW	7' - 0" X 3' - 0"	PNT	1	WD	PNT	3				
205	1	HW	7' - 0" X 3' - 0"	-	1	WD	-	-				
206	4	HW	7' - 0" X 3' - 0"	PNT	1	WD	PNT	-				
207	4	HW	7' - 0" X 3' - 0"	-	1	WD	-	-				
208	4	HW	7' - 0" X 3' - 0"	-	1	WD	-	-				
209	1	HW	7' - 0" X 3' - 0"	-	1	WD	-	-				
210	4	HW	7' - 0" X 3' - 0"	-	1	WD	-	-				
211	1	HW	7' - 0" X 3' - 0"	-	1	WD	-	-				
212	1	HW	7' - 0" X 3' - 0"	-	1	WD	-	-				
213	2	HW	7' - 0" X 3' - 0"	-	1	WD	3	-				
214	1	HW	7' - 0" X 3' - 0"	-	1	WD	-	-				
215	1	HW	7' - 0" X 3' - 0"	-	1	WD	-	-				
216	1	HW	7' - 0" X 3' - 0"	-	1	WD	-	-				
217	1	HW	7' - 0" X 3' - 0"	-	1	WD	-	-				
218	1	HW	7' - 0" X 3' - 0"	-	1	WD	-	-				
219	1	HW	7' - 0" X 3' - 0"	-	1	WD	-	-				
220	-	-	7' - 0" X 3' - 0"	-	1	WD	PNT	-		FRAMED OPENING		
221	-	-	7' - 0" X 3' - 0"	-	1	WD	-	-		FRAMED OPENING		
222	-	-	7' - 0" X 3' - 0"	-	1	WD	-	-		FRAMED OPENING		
223	-	-	7' - 0" X 3' - 0"	-	2	HM	PNT	-		FRAMED OPENING		



FIRE STATION 24 EXPANSION
OVERSEAS HIGHWAY & EAST DRIVE
KEY LARGO, FL 33037
KEY LARGO FIRE RESCUE & EMS
OVERSEAS HWY & EAST DR., KEY LARGO, FL 33037

SHEET TITLE:
SCHEDULES AND
DETAILS

ORIGINAL SIZE: 24 x 36
PROJECT NUMBER: 21003
DRAWN BY: PDB
CHECKED BY: PDB

CREATION DATE:	DATE
ISSUED FOR:	DATE

REVISION	DATE

SHEET NUMBER:

A6.1.1

PLOTTED:
31/03/2024 09:38 AM
2021 LITTLE RED ROOSTER LLC







KEY LARGO FIRE RESCUE AND EMS DISTRICT
FISCAL YEAR 21-22
OCTOBER, NOVEMBER, DECEMBER 2021 & YTD ACTUALS VERSUS BUDGET

	<u>Oct 21</u>	<u>Nov 21</u>	<u>Dec 21</u>	<u>Oct - Dec 21</u>	<u>Budget</u>	<u>% of Budget</u>
Revenue						
311.000 · Ad Valorem Taxes	133.89	2,314,960.24	884,927.25	3,200,021.38	3,891,931.00	82.22%
201.01 · SAFER Grant - personnel	0.00	0.00	0.00	0.00	28,852.00	0.0%
338.002 · ILA Remib Frm Monroe County	0.00	0.00	0.00	0.00	150,000.00	0.0%
361.100 · Interest	335.08	368.90	546.69	1,250.67	4,800.00	26.06%
369.901 · Miscellaneous Revenue	0.00	3,250.00	129.43	3,379.43	0.00	100.0%
Total Revenue	468.97	2,318,579.14	885,603.37	3,204,651.48	4,075,583.00	78.63%
Expenditures						
1100 · District Board						
511.110 · Board Member Stipends	700.00	1,750.00	1,750.00	4,200.00	21,000.00	20.0%
511.210 · FICA/Medicare	133.85	133.90	133.85	401.60	1,607.00	24.99%
511.240 · Workmens Compensation Insurance	752.00	0.00	0.00	752.00	1,000.00	75.2%
511.400 · Travel & Per Diem	0.00	0.00	0.00	0.00	4,000.00	0.0%
511.411 · Advertising	228.95	85.00	223.50	537.45	5,500.00	9.77%
511.450 · Insurance & Risk Management						
450.01 · Bond	29.17	0.00	70.83	100.00	100.00	100.0%
450.02 · Portfolio Policy & Auto	1,858.86	0.00	0.00	1,858.86	2,133.00	87.15%
Total 511.450 · Insurance & Risk Management	1,888.03	0.00	70.83	1,958.86	2,233.00	87.72%
511.470 · Printing & Binding	0.00	0.00	0.00	0.00	3,000.00	0.0%
511.490 · General Departmental						
490.01 · Tax Collector Fees	3.97	69,448.68	26,547.81	96,000.46	116,758.00	82.22%
490.02 · Property Appraiser Fees	0.00	17,260.34	0.00	17,260.34	68,579.00	25.17%
490.03 · Other	0.00	0.00	0.00	0.00	1,000.00	0.0%
Total 511.490 · General Departmental	3.97	86,709.02	26,547.81	113,260.80	186,337.00	60.78%
511.510 · Office Supplies	0.00	0.00	0.00	0.00	500.00	0.0%
511.540 · Dues, Subscriptions	3,391.29	749.90	0.00	4,141.19	4,000.00	103.53%
512.311 · District Clerk Svcs (Prof Svcs)	0.00	0.00	0.00	0.00	19,000.00	0.0%
513.320 · Accounting & Financial Svcs						
513.01 · District Audit	0.00	0.00	5,000.00	5,000.00	10,000.00	50.0%
513.02 · Financial and Accounting	2,044.13	2,339.75	1,373.25	5,757.13	60,000.00	9.6%
Total 513.320 · Accounting & Financial Svcs	2,044.13	2,339.75	6,373.25	10,757.13	70,000.00	15.37%
514.310 · Legal Services (Prof Svcs)	3,741.00	1,600.00	1,600.00	6,941.00	45,000.00	15.42%
Total 1100 · District Board	12,883.22	93,367.57	36,699.24	142,950.03	363,177.00	39.36%
1250 · Key Largo Volunteer Fire						
522.120 · Regular Salaries & Wages						
120.04 · Firefighters	75,448.38	70,917.45	64,088.09	210,453.92	1,055,573.00	19.94%
120.06 · Administrative Stipend	2,250.00	2,250.00	2,250.00	6,750.00	27,000.00	25.0%
Total 522.120 · Regular Salaries & Wages	77,698.38	73,167.45	66,338.09	217,203.92	1,082,573.00	20.06%
522.121 · Volunteer Pay						
121.03 · Volunteer/Line Officer Reim.	11,846.36	11,860.47	8,850.89	32,557.72	125,000.00	26.05%
Total 522.121 · Volunteer Pay	11,846.36	11,860.47	8,850.89	32,557.72	125,000.00	26.05%
522.140 · Overtime Wages						
522.210 · FICA/Medicare	8,708.06	8,008.72	7,531.33	24,248.11	107,679.00	22.52%
522.220 · Retirement Benefits	6,071.71	2,127.96	3,564.22	11,763.89	80,000.00	14.71%
522.230 · Life & Health Insurance	10,173.29	9,277.43	8,168.80	27,619.52	134,508.00	20.53%
522.240 · Workers Compensation	61,930.39	0.00	0.00	61,930.39	55,572.00	111.44%
522.250 · Unemployment Tax	0.00	0.00	19.33	19.33	2,835.00	0.68%
522.312 · Professional Services						
312.03 · Grant Writing Services	0.00	0.00	0.00	0.00	2,805.00	0.0%
312.04 · Annual Physicals	0.00	0.00	0.00	0.00	22,440.00	0.0%
312.05 · Background checks & Drug Testin	0.00	0.00	0.00	0.00	1,000.00	0.0%
Total 522.312 · Professional Services	0.00	0.00	0.00	0.00	26,245.00	0.0%
522.320 · Accounting & Financial Svcs	748.95	676.82	840.18	2,265.95	12,900.00	17.57%
522.400 · Travel & Per Diem	0.00	0.00	0.00	0.00	1,000.00	0.0%
522.410 · Phones - Station Phones, Cell	878.17	1,498.52	1,641.16	4,017.85	15,000.00	26.79%
522.411 · Advertising	0.00	0.00	0.00	0.00	520.00	0.0%
522.412 · Postage & Freight	0.00	0.00	0.00	0.00	520.00	0.0%

KEY LARGO FIRE RESCUE AND EMS DISTRICT
FISCAL YEAR 21-22
OCTOBER, NOVEMBER, DECEMBER 2021 & YTD ACTUALS VERSUS BUDGET

	<u>Oct 21</u>	<u>Nov 21</u>	<u>Dec 21</u>	<u>Oct - Dec 21</u>	<u>Budget</u>	<u>% of Budget</u>
522.430 · Utilities						
430.01 · Electric	2,207.08	2,036.52	2,069.40	6,313.00	28,091.00	22.47%
430.02 · Water	796.47	669.83	739.14	2,205.44	10,404.00	21.2%
430.03 · Fire Hydrant Maintenance	0.00	0.00	0.00	0.00	15,200.00	0.0%
430.04 · Propane Gas	0.00	0.00	93.00	93.00	400.00	23.25%
430.07 · TV Service	425.42	425.42	425.42	1,276.26	5,500.00	23.21%
Total 522.430 · Utilities	3,428.97	3,131.77	3,326.96	9,887.70	59,595.00	16.59%
522.440 · Rent & Leases						
440.01 · Copier/Scanner/Fax Lease	293.10	0.00	599.57	892.67	3,550.00	25.15%
440.02 · Oxygen Tank Rental	0.00	0.00	0.00	0.00	500.00	0.0%
440.03 · DEP Station 25 Lease Pymt	0.00	300.00	0.00	300.00	300.00	100.0%
440.04 · Red Alert Incident Reporting	0.00	0.00	0.00	0.00	7,500.00	0.0%
440.05 · Fire Manager- Schedule & Time	0.00	0.00	0.00	0.00	2,200.00	0.0%
Total 522.440 · Rent & Leases	293.10	300.00	599.57	1,192.67	14,050.00	8.49%
522.450 · Insurance & Risk Management						
450.03 · Package Policy	53,167.19	0.00	0.00	53,167.19	59,711.00	89.04%
450.04 · Accident & Sickness	2,968.00	0.00	0.00	2,968.00	5,610.00	52.91%
450.06 · Statutory AD&D	2,055.00	0.00	0.00	2,055.00		
450.07 · Storage Tank Liability	1,714.00	0.00	0.00	1,714.00	1,785.00	96.02%
450.11 · Cancer Policy	1,595.00	0.00	0.00	1,595.00	1,831.00	87.11%
Total 522.450 · Insurance & Risk Management	61,499.19	0.00	0.00	61,499.19	68,937.00	89.21%
522.46 · Repair & Maintenance						
522.460 · Repair & Maint - Equipment	0.00	1,115.62	245.74	1,361.36	25,000.00	5.45%
522.461 · Repair & Maint - Buildings	1,932.04	710.00	1,518.99	4,161.03	17,000.00	24.48%
522.462 · Repair & Maint - Vehicles	374.37	8,363.31	819.70	9,557.38	56,100.00	17.04%
Total 522.46 · Repair & Maintenance	2,306.41	10,188.93	2,584.43	15,079.77	98,100.00	15.37%
522.470 · Printing & Binding	0.00	0.00	0.00	0.00	104.00	0.0%
522.490 · General Departmental						
490.05 · Other	0.00	0.00	0.00	0.00	1,500.00	0.0%
490.06 · Computer/IT Services	892.50	510.00	722.50	2,125.00	6,500.00	32.69%
Total 522.490 · General Departmental	892.50	510.00	722.50	2,125.00	8,000.00	26.56%
522.491 · Training						
491.01 · Instructor Fees	0.00	468.22	2,185.89	2,654.11	34,000.00	7.81%
491.03 · Fire Prevention	2,987.05	0.00	0.00	2,987.05	3,000.00	99.57%
491.04 · Education, Student Text	200.00	0.00	200.00	400.00	1,000.00	40.0%
491.05 · KAPLAN online Education	4,500.00	0.00	0.00	4,500.00	4,845.00	92.88%
Total 522.491 · Training	7,687.05	468.22	2,385.89	10,541.16	42,845.00	24.6%
522.510 · Office Supplies	1,999.61	0.00	768.31	2,767.92	5,200.00	53.23%
522.520 · Operating Supplies						
520.01 · Fire Ground Safety	1,278.00	905.25	166.87	2,350.12	1,000.00	235.01%
520.02 · Daily Operating/Maint Supplies	3,081.76	17,320.64	228.96	20,631.36	10,000.00	206.31%
520.03 · Medical Supplies & Equipment	353.31	1,537.48	397.89	2,288.68	8,160.00	28.05%
520.05 · Stat Cleaning/Hskping Supplies	415.09	28.58	149.97	593.64	5,000.00	11.87%
520.06 · Firefighting Gear	1,885.41	858.30	151.32	2,895.03	18,000.00	16.08%
520.07 · Clothing & Apparel	0.00	0.00	0.00	0.00	9,000.00	0.0%
520.08 · Firefighting Foam or Sup Agnt	0.00	0.00	0.00	0.00	8,000.00	0.0%
Total 522.520 · Operating Supplies	7,013.57	20,650.25	1,095.01	28,758.83	59,160.00	48.61%
522.521 · Fuel - Gasoline	0.00	0.00	0.00	0.00	75.00	0.0%
522.522 · Fuel - Diesel	0.00	5,766.84	0.00	5,766.84	15,000.00	38.45%
522.540 · Dues, Subscriptions	6,088.90	479.88	0.00	6,568.78	3,162.00	207.74%
522.6 · Capital Expenditures						
522.630 · Capital Outlay-Infr. Imprvmnts	0.00	8,400.00	0.00	8,400.00	150,000.00	5.6%
522.640 · Capital Outlay - Equipment	12,872.69	0.00	4,518.75	17,391.44	21,250.00	81.84%
522.642 · Capital - Small Tools & Equip	0.00	0.00	1,599.00	1,599.00	7,500.00	21.32%
Total 522.6 · Capital Expenditures	12,872.69	8,400.00	6,117.75	27,390.44	178,750.00	15.32%
Total 1250 · Key Largo Volunteer Fire	306,423.47	176,174.47	137,814.01	620,411.95	2,397,330.00	25.88%
1300 · Key Largo EMS						

KEY LARGO FIRE RESCUE AND EMS DISTRICT
FISCAL YEAR 21-22
OCTOBER, NOVEMBER, DECEMBER 2021 & YTD ACTUALS VERSUS BUDGET

	<u>Oct 21</u>	<u>Nov 21</u>	<u>Dec 21</u>	<u>Oct - Dec 21</u>	<u>Budget</u>	<u>% of Budget</u>
526.120 · Regular Salaries & Wages						
120.01 · Administrative Payroll	1,271.00	1,476.00	1,722.00	4,469.00	43,520.00	10.27%
120.02 · Paramedic Payroll	16,957.44	31,494.33	32,925.68	81,377.45	295,982.00	27.49%
Total 526.120 · Regular Salaries & Wages	18,228.44	32,970.33	34,647.68	85,846.45	339,502.00	25.29%
526.121 · Volunteer Pay	11,346.80	12,790.00	11,096.00	35,232.80	113,492.00	31.04%
526.140 · Overtime Wages	125.10	10,316.77	6,507.55	16,949.42	75,000.00	22.6%
526.210 · FICA/Medicare	3,662.92	4,289.88	3,997.22	11,950.02	51,867.00	23.04%
526.220 · Retirement Contributions	154.27	359.81	171.30	685.38	34,240.00	2.0%
526.230 · Life & Health Insurance	2,189.08	4,713.09	4,285.76	11,187.93	49,984.00	22.38%
526.240 · Worker's Compensation	21,516.61	0.00	0.00	21,516.61	22,194.00	96.95%
526.250 · Unemployment Tax	5.58	13.85	12.70	32.13	300.00	10.71%
526.312 · Professional Services						
312.02 · Medical Director	1,500.00	1,500.00	1,500.00	4,500.00	18,543.00	24.27%
312.06 · Drug Testing & Background Check	6.50	761.70	0.00	768.20	780.00	98.49%
312.07 · Grant Writing Services	0.00	0.00	0.00	0.00	2,081.00	0.0%
Total 526.312 · Professional Services	1,506.50	2,261.70	1,500.00	5,268.20	21,404.00	24.61%
526.320 · Accounting & Financial Svcs	974.90	946.28	0.00	1,921.18	11,985.00	16.03%
526.400 · Travel & Per Diem	0.00	0.00	0.00	0.00	2,000.00	0.0%
526.410 · Phones, Station & Cell	1,358.79	1,513.51	1,259.67	4,131.97	10,924.00	37.83%
526.411 · Advertising	0.00	0.00	0.00	0.00	416.00	0.0%
526.412 · Postage & Freight	0.00	0.00	0.00	0.00	364.00	0.0%
526.430 · Utilities						
430.05 · Electric & Propane	1,107.29	900.57	841.77	2,849.63	12,500.00	22.8%
430.06 · Water	128.06	129.02	129.02	386.10	2,000.00	19.31%
Total 526.430 · Utilities	1,235.35	1,029.59	970.79	3,235.73	14,500.00	22.32%
526.440 · Rental & Leases	772.23	378.23	378.23	1,528.69	4,682.00	32.65%
526.450 · Insurance & Risk Management						
450.08 · Package Policy	0.00	20,004.00	0.00	20,004.00	34,767.00	57.54%
450.09 · Auto	0.00	6,760.00	0.00	6,760.00	10,710.00	63.12%
450.10 · Disability Insurance	2,793.87	0.00	0.00	2,793.87	3,825.00	73.04%
Total 526.450 · Insurance & Risk Management	2,793.87	26,764.00	0.00	29,557.87	49,302.00	59.95%
526.46 · Repair & Maintenance						
526.460 · Repair & Maint - Equipment	1,662.87	826.50	6,034.95	8,524.32	42,917.00	19.86%
526.461 · Repair & Maint - Buildings	753.89	759.00	900.00	2,412.89	26,010.00	9.28%
526.462 · Repair & Maint - Vehicles	130.45	2,051.64	6,789.90	8,971.99	48,000.00	18.69%
Total 526.46 · Repair & Maintenance	2,547.21	3,637.14	13,724.85	19,909.20	116,927.00	17.03%
526.470 · Printing & Binding	0.00	0.00	0.00	0.00	1,301.00	0.0%
526.490 · General Dept. - Misc.						
490.08 · Computer/IT Services	0.00	0.00	0.00	0.00	6,242.00	0.0%
490.10 · Employee Assistance Program	180.00	90.00	90.00	360.00	1,224.00	29.41%
490.12 · Membership & Retention	0.00	0.00	0.00	0.00	2,601.00	0.0%
Total 526.490 · General Dept. - Misc.	180.00	90.00	90.00	360.00	10,067.00	3.58%
526.491 · Training - Instructor Fees, Edu						
491.07 · ACLS/PALS	0.00	0.00	0.00	0.00	1,561.00	0.0%
491.10 · Misc. Training/Books	0.00	0.00	0.00	0.00	936.00	0.0%
491.11 · Advanced Airway Management	0.00	0.00	0.00	0.00	2,497.00	0.0%
491.20 · Advanced Stroke Life Support	0.00	0.00	0.00	0.00	2,497.00	0.0%
491.21 · Training Mannequin	0.00	0.00	0.00	0.00	3,750.00	0.0%
491.22 · Fire EMS Academy	0.00	0.00	0.00	0.00	1,873.00	0.0%
Total 526.491 · Training - Instructor Fees, Edu	0.00	0.00	0.00	0.00	13,114.00	0.0%
526.510 · Office Supplies	263.17	495.96	0.00	759.13	2,601.00	29.19%
526.520 · Operating Supplies						
520.09 · Station Supplies	272.32	276.61	250.82	799.75	14,000.00	5.71%
520.10 · Medical Supplies	5,799.06	2,520.16	3,382.09	11,701.31	63,000.00	18.57%
520.11 · Uniforms & Membership Supplies	0.00	0.00	0.00	0.00	6,500.00	0.0%
520.13 · Small Tools	0.00	0.00	0.00	0.00	6,000.00	0.0%
Total 526.520 · Operating Supplies	6,071.38	2,796.77	3,632.91	12,501.06	89,500.00	13.97%

KEY LARGO FIRE RESCUE AND EMS DISTRICT
FISCAL YEAR 21-22
OCTOBER, NOVEMBER, DECEMBER 2021 & YTD ACTUALS VERSUS BUDGET

	Oct 21	Nov 21	Dec 21	Oct - Dec 21	Budget	% of Budget
526.522 · Fuel - Diesel	0.00	0.00	0.00	0.00	14,000.00	0.0%
526.524 · Medicine & Drugs	3,825.09	1,232.28	1,762.24	6,819.61	21,624.00	31.54%
526.540 · Dues, Subscriptions	225.00	0.00	6,988.45	7,213.45	12,311.00	58.59%
526.6 · Capital Expenditures						
526.620 · Capital Outlay - Buildings	0.00	0.00	0.00	0.00	3,250.00	0.0%
526.641 · Capital Outlay - Vehicles	0.00	0.00	0.00	0.00	466,624.00	0.0%
Total 526.6 · Capital Expenditures	0.00	0.00	0.00	0.00	469,874.00	0.0%
Total 1300 · Key Largo EMS	78,982.29	106,599.19	91,025.35	276,606.83	1,553,475.00	17.81%
Total Expenditures	398,288.98	376,141.23	265,538.60	1,039,968.81	4,313,982.00	24.11%
Net Excess/(Deficiency) of Revenues Over/(Under) Expenditures	-397,820.01	1,942,437.91	620,064.77	2,164,682.67	-238,399.00	
511.911 · Transfer to Vehicle Replacement Fund	18,750.00	18,750.00	18,750.00	56,250.00	225,000.00	
Net Excess/(Deficiency) of Revenues Over/(Under) Expenditures after transfer to Reserves	\$ (416,570.01)	\$ 1,923,687.91	\$ 601,314.77	\$ 2,108,432.67	\$ (463,399.00)	



KEY LARGO EMS MONTHLY CALL STATISTICS 2022

Total Year Up to Date	177
Total Year Up to Date >103MM	44
Last Updated: 02/09/22	








TYPE OF CALLS	ALS	BLS	BACK-UP	PEDIATRIC	TRAUMA ALERTS	CARDIAC ARRESTS	PUBLIC ASSISTS	STAND-BY	FIRES	CANCEL	REFUSALS	TRANSPORTS	MUTUAL AID	MM >103	TOTAL CALLS
JANUARY	101	25	31	7	1	0	20	3	0	4	24	126	6	44	177
FEBRUARY												0			0
MARCH												0			0
APRIL												0			0
MAY												0			0
JUNE												0			0
JULY												0			0
AUGUST												0			0
SEPTEMBER												0			0
OCTOBER												0			0
NOVEMBER												0			0
DECEMBER												0			0

Alarms by Day of Week

Key Largo Fire Department

Date Range: From 12/01/2021 to 12/31/2021

Fixed Property:

Day of Week		Totals
Sunday		10
Monday		7
Tuesday		4
Wednesday		16
Thursday		7
Friday		21
Saturday		13

No Date 0
Total Alarms 78

Incident Run Log

Key Largo Fire Department

Date Range: From 12/01/2021 to 12/31/2021

Fixed Property:

Company: All Companies

Sorted by: Not selected

Date	FDID	Incident#	Alarm	###	Address	Suite	Type	Lgth
12/17/2021	38032	2021-000835	01:33	9523	OVERSEAS HWY		Building fire	4.2
12/18/2021	38032	2021-000844	14:04	1	EAST DRIVE 99MM OC		Dumpster or other outside trash receptacle fire	0.3
12/04/2021	38032	2021-000808	15:32	1079	OVERSEAS HWY		Medical assist, assist EMS crew	0.4
12/11/2021	38032	2021-000824	15:30	51	SHORELAND DR		Medical assist, assist EMS crew	0.5
12/16/2021	38032	2021-000834	17:54	4	BLACKWATER LN NORTH	114	Medical assist, assist EMS crew	0.4
12/17/2021	38032	2021-000841	21:29	100	HAMMOCK TRAIL	1305	Medical assist, assist EMS crew	0.5
12/18/2021	38032	2021-000842	02:06	522	CARIBBEAN DR		Medical assist, assist EMS crew	0.1
12/22/2021	38032	2021-000855	15:35	1016	OVERSEAS HWY	47	Medical assist, assist EMS crew	0.0
12/24/2021	38032	2021-000860	15:22	45	GARDEN COVE		Medical assist, assist EMS crew	1.1
12/31/2021	38032	2021-000874	16:50	1079	OVERSEAS HWY		Medical assist, assist EMS crew	0.6
12/15/2021	38032	2021-000833	15:15	1	EAST DR		Emergency medical service incident, other	0.4
12/01/2021	38032	2021-000802	20:45	1	EAST DR		EMS call, excluding vehicle accident with injury	0.4
12/08/2021	38032	2021-000814	09:32	9863	LEEWARD AVE		EMS call, excluding vehicle accident with injury	1.1
12/09/2021	38032	2021-000817	10:43	1	EAST DR		EMS call, excluding vehicle accident with injury	0.1
12/09/2021	38032	2021-000821	16:03	1002	OVERSEAS HWY		EMS call, excluding vehicle accident with injury	0.1
12/15/2021	38032	2021-000831	10:45		99MM US1		EMS call, excluding vehicle accident with injury	0.4
12/17/2021	38032	2021-000838	09:37	4	BLACKWATER LN NORTH	114	EMS call, excluding vehicle accident with injury	0.0
12/17/2021	38032	2021-000837	15:32	4	BLACKWATER LN	114	EMS call, excluding vehicle accident with injury	0.4
12/17/2021	38032	2021-000839	20:14	2	SOUTH DR		EMS call, excluding vehicle accident with injury	0.8
12/18/2021	38032	2021-000845	16:01	1050	OVERSEAS HWY		EMS call, excluding vehicle accident with injury	1.1
12/20/2021	38032	2021-000850	08:26	11	OCEAN DR N C 1.5		EMS call, excluding vehicle accident with injury	0.4
12/21/2021	38032	2021-000851	13:30	1014	OVERSEAS HWY		EMS call, excluding vehicle accident with injury	0.3
12/24/2021	38032	2021-000861	18:32	14	SWALLOW RD		EMS call, excluding vehicle accident with injury	0.5
12/25/2021	38032	2021-000862	10:00	20	DRURY DR		EMS call, excluding vehicle accident with injury	0.5
12/25/2021	38032	2021-000863	14:52		CR 905 / C-1MM		EMS call, excluding vehicle accident with injury	0.6
12/26/2021	38032	2021-000864	18:41	940	PLANTATION RD		EMS call, excluding vehicle accident with injury	0.3
12/27/2021	38032	2021-000866	11:00	6	BUNTING DR		EMS call, excluding vehicle accident with injury	0.6
12/27/2021	38032	2021-000867	11:41	210	1 CT WEST		EMS call, excluding vehicle accident with injury	0.8
12/29/2021	38032	2021-000870	15:00	41	BAHAMA AVE		EMS call, excluding vehicle accident with injury	1.5
12/29/2021	38032	2021-000871	16:23	323	3 RD		EMS call, excluding vehicle accident with injury	0.4
12/03/2021	38032	2021-000803	06:08		US1	NB	Motor vehicle accident with injuries	1.2
12/08/2021	38032	2021-000813	05:42	101	US1	NB	Motor vehicle accident with injuries	1.0
12/11/2021	38032	2021-000825	21:14	144	2 LN		Motor vehicle accident with injuries	0.8
12/17/2021	38032	2021-000836	05:46	9523	OVERSEAS HWY		Motor vehicle accident with injuries	0.5
12/17/2021	38032	2021-000840	19:39	9807	OVERSEAS HWY		Motor vehicle accident with injuries	0.5
12/18/2021	38032	2021-000843	09:45		ATLANTIC AVE / 99.6 MM OC		Motor vehicle accident with injuries	0.3
12/21/2021	38032	2021-000852	14:14	9795	OVERSEAS HWY		Motor vehicle accident with injuries	0.3
12/23/2021	38032	2021-000857	07:38	1004	OVERSEAS HWY		Motor vehicle accident with injuries	0.3
12/24/2021	38032	2021-000859	10:55	1079	OVERSEAS HWY		Motor vehicle accident with injuries	1.0
12/27/2021	38032	2021-000868	16:28		STATE ROAD 905	SB	Motor vehicle accident with injuries	0.6
12/31/2021	38032	2021-000875	17:14	1061	OVERSEAS HWY		Motor vehicle accident with injuries	0.2
12/01/2021	38032	2021-000800	17:37	410	3 ST		Motor vehicle/pedestrian accident (MV Ped)	0.3
12/12/2021	38032	2021-000827	11:30	98	OVERSEAS HWY		Motor vehicle accident with no injuries.	1.0
12/23/2021	38032	2021-000858	11:38	273	LOWER MATECUMBE		Power line down	0.4
12/28/2021	38032	2021-000869	08:51	13	SEAGATE BLVD		Power line down	1.0
12/04/2021	38032	2021-000806	10:02		US1		Assist police or other governmental agency	1.6
12/13/2021	38032	2021-000829	14:30	1060	OVERSEAS HWY		Public service	0.6
12/18/2021	38032	2021-000846	09:00	99	O/S HWY		Public service	3.0
12/01/2021	38032	2021-000801	19:57		SILVER SHORES / 96 MM OC		Dispatched & canceled en route	0.1
12/11/2021	38032	2021-000823	09:46	180	MARINA AVE		Dispatched & canceled en route	0.0
12/13/2021	38032	2021-000828	12:10	1024	OVERSEAS HWY		Dispatched & canceled en route	0.1
12/26/2021	38032	2021-000865	21:03	408	BIG PINE RD		Dispatched & canceled en route	0.0
12/03/2021	38032	2021-000804	13:56	1024	OVERSEAS HWY		Steam, vapor, fog or dust thought to be smoke	0.3
12/31/2021	38032	2021-000872	01:57	9950	OVERSEAS HWY		False alarm or false call, other	0.4
12/31/2021	38032	2021-000878	23:05	9950	OVERSEAS HWY		False alarm or false call, other	0.4
12/31/2021	38032	2021-000873	07:12	9950	OVERSEAS HWY		Smoke detector activation due to malfunction	0.3
12/09/2021	38032	2021-000819	12:42	1047	OVERSEAS HWY		Alarm system sounded due to malfunction	0.4
12/07/2021	38032	2021-000812	04:06	9975	OVERSEAS HWY		Smoke detector activation, no fire - unintentional	0.6
12/22/2021	38032	2021-000853	08:22	909	TROPICAL LN		Smoke detector activation, no fire - unintentional	0.4

Date	FDID	Incident#	Alarm	###	Address	Suite	Type	Lgth
12/22/2021	38032	2021-000854	09:46	1003	OVERSEAS HWY		Smoke detector activation, no fire - unintentional	0.2
12/31/2021	38032	2021-000877	22:53	7	CINDY PL		Smoke detector activation, no fire - unintentional	0.2
12/19/2021	38032	2021-000847	07:51	9975	OVERSEAS HWY		Alarm system activation, no fire - unintentional	0.4
12/22/2021	38032	2021-000856	20:16	9975	OVERSEAS HWY		Alarm system activation, no fire - unintentional	0.3
12/03/2021	38032	2021-000805	17:35		WOODWARD WAY / 99 MM GU			0.0
12/04/2021	38032	2021-000807	15:11	80	2 ST			0.0
12/05/2021	38032	2021-000809	13:06	77	HERON LN			1.6
12/05/2021	38032	2021-000810	14:27	500	ST CROIX PL			0.2
12/05/2021	38032	2021-000811	17:27	1014	OVERSEAS HWY			0.2
12/08/2021	38032	2021-000815	17:30	1021	GRAND ST			0.0
12/08/2021	38032	2021-000816	21:11		US1			0.2
12/09/2021	38032	2021-000820	15:52	1047	OVERSEAS HWY			0.2
12/10/2021	38032	2021-000822	10:25		REEF DR / 106.5 MM OC			0.0
12/12/2021	38032	2021-000826	11:35		US1	NB		0.0
12/13/2021	38032	2021-000830	16:04	4	BLACKWATER LN NORTH	206		0.0
12/15/2021	38032	2021-000832	10:38	9897	OVERSEAS HWY			0.0
12/19/2021	38032	2021-000848	08:50		US1	SB		0.0
12/19/2021	38032	2021-000849	10:58		US1			0.0
12/31/2021	38032	2021-000876	21:32	988	SHAW DR			0.5

Total Number of Incidents: 78
Total Length of Incidents: 40.4 Hours

Manpower Analysis by Incident

Key Largo Fire Department

Date Range: From 12/01/2021 to 12/31/2021

Fixed Property:

Company: All Companies

Incident Type	Incident Count	Number Attended	Average Attended	Total Length (hrs)	Average Length (hrs)	Average Man Hours	Total Man Hours
111-Building fire	1	7	7.00	4.22	4.22	29.54	29.54
154-Dumpster or other outside trash receptacle fire	1	3	3.00	0.35	0.35	1.05	1.05
311-Medical assist, assist EMS crew	8	20	2.50	3.63	0.45	1.10	8.77
320-Emergency medical service incident, other	1	3	3.00	0.42	0.42	1.26	1.26
321-EMS call, excluding vehicle accident with injury	19	53	2.79	8.70	0.46	1.23	23.31
322-Motor vehicle accident with injuries	11	56	5.09	6.67	0.61	3.10	34.15
323-Motor vehicle/pedestrian accident (MV Ped)	1	4	4.00	0.30	0.30	1.20	1.20
324-Motor vehicle accident with no injuries	1	5	5.00	1.00	1.00	5.00	5.00
444-Power line down	2	5	2.50	1.40	0.70	1.90	3.80
551-Assist police or other governmental agency	1	1	1.00	1.55	1.55	1.55	1.55
553-Public service	2	12	6.00	3.57	1.78	10.71	21.42
611-Dispatched & canceled en route	4	9	2.25	0.08	0.02	0.06	0.24
652-Steam, vapor, fog or dust thought to be smoke	1	7	7.00	0.27	0.27	1.89	1.89
700-False alarm or false call, other	2	7	3.50	0.85	0.42	1.49	2.99
733-Smoke detector activation due to malfunction	1	2	2.00	0.35	0.35	0.70	0.70
735-Alarm system sounded due to malfunction	1	5	5.00	0.42	0.42	2.10	2.10
743-Smoke detector activation, no fire - unintentional	4	14	3.50	1.33	0.33	1.36	5.46
745-Alarm system activation, no fire - unintentional	2	10	5.00	0.67	0.34	1.68	3.35
Blank. Incident Type not Entered	15	0	0.00	2.88	0.19		0.00
Total and Averages for all Incident Types	78	223	2.86	38.66	0.50		147.78

NFPA Analysis Report

Key Largo Fire Department

Date Range: From 12/01/2021 to 12/31/2021

Fixed Property:

FIRE IN STRUCTURES BY FIXED PROPERTY USE (OCCUPANCY) (All in Section A Incident Type 110-129)	Number of Fires	Number of Civilian Fire Casualties. If none, write 0.		Estimated Property Damage from Fire. If no loss, write 0.
		Deaths	Injuries	
1. Private Dwellings (1 or 2 family), including mobile homes (FPU 400-419)	0	0	0	\$0
2. Apartments (3 or more families) FPU 429 or FPU 439)	0	0	0	\$0
3. Hotels and Motels (FPU 449)	0	0	0	\$0
4. All other residential (dormitories, boarding houses, tents, etc.) (FPU 459-499)	0	0	0	\$0
5. TOTAL OTHER RESIDENTIAL FIRES (SHOULD BE SUM OF LINES 1 THROUGH 4)	0	0	0	\$0
6. Public Assembly (church, restaurant, clubs, etc.) (FPU 100-199)	0	0	0	\$0
7. Schools and Colleges (FPU 200-299)	0	0	0	\$0
8. Health Care and Penal Institutions (hospitals, nursing homes, prisons, etc.) (FPU 300-399)	0	0	0	\$0
9. Stores and Offices (FPU 500-599)	1	0	0	\$0
10. Industry, Utility, Defense, Laboratories, Manufacturing (FPU 600-799)	0	0	0	\$0
11. Storage in Structures (barns, vehicle storage garages, general storage, etc.) (FPU 800-899)	0	0	0	\$0
12. Other Structures** (outbuildings, bridges, etc.) (FPU 900-999)	0	0	0	\$0
13. TOTALS FOR STRUCTURE FIRES (SHOULD BE SUM OF LINES 5 THROUGH 12)	1	0	0	\$0

B. OTHER FIRE AND INCIDENTS

14a. Fires in Highway Vehicles (autos, trucks, buses, etc.) (IT 131-132, 136-137)	0	0	0	\$0
14b. Fires in Other Vehicles (planes, trains, ships, construction or farm vehicles, etc.) (IT 130, 133-135, 138)	0	0	0	\$0
15. Fires outside of Structures with Value Involved, but Not Vehicles (outside storage, crops, timber, etc. (IT 140, 141, 161, 162, 164, 170-173)	0	0	0	\$0
16. Fires in Brush, Grass, Wildland (excluding crops and timber) with no value involved (IT 142-143)	0	0	0	
17. Fires in Rubbish, Including Dumpsters (outside of structures), with no value involved. (IT 150-155)	1	0	0	
18. All Other Fires. (IT 100, 160, 163)	0	0	0	\$0
19. TOTAL FOR FIRES (SHOULD BE SUM OF LINES 13 THROUGH 18)	2	0	0	\$0
20. Rescue, Emergency Medical Responses (ambulance, EMS, rescue) (IT 300-381)	38			
21. False Alarm Responses (malicious or unintentional false calls, system malfunctions, bomb scares) (IT 700-746)	10			
22. Mutual Aid or Assistance Responses Given	3			
23a. Hazardous Materials Responses (spills, leaks, etc.) (IT 410-431)	0			
23b. Other Hazardous Conditions (arcing wires, bomb removal, power line down, etc.) (IT 440-482, 400)	2			
24. All Other Responses (smoke scares, lock-outs, animal rescues, etc.) (IT 200-251, 500-699, 800-911)	23			
25. TOTAL FOR ALL INCIDENTS (SHOULD BE SUM OF LINES 19 THROUGH 24)	78			

Based on what is reported in lines 5 and 13 for number of fire above, please report separately:

Confined fires (e.g., cooking fires confined to cooking vessel, or chimney fire that did not spread beyond chimney, or confined trash fires) IIT 113 - 118), and Nonconfined fires (IT 110 - 112, 120 - 123).

	Number of Confined Fires	Number of Nonconfined Fires
5. Residential Fires (line 5 above)	0	0
13. Structure Fires (line 13 above)	0	1

BREAKDOWN OF FALSE ALARM RESPONSES



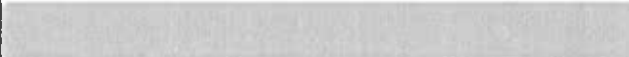




1. Malicious, Mischievous False Call (IT 710-715)	0
2. System Malfunction (IT 700-739)	2
3. Unintentional (tripping on interior device accidentally etc.) (IT 740-749)	6
4. Other False Alarms (bomb scares, etc.) (IT 721, 700)	2

Alarms by Day of Week

Key Largo Fire Department

Date Range: From 01/01/2022 to 01/31/2022

Fixed Property:

Day of Week		Totals
Sunday		12
Monday		8
Tuesday		15
Wednesday		14
Thursday		5
Friday		13
Saturday		17

No Date 0
Total Alarms 84

Incident Run Log

Key Largo Fire Department

Date Range: From 01/01/2022 to 01/31/2022

Fixed Property:

Company: All Companies

Sorted by: Not selected

Date	FDID	Incident#	Alarm	###	Address	Suite	Type	Lgt
01/04/2022	38032	2022-000017	18:59	786	DOLPHIN AVE		Cooking fire, confined to container	0
01/01/2022	38032	2022-000001	00:47	1014	OVERSEAS HWY		Trash or rubbish fire, contained	0
01/01/2022	38032	2022-000003	02:20		HERON RD / 95.4 MM OC		Passenger vehicle fire	1
01/05/2022	38032	2022-000021	10:47	282	RYAN AVENUE		Rescue, EMS incident, other	0
01/05/2022	38032	2022-000024	16:15	566	BONITO AVE		Rescue, EMS incident, other	0
01/04/2022	38032	2022-000013	12:30	32	POMPANO AVENUE		Medical assist, assist EMS crew	0
01/04/2022	38032	2022-000015	14:56	117	HOLIDAY BLVD		Medical assist, assist EMS crew	0
01/05/2022	38032	2022-000019	02:58	812	LARGO RD		Medical assist, assist EMS crew	0
01/05/2022	38032	2022-000023	15:22	300	MORRIS AVE		Medical assist, assist EMS crew	0
01/08/2022	38032	2022-000028	23:35	316	BUTTONWOOD CIR		Medical assist, assist EMS crew	0
01/09/2022	38032	2022-000030	21:17	11	OCEAN DR N C 1.5		Medical assist, assist EMS crew	0
01/21/2022	38032	2022-000056	13:22	1053	OVERSEAS HWY		Medical assist, assist EMS crew	0
01/01/2022	38032	2022-000002	01:54		JEWFISH AVE / 103 MM OC		EMS call, excluding vehicle accident with injury	0
01/06/2022	38032	2022-000027	19:50	11	OCEAN DR N C 1.5		EMS call, excluding vehicle accident with injury	0
01/14/2022	38032	2022-000036	14:07	1	EAST DR		EMS call, excluding vehicle accident with injury	0
01/20/2022	38032	2022-000053	22:48	15	MOCKINGBIRD RD		EMS call, excluding vehicle accident with injury	0
01/24/2022	38032	2022-000064	03:09	1024	ADAMS DR		EMS call, excluding vehicle accident with injury	1
01/24/2022	38032	2022-000066	17:38	1076	OVERSEAS HWY		EMS call, excluding vehicle accident with injury	0
01/25/2022	38032	2022-000067	03:30	300	MORRIS AVE		EMS call, excluding vehicle accident with injury	0
01/25/2022	38032	2022-000070	16:15	541	SOUND DR		EMS call, excluding vehicle accident with injury	0
01/28/2022	38032	2022-000077	18:20	9805	DOCKSIDE DR		EMS call, excluding vehicle accident with injury	0
01/28/2022	38032	2022-000078	18:53	1015	OVERSEAS HWY	111	EMS call, excluding vehicle accident with injury	0
01/30/2022	38032	2022-000083	14:00		506 GEIGER CIR		EMS call, excluding vehicle accident with injury	0
01/30/2022	38032	2022-000081	14:44	1036	OVERSEAS HWY		EMS call, excluding vehicle accident with injury	0
01/01/2022	38032	2022-000004	06:01		ADAMS CUT / 103 MM OC	SB	Motor vehicle accident with injuries	0
01/05/2022	38032	2022-000025	16:26	94.5	OVERSEAS HWY		Motor vehicle accident with injuries	0
01/14/2022	38032	2022-000034	10:10		US1		Motor vehicle accident with injuries	0
01/14/2022	38032	2022-000035	12:28		ATLANTIC BLVD / 99.6 MM O		Motor vehicle accident with injuries	0
01/14/2022	38032	2022-000037	16:58	1010	OVERSEAS HWY		Motor vehicle accident with injuries	0
01/17/2022	38032	2022-000044	23:07	1031	OVERSEAS HWY		Motor vehicle accident with injuries	0
01/19/2022	38032	2022-000049	19:56	111.	US1		Motor vehicle accident with injuries	0
01/21/2022	38032	2022-000055	10:58		MAHOGANY DR / 102 MM OC		Motor vehicle accident with injuries	0
01/25/2022	38032	2022-000068	11:39		GASPARILLA DR / 98 MM GU		Motor vehicle accident with injuries	0
01/25/2022	38032	2022-000071	18:00	9962	OVERSEAS HWY		Motor vehicle accident with injuries	0
01/26/2022	38032	2022-000074	14:44		BURTON DR / 92.5 MM OC		Motor vehicle accident with injuries	0
01/22/2022	38032	2022-000061	21:45	9975	OVERSEAS HWY		Motor vehicle/pedestrian accident (MV Ped)	0
01/26/2022	38032	2022-000073	14:49	1	EAST DRIVE 99MM OC		Motor vehicle accident with no injuries.	0
01/28/2022	38032	2022-000076	14:08		OCEAN BAY DR / 99.5 MM		Motor vehicle accident with no injuries.	0
01/21/2022	38032	2022-000058	20:56	10	AVE C		Lock-in (if lock out , use 511)	0
01/01/2022	38032	2022-000005	08:40	1500	OCEAN BAY DR		Removal of victim(s) from stalled elevator	0
01/01/2022	38032	2022-000007	09:47	1500	OCEAN BAY DR		Removal of victim(s) from stalled elevator	0
01/30/2022	38032	2022-000085	19:18	147	SEASIDE AVE		Removal of victim(s) from stalled elevator	0
01/11/2022	38032	2022-000032	10:29	1013	OVERSEAS HWY		Gas leak (natural gas or LPG)	1
01/16/2022	38032	2022-000041	14:48	36	PIGEON DR		Power line down	0
01/29/2022	38032	2022-000080	08:12	220	REEF DR		Service Call, other	4
01/10/2022	38032	2022-000031	11:23	1026	OVERSEAS HWY		Assist police or other governmental agency	0
01/21/2022	38032	2022-000054	09:39	1004	OVERSEAS HWY		Public service	0
01/22/2022	38032	2022-000062	12:34	1053	OVERSEAS HWY		Cover assignment, standby, moveup	0
01/02/2022	38032	2022-000010	09:48	25	PIRATES DRIVE		Dispatched & canceled en route	0
01/04/2022	38032	2022-000014	12:03	32	POMPANO AVE		Dispatched & canceled en route	0
01/05/2022	38032	2022-000020	07:57		US1	SB	Dispatched & canceled en route	0
01/09/2022	38032	2022-000029	16:03	1500	OCEAN BAY DRIVE	11	Dispatched & canceled en route	0
01/19/2022	38032	2022-000048	15:16	180	CORRINE PL		Dispatched & canceled en route	0
01/20/2022	38032	2022-000051	14:15	9949	OVERSEAS HWY		Dispatched & canceled en route	0
01/20/2022	38032	2022-000052	15:37	9949	OVERSEAS HWY		Dispatched & canceled en route	0
01/21/2022	38032	2022-000057	16:50		95MM		Dispatched & canceled en route	0
01/22/2022	38032	2022-000060	19:01	31	BASS AVE		Dispatched & canceled en route	0
01/25/2022	38032	2022-000069	16:16	683	LAKE DR 102.7 GU NORTH		Dispatched & canceled en route	0
01/01/2022	38032	2022-000008	18:07	9902	OVERSEAS HWY		No incident found on arrival at dispatch address	0

Date	FDID	Incident#	Alarm	###	Address	Suite	Type	Lg
01/18/2022	38032	2022-000045	07:03	9950	OVERSEAS HWY		Smoke scare, odor of smoke	0
01/23/2022	38032	2022-000063	19:51	9949	OVERSEAS HWY		Smoke scare, odor of smoke	0
01/01/2022	38032	2022-000006	09:39	9950	OVERSEAS HWY		False alarm or false call, other	0
01/01/2022	38032	2022-000009	22:08	9950	OVERSEAS HWY		False alarm or false call, other	0
01/19/2022	38032	2022-000047	00:34	1038	OVERSEAS HWY		False alarm or false call, other	0
01/22/2022	38032	2022-000059	06:32	9780	OVERSEAS HWY	19	False alarm or false call, other	0
01/04/2022	38032	2022-000018	21:00	9950	OVERSEAS HWY		Smoke detector activation due to malfunction	0
01/11/2022	38032	2022-000033	18:41	100	HAMMOCK TRAIL		Smoke detector activation, no fire - unintentional	0
01/26/2022	38032	2022-000075	18:47	127	AVE A WEST		Smoke detector activation, no fire - unintentional	0
01/03/2022	38032	2022-000012	15:17	9950	OVERSEAS HWY		Alarm system activation, no fire - unintentional	0
01/19/2022	38032	2022-000050	20:38	1038	OVERSEAS HWY		Alarm system activation, no fire - unintentional	0
01/16/2022	38032	2022-000042	16:16	21	GARDEN COVE DR		Severe weather or natural disaster, other	0
01/16/2022	38032	2022-000040	10:34	7	ROSE PL		Wind storm, tornado/hurricane assessment	0
01/04/2022	38032	2022-000016	15:10	9871	OVERSEAS HWY		Special type of incident, other	0
01/06/2022	38032	2022-000026	10:53	9871	OVERSEAS HWY		Special type of incident, other	0
01/15/2022	38032	2022-000038	02:15	9863	OVERSEAS HWY		Special type of incident, other	0
01/26/2022	38032	2022-000072	13:10	9215	OVERSEAS HWY		Special type of incident, other	0
01/31/2022	38032	2022-000086	08:35	1	EAST DRIVE 99MM OC		Special type of incident, other	0
01/02/2022	38032	2022-000011	15:51	9750	OVERSEAS HWY			0
01/15/2022	38032	2022-000039	10:24	11	OCEAN DR N C 1.5			0
01/17/2022	38032	2022-000043	16:41	84	SEAGATE BLVD			0
01/18/2022	38032	2022-000046	22:26		AVE C / 101.4 MM GU			0
01/24/2022	38032	2022-000065	16:02	1016	OVERSEAS HWY	SB		0
01/28/2022	38032	2022-000079	23:59	103	LONG KEY RD			0
01/30/2022	38032	2022-000082	15:23					0

Total Number of Incidents: 84
Total Length of Incidents: 35.2 Hours

Manpower Analysis by Incident

Key Largo Fire Department

Date Range: From 01/01/2022 to 01/31/2022

Fixed Property:

Company: All Companies

Incident Type	Incident Count	Number Attended	Average Attended	Total Length (hrs)	Average Length (hrs)	Average Man Hours	Total Man Hours
113-Cooking fire, confined to container	1	6	6.00	0.52	0.52	3.12	3.12
118-Trash or rubbish fire, contained	1	2	2.00	0.18	0.18	0.36	0.36
131-Passenger vehicle fire	1	5	5.00	1.67	1.67	8.35	8.35
300-Rescue, EMS incident, other	2	6	3.00	0.53	0.27	0.80	1.59
311-Medical assist, assist EMS crew	7	20	2.86	2.36	0.34	0.97	6.81
321-EMS call, excluding vehicle accident with injury	12	39	3.25	5.41	0.45	1.51	18.09
322-Motor vehicle accident with injuries	11	70	6.36	5.04	0.46	2.76	30.37
323-Motor vehicle/pedestrian accident (MV Ped)	1	5	5.00	0.00	0.00	0.00	0.00
324-Motor vehicle accident with no injuries.	2	8	4.00	0.27	0.14	0.14	0.27
331-Lock-in (if lock out , use 511)	1	3	3.00	0.20	0.20	0.60	0.60
353-Removal of victim(s) from stalled elevator	3	8	2.67	1.61	0.54	1.35	4.05
412-Gas leak (natural gas or LPG)	1	5	5.00	1.22	1.22	6.10	6.10
444-Power line down	1	3	3.00	0.42	0.42	1.26	1.26
500-Service Call, other	1	3	3.00	0.00	0.00	0.00	0.00
551-Assist police or other governmental agency	1	3	3.00	0.48	0.48	1.44	1.44
553-Public service	1	3	3.00	0.12	0.12	0.36	0.36
571-Cover assignment, standby, moveup	1	4	4.00	0.03	0.03	0.12	0.12
611-Dispatched & canceled en route	10	28	2.80	0.15	0.02	0.06	0.64
622-No incident found on arrival at dispatch address	1	5	5.00	0.33	0.33	1.65	1.65
651-Smoke scare, odor of smoke	2	13	6.50	1.28	0.64	4.31	8.63
700-False alarm or false call, other	4	16	4.00	1.98	0.49	2.44	9.76
733-Smoke detector activation due to malfunction	1	3	3.00	0.32	0.32	0.96	0.96
743-Smoke detector activation, no fire - unintentional	2	15	7.50	0.50	0.25	1.76	3.51
745-Alarm system activation, no fire - unintentional	2	3	1.50	0.97	0.48	0.33	0.66
800-Severe weather or natural disaster, other	1	3	3.00	0.08	0.08	0.24	0.24
813-Wind storm, tornado/hurricane assessment	1	3	3.00	0.43	0.43	1.29	1.29
900-Special type of incident, other	5	12	2.40	2.76	0.55	1.66	8.30
Blank. Incident Type not Entered	7	0	0.00	0.53	0.08		0.00
Total and Averages for all Incident Types	84	294	3.50	29.39	0.35		118.53

NFPA Analysis Report

Key Largo Fire Department

Date Range: From 01/01/2022 to 01/31/2022

Fixed Property:

FIRE IN STRUCTURES BY FIXED PROPERTY USE (OCCUPANCY) (All in Section A Incident Type 110-129)	Number of Fires	Number of Civilian Fire Casualties. If none, write 0.		Estimated Property Damage from Fire. If no loss, write 0.
		Deaths	Injuries	
1. Private Dwellings (1 or 2 family). Including mobile homes (FPU 400-419)	1	0	0	\$0
2. Apartments (3 or more families) FPU 429 or FPU 439)	0	0	0	\$0
3. Hotels and Motels (FPU 449)	0	0	0	\$0
4. All other residential (dormitories, boarding houses, tents, etc.) (FPU 459-499)	0	0	0	\$0
5. TOTAL OTHER RESIDENTIAL FIRES (SHOULD BE SUM OF LINES 1 THROUGH 4)	1	0	0	\$0
6. Public Assembly (church, restaurant, clubs, etc.) (FPU 100-199)	0	0	0	\$0
7. Schools and Colleges (FPU 200-299)	0	0	0	\$0
8. Health Care and Penal Institutions (hospitals, nursing homes, prisons, etc.) (FPU 300-399)	0	0	0	\$0
9. Stores and Offices (FPU 500-599)	1	0	0	\$0
10. Industry, Utility, Defense, Laboratories, Manufacturing (FPU 600-799)	0	0	0	\$0
11. Storage in Structures (barns, vehicle storage garages, general storage, etc.) (FPU 800-899)	0	0	0	\$0
12. Other Structures** (outbuildings, bridges, etc.) (FPU 900-999)	0	0	0	\$0
13. TOTALS FOR STRUCTURE FIRES (SHOULD BE SUM OF LINES 5 THROUGH 12)	2	0	0	\$0

B. OTHER FIRE AND INCIDENTS

14a. Fires in Highway Vehicles (autos, trucks, buses, etc.) (IT 131-132, 136-137)	1	0	0	\$0
14b. Fires in Other Vehicles (planes, trains, ships, construction or farm vehicles, etc.) (IT 130, 133-135, 138)	0	0	0	\$0
15. Fires outside of Structures with Value Involved, but Not Vehicles (outside storage, crops, timber, etc.) (IT 140, 141, 161, 162, 164, 170-173)	0	0	0	\$0
16. Fires in Brush, Grass, Wildland (excluding crops and timber) with no value involved. (IT 142-143)	0	0	0	
17. Fires in Rubbish, Including Dumpsters (outside of structures), with no value involved. (IT 150-155)	0	0	0	
18. All Other Fires. (IT 100, 160, 163)	0	0	0	\$0
19. TOTAL FOR FIRES (SHOULD BE SUM OF LINES 13 THROUGH 18)	3	0	0	\$0
20. Rescue, Emergency Medical Responses (ambulance, EMS, rescue) (IT 300-381)	33			
21. False Alarm Responses (malicious or unintentional false calls, system malfunctions, bomb scares) (IT 700-746)	9			
22. Mutual Aid or Assistance Responses Given	8			
23a. Hazardous Materials Responses (spills, leaks, etc.) (IT 410-431)	1			
23b. Other Hazardous Conditions (arcing wires, bomb removal, power line down, etc.) (IT 440-482, 400)	1			
24. All Other Responses (smoke scares, lock-outs, animal rescues, etc.) (IT 200-251, 500-699, 800-911)	29			
25. TOTAL FOR ALL INCIDENTS (SHOULD BE SUM OF LINES 19 THROUGH 24)	84			

Based on what is reported in lines 5 and 13 for number of fire above, please report separately:

Confined fires (e.g., cooking fires confined to cooking vessel, or chimney fire that did not spread beyond chimney, or confined trash fires) (IT 113 - 118), and Nonconfined fires (IT 110 - 112, 120 - 123).

	Number of Confined Fires	Number of Nonconfined Fires
5. Residential Fires (line 5 above)	1	0
13. Structure Fires (line 13 above)	2	0

BREAKDOWN OF FALSE ALARM RESPONSES

1. Malicious, Mischievous False Call (IT 710-715)	0
2. System Malfunction (IT 700-739)	1
3. Unintentional (tripping on interior device accidentally etc.) (IT 740-749)	4
4. Other False Alarms (bomb scares, etc.) (IT 721, 700)	4