CITY OF PORT WENTWORTH

CITY COUNCIL

MARCH 20, 2025

Council Meeting Room	Regular Session	7:00 PM

7224 GA HIGHWAY 21
PORT WENTWORTH, GA 31407

1. CALL MEETING TO ORDER

2. PRAYER AND PLEDGE OF ALLEGIANCE

3. ROLL CALL - CLERK OF COUNCIL

4. APPROVAL OF AGENDA

5. RECOGNITION OF SPECIAL GUESTS

6. PUBLIC COMMENTS - REGISTERED SPEAKERS

7. ELECTIONS & APPOINTMENTS

A. Appointment to Planning and Zoning Board

8. ADOPTION OF MINUTES

A. Regular Council Meeting Minutes - February 20, 2025

9. COMMUNICATIONS & PETITIONS

A. National League of Cities Centennial Under 40 Impact Award - Mayor Pro-Tem Gabrielle Nelson

B. Lupus Awareness Month Proclamation

C. Women's History Month Proclamation

D. National Reading Month Proclamation

E. National Social Work Month Proclamation

F. St. Patrick's Day Proclamation

G. Trail Plan Presentation- Kimley Horn

10. COMMITTEE REPORTS

11. CONSENT AGENDA

A. Mutual Aid MOU

B. County's Emergency Operations Plan

12. UNFINISHED BUSINESS

A. 2nd Public Hearing for Comprehensive Plan Revision

13. NEW BUSINESS

A. Sainamo, LLC, requests the approval of a General Site Plan "Shopping Center Development". PIN# 70037 01053, located on Old Richmond Road in the 3rd Council District. Zoned C-2.

B. JLG Professional A/E Services Proposal – Concession, Bleachers and Team Room Facilities

14. RESOLUTIONS/ORDINANCES/PROCLAMATIONS

A. Transfer of Land to the Port Wentworth Development Authority

B. Elections Superintendent Resolution

C. Alcohol Ordinance Update - 2nd Reading

D. Zoning Ordinance Update - 2nd Reading

15. EXECUTIVE SESSION

A. Litigation
B. Personnel
C. Real Estate

16. ADJOURNMENT

City Council
7224 GA Highway 21
Port Wentworth, GA 31407

SCHEDULED

Meeting: 03/20/25
Department: Police
Category: Agreement
Prepared By: Zahnay Smoak
Department Head:

AGENDA ITEM (ID)

DOC ID:

Mutual Aid MOU

Issue/Item: Formalization of Agreement for Mutual Aid Response Between Cities and Counties.

Background: In times of emergencies or natural disasters, mutual aid agreements ensure that cities and counties are able to support each other by sharing resources, personnel, and equipment. This formalized MOU will allow the listed jurisdictions to provide and receive assistance during critical events such as fires, severe weather, public health crises, or other emergencies that exceed the capabilities of a single jurisdiction. The mutual aid agreement will define roles and responsibilities, procedures for requesting assistance, and ensure that any aid provided is reimbursed in accordance with established terms.

Facts and Finding:

- Ensures a quicker, more coordinated response to emergencies.
- Helps optimize the use of resources in a time of crisis.
- Reduces the financial burden on any single jurisdiction during large-scale emergencies.
- Strengthens relationships between neighboring jurisdictions, improving overall regional resilience.

Funding:

Recommendation: Approval of the Memorandum of Understanding for Mutual Aid Response between the cities and counties listed.

MUTUAL AID AND ASSISTANCE AGREEMENT

This Mutual Aid and Assistance Agreement (the "Agreement") is made and entered into this _____ day of _____, 2025 by and between the Mayor and Council of the City of Port Wentworth (the "City of Port Wentworth" or "Port Wentworth") and The City of Tybee Island, Georgia.

WITNESSETH:

WHEREAS, the Constitution of the State of Georgia of 1983 at Article 9, Section 3, Paragraph 1 provides that municipalities, counties and political subdivisions of this State may enter into agreements with one another for the provision of services by intergovernmental agreements for a period not to exceed fifty years; and

WHEREAS, the Georgia Mutual Aid Act of 1988 (the "GMAA"), O.C.G.A. §§ 36-69-1 *et seq.*, provides for intergovernmental cooperation in the provision of extraterritorial police services and assistance in the event of a local emergency; and

WHEREAS, the City of Port Wentworth and the City of Tybee Island specifically recognize the reciprocal benefits associated with the availability and furnishing of extraterritorial assistance in the event of a local emergency.

NOW, THEREFORE, in consideration of the mutual agreements herein made, the City of Port Wentworth and the City of Tybee Island do hereby mutually agree as follows:

ARTICLE I
INCORPORATION OF RECITALS

The recitals set forth in this Mutual Aid and Assistance Agreement are, by this reference, incorporated into and deemed a part of this Agreement.

ARTICLE II
DEFINITIONS AND AUTHORITIES

For purposes of this agreement, the following terms and expressions shall apply:

(a) "Assistance" includes personnel, equipment, facilities, services, supplies and other resources furnished to a Requesting Party pursuant to this agreement during an emergency or disaster.

(b) "Assisting Party" means a Participating Party that provides assistance pursuant to this agreement during an emergency.

(c) "Authorized Representative" means a Participating Party's elected or appointed official or employee who has been authorized in writing by that party to request,

to offer, or otherwise to provide assistance under the terms of this agreement. The City of Port Wentworth Authorized Representative shall be the Chief of the Port Wentworth Police Department or their designee.

(d) "Local Emergency" means the existence of conditions of extreme peril to the safety or persons and property within the territorial limits of the City of Port Wentworth or the City of Tybee Island caused by natural disaster, riot, civil disturbance, or other situation presenting major law enforcement and other public safety problems, which conditions are or are likely to be beyond the control of the services, personnel, equipment, and facilities of the City of Port Wentworth or the City of Tybee Island.

(d) "Participating Party" or "Participating Parties" refers to the City of Port Wentworth and the City of Tybee Island, which became parties to this agreement by their approval and execution hereof.

(e) "Requesting Party" means a Participating Party that requests assistance pursuant to this agreement during an emergency.

Any term or expression not defined in this agreement shall have the meaning specified in the Georgia Mutual Aid Act, as amended and rules promulgated thereunder, unless used in a context that clearly suggests a different meaning.

ARTICLE III
PARTICIPATING PARTY RESPONSIBILITIES

(a) Upon receipt of a request from a Requesting Party for assistance in a local emergency, the prevention or detection of violation of any law, the apprehension or arrest of any person who violates a criminal law of the state of Georgia, or in any criminal case, the Assisting Party shall take such action as is necessary to provide and make available the public safety resources contemplated by and in accordance with this Agreement. The Assisting Party may withhold or withdraw its resources if, in its sole discretion, to do otherwise would leave its jurisdiction without sufficient personnel or assets to service any incident which might subsequently arise therein. Requests for assistance may be verbal or in writing; provided, however, that verbal requests shall be confirmed in writing within 30 days of the verbal request. Requests shall provide the following information:

(1) A description of the emergency service function for which assistance is needed;

(2) The amount and type of personnel, equipment, materials and supplies needed, and a reasonable estimate of the length of time they will be needed; and

(3) The specific place and time for staging of the Assisting Party's response and a point of contact at that location.

(b) The Assisting Party will:

(1) Maintain daily personnel time records, material records and a log of equipment hours, or mileage as may be appropriate; and

(2) Report work progress to the Requesting Party at mutually agreed upon intervals.

Employees of the Assisting Party shall remain employees of their own agency and operate under the command and control of their regular leaders; however, the organizational units will come under the operational control of the Requesting Party.

ARTICLE IV
LIMITATIONS AND EXCEPTIONS

(a) The provisions of this agreement shall not be construed as creating a duty to respond to a request for assistance on the part of any emergency or public safety personnel of a Participating Party. Furthermore, this agreement shall not be construed to create a duty on the part of any emergency or public safety personnel to remain at the scene of a local emergency for any length of time.

(b) The Assisting Party may at any time recall its assistance when in the best judgment and sole direction of its Authorized Representative, or by order of the governing body of the Assisting Party, it is considered to be in the best interests of the assisting party to do so. When continued assistance requires the recall of additional or off-duty personnel by the Assisting Party, that fact shall be communicated to the Requesting Party and, when approved by the Requesting Party, compensation of those individuals shall become the Requesting Party's responsibility.

(c) In accordance with O.C.G.A. § 36-69-10, as amended, the provisions of this agreement shall not apply to any emergency in which the chief executive officer of a Participating Party assigns or makes available for duty the employees, property or equipment of that party relating to fire-fighting, engineering, rescue, health, medical and related services, and to police, transportation, construction and similar items or services for emergency management purposes outside of the physical limits of the Participating Party as provided by the Georgia Emergency Management Act, O.C.G.A. §§ 38-3-27, *et seq*., as amended.

ARTICLE V
PRIVILEGES AND IMMUNITIES FROM LIABILITY

(a) In accordance with O.C.G.A. § 36-69-4, as amended, whenever the employees of a Participating Party are rendering aid outside their political subdivision and pursuant to the authority contemplated by this agreement and GMAA, such employees

shall have the same powers, duties, rights privileges and immunities as if they were performing their duties in the political subdivision in which they are normally employed.

(b) In accordance with O.C.G.A. § 36-69-6, as amended, all of the privileges and immunities from liability; exemption from laws, ordinances, and rules; and all pension, insurance, relief, disability, workers' compensation, salary, death, and other benefits which apply to the activity of Participating Party officers, agents or employees when performing their respective functions within the territorial limits of their respective political subdivisions shall apply to such officers, agents or employees to the same degree, manner and extent while engaged in the performance of any of their functions and duties extraterritorially under the terms of this agreement and authority of GMAA.

(c) In accordance with O.C.G.A. § 36-69-7, as amended, neither a public safety agency which requests assistance pursuant to this agreement, nor the Participating Parties shall be liable for any acts or omissions of the employees of an Assisting Party rendering assistance extraterritorially under the terms of this agreement and authority of GMAA.

(d) No party to this agreement, nor any officer, employee or agent of any Participating Party, shall be liable to any person on account of failure of any party to furnish its emergency response equipment or personnel in response to a call for assistance.

(e) It is the express intent of the Participating Parties that the immunities specified herein shall be construed in accordance with Georgia law and shall apply in addition to any other immunities provided by statutory or case law.

ARTICLE VI
COSTS

(a) In accordance with O.C.G.A. § 36-69-5, Assisting Party shall bear the loss or damage to any of its equipment furnished pursuant to this Agreement. Assisting Party shall also pay any expense incurred in the operation and maintenance of such equipment.

(b) In accordance with O.C.G.A. § 36-69-5, the Assisting Party shall compensate its employees during the time of rendering aid and shall defray the actual travel and maintenance expenses of such employees while they are rendering such aid. Such compensation shall include any amounts paid or due for compensation due to personal injury or death while such employees are engaged in rendering such aid.

(c) Each party shall bear its own responsibility and be liable for any claims, demands, suits, actions, damages and causes of action arising out of or occurring during travel to or from its own or a Requesting Party's emergency site and no indemnification or hold harmless agreement shall be in effect concerning such claims, demands, suits, actions, damages and causes of action.

ARTICLE VII
ASSIGNMENT

No part of this agreement is assignable to any other person.

ARTICLE VIII
VALIDITY

This agreement shall be construed to effectuate the purposes recited herein. If any provision of this agreement is declared unconstitutional, or the applicability thereof to any person or circumstances is held to be invalid, the constitutionality of the remainder of this agreement and applicability thereof to other persons and circumstances shall not be affected thereby.

ARTICLE IX
TERM OF AGREEMENT

This agreement shall be effective as of the date set forth above and shall continue for a term of one year. This agreement shall automatically renew for additional one-year terms not to exceed forty-nine years unless terminated in accordance with Article X below. Each term shall constitute a separate agreement.

ARTICLE X
TERMINATION OF AGREEMENT

Either Participating Party may withdraw from this agreement by mailing notice of withdrawal, approved by its governing body, but no such withdrawal shall take effect until 30 days after the governing authority of the withdrawing party has given notice in writing of such withdrawal to the governing authority of the non-withdrawing party. Such action shall not relieve the withdrawing party from obligations assumed hereunder prior to the effective date of withdrawal.

[signatures on following page]

Agreed:

THE CITY OF TYBEE ISLAND

_____

MAYOR
Gary Norton

ATTEST:

_____

CLERK OF COUNCIL

THE CITY OF PORT WENTWORTH

_____

MAYOR

ATTEST:

_____

CLERK OF COUNCIL

MUTUAL AID AND ASSISTANCE AGREEMENT

This Mutual Aid and Assistance Agreement (the "Agreement") is made and entered into this _____ day of _____, 2025 by and between the Mayor and Council of the City of Port Wentworth (the "City of Port Wentworth" or "Port Wentworth") and The City of Bloomingdale, Georgia.

WITNESSETH:

WHEREAS, the Constitution of the State of Georgia of 1983 at Article 9, Section 3, Paragraph 1 provides that municipalities, counties and political subdivisions of this State may enter into agreements with one another for the provision of services by intergovernmental agreements for a period not to exceed fifty years; and

WHEREAS, the Georgia Mutual Aid Act of 1988 (the "GMAA"), O.C.G.A. §§ 36-69-1 *et seq.*, provides for intergovernmental cooperation in the provision of extraterritorial police services and assistance in the event of a local emergency; and

WHEREAS, the City of Port Wentworth and the City of Bloomingdale specifically recognize the reciprocal benefits associated with the availability and furnishing of extraterritorial assistance in the event of a local emergency.

NOW, THEREFORE, in consideration of the mutual agreements herein made, the City of Port Wentworth and the City of Bloomingdale do hereby mutually agree as follows:

ARTICLE I
INCORPORATION OF RECITALS

The recitals set forth in this Mutual Aid and Assistance Agreement are, by this reference, incorporated into and deemed a part of this Agreement.

ARTICLE II
DEFINITIONS AND AUTHORITIES

For purposes of this agreement, the following terms and expressions shall apply:

(a) "Assistance" includes personnel, equipment, facilities, services, supplies and other resources furnished to a Requesting Party pursuant to this agreement during an emergency or disaster.

(b) "Assisting Party" means a Participating Party that provides assistance pursuant to this agreement during an emergency.

(c) "Authorized Representative" means a Participating Party's elected or appointed official or employee who has been authorized in writing by that party to request,

to offer, or otherwise to provide assistance under the terms of this agreement. The City of Port Wentworth Authorized Representative shall be the Chief of the Port Wentworth Police Department or their designee.

(d) "Local Emergency" means the existence of conditions of extreme peril to the safety or persons and property within the territorial limits of the City of Port Wentworth or the City of Bloomingdale caused by natural disaster, riot, civil disturbance, or other situation presenting major law enforcement and other public safety problems, which conditions are or are likely to be beyond the control of the services, personnel, equipment, and facilities of the City of Port Wentworth or the City of Bloomingdale.

(d) "Participating Party" or "Participating Parties" refers to the City of Port Wentworth and the City of Bloomingdale, which became parties to this agreement by their approval and execution hereof.

(e) "Requesting Party" means a Participating Party that requests assistance pursuant to this agreement during an emergency.

Any term or expression not defined in this agreement shall have the meaning specified in the Georgia Mutual Aid Act, as amended and rules promulgated thereunder, unless used in a context that clearly suggests a different meaning.

ARTICLE III
PARTICIPATING PARTY RESPONSIBILITIES

(a) Upon receipt of a request from a Requesting Party for assistance in a local emergency, the prevention or detection of violation of any law, the apprehension or arrest of any person who violates a criminal law of the state of Georgia, or in any criminal case, the Assisting Party shall take such action as is necessary to provide and make available the public safety resources contemplated by and in accordance with this Agreement. The Assisting Party may withhold or withdraw its resources if, in its sole discretion, to do otherwise would leave its jurisdiction without sufficient personnel or assets to service any incident which might subsequently arise therein. Requests for assistance may be verbal or in writing; provided, however, that verbal requests shall be confirmed in writing within 30 days of the verbal request. Requests shall provide the following information:

(1) A description of the emergency service function for which assistance is needed;

(2) The amount and type of personnel, equipment, materials and supplies needed, and a reasonable estimate of the length of time they will be needed; and

(3) The specific place and time for staging of the Assisting Party's response and a point of contact at that location.

(b) The Assisting Party will:

(1) Maintain daily personnel time records, material records and a log of equipment hours, or mileage as may be appropriate; and

(2) Report work progress to the Requesting Party at mutually agreed upon intervals.

Employees of the Assisting Party shall remain employees of their own agency and operate under the command and control of their regular leaders; however, the organizational units will come under the operational control of the Requesting Party.

ARTICLE IV
LIMITATIONS AND EXCEPTIONS

(a) The provisions of this agreement shall not be construed as creating a duty to respond to a request for assistance on the part of any emergency or public safety personnel of a Participating Party. Furthermore, this agreement shall not be construed to create a duty on the part of any emergency or public safety personnel to remain at the scene of a local emergency for any length of time.

(b) The Assisting Party may at any time recall its assistance when in the best judgment and sole direction of its Authorized Representative, or by order of the governing body of the Assisting Party, it is considered to be in the best interests of the assisting party to do so. When continued assistance requires the recall of additional or off-duty personnel by the Assisting Party, that fact shall be communicated to the Requesting Party and, when approved by the Requesting Party, compensation of those individuals shall become the Requesting Party's responsibility.

(c) In accordance with O.C.G.A. § 36-69-10, as amended, the provisions of this agreement shall not apply to any emergency in which the chief executive officer of a Participating Party assigns or makes available for duty the employees, property or equipment of that party relating to fire-fighting, engineering, rescue, health, medical and related services, and to police, transportation, construction and similar items or services for emergency management purposes outside of the physical limits of the Participating Party as provided by the Georgia Emergency Management Act, O.C.G.A. §§ 38-3-27, *et seq*., as amended.

ARTICLE V
PRIVILEGES AND IMMUNITIES FROM LIABILITY

(a) In accordance with O.C.G.A. § 36-69-4, as amended, whenever the employees of a Participating Party are rendering aid outside their political subdivision and pursuant to the authority contemplated by this agreement and GMAA, such employees

shall have the same powers, duties, rights privileges and immunities as if they were performing their duties in the political subdivision in which they are normally employed.

(b) In accordance with O.C.G.A. § 36-69-6, as amended, all of the privileges and immunities from liability; exemption from laws, ordinances, and rules; and all pension, insurance, relief, disability, workers' compensation, salary, death, and other benefits which apply to the activity of Participating Party officers, agents or employees when performing their respective functions within the territorial limits of their respective political subdivisions shall apply to such officers, agents or employees to the same degree, manner and extent while engaged in the performance of any of their functions and duties extraterritorially under the terms of this agreement and authority of GMAA.

(c) In accordance with O.C.G.A. § 36-69-7, as amended, neither a public safety agency which requests assistance pursuant to this agreement, nor the Participating Parties shall be liable for any acts or omissions of the employees of an Assisting Party rendering assistance extraterritorially under the terms of this agreement and authority of GMAA.

(d) No party to this agreement, nor any officer, employee or agent of any Participating Party, shall be liable to any person on account of failure of any party to furnish its emergency response equipment or personnel in response to a call for assistance.

(e) It is the express intent of the Participating Parties that the immunities specified herein shall be construed in accordance with Georgia law and shall apply in addition to any other immunities provided by statutory or case law.

ARTICLE VI
COSTS

(a) In accordance with O.C.G.A. § 36-69-5, Assisting Party shall bear the loss or damage to any of its equipment furnished pursuant to this Agreement. Assisting Party shall also pay any expense incurred in the operation and maintenance of such equipment.

(b) In accordance with O.C.G.A. § 36-69-5, the Assisting Party shall compensate its employees during the time of rendering aid and shall defray the actual travel and maintenance expenses of such employees while they are rendering such aid. Such compensation shall include any amounts paid or due for compensation due to personal injury or death while such employees are engaged in rendering such aid.

(c) Each party shall bear its own responsibility and be liable for any claims, demands, suits, actions, damages and causes of action arising out of or occurring during travel to or from its own or a Requesting Party's emergency site and no indemnification or hold harmless agreement shall be in effect concerning such claims, demands, suits, actions, damages and causes of action.

ARTICLE VII
ASSIGNMENT

No part of this agreement is assignable to any other person.

ARTICLE VIII
VALIDITY

This agreement shall be construed to effectuate the purposes recited herein. If any provision of this agreement is declared unconstitutional, or the applicability thereof to any person or circumstances is held to be invalid, the constitutionality of the remainder of this agreement and applicability thereof to other persons and circumstances shall not be affected thereby.

ARTICLE IX
TERM OF AGREEMENT

This agreement shall be effective as of the date set forth above and shall continue for a term of one year. This agreement shall automatically renew for additional one-year terms not to exceed forty-nine years unless terminated in accordance with Article X below. Each term shall constitute a separate agreement.

ARTICLE X
TERMINATION OF AGREEMENT

Either Participating Party may withdraw from this agreement by mailing notice of withdrawal, approved by its governing body, but no such withdrawal shall take effect until 30 days after the governing authority of the withdrawing party has given notice in writing of such withdrawal to the governing authority of the non-withdrawing party. Such action shall not relieve the withdrawing party from obligations assumed hereunder prior to the effective date of withdrawal.

[signatures on following page]

Agreed:

THE CITY OF BLOOMINGDALE

_____

MAYOR
Gary Norton

ATTEST:

_____

CLERK OF COUNCIL

THE CITY OF PORT WENTWORTH

_____

MAYOR

ATTEST:

_____

CLERK OF COUNCIL

MUTUAL AID AND ASSISTANCE AGREEMENT

This Mutual Aid and Assistance Agreement (the "Agreement") is made and entered into this _____ day of _____, 2025 by and between the Mayor and Council of the City of Port Wentworth (the "City of Port Wentworth" or "Port Wentworth") and The Effingham County Sheriff's Office, Georgia.

WITNESSETH:

WHEREAS, the Constitution of the State of Georgia of 1983 at Article 9, Section 3, Paragraph 1 provides that municipalities, counties and political subdivisions of this State may enter into agreements with one another for the provision of services by intergovernmental agreements for a period not to exceed fifty years; and

WHEREAS, the Georgia Mutual Aid Act of 1988 (the "GMAA"), O.C.G.A. §§ 36-69-1 *et seq.*, provides for intergovernmental cooperation in the provision of extraterritorial police services and assistance in the event of a local emergency; and

WHEREAS, the City of Port Wentworth and the Effingham County Sheriff's Office specifically recognize the reciprocal benefits associated with the availability and furnishing of extraterritorial assistance in the event of a local emergency.

NOW, THEREFORE, in consideration of the mutual agreements herein made, the City of Port Wentworth and the Effingham County Sheriff's Office do hereby mutually agree as follows:

ARTICLE I
INCORPORATION OF RECITALS

The recitals set forth in this Mutual Aid and Assistance Agreement are, by this reference, incorporated into and deemed a part of this Agreement.

ARTICLE II
DEFINITIONS AND AUTHORITIES

For purposes of this agreement, the following terms and expressions shall apply:

(a) "Assistance" includes personnel, equipment, facilities, services, supplies and other resources furnished to a Requesting Party pursuant to this agreement during an emergency or disaster.

(b) "Assisting Party" means a Participating Party that provides assistance pursuant to this agreement during an emergency.

(c) "Authorized Representative" means a Participating Party's elected or appointed official or employee who has been authorized in writing by that party to request, to offer, or otherwise to provide assistance under the terms of this agreement. The City of Port Wentworth Authorized Representative shall be the Chief of the Port Wentworth Police Department or their designee.

(d) "Local Emergency" means the existence of conditions of extreme peril to the safety or persons and property within the territorial limits of the City of Port Wentworth or the Effingham County Sheriff's Office caused by natural disaster, riot, civil disturbance, or other situation presenting major law enforcement and other public safety problems, which conditions are or are likely to be beyond the control of the services, personnel, equipment, and facilities of the City of Port Wentworth or the Effingham County Sheriff's Office.

(d) "Participating Party" or "Participating Parties" refers to the City of Port Wentworth and the Effingham County Sheriff's Office, which became parties to this agreement by their approval and execution hereof.

(e) "Requesting Party" means a Participating Party that requests assistance pursuant to this agreement during an emergency.

Any term or expression not defined in this agreement shall have the meaning specified in the Georgia Mutual Aid Act, as amended and rules promulgated thereunder, unless used in a context that clearly suggests a different meaning.

ARTICLE III
PARTICIPATING PARTY RESPONSIBILITIES

(a) Upon receipt of a request from a Requesting Party for assistance in a local emergency, the prevention or detection of violation of any law, the apprehension or arrest of any person who violates a criminal law of the state of Georgia, or in any criminal case, the Assisting Party shall take such action as is necessary to provide and make available the public safety resources contemplated by and in accordance with this Agreement. The Assisting Party may withhold or withdraw its resources if, in its sole discretion, to do otherwise would leave its jurisdiction without sufficient personnel or assets to service any incident which might subsequently arise therein. Requests for assistance may be verbal or in writing; provided, however, that verbal requests shall be confirmed in writing within 30 days of the verbal request. Requests shall provide the following information:

(1) A description of the emergency service function for which assistance is needed;

(2) The amount and type of personnel, equipment, materials and supplies needed, and a reasonable estimate of the length of time they will be needed; and

(3) The specific place and time for staging of the Assisting Party's response and a point of contact at that location.

(b) The Assisting Party will:

(1) Maintain daily personnel time records, material records and a log of equipment hours, or mileage as may be appropriate; and

(2) Report work progress to the Requesting Party at mutually agreed upon intervals.

Employees of the Assisting Party shall remain employees of their own agency and operate under the command and control of their regular leaders; however, the organizational units will come under the operational control of the Requesting Party.

ARTICLE IV
LIMITATIONS AND EXCEPTIONS

(a) The provisions of this agreement shall not be construed as creating a duty to respond to a request for assistance on the part of any emergency or public safety personnel of a Participating Party. Furthermore, this agreement shall not be construed to create a duty on the part of any emergency or public safety personnel to remain at the scene of a local emergency for any length of time.

(b) The Assisting Party may at any time recall its assistance when in the best judgment and sole direction of its Authorized Representative, or by order of the governing body of the Assisting Party, it is considered to be in the best interests of the assisting party to do so. When continued assistance requires the recall of additional or off-duty personnel by the Assisting Party, that fact shall be communicated to the Requesting Party and, when approved by the Requesting Party, compensation of those individuals shall become the Requesting Party's responsibility.

(c) In accordance with O.C.G.A. § 36-69-10, as amended, the provisions of this agreement shall not apply to any emergency in which the chief executive officer of a Participating Party assigns or makes available for duty the employees, property or equipment of that party relating to fire-fighting, engineering, rescue, health, medical and related services, and to police, transportation, construction and similar items or services for emergency management purposes outside of the physical limits of the Participating Party as provided by the Georgia Emergency Management Act, O.C.G.A. §§ 38-3-27, *et seq*., as amended.

ARTICLE V
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(a) In accordance with O.C.G.A. § 36-69-4, as amended, whenever the employees of a Participating Party are rendering aid outside their political subdivision and pursuant to the authority contemplated by this agreement and GMAA, such employees shall have the same powers, duties, rights privileges and immunities as if they were performing their duties in the political subdivision in which they are normally employed.

(b) In accordance with O.C.G.A. § 36-69-6, as amended, all of the privileges and immunities from liability; exemption from laws, ordinances, and rules; and all pension, insurance, relief, disability, workers' compensation, salary, death, and other benefits which apply to the activity of Participating Party officers, agents or employees when performing their respective functions within the territorial limits of their respective political subdivisions shall apply to such officers, agents or employees to the same degree, manner and extent while engaged in the performance of any of their functions and duties extraterritorially under the terms of this agreement and authority of GMAA.

(c) In accordance with O.C.G.A. § 36-69-7, as amended, neither a public safety agency which requests assistance pursuant to this agreement, nor the Participating Parties shall be liable for any acts or omissions of the employees of an Assisting Party rendering assistance extraterritorially under the terms of this agreement and authority of GMAA.

(d) No party to this agreement, nor any officer, employee or agent of any Participating Party, shall be liable to any person on account of failure of any party to furnish its emergency response equipment or personnel in response to a call for assistance.

(e) It is the express intent of the Participating Parties that the immunities specified herein shall be construed in accordance with Georgia law and shall apply in addition to any other immunities provided by statutory or case law.

ARTICLE VI
COSTS

(a) In accordance with O.C.G.A. § 36-69-5, Assisting Party shall bear the loss or damage to any of its equipment furnished pursuant to this Agreement. Assisting Party shall also pay any expense incurred in the operation and maintenance of such equipment.

(b) In accordance with O.C.G.A. § 36-69-5, the Assisting Party shall compensate its employees during the time of rendering aid and shall defray the actual travel and maintenance expenses of such employees while they are rendering such aid. Such compensation shall include any amounts paid or due for compensation due to personal injury or death while such employees are engaged in rendering such aid.

(c) Each party shall bear its own responsibility and be liable for any claims, demands, suits, actions, damages and causes of action arising out of or occurring during travel to or from its own or a Requesting Party's emergency site and no indemnification

or hold harmless agreement shall be in effect concerning such claims, demands, suits, actions, damages and causes of action.

ARTICLE VII
ASSIGNMENT

No part of this agreement is assignable to any other person.

ARTICLE VIII
VALIDITY

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ARTICLE IX
TERM OF AGREEMENT

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ARTICLE X
TERMINATION OF AGREEMENT

Either Participating Party may withdraw from this agreement by mailing notice of withdrawal, approved by its governing body, but no such withdrawal shall take effect until 30 days after the governing authority of the withdrawing party has given notice in writing of such withdrawal to the governing authority of the non-withdrawing party. Such action shall not relieve the withdrawing party from obligations assumed hereunder prior to the effective date of withdrawal.

[signatures on following page]

Agreed:

THE EFFINGHAM COUNTY SHERIFF'S OFFICE ATTEST:

_____ _____

THE CITY OF PORT WENTWORTH ATTEST:

_____ _____

MAYOR CLERK OF COUNCIL
Gary Norton

MUTUAL AID AND ASSISTANCE AGREEMENT

This Mutual Aid and Assistance Agreement (the "Agreement") is made and entered into this _____ day of _____, 2025 by and between the Mayor and Council of the City of Port Wentworth (the "City of Port Wentworth" or "Port Wentworth") and Chatham County Police Department, Georgia.

WITNESSETH:

WHEREAS, the Constitution of the State of Georgia of 1983 at Article 9, Section 3, Paragraph 1 provides that municipalities, counties and political subdivisions of this State may enter into agreements with one another for the provision of services by intergovernmental agreements for a period not to exceed fifty years; and

WHEREAS, the Georgia Mutual Aid Act of 1988 (the "GMAA"), O.C.G.A. §§ 36-69-1 *et seq.*, provides for intergovernmental cooperation in the provision of extraterritorial police services and assistance in the event of a local emergency; and

WHEREAS, the City of Port Wentworth and Chatham County Police Department specifically recognize the reciprocal benefits associated with the availability and furnishing of extraterritorial assistance in the event of a local emergency.

NOW, THEREFORE, in consideration of the mutual agreements herein made, the City of Port Wentworth and Chatham County Police Department do hereby mutually agree as follows:

ARTICLE I
INCORPORATION OF RECITALS

The recitals set forth in this Mutual Aid and Assistance Agreement are, by this reference, incorporated into and deemed a part of this Agreement.

ARTICLE II
DEFINITIONS AND AUTHORITIES

For purposes of this agreement, the following terms and expressions shall apply:

(a) "Assistance" includes personnel, equipment, facilities, services, supplies and other resources furnished to a Requesting Party pursuant to this agreement during an emergency or disaster.

(b) "Assisting Party" means a Participating Party that provides assistance pursuant to this agreement during an emergency.

(c) “Authorized Representative” means a Participating Party’s elected or appointed official or employee who has been authorized in writing by that party to request, to offer, or otherwise to provide assistance under the terms of this agreement. The City of Port Wentworth Authorized Representative shall be the Chief of the Port Wentworth Police Department or their designee.

(d) “Local Emergency” means the existence of conditions of extreme peril to the safety or persons and property within the territorial limits of the City of Port Wentworth or Chatham County Police Department caused by natural disaster, riot, civil disturbance, or other situation presenting major law enforcement and other public safety problems, which conditions are or are likely to be beyond the control of the services, personnel, equipment, and facilities of the City of Port Wentworth or Chatham County Police Department.

(d) “Participating Party” or “Participating Parties” refers to the City of Port Wentworth and Chatham County Police Department, which became parties to this agreement by their approval and execution hereof.

(e) “Requesting Party” means a Participating Party that requests assistance pursuant to this agreement during an emergency.

Any term or expression not defined in this agreement shall have the meaning specified in the Georgia Mutual Aid Act, as amended and rules promulgated thereunder, unless used in a context that clearly suggests a different meaning.

ARTICLE III
PARTICIPATING PARTY RESPONSIBILITIES

(a) Upon receipt of a request from a Requesting Party for assistance in a local emergency, the prevention or detection of violation of any law, the apprehension or arrest of any person who violates a criminal law of the state of Georgia, or in any criminal case, the Assisting Party shall take such action as is necessary to provide and make available the public safety resources contemplated by and in accordance with this Agreement. The Assisting Party may withhold or withdraw its resources if, in its sole discretion, to do otherwise would leave its jurisdiction without sufficient personnel or assets to service any incident which might subsequently arise therein. Requests for assistance may be verbal or in writing; provided, however, that verbal requests shall be confirmed in writing within 30 days of the verbal request. Requests shall provide the following information:

(1) A description of the emergency service function for which assistance is needed;

(2) The amount and type of personnel, equipment, materials and supplies needed, and a reasonable estimate of the length of time they will be needed; and

(3) The specific place and time for staging of the Assisting Party's response and a point of contact at that location.

(b) The Assisting Party will:

(1) Maintain daily personnel time records, material records and a log of equipment hours, or mileage as may be appropriate; and

(2) Report work progress to the Requesting Party at mutually agreed upon intervals.

Employees of the Assisting Party shall remain employees of their own agency and operate under the command and control of their regular leaders; however, the organizational units will come under the operational control of the Requesting Party.

ARTICLE IV
LIMITATIONS AND EXCEPTIONS

(a) The provisions of this agreement shall not be construed as creating a duty to respond to a request for assistance on the part of any emergency or public safety personnel of a Participating Party. Furthermore, this agreement shall not be construed to create a duty on the part of any emergency or public safety personnel to remain at the scene of a local emergency for any length of time.

(b) The Assisting Party may at any time recall its assistance when in the best judgment and sole direction of its Authorized Representative, or by order of the governing body of the Assisting Party, it is considered to be in the best interests of the assisting party to do so. When continued assistance requires the recall of additional or off-duty personnel by the Assisting Party, that fact shall be communicated to the Requesting Party and, when approved by the Requesting Party, compensation of those individuals shall become the Requesting Party's responsibility.

(c) In accordance with O.C.G.A. § 36-69-10, as amended, the provisions of this agreement shall not apply to any emergency in which the chief executive officer of a Participating Party assigns or makes available for duty the employees, property or equipment of that party relating to fire-fighting, engineering, rescue, health, medical and related services, and to police, transportation, construction and similar items or services for emergency management purposes outside of the physical limits of the Participating Party as provided by the Georgia Emergency Management Act, O.C.G.A. §§ 38-3-27, *et seq*., as amended.

ARTICLE V
PRIVILEGES AND IMMUNITIES FROM LIABILITY

(a) In accordance with O.C.G.A. § 36-69-4, as amended, whenever the employees of a Participating Party are rendering aid outside their political subdivision and pursuant to the authority contemplated by this agreement and GMAA, such employees shall have the same powers, duties, rights privileges and immunities as if they were performing their duties in the political subdivision in which they are normally employed.

(b) In accordance with O.C.G.A. § 36-69-6, as amended, all of the privileges and immunities from liability; exemption from laws, ordinances, and rules; and all pension, insurance, relief, disability, workers' compensation, salary, death, and other benefits which apply to the activity of Participating Party officers, agents or employees when performing their respective functions within the territorial limits of their respective political subdivisions shall apply to such officers, agents or employees to the same degree, manner and extent while engaged in the performance of any of their functions and duties extraterritorially under the terms of this agreement and authority of GMAA.

(c) In accordance with O.C.G.A. § 36-69-7, as amended, neither a public safety agency which requests assistance pursuant to this agreement, nor the Participating Parties shall be liable for any acts or omissions of the employees of an Assisting Party rendering assistance extraterritorially under the terms of this agreement and authority of GMAA.

(d) No party to this agreement, nor any officer, employee or agent of any Participating Party, shall be liable to any person on account of failure of any party to furnish its emergency response equipment or personnel in response to a call for assistance.

(e) It is the express intent of the Participating Parties that the immunities specified herein shall be construed in accordance with Georgia law and shall apply in addition to any other immunities provided by statutory or case law.

ARTICLE VI
COSTS

(a) In accordance with O.C.G.A. § 36-69-5, Assisting Party shall bear the loss or damage to any of its equipment furnished pursuant to this Agreement. Assisting Party shall also pay any expense incurred in the operation and maintenance of such equipment.

(b) In accordance with O.C.G.A. § 36-69-5, the Assisting Party shall compensate its employees during the time of rendering aid and shall defray the actual travel and maintenance expenses of such employees while they are rendering such aid. Such compensation shall include any amounts paid or due for compensation due to personal injury or death while such employees are engaged in rendering such aid.

(c) Each party shall bear its own responsibility and be liable for any claims, demands, suits, actions, damages and causes of action arising out of or occurring during travel to or from its own or a Requesting Party's emergency site and no indemnification

or hold harmless agreement shall be in effect concerning such claims, demands, suits, actions, damages and causes of action.

ARTICLE VII
ASSIGNMENT

No part of this agreement is assignable to any other person.

ARTICLE VIII
VALIDITY

This agreement shall be construed to effectuate the purposes recited herein. If any provision of this agreement is declared unconstitutional, or the applicability thereof to any person or circumstances is held to be invalid, the constitutionality of the remainder of this agreement and applicability thereof to other persons and circumstances shall not be affected thereby.

ARTICLE IX
TERM OF AGREEMENT

This agreement shall be effective as of the date set forth above and shall continue for a term of one year. This agreement shall automatically renew for additional one-year terms not to exceed forty-nine years unless terminated in accordance with Article X below. Each term shall constitute a separate agreement.

ARTICLE X
TERMINATION OF AGREEMENT

Either Participating Party may withdraw from this agreement by mailing notice of withdrawal, approved by its governing body, but no such withdrawal shall take effect until 30 days after the governing authority of the withdrawing party has given notice in writing of such withdrawal to the governing authority of the non-withdrawing party. Such action shall not relieve the withdrawing party from obligations assumed hereunder prior to the effective date of withdrawal.

[signatures on following page]

Agreed:

CHATHAM COUNTY POLICE DEPARTMENT

_____

ATTEST:

_____

THE CITY OF PORT WENTWORTH

_____
MAYOR
Gary Norton

ATTEST:

_____
CLERK OF COUNCIL

MUTUAL AID AND ASSISTANCE AGREEMENT

This Mutual Aid and Assistance Agreement (the "Agreement") is made and entered into this _____ day of _____, 2025 by and between the Mayor and Council of the City of Port Wentworth (the "City of Port Wentworth" or "Port Wentworth") and The City of Pooler, Georgia.

WITNESSETH:

WHEREAS, the Constitution of the State of Georgia of 1983 at Article 9, Section 3, Paragraph 1 provides that municipalities, counties and political subdivisions of this State may enter into agreements with one another for the provision of services by intergovernmental agreements for a period not to exceed fifty years; and

WHEREAS, the Georgia Mutual Aid Act of 1988 (the "GMAA"), O.C.G.A. §§ 36-69-1 *et seq.*, provides for intergovernmental cooperation in the provision of extraterritorial police services and assistance in the event of a local emergency; and

WHEREAS, the City of Port Wentworth and the City of Pooler specifically recognize the reciprocal benefits associated with the availability and furnishing of extraterritorial assistance in the event of a local emergency.

NOW, THEREFORE, in consideration of the mutual agreements herein made, the City of Port Wentworth and the City of Pooler do hereby mutually agree as follows:

ARTICLE I
INCORPORATION OF RECITALS

The recitals set forth in this Mutual Aid and Assistance Agreement are, by this reference, incorporated into and deemed a part of this Agreement.

ARTICLE II
DEFINITIONS AND AUTHORITIES

For purposes of this agreement, the following terms and expressions shall apply:

(a) "Assistance" includes personnel, equipment, facilities, services, supplies and other resources furnished to a Requesting Party pursuant to this agreement during an emergency or disaster.

(b) "Assisting Party" means a Participating Party that provides assistance pursuant to this agreement during an emergency.

(c) "Authorized Representative" means a Participating Party's elected or appointed official or employee who has been authorized in writing by that party to request,

to offer, or otherwise to provide assistance under the terms of this agreement. The City of Port Wentworth Authorized Representative shall be the Chief of the Port Wentworth Police Department or their designee.

(d) "Local Emergency" means the existence of conditions of extreme peril to the safety or persons and property within the territorial limits of the City of Port Wentworth or the City of Pooler caused by natural disaster, riot, civil disturbance, or other situation presenting major law enforcement and other public safety problems, which conditions are or are likely to be beyond the control of the services, personnel, equipment, and facilities of the City of Port Wentworth or the City of Pooler.

(d) "Participating Party" or "Participating Parties" refers to the City of Port Wentworth and the City of Pooler, which became parties to this agreement by their approval and execution hereof.

(e) "Requesting Party" means a Participating Party that requests assistance pursuant to this agreement during an emergency.

Any term or expression not defined in this agreement shall have the meaning specified in the Georgia Mutual Aid Act, as amended and rules promulgated thereunder, unless used in a context that clearly suggests a different meaning.

ARTICLE III
PARTICIPATING PARTY RESPONSIBILITIES

(a) Upon receipt of a request from a Requesting Party for assistance in a local emergency, the prevention or detection of violation of any law, the apprehension or arrest of any person who violates a criminal law of the state of Georgia, or in any criminal case, the Assisting Party shall take such action as is necessary to provide and make available the public safety resources contemplated by and in accordance with this Agreement. The Assisting Party may withhold or withdraw its resources if, in its sole discretion, to do otherwise would leave its jurisdiction without sufficient personnel or assets to service any incident which might subsequently arise therein. Requests for assistance may be verbal or in writing; provided, however, that verbal requests shall be confirmed in writing within 30 days of the verbal request. Requests shall provide the following information:

(1) A description of the emergency service function for which assistance is needed;

(2) The amount and type of personnel, equipment, materials and supplies needed, and a reasonable estimate of the length of time they will be needed; and

(3) The specific place and time for staging of the Assisting Party's response and a point of contact at that location.

(b) The Assisting Party will:

(1) Maintain daily personnel time records, material records and a log of equipment hours, or mileage as may be appropriate; and

(2) Report work progress to the Requesting Party at mutually agreed upon intervals.

Employees of the Assisting Party shall remain employees of their own agency and operate under the command and control of their regular leaders; however, the organizational units will come under the operational control of the Requesting Party.

ARTICLE IV
LIMITATIONS AND EXCEPTIONS

(a) The provisions of this agreement shall not be construed as creating a duty to respond to a request for assistance on the part of any emergency or public safety personnel of a Participating Party. Furthermore, this agreement shall not be construed to create a duty on the part of any emergency or public safety personnel to remain at the scene of a local emergency for any length of time.

(b) The Assisting Party may at any time recall its assistance when in the best judgment and sole direction of its Authorized Representative, or by order of the governing body of the Assisting Party, it is considered to be in the best interests of the assisting party to do so. When continued assistance requires the recall of additional or off-duty personnel by the Assisting Party, that fact shall be communicated to the Requesting Party and, when approved by the Requesting Party, compensation of those individuals shall become the Requesting Party's responsibility.

(c) In accordance with O.C.G.A. § 36-69-10, as amended, the provisions of this agreement shall not apply to any emergency in which the chief executive officer of a Participating Party assigns or makes available for duty the employees, property or equipment of that party relating to fire-fighting, engineering, rescue, health, medical and related services, and to police, transportation, construction and similar items or services for emergency management purposes outside of the physical limits of the Participating Party as provided by the Georgia Emergency Management Act, O.C.G.A. §§ 38-3-27, *et seq*., as amended.

ARTICLE V
PRIVILEGES AND IMMUNITIES FROM LIABILITY

(a) In accordance with O.C.G.A. § 36-69-4, as amended, whenever the employees of a Participating Party are rendering aid outside their political subdivision and pursuant to the authority contemplated by this agreement and GMAA, such employees

shall have the same powers, duties, rights privileges and immunities as if they were performing their duties in the political subdivision in which they are normally employed.

(b) In accordance with O.C.G.A. § 36-69-6, as amended, all of the privileges and immunities from liability; exemption from laws, ordinances, and rules; and all pension, insurance, relief, disability, workers' compensation, salary, death, and other benefits which apply to the activity of Participating Party officers, agents or employees when performing their respective functions within the territorial limits of their respective political subdivisions shall apply to such officers, agents or employees to the same degree, manner and extent while engaged in the performance of any of their functions and duties extraterritorially under the terms of this agreement and authority of GMAA.

(c) In accordance with O.C.G.A. § 36-69-7, as amended, neither a public safety agency which requests assistance pursuant to this agreement, nor the Participating Parties shall be liable for any acts or omissions of the employees of an Assisting Party rendering assistance extraterritorially under the terms of this agreement and authority of GMAA.

(d) No party to this agreement, nor any officer, employee or agent of any Participating Party, shall be liable to any person on account of failure of any party to furnish its emergency response equipment or personnel in response to a call for assistance.

(e) It is the express intent of the Participating Parties that the immunities specified herein shall be construed in accordance with Georgia law and shall apply in addition to any other immunities provided by statutory or case law.

ARTICLE VI
COSTS

(a) In accordance with O.C.G.A. § 36-69-5, Assisting Party shall bear the loss or damage to any of its equipment furnished pursuant to this Agreement. Assisting Party shall also pay any expense incurred in the operation and maintenance of such equipment.

(b) In accordance with O.C.G.A. § 36-69-5, the Assisting Party shall compensate its employees during the time of rendering aid and shall defray the actual travel and maintenance expenses of such employees while they are rendering such aid. Such compensation shall include any amounts paid or due for compensation due to personal injury or death while such employees are engaged in rendering such aid.

(c) Each party shall bear its own responsibility and be liable for any claims, demands, suits, actions, damages and causes of action arising out of or occurring during travel to or from its own or a Requesting Party's emergency site and no indemnification or hold harmless agreement shall be in effect concerning such claims, demands, suits, actions, damages and causes of action.

ARTICLE VII
ASSIGNMENT

No part of this agreement is assignable to any other person.

ARTICLE VIII
VALIDITY

This agreement shall be construed to effectuate the purposes recited herein. If any provision of this agreement is declared unconstitutional, or the applicability thereof to any person or circumstances is held to be invalid, the constitutionality of the remainder of this agreement and applicability thereof to other persons and circumstances shall not be affected thereby.

ARTICLE IX
TERM OF AGREEMENT

This agreement shall be effective as of the date set forth above and shall continue for a term of one year. This agreement shall automatically renew for additional one-year terms not to exceed forty-nine years unless terminated in accordance with Article X below. Each term shall constitute a separate agreement.

ARTICLE X
TERMINATION OF AGREEMENT

Either Participating Party may withdraw from this agreement by mailing notice of withdrawal, approved by its governing body, but no such withdrawal shall take effect until 30 days after the governing authority of the withdrawing party has given notice in writing of such withdrawal to the governing authority of the non-withdrawing party. Such action shall not relieve the withdrawing party from obligations assumed hereunder prior to the effective date of withdrawal.

[signatures on following page]

Agreed:

fTHE CITY OF POOLER ATTEST:

_____ _____

THE CITY OF PORT WENTWORTH ATTEST:

_____ _____
MAYOR CLERK OF COUNCIL
Gary Norton

MUTUAL AID AND ASSISTANCE AGREEMENT

This Mutual Aid and Assistance Agreement (the "Agreement") is made and entered into this _____ day of _____, 2025 by and between the Mayor and Aldermen of the City of Savannah (the "City of Savannah" or "Savannah") and The Mayor of The City of Port Wentworth, Georgia.

WITNESSETH:

WHEREAS, the Constitution of the State of Georgia of 1983 at Article 9, Section 3, Paragraph 1 provides that municipalities, counties and political subdivisions of this State may enter into agreements with one another for the provision of services by intergovernmental agreements for a period not to exceed fifty years; and

WHEREAS, the Georgia Mutual Aid Act of 1988 (the "GMAA"), O.C.G.A. §§ 36-69-1 *et seq.*, provides for intergovernmental cooperation in the provision of extraterritorial police services and assistance in the event of a local emergency; and

WHEREAS, the City of Savannah and the City of Port Wentworth specifically recognize the reciprocal benefits associated with the availability and furnishing of extraterritorial assistance in the event of a local emergency.

NOW, THEREFORE, in consideration of the mutual agreements herein made, the City of Savannah and the City of Port Wentworth do hereby mutually agree as follows:

ARTICLE I
INCORPORATION OF RECITALS

The recitals set forth in this Mutual Aid and Assistance Agreement are, by this reference, incorporated into and deemed a part of this Agreement.

ARTICLE II
DEFINITIONS AND AUTHORITIES

For purposes of this agreement, the following terms and expressions shall apply:

(a) "Assistance" includes personnel, equipment, facilities, services, supplies and other resources furnished to a Requesting Party pursuant to this agreement during an emergency or disaster.

(b) "Assisting Party" means a Participating Party that provides assistance pursuant to this agreement during an emergency.

(c) "Authorized Representative" means a Participating Party's elected or appointed official or employee who has been authorized in writing by that party to request,

to offer, or otherwise to provide assistance under the terms of this agreement. The City of Savannah's Authorized Representative shall be the Chief of the Savannah Police Department or their designee.

(d) "Local Emergency" means the existence of conditions of extreme peril to the safety or persons and property within the territorial limits of the City of Savannah or the City of Port Wentworth caused by natural disaster, riot, civil disturbance, or other situation presenting major law enforcement and other public safety problems, which conditions are or are likely to be beyond the control of the services, personnel, equipment, and facilities of the City of Savanah or the City of Port Wentworth.

(d) "Participating Party" or "Participating Parties" refers to the City of Savannah and the City of Port Wentworth, which became parties to this agreement by their approval and execution hereof.

(e) "Requesting Party" means a Participating Party that requests assistance pursuant to this agreement during an emergency.

Any term or expression not defined in this agreement shall have the meaning specified in the Georgia Mutual Aid Act, as amended and rules promulgated thereunder, unless used in a context that clearly suggests a different meaning.

ARTICLE III
PARTICIPATING PARTY RESPONSIBILITIES

(a) Upon receipt of a request from a Requesting Party for assistance in a local emergency, the prevention or detection of violation of any law, the apprehension or arrest of any person who violates a criminal law of the state of Georgia, or in any criminal case, the Assisting Party shall take such action as is necessary to provide and make available the public safety resources contemplated by and in accordance with this Agreement. The Assisting Party may withhold or withdraw its resources if, in its sole discretion, to do otherwise would leave its jurisdiction without sufficient personnel or assets to service any incident which might subsequently arise therein. Requests for assistance may be verbal or in writing; provided, however, that verbal requests shall be confirmed in writing within 30 days of the verbal request. Requests shall provide the following information:

(1) A description of the emergency service function for which assistance is needed;

(2) The amount and type of personnel, equipment, materials and supplies needed, and a reasonable estimate of the length of time they will be needed; and

(3) The specific place and time for staging of the Assisting Party's response and a point of contact at that location.

(b) The Assisting Party will:

(1) Maintain daily personnel time records, material records and a log of equipment hours, or mileage as may be appropriate; and

(2) Report work progress to the Requesting Party at mutually agreed upon intervals.

Employees of the Assisting Party shall remain employees of their own agency and operate under the command and control of their regular leaders; however, the organizational units will come under the operational control of the Requesting Party.

ARTICLE IV
LIMITATIONS AND EXCEPTIONS

(a) The provisions of this agreement shall not be construed as creating a duty to respond to a request for assistance on the part of any emergency or public safety personnel of a Participating Party. Furthermore, this agreement shall not be construed to create a duty on the part of any emergency or public safety personnel to remain at the scene of a local emergency for any length of time.

(b) The Assisting Party may at any time recall its assistance when in the best judgment and sole direction of its Authorized Representative, or by order of the governing body of the Assisting Party, it is considered to be in the best interests of the assisting party to do so. When continued assistance requires the recall of additional or off-duty personnel by the Assisting Party, that fact shall be communicated to the Requesting Party and, when approved by the Requesting Party, compensation of those individuals shall become the Requesting Party's responsibility.

(c) In accordance with O.C.G.A. § 36-69-10, as amended, the provisions of this agreement shall not apply to any emergency in which the chief executive officer of a Participating Party assigns or makes available for duty the employees, property or equipment of that party relating to fire-fighting, engineering, rescue, health, medical and related services, and to police, transportation, construction and similar items or services for emergency management purposes outside of the physical limits of the Participating Party as provided by the Georgia Emergency Management Act, O.C.G.A. §§ 38-3-27, *et seq*., as amended.

ARTICLE V
PRIVILEGES AND IMMUNITIES FROM LIABILITY

(a) In accordance with O.C.G.A. § 36-69-4, as amended, whenever the employees of a Participating Party are rendering aid outside their political subdivision and pursuant to the authority contemplated by this agreement and GMAA, such employees

shall have the same powers, duties, rights privileges and immunities as if they were performing their duties in the political subdivision in which they are normally employed.

(b) In accordance with O.C.G.A. § 36-69-6, as amended, all of the privileges and immunities from liability; exemption from laws, ordinances, and rules; and all pension, insurance, relief, disability, workers' compensation, salary, death, and other benefits which apply to the activity of Participating Party officers, agents or employees when performing their respective functions within the territorial limits of their respective political subdivisions shall apply to such officers, agents or employees to the same degree, manner and extent while engaged in the performance of any of their functions and duties extraterritorially under the terms of this agreement and authority of GMAA.

(c) In accordance with O.C.G.A. § 36-69-7, as amended, neither a public safety agency which requests assistance pursuant to this agreement, nor the Participating Parties shall be liable for any acts or omissions of the employees of an Assisting Party rendering assistance extraterritorially under the terms of this agreement and authority of GMAA.

(d) No party to this agreement, nor any officer, employee or agent of any Participating Party, shall be liable to any person on account of failure of any party to furnish its emergency response equipment or personnel in response to a call for assistance.

(e) It is the express intent of the Participating Parties that the immunities specified herein shall be construed in accordance with Georgia law and shall apply in addition to any other immunities provided by statutory or case law.

ARTICLE VI
COSTS

(a) In accordance with O.C.G.A. § 36-69-5, Assisting Party shall bear the loss or damage to any of its equipment furnished pursuant to this Agreement. Assisting Party shall also pay any expense incurred in the operation and maintenance of such equipment.

(b) In accordance with O.C.G.A. § 36-69-5, the Assisting Party shall compensate its employees during the time of rendering aid and shall defray the actual travel and maintenance expenses of such employees while they are rendering such aid. Such compensation shall include any amounts paid or due for compensation due to personal injury or death while such employees are engaged in rendering such aid.

(c) Each party shall bear its own responsibility and be liable for any claims, demands, suits, actions, damages and causes of action arising out of or occurring during travel to or from its own or a Requesting Party's emergency site and no indemnification or hold harmless agreement shall be in effect concerning such claims, demands, suits, actions, damages and causes of action.

ARTICLE VII
ASSIGNMENT

No part of this agreement is assignable to any other person.

ARTICLE VIII
VALIDITY

This agreement shall be construed to effectuate the purposes recited herein. If any provision of this agreement is declared unconstitutional, or the applicability thereof to any person or circumstances is held to be invalid, the constitutionality of the remainder of this agreement and applicability thereof to other persons and circumstances shall not be affected thereby.

ARTICLE IX
TERM OF AGREEMENT

This agreement shall be effective as of the date set forth above and shall continue for a term of one year. This agreement shall automatically renew for additional one-year terms not to exceed forty-nine years unless terminated in accordance with Article X below. Each term shall constitute a separate agreement.

ARTICLE X
TERMINATION OF AGREEMENT

Either Participating Party may withdraw from this agreement by mailing notice of withdrawal, approved by its governing body, but no such withdrawal shall take effect until 30 days after the governing authority of the withdrawing party has given notice in writing of such withdrawal to the governing authority of the non-withdrawing party. Such action shall not relieve the withdrawing party from obligations assumed hereunder prior to the effective date of withdrawal.

[signatures on following page]

Agreed:

THE MAYOR AND ALDERMEN OF
THE CITY OF SAVANNAH

ATTEST:

_____

Jay Melder
CITY MANAGER

_____

CLERK OF COUNCIL

THE CITY OF PORT WENTWORTH

ATTEST:

_____

MAYOR
Gary Norton

_____

CLERK OF COUNCIL

MUTUAL AID AND ASSISTANCE AGREEMENT

This Mutual Aid and Assistance Agreement (the "Agreement") is made and entered into this _____ day of _____, 2025 by and between the Mayor and Council of the City of Port Wentworth (the "City of Port Wentworth" or "Port Wentworth") and The Town of Thunderbolt, Georgia.

WITNESSETH:

WHEREAS, the Constitution of the State of Georgia of 1983 at Article 9, Section 3, Paragraph 1 provides that municipalities, counties and political subdivisions of this State may enter into agreements with one another for the provision of services by intergovernmental agreements for a period not to exceed fifty years; and

WHEREAS, the Georgia Mutual Aid Act of 1988 (the "GMAA"), O.C.G.A. §§ 36-69-1 *et seq.*, provides for intergovernmental cooperation in the provision of extraterritorial police services and assistance in the event of a local emergency; and

WHEREAS, the City of Port Wentworth and the Town of Thunderbolt specifically recognize the reciprocal benefits associated with the availability and furnishing of extraterritorial assistance in the event of a local emergency.

NOW, THEREFORE, in consideration of the mutual agreements herein made, the City of Port Wentworth and the Town of Thunderbolt do hereby mutually agree as follows:

ARTICLE I
INCORPORATION OF RECITALS

The recitals set forth in this Mutual Aid and Assistance Agreement are, by this reference, incorporated into and deemed a part of this Agreement.

ARTICLE II
DEFINITIONS AND AUTHORITIES

For purposes of this agreement, the following terms and expressions shall apply:

(a) "Assistance" includes personnel, equipment, facilities, services, supplies and other resources furnished to a Requesting Party pursuant to this agreement during an emergency or disaster.

(b) "Assisting Party" means a Participating Party that provides assistance pursuant to this agreement during an emergency.

(c) "Authorized Representative" means a Participating Party's elected or appointed official or employee who has been authorized in writing by that party to request,

to offer, or otherwise to provide assistance under the terms of this agreement. The City of Port Wentworth Authorized Representative shall be the Chief of the Port Wentworth Police Department or their designee.

(d) "Local Emergency" means the existence of conditions of extreme peril to the safety or persons and property within the territorial limits of the City of Port Wentworth or the Town of Thunderbolt caused by natural disaster, riot, civil disturbance, or other situation presenting major law enforcement and other public safety problems, which conditions are or are likely to be beyond the control of the services, personnel, equipment, and facilities of the City of Port Wentworth or the Town of Thunderbolt.

(d) "Participating Party" or "Participating Parties" refers to the City of Port Wentworth and the Town of Thunderbolt, which became parties to this agreement by their approval and execution hereof.

(e) "Requesting Party" means a Participating Party that requests assistance pursuant to this agreement during an emergency.

Any term or expression not defined in this agreement shall have the meaning specified in the Georgia Mutual Aid Act, as amended and rules promulgated thereunder, unless used in a context that clearly suggests a different meaning.

ARTICLE III
PARTICIPATING PARTY RESPONSIBILITIES

(a) Upon receipt of a request from a Requesting Party for assistance in a local emergency, the prevention or detection of violation of any law, the apprehension or arrest of any person who violates a criminal law of the state of Georgia, or in any criminal case, the Assisting Party shall take such action as is necessary to provide and make available the public safety resources contemplated by and in accordance with this Agreement. The Assisting Party may withhold or withdraw its resources if, in its sole discretion, to do otherwise would leave its jurisdiction without sufficient personnel or assets to service any incident which might subsequently arise therein. Requests for assistance may be verbal or in writing; provided, however, that verbal requests shall be confirmed in writing within 30 days of the verbal request. Requests shall provide the following information:

(1) A description of the emergency service function for which assistance is needed;

(2) The amount and type of personnel, equipment, materials and supplies needed, and a reasonable estimate of the length of time they will be needed; and

(3) The specific place and time for staging of the Assisting Party's response and a point of contact at that location.

(b) The Assisting Party will:

(1) Maintain daily personnel time records, material records and a log of equipment hours, or mileage as may be appropriate; and

(2) Report work progress to the Requesting Party at mutually agreed upon intervals.

Employees of the Assisting Party shall remain employees of their own agency and operate under the command and control of their regular leaders; however, the organizational units will come under the operational control of the Requesting Party.

ARTICLE IV
LIMITATIONS AND EXCEPTIONS

(a) The provisions of this agreement shall not be construed as creating a duty to respond to a request for assistance on the part of any emergency or public safety personnel of a Participating Party. Furthermore, this agreement shall not be construed to create a duty on the part of any emergency or public safety personnel to remain at the scene of a local emergency for any length of time.

(b) The Assisting Party may at any time recall its assistance when in the best judgment and sole direction of its Authorized Representative, or by order of the governing body of the Assisting Party, it is considered to be in the best interests of the assisting party to do so. When continued assistance requires the recall of additional or off-duty personnel by the Assisting Party, that fact shall be communicated to the Requesting Party and, when approved by the Requesting Party, compensation of those individuals shall become the Requesting Party's responsibility.

(c) In accordance with O.C.G.A. § 36-69-10, as amended, the provisions of this agreement shall not apply to any emergency in which the chief executive officer of a Participating Party assigns or makes available for duty the employees, property or equipment of that party relating to fire-fighting, engineering, rescue, health, medical and related services, and to police, transportation, construction and similar items or services for emergency management purposes outside of the physical limits of the Participating Party as provided by the Georgia Emergency Management Act, O.C.G.A. §§ 38-3-27, *et seq*., as amended.

ARTICLE V
PRIVILEGES AND IMMUNITIES FROM LIABILITY

(a) In accordance with O.C.G.A. § 36-69-4, as amended, whenever the employees of a Participating Party are rendering aid outside their political subdivision and pursuant to the authority contemplated by this agreement and GMAA, such employees

shall have the same powers, duties, rights privileges and immunities as if they were performing their duties in the political subdivision in which they are normally employed.

(b) In accordance with O.C.G.A. § 36-69-6, as amended, all of the privileges and immunities from liability; exemption from laws, ordinances, and rules; and all pension, insurance, relief, disability, workers' compensation, salary, death, and other benefits which apply to the activity of Participating Party officers, agents or employees when performing their respective functions within the territorial limits of their respective political subdivisions shall apply to such officers, agents or employees to the same degree, manner and extent while engaged in the performance of any of their functions and duties extraterritorially under the terms of this agreement and authority of GMAA.

(c) In accordance with O.C.G.A. § 36-69-7, as amended, neither a public safety agency which requests assistance pursuant to this agreement, nor the Participating Parties shall be liable for any acts or omissions of the employees of an Assisting Party rendering assistance extraterritorially under the terms of this agreement and authority of GMAA.

(d) No party to this agreement, nor any officer, employee or agent of any Participating Party, shall be liable to any person on account of failure of any party to furnish its emergency response equipment or personnel in response to a call for assistance.

(e) It is the express intent of the Participating Parties that the immunities specified herein shall be construed in accordance with Georgia law and shall apply in addition to any other immunities provided by statutory or case law.

ARTICLE VI
COSTS

(a) In accordance with O.C.G.A. § 36-69-5, Assisting Party shall bear the loss or damage to any of its equipment furnished pursuant to this Agreement. Assisting Party shall also pay any expense incurred in the operation and maintenance of such equipment.

(b) In accordance with O.C.G.A. § 36-69-5, the Assisting Party shall compensate its employees during the time of rendering aid and shall defray the actual travel and maintenance expenses of such employees while they are rendering such aid. Such compensation shall include any amounts paid or due for compensation due to personal injury or death while such employees are engaged in rendering such aid.

(c) Each party shall bear its own responsibility and be liable for any claims, demands, suits, actions, damages and causes of action arising out of or occurring during travel to or from its own or a Requesting Party's emergency site and no indemnification or hold harmless agreement shall be in effect concerning such claims, demands, suits, actions, damages and causes of action.

ARTICLE VII
ASSIGNMENT

No part of this agreement is assignable to any other person.

ARTICLE VIII
VALIDITY

This agreement shall be construed to effectuate the purposes recited herein. If any provision of this agreement is declared unconstitutional, or the applicability thereof to any person or circumstances is held to be invalid, the constitutionality of the remainder of this agreement and applicability thereof to other persons and circumstances shall not be affected thereby.

ARTICLE IX
TERM OF AGREEMENT

This agreement shall be effective as of the date set forth above and shall continue for a term of one year. This agreement shall automatically renew for additional one-year terms not to exceed forty-nine years unless terminated in accordance with Article X below. Each term shall constitute a separate agreement.

ARTICLE X
TERMINATION OF AGREEMENT

Either Participating Party may withdraw from this agreement by mailing notice of withdrawal, approved by its governing body, but no such withdrawal shall take effect until 30 days after the governing authority of the withdrawing party has given notice in writing of such withdrawal to the governing authority of the non-withdrawing party. Such action shall not relieve the withdrawing party from obligations assumed hereunder prior to the effective date of withdrawal.

[signatures on following page]

Agreed:

THE TOWN OF THUNDERBOLT

_____

ATTEST:

_____

THE CITY OF PORT WENTWORTH

_____
MAYOR
Gary Norton

ATTEST:

_____
CLERK OF COUNCIL

City Council
7224 GA Highway 21
Port Wentworth, GA 31407

SCHEDULED

Meeting: 03/20/25
Department: Fire Department
Category: Agreement
Prepared By: Zahnay Smoak
Department Head:

AGENDA ITEM (ID)

DOC ID:

County's Emergency Operations Plan

Issue/Item: Chatham County's Emergency Operations Plan (EOP)

Background: Every five years, the State requires the County's Emergency Operations Plan (EOP) to be adopted by signature. This is something that we currently use for emergency operations planning, this is the latest update. Additionally, Chatham County Code 4-308.2.c defines adoption requirements:

Chatham County Emergency Management Ordinance, Section 4-308.2.c: The Plan shall be submitted to the Chatham County Manager, Municipal Government Managers, and Georgia Office of Homeland Security/Georgia Emergency Management Agency for review, comment, and recommendation to the Chatham County Commission and the Municipal Councils. The Plan shall be adopted by the County Commission and Municipal Councils by signature and may be changed and updated periodically by signature.

Facts and Finding: N/A

Funding: N/A

Recommendation: Approve

CHATHAM COUNTY

EMERGENCY OPERATIONS PLAN

JANUARY 2025

Chatham Emergency Management Agency
124 Bull Street, Room 140
Savannah, GA 31401
912-201-4500
ChathamEmergency.org

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AUTHORITY LETTER

The most fundamental function of government is providing for the safety and welfare of the public. An effective emergency management program is essential to ensuring Chatham County fulfills this responsibility when our residents and visitors are threatened or impacted by emergencies or disasters.

The Chatham County Emergency Operations Plan (EOP) establishes the framework the county will use to organize and coordinate its emergency management activities when needed to save lives and to protect public safety, health, welfare and property. This EOP is not intended to address specific emergency responses, scenarios, hazards, or threats. Functional and hazard specific annexes/guides to this EOP will outline specific response activities for relevant organizations.

This EOP accomplishes the following:

- Establishes an incident management organization which will coordinate and support on-scene responses including maintenance of situational awareness, facilitation of effective communication between operations centers at various levels of government, maintain continuity of government, and interaction with public information sources.
- Establishes the overall operational concepts associated with the management of incidents, emergencies, crises, disasters, and catastrophes.
- Provides a flexible platform for planning and response to all hazards incidents, events, and emergencies. It is applicable to a wide variety of anticipated incident events including earthquake, wildland fires, floods, and public health issues.

This plan establishes the emergency management responsibilities of County departments and other agencies, and identifies how they will work with the Chatham Emergency Management Agency (CEMA) to ensure Chatham County is prepared to execute a well-coordinated, timely and consistent disaster response. The plan also addresses how the county's activities will be integrated with state and federal agencies and incorporate elements from the private sector and non-governmental organizations.

This EOP continues Chatham County's compliance with the National Incident Management System (NIMS), the Incident Command System (ICS), the National Response Framework (NRF), and the National Preparedness Guidelines to include the *Comprehensive Preparedness Guide 101: Developing and Maintaining Emergency Operations Plans*. It facilitates multi-agency and multi-jurisdictional coordination during emergency operations, public information functions, and resource management.

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APPROVAL AND IMPLEMENTATION

The Chatham Emergency Management Agency maintains the Chatham County Emergency Operations Plan and presents the plan to the Chatham County Commission and each municipal Council for adoption.

The Chatham County Emergency Operations Plan was developed by Chatham Emergency Management Agency in coordination with each municipality within Chatham County, non-governmental organizations and private sector organizations and is aligned with the National Incident Management System as well as the National Response Framework and the National Disaster Recovery Framework. In addition, Chatham Emergency Management Agency modified the Emergency Operations Plan, its appendices, Emergency Support Function Annexes, Support Annexes and Incident Annexes to incorporate lessons learned from exercises, training, incidents and real world events.

This plan supersedes the Chatham County Emergency Operations Plan dated July 2020.

_____

Dennis T. Jones, Director
Chatham Emergency Management Agency
January 2025

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RECORD OF CHANGES

Each update or change to the plan should be tracked. The record of changes, usually in table format, contains, at a minimum, a change number, the date of the change, the name of the person who made the change, and a summary of the change. Other relevant information could be considered.

Change #	Date	Part Affected	Date Posted	Who Posted
1		Document re-write		Mathews
2		Re-organization of ESF's, creation of new ESF's		Mathews
3	01/2025	Document Review and Adoption		Mathews

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RECORD OF DISTRIBUTION

The record of distribution, usually in table format, indicates the title and the name of the person receiving the plan, the agency to which the recipient belongs, the date of delivery, and the number of copies delivered. Other relevant information could be considered. The record of distribution can be used to prove that tasked individuals and organizations have acknowledged their receipt, review, and/or acceptance of the plan. Copies of the plan can be made available to the public and media without SOPs/SOGs, call-down lists, or other sensitive information.

Agency	Name, Title	Date of Delivery	Copies

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SIGNATURE PAGE

Jurisdiction	Name, Title	Signature	Date
Chatham County	Chester A. Ellis, Chairman		
City of Bloomingdale	Dennis Baxter, Mayor		
City of Garden City	Bruce Campbell, Mayor		
City of Pooler	Karen Williams, Mayor		
City of Port Wentworth	Gary Norton, Mayor		
City of Savannah	Van Johnson, Mayor		
Town of Thunderbolt	Dana Williams, Mayor		
City of Tybee Island	Brian West, Mayor		
Vernonburg	Laura Lawton, Mayor		

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1.0 Introduction

1.1 Purpose

The Chatham County Emergency Operations Plan (EOP) herein referred to as the "Base Plan" or EOP establishes a framework for the effective coordination of response and initial recovery operations during large-scale or complex emergencies and disasters.

This plan defines roles and responsibilities for emergency management functions, establishes the conditions under which resources are mobilized and describes the organizational concepts and structures used to coordinate actions.

The EOP reflects an all-hazards approach to planning, meaning a similar concept of operations can be applied to all types of emergency situations, regardless of the exact nature of the incident. An all-hazards approach allows for the fact that some incidents have unique planning and response considerations requiring special attention. Incident Annexes to the base plan provide additional direction and guidance for specific types of emergencies or disasters.

1.2 Scope

This EOP provides guidance on response activities to Chatham County's most likely and demanding emergency conditions. It does not supersede well-established operational policies and procedures for coping with and responding to day-to-day emergencies involving law enforcement, fire service, medical aid, transportation services, flood control, or other discipline-specific emergency response systems. It is intended as a supplement and compliment to such systems. Organizational response tactics and procedures may evolve over time and should be utilized by those departments. The EOP is considered an emergency response framework, not a tactical response document. This EOP does, however, place emphasis on those unusual and unique emergency conditions that will require extraordinary response beyond the ability of any one or common set of organizations to respond. The plan does not include detailed response level operating instructions or procedures. Each organization identified in this EOP is responsible for, and expected to develop, implement, and test policies, instructions, and standard operating procedures (SOPs) or checklists that reflect the tactical, operational, strategic, and executive mission spaces and incident management concepts contained in this EOP. Coordinated response and support roles must be defined by these organizations to facilitate the ability to respond to and manage any given incident.

This document is not intended to be an overview of the Emergency Operations Center functions, procedures, section responsibilities, or positions specific standard operating procedures.

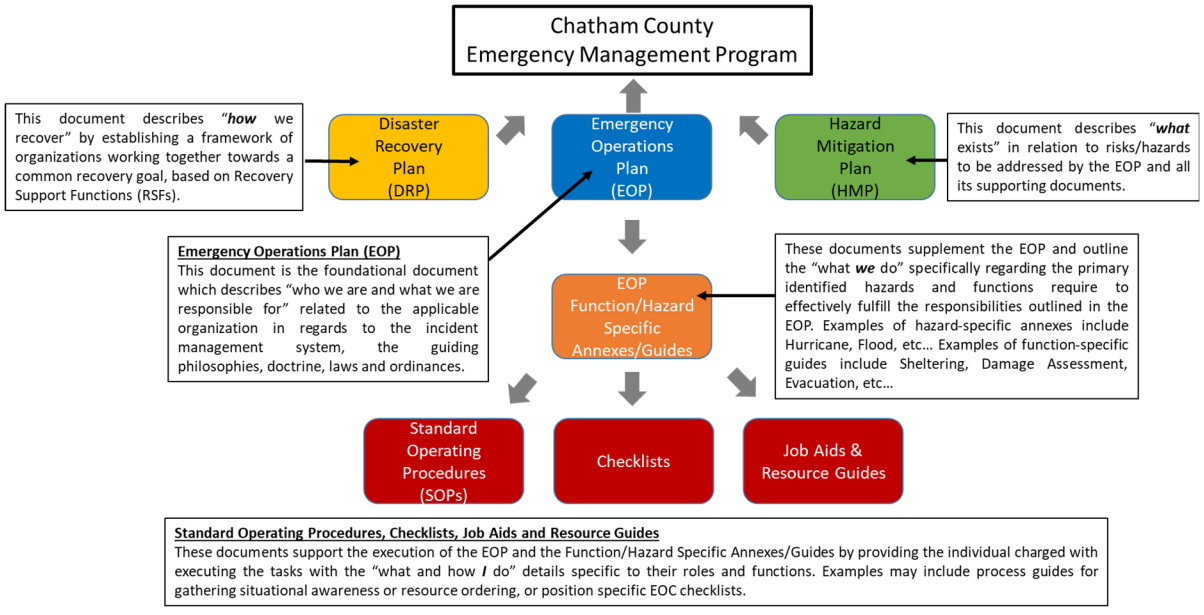
1.2.1 Plan Components

- **Base Plan:** The Base Plan serves as the fundamental framework for countywide emergency management. It outlines the county's hazard vulnerabilities, planning assumptions, and establishes the authorities, responsibilities, operational priorities and general strategies for local emergency operations that apply regardless of the specific type of emergency or disaster.

- **Emergency Support Function (ESF) Annexes:** County Departments, as well as jurisdictional agencies and non-governmental organizations are organized into 19 functional groups called ESFs. Each ESF has an annex to the EOP that defines the purpose, scope, identifies assigned agencies, establishes roles and responsibilities and describes how these agencies will coordinate during an emergency.

- **Support Annexes:** Support Annexes address commonly required emergency functions that do not fall within the scope of ESFs. These Annexes address the plans and coordination required from tasked agencies to support the functional area in an emergency. The Support Annexes are not incident-specific and are intended to be applicable to incident of all types. Examples include Training and Exercise and EOC Staff Manual.

- **Incident Annexes:** While the EOP is an all-hazards plan, some incident types warrant additional attention based on the level of risk they present, unique planning requirements or regulations involved. Incident Annexes are provided for those hazards that require consideration.



1.3 Situation Overview / Hazard Analysis

Chatham County, with an approximate population of 295,291 (U.S. Census Bureau 2020 census) is the northern-most county on the Georgia Coastline. The county as a whole is approximately 632 square miles, of which 426 square miles is land and 206 square miles is comprised of water.

Hazards addressed in this plan were determined by the Hazard Mitigation Planning Team based on available data and consideration of hazard frequency and potential severity of damage. Where available, hazard frequency based on past occurrence data is used to suggest future probability. Further information regarding the hazards, risks and vulnerabilities can be referenced in the Chatham County Multi-Jurisdictional Hazard Mitigation Plan.

1.3.1 Hazards

Natural Hazards	Technological Hazards	Adversarial Hazards
• Drought • Earthquake • Extreme Heat • Flood • Infectious Disease • Sea Level Rise • Severe Weather • Severe Winter Storm • Tornado • Tropical Cyclone • Wildfire	• Cyber Attack • Hazardous Materials • Levee/Dam Failure • Mass Casualty	• Active Shooter/Threat • Mass Casualty • Terrorism

1.3.2 Hazard Preparedness Actions

In order prepare the community for these potential events, actions can be taken in each of the five mission areas of preparedness.

- Mitigation
- Prevention
- Protection
- Response
- Recovery



	Natural Hazards	Technological Hazards	Adversarial Hazards
MITIGATE	• Drainage improvements	• Structure hardening • Redundant systems	• Structure hardening
PREVENT	• Flood zone regulations • Land use ordinances • Community outreach	• Zoning regulations • Planning and coordination with private sector	• N/A
PROTECT	• Enhanced warning systems • Preemptive deployment	• Enhanced warning systems • Community Outreach	• Critical infrastructure security • Enhanced warning systems
RESPOND	• Preemptive deployment • Coordinated response	• Technical response capabilities • Coordinated response	• Tactical response capabilities • Coordinated response
RECOVER	• Coordinated planning • Stakeholder engagement	• Coordinated planning	• Coordinated planning

1.4 Planning Assumptions

These identify what the planning team assumes to be facts for planning purposes in order to make it possible to execute the document. During operations, the assumptions indicate areas where adjustments to the plan have to be made as the facts of the incident become known. These also provide the opportunity to communicate the intent of senior officials regarding emergency operations priorities. The following actions can be assumed when activating this plan:

- An emergency may occur at any time and may affect single or multiple jurisdictional areas. Some incidents will occur with enough warning to allow for activation and preparation prior to the onset of emergency conditions. Other incidents will be no-notice that occur without warning.

- All incidents begin and end locally. Municipalities maintain operational control and responsibility for emergency activities within their jurisdictions, unless otherwise superseded by ordinance, statute or agreement.

- When an emergency exceeds local resource and response capabilities, local governments will request assistance from the County EOC. The County will then request assistance from neighboring jurisdictions and from the State.

- Incidents in Chatham County may occur simultaneously with other events throughout the United States, constraining resources available and slowing or reducing the amount of outside assistance available to support.

- Governments, departments and agencies will develop and maintain the necessary plans, standard operating procedures, contracts and memorandums of understanding to execute emergency responsibilities assigned by the Chatham County EOP.

- Employees tasked with emergency duties that live and work within the affected area may be personally impacted by the incident and unable to report to work.

- Individuals, community-based organizations and businesses will offer services and support in time of disaster in the form of spontaneous volunteers, supplies and financial donations.

- Incidents, including large scale emergencies or events, require full coordination of operations and resources, and may:

    a) Require significant information sharing across multiple jurisdictions and between public and private sectors;
    b) Involve single or multiple jurisdictions and/or geographic areas;
    c) Have significant statewide and/or national impact and may require significant inter-governmental coordination;
    d) Involve multiple, highly varied hazards or threats on a local, regional, statewide or national scale;
    e) Result in mass casualties, displaced persons, property loss, environmental damage and disruption of the economy and normal life support systems, essential public services and basic infrastructure;
    f) Require resources to assist individuals with access and functional needs;
    g) Impact critical infrastructures across multiple sectors;
    h) Exceed the capabilities of state agencies, local governments, NGO's and private sector organizations;
    i) Attract a sizeable influx of public, private, and voluntary resources, including independent and spontaneous volunteers;
    j) Require short-notice asset coordination and response; and
    k) Require prolonged incident management operations and support activities for long-term community recovery and mitigation.

- The negative cascading effects from natural disasters may rise due to increased urban development, industrial expansion, traffic congestion and widespread use and transport of hazardous materials. These factors may increase the risk of human-caused emergencies such as hazardous materials accidents, power failures, resource shortages and environmental contamination.

2.0 Concept of Operations

2.1 General

CEMA identifies potential threats to life, property and the environment and then develops plans and procedures to respond to those threats. These plans and procedures will help to coordinate and support emergency response and recovery activities and will be tested through exercises and validated by the results of actual responses. The goal is to maintain a robust incident management organization with strong collaborative ties among governments, community-based organizations, volunteers, public service agencies, and the private sector. Chatham County conforms to, and this EOP complies with NIMS, and ICS guidelines.

2.2 National Response Framework (NRF)

The NRF is based upon the premise that incidents are handled at the lowest jurisdictional level. In the vast majority of incidents, state and local resources and interstate mutual aid will provide the first line of emergency response and incident management support. When state resources and capabilities are overwhelmed, Governors may request federal assistance. The NRF provides the framework for federal interaction with state, local, tribal, private sector and non-governmental entities in the context of domestic incident management to ensure timely and effective federal support.

The NRF is the core operational plan for national incident management, and establishes national-level coordinating structures, processes, and protocols that will be incorporated into certain existing federal interagency incident or hazard-specific plans. The NRF is intended to facilitate coordination among local, state, tribal, and federal governments and the private sector without impinging on any jurisdiction or restricting the ability of those entities to do their jobs. The NRF does not alter or impede the ability of first responders to carry out specific authorities or perform responsibilities.

The NRF and NIMS are designed to work in tandem to improve the Nation's incident management capabilities and overall efficiency. Use of NIMS enables local, state, tribal, and federal governments and private-sector and NGOs to work together effectively and efficiently to prevent, prepare for, respond to, and recover from actual or potential domestic incidents regardless of cause, size, or complexity.

2.3 National Incident Management System (NIMS)

NIMS provides a comprehensive, whole community, whole government approach to incident management for all hazards and integrates existing best practices into a consistent nationwide approach to domestic incident management that is applicable to all jurisdictional levels and across functional disciplines. NIMS is based on a balance of flexibility and standardization that allows government and private entities at all levels to work together to manage domestic incidents, regardless of their cause, size, location, or complexity. Five major components make up this system's approach: preparedness; communications and information management; resource management; command and management; and ongoing management and supporting technologies.

2.4 Incident Command System (ICS)

ICS is a primary component of NIMS, and is a standardized on-scene emergency management system designed to allow for an integrated organizational structure scalable to the complexity and demands of single or multiple incidents without being hindered by jurisdictional boundaries. ICS addresses both organization and process. ICS is used to manage facilities, equipment, personnel, procedures, and communications through the use of a common organizational structure and standardized procedures.

2.5 Integrating Federal, State, and local Systems

Taken together; the NRF, NIMS, ICS, and this EOP integrate the capabilities and resources of various governmental jurisdictions, incident management and emergency response disciplines, non-governmental organizations (NGOs), and the private sector into a cohesive, coordinated, and seamless national framework for domestic incident management. It should be understood that field level emergency responders, Emergency Operations Center (EOC) staff, department heads, elected officials, and public information officers all have a vital role in successful comprehensive incident management and make up the Incident Management Enterprise.

2.6 Phases of Emergency Management

Emergency management functions are generally grouped into four phases: mitigation, preparedness, response, and recovery. The grouping of emergency management functions is useful for classifying and conceptualizing activities. While useful for targeting efforts and resources, the phases of emergency management are not distinct—activities in each phase often overlap with other phases. For example, recovery projects often include elements of mitigation (i.e., rebuilding structures using current building codes) and response often includes recovery measures (i.e., immediate debris removal). The phases are also cyclical in nature—lessons learned from an incident are applied in preparedness efforts for future emergencies and major disasters. The following sections provide examples of the types of activities that take place in each phase.

2.6.1 Mitigation

Mitigation activities occur before, during, and after incidents. Post-disaster mitigation is part of the recovery process. Eliminating or reducing the impact of hazards that exist within Chatham County and are a threat to life and property are part of the mitigation efforts.

Mitigation tools include:

- Detailed plans to mitigate future hazards
- Land use planning
- Local ordinances and statutes (zoning ordinances, building codes, etc.)
- Structural measures
- Public information and community relations

2.6.2 Preparedness

Preparedness activities are taken in advance of an emergency and develop operational capabilities, enact protective measures, and enhance effective responses to a disaster. These activities can include emergency/disaster planning, training and exercises, and public education. Citizen Preparedness activities are key elements in this phase and a significant factor in the success of a community in responding to an emergency. Members of the incident management enterprise and local organization develop EOPs, SOPs, and checklists detailing personnel assignments, policies, notification rosters, and resource lists. Personnel are made familiar with these documents through periodic training in the activation and execution of procedures.

2.6.3 Response

The response phase can be further broken down into three types of response—pre-emergency, immediate, and on-going emergency responses.

Pre-Emergency Response (or crisis response): if warning mechanisms exist for a particular hazard then response actions to emphasize protection of life, property, and environment can be anticipated. Typical pre-emergency and crisis response actions may include:

- Alerting necessary agencies, placing critical resources on stand-by
- Warning threatened populations of the emergency and apprising them of safety measures to be implemented
- Evacuation of threatened populations to safe areas

- Identifying the need for mutual aid
- Proclamation of a Local Emergency by local authorities

Immediate Emergency Response: during this phase, emphasis is placed on saving lives and property, attempting to establish and maintain control of the situation, and minimizing effects of the disaster. Immediate response is accomplished within the affected area by local government agencies and segments of the private sector. The primary activities are on-scene by first or early responders.

On-Going (or sustained) Emergency Response: In addition to continuing preservation of life and property operations, mass care, relocation, public information, situation analysis, status and, damage assessment operations may be initiated. Ongoing response usually involves many organizations and the activation of the EOC.

Furthermore, CEMA utilizes the NIMS Incident Complexity Typing Guide to determine appropriate responses to incidents.



Type 5	• Under one Operational Period • The only ICS position staffed is the Incident Commander • The incident can be handled with one or two single resources • Command and General Staff positions (other than the Incident Commander) are not activated. • Primarily local resources used. • The incident is contained within the first operational period and often within an hour to a few hours after resources arrive on scene. • Additional resources or logistical support are not usually required. • Written Incident Action Plan (IAP) is not required. • Examples: vehicle fire, an injured person, or a police traffic stop, single vehicle crash.	CEMA not Involved unless requested
Type 4	• Under one Operational Period • Command staff and general staff functions are activated only if needed. • Several resources are required to mitigate the incident. • The agency administrator may have briefings, and ensure the complexity analysis and delegation of authority is updated. • The role of the agency administrator includes operational plans including objectives and priorities. • Command staff and general staff functions are activated only if needed. • Primarily local resources used. • Resources vary from a single resource to multiple resource task forces or strike teams. • The incident is usually limited to one operational period in the control phase. • Written IAP is not required, but a documented operational briefing will be completed for all incoming resources. • The agency administrator/official may have briefings, and ensure the complexity analysis and delegation of authority is updated. • Examples: Search and Rescue, Motor Vehicle Accidents, Small Fires, Protest Rallies, Structure Fires, small Hazardous Materials Spills, etc.	CEMA not Involved unless requested
Type 3	• When incident needs exceed capabilities, the appropriate ICS positions should be added to match the complexity of the incident. • Some or all of the command and general staff positions may be activated, as well as division/group supervisor and/or unit leader level positions. • Examples: Large Search and Rescue, Special Events, Large Fires, Large School Incidents	CEMA Involvement Discretionary
Type 2	• This type of incident extends beyond the capabilities for local control and is expected to go into multiple operational periods. • Most or all of the command and general staff positions are filled. • A written IAP is required for each operational period. • Many of the functional units are needed and staffed. • Examples: Industrial Fires, VIP Visits, Lengthy Search and Rescue, multi-day special events, Tornadoes, Floods, Events of Regional Interest.	CEMA Involved
Type 1	• This type of incident is the most complex, requiring national resources for safe and effective management and operation. • All command and general staff positions are filled. • Operations personnel often exceed 500 per operational period and total personnel will usually exceed 1,000. • Branches need to be established. • A written incident action plan (IAP) is required for each operational period. • The agency administrator will have briefings, and ensure that the complexity analysis and delegation of authority are updated. • Use of resource advisors at the incident base is recommended. • There is a high impact on the local jurisdiction, requiring additional staff for office administrative and support functions. • Example: Hurricanes, Natural Disasters, Events of National Interest.	CEMA Involved

2.6.4 Recovery

At the onset of an emergency, actions are taken to enhance the effectiveness of recovery operations. Recovery includes both short-term activities intended to return vital life-support systems to operation, and long-term activities designed to return infrastructure systems to pre-disaster conditions. The recovery phase may also include cost recovery activities. The major objectives of the recovery period include:

- Reinstatement of family and community integrity
- Provision of essential public services
- Restoration of private and public property
- Identification of residual hazards
- Preliminary plans to mitigate future hazards
- Recovery of costs associated with response and recovery efforts
- Coordination of state and federal public and individual assistance

2.7 All Hazards / Comprehensive Emergency Management

Chatham County's philosophy of emergency management is based upon the NRF, taking an all-hazards, comprehensive approach. This process allows Chatham County to establish a framework of communication, coordination and response no matter what emergency the County is facing. These inter-related actions which comprise the concept of emergency management are designed to:

- Prepare, prevents and protect against hazards;
- Respond to emergencies that occur;
- Recover and restore the community to a new normal; and
- Mitigate hazards.

Efforts related to the phases of emergency actions will take place on a continuous and scalable level based upon hazard identification, threat, vulnerability and risk to people, property, critical infrastructure and the environment.

The overall goal is to minimize the impact caused by a disaster or an emergency, creating a more disaster resilient Chatham County. It is important to remember that the emergency management process is cyclical – it is not a one-time task. Preparedness and mitigation begins well before the onset of an emergency or a disaster. Emergency management is a continual and developing process using lessons learned from previous incidents and events to improve Chatham County's capacity to manage future incidents and events.

2.8 Operational Objectives

The EOP is based on the following operational considerations:

- Initially, incidents are appropriately managed at the lowest possible level.
- Chatham County will use all available resources to save lives, minimize injury to persons and minimize damage to property and the environment.
- Incident management activities will be initiated and conducted using the principles contained in NIMS.

2.9 Emergency Operations Center

The EOC is a critical link in the emergency response chain, enabling incident commanders to focus on the needs of the incident, serving as an information conduit between incident command and the Command Policy Group (CPG), promoting problem solving at the lowest practical level.

The EOC is the central location from which Chatham County provides interagency coordination and executive decision making in support of incident response and recovery operations. The EOC does not command or control on-scene jurisdictional response efforts but does carry out the coordination functions through:

- Developing and maintaining Situational Awareness and a Common Operating Picture for decision makers, Incident Commanders and other emergency responders.
- Managing requests, procurement, and utilization of needed resources (to include people).
- Documenting and Managing Incident Information.

2.9.1 EOC Locations

The Old County Courthouse EOC is designated as the County's Primary EOC, The Annex EOC is designated as the County's Alternate EOC, and the Mobile EOC is designated as the County's Mobile EOC and will be used by direction only and in some cases will supplement the Primary/Alternate EOC as an on-site resource.

2.9.2 EOC Activations

The EOC may be activated for various reasons based on support requirements of a jurisdiction or organization, the context of a threat, the anticipation of events, or in response to an incident. Circumstances that might trigger activation include but are not limited to:

- More than one jurisdiction becomes involved in an incident and/or the incident involves multiple agencies;
- The Incident Commander indicates an incident could expand rapidly, involve cascading effects, or require additional resources;
- A similar incident in the past required Center activation;
- The Emergency Management Agency Director or an elected or appointed official directs the EOC be activated;
- An incident either planned and/or unplanned is imminent. Examples: include but are not limited to: local scheduled special events, predictions/pending and/or forecasted hazardous/severe and tropical weather systems, anticipated river flooding, and other elevated threat levels;
- The anticipated need for support requires acquiring additional resources;
- The event(s) meet thresholds outlined in the County EOP occur; and/or
- Significant impacts to the population for any other reason(s) are anticipated.

2.9.3 Activation Levels

The activation level of the EOC grows in size, scope and complexity in concert with that of the incident. If the incident requires additional support and coordination, additional staff can be activated to involve more disciplines, mobilize resources, inform the public, address media inquiries, involve senior elected and appointed officials, and request outside assistance.

The EOC will function at one of three levels based upon the complexity of the incident and requirements of CEMA management. A normal steady state of the EOC is the default and considered ready for activation at a moment's notice. During normal operations (steady state), emergency management personnel maintain operational readiness by monitoring and assessing potential threats and hazards; conducting routine and ongoing coordination with other departments and agencies; developing and executing plans, training, and exercises; and maintaining facilities and equipment.

Level 3 Active Monitoring

- An event which could impact Chatham County is possible or assistance may be needed in coordinating County resources for an actual event.
- Center is staffed with a few personnel focused on situational awareness.

Level 2 Elevated Activation

- An event which could impact Chatham County is imminent and requires additional coordination of resources or an actual event is expected to escalate to a point where EOC coordination efforts are prudently assumed to be anticipated.
- Center is partially staffed; limited or partial liaison support (Based on the needs of the incident)

Level 1 Full-Scale Activation

- An event which is anticipated to impact or actually occurring in Chatham where local resources and capabilities will be taxed to the point where County-wide, Regional or State resources will be required.
- All General Staff positions activated; including applicable liaison positions.
- Operations being conducted on a 24 hour basis.

2.10 Levels of Emergencies and Declarations

There are two basic groups of emergencies, declared and non-declared.

2.10.1 Non-Declared County Emergencies / Disasters

- The Chairperson, Chatham County Commissioners, or designee may direct County departments and agencies to respond to emergencies or disasters as outlined in this plan without a formal declaration of an emergency when the expectation is that local resources will be sufficient and that no reimbursement of costs will be requested.

- For significant events in Chatham County, the EOC may be activated to monitor the situation, coordinate activities among departments and agencies, and to ensure that the County is positioned to rapidly respond in the event of an incident.

2.10.2 Emergency Declarations

There are three levels of emergency declarations that may apply to a disaster or emergency depending upon the scope and magnitude of the event:

- **County / Local Declaration:** A local emergency declaration automatically activates the Chatham County EOP, the EOC and provides for the expeditious mobilization of County resources to respond to a major incident or event.

- **State Declaration:** A declaration of an emergency by the Governor of Georgia that includes Chatham County provides the County access to the resources and assistance of the departments and agencies of the State, including the National Guard, in the event local resources are insufficient to meet the needs. These requests for assistance are coordinated by GEMA/HS after submittal by the County EOC.

- **Federal Declaration:** The Governor of Georgia may request a federal emergency or major disaster declaration. In the event that Chatham County is declared a federal disaster area, the resources of federal departments and agencies are available to provide resources and assistance to augment those of the County and State. The state will coordinate state and federal assistance to Chatham County and the EOC will coordinate assistance throughout the County.

2.11 Transition from Response to Recovery

The recovery process is best described as a sequence of interdependent and often concurrent activities progressively advancing a community toward a successful recovery. Decisions made and priorities set early in the recovery process will have a positive cascading effect on the nature and speed of the recovery progress. In fact, decisions made before a disaster can also positively impact recovery. Additional information can be found in the Disaster Recovery Plan (DRP).

Figure 1 on the next page indicates how preparedness, response, and recovery functions are related.

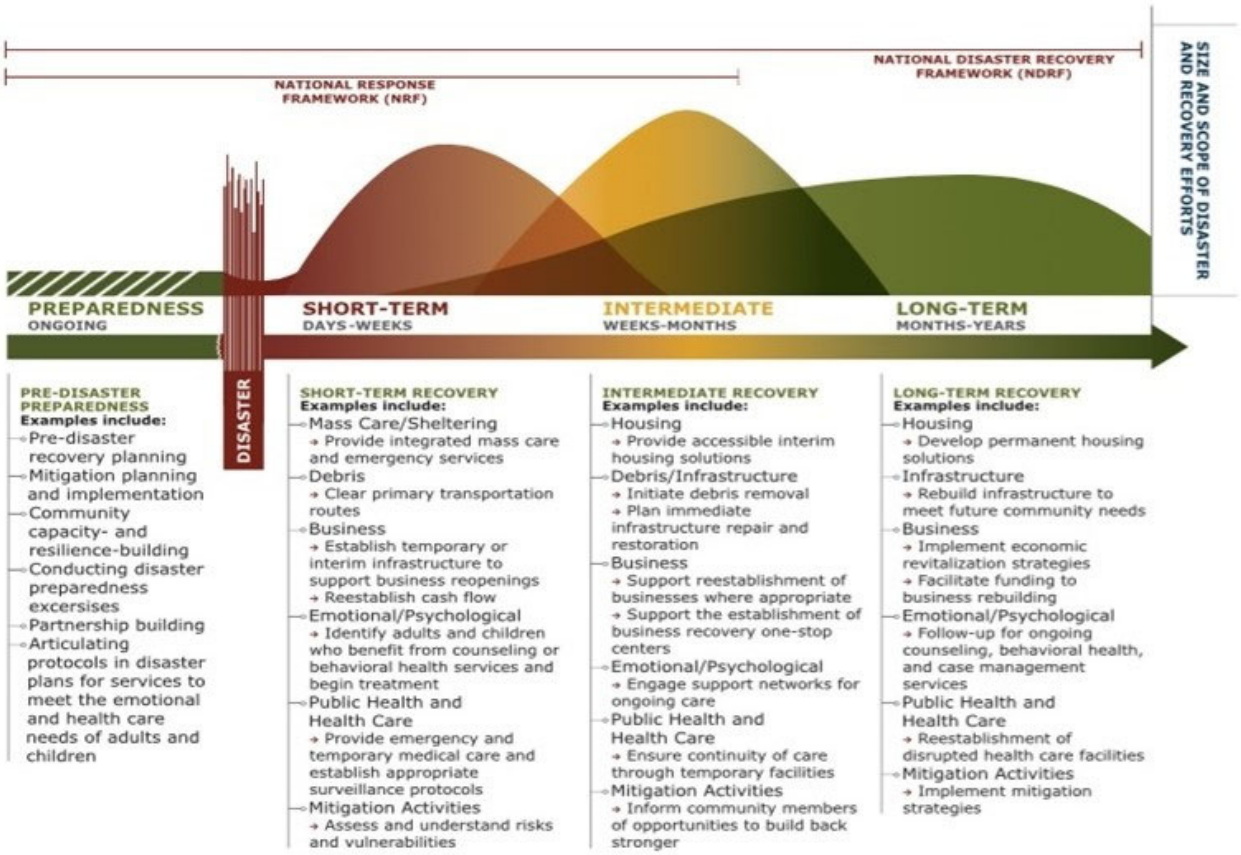


Figure 1

The transition from response to recovery is a gradual process, the pace and timing of which will depend on the circumstances. As response activities diminish, recovery activities will increase.

If the scope of the disaster dictates, a Recovery Committee will be established to manage recovery operations. The EOC Manager and Planning Section Chief will assess the need for a separate recovery organization based on the impacts of the incident, in collaboration with the other ESFs, and will make a recommendation to the CEMA Director to activate the Recovery Plan. The CEMA Director will then make a recommendation to the Command Policy Group who will activate the Recovery Plan.

2.11.1 Recovery Timeframes

Since emergency management is a cycle, there will be overlap between response and recovery operations. Additionally, recovery operations for multiple events may take place simultaneously.

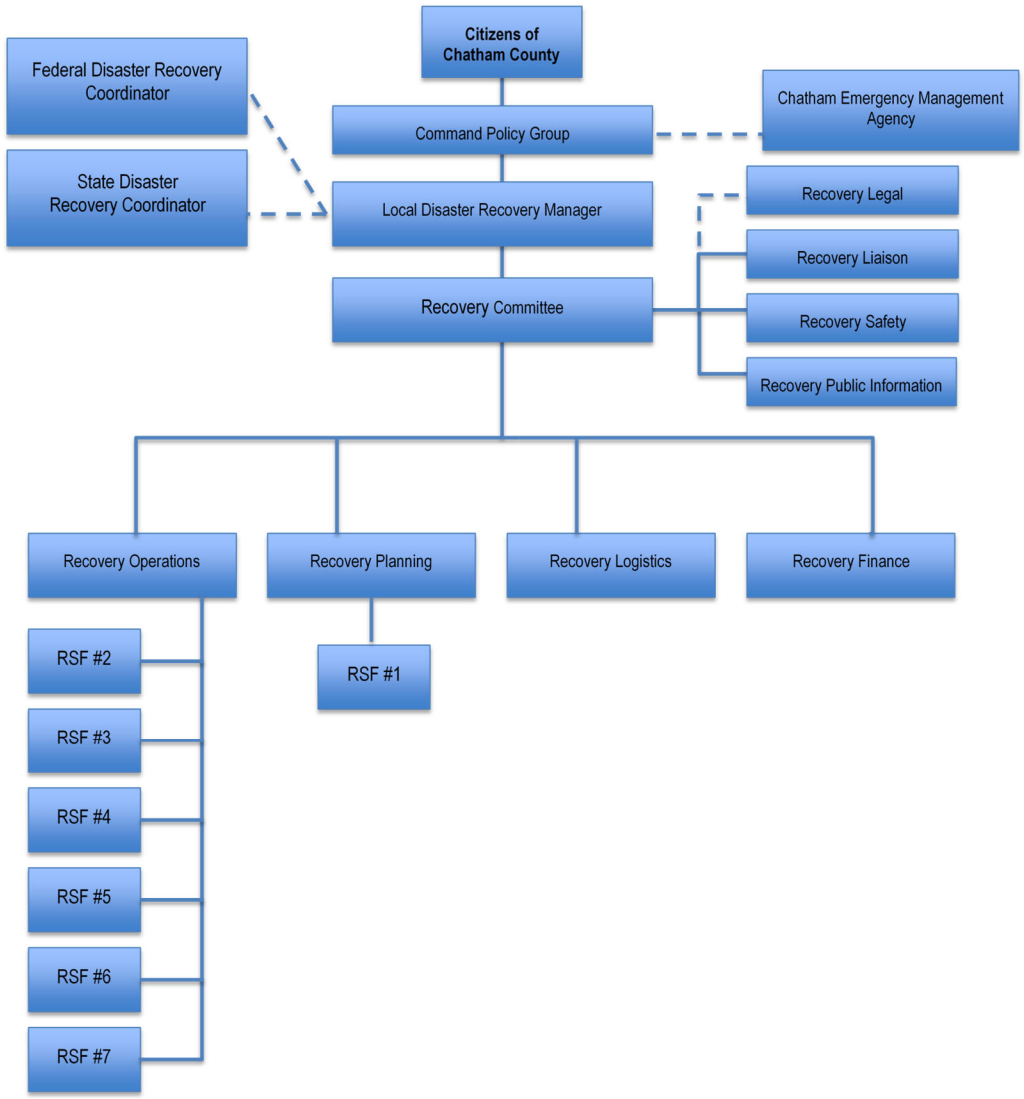
Recovery includes short-term, intermediate-term, and long-term phases.

- **Short-term recovery** concerns include managing and containing immediate impacts of an event on community systems and beginning to return these systems back to operating standards.

- **Intermediate-term recovery** involves returning individuals and families, critical infrastructure, and essential government or commercial services back to a functional state, although not necessarily to a pre-disaster state.

- **Long-term recovery** works to return to "near normal" conditions after a disaster or emergency, including restoring economic activity and rebuilding community facilities and housing. Long-term recovery can take several months or years.

2.11.2 Recovery Organization



3.0 Organization and Assignment of Responsibilities

3.1 General

County agencies and response organizations may have various roles and responsibilities throughout a major emergency or disaster's duration. Therefore, it is particularly important that the local command structure be established to support response and recovery efforts and maintain a significant amount of flexibility to expand and contract as the situation changes. Typical duties and roles may also vary depending on the incident's size and severity of impacts, as well as the availability of local resources. Thus, it is imperative to develop and maintain depth of qualified staff within the command structure and response community.

The response organization of any local government is the responsibility of the jurisdiction's Chief Elected Official (CEO). It consists of all agencies and resources of that local government and applicable volunteer and private resources. The CEO may use the jurisdiction's resources and employees as necessary and alter functions of departments and personnel as necessary in response to an emergency event. The CEO maintains direction and control of all activities within that jurisdiction.

Upon activation of a Local State of Emergency, the Chatham County Emergency Operations Plan becomes active as do prudent emergency protective ordinances. The CEMA Director will coordinate actions between local governments and agencies as necessary and the direct response actions as determined by the CPG. In situations where local resources to contend with an emergency do not exist or have been depleted, the CPG, in coordination with the CEMA Director, will request state assistance.

3.2 Command Policy Group (CPG)

During disaster situations, the CEMA Director may request the assembly of jurisdiction CEOs to discuss incident information. This unified assembly is known as the Command Policy Group (CPG). The CPG will coordinate with the CEMA Director on all emergency event information, direction and coordination. The CEMA Director has the responsibility to lead the response effort through guidance and direction of the CPG.

The Command Policy Group consists of:

- Chairperson of the Chatham County Commission
- County Manager
- Municipal Chief Elected Officials
- Municipal City Managers

- Superintendent of the Savannah-Chatham County Public Schools
- Chief Judge
- Chatham County Sheriff
- US Coast Guard Captain of the Port
- CEMA Director

3.3 Continuity of Operations / Government

Succession of County elected officials is outlined in the Continuity of Government (COG) Plan. Each jurisdiction is encourage to have an authorized COG plan that clearly states the orders of succession, limitations to authority and activation policy.

In the event of an incident within Chatham County, it may be necessary for county departments to activate their Continuity of Operations Plans (COOP). During COOP activations, agencies and departments should focus on limiting the interruption of services outlined in their mission essential functions.

3.4 Assignment of Responsibilities (General)

This section describes responsibilities or capabilities of in general terms other entities beyond direct jurisdictional control that are known to support, or are capable of supporting, disaster response or recovery within the jurisdiction.

3.4.1 Individuals and Households

Taking proper protective actions is necessary during emergencies. It is the responsibility of individuals and households to:

- Be aware of the different types of warning systems and how you may be notified of an emergency situation.
- Prepare to evacuate or shelter in place.
- Develop a family reunification plan.

3.4.2 Local Government

Local governments are central organizations in emergency management since local government has the primary responsibility for public safety, including emergency response following an emergency or disaster.

Local governments maintain control of all assets used in the response and recovery efforts, regardless of the source of those assets. Local governments must plan and prepare for this role with the support of the State and Federal governments.

3.4.3 State Government

The primary role of GEMA/HS is to support local emergency management activities through local EMA Directors. GEMA/HS provides routine assistance to local EMAs regarding grants, hazard mitigation projects, Citizen Corps Programs, Emergency Management Performance Grant funding, planning, training, exercise and technical guidance. Additionally, GEMA/HS assists local jurisdictions by coordinating with federal officials on behalf of local jurisdictional needs.

3.4.4 Federal Government

When a disaster strikes and is so severe that the local governments and the State governments together cannot provide the needed resources, the Federal government becomes the source for those resources. The Federal Emergency Management Agency (FEMA) is the Federal agency coordinating the activation and implementation of the Federal Response PlanStates work with FEMA to access Federal programs and support.

3.4.5 Non-Governmental and Volunteer Organizations

Volunteer agencies, such as the American Red Cross, local church/synagogue congregations, and assistive organizations, such as the Salvation Army, are available to give assistance with sheltering, feeding, and other issues, as necessary.

3.4.6 Private Sector

Private sector organizations within the jurisdiction may assist with a wide variety of tasks based on their capabilities.

3.5 Assignment of Responsibilities (Specific)

3.5.1 Chairperson of the Chatham County Commission

- Consult with the CEMA Director and declare a Local State of Emergency, as needed.
- Consult with the CEMA Director and order evacuations, as needed.
- Enact necessary Emergency Protective Ordinances.
- Serve as, or designate a spokesperson for the emergency.
- Coordinate with other elected officials at the local, state and federal level.

3.5.2 Municipal Elected Officials

- Enact necessary Emergency Protective Ordinances.
- Address policy level issues and participate in meetings/briefings as appropriate.

3.5.3 County and Municipal Managers

- Ensure government departments respond appropriately, activating COOP plans as needed.
- Ensure all response/recovery actions are in line with current policies and procedures.
- Ensure all departments and agencies document activities, time and finances accordingly for potential reimbursement.
- Remain aware of the financial situation.
- Direct and reallocate municipal assets and resources during an emergency.

3.5.4 Chatham County Emergency Management Agency Director

- Coordinate EOC staffing and functioning
- Ensure Interoperable Communications
- Operations of the shelter system in conjunction with the American Red Cross
- Facilitate emergency public information
- Coordinate alert and warning systems
- Coordinate assistance from other jurisdictions, the State and Federal governments
- Manage emergency control and use of resources
- Oversee rumor control
- Manage community damage assessments

3.5.5 Emergency Support Functions (ESF)

- The EOP applies a functional approach that groups the capabilities of municipal and county departments and some volunteer and non-government organizations into ESFs to provide the planning, support, resources, program implementation, and emergency services that are most likely to be needed during disaster or emergency incidents. The County response to actual or potential disasters or emergencies is typically provided through the full or partial activation of the ESF structure as necessary. The ESFs serve as the coordination mechanism to provide assistance to municipal governments or to County departments and agencies conducting missions of primary County responsibility.

- Each ESF is comprised of primary and support agencies. The EOP identifies primary agencies on the basis of authorities, resources, and capabilities. Support agencies are assigned based on resources and capabilities in a given functional area. The resources provided by the ESFs reflect categories identified in the NIMS. ESFs are expected to support one another in carrying out their respective roles and responsibilities. Additional discussion on roles and responsibilities of ESF primary agencies, and support agencies can be found in the introduction to the ESF Annexes.

- Note that not all disaster or emergency incidents result in the activation of all ESFs. It is possible that an incident can be adequately addressed by agencies through activation of certain EOP elements without the activation of ESFs. Similarly, operational security considerations may dictate that activation of EOP elements be kept to a minimum, particularly in the context of certain terrorism prevention activities.

3.5.6 Emergency Support Functions – Scope and Agency Assignments

The ESFs incorporated into the EOP and their respective concepts of operations are summarized below and explained in detail in the ESF Annexes to the EOP. Please note, this is not an exhaustive list of responsibilities.

ESF	Scope	Coordinating Entity
1 – Transportation	• Situational awareness for highway, aviation and marine systems • Damage assessment of critical transportation systems in disaster • Evacuation and re-entry coordination	Chatham County Department of Engineering
2 – Communications	• Coordination with telecom and IT industries • Restoration/repair of telecom infrastructure • Support of deployable communications	Chatham County Information & Communication Systems
3 – Public Works / Engineering	• Debris clearance, removal and disposal coordination	Chatham County Public Works
4 – Firefighting	• Support firefighting operations	Chatham Emergency Services
5 – Planning / Emergency Management	• Maintain Situation Awareness and develop Common Operating Picture • Develop Center Action Plans • Facilitate reports to local, State and Federal agencies	CEMA
6 – Mass Care & Sheltering	• MASS CARE: Sheltering, feeding, bulk distribution • HUMAN SERVICES: Implementation of disaster assistance programs for non-housing losses • HOUSING: Short/intermediate-term housing	Chatham County DFCS
7 – Logistics	• Resource support (transportation, facilities, supplies, equipment, personnel) • Coordination of mutual aid agreements • Procurement	CEMA
8 – Health & Medical	• Healthcare and medical response support • Environmental Health & Safety	Chatham County Health Department
9 – Search & Rescue	• Search & Rescue operations	Pooler Fire Department
10 – Hazardous Materials	• Hazardous Materials response	Savannah Fire Department
11- Agriculture / Food & Water	• Animal & plant disease response • Identify, secure & distribute food	Chatham County Health Department / CEMA
12 – Energy / Utilities	• Energy infrastructure and resource assessment, repair, and restoration • Utility coordination	Chatham County Public Works
13 – Law Enforcement	• Public safety/security support • Support to access, traffic and crowd control • Facility and resource security	Chatham County Police Department
14 – Private Sector	• Private sector support and coordination	CEMA / SEDA
15 – External Affairs	• Emergency public information and protective action guidance • Media and community relations	Chatham County Public Information Office
16 – Community Alerting	• Provide warnings, alerts and notifications to stakeholders	CEMA
17 – Damage Assessment	• Infrastructure assessment, protection and emergency repair (PA DA) • Private property assessment (IA DA)	CEMA / OSRM / BSRS
18 – Animal Services	• Animal response	Chatham County Animal Services
19 – Cultural and Historical Properties	• Natural & cultural resources and historic property protection and restoration	Savannah Heritage Emergency Response

4.0 Direction, Control, and Coordination

The emergency response is coordinated utilizing NIMS/ICS, which provides a flexible, adaptable and expandable response organization to address all-hazards of varying magnitude and complexity. An EOC is activated to support field operations and ensure continuity of government when an incident threatens government services, requires additional resources beyond the capacity of the responding agency, or when resources exceed that which is available from within the jurisdiction as a whole. Communications between the field response and the EOC are established when the EOC is activated in support of field operations.

During multiple-incident situations within the County, an area command may be established to provide for the ICs at separate locations. Unified Command is an application of ICS and may be established at the field response level when more than one agency has jurisdictional responsibilities. Agencies work together through the designated members of the Unified Command to establish their designated ICs at a single ICP. Under Unified Command, entities develop a common set of objectives and strategies which provides the basis for a single Incident Action Plan.

4.1 Authority to Initiate Action

The Chairperson of the Chatham County Commission is responsible for declaring a local state of emergency, based on the recommendation from the CPG and the CEMA Director. Declaration of a local state of emergency automatically implements the EOP.

4.1.1 Command Policy Group (CPG)

In a large disaster that involves multiple agencies and complex issues, the CEMA Director may convene a CPG meeting to deliberate and advise on policy issues that arise during the event, address legal issues and resolve conflicting policies, procedures and authorities among involved jurisdictions and agencies. The CPG does not employ command authority or make tactical decisions regarding field level operations.

4.1.2 Activation of the EOP

The authority to activate the EOP is not limited to any one County leadership position, but may vary depending on an incident and authority over the incident. Therefore, the decision to implement the EOP may be made by any of the indicated positions, or their authorized designee:

- County Manager
- Assistant County Manager
- CEMA Director

Implementation of the EOP is scalable and is dependent upon variable disaster conditions, phase of operations and resource coordination needs. The level of activation of County resource through ESFs and the staffing levels of the EOC are also flexible.

Additional EOP implementation circumstances include:

- When the Governor has declared a State of Emergency affecting Chatham County or a local jurisdiction.
- A Presidential declaration of a National Emergency.

4.2 Coordination with Other Levels of Government

Chatham County has identified jurisdictions, private non-profit (PNP) organizations, and volunteer agencies within the geographical boundaries of the County that may have an emergency response role during an emergency or disaster. Their emergency roles have been identified and provisions for coordination with each of them made. CEMA will also work with GEMA/HS to ensure they are integrated into coordination of emergency operations as appropriate.

4.3 Coordination with Non-Profit and Volunteer Organizations

CEMA recognizes the valuable assistance and resources provided by NGO organizations and the importance of organizations that perform voluntary services in the community. As a result, CEMA continues to cultivate relationships with PNP organizations and has established an extensive trained volunteer base to support emergency response operations within Chatham County. The EOC will generally be a focal point for coordination of response activities with many PNPs and volunteer groups.

During an emergency, the EOC may establish communication with PNP agencies and volunteer groups through an agency representative, volunteer coordinator, or other authorized personnel. Coordination, activation, and deployment of these members may be incident driven and will follow the appropriate organization response guidelines that have been established for the specific PNP organization or volunteer group.

4.4 Assistance

If the jurisdiction's own resources are insufficient or inappropriate to respond to the emergency situation, a request may be made for assistance from other jurisdictions, the State, or Federal government. Resource Requests should be submitted via WebEOC to ensure proper resource tracking and demobilization procedures.

5.0 Information Collection and Dissemination

A primary objective of the EOC is the timely gathering of accurate, accessible, and consistent information during an emergency and sharing vetted intelligence to ensure coordinated timely emergency response and continuity of government. WebEOC status boards and other technologies for tracking emergency activities will be utilized. All EOC sections should maintain and display current status information so that other sections can quickly comprehend what actions have been taken, what resources are available, and to track damage status across the county. Situation reports develop a common operating picture and will be used to inform the operational objectives, priorities and strategies.

To ensure effective intelligence flow, emergency response agencies at all levels must establish communications systems and protocols to organize, integrate, and coordinate intelligence among the responding agencies. Disaster information managed by the Chatham County EOC is coordinated through agency representatives located in the EOC. These representatives collect information from and disseminate information to counterparts in the field.

The flow of situation reports among the levels of government should occur as follows:

- Field level reports disseminated to the EOC
- The EOC provides a county situation report to GEMA/HS based on field reports, EOC activities and intelligence

5.1 WebEOC

Chatham County uses WebEOC as its primary tool for internal communications and situational awareness during disasters. WebEOC is an online information management and communication tool that allows authorized users to view and update current incident information and request assistance.

- The Planning Section of the EOC posts all reports to WebEOC, as well as maintain critical status boards.
- All resource requests should be submitted in WebEOC to allow for thorough equipment tracking. Resources requests are submitted to the EOC and then assigned to the appropriate ESF, or sent to GEMA/HS if the request cannot be fulfilled locally.

5.2 Essential Elements of Information (EEI)

Persons staffing the EOC should utilize position specific job aids to encourage a proactive response effort. EEI's are listed in each job aid to assist with developing a common operating picture and identify possible future issues. EEI information can also be used to populate information in the Situational Awareness Tool (WebEOC Board) to develop a common operating picture.

6.0 Communications

Per NIMS, public information is coordinated and integrated across jurisdictions and functional agencies; among Federal, State and local agencies; and with private-sector entities and nongovernmental organizations. In order to effectively ensure timely and accurate public information and alert and warning messages are disseminated systems, structures, plans, policies, and equipment must be developed and identified to accomplish these tasks.

6.1 Joint Information System (JIS)

The Joint Information System (JIS) provides the mechanism to organize, integrate, and coordinate information to ensure timely, accurate, accessible, and consistent messaging across multiple jurisdictions and/or disciplines with nongovernmental organizations and the private sector. It includes the plans, protocols, procedures, and structures used to provide public information.

The JIS structure is used for ensuring that:

- Public Information Officer (PIO) functions are coordinated and integrated.
- A structure and system for developing and delivering coordinated interagency messages is provided.
- Public information plans and strategies on behalf of the incident management leadership can be developed, recommended, and executed.
- Leadership is effectively advised on public affairs issues that could affect a response effort, rumors and inaccurate information that could undermine public confidence are controlled and managed.

Local PIOs and established Joint Information Centers (JICs) are critical supporting elements of the JIS. A robust and competent JIS is integral to an effective and comprehensive incident management capability.

6.2 Joint Information Center (JIC)

The Joint Information Center is:

- A central location that facilitates operation of the Joint Information System.

- A location where personnel with public information responsibilities perform critical emergency information functions, crisis communications, and public affairs functions.

6.3 Public Alerting and Notifications

During an emergency, ESF-15 is responsible for the dissemination of information to the public. PIOs disseminate emergency instructions and critical information to affected audiences—including governments, media, and the public—to provide messages that are accessible to all sectors of the community. Several county departments, as well as, PIOs from municipalities, PNP organizations, and private companies share in the responsibility for disseminating complete, coordinated, and correct information to the public.

6.4 EOC Communication Systems

The Chatham County EOC is equipped with multiple redundant communication methods allowing the sharing of situational awareness, resource status, raw intelligence and data, and alert and warning. The communication capabilities are routinely reviewed and updated as technology advances. Current communication resources in the EOC include, but are not limited to:

- WebEOC
- Land-line based phones
- Cell phones
- Satellite phones
- Radio systems
- Internet enabled computers
- Emergency Alert System
- Fax machines

7.0 Administration, Finance, and Logistics

7.1 Documentation

Documentation is an administrative process used by a jurisdiction to document the response to and recovery from a disaster.

- Individual agencies are responsible for compiling and maintaining their own documentation through their own internal SOP's.

- Information may be compiled in WebEOC during events that require multiple agencies over several operational periods.

7.2 Finance

Each individual department/agency shall document the costs incurred during response and recovery operations (e.g., personnel overtime, equipment used/expended, contracts initiated) in accordance to their own internal SOP's.

7.3 Logistics

When local resources are exhausted and additional resources are required, resource requests will follow an established process for ordering, tracking, mobilizing, and demobilizing (WebEOC if available). Resource requests originate from municipalities, sent to the EOC, then to GEMA/HS if the resource cannot be acquired via the county EOC.

Maintenance of resources is important throughout all aspects of resource management. Maintenance prior to deployment ensures their availability and capability. Maintenance during the deployment phase ensures continued capabilities (e.g., ensuring adequate fuel supplies during use). Post-operational inspection and maintenance ensures future availability.

8.0 Plan Development and Maintenance

CEMA is the executive agent for EOP management and maintenance. The EOP will be updated periodically as required to incorporate new directives and changes based on lessons learned from exercises and actual events. This section establishes procedures for interim changes and full updates of the EOP.

The EOP is developed with input from municipalities, local, state and non-governmental agencies.

8.1 Review and Updates

Changes include additions of new or supplementary material and deletions. No proposed change should contradict or override authorities or other plans contained in statute, order, or regulation.

8.1.1 Coordination and Approval

Any department or agency with assigned responsibilities under the EOP may propose a change to the plan. Chatham County Emergency Management Agency is responsible for coordinating all proposed modifications to the EOP with primary and support agencies and other stakeholders, as required. Chatham County Emergency Management Agency will coordinate review and approval for proposed modifications as required.

8.1.2 Notice of Change

After coordination has been accomplished, including receipt of the necessary signed approval supporting the final change language, Chatham County Emergency Management Agency will issue an official Notice of Change. The notice will specify the date, number, subject, purpose, background, and action required, and provide the change language on one or more numbered and dated insert pages that will replace the modified pages in the EOP in addition to manually logged record of changes on the form at the beginning of this plan titled: Record of Revisions. Once published, the modifications will be considered part of the EOP for operational purposes pending a formal revision and redistribution of the entire document.

8.1.3 Distribution

The primary distribution method of the Basic Plan and Annexes will be electronic. The EOP, ESF Annexes and other Support and Incident Annexes or guides deemed by the CEMA Director to be free of sensitive or confidential information may be publicly available online.

8.1.4 Redistribution of the EOP

Working toward continuous improvement, Chatham County Emergency Management Agency is responsible for an annual review and updates of the EOP and a complete revision every five years, or more frequently if the County Commission or the Georgia Emergency Management Agency deems necessary. The review and update will consider lessons learned and best practices identified during exercises and responses to actual events, and incorporate new information technologies. Chatham County Emergency Management Agency will distribute revised EOP documents for the purpose of interagency review and concurrence.

9.0 Authorities and References

9.1 Legal Authorities

9.1.1 Federal

- The Robert T. Stafford Disaster Relief and Emergency Assistance Act (P.L.93-288, as amended)
- The Disaster Mitigation Act of 2000 (P.L. 106-390)
- The Sandy Recovery Improvement Act of 2013 (P.L. 113-2) (SRIA)
- The Post Katrina Emergency Management Reform Act of 2006 (P.L.109-295)
- Presidential Decision Directive - 63, United States Policy on Protecting America's Critical Infrastructure
- Homeland Security Presidential Directive – 5 – National Incident Management System (NIMS).
- Homeland Security Presidential Directive – 8 – National Preparedness
- Presidential Policy Directive/PPD-8: National Preparedness

9.1.2 State

- Georgia Emergency Management Act of 1981. As Amended

9.1.3 Local

- The Code of Chatham County.Chapter 4, Administration, Article III, Emergency Management

9.2 References

9.2.1 Federal

- Comprehensive Preparedness Guide (CPG) 101, Version 2.0. Developing and Maintaining Emergency Operations Plans
- Homeland Security Exercise and Evaluation Program (HSEEP)
- National Prevention Framework

- National Protection Framework
- National Recovery Framework
- National Response Framework
- Framework for Improving Critical Infrastructure Cybersecurity, National Institute of Standards and Technology (NIST)
- National Mitigation Framework
- National Preparedness Goal (NPG)

9.2.2 State

- Georgia Disaster Recovery and Redevelopment Plan (GDRRP)
- Georgia Emergency Operations Plan (GEOP)

9.2.3 Local

- Chatham County Emergency Operations Plan
- Chatham County Hazard Mitigation Plan
- Chatham County Disaster Recovery Plan
- Chatham Emergency Management Agency Strategic Plan
- Chatham County Continuity of Operations Plan
- Chatham County Continuity of Government Plan

TAB A: ACRONYMS

ACRONYMS

BSRS	Building Safety & Regulatory Services
CEMA	Chatham Emergency Management Agency
CEO	Chief Elected Official
COG	Continuity of Government
COOP	Continuity of Operations
CPG	Command Policy Group
DFCS	Department of Family and Children's Services
DRP	Disaster Recovery Plan
EEI	Essential Elements of Information
EOC	Emergency Operations Center
EOP	Emergency Operations Plan
ESF	Emergency Support Function
FEMA	Federal Emergency Management Agency
GEMA/HS	Georgia Emergency Management Agency/Homeland Security
IA	Individual Assistance
ICS	Incident Command System
JIC	Joint Information Center
JIS	Joint Information Systems
MPC	Metropolitan Planning Commission
NGO	Non-governmental Organization
NIMS	National Incident Management System
NRF	National Response Framework
OSRM	Occupational Safety & Risk Management
PA	Public Assistance
PIO	Public Information Officer
PNP	Private Non-Profit
RSF	Recovery Support Function
SEDA	Savannah Economic Development Authority
SOP	Standard Operating Procedures

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TAB B: PLANNING OVERVIEW

This tab describes all current plans as of resolution of the EOP. Plans may be reviewed, updated, developed or consolidated as needed. The EOP serves as a Base Plan with ESF Annexes, SOG's, Incident Annexes and Support Annexes underneath the overall umbrella of the EOP.

The Disaster Recovery Plan is a separate "umbrella plan" that provides the overarching framework for recovery, with RSF Annexes and other SOG's or Annexes as required.

CEMA Plan Library—Overview

See CEMA Plan Library Index for descriptions of each plan

Chatham Emergency Operations Plan (EOP)

Emergency Support Function Annexes

ESF-1: Transportation
- SOG 1-1 EAA Operations
- SOG 1-2 Returnee Reception Center

ESF-2: Communications
- SOG 2-1 Interoperable Communications

ESF-3: Public Works
- App 3-1 Debris Management

ESF-4: Firefighting

ESF-5: Planning / Emergency Management

ESF-6: Mass Care, Housing, and Human Services
- SOG 6-1 General Population Sheltering
- SOG 6-2 Critical Workforce Sheltering
- SOG 6-3 Mass Feeding Coordination
- SOG 6-4 Comfort Station Management

ESF-7: Resource Support
- SOG 7-1 Base/Camp Coordination
- SOG 7-3 Logistics Support Area
- SOG 7-4 Points of Distributions
- SOG 7-6 Emergency Fuel Management
- SOG 7-7 Resource Management

ESF-8: Public Health & Medical Support
- SOG 8-1 Hurricane Registry Evacuation
- SOG 8-2 Disaster Health & Medical Services

Emergency Support Functions (con't)

ESF-9: Search and Rescue

ESF-10: Hazardous Materials
- App 10-1 Hazmat Emergency Response

ESF-11: Agriculture / Food & Water

ESF-12: Energy

ESF-13: Public Safety and Security Services

ESF-14: Private Sector
- SOG 14-1 Private Sector Coordination

ESF-15: External Affairs
- SOG 15-1 Joint Information System
- SOG 15-2 Joint Information Center
- SOG 15-3 Disaster Awareness Prep

ESF-16: Community Alerting
- SOG 16-1 Emergency Service Alerts

ESF-17: Damage Assessment
- SOG 17-1 Damage Assessment (PA)
- SOG 17-2 Damage Assessment (IA)

ESF-18: Animal Services

ESF-19: Cultural and Historical Coordination

Incident Annexes

IA-A Hurricane Incident Management

IA-C Incident Assistance Center

IA-D Cyber Incident Response

IA-E Active Shooter Hostile Event Response

IA-I Flood Response Plan

Support Annexes

SA-E Training and Exercise

SA-F EOC Staff Manual

Partner Plans Supporting the EOP

Coastal Health District Pandemic Plan

Coastal Health District SNS Plan

County Engineering Flood Mitigation Plan

GEMA Area Threat Hazard Identification Plan

NOTE 1: Incident Annexes E-G, Incident Annex K, and Support Annexes A-D have been archived. Content from these Annexes have either been incorporated into other documents or are no longer relevant due to operational changes or improvements.

NOTE 2: There are a few community plans supporting the EOP and are maintained by another entity . In these situations, CEMA is a contributor and include them as part of the EOP by reference.

January 2025

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Emergency Support Function – 1
Transportation



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1	12/27/24	Updated for 2025	12/27/2024	Dr. Halcomb

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ESF – 1 Transportation

ESF COORDINATOR:
Chatham County Department of Engineering

SUPPORT AGENCIES:
Chatham Area Transit
Chatham County Fleet Operations
Chatham County Mosquito Control
Chatham Emergency Management Agency
CSX
Georgia Department of Transportation
Georgia Port Authority
Norfolk Southern
Savannah-Chatham County Public School System
Savannah-Hilton Head International Airport
United States Coast Guard

INTRODUCTION

The emergency support function of transportation services involves direction and coordination, operations, and follow-through during an emergency or disaster.

Purpose

ESF-1 Transportation Annex supports the EOP and complies with standards set forth in the National Response Framework. This document provides guidance to prepare for, respond to, recover from, and mitigate the effects of a disaster or emergency on Chatham County's transportation infrastructure and networks. This however is not a tactical response document. ESF-1 Transportation is designed to ensure seamless integration of key transportation resources and information for preparedness, response, recovery, and mitigation activities to address an emergency or disaster.

Scope

ESF-1 acts to meet the transportation and essential elements of information needs of operations to include ground-based, maritime, aviation and rail-based transportation infrastructure support in emergency or a disaster.

CONCEPT OF OPERATIONS

General

During an emergency or disaster, ESF-1 may be activated to support operations and assist with the development of a common operating picture. The scope, scale and magnitude of the threat/incident will dictate which support agencies will be requested for the support of ESF-1 Transportation in the EOC.

Preparedness

a. Develop and maintain resource lists to support ESF-1 operations utilizing both public and private sector entities.

b. Establish and maintain contact with the state and adjacent county transportation officials.

c. Plan for supporting all types of evacuations to include suspension of construction and maintenance, lane reversal on evacuation routes, and state traffic management plans and operations.

d. Participate in exercises and training.

e. Estimate logistical requirements (personnel, supplies, equipment, facilities, and communications) during the planning process and through exercises.

f. Ensure all ESF-1 personnel integrate NIMS principles.

Response

a. Identify transportation needs required to respond to the emergency.

b. Coordinate use of transportation assets.

c. Identify, obtain, prioritize and allocate available transportation resources.

d. Report the locations of damage to transportation infrastructure, degree of damage, and other available information to the EOC.

e. Assist local governments in determining the most viable, available transportation networks to, from, and within the disaster area.

f. Coordinate emergency information for public release through ESF-15.

g. Document matters that may be needed for inclusion in briefings, situation reports and action plans.

h. Plan for transportation support of staging areas and distribution points.

Recovery

a. Continue to render transportation support when and where required as long as emergency conditions exist.

b. Coordinate the repair and restoration of transportation infrastructure with the assistance of ESF-3.

c. Ensure that ESF-1 team members and/or their agencies maintain appropriate records of costs incurred during the incident.

Mitigation

a. Support and plan for mitigation measures.

Organization

The County EOC will be activated to coordinate a multijurisdictional level response.

Representatives from the applicable ESF-1 Agencies may be assigned to the EOC or alternate location, as best suited to meet incident needs and coordinate operations.

ESF Role Aligned to Core Capabilities

The following table lists the response capability that ESF-1 most directly supports, along with the related ESF-1 actions supporting the capability.

Core Capability	ESF-1 Transportation
Critical Transportation	• Provide transportation (including infrastructure access and accessible transportation services) for response priority objectives, including the evacuation of people and animals, and the delivery of vital response personnel, equipment, and services into the affected areas. This includes, among other things: ➢ Evacuation transportation assets ➢ Evacuation routing ➢ Re-entry coordination
Infrastructure Systems	• Stabilize critical infrastructure functions, minimize health and safety threats, and efficiently restore and revitalize systems and services to support a viable, resilient community. This includes, among other things: ➢ Transportation network assessment ➢ Communication of viable routes post-event

Responsibilities

Coordinating Agency	Actions
Chatham County Department of Engineering	• Monitor the transportation infrastructure and act as the principle source of information for threats or incidents to the infrastructure • Coordinate the movement and flow of maritime and ground traffic into and out of impacted areas for effective transport of relief supplies, personnel, and equipment • Coordinate closures as needed • Evacuation and re-entry coordination • Conduct impact assessments within impacted areas • Provide EOC Staffing for the following EOC positions as needed: ➢ Evacuation & Re-Entry Branch Director ➢ Evacuation & Re-Entry Tracking ➢ Infrastructure Branch Director ➢ ESF-01 Transportation • Develop plans and procedures to support emergency or disaster operations • Coordinate ESF meetings to ensure constant state of readiness

Supporting Agency	Actions
All Supporting Agencies	• Immediately following an emergency or disaster, assess the overall status of the transportation system within the area of responsibility, determine potential needs & resources, report status to ESF-1 Coordinator • Attend ESF meetings to ensure planning and coordination functions are carried out to support this ESF • Provide additional resources as available to support ESF-1 response and recovery efforts • Develop appropriate plans, policies, procedures, mutual aid agreements, and other supporting documentation as needed to facilitate execution of responsibilities to this ESF • Participate in drills, exercises, and other preparedness events to measure the Agency's readiness to support this ESF • Prepare to support the Emergency Operations Center as needed • Document disaster related activities related to this ESF • Prepare to collect and maintain records of expenditures and document resource utilized during response and recovery operations

Supporting Agency	Actions
Chatham Area Transit	• Support the emergency transportation of people • Provide EOC Staffing for the following EOC position as needed: ➢ Chatham Area Transit
Chatham County Fleet Operations	• Support the emergency transportation of people and equipment • Support emergency fueling operations • Support emergency vehicle/equipment repair • Provide EOC Staffing for the following EOC position as needed: ➢ Transportation Ground Support
Chatham County Mosquito Control	• Support infrastructure assessments, provide recommendations for transportation routes • Coordinate all local requests for air support • Provide staffing for Air Support Operations Center when activated
Chatham Emergency Management Agency	• Provide ESF-1 Coordinator with guidance and support required to accomplish assigned tasks
Georgia Department of Transportation	• Provide status of GDOT roads and bridges • Coordinate closures as needed • Initiate contraflow operations as requested during an evacuation due to a tropical system threat • Provide EOC Staffing for the following EOC position as needed: ➢ Liaison Officer
Georgia Port Authority	• Provide EOC Staffing for the following EOC position as needed: ➢ Liaison Officer
Savannah-Chatham County Public School System	• Support the emergency transportation of people • Provide EOC Staffing for the following EOC positions as needed: ➢ SCCPSS Transportation

Emergency Support Function – 2
Communications



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Change #	Date	Part Affected	Date Posted	Who Posted
1	01/09/25	Updated for 2025	01/09/25	Smith

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- Responsibilities 9

ESF – 2 Communications

ESF COORDINATOR:
Chatham County Information & Communications Services (Voice, Data, Cybersecurity)
Chatham Emergency Management Agency (Radio)

SUPPORT AGENCIES:
AT&T
Amateur Radio (ARES)
Chatham County E-911
Chatham County Sheriff's Office
Chatham Emergency Management Agency
Chatham Emergency Services Dispatch
City of Savannah IT – Radio
City of Tybee Island Dispatch
Mobile Communications of America
Motorola, Inc.
Metropolitan Planning Commission
Southern Linc Wireless
Verizon

INTRODUCTION

The emergency support function of communications services involves direction and coordination, operations, and follow-through during an emergency or disaster.

Purpose

ESF-2 Communications organizes, establishes, and maintains the communications capabilities among appropriate agencies/entities that are necessary to meet the County's operational requirements in preparing for, responding to, and recovering from emergencies and disasters. It emphasizes technical considerations of communication functions. Collection, control, and dissemination of emergency public information are covered by ESF 15, External Affairs.

Scope

ESF-2 acts to meet the communication and essential elements of information needs of operations to include telecommunication, radio and cyber infrastructure support in emergency or a disaster.

Chatham County's Information and Communications Department coordinates the activities and response operations involving voice, data and cybersecurity elements.

Chatham Emergency Management Agency coordinates the activities and response operations involving radio communications.

CONCEPT OF OPERATIONS

General

During an emergency or disaster, ESF-2 may be activated to support operations and assist with the development of a common operating picture and maintain or rapidly restore communications. The scope, scale and magnitude of the threat/incident will dictate which support agencies will be requested for the support of ESF-2 Communications in the EOC.

This ESF plans, coordinates and assists with the provision of communications support to the county disaster response elements, to include integration of communications with support elements originating outside of area.

Preparedness

a. Develop and maintain resource lists to support ESF-2 operations utilizing both public and private sector entities. (ICS and CEMA)

b. Coordinate the acquisition and deployment of communications equipment and resources to establish communication capabilities. (ICS and CEMA)

c. Develop and coordinate frequency management plans, including talk groups and trunked radio. (CEMA)

d. Develop, test and maintain a long-distance communications strategy for implementation during disasters. (ICS and CEMA)

e. Assess pre-event needs and develop plans to pre-stage assets for rapid deployment into disaster areas. (ICS and CEMA)

f. Develop plans to prioritize the deployment of services based on available resources and critical needs. (ICS and CEMA)

g. Participate in exercises and training. (ICS and CEMA)

h. Estimate logistical requirements (personnel, supplies, equipment, facilities, and communications) during the planning process and through exercises. (ICS and CEMA)

i. Ensure all ESF-2 personnel integrate NIMS principles. (ICS and CEMA)

Response

a. Conduct communications needs assessments (to include determining status of all communications systems), prioritize requirements, and make recommendations to deploy equipment and personnel to the affected area, as required. (ICS and CEMA)

b. Report the locations of damage and impacts on communication infrastructure, degree of damage, and other available information to the EOC. (ICS and CEMA)

c. Identify actual actions of commercial telecommunications companies and radio supporting organizations to restore services. (ICS and CEMA)

d. Implement frequency management plans in the disaster area. (CEMA)

e. Provide capability for responsible officials to receive emergency information and communicate decisions. (ICS and CEMA)

f. Prioritize the deployment of services based on available resources and critical needs. (ICS and CEMA)

g. Establish and maintain communications with GEMA SOC. (ICS and CEMA)

h. Maintain or restore contact with other EOCs as needed. (ICS and CEMA)

i. Document matters that may be needed for inclusion in briefings, situation reports and action plans. (ICS and CEMA)

Recovery

a. Arrange for alternate communication systems to replace systems that are inoperative due to damage from disasters. (ICS and CEMA)

b. Coordinate the repair and restoration of communications infrastructure. (ICS and CEMA)

c. Ensure that ESF-2 team members and/or their agencies maintain appropriate records of costs incurred during the incident. (ICS and CEMA)

Mitigation

a. Support and plan for mitigation measures. (ICS and CEMA)

Organization

The County EOC will be activated to coordinate a multijurisdictional level response.

Representatives from the applicable ESF-2 Agencies may be assigned to the EOC or alternate location, as best suited to meet incident needs and coordinate operations.

ESF Role Aligned to Core Capabilities

The following table lists the response capability that ESF-2 most directly supports, along with the related ESF-2 actions supporting the capability.

Core Capability	ESF-2 Communication
Operational Communications	• Ensure the capacity for timely communications in support of security, situational awareness, and operations by any and all means available, among and between affected communities in the impact area and all response forces. This includes, but is not limited to: ➢ Frequency management (CEMA) ➢ Communication with EOCs (ICS and CEMA) ➢ Secured channels (CEMA) ➢ Support deployable resources (ICS and CEMA)
Cybersecurity	• Protect (and if needed, restore) electronic communications systems, information, and services from damage, unauthorized use, and exploitation. This includes but is not limited to: ➢ Government networks (ICS) ➢ WebEOC (ICS)

Responsibilities

Coordinating Agency	Actions
Chatham County Information and Communication Services	• Oversee the coordination management of voice, data and cybersecurity resources, facilities, equipment and initiate alternate and backup systems as needed • Conduct impact assessments within impacted areas • Coordinate communications with response operations • Develop plans and procedures to support emergency or disaster operations • Coordinate ESF meetings to ensure constant state of readiness. • Provide support staffing to the EOC for the following position: ➢ ESF 2 – IT and Communications

Chatham Emergency Management Agency	• Oversee the coordination management of radio resources, facilities, equipment and initiate alternate and backup systems as needed • Conduct impact assessments within impacted areas • Coordinate communications with response operations • Develop plans and procedures to support emergency or disaster operations

Supporting Agency	Actions
All Supporting Agencies	• Immediately following an emergency or disaster, assess the overall status of the communication system within the area of responsibility, determine potential needs & resources, report status to ESF-2 Coordinator • Attend ESF meetings to ensure planning and coordination functions are carried out to support this ESF • Provide additional resources as available to support ESF-2 response and recovery efforts
All Supporting Agencies (Continued)	• Develop maintenance and protection arrangements for communications equipment • Develop appropriate plans, policies, procedures, mutual aid agreements, and other supporting documentation as needed to facilitate execution of responsibilities to this ESF • Participate in drills, exercises, and other preparedness events to measure the Agency's readiness to support this ESF • Prepare to support the Emergency Operations Center as needed • Document disaster related activities related to this ESF • Prepare to collect and maintain records of expenditures and document resource utilized during response and recovery operations.
AT&T	• Provide technical assistance for the restoration of voice and data communications during an emergency or disaster event. • Provide support staffing to the EOC for the following position: ➢ AT&T (Partner Liaison)
Amateur Radio (ARES)	• Provide for public communication services during an emergency or disaster event. • Coordinate the sharing of information from local, state and federal stakeholders utilizing Amateur Radio band frequencies.

Supporting Agency	Actions
	• Provide support staffing to the EOC for the following position: ➢ Amateur Radio
Chatham County E-911	• Coordinate emergency 911 dispatching for municipal Police and Fire Departments within Chatham County. • Provide support staffing to the EOC for the following position: ➢ 911 Dispatch
City of Tybee Island Dispatch	• Coordinate communications support to all governmental, non-governmental and volunteer agencies as required by collating cumulative damage information obtained from assessment teams, the telecommunications industry, and the EOC. • Establish procedures for the management of warning resources, facilities and equipment to include initiating backup systems as appropriate. • Provide a system for designated officials to communicate with the public including individuals with functional and access needs and non-English speaking.
Mobile Communications of America	• Provide technical assistance for the public safety communications frequencies and systems utilized within Chatham County during an emergency or disaster event. • Serve as a co-host to Regional Radio Site Management (SEGARRN)
Metropolitan Planning Commission (MPC)	• Primary repository holder for GIS Data within Chatham County.
Southern Linc Wireless	• Provide technical assistance for the restoration of wireless communications during an emergency or disaster event.
Verizon	• Provide technical assistance for the restoration of landline and wireless communications during an emergency or disaster event. • Provide support staffing to the EOC for the following position: ➢ AT&T (Partner Liaison)

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Emergency Support Function – 3
Public Works and Engineering



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Change #	Date	Part Affected	Date Posted	Who Posted
1	12/3/2024	Added additional examples of MOA's/Contracts pre-event	12/3/2024	Mathews
2	12/3/2024	Added relaying costs to ESF-17 for potential disaster declaration	12/3/2024	Mathews

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ESF – 3 Public Works and Engineering

ESF COORDINATOR:
Chatham County Public Works Department

SUPPORT AGENCIES:
Chatham County Department of Engineering
Chatham County Mosquito Control
Chatham Emergency Management Agency
City of Bloomingdale Public Works Department
City of Garden City Public Works Department
City of Pooler Public Works Department
City of Port Wentworth Public Works Department
City of Savannah Infrastructure and Development
City of Savannah Sanitation Department
Town of Thunderbolt Public Works Department
City of Tybee Island Public Works Department
Georgia Department of Transportation

INTRODUCTION

The emergency support function of public works and engineering involves direction and coordination, operations, and follow-through during an emergency or disaster.

Purpose

ESF-3 Public Works and Engineering supports the EOP and complies with standards set forth in the National Response Framework. This document provides guidance to prepare for, respond to, recover from, and mitigate the effects of a disaster or emergency on Chatham County's infrastructure and networks. This however is not a tactical response document. ESF-3 is designed to ensure seamless integration of key public works and engineering resources to remove debris from streets, eliminate hazards, manage storm damage, provide rapid restoration of water/sewer services, and other associated activities to address an emergency or disaster.

Scope

ESF-3 acts to meet the public works and engineering essential elements of information needs of operations to include debris, drinking water, waste water and other infrastructure systems in an emergency or a disaster.

CONCEPT OF OPERATIONS

General

During an emergency or disaster, ESF-3 may be activated to support operations and assist with the development of a common operating picture. The scope, scale and magnitude of the threat/incident will dictate which support agencies will be requested for the support of ESF-3 Public Works and Engineering in the EOC.

Preparedness

a. Develop and maintain resource lists to support ESF-3 operations utilizing both public and private sector entities.

b. Establish and maintain contact with the state and adjacent county public works officials.

c. Develop and maintain procedures for delivery of water (potable and non-potable in a disaster area).

d. Develop and maintain contracts to address engineering, debris management, debris monitoring, snow or ice clearance, public works repair, water or sewer repair, blockade devices, signage, and others, as needed.

e. Participate in exercises and training.

f. Estimate logistical requirements (personnel, supplies, equipment, facilities, and communications) during the planning process and through exercises.

g. Ensure all ESF-3 personnel integrate NIMS principles.

Response

a. Identify water and sewer service restoration, debris management, potable water supply and engineering requirements as soon as possible.

b. Establish priorities to clear roads, repair damaged water/sewer systems and coordinate the provision of temporary, alternate or interim sources of emergency power and water/sewer services.

c. Acquire debris site permits, as needed.

d. Activate contracts to support operations, as needed.

e. Coordinate with GEMA for the use of state assets.

f. Coordinate with ESF-4 regarding the firefighting water supply.

g. Coordinate use of public works assets.

h. Identify, obtain, prioritize and allocate available public works resources.

i. Coordinate with ESF-8 Health and Medical and ESF-18 Animal Services for advice and assistance regarding the disposal of debris containing or consisting of animal carcasses.

j. Coordinate with ESF-10 HAZMAT for advice and assistance regarding disposal of hazardous materials.

k. Report the locations of damage to infrastructure, degree of damage, and other available information to the EOC.

l. Coordinate emergency information for public release through ESF-15.

m. Document matters that may be needed for inclusion in briefings, situation reports and action plans.

Recovery

a. Coordinate debris management operations as needed.

b. Coordinate the repair and restoration of infrastructure.

c. Ensure that ESF-3 team members and/or their agencies maintain appropriate records of costs incurred during the incident.

d. Ensure records of costs incurred during the incident are communicated to ESF-17 for possible disaster declarations.

Mitigation

a. Support and plan for mitigation measures.

Organization

The County EOC will be activated to coordinate a multijurisdictional level response.

Representatives from the applicable ESF-3 Agencies may be assigned to the EOC or alternate location, as best suited to meet incident needs and coordinate operations.

ESF Role Aligned to Core Capabilities

The following table lists the response capability that ESF-3 most directly supports, along with the related ESF-3 actions supporting the capability.

Core Capability	ESF-3 Public Works and Engineering
Operational Coordination	• Establish and maintain a unified and coordinated operational structure and process that appropriately integrates all critical stakeholders and supports the execution of core capabilities. This includes, among other things: ➢ Re-entry route clearance ➢ Debris operations
Infrastructure Systems	• Stabilize critical infrastructure functions, minimize health and safety threats, and efficiently restore and revitalize systems and services to support a viable, resilient community. This includes, among other things: ➢ Water network assessment ➢ Communication of viable routes post-event

Responsibilities

Coordinating Agency	Actions
Chatham County Public Works Department	• Monitor the public works infrastructure and act as the principle source of information for threats or incidents to the infrastructure • Assess the need for and prioritize the deployment of services based on available resources and critical needs • Repair/maintain appropriate public works infrastructures • Coordinate debris operations within unincorporated areas • Coordinate priority re-entry route clearance within unincorporated areas • Activate contracts to support operations, as necessary • Request additional support, as necessary • Conduct impact assessments within affected areas • Coordinate with municipal public works departments • Provide EOC Staffing for the following EOC positions as needed: ➢ ESF-3 & ESF-12 • Develop plans and procedures to support emergency or disaster operations • Coordinate ESF meetings to ensure constant state of readiness

Supporting Agency	Actions
All Supporting Agencies	• Immediately following an emergency or disaster, assess the overall status of the public works infrastructure within the area of responsibility, determine potential needs & resources, report status to ESF-3 Coordinator • Attend ESF meetings to ensure planning and coordination functions are carried out to support this ESF • Provide additional resources as available to support ESF-3 response and recovery efforts • Develop appropriate plans, policies, procedures, mutual aid agreements, and other supporting documentation as needed to facilitate execution of responsibilities to this ESF • Participate in drills, exercises, and other preparedness events to measure the Agency's readiness to support this ESF • Prepare to support the Emergency Operations Center as needed. • Document disaster related activities related to this ESF • Prepare to collect and maintain records of expenditures and document resource utilized during response and recovery operations
Chatham County Engineering Department	• Coordinate the repair of transportation infrastructure • Provide EOC Staffing for the following EOC positions as needed: ➢ Evacuation & Re-Entry Branch Director ➢ Evacuation & Re-Entry Tracking ➢ Infrastructure Branch Director ➢ ESF-01 Transportation
Chatham County Mosquito Control	• Support infrastructure assessments, provide recommendations for transportation routes • Coordinate all local requests for air support • Provide staffing for Air Support Operations Center when activated
Municipalities	• Assess the need for and prioritize the deployment of services based on available resources and critical needs • Repair/maintain appropriate public works infrastructures • Coordinate debris operations within appropriate municipality • Coordinate priority re-entry route clearance within appropriate municipality • Activate contracts to support operations, as necessary • Request additional support, as necessary
Chatham Emergency Management Agency	• Provide ESF-3 Coordinator with guidance and support required to accomplish assigned tasks

Supporting Agency	Actions
Georgia Department of Transportation	• Provide status of GDOT roads and bridges • Coordinate closures as needed • Support county and local governments with resources and technical support, as needed • Provide EOC Staffing for the following EOC position as needed: ➢ Liaison Officer
United States Army Corps of Engineers	• Assist with the removal of waterway debris • Provide EOC Staffing for the following EOC position as needed: ➢ Liaison Officer

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Emergency Support Function – 4
Firefighting



2025

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RECORD OF CHANGES

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Change #	Date	Part Affected	Date Posted	Who Posted
1	12/26/2024	Updated the ESF Coordinator	12/26/24	Mathews

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ESF – 4 Firefighting

ESF COORDINATOR:
Chatham Fire Department

SUPPORT AGENCIES:
Chatham County Mosquito Control
Chatham Emergency Management Agency
City of Bloomingdale Fire Department
City of Garden City Fire Department
City of Pooler Fire Department
City of Port Wentworth Fire Department
City of Savannah Fire Department
City of Tybee Island Fire Department
Georgia Forestry Commission
Hunter Army Airfield Fire Department
Isle of Hope Fire Department
Town of Thunderbolt Fire Department
165th Airlift Wing Fire Department

INTRODUCTION

The emergency support function of firefighting services involves direction and coordination, operations, and follow-through during an emergency or disaster.

Purpose

ESF-4 Firefighting provides operational guidance to departments/organizations that are assigned to work within this ESF. The mission of ESF-4 is to provide a comprehensive mechanism to ensure the appropriate utilization of firefighting resources both prior to and post impact of an emergency or disaster event. This however is not a tactical response document. ESF-4 Firefighting serves as the mechanism to provide support to local jurisdictions during fire suppression operations to include the detection and suppression of urban, rural and wildland fires resulting from, or occurring simultaneously with a significant natural or man-made disaster.

Scope

ESF-4 acts to meet the Firefighting and essential elements of information needs of operations by establishing a framework for the management and coordination of firefighting resources in the detection and suppression of fires, conducting urban search

and rescue operations and upon mobilizing personnel, equipment and supplies to support local entities.

CONCEPT OF OPERATIONS

General

During an emergency or disaster, ESF-4 may be activated to support operations and assist with the development of a common operating picture. The scope, scale and magnitude of the threat/incident will dictate which support agencies will be requested for the support of ESF-4 Firefighting in the EOC.

Preparedness

a. Establish a state of readiness by maintaining situational awareness on fire and weather forecasting information.

b. Maintain current inventories of fire service facilities, equipment and personnel throughout Chatham County.

c. Organize and train fire service teams to rapidly deploy to requests for assistance.

d. Conduct fire prevention and education activities to members of the general public.

e. Establish a state of readiness for necessary equipment and personnel appropriate to existing conditions and/or anticipated conditions by mobilizing resources and staging them at appropriate locations.

f. Establish an operational structure for incident command between supporting entities and the EOC.

g. Establish a structure for reliable communications between supporting entities and the EOC.

h. Coordinate the development of MOA's with appropriate agencies/organizations for the provision of fire service personnel and resources to support an emergency or disaster response.

i. Ensure all ESF-4 personnel integrate NIMS principles.

Response

a. Maintain a current listing of available fire service agencies and resource capabilities.

b. Provide support to local fire departments and the Forestry Commission through identifying and mobilizing firefighting teams and resources as necessary.

c. Ensure procedures are established to monitor the status of firefighting resources that have been committed to an incident.

d. Identify and maintain staging area locations.

e. Establish procedures to ensure communication with the State Regional Fire Coordinator as necessary to support fire service response operations beyond Chatham County's capabilities.

f. Coordinate the use of state assets to support firefighting operations with GEMA/HS.

g. Serve as a liaison to Chatham County Municipal Fire Chief's to coordinate specific requests for assistance.

h. Establish procedures for the replacement or rotation of committed firefighting resources during extended operations.

i. Support fire investigations as appropriate.

j. Obtain, maintain and provide situational assessments pertaining to the fire situation and any associated damages.

k. Provide technical assistance during firefighting operations that involve hazardous materials.

Recovery

a. Maintain adequate resources to support local operations and plan for a reduction in resources.

b. Inventory lost or damaged equipment and record any personnel injuries or equipment accidents.

c. Conduct reviews of firefighting operations with teams involved to improve future responses.

Mitigation

a. Support and plan for mitigation measures.

Organization

The County EOC will be activated to coordinate a multijurisdictional level response.

Representatives from the applicable ESF-4 Agencies may be assigned to the EOC or alternate location, as best suited to meet incident needs and coordinate operations.

ESF Role Aligned to Core Capabilities

The following table lists the response capability that ESF-4 most directly supports, along with the related ESF-4 actions supporting the capability.

Core Capability	ESF-4 Firefighting
Fire Management and Suppression	• Provide structural, wildland and specialized firefighting capabilities to manage and suppress fires of all types, kinds and complexities while protecting the lives, property and environment of the affected area. This includes, among other things: ➢ Urban and Rural Fire Suppression ➢ Wildland Fire Suppression
Situational Assessment	• Provide all decision makers with decision-relevant information regarding the nature and extent of the hazard, any cascading effects and the status of the response. This includes, among other things: ➢ Size, scope and potential cascading effects

Responsibilities

Coordinating Agency	Actions
Chatham Fire Department	• Maintain contact with municipal liaisons to collect and relay information. • Coordinate with each supporting agency through ESF meetings to ensure planning functions are carried out to support this ESF. • Plan for, coordinate with and assign responding mutual aid resources as appropriate. • Coordinate with other ESFs as appropriate for the utilization of volunteer based Firefighting resources. • Provide support staffing to the EOC for the following position: ➢ ESF-4 Firefighting

Supporting Agency	Actions
All Supporting Agencies	• Attend ESF meetings to ensure planning and coordination functions are carried out to support this ESF. • Identify Agency staff representatives to support this ESF and other operational practices during emergency and disaster operations.

Supporting Agency	Actions
All Supporting Agencies (Continued)	• Ensure the presence of resources (human and physical) are in sufficient numbers to support the Agency's responsibilities to this ESF. • Conduct recovery and restoration tasks in coordination with the EOC/RCC and federal assistance program guidance. • Annually evaluate Critical Workforce staffing needs and report sheltering and/or equipment staging locations as requested. • Coordinate pertinent disaster recovery information with the County Joint Information Center (JIC). • Identify damages and/or losses and prepare an action plan for recovery activities. • Maintain records of expenditures and document resources utilized during response and recovery operations. • Identify damages and/or losses and prepare an action plan for recovery activities. • Develop appropriate Plans, Procedures, Mutual Aid Agreements, Checklists, Go-Kits and other supporting documentation as needed to facilitate execution of the Agency's responsibilities to this ESF. • Prepare to support the EOC as necessary. • Participate in drills, exercises and other preparedness events to evaluate the Agency's readiness to support this ESF. • Ensure Agency staff maintain NIMS compliance and report compliance measurements annually as requested
Chatham County Mosquito Control	• Provide available aviation assets to assist with fire suppression operations.
Chatham Emergency Management Agency	• Coordinate a situational assessment to determine incident priorities in support of firefighting operations.
City of Bloomingdale Fire Department	• Provide support to fire suppression operations through the utilization of available resources and personnel to the affected jurisdiction. • Participate in Mutual Aid agreements to support County Firefighting operations and augment resources.
City of Garden City Fire Department	• Provide support to fire suppression operations through the utilization of available resources and personnel to the affected jurisdiction. • Participate in Mutual Aid agreements to support County Firefighting operations and augment resources.

Supporting Agency	Actions
City of Pooler Fire Department	• Provide support to fire suppression operations through the utilization of available resources and personnel to the affected jurisdiction. • Participate in Mutual Aid agreements to support County Firefighting operations and augment resources. • Provide support to Chatham County and the surrounding region for Georgia Urban Search and Rescue (GSAR) responses. • Provide support staffing to the EOC for the following position: ➢ ESF-9 Search and Rescue
City of Port Wentworth Fire Department	• Provide support to fire suppression operations through the utilization of available resources and personnel to the affected jurisdiction. • Participate in Mutual Aid agreements to support County Firefighting operations and augment resources.
City of Savannah Fire Department	• Provide support to fire suppression operations through the utilization of available resources and personnel to the affected jurisdiction. • Participate in Mutual Aid agreements to support County Firefighting operations and augment resources. • Provide support to Chatham County and surrounding region for Hazardous Materials and Georgia Urban Search and Rescue (GSAR) responses. • Provide support staffing to the EOC for the following position: ➢ ESF-10 HAZMAT
City of Tybee Island Fire Department	• Provide support to fire suppression operations through the utilization of available resources and personnel to the affected jurisdiction. • Participate in Mutual Aid agreements to support County Firefighting operations and augment resources.
Georgia Forestry Commission	• Serve as a support entity of ESF-4 and assist with the coordination of state firefighting resources as necessary. • Establish procedures for the incorporation of volunteer and private agencies to contribute appropriate assets to the response and recovery effort.
Hunter Army Airfield Fire Department	• Provide Military Fire support to the Hunter Army Airfield • Participate in Mutual Aid Agreements to support County Firefighting operations and augment resources as necessary.

Supporting Agency	Actions
Isle of Hope Fire Department	• Provide support to fire suppression operations through the utilization of available resources and personnel to the affected jurisdiction. • Participate in Mutual Aid agreements to support County Firefighting operations and augment resources.
Town of Thunderbolt Fire Department	• Provide support to fire suppression operations through the utilization of available resources and personnel to the affected jurisdiction. • Participate in Mutual Aid agreements to support County Firefighting operations and augment resources.
165th Airlift Wing Fire Department	• Provide Military and Aviation Fire support to the Savannah – Hilton Head International Airport. • Participate in Mutual Aid Agreements to support County Firefighting operations and augment resources as necessary.

Emergency Support Function – 5
Planning/Emergency Management



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1	01/09/25	Updated for 2025	01/09/25	S.Sawyer

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ESF – 5 Planning/Emergency Management

ESF COORDINATOR:
Chatham Emergency Management Agency

SUPPORT AGENCIES:
Chatham County Commission
Chatham County Engineering
Chatham County Internal Audit
Chatham County Resiliency
Chatham County Mosquito Control
Metropolitan Planning Commission (MPC)
Savannah Area Geographic Information Systems (SAGIS)

INTRODUCTION

The emergency support function of emergency management and planning services involves direction and coordination, operations, and follow-through during an emergency or disaster.

Purpose

ESF-5 provides operational guidance to departments/organizations that are assigned to work within this ESF. The mission of ESF-5 is to provide the core emergency management, planning, financial and administrative functions in support of the Emergency Operations Center (EOC). ESF-5 collects, processes, and disseminates information about an actual or potential emergency or disaster situation and facilitates the overall response and recovery activities. This however is not a tactical response document. ESF-5 will be utilized to make appropriate notifications to and interface with supporting local and state entities during an actual or potential disaster situation.

Scope

ESF-5 acts to meet the Planning/Emergency Management needs of operations to include the collection and dissemination of critical information, facilitation of the planning process, establishment of a common operating picture and ongoing situational awareness.

CONCEPT OF OPERATIONS

General

During an emergency or disaster, ESF-5 may be activated to support operations and assist with the development of a common operating picture. The scope, scale and magnitude of the threat/incident will dictate which support agencies will be requested for the support of ESF-5 Planning/Emergency Management in the EOC.

Preparedness

a. Serve as the primary coordinator of emergency management activities within Chatham County.

b. Monitor potential or developing incidents and support the efforts of operations.

c. Support the implementation of mutual aid agreements.

d. Establish procedures for agencies, organizations and local governments to maintain expenditures.

e. Coordinate the development of plans, guides and concepts intended to directly support the EOC.

f. Plan and/or attend meetings to ensure planning functions are carried out to support this ESF.

g. Participate in and/or conduct exercises to evaluate local capability.

h. Ensure all ESF-5 personnel integrate NIMS principles.

Response

a. Alert support agencies and other jurisdictions when there is a potential emergency or disaster.

b. Activate and staff the EOC according to the magnitude of the event.

c. Maintains the staffing schedule for the EOC from activation to demobilization.

d. Coordinate operations with, and situational reporting to, the State Operations Center.

e. Coordinate logistical assistance from, and between, jurisdictions, supporting agencies, and the State Operations Center (SOC) and enact Memorandums of Agreement (MOA) and contracts as necessary.

f. Compile initial damage assessment reports and forward to the SOC.

g. Coordinate or participate in briefings and conference calls to maintain and provide situational awareness.

h. Establish planning schedules and coordinate operational period objectives and reporting requirements.

i. Provide updated information to ESF-15 External Affairs to distribute to the general public and media outlets.

Recovery

a. Maintain records of expenditures and document resources utilized during the recovery phase.

b. Collect and process information regarding recovery activities to include anticipating types of recovery information that the EOC and other State agencies may require.

c. Coordinate the transition to long term recovery efforts.

d. Resume day-to-day operations.

Mitigation

a. Support and plan for mitigation measures.

Organization

The County EOC will be activated to coordinate a multijurisdictional level response or at the direction of the CEMA Director.

Representatives from the applicable ESF-5 agencies may be assigned to the EOC or alternate location, as best suited to meet incident needs.

ESF Role Aligned to Core Capabilities

The following table lists the response capability that ESF-5 most directly supports, along with the related ESF-5 actions supporting the capability.

Core Capability	ESF-5 Planning/Emergency Management
Planning	• Conduct a systematic process engaging the whole community as appropriate in the development of executable strategic, operational, and/or tactical-level approaches to meet defined objectives. This includes, among other things: ➢ Developing and maintaining Standard Operating Guides ➢ Developing and maintaining MOAs ➢ Participating in and/or conduct training and exercises to evaluate local capabilities

Core Capability	ESF-5 Planning/Emergency Management
Situational Assessment	• Provide all decision makers with decision-relevant information regarding the nature and extent of the hazard, any cascading effects, and the status of the response. This includes, among other things: ➢ Maintaining situational awareness and developing a Common Operating Picture ➢ Completing necessary reports ➢ Incorporating information displays within the EOC

Responsibilities

Coordinating Agency	Actions
Chatham Emergency Management Agency (CEMA)	• Coordinate with each support agency through at least an annual meeting to ensure planning functions are carried out to support this ESF. • Coordinate the flow of messages within the EOC. • Coordinate the overall efforts to collect, process, report and display essential elements of information and facilitate support for response operations. • Distribute plans and reports to the State and other ESFs. • Maintain records of expenditures and document resources utilized during response and recovery efforts. • Identify and provide support staff with necessary operational information to assist ESFs within the EOC. • Coordinate with Non-Governmental Organizations (NGO) and private sector resources to enhance response and recovery operations. • Participate in and/or conduct training and exercises to evaluate local capabilities.

Supporting Agency	Actions
All Supporting Agencies	• Attend at least an annual meeting to ensure planning functions are carried out to support this ESF. • Identify and provide support staff representatives for this ESF and ensure that they have necessary operational information related to assigned activities. • Request non-governmental organizations and private sector entities with available assets contribute those resource to enhance the response effort. • Participate in training and/or exercises to evaluate local capacities.

Supporting Agency	Actions
All Supporting Agencies (Continued)	• Maintain records of expenditures and document resources utilized during recovery operations.
Chatham County Engineering	• Provide EOC Staffing for the following EOC positions as needed: ➢ Situational Awareness Unit ➢ Geographic Information Systems (GIS) Unit
Chatham County Internal Audit	• Provide EOC Staffing for the following EOC positions as needed: ➢ Situational Awareness Unit
Chatham County Resiliency	• Provide EOC Staffing for the following EOC positions as needed: ➢ Planning Section Chief
Metropolitan Planning Commission	• Provide EOC Staffing for the following EOC positions as needed: ➢ Future Planning Unit ➢ Situational Awareness Unit
SAGIS	• Provide EOC Staffing for the following EOC positions as needed: ➢ Geographic Information Systems (GIS) Unit

Emergency Support Function – 6
Mass Care/Sheltering



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1	12/2024	Document Update	12/2024	C. Sawyer

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ESF – 6 Mass Care/Sheltering

ESF COORDINATOR:
Chatham Emergency Management Agency

SUPPORT AGENCIES:
American Red Cross
America's Second Harvest of Coastal Georgia
Chatham County Animal Services
Chatham County Department of Family and Children Services
Chatham County Fire Department
Chatham County Health Department
Chatham County Parks and Recreation
Chatham County Strategic Planning
Chatham Emergency Services
Chatham Savannah Authority for the Homeless
Coastal Empire Disaster Recovery Committee
Georgia Baptist Disaster Relief
Housing Authority of Savannah
Living Independent for Everyone (LIFE), Inc.
Salvation Army
Savannah Chatham County Public School System
Savannah Food Truck Association

INTRODUCTION

The emergency support function of Mass Care/Sheltering services involves direction and coordination, operations, and follow-through during an emergency or disaster.

Purpose

ESF-6 Mass Care/Sheltering provides operational guidance to departments/organizations that are assigned to work within this ESF. The mission of ESF-6 is to coordinate activities associated with the emergency provision of temporary non-medical shelters, housing, and human services to include emergency mass feeding and disaster welfare information of individuals and/or families impacted by an emergency or disaster event. This however is not a tactical response document. ESF-6 Mass Care/Sheltering is designed to ensure seamless integration of key mass care resources and information for preparedness, response, recovery, and mitigation activities to address an emergency or disaster.

Scope

ESF-6 acts to meet the Mass Care/Sheltering and essential elements of information needs of operations to include emergency sheltering, housing, feeding, and human services support to include mass feeding and disaster welfare information in an emergency or a disaster.

CONCEPT OF OPERATIONS

General

During an emergency or disaster, ESF-6 may be activated to support operations and assist with the development of a common operating picture. The scope, scale and magnitude of the threat/incident will dictate which support agencies will be requested for the support of ESF-6 Mass Care/Sheltering in the EOC.

Preparedness

a. Maintain a roster of primary ESF support staff points of contact.

b. Coordinate with ESF-8 Health/Medical for the provision of updated lists of planned functional and access needs shelters or other special needs resources.

c. Coordinate with the American Red Cross, Chatham County Health Department, CEMA and GEMA/HS to ensure an up-to-date shelter list is available. Ensure that this list includes the location, capacity, health inspection status, accessibility level, pet space, generator or generator hook up and point of contact information.

d. Acquire and regularly update a list of agencies (public and private sector) that have a mission and capability to provide mass feeding during times of disaster.

e. Coordinate with the American Red Cross and CEMA to establish a communication system between the EOC and operational shelters.

f. Plan for the evacuation of and care for the populations (unique & general) during an emergency or disaster.

g. Ensure that procedures are established, and responsibilities identified for the issuance and distribution for feeding operations for residents both in and out of shelters through the use of mobile and on-site feeding resources

h. Ensure that procedures are established and responsibilities identified for the issuance and distribution for feeding operations for emergency workers and critical workforce shelters through the use of mobile and on-site feeding resources.

i. Coordinate the development of MOA's with appropriate agencies/organizations for the provision of services to assist individuals and families affected by the emergency or disaster.

j. Coordinate with ESF-6 stakeholders to ensure essential shelter arrangements are made including securing shelter and feeding arrangements, training shelter workers, providing shelter management, distributing media releases regarding shelter locations, operating shelters and maintaining shelter records.

k. Participate in and/or attend meetings to ensure planning functions are carried out to support this ESF.

l. Participate in and/or conduct exercises to evaluate local capability.

m. Ensure all ESF-6 support entities integrate NIMS principles throughout planning activities.

Response

a. Coordinate with ESF-5 Planning/Emergency Management and ESF-11 Agriculture/Food/Water to identify food and water needs as well as establish mass feeding sites to ensure optional access for public service.

b. Conduct a needs assessment with supporting entities to determine the number of sheltering facilities necessary to support the emergency or disaster. Include the amount of functional and access needs shelters that may be required.

c. Establish processes for the opening and closing of shelter facilities in accordance with the needs assessment.

d. Support the opening and operation of shelters upon request as appropriate.

e. Coordinate with ESF-3 Public Works/Engineering for garbage removal and ESF-8 Health/Medical for sanitation requirements and inspections at mass feeding sites.

f. Monitor the occupancy levels and ongoing needs of operational shelters and provide an updated list of shelter locations to ESF-5 Planning/Emergency Management.

g. Coordinate with ESF-13 Law Enforcement for security needs and specialized units as appropriate at shelter locations and mass feeding sites.

h. Ensure a functional communications system has been established between operational shelters and the EOC. This may include the use of radios, phones and electronic messaging services.

i. Coordinate with ESF-8 Health/Medical for the provision of medical services and mental health services within operational shelters.

j. Coordinate with ESF-11 Agriculture/Food/Water for the incorporation of community resources and personnel for the provision and distribution of food and water.

k. Provide a list of mass care sites requiring restoration of services to the EOC.

l. Maintain records of expenditures and document resources utilized during response.

Recovery

a. Coordinate with ESF-5 Planning/Emergency Management, ESF-8 Health/Medical, and ESF-11 Agriculture/Food/Water for the establishment and support of mass feeding sites operated by ESF-6 partners.

b. Coordinate with appropriate ESF-6 support entities to establish a process for the reunification of family members who may have been separated as a result of the emergency or disaster event.

c. Continue the provision of food and/or water and the coordination of mass feeding operations to ensure optimal access for public service throughout re-entry and recovery.

d. Coordinate with ESF-3 Public Works/Engineering for garbage removal and ESF-8 Health/Medical for sanitation requirements and inspections at mass feeding sites.

e. Maintain records of expenditures and document resources utilized during recovery.

Mitigation

a. Support and plan for mitigation measures.

Organization

The County EOC will be activated to coordinate a multijurisdictional level response.

Representatives from the applicable ESF-6 Agencies may be assigned to the EOC or alternate location, as best suited to meet incident needs and coordinate operations.

ESF Role Aligned to Core Capabilities

The following table lists the response capability that ESF-6 most directly supports, along with the related ESF-6 actions supporting the capability.

Core Capability	ESF-6 Mass Care/Sheltering
Mass Care Services	• Provide life-sustaining and human services to the affected population. This includes, among other things: ➢ Hydration ➢ Feeding ➢ Sheltering ➢ Temporary Housing ➢ Evacuee Support ➢ Reunification ➢ Distribution of Emergency Supplies
Housing	• Implement housing solutions that effectively support the needs of the whole community and contribute to its sustainability and resilience. This includes, among other things: ➢ Short-term housing ➢ Intermediate-term housing ➢ Long-term housing

Responsibilities

Coordinating Agency	Actions
Chatham Emergency Management Agency (CEMA)	• Coordinate a situational assessment to determine priorities for conducting sheltering and mass feeding operations within the community. • Ensure agencies providing sheltering and mass feeding support have adequate support and all necessary resources are procured. • Serve as the principle point of contact with ESF-6 mass care/sheltering from the EOC. • Coordinate ESF meetings to ensure constant state of readiness. • Provide coordination for staffing, supporting and operating shelters during an emergency or disaster event. • Provide coordination for staffing, supporting and operating mass feeding sites through activation of the Chatham County Mass Feeding Taskforce during emergency or disaster events.

Supporting Agency	Actions
All Supporting Agencies	• Ensure the presence of resources (human and physical) are in sufficient numbers to support the Agency's responsibilities to this ESF. • Attend ESF meetings to ensure planning and coordination functions are carried out to support this ESF • Conduct recovery and restoration tasks in coordination with the EOC and federal assistance program guidance. • Annually evaluate Critical Workforce staffing needs and report sheltering and/or equipment staging locations as requested. • Coordinate pertinent disaster recovery information with the County Joint Information Center (JIC) and ESF-15 External Affairs. • Following an emergency event, identify damages and/or losses and prepare an action plan for recovery activities. • Maintain records of expenditures and document resources utilized during response and recovery operations. • Develop appropriate plans, procedures, Mutual Aid Agreements, checklists, go-kits and other supporting documentation as needed to facilitate execution of the agency's responsibilities to this ESF. • Prepare to support the EOC, if requested. • Participate in drills, exercises and other preparedness events to evaluate the agency's readiness to support this ESF.
American Red Cross	• Provide shelter listings for each facility with the names and contact numbers of each facility liaison. • Establish a protocol for prioritizing response actions. • Provide a system for recording incoming requests for sheltering, identifying response assignments and actions to be taken. • Coordinate bulk emergency relief distribution points, when possible. • Coordinate activities with other ESF's, as necessary. • Participate in the Chatham County Mass Feeding Taskforce for awareness and support, if possible. • Coordinate the release of public information regarding the locations of shelters with ESF-15 External Affairs. • Provide support staffing to the EOC for the following position: ➢ EOC Liaison

Supporting Agency	Actions
America's Second Harvest of Coastal Georgia	• Provide feeding support to disaster survivors. • Participate in the Chatham County Mass Feeding Taskforce • Provide critical workforce sheltering location for EOC personnel, as necessary. • Provide feeding operations assistance to the general population, when available. • Provide support staffing to the EOC for the following position, if requested: ➢ ESF-11 Agriculture/Food/Water
Chatham County Animal Services	• Coordinate sheltering arrangements for animals. • Establish a system to register animal identification data in an effort to reunite animals with their owners. • Identify potential shelter locations (barns, pastures, kennels, etc.) to be utilized as animal shelters. • Coordinate the reunification of animals to their owners and determine the disposition of animals that cannot be reunited with their owners or returned to a normal habitat. • Coordinate the release of public information related to pet/animal sheltering or reunification with ESF-15 External Affairs. • Provide support staffing to the EOC for the following position, if requested: ➢ ESF-18 Animal Services
Chatham County Department of Family and Children Services	• Assist with the assessment of human needs during and post disaster. • Coordinate disaster food stamp (D-SNAP) operations and/or other food support for individuals and/or families affected by the emergency or disaster event. • Provide support staffing to the EOC for the following positions, if requested: ➢ ESF-6 Mass Care Services
Chatham County Fire Department	• Assist shelter and mass feeding staff with connections to behavioral health resources, should they be requested. • Provide support staffing to the EOC for the following positions, if requested: ➢ ESF-4 Firefighting
Chatham County Health Department	• Coordinate support staffing assigned to shelters through identifying available health and welfare workers to augment personnel assigned to shelters. • Support disaster mental health services.

Supporting Agency	Actions
Chatham County Health Department (continued)	• Provide technical assistance for shelter, feeding and warehouse operations related to food, vendor control, water supply and waste disposal. • Participate in the Chatham County Mass Feeding Taskforce. • Coordinate the provision of medical and first-aid supplies for shelters and first-aid stations. • Provide support staffing to the EOC for the following positions, if requested: ➢ Health and Human Services Branch Director ➢ ESF-8 Health and Medical Services • Provide an agency representative to the EOC to monitor and input information into the Hurricane Registry Board on WebEOC
Chatham County Parks and Recreation	• Provide support staffing for sheltering operations to include both general population and critical workforce shelters. • Provide support staffing to the EOC for the following position, if requested: ➢ Sheltering
Chatham County Strategic Planning	• Provide support staffing to the EOC for the following positions, if requested: ➢ ESF-6 Mass Care Services ➢ Sheltering ➢ ESF-8 Vulnerable Populations ➢ ESF-15 External Affairs
Chatham Emergency Services	• Provide resources as appropriate to assist with basic medical care and transportation services during sheltering operations. • Provide support staffing to the EOC for the following position: ➢ Emergency Medical Services
Chatham Savannah Authority for Homeless	• Serve as the principal point of contact for the Homeless Continuum of Care with ESF-6 Mass Care/Sheltering. • Provide a current listing of unsheltered locations for service coordination Pre / Post disaster. • Coordinate with other ESFs and the EOC as necessary to provider subject matter expertise on individuals experiencing homelessness. • Support Disaster Mental Health services Pre / Post disaster.

Supporting Agency	Actions
Coastal Empire Disaster Recovery Committee	• Support disaster mental health services with member agencies, as available. • Request volunteer agencies and private sector entities with resources contribute those assets to the response and recovery effort. • Participate in the Chatham County Mass Feeding Taskforce. • Provide support staffing to the EOC for the following position as necessary: ➢ Volunteers and Donations Management
Georgia Baptist Disaster Relief	• Provide listings of mass feeding sites and contact numbers for each site manager. • Establish a protocol for prioritizing response actions. • Participate in the Chatham County Mass Feeding Taskforce.
Housing Authority of Savannah	• Support housing alternatives for those displaced by an emergency or disaster event. • Provide subject matter expertise on available housing programs and support.
Living Independent for Everyone (LIFE), Inc.	• Assist in the identification of access barriers to evacuation and sheltering resources/processes for people with disabilities (ex. shelter site walk-throughs, sharing of past evacuation challenges of people with disabilities) • Assist in the dissemination of information about emergency planning efforts/resources to people with disabilities in Chatham County. • Facilitate connection between and sharing of information and resources among 1) ESF agencies/organizations and 2) local/regional/national support organizations serving people with disabilities.
Salvation Army	• Provide resources to support mass feeding operations. • Participate in the Chatham County Mass Feeding Taskforce. • Support disaster mental health services. • Provide feeding services to members of Chatham County's Critical Workforce and supporting emergency responders. • Provide comprehensive emergency support services to include case management, financial counseling and additional emergency aid support to disaster survivors, as appropriate.

Supporting Agency	Actions
Savannah Chatham County Public School System	• Provide support to sheltering and mass feeding operations through utilization of equipment, facilities and necessary resources, if requested. • Participate in the Chatham County Mass Feeding Taskforce. • Coordinate the release of public information regarding the locations of shelters and mass feeding sites with ESF-15 External Affairs. • Provide law enforcement support for security at shelters as necessary and if requested. • Provide support staffing to the EOC for the following positions: ➢ SCCPSS Liaison
Savannah Food Truck Association	• Identify and secure food items to support mass feeding operations. • Provide certified food truck vendors to support the overall feeding strategy. • Participate in the Chatham County Mass Feeding Taskforce. • Provide for the proper storage of food provided during the emergency or disaster event.

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Emergency Support Function – 7
Logistics



2025

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RECORD OF CHANGES

Each update or change to the plan should be tracked. The record of changes, usually in table format, contains, at a minimum, a change number, the date of the change, the name of the person who made the change, and a summary of the change. Other relevant information could be considered.

Change #	Date	Part Affected	Date Posted	Who Posted
1	01/09/25	Updated for 2025	01/09/25	Mathews

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ESF – 7 Logistics

ESF COORDINATOR:
Chatham Emergency Management Agency

SUPPORT AGENCIES:
Chatham County Finance Department
Chatham County Purchasing and Contracting Department
Coastal Empire Disaster Recovery Committee
City of Bloomingdale Finance Department
City of Garden City Finance Department
City of Pooler Finance Department
City of Port Wentworth Finance Department
City of Savannah
City of Tybee Island Finance Department
Savannah Chatham County Public School System
Town of Thunderbolt Finance Department
University of Georgia Extension Services
United States Army Corps of Engineers

INTRODUCTION

The emergency support function of Logistics services involves direction and coordination, operations, and follow-through during an emergency or disaster.

Purpose

ESF-7 Logistics provides operational guidance to departments/organizations that are assigned to work within this ESF. The mission of ESF-7 is to provide comprehensive disaster logistics planning, management and sustainment capabilities that harness the resources of internal and external stakeholders to include public, private and Non-Governmental organizations. This however is not a tactical response document. ESF-7 Logistics will coordinate with supporting entities for the coordination, procurement and management of resources necessary to support response and recovery operations.

Scope

ESF-7 acts to meet the Logistics and essential elements of information needs of operations by establishing a framework for the integration of internal and external logistics support entities through increased collaboration in planning, sourcing, acquisition and utilization of resources.

CONCEPT OF OPERATIONS

General

During an emergency or disaster, ESF-7 may be activated to support operations and assist with the development of a common operating picture. The scope, scale and magnitude of the threat/incident will dictate which support agencies will be requested for the support of ESF-7 Logistics in the EOC.

Preparedness

a. Develop procedures for responding to and complying with resource requests.

b. Coordinate with local public, private and Non-Governmental Organizations to establish and maintain a listing of available resources to include services and donated goods for use during an emergency or disaster event.

c. Coordinate the development of pre-planned contracts as necessary to ensure prompt support from vendors during an emergency or disaster event.

d. Develop and execute MOAs between Chatham County and supporting agencies/organizations as appropriate.

e. Provide training to ESF-7 Logistics support entities on Chatham County emergency procurement procedures for acquiring supplies, resources and equipment.

f. Utilize hazard vulnerability data to develop a listing of resource inventories and pre-identify anticipated resource requests by ESF.

g. Establish procedures for the reimbursement of private vendors for services rendered during an emergency or disaster event.

h. Establish a process for the notification of volunteer organizations when an emergency or disaster event is either threatening or already occurred within Chatham County.

i. Participate in and/or conduct exercises to evaluate local capability.

j. Ensure all ESF-7 support entities integrate NIMS principles throughout planning activities.

Response

a. Conduct a situational assessment to identify potential resource needs.

b. Contact appropriate support entities whose personnel, equipment or other identified resources may be necessary to support operations.

c. Establish a process to ensure the tracking and accountability of requested resources.

d. Locate, procure and issue county agencies the necessary resources to support emergency operations. This includes coordination with the Chatham County Purchasing Department to identify prospective staging area warehouses available for lease to replace damaged or destroyed facilities.

e. Execute county contracts and/or MOA's as needed.

f. Coordinate with GEMA/HS to deploy state resources and personnel to support emergency operations.

g. Coordinate the establishment of a staging area for volunteers to unload, store or disperse donated goods.

h. Coordinate with ESF-13 Law Enforcement to evaluate the security requirements necessary at warehousing facilities.

i. Provide necessary information for public release to ESF-15 External Affairs to be disseminated to the general public.

Recovery

a. Coordinate the continued support of delivery of services to emergency response entities and disaster survivors throughout the emergency or disaster event.

b. Conduct procurement activities as long as necessary until all identified procurement needs have been met.

c. Assess the continuing volunteer services needs of disaster survivors.

d. Ensure that ESF-7 team members and/or their agencies maintain appropriate records of costs incurred during the incident.

Mitigation

a. Support and plan for mitigation measures.

Organization

The County EOC will be activated to coordinate a multijurisdictional level response.

Representatives from the applicable ESF-7 Agencies may be assigned to the EOC or alternate location, as best suited to meet incident needs and coordinate operations.

ESF Role Aligned to Core Capabilities

The following table lists the response capability that ESF-7 most directly supports, along with the related ESF-7 actions supporting the capability.

Core Capability	ESF-7 Logistics
Logistics and Supply Chain Management	• Deliver essential commodities, equipment and services in support of the impacted communities and survivors. Synchronize logistics capabilities and enable the restoration of impacted supply chains. This may include, among other things: ➢ Emergency power and fuel support ➢ Coordinate the access to community staples
Supply Chain Integrity and Security	• Strengthen the security and resilience of the supply chain. This may include, among other things: ➢ Fuel Supplies ➢ Feeding Supplies ➢ Health and Medical Supplies

Responsibilities

Coordinating Agency	Actions
Chatham Emergency Management Agency	• Serve as the principle point of contact with ESF-7 Logistics from the EOC. • Coordinate ESF meetings to ensure constant state of readiness. • Provide training to support entities regarding planning for and operating Points of Distribution. • Provide rapid identification of internal resources that could potentially be utilized to fulfill resource requests during disaster response operations. • Coordinate the expedient leasing of real property to facilitate disaster logistics operations during a disaster response. • Coordinate expedient renting, purchasing and contracting of critical equipment, supplies and services needed during an emergency or disaster response. • Provide for the rapid establishment and operation of temporary field logistics facilities during an emergency or disaster response. • Coordinate the provision and installation of temporary emergency power to county critical facilities during an emergency or disaster response.

Coordinating Agency	Actions
Chatham Emergency Management Agency (Continued)	• Order, receive, store, account for and distribute Initial Response Resources such as: ➢ Water ➢ Ice ➢ Shelf-stable meals ➢ Tarps ➢ Medicine ➢ Medical Supplies • Coordinate with the Volunteer and Donations unit to ensure a tracking system has been established for both volunteers and donated goods • Provide support staffing to the EOC for the following positions: ➢ Logistics Section Chief ➢ Volunteers and Donations ➢ Commodities Distribution

Supporting Agency	Actions
All Supporting Agencies	• Coordinate with each support agency through meetings to ensure planning functions are carried out to support this ESF. • Identify Agency staff representatives to support this ESF and other operational practices during emergency and disaster operations. • Ensure the presence of resources (human and physical) are in sufficient numbers to support the Agency's responsibilities to this ESF. • Conduct recovery and restoration tasks in coordination with the EOC/RCC and federal assistance program guidance. • Annually evaluate Critical Workforce staffing needs and report sheltering and/or equipment staging locations as requested. • Coordinate pertinent disaster recovery information with the County Joint Information Center (JIC). • Identify damages and/or losses and prepare an action plan for recovery activities. • Maintain records of expenditures and document resources utilized during response and recovery operations. • Identify damages and/or losses and prepare an action plan for recovery activities.

Supporting Agency	Actions
All Supporting Agencies (Continued)	• Develop appropriate Plans, Procedures, Mutual Aid Agreements, Checklists, Go-Kits and other supporting documentation as needed to facilitate execution of the Agency's responsibilities to this ESF. • Prepare to support the EOC as necessary. • Participate in drills, exercises and other preparedness events to evaluate the Agency's readiness to support this ESF.
Chatham County Finance Department	• Provide support staffing to the EOC for the following positions: ➢ Finance Section Chief ➢ Compensation and Claims ➢ Cost ➢ Time ➢ Volunteers and Donations
Chatham County Purchasing and Contracting Department	• Provide support staffing to the EOC for the following position: ➢ Resources and Facilities
Coastal Empire Disaster Recovery Committee	• Provide support staffing to the EOC for the following position: ➢ Volunteers and Donations
City of Bloomingdale Finance Department	• Provide support staffing to the EOC for the following position: ➢ City of Bloomingdale Liaison Officer
City of Garden City Finance Department	• Provide support staffing to the EOC for the following position: ➢ City of Garden City Liaison Officer
City of Pooler Finance Department	• Provide support staffing to the EOC for the following position: ➢ City of Pooler Liaison Officer
City of Port Wentworth Finance Department	• Provide support staffing to the EOC for the following position: ➢ City of Port Wentworth Liaison Officer
City of Savannah	• Provide support staffing to the EOC for the following position: ➢ City of Savannah Liaison Officer

Supporting Agency	Actions
City of Tybee Island Finance Department	• Provide support staffing to the EOC for the following position: ➢ City of Tybee Island Liaison Officer
Savannah Chatham County Public School System	• Provide support staffing to the EOC for the following positions: ➢ SCCPSS Police and Facilities ➢ SCCPSS Transportation
Town of Thunderbolt Finance Department	• Provide support staffing to the EOC for the following position: ➢ City of Thunderbolt Liaison Officer
University of Georgia Extension Services	• Provide support staffing to the EOC for the following position: ➢ Resources Branch ➢ ESF-7 Resource Ordering and Tracking
United States Army Corps of Engineers	• Following an incident of critical significance, coordinate with appropriate ESF-7 entities to provide information on supporting logistical operations throughout Chatham County to include: ➢ Points of Distribution Operations ➢ Power Generation Provide support staffing to the EOC for the following position: ➢ USACE Liaison Officer

Emergency Support Function – 8
Health and Medical



2025

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RECORD OF CHANGES

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Change #	Date	Part Affected	Date Posted	Who Posted
1	12/2024	Document Update	12/2024	C. Sawyer

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ESF – 8 Health and Medical

ESF COORDINATOR:
Chatham County Health Department

SUPPORT AGENCIES:
American Red Cross
Chatham Area Transit
Chatham County Animal Services
Chatham County Coroner's Office
Chatham County Fire Department
Chatham County Mosquito Control
Chatham Emergency Management Agency
Chatham Emergency Services
Curtis V Cooper Primary Health Care
Department of Family and Children Services
Gateway Behavioral Health
Georgia Department of Agriculture
J.C. Lewis Primary Health Care
Living Independent for Everyone (LIFE), Inc.
Medical Reserve Corps
Memorial Health University Medical Center
Salvation Army
St. Joseph/Candler Hospital
YMCA of Coastal Georgia

INTRODUCTION

The emergency support function of Health and Medical services involves direction and coordination, operations, and follow-through during an emergency or disaster.

Purpose

ESF-8 Health and Medical provides operational guidance to departments/organizations that are assigned to work within this ESF. The mission of ESF-8 is to provide the mechanism for coordinated County assistance to municipal resources by addressing the public health and medical needs of residents, disaster survivors and emergency response workers during disasters, potential disasters or events that have the potential to impact the public's health. This, however, is not a tactical response document. ESF-8 Health

and Medical establishes the framework for the implementation of procedures addressing the local identification, registration, evacuation and sheltering support of individuals with access and functional needs.

Scope

ESF-8 acts to meet the Health / Medical and essential elements of information needs of operations to include emergency medical services personnel, facilities, vehicles, equipment and supplies for disaster survivors, including those with functional and access needs in an emergency or a disaster.

CONCEPT OF OPERATIONS

General

During an emergency or disaster, ESF-8 may be activated to support operations and assist with the development of a common operating picture. The scope, scale and magnitude of the threat/incident will dictate which support agencies will be requested for the support of ESF-8 Health and Medical in the Emergency Operations Center (EOC).

Preparedness

a. Identify and coordinate the deployment of doctors, nurses, patient care technicians and other medical personnel to disaster areas, as necessary.

b. Create and maintain a list of available medical supplies, equipment, transportation services, hospitals, medical care clinics, mental health services, durable medical equipment (DME) suppliers, and first aid units to support disaster response operations.

c. Establish procedures to ensure the continuity of health and medical services to the community.

d. Identify locations for the establishment of staging areas for medical personnel, equipment and supplies, as necessary.

e. Identify facilities and/or locations to utilize as medical care centers should the primary emergency care facilities not be available.

f. Coordinate with local healthcare entities (hospitals, long term care facilities, youth and adult clinical facilities) to establish procedures for the reduction, evacuation, and relocation of patients.

g. Establish procedures for requesting medical assistance teams to provide support to disaster response and recovery operations.

h. Establish procedures for the provision of medical and dental care, as necessary.

i. Establish plans that reflect the needs of all persons to include those with physical disabilities, special medical needs, communication disabilities, those with intellectual and development disabilities, those with mental health needs, and non-English speaking individuals.

j. Identify individuals within the general populous experiencing functional, access and/or medical needs, including those individuals within long term care facilities.

k. Establish and coordinate procedures in conjunction with local and state stakeholders for the evacuation and relocation of individuals experiencing functional, access and medical needs. This is commonly referred to as the Hurricane Registry.

l. Communicate with ESF-6 Mass Care/Sheltering and ESF-11 Agriculture/Food and Water for the provision of food services to individuals with dietary restrictions.

m. Coordinate with ESF-6 Mass Care/Sheltering and ESF-11 Agriculture/Food and Water to ensure the delivery of food services to individuals who have a pre-identified functional, access and medical need.

n. Establish and coordinate procedures in conjunction with both ESF-6 Mass Care/Sheltering and ESF-18 Animal Services to protect the public from communicable diseases and the contamination of food, water and pharmaceuticals.

o. Establish procedures for the identification of disease, vector, and epidemic control.

p. Establish procedures for the distribution of emergency immunizations.

q. Identify procedures to provide testing of individual/private water sources (e.g. wells).

r. Identify sanitary inspection procedures and establish protocols to control unsanitary conditions.

s. Create and maintain a list of available environmental laboratory testing facilities.

t. Provide guidance to facilities caring for Chatham County's vulnerable populations in the development and maintenance of emergency preparedness and response plans.

u. Ensure essential public health information is monitored and coordinate with ESF-15 External Affairs for dissemination as appropriate.

v. Identify procedures for the rapid provision of crisis counseling and mental health/ substance abuse assistance to individuals, including the organization and

deployment of crisis counseling teams. Identify resources that will provide training and coordination of these crisis counseling teams.

w. Maintain relationships with government agencies, professional associations, private sector entities, faith-based groups, and volunteer organizations to provide mental health and substance abuse assistance during emergency or disaster events.

x. Ensure all ESF-8 personnel integrate NIMS principles.

Response

a. Coordinate the delivery of health and medical services during an emergency or disaster event.

b. Coordinate the provision of medical personnel, equipment, pharmaceuticals, and necessary supplies to support operations.

c. Coordinate with ESF-6 Mass Care/Sheltering for the provision of health and medical services during sheltering operations, as necessary.

d. Conduct a situational assessment to determine the need for the implementation of health surveillance programs.

e. Coordinate the evacuation and/or relocation of individuals experiencing functional, access and/or medical needs as appropriate and communicate any limitations or resource needs to GEMA/HS.

f. Coordinate public health and sanitation services, as necessary.

g. Coordinate the provision of mental health and recovery services to individuals, families and communities as necessary.

h. Coordinate the provision of essential public health information support to emergency medical services providers.

i. Maintain a process for the distribution of all relevant health and medical information to the general public in cooperation with ESF-15 External Affairs and the state Department of Public Health.

Recovery

a. Coordinate the restoration of essential health and medical care systems as appropriate.

b. Provide assistance with the restoration of permanent medical facilities and the return to normal operational status.

c. Coordinate and assist with the restoration of available medical supplies, equipment, transportation services, hospitals, medical care clinics, mental health services, durable medical equipment (DME) suppliers, and first aid units.

d. Coordinate and establish methods for individuals with functional, access and/or medical needs and establish to return to an identified destination.

e. Maintain situational awareness to determine the need for conducting environmental and epidemiological surveillance.

f. Continue necessary assistance throughout the re-entry process and until all health and medical concerns have been resolved.

g. Coordinate with local Code Enforcement authorities to issue Public Health notices regarding necessary clean-up actions on private properties.

Mitigation

a. Support and plan for mitigation measures.

Organization

The County EOC will be activated to coordinate a multijurisdictional level response.

Representatives from the applicable ESF-8 Agencies may be assigned to the EOC or alternate location, as best suited to meet incident needs and coordinate operations.

ESF Role Aligned to Core Capabilities

The following table lists the response capability that ESF-8 most directly supports, along with the related ESF-8 actions supporting the capability.

Core Capability	ESF-8 Health and Medical
Public Health, Healthcare, and Emergency Medical Services	• Provide lifesaving medical treatment via Emergency Medical Services and related operations and avoid additional disease and injury by providing targeted public health, medical, and behavioral health support, and products to all affected populations. This includes but not limited to: ➢ Hurricane Registry ➢ Disease prevention and protection
Health and Social Services	• Restore and improve health and social services capabilities and networks to promote the resilience, independence, health (including behavioral health), and well-being of the whole community. This includes but not limited to: ➢ Community Care Providers ➢ Medical Facilities

Responsibilities

Coordinating Agency	Actions
Chatham County Health Department	• Serve as the principle point of contact with ESF-8 Health and Medical from the EOC. • Coordinate ESF meetings to ensure constant state of readiness. • Conduct a situational assessment to determine the health and medical needs associated with the emergency or disaster event. • Establish a protocol for prioritizing response actions. • Provide leadership in directing, coordinating and integrating the overall countywide efforts to provide medical and public health assistance to disaster survivors. • Coordinate and direct the activation and deployment of resources to include health/medical personnel, supplies and equipment to support disaster response and recovery operations. • Coordinate the establishment of both active and passive surveillance systems to ensure protection of the public health. • Provide technical assistance in coordination to the response for: ➢ Hazardous materials incidents ➢ Safety of food and drugs ➢ Radiological hazards ➢ Vector Control ➢ Mental health emergencies ➢ Potable water/wastewater/solid waste ➢ Victim identification/mortuary services • Coordinate the release of boil water orders, safety issues and pertinent information for the public health with ESF-15 External Affairs. • Provide support staffing to the EOC for the following positions: ➢ Health and Human Services Branch ➢ ESF-8 Health and Medical Services *DPH will be providing a liaison to the EOC to monitor and input data into the Hurricane Registry Evacuation Board during evacuations*

Supporting Agency	Actions
All Supporting Agencies	• Attend meetings to ensure planning functions are carried out to support this ESF. • Identify Agency staff representatives to support this ESF and other operational practices during emergency and disaster operations. • Ensure the presence of resources (human and physical) are in sufficient numbers to support the Agency's responsibilities to this ESF. • Conduct recovery and restoration tasks in coordination with the EOC/RCC and federal assistance program guidance. • Annually evaluate Critical Workforce staffing needs and report sheltering and/or equipment staging locations as requested. • Coordinate pertinent disaster recovery information with the County Joint Information Center (JIC). • Identify damages and/or losses and prepare an action plan for recovery activities. • Maintain records of expenditures and document resources utilized during response and recovery operations. • Develop appropriate plans, procedures, Mutual Aid Agreements, checklists, go-kits and other supporting documentation as needed to facilitate execution of the Agency's responsibilities to this ESF. • Prepare to support the EOC as necessary. • Participate in drills, exercises, and other preparedness events to evaluate the Agency's readiness to support this ESF. • Ensure Agency staff maintain NIMS compliance and report compliance measurements annually as requested.
American Red Cross	• Provide supplementary medical, nursing aid, and other health services upon request and in accordance with current capabilities. • Establish procedures to obtain the names of those affected by the emergency or disaster event to facilitate health and welfare communications between appropriate agencies and members of immediate family. • Provide assistance to disaster survivors for the replacement of personal medical supplies, glasses, dentures, hearing aids, wheelchairs and medications as appropriate. • Provide support for mental health counseling as available.

Supporting Agency	Actions
Chatham Area Transit	• Provide transportation support in coordination with the evacuation of individuals experiencing functional and access needs. • Provide support staffing to the EOC for the following position: ➢ Chatham Area Transit
Chatham County Animal Services	• Provide support for the evacuation of pets during the evacuation of individuals with functional, access and/or medical needs. • Establish procedures for the reunification of pets to their owners' post event. • Provide support staffing to the EOC for the following position: ➢ ESF-18 Animal Services
Chatham County Coroner's Office	• Coordinate mortuary service operations to include the establishment and operation of a temporary morgue.
Chatham County Fire Department	• Assist shelter and mass feeding staff with connections to behavioral health resources, should they be requested. • Provide support staffing to the EOC for the following positions, if requested: ➢ ESF-4 Firefighting
Chatham County Mosquito Control	• Identify and monitor mosquito populations for the threat of disease. • Eradicate disease carrying mosquito populations.
Chatham Emergency Management Agency	• Coordinate a situational assessment to determine priorities regarding Health and Medical affects to the community. • Ensure agencies providing Health and Medical services have adequate support and all necessary resources are obtained.
Chatham Emergency Services	• Coordinate the evacuation of patients from the disaster area. • Coordinate the transportation of patients to medical facilities outside of Chatham County in accordance with approved trauma transport protocols. • Coordinate the following resources: ➢ Advanced Life Support/Basic Life Support ➢ Emergency Medical Technicians ➢ Paramedic's ➢ Procurement of Emergency Medical Equipment ➢ Air Evacuation Resources

Supporting Agency	Actions
Chatham Emergency Services (continued)	• Coordinate critical incident stress debriefings for emergency responders. • Coordinate the integration of public and private services into the emergency or disaster response. • Provide support staffing to the EOC for the following Position: • Emergency Medical Services
Curtis V. Cooper Primary Health Care	• Provide utilization of Curtis V. Cooper Primary Health Care facility in support of the evacuation and return of individuals with access to medical, dental and pharmacy services. • Provide support for individuals with behavioral health needs. • Provide Mobile Health services by deploying five (5) mobile units to provide medical, dental and/or behavioral health needs.
Department of Family and Children Services	• Establish mental health crisis counseling centers as appropriate. • Provide support staffing to the EOC for the following position: ➢ ESF-6 Mass Care Services
Georgia Department of Agriculture	• Coordinate inspections of venues such as groceries stories and other facilities that fall under identified Department of Agriculture responsibilities. • Provide assistance in conducting damage assessments with matters related to farmland, commodities, livestock and structures.
J.C. Lewis Primary Health Care	• Provide utilization of J.C. Lewis Primary Health Care facility in support of the evacuation and return of individuals with access to medical, dental and pharmacy services. • Provide support for individuals with behavioral health needs.
Living Independent for Everyone (LIFE), Inc.	• Assist in the identification of access barriers to evacuation and sheltering resources/processes for people with disabilities (ex. shelter site walk-throughs, sharing of past evacuation challenges of people with disabilities) • Assist in the dissemination of information about emergency planning efforts/resources to people with disabilities in Chatham County. • Facilitate connection between and sharing of information and resources among 1) ESF agencies/organizations and 2) local/regional/national support organizations serving people with disabilities.

Supporting Agency	Actions
Medical Reserve Corps	• Support the provision of medical services in accordance with identified agency protocols. • Maintain a current list of all volunteers and associated credentials to support disaster response operations.
Memorial Health University Medical Center	• Coordinate the evacuation of patients from the disaster areas as requested. • Coordinate the transportation of victims to medical facilities outside of Chatham County in accordance with approved trauma transport protocols. • Coordinate Critical Incident Stress Debriefings for emergency responders as appropriate.
Memorial Health University Medical Center (continued)	• Re-supply field emergency medical service units with consumable medical supplies as available. • Conduct an assessment of hospital capabilities and damages. Provide the results of these assessments to the EOC. • Mobilize hospital staff as available and necessary to provide teams to support field treatment and triage sites. • Coordinate with emergency medical service units, surrounding hospitals and incident response support personnel to ensure that casualties are transported to the appropriate medical facility. • Coordinate with local emergency responders for the isolation and decontamination of incoming patients as necessary to prevent the spread of agents to other patients and staff members. • Provide staff for the establishment of a reception and support center for friends and family of disaster survivors. • Provide patient identification information to the American Red Cross upon request and in accordance with appropriate procedures. • Establish mental health crisis counseling centers. • Provide support staffing to the EOC for the following position: ➢ Hospitals
Salvation Army	• Provide support for mental health services. • Provide feeding support during the evacuation and return of individuals with functional and access needs, commonly known as the Hurricane Registry.

Supporting Agency	Actions
St. Joseph/Candler Hospital(s)	• Coordinate the evacuation of patients from the disaster areas as requested. • Coordinate the transportation of victims to medical facilities outside of Chatham County in accordance with approved trauma transport protocols. • Coordinate for Critical Incident Stress Debriefings for emergency responders as appropriate. • Re-supply field emergency medical service units with consumable medical supplies as available. • Conduct an assessment of hospital capabilities and damages. Provide the results of these assessments to the EOC. • Mobilize hospital staff as available and necessary to provide teams to support field treatment and triage sites.
St. Joseph/Candler Hospital(s) (continued)	• Coordinate with emergency medical service units, surrounding hospitals and incident response support personnel to ensure that casualties are transported to the appropriate medical facility. • Coordinate with local emergency responders for the isolation and decontamination of incoming patients as necessary to prevent the spread of agents to other patients and staff members. • Provide staff for the establishment of a reception and support center for friends and family of disaster survivors. • Provide patient identification information to the American Red Cross upon request and in accordance with appropriate procedures. • Establish mental health crisis counseling centers. • Provide support staffing to the EOC for the following position: ➢ Hospitals
YMCA of Coastal Georgia	• Provide utilization of the West Chatham YMCA facility in support of the evacuation and return of individuals with functional and access needs, commonly known as the Hurricane Registry.

Emergency Support Function – 9
Search and Rescue



2025

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RECORD OF CHANGES

Each update or change to the plan should be tracked. The record of changes, usually in table format, contains, at a minimum, a change number, the date of the change, the name of the person who made the change, and a summary of the change. Other relevant information could be considered.

Change #	Date	Part Affected	Date Posted	Who Posted
1	01/09/25	Updated for 2025	01/09/25	Mathews

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Agency	Name, Title	Date of Delivery	Copies

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ESF – 9 Search and Rescue

ESF COORDINATOR:
City of Pooler Fire Department

SUPPORT AGENCIES:
Chatham County Marine Patrol
Chatham County Mosquito Control
Chatham County Police Department
Chatham County Sheriff's Office
Chatham Emergency Management Agency
Chatham Fire Department
City of Bloomingdale Fire Department
City of Bloomingdale Police Department
City of Garden City Fire Department
City of Garden City Police Department
City of Pooler Police Department
City of Port Wentworth Fire Department
City of Port Wentworth Police Department
City of Savannah Fire Department
City of Savannah Police Department
City of Tybee Island Fire Department
City of Tybee Island Police Department
Civil Air Patrol
Georgia Forestry Commission
Hunter Army Airfield Fire Department
Hunter Army Airfield Police Department
Isle of Hope Fire Department
Marine Rescue Squadron
Town of Thunderbolt Fire Department
Town of Thunderbolt Police Department
United States Coast Guard/Marine Safety Unit
165th Airlift Wing Fire Department

INTRODUCTION

The emergency support function of Search and Rescue services involves direction and coordination, operations, and follow-through during an emergency or disaster.

Purpose

ESF-9 Search and Rescue provides operational guidance to departments/organizations that are assigned to work within this ESF. The mission of ESF-9 is to rapidly deploy local search and rescue components to provide specialized life-saving assistance to municipal authorities during an emergency or disaster event. This however is not a tactical response document. ESF-9 Search and Rescue serves as the mechanism to provide coordination and resource support to local jurisdictions involved in both urban and non-urban search and rescue operations.

Scope

ESF-9 acts to meet the Search/Rescue and essential elements of information needs of operations by establishing a framework for the management and coordination of Search and Rescue resources for locating, extricating and providing medical assistance to individuals in both the urban and non-urban setting.

CONCEPT OF OPERATIONS

General

During an emergency or disaster, ESF-9 may be activated to support operations and assist with the development of a common operating picture. The scope, scale and magnitude of the threat/incident will dictate which support agencies will be requested for the support of ESF-9 Search and Rescue in the EOC.

Preparedness

a. Maintain a current listing of available resources and trained personnel that could support search and rescue operations and ensure a state of readiness.

b. Anticipate the mobilization of personnel and equipment during existing or anticipated emergencies and be prepared to stage those resources at assigned locations.

c. Establish and maintain a liaison with state Urban Search and Rescue assets and anticipate the arrival of external assets in support of operations as appropriate.

d. Ensure all ESF-9 personnel integrate NIMS principles.

Response

a. Provide support to local agencies through the provision of necessary and deployment of teams and equipment in support of Search and Rescue operations.

b. Assume responsibility for the coordination and tracking of all resources committed to a Search and Rescue incident. This may include the placement of personnel at an Incident Command Post and the establishment of staging areas.

c. Deploy liaison teams to the Incident Command Post or County EOC as necessary to support operations.

d. Coordinate the utilization of available resources to augment response agencies during search and rescue operations and request state and federal assistance as necessary.

e. Ensure all emergency Search and Rescue incident information is provided to the EOC to ensure the development of a common operating picture and maintain situational awareness.

f. Coordinate with ESF-15 External Affairs for the dissemination of information to members of the general public and local media outlets.

g. Coordinate with ESF-1 Transportation for the utilization of available resources to transport emergency workers, evacuated persons and rescued victims from the emergency scene to an identified safe location or emergency shelter.

h. Coordinate with ESF-1 Transportation and ESF-8 Health and Medical for the provision of medical assistance and the transportation of victims beyond initial collection points.

i. Incorporate State and Federal resources in support of Search and Rescue operations as needed.

Recovery

a. Maintain adequate resources to support local operations and plan for a reduction in resources.

b. Inventory lost or damaged equipment and record any personnel injuries or equipment accidents.

c. Conduct reviews of Search and Rescue operations with teams involved to improve future responses.

Mitigation

a. Support and plan for mitigation measures.

Organization

The County EOC will be activated to coordinate a multijurisdictional level response.

Representatives from the applicable ESF-9 Agencies may be assigned to the EOC or alternate location, as best suited to meet incident needs and coordinate operations.

ESF Role Aligned to Core Capabilities

The following table lists the response capability that ESF-9 most directly supports, along with the related ESF-9 actions supporting the capability.

Core Capability	ESF-9 Search and Rescue
Mass Search and Rescue Operations	• Deliver traditional and atypical search and rescue capabilities, including personnel, services, animals and assets to survivors in need, with the goal of saving the greatest number of endangered lives in the shortest time possible. This includes but not limited to: ➢ Urban Search and Rescue ➢ Wilderness Search and Rescue ➢ Marine Search and Rescue
Situational Assessment	• Provide all decision makers with decision-relevant information regarding the nature and extent of the hazard, any cascading effects and the status of the response. This includes but not limited: ➢ Size, scope and potential cascading effects

Responsibilities

Coordinating Agency	Actions
City of Pooler Fire Department	• Coordinate with each supporting agency through ESF meetings to ensure planning functions are carried out to support this ESF. • Develop a listing of available assets to support Search and Rescue operations.
City of Pooler Fire Department (Continued)	• Establish procedures for the prioritization of response actions. • Conduct a situational assessment to determine the need for Search and Rescue services based upon identified critical needs and available resources. • Establish procedures for the incorporation of private sector assets to support operations. • Establish procedures for the development and utilization of County search maps in support of operations. • Coordinate with ESF-3 Public Works/Engineering for the provision of technical assistance for the completion of structural shoring as required to ensure the safety of Search and Rescue teams. • Coordinate with ESF-15 External Affairs for the dissemination of critical public information.

Coordinating Agency	Actions
	• Ensure communications with municipal liaison to ensure the collection of critical information and the development of a common operating picture. • Serve as a liaison between the EOC and the State EOC. • Provide technical assistance concerning any potential policy challenges. • Coordinate with ESF-3 Public Works/Engineering for debris removal and/or push back to allow Search and Rescue team movement. • Coordinate with ESF-1 Transportation for the utilization of assets to transport Search and Rescue team personnel. • Provide support staffing to the EOC for the following position: ➢ ESF-9 Search and Rescue

Supporting Agency	Actions
All Supporting Agencies	• Attend meetings to ensure planning functions are carried out to support this ESF. • Identify Agency staff representatives to support this ESF and other operational practices during emergency and disaster operations. • Ensure the presence of resources (human and physical) are in sufficient numbers to support the Agency's responsibilities to this ESF. • Conduct recovery and restoration tasks in coordination with the EOC/RCC and federal assistance program guidance.
All Supporting Agencies (Continued)	• Annually evaluate Critical Workforce staffing needs and report sheltering and/or equipment staging locations as requested. • Coordinate pertinent disaster recovery information with the County Joint Information Center (JIC). • Identify damages and/or losses and prepare an action plan for recovery activities. • Maintain records of expenditures and document resources utilized during response and recovery operations. • Develop appropriate Plans, Procedures, Mutual Aid Agreements, Checklists, Go-Kits and other supporting documentation as needed to facilitate execution of the Agency's responsibilities to this ESF. • Prepare to support the EOC as necessary. • Participate in drills, exercises and other preparedness events to evaluate the Agency's readiness to support this ESF.

Supporting Agency	Actions
	• Ensure Agency staff maintain NIMS compliance and report compliance measurements annually as requested.
Chatham County Marine Patrol	• Provide available marine assets to assist with Search and Rescue operations.
Chatham County Mosquito Control	• Provide available aviation assets to assist with Search and Rescue operations.
Chatham County Police Department	• Provide security for Search and Rescue teams and identified search areas. • Provide assistance through utilizing available resources in the search for victims. • Provide an Incident Commander during searches for missing persons within assigned jurisdiction. • Provide assistance and security during death investigations. • Provide support staffing to the EOC for the following positions: ➢ Public Safety Branch ➢ ESF-13 Law Enforcement ➢ EOC Security
Chatham County Sheriff's Office	• Provide security for Search and Rescue teams and identified search areas. • Provide assistance through utilizing available resources in the search for victims. • Provide assistance and security during death investigations.
Chatham Emergency Management Agency	• Coordinate a situational assessment to determine priorities regarding Search and Rescue operations within the community. • Ensure agencies providing Search and Rescue services have adequate support and all necessary resources are identified. • Provide direction and oversight to the Chatham Emergency Management Agency Search and Rescue Team. • Establish and maintain appropriate volunteer team standard operating procedures. • Implement volunteer Search and Rescue resources as needed.

Supporting Agency	Actions
Chatham Emergency Fire Department	• Provide assistance through utilizing available resources in the search for victims. • Provide support staffing to the EOC for the following position: ➢ ESF-4 Firefighting
City of Bloomingdale Fire Department	• Provide assistance through utilizing available resources in the search for victims. • Provide assistance through utilizing available resources for the treatment of victims in accordance with local protocols.
City of Bloomingdale Police Department	• Provide security for Search and Rescue teams and identified search areas. • Provide assistance through utilizing available resources in the search for victims. • Provide an Incident Commander during searches for missing persons within assigned jurisdiction. • Provide assistance and security during death investigations.
City of Garden City Fire Department	• Provide assistance through utilizing available resources in the search for victims. • Provide assistance through utilizing available resources for the treatment of victims in accordance with local protocols.
City of Garden City Police Department	• Provide security for Search and Rescue teams and identified search areas. • Provide assistance through utilizing available resources in the search for victims. • Provide an Incident Commander during searches for missing persons within assigned jurisdiction.
City of Garden City Police Department (Continued)	• Provide assistance and security during death investigations.
City of Pooler Police Department	• Provide security for Search and Rescue teams and identified search areas. • Provide assistance through utilizing available resources in the search for victims. • Provide an Incident Commander during searches for missing persons within assigned jurisdiction. • Provide assistance and security during death investigations.
City of Port Wentworth Fire Department	• Provide assistance through utilizing available resources in the search for victims. • Provide assistance through utilizing available resources for the treatment of victims in accordance with local protocols.

Supporting Agency	Actions
City of Port Wentworth Police Department	• Provide security for Search and Rescue teams and identified search areas. • Provide assistance through utilizing available resources in the search for victims. • Provide an Incident Commander during searches for missing persons within assigned jurisdiction. • Provide assistance and security during death investigations.
City of Savannah Fire Department	• Provide assistance through utilizing available resources in the search for victims. • Provide assistance through utilizing available resources for the treatment of victims in accordance with local protocols. • Utilize designated Georgia Search and Rescue Teams to provide technical assistance and aid in identified Search and Rescue requirements. • Provide support staffing to the EOC for the following position: ➢ ESF-10 Hazmat
City of Savannah Police Department	• Provide security for Search and Rescue teams and identified search areas. • Provide assistance through utilizing available resources in the search for victims. • Provide an Incident Commander during searches for missing persons within assigned jurisdiction. • Provide assistance and security during death investigations.
City of Tybee Island Fire Department	• Provide assistance through utilizing available resources in the search for victims. • Provide assistance through utilizing available resources for the treatment of victims in accordance with local protocols.
City of Tybee Island Police Department	• Provide security for Search and Rescue teams and identified search areas. • Provide assistance through utilizing available resources in the search for victims. • Provide an Incident Commander during searches for missing persons within assigned jurisdiction. • Provide assistance and security during death investigations.

Supporting Agency	Actions
Civil Air Patrol	• Provide available aviation assets to assist with Search and Rescue operations to include the search for downed aircraft. • Establish and maintain communications with the Incident Commander/Search and Rescue Coordinator throughout operations.
Georgia Forestry Commission	• Provide assistance through utilizing available resources in the search for victims. • Provide assistance in the development and utilization of mapping tools to support Search and Rescue operations. • Provide experienced personnel to provide insight and support search operations within a National Forest or Park.
Hunter Army Airfield Fire Department	• Provide assistance through utilizing available resources in the search for victims. • Provide assistance through utilizing available resources for the treatment of victims in accordance with local protocols.
Hunter Army Airfield Police Department	• Provide security for Search and Rescue teams and identified search areas. • Provide assistance through utilizing available resources in the search for victims. • Provide an Incident Commander during searches for missing persons within assigned jurisdiction. • Provide assistance and security during death investigations.
Isle of Hope Fire Department	• Provide assistance through utilizing available resources in the search for victims. • Provide assistance through utilizing available resources for the treatment of victims in accordance with local protocols.
Marine Rescue Squadron	• Provide available assets to assist with water related Search and Rescue operations. • Establish and maintain communications with the Incident Commander/Search and Rescue Coordinator throughout operations.
Town of Thunderbolt Fire Department	• Provide assistance through utilizing available resources in the search for victims. • Provide assistance through utilizing available resources for the treatment of victims in accordance with local protocols.

Supporting Agency	Actions
Town of Thunderbolt Police Department	• Provide security for Search and Rescue teams and identified search areas. • Provide assistance through utilizing available resources in the search for victims. • Provide an Incident Commander during searches for missing persons within assigned jurisdiction. • Provide assistance and security during death investigations.
United States Coast Guard/Marine Safety Unit	• Provide available assets to assist with water related Search and Rescue operations. • Establish and maintain communications with the Incident Commander/Search and Rescue Coordinator throughout operations.
165th Airlift Wing Fire Department	• Provide assistance through utilizing available resources in the search for victims. • Provide assistance through utilizing available resources for the treatment of victims in accordance with local protocols.

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Emergency Support Function – 10
Hazardous Materials



2025

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RECORD OF CHANGES

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Change #	Date	Part Affected	Date Posted	Who Posted
1	1/7/25	Added Chatham Fire	1/7/25	Mathews

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ESF – 10 Hazardous Materials

ESF COORDINATOR:
Savannah Fire Department

SUPPORT AGENCIES:
Chatham Emergency Management Agency
Chatham Fire Department
City of Bloomingdale Fire Department
City of Garden City Fire Department
City of Pooler Fire Department
City of Port Wentworth Fire Department
City of Tybee Island Fire Department
Georgia Forestry Commission
Hunter Army Airfield Fire Department
Isle of Hope Fire Department
Town of Thunderbolt Fire Department
165th Airlift Wing Fire Department

INTRODUCTION

The emergency support function of firefighting services involves direction and coordination, operations, and follow-through during an emergency or disaster.

Purpose

ESF-10 Hazardous Materials provides operational guidance to departments/organizations that are assigned to work within this ESF. The mission of ESF-10 is to provide a comprehensive mechanism to ensure the appropriate utilization of hazardous materials resources in response to an actual or potential discharge and/or uncontrolled release of oil or hazardous materials during disasters or emergencies. This however is not a tactical response document. ESF-10 Hazardous Materials serves as the mechanism to provide support to local jurisdictions during hazardous materials operations

Scope

ESF-10 acts to meet the hazardous materials and essential elements of information needs of operations by assessing potential impacts to the health of individuals and the environment.

CONCEPT OF OPERATIONS

General

During an emergency or disaster, ESF-10 may be activated to support operations and assist with the development of a common operating picture. The scope, scale and magnitude of the threat/incident will dictate which support agencies will be requested for the support of ESF-10 in the EOC.

Preparedness

a. Prepare an inventory of existing threats using SARA Title III and Tier II information.

b. Plan for response to hazardous materials incidents.

c. Develop plans for communications, warning and public information.

d. Develop procedures for identification, control, and clean-up of hazardous materials.

e. Develop and maintain a listing of private contractors capable of performing emergency and/or remedial actions associated with a hazardous materials incident.

f. Maintain current inventories of local assets capable of responding to a hazardous materials incident.

g. Develop plans and/or mutual aid agreements regarding hazardous materials incidents with local agencies, other county agencies, contiguous states, federal agencies, and private organizations as required.

h. Collect and utilize licensing, permitting, monitoring, and/or transportation information from the appropriate local, county, state, or federal agencies and/or private organizations to facilitate emergency response.

i. Establish a structure for reliable communications between supporting entities and the EOC.

j. Coordinate the development of MOA's with appropriate agencies/organizations for the provision of hazardous materials personnel and resources to support an emergency or disaster response.

k. Ensure all ESF-10 personnel integrate NIMS principles.

Response

a. Maintain a current listing of available fire service agencies and resource capabilities.

b. ESF 10 will coordinate, with the Unified/Incident Command, all hazardous substance response specific efforts and provide information to the EOC for coordination of all other municipal efforts.

c. Provide 24-hour response capability and dispatch personnel to an incident scene as necessary.

d. ESF 10 will assess the situation to include: the nature, amount and location of real or potential releases of hazardous materials; pathways to human and environmental exposure; probable direction and time of travel of the materials; potential impact on human health, welfare, safety, and the environment; types, availability, and location of response resources, technical support, and cleanup services; and priorities for protecting human health, welfare and the environment.

e. After reviewing reports, gathering and analyzing information and consulting with appropriate agencies, determine and provide, as available, the necessary level of assistance.

f. Provide protective action recommendations, as the incident requires.

g. Provide for monitoring to determine the extent of the contaminated area and consult with appropriate support agencies to provide access and egress control to contaminated areas.

h. Consult with appropriate local, state, or federal agencies and/or private organizations with regard to the need for decontamination. Coordinate with ESF 8 regarding decontamination of injured or deceased persons.

i. Coordinate decontamination activities with appropriate local, state, and federal agencies.

j. Coordinate with appropriate local, state, and federal agencies to ensure the proper disposal of wastes associated with hazardous materials incidents; and assist in monitoring or tracking such shipments to appropriate disposal facilities.

Recovery

a. Terminate operations when the emergency phase is over and when the area has been stabilized by responsible personnel.

b. Inventory lost or damaged equipment and record any personnel injuries or equipment accidents.

Mitigation

a. Support and plan for mitigation measures.

Organization

The County EOC will be activated to coordinate a multijurisdictional level response.

Representatives from the applicable ESF-10 Agencies may be assigned to the EOC or alternate location, as best suited to meet incident needs and coordinate operations.

ESF Role Aligned to Core Capabilities

The following table lists the response capability that ESF-10 most directly supports, along with the related ESF-10 actions supporting the capability.

Core Capability	ESF-10 Hazardous Materials
Environmental Response/Health and Safety	• Conduct appropriate measures to ensure the protection of the health and safety of the public and workers, as well as the environment, from all-hazards in support of responder operations and the affected communities. This includes, among other things: ➢ Fixed site hazardous materials incidents ➢ Environmental contamination
Situational Assessment	• Provide all decision makers with decision-relevant information regarding the nature and extent of the hazard, any cascading effects and the status of the response. This includes, among other things: ➢ Size, scope and potential cascading effects

Responsibilities

Coordinating Agency	Actions
Savannah Fire Department	• Coordinate with other ESFs to consolidate reports of hazmat responses • Maintain contact with municipal liaisons to collect and relay information • Establish a protocol for prioritizing hazmat responses • Coordinate with each supporting agency through ESF meetings to ensure planning functions are carried out to support this ESF. • Plan for, coordinate with and assign responding mutual aid resources as appropriate. • Provide support staffing to the EOC for the following position: ➢ ESF-10 Hazmat

Supporting Agency	Actions
All Supporting Agencies	• Coordinate the training of all first responder agency personnel in basic hazmat awareness to assist in recognition of and first-step protection measures for response to hazmat incidents • Coordinate the planning required to identify and plan for known risks within the community, and provide education to the public and continually improve the reaction capabilities of local emergency response agencies • Respond to hazardous material incidents of all types and sizes that warrant a response • Make initial assessments as to the severity/magnitude of the situation • Coordinate appropriate decontamination efforts, as needed • Attend ESF meetings to ensure planning and coordination functions are carried out to support this ESF • Provide additional resources as available to support ESF-10 response and recovery efforts • Identify Agency staff representatives to support this ESF and other operational practices during emergency and disaster operations. • Coordinate pertinent disaster recovery information with the County Joint Information Center (JIC). • Identify damages and/or losses and prepare an action plan for recovery activities. • Maintain records of expenditures and document resources utilized during response and recovery operations. • Develop appropriate Plans, Procedures, Mutual Aid Agreements, Checklists, Go-Kits and other supporting documentation as needed to facilitate execution of the Agency's responsibilities to this ESF. • Prepare to support the EOC as necessary. • Participate in drills, exercises and other preparedness events to evaluate the Agency's readiness to support this ESF. • Document disaster related activities related to this ESF • Prepare to collect and maintain records of expenditures and document resource utilized during response and recovery operations
Chatham Emergency Management Agency	• Coordinate a situational assessment to determine incident priorities in support of firefighting operations.

Supporting Agency	Actions
City of Bloomingdale Fire Department	• Provide support to hazardous materials operations through the utilization of available resources and personnel to the affected jurisdiction. • Participate in Mutual Aid agreements to support County Firefighting operations and augment resources.
City of Garden City Fire Department	• Provide support to hazardous materials operations through the utilization of available resources and personnel to the affected jurisdiction. • Participate in Mutual Aid agreements to support County Firefighting operations and augment resources.
City of Pooler Fire Department	• Provide support to hazardous materials operations through the utilization of available resources and personnel to the affected jurisdiction. • Participate in Mutual Aid agreements to support County Firefighting operations and augment resources. • Provide support staffing to the EOC for the following position: ➢ ESF-9 Search and Rescue
City of Port Wentworth Fire Department	• Provide support to hazardous materials operations through the utilization of available resources and personnel to the affected jurisdiction. • Participate in Mutual Aid agreements to support County Firefighting operations and augment resources.
City of Tybee Island Fire Department	• Provide support to hazardous materials operations through the utilization of available resources and personnel to the affected jurisdiction. • Participate in Mutual Aid agreements to support County Firefighting operations and augment resources.
Hunter Army Airfield Fire Department	• Provide support to hazardous materials operations through the utilization of available resources and personnel to the affected jurisdiction. • Participate in Mutual Aid agreements to support County Firefighting operations and augment resources.
Isle of Hope Fire Department	• Provide support to hazardous materials operations through the utilization of available resources and personnel to the affected jurisdiction. • Participate in Mutual Aid agreements to support County Firefighting operations and augment resources.

Supporting Agency	Actions
Chatham Fire Department	• Provide support to hazardous materials operations through the utilization of available resources and personnel to the affected jurisdiction. • Participate in Mutual Aid agreements to support County Firefighting operations and augment resources. • Provide support staffing to the EOC for the following position: ➢ ESF-4 Firefighting
Town of Thunderbolt Fire Department	• Provide support to hazardous materials operations through the utilization of available resources and personnel to the affected jurisdiction. • Participate in Mutual Aid agreements to support County Firefighting operations and augment resources.
165th Airlift Wing Fire Department	• Provide Military and Aviation hazardous materials support to the Savannah – Hilton Head International Airport. • Participate in Mutual Aid Agreements to support County Firefighting operations and augment resources as necessary.

Emergency Support Function – 11
Agriculture/Food and Water



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1	12/2024	Document Update	12/2024	C. Sawyer

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ESF – 11 Agriculture/Food and Water

ESF COORDINATOR:
Chatham Emergency Management Agency
Chatham County Health Department

SUPPORT AGENCIES:
American Red Cross
America's Second Harvest of Coastal Georgia
Coastal Empire Disaster Recovery Committee
Georgia Baptist Disaster Relief
Georgia Department of Agriculture
Salvation Army
Savannah Chatham County Public School System
Savannah Food Truck Association

INTRODUCTION

The emergency support function of Agriculture/Food and Water services involves direction and coordination, operations, and follow-through during an emergency or disaster.

Purpose

ESF-11 Agriculture/Food and Water provides operational guidance to departments/organizations that are assigned to work within this ESF. The mission of ESF - 11 is to provide coordination in conjunction with ESF-6 Mass Care/Sheltering for nutrition assistance and administration of the Disaster Supplemental Nutrition Assistance Program (D-SNAP), ensuring the safety and security of Chatham County's commercial food supply and eradicating highly infectious animal and plant based diseases. This however is not a tactical response document. ESF-11 Agriculture/Food and Water is designed to provide a framework for the integration of key resources and information for preparedness, response, recovery, and mitigation activities to address an emergency or disaster.

Scope

ESF-11 acts to meet the Agriculture/Food and Water essential elements of information needs of operations to include the provision and protection of the commercial food supply and response to diseases affecting animals and/or plants during an emergency or disaster event.

CONCEPT OF OPERATIONS

General

During an emergency or disaster, ESF-11 may be activated to support operations and assist with the development of a common operating picture. The scope, scale and magnitude of the threat/incident will dictate which support agencies will be requested for the support of ESF-11 Agriculture/Food and Water in the EOC.

Preparedness

a. Maintain a roster of primary ESF support staff points of contact.

b. Ensure that procedures are established and responsibilities identified for the issuance and distribution for feeding operations.

c. Maintain a listing of potential food resources to include appropriate point of contact information.

d. Coordinate with ESF-8 Health and Medical to ensure food safety inspection and monitoring procedures are established.

e. Coordinate with ESF-8 Health and Medical to ensure the establishment of procedures for the response to a threatened food supply.

f. Establish a process for public notifications regarding suspected and/or contaminated food supplies in conjunction with ESF-8 Health and Medical and ESF-15 External Affairs.

g. Coordinate with ESF-6 Mass Care/Sheltering to identify secured sources of food for distribution during mass feeding operations.

h. Coordinate with ESF-6 Mass Care/Sheltering to establish procedures and determine the availability of personnel and handling equipment to ensure the timely distribution of food and drinking water.

i. Coordinate with ESF-6 Mass Care/Sheltering to determine the availability of personnel and handling equipment to support mass feeding operations.

j. Coordinate with ESF-6 Mass Care/Sheltering for the availability and location of food storage facilities within Chatham County. This may include the ability to store dry, chilled and/or frozen food items.

k. Work with the state Department of Agriculture to assist, when necessary, the surveillance of pests that may pose a potential and/or substantial threat to agriculture, horticulture, the economy or the public health.

l. Coordinate the development of MOA's with appropriate agencies/organizations for the provision of services to assist individuals and families affected by the emergency or disaster.

m. Participate in and/or attend meetings to ensure planning functions are carried out to support this ESF.

n. Ensure all ESF-11 support entities integrate NIMS principles throughout planning activities.

Response

a. Coordinate with ESF-5 Planning/Emergency Management and ESF-6 Mass Care/Sheltering to determine the critical feeding needs of disaster survivors and establishment of mass feeding sites, as appropriate.

b. Establish procurement procedures for essential food and necessary supplies that are not available from existing inventories.

c. Coordinate with ESF-6 Mass Care/Sheltering for the incorporation of community resources and personnel for the provision and distribution of food and water and appropriate distribution procedures.

d. Establish procedures for the notification of appropriate state and federal agencies in the event of suspicious activity contributing to the contamination of food supplies.

e. Secure food supplies, transportation assets, and necessary equipment to include storage and/or distribution facilities to support operations.

f. Coordinate with ESF-6 Mass Care/Sheltering and ESF-8 Health and Medical to establish guideline for immediate local protective measures concerning a potential threat to the food supply.

g. Coordinate with ESF-13 Law Enforcement for suspected cases of intentional food supply contamination. This may include the use of a chemical or biological agent.

h. Coordinate the decontamination and/or destruction of animals, plants, cultured aquatic products, food and any associated facilities as necessary.

i. Support efforts to quarantine, stop the sale or movement of and placement of restrictions upon animals, plants and products as necessary to eradicate diseases and pests.

j. Coordinate with appropriate entities for technical assistance, equipment, supplies and personnel to respond to animal health emergencies or acts of agro-terrorism that may pose a substantial threat to the state.

k. Coordinate the dissemination of essential public information with ESF-15 External Affairs.

Recovery

a. Coordinate with ESF-5 Planning/Emergency Management, ESF-6 Mass Care/Sheltering and ESF-8 Health and Medical to support existing mass feeding sites to ensure optimal access for public service based upon emergency needs.

b. Coordinate with state agencies as appropriate for the provision of food and water to mass feeding sites.

c. Determine the need for mutual aid assistance and implement request for assistance through local mutual aid agreements of through GEMA/HS.

d. Request Veterinary Medical Assistance Teams (VMATs) as necessary through GEMA/HS.

e. Coordinate operations to ensure appropriate occupational safety measures are followed.

Mitigation

a. Support and plan for mitigation measures.

Organization

The County EOC will be activated to coordinate a multijurisdictional level response.

Representatives from the applicable ESF-11 Agencies may be assigned to the EOC or alternate location, as best suited to meet incident needs and coordinate operations.

ESF Role Aligned to Core Capabilities

The following table lists the response capability that ESF-11 most directly supports, along with the related ESF-11 actions supporting the capability.

Core Capability	ESF-11 Agriculture/Food and Water
Environmental Response/Health and Safety	• Conduct appropriate measures to ensure the protection of the health and safety of the public and workers, as well as the environment, from all-hazards, in support of responder operations and the affected communities. This includes but is not limited to: ➢ Food and Water distribution ➢ Bulk Food Storage

Responsibilities

Coordinating Agency	Actions
Chatham Emergency Management Agency	• Coordinate ESF meetings to ensure planning functions are carried out to support this ESF. • Coordinate a situational assessment to determine priorities for conducting mass feeding operations within the community. • Coordinate with ESF-6 Mass Care/Sheltering for the establishment of Mass Feeding Sites. • Coordinate support staffing for the ESF-11 Food and Water Unit within the EOC. • Coordinate the establishment of Points of Distribution and operational procedures. • Ensure agencies providing support to ESF-11 Agriculture/Food and Water have the necessary guidance and support required to accomplish tasks.
Chatham County Health Department	• Support provisions to ensure food safety and sanitary conditions are maintained during retail food preparation and distribution. • Ensure the establishment of food safety inspection and monitoring procedures. • Support the Georgia Department of Agriculture as they respond to a threatened food supply. • Ensure proper notifications are made to the public during a suspected and/or contaminated food supply event. • Coordinate the surveillance of pests and/or animals that may pose a potential or substantial threat to the public health. • Provide support staffing to the EOC for the following positions: ➢ Health and Human Services Branch ➢ ESF-8 Health and Medical

Supporting Agency	Actions
All Supporting Agencies	• Attend meetings to ensure planning functions are carried out to support this ESF. • Identify agency staff representatives to support this ESF and other operational practices during emergency and disaster operations. • Ensure the presence of resources (human and physical) are sufficient in number to support the Agency's responsibilities to this ESF. • Conduct recovery and restoration tasks in coordination with the EOC and federal assistance program guidance. • Annually evaluate Critical Workforce staffing needs and report sheltering and/or equipment staging locations, as requested. • Coordinate pertinent disaster response and recovery information with the County Joint Information Center (JIC) and ESF-15 External Affairs. • Identify damages and/or losses and prepare an action plan for recovery activities. • Maintain records of expenditures and document resources utilized during response and recovery operations. • Develop appropriate plans, procedures, Mutual Aid Agreements, checklists, go-kits and other supporting documentation as needed to facilitate execution of the Agency's responsibilities to this ESF. • Prepare to support the EOC, as necessary. • Participate in drills, exercises and other preparedness events to evaluate the Agency's readiness to support this ESF. • Ensure agency staff maintain NIMS compliance and report compliance measurements annually, as requested.
American Red Cross	• Provide shelter listings for each facility with the names and contact numbers of each facility liaison. • Establish a protocol for prioritizing response actions. • Provide a system for recording incoming requests for sheltering, identifying response assignments and actions to be taken. • Coordinate bulk emergency relief distribution points, when possible. • Coordinate activities with other ESF's, as necessary. • Participate in the Chatham County Mass Feeding Taskforce for awareness and support, if possible. Coordinate the release of public information regarding the locations of shelters with ESF-15 External Affairs.

Supporting Agency	Actions
American Red Cross (Continued)	• Provide support staffing to the EOC for the following position: ➢ EOC Liaison
America's Second Harvest of Coastal Georgia	• Provide feeding support to disaster survivors. • Participate in the Chatham County Mass Feeding Taskforce • Provide critical workforce sheltering location for EOC personnel, as necessary. • Provide feeding operations assistance to the general population, when available. • Provide support staffing to the EOC for the following position: ➢ ESF-11 Agriculture / Food/Water
Coastal Empire Disaster Recovery Committee	• Request volunteer agencies and private sector entities with resources contribute those assets to the response and recovery effort. • Participate in the Chatham County Mass Feeding Taskforce • Provide support staffing to the EOC for the following position as necessary: ➢ Volunteers & Donations
Georgia Baptist Disaster Relief	• Provide listings of mass feeding sites and contact numbers for each site manager. • Establish a protocol for prioritizing response actions. • Participate in the Chatham County Mass Feeding Taskforce. • Coordinate the release of public information regarding the locations of mass feeding sites with ESF-15 External Affairs.
Georgia Department of Agriculture	• Provide support to ESF-11 Agriculture/Food and Water through the provision of technical assistance, available resources and support for pre-event and post-event animal rescue and evacuations. • Provide support staffing to the EOC for the following position as necessary: ➢ EOC Liaison

Supporting Agency	Actions
Salvation Army	• Provide resources to support mass feeding operations. • Participate in the Chatham County Mass Feeding Taskforce. • Provide canteen services to members of Chatham County's Critical Workforce and supporting emergency responders.
Savannah Chatham County Public School System	• Provide support to mass feeding operations through utilization of equipment, facilities and necessary resources. • Participate in the Chatham County Mass Feeding Taskforce. • Coordinate the release of public information regarding the locations of mass feeding sites with ESF-15 External Affairs. • Provide support staffing to the EOC for the following positions: ➢ SCCPSS Transportation ➢ SCCPSS Police and Facilities
Savannah Food Truck Association	• Identify and secure food items to support mass feeding operations. • Provide certified food truck vendors to support the overall feeding strategy. • Participate in the Chatham County Mass Feeding Taskforce. • Provide for the proper storage of food provided during the emergency or disaster event.

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Emergency Support Function – 12
Energy / Utilities



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RECORD OF CHANGES

Each update or change to the plan should be tracked. The record of changes, usually in table format, contains, at a minimum, a change number, the date of the change, the name of the person who made the change, and a summary of the change. Other relevant information could be considered.

Change #	Date	Part Affected	Date Posted	Who Posted
1	12/127/24	Updated for 2025	12/27/24	Mathews

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Agency	Name, Title	Date of Delivery	Copies

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ESF – 12 Energy / Utilities

ESF COORDINATOR:
Chatham County Public Works Department

SUPPORT AGENCIES:
Atlanta Gas Light
Chatham Emergency Management Agency
City of Bloomingdale Public Works Department
City of Garden City Public Works Department
City of Pooler Public Works Department
City of Port Wentworth Public Works Department
City of Savannah Infrastructure and Development
City of Savannah Sanitation Department
City of Tybee Island Public Works Department
Georgia Power
Town of Thunderbolt Public Works Department
United States Army Corps of Engineers

INTRODUCTION

The emergency support function of public works and engineering involves direction and coordination, operations, and follow-through during an emergency or disaster.

Purpose

ESF-12 Energy / Utilities supports the EOP and complies with standards set forth in the National Response Framework. This document provides guidance to prepare for, respond to, recover from, and mitigate the effects of a disaster or emergency on Chatham County's energy and utility networks. This however is not a tactical response document. ESF-12 is designed to ensure seamless integration of key energy and utility resources to manage fuel shortages, power outages, and other associated activities to address an emergency or disaster.

Scope

ESF-12 acts to meet the energy and utility essential elements of information needs of operations to include gas, electric and other infrastructure systems in an emergency or a disaster. This ESF is structured to coordinate the provision of emergency supply and transportation of fuel and the provision of emergency power to support immediate

response operations, as well as restoring the normal supply of power. This ESF will work closely with local and state agencies, energy suppliers and distributors.

CONCEPT OF OPERATIONS

General

During an emergency or disaster, ESF-12 may be activated to support operations and assist with the development of a common operating picture. The scope, scale and magnitude of the threat/incident will dictate which support agencies will be requested for the support of ESF-12 Energy / Utilities in the EOC.

Preparedness

a. Estimate logistical requirements (personnel, supplies, equipment, facilities, and communications) during the planning process and through exercises.

b. Develop and maintain resource lists to support ESF-12 operations utilizing both public and private sector entities.

c. Pursue Memorandums of Agreement and/or contracts to support ESF-12 resource needs.

d. Establish and maintain contact with the state and adjacent county public works officials.

e. In coordination with public and private utilities, establish priorities to repair damaged energy systems and coordinate the provision of temporary, alternate, or interim sources of natural gas supply petroleum fuels, and electric power.

f. Participate in exercises and training.

g. Ensure all ESF-12 personnel integrate NIMS principles.

Response

a. Analyze affected areas to determine operational priorities and emergency repair procedures with utility field personnel. Provide status of energy resources to the EOC Operations Group as required.

b. In coordination with public and private utilities, prioritize rebuilding processes to restore utilities in affected areas.

c. Locate fuel for emergency operations.

d. Activate contracts to support operations, as needed.

e. Coordinate with GEMA for the use of state assets.

f. Report the locations of damage to utility infrastructure, degree of damage, and other available information to the EOC.

g. Maintain continual status of energy systems and the progress of restoration.

h. Recommend energy conservation measures, as needed.

i. Coordinate emergency information for public release through ESF-15.

j. Document matters that may be needed for inclusion in briefings, situation reports and action plans.

Recovery

a. Maintain coordination with all supporting agencies and organizations on operational priorities and emergency repair and restoration.

b. Continue to provide energy emergency information, education and conservation guidance to the public in coordination with ESF-15.

c. Coordinate the repair and restoration of energy infrastructure.

d. Ensure that ESF-12 team members and/or their agencies maintain appropriate records of costs incurred during the incident.

Mitigation

a. Support and plan for mitigation measures.

Organization

The County EOC will be activated to coordinate a multijurisdictional level response.

Representatives from the applicable ESF-12 Agencies may be assigned to the EOC or alternate location, as best suited to meet incident needs and coordinate operations.

ESF Role Aligned to Core Capabilities

The following table lists the response capability that ESF-12 most directly supports, along with the related ESF-12 actions supporting the capability.

Core Capability	ESF-12 Public Works and Engineering
Infrastructure Systems	• Stabilize critical infrastructure functions, minimize health and safety threats, and efficiently restore and revitalize systems and services to support a viable, resilient community. This includes, among other things: ➢ Energy network assessment ➢ Restoration of energy services

Responsibilities

Coordinating Agency	Actions
Chatham County Public Works Department	• Coordinate with applicable energy providers to provide current status of operations, future actions and any resource gaps • Activate contracts to support operations, as necessary • Request additional support, as necessary • Conduct impact assessments within affected areas • Coordinate with municipal public works departments • Provide EOC Staffing for the following EOC positions as needed: ➢ ESF-3 & ESF-12 • Develop plans and procedures to support emergency or disaster operations • Coordinate ESF meetings to ensure constant state of readiness

Supporting Agency	Actions
All Supporting Agencies	• Immediately following an emergency or disaster, assess the overall status of the energy infrastructure within the area of responsibility, determine potential needs & resources, report status to ESF-12 Coordinator • Attend ESF meetings to ensure planning and coordination functions are carried out to support this ESF • Provide additional resources as available to support ESF-12 response and recovery efforts • Develop appropriate plans, policies, procedures, mutual aid agreements, and other supporting documentation as needed to facilitate execution of responsibilities to this ESF • Participate in drills, exercises, and other preparedness events to measure the Agency's readiness to support this ESF • Prepare to support the Emergency Operations Center as needed • Document disaster related activities related to this ESF • Prepare to collect and maintain records of expenditures and document resource utilized during response and recovery operations
Atlanta Gas Light	• Provide status of infrastructure to the EOC, as needed
Chatham Emergency Management Agency	• Provide ESF-12 Coordinator with guidance and support required to accomplish assigned tasks

Supporting Agency	Actions
City of Bloomingdale Public Works Department	• Assess the need for and prioritize the deployment of services based on available resources and critical needs • Repair/maintain appropriate public works infrastructures • Coordinate debris operations within appropriate municipality • Coordinate priority re-entry route clearance within appropriate municipality • Activate contracts to support operations, as necessary • Request additional support, as necessary
City of Garden City Public Works Department	• Assess the need for and prioritize the deployment of services based on available resources and critical needs • Repair/maintain appropriate public works infrastructures • Coordinate debris operations within appropriate municipality • Coordinate priority re-entry route clearance within appropriate municipality • Activate contracts to support operations, as necessary • Request additional support, as necessary
City of Pooler Public Works Department	• Assess the need for and prioritize the deployment of services based on available resources and critical needs • Repair/maintain appropriate public works infrastructures • Coordinate debris operations within appropriate municipality • Coordinate priority re-entry route clearance within appropriate municipality • Activate contracts to support operations, as necessary • Request additional support, as necessary
City of Port Wentworth Public Works Department	• Assess the need for and prioritize the deployment of services based on available resources and critical needs • Repair/maintain appropriate public works infrastructures • Coordinate debris operations within appropriate municipality • Coordinate priority re-entry route clearance within appropriate municipality • Activate contracts to support operations, as necessary • Request additional support, as necessary
City of Savannah Infrastructure and Development	• Assess the need for and prioritize the deployment of services based on available resources and critical needs • Repair/maintain appropriate public works infrastructures • Coordinate debris operations within appropriate municipality • Coordinate priority re-entry route clearance within appropriate municipality.

Supporting Agency	Actions
City of Savannah Infrastructure and Development (continued)	• Activate contracts to support operations, as necessary • Request additional support, as necessary
City of Savannah Sanitation Division	• Assess the need for and prioritize the deployment of services based on available resources and critical needs • Repair/maintain appropriate public works infrastructures • Coordinate debris operations within appropriate municipality • Coordinate priority re-entry route clearance within appropriate municipality
City of Tybee Island Public Works Department	• Assess the need for and prioritize the deployment of services based on available resources and critical needs • Repair/maintain appropriate public works infrastructures • Coordinate debris operations within appropriate municipality • Coordinate priority re-entry route clearance within appropriate municipality • Activate contracts to support operations, as necessary • Request additional support, as necessary
Georgia Power	• Provide status of power infrastructure • Coordinate power restoration, as needed • Render downed powerlines safe to be cleared from roadways • Support county and local governments with resources and technical support, as needed • Provide EOC Staffing for the following EOC position as needed: ➢ Liaison Officer
Town of Thunderbolt Public Works Department	• Assess the need for and prioritize the deployment of services based on available resources and critical needs • Repair/maintain appropriate public works infrastructures • Coordinate debris operations within appropriate municipality • Coordinate priority re-entry route clearance within appropriate municipality • Activate contracts to support operations, as necessary • Request additional support, as necessary
United States Army Corps of Engineers	• Provide EOC Staffing for the following EOC position as needed: ➢ Liaison Officer

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Emergency Support Function – 13
Law Enforcement



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RECORD OF CHANGES

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1	01/09/25	Updated for 2025	01/09/25	Mathews

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ESF – 13 Law Enforcement

ESF COORDINATOR:
Chatham County Police Department

SUPPORT AGENCIES:
Chatham County Sheriff's Office
Chatham Emergency Management Agency
Chatham-Savannah Counter Narcotics Team
City of Bloomingdale Police Department
City of Garden City Police Department
City of Pooler Police Department
City of Port Wentworth Police Department
City of Tybee Island Police Department
CSX Police Department
Federal Protective Service
Georgia Bureau of Investigations
Georgia Port Authority
Georgia Southern University Police Department
Georgia State Patrol
Georgia Tech Police
Hunter Army Airfield Police Department
Savannah Chatham County Public School System Police Department
Savannah Hilton-Head International Airport Police Department
Savannah Police Department
Savannah State University Police Department
Savannah Tech Police Department
Town of Thunderbolt Police Department
U.S. Coast Guard/Marine Safety Unit
U.S. Customs and Border Protection
U.S. Transportation Security Administration

INTRODUCTION

The emergency support function of law enforcement involves direction and coordination, operations, and follow-through during an emergency or disaster.

Purpose

ESF-13 Law Enforcement Annex supports the EOP and complies with standards set forth in the National Response Framework. This document provides guidance to prepare for, respond to, recover from, and mitigate the effects of a disaster or emergency on Chatham County. This however is not a tactical response document. ESF-13 Law Enforcement is designed to ensure seamless integration of law enforcement resources and information for preparedness, response, recovery, and mitigation activities to address an emergency or disaster.

Scope

ESF-13 acts to meet the law enforcement and essential elements of information needs of operations to include disturbances, civil unrest and curfews in emergency or a disaster. This ESF is structured to oversee public safety needs of the community.

CONCEPT OF OPERATIONS

General

During an emergency or disaster, ESF-13 may be activated to support operations and assist with the development of a common operating picture. The scope, scale and magnitude of the threat/incident will dictate which support agencies will be requested for the support of ESF-13 Law Enforcement in the EOC.

Preparedness

a. Analyze hazards and determine law enforcement support requirements including the need to preposition necessary assets.

b. Develop and maintain a listing of all available resources.

c. Identify agencies, organizations and individuals with the capability to support operations.

d. Establish and maintain liaison with local, state and federal law enforcement agencies.

e. Coordinate the development of MOA's with appropriate agencies/organizations for the provision of law enforcement personnel and resources to support an emergency or disaster response.

f. Establish procedures for the identification, location, removal and disposition of the deceased.

g. Participate in and/or conduct training and exercises to evaluate capabilities to support this ESF.

h. Ensure all ESF-13 personnel integrate NIMS principles.

Response

a. Secure evacuated areas, including safeguarding critical facilities and controlling entry and exit points to the disaster area as necessary.

b. Activate existing MOA's with supporting entities as appropriate.

c. Coordinate with ESF-5 Emergency Management/Planning to request additional resources as necessary.

d. Provide security to the EOC.

e. Provide warning and communications assistance in support of ESF-2 Communications.

f. Provide support to county evacuation plans through the provision of traffic control, communications, area patrols and security for shelter locations.

g. Pre-position response resources when it is apparent that resources may be necessary.

h. Coordinate with law enforcement agencies responding from an outside jurisdiction.

i. Control vehicle and individual access to restricted areas.

j. Coordinate with ESF-15 External Affairs for the collection and dissemination of necessary public information.

Recovery

a. Continue operations as necessary to ensure the protection of life and property.

b. Maintain records of expenditures and document resources utilized during recovery.

c. Provide assistance during the return of evacuees.

d. Inventory lost or damage equipment and record any personnel injuries or equipment accidents.

e. Conduct reviews of Law Enforcement operations with teams involved to improve future responses.

Mitigation

a. Support and plan for mitigation measures.

Organization

The County EOC will be activated to coordinate a multijurisdictional level response.

Representatives from the applicable ESF-13 Agencies may be assigned to the EOC or alternate location, as best suited to meet incident needs and coordinate operations.

ESF Role Aligned to Core Capabilities

The following table lists the response capability that ESF-13 most directly supports, along with the related ESF-13 actions supporting the capability.

Core Capability	ESF-13 Law Enforcement
On-scene Security, Protection and Law Enforcement	• Ensure a safe and secure environment through law enforcement and related security and protection operations for people and communities located within affected areas and also for response personnel engaged in lifesaving and life-sustaining operations. This includes, among other things: ➢ Provide Warnings and Communications ➢ Conduct Area Patrols ➢ Ensure Safety and Security ➢ Conduct Traffic Control

Responsibilities

Coordinating Agency	Actions
Chatham County Police Department	• Conduct a situational assessment and prioritize response actions. • Identify and facilitate resolution of area responsibility among supporting agencies. • Establish and maintain communications with municipal liaisons to collect and relay pertinent information. • Provide technical assistance on policy issues. • Coordinate with other ESFs to consolidate reports and eliminate the duplication of efforts. • Coordinate with each support agency through meetings to ensure planning functions are carried out to support this ESF. • Serve as a liaison between the EOC and state operations center concerning law enforcement activities. • Provide assistance to ESF-15 External Affairs regarding the dissemination of public information concerning law enforcement activities.

Coordinating Agency	Actions
	• Provide support staffing to the EOC for the following positions: ➢ Public Safety Branch ➢ ESF-13 Law Enforcement ➢ EOC Security

Supporting Agency	Actions
All Support Agencies	• Attend ESF meetings to ensure planning and coordination functions are carried out to support this ESF. • Identify Agency staff representatives to support this ESF and other operational practices during emergency and disaster operations. • Ensure the presence of resources (human and physical) are in sufficient numbers to support the Agency's responsibilities to this ESF. • Conduct recovery and restoration tasks in coordination with the EOC/RCC and federal assistance program guidance. • Annually evaluate Critical Workforce staffing needs and report sheltering and/or equipment staging locations as requested. • Coordinate pertinent disaster recovery information with the County Joint Information Center (JIC). • Identify damages and/or losses and prepare an action plan for recovery activities.
All Supporting Agencies (Continued)	• Maintain records of expenditures and document resources utilized during response and recovery operations. • Identify damages and/or losses and prepare an action plan for recovery activities. • Develop appropriate Plans, Procedures, Mutual Aid Agreements, Checklists, Go-Kits and other supporting documentation as needed to facilitate execution of the Agency's responsibilities to this ESF. • Prepare to support the EOC as necessary. • Participate in drills, exercises and other preparedness events to evaluate the Agency's readiness to support this ESF. • Ensure Agency staff maintain NIMS compliance and report compliance measurements annually as requested
Chatham County Sheriff's Office	• Provide assistance through the allocation of available resources and personnel as appropriate

Supporting Agency	Actions
	• Participate in planning functions to provide expertise pertaining to agency roles and responsibilities.
Chatham Emergency Management Agency	• Coordinate a situational assessment to determine incident priorities in support of law enforcement operations.
Chatham – Savannah Counter Narcotics Team	• Provide assistance through the allocation of available resources and personnel as appropriate • Participate in planning functions to provide expertise pertaining to agency roles and responsibilities. • Provide support staffing to the EOC for the following positions: ➢ Public Safety Branch ➢ ESF-13 Law Enforcement
City of Bloomingdale Police Department	• Provide assistance through the allocation of available resources and personnel as appropriate • Participate in planning functions to provide expertise pertaining to agency roles and responsibilities.
City of Garden City Police Department	• Provide assistance through the allocation of available resources and personnel as appropriate • Participate in planning functions to provide expertise pertaining to agency roles and responsibilities.
City of Pooler Police Department	• Provide assistance through the allocation of available resources and personnel as appropriate • Participate in planning functions to provide expertise pertaining to agency roles and responsibilities.
City of Port Wentworth Police Department	• Provide assistance through the allocation of available resources and personnel as appropriate
City of Port Wentworth Police Department (Continued)	• Participate in planning functions to provide expertise pertaining to agency roles and responsibilities.
City of Tybee Island Police Department	• Provide assistance through the allocation of available resources and personnel as appropriate • Participate in planning functions to provide expertise pertaining to agency roles and responsibilities.
CSX Police Department	• Provide assistance through the allocation of available resources and personnel as appropriate • Participate in planning functions to provide expertise pertaining to agency roles and responsibilities.
Federal Protective Service	• Provide assistance through the allocation of available resources and personnel as appropriate • Participate in planning functions to provide expertise pertaining to agency roles and responsibilities.
Georgia Bureau of Investigations	• Provide assistance through the allocation of available resources and personnel as appropriate

Supporting Agency	Actions
	• Participate in planning functions to provide expertise pertaining to agency roles and responsibilities.
Georgia Port Authority	• Provide assistance through the allocation of available resources and personnel as appropriate • Participate in planning functions to provide expertise pertaining to agency roles and responsibilities. • Provide support staffing to the EOC for the following position: ➢ GPA LNO
Georgia Southern University Police Department	• Provide assistance through the allocation of available resources and personnel as appropriate • Participate in planning functions to provide expertise pertaining to agency roles and responsibilities.
Georgia State Patrol	• Provide assistance through the allocation of available resources and personnel as appropriate • Participate in planning functions to provide expertise pertaining to agency roles and responsibilities. • Provide support staffing to the EOC for the following position: ➢ Georgia State Patrol
Georgia Tech Police	• Provide assistance through the allocation of available resources and personnel as appropriate.
Georgia Tech Police (Continued)	• Participate in planning functions to provide expertise pertaining to agency roles and responsibilities.
Hunter Army Airfield Police Department	• Provide assistance through the allocation of available resources and personnel as appropriate • Participate in planning functions to provide expertise pertaining to agency roles and responsibilities.
Savannah Chatham County Public School System Police Department	• Provide assistance through the allocation of available resources and personnel as appropriate • Participate in planning functions to provide expertise pertaining to agency roles and responsibilities. • Provide support staffing to the EOC for the following Positions: ➢ SCCPSS Police and Facilities

Supporting Agency	Actions
Savannah Hilton-Head International Airport Police Department	• Provide assistance through the allocation of available resources and personnel as appropriate • Participate in planning functions to provide expertise pertaining to agency roles and responsibilities.
Savannah Police Department	• Provide assistance through the allocation of available resources and personnel as appropriate • Participate in planning functions to provide expertise pertaining to agency roles and responsibilities.
Savannah State University Police Department	• Provide assistance through the allocation of available resources and personnel as appropriate • Participate in planning functions to provide expertise pertaining to agency roles and responsibilities.
Savannah Tech Police Department	• Provide assistance through the allocation of available resources and personnel as appropriate • Participate in planning functions to provide expertise pertaining to agency roles and responsibilities.
Town of Thunderbolt Police Department	• Provide assistance through the allocation of available resources and personnel as appropriate • Participate in planning functions to provide expertise pertaining to agency roles and responsibilities.
U.S. Coast Guard / Marine Safety Unit	• Provide assistance through the allocation of available resources and personnel as appropriate • Participate in planning functions to provide expertise pertaining to agency roles and responsibilities.
U.S. Customs and Border Protection	• Provide assistance through the allocation of available resources and personnel as appropriate • Participate in planning functions to provide expertise pertaining to agency roles and responsibilities.
U.S. Transportation Security Administration	• Provide assistance through the allocation of available resources and personnel as appropriate • Participate in planning functions to provide expertise pertaining to agency roles and responsibilities.

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Emergency Support Function – 14
Private Sector



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RECORD OF CHANGES

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Change #	Date	Part Affected	Date Posted	Who Posted
1	12/2024	Document Update	12/2024	C. Sawyer

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ESF – 14 Private Sector

ESF COORDINATOR:
Chatham Emergency Management Agency
Savannah Economic Development Authority

SUPPORT AGENCIES:
Buy Local Savannah
Greater Savannah Black Chamber of Commerce
Metropolitan Savannah Area Hispanic Chamber of Commerce
Pooler Chamber of Commerce
Port Wentworth Chamber of Commerce
Savannah Chamber of Commerce
Savannah Downtown Business Association
Savannah Waterfront Association
South of DeRenne Avenue
Tourism Leadership Council – Savannah

INTRODUCTION

The emergency support function of private sector involves direction and coordination, operations, and follow-through during an emergency or disaster.

Purpose

ESF-14 Private Sector Annex supports the EOP and complies with standards set forth in the National Response Framework. This document provides guidance to prepare for, respond to, recover from, and mitigate the effects of a disaster or emergency on Chatham County's Private Sector community. This, however, is not a tactical response document. ESF-14 Private Sector is designed to ensure communication, resources and information for preparedness, response, recovery, and mitigation activities to address an emergency or disaster are occurring between both the public and private sectors.

Scope

ESF-14 acts to assist business and industry in disaster preparedness, response, mitigation and recovery actions in response to an emergency or disaster.

CONCEPT OF OPERATIONS

General

During an emergency or disaster, ESF-14 may be activated to support operations and assist with the development of a common operating picture. The scope, scale and magnitude of the threat/incident will dictate staffing for the Private Sector Liaison position within the Emergency Operations Center (EOC).

Preparedness

a. Develop strategies in coordination with CEMA to incorporate private sector/businesses into ESF-14.

b. Conduct outreach activities for private sector preparedness, such as a lessons learned workshop.

c. Inform businesses of re-entry procedures. Encourage registration for re-entry permits through the Georgia Emergency Management Agency/ Homeland Security.

d. Determine which industries may be willing to assist with disaster operations.

e. Develop necessary MOU's and MOA's with identified membership organizations to support disaster response and recovery operations.

f. Coordinate with identified organizations to maintain membership lists of commercial and industrial suppliers of services and products to include points of contact associated with business and industry related functions.

g. Participate in training and/or exercises on an annual basis. Topics should include business continuity and private sector plan development for natural and man-made disasters.

h. Ensure all ESF-14 personnel integrate NIMS principles, where possible.

Response

a. Facilitate information sharing between government entities and private sector stakeholders.

b. Amplify emergency response messaging and communicate risk/vulnerability to business and industry stakeholders.

c. Assist the EOC with developing protection and response priorities for private sector critical lifelines and other economic/business centers.

d. Coordinate with business community needing assistance, as well as those that can donate support and how to receive support.

e. Assist with facilitation of in-kind and monetary donations from businesses.

Recovery

a. Assist EOC with restoration and recovery priorities and plans for private sector critical lifelines and other economic and business sectors.

b. Assist EOC with gathering damage assessment information for private sector organizations.

c. Amplify recovery messaging and communicate recovery resources (Small Business Administration – SBA) to business and industry stakeholders.

d. Coordinate with business community needing assistance, as well as those that can donate support and how to receive support.

Mitigation

a. Support and plan for mitigation measures.

Organization

The County EOC will be activated to coordinate a multijurisdictional level response.

Representatives from the applicable ESF-14 Agencies may be assigned to the EOC or alternate location, as best suited to meet incident needs and coordinate operations.

ESF Role Aligned to Core Capabilities

The following table lists the response capability that ESF-14 most directly supports, along with the related ESF-14 actions supporting the capability.

Core Capability	ESF-14 Private Sector
Community Resilience	• Enable the recognition, understanding, communication of, and planning for risk and empower individuals and communities to make informed risk management decisions necessary to adapt to, withstand, and quickly recover from future incidents. This includes, but is not limited to: ➢ Business Continuity ➢ Operational Coordination ➢ Hazard Mitigation
Risk and Disaster Resilience Assessment	• Assess risk and disaster resilience so that decision makers, responders, and community members can take informed action to reduce their entity's risk and increase their resilience. This includes, but is not limited to: ➢ Hazard Mitigation ➢ Business Continuity

Responsibilities

Coordinating Agency	Actions
Savannah Economic Development Authority	• Coordinate with private sector businesses and provide information to the EOC. • Coordinate the identification of businesses and industry needing immediate assistance. • Provide input on operational needs for restoration of business and industry during an emergency. • Provide virtual support to the EOC, if requested.
Chatham Emergency Management Agency	• Coordinate ESF-14 administrative, management, planning, training and preparedness activities. • Coordinate with ESF-14 stakeholders to provide pertinent emergency information. • Develop plans and procedures to support emergency or disaster operations.

Supporting Agency	Actions
All Supporting Agencies	• Assist in the identification of businesses and industry needing immediate assistance. • Coordinate with business community needing assistance to amplify messaging from government sources. • Collect information and refer private sector organizations that are interested in donating either in-kind or monetary donations to non-profit organizations providing relief efforts. • Collaborate with the business community to create local employment opportunities that accelerate disaster recovery efforts. For example, encourage private sector partnerships to prioritize hiring displaced workers. • Develop appropriate plans, policies, procedures, mutual aid agreements, and other supporting documentation, as needed, to facilitate execution of responsibilities to this ESF. • Participate in training, exercises, and other preparedness events to support the readiness of this ESF. • Prepare to support the Emergency Operations Center virtually, as needed. • Document disaster-related activities in alignment with this ESF to ensure eligibility for federal public assistance. Detailed records of actions, such as resource use, personnel hours, and expenditures, are critical for securing reimbursement through programs like FEMA's Public Assistance Program. This documentation promotes

Supporting Agency	Actions
All Supporting Agencies (continued)	• transparency, expedites funding, offsets financial burdens, and strengthens long-term resilience by demonstrating compliance with federal requirements.

Emergency Support Function – 15
External Affairs



2025

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ESF – 15 External Affairs

ESF COORDINATOR:
Chatham County Public Information Office

SUPPORT AGENCIES:
Chatham County Health Department
Chatham County Police Department
Chatham County Sheriff's Office
Chatham Emergency Management Agency
Chatham Emergency Services
Chatham-Savannah Counter Narcotics Team
City of Bloomingdale
City of Garden City
City of Pooler
City of Port Wentworth
City of Savannah
City of Tybee Island
Georgia Port Authority
Georgia Southern University – Armstrong Campus Police Department
Georgia State Patrol
Hunter Army Airfield Police Department
Memorial University Medical Center
Savannah Area Chamber of Commerce
Savannah Chatham County Public School System
Savannah Hilton Head International Airport
Savannah State University Police Department
Savannah Technical College Police Department
South University
St. Joseph/Candler Hospital
Town of Thunderbolt
U.S. Army Corps of Engineers

INTRODUCTION

The emergency support function of External Affairs involves direction and coordination, operations, and follow-through during an emergency or disaster.

Purpose

ESF-15 External Affairs provides operational guidance to departments/organizations that are assigned to work within this ESF. The mission of ESF-15 is to ensure the provision of coordinated, accurate and timely information delivery to affected audiences, including members of government, local news media, the private sector and the general populace during an emergency or disaster event. This however is not a tactical response document. ESF-15 External Affairs establishes a framework for the prevention of inaccurate information dissemination, rumor control and the identification of necessary actions to be taken by the general public.

Scope

ESF-15 acts to meet the External Affairs and essential elements of information needs of operations through the establishment of a countywide public information program that establishes a unified voice across organizations and ensures the timely and accurate delivery of public information.

CONCEPT OF OPERATIONS

General

During an emergency or disaster, ESF-15 may be activated to support operations and assist with the development of a common operating picture. The scope, scale and magnitude of the threat/incident will dictate which support agencies will be requested for the support of ESF-15 External Affairs in the EOC.

Preparedness

a. Establish and maintain a media directory.

b. Develop a public information program to educate the public regarding the effects of common emergency and disaster situations. This includes things such as the development of an emergency go-kit, understanding their evacuation zone and the explanation of watches/warnings.

c. Establish plans/procedures to conduct a multi-agency/jurisdictional coordinated public information program during emergencies or disasters, to include the establishment of a Joint Information Center (JIC).

d. Establish plans/procedures for the coordination of public information with local, state, national and international media outlets before, during and after an emergency or disaster event.

e. Conduct training to educate news media outlets that ESF-15 External Affairs serves as the primary source for information during an emergency or disaster event.

f. Establish procedures to ensure a unified media release is utilized by support entities.

g. Designate a liaison to communication with local, state and federal governments and ensure proper handling of inquiries.

h. Support disaster public awareness initiatives through dissemination of information, news articles, Public Service Announcements and presentation of audio-visual materials.

i. Develop procedures to organize and operate a media briefing area and/or a JIC.

j. Develop and maintain pre-scripted emergency alert messages, news releases and public service announcements for all hazards to include tropical storm and hurricane information, rainwater flooding, storm surge watches/warnings and tornado watches/warnings.

k. Establish communication resources to provide people with sensory disability (e.g. visually and hearing impaired) and non-English speaking persons with critical information pertaining to the emergency or disaster event.

l. Ensure agencies and/or organizations that have functional support responsibilities coordinate the dissemination of essential public information with ESF-15.

m. Develop a briefing and reporting system to include an EOC briefing, situation report and public information request format in conjunction with ESF-5 Planning/Emergency Management.

n. Ensure necessary reporting information and formats are shared with agencies and/or organizations identified to have a primary functional support responsibility.

o. Ensure all ESF-15 personnel integrate NIMS principles.

Response

a. Maintain a system to ensure accurate dissemination of relevant information to include the location, type of hazard, extent of damage, casualties, operational shelters, evacuation routes and other identified protective actions.

b. Establish a timeframe for the notification and dissemination of information to local media outlets regarding an emergency or disaster event.

c. Establish procedures for the notification of entities whose personnel, equipment or other necessary resources may be utilized to support response and recovery operations.

d. Ensure timely and accurate emergency alert messages and news releases are disseminated to the general public utilizing common language and terminology.

e. Ensure the delivery of essential public information to identified vulnerable populations.

f. Execute a multi-agency/jurisdiction coordinated public information program to include the establishment of a Joint Information Center.

g. Establish an area for media briefings and/or press conferences and conduct briefings in a timely manner.

h. Identify appropriate spokespersons from local government, agencies and/or organizations and ensure the establishment of media responsibilities.

i. Ensure the timely and continuous dissemination of incident information updates throughout the emergency or disaster event.

j. Provide advanced media releases to the State Operations Center.

k. Prepare EOC briefings and situation reports for mapping to keep local government and emergency management officials, state and federal agencies/organizations informed of the severity and magnitude of the incident.

l. Provide technical assistance information and analysis upon request of the CEMA Director or EOC Manager.

m. Arrange and coordinate supplemental public information operations when necessary and as resources allow.

n. Coordinate information dissemination with other jurisdictions that share the media market.

o. Ensure the proper recording and tracking of information that may be necessary for a disaster declaration.

Recovery

a. Continue provision of public safety and other necessary assistance information throughout the recovery phase.

b. Process and disseminate disaster welfare and family reunification information.

Mitigation

a. Support and plan for mitigation measures.

Organization

The County EOC will be activated to coordinate a multijurisdictional level response.

Representatives from the applicable ESF-15 Agencies may be assigned to the EOC or alternate location, as best suited to meet incident needs and coordinate operations.

ESF Role Aligned to Core Capabilities

The following table lists the response capability that ESF-15 most directly supports, along with the related ESF-15 actions supporting the capability.

Core Capability	ESF-15 External Affairs
Public Information and Warning	• Deliver coordinated, prompt, reliable and actionable information to the whole community through the use of clear, consistent, accessible, and culturally and linguistically appropriate methods to effectively relay information regarding any threat or hazard, as well as the actions being taken and the assistance being made available, as appropriate.

Responsibilities

Coordinating Agency	Actions
Chatham County Public Information Office	• Establish a protocol for prioritizing response activities. • Identify and plan for public education campaigns throughout preparedness, response and recovery phases. • Ensure coordination with other ESFs for the timely and accurate dissemination of public information. • Coordinate with the CEMA Director to identify key messages that the public must be aware of and ensure regular communications throughout the incident. • Coordinate public information throughout the incident beginning with the initial notification and continuing into the final recovery information. • Coordinate media interviews and media inquiries. • Maintain contact with municipal public information officers to ensure the collection and sharing of information.

Coordinating Agency	Actions
Chatham County Public Information Office (Continued)	• Coordinate social media efforts to ensure accurate information is released, rumor monitoring is being conducted and timely information is being disseminated. • Maintain resources to establish a Joint Information Center if needed during an emergency or disaster event. • Maintain an updated contact list for ESF-15. • Coordinate and maintain the Chatham County Public Information Officers Association. • Provide support staffing to the EOC for the following position: ➢ ESF-15 External Affairs

Supporting Agency	Actions
All Supporting Agencies	• Attend scheduled meetings to ensure planning functions are carried out to support this ESF. • Identify Agency staff representatives to support this ESF and other operational practices during emergency and disaster operations. • Ensure the presence of resources (human and physical) are in sufficient numbers to support the Agency's responsibilities to this ESF. • Conduct recovery and restoration tasks in coordination with the EOC/RCC and federal assistance program guidance. • Annually evaluate Critical Workforce staffing needs and report sheltering and/or equipment staging locations as requested. • Coordinate pertinent disaster recovery information with the County Joint Information Center (JIC). • Identify damages and/or losses. • Maintain records of expenditures and document resources utilized during response and recovery operations. • Develop appropriate Plans, Procedures, Mutual Aid Agreements, Checklists, Go-Kits and other supporting documentation as needed to facilitate execution of the Agency's responsibilities to this ESF. • Prepare to support the EOC as necessary. • Participate in drills, exercises and other preparedness events to evaluate the Agency's readiness to support this ESF. • Ensure Agency staff maintain NIMS compliance and report compliance measurements annually as requested.

Supporting Agency	Actions
Chatham County Health Department	• Provide support to ensure a unified message is delivered to the public. • Provide logistical and resource support during the establishment of a Joint Information Center. • Provide logistical and resource support if requested during a smaller event. • Provide support staffing to the EOC for the following positions: ➢ Health and Human Services Branch ➢ ESF-8 Health and Medical
Chatham County Police Department	• Provide support to ensure a unified message is delivered to the public. • Provide logistical and resource support during the establishment of a Joint Information Center. • Provide logistical and resource support if requested during a smaller event. • Provide support staffing to the EOC for the following positions: ➢ Public Safety Branch ➢ ESF-13 Law Enforcement ➢ EOC Security
Chatham County Sheriff's Office	• Provide support to ensure a unified message is delivered to the public. • Provide logistical and resource support during the establishment of a Joint Information Center. • Provide logistical and resource support if requested during a smaller event.
Chatham Emergency Management Agency	• Conduct a situational assessment and determine the need for public information support. •
Chatham Emergency Services	• Provide support to ensure a unified message is delivered to the public. • Provide logistical and resource support during the establishment of a Joint Information Center. • Provide logistical and resource support if requested during a smaller event.
Chatham Emergency Services (Continued)	• Provide support staffing to the EOC for the following positions:

Supporting Agency	Actions
	➢ Emergency Medical Services ➢ ESF-4 Firefighting
Chatham-Savannah Counter Narcotics Team	• Provide support to ensure a unified message is delivered to the public. • Provide logistical and resource support during the establishment of a Joint Information Center. • Provide logistical and resource support if requested during a smaller event. • Provide support staffing to the EOC for the following positions: ➢ Public Safety Branch ➢ ESF-13 Law Enforcement
City of Bloomingdale	• Provide support to ensure a unified message is delivered to the public. • Provide logistical and resource support during the establishment of a Joint Information Center. • Provide logistical and resource support if requested during a smaller event.
City of Garden City	• Provide support to ensure a unified message is delivered to the public. • Provide logistical and resource support during the establishment of a Joint Information Center. • Provide logistical and resource support if requested during a smaller event.
City of Pooler	• Provide support to ensure a unified message is delivered to the public. • Provide logistical and resource support during the establishment of a Joint Information Center. • Provide logistical and resource support if requested during a smaller event.
City of Port Wentworth	• Provide support to ensure a unified message is delivered to the public. • Provide logistical and resource support during the establishment of a Joint Information Center. • Provide logistical and resource support if requested during a smaller event.
City of Savannah	• Provide support to ensure a unified message is delivered to the public.

Supporting Agency	Actions
City of Savannah (Continued)	• Provide logistical and resource support during the establishment of a Joint Information Center. • Provide logistical and resource support if requested during a smaller event.
City of Tybee Island	• Provide support to ensure a unified message is delivered to the public. • Provide logistical and resource support during the establishment of a Joint Information Center. • Provide logistical and resource support if requested during a smaller event.
	•
Georgia Port Authority	• Provide support to ensure a unified message is delivered to the public. • Provide logistical and resource support during the establishment of a Joint Information Center. • Provide logistical and resource support if requested during a smaller event. • Provide support staffing to the EOC for the following position: ➢ GPA LNO
Georgia Southern University – Armstrong Campus Police	• Provide support to ensure a unified message is delivered to the public. • Provide logistical and resource support during the establishment of a Joint Information Center. • Provide logistical and resource support if requested during a smaller event.
Georgia State Patrol	• Provide support to ensure a unified message is delivered to the public. • Provide logistical and resource support during the establishment of a Joint Information Center. • Provide logistical and resource support if requested during a smaller event. • Provide support staffing to the EOC for the following position: ➢ Georgia State Patrol
Hunter Army Airfield Police Department	• Provide support to ensure a unified message is delivered to the public. • Provide logistical and resource support during the establishment of a Joint Information Center.

Supporting Agency	Actions
	• Provide logistical and resource support if requested during a smaller event.
Memorial University Medical Center	• Provide support to ensure a unified message is delivered to the public. • Provide logistical and resource support during the establishment of a Joint Information Center. • Provide logistical and resource support if requested during a smaller event. • Provide support staffing to the EOC for the following position: ➢ Hospitals
Savannah Area Chamber of Commerce	• Provide support to ensure a unified message is delivered to the public. • Provide logistical and resource support during the establishment of a Joint Information Center. • Provide logistical and resource support if requested during a smaller event. • Provide support staffing to the EOC for the following position: ➢ Private Sector Business LNO
Savannah Chatham County Public School System	• Provide support to ensure a unified message is delivered to the public. • Provide logistical and resource support during the establishment of a Joint Information Center. • Provide logistical and resource support if requested during a smaller event. • Provide support staffing to the EOC for the following positions: ➢ SCCPSS Transportation ➢ SCCPSS Police and Facilities
Savannah College of Art and Design	• Provide support to ensure a unified message is delivered to the public. • Provide logistical and resource support during the establishment of a Joint Information Center. • Provide logistical and resource support if requested during a smaller event.
Savannah Hilton Head International Airport	• Provide support to ensure a unified message is delivered to the public. • Provide logistical and resource support during the establishment of a Joint Information Center.

Supporting Agency	Actions
	• Provide logistical and resource support if requested during a smaller event. • Provide support staffing to the EOC for the following position: ➢ SHHIA LNO
Savannah State University Police Department	• Provide support to ensure a unified message is delivered to the public. • Provide logistical and resource support during the establishment of a Joint Information Center. • Provide logistical and resource support if requested during a smaller event.
Savannah Technical College Police Department	• Provide support to ensure a unified message is delivered to the public. • Provide logistical and resource support during the establishment of a Joint Information Center. • Provide logistical and resource support if requested during a smaller event.
South University	• Provide support to ensure a unified message is delivered to the public. • Provide logistical and resource support during the establishment of a Joint Information Center. • Provide logistical and resource support if requested during a smaller event.
St. Joseph/Candler Hospital	• Provide support to ensure a unified message is delivered to the public. • Provide logistical and resource support during the establishment of a Joint Information Center. • Provide logistical and resource support if requested during a smaller event. • Provide support staffing to the EOC for the following position: ➢ Hospitals
Town of Thunderbolt	• Provide support to ensure a unified message is delivered to the public. • Provide logistical and resource support during the establishment of a Joint Information Center.
Town of Thunderbolt (Continued)	• Provide logistical and resource support if requested during a smaller event.
U.S. Army Corps of Engineers	• Provide support to ensure a unified message is delivered to the public.

Supporting Agency	Actions
	• Provide logistical and resource support during the establishment of a Joint Information Center. • Provide logistical and resource support if requested during a smaller event. • Provide support staffing to the EOC for the following position: ➢ USACE LNO

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Emergency Support Function – 16
Community Alerting



2025

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ESF – 16 Community Alerting

ESF COORDINATOR:
Chatham Emergency Management Agency

SUPPORT AGENCIES:
Chatham County Information and Communications Systems
Chatham County Public Information Office

INTRODUCTION

The emergency support function of Community Alerting involves direction and coordination, operations, and follow-through during an emergency or disaster.

Purpose

ESF-16 Community Alerting provides operational guidance to departments/organizations that are assigned to work within this ESF. The mission of ESF-16 is to provide a framework of processes, organizational rules, communications protocols and behavioral standards that enable rapid decision making and effective communications during an emergency or disaster event. This however is not a tactical response document. ESF-16 Community Alerting serves as a platform for the coordinated, accurate and timely dissemination of emergency notifications, alerts and warnings prior to, during and after an emergency or disaster event.

Scope

ESF-16 acts to meet the Community Alerting and essential elements of information needs of operations through establishing governance, coordinating with stakeholders, embracing the whole community, developing policies and procedures, delivering actionable messages, conducting training/exercises and correcting misinformation.

CONCEPT OF OPERATIONS

General

During an emergency or disaster, ESF-16 may be activated to support operations and assist with the development of a common operating picture. The scope, scale and magnitude of the threat/incident will dictate which support agencies will be requested for the support of ESF-16 Community Alerting in the EOC.

Preparedness

a. Research and incorporate new technologies for the dissemination of emergency alerts and warnings.

b. Establish and maintain a countywide Emergency Alert System Plan.

c. Develop procedures identifying the proper chain of command for initiating, cancelling, and revoking emergency alerts and for rapidly correcting and updating alert information as additional details become available.

d. Ensure coordination with jurisdictional, state and federal stakeholders regarding the dissemination of alerts and warnings that relate to hazards affecting multiple jurisdictions.

e. Develop a countywide emergency alerting strategy that meets the needs of the whole community, including those with access and functional needs.

f. Obtain authority and tools for accessing federal warning systems as a Collaborative Operating Group via the FEMA Integrated Public Alert and Warning System (IPAWS).

g. Ensure processes are in place to maintain security across all networks, devices, systems and user interfaces.

h. Conduct testing, training and exercises of alert and warning systems with stakeholders on a routine basis to ensure proficiencies.

i. Develop internal safeguards across the entire alert and warning lifecycle, including both human and machine, in order to protect against system misuse and prevent false messaging.

j. Ensure all ESF-16 personnel integrate NIMS principles.

Response

a. Coordinate with ESF-15 External Affairs to develop comprehensive, targeted and specific messaging to ensure that recipients receive actionable communications during an emergency or disaster event.

b. Maintain situational awareness throughout the emergency or disaster event to prevent the spreading of inaccurate information and to provide situational updates and necessary courses of action.

c. Establish communications with stakeholders to ensure the delivery of unified messaging when notifying, alerting or warning the public during an emergency or disaster event.

d. Identify and establish trigger points throughout the emergency or disaster event to eliminate alert and warning issuance and dissemination delays.

e. Utilize all available alerting and warning platforms to confirm the importance of the message and encourage the taking of protective actions.

f. Avoid alerting fatigue by only disseminating messages that pertain to the immediate threat of life, health, public safety, security or property and require immediate action.

Recovery

a. Maintain situational awareness and disseminate alerts and warnings that require immediate action to ensure the safety of life and property.

b. Coordinate with ESF-15 External Affairs to ensure that a unified message is being delivered, appropriate actions are being taken and misinformation is being corrected.

Mitigation

a. Support and plan for mitigation measures.

Organization

The County EOC will be activated to coordinate a multijurisdictional level response.

Representatives from the applicable ESF-16 Agencies may be assigned to the EOC or alternate location, as best suited to meet incident needs and coordinate operations.

ESF Role Aligned to Core Capabilities

The following table lists the response capability that ESF-16 most directly supports, along with the related ESF-16 actions supporting the capability.

Core Capability	ESF-16 Community Alerting
Public Information and Warning	• Deliver coordinated, prompt, reliable and actionable information to the whole community through the use of clear, consistent, accessible, and culturally and linguistically appropriate methods to effectively relay information regarding any threat or hazard, as well as the actions being taken and the assistance being made available, as appropriate. This includes but is not limited to: ➢ Social Media ➢ CEMA Alert

Responsibilities

Coordinating Agency	Actions
Chatham Emergency Management Agency	• Maintain Situational Awareness to ensure the dissemination of emergency alerts and warnings that provide accurate and timely information, provide necessary protective actions and identify potential adverse impacts of the incident. • Develop policies and procedures identifying roles and responsibilities pertaining to the issuance and coordinated dissemination of alerts and warnings to the public. • Ensure whole community inclusion and understand the different methods by which individuals receive, interpret and respond to messages. • Incorporate internal safeguards to protect against system misuse and prevent false messaging. • Conduct regular tests, trainings and/or exercises to determine local capabilities and incorporate lessons learned into future operations. • Monitor misinformation and establish safeguards that err on the side of public safety throughout the emergency or disaster event.

Supporting Agency	Actions
All Supporting Agencies	• Coordinate with each support agency through at least quarterly meetings to ensure planning functions are carried out to support this ESF. • Identify Agency staff representatives to support this ESF and other operational practices during emergency and disaster operations. • Ensure the presence of resources (human and physical) are in sufficient numbers to support the Agency's responsibilities to this ESF. • Conduct recovery and restoration tasks in coordination with the EOC/RCC and federal assistance program guidance. • Annually evaluate Critical Workforce staffing needs and report sheltering and/or equipment staging locations as requested. • Coordinate pertinent disaster recovery information with the County Joint Information Center (JIC). • Identify damages and/or losses and prepare an action plan for recovery activities.

Supporting Agency	Actions
All Supporting Agencies (Continued)	• Maintain records of expenditures and document resources utilized during response and recovery operations. • Develop appropriate Plans, Procedures, Mutual Aid Agreements, Checklists, Go-Kits and other supporting documentation as needed to facilitate execution of the Agency's responsibilities to this ESF. • Prepare to support the EOC as necessary. • Participate in drills, exercises and other preparedness events to evaluate the Agency's readiness to support this ESF. • Ensure Agency staff maintain NIMS compliance and report compliance measurements annually as requested.
Chatham County Information and Communications Services	• Conduct a risk assessment and vulnerability analysis of the overall emergency alert system to include the network, software, and operational procedures to identify and mitigate cyber vulnerabilities, threats and risks. • Evaluate the likelihood and potential impact of cyber threats and prioritize mitigation efforts accordingly. • Develop security policies based upon a user's role. • Maintain policies on the installation and use of programs, devices and internet browsing. • Establish password policies regarding length, combination of letter cases and special characters, and expiration periods that will require users to change passwords on a regular, pre-determined basis. • Utilize multi-factor authentication processes. • Establish a review process of the alert and warning network in order to eliminate dissemination of erroneous information. • Provide support staffing to the EOC for the following position: ➢ Technology and Communications Support
Chatham County Public Information Office	• Ensure coordination for the timely and accurate dissemination of public information. • Coordinate social media efforts to ensure accurate information is released, rumor monitoring is being conducted and timely information is being disseminated. • Identify new and available platforms for the dissemination of emergency public information reflective of the whole community. • Develop and maintain pre-scripted emergency alert and warning messages.

Supporting Agency	Actions
Chatham County Public Information Office (Continued)	• Provide support staffing to the EOC for the following position: ➢ ESF-15 External Affairs

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Emergency Support Function – 17
Damage Assessment



2025

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RECORD OF CHANGES

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Change #	Date	Part Affected	Date Posted	Who Posted
1	01/09/25	Updated for 2025	01/09/25	Mathews

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ESF – 17 Damage Assessment

ESF COORDINATOR:
Chatham County Board of Assessors
Chatham County Building Safety & Regulatory Services
Chatham County Occupational Safety & Risk Management
Chatham Emergency Management Agency

SUPPORT AGENCIES:
Chatham County Department of Engineering
Chatham County Facilities Maintenance & Operations
Chatham County Fleet Operations
Chatham County Information & Communication Systems
Chatham County Parks & Recreation
Chatham County Public Works
Chatham Emergency Services
Municipalities

INTRODUCTION

The emergency support function of damage assessment involves direction and coordination, operations, and follow-through during an emergency or disaster.

Purpose

ESF-17 Damage Assessment Annex supports the EOP and complies with standards set forth in the National Response Framework. This document provides guidance for damage assessment in the preparedness, response, recovery and mitigation phases. This however is not a tactical response document. ESF-17 Damage Assessment is designed to ensure timely and seamless integration of damage assessment resources following an emergency or disaster affecting Chatham County.

Damage assessment provides the basis for the Governor to proclaim an emergency or disaster and/or request Federal assistance. The damage assessment program is essential in a disaster situation to evaluate the cost of damages and/or loss to infrastructure, property and equipment. Information collected from damage assessments is used to request a disaster declaration for Individual Assistance (IA) and/or Public Assistance (PA).

Scope

ESF-17 conducts damage assessments necessary to develop a common operating picture. These operations are critical in determining what support may be needed following an emergency or disaster, as well as determining disaster declaration eligibility.

CONCEPT OF OPERATIONS

General

During an emergency or disaster, ESF-17 may be activated to support operations and assist with the development of a common operating picture. The scope, scale and magnitude of the threat/incident will dictate which support agencies will be requested for the support of ESF-17 Damage Assessment in the EOC.

Preparedness

a. Identify priority areas to conduct damage assessments.

b. Establish pre-identified damage assessment teams.

c. Ensure publicly owned infrastructure and equipment is properly insured.

d. Participate in exercises and training.

e. Estimate logistical requirements (personnel, supplies, equipment, facilities, and communications) during the planning process and through exercises.

f. Ensure all ESF-17 personnel integrate NIMS principles.

Response

a. In conjunction with ESF-5, determine the need to deploy damage assessment teams.

b. Collect damage assessment information, determine net losses for public assistance category expenses. Submit information to ESF-5.

c. Direct damage assessment teams to priority areas.

d. Coordinate with ESF-6 to determine areas that may need additional mass care support (shelter, feeding, POD's etc.)

e. Coordinate emergency information for public release through ESF-15.

f. Prepare damage assessment reports.

g. Document matters that may be needed for inclusion in briefings, situation reports and action plans.

Recovery

a. Provide damage assessment coordinators for Joint Preliminary Damage Assessments with State and Federal officials.

b. Work with insurance providers to repair damages to public infrastructure, buildings and equipment.

c. Provide net loss information for public assistance costs to appropriate jurisdictional finance entity.

Mitigation

a. Encourage construction enhancements or structural retrofits that minimize damage from disasters.

Organization

The County EOC will be activated to coordinate a multijurisdictional level response.

Representatives from the applicable ESF-17 Agencies may be assigned to the EOC or alternate location, as best suited to meet incident needs and coordinate operations.

ESF Role Aligned to Core Capabilities

The following table lists the response capability that ESF-17 most directly supports, along with the related ESF-17 actions supporting the capability.

Core Capability	ESF-17 Damage Assessment
Situational Assessment	• Provide all decision makers with decision-relevant information regarding the nature and extent of the hazard, any cascading effects, and the status of the response. This includes, among other things: ➢ Public Assistance Damage Assessment ➢ Individual Assistance Damage Assessment

Responsibilities

Coordinating Agency	Actions
Chatham County Building Safety & Regulatory Services	• Prioritize damage assessment areas • Coordinate IA damage assessments • Prepare damage assessment reports • Provide EOC Staffing for the following EOC position as needed: ➢ Damage Assessment

Coordinating Agency	Actions
Chatham County Occupational Safety & Risk Management	• Prioritize PA damage assessment areas • Coordinate PA damage assessments • Prepare damage assessment reports • Develop & maintain insurance information • Submit net loss information to Chatham County Finance
Chatham Emergency Management Agency	• Determine the need to activate damage assessment teams • Collect damage assessment information from municipalities • Submit damage assessment information to GEMA • Coordinate with other ESF's to provide necessary support to impacted areas • Coordinate ESF meetings

Supporting Agency	Actions
All Supporting Agencies	• Immediately following an emergency or disaster conduct IA or PA damage assessments • Provide necessary staffing to complete assessments • Attend ESF meetings to ensure planning and coordination functions are carried out to support this ESF • Provide additional resources as available to support ESF-17 response and recovery efforts • Develop appropriate plans, policies, procedures, mutual aid agreements, and other supporting documentation as needed to facilitate execution of responsibilities to this ESF • Participate in drills, exercises, and other preparedness events to measure the Agency's readiness to support this ESF • Prepare to support the Emergency Operations Center as needed • Document disaster related activities related to this ESF • Prepare to collect and maintain records of expenditures and document resource utilized during response and recovery operations
Chatham County Board of Assessors	• Support IA damage assessments
Chatham County Department of Engineering	• Support PA damage assessments
Chatham County Facilities Maintenance & Operations	• Support PA damage assessments

Supporting Agency	Actions
Chatham County Fleet Operations	• Provide repair/replacement estimates for damage county vehicles/equipment • Provide EOC Staffing for the following EOC position as needed: ➢ Transportation Ground Support
Chatham County Information & Communication Systems	• Support PA damage assessments • Provide EOC Staffing for the following EOC position as needed: ➢ ESF-2 IT & Communications
Chatham County Parks & Recreation	• Support PA damage assessments
Chatham County Public Works	• Support PA damage assessments
Chatham Emergency Services	• Support IA damage assessments
Municipalities	• Conduct IA damage assessments • Conduct PA damage assessments • Provide security for damage assessment teams • Report net PA losses to CEMA • Provide EOC Staffing for the following EOC position as needed: ➢ Municipal Liaison

Emergency Support Function – 18
Animal Services



2025

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1	12/3/24	Removed Greater Savannah Veterinary Association	12/3/24	Halcomb

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ESF – 18 Animal Services

ESF COORDINATOR:
Chatham County Animal Services

SUPPORT AGENCIES:
Georgia Department of Agriculture
Humane Society of Greater Savannah
Oatland Island Wildlife Center

INTRODUCTION

The emergency support function of Animal Services involves direction and coordination, operations, and follow-through during an emergency or disaster.

Purpose

The ESF-18 Animal Services Annex supports the EOP and complies with standards set forth in the National Response Framework. This document provides guidance pertaining to the safety and well-being of animals including companion animals during an emergency or disaster event. This however is not a tactical response document. ESF-18 Animal Services is designed to ensure timely and seamless integration of animal services resources following an emergency or disaster affecting Chatham County.

Scope

ESF-18 provides a framework for the identification and coordination of transportation assets, in conjunction with ESF-1 Transportation, to assist with the evacuation of pets and for the identification, staffing and support of pet-friendly shelters, animal shelters, and pet and/or animal confinement/quarantine areas during an emergency or disaster event.

CONCEPT OF OPERATIONS

General

During an emergency or disaster, ESF-18 may be activated to support operations and assist with the development of a common operating picture. The scope, scale and magnitude of the threat/incident will dictate which support agencies will be requested for the support of ESF-18 Animal Services in the EOC.

Preparedness

a. Develop plans and/or procedures providing for the coordinated and safe evacuation of pets and animals during an emergency or disaster event.

b. Ensure coordination with appropriate entities to provide vaccinations to pets and animals prior to transport and/or sheltering during an emergency or disaster event.

c. Develop and maintain a listing of all identified animal shelter and confinement areas that are available to provide support during an emergency or disaster event.

d. Coordinate with ESF-6 Mass Care/Sheltering to identify potential pet-friendly shelters in proximity to approved emergency shelter locations.

e. Coordinate and/or participate in the development of public service announcements to increase the awareness of the public regarding animal directives and available pet options during an emergency or disaster event.

f. Coordinate the development of MOA's with appropriate agencies/organizations for the provision of services to assist individuals and families affected by the emergency or disaster.

g. Ensure the development of procedures for the humane re-entry of animals post event and reunification with their owners.

h. Participate in and/or conduct training and exercises to evaluate available animal and animal industry response capabilities.

i. Ensure all ESF-18 personnel integrate NIMS principles.

Response

a. Coordinate the evacuation of animals from risk areas and provide technical assistance to prevent injury to animals and the dissemination of diseases.

b. Ensure the provision of care for livestock and other animals impacted by the emergency or disaster event.

c. Coordinate with local public, private and Non-Governmental Organizations to provide support to include equipment and technical assistance for the sheltering and stabling of both large and small animals during an emergency or disaster event.

Recovery

a. Ensure coordination with regional and state assets as appropriate.

b. Provide support to State of Georgia Animal Rescue Teams.

c. Provide support to agencies with long-term maintenance, placement or disposition of animals that cannot be returned to their normal habitat or which have been separated from their owners.

Mitigation

a. Support and plan for mitigation measures.

Organization

The County EOC will be activated to coordinate a multi-jurisdictional level response.

Representatives from the applicable ESF-18 Agencies may be assigned to the EOC or alternate location, as best suited to meet incident needs and coordinate operations.

ESF Role Aligned to Core Capabilities

The following table lists the response capability that ESF-18 most directly supports, along with the related ESF-18 actions supporting the capability.

Core Capability	ESF-18 Animal Services
Situational Assessment	• Provide all decision makers with decision-relevant information regarding the nature and extent of the hazard, any cascading effects, and the status of the response. This includes but is not limited to: ➢ Size, Scope and potential cascading effects.

Responsibilities

Coordinating Agency	Actions
Chatham County Animal Services	• Coordinate ESF meetings to ensure planning functions are carried out to support this ESF. • Coordinate resources to support pets and service animals at the County Evacuation Assembly Area upon activation. • Coordinate resources to support post-event animal rescue and provide operational support. • Provide support staffing to the EOC for the following position: ➢ Animal Services

Supporting Agency	Actions
All Supporting Agencies	• Attend meetings to ensure planning functions are carried out to support this ESF. • Identify Agency staff representatives to support this ESF and other operational practices during emergency and disaster operations. • Ensure the presence of resources (human and physical) are in sufficient numbers to support the Agency's responsibilities to this ESF. • Conduct recovery and restoration tasks in coordination with the EOC/RCC and federal assistance program guidance. • Annually evaluate Critical Workforce staffing needs and report sheltering and/or equipment staging locations as requested. • Coordinate pertinent disaster recovery information with the County Joint Information Center (JIC). • Identify damages and/or losses and prepare an action plan for recovery activities. • Maintain records of expenditures and document resources utilized during response and recovery operations. • Develop appropriate Plans, Procedures, Mutual Aid Agreements, Checklists, Go-Kits and other supporting documentation as needed to facilitate execution of the Agency's responsibilities to this ESF. • Prepare to support the EOC as necessary. • Participate in drills, exercises and other preparedness events to evaluate the Agency's readiness to support this ESF. • Ensure Agency staff maintain NIMS compliance and report compliance measurements annually as requested.
Georgia Department of Agriculture	• Provide available resources to support pre-event animal evacuations and post-event animal rescue and operational support. • Provide technical assistance for the inspection of facilities to ensure the safety of animals during an evacuation.
Humane Society of Greater Savannah	• Provide available resources to support pre-event animal evacuations and post-event animal rescue and operational support.
Oatland Island Wildlife Center	• Provide available resources to support pre-event animal evacuations and post-event animal rescue and operational support.

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Emergency Support Function – 19
Cultural/Historical



2025

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ESF – 19 Cultural/Historical

ESF COORDINATOR:
Georgia Heritage Responders (GHR) - Chatham County Lead

SUPPORT AGENCIES:
American Prohibition Museum
Andrew Low House Museum
ARTS Southeast / Sulfur Studios
Beach Institute African American Cultural Center
Bonaventure Historical Society
Catholic Diocese of Savannah Archives & Records
Chatham County Botanical Garden, Savannah Area Council of Garden Clubs (SACGC)
City of Savannah Municipal Archives
Coastal Heritage Society (CHR; 8 sites)
- Frogtown Tenement #1
- Frogtown Tenement #2
- Georgia State Railroad Museum
- Harper Fowlkes House
- Old Fort Jackson
- Pin Point Heritage Museum
- Savannah Children's Museum
- Savannah History Museum - Battlefield Memorial Park

Congregation Mickve Israel - Nancy & Lawrence Gutstein Museum
Davenport House Museum
Flannery O'Connor Childhood Home
Fort Pulaski National Monument, National Park Service
Georgia Heritage Responders (GHR)
Georgia Historical Records Advisory Council (GHRAC)
Georgia Historical Society
Girl Scout First Headquarters
Gray's Reef Ocean Discovery Center (NOAA)
Green-Meldrim House -- St. John's Church
Historic Savannah Foundation (HSF)
Historic Tours of America
Juliette Gordon Low Birthplace
Kiah House Museum
King-Tisdell Cottage
Lane Library, Georgia Southern University/Armstrong
Live Oak Public Libraries (12 Chatham County sites)
- Bull Street Library
- Carnegie Library
- Forest City Library
- Garden City Library
- Islands Library
- Oglethorpe Mall Library (new site confirmed for constructed)
- Pooler Library
- Port City Library
- Southwest Chatham Library
- Tybee Library
- W. W. Law Library
- West Broad Library

Massie Heritage Center (Savannah-Chatham County Public Schools System)
Mercer Williams House Museum
Mighty Eighth Air Force
National Museum of the Ossabaw Island Foundation
Ralph Mark Gilbert Civil Rights Museum
Savannah African Art Museum
Savannah National Wildlife Refuge (US Fish & Wildlife Service)
Savannah-Ogeechee Canal Society
Savannah Technical College Library
Savannah Theatre
SCAD Museum of Art (Savannah College of Art & Design)
Ships of the Sea Maritime Museum
Skidaway Island State Park (Georgia Department of Natural Resources)
Telfair Museums
    Jepson Center for the Arts
    Owens-Thomas House & Slave Quarters
    Telfair Academy
That Great Gretsch Sound Museum Exhibit
The LAMAR Institute
Tybee Island Historical Society -- Light Station and Museum
Tybee Island Marine Science Center
Tybee Post Theater
UGA Marine Extension Service & Georgia Sea Grant
Wassaw Island Caretta Research Project
Webb Military Museum
Wormsloe State Historic Site (Georgia Department of Natural Resources)

INTRODUCTION

In the state of Georgia, NCH properties are coordinated within ESF-11 under the Georgia Department of Agriculture. The Georgia Department of Community Affairs, Historic Preservation Division (GA DCA HPD) is the state's lead agency for statewide NCH coordination efforts and shares joint oversight of NCH emergency and disaster operations with the Georgia Department of Natural Resources, Parks, Recreation, and Historic Sites Division (GA DNR PRHSD). Georgia's NCH Workgroup Partners include the Georgia Archives and the Georgia Public Library Service (GPLS), both of which are units of the University System of Georgia, as well as the Georgia Heritage Responders (GHR) and the GaNCH online directory.

In Chatham County, ESF-19 serves primarily to coordinate with local and state agencies involved in the preservation and protection of Public and Private Non-Profit (PNP) Natural, Cultural and Historical (NCH) properties. The emergency support function of cultural/historical services involves direction and coordination, operations, and follow-through during an emergency or disaster. Regional Georgia Heritage Responders (GHR) serve as the coordinators for this ESF.

Purpose

Emergency Support Function (ESF)-19 provides operational guidance to departments/organizations that are assigned to work within this ESF. ESF-19 serves

primarily to coordinate with local and state agencies involved in the preservation and protection of Public and Private Non-Profit (PNP) Natural, Cultural and Historical (NCH) properties. Through a collaborative effort, NCH institutions will be encouraged to inventory and prioritize collections, identify potential risks to their resources and develop Standard Operating Guides (SOG) identifying processes for disaster preparedness, response, continuity of operations, recovery and mitigation.

Scope

ESF-19 acts to manage, monitor, and assist in preparedness, response and recovery actions in order to minimize damage to natural, cultural and historical (NCH) property resources, including essential government and historical records.

CONCEPT OF OPERATIONS

General

During an emergency or disaster, ESF-19 may be activated to support operations and assist with the development of a common operating picture. The scope, scale and magnitude of the threat/incident will dictate which support agencies will be requested for the support of ESF-19 Cultural/Historical in the EOC.

Preparedness

a. Develop an inventory of natural, cultural and historical resources and prioritize collections.

b. Participate in and/or conduct workshops for cultural/historical properties to encourage the development of disaster preparedness, response and recovery plans.

c. Participate in mutual aid agreements with governmental agencies, professional organizations and private sector entities.

d. Ensure all ESF-19 personnel integrate NIMS principles.

Response

a. Report the locations of damage and impacts on natural, cultural and historical properties to include the degree of damage and any pertinent information to the EOC.

b. Provide technical assistance to public and PNP NCH properties in damage assessment; request technical assistance and damage assessment support from the GEMA SOC.

c. Coordinate with the state (e.g., GA Archives Liaison) regarding technical assistance on the preservation of and scientific process associated with records

and archival management. Obtain information related to the security of and logistical requirements necessary for damaged natural, cultural and historical records.

d. Coordinate public information and provide updates to ESF-15 for dissemination to local media outlets and members of the public.

e. Report and document damages for possible recovery and Public Assistance reimbursements.

Recovery

a. Support disaster recovery operations with all available resources.

b. Work with the state to reopen public natural, cultural and historical properties to the public as soon as safely possible.

c. Resume day-to-day operations.

d. Report re-opening status.

Mitigation

a. Support and plan for mitigation measures.

Organization

The County EOC will be activated to coordinate a multijurisdictional level response.

Representatives from the applicable ESF-19 Agencies may be assigned to the EOC or alternate location (e.g., WebEOC) as best suited to meet incident needs and coordinate operations.

ESF Role Aligned to Core Capabilities

The following table lists the response capability that ESF-19 most directly supports, along with the related ESF-19 actions supporting the capability.

Core Capability	ESF-19 Cultural/Historical
Planning	• Conduct a systematic process engaging the whole community as appropriate in the development of executable strategic, operational, and/or tactical-level approaches to meet defined objectives. This includes, but is not limited to: ➢ Developing and maintaining SOGs ➢ Developing and maintaining MOAs

	➢ Participating in and/or conduct training and exercises to evaluate local capabilities.
Natural and Cultural Resources	• Protect natural and cultural resources and historic properties through appropriate planning, mitigation, response and recovery actions to preserve, conserve, rehabilitate and restore them. This includes, but is not limited to: ➢ Consistency with post-disaster community priorities ➢ Compliance with applicable environmental and historic preservation laws ➢ Compliance with executive orders

Responsibilities

Coordinating Agency	Actions
Georgia Heritage Responders (GHR)	• Coordinate ESF meetings to ensure constant state of readiness. • Coordinate communication with all Support Agencies • Develop plans and procedures to support emergency or disaster operations. • Coordinate the reopening of public natural, cultural and historical properties to the public as soon as safely possible. • Conduct impact assessment within impacted areas • Coordinate pertinent disaster recovery information with the County Joint Information Center. • Maintain the WebEOC NCH Dashboard and report accordingly to the County and State EOCs • Provide EOC Staffing for the following EOC positions as needed: ➢ Cultural/Historical Properties

Supporting Agency	Actions
All Support Agencies	• Inventory and Prioritize Historical and Cultural collections. • Ensure the presence of resources (human and physical) is in sufficient numbers to support the Agency's responsibilities to this ESF. • Develop appropriate Plans, Procedures, Mutual Aid Agreements, Vendor Contracts, Checklists, Go-Kits and

Supporting Agency	Actions
All Supporting Agencies (Continued)	other supporting documentation as necessary to facilitate execution of the responsibilities to this ESF. • Conduct risk assessments to determine vulnerabilities • Ensure measures are taken to protect and preserve the cultural site and collections. • Participate in drills, exercises and other preparedness events to evaluate the Agency's readiness to support this ESF. • Maintain and provide updated contact information for site points of contact in the NCH WebEOC Dashboard • Coordinate with other ESF Agencies through regularly scheduled meetings to ensure planning functions are carried out in support of this ESF. • Identify Agency staff representatives supporting this ESF and other operational practices during emergency and disaster operations. • Prepare to support the EOC as necessary. • Ensure Agency staff maintain NIMS compliance and report compliance measurements annually when requested. • Conduct impact assessment of the agency's site, report any damages/losses and prepare an action plan for recovery activities. • Prepare to collect and maintain detailed, comprehensive records of expenditures and document resources (personnel and items) utilized during response/ recovery operations. • Develop a Continuity of Operations Plan (COOP) for the facility and identify long-range recovery needs assuming temporary/long-term loss of occupancy of the agency structure and access to records/collections.

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City Council
7224 GA Highway 21
Port Wentworth, GA 31407

SCHEDULED

Meeting: 03/20/25
Department: Development Services
Category: Ordinance
Prepared By: Katie Dunnigan
Department Head: Katie Dunnigan

AGENDA ITEM (ID)

DOC ID:

2nd Public Hearing for Comprehensive Plan Revision

Issue/Item:

2nd Public Hearing for Comprehensive Plan Revision

Background:

- This Public Hearing is a requirement of the Comprehensive Plan Update process
- The Public Hearing serves to present a draft of the Update and open a time period of public review and comment
- Review and comment will close on April 4, 2025

Facts and Finding:

Funding:

Recommendation:

City Council
7224 GA Highway 21
Port Wentworth, GA 31407

SCHEDULED

Meeting: 03/20/25
Department: Development Services
Category: Ordinance
Prepared By: Katie Dunnigan
Department Head: Katie Dunnigan

AGENDA ITEM (ID) DOC ID:

Sainamo, LLC, requests the approval of a General Site Plan "Shopping Center Development". PIN# 70037 01053, located on Old Richmond Road in the 3rd Council District. Zoned C-2.

Issue/Item:

Sainamo, LLC, requests the approval of a General Site Plan "Shopping Center Development". PIN# 70037 01053, located on Old Richmond Road in the 3rd Council District. Zoned C-2.

Background:

- The applicant proposes to develop a multi-tenant commercial building as a 2nd phase to the existing Coldbrook Plaza.
- The subject site is approximately 1 acre.
- All adjacent properties are within the C-2 (General Commercial) zoning district.
- A requisite community meetings was held for this project on January 22, 2025. No input was received.
- Pursuant to The Code of the City of Port Wentworth Georgia, Zoning Ordinances, Section 13.20: "*After review and recommendation by the Planning Commission, the City Council shall act upon all concept plans...required in Table 13.20.*"

Facts and Finding:

- The proposed building is to be a 4-tenant commercial building. Two of the tenant spaces have been identified by the applicant as intended restaurants.
- In addition to the access point on Old Richmond Road, there is a secondary access point proposed on Coldbrook Station Road .
- A variance from required rear building setbacks was approved at the March 3, 2025 Zoning Board of Appeals meeting.
- This project will be served by City of Port Wentworth water/sewer.

Funding:

N/A

Recommendation:

- A variance from required rear building setbacks was approved by the Zoning Board of Appeals on March 3, 2025.
- The submitted General Site Plan conforms to the City of Port Wentworth Ordinances.
- At the March 2, 2025 meeting, the Planning Commission voted to recommend approval of the Concept Site Plan.

City of Port Wentworth
▪7224 Highway 21 ▪ Port Wentworth ▪ Georgia ▪ 31407 ▪ 912-999-2084

Site Plan Review Application

Site Plan Type (*Check One*): ☑ General / Concept ☐ Specific Development

Site Plan Address: 0 Old Richmond Rd.

PIN #(s): 70037 01053

Zoning: C-2 Estimated Cost of Construction: $ 1,500,000

Type of Construction: Commericial / New

Project Name: Shopping Center Development

Applicant's Name: Sciname, LLC

Mailing Address: 499 Old Richmond Rd.
Port Wentworth GA 31407

Phone #: 912-544-0217 Email: NMRA1234@gmail.com

Owner's Name (If Different form Applicant): _____

Mailing Address: _____

_____

Phone #: _____ Email: _____

I hereby acknowledge that the above information is true and correct.

_____ 1/9/2025
Applicant's Signature Date

N/A _____
Owner's Signature (If Different form Applicant) Date

Please see page 2 for required submittal checklist

Updated 07.15.24

City of Port Wentworth
▪7224 Highway 21 ▪ Port Wentworth ▪ Georgia ▪ 31407 ▪ 912-999-2084

Site Plan Review Application Submittal Checklist

Documentation below is required for a complete submittal.

☑ Signed and Completed Application

☑ 3 Full size sets of site plan civil drawings or concept plan (depending on type of site plan)

☑ 3 half size (11" X 17") sets of site plan civil drawings or concept plan (depending on type of site plan)

☑ 2 copies of hydrology reports (if applicable)

☑ Names, mailing address, and PIN number of all property owners within 250 feet of all property lines

☑ 1 8 ½" X 11" of site plan civil drawings or concept plan (depending on type of site plan)

☑ PDF of entire submittal on a flash drive or download link ONLY (NO CD'S)

☐ Other Engineering details or reports may be required once submittal has been received.

☐ If property owner and applicant are not the same, Authorization of Property Owner form.

☑ Site plan review fee check ***(Please refer to the "Business User Fee Schedule" for the current year.)***

- Concept / General - Site Plan Fee + Admin Fee = Total
- Specific - Site Plan Fee + Admin Fee = Total

Additional Fee Statement: If engineer review cost to the City exceeds the site plan review fee that is paid at the time of initial application submittal, you may be required to pay additional review cost.

I have read and agree to the above additional fee statement

Applicant's Signature

1/9/2025
Date

Updated 07.15.24

Holiday Inn Express & Suites
79 Coldbrook Station Circle
Port Wentworth, GA 31407
Parcel # 70037 01034

Owner:
Roma Hospitalities Inc.
130 Canal Street
Suite 101
Pooler, GA 31322

Agave Bar and Grill
7222 GA Highway 21
Port Wentworth, GA 31407
Parcel # 70037 01033
Owner:
Staycation Land Group LLC
2808 E. College Ave
Decatur, GA 30030

Zaxby's
100 Old Richmond Road
Port Wentworth, GA 31407
Parcel # 70907 01008

Owner:
Port Wentworth Fee Owner, LLC
3735 B Beam Road
Charlotte, NC 28217

The Columns at Coldbrook
501 Old Richmond Road
Port Wentworth, GA 31407
Parcel # 70037 01051

Owner:
Chatham-Coldbrook Associates, LLC
PO Box 20197
Atlanta, GA 30325

Food Lion/Family Dollar
Waterford Shoppes
7306 GA Highway 21

Port Wentworth, GA 31407
Parcel # 70907 01004

Owner:
Port Wentworth Fee Owner, LLC
3735 B Beam Road
Charlotte, NC 28217

City of Port Wentworth
7224 GA Highway 21
Port Wentworth, GA 31407
Parcel # 70037 01036

Owner:
Georgia Municipal Association Inc.
201 Pryor Street
Atlanta, GA 30303

CVS Pharmacy
7300 GA Highway 21
Port Wentworth, GA 31407
Parcel # 70907 01005

Owner:
49-50 Port Wentworth LLC & KM CVS Health Corporation
Altus Group US Inc.
PO Box 1610
Hunts Valley, MD 21030

Baymont by Wyndham Port Wentworth
7220 GA Highway 21
Port Wentworth, GA 31407
Parcel # 70037 01032

Owner:
Limitless Hospitalities, LLC
3937 Woodoats Circle
Buford, GA 30519

Sign In / Sign Out

Event: Coldbrook Plaza Community Meeting Date: 1/22/25

Print Name	Comments	TIME-IN	TIME-OUT
1. James Taint	N/A	6:00	6:07
2. Shaun Rundstrom	N/A	6:00	7:00
3.			
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Zoning Board of Appeals
7224 GA Highway 21
Port Wentworth, GA 31407

SCHEDULED

Meeting: 03/03/25
Department: Development Services
Category: Ordinance
Prepared By: Katie Dunnigan
Department Head: Katie Dunnigan

AGENDA ITEM (ID) DOC ID:

A application has been submitted by Sainamo, LLC for a variance from the minimum required rear building setback, to allow for phased commercial development. PIN # 70037 01053 in the 3rd Council District, located on Old Richmond Road, Port Wentworth, zoned C-2.

Issue/Item: A application has been submitted by Sainamo, LLC for a variance from the minimum required rear building setback, to allow for phased commercial development. PIN # 70037 01053 in the 3rd Council District, located on Old Richmond Road, Port Wentworth, zoned C-2.

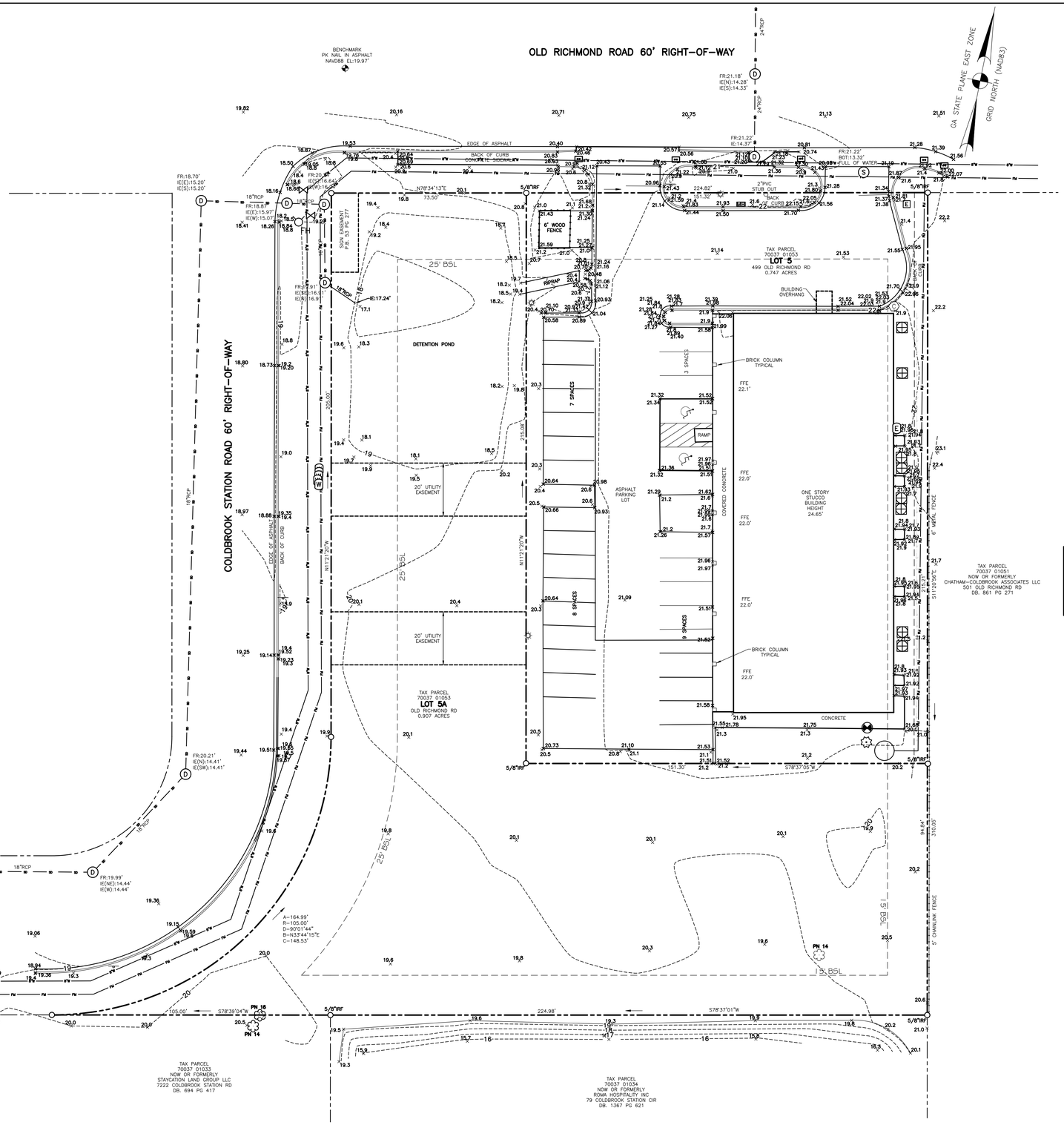
Background: - The applicant wishes to develop the 2nd phase of a commercial plaza.

- The intended use of the site is a multi-tenant commercial building, approximately 9,160 square feet.
- The first phase of development was a multi-tenant commercial building, approximately 9,088 square feet. The final site plan was approved in May, 2019 to include encroachment of the current rear setback.
- The proposed site plan for the new phase puts the building approximately 4.5' in to the 15' minimum setback as shown in Table 4.40 of the City of Port Wentworth Code of Ordinances, Zoning Ordinances.

Facts and Finding: - The conditions for approval of a variance are found in the Port Wentworth, Georgia Code of Ordinances, Zoning Ordinances, Section 21.30.C.2 as follows: *Where by reason of the exceptional narrowness, shallowness, or shape of a specific piece of property, or by reason of exceptional topographic conditions, or other extraordinary situation or condition of the land, building, or structure, or of the use or development of property immediately adjoining the property in question, the literal enforcement of the requirements of this ordinance would involve practical difficulties or would cause undue hardship.*
- The proposed building is comparable in size, structure, and setback to the previous approved building in the same plaza.
- The shape and orientation of the site for phase 2 disallow continuity of development due to the lack of depth of the site.
- The rear of the proposed building will abut the parking lot of an adjacent C-2 parking lot.
- The adjacent property provides approximately 27' of landscaping and a detention pond between their parking lot and the shared property line.

Funding: N/A

Recommendation: Approval of the requested variance does not appear to represent a negative impact to the use or aesthetics of surrounding properties or operations. The requested variance allows for consistency across a phased development.



EXISTING SITE PLAN

1" = 20'

LEGEND

NEW	EXISTING	DESCRIPTION
		BUILDING
		RESURFACE ASPHALT PAVEMENT
		ASPHALT PAVEMENT TYPE I
		ASPHALT PAVEMENT TYPE II
		CONCRETE PAVEMENT
		CONCRETE SIDEWALK
— SD —		STORM DRAIN LINE
— SS —	— SS —	SANITARY SEWER LINE
— W —	— W —	WATER LINE
●	Ⓢ	SANITARY SEWER MANHOLE
	G.V.	GAS VALVE
	W.V.	WATER VALVE
■	W.M.	WATER METER
		FIRE HYDRANT
		SIGN
		FLARED END SECTION
	13.00	SPOT ELEVATION
		CONTOUR
I.E.4.13	I.E.4.13	INVERT ELEVATION
	—X—	CHAIN LINK FENCE
		DITCH INVERT
		PROPERTY LINE
	IPF	IRON PIN FOUND
TW 16.83		TOP OF WALK
TP 14.65		TOP OF PAVEMENT
FG 16.1		FINISHED GRADE
TS 16.10		TOP OF STONE
TG 16.10		TOP OF GUTTER
TC 16.10		TOP OF CURB

FIRE PROTECTION WATER :

AS PER 2018 IBC :
1. RETAIL = M OCCUPANCY (SECTION 309.1)
2. SPRINKLER PROTECTION IS NOT REQUIRED AS PER SECTION 903.2.7.

SITE FIRE PROTECTION NOTES :

1. ACCESS FOR FIREFIGHTING
3310.10 REQUIRED ACCESS.
APPROVED VEHICLE ACCESS FOR FIREFIGHTING SHALL BE PROVIDED TO ALL CONSTRUCTION OR DEMOLITION SITES. VEHICLE ACCESS SHALL BE PROVIDED TO WITHIN 100 FEET OF TEMPORARY OR PERMANENT FIRE DEPARTMENT CONNECTIONS. VEHICLE ACCESS SHALL BE PROVIDED BY EITHER TEMPORARY OR PERMANENT ROADS CAPABLE OF SUPPORTING VEHICLE LOADING UNDER ALL WEATHER CONDITIONS. VEHICLE ACCESS SHALL BE MAINTAINED UNTIL PERMANENT FIRE APPARATUS ROADS ARE AVAILABLE.

2. FIRE LANE SIGNS SHALL BE SPACED AT A MINIMUM OF 200 FEET APART, SIZE TO BE 12" x 18" WITH A WHITE REFLECTING BACKGROUND AND RED LETTERS AND SHALL READ AS FOLLOWS: "FIRE LANE - NO PARKING - TOW-AWAY ZONE".

3. AS PER FIRE CODE, FIRE FIGHTING APPARATUS MUST BE ABLE TO ACCESS TO WITHIN 150' OF ANY PART OF BUILDING.

FEMA MAP NOTES :

1. THIS DEVELOPMENT IS WITHIN FLOOD ZONE AREA "X" ACCORDING TO F.I.R.M. COMMUNITY PANEL NUMBER 13051C0030G, MAP REVISED AUGUST 16, 2018 (NAVD 88).

2. THIS SITE IS IN ZONE "X" AND IS NOT LOCATED WITHIN THE 100 YEAR FLOOD ZONE.

3. CONTRACTOR IS TO VERIFY FEMA ELEVATIONS PRIOR TO ANY CONSTRUCTION ACTIVITIES.

TRAFFIC / RIGHT-OF-WAY AND DISCHARGE NOTES:

1. ALL ROAD CLOSINGS, DETOURS AND ETC. ARE TO BE COORDINATED WITH THE CITY OF PORT WENTWORTH, GEORGIA.

2. ANY AND ALL NECESSARY PERMITS MUST BE OBTAINED FROM THE CITY OF PORT WENTWORTH PRIOR TO COMMENCEMENT OF ANY WORK.

3. CONTRACTOR IS TO OBTAIN A R.O.W. PERMIT PRIOR TO PERFORMING ANY WORK WITHIN CITY OF PORT WENTWORTH RIGHT-OF-WAY.

4. CHLORINATED DISINFECTED WATER SHALL NOT BE DISCHARGED INTO THE STORMWATER SYSTEM.

STREAM BUFFER ENCROACHMENT NOTES :

1. NEW STRUCTURES ON THIS PROJECT DO NOT ENCROACH IN THE 25 OR 50 FOOT STREAM BUFFER.

2. NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 OR 50 FOOT UNDISTURBED STREAM BUFFERS AS MEASURED FROM THE POINT OF WRESTED VEGETATION OR WITHIN 25 FEET OF THE COASTAL MARSHLAND BUFFER AS MEASURED FROM THE JURISDICTIONAL DETERMINATION LINE WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS.

SPECIAL ORDINANCE NOTE :

IN CASE OF CONFLICT BETWEEN THESE PLANS AND THE CITY OF PORT WENTWORTH'S ORDINANCES STANDARDS, SPECIFICATIONS OR DETAILS, THE CITY OF PORT WENTWORTH'S, STANDARDS ARE TO TAKE PRECEDENCE.

PORT WENTWORTH ORDINANCE NOTES :

1. CONTRACTOR IS TO VERIFY ALL BSL'S, BUFFERS, ETC. WITH THE PORT WENTWORTH PLANNING AND ZONING DEPARTMENT PRIOR TO CONSTRUCTION ACTIVITIES.

SPECIAL F.F. NOTES :

1. CONTRACTOR TO VERIFY FEMA ELEVATIONS PRIOR TO ANY CONSTRUCTION ACTIVITIES AND COORDINATE WITH GOVERNING AGENCY REQUIREMENTS.

2. CONTRACTOR TO COORDINATE FINISH FLOOR ELEVATIONS WITH STRUCTURAL, ARCHITECTURAL AND M.E.P. PLANS.

Survey Information :

1. Survey information : Brewer Land Surveying (supplied by owner)
2. Date of Original Survey : August 09, 2024
3. Datum : NAVD 88

NOTES:

1. CONTRACTOR IS TO COORDINATE ALL GAS, LIGHTING, ELECTRICAL, PHONE, CABLE AND ANY OTHER REQUIRED UTILITIES WITH THE APPROPRIATE UTILITY AGENCIES.

2. CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL EXISTING UTILITIES PRIOR TO COMMENCING OF CONSTRUCTION ACTIVITIES AND FOR AVOIDING CONFLICT WITH SAME. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED AT THE EXPENSE OF THE CONTRACTOR.

3. CONTRACTOR IS TO COORDINATE ALL DEMOLITION WORK WITH THE OWNER. ALL ITEMS NOT TO BE RELOCATED OR GIVEN TO THE OWNER WILL BECOME THE PROPERTY OF THE CONTRACTOR.

4. REMOVE ALL TREES AS NECESSARY FOR PROPOSED CONSTRUCTION.

PROJECT INFORMATION :

P.I.N. : 70037 01053 (Lots 5 & 5A)

PROJECT ADDRESS : 0 Old Richmond Road
Port Wentworth, Georgia 31407

CURRENT ZONING : C-2 (General Commercial)

SITE SIZE : 1.654 ACRES

ESTIMATED DISTURBED AREA : 0.97 ACRES

SETBACKS :
FRONT = 25'
SIDE STREET = 25'
*REAR = 15'
*SIDE = 15'
*ABUTTING COMMERCIAL & INDUSTRIAL DISTRICTS.

BUILDING HEIGHT = 45'

MAX BUILDING COVERAGE = 60%

OWNER : Nishant Randerwala
112 Riverside Blvd
Port Wentworth, Ga., 31407

PRIMARY PERMITTEE EMAIL : nmra1234@gmail.com

PHONE : 912-544-0217

SPECIAL CONSTRUCTION NOTE:

IF THE CONTRACTOR KNOWS OR CAN REASONABLY BE EXPECTED TO HAVE KNOWN OF AN ERROR, DISCREPANCY OR CONFLICT IN THE PLANS, SPECIFICATIONS OR CONSTRUCTION STAKING AND FAILS TO REPORT THE PROBLEM PRIOR TO CONSTRUCTION, HE SHALL NOT BE ENTITLED TO COMPENSATION FOR ANY WORK OR EXPENSE INCURRED BY HIM FOR WORK REQUIRED TO BE RE-CONSTRUCTED BECAUSE OF SAID ERROR, DISCREPANCY OR CONFLICT.

SCALE: 1" = 20'
0 20' 40' 50'

REVISIONS

BOSWELL DESIGN SERVICES, INC.
OFFICE : 4700 EAST HIGHWAY 80
Unit K, Suite 1
MAILING : 105 NASSAU DRIVE
SAVANNAH, GEORGIA 31410
912 - 897 - 6932
LAHBOS@Bellsouth.net

DESIGNED: ---
DRAWN: MAB
CHECKED: ---
DATE: NOV. 26, 2024
JOB NO. ---
SCALE: as shown

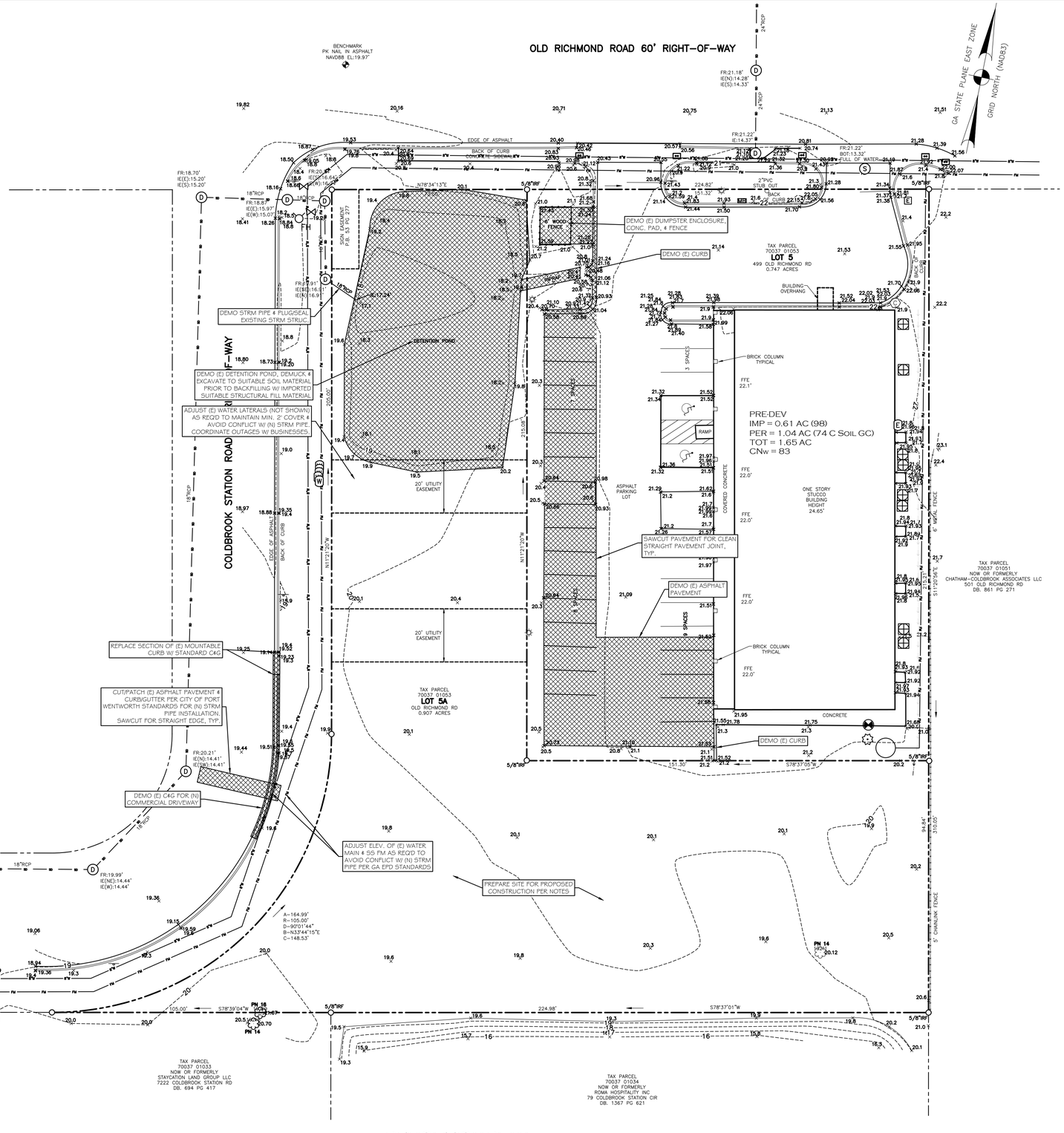
SHOPPING CENTER DEVELOPMENT SITEWORK PLANS
0 OLD RICHMOND ROAD
PORT WENTWORTH, GA 31407
FOR
NISHANT RANDERWALA
PORT WENTWORTH, GA

EXISTING SITE PLAN

CONTACT A MINIMUM OF 72 HOURS PRIOR TO DIGGING
GEORGIA UTILITIES PROTECTION CENTER
UTILITIES PROTECTION CENTER
1-800-282-7411

GEORGIA REGISTERED
Mark Boswell
No. 28372
PROFESSIONAL
11-26-24
ENGINEER
MARK A. BOSWELL

DRAWING NUMBER
C-2
2 OF 28 SHEETS



DEMOLITION PLAN

1" = 20'

LEGEND

NEW	EXISTING	DESCRIPTION
		BUILDING
		RESURFACE ASPHALT PAVEMENT
		ASPHALT PAVEMENT TYPE I
		ASPHALT PAVEMENT TYPE I I
		CONCRETE PAVEMENT
		CONCRETE SIDEWALK
— SD —		STORM DRAIN LINE
— SS —	— SS —	SANITARY SEWER LINE
— W —	— W —	WATER LINE
●	Ⓢ	SANITARY SEWER MANHOLE
	G.V.	GAS VALVE
	W.V.	WATER VALVE
	W.M.	WATER METER
		FIRE HYDRANT
		SIGN
		FLARED END SECTION
	13.00	SPOT ELEVATION
		CONTOUR
I.E.4.13	I.E.4.13	INVERT ELEVATION
	—x—	CHAIN LINK FENCE
		DITCH INVERT
		PROPERTY LINE
	IPF	IRON PIN FOUND
TW 16.83		TOP OF WALK
TP 14.65		TOP OF PAVEMENT
FG 16.1		FINISHED GRADE
TS 16.10		TOP OF STONE
TG 16.10		TOP OF GUTTER
TC 16.10		TOP OF CURB

LEGEND

ITEM	EXISTING	PROPOSED
TOPO	18.4	FG 12.3
CONTOURS		12
DRAINAGE FLOW ARROWS		
TOP OF PARKING SLAB		TPS 12.30

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SCALE: 1" = 20'

0 20' 40' 50'

REVISIONS

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DESIGNED	DRAWN	CHECKED
---	MAB	---

DATE : NOV. 26, 2024

JOB NO. ---

SCALE: as shown

SHOPPING CENTER DEVELOPMENT SITEWORK PLANS
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DEMOLITION PLAN

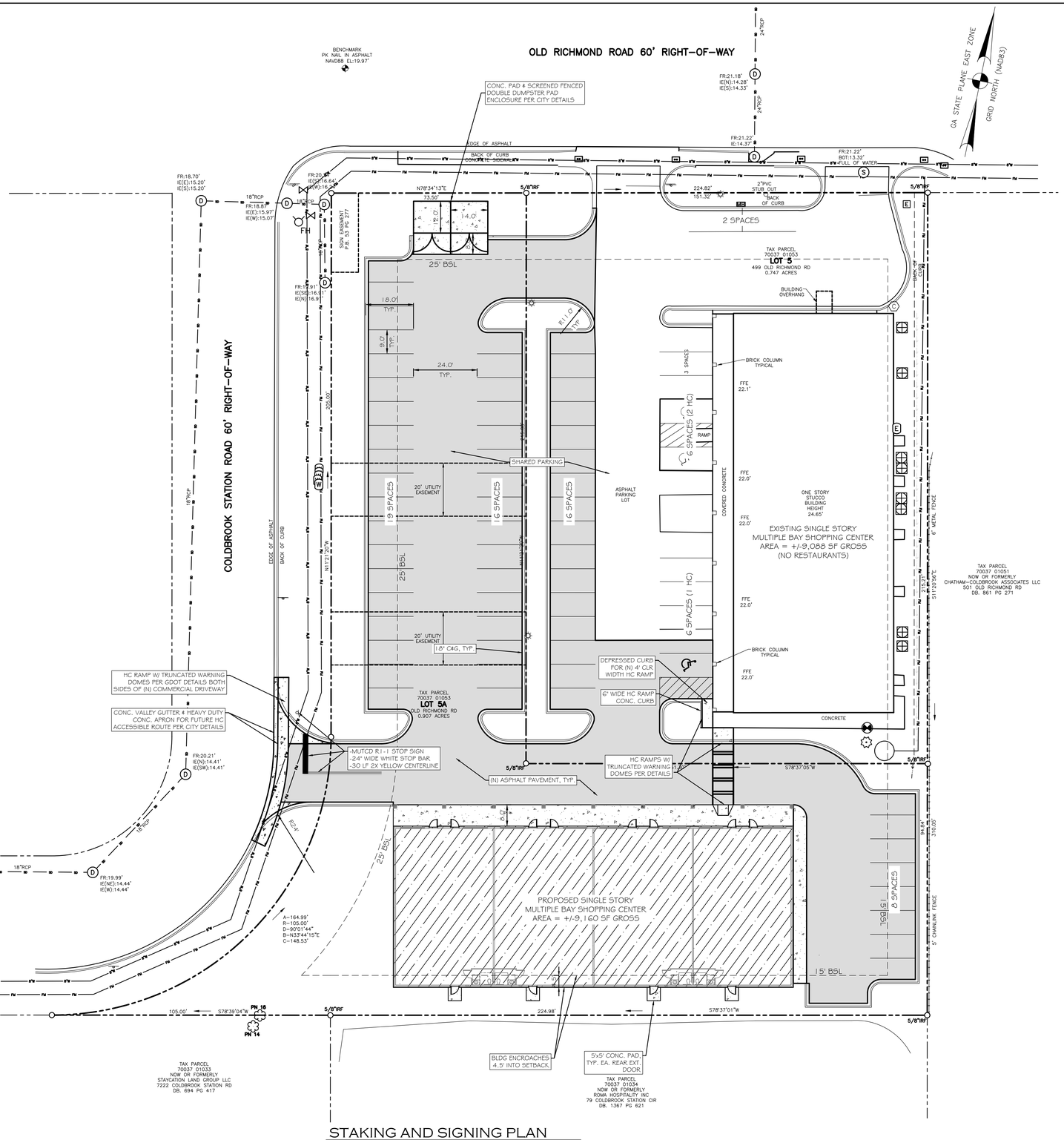
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GEORGIA REGISTERED
No. 28372
PROFESSIONAL
11-26-24
ENGINEER
MARK A. BOSWELL

DRAWING NUMBER

C-3

3 OF 28 SHEETS



STAKING AND SIGNING PLAN

1" = 20'

SPECIAL SIGNAGE AND STRIPING NOTES :

1. STOP SIGNS SHALL BE HIGH INTENSITY OR DIAMOND GRADE.
2. PAVEMENT MARKINGS ARE TO BE THERMOPLASTIC.
3. ALL SIGNS ARE TO BE IN ACCORDANCE WITH MUTCD.

STREAM BUFFER ENCROACHMENT NOTES :

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SPECIAL AE AND VE ZONE NOTES :

1. BUILDINGS IN "AE" ZONES ARE TO HAVE THE FINISHED FLOOR SET A MINIMUM OF 1' ABOVE FLOOD.
2. BUILDINGS IN "VE" ZONES ARE TO HAVE THE LOWEST HORIZONTAL STRUCTURAL MEMBER SET A MINIMUM OF 1' ABOVE FLOOD.
3. BUILDINGS IN AE AND VE ZONES ARE TO HAVE ALL ELECTRICAL, PLUMBING, HVAC, DUCTWORK AND OTHER EQUIPMENT TO BE A MINIMUM OF 1' ABOVE FLOOD.
4. FLOOD VENTS ARE REQUIRED IN "AE" ZONES AND ARE TO HAVE 1 SQUARE INCH / SQUARE FOOT OF FLOOR PLAN AREA WITH A MINIMUM ROUND OPENING OF 3". A MINIMUM OF 2 OPENINGS WITH ALL OPENINGS EVENLY SPACED AROUND PERIMETER. BOTTOM OF OPENING SHALL BE 12" OR LESS ABOVE ADJACENT GRADE.
5. BREAK AWAY WALLS ARE REQUIRED IN "VE" ZONES.
6. COORDINATE SITE WORK AND FINISHED FLOOR ELEVATIONS WITH ARCHITECTURAL PLANS TO MAKE SURE BUILDING ELEVATIONS ARE SET AS PER CODE.

GENERAL NOTES:

1. DIMENSIONS ARE IN FEET AND DECIMAL OF FEET UNLESS NOTED OTHERWISE.
2. LIMITS OF CLEARING AND GRUBBING SHALL MATCH THE PROPERTY LINE BOUNDRY OR AS SHOWN ON THE PLANS. COORDINATE ALL CLEARING ACTIVITIES WITH THE ENGINEER/OWNER.
3. ALL COORDINATES AND BEARINGS SHOWN ARE BASED ON A SITE COORDINATE SYSTEM. CONTRACTOR SHALL VERIFY PRIOR TO THE START OF CONSTRUCTION.
4. BENCHMARKS SHALL BE VERIFIED BY THE CONTRACTOR AS TO LOCATION AND ELEVATION PRIOR TO THE START OF CONSTRUCTION.
5. ALL ANGLES ARE 90 DEGREES UNLESS OTHERWISE NOTED.
6. CONTRACTOR SHALL VERIFY THAT OVERALL SITE DIMENSIONS AGREE WITH THE INCREMENTAL LAYOUT DIMENSIONS AS SHOWN. ANY DISCREPANCIES WITH DIMENSIONS AND COORDINATES OR PROPERTY LINES SHALL BE ADJUSTED AND APPROVED BY THE ENGINEER.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEVELOPING HORIZONTAL AND VERTICAL CONTROL ON THE SITE BASED ON EXISTING MONUMENTS. ALL COSTS INVOLVED IN LOCATING THE EXISTING MONUMENTS AND CARRYING THE STAKING LAYOUT TO THE SITE SHALL BE BORNE BY THE CONTRACTOR.
8. CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL EXISTING UTILITIES PRIOR TO COMMENCING OF CONSTRUCTION AND FOR AVOIDING CONFLICT WITH SAME. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED AT THE EXPENSE OF THE CONTRACTOR.
9. CONTRACTOR TO VERIFY ACTUAL BUILDING DIMENSIONS WITH ARCH. PLANS.
10. ALL RADII ARE 5' UNLESS OTHERWISE NOTED.

SHARED PARKING CALCULATIONS:

EXISTING SINGLE STORY MULTIPLE BAY SHOPPING CENTER AREA
+/-9,055 SF GROSS LEASABLE AREA (NO RESTAURANTS EXIST CURRENTLY)
EXISTING PARKING = 26 SPACES (INCLUDES 2 HC SPACES)

PROPOSED SINGLE STORY MULTIPLE BAY SHOPPING CENTER
*RETAIL, MULTI TENANT SHOPPING CENTERS W/ <20% RESTAURANT SPACE PER ZONING ORDINANCE JUNE 2023 (PDF)
REQUIRED (<75,000 SF W/ 20% OR LESS OF RESTAURANT SPACE*):
=> 100% RETAIL: 4 SPACES/ 1,000 SF UFA = 9,160 SF*1.0/1,000*4 =37 SPACES
=> TOTAL REQUIRED NEW BLDG = 37 SPACES
=> TOTAL PROVIDED NEW BLDG = 47 SPACES

=>TOTAL SHARED PARKING PROVIDED = 73 SPACES (INCLUDES 3 HC SPACES)

*RESTAURANT NOTE: <20% RESTAURANT SPACE IS FOR BOTH BUILDINGS (E) & (N); THEREFORE, BETWEEN THE EIGHT (8) TOTAL TENANT BAYS, ONLY ONE (1) BAY SHALL BE USED FOR A RESTAURANT.

FIRE PROTECTION WATER :

AS PER 2018 IBC :
1. RETAIL = M OCCUPANCY (SECTION 309.1)
2. SPRINKLER PROTECTION IS NOT REQUIRED AS PER SECTION 903.2.7.

SITE FIRE PROTECTION NOTES :

1. ACCESS FOR FIREFIGHTING
3310.10 REQUIRED ACCESS.
APPROVED VEHICLE ACCESS FOR FIREFIGHTING SHALL BE PROVIDED TO ALL CONSTRUCTION OR DEMOLITION SITES. VEHICLE ACCESS SHALL BE PROVIDED TO WITHIN 100 FEET OF TEMPORARY OR PERMANENT FIRE DEPARTMENT CONNECTIONS. VEHICLE ACCESS SHALL BE PROVIDED BY EITHER TEMPORARY OR PERMANENT ROADS CAPABLE OF SUPPORTING VEHICLE LOADING UNDER ALL WEATHER CONDITIONS. VEHICLE ACCESS SHALL BE MAINTAINED UNTIL PERMANENT FIRE APPARATUS ROADS ARE AVAILABLE.
2. FIRE LANE SIGNS SHALL BE SPACED AT A MINIMUM OF 200 FEET APART, SIZE TO BE 12" x 18" WITH A WHITE REFLECTING BACKGROUND AND RED LETTERS AND SHALL READ AS FOLLOWS: "FIRE LANE - NO PARKING - TOW-AWAY ZONE".
3. AS PER FIRE CODE, FIRE FIGHTING APPARATUS MUST BE ABLE TO ACCESS TO WITHIN 150' OF ANY PART OF BUILDING.

PAVEMENT MARKING NOTES :

1. ALL SIGNAGE AND STRIPING SHALL BE IN ACCORDANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DESIGN (MUTCD)".

PORT WENTWORTH ORDINANCE NOTES :

1. CONTRACTOR IS TO VERIFY ALL BSLS, BUFFERS, ETC. WITH THE CITY OF PORT WENTWORTH PLANNING AND ZONING DEPARTMENT PRIOR TO CONSTRUCTION ACTIVITIES.

SPECIAL ORDINANCE NOTE :

IN CASE OF CONFLICT BETWEEN THESE PLANS AND THE CITY OF PORT WENTWORTH'S ORDINANCES STANDARDS, SPECIFICATIONS OR DETAILS, THE CITY OF PORT WENTWORTH'S, STANDARDS ARE TO TAKE PRECEDENCE.

SPECIAL HANDICAP RAMP NOTES :

1. ALL HANDICAP RAMPS SHALL BE CONSTRUCTED AND "TINTED" AS PER ADA GUIDELINES AND REQUIREMENTS.

STOP SIGN AND STOP BAR INSTALLATION NOTES :

1. STOP BARS ARE TO BE WHITE, 24" WIDE x 12' LONG, INSTALLED 6'-0" FROM THE INTERSECTING ROAD PAVEMENT EDGE AS PER MUTCD 3B.16.
2. STOP SIGNS ARE TO BE INSTALLED ALLIGNED WITH THE STOP BARS AS PER MUTCD 3B.16.

GREENSPACE CALCULATIONS :

TOTAL SITE = 2.11 AC.
PAVING / BUILDING / ETC. = 1.39 AC.
GREENSPACE = 0.72 AC.
0.72 AC / 2.11AC = 0.3349 = 34 % GREENSPACE

TRAFFIC / RIGHT-OF-WAY AND DISCHARGE NOTES:

1. ALL ROAD CLOSINGS, DETOURS AND ETC. ARE TO BE COORDINATED WITH THE CITY OF PORT WENTWORTH, GEORGIA.
2. ANY AND ALL NECESSARY PERMITS MUST BE OBTAINED FROM THE CITY OF PORT WENT WORTH PRIOR TO COMMENCEMENT OF ANY WORK.
3. CONTRACTOR IS TO OBTAIN A R.O.W. PERMIT PRIOR TO PERFORMING ANY WORK WITHIN CITY OF PORT WENTWORTH RIGHT-OF-WAY.
4. CHLORINATED DISINFECTED WATER SHALL NOT BE DISCHARGED INTO THE STORMWATER SYSTEM.

SITE LIGHTING NOTE :

ALL SITE LIGHTING IS TO BE AS PER OWNER AND IS TO BE COORDINATED WITH OWNER FOR POLE PLACEMENT, APPROVAL BY CITY OF PORT WENTWORTH, ETC.

SIDEWALK NOTES :

1. ALL SIDEWALKS ARE TO BE ADA COMPLIANT.
~~2. PEDESTRIAN PATHS IN PARKING AREAS ARE TO BE 5' WIDE - PATTERN, COLOR AND TEXTURE TO BE COORDINATED WITH OWNER AND THE CITY OF PORT.~~

SPECIAL CONSTRUCTION NOTE:

IF THE CONTRACTOR KNOWS OR CAN REASONABLY BE EXPECTED TO HAVE KNOWN OF AN ERROR, DISCREPANCY OR CONFLICT IN THE PLANS, SPECIFICATIONS OR CONSTRUCTION STAKING AND FAILS TO REPORT THE PROBLEM PRIOR TO CONSTRUCTION, HE SHALL NOT BE ENTITLED TO COMPENSATION FOR ANY WORK OR EXPENSE INCURRED BY HIM FOR WORK REQUIRED TO BE RE-CONSTRUCTED BECAUSE OF SAID ERROR, DISCREPANCY OR CONFLICT.

SCALE: 1" = 20'
0 20' 40' 50'

BOSWELL DESIGN SERVICES, INC.
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Unit K, Suite 104
MAILING : 103 NASSAU DRIVE
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LAHBOS@Bellsouth.net

REVISIONS

DESIGNED: ---
DRAWN: MAB
CHECKED: ---
DATE: NOV. 26, 2024
JOB NO. ---
SCALE: as shown

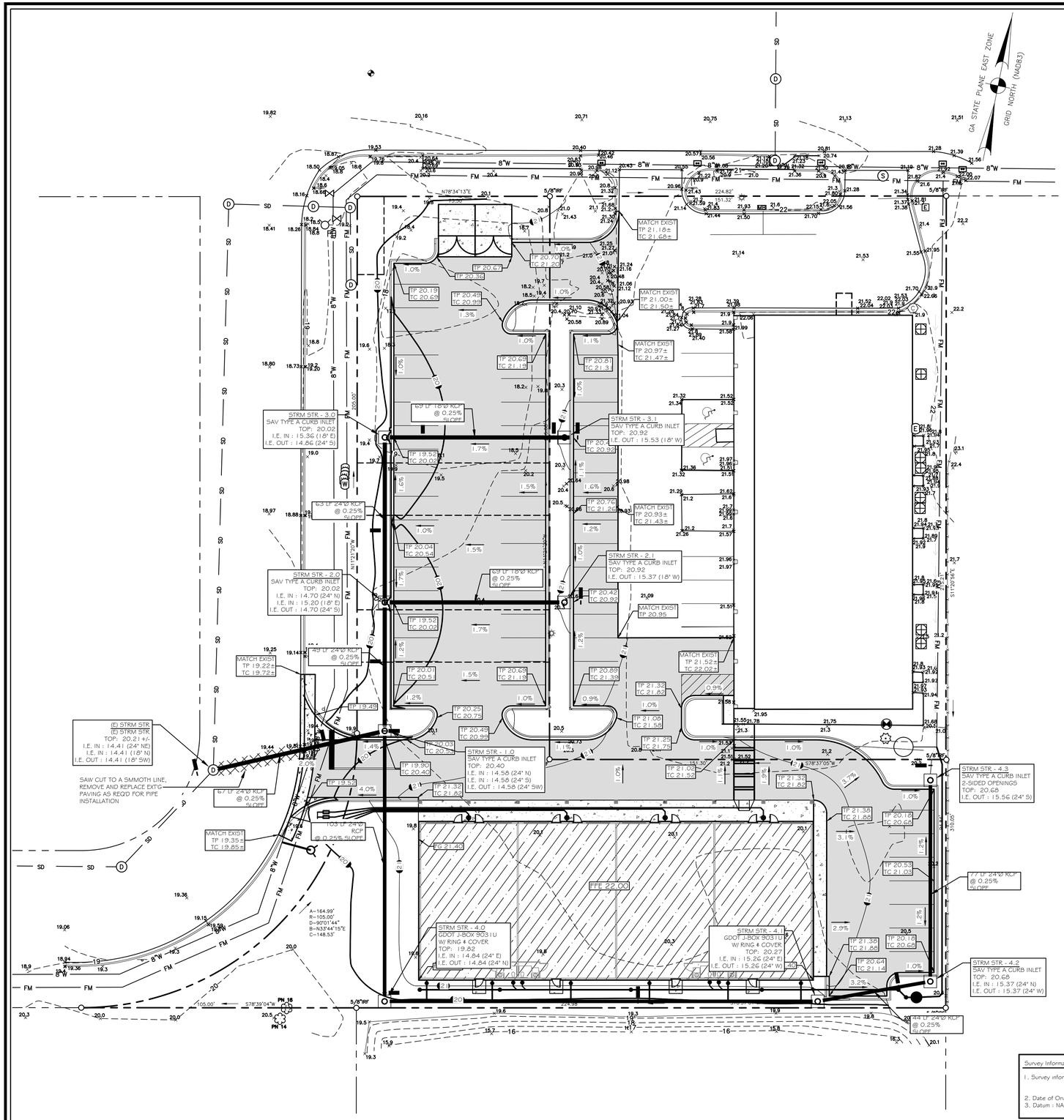
SHOPPING CENTER DEVELOPMENT SITEWORK PLANS
0 OLD RICHMOND ROAD
PORT WENTWORTH, GA 31407
FOR
NISHANT RANDERWALA
PORT WENTWORTH, GA

STAKING AND SIGNING PLAN

CONTACT A MINIMUM OF 72 HOURS PRIOR TO DIGGING
GEORGIA UTILITIES PROTECTION CENTER
811 BEFORE YOU DIG
UTILITIES PROTECTION CENTER
1-800-282-7411

GEORGIA REGISTERED No. 28372 PROFESSIONAL ENGINEER
Mark Boswell
11-26-24
MARK A. BOSWELL

DRAWING NUMBER
C-4
4 OF 28 SHEETS



PAVING, GRADING AND DRAINAGE PLAN

1" = 20'

GEOTECHNICAL NOTES :

1. A GEOTECHNICAL INVESTIGATION SHOULD BE PERFORMED PRIOR TO PAVING ROADS FOR PAVEMENT DESIGN RECOMMENDATIONS AND AS PER THE CITY OF POOLER'S STANDARD DETAIL.

2. IT IS STRONGLY RECOMMENDED THAT A GEOTECHNICAL INVESTIGATION IS PERFORMED BY A REGISTERED GEOTECHNICAL ENGINEER IN THE STATE OF GEORGIA PRIOR TO BUILDING SLABS BEING POURED FOR RECOMMENDATIONS FOR SOCK DRAINS, FOUNDATION DESIGN, ETC.

FEMA MAP NOTES :

1. THIS DEVELOPMENT IS WITHIN FLOOD ZONE AREA "X" ACCORDING TO F.I.R.M. COMMUNITY PANEL NUMBER 13051C0030G, MAP REVISED AUGUST 16, 2018 (NAVD 88).

2. THIS SITE IS IN ZONE "X" AND IS NOT LOCATED WITHIN THE 100 YEAR FLOOD ZONE.

3. CONTRACTOR IS TO VERIFY FEMA ELEVATIONS PRIOR TO ANY CONSTRUCTION ACTIVITIES.

SPECIAL ORDINANCE NOTE :

IN CASE OF CONFLICT BETWEEN THESE PLANS AND THE CITY OF PORT WENTWORTH'S ORDINANCES STANDARDS, SPECIFICATIONS OR DETAILS, THE CITY OF PORT WENTWORTH'S, STANDARDS ARE TO TAKE PRECEDENCE.

SPECIAL DETENTION POND NOTE :

DETENTION FOR THIS PROJECT IS BEING ACHIEVED BY UTILIZING THE EXTG PARK DETENTION POND AND THERFORE DETENTION IS NOT BEING PLANNED FOR THIS PROJECT.

STORM AND UTILITIES MANHOLE AND BOX NOTES :

1. INVERT ELEVATIONS ARE TO BE CONSIDERED AS PIPE INVERTS AND NOT AS THE INVERT OF THE MANHOLE, BOX, ETC.

CULVERT PIPE INSTALLATION NOTES :

1. CULVERTS ARE TO BE INSTALLED AS PER CITY OF PORT WENTWORTH'S DETAILS AND SPECS.
2. CULVERT DETAILS AND SPECS WERE NOT AVAILABLE AT THE TIME OF THIS SUBMITTAL AND SHALL BE OBTAINED FROM CITY OF PORT WENTWORTH'S STORMWATER DEPARTMENT.

FIRE PROTECTION WATER :

AS PER 2018 IBC :
1. RETAIL = M OCCUPANCY (SECTION 309.1)
2. SPRINKLER PROTECTION IS NOT REQUIRED AS PER SECTION 903.2.7.

SPECIAL AE AND VE ZONE NOTES :

1. BUILDINGS IN "AE" ZONES ARE TO HAVE THE FINISHED FLOOR SET A MINIMUM OF 1' ABOVE FLOOD.

2. BUILDINGS IN "VE" ZONES ARE TO HAVE THE LOWEST HORIZONTAL STRUCTURAL MEMBER SET A MINIMUM OF 1' ABOVE FLOOD.

3. BUILDINGS IN AE AND VE ZONES ARE TO HAVE ALL ELECTRICAL, PLUMBING, HVAC, DUCTWORK AND OTHER EQUIPMENT TO BE A MINIMUM OF 1' ABOVE FLOOD.

4. FLOOD VENTS ARE REQUIRED IN "AE" ZONES AND ARE TO HAVE 1 SQUARE INCH / SQUARE FOOT OF ENCLOSED AREA WITH A MINIMUM ROUND OPENING OF 3", A MINIMUM OF 2 OPENINGS WITH ALL OPENINGS EVENLY SPACED AROUND PERIMETER. BOTTOM OF OPENING SHALL BE 12" OR LESS ABOVE ADJACENT GRADE.

5. BREAK AWAY WALLS ARE REQUIRED IN "VE" ZONES.

6. COORDINATE SITE WORK AND FINISHED FLOOR ELEVATIONS WITH ARCHITECTURAL PLANS TO MAKE SURE BUILDING ELEVATIONS ARE SET AS PER CODE.

NOTES:

1. CONTRACTOR IS TO COORDINATE ALL GAS, LIGHTING, ELECTRICAL, PHONE, CABLE AND ANY OTHER REQUIRED UTILITIES WITH THE APPROPRIATE UTILITY AGENCIES.

2. CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL EXISTING UTILITIES PRIOR TO COMMENCING OF CONSTRUCTION ACTIVITIES AND FOR AVOIDING CONFLICT WITH SAME. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED AT THE EXPENSE OF THE CONTRACTOR.

3. CONTRACTOR IS TO COORDINATE ALL DEMOLITION WORK WITH THE OWNER. ALL ITEMS NOT TO BE RELOCATED OR GIVEN TO THE OWNER WILL BECOME THE PROPERTY OF THE CONTRACTOR.

4. REMOVE ALL TREES AS NECESSARY FOR PROPOSED CONSTRUCTION.

SPECIAL F.F. NOTES :

1. CONTRACTOR TO VERIFY FEMA ELEVATIONS PRIOR TO ANY CONSTRUCTION ACTIVITIES AND COORDINATE WITH GOVERNING AGENCY REQUIREMENTS.

2. CONTRACTOR TO COORDINATE FINISH FLOOR ELEVATIONS WITH STRUCTURAL, ARCHITECTURAL AND M.E.P. PLANS.

SITE FIRE PROTECTION NOTES :

1. ACCESS FOR FIREFIGHTING
3310.1 REQUIRED ACCESS.
APPROVED VEHICLE ACCESS FOR FIREFIGHTING SHALL BE PROVIDED TO ALL CONSTRUCTION OR DEMOLITION SITES. VEHICLE ACCESS SHALL BE PROVIDED TO WITHIN 100 FEET OF TEMPORARY OR PERMANENT FIRE DEPARTMENT CONNECTIONS. VEHICLE ACCESS SHALL BE PROVIDED BY EITHER TEMPORARY OR PERMANENT ROADS CAPABLE OF SUPPORTING VEHICLE LOADING UNDER ALL WEATHER CONDITIONS. VEHICLE ACCESS SHALL BE MAINTAINED UNTIL PERMANENT FIRE APPARATUS ROADS ARE AVAILABLE.

2. FIRE LANE SIGNS SHALL BE SPACED AT A MINIMUM OF 200 FEET APART, SIZE TO BE 12" x 18" WITH A WHITE REFLECTING BACKGROUND AND RED LETTERS AND SHALL READ AS FOLLOWS: "FIRE LANE - NO PARKING - TOW-AWAY ZONE".

3. AS PER FIRE CODE, FIRE FIGHTING APPARATUS MUST BE ABLE TO ACCESS TO WITHIN 150' OF ANY PART OF BUILDING.

SPECIAL CONSTRUCTION NOTES :

1. SITE AND BUILDING CONTRACTOR IS TO OBTAIN, REVIEW AND FOLLOW THE RECOMMENDATIONS SET FORTH BY THE GOETECHNICAL REPORT.

2. GROUNDWATER MUST BE LOWERED DURING CONSTRUCTION BY ANY MEANS APPROVED BY THE GEOTECHNICAL ENGINEER.

3. DE-WATERING MAY BE ACCOMPLISHED BY WELLPOINTS AND / OR DITCHES WITH SUMPS AND PUMPS.

4. STRIPPING OF PROJECT SITE DEPTHS MAY BE FROM 2 TO IN EXCESS OF 5 FEET BELOW THE GROUND SURFACE.

5. FILL AND / OR BACKFILL SHALL CONSIST OF COARSE-GRAINED SOILS CLASSIFIED AS SW, SP, SM OR SP-SM WITH A MAXIMUM OF 15% PASSING A #200 SIEVE.

6. BACKFILL FOR PAVING SHALL BE PLACED IN 6 INCH LIFTS AND COMPACTED TO 95% DENSITY IN ACCORDANCE WITH ASTM D-1557.

7. ANY TRENCH LEFT VACANT (from relocate) UTILITIES, STUMP HOLES, ETC. SHALL BE BACKFILLED WITH APPROVED SOIL, PLACED IN 6 INCH LIFTS AND COMPACTED TO 95% DENSITY IN ACCORDANCE WITH ASTM D-1557.

8. SUBGRADE SHALL BE PROOF ROLLEN WITH A LOADED DUMP TRUCK. ANY "PUMPING" OR UNSTABLE AREAS SHALL BE REMOVED AND REPLACED AS PER SPECIAL CONSTRUCTION NOTE #6. IN THE CASE OF EXCESSIVE MOISTURE, THE AREA MAY BE ALLOWED TO DRY AND RE-PROOF ROLLED.

9. ALL FILL SOILS FOR THIS PROJECT SHALL BE AS PER SPECIAL CONSTRUCTION NOTE #5.

10. SOILS CLASSIFIED AS MH, CH, CC OR SC WILL NOT BE ACCEPTABLE.

11. ALL FOOTING EXCAVATIONS AND SLAB SUBGRADES SHALL BE COMPACTED TO A MINIMUM OF 95% IN ACCORDANCE WITH ASTM D-1557.

12. SLABS ON GRADE SHOULD BE SUPPORTED BY A MINIMUM OF 4 INCHES OF GRANULAR FREE DRAINING GRAVEL OR COARSE SAND TO REMOVE MOISTURE.

13. A VAPOR RETARDING MEMBRANE SHALL BE PLACED BETWEEN GRANULAR BASE AND CONCRETE TO PREVENT MIGRATION.

REAR

FRONT

TYP ROOF PLAN

SIDEWALK NOTES :

1. ALL SIDEWALKS ARE TO BE ADA COMPLIANT.
~~2. PEDESTRIAN PATHS IN PARKING AREAS ARE TO BE 6' WIDE - PATTERN, COLOR AND TEXTURE TO BE COORDINATED WITH OWNER AND THE CITY OF PORT WENTWORTH.~~

GENERAL NOTES:

1. *SEE SHEET C2 FOR LEGEND.*
2. *LIMITS OF GRADING AND GRASSING ARE INDICATED ON THE SOIL EROSION AND SEDIMENT CONTROL PLANS AS "LIMITS OF DISTURBANCE".*
3. *CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL EXISTING UTILITIES PRIOR TO COMMENCING OF CONSTRUCTION AND FOR AVOIDING CONFLICT WITH SAME. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED AT THE EXPENSE OF THE CONTRACTOR.*
4. *ALL DISTURBED AREAS FROM NEW CONSTRUCTION ACTIVITIES WILL BE SEEDED, MULCHED, FERTILIZED AND WATERED TO PROMOTE A SUFFICIENT GROUND COVER THAT WILL PREVENT SOIL EROSION.*
5. *DRAINAGE: ALL EXCAVATION SHALL BE PERFORMED SO THAT THE SITE AND THE AREA IMMEDIATELY SURROUNDING THE SITE WHICH EFFECTS THE OPERATIONS WILL BE CONTINUALLY AND EFFECTIVELY DRAINED. SURFACE WATER, GROUNDWATER, OR ANY PERCHED WATER WHICH MIGHT BE ENCOUNTERED DURING EXCAVATIONS SHALL BE REMOVED BY ANY ACCEPTABLE MEANS APPROVED BY THE ENGINEER.*
6. *ELEVATIONS ARE BASED ON NAVD 88 DATUM. SEE C2 FOR ELEVATION DATUM.*
7. *CONTRACTOR TO VERIFY ALL EXISTING AND PROPOSED STRUCTURE LOCATIONS (drainage, sanitary, etc.) TOPS AND DEPTHS PRIOR TO ORDERING MATERIALS OR BEGINNING CONSTRUCTION.*
8. ~~DETENTION BASIN MAY BE ENLARGED (not deepened) TO GAIN FILL FOR CONSTRUCTION IF THE MATERIAL IS SATISFACTORY.~~
9. ~~DETENTION BASIN IS TO BE CONSTRUCTED WITH 3:1 SIDESLOPES.~~
10. ~~DETENTION BASIN IS TO BE SODDED TO PREVENT EROSION.~~
11. 18" CURB AND GUTTER (if required) TO BE CONCRETE.
12. #12 GA. WIRE SHALL BE INSTALLED ABOVE ALL STORM PIPES AT 1 TO 2 FEET ABOVE PIPE.
13. ALL STORM PIPE JOINTS SHALL BE WRAPPED WITH FILTER FABRIC.
14. SEE UTILITY PLAN FOR PIPE SEPARATION NOTES.
15. PARKING AREA IS TO BE PRIVATELY OWNED AND MAINTAINED.

STREAM BUFFER ENCROACHMENT NOTES :

1. NEW STRUCTURES ON THIS PROJECT DO NOT ENCROACH IN THE 25 OR 50 FOOT STREAM BUFFER.

2. NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 OR 50 FOOT UNDISTURBED STREAM BUFFERS AS MEASURED FROM THE POINT OF WRESTED VEGETATION OR WITHIN 25 FEET OF THE COASTAL MARSHLAND BUFFER AS MEASURED FROM THE JURISDICTIONAL DETERMINATION LINE WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS.

Survey Information :

1. Survey information : Brewer Land Surveying (supplied by owner)
2. Date of Original Survey : August 09, 2024
3. Datum : NAVD 88

PARKING OWNERSHIP NOTES :

1. PARKING AREAS ARE TO BE PRIVATELY OWNED AND MAINTAINED.

SPECIAL CONSTRUCTION NOTE:

IF THE CONTRACTOR KNOWS OR CAN REASONABLY BE EXPECTED TO HAVE KNOWN OF AN ERROR, DISCREPANCY OR CONFLICT IN THE PLANS, SPECIFICATIONS OR CONSTRUCTION STAKING AND FAILS TO REPORT THE PROBLEM PRIOR TO CONSTRUCTION, HE SHALL NOT BE ENTITLED TO COMPENSATION FOR ANY WORK OR EXPENSE INCURRED BY HIM FOR WORK REQUIRED TO BE RE-CONSTRUCTED BECAUSE OF SAID ERROR, DISCREPANCY OR CONFLICT.

SCALE: 1" = 20'
0 20' 40' 50'

REVISIONS

BOSWELL DESIGN SERVICES, INC.
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LAHBOS@Bellsouth.net

DESIGNED: ---
DRAWN: MAB
CHECKED: ---
DATE: NOV. 26, 2024
JOB NO. ---
SCALE: as shown

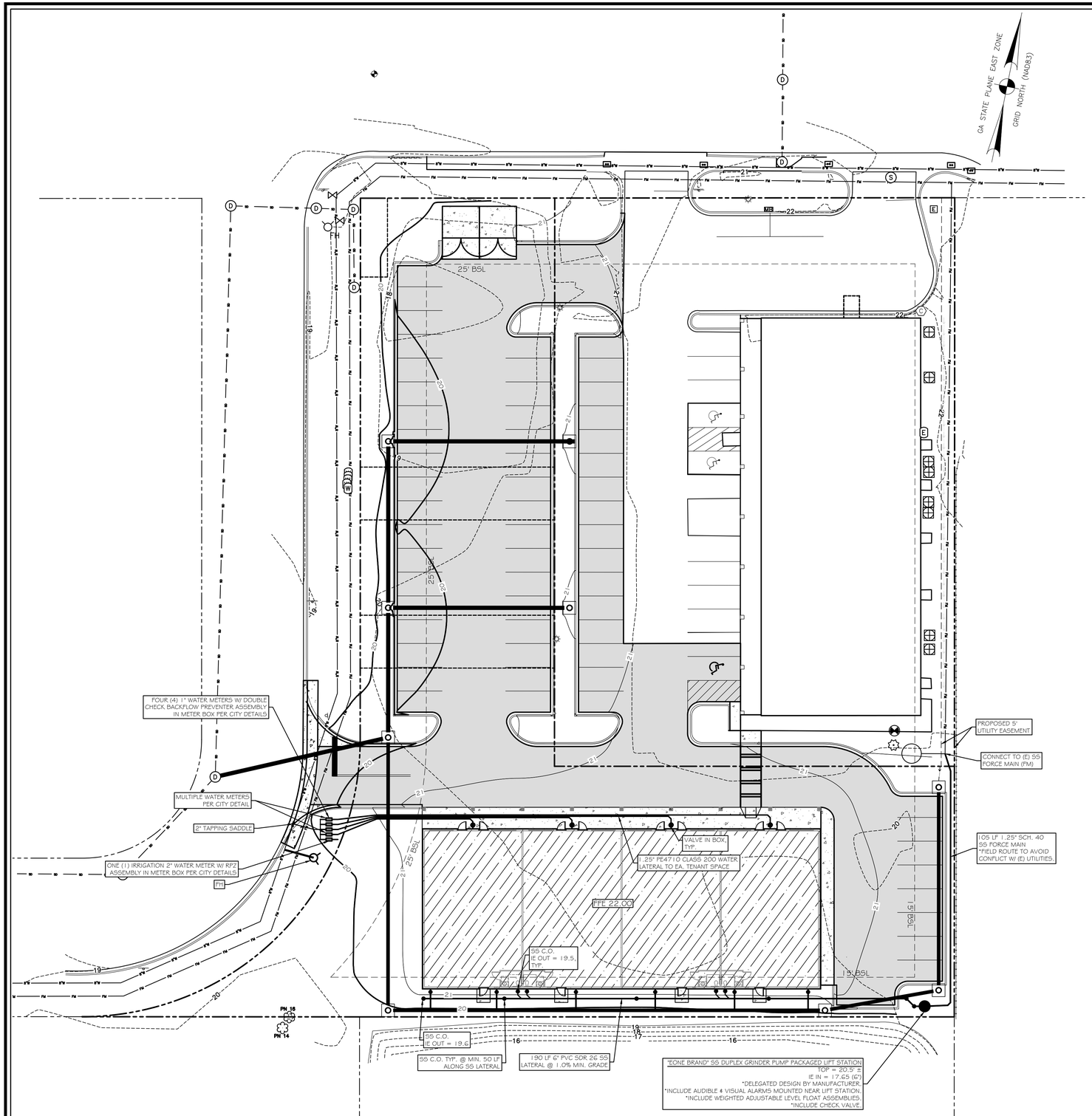
SHOPPING CENTER DEVELOPMENT SITEWORK PLANS
0 OLD RICHMOND ROAD
PORT WENTWORTH, GA 31407
FOR
NISHANT RANDERWALA
FORT WENTWORTH, GA

PAVING, GRADING AND DRAINAGE PLAN

CONTACT A MINIMUM OF 72 HOURS PRIOR TO DIGGING
GEORGIA 811 UTILITIES PROTECTION CENTER
UTILITIES PROTECTION CENTER
1-800-282-7411

GEORGIA REGISTERED No. 28372 PROFESSIONAL ENGINEER
Mark Boswell
11-26-24
MARK A. BOSWELL

DRAWING NUMBER
C-5
5 OF 28 SHEETS



UTILITY PLAN
1" = 20'

SPECIAL UTILITY TERMINATION NOTES :

1. ALL UTILITIES (WATER, SEWER, GAS, ELECTRIC, ETC.) NOT TO BE USED ON THIS PROJECT ARE TO BE TERMINATED AS PER THE UTILITY PROVIDERS INSTRUCTIONS.

2. ALL UTILITY TERMINATIONS ARE TO BE COORDINATED WITH THE UTILITY PROVIDER, OWNER AND CITY OF PORT WENTWORTH.

FEMA MAP NOTES :

1. THIS DEVELOPMENT IS WITHIN FLOOD ZONE AREA "X" ACCORDING TO F.I.R.M. COMMUNITY PANEL NUMBER 13051C0030G, MAP REVISED AUGUST 16, 2018 (NAVD 88).

2. THIS SITE IS IN ZONE "X" AND IS NOT LOCATED WITHIN THE 100 YEAR FLOOD ZONE.

3. CONTRACTOR IS TO VERIFY FEMA ELEVATIONS PRIOR TO ANY CONSTRUCTION ACTIVITIES.

UTILITY OWNERSHIP NOTES :

1. WATER SYSTEMS BEHIND METERS ARE TO BE PRIVATELY OWNED AND MAINTAINED.
2. SANITARY SEWER LIFT STATION & FORCE MAIN ARE TO BE PRIVATELY OWNED AND MAINTAINED.

SPECIAL ORDINANCE NOTE :

IN CASE OF CONFLICT BETWEEN THESE PLANS AND THE CITY OF PORT WENTWORTH'S ORDINANCES STANDARDS, SPECIFICATIONS OR DETAILS, THE CITY OF PORT WENTWORTH'S, STANDARDS ARE TO TAKE PRECEDENCE.

SPECIAL WATER LINE NOTES :

1. ALL WATER METERS ENCOUNTERED ON THE PROJECT SITE, WHETHER SHOWN ON THE PLANS OR NOT, SHALL BE DISCONNECTED AND RETURNED TO THE CITY OF PORT WENTWORTH WATER AND SEWER DEPARTMENT.

2. ALL LATERALS WHICH ARE REMOVED FROM SERVICE SHALL BE CAPPED AS CLOSE TO THE MAIN AS PRACTICAL WITHOUT REMOVING ROADWAY. THIS WORK IS TO BE COORDINATED WITH THE CITY OF PORT WENTWORTH WATER AND SEWER DEPARTMENT.

TRACER WIRE NOTES :

1. ALL WATER MAINS, WATER LATERALS AND FIRE HYDRANTS ARE TO HAVE A #12 GAUGE SOLID COPPER WIRE INSTALLED WITH EACH UTILITY. IT SHALL BE INSTALLED IN SUCH A MANNER THAT THE WIRES ARE CONNECTED TO EACH OTHER AND CAN BE CONTINUOUSLY TRACED. THE WATER DEPARTMENT SHALL CONDUCT A TRACING TEST TO ENSURE COMPLIANCE.

DROP MANHOLE NOTES :

1. DROP MANHOLES SHALL BE PRECAST CONFORMING TO ASTM C478 AND SHALL BE BUILT AT THE LOCATIONS AND IN CONFORMANCE WITH THE DETAILS SHOWN WHERE THE DIFFERENCE IN IE ELEVATION BETWEEN THE INCOMING PIPE AND MANHOLE IE IS MORE THAN 2 FEET.
2. PROTECTIVE COATINGS ARE REQUIRED FOR ALL WET WELLS, RECEIVING MANHOLES, DROP MANHOLES, ANY STRUCTURE WHERE A FORCE MAIN TERMINATES OR HIGH LEVELS OF CORROSION ARE ANTICIPATED.

SPECIAL WATER LINE NOTES :

1. Pipe, fittings, valves and other accessories shall, unless otherwise directed, be unloaded at the point of delivery and stored where they will be protected and will not be hazardous to traffic. They shall at all times be handled with care to avoid damage. The interior of all pipe, fittings and other accessories shall be kept free from dirt and foreign matter at all times.

2. Any defective, damaged, or unsound pipe shall be rejected. All foreign matter or dirt shall be removed from the inside of the pipe before it is lowered into it's position in the trench and shall be kept clean by approved means during and after laying. Care shall be taken to prevent dirt from entering the joint space. During installation, when pipe laying is not in progress, a mechanical joint plug or cap, or approved equal, will be used to form a water tight seal at both ends of the line being laid and no trench water shall be permitted to enter the pipe.

3. Clean the interiors of all pipe by brushing, swabbing or washing out all dirt before placement.

4. Flush the new pipe lines until the water runs clear at the end of all mains and laterals. This should be done after the pressure test and before disinfection. Minimum flush time and velocity are to be 2.5 fps which is necessary to purge the line of foreign material.

5. All materials used and come into contact with drinking water during its distribution shall not adversely affect drinking water quality and public health and must be certified for conformance with American National Standards Institute/National Sanitation Foundation Standard 61 (ANSI/NSF Standard 61).

6. All new sanitary sewer laterals and new mains are required to be televised at the owner's / contractor's expense.

7. All sanitary sewer laterals are required to be capped.

8. All sanitary sewer laterals shall be connected to the sewer main at a 90 degree angle.

STREAM BUFFER ENCROACHMENT NOTES :

1. NEW STRUCTURES ON THIS PROJECT DO NOT ENCROACH IN THE 25 OR 50 FOOT STREAM BUFFER.

2. NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 OR 50 FOOT UNDISTURBED STREAM BUFFERS AS MEASURED FROM THE POINT OF WRESTED VEGETATION OR WITHIN 25 FEET OF THE COASTAL MARSHLAND BUFFER AS MEASURED FROM THE JURISDICTIONAL DETERMINATION LINE WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS.

FIRE PROTECTION WATER :

AS PER 2018 IBC :
1. RETAIL = M OCCUPANCY (SECTION 309.1)
2. SPRINKLER PROTECTION IS NOT REQUIRED AS PER SECTION 903.2.7.

SITE FIRE PROTECTION NOTES :

1. ACCESS FOR FIREFIGHTING
3310.1 REQUIRED ACCESS.
APPROVED VEHICLE ACCESS FOR FIREFIGHTING SHALL BE PROVIDED TO ALL CONSTRUCTION OR DEMOLITION SITES. VEHICLE ACCESS SHALL BE PROVIDED TO WITHIN 100 FEET OF TEMPORARY OR PERMANENT FIRE DEPARTMENT CONNECTIONS. VEHICLE ACCESS SHALL BE PROVIDED BY EITHER TEMPORARY OR PERMANENT ROADS CAPABLE OF SUPPORTING VEHICLE LOADING UNDER ALL WEATHER CONDITIONS. VEHICLE ACCESS SHALL BE MAINTAINED UNTIL PERMANENT FIRE APPARATUS ROADS ARE AVAILABLE.

2. FIRE LANE SIGNS SHALL BE SPACED AT A MINIMUM OF 200 FEET APART, SIZE TO BE 12" x 18" WITH A WHITE REFLECTING BACKGROUND AND RED LETTERS AND SHALL READ AS FOLLOWS: "FIRE LANE - NO PARKING - TOW-AWAY ZONE".

3. AS PER FIRE CODE, FIRE FIGHTING APPARATUS MUST BE ABLE TO ACCESS TO WITHIN 150' OF ANY PART OF BUILDING.

Survey Information :

1. Survey information : Brewer Land Surveying (supplied by owner)

2. Date of Original Survey : August 09, 2024
3. Datum : NAVD 88

SPECIAL CONSTRUCTION NOTE:

IF THE CONTRACTOR KNOWS OR CAN REASONABLY BE EXPECTED TO HAVE KNOWN OF AN ERROR, DISCREPANCY OR CONFLICT IN THE PLANS, SPECIFICATIONS OR CONSTRUCTION STAKING AND FAILS TO REPORT THE PROBLEM PRIOR TO CONSTRUCTION, HE SHALL NOT BE ENTITLED TO COMPENSATION FOR ANY WORK OR EXPENSE INCURRED BY HIM FOR WORK REQUIRED TO BE RE-CONSTRUCTED BECAUSE OF SAID ERROR, DISCREPANCY OR CONFLICT.

SCALE: 1" = 20'
0 20' 40' 50'

REVISIONS

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912 - 897 - 6932
LAHBOS@Bellsouth.net

DESIGNED ---
DRAWN MAB
CHECKED ---
DATE : NOV. 26, 2024
JOB NO. ---
SCALE: as shown

SHOPPING CENTER DEVELOPMENT SITEWORK PLANS
0 OLD RICHMOND ROAD
PORT WENTWORTH, GA 31407
FOR
NISHANT PATEL
PORT WENTWORTH, GA

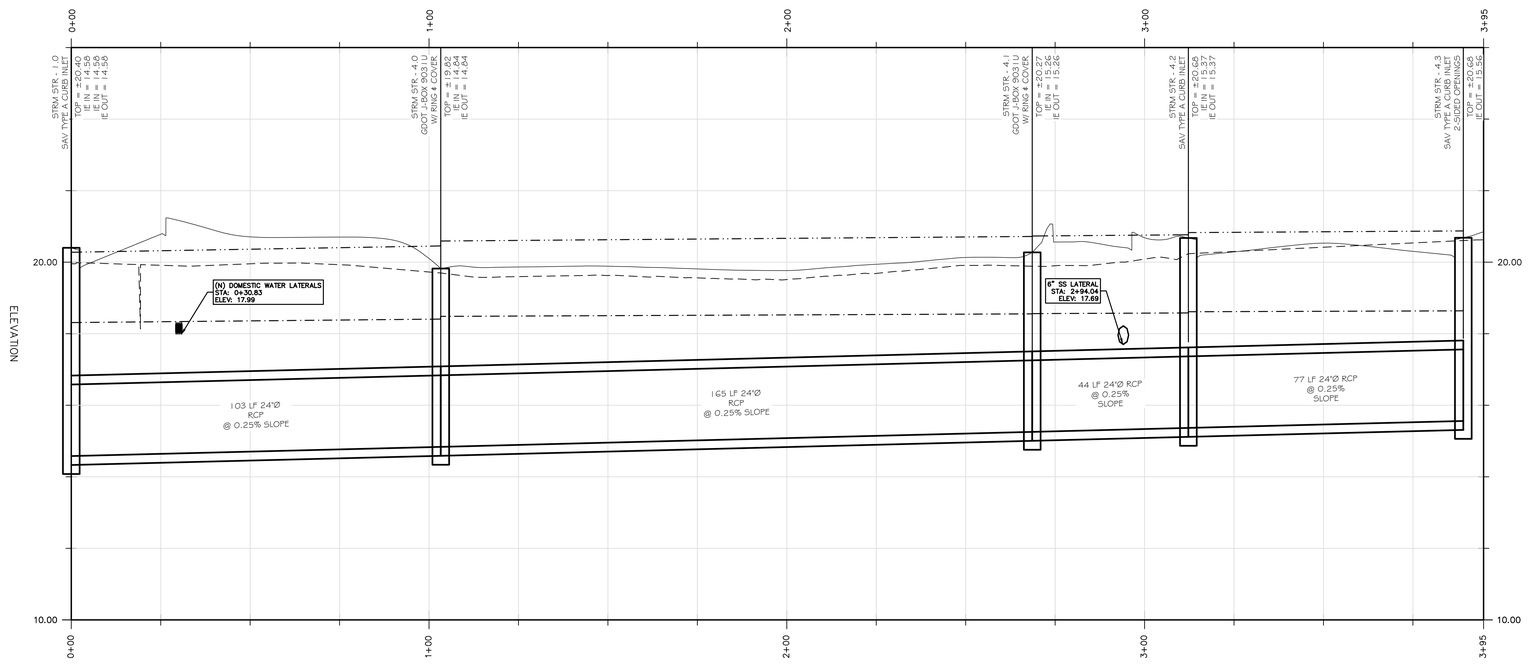
UTILITY PLAN, NOTES AND DETAILS

CONTACT A MINIMUM OF 72 HOURS PRIOR TO DIGGING
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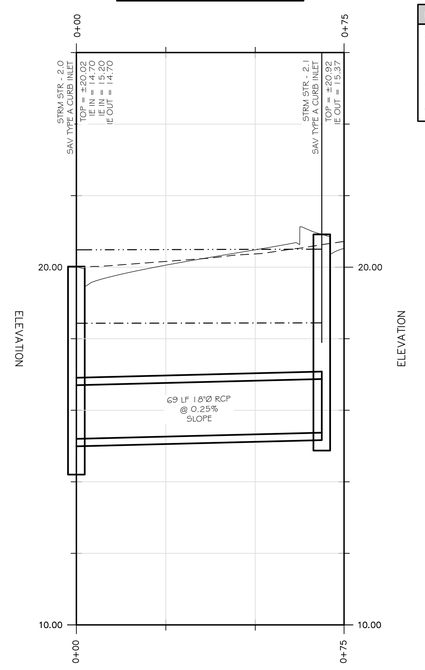
GEORGIA REGISTERED No. 28372 PROFESSIONAL ENGINEER MARK A. BOSWELL
11-26-24

DRAWING NUMBER
C-6
6 OF 28 SHEETS

STRM ALIGN 1.0-4.0
STATION: 0+00.00 THRU 3+94.75

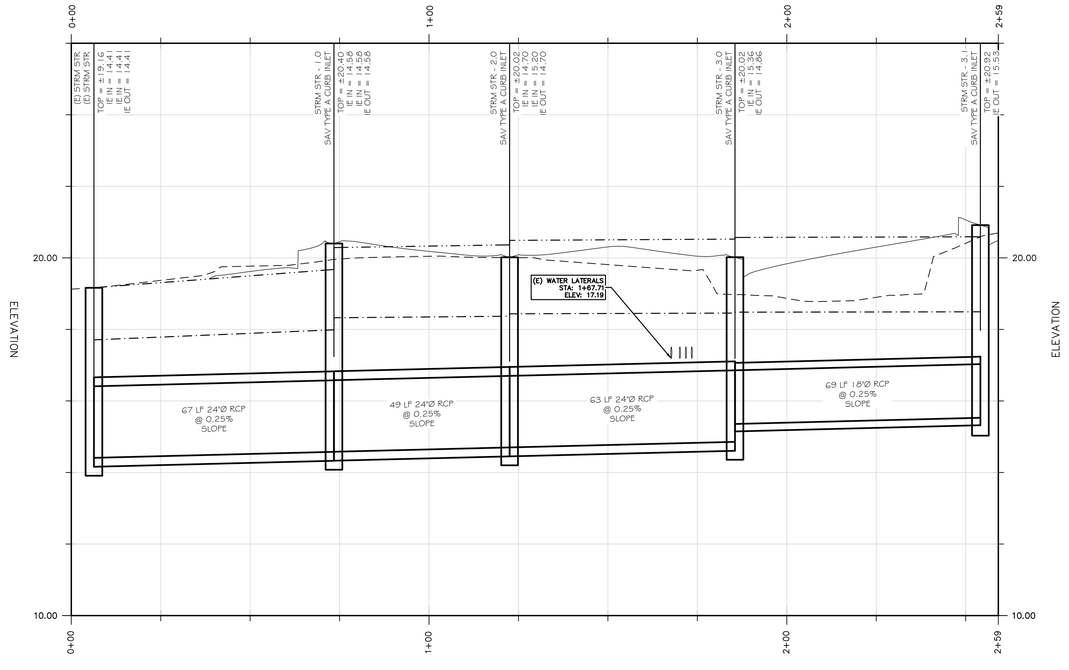


STRM ALIGN 2.0 - 2.1
STATION: 0+00.00 THRU 0+74.82



PROFILE LEGEND:
- EXISTING GRADE
- PROPOSED GRADE
- 25-YEAR HGL
- 100-YEAR HGL

STRM ALIGN 1.0 - 3.1
STATION: 0+00.00 THRU 2+59.11



SPECIAL ORDINANCE NOTE :

IN CASE OF CONFLICT BETWEEN THESE PLANS AND THE CITY OF PORT WENTWORTH'S ORDINANCES STANDARDS, SPECIFICATIONS OR DETAILS, THE CITY OF PORT WENTWORTH'S, STANDARDS ARE TO TAKE PRECEDENCE.

VERTICAL SCALE: 1" = 2'
0 2' 4' 5'

HORIZONTAL SCALE: 1" = 20'
0 20' 40' 50'

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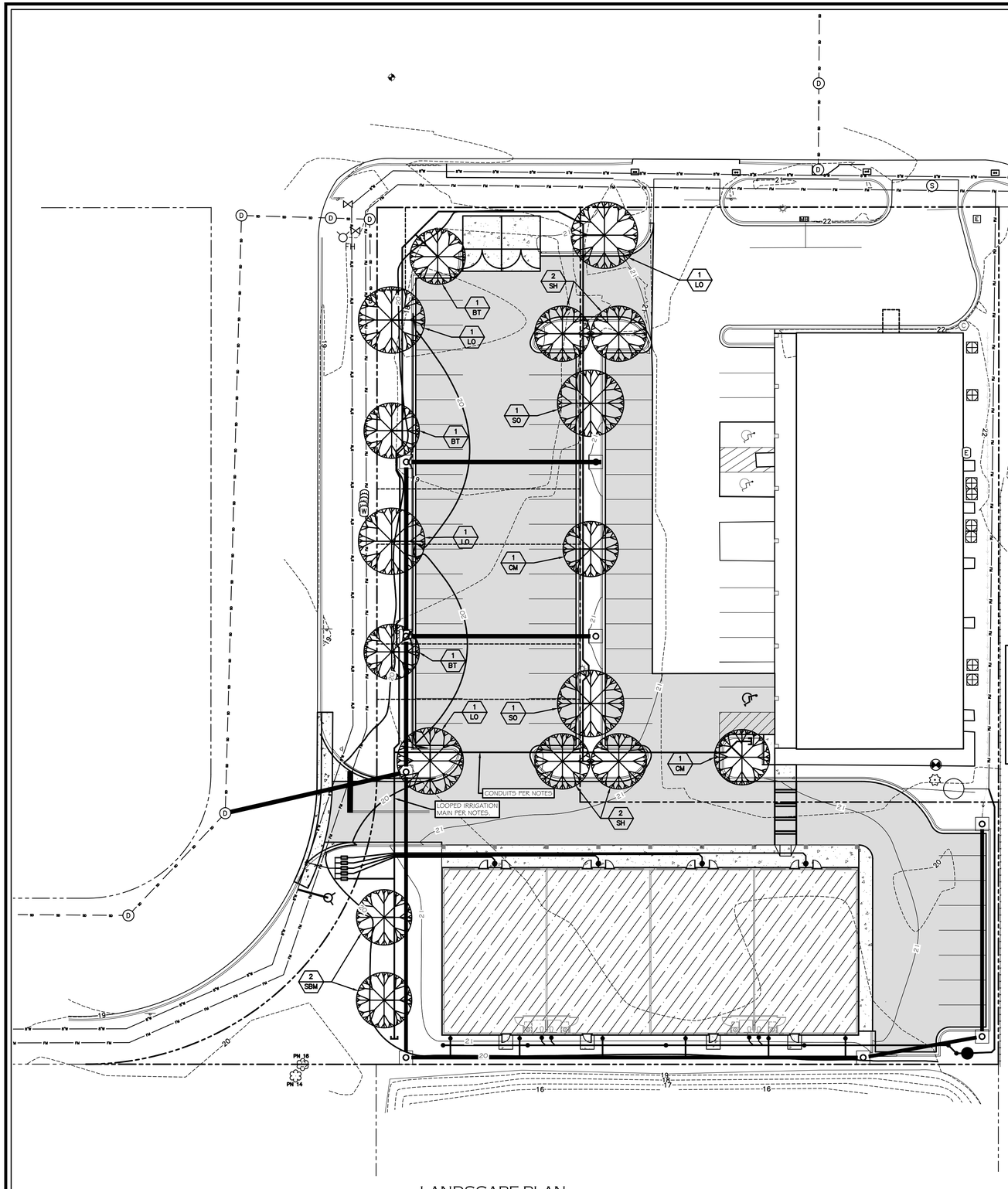
SHOPPING CENTER DEVELOPMENT SITEWORK PLANS
0 OLD RICHMOND ROAD
PORT WENTWORTH, GA 31407
FOR
NISHANT RANDERWALA
PORT WENTWORTH, GA

PROFILES AND DETAILS

CONTACT A MINIMUM OF 72 HOURS PRIOR TO DIGGING
GEORGIA UTILITIES PROTECTION CENTER
GEORGIA811.COM
811
IT'S THE LAW
UTILITIES PROTECTION CENTER
1-800-282-7411

GEORGIA REGISTERED
No. 28372
PROFESSIONAL
11-26-24
ENGINEER
MARK A. BOSWELL

DRAWING NUMBER
C-7
7 OF 28 SHEETS



LANDSCAPE PLAN

1" = 20'

SPECIAL ORDINANCE NOTE :

IN CASE OF CONFLICT BETWEEN THESE PLANS AND THE CITY OF PORT WENTWORTH'S ORDINANCES STANDARDS, SPECIFICATIONS OR DETAILS, THE CITY OF PORT WENTWORTH'S, STANDARDS ARE TO TAKE PRECEDENCE.

STREAM BUFFER ENCROACHMENT NOTES :

1 . NEW STRUCTURES ON THIS PROJECT DO NOT ENCROACH IN THE 25 OR 50 FOOT STREAM BUFFER.

2. NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 OR 50 FOOT UNDISTURBED STREAM BUFFERS AS MEASURED FROM THE POINT OF WRESTED VEGETATION OR WITHIN 25 FEET OF THE COASTAL MARSHLAND BUFFER AS MEASURED FROM THE JURISDICTIONAL DETERMINATION LINE WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS.

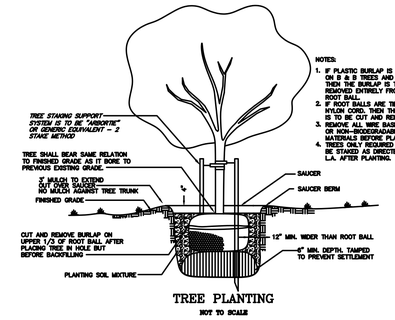
GREENSPACE CALCULATIONS :

TOTAL SITE = 2.18 AC.

PAVING / BUILDING / ETC. = 1.46AC.

GREENSPACE = 0.72 AC.

0.72 AC. / 2.18AC. = 0.3349 = 34 % GREENSPACE



TREE PLANTING

NOT TO SCALE

PLANT LEGEND

KEY	SCIENTIFIC & COMMON NAME
– / –	PLANT QUANTITY / PLANT KEY

LANDSCAPE LEGEND

- PROPOSED TREE OR SHRUB
- EXISTING TREE OR SHRUB
- PROPOSED ACCENT PLANT

PLANTED TREES AND SHRUBS

SYMBOL	NUMBER	NAME	SIZE	MATURE SIZE	QUALITY
LO	4	LIVE OAK	3" CAL.	LARGE	PREFERRED
CM	2	CREPE MYRTLE	2" CAL.	MEDIUM	PREFERRED
SM	2	SWEET BAY MAGNOLIA	2" CAL.	MEDIUM	PREFERRED
BT	3	BLACK TUPELO	2" CAL.	MEDIUM	PREFERRED
SH	4	SAVANNAH HOLLY	2" CAL.	MEDIUM	PREFERRED
SO	2	SHUMARD OAK	3" CAL.	LARGE	PREFERRED
	17	TOTAL TREES PLANTED			

SPECIAL / GENERAL IRRIGATION NOTES :

1. IRRIGATION PIPE SHALL BE PURPLE PIPE.

2. IRRIGATION PIPING, VALVES AND SPRAY HEADS SHALL BE DENOTED FOR FUTURE REUSE WATER.

3. THIS IRRIGATION SYSTEM IS TO BE CONSIDERED A GUIDE ONLY AND NOT A DESIGN.

4. FINAL IRRIGATION SYSTEM AND WELL IS TO BE DESIGNED BY A QUALIFIED LANDSCAPER OR LANDSCAPE ARCHITECT.

5. FINAL IRRIGATION SYSTEM IS TO BE APPROVED BY THE CITY OF POOLER DPW DEPARTMENT.

4. THIS PLAN IS ASSUMING A ZONED SYSTEM OF 15 GPM PER ZONE WITH ZONING TIMERS AND CONTROLLERS. A SYSTEM WHICH IS CAPABLE OF SUPPLYING 25 PSI AT THE MAIN.

5. THIS PLAN IS ASSUMING A LOOPED MAIN OF 1 1/2" DIA.

6. THIS PLAN IS ASSUMING INDIVIDUAL WATER LAT'S OF 1" DIA.

LANDSCAPE NOTES:

1. ALL TREE PLANTING PRACTICES ARE TO BE IN ACCORDANCE WITH THE CITY OF PORT WENTWORTH'S MOST RECENT TREE ORDINANCE.

2. A HORIZONTAL SEPARATION OF 10 FEET (min.) SHALL BE MAINTAINED BETWEEN PROPOSED TREES AND ANY UTILITIES(existing or proposed) OR UNDER POWER LINES.

3. PLANTED TREES MUST MEET OR EXCEED THE MINIMUM SIZES AT PLANTING IN ORDER FOR TREE QUALITY POINTS:

LARGE HARDWOOD TREE SPECIES	*3" CALIPER (diameter of stem measured six inches above the ground)*
CONIFERS, MEDIUM TREE SPECIES, SMALL TREE SPECIES,	*1" CALIPER*
SHRUBS	*3 GALLON*

4. AREAS USED FOR TREE PLANTING AREAS SHALL NOT BE USED FOR STORAGE, PARKING, ETC.

~~*5. TREE POINTS SHALL BE PURCHASED FROM CITY OF PORTWENTWORTH IF NECESSARY TO OBTAIN THE REQUIRED NUMBER OF POINTS.*~~

6. ALL DISTURBED AREAS NOT COVERED BY STRUCTURES, PAVING OR LANDSCAPING SHALL BE GRASSED.

7. ALL PLANT BEDS AND TREE RINGS SHALL BE MULCHED WITH 3" OF PINE STRAW, SHREDDED WOOD CHIPS OR PINE BARK.

8. IRRIGATION NOTES :

A. A HOSE BIBB FOR WATERING PLANTS IS TO BE LOCATED WITHIN 100' OF EACH PLANT. SEE PLANS FOR LOCATIONS.

SCALE: 1" = 20'

0 20' 40' 50'

BOSWELL DESIGN SERVICES, INC.
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LAHBOS@Bellsouth.net

REVISIONS

DESIGNED: ---
DRAWN: MAB
CHECKED: ---
DATE : NOV. 26, 2024
JOB NO. ---
SCALE: as shown

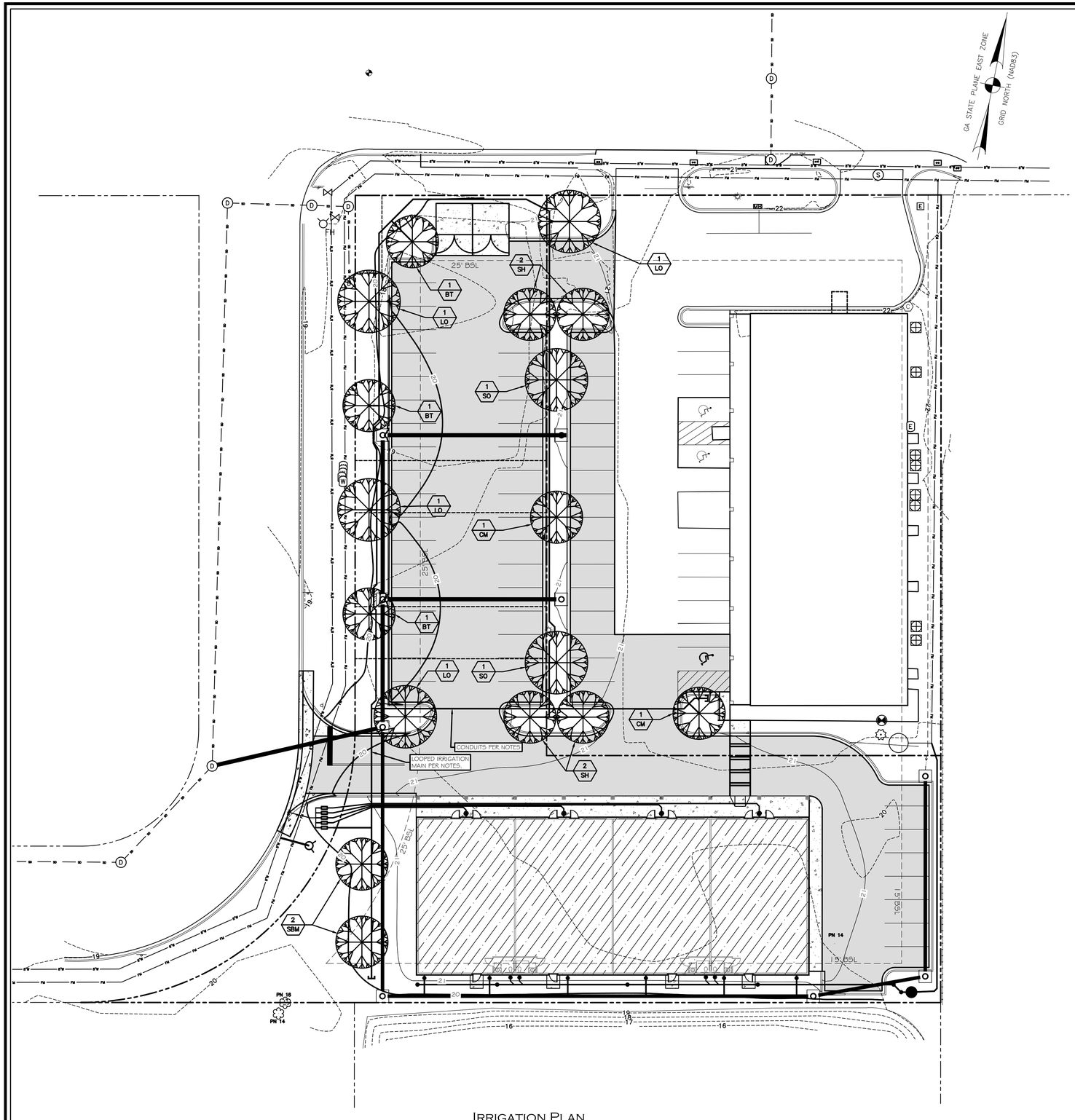
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LANDSCAPE PLAN, NOTES AND DETAILS

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GEORGIA REGISTERED No. 28372 PROFESSIONAL 11-26-24 ENGINEER MARK A. BOSWELL

DRAWING NUMBER
C-8
8 OF 28 SHEETS



Irrigation Plan

1" = 20'

Special / General Irrigation Notes :

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2. IRRIGATION PIPING, VALVES AND SPRAY HEADS SHALL BE DENOTED FOR FUTURE REUSE WATER.

3. THIS IRRIGATION SYSTEM IS TO BE CONSIDERED A GUIDE ONLY AND NOT A DESIGN.

4. FINAL IRRIGATION SYSTEM ~~AND WELL~~ IS TO BE DESIGNED BY A QUALIFIED LANDSCAPER OR LANDSCAPE ARCHITECT.

5. FINAL IRRIGATION SYSTEM IS TO BE APPROVED BY THE CITY OF POOLER ENGINEERING DEPARTMENT.

4. THIS PLAN IS ASSUMING A ZONED SYSTEM OF 50 GPM PER ZONE WITH ZONING TIMERS AND CONTROLLERS.

5. THIS PLAN IS ASSUMING INDIVIDUAL WATER LAT'S OF 1" DIA AND 2" IRRIGATION MAIN.

6. PROVIDE AND INSTALL (1) 4" SCH 40 PVC CONDUIT & (1) 2" SCH. 40 PVC CONDUIT UNDER ALL PARKING LOT PAVEMENT CROSSINGS.

7. PROVIDE BLOW OFF IN PLASTIC METER BOX AT ALL DEAD ENDS FOR IRRIGATION MAIN FLUSHING.

8. PROVIDE IRRIGATION TO ALL PLANTS, SHRUBS, SOD, ETC.

9. IRRIGATION HEADS FOR SOD SHALL PROVIDE HEAD TO HEAD COVERAGE.

10. MOUNT IRRIGATION CONTROLLER ON SIDE OF BUILDING.

SCALE: 1" = 20'

0 20' 40' 50'

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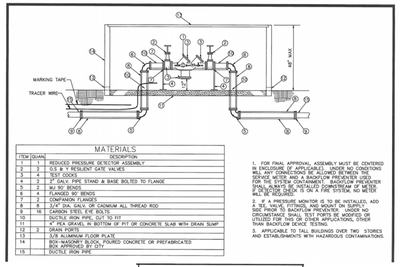
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SHOPPING CENTER DEVELOPMENT SITEWORK PLANS
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IRRIGATION PLAN

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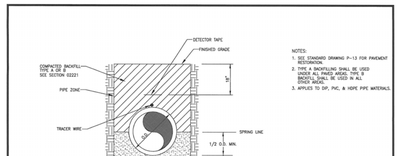
DRAWING NUMBER
C-9
9 OF 28 SHEETS



ITEM	QUAN.	DESCRIPTION
1	1	REDUCED PRESSURE DETECTOR ASSEMBLY
2	3	6.5 X 1 RESILIENT GATE VALVES
3	4	TEST COCKS
4	2	3" DIA.V. PIPE STAND & BASE BOLTED TO FLANGE
5	2	90 DEG BENDS
6	4	FLANGED 90 BENDS
7	2	COMPANION FLANGES
8	8	3/4" DIA. GALV. OR CADMIUM ALL THREAD ROD
9	16	HEX NUTS FOR ROD
10	1	DUCTILE IRON PIPE, CUT TO FIT
11	4	4" PEA GRAVEL IN BOTTOM OF PIT OR CONCRETE SLAB WITH DRAIN SUMP
12	2	DRAIN PORTS
13	1	1/8 ALUMINUM FLOOR PLATE
14	1	BOX-MASONRY BLOCK, POURED CONCRETE OR PREFABRICATED
15		DUCTILE IRON PIPE

1. FOR FINAL APPROVAL, ASSEMBLY MUST BE CENTERED IN ENCLOSURE OF APPLICABLE. UNDER NO CONDITIONS WILL ANY CONNECTIONS BE ALLOWED BETWEEN THE FDC "POSTS" OR A PARKED VEHICLE. WHERE USED FOR FIRE "SPRINKLER" PROTECTION, A FLOW METER SHALL ALWAYS BE INSTALLED DOWNSTREAM OF METER PITS. WHERE METER IS ON A FIRE SYSTEM, ALL BELL WILL BE REQUIRED.
2. IF A PRESSURE MONITOR IS TO BE INSTALLED, ADD A "BL" VALVE, FITTINGS, AND MOUNT ON SUPPLY SIDE OF DETECTOR ASSEMBLY. UNDER NO CIRCUMSTANCE SHALL TEST PORTS BE MODIFIED OR UTILIZED FOR ANY OTHER APPLICATIONS, OTHER THAN FOR WHICH THEY ARE.
3. APPLICABLE TO ALL BUILDINGS OVER TWO STORIES AND ESTABLISHMENTS WITH HAZARDOUS CONTAMINATIONS.

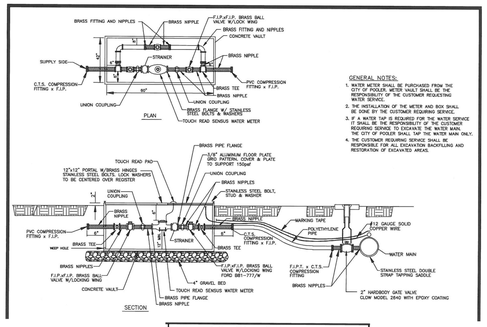
REDUCED PRESSURE DETECTOR ASSEMBLY FOR FIRE SYSTEM



NOTES:
1. SEE STANDARD DRAWING P-13 FOR PAVEMENT RESTORATION.
2. TYPE A BACKFILLING SHALL BE USED UNDER ALL PAVED AREAS. TYPE B BACKFILL SHALL BE USED IN ALL OTHER AREAS.
3. APPLIES TO DIP, PVC, & HDPE PIPE MATERIALS.

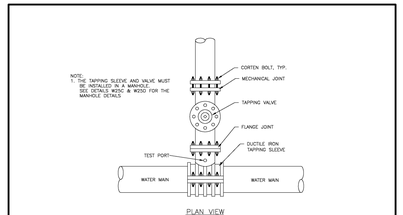
TYPICAL BEDDING FOR PIPE

PIPE BEDDING DETAIL

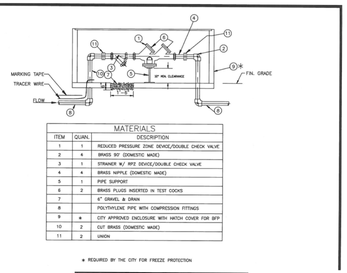


GENERAL NOTES:
1. WATER METER SHALL BE PURCHASED FROM THE CITY OF POOLER. METER VAULT SHALL BE THE RESPONSIBILITY OF THE CUSTOMER REQUESTING WATER SERVICE.
2. THE INSTALLATION OF THE METER AND BOX SHALL BE DONE BY THE CUSTOMER REQUIRING SERVICE.
3. IF A WATER TAP IS REQUIRED FOR THE WATER SERVICE IT SHALL BE THE RESPONSIBILITY OF THE CUSTOMER REQUESTING SERVICE TO EXCAVATE THE WATER MAIN. THE CITY OF POOLER WILL TAP THE WATER MAIN ONLY.
4. THE CUSTOMER REQUIRING SERVICE SHALL BE RESPONSIBLE FOR ALL EXCAVATION BACKFILLING AND RESTORATION OF EXCAVATED AREAS.

WATER METER INSTALLATION
2" SERVICE PIPE & 1-1/2" & 2" WATER METERS
DOMESTIC



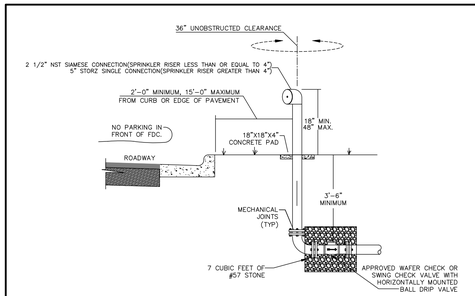
TAPPING SLEEVE DETAIL



ITEM	QUAN.	DESCRIPTION
1	1	REDUCED PRESSURE ZONE DEVICE/DOUBLE CHECK VALVE
2	4	BRASS 90° (DOMESTIC MADE)
3	1	STRAINER W/ PIPE DEVICE/DOUBLE CHECK VALVE
4	4	BRASS NIPPLE (DOMESTIC MADE)
5	1	PIPE SUPPORT
6	2	BRASS PLUGS INSERTED IN TEST COCKS
7		6" GRAVEL & DRAIN
8		POLYETHYLENE PIPE WITH COMPRESSION FITTINGS
9	*	CITY APPROVED ENCLOSURE WITH HATCH COVER FOR BFP
10	2	CUT BRASS (DOMESTIC MADE)
11	2	UNION

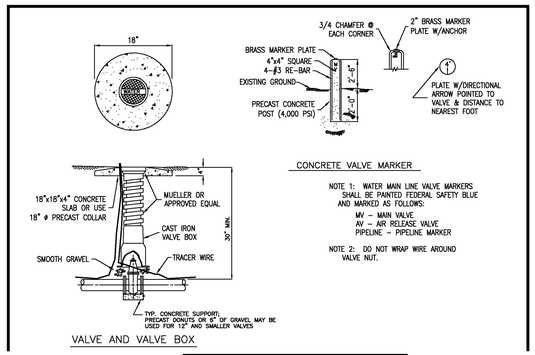
* REQUIRED BY THE CITY FOR FREEZE PROTECTION

BACKFLOW PREVENTER DETAIL
3/4", 1", 1-1/2", 2"



NOTES:
1. THERE SHALL BE NO SHUTOFF VALVE IN THE FIRE DEPT. CONNECTION PIPING (PER NFPA 13).
2. ALL ABOVE GROUND FITTINGS SHALL BE FLANGED.
3. ALL PIPING SHALL BE STEEL OR DUCTILE IRON.
4. SEE SITE PLANS FOR SIZES OF PIPES AND FITTINGS. SIAMESE CONNECTION TO BE IN ACCORDANCE WITH NFPA 13.
5. PROVIDE DRAINAGE AWAY FROM STRUCTURE.
6. KNOX LOCKING PLUG SHALL BE PROVIDED ON THE FDC INLET.
7. APPROVED WAFER CHECK OR SWING CHECK VALVE WITH HORIZONTAL MOUNTED BALL DRIP VALVE.
8. THE FDC SHALL BE CONNECTED TO THE PIPING SYSTEM LOCATED DOWNSTREAM OF THE POST INDICATOR VALVE.

FREE STANDING FIRE DEPARTMENT CONNECTION



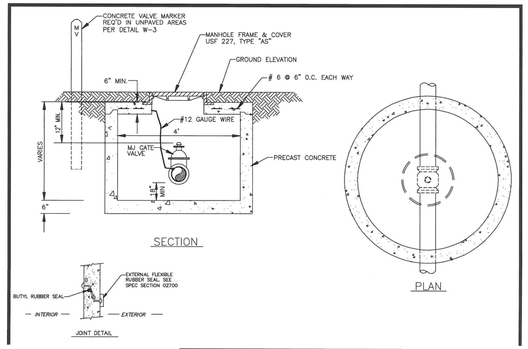
VALVE AND VALVE BOX

CONCRETE VALVE MARKER

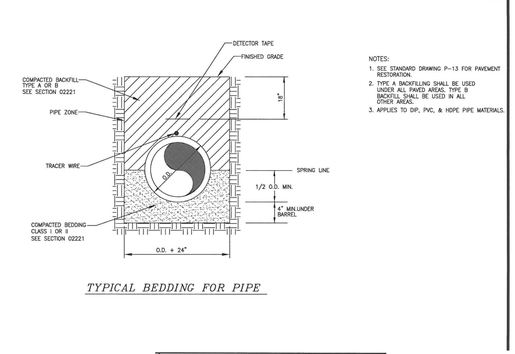
NOTE 1: WATER MAIN LINE VALVE MARKERS SHALL BE PAINTED FEDERAL SAFETY BLUE AND MARKED AS FOLLOWS:
MV – MAIN VALVE
AV – AIR RELEASE VALVE
PIPELINE – PIPELINE MARKER

NOTE 2: DO NOT WRAP WIRE AROUND VALVE NUT.

VALVE DETAIL



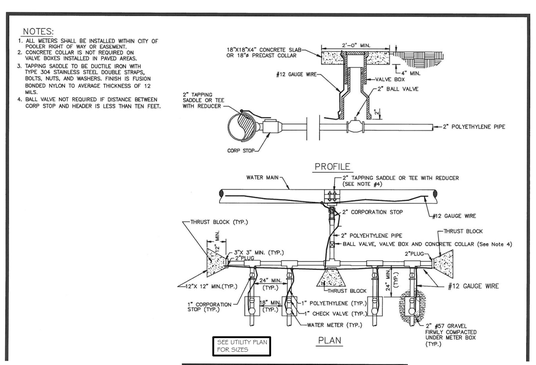
VALVE MANHOLE
FOR 4" TO 8" GATE VALVES



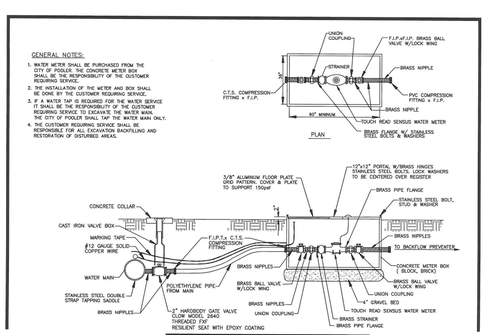
NOTES:
1. SEE STANDARD DRAWING P-13 FOR PAVEMENT RESTORATION.
2. TYPE A BACKFILLING SHALL BE USED UNDER ALL PAVED AREAS. TYPE B BACKFILL SHALL BE USED IN ALL OTHER AREAS.
3. APPLIES TO DIP, PVC, & HDPE PIPE MATERIALS.

TYPICAL BEDDING FOR PIPE

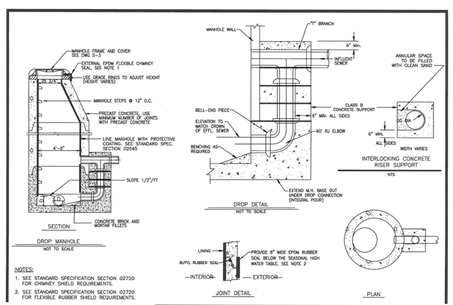
PIPE BEDDING DETAIL



MANIFOLD FOR MULTIPLE
3/4" OR 1" METER INSTALLATION



WATER METER INSTALLATION
2" SERVICE PIPE & 1-1/2" & 2" WATER METERS
IRRIGATION ONLY

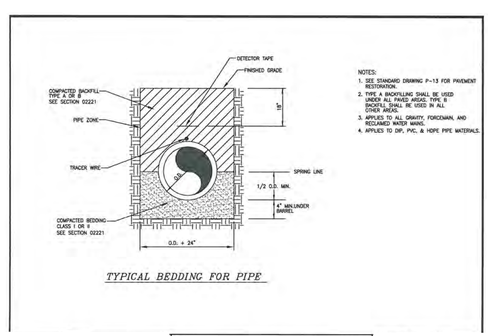


NOTES:
1. SEE STANDARD SPECIFICATION SECTION 02720 FOR CHIMNEY SHIELD REQUIREMENTS.
2. SEE STANDARD SPECIFICATION SECTION 02720 FOR FLEXIBLE RUBBER SHIELD REQUIREMENTS.

OUTSIDE DROP
INTO NEW MANHOLE

Tracer Wire Notes :

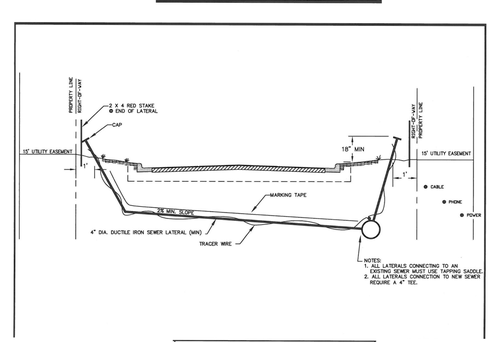
1. ALL WATER MAINS, WATER LATERALS AND FIRE HYDRANTS ARE TO HAVE A #12 GAUGE SOLID COPPER WIRE INSTALLED WITH EACH UTILITY. IT SHALL BE INSTALLED IN SUCH A MANNER THAT THE WIRES ARE CONNECTED TO EACH OTHER AND CAN BE CONTINUOUSLY TRACED. THE WATER DEPARTMENT SHALL CONDUCT A TRACING TEST TO ENSURE COMPLIANCE.



NOTES:
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2. TYPE A BACKFILLING SHALL BE USED UNDER ALL PAVED AREAS. TYPE B BACKFILL SHALL BE USED IN ALL OTHER AREAS.
3. APPLIES TO ALL GRAVITY, FORCEMAIN, AND RECLAIMED WATER MAINS.
4. APPLIES TO DIP, PVC, & HDPE PIPE MATERIALS.

TYPICAL BEDDING FOR PIPE

PIPE BEDDING DETAIL



NOTES:
1. ALL LATERALS CONNECTING TO AN EXISTING SEWER MUST USE TAPPING SADDLE.
2. ALL LATERALS CONNECTION TO NEW SEWER REQUIRE A "Y" TEE.

SEWER LATERAL DETAIL

Special Ordinance Note :

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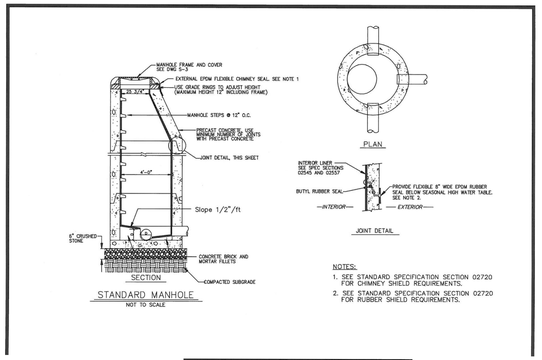
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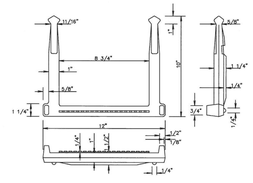
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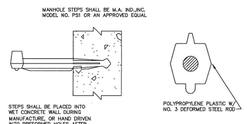
STANDARD MANHOLE
NOT TO SCALE

NOTES:
1. SEE STANDARD SPECIFICATION SECTION 02720 FOR CHIMNEY SHIELD REQUIREMENTS.
2. SEE STANDARD SPECIFICATION SECTION 02720 FOR RUBBER SHIELD REQUIREMENTS.

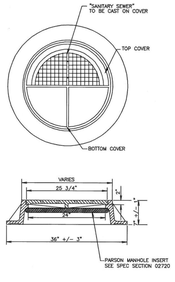
STANDARD MANHOLE



MANHOLE STEPS SHALL BE M.A. IND.,INC. MODEL NO. PS1 OR AN APPROVED EQUAL

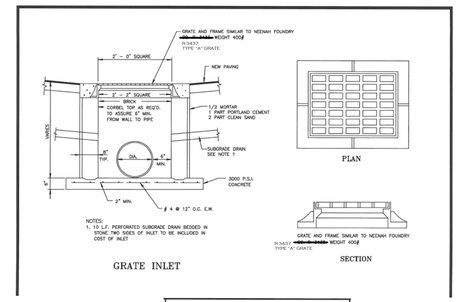


MANHOLE STEP DETAIL



NOTES:
1: CASTINGS SHALL BE OF UNIFORM QUALITY, FREE FROM BLOWHOLES, POROSITY, HARD SPOTS, SHRINKAGE, DISTORTION OR OTHER DEFECTS THEY SHALL BE SMOOTH AND WELL CLEANED BY SHOTBLASTING OR BY SOME OTHER APPROVED METHOD. CASTING SHALL NOT BE PAINTED.
2: MATERIALS USED IN THE MANUFACTURE OF CASTINGS SHOULD CONFORM TO AASHO M105/ASTM A48, CLASS 35B OF ASTM A48, CLASS 20, FOR GRAY IRON.
3: ALL CASTINGS SHALL BE MANUFACTURED TRUE TO PATTERN; COMPONENT PARTS SHALL FIT TOGETHER IN A SATISFACTORY MANNER. ROUND FRAMES AND COVERS SHALL BE OF NON-ROCKING DESIGN, OR SHALL HAVE MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING UNDER TRAFFIC. FRAME SHALL BE SUITABLE FOR CAST IRON OR STEEL RISER RING FOR UPWARD ADJUSTMENT OF COVER. CLEAR OPENING SHALL BE 24".
4: MANHOLE COVER SHALL BE 25-3/4" IN DIAMETER AND SHALL BE 2-INCHES THICK AT THE BEARING SURFACE.
5. CASTINGS SHALL BE PROVIDED WITH THE INSCRIPTION "SANITARY SEWER" CAST INTO THE COVER IN LETTERING AT LEAST 2-INCHES HIGH. MANUFACTURER'S NAME , IF IT APPEARS ON THE COVER, SHALL BE CONFINED TO THE PERIPHERY.
6. MANHOLE COVERS AND FRAMES SHALL BE USF 227, TYPE "AS" OR EQUAL.

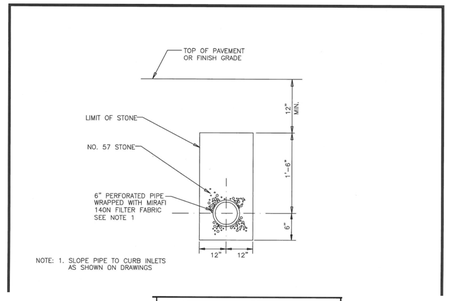
MANHOLE COVER & FRAME DETAIL



NOTES:
1. 10 L.F. PERFORATED SUBGRADE DRAIN BEDDED IN STONE TWO SIDES OF INLET TO BE INCLUDED IN COST OF INLET

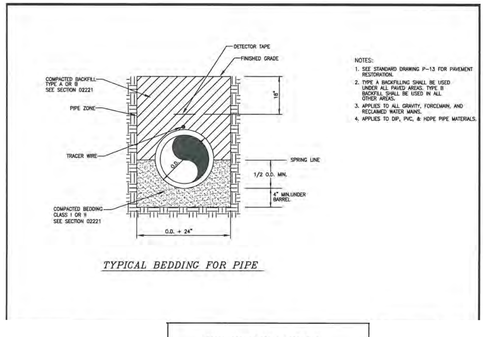
GRATE INLET

GRATE INLET W/ FRAME



NOTE: 1. SLOPE PIPE TO CURB INLETS AS SHOWN ON DRAWINGS

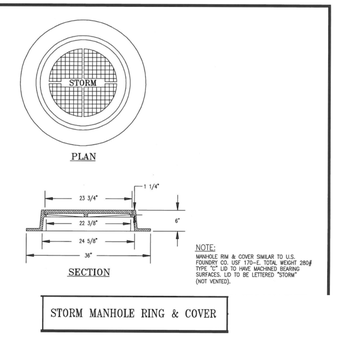
SUBGRADE DRAIN



NOTES:
1. SEE STANDARD DRAWING P-13 FOR PAVEMENT TRENCHING.
2. TYPE A BACKFILLING SHALL BE USED UNDER ALL PAVED AREAS. TYPE B BACKFILL SHALL BE USED IN ALL OTHER AREAS.
3. APPLIES TO ALL GRAVITY, FORCEMAIN, AND RECLAIMED WATER MAINS.
4. APPLIES TO DIP, PVC, & HDPE PIPE MATERIALS.

TYPICAL BEDDING FOR PIPE

PIPE BEDDING DETAIL



NOTE:
MANHOLE RIM & COVER SIMILAR TO U.S. FOUNDRY CO. USF 170-C TOTAL WEIGHT 280# TYPE "C" LID TO HAVE MACHINED BEARING SURFACES. LID TO BE LETTERED "STORM" (NOT VENTED).

STORM MANHOLE RING & COVER

SPECIAL ORDINANCE NOTE :

1. IN CASE OF CONFLICT BETWEEN THESE PLANS AND THE CITY OF POOLER'S ORDINANCES STANDARDS, SPECIFICATIONS OR DETAILS, THE CITY OF PORT WENTWORTH STANDARDS ARE TO TAKE PRECEDENCE.

REVISIONS

BOSWELL DESIGN SERVICES, INC.
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SAVANNAH, GEORGIA 31410
912 - 897 - 6932
LAHBOS@Bellsouth.net

DESIGNED: ---
DRAWN: MAB
CHECKED: ---
DATE: NOV. 26, 2024
JOB NO. ---
SCALE: as shown

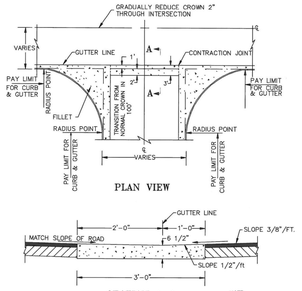
SHOPPING CENTER DEVELOPMENT SITEWORK PLANS
0 OLD RICHMOND ROAD
PORT WENTWORTH, GA 31407
FOR
NISHANT RANDERWALA
PORT WENTWORTH, GA

DETAILS

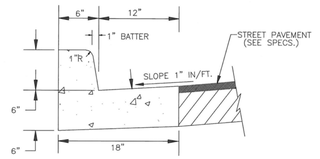
CONTACT A MINIMUM OF 72 HOURS PRIOR TO DIGGING
UTILITIES PROTECTION CENTER
1-800-282-7411

GEORGIA REGISTERED No. 28372 PROFESSIONAL 11-26-24 ENGINEER MARK A. BOSWELL

DRAWING NUMBER
C-11
11 OF 28 SHEETS

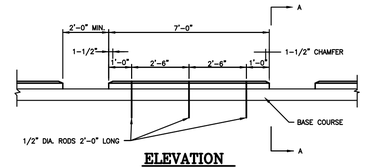


CONCRETE SWALE WITH FILLETS

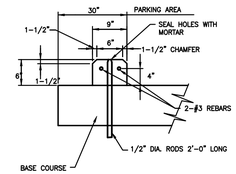


NORMAL GUTTER

18" CURB & GUTTER



ELEVATION

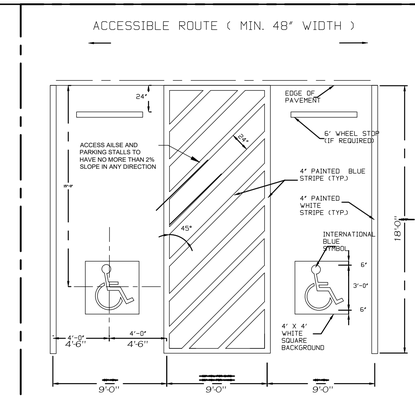


SECTION A-A

NOTE: ANCHOR RODS TO BE SLEEVED OR GREASED THRU CONCRETE CURBS TO PERMIT RELOCATION OF CURBS.

WHEEL STOP DETAIL

N.T.S.

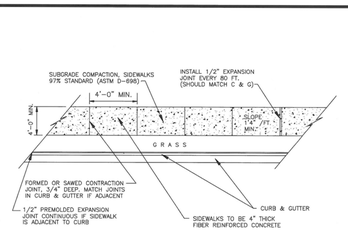


NOTE:

1. STRIPING AND CONSTRUCTION SHALL CONFORM TO ALL APPLICABLE FEDERAL, STATE AND CITY OF POOLER CODES AND SPECIFICATIONS.

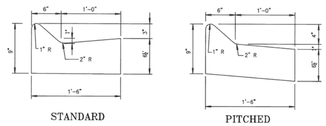
2. ALL PAVEMENT MARKINGS AND STRIPING IN THE RIGHT-OF-WAY SHALL BE THERMOPLASTIC.

ADA HANDICAP PARKING SPACE STRIPING DETAIL

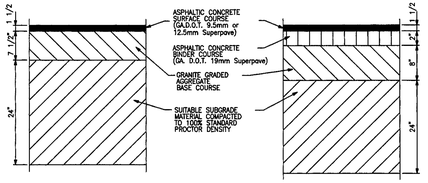


NOTE:
CONTRACTION JOINTS SPACING TO BE THE SAME AS WIDTH OF WALK.

SIDEWALK AND WALKWAY DETAILS

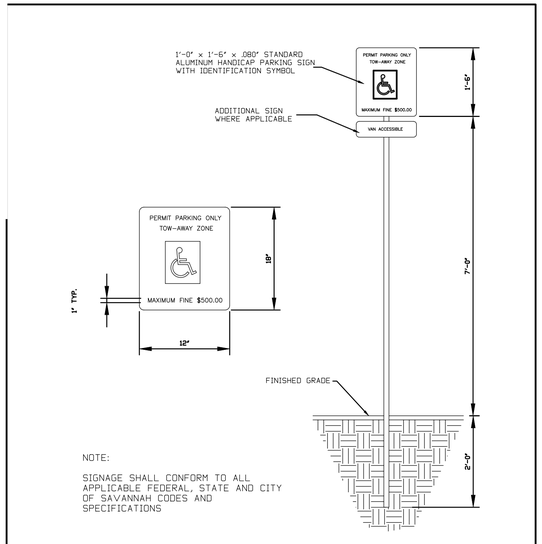


MOUNTABLE CONCRETE CURB & GUTTER



NOTES:
1. BITUMINOUS PRIME AND TACK COATS WILL BE APPLIED AS LISTED BELOW.
A. PRIME COAT SHALL BE APPLIED AT A RATE OF 0.25 GALLON PER SQUARE YARD TO THE SURFACE OF ALL GRANITE BASE COURSES.
B. TACK COAT SHALL BE APPLIED AT A RATE OF 0.10 GALLONS PER SQUARE YARD TO THE SURFACE OF THE BINDER COURSE BEFORE PLACEMENT OF SURFACE COURSE.
2. REFER TO PAVING PLAN FOR LOCATION OF STANDARD AND HEAVY DUTY PAVEMENTS.

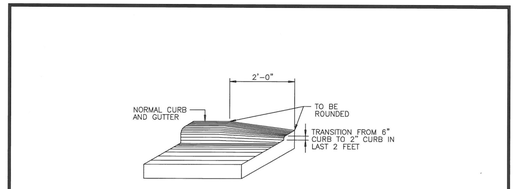
PRIVATE PROPERTY PAVEMENT SECTIONS



NOTE:

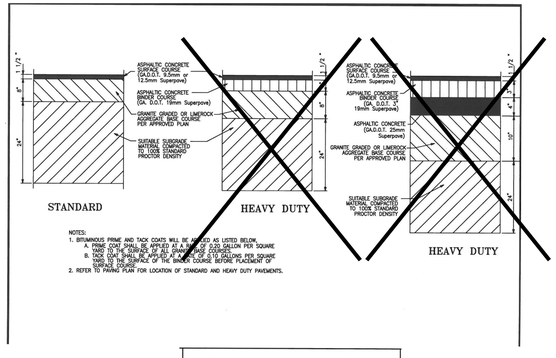
SIGNAGE SHALL CONFORM TO ALL APPLICABLE FEDERAL, STATE AND CITY OF SAVANNAH CODES AND SPECIFICATIONS

HANDICAP PARKING SIGN DETAIL



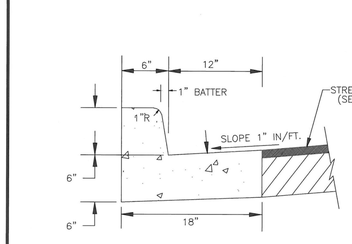
NOTE: THIS OCCURS AT END OF CURB AND GUTTER WHERE CALLED FOR ON PLANS

FEATHERING OF CONCRETE CURB & GUTTER



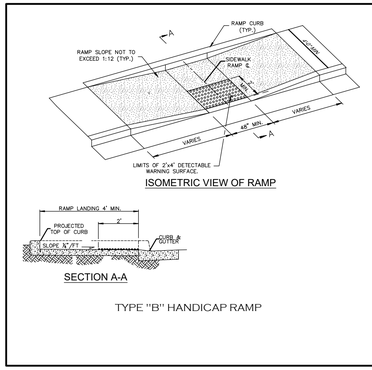
NOTES:
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TYPICAL PAVEMENT SECTIONS

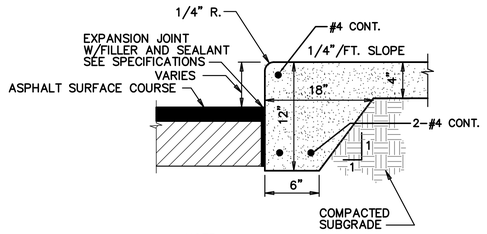


NORMAL GUTTER

18" CURB & GUTTER



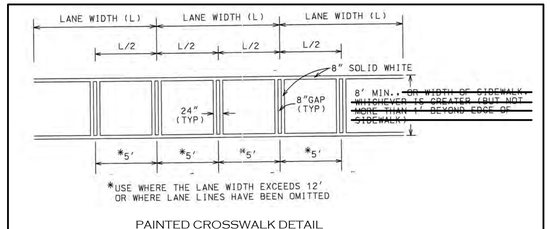
TYPE "B" HANDICAP RAMP



NOTE:
DOES NOT APPLY TO HANDICAP PARKING SPACES AND RAMPS – SEE PGD SHEET FOR GRADES

MONOLITHIC SIDEWALK

NOT TO SCALE



*USE WHERE THE LANE WIDTH EXCEEDS 12' OR WHERE LANE LINES HAVE BEEN OMITTED

PAINTED CROSSWALK DETAIL

SPECIAL ORDINANCE NOTE :

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REVISIONS

BOSWELL DESIGN SERVICES, INC.
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LAHBOS@Bellsouth.net

DESIGNED: ---
DRAWN: MAB
CHECKED: ---
DATE: NOV. 26, 2024
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SCALE: as shown

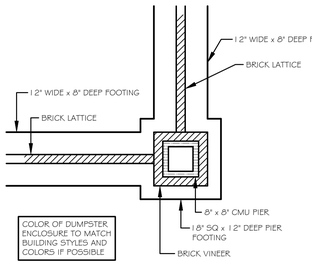
SHOPPING CENTER DEVELOPMENT SITEWORK PLANS
0 OLD RICHMOND ROAD
PORT WENTWORTH, GA 31407
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DETAILS

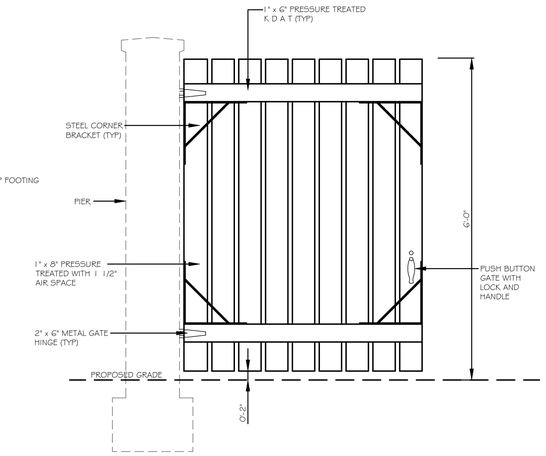
CONTACT A MINIMUM OF 72 HOURS PRIOR TO DIGGING
UTILITIES PROTECTION CENTER
1-800-282-7411

GEORGIA REGISTERED
No. 28372
PROFESSIONAL
11-26-24
ENGINEER
MARK A. BOSWELL

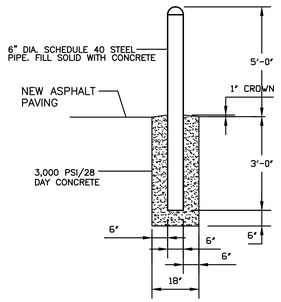
DRAWING NUMBER
C-12
12 OF 28 SHEETS



DUMPSTER FENCE PLAN VIEW
3/4" = 1'-0"

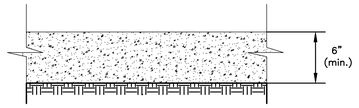


DUMPSTER FENCE GATE DETAIL
3/4" = 1'-0"



NOTE: PAINT FINISH COAT: 2 COATS T Thermec– GLOSS OR 2 COATS V 34 SERIES OR 2 COATS C–5550–5552 EPOXIDE – TOTAL DRY FILM THICKNESS 3.0 TO 5.0 MILS. PRIME COAT AS PER PAINT MANUFACTURER'S INSTRUCTIONS. COLOR TO BE YELLOW OR AS DIRECTED BY THE ENGINEER.

BOLLARD DETAIL
NOT TO SCALE

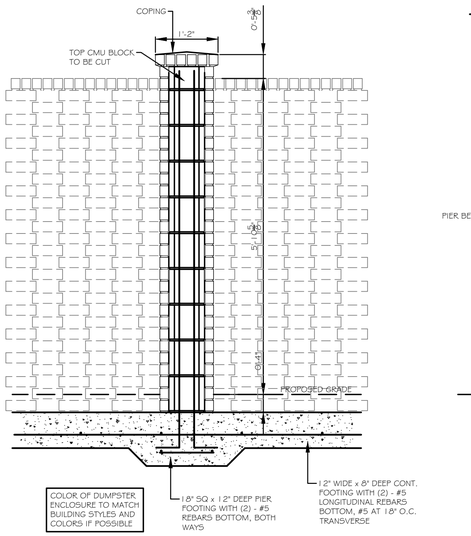


APPROACH NOTES :

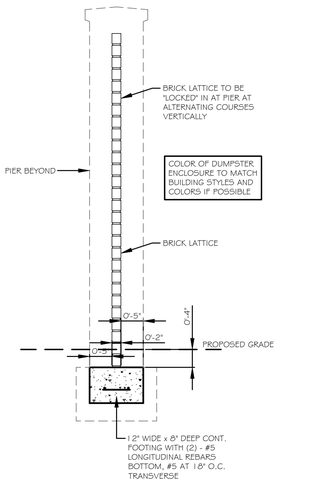
1. DRIVEWAY SUBGRADE SHALL BE COMPACTED TO 100% AS PER SECTION 02200, PART 3.01 B.

2. MINIMUM COMPRESSIVE STRENGTH SHALL BE 5,000 psi AS PER SECTION 03300, PART 3.2 IN CITY OF SAVANNAH R.O.W. AND ELSEWHERE.

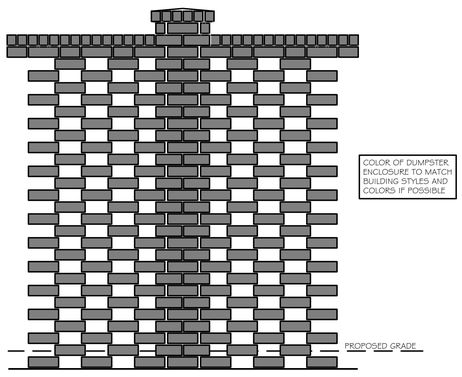
DUMPSTER PAD AND APPROACH PAD DETAIL



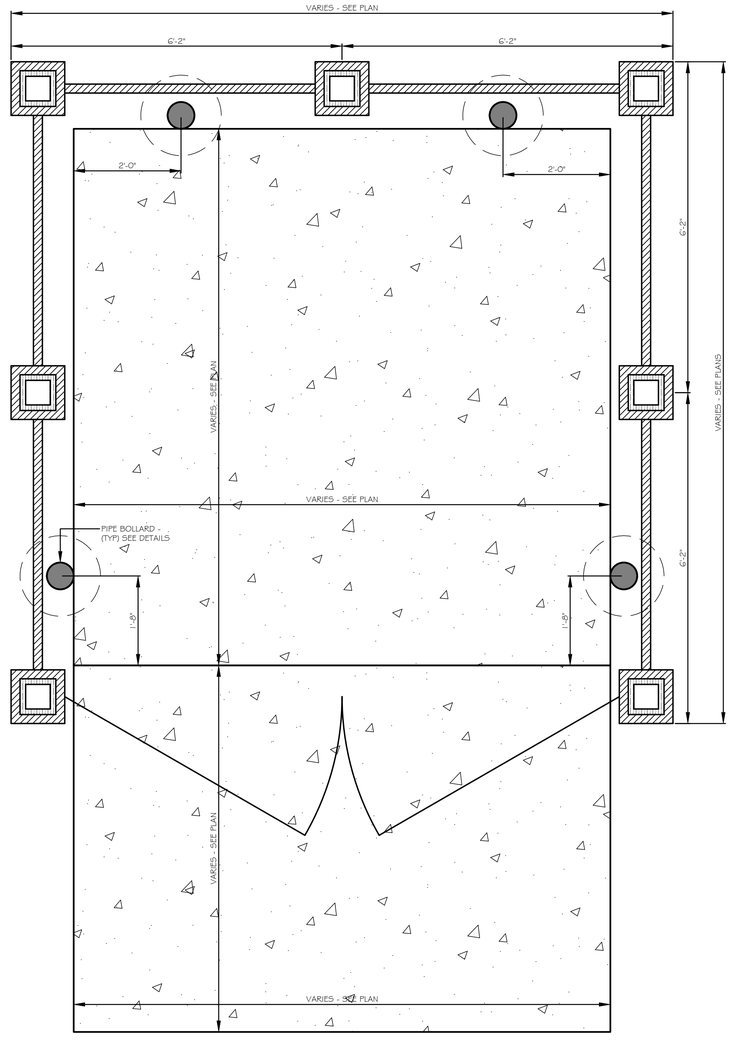
DUMPSTER FENCE PIER SECTION
3/4" = 1'-0"



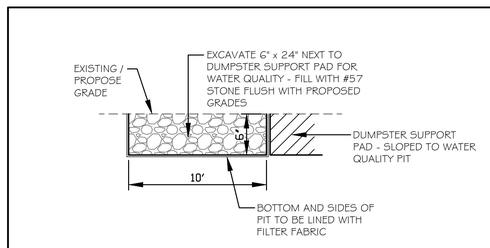
DUMPSTER FENCE LATTICE SECTION
3/4" = 1'-0"



DUMPSTER FENCE ELEVATION
3/4" = 1'-0"



DUMPSTER AREA PLAN
3/4" = 1'-0"



DUMPSTER PAD WATER QUALITY PIT DETAIL
NOT TO SCALE

SPECIAL ORDINANCE NOTE :

1. IN CASE OF CONFLICT BETWEEN THESE PLANS AND THE CITY OF POOLERS ORDINANCES STANDARDS, SPECIFICATIONS OR DETAILS, THE CITY OF POOLER, STANDARDS ARE TO TAKE PRECEDENCE.

SPECIAL CONSTRUCTION NOTE:

IF THE CONTRACTOR KNOWS OR CAN REASONABLY BE EXPECTED TO HAVE KNOWN OF AN ERROR, DISCREPANCY OR CONFLICT IN THE PLANS, SPECIFICATIONS OR CONSTRUCTION STAKING AND FAILS TO REPORT THE PROBLEM PRIOR TO CONSTRUCTION, HE SHALL NOT BE ENTITLED TO COMPENSATION FOR ANY WORK OR EXPENSE INCURRED BY HIM FOR WORK REQUIRED TO BE RE-CONSTRUCTED BECAUSE OF SAID ERROR, DISCREPANCY OR CONFLICT.

REVISIONS

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SAVANNAH, GEORGIA 31410
912 - 897 - 6932
LAHBOS@Bellsouth.net

DESIGNED	DRAWN	CHECKED
---	MAB	---

DATE : NOV. 26, 2024
JOB NO. ---
SCALE: as shown

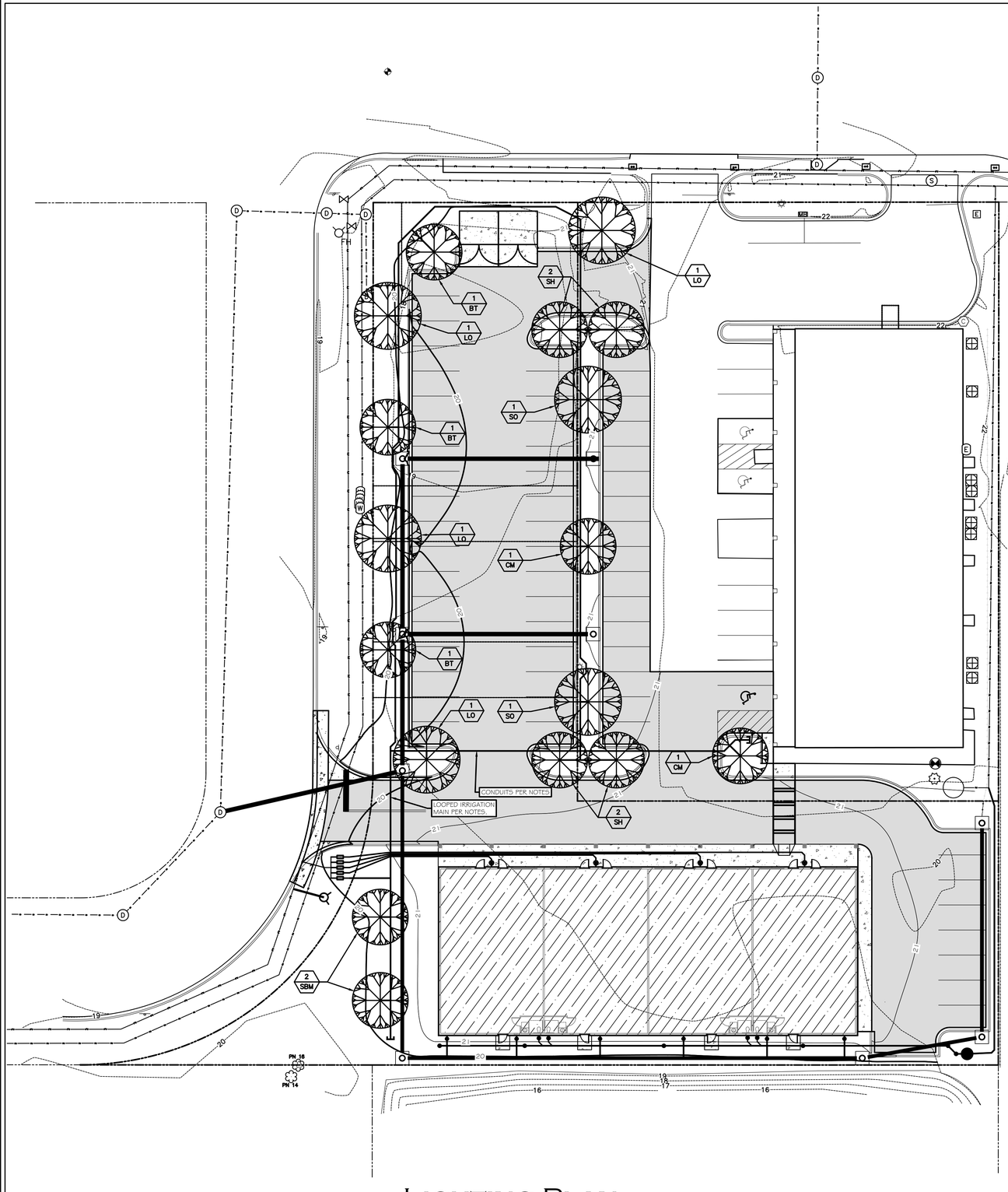
SHOPPING CENTER DEVELOPMENT SITEWORK PLANS
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PORT WENTWORTH, GA 31407
FOR
NISHANT RANDERWALA
PORT WENTWORTH, GA

DETAILS

CONTACT A MINIMUM OF 72 HOURS PRIOR TO DIGGING
UTILITIES PROTECTION CENTER
1-800-282-7411

GEORGIA REGISTERED No. 28372 PROFESSIONAL ENGINEER
Mark Boswell
11-26-24
MARK A. BOSWELL

DRAWING NUMBER
C-13
13 OF 28 SHEETS



Lighting Plan

Mounting Height Notes :

1. ~~MOUNTING HEIGHT FOR LAYDOWN YARD AREA LIGHTS ARE TO BE 30' MAX.~~
2. MOUNTING HEIGHT FOR BUILDING MOUNTED WALL PACKS ARE TO BE 15' MAX.

Site Lighting Ordinance Notes :

1. ALL SITE LIGHTING SHALL MEET IESNA (ILLUMINATING ENGINEERING SOCIETY OF NORTH AMERICA STANDARDS.
2. MAXIMUM LIGHT LEVELS PERMITTED AT PROPERTY INE SHALL BE AS FOLLOWS :
   - A. 0.5 FC AT ANY PROPERTY LINE ADJACENT TO A CONSERVATION OR RESIDENTIAL ZONING DISTRICT OR A CONFORMING RESIDENTIAL USE
   - B. 1.0 FC AT ANY PROPERTY LINE ABUTTING ANY MIXED-USE OR NON-RESIDENTIAL ZONING DISTRICT
   - C. 3.0 FC AT ANY PROPERTY LINE ALONG ANY STREET RIGHTS OF WAY

4 WALL PACKS MOUNTED ON BUILDING EXTERIOR



FINAL LIGHTING PLAN IS TO BE COORDINATED, DESIGNED AND APPROVED BY GEORGIA POWER

Special Ordinance Note :

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Site Lighting Notes :

1. PARKING AND SITE LIGHTING IS TO BE INSTALLED UTILIZING CUT OFF FIXTURES SO AS TO NOT CAUSE NEW LIGHT TO "SPILL OVER" ONTO ADJACENT PROPERTIES.
2. FINAL LIGHTING PLAN IS TO BE COORDINATED, AND SUPPLIED BY THE OWNER.
3. FINAL LIGHTING IS TO BE APPROVED BY THE CITY OF POOLER.

SCALE: 1" = 20'
0 20' 40' 50'

BOSWELL DESIGN SERVICES, INC.
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REVISIONS

DESIGNED ---
DRAWN MAB
CHECKED ---
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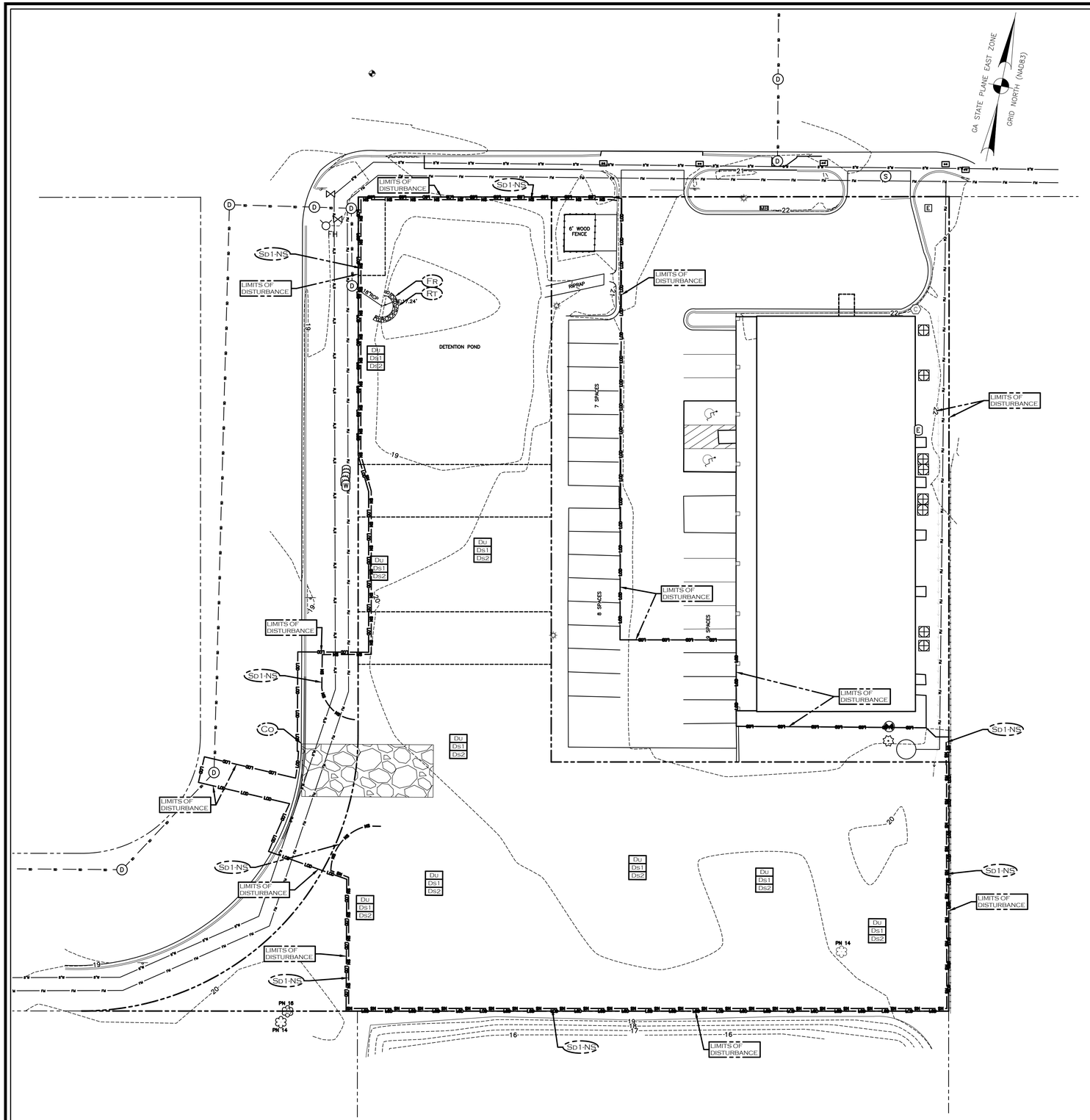
Shopping Center Development Sitework Plans
0 Old Richmond Road
Port Wentworth, GA 31407
for
Nishant Randerwala
Port Wentworth, GA

Lighting Plan and Details

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GEORGIA REGISTERED No. 28372 PROFESSIONAL ENGINEER MARK A. BUSWELL 11-26-24

Drawing Number
C-14
14 of 28 sheets

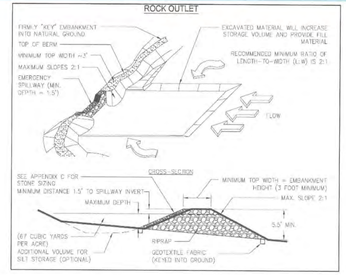


SOIL EROSION AND SEDIMENT CONTROL PLAN - PHASE I

1" = 20'

Sd4-C Detail

Sd4



Sd4-C Detail

Sd4

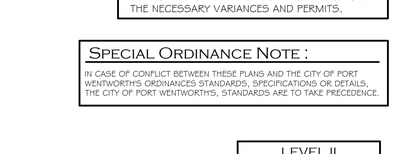


Figure 6-30.3

STREAM BUFFER ENCROACHMENT NOTES :

1. NEW STRUCTURES ON THIS PROJECT DO NOT ENCROACH IN THE 25 OR 50 FOOT STREAM BUFFER.

2. NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 OR 50 FOOT UNDISTURBED STREAM BUFFERS AS MEASURED FROM THE POINT OF WRESTED VEGETATION OR WITHIN 25 FEET OF THE COASTAL MARSHLAND BUFFER AS MEASURED FROM THE JURISDICTIONAL DETERMINATION LINE WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS.

SPECIAL ORDINANCE NOTE :

IN CASE OF CONFLICT BETWEEN THESE PLANS AND THE CITY OF PORT WENTWORTH'S ORDINANCES STANDARDS, SPECIFICATIONS OR DETAILS, THE CITY OF PORT WENTWORTH'S, STANDARDS ARE TO TAKE PRECEDENCE.

SPECIAL CONSTRUCTION NOTE:

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LEVEL II CERTIFICATION NO. 2104 ISSUED 11-5-05 EXPIRES 11-15-26

SCALE: 1" = 20'

0 20' 40' 50'

REVISIONS

BOSWELL DESIGN SERVICES, INC.
OFFICE: 4700 EAST HIGHWAY 80
Unit K, Suite 1
MAILING: 103 NASSAU DRIVE
SAVANNAH, GEORGIA 31410
912 - 897 - 6932
LAHBOS@Bellsouth.net

DESIGNED: ---
DRAWN: MAB
CHECKED: ---
DATE: NOV. 26, 2024
JOB NO. ---
SCALE: as shown

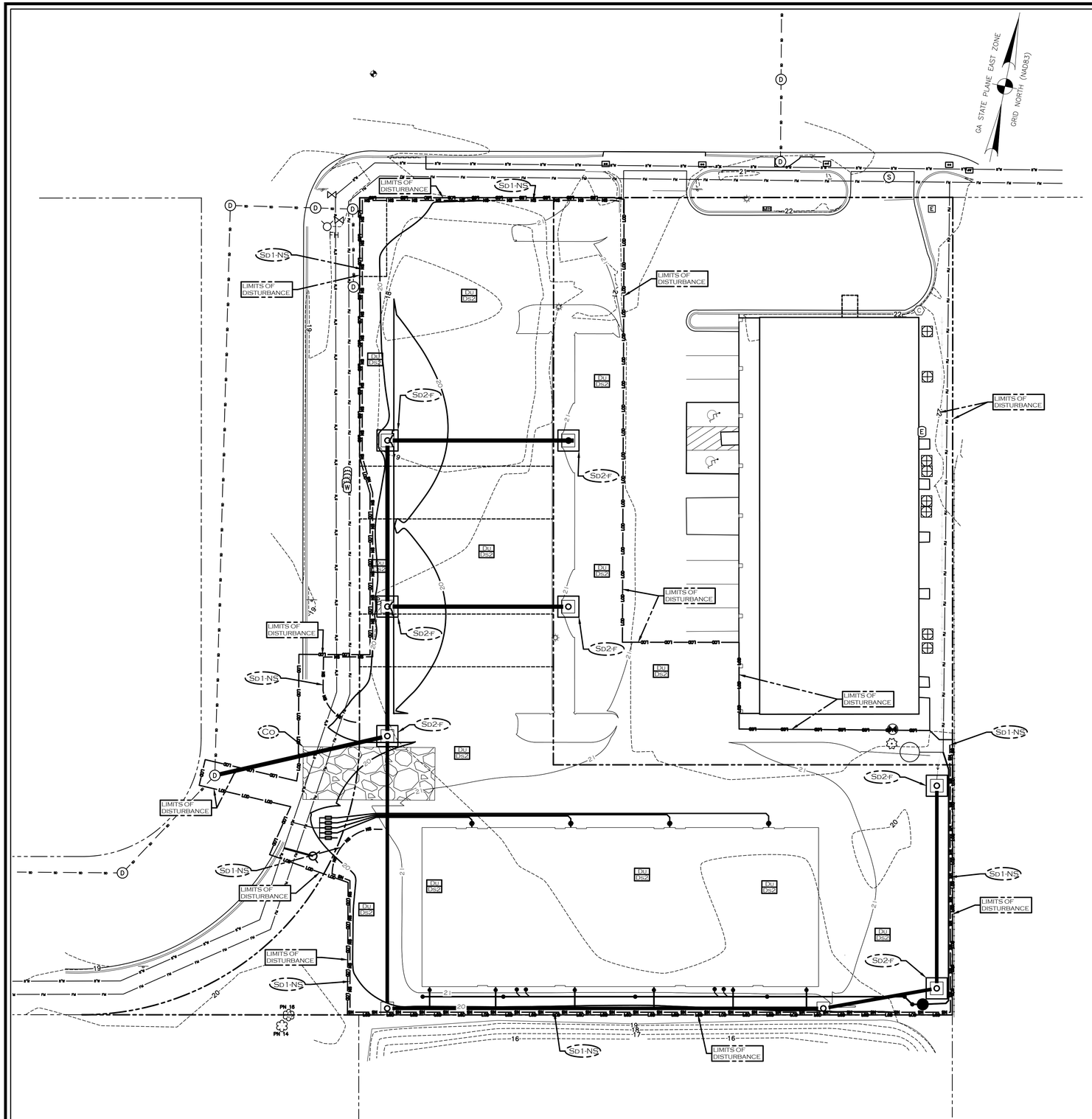
SHOPPING CENTER DEVELOPMENT SITEWORK PLANS
0 OLD RICHMOND ROAD
PORT WENTWORTH, GA 31407
FOR
NISHANT RANDERWALA
PORT WENTWORTH, GA

SOIL EROSION AND SEDIMENT CONTROL PLAN - PHASE I

CONTACT A MINIMUM OF 72 HOURS PRIOR TO DIGGING
UTILITIES PROTECTION CENTER
1-800-282-7411

GEORGIA REGISTERED No. 28372 PROFESSIONAL 11-26-24 ENGINEER MARK A. BUSWELL

DRAWING NUMBER
C-15
15 OF 28 SHEETS



SOIL EROSION AND SEDIMENT CONTROL PLAN - PHASE II

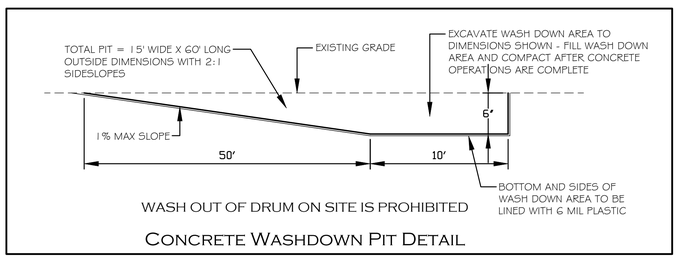
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WASH OUT OF DRUM ON SITE IS PROHIBITED

CONCRETE WASHDOWN PIT DETAIL

SPECIAL CONSTRUCTION NOTE:

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LEVEL II CERTIFICATION NO. 2104 ISSUED 11-5-05 EXPIRES 11-15-26

SCALE: 1" = 20'

0 20' 40' 50'

REVISIONS

BOSWELL DESIGN SERVICES, INC.
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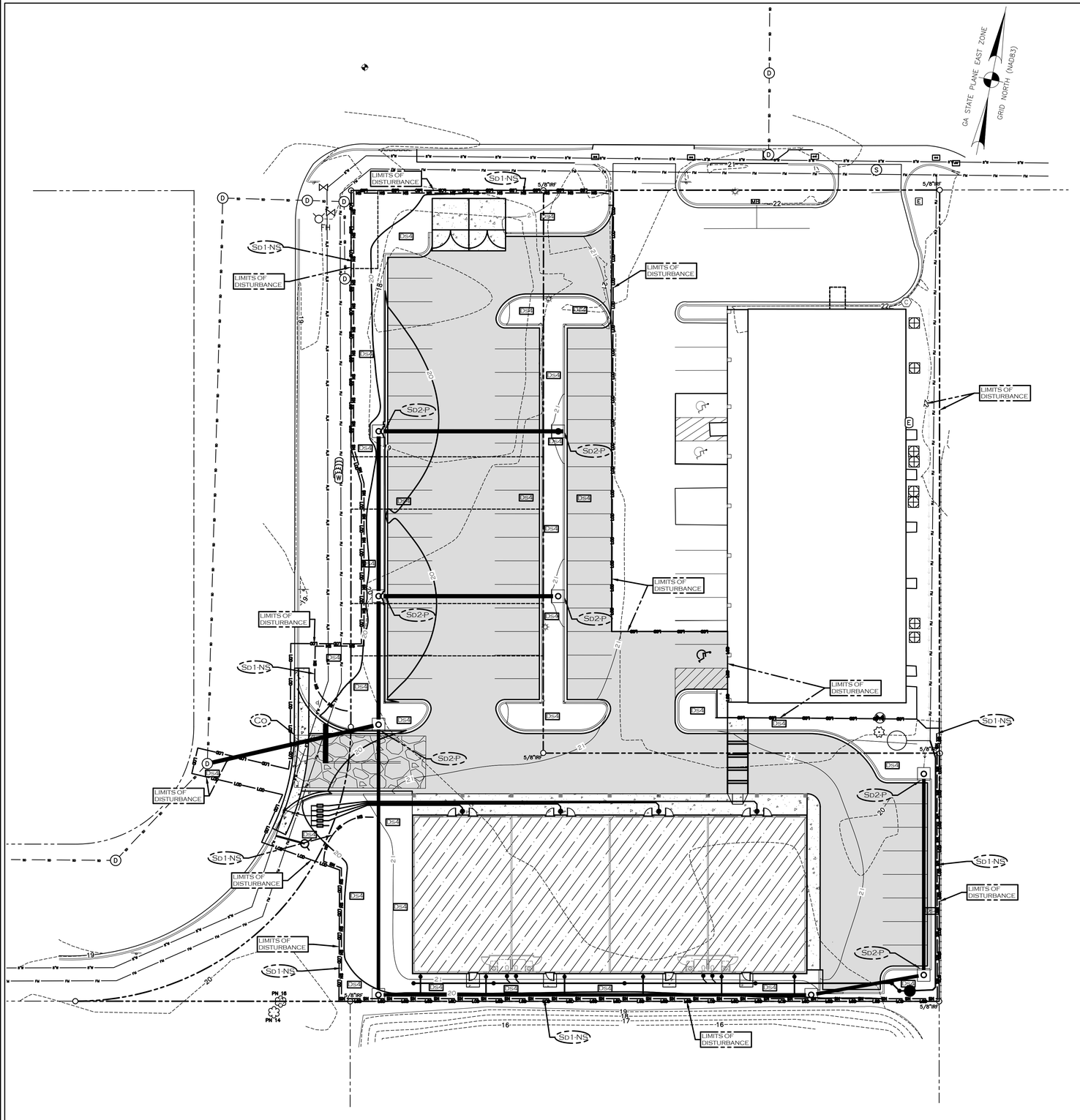
SHOPPING CENTER DEVELOPMENT SITEWORK PLANS
0 OLD RICHMOND ROAD
PORT WENTWORTH, GA 31407
FOR
NISHANT RANDERWALA
PORT WENTWORTH, GA

SOIL EROSION AND SEDIMENT CONTROL PLAN - PHASE II

CONTACT A MINIMUM OF 72 HOURS PRIOR TO DIGGING
GEORGIA 811 UTILITIES PROTECTION CENTER
UTILITIES PROTECTION CENTER 1-800-282-7411

GEORGIA REGISTERED No. 28372 PROFESSIONAL ENGINEER MARK A. BOSWELL
11-26-24

DRAWING NUMBER
C-16
16 OF 28 SHEETS



SOIL EROSION AND SEDIMENT CONTROL PLAN - PHASE III

1" = 20'

STREAM BUFFER ENCROACHMENT NOTES :

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LEVEL II CERTIFICATION NO. 2104 ISSUED 11-5-05 EXPIRES 11-15-26

SCALE: 1" = 20'

0 20' 40' 50'

REVISIONS

BOSWELL DESIGN SERVICES, INC.
OFFICE : 4700 EAST HIGHWAY 80
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MAILING : 103 NASSAU DRIVE
SAVANNAH, GEORGIA 31410
912 - 897 - 6932
LAHBOS@Bellsouth.net

DESIGNED ---
DRAWN MAB
CHECKED ---
DATE : NOV. 26, 2024
JOB NO. ---
SCALE: as shown

SHOPPING CENTER DEVELOPMENT SITEWORK PLANS
0 OLD RICHMOND ROAD
PORT WENTWORTH, GA 31407
FOR
NISHANT RANDERWALA
PORT WENTWORTH, GA

SOIL EROSION AND SEDIMENT CONTROL PLAN - PHASE III

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1-800-282-7411

GEORGIA REGISTERED No. 28372 PROFESSIONAL 11-26-24 ENGINEER MARK A. BOSWELL

DRAWING NUMBER
C-17
17 OF 28 SHEETS

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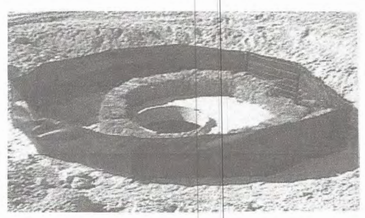
LEVEL II
CERTIFICATION
NO. 2104
ISSUED 11-5-05
EXPIRES 11-15-26

Sd2

INLET SEDIMENT TRAP

DEFINITION

A temporary sediment barrier placed around a storm drain drop inlet.



PURPOSE

Prevent sediment from entering storm drainage systems.

INSTALLATION

- Install according to approved plan, if shown.
- Do not install where vehicular traffic will be affected.
- Install at or around all storm drain drop inlets that receive runoff from disturbed areas.
- Construct on natural ground surface, excavated surface, or on machine compacted fill.

Excavated Sediment Traps

- Minimum of 1.5 feet of sediment storage in excavated sediment traps.
- Must be self-draining unless otherwise protected.

Sd2

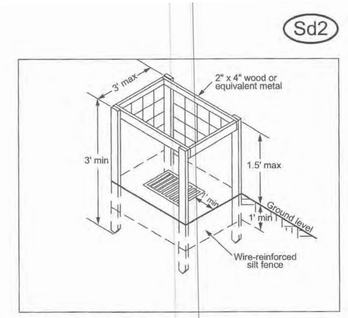
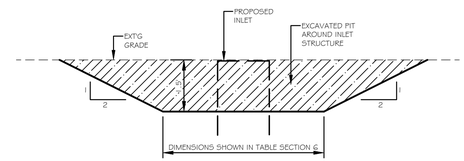


Figure 1. Fabric and supporting Frame for Inlet Protection (Sd2-F)



Sd2-F EXCAVATED SEDIMENT TRAP DETAIL
NOT TO SCALE

SPECIAL ORDINANCE NOTE :

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SAVANNAH, GEORGIA 31410
912 - 897 - 6932
LAHBOS@Bellsouth.net

DESIGNED ---
DRAWN MAB
CHECKED ---
DATE : NOV. 26, 2024
JOB NO. ---
SCALE: as shown

SHOPPING CENTER DEVELOPMENT SITEWORK PLANS
0 OLD RICHMOND ROAD
PORT WENTWORTH, GA 31407
FOR
NISHANT RANDERWALA
PORT WENTWORTH, GA

EXCAVATED INLET SEDIMENT TRAP DETAILS

CONTACT A MINIMUM OF 72 HOURS PRIOR TO DIGGING
UTILITIES PROTECTION CENTER
1-800-282-7411

GEORGIA REGISTERED No. 28372 PROFESSIONAL ENGINEER
Mark Boswell
11-26-24
MARK A. BOSWELL

DRAWING NUMBER
C-18
18 OF 28 SHEETS

SOIL EROSION & SEDIMENTATION CONTROL NOTES

1. NARRATIVE: THE EXISTING SITE IS PARTIALLY DEVELOPED AND THE GROUND IS GENERALLY FLAT WITH SLOPES BETWEEN 0 AND FOUR PERCENT WITH FEW TREES. THE PROPOSED DEVELOPMENT WILL BE ONE NEW RETAIL BUILDING WITH JOINT PARKING AND WILL HAVE PAVING, GRADING, DRAINAGE AND UTILITIES. DETENTION WILL BE ACHIEVED BY UTILIZING THE EXISTING PARK POND. THE TOTAL SITE IS APPROXIMATELY 1.65 ACRES WITH THE DISTURBED AREA BEING APPROXIMATELY 0.97 ACRES.

2. DEVELOPER / OWNER : NISHANT RANDERWALA
112 RIVERSIDE BLVD.
PORT WENTWORTH, GA. 31407

PRIMARY PERMITTEE EMAIL : NMRA1234@GMAIL.COM

3. 24 HOUR CONTACT : NISHANT RANDERWALA
912-544-0217

4. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IN CONFORMANCE WITH THE CURRENT STATE SOIL AND WATER CONSERVATION COMMITTEE OF GEORGIA "MANUAL FOR EROSION CONTROL IN GEORGIA.

5. PRIOR TO ANY OTHER CONSTRUCTION, STABILIZED CONSTRUCTION EXITS SHALL BE CONSTRUCTED AT EACH POINT OF ENTRY TO OR EXIT FROM THE SITE. ALL ENTRANCES TO THE SITE WHICH ARE NOT PROTECTED SHALL BE BARRICADED.

6. IMMEDIATELY AFTER THE ESTABLISHMENT OF CONSTRUCTION EXITS, ALL PERIMETER EROSION CONTROL DEVICES AND STORM WATER MANAGEMENT DEVICES SHALL BE INSTALLED PRIOR TO ANY OTHER CONSTRUCTION.

7. ADDITIONAL EROSION CONTROL DEVICES SHALL BE INSTALLED IMMEDIATELY AFTER GROUND DISTURBANCE OCCURS. THE LOCATION OF SOME OF THE EROSION CONTROL DEVICES MAY HAVE TO BE ALTERED FROM THAT SHOWN ON THE PLANS IF DRAINAGE PATTERNS DURING CONSTRUCTION ARE DIFFERENT FROM THE FINAL PROPOSED DRAINAGE PATTERNS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ACCOMPLISH EROSION CONTROL FOR ALL DRAINAGE PATTERNS CREATED AT VARIOUS STAGES DURING ANY PHASE OF CONSTRUCTION. ANY DIFFICULTY IN CONTROLLING EROSION DURING ANY PHASE OF CONSTRUCTION SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY !

8. THE LOCATIONS OF EROSION CONTROL DEVICES SHALL BE ADJUSTED AS CONSTRUCTION PROGRESSES IN ORDER TO MAINTAIN A FUNCTIONING EROSION CONTROL SYSTEM.

9. THE FAILURE OF ANY EROSION CONTROL DEVICE TO FUNCTION AS INTENDED, FOR ANY REASON, SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY !

10. EROSION CONTROL DEVICES SHALL BE INSPECTED AFTER EACH RAINFALL EVENT AND AT LEAST DAILY DURING PROLONGED PERIODS OF CONTINUOUS RAINFALLS.

11. EROSION CONTROL DEVICES SHALL BE CLEANED WHEN THEY BECOME HALF FILLED WITH SEDIMENT.

12. EROSION CONTROL DEVICES SHALL BE REPAIRED AS NECESSARY TO MAINTAIN A FUNCTIONING EROSION CONTROL SYSTEM.

13. EROSION CONTROL DEVICES SHALL BE MAINTAINED UNTIL PERMANENT COVER IS ESTABLISHED AND THEN REMOVED SO THAT DRAINAGE FROM THE SITE IS NOT IMPAIRED.

14. STORM WATER DETENTION DEVICES SHALL BE CLEANED AS SPECIFIED ABOVE AND AFTER PERMANENT GROUND COVER HAS BEEN ESTABLISHED.

15. ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH TEMPORARY SEEDING.

16. ANY DISTURBED AREAS WITH SLOPES 2:1 OR FLATTER WHICH ARE NOT STABILIZED BY ANY OTHER MEASURES SHALL BE SEEDED AS SPECIFIED IN "PERMANENT SEEDING".

17. VEGETATIVE METHODS:
A VEGETATIVE COVER SHALL BE ESTABLISHED AND MAINTAINED OVER ALL FINAL GRADING AND OTHER DISTURBED AREAS OF THE SITE. SEE COASTAL PLAIN VEGETATIVE COVERS FOR AN OUTLINE OF THE ESTABLISHMENT OF VEGETATIVE COVERS.

WEEKLY INSPECTION OF THE GRASS COVER SHALL BE PERFORMED TO IDENTIFY AREAS REQUIRING RE-ESTABLISHMENT OF GRASS.

LIME RATE: 1 TO 2 TONS PER ACRE
FERTILIZER: 1500 POUNDS OF 6-12-12 PER ACRE

18. MULCH:
MULCH SHALL BE UNCHOPPED, UNROTTED, SMALL GRAIN DRY STRAW APPLIED AT A RATE OF 2 TONS PER ACRE. MULCH MATERIAL SHALL BE RELATIVELY FREE FROM ALL KINDS OF WEEDS AND SHALL BE FREE OF PROHIBITED NOXIOUS WEEDS WHICH ARE AS FOLLOWS : CANADA THISTLE, JOHNSONGRASS AND QUACKGRASS. SPREAD MULCH MECHANICALLY OR UNIFORMLY BY HAND. MULCH ANCHORING SHALL BE ACCOMPLISHED IMMEDPLACEMENTPIATELY AFTER MULCH PLACEMENT TO MINIMIZE LOSS BY WIND OR WATER. THIS MAY BE DONE BY PEG AND TWINE METHOD, MULCH ANCHORING TOOL, NETTING OR LIQUID MULCH BINDERS.

19. SOIL TYPE: THE SOILS IN THIS AREA HAVE BEEN CLASSIFIED BY THE SOIL CONSERVATION SERVICE AS : Pn (Pooler Fine Sandy Loam).

20. THIS DEVELOPMENT IS WITHIN MINIMAL ZONING AREA "X" ACCORDING TO F.I.R.M. COMMUNITY PANEL NUMBER 13051C0030G, MAP REVISED 8-16-18.

21. THIS SITE IS IN FLOOD ZONE "X" AND IS NOT LOCATED WITHIN THE 100 YEAR FLOOD ZONE.

SPECIAL NOTES:

1. THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTEDED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO OR CONCURRENT WITH LAND DISTURBING ACTIVITIES.

2. THE INSTALLATION OF EROSION CONTROL MEASURES AND PRACTICES SHALL BE INSTALLED PRIOR TO OR CONCURRENT WITH LAND DISTURBING ACTIVITIES.

3. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.

4. CITY OF POOLER PERSONNEL SHALL HAVE THE RIGHT TO INSPECT STORMWATER FACILITIES AT ALL TIMES.

5. STATE WATERS DO NOT EXIST ON THIS PROPERTY.

6. FRESH WATER WETLANDS DO NOT EXIST ON THIS PROPERTY.

7. THE EROSION AND SEDIMENT CONTROL PLAN DESIGNER HAS VISITED THE SITE PRIOR TO DESIGN OF THE E & SC PLANS.

8. THE RECEIVING WATERS FOR THIS PROJECT IS THE EXISTING PORT WENTWORTH DRAINAGE SYSTEM, PARK POND, SEVERAL UN-NAMED CONVEYANCES, SAVANNAH RIVER AND ULTIMATELY THE ATLANTIC OCEAN.

9. ANY DISTURBANCE AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABALIZED WITH TEMPORARY SEEDING.

10. AMENDMENTS OR REVISIONS TO THE ES & PC PLAN WHICH HAVE A HYDRAULIC EFFECT ON THE PROJECT MUST BE APPROVED BY THE DESIGN ENGINEER.

CLEARING NOTES:

1. ALL ELEVATIONS ARE BASED ON 88 NAVD DATUM.

2. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL EXISTING UNDERGROUND UTILITIES PRIOR TO BEGINNING CONSTRUCTION ACTIVITIES AND FOR AVOIDING ALL CONFLICTS WITH SAME. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED AT THE EXPENSE OF THE CONTRACTOR.

3. ALL WORK SHALL BE IN COMPLIANCE WITH THE STATE SOIL AND WATER CONSERVATION COMMITTEE'S "MANUAL FOR EROSION AND SEDIMENTATION CONTROL IN GEORGIA. ALL SEDIMENT CONTROL FEATURES SHALL BE MAINTAINED ON A REGULAR BASIS AND SHALL BE REMOVED BY THE CONTRACTOR UPON ACCEPTANCE OF THE SITE BY THE OWNER. SEE LAND DISTURBING PLAN.

4. ALL DISTURBED AREAS AND PROPOSED EARTH GRADING NOT TO BE COVERED BY OTHER SURFACES SHALL BE GRASSED AS DESCRIBED ON THE LAND DISTURBING ACTIVITY PLAN.

5. EGRESS FROM THE SITE WILL BE SUCH THAT ALL VEHICLES MUST TRAVERSE CONSTRUCTION EXITS TO REMOVE MUD FROM TIRES BEFORE ENTERING ANY PAVED PUBLIC HIGHWAY.

6. BALES OF HAY, STRAW OR SILT FENCE SHALL BE PLACED AROUND ALL STORM INLETS TO PREVENT SEDIMENT FROM ENTERING NEW PIPE OR DRAINAGE WAYS DURING CONSTRUCTION. THESE MEASURES ARE TEMPORARY.

7. THE SITE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING POSITIVE DRAINAGE OF ALL AREAS WITHIN THE PROJECT SITE INCLUDING RIGHTS-OF-WAYS, EASEMENTS AND LOTS. THE CONTRACTOR SHALL PROVIDE THE NECESSARY FILL AND OR GRADING TO MEET THE FINISHED PLAN GRADES AND ELIMINATE ANY AND ALL AREAS WHICH ARE LOW AND DO NOT DRAIN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING PROPER DRAINAGE OF ANY AREAS WHICH ARE CHANGED AS A RESULT OF FIELD ADJUSTMENTS TO THE CONSTRUCTION PLANS.

8. THE CONTRACTOR WILL NOT BEGIN CLEARING OR ANY CONSTRUCTION ACTIVITY UNTIL THE APPROPRIATE PERMITS HAVE BEEN ISSUED.

9. IF REQUIRED, TREE PROTECTION BARRICADES SHALL BE INSTALLED PRIOR TO ANY CLEARING ACTIVITY AND MAINTAINED UNTIL INSTRUCTED BY OWNER OR ENGINEER TO REMOVE THEM.

10. THE CONTRACTOR SHALL TAKE SPECIAL CARE TO AVOID DAMAGE TO TREES AND ROOT SYSTEMS WHILE WORKING WITHIN TREE PROTECTION BARRICADES. THE CONTRACTOR SHALL NOT WORK WITHIN TREE PROTECTION BARRICADES WITHOUT A REPRESENTATIVE FROM THE OWNER OR ENGINEER PRESENT.

11. PRUNING OF TREE LIMBS, BRANCHES AND ROOTS OF TREES WHICH ARE WITHIN TREE PROTECTION BARRICADES SHALL BE DONE IN CONFORMANCE WITH SPECIFICATIONS AND RECOMMENDATIONS OF THE "NATIONAL ARBORIST ASSOCIATION" (N.A.A.) IN "PRUNING STANDARDS FOR SHADE TREES". ANY VARIATION FROM THE RECOMMENDATION OF THE N.A.A. SHALL BE APPROVED BY THE OWNER IN WRITING PRIOR TO ANY PRUNING.

12. LIMITS OF GRADING AND GRASSING ARE INDICATED ON PLANS AS "LIMITS OF DISTURBANCE".

13. ALL DISTURBED AREAS FROM NEW CONSTRUCTION ACTIVITIES WILL BE SEEDED, MULCHED, FERTILIZED AND WATERED TO PROMOTE A SUFFICIENT GROUND COVER THAT WILL PREVENT SOIL EROSION. SUFFICIENT COVERAGE SHALL BE AS SPECIFIED IN "EROSION CONTROL GRASSING".

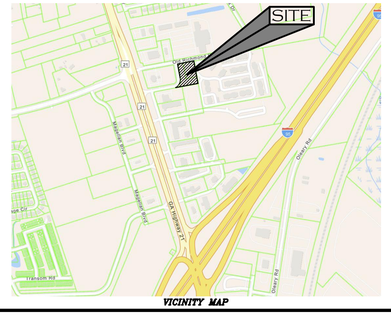
14. DRAINAGE: ALL EXCAVATION SHALL BE PERFORMED SO THAT THE SITE AND THE AREA IMMEDIATELY SURROUNDING THE SITE WHICH EFFECTS THE OPERATIONS WILL BE CONTINUALLY AND EFFECTIVELY DRAINED. SURFACE WATER, GROUNDWATER, OR ANY PERCHED WATER WHICH MIGHT BE ENCOUNTERED DURING EXCAVATIONS SHALL BE REMOVED BY ANY ACCEPTABLE MEANS APPROVED BY THE ENGINEER.

TENTATIVE ACTIVITY SCHEDULE

	2024					
	JAN	FEB	MAR	APR	MAY	JUNE
DEMOLITION, CLEARING, GRUBBING						
INSTALLATION OF SEDIMENT CONTROLS AND TREE PROTECTION BARRICADES						
TEMPORARY GRASSING						
SITE GRADING						
UTILITY INSTALLATION						
BUILDING CONSTRUCTION						
PERMANENT GRASSING						
PAVING						
MAINTENANCE OF SEDIMENT CONTROL						
REMOVAL OF SEDIMENT CONTROL						

SITE DATA

ZONE......"X"
TOTAL ACREAGE.....1.654 ACRES (LOTS 5 & 5A)
DISTURBED ACREAGE.....0.97 ACRES
S.C.S. SOIL SURVEY MAP AS PER WEB SOIL SURVEY



VICINITY MAP

Co

CRUSHED STONE CONSTRUCTION EXIT

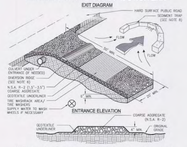


Figure 1. Crushed Stone Construction Exit Installation Requirements



Figure 2. Geotextile Underliner

MAINTENANCE

- Periodically dress with 1.5"-3.5" stone.
- Maintain in a condition that will prevent tracking or flow of mud onto public rights-of way.
- Immediately remove mud and debris tracked or spilled onto roadways.

75

Co

CONSTRUCTION EXIT

DEFINITION

A stone-stabilized pad located at any point where traffic will be leaving a construction site to a public right-of-way, street, alley, sidewalk, or parking area.



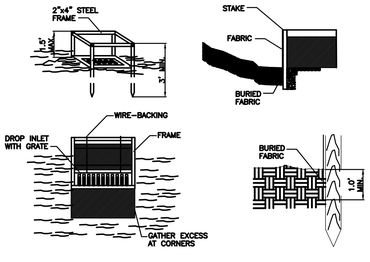
PURPOSE

- Reduce or eliminate the transport of mud from the construction area onto public right-of-ways.

INSTALLATION

- Install according to the approved plan.
- Use 1.5"-3.5" stone.
- Minimum pad thickness of 6".
- Minimum pad width of 20 ft.
- Minimum pad length of 50 ft.
- When the construction is less than 50 ft from the paved access, the length shall be from the edge of the existing pavement to the permitted building being constructed.
- When washing is required, conduct on an area stabilized with crushed stone and route runoff to an approved sediment trap or sediment basin.
- Place the geotextile liner the full length and width of the entrance.

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1. FOR STAKES, USE 2x4 INCH WOOD (PREFERRED) OR EQUIVALENT METAL WITH A MINIMUM LENGTH OF 3 FEET.
2. SPACE STAKES EVENLY AROUND THE PERIMETER OF THE INLET A MAXIMUM OF 3 FEET APART AND SECURELY DRIVE THEM INTO THE GROUND, APPROXIMATELY 18 INCHES DEEP.
3. TO PROVIDE NEEDED STABILITY TO THE INSTALLATION, FRAME WITH 2x4 INCH WOOD STRIPS AROUND THE CREST OF THE OVERFLOW AREA AT MAXIMUM OF 1.5 FEET ABOVE THE DROP INLET CREST.
4. PLACE THE BOTTOM 12 INCHES OF THE FABRIC IN TRENCH AND BACKFILL THE TRENCH WITH AT LEAST 4 INCHES OF CRUSHED STONE OR 12 INCHES OF COMPACTED SOIL.
5. FASTEN FABRIC SECURELY TO THE STAKES AND FRAME. JOINTS MUST BE OVERLAPPED TO THE NEXT STAKE.
6. THE TOP OF THE FRAME AND FABRIC MUST BE WELL BELOW THE GROUND ELEVATION DOWNSLOPE FROM THE DROP INLET TO KEEP RUNOFF FROM BYPASSING THE INLET. IT MAY BE NECESSARY TO BUILD A TEMPORARY DIKE ON THE DOWN SLOPE SIDE OF THE STRUCTURE TO PREVENT BYPASS FLOW.

INLET SEDIMENT TRAP DETAIL
FILTER FABRIC WITH SUPPORTING FRAME

Sd2-F

N.T.S.

STREAM BUFFER ENCROACHMENT NOTES :

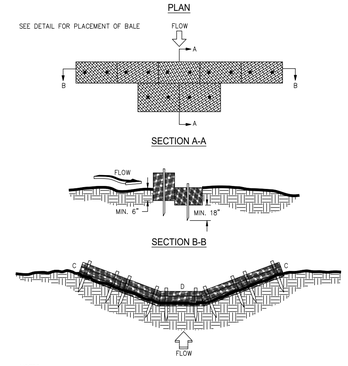
1. NEW STRUCTURES ON THIS PROJECT DO NOT ENCROACH IN THE 25 OR 50 FOOT STREAM BUFFER.

2. NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 OR 50 FOOT UNDISTURBED STREAM BUFFERS AS MEASURED FROM THE POINT OF WRESTED VEGETATION OR WITHIN 25 FEET OF THE COASTAL MARSHLAND BUFFER AS MEASURED FROM THE JURISDICTIONAL DETERMINATION LINE WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS.

WEIGHTED RUN-OFF COEFFICIENTS :

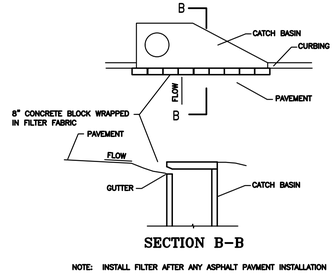
PRE-DEVELOPED = 83
POST-DEVELOPED = 92

TYPICAL STRAW BALE CHECK DAM



NOTES:
1. BALES SHOULD BE BOUND WITH WIRE OR NYLON STRING AND SHOULD BE PLACED IN ROWS WITH BALE ENDS TIGHTLY ABUTTING THE ADJACENT BALES.
2. REMOVE #4 REBAR AFTER STRAW BALES ARE NO LONGER IN PLACE.
3. POINT C OF SECTION B-B SHOULD ALWAYS BE HIGHER THAN POINT D.

Cd-HB



SECTION B-B

NOTE: INSTALL FILTER AFTER ANY ASPHALT PAVMENT INSTALLATION

INLET SEDIMENT TRAP DETAIL
CURB INLET FILTER ("PIGS IN BLANKET")

Sd2-P

SPECIAL ORDINANCE NOTE :

IN CASE OF CONFLICT BETWEEN THESE PLANS AND THE CITY OF PORT WENTWORTH'S ORDINANCES STANDARDS, SPECIFICATIONS OR DETAILS, THE CITY OF PORT WENTWORTH'S, STANDARDS ARE TO TAKE PRECEDENCE.

LEVEL II CERTIFICATION NO. 2104
ISSUED 11-5-05
EXPIRES 11-15-26

REVISIONS

BOSWELL DESIGN SERVICES, INC.
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LAHBOS@Bellsouth.net

DESIGNED ---
DRAWN MAB
CHECKED ---
DATE : NOV. 26, 2024
JOB NO. ---
SCALE: as shown

SHOPPING CENTER DEVELOPMENT SITEWORK PLANS
0 OLD RICHMOND ROAD
PORT WENTWORTH, GA 31407
FOR
NISHANT RANDERWALA
PORT WENTWORTH, GA

NOTES AND DETAILS

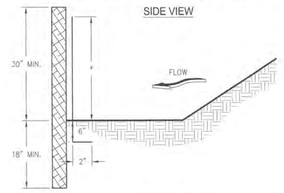
CONTACT A MINIMUM OF 72 HOURS PRIOR TO DIGGING
GEORGIA UTILITIES PROTECTION CENTER
811
UTILITIES PROTECTION CENTER
1-800-282-7411

GEORGIA REGISTERED
Mark Boswell
No. 28372
PROFESSIONAL
11-26-24
ENGINEER
MARK A. BOSWELL

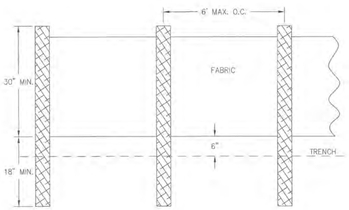
DRAWING NUMBER
C-19
19 OF 28 SHEETS

SILT FENCE - TYPE NON-SENSITIVE

SIDE VIEW



FRONT VIEW



NOTES:
1. USE STEEL OR WOOD POSTS OR AS SPECIFIED BY THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
2. HEIGHT (*) IS TO BE SHOWN ON THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.

Figure 6-27.1

PERFORMANCE EVALUATION

For a product or practice to be approved as a sediment barrier, that product or practice must have a documented P-factor no greater than 0.045 for non-sensitive areas or a P-factor no greater than 0.030 for sensitive areas, as specified by GSWCC. For complete test procedures and approved products list please visit www.gaswcc.georgia.gov.

Table 6-27.1 Criteria for Sediment Barrier

Land Slope	Maximum Slope Length Above Fence
Percent	Feet
< 2	100
2 to 5	75
5 to 10	50
10 to 20	25
>20*	15

*In areas where the slope is greater than 20%, a flat area length of 10 feet between the toe of slope to the barrier should be provided.

Table 6-27.2 Post Size

Type	Min Length	Type of Post	Size of Post
NS	4'	Soft wood Oak Steel	3"dia or 2x4 1.5" x1.5" 1.3lb./ft. min
S	4'	Steel Oak	1.3lb./ft. min 2"x2"

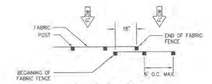
Table 6-27.3 Fasteners for Wood Posts

	Guage	Crown	Legs	Staples / Post
Wire Staples	17 min.	3/4" wide	1/2" long	5 min.
	Guage	Length	Button Heads	Nail/ Post
Nails	14 min.	1"	3/4"	4 min.

Note: Filter Fabric may also be attached to the post by wire, chors, and pockets or any other method provided minimum P-factor, as required by GSWCC, is met.

FASTENERS FOR SILT FENCES

OVERLAP AT FABRIC ENDS



TOP VIEW – NOT TO SCALE



FRONT VIEW – NOT TO SCALE

NOTES:
1. THE FABRIC AND WIRE SHOULD BE SECURELY FASTENED TO POSTS AND FABRIC ENDS MUST BE OVERLAPPED A MINIMUM OF 18" OR WRAPPED TOGETHER AROUND A POST TO PROVIDE A CONTINUOUS FABRIC BARRIER AROUND THE PILE.

Figure 6-27.5

SD1-NS DETAIL

BMP REMOVAL NOTE :

1. RETROFITS, PERIMETER SILT FENCE AND CONSTRUCTION EXIT TO BE LEFT IN PLACE UNTIL FINAL STABILIZATION HAS OCCURED.

2. ONCE THE SITE IS PAVED THE CONSTRUCTION EXIT IS NO LONGER NEEDED.

STREAM BUFFER ENCROACHMENT NOTES :

1. NEW STRUCTURES ON THIS PROJECT DO NOT ENCROACH IN THE 25 OR 50 FOOT STREAM BUFFER.

2. NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 OR 50 FOOT UNDISTURBED STREAM BUFFERS AS MEASURED FROM THE POINT OF WRESTED VEGETATION OR WITHIN 25 FEET OF THE COASTAL MARSHLAND BUFFER AS MEASURED FROM THE JURISDICTIONAL DETERMINATION LINE WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS.

Erosion and Sediment Control Phasing

Initial Phase (Phase I)

1. This phase shall include Silt fencing and construction exits and sediment and detention ponds to be installed prior to any land disturbing activities to prevent sediment from leaving the site.

Intermediate Phase (Phase II)

1. This phase shall include construction of any outlet structures, retrofits, check dams, inlets protection and temporary grassing.

Final Phase (Phase III)

1. This phase shall include outfall protection, any revised inlet protection and any other permanent devices.

~~PHASE I~~
~~REQUIRED TEMPORARY SEDIMENT STORAGE~~

~~SEDIMENT STORAGE WILL BE ACHIEVED IN BOTTOM OF TEMPORARY POND~~

~~REQUIRED SEDIMENT STORAGE TEMPORARY BASIN 1 :~~

~~67 C.Y. / ACRE x 1.75 ACRES DISTURBED = 117.3 C.Y. REQUIRED~~

~~SILT STORAGE:~~

~~TEMPORARY BASIN = 125 CY~~
~~125 CY (supplied) > 117.3 CY (required)~~

~~PHASE II AND PHASE III~~
~~REQUIRED SEDIMENT STORAGE CALCULATIONS~~

~~SEDIMENT STORAGE WILL BE ACHIEVED WITHIN SEDIMENT TRAPS - SEE C-17 FOR DETAILS~~

~~REQUIRED SEDIMENT STORAGE:~~

~~67 C.Y. / ACRE x 1.75 ACRES DISTURBED = 117.3 C.Y. REQUIRED~~

~~SILT STORAGE~~

~~WITHIN TRAPS = 3,180 CF = 117.8 CY (SEE C-19 FOR DETAILS)~~
~~TOTAL SEDIMENT STORAGE = 117.8 CY~~
~~117.8 CY (supplied) > 117.3 CY (required)~~

STORM AND UTILITIES MANHOLE AND BOX NOTES :

1. INVERT ELEVATIONS ARE TO BE CONSIDERED AS PIPE INVERTS AND NOT AS THE INVERT OF THE MANHOLE, BOX, ETC.

DESCRIPTION OF STORM WATER POLLUTION DISCHARGE PREVENTION PRACTICES

1. THE FOLLOWING IS A DESCRIPTION OF THE PRACTICES TO BE USED BUT NOT LIMITED TO :
   A. CONSTRUCTION EXIT
   B. SILT FENCING
   C. TEMPORY SEDIMENT BASINS
   D. HAY BALE CHECK DAMS
   E. STONE CHECK DAMS
   F. STORM OUTLET PROTECTION
   G. GRASSING
   ~~H. DETENTION POND~~
   ~~I. SKIMMER~~
   J. DUST CONTROL
   K. CONCRETE WASHDOWN PIT

SPECIAL ORDINANCE NOTE :

IN CASE OF CONFLICT BETWEEN THESE PLANS AND THE CITY OF PORT WENTWORTH'S ORDINANCES STANDARDS, SPECIFICATIONS OR DETAILS, THE CITY OF PORT WENTWORTH'S, STANDARDS ARE TO TAKE PRECEDENCE.

GEORGIA
UNIFORM CODING SYSTEM
FOR SOIL EROSION AND SEDIMENTATION CONTROL PRACTICES
GEORGIA SOIL AND WATER CONSERVATION COMMISSION

STRUCTURAL PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Cd	CHECKDAM			A small temporary barrier or dam constructed across a swale, drainage ditch or area of concentrated flow.
Ch	CHANNEL STABILIZATION			Improving, constructing or stabilizing an open channel, existing stream, or ditch.
Ce	CONSTRUCTION EXIT			A crushed stone pad located at the construction site exit to provide a place for removing mud from tires thereby protecting public streets.
Cr	CONSTRUCTION ROAD STABILIZATION			A travelway constructed as part of a construction plan including access roads, subdivision roads, parking areas and other on-site vehicle transportation routes.
Dc	STREAM DIVERSION CHANNEL			A temporary channel constructed to convey flow around a construction site while a permanent structure is being constructed.
Dl	DIVERSION			An earth channel or dike located above, below, or across a slope to divert runoff. This may be a temporary or permanent structure.
Dn1	TEMPORARY DOWNDRAIN STRUCTURE			A flexible conduit of heavy-duty fabric or other material designed to safely conduct surface runoff down a slope. This is temporary and inexpensive.
Dn2	PERMANENT DOWNDRAIN STRUCTURE			A paved chute, pipe, sectional conduit or similar material designed to safely conduct surface runoff down a slope.
Fr	FILTER RING			A temporary stone barrier constructed at storm drain inlets and pond outlets.
Ga	GABION			Rock filter baskets which are hand-placed into position forming soil stabilizing structures.
Gr	GRADE STABILIZATION STRUCTURE			Permanent structures installed to protect channels or waterways where otherwise the slope would be sufficient for the running water to form gullies.
Lv	LEVEL SPREADER			A storm flow outlet device constructed at zero grade across the slope whereby concentrated runoff may be discharged as a non-erosive velocity onto undisturbed areas stabilized by existing vegetation.
Rd	ROCK FILTER DAM			A temporary stone filter dam installed across drainageways or in conjunction with a temporary sediment trap.
Re	RETAINING WALL			A wall installed to stabilize cut and fill slopes where maximum permissible slopes are not obtainable. Each situation will require special design.
Rt	RISER FITTING			A device or structure placed in front of a permanent stormwater detention pond outlet structure to serve as a temporary sediment filter.
Sd1	SEDIMENT BARRIER			A barrier to prevent sediment from leaving the construction site. It may be sandbags, bales of straw or hay, brush, logs and poles, or a silt fence.
Sd2	INLET SEDIMENT TRAP			A temporary protective device formed at or around an inlet to a storm drain to trap sediment.
Sd3	TEMPORARY SEDIMENT BASIN			A basin created by excavation or a dam across a waterway. The surface water runoff is temporarily stored allowing the bulk of the sediment to drop out.
Sd4	TEMPORARY SEDIMENT TRAP			A small temporary pond that drains a disturbed area so that sediment can settle out. The principle feature distinguishing a temporary sediment trap from a temporary sediment basin is the lack of a pipe or riser.
Sk	FLOATING SURFACE SKIMMER			A buoyant device that releases/drains water from the surface of sediment ponds, traps, or basins at a controlled rate of flow.
SpB	SWEPT BERM			A linear control device constructed as a diversion perpendicular to the direction of the runoff to enhance dissipation and infiltration of runoff, while creating multiple sedimentation chambers with the employment of intermediate dikes.

STRUCTURAL PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Sr	TEMPORARY STREAM CROSSING			A temporary bridge or culvert-type structure protecting a stream or watercourse from damage by crossing construction equipment.
St	STORMDRAIN OUTLET PROTECTION			A paved or short section of riprap channel at the outlet of a storm drain system preventing erosion from the concentrated runoff.
Su	SURFACE ROUGHENING			A rough soil surface with horizontal depressions on a contour or slopes left in a roughened condition after grading.
Tc	TURBIDITY CURTAIN			A floating or staked barrier installed within the water (it may also be referred to as a floating boom, silt barrier, or silt curtain).
Tp	TOPSOILING			The practice of stripping off the more fertile soil, storing it, then spreading it over the disturbed area after completion of construction activities.
Tr	TREE PROTECTION			To protect desirable trees from injury during construction activity.
Wt	VEGETATED WATERWAY OR STORMWATER CONVEYANCE CHANNEL			Paved or vegetative water outlets for diversions, terraces, berms, dikes or similar structures.

VEGETATIVE PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Bf	BUFFER ZONE			Strip of undisturbed original vegetation, enhanced or restored existing vegetation or the reestablishment of vegetation surrounding an area of disturbance or bordering streams.
Cs	COASTAL DUNE STABILIZATION (WITH VEGETATION)		Cs	Planting vegetation on dunes that are denuded, artificially constructed, or re-nourished.
Ds1	DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)		Ds1	Establishing temporary protection for disturbed areas where seedings may not have a suitable growing season to produce an erosion retarding cover.
Ds2	DISTURBED AREA STABILIZATION (WITH TEMP. SEEDING)		Ds2	Establishing a temporary vegetative cover with fast growing seedings on disturbed areas.
Ds3	DISTURBED AREA STABILIZATION (WITH PERM SEEDING)		Ds3	Establishing a permanent vegetative cover such as trees, shrubs, vines, grasses, or legumes on disturbed areas.
Ds4	DISTURBED AREA STABILIZATION (SODDING)		Ds4	A permanent vegetative cover using sods on highly erodible or critically eroded lands.
Du	DUST CONTROL ON DISTURBED AREAS		Du	Controlling surface and air movement of dust on construction site, roadways and similar sites.
Fl-Cd	FLOCCULANTS AND COAGULANTS		Fl-Cd	Substance formulated to assist in the solids/liquid separation of suspended particles in solution.
Sb	STREAMBANK STABILIZATION (VEGETATIVE STABILIZATION)		Sb	The use of readily available native plant materials to maintain and enhance streambanks, or to prevent, or restore and repair small streambank erosion problems.
Ss	SLOPE STABILIZATION		Ss	A protective covering used to prevent erosion and establish temporary or permanent vegetation on steep slopes, stone lines, or channels.
Tac	TACKIFIERS AND BINDERS		Tac	Substance used to anchor straw or hay mulch by causing the organic material to bind together.

GSWCC 2016 Edition 2-12

SPECIAL SOIL EROSION PREVENTION NOTES :

1. The state of Georgia requires that the initial soil erosion prevention measures shall be inspected by the designer within 7 days after installation.

2. It is the responsibility of the contractor to notify the soil erosion prevention plan designer within 7 days after the initial soil erosion measures are in place for inspection.

3. Soil erosion prevention plans shall be kept current and on site or readily accessible at all times during the duration of the project until after final stabilization has occurred.

~~4. Primary permittee must provide a copy of the soil erosion prevention plans to each secondary permittee.~~

5. Contractor is to keep a record of his inspections of the soil erosion control measures to include at least the following:
   a. date and scope of the inspection
   b. name of person performing inspection
   c. major observations (including noncompliance incidents)
Inspection reports are to be kept current and on site or readily accessible at all times during the duration of the project until after final stabilization has occurred.

6. Sampling of the outfall is the responsibility of the primary permittee and sampling requirements are to be as per the NPDES general permit.

7. Silt fencing is to remain in place until final stabilization.

8. Waste materials shall not be discharged to state waters except as authorized by a section 404 permit.

9. These ES & PC plans are in compliance with waste disposal, sanitary sewer and septic tank regulations.

10. Great care shall be taken to prevent oil spills and leaks. In the event that a spill shall occur, stop the spill source immediately and implement BMP's and clean-up for the spill.

LEVEL II CERTIFICATION NO. 2104
ISSUED 11-5-05
EXPIRES 11-15-26

SPECIAL CONSTRUCTION NOTE:

IF THE CONTRACTOR KNOWS OR CAN REASONABLY BE EXPECTED TO HAVE KNOWN OF AN ERROR, DISCREPANCY OR CONFLICT IN THE PLANS, SPECIFICATIONS OR CONSTRUCTION STAKING AND FAILS TO REPORT THE PROBLEM PRIOR TO CONSTRUCTION, HE SHALL NOT BE ENTITLED TO COMPENSATION FOR ANY WORK OR EXPENSE INCURRED BY HIM FOR WORK REQUIRED TO BE RE-CONSTRUCTED BECAUSE OF SAID ERROR, DISCREPANCY OR CONFLICT.

REVISIONS

BOSWELL DESIGN SERVICES, INC.
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Unit K, Suite 1
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SAVANNAH, GEORGIA 31410
912 - 897 - 6932
LAHBOS@Bellsouth.net

DESIGNED ---
DRAWN MAB
CHECKED ---
DATE: NOV. 26, 2024
JOB NO. ---
SCALE: as shown

SHOPPING CENTER DEVELOPMENT SITEWORK PLANS
0 OLD RICHMOND ROAD
PORT WENTWORTH, GA 31407
FOR
NISHANT RANDERWALA
PORT WENTWORTH, GA

NOTES AND DETAILS

CONTACT A MINIMUM OF 72 HOURS PRIOR TO DIGGING
GEORGIA UTILITIES PROTECTION CENTER
1-800-282-7411

GEORGIA REGISTERED
Mark Boswell
No. 28372
PROFESSIONAL
11-26-24
ENGINEER
MARK A. BOSWELL

DRAWING NUMBER
C-20
20 OF 28 SHEETS

7 DAY INSPECTION NOTE :

The design professional is to inspect the installation of the initial sediment storage requirements and perimeter control BMP's. The design professional must be retained by the primary permittee to conduct a site inspection within seven (7) days after the the installation of the initial sediment storage requirements and perimeter control BMP's. The design professional must report the results of the inspection to the primary permittee within seven (7) days and the primary must correct all deficiencies identified in the report within two (2) business days after receiving the report (unless additional time is needed due to adverse weather). The primary permittee may use an alternate design professional to conduct the BMP inspection, provided that they make a written request to EPD to change from the design professional who developed the plan and EPD has agreed.

DESIGN PROFESSIONAL 7 DAY VISIT CERTIFICATION

Date of Inspection :

I certify the site was in compliance with the ES&PC Plan on the date of inspection.

Mark Boswell 2104

GSWC LEVEL II DESIGN PROFESSIONAL CERTIFICATION #

Inspection revealed the following discrepancies from the ES&PC Plan.

These deficiencies must be addressed immediately and a re-inspection scheduled. Work shall not proceed on the site until design Professional Certification is obtained.

PRODUCT SPECIFIC PRACTICES

1. Petroleum Based Products – Containers for products such as fuels, lubricants and tars will be inspected daily for leaks and spills. This includes on-site vehicle and machinery daily inspections and regular preventative maintenance of such equipment. Equipment maintenance areas will be located away from state water, natural drains and storm water drainage inlets. In addition, temporary fueling tanks shall have a secondary containment liner to prevent/minimize site contamination. Discharge of oils, fuels, and lubricants is prohibited. Proper disposal methods will include collection in a suitable container and disposal as required by local and State regulations.

2. Paints / Finishes / Solvents – All products will be stored in tightly sealed original containers when not in use. Excess product will not be discharged to the storm water collection system. Excess product, materials used with these products and product containers will be disposed of according to manufacturer's specifications and recommendations.

3. Concrete Truck Washing

a. Coordinate with site superintendent to excavate a pit deep enough to contain the wash down water.

b. Back equipment into pit.

c. Wash down only the chute hopper and rear of the vehicle. DO NOT WASH OUT DRUM.

d. Make sure wash down water goes into and stays in the pit.

e. Coordinate with site superintendent to fill in pit and smooth out ground.

f. Never allow wash down to enter a storm system.

4. Fertilizer / Herbicides – These products will be applied at rates that do not exceed the manufacturer's specifications or above the guidelines set forth in the crop establishment or in the GSWCC Manual for Erosion and Sediment Control in Georgia. Any storage of these materials will be under roof in sealed containers.

5. Building Materials – No building materials will be buried or disposed on-site. All such materials will be disposed of in proper waste disposal procedures.

Soil Cleanup and Control Practices

1. Local, State and manufacturer's recommended methods for spill cleanup will be clearly posted and procedures will be made available to site personnel.

2. Material and equipment necessary for spill cleanup will be kept in the material storage areas. Typical materials and equipment includes, but is not limited to, brooms, dustpans, mops, rags, gloves, goggles, cat litter, sand, saw dust and properly labeled plastic and metal waste containers.

3. Spill prevention practices and procedures will be reveiwed after a spill and adjusted as necessary to prevent future spills.

4. All spills will be cleaned up immediately upon discovery. All spills will be reported as required by local, State and Federal regulations.

5. FOR SPILLS THAT IMPACT SURFACE WATER (LEAVE A SHEEN ON SURFACE WATER). THE NATIONAL RESPONSE CENTER (NRC) WILL BE CONTACTED WITHIN 24 HOURS AT 1-800-424-8802.

6. FOR SPILLS OF AN UNKNOWN AMOUNT, THE NATIONAL CENTER (NRC) WILL BE CONTACTED WITHIN 24 HOURS AT 1-800-424-8802.

7. FOR SPILLS GREATER THAN 25 GALLONS AND NO SURFACE WATER IMPACTS, THE GEORGIA EPD WILL BE CONTACTED WITHIN 24 HOURS.

8. FOR SPILLS LESS THAN 25 GALLONS AND NO SURFACE WATER IMPACTS, THE SPILL WILL BE CLEANED UP AND LOCAL AGENCIES WILL BE CONTACTED AS REQUIRED.

9. The contractor shall notify the licensed professional who prepared this plan if more than 1,320 gallons of petroleum is stored onsite (this includes capacities of equipment) or if any one piece of equipment has a capacity greater than 660 gallons. The Contactor will need a Spill Prevention Containment and Countermeasures Plan prepared by that licenseed professional.

SANITARY WASTES :

1. A minimum of one portable sanitary unit will be provided for every ten (10) workers on the site. All sanitary waste will be collected from the portable units a minimum of one time per week by a licensed portable facility provider in complete compliance with local and state regulations.

2. All sanitary waste units will be located in an area where the likelihood of the unit contributing to storm water discharge in negligible. Additional containment BMP's must be implemented, such as gravel bags or specially designed plastic skid containers around the base, to prevent wastes from contributing to storm water dischoges. The location of sanitary waste units must be identified on the Erosion Control Plan Grading Phase Sheet by the contractor once the locations have been determined.

3. Sanitary Sewer will be provided by Municipal Authority/Septic System at the completion of this project.

HAZARDOUS WASTES :

1. All hazardous waste materials will be disposed of in the manner specified by local, state, and/or federal regulations and by the manufacturer of such products. The jobsite superintendent, who will also be responsible for seeing that these practices are followed, will instruct site personnel in these practices. Material Softey Data Sheets (MSDS's) for each substance with hazradous properties that is used on the job site will be obtained and used for the proper management of potential wastes that may result from these products. An MSDS will be posted in the immediate area where such product is stored and/or used and another copy of the MSDS will be maintained in the ESPCP file at the jobsite construction trailer office. Each employee who must handle a substance with hazrdous properties will be instructed on the use of MSDS sheets and the specific information in the applicable MSDS for the product he/she is using, particularly regarding spill control techniques.

2. The contractor will implement the Spill Prevention Control and Countermeasures (SPCC) Plan found within this ESPCP and will train all personnel in the proper cleanup and handling of spilled materials. No spilled , hazardous materials or hazardous wastes will be allowed to come in contact with storm water discharges. If such contact occurs, the storm water discharge will be continued on site until appropriate measures in compliance with state and federal regulations are taken to dispose of such contaminated storm water. It shall be the responsibility of the job site superintendent to properly train all personnel in the use of the SPCC plan.

APPENDIX B

Nephelometric Turbidity Unit (NTU) Tables

Cold Water (Trout Stream)

Surface Water Drainage Area, square miles

SITE SIZE ACRES	0-4.99	5-9.99	10-24.99	25-49.99	50-99.99	100-249.99	250-499.99	500+
1.00-10	25	50	75	150	300	500	500	500
10.01-25	25	25	50	75	150	200	500	500
25.01-50	25	25	25	50	75	100	300	500
50.01-100	20	25	25	35	50	75	150	300
100.01+	20	20	25	25	25	50	60	100

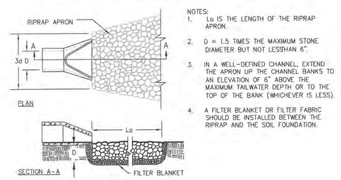
Warm Water (Supporting Warm Water Fisheries)

Surface Water Drainage Area, square miles

SITE SIZE ACRES	0-4.99	5-9.99	10-24.99	25-49.99	50-99.99	100-249.99	250-499.99	500+
1.00-10	75	150	200	400	750	750	750	750
10.01-25	50	100	100	200	300	500	750	750
25.01-50	50	50	100	100	200	300	750	750
50.01-100	50	50	50	100	100	150	300	600
100.01+	50	50	50	50	50	100	200	100

RIPRAP OUTLET PROTECTION

PIPE OUTLET TO FLAT AREA – NO WELL DEFINED CHANNEL



NOTES:
1. Lo IS THE LENGTH OF THE RIPRAP APRON.
2. D = 1.5 TIMES THE MAXIMUM STONE DIAMETER BUT NOT LESSTHAN 6".
3. IN A WELL-DEFINED CHANNEL, EXTEND THE APRON UP THE CHANNEL BANKS TO AN ELEVATION OF 6" ABOVE THE MAXIMUM TAILWATER DEPTH OR TO THE TOP OF THE BANK (WHICHEVER IS LESS).
4. A FILTER BLANKET OR FILTER FABRIC SHOULD BE INSTALLED BETWEEN THE RIPRAP AND THE SOIL FOUNDATION.

PIPE OUTLET TO WELL DEFINED CHANNEL

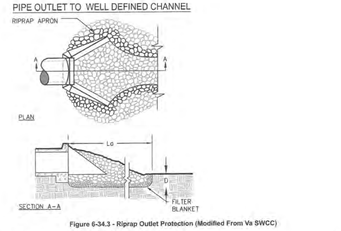


Figure 6-34.3 - Riprap Outlet Protection (Modified From Va SWCC)

GSWCC 2016 Edition 6-212

RIP-RAP OUTLET PROTECTION

St

N.T.S.

DESCRIPTION OF STORM WATER POLLUTION DISCHARGE PREVENTION PRACTICES

1. THE FOLLOWING IS A DESCRIPTION OF THE PRACTICES TO BE USED BUT NOT LIMITED TO :
   - A. CONSTRUCTION EXIT
   - B. SILT FENCING
   - C. TEMPORY SEDIMENT BASINS
   - D. HAY BALE CHECK DAMS
   - E. STONE CHECK DAMS
   - F. STORM OUTLET PROTECTION
   - G. GRASSING
   - ~~H. DETENTION POND~~
   - ~~I. SKIMMER~~
   - J. DUST CONTROL
   - K. CONCRETE WASHDOWN PIT

EROSION, SEDIMENT AND POLUTION CONTROL NOTES :

4. Inspections.

a. Permittee requirements.

(1). Each day when any type of construction activity has taken place at a primary permittee's site, certified personnel provided by the primary permittee shall inspect: (a) all areas at the primary permittee's site where petroleum products are stored, used, or handled for spills and leaks from vehicles and equipment and (b) all locations at the primary permittee's site where vehicles enter or exit the site for evidence of off-site sediment tracking. These inspections must be conducted until a Notice of Termination is submitted.

(2). Measure and record rainfall within disturbed areas of the site that have not met final stabilization once every 24 hours except any non-working Saturday, non-working Sunday and non-working Federal holiday. The data collected for the purpose of compliance with this permit shall be representative of the monitored activity. Measurement of rainfall may be suspended if all areas of the site have undergone final stabilization or established a crop of annual vegetation and a seeding of target perennials appropriate for the region.

(3). Certified personnel (provided by the primary permittee) shall inspect the following at least once every seven (7) calendar days and within 24 hours of the end of a storm that is 0.5 inches rainfall or greater (unless such storm ends after 5:00 PM on any Friday or on any non-working Saturday, non-working Sunday or any non-working Federal holiday in which case the inspection shall be completed by the end of the next business day and/or working day, whichever occurs first): (a) disturbed areas of the primary permittee's construction site; (b) areas used by the primary permittee for storage of materials that are exposed to precipitation; and (c) structural control measures. Erosion and sediment control measures identified in the Plan applicable to the primary permittee's site shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving water(s). For areas of a site that have undergone final stabilization or established a crop of annual vegetation and a seeding of target perennials appropriate for the region, the permittee must comply with Part IV.D.4.a.(4). These inspections must be conducted until a Notice of Termination is submitted.

(4). Certified personnel (provided by the primary permittee) shall inspect at least once per month during the term of this permit (i.e., until a Notice of Termination has been submitted) the areas of the site that have undergone final stabilization or established a crop of annual vegetation and a seeding of target perennials appropriate for the region. These areas shall be inspected for evidence of, or the potential for, pollutants entering the drainage system and the receiving water(s). Erosion and sediment control measures identified in the Plan shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving water(s).

(5). Based on the results of each inspection, the site description and the pollution prevention and control measures identified in the Erosion, Sedimentation and Pollution Control Plan, the Plan shall be revised as appropriate not later than seven (7) calendar days following each inspection. Implementation of such changes shall be made as soon as practical but in no case later than seven (7) calendar days following each inspection.

(6). A report of each inspection that includes the name(s) of certified personnel making each inspection, the date(s) of each inspection, construction phase (i.e., initial, intermediate or final), major observations relating to the implementation of the Erosion, Sedimentation and Pollution Control Plan, and actions taken in accordance with Part IV.D.4.a.(5). of the permit shall be made and retained at the site or be readily available at a designated alternate location until the entire site or that portion of a construction site that has been phased has undergone final stabilization and a Notice of Termination is submitted to EPD. Such reports shall be readily available by end of the second business day and/or working day and shall identify all incidents of best management practices that have not been properly installed and/or maintained as described in the Plan. Where the report does not identify any incidents, the inspection report shall contain a certification that the best management practices are in compliance with the Erosion, Sedimentation and Pollution Control Plan. The report shall be signed in accordance with Part V.G.2. of this permit.

5. Maintenance. The Plan shall include a description of procedures to ensure the timely maintenance of vegetation, erosion and sediment control measures and other protective measures identified in the site plan.

6. Sampling Requirements. This permit requires the monitoring of nephelometric turbidity in receiving water(s) or outfalls in accordance with this permit. This paragraph shall not apply to any land disturbance associated with the construction of single-family homes which are not part of a subdivision or planned common development unless five (5) acres or more will be disturbed. The following procedures constitute EPD's guidelines for sampling turbidity.

a. *Sampling Requirements* shall include the following:

(1). A USGS topographic map, a topographic map or a drawing (referred to as a topographic map) that is a scale equal to or more detailed than a 1:24000 map showing the location of the site or the stand alone construction; (a) the location of all perennial and intermittent streams and other water bodies as shown on a USGS topographic map, and all other perennial and intermittent streams and other water bodies located during mandatory field verification, into which the stormwater is discharged and (b) the receiving water and/or outfall sampling locations. When the permittee has chosen to use a USGS topographic map and the receiving water(s) is not shown on the USGS topographic map, the location of the receiving water(s) must be hand-drawn on the USGS topographic map from where the stormwater(s) enters the receiving water(s) to the point where the receiving water(s) combines with the first blue line stream shown on the USGS topographic map;

(2). A written narrative of site specific analytical methods used to collect, handle and analyze the samples including quality control/quality assurance procedures. This narrative must include precise sampling methodology for each sampling location;

(3). When the permittee has determined that some or all outfalls will be sampled, a rationale must be included on the Plan for the NTU limit(s) selected from Appendix B. This rationale must include the size of the construction site, the calculation of the size of the surface water drainage area, and the type of receiving water(s) (i.e., trout stream or supporting warm water fisheries); and

(4). Any additional information EPD determines necessary to be part of the Plan. EPD will provide written notice to the permittee of the information necessary and the time line for submittal.

b. *Sample Type.* All sampling shall be collected by "grab samples" and the analysis of these samples must be conducted in accordance with methodology and test procedures established by 40 CFR Part 136 (unless other test procedures have been approved); the guidance document titled "NPDES Storm Water Sampling Guidance Document, EPA 833-B-92-001" and guidance documents that may be prepared by the EPD.

(1). Sample containers should be labeled prior to collecting the samples.

(2). Samples should be well mixed before transferring to a secondary container.

(3). Large mouth, well cleaned and rinsed glass or plastic jars should be used for collecting samples. The jars should be cleaned thoroughly to avoid contamination.

(4). Manual, automatic or rising stage sampling may be utilized. Samples required by this permit should be analyzed immediately, but in no case later than 48 hours after collection. However, samples from automatic samplers must be collected no later than the next business day after their accumulation, unless flow through automated analysis is utilized. If automatic sampling is utilized and the automatic sampler is not activated during the qualifying event, the permittee must utilize manual sampling or rising stage sampling during the next qualifying event. Dilution of samples is not required. Samples may be analyzed directly with a properly calibrated turbidimeter. Samples are not required to be cooled.

(5). Sampling and analysis of the receiving water(s) or outfalls beyond the minimum frequency stated in this permit must be reported to EPD as specified in Part IV.E.

c. *Sampling Points.*

(1). For construction activities the primary permittee must sample all receiving water(s), or all outfall(s), or a combination of receiving water(s) and outfall(s). Samples taken for the purpose of compliance with this permit shall be representative of the monitored activity and representative of the water quality of the receiving water(s) and/or the stormwater outfalls using the following minimum guidelines:

(a). The upstream sample for each receiving water(s) must be taken immediately upstream of the confluence of the first stormwater discharge from the permitted activity (i.e., the discharge farthest upstream at the site) but downstream of any other stormwater discharges not associated with the permitted activity. Where appropriate, several upstream samples from across the receiving water(s) may need to be taken and the arithmetic average of the turbidity of these samples used for the upstream turbidity value.

Sedimentation and Pollution Control Plan. The report shall be signed in accordance with Part V.G.2. of this permit.

5. Maintenance. The Plan shall include a description of procedures to ensure the timely maintenance of vegetation, erosion and sediment control measures and other protective measures identified in the site plan.

6. Sampling Requirements. This permit requires the monitoring of nephelometric turbidity in receiving water(s) or outfalls in accordance with this permit. This paragraph shall not apply to any land disturbance associated with the construction of single-family homes which are not part of a subdivision or planned common development unless five (5) acres or more will be disturbed. The following procedures constitute EPD's guidelines for sampling turbidity.

a. *Sampling Requirements* shall include the following:

(1). A USGS topographic map, a topographic map or a drawing (referred to as a topographic map) that is a scale equal to or more detailed than a 1:24000 map showing the location of the site or the stand alone construction; (a) the location of all perennial and intermittent streams and other water bodies as shown on a USGS topographic map, and all other perennial and intermittent streams and other water bodies located during mandatory field verification, into which the stormwater is discharged and (b) the receiving water and/or outfall sampling locations. When the permittee has chosen to use a USGS topographic map and the receiving water(s) is not shown on the USGS topographic map, the location of the receiving water(s) must be hand-drawn on the USGS topographic map from where the stormwater(s) enters the receiving water(s) to the point where the receiving water(s) combines with the first blue line stream shown on the USGS topographic map;

(2). A written narrative of site specific analytical methods used to collect, handle and analyze the samples including quality control/quality assurance procedures. This narrative must include precise sampling methodology for each sampling location;

(3). When the permittee has determined that some or all outfalls will be sampled, a rationale must be included on the Plan for the NTU limit(s) selected from Appendix B. This rationale must include the size of the construction site, the calculation of the size of the surface water drainage area, and the type of receiving water(s) (i.e., trout stream or supporting warm water fisheries); and

(4). Any additional information EPD determines necessary to be part of the Plan. EPD will provide written notice to the permittee of the information necessary and the time line for submittal.

(2). However, where manual and automatic sampling are impossible (as defined in this permit), or are beyond the permittee's control, the permittee shall take samples as soon as possible, but in no case more than twelve (12) hours after the beginning of the stormwater discharge.

(3). Sampling by the permittee shall occur for the following qualifying events:

(a). For each area of the site that discharges to a receiving water or from an outfall, the first rain event that reaches or exceeds 0.5 inch with a stormwater discharge that occurs during normal business hours as defined in this permit after all clearing and grubbing operations have been completed, but prior to completion of mass grading operations, in the drainage area of the location selected as the sampling location;

(b). In addition to (a) above, for each area of the site that discharges to a receiving water or from an outfall, the first rain event that reaches or exceeds 0.5 inch with a stormwater discharge that occurs during normal business hours as defined in this permit either 90 days after the first sampling event or after all mass grading operations have been completed, but prior to submittal of a NOT, in the drainage area of the location selected as the sampling location, whichever comes first;

(c). At the time of sampling performed pursuant to (a) and (b) above, if BMPs in any area of the site that discharges to a receiving water or from an outfall are not properly designed, installed and maintained, corrective action shall be defined and implemented within two (2) business days, and turbidity samples shall be taken from discharges from that area of the site for each subsequent rain event that reaches or exceeds 0.5 inch during normal business hours* until the selected turbidity standard is attained, or until post-storm event inspections determine that BMPs are properly designed, installed and maintained;

(d). Where sampling pursuant to (a), (b) or (c) above is required but not possible (or not required because there was no discharge), the permittee, in accordance with Part IV.D.4.a.(6), must include a written justification in the inspection report of why sampling was not performed. Providing this justification does not relieve the permittee of any subsequent sampling obligations under (a), (b) or (c) above; and

(e). Existing construction activities, i.e., those that are occurring on or before the effective date of this permit, that have met the sampling required by (a) above shall sample in accordance with (b). Those existing construction activities that have met the sampling required by (b) above shall not be required to conduct additional sampling other than as required by (c) above.

*Note that the permittee may choose to meet the requirements of (a) and (b) above by collecting turbidity samples from any rain event that reaches or exceeds 0.5 inch and allows for sampling at any time of the day or week.

7. Non-stormwater discharges. Except for flows from fire fighting activities, sources of non-stormwater listed in Part III.A.2. of this permit that are combined with stormwater discharges associated with construction activity must be identified in the Plan. The Plan shall identify and ensure the implementation of appropriate pollution prevention measures for the non-stormwater component(s) of the discharge.

E. Reporting.

1. The applicable permittees are required to submit the sampling results to the EPD at the address shown in Part II.C. by the fifteenth day of the month following the reporting period. Reporting periods are months during which samples are taken in accordance with this permit. Sampling results shall be in a clearly legible format. Upon written notification, EPD may require the applicable permittee to submit the sampling results on a more frequent basis. Sampling and analysis of any stormwater discharge(s) or the receiving water(s) beyond the minimum frequency stated in this permit must be reported in a similar manner to the EPD. The sampling reports must be signed in accordance with Part V.G.2. Sampling reports must be submitted to EPD using the electronic submittal service provided by EPD. Sampling reports must be submitted to EPD until such time as a NOT is submitted in accordance with Part VI.

2. All sampling reports shall include the following information:

a. The rainfall amount, date, exact place and time of sampling or measurements;
b. The name(s) of the certified personnel who performed the sampling and measurements;
c. The date(s) analyses were performed;
d. The time(s) analyses were initiated;
e. The name(s) of the certified personnel who performed the analyses;
f. References and written procedures, when available, for the analytical techniques or methods used;
g. The results of such analyses, including the bench sheets, instrument readouts, computer disks or tapes, etc., used to determine these results;
h. Results which exceed 1000 NTU shall be reported as "exceeds 1000 NTU;" and
i. Certification statement that sampling was conducted as per the Plan.

3. All written correspondence required by this permit shall be submitted by return receipt certified mail (or similar service) to the appropriate District Office of the EPD according to the schedule in Appendix A of this permit. The permittee shall retain a copy of the proof of submittal at the construction site or the proof of submittal shall be readily available at a designated location from commencement of construction until such time as a NOT is submitted in accordance with Part VI.

GAR100001 PART IV.F (RETENTION OF RECORDS)

State of Georgia
Department of Natural Resources
Environmental Protection Division

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Permit No. GAR100001

F. Retention of Records.

1. The primary permittee shall retain the following records at the construction site or the records shall be readily available at a designated alternate location from commencement of construction until such time as a NOT is submitted in accordance with Part VI:

a. A copy of all Notices of Intent submitted to EPD;
b. A copy of the Erosion, Sedimentation and Pollution Control Plan required by this permit;
c. The design professional's report of the results of the inspection conducted in accordance with Part IV.A.5. of this permit;
d. A copy of all monitoring information, results, and reports required by this permit;
e. A copy of all inspection reports generated in accordance with Part IV.D.4.a. of this permit;
f. A copy of all violation summaries and violation summary reports generated in accordance with Part III.D.2. of this permit; and
g. Daily rainfall information collected in accordance with Part IV.D.4.a.(1)(c) of this permit.

2. Copies of all Notices of Intent, Notices of Termination, reports, plans, monitoring reports, monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, Erosion, Sedimentation and Pollution Control Plans, records of all data used to complete the Notice of Intent to be covered by this permit and all other records required by this permit shall be retained by the permittee who either produced or used it for a period of at least three years from the date that the NOT is submitted in accordance with Part VI of this permit. These records must be maintained at the permittee's primary place of business or at a designated alternative location once the construction activity has ceased at the permitted site. This period may be extended by request of the EPD at any time upon written notification to the permittee.

WASTE MATERIALS :

1. All waste materials will be collected and stored in a securely lidded, metal dumpster. The dumpster will meet all solid waste management regulations. All trash and construction debris from the site will be deposited in the dumpster. The dumpster will be emptied a minimum of once per week or more often if necessary and trash will be hauled as required by local regulations. No construction waste will be buried on-site.

2. All personnel will be instructed on proper procedures for waste disposal. A notice stating these practices will be posted at the jobsite and the Contractor will be responsible for seeing that these procedures are followed.

3. WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.

STREAM BUFFER ENCROACHMENT NOTES :

1. NEW STRUCTURES ON THIS PROJECT DO NOT ENCROACH IN THE 25 OR 50 FOOT STREAM BUFFER.

2. NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 OR 50 FOOT UNDISTURBED STREAM BUFFERS AS MEASURED FROM THE POINT OF WRESTED VEGETATION OR WITHIN 25 FEET OF THE COASTAL MARSHLAND BUFFER AS MEASURED FROM THE JURISDICTIONAL DETERMINATION LINE WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS.

LEVEL II CERTIFICATION NO. 2104 ISSUED 11-5-05 EXPIRES 11-15-26

REVISIONS

BOSWELL DESIGN SERVICES, INC.
OFFICE - 4700 EAST HIGHWAY 80
Unit X, Suite 4
MAILING - 103 NASSAU DRIVE
SAVANNAH, GEORGIA 31410
912 - 897 - 6932
LAHBOS@Bellsouth.net

DESIGNED ---
DRAWN MAB
CHECKED ---

DATE: NOV. 26, 2024
JOB NO. ---
SCALE: as shown

SHOPPING CENTER DEVELOPMENT SITEWORK PLANS
0 OLD RICHMOND ROAD
PORT WENTWORTH, GA 31407
FOR
NISHANT RANDERWALA
PORT WENTWORTH, GA

NOTES AND DETAILS

CONTACT A MINIMUM OF 72 HOURS PRIOR TO DIGGING
UTILITIES PROTECTION CENTER
1-800-282-7411

GEORGIA REGISTERED PROFESSIONAL No. 28372 11-26-24 ENGINEER
Mark Boswell
MARK A. BOSWELL

DRAWING NUMBER
C-21
21 OF 28 SHEETS

Dust Control on Disturbed Areas

Du



DEFINITION
Controlling surface and air movement of dust on construction sites, roads, and demolition sites.

PURPOSE
- To prevent surface and air movement of dust from exposed soil surfaces.
- To reduce the presence of airborne substances that may be harmful or injurious to human health, welfare, or safety, or to animals or plant life.

CONDITIONS
This practice is applicable to areas subject to surface and air movement of dust where on and off-site damage may occur without treatment.

METHOD AND MATERIALS

A. Temporary Methods

Mulches. See standard **Ds1 - Disturbed Area Stabilization (With Mulching Only)**. Synthetic resins may be used instead of asphalt to bind mulch material. Refer to specification **Tac - Tackifiers**. Resins should be used according to manufacturer's recommendations.

Vegetative Cover. See specification **Ds2 - Disturbed Area Stabilization (With Temporary Seeding)**.

Spray-on Adhesives. These are used on mineral soils (not effective on muck soils). Keep traffic off these areas. Refer to specification **Tac - Tackifiers**.

Tillage. This practice is designed to roughen and bring clods to the surface. It is an emergency measure that should be used before wind erosion starts. Begin plowing on windward side of site. Chisel-type plows spaced about 12 inches apart, spring-toothed harrows, and similar plows are examples of equipment that may produce the desired effect.

Irrigation. This is generally done as an emergency treatment. Site is sprinkled with water until the surface is wet. Repeat as needed.

Barriers. Solid board fences, snowfences, burlap fences, crate walls, bales of hay and similar material can be used to control air currents and soil blowing. Barriers placed at right angles to prevailing currents at intervals of about 15 times their height are effective in controlling wind erosion.

Calcium Chloride. Apply at rate that will keep surface moist. May need retreatment.

B. Permanent Methods

Permanent Vegetation. See specification **Ds3 -Disturbed Area Stabilization (With Permanent Vegetation)**. Existing trees and large shrubs may afford valuable protection if left in place.

Topsoiling. This entails covering the surface with less erosive soil material. See specification **Tp - Topsoiling**.

Stone. Cover surface with crushed stone or coarse gravel. See specification **Cr-Construction Road Stabilization**.

Check Dam

Cd



DEFINITION
A temporary grade control structure, or dam constructed across a swale, drainage ditch, or area of concentrated flow.

PURPOSE
To minimize the erosion rate by reducing the velocity of the storm water in areas of concentrated flow.

CONDITIONS
This practice is applicable for use in small open channels and is not to be used in a live stream. Specific applications include:

1. Temporary or permanent swales or ditches in need of protection during establishment of grass linings.
2. Temporary or permanent swales or ditches that, due to their short length of service or other reasons, cannot receive a permanent non-erodible lining for an extended period of time.
3. Other locations where small localized erosion and resulting sedimentation prob lems exist.

Drainage Area
For stone check dams, the drainage area shall not exceed two acres. For straw-bale check dams and compost filter socks, the drainage area shall not exceed one acre.

Side Slopes
Side slopes shall be 2:1 or flatter.

Spacing
Two or more check dams in a series shall be used for drainage areas greater than one (1) acre. Maximum spacing between dams should be such that the toe of the upstream dam is at the same elevation as the top of the downstream dam. (See Figure 6-12.1)

Geotextiles
A geotextile should be used as a separator between the graded stone and the soil base and abutments. The geotextile will prevent the migration of soil particles from the subgrade into the graded stone. The geotextile shall be selected/ specified in accordance with AASHTO M288-06 Section 7.3, *Separation Requirements*, Table 3. Geotextiles shall be "set" into the subgrade soils. The geotextile shall be placed immediately adjacent to the subgrade without any voids and extend five feet beyond the downstream toe of the dam to prevent scour.

CONSTRUCTION SPECIFICATIONS

Stone Check Dams Cd-S

Stone check dams should be constructed of graded size 2-10 inch stone. Mechanical or hand placement shall be required to insure complete coverage of the entire width of the ditch or swale and that the center of the dam is lower than the edges. **The center of the check dam must be at least 9 inches lower than the outer edges.** (See Figure 6-12.2)

Straw-bale Check Dams Cd-Hb

Staked and embedded straw-bales may be used as temporary check dams in concentrated flow areas while vegetation is becoming established. They shall not be used where the drainage area exceeds one acre. Straw-bales should be installed per Figure 6-12.3.

DESIGN CRITERIA
Check dams should be designed using 2.0 cfs. For any flows exceeding 2.0 cfs, check dams may be used in conjunction with other BMPs in the channel. Dam height should be 24 inches maximum measured to the center of the check dam.

Installation
Bales should be bound with wire or nylon string. Twine bound bales are less durable. The bales should be placed in rows with bale ends tightly abutting the adjacent bales.

Downstream Row (Refer to Figure 6-12.3)
Dig a trench across the small channel, wide enough and deep enough so that the top of the row of bales placed on their long, wide side is level with the ground. The tops of bales across the center of the channel should all be level and set at the same elevation. Place the bales in position and stake them according to the instructions below.

Upstream Row
Dig another trench across the small channel, upstream and immediately adjacent to the first row of bales. The trench should be wide enough to accommodate a row of bales set vertically on their long edge. The trench should be deep enough so that at least 6 inches of each bale is below ground starting with the bale in the channel bottom. The trench should be as level as possible so that the tops of the bales across the center of the channel are level and water can flow evenly across them. Continue this trench up the side slopes of the small channel to a point where the unburied bottom line of the highest bale (Point "C", Figure 6-12.3) is higher than the top of the bales that are in the center of the channel (Point "D", Figure 6-12.3).

Anchorage
Drive standard 2 x 2 stakes or #4 rebar through the bales and into the ground 1 1/2 to 2 feet for anchorage. The first stake in each bale should be driven toward a previously laid bale to force the bales together (See Figure 6-12.3).

Reference: Colorado NRCS Straw Bale Check Dam

Compost Filter Sock Cd-Fs

The filter sock should be staked in the center. If the compost fi lter sock is to be left as a permanent filter or part of the natural landscape, it may be seeded at time of installation for establishment of permanent vegetation.

Compost filter media used for compost filter sock filter material shall be weed free and derived from a well-decomposed source of organic matter.

The compost shall be produced using an aerobic composting process meeting CFR 503 regulations including time and temperature data.

The compost shall be free of any refuse, contaminants or other materials toxic to plant growth. Non-composted products will not be accepted.

Test methods for the items below should follow US Composting Council Test Methods for the Examination of Composting and Compost guidelines for laboratory procedures:

A. pH – 5.0-8.0 in accordance with TMECC 04.11-A, "Electrometric pH Determinations for Compost".

B. Particle size – 99% passing a 2-inch (50 mm) sieve and a maximum of 40% passing a 3/8-inch (~ 9.5 mm) sieve, in accordance with TMECC 02.02-B, "Sample Sieving for Aggregate Size Classification". (Note - In the field, product commonly is between ½ and 2 inches (12.5 and 50 mm) particle size).

C. Moisture content of less than 60% in accordance with standardized test methods for moisture determination.

D. Material shall be relatively free (<1% by dry weight) of inert or foreign manmade materials.

E. Sock containment system for compost filter media shall be a photodegradable or biodegradable knitted mesh material and should have 1/8 to 3/8 inch (3.2 to 9.5 mm) openings.

MAINTENANCE
Periodic inspection and required maintenance must be provided. Sediment shall be removed when it reaches a depth of one-half the original dam height or before. If the area is to be mowed, check dams shall be removed once final stabilization has occurred. Otherwise check dams may remain in place permanently. After removal, the area beneath the dam shall be seeded and mulched immediately.

(b). The downstream sample for each receiving water(s) must be taken downstream of the confluence of the last stormwater discharge from the permitted activity (i.e., the discharge farthest downstream at the site) but upstream of any other stormwater discharge not associated with the permitted activity. Where appropriate, several downstream samples from across the receiving water(s) may need to be taken and the arithmetic average of the turbidity of these samples used for the downstream turbidity value.

(c). Ideally the samples should be taken from the horizontal and vertical center of the receiving water(s) or the stormwater outfall channel(s).

(d). Care should be taken to avoid stirring the bottom sediments in the receiving water(s) or in the outfall stormwater channel.

(e). The sampling container should be held so that the opening faces upstream.

(f). The samples should be kept free from floating debris.

(g). Permittees do not have to sample sheet flow that flows onto undisturbed natural areas or areas stabilized by the project. For purposes of this section, stabilized shall mean, for unpaved areas and areas not covered by permanent structures and areas located outside the waste disposal limits of a landfill cell that has been certified by EPD for waste disposal, 100% of the soil surface is uniformly covered in permanent vegetation with a density of 70% or greater, or landscaped according to the Plan (uniformly covered with landscaping materials in planned landscaped areas), or equivalent permanent stabilization measures as defined in the Manual (excluding a crop of annual vegetation and a seeding of target crop perennials appropriate for the region).

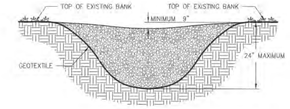
(b). All sampling pursuant to this permit must be done in such a way (including generally accepted sampling methods, locations, timing, and frequency) as to accurately reflect whether stormwater runoff from the construction site is in compliance with the standard set forth in Parts III.D.3. or III.D.4., whichever is applicable.

d. *Sampling Frequency.*

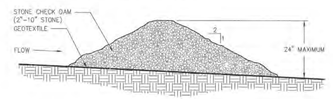
(1). The primary permittee must sample in accordance with the Plan at least once for each rainfall event described below. For a qualifying event, the permittee shall sample at the beginning of any stormwater discharge to a monitored receiving water and/or from a monitored outfall location within in forty-five (45) minutes or as soon as possible.

STONE CHECK DAM

CROSS SECTION



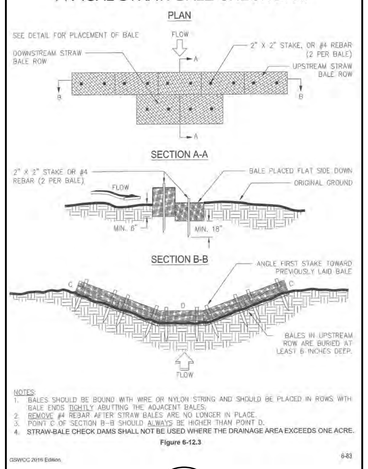
PROFILE VIEW



NOTES:
1. CHECK DAMS ARE TO BE USED ONLY IN SMALL OPEN CHANNELS (THEY ARE NOT TO BE USED IN LIVE STREAMS).
2. THE DRAINAGE AREA FOR STONE CHECK DAMS SHALL NOT EXCEED TWO ACRES.
3. THE CENTER OF THE CHECK DAM MUST BE AT LEAST 9 INCHES LOWER THAN THE OUTER EDGES.
4. THE DAM HEIGHT SHOULD BE A MAXIMUM OF 2 FEET FROM CENTER TO RIM EDGE.
5. THE SIDE SLOPES OF THE CHECK DAM SHALL NOT EXCEED A 2:1 SLOPE.
6. GEOTEXTILE SHALL BE USED TO PREVENT THE MITIGATION OF SUBGRADE SOIL PARTICLES INTO THE STONES (REFER TO AASHTO M288-96, SECTION 7.3, TABLE 3).

Figure 6-12.2

TYPICAL STRAW BALE CHECK DAM



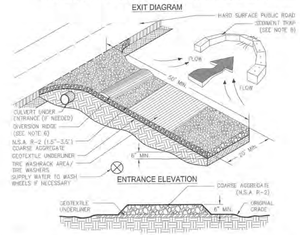
NOTES:
1. BALES SHOULD BE BOUND WITH WIRE OR NYLON STRING AND SHOULD BE PLACED IN ROWS WITH BALE ENDS TIGHTLY ABUTTING THE ADJACENT BALES.
2. REMOVE #4 REBAR AFTER STRAW BALES ARE NO LONGER IN PLACE.
3. POINT C OF SECTION B-B SHOULD ALWAYS BE HIGHER THAN POINT D.
4. STRAW-BALE CHECK DAMS SHALL NOT BE USED WHERE THE DRAINAGE AREA EXCEEDS ONE ACRE.

Figure 6-12.3

Cd-Hb

MAINTENANCE
The exit shall be maintained in a condition that will prevent tracking or flow of mud onto public rights-of-way. This may require periodic top dressing with 1.5-3.5 inch stone, as conditions demand, and repair and/or cleanout of any structures to trap sediment. All materials spilled, dropped, washed, or tracked from vehicles or site onto roadways or into storm drains must be removed immediately.

CRUSHED STONE CONSTRUCTION EXIT



NOTES:
1. AVOID LOCATING ON STEEP SLOPES OR AT CURVES ON PUBLIC ROADS.
2. REMOVE ALL VEGETATION AND OTHER UNSUITABLE MATERIAL FROM THE FOUNDATION AREA. GRADE, AND CROWN FOR POSITIVE DRAINAGE.
3. AGGREGATE SIZE SHALL BE IN ACCORDANCE WITH NATIONAL STONE ASSOCIATION R-2 (1.5"- 3.5" STONE).
4. GRADED STONE SHALL BE 6" MINIMUM THICKNESS OF 6".
5. THE WIDTH SHALL BE EQUAL TO FULL WIDTH AT ALL POINTS OF VEHICULAR EGRESS, BUT NO LESS THAN 20'.
6. A DIVERSION RIDGE SHOULD BE CONSTRUCTED WHEN GRADE TOWARD PAVED AREA IS GREATER THAN 2%.
7. INSTALL PIPE UNDER THE ENTRANCE IF NEEDED TO MAINTAIN DRAINAGE DITCHES.
8. WHEN WASHING IS REQUIRED, IT SHOULD BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN (DOVER ALL SURFACE RUNOFF AND DRAINAGE FROM THE ENTRANCE TO A SEDIMENT CONTROL DEVICE.
9. WASHRACKS AND/OR TIRE WASHERS MAY BE REQUIRED DEPENDING ON SCALE AND CIRCUMSTANCE. IF NECESSARY, WASHRACK DESIGN MAY CONSIST OF ANY MATERIAL SUITABLE FOR TRUCK TRAFFIC THAT REMOVE MUD AND DIRT.
10. MAINTAIN AREA IN A WAY THAT PREVENTS TRACKING AND/OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.

Figure 6-14.1

Co

Temporary Sediment Trap

Sd4



DEFINITION
A small temporary pond that drains a disturbed area so that sediment can settle out. The principle feature distinguishing a temporary sediment trap from a temporary sediment basin is the lack of a pipe or riser.

PURPOSE
To collect and store sediment from uphill sites cleared and or graded during construction. Intended for use on small tributary areas with no unusual drainage features. Effective against coarse sediment, but not against silt or clay particles that remain suspended.

CONDITIONS
Temporary sediment traps are constructed early in the construction process at locations that will require minimal clearing and grading. Natural draws or swells are favorable locations to build the traps. They should be easily accessible for frequent maintenance and inspections. Temporary sediment traps shall never be placed in live streams.

DESIGN CRITERIA
Design and construction shall comply with laws, ordinances, rules and regulations on the local, state and federal level.

The total drainage area of a temporary sediment trap is up to 5 acres, depending on type of construction.

The height of a temporary sediment trap embankment shall not exceed 5.5 feet as measured from the downstream toe of slope to the top of the berm. Top width of an embankment shall be at least as wide as the height of the sediment trap embankment, with a minimum width of 3 feet.

Maximum pond depth of a sediment trap is 4 feet as measured from the bottom of the trap to the invert of the emergency spillway. Slopes shall not exceed 2:1 (H:V) for excavated areas and for compacted embankments. Side slopes should be (2:1) or flatter allowing people and equipment to safely negotiate slopes or to enter the sediment trap.

The length to width ratio must be greater than (2:1) (L:W) for the principal flowpaths in order to maximize residence time of stormwater within the sediment trap. Baffles may be required to prevent short-circuiting of the flow.

A typical baffle design uses 4'x8' sheets of exterior grade plywood 1/2 inch thick, mounted on 4"x4" hardwood posts.

Volume
Minimum volume of a temporary sediment trap shall be 67 cubic yards per acre for the total drainage area. The volume shall be measured at an elevation equivalent to the spillway invert.

Volume of a temporary sediment trap in heavily disturbed areas should be 134 cubic yards per acre for the total drainage area. This includes an upper area with a minimum of 67 cubic yards per acre drained, which is dewatered using one of the outlet design methods provided, and a lower wet zone for sediment storage and settling.

The volume should be calculated from existing and proposed contours, or by measured cross sections. An approximate method for calculating the volume of traps using a natural draw is:

V = 0.4 x A x D
V = Sediment storage volume (below invert of emergency spillway)
A = Surface area (at level of emergency spillway)
D = Maximum depth (from emergency spillway invert)

The cleanout volume for a temporary sediment trap is 1/3 of the total storage volume. Cleanout volume shall be calculated and marked with a stake at the outlet of the trap.

CONSTRUCTION SPECIFICATIONS
The basic design guidlines are applicable to the type of temporary sediment trap constructed. The main differences are with regards to the type of outlet structures. The following types of construction are acceptable under the designated conditions:

Overflow (Sd4-A)
An overflow temporary sediment trap is used on sites with small areas less than 1 acre, typically with gentle slopes (1 or 2 percent) and without major grading operations. The maximum life span of an overflow trap is 6 months. If water enters the trap with low flow velocities, the entire amount of water will be slowly displaced and leave the other end of the sediment trap. Silt fence, straw bale barriers or grass filter strips are used to "polish" the overflow water as it leaves the sediment trap. See Figure 6-30.1

Combination Straw Bale and Silt Fence Outlet (Sd4-B)
The combination outlet uses straw bales and silt fence to detain the sediment trap. Proper installation and staking of the straw bales, and wire backing of the silt fence are required for the material to resist 1 foot or more of ponded water. The combination straw bale and silt fence outlet is limited to 1 acre total drainage area, and has a life span of less than 1 year. This type of outlet requires frequent maintenance and inspections to ensure the released stormwater is free from sediment. See Figure 6-30.2

Rock Outlet (Sd4-C)
The rock outlet relies on filtering through layers of aggregate, rock or riprap material to dewater the sediment trap. It is the sturdiest of the sediment trap designs and generally requires less maintenance. It can be used for drainage area up to 5 acres and has a life span of 1 year. See Figure 6-30.3

Emergency Spillway
The emergency overflow outlet of a temporary sediment trap must be stabilized with rock, geotextile, vegetation, or another suitable material that is resistant to erosion. It must be installed to safely convey stormwater runoff for the 10-year storm event.

REFERENCE:
City of Knoxville BMP Manual Best Management Practices, Knoxville, TN, May 2003

TEMPORARY SEDIMENT TRAP

COURTESY OF CITY OF KNOXVILLE BMP EROSION AND SEDIMENT

ROCK OUTLET

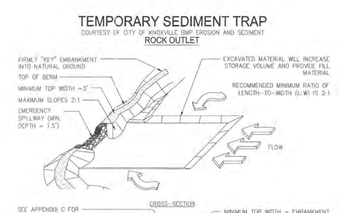


Figure 6-30.3

Sd4-C

STREAM BUFFER ENCROACHMENT NOTES :

1. NEW STRUCTURES ON THIS PROJECT DO NOT ENCROACH IN THE 25 OR 50 FOOT STREAM BUFFER.

2. NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 OR 50 FOOT UNDISTURBED STREAM BUFFERS AS MEASURED FROM THE POINT OF WRESTED VEGETATION OR WITHIN 25 FEET OF THE COASTAL MARSHLAND BUFFER AS MEASURED FROM THE JURISDICTIONAL DETERMINATION LINE WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS.

DESCRIPTION OF STORM WATER POLLUTION DISCHARGE PREVENTION PRACTICES

1. THE FOLLOWING IS A DESCRIPTION OF THE PRACTICES TO BE USED BUT NOT LIMITED TO :
   - A. CONSTRUCTION EXIT
   - B. SILT FENCING
   - C. TEMPORY SEDIMENT BASINS
   - D. HAY BALE CHECK DAMS
   - E. STONE CHECK DAMS
   - F. STORM OUTLET PROTECTION
   - G. GRASSING
   - ~~H. DETENTION POND~~
   - ~~I. SKIMMER~~
   - J. DUST CONTROL
   - K. CONCRETE WASHDOWN PIT

LEVEL II CERTIFICATION NO. 2104 ISSUED 11-5-05 EXPIRES 11-15-26

SPECIAL CONSTRUCTION NOTE:

IF THE CONTRACTOR KNOWS OR CAN REASONABLY BE EXPECTED TO HAVE KNOWN OF AN ERROR, DISCREPANCY OR CONFLICT IN THE PLANS, SPECIFICATIONS OR CONSTRUCTION STAKING AND FAILS TO REPORT THE PROBLEM PRIOR TO CONSTRUCTION, HE SHALL NOT BE ENTITLED TO COMPENSATION FOR ANY WORK OR EXPENSE INCURRED BY HIM FOR WORK REQUIRED TO BE RE-CONSTRUCTED BECAUSE OF SAID ERROR, DISCREPANCY OR CONFLICT.

BOSWELL DESIGN SERVICES, INC.
OFFICE : 4700 EAST HIGHWAY 80
Unit K, Suite 105
MAILING : 105 NASSAU DRIVE
SAVANNAH, GEORGIA 31410
912 - 897 - 6932
LAHBOS@Bellsouth.net

REVISIONS

DESIGNED	DRAWN	CHECKED
---	MAB	---

DATE : NOV. 26, 2024
JOB NO. ---
SCALE: as shown

SHOPPING CENTER DEVELOPMENT SITEWORK PLANS
0 OLD RICHMOND ROAD
PORT WENTWORTH, GA 31407
FOR
NISHANT RANDERWALA
PORT WENTWORTH, GA

NOTES AND DETAILS

CONTACT A MINIMUM OF 72 HOURS PRIOR TO DIGGING
UTILITIES PROTECTION CENTER
1-800-282-7411

GEORGIA REGISTERED
Mark Boswell
No. 28372
PROFESSIONAL
11-26-24
ENGINEER
MARK A. BOSWELL

DRAWING NUMBER
C-22
22 OF 28 SHEETS

Inlet Sediment Trap Sd2



DEFINITION
A temporary protective device formed at or around an inlet to a storm drain to trap sediment.

PURPOSE
To prevent sediment from entering a storm drainage systems prior to permanent stabilization of the disturbed area draining to the inlet.

CONDITIONS
All storm drain drop inlets that receive runoff from disturbed areas.

DESIGN CRITERIA
Through testing there are two different categories (high retention and high flow) supported. In areas where BMPs are being used on paved surfaces, or safety is a concern, the potentially negative effects of ponding should be taken into account. In such cases, a high flow BMP is preferred.

On unpaved areas where ponding will not cause a safety hazard, high retention shall be taken into account. If high retention is not used in this situation a rationale shall be given on the plan and an unpaved application should apply.

Sediment traps must be self-draining unless they are otherwise protected in an approved fashion that will not present a safety hazard. The drainage area entering the inlet sediment trap shall be no greater than one acre.

If runoff may bypass the protected inlet, a temporary dike should be constructed on the down slope side of the structure. Also, a stone filter ring may be used on the up slope side of the inlet to slow runoff and filter larger soil particles. Refer to **Fr-Stone Filter Ring**.

CONSTRUCTION SPECIFICATIONS
Excavated Inlet Sediment Trap
An excavation may be created around the inlet sediment trap to provide additional sediment storage. The trap shall be sized to provide a minimum storage capacity calculated at the rate of 67 cubic yards per acre of drainage area. A minimum depth of 1.5 feet for sediment storage should be provided. Side slopes shall not be steeper than 2:1.

Sediment traps may be constructed on natural ground surface, on an excavated surface, or on machine compacted fill, provided they have a non-erodible outlet.

Filter Fabric with Supporting Frame Sd2 -F

This method of inlet protection is applicable where the inlet drains a relatively flat area (slope no greater than 5%) and shall not apply to inlets receiving concentrated flows, such as in street or highway medians. As shown in Figure 6-28.1, Type S silt fence supported by steel posts should be used. The stakes shall be spaced evenly around the perimeter of the inlet a maximum of 3 feet apart, and securely driven into the ground, approximately 18 inches deep. The fabric shall be 36 inches tall and entrenched 12 inches and backfilled with crushed stone or compacted soil. Fabric and wire shall be securely fastened to the posts, and fabric ends must be overlapped a minimum of 18 inches or wrapped together around a post to provide a continuous fabric barrier around the inlet.

Baffle Box Sd2 -B

For inlets receiving runoff with a higher volume or velocity, a baffle box inlet sediment trap should be used. As shown in Figure 6-28.2, the baffle box shall be constructed of 2" x 4" boards spaced a maximum of 1 inch apart or of plywood with weep holes 2 inches in diameter. The weep holes shall be placed approximately 6 inches on center vertically and horizontally. Gravel shall be placed outside the box, all around the inlet, to a depth of 2 to 4 inches. The entire box is wrapped

in Type C filter fabric that shall be entrenched 12 inches and backfilled.

Block and Gravel Drop Inlet Protection Sd2 -Bg

This method of inlet protection is applicable where heavy flows are expected and where an overflow capacity is necessary to prevent excessive ponding around the structure. As shown in Figure 6-28.3, one block is placed on each side of the structure on its side in the bottom row to allow pool drainage. The foundation should be excavated at least 2 inches below the crest of the storm drain. The bottom row of blocks is placed against the edge of the storm drain for lateral support and to avoid washouts when overflow occurs. If needed, lateral support may be given to subsequent rows by placing 2" x 4" wood studs through block openings. Hardware cloth or comparable wire mesh with 1/2 inch openings shall be fitted over all block openings to hold gravel in place. Clean gravel should be placed 2 inches below the top of the block on a 2:1 slope or flatter and smoothed to an even grade. DOT #57 washed stone is recommended.

Gravel drop Inlet Protection Sd2-G

This method of inlet protection is applicable where heavy concentrated flows are expected. As shown in Figure 6-28.4, stone and gravel are used to trap sediment. The slope toward the inlet shall be no steeper than 2:1. A minimum 1 foot wide level stone area shall be left between the structure and around the inlet to prevent gravel from entering the inlet. On the slope toward the inlet, stone 3 inches in diameter and larger should be used. On the slope away from the inlet, 1/2 to 3/4 inch gravel (#57 washed stone) should be used at a minimum thickness of 1 foot.

Sod Inlet Protection Sd2-S

This method of inlet protection is applicable only at the time of permanent seeding, to protect the inlet from sediment and mulch material until permanent vegetation has become established. As shown in Figure 6-28.5, the sod shall be placed to form a turf mat covering the soil for

a distance of 4 feet from each side of the inlet structure. Sod strips shall be staggered so that adjacent strip ends are not aligned.

Curb Inlet Protection Sd2-P

Once pavement has been installed, a curb inlet filter shall be installed on inlets receiving runoff from disturbed areas. This method of inlet protection shall be removed if a safety hazard is created.

One method of curb inlet protection uses "pigs-in-a-blanket"- 8-inch concrete blocks wrapped in filter fabric. See Figure 6-28.6. Another method uses gravel bags constructed by wrapping DOT #57 stone with filter fabric, wire, plastic mesh, or equivalent material.

A gap of approximately 4 inches shall be left between the inlet filter and the inlet to allow for overflow and prevent hazardous ponding in the roadway. Proper installation and maintenance are crucial due to possible ponding in the roadway, resulting in a hazardous condition. Several other methods are available to prevent the entry of sediment into storm drain inlets.

Figure 6-28.7 shows one of these alternative methods.

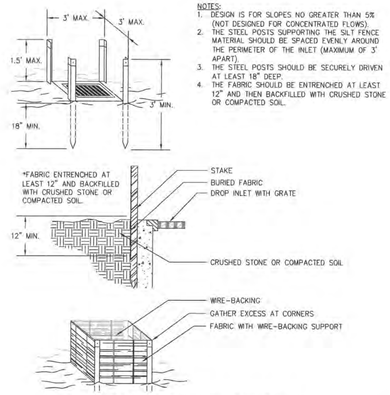
MAINTENANCE
The trap shall be inspected daily and after each rain, and repairs made as needed. Sediment shall be removed when the sediment has accumulated to one-half the height of the trap. Sediment shall be removed from curb inlet protection immediately. For excavated inlet sediment traps, sediment shall be removed when one-half of the sediment storage capacity has been lost to sediment accumulation. Sod inlet protection shall be maintained as specified in **Ds4 - Disturbed Area Stabilization (With Sodding).**

Sediment shall not be washed into the inlet. It shall be removed from the sediment trap, disposed of and stabilized so that it will not enter the inlet again.

When the contributing drainage area has been permanently stabilized, all materials and any sediment shall be removed, and either salvaged or disposed of properly. The disturbed area shall be brought to proper grade, then smoothed and compacted. Appropriately stabilize all disturbed areas around the inlet.

FABRIC AND SUPPORTING FRAME FOR INLET PROTECTION

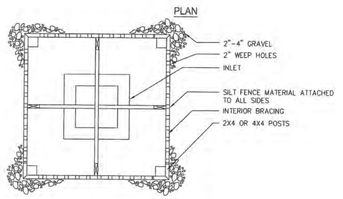
STEEL FRAME AND TYPE C SILT FENCE INSTALLATION



NOTES:
1. DESIGN IS FOR SLOPES NO GREATER THAN 5% (NOT DESIGNED FOR CONCENTRATED FLOWS).
2. THE STEEL POSTS SUPPORTING THE SILT FENCE MATERIAL SHOULD BE SPACED EVENLY AROUND THE PERIMETER OF THE INLET (MAXIMUM OF 3' APART).
3. THE STEEL POSTS SHOULD BE SECURELY DRIVEN AT LEAST 18" DEEP.
4. THE FABRIC SHOULD BE ENTRENCHED AT LEAST 12" AND THEN BACKFILLED WITH CRUSHED STONE OR COMPACTED SOIL.

Figure 6-28.1 - Fabric and Supporting Frame For Inlet Projection

PLAN



SIDE

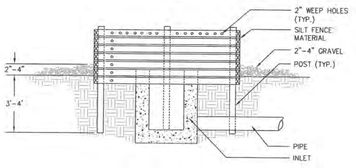
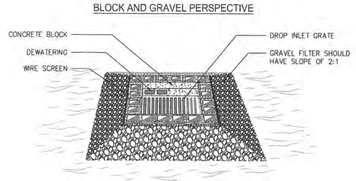
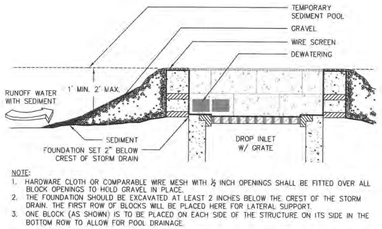


Figure 6-28.2 Baffle Box

BLOCK AND GRAVEL PERSPECTIVE



BLOCK AND GRAVEL SECTION



NOTE:
1. HARDWARE CLOTH OR COMPARABLE WIRE MESH WITH ½ INCH OPENINGS SHALL BE FITTED OVER ALL BLOCK OPENINGS TO HOLD GRAVEL IN PLACE.
2. THE FOUNDATION SHOULD BE EXCAVATED AT LEAST 2 INCHES BELOW THE CREST OF THE STORM DRAIN. THE FIRST ROW OF BLOCKS WILL BE PLACED HERE FOR LATERAL SUPPORT.
3. ONE BLOCK (AS SHOWN) IS TO BE PLACED ON EACH SIDE OF THE STRUCTURE ON ITS SIDE IN THE BOTTOM ROW TO ALLOW FOR POOL DRAINAGE.

Figure 6-28.3 Block and Gravel Drop Inlet Protections



Figure 6-28.4 Gravel Drop Inlet Protection

SOD STRIPS PROTECT INLET AREA FROM EROSION
(SOURCE: VA SWCC)

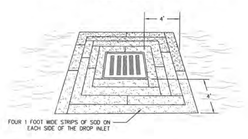
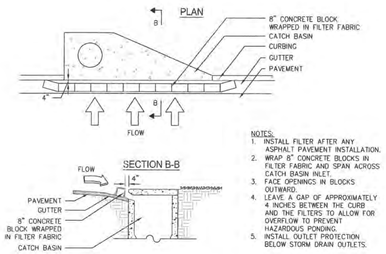


Figure 6-28.5 Sod Inlet Protection

CURB INLET FILTER "PIGS IN BLANKET"



NOTES:
1. INSTALL FILTER AFTER ANY ASPHALT PAVEMENT INSTALLATION.
2. WRAP 8" CONCRETE BLOCKS IN FILTER FABRIC AND SPAN ACROSS CATCH BASIN INLET.
3. FACE OPENINGS IN BLOCKS OUTWARD.
4. LEAVE A GAP OF APPROXIMATELY 4 INCHES BETWEEN THE CURB AND THE FILTERS TO ALLOW FOR OVERFLOW TO PREVENT HAZARDOUS PONDING.
5. INSTALL OUTLET PROTECTION BELOW STORM DRAIN OUTLETS.

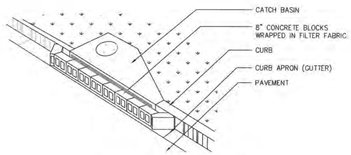


Figure 6-28.6 Curb Inlet Filter "Pigs in Blanket"

TO BE SHOWN ON THE EROSION AND SEDIMENT CONTROL PLAN

If the **EXCAVATED INLET SEDIMENT TRAP** is used, show the following information:

1. **Drainage area** = _____ ac
2. Required sediment storage = 67 cy/ac * drainage area
   Required sediment storage = 67 cy/ac * _____ ac
   Required sediment storage = _____ cy = _____ cf
3. Assume excavation **depth** (minimum of 1.5 ft.) = _____ ft
4. Assume **slope of sides** (shall not be steeper than 2:1) = ___ :1
5. Determine required surface area
   SA_{ss} = Required sediment storage / excavation depth
   SA_{ss} = _____ cy / _____ ft
   SA_{ss} = _____ sf
6. Assume shape of excavation and determine dimensions.
   (A rectangular shape with 2:1 length to width ratio is recommended.)
   Shape: _____
   Dimensions: l = _____ ft w = _____ ft diameter (*if applicable*) = _____ ft

Provide a detail showing the depth, length and width, or diameter (*if applicable*), and side slopes of the excavation.



Figure 6-28.7 Equivalent Inlet Sediment Trap

DESCRIPTION OF STORM WATER POLLUTION DISCHARGE PREVENTION PRACTICES

1. THE FOLLOWING IS A DESCRIPTION OF THE PRACTICES TO BE USED BUT NOT LIMITED TO :
   - A. CONSTRUCTION EXIT
   - B. SILT FENCING
   - C. TEMPORY SEDIMENT BASINS
   - D. HAY BALE CHECK DAMS
   - E. STONE CHECK DAMS
   - F. STORM OUTLET PROTECTION
   - G. GRASSING
   - ~~H. RETENTION POND~~
   - ~~I. SKIMMER~~
   - J. DUST CONTROL
   - K. CONCRETE WASHDOWN PIT

WASTE DISPOSAL :

1. Locate waste collection areas away from streets, gutters, watercourses and storm drains. Waste collection areas, such as dumpsters, are often best located near construction site entrances to minimize traffic on disturbed soils. The plan should include secondary containment around liquid waste collection areas to further minimize the likelihood of contaminated discharges. Solid materials, including building materials, shall not be discharged to waters of the State, except as authorized by a Section 404 permit.

STORMWATER SAMPLING SAMPLE ANALYSIS

1. Storm water samples are to be analyzed in accordance with methodology and test procedures established by 40 CFR Part 136 and the guidance document titled "NPDES Storm Water Sampling Guidance Document, EPA 833-B-92-001."

2. Storm water is to be for nephelometric turbidity units (NTU) at the outfall location. A discharge of storm water runoff from disturbed areas where best management practices have not been properly designed, installed, and maintained shall constitute a separate violation for each day on which such conditions results in the turbidity of the discharge exceeding 75, the value that was selected from Appendix B in Permit No. GAR 100001. The NTU is based upon the disturbed acreage of 0.97 acres for the project site, the surface water drainage area of < 5.0 square miles, and receiving water which supports warm water fisheries.

27.
BUILDING MATERIALS COVER NOTES :

1. Building materials and building products which are stored outside on site are to be covered as soon as they arrive on site if not used the same day they arrive on site. Cover shall include but not be limited to tarps, heavy plastic or any other impervious materal which will not allow run-off from the materials from rain events.

2. Building materials and building products may be stored inside building if building has been "dried in" in lieu of storing and covering outside.

POLUTANTS POTENTIALLY FOUND ON SITE (DUE TO CONSTRUCTION ACTIVITIES)

1. Gasoline
2. Diesel fuel
3. Motor Oil
4. Hydraulic Fluid
5. Paints
6. Solvents
7. Concrete

LEVEL II CERTIFICATION NO. 2104 ISSUED 11-5-05 EXPIRES 11-15-26

26.
INSTALLED MEASURES TO CONTROL POLLUTANTS AFTER CONSTRUCTION COMPLETION :

1. ~~The storm water detention pond shall remain in place, stabilized and functional at all times after construction has been completed.~~

2. The storm water pipes and outfall swales shall remian in place, stabilized and funtional at all times after construction has been completed.

3. Rip-rap used at outlets which are used for velocity dissipation are to remain in place and funtional at all times. These measures are to provide non-erosive flow so that the natural physical and biological characteristics and funtions of the water course are maintained and protected.

4. Final stabilization shall remain in place (permanent vegetation, sod, vegetated swales,etc.).

5. Installation of these devices may be subject to section 404 of the Federal Clean Water Act.

6. The primary permittee is only responsible for the installation and maintenance of storm water management devices prior to final stabilization of the site and not the operation and maintenance of such structures after construction activities have been completed.

REVISIONS

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DESIGNED: ---
DRAWN: MAB
CHECKED: ---
DATE: NOV. 26, 2024
JOB NO. ---
SCALE: as shown

SHOPPING CENTER DEVELOPMENT SITEWORK PLANS
0 OLD RICHMOND ROAD
PORT WENTWORTH, GA 31407
FOR
NISHANT RANDERWALA
PORT WENTWORTH, GA

NOTES AND DETAILS

CONTACT A MINIMUM OF 72 HOURS PRIOR TO DIGGING
GEORGIA UTILITIES PROTECTION CENTER
UTILITIES PROTECTION CENTER
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DRAWING NUMBER
C-23
23 OF 28 SHEETS

Disturbed Area Stabilization (With Mulching Only) Ds1



DEFINITION
Applying plant residues or other suitable materials, produced on the site if possible, to the soil surface.

PURPOSE
- To reduce runoff and erosion
- To conserve moisture
- To prevent surface compaction or crusting
- To control undesirable vegetation
- To modify soil temperature
- To increase biological activity in the soil

REQUIREMENT FOR REGULATORY COMPLIANCE
Mulch or temporary grassing shall be applied to all exposed areas within 14 days of disturbance. Mulch can be used as a singular erosion control device for up to six months, but it shall be applied at the appropriate depth, depending on the material used, anchored and have a continuous 90% cover or greater of the soil surface.

Maintenance shall be required to maintain appropriate depth and 90% cover. Temporary vegetation may be employed instead of mulch if the area will remain undisturbed for less than six months.

If any area will remain undisturbed for greater than six months, permanent vegetative techniques shall be employed. Refer to **Ds2 -Disturbed Area Stabilization (With Temporary Seeding), Ds3 - Disturbed Area Stabilization (With Permanent Seeding), and Ds4 - Disturbed Area Stabilization (With Sodding).**

SPECIFICATIONS
Mulching Without Seeding
This standard applies to graded or cleared areas where seedings may not have a suitable growing season to produce an erosion retardant cover, but can be stabilized with a mulch cover.

Site Preparation
1. Grade to permit the use of equipment for applying and anchoring mulch.
2. Install needed erosion control measures as required such as dikes, diversions, berms, terraces and sediment barriers.
3. Loosen compact soil to a minimum depth of 3 inches.

Mulching Materials
Select one of the following materials and apply at the depth indicated:
1. Dry straw or hay shall be applied at a depth of 2 to 4 inches providing complete soil coverage. One advantage of this material is easy application.
2. Wood waste (chips, sawdust or bark) shall be applied at a depth of 2 to 3 inches. Organic material from the clearing stage of development should remain on site, be chipped, and applied as mulch. This method of mulching can greatly reduce erosion control costs.
3. Polyethylene film shall be secured over banks or stockpiled soil material for temporary protection. This material can be salvaged and re-used.

Applying Mulch
When mulch is used without seeding, mulch shall be applied to provide full coverage of the exposed area.
1. Dry straw or hay mulch and wood chips shall be applied uniformly by hand or by mechanical equipment.

2. If the area will eventually be covered with perennial vegetation, 20-30 pounds of nitrogen per acre in addition to the normal amount shall be applied to offset the uptake of nitrogen caused by the decomposition of the organic mulches.
3. Apply polyethylene film on exposed areas.

Anchoring Mulch
1. Straw or hay mulch can be pressed into the soil with a disk harrow with the disk set straight or with a special "packer disk." Disks may be smooth or serrated and should be 20 inches or more in diameter and 8 to 12 inches apart. The edges of the disk should be dull enough not to cut the mulch but to press it into the soil leaving much of it in an erect position. Straw or hay mulch shall be anchored immediately after application.

   Straw or hay mulch spread with special blower-type equipment may be anchored. Tackifers, binders and hydraulic mulch with tackifier specifically designed for tacking straw can be substituted for emulsified asphalt. Please refer to specification **Tac-Tackifers.** Plastic mesh or netting with mesh no larger than one inch by one inch shall be installed according to manufacturer's specifications.
2. Netting of the appropriate size shall be used to anchor wood waste. Openings of the netting shall not be larger than the average size of the wood waste chips.
3. Polyethylene film shall be anchor trenched at the top as well as incrementally as necessary.

Disturbed Area Stabilization (With Temporary Seeding) Ds2



DEFINITION
The establishment of temporary vegetative cover with fast growing seedings for seasonal protection on disturbed or denuded areas.

PURPOSE
- To reduce runoff and sediment damage of down stream resources
- To protect the soil surface from erosion
- To improve wildlife habitat
- To improve aesthetics
- To improve tilth, infiltration and aeration as well as organic matter for permanent plantings

REQUIREMENT FOR REGULATORY COMPLIANCE
Mulch or temporary grassing shall be applied to all exposed areas within 14 days of disturbance. Temporary grassing, instead of mulch, can be applied to rough graded areas that will be exposed for less than six months. If an area is expected to be undisturbed for longer than six months, permanent perennial vegetation shall be used. If optimum planting conditions for temporary grassing is lacking, mulch can be used as a singular erosion control device for up to six months but it shall be applied at the appropriate depth, anchored, and have a continuous 90% cover or greater of the soil surface. Refer to specification **Ds1-Disturbed Area Stabilization (With Temporary Seeding).**

Seeding
Select a grass or grass-legume mixture suitable to the area and season of the year. Seed shall be applied uniformly by hand, cyclone seeder, drill, culli-packer-seeder, or hydraulic seeder (slurry including seed and fertilizer). Drill or cultipacker seeders should normally place seed one-quarter to one-half inch deep. Appropriate depth of planting is ten times the seed diameter. Soil should be "raked" lightly to cover seed with soil if seeded by hand. See Table 6-4.1

Mulching
Temporary vegetation can, in most cases, be established without the use of mulch, provided there is little to no erosion potential. However, the use of mulch can often accelerate and enhance germination and vegetation establishment. Mulch without seeding should be considered for short term protection. Refer to **Ds1 - Disturbed Area Stabilization (With Mulching Only).**

Irrigation
During times of drought, water shall be applied at a rate not causing runoff and erosion. The soil shall be thoroughly wetted to a depth that will insure germination of the seed. Subsequent applications should be made when needed.

CONDITIONS
Temporary vegetative measures should be coordinated with permanent measures to assure economical and effective stabilization. Most types of temporary vegetation are ideal to use as companion crops until the permanent vegetation is established. Note: Some species of temporary vegetation are not appropriate for companion crop plantings because of their potential to out-compete the desired species (e.g. annual ryegrass). Contact NRCS or the local SWCD for more information.

SPECIFICATIONS
Grading and Shaping
Excessive water run-off shall be reduced by properly designed and installed erosion control practices such as closed drains, ditches, dikes, diversions, sediment barriers and others.

No shaping or grading is required if slopes can be stabilized by hand-seeded vegetation or if hydraulic seeding equipment is to be used.

Seedbed Preparation
When a hydraulic seeder is used, seedbed preparation is not required. When using conventional or hand-seeding, seedbed preparation is not required if the soil material is loose and not sealed by rainfall.

When soil has been sealed by rainfall or consists of smooth cut slopes, the soil shall be pitted, trenched or otherwise scarified to provide a place for seed to lodge and germinate.

Lime and Fertilizer
Agricultural lime is required unless soil tests indicate otherwise. Apply agricultural lime at a rate determined by soil test for pH. Quick acting lime should be incorporated to modify pH during the germination period. Bio stimulants should also be considered when there is less than 3% organic matter in the soil. Graded areas require lime application. Soils must be tested to determine required amounts of fertilizer and amendments. Fertilizer should be applied before land preparation and incorporated with a disk, ripper, or chisel. On slopes too steep for, or inaccessible to equipment, fertilizer shall be hydraulically applied, preferably in the first pass with seed and some hydraulic mulch, then topped with the remaining required application rate.

Table 6-4.1 - Temporary Cover or Companion Cover Crops
PLANT, PLANTING RATE, AND PLANTING DATE FOR TEMPORARY COVER OR COMPANION CROPS [1]

Species	Broadcast Rates		Resource Area[2]	Planting Dates by Resource Area (Solid lines indicate optimum dates, dotted lines indicate permissible but marginal dates.) J F M A M J J A S O N D	Remarks
	Rate Per Acre[2]	Pure Live Seed (PLS) Per 1000 sqft			
BARLEY *Hordeum vulagre*					
alone	3 bu. (144 lbs)	3.3 lbs	M-L	----	14,000 seed per pound. Winter hardy. Use on productive soils.
in mixture	1/2 bu. (24lbs)	0.6 lb	P	----	
			C	----	
LESPEDEZA, ANNUAL *Lespedeza striata*					
alone	40 lbs	0.9 lb	M-L	----	200,000 seed per pound. May volunteer for several years. Use inoculant EL.
in mixture	10 lbs	0.2 lb	P	----	
			C	----	
LOVEGRASS, WEEPING *Eragrostis curvula*					
alone	4 lbs	0.1 lb	M-L	----	1,500,000 seed per pound. May last for several years. Mix with *Serices lespedeza.*
in mixture	2 lbs	0.05 lb	P	----	
			C	----	
MILLET, BROWNTOP *Panicum fasciculatum*					
alone	40 lbs	0.9 lb	M-L	----	137,000 seed per pound. Quick dense cover. Will provide excessive competion in mixtures if seeded at high rate.
in mixture	10 lbs	0.2 lb	P	----	
			C	----	

Species	Broadcast Rates		Resource Area[2]	Planting Dates by Resource Area (Solid lines indicate optimum dates, dotted lines indicate permissible but marginal dates.) J F M A M J J A S O N D	Remarks
	Rate Per Acre[2]	Pure Live Seed (PLS) Per 1000 sqft			
MILLET, PEARL *Pennesetum glaucum*					
alone	50 lbs	1.1 lbs	M-L	----	88,000 seed per pound. Quick dense cover. May reach 5 feet in height. Not recommended for mixtures.
			P	----	
			C	----	
OATS *Avena sativa*					
alone	4 bu. (128 lbs)	2.9 lbs	M-L	----	13,000 seed per pound. Use on productive soils. Not as a winter hardy as rye or barley.
in mixture	1 bu. (32 lbs)	0.7 lb	P	----	
			C	----	
RYE *Secale cereale*					
alone	3 bu. (168 lbs)	3.9 lbs	M-L	----	18,000 seed per pound. Quick cover. Drought tolerant and winter hardy.
in mixture	1/2 bu. (28 lbs)	0.6 lb	P	----	
			C	----	
RYEGRASS, ANNUAL *Lolium temulentum*					
alone	40 lbs	0.9 lb	M-L	----	227,000 seed per pound. Dense cover. Very competitive and is not to be used in mixtures.
			P	----	
			C	----	
SUDANGRASS *Sorghum sudanese*					
alone	60 lbs	1.4 lbs	M-L	----	55,000 seed per pound. Good on droughty sites. Not recommended for mixtures.
			P	----	
			C	----	

Species	Broadcast Rates		Resource Area[2]	Planting Dates by Resource Area (Solid lines indicate optimum dates, dotted lines indicate permissible but marginal dates.) J F M A M J J A S O N D	Remarks
	Rate Per Acre[2]	Pure Live Seed (PLS) Per 1000 sqft			
TRITICALE *X-Triticosecale*					
alone	3 bu. (144 lbs)	3.3 lbs	C	----	Use on lower part of Southern Coastal Plain and in Atlantic Coastal Flatwoods only.
in mixture	1/2 bu. (24 lbs)	0.6 lb		----	
WHEAT *Triticum aestivum*					
alone	3 bu. (180 lbs)	4.1 lbs	M-L	----	15,000 seed per pound. Winter hardy.
in mixture	1/2 bu. (30 lbs)	0.7 lb	P	----	
			C	----	

[1]Temporary cover crops are very competitive and will crowd out perennials if seeded too heavily.
[2]Reduce seeding rates by 50% when drilled.
[3]M-L represents the Mountain; Blue Ridge; and Ridges and Valleys MLRAs.
P represents the Southern Piedmont MLRA.
C represents Southern Coastal Plain; Sand Hills; Black Lands; and Atlantic Coast Flatwoods MLRAs.
(see Figure 6-4.1, p. 6-40)

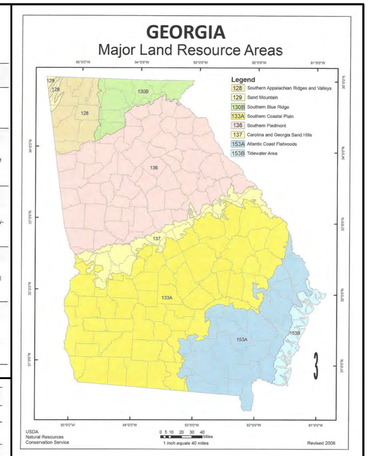


Figure 6-4.1

DESCRIPTION OF STORM WATER POLLUTION DISCHARGE PREVENTION PRACTICES

1. THE FOLLOWING IS A DESCRIPTION OF THE PRACTICES TO BE USED BUT NOT LIMITED TO :
   - A. CONSTRUCTION EXIT
   - B. SILT FENCING
   - C. TEMPORY SEDIMENT BASINS
   - D. HAY BALE CHECK DAMS
   - E. STONE CHECK DAMS
   - F. STORM OUTLET PROTECTION
   - G. GRASSING
   - ~~H. DETENTION POND~~
   - ~~I. SKIMMER~~
   - J. DUST CONTROL
   - K. CONCRETE WASHDOWN PIT

LEVEL II CERTIFICATION NO. 2104 ISSUED 11-5-05 EXPIRES 11-15-26

STREAM BUFFER ENCROACHMENT NOTES :

1. NEW STRUCTURES ON THIS PROJECT DO NOT ENCROACH IN THE 25 OR 50 FOOT STREAM BUFFER.
2. NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 OR 50 FOOT UNDISTURBED STREAM BUFFERS AS MEASURED FROM THE POINT OF WRESTED VEGETATION OR WITHIN 25 FEET OF THE COASTAL MARSHLAND BUFFER AS MEASURED FROM THE JURISDICTIONAL DETERMINATION LINE WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS.

SPECIAL CONSTRUCTION NOTE:

IF THE CONTRACTOR KNOWS OR CAN REASONABLY BE EXPECTED TO HAVE KNOWN OF AN ERROR, DISCREPANCY OR CONFLICT IN THE PLANS, SPECIFICATIONS OR CONSTRUCTION STAKING AND FAILS TO REPORT THE PROBLEM PRIOR TO CONSTRUCTION, HE SHALL NOT BE ENTITLED TO COMPENSATION FOR ANY WORK OR EXPENSE INCURRED BY HIM FOR WORK REQUIRED TO BE RE-CONSTRUCTED BECAUSE OF SAID ERROR, DISCREPANCY OR CONFLICT.

SCALE: 1" = 20'
0 20' 40' 50'

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REVISIONS

DESIGNED ---
DRAWN MAB
CHECKED ---
DATE : NOV. 26, 2024
JOB NO. ---
SCALE: as shown

SHOPPING CENTER DEVELOPMENT SITEWORK PLANS
0 OLD RICHMOND ROAD
PORT WENTWORTH, GA 31407
FOR
NISHANT RANDERWALA
PORT WENTWORTH, GA

SOIL EROSION AND SEDIMENT CONTROL NOTES

CONTACT A MINIMUM OF 72 HOURS PRIOR TO DIGGING
UTILITIES PROTECTION CENTER
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Mark Boswell
11-26-24
MARK A. BOSWELL

DRAWING NUMBER
C-24
24 OF 28 SHEETS

Disturbed Area Stabilization (With Permanent Vegetation) Ds3



DEFINITION

The planting of perennial vegetation such as trees, shrubs, vines, grasses, or legumes on exposed areas for final permanent stabilization. Permanent perennial vegetation shall be used to achieve final stabilization.

PURPOSE

- To protect the soil surface from erosion
- To reduce damage from sediment and runoff to down-stream areas
- To improve wildlife habitat and visual resources
- To improve aesthetics

REQUIREMENT FOR REGULATORY COMPLIANCE

This practice shall be applied immediately to rough graded areas that will be undisturbed for longer than six months. This practice or sodding shall be applied immediately to all areas at final grade. **Final Stabilization** means that all soil disturbing activities at the site have been completed, and that for unpaved areas and areas not covered by permanent structures and areas located outside the waste disposal limits of a landfill cell that has been certified by the GA EPD for waste disposal, 100% of the soil surface is uniformlycovered in permanent vegetation with a density of 70% or greater, or landscaped according to the Plan (uniformly covered with landscaping materials in planned landscaped areas), or equivalent permanent stabilization measures.

Permanent vegetation shall consist of, planted trees, shrubs, perennial vines; or a crop of perennial vegetation appropriate for the region, such that within the growing season a 70% coverage by perennial vegetation shall be achieved. Final stabilization applies to each phase of construction. For linear construction projects on land used for agricultural or silvicultural purposes, final stabilization may be accomplished by stabilizing the disturbed land for its agricultural or silvicultural use. Until this standard is satisfied and permanent control measures and facilities are operational, interim stabilization measures and temporary erosion and sedimentation control measures shall not be removed.

CONDITIONS

Permanent perennial vegetation is used to provide a protective cover for exposed areas including cuts, fills, dams, and other denuded areas.

PLANNING CONSIDERATIONS

1. Use conventional planting methods where possible.
2. When mixed plantings are done during marginal planting periods, companion crops shall be used.
3. No-till planting is effective when planting is done following a summer or winter annual cover crop. Serisea lespedeza planted no-till into stands of rye is an excellent procedure.
4. Block sod provides immediate cover. It is especially effective in controlling erosion adjacent to concrete flumes and other structures. Refer to Specification **Ds4-Disturbed Area Stabilization (With Sodding)**.
5. Irrigation should be used when the soil is dry or when summer plantings are done.
6. Low maintenance plants, as well as natives, should be used to ensure long-lasting erosion control.
7. Mowing should not be performed during the quail nesting season (May to September).
8. Wildlife plantings should be included in critical area plantings.

Wildlife Plantings

Commercially available plants beneficial to wildlife species include the following:

Mast Bearing Trees

Beech, Black Cherry, Blackgum, Chestnut, Chinkapin, Hackberry, Hickory, Honey Locust, Native Oak, Persimmon, Sawtooth Oak and Sweetgum.

All trees that produce nuts or fruits are favored by many game species. Hickory provides nuts used mainly by squirrels and bear.

Shrubs and Small Trees

Bayberry, Bicolor Lespedeza, Crabapple, Dogwood, Huckleberry or Native Blueberry, Mountain Laurel, Native Holly, Red Cedar, Red Mulberry, Sumac, Wax Myrtle, Wild Plum and Blackberry.

Plant in patches without tall trees to develop stable shrub communities. All produce fruits used by many kinds of wildlife, except for lespedeza (that produces seeds used by quail and songbirds.

Grasses, Legumes, Vines and Temporary Cover

Bahiagrass, Bermudagrass, Grass-Legume mixtures, Partridge Pea, Annual Lespedeza, Orchardgrass (for mountains), Browntop Millet (for temporary cover), and Native grages.

Provides herbaceous cover in clearings for a game bird brood-rearing habitat. Appropriate legumes such as vetches, clovers, and lespedezas may be mixed with grass, but they may die out after a few years.

CONSTRUCTION SPECIFICATIONS

Grading and Shaping

Grading and shaping may not be required where hydraulic seeding and fertilizing equipment is to be used. Vertical banks shall be sloped to enable plant establishment.

When conventional seeding and fertilizing are to be done, grade and shape where feasible and practical, so that equipment can be used safely and efficiently during seedbed preparation, seeding, mulching and maintenance of the vegetation.

Concentrations of water that will cause excessive soil erosion shall be diverted to a safe outlet. Diversions and other treatment practices shall conform with the appropriate standards and specifications.

Lime and Fertilizer Rates and Analysis

Agricultural lime is required at the rate of one to two tons per acre unless soil tests indicate otherwise. Graded areas require lime application. If lime is applied within six months of planting permanent perennial vegetation, additional lime is not required. Agricultural lime shall be within the specifications of the Georgia Department of Agriculture.

Lime spread by conventional equipment shall be "ground limestone." Ground limestone is calcitic or dolomitic limestone ground so that 90 percent of the material will pass through a 10-mesh sieve, not less than 50 percent will pass through a 50-mesh sieve and not less than 25 percent will pass through a 100-mesh sieve.

Fast-acting lime spread by hydraulic seeding equipment should be "finely ground limestone" spanning from the 180 micron size to the 5 micron size. Finely ground limestone is calcitic or dolomitic limestone ground so that 95 percent of the material will pass through a 100-mesh sieve.

It is desirable to use dolomitic limestone in the Sand Hills, Southern Coastal Plain and Atlantic Coast Flatwoods MLRAs. (See Figure 6-4.1)

Agricultural lime is generally not required where only trees are planted.

Initial fertilization, nitrogen, topdressing, and maintenance fertilizer requirements for each species or combination of species are listed in Table 6-5.1.

Lime and Fertilizer Application

When *hydraulic seeding* equipment is used, the initial fertilizer shall be mixed with seed, innoculant (if needed), and wood cellulose or wood pulp fiber mulch and applied in a slurry. The innoculant, if needed, shall be mixed with the seed prior to being placed into the hydraulic seeder. The slurry mixture will be agitated during application to keep the ingredients thoroughly mixed. The mixture will be spread uniformly over the area within one hour after being placed in the hydroseder.

Finely ground limestone can be applied in the mulch slurry or in combination with the top dressing.

When *conventional planting* is to be done, lime and fertilizer shall be applied uniformly in one of the following ways:

1. Apply before land preparation so that it will be mixed with the soil during seedbed preparation.
2. Mix with the soil used to fill the holes, distribute in furrows.
3. Broadcast after sleep surfaces are scarified, pitted or trenched.
4. A fertilizer pellet shall be placed at root depth in the closing hole beside each pine tree seedling.

Plant Selection

Refer to Tables 6-4.1, 6-5.2, 6-5.3 and 6-5.4 for approved species. Species not listed shall be approved by the State Resource Conservationist of the Natural Resources Conservation Service before they are used.

Plants shall be selected on the basis of species characteristics, site and soil conditions, planned use and maintenance of the area; time of year of planting; method of planting; and the needs and desires of the land user.

Some perennial species are easily established and can be planted alone. Examples of these are Common Bermuda, Tall Fescue, and Weeping Lovegrass.

Other perennials, such as Bahia Grass and Serisea Lespedeza, are slow to become established and should be planted with another perennial species. The additional species will provide quick cover and ample soil protection until the target perennial species become established. For example, Common seeding combinations are 1) Weeping Lovegrass with Serisea Lespedeza (scarified) and 2) Tall Fescue with Serisea Lespedeza (unscarified).

Plant selection may also include annual companion crops. Annual companion crops should be used only when the perennial species are not planted during their optimum planting period. A common mixture is Brown Top Millet with Common Bermuda in mid-summer. Care should be taken in selecting companion crop species and seeding rates because annual crops will compete with perennial species for water, nutrients, and growing space. A high seeding rate of the companion crop may prevent the establishment of perennial species.

Ryegrass shall not be used in any seeding mixtures containing perennial species due to its ability to out-compete desired species chosen for permanent perennial cover.

Seed Quality

The term "pure live seed" is used to express the quality of seed and is not shown on the label. Pure live seed, PLS, is expressed as a percentage of the seeds that are pure and will germinate. Information on percent germination and purity can be found on seed tags. PLS is determined by multiplying the percent of pure seed with the percent of germination, i.e.,

(PLS = % germination x % purity)

EXAMPLE:

Common Bermuda seed
70% germination, 80% purity

PLS = 70% germination x 80% purity

PLS = 56%

The percent of PLS helps you determine the amount of seed you need. If the seeding rate is 10 pounds PLS and the bulk seed is 56 % PLS, the bulk seeding rate is:

10 lbs. PLS/acre = 17.9 lbs/acre
56% PLS

You would need to plant 17.9 lbs/acre to provide 10 lbs/acre of pure live seed.

Seedbed Preparation

Seedbed preparation may not be required where hydraulic seeding and fertilizing equipment is to be used (but is strongly recommended for any seeding process, when possible). When conventional seeding is to be used, seedbed preparation will be done as follows:

Broadcast plantings

1. Tillage, at a minimum, shall adequately loosen the soil to a depth of 4 to 6 inches; alleviate compaction; incorporate lime and fertilizer; smooth and firm the soil; allow for the proper placement of seed, sprigs, or plants; and allow for the anchoring of straw or hay mulch if a disk is to be used.
2. Tillage may be done with any suitable equipment.
3. Tillage should be done on the contour where feasible.
4. On slopes too steep for the safe operation of tillage equipment, the soil surface shall be pitted or trenched across the slope with appropriate hand tools to provide two places 6 to 8 inches apart in which seed may lodge and germinate. Hydraulic seeding may also be used.

Individual Plants

1. Where individual plants are to be set, the soil shall be prepared by excavating holes, opening furrows, or dibble planting.
2. For nursery stock plants, holes shall be large enough to accommodate roots without crowding.
3. Where pine seedlings are to be planted, subsoil under the row 36 inches deep on the contour four to six months prior to planting. Subsoiling should be done when the soil is dry, preferably in August or September.

Inoculants

All legume seed shall be inoculated with appropriate nitrogen-fixing bacteria. The inoculant shall be a pure culture prepared specifically for the seed species and used within the dates on the container.

A mixing medium recommended by the manufacturer shall be used to bond the inoculant to the seed. For conventional seeding, use twice the amount of inoculant recommended by the manufacturer. For hydraulic seeding, four times the amount of inoculant recommended by the manufacturer shall be used.

All inoculated seed shall be protected from the sun and high temperatures and shall be planted the same day inoculated. No inoculated seed shall remain in the hydroseeder longer than one hour.

Planting

Hydraulic Seeding

Mix the seed (inoculated if needed), fertilizer, and wood cellulose or wood pulp fiber mulch with water and apply in a slurry uniformly over the area to be treated. Apply within one hour after the mixture is made.

Conventional Seeding

Seeding will be done on a freshly prepared and firmed seedbed. For broadcast planting, use a cultipacker-seeder, drill, rotary seeder, other mechanical seeder, or hand seeding to distribute the seed uniformly over the area to be treated. Cover the seed lightly with 1/8 to 1/4 inch of soil for small seed and 1/2 to 1 inch for large seed when using a cultipacker or other suitable equipment.

Individual Plants

1. Where individual plants are to be set, the soil shall be prepared by excavating holes, opening furrows, or dibble planting.
2. For nursery stock plants, holes shall be large enough to accommodate roots without crowding.
3. Where pine seedlings are to be planted, subsoil under the row 36 inches deep on the contour four to six months prior to planting. Subsoiling should be done when the soil is dry, preferably in August or September.

Inoculants

All legume seed shall be inoculated with appropriate nitrogen-fixing bacteria. The inoculant shall be a pure culture prepared specifically for the seed species and used within the dates on the container.

A mixing medium recommended by the manufacturer shall be used to bond the inoculant to the seed. For conventional seeding, use twice the amount of inoculant recommended by the manufacturer. For hydraulic seeding, four times the amount of inoculant recommended by the manufacturer shall be used.

All inoculated seed shall be protected from the sun and high temperatures and shall be planted the same day inoculated. No inoculated seed shall remain in the hydroseeder longer than one hour.

Planting

Hydraulic Seeding

Mix the seed (inoculated if needed), fertilizer, and wood cellulose or wood pulp fiber mulch with water and apply in a slurry uniformly over the area to be treated. Apply within one hour after the mixture is made.

Conventional Seeding

Seeding will be done on a freshly prepared and firmed seedbed. For broadcast planting, use a cultipacker-seeder, drill, rotary seeder, other mechanical seeder, or hand seeding to distribute the seed uniformly over the area to be treated. Cover the seed lightly with 1/8 to 1/4 inch of soil for small seed and 1/2 to 1 inch for large seed when using a cultipacker or other suitable equipment.

No-Till Seeding

No-till seeding is permissible into annual cover crops when planting is done following maturity of the cover crop or if the temporary cover stand is sparse enough to allow adequate growth of the permanent (perennial) species. No-till seeding shall be done with appropriate no-till seeding equipment. The seed must be uniformly distributed and planted at the proper depth.

Individual Plants

Shrubs, vines and sprigs may be planted with appropriate planters or hand tools. Pine trees shall be planted manually in the subsoil furrow. Each plant shall be set in a manner that will avoid crowding the roots.

Nursery stock plants shall be planted at the same depth or slightly deeper than they grew at the nursery. The tips of vines and sprigs must be at or slightly above the ground surface.

Where individual holes are dug, fertilizer shall be placed in the bottom of the hole, two inches of soil shall be added and the plant shall be set in the hole.

Mulching

Mulch is required for all permanent vegetative applications. Mulch applied to graded areas shall achieve 75% to 100% soil cover. When selecting a mulch, design professionals should consider the mulch's functional longevity, vegetation establishment enhancement, and erosion control effectiveness. Select the mulching material from the following and apply as indicated:

1. *Dry straw or dry hay* of good quality and free of weed seeds can be used. Dry straw shall be applied at the rate of 2 tons per acre. Dry hay shall be applied at a rate of 2 1/2 tons per acre.
2. *Wood cellulose mulch or wood pulp fiber* shall be used with hydraulic seeding. It shall be applied at the rate of 500 pounds per acre. Dry straw or dry hay shall be applied (at the rate indicated above) after hydraulic seeding.
3. One thousand pounds of *wood cellulose or wood pulp fiber*, which includes a tackifier, shall be used with hydraulic seeding on slopes 3/4:1 or steeper.
4. *Serisea Lespedeza* hay containing mature seed shall be applied at a rate of three tons per acre.
5. *Pine straw or pine bark* shall be applied at a thickness of 3 inches for bedding purposes. Other suitable materials in sufficient quantity may be used where ornamentals or other ground covers are planted. This is not appropriate for seeded areas.
6. When using temporary erosion control blankets or block sod, mulch is not required.
7. *Bituminous treated roving* may be applied on planted areas, slopes, in ditches or dry waterways to prevent erosion. Bituminous treated roving shall be applied within 24 hours after an area has been planted. Application rates and materials must meet Georgia Department of Transportation specifications.

Wood cellulose and wood pulp fibers shall not contain germination or growth inhibiting factors. They shall be evenly dispersed when agitated in water. The fibers shall contain a dye to allow visual metering and aid in uniform application during seeding.

Applying Mulch

Straw or hay mulch will be spread uniformly within 24 hours after seeding and/or planting. The mulch may be spread by blower-type spreading equipment, other spreading equipment or by hand. Mulch shall be applied to cover 75% of the soil surface.

Wood cellulose or wood fiber mulch shall be applied uniformly with hydraulic seeding equipment.

Anchoring Mulch

Anchor straw or hay mulch immediately after application by one of the following methods:

1. *Hay and straw mulch* shall be pressed into the soil immediately after the mulch is spread. A special "packer disk" or disk harrow with the disks set straight may be used. The disks may be smooth or serrated and should be 20 inches or more in diameter and 9 to 12 inches apart. The edges of the disks shall be dull enough to press the mulch into the ground without cutting it, leaving much of it in an erect position. Mulch shall not be plowed into the soil.
2. *Synthetic tackifiers, binders or hydraulic mulch specifically designed to tack straw,* shall be applied in conjunction with or immediately after the mulch is spread. Synthetic tackifiers shall be mixed and applied according to manufacturer's specifications. All tackifiers, binders or hydraulic mulch specifically designed to tack straw should be verified nontoxic through EPA 2021.0 testing. Refer to **Tackifiers-Tac**
3. *Rye or wheat* can be included with Fall and Winter plantings to stabilize the mulch. They shall be applied at a rate of one-quarter to one-half bushel per acre.
4. *Plastic mesh or netting* with mesh no larger than one inch by one inch may be needed to anchor straw or hay mulch on unstable soils and concentrated flow areas. These materials shall be installed and anchored according to manufacturer's specifications.

Bedding Material

Mulch is used as a bedding material to conserve moisture and control weeds in nurseries, ornamental beds, around shrubs, and on bare areas on lawns.

Material	Depth
Grain straw	4" to 6"
Grass Hay	4" to 6"
Pine needles	3" to 5"
Wood waste	4" to 6"

Irrigation

Irrigation will be applied at a rate that will not cause runoff.

Topdressing

Topdressing will be applied on all temporary and permanent (perennial) species planted alone or in mixtures with other species. Recommended rates of application are listed in Table 6-5.1.

Second Year and Maintenance Fertilization

Second year fertilizer rates and maintenance fertilizer rates are listed in Table 6-5.1.

Lime Maintenance Application

Apply one ton of agricultural lime every 4 to 6 years or as indicated by soil tests. Soil tests can be conducted to determine more accurate requirements, if desired.

Use and Management

Mow Sericea Lespedeza only after frost to ensure that the seeds are mature. Mow between November and March.

Bermudagrass, Bahiagrass and Tall Fescue may be mowed as desired. Maintain at least 6 inches of top growth under any use and management. Moderate use of top growth is beneficial after establishment.

Exclude traffic until the plants are well established. Because of the quail nesting season, mowing should not take place between May and September.

Table 6-5.1. Fertilizer Requirements

TYPE OF SPECIES	YEAR	ANALYSIS OR EQUIVALENT N-P-K	RATE	N TOP DRESSING RATE
1. Cool season grasses	First Second Maintenance	6-12-12 6-12-12 10-10-10	1500 lbs./ac. 1000 lbs./ac. 400 lbs./ac.	50-100 lbs./ac. 1/2/ 30
2. Cool season grasses and legumes	First Second Maintenance	6-12-12 0-10-10 0-10-10	1500 lbs./ac. 1000 lbs./ac. 400 lbs./ac.	0-50 lbs./ac. 1/
3. Ground covers	First Second Maintenance	10-10-10 10-10-10 10-10-10	1300 lbs./ac. 3/ 1300 lbs./ac. 3/ 1100 lbs./ac.	— — —
4. Pine seedlings	First.	20-10-5	one 21-gram pellet per seedling placed in the closing hole	—
5. Shrub Lespedeza	First Maintenance	0-10-10 0-10-10	700 lbs./ac. 700 lbs./ac. 4/	— —
6. Temporary cover crops seeded alone	First	10-10-10	500 lbs./ac.	30 lbs./ac. 5/
7. Warm season grasses	First Second Maintenance	6-12-12 6-12-12 10-10-10	1500 lbs./ac. 800 lbs./ac. 400 lbs./ac.	50-100 lbs./ac. 2/6/ 50-100 lbs./ac. 2/ 30 lbs./ac.
8. Warm season grasses and legumes	First Second Maintenance	6-12-12 0-10-10 0-10-10	1500 lbs./ac. 1000 lbs./ac. 400 lbs./ac.	50 lbs./ac.6/

1/ Apply in spring following seeding.
2/ Apply in split applications when high rates are used.
3/ Apply in 3 split applications.
4/ Apply when plants are pruned.
5/ Apply to grass species only.
6/ Apply when plants grow to a height of 2 to 4 inches.

Table 6-5.2- Permanent Cover Crops
PLANT, PLANTING RATE, AND PLANTING DATE FOR PERMANENT COVER [1]

Species	Broadcast Rates		Resource Area[2]	Planting Dates by Resource Area (Solid lines indicate optimum dates, dotted lines indicate permissible but marginal dates.) J F M A M J J A S O N D	Remarks
	Pure Live Seed (PLS) Rate Per Acre	Per 1000 sqft			
BAHIA, PENSACOLA *Paspalum notatum*					
alone or with temporary cover	60 lbs	1.4 lbs	P		166,000 seed per pound. Low growing, Sod forming. Slow to establish. Plant with a companion crop. Will spread into bermuda pastures and lawns. Mix with Serisea lespedeza or weeping lovegrass.
with other perennials	30 lbs	0.7 lb	C		
BAHIA, WILMINGTON *Paspalum notatum*					
alone or with temporary cover	60 lbs	1.4 lb	M-L		Same as above.
with other perennials	30 lbs	0.7 lb	P		
BERMUDA, COMMON *Cynodon dactylon*					
Hulled seed alone	10 lbs	0.2 lb	P C		1,787,000 seed per pound. Quick cover. Low growing and sod forming. Full sun. Good for athletic fields.
with other perennials	6 lbs	0.7 lb			
BERMUDA, COMMON *Cynodon dactylon*					
Unhulled seed with temporary cover	10 lbs	0.2 lb	P		Plant with winter annuals.
with other perennials	6 lbs	0.1 lb	C		Plant with Tall Fescue

Table 6-5.2- Permanent Cover Crops
PLANT, PLANTING RATE, AND PLANTING DATE FOR PERMANENT COVER [1]

Species	Broadcast Rates		Resource Area[2]	Planting Dates by Resource Area (Solid lines indicate optimum dates, dotted lines indicate permissible but marginal dates.) J F M A M J J A S O N D	Remarks
	Pure Live Seed (PLS) Rate Per Acre	Per 1000 sqft			
BERMUDA SPRIGS *Cynodon dactylon*					
Coastal, Common, Midland, or Tift 44	40 cu ft or sod plugs 3' x3'	0.9 cu ft.	M-L P C		A cubic foot contains approximately 650 sprigs. A bushel contains 1.25 cubic feet or approximately 800 springs.
Coastal, Common, of Tift 44					Same as above.
Tift 78			C		Southern Coastal Plain only
CENTIPEDE *Eremochloa ophuiroides*	Block sod only		P C		Drought tolerant. Full sun or partial shade. Effective adjacent to concrete and in-penetrated flow areas. Irrigation is needed until fully established. Do not plant near pastures. Winterhardy as far as north Athens and Atlanta
CROWNVETECH Coronilla varia					
with winter annuals or cool season grasses	15 lbs	0.3 lb	M-L P		100,000 seed per pound. Dense growth. Drought tolerant and fire resistant. Attractive rose, pink and white blossoms spring to late fall. Mix with 30 pounds of Tall fescue or 15 pounds of rye. Inoculate see with M inoculant. Use from North Atlanta and Northward.

Table 6-5.2- Permanent Cover Crops
PLANT, PLANTING RATE, AND PLANTING DATE FOR PERMANENT COVER [1]

Species	Broadcast Rates		Resource Area[2]	Planting Dates by Resource Area (Solid lines indicate optimum dates, dotted lines indicate permissible but marginal dates.) J F M A M J J A S O N D	Remarks
	Pure Live Seed (PLS) Rate Per Acre	Per 1000 sqft			
FESCUE, TALL *Festuca arundinacea*					
alone	50 lbs	1.1 lb	M-L P		227,000 seed per pound. Use alone only on better sites. Mix with perennial lespedeza or Crownvetch. Apply topdressing in spring following fall plantings. Not for heavy use areas or athletic fields.
with other perennials	30 lbs	0.7 lb			
KUDZU *Pueraria thumbergiana*					
Plants or crowns	3' - 7' apart		ALL		Rapid and vigorous growth. Excellent in gully erosion control. Will climb. Good livestock forage.
LESPEDEZA SERICEA *Lespedeza cuneata*					
scarified	60 lbs	1.4 lb	M-L P C		350,000 seed per pound. Widely adapted. Low maintenance. Mix with Weeping lovegrass, Common bermuda, bahia, or tall fescues. Takes 2 to 3 years to become fully established. Excellent on roadbanks. Inoculate seed with EL inoculant.
unscarified	75 lbs	1.7 lb	M-L P C		
seed- bearing hay	3 tons	1338 lbs	M-L P C		Mix with Tall fesue or winter annuals. Cut when seed mixture is mature, but before, it shatters. Add Tall fescue or winter annuals.

Table 6-5.2- Permanent Cover Crops
PLANT, PLANTING RATE, AND PLANTING DATE FOR PERMANENT COVER [1]

Species	Broadcast Rates		Resource Area[2]	Planting Dates by Resource Area (Solid lines indicate optimum dates, dotted lines indicate permissible but marginal dates.) J F M A M J J A S O N D	Remarks
	Pure Live Seed (PLS) Rate Per Acre	Per 1000 sqft			
LESPEDEZA *Ambro virgata Lespedeza virgata DC* or *Appalow Lespedeza cuneata (Dumont) G. Don)*					
scarified	60 lbs	1.4 lb	M-L P C		300,000 seed per pound. Height of growth is 18 to 24 inches. Advantageous in urban areas. Spreading-type growth. New growth has bronze coloration. Mix with weeping lovegrass, common bermuda, bahia, tall fescue or winter annuals. Do not mix with Serisea lespedeza. Slow to develop solid stands. Inoculate seed with EL inoculant.
unscarified	75 lbs	1.7 lb	M-L P C		
LESPEDEZA, SHRUB *Lespedeza bicolor Lespedeza thumbergii*					
plants	3' x3'		M-L P C		Provide wildlife food and cover.
LOVEGRASS, WEEPING *Eragrostis curvula*					
alone	4 lbs	0.1 lb	M-L P C		1,500,000 seed per pound. Quick cover. Drought tolerant. Grows well with Sericea lespedeza on roadbanks.
with other perennials	2 lbs	0.05 lb			

Table 6-5.2- Permanent Cover Crops
PLANT, PLANTING RATE, AND PLANTING DATE FOR PERMANENT COVER [1]

Species	Broadcast Rates		Resource Area[2]	Planting Dates by Resource Area (Solid lines indicate optimum dates, dotted lines indicate permissible but marginal dates.) J F M A M J J A S O N D	Remarks
	Pure Live Seed (PLS) Rate Per Acre	Per 1000 sqft			
MAIDENCANE *Panicum hemitumon*					
sprigs	2' x 3' spacing		ALL		For very wet sites. May clog channels. Dig sprigs from local sources. Use along river banks and shorelines.
PANICGRASS, ATLANTIC COASTAL *Panicum amarum var amarulum*					
	20 lbs	0.5 lb	P C		Grows well on coastal sand dunes, borrow areas, and gravel pits. Provides winter cover for wildlife. Mix with Sericea lespedeza except on sand dunes.
REED CANARY GRASS *Phalaris arundinacea*					
alone	50 lbs	1.1 lb	M-L		Grows similar to Tall fescue
with other perennials	30 lbs	0.7 lb	P		
SUNFLOWER, 'AZTEC' MAXIMILLIAN *Hellanthus maximiliani*					
	10 lbs	0.2 lb	M-L P C		227,000 seed per pound. Mix with Weeping lovegrass or other low-growing grasses or legumes.

1 Reduce seeding rates by 50% when drilled
2 PLS is an abbreviation for Pure Live Seed. Refer to Section V.E. of these specifications.
3 M-L represents to Mountain; Blue Ridge; and Ridges and Valleys MLRAs
P represents the Southern Piedmont MLRA
C represents the Souther Coastal Plain;Sand Hills;Black Lands;and Atlantic Coast Flatwoods MLRAs. See Figure 6-4.1

Table 6-5.3. Durable Shrubs and Ground Covers for Permanent Cover

Ground covers include a wide range of low-growing plants planted together in considerable numbers to cover large areas of the landscape. Ground covers grow slower than grasses. Weeds are likely to compete, especially the first year. Maintenance is needed to insure survival. These ground covers will not be used unless proper maintenance is planned. Maintain mulch at three-inch thickness until plants provide adequate cover.

Fall planting is encouraged because the need for constant watering is reduced and plants have time to establish new roots before hot weather.

Common Name	Scientific Name	Mature Height	Plant Spacing	Comments
Abelia	Abelia grandiflora	3-4 ft.	5 ft.	Also a prostrate form 2 feet high. Sun, semi-shade. Semi-evergreen.
Carolina Yellow Jessamine	Gelsemium sempervirens	low	3 ft.	Vine. Yellow, trumpet-like flowers. Hardy, one of best vines. Evergreen. Native to Georgia
Carpet Bluet	Ayuga reptans	2-4 in.	3 ft.	Needs good drainage, partial shade. Blue or white flowers. Evergreen.
Bearberry Cotoneaster	Cotoneaster dammeri	2-4 ft.	5 ft.	White flowers, red fruit. Sun. Evergreen.
Ground Cover Cotoneaster	Cotoneaster salicifolius 'Repens'	1-2 ft.	5 ft.	White flowers, red fruit. Sun. Evergreen.
Rock Cotoneaster	Cotoneaster horizontalis	1-2 ft.	5 ft.	Semi-evergreen. Sun.
Virginia Creeper	Parthenocissus quinquefolia	low	3 ft.	Red in fall. Vine. Deciduous. Native to Georgia
Daylily	Hemerocallis spp.	2-3 ft.	2 ft.	Many flower colors. Full sun. Very hardy.
English Ivy	Hedera helix	low	3 ft.	Shade only. Climbs.
Compacta Holly	Ilex cornuta 'Compacta'	3-4 ft.	5 ft.	Sun, semi-shade.
Chinese Holly	Ilex cornuta 'Rotunda'	3-4 ft.	5 ft.	Very durable. Sun, semi-shade.
'Dwarf Burford Holly	Ilex burfordii 'Nana'	5-8 ft.	8 ft.	
Dwarf Yaupon Holly	Ilex vomitoria 'Nana'	3-4 ft.	5 ft.	Very durable, sun, semi-shade.

Table 6-5.3. Durable Shrubs and Ground Covers for Permanent Cover

Common Name	Scientific Name	Mature Height	Plant Spacing	Comments
'Repandens Holly	Ilex crenata 'Repandens'	2-3 ft.	5 ft.	Sun, semi-shade.
Andorra Juniper	Juniperus horizontalis 'Plumosa'	2-3 ft.	5 ft.	Excellent for slopes. Sun.
Andorra Compacta Juniper	Juniperus horizontalis 'Plumosa compacta'	1-2 ft.	5 ft.	More compact than andora.
Blue Chip Juniper	Juniperus horizontalis 'Blue Chip'	8-10 in.	4 ft.	
Blue Rug Juniper	Juniperus horizontalis 'Wiltoni'	4-6 in.	3 ft.	Very low. Sun.
Parsons Juniper	Juniperus davurica 'Expansa' (Squamata Parsoni)	18-24 in.	5 ft.	One of the best, good winter cover.
Pfitzer Juniper	Juniperus chinensis 'Pfitzerana'	6-8 ft.	6 ft.	Needs room.
Prince of Wales Juniper	Juniperus horizontalis 'Prince of Wales'	8-10 in.	4 ft.	Feathery appearance.
Sargent Juniper	Juniperus chinensis 'Sargentii'	1-2 ft.	5 ft.	Full sun. Needs good drainage. Good winter color.
Tiffone Juniper	Juniperus conferta	2-3 ft.	5 ft.	Emerald Sea or Blue Pacific cultivars are good.
Liriope	Liriope muscari	8-10 in.	3 ft.	

Table 6-5.3. Durable Shrubs and Ground Covers for Permanent Cover

Common Name	Scientific Name	Mature Height	Plant Spacing	Comments
Creeping Liriope	Liriope spicata	10-12 in.	1 ft.	Spreads by runners.
Big Leaf Periwinkle	Vinca major	12-15 in.	4 ft.	Lilac flowers in spring. Semi-shade.
Common Periwinkle	Vinca minor	5-6 in.	4 ft.	Lavender-blue flowers in spring. Semi-shade
Cherokee Rose	Rosa laevigata	2 ft.	5 ft.	Rampant grower. Not for restricted spaces. State flower.
Memoria Rose	Rosa weuchuniana	2 ft.	5 ft.	Rampant grower.
St. Johnswort	Hypericum calycinum	8-12 in.	3 ft.	Semi-shade.
Anthony Waterer Spirea	Spirea bumalda	3-4 ft.	5 ft.	Sun.
Thunberg Spirea	Spirea thinbergii	3-4 ft.	5 ft.	Sun.

Table 6-5.4.

Trees for Erosion Control

SITE	SOIL MATERIAL	COMMON SOILS	PLANTING TREE SPECIES[3]	SPACING	PLANTING DATES[3]
Borrow areas, graded areas, and spoil material	Sandy	Lakeland, Troup	Loblolly pine (Pinus taeda) Longleaf pine (Pinus palustris)	[4]	M-L,P 12/1-3/15 C 12/1-3/1
	Loamy	Orangeburg, Tifton	Loblolly pine Slash pine Loblolly pine	[4]	M-L,P 12/1-3/15 C 12/1-3/1
	Clay	Cecil, Faceville	Slash pine Virginia pine (Pinus virginiana)	[4]	M-L,P 12/1-3/15 C 12/1-3/1
Streambanks			Willows* (Salix speciecs)	2 ft x 2 ft	ALL

1 Other trees and shrubs listed on Table 6-25.3 may be interplanted with the pines for improved wildlife benefits.

2 Type of Planting — Tree Spacing — No. of Trees Per Acre
Trees alone — 4 ft. x 4 ft. — 2722
Trees in combination with grasses and/or other plants — 6 ft. x 6 ft. — 1210

3 M-L represents the Mountains; Blue Ridge; and Ridges and Vallevs MLRAs
P represents the Southern Piedmont MLRA
C represents the Southern Coastal Plain; Sand Hills; Black Lands; and Atlantic Coast Flatwoods MLRAs (See Figure 6-4.1).

4 Fertilization of companion crop is ample for this species.

DESCRIPTION OF STORM WATER POLLUTION DISCHARGE PREVENTION PRACTICES

1. THE FOLLOWING IS A DESCRIPTION OF THE PRACTICES TO BE USED BUT NOT LIMITED TO :
   - A. CONSTRUCTION EXIT
   - B. SILT FENCING
   - C. TEMPORY SEDIMENT BASINS
   - D. HAY BALE CHECK DAMS
   - E. STONE CHECK DAMS
   - F. STORM OUTLET PROTECTION
   - G. GRASSING
   - ~~H. DETENTION POND~~
   - ~~I. SKIMMER~~
   - J. DUST CONTROL
   - K. CONCRETE WASHDOWN PIT

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SPECIAL CONSTRUCTION NOTE:

IF THE CONTRACTOR KNOWS OR CAN REASONABLY BE EXPECTED TO HAVE KNOWN OF AN ERROR, DISCREPANCY OR CONFLICT IN THE PLANS, SPECIFICATIONS OR CONSTRUCTION STAKING AND FAILS TO REPORT THE PROBLEM PRIOR TO CONSTRUCTION, HE SHALL NOT BE ENTITLED TO COMPENSATION FO

DISTURBED AREA STABILIZATION (WITH SODDING)

Ds4



DEFINITION

A permanent vegetative cover using sods on highly erodible or critically eroded lands.

PURPOSE

- Establish immediate ground cover.
- Reduce runoff and erosion.
- Improve aesthetics and land value.
- Reduce dust and sediments.
- Stabilize waterways, critical areas.
- Filter sediments, nutrients and bugs.
- Reduce downstream complaints.
- Reduce likelihood of legal action.
- Reduce likelihood of work stoppage due to legal action.
- Increase "good neighbor" benefits.

CONDITIONS

This application is appropriate for areas that require immediate vegetative covers, drop inlets, grass swales, and waterways with intermittent flow.

PLANNING CONSIDERATIONS

Sodding can initially be more costly than seeding, but the advantages justify the increased initial costs:

1. Immediate erosion control, green surface, and quick use.
2. Reduced failure as compared to seed as well as the lack of weeds.
3. Can be established nearly year-round.

Sodding is preferable to seed in waterways and swales because of the immediate protection of the channel after application. Sodding must be staked in concentrated flow areas (See Figure 6-6.1).

Consider using sod framed around drop inlets to reduce sediments and maintaining the grade.

CONSTRUCTION SPECIFICATIONS

Soil Preparation

Bring soil surface to final grade. Clear surface of trash, woody debris, stones and clods larger than 1". Apply sod to soil surfaces only and not frozen surfaces, or gravel type soils.

Topsoil properly applied will help guarantee a stand. Don't use topsoil recently treated with herbicides or soil sterilants.

Mix fertilizer into soil surface. Fertilize based on soil tests or Table 6-6.1.

Table 6-6.1. Fertilizer Requirements for Soil Surface Application

Fertilizer Type	Fertilizer Rate (lbs/acre)	Fertilizer Rate (lbs/sq ft)	Season
10-10-10	1000	.025	Fall

Agricultural lime should be applied based on soil tests or at a rate of 1 to 2 tons per acre.

Installation

Lay sod with tight joints and in straight lines. Don't overlap joints. Stagger joints and do not stretch sod (See Figure 6-6.2)

On slopes steeper than 3:1, sod should be anchored with pins or other approved methods. Installed sod should be rolled or tamped to provide good contact between sod and soil.

Irrigate sod and soil to a depth of 4" immediately after installation.

Sod should not be cut or spread in extremely wet or dry weather. Irrigation should be used to supplement rainfall for a minimum of 2-3 weeks.

MATERIALS

Sod selected should be certified. Sod grown in the general area of the project is desirable.

1. Sod should be machine cut and contain 3/4" (+ or -1/4") of soil, not including shoots or thatch.
2. Sod should be cut to the desired size within + or -5%. Torn or uneven pads should be rejected.
3. Sod should be cut and installed within 36 hours of digging.
4. Avoid planting when subject to frost heave or hot weather, if irrigation is not available.
5. The sod type should be shown on the plans or installed according to Table 6-6.2. See Figure 6-4.1 for your Resource Area.

Table 6-6.2 Sod Planting Requirements

Grass	Varieties	Resource Area	Growing Season
Bermudagrass	Common Tifway Tifgreen Tifawn	M-L,P,C P,C P,C P,C	warm weather
Bahiagrass	Pensacola	P,C	warm weather
Centipedo	...	P,C	warm weather
St. Augustine	Common Bitterblue Raleigh	C	warm weather
Zoysia	Emerald Myer	P,C	warm weather
Tall Fescue	Kentucky	M-L,P	cool weather

MAINTENANCE

Re-sod areas where an adequate stand of sod is not obtained. New sod should be mowed sparingly. Grass height should not be cut less than 2"-3" or as specified (See Figure 6-6.2).

Apply one ton of agricultural lime as indicated by soil test or every 4-6 years. Fertilize grasses in accordance with soil tests or Table 6-6.3.

Table 6-6.3 Fertilizer Requirements for Sod

Types of Species	Planting Year	Fertilizer (N-P-K)	Rate (lbs./acre)	Nitrogen Top Dressing Rate (lbs./acre)
cool season grasses	first second maintenance	6-12-12 6-12-12 10-10-10	1500 1000 400	50-100 - 30
warm season grasses	first second maintenance	6-12-12 6-12-12 10-10-10	1500 800 400	50-100 50-100 30

DESCRIPTION OF STORM WATER POLLUTION DISCHARGE PREVENTION PRACTICES

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   - C. TEMPORY SEDIMENT BASINS
   - D. HAY BALE CHECK DAMS
   - E. STONE CHECK DAMS
   - F. STORM OUTLET PROTECTION
   - G. GRASSING
   - ~~H. DETENTION POND~~
   - ~~I. SKIMMER~~
   - J. DUST CONTROL
   - K. CONCRETE WASHDOWN PIT

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STREAM BUFFER ENCROACHMENT NOTES :

1. NEW STRUCTURES ON THIS PROJECT DO NOT ENCROACH IN THE 25 OR 50 FOOT STREAM BUFFER.

2. NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 OR 50 FOOT UNDISTURBED STREAM BUFFERS AS MEASURED FROM THE POINT OF WRESTED VEGETATION OR WITHIN 25 FEET OF THE COASTAL MARSHLAND BUFFER AS MEASURED FROM THE JURISDICTIONAL DETERMINATION LINE WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS.

SPECIAL CONSTRUCTION NOTE:

IF THE CONTRACTOR KNOWS OR CAN REASONABLY BE EXPECTED TO HAVE KNOWN OF AN ERROR, DISCREPANCY OR CONFLICT IN THE PLANS, SPECIFICATIONS OR CONSTRUCTION STAKING AND FAILS TO REPORT THE PROBLEM PRIOR TO CONSTRUCTION, HE SHALL NOT BE ENTITLED TO COMPENSATION FOR ANY WORK OR EXPENSE INCURRED BY HIM FOR WORK REQUIRED TO BE RE-CONSTRUCTED BECAUSE OF SAID ERROR, DISCREPANCY OR CONFLICT.

SCALE: 1" = 20'

0 20' 40' 50'

REVISIONS

BOSWELL DESIGN SERVICES, INC.
OFFICE : 4700 EAST HIGHWAY 80
Unit K, Suite 101
MAILING : 103 NASSAU DRIVE
SAVANNAH, GEORGIA 31410
912 - 897 - 6932
LAHBOS@Bellsouth.net

DESIGNED ---
DRAWN MAB
CHECKED ---
DATE : NOV. 26, 2024
JOB NO. ---
SCALE: as shown

SHOPPING CENTER DEVELOPMENT SITEWORK PLANS
0 OLD RICHMOND ROAD
PORT WENTWORTH, GA 31407
FOR
NISHANT RANDERWALA
PORT WENTWORTH, GA

SOIL EROSION AND SEDIMENT CONTROL NOTES

CONTACT A MINIMUM OF 72 HOURS PRIOR TO DIGGING
GEORGIA UTILITIES PROTECTION CENTER, INC. GA. 811
UTILITIES PROTECTION CENTER
1-800-282-7411

GEORGIA REGISTERED No. 26372 PROFESSIONAL ENGINEER MARK A. BOSWELL
Mark Boswell
11-26-24

DRAWING NUMBER
C-26
26 OF 28 SHEETS

BUILDING #2
for
COLDBROOK PLAZA
PORT WENTWORTH, GEORGIA

DESIGN TEAM

ARCHITECTURE

DPR ARCHITECTURE
12A EAST GRADY STREET
STATESBORO, GEORGIA 30458
912-764-6288
dprarch.com

ENGINEERING

SAUSSY ENGINEERING
400 JOHNNY MERCER BLVD, SUITE E
SAVANNAH, GA 31410
P:(912) 898-8255

PERSPECTIVE VIEW



1 ELEVATION
N. T. S.

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SQUARE FOOTAGE

UNIT #1 –	2,175 SF
UNIT #2 –	2,190 SF
UNIT #3 –	2,190 SF
UNIT #4 –	2,175 SF
TOTAL–	8,730 SF

DPR ARCHITECTURE
D'ARCANGELO PALMER RULE

12A E. GRADY STREET
P.O. BOX 1382
912-764-6288

STATESBORO
GEORGIA 30458

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BUILDING #2
COLDBROOK PLAZA
OLD RICHMOND ROAD
PORT WENTWORTH, GA

CHECK SET

PROJECT NUMBER: 2367
PROJECT DATE: 10/1/24
DRAWN BY: AMG
APPROVED BY: TKP

SCHEDULE OF REVISIONS

#	DATE

TITLE SHEET

T1

STRUCTURAL NOTES

BASIS OF DESIGN:

A. GRAVITY LOADS	UNIFORM LOADS
1. ROOF DEAD LOADS:	21 PSF
2. ROOF LIVE LOADS:	20 PSF

B. SNOW LOADS (REFERENCE: ASCE 7-16)

GROUND SNOW LOAD, Pg =	5 PSF	(FIGURE 7.2-1)
Ce =	0.90 (TERRAIN CATEGORY C)	(TABLE 7.3-1)
Ct =	1.0	(TABLE 7.3-2)
I =	1.1 (BUILDING CAT. II)	(TABLE 7-4)

C. WIND LOADS (REFERENCE: ASCE 7-16)

BASIC WIND SPEED (3 SECOND GUST), V =	132 MPH	(FIGURE 26.5-1B)
NOMINAL WIND SPEED,	Vasd = 103 MPH	
RISK CATEGORY = II		(TABLE 1.5-1)
EXPOSURE CATEGORY = B		(SECTION 26.7)
INTERNAL PRESSURE COEFFICIENTS: (ENCLOSED BUILDING TYPE)	+0.18,-0.18	(TABLE 26.13-1)

THIS PROJECT IS NOT LOCATED IN A WIND-BORNE DEBRIS REGION.

D. SEISMIC LOADS (REFERENCE: ASCE 7-16)

RISK CATEGORY II		(TABLE 1.5-1)
0.2 SEC SPECTRAL RESPONSE ACCELERATION:	Ss = 0.315	
1.0 SEC SPECTRAL RESPONSE ACCELERATION:	S1 = 0.114	
SPECTRAL RESPONSE ACCELERATION:	Sds = 0.325	
SPECTRAL RESPONSE ACCELERATION:	Sd1 = 0.181	
SITE CLASSIFICATION = D (ASSUMED)		(SECTION 11.4)
BASIC SEISMIC-FORCE-RESISTING SYSTEM		
LONGITUDINAL: SHEAR WALLS		
TRANSVERSE: SHEAR WALLS		
SEISMIC DESIGN CATEGORY = C		(SECTION 11.6)
SEISMIC IMPORTANCE FACTOR = 1.00		(TABLE 1.5-2)
DESIGN BASE SHEAR, V =		(SECTION 12.8.1)
SEISMIC RESPONSE COEFFICIENT, Cs =		(SECTION 12.8.1.1)
RESPONSE MODIFICATION COEFFICIENT, R =		(TABLE 12.2.1)
ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE		(SECTION 12.8)

GENERAL:

1. DO NOT SCALE DRAWINGS. FOLLOW DIMENSIONS SHOWN ON PLAN OR OBTAIN ADDITIONAL INFORMATION.
2. CONTRACTOR SHALL COORDINATE AND VERIFY ALL DIMENSIONS AND ELEVATIONS SHOWN HEREIN WITH ARCHITECTURAL PLANS, SECTIONS, AND DETAILS PRIOR TO CONSTRUCTION OR MATERIAL PURCHASE. CONTRACTOR SHALL NOTIFY ARCHITECT IN WRITING OF ANY DISCREPANCIES NOTED. REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS AND ELEVATIONS NOT SHOWN HEREIN.
3. WHERE DETAIL OR SECTION IS SHOWN FOR ONE CONDITION. IT SHALL APPLY TO ALL LIKE OR SIMILAR LOCATIONS.
4. CONTRACTORS SHALL VISIT THE SITE PRIOR TO BID TO ASCERTAIN CONDITIONS WHICH MAY ADVERSELY AFFECT THE WORK OR COST THEREOF AND SHALL NOTIFY THE ARCHITECT IN WRITING PRIOR TO SUBMITTING BIDS.
5. REFERENCE TO STANDARD SPECIFICATIONS OF ANY TECHNICAL SOCIETY, ORGANIZATION, OR ASSOCIATION OR TO CODES OF LOCAL OR STATE AUTHORITIES, SHALL MEAN THE LATEST STANDARD, CODE, SPECIFICATION, OR TENTATIVE SPECIFICATION ADOPTED AT THE DATE OF TAKING BIDS, UNLESS SPECIFICALLY STATED OTHERWISE.
6. COORDINATE FLOOR SLAB LAYOUT WITH ARCHITECTURAL DRAWINGS FOR EXACT LIMITS AND DEPRESSIONS FOR AREAS TO RECEIVE ARCHITECTURAL FLOOR FINISHES COORDINATE FLOOR JOINTS AT DOORS WITH ARCHITECTURAL DOOR DETAILS. LIMITS SHOWN ON STRUCTURAL DRAWINGS ARE SCHEMATIC.
7. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION AND DETAILS OF ALL EXTERIOR WALKS, CANOPIES, RAMPS, RAMP WALLS, AND ENTRANCE SLABS NOT DETAILED HEREIN.
8. NO CHANGE IN SIZE OR DIMENSION OF ANY STRUCTURAL MEMBER SHALL BE MADE WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER OF RECORD. NO OPENING SHALL BE MADE IN ANY STRUCTURAL MEMBER WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER OF RECORD UNLESS SPECIFICALLY DETAILED ON THE CONTRACT DRAWINGS.
9. STRUCTURAL DRAWINGS ARE INTENDED TO BE USED WITH ARCHITECTURAL AND MECHANICAL DRAWINGS. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING SUCH REQUIREMENTS INTO THE SHOP DRAWINGS AND CONSTRUCTION ACTIVITIES.
10. THE USE OF REPRODUCTIONS OF CONTRACT DRAWINGS BY ANY CONTRACTOR, SUBCONTRACTOR, ERECTOR, FABRICATOR, OR MATERIAL SUPPLIER, IN LIEU OF PREPARATION OF SHOP DRAWINGS SIGNIFIES HIS ACCEPTANCE OF ALL INFORMATION SHOWN HEREON AS CORRECT AND OBLIGATES HIMSELF TO ANY JOB EXPENSE, REAL OR IMPLIED, ARISING DUE TO ANY ERRORS THAT MAY OCCUR HEREON.
11. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ALL SAFETY PRECAUTIONS AND REGULATIONS DURING THE WORK. THE ENGINEER WILL NOT ADVISE ON NOR ISSUE DIRECTION AS TO SAFETY PRECAUTIONS AND PROGRAMS.
12. CONTRACTOR HAS THE SOLE RESPONSIBILITY FOR MEANS, METHODS, SAFETY, TECHNIQUES, SEQUENCES, AND PROCEDURES OF ALL CONSTRUCTION SHOWN HEREIN. CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTIBILITY, ANALYSIS, AND ERECTION PROCEDURES, INCLUDING DESIGN AND ERECTION OF FALSE WORK, TEMPORARY BRACING, ETC. CONTRACTOR HAS THE SOLE RESPONSIBILITY TO COMPLY WITH ALL OSHA REGULATIONS.
13. THE STRUCTURE IS STABLE ONLY IN ITS COMPLETED FORM. TEMPORARY SUPPORTS REQUIRED FOR STABILITY DURING ALL INTERMEDIATE STAGES OF CONSTRUCTION SHALL BE DESIGNED, FURNISHED, AND INSTALLED BY THE CONTRACTOR.

FOUNDATIONS:

1. FOUNDATION DESIGN IS BASED ON AN ASSUMED MAXIMUM ALLOWABLE SOIL BEARING PRESSURE OF 1500 PSF. THE STRUCTURAL ENGINEER IS NOT RESPONSIBLE FOR SUBSURFACE CONDITIONS ENCOUNTERED IN THE FIELD DIFFERENT FROM THOSE ASSUMED OR DESIGNED.
2. ALLOWABLE BEARING PRESSURE SHALL BE VERIFIED BY FIELD TESTING IN ACCORDANCE WITH REQUIREMENTS OF THE PROJECT SPECIFICATIONS. IN THE ABSENCE OF SPECIFICATION REQUIREMENTS, A DYNAMIC CONE PENETROMETER TEST (ASTM STP-399) SHALL BE PROVIDED AT EACH COLUMN FOOTING EXCAVATION AND MAXIMUM 75' O.C. IN WALL FOOTINGS AND THICKENED SLABS TO VERIFY AVAILABILITY OF THE DESIGN PRESSURE INDICATED FOR A MINIMUM DEPTH OF FOUR FEET BELOW BOTTOM OF FOOTING EXCAVATIONS.
3. ALL FOOTINGS AND SLABS SHALL BEAR ON SUBGRADE COMPACTED TO A MINIMUM 95% ASTM D-1557 UNLESS MORE STRINGENT REQUIREMENTS ARE INDICATED IN PROJECT SPECIFICATIONS.
4. ALL WATER SOFTENED SOILS IN FOUNDATION EXCAVATIONS SHALL BE REMOVED PRIOR TO POURING CONCRETE. FILL OVER-EXCAVATED LIMITS WITH COMPACTED STRUCTURAL FILL OR ADDITIONAL CONCRETE.
5. ALL BOTTOM REINFORCING IN FOOTINGS AND THICKENED SLABS SHALL BE SUPPORTED WITH WHOLE CONCRETE BRICKS OR PREFABRICATED ALL PLASTIC CHAIR SUPPORT AT MAXIMUM 48" O.C. BAR SUPPORTS SHALL BE POSITIONED TO MAINTAIN NO LESS THAN 3" CLEAR TO BOTTOM OF LOWEST REINFORCING BAR.
6. ALL FOOTING, PIER AND OTHER FOUNDATION TYPE REINFORCING SHALL BE TIED IN PLACE PRIOR TO POURING CONCRETE.
7. PROVIDE 1/4" PREMOLDED EXPANSION JOINT FILLER AROUND PERIMETER OF SLABS WHERE THEY ABUT VERTICAL WALL SURFACES AND AT COLUMN ISOLATION JOINTS AS DETAILED. WHERE SLABS ARE EXPOSED TO VIEW, OMIT PEJ AND PROVIDE 30# BUILDING FELT BETWEEN VERTICAL SURFACES AND CONCRETE SLABS.
8. CONSTRUCTION JOINTS IN WALL FOOTINGS SHALL BE FORMED VERTICALLY WITH MINIMUM 2'-0" LAP HORIZONTAL REINFORCING.
9. ALL SLAB ON GRADE WIRE MESH SHALL BE PROVIDED IN FLAT SHEETS (NO ROLLS) AND SUPPORTED BY PREMANUFACTURED PLASTIC CHAIRS SPACED AT MAXIMUM 48" ON CENTER EACH WAY. PROVIDE CHAIRS MAXIMUM 8" FROM SLAB EDGES AND METAL KEY JOINTS. NO CONCRETE BRICKS ARE PERMITTED WITHIN SLABS.

CONCRETE:

1. UNLESS OTHERWISE SHOWN, THE CENTERLINES OF ALL PIERS AND COLUMN FOOTINGS SHALL BE LOCATED ON COLUMN CENTERLINES OVER.
2. UNLESS SPECIFIED OTHERWISE, CONCRETE COVER OVER REINFORCEMENT SHALL CONFORM TO THE FOLLOWING:
   A. ALL FOOTINGS AND OTHER CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH: 3"
   B. FORMED CONCRETE EXPOSED TO EARTH OR WEATHER:
      #5 BAR AND SMALLER: 1 ½"
      #6 BAR AND LARGER: 2"
   C. CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:
      1. SLABS, WALLS, JOISTS:
         #11 BAR AND SMALLER: 3/4"
         #14 AND #18 BARS: 1 ½"
      2. BEAMS, COLUMNS:
         PRIMARY REINFORCEMENT, TIES, STIRRUPS, SPIRALS: 1 ½"
3. ALL REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60, UNLESS NOTED OTHERWISE. REINFORCING INDICATED TO BE WELDED TO STRUCTURAL COMPONENTS SHALL MEET MATERIAL REQUIREMENTS OF ASTM A706.
4. PROVIDE DOWELS OF THE SAME SIZE AND NUMBER AS THE VERTICAL WALL AND COLUMN REINFORCING, UNLESS NOTED OTHERWISE.
5. REINFORCEMENT SHALL BE SPLICED ONLY AT LOCATIONS SHOWN OR NOTED ON THE STRUCTURAL DOCUMENTS, EXCEPT REINFORCING MARKED CONTINUOUS MAY BE SPLICED AT LOCATIONS DETERMINED BY THE CONTRACTOR. SPLICES AT OTHER LOCATIONS SHALL BE APPROVED IN WRITING BY THE STRUCTURAL ENGINEER.
6. ALL CONCRETE WORK SHALL CONFORM TO ACI 318 AND CRSI STANDARDS.
7. REFER TO ARCHITECTURAL DRAWINGS FOR MOLDS, GROOVES, ORNAMENTS, CLIPS, OR OTHER INSERTS REQUIRED TO BE ENCASED IN CONCRETE AND FOR EXACT LOCATIONS OF FLOOR FINISHES AND SLAB DEPRESSIONS.
8. CONSTRUCTION JOINT LOCATIONS SHALL BE APPROVED BY THE STRUCTURAL ENGINEER. NO HORIZONTAL CONSTRUCTION JOINTS ARE PERMITTED EXCEPT THOSE SHOWN ON THE STRUCTURAL DRAWINGS.
9. DEFECTIVE AREAS IN CONCRETE WORK INCLUDING, BUT NOT LIMITED TO, HONEYCOMBING, SPALLS, AND CRACKS WITH WIDTHS EXCEEDING 0.10" SHALL BE REPAIRED BY THE CONTRACTOR. THE EXTENT OF THE DEFECTIVE AREA SHALL BE DETERMINED BY THE STRUCTURAL ENGINEER.
10. NO REINFORCING SHALL BE CUT IN FIELD. ADDITIONAL REINFORCING AND THAT QUANTITY OF REINFORCING OCCURRING AT OPENINGS SHALL BE PLACED EQUALLY EACH SIDE OF OPENING AS DETAILED.
11. HOOKS IN REINFORCING ARE IN ADDITION TO LENGTHS SHOWN.
12. UNLESS NOTED OTHERWISE, DETAILING AND FABRICATION OF REINFORCING STEEL SHALL FOLLOW ACI "MANUAL OF STANDARD PRACTICE FOR DETAILING OF REINFORCED CONCRETE STRUCTURES" (ACI 315).

STEEL FRAMING:

1. ALL WIDE FLANGE STEEL SHAPES INCLUDING WT'S SHALL BE FABRICATED USING ASTM A992 GRADE 50 STRUCTURAL STEEL MATERIAL. ALL OTHER SHAPES, PLATES, BARS, ETC., SHALL BE ASTM A36 OR AS INDICATED IN SPECIFICATIONS.
2. ALL BOLTED CONNECTIONS SHALL BE MADE WITH 3/4" DIAMETER (MIN.) ASTM F3125-15 (120 KSI TENSILE STRENGTH, GRADE F1852) HIGH STRENGTH TWIST-OFF TYPE BOLTS UNLESS DETAILED OR APPROVED OTHERWISE BY ENGINEER.
3. STEEL FRAMING, INCLUDING BOLTED AND WELDED CONNECTIONS, BRACING, AND ANCHORAGES SHALL BE COMPLETE AND PLUMB PRIOR TO PLACEMENT OF DECKS.
4. TOP OF STEEL ELEVATIONS SHOWN ON FRAMING PLANS ARE MEASURED FROM FINISHED FIRST FLOOR UNLESS NOTED.
5. ALL STRUCTURAL STEEL CONSTRUCTION SHALL CONFORM TO "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS OF AISC 15TH EDITION.
6. ALL FABRICATIONS SHALL COMPLY WITH "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES", LATEST EDITIONS, AS PUBLISHED BY THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION.
7. THE STRUCTURAL DRAWINGS ARE NOT INTENDED TO REPRESENT ALL STEEL REQUIRED ON THIS PROJECT. CONTRACTOR SHALL REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL MISCELLANEOUS STRUCTURAL STEEL FRAMING NOT SHOWN ON STRUCTURAL DRAWINGS INCLUDING MISCELLANEOUS ANGLE FRAMING, BRACING, ETC.
8. ALL STRUCTURAL STEEL EXPOSED TO HEATHER SHALL BE HOT-DIPPED GALVANIZED UNLESS OTHERWISE DIRECTED BY THE ARCHITECT. WHERE WELDING IS USED ON HOT-DIPPED GALVANIZED FRAMING MEMBERS, WELDS AND ADJACENT AREAS SHALL BE COATED WITH A COLD GALVANIZING COMPOUND. CONTRACTOR TO SUBMIT DATA SHEET OF MATERIAL TO BE USED FOR ARCHITECT'S REVIEW.
9. DO NOT FIELD CUT ANY STRUCTURAL STEEL WITHOUT PRIOR REVIEW AND ACCEPTANCE OF THE ARCHITECT/ENGINEER.
10. NO SHOP SPLICE OR OTHER CONNECTION WILL BE PERMITTED UNLESS THAT SPLICE OR CONNECTION IS SHOWN ON THE SHOP DRAWINGS AND REVIEWED BY THE ENGINEER.
11. AFTER ALL FIELD WELDING IS COMPLETED, WELDS SHALL BE CLEANED OF ALL WELDING SPOILS AND RE-PRIMED. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
12. WELDING SHALL BE PERFORMED BY CERTIFIED WELDERS. PROOF OF CERTIFICATION FOR EACH WELDER PERFORMING FIELD WELDING SHALL BE AVAILABLE AT THE JOB SITE. ALL WELDERS SHALL HAVE BEEN CERTIFIED WITHIN THE PREVIOUS 12 MONTHS IN ACCORDANCE WITH SPECIFICATION REQUIREMENTS.
13. ALL ANCHORS, THRU-BOLTS OR OTHER THREADED STUDS (INCLUDING WASHERS AND NUTS) USED TO CONNECT PRESSURE TREATED BLOCKING SHALL BE HOT-DIPPED GALVANIZED.

STEEL COLUMNS:

1. STEEL COLUMN BASES ARE DESIGNED AS "UN-RESTRAINED"; THEREFORE COLUMNS MUST BE KEPT BRACED UNTIL ALL HORIZONTAL FRAMING HAS BEEN INSTALLED.
2. COLUMN ANCHOR RODS SHALL BE INSTALLED AND TIED IN PLACE PRIOR TO POURING CONCRETE. ANCHOR RODS SHALL NOT BE REPAIRED, REPLACED, OR MODIFIED BY THE CONTRACTOR WITHOUT THE APPROVAL OF THE STRUCTURAL ENGINEER.

TIMBER FRAMING:

1. THE LOCATION, NUMBER, AND DIMENSIONS OF TIMBER FRAMING ARE DESIGNED TO SHOW GENERAL ARRANGEMENT ONLY. ACTUAL SPANS, SPACINGS, ETC., SHALL BE DETERMINED FROM THE ARCHITECTURAL DETAILS.
2. SEE ARCHITECTURAL PLANS AND DETAILS FOR EDGE, SECTIONS, HEADER AND LINTEL LOCATIONS AND ALL NON-STRUCTURAL FRAMING AND TRIM.
3. ALL TIMBER FRAMING MATERIAL SHALL BE SURFACE DRIED AND USED AT 19% MAXIMUM MOISTURE CONTENT.
4. ALL STUD AND WALL FRAMING SHALL BE SYP NO. 2 MATERIAL.
5. ALL JOIST, RAFTER AND MISCELLANEOUS FRAMING SHALL BE SYP NO. 2 GRADE OR BETTER.
6. ALL FRAMING EXPOSED TO THE WEATHER OR IN CONTACT WITH MASONRY OR CONCRETE SHALL BE PRESSURE TREATED IN ACCORDANCE WITH AWPA SPECIFICATIONS.
7. ALL NAILING NOT OTHERWISE INDICATED SHALL BE IN ACCORDANCE WITH TABLE 2304.9.1 OF THE IBC 2018 BUILDING CODE.
8. PROVIDE HEADER BEAMS OF THE SAME SIZE AS JOISTS OR RAFTERS TO FRAME AROUND OPENINGS IN THE PLYWOOD DECK UNLESS DETAILED OTHERWISE.
9. BOLT HOLES SHALL BE CAREFULLY CENTERED AND DRILLED NOT MORE THAN 1/16" LARGER THAN THE BOLT DIAMETER. BOLTED CONNECTIONS SHALL BE SNUGGED TIGHT BUT NOT TO THE EXTENT OF CRUSHING WOOD UNDER WASHERS.
10. PREMANUFACTURED(MICRO-LAM OR PARALLAM) HEADERS AND BEAMS SHALL BE AS MANUFACTURED BY "TRUS-JOIST" CORPORATION OR APPROVED EQUAL. DO NOT CUT OR NOTCH MICRO-LAM OR PARALLAM MATERIAL WITHOUT THE ENGINEER'S APPROVAL.
11. PREFABRICATED METAL JOIST HANGERS, HURRICANE CLIPS, HOLD-DOWN ANCHORS, AND OTHER ACCESSORIES SHALL BE AS MANUFACTURED BY "SIMPSON STRONG-TIE COMPANY" OR APPROVED EQUAL. INSTALL ALL ACCESSORIES PER THE MANUFACTURER'S REQUIREMENTS. UNLESS OTHERWISE NOTED, ALL CONNECTORS SHALL BE HOT-DIPPED GALVANIZED (COATING G60).
12. HOLES AND NOTCHES DRILLED OR CUT INTO WOOD FRAMING SHALL NOT EXCEED REQUIREMENTS OF IBC 2018, SECTIONS 2308.8.2 AND 2308.9.10.
13. ALL PLATES, ANCHORS, NAILS, BOLTS, NUTS, WASHERS, AND OTHER MISCELLANEOUS FRAMING AND CONNECTION HARDWARE PERMANENTLY EXPOSED TO WEATHER SHALL BE HOT-DIPPED GALVANIZED.
14. ALL BOLTS SHALL CONFORM TO ASTM A307.
15. ALL ROOF DECKING SHALL BE 7/8" THICK APA RATED PLYWOOD. SECURE TO FRAMING PER SCHEDULE HEREIN OR AS SPECIFIED OTHERWISE.
16. WHERE MULTI-PLY TIMBER TRUSSES BEAR ON STUD WALLS, PROVIDE ADDITIONAL STUDS BELOW BEARING POINTS TO MATCH THE NUMBER OF PLYS ON TRUSS OVER. STUD GROUP SHALL BE ANCHORED TO GROUND FLOOR SLAB WITH A MINIMUM OF ONE SIMPSON PHD5 EACH SIDE OF STUD GROUP.

PRE-ENGINEERED TIMBER ROOF TRUSSES:

1. ALL TRUSSES SHALL BE DESIGNED, FABRICATED AND ERECTED TO SUPPORT THE MINIMUM LOADS LISTED IN THE DESIGN CRITERIA HEREIN. WIND LOADS COMPUTED BY TRUSS MANUFACTURER SHALL BE BASED ON ASCE 7-16 "COMPONENTS AND CLADDING" TYPE ANALYSIS ONLY.
2. AT EACH TRUSS BEARING LOCATION, PROVIDE GALVANIZED METAL HURRICANE CLIPS SELECTED FROM SCHEDULE HEREIN. CLIPS SELECTED SHALL BE BASED ON CALCULATED WIND UPLIFT REACTIONS INDICATED ON TRUSS MANUFACTURER SHOP DRAWINGS. SELECTED HURRICANE CLIPS SHALL BE INDICATED ON TRUSS SHOP DRAWING SUBMITTAL FOR EACH INDIVIDUAL TRUSS SUPPORT.
3. INSTALL TEMPORARY AND PERMANENT VERTICAL BRACING OR OTHER BRACES AS RECOMMENDED BY THE TRUSS MANUFACTURER AND/OR APPLICABLE REFERENCES. THE GUIDELINES SET FORTH BY THE TRUSS PLATE INSTITUTE PUBLICATION HI8-91, COMMENTARY AND RECOMMENDATIONS FOR HANDLING, INSTALLING, AND BRACING METAL PLATE CONNECT AT WOOD TRUSSES, SHALL BE THE MINIMUM REQUIREMENT.
4. SHOP DRAWINGS, CALCULATIONS, ETC., TO BE SUBMITTED FOR REVIEW. SHOP DRAWINGS SHALL PROVIDE ERECTION LAYOUT FOR TRUSSES, OUTRIGGERS, HEADERS, BRACING, ETC. REFER TO ARCHITECTURAL AND STRUCTURAL PLANS FOR LOCATIONS OF SUPPORTS.
5. CALCULATIONS AND DRAWINGS SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF GEORGIA.
6. TRUSS WEB TO CHORD CONNECTIONS SHALL BE MADE WITH APPROVED GALVANIZED STEEL TRUSS CONNECTION PLATES MEETING ALL APPLICABLE REQUIREMENTS OF THE TRUSS PLATE INSTITUTE OF THE LATEST ADOPTION.
7. MAXIMUM TRUSS LIVE LOAD DEFLECTIONS SHALL NOT EXCEED L/240. TRUSS BRIDGING SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION AND APPLICABLE REFERENCES NOTED HEREIN.
8. TRUSSES ARE NOT DESIGNED TO SUPPORT CONCENTRATED LOADS DUE TO ANY MECHANICAL ROOF-TOP UNITS OR OTHER SUSPENDED TYPE UNITS UNLESS SPECIFICALLY SHOWN ON CONTRACT DRAWINGS.
9. TRUSS SHOP DRAWINGS INCLUDING LATERAL BRACING DETAILS SHALL BE AVAILABLE ON THE JOBSITE DURING TIMES OF INSPECTION AND SHALL BEAR CLEAR INDICATION THAT THEY HAVE BEEN RECEIVED AND APPROVED BY THE PROJECT STRUCTURAL ENGINEER OF RECORD.
10. TRUSSES ARE TO BE STORED OFF THE GROUND IN A MANNER WHICH WILL NOT DAMAGE OR WARP THE TRUSSES PRIOR TO ERECTION.
11. FIELD REPAIR OF DAMAGED TRUSSES MUST BE APPROVED IN WRITING BASED ON FIELD REPAIR SKETCHES PREPARED BY THE TRUSS MANUFACTURER.
12. CONTRACTOR SHALL BE RESPONSIBLE FOR BRACING OF ALL TRUSSES DURING CONSTRUCTION TO PREVENT RACKING AND/OR OTHER LATERAL MOVEMENT AS RECOMMENDED BY THE TRUSS MANUFACTURER SHOP DRAWING DETAILS AND APPLICABLE REFERENCES.
13. TRUSS MEMBERS AND COMPONENTS SHALL NOT BE CUT, NOTCHED, DRILLED, NOR OTHERWISE ALTERED IN ANY WAY WITHOUT WRITTEN APPROVAL OF THE ENGINEER OF RECORD.
14. WHERE SCISSOR TYPE TRUSSES ARE USED, REFER TO NOTES HEREIN FOR ADDITIONAL REQUIREMENTS.
15. ALL HARDWARE REQUIRED FOR CONNECTIONS BETWEEN PRE-ENGINEERED TRUSS COMPONENTS INCLUDING TRUSS TO TRUSS OR TRUSS TO TRUSS GIRDER CONNECTIONS SHALL BE DESIGNED AND SPECIFIED BY THE TRUSS MANUFACTURER.
16. TRUSSES SHALL BE DESIGNED SUCH THAT THE MINIMUM SPACING OF BOTTOM CHORD BRACES IS 6'-0" UNLESS A RIGID CEILING IS SHOWN ON ARCHITECTURAL DRAWINGS.
17. PROVIDE 2X FRAMING BETWEEN TRUSS TOP CHORDS AT ALL RIDGE/VALLEY LOCATIONS WHERE TRUSS MEMBER DOES NOT OCCUR.

DEFERRED SUBMITTALS:
THE FOLLOWING SUBMITTALS SHALL BE PROVIDED TO THE BUILDING DEPARTMENT IN ACCORDANCE WITH 2018 IBC, SECTION 107.3.4.1 AFTER BEING REVIEWED BY THE ARCHITECT/ENGINEERS:
PRE-ENGINEERED TIMBER ROOF TRUSSES

SPECIAL STRUCTURAL INSPECTIONS:

A. SPECIAL INSPECTIONS:
   1. SPECIAL STRUCTURAL TESTS AND INSPECTIONS SHALL BE PERFORMED ON THIS PROJECT IN ACCORDANCE WITH THE REQUIREMENTS OF CHAPTER 17 OF THE IBC 2018 BUILDING CODE AND ALL GEORGIA STATE AMENDMENTS.
   2. SPECIAL STRUCTURAL TESTS AND INSPECTIONS SHALL BE PERFORMED BY AN AGENCY SELECTED BY THE OWNER WHO MEETS ALL OF THE REQUIREMENTS FOR APPROVAL INDICATED IN IBC 2018 SECTION 1704. SPECIAL INSPECTORS SHALL BE QUALIFIED PERSONS WHO SHALL DEMONSTRATE COMPETENCE, TO THE SATISFACTION OF THE BUILDING OFFICIAL, FOR INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION.
   3. THE CONTRACTOR SHALL COORDINATE THE INSPECTION SERVICES IN ACCORDANCE WITH THE PROGRESS OF THE WORK. THE CONTRACTOR SHALL PROVIDE SUFFICIENT NOTICE TO THE INSPECTOR TO ALLOW PROPER SCHEDULING OF PERSONNEL.
   4. THE COSTS OF THE SPECIAL INSPECTOR'S SERVICES SHALL BE PAID FOR BY THE OWNER. COSTS OF INSPECTION SERVICES WHICH ARE EXEMPTED UNDER CHAPTER 17 AND SPECIFIED IN THE PROJECT SPECIFICATIONS, SHALL BE PAID FOR BY THE OWNER.

B. REPORTS:
   1. SPECIAL INSPECTORS SHALL KEEP A RECORD OF ALL INSPECTIONS PERFORMED. COPIES OF ALL INSPECTIONS SHALL BE FURNISHED TO THE BUILDING OFFICIAL, THE ARCHITECT, AND THE EOR WITHIN 48 HOURS OF THE INSPECTION.
   2. REPORTS SHALL INDICATE THAT THE WORK WAS PERFORMED AND CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. WORK WHICH DOES NOT CONFORM TO THE CONTRACT DOCUMENTS SHALL BE IDENTIFIED IN THE REPORT AND SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR.
   3. INTERIM REPORTS OF INSPECTIONS DOCUMENTING REQUIRED SPECIAL INSPECTIONS INCLUDING ANY DISCREPANCIES NOTED IN THE INSPECTIONS SHALL BE SUBMITTED TO THE BUILDING OFFICIAL, THE ARCHITECT, AND THE EOR PRIOR TO COMPLETION OF THE STRUCTURAL SYSTEMS BUT AT A FREQUENCY NOT TO EXCEED 60 DAYS.
   IF ITEMS IN THE SPECIAL INSPECTION SCHEDULE ARE NOT COMPLETED WHEN REQUIRED OR, IN THE OPINION OF THE SPECIAL INSPECTOR ARE FOUND TO BE NOT APPLICABLE, THE ENGINEER OF RECORD SHOULD BE NOTIFIED IMMEDIATELY TO DISCUSS/RESOLVE SAID ISSUES. **THE CONTRACTOR MUST NOT WAIT UNTIL ISSUANCE OF THE FINAL REPORT TO BRING THIS TO THE ATTENTION OF THE DESIGN PROFESSIONALS.**

C. REQUIRED SPECIAL INSPECTIONS:

IBC SECTION	DESCRIPTION OF WORK	SPECIAL INSPECTION REQUIRED YES	NO	REMARKS
1704.2.5	INSPECTION OF FABRICATORS	X		1
1705.2	STEEL CONSTRUCTION	X		2
1705.3	CONCRETE CONSTRUCTION	X		3
1705.4	MASONRY CONSTRUCTION		X	
1705.5	WOOD CONSTRUCTION		X	
1705.6	SOILS	X		4
1705.7	DRIVEN DEEP FOUNDATION		X	
1705.8	CAST-IN-PLACE DEEP FOUNDATIONS		X	
1705.9	HELICAL PILE FOUNDATIONS		X	
1705.10	FABRICATED ITEMS		X	
1705.11	WIND RESISTANCE		X	
1705.12	SEISMIC RESISTANCE		X	
1705.13	TESTING AND QUALIFICATIONS FOR SEISMIC RESISTANCE		X	
1705.14	SPRAYED FIRE-RESISTANT MATERIALS		X	
1705.15	MASTIC AND INTUMESCENT COATINGS		X	
1705.16	EXTERIOR INSULATION AND FINISH SYSTEMS (EIFS)		X	

REMARKS:
1. WHERE FABRICATION OF STRUCTURAL LOAD BEARING ELEMENTS (I.E. JOISTS) ARE BEING PERFORMED ON THE PREMISES OF A FABRICATOR'S SHOP, SPECIAL INSPECTIONS ARE REQUIRED.
2. STEEL SPECIAL INSPECTION: CONTINUOUS AND PERIODIC INSPECTIONS, AS DEFINED BY SECTION 202 OF THE IBC 2018 BUILDING CODE, SHALL BE PERFORMED BY THE SPECIAL INSPECTION AGENCY IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 1705.2,QUALITY ASSURANCE INSPECTION REQUIREMENTS OF AISC 360 AND TABLE 1705.2.3.
3. CONCRETE SPECIAL INSPECTION: CONTINUOUS AND PERIODIC INSPECTIONS, AS DEFINED BY SECTION 202 OF THE IBC 2018 BUILDING CODE, SHALL BE PERFORMED BY THE SPECIAL INSPECTION AGENCY IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 1705.3 AND TABLE 1705.3.
4. SOILS SPECIAL INSPECTION: INSPECTION OF THE EXISTING SITE SOIL CONDITIONS, FILL PLACEMENT AND LOAD BEARING REQUIREMENTS SHALL BE PERFORMED BY THE SPECIAL INSPECTION AGENCY IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 1705.6 AND TABLE 1705.6.

STRUCTURAL LEGEND

SYMBOLS

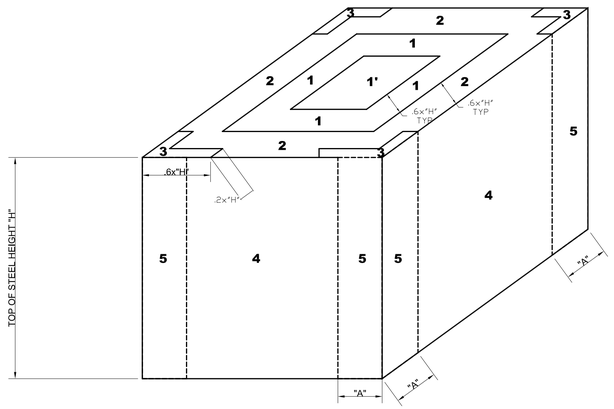
- FOOTING
- UNREINFORCED CONCRETE MASONRY
- REINFORCED CONCRETE MASONRY
- CONCRETE
- BOND BEAM
- P_2 P_3 REINF. MASONRY PIERS
- DROP SLAB TO RECEIVE FLOOR FINISH
- THICKENED SLAB
- FJ FLOOR JOINT
- WFJ WALL FLOOR JOINT
- SJ SAWN JOINT
- TJ 1" DEEP TOOLED JOINT
- CONCRETE SLAB TURNDOWN
- S 2" SLOPE (DIRECTION AND DROP)
- VERTICAL STEP IN WALL FOOTING
- T.O.S. 12'-6" TOP OF STEEL ELEVATION
- (96.50) TOP OF FOOTING ELEVATION
- R HSB ADD #4x4'-0" IN CENTERLINE OF SLAB HIGH STRENGTH BOLT
- S JOIST BOTTOM CHORD STRUT
- ROOF DRAIN
- FRAME AROUND ROOF DECK OPENING
- BEAM TO COLUMN MOMENT CONNECTION

ABBREVIATIONS

W/	WITH
DBL.	DOUBLE
BOT.	BOTTOM
DJ	DOUBLE JOIST
SIM	SIMILAR
T/O	THROUGHOUT
U.N.	UNLESS NOTED
P.E.J.	PRE-MOLDED EXPANSION JOINT
GA.	GAUGE
E.W.	EACH WAY
O.C.	ON CENTER
CL	CLEARANCE
FD	FLOOR DRAIN
A.F.F.	AT FINISHED FLOOR
LLV	LONG LEG VERTICAL
SLV	SHORT LEG VERTICAL
EJ	EXPANSION JOINT
MBM	METAL BUILDING MANUFACTURER
MBP	METAL BUILDING PURLINS
O.H.	OPPOSITE HAND
PB	PARALAM BEAM
ML	MICROLAM BEAM
RS	ROUGH SAWN
P.T.	PRESSURE TREATED
P.E.	PRE-ENGINEERED

STRUCTURAL SHEET INDEX

S0.1	STRUCTURAL NOTES
S0.2	WIND PRESSURE SCHEDULES
S1.1	FOUNDATION PLAN
S2.1	ROOF FRAMING PLAN
S4.1	TYPICAL DETAILS
S5.1	SPECIFICATIONS
S5.2	SPEC



COMPONENTS AND CLADDING - WALLS

qh 26.5 psf

ZONE	At (sqft)	GCpf+	gCpf-	MAX + (psf)	MIN - (psf)
4	10	0.90	-0.99	28.6	-31.0
4	20	0.84	-0.95	27.0	-29.8
4	50	0.78	-0.88	25.5	-28.1
4	100	0.75	-0.84	24.6	-27.0
4	200	0.69	-0.78	23.1	-25.5
4	500	0.63	-0.72	21.5	-23.9
4	1000	0.63	-0.72	21.5	-23.9
5	10	0.90	-1.26	28.6	-38.2
5	20	0.84	-1.15	27.0	-35.3
5	50	0.78	-1.04	25.5	-32.2
5	100	0.75	-0.96	24.6	-30.3
5	200	0.69	-0.84	23.1	-27.0
5	500	0.63	-0.72	21.5	-23.9
5	1000	0.63	-0.72	21.5	-23.9

COMPONENTS AND CLADDING - ROOF

qh 26.5 psf

ZONE	At (sqft)	GCpf+	gCpf-	GCpf- Overhang	MAX + (psf)	MIN - (psf)	Overhang (psf)
1'	10	0.30	-0.90	-1.70	16.0	-28.6	-49.8
1'	20	0.28	-0.90	-1.65	16.0	-28.6	-48.5
1'	50	0.23	-0.90	-1.63	16.0	-28.6	-47.8
1'	100	0.20	-0.90	-1.60	16.0	-28.6	-47.2
1'	200	0.20	-0.75	-1.30	16.0	-24.6	-39.2
1'	500	0.20	-0.55	-1.00	16.0	-19.3	-31.3
1'	1000	0.20	-0.40	-1.00	16.0	-16.0	-31.3
1	10	0.30	-1.70	-1.70	16.0	-49.8	-49.8
1	20	0.28	-1.60	-1.65	16.0	-47.2	-48.5
1	50	0.23	-1.40	-1.63	16.0	-41.9	-47.8
1	100	0.20	-1.30	-1.60	16.0	-39.2	-47.2
1	200	0.20	-1.20	-1.35	16.0	-36.6	-40.5
1	500	0.20	-1.00	-1.00	16.0	-31.3	-31.3
1	1000	0.20	-1.00	-1.00	16.0	-31.3	-31.3
2	10	0.90	-2.30	-2.30	28.6	-65.7	-65.7
2	20	0.84	-2.15	-2.10	27.0	-61.7	-60.4
2	50	0.78	-1.95	-1.80	25.5	-56.4	-52.5
2	100	0.75	-1.80	-1.60	24.6	-52.5	-47.2
2	200	0.69	-1.60	-1.40	23.1	-47.2	-41.9
2	500	0.63	-1.40	-1.10	21.5	-41.9	-33.9
2	1000	0.63	-1.40	-1.10	21.5	-41.9	-33.9
3	10	0.90	-2.30	-2.30	28.6	-65.7	-65.7
3	20	0.84	-2.15	-2.10	27.0	-61.7	-60.4
3	50	0.78	-1.95	-1.80	25.5	-56.4	-52.5
3	100	0.75	-1.80	-1.60	24.6	-52.5	-47.2
3	200	0.69	-1.60	-1.40	23.1	-47.2	-41.9
3	500	0.63	-1.40	-1.10	21.5	-41.9	-33.9
3	1000	0.63	-1.40	-1.10	21.5	-41.9	-33.9

COMPONENTS AND CLADDING ROOF AND WALL PRESSURES

NOTES:

1. ALL WIND LOADING SHOWN HEREIN ARE UNFACTORED BASED ON ASCE-7-16 BASIC WIND SPEED (3 SECOND GUST) WHICH IS EQUIVALENT TO IBC ULTIMATE DESIGN WIND SPEED.
2. FOR STRENGTH DESIGN, USE WIND PRESSURES IN THE FOLLOWING COMBINATIONS:
   - 1.2D + 1.6Lr +0.5W
   - 1.2D + 1.0W + 0.5Lr
   - 0.9D + 1.0W
3. FOR ALLOWABLE STRESS DESIGN, USE WIND PRESSURES IN THE FOLLOWING COMBINATIONS:
   - D + 0.6W
   - D+ 0.45W + 0.75Lr
   - 0.6D + 0.6W
   - D = DEAD LOAD
   - Lr = ROOF LIVE LOAD
   - W = WIND LOAD
4. OPTIONALLY, COMPONENTS AND CLADDING MANUFACTURES MAY CALCULATE WIND PRESSURES AND GEOMETRY FOR ALL ZONES USING APPLICABLE PROCEDURES IN ASCE7-16. ALL DESIGNS SHALL BE COMPLETED USING THE LOAD COMBINATIONS IN CHAPTER 2 OF ASCE 7-16 AND CHAPTER 16 OF IBC.

GEOMETRY

WIDTH(FT)	61
LENGTH (FT)	151
A (FT)	6.1
0.6H (FT)	10.8
0.2H (FT)	3.6

COMPONENTS AND CLADDING - COMBINED WINDWARD AND LEEWARD PARAPET

qzp 26.5 psf

ZONE	At (sqft)	GCpf+	gCpf-	MAX + (psf)	MIN - (psf)
4	10	3.20	-1.89	84.8	-50.1
4	20	2.99	-1.78	79.2	-47.2
4	50	2.73	-1.67	72.4	-44.1
4	100	2.55	-1.58	67.5	-42
4	200	2.29	-1.48	60.8	-39.1
4	500	2.03	-1.35	53.8	-35.8
4	1000	2.03	-1.35	53.8	-35.8
5	10	3.20	-2.16	84.8	-57.2
5	20	2.99	-1.99	79.2	-52.7
5	50	2.73	-1.82	72.4	-48.2
5	100	2.55	-1.71	67.5	-45.3
5	200	2.29	-1.53	60.8	-40.5
5	500	2.03	-1.35	53.8	-35.8
5	1000	2.03	-1.35	53.8	-35.8

MONOSLOPE ROOF SURFACE PRESSURES

DPR ARCHITECTURE
D'ARCANGELO PALMER RULE

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P.O. BOX 1382
912-764-6288

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BUILDING #2
COLDBROOK PLAZA
OLD RICHMOND ROAD
PORT WENTWORTH, GA

BID

PROJECT NUMBER: 2367
PROJECT DATE: 10/01/24
DRAWN BY: H. Saussy III
APPROVED BY: H. Saussy III

SCHEDULE OF REVISIONS

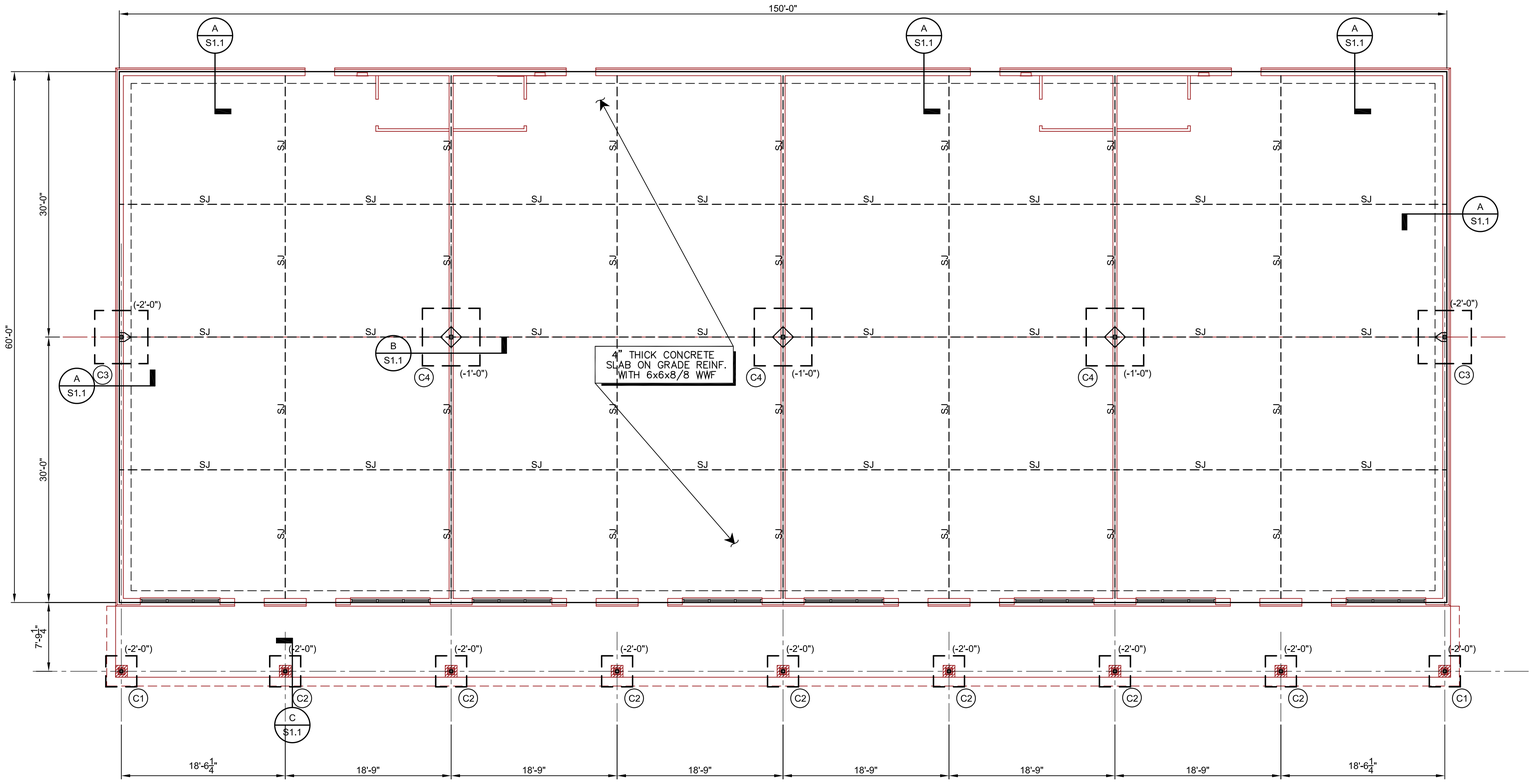
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WIND PRESSURE SCHEDULES

S0.2

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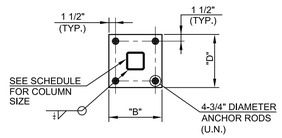


FOUNDATION PLAN

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

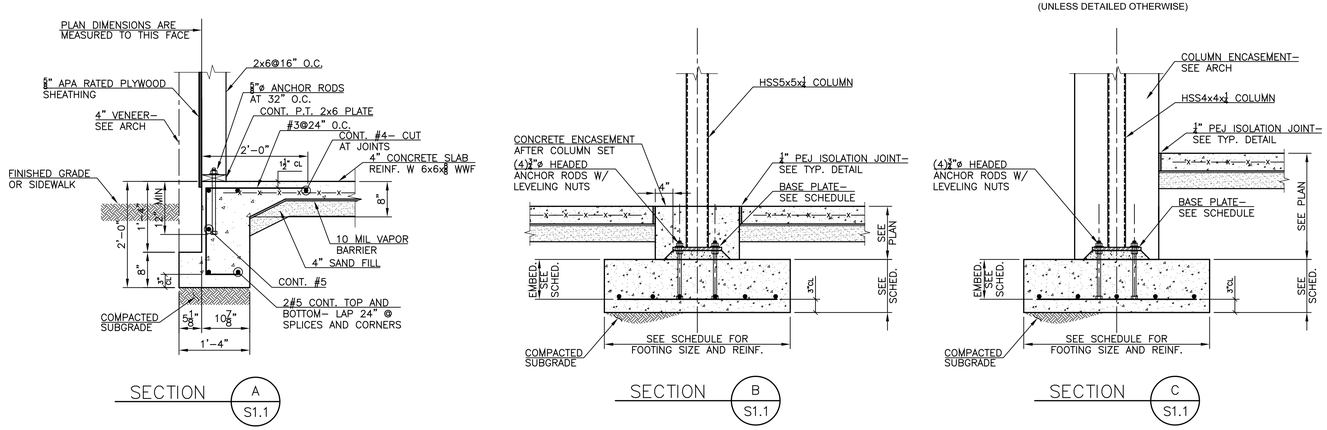
COLUMN AND FOUNDATION SCHEDULE

MARK	COLUMN			FOOTING				ANCHOR RODS			NOTES
	LOADS (KIPS)	SIZE	BASE PLATE	SIZE	DEPTH	REINF. E.W.	REINF. TOP/BOT?	No.	DIAM.	EMBEDMENT LENGTH	
C1	2	HSS4x4x1/4	10"x5/8"x10"	3'-6"x3'-6"	12"	5#4	NO	4	3/4"Ø	9"	
C2	4	HSS4x4x1/4	10"x5/8"x10"	3'-6"x3'-6"	12"	5#4	NO	4	3/4"Ø	9"	
C3	24	HSS5x5x1/4	11"x3/4"x11"	6'-0"x6'-0"	12"	7#5	NO	4	3/4"Ø	9	
C4	48	HSS5x5x1/4	11"x3/4"x11"	6'-6"x6'-6"	14"	7#5	YES	4	3/4"Ø	10"	



TYPICAL COLUMN BASE PLATE DETAIL

(UNLESS DETAILED OTHERWISE)



DPR ARCHITECTURE
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BUILDING #2
COLDBROOK PLAZA
OLD RICHMOND ROAD
PORT WENTWORTH, GA

BID

PROJECT NUMBER: 2367
PROJECT DATE: 10/01/24
DRAWN BY: H. Saussy III
APPROVED BY: H. Saussy III

SCHEDULE OF REVISIONS

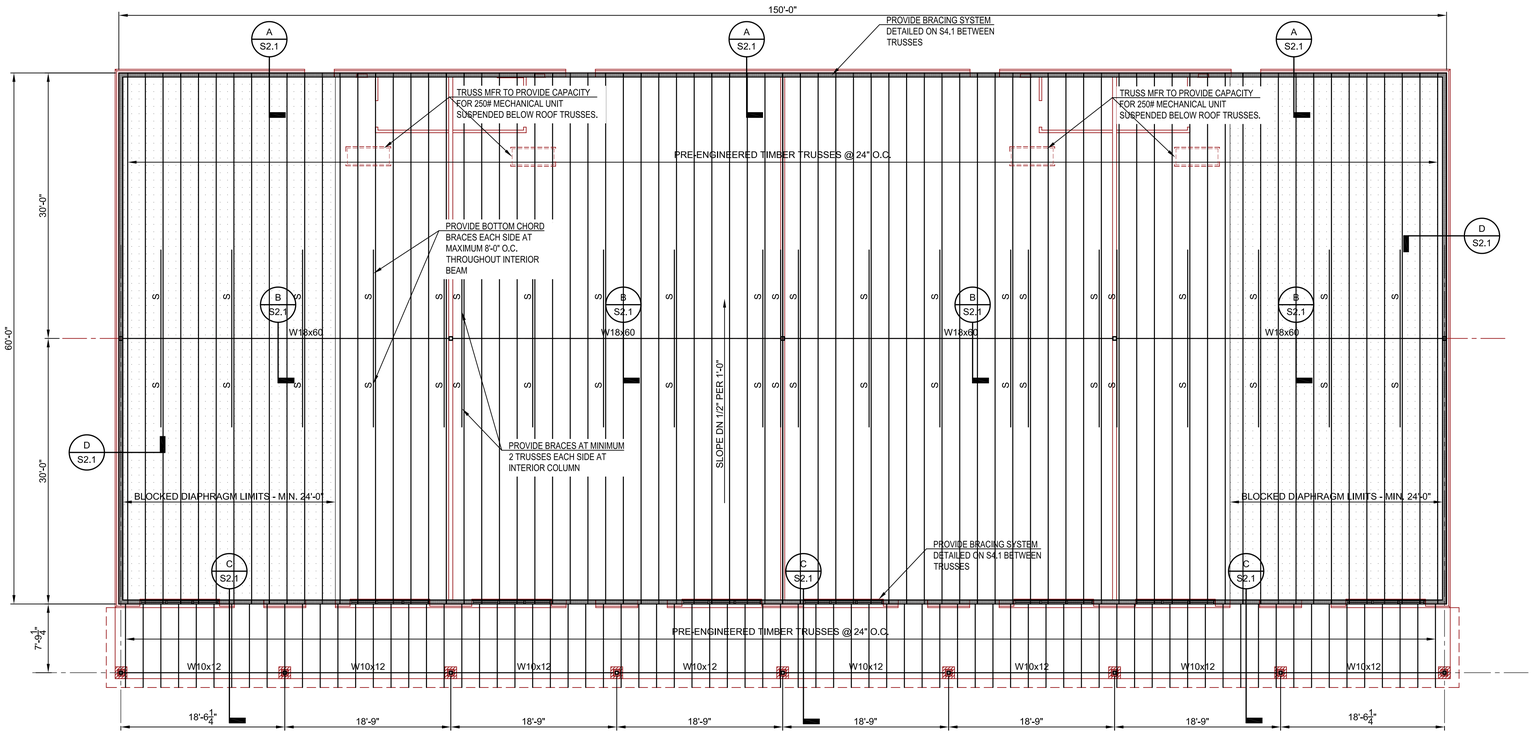
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FOUNDATION PLAN

S1.1

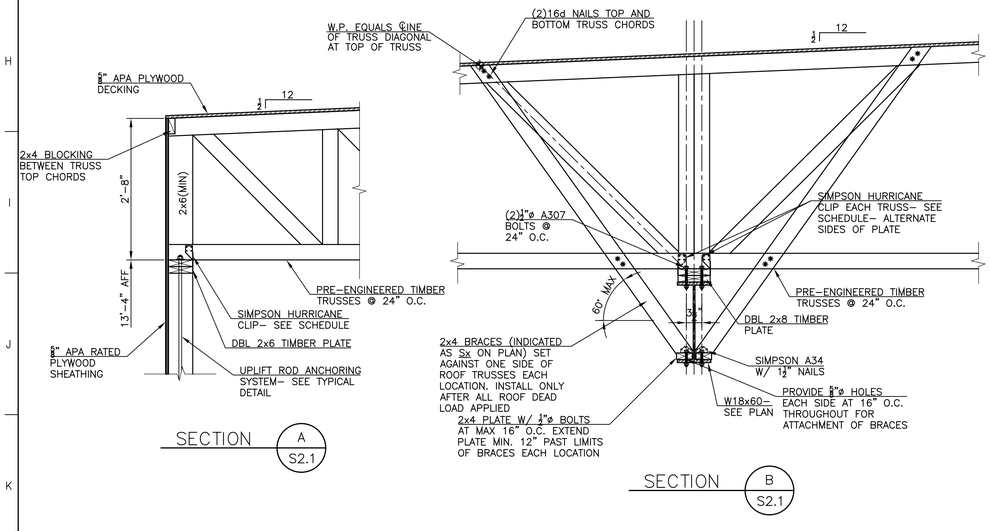
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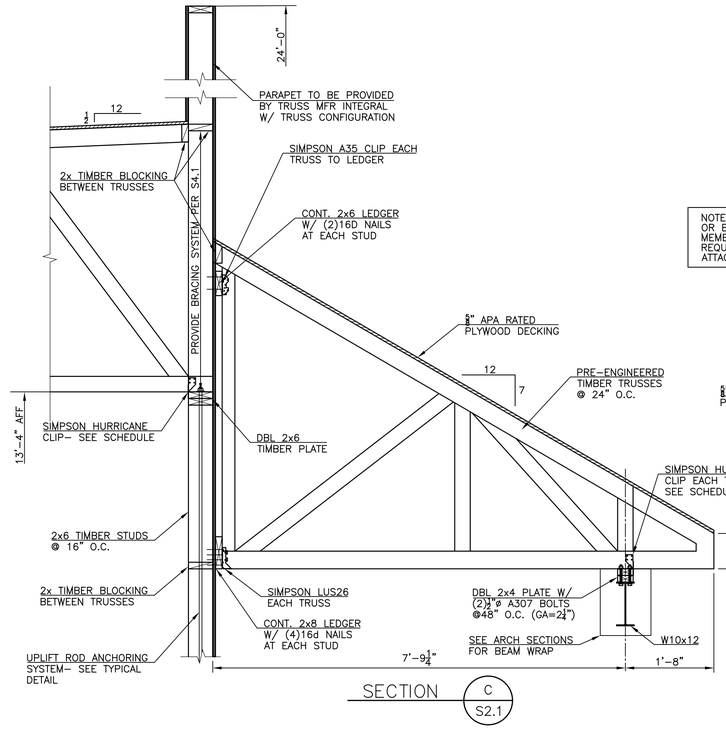
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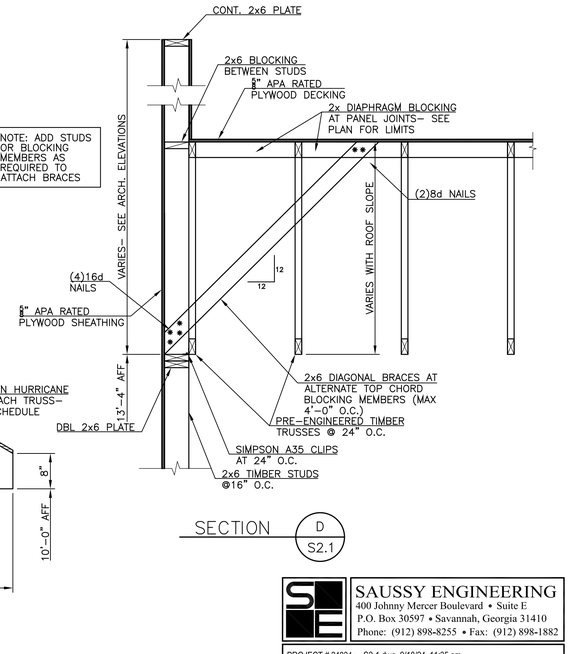
ROOF FRAMING PLAN

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





NOTE: ADD STUDS OR BLOCKING MEMBERS AS REQUIRED TO ATTACH BRACES



DPR ARCHITECTURE
D'ARCANGELO PALMER RULE

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BUILDING #2
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SCHEDULE OF REVISIONS

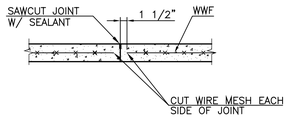
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ROOF FRAMING PLAN

S2.1

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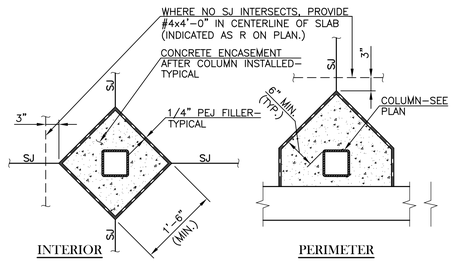
TYPICAL SAWN JOINT DETAIL

(INDICATED AS __SJ___ON PLANS)

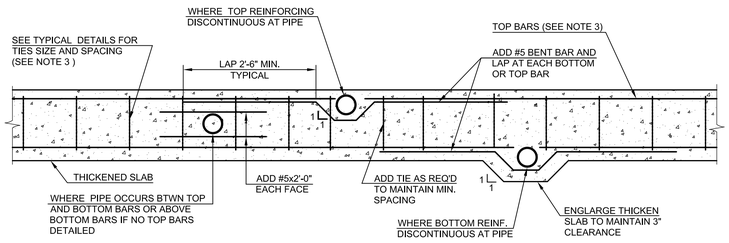
SAWN JOINT CONSTRUCTION

SAWN JOINTS, SHALL BE CONSTRUCTED AS FOLLOWS:

1. SAWN JOINTS SHALL ONLY OCCUR AT DESIGNATED LOCATIONS WHERE SHOWN ON FOUNDATION PLAN.
2. JOINT DEPTHS SHALL BE A MINIMUM OF 1/4 OF THE SLAB DEPTH BUT NOT LESS THAN 1".
3. JOINTS SHALL BE SAWN AS SOON AS CONCRETE IS HARD ENOUGH TO SUPPORT THE WEIGHT OF THE EQUIPMENT TO BE USED WITHOUT RAVELING THE CONCRETE SURFACE BUT NO LATER THAN 12 HOURS AFTER POURING OF SLAB.
4. A CONSTRUCTION JOINT, FORMED USING A PREFORMED METAL KEY JOINT, MAY BE SUBSTITUTED FOR A SAWN JOINT AT THE CONTRACTOR'S OPTION.



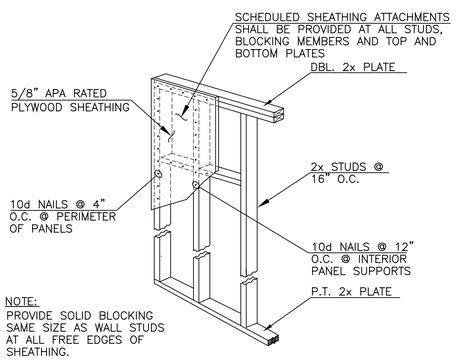
TYP. COLUMN ISOLATION JOINT DETAIL @ CONCRETE SLABS



DETAIL AT PIPE PENETRATIONS THICKENED SLAB

NOTES:

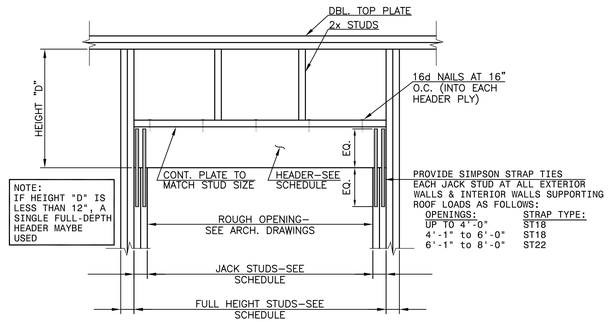
1. CONTRACTOR SHALL COORDINATE AND IDENTIFY ALL PIPE LOCATIONS PRIOR TO POURING THICKENED SLABS AND MAKE NECESSARY ADJUSTMENTS AS DETAILED.
2. PROVIDE PIPE SLEEVES AT ALL PIPE PENETRATIONS.
3. WHERE THICKENED SLAB SCHEDULED WITHOUT TOP BARS AND TIES, NO ADDITIONAL TIES OR TOP BARS REQUIRED WHERE PIPE PENETRATES OCCUR ABOVE BOTTOM BARS. ADD #5x2'-0" TOP AND BOTTOM & EACH FACE OF PENETRATION.



SCHEMATIC EXTERIOR WALL ELEVATION

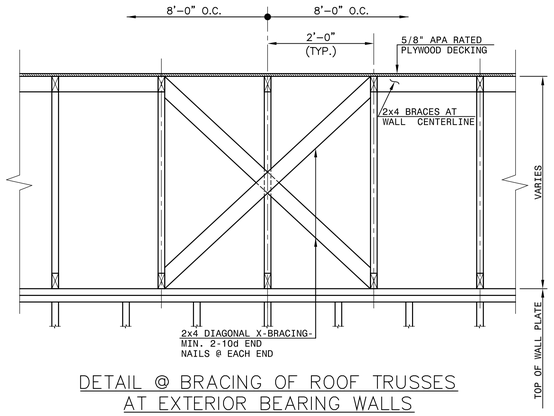
HEADER SCHEDULE

	SPAN	SECTION	SUPPORTING ROOF OVER	JAMB STUDS	
				EA. END JACK	FULL HGT
2x4 STUDWALL	0' to 4'-0"		(2)-2x6 W/ 1/2" PLYWOOD PLATE	SINGLE	SINGLE
	4'-1" to 6'-0"		(2)-2x10 W/ 1/2" PLYWOOD PLATE	DOUBLE	DOUBLE
	6'-1" to 8'-0"		(2)-2x12 W/ 1/2" PLYWOOD PLATE	DOUBLE	DOUBLE
2x6 STUDWALL	0' to 4'-0"		(3)-2x8 W/ 1/2" PLYWOOD PLATES	SINGLE	SINGLE
	4'-1" to 6'-0"		(3)-2x10 W/ 1/2" PLYWOOD PLATES	DOUBLE	DOUBLE
	6'-1" to 9'-0"		(3) 1 3/4"x11 1/4" MICROLAM BEAMS	DOUBLE	DOUBLE



TYPICAL DETAIL AT FRAMED WALL OPENINGS

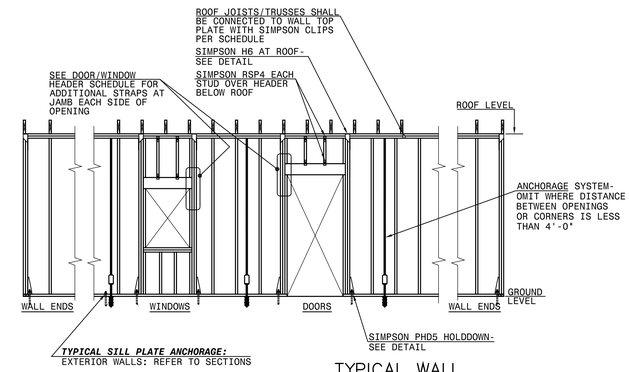
N.T.S.



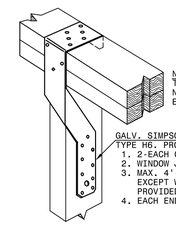
DETAIL @ BRACING OF ROOF TRUSSES AT EXTERIOR BEARING WALLS

NOTE:

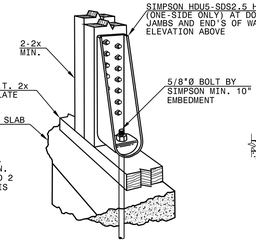
1. BRACING TO BE PROVIDED AT FRONT AND REAR LOAD-BEARING TIMBER EXTERIOR WALLS.
2. BRACING SHOWN IS IN ADDITION TO THAT REQUIRED BY PRE-ENG. TIMBER TRUSS MFR.



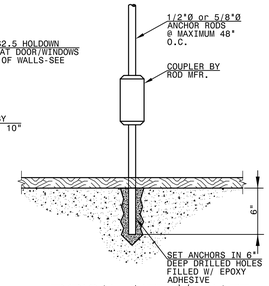
TYPICAL WALL STRAPPING DETAIL



TYPICAL WALL TOP PLATE TO STUD CONNECTION



TYPICAL HOLDDOWN DETAIL @ GROUND FLOOR



TYPICAL INTERMEDIATE ANCHORAGE RODS

TYPICAL STRAPPING DETAILS

THIS DETAIL APPLIES TO:

1. ALL EXTERIOR WALLS

STEEL ROD ANCHORING SYSTEM:

1. STEEL ANCHORING ROD SYSTEM SHALL BE SELECTED FROM ONE OF THE MANUFACTURERS:
   A. SIMPSON STONG-TIE "STONG-ROD" SYSTEM
   B. CLP SYSTEMS "TIE DOWN SYSTEMS"
2. RODS SHALL BE PROVIDED AND ADEQUATELY SIZED TO RECEIVE WIND UPLIFT LOADS FOR ROOF FRAMING. SIZE AND SPACING OF BOLTS SHALL BE DETERMINED BY MFR. BASED ON COORDINATION OF UPLIFT LOADS PROVIDED BY TRUSS MFR. SHOP DRAWINGS. SPACING OF RODS SHALL NOT EXCEED 48" O.C.
3. CONTRACTOR SHALL SUBMIT COMPLETE LAYOUT OF SYSTEM SHOWING LOCATIONS AND SIZES. PROVIDE TYPICAL DETAILS OF SYSTEM WHICH SHOWS ALL CONNECTION HARDWARE, COUPLERS, ETC.

PLYWOOD SHEATHING NAILING SCHEDULE

LOCATION	AT EACH PANEL EDGE	AT INTERIOR SUPPORTS
ROOF SHEATHING	10d @ 6"	10d @ 12"

PRE-ENGINEERED TIMBER ROOF TRUSS HURRICANE CLIP SCHEDULE

LOAD (LBS.)	SIMPSON CLIP TYPE	NOTES
0#-600#	H2.5A	-
601#-1140#	H10A	-
1141#-1465#	H14	-

NOTES:

1. WHERE NET UPLIFT VALUES AT ANY TRUSS REACTION EXCEEDS 1350#, CLIP SHALL BE AS RECOMMENDED BY SIMPSON MFR. OR AS SPECIFIED BY THE TRUSS MFR.
2. NAILS SHALL BE AS SPECIFIED BY SIMPSON.
3. SELECTION OF HURRICANES CLIPS SHALL BE DETERMINED USING THE ABOVE TABLE BASED ON NET UPLIFT REACTIONS SHOWN ON TRUSS MFR. DRAWINGS.

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GEORGIA REGISTERED No. 030332 STRUCTURAL ENGINEER W. HUNTER SAUSSY, III
Not Valid Unless Signed

BUILDING #2
COLDBROOK PLAZA
OLD RICHMOND ROAD
PORT WENTWORTH, GA

BID

PROJECT NUMBER: 2367
PROJECT DATE: 10/01/24
DRAWN BY: H. Saussy III
APPROVED BY: H. Saussy III

SCHEDULE OF REVISIONS

#	DATE

TYPICAL DETAILS

S4.1

SECTION 03300
CAST-IN-PLACE CONCRETE

PART 1 - GENERAL

1.01 WORK INCLUDED

A. Provide all cast-in-place concrete, complete, in place, as indicated on the Drawings, specified herein, and required for the complete installation.

1.02 RELATED WORK

A. Tests for Concrete Materials:
1. Portland Cement shall be sampled and tested to determine the properties in accordance with ASTM C 150.
2. Aggregates shall be sampled and tested in accordance with ASTM C 33 (normal weight).

B. Submit written reports to the Architect for each material sampled and tested, prior to the start of work. Provide the project identification name and number, date of report, name of contractor, name of concrete testing service, source of concrete aggregates, material manufacturer and brand name for manufactured materials, values specified in the referenced specification for each material, and test results. Indicate whether or not material is acceptable for intended use.

C. Supervision: All reinforced concrete construction shall be performed under the personal supervision of the contractor's superintendent. This superintendent shall keep a record of all concrete poured on the job. The record shall show in detail the area poured, the time and date of the pour and weather conditions which existed at the time of the pour. Upon completion of the work, this record shall be turned over to the Architect.

1.03 SUBMITTALS

A. General: Comply with provisions of General Conditions.

B. Manufacturer's Data; Concrete Work: Submit manufacturer's product data with application and installation instructions for proprietary materials and items, including reinforcement and forming accessories, admixtures, patching compounds, waterstops, joint systems, chemical floor hardeners and dry-shake finish materials to the Architect.

C. Shop Drawings; Concrete Reinforcement:

1. Shop drawings shall be submitted by the Contractor to the Architect and review action received prior to fabrication. When corrections are required, copies will be returned noting such. Drawings shall then be corrected and resubmitted until final review action is received.

D. Laboratory test results for concrete materials and mix designs. All mix designs shall be prepared by an independent testing labaoratory.

PART 2 - PRODUCTS

2.01 REINFORCING MATERIALS

A. Reinforcing Bars:

1. Reinforcing: size #3 to #18: ASTM A 615 "Standard Specifications for Deformed and Plain Billet-Steel Bars for Concrete Reinforcement" Grade 60, Deformed. ASTM A 619 "Standard Specification for Rail-Steel and Axle-Steel Deformed Bars for Concrete Reinforcement", Grade 60, Deformed.
2. Reinforcing: size 1/4" dia. (#2): ASTM A 1064. Equivalent to size W5 (0.252" at Dia.).

B. Steel Wire: ASTM A 1064, plain, cold-drawn steel.

C. Welded Wire Fabric: ASTM A 1064.

D. Supports for Reinforcement:

1. General: Provide supports for reinforcement including bolsters, chairs and spacers for spacing, supporting and fastening reinforcing bars and welded wire fabric in place. Use wire bar type supports complying with CRSI recommendations, unless otherwise indicated on the drawings. Wood, brick and other devices will not be acceptable unless specifically noted herein.

2.02 CONCRETE MATERIALS

A. Portland Cement: ASTM C 150, Type 1. Use only one brand of cement throughout the project.

B. Minimum Properties: Design mixes to provide normal weight concrete with the following minimum properties:

1. Foundations: 3000 psi 28-day compressive strength; non-air entrained.
2. Interior Slab on Grade: 3000 psi 28-day compressive strength; non-air entrained.
3. Exterior Slab on Grade: 4500 psi 28-day compressive strength; air entrained (Class F2).
4. Interior formed concrete: 4000 psi 28-day compressive stregth:air entrained
5. Concrete Masonry Grout: 2500 psi, 28-day compressive strength
6 Admixtures: use air-entraining admixture in exposed concrete, unless otherwise indicated on the drawings. Use admixtures for water-reducing and set-control in compliance with the manufacturer's directions and when specifically approved by the Architect.

C. Slump Limits: Proportions and design mixes to result in concrete slump at the point of placement as follows:

1. Ramps and Sloping Surfaces: Not more than 4".

2. Reinforced Foundation Systems: Not less than 1" and not more than 4".

3. Concrete Masonry Grout: Not less than 8" and not more than 11".

4. All Other Concrete: Not less than 1" and not more than 4".

PART 3 - EXECUTION

3.01 INSPECTION

A. General: Examine the areas and conditions under which work of this section will be performed. Correct conditions detrimental to the completion of the work. Do not proceed until unsatisfactory conditions have been corrected.

3.02 QUALITY CONTROL TESTING DURING CONSTRUCTION

B. General: The testing laboratory approved by the Architect will perform all tests and submit test reports.

C. Tests: Sampling and testing for quality control during the placement of concrete shall include the following:

1. Sampling Fresh Concrete: ASTM C 172, except modified for slump to comply with ASTM C 94-92.

2. Slump: ASTM C 143, one test for each concrete load at point of discharge and one test for each set of compressive strength test specimens.

3. Air Content: ASTM C 231, pressure for normal weight concrete; one for each set of compressive strength test specimens.

4. Concrete Temperature: Test hourly when air temperature is 40° F. and below, and when 80° F. and above; and each time a set of compression test specimens are made.

5. Compression Test Specimen: ASTM C 31, one set of 4 standard cylinders for each compressive-strength test, unless otherwise directed. Mold and store cylinders for laboratory-cured test specimens except when field-cured specimens are required.

6. Compressive Strength Tests:

a. ASTM C 39; one set for each 100 cu. yds. or fraction thereof, of each concrete class placed in any one day or for each 5,000 sq. ft. of surface area placed; one specimen tested at 7 days, two specimens tested at 28 days, and one specimen retained in reserve for later testing.

b. When the frequency of testing will provide less than 5 strength tests for a given class of concrete, conduct testing from at least 5 randomly selected batches or from each batch if fewer than 5 are used.

c. When the total quantity of a given class of concrete is less than 50 cu. yds., the strength test may be waived by the Architect if, in his judgment, adequate evidence of satisfactory strength is provided.

d. When the strength of field-cured cylinders is less than 85% of companion labortory-cured cylinders, evaluate current operations and provide corrective procedures for protecting and curing the in-place concrete.

D. Reports: Test results will be reported in writing to the Architect and the Contractor on the same day that tests are made. Reports of compressive strength tests shall contain the project identification name and number, date of concrete placement, name of concrete testing service, concrete type and class, location of concrete batch in the structure, design compressive strength at 28 days, concrete mix proportions and materials; compressive breaking strength and type of break for both 7-day tests and 28-day tests.

END OF SECTION 03300

SECTION 05120
STRUCTURAL STEEL

PART 1 - GENERAL

1.01 WORK INCLUDED

A. The extent of structural steel work is shown on the drawings, including schedules, notes and details to show size and location of members, typical connections and type of steel.

B. Structural Steel is that work defined in the AISC "Code of Standard Practice", latest edition, and as otherwise shown on the drawings except Article 4.2.1 shall be changed to read: "Approval by the Owner or his representative of shop drawings prepared by the fabricator indicates the fabricator has correctly interpreted the contract requirements. Approval does not relieve the fabricator of the responsibility for accuracy of detailed dimensions on shop drawings nor the general fit-up of parts to be assembled in the field."

1.02 QUALITY ASSURANCE

A. Codes and Standards: Comply with the provisions of the followings except as otherwise indicated on the drawings.
1. American Institute of Steel Construction (AISC). Specification for Structural Steel Buildings, latest edition (with Commentary).

2. Code of Standard Practice for Steel Buildings and Bridges, latest edition, except as modified in 1.01 B.

3. American Welding Society (AWS). Structural Welding Code, D1.1.

4. Research Council on Riveted and Bolted Structural Joints of the Engineering Foundation "Specifications for Structural Joints Using High-Strength Bolts", latest eidtion (with Commentary).

5. Steel Structures Painting Council (SSPC). Steel Structures Painting Manual, Volume 1, latest edition, Good Painting Practice. Steel Structures Painting Manual, Volume 2, latest edidtion, Systems and Specifications.

6. American Society of Testing Materials (ASTM): A 6-: "General Requirements for Delivery of Rolled Steel Plates, Shapes, Sheet Piling and Bars for Structural Use".

1.03 QUALITY CONTROL

A. Fabrication and Erection Qualifications:
1. Fabricator and erector must have a minimum of five years experience with a proven record of satisfactory work.

2. Fabricator and erector must have had work of similar type of construction to be considered as "satisfactory work".

3. The Architect shall be the sole judge as to whether the fabricator and erector satisfactorily meets these requirements.

4. "Steel Fabricator" and "Steel Erector" shall be an organized steel company engaged in this type of work.

5. If any fabricator or steel erector is doubtful as to whether he meets these requirements, he may submit information to the Architect at least 10 days before the bid opening in order to qualify.

B. Qualifications for Welding Work:

1. Qualify welding processes and welding operators in accordance with the D1.1-83 Standard Qualification Procedure in Structural Welding Code of AWS.

2. Provide certification that welders to be employed in the work have satisfactorily passed AWA qualification tests within the previous 12 months. If recertification of welders is required, retesting will be Contractor's responsibility.

C. Source Quality Control:

1. Materials and fabrication procedures are subject to inspection and tests in the mill, shop and field, conducted by a qualified inspection agency. Such inspections and tests will not relieve the Contractor of responsibility for providing materials and fabrication procedures in compliance with specified requirements.

2. Remove and replace materials or fabricated components which do not comply.

1.04 SUBMITTALS

A. Manufacturer's Data, Structural Steel:
1. For information only, submit two copies of producer's or manufacturer's specifications and installation instructions for the following products. Include laboratory test reports and data to show compliance with these specifications (including specified standards). Indicate by transmittal form that copy of each applicable instruction has been distributed to fabricators, installers and erectors.

a. Structural steel (each type), including certified copies of mill reports covering the chemical and physical properties
b. High-strength bolts (each type), including nuts and washers
c. Load indicator washers
d. Unfinished bolts and nuts
e. Structural steel primer paint
f. Shrinkage-resistance grout

B. Shop Drawings, Structural Steel:

1. Submit shop drawings including complete details and schedules for fabrication and shop assembly of members, and details, schedules, procedures and diagrams, showing the sequence of erection.

2. Contractor shall check, approve and stamp all shop drawings prior to submittal to Architect.

3. The shop drawings shall be reviewed by Architect prior to fabrication. Architect's review is for design only. Contractor is responsible for dimensions, quantities, and coordination with other trades. Engineer's review and acceptance of shop drawings is subject to all contract requirements and does not authorize any changes involving additional cost to Owner.

4. Include details of cuts, connections, splices, camber and holes. Indicate welds by standard AWS symbols, and show size, length and type of each weld.

5. Provide setting drawings, templates, and directions for the installation of anchor bolts and anchorages to be installed by others.

6. Shop drawings shall be made to conform to the design drawings. Contract drawings shall take precedence over Shop Drawings.

1.05 Delivery, STORAGE AND HANDLING

A. Delivery: Deliver materials to the site at intervals to ensure uninterrupted progress of the work. Deliver anchor bolts, leveling plates and anchorage devices, which are to be embedded in cast-in-place concrete or masonry, in time not to delay work.

B. Storage: Store materials to permit easy access for inspection and identification. Keep steel members off the ground, using pallets, platforms, or supports. Protect steel members and packaged materials from erosion and deterioration.

C. Handling: Do not store materials on the structure in a manner that might cause distortion or damage to the members or the supporting structures. Repair or replace damaged materials or structures as directed by the Architect.

PART 2 - PRODUCTS

2.01 MATERIALS

A. Wide flange shapes: ASTM A-992 grade 50.

B. Other Rolled Steel Plates, Shapes and Bars: ASTM A 36.

C. Anchor Bolts: ASTM A 1554, headed type unless otherwise indicated on the drawings.

D. Unfinished Threaded Fasteners:
1. ASTM A 307, Grade A, regular low carbon steel bolts and nuts.
2. Provide either hexagonal, or square, heads and nuts, except use only hexagonal units for exposed connections.

E. High-Strength Threaded Fasteners:
1. Heavy hexagon structural bolts, heavy hexagon nuts, hardened washers and direct tension indicating washers shall be quenched and tempered medium-carbon steel bolts, nuts and washers complying with ASTM A 325.
2. High-strength load indicator bolt (LIB) complying with all provisions of ASTM A 325 as manufactured by Lohr Structural Fasteners, Inc., Bethlehem Steel, Industrial Fasteners Div. or approved equal are acceptable.

F. Electrodes for Welding:
1. Shielded Arc Welding: E70 Electrodes, AWS A5.1, AWS 15.5 in accordance with AWS D1.1.
2. abSubmerged Arc Welding: F7 Electrodes, AWS 5.17 or 5.23 in accordance with AWS D1.1.

G. Structural Steel Primer Paint: Steel Structures Painting Council, SSPC - Paint Specification No.

H. Nonmetallic Nonshrink Grout: Premixed, nonmetallic, noncorrosive, nonstaining product containing selected silica sands, portland cement, shrinkage compensating agents, plasticizing and water reducing agents, complying with CRD-C588.

2.02 FABRICATION

A. High-Strength Bolted Connections:
1. Install high-strength threaded fasteners in accordance with AISC "Specifications for Structural Joints" using ASTM A 325.
2. Bolted connections, unless otherwise noted on the drawings, shall be non-slip (friction) type. Threads shall be excluded from shear planes. Unless direct tension load indicator bolt systems ARE USED, all high-strength connectors shall be installed with direct tension indicator washers.
3. All bolts shall have a hardened washer under the turning element.
4. Installation of direct tension indicator washers or direct tension indicator bolt systems shall be in accordance with manufacturer's instructions.

B. Welded Connections:
1. All welding shall be in accordance with "Standard Welding Code" AWS D1.1.
2. Minimum size of fillet weld permitted shall be 3/16".
3. Assemble and weld built-up sections by methods which will produce true alignment of axes without warp or shortening.

C. Shear Connections:
1. Prepare steel surfaces as recommended by the manufacturer of the shear connectors.
2. Weld shear connectors, spaced as shown on the drawings, to beams and girders in composite construction. Use automatic arc welding of headed stud shear connectors in accordance with the manufacturer's printed instructions and in conformance to requirements of section 4 part F of AWS D1.1 "Structural Welding Code".

D. Cooperation with Other Trades:
1. Provide holes for securing other work to structural steel framing, and for the passage of other work through steel framing members, as shown on the final shop drawings. Provide threaded nut welded to framing, and other specialty items as shown to receive other work.
2. Cut, drill or punch holes perpendicular to metal surfaces. Do not flame cut holes or enlarge holes by burning. Drill holes in bearing plates.
3. All loose plates, bolts and inserts between the structural steel and work of other trades are to be furnished by the fabricator and set by other trades.
4. All loose lintels to be furnished by the fabricator and set by other trades.
5. Where steel lintels (other than angles) support concrete block over, add ½" dia. x 4" headed studs welded to top flange in center of grouted block spaced at max. 16" O.C. unless otherwise noted.

2.03 SHOP PAINTING

A. Shop paint all structural steel work, except those members or portions of members to be embedded in or in contact with concrete. Paint embedded steel which is partially exposed on the exposed portions and the initial 2" of embedded areas only.
Do not paint within 2" of surfaces which are to be welded or high-strength bolted with friction type connections for shear, moment resisting or splice connections.
Do not paint surfaces which are scheduled to receive sprayed-applied fire-resistive coatings.
Apply 2 coats of paint to surfaces which are inaccessible after assembly or erection. Change color of second coat to distinguish it from the first.

B. Surface Preparation: After inspection and before shipping, clean steel work to be painted. Remove loose rust, loose mill scale, and splatter, slag or flux deposits. Clean steel in accordance with Steel Structures Painting Council (SSPC) using one or more of the following.
SP-2 "Hand Tool Cleaning"
SP-3 "Power Tool Cleaning"
SP-7 "Brush-Off Blast Cleaning"

Painting: Immediately after surface preparation, apply structural steel primer paint in accordance with the manufacturer's instructions and at a rate to provide a uniform dry film thickness of 2.0 mils. Use painting methods which will result in full coverage of joints, corners, edges and all exposed surfaces.

PART 3 - EXECUTION

3.01 INSPECTION
Contractor must examine the areas and conditions under which structural steel work is installed, and notify the Architect in writing of conditions detrimental to the completion of the work. Do not proceed with the work until unsatisfactory conditions have been corrected.

3.02 FIELD MEASUREMENTS

A. Contractor shall make measurements in the field to supplement or verify dimensions indicated and to determine locations, limits and elevations of all adjacent existing structures where they form a connected structure prior to submittal of shop drawings and commencement of construction.

B. All field dimensions for preparation of steel details shall be indicated on shop drawings.

3.03 ERECTION

A. General:

1. Comply with AISC Specifications, AISC Code of Standard Practice, OSHA requirements, and as herein specified, as defined by Article 7.9.3 of non-self-supporting steel frames
2. All steel framing shall be considered the AISC Code of Standard Practice, latest edition.
3. Contractor shall provide all necessary temporary support until required connections or other interacting elements are complete.

B. Temporary Shoring and Bracing: Provide temporary shoring and bracing members with connections of sufficient strength to bear imposed loads. Remove temporary members and connections only after all permanent members are in place and final connections are made. Provide temporary guy lines to achieve proper alignment of the structures as erection proceeds. Where camber is specified, the cambered position shall be maintained and continuously monitored until all connections are complete.t

C. Anchor Bolts:
1. Furnish anchor bolts and connectors for securing structural steel to foundations and other in-place work.
2. Furnish templates and devices for presetting bolts and anchors to accurate locations.
3. Refer to Division 3 of these specifications for anchor bolt installation requirements in concrete, and Division 4 for masonry installation.

D. Setting Leveling Plates, Base Plates and Bearing Plates:
1. Clean concrete and masonry bearing surfaces of bond-reducing materials and roughen to improve bond to surfaces. Clean the bottom surface of base and bearing plates.
2. Set loose and attached bearing plates for structural members on steel wedges or adjusting devices. Column base plates to be set on 1/4" thick steel leveling plates of same horizontal dimensions as base plate. Leveling plates to be set on min. 3/4" non-shrink grout to exact level and grade elevation a min. of 3 days prior to erection of columns over.
3. Tighten the anchor bolts after the supported members have been positioned and plumbed. Do not remove wedges or shims, but if protruding, cut off flush with the edge of the base or bearing plate prior to packing with grout.
4. Pack grout between bearing surfaces and bases or plates to ensure that no voids remain. Finish exposed surfaces, protect installed materials, and allow to cure in compliance with manufacturer's instructions.

E. Touch-up Painting:

Immediately after erection, clean field welds, bolted connections, and abraded areas of the shop paint. Apply paint to exposed areas with the same material as used for shop painting. Apply by brush or spray to provide a minimum dry film thickness of 2.0 mils.

END OF SECTION 05120

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GEORGIA REGISTERED No. 000332 STRUCTURAL ENGINEER W. HUNTER SAUSSY, III

Not Valid Unless Signed

BUILDING #2
COLDBROOK PLAZA
OLD RICHMOND ROAD
PORT WENTWORTH, GA

BID

PROJECT NUMBER: 2367
PROJECT DATE: 10/01/24
DRAWN BY: H. Saussy III
APPROVED BY: H. Saussy III

SCHEDULE OF REVISIONS

#	DATE

SPECIFICATIONS

S5.1

SECTION 06192

PREFABRICATED METAL-PLATE-CONNECTED WOOD TRUSSES

PART 1 - GENERAL

1.01 SUMMARY

A. THIS SECTION INCLUDES THE FOLLOWING:
1. GABLE-SHAPED TRUSSES.
2. HIP AND GIRDER TRUSSES AT HIP ENDS OF ROOF.
3. MONOPITCH TRUSSES.

B. ROOF SHEATHING IS SPECIFIED IN DIVISION 6 SECTION "ROUGH CARPENTRY."

1.02 DEFINITIONS

PREFABRICATED METAL-PLATE-CONNECTED WOOD TRUSSES INCLUDE PLANAR STRUCTURAL UNITS CONSISTING OF METAL-PLATE-CONNECTED MEMBERS THAT ARE FABRICATED FROM DIMENSION LUMBER AND THAT HAVE BEEN CUT AND ASSEMBLED PRIOR TO DELIVERY TO THE PROJECT SITE.

1.03 SUBMITTALS
A. GENERAL: SUBMIT THE FOLLOWING IN ACCORDANCE WITH CONDITIONS OF CONTRACT AND DIVISION 1 SPECIFICATION SECTIONS.

B. PRODUCT DATA FOR LUMBER, METAL CONNECTOR PLATES, HARDWARE, FABRICATION PROCESS, AND FASTENERS.
C. WOOD TREATMENT DATA AS FOLLOWS INCLUDING CHEMICAL TREATMENT MANUFACTURER'S INSTRUCTIONS FOR HANDLING, STORING, INSTALLATION, AND FINISHING OF TREATED MATERIAL:
1. CERTIFICATION BY TREATING PLANT THAT REQUIRED FIRE-RETARDANT TREATMENT COMPLIES WITH SPECIFIED STANDARD AND OTHER REQUIREMENTS, AND BY METAL CONNECTOR PLATE MANUFACTURER THAT FIRE-RETARDANT FORMULATION IS APPROVED FOR USE WITH METAL CONNECTOR PLATES FOR TRUSS EXPOSURE INDICATED.
2. MATERIAL TEST REPORTS FROM QUALIFIED INDEPENDENT TESTING LABORATORY INDICATING AND INTERPRETING TEST RESULTS RELATIVE TO COMPLIANCE OF FIRE-RETARDANT-TREATED WOOD PRODUCTS WITH REQUIREMENTS INDICATED.

D. SHOP DRAWINGS INDICATING SPECIES, SPECIES GROUP, SIZES, AND STRESS GRADES OF LUMBER TO BE USED; PITCH, SPAN, CAMBER, CONFIGURATION, AND SPACING FOR EACH TYPE OF TRUSS REQUIRED; TYPE, SIZE, MATERIAL, FINISH, DESIGN VALUES, AND LOCATION OF METAL CONNECTOR PLATES; AND BEARING DETAILS.
1. TO THE EXTENT ENGINEERING DESIGN CONSIDERATIONS ARE INDICATED AS FABRICATOR'S RESPONSIBILITY, INCLUDE DESIGN ANALYSIS INDICATING LOADING, ASSUMED ALLOWABLE STRESS, STRESS DIAGRAMS AND CALCULATIONS, AND OTHER INFORMATION NEEDED FOR REVIEW THAT HAVE BEEN SIGNED AND SEALED BY A QUALIFIED PROFESSIONAL ENGINEER RESPONSIBLE FOR THEIR PREPARATION.
2. PROVIDE SHOP DRAWINGS THAT HAVE BEEN SIGNED AND STAMPED BY A QUALIFIED PROFESSIONAL ENGINEER.

E. PRODUCT CERTIFICATE, SIGNED BY OFFICER OF FABRICATING FIRM, CERTIFYING THAT METAL-PLATE-CONNECTED WOOD TRUSSES SUPPLIED FOR PROJECT COMPLY WITH SPECIFIED REQUIREMENTS.

1.04 QUALITY ASSURANCE

A. TPI STANDARDS: COMPLY WITH APPLICABLE REQUIREMENTS AND RECOMMENDATIONS OF THE FOLLOWING TRUSS PLATE INSTITUTE (TPI) PUBLICATIONS:
1. "DESIGN SPECIFICATION FOR METAL PLATE CONNECTED WOOD TRUSSES."
2. "DESIGN SPECIFICATION FOR METAL PLATE CONNECTED PARALLEL CHORD WOOD TRUSSES."
3. "COMMENTARY AND RECOMMENDATIONS FOR HANDLING AND ERECTING WOOD TRUSSES."
4. "COMMENTARY AND RECOMMENDATIONS FOR BRACING WOOD TRUSSES."
5. "QUALITY STANDARD FOR METAL PLATE CONNECTED WOOD TRUSSES."

B. CONNECTOR PLATE MANUFACTURER'S QUALIFICATIONS: A MANUFACTURER THAT IS A MEMBER OF TPI AND THAT COMPLIES WITH TPI QUALITY CONTROL PROCEDURES FOR MANUFACTURE OF CONNECTOR PLATES PUBLISHED IN TPI "QUALITY STANDARD FOR METAL CONNECTOR PLATE MANUFACTURE."

C. WOOD STRUCTURAL DESIGN STANDARD: COMPLY WITH APPLICABLE REQUIREMENTS OF N.F.P.A. "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION."

D. SINGLE-SOURCE ENGINEERING RESPONSIBILITY: PROVIDE TRUSSES ENGINEERED BY THE METAL PLATE CONNECTOR MANUFACTURER TO SUPPORT SUPERIMPOSED DEAD, LIVE AND WIND LOADS INDICATED, WITH DESIGN APPROVED AND CERTIFIED BY A QUALIFIED PROFESSIONAL ENGINEER.

E. ENGINEER QUALIFICATIONS: A PROFESSIONAL ENGINEER LEGALLY AUTHORIZED TO PRACTICE IN JURISDICTION WHERE PROJECT IS LOCATED AND EXPERIENCED IN PROVIDING ENGINEERING SERVICES OF THE KIND INDICATED THAT HAVE RESULTED IN THE INSTALLATION OF METAL-PLATE-CONNECTED WOOD TRUSSES SIMILAR TO THOSE OF THIS PROJECT AND WITH A RECORD OF SUCCESSFUL IN-SERVICE PERFORMANCE.

F. FABRICATOR'S QUALIFICATIONS:
1. USE A FIRM THAT COMPLIES WITH THE FOLLOWING REQUIREMENTS FOR QUALITY CONTROL AND IS EXPERIENCED IN PREFABRICATING METAL-PLATE-CONNECTED WOOD TRUSSES SIMILAR TO THOSE OF THIS PROJECT THAT HAVE A RECORD OF SUCCESSFUL IN-SERVICE PERFORMANCE.
2. FABRICATOR PARTICIPATES IN A RECOGNIZED QUALITY ASSURANCE PROGRAM THAT INVOLVES INSPECTION BY SPIB; TIMBER PRODUCTS INSPECTION, INC.; TRUSS PLATE INSTITUTE; OR OTHER INDEPENDENT INSPECTION AND TESTING AGENCY ACCEPTABLE TO ARCHITECT AND AUTHORITIES HAVING JURISDICTION.

G. SINGLE SOURCE RESPONSIBILITY FOR CONNECTOR PLATES:
PROVIDE METAL CONNECTOR PLATES FROM A SINGLE MANUFACTURER.

1.05 DELIVERY, STORAGE, AND HANDLING

A. HANDLE AND STORE TRUSSES WITH CARE AND COMPLY WITH MANUFACTURER'S INSTRUCTIONS AND TPI RECOMMENDATIONS TO AVOID DAMAGE FROM BENDING, OVERTURNING, OR OTHER CAUSE WHICH TRUSSES ARE NOT DESIGNED TO RESIST OR ENDURE.

1.06 SEQUENCING AND SCHEDULING

A. TIME DELIVERY AND ERECTION OF TRUSSES TO AVOID EXTENDED ON-SITE STORAGE AND TO AVOID DELAYING WORK OF OTHER TRADES WHOSE WORK MUST FOLLOW ERECTION OF TRUSSES.

PART 2 - PRODUCTS

2.01 CONNECTOR PLATE MANUFACTURERS

A. AVAILABLE MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, MANUFACTURERS OFFERING METAL CONNECTOR PLATES THAT MAY BE INCORPORATED IN THE WORK INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:
1. ALPINE ENGINEERED PRODUCTS, INC.
2. BEMAX OF FLORIDA, INC.
3. GANG-NAIL SYSTEMS, INC.
4. TEE-LOK CORP.
5. TRUSS CONNECTORS OF AMERICA.
6. TRUSWAL SYSTEMS CORPORATION.

2.02 LUMBER

A. FACTORY MARK EACH PIECE OF LUMBER WITH TYPE, GRADE, MILL, AND GRADING AGENCY.

B. LUMBER STANDARD: MANUFACTURE LUMBER TO COMPLY WITH PS 20 "AMERICAN SOFTWOOD LUMBER STANDARD" AND WITH APPLICABLE GRADING RULES OF INSPECTION AGENCIES CERTIFIED BY AMERICAN LUMBER STANDARDS COMMITTEE'S (ALSC) BOARD OF REVIEW.

C. INSPECTION AGENCIES: INSPECTION AGENCIES AND THE ABBREVIATIONS USED TO REFERENCE THEM TO LUMBER GRADES AND SPECIES INCLUDE THE FOLLOWING:
1. NLGA - NATIONAL LUMBER GRADES AUTHORITY (CANADIAN).
2. SPIB - SOUTHERN PINE INSPECTION BUREAU.
3. WCLIB - WEST COAST LUMBER INSPECTION BUREAU.
4. WWPA - WESTERN WOOD PRODUCTS ASSOCIATION.

D. NOMINAL SIZES ARE INDICATED, EXCEPT AS SHOWN BY DETAIL DIMENSIONS.

E. PROVIDE DRESSED LUMBER, S4S, MANUFACTURED TO ACTUAL SIZES REQUIRED BY PS 20 TO COMPLY WITH REQUIREMENTS INDICATED BELOW:
1. MOISTURE CONTENT: SEASONED, WITH 19 PERCENT MAXIMUM MOISTURE CONTENT AT TIME OF DRESSING AND SHIPMENT FOR SIZES 2 INCHES OR LESS IN NOMINAL THICKNESS, UNLESS OTHERWISE INDICATED.

2.03 METAL CONNECTOR PLATES

A. GENERAL: FABRICATE CONNECTOR PLATES FROM METAL COMPLYING WITH REQUIREMENTS INDICATED IN THIS ARTICLE.

B. HOT-DIP GALVANIZED STEEL SHEET: STRUCTURAL (PHYSICAL) QUALITY STEEL SHEET COMPLYING WITH ASTM 653, GRADE A; ZINC COATED BY HOT-DIP PROCESS TO COMPLY WITH ASTM A 653, DESIGNATION G60; MINIMUM COATED METAL THICKNESS INDICATED BUT NOT LESS THAN 0.036 INCH.

C. ELECTROLYTIC ZINC-COATED STEEL SHEET: STRUCTURAL (PHYSICAL) QUALITY STEEL SHEET COMPLYING WITH ASTM A 879, COATING CLASS C, AND, FOR STRUCTURAL PROPERTIES, WITH ASTM A 653 GRADE A ; ZINC COATED BY ELECTRO-DEPOSITION; WITH MINIMUM COATED METAL THICKNESS INDICATED BUT NOT LESS THAN 0.047 INCH.

D. ALUMINUM-ZINC ALLOY-COATED STEEL SHEET: STRUCTURAL (PHYSICAL) QUALITY STEEL SHEET COMPLYING WITH ASTM A 792, COATING DESIGNATION AZ 50, AND, FOR A STRUCTURAL PROPERTIES, WITH ASTM A 653, GRADE A; ALUMINUM-ZINC ALLOY-COATED BY HOT-DIP PROCESS; WITH MINIMUM COATED METAL THICKNESS INDICATED BUT NOT LESS THAN 0.036 INCH.

E. STAINLESS STEEL SHEET: CHROMIUM NICKEL STEEL SHEET COMPLYING WITH ASTM A 167, TYPE 304, AND, FOR STRUCTURAL PROPERTIES, ASTM A 653, GRADE A; WITH MINIMUM METAL THICKNESS INDICATED BUT NOT LESS THAN 0.035 INCH.

2.04 FASTENERS

A. GENERAL: PROVIDE FASTENERS OF SIZE AND TYPE INDICATED THAT COMPLY WITH REQUIREMENTS SPECIFIED IN THIS ARTICLE FOR MATERIAL AND MANUFACTURE.
1. WHERE TRUSS MEMBERS ARE EXPOSED TO WEATHER OR TO HIGH RELATIVE HUMIDITIES, PROVIDE FASTENERS WITH A HOT-DIP ZINC COATING PER ASTM A153 OR OF AISI TYPE 304 STAINLESS STEEL.

B. NAILS, WIRE, BRADS, AND STAPLES: FS FF-N-105.

C. POWER DRIVEN FASTENERS: NATIONAL EVALUATION REPORT NER-272.

D. WOOD SCREWS: ANSI B18.6.1.

E. LAG BOLTS: ANSI B18.2.1.

F. BOLTS: STEEL BOLTS COMPLYING WITH ASTM A 307, GRADE A; WITH ASTM A 563 HEX NUTS AND WHERE INDICATED, FLAT WASHERS.

2.05 METAL FRAMING ANCHORS

A. GENERAL:
1. PROVIDE METAL FRAMING ANCHORS OF TYPE, SIZE, METAL, AND FINISH INDICATED THAT COMPLY WITH REQUIREMENTS SPECIFIED INCLUDING THE FOLLOWING:

B. CURRENT EVALUATION/RESEARCH REPORTS:
1. PROVIDE PRODUCTS FOR WHICH REPORTS EXIST FROM A MODEL CODE ORGANIZATION ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION THAT EVIDENCE COMPLIANCE OF METAL FRAMING ANCHORS FOR APPLICATION INDICATED WITH THE BUILDING CODE IN EFFECT FOR THIS PROJECT.
2. ALLOWABLE DESIGN LOADS: PROVIDE PRODUCTS FOR WHICH MANUFACTURER PUBLISHES ALLOWABLE DESIGN LOADS THAT ARE DETERMINED FROM EMPIRICAL DATA OR BY RATIONAL ENGINEERING ANALYSIS AND THAT ARE DEMONSTRATED BY COMPREHENSIVE TESTING PERFORMED BY A QUALIFIED INDEPENDENT TESTING LABORATORY.

C. GALVANIZED STEEL SHEET: STEEL SHEET ZINC-COATED BY HOT-DIP PROCESS ON CONTINUOUS LINES PRIOR TO FABRICATION TO ASTM A 653 FOR COATING DESIGNATION G60.

2.06 FABRICATION

A. CUT TRUSS MEMBERS TO ACCURATE LENGTHS, ANGLES, AND SIZES TO PRODUCE CLOSE-FITTING JOINTS WITH WOOD-TO-WOOD BEARING IN ASSEMBLED UNITS.

B. FABRICATE METAL CONNECTOR PLATES TO SIZE, CONFIGURATION, THICKNESS, AND ANCHORAGE DETAILS REQUIRED TO WITHSTAND DESIGN LOADINGS FOR TYPES OF JOINT DESIGNS INDICATED.

C. ASSEMBLE TRUSS MEMBERS IN DESIGN CONFIGURATION INDICATED USING JIGS OR OTHER MEANS TO ENSURE UNIFORMITY AND ACCURACY OF ASSEMBLY WITH JOINTS CLOSELY FITTED TO COMPLY WITH TOLERANCES SPECIFIED IN TPI "QUALITY STANDARD FOR METAL PLATE CONNECTED WOOD TRUSSES." POSITION MEMBERS TO PRODUCE DESIGN CAMBER INDICATED.

D. CONNECT TRUSS MEMBERS BY MEANS OF METAL CONNECTOR PLATES ACCURATELY LOCATED AND SECURELY FASTENED TO EACH SIDE OF WOOD MEMBERS BY MEANS INDICATED OR APPROVED. MANUFACTURER, MODEL AND TYPE TO BE SPECIFIED ON SHOP DRAWINGS BASED ON DESIGN ANALYSIS, UNLESS NOTED ON DRAWINGS.

PART 3 - EXECUTION

3.01 INSTALLATION
A. GENERAL: ERECT AND BRACE TRUSSES TO COMPLY WITH APPLICABLE REQUIREMENTS OF REFERENCED TPI STANDARDS.

B. WHERE TRUSSES DO NOT FIT, RETURN THEM TO FABRICATOR AND REPLACE WITH TRUSSES OF CORRECT SIZE; DO NOT ALTER TRUSSES IN THE FIELD.

C. ERECT TRUSSES WITH PLANE OF TRUSS WEBS VERTICAL (PLUMB) AND PARALLEL TO EACH OTHER, LOCATED ACCURATELY AT DESIGN SPACINGS INDICATED.

D. HOIST TRUSSES IN PLACE BY MEANS OF LIFTING EQUIPMENT SUITED TO SIZES AND TYPES OF TRUSSES REQUIRED, EXERCISING CARE NOT TO DAMAGE TRUSS MEMBERS OR JOINTS BY OUT-OF-PLANE BENDING OR OTHER CAUSES.

E. ANCHOR TRUSSES SECURELY AT ALL BEARING POINTS TO COMPLY WITH METHODS AND DETAILS INDICATED.

F. INSTALL PERMANENT BRACING AND RELATED COMPONENTS TO ENABLE TRUSSES TO MAINTAIN DESIGN SPACING, WITHSTAND LIVE AND DEAD LOADS INCLUDING LATERAL LOADS, AND TO COMPLY WITH OTHER INDICATED REQUIREMENTS.
G. DO NOT CUT OR REMOVE TRUSS MEMBERS.

END OF SECTION 06192

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GEORGIA REGISTERED No. 000432 STRUCTURAL ENGINEER W. HUNTER SAUSSY, III
Not Valid Unless Signed

BUILDING #2
COLDBROOK PLAZA
OLD RICHMOND ROAD
PORT WENTWORTH, GA

BID

PROJECT NUMBER: 2367
PROJECT DATE: 10/01/24
DRAWN BY: H. Saussy III
APPROVED BY: H. Saussy III

SCHEDULE OF REVISIONS

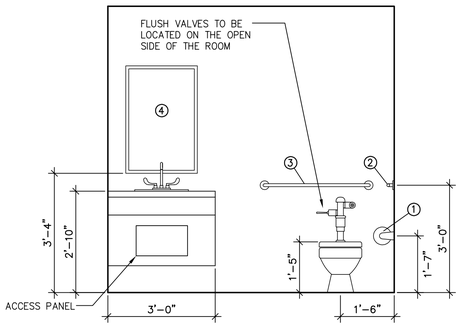
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SPECIFICATIONS

S5.2

SAUSSY ENGINEERING
400 Johnny Mercer Boulevard • Suite E
P.O. Box 30597 • Savannah, Georgia 31410
Phone: (912) 898-8255 • Fax: (912) 898-1882

PROJECT # 24034 - S5-2.dwg 9/18/24 11:35 am



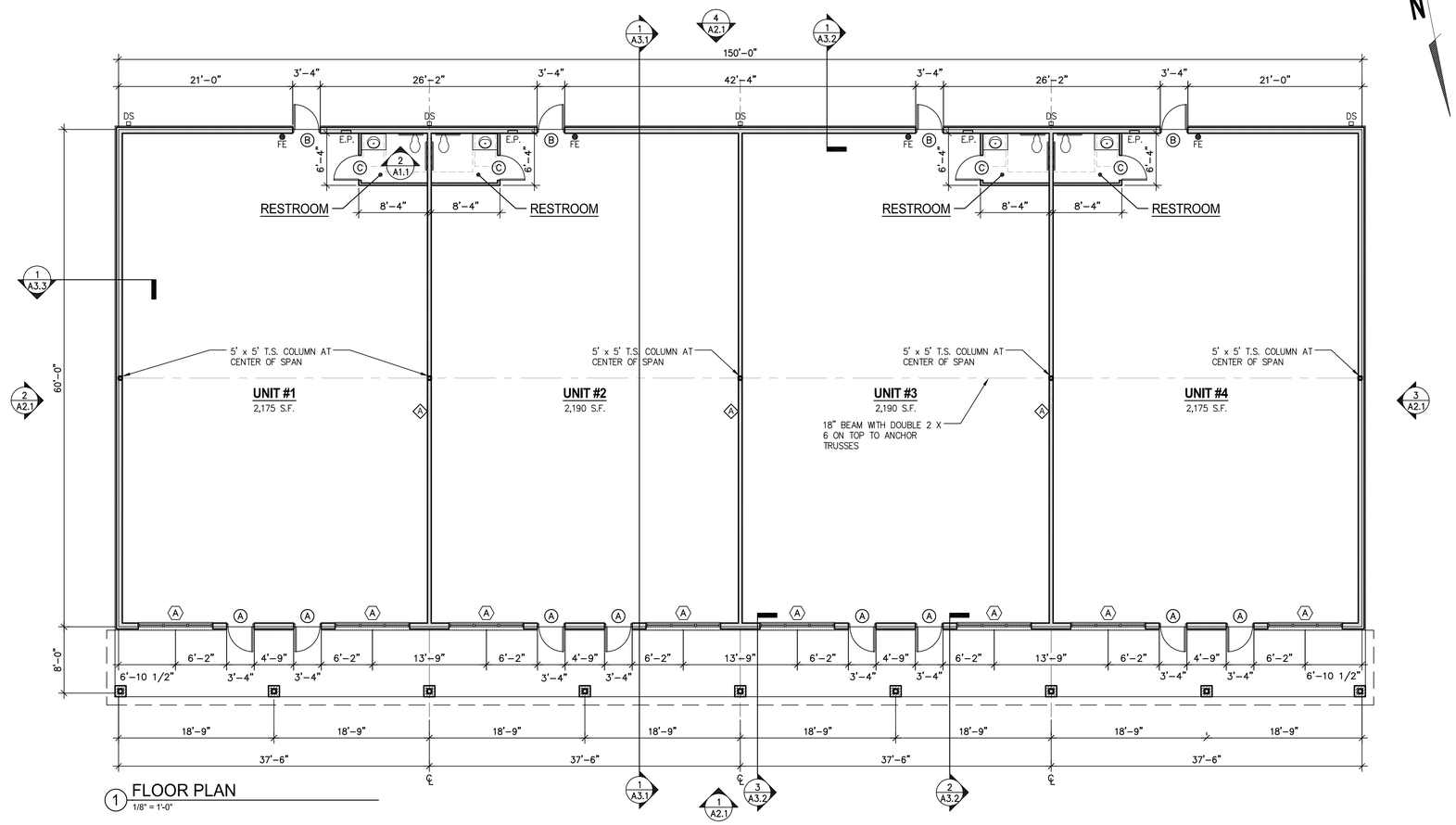
2 BATHROOM ELEVATION
1/2" = 1'-0"

RESTROOM ACCESSORIES

1. TOILET PAPER HOLDER – 19" A.F.F.
2. 42" GRAB BAR (GB)
3. 36" GRAB BAR (GB)
4. 24 X 36 MIRROR

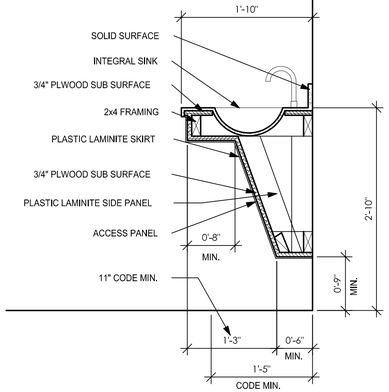
NOTE: FIXTURES SHOWN CROSSHATCHED SHALL BE MOUNTED FOR HANDICAPPED

NOTE: ALL GRAB BARS SHALL BE MOUNTED INTO SOLID 2x BLOCKING



1 FLOOR PLAN
1/8" = 1'-0"

NOTE:
CONTRACTOR TO PROVIDE SHOP DRAWINGS ON VANITY



3 ADA BATHROOM DETAIL
1" = 1'-0"

ROOM FINISH SCHEDULE

SPACE NAME	FLOOR	BASE	WALLS	CEILING	CEILING HEIGHT	COMMENTS
FIRST FLOOR						
UNIT #1	CON	––	GWB/P	ES	––	
RESTROOM	LVP	RB	GWB/P	GCB/P	9'–0"	
UNIT #2	CON	––	GWB/P	ES	––	
RESTROOM	LVP	RB	GWB/P	GCB/P	9'–0"	
UNIT #3	CON	––	GWB/P	ES	––	
RESTROOM	LVP	RB	GWB/P	GCB/P	9'–0"	
UNIT #4	CON	––	GWB/P	ES	––	
RESTROOM	LVP	RB	GWB/P	GCB/P	9'–0"	

FINISH ABBREVIATIONS

CON – CONCRETE
GCB – GYPSUM CEILING BOARD
RB – RUBBER BASE
GWB – GYPSUM WALL BOARD
P – PAINT
ES – EXPOSED STRUCTURE
LVP – LUXURY VINYL PLANK

WALL TYPES

A – 2 HOUR RATED FIRE WALL– 4" WOOD STUDS AT 16" O.C. WITH 2 LAYERS OF 5/8" TYPE "X" GYPSUM WALL BOARD EACH SIDE

DOOR SCHEDULE

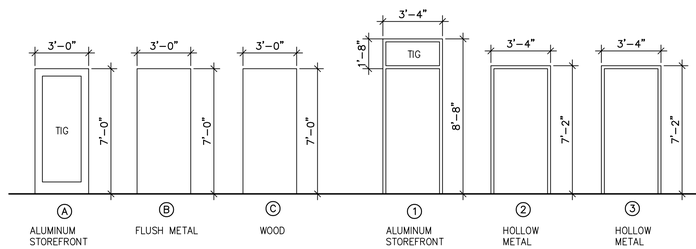
MK.	DOOR SIZE	DOOR TYPE	DOOR ELEV	FRAME TYPE	FRAME ELEV	RATED	COMMENTS
A	3'–0" x 7'–0" x 1–3/4"	ALS	A	ALS	1		HARDWARE BY ALUMINUM STOREFRONT MNFR., TO MATCH
B	3'–0" x 7'–0" x 1–3/4"	FM	B	HM	2		PROVIDE LOCKSET, PANIC H.W., CLOSER, HC THRESH, SEAL & SWEEP
C	3'–0" x 7'–0" x 1–3/4"	SCW	C	HM	3		PROVIDE LOCKSET, HARDWARE, KICK PLATES AND CLOSER

ABBREVIATIONS:

ALS – ALUMINUM STOREFRONT
FM – FLUSH METAL (INSULATED)
HM – HOLLOW METAL
SCW – SOLID CORE WOOD

NOTES:

1. PROVIDE WEATHER STRIPPING AND CLOSERS AT ALL EXTERIOR DOORS.
2. ALL THRESHOLDS OF REQUIRED EXIT EGRESS DOORS SHALL MEET ADA REQUIREMENTS.
3. ALL DOOR WIDTHS SHOWN IN THE SCHEDULE ARE ROUGH OPENING AND EQUAL:
   = DOOR WIDTH + 3.5" IN WOOD STUD
   = DOOR WIDTH + 4" IN MASONRY
4. CONTRACTOR TO PROVIDE HEAVY DUTY DOOR HARDWARE; WITH ALL DOOR RECEIVING HINGES, PLATES, STOPS AND CORES. USE SCHLAGE OR BEST LEVER TYPE HARDWARE.



4 DOOR & FRAME ELEVATIONS
1/4" = 1'-0"

GLAZING SCHEDULE

SYM	THICKNESS	DESCRIPTION
TG	5/8"	CLEAR TEMPERED GLASS
TIG	1"	CLEAR TEMPERED INSULATING GLASS
IG	1"	CLEAR INSULATING GLASS

1. TG GLAZING SHALL BE USED IN ALL OPENINGS THAT ARE LOCATED WITHIN 24" OF A DOOR OR FLOOR.
2. ALL EXTERIOR GLASS SHALL BE LOW E WITH 60% TINT.

5 WINDOW ELEVATION
1/4" = 1'-0"

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TIMOTHY KEVIN PALMER

COLDBROOK PLAZA BUILDING #2
OLD RICHMOND ROAD
PORT WENTWORTH, GA

CHECK SET

PROJECT NUMBER: 2367
PROJECT DATE: 10/1/24
DRAWN BY: AMG
APPROVED BY: TKP

SCHEDULE OF REVISIONS

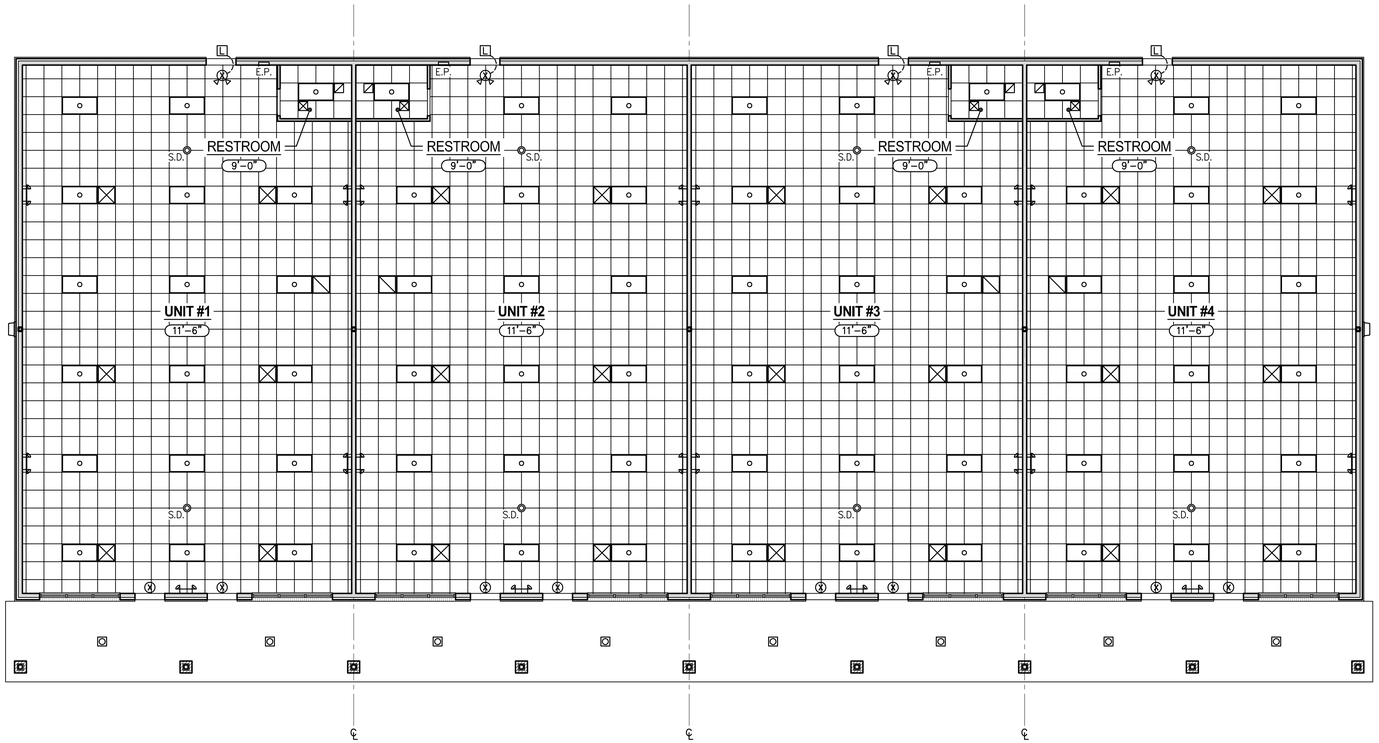
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FLOOR PLAN

A1.1

REFLECTED CEILING LEGEND

E.S.	EXPOSED STRUCTURE
	2x2 ACOUSTICAL CEILING TILE AND GRID
	CEILING SUPPLY DIFFUSER
	CEILING RETURN
	EXHAUST FAN
	2x4 LED LINEAR FLAT PANEL
	RECESSED LED FIXTURE
	EXIT LIGHT FIXTURE, ARROW INDICATES EGRESS ROUTE
	EXIT LIGHT FIXTURE W/ EMERGENCY LIGHT ON BATTERY BACK-UP, "L" INDICATES REMOTE LAMP
	EMERGENCY LIGHT ON BATTERY BACK-UP
	WALL PACK LIGHT FIXTURE W/ PHOTOCELL
S.D.	SMOKE DETECTOR



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

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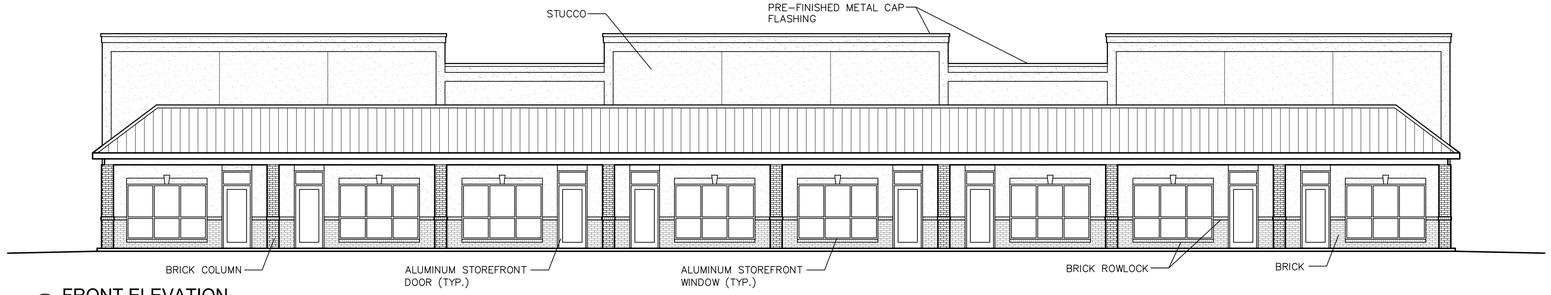
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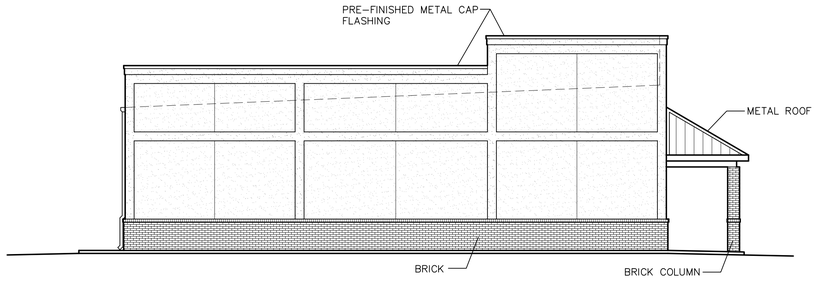
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REFLECTED CEILING PLAN

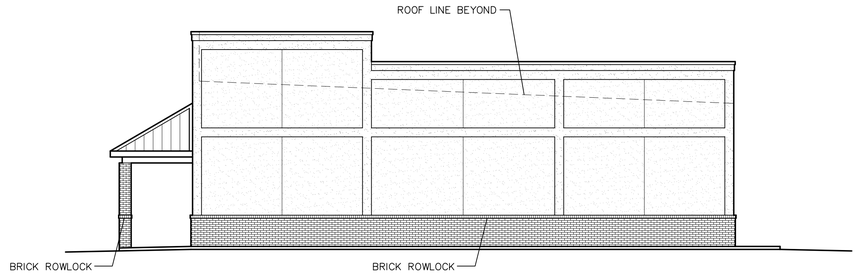
A1.2



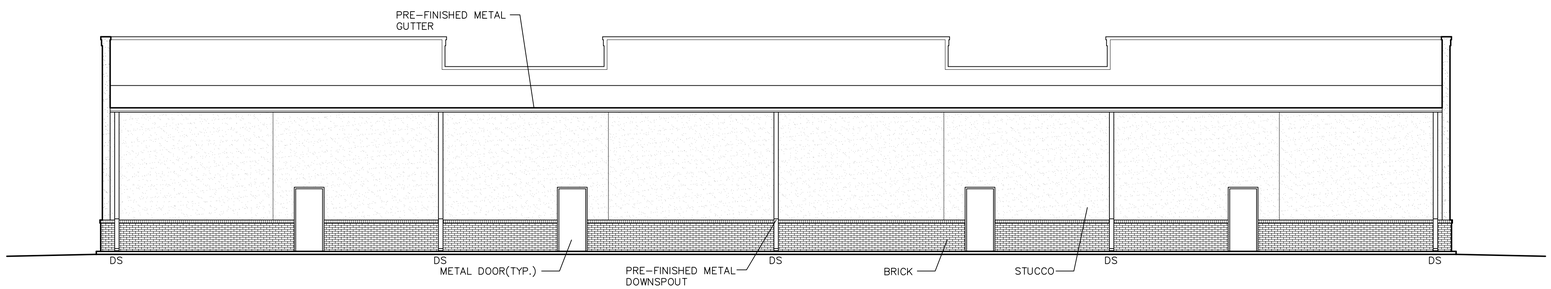
1 FRONT ELEVATION
1/8" = 1'-0"



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



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



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

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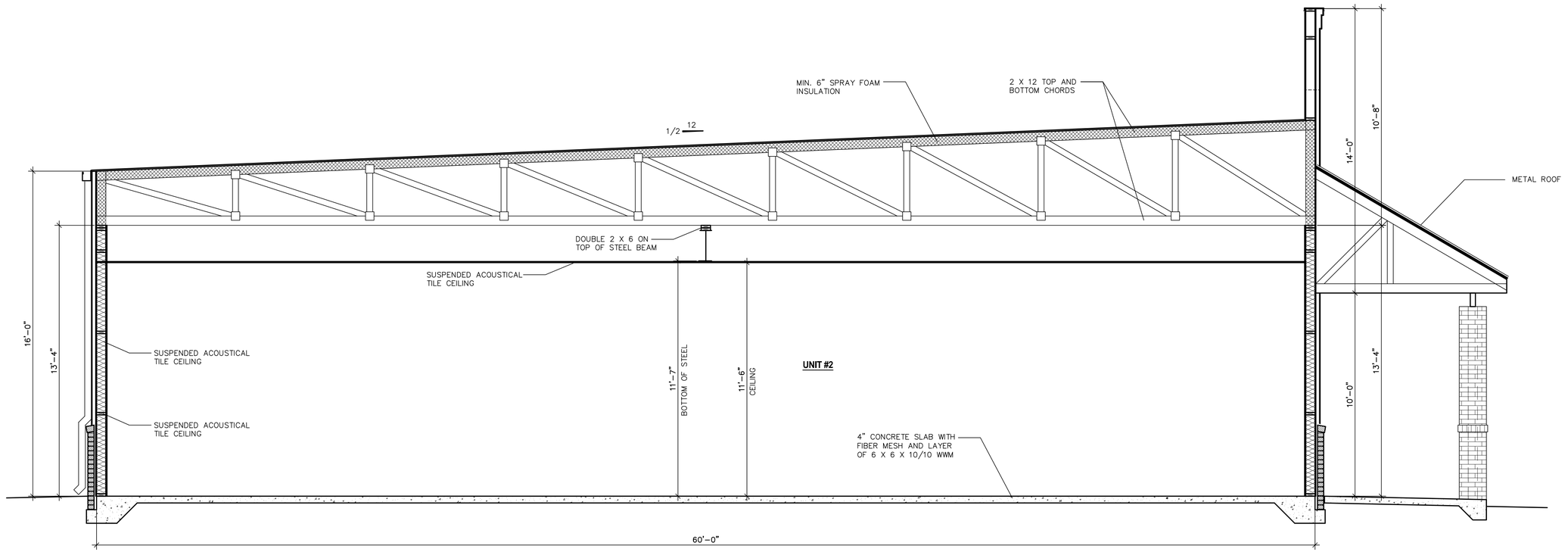
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SCHEDULE OF REVISIONS

#	DATE

EXTERIOR ELEVATIONS

A2.1



1 BUILDING SECTION
3/8" = 1'-0"

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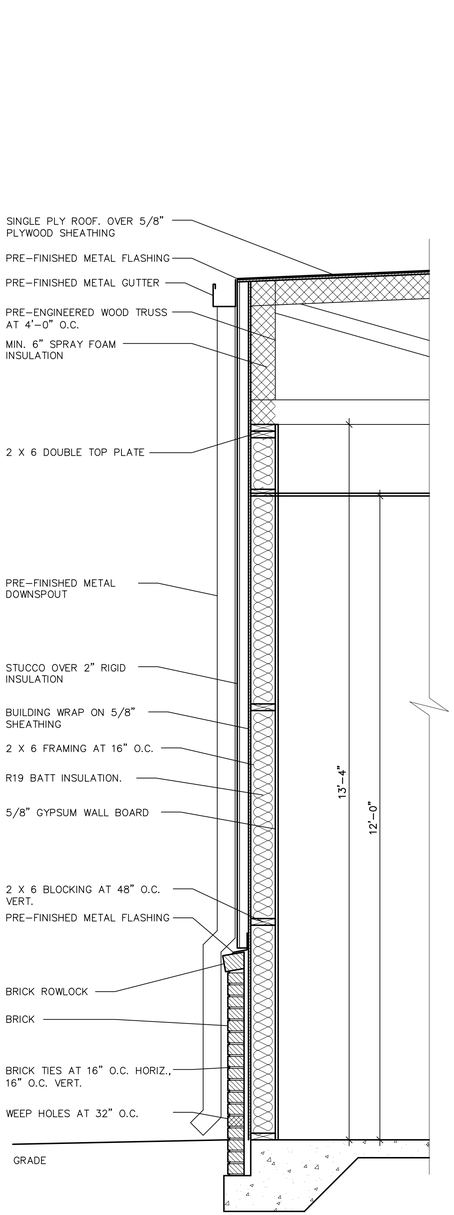
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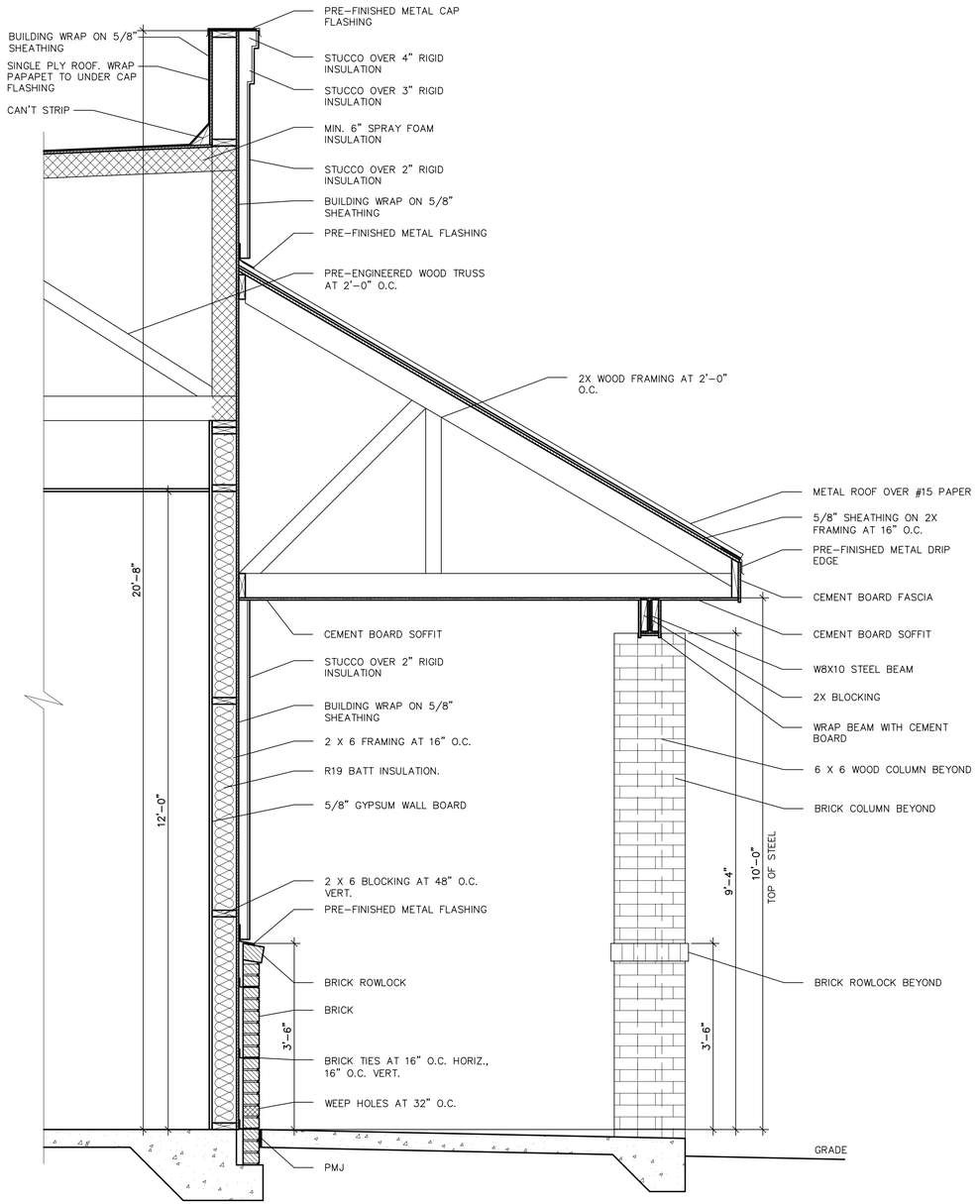
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BUILDING SECTION

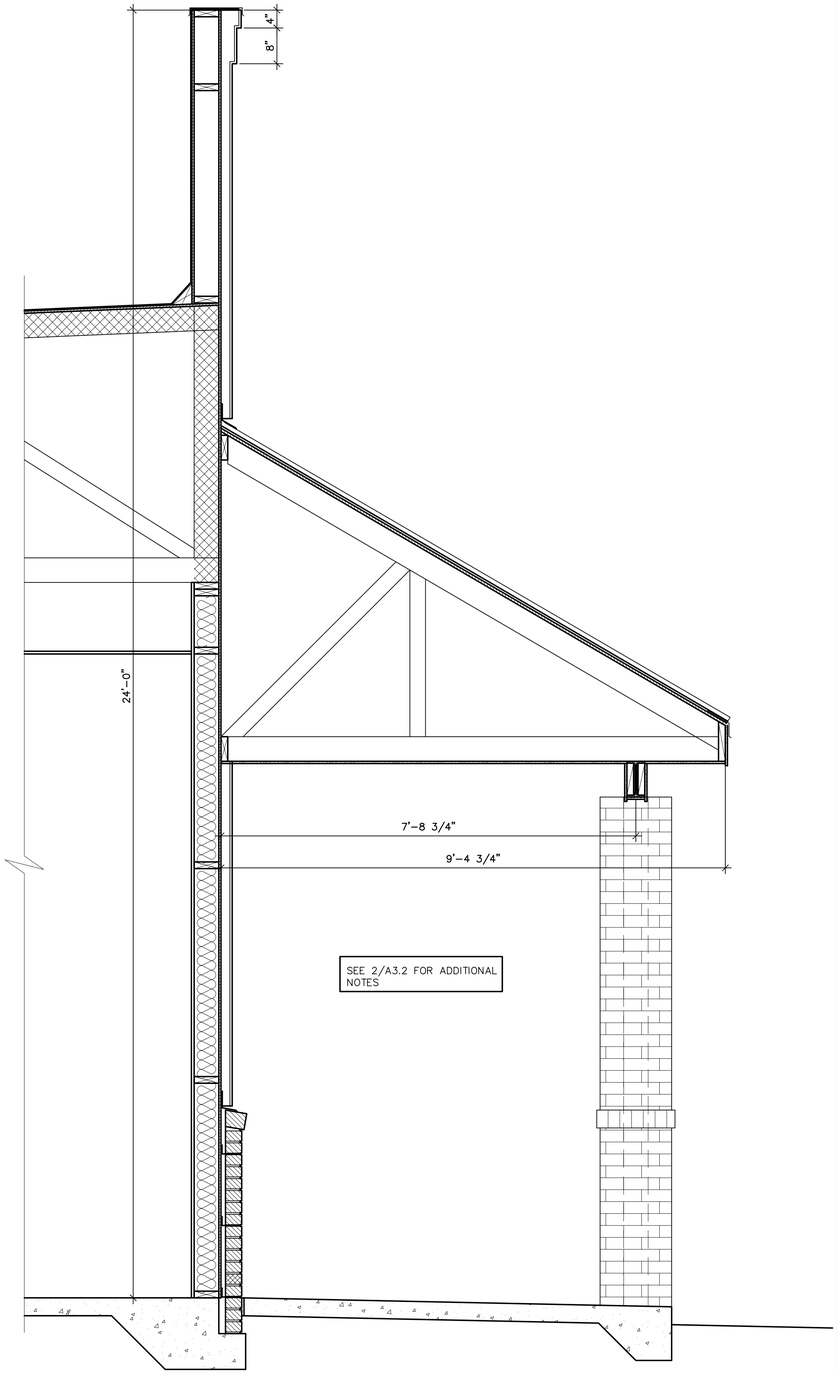
A3.1



1 WALL SECTION
3/4" = 1'-0"



2 WALL SECTION
3/4" = 1'-0"



3 WALL SECTION
3/4" = 1'-0"

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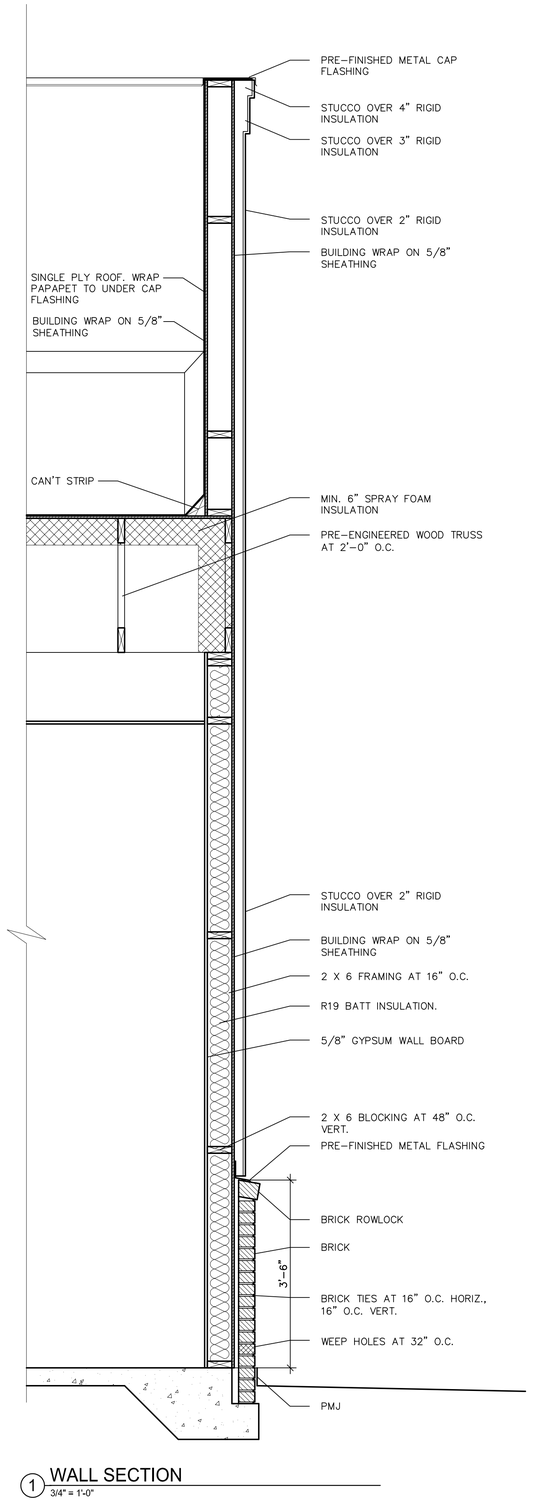
PROJECT NUMBER: 2367
PROJECT DATE: 10/1/24
DRAWN BY: AMG
APPROVED BY: TKP

SCHEDULE OF REVISIONS

#	DATE

WALL SECTIONS

A3.2



1 WALL SECTION
3/4" = 1'-0"

DPR ARCHITECTURE
D'ARCANGELO PALMER RULE

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TIMOTHY KEVIN PALMER

BUILDING #2
COLDBROOK PLAZA
OLD RICHMOND ROAD
PORT WENTWORTH, GA

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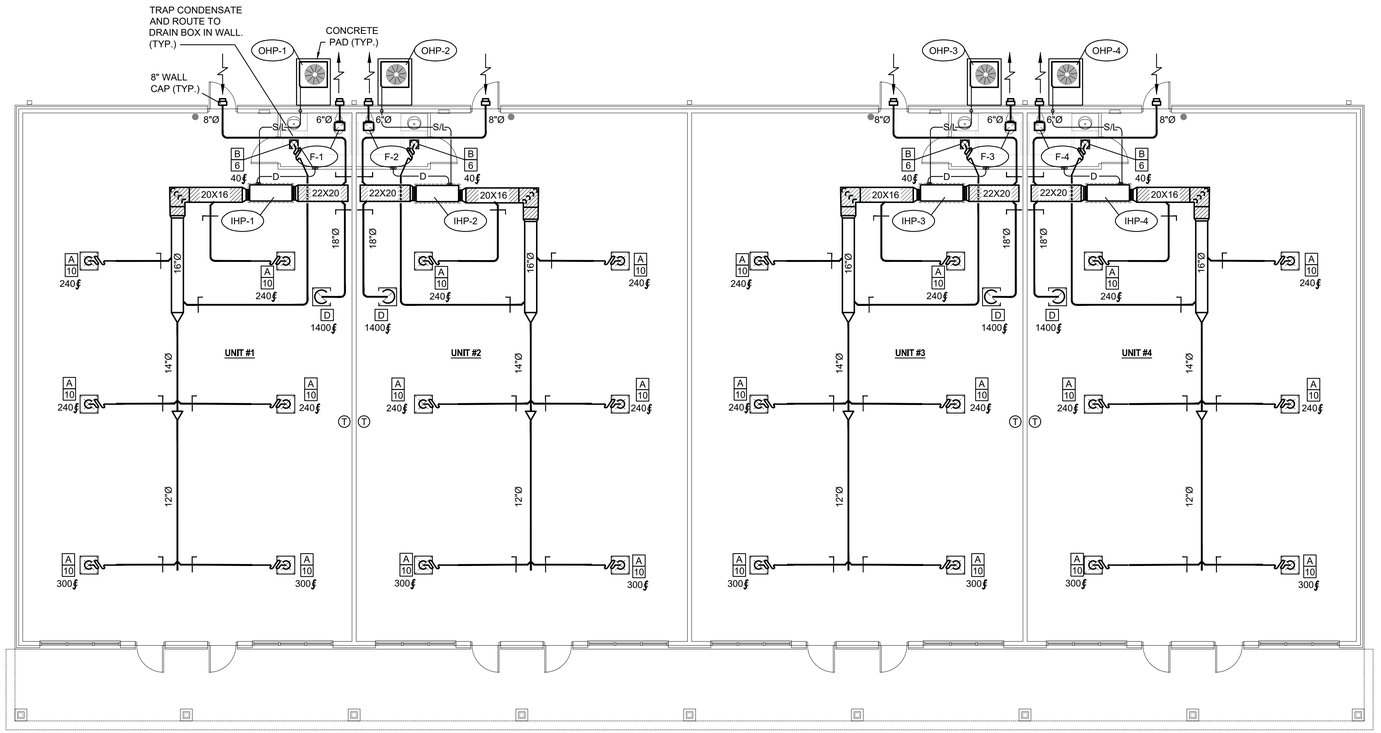
PROJECT NUMBER: 2367
PROJECT DATE: 10/1/24
DRAWN BY: AMG
APPROVED BY: TKP

SCHEDULE OF REVISIONS

#	DATE

WALL SECTIONS AND DETAILS

A3.3



1 / M1.0 HVAC PLAN
SCALE: 1/8" = 1' - 0"

N

8' 0' 8' 16' 24' 32'
GRAPHIC SCALE IN FEET

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HVAC PLAN

M1.0

2023-218

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H.V.A.C. LEGEND

SYMBOL	DESCRIPTION
S/L	REFRIGERANT SUCTION / LIQUID
D	CONDENSATE DRAIN
T	THERMOSTAT 4'-0" A.F.
S	WALL SWITCH
	FLEXIBLE DUCT CONNECTION AT UNIT
	LINED DUCT (SIZE SHOWN IS METAL SIZE)
	FLEXIBLE DUCT CONNECTION
	SUPPLY DIFFUSER
	RETURN / EXHAUST GRILLE
FD	FIRE DAMPER
SD	SMOKE DAMPER
F/SD	FIRE / SMOKE DAMPER
AD	ACCESS DOOR
CRD	CEILING RADIATION DAMPER
	SQUARE ELBOW WITH TURNING VANES
MVD	MANUAL VOLUME DAMPER
M	MOTOR OPERATED DAMPER
A / 8	SEE AIR DEVICE SCHEDULE FOR TYPE NECK CONNECTION SIZE UNLESS NOTED OTHERWISE
C.F.M.	CUBIC FEET PER MINUTE
F-1	EQUIPMENT NUMBER - SEE SCHEDULES
	AIRFLOW DIRECTION
Ø	DIAMETER
	AIR EXTRACTOR
OBD	OPPOSED BLADE DAMPER
TYP.	TYPICAL
ENT.	ENTERING
LVG.	LEAVING
S.P.	STATIC PRESSURE
A.P.D.	AIR PRESSURE DROP
OA	OUTDOOR AIR

HVAC GENERAL NOTES

INSTALL DUCTWORK AND PIPING ABOVE CEILINGS WHERE POSSIBLE AND IN CHASES TO PROVIDE MAXIMUM POSSIBLE CLEARANCE'S FOR MAINTENANCE ACCESS. INSTALL PIPING AND DUCTWORK IN EQUIPMENT ROOMS PARALLEL OR PERPENDICULAR TO WALLS AND CEILINGS UNLESS SHOWN OTHERWISE.

ALL DUCTWORK AND PIPING SHALL BE CONCEALED UNLESS NOTED OTHERWISE.

COORDINATE THE INSTALLATION OF DUCTWORK AND PIPING WITH THAT OF OTHER TRADES TO PROVIDE THE BEST POSSIBLE ARRANGEMENT. REFER TO PLUMBING, ELECTRICAL, AND STRUCTURAL DRAWINGS AND SPRINKLER SHOP DRAWINGS. ARRANGE PIPING AND DUCTWORK TO AVOID CONFLICTS WITH OTHER BUILDING TRADES.

UNLESS DIMENSIONED, PIPING, DUCTWORK, AND EQUIPMENT ARE SHOWN IN APPROXIMATE LOCATIONS. EXACT CONFIGURATION SHALL BE DETERMINED IN THE FIELD TO COORDINATE WITH OTHER TRADES AND TO ALLOW FOR A MINIMUM NUMBER OF OFFSETS AS POSSIBLE WHILE ALLOWING FOR ADEQUATE MAINTENANCE ACCESS.

FURNISH FLEXIBLE DUCT CONNECTIONS TO ALL AIR HANDLING EQUIPMENT.

FURNISH FLANGED OR UNION CONNECTIONS IN PIPING AT ALL EQUIPMENT AND CONTROL VALVES, AND AS REQUIRED FOR SERVICE.

EXACT LOCATION OF AIR DEVICES SHALL BE DETERMINED IN THE FIELD. COORDINATE WITH ARCHITECTURAL REQUIREMENTS AND LIGHTING. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS AND ELECTRICAL PLANS FOR LIGHT LOCATIONS. AIR DEVICE LOCATIONS SHALL BE INSTALLED WITH A UNIFORM APPEARANCE AND SHALL BE SYMMETRICAL.

DUCT ACCESS DOORS SHALL BE FURNISHED AT ALL FIRE AND SMOKE DAMPERS, DUCT MOUNTED COILS, AND AT ALL DUCT MOUNTED CONTROL DEVICES.

SLOPE DRAIN LINE TOWARDS DRAIN WITH A MINIMUM SLOPE OF 1/4" PER FOOT.

THERMOSTAT LOCATIONS SHALL BE A MINIMUM OF 8" AWAY FROM DOOR FRAMES. COORDINATE LOCATION OF THERMOSTATS WITH LIGHT SWITCHES AND OTHER WALL DEVICES FOR SYMMETRY. MOUNT AT 4'-0" A.F. UNLESS NOTED OTHERWISE.

AIR DEVICE SCHEDULE

MARK	TYPE	NECK SIZE (1)	FINISH	OPPOSED BLADE DAMPER	TITUS MODEL NUMBER	NOTES
A / 10	SQUARE CEILING DIFFUSER	10"Ø	MANUFACTURERS STANDARD WHITE	YES	OMNI / 24"X24" FACE	(2)
B / 6	SQUARE CEILING DIFFUSER	6"Ø	MANUFACTURERS STANDARD WHITE	YES	OMNI / 12"X12" FACE	(2)
D	EGG CRATE RETURN / EXHAUST	22"X22"	MANUFACTURERS STANDARD WHITE	NO	50F / 24X24 PANEL WITH BORDER FRAME	(2)

(1) DUCT RUNOUT SHALL BE SAME SIZE AS NECK SIZE UNLESS NOTED OTHERWISE.
(2) SEE ARCHITECTURAL PLANS FOR CEILING TYPE. FURNISH LAY-IN TYPE FOR T-BAR CEILINGS AND SURFACE TYPE FOR ALL OTHER CEILINGS.

FAN SCHEDULE

ITEM	LOCATION	C.F.M.	EXT. S.P. (IN. WC)	WATTS	R.P.M.	SONES	GREENHECK MODEL NO.	ELECTRICAL DATA (3) VOLTS	ELECTRICAL DATA (3) PHASE	NOTES
F-1	TOILET	80	0.5"	30	777	2.5	SP-A200	115	1Ø	(1)(2)
F-2	TOILET	80	0.5"	30	777	2.5	SP-A200	115	1Ø	(1)(2)
F-3	TOILET	80	0.5"	30	777	2.5	SP-A200	115	1Ø	(1)(2)
F-4	TOILET	80	0.5"	30	777	2.5	SP-A200	115	1Ø	(1)(2)

(1) FURNISH BACKDRAFT DAMPER, HANGING BRACKETS, METAL CEILING GRILLE, SPEED CONTROLLER, AND DISCONNECT MEANS.
(2) SWITCH WITH ROOM LIGHTS. FURNISH AUXILIARY CONTACTS AS REQUIRED.
(3) COORDINATE ELECTRICAL REQUIREMENTS WITH ELECTRICAL PLANS & CONTRACTOR BEFORE ORDERING EQUIPMENT. NOTIFY ENGINEER IMMEDIATELY IF DISCREPANCIES FOUND.

INDOOR HEAT PUMP SCHEDULE

ITEM	SUPPLY C.F.M.	EXT. S.P. (IN. W.C.)	O.A. C.F.M.	FAN HP.	DRIVE	COOLING CAP. BTUH (1) SENSIBLE	COOLING CAP. BTUH (1) TOTAL	AUX. HEAT (2) K.W.	AUX. HEAT (2) STGS.	ELECTRICAL DATA (3) VOLTAGE	ELECTRICAL DATA (3) PHASE	ELECTRICAL DATA (3) M.C.A.	ELECTRICAL DATA (3) M.O.C.P.	CARRIER MODEL NO.	NOTES
IHP-1	1520	0.5	200	3/4	DIRECT	33,120	44,530	9	1	208	1	47.4	50	FT4BNXC48	(4)
IHP-2	1520	0.5	200	3/4	DIRECT	33,120	44,530	9	1	208	1	47.4	50	FT4BNXC48	(4)
IHP-3	1520	0.5	200	3/4	DIRECT	33,120	44,530	9	1	208	1	47.4	50	FT4BNXC48	(4)
IHP-4	1520	0.5	200	3/4	DIRECT	33,120	44,530	9	1	208	1	47.4	50	FT4BNXC48	(4)

(1) RATINGS IN ACCORDANCE WITH A.R.I. STANDARD 240.
(2) HEATER SIZED AT 208 VOLT. COORDINATE WITH ELECTRICAL PLANS.
(3) ELECTRICAL DATA PROVIDED IS BASED ON EQUIPMENT SELECTED AS BASIS OF DESIGN. VERIFY ELECTRICAL REQUIREMENTS WITH ELECTRICAL PLANS AND/OR CONTRACTOR BEFORE ORDERING EQUIPMENT. NOTIFY ENGINEER IMMEDIATELY IF ANY DISCREPANCIES ARE FOUND. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ELECTRICAL DATA IF OTHER MANUFACTURERS ARE FURNISHED.
(4) FURNISH TWO STAGE COOLING.

OUTDOOR HEAT PUMP SCHEDULE

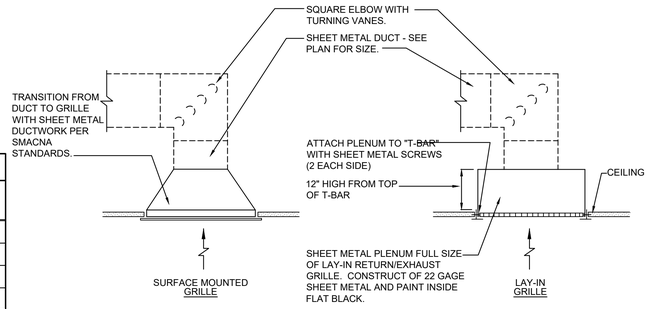
ITEM	COOLING CAPACITY (1) BTUH	SEER2 MIN.	HEATING CAP. M.B.H.(1) HI	HEATING CAP. M.B.H.(1) LO	HSPF2	C.O.P. (1) HI	C.O.P. (1) LO	ELECTRICAL DATA (2) VOLTAGE	ELECTRICAL DATA (2) PHASE	ELECTRICAL DATA (2) M.C.A.	ELECTRICAL DATA (2) M.O.C.P.	CARRIER MODEL NO.
OHP-1	44,530	16.5	47.6	29.3	8.1	3.62	2.76	208/230	1	33.5	50	25TPB748 (3)
OHP-2	44,530	16.5	47.6	29.3	8.1	3.62	2.76	208/230	1	33.5	50	25TPB748 (3)
OHP-3	44,530	16.5	47.6	29.3	8.1	3.62	2.76	208/230	1	33.5	50	25TPB748 (3)
OHP-4	44,530	16.5	47.6	29.3	8.1	3.62	2.76	208/230	1	33.5	50	25TPB748 (3)

(1) RATINGS IN ACCORDANCE WITH A.R.I. STANDARD 240.
(2) ELECTRICAL DATA PROVIDED IS BASED ON EQUIPMENT SELECTED AS BASIS OF DESIGN. VERIFY ELECTRICAL REQUIREMENTS WITH ELECTRICAL PLANS AND/OR CONTRACTOR BEFORE ORDERING EQUIPMENT. NOTIFY ENGINEER IMMEDIATELY IF ANY DISCREPANCIES ARE FOUND. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ELECTRICAL DATA IF OTHER MANUFACTURERS ARE PROVIDED.
(3) FURNISH TWO STAGE COOLING.

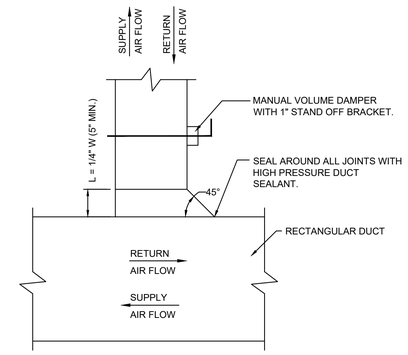
REFRIGERATION PIPE SCHEDULE

ITEM	SUCTION LINE O.D. (1)	LIQUID LINE O.D.(1)
IHP-1/OHP-1	7/8"	3/8"
IHP-2/OHP-2	7/8"	3/8"
IHP-3/OHP-3	7/8"	3/8"
IHP-4/OHP-4	7/8"	3/8"

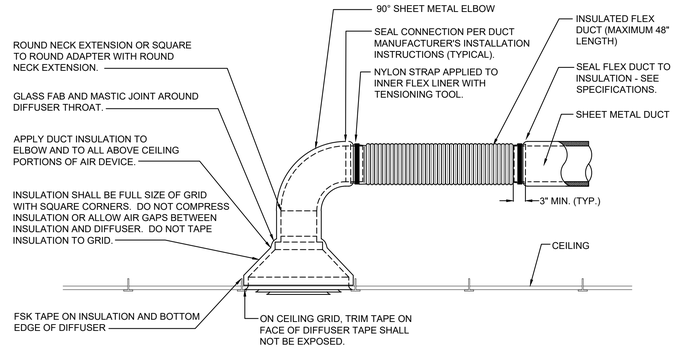
(1) REFRIGERANT PIPE SIZES INDICATED ARE FOR ESTIMATING PURPOSES ONLY. EXACT SIZES AND ACCESSORIES REQUIRED SHALL BE DETERMINED BY EQUIPMENT MANUFACTURER FROM FIELD OBTAINED DIMENSIONS.



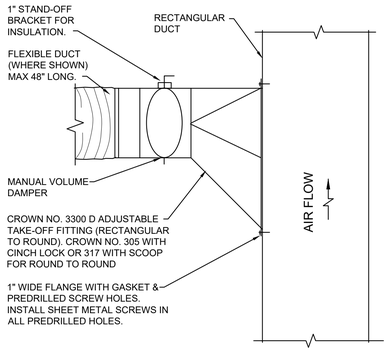
1 / M2.0 EXHAUST/RETURN GRILLE CONNECTION DETAILS
SCALE: NONE



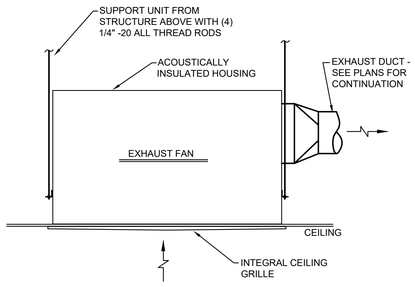
2 / M2.0 RECTANGULAR TAKE-OFF DETAIL FOR SUPPLY AND RETURN DUCTWORK
SCALE: NONE



3 / M2.0 ROUND DUCT CONNECTION DETAIL
SCALE: NONE



4 / M2.0 SUPPLY DUCT TAKEOFF FITTING DETAIL
SCALE: NONE



5 / M2.0 CEILING FAN DETAIL
SCALE: NONE

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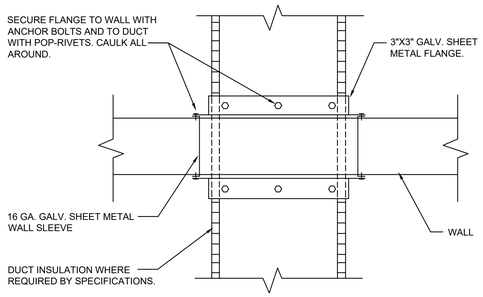
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HVAC NOTES, LEGEND, SCHEDULES, & DETAILS

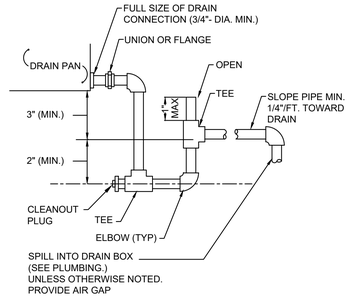
M2.0

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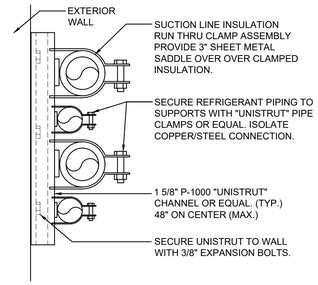
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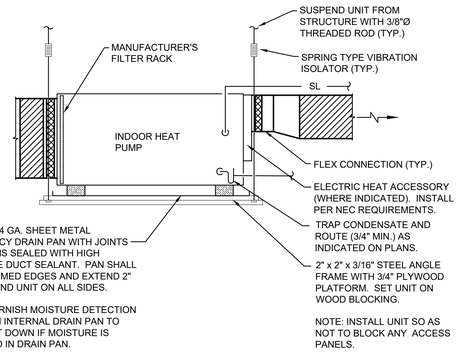
1 M2.1 DUCT SLEEVE DETAIL
SCALE: NONE



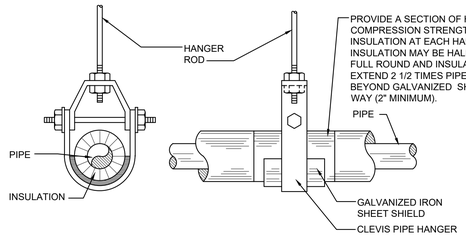
2 M2.1 CONDENSATE DRAIN DETAIL
SCALE: NONE



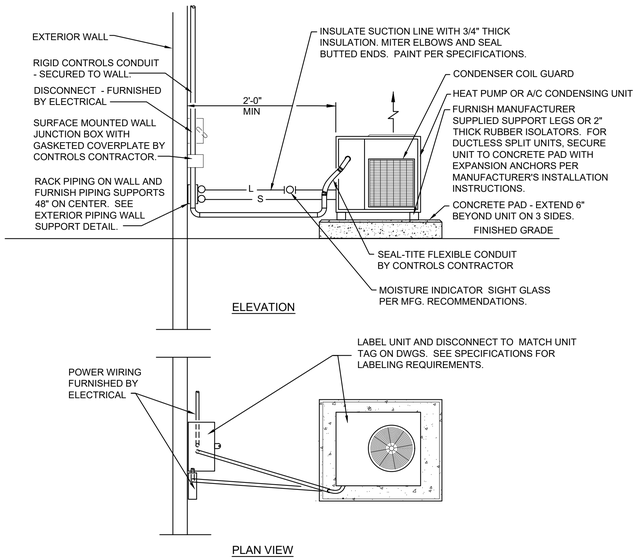
3 M2.1 EXTERIOR PIPING WALL SUPPORT DETAIL
SCALE: NONE



6 M-2.1 INDOOR HEAT PUMP DETAIL
SCALE: NONE



5 M2.1 PIPE HANGER DETAILS
SCALE: NONE



4 M2.1 EXTERIOR HVAC UNIT DETAIL
SCALE: NONE

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COLDBROOK PLAZA BUILDING #2
OLD RICHMOND ROAD
PORT WENTWORTH, GA

BID SET

HVAC DETAILS

M2.1

2023-218

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H.V.A.C. SPECIFICATIONS

GENERAL:

A. Entire system shall be installed to meet all applicable Local, State and National Codes, current requirements of NFPA, State of Georgia Heating and Air Conditioning Code and National Electric Code.

B. HVAC Subcontractor shall have a current Class II Conditioned Air Contractors License for the state in which the project is being constructed.

C. These specifications and all accompanying HVAC drawings are intended to provide for all labor, materials, and equipment necessary for the installation of a complete and functioning HVAC system.

D. All equipment shall be installed in accordance with the manufacturer's written instructions. Installing contractor shall furnish fully functioning systems.

E. The accompanying drawings are schematic only and are not intended to show all fittings, transitions, connections, offsets, etc. unless specifically shown. Install work as closely as possible to conform to the structural conditions, equipment, and work of other trades and the intent of the drawings, without addition cost to the owner.

F. Drawings shall not be scaled. Refer to architectural drawings for dimensions. Refer to drawings of other trades and coordinate all equipment be installed in accordance with manufacturer's installation instructions.

G. Existing work is not necessarily installed as shown on the plans. Contractor is responsible for verifying actual job site conditions prior to ordering equipment and fabricating duct. Any discrepancies found shall be reported to the Owner/Engineer.

H. Furnish 3000 psi 6-inch-thick concrete pad for equipment where designated on the plan. Pads shall be reinforced with 6" x 6" 1010 wire and shall have chamfered edges. Concrete pads shall extend 6" beyond all sides of unit.

I. All equipment shall be labeled with black plastic engraved equipment tags with minimum 1" lettering.

J. Furnish a digital copy of Operating and Maintenance Instructions on each piece of HVAC equipment at project closeout.

K. Furnish formal training to familiarize the Owner in the operation and maintenance of all the HVAC Systems including controls.

SHOP DRAWINGS:

A. Submit pdf set of Shop Drawings for approval of all HVAC equipment, accessories, insulation materials, and controls to be used on this project. Shop drawings shall be submitted before any materials or equipment incorporated in this work has been ordered. Shop drawings shall include the name and address of the manufacturer with items to be furnished and capacities and characteristics clearly marked.

B. Contractor shall obtain written approval from the engineer/ architect for the use of substitute materials claimed as equal to those specified 10 days prior to the bid date.

C. Equipment of greater or larger power, dimensions, capacities, and ratings may be furnished provided such proposed equipment is approved in writing and connecting mechanical and electrical services, circuit breakers, conduit, motors, bases, and equipment spaces are increased. No additional costs will be approved for these increases, if larger equipment is approved. If minimum energy ratings or efficiencies of the equipment are specified, the equipment must meet the design requirements and commissioning requirements.

D. The equipment listed on the Drawings is considered basis of design equipment and has been used for the physical arrangement of the mechanical systems. When other equipment listed in the specifications as acceptable, equal or equipment which has received "prior approval" is used, it shall be the Contractor's responsibility to provide structural, ductwork, electrical, service clearances, or other changes required to accommodate the substituted equipment. Changes to use non basis of design equipment shall be made at no additional cost to the Owner. Submit a list of required changes along with all prior approval requests and shop drawing submittals.

E. Approval of shop drawings and or submitted data shall not relieve the contractor of the responsibility to comply with the requirements and intent of the plans and specifications with regard to dimensions, capacities, quantities, performance characteristics, etc.

ELECTRICAL:

A. All line and low voltage control wiring shall be furnished by the HVAC Contractor. Provide complete wiring diagrams and all switches, starters, controls, relays, etc. necessary for a complete system. Run all wiring in EMT raceways.

B. Voltage and phase of mechanical equipment requiring power shall be designated by the Owner. Model numbers listed in mechanical equipment schedule shall not be construed to indicate electrical characteristics.

C. Piping, equipment, and other mechanical installations shall not be located within 42" of the front or 36" of the side of any electrical switchboards, panelboards, power panels, motor control centers, electrical transformers or similar electrical equipment. Piping and ductwork shall not pass through or above electrical equipment rooms except as required to serve those rooms.

DUCTWORK:

A. Low Pressure, Metal: Fabricate of galvanized steel as per SMACNA Manual for HVAC Duct Construction Standards, tables 1-3 through 1-19 including associated details. Use water based joint and seam sealant, resistant to UV light when cured, UL 723 listed, and complying with NFPA requirements for class 1 ducts to seal joints. Duct tape is not an acceptable product. Seal duct in accordance with ASHRAE standard 90.1.

B. Low Pressure round duct shall be rated for 1 inch positive pressure per SMACNA (snap-lock ductwork is acceptable).

C. All round and oval medium pressure duct shall be machine made, spiral, Uniseal ducts as manufactured by United Sheet Metal Co., Semco, Dixie or R.V. Money. Branch take-off fittings shall be conical tee connections unless otherwise indicated. Pipe-to-pipe joints shall be sleeve couplings. Joints shall be sealed with United Spiral EC-800, M.E.I. 4441, Childers CP-72 or Foster 30-02 high pressure duct sealer. Duct shall be rated for 10-inch positive and 2-inch negative pressure.

D. Insulated flexible round duct: Shall be Flexmaster Type 3M or equal products by Thermoflex, Cleveflex or Atco. Reinforced with steel wire helix encapsulated in the inner liner with silver mylar, glass reinforced outer jacket. Rated for 10" wg, positive pressure. Minimum R value = 6.0. Met UL 181 Class 1 air duct requirements. Flexible duct shall not exceed 4 feet in length and shall be supported 3 feet maximum on center with 3" wide by 26 gauge galvanized hangers. Duct shall be secured to branch ducts and outlets with stainless steel worm drive strap or nylon self-locking strap around the inner liner only.

E. All ductwork shall be supported in accordance with SMACNA Standards.

DUCT ACCESSORIES:

A. Turning Vanes: Use single thick vanes in square elbows. Fabricate according to SMACNA HVAC Duct Construction Standards, Figures 2-2 through 2-7.

B. Manual Dampers: For rectangular duct: Opposed blade, constructed with galvanized gauge steel blades and equal to SMACNA DCS Fig. 2-15. End of damper operating rod shall be square to accommodate damper operator. Manual dampers 12" or smaller in height may be single blade type equal to SMACNA DCS Fig 2-14 constructed of galvanized sheet metal.

C. Round damper shall be SMACNA DCS Fig 2-14 with blade gauge as follows: 8" and smaller = 22 gauge, 9" - 12" = 20 gauge, 13" and larger = 18 gauge.

D. Access Doors: As per SMACNA Fig. 2-12.

E. Grille and register connections: As per SMACNA Fig. 2-16.

F. Fire dampers shall be curtain type and dynamically rated, U.L. Classified for 1-1/2 or 3 hour (as indicated on architectural) fire resistance.

PIPING:

A. Refrigerant piping shall be ACR nitrogen charged tubing with joints made with Sil-fos or equal high temperature (1200 degrees F.) brazing compound. Bleed dry nitrogen through piping during brazing process. After satisfactory leak test, piping and system shall be evacuated and charged in accordance with the manufacturer's printed instructions.

B. Condensate drain piping: Type "L" drawn-temper copper tubing with soldered joints.

INSULATION:

A. Ductwork: Insulate lined and unlined supply, outdoor air, and return ductwork within building envelope with 3/4 lb. 2" thick fiberglass blanket insulation with FSK jacket. (Use 3" insulation for duct outside of building envelope) Lap all joints 2" minimum, staple 4" o.c. and seal with vapor barrier adhesive reinforced with fiber glass mesh ("glas-fab"). Use Stik-clips 24" on center on bottom of 30" wide and larger ducts. Insulate top of all air device surfaces.

B. Refrigerant Pipe: Insulate with 3/4" thick flexible elastomeric insulation. Seal all joints with adhesive. Slip whole sections of insulation on piping before pipe joints are made. Miter all elbows. Paint outdoor insulation two coats of manufacturer's recommended coating.

C. Refrigerant Piping used in variable refrigerant flow systems: Indoor for all pipe sizes insulation shall be ¾" thick flexible Elastomeric. Outdoor piping insulation shall be 1 inch thick flexible elastomeric.

D. Duct Liner: 1 1/2 lbs. density, 1" thick with surface coated to prevent glass fibers from getting into airstream. Flame spread rating less than 25 and smoke spread rating less than 50. Adhere liner and cover entire surface with thick coat of adhesive that complies with NFPA 90A and ASTM C916. Fasten liner with weld pins 12" o.c. in accordance with SMACNA Duct Liner Application Standard.

E. Air conditioning Condensate Piping: 3/8" flexible elastomeric insulation for interior applications.

HANGERS:

A. Support pipe from structure above with Grinnell CT-99 hanger, all thread rod and Fig. 86 C-clamp. Provide supplementary steel for upper attachment. Hangers shall fit around insulated pipe and shall have 24-gauge galvanized sheet metal saddle.

TESTS:

A. Refrigerant Piping: Pressure test with dry nitrogen to 200 psig in accordance with ASME B31.5, Chapter VI. Perform final tests at 27-psig vacuum and 200 psig using halide torch or electronic leak detector. Test to no leakage.

B. Heat Pump Units: Record all motor and heater nameplate amps and running amps during Heating and Cooling cycle (below 60 degrees F. cooling). Complete manufacturer's installation and startup checks. Furnish startup sheets to owner at project closeout.

C. Air Side: Record air quantities at supply outlets, return grilles, exhaust grilles, and outside air duct. All airflow quantities shall be balanced to be within + or - 10% of design air quantity. Test and balance shall be performed by an AABC certified agent. Submit reports on AABC forms to engineer to review.

SPLIT SYSTEM HEAT PUMP:

A. Unit shall be of size, type and capacity as indicated on the Drawings and shall be manufactured by Carrier. Equal units by Lennox or Trane will be acceptable.

B. The following accessories shall be furnished: Condenser Coil Guard, 5-minute Anti-Recycle Timer, Hard Start Kit for Single Phase Units, Crankcase Heater, Outdoor Thermostat for each Auxiliary Heat Stage, Defrost Thermostat for Indoor Coil, Low Ambient Controls, Outdoor air thermostat to prevent resistant heat from energizing above 45 degrees F.

C. Auxiliary electric heaters shall be of size and capacity as indicated on the Drawings and meet the requirements of the National Electric Code and Underwriters Laboratories.

EXHAUST FANS:

A. Exhaust fans shall be of size, type and capacity as shown on the drawings and shall be manufactured by Greenheck. Equal products by Ilg, Acme, Penn, Jenn-Air or Loren Cook are acceptable.

B. Ceiling Mounted: shall be furnished with speed controller, disconnect switch, ceiling grille.

CONTROLS:

A. Installation shall be in accordance with HVAC equipment manufacturer's wiring diagrams. Control components shall form a fully functional system.

B. HVAC unit thermostats shall be manufacturer's standard electronic 7-day programmable model having an Off-Em-Ht.-Heat-Auto-Cool System switch and an Auto-On Fan switch. Provide multi-stage heating and cooling thermostat where controlled unit has multi-stage capability. Outdoor thermostat shall prevent strip heat from being energized above 45 degrees F. (Emergency heat position not required for non-heat pump unit.) Furnish unit with the following features: Override function, Proportional plus integral control, Automatic changeover, and Keypad lockout.

C. Sequence of Operation:

Heat pump units: Units shall be controlled by programmable heat pump thermostats. The compressor, heat/cool reversing valve and supply fan shall energize in heating or cooling mode as required to satisfy the thermostat set point. When the compressor is unable to meet the heating requirements, the auxiliary strip heat shall energize. When outdoor air temperature is above 45ºF (adjustable), resistance heat shall not be energized. Occupied and unoccupied set points shall be coordinated with the owner.

Fans: Refer to fan schedule. Where fans are indicated to be interlocked with the room lights furnish starters/contactors as required for control operation.

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GEORGIA REGISTERED NO. PE28656 PROFESSIONAL ENGINEER CAPRICE BAUMGRASS 12-4-24

BUILDING #2
COLDBROOK PLAZA
OLD RICHMOND ROAD
PORT WENTWORTH, GA

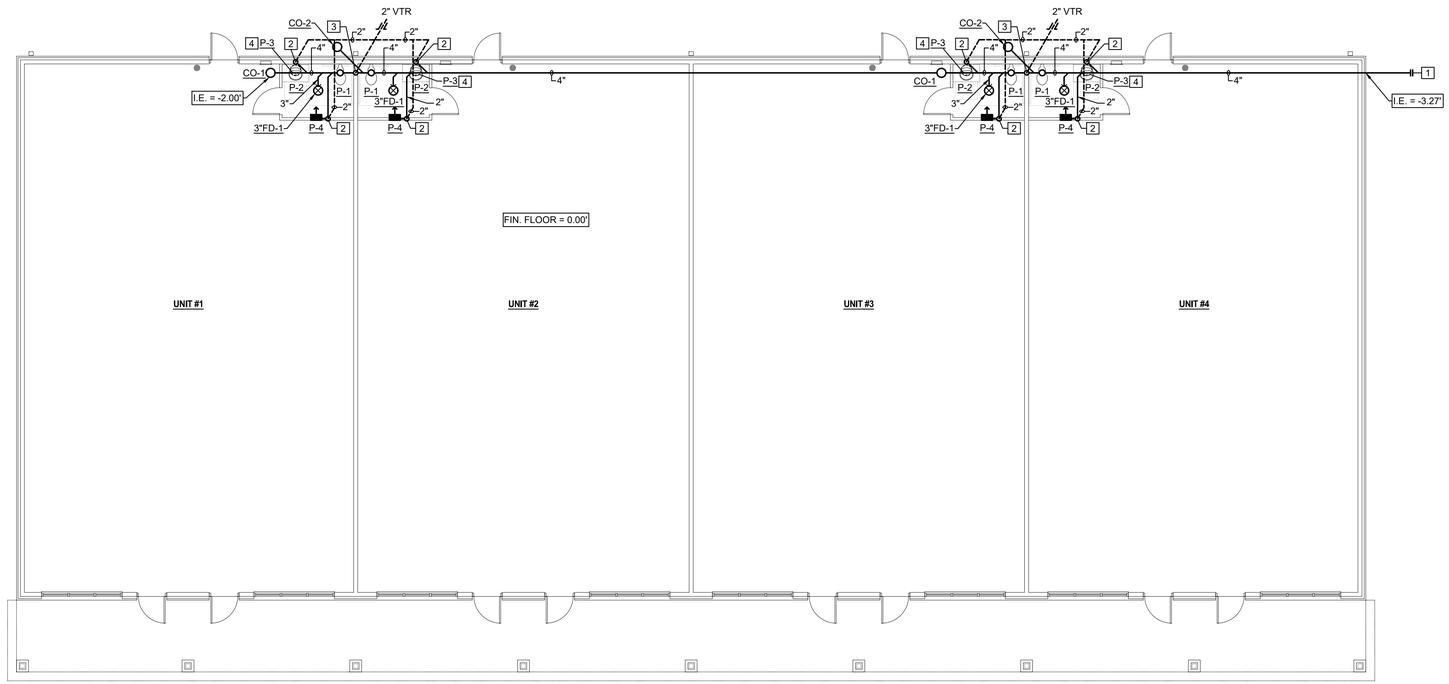
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HVAC SPECIFICATIONS

M3.0



1 P1.0 PLUMBING WASTE & VENT PIPING PLAN

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

8' 0' 8' 16' 24' 32'

GRAPHIC SCALE IN FEET

KEY NOTES - THIS SHEET

1. EXTEND TO 5'-0" BEYOND BUILDING AND PROVIDE TEMPORARY CAP. CONTINUATION BY OTHERS.
2. 2" WASTE, 2" VENT
3. 2" VTR
4. WATER HEATER LOCATED ON PLATFORM ABOVE LAVATORY. SEE DETAIL 10/P3.0.

NOTE: ALL VENTS SHALL BE EXTENDED THRU ROOF AND SHALL MAINTAIN 10'-0" CLEARANCE FROM FRESH AIR INTAKES. (TYPICAL)

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BUILDING #2
COLDBROOK PLAZA
OLD RICHMOND ROAD

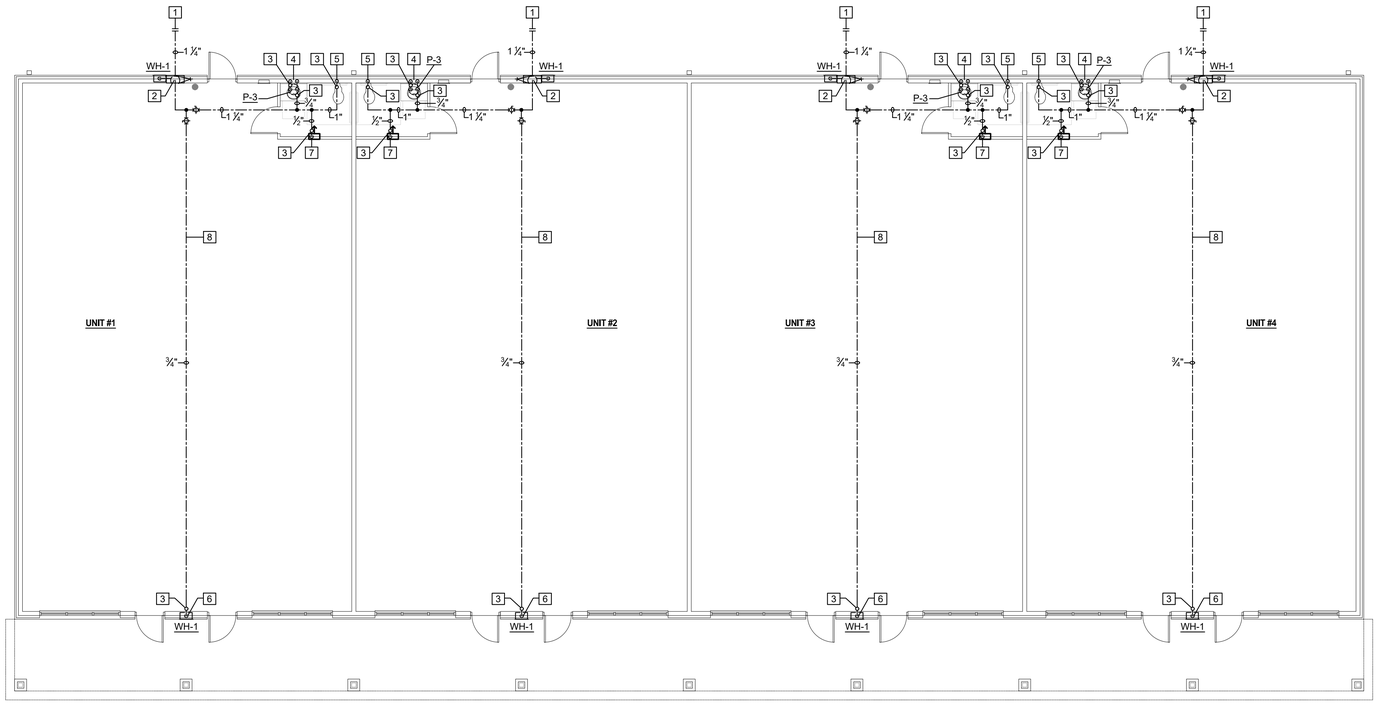
BID SET

PLUMBING WASTE & VENT PIPING PLAN

P1.0

2023-218

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1 P2.0 PLUMBING WATER PIPING PLAN

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

8' 0' 8' 16' 24' 32'

GRAPHIC SCALE IN FEET

KEY NOTES - THIS SHEET

1. EXTEND TO 5'-0" BEYOND BUILDING AND PROVIDE TEMPORARY CAP. CONTINUATION BY OTHERS.
2. 1 ½" CW UP IN WALL BETWEEN STUDS. PROVIDE GATE VALVE ON RISER ± 12" A.F.F. WITH WALL HYDRANT (WH) 18" A.F.G. PROVIDE 12"X12" ACUDOR OR ENGINEER APPROVED EQUIVALENT ACCESS PANEL. COORDINATE LOCATION WITH ARCHITECT.SEE DETAIL 11/P3.0.
3. INDICATES NEW SHOCK ABSORBER (SA) "X". UNLESS NOTED ON DRAWINGS, SIZE SHALL BE "A". PROVIDE BALL VALVE ON CONNECTION TO SA. SEE DETAIL 7/P3.0.
4. ¾" CW DOWN. ½" CW DOWN TO AND ½" HW UP FROM WATER HEATER ON PLATFORM ABOVE LAVATORY. ½" CW, HW DOWN TO LAVATORY. SEE DETAIL 10/P3.0.
5. 1" CW TO WATER CLOSET.
6. ¾" CW DOWN TO WALL HYDRANT.
7. ½" CW DOWN TO CONDENSATE DRAIN BOX. SEE DETAIL 6/P3.0.
8. ROUTE PIPING HIGH ALONG STRUCTURE.

NOTE: PROVIDE NUMBERED VALVE TAG ON CEILING AT EACH VALVE LOCATION. (TYPICAL)

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BUILDING #2
COLDBROOK PLAZA
OLD RICHMOND ROAD

BID SET

ISSUE OR REVISION

PLUMBING WATER PIPING PLAN

P2.0

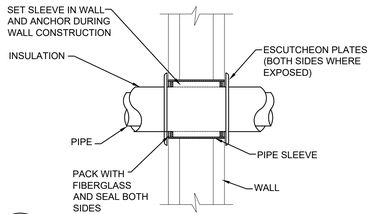
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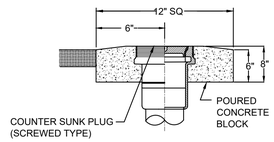


WHITE BAKELITE PLATE WITH BLACK ½" LETTERS. PROVIDE AT EACH VALVE LOCATION. CONTRACTOR SHALL INDICATE VALVE NUMBER AND TAG WITH LOCATIONS ON FINAL AS BUILT DOCUMENTS. TAG SHALL BE SECURED TO CEILING "T-BAR" WITH POP RIVETS.

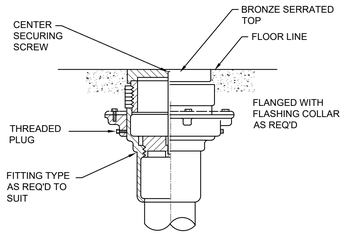
1 P3.0 VALVE TAG DETAIL
NOT TO SCALE



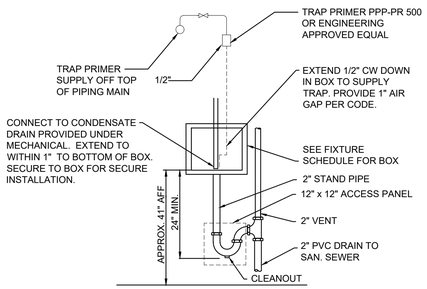
5 P3.0 PIPE SLEEVE THRU WALL DETAIL
NOT TO SCALE



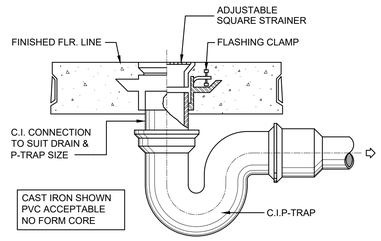
9 P3.0 EXTERIOR CLEANOUT DETAIL
NOT TO SCALE



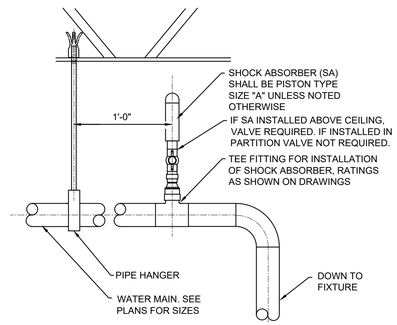
2 P3.0 INTERIOR CLEANOUT DETAIL
NOT TO SCALE



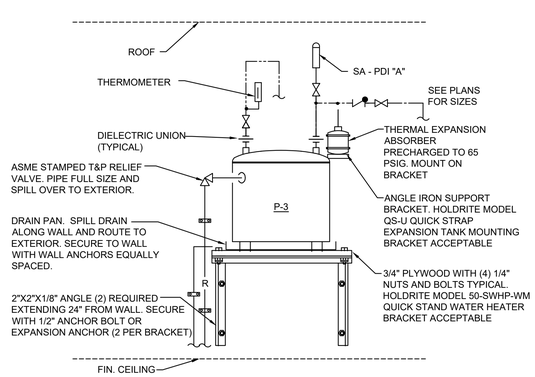
6 P3.0 CONDENSATE DRAIN BOX DETAIL
NOT TO SCALE



3 P3.0 TYPICAL FLOOR DRAIN DETAIL
NOT TO SCALE



7 P3.0 SHOCK ABSORBER DETAIL
NOT TO SCALE



10 P3.0 PLATFORM WATER HEATER DETAIL
NOT TO SCALE

PLUMBING FIXTURE SCHEDULE									
SYM	FIXTURE	PIPE SIZES (IN.)				RIM HT/ MTG HT	MANUF.	MODEL	DESCRIPTION	NOTE
		W	V	CW	HW					
P-1	WATER CLOSET H/C	4	-	1	-	ADA	SLOAN	ST-2029-A	SLOAN 8111-1.28, 1.28 SENSOR FLUSHVALVE; CENTOCO 500CC ELONGATED SEAT	①
P-2	LAVATORY H/C (DROP IN)	2	2	1/2	1/2	ADA	SLOAN	SS-3002	SLOAN SF-2350 BATTERY SENSOR FAUCET; SUPPLIES, STOPS, WASTE	①②
P-3	WATER HEATER	-	-	1/2	1/2	-	A.O. SMITH	DEL-10	10 GALLON; 208V / 1ϕ, 3KW, UEF = N/A	
P-4	CONDENSATE DRAIN BOX	2	2	1/2	-	-	OATEY	37557	MODA; DRAIN FUNNEL, COVER PLATE	
FD-1	FLOOR DRAIN (GENERAL)	3	-	-	-	-	J.R. SMITH	2005L-Y-A06-NB	CAST IRON, NO HUB, SPEEDI-SET	④⑤
WH-1	WALL HYDRANT	-	-	3/4	-	12" INT 18" EXT	J.R. SMITH	5509QT-R		
CO-1	CLEANOUT INTERIOR	4	-	-	-	-	J.R. SMITH	4031	CAST IRON, SURFACE MEMBRANE CLAMP	③
CO-2	CLEANOUT EXTERIOR	4	-	-	-	-	J.R. SMITH	4291		

PLUMBING FIXTURE KEY NOTES:

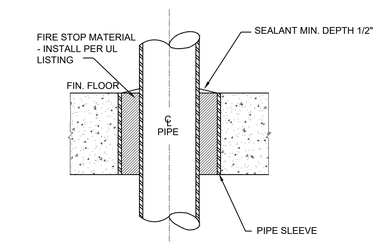
1. MOUNT AT ADA HEIGHT. ADA SHALL CONFORM TO ACCESSIBILITY CODE. REFER TO CODE FOR GUIDANCE. WHERE CONFLICTS ARISE BETWEEN ARCHITECTURAL DRAWINGS AND MECHANICAL DRAWINGS, ARCHITECTURAL DRAWING SHALL GOVERN.
2. PROVIDE PROTECTIVE PIPE COVERS FOR ALL HANDICAP LAVATORIES
3. PROVIDE CARPET MARKERS FOR CARPETED AREAS
4. PROVIDE 7" STRAINER ON 3" DRAIN AND 9" STRAINER ON 4" DRAINS. PROVIDE SUFFIX "M" (SQUARE TOP) FOR QUARRY TILE AND CERAMIC TILE FLOORS AND SUFFIX "A" (ROUND TOP) FOR ALL OTHER FLOORS.
5. PROVIDE TRAP GUARDS ON ALL HUB DRAINS AND FLOOR DRAINS. IF APPROVED BY LOCAL AHJ. IF NOT APPROVED PROVIDE TRAP PRIMERS

GENERAL PLUMBING NOTES

1. EXACT LOCATIONS AND ROUGHING REQUIREMENTS FOR ALL FIXTURES AND EQUIPMENT SHALL BE DETERMINED FROM ARCHITECTURAL DRAWINGS. LARGE SCALE ARCHITECTURAL DETAILS AND APPROVED MANUFACTURER'S SHOP DRAWINGS. PARTICULAR ATTENTION SHALL BE DIRECTED TO FIXTURES OR EQUIPMENT FURNISHED UNDER OTHER DIVISIONS.
2. INVERT ELEVATIONS SHOWN SHALL BE VERIFIED ON THE JOB BEFORE INSTALLING ANY NEW PIPE.
3. INSTALL TEST-TEES WHEN SANITARY SEWER SYSTEM IS TO BE TESTED IN SECTIONS.
4. PIPING IS SHOWN IN ITS GENERAL LOCATION (UNLESS DIMENSIONED). EXACT LOCATION SHALL BE DETERMINED BY JOB CONDITIONS. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF HI WORK WITH THAT OF OTHER TRADES AND ARRANGE PIPING TO CLEAR STRUCTURAL MEMBERS AND DUCTWORK. RISERS FOR FIXTURES, UNLESS OTHERWISE NOTED, SHALL BE CONCEALED IN WALLS OR PIPE CHASES.
5. MINIMUM SIZE WATER LINE FOR ANY TWO FIXTURES SHALL BE ¾". REFER TO PLUMBING FIXTURE SCHEDULE FOR INDIVIDUAL FIXTURE RUNOUT SIZES.
6. INSTALL UNDERGROUND WATER LINE(S) ABOVE SOIL AND WASTE LINE(S). WATER LINE SAME TRENCH WITH SOIL OR WASTE LINE SHALL BE INSTALLED ON AN UNDISTURBED EARTH LEDGE WITH BOTTOM OF WATER LINE 12" (MIN) ABOVE TOP OF SOIL OR WASTE LINE. IPC CODE REQUIREMENTS SHALL GOVERN FINAL INSTALLATION.
7. INSTALL ALL EXTERIOR WALL HYDRANTS 18" ABOVE FINISH GRADE (A.F.F.) EXCEPT AS NOTED OTHERWISE.
8. PROVIDE A MINIMUM COVER OF 24" FOR ALL LINES EXCEPT AS NOTED OTHERWISE ON CONTRACT DRAWINGS.
9. PROVIDE SLEEVES PER IPC REQUIREMENTS FOR PIPE PASSING THRU FLOOR, MASONRY WALLS AND FIRE OR SMOKE PARTITIONS. PACK ANNULAR SPACE BETWEEN PIPE WITH MATERIAL APPROVED IN U.L. BUILDING DIRECTORY OR AS DIRECTED BY IPC OR IBC REQUIREMENTS.
10. INSTALL INTERIOR HOSE BIBBS 20" ABOVE FINISHED FLOOR (A.F.F.) EXCEPT AS NOTED OTHERWISE. WHERE HOSE BIBBS ARE INSTALLED ADJACENT TO FIXTURES STOPS, INSTALL HOSE BIBBS AT SAME CENTERLINE ELEVATIONS AS FIXTURE STOPS.
11. REFER TO ARCHITECTURAL FINISH SCHEDULE AND ELEVATIONS FOR DETAILS OF FLOOR WHERE FLOOR DRAINS ARE TO BE INSTALLED.
12. IT SHALL BE CONTRACTORS RESPONSIBILITY TO COORDINATE THIS INSTALLATION WITH THAT OF OTHER TRADES TO ENSURE COMPLETE INSTALLATION. CONTRACTOR SHALL VERIFY ROUTING OF ALL PIPING AND ADJUST AS NECESSARY TO AVOID CONFLICTS WITH THAT OF OTHER TRADES AND OR STRUCTURAL MEMBERS.

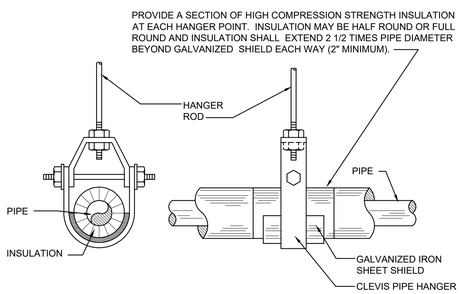
PLUMBING LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	VENT	VTR	VENT THRU ROOF
	WASTE OR SANITARY SEWER		BALL VALVE
	COLD WATER		CHECK VALVE
	HOT WATER		SHUTOFF VALVE
TYP.	TYPICAL	PDI "X"	SHOCK ABSORBER
U.O.N.	UNLESS OTHERWISE NOTED	CO	CLEANOUT
		FD	FLOOR DRAIN

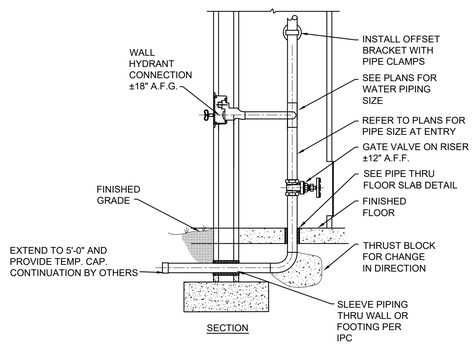


FIRE STOP MATERIAL NOT REQUIRED FOR PIPE SLAB ON GRADE.

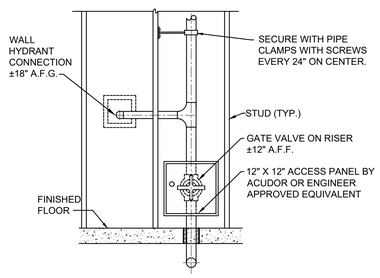
4 P3.0 PIPE THRU FLOOR SLAB DETAIL
NOT TO SCALE



8 P3.0 PIPE HANGER DETAILS
NOT TO SCALE FOR PIPE 2 1/2" AND SMALLER



SECTION



ELEVATION

11 P3.0 WATER RISER DETAIL
NOT TO SCALE

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BUILDING #2
COLDBROOK PLAZA
OLD RICHMOND ROAD

BID SET

PLUMBING NOTES, LEGEND, & SCHEDULES

P3.0

PLUMBING SPECIFICATIONS:

GENERAL:

A. DRAWINGS AND GENERAL PROVISIONS OF THE CONTRACT INCLUDING GENERAL AND SUPPLEMENTARY CONDITIONS APPLY TO THIS SECTION

B. PLUMBING WORK SHALL BE PERFORMED AS OUTLINED BELOW

C. THESE SPECIFICATIONS AND ACCOMPANYING PLUMBING DRAWINGS ARE INTENDED TO PROVIDE FOR ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY FOR THE INSTALLATION COMPLETE OF ALL PLUMBING FIXTURES, EQUIPMENT, ROUGH-INS, WASTE VENT SYSTEMS, COLD WATER SYSTEMS, HOT WATER SYSTEMS AND ACCESSORIES INCLUDING NECESSARY APPARATUS, VALVES AND FITTINGS HEREINAFTER DESCRIBED OR CALLED FOR ON THE PLUMBING DRAWINGS ACCOMPANYING THESE SPECIFICATIONS. WHERE CONFLICTS ARISE BETWEEN ARCHITECTURAL DRAWINGS AND PLUMBING DRAWINGS, CONTRACTOR SHALL COORDINATE CORRECT CONFIGURATION AND ADJUST AS NECESSARY FOR COMPLIANT INSTALLATION.

D. ALL PLUMBING WORK SHALL BE INSTALLED WITH IN ACCORDANCE WITH THE INTERNATIONAL PLUMBING CODE LATEST ADDITION OR IN COMPLIANCE WITH AUTHORITY HAVING JURISDICTION REQUIREMENTS.

E. THE CONTRACTOR SHALL SECURE ALL REQUIRED PERMITS AND INSPECTION FEES NECESSARY FOR THIS WORK.

F. THE ACCOMPANYING DRAWINGS ARE SCHEMATIC ONLY AND ARE NOT INTENDED TO SHOW ALL FITTINGS, BOLTS, CONNECTIONS, OFFSETS, ETC., UNLESS SPECIFICALLY SHOWN. FOLLOW DRAWINGS AS CLOSELY AS POSSIBLE, PROVIDE ALL ADJUSTMENTS AS NECESSARY TO CONFORM TO THE STRUCTURAL CONDITIONS, EQUIPMENT, WORK OF OTHER TRADES AND THE INTENT OF THE DRAWINGS, WITHOUT COST TO THE OWNER. PLUMBING DRAWINGS SHOULD NOT BE SCALED. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS. REFER TO DRAWINGS OF OTHER TRADES AND COORDINATE. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS.

SCOPE OF WORK:

A. THE CONTRACTOR SHALL BE REQUIRED TO PERFORM ALL OF THE FOLLOWING WORK IN GENERAL AND PROVIDING A COMPLETE PLUMBING SYSTEM AS SHOWN ON THE PLANS. THE ITEMS IN GENERAL ARE TO BE AS FOLLOWS:

1. FURNISH AND INSTALL COMPLETE WASTE AND VENT SYSTEM WITH CONNECTIONS TO SERVICES AS SHOWN ON THE PLUMBING DRAWINGS AND HEREIN SPECIFIED.

2. FURNISH AND INSTALL HOT WATER SYSTEM COMPLETE WITH CONNECTIONS TO POINT AS SHOWN ON THE PLUMBING DRAWINGS AND HEREIN SPECIFIED.

3. FURNISH AND INSTALL COLD WATER SYSTEM COMPLETE WITH CONNECTIONS TO POINT AS SHOWN ON THE PLUMBING DRAWINGS AND HEREIN SPECIFIED.

CONNECTION TO EXISTING UTILITIES:

A. EXISTING UTILITIES SHOWN ARE APPROXIMATE AND SHALL NOT BE DETERMINED TO BE EXACT CONNECTION LOCATIONS. CONTRACTOR MUST VERIFY EXACT LOCATIONS, SIZES, INVERTS, AND CONDITION OF EXISTING UTILITIES PRIOR TO CONNECTIONS. FAILURE TO ACCURATELY LOCATE AND IDENTIFY EXISTING UTILITIES SHALL NOT INCUR ADDITIONAL COST FOR REPAIRS OR RECONNECTIONS OF NEW TO EXISTING UTILITIES.

LIST OF MATERIALS, FIXTURES, AND EQUIPMENT:

A. THE PLUMBING CONTRACTOR SHALL OBTAIN WRITTEN APPROVAL FROM THE ENGINEER/ ARCHITECT FOR THE USE OF SUBSTITUTE MATERIALS CLAIMED AS EQUAL TO THOSE SPECIFIED. SUCH APPROVAL MUST BE OBTAINED AS SOON AFTER CONTRACT AWARDS AS POSSIBLE AND BEFORE ANY MATERIALS ARE ORDERED. APPLICATIONS FOR APPROVAL SHALL BE MADE BY THE PLUMBING CONTRACTOR ONLY AND NO OTHER APPLICATIONS SHALL BE ACCEPTED. THE PLUMBING CONTRACTOR SHALL SUBMIT FOR APPROVAL WITHIN TEN (10) DAYS FOLLOWING AWARD OF CONTRACT AND WRITTEN NOTICE TO BEGIN THE WORK A COMPLETE LIST OF MATERIALS PROPOSED FOR THE JOB. ALL LIKE ITEMS SHALL BE BY ONE MANUFACTURER. NO FURTHER SUBSTITUTIONS SHALL BE ACCEPTED AFTER APPROVED BY ENGINEER / ARCHITECT. CONTRACTOR SHALL BE RESPONSIBLE FOR PAYING ALL COST ASSOCIATED WITH INSTALLATION OF UNAPPROVED FIXTURES AND REMOVAL AND REPLACEMENT OF SUCH AT NO COST TO OWNER.

B. THE PLUMBING CONTRACTOR SHALL SUBMIT AN ELECTRONIC SET OF SHOP DRAWINGS TO THE ARCHITECTS WITHIN 20 DAYS AFTER AWARD OF THE CONTRACT, AND BEFORE ANY MATERIALS, FIXTURES, AND EQUIPMENT TO BE INCORPORATED IN THE WORK HAS BEEN ORDERED. SHOP DRAWINGS SHALL INCLUDE THE NAME AND ADDRESS OF THE MANUFACTURER AND THEIR CATALOG NUMBERS AND TRADE NAMES CLEARLY MARKED. ALL ITEMS SHALL BE REFERENCED TO THE PLANS AND SPECIFICATIONS BY FIXTURE NUMBER. SUBMIT SHOP DRAWINGS AND / OR CATALOG DATA FOR THE FOLLOWING:

1. WASTE PIPING, FITTINGS AND COUPLINGS
2. WATER PIPING, FITTINGS AND EQUIPMENT
3. GATE VALVES, BALL VALVES, PLUG VALVES, BACK FLOW PREVENTERS
4. VENT CAPS
5. EMERGENCY DRAIN PANS
6. PIPING INSULATION
7. HANGER SUPPORTS AND HANGERS
8. FIXTURES

C. APPROVAL OF SHOP DRAWINGS AND / OR SUBMITTED DATA SHALL NOT RELIEVE THE PLUMBING CONTRACTOR OF THE RESPONSIBILITY TO COMPLY WITH THE REQUIREMENTS AND INTENT OF THE PLANS AND SPECIFICATIONS WITH REGARD TO DIMENSIONS, CAPACITIES, QUALITY, QUANTITY, PERFORMANCE CHARACTERISTICS, ETC. IF DATA SUBMITTED DEVIATES FROM THE CONTRACT DOCUMENTS, THE PLUMBING CONTRACTOR SHALL POINT OUT SUCH DEVIATIONS IN WRITING AND ALSO STATE REASONS FOR SAME.

D. FIXTURES:

1. WATER CLOSETS,URINALS, LAVATORIES, SINKS, MOP SINKS, FLUSH VALVES, AND FAUCETS SHALL BE ALL ONE MANUFACTURER AND SHALL BE EQUALS OF AMERICAN STANDARD, KOHLER SLOAN, ZURN, SYMMONS, ELKAY, DAYTON. ENGINEERING APPROVAL FOR OTHERS NOT LISTED SHALL BE REQUIRED.

2. WATER HEATERS, (ELECTRIC) SHALL BE A.O.SMITH, STATE, RHEEM, VAUGHN, BRADFORD WHITE, AMERICAN, AND HTP. GAS WATER HEATERS SHALL BE A.O. SMITH, INTELLIHOT, BRADFORD WHITE VAUGHN, PVI AND HTTP. ENGINEERING APPROVAL FOR OTHERS NOT LISTED SHALL BE REQUIRED.

WORKMANSHIP:

A. LAYOUT:

1. DRAWINGS INDICATE GENERAL LOCATIONS OF FIXTURES. EXACT LOCATIONS SHALL BE DETERMINED FROM ARCHITECTURAL DRAWINGS.

2. FURNISH AND INSTALL ALL NECESSARY SLEEVES, INSERTS, BOLTS, ETC., FOR CONCRETE FLOOR SLABS, ROOF, WALLS, AND PARTITIONS. FAILURE TO INSTALL SUCH ITEMS IN TIME TO AVOID DELAYING THE GENERAL CONTRACTOR SHALL RESULT IN THE CONTRACTOR DOING ANY NECESSARY CUTTING AND REPAIRING AT HIS EXPENSE.

3. SLEEVES AS HEREINAFTER SPECIFIED SHALL BE INSTALLED ON ALL THROUGH THE FLOOR PIPING ABOVE SLAB ON GRADE EXCEPT WATER CLOSET ROUGH-INS. WATER CLOSET ROUGH-INS SHALL BE CAST IN PLACE. CORE DRILLING OF SLABS SHALL BE SEALED WITH APPROVED FIRE RETARDANT CAULKING AND SEALED WATERTIGHT.

4. ALL FIXTURES AND EQUIPMENT SHALL BE INSTALLED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.

B. DRAINAGE, WASTE, AND VENT PIPING:

1. SLOPE ALL LINES 2" AND SMALLER AT 1/4" / FOOT

2. SLOPE ALL LINES 3" AND LARGER AT 1/8" / FOOT

3. RUN ALL PIPING AS DIRECTLY AS POSSIBLE, AVOIDING UNNECESSARY BENDS AND TURNS SO AS NOT TO INTERFERE WITH PROPER INSTALLATION.

4. TAPPED TEES AND CROSSES WILL NOT BE PERMITTED. TAPPED SANITARY TEES AND CROSSES SHALL BE USED.

C. WATER SYSTEM:

1. CONCEAL WATER SUPPLY IN WALLS, BELOW FLOOR OR ABOVE CEILING EXCEPT WHERE EXPOSED FOR CONNECTIONS TO FIXTURES OR OTHERWISE INDICATED.

2. ALL WATER PIPING SHALL BE ROUTED WITH A MINIMUM CLEARANCE OF TEN (10) FEET FROM ANY ELECTRICAL SWITCHBOARDS, PANEL BOARDS OR TELEPHONE BACKBOARDS.

3. ALL SUPPLY TO FIXTURES SHALL HAVE INDIVIDUAL STOP VALVES

4. PROVIDE WATER HAMMER SHOCK ARRESTORS (PD) AS REQUIRED OR AS SHOWN TO PREVENT WATER HAMMER. ARRESTERS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS AND AS DETAILED ON CONTRACT DRAWINGS. MANUFACTURERS OF URN, JOAN, J.R. SMITH SHALL BE ACCEPTABLE. PROVIDE 12" X 12" ACCESS DOORS FOR ALL SHOCK ARRESTORS INSTALLED ABOVE HARD CEILINGS.

5. ALL EXPOSED PIPING TO FIXTURES SHALL BE CHROME PLATED.

6. INSULATE ALL WATER PIPING INSIDE BUILDING AND HEREINAFTER SPECIFIED.

D. INSULATION:

1. ALL PIPE INSULATION JOINTS SHALL BE SEALED TO MAINTAIN INTEGRITY OF THE VAPOR JACKET AND SHALL PASS THRU ALL SLEEVES UNBROKEN EXCEPT FOR FIRE STOPS.

2. PIPE INSULATION AT ALL FIRE SEPARATIONS SHALL BE BUTTED TIGHTLY TO THE FIREWALL OR TO THE FLOOR AFTER FIR STOP MATERIAL HAS BEEN INSTALLED.

CUTTING,PATCHING, AND CHASING:

A. ALL CUTTING AND PATCHING SHALL BE GENERAL CONDITIONS OF THE ARCHITECTURAL SPECIFICATIONS. PLUMBING CONTRACTOR SHALL CUT ALL FLOORS NECESSARY TO INSTALL ALL PIPING AND SHALL REPAIR FLOOR TO MATCH THAT OF EXISTING.

WASTE AND VENT SYSTEMS:

A. PIPING:

1. WASTE AND VENT PIPING SHALL BE SCHEDULE 40 PVC-DWV SOLID WALL PIPING CONFORMING TO ASTM D-2665-68 AND C.S. 272-65 WITH NS SEAL. NO FOAM CORE PIPING WILL BE ACCEPTABLE.

2. WASTE PIPING SLEEVES SHALL BE SCHEDULE 40 PVC-DWV OR CAST IRON SOLID WALL AS IDENTIFIED AS ABOVE BUT SHALL BE ONE PIPE DIAMETER LARGER FILLED WITH FIRESTOP MATERIAL FOR FIRE WALLS.

B. FITTINGS:

1. FITTINGS FOR PVC-DWV PIPING SHALL BE PVC-DWV FITTINGS CONFORMING TO PIPING SPECIFICATIONS LISTED ABOVE.

C. JOINTS:

1. JOINTS FOR PVC-DWV PIPING SHALL BE MADE USING PIPING MANUFACTURERS APPROVED SOLVENT CEMENT.

2. ANY FLASHING OF PLUMBING VENTS IF USED SHALL BE PROVIDED BY THE GENERAL CONTRACTOR AND SHALL BE COORDINATED WITH SUCH.

HOT AND COLD WATER SYSTEMS

A. WATER PIPING:

1. WATER PIPING 4" AND SMALLER ABOVE GRADE INSIDE BUILDING SHALL BE TYPE "L" HARD COPPER CONFORMING ASTM B-88

B. FITTINGS:

1. FITTINGS FOR COPPER PIPING SHALL BE WROUGHT COPPER, SOLDER JOINT FITTINGS CONFORMING TO ANSI B 16.22

C. JOINTS:

1. ALL COPPER PIPING JOINTS, 1 1/4" AND SMALLER SHALL BE MADE USING LEAD FREE SOLDER WITH A MINIMUM MELTING POINT OF 410 DEGREES FAHRENHEIT.

2. ALL COPPER PIPING JOINTS, 1 1/2" AND LAGER SHALL BE MADE USING SIL-PHOS-COPPER SILVER ALLOY MATERIAL WITH A MINIMUM MELTING POINT OF 1000 DEGREE F.

CLEANOUTS :

A. CLEANOUT INSTALLED IN FLOORS AND WALKS SHALL HAVE ADJUSTABLE CAST IRON BODY WITH CAST BRASS PLUG, LEAD SEAL AND SQUARE NICKEL BRONZE TOP WITH WATERTIGHT CASKETED COVER. CLEANOUTS SHALL BE J.R. SMITH, JOSAM, ZURN OR ENGINEERING APPROVED EQUAL.

VALVES:

A. VALVES SHALL BE INSTALLED AS NOTED ON CONTRACT DOCUMENTS. EXISTING VALVES IN PLACE SHALL BE VERIFIED FOR SAFE OPERATIONS AND SHALL BE REPLACED WITH THAT OF NEW IF DETERMINED TO BE UN-USABLE.

B. DOMESTIC COLD AND HOT WATER SYSTEM VALVES 1 1/4" AND SMALLER SHALL BE CAST BRONZE BODY, FULL PORTED, SOLDERED END GATE VALVES RATED FOR CLASS 150, 200 WOG SERVICES. DOMESTIC COLD AND HOT WATER SYSTEMS VALVES 1 1/2" AND 2" SHALL BE CAST BRONZE, FULL PORTED, THREADED END GATE VALVES RATED FOR CLASS 150, 200 WOG SERVICES. VALVES SHALL BE PROVIDED WITH STEM EXTENSION FOR INSULATION THICKNESS SPECIFIED. VALVES SHALL BE NIBCO OR JENKINS. VALVE NOT LISTED SHALL REQUIRE ENGINEERING APPROVED EQUAL.

PIPE INSULATION:

A. ALL PLUMBING PIPE INSULATION SYSTEMS, INCLUDING JACKETING, COVERINGS, ADHESIVES WHEN USED, SHALL HAVE A FLAME SPREAD RATING NOT EXCEEDING TWENTY-FIVE (25) AND A SMOKE DEVELOPMENT RATING NOT EXCEEDING FIFTY (50) WHEN THE INSULATION ASSEMBLY IS TESTED AS COMPOSITE.

1. INSULATE ALL COLD AND HOT WATER PIPING IN ACCORDANCE WITH IECC 2015 ADDITION

2. COLD WATER PIPING: INSULATION SHALL BE ½" FOR PIPING BELOW 1 ½" DIAMETER AND 1½" FOR PIPING ABOVE 1 ½" DIAMETER

3. HOT WATER PIPING: INSULATION SHALL BE: 1" FOR PIPING BELOW 1 ½" DIAMETER, AND 1½" FOR PIPING ABOVE 1 ½" DIAMETER

4. ALL PIPE INSULATION FOR PIPE FITTINGS SHALL BE PRE-MOLDED TO FIT FITTINGS AND SHALL BE ENCLOSED UNDER PRE-MOLDED PVC FITTING JACKET.

HANGERS:

A. HANGERS FOR HORIZONTAL PIPING SHALL BE CLEVIS TYPE AND SHALL BE MANUFACTURED BY MODERN, ANVIL OR ENGINEERING APPROVED EQUAL.

B. HANGERS FOR INSULATED PIPING SHALL EXTEND AROUND INSULATION. PROVIDE 16 GAGE GALVANIZED STEEL INSULATION PROTECTION SADDLES 12" LONG AT EACH HANGER ON ALL INSULATED LINES .

C. A HANGER SHALL BE PROVIDED WITHIN ONE (1) FOOT OF EACH BEND IN HORIZONTAL PIPING. VERTICAL PIPING SHALL BE SUPPORTED AT EACH FLOOR OR AT INTERVALS NOT EXCEEDING TEN (10) FEET.

D. HANGERS SHALL BE FASTENED BY MEANS OF THREADED RODS TO STEEL BEAM CLAMPS, CENTER OF BAR JOIST, CENTER OF TRUSSES, ETC. ALL HANGERS SHALL PERMIT ADEQUATE ADJUSTMENT AFTER ERECTION WHILE STILL SUPPORTING THE LOAD.

PROTECTION OF WORK AND EQUIPMENT:

A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY WORK DAMAGED DURING CONSTRUCTION. ANY PLUMBING WORK DAMAGED BY ANY OTHER CONTRACTOR SHALL BE REPLACED BY THE CONTRACTOR AND IN PERFECT WORKING CONDITION WITHOUT EXTRA COST TO THE OWNER. ALL FIXTURES AND FITTINGS SHALL BE ADEQUATELY PROTECTED BEFORE, DURING AND AFTER INSTALLATION.

B. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PLUMBING FIXTURES AT TIME OF FINAL INSPECTION. ANY BROKEN FIXTURES WILL BE REPLACED BY THE CONTRACTOR AT NO COST TO THE OWNER REGARDLESS OF BY WHOM THE FIXTURE WAS BROKEN.

TESTING:

A. THE CONTRACTOR SHALL NOTIFY ENGINEER TWENTY FOUR (24) HOURS IN ADVANCE OF ALL TESTING. THE CONTRACTOR SHALL MAKE ALL NECESSARY PRELIMINARY TEST TO INSURE A TIGHT SYSTEM. ANY JOINTS FOUND TO LEAK UNDER PRESSURE SHALL BE CLEANED AND REMADE.

B. ALL SANITARY WASTE, AND VENT PIPING SHALL BE TESTED IN ACCORDANCE WITH INTERNATIONAL PLUMBING CODE (IPC) REQUIREMENTS.

C. ALL WATER PIPING HOT AND COLD SHALL BE TESTED IN ACCORDANCE WITH INTERNATIONAL PLUMBING CODE (IPC) REQUIREMENTS.

D. CONTRACTOR SHALL FURNISH ALL EQUIPMENT NECESSARY TO PERFORM TEST IN ACCORDANCE WITH CODE REQUIREMENTS.

STERILIZATION:

A. WATER PIPING SHALL BE CHARGED WITH A CHLORINE SOLUTION CONTAINING NOT LESS THEN 50-PPM AVAILABLE CHLORINE. THE SOLUTION SHALL REMAIN IN PIPING FOR A MINIMUM PERIOD OF 6 HOURS, DURING WHICH TIME VALVES SHALL BE OPENED AND CLOSED TO PERMIT A SMALL FLOW OF THE SOLUTION. AT END OF SIX (6) HOURS THE SOLUTION SHALL BE TESTED AND MUST CONTAIN A RESIDUAL OF AT LEAST 5 TO 10 PPM. THE SYSTEM SHALL THEN BE DRAINED AND FLUSHED TO PROVIDE SATISFACTORY POTABLE WATER BEFORE FINAL CONNECTION IS MADE TO THE EXISTING DISTRIBUTION SYSTEM.

B. THE CONTRACTOR SHALL CONTRACT WITH AN INDEPENDENT TESTING LABORATORY FOR A CERTIFICATION LETTER THAT THE SYSTEM STERILIZATION MEETS OR EXCEEDS STANDARDS FOR POTABLE WATER.

PLACING IN SERVICE:

A. UPON COMPLETION OF THE ENTIRE SYSTEM INSTALLATION, THE ENTIRE SYSTEM AND EQUIPMENT SHALL BE TESTED BY ACTUAL OPERATIONS TO PROVIDE THAT ALL FIXTURES OPERATE AS INTENDED.

B. THE CONTRACTOR SHALL FLUSH ALL WASTE PIPING PRIOR TO FINAL CONNECTION TO EXISTING SYSTEM , TO ENSURE THAT NO FOREIGN MATERIALS ARE IN THE LINES, AND CONTINUOUS FLOW OF WATER AND WASTE CAN BE AFFECTED.

C. THE CONTRACTOR SHALL FLUSH ALL WATER PIPING PRIOR TO THE CONNECTION OF FLUSH VALVE, AND FAUCET AERATORS TO PROVIDE A CLEAN AND OPERATIONAL WATER SYSTEM.

D. THE CONTRACTOR SHALL PLACE THE ENTIRE SYSTEM IN A SATISFACTORY OPERATING CONDITION AND SHALL FURNISH ALL ASSISTANCE AND INSTRUCTIONS REQUIRED.

E. IT IS THE CONTRACTORS RESPONSIBILITY TO INSURE ALL FLOOR DRAINS AND CLEANOUTS ARE IN A CLEAN CONDITION.

DPR ARCHITECTURE
D'ARCANGELO PALMER RULE
12A E. GRADY STREET
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912-764-6288
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GEORGIA 30458
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USE OF ELECTRONIC DRAWING REPRESENTATION MAY NOT BE REPRODUCED WITHOUT WRITTEN CONSENT

GEORGIA REGISTERED NO. PE28655 PROFESSIONAL ENGINEER CAPRICE BAUMGRASS 12-4-24

BUILDING #2
COLDBROOK PLAZA
OLD RICHMOND ROAD

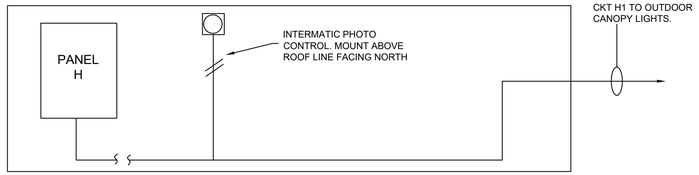
BID SET

PLUMBING SPECIFICATIONS

P4.0

2023-218

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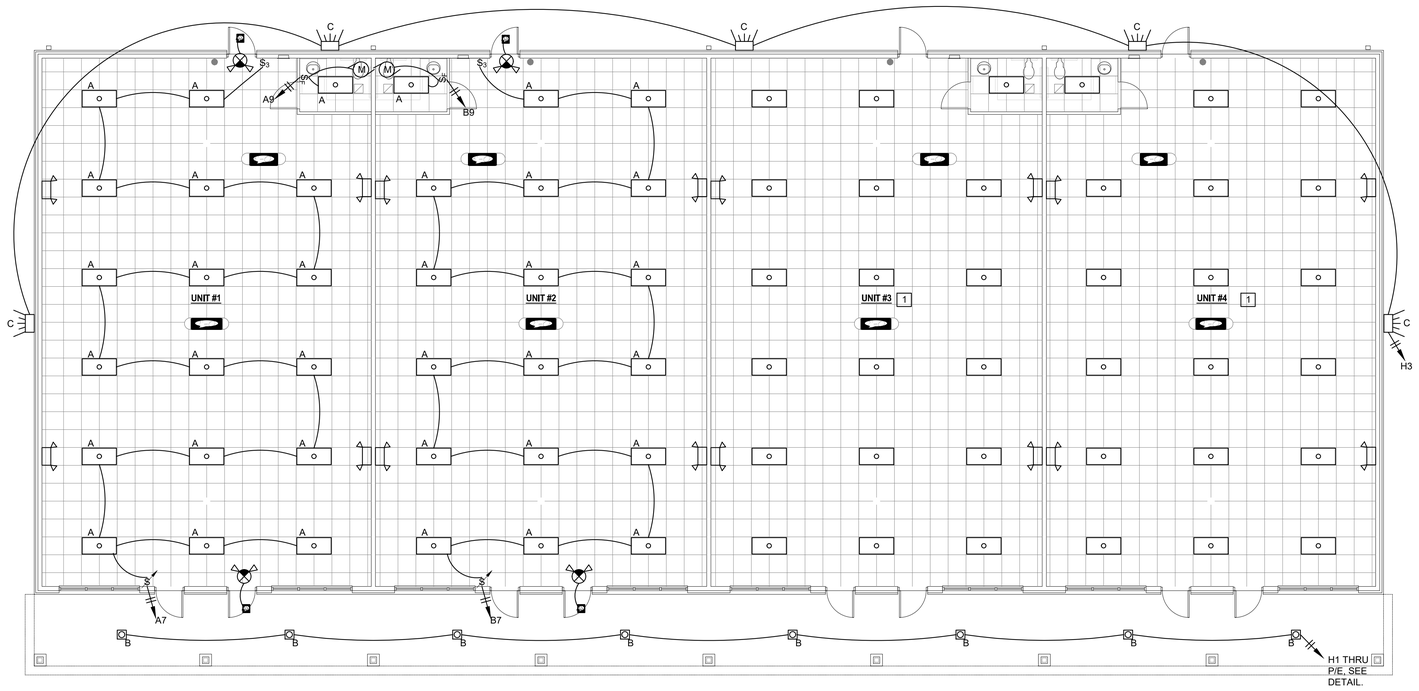


2 / E1.0 LIGHTING CONTROL DIAGRAM
SCALE: NONE

LIGHTING SCHEDULE		
SYM	DESCRIPTION	MANUFACTURER
A	LED 2X4 FLAT PANEL. MVOLT, SWITCHABLE CCT, SWITCHABLE LUMEN OUTPUT, 0-10V DIMMING, 49 WATTS MAX.	LITHONIA CPX 2X4 ALO8 SWW7 OR EQUAL AS APPROVED
B	6" LED RECESSED DOWNLIGHT. MVOLT, SWITCHABLE CCT, SWITCHABLE LUMEN OUTPUT, 0-10V DIMMING, WIDE DISTRIBUTION, 13 WATTS MAX.	LITHONIA LBR6 ALO1 SWW1 AR LSS WD MVOLT UGZ OR EQUAL AS APPROVED
C	OUTDOOR LED WALL PACK. MVOLT, 4000K, SWITCHABLE LUMEN OUTPUT, INTEGRATED PHOTOCELL, MT HT. 12.5', FINISH TBD, 54 WATTS MAX.	LITHONIA TWX2 LED ALO 40K MVOLT PE OR EQUAL AS APPROVED
	EMERGENCY EXIT COMBO FIXTURE. 120/277V, TWO 1.5W LED LAMP HEADS, NI-CAD HIGH OUTPUT BATTERY. L - INDICATES REMOTE LAMP, ARROW INDICATES DIRECTIONAL.	LITHONIA LHQM LED HO OR EQUAL AS APPROVED
	EMERGENCY LIGHT FIXTURE. 120/277V, 2.4W ADJUSTABLE LED LAMPS, 220 LUMENS, NI-CAD BATTERY.	LITHONIA ELM2L OR EQUAL AS APPROVED

POWER PLAN NOTES

1 UNIT #3 & #4 TO BE MIRRORED LAYOUTS OF UNIT #1 & #2. SEE PLAN & RISER DIAGRAM (E3.0) FOR MORE DETAILS.



1 / E1.0 ELECTRICAL LIGHTING PLAN
SCALE: 1/8" = 1' - 0"

8' 0' 8' 16' 24' 32'
GRAPHIC SCALE IN FEET

DPR ARCHITECTURE
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USE OF ELECTRONIC DRAWING REPRESENTATION MAY NOT BE REPRODUCED WITHOUT WRITTEN

GEORGIA REGISTERED No. 25002 PROFESSIONAL ENGINEER MATT D. GILBERT
12-4-24

BUILDING #2
COLDBROOK PLAZA
OLD RICHMOND ROAD

BID SET

ELECTRICAL LIGHTING PLAN

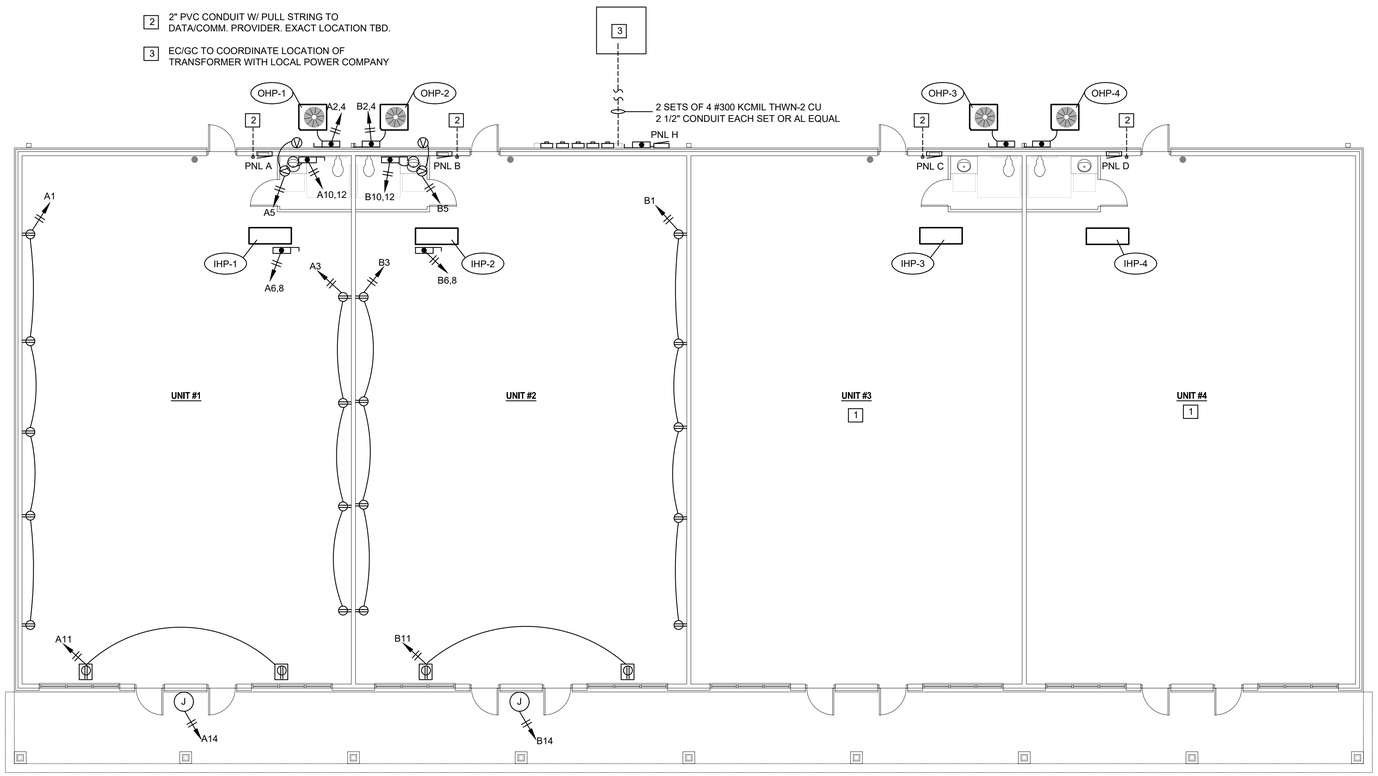
E1.0

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POWER PLAN NOTES

1. UNIT #3 & #4 TO BE MIRRORED LAYOUTS OF UNIT #1 & #2. SEE PLAN & RISER DIAGRAM (E3.0) FOR MORE DETAILS.
2. 2" PVC CONDUIT W/ PULL STRING TO DATA/COMM. PROVIDER. EXACT LOCATION TBD.
3. EC/GC TO COORDINATE LOCATION OF TRANSFORMER WITH LOCAL POWER COMPANY



1 / E2.0 ELECTRICAL POWER PLAN
SCALE: 1/8" = 1' - 0"

8' 0' 8' 16' 24' 32'
GRAPHIC SCALE IN FEET

DPR ARCHITECTURE
D'ARCANGELO PALMER RULE

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USE OF ELECTRONIC DRAWING REPRESENTATION MAY NOT BE REPRODUCED WITHOUT WRITTEN PERMISSION

GEORGIA REGISTERED No. 25002 PROFESSIONAL ENGINEER BRENT D. GILBREATH
12-4-24

BUILDING #2
COLDBROOK PLAZA
OLD RICHMOND ROAD

BID SET

ELECTRICAL POWER PLAN

E2.0

2023-218

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ELECTRICAL SYMBOLS

SYMBOL	DESCRIPTION
	BRANCH CIRCUIT OR FEEDER CONDUIT CONCEALED IN WALLS OR ABOVE CEILING WITH GROUND. ARROW DENOTES HOME RUN TO PANEL. CROSS HATCHES DENOTE NUMBER OF CONDUCTORS IF OTHER THAN TWO, BUT DO NOT INCLUDE SWITCH LEGS OR THE EQUIPMENT GROUND WIRE. NUMBER 12 MINIMUM SIZE. SEE PANEL SCHEDULE FOR WIRE SIZE.
S S_3 S_4 S_F S_P	120-277V/20A SINGLE POLE LIGHTING SWITCH, MOUNT AT 48" ABOVE FINISHED FLOOR. 3 - DESIGNATES 3-WAY CONNECTORS, 4 - DESIGNATES 4-WAY CONNECTORS, P - DESIGNATES INTEGRATED OCCUPANCY SENSOR. F - DESIGNATES WALL MOUNTED OCCUPANCY CONTROLLED DUAL LIGHT & EXHAUST FAN SWITCH (SENSOR SWITCH WSX 2P FAN OR EQUAL)
S S_P	120V, 0-10 VOLT DIMMER SWITCH, SLIDE CONTROL W/ ON-OFF FEATURE. MUST BE COMPATIBLE WITH LED FIXTURE CHOSEN. SEE LIGHTING SCHEDULE FOR DETAILS. P - DESIGNATES INTEGRATED OCCUPANCY SENSOR.
	WALL MOUNTED LIGHT FOR OUTDOOR APPLICATION (TYP.)
	LED RECESSED DOWNLIGHT FIXTURE, SEE LIGHTING SCHEDULE.
A	LED LINEAR FIXTURE, FLAT PANEL, OR DROP IN TROFFER 120V (UNLESS NOTED OTHERWISE, SEE LIGHTING SCHEDULE) A = FIXTURE TYPE (SEE LIGHTING SCHEDULE)
	WALL MOUNTED LIGHT FIXTURE. SEE LIGHTING SCHEDULE.
	CEILING MOUNTED LIGHT FIXTURE. SEE LIGHTING SCHEDULE.
M	EXHAUST FAN, FURNISH, INSTALL, AND CONNECT ELECTRICALLY COMPLETE. SEE MECHANICAL DRAWINGS FOR MAKE AND MODEL.
	EMERGENCY EXIT LIGHT WITH FACES AND ARROWS AS INDICATED. SHADED AREA DENOTES FACES. SEE LIGHT FIXTURE SCHEDULE. CONNECT TO CONTINUOUS (UNSWITCHED) POWER SUPPLY SERVING LIGHTING IN THE PARTICULAR SPACE. MOUNTED 9'-0" AFF.
	EMERGENCY LIGHTS - SURFACE MOUNTED LED EMERGENCY FIXTURE W/ BATTERY BACKUP. SEE LIGHT FIXTURE SCHEDULE. CONNECT TO CONTINUOUS (UNSWITCHED) POWER SERVING LIGHTING IN THE PARTICULAR SPACE. MOUNTED 8'-0" AFF.
	TELEPHONE CABINET BACKBOARD SHALL BE 3/4" PLYWOOD
	ENCLOSED DISCONNECT SWITCH, NEMA 3R FOR OUTDOOR, NEMA 1 FOR INDOOR, MOUNTED 30"AFF TO BUILDING, EXCEPT AS NOTED ON PRINTS. SIZE DISCONNECT AND FUSE TO MEET HVAC MFRS SPECIFICATIONS.
	UNDERGROUND OR UNDER STRUCTURE RIGID METAL CONDUIT. BURY AT A DEPTH OF 24" BELOW GRADE.
	ELECTRICAL PANELBOARD (RECESSED OR FLUSH MOUNTED). SEE RISER AND PANEL SCHEDULE FOR RATINGS.
OHP# IHP#	HEAT PUMP UNIT, # - INDICATES SPECIFIC UNIT, I - INDICATES INDOOR, O - INDICATES OUTDOOR. (SEE MECHANICAL SCHEDULE FOR CORRECT UNIT)
J	WALL / CEILING MOUNTED JUNCTION BOX OR EQUIPMENT JUNCTION BOX WHEN FURNISHED WITH COVER. MINIMUM SIZE 4" x 4" x 1-1/2". SIZE PER NEC.
E	EQUIPMENT CONNECTION (EXACT LOCATION TO BE DETERMINED BY KITCHEN/ EQUIPMENT MANUFACTURER' S SPECIFICATIONS.)
	20A,120VOLT DUPLEX CONVENIENCE OUTLET, CENTERED VERTICALLY 18" AFF UNLESS OTHERWISE NOTED.
	20A,120VOLT GFI DUPLEX CONVENIENCE OUTLET, CENTERED VERTICALLY 18" AFF UNLESS OTHERWISE NOTED. IF LOCATED OUTSIDE, RECEPTACLE WILL HAVE INTEGRAL GROUND FAULT INTERRUPTER AND WEATHERPROOF COVER. "GFI" DENOTES INTEGRAL GROUND FAULT INTERRUPTER. MOUNT GFI'S IN BATHROOMS OR SINKS, 6" ABOVE COUNTER TOPS.
	20A,120VOLT QUAD CONVENIENCE OUTLET, CENTERED VERTICALLY 18" AFF UNLESS OTHERWISE NOTED.
	WALL MOUNTED DATA/TELEPHONE JACK LOCATION. RUN 1" CONDUIT W/ PULL STRING TO ABOVE CEILING.

ELECTRICAL NOTES

1. OUTLET BOXES ON OPPOSITE SIDES OF FIRE RESISTANT WALL OR SHAFT ENCLOSURE SHALL BE SEPARATED BY A HORIZONTAL DISTANCE OF 24" MINIMUM.
2. ALL CONVENIENCE OUTLETS INSTALLED TO SERVE A KITCHEN COUNT TOP SHALL BE GFI PROTECTED PER NEC.
3. INSTALL SMOKE DETECTORS PER NFPA 72 AND IBC. SEE ELECTRICAL SYMBOLS.
4. MAINTAIN CONTINUOUS GROUNDS ON ALL RECEPTACLES.
5. USE FIRE RATED MATERIALS IN RATED WALLS. FOR STOP PER NFPA.
6. CEILING PENETRATIONS SHALL MEET THE REQUIREMENT OF NEC AND IBC.
7. GROUND ELECTRICAL SERVICE PER NEC250-66 AND AS APPROVED BY LOCAL AHJ.
8. MAINTAIN 3 FT. MINIMUM CLEARANCE IN FRONT OF ELECTRICAL EQUIPMENT PER NEC 110.26 (A)
9. CONSULT LOCAL UTILITY AND BUILDING AUTHORITY FOR APPROVAL PRIOR TO PURCHASE AND INSTALLATION OF ELECTRICAL EQUIPMENT. VERIFY AVAILABLE FAULT CURRENT IS LESS THAN EQUIPMENT RATING SPECIFIED. ELECTRICAL CONTRACTOR MAY REDUCE INTERRUPTING RATING OF EQUIPMENT IF LOCAL UTILITY AVAILABLE FAULT CURRENT IS SUBSTANTIALLY LOWER THAN ANTICIPATED AND SHALL GAIN APPROVAL IN WRITING FROM ENGINEER PRIOR TO PURCHASE AND INSTALLATION. INSTALLATION SHALL MEET THE REQUIREMENTS OF NEC 110.9 AND 110.10.
10. FIRE ALARM (BY OTHERS, IF REQUIRED). GAIN APPROVAL FROM LOCAL FIRE MARSHALL ON FIRE PROTECTION EQUIPMENT LAYOUT PRIOR TO INSTALLATION AND APPROVAL. FIRE MARSHAL MAY REQUIRE ADDITIONAL EQUIPMENT (SMOKE DETECTORS, EXIT SIGNS, EGRESS LIGHTS, ETC) GREATER THAN THAT SHOWN. IF ADDITIONAL EQUIPMENT IS REQUESTED OTHER THAN THAT SHOWN, CONTRACTOR SHALL CONSULT ARCHITECT / ENGINEER PRIOR TO CONTINUING. CONTRACTOR SHALL BE RESPONSIBLE FOR FAILURE TO INFORM ENGINEER AND ARCHITECT AND SHALL INCUR ALL COST FOR ADDITIONAL CHANGES WITHOUT PRIOR APPROVAL. INSTALL FIRE ALARM EQUIPMENT PER NFPA 72.
11. HOME RUNS FOR ALL 20 AMP BRANCH CIRCUITS LONGER THAN 75 FEET SHALL BE AT LEAST 10 AWG.
12. ALL 10,000 AIC RATED BREAKERS SHALL BE SERIES RATED FOR 22,000 AIC W/ MAIN CB.

FAULT CURRENT CALCULATIONS
- UTILITY FAULT CURRENT @ 150 KVA TRANSFORMER SECONDARY = 26,025
- CALCULATED FAULT CURRENT w/ 20' OF 2 SETS OF 300 KCMIL CU @ TOP OF FUSE= 23,740
- ESTIMATED LET THRU RMS CURRENT BASED ON BUSSMANN RK1 200 FUSE = 5000
- CALCULATION PERFORMED 10-11-24
- INSTALL LABELING ON SERVICE EQUIPMENT PER NEC 110.16 AND 24

ELECTRICAL MATERIALS

1. FURNISH ALL NECESSARY MATERIALS, TOOLS AND LABOR, AND INSTALL A COMPLETE AND FULLY OPERABLE SYSTEM AS SHOWN OR REASONABLY IMPLIED. ALL OUTLETS SHALL BE LEFT READY FOR USE. ALL MATERIALS SHALL BE NEW FREE OF DEFECTS AND BE UL LISTED.
2. ALL WORK SHALL BE IN ACCORDANCE WITH NEC 2020, LOCAL CODES AND ORDINANCES AND THE REQUIREMENTS OF THE UTILITY COMPANY. LOCAL CODES SHALL GOVERN IN THE EVENT OF A CONFLICT.
3. APPLY AND PAY FOR ALL REQUIRED PERMITS, INSPECTIONS, ETC.
4. UNLESS OTHERWISE NOTED, ALL WIRING SHALL BE RUN CONCEALED AND OUTLETS SHALL BE FLUSH MOUNTED IN WALLS, CEILINGS OR FLOORS.
5. OUTLET BOXES SHALL BE SIZED AND INSTALLED PER NEC AND MEET ALL LOCAL CODES.
6. PANELS SHALL HAVE INSULATED NEUTRAL BUSSES AND SEPARATE EQUIPMENT GROUNDING BUSSES. PROVIDE CIRCUIT INDEX CARDS.
7. LIGHTING FIXTURES SHALL BE COMPLETE WITH LAMPS, BALLASTS (IF APPLICABLE) AND MOUNTING ACCESSORIES AS REQUIRED. GROUND FIXTURES PER NEC ARTICLE 410-20.
8. ALL POWER WIRING AND CONNECTIONS TO MECHANICAL EQUIPMENT SHALL BE PROVIDED BY THIS CONTRACTOR.
9. SEAL ALL PENETRATIONS IN FIRE RATED ASSEMBLIES WITH 3-M, OR EQUAL FIRE STOP MATERIAL. INSTALL PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
10. AT THE COMPLETION OF THIS WORK, THIS CONTRACTOR SHALL REMOVE ALL RUBBISH CAUSED BY HIS WORK AND SHALL THOROUGHLY CLEAN ALL ELECTRICAL EQUIPMENT.
11. GROUND SYSTEMS PER NEC ARTICLE 250 AND LOCAL CODES.
12. THE ELECTRICAL CONTRACTOR SHALL GUARANTEE ALL MATERIALS, EQUIPMENT AND LABOR FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE OR FIRS BENEFICIAL USE BY THE OWNER, WHICHEVER COMES FIRST. THE ENTIRE SYSTEM SHALL BE FREE OF SHORTS AND GROUNDS. CORRECTIONS TO THE WIRING SYSTEM, DUE TO DEFECTIVE MATERIALS AND WORKMANSHIP, WITHIN THE GUARANTEE PERIOD, SHALL BE MADE BY THE CONTRACTOR AT NO COST TO THE OWNER.
13. ALL HEATING, VENTILATION , AND AC BREAKERS SHALL BE HACR TYPE PER MANUFACTURER'S SPECIFICATIONS.
14. CONDUCTORS SHALL BE THHN/ THWN-2 COPPER, 10WG & SMALLER SHALL BE SOLID, 8 AWG AND LARGER SHALL BE STRANDED. COLOR CODE SHALL BE AS FOLLOWS: 120/208 3Ø,4W: ØA - BLACK, ØB - RED, ØC -BLUE, NEUTRAL - WHITE, EQUIPMENT GROUND - GREEN. 277/480 3Ø,4W: ØA - BROWN, ØB - ORANGE, ØC -YELLOW, NEUTRAL - GRAY, EQUIPMENT GROUND-GREEN.
15. USE OF NM, NMC AND NMS CABLE IN LIEU OF CONDUIT AND STRANDED THHN, THWN WIRE FOR BRANCH CIRCUITS PER CURRENT NEC IS ALLOWED PROVIDED LOCAL AHJ APPROVES OF ITS USE. RESIDENTIAL CLASSIFICATIONS ONLY.
16. CONDUITS CONCEALED IN WALLS AND ABOVE CEILING SHALL BE EMT. UNDERGROUND CONDUITS SHALL BE PVC SCHEDULE 40, EXPOSED CONDUITS SHALL BE RIGID STEEL. CONDUITS SHALL BE RUN AT RIGHT ANGLES TO BUILDING WALLS. USE OF MC CABLE ALLOWED PER NEC APPROVED LOCATIONS & AHJ.
17. DEVICES AND DEVICE BOXES SHALL BE INSTALLED LEVEL AND PLUMB. DUPLEX RECEPTACLES SHALL BE INSTALLED SO THAT GROUNDS ARE AT BOTTOM. SINGLE POLE TOGGLE SWITCHES SHALL BE INSTALLED SO THAT OFF POSITION IS DOWN.
18. DEVICE AND DEVICE PLATE MATERIALS AND COLORS SHALL BE AS SPECIFIED BY OWNER / ARCHITECT.
19. ALL FUSES SHALL BE CLASS RK1 OR RK5 FUSES OR EQUAL WITH CURRENT LIMITING CHARACTERISTICS.
20. VERIFY WITH LOCAL UTILITY THE SHORT CIRCUIT KIA RATING AT SERVICE ENTRANCE IS LESS THAN 30 KIA.
21. LABEL ALL PANELS AND DISCONNECTS PER NEC ARC FLASH PROTECTION REQUIREMENTS.
22. AFFIX MAXIMUM FAULT CURRENT TO MAIN CIRCUIT PANEL OR DISCONNECT AT FACILITY PER NEC 110.16 AND 24.

POWER/LIGHTING PANEL: A/B/C/D

120/208V 3ϕ MLO 200 MINIMUM AIC EACH BREAKER 22,000 SQ D PANEL (OR EQUAL) FLUSH MOUNTED

LOAD A	LOAD B	LOAD C	LOAD SERVED	WIRE/CONDUIT SIZE	SIZE/POLE	CKT NO.	BUSS	CKT NO.	SIZE/POLE	WIRE/CONDUIT SIZE	LOAD SERVED	LOAD A	LOAD B	LOAD C
1000			RECEPTACLES	#12 - 1/2"	20/1	1		2	50/2	#8 - 3/4"	OHP - 1/2/3/4	2790		
	800		RECEPTACLES			3		4					2790	
		400	GFCI RECEPTACLES			5		6	50/2	#6 - 3/4"	IHP - 1/2/3/4			3945
850			LIGHTING			7		8				3945		
	100		LIGHTING - RESTROOM			9		10	20/2	#12 - 1/2"	WATER HEATER		1500	
		1200	SHOW WINDOW			11		12						1500
1500			BATHROOM GFI			13		14	20/1	#12 - 1/2"	SIGN CIRCUIT	1200		
	1500		COFFEE POT			15		16			FUTURE FIT OUT POWER		2000	
		1500	MICROWAVE			17		18			FUTURE FIT OUT POWER			2000
400			TELE BACKBOARD			19		20			FUTURE FIT OUT POWER	2000		
			SPARE			21		22			FUTURE FIT OUT POWER		2000	
						23		24			FUTURE FIT OUT POWER			2000
						25		26			SPARE			
						27		28						
						29		30						
						31		32						
						33		34						
						35		36						
						37		38						
						39		40						
						41		42						
TOTAL LOAD	TOTAL LOAD	TOTAL LOAD	TOTAL PANEL VA:	41055								TOTAL LOAD	TOTAL LOAD	TOTAL LOAD
3750	2400	3100										9935	8290	9445
			TOTAL LOAD CURRENT:	114										

POWER/LIGHTING PANEL: H

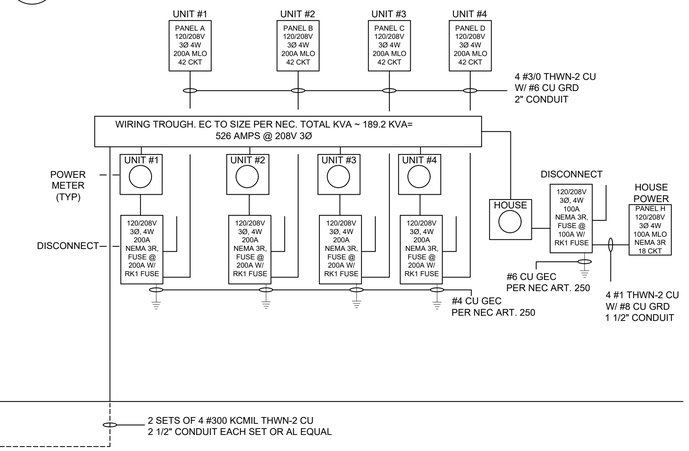
120/208V 3ϕ MCB 225 MINIMUM AIC EACH BREAKER 22,000 SQ D PANEL (OR EQUAL) SURFACE MOUNTED NEMA 3R RATED

LOAD A	LOAD B	LOAD C	LOAD SERVED	WIRE/CONDUIT SIZE	SIZE/POLE	CKT NO.	BUSS	CKT NO.	SIZE/POLE	WIRE/CONDUIT SIZE	LOAD SERVED	LOAD A	LOAD B	LOAD C
100			LIGHTING - CANOPY	#12 - 1/2"	20/1	1		2	20/1	#12 - 1/2"	FUTURE PYLON SIGN	1000		
	270		LIGHTING - WALL PACKS	#12 - 1/2"		3		4			FUTURE PYLON SIGN		1000	
			SPARE			5		6			SPARE			
						7		8						
						9		10						
						11		12						
						13		14						
						15		16						
						17		18						
TOTAL LOAD	TOTAL LOAD	TOTAL LOAD	TOTAL PANEL VA:	3810								TOTAL LOAD	TOTAL LOAD	TOTAL LOAD
100	270	0										1000	1000	0
			TOTAL LOAD CURRENT:	11										

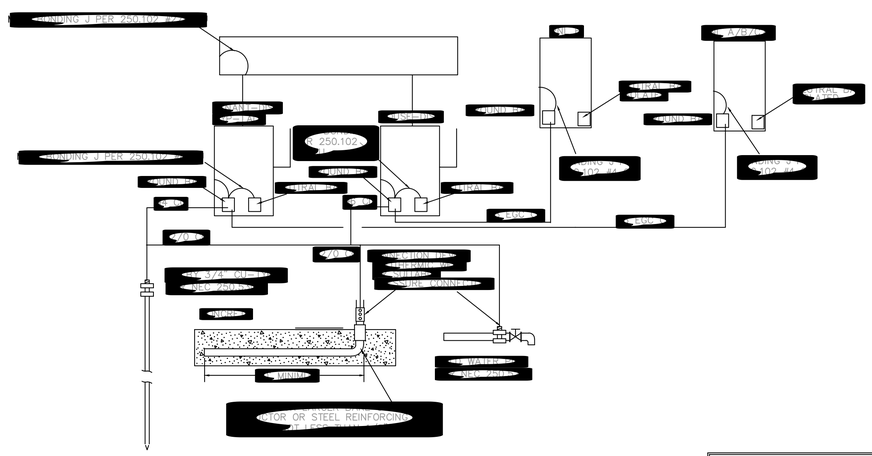
* ELECTRICAL CONTRACTOR TO VERIFY ALL HVAC ELECTRICAL EQUIPMENT SPECS PRIOR TO PURCHASE AND INSTALLATION. CONTACT ENGINEER IF ELECTRICAL LOADS DIFFERENT THAN SHOWN. ELECTRICAL CONTRACTOR SHALL VERIFY ALL HACR BREAKER SIZES AND ASSOCIATED WIRE SIZE WITH HVAC EQUIPMENT PRIOR TO PURCHASE AND INSTALLATION. FAILURE TO DO SO WILL NOT RESULT IN ANY ADDITIONAL COST TO THE OWNER, ARCH, OR ENGINEER.

** INSTALL EQUIPMENT GROUND WIRE PER NEC ART. 250 TABLE 122.

1 E-3 ELECTRICAL NOTES & SCHEDULES
SCALE: NONE



2 E3.0 POWER RISER DIAGRAM
SCALE: NONE



3 E3.0 GROUNDING DIAGRAM
SCALE: NONE

2023-218

DELTA ENGINEERING
3604 Wheeler Rd. Suite C • Augusta, GA 30909
706-364-1770 • deltaeng.net

DPR ARCHITECTURE
D'ARCANGELO PALMER RULE
12A E. GRADY STREET
P.O. BOX 1382
912-764-6288
STATESBORO
GEORGIA 30458
www.dprarch.com

OF ELECTRONIC DRAWING PRESENTATION MAY NOT BE REPRODUCED WITHOUT WRITTEN

GEORGIA REGISTERED No. 25002 PROFESSIONAL ENGINEER
12-4-24

BUILDING #2
COLDBROOK PLAZA
OLD RICHMOND ROAD

BID SET

ISSUE / REVISION

ELECTRICAL NOTES, LEGEND, & SCHEDULES

E3.0

City Council
7224 GA Highway 21
Port Wentworth, GA 31407

SCHEDULED

Meeting: 03/20/25
Department: Administration
Category: Agreement
Prepared By: Zahnay Smoak
Department Head:

AGENDA ITEM (ID)

DOC ID:

JLG Professional A/E Services Proposal – Concession, Bleachers and Team Room Facilities

Issue/Item: JLG Architects, to provide architectural and engineering services for the Anchor Park Concession, Bleachers and Team Room Facilities.

Background: The city of Port Wentworth leadership is excited to bring new growth and an opportunity to spotlight the Anchor Park Sports Complex. By developing a Concession, Bleachers and Team Room Facility, the City is able to provide a space for the residents to enjoy sports year round as well as host tournaments. The proposed Concession, Bleachers and Team Room Facility will have the ability to serve sports goers, as well as host teams during play. This proposal is based on the various meetings and schematic drawings put together for the City of Port Wentworth.

Facts and Finding: Facilitate project kick-off meeting and building programming, develop building program and alternatives, traditional schematic design; design development, construction documents, bidding, and construction administration services as outlined. Professional architectural and engineering services are included as outlined in the scope of work.

Funding: $88,100.00

Recommendation: Approve

Professional A/E Services Proposal

Port Wentworth Concessions and Team Room Facility

March 11, 2025

To: ☒ CC: ☐ Tom Betti, File
JLG Architects

Mr. Steve Davis, MPA CPM
City Manager,
City of Port Wentworth
Via Email: sdavis@portwentworthga.gov

Regarding: Anchor Park Concession and Team Room Facility
Professional Architectural and Engineering Services

Dear Steve

JLG is excited to submit this proposal for professional architectural and engineering services for the Anchor Park Concession and Team Room Facility project. This proposal is based on JLG's early concept drawings for the City of Port Wentworth. It is anticipated that the city will retain the services of Campol Consulting Group (CCG) to help navigate the project budget and delivery.

JLG proposes the same consulting engineering partner as the Ghost Pirates and Amphitheater Facility, Nelson-Rudie and Associates (NRA). NRA is a comprehensive mechanical, electrical, plumbing, and structural engineering firm that has engineered projects in all 50 states and Canada. I have also included Trimark as the kitchen equipment and consulting company that can help lay out the kitchen equipment and provide detailed specifications to ensure proper engineering for the MEP systems. For the bleacher systems, JLG will provide a conceptual layout and specifications for the bleacher system as the basis of design to allow various bleacher companies to bid on the project.

To help expedite the contract, JLG proposes that these services be executed as an amendment to the AIA B133 contract we have with the City of Port Wentworth for the Ghost Pirates and Amphitheater project. If this is not possible, JLG will execute a new AIA 133 Contract for this project, utilizing the Ghost Pirate and Amphitheater Contract as the basis of language.

SCOPE OF WORK:

Concession and Team Room Facility

Programming Phase Services

- Facilitate project kick-off meeting and building programming.
  - JLG has completed this work before this proposal.
- Develop building layout.
  - JLG has established a concept layout. JLG will work with Thomas & Hutton on the site layout.
  - It is anticipated that multiple concepts may be required to accommodate the site, bleacher, and utility access requirements and maximize the spectator and athlete experience.
- Traditional Schematic Design, Design Development, Construction Documents, Bidding, and Construction Administration Services as outlined in AIA Document B133.

- Professional Architectural and Engineering services included are as follows:
  - Architectural, Mechanical, Electrical, and Structural Engineering
  - Kitchen equipment design and layout.
  - Bleacher concept planning and specifications
  - Coordination of Owners selected IT and AV consultants with the A/E Team
  - **Civil Engineering and Landscape Architectural services are by Owner**. JLG will assist with coordination and utility infrastructure along with site amenities.

SCHEDULE:

JLG will work with the City to develop a mutually agreed-upon schedule.

COMPENSATION:

Compensation shall be a fixed fee plus reimbursable expenses. The fee per discipline is as follows:

Architectural	$39,500
Structural Engineering	$7,500
MEP Engineering	$28,600
Kitchen equipment layout and Specifications	$7,000
Bleacher Layout and Specifications	$2,500
Total Professional Services	**$85,100**
Estimated Reimbursable Expense	$3,000*
Total w/ Expenses	**$88,100**

*If site visits can be coordinated with the Ghost Pirates and Amphitheater project the reimbursable expenses can be eliminated.

Invoicing will be submitted monthly and based on work completed. Payment is due within 30 days of the date of the invoice; if payment is not received within 30 days, finance charges of 1.5% per month will be applied.

The reimbursable expense allowance outlined above includes, but is not limited to, printing, postage, travel, hotel, car rental, postage, courier service, and printing associated with project development and design.

OTHER:

- Drawings, specifications, and other documents prepared by the Architect are instruments of the Architect's service and are for the Owner's use solely with respect to this Project. The Architect shall retain all common law, statutory and other reserved rights, including the copyright. Upon completion of the Project, or termination of this Agreement by either party, the Owner's right to use the instruments of service shall cease.
- The Owner shall provide professional credit for the Architect in the Owner's promotional materials for the Project and aptly credit any/all drawings, renderings and other documents by including JLG's logo or otherwise crediting JLG Architects by name in writing.
- JLG may stop work with not less than five business days' notice if contract is breached or payment is more than 45 days past due. Restart may take 2-4 weeks after resolution of breach or payment made.
- This Notice to Proceed is an interim agreement which may be terminated by either party upon not less than five business days' written notice and may be extended or amended only by mutual agreement. The Architect shall be compensated for services performed prior to notice of termination.

Please contact JLG Architects with any questions or concerns regarding this Interim Agreement/Notice to Proceed document.

Sincerely,



Thomas J Betti, AIA, NCARB
Senior Principal Architect and
Sports Studio Director

Please sign and date below to acknowledge your acceptance of this Interim Agreement.

Client: City of Port Wentworth, GA

Date

48'-8"

12'-0"

57'-4"

36'-0"

18'-0"

16'-8"

H.W.

KITCHEN EQUIPMENT - NEED MORE INFORMATION FROM OWNER; GREASE PIT REQUIRED

OOMS - DRY; BENCHES (18 PPL): PROVIDE CONNECTION BETWEEN TWO ROOMS FOR SEMI-PRO FOOTE

OM - DRY; BENCH (2-3 PPL)

S; MEN = (2) STALL + (3) URINALS

EDED TO INCL

(R-38), Wall (R-13+R3.8 ci or R-20 ci)

panel: 3/4" plywood + 1" insulation (XCI Ply panel)

ainscot with composite siding

tal doors and frames

epoxy floor, FRP and SS (BOH), tile (FOH)

tile on wet walls to 8'-0", flat hardi

aled concrete

EN EQUIPMENT CONSULTANT (TRIMARK - CONFIRM)

MATION ON EQUIPMENT IN MECHANICAL ROOM: SITE LIGHTING, IRRIGATION, SPLASH PAD CONTROLS,

DATE: MARCH 4, 2025
SCALE: 1/4" = 1'-0"

ANCHOR PARK: CONCESSION & TEAM ROOM STUDY

Concept Plan (3,816 GSF)

PRELIMINARY & CONCEPTUAL

JLG architects

City Council
7224 GA Highway 21
Port Wentworth, GA 31407

SCHEDULED

Meeting: 03/20/25
Department: Administration
Category: Resolution
Prepared By: Zahnay Smoak
Department Head:

AGENDA ITEM (ID)

DOC ID:

Transfer of Land to the Port Wentworth Development Authority

Issue/Item: Transfer of Land to the Port Wentworth Development Authority

Background: Anchor Park is going to have the Ice Cove and Amphitheater as anchors of the park. The Port Wentworth Development Authority was created with the intent and purpose to enhance the economic development of the City, including the new Anchor Park. The Development Authority has certain powers and allowances to achieve its goals and purposes, and so partnering with the Development Authority on long-term projects makes financial sense for the City, our residents, and our outside partners.

Facts and Finding: The Development Authority will enter into long-term agreements with the Ghost Pirates and our entertainment and food and beverage partners to provide outstanding services and opportunities at the Ice Cove and Amphitheater facilities. This transfer has always been contemplated and openly discussed, and we are now at a point in the process where it makes sense to move forward with the transfer.

Funding:

Recommendation: Approve Resolution and Transfer of Land

RESOLTUION NO. R25-03-02

STATE OF GEORGIA
COUNTY OF CHATHAM
CITY OF PORT WENTWORTH

A RESOLUTION APPROVING THE TRANSFER OF LAND TO THE PORT WENTWORTH DEVELOPMENT AUTHORITY

WHEREAS, the Mayor and City Council is to provide for the general health, safety and welfare of the city and its residents; and

WHEREAS the Mayor and City Council has the power to use, manage, and dispose of any property owned by the City; and

WHEREAS, the Mayor and City Council has the power to acquire, dispose of, convey, and transfer real property, in fee simple or lesser interest; and

WHEREAS, O.C.G.A. § 36-37-6(h) provides the City may grant or otherwise dispose of real property to any of its Authorities, with the Port Wentworth Development Authority being such an authority of the City of Port Wentworth;

NOW, THEREFORE, BE IT RESOLVED by the City Council of City of Port Wentworth, Georgia, while in regular session as follows:

1. The City desires to transfer the land of the Ice Cove and Amphitheater, more particularly described in the accompanying Attachment, to the Port Wentworth Development Authority.
2. The Mayor is authorized to execute such necessary and proper paperwork to effectuate this Resolution.
3. City staff is directed to facilitate such transfer of property.

RESOLVED this the 20th day of March, 2025.

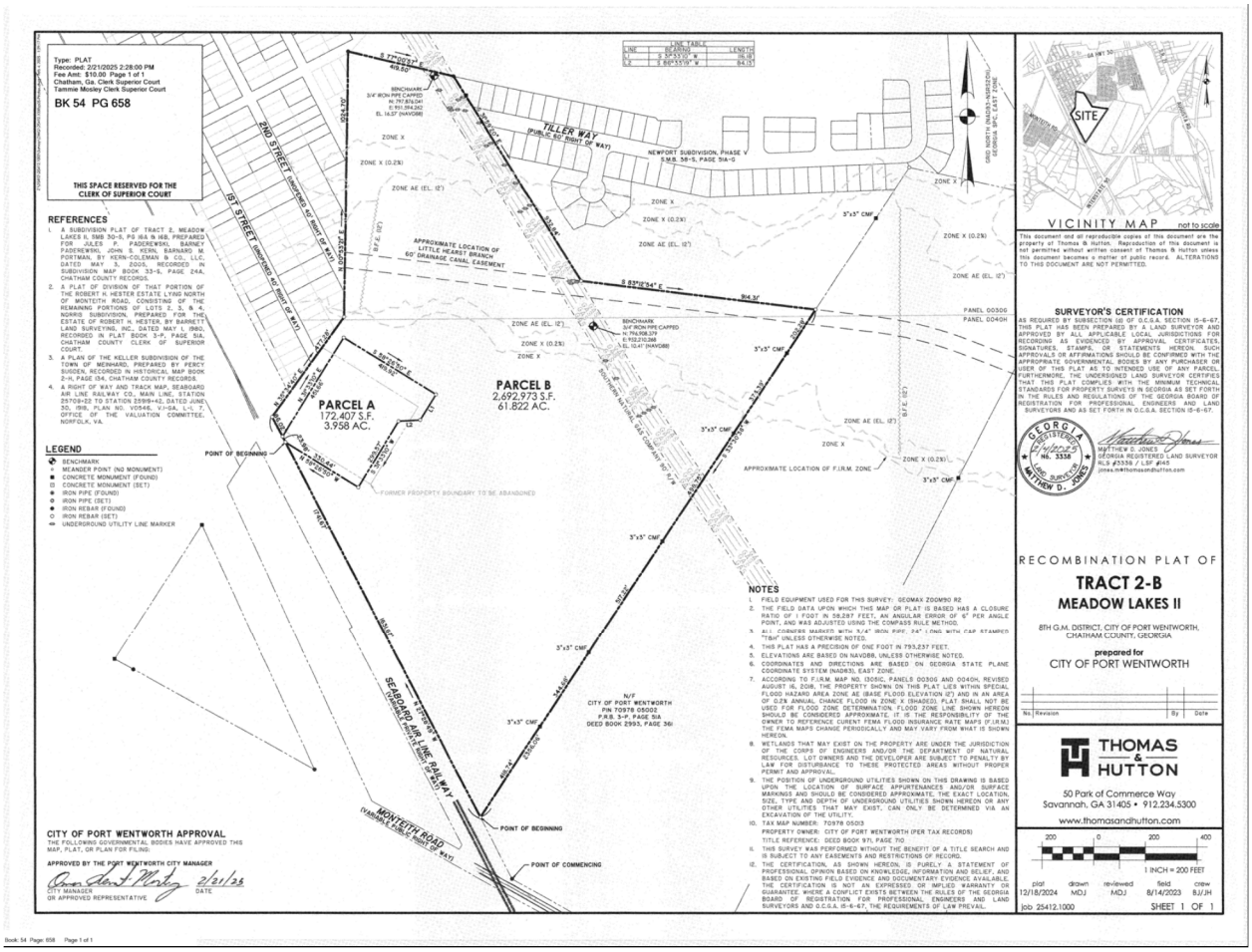
Approved:

_____
Gary Norton, Mayor

Attest:

_____
Zahnay Smiley, City Clerk

EXHIBIT A


Type: PLAT
Recorded: 2/21/2025 2:28:00 PM
Fee Amt: $10.00 Page 1 of 1
Chatham, Ga. Clerk Superior Court
Tammie Mosley Clerk Superior Court
BK 54 PG 658
THIS SPACE RESERVED FOR THE CLERK OF SUPERIOR COURT
REFERENCES
1. A SUBDIVISION PLAT OF TRACT 2, MEADOW LAKES II, 1986 30-5, PG 66 & 98, PREPARED FOR JULES P. PADEREWSKI, BARNEY PADEREWSKI, JOHN S. KERN, BARNARD M. PORTMAN, BY KERN-COLEMAN & CO., LLC, DATED MAY 3, 2005, RECORDED IN SUBDIVISION MAP BOOK 33-5, PAGE 24A, CHATHAM COUNTY RECORDS.
2. A PLAT OF DIVISION OF THAT PORTION OF THE ROBERT H. HESTER ESTATE LYING NORTH OF MONTEITH ROAD, CONSISTING OF THE REMAINING PORTIONS OF LOTS 2, 3, & 4, NORRIS SUBDIVISION, PREPARED FOR THE ESTATE OF ROBERT H. HESTER, BY BARRETT LAND SURVEYING, INC., DATED MAY 1, 1980, RECORDED IN PLAT BOOK 3-P, PAGE 51A, CHATHAM COUNTY CLERK OF SUPERIOR COURT.
3. A PLAN OF THE KELLER SUBDIVISION OF THE TOWN OF MENHARD, PREPARED BY PERCY SUGDEN, RECORDED IN HISTORICAL MAP BOOK 2-H, PAGE 134, CHATHAM COUNTY RECORDS.
4. A RIGHT OF WAY AND TRACK MAP, SEABOARD AIR LINE RAILWAY CO., MAIN LINE, STATION 25709+22 TO STATION 2599+42, DATED JUNE 30, 1915, PLAN NO. V0546, V1-0A, L-1, 7, OFFICE OF THE VALUATION COMMITTEE, NORFOLK, VA.
LEGEND
BENCHMARK
METEOR POINT (NO MONUMENT)
CONCRETE MONUMENT (FOUND)
CONCRETE MONUMENT (SET)
IRON PIPE (FOUND)
IRON PIPE (SET)
IRON REBAR (FOUND)
IRON REBAR (SET)
UNDERGROUND UTILITY LINE MARKER
CITY OF PORT WENTWORTH APPROVAL
THE FOLLOWING GOVERNMENTAL BODIES HAVE APPROVED THIS MAP, PLAT, OR PLAN FOR FILING:
APPROVED BY THE PORT WENTWORTH CITY MANAGER
CITY MANAGER OR APPROVED REPRESENTATIVE
DATE
2/21/25
LINE TABLE
LINE BEARING LENGTH
L1 S 89°53'10" W 116.13'
L2 S 89°53'10" W 84.15'
BENCHMARK 3/4" IRON PIPE CAPPED N: 797,876.041 E: 551,594.262 EL. 16.57' (NAVD88)
TILLER WAY (PUBLIC RD RIGHT OF WAY)
NEWPORT SUBDIVISION, PHASE V S.M.B. 58-5, PAGE 51A-G
2ND STREET (UNKNOWN RIGHT OF WAY)
1ST STREET (UNKNOWN RIGHT OF WAY)
APPROXIMATE LOCATION OF LITTLE HEARST BRANCH 60' DRAINAGE CANAL EASEMENT
PARCEL A
172,407 S.F.
3.958 AC.
PARCEL B
2,692,973 S.F.
61.822 AC.
POINT OF BEGINNING
FORMER PROPERTY BOUNDARY TO BE ABANDONED
SOUTHERN NATURAL GAS COMPANY 80' R/W
APPROXIMATE LOCATION OF F.I.R.M. ZONE
SEABOARD AIR LINE RAILWAY (VARIABLE WIDTH RIGHT OF WAY)
MONTEITH ROAD (VARIABLE WIDTH RIGHT OF WAY)
POINT OF BEGINNING
POINT OF COMMENCING
N/F
CITY OF PORT WENTWORTH
PIN 70978 05002
P.B.B. 3-P, PAGE 50A
DEED BOOK 2993, PAGE 361
BENCHMARK 3/4" IRON PIPE CAPPED N: 795,908.379 E: 552,210.268 EL. 10.41' (NAVD88)
PANEL 0030G
PANEL 0040H
ZONE X
ZONE X (0.2%)
ZONE AE (EL. 12')
B.F.E. (12')
3"x3" CMF
NOTES
1. FIELD EQUIPMENT USED FOR THIS SURVEY: GEOMAX ZOOM90 R2
2. THE FIELD DATA UPON WHICH THIS MAP OR PLAT IS BASED HAS A CLOSURE RATIO OF 1 FOOT IN 58,287 FEET, AN ANGULAR ERROR OF 5" PER ANGLE POINT, AND WAS ADJUSTED USING THE COMPASS RULE METHOD.
3. ALL CORNERS MARKED WITH 5/4" IRON PIPE, 24" LONG WITH CAP STAMPED "T&H" UNLESS OTHERWISE NOTED.
4. THIS PLAT HAS A PRECISION OF ONE FOOT IN 793,237 FEET.
5. ELEVATIONS ARE BASED ON NAVD88, UNLESS OTHERWISE NOTED.
6. COORDINATES AND DIRECTIONS ARE BASED ON GEORGIA STATE PLANE COORDINATE SYSTEM (NAD83), EAST ZONE.
7. ACCORDING TO F.I.R.M. MAP NO. 13051C, PANELS 0030G AND 0040H, REVISED AUGUST 16, 2018, THE PROPERTY SHOWN ON THIS PLAT LIES WITHIN SPECIAL FLOOD HAZARD AREA ZONE AE (BASE FLOOD ELEVATION (E') AND IN AN AREA OF 0.2% ANNUAL CHANCE FLOOD IN ZONE X (SHADED). PLAT SHALL NOT BE USED FOR FLOOD ZONE DETERMINATION. FLOOD ZONE LINE SHOWN HEREON SHOULD BE CONSIDERED APPROXIMATE. IT IS THE RESPONSIBILITY OF THE OWNER TO REFERENCE CURENT FEMA FLOOD INSURANCE RATE MAPS (F.I.R.M.) THE FEMA MAPS CHANGE PERIODICALLY AND MAY VARY FROM WHAT IS SHOWN HEREON.
8. WETLANDS THAT MAY EXIST ON THE PROPERTY ARE UNDER THE JURISDICTION OF THE CORPS OF ENGINEERS AND/OR THE DEPARTMENT OF NATURAL RESOURCES. LOT OWNERS AND THE DEVELOPER ARE SUBJECT TO PENALTY BY LAW FOR DISTURBANCE TO THESE PROTECTED AREAS WITHOUT PROPER PERMIT AND APPROVAL.
9. THE POSITION OF UNDERGROUND UTILITIES SHOWN ON THIS DRAWING IS BASED UPON THE LOCATION OF SURFACE APPURTENANCES AND/OR SURFACE MARKINGS AND SHOULD BE CONSIDERED APPROXIMATE. THE EXACT LOCATION, SIZE, TYPE AND DEPTH OF UNDERGROUND UTILITIES SHOWN HEREON OR ANY OTHER UTILITIES THAT MAY EXIST, CAN ONLY BE DETERMINED VIA AN EXCAVATION OF THE UTILITY.
10. TAX MAP NUMBER: 70978 05013
PROPERTY OWNER: CITY OF PORT WENTWORTH (PER TAX RECORDS)
TITLE REFERENCE: DEED BOOK 971, PAGE 710
11. THIS SURVEY WAS PERFORMED WITHOUT THE BENEFIT OF A TITLE SEARCH AND IS SUBJECT TO ANY EASEMENTS AND RESTRICTIONS OF RECORD.
12. THE CERTIFICATION, AS SHOWN HEREON, IS PURELY A STATEMENT OF PROFESSIONAL OPINION BASED ON KNOWLEDGE, INFORMATION AND BELIEF, AND BASED ON EXISTING FIELD EVIDENCE AND DOCUMENTARY EVIDENCE AVAILABLE. THE CERTIFICATION IS NEITHER AN EXPRESS OR IMPLIED WARRANTY OR GUARANTEE WHERE A CONFLICT EXISTS BETWEEN THE RULES OF THE GEORGIA BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS AND LAND SURVEYORS AND O.C.G.A. 15-6-67, THE REQUIREMENTS OF LAW PREVAIL.
VICINITY MAP not to scale
SITE
This document and all reproducible copies of this document are the property of Thomas & Hutton. Reproduction of this document is not permitted without written consent of Thomas & Hutton unless this document becomes a matter of public record. ALTERATIONS TO THIS DOCUMENT ARE NOT PERMITTED.
SURVEYOR'S CERTIFICATION
AS REQUIRED BY SUBSECTION (d) OF O.C.G.A. SECTION 15-6-67, THIS PLAT HAS BEEN PREPARED BY A LAND SURVEYOR AND APPROVED BY ALL APPLICABLE LOCAL JURISDICTIONS FOR RECORDING AS EVIDENCED BY APPROVAL CERTIFICATES, SIGNATURES, STAMPS, OR STATEMENTS HEREON. SUCH APPROVALS OR AFFIRMATIONS SHOULD BE CONFIRMED WITH THE APPROPRIATE GOVERNMENTAL BODIES BY ANY PURCHASER OR USER OF THIS PLAT AS TO INTENDED USE OF ANY PARCEL. FURTHERMORE, THE UNDERSIGNED LAND SURVEYOR CERTIFIES THAT THIS PLAT COMPLIES WITH THE MINIMUM TECHNICAL STANDARDS FOR PROPERTY SURVEYS IN GEORGIA AS SET FORTH IN THE RULES AND REGULATIONS OF THE GEORGIA BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS AND LAND SURVEYORS AND AS SET FORTH IN O.C.G.A. SECTION 15-6-67.
GEORGIA REGISTERED No. 3338 LAND SURVEYOR MATTHEW D. JONES
MATTHEW D. JONES
GEORGIA REGISTERED LAND SURVEYOR
RLS #3338 / LSF #145
jones.m@thomasandhutton.com
RECOMBINATION PLAT OF
TRACT 2-B
MEADOW LAKES II
8TH G.M. DISTRICT, CITY OF PORT WENTWORTH, CHATHAM COUNTY, GEORGIA
prepared for
CITY OF PORT WENTWORTH
No. Revision By Date
THOMAS & HUTTON
50 Park of Commerce Way
Savannah, GA 31405 • 912.234.5300
www.thomasandhutton.com
200 0 200 400
1 INCH = 200 FEET
plat 12/18/2024 drawn MDJ reviewed MDJ field 8/14/2023 crew BJ/JH
job 25412.1000
SHEET 1 OF 1

City Council
7224 GA Highway 21
Port Wentworth, GA 31407

SCHEDULED

Meeting: 03/20/25
Department: Administration
Category: Resolution
Prepared By: Zahnay Smoak
Department Head:

AGENDA ITEM (ID)

DOC ID:

Elections Superintendent Resolution

Issue/Item: Resolution for Board of Elections

Background: The Chatham County Board of Elections has performed the duties of municipal elections superintendent for Port Wentworth in the past, and continue to desire to do so for this year's elections. In order to do continue this system, the City needs to pass this Resolution, which is nearly identical to the Resolution for the 2023 elections.

Facts and Finding: The Council has the authority under State law to authorize the County Board of Elections to perform the duties as municipal superintendent. This Resolution formally requests and allows this successful partnership to continue.

Funding:

Recommendation: Approve the Resolution

STATE OF GEORGIA)
COUNTY OF CHATHAM)
CITY OF PORT WENTWORTH)

RESOLUTION NO. R25-03-20

RESOLUTION

WHEREAS, The Board of Elections of Chatham County, Georgia, wishes to continue performing all duties as the municipal superintendent of elections for Port Wentworth as specified under Chapter 2 of Title 21 of the Official Code of Georgia Annotated except the duty of receiving and determining the qualifications of candidates filing a notice of their candidacy in municipal elections; and,

WHEREAS, the Council has the authority, pursuant to Section 21-2-45 of the Official Code of Georgia Annotated, to authorize The Board of Elections of Chatham County, Georgia, to perform all duties as municipal superintendent of elections with the exception of the qualification of candidates; and,

WHEREAS, the Council has authority pursuant to Section 5.10 and 5.20 of its Code of Ordinances to appoint, by resolution, the Board of Elections of Chatham County, Georgia, to perform all duties of the municipal superintendent of elections in Port Wentworth, Georgia, with the exception of the qualification of candidates which shall be the responsibility of a qualified individual appointed by Council; and,

WHEREAS, the Council has the authority pursuant to Section 21-2-380.1 of the Official Code of Georgia Annotated to authorize the Chatham County Board of Registration to perform the duties of absentee ballot clerk; and,

WHEREAS, the Council deems its Clerk of Council qualified to qualify candidates in municipal elections;

NOW, THEREFORE, BE IT RESOLVED, by the Mayor and Council of Port Wentworth, Georgia, in regular session assembled, that the Board of Elections of Chatham County, Georgia, perform all duties as the municipal superintendent of elections in Port Wentworth, Georgia, with the exception of the qualification of candidates which shall be the responsibility of the Clerk of Council, and that the Chatham County Board of Registration further performs the duties of absentee ballot clerk. Pursuant to Section 21-2-132(c)(3) of the Official Code of Georgia Annotated, qualifying for Mayor and City Council will take place at Port Wentworth City Hall, 7224 GA Highway 21, Port Wentworth, Georgia, commencing on Monday August, the 18th, 2025, at 8:30 a.m. and ending on the following Thursday, August 21st, 2025, at 4:30 p.m.

ADOPTED this _____ day of _____, 2025

_____ (Mayor)

RECEIVED AND APPROVED this _____ day of _____, 2025

_____ (Clerk of Council)