SUBLEASE AGREEMENT

THIS SUBLEASE, hereinafter "Lease Agreement", made this _____ day of _____, _____ by and between Guilford County, a North Carolina body politic, (hereinafter "Lessor") and Sandhills Center, a Local Management Entity-Managed Care Organization, (hereinafter "Lessee");

WITNESSETH:

WHEREAS, Lessee is a multi-county area mental health program provider which desires to serve the Guilford County Area: and

WHEREAS, the City of Greensboro ("Owner") is the Owner of the parcel of land and improvement thereon, including a facility located at 201 North Eugene Street, Greensboro, NC, including the first and second floors of the Bellemeade Building, as depicted on Exhibit B as "Leased Premises," and

WHEREAS, Guilford County is leasing said premises from the City of Greensboro ("the City Lease"), and

WHEREAS, Sandhills Center (Lessee) wishes to lease those premises, except for the Bellemeade Building's basement, (hereafter "Premises") for use as a mental health facility; and

WHEREAS, Guilford County (Lessor) desires to sublet the Premises to Lessee, and Lessee is willing to lease the Premises on the terms and conditions set forth herein, all of which are acceptable to Lessor.

NOW, THEREFORE, in consideration of the mutual covenants contained herein, the receipt and sufficiency of which are hereby acknowledged, Lessor leases to Lessee, and Lessee takes and hires from Lessor, the Premises, and upon the following terms and conditions of this Lease:

1. Term and Rental. The term of this lease shall be a one-year term, beginning on _____, 2019. The lease shall automatically extend for terms of one year for up to one renewal and, if necessary, one 6-month extension, subject to either party's privilege to cancel this lease due to the existence of any of the conditions as specified in Paragraph 2 below, at the rate of One Dollar ($1.00) per year, due and payable on the first of every year of the term, until the termination of this Lease Agreement. Lease will automatically terminate when Lessor lease with Owner terminates.

2. Cancellation Privilege. This Lease Agreement may be canceled at the option of the Parties upon the occurrence of any of the following conditions:

    a) If the premises are found to be in violation of any federal, state, or local law, regulation, or ordinance, thereby substantially limiting Lessee's

use of the Premises, including the American with Disabilities Act, Occupational Safety and Health Act, and other laws, regulations or ordinances pertaining to handicapped access, health, and safety and, after notice of violation from the Lessee, Lessor fails to make necessary repairs of improvements within a reasonable time to conform the Premises to the applicable law, regulation, or ordinance:

b) At any time upon sixty (60) days notice upon dissolution of the Lessee's agency;
c) At any time upon one hundred twenty (120) days notice when the facilities located on the Premises are no longer needed for any services or legitimate business purpose relating to the operation of the Lessee; or
d) Upon the breach of any covenant or condition of this Lease Agreement

If at any point the option to extend is not exercised by Lessor, to the extent required, Lessor will locate and provide alternative county property in similar condition with approximately the same square footage and with adequate parking for use by Lessee under the same terms of this Lease Agreement and in accordance with the terms set forth in the Master Agreement (Guilford County Contract No. 00509D-09/12-078). It is expressly agreed that any relocation shall not cause any interruption of services provided by Lessee to the citizens of Guilford County.

If at any time during the life of the lease the building (1st and 2nd floors) located on this property is, in the sole discretion of Lessee, no longer needed for any services or legitimate business purpose relating to the operation of lessee, the lease will terminate upon 30 days' notice by either party, and the use of the lease hold shall revert to Guilford County.

3. Covenants of Lessee.
   a) Rent. Lessee covenants and agrees to pay rent at the time and in the manner required in this lease, except only in the case of fire or other unavoidable casualty as provided in this lease.
   b) Utility Charges. Lessee covenants and agrees to pay all charges for water, sewage disposal, gas, electricity, power, telephone or other utility services used, rendered or supplied to/for the Premises.
   c) Operating Expenses. Lessee covenants and agrees to pay costs and expenses relating to the costs and expenses of trash/dumpster, and janitorial and cleaning services, and to contract for the same in Lessee's own name, as the same are used in the Lessee's operations on the Premises. Lessee covenants and agrees to pay costs and expenses relating to charges associated with trash/dumpster services, elevator maintenance and lawn maintenance.
   d) Maintenance and Repair Expenses. Lessee covenants and agree to maintain, repair, replace and keep the Premises and all improvements,

fixtures, plumbing, electrical, interior painting, carpet/tile and personal property thereon in good, safe and sanitary condition, order and repair in accordance with all applicable laws, ordinance, orders, rules and regulations (including without limitation, the Americans with Disabilities Act) of governmental authorities having jurisdiction, now existing or hereafter enacted; to pay all costs and expenses in connection therewith; and to contract for the same in Lessee's own name. All maintenance and repairs by Lessee shall be done promptly, in a good and workmanlike fashion, and without diminishing the original quality of the Premises. Lessor shall be responsible for all generator and heating and air conditioning preventive maintenance and repairs, and shall bear the costs and expenses of replacement of, or extraordinary maintenance and repairs to, roofs, exterior walls, and structural elements of the Premises, including, but not limited to, the heating and air conditioning system, unless the need for such replacement or repair is caused by the act or neglect of the Lessee. The Lessor shall be responsible for maintaining a pest control program in place on the Premises. The Lessor reserves the right to conduct routine inspections of the Premises.

e) Limitation on use by Lessee. Lessee covenants and agrees to use the Premises only for the management and delivery of services to consumers in need of mental health, development disability and substance abuse services, and for no other purposes, except with the prior written consent of Lessor.

f) Compliance with Laws. Lessee covenants and agrees that nothing shall be done or kept on the Premises in violation of any law, ordinance, order, rule or regulation of any governmental authority having jurisdiction, and that the Premises shall be used, kept and maintained in compliance with any such law, ordinance, order, rule or regulation (now existing or hereafter enacted) and with the certificate of occupancy issued for the Premises.

g) Compliance with Insurance Requirements. Lessee covenants and agrees that nothing shall be done or kept on the Premises which shall make unavailable or increase the cost of insurance maintained with respect to the Premises, which might increase the insured risks or which might result in cancellation of any such insurance.

h) No Waste or impairment of Value. Lessee covenants and agrees that nothing shall be done or kept on the Premises which might impair the value of the Premises or which would constitute waste.

i) No Hazardous Use. Lessee covenants and agrees that nothing shall be done or kept on the Premises which might be unsafe or hazardous to any person or property, and Lessee covenants and agrees that no improvements, changes, alterations, additions, maintenance or repairs

shall be made to the Premises which might be unsafe or hazardous to any person or property.

j) No Structural or Overloading. Lessee covenants and agrees that nothing shall be done or kept, and no improvements, changes, alterations, additions, maintenance or repairs shall be made on the Premises which might impair the structural soundness of the Premises, which might result in an overload of the weight capacity of floors or of electricity lines serving the Premises, or which might interfere with electric or electronic equipment in the Premises or on any adjacent or nearby property. In the event of violations hereof, Lessee covenants and agrees to remedy immediately the violation at Lessee's expense and in compliance with all requirements of governmental authorities and insurance underwriters.

k) No Nuisance, Noxious or Offensive Activity. Lessee covenants and agrees that no noxious or offensive activity shall be carried upon the Premises, nor shall anything be done or kept on the Premises which may be or become a public or private nuisance or which may cause embarrassment, disturbance, or annoyance to other on adjacent or nearby property.

l) No Violation of Covenants. Lessee covenants and agrees not to commit, suffer or permit any violation of any covenants, conditions or restrictions affecting the Premises.

m) No Mechanics Liens. Lessee covenants and agrees not to permit or suffer, and to cause to be removed and released, any mechanics, materialmen or other lien on account of supplies, machinery, tools, equipment labor or material furnished or used in connection with construction, alteration, improvement, addition to or repair of the Premised by, through or under Lessee.

n) Removal of Lessee's Equipment. Lessee covenants and agrees to remove, not later than the expiration date of the Lease Term, all of the Lessee's equipment, as hereinafter defined. "Lessee's Equipment" shall mean all equipment, apparatus, machinery, signs, furniture, furnishing and personal property used in the operation of the business of Lessee (as distinguished from the use and operation of the Premises). If such removal shall injure or damage the Premises, Lessee covenants and agrees, at its sole cost and expense, at or prior to the expiration of the Lease Term, to repair such injury and damage in good and workmanlike fashion and to place the Premises in the same condition as the Premises would have been in if such Lessee's Equipment had not been installed.

o) Lessee's Indemnification of Lessor. Lessee (for itself and its insurer) waives any rights, including rights of subrogation, and Lessee (for itself and its insurer) waives any rights, including rights of subrogation, each

may have against the other for compensation of any loss or damage occasioned to Lessor or Lessee arising from any risk generally covered by the "all risks" insurance required to be carried by Lessor and Lessee. The foregoing waivers of subrogation shall be operative only so long as available in the state of North Carolina. The foregoing waivers shall be effective whether or not the parties maintain the insurance required to be carried pursuant to this Lease. Except as provided hereinbefore, Lessee indemnifies Lessor for damages proximately cause by the negligence or wrongful conduct of Lessee and Lessee's employees, agents, invitees, or contractors. The indemnity provisions in this paragraph cover personal injury and property damage and shall bind employees, agents, invitees, or contractors of Lessee. The indemnity obligations of this paragraph shall survive the expiration or earlier termination of this Lease.

p) Surrender Upon Lease Expiration. Upon the expiration or earlier termination of this lease, or on the date specified in any demand for possession by Lessor after any default by Lessee, Lessee covenants and agrees to surrender possession of the Premises to Lessor in the same condition as when Lessee first occupied the Premises, ordinary wear and tear and damage by fully insured casualty excepted.

q) Compliance with ADA. Lessee covenants and agrees that nothing shall be done or kept by Lessee on the Premises in violation of the Americans with Disabilities Act, (hereafter "ADA"), and that Lessee shall conduct its business within the Premises, in accordance with the requirements of the ADA. If any improvements, alterations or repairs to the Premises are required by governmental authority under the ADA or its implementing regulations or guidelines, Lessee shall be solely responsible for all non-structural items and any structural items due to Lessee's specific use of Premises.

r) Alterations. Lessee shall not make any alterations, additions, or improvements to the Premises without Lessor's prior written consent, which consent shall not be unreasonably withheld, conditioned or delayed. Lessee shall promptly remove any alterations, additions, or improvements constructed in violation of this paragraph upon Lessor's written request. All approved alterations, additions, and improvements will be accomplished in a good and workmanlike manner, in conformity with all applicable laws and regulations, and by a contractor approved by Lessor, free of any liens or encumbrances, and with oversight provided by the Lessor's designee. Lessor may require Lessee to remove any alterations, additions or improvements (whether or not made with Lessor's consent) at the termination of the Lease and to restore the Premises to its prior condition, all at Lessee's expense. All alterations, additions and improvements which Lessor has not required

Lessee to remove shall become Lessor's property and shall be surrendered to Lessor upon the termination of this Lease, except that Lessee may remove any of Lessee's machinery, equipment or trade fixtures which can be removed without material damage to the Premises. Lessee shall repair, at Lessee's expense, any damage to the Premises caused by the removal of any such machinery, equipment or trade fixtures.

4. Covenants of Lessor.
   a) Lessee acknowledges and accepts that Owner intends to make, at Owner's expense, alterations to and demolition of the building and other improvements to the Leased Premises in accordance with the plans attached hereto as Exhibit C, incorporated herein by reference as if fully set out ("the Demolition of Renovations").
   b) The Demolition and Renovations will allow for the present uses of the building located on the Premises ("the Building"), including but not limited to the provision of mental health crisis care services, to continue Uninterrupted through the term of this Lease (included any Extended Term);
   c) Prior to any demolition or other activity that would otherwise interrupt the use of the Building, Owner will perform renovations, subject to Lessor's approval, which will not be unreasonable withheld, that will allow the Building to maintain its operations Uninterrupted;
   d) The Demolition and Renovations will be performed in a sequence and manner that is to Lessor's reasonable satisfaction, in compliance with all applicable legal requirements (including but not limited to the ADA, as amended), designed to avoid negative impacts on the use of the Building and the provision of services therein, and in good and workmanlike manner; and
   e) Owner shall provide proof of liability insurance to Lessor's reasonable satisfaction covering any contractor(s) (including but not limited to architects, engineers, and subcontractors) performing any part of the Demolition and Renovations prior to the performance of such contractor(s)' services and/or work.
   f) Owner may, at its expense, (i) construct upon the Property, but not upon the Leased Premises, any additional buildings, structures, or other improvements and (ii) install, assemble, or place upon the Property, but not upon the Leased Premises, any items of machinery or equipment used or useful in Owner's construction of the Eugene Street Parking Deck. Such activities may be performed in a way so that the use of the Building shall remain Uninterrupted.

For the purposes of the Agreement, "Uninterrupted" shall mean that the Mental Health Facility will remain operable, despite minor and reasonable disruptions

and accommodations necessitated by the demolition, rehabilitation, and construction activity set out hereinabove.

5. Lessor's Indemnification of Lessee. Lessee (for itself and its insurer) waives any rights, including rights of subrogation, and Lessee (for itself and its insurer) waives any rights, including rights of subrogation, each may have against the other for compensation of any loss or damage occasioned to the Lessor or Lessee arising from any risk generally covered by the "all risks" insurance required to be carried by Lessor and Lessee. The foregoing waivers of subrogation shall be operative only so long as available in the state of North Carolina. The foregoing waivers shall be effective whether or not the parties maintain the insurance required to be carried pursuant to this lease. Except as provided hereinbefore, Lessor indemnifies Lessee for damages proximately caused by the negligence or wrongful conduct of Lessor and Lessor's employees, agents, invitees, or contractors. The indemnity provisions in this paragraph cover personal injury and property damage and shall bind employees, agents, invitees, or contractors of Lessor. The indemnity obligations of this paragraph shall survive the expiration or earlier termination of this Lease.

6. Assignment. Lessor covenants and agrees that the Lessee shall have the right to assign or sublease the Premises to any entity, public or private, that manages and delivers mental health, developmental disabilities, and substance abuse services, provided that the assignee or sublease of this Lease Agreement shall agree to assume all obligations of the Lessee created by the Lease Agreements. The Lessee may assign or sublease the Premises to any other entity for any other purpose upon the written permission of the Lessor, such permission not to be unreasonably withheld.

7. Parking Area. The Premises shall include the existing eighteen (18) parking spaces highlighted on Exhibit ___. Owner will also provide up to sixty-five (65) additional parking spaces in the Bellemeade Street Parking Deck. In addition to the aforementioned parking spaces, Owner shall be responsible for constructing two emergency vehicle parking spaces on the Leased Premises in the location highlighted on Exhibit ___ prior to removing from service the current emergency vehicle parking.

8. Implementation of Indemnification. For the purposes of implementing the foregoing agreements to indemnify each other, the parties agree:

   a) If any claim, demand or liability arises in respect to which a party is entitled to indemnification, such party shall promptly notify the other party in writing of the claim, demand or liability, and shall give the other party all relevant information in respect to the claim. The other party shall then

undertake to defend or settle the claim, and all monies expended in the defense for settlement, together with costs, expenses, and attorney's fees, shall be paid by the other party.

b) If for some reason the other party is unable to defend the claim, demand or liability, the other party shall notify the party of the inability in writing, and the party shall be required to defend or settle the claim diligently and as effectively as it can. Any money required for the defense or settlement, together with all costs, expenses, and attorneys' fees, shall be promptly paid by the other party. If prompt payment is not made by the other party, then the party shall have the right to make the payment and require the other party to pay the party the amount paid plus interest at eight (8%) percent per annum on any amounts that the other party does not pay. The interest shall accrue on any amounts that are not reimbursed until the party has been fully reimbursed for all the money paid.

9. Fire and Other Unavoidable Casualty. If, during the term of this lease, any building on said premises be destroyed, injured or damaged by fire, the elements, or other cause so as to be unfit to occupy of the building or if said building or premises are condemned or declared unsafe, the Lessee or Lessor shall have the option of immediately terminating the Lease in its entirety or declaring it null and void, except that Lessor shall provide alternative suitable space as provided for in Paragraph 2 of this Lease Agreement. Lessor shall be under no obligation to repair or rebuild said premises.

10. Right of Re-Entry. If Lessee shall neglect or fail to perform any of its covenants, and in particular, if any installment of rent is overdue and unpaid for fifteen (15) days, Lessor may, after thirty (30) day's written notice, enter into the Premises and terminate the Lease.

11. Maintaining Insurance. Lessor shall secure and maintain property, casualty and fire insurance coverage for the Premises from an insurance carrier which has obtained an A+ rating, or from any other carrier satisfactory to the Lessee. Said insurance coverage shall remain in effect through the termination of the lease term. Lessor shall keep proof of insurance on file, and Lessee shall have the right to inspect such proof of insurance. Lessor shall be the named payee on the insurance policy and contract. Lessee shall maintain insurance coverage for the contents of the Premises, and Lessee shall be the named payee on the policy.

12. Notices and Demands. All notices, demands, and requests which may be given or which are required to be given by either party to the other must be in writing. All notices, demands, and requests by Lessor or Lessee shall be addressed as follows (or to such other address as a party may specific by duly given notice):

Lessor	Lessee
County of Guilford	Sandhills Center
301 West Market Street	1120 Seven Lakes Drive
P.O. Box 3472	P.O. Box 9
Greensboro, NC 27401	West End, NC 27376
(336) 641-3802	(910) 673-9111

Notices, demands or requests which Lessor or Lessee are required or desire to give the other hereunder shall be deemed to have been properly given for all purposes if (i) delivered against a written receipt of delivery, (ii) mailed by express, registered or certified mail of the United States Postal Service, return receipt requested, postage prepaid, or (iii) delivered to a nationally recognized overnight courier service for next business day delivery, to its addressee at such party's address as set forth above or (iv) delivered via telecopier or facsimile transmission to the facsimile number listed above, provided, however, that if such communication is given via telecopier or facsimile transmission, an original counterpart of such communication shall be sent concurrently in either the manner specified in section (ii) or (iii) above and written confirmation of receipt of transmission shall be provided. Each such notice, demand or request shall be deemed to have been received upon the earlier of the actual receipt or refusal by the addressee or three (3) business days after deposit thereof at any main or branch United States Post Office if sent in accordance with section (ii) above, and the next business day after deposit thereof with the courier if sent pursuant to section (iii) above. The parties shall notify the other of any change in address, which notification must be at least fifteen (15) days in advance of it being effective.

13. Time of the Essence. Time is of the essence under this lease, and all provisions herein relating thereof shall be strictly construed.

14. Captions for Convenience. The headings and captions hereof are for convenience only and shall not be considered in interpreting the provisions hereof.

15. Severability. If any provision of this Lease shall be held invalid or unenforceable, the remainder of this Lease shall not be affected thereby, and there shall be deemed substituted for the affected provisions a valid and enforceable provision as similar as possible to be affected provision.

16. Governing Law. This Lease shall be interpreted and enforced according to the laws of the State of North Carolina.

17. Entire Agreement. This Lease constitutes the final and complete expression of the parties' agreements with respect to the Premises and Lessor's occupancy thereof. Each party agrees that it has not relied upon or regarded as binding any prior agreements, negotiations, representations, or understandings, whether oral or written, except as expressly set forth herein. Both parties have participated in the preparation of this Lease and in resolving any ambiguities there shall be no presumption that they are construed against the drafting party.

18. No Oral Amendment or Modifications. No amendment or modification of this lease, and no approvals, consents or waiver by Lessor under this lease shall be valid or binding unless in writing and executed by the party to be bound.

19. Relationship or Lessor and Lessee. Nothing contained herein shall be deemed or construed as creating the relationship of principal and agent or of partnership, or of joint venture by the parties hereof, it being understood and agreed that no provision contained in this Lease nor any acts of the parties hereto shall be deemed to create any relationship other than the relationship of Lessor and Lessee.

20. Authority of Lessee. Each individual executing this lease on behalf of Lessee represents and warrants that such individual is duly authorized to deliver this lease on behalf of Lessee and that this Lease is binding upon Lessee in accordance with its terms, and agrees to document such authorization to Lessor's satisfaction if requested to do so.

21. Authority of Lessor. Each individual executing this Lease on behalf of Lessor represents and warrants that such individual is duly authorized to deliver this lease on behalf of Lessor and that this lease is binding upon Lessor in

accordance with its term, agrees to document such authorization to Lessee's satisfaction if requested to do so.

22. This Lease Agreement is subject to the City Lease. Notwithstanding anything else herein, Lessee's rights under this Lease Agreement are limited by and are no greater than Lessor's (County's) rights under the City Lease.

REST OF THIS PAGE LEFT INTENTIONALLY BLANK

IN WITNESS WHEREOF, Lessor and Lessee have executed this Lease under seal, in duplicate, this the _____ day of _____, _____.

FOR THE LESSOR:

County of Guilford

By: _____

Marty K. Lawing, County Manager

FOR THE LESSEE:

Sandhills Center

By: _____

Area Director

Sandhills Center for Mental Health, Developmental Disabilities and Substance Abuse

By: _____

Chairman, Area Board

Sandhills Center for Mental Health, Developmental Disabilities and Substance Abuse

WITNESSES:

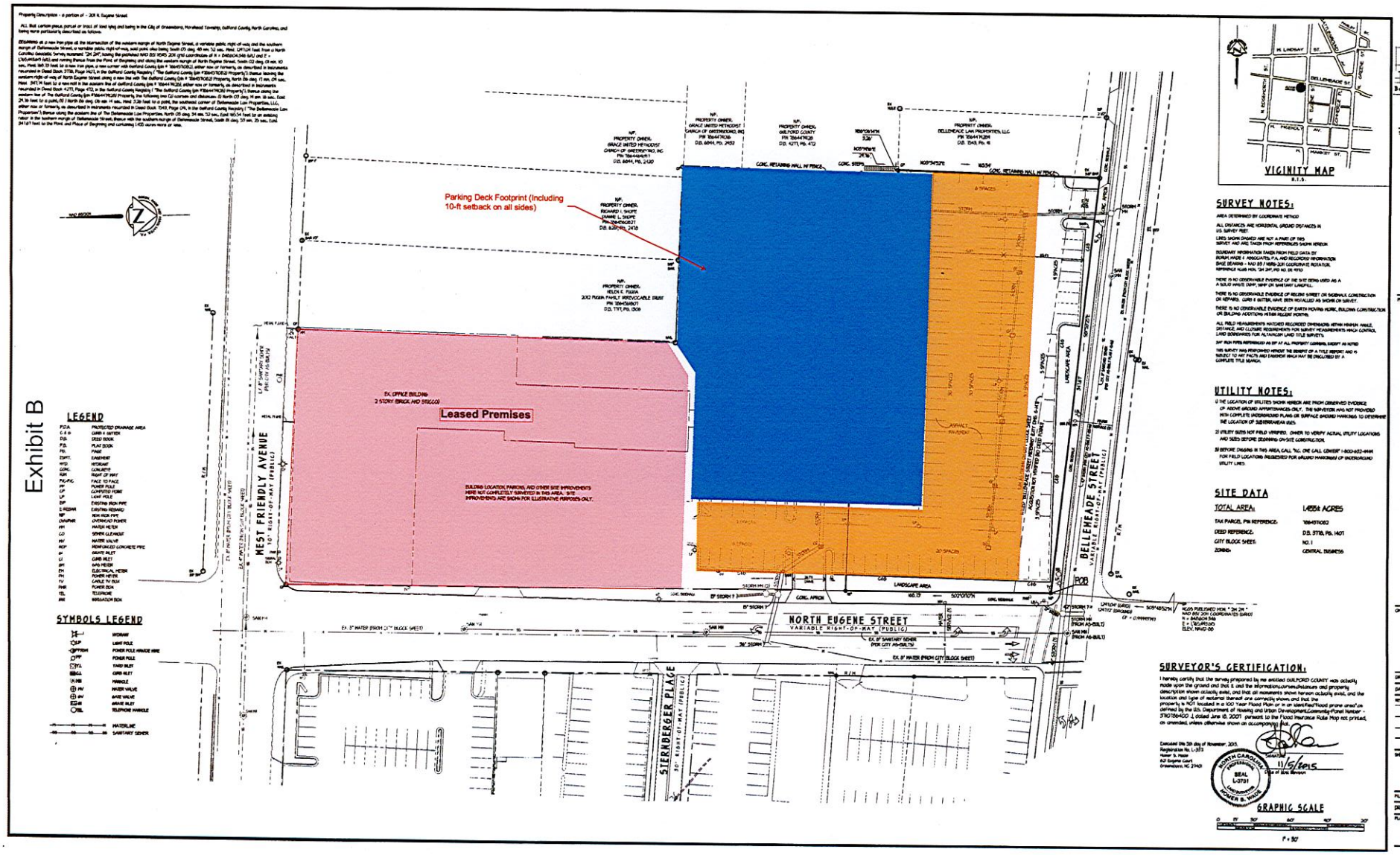
_____	_____
Signature	Date
_____	_____
Signature	Date

Exhibit B

Property Description - a portion of - 201 N. Eugene Street.

ALL that certain piece, parcel or tract of land lying and being in the City of Greensboro, Morehead Township, Guilford County, North Carolina, and being more particularly described as follows:

BEGINNING at a new iron pipe at the intersection of the western margin of North Eugene Street, a variable public right-of-way and the southern margin of Bellemeade Street, a variable public right-of-way, said point also being South 05 deg. 48 min. 52 sec. West 1,417.04 feet from a North Carolina Geodetic Survey monument "ZH 24" having the published NAD 83/2011 2011 grid coordinates of N = 840604.546 (sft) and E = 1,767,445.621 (sft) and running thence from the Point of Beginning and along the western margin of North Eugene Street, South 02 deg. 01 min. 10 sec. West 341.31 feet to a new iron pipe, a new corner with Guilford County tax # 1866470052, either now or formerly, as described in instruments recorded in Deed Book 3778, Page 1401, in the Guilford County Registry ("The Guilford County tax # 1866470052 Property"); thence leaving the western right of way of North Eugene Street along a new line with The Guilford County tax # 1866470052 Property, North 88 deg. 17 min. 04 sec. West 347.14 feet to a new nail in the western line of Guilford County tax # 1866474026, either now or formerly, as described in instruments recorded in Deed Book 4270, Page 472, in the Guilford County Registry ("The Guilford County tax #1866474026 Property"); thence along the western line of The Guilford County tax #1866474026 Property, the following two (2) courses and distances: 1) North 03 deg. 14 min. 36 sec. East 24.36 feet to a point; 2) North 86 deg. 06 min. 14 sec. West 3.26 feet to a point, the southeast corner of Bellemeade Lan Properties, LLC, either now or formerly, as described in instruments recorded in Deed Book 7243, Page 976, in the Guilford County Registry ("The Bellemeade Lan Properties"); thence along the western line of The Bellemeade Lan Properties, North 03 deg. 24 min. 52 sec. East 160.24 feet to an existing rebar in the southern margin of Bellemeade Street; thence with the southern margin of Bellemeade Street, South 86 deg. 59 min. 25 sec. East 341.67 feet to the Point and Place of Beginning and containing 1.420 acres more or less.



LEGEND

P.D.A.	PROTECTED DRAINAGE AREA
C & G	CURB & GUTTER
D.B.	DEED BOOK
P.B.	PLAT BOOK
PG.	PAGE
EMT.	EASEMENT
HYD.	HYDRANT
CONC.	CONCRETE
R/W	RIGHT OF WAY
FACE	FACE TO FACE
PP	POWER POLE
CP	COMPUTED POINT
LP	LIGHT POLE
EIP	EXISTING IRON PIPE
E REBAR	EXISTING REBAR
NIP	NEW IRON PIPE
OHP/WP	OVERHEAD POWER
WM	WATER METER
CO	SEWER CLEANOUT
WV	WATER VALVE
RCP	REINFORCED CONCRETE PIPE
GI	GRATE INLET
CI	CURB INLET
GM	GAS METER
EM	ELECTRICAL METER
PM	POWER METER
TV	CABLE TV BOX
PBB	POWER BOX
TEL	TELEPHONE
IRR	IRRIGATION BOX

SYMBOLS LEGEND

	HYDRANT
	LIGHT POLE
	POWER POLE WITH GUY WIRE
	POWER POLE
	YARD INLET
	CURB INLET
	HANDICAP
	WATER VALVE
	GAS VALVE
	GRATE INLET
	TELEPHONE PEDESTAL
	WATERLINE
	SANITARY SEWER

VICINITY MAP

N.T.S.

SURVEY NOTES:

AREA DETERMINED BY COORDINATE METHOD

ALL DISTANCES ARE HORIZONTAL GROUND DISTANCES IN U.S. SURVEY FEET

LINES SHOWN DASHED ARE NOT A PART OF THIS SURVEY AND WERE TAKEN FROM REFERENCED SHOWN HEREON.

BOUNDARY INFORMATION TAKEN FROM FIELD DATA BY BURGH, WADE & ASSOCIATES, P.A. AND RECORDED INFORMATION

BASE BEARING - NAD 83 / NSRS 2011 COORDINATE ROTATION, REFERENCE YGUS MON. "ZH 24", PID NO. DE 4770

THERE IS NO OBSERVABLE EVIDENCE OF THE SITE BEING USED AS A A SOLID WASTE DUMP, SUMP OR SANITARY LANDFILL.

THERE IS NO OBSERVABLE EVIDENCE OF RECENT STREET OR SIDEWALK CONSTRUCTION OR REPAIRS. CURB & GUTTER HAVE BEEN INSTALLED AS SHOWN ON SURVEY.

THERE IS NO OBSERVABLE EVIDENCE OF EARTH MOVING WORK, BUILDING CONSTRUCTION OR BUILDING ADDITIONS WITHIN RECENT MONTHS.

ALL FIELD MEASUREMENTS MATCHED RECORDED DIMENSIONS WITHIN MINIMUM ANGLE, DISTANCE, AND CLOSURE REQUIREMENTS FOR SURVEY MEASUREMENTS WITH CONTROL LAND BOUNDARIES FOR ALTA/ACSM LAND TITLE SURVEYS.

3/4" IRON PIPES REFERENCED AS EIP AT ALL PROPERTY CORNERS, UNLESS NOTED

THIS SURVEY WAS PERFORMED WITHOUT THE BENEFIT OF A TITLE REPORT AND IS SUBJECT TO ANY FACTS AND EASEMENTS WHICH MAY BE DISCLOSED BY A COMPLETE TITLE SEARCH.

UTILITY NOTES:

1) THE LOCATION OF UTILITIES SHOWN HEREON ARE FROM OBSERVED EVIDENCE OF ABOVE GROUND APPURTENANCES ONLY. THE SURVEYOR HAS NOT PROVIDED WITH COMPLETE UNDERGROUND PLANS OR SURFACE GROUND MARKINGS TO DETERMINE THE LOCATION OF SUBTERRANEAN USES.

2) UTILITY SIZES NOT FIELD VERIFIED. OWNER TO VERIFY ACTUAL UTILITY LOCATIONS AND SIZES BEFORE BEGINNING ON-SITE CONSTRUCTION.

3) BEFORE DIGGING IN THIS AREA, CALL "ALL ONE CALL CENTER" 1-800-632-4949 FOR FIELD LOCATIONS REQUESTED FOR GROUND MARKINGS OF UNDERGROUND UTILITY LINES.

SITE DATA

TOTAL AREA:	1.4554 ACRES
TAX PARCEL PIN REFERENCE:	1866470052
DEED REFERENCE:	D.B. 3778, Pg. 1401
CITY BLOCK SHEET:	NO. 1
ZONING:	CENTRAL BUSINESS

SURVEYOR'S CERTIFICATION:

I hereby certify that the survey prepared by me entitled GUILFORD COUNTY was actually made upon the ground and that it and the information/courses/distances and property description shown actually exist, and that all monuments shown hereon actually exist, and the location and type of material thereof are correctly shown, and that the property is NOT located in a 100 Year Flood Plain or in an identified flood prone area* as defined by the U.S. Department of Housing and Urban Development/Community Panel Number - 3710764400 J, dated June 18, 2007 pursuant to the Flood Insurance Rate Map not printed, as amended, unless otherwise shown on accompanying map.

Executed this 5th day of November, 2015.
Registration No. L-2731
Burgh & Wade
201 Eugene Court
Greensboro, NC 27401

11/6/2015
Date of Last Revision

NORTH CAROLINA PROFESSIONAL SEAL L-2731 LICENSED SURVEYOR ROBERT B. WADE

BWA
Burgh, Wade and Associates, P.A.
620 Eugene Court, Suite 100, Greensboro, NC 27401-2711
PO Box 21402 Greensboro, NC 27420-1402
Phone 336-275-0470 Fax 336-275-2719
Web www.burghwade.com
N.C. License #: C-0848

SEALS:

PROJECT:

PROPERTY SURVEY FOR: GUILFORD COUNTY

201 N. EUGENE STREET
MOREHEAD TOWNSHIP, GUILFORD COUNTY
GREENSBORO, NORTH CAROLINA

OWNER/DEVELOPER:

GUILFORD COUNTY
PO BOX 3427
GREENSBORO, NC 27402
PHONE: (336) 641-5940
CONTACT: ROBERT MONDGE

DRAWN BY:	TEH
DATE:	OCT. 30, 2015
REVISIONS:	NOV. 3, 2015

SHEET TITLE: SURVEY

FILE NAME: GUILFORD COUNTY_SURVEY2015

DRAWING SCALE: 1"=30'

PLAN SHEET NO.

DEMOLITION AND RENOVATION

FOR

GUILFORD COUNTY MENTAL CLINIC

EXHIBIT C

GREENSBORO

201 NORTH EUGENE STREET

Code: _____ Item: ___ ID: _____

GREENSBORO, NORTH CAROLINA

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COVER SHEET

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R1.0 ROOF PLAN AND SECTIONS

SCOPE OF WORK

IN ORDER TO ALLOW CONSTRUCTION ON THE PARKING LOT TO THE SOUTH OF THE EXISTING FACILITY, A PORTION OF THE EXISTING STRUCTURE WILL NEED TO BE DEMOLISHED AND REMOVED. IN ORDER FOR THE DEMOLITION OF THE NORTHERN END OF THE STRUCTURE TO TAKE PLACE, INTERIOR MODIFICATIONS OF EXISTING SPACES WILL BE REQUIRED. THE FACILITY PROVIDES MENTAL HEALTH TREATMENT TO GREENSBORO RESIDENTS AND WILL REMAIN OPERATIONAL, ON A 24 HOUR BASIS, FOR THE ENTIRETY OF THE PROJECT. PROTECTION FOR THE PATIENT, STAFF AND FACILITIES TO REMAIN IS CRITICAL.

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VICINITY MAP

LOCATION MAP
NO SCALE

Issued For:

SEAL

Date:

Set No:

EXHIBIT C

2012 APPENDIX B - BUILDING CODE SUMMARY
FOR ALL COMMERCIAL PROJECTS

Project: GUILFORD COUNTY MENTAL HEALTH CLINIC
Address: 201 E. FLOYD STREET — Zip Code: 27401-2616
Proposed Use: NO CHANGE (MENTAL HEALTH CLINIC)
Owner's Authorized Agent: RUTH SHIBLEY — Phone #: 336.373.2330 — E-Mail: ruth.shibley@guilfordcounty.gov
Owned By: ☒ City/County ☐ Private ☐ State
Code Enforcement Jurisdiction: ☒ City GREENSBORO ☐ County GUILFORD ☐ State

LEAD DESIGN PROFESSIONAL: SKA CONSULTING ENGINEERS

Discipline	Firm	Name	Telephone	E-mail
Architectural				
Civil				
Electrical	SKA	THOMAS D. MUSE	336.393.0900	tmuse@skaeng.com
Fire Alarm				
Plumbing	SKA	STEPHEN MOORE P.E.	336.393.0900	smoore@skaeng.com
Mechanical	SKA	STEPHEN MOORE P.E.	336.393.0900	smoore@skaeng.com
Sprinkler, Standpipe				
Structural	SKA	AARON DOPP	336.393.0900	adopp@skaeng.com
Retaining Walls >5' High				
Other	SKA	AARON DOPP	336.393.0900	adopp@skaeng.com

2012 EDITION OF NC CODE FOR: ☐ New Construction ☐ Addition ☐ Upfit
EXISTING: ☐ Recommissioning ☐ Alteration Level: ☐ Repair ☐ Relocation
CONSTRUCTED: ORIGINAL USE(s): PROPOSED USE(s):
RENOVATED: 2000 CURRENT USE(s): NO CHANGE (MENTAL HEALTH CLINIC)

BASIC BUILDING DATA
Construction Type: ☐ I-A ☐ II-A ☐ III-A ☐ IV ☐ V-A ☐ I-B ☐ II-B ☐ III-B ☐ V-B
Mixed Construction: ☒ No ☐ Yes Types
Sprinklers: ☐ No ☐ Partial ☒ Yes ☐ NFPA 13 ☐ NFPA 13R ☐ NFPA 13D
Standpipes: ☒ No ☐ Yes Class ☐ I ☐ II ☐ III ☐ Wet ☐ Dry
Fire Districts: ☐ No ☒ Yes Flood Hazard Area: ☒ No ☐ Yes
Building Height: Feet 20' 0" Number Of Stories 1
Mezzanine: ☒ No ☐ Yes
Gross Building Area: 51,230 — EXISTING (SQ FT) — NEW (SQ FT) — SUB-TOTAL
4th Floor
3rd Floor
2nd Floor
1st Floor
Basement
1st Floor — EXISTING OFFICE IN A RESIDENCE IN BUILDING LOCATION
Basement
TOTAL — EXISTING — NO CHANGE TO BUILDING FOOTPRINT

ALLOWABLE AREA

Primary Occupancy: Assembly ☒ Business ☐ Educational ☐ Factory ☐ Hazardous ☐ Institutional ☐ Mercantile ☐ Residential ☐ Storage ☐ Utility & Miscellaneous
☐ A-1 ☐ A-2 ☐ A-3 ☐ A-4 ☐ A-5
☐ F-1 Moderate ☐ F-2 Low
☐ H-1 Detonation ☐ H-2 Deflagration ☐ H-3 Combustion ☐ H-4 Health ☐ H-5 HPM
☐ I-1 ☐ I-2 ☐ I-3 ☐ I-4
☐ I-3 Condition 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5
☐ M-1 ☐ M-2 ☐ M-3 ☐ M-4
☐ R-1 ☐ R-2 ☐ R-3 ☐ R-4
☐ S-1 Moderate ☐ S-2 Low ☐ High pile
☐ Open ☐ Enclosed ☐ Repair Garage

Accessory Occupancy: Assembly ☐ Business ☐ Educational ☐ Factory ☐ Hazardous ☐ Institutional ☐ Mercantile ☐ Residential ☐ Storage ☐ Utility & Miscellaneous
☐ A-1 ☐ A-2 ☐ A-3 ☐ A-4 ☐ A-5
☐ F-1 Moderate ☐ F-2 Low
☐ H-1 Detonation ☐ H-2 Deflagration ☐ H-3 Combustion ☐ H-4 Health ☐ H-5 HPM
☐ I-1 ☐ I-2 ☐ I-3 ☐ I-4
☐ I-3 Condition 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5
☐ M-1 ☐ M-2 ☐ M-3 ☐ M-4
☐ R-1 ☐ R-2 ☐ R-3 ☐ R-4
☐ S-1 Moderate ☐ S-2 Low ☐ High pile
☐ Parking Garage ☐ Open ☐ Enclosed ☐ Repair Garage

Incidental Use (Table 508.2.5):
☐ Furnace room where any piece of equipment is over 400,000 Btu per hour input
☐ Boiler with boiler where the largest piece of equipment is over 15 psi and 10 horsepower
☐ Refrigeration machine room
☐ Hydrogen cut-off rooms, not classified as Group H
☐ Incinerator room
☐ Paint shops, not classified as Group H, located in occupancies other than Group F
☐ Laboratories and vocational shops, not classified as Group H, located in a Group E or I-2 occupancy
☐ Laundry rooms over 100 square feet
☐ Group I-3 cells equipped with padded surfaces
☐ Group I-2 nurse call image collection rooms
☐ Waste and linen collection rooms over 100 square feet
☐ Stationary storage battery systems having a liquid electrolyte capacity of more than 50 gallons, or a battery capacity of 1,000 pounds used for facility standby power, emergency power or uninterrupted power supplies
☐ Room containing fire pumps
☐ Group I-2 storage rooms over 100 square feet
☐ Group I-2 commercial kitchens
☐ Group I-2 laundries equal to or less than 100 square feet
☐ Group I-2 rooms or spaces that contain fuel-fired heating equipment

Special Uses: ☐ H2 ☐ H3 ☐ H4 ☐ H5 ☐ Q0 ☐ Q1 ☐ Q2 ☐ Q3 ☐ Q4 ☐ Q5 ☐ Q6 ☐ Q7 ☐ Q8 ☐ Q9 ☐ Q10 ☐ Q11 ☐ Q12 ☐ Q13 ☐ Q14 ☐ Q15 ☐ Q16 ☐ Q17 ☐ Q18 ☐ Q19 ☐ Q20 ☐ Q21 ☐ Q22 ☐ Q23 ☐ Q24 ☐ Q25 ☐ Q26 ☐ Q27
Special Provisions: ☐ S01 ☐ S02 ☐ S03 ☐ S04 ☐ S05 ☐ S06 ☐ S07 ☐ S08 ☐ S09 ☐ S10
Mixed Occupancy: ☐ No ☐ Yes Separation ____ hr Exception ____

☐ Incidental Use Separations (508.2)
This separation is not required in a Non-Separated Use (see exceptions)
☐ Non-Separated Use (508.3)
The required type of construction for this building shall be determined by applying the height and area limitations for each of the applicable occupancies for the entire building. The most restrictive type of construction, as determined, shall apply to the entire building.
☐ Separated Use (508.4) - See below for area calculations
For each story, the area of the occupancy shall be such that the sum of the ratios of the actual floor area of each use divided by the allowable floor area for each use shall not exceed 1

$$\frac{\text{Actual Area Of Occupancy A}}{\text{Allowable Area Of Occupancy A}} + \frac{\text{Actual Area Of Occupancy B}}{\text{Allowable Area Of Occupancy B}} \leq 1.00$$

Story	Description	Allowable Area	Increase for Sprinkles	Increase for Frontage	Total Allowable Area	Actual Area	Remarks

EXISTING PROJECT IN PROGRESS (INCLUDING FUTURE)
1. Frontage area increase from section 506.3 are computed thus:
a. Perimeter versus Perimeter public ways or open space having 20 feet minimum width = ____ (%)
b. Total Building Perimeter = ____ (P)
c. Ratio (F/P) = ____ (F/P)
d. W = Minimum width of public way = ____ (W)
e. Percent of Frontage increase Is = 100 [W/F - 0.25] = W/50 = ____ (%)
2. The tabulated area per story in Sec. 506.2 is as follows:
a. Basic area building, S = 100 percent
b. Single story building, L = 300 percent
3. Mixed use occupancies under provisions of Section 508
4. Maximum Building Area = total number of floors in the building x 21,504.0
5. The maximum area of open parking garages that comply with Table 406.3.1. The minimum area of traffic control floors must comply with Table 403.1.2

ALLOWABLE HEIGHT

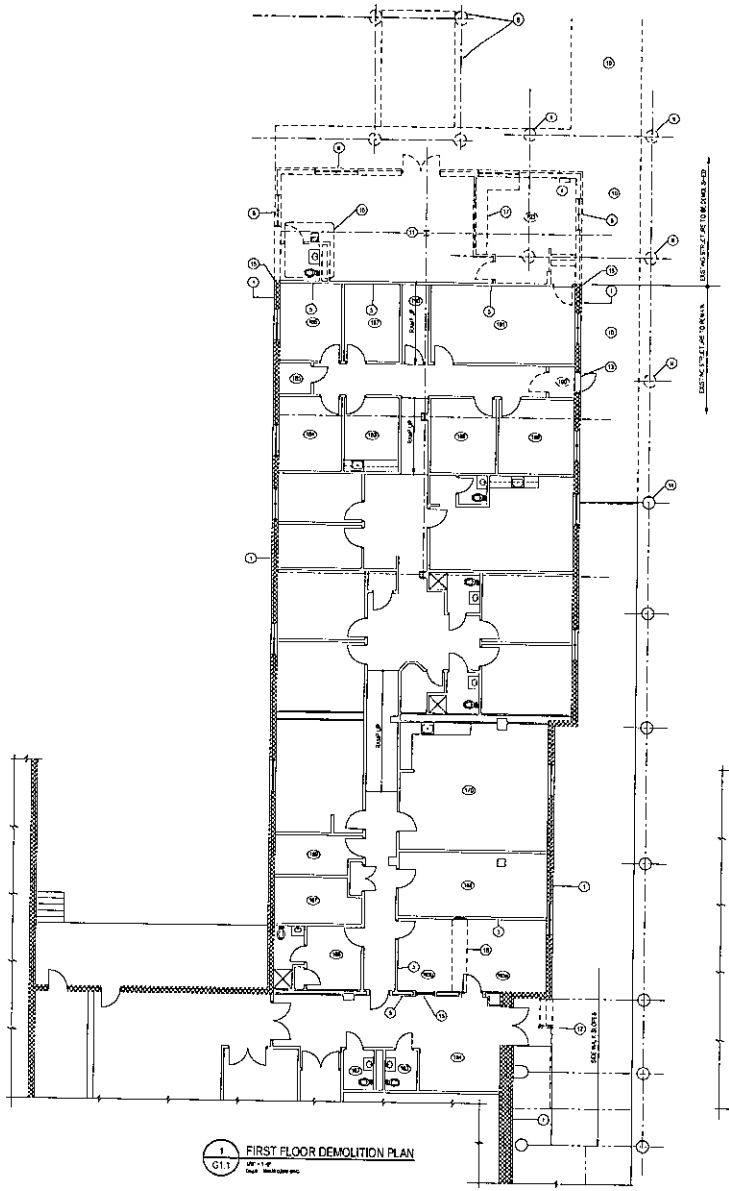
Story Level	Allowable Per Code	Increase Per Sprinkles	Allowable Per Frontage	Total Allowable Height	Actual Height	Remarks
Building Height in Feet						
Building Height in Stories						

EXISTING N/A

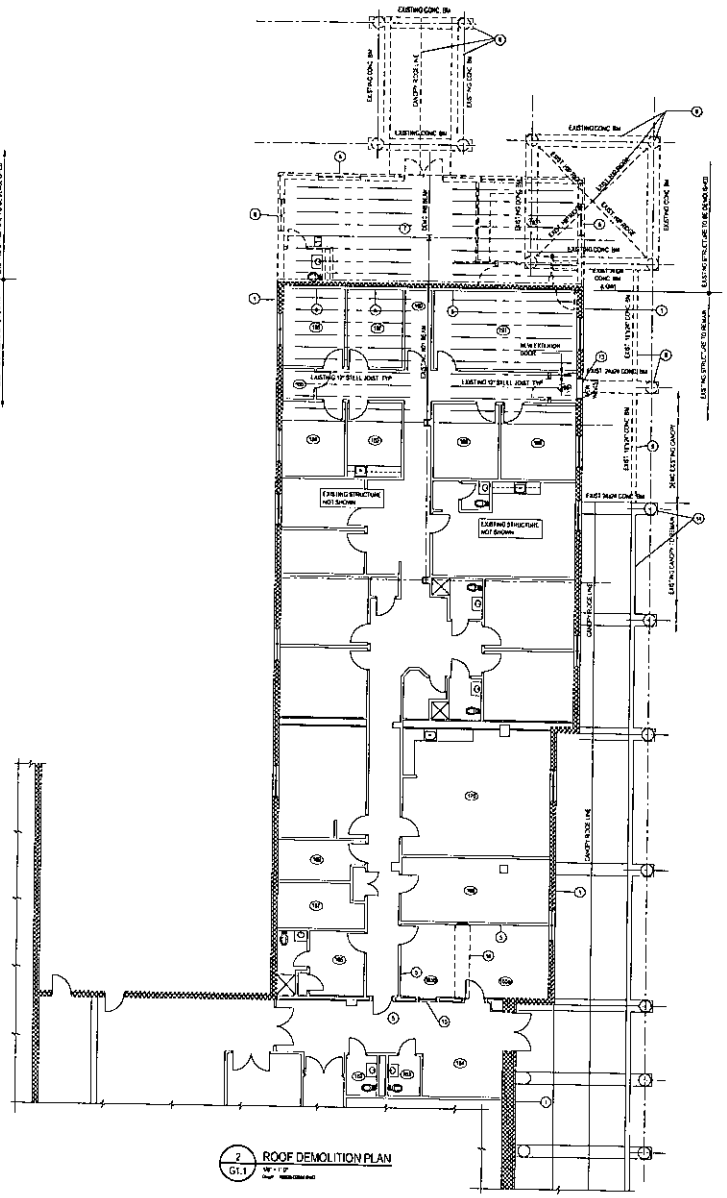
FIRE PROTECTION REQUIREMENTS

	Occupancy Separation	Fire Barrier	Horizontal Assembly	Tenant Separation	Incidental Use Separation	Exterior Walls	Exterior Openings	Exterior Openings Protection	Structural Frame	Bearing Walls	Nonbearing Walls	Floor Construction	Roof Construction

EXHIBIT C



1 G1.1 FIRST FLOOR DEMOLITION PLAN



2 G1.1 ROOF DEMOLITION PLAN

DEMOLITION PLAN KEY NOTES

KEYNOTE	DESCRIPTION
1	EXISTING MASONRY WALL AND FOUNDATION TO REMAIN
2	REMOVE ENTIRE MASONRY WALL AND FOUNDATION AS SHOWN. DAMAGE TO REMAIN AND SHALL BE PROTECTED UNLESS NOTED OTHERWISE
3	EXISTING COLUMN AND FOUNDATION TO REMAIN
4	EXISTING FIRE ALARM PANEL TO BE RELOCATED. SEE OTHER DRAWINGS
5	EXISTING METAL STILE WALL TO REMAIN AND BE PROTECTED
6	EXISTING MASONRY WALL AND FOUNDATION TO BE DEMOLISHED AND REMOVED
7	EXISTING ROOF STRUCTURE TO BE DEMOLISHED AND REMOVED
8	EXISTING FRONT CANOPY STRUCTURE (COLUMNS, ROOF, FOUNDATIONS) TO BE DEMOLISHED AND REMOVED
9	EXISTING SIDE CANOPY STRUCTURE (COLUMNS, ROOF, FOUNDATIONS) TO BE DEMOLISHED AND REMOVED
10	EXISTING SIDEWALK TO BE DEMOLISHED AND REMOVED
11	EXISTING SLAB ON GRADE TO BE DEMOLISHED AND REMOVED. SAWCUT AS REQUIRED TO PROTECT SLAB ON GRADE TO REMAIN
12	EXISTING EXTERIOR STAIRS AND RAMP TO BE DEMOLISHED AND REMOVED
13	NEW DOOR OPENING TO BE CUT INTO EXISTING MASONRY WALL
14	EXISTING SIDE CANOPY STRUCTURE TO REMAIN
15	IF REQUIRED TO PROVIDE A CLEAN JOINT, SAWCUT MASONRY WALL VERTICALLY PRIOR TO DEMOLISHING
16	EXISTING BATHROOM TO BE DEMOLISHED AND REMOVED. REFER TO OTHER DRAWINGS FOR UTILITY MODIFICATIONS
17	EXISTING EQUIPMENT AND DUCT TO BE REMOVED. COORDINATE WITH OWNER WHAT EQUIPMENT IS TO BE RE-INSTALLED AND FURNISHED TO OWNER AND WHAT EQUIPMENT IS TO BE REMOVED AND DISCARDED
18	REMOVE, REWORK AND REPAIR EXISTING CEILING TILE AND CLEANING TRUCK AS REQUIRED TO INSTALL NEW METAL STUD AND DRYWALL

DEMOLITION PLAN NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL UTILITY SERVICES THAT REQUIRE TEMPORARY OR PERMANENT TERMINATION PRIOR TO COMMENCEMENT OF WORK.
2. PLAN, NOTES, ETC. SHOW GENERAL DEMOLITION SCOPE. FOR SPECIFIC LOCATIONS WHERE EXISTING CONSTRUCTION REMAINS, CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AS NECESSARY AND PROJECT ITEMS TO REMAIN.
3. ALL DIMENSIONS AND EXISTING ELEMENTS SHOWN WERE TAKEN FROM A CURSORY FIELD REVIEW. CONTRACTOR SHALL REVIEW WITH ALL DIMENSIONS AND EXISTING CONDITIONS AND REPORT ANY DISCREPANCIES TO THE DESIGNER BEFORE PROCEEDING WITH ANY AFFECTED WORK.
4. EXTENT OF DEMOLITION SHOWN REPRESENTS BEST OF DEMOLITION. ACTUAL SCOPE OF DEMOLITION SHALL INCLUDE ALL ELEMENTS SHOWN ON THE DEMOLITION PLAN AND THOSE OTHERWISE REQUIRED TO COMPLETELY REMOVE THE EXISTING CONSTRUCTION.
5. CARE SHALL BE GIVEN DURING DEMOLITION NOT TO DAMAGE EXISTING COMPONENTS OUTSIDE THE SCOPE OF DEMOLITION. REMEDIAL WORK REQUIRED TO REPAIR DAMAGED ELEMENTS THAT ARE DAMAGED BEYOND DUALITION THAT ARE NOT TO BE DEMOLISHED SHALL BE PERFORMED AT NO COST TO THE OWNER.
6. ALL LOCATIONS WHERE EXISTING FRAMING IS TO BE REMOVED, DO NOT CUT OUT. DEMOLITION SHALL EXTEND ONLY TO THE LIMITS OF THE AREA TO BE DEMOLISHED.
7. THE CONTRACTOR SHALL NOT REMOVE SECTIONS OF STRUCTURAL ELEMENTS THAT ARE SUPPORTING ELEMENTS TO REMAIN IN PLACE WITHOUT THE WRITTEN APPROVAL OF THE DESIGNER. THE DESIGNER HAS SHALL BE NOTIFIED IN WRITING IF SUCH A CONDITION IS ENCOUNTERED DURING WORK.
8. DEMOLISH AND REMOVE ALL STRUCTURE, FINISHES, FIXTURES, UTILITIES, ETC. IN AREAS SHOWN TO BE DEMOLISHED.
9. IN THE GROUND LEVEL PLAN, THE EXISTING STRUCTURE SHALL REMAIN AS SHOWN. ADJACENT STRUCTURAL FRAMING MEMBERS SHALL BE PROTECTED DURING DEMOLITION AND CONSTRUCTION OF NEW CONCRETE FLOOR SLABS, MASONRY WALLS AND JOISTS. PROVIDE TEMPORARY WALL AND ROOF BRACING AS REQUIRED TO PERFORM THE WORK.
10. CARE SHALL BE TAKEN DURING DEMOLITION TO SELECTIVELY REMOVE STRUCTURE AND OTHER BUILDING COMPONENTS ATTACHED TO EXISTING CMU WALLS TO REMAIN, SO AS NOT TO DAMAGE SECTIONS OF WALL TO REMAIN.
11. REFER TO ELECTRICAL DRAWINGS FOR EXTENT OF REMOVAL AND REPLACEMENT OF ALL LIGHT FIXTURES AS SHOWN ON DEMO PLANS.
12. DEMOLITION SHALL BE KEPT TO A MINIMUM DISRUPTION OF EXISTING BUILDING OPERATIONS. PROVIDE DUST PARTITIONS AND SAFETY BARRIERS TO PROTECT EXISTING FINISHES AND AREAS AWAY FROM CONSTRUCTION DUST AND NOISE. PARTICIPATE WITH PLANNING AND COORDINATE WITH OWNER AND ARCHITECT PRIOR TO START OF DEMOLITION TO ENSURE AREAS ARE ADEQUATELY ENCLOSED AND SEPARATED.
13. CONTRACTOR SHALL REMOVE ALL ANCHORS, FASTENERS, REINFORCING AND OTHER ASSOCIATED WORK RELATED TO REPAIRS DEMOLITION NOTES IN ITEMS PRIOR TO WORK. TO REMAIN IN SURFACES TO BE COVERED, ITEMS MAY BE CUT OFF FLUSH WITH EXISTING SURFACE. OTHERWISE, ITEMS MUST BE COMPLETELY REMOVED AND SURFACE REPAIRED TO MATCH AROUND REMOVAL.
14. CONTRACTOR SHALL PROVIDE ADDITIONAL REMOVAL OF EXISTING CONSTRUCTION TO ACCOMMODATE NEW CONSTRUCTION AS REQUIRED.
15. THE DEMOLITION WORK INCLUDES ALL THE WORK REQUIRED TO PREPARE SURFACES TO RECEIVE NEW FINISHES.
16. PATCH FILL ALL ABANDONED OPENINGS, DAMAGED SURFACES AND OPENINGS FOR PIPES THAT HAVE TO REMAIN THAT ARE NOT RIGHT TO THE PIPE OR CONDUIT. PROVIDE SMOOTH, SLEEK AND PREPARE TO RECEIVE NEW FINISHES.

PRELIMINARY FOR BIDDING ONLY

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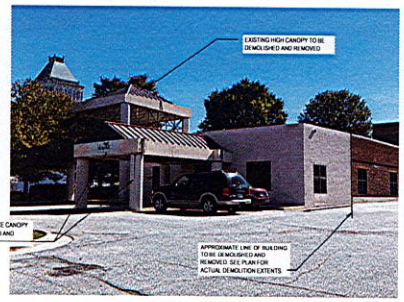
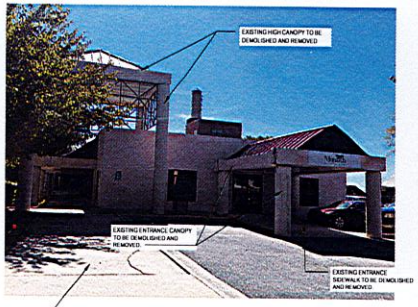
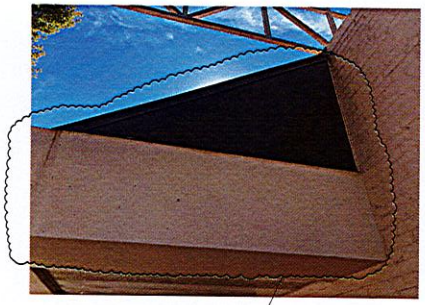
QUALITY INTEGRITY SOLUTIONS

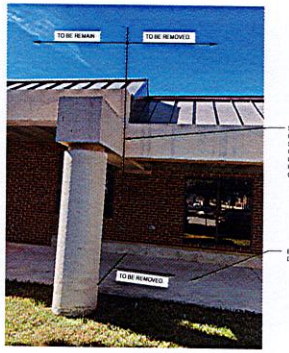
DEMOLITION AND RENOVATION FOR
GUILFORD COUNTY MENTAL CLINIC
DEMOLITION PLAN

G1.1









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Project Number 10-L-0
File Name 10L0-G0.rvt
Plotted 12/13/2010 1:12 PM

NORTH CAROLINA PROFESSIONAL SEAL 20324 ENGINEER

No.	Date	Description

DEMOLITION AND RENOVATION
FOR
GUILFORD COUNTY MENTAL CLINIC
GREENSBORO, NORTH CAROLINA
201 N. EUGENE STREET

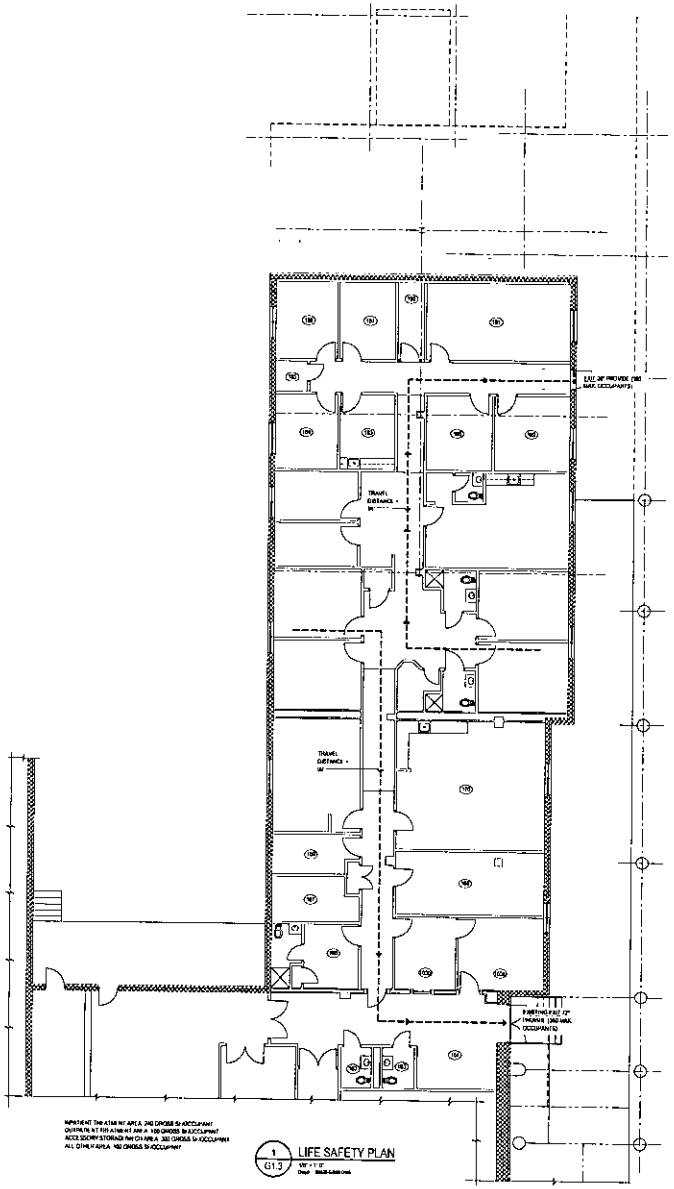
DEMOLITION PHOTO

Designed By: ASH
Drawn By: WLW
Checked By: ASH
Date: -

G1.2

PRELIMINARY BIDDING ONLY

EXHIBIT C



1 / G1.3 LIFE SAFETY PLAN

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PRELIMINARY BIDDING ONLY

DEMOLITION AND RENOVATION FOR

GUILFORD COUNTY MENTAL CLINIC

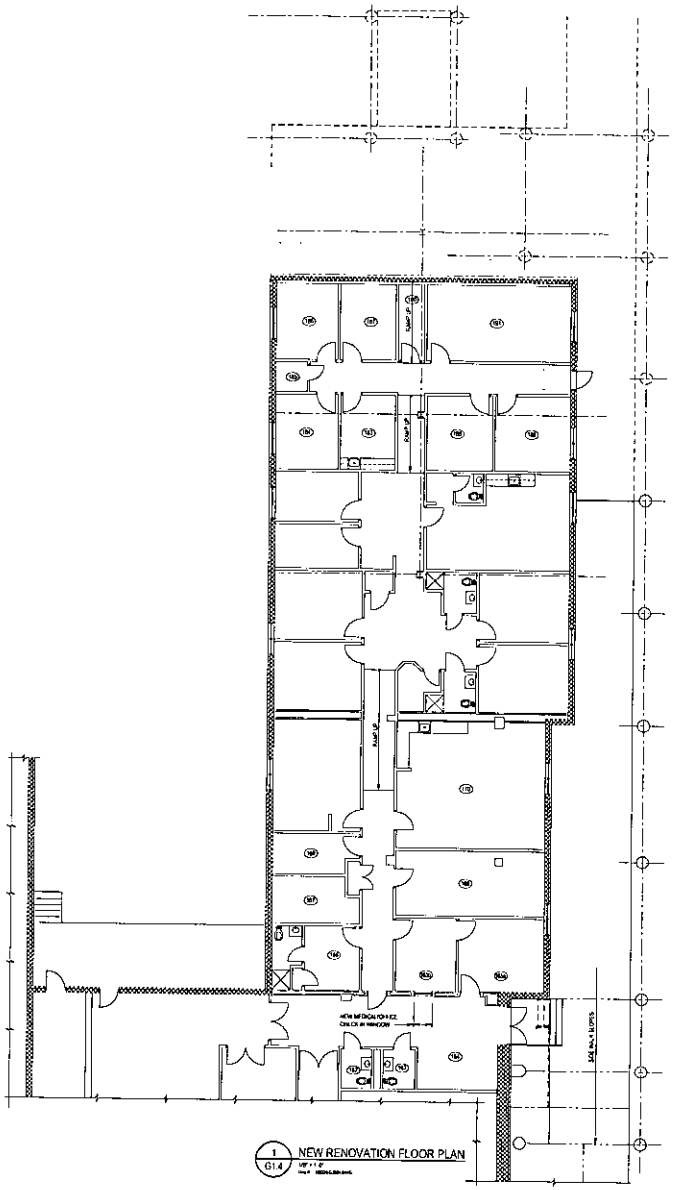
OPEN BIDDING NORTH CAROLINA

2211 EASTCHESTER

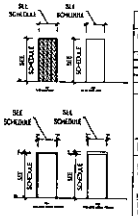
LIFE SAFETY PLAN

Designed By: AJM
Drawn By: MR
Checked By: MM
Date:

G1.3



1 / G1.4 NEW RENOVATION FLOOR PLAN
1/8" = 1'-0"



DOOR SCHEDULE

DOOR NO.	DOOR SIZE WIDTH	DOOR SIZE HEIGHT	DOOR SIZE THICK.	FRAME MATL	FRAME MATL	DOOR ELEV.	DOOR MATL	DOOR ELEV.	DETAILS HEAD	DETAILS JAMB	DETAILS SILL	FIRE RATING	HARDWARE	REMARKS
SHA	Feet	Feet	Feet	Mat		Elev	Mat'l	Elev						
101A	3'-0"	7'-0"	1 3/4"	HM		101	WD	101	–	–	–	–	HW101	1, 2
102	3'-0"	7'-0"	1 3/4"	HM		102	WD	102	–	–	–	–	HW102	1
104	3'-0"	7'-0"	1 3/4"	HM		104	WD	104	–	–	–	–	HW104	1
104A	3'-0"	7'-0"	1 3/4"	HM		104A	WD	104A	–	–	–	–	HW104A	–

KEYED HARDWARE

1. ACCESS CONTROL LOCATION COORDINATE WITH HARDWARE SUPPLIER AND ELECTRICAL CONTRACTOR. CONTRACTOR, ACCESS CONTROL SYSTEM IS OWNER - PROVIDED
2. EXISTING DOOR, REFINISH DOOR TO MATCH EXISTING.

GLASS NOTE(S)

(G) 1/4" CLEAR, TEMPERED GLASS
NOTE: ALL GLASS TO BE TYPE A UNLESS OTHERWISE NOTED.

DOOR HARDWARE SCHEDULE

SET#1 (EXISTING DOOR & FRAME TO REMAIN)
- REPLACE EXISTING LOCKSET & STRIKE WITH NEW LIVE BOLT & ELECTRIC STRIKE TO COORDINATE WITH OWNER'S ACCESS CONTROL SYSTEM. ACCESS CONTROL INSTALLED BY OWNER, refer to electrical drawings for power requirements.

HINGES
(3) HINGES
(1) CYLINDER LOCKSET WITH LEVER TRIM
(1) CLOSER
(1) WALL STOP
SILENCERS

SET#2
(2) HINGES
(1) CYLINDRICAL LOCKSET WITH LEVER TRIM - STORAGE FUNCTION
(1) WALL STOP
(3) CLOSER
SILENCERS

SET#3
(3) HINGES (WIPE)
(1) ALARMED EXIT DEVICE WITH DUMMY HANDTRAIL ON EXTERIOR
(1) CLOSER WITH OVERHEAD STOP FUNCTION
(2) THRESHOLD
(1) DOOR BOTTOM
(2) SILENCERS

HARDWARE SPECIFICATIONs

HINGES
BASE-OF DESIGN: IVES MB1SSLS
PROVIDE: BASE-OF DESIGN PRODUCT OR EQUAL BY BOMMER OR STANLEY.
FINISH USING ON STEEL

CYLINDRICAL LOCK SETS
BASE-OF DESIGN: SCHLAGE ND SERIES (Ally)
PROVIDE: BASE-OF DESIGN PRODUCT OR EQUAL BY CORBIN OR BEST.
FINISH USING ON BRASS OR BRONZE

DOOR CLOSERS
BASE-OF DESIGN: LCN 4010 SERIES
PROVIDE: BASE-OF DESIGN PRODUCT OR EQUAL BY SARGENT OR CORBIN
FINISH MANUFACTURER'S STANDARD TO MATCH OTHER HARDWARE.

WALL STOPS
BASE-OF DESIGN: IVES WS406/CCU
PROVIDE: BASE-OF DESIGN OR EQUAL BY RIMCO OR DOOR CONTROLS
FINISH USING ON STAINLESS STEEL

SILENCERS
BASE-OF DESIGN: IVES SR64
PROVIDE: BASE-OF DESIGN OR EQUAL BY STEELCRAFT OR DON-JO
PROVIDE: (3) SILENCERS PER HOLLOW METAL SINGLE DOOR, (2) PER HOLLOW METAL DOUBLE DOOR HEAD

FIRE OR VCT
BASE-OF DESIGN: VON DUPRIN 99NL SERIES
PROVIDE: BASE-OF DESIGN OR EQUAL BY REESE OR PRECISION

DOOR & HARDWARE NOTES

1. ALL HARDWARE MATERIALS MUST BE WARRANTED AGAINST DEFECTS IN WORKMANSHIP AND MATERIALS FOR A PERIOD OF (1) YEAR FROM DATE OF SUBSTANTIAL COMPLETION OF THE PROJECT, UNLESS OTHERWISE NOTED. SPECIAL WARRANTIES SHALL BE EACH MANUFACTURER'S STANDARD WRITTEN WARRANTY.
   - SPECIAL WARRANTY DOOR CLOSERS (10) YEAR PERIOD
2. COORDINATE KEYING WITH OWNER, MASTER KEY OR GRAND MASTER KEY CYLINDERS. SUBMIT PROPOSED KEYING SCHEDULE FOR REVIEW BY ARCHITECT AND OWNER.

GENERAL PARTITION NOTES

1. PROVIDE FIRE RETARDANT WOOD BLOCKING IN THE EN METAL STUDS TO REINFORCE GWB FOR THE FOLLOWING LOCATIONS ON FLOOR PLAN AND FLR CHART COORDINATION:
   1.1 BEHIND ALL DOORS RECEIVING WALL MOUNTED DOOR STOPS (INCLUDED AS BRINGING AGAINST ADJACENT WALLS)
   1.2 ALONG PARTITIONS SCHEDULED FOR CLOSET, WALL HANG CABINETS, SHELVING, TOILET ACCESSORIES, ETC. VERIFY LOCATIONS OF ALL ACCESSORIES WITH OWNER AND ARCHITECT PRIOR TO CONSTRUCTION
2. PROVIDE FRAMES OR KNOCKS AT ALL SUPPLY AND RETURN DUCT AIR PARTITION PLAN DIMENSIONS. REFER TO MECHANICAL DRAWINGS FOR SIZE AND LOCATIONS OF OPENINGS
3. PROVIDE DRAFT METAL STUDS IN ALL DRYWALL PARTITIONS AT DOOR HEADS AND CONDITIONS AND CORNER LOCATIONS
4. PROVIDE SOUND TOP TRACK AT ALL PARTITIONS WHICH STOP IN THE CEILING AND STRUCTURE ABOVE, AS A FIRE BLOCK FOR CRAWL. ALL PENETRATIONS OVER SHALL TERMINATE AT TOP TRACK

FINISH SCHEDULE

ROOM NO.	ROOM NAME	FLOOR	BASE	WALLS NORTH	WALLS SOUTH	WALLS EAST	WALLS WEST	WALLS CEILING	MILLWORK/TRIM VERTICAL	MILLWORK/TRIM HORIZONTAL	CEILING HT	REMARKS
100	LOBBY	FBT	FBT	CMU/P	CMU/P	CMU/P	CMU/P	FBT	–	–	EXIST	2, 3
101A	SHARE	VCT	RB	CMU/P	CMU/P	CMU/P	CMU/P	ACT	–	–	EXIST	2, 3
104A	OFFICE	CPT	RB	CMU/P	CMU/P	CMU/P	CMU/P	ACT	–	–	EXIST	2, 3
110	STORAGE	VCT	RB	GYP/P	GYP/P	CMU/P	CMU/P	ACT	–	–	9'-0"	2, 3
113	CORRIDOR	FBT/VCT	FBT/RB	GYP/P	CMU/P	CMU/P	CMU/P	FBT/ACT	–	–	EXIST	2, 3

FINISH SCHEDULE REMARKS & NOTES

REMARKS
1. MATCH EXISTING CEILING HEIGHT FOR REPAIRS.
2. FOR ROOMS AFFECTED BY PARTIAL RENOVATION, PAINT ALL WALLS TO MATCH EXISTING.
3. PROVIDE NEW VCT AND RB TO MATCH EXISTING IN THIS STORAGE ROOM IN REQ'D.
4. NEW WINDOW FRAME SHALL BE PRIMED TO MATCH DOOR FRAME B.

GENERAL NOTES
1. PAINT NEW FRAME DOOR FRAMES TO MATCH EXISTING.
2. PAINT ALL NEW EXTERIOR STEEL AND WOOD.

FINISH LEGEND

VCT: VINYL COMPOSITION TILE
MATCH EXISTING

CPT: CARPET
MATCH EXISTING

RB: RESILIENT BASE
MATCH EXISTING

GYP: GYPSUM WALL BOARD
PREPARE TO BE READY FOR LEVEL 4 FINISH MINIMUM

P: PAINT
COLOR AND SHEEN TO MATCH EXISTING
PROVIDE (1) PRIMER COAT AND (1) FINISH COATS

ACT: ACOUSTICAL CEILING TILE
PER ACOUSTICAL TILE SPEC TO MATCH EXISTING

EXHIBIT C

SKA CONSULTING ENGINEERS
GREENSBORO, NC
HIGH POINT, NC
ASHEVILLE, NC
CHARLESTON, SC
CHARLOTTE, NC
CHARLOTTESVILLE, VA
WILMINGTON, NC

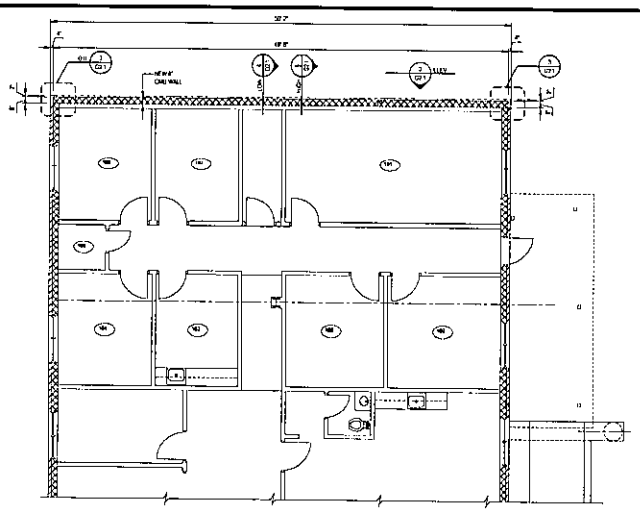
QUALITY INTEGRITY SERVICE

PRELIMINARY BIDDING ONLY

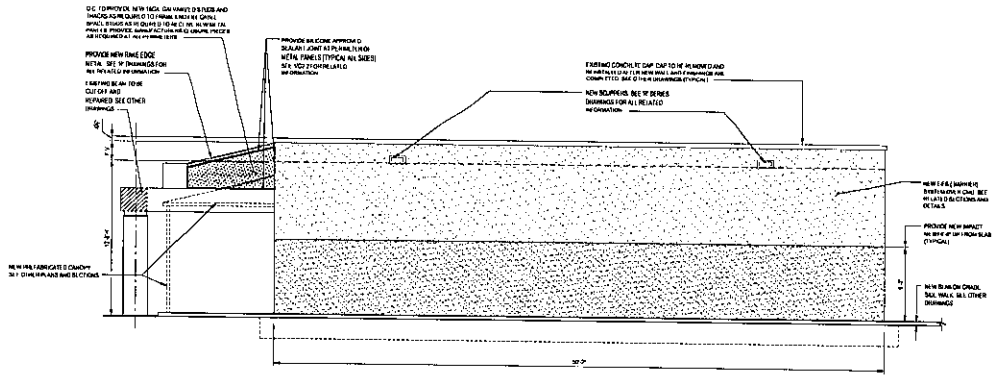
DEMOLITION & RENOVATION
GUILFORD COUNTY MENTAL CLINIC
NEW RENOVATE FLOOR PLAN

G1.4

EXHIBIT C



1 G2.1 PARTIAL PLAN - (EIFS CLADDING)

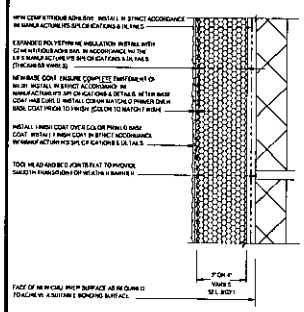


2 G2.1 PARTIAL END WALL ELEVATION - (EIFS AND METAL PANEL)

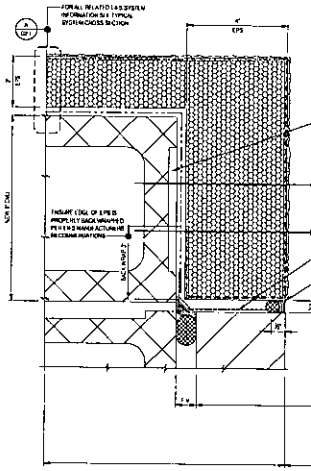
GENERAL NOTES (EIFS)

THE SCOPE OF WORK IN GENERAL IS TO INSTALL A NEW EXTERIOR INSULATION AND FINISH SYSTEM (EIFS) ON THE EXTERIOR WALL WITH RELATED PUBLIC WORKS.

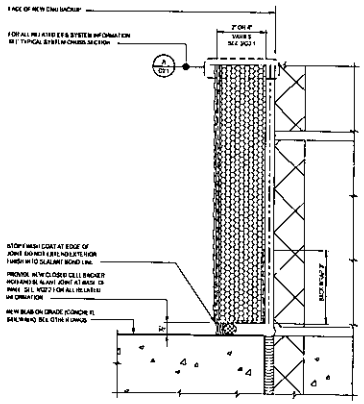
1. THE EIFS SYSTEM IS INTEGRATED AND DESIGNED AS A TYPICAL "BARRIER" EIFS AND SHALL BE DIRECT APPLIED TO THE CMU WALL WITH CEMENTITIOUS ADHESIVE.
2. ALL PRODUCTS SHALL BE FROM A SINGLE SOURCE. MANUFACTURER PLANT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE EIFS MANUFACTURER'S SPECIFICATIONS AND INSTALLATION INSTRUCTIONS.
3. APPROVED MANUFACTURERS ARE:
   a. DRYVIT
   b. STO CORP
   c. PAREX
5. ALL PRODUCT SYSTEMS SHALL BE PER PROPER UL REQUIREMENTS TO MEET:
   a. FLAME SPREAD OF INSULATION BOARD AND FINISH COATS 25 OR LESS WHICH TESTED HORIZONTALLY PER ASTM E84
   b. SMOKE DEVELOPED OF INSULATION BOARD AND FINISH COATS 415 OR LESS WHEN TESTED HORIZONTALLY PER ASTM E84
6. OWNER SHALL APPROVE ALL COLOR SAMPLE TEXTURE AND COLOR PRIOR TO INSTALLATION. ALL WALL-UP SAMPLES SHALL BE SUBMITTED WITH MINIMUM 24"x12" BOARD WITH A TEXTURE AND COLOR
7. ALL PRODUCTS MUST BE INSTALLED WHEN TEMPERATURES ARE ABOVE 40 DEGREES AND RISING. PRODUCTS INSTALLED BELOW THESE TEMPERATURES ARE NOT IN ACCORDANCE WITH THE MANUFACTURER'S GUARANTEE AND ARE SUBJECTED TO REJECTION AND REMOVAL FROM THE PROJECT.
8. ENSURE ALL MATERIALS ARE PROPERLY STORED ON SITE. IF FOUND DAMAGED OR NOT FROM SUPPLIER, THEY WILL BE REJECTED.
9. ONE FIELD ADHESION TESTS SHOULD BE PERFORMED BY THE MANUFACTURER. THE MANUFACTURER MUST PROVIDE FIELD AND VISITS WITH FIELD REPORTS SUBMITTED TO THE OWNER. ANY DEFICIENCIES NOTED BY THE MANUFACTURER MUST BE CORRECTED. THE MANUFACTURER MUST VISIT THE SITE TO PERFORM FINAL WARRANTY INSPECTION.
10. CONTRACTOR MUST PROVIDE 5-2 YEAR WORKMANSHIP WARRANTY ON THE INSTALLATION AND WATER TIGHT INTEGRITY.
11. MANUFACTURE MUST PROVIDE 10 YEAR MATERIAL WARRANTY ON THE MATERIALS REGARDING DEFECTIVE MATERIALS REPLACEMENT.
12. EPS INSULATION SHALL BE A MINIMUM OF 1 1/2" (38MM) - WOOD CLOSED CELL FOAM
13. ENSURE ALL WINDOW PROFILE FLASHINGS ARE PROPERLY INSTALLED TO PREVENT WATER FROM ENTERING THE SYSTEM. ALL FLASHING AS NOTED ON THE CONSTRUCTION DOCUMENTS.
14. ALL BASE COAT SHALL BE STANDARD COMMERCIAL BASE COAT. THE INSTALL MESH (MESH) IN A MINIMUM OF 1/16" (1MM) AND AT NO POINT (MESH) THE MESH SHALL BE A MINIMUM (MESH).
15. ENSURE THAT ALL AN REINFORCING MESH IS STANDARD WEIGHT MESH (IN THE FIELD OF THE WALL) WITH OR FAILMESH AT ALL BACKWRAPPING GUIDE FOR REINFORCING THE (PN). THE LOWER SECTION OF THE WALL SHALL BE DONE WITH ANY IMPACT MESH (1MM) OR HIGH IMPACT MESH SURFACE. THIS MESH IS IN ADDITION TO THE STANDARD MESH BASE COAT.
16. PRIMER MUST BE INSTALLED AND SHALL BE COLOR MATCHED TO THE APPROVED FINISH COAT.
17. FINISH SHALL BE STANDARD ACRYLIC (TEXTURE AND COLOR BY OWNER APPROVAL).
18. ENSURE ALL BACK WRAPPING HAS THE EDGE FULLY ENABLED TO ENSURE A PROPER BONDING SURFACE OF THE NEW SEALANT INSTALLATION.
19. ENSURE MESH WAS INSTALLED INTO THE SEALANT BEFORE BASE COAT (TYPICAL).



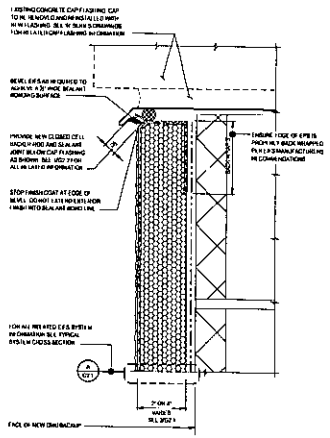
A G2.1 NEW BARRIER EIFS - TYPICAL SYSTEM CROSS SECTION



3 G2.1 PLAN DETAIL



4A G2.1 4 G2.1 SECTION - BASE OF WALL



5A G2.1 5 G2.1 SECTION - TOP OF WALL

SKA CONSULTING ENGINEERS

GUILFORD COUNTY MENTAL CLINIC

EIFS SECTIONS AND DETAILS

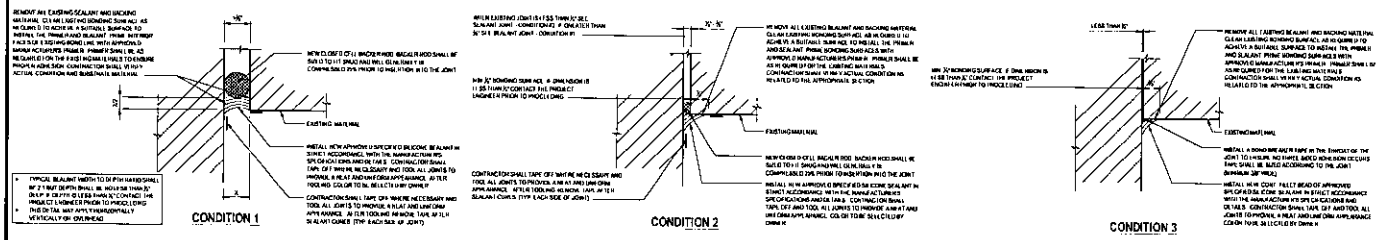
PRELIMINARY - FOR BIDDING ONLY

G2.1

METHODS AND PROCEDURES

THE INTENT OF THIS REPAIR IS TO PROVIDE A CONTINUOUS BACKING MATERIAL AND SEALANT JOINT AT LOCATIONS INDICATED ON THE PLAN (PLANS) OR DETAILS AND SECTIONS. IF SUNCONDITIONED WHEN (4.0) WHEN THE CONDITIONS WILL OCCUR ON SITE FOR THE SEALANTS, THEREFORE ALL WHEN (2) ARE SHOWN AS PART OF THIS REPAIR THE FOLLOWING METHODS, PROCEDURES AND SPECIFICATIONS SHALL APPLY TO THE REPAIR

1. REMOVE ANY EXISTING SEALANT, JOINT FILLER AND DEBRIS COMPLETELY FROM THE JOINT AND FROM THE SURFACE OF THE BONDING AREA ONE EACH SIDE OF THE JOINT AREA. CHECK FOR INSIDE DETAILS, SAMPLES AND REINFORCING STEEL WITH INADEQUATE COVER
2. CLEAN AND PREPARE THE EXISTING BONDING SURFACES AT THE SEALANT JOINT AFTER REMOVAL OF THE CHEMICAL, BREAKS AND RE FROZE WITHOUT DAMAGE TO THE SUBSTRATE. REMOVE ALL UNSOUND, LOOSE AND CONTAMINATED MATERIALS AND/OR OTHER BOND INHIBITING MATERIALS ARE REMOVED FROM THE BONDING SURFACES
3. THE CONTRACTOR SHALL COMPLY WITH THE NEW OSHA SAFETY LAWS (SUPPLIED THIS MANUAL WILL PROVIDE CONTRACTOR SAFETY GUIDELINES
4. PERFORM A FINAL CLEANING OF THE JOINT WITH LOW PRESSURE WATER AND STEAM TO PREVENT WATER LEAKS INTO THE BUILDING AND ALLOW THE SURFACE TO COMPLETELY DRY PRIOR TO INSTALLING THE NEW BACKER ROD AND SEALANT
5. AT CONDITIONS 2 AND 3, INSTALL CONTINUOUS OPEN CELL BACKER ROD IN THE JOINT. USE A GAGE TOOL TO ACCURATELY POSITION THE TOP OF THE BACKER ROD AT THE CORRECT DEPTH BELOW THE HORIZONTAL SURFACE OF THE ADJACENT CLADDING. CHECK THAT THE BACKER ROD IS SECURELY BOUND ALONG ITS FULL LENGTH. CHANGE BACKER ROD SIZE IF REQUIRED. RECHECK THE PLACEMENT OF THE BACKER ROD AGAIN UNTILL IT PROVE TO INSTALLING THE SEALANT AND MAKE ANY CORRECTIONS NECESSARY IF THE BACKING MATERIAL SLIPS OUT LOOSE ON AT THE INCORRECT DEPTH REWORK PRIOR TO PLACEMENT OF THE SEALANT
6. AT CONDITIONS 2, INSTALL CONTINUOUS BONDING MULTI TAPE IN THE THROAT OF THE JOINT ACCURATELY POSITION THE BOND BREAKER TAPE IN THE THROAT OF THE JOINT TO ENSURE A CORRECT WORKING ALONG THE BEDS OF THE FILLET (AS INDICATED IN THE DETAIL). CHECK THAT THE BONDING MULTI IS SECURELY BOUND ALONG ITS FULL LENGTH. CHANGE BOND BREAKER TAPE AS REQUIRED TO ENSURE PROPER BOND LINE. REPOSITION THE PLACEMENT OF THE BOND BREAKER TAPE AND ON FULLY PRIOR TO INSTALLING THE SEALANT AND MAKE ANY CORRECTIONS NECESSARY IF THE BOND BREAKER TAPE IS FOUND LOOSE OR INCORRECT. REWORK AS REQUIRED PRIOR TO PLACEMENT OF THE SEALANT
7. WHETHER THE NEW JOINT FILLER HAS RE MADE BELOW THE DEPTH OF THE SEALANT, IT MAY BE COVERED WITH A BOND BREAKER TAPE AND USED AS A BACKER BACKER ROD AND HOWEVER AS REQUIRED BY INSTALLED SECURELY
8. SEALANT AT TAPE OR BACKER ROD THAT BECOMES DISLODGED SHALL BE REPLACED AT NO COST TO THE OWNER
9. AFTER APPROVAL OF THE SURFACES, APPLY A PRIMER TO THE SURFACE OF THE BONDING AREA THAT WILL RECEIVE THE SEALANT
10. INSTALL A CONTINUOUS APPROVED SEALANT FOR THE FULL LENGTH OF EACH JOINT WITHIN EIGHT HOURS AFTER APPLYING THE PRIMER
11. TOOL THE SURFACE OF THE SEALANT TO ENSURE FULL CONTACT WITH THE JOINT INTERFACES. TOOL TO FORM PROPER SUBMERGED IN THE DETAIL
12. REMOVE ANY EXCESS SEALANT FORM THE SURFACE OF THE ADJACENT CLADDING
13. THE PRIMER AND SEALANT SHALL BE AS SPECIFIED AND INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURERS PRINTED INSTRUCTIONS



1 / G2.2 TYPICAL SEALANT JOINT DETAIL

EXHIBIT C

SKA CONSULTING ENGINEERS
GREENSBORO, NC
ASHEVILLE, NC
CHARLESTON, SC
CHARLOTTE, NC
CHARLOTTESVILLE, VA
WILMINGTON, NC

PRELIMINARY - FOR BIDDING ONLY

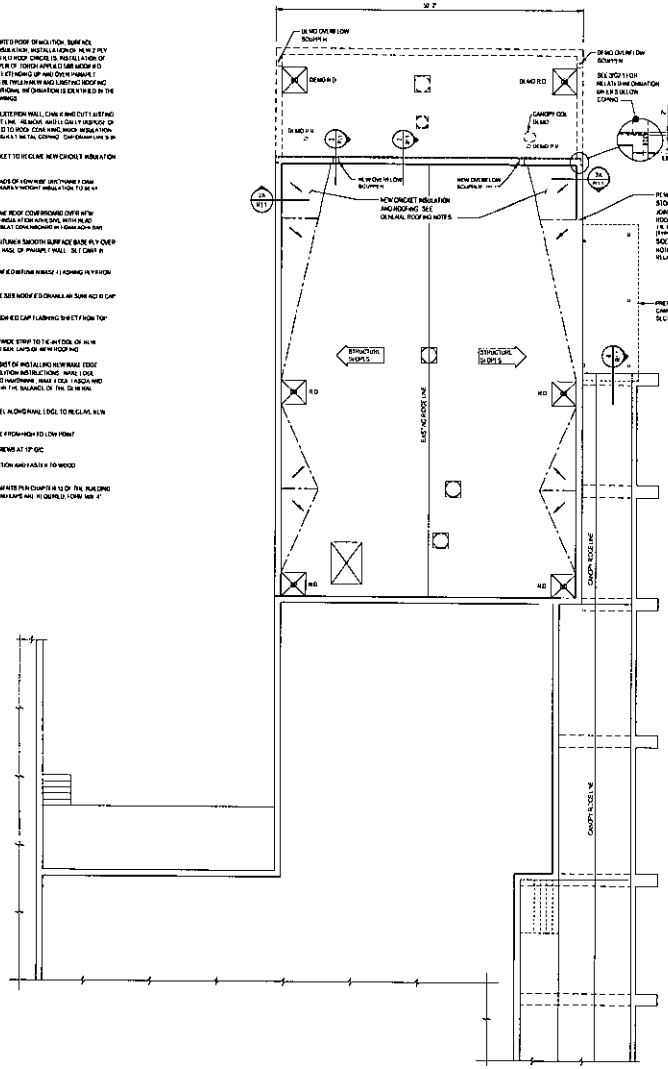
DEMOLITION AND RENOVATION FOR
GUILFORD COUNTY MENTAL CLINIC
201 N. EUGENE STREET
GREENSBORO, NORTH CAROLINA

EIFS SECTIONS AND DETAILS

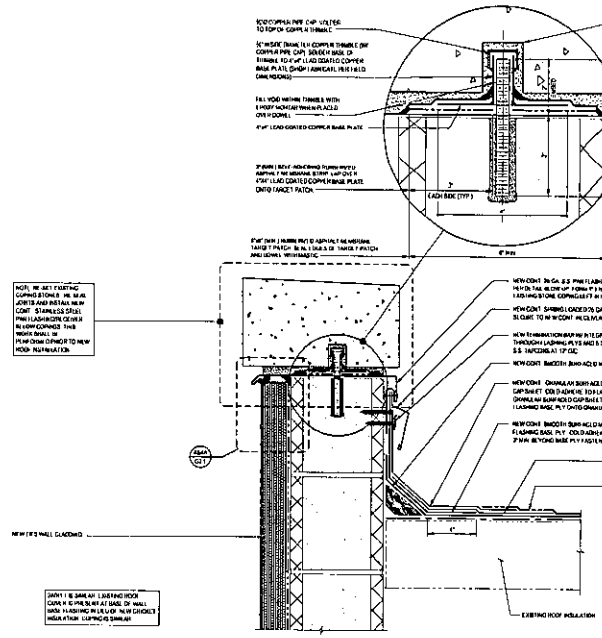
G2.2

GENERAL ROOFING NOTES

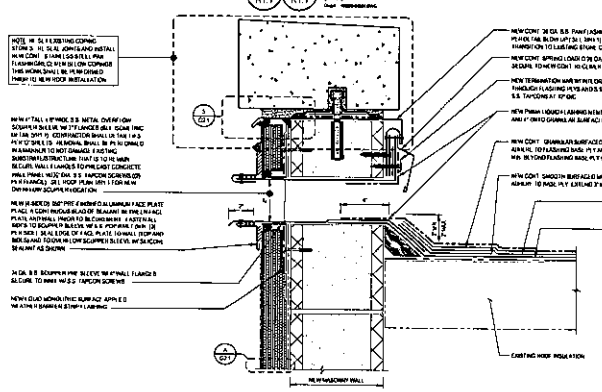
1. THE ROOFING SCOPE, ROOFING WORK SCOPE, IS TO CONSIST OF LIMITED ROOF DEMOLITION, SURFACE PREPARATION, MODIFICATION OF IDENTIFIED ROOF CONCAVE INSULATION, INSTALLATION OF NEW 2 PLY SBS MODIFIED BITUMEN TORCH APPLIED ROOFING ON NEW SLOPED ROOF CONCAVE, INSTALLATION OF COMPOSITE ROOF BASE FLASHING CONSISTING OF 40 MIL SELF PLY TORCH APPLIED SBS MODIFIED BITUMEN, AND A NEW PRE-FORMED PREMA LIQUID FLASHING SYSTEM, EXTENDING UP AND OVER PARAPET WALLS. PREMA IS NOT ONLY A LIQUID FLASHING TO MATCH THE NEW PREFABRICATED AND LIMITING ROOFING AND INSTALLATION OF NEW SHEET METAL ROOF COPING. ADDITIONAL INFORMATION IS IDENTIFIED IN THE BALANCE OF THE GENERAL ROOFING NOTES AND ON THE DRAWINGS.
2. AT AREAS OF ROOF DEMOLITION AND CREATION OF NEW SHAFT OPENING WALL, CAREFULLY CUT LIMITING ROOFING DOWN TO THE WOOD DECK IN A UNIFORM STRAIGHT LINE. REMOVE AND DISPOSE OF ALL EXISTING ROOFING MATERIALS INCLUDING BUT NOT LIMITED TO ROOF CONCRETE, ROOF INSULATION, ROOF FLASHING AND ROOF GRAVEL AND ABRASIVE DUST REMOVED AND SUPPLY THE COPING CAP DRAWING LINE IN ACCORDANCE WITH CONCAVE CONSTRUCTION DRAWING 1/A.
3. PREPARE SURFACE OF FLASHING AND NEW SBS BITUMEN ROOF CAP SHEET TO INCLUDE NEW CONCRETE INSULATION PERIMETER PLAN. REMOVE ALL LOOSE GRANULES.
4. INSTALL NEW POLYISOCYANURATE CONCRETE INSULATION IN AREAS OF NEW WORK (PETCHANE FOAM PREMIUM ASPHALT WITH READY SPACING OF 3" DIC. TEMPORARILY WEIGHT INSULATION TO BE AN INSULATION IN FOAM ADHESIVE.
5. AFTER INSULATION ADHESIVE SET, INSTALL 30 OF SELF DELPRIME ROOF COVER BOARD OVER NEW CONCRETE INSULATION IN ACCORDANCE WITH LOW RISE URETHANE FOAM INSULATION ADHESIVE, WITH HEAD SPACING OF 3" DIC. TEMPORARILY WEIGHT COVER BOARD TO SELF CONCRETE INSULATION IN FOAM ADHESIVE.
6. AFTER ADHESIVE SET, INSTALL TORCH GRADE SBS MODIFIED BITUMEN SMOOTH SURFACE BASE PLY OVER PRE-PRIMED CONCRETE INSULATION AND EXTEND 2" ABOVE ROOF CANT AT BASE OF PARAPET WALL. SEE CANOPY IN BLOCK ASPHALT ROOFING CEMENT.
7. AFTER INSTALL OF BASE PLY, INSTALL TORCH GRADE SBS MODIFIED BITUMEN INTERMEDIATE FLASHING PLY FROM TOP OF PARAPET WALL TO 2" BELOW ROOF CANT.
8. AFTER INSTALL OF FLASHING BASE PLY, INSTALL TORCH GRADE SBS MODIFIED BITUMEN SMOOTH SURFACE CAP SHEET OVER BASE PLY TO BASE OF ROOF CANT.
9. AFTER INSTALL OF CAP SHEET, INSTALL TORCH GRADE SBS MODIFIED CAP FLASHING SHEET FROM TOP OF PARAPET WALL TO 2" BELOW ROOF CANT.
10. INSTALL PREMA IN PREFORMED LIQUID FLASHING IN A MINIMUM 8" WIDE STRIP TO THE INTERIOR OF NEW ROOF AND TO FIRST PERFORATED NAILING LINE LAPS AND SEAM LAPS OF NEW ROOFING.
11. THE STEEL PLATE CANOPY ROOFING WORK SCOPE IS TO CONSIST OF INSTALLING NEW WALL EDGE FLASHING AT END OF CANOPY AS NOTED BY PROJECT DEMOLITION INSTRUCTIONS. WALL EDGE FLASHING WILL INCLUDE GASKET TAPE, 2" CLOSURE, FASTENING HARDWARE, WALL EDGE FASCIA AND CONTINUOUS CLEAT. ADDITIONAL INFORMATION IS IDENTIFIED IN THE BALANCE OF THE GENERAL ROOFING NOTES AND ON THE DRAWINGS.
12. OVERLAND PREFORMED EXISTING STANDING SEAM METAL ROOF PANEL ALONG PANEL EDGE TO REGULAR, NON METAL GAUGE REGULATING TAPE AND 2 CLOSURE.
13. INSTALL NEW BUTYL GASKET SEALING TAPE IN A STRAIGHT LINE FROM HIGH TO LOW POINT.
14. SEAT 2 CLOSURE ON BUTYL GASKET AND FASTEN WITH S.S. SCREWS AT 12" DIC.
15. INSTALL CONTINUOUS CLEAT FOR RAKE EDGE FASCIA DOWNSPOUTS AND FASTEN TO WOOD BLOCKING/STRUCTURAL BACK UP AT 12" DIC.
16. INSTALL NEW RAKE EDGE METAL METAL FLASHING SHEETS REQUIREMENTS PER CHAPTER 15 OF THE BUILDING CODE. CONTINUOUSLY OVERLAP EDGE CLOSURE AND CLEAT. IF END LAPS ARE REQUIRED, OVERLAP MIN. 4" SHEETS LAP WITH SEALANT. SEALANT AT JOINTS.



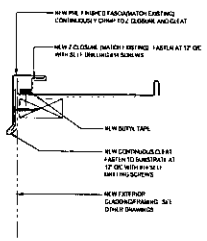
1 / R1.1 ROOF PLAN
1/8" = 1'-0"



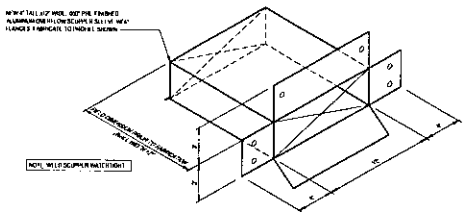
2 / R1.1 2A / R1.1 TOP OF PARAPET SECTION
3" = 1'-0"



3 / R1.1 SECTION - NEW OVERFLOW SCUPPER



4 / R1.1 METAL RAKE DETAIL
2" = 1'-0"



5 / R1.1 ISOMETRIC DETAIL - NEW OVERFLOW SCUPPER SLEEVE
NTS

EXHIBIT C

PRELIMINARY - FOR BIDDING ONLY

SKA CONSULTING ENGINEERS
GREENSBORO, NC
HIGH POINT, NC
ASHEVILLE, NC
CHARLESTON, SC
CHARLOTTE, NC
CHARLOTTESVILLE, VA
WILMINGTON, NC

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Project Number: 0812-0
Project Date: 10-20-2010
Issued: 12/10/2010 1:41 PM

NORTH CAROLINA PROFESSIONAL SEAL 019341 ENGINEER

Mark	Date	Description

ZERO LITTON AND REHABILITATION FOR
GUILFORD COUNTY MENTAL CLINIC
GREENSBORO, NORTH CAROLINA
301 E. LEAKE STREET

ROOF PLAN AND SECTIONS

Designed By: MPG
Drawn By: DKR
Checked By:
Approved By:
Date:

R1.1

EXHIBIT C

STRUCTURAL ABBREVIATIONS

A.B.	ANCHOR BOLT	GB	GRADE BEAM
ACI	AMERICAN CONCRETE INSTITUTE	GA	GAUGE, GALVANIZED
A.F.F.	ABOVE FINISHED FLOOR	GALV	GALVANIZED
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	H.M.	HOLLOW METAL
AITC	AMERICAN INSTITUTE OF TIMBER CONSTRUCTION	H.S.	HIGH STRENGTH
ALT	ALTERNATE	HSL (H)	HORIZONTAL SIDE
ARCH	ARCHITECTURAL	HSS	HOLLOW STRUCTURAL SHAPE
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	HT	HEIGHT
AWG	AIR GAGE	I.D.	INSIDE DIAMETER
AWS	AMERICAN WELDING SOCIETY	INCL	INCLUDE
BLDG	BUILDING	IN	INCH, INCHES
BM	BEAM	INT	INTERIOR, INTERSECTION
BP	BEARING PLATE, BASE PLATE	JBT	JOIST
BRG.	BEARING	JT	JOINT
C.J.	CONSTRUCTION JOINT	K	KIP (1,000 LBS)
CMU	CONCRETE MASONRY UNIT	KPI	KIPS PER FOOT
CLR	CLEAR OF GRAVITY OF STEEL	L	LONG
CL	CENTERLINE	LLBB	LONG LEGS BACK TO BACK
CLG	CEILING	LLH	LONG LEG HORIZONTAL
CLR	CLEAR	LLO	LONG LEG OUTSTANDING
COL	COLUMN	LLV	LONG LEG VERTICAL
CONC	CONCRETE	LW	LONG WAY
CONN	CONNECTION	LB	POUND
CONST	CONSTRUCTION	LC	LOAD
CONT	CONTINUOUS	LR	LIVE RAIL
CSW	CONCRETE SLAB WITH CHECKED EDGE	LL	LINE LOAD
	INSTITUTE	LT WT	LIGHT WEIGHT
CTR	CENTER		STEEL
			STRUCTURAL
D.C.J.	CONTROL JOINT	M.O.S.	MIDDLE OF SLAB
DJ	DOUBLE JOIST	M.O.W.	MIDDLE OF WALL
DS	DOWN SPOUT	MAT'L	MATERIAL
DIA	DIAMETER	MAX.	MAXIMUM
DET	DETAIL	MIN	MINIMUM
DIM.	DIMENSION	MISC	MISCELLANEOUS
DWG	DRAWING	MK	MARK
EW	EACH WAY		
EL	ELEVATION	NA	NOT APPLICABLE
DL	DEAD LOAD	NF	NEAR FACE
DN	DOWN	NIC	NOT IN CONTRACT
DWG(S)	DRAWING(S)	N.T.S.	NOT TO SCALE
		N.S.	NORTH SOUTH
E.F.	EACH FACE	NCSBC	NORTH CAROLINA STATE BUILDING CODE
E.S.	EACH SIDE		
E.W.	EACH WAY	NO	NUMBER
E.W.	EAST WEST	NOM	NOMINAL
EA.	EACH		
ELEV	ELEVATION, ELEVATOR	OC	ON CENTER
ENGR	ENGINEER	OD	OUTSIDE DIAMETER
EQ	EQUAL	OF	OUTSIDE FACE
EXIST	EXISTING	OPNG	OPENING
E.J.	EXPANSION JOINT	OPP	OPPOSITE
EXT	EXTERIOR	OH	OPPOSITE HAND
		ORIG	ORIGINAL
F.D.	FLOOR DRAIN		
F.F.	FAR FACE	PS	PRESTRESSED
FDN	FOUNDATION	PT	POST TENSIONING
FIN	FINISH	PC	PRE CAST CONCRETE
FL	FLOOR	PCI	PRESTRESSED CONCRETE INSTITUTE
FLG	FLANGE		
F.B.K.	FACE OF BRICK		
FT	FOOT, FEET		
FTG	FOOTING		
FV	FLUID VISCOSITY		

PN	PENETRATION		
PLMP	PLUMPNESS OR HIGH		
PL	PLATE		
PSF	POUNDS PER SQUARE FOOT		
PSI	POUNDS PER SQUARE INCH		
PS	PRE STRESS, PRESTRESSED		
PTI	POST TENSIONING INSTITUTE		
PVC	POLYVINYL CHLORIDE		
R	RADIUS		
RD	ROOF DRAIN		
RAD	RADIUS		
REF	REFERENCE		
REINF	REINFORCED, REINFORCING		
REQ	REQUIRED, REQUIRE		
S.J.	SAWED JOINT		
S.S.	STAINLESS STEEL		
SHT	SHEET, SHEET		
SCHD	SCHEDULE		
SECT	SECTION		
SHT	SHEET		
SIM	SIMILAR		
SJI	STEEL JOIST INSTITUTE		
SLBB	SHORT LEGS BACK TO BACK		
SLO	SHORT LEG OUTSTANDING		
SOG	SLAB ON GRADE		
SPL(GR)	SPLICE (GRADE)		
SQ	SQUARE		
STD	STANDARD		
STL	STEEL		
STRUCT	STRUCTURAL		
SYM	SYMMETRICAL		
T.O.C.	TOP OF CONCRETE		
T.O.F.	TOP OF FOOTING		
T.O.S.	TOP OF SLAB, TOP OF STEEL		
T.O.W.	TOP OF WALL		
T&B	TOP AND BOTTOM		
TEMP	TEMPORARY		
THRU	THROUGH		
TYP	TYPICAL		
U.L.	UNDERWRITERS LABORATORIES		
U.N.O.	UNLESS NOTED OTHERWISE		
W/O	WITHOUT		
WF	WIDE FLANGE		
W.P.	WORKING POINT		
W.W.F.	WELDED WIRE FABRIC		
X	BY		

STRUCTURAL SYMBOLS LEGEND

TOP OF CONCRETE ON DECK ELEVATION
SPOT ELEVATION
WORKING POINT
NOTE NUMBER (BILL NOTES)
CONNECTION TYPE
COLUMN ID NUMBER (SEE SCHEDULE)
REPEAT TYPE
REVISION MARK
CARBON TAG
MOMENT CONNECTION
SPREAD FOOTING
DRILLED PIER
CONCRETE PIER
PILE CAP
DRILLED PILE CAP
GRADE BEAM
COLUMN
STEEL BASE PLATE
BEAM BEARING PLATE
LINTEL
BATTERED PILE
CONCRETE WALL CONTROL JOINT
ELEVATION BY PLAN NOTES

LOAD BEARING WALL
NON LOAD BEARING WALL (NON SUPPORTED STRUCTURE)
SLAB ON GRADE CONTROL JOINT
W SHAPE BEAM
OPEN WEB JOIST
BRICK (SECTION)
BRICK (ELEVATION)
CONCRETE (LARGE SCALE)
CONCRETE (SMALL SCALE)
CMU (SECTION)
CMU (ELEVATION)
UNPRESTRESSED REINFORCED
EARTH FILL
FILL GROUT

DRAWING SYMBOL LEGEND

NEW COLUMN GRID DESIGNATION
EXIST COLUMN GRID DESIGNATION
INDICATES DIRECTION OF VIEW
SECTION NUMBER
SHEET WHERE SECTION IS SHOWN
INDICATES DIRECTION OF VIEW
ELEVATION NUMBER
SHEET WHERE ELEVATION IS SHOWN
DETAIL NUMBER
SHEET WHERE DETAIL IS SHOWN
INDICATES AREA SHOWN ON PLAN
INSULATION (RIGID)
INSULATION (BATT)
PLYWOOD (LARGE SCALE)
BATTS
STONE FILL
WOOD (FRAMING)
WOOD (ROUGH)
PRE CAST CONCRETE (SECTION)
PRE CAST CONCRETE (ELEVATION)

GENERAL NOTES

DRAWINGS & COORDINATION

1. STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS, AND DRAWINGS OF OTHER TRADES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING THE WORK OF ALL TRADES IS COORDINATED WITH THE STRUCTURAL WORK.
2. CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL DIMENSIONS SHOWN ON THE CONTRACT DOCUMENTS.
3. ANYTHING WHICH, IN THE OPINION OF THE CONTRACTOR, APPEARS TO BE DEFICIENCIES, OMISSIONS, CONTRADICTIONS OR AMBIGUITIES IN THE PLANS OR SPECIFICATIONS, SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGNER. CORRECTIONS OR WRITTEN INTERPRETATIONS SHALL BE ISSUED BEFORE CONSTRUCTION OF THE AFFECTED WORK MAY PROCEED.
4. DETAILS ARE MARKED AT THE SPECIFIC LOCATION WHERE THEY APPLY, BUT ALSO INDICATE GENERAL CONSTRUCTION CONDITIONS, SIMILAR OR OTHER LOCATIONS WITH SIMILAR CONDITIONS.
5. DETAILS NOTED AS "TYPICAL" MAY NOT BE REFERENCED ON THE DRAWINGS. TYPICAL DETAILS APPLY AT ALL LOCATIONS WHERE THE TYPE OF CONSTRUCTION SHOWN IN THE TYPICAL DETAIL OCCURS.

CONSTRUCTION

1. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE PROTECTION OF PERSONS AND PROPERTY LEFT ON OR ADJACENT TO THE PROJECT AND SHALL PROTECT SAME AGAINST INJURY, DAMAGE, OR LOSS.
2. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL SAFETY REGULATIONS, PROGRAMS, AND PRECAUTIONS RELATED TO ALL WORK ON THIS PROJECT. SAFETY REGULATIONS SHALL BE STRICTLY FOLLOWED AT ALL TIMES.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEANS AND METHODS OF CONSTRUCTION AND ERECTION OF STRUCTURAL MATERIALS IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS.
4. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO ORDERING MATERIALS OR PROCEEDING WITH WORK IN AREAS AFFECTED BY EXISTING CONDITIONS. THE DESIGNER SHALL BE NOTIFIED IN WRITING OF CONFLICTS BETWEEN EXISTING AND PROPOSED CONSTRUCTION.
5. THE STRUCTURE IS DESIGNED TO FUNCTION AS A UNIT UPON COMPLETION, AND ANY TEMPORARY BRACING OR SUPPORT AS REQUIRED TO ACCOMMODATE THE CONTRACTOR'S MEANS AND METHODS ARE THE RESPONSIBILITY OF THE CONTRACTOR.
6. THE CONTRACTOR IS RESPONSIBLE FOR LIMITING THE AMOUNT OF CONSTRUCTION LOAD IMPOSED ON NEW AND/OR EXISTING STRUCTURES. SUCH LOADS SHALL NOT EXCEED THE CAPACITY OF THE STRUCTURE AT ANY TIME.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DESIGNING, FURNISHING, ERECTING, AND REMOVING ANY SHORING AND BRACING REQUIRED DURING CONSTRUCTION, INCLUDING BRACING DURING FOR SIDES OF EXCAVATIONS DURING FOUNDATION CONSTRUCTION AND TEMPORARY BRACING FOR WALLS.
8. THE CONTRACTOR SHALL INFORM THE DESIGNER IN WRITING OF ANY DEVIATION FROM THE CONTRACT DOCUMENTS. CONTRACTOR SHALL NOT BE RELIEVED OF THE RESPONSIBILITY FOR SUCH DEVIATION BY VIRTUE OF THE DESIGNER'S REVIEW OF SHOP DRAWINGS, PRODUCT DATA, ETC. UNLESS THE CONTRACTOR HAS BROUGHT THE DESIGNER'S BOOK DEVIATION AT TIME OF SUBMISSION, AND THE DESIGNER HAS GIVEN A WRITTEN APPROVAL FOR THE SPECIFIC DEVIATION.
9. NO OPENINGS NOR ANY CHANGES IN SIZE, DIMENSION OR LOCATION SHALL BE MADE IN ANY STRUCTURAL ELEMENTS, IF NOT SHOWN ON THE DRAWINGS, WITHOUT WRITTEN APPROVAL OF THE DESIGNER.
10. WHERE CONSTRUCTION TOLERANCES ALLOW FOR VARIATIONS IN LOCATION, SIZE, ETC. OF STRUCTURAL ELEMENTS, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ALL MATERIALS AND LABOR NECESSARY TO ADDRESS CONDITIONS REQUIRED TO PROVIDE A FINISHED PRODUCT WHICH IS IN ACCORDANCE WITH THE REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS. ANY SUCH MODIFICATIONS REQUIRED SHALL BE REVIEWED AND APPROVED BY THE DESIGNER PRIOR TO EXECUTION.
11. THE DESIGNER SHALL BE NOTIFIED AT THE PROPER TIME WHEN TEST WORK READY FOR FIELD REVIEW BUT FOR NO WORKS SHALL BE COVERED OR OTHERWISE PUT OUT OF THE FIELD REVIEW.

FOUNDATIONS

1. THE CONTRACTOR IS TO REVIEW THE SUBSURFACE EXPLORATION REPORT PREPARED FOR THIS PROJECT BEFORE ANY PORTION OF THE SITE IS DISTURBED. THE OWNER HAS NOT OF SITE DRAWING TO BECOME QUALIFIED FAMILIAR WITH SUBSURFACE CONDITIONS WHICH MAY BE ENCOUNTERED DURING CONSTRUCTION. THE SUBSURFACE INFORMATION SHALL BE INCLUDED AS ON HAND IN THE PLANS AND SPECIFICATIONS AND IN COOPERATION WITH THE OWNER'S GEOTECHNICAL TESTING SERVICE.
2. SPECIAL FOUNDATIONS FOR THE SUPPORT OF MECHANICAL, ELECTRICAL, OR OTHER EQUIPMENT INSIDE OR OUTSIDE OF THE BUILDING SHALL BE DESIGNED BY THE EQUIPMENT SUPPLIERS AND REVIEWED BY THE STRUCTURAL ENGINEER FOR COMPATIBILITY WITH THE BUILDING FOUNDATION SYSTEM. DRAWINGS OF THE FOUNDATIONS SHALL BE SEALED BY A STRUCTURAL ENGINEER LICENSED IN THE STATE OF NORTH CAROLINA.
3. FOUNDATION DRAINAGE AND GROUNDWATER CONTROL SYSTEM MAY BE INDICATED IN PART ON THE STRUCTURAL DRAWINGS TO SHOW APPROXIMATE LOCATIONS RELATIVE TO OTHER STRUCTURAL COMPONENTS. FOUNDATION DRAINAGE AND GROUNDWATER CONTROL SYSTEM ARE NOT A PART OF THE STRUCTURAL DESIGN. SEE OTHER DRAWINGS FOR DESIGN REQUIREMENTS OF THE SYSTEM.
4. ALL FOOTINGS ARE DESIGNED TO BEAR ON PERMANENT SOIL OR COMPACTED ENGINEERED FILL AND TO HAVE A MINIMUM BEARING CAPACITY AS LISTED UNDER "STRUCTURAL DESIGN DATA" IN THE GENERAL NOTES. FOOTING LOCATIONS ARE TO BE VERIFIED BY AN INDEPENDENT GEOTECHNICAL ENGINEER TO FURNISH SOILS, BEARING PRESSURE, AND COMPACTION. COMPACTION OF SOIL UNDER FOOTINGS TO 95% OF THE MAXIMUM STANDARD PROCTOR DRY DENSITY.
5. RETAINING WALLS:
   A. ALL RETAINING WALLS SHOWN ON THE STRUCTURAL DRAWINGS HAVE BEEN DESIGNED FOR THE LATERAL EARTH PRESSURES SHOWN IN THE GENERAL NOTES UNDER "STRUCTURAL DESIGN DATA". RETAINING WALLS IN GENERAL A FOUNDATION DRAINAGE SYSTEM WHICH IS DESIGNED TO PREVENT THE WALLS FROM HYDROSTATIC PRESSURE BEHIND THE WALL.
   B. DO NOT BACKFILL AGAINST RETAINING WALLS UNTIL WALL MATERIALS HAVE REACHED THEIR REQUIRED STRENGTH AND ANY REQUIRED BRACING IS INSTALLED. BACKFILL NON-RETAINING FOUNDATION WALLS SHALL TAKE ONLY ON BOTH SIDES.
6. SEE FOUNDATION PLAN NOTES FOR FURTHER REQUIREMENTS.

CONCRETE

1. CONCRETE SHALL BE NORMAL WEIGHT CONCRETE UNLESS NOTED OTHERWISE. CONCRETE SHALL HAVE THE TYPE DRAWING MINIMUM 28-DAY COMPRESSIVE STRENGTHS UNLESS NOTED OTHERWISE IN THE FOLLOWING SPECIFICATIONS:

FOOTINGS AND PIERS	3000 PSI
SLAB ON GRADE	4000 PSI
PERIMETER WALL EXTERIOR EXPOSED CONCRETE	4000 PSI
ALL OTHER CONCRETE	4000 PSI

2. CONCRETE, PER MATERIALS EXPOSED TO WEATHER SHALL HAVE A MAXIMUM WATER/CEMENT RATIO OF 0.45 AND SHALL CONTAIN APPROXIMATELY 6% ENTRAINED AIR. SEE SPECIFICATIONS FOR FURTHER REQUIREMENTS.
3. CONCRETE SHALL BE batched USING MATERIALS AND PROPORTIONS DESIGNATED IN THE APPROVED DESIGN MIXES. THE GENERAL CONTRACTOR SHALL PROVIDE QUALITY CONTROL OF THE CONCRETE, AS NEEDED.
4. CONCRETE SLUMP SHALL BE AS INDICATED IN THE SPECIFICATIONS.
5. THE ADDITION OF WATER TO INCREASE SLUMP'S ABOVE THE LEVEL SPECIFIED OR TO RETEMPER CONCRETE WHICH HAS EXPERIENCED SLUMP LOSS DUE TO EXCESSIVE WAITING OR HEAT BUILD UP IS NOT PERMITTED.
6. CONCRETE SHALL BE HANDLED, PLACED, AND CONSOLIDATED IN ACCORDANCE WITH THE REQUIREMENTS OF THE SPECIFICATIONS.
7. SEE SPECIFICATIONS FOR CURING AND HOT AND COLD WEATHER REQUIREMENTS FOR CONCRETE.
8. PROVIDE PRE-MOLDED EXPANSION JOINT FILLER AT EDGE OF SLABS ON GRADE AGAINST VERTICAL SURFACES UNLESS NOTED OTHERWISE.
9. DOWELS FOR FOOTINGS SHALL BE ACCURATELY LOCATED AND SECURELY TIED IN PLACE PRIOR TO PLACEMENT OF THE CONCRETE. PLACEMENT OF DOWELS IN FRESH CONCRETE, AFTER THE CONCRETE HAS BEGUN PLACED, WILL NOT BE PERMITTED. USE TEMPLATES FOR THE PLACEMENT OF DOWELS IN COLUMNS AND SHEAR WALLS.
10. THE CONTRACTOR SHALL USE INSTRUMENTS TO MAINTAIN A CONTINUOUS CHECK OF THE ELEVATIONS OF THE TOP SURFACES OF SLABS DURING THE PLACEMENT AND FINISHING OF THE CONCRETE. ADJUSTMENTS SHALL BE MADE TO MAINTAIN THE SLAB ELEVATIONS WITHIN THE SPECIFIED TOLERANCES.
11. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING AND INSTALLING ALL ANCHOR BOLTS, CLIPS, INSERTS, SLEEVES AND OTHER REQUIRED ITEMS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND IN COOPERATION WITH OTHER TRADES PRIOR TO THE PLACING OF CONCRETE.
12. CONCRETE FORMWORK SHALL NOT BE REMOVED UNTIL CONCRETE HAS REACHED SUFFICIENT STRENGTH TO NOT BE DAMAGED BY FORMWORK REMOVAL. SEE ALSO SPECIFICATIONS.

ANCHORS & FASTENERS

1. GENERAL
   A. ALL ANCHOR AND FASTENER PRODUCTS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S PRINTED INSTRUCTIONS BY PERSONNEL CERTIFIED BY THE MANUFACTURER IN THE USE OF THE PRODUCT BEING INSTALLED. SUBMIT CLEARLY FOR COMPLIANCE.
   B. SEE DRAWINGS AND SPECIFICATIONS FOR SPECIFIC ANCHOR AND FASTENER REQUIREMENTS.
   C. PRODUCT DATA SHALL BE SUBMITTED AND APPROVED PRIOR TO INSTALLATION.
   D. WHERE THE MANUFACTURER IS REFERRED IN THE CONTRACT DOCUMENTS, IT IS PROVIDED AS THE MINIMUM STANDARD FOR THE ANCHOR OR FASTENER PRODUCT. ALTERNATE PRODUCTS MAY BE SUBMITTED FOR APPROVAL AND MUST PROVIDE AT LEAST THE SAME PERFORMANCE, FOR THE DETAILED INSTALLATION AS THE REFERENCED PRODUCT.
   E. DRAWING TO LIMITING MATERIALS DUE TO ANCHOR INSTALLATION SHALL BE PERFORMED USING TYPICAL DETAILS AND MATERIALS APPROVED BY THE ENGINEER.
2. ANCHORAGE IN CONCRETE
   A. THE SUITABILITY OF POST INSTALLED EXPANSION AND UNDERCUT ANCHORS FOR USE IN CONCRETE SHALL HAVE BEEN VERIFIED BY THE ACI 355.2 PRECQUALIFICATION TESTS.
   B. THE INSTALLATION OF ANCHORS IN HARDENED CONCRETE SHALL NOT DAMAGE THE SURROUNDING CONCRETE OR ANYTHING EMBEDDED IN THE CONCRETE. PRIOR TO DRILLING FOR ANCHOR INSTALLATION, LOCATE MATERIALS EMBEDDED IN THE CONCRETE USING NON-DESTRUCTIVE METHODS. ADJUST ANCHOR LOCATIONS TO AVOID FOUND BUILD MATERIALS. REPORT POSITIONS OF IN-FOUND ANCHORS FOR ENGINEER'S APPROVAL PRIOR TO DRILLING. USE SMALL PILOT HOLES USING A SMALL DIAMETER BIT UNTIL BIT AT FINAL ANCHOR LOCATION TO CONFIRM A CLEAR DRILLING PATH.
   C. REMOVE ANCHORS SHALL BE INSTALLED PER THE DETAILS NOTED AND PER TYPICAL DETAILS.
   D. UNLESS OTHERWISE NOTED, ANCHORAGE IN NEW POST-TENSIONED CONCRETE CONSTRUCTION SHALL BE MADE USING ANCHOR WEDGES PLACED IN THE FORMWORK PRIOR TO CONCRETE PLACEMENT.

LIGHT GAUGE METAL FRAMING

1. ALL LIGHT STRUCTURAL STEEL MEMBERS THAT SUPPORT ROOF AND / OR FLOOR LOADS SHALL BE FORMED FROM STEEL SECTIONS THAT COMPLY TO THE SPECIFICATIONS OF THE STEEL STUD MANUFACTURERS ASSOCIATION (SSMA).
2. ALL LIGHT STRUCTURAL STEEL MEMBERS SHALL HAVE A MINIMUM $F_y = 33$ KSI.
3. 6" STRUCTURAL WALL STUDS SHALL BE EQUAL TO SSMA DESIGNATION 600S162-43, SPACED AT 16" OC U.O.N. WITH GROSS PROPERTIES EQUAL TO: $A = 0.930$ IN^2, $I_x = 1.918$ IN^4, $I_y = 0.0$ IN^4, $S_x = 0.0$ IN^3, $R_x = 2.927$ IN, $R_y = 0.0$ IN.
4. 4" STRUCTURAL WALL STUDS SHALL BE EQUAL TO SSMA DESIGNATION 400S162-43, SPACED AT 16" OC U.O.N. WITH GROSS PROPERTIES EQUAL TO: $A = 0.947$ IN^2, $I_x = 2.306$ IN^4, $S_x = 0.0$ IN^3, $R_x = 2.769$ IN, $R_y = 0.0$ IN.
5. 4" STRUCTURAL WALL STUDS SHALL BE EQUAL TO SSMA DESIGNATION 400S162-33, SPACED AT 16" OC U.O.N. WITH GROSS PROPERTIES EQUAL TO: $A = 0.715$ IN^2, $I_x = 0.660$ IN^4, $S_x = 0.246$ IN^3, $R_x = 0.961$ IN, $R_y = 1.066$ IN, $R_y' = 0.611$ IN.
6. 2 1/2" STRUCTURAL WALL STUDS SHALL BE EQUAL TO SSMA DESIGNATION 350S162-33, SPACED AT 16" OC U.O.N. WITH GROSS PROPERTIES EQUAL TO: $A = 0.554$ IN^2, $I_x = 0.398$ IN^4, $S_x = 0.160$ IN^3, $R_x = 0.848$ IN, $R_y = 1.066$ IN, $R_y' = 0.611$ IN.
7. 2 1/2" STRUCTURAL WALL STUDS SHALL BE EQUAL TO SSMA DESIGNATION 250S162-43, SPACED AT 16" OC U.O.N. WITH GROSS PROPERTIES EQUAL TO: $A = 0.554$ IN^2, $I_x = 0.395$ IN^4, $S_x = 0.157$ IN^3, $R_x = 0.844$ IN, $R_y = 1.066$ IN, $R_y' = 0.611$ IN.
8. FRAMING AND INSTALL CONTINUOUS MECHANICAL LATERAL BRACING AT 48" OC OR AS REQUIRED BY THE STRUCTURAL WALL STUD MANUFACTURER'S UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
9. 1/8" DIA. FLAT STRAPS SHALL BE USED AT 3' MINIMUM OF 3 BAYS. A MINIMUM 1" FILLET WELD LENGTH OF 1 1/2" IS REQUIRED AT EACH END OF STRAPS TO ENSURE FULL STRAP CAPACITY.
10. FOUR (4) STUDS ARE REQUIRED AT EACH END OF EACH ADJACENT BAY. THE 2ND STUDS SHALL BE STITCH WELDED TOGETHER. SEE APPLICABLE DETAILS.
11. THE STITCH WELDS OF ANY ADJACENT BAY SHALL BE FILLED TO THE HEIGHT OF THE BAY, MINIMUM WIDTH.
12. A CONTINUOUS L, U, 2" X 2" X 3/16" SHALL BE INSTALLED ABOVE THE TOP 30 BAYS AT ALL LOAD BEARING STUD WALLS UP TO THE LOAD DISTRIBUTION WALL. SHALL NOT BE SPLICED ABOVE ANY WALL OPENING (WINDOW, DOOR, LOUVER, ETC.). PLACE TWO (2) STUDS MINIMUM BELOW SPLICE LOCATION BELOW EACH SIDE OF SPLICE.
13. SUBMIT 4 COPIES OF MANUFACTURERS DATA INDICATING WALL STUD / JOIST PROPERTIES AND BRACING.

REINFORCING STEEL

1. DETAILING, FABRICATION, STORAGE, AND INSTALLATION OF REINFORCING UNLESS OTHERWISE SHOWN ON THE PLANS, SHALL COMPLY WITH APPLICABLE REQUIREMENTS OF THE STRUCTURAL CODE, REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318) AND THE MANUAL OF STANDARD PRACTICE FOR DETAILING AND REINFORCED CONCRETE STRUCTURES (ACI 315), BOTH BY THE AMERICAN CONCRETE INSTITUTE.
2. REINFORCING STEEL SHALL COMPRISE ONLY TO ASTM A615, GRADE 60. REINFORCING STEEL WELDED TO WELDED WIRE FABRIC, PLATES OR SHAPES SHALL COMPRISE TO ASTM A706. DO NOT WELD REINFORCING BARS FOR CONSTRUCTION.
3. WELDED WIRE FABRIC SHALL COMPRISE TO ASTM A185.
4. UNLESS NOTED OTHERWISE ON HAND OR ON DETAILS, REINFORCING BARS MARKED ON THE PLANS AS NO CONTINUOUS SHALL BE LAPPED AT SPLICE LOCATIONS AS SHOWN IN SCHEDULE. FOR BENDS AT CORNERS OR IN INTERSECTIONS OF WALLS AND BEAMS, SEE TYPICAL DETAILS.
5. REINFORCING STEEL SHALL BE CLEAN OF MUD, DEBRIS, GROSS RUST, CEMENT GROUT, OR ANY OTHER MATERIAL WHICH MAY INHIBIT BOND BETWEEN THE STEEL AND THE CONCRETE.
6. REINFORCING BARS SHALL BE SECURELY TIED AND ANCHORED IN PLACE. REVIEW CONCRETE PLACEMENT FOR REINFORCING LOCATION.
7. UNLESS OTHERWISE NOTED, CONCRETE COVERAGE ON REINFORCING STEEL SHALL BE AS FOLLOWS:

FOOTINGS - ALL FACES	3"
GRADE BEAMS - TOP	1.5"
GRADE BEAMS - FORMED BUNK ACE	3"
GRADE BEAMS - SURFACE AGAINST SOIL	3"
SLAB ON GRADE - TOP	1"
SLAB ON GRADE - BOTTOM	3"
PIERS	3"
COLUMNS - PRTECTION	1.5"
BEAMS - INTERIOR	1.5"
BEAMS - EXTERIOR	3" (TOP)
WALLS - EXPOSED TO SOIL	3"
WALLS - NOT EXPOSED TO SOIL - INTERIOR	3/4"
PAN JOISTS	3/4"
COMPOSITE TOPPING	3/4" (TOP)

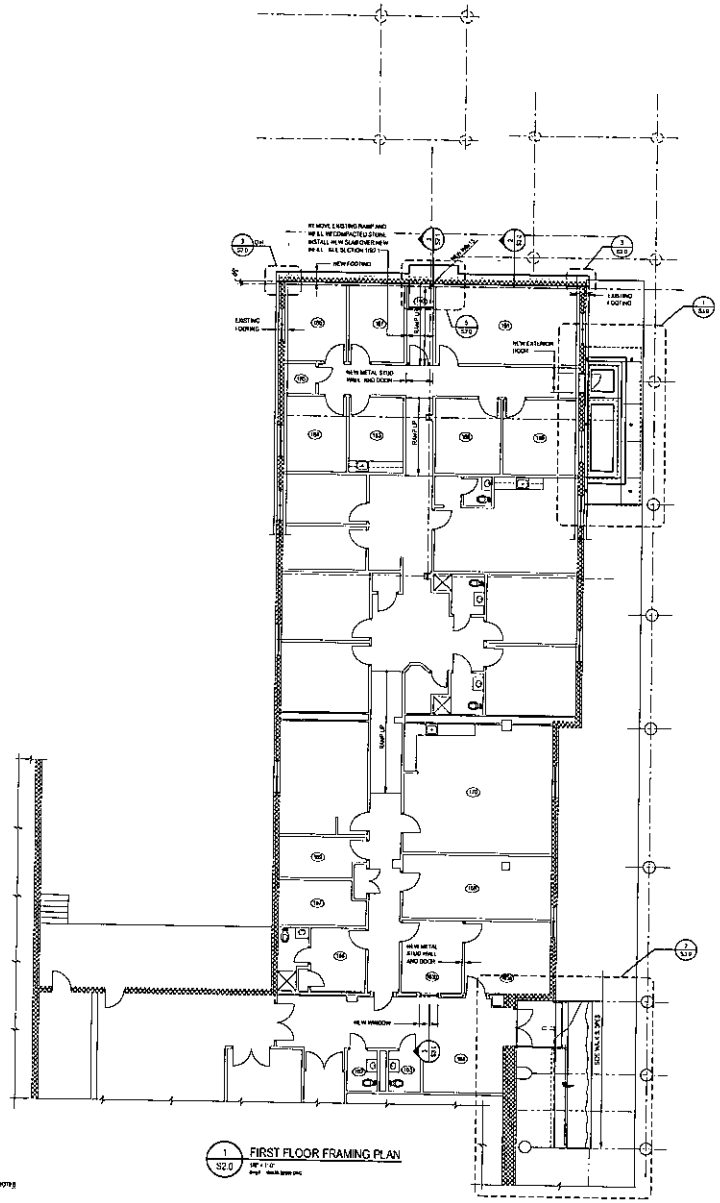
8. BARS SHALL BE BENT ONLY USING APPROVED METHODS. BARS SHALL NOT BE BENT AFTER PARTIAL EMBEDMENT IN HARDENED CONCRETE.

REINFORCED CONCRETE MASONRY

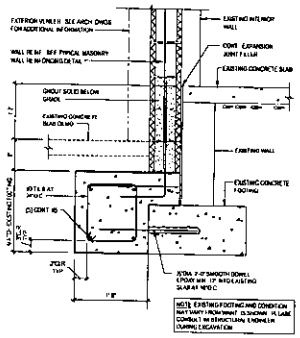
1. DETAILS FOR MASONRY CONSTRUCTION ON THE STRUCTURAL DRAWINGS ARE LIMITED IN SCOPE TO SHOW STRUCTURAL REQUIREMENTS ONLY. SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR FURTHER REQUIREMENTS OF MASONRY CONSTRUCTION AND USING JOINT TYPES, WALL BASE, PLACING PATTERNS, JOINT REINFORCING, VENEER TIES, CONTROL, ISOLATION, AND EXPANSION JOINTS, INSULATION, DAMPPROOFING, ETC. SEE DRAWINGS OF OTHER TRADES FOR DIMENSIONS AND OTHER SPECIAL REQUIREMENTS.
2. MASONRY CONSTRUCTION SHALL CONFORM TO NCSBC REINFORCED MASONRY BLOCK SHALL CONFORM TO ASTM C90. THE PORTLAND CEMENT MORTAR SHALL CONFORM TO ASTM C270, TYPE S. GROUT FOR FILLED MASONRY SHALL BE FINE OR COARSE GROUT APPROPRIATELY SIZED TO FIT THE WIDTH OF GROUT SPACE PER ACI 530. GROUT SHALL CONFORM TO ASTM C476 WITH A MINIMUM ASSIGNED DATA, SHALL BE FOR COARSE GROUT AND A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS WHEN TESTED IN ACCORDANCE WITH ASTM C476. THE MINIMUM COMPRESSIVE STRENGTH OF MASONRY SHALL BE AT LEAST 1500 PSI.
3. PROPORTIONING OF ALL GROUT SHALL BE ONE 1 BY VOLUME OF CEMENTITIOUS MATERIAL, NOT BY SHOVEL COUNT. MORTAR SHALL BE PROPORTIONED USING THE BASIC PORTLAND CEMENT, HYDRATED LIME AND SAND, MORTAR MIX THAT ARE SELECTED AND APPROVED FOR THE ENTIRE PROJECT. MORTAR SHALL BE MIXED IN ACCORDANCE WITH THE MIXING METHOD OF ASTM C270. "SPLIT LAYING" OR "BUTTER FLAT" NOT ALLOWED.
4. SOLID GROUT FILL SHALL BE PROVIDED IN ALL MASONRY BELOW GRADE, IN ALL CAVITIES WITH REINFORCING BARS, IN ALL CAVITIES WITH EMBEDDED OR DRILLED IN ANCHORS, AND AS INDICATED. GROUT FILL SHALL COMPLETELY AND SOLIDLY FILL REQUIRED SPACES.
5. ALL MASONRY CAVITIES WHICH ARE TO BE FILLED WITH GROUT SHALL BE FILLED IN LIFTS NOT EXCEEDING 8'-0" IF NECESSARY TO OBTAIN COMPLETE FILL. LIFT HEIGHT SHALL BE REDUCED. CARE SHALL BE TAKEN WHILE LAYING BLOCKS TO PREVENT MORTAR AND OTHER DEBRIS FROM FALLING INTO THE CAVITIES AND PREVENTING THE GROUT FROM COMPLETELY FILLING THE CAVITIES. GROUT SHALL BE CONSOLIDATED AT PLACEMENT AND AGAIN AFTER INITIAL WATER LOSS AND SETTLEMENT HAS OCCURRED.
6. WHERE REINFORCING IS SPECIFIED TO BE PLACED IN MASONRY CAVITIES, REINFORCING SHALL BE SECURELY TIED IN POSITION AT THE PROPER LOCATION WITHIN THE MASONRY PRIOR TO FILLING WITH GROUT. PROVIDE BAR SUPPORTS AND POSITIONERS AS REQUIRED. INSTALLATION OF UNREGULATED REINFORCEMENT WITHOUT CONTROL SHALL BE NOT PERMITTED.
7. SEE MISCELLANEOUS LIMITS SCHEDULE FOR REQUIRED LIMITS IN MASONRY WALLS NOT OTHERWISE SHOWN ON DRAWINGS.
8. EXPOSURE CATEGORY: B
9. INTERNAL PRESSURE COEFFICIENT: +/- 0.18
10. COMPONENTS & CLADDING DESIGN PER SEAONC DWG. TRIBUTARY AREA:
    (1) ZONE 1 - ROOF: 19.6/-19.0 PSF
    (2) ZONE 2 - ROOF EDGE: 26.9/-19.0 PSF
    (3) ZONE 3 - ROOF CORNER: -42.3/-19.0 PSF
    (4) ZONE 4 - WALL: -19.2/-19.6 PSF
    (5) ZONE 5 - WALL CORNER: -27.0/-19.6 PSF
11. DESIGN BASE SHEAR: NA
12. EARTHQUAKE LOADS: NA

STRUCTURAL DESIGN DATA

1. CODES AND STANDARDS
   A. 2012 N.C. REVISIONS TO THE 2009 INTERNATIONAL BUILDING CODE
   B. MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES, ASCE 7-05
   C. BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE, ACI 318-08
   D. BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES, ACI 530-08
   E. SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, AISC 360-05
   F. NFBAI, NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION
2. FOUNDATIONS
   A. FOOTINGS - ALLOWABLE SOIL BEARING PRESSURE: 2000 PSF (ASSUMED)
3. GRAVITY LOADS
   A. FLOOR LIVE LOADS
      (1) ALL: 100 PSF
      (INCLUDE 5 PSF/SF FOR MOVEABLE PARTITIONS)
   B. ROOF LIVE LOAD (Reducible): 20 PSF
   C. ROOF SNOW LOADS
      (1) GROUND SNOW LOAD: 10 PSF
      (2) FLAT ROOF SNOW LOAD: 17 PSF
      (3) OCCUPANCY CATEGORY: III
      (4) IMPORTANCE FACTOR: 1.1
      (5) CE: 1.2 (ASSUMED)
      (6) CT: 1.0
   D. OTHER DEAD LOADS: PER CONSTRUCTION SHOWN ON DWGS.
4. WIND LOADS
   A. BASIC WIND VELOCITY: 90 MPH
   B. OCCUPANCY CATEGORY: II
   C. IMPORTANCE FACTOR: 1.0
   D. EXPOSURE CATEGORY: B
   E. INTERNAL PRESSURE COE



1 S2.0 FIRST FLOOR FRAMING PLAN



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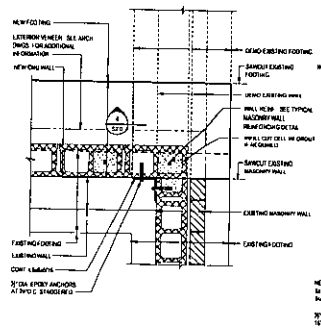

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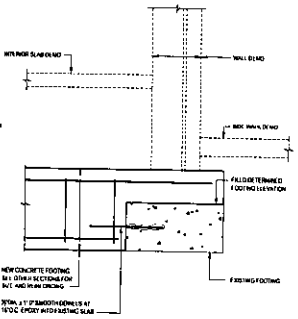

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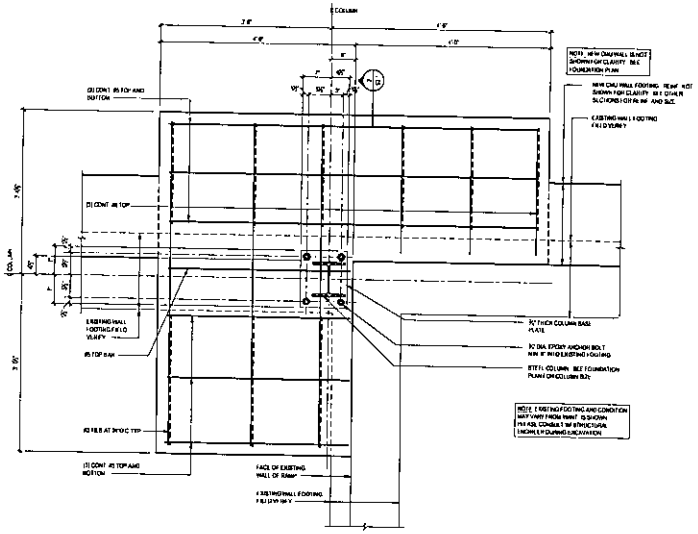

5 S2.0 SECTION

EXHIBIT C

FOUNDATION PLAN NOTES

1 ELEVATIONS

A THE FIN FLR ELEVATION (FOF) FOR ALL ELEVATIONS SHOWN ON THE FOUNDATION PLANS SHALL BE AT THE TOP OF THE FIRST FLOOR SLAB-ON-GRADE. SEE SITE PLAN FOR SPECIFIED ELEVATION OF FIRST FLOOR.

(MAY NEED TO SEE ACTUAL ELEVATIONS IF GROUND FLOOR HAS MULTIPLE LEVELS)

B THE FOLLOWING SYMBOLS ARE USED ON THE FOUNDATION PLANS TO NOTE ELEVATIONS AND/OR (S) ON BLOW (STEP IN) FLR ELEVATION BY INCLUDING

[ ] TOP OF FOOTING, GRADE BEAM, PILE CAP, OR DRILLED PIER CAP

[ ] TOP OF SLAB (ADD TARGET WITH LINE)

DRILLED PIER TOP ELEVATION (BOTTOM OF CAP) (AND OF SYMBOL)

DRILLED PIER TIP (WITH) (BOTTOM) ELEVATION

2 SEE ARCHITECTURAL AND CIVIL DRAWINGS FOR EXTERIOR CONCRETE PADS, ORNAMENTAL AND SIDEWALKS NOT SHOWN ON THIS DRAWING

3 WALL PROJECTIONS, CHASES, RECESS, AND BAR AND DETAIL ITEMS MAY NOT BE SHOWN. SEE ARCHITECTURAL DRAWINGS FOR THESE ITEMS

CONCRETE FLOOR SLAB NOTES

1 THE FLOOR SLAB SHALL BE 3.5" THICK NORMAL WEIGHT CONCRETE PLACED ON A 2" DEEP, 20 GAUGE, GALVANIZED CORRUGATED STEEL FORM IN OR (3.25" TOTAL THICKNESS) FOR AREAS NOTED ON PLANS. INCREASE SLAB THICKNESS BY 1/2" FOR EACH ADDITIONAL LAYER IN AREAS SHOWN

2 SEE ALL TYPICAL DETAILS SHOWING CONSTRUCTION RELATED TO ELEVATED CONCRETE FLOOR SLABS INCLUDING THOSE INDICATED BELOW

"FLOOR SLAB REINFORCING PLAN"

"SLAB REINFORCING DETAILS"

"SECTION THROUGH COMPOSITE SLABS AND BEAMS"

"SLAB FLOOR PLATE"

"OPENINGS IN FLOOR SLAB"

3 FLOOR DECK

A NO SHORING IS ARE REQUIRED FOR THE DECK UNLESS NOTED OTHERWISE. THE DECK SHALL BE CONTINUOUS OVER A MINIMUM OF 3 SPANS WHEN HANDLING CONDITIONS DO NOT PERMIT THREE SPAN DECK INSTALLATION, ADD SHORTS AT MIDSPAN OF DECK

B THE DECK SHALL BE ANCHORED TO THE STEEL SUPPORTS WITH MINIMUM STUDS OR 5/8" DIA. PUDDLE WELDS AT A MAX SPACING OF 12" O.C. ALL SIDELAPS, PERIMETER DECK UNITS SHALL BE CONNECTED TO PREVENT DIFFERENTIAL DEFLECTION OF ADJACENT UNITS DURING THE CONCRETE POUR. ALL EDGES OF THE DECK SHALL BE CONTINUOUSLY SUPPORTED. INSTALL MISCELLANEOUS STEEL AS REQUIRED

4 SLAB REINFORCING. SEE TYPICAL DETAILS FOR SLAB REINFORCING. SEE FLOOR PLAN FOR SPECIAL REINFORCING REQUIREMENTS. SEE TYPICAL DETAILS FOR ADDITIONAL SLAB REINFORCING AT FOR RANGE FOR SLAB SUBJECT ADD 3/4" CONCRETE COVER ON TOP OF REINFORCING STEEL

5 CONDUIT AND PIPE IS PLACED HORIZONTALLY WITHIN FLOOR SLAB SHALL MEET THE SIZE, SPACING, AND PLACEMENT REQUIREMENTS SPECIFIED FOR CONCRETE REINFORCING STEEL. DO NOT CUT OR RELOCATE REINFORCING BARS FOR PIPE OR CONDUIT INSTALLATION. NOTIFY ENGINEER OF CONDITIONS WHERE CONDUIT AND REINFORCING BARS ARE IN CONFLICT

6 SUSPENDED LOADS. ANCHORS FOR SUSPENDED LOADS SHALL BE INSTALLED IN THE BOTTOM 1/3 DO NOT CUT REINFORCING STEEL TO INSTALL ANCHORS

7 SLAB DEPRESSIONS. DEPRESSED AREAS ARE SHOWN ON THE PLAN FOR ESTIMATING PURPOSES ONLY. LOCATIONS AND DEPTHS OF ALL SLAB DEPRESSIONS SHALL BE DETERMINED IN ACCORDANCE WITH ARCHITECTURAL DRAWINGS

8 SLAB SLOPES. REF ARCHITECTURAL DRAWINGS FOR LOCATIONS OF FLOOR DRAINS AND SLOPED SLAB AREAS. SLOPE SURFACE UNIFORMLY TO DRAIN. SLOPE SLABS WHICH HOLD WATER SHALL BE NOT PLACED

9 SLAB OPENINGS

A FIRE FRAMING PLANS DO NOT SHOW ALL FLOOR OPENINGS. COORDINATE THE REQUIREMENTS FOR SLAB OPENINGS WITH DRAWINGS OF OTHER TRADES. VERIFY ALL OPENINGS BEFORE PLACING REINFORCING. DO NOT CUT REINFORCING REQUIRED TO INSTALL OPENINGS

B FLOOR PENETRATIONS 6" OR LESS IN DIAMETER MAY BE CORE DRILLED PROVIDED SLAB REINFORCING STEEL IS NOT CUT. PRIOR TO CUTTING, LOCATE SLAB REINFORCING STEEL BY PROBE SPALLING OR X-RAY FOR CORE DRILLING LOCATION WITH SMALL DRILL. THE SMALL DRILL IS REINFORCING IS LOCATED, CHISEL CORE LOCATION TO AVOID CUTTING REINFORCING STEEL

C SLAB PENETRATIONS SHALL BE SPACED NO CLOSER THAN 3 LARGER OPENING DIMENSION ON CENTER

D FLOOR PENETRATIONS LARGER THAN 6" SHALL BE FORMED. FLOOR PENETRATIONS LARGER THAN 12" SHALL BE REQUIRE STEEL FRAME PER TYPICAL DETAIL

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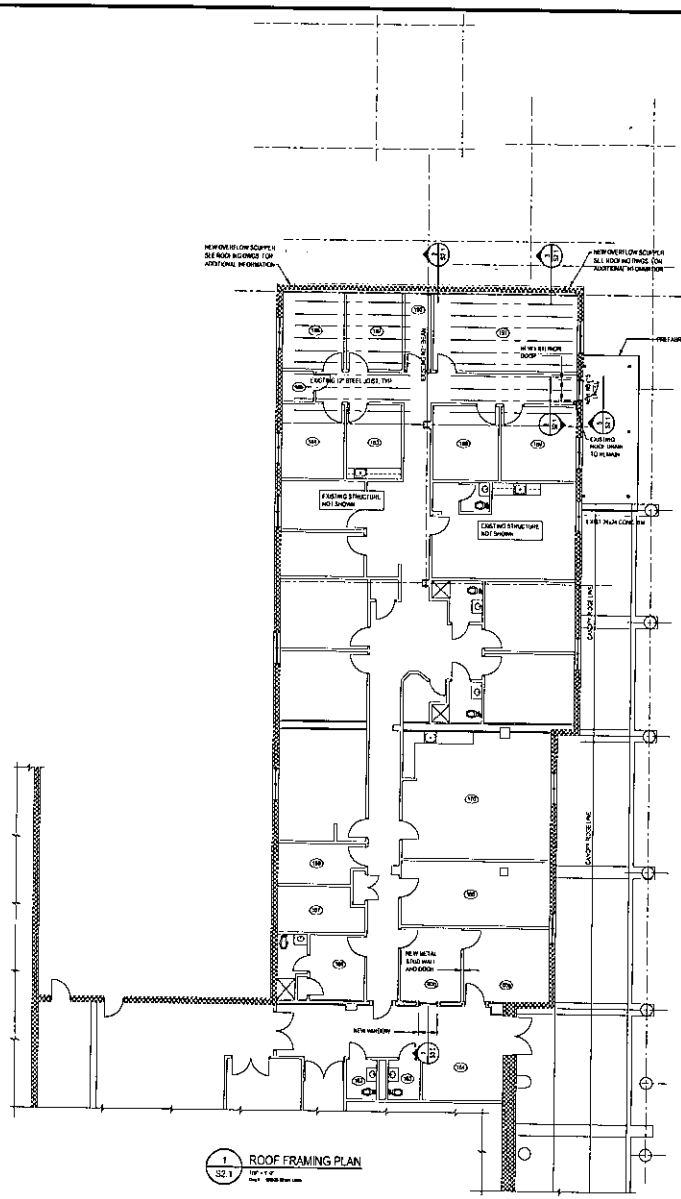
GUILFORD COUNTY MENTAL CLINIC

OPEN WORK NORTH DAVIS Inc

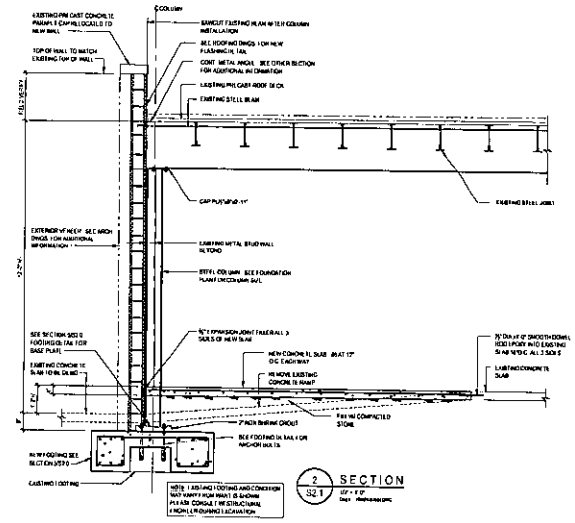
201 N. ELDON STREET

FIRST FLOOR FRAMING PLAN AND SECTIONS

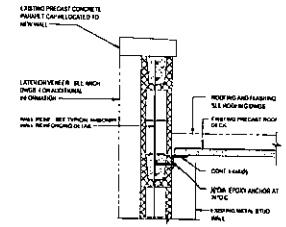
S2.0



1 S2.1 ROOF FRAMING PLAN
1/8" = 1'-0"

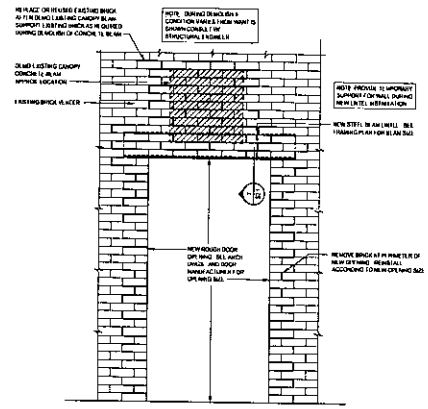


2 S2.1 SECTION
1/2" = 1'-0"

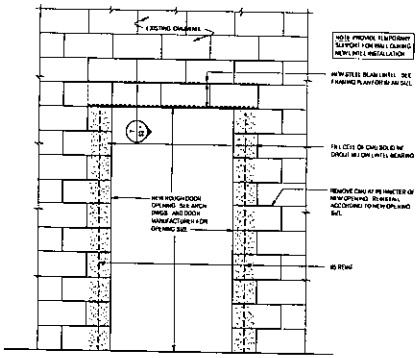


3 S2.1 SECTION
1" = 1'-0"

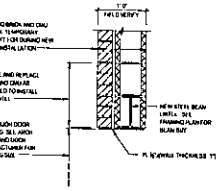
EXHIBIT C



5 S2.1 SECTION
3/4" = 1'-0"



6 S2.1 SECTION
3/4" = 1'-0"



5 S2.1 SECTION
1" = 1'-0"

ROOF FRAMING PLAN NOTES

1. ELEVATIONS
   A. THE REFERENCE ELEVATION (0'-0") FOR ALL ELEVATIONS SHOWN ON THE ROOF PLANS SHALL BE THE TOP OF THE FIRST FLOOR SLAB ON GRADE SEE SITE PLAN FOR SPECIFIED ELEVATION OF FIRST FLOOR
   B. THE FOLLOWING SYMBOLS ARE USED ON THE ROOF PLANS TO NOTE ELEVATIONS ABOVE THE REFERENCE ELEVATION DEFINED ABOVE
      [ ] TOP OF STEEL BEAM
      [ ] JOIST OR ANGLE ELEVATION MASONRY WALL
      < > TOP OF MASONRY WALL
   C. THE DECK BEARING ELEVATION SHALL BE (+0'-4") UNLESS NOTED OTHERWISE. LOWER BEAMS WHICH SUPPORT JOISTS BY 2-1/2" (OR JOIST SEAT
   D. (ALTERNATE TEXT) THE DECK BEARING ELEVATION VARIES WITH THE ROOF SLOPE. SEE PLAN FOR ELEVATIONS AND COORDINATE WITH ARCHITECTURAL DRAWINGS. PROVIDE UNIFORM SLOPE OF STEEL FRAMING BETWEEN SPECIFIED HIGH AND LOW POINTS. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING BLOCKING AT OR ADJACENT FRAMING MEMBERS FOR PROPER INSTALLATION OF ROOF DECK
2. THE FOLLOWING LINE TYPES REPRESENT WALLS ABOVE AND BELOW THE FLOOR SLAB
   (THIN HEAVY WEIGHT BOX) (LINE 5) LOAD BEARING WALL
   (THIN LIGHT WEIGHT DASHED) (LINE 3) NON LOAD BEARING WALL BELOW ROOF
   (LINE TYPES USED TO REPRESENT WARPING WALL CONDITIONS TO BE DETERMINED BASED ON THE NEEDS FOR EACH PROJECT)
3. SCHEDULE DEFINITIONS
   BP PLAN BEARING PLATE SEE S 2
   L MASONRY WALL LINTELS SEE S
4. SUSPENDED LOADS
   A. ALL LOADS SUSPENDED FROM THE ROOF FRAMING SHALL BE CONNECTED TO THE MAIN FRAMING MEMBERS ONLY. HOLDOWNS SHALL BE PLACED HOLES FROM THE ROOF BLOCK OR SHEAR WALL BLOCKING. SEE TYPICAL DETAILS FOR ATTACHING HOLDOWN OR SUSPENDED LOADS TO THE JOISTS
   B. SUSPENDED LOADS SHALL BE EVENLY DISTRIBUTED TO THE STRUCTURE ABOVE BY HANGER ASSEMBLY
   C. PRIOR TO INSTALLING SUSPENDED EQUIPMENT WEIGHING MORE THAN 100 POUNDS, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER FOR APPROVAL THE WEIGHT, LOCATION, AND HANGER POINT LOCATIONS
5. ROOF DECK
   A. UNLESS OTHERWISE NOTED, ROOF DECK SHALL BE 1-1/2" 20 GA. TYPE B, WIDE RIB. ALL ROOF DECK SHALL BE GALVANIZED. SEE ROOF DECK PLAN AND TYPICAL ROOF DECK DETAILS FOR DECK PATTERN LAYOUT FOR TECHNOLOGY ATTACHMENT
   ROOF DECK PLAN INCLUDES SHOP ROOF DECK ATTACHMENTS FOR DIAPHRAGM SHEAR AND WIND UPLIFT
   B. SEE ALL TYPICAL DETAILS SHOWING CONSTRUCTION RELATED TO ROOF DECKING INCLUDING THOSE INDICATED BELOW
      "ROOF DECK PATTERN PLAN LAYOUT"
      "FRAMING ROOF OPENINGS DETAIL"
   C. WHENEVER POSSIBLE, DECK SHALL BE CONTINUOUS OVER A MINIMUM OF 3 SPANS.
   D. ALL DECKS OF ROOF DECK SHALL BE CONTINUOUSLY SUPPORTED INTERMEDIATE MEMBERS WHEN SHOWN ON THE SPECIAL ARRANGEMENTS
6. COORDINATE WITH RELATED DRAWINGS THE SIZE AND LOCATION OF ANY OPENINGS REQUIRED THROUGH ROOF DECK WHETHER SHOWN ON THE STRUCTURAL PLAN OR NOT. FRAME ALL OPENINGS GREATER THAN 6", INCLUDING ROOF DRAINS, WITH ANGLE FRAME. SEE TYPICAL DETAIL
7. ROOF BEAMS
   A. SEE ALL TYPICAL DETAILS SHOWING CONNECTIONS RELATED TO STEEL BEAMS INCLUDING THOSE INDICATED BELOW
      "WIND BEAM CONNECTION"
      "THROUGH PLATE CONNECTION DETAIL"
      "WIND BEAM CONNECTION"
      "STEEL BEAM CONTINUOUS OVER COLUMN"
8. ROOF JOISTS
   A. SEE ALL TYPICAL DETAILS SHOWING CONSTRUCTION RELATED TO JOISTS INCLUDING THOSE INDICATED BELOW
      "JOIST BRIDGING ATTACHMENT DETAIL"
      "DETAIL FOR ATTACHMENT OF SUSPENDED LOADS TO BAR JOISTS"
      "BOTTOM FLANGE BRACE FOR BEAMS SUPPORTING JOISTS"
   B. ALL JOISTS SHALL BE DESIGNED FOR THE FOLLOWING LOADS
      (1) UNIFORMLY DISTRIBUTED QUARTER LOADS AND DEFLECTIONS AS INDICATED BY JOIST DESIGNATION
      (2) 15 PSF UPLIFT WIND UPLIFT
   (BOWL BUT CHORDS MAY NEED WIND UPLIFT PLAN TO DETAIL WHERE SPECIAL UPLIFT CONDITIONS OCCUR)
      (3) ROOF LOAD A CONCENTRATED DEAD LOAD OF 400 (1000 FOR LIFE POUNDS) IN ADDITION TO UNIFORM LOADS THAT MAY BE APPLIED TO ANY TOP OR BOTTOM CHORD PANEL POINT
      (4) WIND CHECK LOAD CHORD MEMBERS SHALL BE CAPABLE OF SUPPORTING A CONCENTRATED LOAD OF 300 POUNDS THAT MAY BE APPLIED AT ANY TOP OR BOTTOM CHORD LOCATION ALONG THE JOIST. THIS LOAD IS NOT IN ADDITION TO THE SPECIFIED UNIFORM LOADS
   C. JOISTS MARKED ON PLANS AS "SP" SHALL BE SPECIAL JOISTS DESIGNED BY THE JOIST MANUFACTURER FOR THE LOAD AND DEFLECTION REQUIREMENTS SHOWN ON THE SPECIAL JOIST ELEVATIONS UNLESS NOTED OTHERWISE. STANDARD BAR JOISTS REQUIRED IN SUPPLY
9. JOIST BRIDGING
   (1) PROVIDE HORIZONTAL BRIDGING FOR ALL STEEL JOISTS IN ACCORDANCE WITH SJI AND AS REQUIRED FOR WIND UPLIFT. BRIDGING SHALL BE EQUALLY SPACED ALONG THE SPAN OF THE JOIST.
   (2) WHERE BRIDGING ITEMS CONFLICT WITH WIRING DUCTS OTHER SUCH OBSTRUCTIONS, REPLACE SINGLE LINE OF BRIDGING WITH TWO LINES ON EACH SIDE OF THE OBSTRUCTION. ALSO, TO MAINTAIN THE INTERRUPTED HORIZONTAL BRIDGING ON EACH SIDE OF THE OBSTRUCTION WITH CROSS BRIDGING

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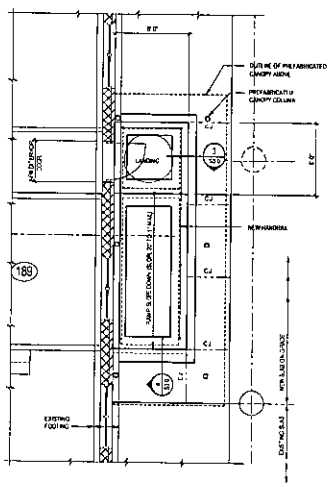
GUILFORD COUNTY MENTAL CLINIC
DEMOLITION AND RENOVATION
1/8"

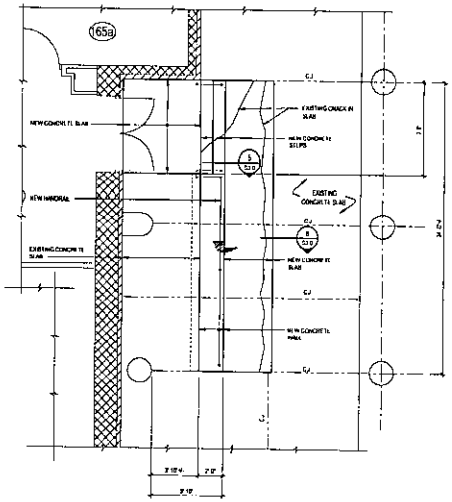
ROOF FRAMING PLAN AND SECTIONS

Designed By: ASM
Drawn By: MK
Checked By: ASM
Date:

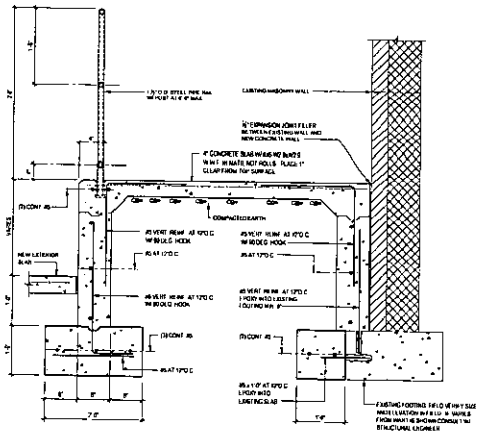
S2.1



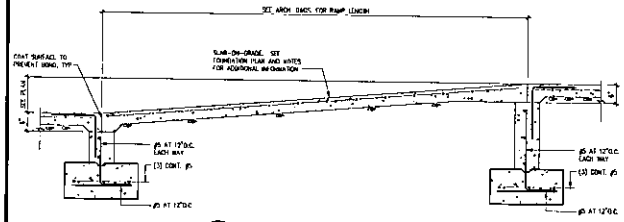
1 S3.0 ENLARGE FRAMING PLAN



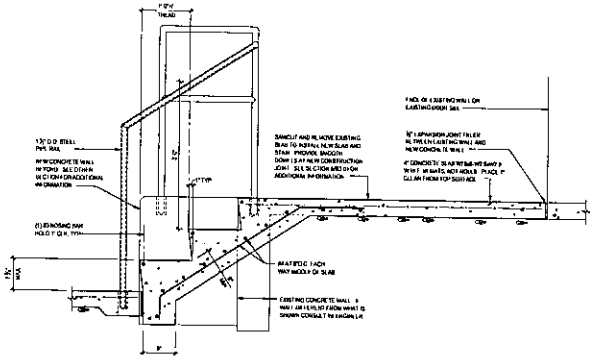
2 S3.0 ENLARGE FRAMING PLAN



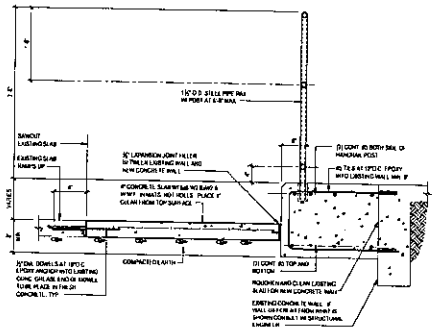
3 S3.0 SECTION



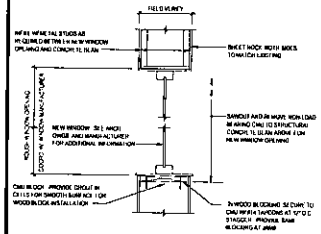
4 S3.0 TYPICAL DETAIL-RAMP ON GRADE



4 S3.0 SECTION



6 S3.0 SECTION



7 S3.0 SECTION

EXHIBIT C

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QUALITY INTEGRITY RESPONSIVENESS

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www.skaengineers.com
NC Firm No. P-1246

Project Number: 09-0-0
File Name: 09-0-0 SKA
Issued: 12/28/2011 1:16 PM

SEAL

No.	Date	Revisions

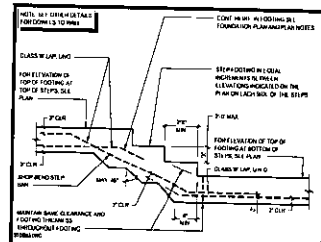
DEMOLITION AND RENOVATION FOR
GUILFORD COUNTY MENTAL CLINIC
GREENSBORO, NORTH CAROLINA

ENLARGE FRAMING PLANS AND SECTIONS

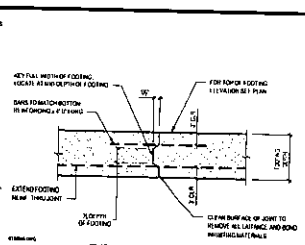
SCALE: SEE DRAWING

Designed by: AJH
Detailed by: MLW
Reviewed by: AJH
Date:

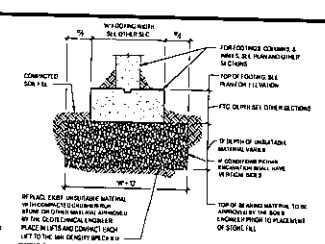
S3.0



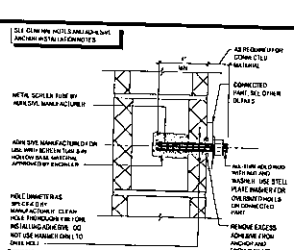
1 S4.0 TYPICAL DETAIL STEPPED WALL FOOTING



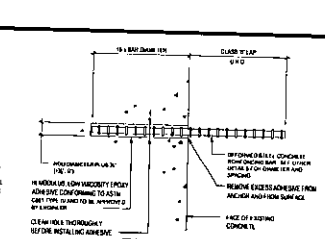
2 S4.0 TYPICAL DETAIL WALL FOOTING CONSTRUCTION JOINT



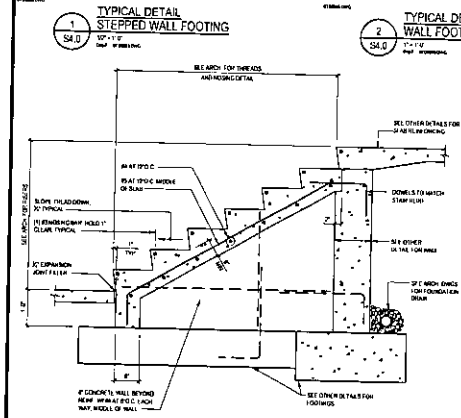
3 S4.0 TYPICAL DETAIL - FOOTING AT UNSUITABLE BEARING MATERIAL



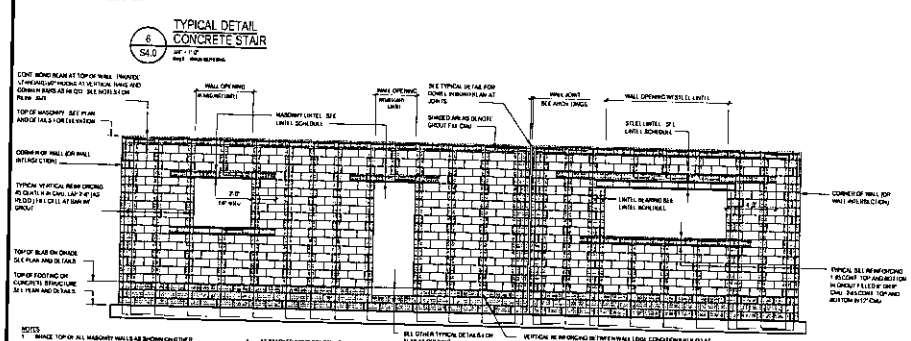
4 S4.0 TYPICAL DETAIL - ADHESIVE ANCHOR THREADED ROD IN HOLLOW MATERIAL



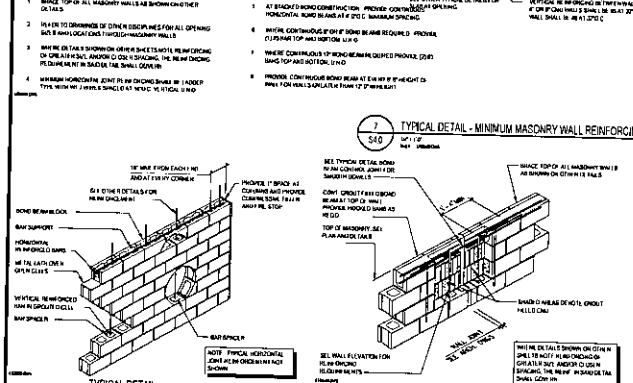
5 S4.0 TYPICAL DETAIL - ADHESIVE ANCHOR CONCRETE REINFORCING BAR



6 S4.0 TYPICAL DETAIL CONCRETE STAIR

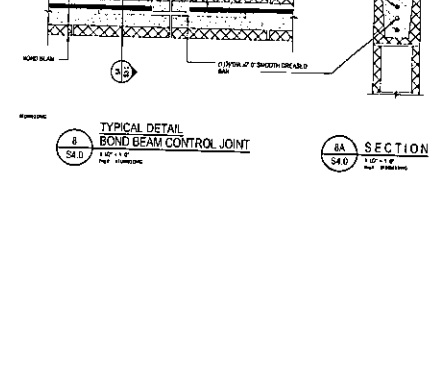


7 S4.0 TYPICAL DETAIL - MINIMUM MASONRY WALL REINFORCING



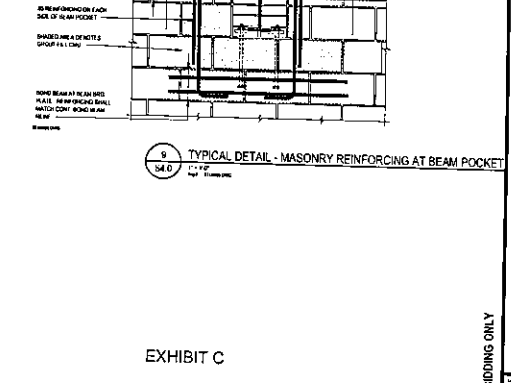
10 S4.0 TYPICAL DETAIL MASONRY REINFORCING

11 S4.0 TYPICAL DETAIL WALL JOINT REINFORCING



8 S4.0 TYPICAL DETAIL BOND BEAM CONTROL JOINT

8A S4.0 SECTION



9 S4.0 TYPICAL DETAIL - MASONRY REINFORCING AT BEAM POCKET

EXHIBIT C

PRELIMINARY BIDDING ONLY

SKA CONSULTING ENGINEERS

GUILFORD COUNTY MENTAL CLINIC

TYPICAL FOUNDATION SECTIONS AND MASONRY SECTIONS

S4.0

GENERAL NOTES

1. MATERIALS, EQUIPMENT AND INSTALLATION SHALL COMPLY WITH ALL REQUIREMENTS OF THE SPECIFICATIONS.
2. CONTRACTOR SHALL PREPARE, SUBMIT AND OBTAIN APPROVAL ON SHOP DRAWINGS SHOWING ALL DUCTWORK, AS WELL AS SHOWING WORK OF ALL OTHER TRADES (E.G. ARCHITECTURAL, STRUCTURAL, ELECTRICAL, PLUMBING, FIRE) AND DEMONSTRATE INSTALLATION.
3. EQUIPMENT SELECTIONS SCHEDULED ON THE DRAWINGS AND IN THE SPECIFICATIONS INDICATE A MINIMUM LEVEL OF ACCEPTABLE PERFORMANCE. SUBSTITUTION OF EQUIPMENT AND MATERIALS SHALL BE MADE WITH PRIOR APPROVAL.
4. ALL DUCTLAYOUTS ARE GENERALLY DIAGRAMMATIC. CONTRACTOR SHALL VERIFY AVAILABLE SPACE FOR INDICATED DUCTWORK PRIOR TO ORDERING EQUIPMENT AND FABRICATION OF THE ASSOCIATED DUCTWORK.
5. ALL PIPE LAYOUTS ARE GENERALLY DIAGRAMMATIC. CONTRACTOR SHALL VERIFY AVAILABLE SPACE FOR INDICATED PIPES BASED ON NEW EQUIPMENT AND SUPPLIES TAKEN OF THE ASSOCIATED CONDITIONS.
6. CONTRACTOR SHALL COORDINATE LOCATIONS OF ALL DUCT AND PIPING TO INTERFACE WITH PLUMBING, ELECTRICAL, CONTROLS, STRUCTURAL, AND ALL OTHER WORK, EXISTING OR NEW.
7. COORDINATE DUCTWORK ROUTING AND SIZES WITH EXISTING AND NEW WIRING, CONDUIT, STRUCTURAL AND OTHER INTERFERENCES TO AVOID CONFLICTS. IF DUCT HAS BE CHANGED USE EQUIVALENT RECTANGULAR DUCT TO SELECT THE AREA SIZE.
8. CONTRACTOR SHALL COORDINATE CLOSELY WITH THE DESIGNING CONTRACTOR TO VERIFY THAT ADEQUATE OPENINGS ARE PROVIDED IN THE BUILDING STRUCTURAL SYSTEM AND SLABS TO ALLOW FOR INSTALLATION OF MECHANICAL DUCTWORK AND PIPING SYSTEMS.
9. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR LEADING AND ACHIEVING COORDINATION OF ALL TRADES SO THAT ALL WORK WILL FIT AND CAN BE PROPERLY INSTALLED BY ALL OTHER TRADES CONTRACTORS. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING DETAILED INFORMATION FROM ALL TRADES TO SHOW LOCATIONS, SIZES AND COORDINATION OF COMPONENTS AS SHOWN ON DRAWINGS.
10. ALL DIMENSIONS ARE SHOWN FOR FREE FLOW AREA IN PLACE DUCTWORK.
11. WHERE PROVIDED FOR CLEAR WIDE, PIPING AND CONDUIT SHALL BE INSTALLED BETWEEN WITH AND UNDER DUCTWORK.
12. EQUIPMENT CONNECTION SIZES, ELEVATION AND CONFIGURATIONS ARE SUBJECT TO CHANGE WHEN ACTUAL VENDOR SHOP DRAWINGS ARE RECEIVED. CONTRACTOR SHALL CHECK CURRENT SHOP DRAWINGS PRIOR TO INSTALLATION OF DUCTWORK, DUCTWORK, AND PIPING AND SHALL MAKE REQUIRED ADJUSTMENTS AT NO ADDITIONAL COST TO THE OWNER.
13. WHERE DUCTS PASS THROUGH HOLES PRIMED SHALL CONTRACTOR SHALL PRIME IRRIGATED HOLE PATCHES WITH SAME MATERIAL (TYPE AND GAUGE) AS THE DUCTWORK PENETRATING THE WALL. THE HOLES MUST BE SECURELY ATTACHED TO THE WALL AND DUCT. HOLE PATCHES OPENING SHALL NOT BE VISIBLE WHEN THE WORK IS IN PLACE.
14. CONTRACTOR SHALL FURNISH AND INSTALL ALL ACCESS DOORS IN DUCTWORK AS REQUIRED FOR FIRE DAMPERS, DUCT MOUNTED SMOKE DETECTORS, CONTROLS, LOCATIONS, PROGRAMMING, DRAINS, AND WHERE PROVIDED IN THE CONTRACT DRAWINGS AND/OR THE SPECIFICATIONS. ALL ACCESS DOORS AND DRAINS MUST BE SHOWN ON THE DRAWINGS. REFER TO TYPICAL DETAILS FOR SUPPLIED COMPONENTS.
15. LOCATE ALL CONTROL VALVES, VALVE BOXES, DAMPERS AND OTHER MECHANICAL COMPONENTS THAT MAY REQUIRE ACCESS IN ACCESSIBLE POSITIONS WITH ADEQUATE MAINTENANCE CLEARANCE. COORDINATE AND LOCATE DAMPERS SO ACCESS IS NOT BLOCKED BY EQUIPMENT, DUCTWORK, HANGER STRUCTURE, CONDUIT AND THE LIKE. THE GENERAL CONTRACTOR SHALL PROVIDE ACCESS DOORS IN WALLS AND HARD CEILINGS ADJACENT TO ALL DAMPERS. THE MECHANICAL CONTRACTOR SHALL PROVIDE NOTIFY THE G.C. OF THE SIZES, LOCATIONS AND TYPES OF ALL ACCESS DOORS REQUIRED IN THE DUCTWORK.
16. MAINTAIN A MINIMUM OF 30" CLEARANCE FOR ACCESS TO CONTROLS ON ALL TERMINAL BOXES, CONTROL VALVES, AND THE LIKE.
17. ELBOWS IN ALL DUCTWORK SHALL BE SMOOTH SMOOTH RADIUS TYPE. SEE DUCTWORK SPECIFICATIONS. SQUARE ELBOWS ARE SHOWN IN MAIN PLANS SOLE FOR THESE OPENINGS FOR SIMPLICITY OF DRAWING. ALL SQUARE ELBOWS SHALL NOT BE USED, EXCEPT WHERE ABSOLUTELY NECESSARY TO FIT IN A SPECIFIC SITUATION AND ONLY AS SPECIFICALLY APPROVED BY THE OWNER'S REPRESENTATIVE. WHERE SQUARE ELBOWS MUST BE USED, TURNING VANES SHALL BE PROVIDED.
18. ALL BRANCH DUCT CONNECTIONS SHALL BE AN OLDREE LATERAL TYPE FOR RECTANGULAR DUCTS, OR CONICAL ENTRY TYPE FOR ROUND DUCTS. TEE-PITCH WHETHER SPECIFICALLY INDICATED OR NOT.
19. ALL DUCTWORK INSULATION SHALL MEET THE REQUIREMENTS OF THE SPECIFICATIONS AS TO THE TYPES, THICKNESSES AND INSTALLATION REQUIREMENTS OF THE INSULATION SCHEDULE.
20. MANUAL BALANCING DAMPERS, ACCESS DOORS, AND OTHER DUCTWORK ACCESSORIES SHALL BE CONSTRUCTED OF THE SAME MATERIAL AS THE ADJACENT DUCTWORK IN WHICH THEY ARE INSTALLED.
21. MECHANICAL EQUIPMENT LOCATIONS ARE SHOWN APPROXIMATELY. LOCATE EQUIPMENT AS SHOWN, CONFIRMED LOCATION WITH CONTROLS, AND RE-ELECTRICAL CONNECTIONS AND CONFLICTS AND/OR OF HANGING SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE.
22. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING IN THE FIELD THAT THE MECHANICAL EQUIPMENT AND DUCTWORK FOR THIS PROJECT HAS BEEN INSTALLED IN SUCH MANNER THAT VIBRATIONS SHALL NOT BE TRANSMITTED TO THE BUILDING STRUCTURE. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO, ANCHORING CONDUIT BETWEEN DUCTWORK, DUCTWORK SUPPORTS AND CEILING HANGERS, CONDUIT WALL STUDS OR BRACES, PIPING AND HANGERS AND PIPE, AND THE UPPER CEILING SUPPORT FRAMING SHALL NOT BE SUBJECT TO POSSIBLE DUCTWORK OR EQUIPMENT DUMPING.
23. ALL PIPING PENETRATIONS THROUGH FIRE RATED WALLS, FLOORS AND CEILINGS SHALL BE PROPERLY FIRE STOPPED IN ACCORDANCE WITH CODE AND/OR OWNER'S REQUIREMENTS. PIPE RATED CENTERS OR PIPE COLLARS ARE REQUIRED. COORDINATE SUCH REQUIREMENTS IN GENERAL CONTRACTOR.
24. ALL PIPING INSULATION SHALL MEET THE REQUIREMENTS OF THE SPECIFICATIONS AS TO THE TYPES.
25. MECHANICAL EQUIPMENT, PIPING, EQUIPMENT, AND INSULATION THAT WILL BE EXPOSED TO THE CONSTRUCTION ENVIRONMENT SHALL BE PROTECTED FROM DAMAGE. PAINT, DUST AND DEBRIS THAT ESTABLISHES AT THE CONSTRUCTION SITE. PROVIDE APPROVED PROTECTION WHILE DUCTWORK, MECHANICAL EQUIPMENT IS STORED, FABRICATED AND INSTALLED AT THE JOBSITE.
26. ALL CONTROLS, SWITCHES, SENSORS, THERMOSTATS CONTROLLER, AND THE LIKE INDICATED ON PLANS SHALL BE PROVIDED BY MECHANICAL OR CONTROLS CONTRACTORS UNLESS SPECIFICALLY INDICATED TO BE PROVIDED BY OTHERS.
27. ALL PIPE ELEVATIONS ARE TO BOTTOM OF PIPE (NOT INSULATION) UNLESS NOTED OTHERWISE.
28. ANY SUBSTITUTING OF THE DRAWINGS OR SPECIFICATIONS ARE NOT INTENDED TO EXPAND OR SUBSTITUTE THE WORK. SUCH SUBMITTED OF A SUBSTITUTION UPON WORK OR TRADE JURISDICTION.

LEGEND

Type # 1400700 SHEET DWG

- EXISTING PIPING, DUCTWORK, EQUIPMENT AND ACCESSORIES TO BE REMOVED
- EXISTING PIPING TO REMAIN
- HWS — HOT WATER SUPPLY
- HWR — HOT WATER RETURN
- CHWS — CHILLED WATER SUPPLY
- CHWR — CHILLED WATER RETURN
- GATE VALVE
- CHECK VALVE
- BALL VALVE
- TOP TAKE OFF
- INSTRUMENT TAP
- FLOW TURNED UP
- ELBOW TURNED DOWN
- PIPE CONTINUES
- POINT OF CONNECTION NEW TO OLD
- POINT OF DISCONNECT
- ROOM TIMPLATE
- VOLUME
- FLEXIBLE SQUARE OR RECTANGULAR
- CEILING RETURN OR EXHAUST
- DIFFUSER, REGISTER OR GRILLE SYMBOL LETTER DENOTES TYPE, NUMBER INDICATES CFM
- EQUIPMENT SYMBOL LETTER DENOTES TYPE, NUMBER INDICATES TAG

MECHANICAL GENERAL SPECIFICATIONS

Ver 2 180308 – MODIFIED

ALL WORK SHALL MEET THE APPLICABLE REQUIREMENTS OF THE 2012 NORTH CAROLINA BUILDING CODE, THE 2012 NORTH CAROLINA MECHANICAL CODE, AND ADOPTED 2011 NEC.

THE MC SHALL MAINTAIN AT THE PROJECT SITE ONE SET OF DRAWINGS TO BE UPDATED AS THE WORK PROGRESSES TO SHOW ALL CHANGES. THE MC SHALL SUBMIT THE COMPLETE SET OF REDLINED DRAWINGS TO THE ENGINEER UPON COMPLETION OF THE PROJECT.

ALL MATERIAL AND EQUIPMENT SHALL BE STRICTLY INSTALLED ACCORDING TO THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.

SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR THE FOLLOWING: GRILLES, PIPING, CONTROLS DRAWINGS AND HVAC EQUIPMENT.

TESTING AND BALANCING

THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PERFORMING INITIAL EQUIPMENT AND SYSTEM CHECKS, TESTING, ADJUSTING AND BALANCING. TESTING AND BALANCING SHALL BE PERFORMED IN ACCORDANCE WITH NAMC OR NEBB PROCEDURES. SYSTEM SHALL BE BALANCED WITHIN 10% OF DESIGN CONDITIONS.

PIPING SCHEDULE – SERVICE & MATERIAL SYSTEM

I.D.	DESCRIPTION	MATERIAL SYSTEM	INSULATION SYSTEM	NOTES
HWSUN	HOT WATER SUPPLY RETURN	CP1	4	1,2
CHWSUN	CHILLED WATER SUPPLY RETURN	CP1	4	1,2

PIPE REFRIGERATION HOSE

1. USE PROPER FITTING AND FITTINGS FOR ALL COPPER PIPING.
2. PROVIDE DIELECTRIC ISOLATION BETWEEN DISSIMILAR METALS.

PIPING SCHEDULE – INSULATION SYSTEM DEFINITIONS

ITEM	NOTES	MATERIALS
PIPE (ABOVE GRADE)	ALL	100% FIBER TYPE I, SEAMLESS, HARD GRADE, CORNER FITTINGS COMPLY WITH NUMBER C1104 (ASTM C1017) PERCENT MEDIA FOR 200%

MECHANICAL DRAWING INDEX

Sheet Number Drawing

M0.1	PARTIAL FIRST FLOOR DEMOLITION PLAN
	NOTES, SPECS, AND LEGEND
M2.1	PARTIAL FIRST FLOOR MECHANICAL PLAN

HVAC INSULATION SCHEDULE

SYSTEM	DESCRIPTION	PIPE SIZE	INSULATION
4 (INS_TPOR)	MOLDED GLASS PIPE WITH ALL SERVICE JACKETS CONTINUOUS WITHOUT FAMILY NOT IN PLENUM	1-1/2" & SMALLER	1.5" THICK

DUCTWORK MATERIALS

ALL DUCT WORK LINING SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH SMACNA (DUCT CONSTRUCTION STANDARDS), THE NATIONAL FIRE PROTECTION ASSOCIATION AND THE LOCAL BUILDING CODE.

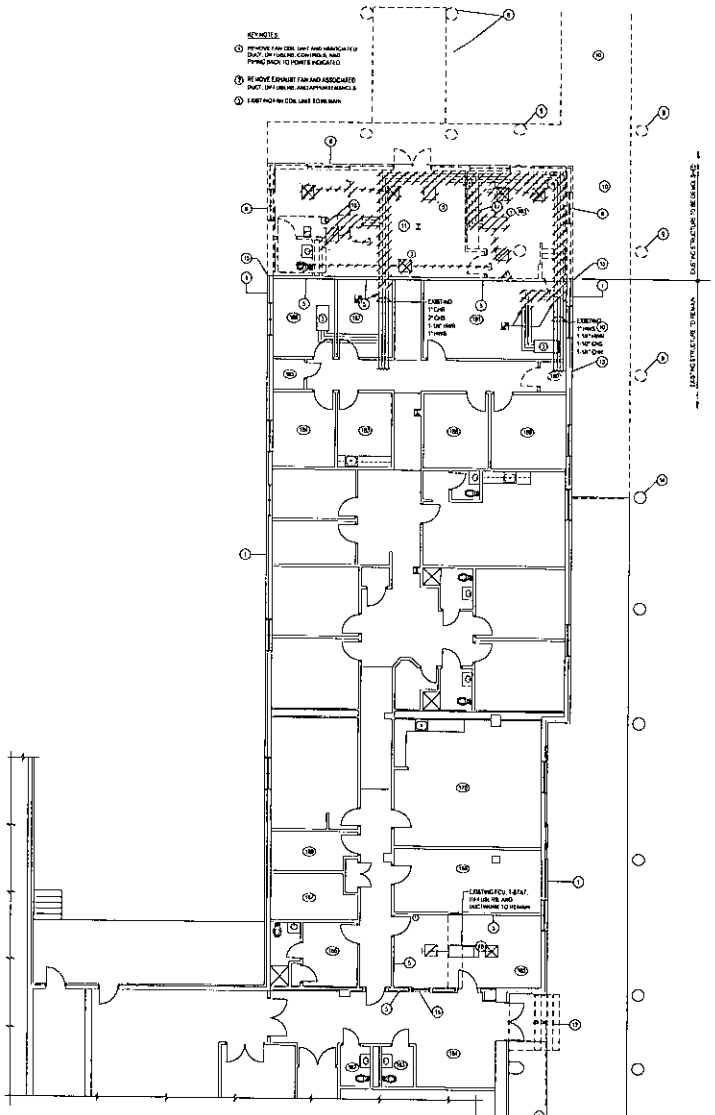
ALL HVAC DUCTWORK, UNLESS OTHERWISE SPECIFICALLY INDICATED ON THE DRAWINGS SHALL BE GALVANIZED STEEL COR SIMILAR TO THE REQUIREMENTS OF ASTM A446, ASTM A525, AND ASTM A527 LOCKFORMING DUCTWORK. EXCEPT WHERE ANY DUCTWORK SHALL BE CONSTRUCTED TO SMACNA 1" INC PRESSURE CLASS. HIGHER PRESSURE DUCTWORK (UP TO PSIGM OF 10" TO 0.5 S) SHALL BE CONSTRUCTED TO SMACNA 2" HIGH PRESSURE CLASS.

ALL LOW PRESSURE RIGID FLEXIBLE RIDE DUCTWORK SHALL MEET THE REQUIREMENTS OF UL-181 CLASS 1 AIR DUCT, NFPA 90A AND 90B, AND THE REQUIREMENTS OF THIS SPECIFICATION SECTION.

ALL SUPPLY DUCTWORK SHALL BE SEALED TO MEET SMACNA SEAL CLASS A.

ALL RETURN AND EXHAUST DUCT SHALL MEET SMACNA SEAL CLASS B.

SUPPLY AND RETURN DUCT SHALL BE INSULATED OR OTHERWISE WITH FLEXIBLE GLASS FIBER INSULATION. INSULATION SHALL BE 1.5 INCHES THICK UNLESS OTHERWISE INDICATED. INSULATION SHALL BE 1.5 INCHES THICK. DUCTWORK INSULATION SHALL BE NOT PERMITTED ON THE PLENUM.



1 M2.1 FIRST FLOOR DEMOLITION PLAN

1 M2.1 PARTIAL FIRST FLOOR DEMOLITION PLAN

EXHIBIT C

SKA CONSULTING ENGINEERS
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Project number 19-120
Issue date 07/31/19
Phase

NORTH CAROLINA PROFESSIONAL SEAL 030364 ENGINEER

Revisions		

DEMOLITION AND RENOVATION FOR

GUILFORD COUNTY MENTAL CLINIC

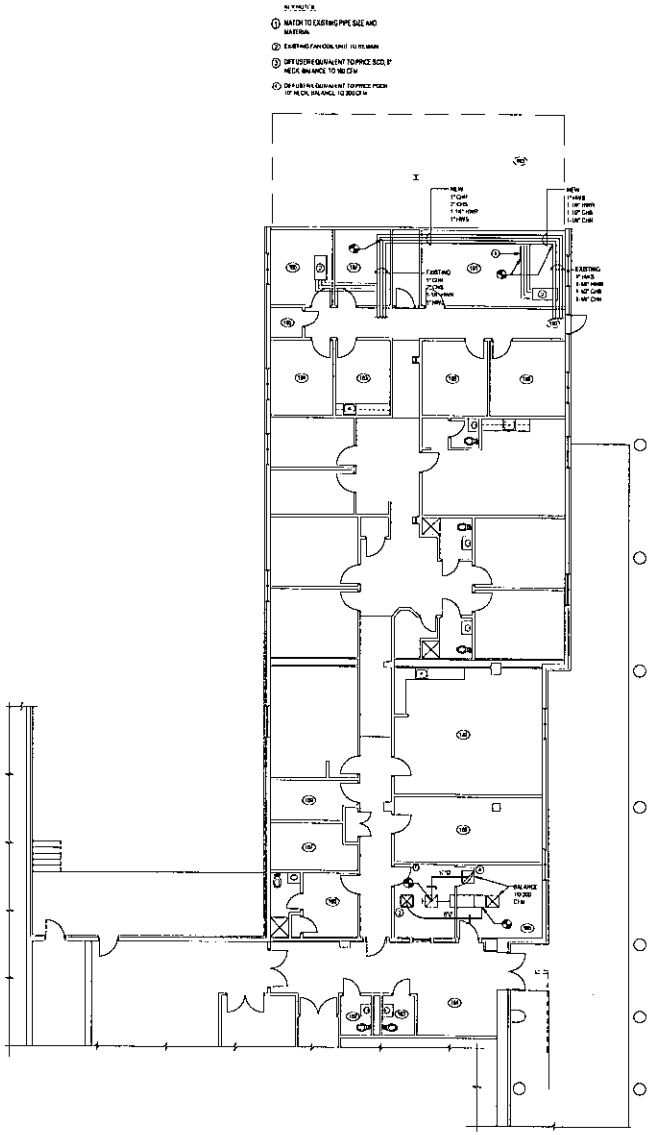
GREENSBORO, NORTH CAROLINA

PARTIAL FIRST FLOOR DEMOLITION PLAN, NOTES, SPECS, AND LEGEND

Designed by
Drawn by
Checked by
Date

M2.1

EXHIBIT C



1 M2.2 PARTIAL FIRST FLOOR MECHANICAL PLAN

SKA CONSULTING ENGINEERS

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SEAL

GUILFORD COUNTY MENTAL CLINIC

PARTIAL FIRST FLOOR MECHANICAL PLAN

M2.2

GENERAL REQUIREMENTS

GENERAL CONDITIONS OF THE CONTRACT, SUPPLEMENTAL GENERAL CONDITIONS AND INSTRUCTION TO BIDDERS, AIA, A/E/P OF THE SPECIFICATIONS, REFER TO THESE DOCUMENTS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

THE CONTRACTOR SHALL PAY ALL REQUIRED INSPECTION FEES AND SHALL INCLUDE THE COST OF SUCH FEES IN THE PROPOSAL.

PROVIDE INSURANCE, TEMPORARY UTILITIES, AND OTHER ITEMS NECESSARY FOR CONTRACT AS INDICATED IN THE GENERAL CONDITIONS OR AS DIRECTED BY THE OWNER.

BOD HAS ARE RESPONSIBLE FOR OBTAINING EACH ISSUED BOD, NAME AND TO INCORPORATE THEM INTO THEIR PROPOSAL.

EACH BIDDER IS RESPONSIBLE FOR INCORPORATING ALL TERMINATE WHETHER IT BIDS ON NOT ON THE BID PROPOSAL FORM.

THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL OTHER CONTRACT DOCUMENTS FOR THE PROJECT INCLUDING OTHER TRADES' DRAWINGS, SPECIFICATIONS, AND SUBMITTALS. COMPLY AND INCLUDE ALL PROVISIONS FOR COMPLIANCE AS SHOWN OR INDICATED.

THE CONTRACTOR SHALL FURNISH ALL MATERIAL, LABOR, EQUIPMENT, AND PERFORM ALL OPERATIONS NECESSARY FOR THE INSTALLATION OF ALL CONDUITS, SYSTEMS AS SPECIFIED HEREIN AND AS INDICATED ON THE DRAWINGS.

THE TERM "PROVIDE" USED THROUGHOUT THE BID SPECIFICATIONS AND ON THE DRAWINGS SHALL MEAN FOR FURNISH, INSTALL, AND CONNECT WITH ALL RELATED HARDWARE, BOD FRAME, AND ACCESSORIES, FOR A COMPLETE INSTALLATION READY FOR USE.

MODIFICATIONS: MINOR CHANGES IN OUTLET LIGHT FIXTURE, AND EQUIPMENT LOCATIONS SHALL BE MADE AT ANY TIME PRIOR TO ROUGHING IN OF THE ELECTRICAL WORK WITHOUT ANY ADDITIONAL COST TO THE OWNER.

NOTIFY INSPECTORS: THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE ELECTRICAL INSPECTOR, FIRE MARSHAL, AUTHORITY HAVING JURISDICTION, AND THE ENGINEER TO BOND DULE REQUIRED INSPECTIONS.

SITE CONDITIONS: IT SHALL BE THE DUTY OF THE PROSPECTIVE CONTRACTOR TO VISIT THE JOB SITE AND RECEIVE FAMILIARITY WITH THE PROJECT CONDITIONS PRIOR TO BID. EVIDENT JOB CONDITIONS THAT ARE NOT INDICATED ON THE DRAWINGS SHALL BE INCLUDED IN THE CONTRACTOR'S BID. THERE ARE NO QUESTIONS TO THE ENGINEER A MINIMUM OF 10 DAYS PRIOR TO BID.

CONTRACT SUPERVISOR: THE CONTRACTOR SHALL ASSIGN AND MAINTAIN A SINGLE QUALIFIED PERSON AS THE JOB SUPERVISOR, NOT ON THIS PROJECT.

QUALIFIED PERSONNEL: THE CONTRACTOR SHALL PROVIDE ADEQUATE MANPOWER AS REQUIRED TO MEET THE SCHEDULE. THIS INCLUDES QUALIFIED ELECTRICIANS AND AN CHANGE THAT ARE LICENSED BY THE PROPER AUTHORITIES AND ARE SKILLED IN THE INSTALLATION OF THIS TYPE OF WORK. WORKMANSHIP SHALL BE OF THE HIGHEST GRADE AND FIRST CLASS IN EVERY RESPECT.

ARRANGE WORK TO AVOID CUTTING THE WORK OF OTHER TRADES. WHEN CUTTING IS UNAVOIDABLE, COORDINATE WITH THE OTHER TRADES FIRST TO PREPARE TO MATCH.

TO AVOID WEAKENING THE STRUCTURAL, DO NOT CUT STRUCTURAL MEMBERS WITHOUT WRITTEN APPROVAL FROM THE STRUCTURAL ENGINEER AND THE GENERAL CONTRACTOR.

FURNISH, PLACE AND GROUT ANCHORS IN PLACE PIPE SLEEVES FOR ELECTRICAL WORK IN REINFORCED BAND PARTITIONS.

SEAL APPROPRIATE AROUND ALL CONDUITS, CABLES, BOXES, ETC. THAT ARE PUT THROUGH ALL RATED WALLS, PARTITIONS, AND CEILINGS. USE FIRE RESISTANT CAULK AND PUTTY TO ALL PIPES, BOXES, PUTTY FOR CONDUITS, AS SHOWN AND APPLICABLE AROUND PENETRATIONS THROUGH RATED WALLS, PARTITIONS, CEILING, ETC.

ELECTRICAL AND OTHER EQUIPMENT AND/OR MATERIALS THAT ARE DEFECTIVE, OR THAT ARE DAMAGED IN THE COURSE OF CONSTRUCTION, SHALL BE REMOVED AND REPLACED BY THE CONTRACTOR AT THEIR EXPENSE.

DEPARTURES AND/OR DEVIATIONS FROM THE DRAWINGS AND SPECIFICATIONS SHALL BE REQUESTED IN WRITING BY THE CONTRACTOR FROM THE ENGINEER OR PRIOR SUBMITTAL DEVIATIONS SHALL NOT BE MADE WITHOUT WRITTEN APPROVAL FROM THE ENGINEER.

SUBMITTALS:

SUBMIT 4 COPIES OF SUBMITTAL DATA FOR ALL MATERIALS AND EQUIPMENT THAT ARE TO BE INSTALLED ON THIS PROJECT, UPON APPROVAL BY THE ENGINEER, 2 COPIES WILL BE RETURNED. ELECTRONIC SUBMITTALS ARE ALSO ACCEPTABLE.

PRIOR TO SUBMITTING INFORMATION, THE CONTRACTOR SHALL REVIEW INFORMATION TO ENSURE IT COMPLIES WITH THE CONTRACT DOCUMENTS AND ALL APPLICABLE CODES. THE CONTRACTOR SHALL NOT SUBMIT DATA UNTIL IT COMPLIES.

STAMP ALL SUBMITTAL DATA AND SHOP DRAWINGS AS "APPROVED" ONCE THE DATA COMPLIES INDICATING FULL COMPLIANCE WITH THE DRAWINGS AND SPECIFICATIONS. SHOP DRAWINGS AND SUBMITTAL DATA WILL NOT BE REVIEWED WITHOUT THE "APPROVED" STAMP.

SUBMITTAL DATA AND SHOP DRAWINGS SHALL CLEARLY INDICATE WHICH PIECES OF EQUIPMENT ARE TO BE INSTALLED ON THIS PROJECT. DATA SHALL INCLUDE: 4 COPIES OF SUPPLIER'S RECORDS REGARDING FOR ACCESS AND MAINTENANCE. MAINTENANCE SERVICES AS REQUIRED BY THE MANUFACTURER AND CODE, AND ALL OTHER INFORMATION CONSISTENT OF THIS PARTICULAR PROJECT. ALL SHOP DRAWINGS SHALL BE SUBMITTED AT THE SAME TIME AND AS SOON AS POSSIBLE AFTER AWARD OF CONTRACT.

MATERIALS AND EQUIPMENT SHALL NOT BE PLACED ON THE JOB SITE, OR INSTALLED WITHOUT PRIOR APPROVAL BY THE ENGINEER.

RECORD DRAWINGS:

THE CONTRACTOR SHALL MAINTAIN A SET OF RECORD DRAWINGS THROUGHOUT CONTRACT OFFER AND SHALL UPDATE THE SURVEY.

MARK THE DRAWINGS WITH ALL DEVIATIONS SHOWING THE AS-BUILT CONDITIONS, INCLUDE, PLUMBING FOR ALL SCHEDULES AS WELL AS THE VISIBLE LOCATIONS OF ALL BOXES, CONDUITS, PANELBOARDS, EQUIPMENT, BOXES, WALLS, ETC.

SUBMIT 2 COPIES OF THE MARKED UP RECORD DRAWINGS SHOWING THE AS-BUILT CONDITIONS TO THE ENGINEER WHEN CONSTRUCTION IS COMPLETE OR AS DIRECTED BY THE ENGINEER.

CODES AND STANDARDS:

THE ENTIRE INSTALLATION SHALL COMPLY WITH ALL REQUIREMENTS, LAWS, ORDINANCES, REGULATIONS, THE NATIONAL ELECTRICAL CODE, REFERENCED STANDARDS, THE OWNER'S GUIDELINES, THE NORTH CAROLINA STATE BUILDING CODE, AND OTHER CODES APPLICABLE TO THIS PROJECT. EQUIPMENT SHALL BE INSTALLED PER THE MANUFACTURER'S INSTRUCTIONS AS REQUIRED BY THE NEC.

MATERIAL SHALL BE LISTED IN THIS CONTRACT SHALL CONFORM TO THE STANDARDS LISTED HEREIN WHERE SUCH STANDARDS ARE APPLICABLE, AND SHALL BE NEW AND FREE FROM DEFECTS IN ALL RESPECTS.

AECC	AMERICAN ASSOCIATION OF EDISON ILLUMINATING COMPANIES
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE STANDARDS
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
ASHRAE/IES	BOILER AND PRESSURE VESSEL CODE
BOCA	BUILDING OFFICIALS CODE ADMINISTRATORS
CBM	CLASS B LIGHT MANUFACTURER'S STANDARDS
EEI	EDISON ELECTRICAL INSTITUTE
ETL	ELECTRICAL TESTING LABORATORIES STANDARDS
ICEA	INSULATED CABLE ENGINEERS ASSOCIATION ICC
IBPC	INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS
IES	INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS
NCCM	NORTH CAROLINA CONSTRUCTION MANUAL WITH GENERAL STATUTES
NCBC	NORTH CAROLINA STATE BUILDING CODE
NEC	NATIONAL ELECTRICAL CODE
NECA	NATIONAL ELECTRICAL CONTRACTOR ASSOCIATION
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NESC	NATIONAL ELECTRICAL SAFETY CODE
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NEIB	NATIONAL ELECTRICAL INSTALLATION STANDARDS
UL	UNDERWRITERS LABORATORIES, INC
OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
SBCCI	SOUTHERN BUILDING CODE CONGRESS INTERNATIONAL
TCLP	TOXICITY CHARACTERISTIC LEACHING PROCEDURE

ELECTRICAL DEMOLITION:

DISCONNECT AND REMOVE EXISTING EQUIPMENT AND/OR DEVICES AS INDICATED ON THE DRAWINGS OR AS REQUIRED TO ACCOMMODATE CONSTRUCTION AS NEW CONNECTIONS OR CONDUIT COMPLETELY BACK TO THE SOURCE WITHOUT CREATING ADDITIONAL DEMOLITION OR REPAIR WORK ON OTHER FINISHES.

WHEN EXISTING CIRCUITS ARE INTERRUPTED BY DEMOLITION, RUN ARC TO REMAIN IN BUNDLE, REWORK AND RE-INSTALL CIRCUITS AS REQUIRED.

TURN ANY DESIGNATED MATERIAL OVER TO THE OWNER AS DIRECTED. REMOVE AND DISPOSE OF MATERIAL ACCORDING TO APPLICABLE LAW THAT IS NOT TO BE TURNED OVER TO THE OWNER.

PATCH SURFACES TO MATCH AND PROVIDE COVER PLATES WHERE DEVICES REMAIN AND ARE MADE SPARE.

WIRING METHODS:

RUN ALL WIRING FOR LIGHTING, POWER AND ALL OTHER SYSTEMS AND/OR, SUBPANELS OR DEVICES AND OVERHEAD IN EMT CONDUIT WITH STEEL COMPRESSION TYPE FITTINGS. NO CABLE IS ACCEPTABLE. WIRE IS REQUIRED BY THE NEC.

FOR CONNECTIONS TO MOTORS USE LIQUID TIGHT FLEXIBLE CONDUIT.

SUPPORT AND ATTACH ALL CONDUITS, BOXES, ETC. ABOVE, CEILING WITH APPROVED HANGERS AND CLAMPS AS REQUIRED BY CODE. DO NOT SUPPORT CONDUITS OR CABLES FROM UNDERPAN, PIPING AND PARTS OF CEILING TILES OR CEILING SUPPORT SYSTEM. PROVIDE SUPPLEMENTARY STEEL SUPPORTS BETWEEN JOISTS OR AND PURLINS AND TRUSSES. WIRE TYPE DRIPLINE CLIPS HANGERS WILL NOT BE PERMITTED.

PROVIDE NEW TYPE D CIRCUIT NOLS FOR ALL NEW AND EXISTING PANELS AND EQUIPMENT, SHOWING ALL CIRCUIT DESIGNATIONS AND USING ROOM NAME & EQUIPMENT AND AND AS SHOWN.

PROVIDE PROPER GROUNDING FOR ALL RECEPTACLES, LIGHTS, EQUIPMENT, ETC AS REQUIRED BY CODE. WHERE THERE IS NO GROUNDING CONDUCTOR FOR EACH NEW LIGHT, RECEPTACLE, AND PANEL OR EQUIPMENT AROUND THE BUILDING, SIZE OF CONDUCTORS SHALL BE AS SHOWN, BUT SHALL NOT BE SMALLER THAN #12 IF NOT INDICATED, SIZE, IN ACCORDANCE WITH CODE.

ALL WIRING DEVICES SHALL BE PERMANENTLY AND SUPPLY CONNECTED TO THE ENCLOSURE AND HAVING GROUNDING BUSHING IN WHICH THEY ARE MOUNTED WITH A COPPER GROUNDING JUMPER.

ALL WIRING SHALL BE COPPER WITH THWN/THWN INSULATION. TEMPERATURE RATINGS OF WIRE, INSULATION SHALL NOT EXCEED THE TEMPERATURE RATING OF CIRCUIT BREAKERS, LUGS, CONNECTIONS, ETC. IF WIRE WITH INSULATION TEMPERATURE RATING IS USED, IT SHALL BE DERATED TO THE TEMPERATURE RATING OF EQUIPMENT TO WHICH IT IS CONNECTED.

WIRE MARKERS AROUND THE CONDUCTOR SHALL BE NON METALLIC PERMANENT TYPE, AS MANUFACTURED BY THE BRADY OR APPROVED EQUAL.

SPLICING (EXCLUDES OF WIRE VOLTS OR LESS): SOLID CONDUCTORS, NAMELY THOSE, SOLID AWG COPPER AND SMALLER, SHALL BE SPLICED BY USE OF KEN-TIE, "WIRE-NUT", 3M CO. "SCOTCHLOK", OR TAP "PIGGY" CONNECTORS "STRAIGHT" OR OTHER PERMANENT TYPE COMPRESSION BUSHING WILL NOT BE USED.

STRANDED CONDUCTORS, NAMELY #8 AWG AND LARGER, SHALL BE SPLICED BY APPROVED MECHANICAL COMPRESSION BUSHING TAPE PLUG HEAT BOND PLASTIC TAPE, SOLDER USE MECHANICAL CONNECTORS FOR SPLICES AND TAPS. PREMADE METALLIC APPROVED HOLLOW AND COVERS MAY BE USED INSTEAD OF MECHANICAL CONNECTOR PLUS TAPE.

CONNECTIONS BY ALL DEVICE SHALL BE CONTINUOUS FROM DEVICE TO OUTLET AND NO SPLICING SHALL BE MADE. USE EMT WITH PULLEY OR JUNCTION BOXES, TROUGHS AND GUTTERS.

ALL WIRE CABLE ETC SHALL BE APPROVED BY THE UNDERWRITERS LABORATORIES, INC.

ALL BRANCH CIRCUIT CONDUCTORS SHALL BE FACTORY COLOR CODED AND ALL OTHER CONDUCTORS SHALL BE COLOR TAPED IN ANY MANNER THROUGHOUT THE BUILDING TO INDICATE VARIOUS PHASES AND NEUTRAL.

COLOR CODING FOR CONDUCTORS SHALL MATCH EXACTLY THE CODING OF EXISTING SYSTEMS. IN GENERAL THE COLOR CODING FOR SYSTEMS OF LESS THAN 150 VOLTS TO GROUND SHALL BE BLACK, RED OR YELLOW FOR PHASES A B C. IN SPECIFICALLY WIRES FOR GROUNDED SYSTEMS, AND GREEN FOR EQUIPMENT GROUNDING. FOR 277/480V, 3 PHASE, 4 WIRE POWER SYSTEMS CONDUCTORS SHALL BE COLOR CODED BROWN PHASE A, ORANGE PHASE B, YELLOW PHASE C, GRAY (NEUTRAL) AND GREEN (GROUND) WIRE.

FLUSH MOUNTED OR GROUNDED TYPE CONVENIENCE OUTLETS SHALL BE BROKEN GROUNDED TO METAL CONDUIT SYSTEM AND BONDING GROUNDING STRIP IN THE GROUNDING SCREW AND GREEN COLORED INSULATED CONDUCTOR. ELECTRICAL CONNECTIONS SHALL BE MADE FROM GROUNDING SCREW TO METAL BOX COVER METAL OUTLET WITH GREEN COLOR CODED CONDUCTOR.

OUTLET BOXES FOR LIGHTING AND APPLIANCE CIRCUITS, WHERE CONCEALED SHALL BE STAMPED STEEL, GALVANIZED OR CADMIUM PLATED. EXPOSED COVERS SHALL BE STAINLESS STEEL, OF THE SIZE REQUIRED TO DOWN THE FITTING, WALL OPENING.

OUTLET BOXES FOR EXPOSED ON SURFACE MOUNTED WORK SHALL BE CAST TYPE OR WITH TAPPED COVER SURFACE PLATE OF SAME MANUFACTURER AS THE BOX, AND MATCHING THE OUTLINE OF THE BOX.

LIGHTING:

LIGHTING FIXTURE SHALL BE AS SCHEDULED ON THE DRAWINGS.

SUPPORT: LAY IN FIXTURES SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE AT LEAST 4 CORNERS PER THE INSTALL.

PAINTING AND FINISHING:

CLEAN ALL CONDUITS, HANGERS, SUPPORTS, PANELS, DEVICES, LIGHTS, AND OTHER ELECTRICAL EQUIPMENT.

WHERE INSTALLED IN FINISHED AREAS, EXPOSED CONDUIT WITH RIGHT WAYS, PANEL CENTERS, ETC. SHALL BE SUPPLIED WITH A PRIME COAT AND SHALL BE PROPERLY PAINTED OR ENAMELIZED DIRECTED TO MATCH OR BLEND WITH ADJACENT SURFACES.

IN UNFINISHED AREAS SUCH AS EQUIPMENT ROOMS, EXPOSED EQUIPMENT SHALL BE FURNISHED WITH A SUITABLE FACTORY APPLIED FINISH.

EQUIPMENT FURNISHED IN FINISHED SUCH AS STAINLESS STEEL, BRUSHED ALUMINUM, ETC. SHALL NOT BE PAINTED.

ALL FINISHING SHALL BE AS DIRECTED BY AND SATISFACTORY TO THE OWNER'S REPRESENTATIVE.

TOUCH UP ALL DAMAGED AND SCRATCHED SURFACES ON FACTORY FINISHED EQUIPMENT AND WALLS WITH PAINT OF SAME TYPE AND COLOR.

TESTING:

ALL TESTS SHALL BE DOCUMENTED INDICATING THE TIME OF DAY, DATE, RUN NATURE, AND ALL PERTINENT DATA OF INFORMATION. SUBMIT TO THE ENGINEER PRIOR TO FINAL ACCEPTANCE OF THE PROJECT.

1. TEST ALL COPPER WITH CARRYING PHASE CONDUCTORS AND NEUTRALS IN ONE CONDUIT FOR SHORT CIRCUIT, GROUND FAULT, AND DISTANCE AND ACCIDENTAL GROUNDS. THIS SHALL BE DONE WITH A 500 VOLT MEGGER MINIMUM, ACCORDING TO:
   1.A 1,000 OHMS MORE OHMS FOR 48 AND WIRE, AND SMALLER
   1.B 250,000 OHMS OR MORE, FOR 6 AWG OR LARGER BETWEEN CONDUCTORS AND AND THE CONDUCTORS AND THE GROUNDING CONDUCTOR.
2. AFTER EQUIPMENT, FIXTURES, AND DEVICES ARE INSTALLED AND CONNECTED AND, DISMANTLE TO EACH PANEL, DISCONNECT THE NEUTRAL FROM EACH CONDUCTOR FROM THE NEUTRAL BAR AND CARRY A MEGGER FOR THE NEUTRAL BAR AND THE GROUNDED CONDUCTOR, THE MINIMUM READING SHALL BE:
   2.A 250,000 OHMS OR MORE
   2.B IF THE READING IS 250,000 OHMS OR LESS, DISCONNECT THE BRANCH CIRCUIT NEUTRAL CONDUCTORS FROM THE NEUTRAL BAR AND TEST EACH CIRCUIT SEPARATELY. CONNECT ANY EQUALS, RECONNECT, AND RETEST UNTIL 250,000 OHMS OR MORE, CAN BE ACHIEVED.

WARRANTY:

GUARANTEE ALL MATERIALS, EQUIPMENT, AND WORKMANSHIP FOR ONE YEAR. THE GUARANTEE PERIOD SHALL BE AS LIMITED IN THE CONTRACT AND SHALL BE ADJUSTED UPON BY THE OWNER IN WRITING UPON COMPLETION OF THE WORK.

FOR A 1 YEAR OR ONE YEAR AFTER ACCEPTANCE, THE CONTRACTOR SHALL REPLACE, WITHOUT ANY EXPENSE TO THE OWNER, ANY DEFECTIVE MATERIALS OR WORKMANSHIP. THIS INCLUDES CUTTING AND PATCHING WHICH MAY BE REQUIRED.

MISC.:

ALL CABLES, CONNECTORS, OR WIRES, ETC. SHALL BE PLENUM RATED.

ELECTRICAL SYMBOL SCHEDULE

Dept Wide Electric

GENERAL

- ELECTRICAL PANEL BOARD 208/120V
- BRANCH CIRCUIT HOME RUN - LETTERS AND NUMBERS INDICATE PANEL DESIGNATION AND CIRCUIT NUMBER. ARROWS INDICATE NUMBER OF CIRCUITS UNLESS OTHERWISE NOTED. EQUIPMENT GROUNDING CONDUCTORS SHALL BE INCLUDED IN ALL RUNS OF CONDUIT PROVIDE BETWEEN FIXTURES.
- BRANCH CIRCUIT CONDUIT INSTALLED CONCEALED IN WALLS AND ABOVE CEILINGS UNLESS OTHERWISE NOTED OR REQUIRED BY SITE CONDITIONS.
- BRANCH CIRCUIT CONDUIT INSTALLED UNDER FLOOR SLAB OR UNDERGROUND
- CONDUIT AND WIRE TURNING TOWARD OBSERVER
- CONDUIT AND WIRE TURNING AWAY FROM OBSERVER

LIGHTING

- RECESSED, SURFACE, OR WALL MOUNTED LIGHTING FIXTURE CONNECTED TO NORMAL BRANCH CIRCUIT. LETTER INDICATE WALL INDICATE TYPE. SEE LIGHTING FIXTURE SCHEDULE FOR REQUIREMENTS.
- RECESSED, SURFACE, OR WALL MOUNTED LIGHTING FIXTURE CONNECTED TO LIFE SAFETY BRANCH CIRCUIT. LETTER/NUMBER INDICATE TYPE. SEE LIGHTING FIXTURE SCHEDULE FOR REQUIREMENTS.
- LIGHTING FIXTURE WITH LETTERS "LR" OR "EM" INDICATE EXISTING TO REMAIN
- CEILING MOUNTED EXIT SIGN. SHADED AREA INDICATES FACE. ARROWS AS DIRECTED ON PLANS. CONNECT UNSWITCHED TO LOCAL BRANCH CIRCUIT.
- WALL MOUNTED EXIT SIGN. SHADED AREA INDICATES FACE. ARROWS AS DIRECTED ON PLANS. CONNECT UNSWITCHED TO LOCAL BRANCH CIRCUIT.
- EMERGENCY EGRESS LIGHTING FIXTURE CONNECTED TO UNSWITCHED LOCAL CIRCUIT
- SINGLE POLE TOGGLE SWITCH 120/277V, 20A, INDR, HEAVY DUTY SPECIFICATION GRADE, FLUSH MOUNTED SPECIFICATION GRADE, COORDINATE WITH OWNER. SUBSCRIPTS "P" INDICATE SWITCH WAY BREAKER, "N" INDICATE NEUTRAL, "S" INDICATE SWITCH, "3" THREE WAY, "4" FOUR WAY SWITCH, AND "D" DIMMER SWITCH. MOUNT IN A SINGLE GANG OR MULTI GANG ENCLOSURE AS REQUIRED. FINISHED FLUSH UNLESS OTHERWISE NOTED OR REQUIRED BY SITE CONDITIONS. MOUNT TO LIGHT IN FINISHED SPACES AND SURFACE IN UNFINISHED SPACES.

POWER

- DUPLEX, FEDERAL SPECIFICATION (WIRED) 20 AMP GROUNDING TYPE RECEPTACLE WITH NORMAL COLOR COMPONENTS, COORDINATE WITH OWNER. MOUNT VERTICALLY IN A SINGLE GANG ENCLOSURE, UNLESS OTHERWISE NOTED. OR AS NOTED ON DRAWINGS. "WP" INDICATES WEATHERPROOF GASKETED DUST METAL ENCLOSURE. "EWC" INDICATES RECEPTACLE FOR ELECTRIC VEHICLE CHARGING STATION. "GFI" INDICATES RECEPTACLE WITH GROUND FAULT INTERRUPTER FOR 120 VOLTS. MOUNT FLUSH IN FINISHED SPACES AND SURFACE IN UNFINISHED SPACES.
- DOUBLE DUPLEX, FEDERAL SPECIFICATION (WIRED) 20 AMP RECEPTACLE IN FINISHED GANG ENCLOSURE. MOUNT FLUSH IN FINISHED SPACES AND SURFACE IN UNFINISHED SPACES.
- DUPLEX, FEDERAL SPECIFICATION (WIRED) 20 AMP GROUNDING TYPE RECEPTACLE WITH NORMAL COLOR AND BRASS PLATE. MOUNT IN A SINGLE GANG ENCLOSURE. MOUNT 12" ABOVE FINISHED FLOOR OR 4" ABOVE COUNTER, BACKSPLASH, OR COUNTER TOP UNLESS OTHERWISE NOTED. OR INDICATED RECEPTACLE WITH GROUND FAULT INTERRUPTER TO FIT INTO SIMILAR STANDARD OUTLET BOX. MOUNT FLUSH IN FINISHED SPACES AND SURFACE IN UNFINISHED SPACES.
- EQUIPMENT CONNECTION - NO INDICATE & HANDCOVER
- JUNCTION BOX WITH BLANK COVER PLATE. IN GENERAL, INSTALLED ABOVE SUSPENDED CEILINGS. IN OTHER LOCATIONS, MOUNT AS REQUIRED OR NOTED. INSTALL IN CLEAR DUCTWORK, PIPING, ETC. TO MAKE BOXES ACCESSIBLE. INSTALL JUNCTION BOXES PER NEC

TELECOMMUNICATIONS

- TELEPHONE/DATA OUTLET. PROVIDE 1" CONDUIT TO ABOVE ACCESSIBLE CEILING. PROVIDE INSULATED BUSHING ON CONDUIT ENDS.

SECURITY

- CARD READER. PROVIDE 3/4" CONDUIT TO ABOVE ACCESSIBLE CEILING ON SECURE SIDE OF DOOR AND BUSH. PROVIDE ALL NECESSARY PATHWAYS FOR ACCESS CONTROL CONNECTIONS TO DOOR, WALL, OR DOOR. COORDINATE WITH DOOR HARDWARE, SUPPLIER AND OWNER'S IT OR VOICE CONTRACTOR.

FIRE ALARM

- CEILING MOUNTED SMOKE DETECTOR. MOUNT FLUSH IN CEILING
- S CEILING MOUNTED STROBE. WHITE IN COLOR. NUMERAL INDICATES CANDELA RATING. MOUNT FLUSH IN CEILING
- FIRE MANUAL PULL STATION AND SPEAKER/STROBE UNIT MOUNTED IN SINGLE LOCATION

LIGHTING FIXTURE SCHEDULE

WHERE NOTED OTHERWISE

SYMBOL	MANUFACTURER	CATALOG NO	VOLTS	LAMPS NO	LAMPS TYPE	LAMP/BALLAST INPUT WATTS	MOUNTING	DESCRIPTION
A	ALPHALITE OR EQUAL	FPL 3-4W-835	120/277	4	LED 4000 LUMENS 3500°K, 80+ CRI	30	RECESSED IN GRID	2x4 LED FLAT PANEL LED FIXTURE WITH 0-10V DIMMING
B	PHILLIPS OR EQUAL	MRK-WL-S30-MV-Q14-EWPO-175-DD-BK	120/277	1	LED 3000 LUMENS 3500°K, 80+ CRI	39	WALL MOUNT BOSTON OR EQUAL	EXTERIOR LED WALL SCONCE WITH TYPE 4 DISTRIBUTION BLACK FINISH AND INTERNAL 4W EMERGENCY COLD WEATHER BATTERY PACK. CONTROL WALL PHOTOCELL
C	ALPHALITE OR EQUAL	TP-G-4-W-9-W-SD	120/277	1	LED	7.5	WALL MOUNTED	COMPACT FIXTURE WITH BATTERY, RED LETTERS AND WHITE HOUSING

EXHIBIT C

ELECTRICAL DRAWING INDEX

E1.1	NOTES AND SCHEDULES
E1.1	PARTIAL FIRST FLOOR DEMOLITION PLAN
E1.2	PARTIAL FIRST FLOOR ELECTRICAL PLAN

SKA CONSULTING ENGINEERS
GREENSBORO, NC
HEADQUARTER OFFICE
ASHEVILLE, NC
CHARLESTON, SC
CHARLOTTE, NC
CHARLOTTESVILLE, VA
WILMINGTON, NC

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Project Number: 18-0-0
Issue Date: 09/28/2018
Revised: 10/29/2018

SEAL

Revisions	Date

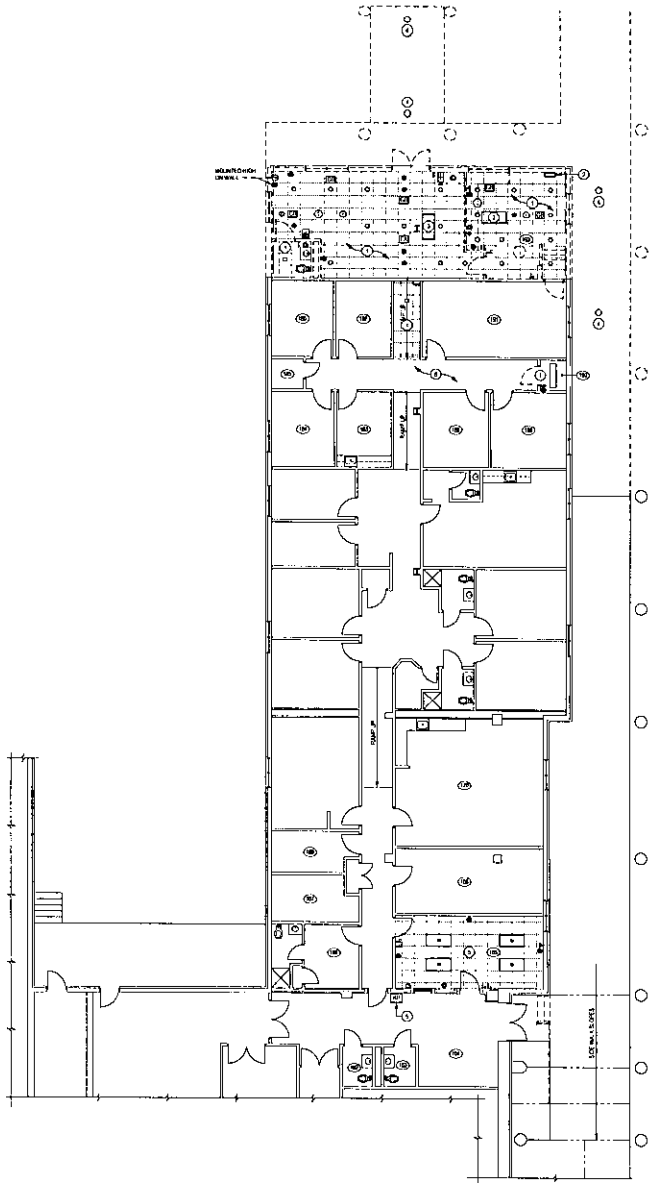
DESIGNATION AND RENOVATION FOR
GUILFORD COUNTY MENTAL CLINIC
201 S. EUGENE STREET GREENSBORO, NORTH CAROLINA

NOTES AND SCHEDULES

Designed By	MHC
Drawn By	MHC
Checked By	TJW
Date	11.30.2018

E1.1

EXHIBIT C



1 / E2.1 PARTIAL FIRST FLOOR DEMOLITION PLAN

1/8" = 1'-0"

GENERAL DEMOLITION NOTES

1. DEMOLITION DRAWINGS ARE BASED ON OBSERVED EXISTING FIELD CONDITIONS AND AVAILABLE INFORMATION FROM EXISTING DRAWINGS. DEMOLITION DRAWINGS WERE REVIEWED ONLY TO ASSIST THE ELECTRICAL CONTRACTOR IN GAINING AN UNDERSTANDING OF THE SCOPE OF WORK AND NOT FOR QUANTITIVE ELECTRICAL WORK. ED DEMOLITION DRAWINGS ARE NOT INTENDED TO BE INCLUSIVE OF THE WORK REQUIRED TO BE COMPLETED BY THE ELECTRICAL CONTRACTOR.
2. THE ELECTRICAL CONTRACTOR SHALL ATTEND A MANDATORY PRE-BID WALK-THROUGH AT THE PROJECT SITE PRIOR TO SUBMITTING A BID ON THIS PROJECT.
3. THE ELECTRICAL CONTRACTOR SHALL OBTAIN, STUDY, AND BE FAMILIAR WITH THE SCOPE OF WORK REQUIRED BY ALL OTHER TRADES. THIS INCLUDES, BUT IS NOT LIMITED TO, ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING, FIRE PROTECTION, AUDIO/VISUAL, ETC. IT IS THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO PROVIDE DEMOLITION AND RE-WORK AS REQUIRED TO ACCOMMODATE ALL OTHER TRADES' WORK THEY SPECIFICALLY SHOWN ON THE ELECTRICAL DEMOLITION DRAWINGS OR NOT.
4. WHERE ITEMS ARE SHOWN TO BE REMOVED, THE ELECTRICAL CONTRACTOR SHALL:
   a. DISCONNECT EXISTING EQUIPMENT OR DEVICES AND RE-MOVE THEM.
   b. REMOVE CONDUCTORS IN CONDUIT BACK TO SOURCE WHERE PHYSICALLY POSSIBLE UNLESS OTHERWISE NOTED. REMOVE CONDUCTORS BACK TO SOURCE AND ABANDON CONDUIT IN PLACE WHERE CONDUITS CAN NOT BE REMOVED.
   c. PATCH AND REPAIR ALL AS REQUIRED WHEN CIRCUITS AND ELECTRICAL WORK ARE INTERRUPTED BY DEMOLITION, BUT ARE TO REMAIN IN SERVICE.
   d. TURN OVER ANY DEMOLISHED MATERIAL TO THE OWNER AND DELIVER IT TO A LOCATION AS DIRECTED.
   e. REMOVE AND DISPOSE OF MATERIAL ACCORDING TO APPLICABLE LAW THAT IS NOT TO BE TURNED OVER TO THE OWNER.
   f. PATCH SURFACES TO MATCH AND PROVIDE COVER PLATES WHERE REQUIRED AND ARE MADE OPEN.
5. WHERE CIRCUITS ARE TO BE REMOVED OR REWORKED, CONDUCTORS IN CONDUIT MAY BE REUSED IF AVAILABLE AND IN GOOD CONDITION OTHERWISE, PROVIDE NEW PROPER AND EXTENDED IN CONDUITS AS REQUIRED.
6. SEE THE "FRONT-END" GENERAL SPECIFICATIONS FOR A GENERAL OVERALL SCOPE OF WORK.
7. THE BUILDING MUST REMAIN IN OPERATION THROUGHOUT DEMOLITION AND CONSTRUCTION. NOTIFY THE APPROPRIATE BUILDING PRIOR TO DISCONNECTING EQUIPMENT AND PRIOR TO DRAWING WORK THAT REQUIRES ANY TYPE OF POWER OUTAGE.

DEMOLITION NOTES

1. REMOVE EXISTING ELECTRICAL DEVICES IN THIS WORK UNLESS OTHERWISE NOTED. REMOVE LIGHTING AND POWER CONDUITS AND WIRING BACK TO NEAREST DEVICE OR BACK TO PANEL IF SIGNAL HOME RUN. REMOVE DATA CONDUIT AND CABLING BACK TO SOURCE.
2. EXISTING FIRE ALARM AND SECURITY CABINET TO BE RELOCATED. SEE E2.2 FOR NEW LOCATION. REMOVE ALL ASSOCIATED WIRING CABLING TO NEW LOCATION.
3. EXISTING MECHANICAL EQUIPMENT TO BE REMOVED BY MECHANICAL CONTRACTOR. REMOVE ALL ASSOCIATED CONDUIT AND WIRE BACK TO SOURCE.
4. EXISTING EXTERIOR CANOPY LIGHT TO BE REMOVED. REMOVE ALL CONDUIT AND WIRING BACK TO NEAREST DEVICE.
5. EXISTING ELECTRICAL DEVICES TO REMAIN.

SKA CONSULTING ENGINEERS
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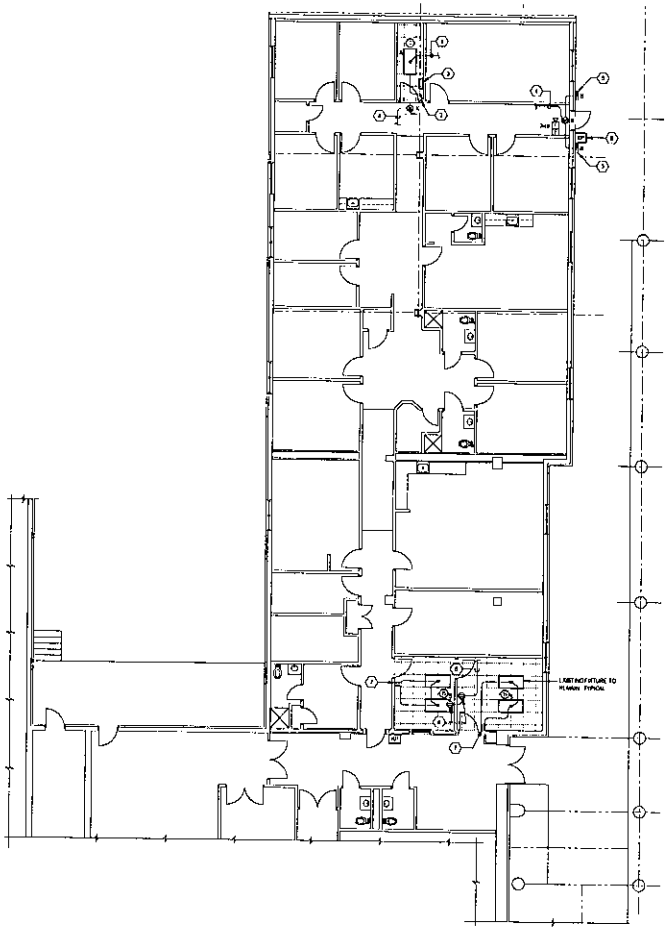
DEMOLITION AND RENOVATION FOR
GUILFORD COUNTY MENTAL CLINIC
DRESS ADDRESS: NORTH CLARK AVE
201 N. EUGENE STREET

PARTIAL FIRST FLOOR DEMOLITION PLAN

Designed by MHD
Drawn by MHD
Checked by TBM
Date 11.20.2014

E2.1

EXHIBIT C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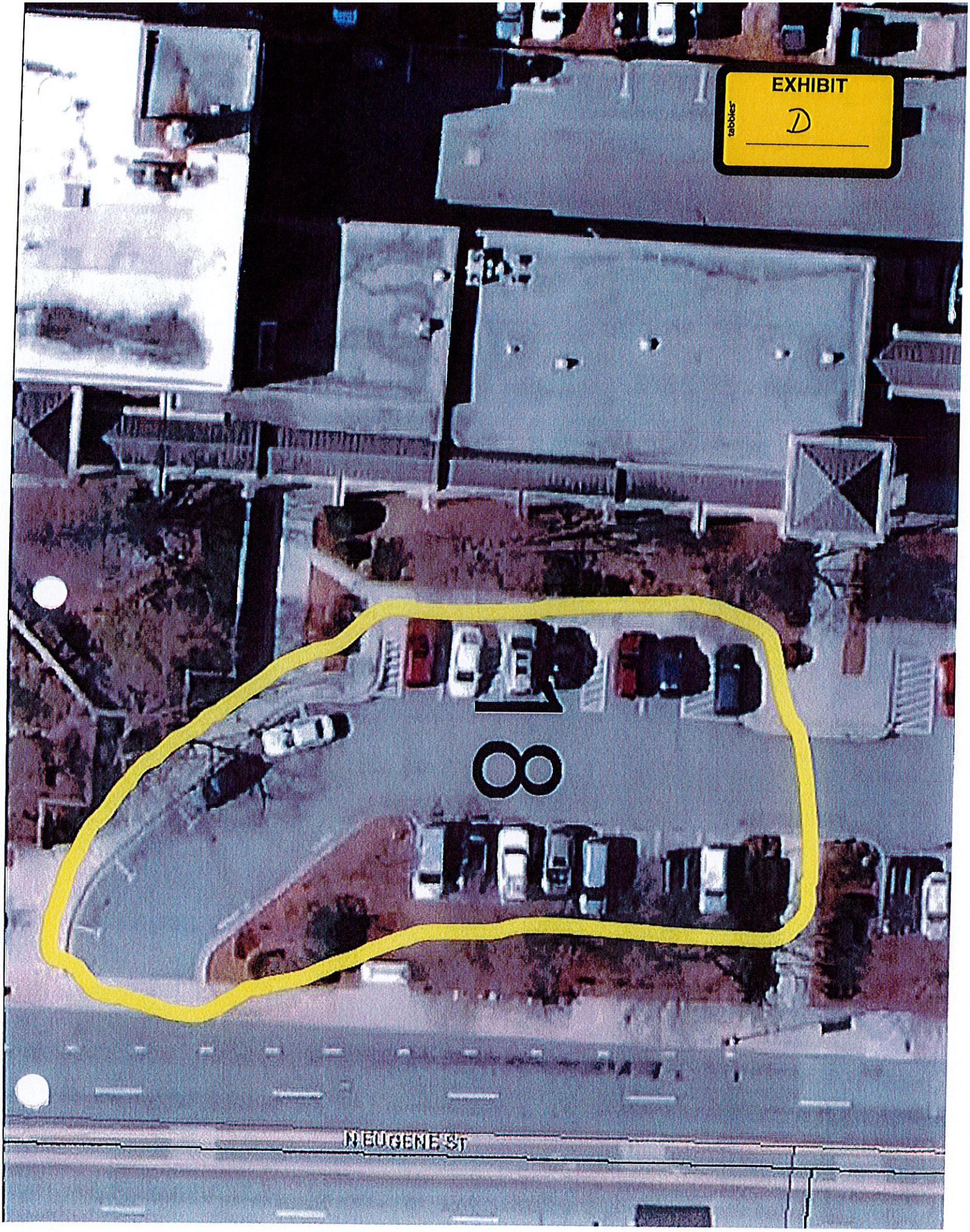


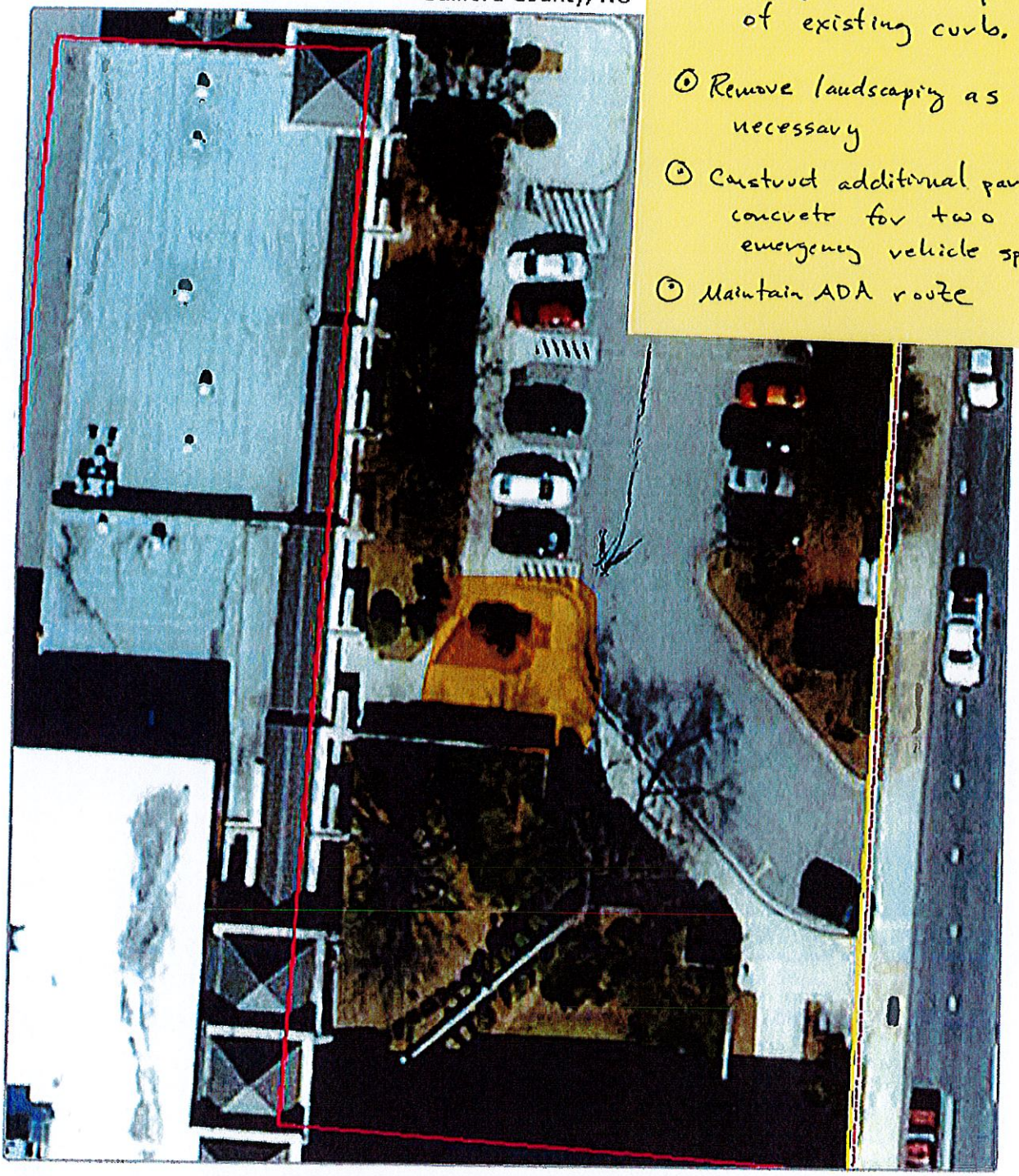
EXHIBIT
D
tabbies
N EUGENE ST

12-28-2018

Exhibit E

- Construct mountable or valley curb in place of existing curb.
- Remove landscaping as necessary
- Construct additional parking concrete for two emergency vehicle spaces.
- Maintain ADA route

Guilford County, NC



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Map Scale
1 inch = 29 feet
10/11/2018