

USC AIKEN GREENHOUSE

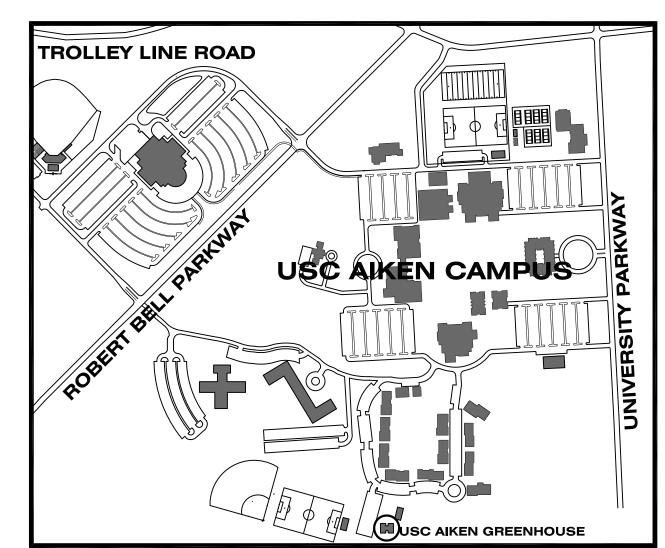
State Project #H29-I337 A/E Project #12036.01 **APRIL 12, 2013** CONSTRUCTION DOCUMENTS

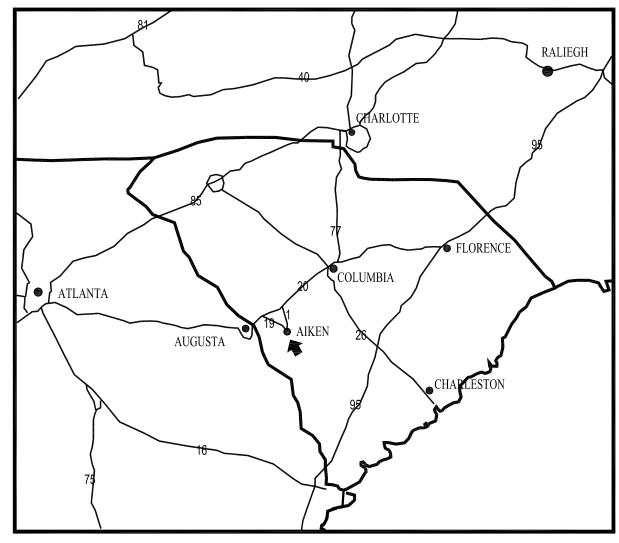
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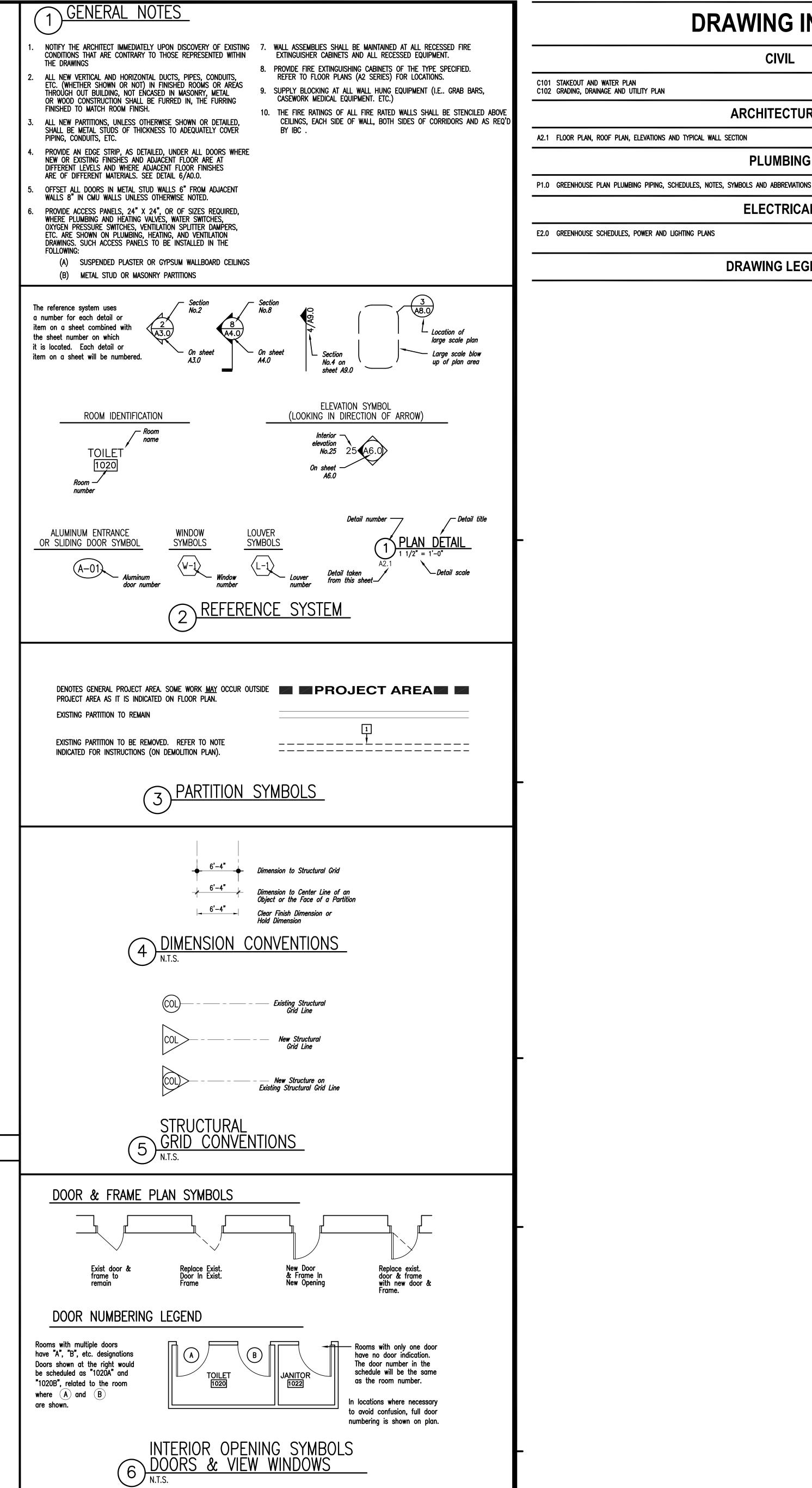


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LOCATOR MAPS







DRAWING INDEX

C101 STAKEOUT AND WATER PLAN C102 GRADING, DRAINAGE AND UTILITY PLAN

ARCHITECTURAL

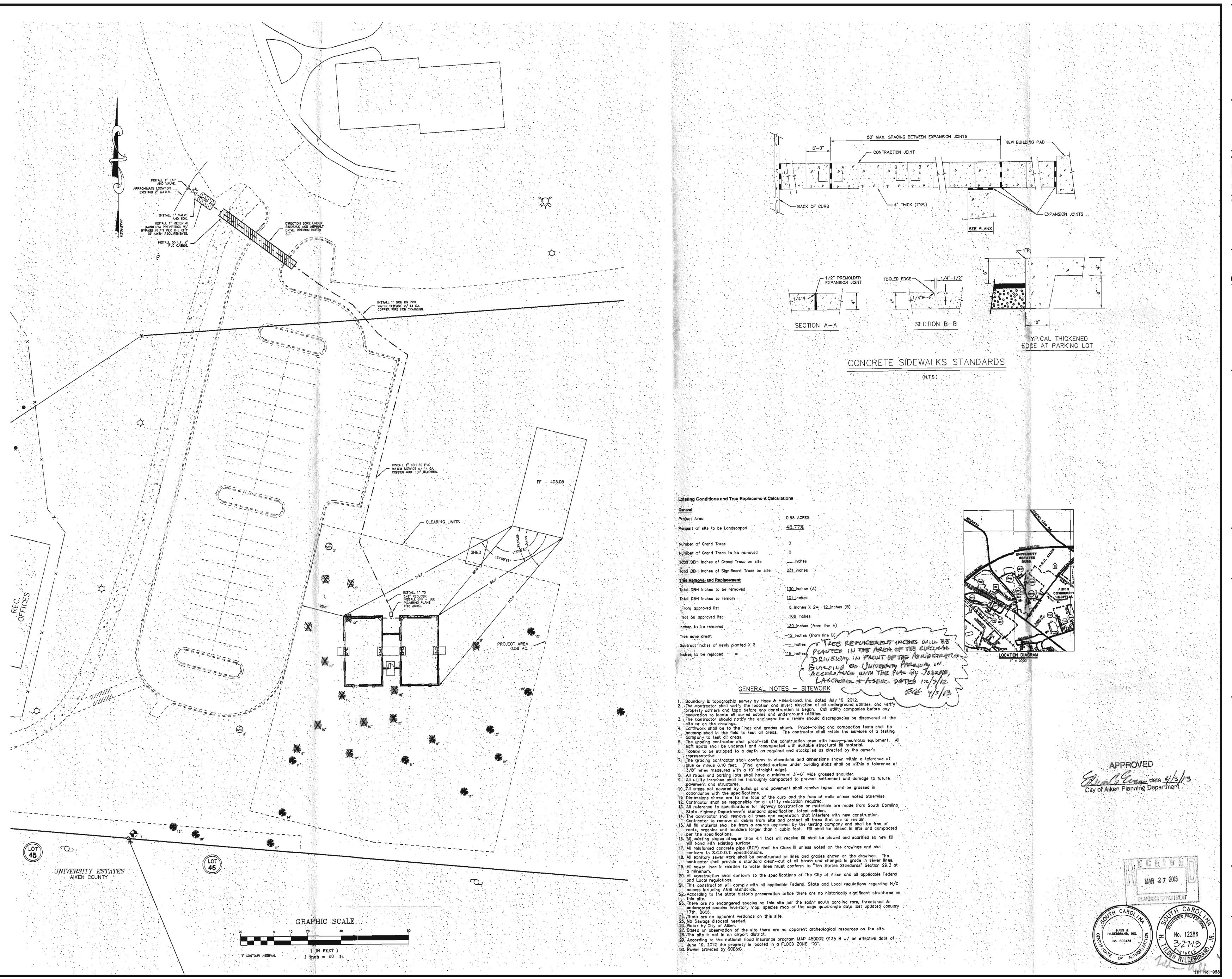
PLUMBING

ELECTRICAL

E2.0 GREENHOUSE SCHEDULES, POWER AND LIGHTING PLANS

DRAWING LEGEND

SET NO. ____



ASSOCIATES, INC.

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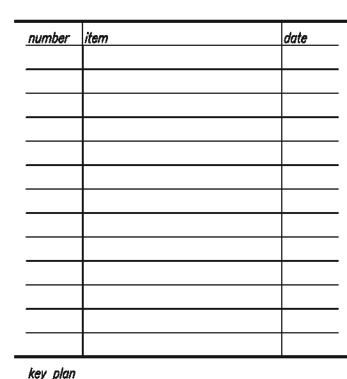
471 UNIVERSITY PARKWAY AIKEN, SOUTH CAROLINA 29801 **USC AIKEN GREENHOUSE** STATE PROJECT #H29-I337

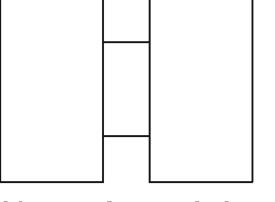
project number 12036.01

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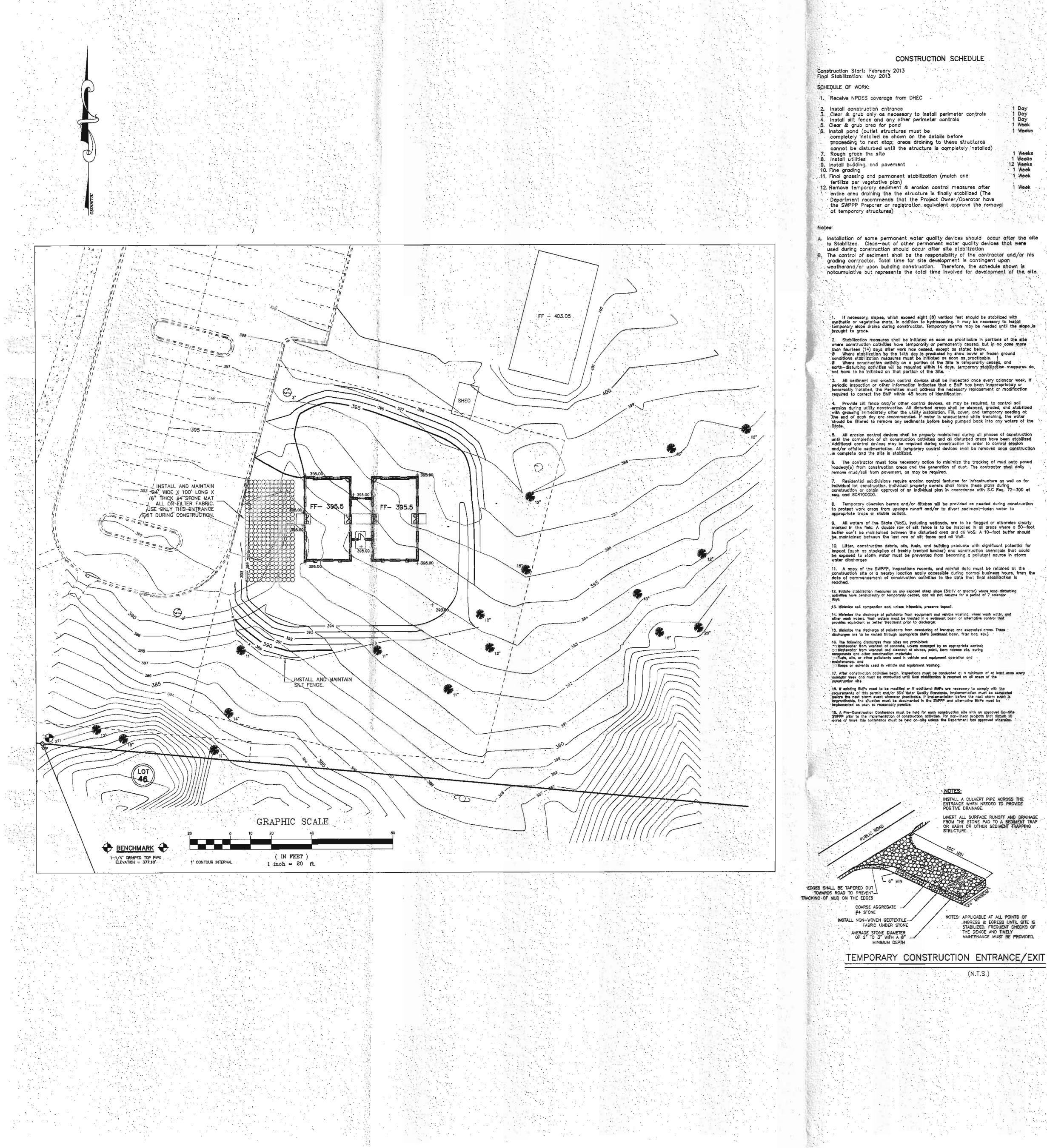
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STAKEOUT & WATER PLAN

sheet number

checked by HTH



CONSTRUCTION SCHEDULE

Day Day Week

Weeks

12 Weeks

1 Week

1. Receive NPDES coverage from DHEC

2. Install construction entrance 3. Clear & grub only as necessary to install perimeter controls 4. Install silt fence and any other perimeter controls

5. Clear & grub area for pond 6. Install pond (outlet structures must be completely installed as shown on the details before proceeding to next stop; areas draining to these structures

cannot be disturbed until the structure is completely installed) . 7. Rough grade the site 8. Install utilities 9. Install building, and pavement

.11. Final grassing and permanent stabilization (mulch and fertilize per vegetative plan) 12. Remove temporary sediment & erosion control measures after entire area draining the the structure is finally stabilized (The Department recommends that the Project Owner/Operator have

A. Installation of some permanent water quality devices should occur after the site is Stabilized. Clean-out of other permanent water quality devices that were used during construction should occur after site stabilization B. The control of sediment shall be the responsibility of the contractor and/or his grading contractor. Total time for site development is contingent upon weatherand/or upon building construction. Therefore, the schedule shown is notcumulative but represents the total time involved for development of the site.

1. If necessary, slopes, which exceed eight (8) vertical feet should be stabilized with synthetic or vegetative mats, in addition to hydroseeding. It may be necessary to install temporary slope drains during construction. Temporary berms may be needed until the slope is brought to grade.

2. Stabilization measures shall be initiated as soon as practicable in partions of the site where construction activities have temporarily or permanently caused, but in no case more than fourteen (14) days after work has ceased, except as stated below.

Where stabilization by the 14th day is precluded by show sover or frozen ground conditions stabilization measures must be initiated as soon as practicable.

Where construction activity on a portion of the Site is temporarily ceased, and earth—disturbing activities will be resumed within 14 days, temporary stabilization measures do. 'not have to be initiated on that portion of the Site.

3. All sediment and erosion control devices shall be inspected once every calendar week, if periodic inspection or other information indicates that a BMP has been inappropriately or incorrectly installed, the Permittee must address the necessary replacement or modification required to correct the BMP within 48 hours of identification.

. 4. Provide all tance and/or other control devices, as may be required, to control soil erosion during utility construction. All disturbed areas shall be eleganed, and stabilized with grassing immediately after the utility installation. Fill, cover, and temporary seeding at the end of each day are recommended. If water is encountered while trenching, the water should be filtered to remove any sediments before being pumped back into any waters of the

5. All erasion control devices shall be properly maintained during all phases of construction until the completion of all construction pathities and all disturbed areas have been stabilized.

Additional control devices may be required during construction in order to control erasion. and/or offsite sedimentation. All temporary control devices shall be removed once construction ... is complete and the site is stabilized.

· 6. The contractor must take necessary action to minimize the tracking of mud onto paved Rezidential subdivisions require erosion control features for infrastructure as well as for

individual lot construction, individual property owners shall follow these plans during construction or obtain approval of an individual plan in accordance with S.C. Reg. 72—300 et seg. and SCR100000. 8. Temporary diversion berms and/or ditches will be provided as needed during construction

9. All waters of the State (WoS), including wetlands, are to be flagged or otherwise clearly marked in the field. A double row of silt fence is to be installed in all great where a 50-foot buffer agn't be maintained between the disturbed area and all WoS. A 10-foot buffer should be maintained between the last row of silt fence and all WoS.

10. Litter, construction debris, oils, fuels, and building products with significant potential for Impact (such as stockpiles of freshly treated lumber) and construction chemicals that could be exposed to storm water must be prevented from becoming a pollutant source in storm

11. A copy of the SWPPP, inspections records, and rainfall data must be retained at the construction site or a nearby location easily accessible during normal business hours, from the dats of commencement of construction pativities to the date that final stabilization is

12. Inhibite stabilization measures on any exposed steep slope (3H:1V or groater) where tond-disturbing softwittee have permanently or temporarily decises, and will not resume for a period of 7 adjunctor days.

14. Minimize the discharge of poliutants from equipment and vehicle washing, wheel wash water, and other wash waters. Wash waters must be treated in a sadiment basin or alternative control that provides equivalent or setter treatment prior to discharge;

15. Minimize the dispharge of pollutants from dewatering of trenshes and excavated areas. These dispharges are to be routed through appropriate BMPs (sediment basin, filter bag, etc.). 16. The following discharges from sites are prohibited:

13. Wastewater from washout of concrete, unless managed by an appropriate control;

13. Wastewater from washout and aleanout of studed, paint, form release alls, ouring compounds and other construction materials;

13. Fuelts, alls, or other pollutants used in vehicle and equipment operation and

maintenance: and is solvents used in vehicle and equipment washing. 17. After construction activities begin, inspections must be conducted at a minimum of at least once every costandar week and must be conducted until final stabilization is reached on all areas of the construction alte.

INSTALL A CULVERT PIPE ACROSS THE ENTRANCE WHEN NEEDED TO PROVIDE POSITIVE DRAINAGE.

DIVERT ALL SURFACE RUNOFF AND DRAINAGE FROM THE STONE PAD TO A SEDIMENT TRAP OR BASIN OR OTHER SEDIMENT TRAPPING

MOTES: APPLICABLE AT ALL POINTS OF

...INGRESS & EGRESS UNTIL SITE IS STABILIZED, FREQUENT CHECKS OF THE DEVICE AND TIMELY

MAINTENANCE MUST BE PROVIDED,

15. If existing BMPs need to be modified or if additional BMPs are necessary to comply with the requirements of this permit and/or SC's Water Quality Standards, implementation must be completed before the next storm event whenever practicable, if implementation before the next storm event is impracticable, the situation must be documented in the SWPPP and alternative BMPs must be implemented as soon as repsenably possible.

19. A Pre-Construction Conference must be held for each construction site with an approved On-Site SWPPP prior to the implementation of construction activities. For non-linear projects that disturb 10 gards or more this conference must be held on-site unless the Department has approved attention.

STABILIZED CONSTRUCTION ENTRANCES SHOULD BY USED AT ALL POINTS WHERE TRAFF, WILL BE LEAVING A CONSTRUCTION SITE AND MOVING DIRECTLY ONTO A PUBLIC ROAD.

INSPECT CONSTRUCTION ENTRANCES EVERY SEVEN (7) CALENDAR CAYS AND WITHIN 24 HOURS AFTER EACH RAINFALL EVENT THAT PRODUCES & CR MORE OF PRECIPITATION, OR AFTER HEAVY USE, CHECK FOR MUD AND SECUMENT BUILDUP AND PAD INTEGRITY. MAKE DALLY INSPECTIONS DURING PERIODES OF WEY WEATHER. MAINTENANCE IS REQUIRED MORE PRECUENTLY IN WET WEATHER COMMITTIONS. RESIMPLE THE STONE PAD AS NEEDED FOR DRAINAGE AND RUNOFF CONTROL.

REMOVE ALL VEGETATION AND ANY DESIGNIONABLE MATERIAL FROM THE FOUNDATION AREAS. DIVERT ALL SURFACE RUNOFF AND DRAWAGE FROM STONES TO A SECIMENT TRAP OR BASIN INSTALL A NON-WOVEN GEOTEXTILE PASKIC PRIOR TO PLACING ANY STONE. Install a culvert pipe across the entrance when needed to provide positive drainage. THE ENTRANCE SHALL CONSIST OF 1" TO 3" 050 STONE PLACED AT A MINIMUM DEPTH OF : Minimum dimensions of the entrances shall be 24° knde by 100° long, and may be modified as necessary to accommodate ette constraints. THE EDGES OF THE ENTRANCE SHALL SE TAPERED OUT YOMARDS THE ROAD TO PREVENT TRACKING OF MUD AT THE EDGE OF THE ENTRANCE.

INSPECTION AND MAINTENANCE:

VEGETATIVE PLAN

All areas disturbed during construction shall be grassed according. to the following specifications. PLAN 1 PLAN 2 Planting Dates Mar. 15-Aug. , Aug. 15-Mar. 14 2.0 Tons/Aci 2.0 Tons/Ac

10-10-10 10-10-10 0.5 Tons/Ac 0.5 Tons/Ac Rye Gross Temp, Cover Browntop Millet 40 lbs/Ac 40.lbs/Ac Perm. Cover Common Bermuda Unhulled Bermuda

60 lbs/Ac 30 lbs/Ac 1.5 Tons/Ac 1.5 Tons/Ac

* Must be anchored with a disk harrow to prevent blowing.

"Any variation from this plan must be approved by the local Soil

DISTURBED AREA- +/-0.30 ACRES PROVIDE A TEMPORARY STONE SPLASH PAD AT ALL FIRE HYDRANTS OR OTHER POINTS OF DISCHARGE DURING TESTING ON THE WATER

DISTRIBUTION SYSTEM.

Conservation Service Representative

PROVIDE SILT FENCE AND/OR OTHER CONTROL DEVICES, AS MAY BE REQUIRED, TO CONTROL SOIL EROSION DURING UTILITY CONSTRUCTION. ALL DISTURBED AREAS SHALL BE CLEANED, GRADED AND STABILIZED WITH GRASSING IMMEDIATELY AFTER THE UTILITY INSTALLATION.

ALL STONE PROVIDED FOR SEDIMENT AND EROSION CONTROL IS TO BE SIZED AND INSTALLED PER SCOOT SPECIFICATIONS (SECTION 800) LATEST EDITION. FILTER FABRIC IS TO BE NONWOVEN POLYESTER OR POLYPROPYLENE AND IS TO MEET ALL ASTM STANDARDS AND HAVE A MINIMUM THICKNESS OF 60 MILS. SITE IS COMPOSED OF VAUCLUSE SOIL

1' MIN, DEPTH UPSLOPE SIDE SIDE VIEW

> SUPAC (SNP) OR APPROVED : - METAL PICKET GEOTEXTILE FABRIC

- FABRIC AND WIRE FABRIC SHOULD EXTEND TO BOTTOM OF DITCH - BACKFILL AND COMPACT DITCH

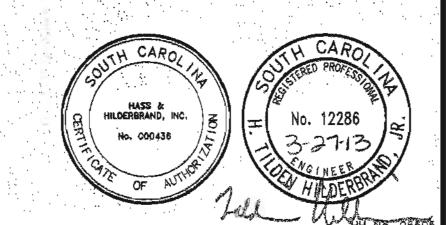
FRONT VIEW

NOTES:

1. INSTALL SILT FENCE BEFORE CONSTRUCTION IS BEGUN,

2. CONSTRUCT SILT FENCE AS ABOVE OR USE PREFABRICATED SILT FENCE (METROMONT 24—100X) OR APPROVED EQUAL.

3. SEDIMENT TO BE REMOVED FROM SILT FENCE WHEN DEPTH IS ABOUT 0.5 FEET AT THE FENCE.





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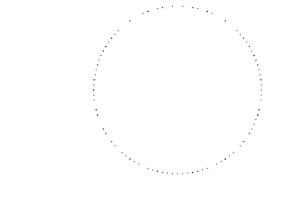
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USC AIKEN 471 UNIVERSITY PARKWAY **AIKEN, SOUTH CAROLINA 29801** project name **USC AIKEN GREENHOUSE** STATE PROJECT #H29-I337

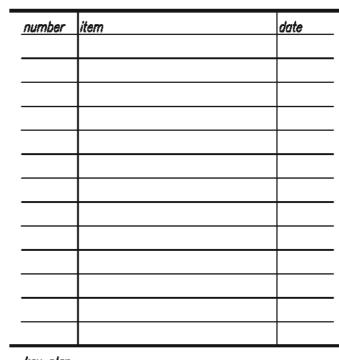
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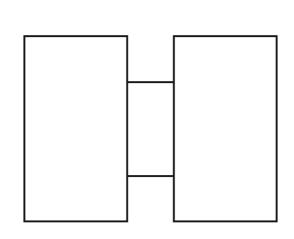


CONSTRUCTION DOCUMENTS

APRIL 12, 2013



key plan



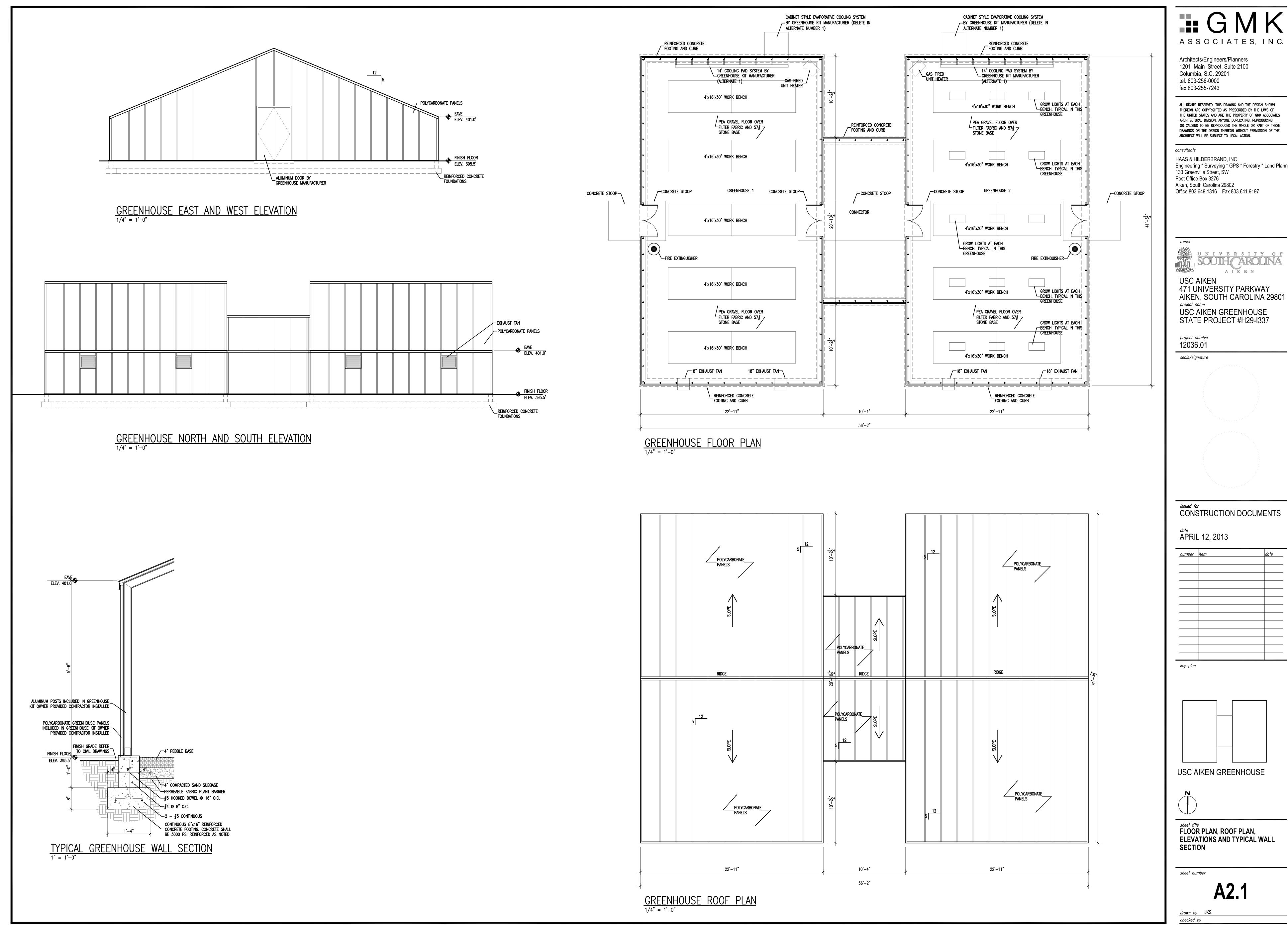
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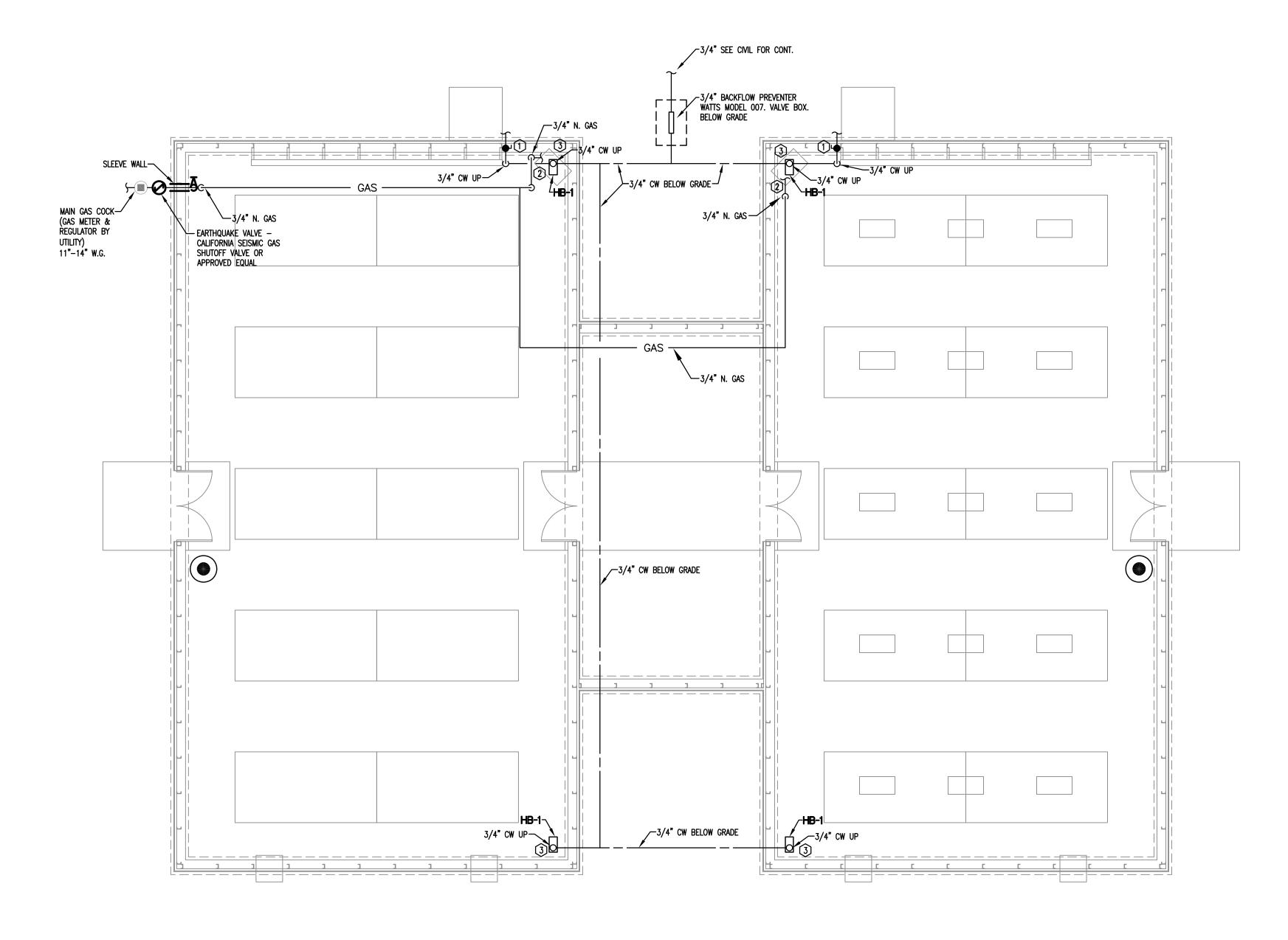
sheet title **GRADING, DRAINAGE &** UTILITY PLAN

sheet number

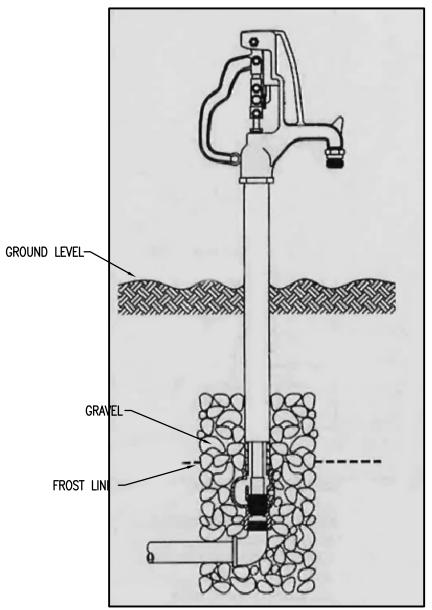
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GREENHOUSE PLAN - PLUMBING PIPING



| ABV | Above | NC | Normally Closed |
|---------|--------------------------|-------------|-----------------------|
| AD | Access Door | NG | Natural Gas |
| AFF | Above Finished Floor | NIC | Not in Contract |
| BFP | Backflow Preventer | NO | Normally Open |
| CA | COMPRESSED AIR | NPT | National Pipe Thread |
| CI | Cast Iron | NTS | Not To Scale |
| COL | Column Line | OFST | Over Flow Storm Drain |
| CONN | Connection | OX | Oxygen |
| CW | Cold Water | PC | Plumbing Contractor |
| DI | Deionized Water | P-# | Pump – No. |
| DN | Down | PRV | Pressure Reducing Val |
| EC | Electrical Contractor | PSI | Pounds Per Square In |
| ELEV | Elevation | RD | Roof Drain |
| ET | Expansion Tank | SA | Shock Absorber |
| EW-# | Emergency Eyewash | SH-# | Shower |
| EWC-# | Electric Water Cooler | SK-# | Sink |
| EXIST " | Existing | SS | Stainless Steel |
| FD | Floor Ďrain | ST | Storm Drain |
| FL | Floor | STD | Standard |
| FT | Feet | TEMP | Temperature |
| GC | General Contractor | TOS | Top of Steel |
| GPH | Gallons Per Hour | TYP | Typical |
| GPM | Gallons Per Minute | U-# | Urinal |
| HW | Hot Water | VAC | Vacuum |
| HWR | Hot Water Return | VB | Vacuum Breaker |
| ΙE | Invert Elevation | V | Sanitary Vent |
| L-# | Lavatory | VTR | Vent Thru Roof |
| MA" | Medical [®] Air | w'`` | Sanitary Waste |
| MAX | Maximum | ₩B-# | Wall Box |
| MC | Mechanical Contractor | ••• | |
| MIN | Minimum | WC-# WTS | Water Closet |
| MPT | Male Pipe Thread | MIZ | Water Tight Sleeve |
| MSB-# | Mop Sink Basin | | |
| N/A | Not Applicable | * Not All | Abbreviations Used |

$\widehat{\mathbb{D}}$ provide 3/4" domestic water supply for evaporative cooler. PC shall make final connection. Provide BALL VALVE AND DOUBLE CHECK VALVE IN-LINE BEFORE EQUIPMENT CONNECTION. BASE TO INCLUDE EXTERIOR TERMINATION, SLEEVE AND SEAL EXTERIOR WALL PENETRATION. ALTERNATE SHALL BE INTERIOR SUPPLY TERMINATION. EVAPORATIVE COOLERS BY OTHERS.

2 PROVIDE 3/4" NATURAL GAS SUPPLY TO UNIT HEATER. PC SHALL MAKE FINAL CONNECTION. ENSURE SUPPLY SIDE GAS COCK VALVE AT CONNECTION TO UNIT. GAS FIRED UNIT HEATERS BY OTHERS.

3 INSTALL WATER HYDRANTS ACCORDING TO MANUFACTURERS RECOMMENDATIONS. ENSURE APPROVED BACKFLOW PREVENTION DEVICE AT HOSE CONNECTION.

PLUMBING FIXTURE SCHEDULE

HB-1; HOSE BIB / YARD HYDRANT (FROST PROOF) A. WOODFORD #Y2 BACKFLOW PROTECTED HYDRANT 2. FINISH

a. Galvanized

A. LEVER HANDLE 4. INLET

6. MOUNTING

A. 3/4" CW. 5. outlét A. 3/4" HOSE.

B. BACKFLOW PREVENTER

A. FOLLOW MANUFACTURERS RECOMMENDATIONS FOR INSTALLATION AND BURY DEPTH B. HOSE OUTLET 28-1/2" AFG



PLUMBING GENERAL NOTES

- VERIFY EXACT LOCATION OF ALL PLUMBING FIXTURES IN OR ATTACHED TO CASEWORK WITH THE ARCHITECT AND THE MILLWORK
- ALL PIPES THROUGH FOOTINGS OR FOUNDATION WALLS SHALL BE SLEEVED IN ACCORDANCE WITH SECTION 305.5 OF THE INTERNATIONAL PLUMBING CODE.
- . LOCATE SHUT-OFF VALVES IN LOCATIONS ACCESSIBLE FOR SERVICE. LOCATION SHALL COMPLY WITH THE REQUIREMENTS OF
- CONTRACTOR SHALL REFERENCE PLANS AND THE SPECIFICATIONS SHOWN ON THIS SHEET AND EQUIPMENT SCHEDULE FOR
- PLUMBING FIXTURES, EQUIPMENT AND MATERIALS.
- 5. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THAT ITEMS TO BE FURNISHED FIT THE SPACE AVAILABLE. THESE DRAWINGS ARE SCHEMATIC IN NATURE AND DO NOT SHOW EXACT LOCATIONS OF FIXTURES AND EQUIPMENT. ALL
- OFFSETS AND FITTINGS FOR COMPLETE INSTALLATION MAY NOT BE DEFINED ON THE DRAWINGS. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING EXACT DIMENSIONS AT THE BUILDING AND ANY NECESSARY CHANGES MADE IN ACCORDANCE WITH STRUCTURAL CONDITIONS, EQUIPMENT TO BE INSTALLED AND COORDINATE WITH OTHER SYSTEMS. IF CONFLICTS CANNOT BE RESOLVED THEY SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER.
- CONTRACTOR SHALL SECURE ALL PERMITS, INSPECTIONS, LICENSES AND TESTS REQUIRED FOR THIS WORK AND PAY ALL FEES IN CONNECTION THEREWITH.
- 8. ALL MATERIALS SHALL BEAR THE MANUFACTURER'S NAME, TRADE NAME AND BE U.L. LABELED IF REQUIRED. UNLESS SPECIFICALLY INDICATED OTHERWISE, ALL EQUIPMENT AND MATERIALS SHALL BE INSTALLED IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE MANUFACTURER. ALL EQUIPMENT OF A SIMILAR TYPE SHALL BE OF THE SAME MANUFACTURER.
- CONTRACTOR SHALL PROVIDE AND LOCATE SLEEVES AND INSERTS REQUIRED BEFORE THE FLOOR AND WALLS ARE BUILT OR SHALL BE RESPONSIBLE FOR THE COST OF CUTTING AND PATCHING REQUIRED FOR PIPES WHERE SLEEVES AND INSERTS WERE NOT INSTALLED OR WHERE THEY WERE INCORRECTLY LOCATED.
- 11. IT IS THE INTENT AND MEANING OF THE DRAWINGS TO PROVIDE COMPLETE AND OPERABLE PLUMBING SYSTEM.
- 12. ALL PLUMBING LINE SIZE REDUCTIONS SHALL BE MADE WITH REDUCERS AND/OR REDUCING FITTINGS.
- 14. THERE SHALL BE NO CONNECTIONS TO THE COLD WATER SERVICE PIPE THROUGHOUT THE BUILDING OTHER THAN WHAT IS INDICATED ON THE DRAWINGS. ALL DOMESTIC COLD WATER BRANCHES SHALL BE TAKEN FROM THE DOMESTIC COLD WATER MAIN PIPING TO SUPPLY POTABLE WATER TO THE FIXTURES.

- SHOP DRAWINGS. COORDINATE PRIOR TO INSTALLATION.
- ALL CODES REFERENCED HEREIN.

- 10. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR THE MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES OF CONSTRUCTION SELECTED BY THE CONTRACTOR OR OF THE SAFETY PRECAUTIONS AND PROGRAMS INCIDENTAL TO THE WORK OF THE CONTRACTOR. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR THE FAILURE OF THE CONTRACTOR TO PERFORM THE CONSTRUCTION WORK IN ACCORDANCE WITH THE DRAWINGS.
- 13. COORDINATION WITH OTHER DISCIPLINES IS MANDATORY.

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USC AIKEN GREENHOUSE STATE PROJECT #H29-I337

AIKEN, SOUTH CAROLINA 29801

HAAS & HILDERBRAND, INC

133 Greenville Street, SW Post Office Box 3276 Aiken, South Carolina 29802

USC AIKEN

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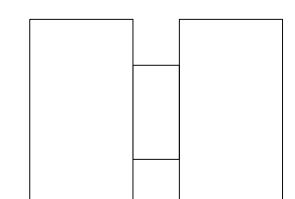
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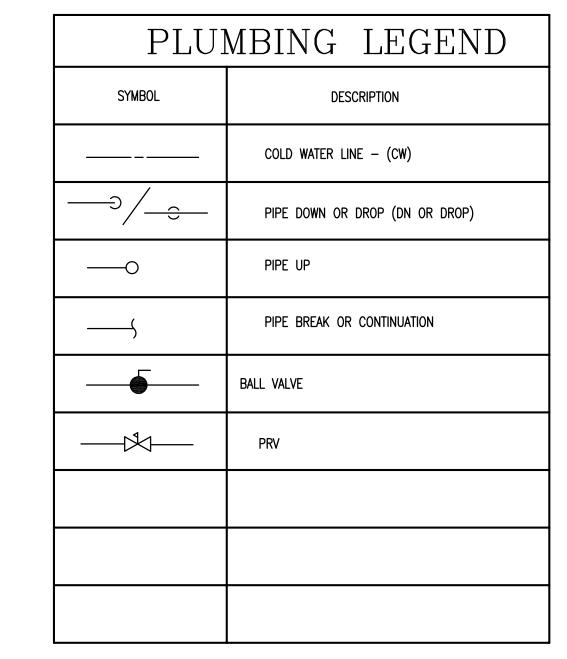
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sheet title **GREENHOUSE PLAN** PLUMBING PIPING SCHEDULES, NOTES, SYMBOLS AND ABBREVIATIONS

sheet number

drawn by JJR checked by RLW JWB

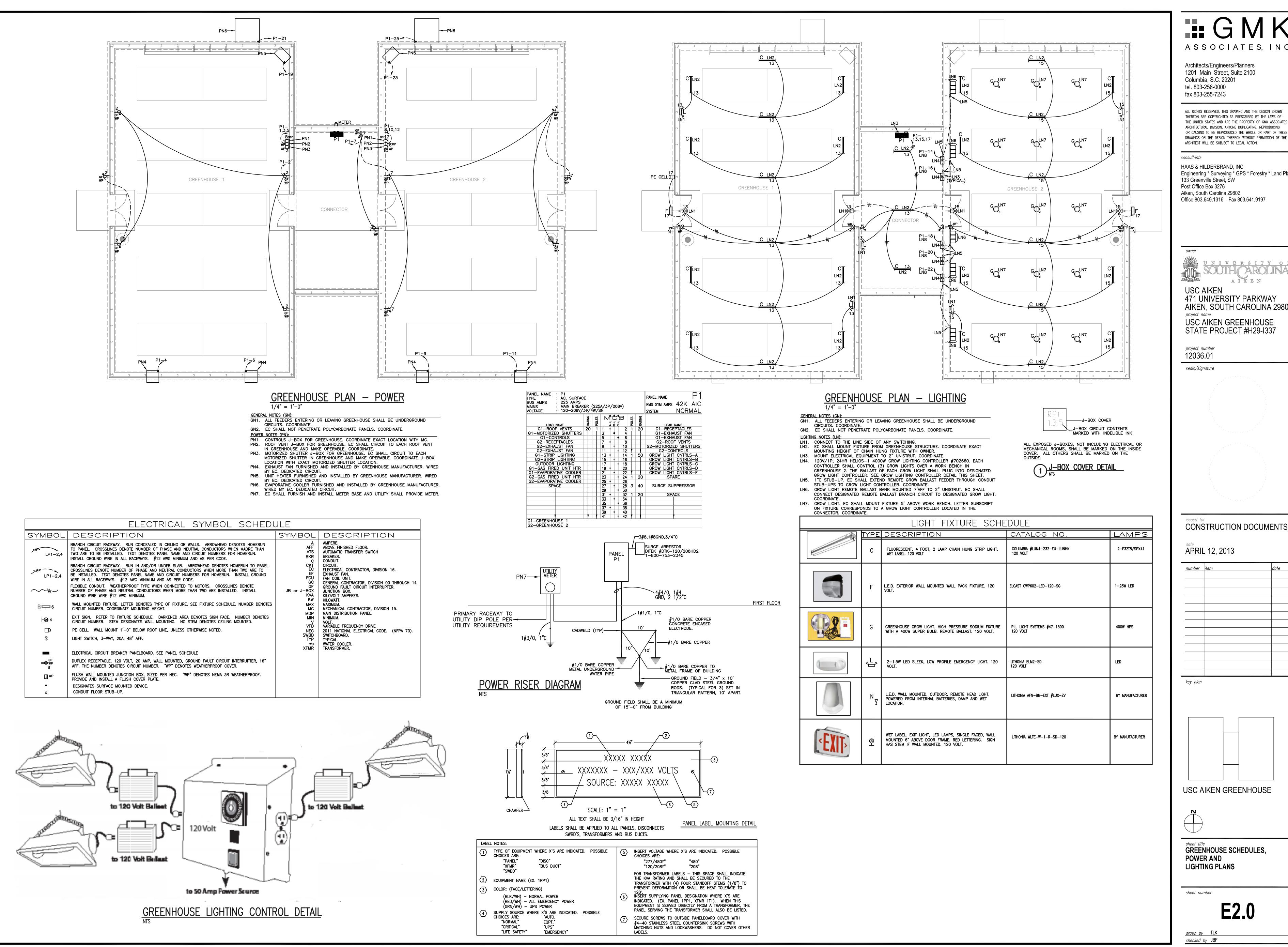


PIPE IDENTIFICATION SCHEDULE SERVICE TYPE | DECAL IDENTIFICATION | TAPE COLOR COLD WATER SERVICE COLD WATER SUPPLY

1. PIPE SIZES 1-1/4" TO 6", USE 2-1/4" LETTERING. 2. PIPE SIZES 1" OR LESS, USE 1-1/4" LETTERING.

| FIXTURE SIZE SCHEDULE | | | | | | |
|-----------------------|-------|------|------|----|--|--|
| MARK | WASTE | VENT | CW | HW | | |
| HB-1 | | | 3/4" | | | |
| | | | | | | |

NOTE: USE THIS SIZE FOR FIXTURE CONNECTIONS UNLESS NOTED OTHERWISE



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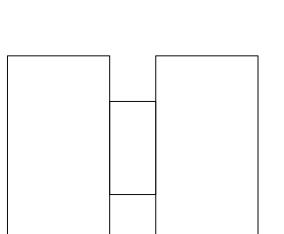
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USC AIKEN GREENHOUSE



GREENHOUSE SCHEDULES POWER AND LIGHTING PLANS

sheet number

drawn by TLK checked by JBF