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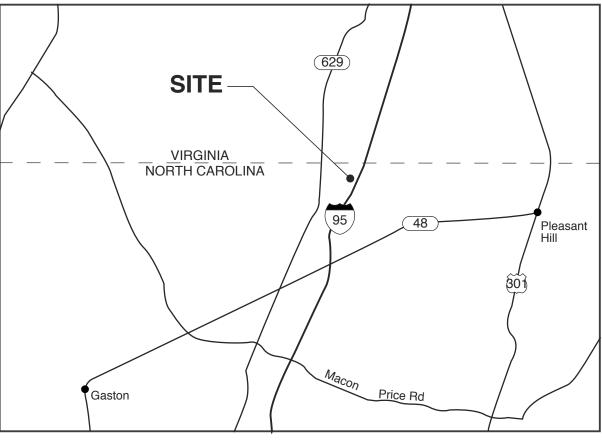
# NORTHAMPTON COUNTY REST AREA RENOVATION

# I-95 NEAR VA STATE LINE PLEASANT HILL. NC

	DIX B BUILDING COI	DE SUMMARY		NC
Name Of Project: Address: Proposed Use: Owner Or Authorized Ac Owned By:	I-95 NEAR VIRGII RESTROOM BUIL ent: Weeks Turner Arc Raleigh, NC [ ] City/County	hitecture P E [ ] Private [	Phone: (919) 779-97 E-mail ganderson@ <b>X</b> ] State	97 weeksturner.com
Code Enforcement Juris  LEAD DESIGN PRO	,	[ ] County [	X State	
DESIGNER	FIRM Veeks Turner Architecture Gin Burke Design Group Be Burke Design Group Be Burke Design Group Be Lysaght & Assoc.	NAME LIC. #	TELEPHONE (919) 779-9797 g (919) 771-1916 (919) 771-1916 (919) 771-1916	benburke@nc.rr.com
	IC CODE FOR: [ ] New C	onstruction [X]	Addition [ ] Upfit	
EXISTING: [] Reconstructed RENOVATED	truction [X] Altera ORIGINAL USE RES CURRENT USE RES	TROOMS	[ ] Repair	RESTROOMS
BUILDING DATA	F (11.4 (111.4			
MIXED CONSTRUCTION TYPE MIXED CONSTRUCTION SPRINKLERS: STANDPIPES: FIRE DISTRICT: BUILDING HEIGHT: MEZZANINE:	[] -B []  -B [X] NO [] YES [X] NO [] YES [X] NO [] YES [X] NO [] YES +\-34 FEET [X] NO [] YES	[ ] III-A	V-B : :PA 13 [] NFF   II [] III <b>EA:</b> [ <b>X</b> ] NO	PA 13R []NFPA 13D []WET []DRY []YES
GROSS BUILDING 2ND FLOOR	AREA EX. REST AREA R	NEW EX. WELCO	ME PORCH & VENDING	TOTAL AREA
MEZZANINE 1ST FLOOR BASEMENT TOTAL	5,056 SF  <b>5,056 SF</b>	231 SF 4,012 SF	2,670 SF	11,969 SF 
ALLOWABLE ARE	,	231 3F 4,012 3F	2,670 SF	11,969 SF
[ ] HIGH-HAZARD [ ] INSTITUTIONAL [ ] MERCANTILE [ ] RESIDENTIAL [ ] STORAGE [ ] UTILITY AND MISO SECONDARY OCCUPANO SPECIAL OCCUPANO	[ ] I-1 [ ] I-2 [ ] I- I-3 CONDITION [ [ ] R-1 [ ] R-2 [ ] R [ ] S-1 Moderate [ ] PARKING GARAGAMOY: STORAGE (S-1)	3 []I-4 ]1 []2 []3 []4 I-3 []R-4 []S-2 Low [ GE[]OPEN [	[]5  HIGH-PILED  ENCLOSED	
SPECIAL PROVISION MIXED OCCUPANCY:	<b>S</b> : []508.2 []508.3		5 []508.6 []	508.7 [ ] 508.8
[ ] Incidental Use Sepa		SEPARATION FIF	1. EXCEPTION.	· <del></del>
[X] Non-separated Mix The Required Limitations For Construction, S	n is not exempt as a Non-Sepa red Occupancy (508.3.2) Type Of Construction For The I Each Of The Applicable Occu to Determined, Shall Apply To	Building Shall Be Detern pancies To The Entire B The Entire Building	mined By Applying T	The Height And Area Restrictive Type Of
For Each Story Of Each Use D		Shall Be Such That The Area For Each Use Sha TUAL AREA OF OCCUP	all Not Exceed 1.  PANCY B	
ALLOWABLE AREA O		OWABLE AREA OF OC	CCUPANCY B	1.00
STORY DESCR'N AND USE  1 BUSINESS 1 STORAGE	9,000	AREA FOR ARI OPEN SPACE SPF INCREASE 1 INC 6,750 6.750	RINKLER AREA REASE 2 UNLIM 15,75 15,75 	/ABLE MAXIMUM . OR BUILDING ITED ₃ AREA ₄ 50 31,500 50 15,750
A. Perimete B. Total Bu C. Ratio (F. D. W= Mini E. Percent 2. The Sprinkler A. Multi-sto B. Single S 3. Unlimited Area Group A Motio 4. Max. Building	rea Increases From Section 50 r Which Fronts A Public Way 0 Iding Perimeter = 968 P) = 1 (F/P).  The Middle Middl	Or Open Space Having 2 (P). (W). [F/P - 0.25] X W/30 = As Follows: Of Sections Group B, F, ); And H-2 Aircraft Paint The Building X E But No	20 Ft Min. Width = 9 75 (%).  M, S, A-4 (507); Hangers (507.7) of Greater Than 3 X	E. (506.4)
Traffic Control  ALLOWABLE HEIG	Towers Must Comply With 412	2.1.2.		
TYPE OF CONSTRUC	TION: TYPE VB	INODEACE	0110147	0005
	ALLOWABLE	INCREASE	SHOWN	CODE
	(TABLE 503)	FOR SPRINKLERS		REFERENCE

NC DEPT. OF INS 2012 APPENDIX B	BUILD	ING CO	DE SUMI	MARY			CONTIN	IUEL
FIRE PROTECTION REQU	JIREME	NTS	LIFE	SAFETY PLAN	SHEET#	(IF PROVI	DED)	
BUILDING ELEMENT		FIRE SEP'N DIST. (FT)	RATING REQ'D	RATING PROV'D (W/* REDUCTION)	DETAIL # AND SHEET #	DES. # FOR RATED ASS'Y	DES. # FOR RATED PENET'N	DES FOR RAT JOI
STRUCTURAL FRAME, INCLUDING COLUMNS GIRDERS, TRUSSES BEARING WALLS			0					
EXTERIOR NORTH EAST		RE THAN RE THAN						
WEST SOUTH	MOF	RE THAN RE THAN	30' 0					
INTERIOR NONBEARING WALLS AND PARTITIONS EXTERIOR NORTH								
EAST WEST								
SOUTH INTERIOR WALL & PARTI	TIONS							
FLOOR CONSTRUCTION INCLUDING SUPPORTING BEAMS AND JOISTS	ì							
ROOF CONSTRUCTION INCLUDING SUPPORTING	ì		0					
BEAMS AND JOISTS SHAFTS ENCLOSURES-EXIT SHAFTS ENCLOSURES-OTHE	<b>-</b> D							
CORRIDOR SEPARATION OCCUPANCY SEPARATION	=R							
PARTY/FIRE WALL SEPARATION SMOKE BARRIER SEPARATION								
TENANT SEPARATION INCIDENTAL USE SEPARATION	ON							
*INDICATE SECTION NO.			DUCTION					
EMERGENCY LIGHTING: EXIT SIGNS: FIRE ALARM:	[X]YES	N[] NO [] NO [X] NO		DETECTION S HARDWARE:		[]YES []YES	[ <b>X</b> ] NO [ <b>X</b> ] NO	
[ ] Fire and/or smoke rate [ ] Assumed and real pro [ ] Exterior wall opening a [ ] Existing structures wit [ ] Occupancy types for e [ X ] Occupant loads for ea [ X ] Exit access travel dista [ ] Common path of trave [ ] Dead end lengths (1000) [ X ] Clear exit widths for ea [ X ] Maximum calculated of [ X ] Actual occupant load if	pperty line area with hin 30 fee each area ances (10 el distance 18.4) ach exit d occupant l	locations respect to et of the pr as it relat 016) es (1014.3	o distance to roposed bui es to occup 8 & 1028.8)	ilding pant load calcula	ation (Table	1004.1.1)	gress width (	(1005.
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TOTAL



#### **GENERAL NOTES**

**VICINTY MAP** 

#### I: FOR THIS PROJECT:

A) THE ARCHITECTS SCOPE OF WORK DOES INCLUDE CONSTRUCTION OBSERVATION. CONSTRUCTION DOCUMENTS IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE ARCHITECT WILL BEAR NO RESPONSIBILITY FOR FAILURE OF THE CONTRACTOR TO FULLY COMPLY WITH ALL CONSTRUCTION DOCUMENTS.

USE OF THESE CONTRACT DOCUMENTS WILL CONSTITUTE AGREEMENT BY THE CONTRACTOR TO THESE CONDITIONS.

B) "THE GENERAL CONDITIONS OF THE CONTRACT FOR THE CONSTRUCTION OF THE BUILDINGS" OF THE AMERICAN INSTITUTE OF ARCHITECTS DOCUMENT A-201. LATEST EDITION, ARE HEREBY MADE PART OF THE CONTRACT DOCUMENTS. IN THE EVENT OF A

II: ALL WORK UNDER THIS CONTRACT SHALL:

A) CONFORM TO STATE, LOCAL AND NATIONAL CODES AND ORDINANCES AS ARE APPLICABLE TO THE WORK INCLUDING BUT NOT LIMITED TO THE NORTH CAROLINA STATE BUILDING CODE, THE AMERICANS WITH DISABILITIES ACT (ADA), NATIONAL ELECTRIC CODES, ASTM SPECIFICATIONS, AND OSHA SAFETY REGULATIONS.

B) COMPLY WITH ALL LAWS, ORDINANCES, CODES, RULES AND REGULATIONS PERTAINING TO ENVIRONMENTAL PROTECTION (EPA). THE COST OF ALL REQUIRED INSPECTIONS AND PERMITS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

#### III: UNLESS OTHERWISE DIRECTED BY THE ARCHITECT, THE CONTRACTOR SHALL:

A) SUPPLY AND PAY FOR ALL LABOR, TRANSPORTATION, MATERIALS, TOOLS, APPARATUS. LÍGHTS, POWER, HEAT, SANITARY FÁCILITIES, WATER, SCAFFOLDING, AND INCIDENTALS NECESSARY FOR THE COMPLETION OF HIS WORK.

B) INSTALL, MAINTAIN AND REMOVE ALL EQUIPMENT, OTHER UTENSILS OR THINGS USED FOR THE CONSTRUCTION PRIOR TO TURNING OVER THE PROJECT.. IF SUCH ITEMS ARE LEFT AFTER COMPLETION OF THE PROJECT. THEY SHALL BECOME PROPERTY OF THE OWNER. THE OWNER MAY PROMPTLY DISPOSE OF SUCH ITEMS, AND WILL NOT BE SUBJECT TO CLAIMS OF THE CONTRACTOR RESULTING FROM SUCH DISPOSITION.

C) CONSTRUCT IN THE BEST AND PROFESSIONAL MANNER, A COMPLETE JOB AND EVERYTHING INCIDENTAL THERETO, AS SHOWN OR REASONABLY IMPLIED FROM THE PLANS, ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE CONTRACT

D) VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO PROCEEDING WITH THE WORK AND NOTIFY THE ARCHITECT IN WRITING OF ANY DISCREPANCIES DISCOVERED OR LACK OF REQUIRED INFORMATION TO REQUEST CLARIFICATION. IF THE CONTRACTOR OBSERVES HE CONTRACT DOCUMENTS TO BE CONTRARY TO GOVERNING LAWS, ORDINANCES, CODES, RULES AND REGULATIONS OR OTHERWISE QUESTIONABLE CONDITIONS, HE SHALL PROMPTLY NOTIFY THE ARCHITECT IN WRITING FOR INSTRUCTIONS PRIOR TO PROCEEDING

E) KEEP THE BUILDING AND SURROUNDING AREA REASONABLY FREE FROM RUBBISH AT ALL TÍMES. AT A MINIMUM, DEBRIS SHALL BE REMOVED FROM THE SITE ON A WEEKLY BASIS OR AS DIRECTED BY PROJECT EXPEDITOR.

F) LOCATE ALL EXISTING UTILITIES. THE CONTRACTOR MAY NOT INTERFERE WITH ADJACENT UTILITIES UNLESS PRIOR NOTICE AND PERMISSION IS RECEIVED FROM THOSE WHO MAY AS A RESULT OF THIS INTERFERENCE BE AFFECTED.

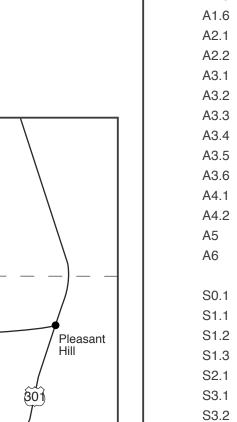
G) PRIOR TO ANY WORK, CALL "NC ONE CALL CENTER" @ 800-632-4949 AND OTHER LOCATING SERVICES AS TO CONFIRM LOCATION OF UTILITIES.

H) PRIOR TO FINAL INSPECTION AND ACCEPTANCE OF THE BUILDING, EACH CONTRACTOR SHALL CLEAN HIS PORTION OF THE WORK, INCLUDING GLASS, HARDWARE FIXTURES, MASONRY, TILE AND MARBLE (USING NO ACID), CLEAN AND WAX ALL FLOORS AS SPECIFIED, AND COMPLETELY PREPARE THE BUILDING FOR USE BY THE OWNER.

I) FILE WITH THE OWNER CURRENT INSURANCE CERTIFICATIONS IN THE AMOUNTS REQUESTED BY THE OWNER FOR BUILDER'S RISK, WORKMEN'S COMPENSATION, COMPREHENSIVE GENERAL LIABILITY, BODILY INJÚRY AND PROPERTY DAMAGE. 'THIS INSURANCE SHALL INDEMNIFY THE OWNER AND THE ARCHITECT OF ANY AND ALL COSTS, CLAIMS, SUITS AND JUDGEMENTS FOR PROPERTY DAMAGE AND PERSONAL INJURY (INCLUDING GENERAL) ARISING OUT OF THE CONTRACTOR'S ACTIONS.

J) PROVIDE ALL NECESSARY SAFETY MEASURES FOR THE PROTECTION OF ALL PERSONS OF THE WORK, INCLUDING THE REQUIREMENTS OF THE A.G.C. ACCIDENT PREVENTION MANUAL IN CONSTRUCTION AS AMENDED, AND SHALL FULLY COMPLY WITH ALL STATE LAWS OR REGULATIONS AND NORTH CAROLINA STATE BUILDING CODE REQUIREMENTS TO PREVENT ACCIDENT OR INJURY TO PERSONS ON OR ABOUT THE LOCATION OF THE WORK.

K) CLEARLY MARK OR POST SIGNS WARNING OF HAZARDS EXISTING, AND BARRICADE EXCAVATIONS, ELEVATOR SHAFTS, STAIRWELLS AND SIMILAR HAZARDS. PROTECT AGAINST DAMÁGE OR INJURY RESÚLTING FROM FALLING MATERIALS AND MAINTAIN ALL PROTECTIVE DEVICES AND SIGNS THROUGHOUT THE PROGRESS OF THE WORK



#### SERVICE RISERS E9

#### **ENERGY SUMMARY ENERGY REQUIREMENTS:**

The following data shall be considered minimum and any special attribute required to meet the energy code shall also be provided. Each Designer shall furnish the required portions of the project information for the plan data sheet. If energy cost budget method, state the annual energy cost budget vs allowable annual energy cost budget.

#### THERMAL ENVELOPE

#### **Method of Compliance:**

Prescriptive --- % Glazed Wall Area Performance [ ] Energy Cost Budget

Roof/ceiling Assembly (each assembly)

Description of assembly New R-42 batt insulation at attic

U-Value of total assembly

R-Value of insulation Skylights in each assembly

U-Value of skylight

Total square footage of skylights in each assembly

**Exterior Walls** (each assembly) Description of assembly existing R-15 batt insulation, replace in kind as needed

U-Value of total assembly

R-Value of insulation Openings (windows or doors with glazing)

DRAWING INDEX

EXIST. FLOOR PLAN-DEMO

EXISTING ELEVATIONS-DEMO

REVISED ELEVATIONS

**BUILDING SECTIONS** 

**BUILDING SECTIONS** 

**BUILDING SECTIONS** WALL SECTIONS **BUILDING SECTIONS BUILDING SECTIONS** ENLARGED FLOOR PLANS

INT. ELEVATIONS

STRUCTURAL NOTES FOUNDATION PLAN ROOF FRAMING PLAN

FOUNDATION DETAILS FRAMING DETAILS FRAMING DETAILS

REVISED DWV PLAN REVISED SUPPLY PLAN

**HVAC DEMO PLAN** 

PANEL SCHEDULES

**DWV RISER** SUPPLY RISER

**HVAC PLAN HVAC DETAILS** 

PLUMBING SPECIFICATIONS EXISTING DEMO PLUMBING PLAN

HVAC SCHEDULES, NOTES

ELECTRICAL DETAILS/SPECS

EXISTING REST AREA LIGHTING PLAN

REVISED REST AREA LIGHTING PLAN

EXISTING REST AREA POWER PLAN

REVISED REST AREA POWER PLAN

EXISTING WELCOME CENTER LIGHTING PLAN

REVISED WELCOME CENTER LIGHTING PLAN

DETAILS SCHEDULES

ATTIC PLAN

COVER SHEET

SITE UTILITIES

LIFE SAFETY PLAN

REV. FLOOR PLAN

ATTIC PLAN **ROOF PLAN** FLOORING PLAN

RCP

A1.3

U-Value of assembly 0.77 @ entrance 0.45 @ other new storefront

Shading coefficient 0.33 Projection factor 0.40

Low-e required, if applicable Door R-Values

Walls adjacent to unconditioned space (each assembly)

Description of assembly

U-Value of total assembly New R-19 wall insulation at attic knee wall

R-Value of insulation Openings (windows or doors with glazing)

U-Value of assembly

Low-e required, if applicable Door R-Values

Walls below grade (each assembly) Description of assembly na U-Value of total assembly

R-Value of insulation

Floors over unconditioned space (each assembly) Description of assembly na U-Value of total assembly

### Floors slab on grade (each assembly)

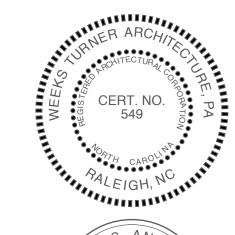
Description of assembly <u>existing</u> U-Value of total assembly

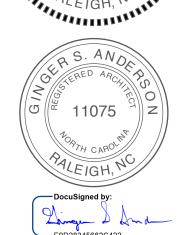
R-Value of insulation

R-Value of insulation Horizontal/Vertical requirement Slab heated

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10/18/2018 7:58:27 AM EDT

**WBS: 15RE.10.3** 

SCO ID# 18-19070-01A

PROJECT TITLE NORTHAMPTON CTY. **REST AREA-RENOV.** I-95 NEAR VA STATE LINE

PLEASANT HILL, NORTH CAROLINA

PROJECT NO. 1704a

DRAWING TITLE **COVER SHEET** 

SHEET 1 OF

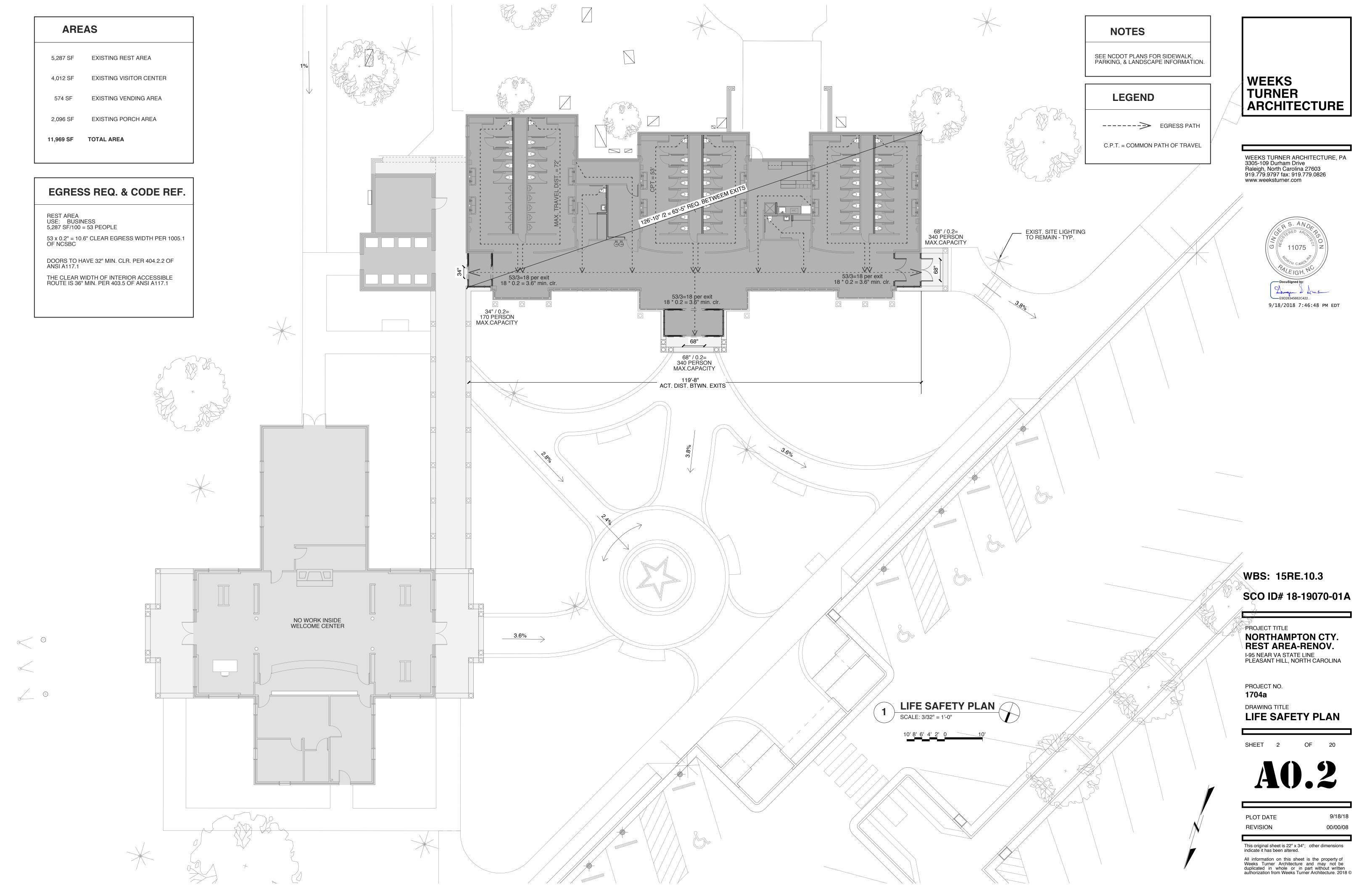
10/18/18

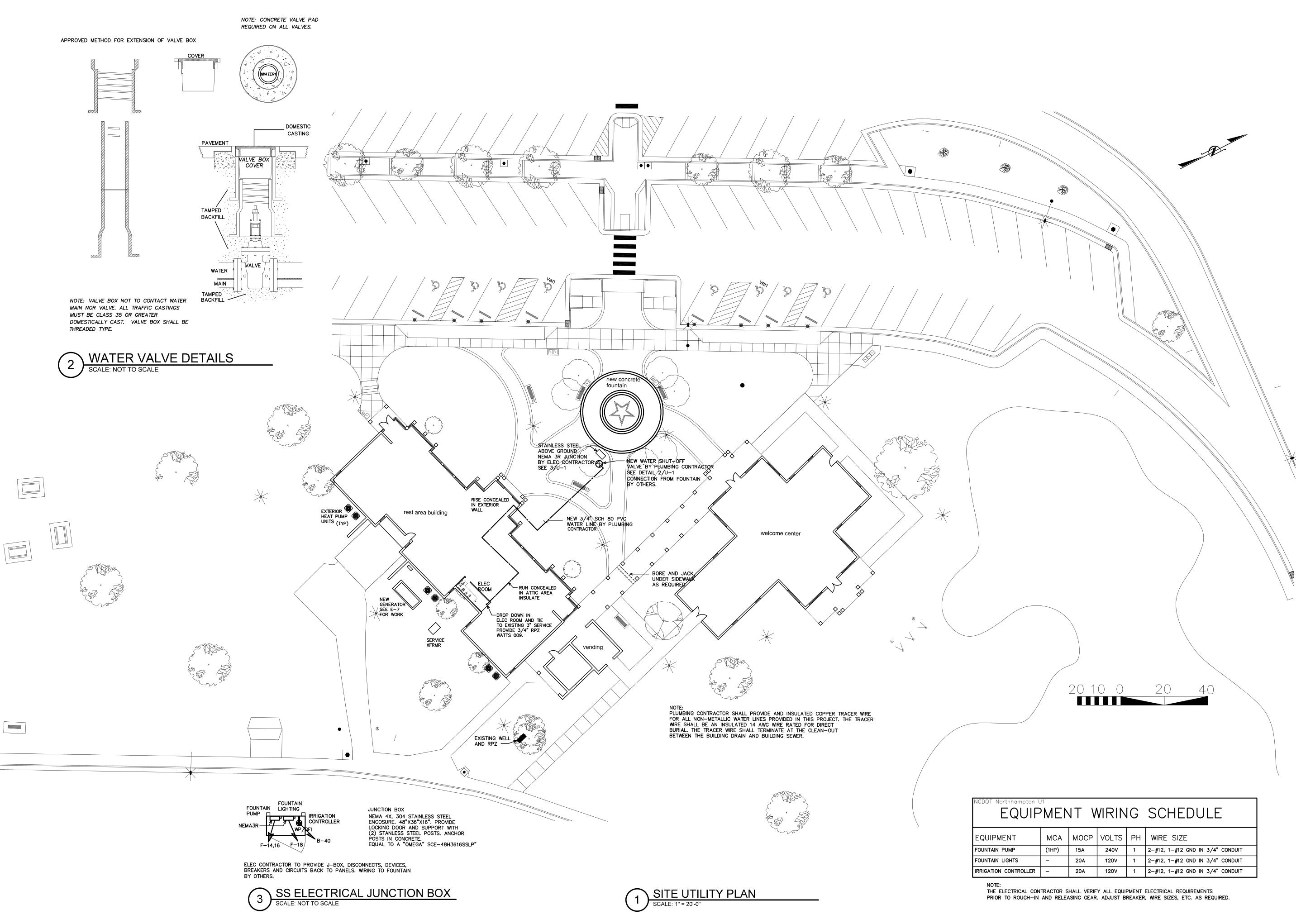
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ENGINEER

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919.771.1916 fax: 919.779.0826
email: benburke@nc.rr.com

email: benburke@nc.rr.cc Corp. License # C-2652



Docusigned by:
BUN BUNKE

C93761FB80F34D5... 10/31/2018 9:52:25 AM EDT

WBS: 15RE.10.3

SCO ID# 18-19070-01A

PROJECT TITLE

NORTHAMPTON CTY.

REST AREA— RENOV.

1-95 NEAR VA STATE LINE

PLEASEANT HILL, NORTH CAROLINA

PROJECT NO. **1704**a

DRAWING TITLE SITE UTILITY PLAN

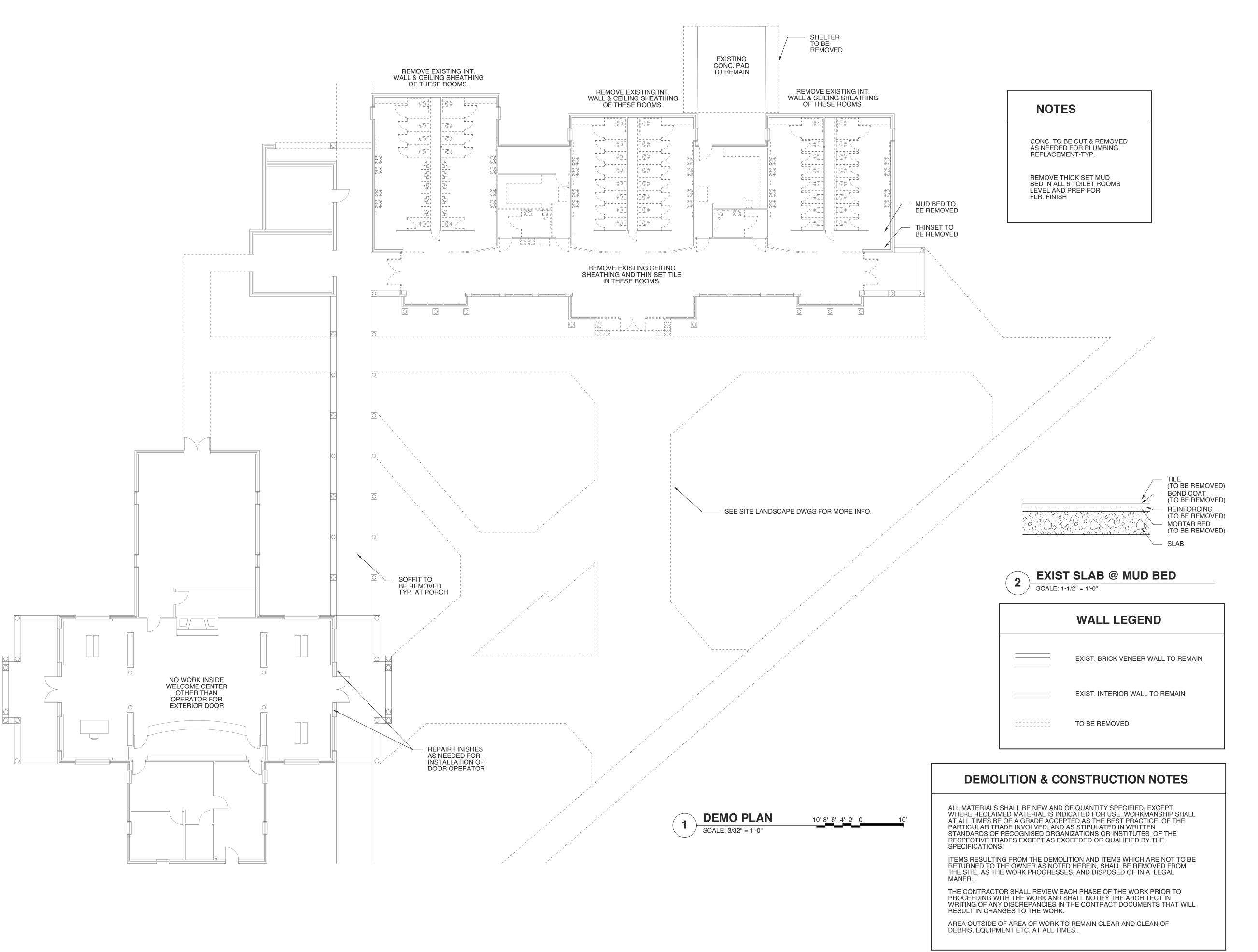
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PLOT DATE

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WBS: 15RE.10.3 SCO ID# 18-19070-01A

PROJECT TITLE NORTHAMPTON CTY. **REST AREA-RENOV.** I-95 NEAR VA STATE LINE PLEASANT HILL, NORTH CAROLINA

PROJECT NO. 1704a

DRAWING TITLE **DEMO PLAN** 

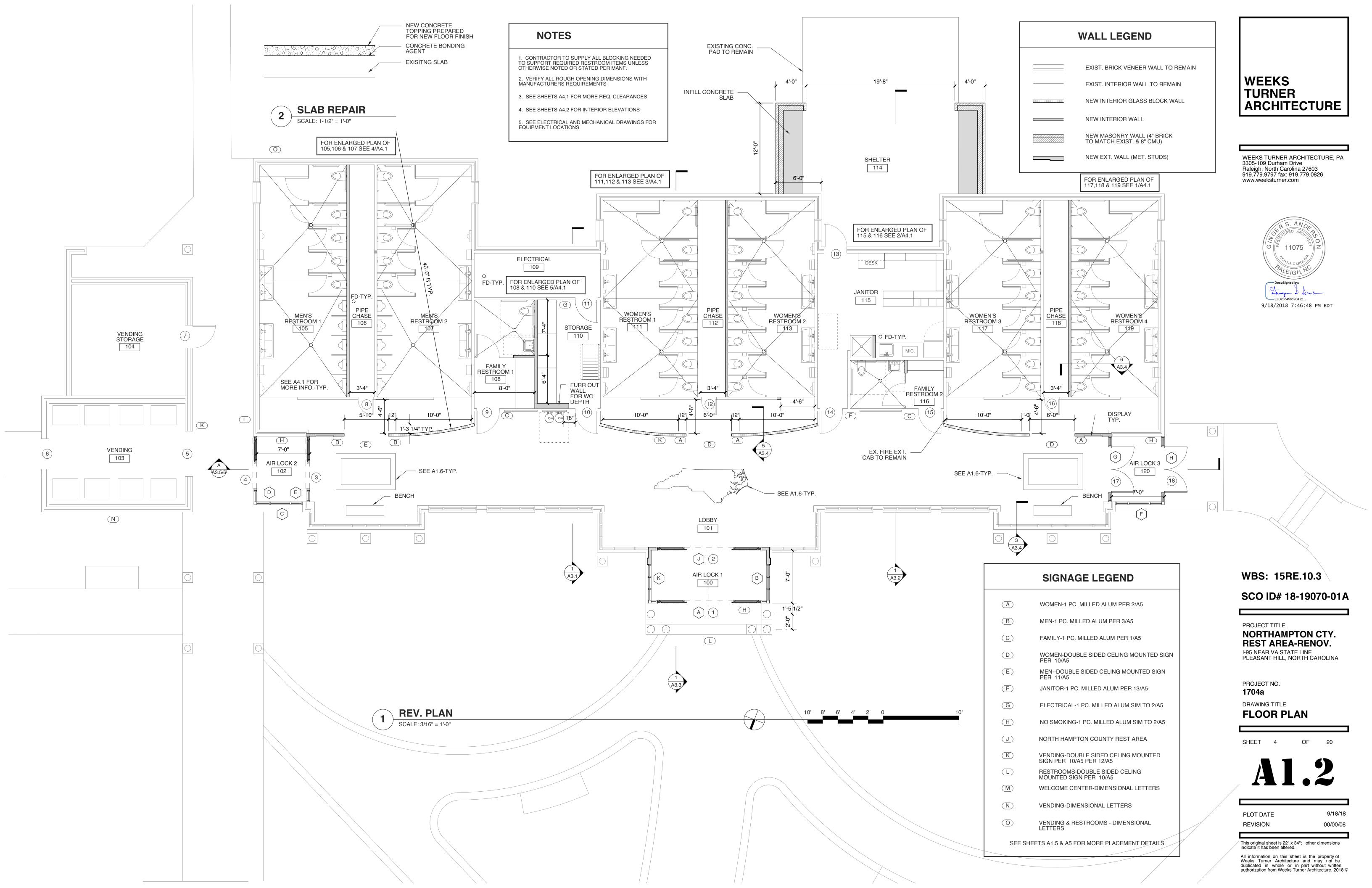
SHEET 3 OF 20

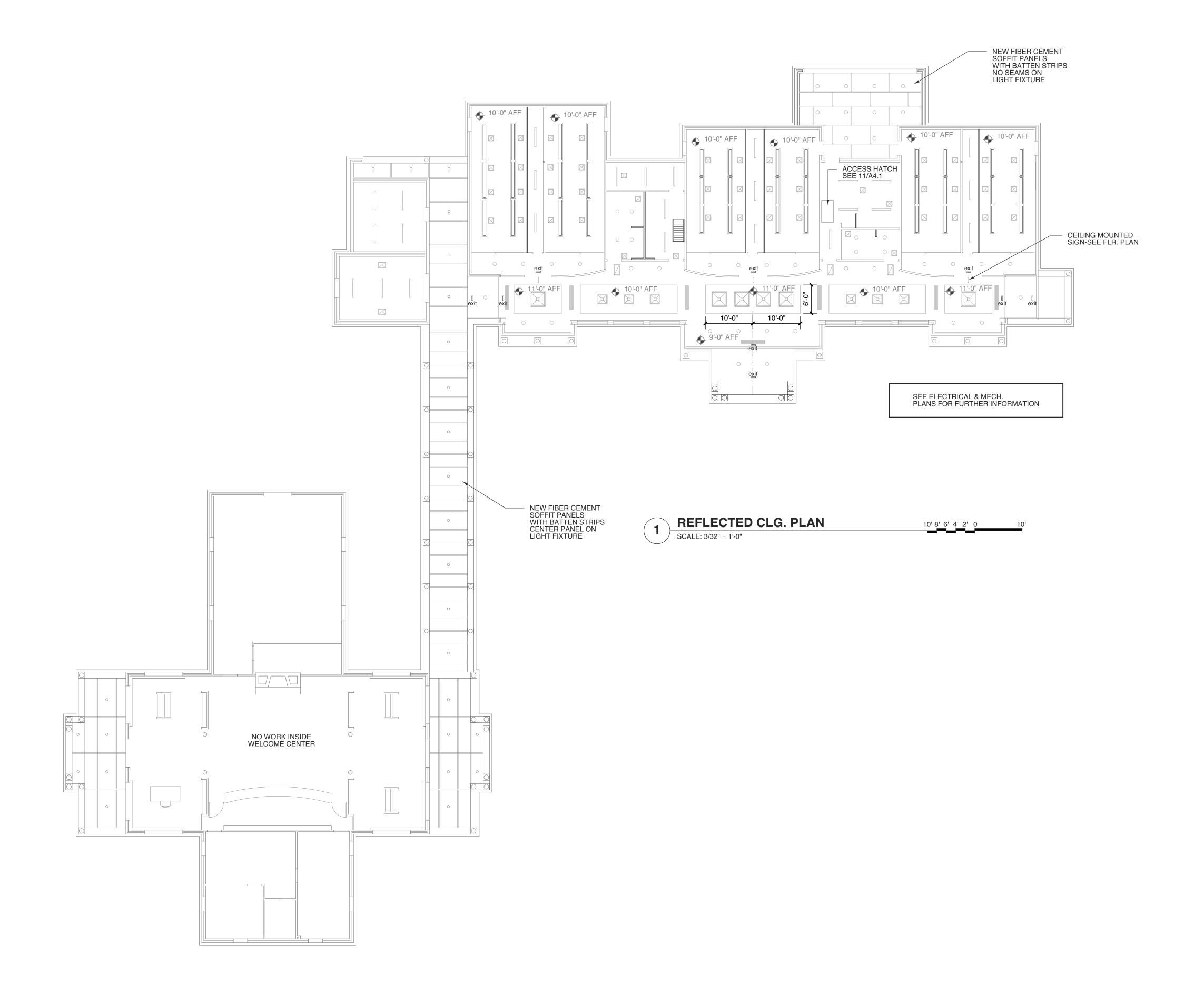
PLOT DATE REVISION

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#### SCO ID# 18-19070-01A

PROJECT TITLE

NORTHAMPTON CTY.
REST AREA-RENOV.
I-95 NEAR VA STATE LINE
PLEASANT HILL, NORTH CAROLINA

PROJECT NO. **1704a** 

DRAWING TITLE
RCP PLAN

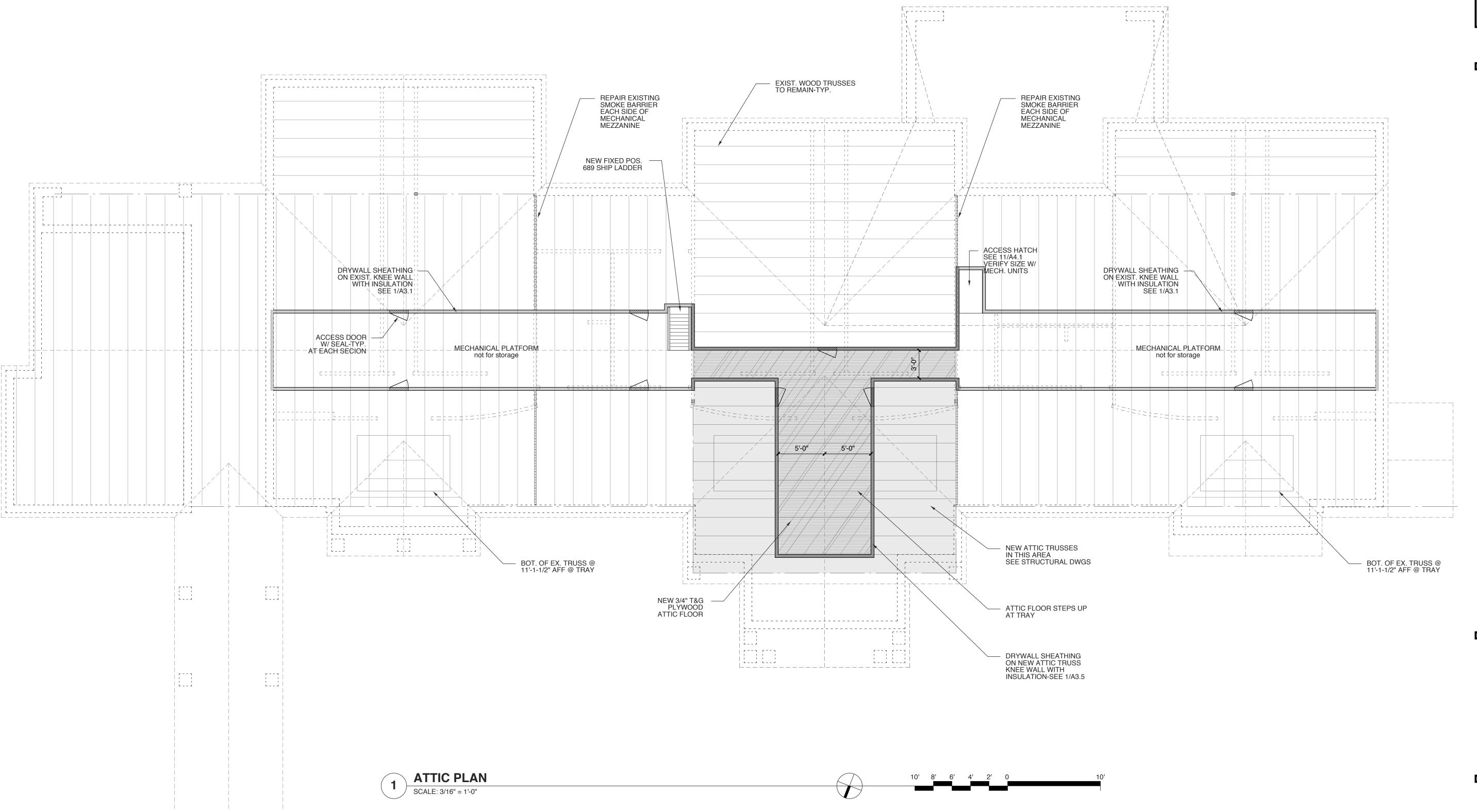
SHEET 5 OF

A1.3

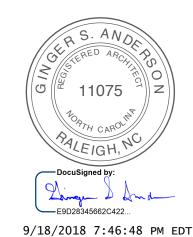
PLOT DATE 9/18/18
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3, 10, 2010 71 101 10 111 251

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PROJECT TITLE

NORTHAMPTON CTY.

REST AREA-RENOV.

I-95 NEAR VA STATE LINE
PLEASANT HILL, NORTH CAROLINA

PROJECT NO. **1704a** 

DRAWING TITLE

ATTIC PLAN

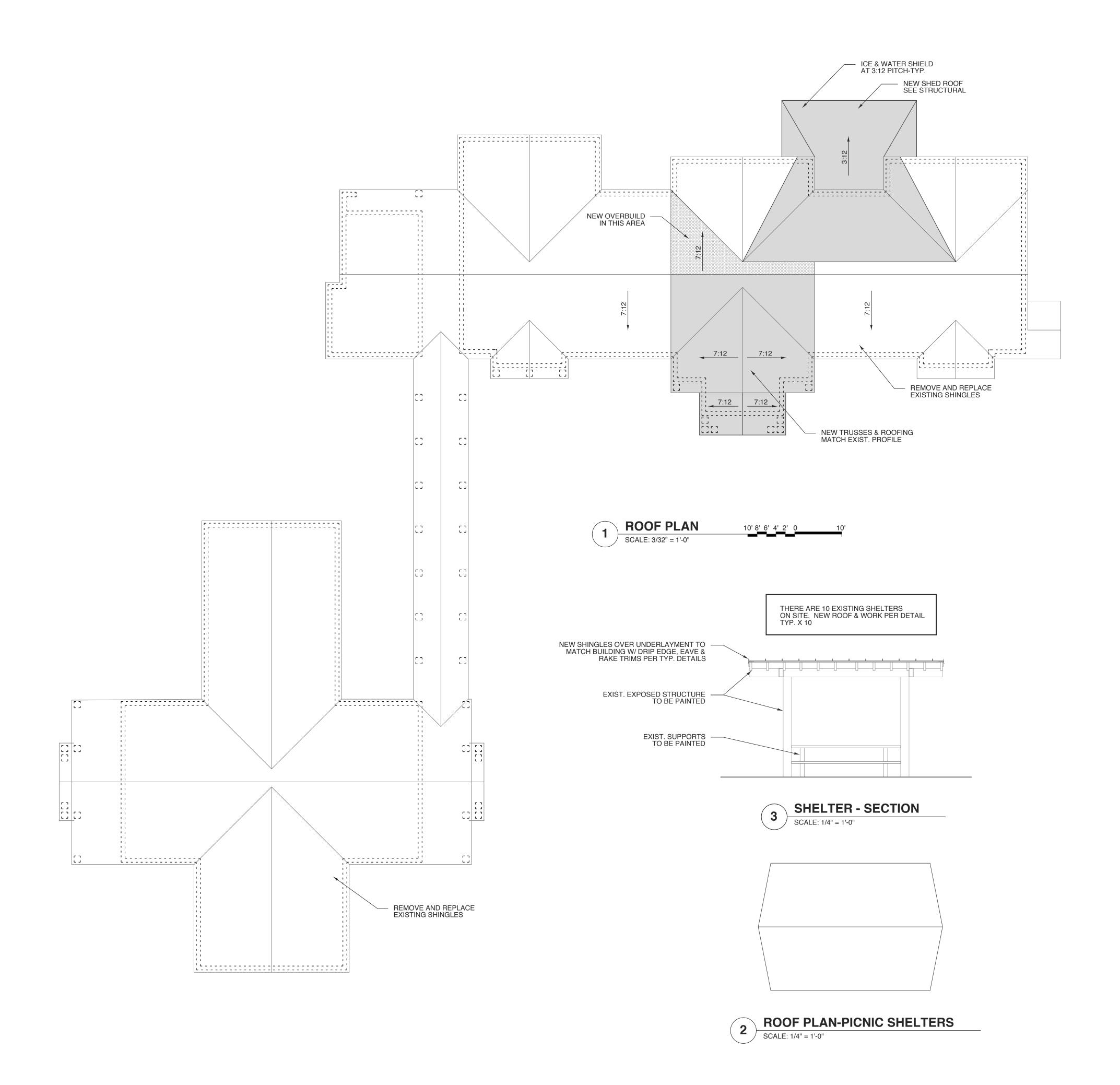
SHEET 6 OF

A1.4

PLOT DATE 9/18/18
REVISION 00/00/08

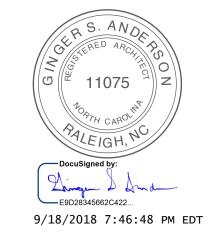
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PROJECT TITLE

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REST AREA-RENOV.

I-95 NEAR VA STATE LINE
PLEASANT HILL, NORTH CAROLINA

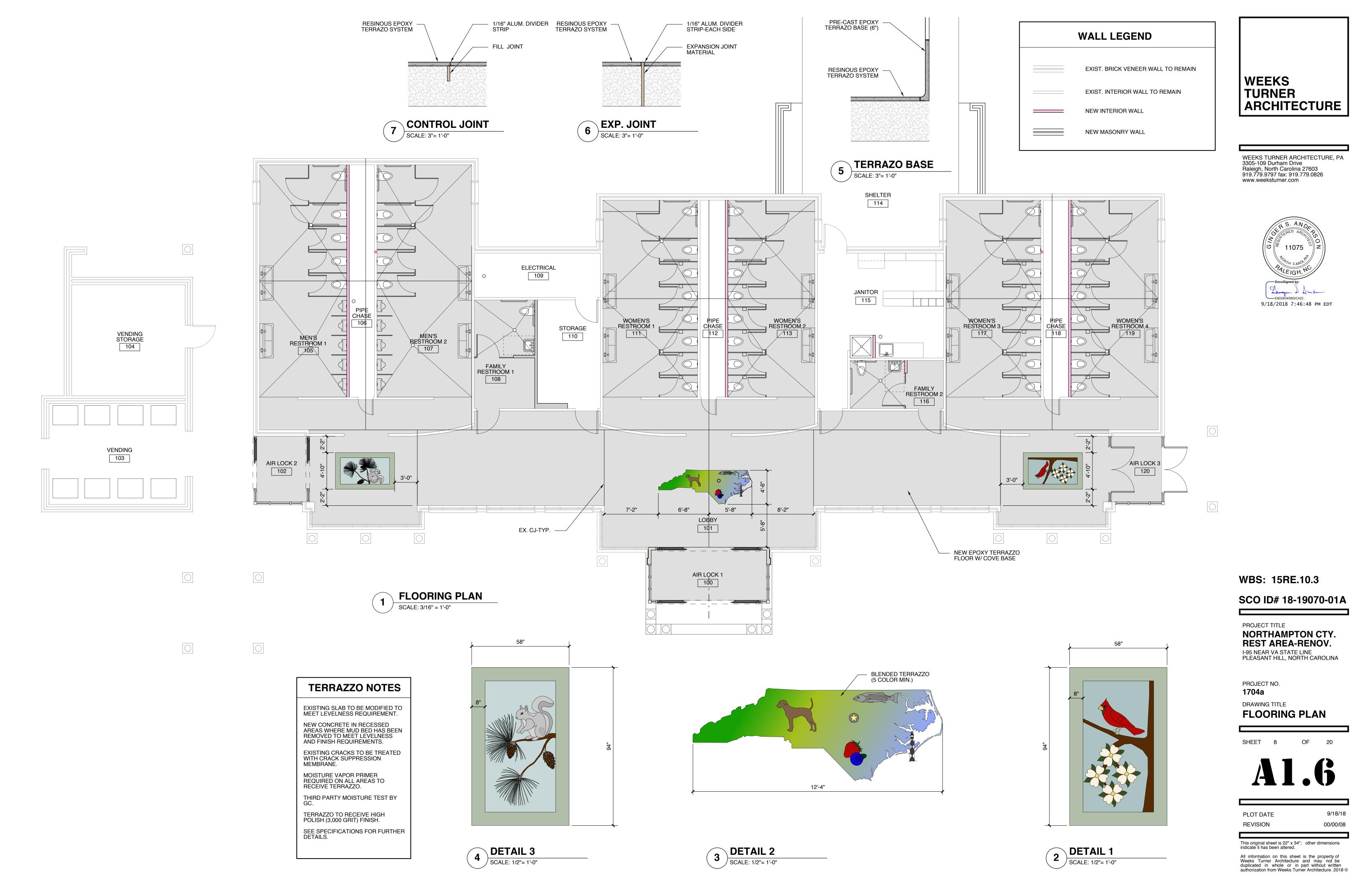
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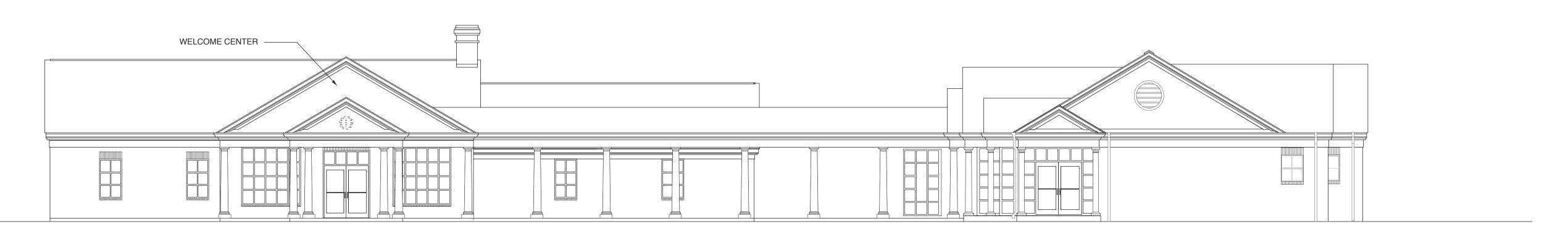
DRAWING TITLE
ROOF PLAN

SHEET 7 OF 2

A1.5

PLOT DATE 9/18/18
REVISION 00/00/08



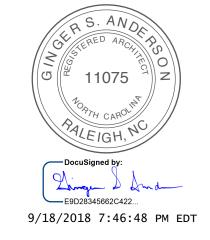


WEST ELEVATION

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



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NORTH ELEVATION

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

WBS: 15RE.10.3

SCO ID# 18-19070-01A

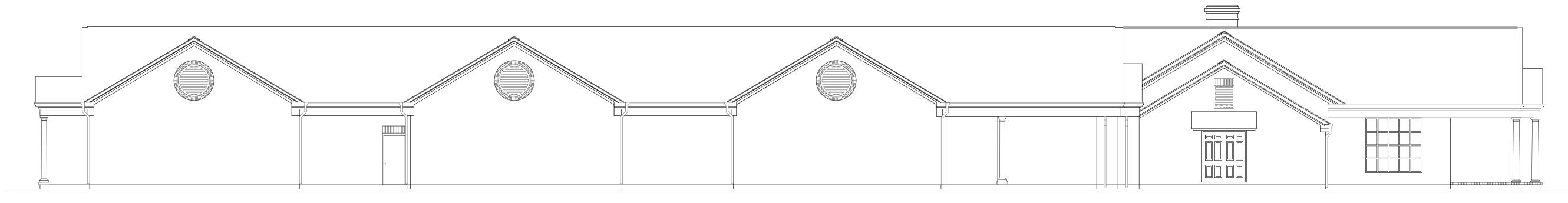
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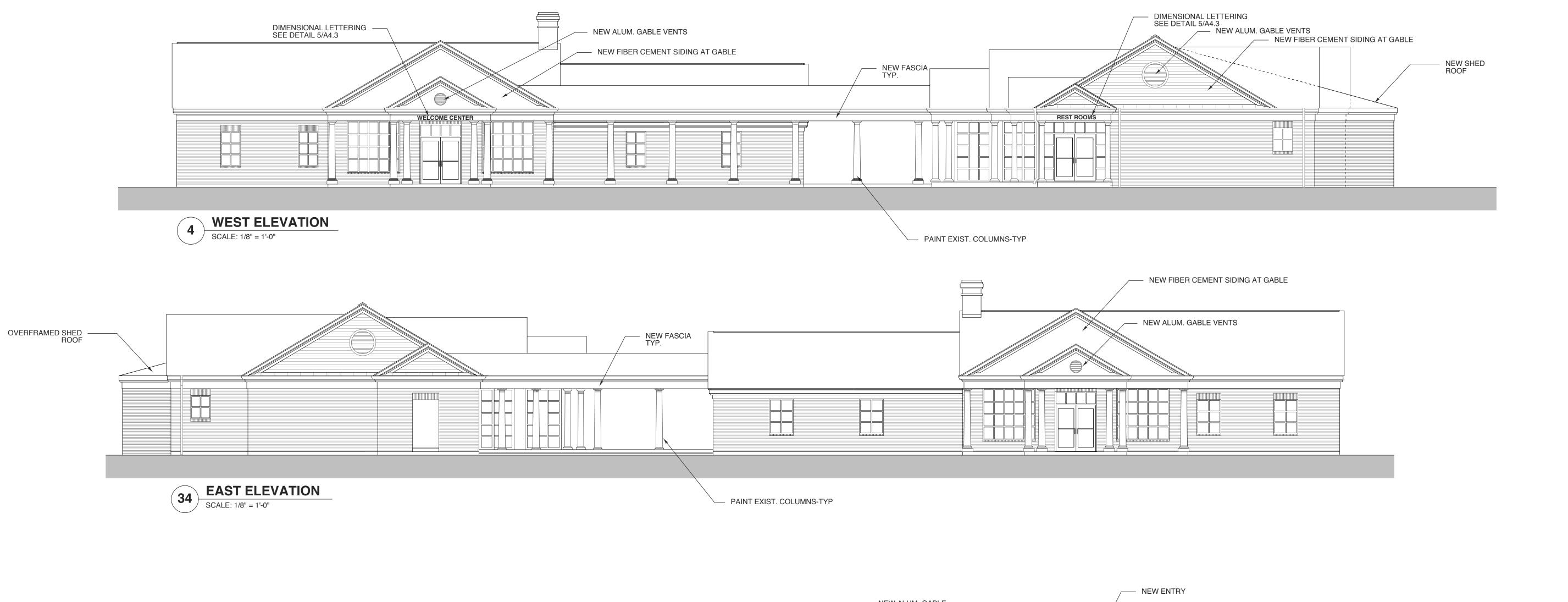
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**EXIST. ELEVATIONS** 

PLOT DATE REVISION

9/18/18



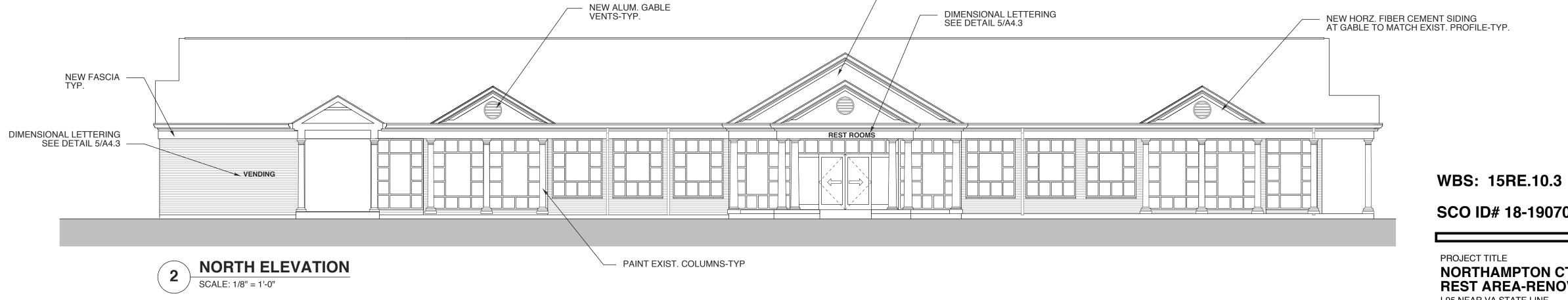


NEW ALUM. GABLE VENTS-TYP.



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DIMENSIONAL LETTERING SEE DETAIL 5/A4.3

RESTROOMS

VENDING

AND ->

SCO ID# 18-19070-01A

PROJECT TITLE NORTHAMPTON CTY. **REST AREA-RENOV.** I-95 NEAR VA STATE LINE PLEASANT HILL, NORTH CAROLINA

1704a DRAWING TITLE

PROJECT NO.

NEW ALUM. GABLE VENTS-TYP.

- NEW SHINGLES

**REV ELEVATIONS** 

SHEET 10

9/18/18 PLOT DATE REVISION 00/00/08

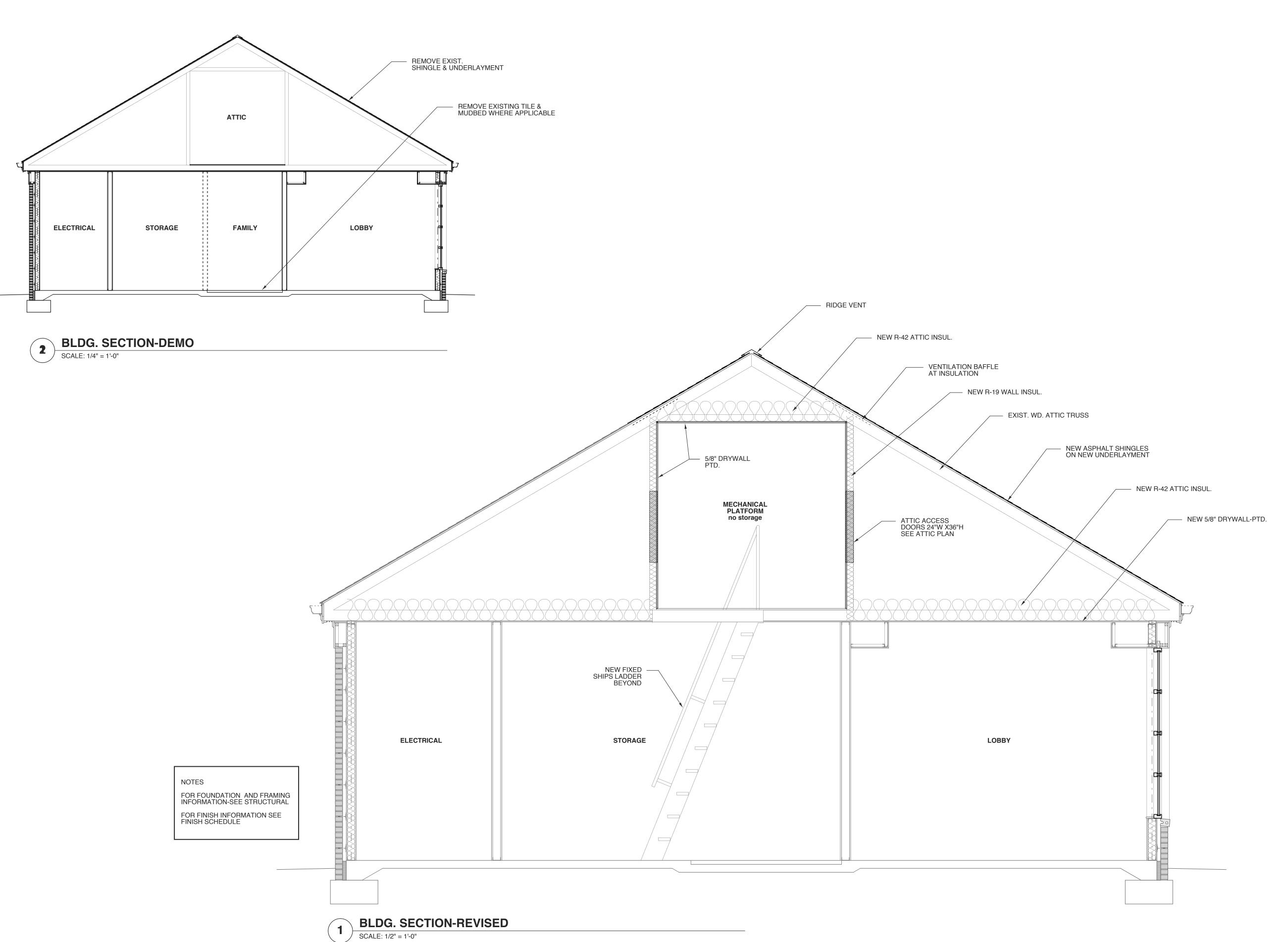
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**SOUTH ELEVATION** 

NEW FASCIA TYP.

OVERFRAMED SHED ROOF



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PROJECT TITLE

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I-95 NEAR VA STATE LINE
PLEASANT HILL, NORTH CAROLINA

PLEASANT HILL, NORTH CAROLINA

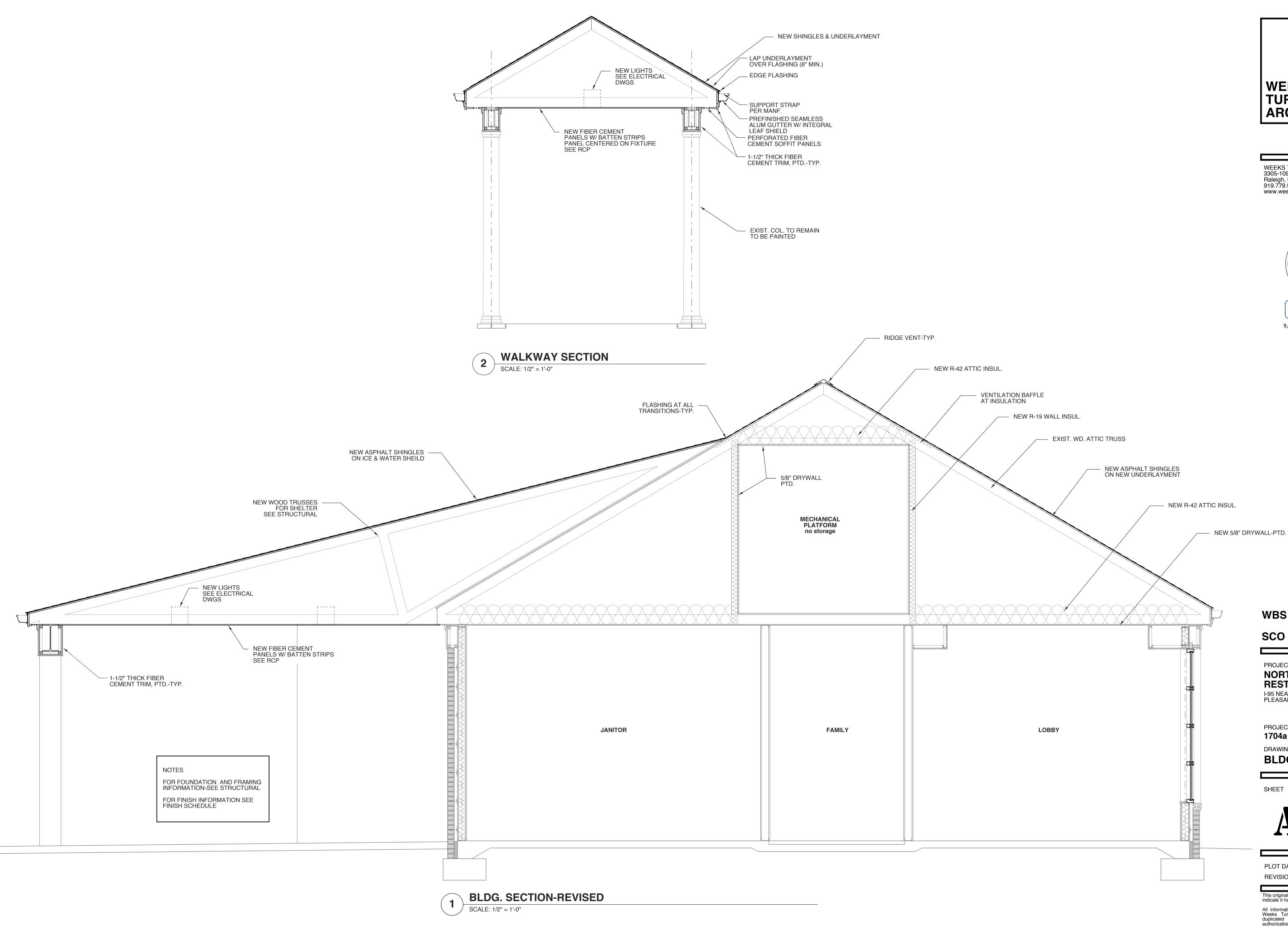
1704a
DRAWING TITLE
BLDG. SECTION

PROJECT NO.

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A3.1

PLOT DATE 9/18/18
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PROJECT TITLE NORTHAMPTON CTY. **REST AREA-RENOV.** 

I-95 NEAR VA STATE LINE PLEASANT HILL, NORTH CAROLINA

PROJECT NO. 1704a DRAWING TITLE

**BLDG. SECTION** 

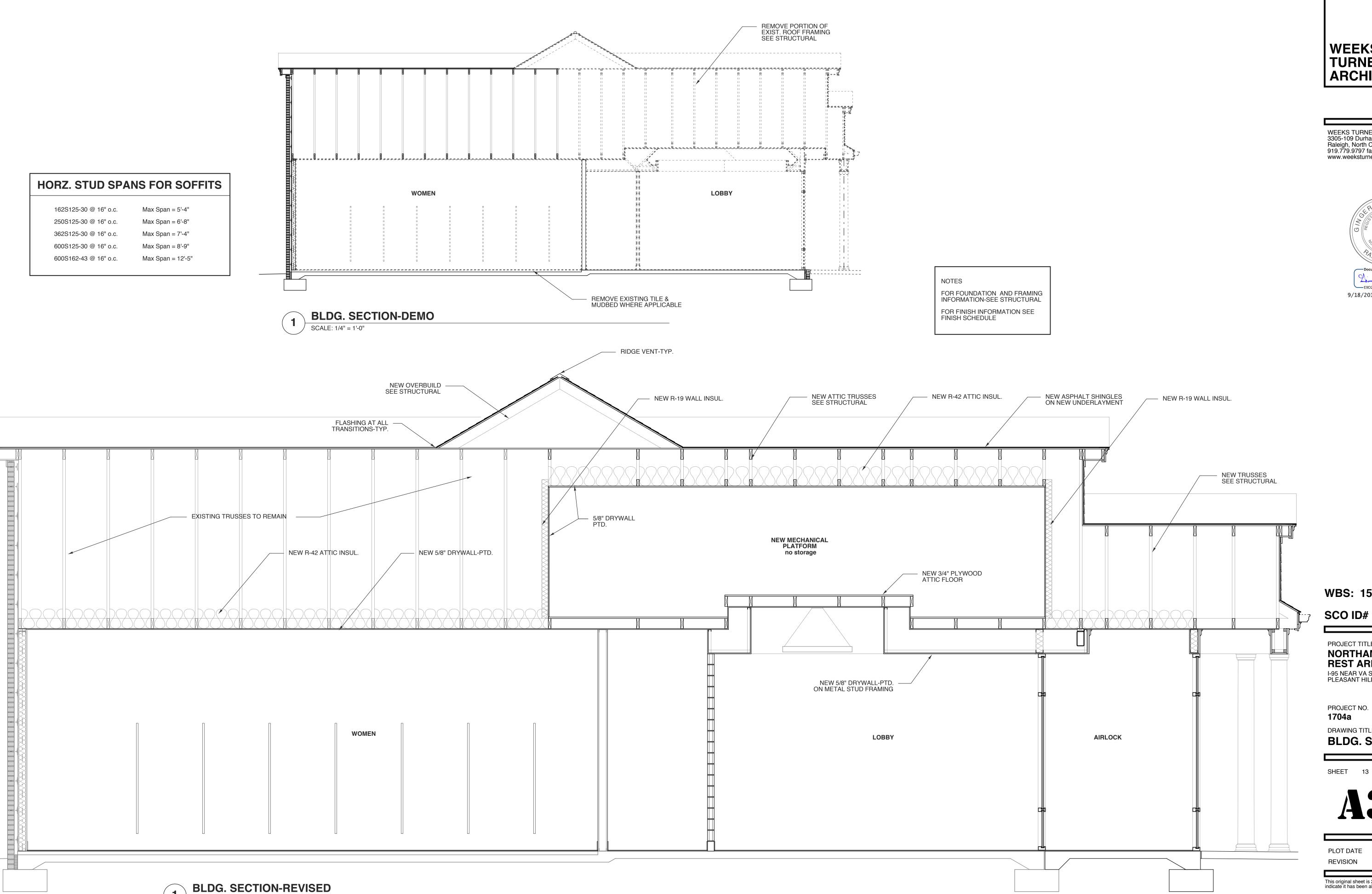
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SCALE: 1/2" = 1'-0"

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PROJECT TITLE NORTHAMPTON CTY. **REST AREA-RENOV.** I-95 NEAR VA STATE LINE PLEASANT HILL, NORTH CAROLINA

1704a DRAWING TITLE

**BLDG. SECTION** 

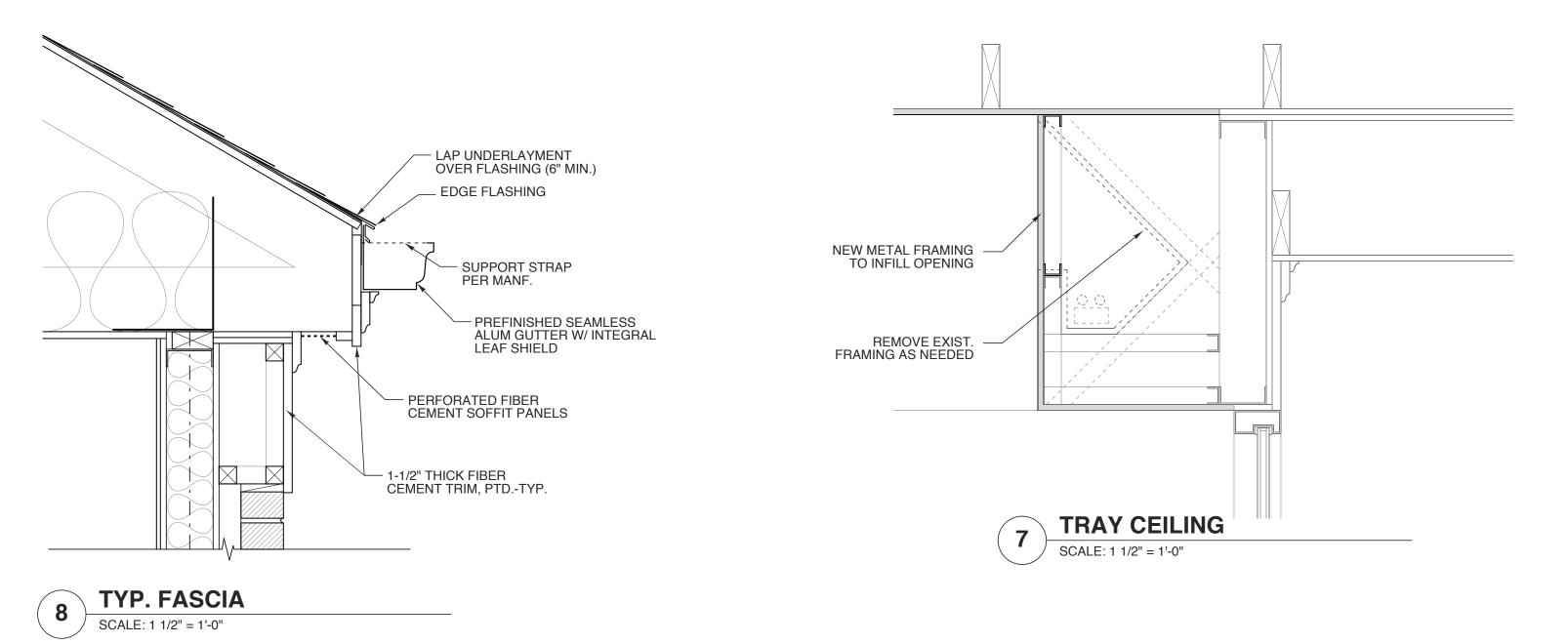
SHEET 13

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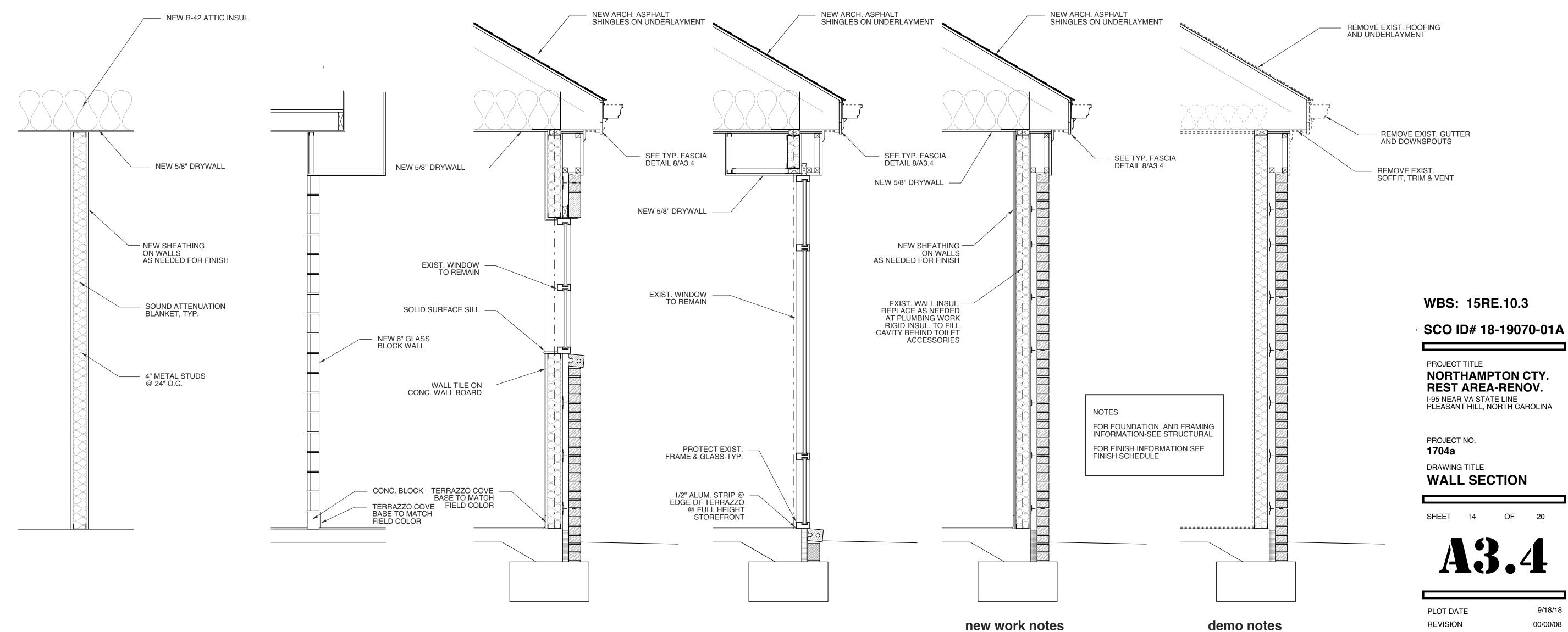
9/18/18





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GLASS BLOCK WALL SECT. SCALE: 3/4" = 1'-0"

4 EXT. WALL SECT.

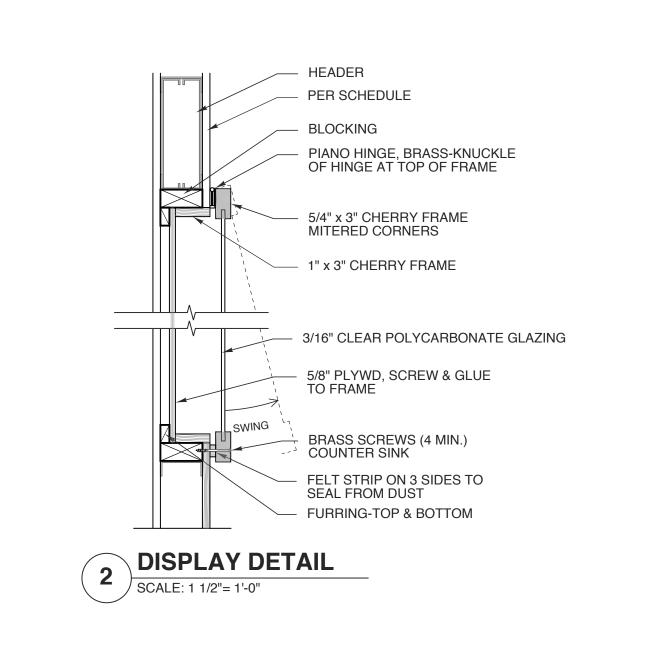
SCALE: 3/4" = 1'-0"

**EXT. WALL SECT.**SCALE: 3/4" = 1'-0"

TYP. EXT. WALL SECT. SCALE: 3/4" = 1'-0"

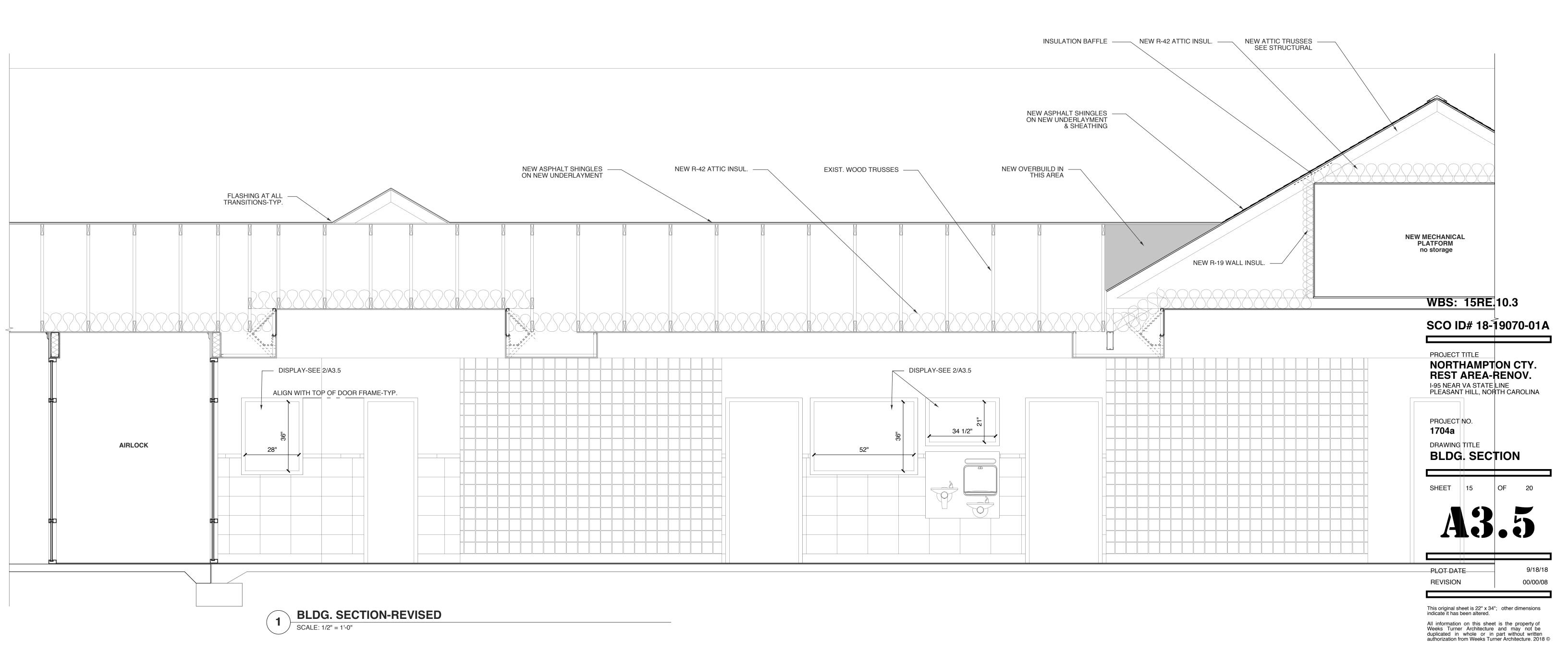
TYP EXIST. EXT. WALL SECT. SCALE: 3/4" = 1'-0"

REVISION 00/00/08

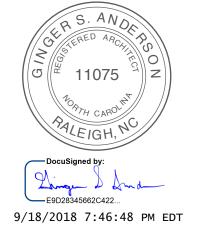


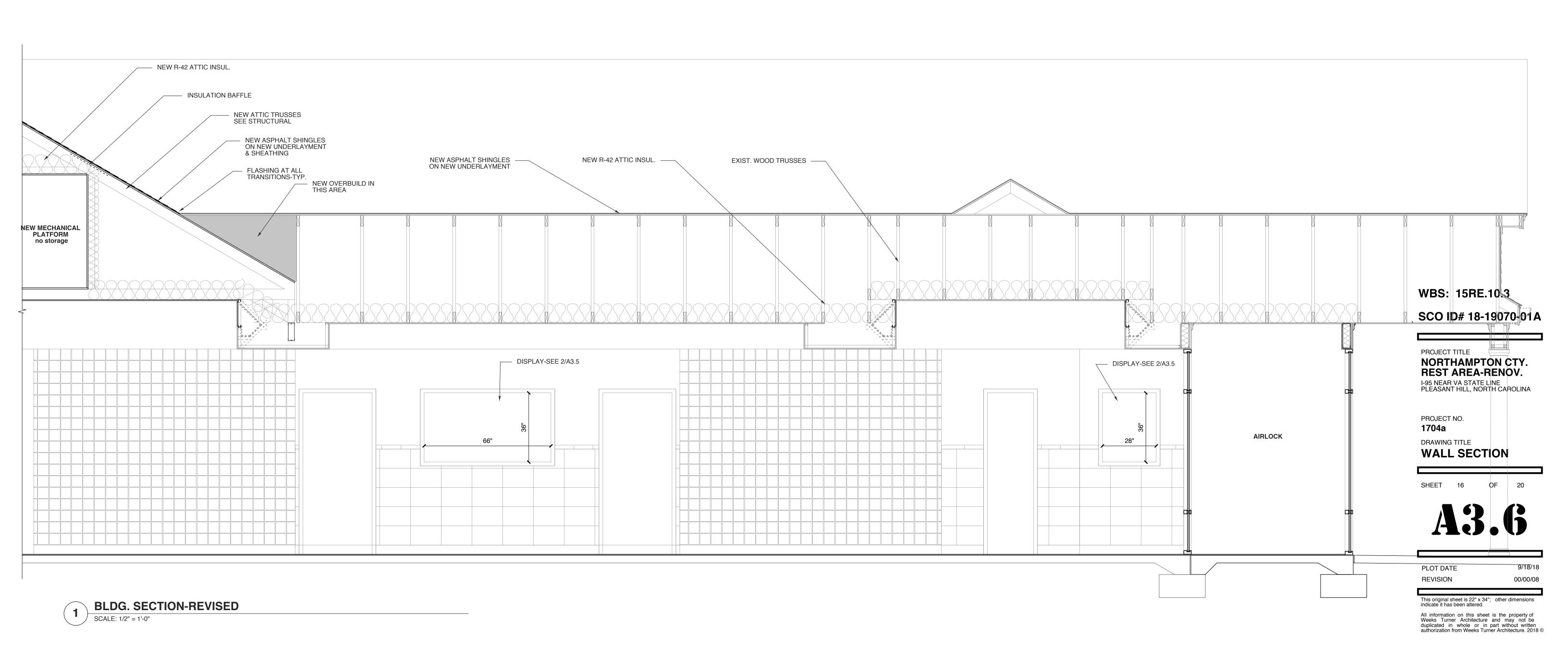


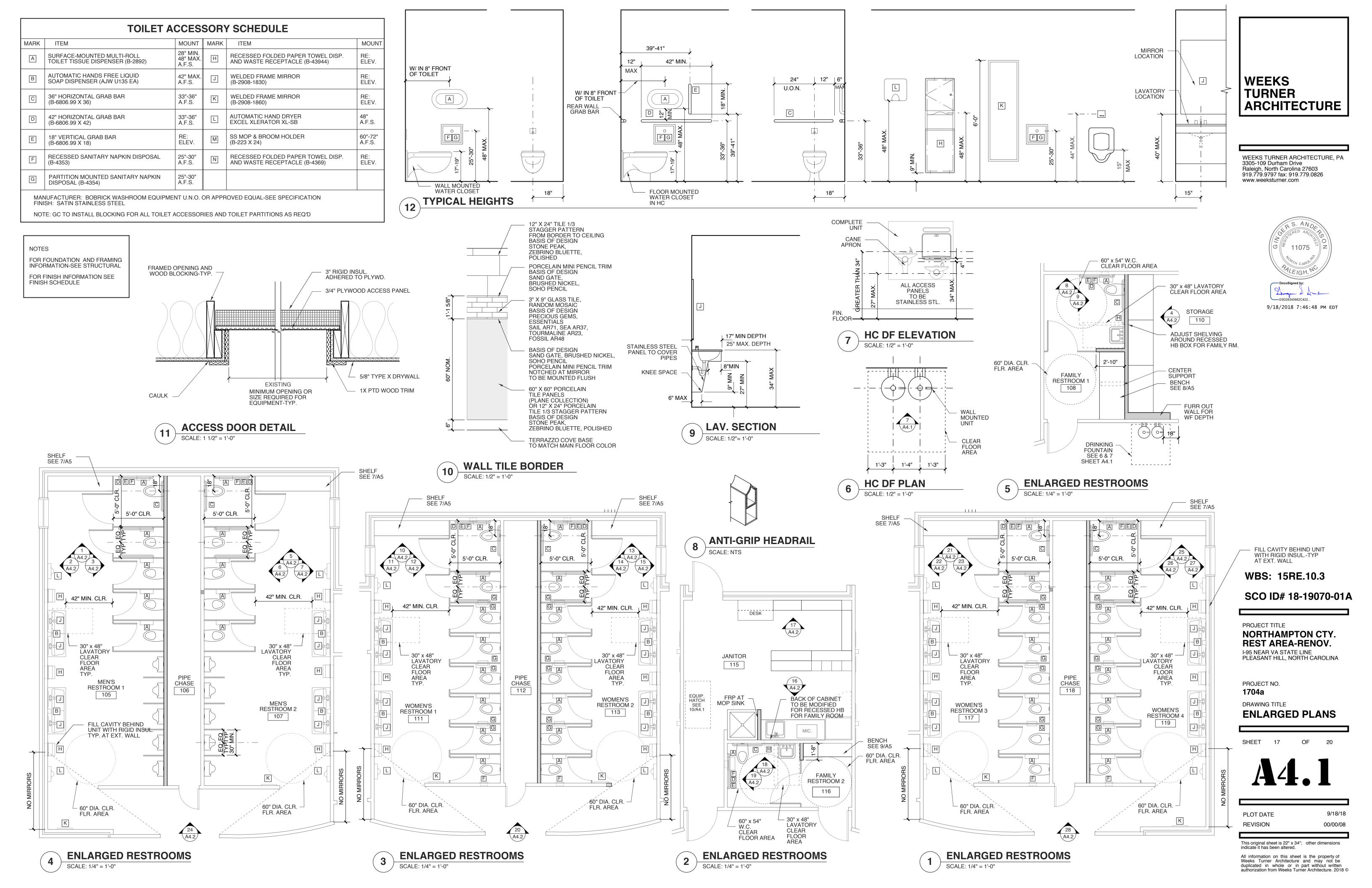
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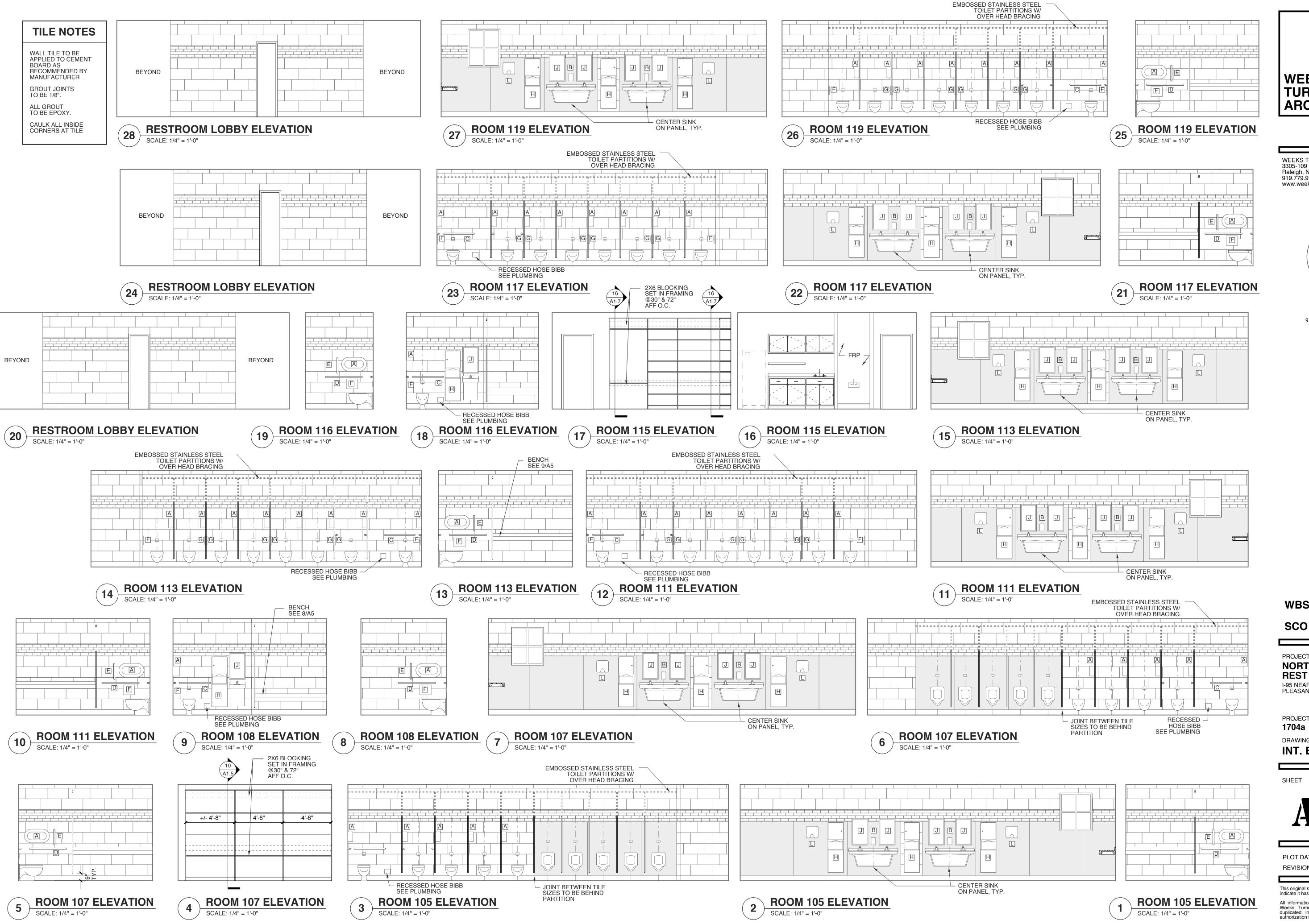


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PROJECT TITLE NORTHAMPTON CTY. **REST AREA-RENOV.** I-95 NEAR VA STATE LINE PLEASANT HILL, NORTH CAROLINA

PROJECT NO.

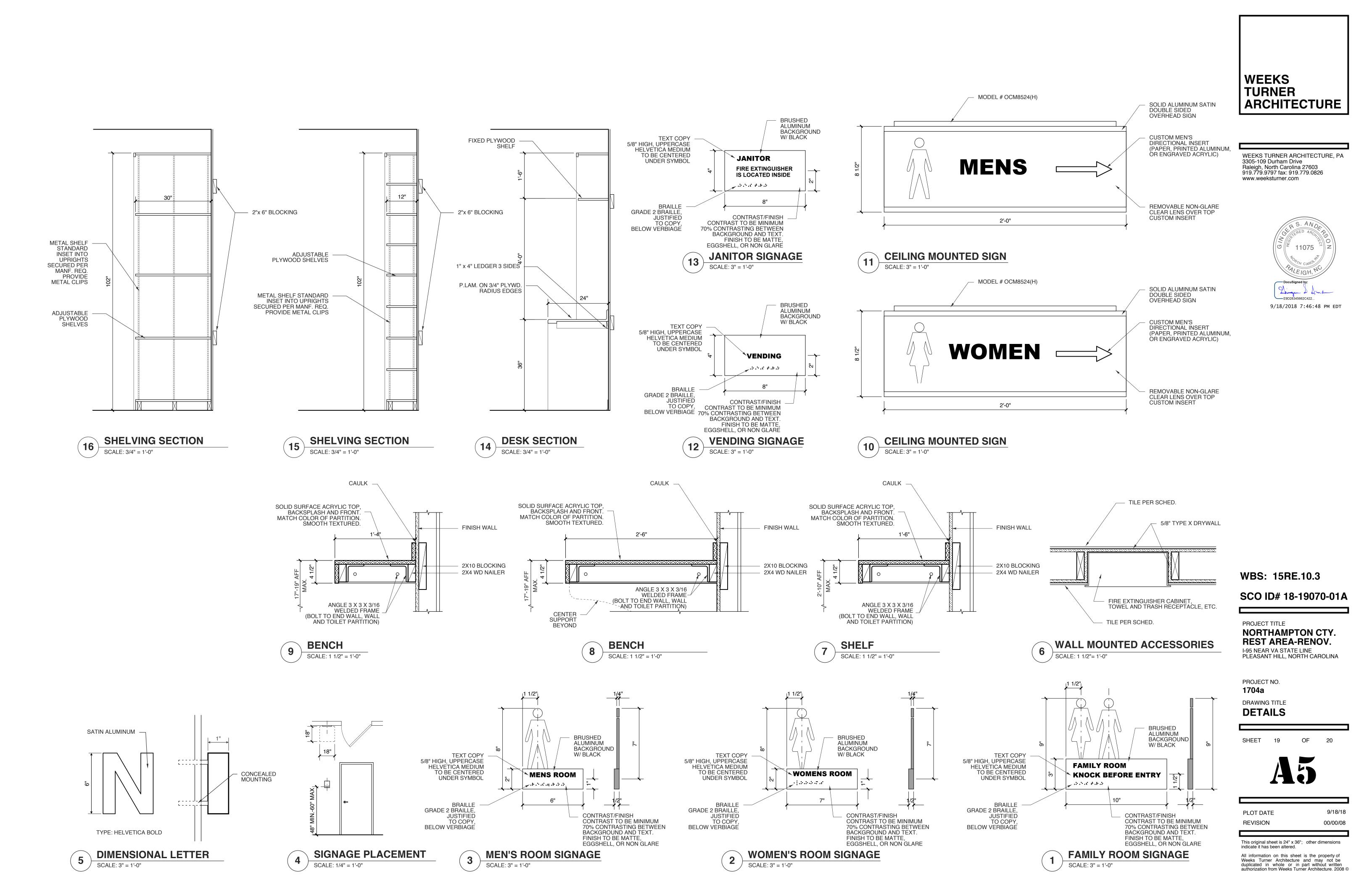
DRAWING TITLE **INT. ELEVATIONS** 

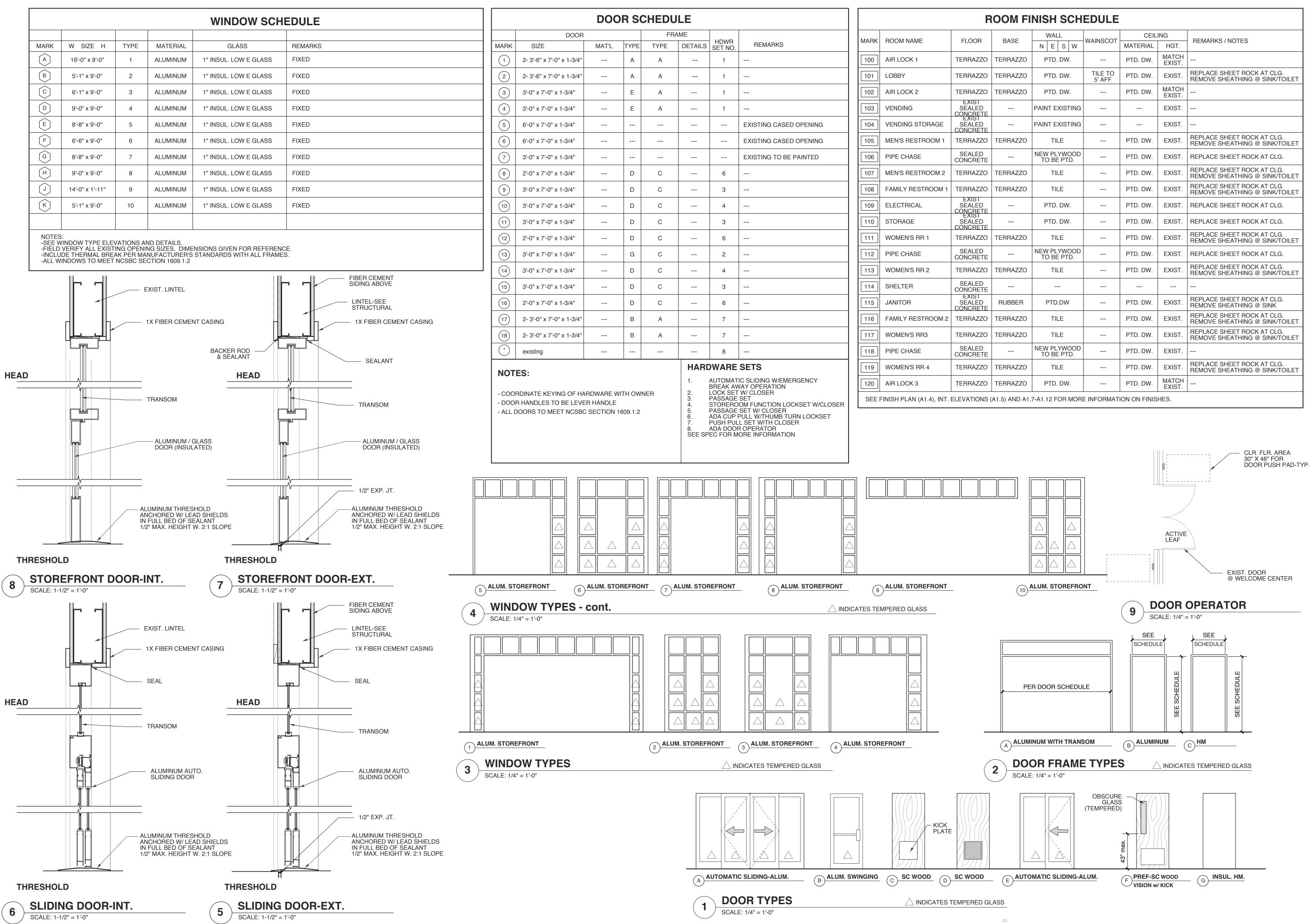
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PROJECT NO. 1704a

SHEET

DRAWING TITLE **SCHEDULES/DETAILS** 



PLOT DATE 9/18/18 **ISSUE DATE** 8/10/17

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#### GENERAL STRUCTURAL NOTES

THESE DRAWINGS, AS INSTRUMENTS OF PROFESSIONAL SERVICE, ARE THE PROPERTY OF LYSAGHT & ASSOCIATES, P.A., FOR USE SOLELY WITH THIS PROJECT AND SHALL NOT BE REPRODUCED FOR OTHER PURPOSES.

THE PROFESSIONAL ENGINEER WHOSE SEAL APPEARS ON THESE DRAWINGS IS THE PROJECT STRUCTURAL ENGINEER-OF-RECORD (SER) WHO BEARS LEGAL RESPONSIBILITY FOR THE PERFORMANCE OF NEW STRUCTURAL FRAMING RELATING TO PUBLIC HEALTH, SAFETY, AND WELFARE. NO OTHER PARTY, WHETHER OR NOT A PROFESSIONAL ENGINEER, MAY COMPLETE, CORRECT, REVISE, DELETE, OR ADD TO THESE CONSTRUCTION DOCUMENTS OR PERFORM INSPECTIONS OF THE WORK WITHOUT THE WRITTEN PERMISSION OF THE SER.

USE STRUCTURAL DRAWINGS IN CONJUNCTION WITH JOB SPECIFICATIONS, AND OTHER DRAWINGS.

SECTIONS AND DETAILS SHOWN SHALL BE CONSIDERED TYPICAL FOR ALL SIMILAR

ALL NON-STRUCTURAL ELEMENTS INDICATED ON THE STRUCTURAL DRAWINGS HAVE BEEN SHOWN IN GENERAL RELATIONSHIP TO THE STRUCTURAL ELEMENTS. THEY SHALL NOT BE ASSUMED TO BE ACCURATE AND REFERENCE MUST BE MADE TO THE APPROPRIATE CONSULTANT(S) PLANS AND SPECIFICATIONS.

CONTRACTOR SHALL VERIFY ALL CONDITIONS IN THE FIELD AND TAKE ALL NECESSARY FIELD MEASUREMENTS.

CONTRACTOR SHALL TAKE SUCH ACTION AS NECESSARY TO PREVENT MOVEMENT OF OR DAMAGE TO THE EXISTING STRUCTURE DURING CONSTRUCTION.

THE STRUCTURE SHOWN ON THESE DRAWINGS IS STRUCTURALLY SOUND ONLY IN ITS COMPLETED FORM. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY BRACING TO STABILIZE THE BUILDING DURING CONSTRUCTION.

#### SCOPE OF STRUCTURAL ENGINEERING SERVICES

LYSAGHT & ASSOCIATES, P.A. HAS PERFORMED THE STRUCTURAL DESIGN AND PREPARED THE STRUCTURAL WORKING DRAWINGS FOR THIS PROJECT. "CONSTRUCTION REVIEW" SERVICES ARE ALSO A PART OF OUR CONTRACT. THE CONTRACTOR SHALL NOTIFY THE STRUCTURAL ENGINEER AT THE FOLLOWING STAGES OF CONSTRUCTION FOR A FIELD REVIEW OF THE WORK:

- AFTER COMPLETION OF FRAMING ACTIVITIES, BEFORE INTERIOR FINISHES ARE INSTALLED.
- AT ANY STAGE OF CONSTRUCTION WHEN DESIGN OR CONSTRUCTION PROBLEMS ARE ENCOUNTERED.

A "CONSTRUCTION REVIEW REPORT" WILL BE SENT TO THE CONTRACTOR FOLLOWING

PORTIONS OF THE STRUCTURAL DESIGN (AS NOTED ON THE DRAWINGS AND IN THESE NOTES) ARE THE RESPONSIBILITY OF THE MATERIAL SUPPLIERS. SHOP DRAWINGS FOR EACH OF THE STRUCTURAL COMPONENTS MUST BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW PRIOR TO FABRICATION AND ERECTION.

THE STRUCTURAL ENGINEER IS RESPONSIBLE FOR THE DESIGN OF THE PRIMARY STRUCTURAL SYSTEM, EXCEPT FOR THE COMPONENTS NOTED ABOVE. RESPONSIBILITY FOR ANY SECONDARY STRUCTURAL AND NON-STRUCTURAL SYSTEMS NOT SHOWN ON THE STRUCTURAL PLANS RESTS WITH SOMEONE OTHER THAN THE STRUCTURAL ENGINEER.

THE STRUCTURAL ENGINEER HAS NOT DONE A SUBSURFACE INVESTIGATION (HE IS NOT A SOILS SPECIALIST). THE FOUNDATION DESIGN IS BASED UPON AN ASSUMED ALLOWABLE BEARING PRESSURE AS SHOWN IN THE "FOUNDATION" STRUCTURAL NOTES. THIS ALLOWABLE BEARING PRESSURE MUST BE VERIFIED BY THE CONTRACTOR OR OWNER. IF PROBLEMS ARE ENCOUNTERED, A SOILS ENGINEER SHOULD BE RETAINED TO EVALUATE THE CONDITIONS AND RECOMMEND THE APPROPRIATE FOUNDATION SYSTEM.

THE STRUCTURAL ENGINEER IS NOT RESPONSIBLE FOR, AND WILL NOT HAVE CONTROL OF, CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES. OR FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE CONSTRUCTION WORK; NOR WILL HE BE RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO CARRY OUT THE CONSTRUCTION WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

FIELD MEASUREMENTS AND THE VERIFICATION OF FIELD DIMENSIONS ARE NOT PART OF THE STRUCTURAL ENGINEER'S RESPONSIBILITY. THE CONTRACTOR MUST CHECK ALL (ASSUMED) EXISTING CONDITIONS SHOWN ON THESE DRAWINGS FOR ACCURACY AND NOTIFY THE STRUCTURAL ENGINEER OF ANY DISCREPANCIES.

#### **ABBREVIATIONS**

A.F.F. C.J. E.W. N.T.S. O.C. S-P-F SYP T.O.F. T.O.S. U.N.O.	ANCHOR BOLT ABOVE FINISH FLOOR CONTROL OR CONSTRUCTION JOINT IN SLAB EACH WAY NOT TO SCALE ON CENTER SPRUCE PINE FIR LUMBER SOUTHERN YELLOW PINE LUMBER TOP OF FOOTING TOP OF STEEL UNLESS NOTED OTHERWISE WELDED WIRE FABRIC
CODE	
	AROLINA STATE BUILDING CODE — 2012 EDI G OCCUPANCY CATEGORY
DEGIGN	IOADS

SPECTRAL RESPONSE COEFFICIENT

SEISMIC DESIGN CATEGORY

DITION

		• •	
DESIGN LOADS			
ROOF DEAD LOAD ROOF LIVE LOAD ATTIC LIVE LOAD (Mechanical Platform Only FLOOR LIVE LOAD	·)	20 PSF 20 PSF 25 PSF 100 PSF	<del>.</del>
SNOW LOAD DATA: GROUND SNOW LOAD SNOW EXPOSURE FACTOR SNOW LOAD IMPORTANCE FACTOR THERMAL FACTOR FLAT ROOF SNOW LOAD ROOF SLOPE FACTOR PITCHED ROOF SNOW LOAD		15 PSF 1.0 1.0 1.0 10.5 PSF 1.0 15.5 PSF	<del>.</del>
WIND LOAD DATA: DESIGN WIND SPEED (ASCE 7-05) WIND IMPORTANCE FACTOR WIND EXPOSURE INTERNAL PRESSURE COEFFICIENTS WIND PRESSURE FOR COMPONENTS / CLADDING	<b>3</b>	95 MPH 1.0 C +0.18, - PER ASCE	-0.18
SEISMIC LOAD DATA: SEISMIC IMPORTANCE FACTOR MAPPED SPECTRAL RESPONSE ACCELERATION MAPPED SPECTRAL RESPONSE ACCELERATION SITE CLASS SPECTRAL RESPONSE COEFFICIENT	I Ss S1 SDS	0.060 D	

SDS SD1

0.096

#### **FOUNDATIONS**

ALL FOOTINGS SHALL REST ON SOIL CAPABLE OF SAFELY SUPPORTING 2000 PSF. CONTACT STRUCTURAL ENGINEER IF UNSATISFACTORY SUBSURFACE CONDITIONS ARE ENCOUNTERED.

FOOTINGS SHALL BE CARRIED TO A LOWER ELEVATION THAN THOSE INDICATED ON THESE DRAWINGS IF NECESSARY TO REACH FIRM UNDISTURBED SOIL.

THE BOTTOM OF ALL EXTERIOR FOOTINGS SHALL BE A MINIMUM OF 16" BELOW FINISHED GRADE UNLESS NOTED OTHERWISE.

SLAB ON GRADE SHALL BE FOUNDED ON STABLE NATURAL SOIL OR CONTROLLED COMPACTED FILL. THE MINIMUM BEARING CAPACITY SHALL BE 2000 PSF.

ALL FILL SHALL BE PLACED IN 8" MAXIMUM LOOSE LIFTS AND SHALL BE COMPACTED TO A MINIMUM OF 95 PERCENT MAXIMUM DRY DENSITY AS DETERMINED IN ACCORDANCE WITH ASTM D-698 (STANDARD PROCTOR METHOD). THIS REQUIREMENT SHOULD BE INCREASED TO 98 PERCENT OF ASTM D-698 IN THE FINAL FOOT BENEATH FOOTINGS, FLOOR SLABS, AND PAVEMENTS.

#### CONCRETE

CONCRETE SHALL BE PROPORTIONED, MIXED AND PLACED IN ACCORDANCE WITH ACI "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE", AND ACI 301, SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS". ANY ADMIXTURES MUST BE APPROVED BY THE STRUCTURAL ENGINEER.

ADMIXTURES CONTAINING CHLORIDE SALTS ARE NOT PERMITTED.

MINIMUM 28 DAY COMPRESSIVE STRENGTH OF CONCRETE SHALL BE 3000 PSI. USE NORMAL WEIGHT CONCRETE FOR FOOTINGS AND SLABS ON GRADE.

CONCRETE EXPOSED TO EXTERIOR CONDITIONS SHALL BE AIR-ENTRAINED WITH A TOTAL AIR CONTENT OF 6 PERCENT (+/-1.5%).

DO NOT CAST CONCRETE IN WATER OR ON FROZEN GROUND. FOR SLABS ON GRADE. LIGHTLY DAMPEN THE SUBGRADE BEFORE PLACING CONCRETE TO PREVENT THE SUBGRADE FROM ABSORBING WATER FROM THE CONCRETE MIX. APPLY WATER AT NEARLY THE SAME RATE IT SOAKS INTO THE SUBGRADE SURFACE.

CRACK CONTROL JOINTS SHALL BE PLACED IN SLABS ON GRADE IN SQUARE PATTERNS AT A MAXIMUM SPACING OF 12' UNLESS NOTED OTHERWISE. PLACE CONTROL JOINTS TO AVOID REENTRANT CORNERS. MAKE SAWCUTS TO FORM WEAKENED PLANE CONTROL JOINTS AS SOON AFTER CONCRETE PLACEMENT AS

START CURING FOR SLABS ON GRADE AS SOON AS THE FINISHERS ARE DONE. APPLY THE CURING COMPOUND IN TWO COATS AT RIGHT ANGLES TO EACH OTHER AND NOT MORE THAN 300 SQUARE FEET PER GALLON, ABOUT 15 MINUTES APART DURING HOT WEATHER, USE A FOG SPRAY TO KEEP THE SURFACE DAMP BEFORE APPLYING A CURING COMPOUND.

#### REINFORCING STEEL

HORIZONTAL REINFORCING.

ALL DETAILING, FABRICATION AND PLACING OF REINFORCING STEEL SHALL BE IN ACCORDANCE WITH THE LATEST "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES", ACI 315.

REINFORCING BARS SHALL BE NEW BILLET STEEL CONFORMING TO ASTM A615, GRADE 60. CLEAR CONCRETE COVER OVER BARS SHALL BE 3" FOR FOOTINGS.

ALL SLABS ON GRADE SHALL BE REINFORCED WITH 6 x 6 W 1.4 x W 1.4 W.W.F. SUPPORT THE MESH AS REQUIRED TO INSURE THAT IT WILL BE LOCATED IN THE UPPER THIRD OF THE SLAB THICKNESS.

PROVIDE CORNER BARS AT ALL FOOTING STEPS AND CORNERS. BARS SHALL BE A MINIMUM OF 2'-6" LONG AND SHALL HAVE THE SAME SIZE AND SPACING AS

LAP ALL SPLICES IN CAST-IN-PLACE CONCRETE AS SPECIFICALLY CALLED FOR, BUT AT LEAST 48 BAR DIAMETERS.

SUBMIT SHOP DRAWINGS TO THE STRUCTURAL ENGINEER FOR REVIEW PRIOR TO FABRICATION

#### BRICK MASONRY

BRICK VENEER SHALL BE OF A QUALITY AT LEAST EQUAL TO THAT REQUIRED BY ASTM SPECIFICATIONS (C216). THE COMPRESSIVE STRENGTH OF BRICK UNITS SHALL BE 4500 PSI MINIMUM.

MORTAR SHALL BE OF A QUALITY AT LEAST EQUAL TO THAT REQUIRED BY ASTM "STANDARD SPECIFICATIONS FOR MORTAR FOR UNIT MASONRY" (C270). USE TYPE "M" OR "S" MORTAR BELOW GRADE. TYPE "N" MORTAR IS PERMITTED ABOVE GRADE.

MASONRY ANCHORS FOR BRICK VENEER SHALL BE CORROSION RESISTANT (HOT DIP GALVANIZED AFTER FABRICATION) AND SHALL HAVE A MAXIMUM SPACING OF 16" HORIZONTALLY AND VERTICALLY.

REFER TO THE ARCHITECTURAL PLANS FOR LOCATIONS OF BRICK EXPANSION JOINTS, OR IF NOT SHOWN, COORDINATE WITH ARCHITECT.

#### CONCRETE MASONRY

CONCRETE MASONRY UNITS SHALL BE ERECTED AS LOAD BEARING CONCRETE MASONRY. COMPLY WITH THE REQUIREMENTS OF ACI 530.1 / ASCE 6 / TMS 602 SPECIFICATION FOR MASONRY STRUCTURES.

CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM SPECIFICATIONS FOR HOLLOW LOAD-BEARING CONCRETE MASONRY UNITS (ASTM C90, ASA A79.1). MORTAR SHALL CONFORM TO THE REQUIREMENTS OF ASTM STANDARD SPECIFICATIONS FOR MORTAR FOR UNIT MASONRY (ASTM C270), TYPE "M" OR "S". THE MINIMUM NET COMPRESSIVE STRENGTH OF MASONRY UNITS SHALL BE 2000 PSI (f'm = 1500 PSI FOR MASONRY SYSTEM).

ALL GROUT USED TO FILL REINFORCED MASONRY CAVITIES AND SHOWN AT OTHER LOCATIONS ON THE PLANS SHALL CONFORM TO ASTM C476 AND SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3000 PSI.

PROVIDE HORIZONTAL JOINT REINFORCEMENT AT 16" O.C. IN ALL CMU WALLS UNLESS NOTED OTHERWISE ON THE DRAWINGS. USE LADDER TYPE DUR-O-WALL REINFORCEMENT, HOT DIP GALVANIZED AFTER FABRICATION. LONGITUDINAL WIRES SHALL BE A MINIMUM OF (2) NO. 9 GAGE.

#### STRUCTURAL STEEL

AND OTHER ENGINEERING DRAWINGS.

FABRICATE AND ERECT ALL STRUCTURAL STEEL IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS (ANSI/AISC 360-05)"

STRUCTURAL STEEL SHALL RECEIVE ONE SHOP COAT OF RUST-INHIBITIVE PAINT. STEEL COLUMNS BELOW GRADE THAT ARE NOT ENCASED IN CONCRETE SHALL BE FIELD PAINTED WITH A WATERPROOF MASTIC COMPOUND TO PREVENT CORROSION.

THE STEEL USED SHALL HAVE THE FOLLOWING MINIMUM YIELD STRESS:

WIDE FLANGE SHAPES ('W' SHAPES) CHANNELS, ANGLES, PLATES, MISC. SHAPES 36 KSI (A36) 46 KSI (A500, B or C) HSS TUBE SHAPES

USE F1554 (GRADE 36) BOLTS FOR ALL ANCHOR BOLTS U.N.O. HEADED WELD STUDS SHALL BE MADE OF MATERIAL CONFORMING TO ASTM A108. USE E-70 ELECTRODES FOR ALL SHOP AND FIELD WELDING.

CONNECTIONS BETWEEN STRUCTURAL STEEL MEMBERS SHALL BE AS SHOWN ON STRUCTURAL DRAWING DETAILS. ALTERNATE CONNECTION DETAILS MUST BE APPROVED IN WRITING, BY THE STRUCTURAL ENGINEER OF RECORD, PRIOR TO THE SUBMITTAL OF SHOP DRAWINGS.

FOR MISCELLANEOUS STEEL NOT SHOWN ON THESE DRAWINGS, SEE ARCHITECTURAL

SUBMIT ERECTION AND SHOP DRAWINGS TO THE STRUCTURAL ENGINEER FOR REVIEW PRIOR TO FABRICATION.

#### WOOD TRUSSES

THE WOOD TRUSS FABRICATOR IS RESPONSIBLE FOR THE DESIGN OF THE WOOD TRUSSES. SUBMIT CALCULATIONS WITH THE SHOP DRAWINGS SEALED BY A PROFESSIONAL ENGINEER LICENSED IN NORTH CAROLINA TO THE STRUCTURAL ENGINEER FOR REVIEW PRIOR TO FABRICATION.

LUMBER DEFECTS SUCH AS WANE OR KNOTS OCCURRING IN THE CONNECTOR PLATE AREA MUST NOT AFFECT MORE THAN TEN PERCENT OF REQUIRED PLATE AREA OR NUMBER OF EFFECTIVE TEETH REQUIRED FOR EACH TRUSS MEMBER. CONNECTOR PLATES SHALL BE APPLIED TO BOTH FACES OF TRUSS AT EACH JOINT, AND SHOULD PROVIDE FIRM EVEN CONTACT BETWEEN THE PLATE AND THE WOOD. ALL WOOD MEMBERS SHALL BE ACCURATELY CUT AND FABRICATED SO THAT ALL MEMBERS HAVE GOOD BEARING AND ALL COMPLETED TRUSS UNITS ARE UNIFORM. SEE LATEST EDITION OF TRUSS PLATE INSTITUTE "QUALITY CONTROL MANUAL" FOR TOLERANCES AND OTHER SPECIAL REQUIREMENTS.

THE DESIGN, FABRICATION AND ERECTION OF THE WOOD TRUSSES SHALL COMPLY WITH THE "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION", AND THE DESIGN SPECIFICATION FOR METAL PLATE CONNECTED WOOD TRUSSES"

ALL TRUSSES MUST BE SECURELY BRACED BOTH DURING ERECTION AND AFTER PERMANENT INSTALLATION IN ACCORDANCE WITH WTCA & TRUSS PLATE INSTITUTE DOCUMENT "GUIDE TO GOOD PRACTICE FOR HANDLING, INSTALLING, RESTRAINING, & BRACING OF METAL PLATE CONNECTED WOOD TRUSSES (BCSI)"

THE TRUSS FABRICATOR SHALL SHOW ALL RECOMMENDED BRACING, BOTH TEMPORARY AND PERMANENT, ON THE TRUSS SHOP DRAWINGS. ALSO, THE DRAWINGS MUST SHOW ALL RECOMMENDED DETAILS FOR CONNECTING THE TRUSSES TO EACH OTHER AND/OR THEIR SUPPORTS (IN GENERAL, USE HURRICANE CLIPS).

TRUSS MEMBERS AND COMPONENTS SHALL NOT BE CUT, DRILLED, NOTCHED, SPLICED, OR OTHERWISE ALTERED IN ANY WAY WITHOUT WRITTEN PERMISSION FROM THE DESIGN ENGINEER.

#### SOLID WOOD FRAMING, HEADERS AND PLYWOOD

ALL SOLID WOOD FRAMING SHALL COMPLY WITH THE NATIONAL FOREST PRODUCTS ASSOCIATION "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION."

ALL SOLID FRAMING SHALL BE SPRUCE-PINE-FIR #2 UNLESS NOTED OTHERWISE ON THE PLANS.

PLYWOOD SHALL CONFORM TO THE AMERICAN PLYWOOD ASSOCIATION "PLYWOOD DESIGN SPECIFICATION." PLYWOOD SHALL BE CDX (UNO). PLYWOOD CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE APA "DESIGN/CONSTRUCTION GUIDE - RESIDENTIAL AND COMMERCIAL"

ALL MEMBERS SHALL BE FRAMED, ANCHORED, TIED AND BRACED IN ACCORDANCE WITH GOOD CONSTRUCTION PRACTICE AND THE NORTH CAROLINA STATE BUILDING

ALL WOOD IN CONTACT WITH MASONRY OR EXPOSED TO THE WEATHER SHALL BE SYP #2 PRESSURE PRESERVATIVE TREATED TO THE RETENTIONS REQUIRED BY SECTION 2303 OF THE BUILDING CODE.

NAIL SIZES SPECIFIED ON PLANS AND DETAILS ARE "STANDARD COMMON NAILS".

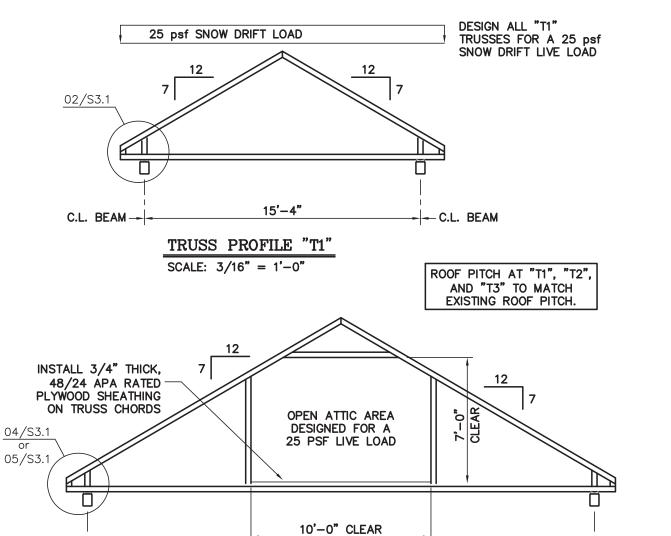
ALL WOOD FRAMING SHALL BE FASTENED IN ACCORDANCE WITH TABLE 2304.9.1.3 OF THE BUILDING CODE.

#### BASIS OF DESIGN HARDWARE / FASTENERS

ALTERNATIVE PRODUCTS, SPECIALTY HARDWARE, & FASTENERS MAY BE SUBSTITUTED FOR THOSE SPECIFIED ON THESE PLANS FROM HILTI, SIMPSON STRONG-TIE, & TrusJoist. SUBSTITUTED PRODUCTS / HARDWARE SHALL HAVE ALLOWABLE DESIGN LOADS EQUAL TO OR GREATER THAN THE SPECIFIED ENTITY. THE CONTRACTOR SHALL INSTALL HARWARE & FASTENERS IN ACCORDANCE WITH THE MANUFACTURER'S

#### ROOF TRUSS DESIGN NOTES

- 1. THE GENERAL CONTRACTOR SHALL VERIFY DIMENSIONS FOR ALL TRUSS TYPES IN THE FIELD PRIOR TO FABRICATION. TRUSS PROFILE DIMENSIONS ARE TO FACE OF STUD.
- 2. TRUSSES SHALL BE SPACED AT 24" O.C. MAXIMUM UNLESS OTHERWISE NOTED ON THE FRAMING PLANS.
- 3. FINAL TRUSS WEB CONFIGURATIONS ARE TO BE DETERMINED BY THE FABRICATOR.
- 4. THE SUPPLIER SHALL PROVIDE CALCULATIONS FOR ALL TRUSS TYPES, SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN NORTH CAROLINA, FOR REVIEW BY THE PROJECT STRUCTURAL ENGINEER OF RECORD PRIOR TO FABRICATION.
- 5. THE SUPPLIER SHALL DESIGN ALL TRUSS TYPES FOR A TOTAL ROOF DEAD LOAD OF 20 PSF (10 PSF AT THE TOP CHORD & 10 PSF AT THE BOTTOM CHORD). THE DESIGN ROOF LIVE LOAD IS 20 PSF ON THE TOP CHORD. DESIGN TRUSS BOTTOM CHORDS FOR A 25 PSF LIVE LOAD AT OPEN ATTIC FLOOR AREAS. DESIGN BOTTOM CHORDS FOR A LIVE LOAD OF 20 PSF, APPLIED TO PORTIONS OF THE BOTTOM CHORD WHERE THERE ARE TWO OR MORE ADJACENT TRUSSES WITH THE SAME WEB CONFIGURATION CAPABLE OF SUPPORTING A RECTANGLE 42" HIGH BY 24" WIDE OR GREATER, LOCATED WITHIN THE PLANE OF THE TRUSS. THE RECTANGLE SHALL FIT BETWEEN THE TOP OF THE BOTTOM CHORD AND THE BOTTOM OF ANY OTHER TRUSS MEMBER. THE BOTTOM CHORD LIVE LOAD SHALL BE APPLIED CONCURRENTLY WITH ALL OTHER DEAD & LIVE LOADS.
- IN ADDITION TO THE DESIGN DEAD AND LIVE LOADS NOTED ABOVE, THE ROOF TRUSSES SHALL BE DESIGNED IN ACCORDANCE WITH ASCE 7-05 FOR A DESIGN WIND SPEED OF 95 MPH WITH EXPOSURE 'C'. 10 PSF MAXIMUM SHALL BE USED FOR THE DEAD LOAD WITH ALL WIND LOAD CASES.
- 6. SPLICES IN TRUSSES SHALL BE LOCATED AS REQUIRED BY THE FABRICATOR AND NOTED ON THE ERECTION DRAWINGS.
- 7. THE ERECTION DRAWINGS SHALL NOTE ALL LOCATIONS OF TEMPORARY BRIDGING OR BRACING REQUIRED TO STABILIZE THE TRUSSES DURING ERECTION, PRIOR TO THE INSTALLATION OF ROOF SHEATHING.
- 8. THE CONTRACTOR SHALL CONSULT THE LATEST EDITION OF BCSI FOR ERECTION BRACING GUIDELINES. PROPER WOOD TRUSS HANDLING AND ERECTION BRACING ARE THE RESPONSIBILITY OF THE CONTRACTOR.

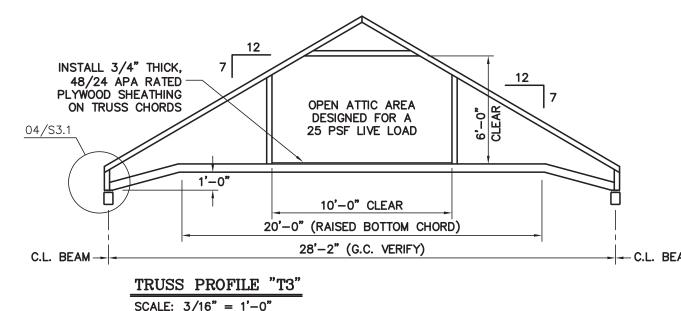


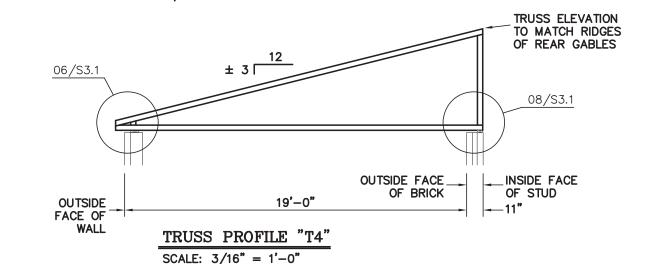
28'-2" (G.C. VERIFY)

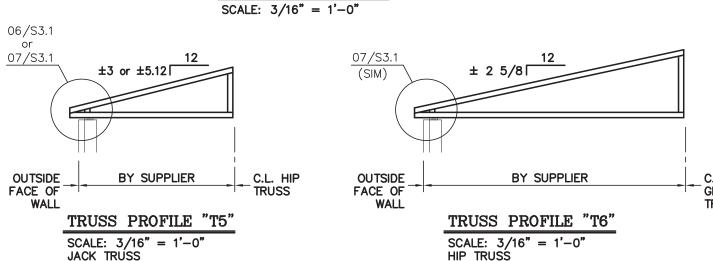
TRUSS PROFILE "T2"

SCALE: 3/16" = 1'-0"

(or WALL)



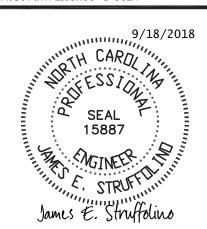






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WBS: 15RE.10.3 SCO ID# 18-19070-01A

PROJECT TITLE NORTHAMPTON CTY. REST AREA-RENOV I-95 NEAR VA STATE LINE PLEASANT HILL, NORTH CAROLINA

PROJECT NO. LA-11835 DRAWING TITLE STRUCTURAL **NOTES** 

SHEET

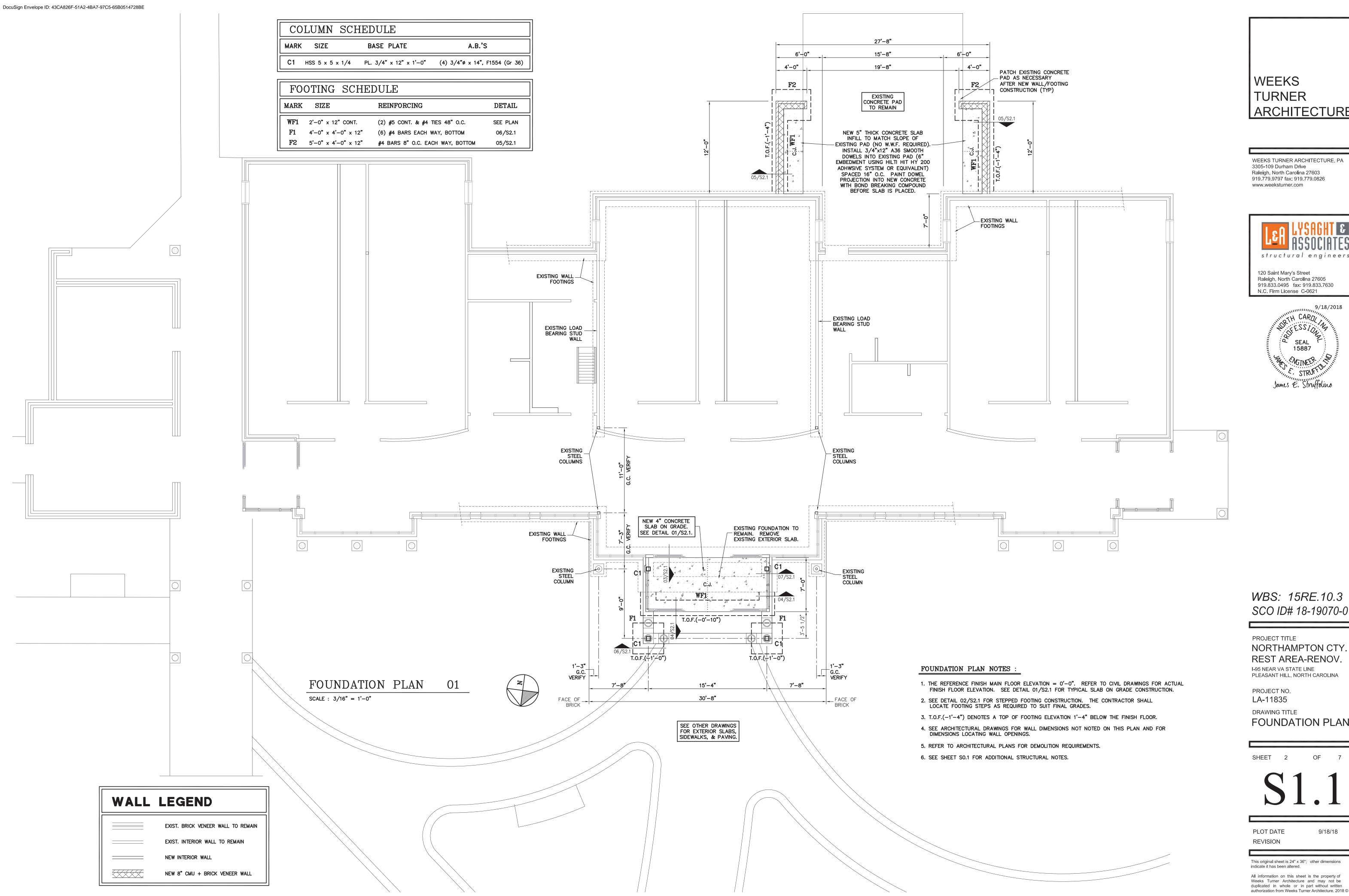
OF

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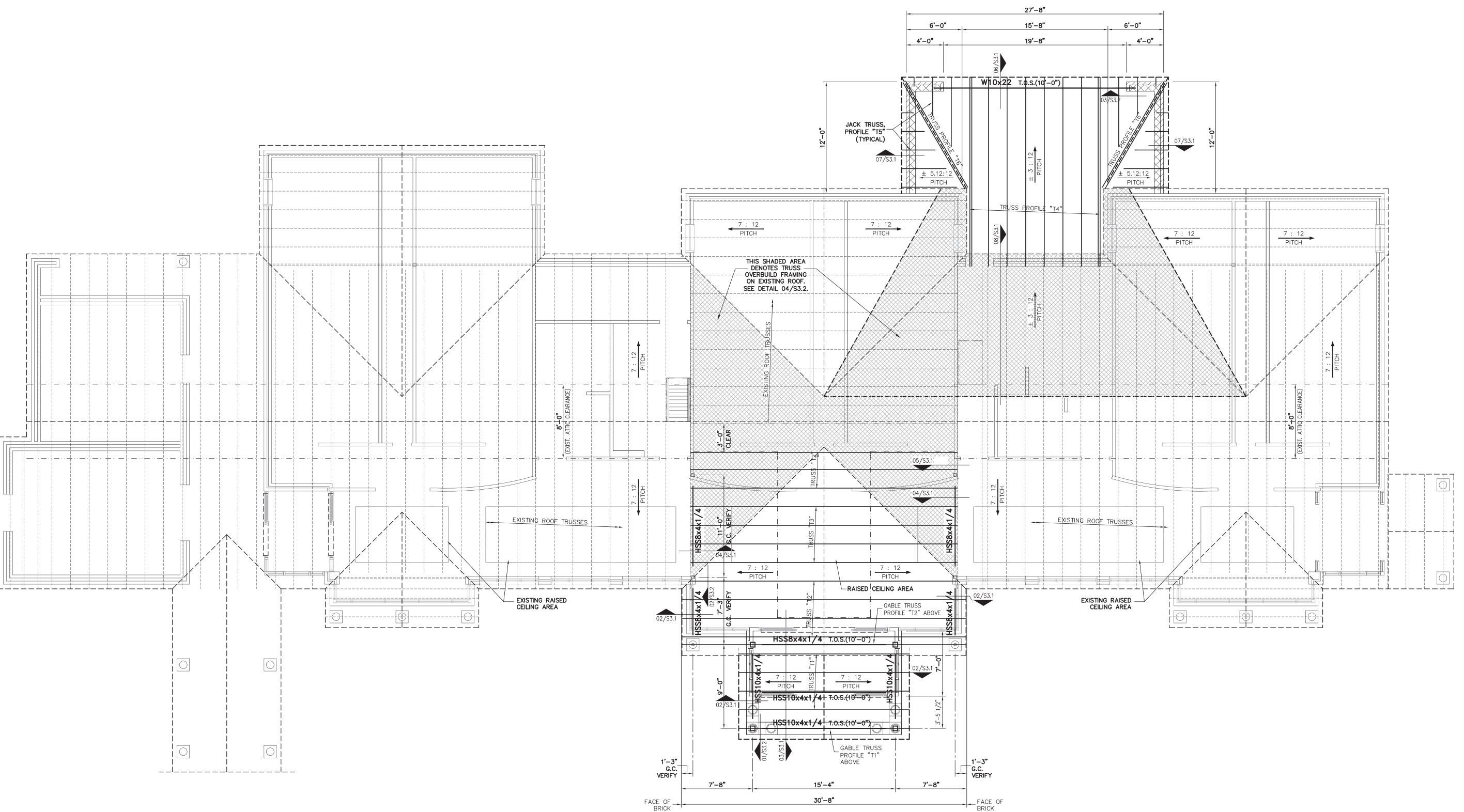
NORTHAMPTON CTY. REST AREA-RENOV. I-95 NEAR VA STATE LINE PLEASANT HILL, NORTH CAROLINA

**FOUNDATION PLAN** 

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ROOF FRAMING PLAN



## WALL LEGEND EXIST. BRICK VENEER WALL TO REMAIN

EXIST. INTERIOR WALL TO REMAIN NEW INTERIOR WALL

NEW 8" CMU + BRICK VENEER WALL

AIR LOCK BASIC STRUCTURAL SYSTEM SEISMIC RESISTING SYSTEM RESPONSE MODIFICATION COEFFICIENT SYSTEM OVERSTRENGTH FACTOR DEFLECTION AMPLIFICATION FACTOR SEISMIC RESPONSE COEFFICIENT ANALYSIS PROCEDURE SEISMIC BASE SHEAR WIND BASE SHEAR (x-x / y-y)SHELTER

WIND BASE SHEAR (x-x / y-y)

SCALE: 3/16" = 1'-0"

Structural Steel System Not Specifically Detailed for Seismic Resistance 0me g a 3.00 0.047 Equivalent Lateral Force 0.5 KIPS 1.8 / 3.5 KIPS BASIC STRUCTURAL SYSTEM Bearing Wall System SEISMIC RESISTING SYSTEM Reinf. Masonry Shear Walls RESPONSE MODIFICATION COEFFICIENT 3.50 Omega Cd SYSTEM OVERSTRENGTH FACTOR 2.50 DEFLECTION AMPLIFICATION FACTOR SEISMIC RESPONSE COEFFICIENT 0.047 Equivalent Lateral Force ANALYSIS PROCEDURE SEISMIC BASE SHEAR 2.1 KIPS 2.7 / 5.0 KIPS

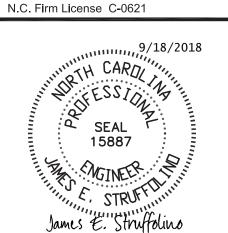
#### ROOF FRAMING PLAN NOTES

- 1. THE REFERENCE FINISH FLOOR ELEVATION = 0'-0". THE TYPICAL TRUSS BEARING ELEVATION IS AT  $10'-1 \frac{1}{2}"$  ABOVE THE FINISH FLOOR (MATCH EXISTING, G.C. VERIFY).
- 2. ROOF SHEATHING SHALL BE 5/8" THICK, 40/20 APA RATED CDX PLYWOOD OR OSB. ATTACH SHEATHING TO FRAMING MEMBERS WITH 10d NAILS SPACED 6" O.C. AT PANEL EDGES AND 12" O.C. IN THE PANEL FIELD. SEE DETAIL 01/S3.1.
- 3. SHADED AREAS ON THE FRAMING PLAN DENOTE OVERBUILT TRUSS VALLEY-SET FRAMING OR STICK FRAMING. IF STICK
- FRAMING, USE 2x6'S 16" O.C. ON TOP OF MAIN ROOF SHEATHING. SEE DETAIL 04/S3.2.
- 4. SEE SHEET S1.1 AND ARCHITECTURAL DRAWINGS FOR WALL DIMENSIONS NOT NOTED ON THIS PLAN.
- 5. SEE SHEET S1.3 FOR ATTIC LAYOUT.
- 6. SEE SHEET SO.1 FOR ROOF TRUSS DESIGN NOTES AND TRUSS PROFILES. SPACE TRUSSES 24' ON CENTER, MAXIMUM. THIS IS NOT A TRUSS PLACING PLAN, SEE TRUSS SHOP DRAWINGS FOR TRUSS PLACEMENT. GYPSUM SHEATHING IS TO BE ATTACHED DIRECTLY TO THE UNDERSIDE OF TRUSS BOTTOM CHORDS.
- 7. SEE SHEET SO.1 FOR ADDITIONAL STRUCTURAL NOTES.

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WBS: 15RE.10.3 SCO ID# 18-19070-01A

PROJECT TITLE NORTHAMPTON CTY. REST AREA-RENOV. I-95 NEAR VA STATE LINE PLEASANT HILL, NORTH CAROLINA

PROJECT NO. LA-11835 DRAWING TITLE **ROOF FRAMING** PLAN

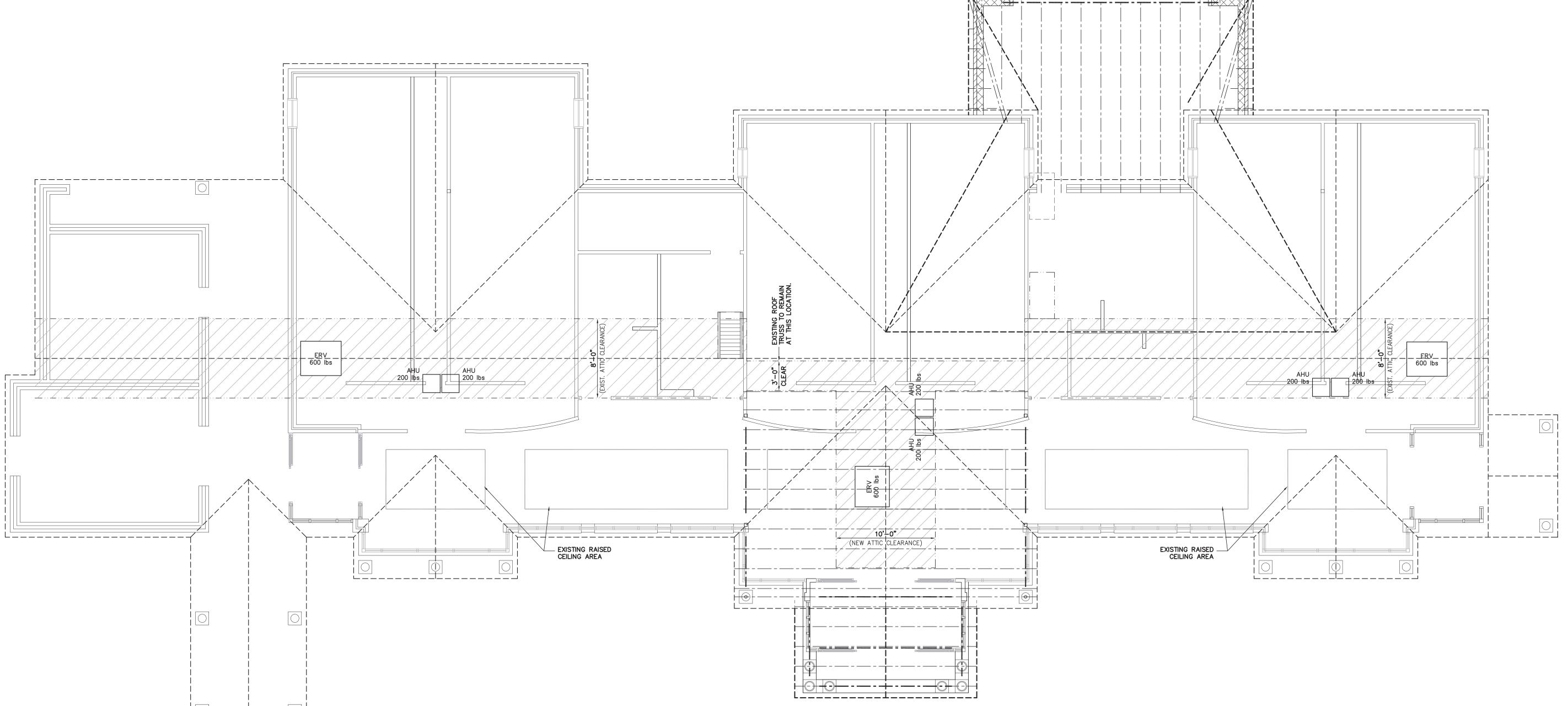
SHEET 3

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ATTIC PLAN 01

SCALE: 3/16" = 1'-0"



# EXIST. BRICK VENEER WALL TO REMAIN EXIST. INTERIOR WALL TO REMAIN NEW INTERIOR WALL NEW 8" CMU + BRICK VENEER WALL

\_\_|\_\_|

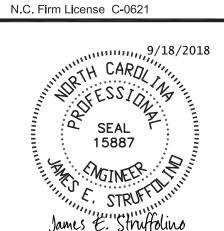
#### ATTIC PLAN NOTES :

- 1. THE REFERENCE FINISH FLOOR ELEVATION = 0'-0". THE TYPICAL TRUSS BEARING ELEVATION IS AT 10'-1 1/2" ABOVE THE FINISH FLOOR (MATCH EXISTING, G.C. VERIFY).
- 2. THE HATCHED AREA ON THE PLAN DENOTES OPEN ATTIC SPACE. THE TRUSS SUPPLIER SHALL DESIGN THE ATTIC FLOOR FOR A 25 PSF LIVE LOAD IN THIS AREA.
- 3. SEE SHEET S1.1 AND ARCHITECTURAL DRAWINGS FOR WALL DIMENSIONS NOT NOTED ON THIS PLAN.
- 4. SEE SHEET S1.2 FOR THE ROOF FRAMING PLAN.
- 5. SEE SHEET SO.1 FOR ADDITIONAL STRUCTURAL NOTES.

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PROJECT TITLE

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REST AREA-RENOV.

I-95 NEAR VA STATE LINE
PLEASANT HILL, NORTH CAROLINA

PROJECT NO.
LA-11835

DRAWING TITLE

ATTIC PLAN

SHEET 4 OF 7

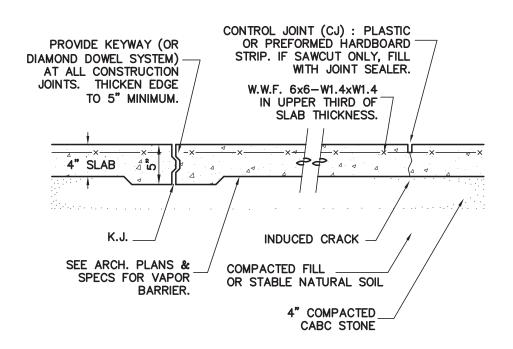
S1.3

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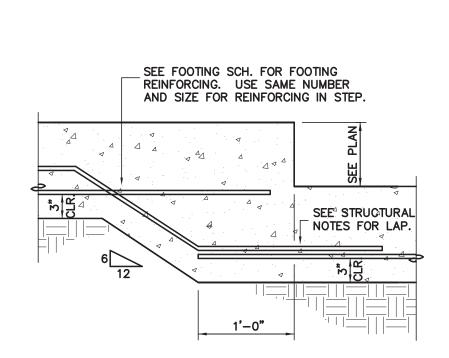
NOTES:

USE A KEYED CONSTRUCTION JOINT (K.J.) BETWEEN POURS. SLAB IS ADEQUATE FOR A LIGHT COMMERCIAL OCCUPANCY WITH A MAXIMUM LIVE LOAD OF 100 PSF.

DETAIL 01

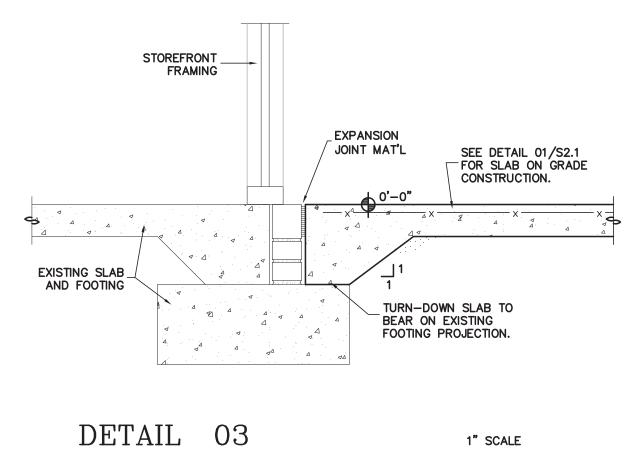
1" SCALE

TYP. SLAB ON GRADE, CONTROL JOINT, CONSTRUCTION JOINT



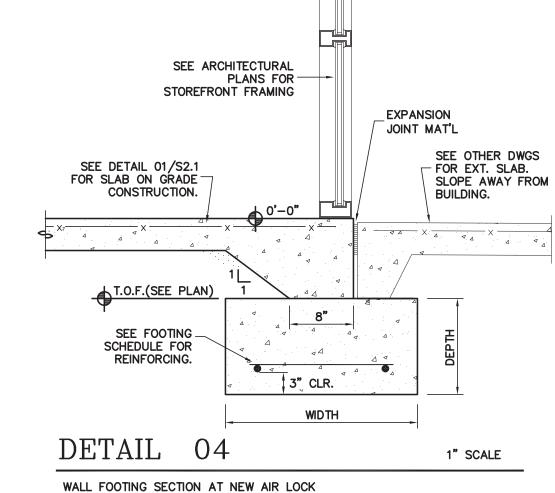
DETAIL 02 1" SCALE

STEPPED FOOTING DETAIL



EDGE OF NEW SLAB AT EXISTING BUILDING

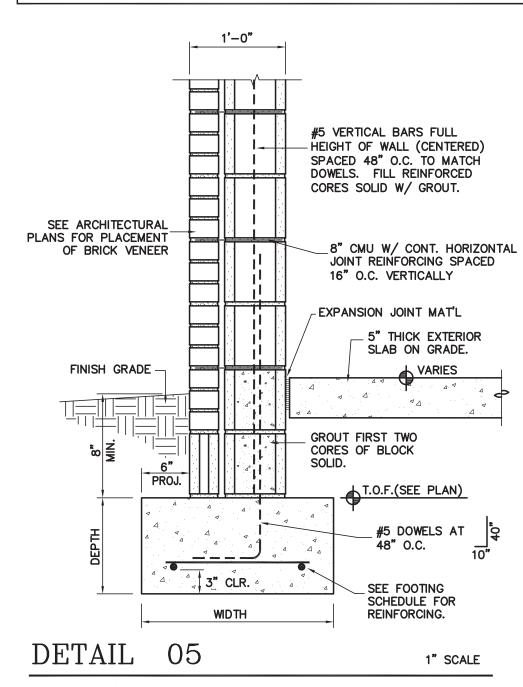
1" SCALE



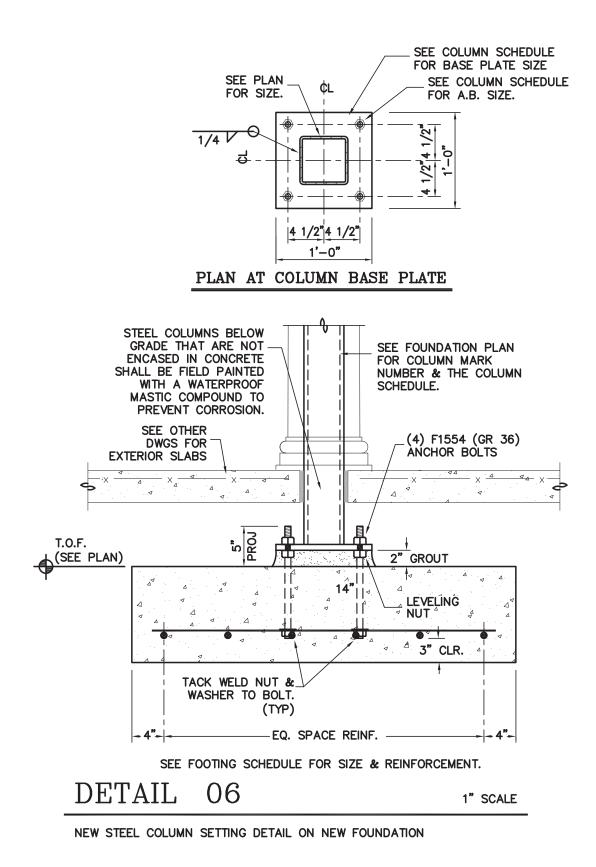
G.C. / MASON SUBCONTRACTOR NOTE:

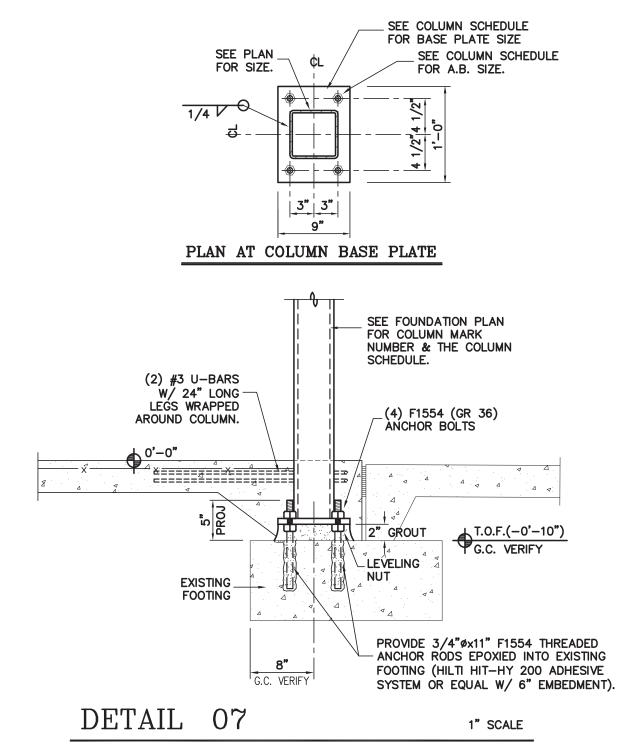
ALL VERTICAL REINFORCING BARS ARE TO BE CENTERED IN WALLS UNLESS NOTED OTHERWISE.

1) A VERTICAL BAR SHALL BE LOCATED AT ALL CORNERS. 2) A VERTICAL BAR SHALL BE LOCATED WITHIN 8" OF THE ENDS OF ALL WALLS.



WALL FOOTING SECTION AT SHELTER





NEW STEEL COLUMN SETTING DETAIL ON EXISTING FOUNDATION



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PROJECT TITLE NORTHAMPTON CTY. REST AREA-RENOV. I-95 NEAR VA STATE LINE PLEASANT HILL, NORTH CAROLINA

PROJECT NO. LA-11835 DRAWING TITLE **FOUNDATION DETAILS** 

OF 7 SHEET 5

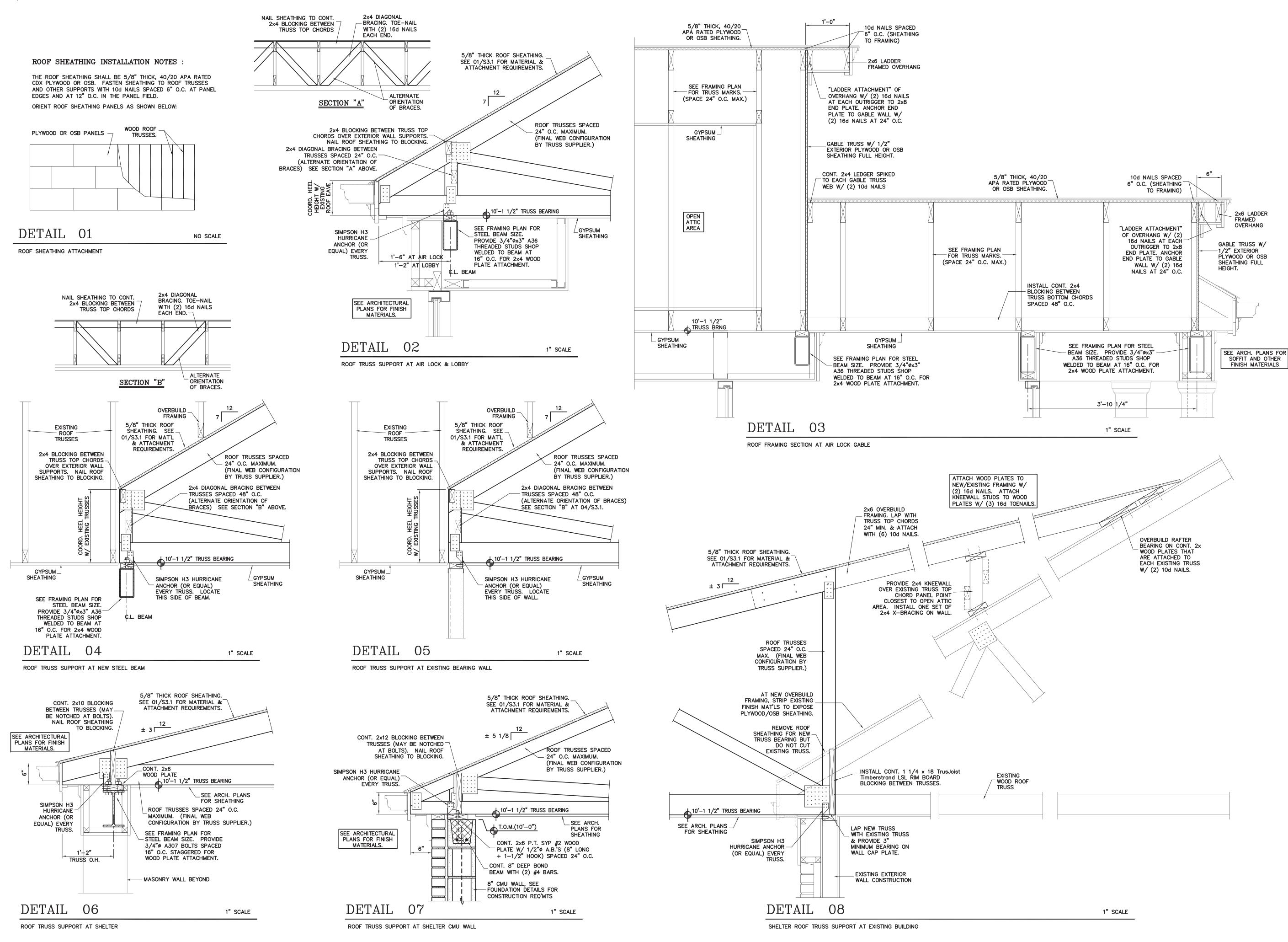
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REST AREA-RENOV.

I-95 NEAR VA STATE LINE
PLEASANT HILL, NORTH CAROLINA

LA-11835

DRAWING TITLE

FRAMING DETAILS

PROJECT NO.

S 3 1

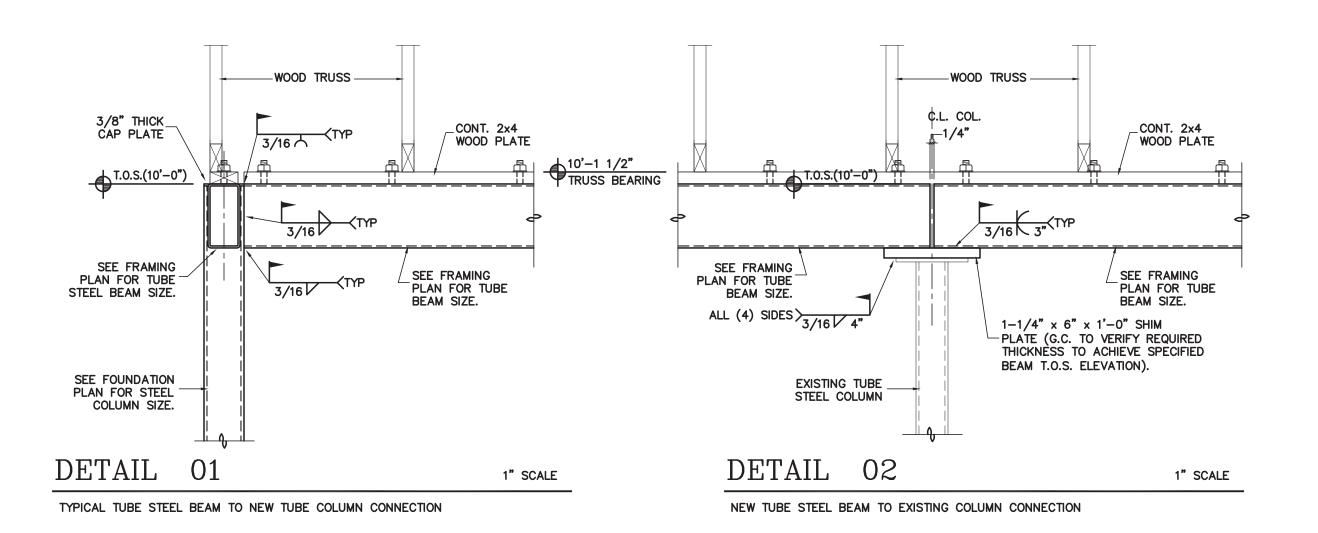
9/18/18

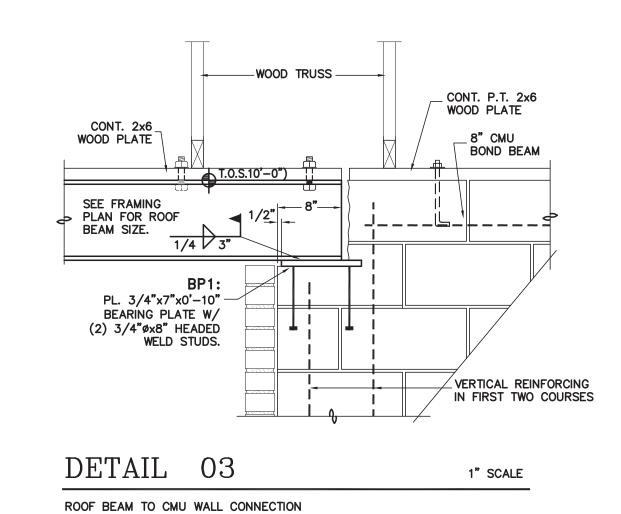
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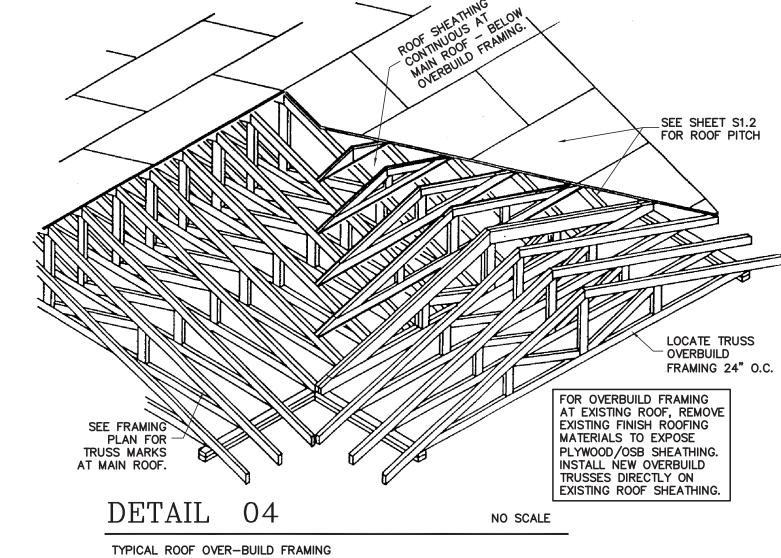
REVISION

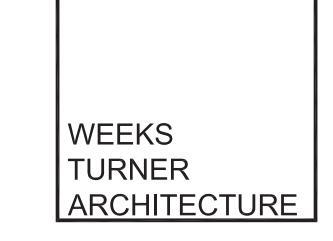
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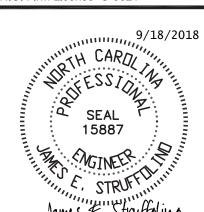






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NORTHAMPTON CTY.

REST AREA-RENOV.

I-95 NEAR VA STATE LINE
PLEASANT HILL, NORTH CAROLINA

LA-11835

DRAWING TITLE

FRAMING DETAILS

PROJECT NO.

SHEET 7 OF

S3.2

PLOT DATE REVISION

9/18/18

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	PLUMBING FIXTURE SC	HEDULE *	
MARK	DESCRIPTION	ALTERNATE MANUFACTURER/MODEL	ALTERNATE MANUFACTURER/MODEL
СР	CIRCULATING PUMP  BELL & GOSSET, SERIES NBF-22 IN-LINE CIRCULATOR PUMP, 1/12 HP, 115 VAC, FLA=0.8  1 Ph., 3/4" CONN., WITH A MAXIMUM OF 22 GPM AND 15' TDH. PUMP TO BE ALL  BRONZE CONSTRUCTION, COORDINATE WITH ELEC. CONTRACTOR FOR POWER FEED.  PROVIDE DISCONNECT SWITCH, AQUASTAT CONTROL, THERMOMETER/TEMPERATURE GAUGES.	TACO MODEL #110.	ARMSTRONG MODEL #S-25.
EWC	ELECTRIC WATER COOLER (HI-LO ADA, FILTERED REFRIGERATED, ACCESSORY APRON FOR HIGH UNIT)  ELKAY LZWS-LRPBM28K WITH BOTTLE FILLER, ACCESSORY CANE APRON LKAPR1. COORDINATE WITH  ARCH FOR MOUNTING HEIGHTS, VERIFY MODEL FOR HI/LO LOCATIONS (1-LOW/ADA HEIGHT, 1-HIGH).	HALSEY-TAYLOR MODEL #HTHBWF-OVLSER-I. ACCESSORY APRON HTOVLAPR.	OASIS MODEL #M8CRSBF STNLS. STL. ACCESSORY APRON.
EWH-1	ELECTRIC WATER HEATER #1 (FOR HTHW TO MOP SINK)  A.O. SMITH MODEL EJC-10, 10 GALLON, 1,650 WATT, 3/4" INLET AND OUTLET,  120V. AO SMITH MODEL #PMC-2 EXPANSION TANK.	RHEEM #81VP10S. AMTROL ST-5-C EXPANSION TANK.	BRADFORD WHITE #M-1-10U6SS. STATE ETC-2X EXPANSION TANK.
EWH-2	ELECTRIC WATER HEATER #2 (FOR LTHW TO SINKS/LAVATORIES)  AO SMITH WATER HEATER MODEL #DEN-52, 50 GALLONS, 4500 WATT, 240 VOLT, 1 PHASE, NON-SIMULTANEOUS DUAL ELEMENTS, 3/4" INLET/OUTLET, AO SMITH MODEL #PMC-2 EXPANSION TANK.	BRADFORD WHITE #LD-50R3-3. AMTROL ST-5-C EXPANSION TANK.	STATE #ES6-50-DORT. STATE ETC-2X EXPANSION TANK.
FD	FLOOR DRAIN  ZURN MODEL ZN415 WITH HEEL-PROOF TYPE B STRAINER, CAST IRON WITH NICKEL BRONZE  TOP, 5" DIA. STRAINER, 3" PIPE CONNECTION (VERIFY PER CONNECTIONS TO EXISTING PIPING),  AND VANDAL-PROOF TOP.	JOSAM #30000-A.	JAY R. SMITH #2005—A.
FDR	RECESSED FLOOR DRAIN  ZURN MODEL ZN415 WITH HEEL-PROOF TYPE B STRAINER, CAST IRON WITH NICKEL BRONZE TOP, 5" DIA. STRAINER, 3" PIPE CONNECTION. RECESS 2" IN FLOOR SLAB- SEE DETAIL THIS SHEET. PROVIDE TRAP PRIMER CONNECTION.	JOSAM #30000-A.	JAY R. SMITH #2005-A.
RHB	RECESSED HOSE BIBB ENCASED IN FLUSH-TO-WALL BOX ZURN Z-1330-C, 3/4" WALL HYDRANT WITH VANDAL RESISTANT VACUUM BREAKER. ENCASED WITH KEY LOCK.	WATTS #HY-330.	JAY R. SMITH #5509QT.
L1	LAVATORY (ACCESSIBLE, WALL HUNG)  AMERICAN STANDARD "LUCERNE" # 0356.421 WHITE WITH CONCEALED ARM CARRIER AND DRAIN ASSEMBLY (7723.018). ADA COMPLIANT. FURNISH WITH SLOAN OPTIMA EAF-275 SOLAR POWERED FAUCET. SINK MODEL FOR SINGLE CENTER HOLE.	KOHLER GREENWICH #K-2032 WITH HYDROTEK 7000SLE SOLAR SENSOR FAUCET.	ELJER MURRAY II #051-0244 WITH TOTO TEL3GS10 SOLAR SENSOR FAUCET.
L2	2- STATION LAVATORY (ACCESSIBLE) BRADLEY TWO STATION LAVATORY #ELX-2. ADA COMPLIANT. PROVIDE TWO DRAINS W/GRID STRAINERS, VERIFY COLOR WITH ARCHITECT. FURNISH WITH SLOAN EAF-275 SOLAR POWERED FAUCETS.	SLOAN SLOANSTONE #ELS-72000 WITH HYDROTEK 7000SLE SOLAR SENSOR FAUCET.	WILLOUGHBY MODEL WAW-232-DMF WITH TOTO TEL3GS10 SOLAR SENSOR FAUCETS.
MS	MOP SINK BASIN WITH FAUCET  BASIN— FLORESTONE MODEL 92 MOP SINK, 36" X 36" X 12", 3" DRAIN SIZE. VERIFY UNIT SIZE, FLANGE/CAP LOCATION REQUIREMENTS. PROVIDE/INSTALL ON PROPER MORTAR BED, LEVEL AS NEEDED, USE WEDGE—LOCK SEAL PER MANUFACTURER'S SPECIFICATIONS. USE WATER TO CHECK FOR PROPER DRAINAGE UPON ATTACHING DRAIN PIPE AND PRIOR TO FINISHING WALLS. FAUCET— SPEAKMAN MODEL SC—5812 FAUCET WITH VACUUM BREAKER. PROVIDE 5' HOSE AND MOP HANGER.	FIAT TSB3002 BASIN WITH 830AA FAUCET	STERN WILLIAMS HL-2010 BASIN WITH T-10-VB FAUCET.
TMV	THERMOSTATIC MIXING VALVE WATTS LFL1170 MIXING VALVE, 1" INLETS, 1" OUTLET. 0.5-23 GPM CAPACITY. INSTALL IN ACCESSIBLE LOCATION. SET OUTFLOW TO SPECIFIED TEMPERATURE (LTHW/110 DEG F.).	TACO 5000 SERIES.	LEONARD TM SERIES.
тру	TRAP PRIMER VALVE PPP INC. MODEL# PR-500, 1/2" INLET, 1/2" OUTLET	JOSAM #88300.	WATTS #A200.
UR	URINAL (HIGH EFFICIENCY)  AMERICAN STANDARD "DECORUM" #6043.001EC, 0.125 GPF, VITREOUS CHINA, 3/4" BACK SPUD, AND SENSOR W/ MANUAL OVERRIDE FLUSH VALVE SLOAN #195-0.125-ES-S-OR (AC POWERED). ADA COMPLIANT.	KOHLER DEXTER K-5452-ER WITH HYDROTEK H8-D1B-0125 FLUSH VALVE.	TOTO #105UVG WITH AMERICAN STANDARD SELECTRONIC #6062.301.007 FLUSH VALVE.
۷В	ICE MAKER VALVE BOX W/HAMMER ARRESTER OATEY ICE MAKER BOX 38570 WITH 1/4 TURN BALL VALVE AND HAMMER ARRESTER.	SIOUX CHIEF OXBOX	IPS CORP. IMOB
WC1	WATER CLOSET (FLOOR MOUNT TOP SPUD)  AMERICAN STANDARD "MADERA FLOWISE" #3461.001, ELONGATED BOWL, 1.28 GPF, VITREOUS CHINA, AND 1 1/2" TOP SPUD, ADA COMPLIANT. PROVIDE OPEN FRONT SEAT, AND SENSOR W/ MANUAL OVERRIDE FLUSH VALVE EQUAL TO SLOAN OPTIMA 111-1.28-ES-S (AC POWERED) FLUSH VALVE.	ZURN #Z5665 FIXTURE. ZURN #ZEMS6000IS FLUSH VALVE.	KOHLER HIGHCREST #K-4302 FIXTURE. HYDROTEK H8-128 VALVE.
WC2	WATER CLOSET (FLOOR MOUNT REAR OUTLET W/BACK SPUD)  AMERICAN STANDARD "PRIOLO FLOWISE" #3697.001, ELONGATED BOWL, 1.28 GPF, VITREOUS CHINA, AND 1 1/2" BACK SPUD. WC TO BE ADA COMPLIANT. PROVIDE OPEN FRONT SEAT, AND SENSOR W/ MANUAL OVERRIDE FLUSH VALVE, EQUAL TO SLOAN OPTIMA 140-1.28-ES-S (AC POWERED) FLUSH VALVE.	ZURN Z5647-BWL FIXTURE, ZURN #ZEMS6152AV-HET, 1.28 GPF VALVE.	FIXTURE-NO 3RD CHOICE AVAILABLE. HYDROTEK H-8CB-128, 1.28 GPF VALVE.
WC3	WATER CLOSET (WALL MOUNT BACK SPUD) W/HEAVY DUTY (500 LB.) RATED FIXTURE CARRIER  AMERICAN STANDARD "AFWALL FLOWISE" #3353.128, ELONGATED BOWL, 1.28 GPF, VITREOUS CHINA, AND 1 1/2" BACK SPUD. WC3 TO BE ADA COMPLIANT WHERE REQUIRED. PROVIDE OPEN FRONT SEAT, AND SENSOR W/ MANUAL OVERRIDE FLUSH VALVE, EQUAL TO SLOAN OPTIMA MODEL 152-1.28-ES-S (AC POWERED) FLUSH VALVE. CARRIER SHALL BE ZURN 4" ADJUSTABLE VERTICAL NO HUB #Z1204-N4-X W/HEAVY-DUTY 500 LB. REAR ANCHOR.	ZURN #Z5617 FIXTURE. ZURN #ZEMS6140AV FLUSH VALVE. JAY R. SMITH #230 SERIES CARRIER.	KOHLER KINGSTON #K-4329 FIXTURE. HYDROTEK H-8000C-CB FLUSH VALVE. JOSAM STD. 4" NO HUB, 2" VENT CARRIER.

<sup>\*</sup> OR APPROVED EQUAL

GENERAL NOTES - PLUMBING

1. PREPLAN ALL WORK PRIOR TO ORDERING, PURCHASING, OR FABRICATING ANY PART OF THE WORK DESCRIBED BY THIS DRAWING. 2. IMMEDIATELY NOTIFY THE ENGINEER OF ANY CONFLICTS WITH EXISTING FIELD CONDITIONS OR THE WORK OF OTHER TRADES. 3. RESOLVE ALL CONFLICTS PRIOR TO INCURRING ANY MATERIAL OR

LABOR EXPENSES. 4. COMPLY WITH THE MANUFACTURER'S TECHNICAL INSTRUCTIONS WHEN INSTALLING PLUMBING FIXTURES, MATERIALS, AND DEVICES. 5. LOCATE FIXTURES AND EQUIPMENT GENERALLY AS SHOWN ON THE PLANS; HOWEVER, COORDINATE LOCATIONS WITH ACTUAL FIELD CONDITIONS TO PRESERVE ALL CODE—REQUIRED AND MANUFACTURER—REQUESTED SERVICE CLEARANCES.

6. COORDINATE ROUTING OF ALL PIPING WITH BUILDING STRUCTURE AND WITH THE WORK OF OTHER TRADES. OFFSET VENT PIPING AROUND BEAMS AND JOISTS AS NECESSARY. 7. ALL HANDICAP FIXTURES AND INSTALLATION OF HANDICAP FIXTURES SHALL CONFORM TO ADA REQUIREMENTS. 8. AT EXTERIOR WALL, INSTALL WATER PIPING ON HEATED SIDE OF WALL INSULATION.

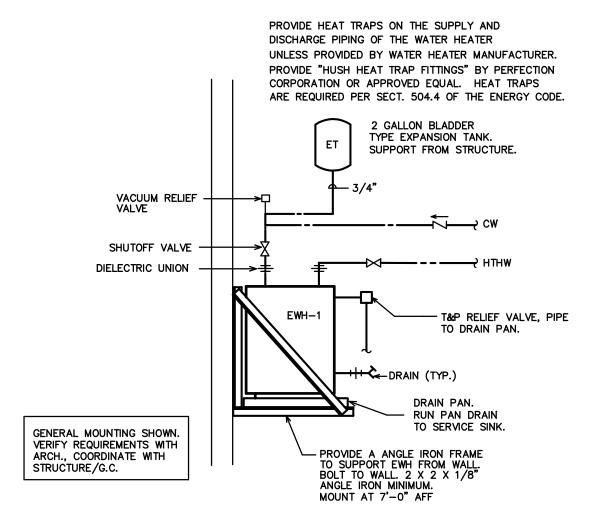
9. PROVIDE WATER HAMMER ARRESTORS AT THE END OF EACH COLD AND HOT WATER BRANCH RISER. SIZE ARRESTOR APPROPRIATELY. 10. PROVIDE CONCRETE RING FOR ALL EXTERIOR CLEAN-OUTS. 11. REVIEW SITE PLAN FOR UTILITIES AND ORIENTATION PRIOR TO START

12. G.C. TO PROVIDE ROOF PENETRATIONS. 13. PROVIDE HTHW AT 140 DEGREES (F) AND LTHW AT 110 DEGREES (F).

#### LOAD SUMMARY- PLUMBING

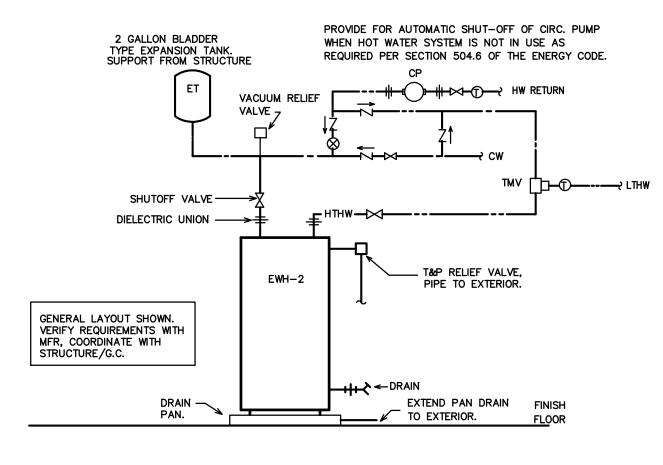
523.5 143.6

A 3" CW SERVICE/BACKFLOW PREVENTER ARE EXISTING.



#### WATER HEATERS, PIPING, AND PIPING APPURTENANCES PROVIDED BY P.C. WATER HEATER SUPPORTS BY P.C.

**EWH-1 DETAIL** 



WATER HEATERS, PIPING, AND PIPING APPURTENANCES PROVIDED BY P.C. WATER HEATER SUPPORTS BY P.C.

#### SYMBOL LEGEND - PLUMBING

\_\_\_\_\_LTHW \_\_\_\_\_

SYMBOL DESCRIPTION WASTE PIPING (W) VENT PIPING (V) \_\_\_\_\_\_ COLD WATER PIPING (CW) HOT WATER PIPING (HW) \_\_\_\_\_ HOT WATER RETURN PIPING (HWR) —--- HWR —---———— HTHW———— HIGH TEMPERATURE HW PIPING (HTHW) 140 DEG. F

LOW TEMPERATURE HW PIPING (LTHW) 110 DEG. F

CLEANOUT FINISH FLOOR

—O COFF Twco/Hco WALL/HORIZONTAL CLEANOUT

CLEANOUT FINISH GRADE COFG DIELECTRIC UNION SHUT-OFF VALVE CHECK VALVE BALANCING VALVE

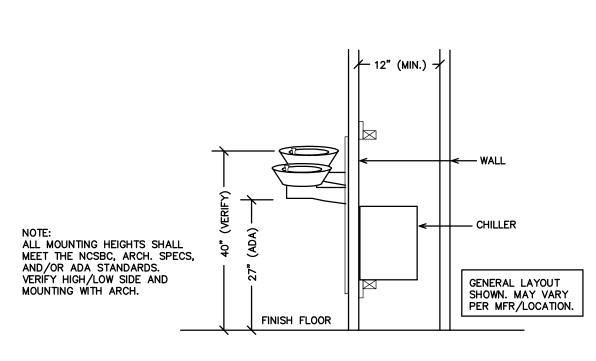
CIRCULATION PUMP (CP) WATER METER (MTR) VENT THRU ROOF (VTR)

FREEZE PROOF, HOSE BIBB (FPHB/RHB) POINT OF NEW CONNECTION TO EXISTING

тм∨ 🗀 THERMOSTATIC MIXING VALVE (TMV)

THERMOMETER/TEMPERATURE GAUGE (T)

INDIRECT DRAIN FROM SPECIFIED EQUIPMENT RECESS FLOOR DRAIN 2" INTO CONCRETE BRONZE STRAINER -- CAST IRON BODY CONCRETE FLOOR SLAB → PROVIDE TRAP NOTE: DO NOT RECESS GENERAL



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-- DocuSigned by: Ben Burke 9/18/2018 6:43:56 PM EDT

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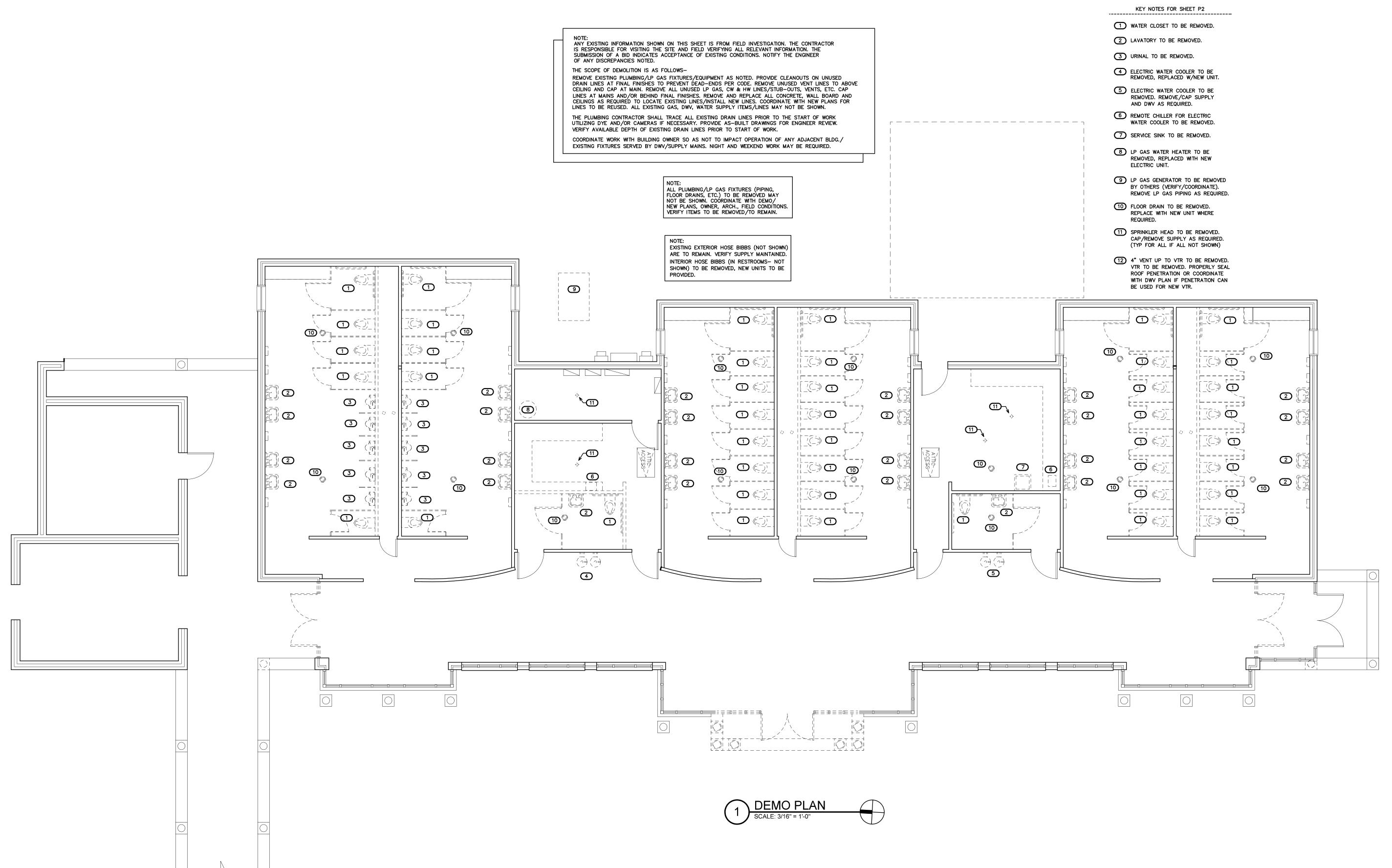
PROJECT TITLE NORTHAMPTON CTY. REST AREA- RENOV. I-95 NEAR VA STATE LINE PLEASEANT HILL, NORTH CAROLINA

PROJECT NO. 1704a

DRAWING TITLE PLUMBING SPECIFICATIONS



9/18/18 PLOT DATE



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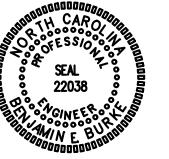
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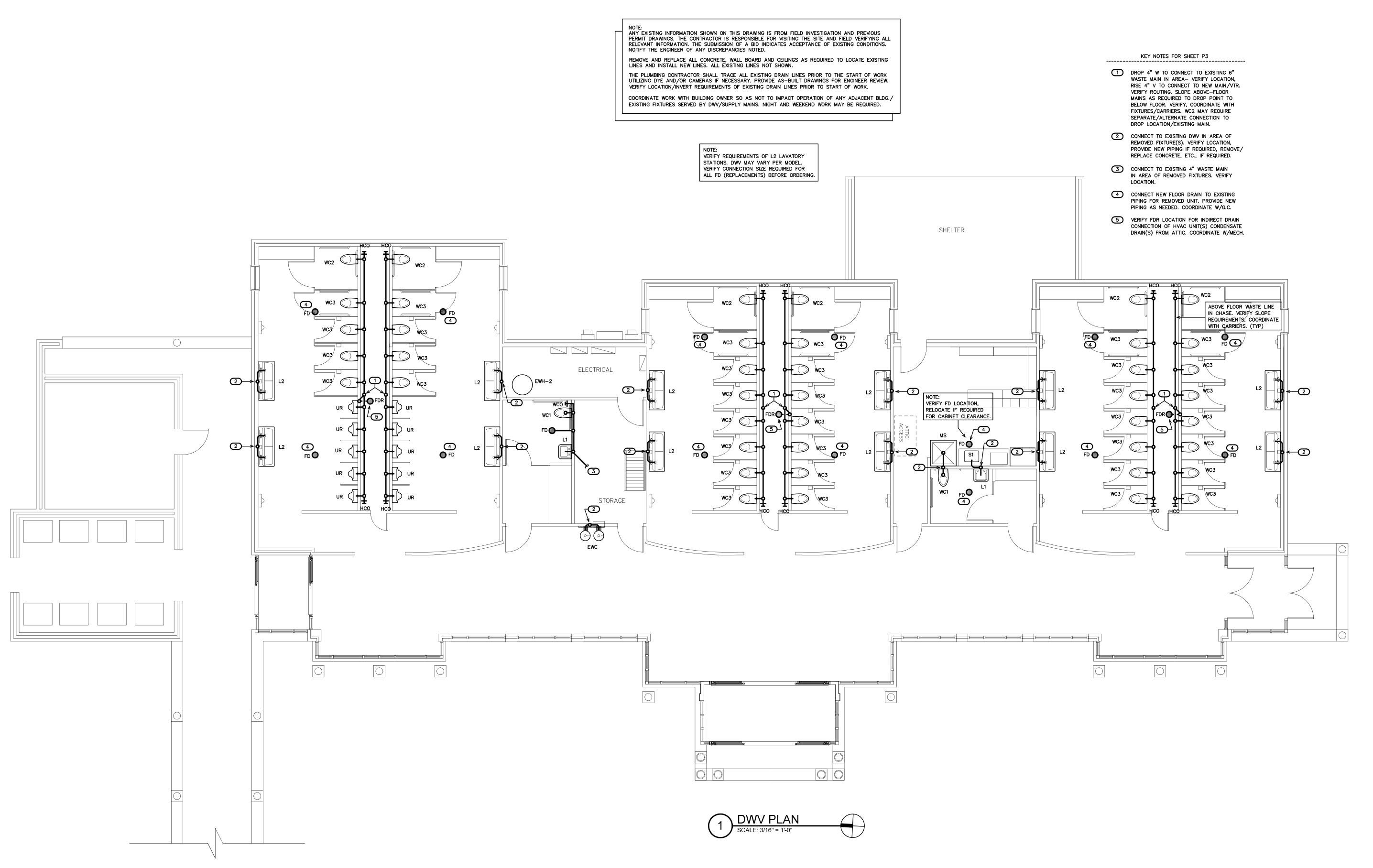
PROJECT NO. **1704**a

DRAWING TITLE **DEMO PLAN** 

PZ

PLOT DATE

9/18/18



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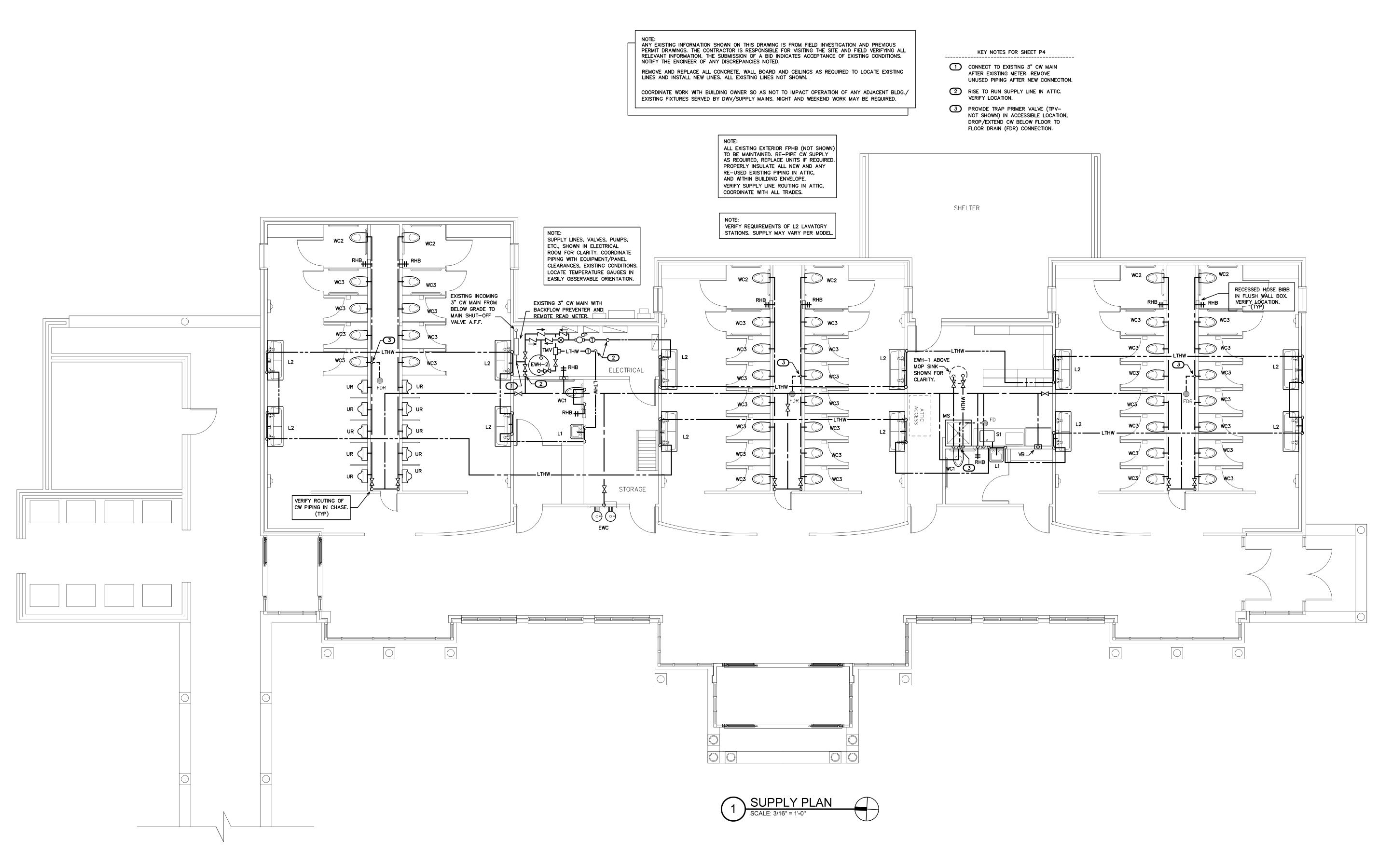
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PROJECT TITLE

DRAWING TITLE DWV PLAN

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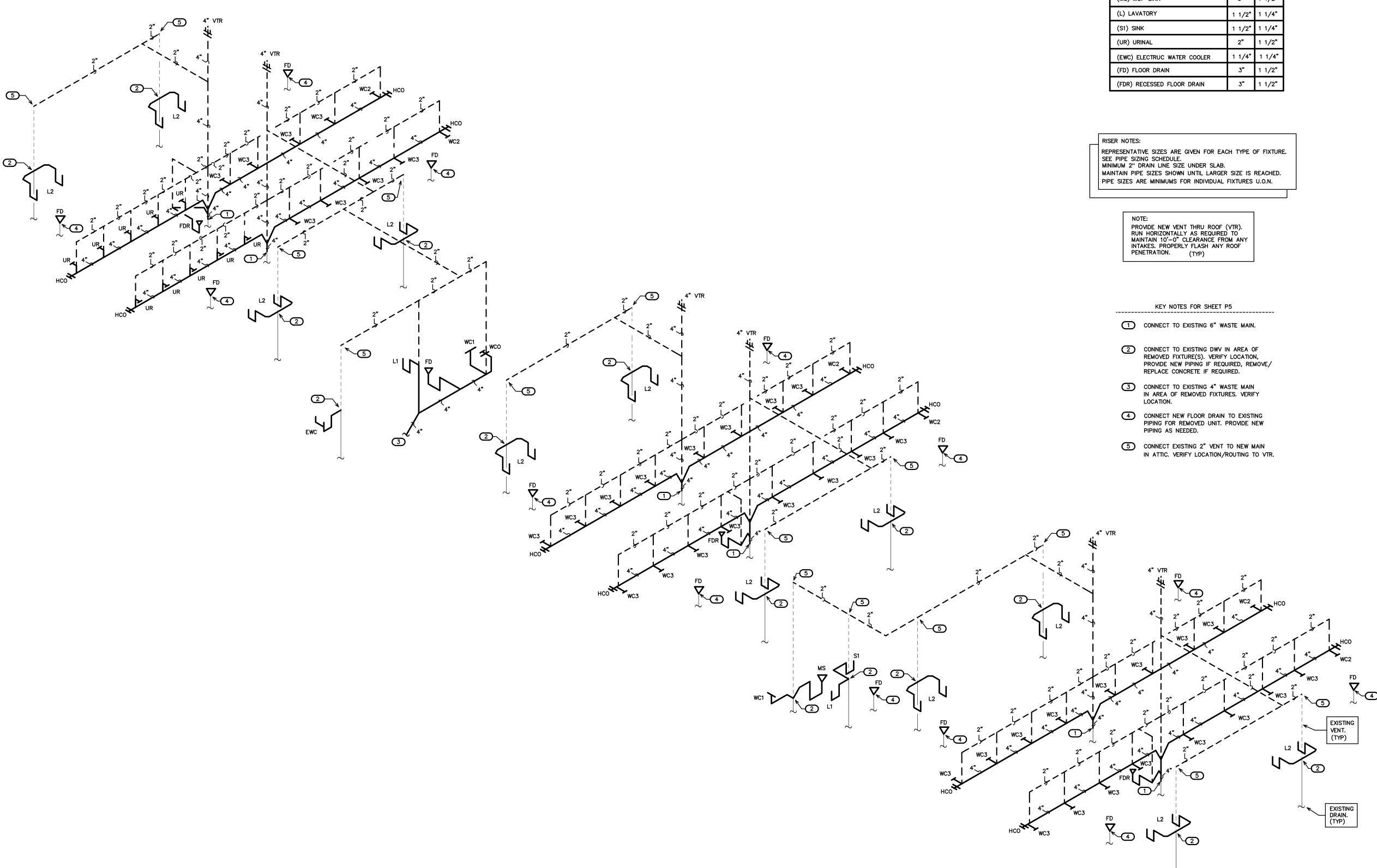
PROJECT TITLE NORTHAMPTON CTY. REST AREA- RENOV. I-95 NEAR VA STATE LINE PLEASEANT HILL, NORTH CAROLINA

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DRAWING TITLE SUPPLY PLAN

PLOT DATE

9/18/18



1) DWV RISER
SCALE: NOT TO SCALE

( VERIFY ALL EQUIPMENT REQUIREMENTS PRIOR TO ROUGH-IN )

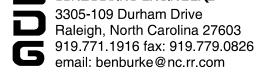
PIPE SIZING SCHE	DULE	
FIXTURE TYPE	DRAIN	VENT
(WC) FLUSH VALVE WATER CLOSET	3"	1 1/2"
(MS) MOP SINK	3"	1 1/2"
(L) LAVATORY	1 1/2"	1 1/4"
(S1) SINK	1 1/2"	1 1/4"
(UR) URINAL	2"	1 1/2"
(EWC) ELECTRUC WATER COOLER	1 1/4"	1 1/4"
(FD) FLOOR DRAIN	3"	1 1/2"
(FDR) RECESSED FLOOR DRAIN	3"	1 1/2"

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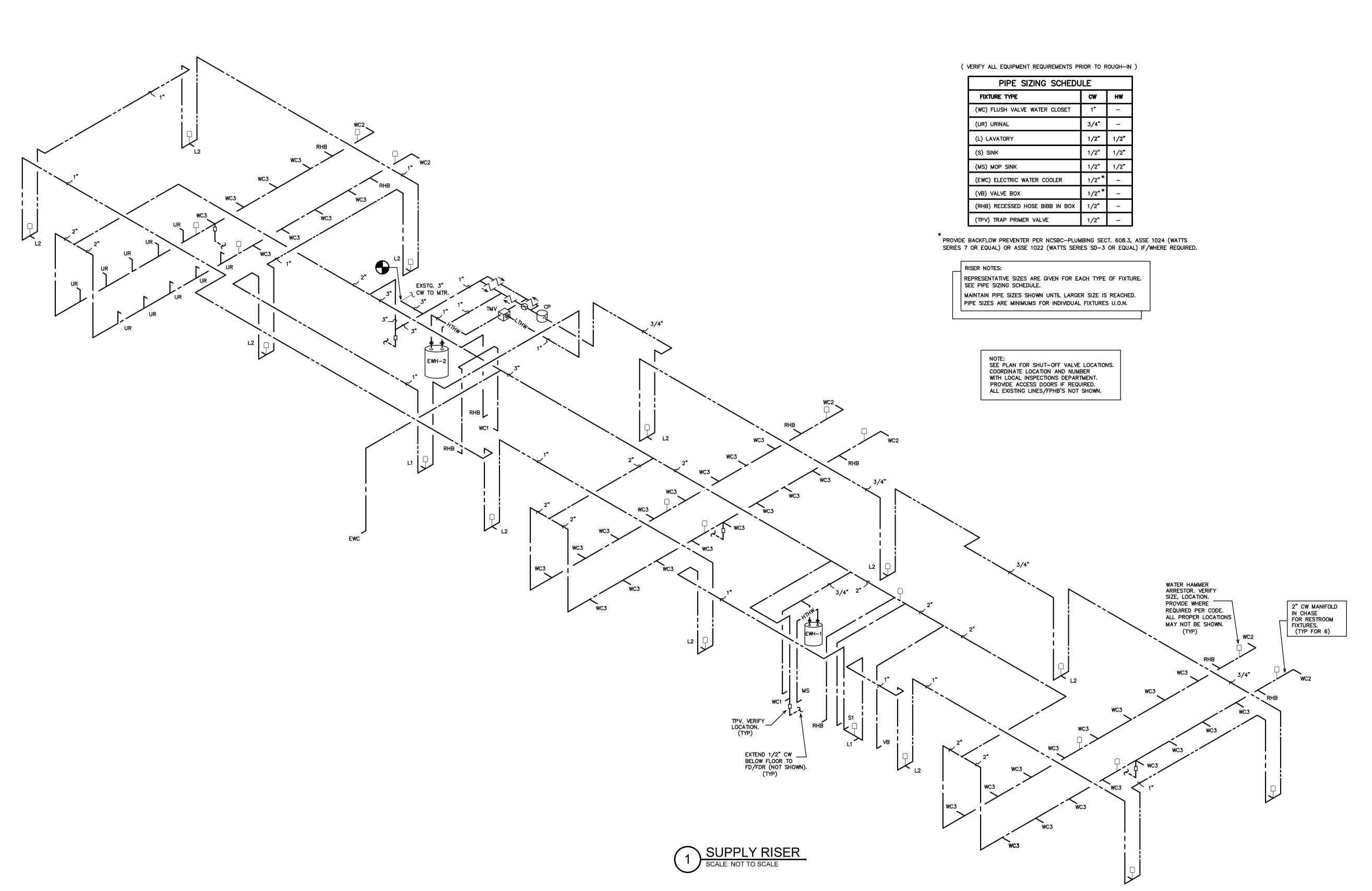
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DRAWING TITLE DWV RISER



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HVAC E	QUIPMENT SCHEDULE
HVAC SYSTEM #1A	
AHU #1A DIRECT EXPANSION FAN COIL UNIT	*  **  **  **  **  **  **  **  **  **
HP #1A OUTDOOR HEAT PUMP UNIT	* CARRIER MODEL #25HCC542A0030, 3.5 TON OUTDOOR HEAT PUMP UNIT, 15 SEER, PROVIDE CYCLE PROTECTOR, LOW PRESSURE SWITCH, CRANKCASE HEATER, 240 VOLT, 1 PHASE.  COMP 21.1A RLA, FAN 1.2A FLA, OUTDOOR HEAT PUMP 27.6A MCA, 40A MOCP.
HVAC SYSTEM #1B	
AHU #1B DIRECT EXPANSION FAN COIL UNIT	* CARRIER MODEL #FX4DNF043, 4 WAY, MULTIPOISE FAN COIL UNIT. 5 KW HEATER.  * NOMINAL CAPACITY = 42,000 BTUH. 1350 CFM NOMINAL. PROVIDE HARD SHUT-OFF TXV VALVE.  3.5 TON NOMINAL. PROVIDE FILTER RACK WITH HINGED DOOR.  1/2HP, 4.1A MOTOR FLA, 20A HEAT FLA, 240V, 1 PH, 33.5A MCA, 35A MOCP AHU & HEAT.
HP #1B OUTDOOR HEAT PUMP UNIT	* CARRIER MODEL #25HCC542A0030, 3.5 TON OUTDOOR HEAT PUMP UNIT, 15 SEER, PROVIDE CYCLE PROTECTOR, LOW PRESSURE SWITCH, CRANKCASE HEATER, 240 VOLT, 1 PHASE. COMP 21.1A RLA, FAN 1.2A FLA, OUTDOOR HEAT PUMP 27.6A MCA, 40A MOCP.
HVAC SYSTEM #2A	
AHU #2A DIRECT EXPANSION FAN COIL UNIT	*  **  **  **  **  **  **  **  **  **
HP #2A OUTDOOR HEAT PUMP UNIT	* CARRIER MODEL #25HCC542A0030, 3.5 TON OUTDOOR HEAT PUMP UNIT, 15 SEER, PROVIDE CYCLE PROTECTOR, LOW PRESSURE SWITCH, CRANKCASE HEATER, 240 VOLT, 1 PHASE. COMP 21.1A RLA, FAN 1.2A FLA, OUTDOOR HEAT PUMP 27.6A MCA, 40A MOCP.
HVAC SYSTEM #2B	
AHU #2B DIRECT EXPANSION FAN COIL UNIT	*  **  **  **  **  **  **  **  **  **
HP #2B OUTDOOR HEAT PUMP UNIT	* CARRIER MODEL #25HCC542A0030, 3.5 TON OUTDOOR HEAT PUMP UNIT, 15 SEER, PROVIDE CYCLE PROTECTOR, LOW PRESSURE SWITCH, CRANKCASE HEATER, 240 VOLT, 1 PHASE. COMP 21.1A RLA, FAN 1.2A FLA, OUTDOOR HEAT PUMP 27.6A MCA, 40A MOCP.
HVAC SYSTEM #3A	
AHU #3A DIRECT EXPANSION FAN COIL UNIT	*  **  **  **  **  **  **  **  **  **
HP #3A OUTDOOR HEAT PUMP UNIT	* CARRIER MODEL #25HCC542A0030, 3.5 TON OUTDOOR HEAT PUMP UNIT, 15 SEER, PROVIDE CYCLE PROTECTOR, LOW PRESSURE SWITCH, CRANKCASE HEATER, 240 VOLT, 1 PHASE. COMP 21.1A RLA, FAN 1.2A FLA, OUTDOOR HEAT PUMP 27.6A MCA, 40A MOCP.
HVAC SYSTEM #3B	
AHU #3B DIRECT EXPANSION FAN COIL UNIT	* CARRIER MODEL #FX4DNF043, 4 WAY, MULTIPOISE FAN COIL UNIT. 5 KW HEATER.  NOMINAL CAPACITY = 42,000 BTUH. 1350 CFM NOMINAL. PROVIDE HARD SHUT-OFF TXV VALVE.  3.5 TON NOMINAL. PROVIDE FILTER RACK WITH HINGED DOOR.  1/2HP, 4.1A MOTOR FLA, 20A HEAT FLA, 240V, 1 PH, 33.5A MCA, 35A MOCP AHU & HEAT.
HP #3B OUTDOOR HEAT PUMP UNIT	* CARRIER MODEL #25HCC542A0030, 3.5 TON OUTDOOR HEAT PUMP UNIT, 15 SEER, PROVIDE CYCLE PROTECTOR, LOW PRESSURE SWITCH, CRANKCASE HEATER, 240 VOLT, 1 PHASE.  COMP 21.1A RLA, FAN 1.2A FLA, OUTDOOR HEAT PUMP 27.6A MCA, 40A MOCP.

#### \* OR APPROVED EQUAL

NOTE: 1. AHU HEATER KW RATINGS ARE AT 240 VOLTS.

2. PROVIDE OUTDOOR TSTAT TO PREVENT ELECTRIC HEAT OPERATION WHEN HEAT PUMP CAN MEET THE HEATING LOAD

3. ERV UNITS SHALL RUN AT ALL TIMES WHEN AHU FANS ARE RUNNING. AHU FANS SHALL RUN CONTINUOUSLY.

AHU CONTROL NOTE:

FOR EACH SYSTEM PROVIDE "SIMPLE ENGINEERED SOLUTIONS" MODEL #HPDM-XX HEAT PUMP DEHUMIDIFICATION CONTROL MODULE. PROVIDE PROGRAMMABLE ELECTRONIC THERMOSTAT WITH AUTO CHANGEOVER AND HUMIDISTAT FUNCTION. THERMOSTAT SHALL BE COMPATIBLE WITH DEHUMIDIFICATION CONTROL MODULE. PURPOSE OF DEHUMIDIFICATION CONTROL MODULE IS TO INITIATE COOLING MODE WHEN HUMIDISTAT SENSES HUMIDITY OVER SETPOINT AND ENERGIZE AND CONTROL ELECTRIC HEAT TO MAINTAIN SPACE TEMPERATURE.

#### GENERAL NOTES - MECHANICAL

- 1. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE STATE CODE AND ALL LOCAL AND OTHER APPLICABLE CODES.
- 2. ANY PERMITS AND INSPECTION FEES SHALL BE SECURED AND PAID FOR BY THE MECHANICAL CONTRACTOR (MC).
- 3. ALL WORK SHALL BE PERFORMED BY EXPERIENCED AND SKILLED CRAFTSMEN. THE MC SHALL COORDINATE ALL OF HIS WORK WITH THE GENERAL CONTRACTOR (GC) AND OTHER TRADES.
- 4. THE LOCATION OF ALL DUCT, PIPING AND EQUIPMENT SHALL BE ADJUSTED TO ACCOMMODATE ANTICIPATED OR ENCOUNTERED INTERFERENCES.
- 5. THESE PLANS ARE DIAGRAMMATIC AND MAY NOT SHOW MINOR DETAILS AND LOCATIONS. FOR DIMENSIONS REFER TO THE ARCHITECTURAL PLANS.
- 6. THE MC SHALL BE RESPONSIBLE FOR ALL ELECTRICAL STARTERS INTERLOCKS, CONTROL WIRING CONDUIT AND POWER WIRING FROM DISCONNECTS TO HIS EQUIPMENT, USING A LICENSED
- 7. THE MC SHALL USE FIRE DAMPERS FOR PROTECTION OF THE OPENING IN ACCORDANCE WITH STATE AND LOCAL CODES IN ALL LOCATIONS WHERE PENETRATIONS OF RATED WALLS AND FLOORS OCCUR. SEE ARCHITECTURAL PLANS FOR RATED WALL AND FLOOR LOCATIONS. PROVIDE ACCESS DOORS AT ALL DAMPER LOCATIONS. LOCATE DOORS FOR EASY ACCESS. THERE ARE NO RATED WALLS PENETRATED IN THIS HVAC UPFIT.
- INSTALL FLEXIBLE CONNECTORS ON SUPPLY AND RETURN DUCTWORK AHU. ALL MECHANICAL EQUIPMENT SHALL OPERATE FREE OF OBJECTIONAL NOISE AND VIBRATION.
- INSTALL TURNING VANES IN SUPPLY DUCTS AT ALL ELBOWS AND SPLITTER DAMPERS. PROVIDE BALANCING DAMPERS IN ALL DUCTS WHERE SHOWN OR REQUIRED FOR SYSTEM BALANCING. PROVIDE SPIN IN STARTING COLLARS WITH DAMPERS AT ALL SUPPLY TAKEOFFS.
- 10. DUCT DIMENSIONS ARE SHOWN INSIDE CLEAR. COORDINATE EXACT SIZE WITH SPACE AVAILABLE DUCT INSULATION SHALL BE 2" FIBERGLASS EXTERIOR DUCT INSULATION WITH FOIL FACING.
- 11. THERMOSTAT, WIRING AND CONDUIT ARE TO BE FURNISHED BY THE MC. MOUNT THERMOSTAT 48" ABOVE THE FINISHED FLOOR. COORDINATE LOCATION WITH OWNER. PROVIDE AUTO CHANGEOVER THERMOSTAT WITH UNIT OFF POSITION AS MINIMUM. PROVIDE AN EMERGENCY SHUT-OFF SWITCH ABOVE THE THERMOSTAT. PROPERLY LABEL
- 12. THE MC SHALL KEEP THE PREMISES CLEAR OF DEBRIS FROM HIS WORK DURING CONSTRUCTION AND LEAVE THE AREA AND BUILDING CLEAN AT THE COMPLETION OF HIS WORK. HE SHALL ALSO LEAVE CLEAN ALL EXPOSED EQUIPMENT IN HIS CONTRACT.
- 13. COORDINATE DIFFUSER AND CEILING EXHAUST GRILLE LOCATIONS WITH LIGHTS AND GRID. COORDINATE MOUNTING FRAME WITH CEILING TYPE.
- 14. THE M.C. SHALL COORDINATE WITH AND PROVIDE EQUIPMENT SPEC. SHEETS TO THE GENERAL AND ELECTRICAL CONTRACTORS FOR REVIEW PRIOR TO ORDERING EQUIPMENT.
- 15. PROPERLY SUPPORT FLEXIBLE DUCT, MINIMUM 75% DEFORMATION. PROVIDE SHEET METAL ELBOWS AT ALL
- 16. ALL DUCT JOINTS SHALL BE SEALED AIRTIGHT WITH FIBER ENPREGNATED MASTIC OR HARDCAST AND TAPE.
- 17. SUPPORT AHU, EXHAUST FANS, HEAT WHEEL AND ALL DUCTWORK, ETC. FROM STRUCTURE. PIPE STRAPPING WILL NOT BE ALLOWED.

LEGEND -	MECHANICAL
12 X 8	RECTANGULAR GALVANIZED STEEL DUCTWORK
2 12" DIA.	RIGID ROUND GALVANIZED STEEL DUCTWORK
	FLEXIBLE DUCTWORK
	SUPPLY DIFFUSER
	RETURN GRILLE
	EXHAUST GRILLE
Ф	THERMOSTAT/HUMIDISTAT WITH CLEAR PLASTIC, LOCKING, VANDAL PROOF COVER
<b>®</b>	REMOTE DUCT MOUNTED TEMPERATURE SENSOR
•	REMOTE DUCT MOUNTED HUMIDITY SENSOR
XXXX <	— GRILLE TYPE — MIN. CFM
D ————————————————————————————————————	CONDENSATE DRAIN PIPING  REFRIGERANT PIPING  DUCT TYPE SMOKE DETECTOR  REMOTE ALARM INDICATING DEVICE "RAID" FOR DUCT
	MOUNTED SMOKE DETECTOR

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#### OUTDOOR AIR CALCULATIONS OUTDOOR VENTILATION AIR PROVIDED PER TABLE 403.3, 2012 NORTH CAROLINA STATE BUILDING CODE: MECHANICAL CODE.

APPLICATION	CFM/SQ.FT.
1495 SQ. FT. X 0.06 CFM/SQ.FT. = 90 CFM	
CORRIDORS	0.06 CFM/SQ.FT.
APPLICATION	CFM/SQ.FT.
54 FLUSHING FIXTURES X 70 CFM = 3780 CFM 4800 CFM EXHAUST PROVIDED BY (3) ERVS	
GANG TOLIET ROOMS	70 CFM EACH

CFM/FLUSHING FIXTURE

0.06 CFM/SQ.FT.

TOTAL OUTSIDE AIR REQUIRED - 3905 CFM TOTAL OUTSIDE PROVIDED - 4800 CFM

289 SQ, FT. X 0.12 CFM/SQ,FT. = 35 CFM

APPLICATION

# AHU \*1A + AHU \*1B = 1600 CFM PROVIDED FROM ERV AHU \*2A + AHU \*2B = 1600 CFM PROVIDED FROM ERV AHU \*3A + AHU \*3B = 1600 CFM PROVIDED FROM ERV

	ENERGY RECOVERY UNIT SCHEDULE														
	THERMAL PERFORMANCE														
			FANS / MOTORS						ENERGY RECOVERY (THERMAL) CAPACITY INLET / OUTLET CONDITIONS						
EQUIP. NUMBER	MODEL NO.	FLOW	STATIC PRESSURE (EXTERNAL)	FAN MOTORS	FLA (EACH MOTOR)	VOLTS/ PHASE/ HZ	MCA (SINGLE POINT)	MOCP (SINGLE POINT)	COOLING CAPACITY (MBH / TON)	HEATING CAPACITY (MBH)	OUTSIDE AIR TEMP(F) & HUMIDITY ROOM AIR TEMP (F) & HUMIDITY (DB) / (WB OR RH)			NOTES:	
									TOTAL	TOTAL	SUMMER	WINTER	SUMMER	WINTER	
ERV-1, 2, & 3	RENEWAIRE HE—2XJINH—D15UU——DANT———L	1600 CFM	0.5 IN H <sub>2</sub> 0	(2) 1.5 HP	11.41 A	230V 1 PH 60 HZ	18.5 A	25 A	32.79/2.73	76.78	94F / 73F	18F	75F / 50%	72F / 50%	ALL

#### NOTES:

- 1. FLOW & LOADS BASED ON ARI-1060 PERFORMANCE & CERTIFIED CORE.
- 2. SHUT DOWN ALL FANS ON DUCT SMOKE DETECTOR ALARM CONDITION.
- 3. VENTILATION TYPE: CORE TYPE HEAT EXCHANGER, HEAT & HUMIDITY TRANSFER. 4. INCLUDE INTEGRAL DISPOSABLE FILTERS (OUTSIDE AND ROOM AIR) WITH MERV8 OR BETTER RATING.
- 5. INCLUDE SINGLE POINT ELECTRICAL POWER CONNECTION.
- 6. HOUSING SHALL BE GALVANIZED, .20 GAUGE (OR THICKER) STEEL WITH LAPPED CORNERS. OR APPROVED EQUALS.
- 8. SERVICE ACCESS DOORS SHALL BE GASKETED & PROVIDE ACCESS FOR MAINTENANCE OF ALL COMPONENTS.
- 9. INCLUDE INSULATION ON ALL CASE WALLS & DOORS. 10. INCLUDE THERMALLY PROTECTED MOTORS WITH STARTERS.
- 11. UL LISTED 1995
- 12. PROVIDE WITH FUSED DISCONNECT SWITCH.
- 13. ERV UNITS SHALL RUN AT ALL TIMES WHEN AHU FANS ARE RUNNING.

#### AIR DISTRIBUTION SCHEDULE FACE NECK NOTES MATERIAL MARK MANUFACTURER \* SERVICE MODEL NO. SIZE SIZE EXTRUDED COLOR SELECTED BY ARCHITECT. GYPSUM BOARD CEILING, ROUND NECK. 14" X 14" 8" DIA. SUPPLY CARNES ALUMINUM EXTRUDED COLOR SELECTED BY ARCHITECT. GYPSUM BOARD CEILING, ROUND NECK. CARNES 12" X 12" 6" DIA SASM ALUMINUM COLOR SELECTED BY ARCHITECT. GYPSUM BOARD CEILING CARNES 9-7/16" X 62-1/4" 8-5/16" X 60" SUPPLY CHFB ALUMINUM COLOR SELECTED BY ARCHITECT. GYPSUM BOARD CEILING PROVIDE ROUND TO RECTANGULAR DUCT COLLAR. 14" X 14" 12" X 12" RETURN RA RAAMH ALUMINUM CARNES COLOR SELECTED BY ARCHITECT. GYPSUM BOARD CEILING EA 26" X 14" 24" X 12" ALUMINUM **EXHAUST** CARNES PROVIDE ROUND TO RECTANGULAR DUCT COLLAR.

COORDINATE BORDER TYPE WITH THE CEILING/WALL TYPE. SEE ARCH SHEETS PROVIDE DUCT TRANSITIONS AS REQUIRED.

\* OR APPROVED EQUALS

# MECHANICAL SYSTEMS AND EQUIPMENT

Energy Cost Budget

METHOD OF COMPLIANCE:

Thermal Zone

Exterior Design Conditions winter dry bulb summer dry bulb 93 F

Prescriptive

Interior Design Conditions winter dry bulb summer dry bulb 75 F

relative humidity

324,800 BTU/hr -230,334 BTU/h(energy recovery unit reduction) Building Heating Load 94,466 BTU/hr

**Building Cooling Load** 

240,500 BTU/hr -98,373 BTU/hr (energy recovery unit reduction) 142,127 BTU/hr

Mechanical Spacing Conditioning System

Unitary — The building is served by (6) 3.5 ton split system heat pumps with (3) 1600 cfm energygy recovery ventilators.

Boiler — Not applicable to this project. Chiller - Not applicable to this project.

Equipment efficiencies

Efficiencies and outputs are listed on equipment schedules - See drawings.

Equipment schedules with motors.

Motors used on this project are included in the efficiency rating of the unit. See drawings for efficiencies.

WBS: 15RE.10.3 SCO ID# 18-19070-01A

PROJECT TITLE NORTHAMPTON CTY. REST AREA- RENOV. I-95 NEAR VA STATE LINE PLEASEANT HILL, NORTH CAROLINA

> PROJECT NO. 1704a

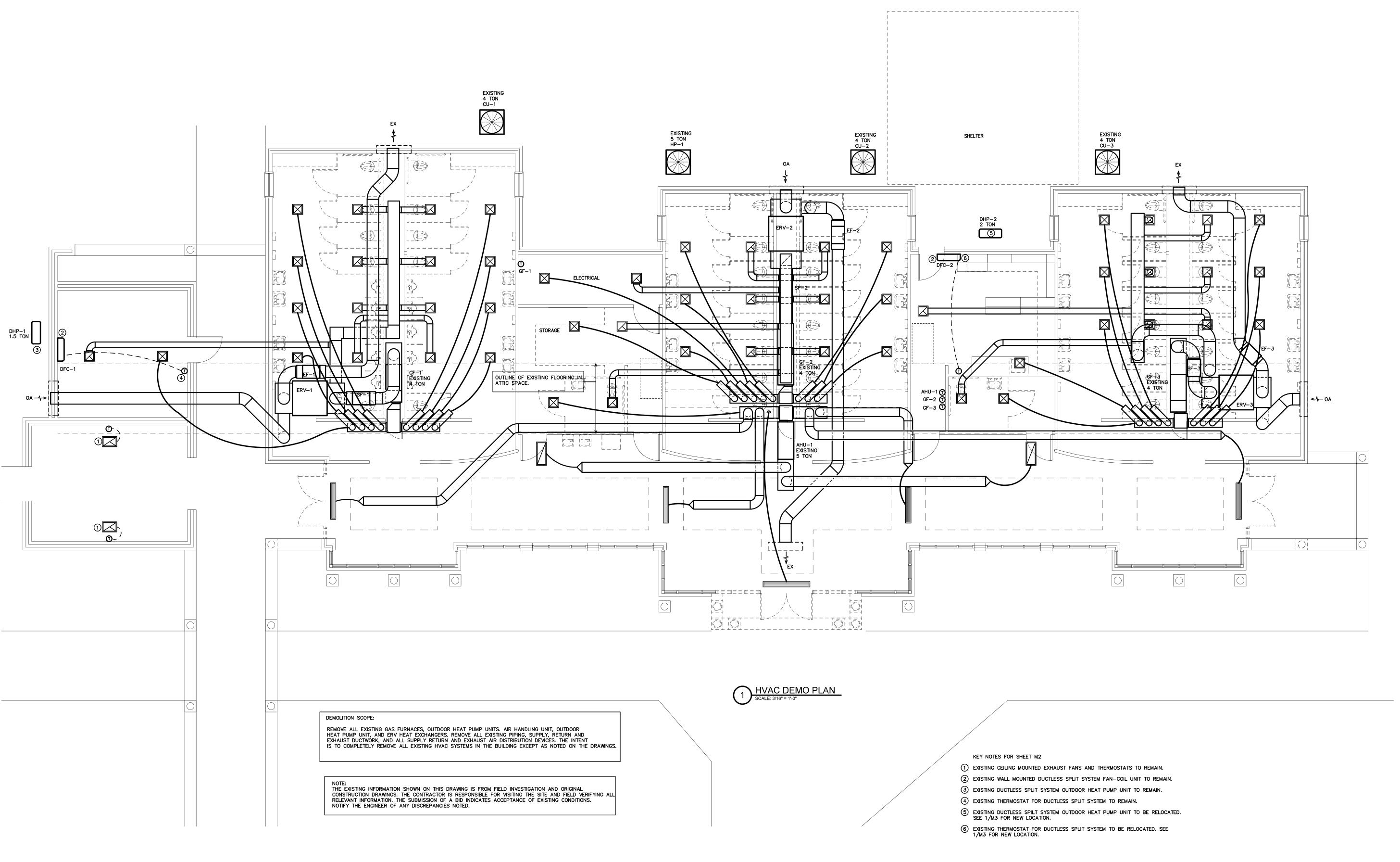
DRAWING TITLE HVAC SCHEDULES, NOTES

PLOT DATE

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WBS: 15RE.10.3 SCO ID# 18-19070-01A

PROJECT TITLE

NORTHAMPTON CTY.

REST AREA— RENOV.

I-95 NEAR VA STATE LINE

PLEASEANT HILL, NORTH CAROLINA

PROJECT NO. **1704**a

DRAWING TITLE

HVAC DEMO PLAN



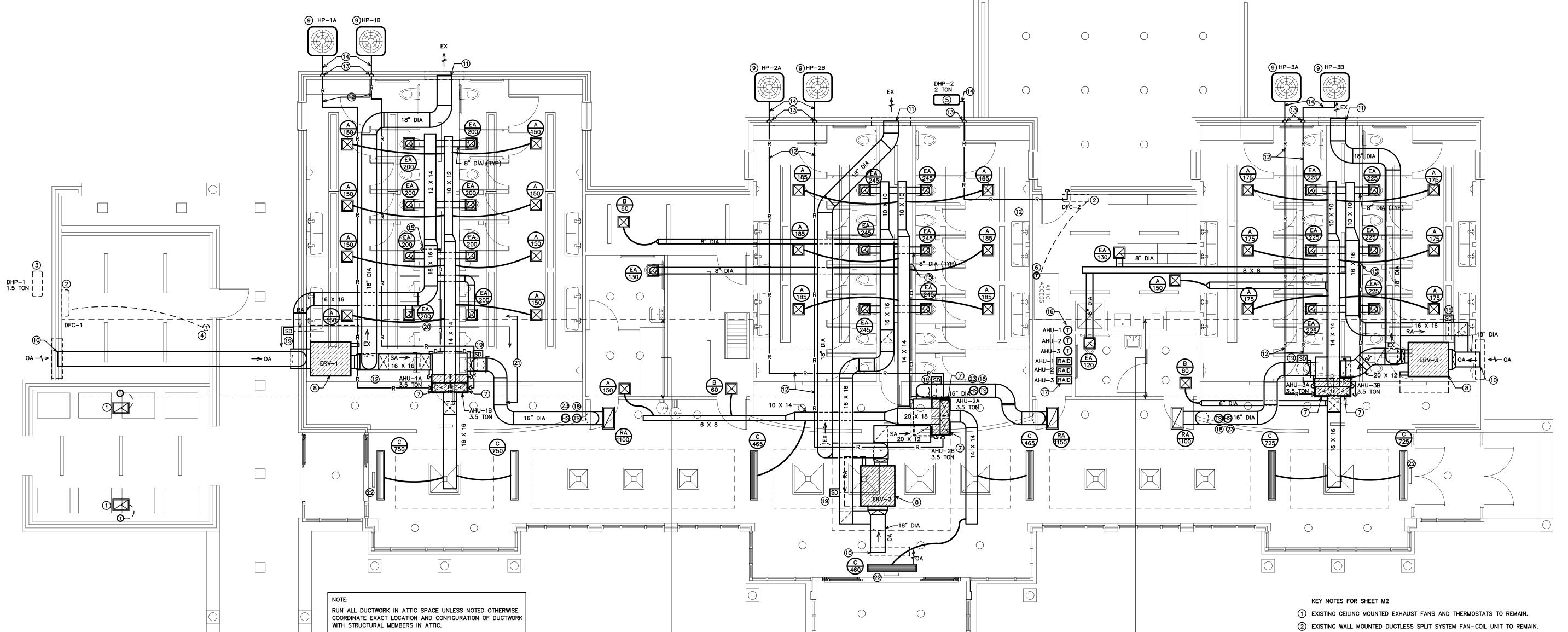
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REVISED HVAC PLAN

OUTLINE OF FLOOR IN ATTIC MECHANICAL SPACE.

SPACE. ATTIC FLOORING BY GENERAL CONTRACTOR.

THAT IS 8'-0" HIGH. ALL DUCTWORK AND PIPING

THE FLOOR OF THE SPACE. THE WALKING SERVICE

PATH SHALL REMAIN CLEAR OF ANY DUCTWORK.

CLOSED IN ATTIC MECHANICAL SPACE HAS A CEILING

(EXCEPT CONDENSATE PIPING) SHALL BE RUN OVERHEAD

IN MECHANICAL SPACE. NO DUCTWORK SHALL RUN ACROSS

ARRANGE DUCTWORK SO THAT ALL EQUIPMENT CAN BE REMOVED FROM ATTIC WITH REMOVAL OF DUCTWORK. (TYPICAL).

AS HIGH AS POSSIBLE TO MAINTAIN HEAD CLEARANCE

- (3) EXISTING DUCTLESS SPLIT SYSTEM OUTDOOR HEAT PUMP UNIT TO REMAIN.
- (4) EXISTING THERMOSTAT FOR DUCTLESS SPLIT SYSTEM TO REMAIN.
- 5 NEW LOCATION FOR EXISTING DUCTLESS SPILT SYSTEM OUTDOOR HEAT PUMP UNIT. MOUNT ON 4" THICK CONCRETE PAD. PROVIDE ALL MANUFACTURER'S REQUIRED CLEARANCES AROUND UNIT. RUN REFRIGERANT PIPING AND CONTROL CIRCUIT
- 6 NEW LOCATION OF EXISTING THERMOSTAT FOR DUCTLESS SPLIT SYSTEM. MOUNT AT 48" AFF.
- 7 NEW VERTICAL AIR HANDLING UNIT MOUNTED ON ATTIC PLATFORM. SEE DETAIL 1/M4. PROVIDE ALL MANUFACTURER'S REQUIRED CLEARANCES AROUND UNIT.
- (8) NEW ENERGY RECOVERY VENTILATOR (ERV) MOUNTED ON ATTIC PLATFORM. SEE DETAIL 1/M4. PROVIDE ALL MANUFACTURER'S REQUIRED CLEARANCES AROUND UNIT.
- 9 NEW OUTDOOR HEAT PUMP MOUNTED ON 4" THICK CONCRETE PAD.
- (10) RUN OUTSIDE AIR DUCT TO EXISTING WALL LOUVER.
- 11) RUN EXHAUST DUCT TO EXISTING WALL LOUVER.
- (2) RUN PIPING IN ATTIC SPACE. (TYPICAL).
- (13) RUN REFRIGERANT PIPING DOWN CONCEALED IN EXTERIOR WALL. (4) PAINT ALL EXTERIOR EXPOSED INSULATION ON REFRIGERANT PIPING
- WITH UV RESISTANT PAINT.
- (5) RUN CONDENSATE PIPING DOWN TIGHT AGAINST WALL IN PLUMBING CHASE TO FLOOR DRAIN. PROVIDE AIR GAP AT FLOOR DRAIN. FLOOR DRAIN BY PLUMBING CONTRACTOR.
- (6) (3) NEW THERMOSTATS. MOUNT AT 48" AFF. PROVIDE REMOTE DUCT MOUNTED TEMPERATURE SENSOR AND HUMIDITY SENSOR FOR THERMOSTAT. PROVIDE CLEAR PLASTIC, VANDAL RESISTANT, LOCKABLE COVER FOR
- (3) NEW WALL MOUNTED REMOTE ALARM INDICATING DEVICE (ERV) FOR DUCT SMOKE DETECTOR. MOUNT AT 48" AFF.
- (18) DUCT MOUNTED REMOTE TEMPERATURE SENSOR FOR THERMOSTAT/HUMIDSTAT.
- (9) RETURN DUCT MOUNTED SMOKE DETECTOR FOR FAN SHUT-DOWN. DETECTOR SHALL BE IN ACCESSIBLE LOCATION. PROVIDE DUCT ACCESS DOOR.
- ② SEE SECTION 1/M4.
- 21 SEE SECTION 2/M4.
- COORDINATE CEILING DIFFUSER LOCATION WITH CEILING MOUNTED EXIT LIGHT FIXTURE. SEE SHEET E3 FOR LIGHT FIXTURE LOCATIONS. (TYPICAL).
- 23 DUCT MOUNTED REMOTE HUMIDISTAT SENSOR FOR THERMOSTAT/HUMIDSTAT.

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WBS ELEMENT 15RE.10.3 SCO ID# 18-19070-01A

PROJECT TITLE NORTHAMPTON CTY. REST AREA- RENOV. I-95 NEAR VA STATE LINE PLEASEANT HILL, NORTH CAROLINA

PROJECT NO. 1704a

DRAWING TITLE REVISED HVAC PLAN

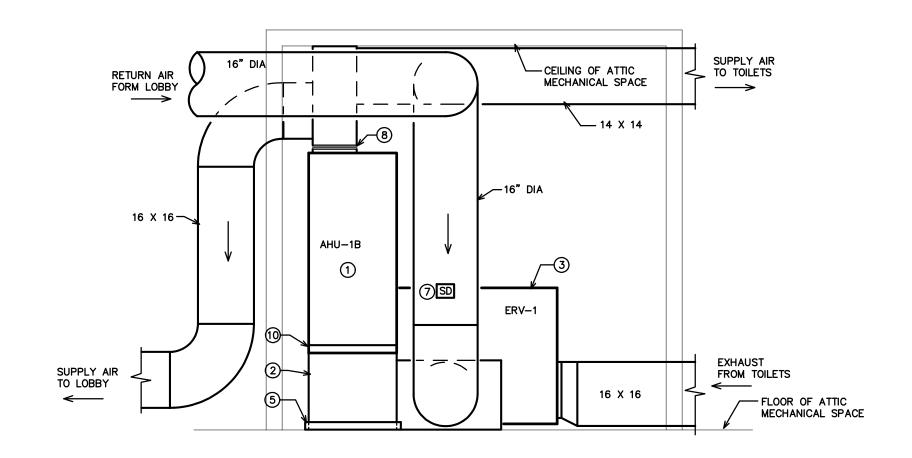


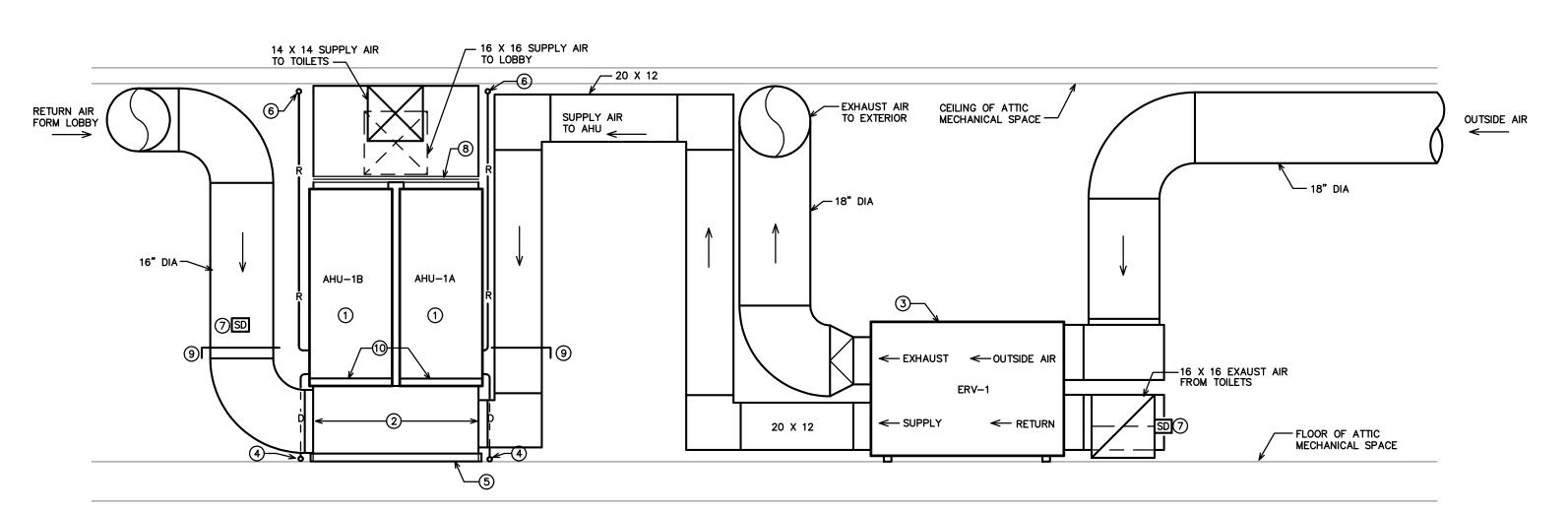
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2 ATTIC MECHANICAL SPACE SECTION
SCALE: 1/2" = 1'-0"

NOTE: SECTIONS SHOW TYPICAL INSTALLATION OF AIR HANDLING UNITS AND ENERGY RECOVERY VENTILATORS AND ASSOCIATED DUCTWORK FOR ALL AIR HANDLING UNITS AND ENERGY RECOVERY VENTILATORS.

\ ATTIC MECHANICAL SPACE SECTION

#### KEY NOTES FOR SHEET M4

- 1 VERTICAL AIR HANDLING UNIT. PROVIDE ALL MANUFACTURER'S CLEARANCES AROUND UNIT.
- ② RETURN AIR PLENUM.
- (ERV) ENERGY RECOVERY VENTILATOR) PROVIDE ALL MANUFACTURER'S CLEARANCES AROUND UNIT.
- 4 RUN CONDENSATE ROUTED AS SHOWN ON PLANS TO FLOOR DRAIN IN PLUMBING CHASE BETWEEN TOILETS. INSULATE CONDENSATE PIPING FOR ENTIRE LENGTH WITH CLOSED CELL INSULATION.
- 5 DRAIN PAN UP AIR HANDLING UNITS. PROVIDE FLOAT SWITCH IN PAN FOR UNIT SHUT-DOWN.
- 6 RUN REFRIGERANT PIPING AS HIGH AS POSSIBLE OVERHEAD IN ATTIC MECHANICAL SPACE.
- 7 DUCT TYPE SMOKE DETECTOR IN RETURN AIR DUCT. DETECTOR SHALL BE IN ACCESSIBLE LOCATION. PROVIDE ACCESS DOOR IN DUCT FOR DETECTOR.
- (8) FLEXIBLE DUCT AT DUCT CONNECTION TO ALL EQUIPMENT. (TYPICAL)
- MANUAL BALANCING DAMPER.
- (10) FILTER RACK FOR 1" THICK PLEATED FILTER. FILTER RACK SHALL HAVE HINGED DOOR.

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PROJECT TITLE NORTHAMPTON CTY. REST AREA- RENOV. I-95 NEAR VA STATE LINE PLEASEANT HILL, NORTH CAROLINA

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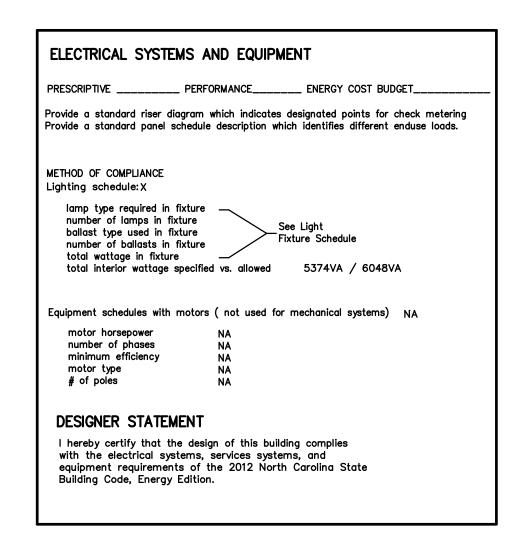
DRAWING TITLE HVAC DETAILS

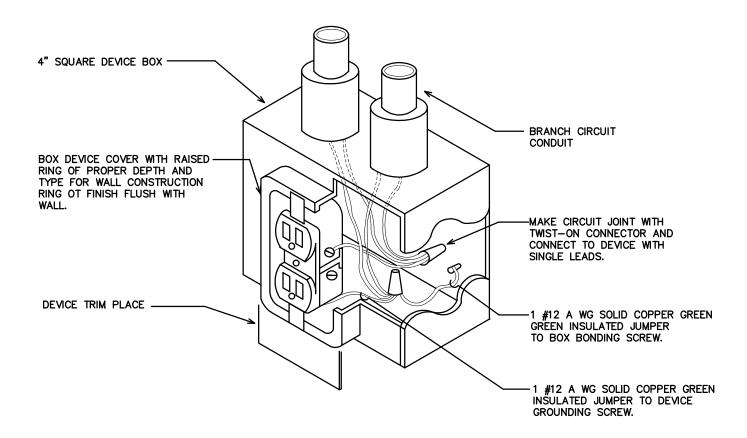


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# RECEPTACLE GROUNDING DETAIL

#### ELECTRICAL NOTES

1 EQUIPMENT OF TRADES OTHER THAN ELECTRICAL.

2 CONDUIT &WIRING BY HVAC PLUMBING CONTRACTOR, OR OTHER TRADES

3 IF AN ADDITIONAL DISCONNECT IS REQUIRED BY NEC, IT SHALL BE PROVIDED AND INSTALLED BY THE EQUIPMENT

(4) A COMBINATION STARTER OR VFD MAY BE USED IN LIEU OF A SEPARATE DISCONNECT SWITCH AND STARTER. LOCATE ADJACENT TO EQUIPMENT.

(5) FEEDER CIRCUIT WIRING AND CONDUIT IN ELECTRICAL WORK. SEE PANELBOARD SCHEDULES FOR WIRE AND

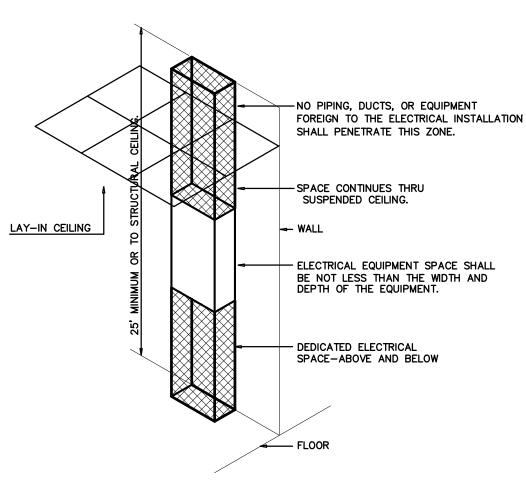
6 JUNCTION BOX MAY BE SHOWN ON ELECTRICAL PLANS FOR SOME EQUIPMENT IF NO STARTER OR DISCONNECT IS SUPPLIED, A JUNCTION BOX SHALL BE INSTALLED ADJACENT TO EQUIPMENT. THE ELECTRICAL CONTRACTOR SHALL PROVIDE LINE SIDE WIRING TO THE JUNCTION BOX. LOAD SIDE WIRING WILL BE PROVIDED BY MECHANICAL CONTRACTOR OR OTHER TRADES.

7) PROJECTS UTILIZING AN MCC. THE STARTER, CB, OR VFD IN THE MCC ARE PROVIDED BY THE ELECTRICAL

(8) IN ALL CASES THE EQUIPMENT CONTRACTOR SHALL MAKE FINAL CONNECTIONS, START UP, AND TEST EQUIPMENT.

(9) IF THE ROOF TOP EQUIPMENT IS NOT PROVIDED WITH BUILT IN SWITCH, THE ELECTRICAL CONTRACTOR SHALL PROVIDE A DISCONNECT SWITCH.

10 IN A SINGLE PRIME CONTRACT, IT IS THE RESPONSIBITY OF THE PRIME CONTACTOR TO COORDINATE BETWEEN THE ELECTRICAL AND OTHERS TRADES.



ELECTRICAL EQUIPMENT DEDICATED SPACE PER ARTICLE 110.26.F.1 OF N.E.C.



#### ELECTRICAL NOTES

- 1 ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND ALL LOCAL CODES HAVING JURISDICTION.
- 2 ALL BRANCH CIRCUIT CONDUCTORS TO BE COPPER (SERVICE CONDUCTORS MAY BE ALUMINUM WITH SAME AMPACITY AS COPPER CONDUCTORS. RE-SIZE CONDUCTERS AND CONDUIT PER NEC.)
- 3 ALL CIRCUITS TO BE 2 #12, 1 #12 GND IN 1/2" EMT CONDUIT AS A MINIMUM. PROVIDE WIRING FOR LARGER CIRCUITS AS REQUIRED BY NEC. RIGID CONDUIT IS REQUIRED WHERE EXPOSED BELOW 8'-0" A.F.F.
- 4 ALL EMPTY CONDUIT RUNS IN EXCESS OF 10 FEET SHALL BE PROVIDED WITH A PULL WIRE OR FISH TAPE/CORD.
- 5 CONTRACTOR SHALL VERIFY THAT ALL DOOR SWINGS ARE CORRECT BEFORE INSTALLING LIGHT SWITCH OUTLETS.
- 6 ALL BRANCH CIRCUIT CONDUCTORS FROM THE PANEL TO THE FIRST OUTLET SHALL BE INCREASED TO THE NEXT LARGER SIZE WHERE THE LENGTH OF THE HOME RUN EXCEEDS 120 FEET ON 120V AND 208V CIRCUITS.
- 7 THE CORRECT NUMBER OF WIRES MAY NOT BE INDICATED FOR ALL CIRCUITS, ONLY THOSE WHERE CLARIFICATION IS NECESSARY. THE ELECTICAL CONTRACTOR SHALL PROVIDE ALL WIRES NECESSARY FOR THE PROPER FUNCTION OF THE SYSTEM WHETHER INDICATED ON DRAWINGS OR NOT.
- 8 THE CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTLY PHASING THE CIRCUITS IN THE PANELBOARDS.
- 9 THE ELECTRICAL CONTRACTOR SHALL VERIFY THE TYPE OF CEILING SYSTEM WITH THE GENERAL CONTRACTOR TO INSURE THAT ALL LIGHTING FIXTURES ARE COMPATIBLE WITH THE CEILING SYSTEM BEING INSTALLED. LIGHTING FIXTURES SHOULD NOT BE ORDERED UNTIL TYPE OF CEILING HAS BEEN VERIFIED.
- 10 ELECTRICAL REQUIREMENTS INDICATED ON DRAWINGS MAY DIFFER FROM ACTUAL EQUIPMENT FURNISHED. IF FURNISHED EQUIPMENT DIFFERS FROM RATINGS ON DRAWINGS CONTRACTOR SHALL NOTIFY ARCHITECT/ENGINEER FOR APPROPRIATE ACTION TO BE TAKEN.
- 11 IT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO COORDINATE EXACT BREAKER REQUIREMENTS FOR ALL EQUIPMENT PRIOR TO ORDERING PANEL. ADJUST BREAKER AND WIRE SIZES AS REQUIRED.
- 12 PROVIDE BOXES, JACKS, WRING AND CONDUIT FROM LOCATIONS SHOWN TO MTP LOCATION. VERIFY EXACT REQUIREMENTS WITH OWNER.
- 13 ELECTRICAL CONTRACTOR SHALL PROVIDE ALL DISCONNECTS FOR MECHANICAL AND PLUMBING EQUIPMENT. DISCONNECTS SHALL BE PER THE MANUFACTURES RECOMMENDATIONS AND FUSED PER NAME PLATE. PROVIDE NEMA 3R ENCLOSURES ON EXTERIOR. COORDINATE FUSE SIZES.
- THE EC SHALL MEET WITH THE ARCHITECT AND TENANT PRIOR TO INSTALLING OUTLET BOXES TO VERIFY LOCATIONS AND MOUNTING HEIGHTS OF RECEPTACLES AND TELEPHONE OUTLETS.

#### ELECTRICAL LEGEND

LIGHT FIXTURE: LETTER DENOTES FIXTURE TYPE (REFER TO LIGHTING PLAN AND FIXTURE SCHEDULE).  $O_{\mathsf{x}}$ NL = NIGHT LIGHT (NOT SWITCHED/ALWAYS ON)

DUPLEX RECEPTACLE - 120V; MOUNT 18" TO CENTER AFF UNLESS NOTED OTHERWISE; 'WP' INDICATES WEATHER PROOF. 'GFI' INDICATES GROUND FAULT CURRENT INTERRUPT PROTECTED.

LIGHT SWITCH

SWITCH WITH INTEGRAL PIR/US MOTION SENSOR FOR AUTOMATIC SHUT-OFF WITH UP TO 2 HOUR ADJUSTABLE DELAY.

DIMMABLE LIGHT SWITCH

LIGHT SWITCH WITH INTEGRATED OPERATION LIGHT

MOTOR RATED SWITCH

JUNCTION BOX

TELE/DATA OUTLET - PROVIDE JUNCTION BOX WITH CONDUIT BACK TO MTP. PROVIDE (1) TELEPHONE JACK AND (1) CAT 5 DATA JACK

SINGLE-POLE HOMERUN TO PANELBOARD

TWO-POLE OR 3-POLE HOMERUN TO PANELBOARD

EXIT LIGHT

EMERGENCY EGRESS FIXTURE

PHOTOCELL

---- SWITCH LEG

BRANCH CIRCUIT WIRING

GROUND CONNECTION

PANEL A DISCONNECTING MEANS AS REQUIRED BY CODE

DISTRIBUTION PANELBOARD

EXPOSED LIVE PARTS ON ONE SIDE OF THE WORKING SPACE AND NO LIVE OR GROUNDED PARTS ON THE

OTHER SIDE OF THE WORKING SPACE, OR EXPOSED LIVE

PARTS ON BOTH SIDES OF THE WORKING SPACE THAT

ARE EFFECTIVELY GUARDED BY INSULATING MATERIALS.

2 EXPOSED LIVE PARTS ON ONE SIDE OF THE WORKING SPACE AND GROUNDED PARTS ON THE OTHER SIDE

OF THE WORKING SPACE. CONCRETE, BRICK OR TILE

WALLS SHALL BE CONSIDERED AS GROUNDED.

SPACE.

**ELECTRICAL CLEARANCES** 

3 EXPOSED LIVE PARTS ON BOTH SIDES OF THE WORK

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WBS: 15RE.10.3 SCO ID# 18-19070-01A

PROJECT TITLE NORTHAMPTON CTY. REST AREA- RENOV. I-95 NEAR VA STATE LINE PLEASEANT HILL, NORTH CAROLINA

PROJECT NO. 1704a

DRAWING TITLE **ELECTRICAL SPECIFICATIONS** 

PLOT DATE

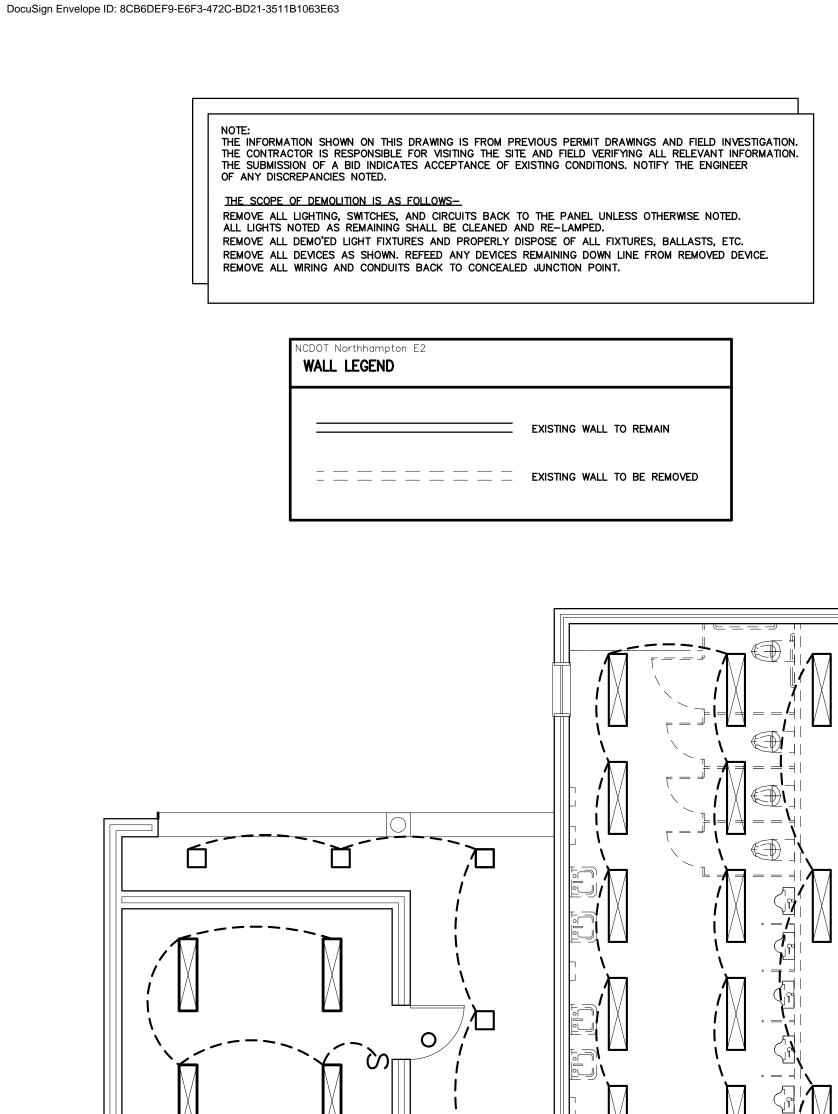
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- STRUCTURAL CEILING 30" MINIMUM OF WIDTH OF EQUIP - SUSPENDED CEILING - ELECTRICAL EQUIPMENT - EVEN WITH FRONT EDGE OF EQUIPMENT DEDICATED ELECTRICAL EQUIP. WORKING CLEARANCE THIS FIGURE ILLUSTRATES THE WORKING SPACE IN FRONT OF THE ELECTRICAL EQUIPMENT REQUIRED BY SECTION 110.26 OF THE N.E.C. WHERE THE CONDITIONS ARE AS FOLLOWS:

ELECTRICAL EQUIPMENT WORKING CLEARANCE PER ARTICLE 110.26 OF N.E.C.

PER AF	KIICLE I	10.26	OF N.E.C	<i>,</i> .
V	VORKING	CLEAF	RANCES	
VOLTAGE TO			DISTANCE IN	FEET
GROUND NOMINAL	CONDITION:	: 1	2	3
0–150 151–600		3 3	3 3–1/2	3 4



STORAGE



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Ben Burke 9/18/2018 6:43:56 PM EDT

WBS: 15RE.10.3 SCO ID# 18-19070-01A

PROJECT TITLE NORTHAMPTON CTY. REST AREA- RENOV. I—95 NEAR VA STATE LINE PLEASEANT HILL, NORTH CAROLINA

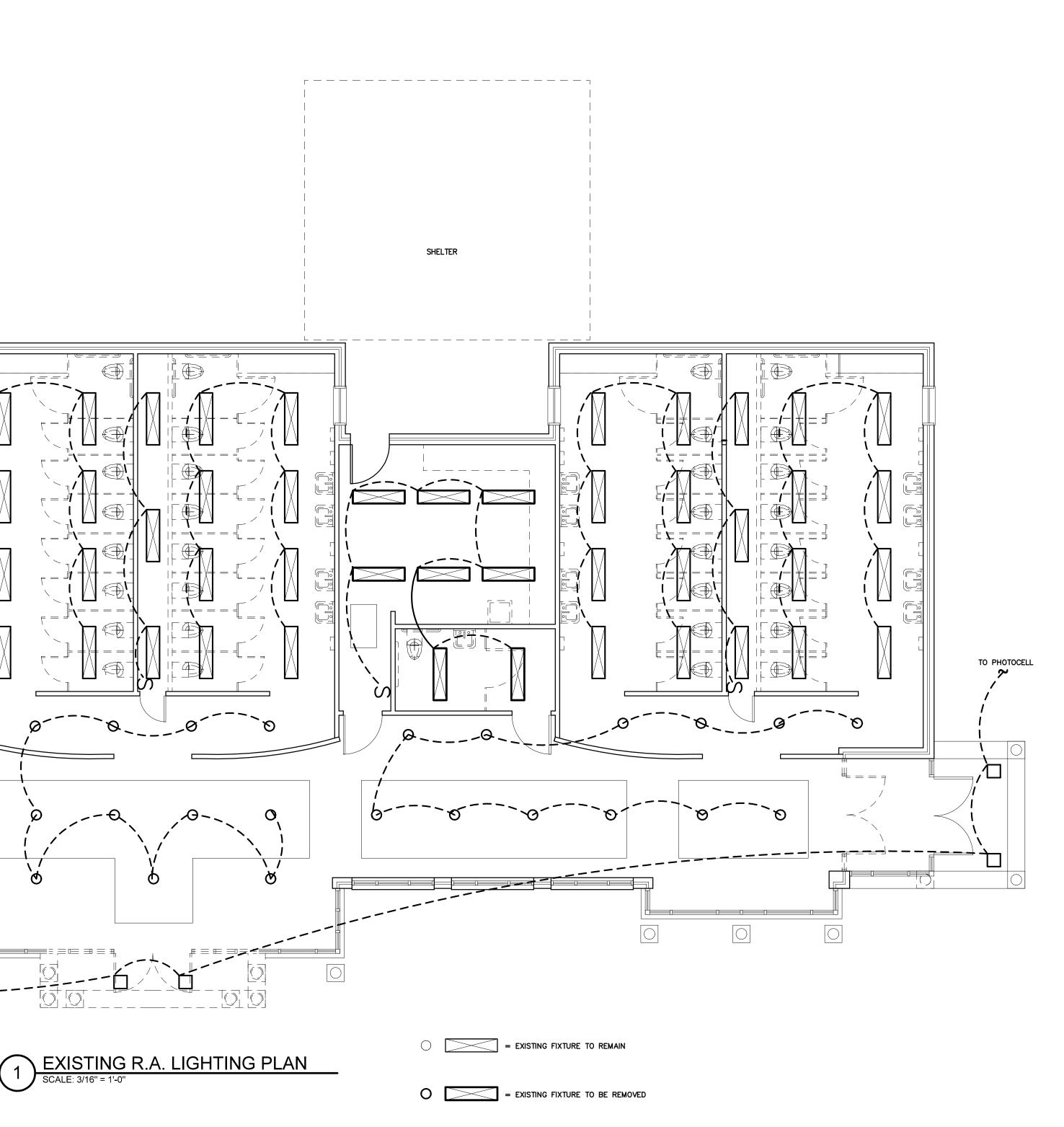
PROJECT NO. 1704a

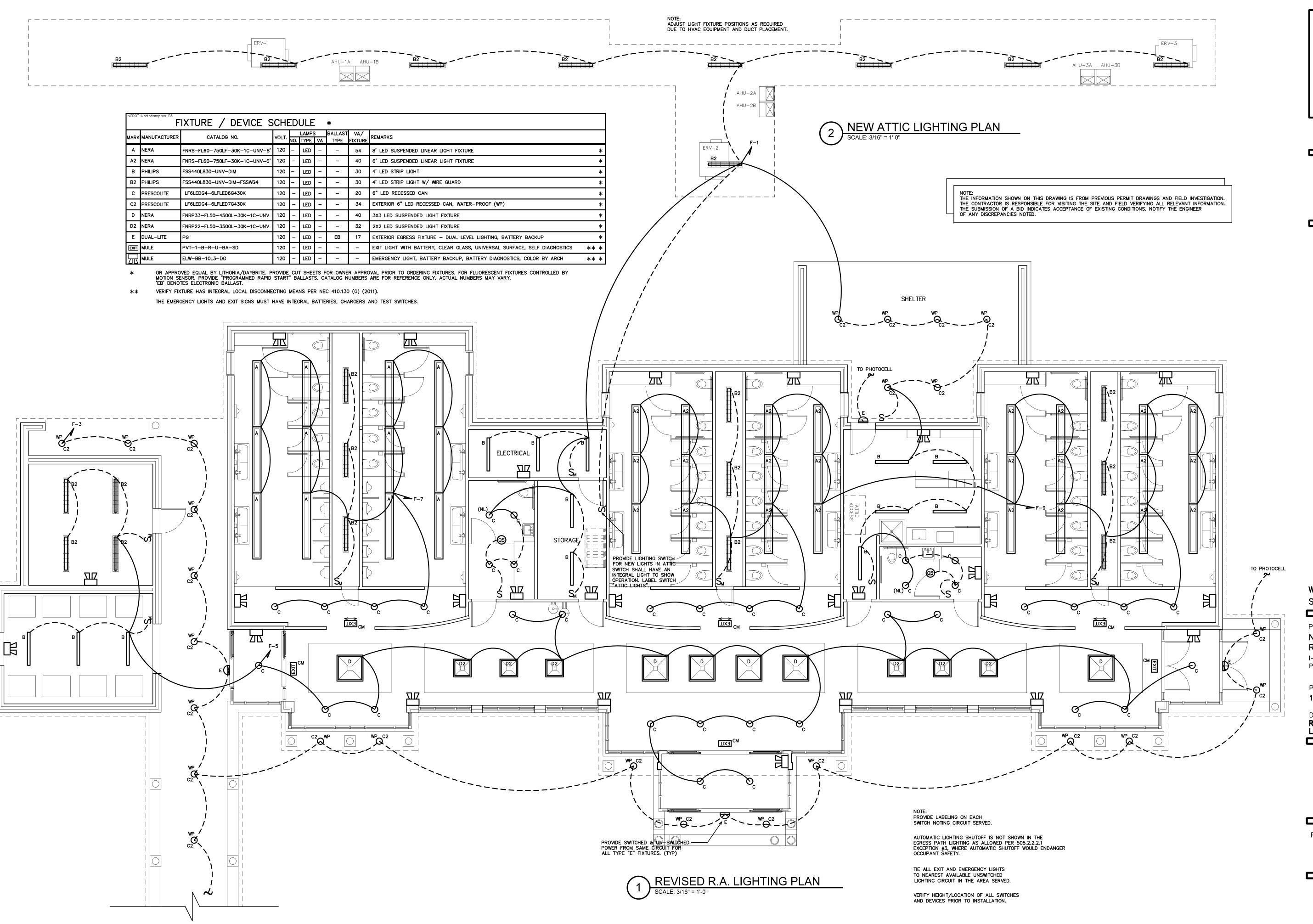
DRAWING TITLE
EXISTING REST AREA
LIGHTING PLAN

PLOT DATE

9/18/18

This original sheet is 22" x 34"; other dimensions indicate it has been altered.





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WBS: 15RE.10.3 SCO ID# 18-19070-01A

PROJECT TITLE NORTHAMPTON CTY. REST AREA- RENOV.

I-95 NEAR VA STATE LINE PLEASEANT HILL, NORTH CAROLINA

PROJECT NO. 1704a

DRAWING TITLE REVISED REST AREA LIGHTING PLAN

PLOT DATE

9/18/18

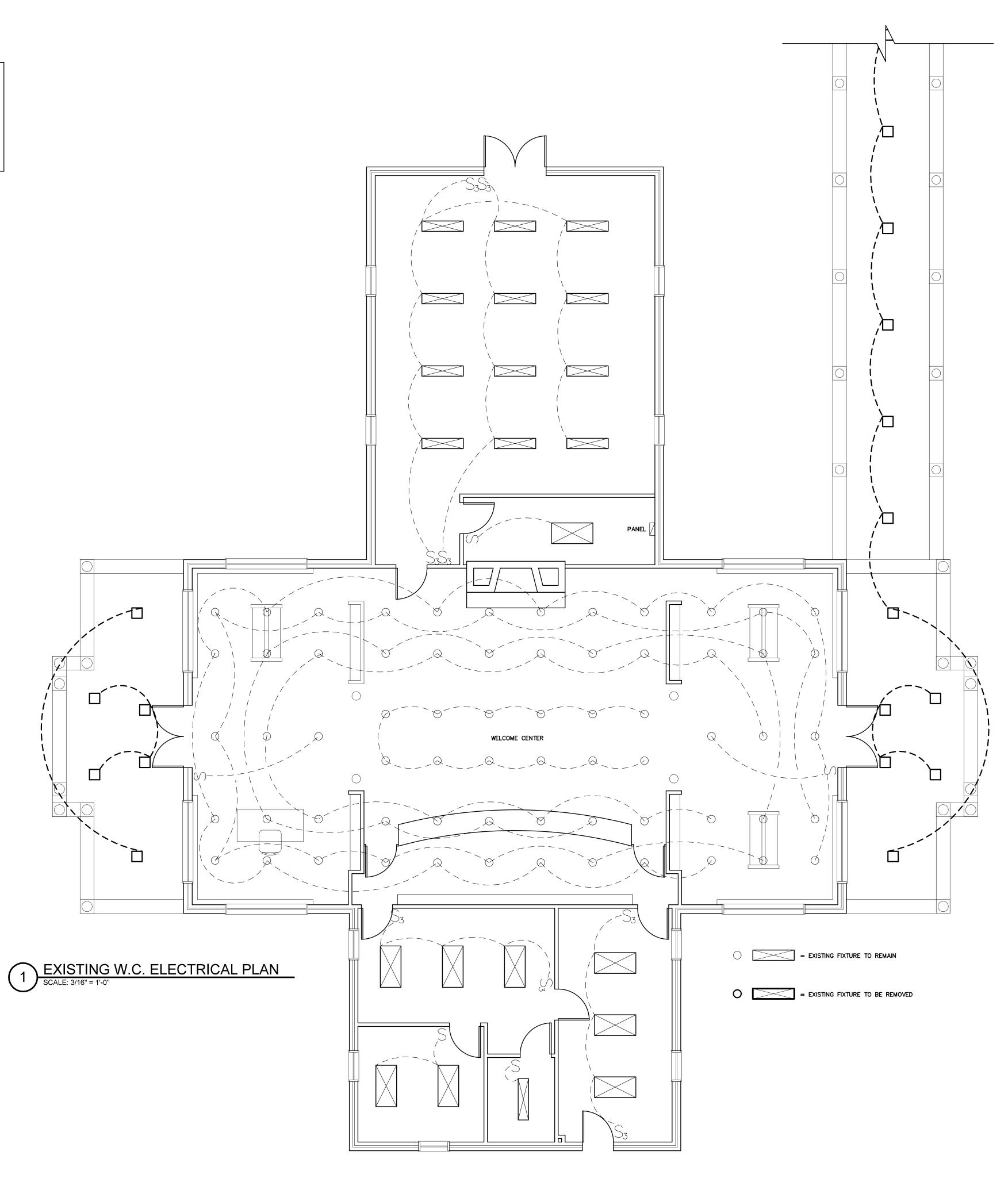
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THE CONTRACTOR IS RESPONSIBLE FOR VISITING THE SITE AND FIELD VERIFYING ALL RELEVANT INFORMATION.
THE SUBMISSION OF A BID INDICATES ACCEPTANCE OF EXISTING CONDITIONS. NOTIFY THE ENGINEER
OF ANY DISCREPANCIES NOTED.

THE SCOPE OF DEMOLITION IS AS FOLLOWS-

REMOVE ALL LIGHTING, SWITCHES, AND CIRCUITS BACK TO THE PANEL UNLESS OTHERWISE NOTED. ALL LIGHTS NOTED AS REMAINING SHALL BE CLEANED AND RE-LAMPED. REMOVE ALL DEMO'ED LIGHT FIXTURES AND PROPERLY DISPOSE OF ALL FIXTURES, BALLASTS, ETC.

REMOVE ALL DEVICES AS SHOWN. REFEED ANY DEVICES REMAINING DOWN LINE FROM REMOVED DEVICE. REMOVE ALL WIRING AND CONDUITS BACK TO CONCEALED JUNCTION POINT.

> WALL LEGEND EXISTING WALL TO REMAIN \_ \_ \_ \_ \_ EXISTING WALL TO BE REMOVED



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Ben Burke 9<del>18</del>92018863443:56 PM EDT

WBS: 15RE.10.3 SCO ID# 18-19070-01A

PROJECT TITLE NORTHAMPTON CTY. REST AREA- RENOV. I-95 NEAR VA STATE LINE PLEASEANT HILL, NORTH CAROLINA

PROJECT NO. 1704a

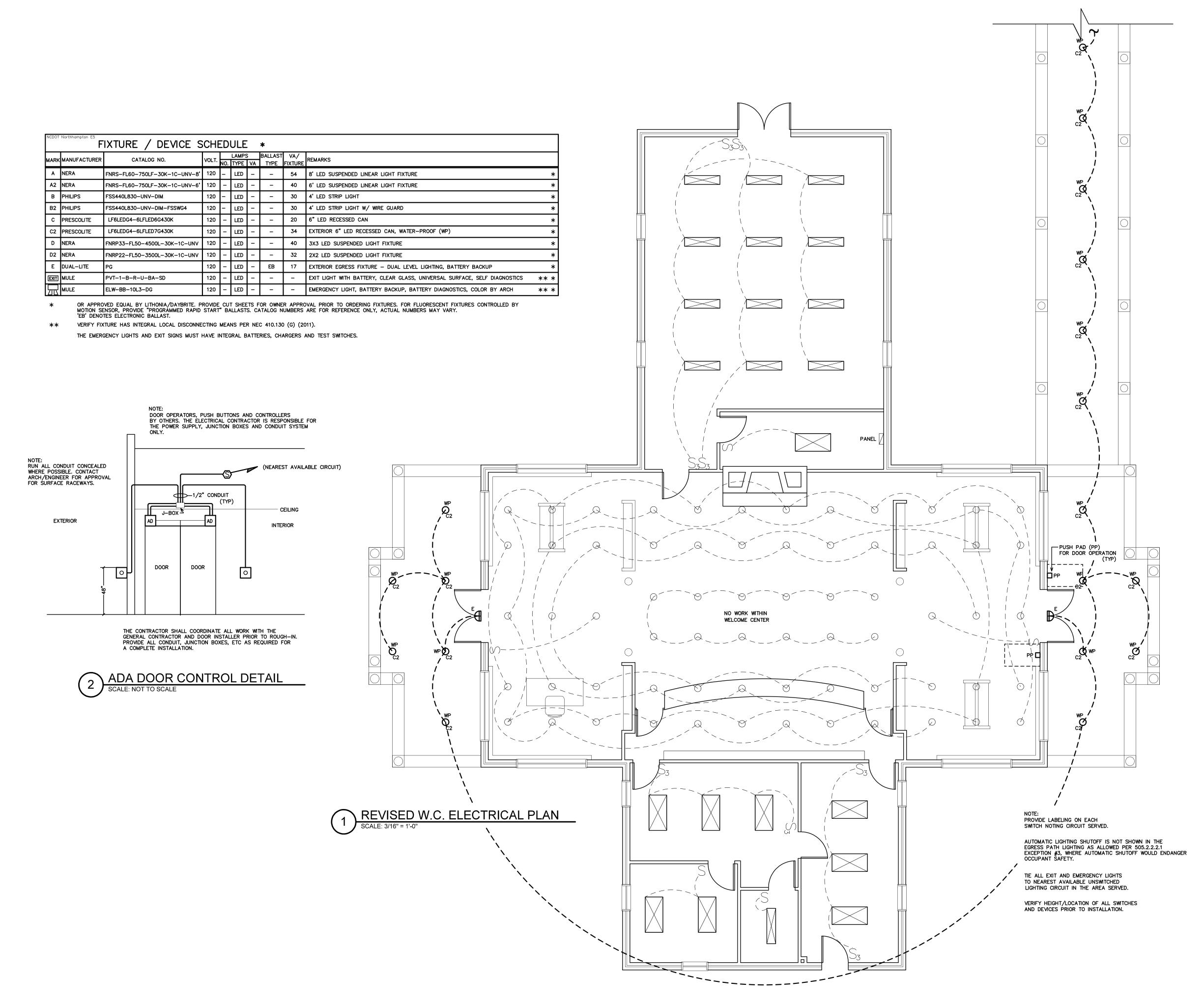
DRAWING TITLE EXISTING WELCOME CENTER ELECTRICAL PLAN



PLOT DATE

9/18/18

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WBS: 15RE.10.3 SCO ID# 18-19070-01A

PROJECT TITLE NORTHAMPTON CTY. REST AREA- RENOV. I-95 NEAR VA STATE LINE PLEASEANT HILL, NORTH CAROLINA

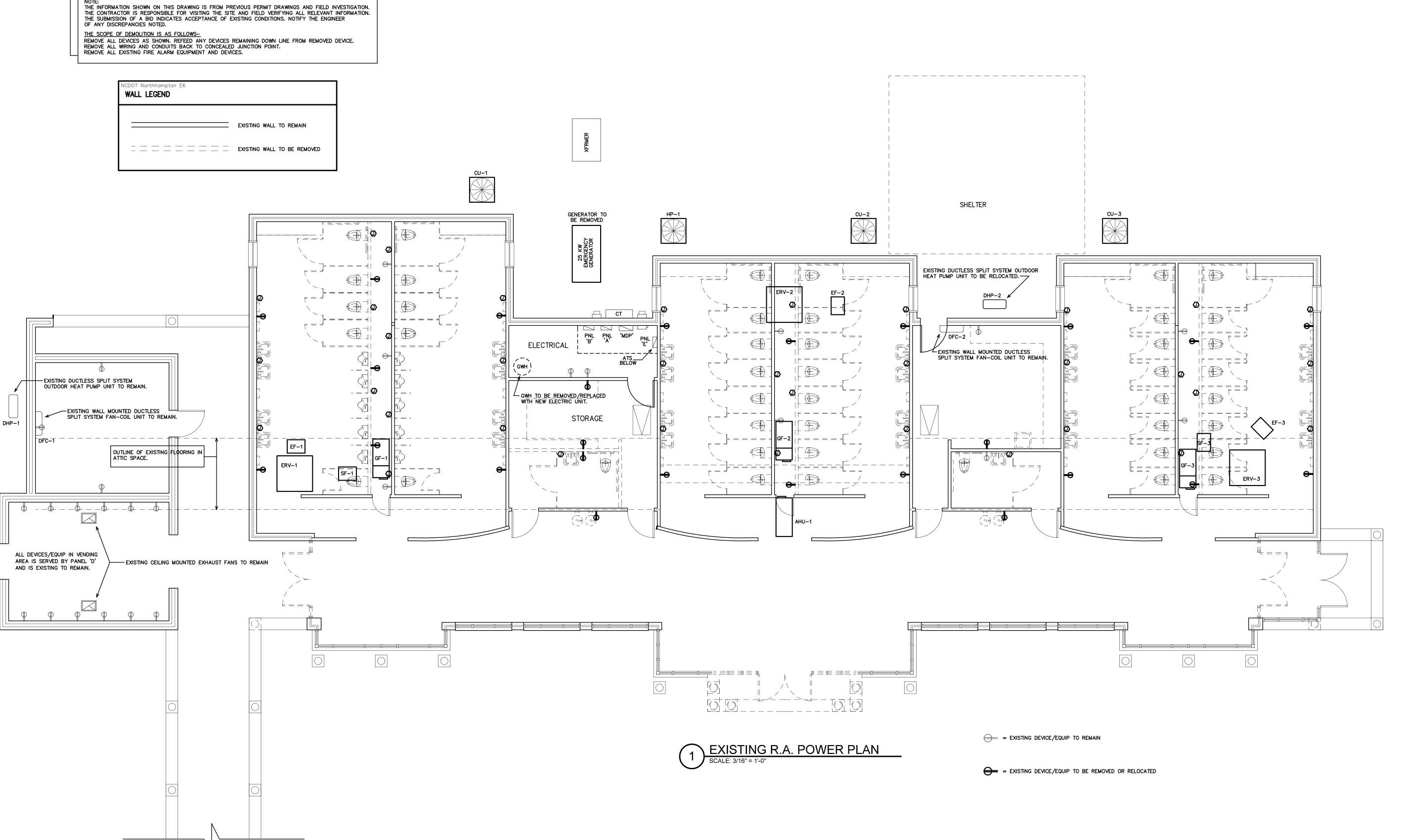
PROJECT NO. 1704a

DRAWING TITLE REVISED WELCOME CENTER ELECTRICAL PLAN

PLOT DATE

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WBS: 15RE.10.3 SCO ID# 18-19070-01A

PROJECT TITLE NORTHAMPTON CTY. REST AREA - RENOV. I-95 NEAR VA STATE LINE PLEASEANT HILL, NORTH CAROLINA

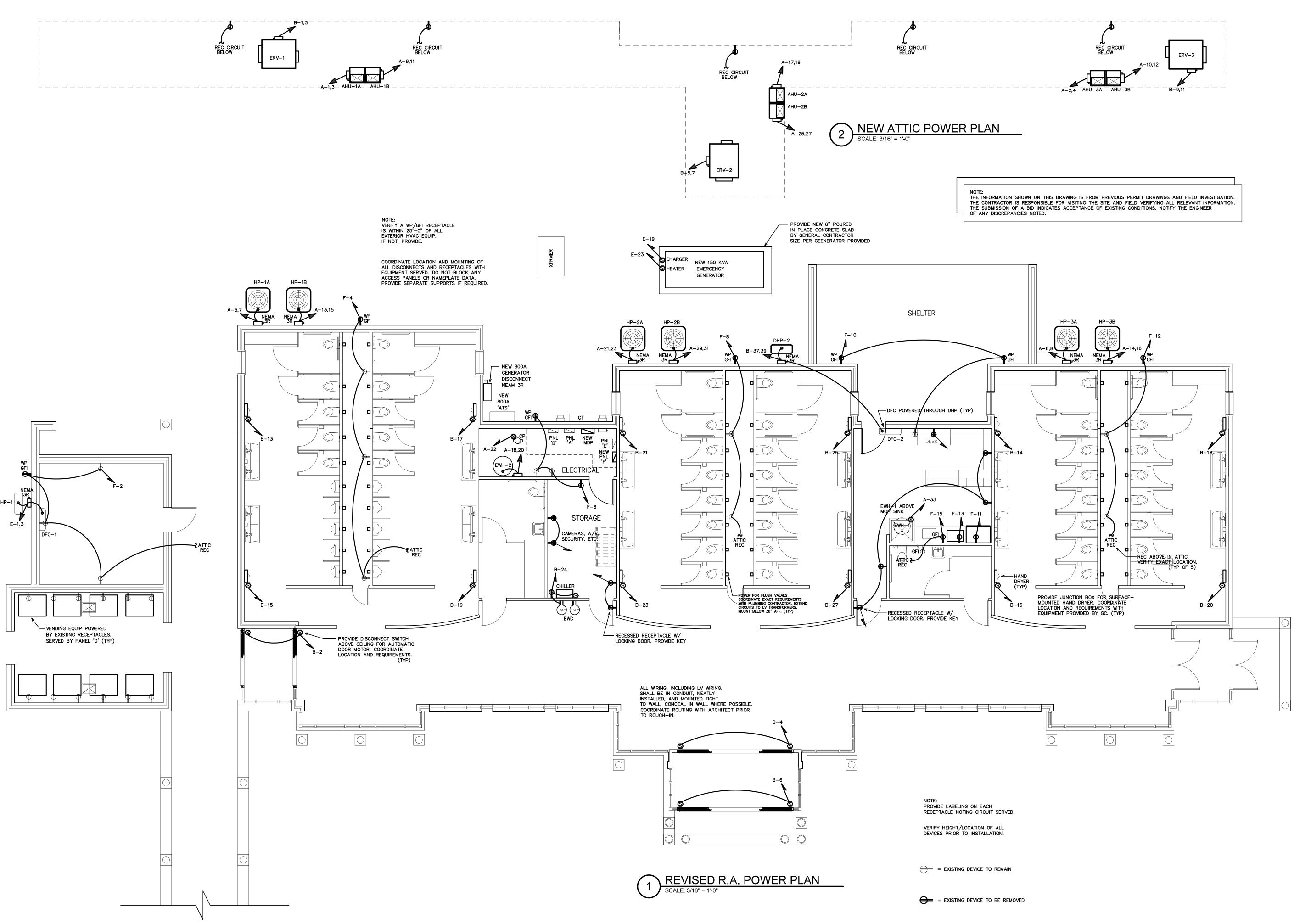
PROJECT NO. 1704a

DRAWING TITLE **EXISTING REST AREA** POWER PLAN

PLOT DATE

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PROJECT TITLE NORTHAMPTON CTY. REST AREA- RENOV. I-95 NEAR VA STATE LINE PLEASEANT HILL, NORTH CAROLINA

PROJECT NO. 1704a

DRAWING TITLE REVISED REST AREA POWER PLAN

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NCDOT Northhampton E8 (Panels)	MAKE: _	CF	Ιp	A TINIC+ 1	<u>120/240</u> 1	DLIVC	3 WIDE	LMI O MAI	IN CIDO	UIT BREAKE	'D
EXISTING PANEL— 'E'		LOAD CENT			G: <u>SURFACE</u>	FINASI	<u>J</u> WINE				.r 
					AIC: <u>VERIF</u>	Υ				ATED	
LOAD	CKT	WATTS PE	R PHASE	CKT	NEUTRAL	CKT	WATTS I	PER PHASE	CKT		LOAD
SERVICE	BRKR	A	В	NO	A B	NO	A	В	BRKR		SERVICE
DHP	20A			1		2			30A	LTS: AREA	& SITE
	ZUA			3		4			JUA		
REC: MECH ROOM	20A			5		6			20A	LTS: HD &	STORAGE
PLUMBING FIXTURE CONTROLS	20A			7		8			20A	LTS: PORC	H & WALKWAY
LTS: PORCH & WALKWAY	20A			9		10			20A	LTS: WOME	N
PLUMBING FIXTURE CONTROLS	20A			11		12			20A	LTS: MEN	
REC: OFFICE	20A			13		14			20A	LTS: MEN	
LTS: E. LOBBY INCAND.	20A			15		16			20A	LTS: W. LO	BBY INCAND.
LTS: PHONE SHELTER	20A			17		18			20A	LTS: PORC	H & WALKWAY
LTS: GEN LOBBY INCAND.	20A			19		20			20A	FIRE ALARI	A PANEL
LTS: PORCH & WALKWAY	20A			21		22			20A	LTS: WOME	N
GENERATOR HEATER	15A			23		24			20A	REC: COMP	PUTER
NOTES SUB-T	OTALS 'B'			$\bowtie$	_100A_	BUS			SUB-	TOTALS 'A'	
					_100A_	LUGS			SUB-	TOTALS 'B'	TOTAL CONNECTED LOAD
					_100A_	FEED			GRANI	TOTAL	I IVIAL CONNECTED LUA
					<u>VERIFY</u>	SIZE	А	A	AMPS	/PHASE	

NCDOT Northhampton E8 (Panels)	MAKE: C	`[	Ιn	A TINICA	120/240	DUACE	- 3 WIDE	L MI O MAI	M OIDO	UIT BREAKE	.D	
IREMSED PANEL- 'E'		OAD CENT			<u> </u>		<u>J</u> WIKE			UIT BREAKE	_	
	I I IPE: 1	OAD CENT						I				
	<u> </u>			INIMUM	AIC: VERIE	Υ			NIKY KA	ATED	YES [	NO
LOAD	CKT	WATTS P	ER PHASE	CKT	NEUTRAL	CKT	WATTS	PER PHASE	CKT		LOAD	
SERVICE	BRKR	Α	В	NO	A B	NO	Α	В	BRKR		SERVICE	
DHP-1	20A	2040		1		2	2000		30A	LTS: AREA	& SITE	
	ZUA		2040	3		4		2000	JUA			
REC: MECH ROOM	20A	180		5		6			20A	SPARE		
SPARE	20A			7		8		1920	20A	LTS: PORCI	H & WALKWA	·Υ
SPARE	20A			9		10			20A	SPARE		
SPARE	20A			11		12			20A	SPARE		
SPARE	20A			13		14			20A	SPARE		
SPARE	20A			15		16			20A	SPARE		
LTS: PHONE SHELTER	20A	200		17		18			20A	SPARE		
GENERATOR BATTERY CHARGER	20A		100	19		20			20A	SPARE		
LTS: PORCH & WALKWAY	20A	1920	100	21		22			20A	SPARE		
GENERATOR HEATER	15A	1920		23		24		180	20A	REC: COMP	DUTED	
NOTES SUB-TO					· ·	BUS				TOTALS 'A'	I	
NO 152	IALS B	4340	2140	XXXX	_100A		2000	4100				
EXISTING/UNCHANGED CIRCUIT					_100A_	LUGS	4340	2140		TOTALS 'B'	TOTAL CON	NECTED LOAD
NEW/REVISED CIRCUIT					_100A_	FEED	6340	6240		D TOTAL		
					<u>VERIFY</u>	SIZE	53A	52A	AMPS	/PHASE		
NEC ALLOWABLE DEMAND	FACTO	RS	DIVERS	IFIED	LOAD SUM	MARY						
① DEMAND FACTORS PER NEC	220		LOAD	TYP	-	EMAND ACTOR①	Α	В	TOTAL	. DIVERSIFIE	D LOAD	
2 LARGEST OF: NEC TABLE 22	0.12 OR		GENERAL L	IGHTING	I .	125%	5150	2500		7650		
CONNECTED LOAD		ļ	SITE LIGHT			125%	2500	2500		5000		
③ NEC TABLE 220.56			GENERAL U RECEPTACI		<u> </u>	0KVA@100%	180	180		360		
④ NEC 220.51			MOTORS A			0KVA <b>©</b> 50%	2550	2550		5100		
(5) NEC 220.43A, 200 VA/LINEA	R FT		EQUIPMENT	. ⊢=		100%						
6 NON-COINCIDENT LOADS, LAI	RGEST	İ	WATER HE	ATERS		125%						
OF THE TWO LOADS IS COUN		Ţ	KITCHEN E		. •	100%						
			FIX. ELEC. SHOW WINE			100% 125%		<del> </del>	ļ			
		ŀ	SHOW WIND	JOW LIG		125%		<del> </del>				
		ŀ	MISC			100%		<del> </del>	<del> </del>			
		İ				TAL VA)	10380	7730		18110		
		•				TOTAL AMPS	87A	64A		LT AMPS ; VOLTS	<b>=</b> 75A	TOTAL AMPS

NEW PANEL— F MAKE: GE  TYPF: A SERIES			F	RATING:_	120/240	1	PHASE	<u>3</u> WRE	MLO_MA	IN CIRC	UIT BREAKE	:R		
NEW PANEL-	F	TYPE: 4	SERIES		MOUNTING	G: SURF	ACE			EQUIPMENT	GROUN	ND BUS	<u></u>	□N0
		OR AP	PROVED E	QUAL N	MUMININ	AIC: <u>V</u> E	RIF	Υ		SERVICE EN	NTRY R	ATED	UYES	□N0
LOAD		СКТ	WATTS P	ER PHASE	СКТ	NEUTF	RAL	CKT	WATTS F	PER PHASE	CKT		LOAD	
SERVICE		BRKR	Α	В	NO	Α	В	NO	Α	В	BRKR		SERVICE	•
LTS		20A	934		1	$\overline{}$		2	900		20A	REC		
LTS		20A		1360	3		$\overline{}$	4		900	20A	REC		
LTS		20A	962		5			6	720		20A	REC		
LTS		20A		818	7			8		720	20A	REC		
LTS		20A	1300		9			10	540		20A	REC		
REC - REF		20A		1500	11			12		720	20A	REC		
REC - MICRO		20A	1000		13			14			20A	SPARE		
REC - GFI		20A		540	15			16			20A	SPARE		
SPARE		20A			17			18			20A	SPARE		
SPACE					19			20				SPACE		
SPACE					21			22				SPACE		
SPACE					23			24				SPACE		
SPACE					25		$\overline{}$	26				SPACE		
SPACE					27			28				SPACE		
SPACE					29			30				SPACE		
NOTES	SUB-TOT	ALS 'B'	4196	4218		100/		BUS	2160	2340	SUB-	TOTALS 'A'		
			1,00	, ,2,0		_100/		LUGS	4196	4218		TOTALS 'B'		
						_100/	_	FEED	6356	6558		D TOTAL	IOIAL C	ONNECTED LOAD
						VERIF		SIZE	53A	55A	AMPS	/PHASE		
NEC ALLOWABLE	E DEMAND	FACTO	RS	DIVERS	SIFIED	LOAD S	_					/······		
(1) DEMAND FACTO					D TYPI		DI	EMAND	۸	Тв	TOTAL	_ DIVERSIFIE	D LOAD	
(2) LARGEST OF: N				GENERAL				ACTOR① 25%	A 3995	B 2723	IOIAL	6718	D LOAD	
CONNECTED LOA				TRACK LIC		, (		25%						
3 NEC TABLE 220	0.56			GENERAL	USE		<u> </u>	KVA <b>@</b> 100%	2160	2880		5040		
(4) NEC 220.51				MOTORS /				25%		<del> </del>				
⑤ NEC 220.43A, 2	200 VA/LINEAF	R FT		EQUIPMEN		argest LL others		00%						
6 NON-COINCIDEN	IT LOADS, LAR	GEST		WATER HE		LE OTTLETO		25%						
OF THE TWO LO				KITCHEN				00%	1000	1500		2500		
				FIX. ELEC			_	00%						
				SHOW WIN	NDOW LIG	H15 (		25% 25%		<del> </del>				
ı				MISC				00%		<del> </del>	-			
						PHASE		AL VA)	7155	7103		14258		
			•				•	TOTAL AMPS	60A	59A		LT AMPS VOLTS	<b>5</b> 9A	TOTAL AMPS

EXISTING PANEL— 'A'	MAKE: _	GE A SERIES			20/240 1	PHASE	<u>3</u> WRE				
	ITPE: _	A SERIES			G: <u>SURFACE</u> AIC: <u>VERIF</u>	Y				id bus ated	
LOAD	CKT	WATTS PI	R PHASE	CKT	NEUTRAL	CKT	WATTS	PER PHASE	CKT		LOAD
SERVICE	BRKR	A	В	NO	A B	NO	A	В	BRKR		SERVICE
LTS: WOMEN	20A			1	$\cap$	2			20A	LTS: PORC	H & WALKWAY
LTS: WOMEN	20A			3	$\cap$	4			20A	LTS: PORC	H & WALKWAY
LTS: WOMEN	20A			5	$\cap$	6			20A	LTS: PORC	H & WALKWAY
LTS: WOMEN	20A			7	$\cap$	8			20A	LTS: PORC	H & WALKWAY
LTS: MEN	20A			9	$\cap$	10			20A	ELECT DOO	R OPENER
LTS: MEN	20A			11		12			20A	LTS: PHON	E SHELTER
LTS: STORAGE	20A			13		14			20A	REC: WOME	N
LTS: MECH ROOM	20A			15	$\cap$	16			20A	REC: WOME	N
LTS: W. LOBBY INCAND.	20A			17		18			20A	REC: MEN	
LTS: CEN. OBBY INCAND.	20A			19		20			20A	REC: MECH	ROOM
LTS: E. LOBBY INCAND.	20A			21		22			20A	REC: STOR	AGE ROOM
LTS: W. LOBBY INCAND.	20A			23		24			20A	LTS: AREA	& SITE
LTS: CEN. LOBBY STRIP	20A			25	$\cap$	26			30A	LTS: AREA	& SITE
LTS: CEN. LOBBY STRIP	20A			27		28			JUA	•	
LTS: E. LOBBY STRIP	20A			29		30			30A	LTS: AREA	& SITE
LTS: ATTIC	20A			31	$\cap$	32			JUA	•	
SPARE	20A			33		34			30A	LTS: AREA	& SITE
PLUMBING FIXTURES CONTROL	20A			35		36			JUA		
PLUMBING FIXTURES CONTROL	20A			37		38			30A	LTS: AREA	& SITE
PLUMBING FIXTURES CONTROL	20A			39		40			JUA	•	
SPARE	20A			41		42			20A	SPARE	
NOTES SUB-	TOTALS 'B'			$\bowtie$	_400A_	BUS			SUB-	TOTALS 'A'	
					400A	LUGS			SUB-	TOTALS 'B'	TOTAL CONNECTED LOA
					400A	FEED			GRANI	) TOTAL	I IOIAL COMMECIED LO
					VERIFY	SIZE	A	A	AMPS	/PHASE	

NODOT W. W		<u></u>			100 /046		5						
REVISED PANEL— 'A'	MAKE: _						PHASE	<u>3</u> WRE			UIT BREAKE	_	
THE VIOLE I WILL IN		A SERIES			S: SURF						ID BUS		
				_	AIC: <u>∨e</u>		1		SERVICE EN		4 IEU		□N0
LOAD	CKT		ER PHASE	CKT	NEUTF	_	CKT		PER PHASE	CKT		LOAD	
SERVICE	BRKR	A	В	NO NO	A	B	NO	A	B	BRKR		SERVICE	-
AHU-1A	35A	2892		<u> </u>		+	2	2892		35A	AHU-3A		
•			2892	3			4		2892		•		
HP-1A	40A	2676		5		上	6	2676		40A	HP-3A		
•			2676	7			8		2676		•		
AHU-1B	35A	2892		9		1	10	2892		35A	AHU-3B		
•	1		2892	11			12		2892		•		
HP-1B	40A	2676		13			14	2676		40A	HP-3B		
•			2676	15			16		2676		•		
AHU-2A	35A	2892		17		10	18	2250		30A	EWH-2		
•	-		2892	19		,	20		2250	221	•		
HP-2A	40A	2676		21			22	200		20A	CIRC PUMP		
•			2676	23		,	24		1000	20A	LTS: AREA		
AHU-2B	35A	2892				+( )	26	1000		30A	LTS: AREA	& SITE	
•	-		2892	27			28		1000				
HP-2B	40A	2676		29		+( )	30	1000		30A	LTS: AREA	& SITE	
•	<b> </b>		2676	31			32		1000				
EWH-1	20A	1650		33		+	34	1000		30A	LTS: AREA	& SITE	
PLUMBING FIXTURES CONTROL	20A		600	35			36 38		1000				
PLUMBING FIXTURES CONTROL	20A	600		37		+		1000		30A	LTS: AREA	& SITE	
PLUMBING FIXTURES CONTROL	20A		600	39			40		1000				
SPARE	20A			41 ****	/ \_	Т ,	42			20A	SPARE		
NOTES SUB-TOT	ALS B	24522	23472	$\bowtie$	400		BUS	17586	18386		TOTALS 'A'		
EXISTING/UNCHANGED CIRCUIT					_400	_	LUGS	24522	23472		TOTALS 'B'	TOTAL C	ONNECTED LOAD
NEW/REVISED CIRCUIT					_400		FEED	42108	41858		O TOTAL		
					<u>VERIF</u>	<u>-Y</u>	SIZE	351A	349A	AMPS	/PHASE		
NEC ALLOWABLE DEMAND	FACTO	RS	DIVERS	SIFIED	LOAD S	SUMI	MARY						
(1) DEMAND FACTORS PER NEC 2	220		LOAI	D TYPE	<u> </u>		MAND	Α	В	TOTAL	. DIVERSIFIE	D I OAD	
2) LARGEST OF: NEC TABLE 220			GENERAL				ACTOR① 25%	5000	6250	TOTAL	11250	D LOAD	
CONNECTED LOAD			TRACK LIC	SHTING	`	1	25%						
③ NEC TABLE 220.56			GENERAL RECEPTAC			<u> </u>	KVA@100% KVA@50%		<u> </u>				
(4) NEC 220.51			MOTORS A		RGEST	1	25%	3165	3165		6330 61464 7689		
(5) NEC 220.43A, 200 VA/LINEAR		-	EQUIPMEN WATER HE		L OTHERS		00% 25%	30732 4876	30732 2813				
(6) NON-COINCIDENT LOADS, LAR OF THE TWO LOADS IS COUN		ł	KITCHEN E		NT (		00%		2813				
2 1.10 23/123 13 30011			FIX. ELEC.		HEAT. (	4 1	00%						
			SHOW WIN	DOW LIG	піо (		25 <b>%</b> 25 <b>%</b>						
			MISC		B114 0F	1	00%	800	1200		2000		
		l			PHASE		AL VA) TOTAL	44573	44160	Vn	88733 L <b>T_AMPS</b>		TOTAL
							AMPS	371A	368A		VOLTS	<b>3</b> 70A	AMPS

EXISTING PANEL—'MD	P' MAKE: _ TYPE: _	GE SPECTRA S	SERIES MO	OUNTING	120/2401 G:_SURFACE AIC:_VERIF		3 WRE	600AMAI EQUIPMENT SERVICE EN	GROUN	ID BUS	`⊠YES □NO
LOAD SERVICE	CKT BRKR	WATTS PE	ER PHASE B	CKT NO	NEUTRAL A B	CKT NO	WATTS F	PER PHASE B	CKT BRKR		LOAD SERVICE
SPACE				1		2				SPACE	
SPACE				3		4				SPACE	
UTILITY STORAGE	50A			5		6			100A	VENDING P	ANEL D
	JUA			7		8			IUUA		
PANEL B	225A			9		10			100A	PANEL E	
	ZZJA			11		12			1004	VIA ATS	
PANEL A	400A			13		14				SPACE	
	400A			15		16					
NOTES SUB	-TOTALS 'B'			$\bowtie$	_600A_	BUS			SUB-	TOTALS 'A'	
					_600A_	LUGS			SUB-	TOTALS 'B'	TOTAL CONNECTED LOAD
					_600A_	FEED			GRANI	TOTAL .	INIAL COMMECIED LOAD
					<u>VERIFY</u>	SIZE	A	A	AMPS	/PHASE	

EXISTING PANEL— '[	MAKE: _C	GE A SERIES	I N	OUITINO	20/240 1 S: SURFACE		<u>3</u> WRE	EQUIPMENT	GROUN	UIT BREAKER ND BUS XYESNO
			١	MUMININ	AIC: <u>VERIF</u>	Υ		SERVICE EN	ITRY R	ated□yes ⊠no
LOAD	CKT	WATTS PE	R PHASE	CKT	NEUTRAL	CKT	WATTS F	PER PHASE	CKT	LOAD
SERVICE	BRKR	Α	В	NO	A B	NO	Α	В	BRKR	SERVICE
AHU 1	30A			1	$ \sim                                   $	2			30A	AHU 2
AHU 1	20A			3		4			20A	AHU 2
HP 1	604			5		6			60A	HP 2
•	60A			7		8			DUA	
AHU 3	30A			9		10			30A	AHU 4
AHU 3	20A			11		12			JUA	
HP 3	604			13		14			60A	HP 4
	60A			15		16			DUA	
HAND DRYER, WOMENS	20A			17		18			20A	HAND DRYER, MENS
HAND DRYER, WOMENS	20A			19	$\cap$	20			20A	HAND DRYER, MENS
HAND DRYER, WOMENS	20A			21		22			20A	EWC
HAND DRYER, WOMENS	20A			23		24			20A	EWC
HEAT EXCHG. 1 SUPPLY	20A			25	$\bigcap$	26			20A	HEAT EXCHG. 2 SUPPLY FAN
HEAT EXCHG. 1 EXHAUST	20A			27		28			20A	HEAT EXCHG. 2 EXHAUST FAN
ATTIC VENT FAN	20A			29	$\bigcap$	30			20A	HEAT EXCHG. 3 SUPPLY FAN
EMERGENCY EXIT LIGHTS	20A			31	$\overline{}$	32			20A	HEAT EXCHG. 3 EXHAUST FAN
FIRE ALARM PANEL	20A			33		34			CO.4	IRRIGATION PUMP STARTER
SOUND SYSTEM	20A			35	$\cap$	36			60A	
DHP	204			37		38			20A	IRRIGATION CONTROL PANEL
•	20A			39		40			20A	LTS: EMERGENCY, JANITOR MECH.
PANEL 'B'	20A			41		42			20A	SPARE
NOTES SU	B-TOTALS 'B'				225A	BUS			SUB-	TOTALS 'A'
						LUGS				TOTALS 'D'
						FEED				D TOTAL CONNECTED LO
						SIZE	A	A		/PHASE

REVISED PANEL-	* 'B'   MAKE: _ TYPE: _	GE A SERIES			1 <u>20/240</u> 1 G: <u>SURFACE</u>		<u>3</u> WRE	EQUIPMENT	GROUN	UIT BREAKE	⊠YES □NO
			١	MUMININ	AIC: <u>VERIF</u>	Υ		SERVICE EN	ITRY R	ated	□YES □NO
LOAD	CKT	WATTS P	R PHASE	CKT	NEUTRAL	CKT	WATTS F	PER PHASE	CKT		LOAD
SERVICE	BRKR	Α	В	NO	A B	NO	Α	В	BRKR		SERVICE
ERV-1	25A	2220		1	$\cap$	2	1500		20A	AUTO DOOF	₹
•	20/1		2220	3		4		1500	20A	AUTO DOOF	₹
ERV-2	25A	2220		5		6	1500		20A	AUTO DOOF	₹
•	20/1		2220	7		8			20A	SPARE	
ERV-3	25A	2220		9		10			20A	SPARE	
•	20/1		2220	11		12			20A	SPARE	
HAND DRYER	20A	1200		13		14	1200		20A	HAND DRYE	R
HAND DRYER	20A		1200	15		16		1200	20A	HAND DRYE	R
HAND DRYER	20A	1200		17		18	1200		20A	HAND DRYE	R
HAND DRYER	20A		1200	19		20		1200	20A	HAND DRYE	R
HAND DRYER	20A	1200		21		22			20A	SPARE	
HAND DRYER	20A		1200	23		24		1320	20A	EWC/CHILLE	ER .
HAND DRYER	20A	1200		25		26			20A	SPARE	
HAND DRYER	20A		1200	27		28			20A	SPARE	
ATTIC VENT FAN	20A	400		29		30			20A	SPARE	
SPARE	20A			31		32			20A	SPARE	
SPARE	20A			33		34	5000		60A	IRRIGATION	PUMP STARTER
SOUND SYSTEM	20A		600	35		36		5000	OUA		
DHP-2	20A	1920		37		38	600		20A	IRRIGATION	CONTROL PANEL
	ZUA		1920	39		40			20A	SPARE	
PANEL 'B'	20A			41		42			20A	SPARE	
NOTES	SUB-TOTALS 'B'	13780	13980	$\times\!\!\times\!\!\times$	225A	BUS	11000	10220	SUB-	TOTALS 'A'	
EXISTING/UNCHANGED	CIRCUIT				225A	LUGS	13780	13980	SUB-	TOTALS 'B'	   Total connected lo
NEW/REVISED CIRCUIT		_ LOCKING	DDEAKED		225A	FEED	24780	24200	GRANI	D TOTAL	I IOTAL CONNECTED L
NEW/REVISED GIRCOIT		_ LOCKING	DINLANLIN		VERIFY	SIZE	207A	202A	AMPS	/PHASE	
		DC	DIVERS	IFIFD I	LOAD SUM	MARY					
NEC ALLOWABLE	DEMAND FACTO	<b>K</b> S	D. 12.10	יוויי	LOAD SOM	*** ** * *					
NEC ALLOWABLE  1 DEMAND FACTORS		75		O TYPE	- D	EMAND	A	В	TOTAL	DIVERSIFIE	D LOAD
① DEMAND FACTORS ② LARGEST OF: NEG	S PER NEC 220 C TABLE 220.12 OR	7.5		) TYPE	_ D F		A	В	TOTAL	_ DIVERSIFIE	D LOAD
DEMAND FACTORS     LARGEST OF: NEG	S PER NEC 220 C TABLE 220.12 OR	<b>x5</b>	LOAI GENERAL TRACK LIG	D TYPE	D F	EMAND ACTOR① 25% 25%			TOTAL		D LOAD
DEMAND FACTORS     LARGEST OF: NECCONNECTED LOAD     NEC TABLE 220.5	S PER NEC 220 C TABLE 220.12 OR	73	GENERAL TRACK LIG	D TYPE LIGHTING CHTING USE	D F	EMAND ACTOR ① 25% 25% KVA@100%	 		TOTAL	 	D LOAD
1 DEMAND FACTORS 2 LARGEST OF: NEC CONNECTED LOAD 3 NEC TABLE 220.5 4 NEC 220.51	S PER NEC 220 C TABLE 220.12 OR O	75	LOAI GENERAL TRACK LIG	D TYPE	D F ② 1 ≤10	EMAND ACTOR① 25% 25%			TOTAL		D LOAD
1 DEMAND FACTORS 2 LARGEST OF: NEC CONNECTED LOAD 3 NEC TABLE 220.5 4 NEC 220.51 5 NEC 220.43A, 20	S PER NEC 220 C TABLE 220.12 OR D 566 O VA/LINEAR FT	<b>75</b>	GENERAL TRACK LIG GENERAL RECEPTAC MOTORS A EQUIPMEN	LIGHTING SHTING USE LES AND LA T AL	D F F 2 11 2-10 2-10 2-10 2-10 2-10 2-10 2-10 2-	EMAND ACTOR ① 25% 25% KVA@100% KVA@50% 25% 00%	   2775 6360	   2775 6360	TOTAL	   5550 12720	D LOAD
1 DEMAND FACTORS 2 LARGEST OF: NEC CONNECTED LOAD 3 NEC TABLE 220.5 4 NEC 220.51 5 NEC 220.43A, 20 6 NON-COINCIDENT	S PER NEC 220 C TABLE 220.12 OR D 56 O VA/LINEAR FT LOADS, LARGEST	75	GENERAL TRACK LIG GENERAL RECEPTAC MOTORS A EQUIPMEN' WATER HE	LIGHTING CHTING USE LLES AND LA T AL CATERS	D F  ② 1  ≤10  RGEST 1  L OTHERS 1	EMAND ACTOR ① 25% 25% kva@100% kva@50% 25% 00% 25%	   2775	   2775	TOTAL	   5550	D LOAD
1 DEMAND FACTORS 2 LARGEST OF: NEC CONNECTED LOAD 3 NEC TABLE 220.5 4 NEC 220.51 5 NEC 220.43A, 20	S PER NEC 220 C TABLE 220.12 OR D 56 O VA/LINEAR FT LOADS, LARGEST	75	GENERAL TRACK LIG GENERAL RECEPTAC MOTORS A EQUIPMEN WATER HE KITCHEN E FIX. ELEC.	LIGHTING CHTING USE LES AND LA T AL CATERS EQUIPMEN SPACE	D F  ② 1  ≤10  RGEST 1  L OTHERS 1  HEAT. ④ 1	EMAND ACTOR(1) 25% 25% KVA@100% KVA@50% 25% 00% 25% 00% 00%	  2775 6360	   2775 6360	TOTAL	  5550 12720	D LOAD
1 DEMAND FACTORS 2 LARGEST OF: NEC CONNECTED LOAD 3 NEC TABLE 220.5 4 NEC 220.51 5 NEC 220.43A, 20 6 NON-COINCIDENT	S PER NEC 220 C TABLE 220.12 OR D 56 O VA/LINEAR FT LOADS, LARGEST	75	LOAI GENERAL TRACK LIG GENERAL RECEPTAC MOTORS A EQUIPMEN WATER HE KITCHEN E FIX. ELEC. SHOW WIN	LIGHTING CHTING USE LES AND LA T AL CATERS EQUIPMEN SPACE	D F  ② 1  ≤10  NGEST 1  L OTHERS 1  HEAT. ④ 1  HTS ⑤ 1	EMAND ACTOR① 25% 25% (VA@100% (VA@50% 25% 00% 25% 00% 00% 25%	  2775 6360 	2775 6360 	TOTAL	  5550 12720  	D LOAD
1 DEMAND FACTORS 2 LARGEST OF: NEC CONNECTED LOAD 3 NEC TABLE 220.5 4 NEC 220.51 5 NEC 220.43A, 20 6 NON-COINCIDENT	S PER NEC 220 C TABLE 220.12 OR D 56 O VA/LINEAR FT LOADS, LARGEST	75	LOAI GENERAL TRACK LIG GENERAL RECEPTAC MOTORS A EQUIPMEN WATER HE KITCHEN E FIX. ELEC. SHOW WIN SIGN	LIGHTING CHTING USE LES AND LA T AL CATERS EQUIPMEN SPACE	D F  ② 1  ≤10  RGEST 1  L OTHERS 1  HT 3 1  HEAT. ④ 1  HTS ⑤ 1	EMAND ACTOR ① 25% 25% KVA@100% KVA@50% 25% 00% 00% 25% 25% 25%	  2775 6360  	2775 6360  	TOTAL	  5550 12720  	D LOAD
1 DEMAND FACTORS 2 LARGEST OF: NEC CONNECTED LOAD 3 NEC TABLE 220.5 4 NEC 220.51 5 NEC 220.43A, 20 6 NON-COINCIDENT	S PER NEC 220 C TABLE 220.12 OR D 56 O VA/LINEAR FT LOADS, LARGEST	75	LOAI GENERAL TRACK LIG GENERAL RECEPTAC MOTORS A EQUIPMEN WATER HE KITCHEN E FIX. ELEC. SHOW WIN	LIGHTING CHTING USE LES AND LA T AL CATERS EQUIPMEN SPACE	D F  ② 11  ≤10  RGEST 1  L OTHERS 1  HEAT. ④ 1  HTS ⑤ 1	EMAND ACTOR① 25% 25% (VA@100% (VA@50% 25% 00% 25% 00% 00% 25%	  2775 6360 	2775 6360 	TOTAL	  5550 12720  	D LOAD

NCDOT Northhampton E8 (Panels) NEW PANEL—MDF	MAKE: _ TYPE: _	<u>GE</u> SWITCHBOA	ARDM	IOUNTING	20/240 1 S: SURFACE AIC: _22,00		3 WRE		GROUN		_`⊠YES □NO
LOAD SERVICE	CKT BRKR	WATTS PE A	R PHASE B	CKT NO	NEUTRAL A B	CKT NO	WATTS I	PER PHASE B	CKT BRKR		LOAD SERVICE
SPARE SPARE	20A 20A			3		2	6356	6558	100A	NEW PANEL	. <b>'F'</b>
UTILITY STORAGE	50A	1800	1800	5 7		6	6000	6000	100A	VENDING P	ANEL D
PANEL B	225A	24780	24200	9		10 12	6340	6140	100A	PANEL E	
PANEL A	400A	42108	41858	13 15		14 16			200A	SPARE .	
NOTES	SUB-TOTALS 'B'	68688	67858		_800A_	BUS	18696	18698	SUB-	TOTALS 'A'	
					_800A_	LUGS FEED SIZE	68688 87384 728A	67858 86556 721A	GRANE	TOTALS 'B'  TOTAL  /PHASE	TOTAL CONNECTED LOAD

WEEKS TURNER ARCHITECTURE, PA 3305-109 Durham Drive Raleigh, North Carolina 27603 919.779.9797 fax: 919.779.0826 www.weeksturner.com

#### **ENGINEER**



Corp. License # C-2652



DocuSigned by:
BUN BUNCL

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9/18/2018 6:43:56 PM EDT

WBS: 15RE.10.3 SCO ID# 18-19070-01A

PROJECT TITLE

NORTHAMPTON CTY.

REST AREA— RENOV.

I-95 NEAR VA STATE LINE
PLEASEANT HILL, NORTH CAROLINA

PROJECT NO. **1704**a

DRAWING TITLE
PANEL SCHEDULES

**E8** 

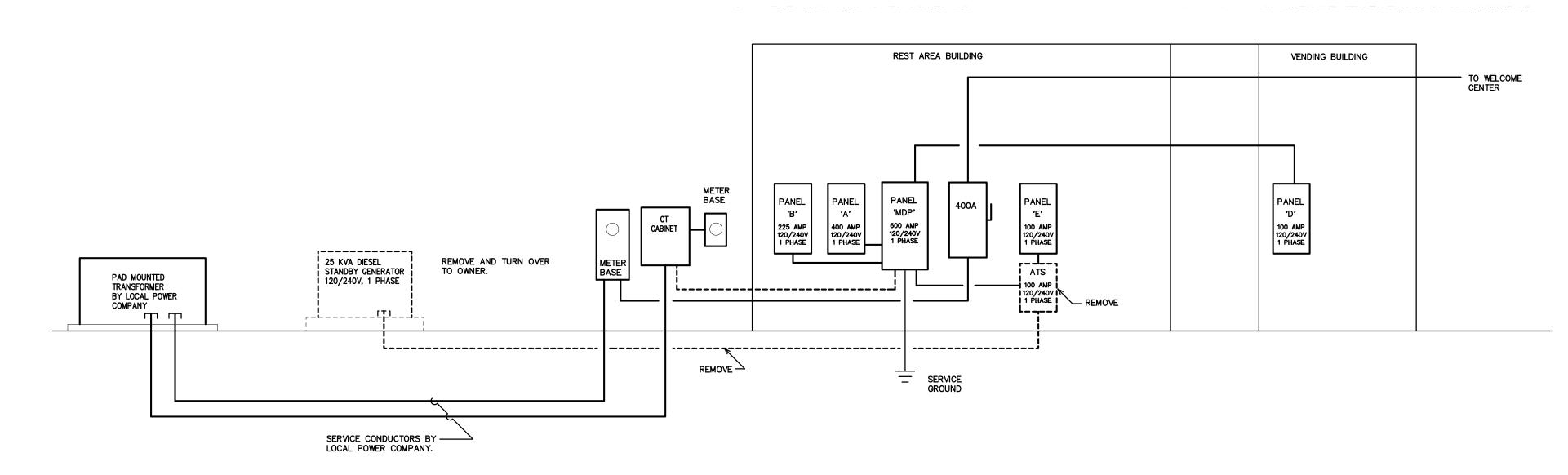
PLOT DATE

9/18/18

NOTE:
THE INFORMATION SHOWN ON THIS DRAWING IS FROM PREVIOUS PERMIT DRAWINGS AND FIELD INVESTIGATION.
THE CONTRACTOR IS RESPONSIBLE FOR VISITING THE SITE AND FIELD VERIFYING ALL RELEVANT INFORMATION.
THE SUBMISSION OF A BID INDICATES ACCEPTANCE OF EXISTING CONDITIONS. NOTIFY THE ENGINEER
OF ANY DISCREPANCIES NOTED.

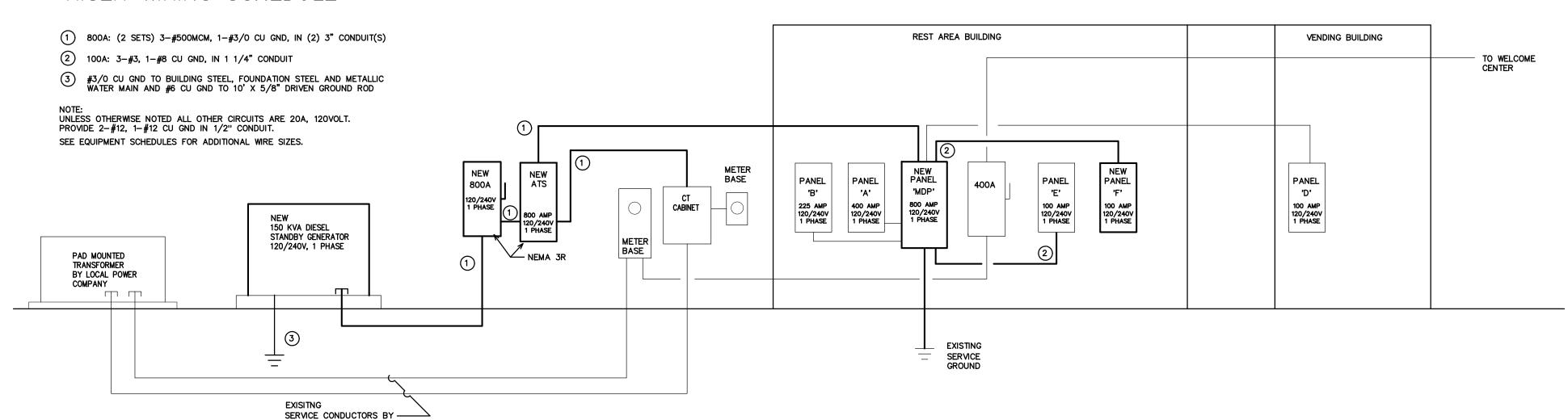
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1 EXISTING SERVICE RISER
SCALE: NOT TO SCALE

#### RISER WIRING SCHEDULE



NCDOT Northhamptor	n E9				
EQUI	PMEN	1T	VIRIN	IG	SCHEDULE
EQUIPMENT	MCA	МОСР	VOLTS	PH	WIRE SIZE
AHU-1A	33.5A	35A	240V	1	2-#8, 1-#10 GND IN 3/4" CONDUIT
HP-1A	27.6A	40A	240V	1	2-#8, 1-#10 GND IN 3/4" CONDUIT
AHU-1B	33.5A	35A	240V	1	2-#8, 1-#10 GND IN 3/4" CONDUIT
HP-1B	27.6A	40A	240V	1	2-#8, 1-#10 GND IN 3/4" CONDUIT
AHU-2A	33.5A	35A	240V	1	2-#8, 1-#10 GND IN 3/4" CONDUIT
HP-2A	27.6A	40A	240V	1	2-#8, 1-#10 GND IN 3/4" CONDUIT
AHU-2B	33.5A	35A	240V	1	2-#8, 1-#10 GND IN 3/4" CONDUIT
HP-2B	27.6A	40A	240V	1	2-#8, 1-#10 GND IN 3/4" CONDUIT
AHU-3A	33.5A	35A	240V	1	2-#8, 1-#10 GND IN 3/4" CONDUIT
HP-3A	27.6A	40A	240V	1	2-#8, 1-#10 GND IN 3/4" CONDUIT
AHU-3B	33.5A	35A	240V	1	2-#8, 1-#10 GND IN 3/4" CONDUIT
HP-3B	27.6A	40A	240V	1	2-#8, 1-#10 GND IN 3/4" CONDUIT
ERV-1	18.5A	25A	240V	1	3-#10, 1-#10 GND IN 3/4" CONDUIT
ERV-2	18.5A	25A	240V	1	3-#10, 1-#10 GND IN 3/4" CONDUIT
ERV-3	18.5A	25A	240V	1	3-#10, 1-#10 GND IN 3/4" CONDUIT
EWH-2	(4.5KW)	30A	240V	1	2-#10, 1-#10 GND IN 3/4" CONDUIT

NOTE:
THE ELECTRICAL CONTRACTOR SHALL VERIFY ALL EQUIPMENT ELECTRICAL REQUIREMENTS
PRIOR TO ROUGH—IN AND RELEASING GEAR. ADJUST BREAKER, WIRE SIZES, ETC. AS REQUIRED.

#### (PROVIDED BY OWNER, INSTALLED BY EC)

#### EMERGENCY GENERATOR SCHEDULE

150 KW DIESEL FUELED EMERGENCY GENERATOR

PROVIDE A "GENERAC" MODEL SD150 STANDBY GENERATOR WITH AUTOMATIC TRANSFER SWITCH. THE GENERATOR SHALL BE CAPABLE OF RUNNING ON DIESEL FUEL WITH A 45 HOUR MIN RUN CAPACITY. PROVIDE ALL ACCESSORIES AS REQUIRED FOR A COMPLETE OPERATING SYSTEM. THE ENGINE SHALL HAVE A MINIMUM OF 240 HP AT 1800 RPM WITH AND ENCLOSED MUFFLER. THE DELIVERY VOLTAGE SHALL BE 120/240 VOLT, 1 PHASE. PROVIDE 10A DUAL RATE BATTERY CHARGER, AUTOMATIC VOLTAGE REGULATOR, AUTOMATIC LOW OIL PRESSURE AND HIGH TEMPERATURE SHUTDOWN. THE AUTOMATIC TRANSFER SWITCH SHALL TRANSFER FROM THE UTILITY AUTOMATICALLY WITH—IN 10 SECONDS. PROVIDE A SERVICE RATED DISCONNECTING MEANS WITH OVERCURRENT PROTECTION AT THE GENERATOR LOCATION. PROPERLY GROUND THE GENERATOR AND SERVICE EQUIPMENT PER THE NEC. PROVIDE INITIAL START UP AND OWNER TRAINING. THE DIESEL FUEL TANK SHALL BE A MINIMUM OF 510 GALLONS. PROVIDE A DIGITAL CONTROL PANEL, UNIT VIBRATION ISOLATION, AND A WEATHER PROTECTIVE ENCLOSURE. PROVIDE A LOAD TEST, START—UP AND OWNER TRAINING BY THE GENERATOR MANUFACTURER'S FACTORY TRAINED REPRESENTATIVE.

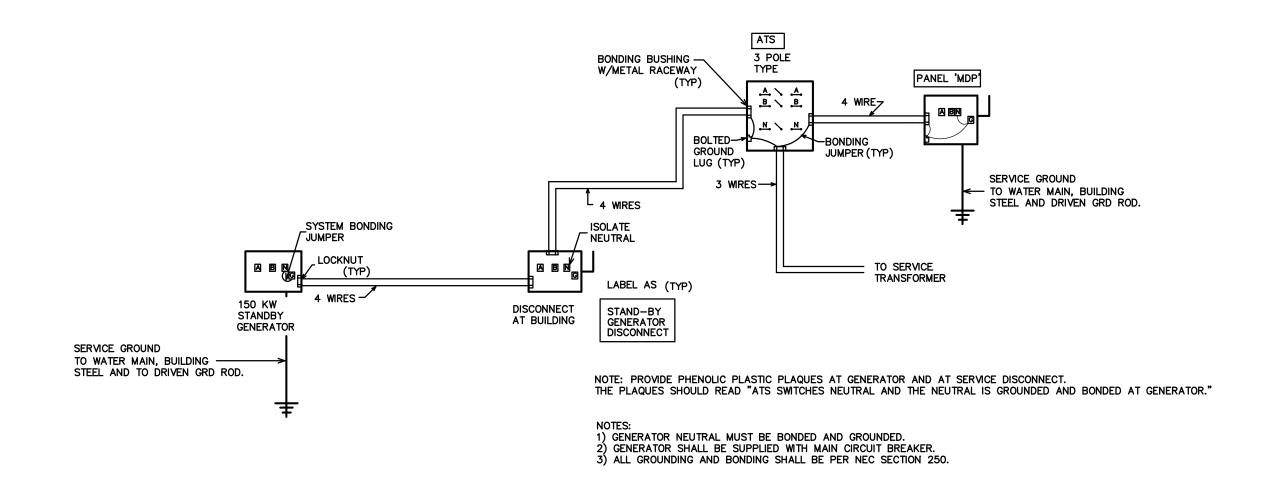
LOCAL POWER COMPANY.

PROVIDE AN ADJUSTABLE 7-DAY/24-HOUR EXERCISE TIMER.
PROVIDE A FULL TANK OF FUEL AT COMPLETION OF ALL REQUIRED TESTS.
INSTALL PER NFPA 110.

#### (PROVIDED BY OWNER, INSTALLED BY EC)

# (ATS) AUTOMATIC TRANSFER SWITCH SCHEDULE ATS-1 "STANDBY POWER" ASCO MODEL# 300-J-03ATS-B-800-F-F, AUTOMATIC TRANSFER SWITCH, SWITCHED NEUTRAL 800 AMP, 120/240 VOLT, 1 PHASE WITH NEMA 3R ENCLOSURE. PROVIDE GFI PROTECTION.

# REVISED SERVICE RISER



GENERATOR GROUNDING/BONDING

SCALE: NOT TO SCALE

## WEEKS TURNER ARCHITECTURE

WEEKS TURNER ARCHITECTURE, PA 3305-109 Durham Drive Raleigh, North Carolina 27603 919.779.9797 fax: 919.779.0826 www.weeksturner.com

#### ENGINEER

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919.771.1916 fax: 919.779.0826
email: benburke@nc.rr.com

email: benburke@nc.rr.co Corp. License # C-2652



Ben Buke c93761FB80F34D5... 9/18/2018 6:43:56 PM EDT

WBS: 15RE.10.3 SCO ID# 18-19070-01A

PROJECT TITLE

NORTHAMPTON CTY.

REST AREA— RENOV.

I-95 NEAR VA STATE LINE
PLEASEANT HILL, NORTH CAROLINA

PROJECT NO. **1704**a

DRAWING TITLE SERVICE RISERS

**E9** 

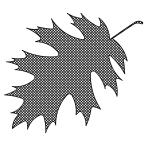
PLOT DATE

9/18/18

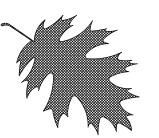
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<sup>\*</sup> OR APPROVED EQUAL



# HIGHWAY LANDSCAPE DEVELOPMENT PROJECT



County Line.

(By Others)

(By Contract)

Property Line.

Easement Line.

Exist. Fence.

Exist. Road

Prop. Road....
Guardrail.....
Survey Line

Bridge... Culvert

Woods.

Slope Stake Line

City or Town Line

Exist. Right of Way Line Marker
Prop. Right of Way Line Marker

Prop Right of Way Line Marker

Exist. Control of Access Line Prop. Control of Access Line

Prop. Woven Wire Fence.
Prop. Chain Link Fence.

Denotes Line Equality

Exist. Telephone Pole

Prop. Telephone Pole.
Tower Pole and Line

Exist. Power Pole Prop. Power Pole Sanitary Sewer Line

Water Line.

Picnic Shelter Regeneration... Reforestation...

L 1.0 - Title Sheet

L 5.0 - Grading Plan L 6.0 - Hardscapes Plan L 7.0 - Dimensioning Plan

L 4.0 - Drainage/ Utilities Plan

L 16.0 - Hardscape Details L 17.0 - Hardscape Details L 18.0 - Hardscape Details

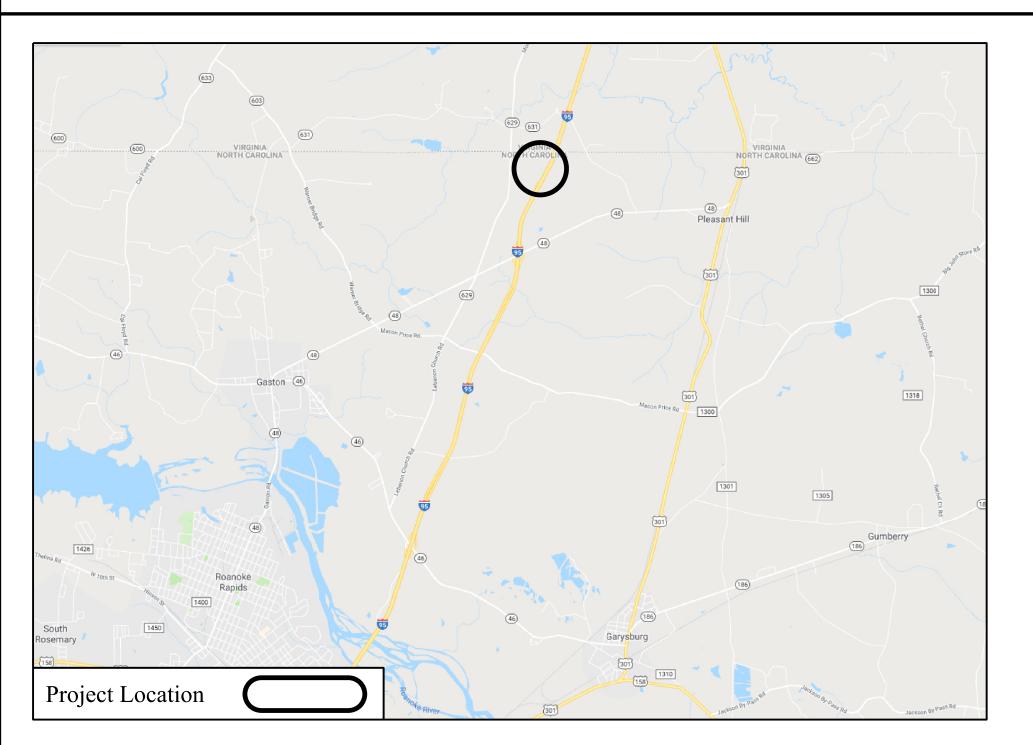
L 20.0 - Planting Details L 21.0 - Irrigation Plan L 22.0 - Irrigation Specs L 23.0 - Irrigation Details

DATE

Gas Line

	Enhancemen	nt	4
FED. PROJ. #	DESCRIPTION		DIVISION
	46305.3.58	L1	23
T.I.P. #	STATE PROJECT W.B.S. #	SHEET #	SHEET # TOTAL

CONVENTIONAL SYMBOLS





Summary of Quantities 1.5 Year (18 Months) Establishment

DES	SEC	QTY	UNIT	KEY	BOTANICAL NAME	COMMON NAME	SIZE	CALIPER	FURNISH	A.S.N.S.	REMARKS
					Trees						
L	1670	1	еа	AC	Acer palmatum 'Sango Kaku'	Coral Bark Japanese Maple	6-7'	1.5-1.75"	B&B	2.3	As Shown
L	1670	2	еа	AS	Acer palmatum 'Seiryu'	Seiryu Japanese Maple	7-8'		B&B	2.3	As Shown
L	1670	11	еа	LS	Lagerstroemia indica 'Sioux'	Sioux Crape Myrtle	6-7'		B&B	2.5	As Shown
L	1670	7	еа	LM	Lagerstroemia indica x fauriei 'Muskogee'	Muskogee Crape Myrtle	10-12"	2-2.5"	B&B	2.3	Standard; 10' O.C.
L	1670	1	еа	MA	Magnolia x soulangiana 'Alexandrina'	Alexander Magnolia	7-8"		B&B	2.4	As Shown
L	1670	21	еа	TS	Thuja occidentalis 'Smaragd'	Emerald Green Arborvitae	6-7'		B&B	4.9	As Shown
						l .					
					Shrubs						
L .											
L	1670	76	еа	BB	Buddleia 'Blue Chip'	Lo & Behold® Blue Chip Butterfly Bush	24-30"		#3 Cont.	3.1	2.5' O.C.
L	1670	28	еа	DE	Dryopteris erythrosora	Autumn Fern	6-12"		#1 Cont	n/a	1.5' O.C.
L	1670 1670	17 12	ea	HA HI	Hydrangea arborescens 'Annabelle' Hydrangea arborescens 'NCHA1'	Annabelle Smooth Hydrangea	18-24" 18-24"		#3 Cont. #3 Cont.	3.3	As Shown As Shown
L	1670	12	ea ea	IR	llex verticillata 'Red Sprite'	Invincibelle® Spirit Smooth Hydrangea Red Sprite Winterberry	18-24"		#3 Cont. #3 Cont.	3.3	3' O.C.
L	1670	107	ea	IB	llex vomitoria 'Condeaux'	Bordeaux® Dwarf Yaupon Holly	24-30"		#5 Cont.	5.6	2.5 O.C.
L	1670	30	ea ea	IL	Itea virginica 'Sprich'	Little Henry® Dwarf Virginia Sweetspire	18-24"		#3 Cont.	3.2	2.5 O.C. 3' O.C.
L	1670	30	ea	RP	Rhodendron 'Conlef'	Encore® Autumn Cheer™ Azalea	18-24"		#3 Cont	5.5	3' O.C.
L	1670	14	ea	RW	Rhodendron 'Conlep'	Encore® Autumn Twist™ Azalea	18-24"		#2 Cont.	5.6	As Shown
	1670	4	ea	RO	Rosmarinus officinalis 'Barbecue'	Barbecue Rosemary	6-12"		#1 Cont.	5.7	As Shown
	1070	-	eu	NO	Nosilialilius Officilialis Balbecae	Barbeede Rosemary	0-12		#1 COIIC.	3.7	A3 3110WII
					Grasses/Groundcovers/Perennials						
L	1670	24	ea	EM	Echinacea purpurea 'Magnus'	Magnus Purple Coneflower	6-12"		#1 Cont.	13.3	1.5' O.C.
L L	1670 1670	24	ea ea	EM EW	Echinacea purpurea 'Magnus' Echinacea purpurea 'PAS702918'	Magnus Purple Coneflower PowWow White® Coneflower	6-12" 6-12"		#1 Cont. #1 Cont.	13.3 13.3	1.5' O.C. 1.5' O.C.
L	1670	31	еа	EW	Echinacea purpurea 'PAS702918'	PowWow White® Coneflower	6-12"		#1 Cont.	13.3	1.5' O.C.
L	1670 1670	31 347	ea ea	EW HM	Echinacea purpurea 'PAS702918' Hemerocallis x 'Pardon Me'	PowWow White® Coneflower Pardon Me Daylily	6-12" 6-12"		#1 Cont. #1 Cont.	13.3 13.2.3	1.5' O.C. 1.75' O.C.
L L L	1670 1670 1670 1670 1670	31 347 303 64 24	ea ea ea	EW HM HD	Echinacea purpurea 'PAS702918' Hemerocallis x 'Pardon Me' Hemerocallis x 'Stella de Oro'	PowWow White® Coneflower Pardon Me Daylily Stella de Oro Dwarf Daylily	6-12" 6-12" 6-12" 6-12" 6-12"		#1 Cont. #1 Cont. #1 Cont.	13.3 13.2.3 13.2.3 13.3 13.3	1.5' O.C. 1.75' O.C. 1.75' O.C. 1.5' O.C. 1.25' O.C.
	1670 1670 1670 1670 1670	31 347 303 64 24 24	ea ea ea	EW HM HD HC HP	Echinacea purpurea 'PAS702918' Hemerocallis x 'Pardon Me' Hemerocallis x 'Stella de Oro' Heuchera 'Caramel'	PowWow White® Coneflower Pardon Me Daylily Stella de Oro Dwarf Daylily Caramel Coral Bells	6-12" 6-12" 6-12" 6-12" 6-12"		#1 Cont. #1 Cont. #1 Cont. #1 Cont.	13.3 13.2.3 13.2.3 13.3 13.3 13.3	1.5' O.C. 1.75' O.C. 1.75' O.C. 1.5' O.C. 1.25' O.C. 1.25' O.C.
	1670 1670 1670 1670 1670 1670	31 347 303 64 24 24 18	ea ea ea ea ea ea	EW HM HD HC HP HS	Echinacea purpurea 'PAS702918' Hemerocallis x 'Pardon Me' Hemerocallis x 'Stella de Oro' Heuchera 'Caramel' Heuchera x 'Peach Crisp' Heuchera x 'Sugar Plum' Hosta x 'Guacamole'	PowWow White® Coneflower Pardon Me Daylily Stella de Oro Dwarf Daylily Caramel Coral Bells Peach Crisp Coral Bells Sugar Plum Coral Bells Guacamole Plantain Lily	6-12" 6-12" 6-12" 6-12" 6-12" 6-12"		#1 Cont. #1 Cont. #1 Cont. #1 Cont. #1 Cont. #1 Cont. #1 Cont. #1 Cont.	13.3 13.2.3 13.2.3 13.3 13.3 13.3 13.2.4	1.5' O.C. 1.75' O.C. 1.75' O.C. 1.5' O.C. 1.25' O.C. 1.25' O.C. As Shown
	1670 1670 1670 1670 1670 1670 1670	31 347 303 64 24 24 18 954	ea ea ea ea ea ea	EW HM HD HC HP HS HG	Echinacea purpurea 'PAS702918' Hemerocallis x 'Pardon Me' Hemerocallis x 'Stella de Oro' Heuchera 'Caramel' Heuchera x 'Peach Crisp' Heuchera x 'Sugar Plum' Hosta x 'Guacamole' Liriope muscari 'Big Blue'	PowWow White® Coneflower Pardon Me Daylily Stella de Oro Dwarf Daylily Caramel Coral Bells Peach Crisp Coral Bells Sugar Plum Coral Bells Guacamole Plantain Lily Big Blue Lilyturf	6-12" 6-12" 6-12" 6-12" 6-12" 6-12" 6-12" 6-12"		#1 Cont. #1 Cont. #1 Cont. #1 Cont. #1 Cont. #1 Cont. #1 Cont. #1 Cont. #1 Font. #1 Cont.	13.3 13.2.3 13.2.3 13.3 13.3 13.3 13.2.4 13.5	1.5' O.C. 1.75' O.C. 1.75' O.C. 1.5' O.C. 1.25' O.C. 1.25' O.C. As Shown 1' O.C.
	1670 1670 1670 1670 1670 1670 1670 1670	31 347 303 64 24 24 18 954	ea ea ea ea ea ea ea	EW HM HD HC HP HS HG LB	Echinacea purpurea 'PAS702918' Hemerocallis x 'Pardon Me' Hemerocallis x 'Stella de Oro' Heuchera 'Caramel' Heuchera x 'Peach Crisp' Heuchera x 'Sugar Plum' Hosta x 'Guacamole' Liriope muscari 'Big Blue' Muhlenbergia capillaris	PowWow White® Coneflower Pardon Me Daylily Stella de Oro Dwarf Daylily Caramel Coral Bells Peach Crisp Coral Bells Sugar Plum Coral Bells Guacamole Plantain Lily Big Blue Lilyturf Pink Muhly Grass	6-12" 6-12" 6-12" 6-12" 6-12" 6-12" 6-12" 6-12" 18-24"		#1 Cont. #1 Cont. #1 Cont. #1 Cont. #1 Cont. #1 Cont. #1 Cont. #1 Cont. #3 Cont.	13.3 13.2.3 13.2.3 13.3 13.3 13.3 13.2.4 13.5 13.4	1.5' O.C. 1.75' O.C. 1.75' O.C. 1.5' O.C. 1.25' O.C. 1.25' O.C. As Shown 1' O.C. 3' O.C.
	1670 1670 1670 1670 1670 1670 1670 1670	31 347 303 64 24 24 18 954 134 374	ea ea ea ea ea ea ea	EW HM HD HC HP HS HG LB MC MCG	Echinacea purpurea 'PAS702918' Hemerocallis x 'Pardon Me' Hemerocallis x 'Stella de Oro' Heuchera 'Caramel' Heuchera x 'Peach Crisp' Heuchera x 'Sugar Plum' Hosta x 'Guacamole' Liriope muscari 'Big Blue' Muhlenbergia capillaris Muhlenbergia capillaris	PowWow White® Coneflower Pardon Me Daylily Stella de Oro Dwarf Daylily Caramel Coral Bells Peach Crisp Coral Bells Sugar Plum Coral Bells Guacamole Plantain Lily Big Blue Lilyturf Pink Muhly Grass Pink Muhly Grass	6-12" 6-12" 6-12" 6-12" 6-12" 6-12" 6-12" 6-12" 6-12" 6-12"		#1 Cont. #1 Cont. #1 Cont. #1 Cont. #1 Cont. #1 Cont. #1 Cont. #1 Cont. #3 Cont. #3 Cont. #3 Fp4	13.3 13.2.3 13.2.3 13.3 13.3 13.3 13.2.4 13.5 13.4	1.5' O.C. 1.75' O.C. 1.75' O.C. 1.5' O.C. 1.25' O.C. 1.25' O.C. As Shown 1' O.C. 3' O.C.
	1670 1670 1670 1670 1670 1670 1670 1670	31 347 303 64 24 28 18 954 134 374 237	ea ea ea ea ea ea ea ea ea ea ea	EW HM HD HC HP HS HG LB MC MCG MWG	Echinacea purpurea 'PAS702918'  Hemerocallis x 'Pardon Me'  Hemerocallis x 'Stella de Oro'  Heuchera 'Caramel'  Heuchera x 'Peach Crisp'  Heuchera x 'Sugar Plum'  Hosta x 'Guacamole'  Liriope muscari 'Big Blue'  Muhlenbergia capillaris  Muhlenbergia capillaris  Muhlenbergia capillaris 'White Cloud'	PowWow White® Coneflower Pardon Me Daylily Stella de Oro Dwarf Daylily Caramel Coral Bells Peach Crisp Coral Bells Sugar Plum Coral Bells Guacamole Plantain Lily Big Blue Lilyturf Pink Muhly Grass Pink Muhly Grass White Muhly Grass	6-12" 6-12" 6-12" 6-12" 6-12" 6-12" 6-12" 6-12" 6-12" 6-12" 6-12" 6-12"		#1 Cont. #1 Cont. #1 Cont. #1 Cont. #1 Cont. #1 Cont. #1 Cont. #1 Cont. #3 Cont. #sp4 #3 Cont. #sp4 #sp4	13.3 13.2.3 13.2.3 13.3 13.3 13.3 13.2.4 13.5 13.4 13.4	1.5' O.C. 1.75' O.C. 1.75' O.C. 1.5' O.C. 1.25' O.C. 1.25' O.C. As Shown 1' O.C. 3' O.C. 3' O.C.
	1670 1670 1670 1670 1670 1670 1670 1670	31 347 303 64 24 28 954 134 374 237	ea ea ea ea ea ea ea ea ea ea ea ea ea	EW HM HD HC HP HS HG LB MC MCG MWG PE	Echinacea purpurea 'PAS702918'  Hemerocallis x 'Pardon Me'  Hemerocallis x 'Stella de Oro'  Heuchera 'Caramel'  Heuchera x 'Peach Crisp'  Heuchera x 'Sugar Plum'  Hosta x 'Guacamole'  Liriope muscari 'Big Blue'  Muhlenbergia capillaris  Muhlenbergia capillaris  Muhlenbergia capillaris 'White Cloud'  Phlox subulata 'Emerald Blue'	PowWow White® Coneflower Pardon Me Daylily Stella de Oro Dwarf Daylily Caramel Coral Bells Peach Crisp Coral Bells Sugar Plum Coral Bells Guacamole Plantain Lily Big Blue Lilyturf Pink Muhly Grass Pink Muhly Grass White Muhly Grass Emerald Blue Creeping Phlox	6-12" 6-12" 6-12" 6-12" 6-12" 6-12" 6-12" 6-12" 6-12" 6-12" 4-6"		#1 Cont. #1 Cont. #1 Cont. #1 Cont. #1 Cont. #1 Cont. #1 Cont. #3 Cont. #3 Cont. #sp4 #3 Fap4 #4 Hap4 #5 Cont.	13.3 13.2.3 13.2.3 13.3 13.3 13.3 13.2.4 13.5 13.4 13.4 13.4	1.5' O.C. 1.75' O.C. 1.75' O.C. 1.5' O.C. 1.25' O.C. 1.25' O.C. As Shown 1' O.C. 3' O.C. 3' O.C. 3' O.C.
	1670 1670 1670 1670 1670 1670 1670 1670	31 347 303 64 24 28 954 134 374 237 136 278	ea ea ea ea ea ea ea ea ea	EW HM HD HC HP HS HG LB MC MCG MWG PE OJ	Echinacea purpurea 'PAS702918'  Hemerocallis x 'Pardon Me'  Hemerocallis x 'Stella de Oro'  Heuchera 'Caramel'  Heuchera x 'Peach Crisp'  Heuchera x 'Sugar Plum'  Hosta x 'Guacamole'  Liriope muscari 'Big Blue'  Muhlenbergia capillaris  Muhlenbergia capillaris  Muhlenbergia capillaris 'White Cloud'  Phlox subulata 'Emerald Blue'  Ophiopogon japonicus 'Nana'	PowWow White® Coneflower Pardon Me Daylily Stella de Oro Dwarf Daylily Caramel Coral Bells Peach Crisp Coral Bells Sugar Plum Coral Bells Guacamole Plantain Lily Big Blue Lilyturf Pink Muhly Grass Pink Muhly Grass White Muhly Grass Emerald Blue Creeping Phlox Dwarf Mondo Grass	6-12" 6-12" 6-12" 6-12" 6-12" 6-12" 6-12" 6-12" 6-12" 6-12" 18-24" 6-12" 4-6" 3-6"		#1 Cont. #1 Cont. #1 Cont. #1 Cont. #1 Cont. #1 Cont. #1 Cont. #3 Cont. #3 Cont. #sp4 #3 Cont. #sp4 #4 #5p4 #5p4 #1 Cont. #sp4	13.3 13.2.3 13.2.3 13.3 13.3 13.3 13.2.4 13.5 13.4 13.4 13.4 13.5 13.5	1.5' O.C. 1.75' O.C. 1.75' O.C. 1.5' O.C. 1.25' O.C. 1.25' O.C. As Shown 1' O.C. 3' O.C. 3' O.C. 3' O.C. 15" O.C.
	1670 1670 1670 1670 1670 1670 1670 1670	31 347 303 64 24 18 954 134 374 237 136 278 50	ea ea ea ea ea ea ea ea ea ea	EW HM HD HC HP HS HG LB MC MCG MWG PE OJ SM	Echinacea purpurea 'PAS702918'  Hemerocallis x 'Pardon Me'  Hemerocallis x 'Stella de Oro'  Heuchera 'Caramel'  Heuchera x 'Peach Crisp'  Heuchera x 'Sugar Plum'  Hosta x 'Guacamole'  Liriope muscari 'Big Blue'  Muhlenbergia capillaris  Muhlenbergia capillaris  Muhlenbergia capillaris 'White Cloud'  Phlox subulata 'Emerald Blue'  Ophiopogon japonicus 'Nana'  Sedum mexicanum 'Lemon Ball'	PowWow White® Coneflower Pardon Me Daylily Stella de Oro Dwarf Daylily Caramel Coral Bells Peach Crisp Coral Bells Sugar Plum Coral Bells Guacamole Plantain Lily Big Blue Lilyturf Pink Muhly Grass Pink Muhly Grass White Muhly Grass Emerald Blue Creeping Phlox Dwarf Mondo Grass Lemon Ball Sedum	6-12" 6-12" 6-12" 6-12" 6-12" 6-12" 6-12" 6-12" 6-12" 6-12" 18-24" 6-12" 4-6" 3-6"		#1 Cont. #1 Cont. #1 Cont. #1 Cont. #1 Cont. #1 Cont. #1 Cont. #3 Cont. #3 Cont. #sp4 #3 Cont. #sp4 #sp4 #1 Cont.	13.3 13.2.3 13.2.3 13.3 13.3 13.3 13.2.4 13.5 13.4 13.4 13.4 13.5 13.5 13.5	1.5' O.C. 1.75' O.C. 1.75' O.C. 1.5' O.C. 1.25' O.C. 1.25' O.C. As Shown 1' O.C. 3' O.C. 3' O.C. 15" O.C.
	1670 1670 1670 1670 1670 1670 1670 1670	31 347 303 64 24 24 18 954 134 374 237 136 278 50 18	ea ea ea ea ea ea ea ea ea	EW HM HD HC HP HS HG LB MC MCG MWG PE OJ SM ST	Echinacea purpurea 'PAS702918' Hemerocallis x 'Pardon Me' Hemerocallis x 'Stella de Oro' Heuchera 'Caramel' Heuchera x 'Peach Crisp' Heuchera x 'Sugar Plum' Hosta x 'Guacamole' Liriope muscari 'Big Blue' Muhlenbergia capillaris Muhlenbergia capillaris 'White Cloud' Phlox subulata 'Emerald Blue' Ophiopogon japonicus 'Nana' Sedum mexicanum 'Lemon Ball' Schizachyrium scoparium 'Twilight Zone'	PowWow White® Coneflower Pardon Me Daylily Stella de Oro Dwarf Daylily Caramel Coral Bells Peach Crisp Coral Bells Sugar Plum Coral Bells Guacamole Plantain Lily Big Blue Lilyturf Pink Muhly Grass Pink Muhly Grass White Muhly Grass Emerald Blue Creeping Phlox Dwarf Mondo Grass Lemon Ball Sedum Twilight Zone Little Bluestem	6-12" 6-12" 6-12" 6-12" 6-12" 6-12" 6-12" 6-12" 6-12" 6-12" 18-24" 6-12" 4-6" 3-6" 6-12"		#1 Cont. #1 Cont. #1 Cont. #1 Cont. #1 Cont. #1 Cont. #1 Cont. #3 Cont. #sp4 #3 Cont. #sp4 #sp4 #1 Cont. #sp4 #1 Cont.	13.3 13.2.3 13.2.3 13.3 13.3 13.3 13.2.4 13.5 13.4 13.4 13.5 13.4 13.5 13.4	1.5' O.C. 1.75' O.C. 1.75' O.C. 1.5' O.C. 1.25' O.C. 1.25' O.C. As Shown 1' O.C. 3' O.C. 3' O.C. 3' O.C. 15" O.C. 15" O.C.
	1670 1670 1670 1670 1670 1670 1670 1670	31 347 303 64 24 24 18 954 134 374 237 136 278 50 18	ea ea ea ea ea ea ea ea	EW HM HD HC HP HS HG LB MC MCG MWG PE OJ SM ST SA	Echinacea purpurea 'PAS702918' Hemerocallis x 'Pardon Me' Hemerocallis x 'Stella de Oro' Heuchera 'Caramel' Heuchera x 'Peach Crisp' Heuchera x 'Sugar Plum' Hosta x 'Guacamole' Liriope muscari 'Big Blue' Muhlenbergia capillaris Muhlenbergia capillaris 'White Cloud' Phlox subulata 'Emerald Blue' Ophiopogon japonicus 'Nana' Sedum mexicanum 'Lemon Ball' Schizachyrium scoparium 'Twilight Zone' Sedum spectabile 'Autumn Joy'	PowWow White® Coneflower Pardon Me Daylily Stella de Oro Dwarf Daylily Caramel Coral Bells Peach Crisp Coral Bells Sugar Plum Coral Bells Guacamole Plantain Lily Big Blue Lilyturf Pink Muhly Grass Pink Muhly Grass White Muhly Grass Emerald Blue Creeping Phlox Dwarf Mondo Grass Lemon Ball Sedum Twilight Zone Little Bluestem Autumn Joy Sedum	6-12" 6-12" 6-12" 6-12" 6-12" 6-12" 6-12" 6-12" 6-12" 6-12" 18-24" 6-12" 4-6" 3-6" 3-6" 6-12"		#1 Cont. #1 Cont. #1 Cont. #1 Cont. #1 Cont. #1 Cont. #1 Cont. #3 Cont. #sp4 #3 Cont. #sp4 #sp4 #1 Cont. #sp4 #1 Cont. #sp4 #1 Cont. #sp4 #1 Cont. #sp4 #1 Cont.	13.3 13.2.3 13.2.3 13.3 13.3 13.3 13.2.4 13.5 13.4 13.4 13.5 13.4 13.5 13.4 13.5 13.4	1.5' O.C. 1.75' O.C. 1.75' O.C. 1.5' O.C. 1.25' O.C. 1.25' O.C. As Shown 1' O.C. 3' O.C. 3' O.C. 15" O.C. 15" O.C. 10" O.C. 1.75' O.C.
	1670 1670 1670 1670 1670 1670 1670 1670	31 347 303 64 24 24 18 954 134 374 237 136 278 50 18 111 176	ea ea ea ea ea ea ea ea ea ea ea ea ea e	EW HM HD HC HP HS HG LB MC MCG MWG PE OJ SM ST SA SL	Echinacea purpurea 'PAS702918' Hemerocallis x 'Pardon Me' Hemerocallis x 'Stella de Oro' Heuchera 'Caramel' Heuchera x 'Peach Crisp' Heuchera x 'Sugar Plum' Hosta x 'Guacamole' Liriope muscari 'Big Blue' Muhlenbergia capillaris Muhlenbergia capillaris 'White Cloud' Phlox subulata 'Emerald Blue' Ophiopogon japonicus 'Nana' Sedum mexicanum 'Lemon Ball' Schizachyrium scoparium 'Twilight Zone' Sedum spectabile 'Autumn Joy' Sedum spectabile 'Lemonjade'	PowWow White® Coneflower Pardon Me Daylily Stella de Oro Dwarf Daylily Caramel Coral Bells Peach Crisp Coral Bells Sugar Plum Coral Bells Guacamole Plantain Lily Big Blue Lilyturf Pink Muhly Grass Pink Muhly Grass White Muhly Grass Emerald Blue Creeping Phlox Dwarf Mondo Grass Lemon Ball Sedum Twilight Zone Little Bluestem Autumn Joy Sedum Sedum Rock 'N' Grow® 'Lemonjade'	6-12" 6-12" 6-12" 6-12" 6-12" 6-12" 6-12" 6-12" 6-12" 6-12" 18-24" 6-12" 4-6" 3-6" 3-6" 6-12" 12-18"		#1 Cont. #1 Cont. #1 Cont. #1 Cont. #1 Cont. #1 Cont. #1 Cont. #3 Cont. #sp4 #3 Cont. #sp4 #sp4 #1 Cont. #sp4 #1 Cont. #sp4 #1 Cont. #sp4 #1 Cont. #1 Cont.	13.3 13.2.3 13.2.3 13.3 13.3 13.3 13.2.4 13.5 13.4 13.4 13.5 13.5 13.4 13.5 13.5 13.3 13.3	1.5' O.C. 1.75' O.C. 1.75' O.C. 1.5' O.C. 1.25' O.C. 1.25' O.C. As Shown 1' O.C. 3' O.C. 3' O.C. 3' O.C. 15" O.C. 10" O.C. 1.75' O.C. 1.75' O.C.
	1670 1670 1670 1670 1670 1670 1670 1670	31 347 303 64 24 18 954 134 374 237 136 278 50 18 111 176 365	ea ea ea ea ea ea ea ea ea ea ea ea ea e	EW HM HD HC HP HS HG LB MC MCG MWG OJ SM ST SA SL SP	Echinacea purpurea 'PAS702918' Hemerocallis x 'Pardon Me' Hemerocallis x 'Stella de Oro' Heuchera 'Caramel' Heuchera x 'Peach Crisp' Heuchera x 'Sugar Plum' Hosta x 'Guacamole' Liriope muscari 'Big Blue' Muhlenbergia capillaris Muhlenbergia capillaris Muhlenbergia capillaris 'White Cloud' Phlox subulata 'Emerald Blue' Ophiopogon japonicus 'Nana' Sedum mexicanum 'Lemon Ball' Schizachyrium scoparium 'Twilight Zone' Sedum spectabile 'Autumn Joy' Sedum spectabile 'Lemonjade' Sedum spectabile 'Pure Joy'	PowWow White® Coneflower Pardon Me Daylily Stella de Oro Dwarf Daylily Caramel Coral Bells Peach Crisp Coral Bells Sugar Plum Coral Bells Guacamole Plantain Lily Big Blue Lilyturf Pink Muhly Grass Pink Muhly Grass White Muhly Grass White Muhly Grass Emerald Blue Creeping Phlox Dwarf Mondo Grass Lemon Ball Sedum Twilight Zone Little Bluestem Autumn Joy Sedum Sedum Rock 'N' Grow® 'Lemonjade' Sedum Rock 'N' Grow® 'Pure Joy'	6-12" 6-12" 6-12" 6-12" 6-12" 6-12" 6-12" 6-12" 6-12" 6-12" 18-24" 6-12" 4-6" 3-6" 3-6" 6-12" 12-18" 6-12"		#1 Cont. #1 Cont. #1 Cont. #1 Cont. #1 Cont. #1 Cont. #1 Cont. #3 Cont. #5p4 #3 Cont. #5p4 #5p4 #1 Cont. #5p4 #5p4 #1 Cont. #1 Cont. #1 Cont. #1 Cont. #1 Cont. #1 Cont.	13.3 13.2.3 13.2.3 13.3 13.3 13.3 13.5 13.4 13.4 13.4 13.5 13.5 13.3 13.3 13.3	1.5' O.C. 1.75' O.C. 1.75' O.C. 1.5' O.C. 1.25' O.C. 1.25' O.C. As Shown 1' O.C. 3' O.C. 3' O.C. 15" O.C. 10" O.C. 1.75' O.C. 1.75' O.C. 1.75' O.C.
	1670 1670 1670 1670 1670 1670 1670 1670	31 347 303 64 24 18 954 134 374 237 136 278 50 18 111 176 365 796	ea ea ea ea ea ea ea ea ea ea ea ea ea e	EW HM HD HC HP HS HG LB MC MCG MWG PE SM ST SA SL SP SH	Echinacea purpurea 'PAS702918' Hemerocallis x 'Pardon Me' Hemerocallis x 'Stella de Oro' Heuchera 'Caramel' Heuchera x 'Peach Crisp' Heuchera x 'Sugar Plum' Hosta x 'Guacamole' Liriope muscari 'Big Blue' Muhlenbergia capillaris Muhlenbergia capillaris 'White Cloud' Phlox subulata 'Emerald Blue' Ophiopogon japonicus 'Nana' Sedum mexicanum 'Lemon Ball' Schizachyrium scoparium 'Twilight Zone' Sedum spectabile 'Autumn Joy' Sedum spectabile 'Lemonjade' Sedum spectabile 'Pure Joy' Sporobolus heterolepis	PowWow White® Coneflower Pardon Me Daylily Stella de Oro Dwarf Daylily Caramel Coral Bells Peach Crisp Coral Bells Sugar Plum Coral Bells Guacamole Plantain Lily Big Blue Lilyturf Pink Muhly Grass Pink Muhly Grass White Muhly Grass Emerald Blue Creeping Phlox Dwarf Mondo Grass Lemon Ball Sedum Twilight Zone Little Bluestem Autumn Joy Sedum Sedum Rock 'N' Grow® 'Pure Joy' Prairie Dropseed	6-12" 6-12" 6-12" 6-12" 6-12" 6-12" 6-12" 6-12" 6-12" 18-24" 6-12" 4-6" 3-6" 3-6" 6-12" 12-18" 6-12" 6-12"		#1 Cont. #1 Cont. #1 Cont. #1 Cont. #1 Cont. #1 Cont. #1 Cont. #3 Cont. #5p4 #3 Cont. #5p4 #1 Cont. #5p4 #1 Cont. #1 Cont. #1 Cont. #1 Cont. #1 Cont. #1 Cont. #1 Cont. #1 Cont. #1 Cont. #1 Cont. #1 Cont.	13.3 13.2.3 13.2.3 13.3 13.3 13.3 13.2.4 13.5 13.4 13.4 13.5 13.5 13.4 13.5 13.5 13.3 13.3	1.5' O.C. 1.75' O.C. 1.75' O.C. 1.5' O.C. 1.25' O.C. 1.25' O.C. As Shown 1' O.C. 3' O.C. 3' O.C. 15" O.C. 10" O.C. 1.75' O.C. 1.25' O.C. 1.75' O.C. 1.75' O.C.
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				Other Vegetation Costs	
L	1670	2676	sy	Existing Plant Bed Removal	
L	1670	321	cy	Mulch for Planting	4" Depth
L	1670	2751	sy	Pre emergence Herbicidal Treatment	
L	1670	2751	sy	Post emergence Herbicidal Treatment	
L	1670	1	еа	Selective Tree Pruning & Thinning	
L	1651	2	еа	Selective Tree Removal (6")	
L	1670	51	m/g	Water for Planting	
				New Construction Costs	
L	848	419	sy	4" Concrete Sidewalk	
L	SP	1	LS	Concrete Seat Wall & Fountain	
L	SP	1	LS	Concrete Steps w/ Hand Rail	
L	SP	1	LS	Demolition	
L	848	1	LS	Depressed Curb Ramps	
L	SP	149	су	Fill Soil	
L	SP	1	LS	Irrigation (Inlcudes sleeves)	
L	SP	1	LS	Landscape Grading Landscape Grading	
L	SP	158	LF	Metal Plant Bed Edging	
L	SP	8	еа	Parking Stops	
L	848	1	LS	Returned Curb Ramps	
L	SP	2345	sf	Reused Brick Pavers	
L	SP	1	LS	Site Stormwater Drainage (Includes sleeves)	
L	SP	704	sf	Stone Pavers	
L	SP	295	су	Topsoil	
L	SP	18	еа	Monthly Maintenance	
				* Zenith Zoysiagrass Sod quantity includes 10% extra for waste cuts.	

LOCATION: Northampton Welcome Center (I-95)

TYPE of WORK: Enhancement

COUNTY: Northampton County



#### 2014 American Standard for Nursery Stock

PREPARED BY: KC DATE: 06/2017

REVISIONS

DESCRIPTION

INDEX OF L SHEETS:

L 2.0 - Demolition Plan: Lower Parking Area L 3.0 - Demolition Plan: Building Area

L 8.0 - Planting Plan: Lower Parking Area L 9.0 - Planting Plan: Building Area

L 10.0 - Enlarged Planting Plan: Quadrant A
L 11.0 - Enlarged Planting Plan: Quadrant B
L 12.0 - Enlarged Planting Plan: Quadrant C
L 13.0 - Enlarged Planting Plan: Quadrant D
L 14.0 - Fountain/Plant Bed/Seat Wall Details
L 15.0 - Fountain/Plant Bed/Seat Wall Details

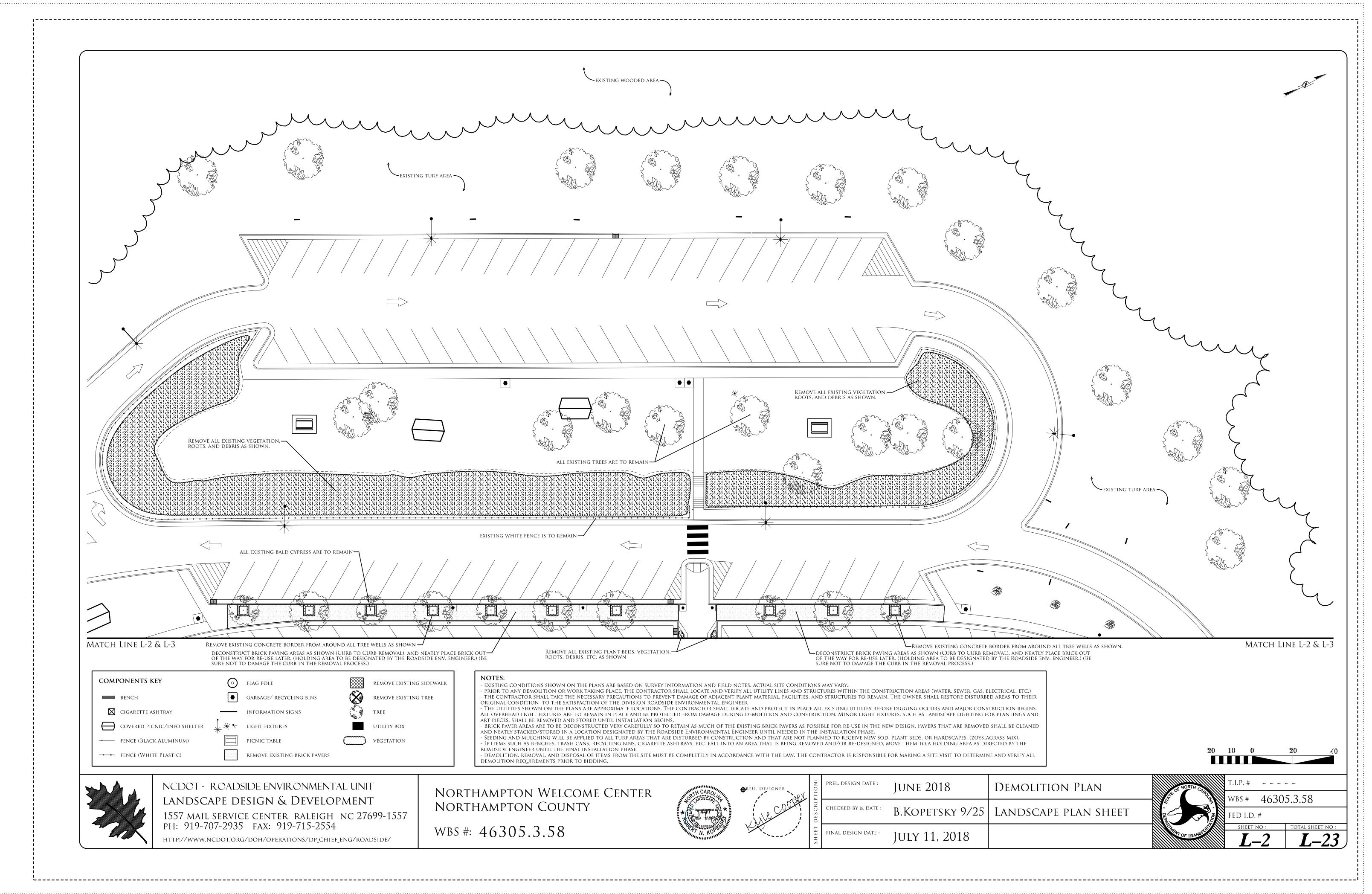
L 19.0 - Concrete Stairs/Handrail Details

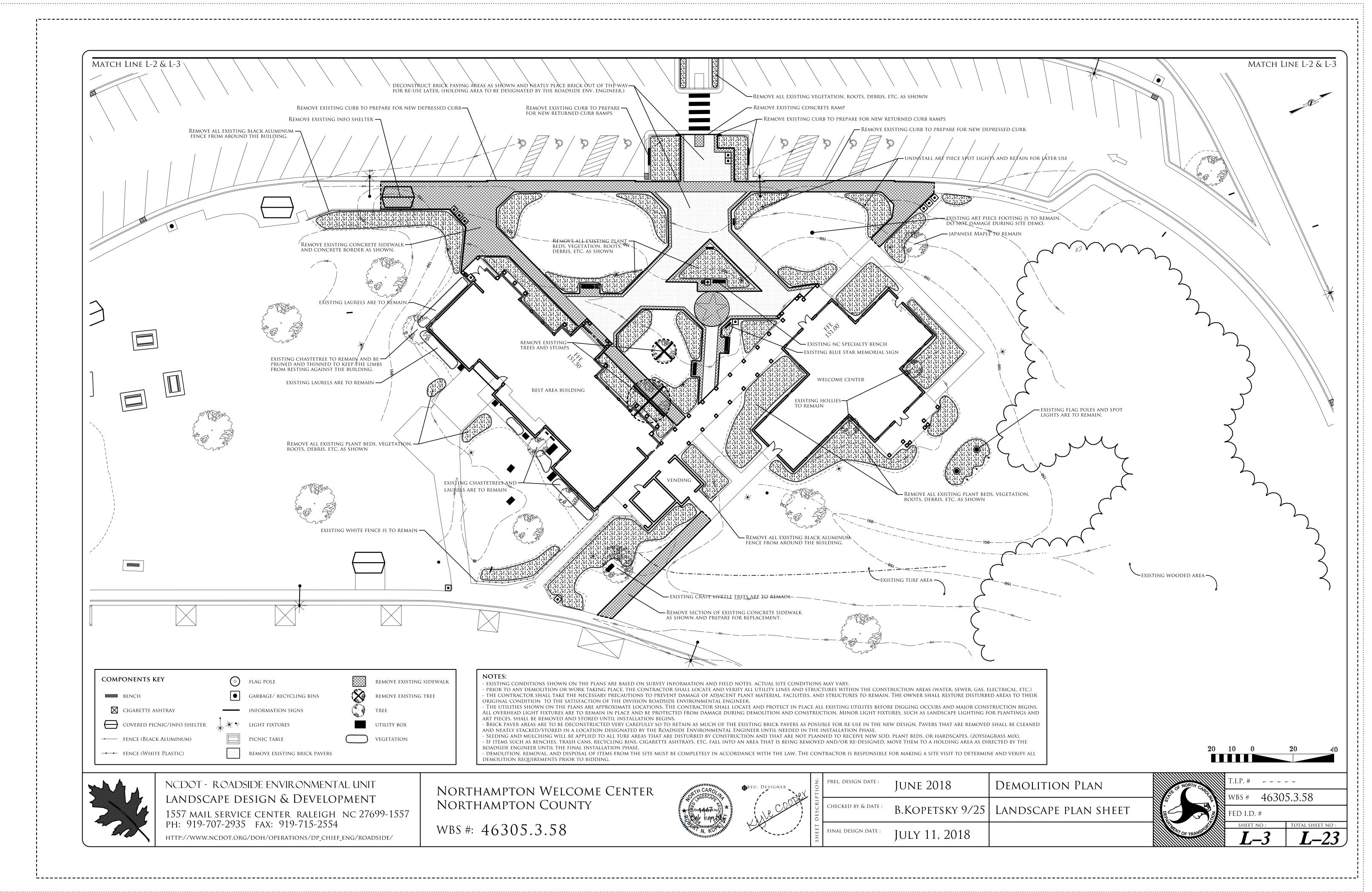
2018 NCDOT STANDARD SPECIFICATIONS
PREPARED IN THE OFFICE OF:

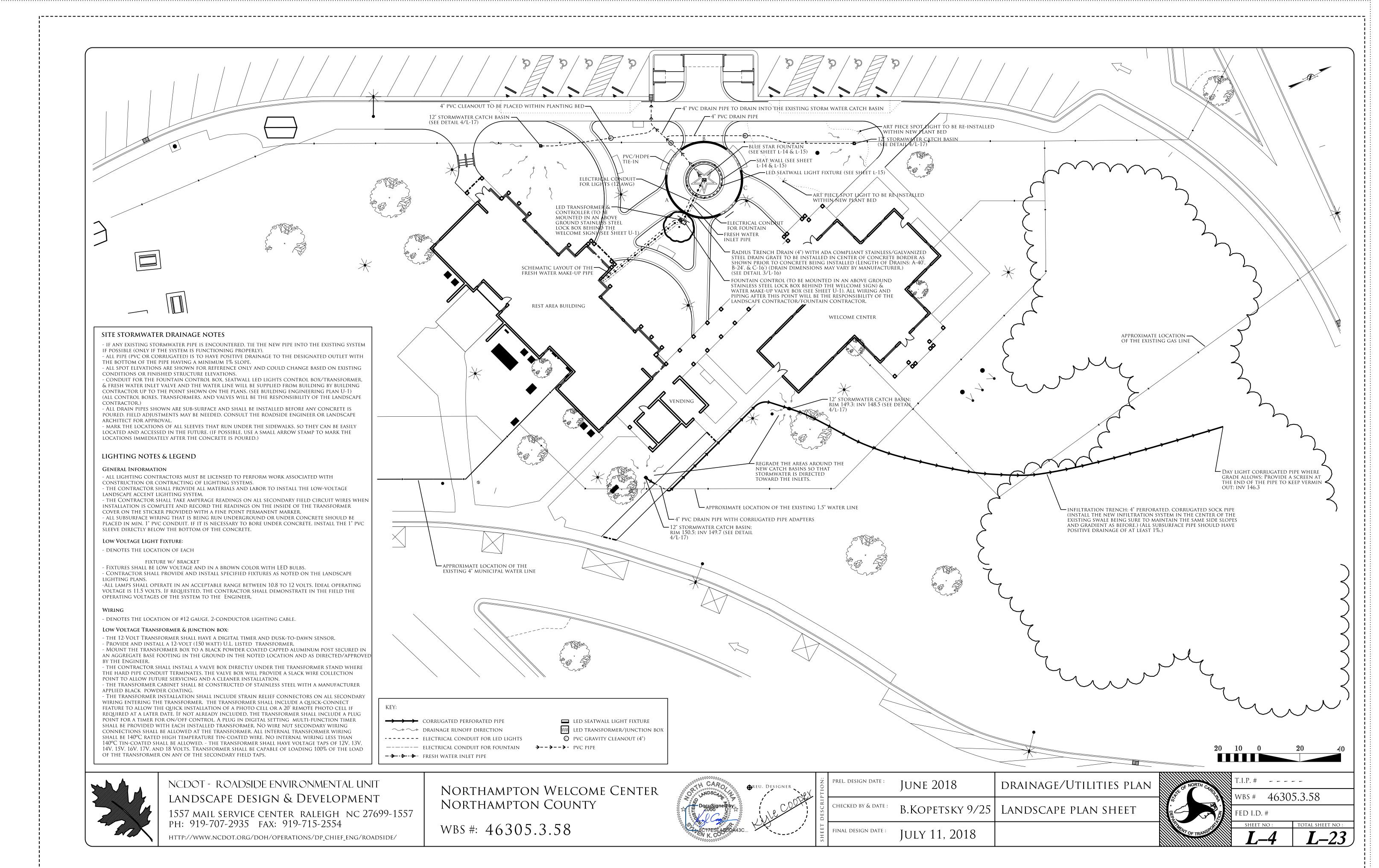
NCDOT- ROADSIDE ENVIRONMENTAL UNIT
AESTHETIC ENGINEERING SECTION
1557 MAIL SERVICE CENTER
RALEIGH NC 27699 919-707-2920

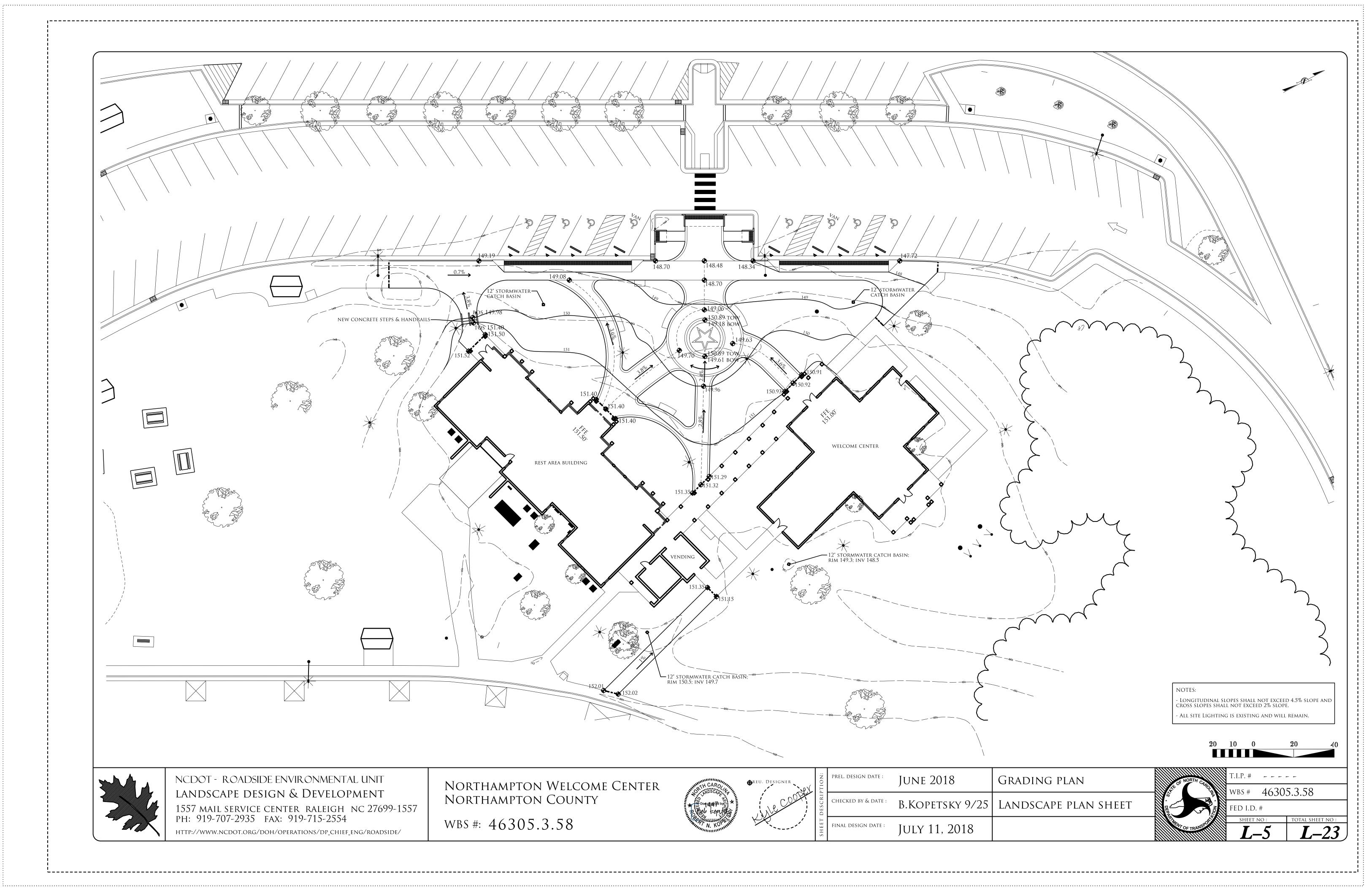


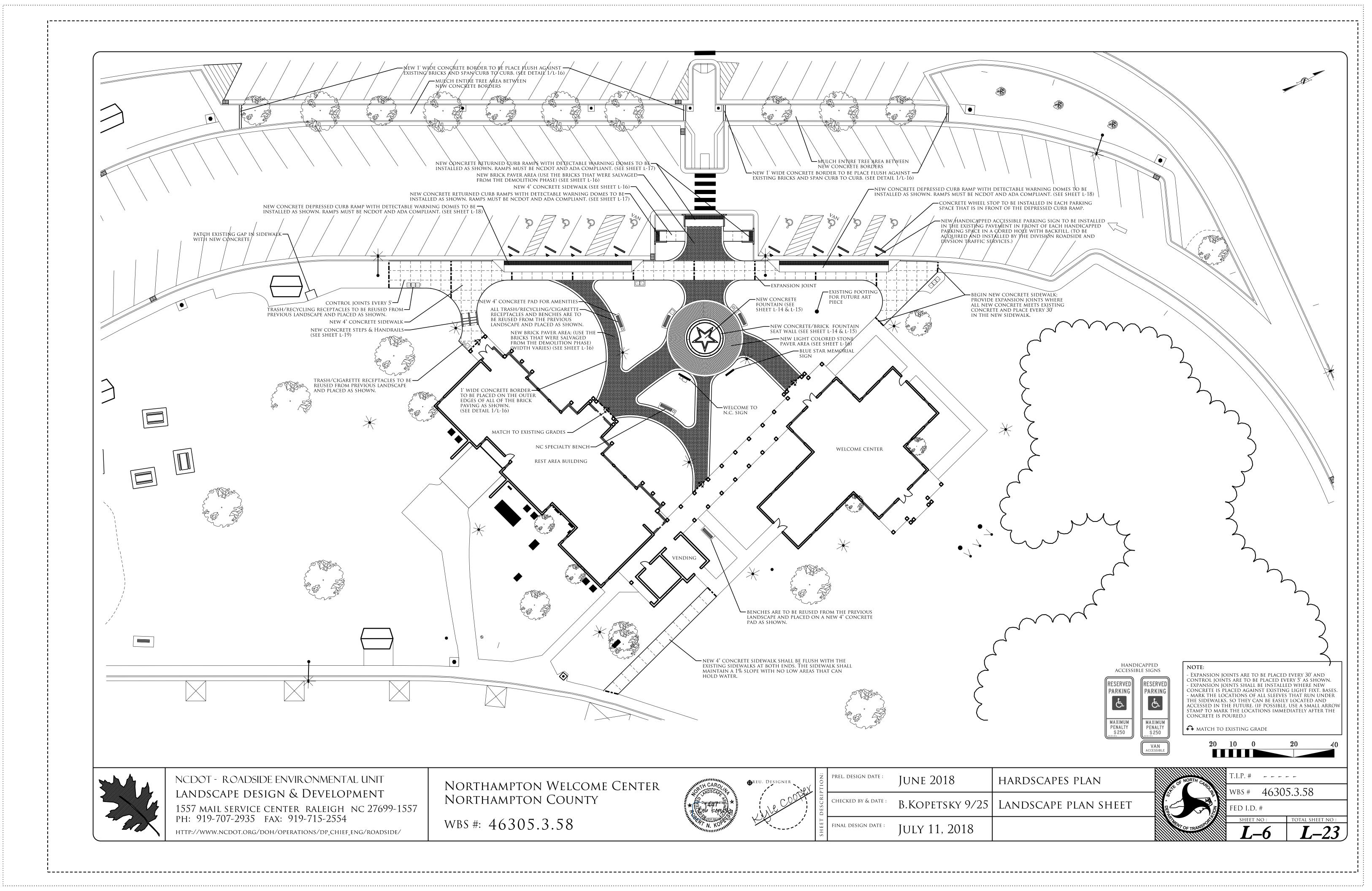
STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

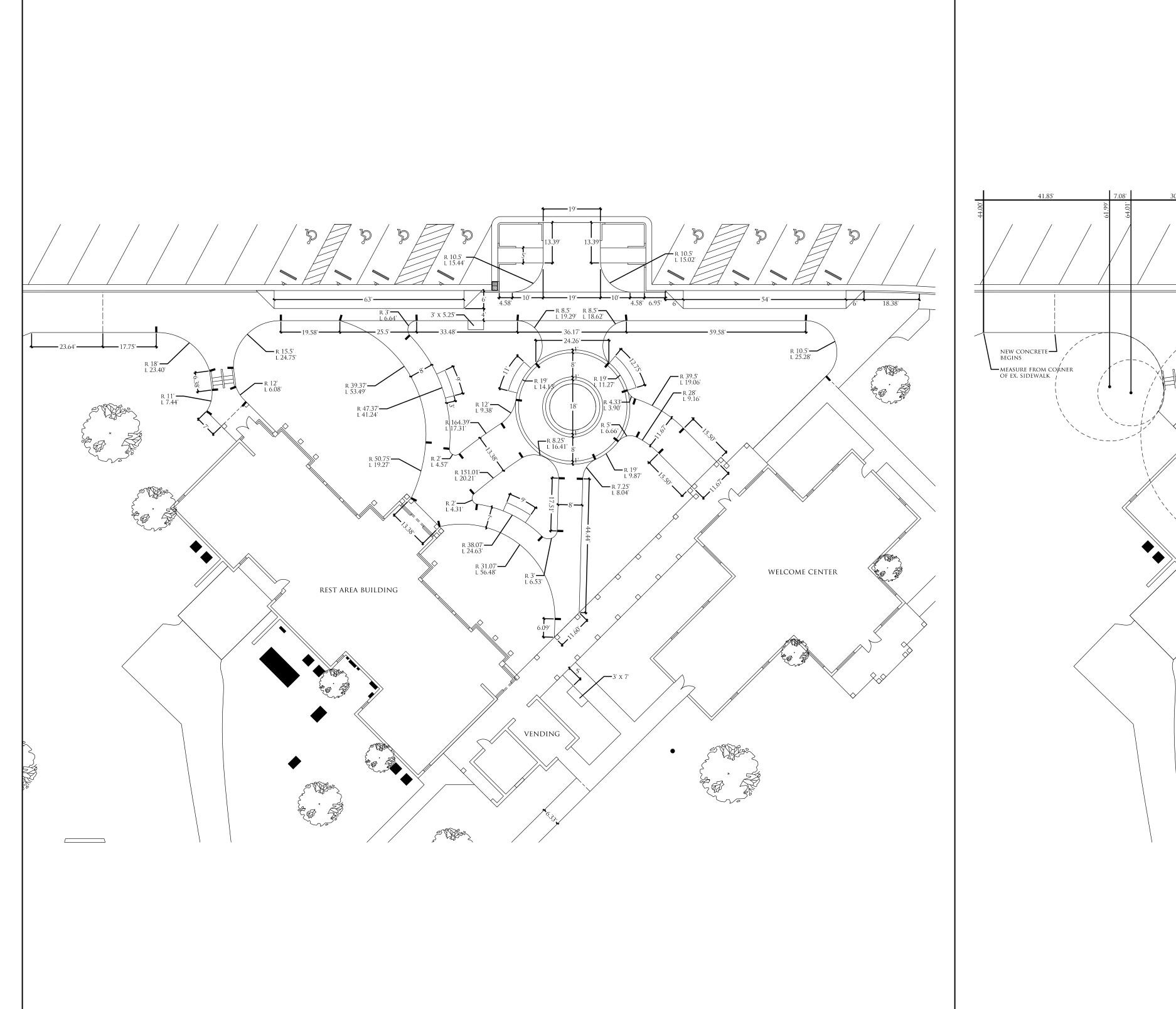


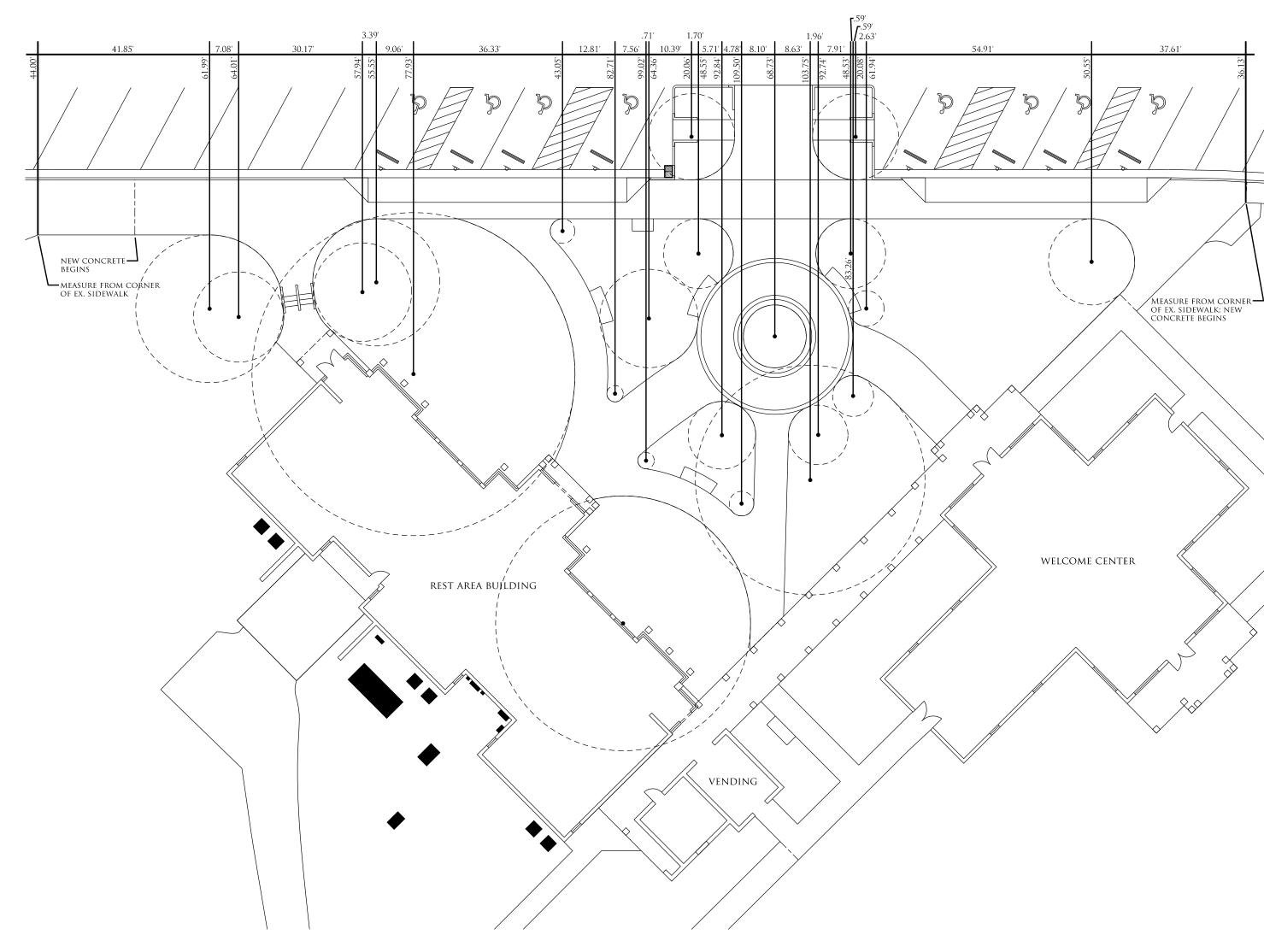














NCDOT - ROADSIDE ENVIRONMENTAL UNIT LANDSCAPE DESIGN & DEVELOPMENT

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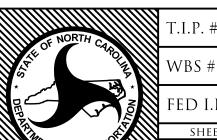
NORTHAMPTON WELCOME CENTER NORTHAMPTON COUNTY

WBS #: 46305.3.58



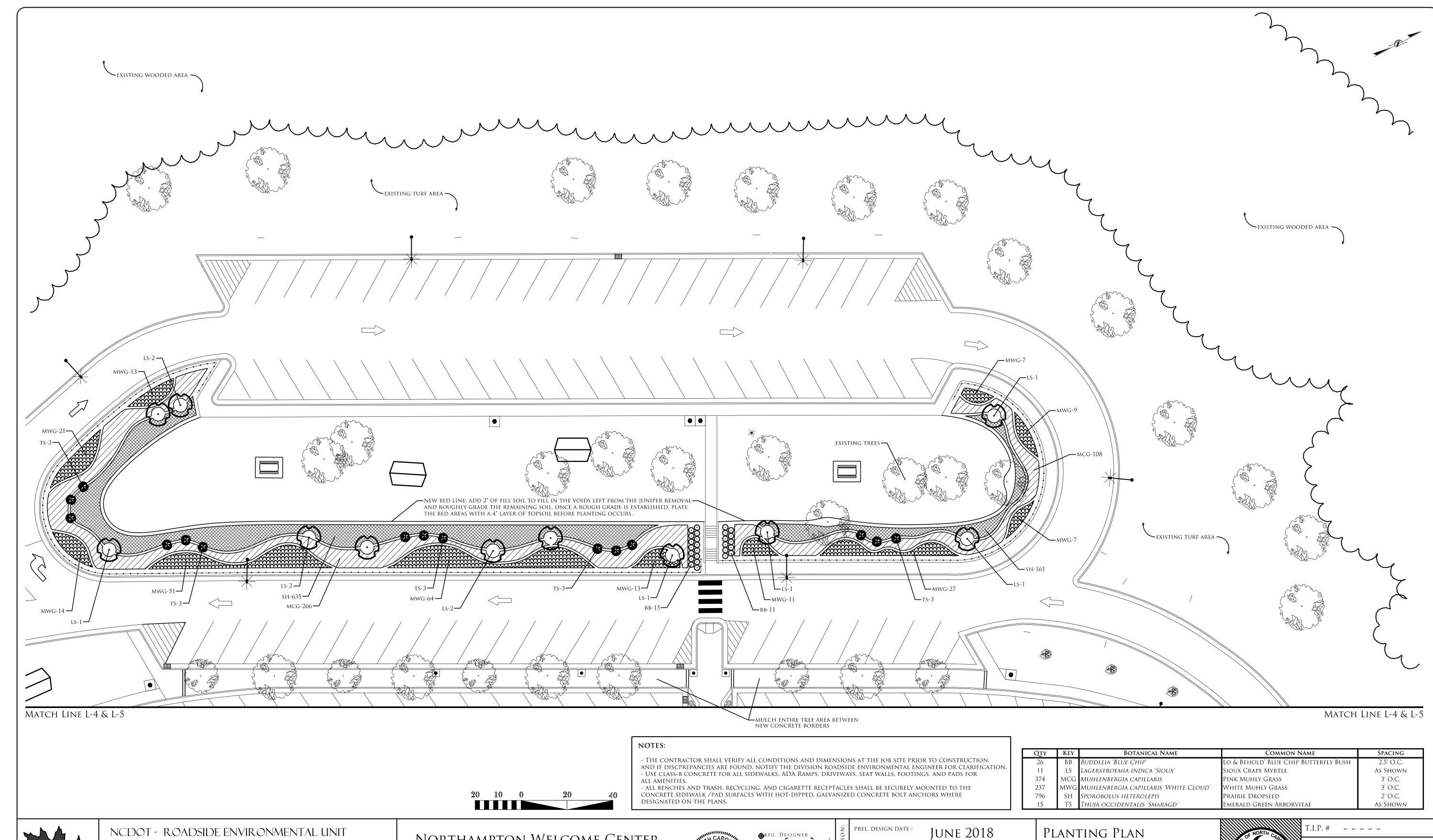


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SHEET	FINAL DESIGN DATE :	July 11, 2018		



	T.I.P. #			
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LANDSCAPE DESIGN & DEVELOPMENT

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NORTHAMPTON WELCOME CENTER NORTHAMPTON COUNTY

WBS #: 46305.3.58





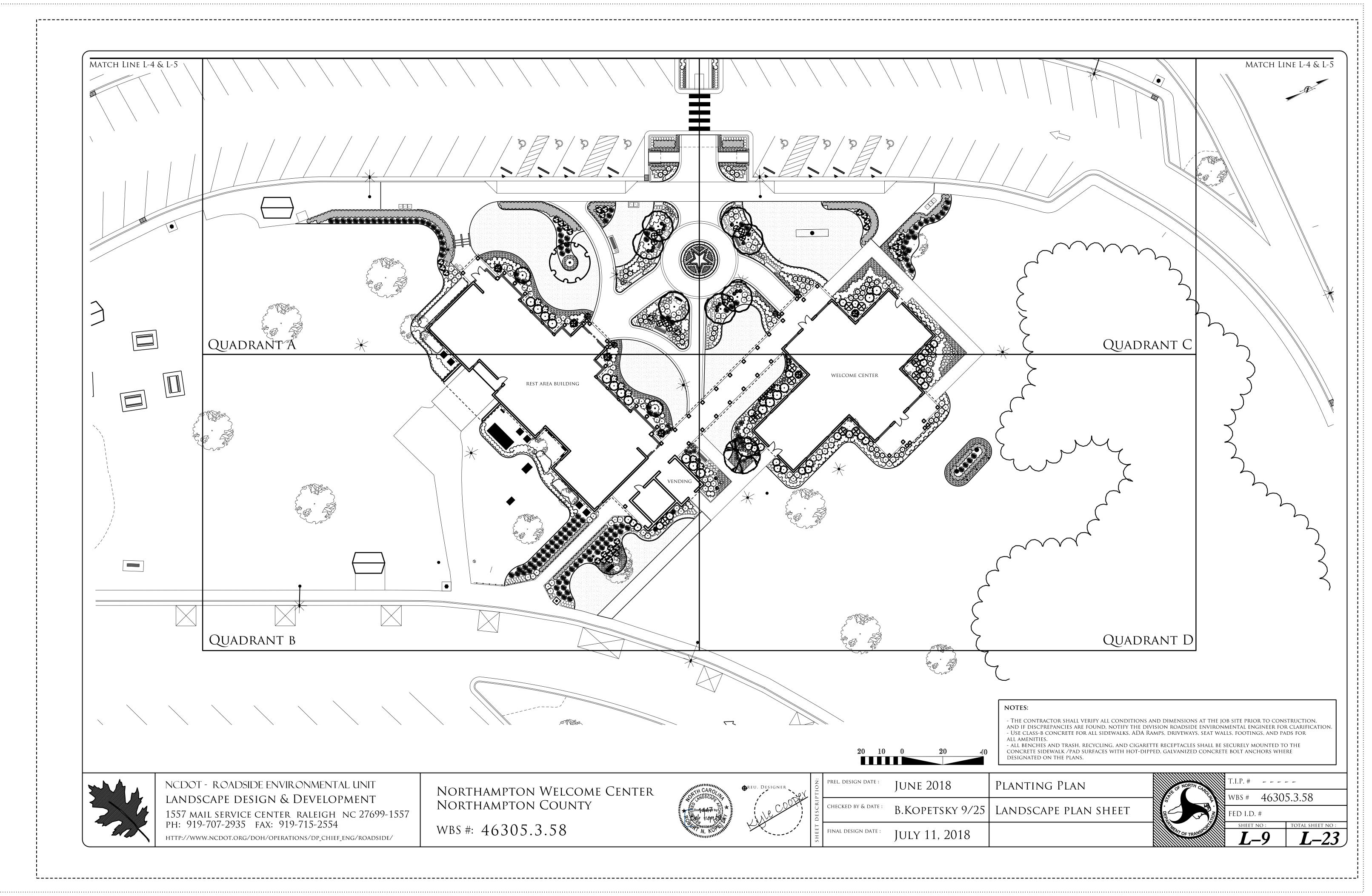
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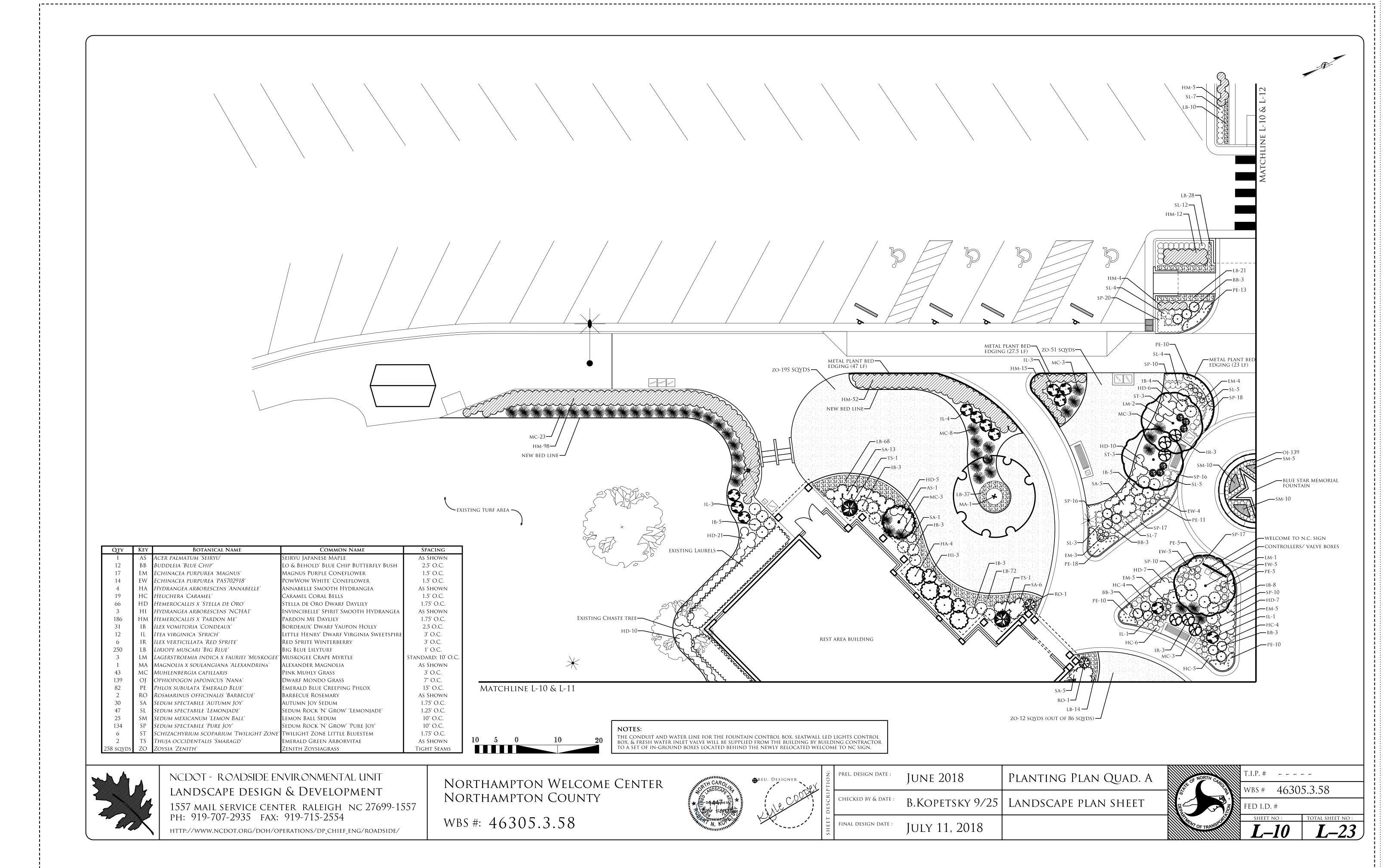


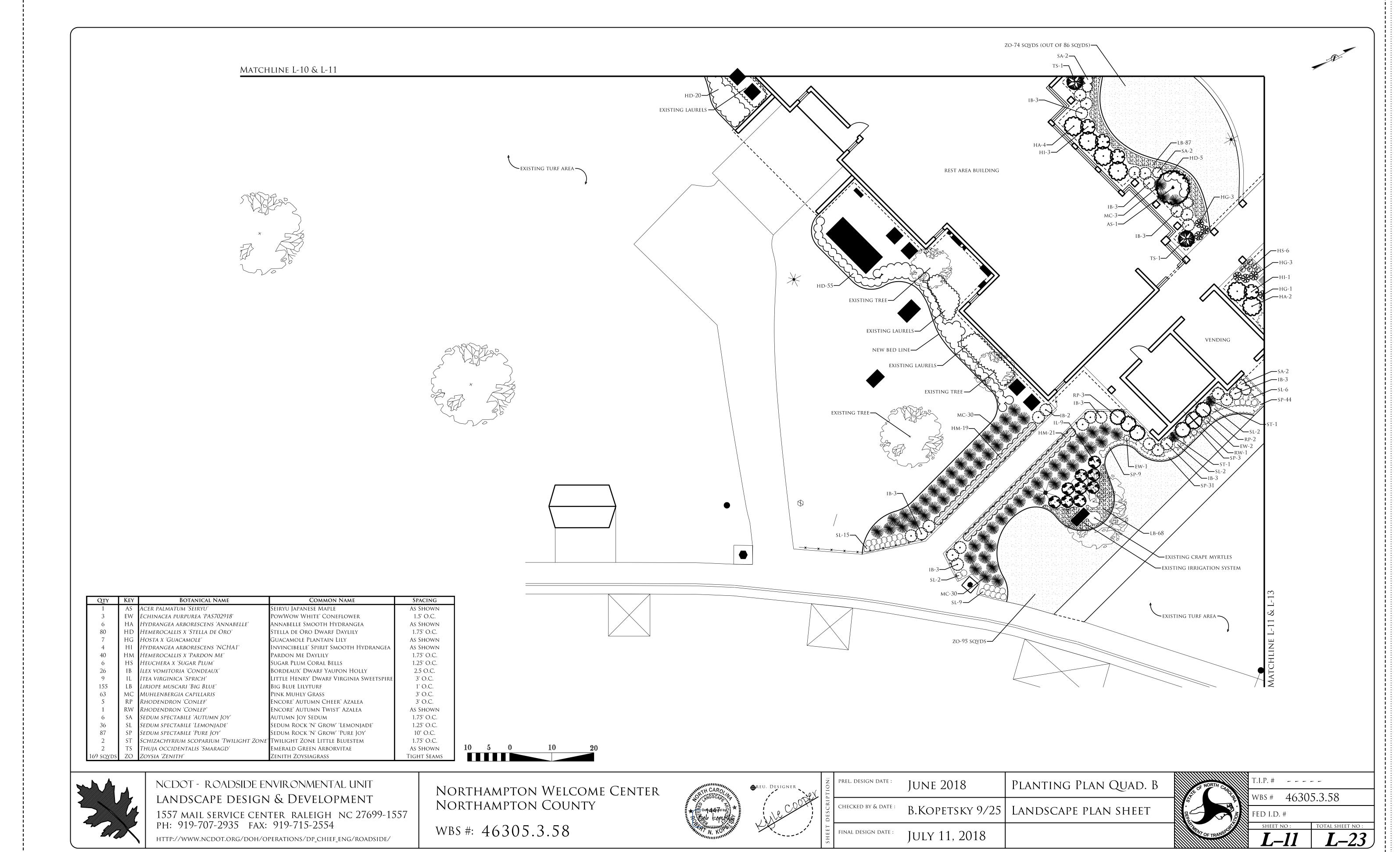
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WBS#	46305.3.58

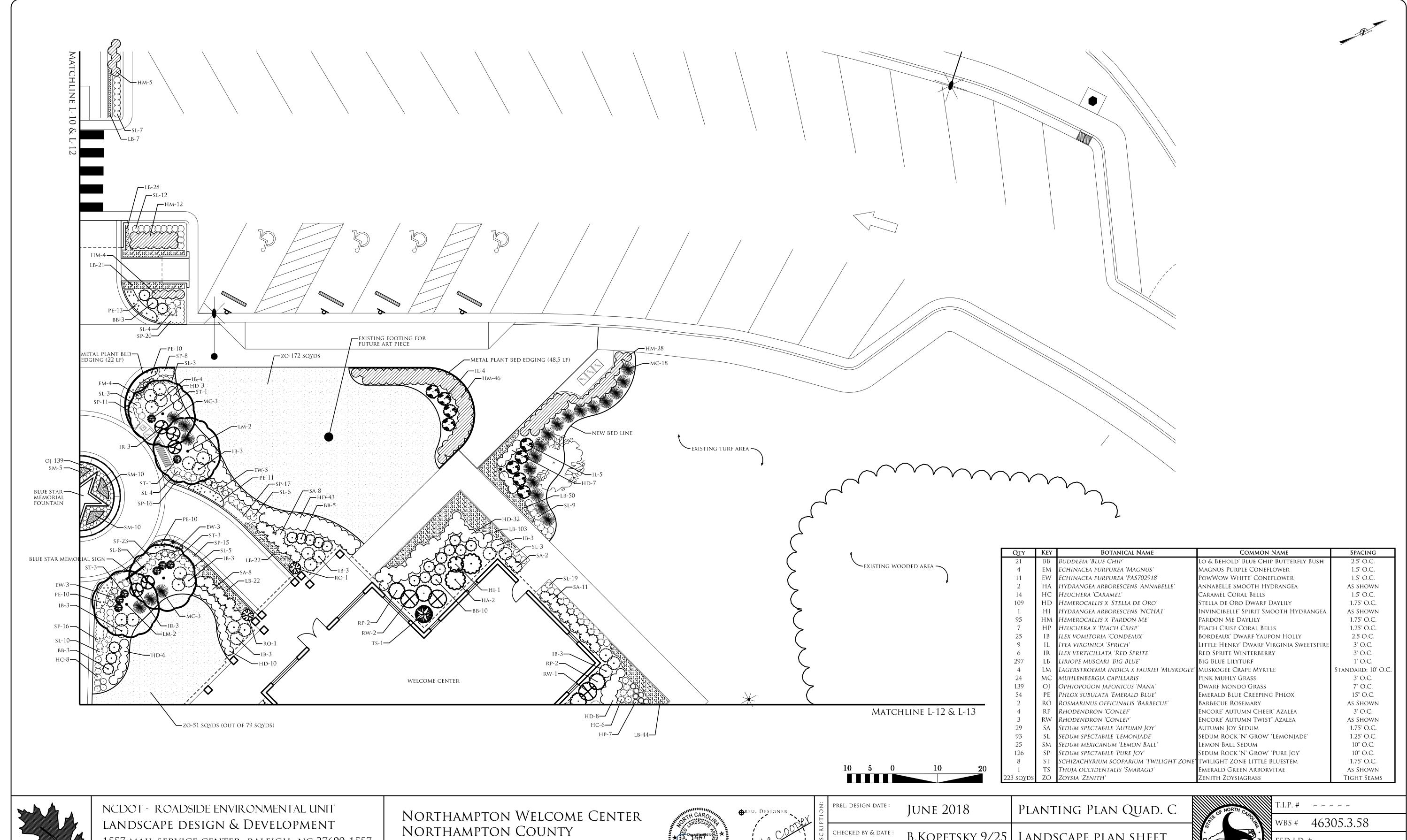
FED I.D. #

JULY 11, 2018











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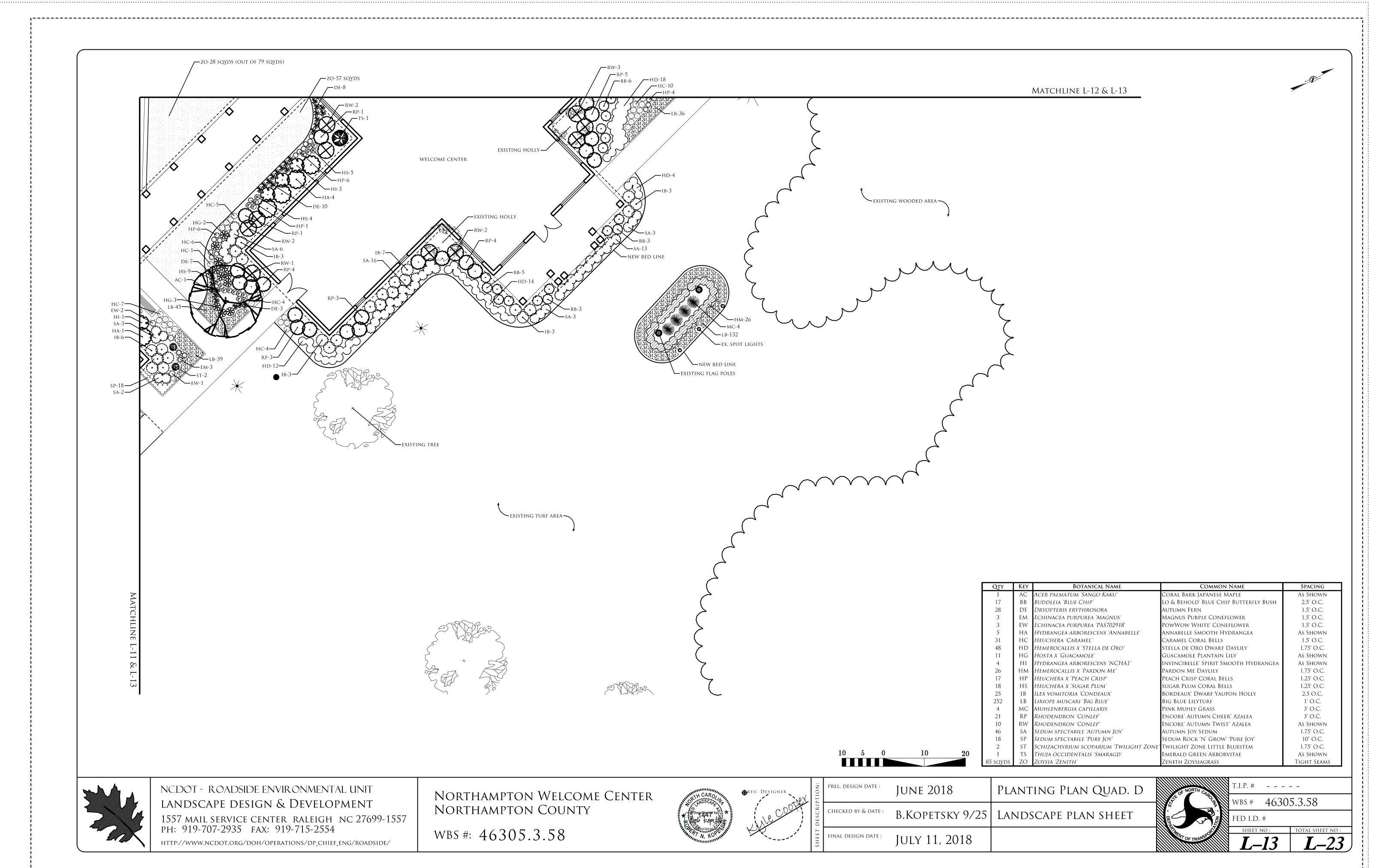
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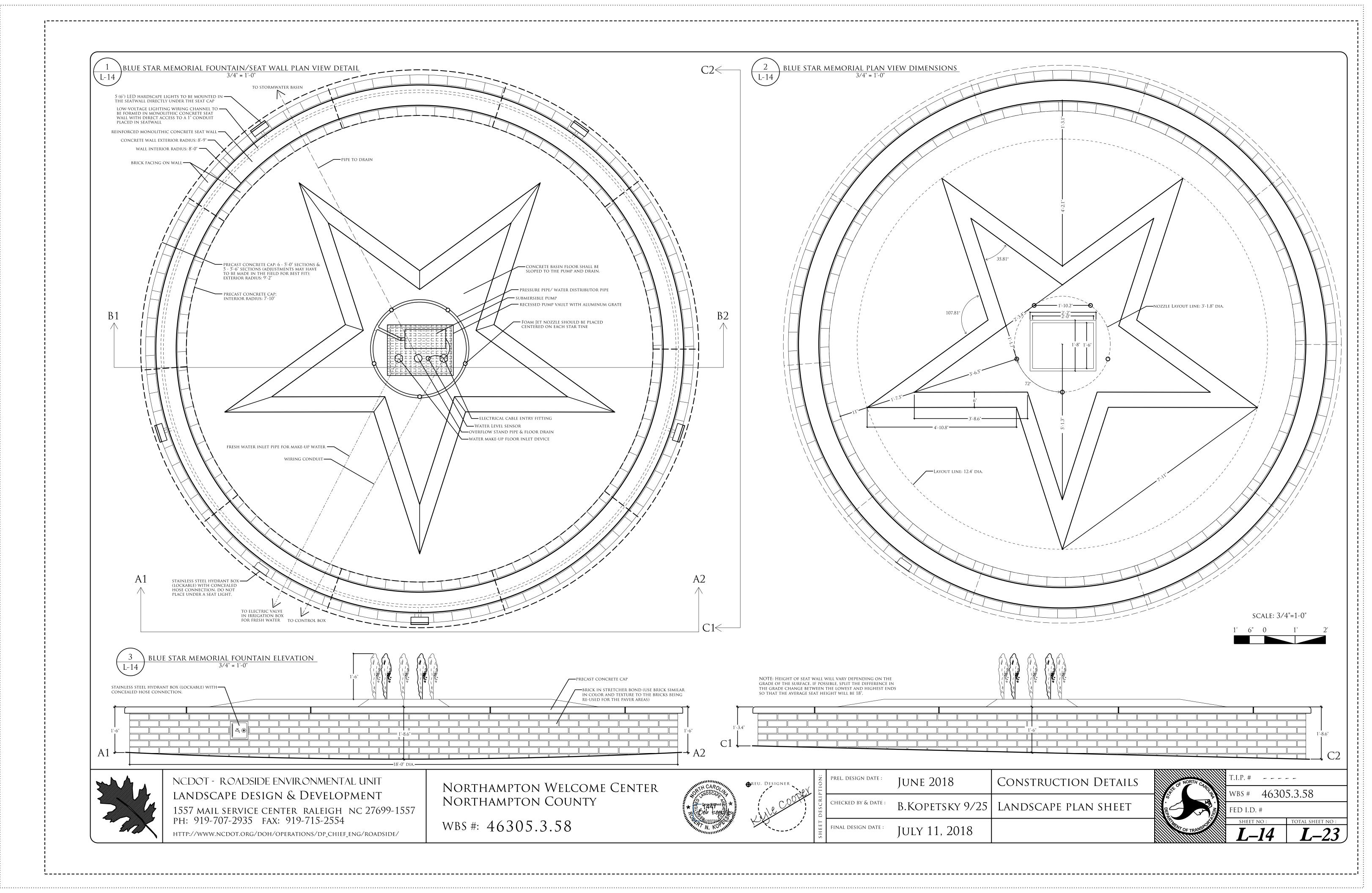


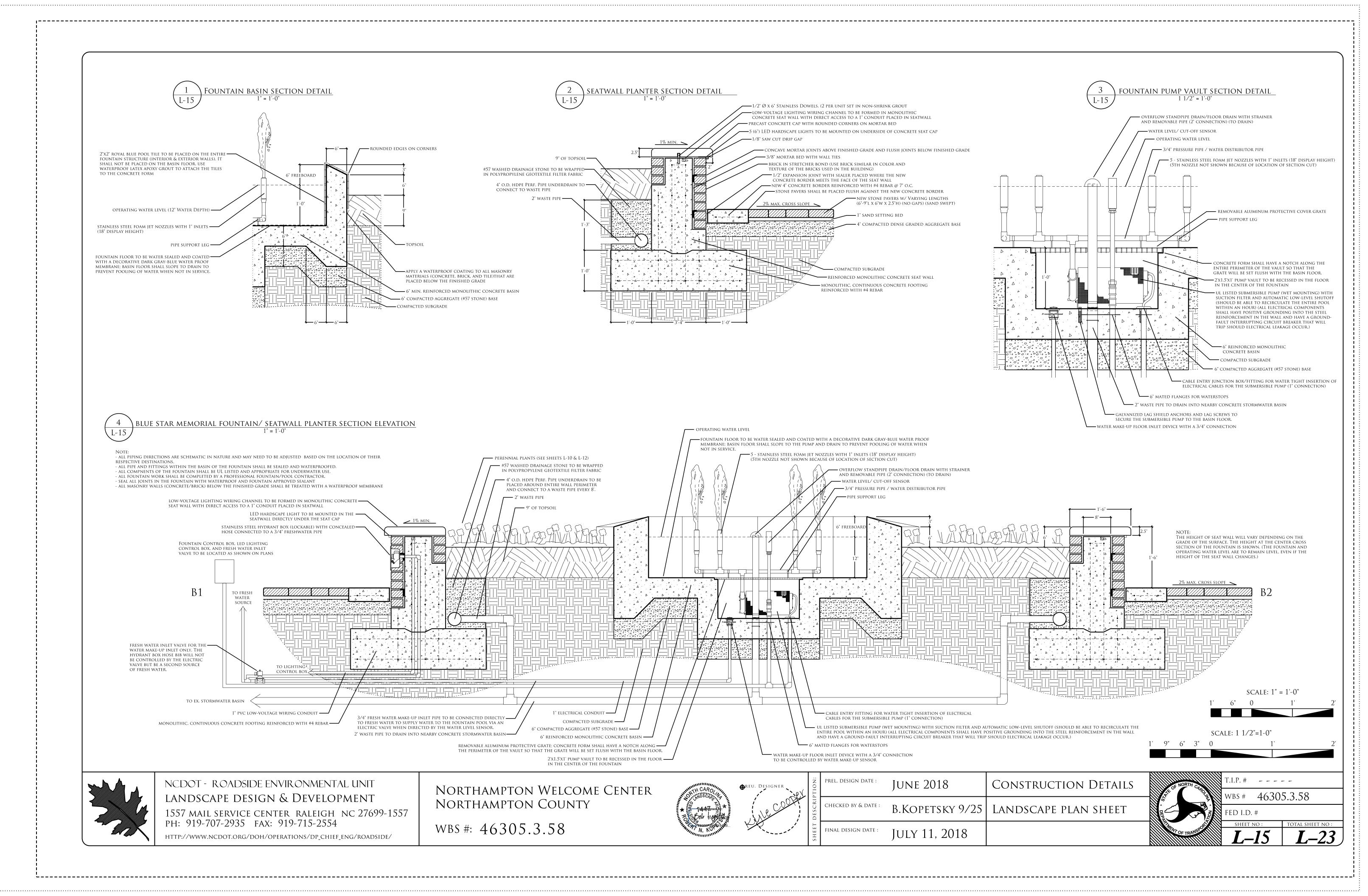


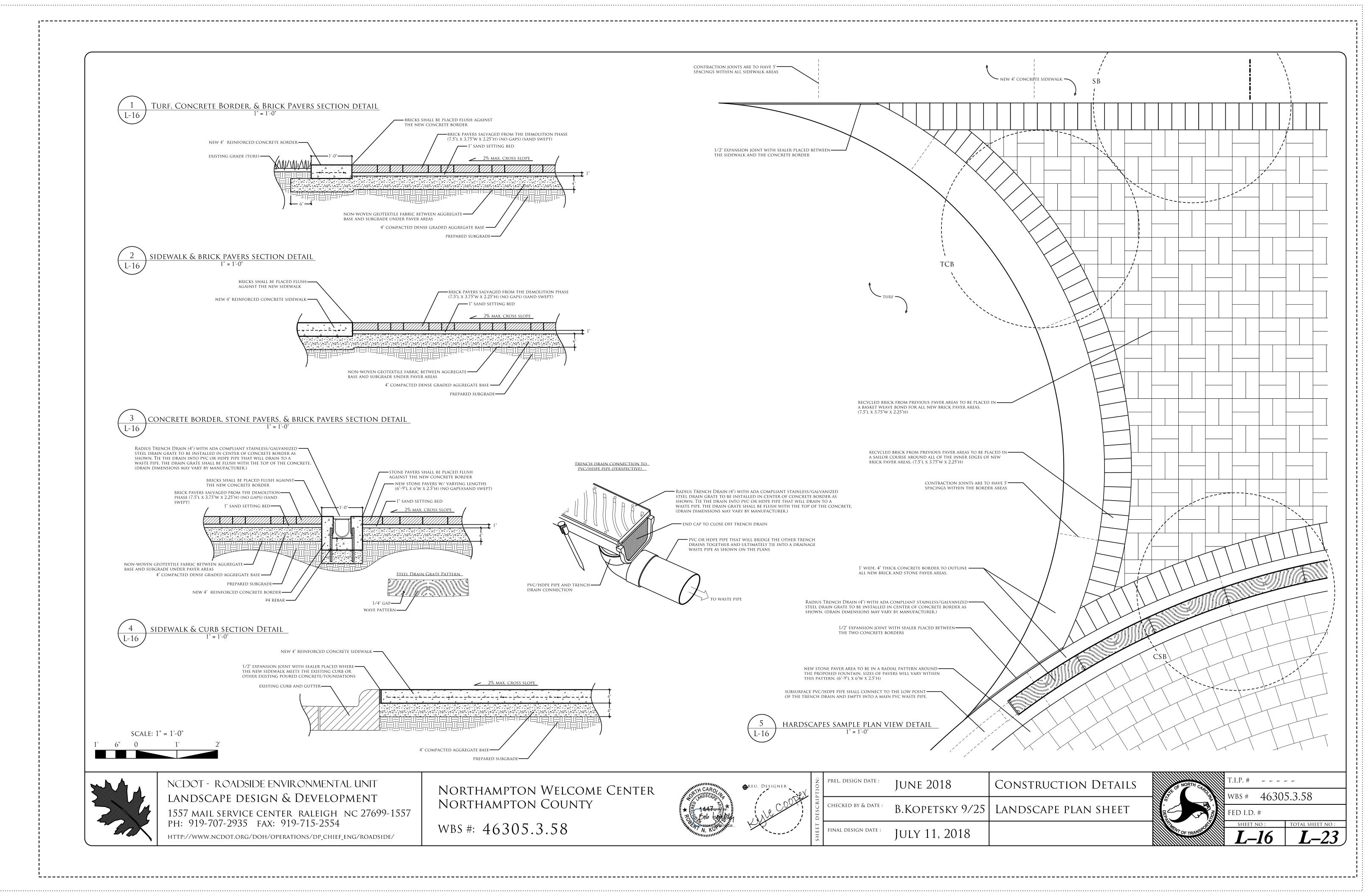
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	DESCRII	CHECKED BY & DATE :	B.KOPETSKY 9/25	Landscape plan sheet
	SHEET	FINAL DESIGN DATE :	July 11, 2018	



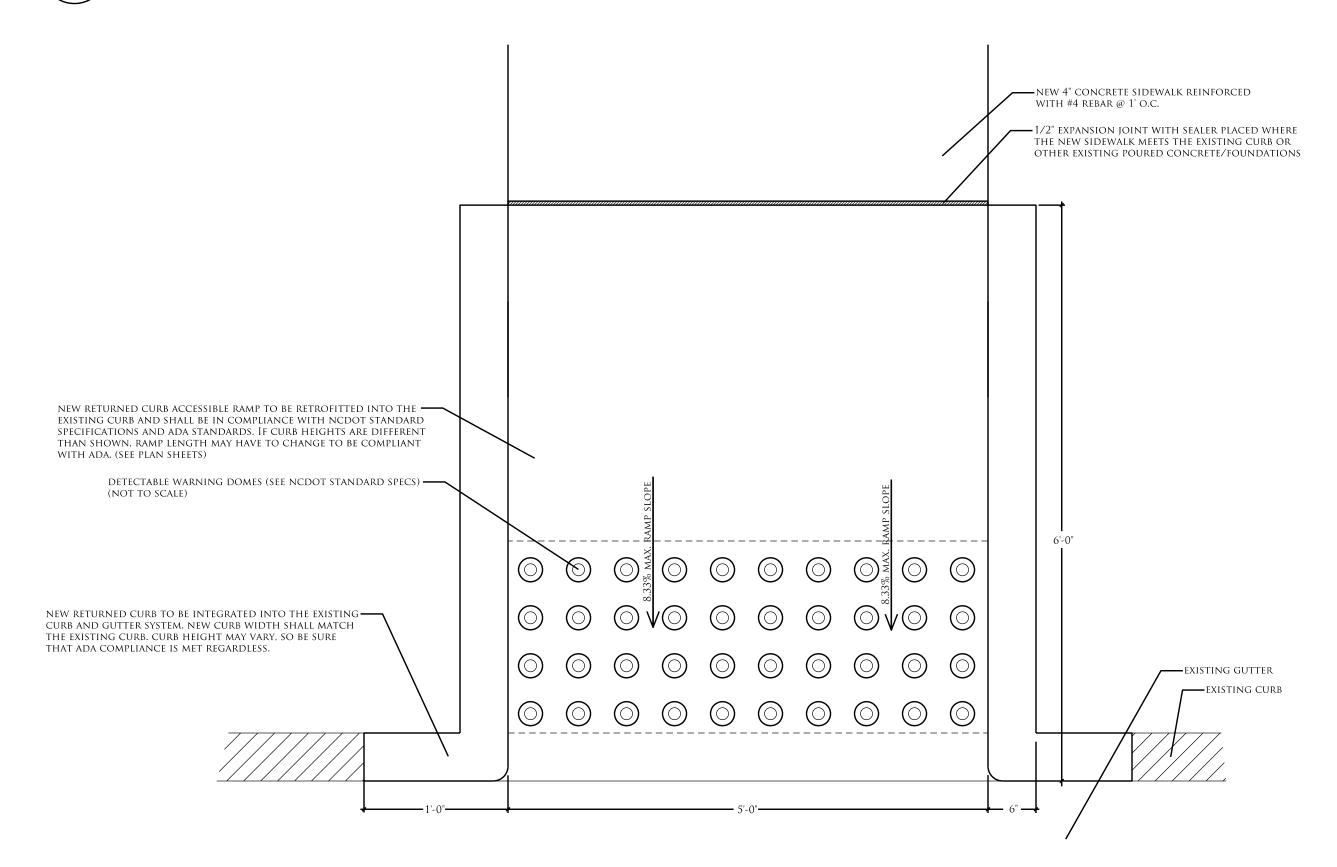




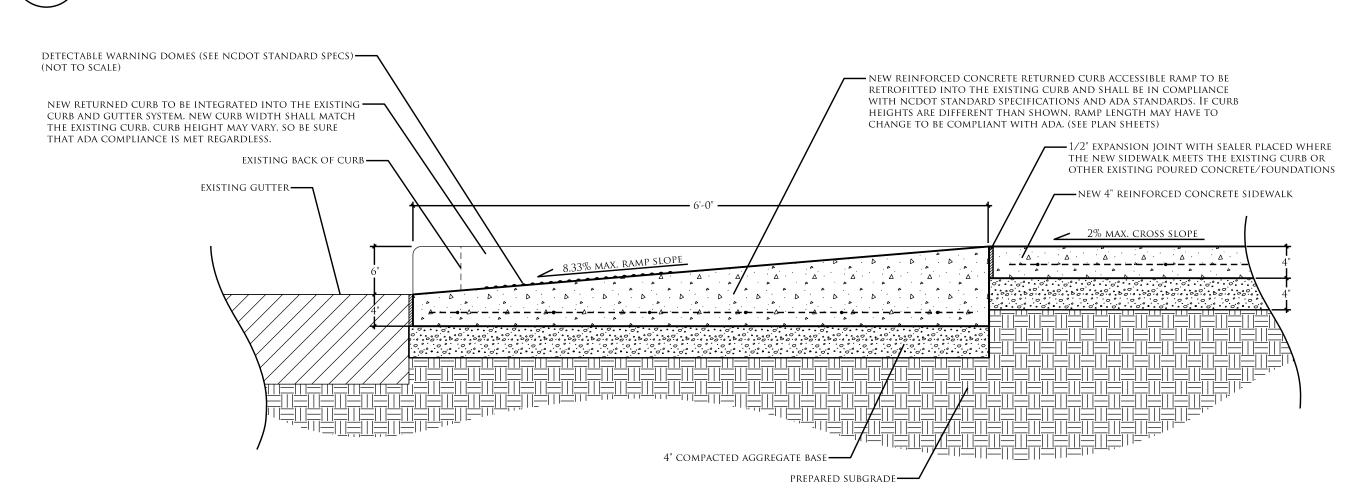




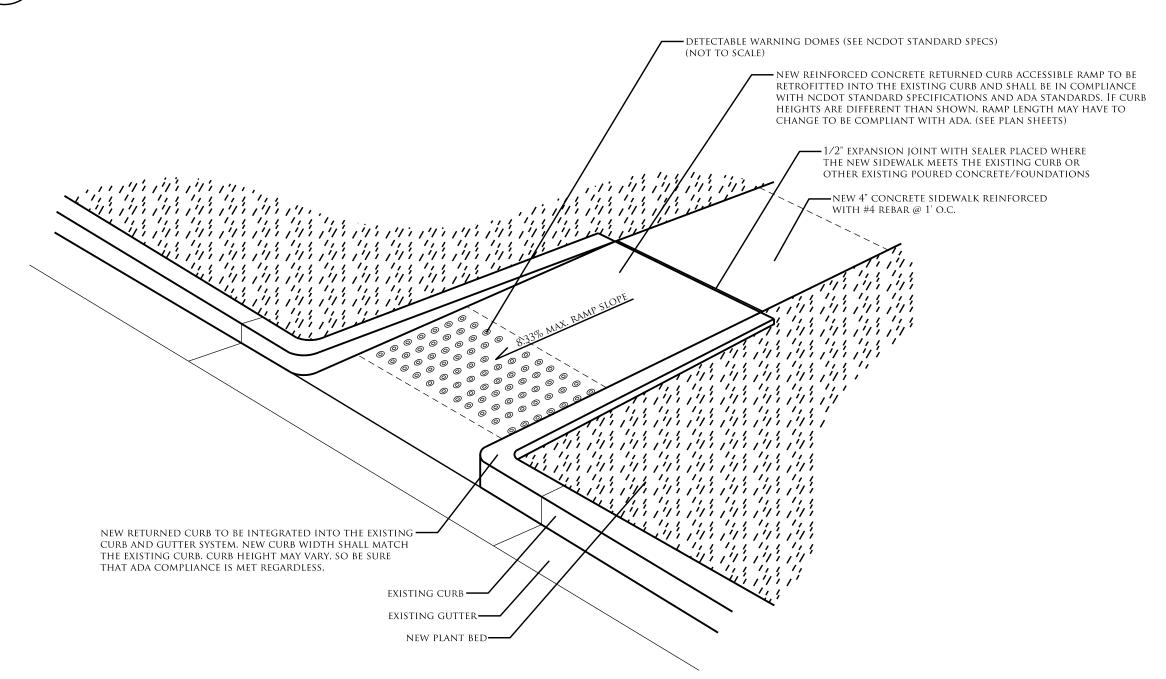




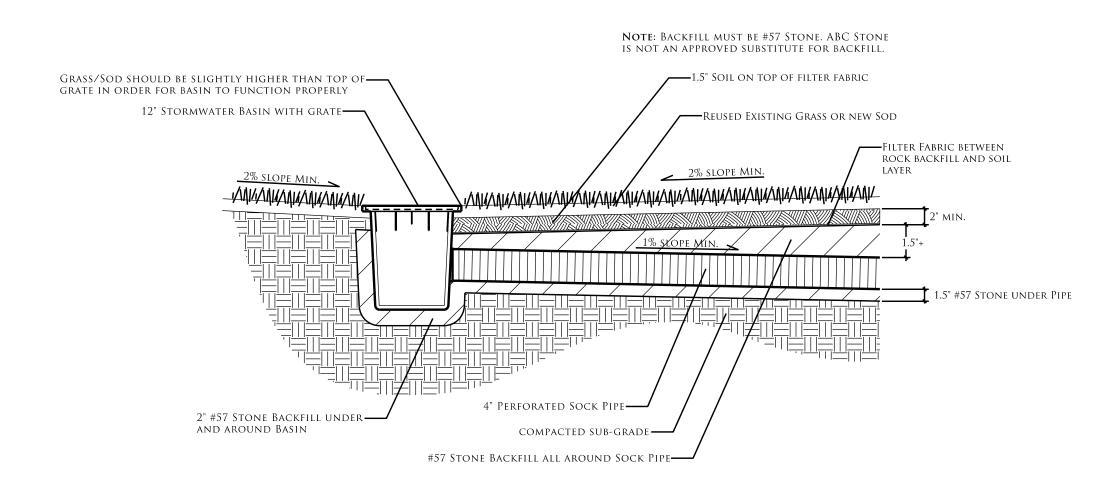




#### RETURNED CURB ACCESSIBLE RAMP PERSPECTIVE









NCDOT - ROADSIDE ENVIRONMENTAL UNIT LANDSCAPE DESIGN & DEVELOPMENT

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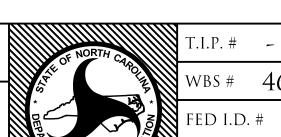
NORTHAMPTON WELCOME CENTER NORTHAMPTON COUNTY

WBS #: 46305.3.58

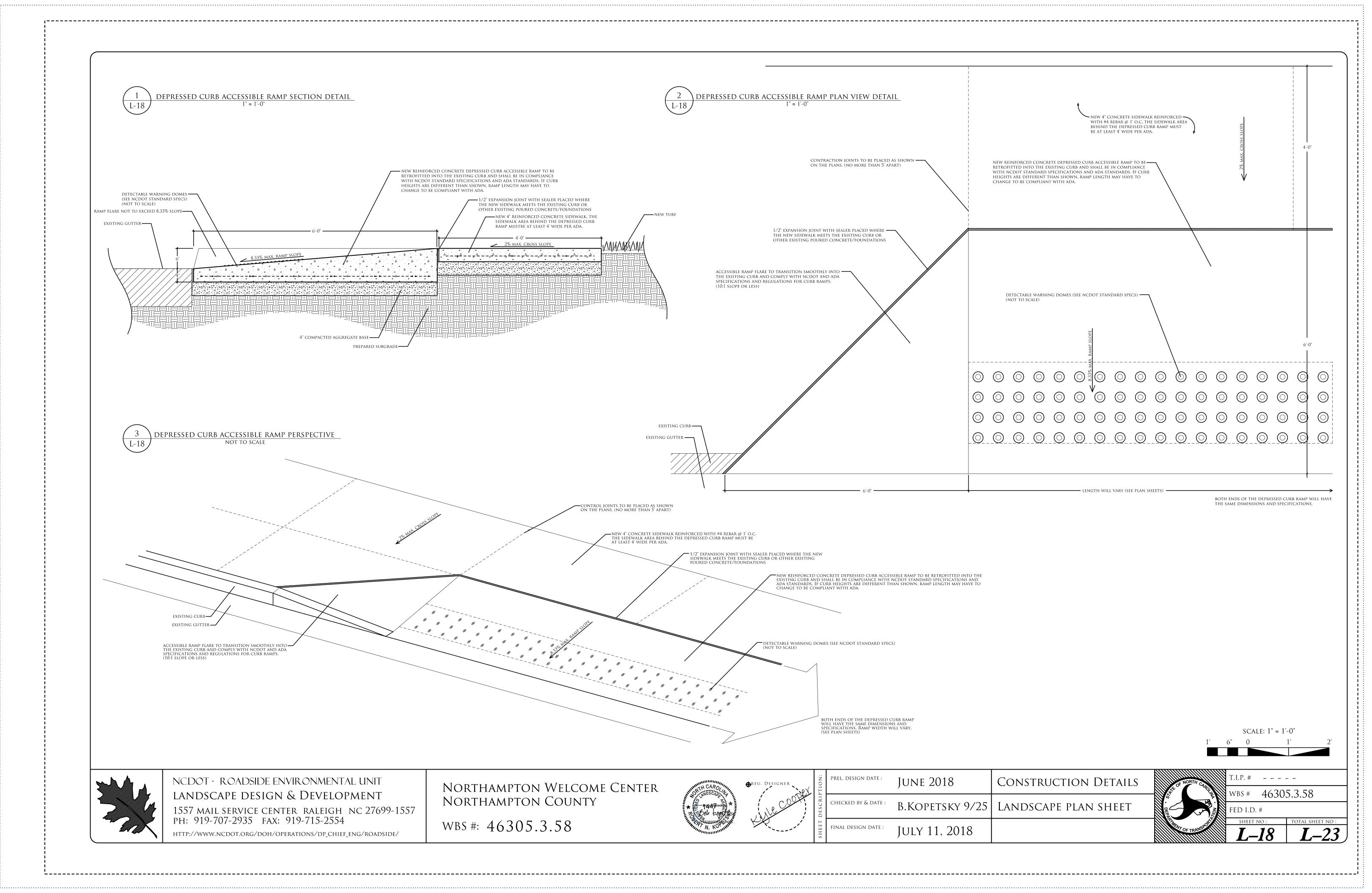


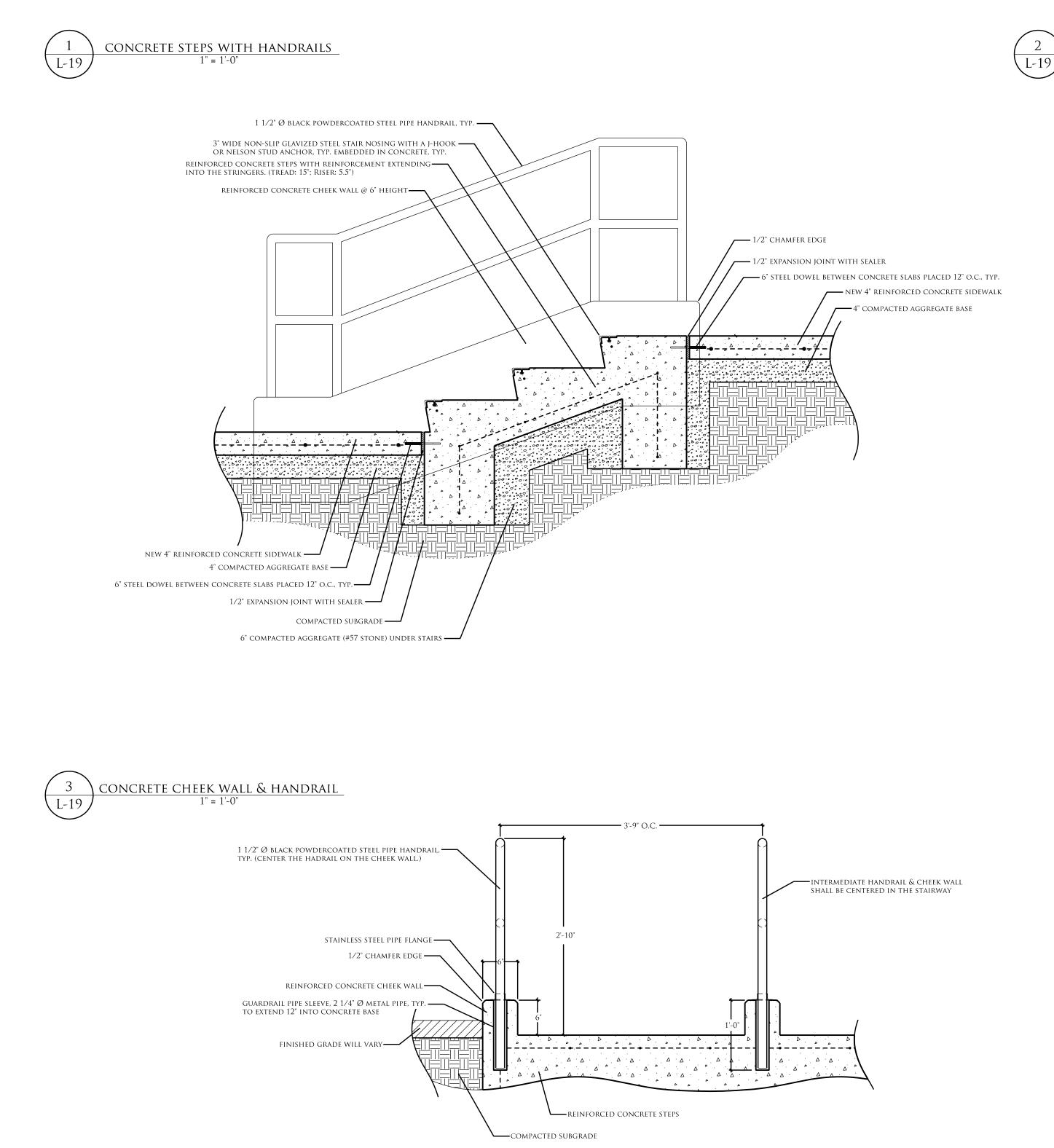


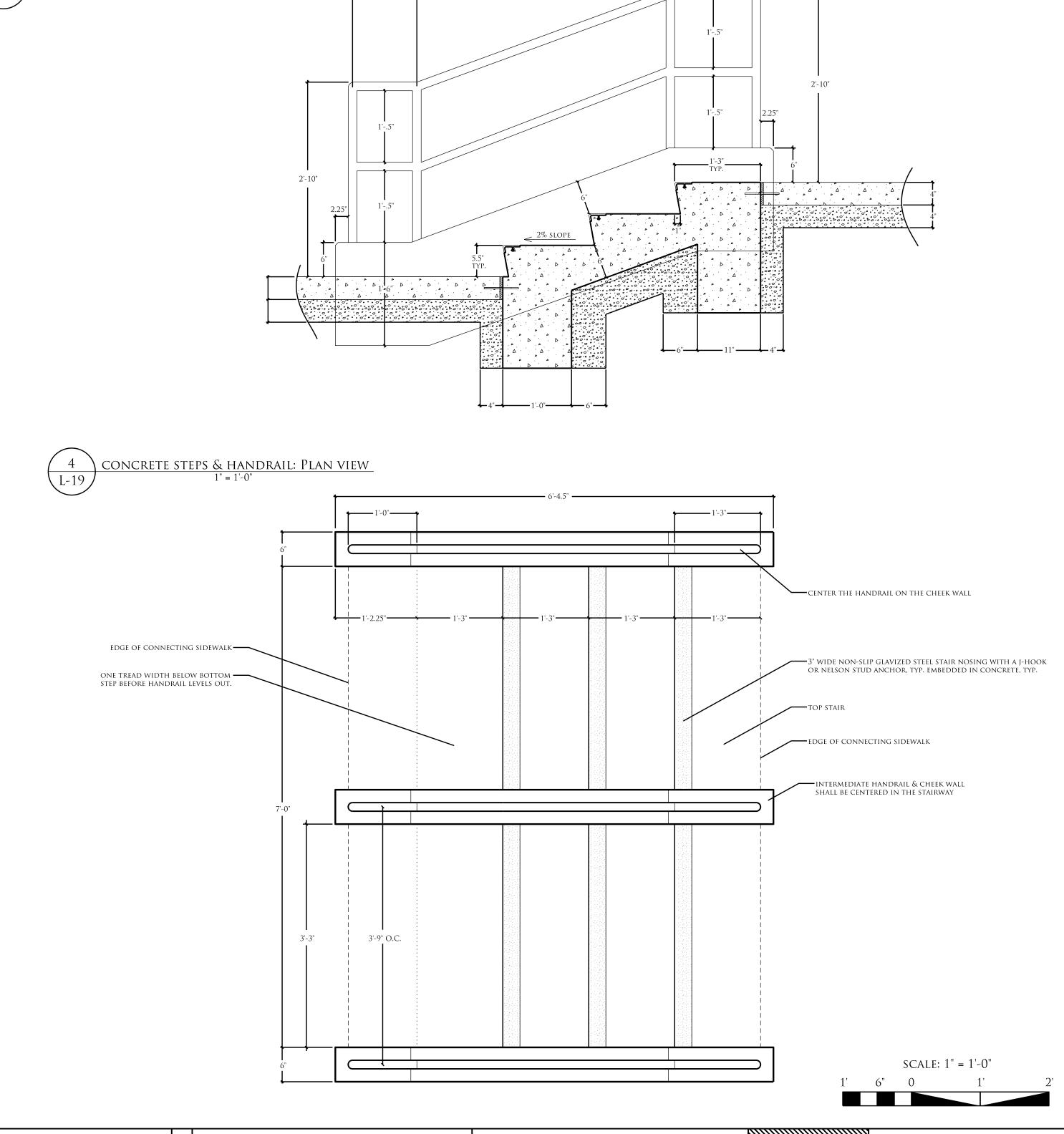
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		FINAL DESIGN DATE :	July 11, 2018	



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NORTHAMPTON WELCOME CENTER NORTHAMPTON COUNTY

WBS #: 46305.3.58



concrete steps with handrail Dimensions

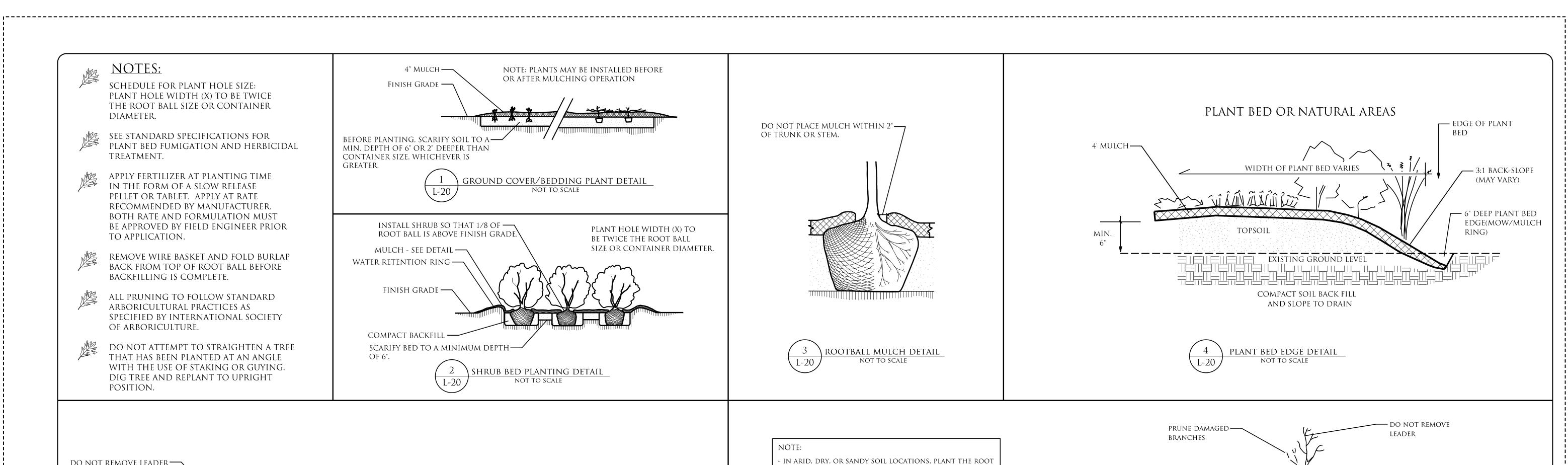


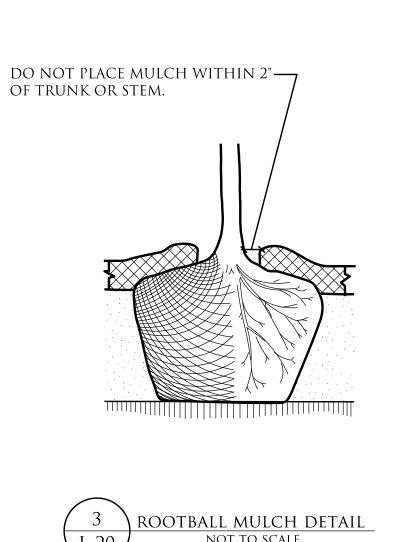
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HEET	FINAL DESIGN DATE :	July 11, 2018		

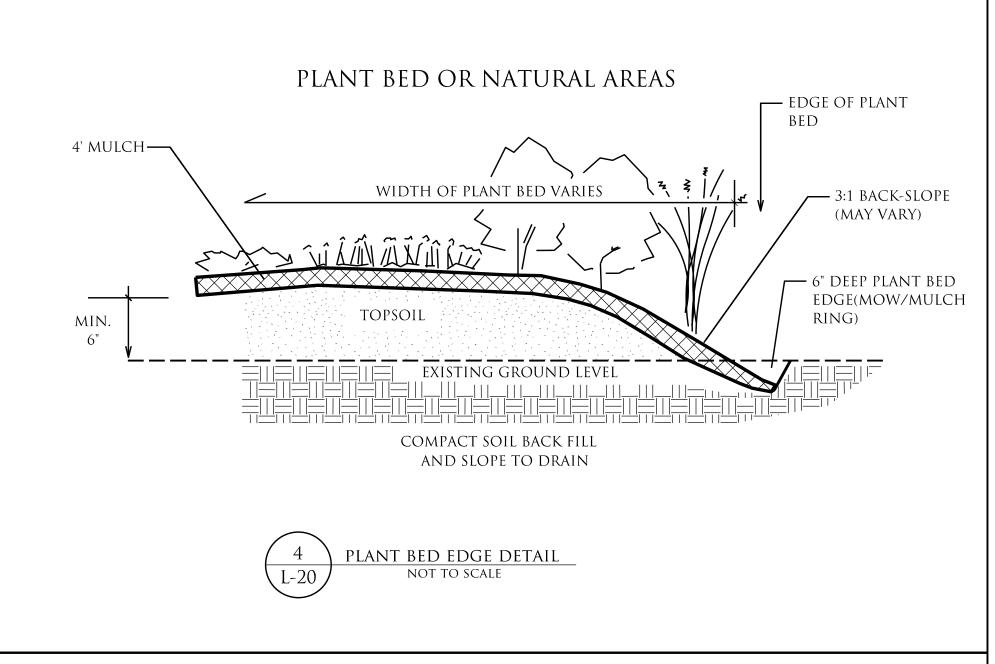


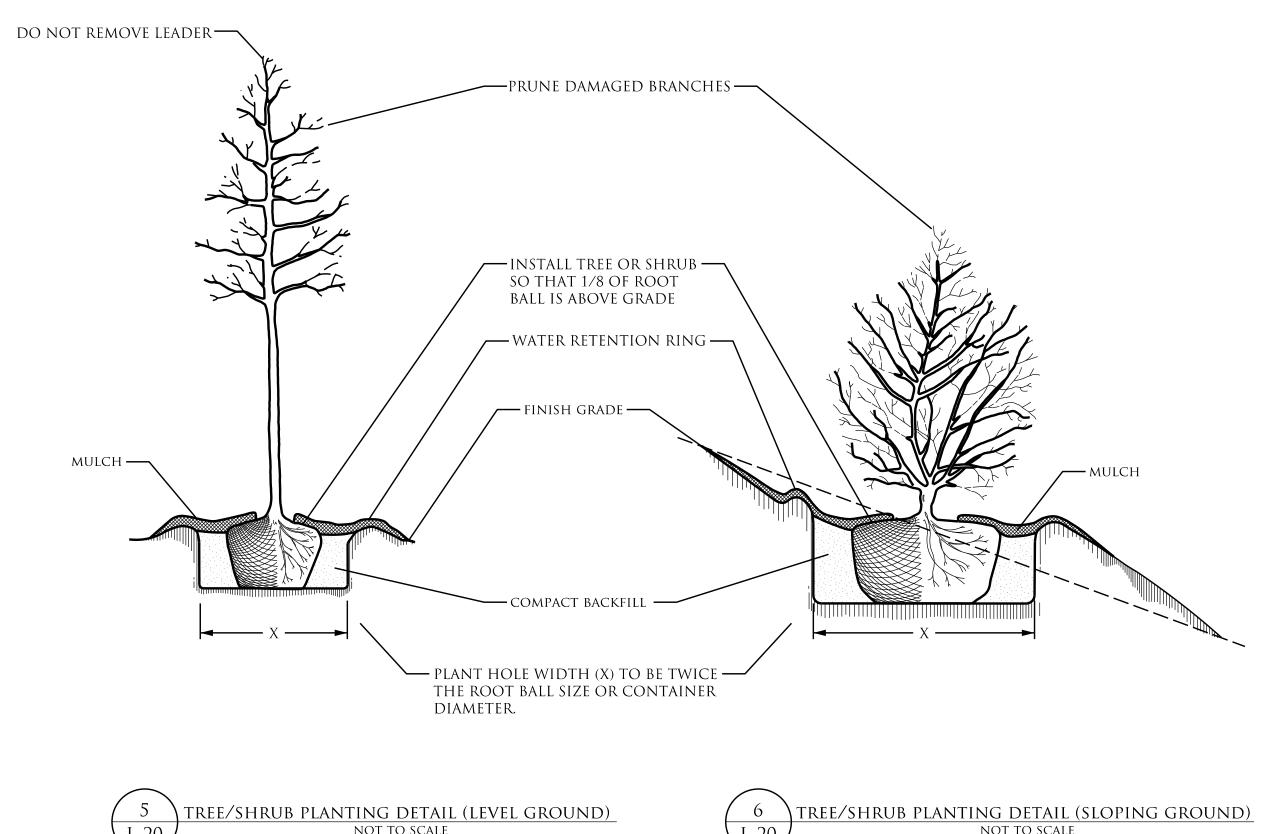
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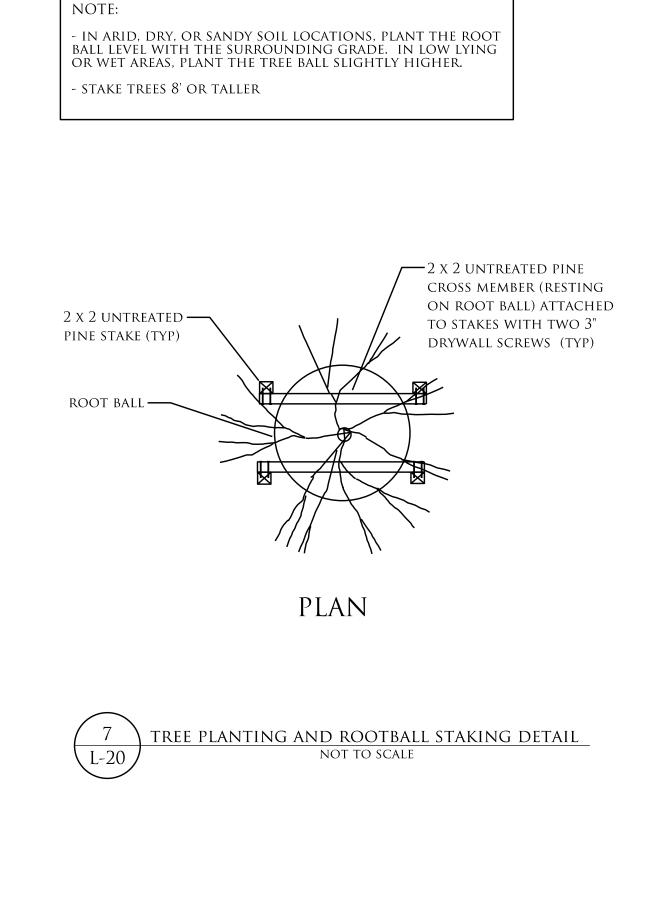
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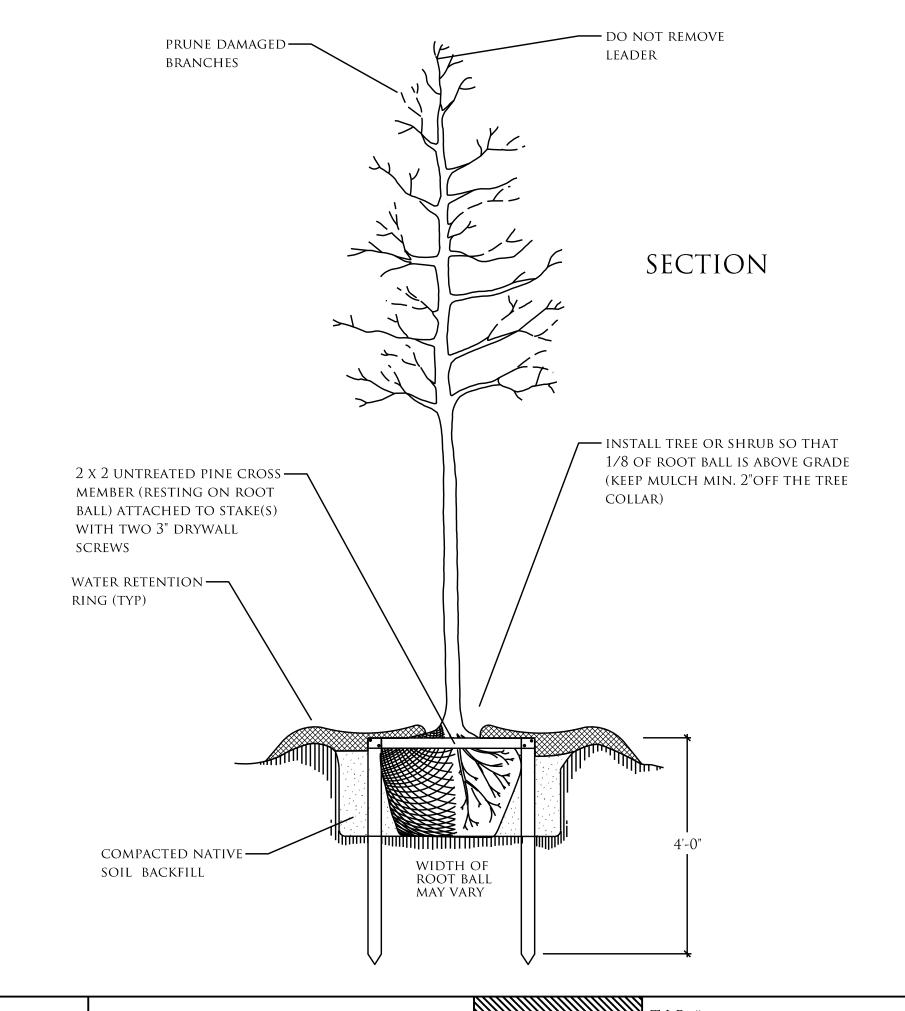


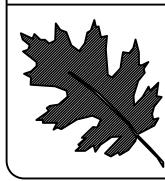












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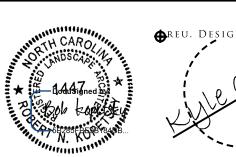
NORTHAMPTON WELCOME CENTER NORTHAMPTON COUNTY

PLANT HOLE WIDTH (X) TO

SIZE OR CONTAINER DIAMETER.

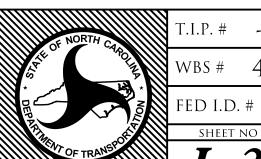
BE TWICE THE ROOT BALL

WBS #: 46305.3.58

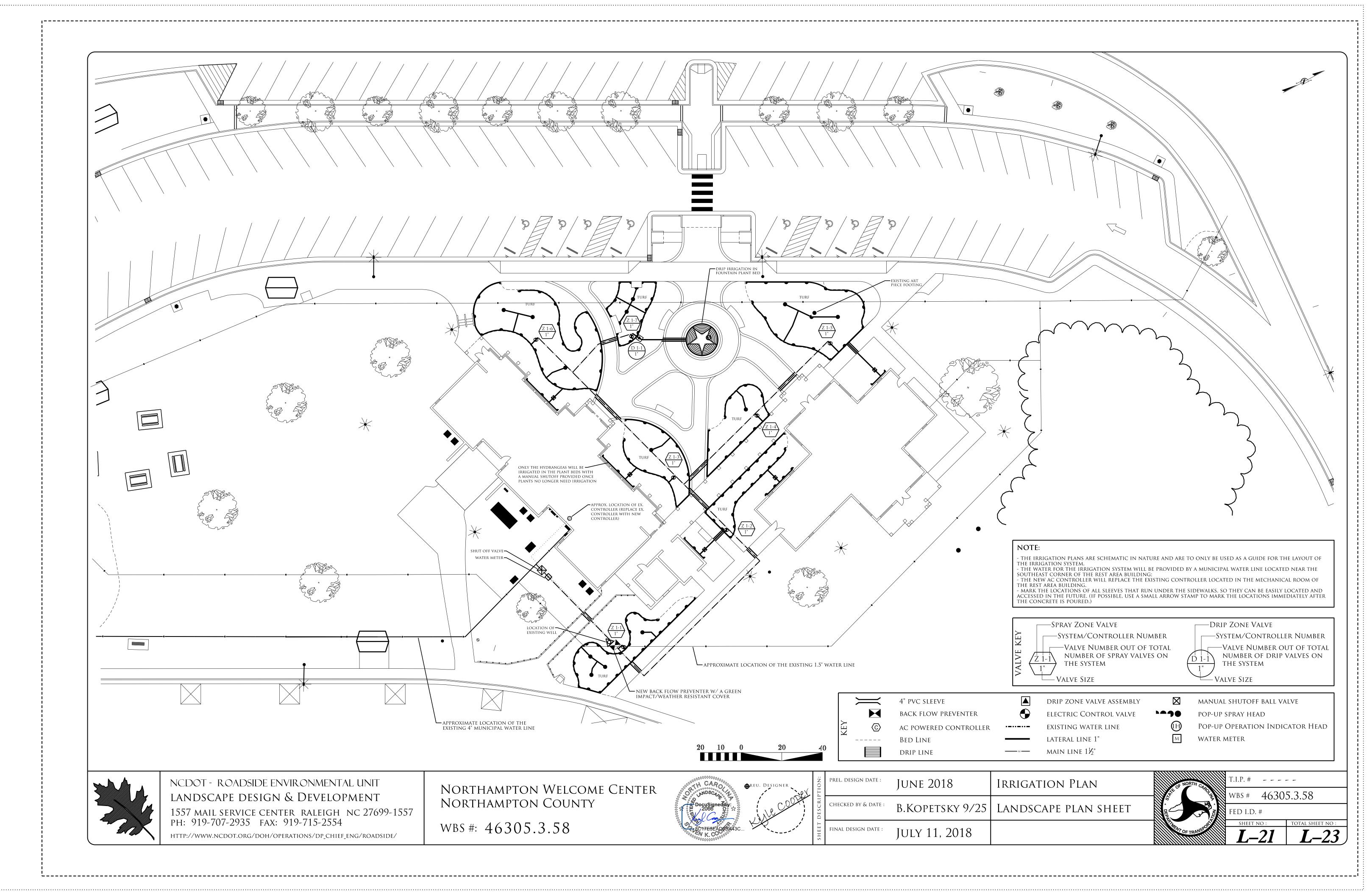




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5 H E E I	FINAL DESIGN DATE :	July 11, 2018		



VBS # 46305.3.58



#### IRRIGATION NOTES & LEGEND

\*IRRIGATION CONTRACTOR MUST BE LICENSED BY THE NCICLB UNDER CHAPTER (2008-177, S.1; 2013-383, S.3). \*ALL MATERIALS MAY BE OF COMPARABLE MANUFACTURE AND PERFORMANCE TO THE BRAND LISTED.

#### **GENERAL NOTES**

- THE IRRIGATION DESIGN PROVIDED IN THE PLANS IS SCHEMATIC IN NATURE, AND THE IRRIGATION CONTRACTOR MAY BE REQUIRED TO MAKE MINOR ADJUSTMENTS IN THE FIELD AS NECESSARY. THESE ADJUSTMENTS SHALL BE MADE AT NO ADDITIONAL COST TO THE OWNER AND SHALL BE MADE ONLY AFTER NOTIFICATION IS MADE TO THE OWNER (NCDOT).
- THE CONTRACTOR(S) SHALL FAMILIARIZE THEMSELVES WITH THE SITE SO THAT THEY ARE AWARE OF ANY SPECIAL CONDITIONS THAT MAY EXIST THAT COULD AFFECT THEIR BID PROPOSAL AND SHALL HEREAFTER BE RESPONSIBLE FOR ALL COST INCURRED BY THEMSELVES IN RELATION TO THE INSTALLATION.
- PLACE VALVES & BOXES IN PLANT BEDS WHERE-EVER POSSIBLE.
- THE CONTRACTOR IS TO MINIMIZE DISTURBANCE IN SOD AREAS (CUT AND REPLACE SOD WHEN NECESSARY).
- Place pressure reducing valves in discreet locations.
- ALL IRRIGATION PRODUCTS ARE TO BE HUNTER, RAINBIRD, OR TORO (AS APPROVED BY THE DIVISION ROADSIDE ENVIRONMENTAL ENGINEER).
- IF THERE IS AN EXISTING SYSTEM IN PLACE, BE SURE TO USE IRRIGATION HEADS THAT ARE CONSISTENT WITH THE EXISTING SYSTEM.
- The contractor is responsible for providing 'as built' plans TO THE OWNER (NCDOT) AT THE TIME OF PROJECT APPROVAL. THE PLANS SHALL BE CLEAR, CONCISE, AND SHOW ALL ELEMENTS OF THE IRRIGATION SYSTEM, THE LOCATION OF ALL EQUIPMENT, IRRIGATION LINES, NUMBERED ZONES, CONTROLLER(S), HEADS AND VALVES.

#### ESTIMATED IRRIGATION QUANTITIES

METER LOCATIONS - 1 BACKFLOW PREVENTERS - 1 AC POWERED CONTROLLER - 1 Spray zones Valves - 7 DRIP ZONE VALVES - 1 Main Line Pipe - 396 lf LATERAL PIPE - 1306 LF SLEEVE PIPE - 100 LF DRIP LINE HEADER PIPE - 76 LF DRIP LINE PIPE - 213 LF DRIP SYSTEM OPERATION INDICATOR HEADS - 1 SPRAY HEADS - 152 6' R - 78 10' R - 74

QUANTITIES ARE ESTIMATED BASED ON DESIGN DRAWINGS. REFER TO PLANS FOR ANY DISCREPANCIES. PLANS TAKE PRIORITY OVER THESE ESTIMATED QUANTITIES. ESTIMATED QUANTITIES DO NOT COVER ALL MATERIALS NECESSARY FOR INSTALLATION. QUANTITIES MAY BE ADJUSTED SLIGHTLY DUE TO SITE CONDITIONS, SPECIFIC IRRIGATION EQUIPMENT AND IMPLEMENTATION, OR AS DIRECTED BY THE NCDOT Engineer.

#### AC POWERED CONTROLLER WITH TIMER

- (c) Controller may be of comparable manufacture and performance TO THE BRAND NAMED.
  - -The Controller shall be a Hunter, Rainbird, or toro Modular UNIT WITH AT LEAST 15 AVAILABLE ZONES. LOCATION MUST BE APPROVED BY THE NCDOT ENVIRONMENTAL ROADSIDE ENGINEER.
  - ALL 120 VAC WIRING SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE ELECTRICAL CODE REQUIREMENTS.
  - The Contractor shall install a wired Hunter, Rainbird, or toro RAIN SENSOR THAT IS COMPATIBLE WITH THE MAKE AND MODEL OF THE CONTROLLER. THE RAIN SENSOR MOUNT IS TO BE PAINTED A DARK HUNTER GREEN IN ORDER TO BLEND INTO THE LANDSCAPE

#### **BACKFLOW PREVENTION**

- The reduced pressure backflow preventer assembly shall be the RESPONSIBILITY OF THE IRRIGATION CONTRACTOR. THE BACKFLOW SHALL BE 1.5" IN SIZE. THE BACKFLOW ASSEMBLY SHALL BE INSTALLED DOWNSTREAM OF THE IRRIGATION METER. THE UNIT MUST BE INSTALLED IN ACCORDANCE WITH ALL LOCAL AND STATE CODE REQUIREMENTS AND SHALL HAVE AN APPROVED COVER.

#### CONTROLLER WIRING

- ALL CONTROL WIRING SHALL BE SINGLE STRAND COPPER WIRE WITH POLYETHYLENE PE DIRECT BURIAL INSULATION. VALVE "COMMON" WIRES SHALL HAVE WHITE INSULATION WHILE VALVE "HOT" WIRES SHALL HAVE RED INSULATION. BOTH THE "COMMON" AND "HOT" WIRES SHALL BE #14 AWG. VALVE WIRING SHALL FOLLOW MAINLINE PIPING WHERE FEASIBLE. ALL WIRING SHALL BE INSTALLED IN ACCORDANCE WITH LOCAL CODE REQUIREMENTS.
- WIRE SPLICES SHALL BE KEPT TO AN ABSOLUTE MINIMUM. WHERE MAIOR CONCENTRATIONS OF SPLICES ARE NECESSARY, THEY SHALL BE PLACED IN A APPROVED VALVE BOX WITH #910-2 COVER INSTALLED AT GRADE LEVEL. SPLICES AT VALVE LOCATIONS SHALL BE MADE INSIDE OF THE VALVE BOX. ALL SPLICE LOCATIONS SHALL BE NOTED ON THE AS BUILT PLAN.
- Wire runs shall be installed with enough slack and/or EXPANSION LOOPS TO PREVENT EXCESSIVE STRAIN DUE TO THERMAL CONTRACTION.
- ALL WIRE SPLICES SHALL BE MADE USING UL APPROVED DIRECT BURIAL CONNECTORS AND WATERPROOF MATERIALS. ALL ELECTRICAL WORK SHALL BE INSTALLED ACCORDING TO CODE.

#### DRIP IRRIGATION

- Drip irrigation is to be 3/4" Netafim . Rainbird, or Orbit TUBING WITH EMITTERS SPACED AT 9" INTERVALS FOR SMALLER PLANTS & 12" INTERVALS FOR LARGER PLANTS AT 1 GPM. AN APPROVED INLINE EMITTER DRIP LINE IS TO BE INSTALLED UNDER MULCH IN LANDSCAPE AREAS AS SHOWN ON THE IRRIGATION PLAN. (INSTALL DRIP LINE BEFORE MULCH IS INSTALLED.)
- Drip Valve Assembly, which includes a Hunter, Rainbird, or TORO REMOTE CONTROL VALVE WITH FLOW CONTROL FEATURE, A MESH filter , and a pressure regulator. The flow control valves shall BE NOTED ON BOXES WITH LIDS MOUNTED AT GRADE LEVEL.
  - each system shall have a class 200 1 1/2" supply header and a FLUSH/EXHAUST HEADER TO MAINTAIN EVEN FLOW THROUGHOUT THE SYSTEM. LARGER SYSTEMS MAY REQUIRE CENTER FEED SUPPLY HEADERS.
  - A MINIMUM OF 2 EMITTERS PER SHRUB AND 3 EMITTERS PER TREE SHALL BE INSTALLED.
  - ALL DRIP ZONES SHOULD HAVE A DRIP SYSTEM OPERATION INDICATOR INSTALLED WITHIN THEM SO TECHNICIANS CAN OBSERVE WHETHER SYSTEMS ARE FUNCTIONING PROPERLY. IF POSSIBLE, PLACE TOWARDS THE END OF THE DRIP LINE SYSTEM IN A VISIBLE AREA OR AS DIRECTED BY THE ENGINEER.

#### HEADS

- ▲ HUNTER, RAINBIRD, OR TORO POP-UP SPRAY HEAD FITTED WITH ADJUSTABLE NOZZLES OR 90°, 180°, 270°, AND 360° FIXED ARC NOZZLES WITH THE FOLLOWING RADII: 6' & 10'.
  - All Heads shall have a 6"-12" pop-up stroke, if installed with LESS THAN 1/3 OF THE SPRINKLER BODY EXPOSED ABOVE GRADE, IT SHALL BE INSTALLED ON POLYETHYLENE FLEX SWING JOINT POLY PIPE FITTED WITH ELBOWS (3/8" INSERT BY 1/2" M.P.T. AND/OR 3/8" INSERT BY 3/4" M.P.T.)
  - -IF GREATER THAN 1/3 OF THE SPRINKLER BODY IS EXPOSED, THEN THE 6"-12" POP-UP HEAD SHALL BE MOUNTED ON A SCHEDULE 40 PVC PIPE RISER AS DESCRIBED BELOW IN RELATION TO MOUNTING SHRUB HEAD MODELS. IN MOUNTING 6"-12" POP-UP HEADS ON SHRUB TYPE RISERS, CARE SHALL BE TAKEN TO INSTALL THE HEAD IN SUCH A MANNER THAT THE SURROUNDING PLANT MATERIAL (PLANNED OR EXISTING) WILL HIDE THE BODY OF THE SPRINKLER.
  - ALL POP-UP IRRIGATION HEADS DESIGNED ADJACENT TO CURBS OR PAVEMENT SHALL BE INSTALLED WITH A CLEARANCE OF 1 1/2" FROM THE EDGES OF ALL PAVED AREAS TO PROVIDE FOR EDGING AND MAINTENANCE OPERATIONS. HEADS INSTALLED ON SHRUB RISERS OR WITH THE TOP OF The head more than  $1 \frac{1}{2}$  above the grade shall be installed WITH A MINIMUM 6" CLEARANCE FROM PAVED AREAS.
  - ALL THREADED PIPE CONNECTIONS SHALL BE ASSEMBLED USING TEFLON THREAD SEALING TAPE.

#### **ELECTRIC CONTROL VALVE**

- Valves shall be Hunter, Rainbird, or toro.

- LOCATION OF AC POWERED ELECTRIC REMOTE CONTROL VALVE WITH FLOW CONTROL FEATURE

- ALL REMOTE CONTROL VALVES SHALL BE INSTALLED IN CARSON VALVE BOXES WITH LIDS MOUNTED AT GRADE LEVEL. SINGLE VALVES MAY BE INSTALLED IN A CARSON MODEL #910-1 VALVE BOX WITH COVER, WHILE MULTIPLE VALVES (UP TO, 2 - 1" VALVES OR 1 - 1 1/2") SHALL BE INSTALLED IN CARSON MODEL #1419-1 BOX WITH #1419-2 COVER.

#### <u>PIPE</u>

- PR 200 PVC LATERAL PIPING

-MINIMUM DEPTH OF COVER OVER LATERAL PIPING TO BE 12". LATERAL PIPE SIZING SCHEDULE AND SUMMATION OF GALLONAGE DEMAND ON A PARTICULAR BRANCH OF PIPE WITHIN A CONTROL SECTION SHALL BE DETERMINED BY USING THE GPM FOR A NOZZLE BASED ON A 50 PSI BASE OF HEAD PRESSURE AND FULL RADIUS AT THAT PRESSURE AS REPORTED IN THE MANUFACTURER'S PRODUCT CATALOG. PIPE SIZES FOR THE LATERAL LINES SHALL BE AS FOLLOWS:

- FOR 0 TO 15 GPM ACCUMULATED FLOW USE 3/4" PR 200 PVC PIPE.
- FOR 15 UP TO 35 GPM USE 1" PVC PIPE.
- ALLOW FOR FRICTION LOSS.
- ———— PR 200 MAIN LINE PIPING.
  - Size of Pipe to be a minimum of 1 1/2"
  - Depth of Cover of Mainline Piping to be 18"

- Piping shall be PR 200 solvent weld PVC pipe with schedule 40 PVC SOLVENT WELD FITTINGS UNLESS OTHERWISE NOTED.

- THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO AVOID DAMAGING EXISTING PLANTINGS AND THEIR ROOTS DURING THE INSTALLATION OF THE IRRIGATION SYSTEM AND SHALL COORDINATE THEIR EFFORTS WITH THE LANDSCAPE CONTRACTOR TO OPTIMIZE THE EFFICIENCY AND THE AESTHETIC QUALITY OF THE INSTALLATION.

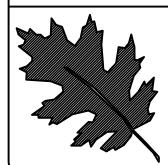
#### **SLEEVES**

· Sleeves shall be 4" PVC. The Irrigation contractor shall COORDINATE WITH THE LANDSCAPE CONTRACTOR TO INSURE PROPER INSTALLATION OF THE IRRIGATION SYSTEM WITH THE LANDSCAPE AND HARDSCAPE.

#### M WATER SUPPLY/METER

- The meter is 1.5" in size. Since the water supply for the SYSTEM WILL BE POTABLE WATER, THE CONTRACTOR WILL BE REQUIRED TO INSTALL A BACKFLOW PREVENTION DEVICE WHICH WILL BE LOCATED DOWNSTREAM OF THE IRRIGATION METER.

- This irrigation system shall be capable of delivering 33 GPM minimum with one control station operating at a time at 60 psi AT THE BASE OF THE HEAD FOR OPTIMUM PERFORMANCE OF THE IRRIGATION SYSTEM.



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NORTHAMPTON WELCOME CENTER NORTHAMPTON COUNTY

WBS #: 46305.3.58



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June 2018

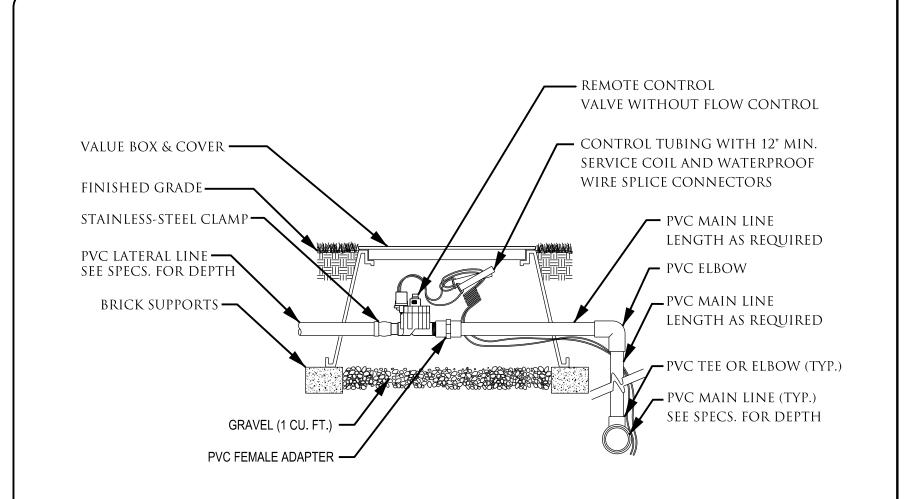
JULY 11, 2018

B.KOPETSKY 9/25 | PLANT BED IRRIGATION

Irrigation Plan

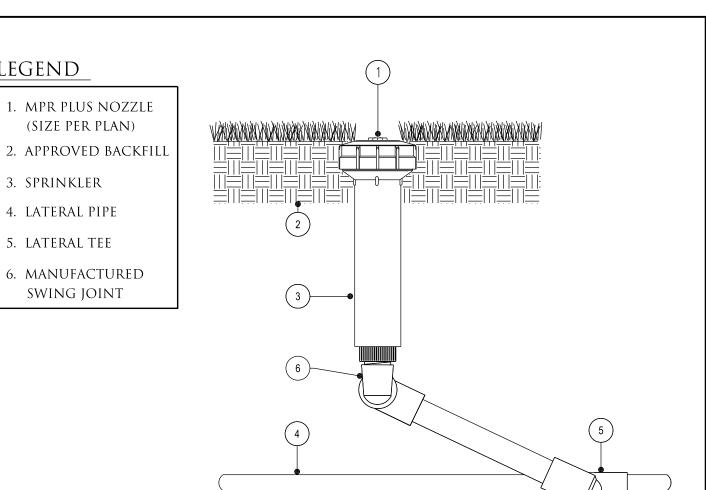
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TOTAL SHEET NO :



1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS. 2. DO NOT SCALE DRAWINGS.



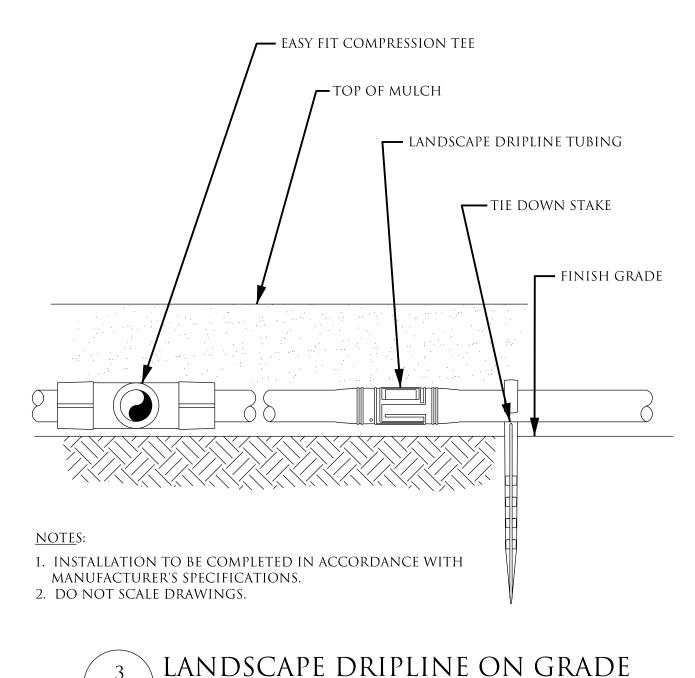


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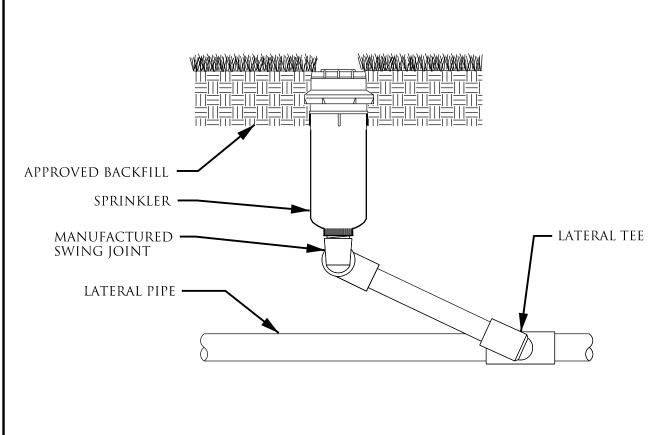
LEGEND

- 1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS.
- 2. DO NOT SCALE DRAWINGS. 3. INSTALL SPRINKLERHEAD AT FINISHED GRADE



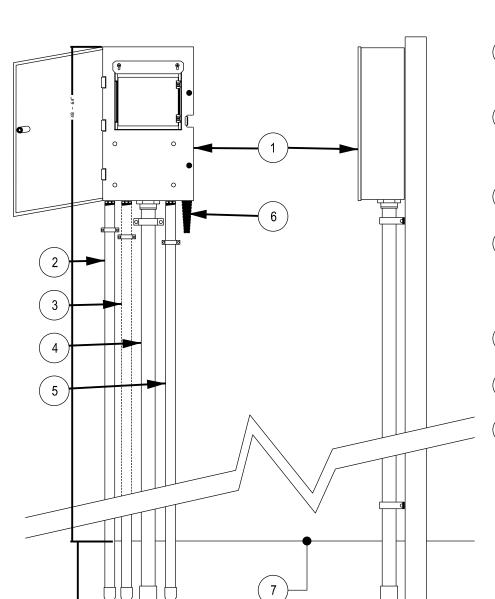


POTABLE SYSTEM (NOT TO SCALE)



- 1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
- 2. DO NOT SCALE DRAWINGS.
- 3. INSTALL SPRINKLER AT FINISHED GRADE.





1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS.

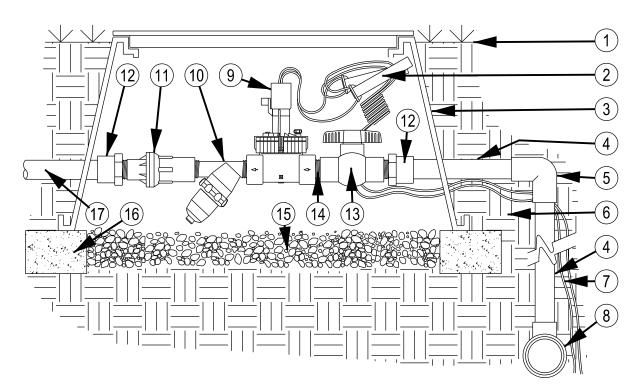
CONTROLLER WALL MOUNT

/ WALL-MOUNT CONTROLLER, METAL (NOT TO SCALE)

2. THE NEW CONTROLLER SHALL REPLACE THE EXISTING IRRIGATION CONTROLLER IN THE

MECHANICAL ROOM OF THE REST AREA BUILDING.

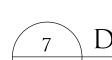
- SMALL METAL CABINET WALL MOUNT IRRIGATION CONTROLLER SEE PLAN FOR NUMBER OF STATIONS (VALVES).
- 1/2" CONDUIT FOR ELECTRICAL POWER PER LOCAL AND NATIONAL ELECTRICAL CODES. OPTIONAL 3/4" KNOCK-OUT IF LARGER CONDUITS ARE USED.
- (3) OPTINOAL 1/2" KNOCK-OUT FOR RAIN SENSOR WIRE.
- AND MV OR PUMP START WIRES. OPTIONAL 3" KNOCK-OUT IF LARGER WIRES ARE USED. SECURE TO WALL WITH APPROPRIATE PIPE CLAMPS.
- (5) 3/4" KNOCKOUT FOR EARTH GROUND WIRES.
- (6) MOUNTED NARROWBAND ANTENNA
- (7) FINISHED GRADE



#### LEGEND

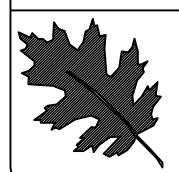
- 1. FINISHED GRADE
- 2. WATERPROOF DRY SPLICE CONNECTORS
- 3. 12" VALVE BOX WITH COVER
- 4. PVC LATERAL LINE
- 5. SCH 40 PVC 90° ELL JOINT
- 6. NATIVE SOIL PER SPECIFICATIONS.
- 7. CONTROL WIRES TO CONTROLLER.
- 8. PVC MAINLINE FITTING. 9. REMOTE CONTROL VALVE
- 10. MESH SCREEN FILTER WITH FLUSH CAP
- 11. ADJUSTABLE PRESSURE REGULATOR
- 12. PVC SCH 40 FEMALE ADAPTER
- 13. manual valve
- 14. PVC SCH 40 TRANSITION NIPPLE
- 15. WASHED GRAVEL SUMP (MIN. 3")
- 16. BRICK SUPPORTS 17. LATERAL LINE TO DRIP SYSTEM.

1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS. 2. DO NOT SCALE DRAWINGS.



## DRIP ZONE ASSEMBLY

1-23 / VALVE ASSEMBLY (NOT TO SCALE)



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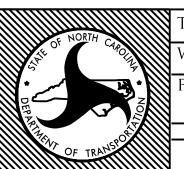
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WBS #: 46305.3.58





				25 VALVE ASSEMBLI (NOT TO SCALE)
X	DESCRIPTION:	PREL. DESIGN DATE :	June 2018	Irrigation Plan
		CHECKED BY & DATE :	B.KOPETSKY 9/25	Plant Bed Irrigati
	неет і	FINAL DESIGN DATE :	July 11, 2018	



46305.3.58