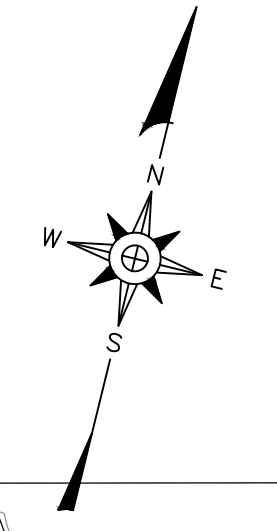




- LEGEND**
- 150 — EXISTING 10' CONTOUR (SEE REFERENCE 1)
  - - - - - EXISTING 2' CONTOUR
  - - - - - APPROXIMATE PROPERTY LINE
  - 50-FOOT BUFFER FROM PROPERTY LINE
  - - - - - APPROXIMATE EASEMENT OR RIGHT OF WAY
  - - - - - TRIBUTARY (SEE REFERENCE 2)
  - ..... 50' VOLUNTARY TRIBUTARY BUFFER
  - OH — OVERHEAD UTILITY LINE
  - ~~~~~ EXISTING TREE LINE
  - UTP ● UTILITY POLE
  - APPROXIMATE WETLAND BOUNDARY (SEE REFERENCE 2)
  - ALL WEATHER ACCESS ROAD

- NOTES**
1. THE SITE IS NOT LOCATED WITHIN THE 100-YEAR FLOODPLAIN.
  2. THERE ARE NO WELLS WITHIN 100 FEET OF THE SITE.
  3. THERE ARE NO PERENNIAL STREAMS OR RIVERS WITHIN 50 FEET OF COMPOST OPERATIONS.
  4. DEMOLITION DEBRIS ASSUMED BETWEEN 1976 AND 1985 AS A RESULT OF COMMUNITY DEVELOPMENT PROGRAM DB 3056 PG 670 (NO MINING MAY OCCUR BELOW THESE EXISTING GRADES).
  5. THE SITE IS REQUIRED TO OBTAIN AN NPDES CONSTRUCTION STORMWATER CERTIFICATE OF COVERAGE (COC) PRIOR TO INITIATING THE PROJECT.
  6. THE SITE IS REQUIRED TO FILE A NOTICE OF TERMINATION FOR THE COC AFTER THE PROJECT IS FINISHED.

- REFERENCES**
1. TOPOGRAPHY FROM AERIAL SURVEY DATED OCTOBER 5, 2023 BY SMITH GARDNER INC.
  2. PERIMETER BOUNDARY INFORMATION PROVIDED BY JOYNER KEENEY, DATED APRIL 19, 2022.
  3. WETLAND AND TRIBUTARY LOCATIONS BASED ON PRELIMINARY SITE ASSESSMENT BY CAROLINA ECOSYSTEMS.
  4. PREVIOUS LIMITS OF DISTURBANCE AND SEDIMENT TRAP LOCATIONS FROM EROSION AND SEDIMENT CONTROL PLAN PROVIDED BY CDM SMITH.



PREPARED FOR:

**CUMBERLAND COUNTY  
SOLID WASTE  
MANAGEMENT DEPARTMENT  
FAYETTEVILLE,  
NORTH CAROLINA**

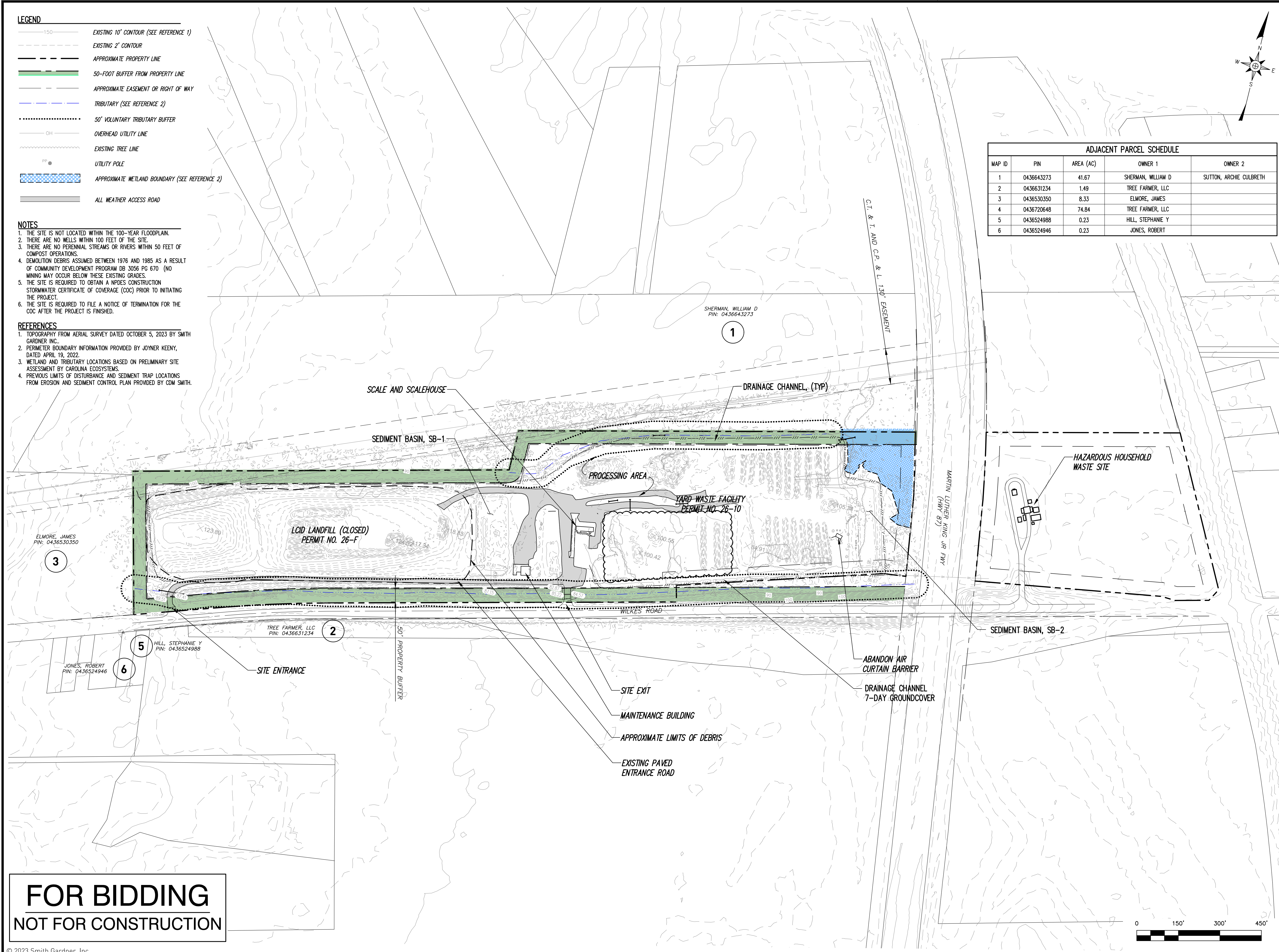
PREPARED BY: NC LIC. NO. F-1370 (ENGINEERING)  
SC COA NO. C01488

**SMITH+  
GARDNER  
ENGINEERS**

14 N. Boylan Avenue, Raleigh NC 27603 | 919.828.0577  
1526 Richland St., Columbia SC 29201

**ADJACENT PARCEL SCHEDULE**

MAP ID	PIN	AREA (AC)	OWNER 1	OWNER 2
1	0436643273	41.67	SHERMAN, WILLIAM D	SUTTON, ARCHIE CULBRETH
2	0436631234	1.49	TREE FARMER, LLC	
3	0436530350	8.33	ELMORE, JAMES	
4	0436720648	74.84	TREE FARMER, LLC	
5	0436524988	0.23	HILL, STEPHANIE Y	
6	0436524946	0.23	JONES, ROBERT	



SEAL

SEAL

Signed by: **Stacey A. Smith**  
NORTH CAROLINA PROFESSIONAL ENGINEER  
SEAL  
023002  
ENGINEER  
STACEY A. SMITH 13/2024

REV.	DATE	DESCRIPTION
1	11/23	UPDATE TOPOGRAPHY ADD COMPOST AREA

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PROJECT TITLE:

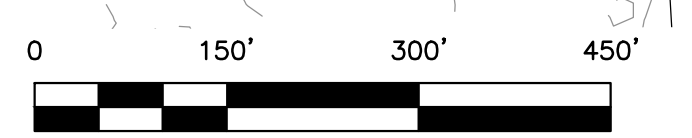
**WILKES ROAD  
YARD WASTE FACILITY**

DRAWING TITLE:

**EXISTING CONDITIONS**

DESIGNED: W.M.B.	PROJECT TITLE: CUMBERLAND 20-1
DRAWN: R.V.M.	SCALE: AS SHOWN
APPROVED: JCL	DATE: SEPT. 2022
FILENAME: CUMBERLAND-D0098	
SHEET NUMBER: 2	DRAWING NUMBER: S1

**FOR BIDDING  
NOT FOR CONSTRUCTION**







### LEGEND

	CONCRETE		NORTH ARROW		ELEVATION REFERENCE SHEET NO.		SPACE TAG
	STONE FILL		CENTERLINE		DRAWING NO.		ROOM NAME
	CONCRETE MASONRY		COLUMN CENTERLINE		ELEVATION REFERENCE		ROOM NO.
	BRICK		ELEVATION LEVEL		DRAWING NO.		ROOM INFO.
	STEEL		SPOT ELEVATION		SECTION REFERENCE		ROOM NAME
	ALUMINUM		REVISION AREA		DRAWING NO.		ROOM NO.
	PLYWOOD		REVISION NUMBER		DETAIL REFERENCE		DOOR TAG
	FINISH WOOD		CEILING ELEVATION		WINDOW TAG		WALL TAG
	GYPSUM WALLBOARD						
	EARTH						
	BATT. INSULATION						
	RIGID INSULATION						
	BLOCKING						

### ABBREVIATIONS

A.B.	ANCHOR BOLT	E	EAST	INT.	INTERIOR	REQD.	REQUIRED
ACoust.	ACOUSTICAL	EA	EACH	J.B.	JOIST BEARING	RESL.	RESILIENT
ACT	ACOUSTICAL CEILING TILE	E.B.	EXPANSION BOLT	JT.	JOINT	REV.	REVISION
A.F.F.	ABOVE FINISH FLOOR	E.F.S.	EXTERIOR INSULATION FINISH SYSTEM	LAM.	LAMINATED	RM	ROOM
ALUM.	ALUMINUM	E.J.	EXPANSION JOINT	LF	LINEAR FEET	R.O.	ROUGH OPENING
APPROX.	APPROXIMATELY	EL	ELEVATION (FLOOR)	LG	LONG, LARGE	REQD.	REQUIREMENTS
ARCH.	ARCHITECT, ARCHITECTURAL	ELEV.	ELEVATION	LH	LONG LEG HORIZONTAL	RTU	ROOF TOP UNIT
BD.	BOARD	ELEC.	ELECTRICAL	LLV	LONG LEG VERTICAL	R.W.L.	RAIN WATER LEADER
BLDG.	BUILDING	EQ	EQUAL	L.P.	LOW POINT	SCHED.	SCHEDULE
BLK.	BLOCK	EQUIP.	EQUIPMENT	MAS.	MASONRY	S.F.	SQUARE FEET
BM.	BEAM	E/W	EACH WAY	MATL.	MATERIAL	SHT.	SHEET
B.O.S.	BOTTOM OF STEEL	EW	ELECTRIC WATER COOLER	MAX.	MAXIMUM	SIM	SIMILAR
BRG.	BEARING	EXIST.	EXISTING	MED.	MECHANICAL	S.M.S.	SHEET METAL SCREW
BS	BOTH SIDES	EXP.	EXPOSED, EXPANSION	MED.	MEDIUM	SPECS	SPECIFICATIONS
BTM	BOTTOM	EXT.	EXTERIOR	MFR.	MANUFACTURER	SQ.	SQUARE
BUR	BUILT-UP ROOF	F.D.	FLOOR DRAIN	MIN.	MINIMUM	S.S.	STAINLESS STEEL
C.I.	CAST IRON	F.E.	FIRE EXTINGUISHER	MISC.	MISCELLANEOUS	STD.	STANDARD
C.J.	CONTROL JOINT	F.F.E.	FINISH FLOOR ELEVATION	M.O.	MASONRY OPENING	STL.	STEEL
C.T.	CERAMIC TILE	F.O.	FACE OF	M.R.	MOISTURE-RESISTANT	STOR.	STORAGE
CAB.	CABINET	FIN.	FINISH	M.R.G.B.	MOISTURE-RESISTANT GYPSUM BOARD	STRUCT.	STRUCTURAL
CEM.	CEMENTITIOUS	FL.FLR.	FLOOR	MTD.	MOUNTED	SUSP.	SUSPENDED
CG	CORNER GUARD	FLUOR.	FLUORESCENT	MTL.	METAL	T	TREAD
CLR.	CLEAR	FDN.	FOUNDATION	N	NORTH	T/B	TOP & BOTTOM
CLNG.	CEILING	F.S.	FLOOR SINK	N.C.	NOT IN CONTRACT	TEL.	TELEPHONE
CMU	CONCRETE MASONRY UNIT	FTG.	FOOTING	NO. #	NUMBER	T/O	TOP OF
CO	CLEAN OUT	G.C.	GENERAL CONTRACTOR	NTS	NOT TO SCALE	T.O.M.	TOP OF MASONRY
COL	COLUMN	GA.	GAUGE	O.A.	OVERALL	T.O.S.	TOP OF STEEL
CONC.	CONCRETE	GALV.	GALVANIZED	O.F.D.	OVERFLOW DRAIN	TH	THICKNESS
CONST.	CONSTRUCTION	GEN.	GENERAL	OH	OVERHEAD	TYP.	TYPICAL
CONT.	CONTINUOUS	GL	GLASS/GLAZING	OD	OUT TO OUT	U.L.	UNDERWRITERS LABORATORY
CONTR.	CONTRACTOR	GW	GYPSUM WALLBOARD	O.C.	ON CENTER	U.O.N.	UNLESS OTHERWISE NOTED
CPT.	CARPET	GYP.	GYPSUM	O.D.	OUTSIDE DIAMETER	V	VOLT
CR	CARTRIDGE/CHAIRRAIL	H	HIGH	OPNG.	OPENING	VCT	VINYL COMPOSITION TILE
CSR	COUNTERSINK	HB	HOSE BIBB	OPP.	OPPOSITE	VERT.	VERTICAL
D	DEPTH	HZ	HANDICAPPED	P	PAINT	W	WEST, WIDTH, WASTE, WIRE
DBL.	DOUBLE	HDW	HARDWARE	P.	PIECE	W'	WITH
DEMO	DEMOLITION	H.M.	HOLLOW METAL	PL	PLATE	W.C.	WATER CLOSET
DET.	DETAIL	HORIZ.	HORIZONTAL	PLAS.	PLASTER, PLASTIC	WD.	WOOD
DI.	DIAMETER	H.P.	HIGH POINT	PLYWD.	PLYWOOD	WT	WEIGHT
DN	DOWN	HT	HEIGHT	PTD.	PAINTED	WH	WITHIN
DM	DIMENSION	HVAC	HEATING, VENTILATION & AIR CONDITIONING	QJAN	QUANTITY	W/	WITHIN
D.O.	DOOR OPENING	I.D.	INTERIOR DIAMETER	Q.T.	QUARRY TILE	W/O	WITHOUT
D.S.	DOOR SWING	INCL.	INCLUDE	R	RADIUS, RISER	WWF	WELDED WIRE FABRIC
DWG.	DRAWING	INSUL.	INSULATION	R.D.	ROOF DRAIN	X	EXISTING TO REMAIN
				REINF.	REINFORCING	XTR	EXISTING TO BE REMOVED

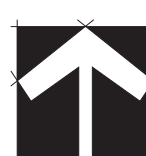
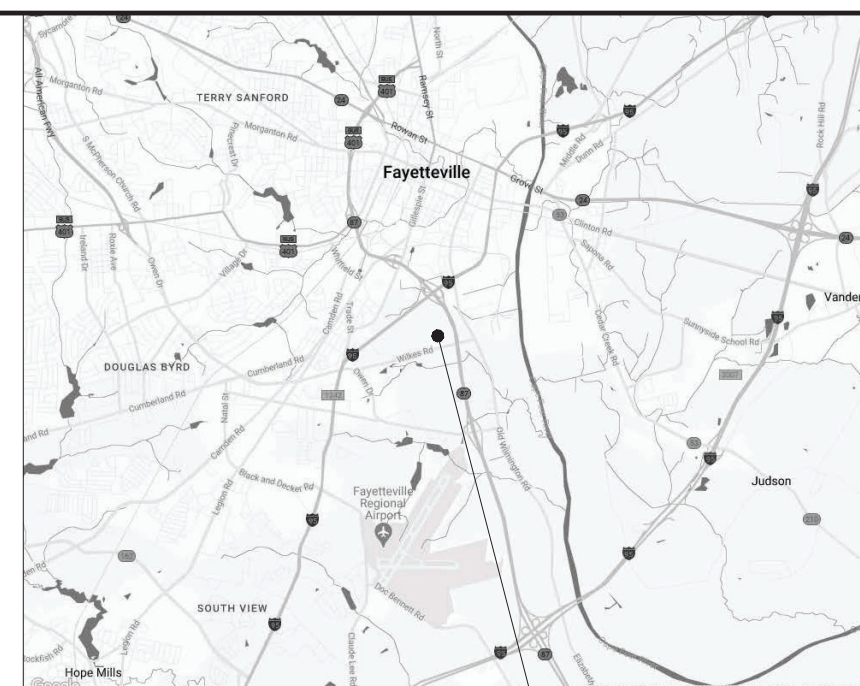
### GENERAL NOTES

- GENERAL CONTRACTOR SHALL NOTIFY ARCHITECT OF ANY DISCREPANCIES FOUND IN THE PLANS, DETAILS AND/OR SPECIFICATIONS PRIOR TO PROCEEDING WITH CONSTRUCTION.
- CONTRACTOR SHALL BEAR RESPONSIBILITY FOR VERIFYING COMPLIANCE OF SHOP DRAWINGS WITH THE CONTRACT DOCUMENTS PRIOR TO ORDERING MATERIALS OR BEGINNING FABRICATION.
- GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL WORK INCLUDED IN THE CONTRACT DOCUMENTS. ALL CORRESPONDENCE FROM THE SUBCONTRACTORS SHALL BE THROUGH THE GENERAL CONTRACTOR.
- CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ALL APPLICABLE CODES AND STATUTES, WHETHER SPECIFICALLY REFERENCED BY THE PLANS OR NOT.
- CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS AND SECURING REQUIRED INSPECTIONS.
- BUILDING SIGNAGE IS TO BE PROVIDED UNDER SEPARATE CONTRACT BY OTHERS.
- GENERAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL SIGNAGE IN COMPLIANCE WITH THE AMERICANS WITH DISABILITIES ACT (A.D.A.), ICC/ANSI A117.1-2009, AND THE LATEST EDITION OF THE NORTH CAROLINA BUILDING CODE.
- ALL MATERIALS ARE TO BE NEW UNLESS OTHERWISE NOTED.
- ANY DEFECTIVE WORK AND ANY DAMAGE RESULTING THEREFROM SHALL BE REPAIRED AT NO COST TO THE OWNER.
- ALTHOUGH THESE DRAWINGS ARE DRAWN TO SCALE, NO DIMENSIONS ARE TO BE DETERMINED BY SCALING THE DRAWINGS. ANY QUESTIONS OR DISCREPANCIES ARE TO BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.
- CONTRACTOR IS RESPONSIBLE FOR REMOVING AND LEGALLY DISPOSING OF ALL REFUSE FROM THE PROJECT.
- NO SMOKING WILL BE PERMITTED INSIDE THE PROJECT AREA.
- CONTRACTOR SHALL PROVIDE BLOCKING AS REQUIRED TO SUPPORT ALL CONTRACTOR-SUPPLIED AND OWNER-SUPPLIED WALL-HUNG EQUIPMENT OR CASEWORK. CONFIRM LOCATIONS WITH OWNER PRIOR TO INSTALLATION.
- THE ADJACENT SITE MAY BE OCCUPIED BY THE PUBLIC DURING CONSTRUCTION. THE G.C. SHALL TAKE ALL PRECAUTIONS NECESSARY TO SAFEGUARD THE HEALTH AND WELFARE OF THE PUBLIC. ALL REQUIRED MEANS OF EGRESS SHALL BE KEPT CLEAR AND ACCESSIBLE AT ALL TIMES.
- THE GENERAL CONTRACTOR SHALL THOROUGHLY REVIEW MANUFACTURER'S LITERATURE AND SHOP DRAWINGS FOR ALL FIXTURES AND/OR EQUIPMENT (WHETHER PROVIDED BY THE OWNER, TENANT OR CONTRACTOR) PRIOR TO ROUGH-IN FOR UTILITIES. CONFIRM ANY DISCREPANCIES PRIOR TO COMMENCEMENT OF WORK.
- LABEL ALL FIRE-RATED WALLS ABOVE CEILING AS REQUIRED BY NC BUILDING CODE 2018, SECTION 703.7. SUGGESTED WORDING: "\_\_\_ HR RATED FIRE AND/OR SMOKE BARRIER. PROTECT ALL OPENINGS."
- G.C. SHALL PROVIDE KNOX BOX, IF REQUIRED BY LOCAL JURISDICTION.

# MAINTENANCE SHED

# CUMBERLAND CO. LANDFILL

771 WILKES RD  
FAYETTEVILLE, NC 28306



VICINITY MAP

### SEPARATE CONTRACTS:

INCLUDING, BUT NOT LIMITED TO:

**EQUIPMENT:**  
THE OWNER SHALL CONTRACT WITH SEPARATE FIRMS TO PROVIDE AND INSTALL ANY REQUIRED REPAIR EQUIPMENT. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING EQUIPMENT DELIVERY, ENSURING ADEQUATE CLEARANCES, AND MAKING FINAL UTILITY CONNECTIONS, IF ANY.

### UNIT PRICES:

**UNIT PRICE #1 REMOVAL AND REPLACEMENT OF UNSUITABLE SOIL:**  
ALL COSTS TO REMOVE (AND LEGALLY DISPOSE OF OFF-SITE) UNSUITABLE SOIL, AS DETERMINED BY OWNER'S SOIL ENGINEER, AND TO REPLACE WITH NEW SUITABLE SOIL AS SPECIFIED.

INDEX OF DRAWINGS			
Sheet #	DESCRIPTION	ISSUED FOR CONSTRUCTION	LATEST REVISION
<b>GENERAL</b>			
G101	COVER SHEET	8/3/22	
G102	BUILDING CODE SUMMARY	8/3/22	
<b>ARCHITECTURAL</b>			
A101	FLOOR PLAN	8/3/22	
A301	REFLECTED CEILING PLAN	8/3/22	
A501	BUILDING ELEVATIONS	8/3/22	
A601	BUILDING SECTION	8/3/22	
<b>STRUCTURAL</b>			
S101	SLAB AND FOUNDATION PLAN	8/3/22	
S201	STRUCTURAL DETAILS	8/3/22	
<b>ELECTRICAL</b>			
E1.01	ELECTRICAL PLAN, ELECTRICAL SITE PLAN, POWER RISER DIAGRAM	8/3/22	
E2.01	LEGEND, NOTES, PANEL SCHEDULES, FIXTURE SCHEDULE	8/3/22	

PRELIMINARY PENDING RECEIPT OF PRE-ENGINEERED METAL BUILDING SHOP DRAWINGS SEALED BY ENGINEER (PROVIDED BY GC).



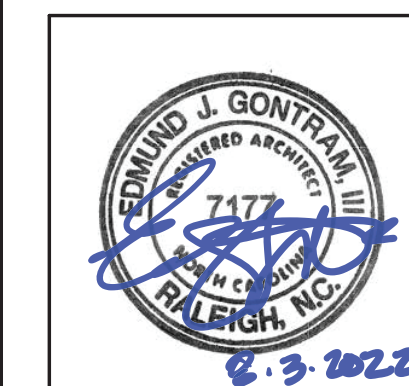
**GONTRAM ARCHITECTURE, INC.**

5100 UNICON DR. SUITE 103  
WAKE FOREST, NC 27587  
PHONE: 919.876.5331

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**MAINTENANCE SHED**  
**CUMBERLAND CO. LANDFILL**  
 771 WILKES RD  
 FAYETTEVILLE, NC 28306

PLOT DATE:	8/3/22	
ISSUED:	8/3/22	
FOR CONSTRUCTION		
Rev.	Date	Description

DRAWN BY: CCT  
APPROVED: E.J.G.

PROJECT NO.: 22003  
RECORD:

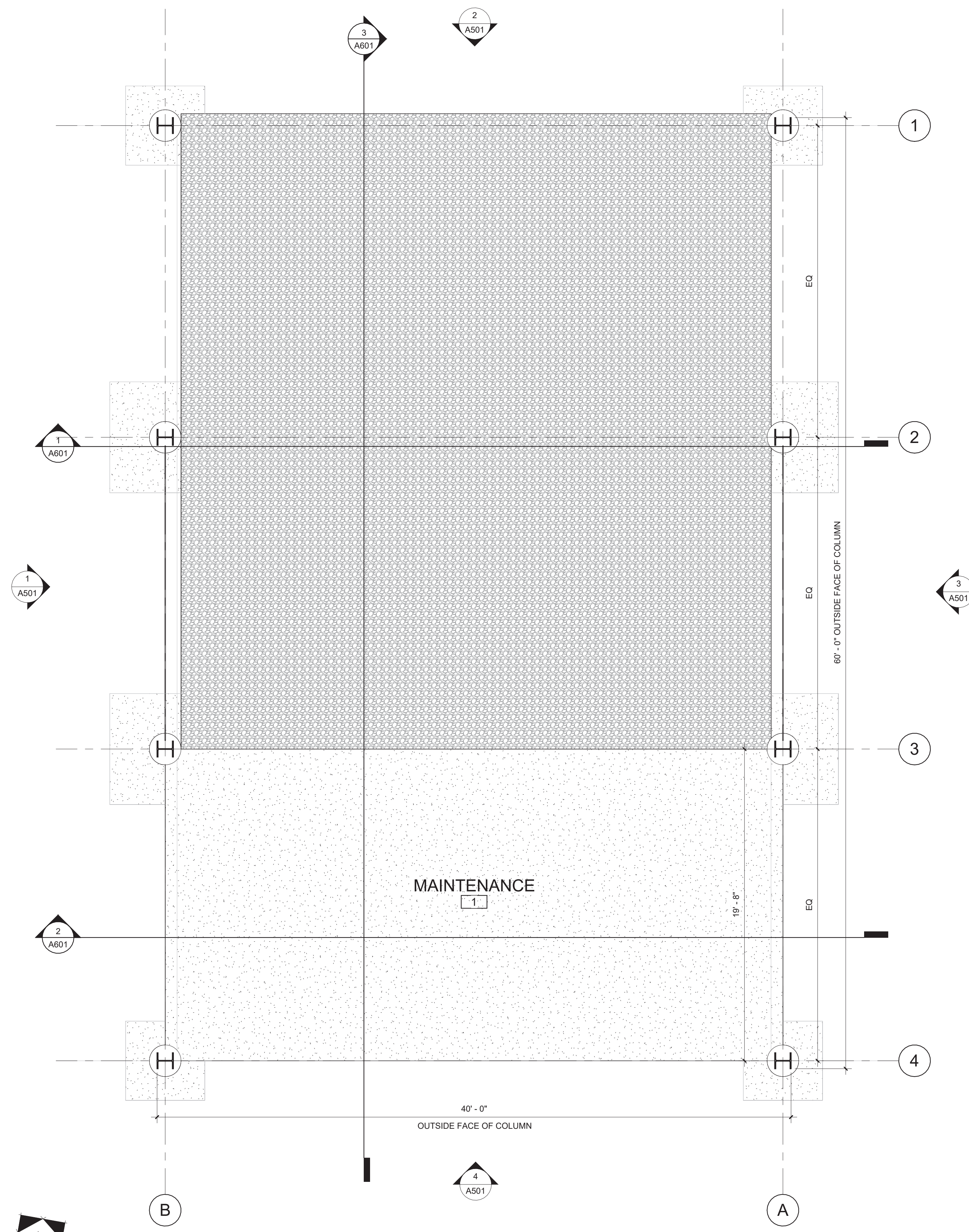
CONTENTS:  
COVER SHEET

SHEET:  
**G101**

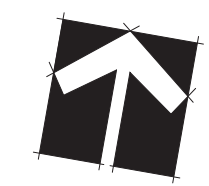


PLAN NOTES:

1. EXTERIOR DIMENSIONS SHOWN ARE FROM FACE OF WALL TO FACE OF WALL OR FROM COLUMN CENTERLINE TO COLUMN CENTERLINE.
2. DIMENSIONS INDICATED AS "CLEAR" OR "CLR" ARE FROM FINISHED SURFACE TO FINISHED SURFACE.
3. DIMENSIONS INDICATED AS "MIN." OR "MINIMUM" ARE ABSOLUTE MINIMUM DIMENSIONS AND ARE NOT TO BE DECREASED. DIMENSIONS INDICATED AS "MAX." OR "MAXIMUM" ARE ABSOLUTE MAXIMUM DIMENSIONS AND ARE NOT TO BE INCREASED.
4. ALTHOUGH THESE DRAWINGS ARE DRAWN TO SCALE, NO DIMENSIONS ARE TO BE DETERMINED BY SCALING THE DRAWINGS. ANY QUESTIONS OR DISCREPANCIES ARE TO BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.



1 FLOOR PLAN  
1/4" = 1'-0"



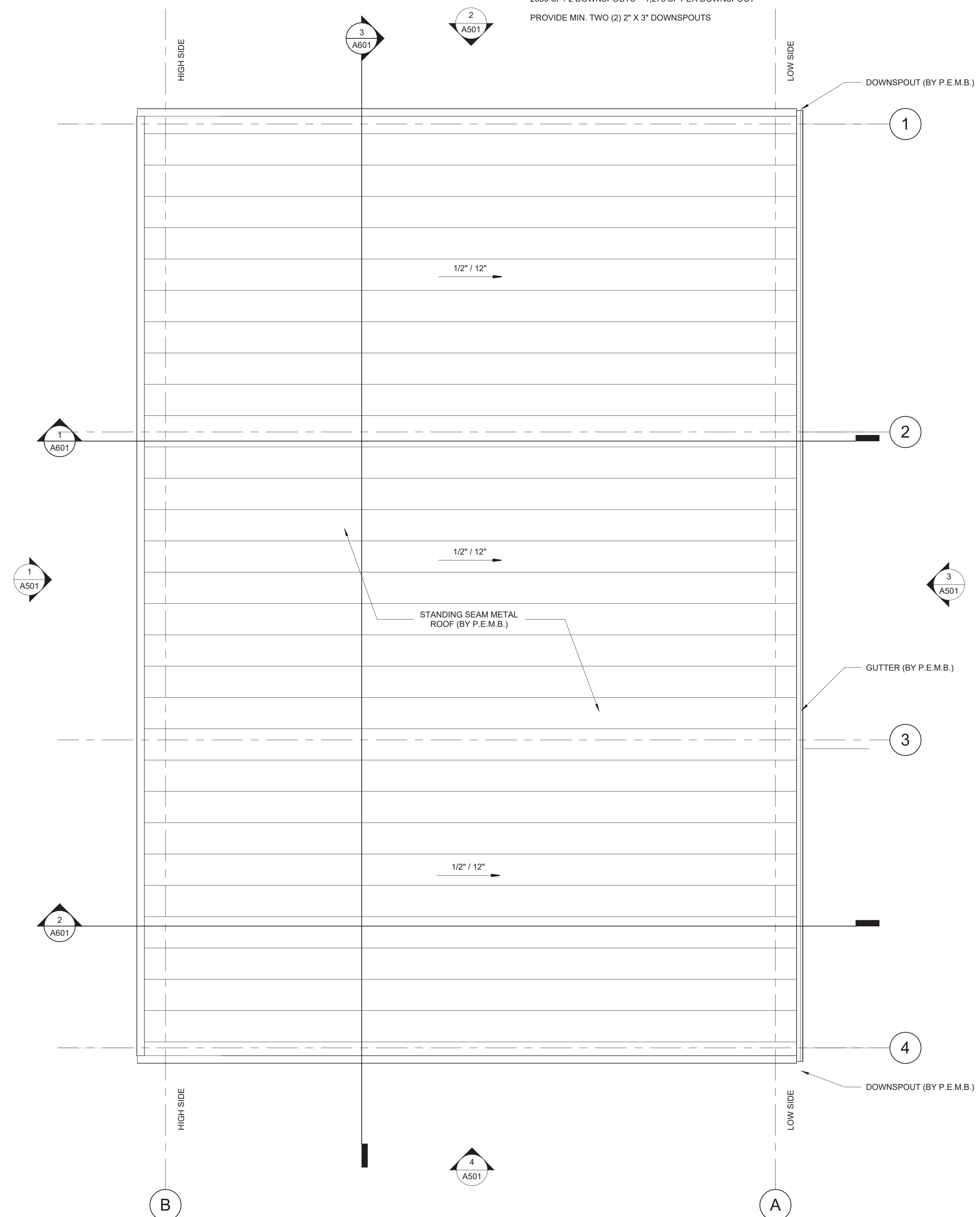
ROOF DRAINAGE CALCULATION

ROOF DRAINAGE DOWNSPOUT CALCULATIONS:

4" RAIN / 60 MINS (100 YEARS)  
 PER NCPC FIGURE 1106.2 (2):  
 1 3/4" X 2 1/2" DOWNSPOUT TAKES 1,130 SF  
 2" X 3" DOWNSPOUT TAKES 1,380 SF  
 2550 SF / 2 DOWNSPOUTS = 1,275 SF PER DOWNSPOUT  
 PROVIDE MIN. TWO (2) 2" X 3" DOWNSPOUTS

ROOF DRAINAGE GUTTER CALCULATIONS:

4" RAIN / 60 MINS (100 YEAR)  
 PER NCPC FIGURE 1106.6:  
 6" DIA. SEMI-CIRCULAR GUTTER TAKES 2,770 SF  
 PROVIDE MIN. 6" DIA. SEMI-CIRCULAR GUTTER.



2 ROOF PLAN  
1/4" = 1'-0"



GONTRAM ARCHITECTURE, INC.

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PHONE: 919.876.5331

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**MAINTENANCE SHED**  
**CUMBERLAND CO. LANDFILL**  
 771 WILKES RD  
 FAYETTEVILLE, NC 28306

PLOT DATE: 8/3/22  
 ISSUED: 8/3/22  
 FOR CONSTRUCTION

Revision	Date	Description

DRAWN BY: CCT      APPROVED: EJJ  
 PROJECT NO.: 22003      RECORD: EJJ  
 CONTENTS:  
 FLOOR PLAN

SHEET:  
**A101**



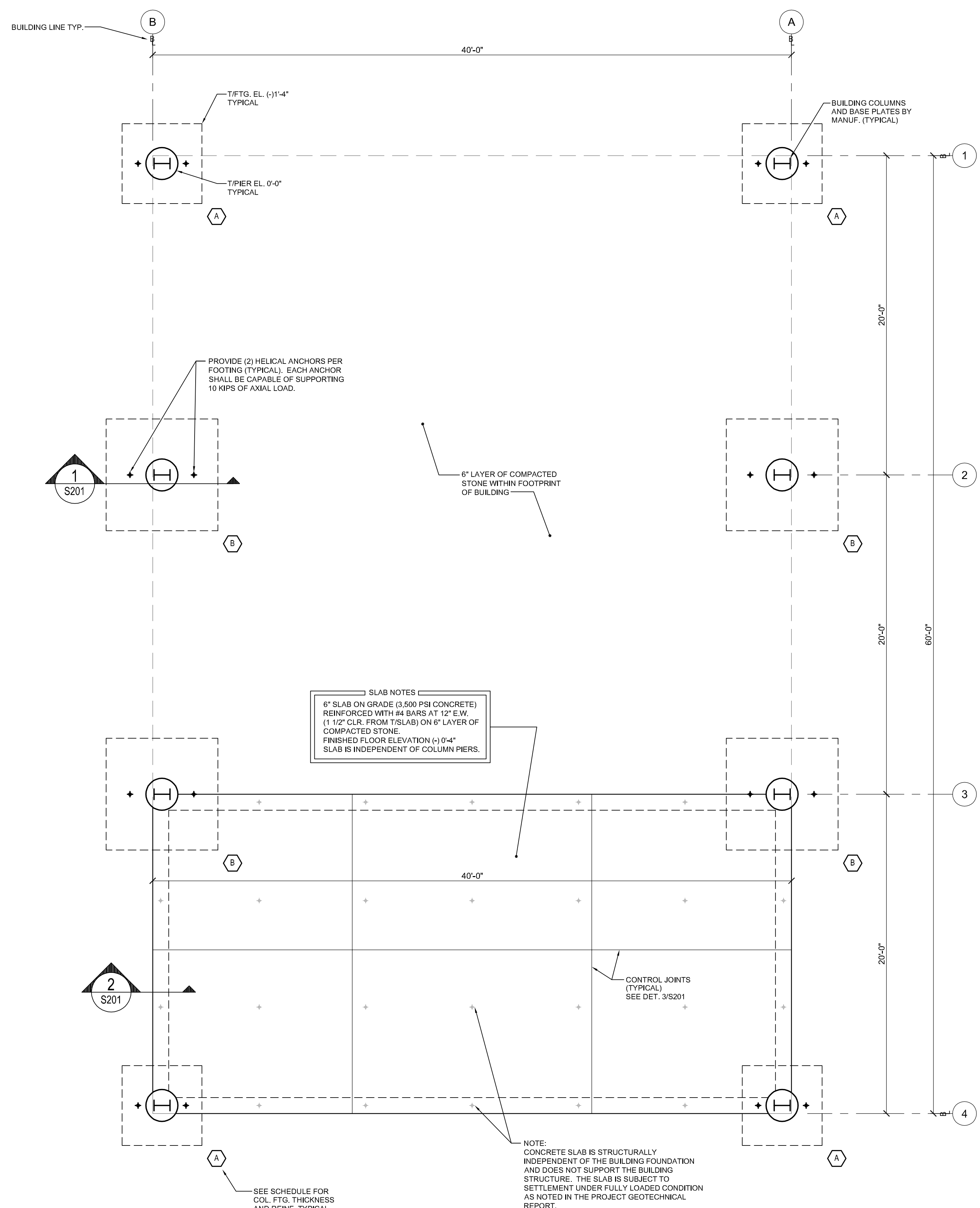




**STRUCTURAL NOTES**

- I. GENERAL**
1. DESIGN CODES
- NORTH CAROLINA BUILDING CODE, 2018 EDITION (AMENDED 2015 INTERNATIONAL BUILDING CODE)
  - ACI BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (ACI 318-14)
  - AISC MANUAL OF STEEL CONSTRUCTION - ALLOWABLE STRESS DESIGN NINTH EDITION
  - ASCE 7-10 MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES
2. DESIGN LOADS
- LIVE LOADS: FLOOR: 100 PSF  
ROOF: 20 PSF
  - ULTIMATE DESIGN WIND SPEED: 122 MPH
  - GROUND SNOW LOAD: 10 PSF
  - SITE CLASS E  
Ss = 0.224  
S1 = 0.098
- SEE PRE-ENGINEERING METAL BUILDING DRAWINGS BY OTHERS FOR FULL STRUCTURAL DESIGN LOAD SUMMARY USED FOR BUILDING DESIGN.
3. ALL ELEVATIONS ARE REFERENCED FROM FINISHED FLOOR ELEVATION OF 0'-0".
4. BUILDING DESIGN AND MAXIMUM FOUNDATION REACTIONS SHALL BE PROVIDED BY THE BUILDING MANUFACTURER. FOUNDATION DESIGN IS BASED ON THE ASSUMED MAXIMUM AND MINIMUM LOADING CONDITIONS. FINAL SEALED FOUNDATION REACTIONS SHALL BE PROVIDED FOR REVIEW PRIOR TO CONSTRUCTION.
5. SEE BUILDING DRAWINGS FOR COLUMN AND BASE PLATE SIZES AND LOCATIONS.
6. ANCHOR BOLT DESIGN PROVIDED BY BUILDING DESIGNER. ANCHOR BOLT EMBEDMENT ONLY IS PROVIDED ON DRAWING S201.
7. DETAILED SHOP DRAWINGS SHALL BE PROVIDED FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION. SHOP DRAWINGS FOR HELICAL ANCHORS SHALL BE SIGNED AND SEALED BY A LICENSED NORTH CAROLINA PROFESSIONAL ENGINEER.
8. ENGINEER'S SEAL APPLIES TO STRUCTURAL COMPONENTS ONLY AND DOES NOT CERTIFY ARCHITECTURAL LAYOUT OR DIMENSIONAL ACCURACY.
9. ROSS LINDEN ENGINEERS PC ASSUMES NO LIABILITY FOR CHANGES OR MODIFICATIONS MADE TO THESE DRAWINGS BY OTHERS, OR FOR CONSTRUCTION METHODS, OR FOR ANY DEVIATION FROM THESE DRAWINGS.

- II. CONCRETE**
1. UNLESS OTHERWISE NOTED, ALL CONCRETE SHALL HAVE THE FOLLOWING STRENGTH AND SLUMP REQUIREMENTS:  
3,500 PSI 28-DAY COMPRESSIVE STRENGTH, MAX. 5" SLUMP.
2. ALL CONCRETE SHALL BE MOIST CURED PER ACI 301 OR CURED WITH AN APPROVED CURING COMPOUND. CONTRACTOR SHALL VERIFY THAT THE CURING COMPOUND IS COMPATIBLE WITH FLOOR COVERING ADHESIVES, COATINGS, OR TOPPING TO BE USED. CONCRETE SHALL BE CURED FOR A MINIMUM OF 7 DAYS.
3. UNLESS OTHERWISE NOTED, ALL REINFORCING STEEL SHALL BE NEW BILLET STEEL, CONFORMING TO ASTM A-615, GRADE 60, DEFORMED.
4. UNLESS OTHERWISE NOTED, ALL DETAILING, FABRICATION, AND PLACING OF REINFORCING STEEL SHALL CONFORM TO THE MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES. (ACI 315)
5. ALL BAR SPLICES SHALL BE CLASS "B" TENSION SPLICES PER ACI 318-08, UNLESS OTHERWISE SHOWN.
6. ANCHOR BOLTS TO BE ASTM A36 OR A307.
7. CONTRACTOR SHALL REFER TO DRAWINGS OF OTHER TRADES AND VENDOR DRAWINGS FOR EMBEDDED ITEMS AND RECESSES NOT SHOWN ON THE STRUCTURAL DRAWINGS.
8. A GEOTECHNICAL REPORT BY GEOTECHNOLOGIES, INC., DATED 14 APRIL 2022 HAS BEEN USED AS THE BASIS OF THIS DESIGN. ALL SPREAD FOOTINGS BEARING ON NATIVE SOIL OR STRUCTURAL FILL ARE DESIGNED FOR AN ALLOWABLE BEARING PRESSURE OF 2,000 PSF (IF REMOVAL AND REPLACEMENT OF EXISTING FILL MATERIAL IS DONE PER RECOMMENDATIONS OF GEOTECHNICAL ENGINEER). A GEOTECHNICAL REPRESENTATIVE SHALL INSPECT ALL FOOTING EXCAVATIONS TO CONFIRM ALLOWABLE BEARING PRESSURES
9. PROVIDE TWO (2) #5 x 4'-0" LONG DIAGONAL BARS IN TOP FACE OF ALL SLABS (1" CLEAR) AT ALL RE-ENTRANT CORNERS. SEE PLAN FOR LOCATIONS.
10. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING, PROTECTING, AND RELOCATING AS REQUIRED ALL SERVICE AND UTILITY LINES IN VICINITY OF THE WORK SITE.
11. CONTRACTOR SHALL VERIFY ALL SIZES AND LOCATIONS OF ALL MECHANICAL AND ELECTRICAL OPENINGS AND EQUIPMENT PADS WITH THE MECHANICAL AND ELECTRICAL DETAILS AND SHOP DRAWINGS BY OTHERS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ALL OPENINGS AND SLEEVES FOR PROPER DISTRIBUTION FOR ALL UTILITIES THROUGHOUT THE BUILDING.
12. ALL DOWELS WHICH ARE TO BE DRILLED AND GROUTED INTO EXISTING CONCRETE SHALL BE DONE WITH AN EPOXY GROUT. DRILL HOLE WITH DIAMETER 1/8" LARGER THAN DOWEL OR AS RECOMMENDED BY GROUT SUPPLIER. USE HIT-RE 500 V3 BY HILTI OR APPROVED EQUAL.



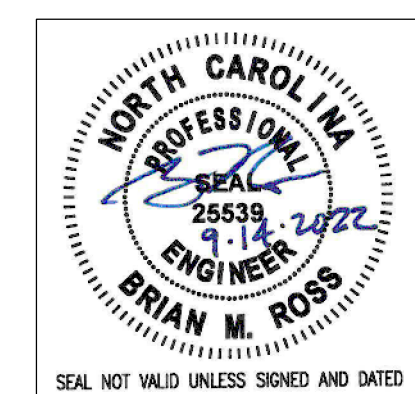
FOOTING SCHEDULE					
MARK	SIZE			REINFORCEMENT	
	N-S	E-W	THK.	N-S	E-W
A	5'-0"	5'-0"	1'-4"	#5 AT 12"	#5 AT 12"
B	7'-0"	7'-0"	1'-4"	#5 AT 12"	#5 AT 12"

**1** SLAB AND FOUNDATION PLAN  
S101 1/4" = 1'-0"



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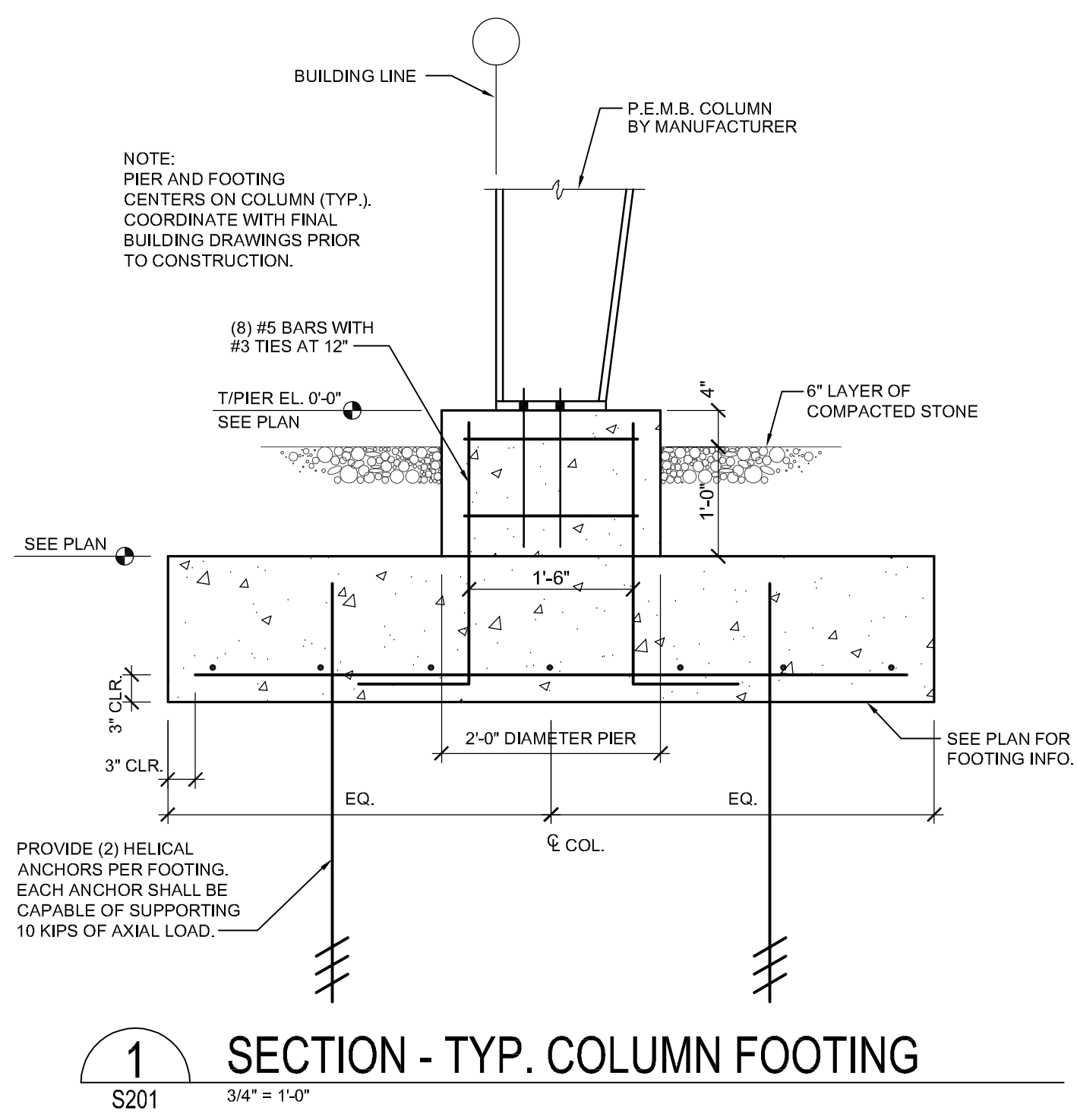
**MAINTENANCE SHED**  
**CUMBERLAND CO. LANDFILL**  
771 WILKES RD  
FAYETTEVILLE, NC 28306

PLOT DATE: 9/14/2022  
ISSUED: 9/14/2022  
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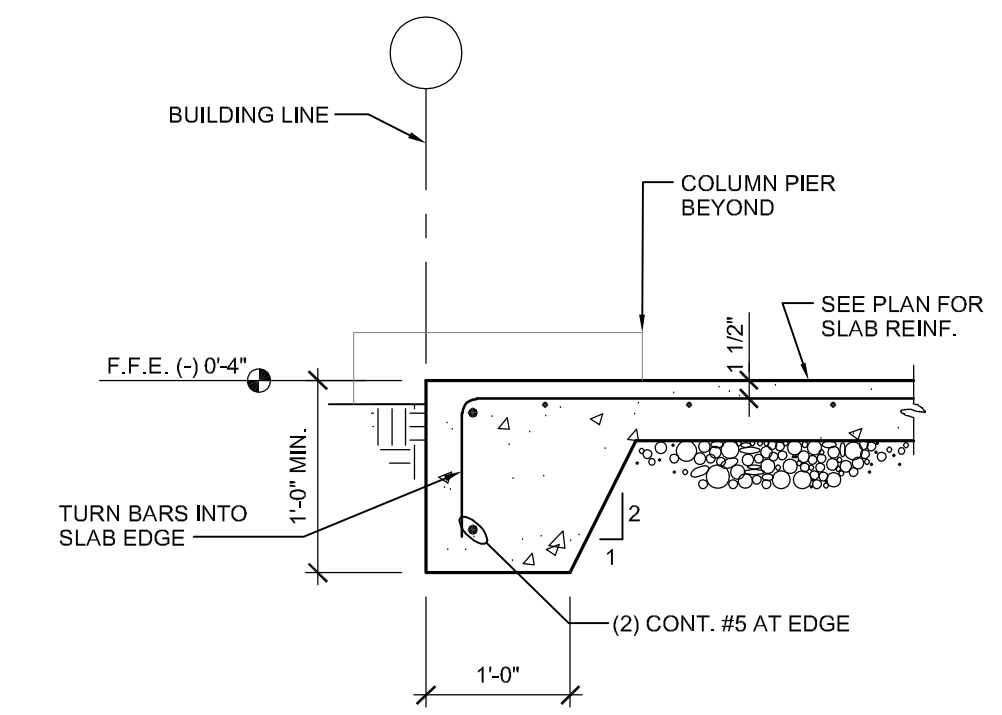
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PROJECT NO.: C220604  
RECORD:

CONTENTS:  
SLAB AND FOUNDATION PLAN

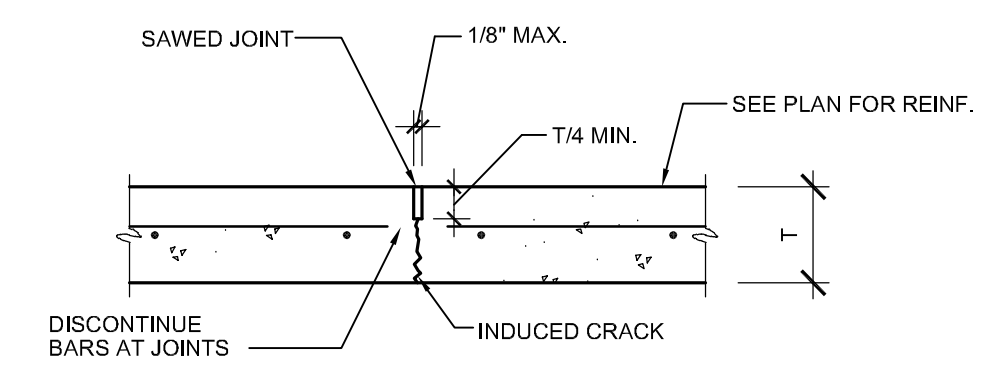
SHEET:  
**S101**



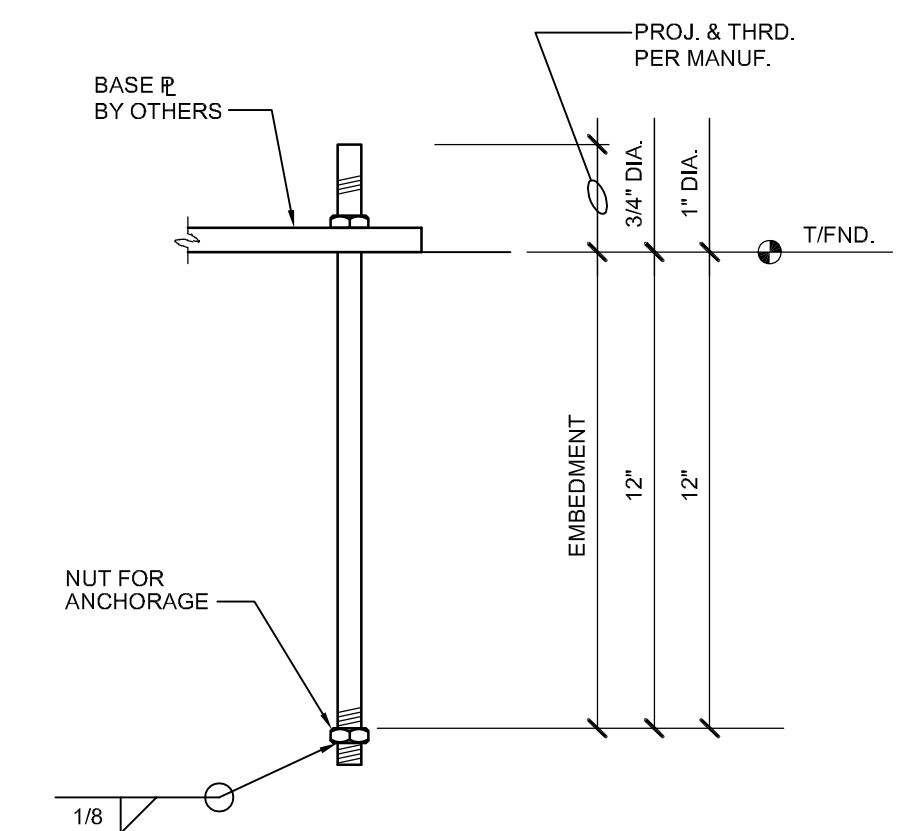
**1 SECTION - TYP. COLUMN FOOTING**  
S201 3/4" = 1'-0"



**2 DETAIL - SLAB EDGE**  
S201 3/4" = 1'-0"



**3 DETAIL - TYP. SLAB CONTROL JOINT**  
S201 1" = 1'-0"

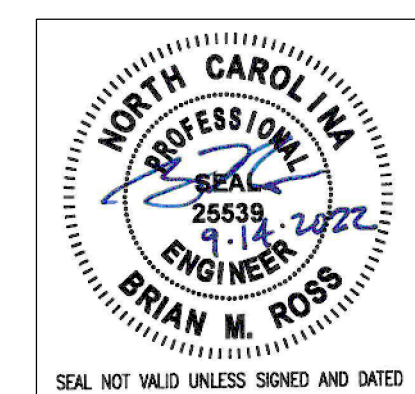


**4 TYP. ANCHOR BOLT DETAIL**  
S201 NO SCALE



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PLOT DATE: 9/14/2022	
ISSUED: 9/14/2022 FOR CONSTRUCTION	
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PROJECT NO.: C220604	RECORD:
CONTENTS: STRUCTURAL DETAILS	

SHEET:  
**S201**



## SYMBOL LEGEND

SYMBOL	DESCRIPTION	REMARKS
	LINEAR H-BAY - LETTER DESIGNATES TYPE	SEE FIXTURE SCHED.
	PHOTOCELL, 105-305VAC, 50/60HZ, 1800VA BALLAST LOAD, 1000W TUNGSTEN LOAD, 8A LED LOAD (UP TO 220W @277V)	TORQ: ZSS24
	SPECIFICATION GRADE TAMPER RESISTANT, WEATHER RESISTANT AND GFCI DUPLEX RECEPTACLE WITH IN-USE WEATHER PROOF COVER, MOUNT 16" AFF. UNLESS OTHERWISE NOTED.	HUBBELL GFTMRST20** WITH WP26M COVER PLATE
	NEW CONCEALED WIRING	PER NEC.
	HOME RUN TO PANEL BOARD NUMBERS OF ARROW INDICATE CIRCUITS	PER NEC.
	EXISTING/NEW 120/240V R, 3W PANEL BOARD - SEE PANEL SCHEDULES	NEW SQUARE D 100 LOAD CENTER
	EXISTING UTILITY METER BASE	SEE POWER RISER
A.F.F.	ABOVE FINISHED FLOOR - NOTE ALL MOUNTING DIMENSIONS GIVEN ARE TO THE BOTTOM OF THE OUTLET BOX	
B.F.F.	BELOW FINISHED FLOOR	
B.F.G.	BELOW FINISHED GRADE	

## GENERAL NOTES

- THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS FOR FLOOR PLAN DIMENSIONS. DO NOT SCALE THESE DRAWINGS.
- THE ELECTRICAL CONTRACTOR SHALL COORDINATE ANY AND ALL WORK WITH OTHER TRADES INVOLVED IN THE PROJECT, PRIOR TO THE INSTALLATION OF HIS EQUIPMENT SO AS TO AVOID CONFLICTS DURING CONSTRUCTION AND TO ALLOW FOR OPTIMUM MAINTENANCE AND WORKING SPACE.
- USE OF THE CONDUIT SYSTEM FOR EQUIPMENT GROUNDING SHALL NOT BE ACCEPTABLE. A SEPARATE GREEN GROUND WIRE SHALL BE RUN WITH THE CIRCUIT CONDUCTORS IN EACH CONDUIT.
- ALL WORK AND MATERIAL SHALL BE PROVIDED IN ACCORDANCE WITH THE STATE, LOCAL AND NATIONAL CODES, ORDINANCES AND 2020 NATIONAL ELECTRICAL CODE (NFPA 70).
- EACH CONTRACTOR SHALL PROVIDE HIS OWN SUPPORT OF ALL DEVICES AND EQUIPMENT PROVIDED BY HIM AND SHALL SUPPORT SUCH EQUIPMENT PER APPROVED GOVERNING CODES OR PER APPROVAL OF THE ENGINEER. UNACCEPTABLE WORKMANSHIP OR MATERIALS SHALL BE REPLACED AT THE REQUEST OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
- THE MOUNTING HEIGHTS AND LOCATIONS OF ALL WALL MOUNTED OUTLETS AND JUNCTION BOXES SHALL BE REVIEWED AND COORDINATED WITH THE ARCHITECT, PRIOR TO INSTALLATION FOR USE WITH THE ACTUAL EQUIPMENT, CASEWORK, AND MILLWORK TO BE FURNISHED.
- THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL NECESSARY DISCONNECTS, SWITCHES, AND RECEPTACLES UNDER THE ELECTRICAL BID AND SHALL INCLUDE ALL NECESSARY CIRCUITS TO AND FINAL CONNECTIONS TO THE EQUIPMENT PROVIDED BY ALL SUPPLIERS.
- PENETRATIONS:
  - WHERE ELECTRICAL EQUIPMENT PENETRATES RATED WALLS AND CEILINGS, EXTERIOR WALLS, THEY SHALL BE PROPERLY SEALED PER APPROVED UL METHODS.
  - WHERE ELECTRICAL EQUIPMENT PENETRATES EXTERIOR WALLS, THEY SHALL BE PROPERLY SEALED WITH METHODS APPROVED BY THE ENGINEER, SUBMIT DETAIL OF PROPOSED SEALING METHODS.
- ALL PERMITS AND INSPECTION FEES SHALL BE SECURED AND PAID BY THE ELECTRICAL CONTRACTOR.
- ALL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR.
- THE CONTRACTOR SHALL PROVIDE COMPLETE UPDATED TYPEWRITTEN PANEL SCHEDULES FOR ALL PANELBOARDS.
- AS BUILT DRAWINGS SHALL BE GIVEN TO THE OWNER AT THE COMPLETION OF THE PROJECT.
- ALL WIRE SIZES INDICATED ON THE PANEL SCHEDULES ARE BASED ON 75 DEGREE COPPER THINWALL WIRE. ALL WIRE TERMINALS AND EQUIPMENT SHALL BE LISTED AND APPROVED FOR 75°C. ONLY THIN-WALL WIRE SHALL BE INSTALLED IN WET AND EXTERIOR LOCATION.
- MINIMUM CONDUIT SIZE SHALL BE 1/2" AND MINIMUM WIRE SIZE SHALL BE #12 AWG.
- ARMORED CABLE (TYPE AC) AND METAL-CLAD CABLE (TYPE MC) ARE NOT ALLOWED ON THIS PROJECT.
- THE MAXIMUM NUMBER OF HOMERUNS IN A CONDUIT SHALL NOT EXCEED THREE (3). FEEDING CIRCUITS WITH SHARED NEUTRAL SHALL BE SWITCHED TOGETHER.
- ALL PANELS SHALL BE SINGLE PHASE, THREE WIRE UNLESS OTHERWISE NOTED.

## KEY NOTES:

- 1 PROVIDE NEW BREAKER AT AVAILABLE SPACE.

PANEL A												120/240V, 1 PHASE, 3 WIRE											
CKT	DESCRIPTION	KVA	C	G	W	CB	CKT	CKT	CB	W	G	C	KVA	DESCRIPTION	CKT								
1	REC	1.0	E	E	E	20	1	2	20	E	E	E	1.0	EXISTING LIGHTS	2								
3	COMPRESSOR	1.8	E	E	E	30	3	4	--	--	--	--	0.0	SPACE ONLY	4								
5							5	6	--	--	--	--	0.0	SPACE ONLY	6								
7	SPACE ONLY	0.0	--	--	--	7	8	--	--	--	--	--	0.0	SPACE ONLY	8								
9	PANEL B	1.5	1/4	B	4	60	9	10	--	--	--	--	0.0	SPACE ONLY	10								
11	PROVIDE #4 NEUTRAL	0.7	--	--	4	2P	11	12	--	--	--	--	0.0	SPACE ONLY	12								
13	SPACE ONLY	0.0	--	--	--	13	14	--	--	--	--	--	0.0	SPACE ONLY	14								
15	SPACE ONLY	0.0	--	--	--	15	16	--	--	--	--	--	0.0	SPACE ONLY	16								
17	SPACE ONLY	0.0	--	--	--	17	18	--	--	--	--	--	0.0	SPACE ONLY	18								
19	SPACE ONLY	0.0	--	--	--	19	20	--	--	--	--	--	0.0	SPACE ONLY	20								

DESCRIPTION	CONNECTED KVA	DEMAND FACTOR	DEMAND KVA	NOTES	CONNECTED LOADS
CONTR. LOAD	1.00	125%	1.25	100 A MINIMUM BUS SIZE MAIN LUGS ONLY 10 K MINIMUM AIC RATING	PHASE A: 5.4 KVA PHASE B: 2.5 KVA
RECEPTACLE	2.52	100%/50%	2.52		TOTAL: 7.9 KVA
MTRS/COOLS	3.60	100%	3.60		DEMAND 34 AMP
HEATS	0.00	100%	0.00		
WATER HEATER	0.75	100%	0.75		
EQUIPMENT	0.00	100%	0.00	EXISTING SQUARE D 100 LOAD CENTER	
KITCHEN EQUIP.	0.00	65%	0.00	'E' DENOTES EXISTING, LOAD PER SURVEY	
SPECIAL EQ.	0.00	100%	0.00		
25% OF LARGEST HVAC/MOTOR			0.00		
TOTAL DEMAND			6.12		

PANEL B												120/240V, 1 PHASE, 3 WIRE											
CKT	DESCRIPTION	KVA	C	G	W	CB	CKT	CKT	CB	W	G	C	KVA	DESCRIPTION	CKT								
1	LIGHTS	0.8	1/2	1/2	1/2	20	1	2	20	1/2	1/2	1/2	0.2	REC	2								
3	REC	0.2	1/2	1/2	1/2	20	3	4	20	1/2	1/2	1/2	0.2	REC	4								
5	REC	0.2	1/2	1/2	1/2	20	5	6	20	1/2	1/2	1/2	0.2	REC	6								
7	REC	0.2	1/2	1/2	1/2	20	7	8	20	1/2	1/2	1/2	0.2	REC	8								
9	REC	0.2	1/2	1/2	1/2	20	9	10	--	--	--	--	0.0	SPACE ONLY	10								
11	SPACE ONLY	0.0	--	--	--	11	12	--	--	--	--	--	0.0	SPACE ONLY	12								
13	SPACE ONLY	0.0	--	--	--	13	14	--	--	--	--	--	0.0	SPACE ONLY	14								
15	SPACE ONLY	0.0	--	--	--	15	16	--	--	--	--	--	0.0	SPACE ONLY	16								
17	SPACE ONLY	0.0	--	--	--	17	18	--	--	--	--	--	0.0	SPACE ONLY	18								
19	SPACE ONLY	0.0	--	--	--	19	20	--	--	--	--	--	0.0	SPACE ONLY	20								

DESCRIPTION	CONNECTED KVA	DEMAND FACTOR	DEMAND KVA	NOTES	CONNECTED LOADS
CONTR. LOAD	0.00	125%	0.00	100 A MINIMUM BUS SIZE 60 A MAIN CIRCUIT BREAKER 10 K MINIMUM AIC RATING	PHASE A: 1.5 KVA PHASE B: 0.7 KVA
RECEPTACLE	1.44	100%/50%	1.44		TOTAL: 2.2 KVA
MTRS/COOLS	0.00	100%	0.00		DEMAND 9 AMP
HEATS	0.00	100%	0.00		
WATER HEATER	0.75	100%	0.75		
EQUIPMENT	0.00	100%	0.00	SQUARE D 100 LOAD CENTER	
KITCHEN EQUIP.	0.00	65%	0.00		
SPECIAL EQ.	0.00	100%	0.00		
25% OF LARGEST HVAC/MOTOR			0.00		
TOTAL DEMAND			2.19		

## 2018 NORTH CAROLINA ENERGY CODE

LAMP TYPE REQUIRED:	ELECTRICAL SYSTEM AND EQUIPMENT METHOD OF COMPLIANCE: PRESCRIPTIVE LIGHTING SCHEDULE:			
	FLUORESCENT T8/T5	LED	CFL	INCAN
NUMBER OF LAMPS:	N/A	SEE	N/A	N/A
BALLAST TYPE USED:	N/A	FIXTURE	N/A	N/A
NUMBER OF BALLASTS:	N/A	SCHEDULE	N/A	N/A
TOTAL WATTAGE PER FIXTURE:	N/A		N/A	N/A

EXTERIOR WATTAGE	SPECIFIED	ALLOWED BY CODE
ALLOWANCE	678	750

**NOTES:**

- ALL EXTERIOR LIGHTS:
  - CONTROLLED BY PHOTOCELL THAT WILL NOT INTENDED TO BE ON FOR 24 HOUR OPERATION.

DESIGNER STATEMENT:  
TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE DESIGN OF THIS BUILDING COMPLIES WITH THE ELECTRICAL SYSTEM AND EQUIPMENT REQUIREMENTS OF THE NORTH CAROLINA STATE BUILDING CODE, 2018 - ENERGY.

SIGNED:

NAME: SUNIL PRAMOJANEY, P.E.  
TITLE: ENGINEER

## 1 PANEL SCHEDULES

NO SCALE

LIGHT FIXTURE SCHEDULE				
TYPE	DESCRIPTION	CATALOG	ELECTRICAL DATA	NOTES
A	LINEAR H-BAY LED FIXTURE PENDANT MOUNTED 18000 LUMEN LISTED FOR WET LOCATION AND 10' TO 10'0".	LITHONIA: XE-L24-18000LM-ACMD-MVOLT-40K-80CRI	18000 LUMEN LED, 4000K 0-10V ELECTRONIC DIMMING DRIVER 13 WATTS - 125 VA, 120-277V	MOUNT BOTTOM 20 FT. AFF.

## 2 FIXTURE SCHEDULE

NO SCALE



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919 578-1111  
2022



**MAINTENANCE SHED**  
**CUMBERLAND CO. LANDFILL**  
771 WILKES RD  
FAYETTEVILLE, NC 28306

PLOT DATE:  
8/3/2022  
ISSUED:  
8/3/2022  
FOR CONSTRUCTION

DRAWN BY: MP  
APPROVED: SP  
PROJECT NO.: 22141  
RECORD:

CONTENTS:  
LEGEND, NOTES  
PANEL SCHEDULES  
FIXTURE SCHEDULE

SHEET:  
**E2.01**  
OF 2