



FLORIDA GATEWAY COLLEGE

Addendum Two

ITB #21-3-01 – Olustee Armory Building

November 11, 2020

This Addendum has been issued to address vendor questions.

Q&A:

Question 1: What is the structural design of the base of the masonry wall?

Answer: See detail 2 of the attached block wall drawing.

Question 2: What topographic information will be shared with the contractors to handle the terrain at the base of the wall?

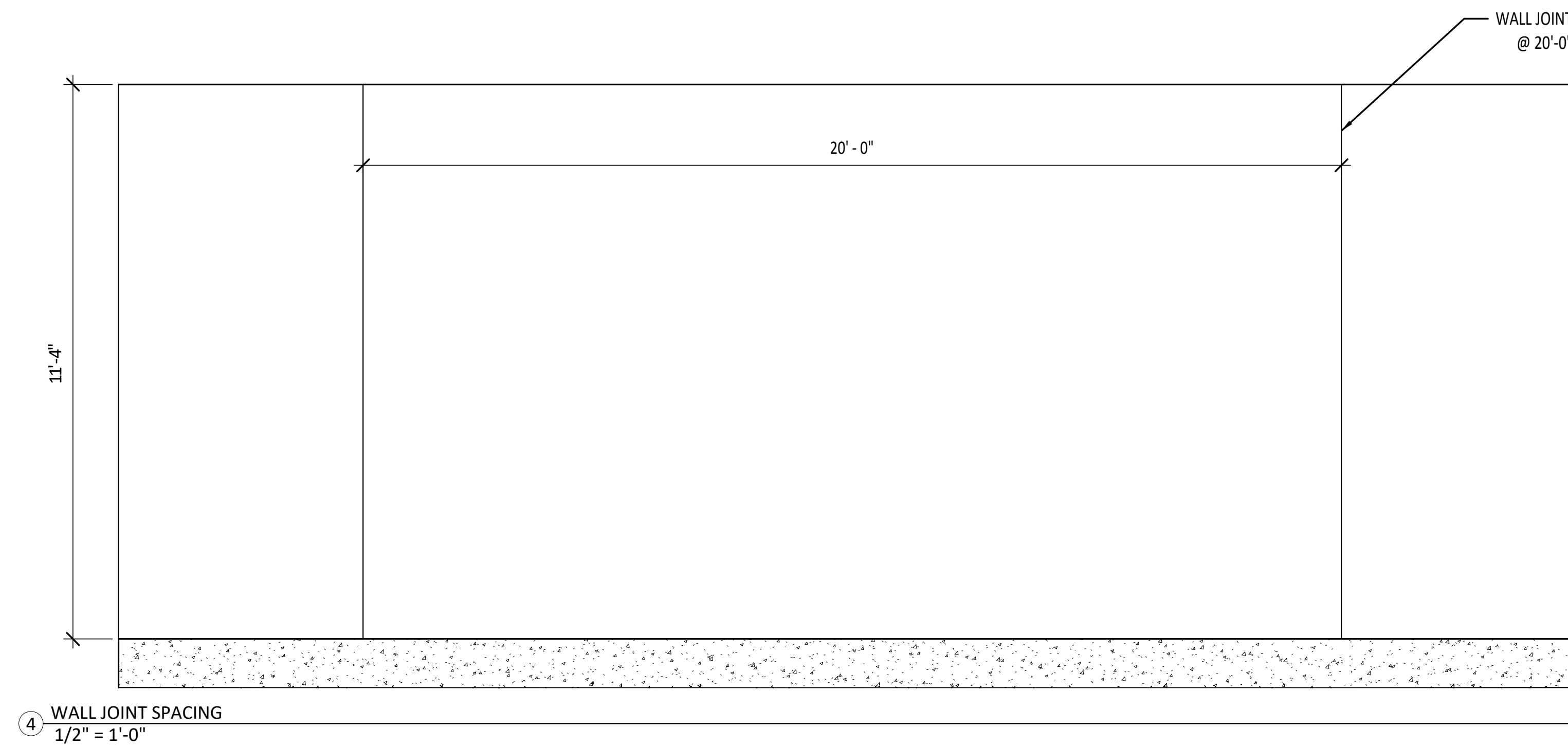
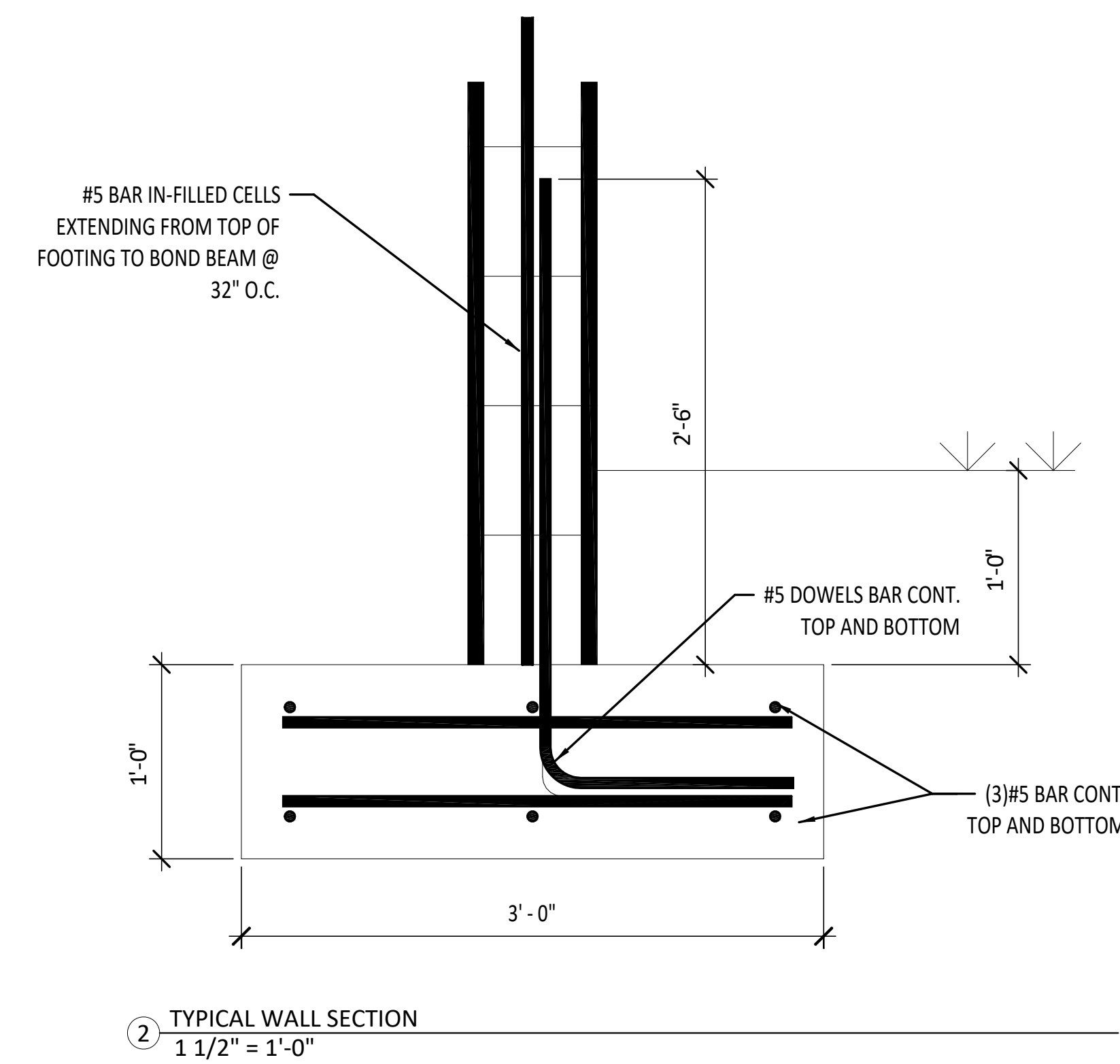
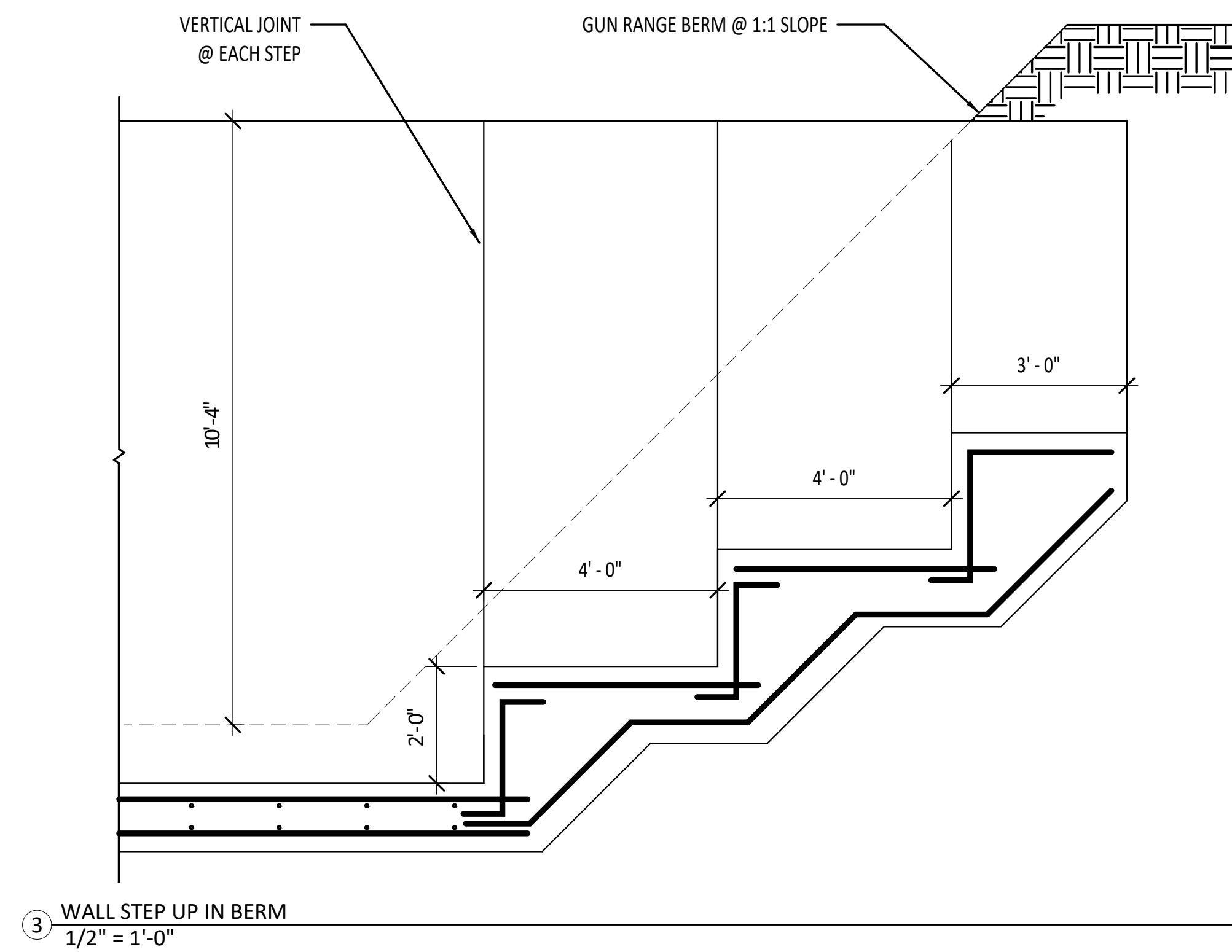
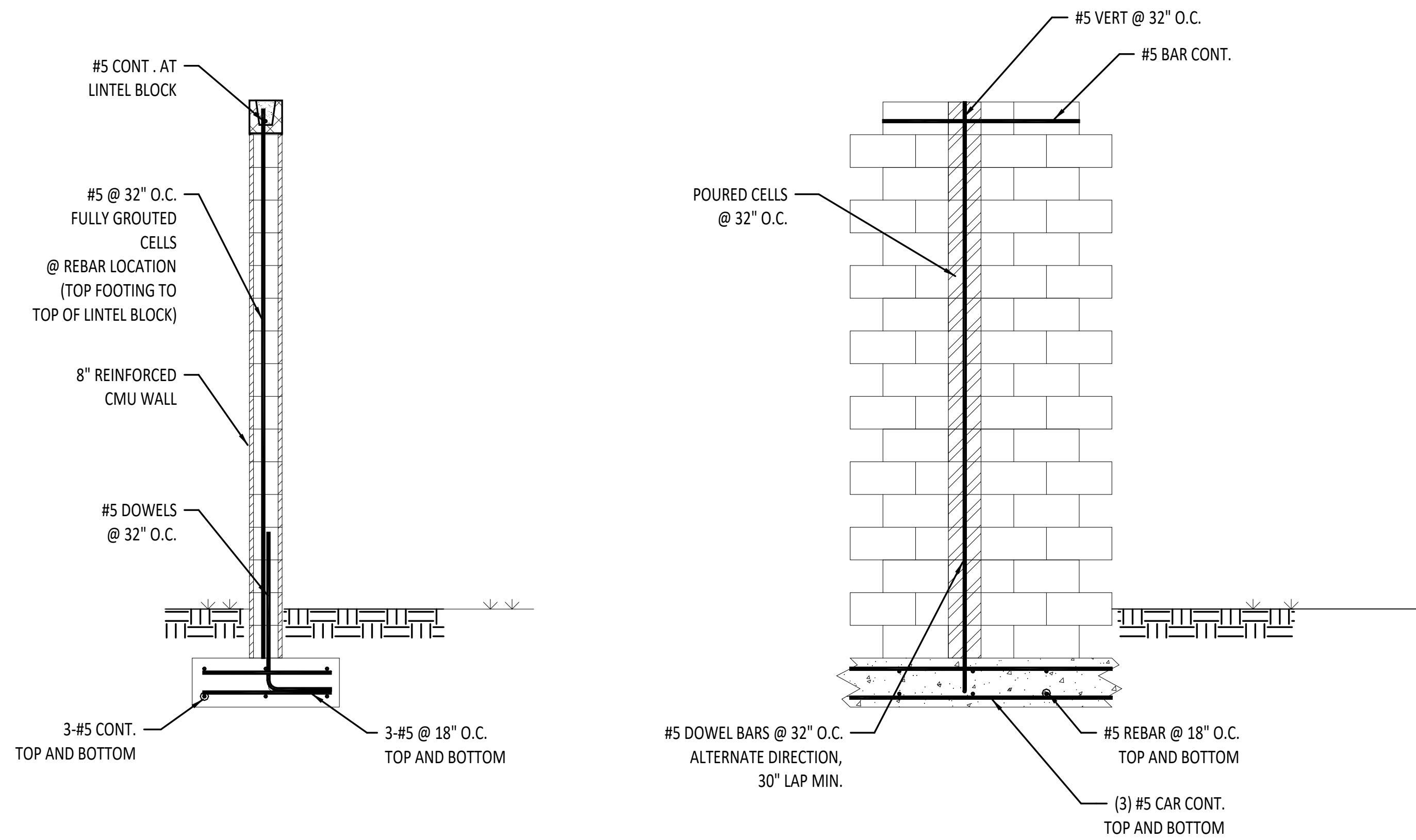
Answer: See the attached gun range topographic drawing. Minimum of 12" of earth cover is required above the footer at the lowest area of the site, which is the eastern area of the walls. That would put the top of the north wall around 175.33' and the top of the south wall around 174.83'.

Question 3: What type of block is the armory building calling for?

Answer: Standard CMU smooth face

Misty Taylor
Director of Procurement and Contracts
Florida Gateway College

Revision Schedule		
Revision Number	Revision Description	Revision Date
0	ISSUED FOR CONSTRUCTION	8/24/20



SHEET SCHEDULE				
SHEET NUMBER	SHEET NAME	REVISION	Current Revision Description	REVISION DATE
S-001	DIVIDER WALL SECTIONS AND DETAILS	0	ISSUED FOR CONSTRUCTION	8/24/20
S-002	STRUCTURAL NOTES	0	ISSUED FOR CONSTRUCTION	8/24/20

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GUN RANGE - DIVIDER WALL
LAKE CITY, FL

FLORIDA GATEWAY COLLEGE		GILL ENGINEERING SERVICES, INC AUTH # 30824	
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DIVIDER WALL SECTIONS AND DETAILS

2032-062	DWG #:	S-001	REV #:	0
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GENERAL STRUCTURAL NOTES

Revision Schedule		
Revision Number	Revision Description	Revision Date
0	ISSUED FOR CONSTRUCTION	8/24/20

GENERAL NOTES:

1. ALL CONSTRUCTION AND DESIGN SHALL CONFORM TO THE 2017 FBC (6TH ED)
2. THE STRUCTURAL DRAWINGS SHALL BE UTILIZED IN CONJUNCTION WITH OTHER CONSULTANTS' DRAWINGS.
3. THE STRUCTURAL DRAWINGS ARE INTENDED FOR THE STRUCTURE TO ACT AS WHOLE ONCE CONSTRUCTION IS COMPLETE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE SAFETY AND STABILITY (I.E, TEMPORARY BRACING IF REQUIRED) DURING CONSTRUCTION AS A RESULT OF CONSTRUCTIONS METHODS AND SEQUENCES.
4. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING STRUCTURES. THE ENGINEER SHALL BE NOTIFIED ON ANY DISCREPANCY BETWEEN THE EXISTING CONDITIONS AND CONSTRUCTION DOCUMENTS.
5. DESIGN CRITERIA
 - A. CODE: 2017 FBC (6TH ED)
 - B. LOADS AND DESIGN CRITERIA: THE FOLLOWING LOADS AND CRITERIA WERE USED IN ADDITION T THE DEAD LOAD OF THE STRUCTURE.

SOIL CRITERIA:

ALLOWABLE SOIL BEARING	2000 PSF (ASSUMED)
PASSIVE PRESSURE	150 PCF
FRICTION COEFFICIENT	0.35

WIND CRITERIA:

WIND SPEED:	120 MPH (3-SECOND GUST)
CATEGORY:	I
EXPOSURE	B
STRUCTURE:	FREESTANDING WALL
MWFRS WIND PRESSURE:	+/- 20.1 PSF

CONCRETE AND REINFORCING STEEL:

1. ALL CONCRETE DESIGNED PER CURRENT EDITION OF AC1 318
2. CONCRETE SHALL HAVE THE FOLLOWING MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS:
 - A. FOUNDATION WALLS, PIERS, AND FOOTINGS 3000 PSI
 - B. SLAB ON CARE: 3000 PSI
 - C. ALL OTHER CONCRETE 3000 PSI
3. ALL CONCRETE SHALL BE NORMAL WEIGHT CONCRETE WITH A NORMAL AIR DENSITY OF 145 PSF.
4. PROVIDE CONSTRUCTION JOINTS WHERE SHOWN, OMIT NONE AND ADD NONE WITHOUT WRITTEN APPROVAL FROM THE ARCHITECT / ENGINEER. SUBMIT DRAWINGS SHOWING ALL PROPOSED CONSTRUCTION JOINT LOCATIONS FOR APPROVAL PRIOR TO PREPARATIONS OF AFFECTED REINFORCEMENT SHOP DRAWINGS
5. MINIMUM ELAPSED TIME BETWEEN ADJACENT CONCRETE PLACEMENTS SHALL BE 48 HOURS
6. CONCRETE MIX DESIGN FOR EACH TYPE AND STRENGTH OF CONCRETE SPECIFIED SHALL BE SUBMITTED FOR ARCHITECT / ENGINEER REVIEW 30 DAYS PRIOR TO PLACEMENT OF CONCRETE
7. ALL REINFORCING STEEL ASTM A615 GRADE 60, ALL WELDED WIRE FABRIC ASTM A185

REINFORCING STEEL:

1. ALL BAR REINFORCEMENT SHALL BE CONFORM TO ASTM 615 GRADE 60.
2. WELD WIRE FABRIC REINFORCEMENT SHALL CONFORM TO ASTM A185
3. CLEARANCE OF MAIN REINFORCEMENT FROM ADJACENT SHALL BE CONFORM TO THE FOLLOWING (UNLESS OTHERWISE SHOWN IN DETAIL).
 - A. UNFORMED SURFACES IN CONTACT WITH GROUND (FOOTING OR WALL BOTTOM).....3"
 - B. SLAB ON GRADE2 1/2"
 - C. FORMED SURFACE IN CONTACT WITH GROUND OR EXPOSED TO WEATHER (WALLS, PIERS).....2"
 - D. IN ALL CASES, CLEARANCE NOT LESS THAN DIAMETER OF BARS.

NOTE: MAXIMUM DEVIATION FROM THESE REQUIREMENTS SHALL BE + 1/4" FOR SECTIONS 10" OR LESS AND +1/2" FOR SECTIONS OVER 10" THICK.
4. REINFORCEMENT SHALL BE CONTINUOUS THROUGH ALL CONSTRUCTION JOINTS UNLESS OTHERWISE INDICATED ON DRAWS
5. WHERE REINFORCEMENT IS NOT SHOWN ON DRAWINGS, PROVIDE REINFORCEMENT IN ACCORDANCE WITH APPLICABLE TYPICAL DETAILS OR SIMILAR TO THAT SHOWN FOR MOST NEARLY SIMILAR SITUATION, AS DETERMINED BY THE ARCHITECT / ENGINEER. IN NO CASE SHALL REINFORCEMENT BE LESS THAN MINIMUM PERMITTED BY APPLICABLE CODES.
6. ALL WORKMANSHIP AND MATERIAL SHALL BE CONFORMED TO THE MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES" (ACI-315)
7. ALL REINFORCEMENT SHALL BE INSPECTED AND APPROVED BY THE ARCHITECT/ENGINEER OR OWNER TESTING AGENCY BEFORE CONCRETE IS PLACED.
8. WHERE CONTINUOUS BARS ARE CALLED FOR THEY SHALL BE CONTINUOUSLY AROUND CORNERS, LAPPED AT NECESSARY SPLICES AND HOOKED AT CONTINUOUS ENDS.
9. WELDED WIRE FABRIC SHALL BE LAPPED ONE FULL MESH PANEL OR 6" MIN.
10. ALL REINFORCING SPLICES SHALL CONFORM TO THE TABLE(S) PROVIDED IN THE GENERAL NOTES FOR STRENGTH OF CONCRETE BUT IN NO CASE LESS THAN THE REQUIREMENTS OF THE LATEST EDITION OF A318
11. SLABS AND WALLS SHALL NOT BE SLEEVED OR BOXED OUT OR HAVE THEIR REINFORCEMENT INTERRUPTED EXCEPT SPECIFICALLY NOTED ON THE DRAWINGS. PROVIDE ADDITIONAL REINFORCEMENT AROUND OPENINGS AS SHOWN IN THE DETAILS.
12. SUBMIT CHECKED SHOP DRAWINGS TO THE ARCHITECT / ENGINEER FOR REVIEW PRIOR TO FABRICATION OF REINFORCEMENT.
13. BAR SUPPORTS SHALL BE GALVANIZED OR STAINLESS STEEL. BAR SUPPORTS IN CONTACT WITH EXPOSE SURFACE SHALL BE GALVANIZE AND PLASTIC TIPPED.

ADDITION CONCRETE ITEMS:

SLAB AND WALL REINFORCING LAP SPLICE LENGTHS

LAP SPLICE LENGTHS FOR REINFORCING IN 4000 PSI CONCRETE AS FOLLOWS

BAR SIZE	TENSION SPLICE		DEVELOPMENT LENGTH
	TOP	OTHER	
#3	21"	15"	13"
#4	29"	20"	17"
#5	35"	25"	21"
#6	43"	31"	25"
#7	54"	39"	32"
#8	71"	51"	42"

LAP SPLICE LENGTHS FOR REINFORCING IN 3000 PSI CONCRETE AS FOLLOWS

BAR SIZE	TENSION SPLICE		DEVELOPMENT LENGTH
	TOP	OTHER	
#3	21"	15"	13"
#4	29"	20"	17"
#5	35"	25"	21"
#6	46"	33"	27"
#7	63"	45"	37"
#8	83"	59"	49"

NOTES:

1. LAPPED SPLICE LENGTHS BASED ON ASTM A-615, GRADE 60, REBAR
2. REINFORCING BARS CLASSIFIED AS TOP BARS WHEN MORE THAN 12" ON CONCRETE IS CAST BENEATH RESPECTIVE REINFORCING BAR.
3. COMPRESSION SPLICES SHALL PERMISSIBLE ONLY WHERE SPECIFICALLY NOTED ON THE DRAWINGS
4. TENSION SPLICES SHALL BE USED IN ALL BEAMS, SLABS, AND WALLS UNLESS OTHERWISE NOTED.
5. WHEN LAPPING LARGER BARS WITH SMALLER BARS, LAP LENGTH FOR SMALLER BAR SHALL GOVERN RESPECTIVE SPLICE.
6. SPLICE CONTINUOUS TOP REINFORCING BARS AT CENTER OF CLEAR SPAN WITH COMPRESSION SPLICES
7. SPLICE CONTINUOUS REINFORCING BARS AT CENTER OF SUPPORTING ELEMENT WITH COMPRESSION SPLICES.

COMPACTION REQUIREMENTS

1. SUBGRADE SOILS AND STRUCTURAL FILL MATERIALS SHALL BE COMPACTED TO THE FOLLOWING PERCENTAGES OF THE ASTM D1557 MAXIMUM DRY DENSITY AT +/- 2% OPTIMUM MOISTURE CONTENT:

<u>MATERIAL</u>	<u>MINIMUM PERCENT COMPACTION</u>
STRUCTURAL FILL, IN THE BUILDING AREA	95
SUBBASE FOR SLAB SUPPORT	95
SUBGRADE BELOW STRUCTURAL FILL	95
MISCELLANEOUS BACKFILL	90

MASONRY:

1. ALL MASONRY UNITS SHALL COMPLY WITH ASTM C 90 WITH A COMPRESSION STRENGTH OF 1900 PSI (NET AREA).
2. F'm = 1500 PSI
3. MORTAR SHALL BE TYPE S.
4. GROUT : F'c = 2000 PSI
5. CELLS CONTAINING REBAR SHALL BE GROUTED SOLID FROM BOTTOM TO THE TOP OF WALL IN ACCORDANCE WITH THE FLORIDA BUILDING CODE.
6. ALL CELLS BELOW GRADE SHALL BE GROUTED SOLID.
7. ALL VERTICAL REBAR SHALL BE IN PLACE AND SECURED WITH REBAR POSITIONERS PRIOR TO GROUTING.
8. CELLS CONTAINING EXPANSION ANCHORS SHALL BE GROUTED SOLID. UNLESS OTHERWISE NOTES MASONRY CELLS SHALL BE GROUTED IN ACCORDANCE WITH FBC (MAXIMUM 5 FOOT GROUT LIFTS).
9. LAP REBAR 48 BAR DIAMETERS (12" MIN) UNLESS NOTED OTHERWISE. ALL HORIZONTAL REINFORCING IN BOND BEAMS SHALL BE CONTENTIOUS AROUND CORNERS OR HAVE BENT (CORNER) BARS OF THE SAME SIZE AND A LAP AS NOTED ABOVE. VERTICAL STEEL SHALL CONTINUE THROUGH BOND BEAMS. PROVIDE STANDARD TRUSS TYPE JOINT REINFORCING AT 16" O.C. USE PREFABRICATED CORNERS AND TEES AT ALL WALL CORNERS AND INTERSECTIONS RESPECTIVELY
10. ALL MASONRY WALL CONFIGURATIONS INCLUDING WALL OPENINGS SHALL BE COORDINATED WITH CIVIL, MECHANICAL, PLUMBING, ELECTRICAL, AND DRAWING FROM ALL OTHER DISCIPLINES.

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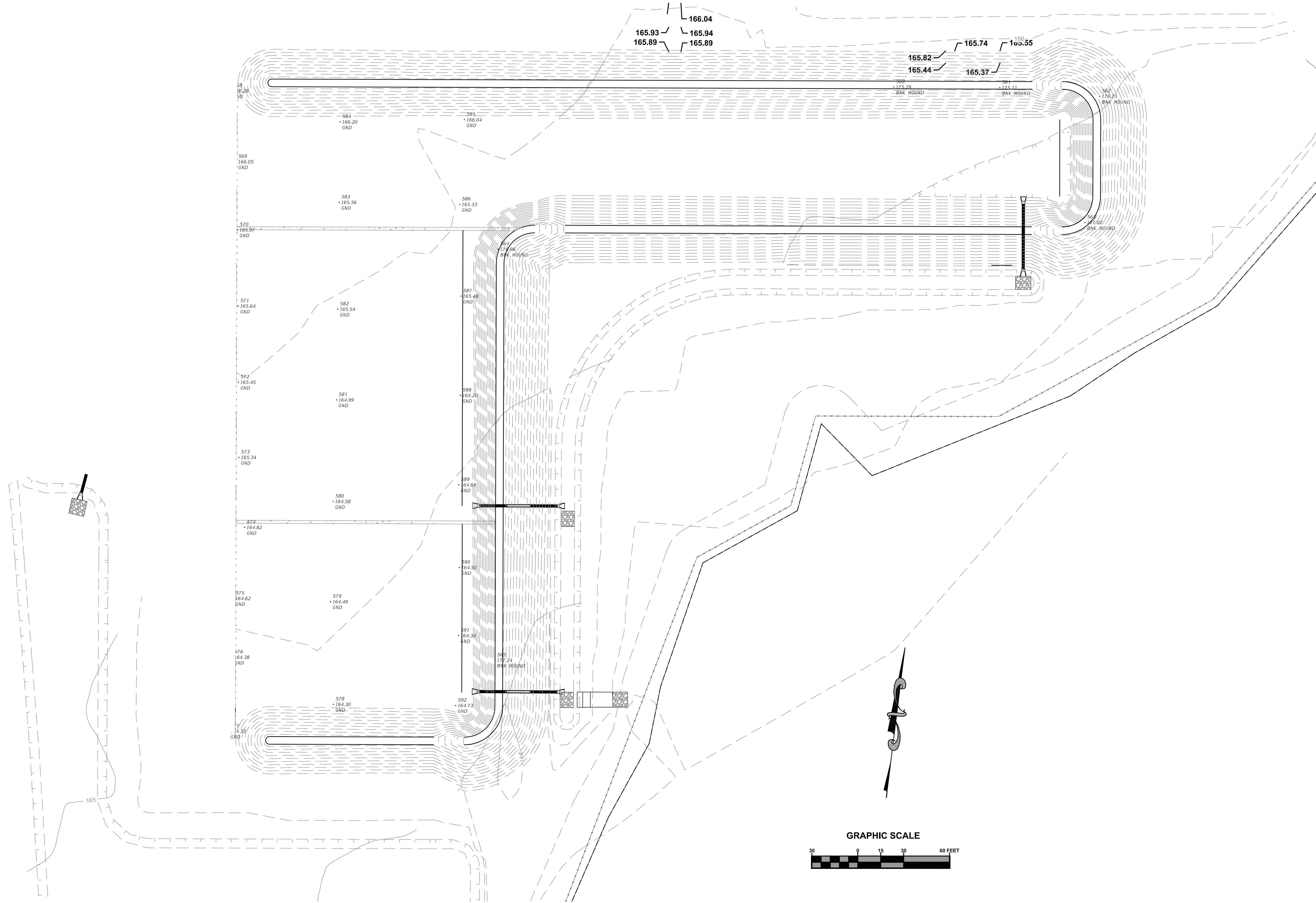
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STRUCTURAL NOTES

PROJECT #: 2032-062	DWG #: S-002	REV #: 0
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GUN RANGE SITE PLAN
CDL TRAINING COURSE
 EDA INVESTMENT NO. 04-79-07399, ----

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