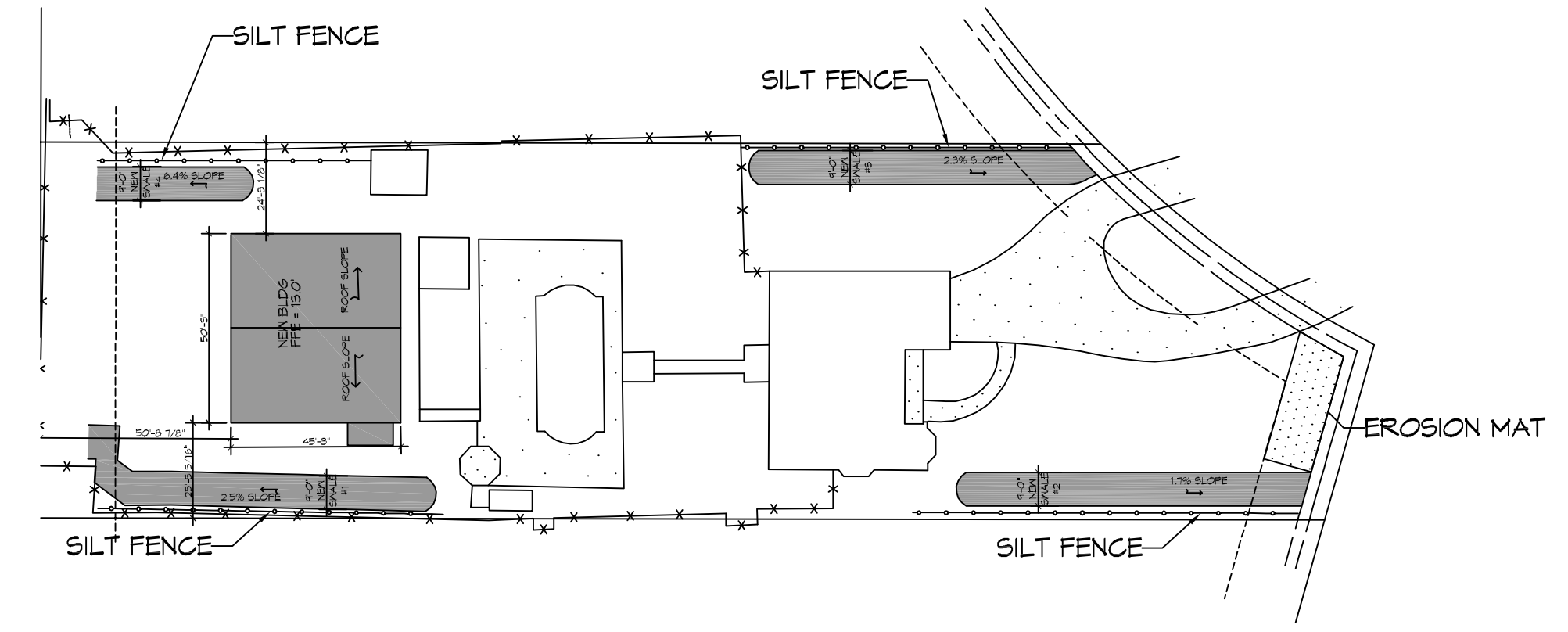


CUT/FILL CALCS	
FILL MITIGATION VOLUME; Bldg	42.5 sf x 40 lft) = 1,700 cf
CUT	
Swale #1 Volume =	(Length = 99 Linear Feet) x (Avg Area = 6.75 S.F. = 668.25 cf
Swale #2 Volume =	(Length = 89 Linear Feet) x (Avg Area = 3.75 S.F. = 333.75 cf
Swale #3 Volume =	(Length = 88 Linear Feet) x (Avg Area = 7.0 S.F. = 616.00 cf
Swale #4 Volume =	(Length = 39 Linear Feet) x (Avg Area = 6.75 S.F. = 263.25 cf
TOTAL CUT	= 1881 cf
ALL CUT TO BE REMOVED OFFSITE	

3 CUT / FILL CALCULATIONS
SCALE: N.T.S.



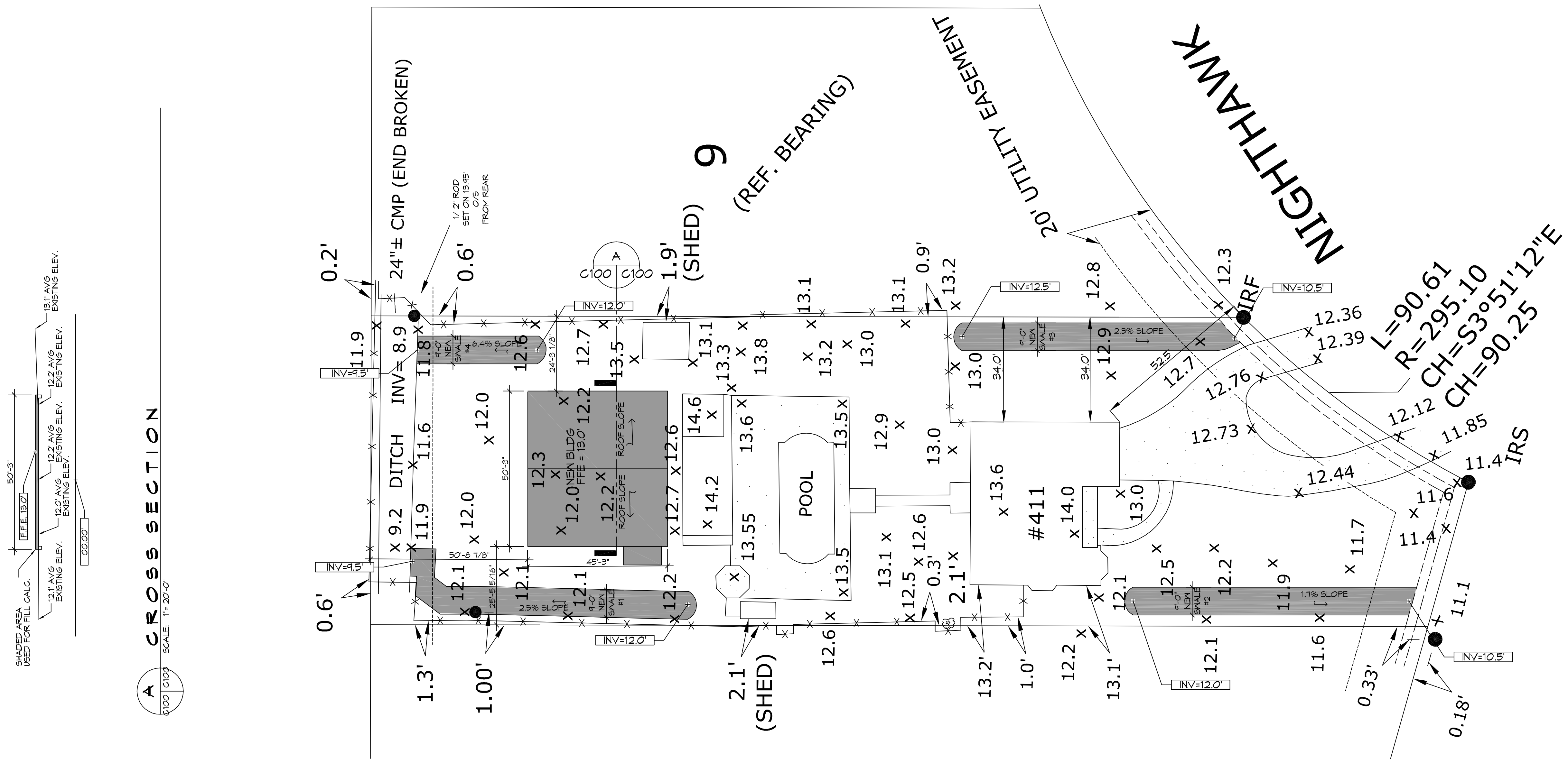
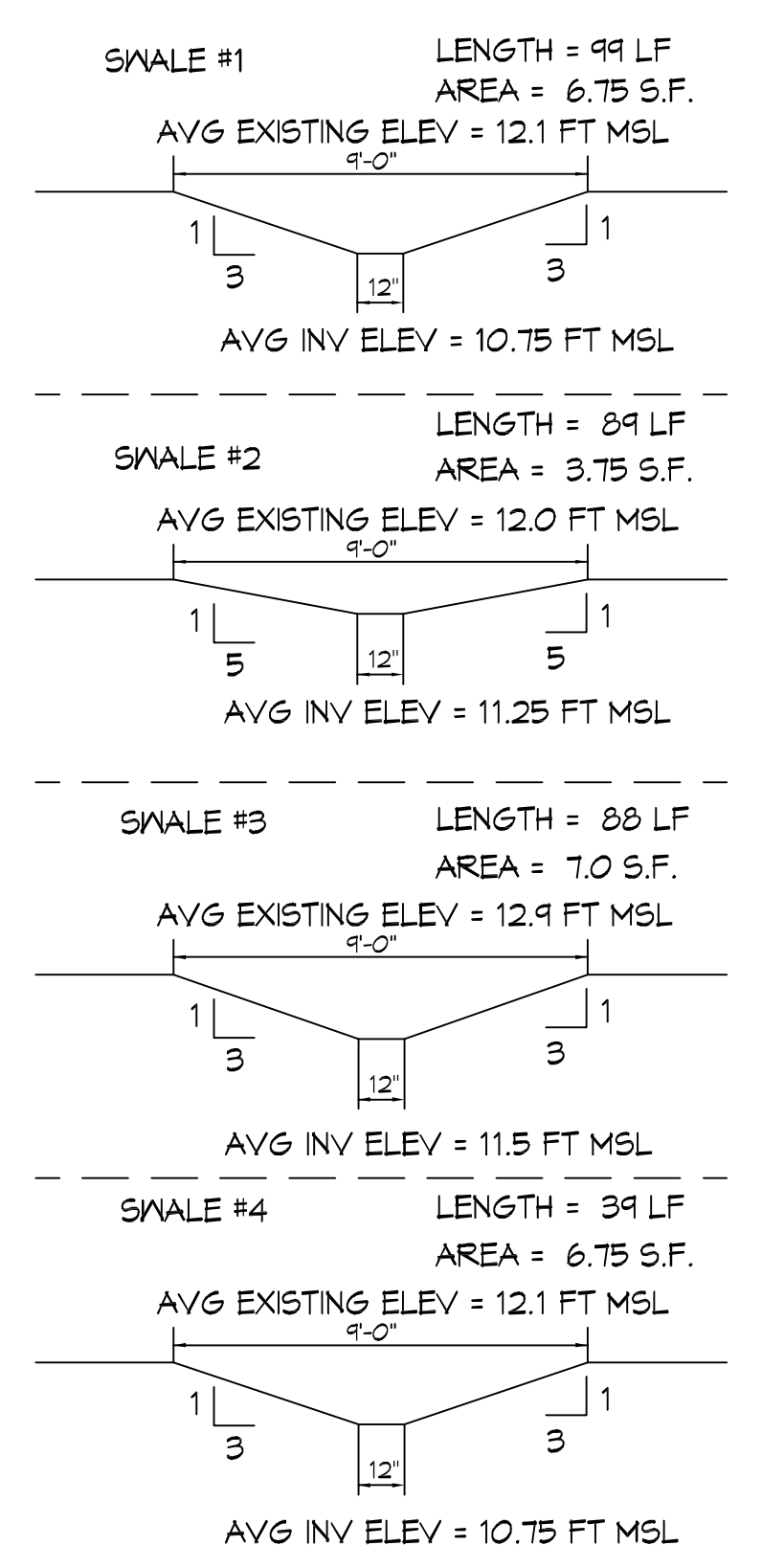
4 EROSION CONTROL MEASURES
SCALE: N.T.S.

DRAINAGE NOTES

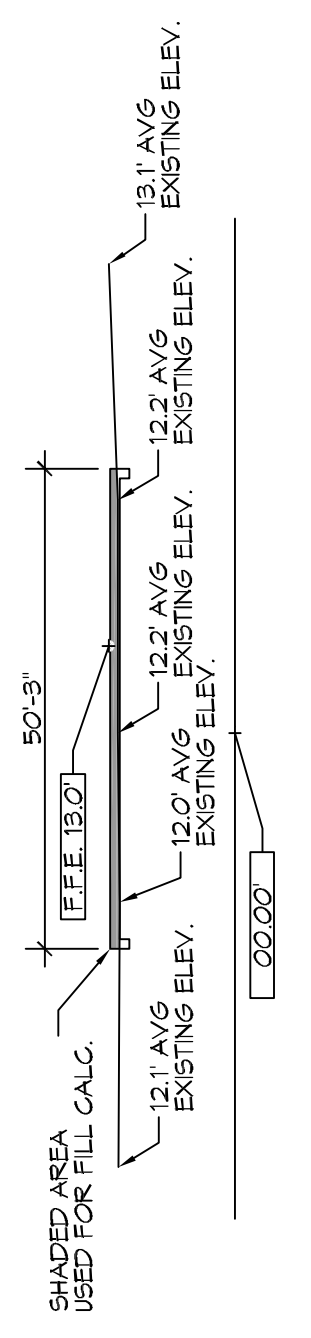
- FIELD VERIFY ALL ELEVATIONS AND AND DRAINAGE SYSTEM PLACEMENT PRIOR TO START OF WORK.
- PROVIDE VERTICAL ELBOW AT DOWNSPOUTS FOR CONNECTION TO SUBSURFACE DRAINAGE WHERE INDICATED. ELBOW ID SHALL BE SIZED SUCH THAT THE DOWNSPOUT CAN BE INSERTED INTO THE PIPE OPENING WITHOUT DEFORMATION TO THE DOWNSPOUT.

DRAINAGE LEGEND

- INVERT SYMBOL → INVERT, BOTTOM OF SWALE
- SLOPE SYMBOL → DRAINAGE SLOPE
- EROSION MAT SYMBOL → EROSION MAT
- SILT FENCE SYMBOL → SILT FENCE
- EXISTING BOARD FENCE TO REMAIN SYMBOL → EXISTING BOARD FENCE TO REMAIN.
- X 13.0 → SPOT ELEVATION



A CROSS SECTION
SCALE: 1" = 20'-0"



1 DRAINAGE PLAN
SCALE: 1" = 20'-0"

DAMMON ENGINEERING, INC.
LOUISIANA & MISSISSIPPI

Chief Engineer: Brian Metch, P.E.
354 Old Spanish Trail
Shreveport, LA 71208
www.dammonengineering.com
info@dammonengineering.com
PH: 987.671.8282

#	DESCRIPTION	REVISIONS	DATE



NEW BLDG

KERRI LAWLESS

411 NIGHTHAWK DR.
SLIDELL, LA 70459
JOB NO: 2020 DATE: 12-10-2020
DRAWN BY: BMM CHECKED BY: CACD

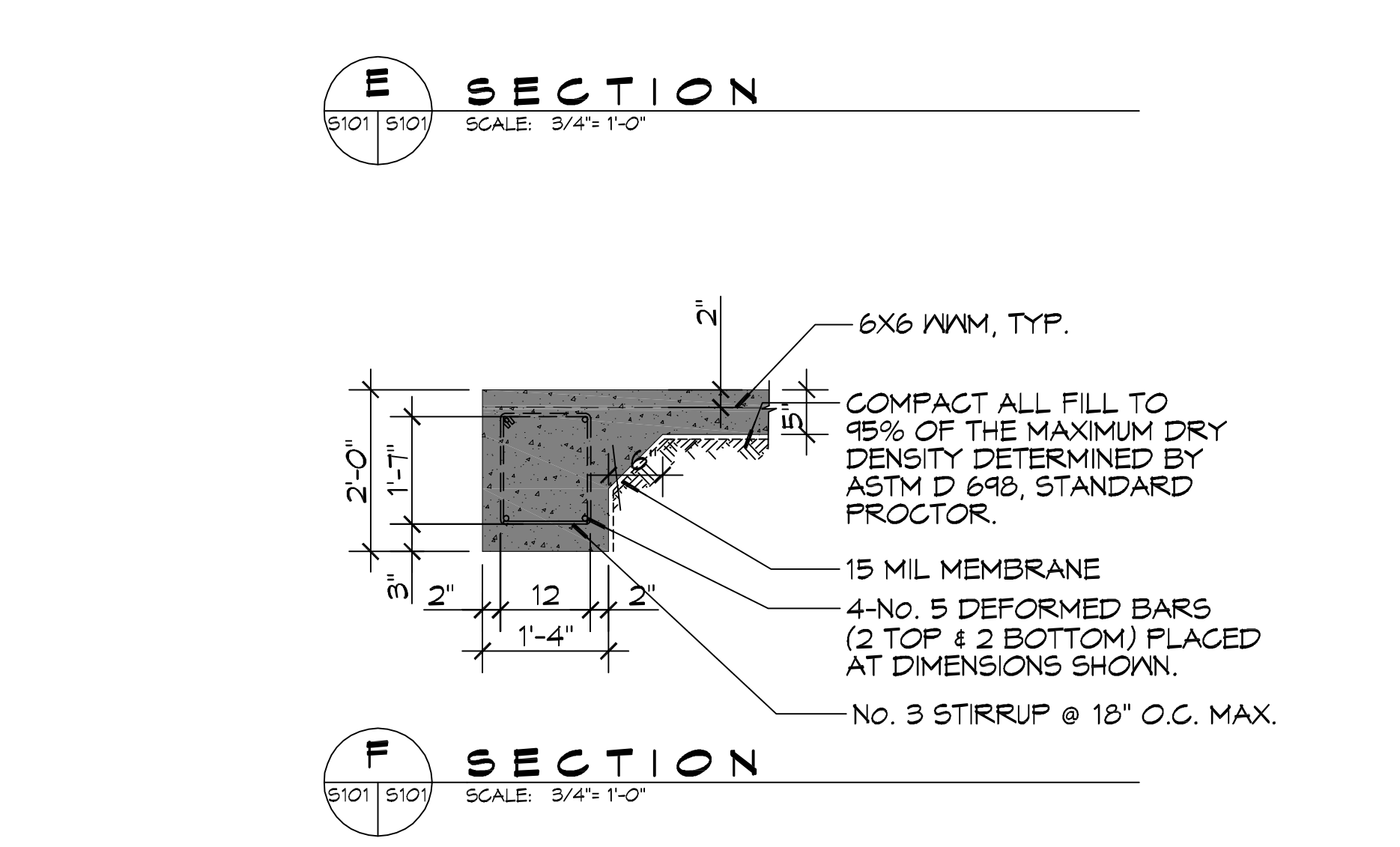
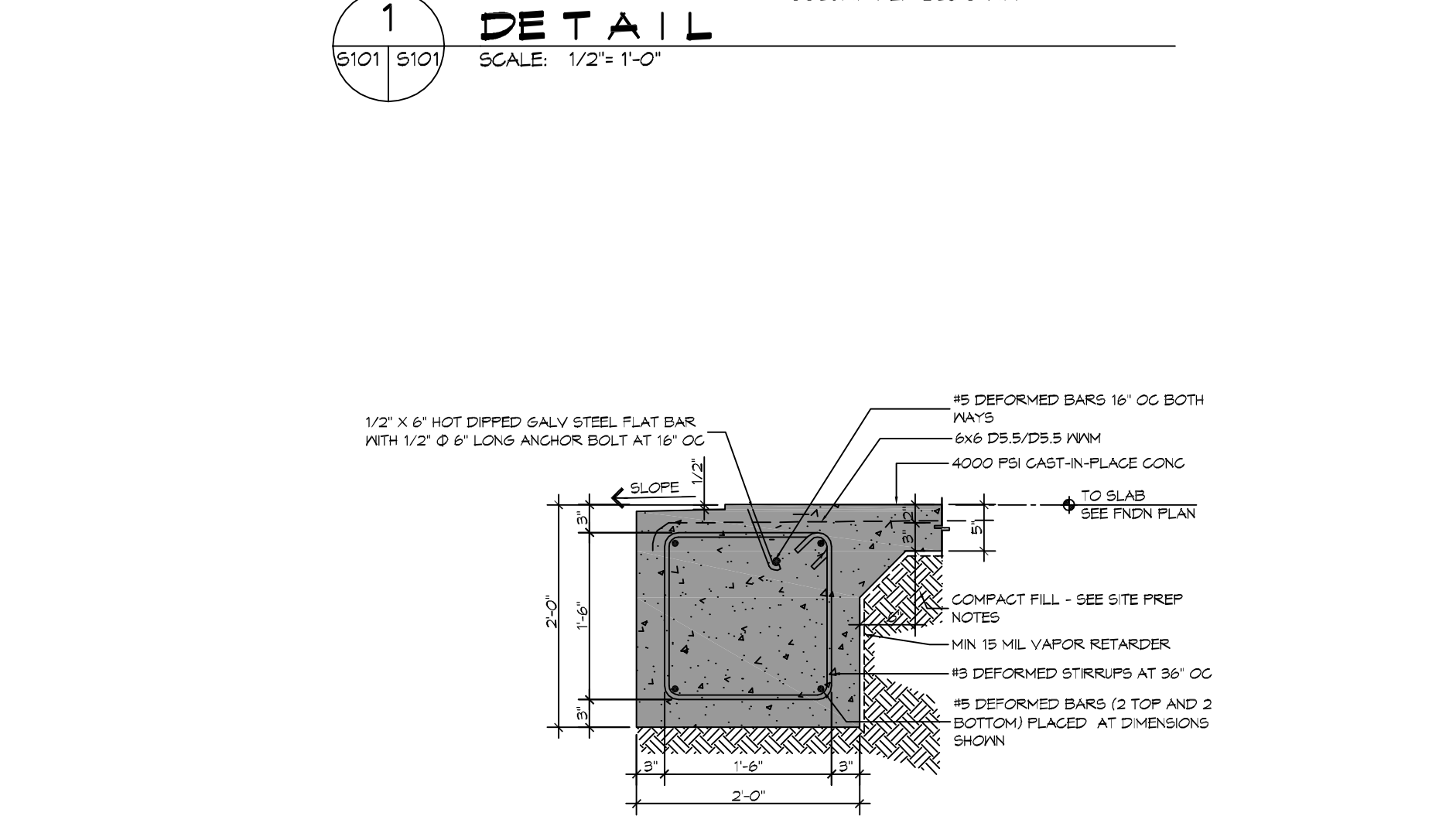
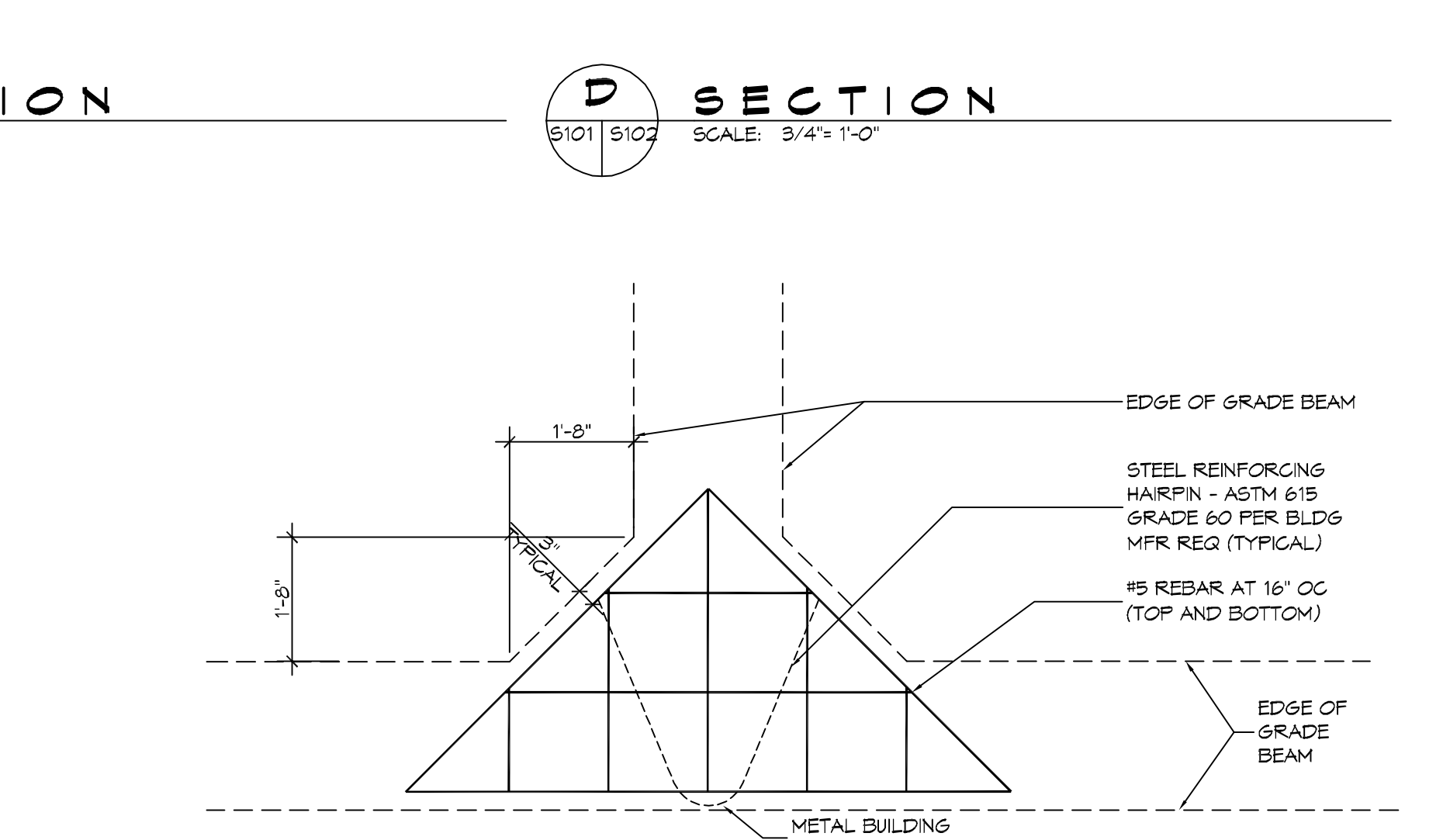
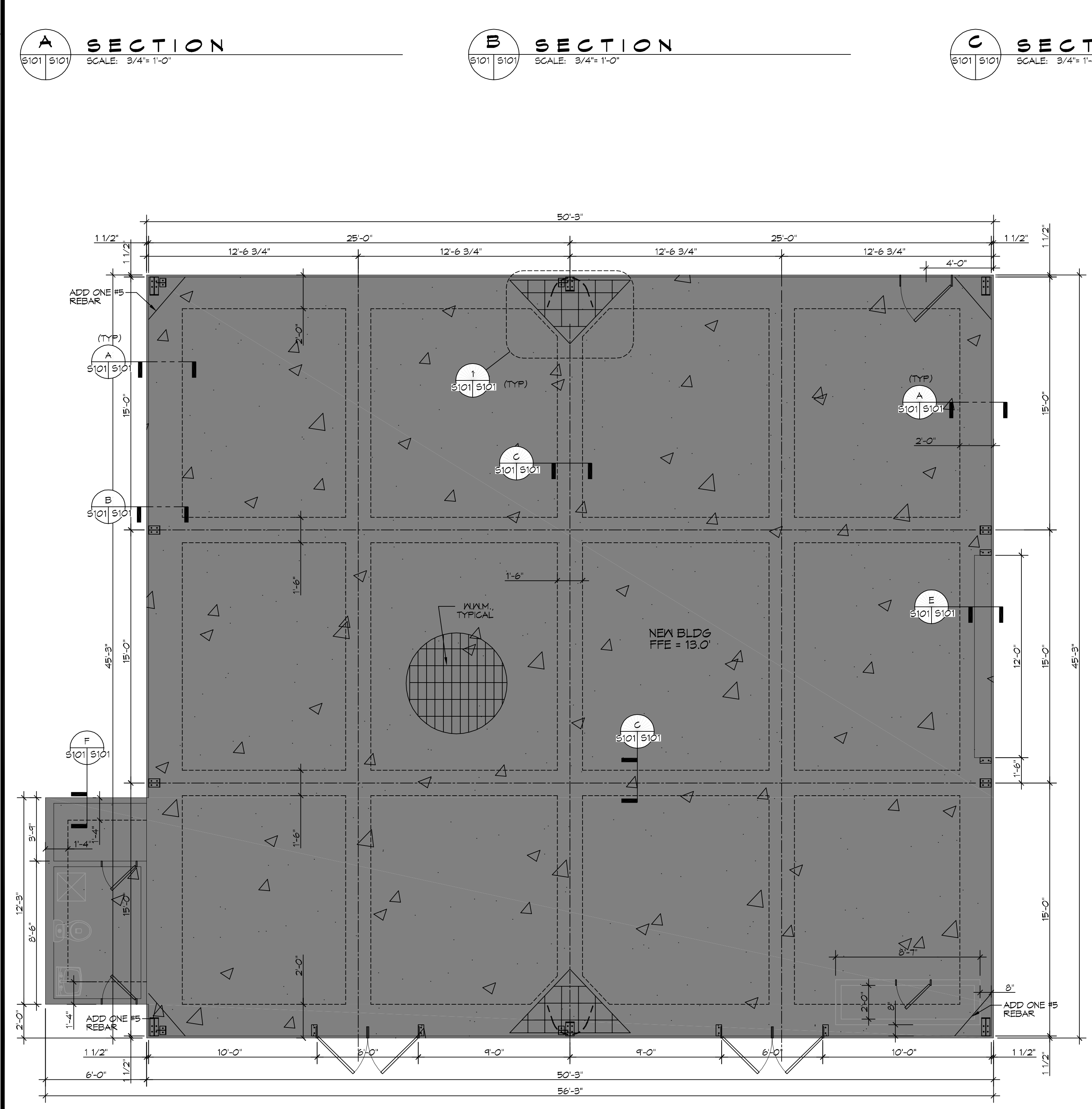
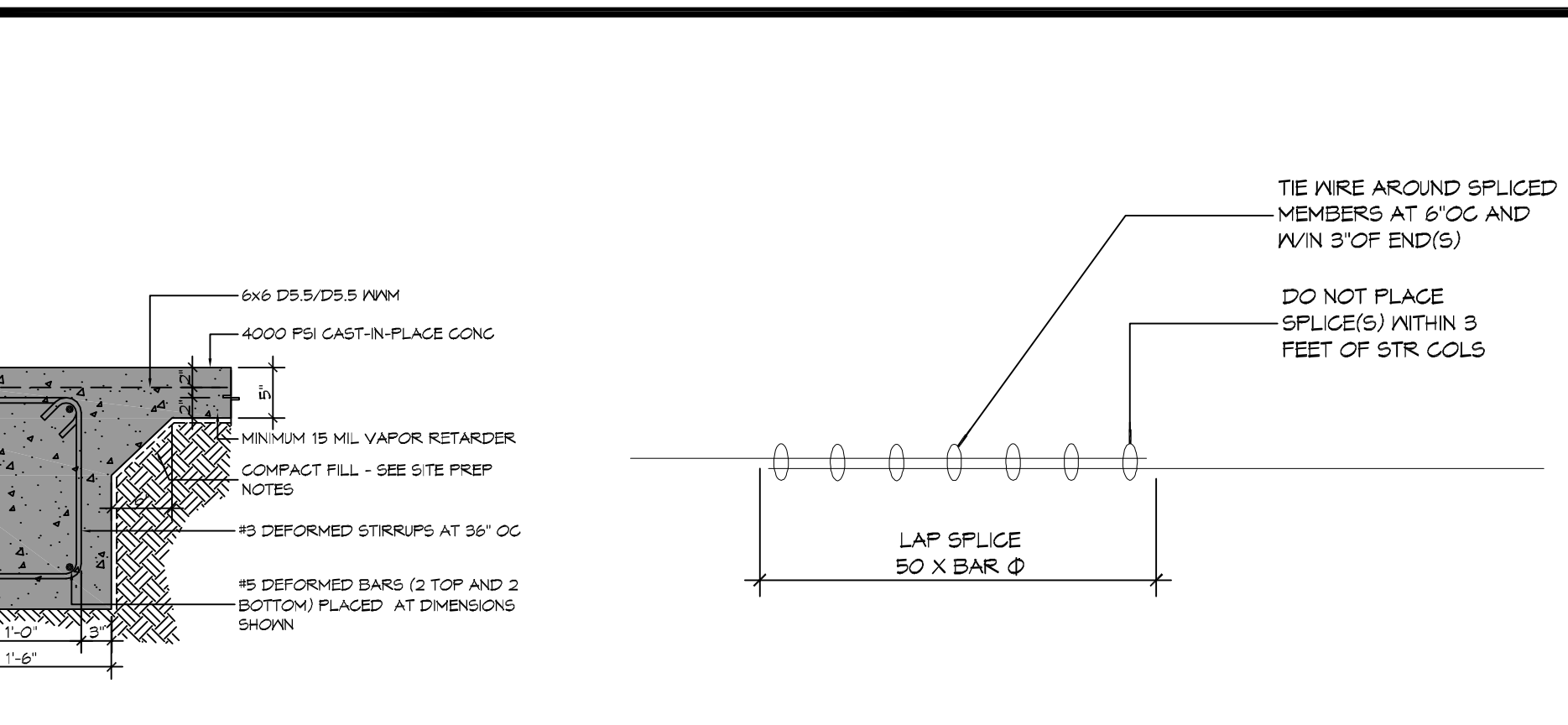
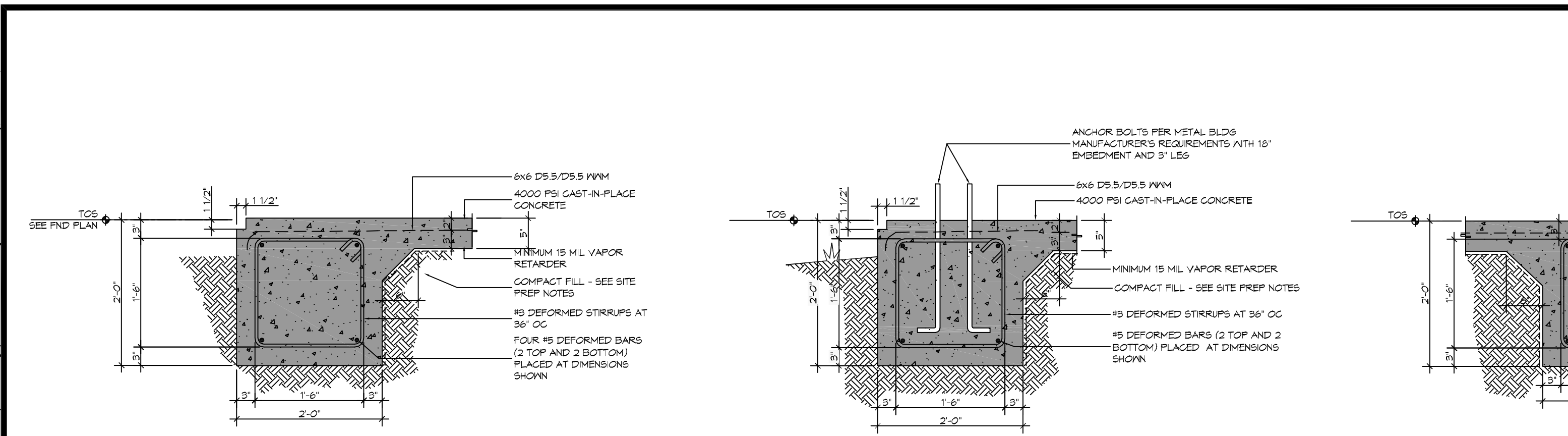
SHEET TITLE:
SITE DRAINAGE PLAN AND
CUT FILL CALCULATIONS

DRAWING NUMBER:
C100

SHEET No: 1 of 2

NOTE: THIS PLAN BASED ON SURVEY BY LESTER H. MARTIN JR.

FILE NAME: S:\RESOURCES\Users\james.dammmon\Projects\2022\2022-01-14\2022-01-14.dwg



GENERAL FOUNDATION NOTES

1. THE CONCRETE MIX SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS. CONCRETE MIX SHALL BE IN ACCORDANCE WITH ACI-318.
2. ALL CONVENTIONAL REINFORCING SHALL MEET ASTM-A615 (GRADE 60).
3. ONE LAYER OF POLYETHYLENE VAPOR BARRIER SHALL BE PLACED UNDER ALL CONCRETE. VAPOR RETARDER TO BE 15 MIL. STRENGTH; ASTM E1745 CLASS A, PERMEANCE LESS THAN 0.01 PERMS, EQUAL TO STEGO INDUSTRIES STEGO WRAP ECO-SHIELD-E 15 MIL. BY EPRO OR IRONBAR 15 BY FLATIRON FILMS. PROVIDE APPROPRIATE ACCESSORIES FOR A COMPLETE SYSTEM.
4. ALL REINFORCING STEEL AND MESH SHALL BE SECURELY SUPPORTED TO PREVENT BOTH VERTICAL AND HORIZONTAL MOVEMENT DURING CONCRETE PLACEMENT.
5. THE CONTRACTOR SHALL VERIFY ALL DROPS, OFFSETS, CUR LIDGES, DIMENSIONS, AND CONFIGURATIONS. CONTRACTOR MUST BE RESPONSIBLE FOR SAME.
6. VERIFY ALL PLUMBING ROUGH-IN LOCATIONS ON SHEET P101 & ELECTRICAL ROUGH-IN LOCATIONS ON SHEET E101.
7. GRADE BEAM SIZES MAY VARY BY -5% TO +20%.
8. ALL SUBGRADE FILL SHALL BE SELECT GRANULAR MATERIAL COMPACTED TO 95% STANDARD PROCTOR DENSITY IN A MAXIMUM OF 6' LIFTS.
9. A MINIMUM OF 5' CONCRETE THICKNESS SHALL BE MAINTAINED THROUGHOUT THE SLAB.
10. ALL RUNOFF WATER MUST BE CARRIED AWAY FROM THE SLAB TO PREVENT SATURATION OF THE SUB-BASE.
11. ALL TREES WITHIN CLOSE PROXIMITY SHALL BE REMOVED TO PREVENT THE ROOTS FROM EXTENDING UNDER THE SLAB.
12. PROVIDE AND MAINTAIN IMMEDIATE SITE DRAINAGE BEFORE, DURING, AND AFTER CONSTRUCTION. PROVIDE GRADING, SWELLS, AND SUMP PUMPS AS MAY BE REQUIRED TO IMMEDIATELY DRAIN ALL RAINWATER FROM THE CONSTRUCTION AREA. FOOTING EXCAVATIONS SHOULD BE OBSERVED AND CONCRETE TO BE PLACED AS QUICKLY AS POSSIBLE TO AVOID EXPOSURE OF THE FOOTING BOTTOMS TO WETTING AND DRYING. SURFACE RUNOFF WATER SHOULD BE DRAINED AWAY FROM THE EXCAVATIONS AND NOT BE ALLOWED TO POND PRIOR TO OR AFTER CONCRETE PLACEMENT. IF IT IS REQUIRED THAT A FOOTING EXCAVATION BE LEFT OPEN FOR MORE THAN ONE DAY, IT SHOULD BE PROTECTED TO REDUCE EVAPORATION OR ENTRY OF MOISTURE.
13. NEW SPREAD CONCRETE FOOTINGS AND CONTINUOUS FOOTINGS BEARING ON COMPACTED STRUCTURAL FILL, AT LEAST 2 FEET BELOW FINISHED GRADE, SHOULD BE DESIGNED FOR MAXIMUM NET ALLOWABLE BEARING PRESSURES OF 1,200 PSF AND 2,000 PSF RESPECTIVELY, BASED ON DEAD LOADS AND DESIGN LIVE LOADS.
14. TREAT SOIL BELOW SLAB FOR TERMITES.

GENERAL SITEPREP NOTES

1. THE GC SHALL EMPLOY A GEOTECHNICAL ENGINEER TO MONITOR SITE CONDITIONS DURING THE PREP WORK OF THE SITE FOUNDATION. REMOVE EXISTING NEAR SURFACE TOPSOIL WITH ORGANICS AND OTHER DELETERIOUS MATERIALS, APPROXIMATELY 8 TO 10 INCHES HOWEVER THE ACTUAL STRIPPING DEPTH SHALL BE DETERMINED BY A GEOTECHNICAL ENGINEER. THE EXPOSED SUBGRADE IN THE BUILDING AND PARKING AREAS SHALL BE PROOF-ROLLED WITH A RUBBER Tired VEHICLE WEIGHING ABOUT 20 TONS; PROOF-ROLLING SHALL BE MONITORED BY A GEOTECHNICAL ENGINEER. ANY SOILS WHICH ARE OBSERVED TO RUT OR DEFLECT EXCESSIVELY UNDER THE MOVING LOAD SHOULD BE UNDERCUT AND REPLACED WITH COMPACTED STRUCTURAL FILL.
2. THE STRUCTURAL FILL SHALL BE SELECT GRANULAR MATERIAL AND SHALL BE PLACED IN MAXIMUM LIFTS OF EIGHT (8) INCHES OF LOOSE MATERIAL, COMPACTED WITHIN THE RANGE OF ONE (1) PERCENTAGE POINT BELOW TO THREE (3) PERCENTAGE POINTS ABOVE THE OPTIMUM MOISTURE CONTENT VALUE. IF WATER MUST BE ADDED, IT SHALL BE UNIFORMLY APPLIED AND THOROUGHLY MIXED INTO THE SOIL BY DISKING OR SCARIFYING. EACH LIFT OF COMPACTED STRUCTURAL FILL SHALL BE TESTED BY A REPRESENTATIVE OF THE GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT OF SUBSEQUENT LIFTS. IN-PLACE DENSITY MEASUREMENTS SHALL BE TAKEN TO ASSURE THAT THE ABOVE DEGREE OF COMPACTATION IS ACHIEVED. THE COMPACTED STRUCTURAL FILL SHALL EXTEND FIVE (5) FEET BEYOND THE PERIMETER OF THE BUILDING PRIOR TO SLOPING.
3. ALL RUNOFF WATER MUST BE CARRIED AWAY FROM THE SLAB TO PREVENT SATURATION OF THE SUB-BASE.
4. ALL TREES WITHIN CLOSE PROXIMITY SHALL BE REMOVED TO PREVENT THE ROOTS FROM EXTENDING UNDER THE SLAB.
5. PROVIDE AND MAINTAIN IMMEDIATE SITE DRAINAGE BEFORE, DURING, AND AFTER CONSTRUCTION. PROVIDE GRADING, SWELLS, AND SUMP PUMPS AS MAY BE REQUIRED TO IMMEDIATELY DRAIN ALL RAINWATER FROM THE CONSTRUCTION AREA. FOOTING EXCAVATIONS SHOULD BE OBSERVED AND CONCRETE PLACED AS QUICKLY AS POSSIBLE TO AVOID EXPOSURE OF THE FOOTING BOTTOMS TO WETTING AND DRYING. SURFACE RUNOFF WATER SHOULD BE DRAINED AWAY FROM THE EXCAVATIONS AND NOT BE ALLOWED TO POND PRIOR TO OR AFTER CONCRETE PLACEMENT. IF IT IS REQUIRED THAT A FOOTING EXCAVATION BE LEFT OPEN FOR MORE THAN ONE DAY, THEY SHOULD BE PROTECTED TO REDUCE EVAPORATION OR ENTRY OF MOISTURE.

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LOUISIANA & MISSISSIPPI

Chief Engineer: Brian Metch, PE
554 Old Spanish Trail
Slidell, LA 70688
www.dammoneengineering.com
info@dammoneengineering.com
PH: 985.649.5832

DATE	REVISIONS	DESCRIPTION



KERRI LAWLESS

NEW BLDGS

2022 DATE: 12-10-2022
JOB NO: 2022-01-14
DRAWN BY: BAW
CKD CHECKED BY: BAW

SHEET TITLE:
FOUNDATION PLAN AND DETAILS

DRAWING NUMBER:
S101

SHEET No: 2 of 2