

**ADDENDUM 1**  
CITY OF FAIRHOPE

**Bid 007-20 New Substation Site Work at Nichols and Young**

ADDITION: Additional drawings are attached.

Bidders are to sign and include signed **Addendum 1** with submitted bid documents.

Acknowledged:

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Company

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By

Purchasing Manager  
City of Fairhope

Posted: [Click or tap to enter a date.](#)

1.0 Materials

1.1 Sheet Piling

All sheet piling shall be manufactured entirely from a rigid, high impact, UV-inhibited, weather able vinyl compound. All exposed surfaces of the sheet piling shall be UV resistant, and comprised of virgin material with a minimum ASTM D4216 Cell Classification of 1-42443-33 to ensure reliable performance and color consistency. Sheet pile material shall be ShoreGuard SG-625 vinyl sheet pile as detailed. Design stress for vinyl sheet pile shall not exceed 3,200 psi.

1.2 Alternate Materials

Alternate products will not be allowed. Use of alternate sheet pile or other products specified will result in invalidation of this design and breach of contract.

1.3 Backfill

Backfill shall be free from all unsuitable and deleterious materials. All backfill supplied shall meet the requirements for ALDOT Section 529.02 Backfill Materials.

1.4 Sealant

Sealant should be Adeka Ultraseal P200.

1.5 Acceptable Material Providers for Vinyl sheet piling and TimberGuard.

**CMI Limited Co.**  
1165 Northchase Pkwy  
Suite 300  
Marietta, GA 30067  
Phone: 770-933-8166

2.0 Submittals

The contractor shall submit material certifications for all sheet piling.

3.0 Backfill

3.1 Backfill materials shall be provided in accordance with the requirements of Section 1.3.

3.2 The contractor shall clear and grub the existing surface area to remove all organic and other deleterious materials prior to construction. If found, unsuitable soil materials shall be over-excavated and replaced at the direction of the Engineer. The Engineer shall inspect and approve the existing area prior to commencement of the backfill placement.

3.3 All backfill shall be placed and compacted in accordance with the contract specifications and these general notes. Backfill shall be placed and compacted in no greater than 10" loose lifts. Backfill shall be compacted to 95% of maximum dry density in accordance with ASTM D698, Standard Proctor.

3.4 Only hand operated compaction equipment will be allowed within 3 ft. from wall face.

4.0 Drainage

4.1 The contractor will be responsible for surface water control during construction. The contractor will restore proper grading after construction to ensure proper surface water control.

4.2 Subsurface water control measures are not intended to compensate for lack of proper surface water control measures.

4.3 All new walls constructed shall receive 2.5" ABS Jet-Filters installed @ 6'-0" O.C. as shown in plans. Weep holes shall be cut into existing wall at a similar spacing. At a minimum, weep holes in existing wall shall be covered with a non-woven geotextile until fill is place in the void.

5.0 Construction

5.1 The contractor shall be responsible for establishing the alignment of the wall.

5.2 Pulling and Splicing

Splicing of vinyl sheet piles will not be allowed. Piling may be pulled if necessary and may be re-used at the direction of the Engineer. Reuse of pulled vinyl sheet piling is generally discouraged.

5.3 The contractor shall submit descriptions of sheet pile driving equipment prior to the commencement of the work for approval by the Engineer.

5.4 Sheet piling shall be placed and driven to allow for interlock throughout their entire length. Piling shall be placed plumb and true to line.

5.5 Provide temporary wales, templates and other guide structures necessary to ensure piles are driven to the correct alignment. It may be necessary to employ leading edge guide piles to ensure correct alignment. Where possible drive sheet pile with the male edge leading.

5.6 The contractor shall submit records of the completed sheet piling operations, including a system of identification which shows the deposition of the approved piling in the work, driving equipment performance data, piling penetration rate, piling dimensions and top and bottom elevations of installed piling.

5.7 If obstructions restrict driving of piling to the specified penetration, the obstructions shall be removed or penetrated. Pre-augering or spudding of piling may also be used.

5.8 The contractor will perform continuous inspection of the work to ensure proper alignment.

5.9 Installation of timber piling shall be in accordance with ALDOT Section 509.

6.0 Measurement and Payment

Payment for the sheet piling wall will be made in accordance with the contract documents.

7.0 References

- 7.1 EM 1110-2-2504 Design of Sheet Pile Walls, US Army Corps of Engineers, 1994
- 7.2 EC 1110-2-6066 Engineering and Design of I-Walls US, Army Corps of Engineers, April 2011
- 7.3 Report of Geotechnical Exploration – Proposed Electrical Substation, prepared by GeoCon Engineering & Materials Testing, Inc., dated April 2019

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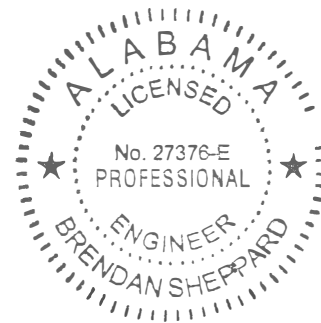
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BRENDAN R. SHEPPARD, PE  
ALABAMA PE# 27376E

The configurations shown are considered typical and for budgetary purposes only. Please rely on your engineer for specific design recommendations. Because of the complexity of geotechnical loading calculations and the susceptibility to extreme change of soil loads with minor changes in local site conditions such as soil parameters, water levels, surcharge loads, etc., we strongly recommend the use of design professionals who are familiar with local wall construction to determine the required sheet piling and component capacities. The material contained within this drawing is not to be used for any project specific design.

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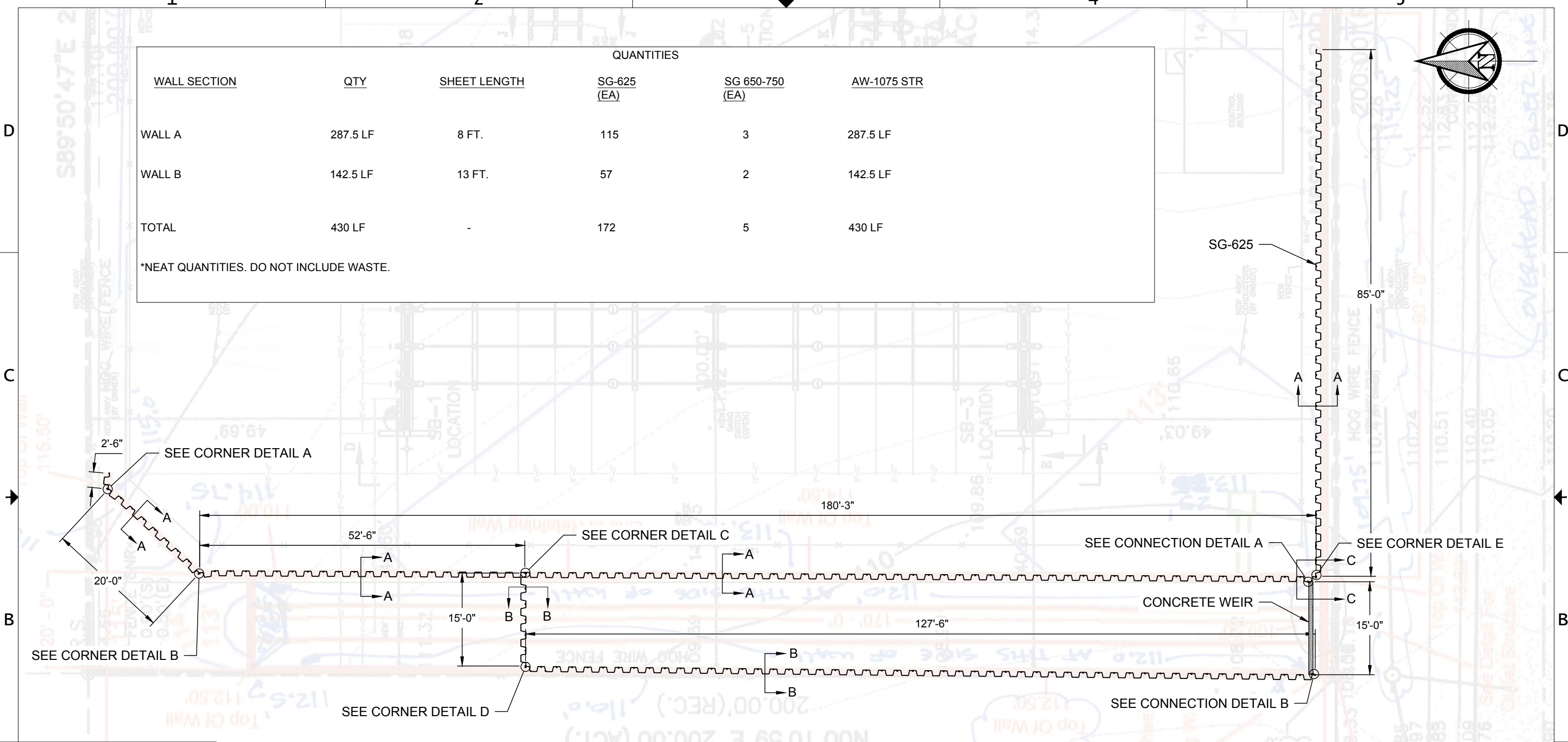
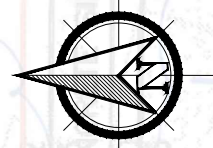
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1	8/20/2019	FOR SUBMITTAL	VRP
2	9/11/2019	FOR SUBMITTAL	VRP

PRODUCT	CLIENT	PROJECT NAME
	City of Fairhope Public Utilities P.O. Drawer 429 Fairhope, Alabama 36533	FAIRHOPE NICHOLS & YOUNG SUBSTATION RETAINING WALL
	1165 NORTHCHASE PARKWAY, SUITE 300 MARIETTA, GEORGIA 30067 P: 770.850.4909   F: 770.933.8363 info@cmitc.com   www.cmitc.com	LOCATION FAIRHOPE, AL

DESIGNER	DATE	CMI PROJECT NO.		
VRP	7/19/2019	2019AL01		
DRAWN	DATE	FILE		
VRP	8/20/2019	2019AL01-REV0.dwg		
CHECKER	DATE	SIZE	SCALE	SHEET
BRS	8/20/2019	B	NTS	1 OF 5

WALL SECTION	QTY	SHEET LENGTH	QUANTITIES		
			SG-625 (EA)	SG 650-750 (EA)	AW-1075 STR
WALL A	287.5 LF	8 FT.	115	3	287.5 LF
WALL B	142.5 LF	13 FT.	57	2	142.5 LF
TOTAL	430 LF	-	172	5	430 LF

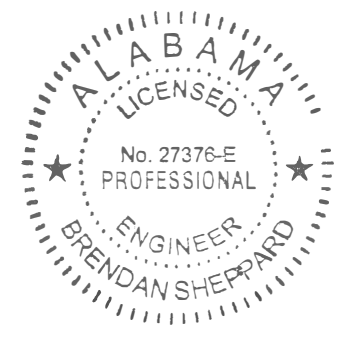
\*NEAT QUANTITIES. DO NOT INCLUDE WASTE.



**OVERALL SITE PLAN**

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

\*CAP NOT SHOWN FOR CLARITY.



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ALABAMA PE# 27376E

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DESIGNER	DATE	CMI PROJECT NO.
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VRP	8/20/2019	2019AL01-REV0.dwg
BRS	8/20/2019	B NTS 2 OF 5

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BRS	8/20/2019	B	NTS

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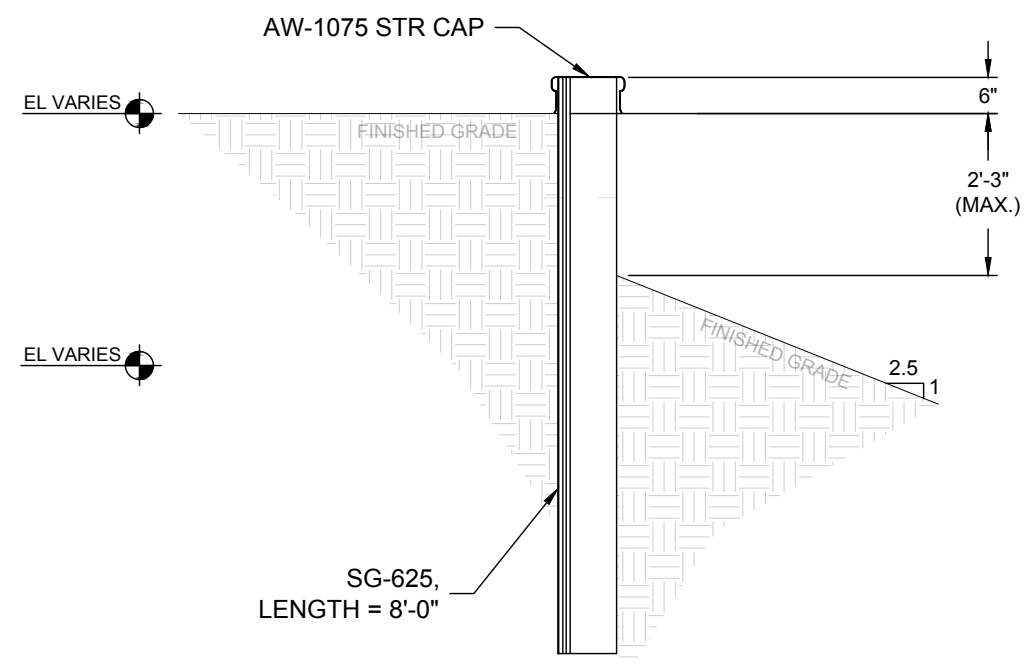
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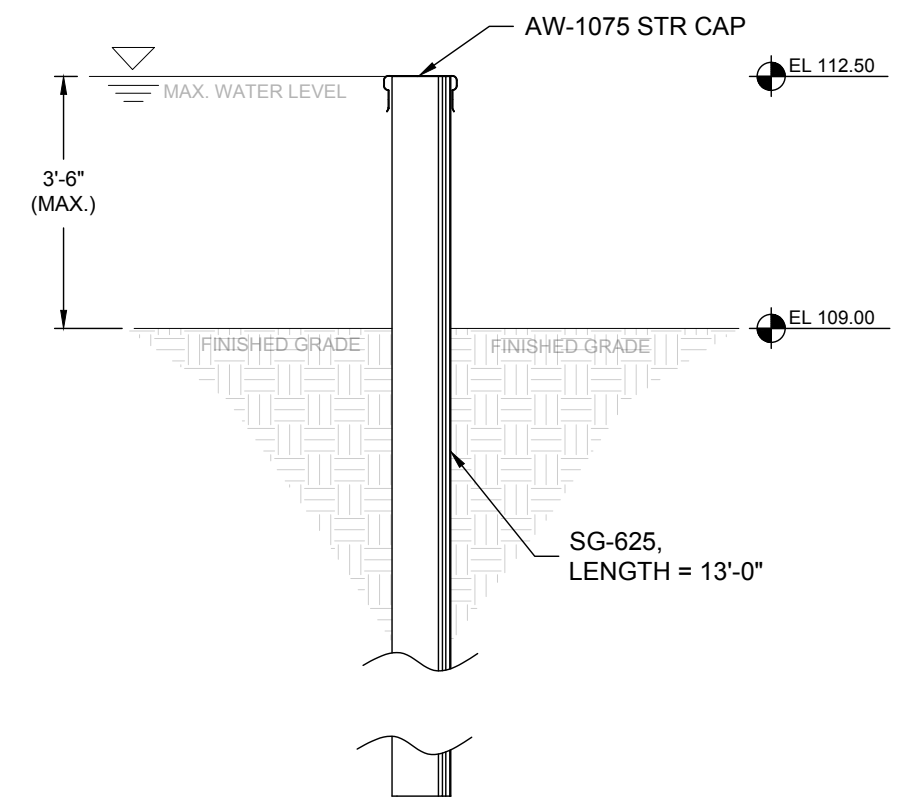
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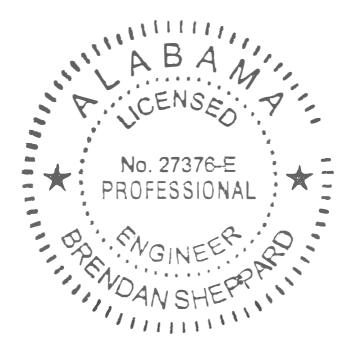
SECTION A-A

SCALE: 3/8"=1'-0"



SECTION B-B

SCALE: 3/8"=1'-0"



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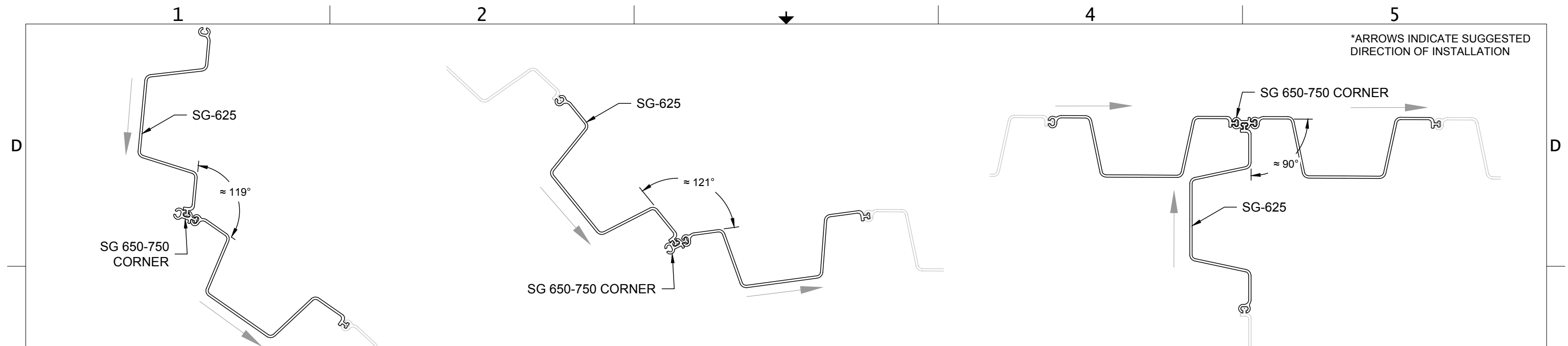
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PROJECT NAME	LOCATION
FAIRHOPE NICHOLS & YOUNG SUBSTATION RETAINING WALL	FAIRHOPE, AL

SHEET TITLE			
TYPICAL CROSS-SECTIONS			
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DRAWN	DATE	FILE	REV
VRP	8/20/2019	2019AL01-REV0.dwg	2
CHECKER	DATE	SIZE	SCALE
BRS	8/20/2019	B	NTS
			SHEET
			3 OF 5

\*ARROWS INDICATE SUGGESTED DIRECTION OF INSTALLATION



**CORNER DETAIL A**

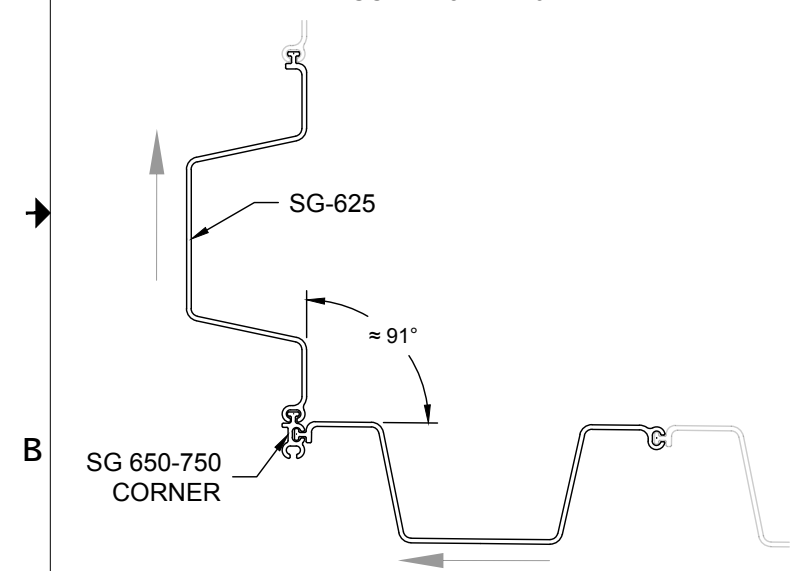
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**CORNER DETAIL B**

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

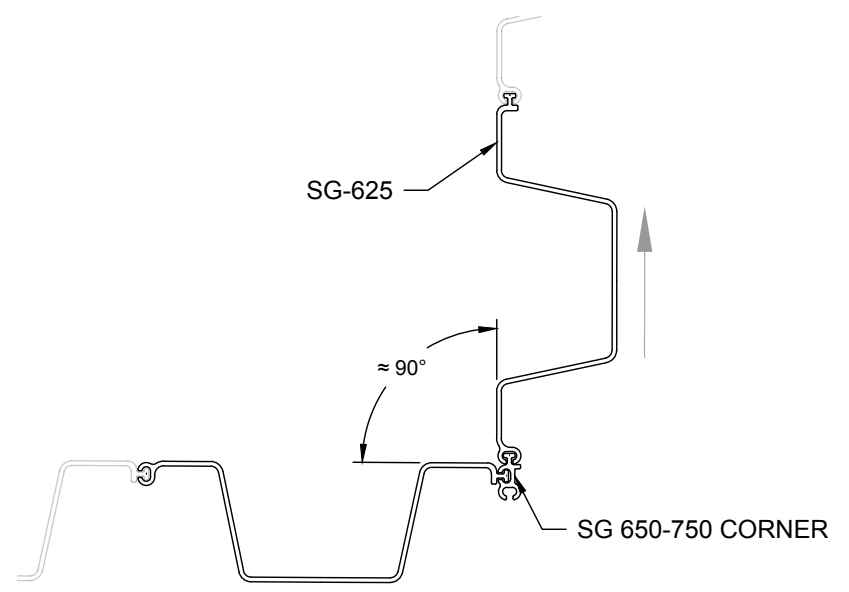
**CORNER DETAIL C**

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



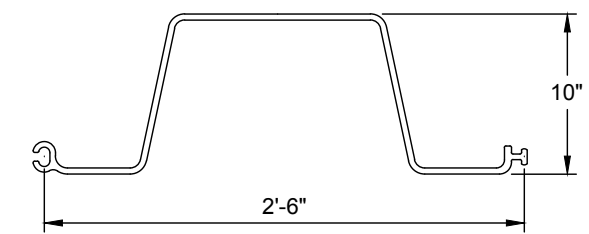
**CORNER DETAIL D**

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



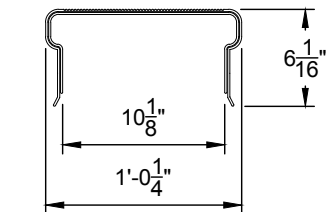
**CORNER DETAIL E**

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



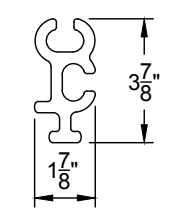
**SG-625 PLAN VIEW**

SCALE: 1"=1'-0"



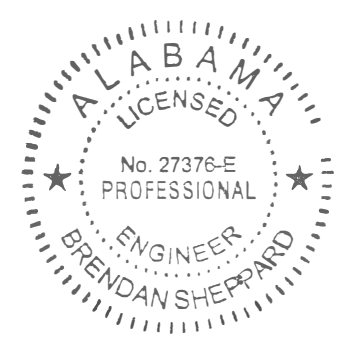
**AW-1075 STR CAP**

SCALE: 1"=1'-0"



**SG 650-750 CORNER**

SCALE: 2"=1'-0"



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ALABAMA PE# 27376E

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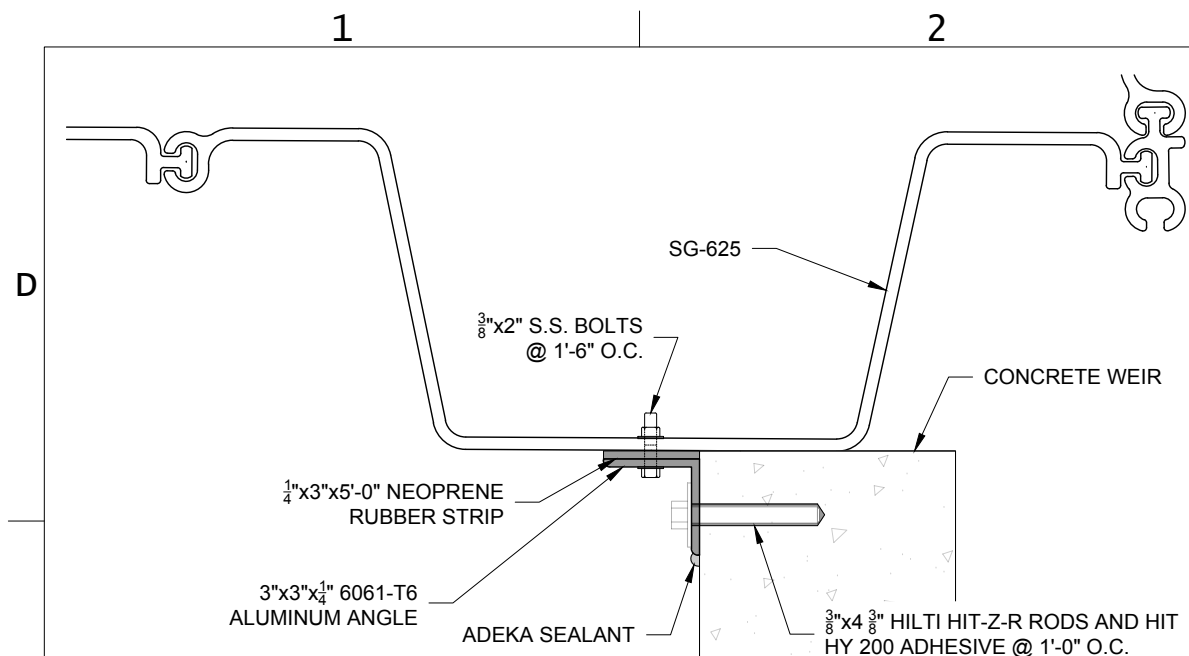
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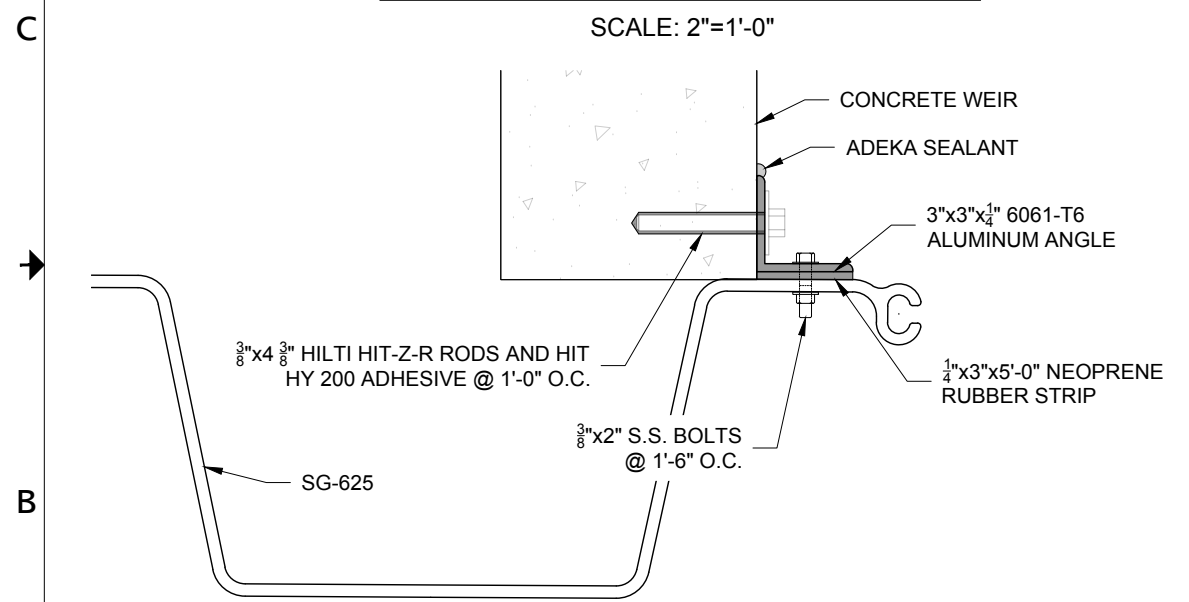
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VRP	8/20/2019	2019AL01-REV0.dwg
BRS	8/20/2019	B NTS 4 OF 5

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BRS	8/20/2019	B NTS	4 OF 5



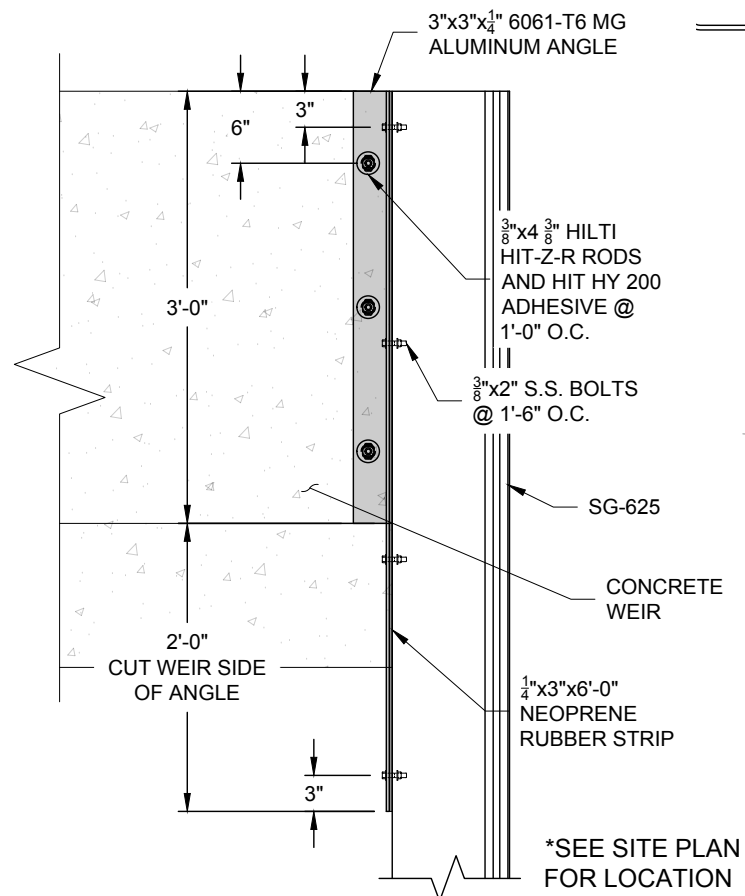
**WEIR CONNECTION DETAIL A**

SCALE: 2"=1'-0"



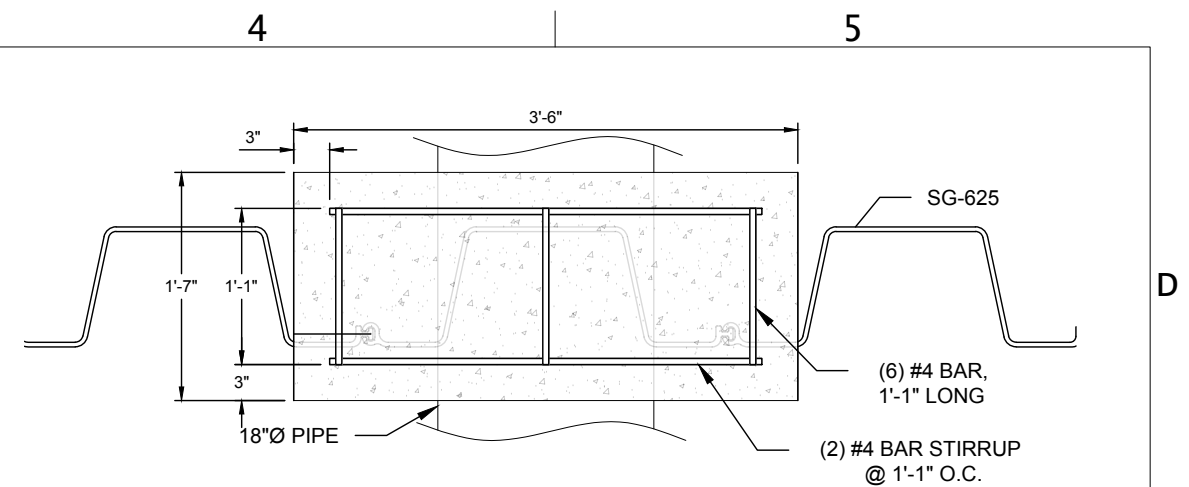
**WEIR CONNECTION DETAIL B**

SCALE: 2"=1'-0"



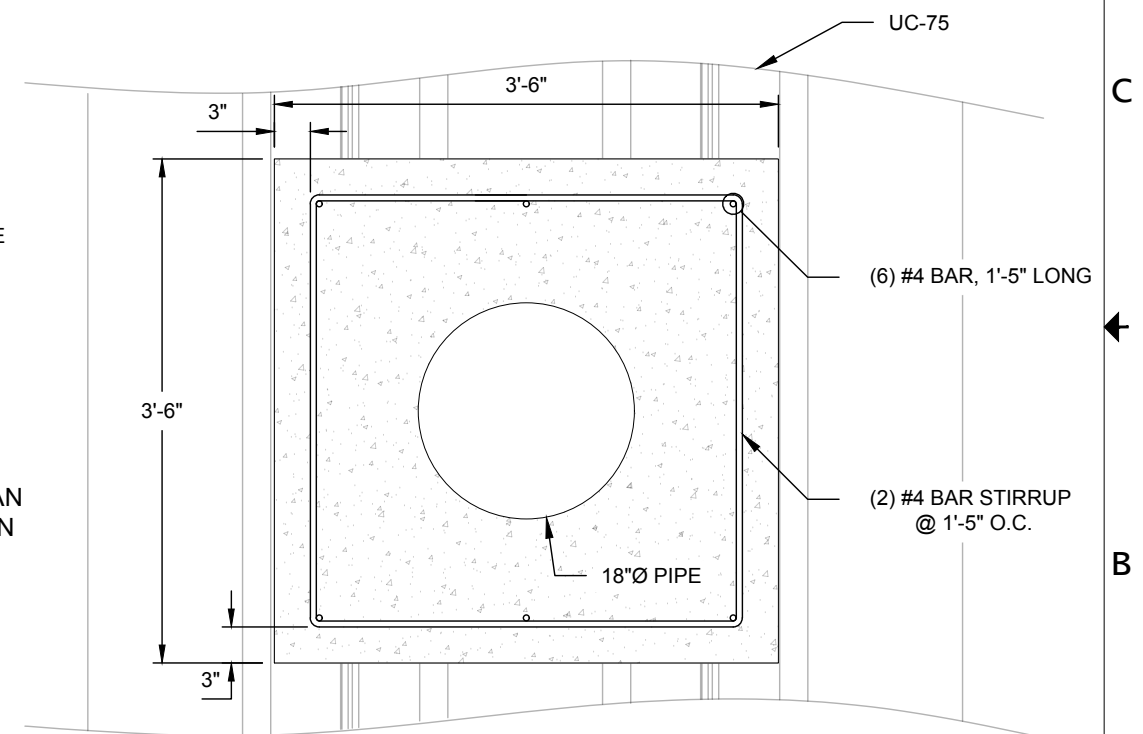
**WEIR CONNECTION DETAIL - ELEVATION VIEW C-C**

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



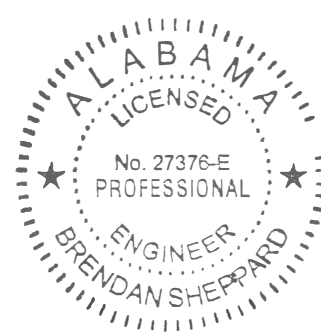
**PIPE COLLAR DETAIL - PLAN VIEW**

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



**PIPE COLLAR DETAIL - PROFILE VIEW**

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



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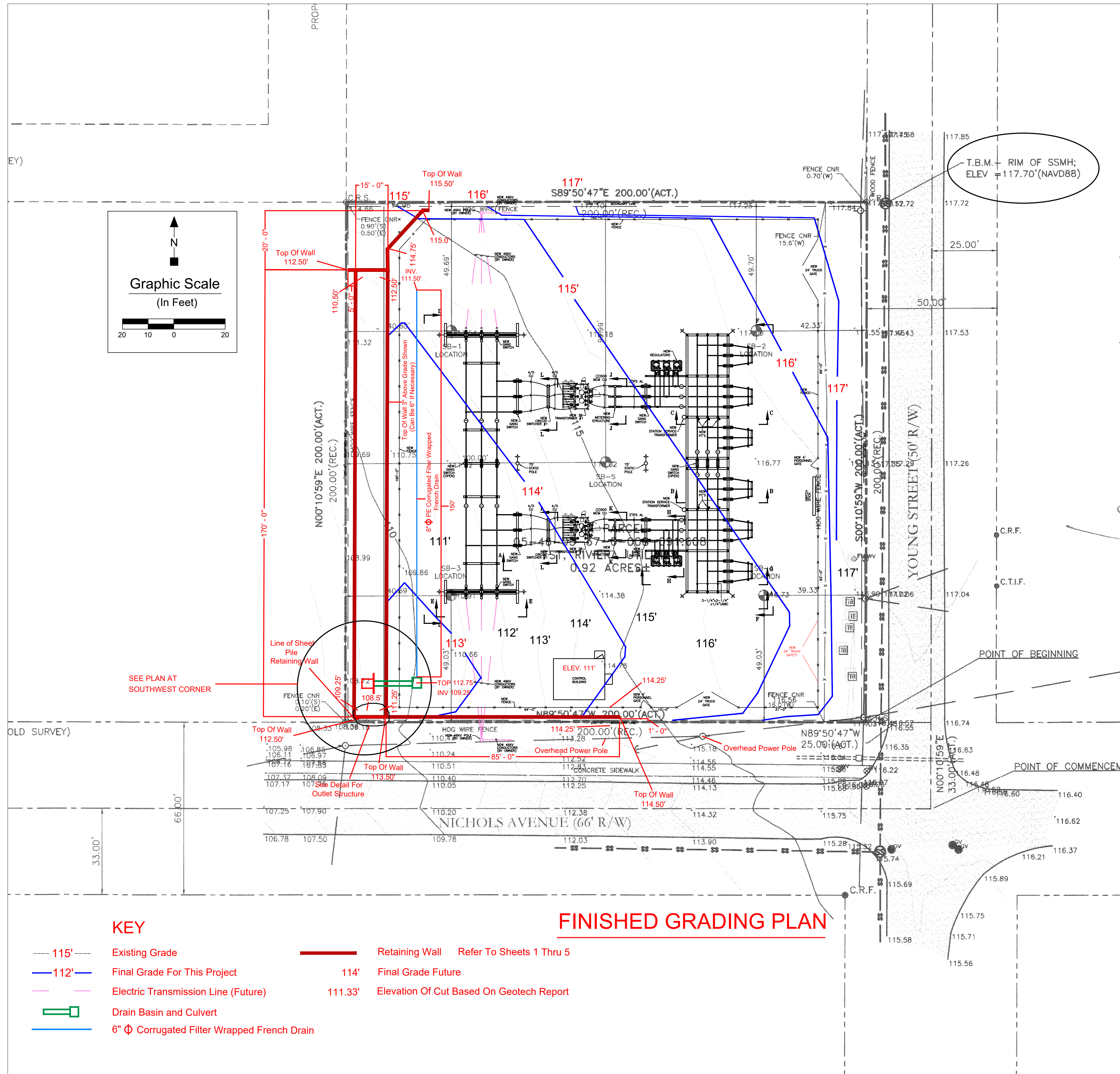
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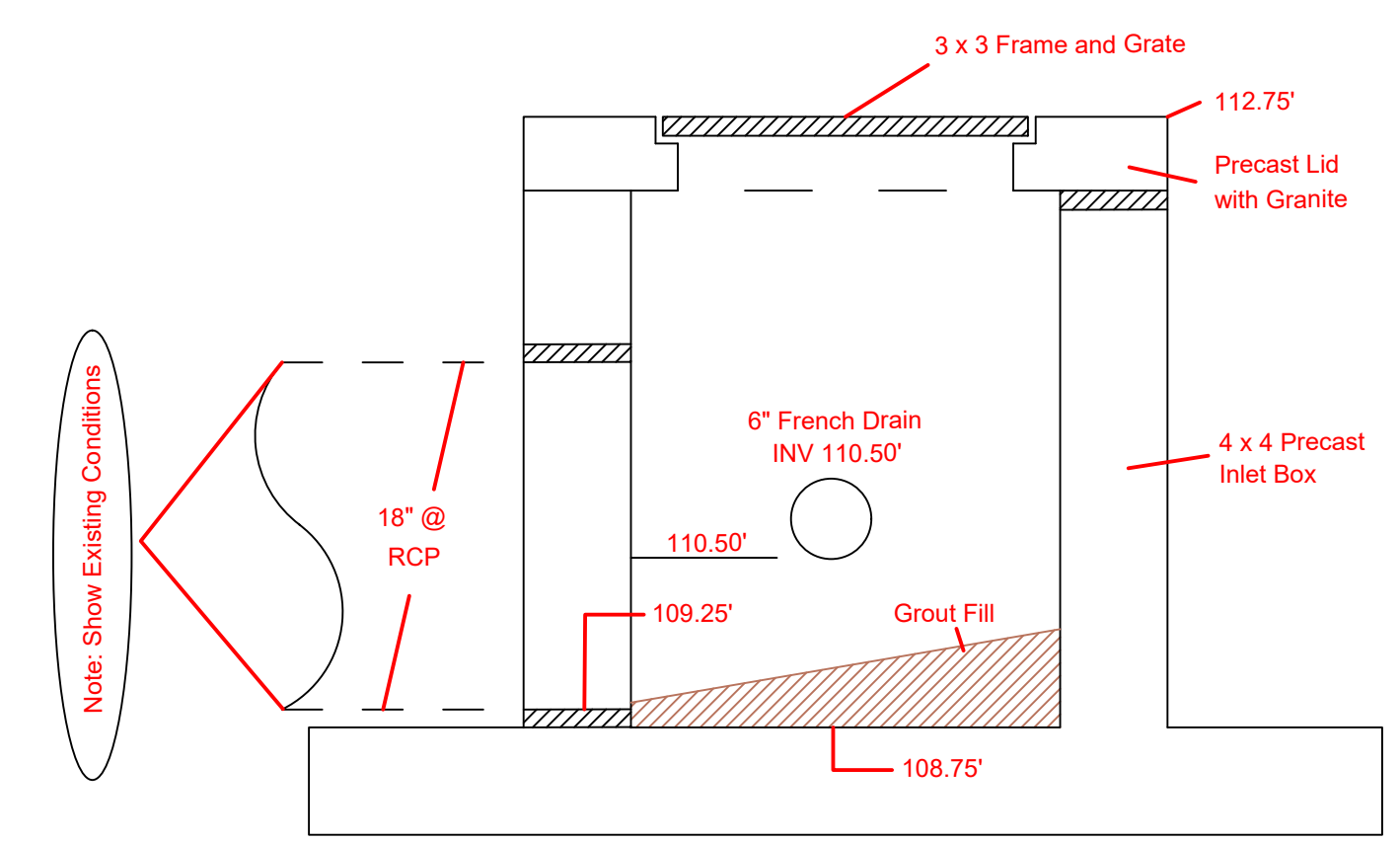
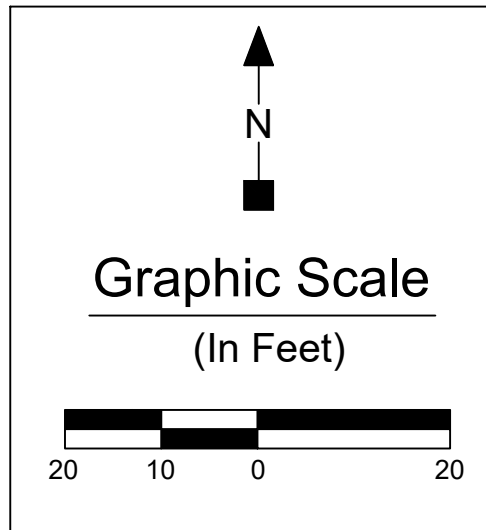
PRODUCT	CLIENT	PROJECT NAME
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BRS	8/20/2019	

FILE	REV	
2019AL01-REV0.dwg	2	
SIZE	SCALE	SHEET
B	NTS	5 OF 5



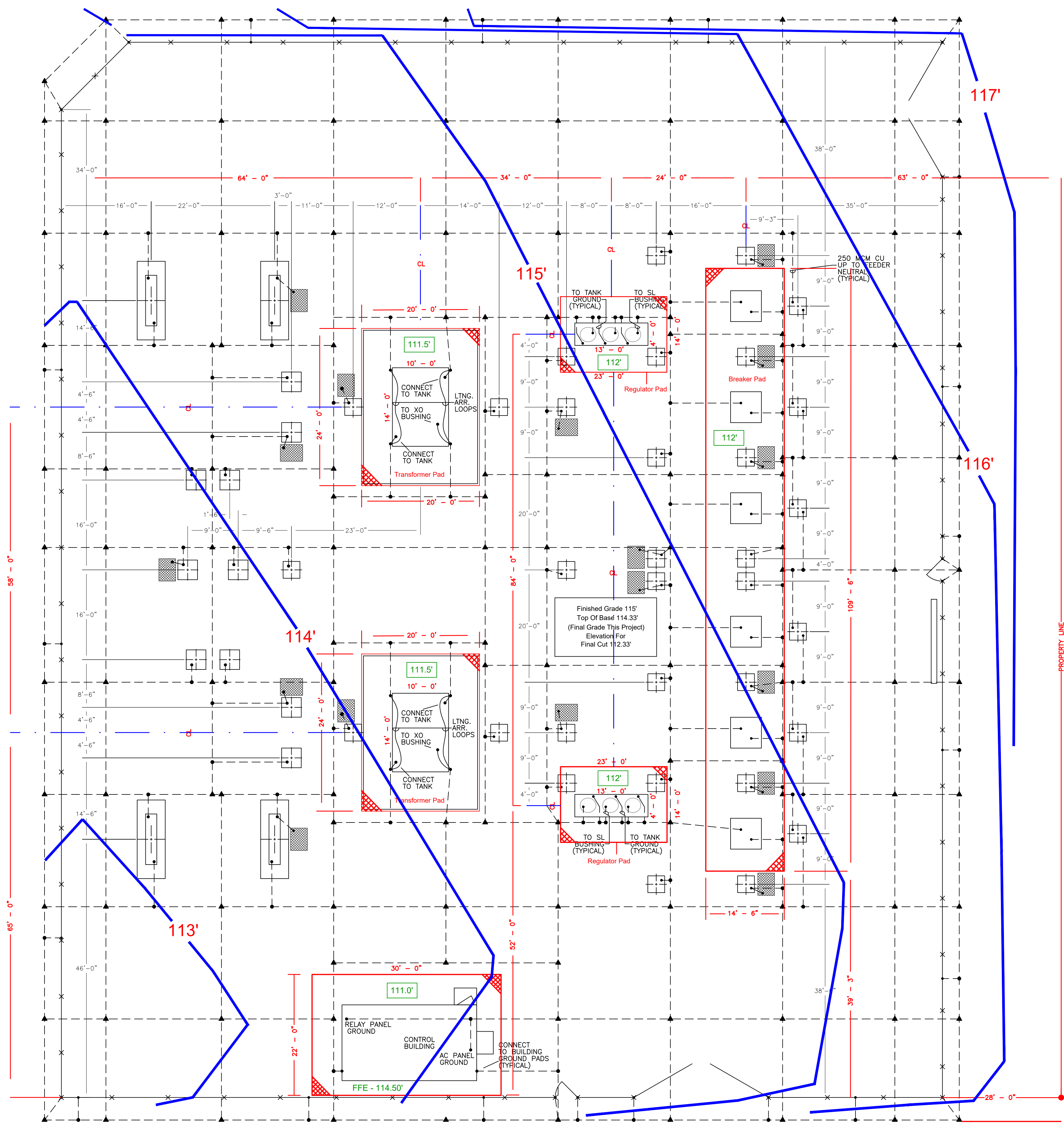
T.B.M. RIM OF SSMH;  
ELEV = 117.70'(NAVD88)



**KEY**

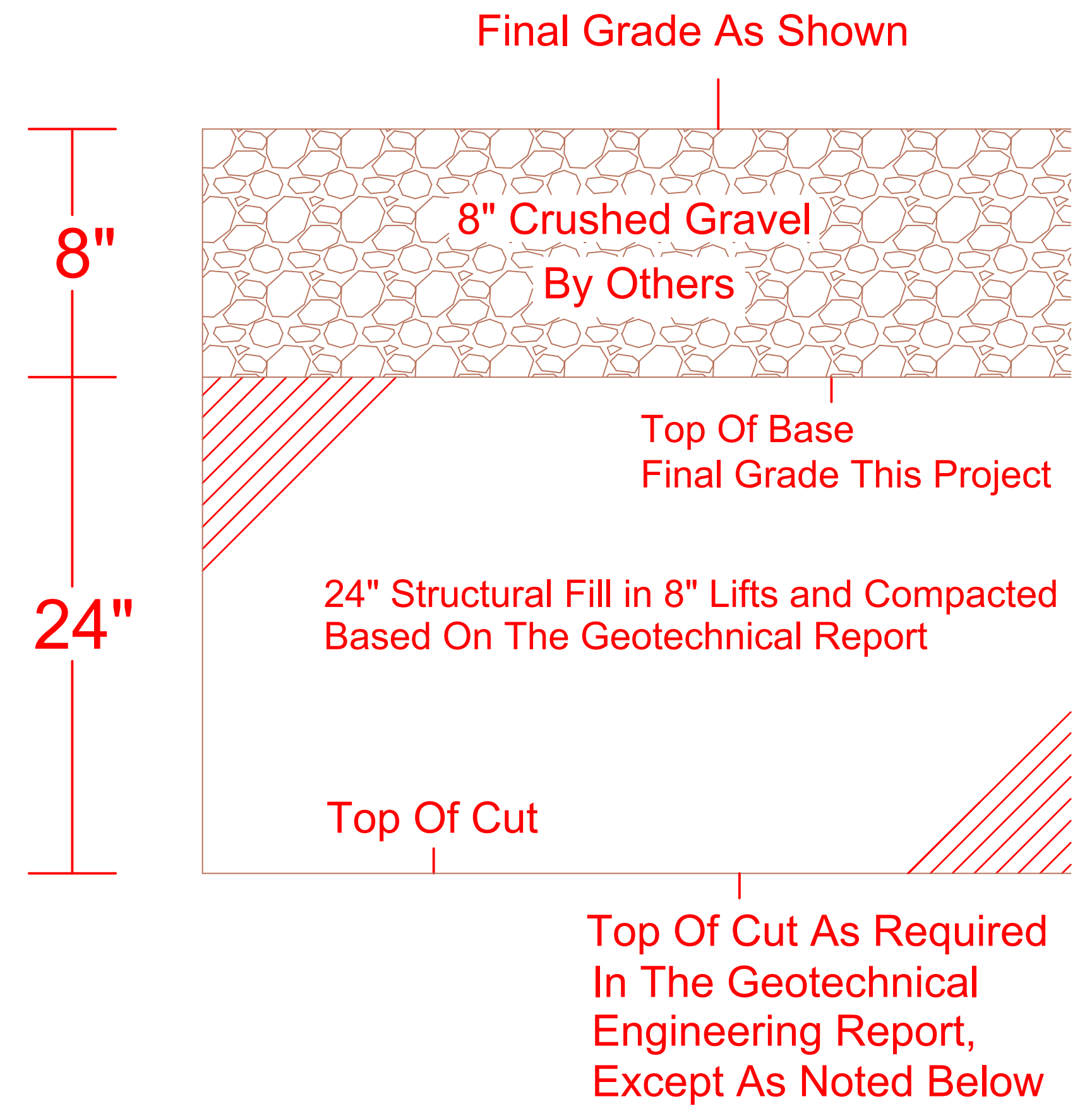
- 115' --- Existing Grade
- 112' --- Final Grade For This Project
- 114' --- Final Grade Future
- 111.33' --- Elevation Of Cut Based On Geotech Report
- Electric Transmission Line (Future)
- Drain Basin and Culvert
- 6"  $\Phi$  Corrugated Filter Wrapped French Drain
- Retaining Wall Refer To Sheets 1 Thru 5

**FINISHED GRADING PLAN**



**GRADING PLAN - CUT/FILL REQUIREMENTS**

SCALE: 3/32" = 1'-0"



**TYPICAL SOIL PROFILE**

General Notes

1. Refer To Geotechnical Engineering Report Regarding Undercut Requirements For Control Building, Transformer Pads, Regulator Pads, And The Breaker Pads. Additional Cut For Each Location, As May Be Required, Is Shown As Top Of Cut (111.5') In Each Building Or Pad Location.
2. Contractor Shall Submit A Sample Of The Base Material Proposed For This Project To The Geotechnical Engineer For Approval Prior To Construction.