HENDERSON COUNTY ENGINEERING

1 HISTORIC COURTHOUSE SQUARE, SUITE 6
HENDERSONVILLE, NORTH CAROLINA 28739
828 694-6526
WWW.HENDERSONCOUNTYNC.GOV

Memorandum To: *Interested Bidders*

From: *Marcus A. Jones, P.E.*
County Engineer

Subject: ***Request for Proposals***
Rehabilitate Armored Walls within Transfer Station

Date: *February 14, 2020*

This request for proposals is presented to achieve a strong value for Henderson County in rehabilitating armored walls within the Solid Waste Transfer Station. In turn, it is important to the County that we maintain a fair and competitive procurement process for the proposers.

Proposals are due: **February 28, 2020 by 5:00 pm**
Engineering Department
Attention: Armor Wall Rehabilitation Bid
majones@hendersoncountync.gov

Location of Work: Henderson County Transfer Station Bay #2
191 Transfer Station Drive
Hendersonville, NC 28791

Detailed Scope of Work:

- Two (2) plan sheets for the work are included below: S1.0 and S2.0. Full-size plans are available via email upon request.
- A pre-construction meeting with County representatives, the structural engineer and the contractor is required prior to starting work.
- Furnish the necessary supervision, labor, tools, equipment and materials to complete the required work safely and per the plans and instruction from the structural engineer.
- Install necessary safety fencing and barricades at project site. "Hi-Viz" clothing / vest is required at all time inside the Solid Waste facility.
- Provide for landfill and hauling fees.
- Work schedule is from 8:00 am to 5:00 pm Monday – Friday. With advanced permission from the Solid Waste Manger, Greg Wiggins, work outside these hours may be permitted.
- Construction must be completed by June 15, 2020.

The following information must be included in the proposal:

1. Proposed Contract signed by bidder and ready for County's signature.
2. Work Schedule for start and completion
3. Copy of Contractor's Licensure with North Carolina
4. One-year warranty on above work.
5. Workers Compensation per requirement of the State of North Carolina
6. Certificate of General Liability Insurance
7. E-Verify: As a condition of payment for services rendered under this agreement, CONTRACTOR shall comply with the requirements of Article 2 of Chapter 64 of the General Statutes. Further, if CONTRACTOR provides the services to the County utilizing a subcontractor, CONTRACTOR shall require the subcontractor to comply with the requirements of Article 2 of Chapter 64 of the General Statutes as well. CONTRACTOR shall verify, by affidavit, compliance of the terms of this section upon request by the COUNTY.

Henderson County reserves the right to reject any and / or all bids. Qualified contractors interested in bidding on the project should contact the County Engineer at majones@hendersoncountync.gov. Questions regarding the project and RFP should also be directed to the County Engineer via email.

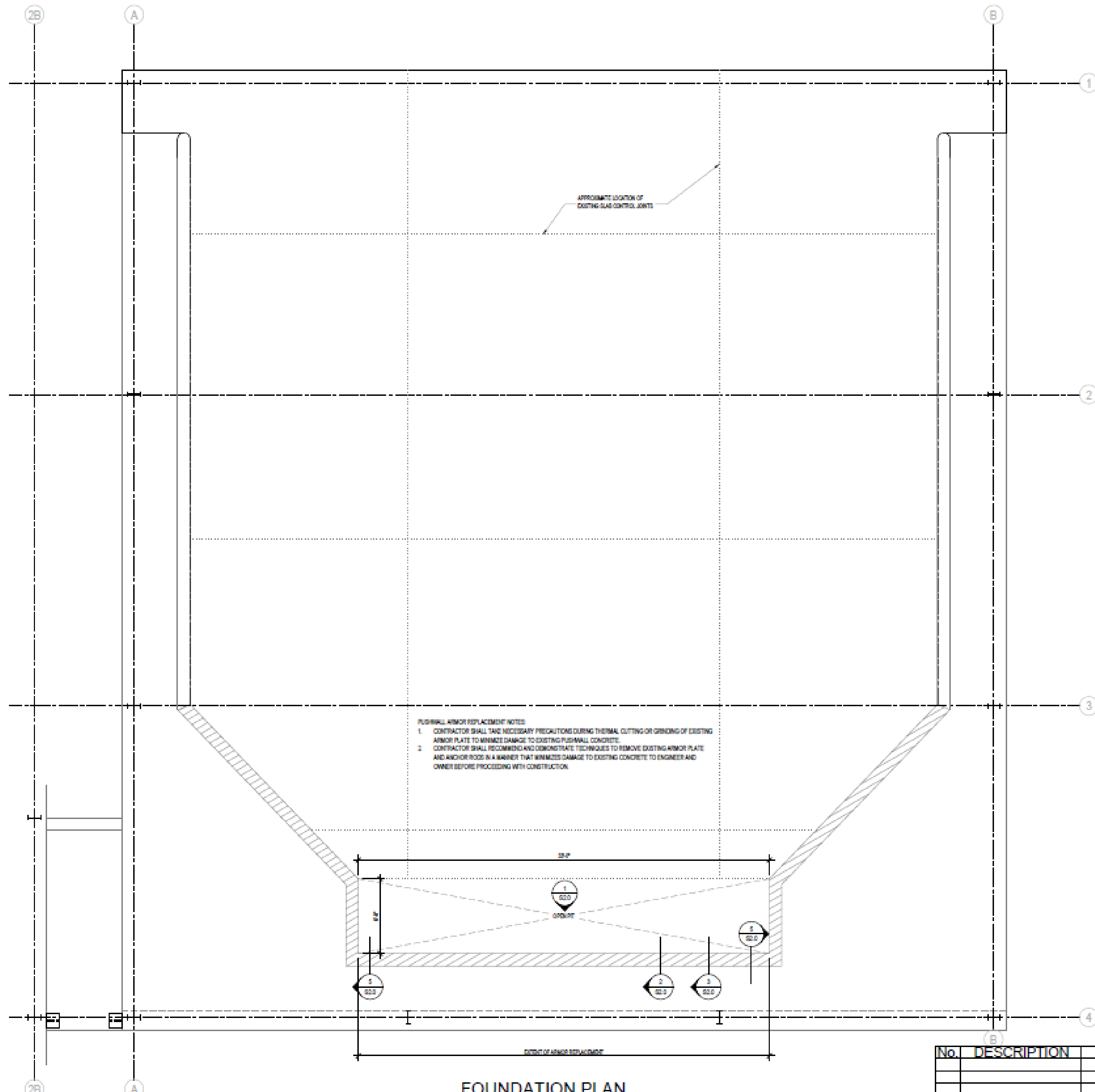
GENERAL NOTES

A. DESIGN CRITERIA
1. THE STRUCTURE IS DESIGNED IN ACCORDANCE WITH THE 2018 NORTH CAROLINA BUILDING CODE.
2. THE STRUCTURE HAS BEEN DESIGNED TO WITHSTAND IN SERVICE LOADS ONLY. METHODS, PROCEDURE, AND SEQUENCES OF CONSTRUCTION ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO MAINTAIN AND INSURE THE INTEGRITY OF THE STRUCTURE DURING CONSTRUCTION.
3. WHERE CONFLICTS OCCUR BETWEEN NOTES, DRAWINGS, OR SPECIFICATIONS, THE CONTRACTOR SHALL NOT PROCEED WITH THE AFFECTED WORK UNTIL THE STRUCTURAL ENGINEER ISSUES A CLARIFICATION.

B. STRUCTURAL STEEL
1. STRUCTURAL STEEL SHALL CONFORM TO ASTM A992, GRADE 50.
2. S, M, HP AND L SHAPES AND PLATES SHALL BE ASTM A36 OR ASTM A572, GRADE 50.
3. STRUCTURAL STEEL TUBING SHALL CONFORM TO ASTM A500, GRADE B.
4. STRUCTURAL STEEL PIPE SHALL CONFORM TO ASTM A501 OR ASTM A53, TYPE E OR S, GRADE B.
5. BOLTS FOR CONNECTING STRUCTURAL STEEL SHALL BE 3/4" DIAMETER CONFORMING TO ASTM A325-N U.O.N.
6. ANCHOR BOLTS SHALL CONFORM TO ASTM F1554. YIELD STRENGTH SHALL BE 36 KSI.
7. FABRICATION AND ERECTION OF ALL STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH THE LATEST AISC SPECIFICATIONS.
8. WELDING ELECTRODES SHALL BE E70 SERIES.
9. WELDS SHALL BE MADE ONLY BY WELDERS WHO HAVE BEEN QUALIFIED BY TESTS AS PRESCRIBED IN THE CURRENT EDITION OF THE "STRUCTURAL WELDING CODE", AWS D1.1, OF THE AMERICAN WELDING SOCIETY TO PERFORM THE TYPE OF WORK REQUIRED.
10. WRITTEN WELDING PROCEDURE SPECIFICATIONS FOR EACH TYPE OF WELD PRESENT ON THE PROJECT SHALL BE SUBMITTED WITH SHOP DRAWINGS. SEE ANSI/AWS D1.1, ANNEX E, FOR EXAMPLES. THESE PROCEDURES MUST BE READILY AVAILABLE TO ALL SHOP AND SITE WELDERS.
11. THE STRUCTURAL STEEL FABRICATOR SHALL DESIGN THE BEAM CONNECTIONS BASED ON THE REACTIONS SHOWN ON THE PLAN. FOR ANY BEAM WITHOUT A REACTION ON THE PLAN, OR FOR ANY CONNECTION NOT DETAILED ON THE STRUCTURAL DRAWINGS, THE STRUCTURAL STEEL FABRICATOR SHALL DESIGN AND DETAIL THE CONNECTION USING CURRENT AISC STANDARD PRACTICE.
12. ENCASE ALL STRUCTURAL STEEL BELOW GRADE IN CONCRETE WITH A MINIMUM COVERAGE OF 3".

E. PROJECT COORDINATION
1. THE GENERAL CONTRACTOR SHALL CAREFULLY STUDY AND BE FAMILIAR WITH ALL DRAWINGS. IMMEDIATELY REPORT CONFLICTS, ERRORS, AND OMISSIONS TO THE ARCHITECT AND ENGINEERS.
2. THE MECHANICAL, ELECTRICAL, AND PLUMBING CONTRACTORS SHALL COORDINATE REQUIRED WALL OPENINGS WITH THE GENERAL CONTRACTOR. LINTELS FOR THESE OPENINGS SHALL BE FURNISHED AND INSTALLED BY THE GENERAL CONTRACTOR. SEE MISCELLANEOUS LINTEL SCHEDULE, SHEET S0.1.
3. LOCATIONS FOR ITEMS SUSPENDED FROM THE STRUCTURE SHALL BE COORDINATED WITH THE GENERAL CONTRACTOR. ALL REQUIRED SUPPLEMENTAL FRAMING SHALL BE SUPPORTED AND INSTALLED BY THE GENERAL CONTRACTOR.
4. REQUIRED ROOF OPENING LOCATIONS SHALL BE COORDINATED WITH THE GENERAL CONTRACTOR. ALL ADDITIONAL REQUIRED ROOF FRAMING AROUND OPENINGS SHALL BE FURNISHED AND INSTALLED BY THE GENERAL CONTRACTOR.
5. WHERE CONFLICTS OCCUR BETWEEN NOTES, DRAWINGS, OR SPECIFICATIONS, THE CONTRACTOR SHALL NOT PROCEED WITH THE AFFECTED WORK UNTIL THE STRUCTURAL ENGINEER ISSUES A CLARIFICATION.

F. MISCELLANEOUS ITEMS
1. VERIFY ALL OPENING SIZES AND LOCATIONS WITH MECHANICAL EQUIPMENT AND ARCHITECTURAL DRAWINGS.
2. GROUT FOR SETTING BEARING SURFACES SHALL BE NON-SHRINK, EQUAL TO "MASTERFLOW 928" BY MASTERBUILDERS.
3. STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS, AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR SEEING THAT THE WORK OF ALL TRADES IS COORDINATED WITH THE STRUCTURAL WORK.
4. UNLESS SPECIFICALLY SHOWN OR NOTED ON THE DRAWINGS, NO STRUCTURAL MEMBER SHALL BE CUT, NOTCHED, BORED, OR OTHERWISE WEAKENED WITHOUT THE PERMISSION OF THE STRUCTURAL ENGINEER.
5. HORIZONTAL AND VERTICAL CLEARANCES FROM THE EXISTING ADJACENT STRUCTURE SHALL BE VERIFIED BEFORE CONSTRUCTION IS BEGUN. VARIATIONS FROM THE DIMENSIONS INDICATED ON THE CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND/OR STRUCTURAL ENGINEER.
6. STRUCTURAL EPOXY SHALL BE "HILTI RE 500 V3" OR APPROVED EQUIVALENT. STORAGE AND INSTALLATION SHALL BE IN STRICT ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS. PREDRILL HOLES TO THE SPECIFIED DIAMETER USING DRILL PRESCRIBED BY THE MANUFACTURER. CLEAN PREDRILLED HOLES USING NYLON BRUSHES AND OIL - FREE COMPRESSED AIR. DO NOT DISTURB INSTALLED ELEMENT UNTIL SPECIFIED EPOXY CURE TIME IS ATTAINED.



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

No.	DESCRIPTION	DATE

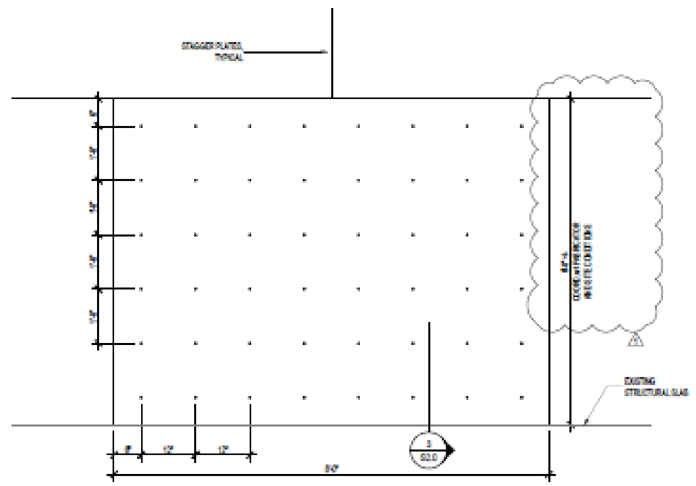
KLOESEL Engineering, PA

HENDERSON COUNTY MUNICIPAL SOLID WASTE TRANSFER STATION
802 STONEY MOUNTAIN RD
HENDERSONVILLE, NC

GENERAL NOTES
PLAN LAYOUT

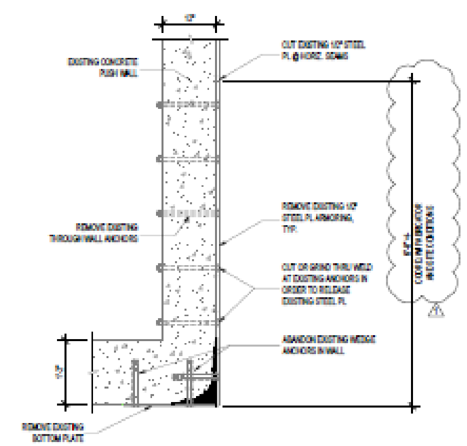
Date: 01-28-2020
Drawn By: KN
Designed By: DBP
Reviewed By: [redacted]

Sheet No.
S1.0

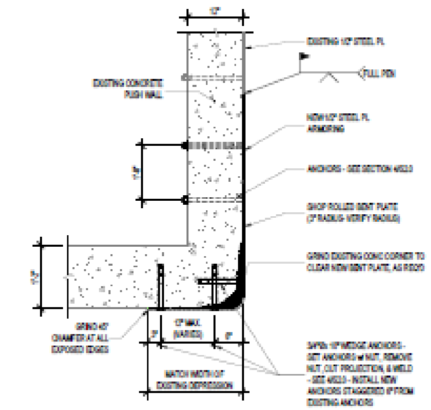


1 STEEL PLATE ARMORING ELEVATION

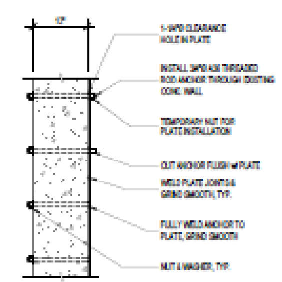
NOTE:
FOR HIGH STRENGTH PLATES (AR400) CONTRACTOR SHALL SUBMIT WRITTEN WELDING PROCEDURES TO MINIMIZE CRACKING. PROCURE SHALL INCLUDE PREHEATING, INTERPASS TEMPERATURE MONITORING, AND LOW HYDROGEN WELD ELECTRODES.



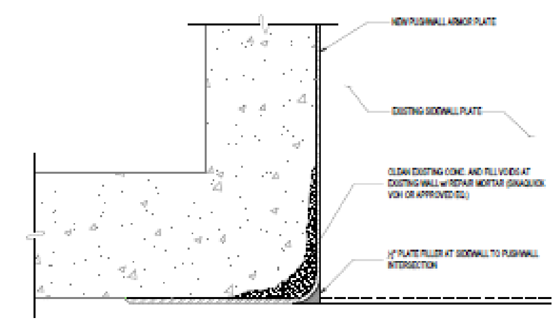
2 SECTION AT EXISTING PUSH WALL



3 SECTION AT NEW PUSH WALL



4 ARMOR PLATE AT EXISTING WALL



5 ENLARGED SECTION

No.	DESCRIPTION	DATE
1	REV 1	1/30/2020

KLOESEL Engineering, PA

HENDERSON COUNTY MUNICIPAL SOLID WASTE TRANSFER STATION
802 STONEY MOUNTAIN RD
HENDERSONVILLE, NC

DETAILS

01-30-2020
KN
DBP

S2.0