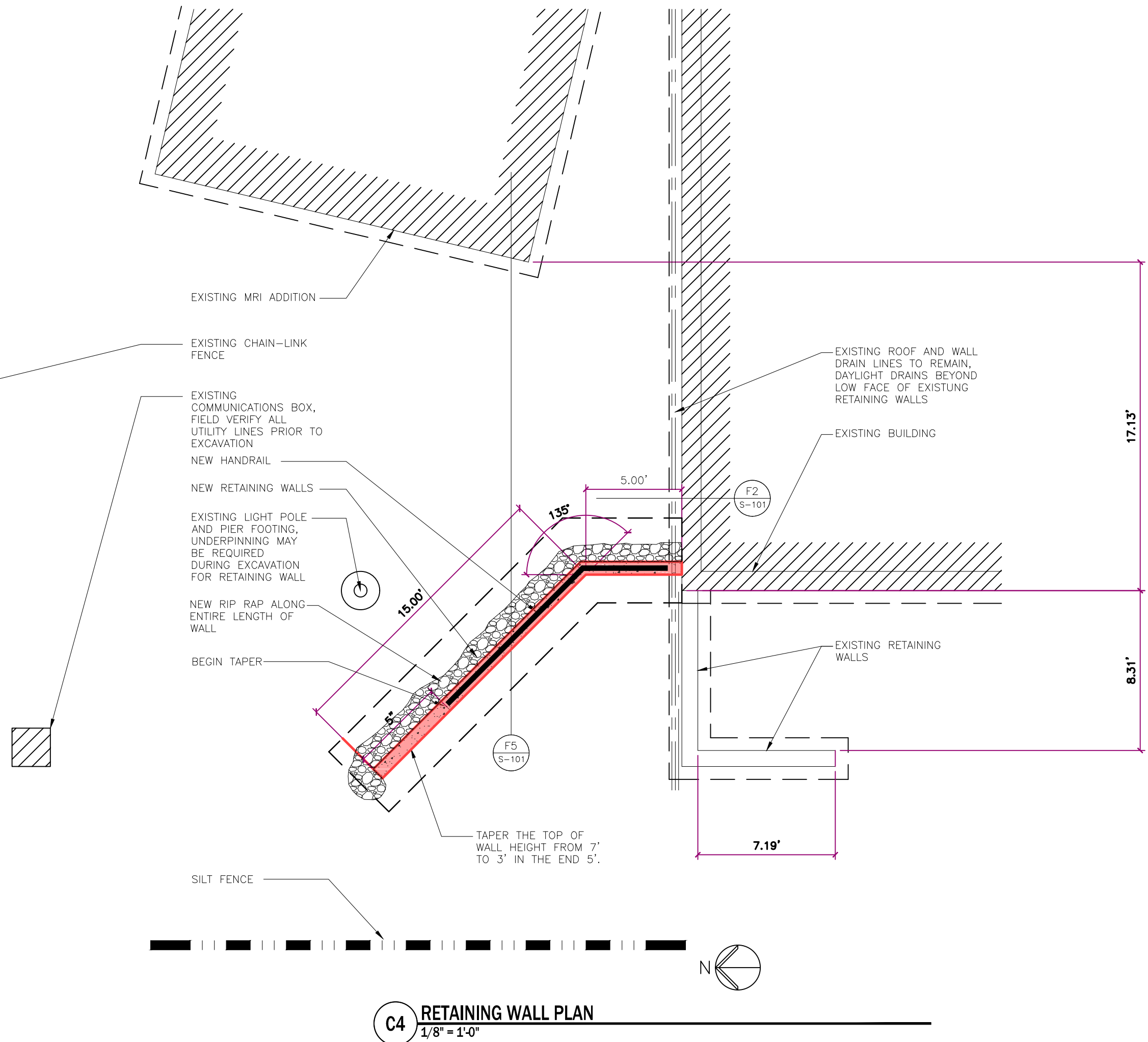
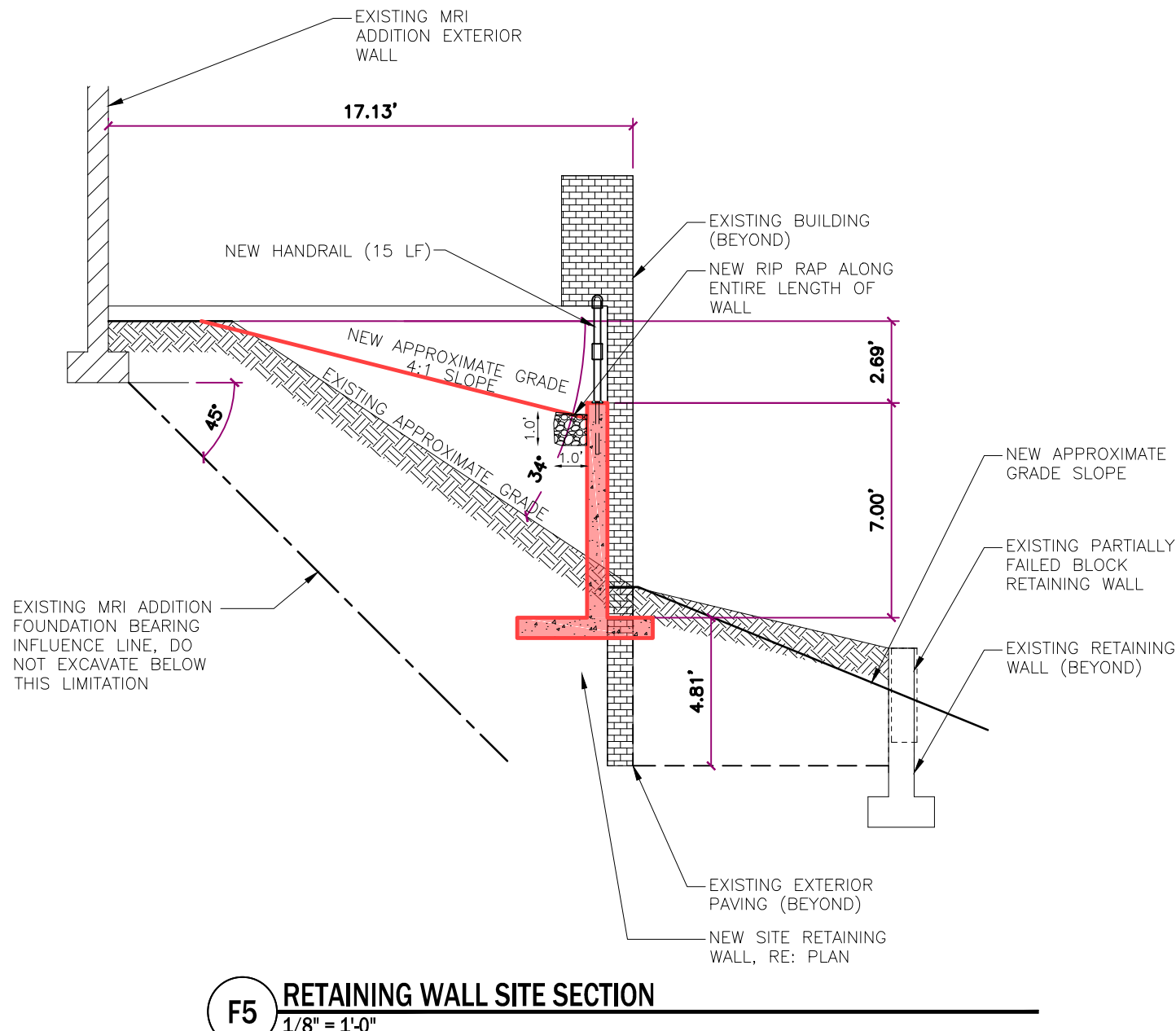
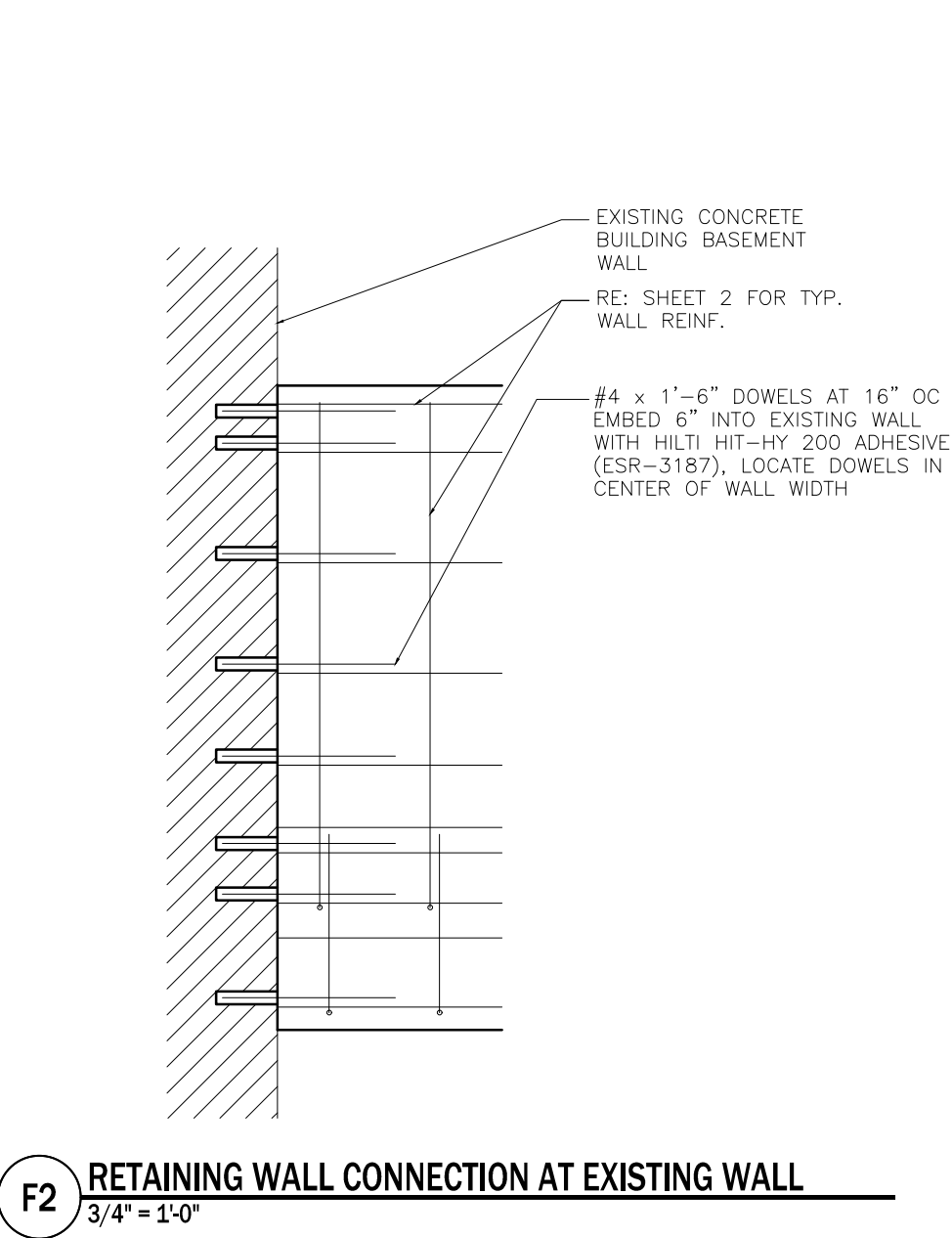


HUB Engineers
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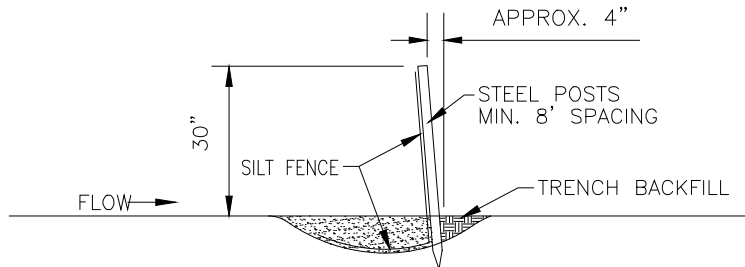


GENERAL NOTES

- BID ITEMS INCLUDED IN THE BID SCHEDULE SHALL INCLUDE ALL WORK SHOWN ON THE PLANS AND REQUIRED BY THE SPECIFICATIONS. IF THERE ARE CONFLICTS BETWEEN THE PAY ITEMS IN THE BID PROPOSAL AND THE SPECIFICATIONS THE BID PROPOSAL SHALL GOVERN.
- THE CONTRACTOR SHALL EXCAVATE AND DETERMINE THE SIZE, LOCATION AND ELEVATION OF THE EXISTING UTILITIES, FIELD VERIFY ELEVATION OF ALL UTILITY CROSSINGS BY EXCAVATING PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL CONTACT UTILITY COMPANIES TO DETERMINE THE EXACT LOCATION OF THEIR EXISTING UTILITIES PRIOR TO DIGGING. ANY CHANGE IN ALIGNMENT OR GRADE CAUSED BY INTERFERING UTILITIES SHALL BE MADE BY THE CONTRACTOR AT NO COST TO THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OF ANY EXISTING UTILITIES DAMAGED BY THE CONSTRUCTION. THE CONTRACTOR SHALL CALL OKIE AT 1-800-522-6543.
- CONSTRUCTION STAKING SHALL BE PROVIDED BY THE CONTRACTOR.
- THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL LAWS GOVERNING SAFETY, HEALTH AND SANITATION. THE CONTRACTOR SHALL PROVIDE ALL SAFEGUARDS, SAFETY DEVICES AND PROTECTIVE EQUIPMENT AND TAKE ANY NECESSARY ACTION TO PROTECT PROPERTY IN CONNECTION WITH THE PERFORMANCE OF THE WORK.
- ALL DISTURBED AREAS SHALL BE RESTORED WITH SOLID SLAB SOD.
- ITEMS INCLUDED IN THIS CONTRACT BUT NOT INCLUDED IN THE PROPOSAL SHALL BE CONSIDERED INCIDENTAL AND SHALL BE INCLUDED IN THE COST OF OTHER ITEMS.
- STRUCTURES SUCH AS CURBS AND GUTTERS, CONCRETE AND ASPHALT DRIVES AND WALK WAYS, PAVING BRICKS, FENCING, RETAINING WALLS, ETC., CROSSED BY PIPELINES ARE NOT ALL INDICATED IN PROFILE. CONTRACTOR SHALL RESTORE ANY EXISTING STRUCTURES THAT ARE DISTURBED, DAMAGED OR REMOVED BY CONSTRUCTION.
- CONTRACTOR SHALL MAINTAIN A CLEAN CONSTRUCTION SITE AT ALL TIMES. TRASH, SPENT PALLETS, CONTAINER REMNANTS, BINDINGS, ETC. SHALL BE PICKED UP WHEN NO LONGER IN USE AND DEPOSITED IN TRASH CONTAINERS.
- ALL DIMENSIONS SHOWN WITH ± SHALL BE CONFIRMED BY THE CONTRACTOR ACCORDING TO ACTUAL FIELD CONDITIONS OR EQUIPMENT REQUIREMENTS.
- REFER TO ACI 318 LATEST EDITION FOR CONCRETE COVER, ACI 315 LATEST EDITION FOR DETAILING PRACTICES AND FABRICATION AND ACI 301 LATEST EDITION FOR STANDARD PRACTICE FOR MIXING AND PLACING REINFORCED CONCRETE.
- MINIMUM COMPRESSIVE STRENGTH (f'_c) AT THE END OF 28 DAYS SHALL BE AS FOLLOWS:
A. FOOTINGS AND RETAINING WALLS 5000 PSI
MAXIMUM WATER/CEMENT RATIO .50
MINIMUM CEMENT CONTENTS 340 LBS/CU.YD.
MAXIMUM SLUMP 3 INCHES
CONCRETE SHALL BE NORMAL WEIGHT (145 PCF), UNLESS NOTED OTHERWISE.
- EXTERIOR CONCRETE AND CONCRETE EXPOSED TO FREEZE-THAW CYCLES SHALL BE AIR-ENTRAINED. REFER TO VA SPECIFICATION 03300
- MATERIALS OR ADMIXTURES SHALL NOT CONTAIN ANY CALCIUM CHLORIDE.
- REINFORCING STEEL SHALL MEET THE FOLLOWING:
A. DEFORMED BARS ASTM A615, GRADE 60
- REINFORCING BARS SHALL BE LAPPED PER ACI 318 STANDARDS.
- PROVIDE CORNER BARS THAT MATCH AND LAP CONTINUOUS REINFORCEMENT SIZE AND QUANTITY AT INTERSECTIONS AND CORNERS OF WALLS AND FOUNDATIONS.
- NO FOUNDATION INFORMATION IS AVAILABLE FOR THIS DESIGN AND FOOTING DESIGNS ARE BASED ON MAXIMUM ASSUMED NET SOIL BEARING PRESSURES OF 1500 PSF. CONTRACTOR MUST VERIFY THAT THESE VALUES ARE OBTAINABLE DURING CONSTRUCTION.

PAY QUANTITY NOTES:

- QUANTITIES INCLUDE 20% FOR SHRINKAGE.
- INCLUDES COST OF 10-20-10 FERTILIZER ESTIMATED AT 200 LBS. PER 1000 S.Y. OF SODDING, 300 LBS. PER ACRE OF SEEDING. BID ITEM INCLUDES COST OF WATERING ESTIMATED AT 80 GALLONS PER S.Y. OF SODDING AND SEEDING. CONTRACTOR SHALL PROVIDE SUFFICIENT WATER FOR ADEQUATE GRASS GROWTH AS APPROVED BY THE ENGINEER. CONTRACTOR SHALL MAINTAIN SEED AND SODDED AREAS UNTIL THE SITE HAS BEEN MOWED TWICE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND DISPOSING OF ALL EROSION CONTROL AND TEMPORARY FENCING AT THE FINAL ACCEPTANCE OF THE PROJECT. THE LAST 10% OF PAYMENT WILL BE HELD UNTIL REMOVAL AND PROPER DISPOSAL IS COMPLETE.
- THIS ITEM INCLUDES THE SAW CUTTING, REMOVAL AND DISPOSAL OF ALL OBSTRUCTIONS LOCATED WITHIN THE PROJECT LIMITS.
- PRICE BID FOR THIS ITEM SHALL INCLUDE ALL COST FOR MATERIALS AND LABOR REQUIRED TO CONSTRUCT A FUNCTIONING RETAINING WALL, INCLUDING BUT NOT LIMITED TO THE FOLLOWING: REINFORCING STEEL, TYPE "A" AGGREGATE BACKFILL, WATER STOP, EXPANSION JOINT MATERIAL, DRAIN PIPES, CONCRETE, FORMING, ETC.
- ALL REINFORCING STEEL SHALL BE GRADE 60.
- THIS ITEM INCLUDES THE REMOVAL AND DISPOSAL OF ALL OBSTRUCTIONS LOCATED WITHIN THE PROJECT LIMITS
- ITEM "EARTHWORK" SHALL CONSIST OF THE FOLLOWING:
A. SALVAGE TYPE A TOPSOIL IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS. THE CONTRACTOR SHALL STRIP ALL OF THE AVAILABLE TOPSOIL WITHIN THE LIMITS OF CONSTRUCTION APPROXIMATELY 6" DEEP, STOCKPILE THE MATERIAL AND REPLACE THE TOPSOIL ON THE FINISHED SLOPES OF THE GRADING SECTION. VEGETATION SHALL BE STRIPPED AS SHALLOW AS POSSIBLE AND STOCKPILED SEPARATELY SO THE REMAINING TOPSOIL CAN BE STOCKPILED FREE OF VEGETATION AS MUCH AS REASONABLY POSSIBLE. IN EXCAVATION SECTIONS THE VOLUME OF TOPSOIL IS INCLUDED IN THE UNCLASSIFIED EXCAVATION QUANTITY. IN FILL SECTIONS, THE VOLUME OF TOPSOIL IS INCLUDED IN THE UNCLASSIFIED FILL QUANTITY. THE COST OF REMOVING THE EXISTING TOPSOIL PRIOR TO EMBANKMENT CONSTRUCTION SHALL BE INCLUDED IN THE LUMP SUM EARTHWORK PAY ITEM.
B. INCLUDES ALL EXCAVATION AND FILL REQUIRED TO COMPLETE THE PROJECT, INCLUDING ANY OFFSITE MATERIAL REQUIRED IF EXCAVATION IS UNSUITABLE OR IF INSUFFICIENT QUANTITY TO COMPLETE PROJECT.



- POSTS SHALL BE ANGLED SLIGHTLY TOWARD RUNOFF SOURCE/
- THE TOE OF THE SILT FENCE SHALL BE TRENCHED IN AND BACKFILLED.
- THE TRENCH SHOULD BE 6" DEEP BY 3' TO 4' WIDE TO ALLOW SILT FENCE TO BE ATTACHED TO THE POSTS.
- SILT FENCE SHALL BE FASTENED TO POSTS OR TO WOVEN WIRE, WHICH IS IN TURN ATTACHED TO THE POSTS.
- INSPECTION SHALL BE FREQUENT & REPAIR OR REPLACEMENT PROMPT.
- SILT FENCES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS TO IMPEDE STORMWATER FLOW.
- TRAPPED SEDIMENT SHALL BE DISPOSED OF IN AN APPROVED MANNER AND LOCATION WHICH WILL NOT CONTRIBUTE TO ADDITIONAL SILTATION.
- ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHE A DEPTH OF 6" TO 9" AND DISPOSED OF AS IN NOTE 7 ABOVE.

SILT FENCE DETAIL

BAR IS ONE INCH ON ORIGINAL DRAWING

IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY



Holloway, Updike and Bellen, Inc.
818 EAST SIDE BOULEVARD - MUSKOGEE, OKLAHOMA (918) 682-7611

SCALE:

HORZ. 1"=50'
VERT. 1"=5'

MRI RETAINING WALL

DETAILS

PROJECT NO: 17VAMCWALL

Detail: GA
Check:

Date FEBRUARY 2017
Sheet 2 of 2