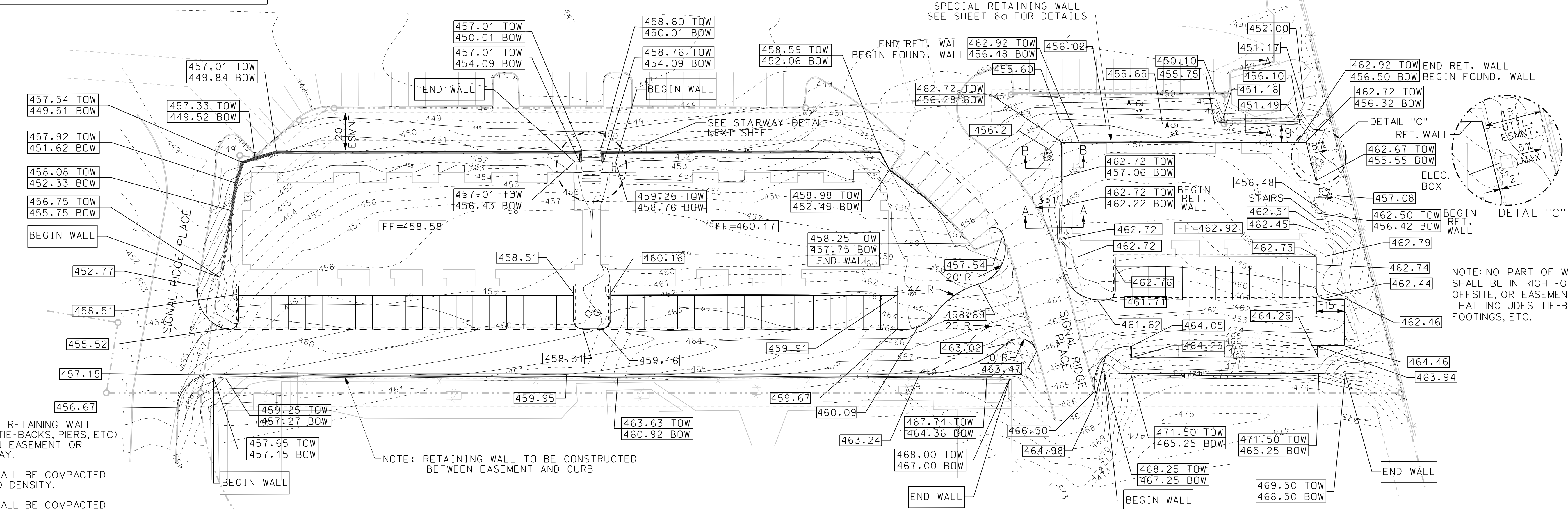
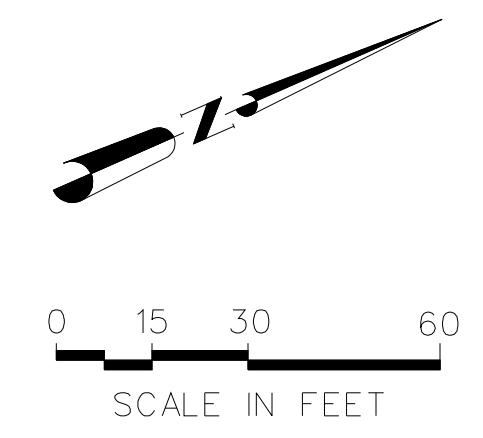
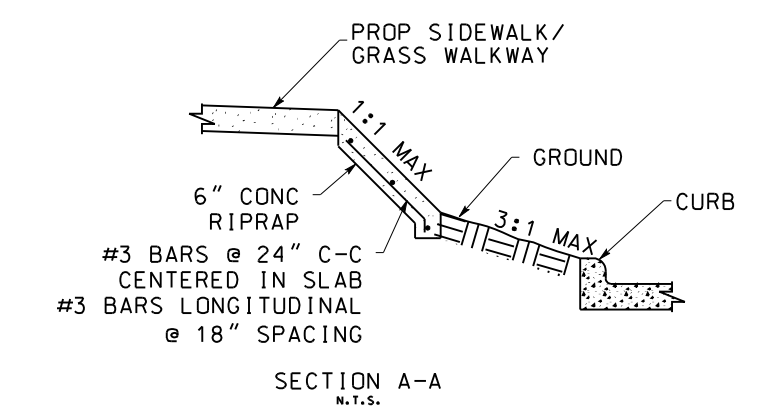
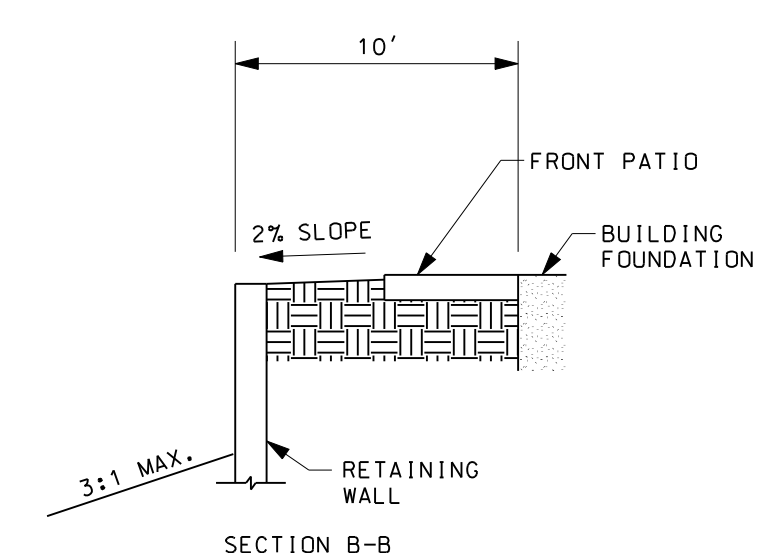


LEGEND

- EXISTING CONTOURS
- PROPOSED CONTOURS
- 456.65 TOP OF CURB ELEVATION
- 468.00 TOW RETAINING WALL ELEVATIONS
- 464.08 BOW



- NOTES:
- NO PART OF RETAINING WALL (FOOTINGS, TIE-BACKS, PIERS, ETC) SHALL BE IN EASEMENT OR RIGHT-OF-WAY.
 - ALL FILL SHALL BE COMPACTED TO 95% STD DENSITY.
 - ALL FILL SHALL BE COMPACTED WITH A SHEEP'S FOOT ROLLER.

NOTE: RETAINING WALL TO BE CONSTRUCTED BETWEEN EASEMENT AND CURB

NOTE: NO PART OF WALL SHALL BE IN RIGHT-OF-WAY, OFFSITE, OR EASEMENT, THAT INCLUDES TIE-BACKS, FOOTINGS, ETC.

GENERAL PROVISIONS

- FURNISH EQUIPMENT AND MATERIALS SHOWN ON THE DRAWINGS, SPECIFIED HEREIN, AND REQUIRED TO PROVIDE A COMPLETE PROJECT.
- "OR APPROVED EQUAL" IS ALWAYS IMPLIED AFTER A BRAND NAME, PATENTED PROCESS OR CATALOG NUMBER. THE CONTRACTOR MAY SUBSTITUTE ANY BRAND, PROCESS OR CATALOG NUMBER APPROVED AS AN EQUAL BY ERIC L. DAVIS ENGINEERING THE ONLY EXCEPTION IS WHERE "NO SUBSTITUTION" IS SPECIFIED.
- VERIFY AND ESTABLISH DIMENSIONS, CLEARANCES, AND FIELD CONDITIONS INCLUDING THE LOCATION OF UTILITIES PRIOR TO THE START OF EXCAVATION, CONSTRUCTION AND FABRICATION. COORDINATE CONSTRUCTION WITH ALL TRADES INVOLVED ON THE PROJECT.
- DRAWINGS SHOW THE GENERAL ARRANGEMENT OF CONSTRUCTION BASED ON AVAILABLE INFORMATION. IF CONDITIONS REQUIRE MODIFICATIONS FROM THE DRAWINGS, SUBMIT PROPOSED MODIFICATIONS WITH REASONS TO ERIC L. DAVIS ENGINEERING FOR APPROVAL BEFORE MAKING ANY CHANGES.
- USE NEW MATERIALS UNLESS OTHERWISE SPECIFIED.
- KEEP WORK SITE IN AN ORDERLY CONDITION AND REMOVE ALL WASTE AT PROJECT COMPLETION.

EXCAVATION AND FILL

- LIMIT EXCAVATION TO THAT NECESSARY FOR INSTALLATION OF THE WORK. OVER-EXCAVATION SHALL BE REPLACED WITH COMPACTED STRUCTURAL FILL OR CONTROLLED LOW-STRENGTH MATERIAL (CLSM).
- TAKE CARE TO AVOID SLUFFING OF EXCAVATION WALLS. USE TEMPORARY SHORING AS NECESSARY AND IN ALL EXCAVATIONS GREATER THAN 4'-0" DEEP.
- SCARIFY AND COMPACT THE TOP 6 INCHES OF EXPOSED SUBGRADE PER THE REQUIREMENTS FOR STRUCTURAL FILL.
- STRUCTURAL FILL SHALL BE CLEAN MATERIAL, FREE OF ORGANIC MATTER, FROZEN MATERIAL, TRASH, ROCKS OVER 3 INCHES, CLAY AND OTHER DELETERIOUS SUBSTANCES.
- WATER SHALL BE ADDED TO THE SOILS, OR THEY SHALL BE DRIED UNTIL THEY ARE AT OPTIMUM MOISTURE. MOISTURE SHALL BE EVENLY DISTRIBUTED THROUGHOUT EACH LAYER.
- COMPACT EXPOSED SUBGRADE AND STRUCTURAL FILL MATERIAL IN MAXIMUM 8 INCH LOOSE LIFTS TO 95 PERCENT OF STANDARD PROCTOR DENSITY (ASTM D698).
- REMOVE EXCESS EXCAVATED MATERIAL FROM THE JOB SITE TO AN APPROVED LOCATION.

CONCRETE

- ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE ACI BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE AND THE ACI SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS.
- ALL CONCRETE SHALL CONFORM TO APPROVED DESIGN MIXES. MIX DESIGNS SHALL BE SUBMITTED TO ERIC L. DAVIS ENGINEERING AT LEAST ONE WEEK PRIOR TO SCHEDULED CONCRETE PLACEMENT.
- ALL CAST IN PLACE CONCRETE SHALL:
 - DEVELOP 3000 PSI COMPRESSIVE STRENGTH IN 28 DAYS.
 - BE MADE WITH TYPE I OR II CEMENT.
 - HAVE 5% +/- 1% AIR ENTRAINMENT.
 - HAVE A 4 INCH SLUMP +/- 1 INCH.
- DELIVERY OF TRANSIT MIXED CONCRETE SHALL CONFORM TO ASTM C94.
- HOT WEATHER CONCRETING SHALL CONFORM TO ACI 305.
- COLD WEATHER CONCRETING SHALL CONFORM TO ACI 306.

CONCRETE DETAILS

- ANY STOP IN CONCRETE WORK SHALL BE MADE WITH VERTICAL BULKHEADS AND HORIZONTAL KEYS. CONSTRUCTION JOINTS ARE NOT PERMITTED WITHOUT PRIOR WRITTEN APPROVAL BY ERIC L. DAVIS ENGINEERING.
- FLOOR SLABS ARE TO BE PLACED WITHIN A CLASS B TOLERANCE (1/4" IN 10'-0") AND ARE TO RECEIVE THE FOLLOWING FINISHES:
 - INTERIOR SLABS TROWELED FINISH
 - EXTERIOR SLABS BROOM FINISH
 - SLABS TO BE TOPPED SCRATCHED FINISH
- CONCRETE CURING SHALL BE DONE IN ACCORDANCE WITH ACI 308 AND SHALL BEGIN IMMEDIATELY AFTER PLACEMENT USING EITHER WATERPROOF SHEET MATERIAL OR A MEMBRANE CURING COMPOUND. CURING SHALL BE CONTINUOUS FOR A PERIOD OF 7 DAYS MINIMUM.

REINFORCING STEEL

- ALL REINFORCING SHALL BE ASTM A615 GRADE 60
- FABRICATE AND PLACE REINFORCEMENT PER ACI 315 AND THE CRSI RECOMMENDED PRACTICE FOR PLACING REINFORCING BARS.
- PROVIDE ALL ACCESSORIES NECESSARY TO SUPPORT REINFORCING IN THE POSITIONS SHOWN.

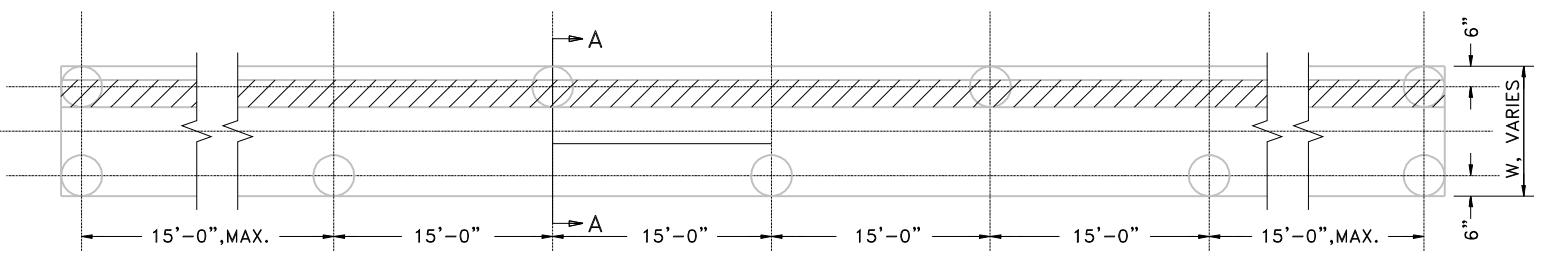
DETAILS OF REINFORCEMENT

- NO SPLICES IN REINFORCEMENT SHALL BE MADE UNLESS DETAILED OR AUTHORIZED BY ERIC L. DAVIS ENGINEERING.
 - LAP SPLICES WHERE PERMITTED SHALL BE A MINIMUM OF 36 BAR DIAMETERS
 - UNLESS NOTED OTHERWISE, CONTINUOUS TOP AND BOTTOM BARS IN WALLS, BEAMS AND GRADE BEAMS SHALL BE SPLICED AS FOLLOWS:
 - TOP BARS AT MIDSPAN.
 - BOTTOM BARS OVER SUPPORTS
 - REINFORCEMENT PROTECTION SHALL BE AS FOLLOWS:
 - CONCRETE POURED AGAINST THE EARTH 3"
 - FORMED CONCRETE EXPOSED TO WEATHER OR EARTH 2"
 - ALL OTHER CONCRETE 3/4"
 - PROVIDE 24" x 24" CORNER BARS IN BEAMS AND WALLS TO MATCH CONTINUOUS REINFORCEMENT IN SIZE AND SPACING.

TESTING AND INSPECTIONS

- THE CONTRACTOR SHALL NOTIFY THE TESTING LABORATORY AND THE APPROVED INSPECTOR SUFFICIENTLY IN ADVANCE OF ALL TESTING AND INSPECTIONS.
- THE FOLLOWING INSPECTIONS ARE REQUIRED AS A MINIMUM BY EITHER THE TESTING LABORATORY OR AN INDEPENDENT INSPECTOR AUTHORIZED BY ERIC L. DAVIS ENGINEERING, AS NOTED.
 - OPEN EXCAVATIONS, FOOTINGS AND GRADE BEAM BEARING (LAB)
 - FOOTING, GRADE BEAM, SLAB AND WALL REINFORCING (ELD / INSP. INSP.)
 - STRUCTURAL FILL AND BACKFILL PLACEMENT (LAB)
- THE FOLLOWING TESTS ARE REQUIRED AS A MINIMUM BY THE TESTING LABORATORY.
 - STRUCTURAL FILL DENSITY. TEST IN-PLACE SOIL DENSITY AND MOISTURE CONTENT EVERY 5000 SQUARE FEET OR PORTION THEREOF.
 - CONCRETE COMPRESSIVE STRENGTH. PREPARE A MINIMUM OF 4 SPECIMENS FOR EACH 50 CUBIC YARDS OR LESS OF EACH CONCRETE CLASS PER DAY IN ACCORDANCE WITH ASTM C31. TEST IN ACCORDANCE WITH ASTM C39.
 - CONCRETE SLUMP. PERFORM AT LEAST ONE SLUMP TEST FOR EACH SET OF COMPRESSIVE STRENGTH SPECIMENS. TEST IN ACCORDANCE WITH ASTM C143.
 - CONCRETE AIR CONTENT. DETERMINE AIR CONTENT FOR EACH STRENGTH TEST IN ACCORDANCE WITH EITHER THE PRESSURE METHOD, ASTM C231, THE VOLUMETRIC METHOD, ASTM C 173 OR THE GRAVIMETRIC METHOD, ASTM C138.

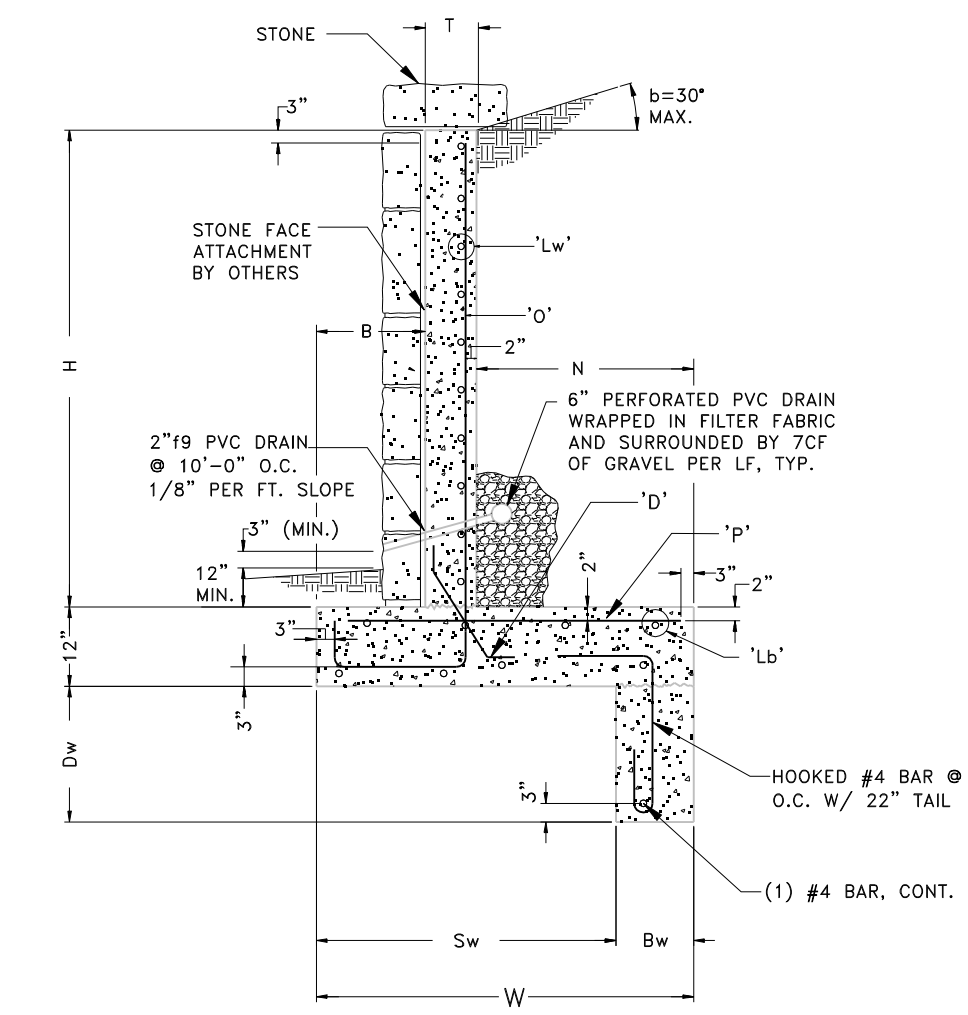
NOTE: TO THE BEST OF OUR KNOWLEDGE ERIC L. DAVIS ENGINEERING, INC., HEREBY STATES THAT THIS PLAN IS AS-BUILT. THE INFORMATION PROVIDED IS BASED ON SURVEYING CONDUCTED AT THE SITE AND INFORMATION PROVIDED BY THE CONTRACTOR.



RETAINING WALL PIER LAYOUT FOR WALLS 4'-0" AND GREATER N.T.S.

SOIL REPORT REFERENCE:
 JEROLD W. KLUG, P.E.
 SITE: LOT 3, BLOCK A
 SIGNAL RIDGE PLACE
 ROCKWALL, TEXAS 75032
 REPORT DATE: MARCH 01, 2008

- NOTES:
- DESIGN DATA USED: 1999 ACI BUILDING CODE
 - BACKFILL CONDITION 30'
 - INTERNAL FRICTION ANGLE 30°
 - BACKFILL DENSITY 115 PCF
 - ALLOWABLE FOOTING BEARING PRESS. 2800 PSF
 - ALLOWABLE PIER SOIL BEARING 4000 PSF
 - ACTIVE SOIL UPLIFT 1000 PSF
 - CONTRACTOR SHALL VERIFY LOCATIONS OF ALL SET BACKS, EASEMENTS, PROPERTY LINES, ZONING AND ANY OTHER GOVERNING FACTORS OF WALL PLACEMENT.
 - IF FIELD CONDITIONS DIFFER FROM THOSE ABOVE PLEASE CONTACT ERIC L. DAVIS ENGINEERING PRIOR TO CONSTRUCTION.
 - PROVIDE POSITIVE DRAINAGE OF 5% MIN. SLOPE.
 - CONCRETE SHALL BE NORMAL WEIGHT, TRANSIT MIXED AND HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS.
 - ALL CONVENTIONAL REINFORCING BARS SHALL BE GRADE 60 IN ACCORDANCE WITH ASTM A615.
 - "HK" DESIGNATES A "HOOK". IF "HK" FLAG APPEARS BEFORE "O" OR "P" BAR CALLOUT, THEN HOOK TO BE IN TOE OF BASE. IF "HK" APPEARS AFTER "P" BAR CALLOUT, THEN HOOK TO BE IN HEEL OF BASE.
 - PROVIDE WALL CONTROL JOINTS AT 15'-0", MAX.



RETAINING WALL SECTION APPLIES TO WALLS LESS THAN 4'-0" N.T.S.

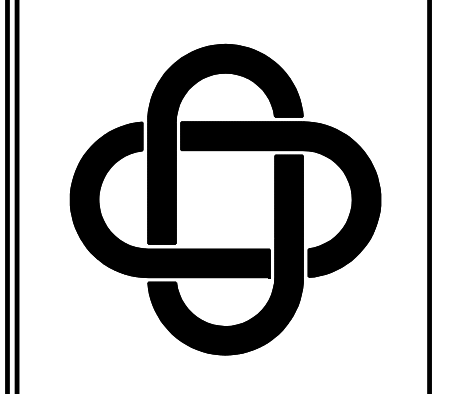
H	B	T	N	W	Bw	Sw	Dw	'O'	'P'	'D'	'Lw'	'Lb'
2'-0"	1'-0"	8"	1'-0"	2'-8"	10"	1'-10"	2'-0"	HK#4@9	#4@9HK	#4@9	#4@12	(5)#4
4'-0"	1'-0"	8"	1'-6"	3'-2"	10"	2'-2"	2'-0"	HK#4@9	#4@9	#4@9	#4@12	(5)#4
6'-0"	1'-3"	8"	2'-8"	4'-7"	N/A	N/A	N/A	HK#4@9	#4@9	#4@9	#4@12	(6)#4
8'-0"	1'-8"	12"	3'-0"	5'-8"	N/A	N/A	N/A	HK#5@12	#6@12	#4@12	#5@12	(5)#5

* PROVIDE 6" LEGS AT EACH END OF BAR.
 † PERTAINS TO WALLS LESS THAN 4'-0"

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RETAINING WALL SECTION A-A APPLIES TO WALLS 4'-0" AND GREATER N.T.S.

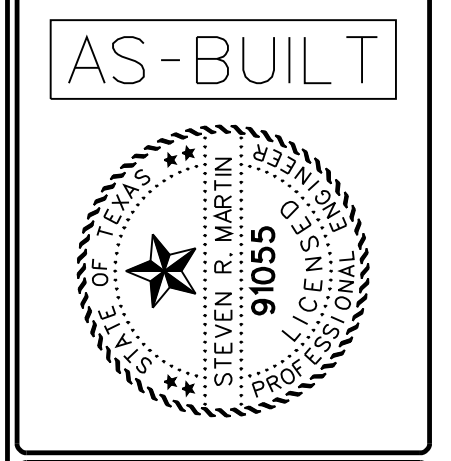
DATE	BY	REV	REVISION



ERIC L. DAVIS
 ENGINEERING, INC.
 425 Pinson Road Ste. C
 Forney, Texas 75126
 972/564-0592 Fax 972/564-6523
 E-Mail eric.davis@engdengineering.com

GRADING PLAN
 SIGNAL RIDGE PLACE
 CITY OF ROCKWALL, ROCKWALL CO, TX

REVISION	DATE	BY	DATE



SCALE: 1"=30'
 SHEET 6 OF 12
 SHEET 6