

BUILDING PAD PREPARATION FOR ALL GROUND BEARING SLABS:

1. STABILIZE AREA TO LIMITS DEFINED ON PLAN WITH CHEMICAL STABILIZATION.
2. STABILIZATION SHALL BE PERFORMED IN SUCH A MANNER THAT THERE WILL BE A PERMANENT REDUCTION IN POTENTIAL VERTICAL RISE TO A MAXIMUM OF 1".
3. CHEMICAL SHALL BE "ECSS 3000" AS FURNISHED AND INSTALLED BY ENVIRONMENTAL SOIL STABILIZATION SYSTEMS, LLC. CONTACT MR. JOHNNY SHERWOOD AT 817-426-8000
4. TESTING LAB SHALL CONFIRM IN WRITING THAT COMPLETED STABILIZATION WILL RESULT IN A MAXIMUM POTENTIAL VERTICAL RISE OF 1" BASED ON SWELL POTENTIAL IN A 15' DEPTH BELOW FINISH GRADE.

STRAIGHT SHAFT PIER NOTES:

1. STRAIGHT SHAFT PIER DESIGN IS BASED ON AN ALLOWABLE VALUE OF 18,000 PSF END BEARING AND 2,500 PSF SIDE FRICTION AS RECOMMENDED IN THE SUBSURFACE REPORT PREPARED BY ALPHA TESTING, INC. THEIR REPORT NO. G090087, DATED MARCH 5, 2009.
2. DRILLED PIERS SHALL BE FOUNDED A MINIMUM OF 2' INTO THE COMPETENT GRAY SHALY LIMESTONE BEARING STRATA AS IDENTIFIED BY THE GEOTECH ENGINEER.
3. BOTTOM OF ALL PIER HOLES SHALL BE SMOOTH, DRY AND FREE OF ALL LOOSE MATERIAL BEFORE PLACING CONCRETE.
4. THE CONTRACTOR SHALL VERIFY THE DEPTH OF THE PIER PRIOR TO CUTTING PIER REINFORCING CAGES. PIER STEEL SHALL BE DELIVERED TO THE JOBSITE IN STANDARD LENGTHS AND CUT AS REQUIRED. 30 BAR DIAMETER LAPS WILL BE ALLOWED IN THE PIER STEEL IF NO MORE THAN 50 PERCENT OF THE BARS ARE LAPPED IN ANY 8 FOOT LENGTH OF THE PIER.
5. REINFORCING STEEL SHOP DRAWINGS SHALL INDICATE PLACING DRAWINGS FOR TEMPLATES TO SET DOWELS AND ANCHOR BOLTS. REINFORCING CAGES SHALL BE ADEQUATELY SUPPORTED TO PROVIDED CLEARANCES INDICATED ON THE DRAWINGS.
6. PIER HOLES SHALL BE CONCRETED WITHIN 8 HOURS OF DRILLING.
7. IF SUBSURFACE WATER CONDITIONS ARE SUCH THAT THE PIER HOLES CANNOT BE INSTALLED IN THE DRY CONDITION, THE CONTRACTOR SHALL INSTALL TEMPORARY CASING TO CONTROL WATER INTRUSION.
8. AUTHOR OF GEOTECH REPORT SHALL VERIFY THAT ALL PIERS HAVE BEEN FOUNDED IN COMPETENT GRAY SHALY LIMESTONE.

CONCRETE MIX DESIGNS:

1. PROVIDE NORMAL WEIGHT CONCRETE HAVING THE FOLLOWING MINIMUM 28 DAY COMPRESSIVE STRENGTHS AND GENERAL CHARACTERISTICS:

USAGE	MIN. 28 DAY COMPRESSIVE STRENGTH
ALL	3,000

2. MINIMUM CONCRETE 28 DAY COMPRESSIVE STRENGTH SHALL BE BASED ON HISTORICAL PERFORMANCE DATA FROM THE SELECTED TRANSIT MIX CONCRETE SUPPLIER AND APPROVED BY THE ENGINEER.
3. IT SHALL BE THE RESPONSIBILITY OF THE CONCRETE SUPPLIER TO SELECT THE PROPER TYPE OF PORTLAND CEMENT (INCLUDING QUANTITIES), AGGREGATES (INCLUDING QUANTITIES) AND WATER CEMENT RATIO TO PRODUCE THE REQUIRED MINIMUM 28 DAY COMPRESSIVE STRENGTHS.
4. IT SHALL BE THE RESPONSIBILITY OF THE CONCRETE SUPPLIER TO RECOMMEND ANY ENHANCING AGENTS OR ADMIXTURES TO PROVIDE A WORKABLE AND DURABLE PRODUCT.
5. IT SHALL BE THE RESPONSIBILITY OF THE CONCRETE SUPPLIER TO COORDINATE WITH THE GENERAL CONTRACTOR FOR ANY ADJUSTMENTS WHICH MAY BE NECESSARY TO PROVIDE FOR HIGH EARLY STRENGTHS TO FACILITATE AND ELIMINATE DELAYS IN CONSTRUCTION.
6. IT SHALL BE THE RESPONSIBILITY OF THE CONCRETE SUPPLIER TO COORDINATE WITH THE GENERAL CONTRACTOR FOR ANY ADJUSTMENTS WHICH MAY BE NECESSARY TO PROVIDE FOR HOT WEATHER OR COLD WEATHER CONCRETING PRECAUTIONS.

CONCRETE REINFORCEMENT:

1. REINFORCING STEEL SHALL BE NEW DEFORMED BILLET STEEL CONFORMING TO A.S.T.M. A-615, GRADE 60.
2. REINFORCING BARS SHALL BE DETAILED IN ACCORDANCE WITH THE A.C.I. DETAILING MANUAL. PROVIDE BAR SUPPORTS AND SPACERS AS REQUIRED.
3. PROVIDE CORNER BARS AT ALL INTERSECTING REINFORCING MEMBERS IN WALLS AND BEAMS. CORNER BARS SHALL BE THE SAME SIZE AS THE LARGER INTERSECTING BAR AND SHALL PROVIDE A MINIMUM LAP OF 30 BAR DIAMETERS.
4. THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCEMENT:
 - A. PIERS 3" CLEAR
 - B. ALL OTHER 1-1/2" CLEAR
5. DETAILING OF REINFORCING BARS IN BEAMS SHALL BE AS FOLLOWS:
 - A. TOP AND BOTTOM BARS TO BE CONTINUOUS BETWEEN SUPPORTS.
 - B. TOP BARS AT THE ENDS OF BEAMS TO HAVE STANDARD 90 DEGREE HOOKS.
 - C. SPLICE TOP BARS AT THE MIDSPAN BETWEEN SUPPORTS. (U.N.O.)
 - D. SPLICE BOTTOM BARS DIRECTLY OVER SUPPORTS. (U.N.O.)
 - E. ALTERNATE SPLICES IN MIDDLE BARS BETWEEN SUPPORTS AND MIDSPANS WITH NO MORE THAN 1/2 OF THE BARS SPLICED AT ANY ONE LOCATION.
 - F. ALL BAR SPLICES SHALL BE 30 BAR DIAMETERS MINIMUM.

EARTHWORK:

1. THE TOP 6" OF FINISH SUB-GRADE SHALL BE SCARIFIED AND RE-COMPACTED TO WITHIN 95% STANDARD PROCTOR DENSITY AT OR SLIGHTLY ABOVE OPTIMUM MOISTURE CONTENT.
2. FILL, IF REQUIRED, SHALL BE SELECT FILL WITH A MINIMUM PLASTICITY INDEX OF 4, A MAXIMUM PLASTICITY INDEX OF 12 AND NO MORE THAN 40% OF THE MATERIAL PASSING THE #200 SIEVE.
3. SELECT FILL, IF REQUIRED, SHALL BE PLACED IN MAXIMUM 8" LOOSE LIFTS AND COMPACTED TO WITHIN 95% STANDARD PROCTOR DENSITY AT OR SLIGHTLY ABOVE OPTIMUM MOISTURE CONTENT.

STRUCTURAL STEEL:

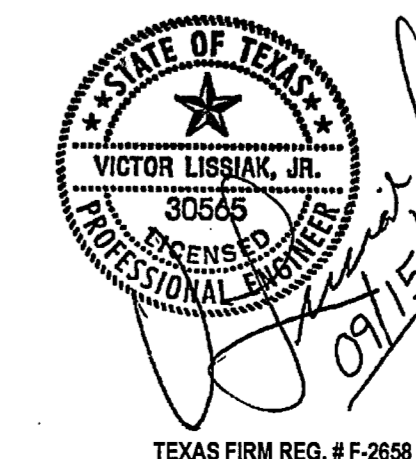
1. STRUCTURAL STEEL SHALL CONFORM TO THE A.I.S.C. "STEEL CONSTRUCTION MANUAL", THIRTEENTH EDITION.
2. WELDED CONNECTIONS SHALL CONFORM TO THE LATEST REVISED CODE OF THE AMERICAN WELDING SOCIETY. WELDING ELECTRODES SHALL CONFORM TO AWS A5.1 OR A5.5 FOR SERIES #E70 ELECTRODES.
3. IN GENERAL, IT IS THE INTENT OF THESE PLANS AND SPECIFICATIONS THAT ALL SHOP CONNECTIONS ARE TO BE WELDED OR BOLTED AND ALL FIELD CONNECTIONS ARE TO BE BOLTED EXCEPT WHERE NOTED ON THE DRAWINGS OTHERWISE.
4. STRUCTURAL STEEL PLATE SHALL CONFORM TO ASTM A572, GR. 50.
5. PROVIDE A PRIME COAT OF RED OXIDE PAINT ON ALL STRUCTURAL STEEL SURFACES PRIOR TO SHIPMENT.
6. ALL HEADED STUDS SHALL BE DRAWN ARC WELDED.

STONE VENEER:

1. STONE SHALL BE SELECTED BY THE LANDSCAPE ARCHITECT
2. PENNSYLVANIA PREMIER BLUESTONE, IF SELECTED, SHALL HAVE A MINIMUM FLEXURAL STRENGTH OF 2,977 PSI AND A MAXIMUM UNIT WEIGHT OF 162.5 PCF.
3. LUEDERS LIMESTONE VENEER FOR REFLECTING POOL FINISH SHALL HAVE A MINIMUM FLEXURAL STRENGTH OF 1,356 PSI AND A MAXIMUM UNIT WEIGHT OF 144.88 PCF.
4. STONE OTHER THAN BLUESTONE OR LUEDERS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND ACCEPTANCE OF MATERIAL PROPERTIES.
5. ALL STONE VENEER SHALL BE ATTACHED TO THE FACE OF CONCRETE USING LATCRETE SPECTRALOCK 2000 IG OR APPROVED EQUIVALENT.
6. ALL STONE VENEER SHALL BE FULLY BEDDED WITH THE SPECIFIED ADHESIVE.
7. ALL SURFACES TO RECEIVE STONE VENEER SHALL BE CLEAN, DRY AND FREE OF ALL DELETERIOUS SUBSTANCES.
8. COURSING SHALL MATCH ARCHITECTURAL ELEVATIONS.
9. CONTRACTOR, AT CONTRACTOR'S EXPENSE, SHALL PREPARE A MOCK-UP TO DEMONSTRATE PROFICIENCY IN MATCHING THE APPROVED MOCK UP PRIOR TO COMMENCEMENT OF THE WORK.

JOINT SEALANT NOTES:

1. ALL JOINTS SHALL BE FILLED FULL WITH SILICONE SEALANT.
2. SILICONE SEALANT COLOR TO BE SELECTED BY LANDSCAPE ARCHITECT.
3. SILICONE SEALANT COLOR TO BE SELECTED BY LANDSCAPE ARCHITECT.
4. VERTICAL JOINTS SHALL NOT EXCEED 1/4".
5. HORIZONTAL JOINTS SHALL NOT EXCEED 3/8".



REVISED: 09/20/10
RE-ISSUED FOR CONSTRUCTION: 09/15/10

GENERAL NOTES					
VITRUVIAN MONUMENT SIGN					
ADDISON, TEXAS					
VIEWTECH, INC.					
4205 BELTWAY DR. ADDISON, TX. 75001 (972) 661-8187 FAX (972) 661-8172					
DESIGN	DRAWN	DATE	SCALE	JOB #	SHEET
VL	RS	09/15/10	1/8"=1'	2010-125	S10