SHEET ENGINEERED BY DATE ARIZONA MASONRY GUILD B. JUEDES 7/11/18 9 1/2 COURSE FENCE - WIND EXP. B - BALANCED FILL REVISIONS ARCHITECTURE | ENGINEERING | FORENSICS 51.1 \triangle PHONE 602 867 2500 WWW.FELTENGROUP.COM * SEE SHEET GSN FOR GENERAL STRUCTURAL NOTES Δ TOP VIEW AT PILASTER GREG II'-4" MAX. (MAY BE REDUCED FOR UNIFORM SPACING) 10'-0' MIN LENGTH OF CONT. JOINT REINF. 4" NOM-TOP OF FENCE SHALL NOT FILLY MORTARED HEAD JOINT AT TOP COURSE ONLY STEP BETWEEN PILASTERS 2" CAP BLOCK AT PILASTERS 4. HWN 9 GA LADDER JOINT REINF AT 16" O.C. CONTINUOUS FOR 10'-0" I.E. NO LAP JOINTS (3 COURSES AS SHOWN) 8' PILASTER BLOCK W S SEE GSN MASONRY (I) #4 VERTICAL BAR = CENTERED IN PILASTER GROUT 50LID 4" FENCE BLOCK-W FULL MORTARED BED AND OPEN HEAD JOINTS FINISH GRADE FINISH GRADE CONT CONCRETE FOOTING W (1) #4 CONT. IO' MIN I'-O" MIN. IO" MIN. 2'-6" MIN. AT TOP AT BOTTOM (1) SECTION (2) SECTION

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ARIZONA MASONRY GUILD

GENERAL STRUCTURAL NOTES

* SEE SHEET SI.I FOR MASONRY FENCE DESIGN

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B. JUEDES

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7/11/18

REVISIONS

GSN

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CONCRETE

- ALL MATERIALS, PROCEDURES, PLACEMENT, FORMHORK, LAPS, ETC. TO CONFORM TO THE LATEST ACLISTANDARDS.
- SHALL MEET ALL THE REQUIREMENTS OF ACI 30I, TYPE II CEMENT UNIO MINIMAM STRENGTHS AT 28 DAYS SHALL BE AS FOLLOWS, UNIO CONVENTIONAL FOUNDATIONS -3000 DEL
- 3, MAXIMUM SIZE OF AGGREGATE SHALL BE I INCH. AGGREGATE PER ASTM C51 OR C33 4. MAXIMUM SLUMP TO BE 8 INCHES
- 5 CALCIUM CHLORIDE OR ADMIXTURES CONTAINING CALCIUM CHLORIDE SHALL NOT BE USED AS ADDITIVES.
- FLYACH MAY BE USED PROVIDED IT MEETS ASTM COLD TYPE F AND DOES NOT EXCEED 20% OF THE NEIGHT OF TOTAL CEMENTITIOUS MATERIAL FOR CONCRETE STRENGTH UP TO AND INCLIDING 3000 PS.
- PROTECT CONCRETE FROM DAMAGE OR REDUCED STRENGTH FROM COLD OR HOT WEATHER IN COMPLIANCE WITH ACI 305 AND ACI 306
- B. THE CONTRACTOR SHALL PROVIDE PROPER CURING TO MINIMIZE SHRINKAGE CRACKING AND ENSURE PROPER STRENGTH GAIN.
- 9. EVALUATION AND ACCEPTANCE OF CONCRETE SHALL BE BASED ON CYLINDER STRENGTH TESTS AS OUTLINED IN THE APPLICABLE BUILDING CODE
- CONCRETE THAT IS IN DIRECT CONTACT NITH NATIVE SOILS CONTAINING WATER-SOLUBLE SULFATES SHALL CONFORM TO THE FOLLOWING-FOR SULFATE CONCENTRATIONS GREATER THAN OR EDULAT O JUBB BUT LESS THAN O ZHE BY REGIST CONCRETE SHALL BE MADE WITH ASTM C 150 TYPE II CEMENT, OR AN ASTM C 595 OR C 1151 HYDRAULIC CEMENT MEETING MODERATE SULFATE RESISTANT HYDRAULIC CEMENT (MS) DESIGNATION FOR SULFATE CONCENTRATIONS FOUND TO OR GREATER THAN D 28 BY MEIGHT, CONCRETE SHALL BE MADE WITH ASTM C 150 TYPE V CEMENT OR AN ASTM C 595 OR C 1151 HYDRAULIC CEMENT MEETING HIGH SULFATE RESISTANT HYDRAULIC CEMENT (HS) DESIGNATION AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 300 OPS 1AT 25 DAYS

MASONRY

- I. ALL MATERIALS, PROCEDURES, PLACEMENT, LAPS, ETC., TO CONFORM TO THE LATEST ACI STANDARDS.
- 2. CONCRETE MASONRY UNITS NET AREA COMPRESSIVE STRENGTH OF CMU = 1900 PSI, ASTM C90, Fm = 1500 PSI
- GROUT 2000 PSI CONFORMING TO ASTM C476
- 4. MORTAR TYPE 5 2000 PSI PORTLAND CEMENT / LIME OR MORTAR CEMENT
 CONFORMING TO ASTM C210, MORTAR MAY BE USED IN LIEU OF GROUT IN THE PILASTER
 CELL PROVIDED THAT THE MORTAR IS PLACED IN 8 INCH LIFTS AS THE FENCE IS BUILT
 JOINT REINFORCING IN = 100000 PSI CONFORMING TO ASTM ARSI.
- 6. JOINT REINFORCING TO DE CONTINUOUS (NO SPLICES) AS SHOWN IN THE DRAWINGS, AS AN ALTERNATE, JOINT REINFORCING MAY BE SPLICED WITH NO LAP, PROVIDED THAT ADDITIONAL ROYS OF JOINT REINFORCING ARE PLACED AT ADJACENT BED JOINTS AND PROVIDED THAT THE SPLICES BETWEEN ADJACENT ROYS OF JOINT REINFORCEMENT ARE STAGGERED BY A MINIMAY OF 4 FEET.
- ALL REINFORCED CELLS OR PILASTERS SHALL BE SOLID GROUTED.
- MASONRY UNITS AND MORTAR THAT ARE IN DIRECT CONTACT WITH NATIVE SOILS CONTAINING WATER SOLUBLE BULFATES SHALL BE ADDRESSED BY THE CHNER OR OWNERS'S REPRESENTATIVE.
- CMU EXPOSURE TO MATER (BOTH ABOVE AND BELOW GRADE) IS NOT ADDRESSED IN THIS
 DESIGN AND SHALL BE ADDRESSED BY THE OWNER OR OWNER'S REPRESENTATIVE.

STEEL REINFORCEMENT

- I, SHALL BE SUPPLIED AND INSTALLED PER THE LATEST ACI STANDARDS.
- USE ASTM A615 GRADE 60
- THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCEMENT.
 CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH

 STEVPORTED TO EARTH OR MEATINET METERS.

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 THE FOLLOWING MINIMU
- EXPOSED TO EARTH OR WEATHER I 1 1/2"

 NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND 3/4"
- DALESS NOTED OTHERWISE, LAP SPLICES SHALL BE 48 BAR DIAMETERS MINIMUM. STAGGER ALTERNATE SPLICES A MINIMUM OF I LAP LENGTH. PROVIDE BENT CORNER BARS TO MATCH AND LAP WITH HORIZONTAL BARS AT CORNERS AND INTERSECTIONS OF FOOTINGS AND WALLS.
- SECURELY TIE ALL BARS IN LOCATION BEFORE PLACING CONCRETE

GRADING AND DRAINAGE

- I. PROPER GRADING SHALL BE PROVIDED DURING CONSTRUCTION AS WELL AS THROUGHOUT THE LIFE OF THE STRUCTURE.
- LANDSCAPE MATERING SHOULD NOT LEAD TO MOISTURE INFILITRATION OR MOISTURE
 CONTENT FLUCTUATION IN THE SOILS INDER THE FOUNDATION. IT IS RECOMMENDED THAT
 VEGETATION BE KEPT A MINIMUM OF 3 PEET FROM THE STRUCTURE AND THAT THE
 VEGETATION BE DESERT TYPE. (SHALLON WATERING, MOISTURE NOT TO PENETRATE INTO
 THE SOIL MORPE THAN A MICHES!.
- IT IS RECOMMENDED THAT TREES BE KEPT AWAY FROM THE STRUCTURE SUCH THAT THE DRIP LINE OF THE MATURE TREE DOES NOT OVERLAP THE FOUNDATION

SOIL

- I. SEE SHEET SIJ FOR GEOTECHNICAL REPORT INFORMATION
- 2. IN THE ABSENCE OF A GEOTECHNICAL REPORT, PRESIMENTIVE SOIL DESIGN VALUES SHALL BE USED. THE CLIENT ACCEPTS FULL RESPONSIBILITY FOR THE ADEQUACY OF THE PRESIMENTIVE SOIL DESIGN VALUES USED FOR THE PROJECT. THE CLIENT ALSO ASSIMES FULL RESPONSIBILITY FOR THE ADEQUACY OF THE ASSIMED NON-EXPANSIVE, NON-COLL PASABLE AND NON-CORROSIVE SOIL PROFERTIES.
- PRESUMPTIVE SOIL DESIGN VALUES ARE: ALLOHABLE SOIL BEARING = 1000 P.S.F. I2" BELON GRADE, EQUIVALENT FLUID PRESSURE =35 ps/rT, PASSIVE PRESSURE =200 ps/rt. COEFFICIENT OF FRICTION =35
- 4. SOIL IS ASSUMED TO BE NON-EXPANSIVE NON-COLLAPSABLE, AND NON-CORROSIVE
- ALL EXCAVATION, FILL (INCLUDING RETAINING) COMPACTION, AND 50IL RELATED OPERATIONS SHALL BE PERFORMED ACCORDING TO THE GEOTECHNICAL REPORT

WIND

- IO PSF LATERAL WIND PRESSURE 2012 IBC, IOS MPH, EXP., B ASCE 7-IO NOTE: CASE A OF FIG. 29.4-1 APPLIED, CASE B AND CASE C NOT REQUIRED BY LOCAL STANDARDS FOR LOW FREESTANDING MASCARY FENCES.
- 2 13.5 PSF LATERAL WIND PRESSURE, 2012 IBC, 105 MPH, EXP. C ASCE 1-10 NOTE: CASE A OF FIG. 29.4-1 APPLIED. CASE B AND CASE C NOT REQUIRED BY LOCAL STANDARDS FOR LOW PREESTANDING MASONICY FEMES.

DISCREPANCIES

- I, THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL DIMENSIONS AND CONDITIONS WITH THE DRAWINGS PRIOR TO START OF CONSTRUCTION. THE CONTRACTOR SHALL INFORM THE ARCHITECT OR ENGINEER OF ANY DISCREPANCIES OR OHISSIONS NOTED ON THE DRAWINGS, ANY SUCH DISCREPANCIES, OHISSIONS, OR VARIATION NOT REPORTED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 2. NOTED DIMENSIONS TAKE PRECEDENT OVER SCALED

DAMPPROOFING

- I, DAMPPROOFING OF THOSE PORTIONS OF FENCES BELOW GRADE IS NOT REQUIRED PER CODE, BUT SHALL BE SELECTED BY THE OWNER OR OWNER'S REPRESENTATIVE.
- 24. AS AN ALTERNATE TO DAMPPROOFING, INTEGRAL WATER REPELLANT UNITS AND WATER REPELL ANT MORTAR MAY BE USED.

MAINTENANCE

1. OWNER SHALL PROPERLY MAINTAIN THE MASONRY FENCE, PROPER MAINTENANCE. INCLIDES BUT IS NOT LIMITED TO PROTECTING FENCE FROM IRRIGATION SPRAY, MAINTAINING PROPER GRADING AND DRAINAGE ARCUND FENCES, KEPFING SHRUB AND TREE ROOTS FROM DISTURBING THE FENCE, PREVENTING EROSION AND PREVENTING EXCESS BACKFILL BEING PLACED GAINST FENCE.

METHOD OF CONSTRUCTION

- THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURE
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF THE STRUCTURE DURING CONSTRUCTION AND SHALL PROVIDE ADEQUATE SHORING AND BRACING DURING CONSTRUCTION. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE SAFETY REFULL ATIONS.
- THE CONTRACTOR SHALL COORDINATE THE WORK OF ALL TRADES AND SHALL CHECK ALL DIMENSIONS. ANY DISCREPANCIES SHALL BE CALLED TO THE ATTENTION OF THE ARCHITECT OR ENGINEER AND SHALL BE RESOLVED BEFORE PRECEDING WITH THE WORK AFFECTED.

GENERAL

- ALL WORK SHALL COMPLY WITH THE GENERAL NOTES, DRAMINGS, APPLICABLE BUILDING CODES AND ALL LOCAL, ORDINANCES, LAMS, REGULATIONS, AND PROTECTIVE COVENANTS GOVERNING THE SITE OF MORK.
- 2 IN CASE OF CONFLICT, THE MORE STRINGENT REQUIREMENTS SHALL GOVERN
- TYPICAL DETAILS SHALL APPLY UNLESS SHOWN OTHERWISE IN THE DRAWINGS.
 NO STRICTURAL MEMBERS SHALL BE CUT, NOTCHED OR OTHERWISE PENETRATED UNLESS SPECIFICALLY APPROVED BY THE STRICTURAL ENGINEER IN ADVANCE OR AS SHOWN ON THESE DRAWINGS.
- 5. THE STANDARD OF CARE FOR ALL PROFESSIONAL ENGINEERING, AND RELATED SERVICES PERFORMED OR FURNISHED BY FELTEN GROUP, WILL BE THE CARE AND SKILL ORDINARLIS USED BY MEMBERS OF THE SUBJECT PROFESSION PRACTICING UNDER SIMILAR CIRCUMSTANCES AT THE SAME TIME AND IN THE SAME LOCALITY, FELTEN GROUP MAKES NO WARRANTIES, EXPRESS OR IMPLIED, OR OTHERWISE, IN CONNECTION WITH FELTEN GROUP'S SERVICES, FELTEN GROUP AND ITS CONSULTANTS MAY USE OR RELY LIPON THE DESIGN SERVICES OF OTHERS, INCLUDING, BUT NOT LIMITED TO, ENGINEERS, ARCHITECTS, DESIGNERS, CONTRACTORS, MANDERS, AND SIPPLIERS.
- 6. ALL DESIGN DOCUMENTS PREPARED OR FURNISHED BY FELTEN GROUP ARE INSTRUMENTS OF SERVICE, AND FELTEN GROUP RETAINS OWNERSHIP AND PROPERTY INTEREST (INCLUDING THE COPYRIGHT) IN SUCH DOCUMENTS, WHETHER OR NOT THE PROJECT IS COMPLETED, CLIENT SHALL, NOT REUSE THE DOCUMENTS WITHOUT WRITTEN PERMISSION PROM BET TON GROUP.
- 1. THE CONTRACTOR, NOT FELTEN GROUP, IS RESPONSIBLE FOR THE CONSTRUCTION OF THE PROJECT, AND FELTEN GROUP IS NOT RESPONSIBLE FOR THE ACTS OR CMISSIONS OF ANY CONTRACTOR, SUBCONTRACTOR OR MATERIAL SUPPLIER: FOR SAFETY PRECAUTIONS, PROGRAMS OR ENFORCEMENT; OR FOR CONSTRUCTION PEAKS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES ENFOLYED BY THE CONTRACTOR FELTEN GROUP SHALL NOT AT ANY TIME SUPERVISE, DIRECT, OR HAVE CONTROL OVER ANY CONTRACTORS.
- FELTEN GROJE NEITHER GUARANTEES THE PERFORMANCE OF ANY CONTRACTOR NOR ASSIMES RESPONSIBILITY FOR ANY CONTRACTOR'S FAILURE TO FURNISH AND PERFORM ITS HORK IN ACCORDANCE WITH THE COMPRACT BETWEEN CLIENT AND SUCH CONTRACTOR.
- 9. FELTEN GROUP MILL NOT HAVE CONTROL OVER NOR BE NEITHER RESPONSIBLE NOR LIABLE IN ANY MAY FOR SAFETY PROCEDURES, SAFETY TRAINING AND PROGRAMS OR OTHER SAFETY RELATED ASPECTS OF THE WORK OF THE PROJECT SINCE THESE ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- IO. WALL HEIGHT SHOWN BASED ON ACTUAL 8" TALL BLOCK HEIGHT
- II TOP OF FENCE SHALL NOT STEP BETWEEN PILASTERS

SUBSTITUTIONS

I. ALL PRODUCT SUBSTITUTIONS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO CONSTRUCTION, CONTRACTOR TO SUBMIT DOCUMENTATION TO DEMONSTRATE THAT THE PROPOSED SUBSTITUTION IS EQUAL TO THE SPECIFIED PRODUCT. PRODUCT SUBSTITUTIONS MAY DE USED PROVIDED THEY ARE APPROVED BY THE ENGINEER OF RECORD IN WRITING.

SPECIAL INSPECTION

L. SPECIAL INSPECTION SHALL BE PROVIDED AS REQUIRED BY THE LOCAL BUILDING OFFICIA