

ADDENDUM NO. 3

DATE: April 14, 2014

RE: **City of San Antonio, WBS Element:40-00389
Transportation & Capital Improvements
Raintree Park Improvements
6860 Raintree Path
San Antonio, Texas, 78233
Architect's Project No. 1301A1**

FROM: Fisher Heck, Inc., Architects
915 South St. Mary's Street
San Antonio, Texas 78205
(210) 299-1500

TO: All Plan Holders

This Addendum forms a part of the Contract Documents and modifies the original Bidding Documents dated February 5, 2014 as noted below. Acknowledge receipt of this Addendum in the space provided on the Proposal Form. Failure to do so may subject Bidder to disqualification.

This Addendum consists of 2 pages and 3 sheet drawings.

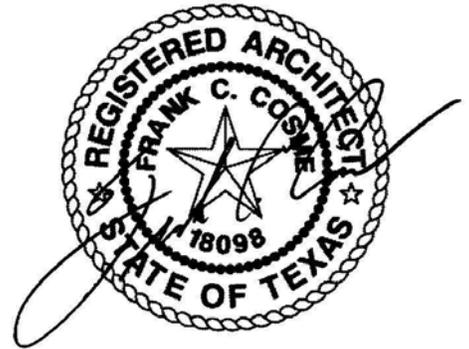
CHANGES TO SPECIFICATIONS:

- 3.1. **Addendum 3 Acknowledgement Sheet:** Add this page to the submission documents. See attached page AD3.1
- 3.2. **Section 107300, Specialties Manufacturers of Protective Covers, para. 2.01.A.1:** Add to the end of the paragraph as an approved manufacturer, Litchfield, Model 20'(AS), Terry Morgan, 800-451-4138.

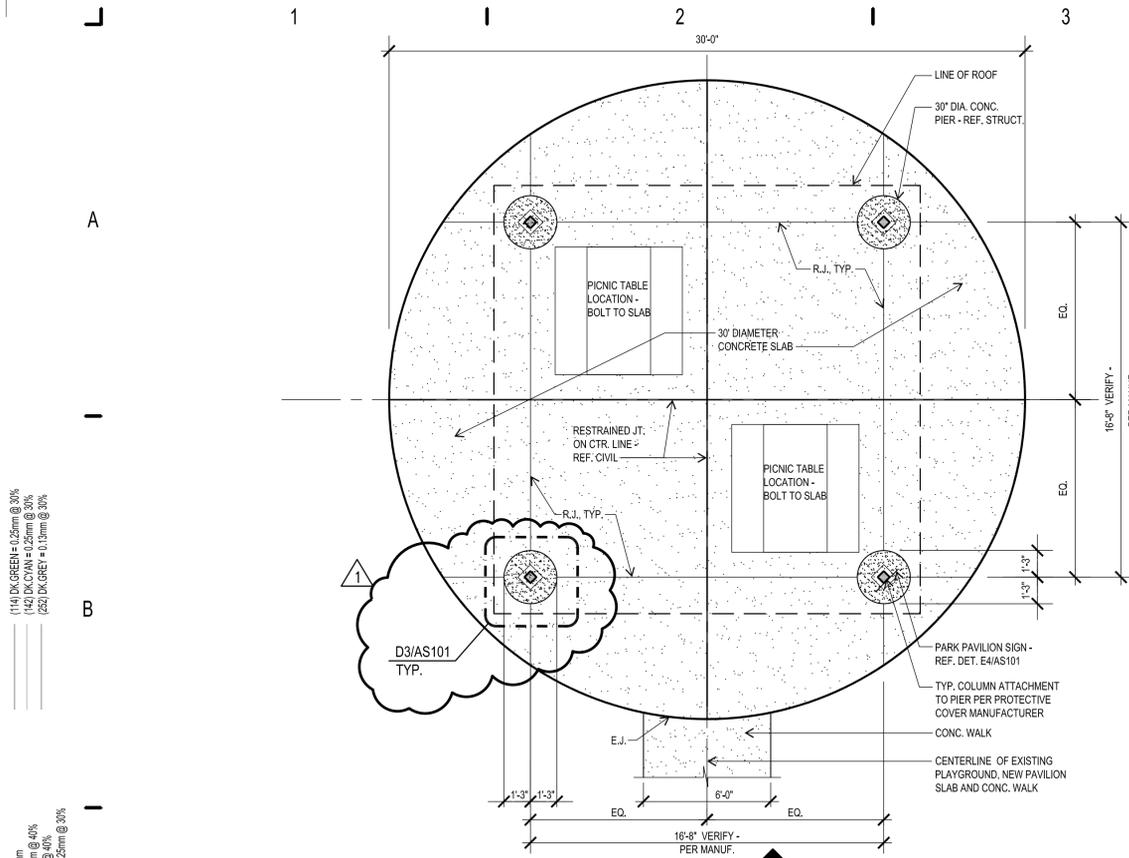
CHANGES TO DRAWINGS:

- 3.3. **Sheet AS-101:** Replace with the attached AS-101R (SD3.2).
- 3.4. **Sheet S-101:** Add the attached drawing S-101 (SD3.3).
- 3.5. **Sheet S-201:** Add the attached drawing S-201 (SD3.4).

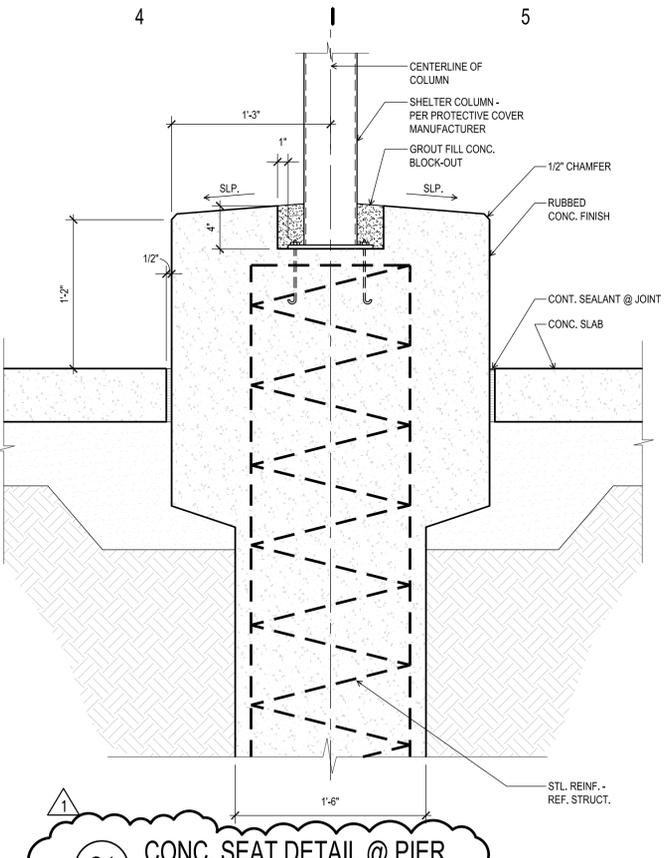
END OF ADDENDUM NO. 3



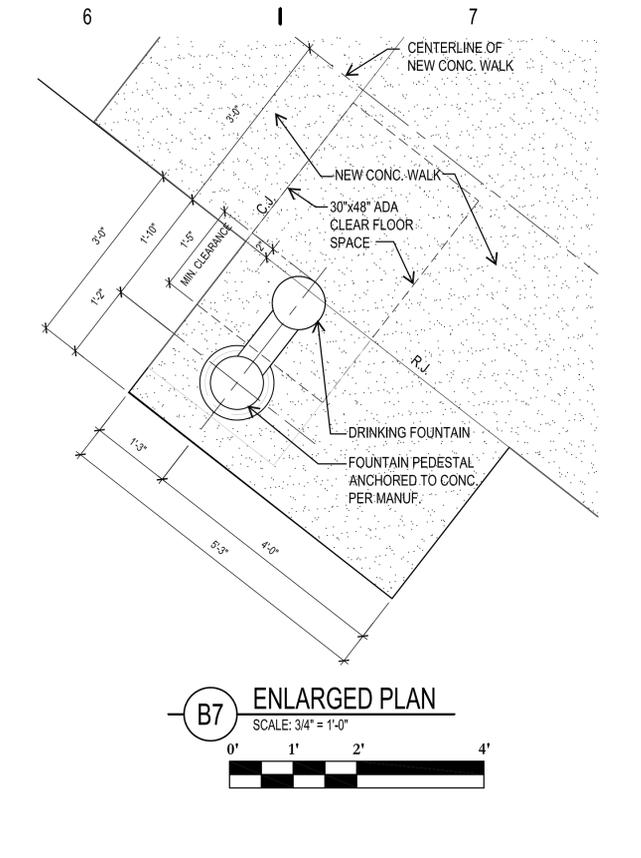
4-14-14



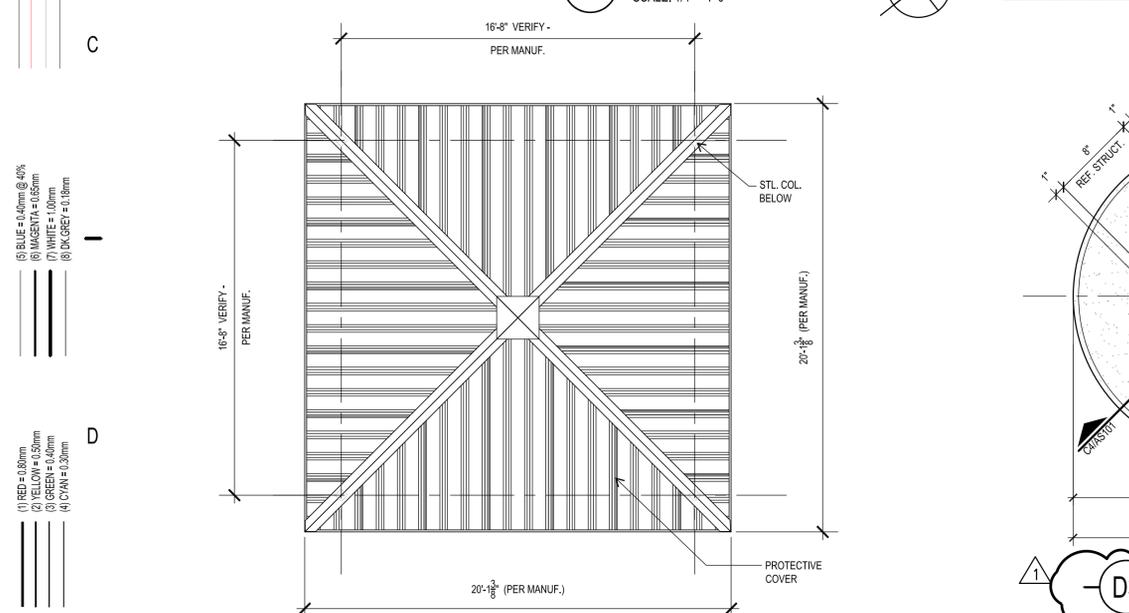
C2 NEW PAVILION PLAN
SCALE: 1/4" = 1'-0"



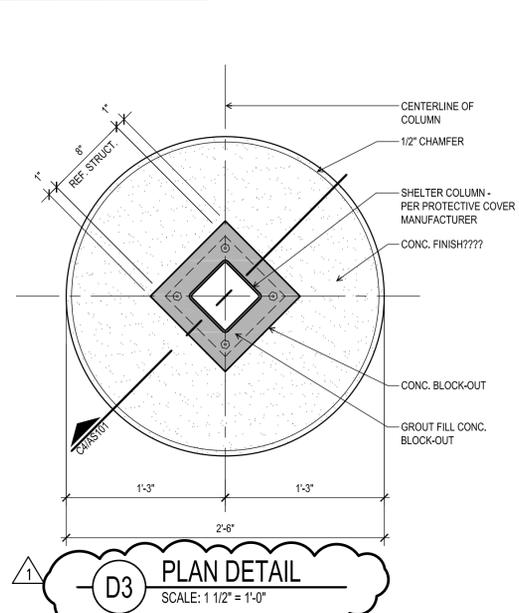
C4 CONC. SEAT DETAIL @ PIER
SCALE: 1 1/2" = 1'-0"



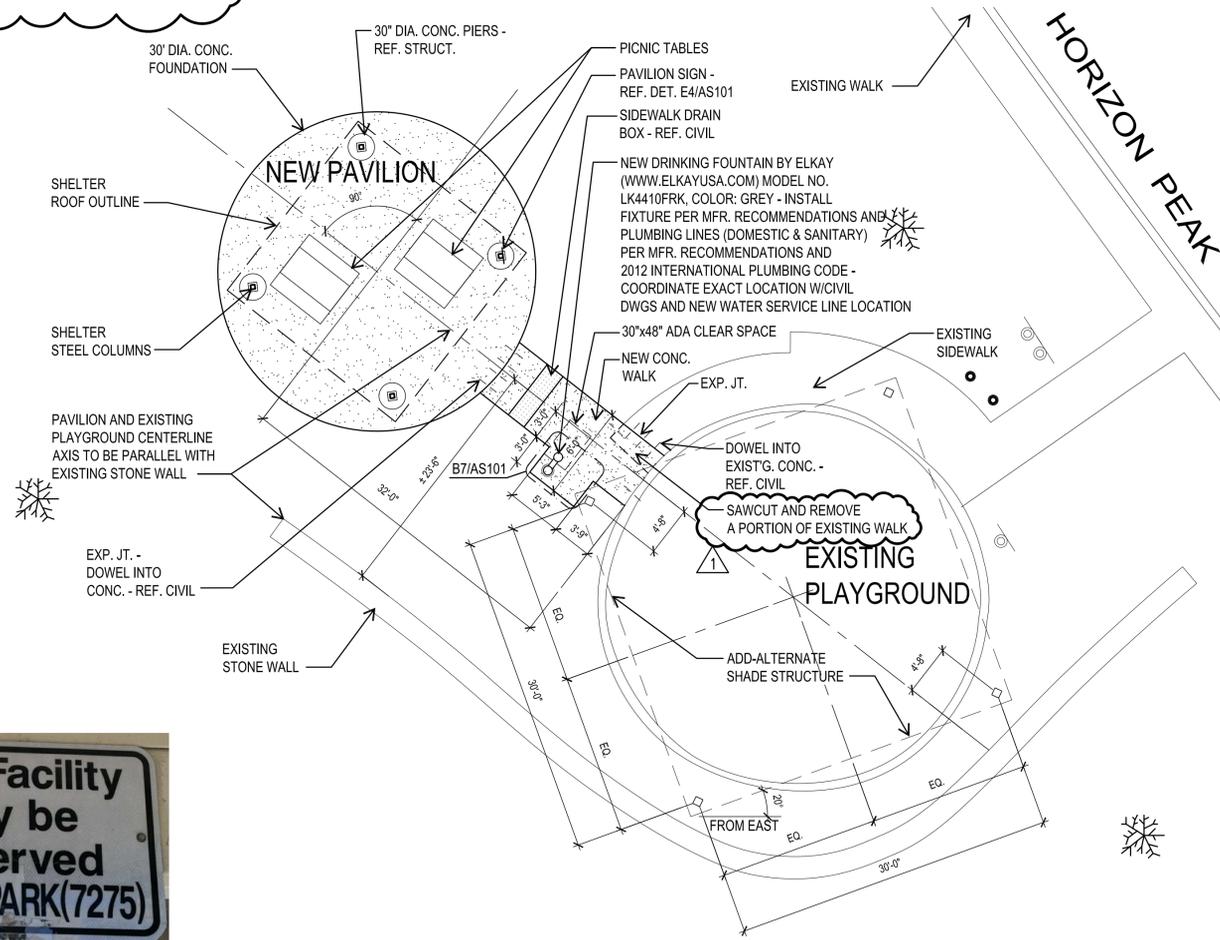
B7 ENLARGED PLAN
SCALE: 3/4" = 1'-0"



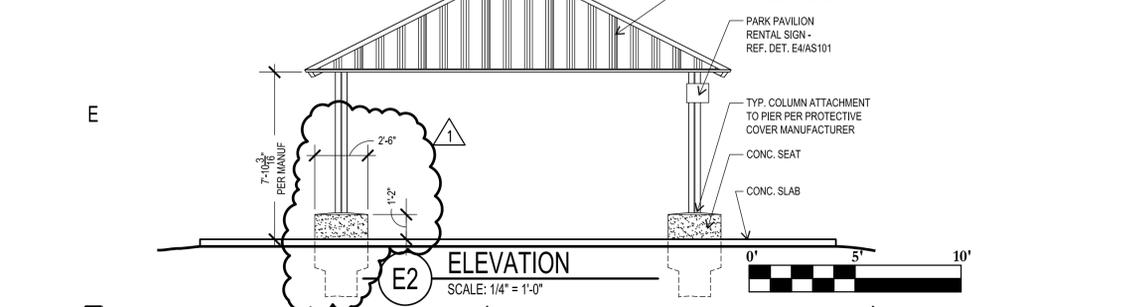
D2 ROOF PLAN
SCALE: 1/4" = 1'-0"



D3 PLAN DETAIL
SCALE: 1 1/2" = 1'-0"



E5 PAVILION SITE PLAN
SCALE: 1/8" = 1'-0"



E2 ELEVATION
SCALE: 1/4" = 1'-0"



E4 PARK PAVILION SIGN
SCALE: N.T.S.
PARK PAVILION RENTAL SIGN - REF. NO. 138628 BY BUDGET SIGNS, LTD. 2801 WEST AVE., SAN ANTONIO, TEXAS 78201 PHONE: 210.349.7446 FAX: 210.342.9800 felissa@budsigs.com

- (1) LT. GREY = 0.25mm @ 30%
- (14) DK. GREEN = 0.25mm @ 30%
- (14) DK. CYAN = 0.25mm @ 30%
- (25) DK. GREY = 0.15mm @ 30%
- (6) LT. GREY = 0.8mm
- (10) DK. GREY = 0.25mm @ 40%
- (11) PINK = 0.18mm @ 40%
- (42) DK. YELLOW = 0.25mm @ 30%
- (5) BLUE = 0.4mm @ 4%
- (7) BLACK/WH = 0.35mm
- (8) DK. GREY = 0.35mm
- (1) RED = 0.8mm
- (2) GREEN = 0.35mm
- (3) CYAN = 0.35mm
- (4) CYAN = 0.35mm

RAINTREE PARK
6860 RAIN TREE PATH
SAN ANTONIO, TEXAS

PAVILION SITE PLAN
SHEET TITLE

PROJECT NO. 1301A1

PRELIMINARY, NOT FOR CONSTRUCTION

ISSUED FOR CONSTRUCTION 2/5/14

REVISIONS

ADDM 3 - 4/14/14

SHEET NO.

AS-101R

AD3.2

fisherheck architects
915 S. St. Mary's Street
San Antonio, Texas 78205
210-299-1500 fax 299-1622

REGISTERED ARCHITECT & SYLL. STATE OF TEXAS
2052014

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STRUCTURAL NOTES

GENERAL:

- GN-1 BUILDING CODE: IBC 2012 EDITION WITH CITY OF SAN ANTONIO AMENDMENT.
- GN-2 THE DETAILS DESIGNATED AS "TYPICAL DETAILS", APPLY GENERALLY TO THE DRAWINGS IN ALL AREAS WHERE CONDITIONS ARE SIMILAR TO THOSE DESCRIBED IN DETAILS.
- GN-3 THE GENERAL CONTRACTOR SHALL VERIFY AND COORDINATE REQUIREMENTS OF OTHER TRADES (ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, ETC.) WITH THE STRUCTURAL DOCUMENTS PRIOR TO FABRICATION OR INSTALLATION OF ANY STRUCTURAL MEMBERS.
- GN-4 THE CONTRACTOR AND FABRICATOR SHALL VERIFY ALL QUANTITIES, DIMENSIONS AND CONDITIONS THOROUGHLY WITH THE CONTRACT DOCUMENTS AND THEN NOTIFY THE ARCHITECT/ENGINEER OF ANY DISCREPANCIES OR INCONSISTENCIES BEFORE SUBMITTING SHOP DRAWINGS AND PROCEEDING WITH THE WORK. DO NOT SCALE DRAWINGS FOR DIMENSIONS.
- GN-5 COMPLETED SHOP DRAWINGS SHALL BE PROVIDED, AS SPECIFIED, FOR ALL FABRICATED ITEMS AND SHALL BE REVIEWED BY THE GENERAL CONTRACTOR PRIOR TO FABRICATION. STRUCTURAL DRAWINGS SHALL NOT BE REPRODUCED FOR SHOP DRAWINGS. USE OF STRUCTURAL DRAWINGS WITHOUT PERMISSION IS GROUNDS FOR REJECTION OF SHOP DRAWINGS. THE STRUCTURAL ENGINEER WILL REVIEW SHOP DRAWINGS FOR THE LIMITED PURPOSE OF CHECKING FOR CONFORMANCE WITH INFORMATION GIVEN AND THE DESIGN CONCEPT EXPRESSED IN THE CONTRACT DOCUMENTS. THEREFORE, ALL CLOUDED DIMENSIONS, INDICATED ON ANY SHOP DRAWINGS, THAT ARE RELATIVE TO EXISTING STRUCTURES SHALL BE VERIFIED BY THE CONTRACTOR AND FABRICATOR. AS A MINIMUM, THE FOLLOWING SHOP DRAWINGS SHALL BE SUBMITTED:
 - A. CONCRETE MIX DESIGN FOR EACH TYPE OF CONCRETE TO BE USED.
 - B. CONCRETE REINFORCING STEEL SHOP DRAWINGS INCLUDING PLACEMENT DRAWINGS AND CUT SHEETS.
- GN-6 SHOP DRAWINGS NOT PREVIOUSLY REVIEWED BY THE GENERAL CONTRACTOR SHALL BE RETURNED WITHOUT REVIEW BY STRUCTURAL ENGINEER. STRUCTURAL ENGINEER DOES NOT BEAR ANY RESPONSIBILITY TO THE STRUCTURAL MEMBERS BUILT WITHOUT APPROVED SHOP DRAWINGS.
- GN-7 GENERAL CONTRACTOR SHALL INSPECT JOB FOR COMPLETION BEFORE SCHEDULING ANY OBSERVATION BY THE ENGINEER.
- GN-8 SEE ARCH'L AND MEP DRAWINGS FOR LOCATIONS AND SIZES OF SLAB OPENINGS, SLEEVES, INSERTS, ANCHORS AND BOLTS REQUIRED BY VARIOUS TRADES.
- GN-9 THE ENGINEER SHALL NOT HAVE CONTROL OF, AND SHALL NOT BE RESPONSIBLE FOR, CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES, FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK, FOR THE ACTS OR OMISSIONS OF THE CONTRACTOR, SUBCONTRACTOR, OR ANY OTHER PERSONS PERFORMING ANY OF THE WORK, OR FOR THE FAILURE OF ANY OF THEM TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- GN-10 PERIODIC SITE OBSERVATIONS BY FIELD REPRESENTATIVES OF ALPHA CONSULTING ENGINEERS, INC. ARE SOLELY FOR THE PURPOSE OF DETERMINING IF THE WORK OF THE CONTRACTOR IS PROCEEDING IN ACCORDANCE WITH THE STRUCTURAL CONTRACT DOCUMENTS. THESE LIMITED SITE OBSERVATIONS ARE NOT INTENDED TO BE A CHECK OF THE QUALITY OR QUANTITY OF THE WORK, BUT RATHER PERIODIC IN AN EFFORT TO INFORM THE OWNER OF DEFECTS AND DEFICIENCIES IN THE WORK OF THE CONTRACTOR.

SCHEDULE OF SITE OBSERVATIONS BY ENGINEER:

- SO-1 ALL STRUCTURAL ELEMENTS OF THE BUILDING SHALL BE OBSERVED BY THE STRUCTURAL ENGINEER'S REPRESENTATIVE DURING THE CONSTRUCTION PHASE, SO THAT A FINAL LETTER OF COMPLIANCE CAN BE PROVIDED TO THE OWNER AND/OR BUILDING AUTHORITY.
 - SO-2 PRIOR TO THE BEGINNING OF CONSTRUCTION, THE CONTRACTOR SHALL ARRANGE A MEETING WITH THE STRUCTURAL ENGINEER TO SET UP A SCHEDULE FOR THE FOLLOWING OBSERVATIONS, NOT TO EXCEED THE SPECIFIED NUMBER OF VISITS:
 - A. CONCRETE: FOR EACH CONCRETE POUR UNLESS NOTED OTHERWISE BY THE ENGINEER. SEE NOTE 5 OF CONCRETE AND CONCRETE REINFORCEMENT - ONE VISIT.
 - B. NOTIFY ARCHITECT AT LEAST 24 HOURS BEFORE EACH SITE OBSERVATION IS REQUIRED TO ALLOW TIME FOR ARRANGEMENTS TO BE MADE WITH ENGINEER FOR SITE OBSERVATION.
- NOTE: THESE STRUCTURAL OBSERVATIONS ARE THE REQUIREMENTS OF THE STRUCTURAL ENGINEER AND DOES NOT INCLUDE OR WAIVE THE RESPONSIBILITY FOR THE SPECIAL INSPECTIONS REQUIRED BY CHAPTER 17 OF THE 2012 INTERNATIONAL BUILDING CODE. SPECIAL INSPECTION SHALL BE PERFORMED BY THE SPECIAL INSPECTOR WHO SHALL BE HIRED BY OWNER TO MEET CHAPTER 17 OF IBC 2012.

BUILDING PAD PREPARATION:

A SUBSURFACE SOIL STUDY WAS PREPARED BY ARIAS & ASSOCIATES. THEIR REPORT/PROJECT NUMBER FOR THIS SITE IS 2013-644, DATED APRIL 03, 2014 AND WAS COMPLETED ON APRIL 01, 2014. THIS GEOTECHNICAL REPORT AND ITS ADDENDUMS WAS USED IN THE DESIGN OF THE STRUCTURES FOUNDATION. THE GENERAL CONTRACTOR SHALL OBTAIN A COPY OF THIS REPORT PRIOR TO THE BEGINNING OF ANY FOUNDATION WORK.

- UF-1 PROVIDE TEMPORARY PROVISION FOR DRAINAGE OF THE BUILDING PAD AREA DURING CONSTRUCTION AND PERMANENT DRAINAGE AWAY FROM BUILDING AFTER CONSTRUCTION.
- UF-2 AT THE ENTIRE AREA OCCUPIED BY THE BUILDING (AND FOR A DISTANCE OF 3.0 FT. OUTSIDE OF THE BUILDING), REMOVE ALL ORGANIC AND OTHER DELETERIOUS MATERIALS. DO NOT USE FOR UNDERFLOOR FILL. REMOVE ADDITIONAL SOIL TO ALLOW MINIMUM 12" OF COMPACTED STRUCTURAL FILL. EXPOSED SUBGRADE SHALL BE RELATIVELY LEVEL.
- UF-3 THE EXPOSED SUBGRADE SHALL BE SCARIFIED AND COMPACTED PER THE GEOTECHNICAL REPORT MENTIONED ABOVE.
- UF-4 BRING THE BUILDING PAD TO UNDERSIDE OF SLAB WITH SELECT STRUCTURAL FILL AS SPECIFIED PER THE GEOTECHNICAL REPORT.
- UF-5 PERFORM ALL EARTHWORK DESCRIBED ABOVE BEFORE TRENCHING FOR GRADE BEAMS, MEP ITEMS, OR UTILITY LINES.
- UF-6 EXCAVATE BEAM TRENCHES TO MEET PLANNED DIMENSIONS. PRIOR TO PLACEMENT OF CONCRETE, HAND COMPACT BOTTOM OF BEAM TRENCHES PER THE GEOTECHNICAL REPORT. STANDING WATER SHOULD NOT BE PERMITTED IN THE BEAM TRENCHES AFTER FINAL COMPACTATION AND BEFORE PLACEMENT OF CONCRETE. REMOVE ALL LOOSE MATERIALS AND UNSUITABLE SOILS DUE TO RAINFALL OR BY DESICCATION.
- UF-7 AT AREAS OUTSIDE THE BUILDING LINE, SLOPE THE TOP SURFACE OF FILL A MIN. 5% FOR A DISTANCE OF 10 FEET TO MATCH FINISH GRADE AND HOLD DOWN A MINIMUM OF 10 INCHES BELOW FINISH FLOOR LINE. GUTTER DOWNSPOUTS EXTEND AT LEAST THREE (3) FEET PAST THE EDGE OF BUILDING, UNLESS NOTED OTHERWISE ON THE CIVIL ENGINEERS CONSTRUCTION DOCUMENTS.
- UF-8 THE OWNER IS TO EMPLOY AN INDEPENDENT TESTING LABORATORY TO TAKE DENSITY TESTS FOR SUBGRADE & EACH LIFT OF SELECT FILL TO MEET THE REQUIREMENTS FOR SPECIAL INSPECTIONS.
- UF-9 IF UTILITY TRENCHES ARE REQUIRED, WE RECOMMEND THAT MEASURES BE TAKEN TO PROHIBIT TRANSMITTING WATER UNDER THE BUILDING PAD. REFERENCE GEOTECHNICAL REPORT OR CONTACT GEOTECHNICAL ENGINEER FOR BACKFILL REQUIREMENTS.

CONCRETE AND CONCRETE REINFORCEMENT:

- CN-1 STRUCTURAL CONCRETE SHALL BE IN ACCORDANCE WITH THE CODE APPLICABLE EDITION OF "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE(ACI 318)", THE AMERICAN CONCRETE INSTITUTE.
- CN-2 ALL CONCRETE REINFORCEMENT SHALL BE NEW DOMESTIC DEFORMED BILLET STEEL, CONFORMING TO ASTM A 615, GRADE 60, EXCEPT WELDABLE REBARS ASTM A706, GR. 60, WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185, GRADE 70".
- CN-3 DETAIL REINFORCING BARS AND PROVIDE BAR SUPPORTS AND SPACERS IN ACCORDANCE WITH ACI 315.
- CN-4 ALL REINFORCING SHALL BE PROPERLY CHAIRED AND TIED PER ACI 315 (SP66) AND CRSI (PLACING REINFORCING BARS) PRIOR TO PLACING CONCRETE.
- CN-5 PLACEMENT OF ALL REINFORCING STEEL SHALL BE OBSERVED BY THE ENGINEER PRIOR TO CONCRETE PLACEMENT UNLESS APPROVED OTHERWISE.
- CN-6 ALL CONCRETE SHALL BE NORMAL WEIGHT STONE AGGREGATE CONCRETE UNLESS NOTED OTHERWISE. AGGREGATE SHALL MEET ASTM C33 REQUIREMENTS, AND SHALL BE 3/4" TO 1 1/2" NOMINAL AGGREGATE SIZE. CONCRETE ON METAL DECK IS TO UTILIZE 3/4" MAXIMUM AGGREGATE. PROVIDE ADMIXTURES AS REQUIRED TO IMPROVE WORKABILITY. THE GENERAL CONTRACTOR SHALL COORDINATE SLUMP REQUIREMENTS UNLESS NOTED OTHERWISE IN STRUCTURAL DOCUMENTS. PLASTIC CONCRETE TEMPERATURE SHALL NOT EXCEED 90 DEGREES PRIOR TO PLACEMENT. ALL CONCRETE SHALL BE CURED FOR A MINIMUM OF 7 DAYS USING MOIST CURING PROCEDURES, OR CURING COMPOUNDS WHICH WILL NOT INTERFERE WITH THE BONDING OF FINISH TILE FLOORS. NO FLYASH SHALL BE USED AT ARCHITECTURALLY EXPOSED CONCRETE WITHOUT PRIOR APPROVAL FROM ARCHITECT. THE FLYASH CONTENT SHALL NOT EXCEED THE PERCENTAGE OF CEMENTITIOUS MATERIAL SHOWN BELOW. IN ADDITION TO ABOVE THE CONCRETE SHALL MEET THE FOLLOWING REQUIREMENTS:

DESCRIPTION OF USE:	f _c	MAX W/C	FLYASH CONTENT
SLAB--ON--GRADE	3,000 PSI	N/A	25% MAX
DRILLED PIERS	3,000 PSI	N/A	50% MAX
- CN-7 PROVIDE A SET OF CYLINDERS IN ACCORDANCE WITH ASTM C 31 TO BE TAKEN BY AN INDEPENDENT TESTING LAB AT THE FREQUENCY SPECIFIED IN ACI 318 AND THE GOVERNING BUILDING CODE WITH LOCAL AMENDMENTS. COMPRESSION TEST RESULTS SHALL BE REPORTED TO THE ENGINEER WITHIN 24 HOURS.
- CN-8 NO SUBSEQUENT CONSTRUCTION WILL BE ALLOWED UNTIL CONCRETE HAS REACHED 75% OF DESIGN STRENGTH.
- CN-9 PORTLAND CEMENT SHALL CONFORM TO ASTM - C150, TYPE I/II.
- CN-10 NO WELDING OF REINFORCING BARS OR TORCHING TO BEND REINFORCING BARS SHALL BE ALLOWED WITHOUT THE SPECIFIC APPROVAL OF THE STRUCTURAL ENGINEER.
- CN-11 CONCRETE COVER SHOULD BE AS FOLLOWS:
 - A. FOOTINGS AND OTHER PRINCIPAL STRUCTURAL MEMBERS IN WHICH CONCRETE IS CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH - 3 INCHES.
 - B. WHERE CONCRETE SURFACES, AFTER REMOVAL OF FORMS, ARE EXPOSED TO WEATHER OR EARTH:
 - * BARS 3/4" AND LARGER IN DIAMETER.....2 INCHES
 - * BARS SMALLER THAN 5/8" IN DIAMETER.....1 1/2 INCHES
 - C. WHERE SURFACES ARE NOT DIRECTLY EXPOSED TO WEATHER OR EARTH:
 - * SLAB ON GRADE (FROM TOP OF SLAB).....1 1/2 INCHES
 - * SLABS, WALLS, JOISTS
 - No. 14 AND No. 18 BARS.....1 1/2 INCHES
 - No. 11 BARS AND SMALLER.....3/4 INCHES
 - * BEAMS, COLUMNS
 - PRIMARY REINF., TIES, STIRRUPS, SPIRALS.....1 1/2 INCHES
- CN-12 MECHANICAL AND ELECTRICAL CONDUIT CAN NOT BE PLACED IN BEAMS PARALLEL TO BEAM REINFORCING. PROVIDE A MINIMUM OF 1 1/2" CLEAR BETWEEN CONDUIT AND PARALLEL REINFORCING. DO NOT "BUNDLE" CONDUITS. CONDUITS SHALL BE PLACED IN THE MIDDLE ONE THIRD OF THE SLAB THICKNESS OR BEAM DEPTH.
- CN-13 SET AND BUILD INTO FORM WORK ANCHORAGE DEVICES AND OTHER EMBEDDED ITEMS REQUIRED FOR OTHER WORK THAT IS ATTACHED TO OR SUPPORTED BY CAST-IN-PLACE CONCRETE. REBAR PROJECTING FROM CONCRETE SHALL BE SECURED IN PLACE PRIOR TO PLACING CONCRETE.

SPECIAL INSPECTIONS

SPECIAL INSPECTION NOTES:

- SP-1 SPECIAL INSPECTION WORK IS NOT INCLUDED IN THE STRUCTURAL ENGINEER'S SCOPE OF SERVICES. THE OWNER WILL ENGAGE A TESTING AGENCY TO CONDUCT SPECIAL TESTS AND INSPECTIONS REQUIRED BY AUTHORITIES HAVING JURISDICTION AS THE RESPONSIBILITY OF THE OWNER. ALL INSPECTION REPORTS SHALL BE COPIED TO THE STRUCTURAL ENGINEER, AND A FINAL LETTER OF COMPLIANCE SHALL BE PROVIDED BY THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE (TYPICALLY ARCHITECT) TO THE OWNER OR BUILDING AUTHORITY.

SPECIAL INSPECTION SHALL INCLUDE:

 - o SITE PREPARATION
 - o PIER FOUNDATION
 - o CONCRETE
 - o WOOD (NOT REQUIRED)
 - o WELDING OF STRUCTURAL STEEL (NOT REQUIRED)
 - o STEEL ELEMENTS OF COMPOSITE CONSTRUCTION (NOT REQUIRED)
 - o BOLTING OF STRUCTURAL STEEL (NOT REQUIRED)
 - o STEEL CONSTRUCTION OTHER THAN STRUCTURAL STEEL (NOT REQUIRED)
 - o MASONRY I (NOT REQUIRED)
 - o MASONRY II (NOT REQUIRED)
- SP-2 INSPECTOR QUALIFICATIONS: QUALIFICATIONS LISTED IN THE TESTING & INSPECTION REQUIREMENTS TABLES ARE RECOMMENDATIONS OF THE LOCAL MEMBERS OF THE TEXAS COUNCIL OF ENGINEERING LABORATORIES. IT IS ALSO RECOMMENDED THAT THE SPECIAL INSPECTORS SHOULD BE EMPLOYED BY AN AGENCY ACCREDITED BY ANY NATIONALLY RECOGNIZED ACCREDITING BODY SUCH AS ASHTO, A2LA, NVLAP, ICC ETC.
- SP-3 DEFINITIONS:
 - ACI - AMERICAN CONCRETE INSTITUTE
 - ADSC-IAFD - ADSC: THE INTERNATIONAL ASSOCIATION OF FOUNDATION DRILLING
 - AISC - AMERICAN INSTITUTE OF STEEL CONSTRUCTION
 - ASNT - AMERICAN SOCIETY FOR NONDESTRUCTIVE TESTING
 - ASTM - AMERICAN SOCIETY FOR TESTING MATERIALS
 - AWS - AMERICAN WELDING SOCIETY
 - CWI - CERTIFIED WELDING INSPECTOR
 - CRSI - CONCRETE REINFORCING STEEL INSTITUTE
 - IBC - INTERNATIONAL BUILDING CODE
 - PCI - PRECAST/PRESTRESSED CONCRETE INSTITUTE
 - PTI - POST-TENSIONING INSTITUTE
- SP-4 TESTING AND INSPECTION DIRECTED BY ASTM E329 GUIDELINES WHERE NOTED * ON THE TESTING & INSPECTION REQUIREMENTS TABLES.
- SP-5 THE SPECIAL INSPECTOR CANNOT BE AN EMPLOYEE OF THE CONTRACTOR.
- SP-6 WHERE STRUCTURAL MEMBERS AND ASSEMBLIES ARE SHOP FABRICATED, THE SPECIAL INSPECTOR SHALL VERIFY THAT THE FABRICATOR MAINTAINS DETAILED FABRICATION AND QUALITY CONTROL PROCEDURES THAT PROVIDE A BASIS FOR INSPECTION CONTROL OF THE WORKMANSHIP AND THE FABRICATOR'S ABILITY TO CONFORM TO THE CONSTRUCTION DOCUMENTS AND REFERENCED STANDARDS, UNLESS THE FABRICATOR IS REGISTERED AND APPROVED TO PERFORM SUCH WORK WITHOUT SPECIAL INSPECTION. EXCEPTION: SPECIAL INSPECTIONS SHALL NOT BE REQUIRED WHERE THE WORK IS PERFORMED ON THE PREMISES OF A FABRICATOR THAT IS ENROLLED IN A NATIONALLY ACCEPTED INSPECTIONS PROGRAM ACCEPTABLE TO THE REGISTERED DESIGN PROFESSIONAL IN CHARGE. AT THE COMPLETION OF FABRICATION, THE APPROVED FABRICATOR SHALL SUBMIT A CERTIFICATE OF COMPLIANCE TO THE BUILDING OFFICIAL UPON REQUEST AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE STATING THAT THE WORK WAS PERFORMED IN ACCORDANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS.

TESTING AND INSPECTION REQUIREMENTS FOR PIER FOUNDATION CONSTRUCTION (INCLUDING SPECIAL INSPECTIONS)			
Required Verification and Inspection	Frequency of Verification and Inspection	IBC Section and Reference Standard	Inspector Qualifications
PIER FOUNDATION CONSTRUCTION		IBC 1705.8	
1. Observe drilling operations and maintain complete and accurate records for each element.	Continuous	Geotechnical Report; Drilled pier notes on construction documents and specification section 02466	Graduate Engineer
2. Verify placement locations and plumbness, confirm element diameters, bell diameters (if applicable), lengths, embedment into bedrock (if applicable) and adequate end-bearing strata capacity. Record concrete or grout volumes.	Continuous	Drilled pier found. notes and associated details on construction documents and specification section 02466	*Qualifications based on ASTM E329 & ASTM C1077
3. For concrete elements, perform additional inspections in accordance with section 1705.3.	---	IBC 1705.3; concrete and concrete reinforcement notes on construction documents and specification section 03300	*Qualifications based on ASTM E329 & ASTM C1077

TESTING AND INSPECTION REQUIREMENTS FOR SITE PREPARATION FOR SOIL SUPPORTED FOUNDATIONS (INCLUDING SPECIAL INSPECTIONS)			
Required Verification and Inspection	Frequency of Verification and Inspection	IBC Section and Reference Standard	Inspector Qualifications
SITE PREPARATION FOR SOIL SUPPORTED FOUNDATIONS		IBC 1705.6	
1. Verify materials below shallow foundations are adequate to achieve the design bearing capacity.	Periodic		*Qualifications based on ASTM D3740
2. Verify excavations are extended to proper depth and have reached proper material.	Periodic		
3. Perform classification and testing of compacted fill materials.	Periodic		
4. Verify use of proper materials, densities and lift thicknesses during placement and compaction of compacted fill.	Continuous	Geotechnical Report; Site Preparation for soil supported foundation notes on construction documents	
5. Prior to placement of compacted fill, observe subgrade and verify that site has been prepared properly.	Periodic		
6. Chemical Injection: Quality controlled testing and evaluation prior and subsequent to injection shall be performed by the Geotechnical Engineer to determine the effectiveness of the chemical injection process. The Geotechnical Engineer or his representative shall monitor the injection process to verify area coverage, injection depth and to review and monitor the swell test results.	Periodic		

TESTING AND INSPECTION REQUIREMENTS FOR CONCRETE CONSTRUCTION (INCLUDING SPECIAL INSPECTIONS)			
Required Verification and Inspection	Frequency of Verification and Inspection	IBC Section and Reference Standard	Inspector Qualifications
CONCRETE CONSTRUCTION		IBC 1705.3	
1. Inspection of reinforcing steel, including prestressing tendons and placement.	Periodic	IBC 1910.4; ACI 318: 3.5, 7.1-7.7; Concrete and Concrete Reinforcement Notes on construction documents and Specification Section 03300	*Qualifications based on ASTM E329
2. Inspection of reinforcing steel welding in accordance with IBC Table 1705.2.2, Item 2b.	Continuous	AWS D1.4; ACI 318: 3.5.2; Concrete and Concrete Reinforcement Notes on construction documents and Specification Section 03300	CWI or Associate CWI
3. Inspection of anchors cast in concrete prior to and during placement of concrete where allowable loads have been increased or where strength design is used.	Periodic	IBC 1908.5, 1909.1; ACI 318: 8.1.3, 21.2.8; Specification Section 03300	Technician trained in field of work and has at least one year of experience
4. Inspection of mechanical anchors installed in hardened concrete members.	Periodic	IBC 1909.1; ACI 318: 3.8.6, 8.1.3, 21.2.8; Specification Section 03300	Technician trained in field of work and has at least one year of experience
5. Inspection of adhesive anchors installed in hardened concrete. Special Inspector must be certified by ACI/CRSI "Adhesive Anchor Installer". A report must be submitted to the licensed design professional and building official documenting, stating how anchor was installed and the Manufacturer's Printed Installation Instructions per ACI 318-11 (D.9.2.2 and D.9.2.4)	Continuous	IBC 1909.1; ACI 318: Appendix D; Post-Installed Concrete/Masonry Anchor Notes on construction documents	Technician trained in field of work and has at least one year of experience
6. Verifying use of required design mix.	Periodic	IBC 1904.2, 1910.2 and 1910.3; ACI 318: Ch. 4, 5.2-5.4 Concrete and Concrete Reinforcement Notes on construction documents and Specification Section 03300	*Qualifications based on ASTM C1077
7. At the time fresh concrete is sampled to fabricate specimens for strength tests, perform slump and air content tests and determine the temperature of the concrete.	Continuous	IBC 1910.10; ASTM C 172, C31; ACI 318: 5.6, 5.8; Concrete and Concrete Reinforcement Notes on construction documents and Project Specification Section 03300	*Qualifications based on ASTM C1077
8. Inspection of concrete and shotcrete placement for proper application techniques.	N/A	IBC 1910.6, 1910.7, 1910.8; ACI 318: 5.9, 5.10; Project specification Section 03300	*Qualifications based on ASTM C1077
9. Inspection for maintenance of specified curing temperature and techniques.	Periodic	IBC 1910.9; ACI 318: 5.11-5.13; Concrete and Concrete Reinforcement Notes on construction documents and Project Specification Section 03300	*Qualifications based on ASTM C1077
10. Inspection of prestressed concrete:			
a. Application of prestressing forces.	N/A	ACI 318: 18.20, 18.18.4; Post-Tensioned Notes on construction documents and project specifications	*Qualifications based on ASTM C1077
b. Grouting of bonded prestressing tendons in the seismic-force-resisting system.	N/A		
11. Erection of precast concrete members.	N/A	ACI 318: CH. 16; Structural Notes on construction documents and Project Specification Section 03300	
12. Verification of in-situ concrete strength, prior to stressing of tendons in post tensioned concrete and prior to removal of shores and forms from beams and structural slabs.	N/A	ACI 318: 6.2; Post-Tensioned Notes on construction documents and project specifications	*Qualifications based on ASTM C1077
13. Inspect formwork for shape, location and dimensions of the concrete member being formed.	Periodic	ACI 318: 6.1.1; Details on construction documents and Project Specification Section 03300	

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 These Contract Drawings Can Not Be Copied, Reproduced, or Reproduced Without Written Consent From Alpha Consulting Engineers Inc.
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 PLOT SCALE: 1"=1'
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Alpha Consulting Engineers F-1010



Scott S. Tak
4/08/14



915 S. St. Mary's Street
San Antonio, Texas 78209
210.299.1500 fax 299.1622

PROJECT: CITY OF SAN ANTONIO - 2012-2017 BOND PROGRAM
RAINTREE PARK
 6860 RAIN TREE PATH
 SAN ANTONIO, TEXAS
 STRUCTURAL NOTES & SPECIAL INSPECTION NOTES
 SHEET TITLE

PROJECT NO. 1301A1

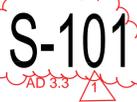
PRELIMINARY, NOT FOR CONSTRUCTION

ISSUED FOR CONSTRUCTION
04/08/14

REVISIONS

AD 3.3 - 4/14/14

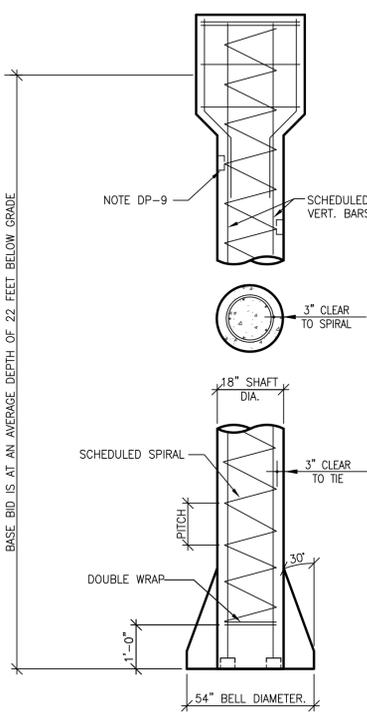
SHEET NO.



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 PLOT SCALE: 1/2" = 1'-0"
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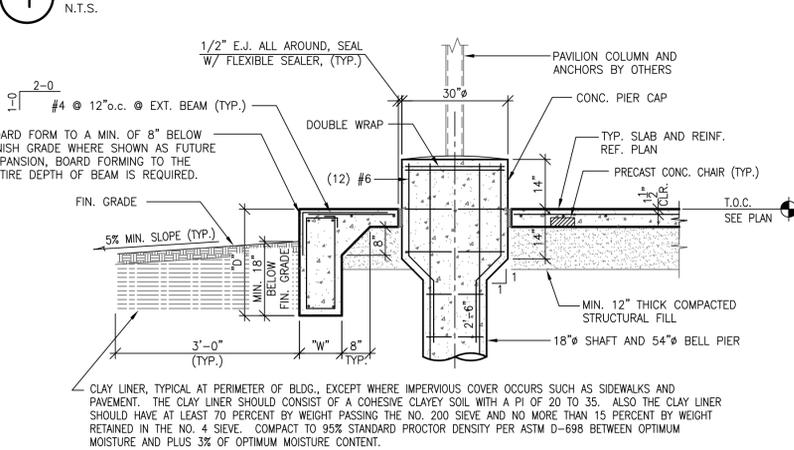
DRILLED PIER NOTES

- DP-1 THE FOUNDATION PIER DESIGN IS BASED ON THE GEOTECHNICAL ENGINEERING STUDY PREPARED BY ARIAS & ASSOCIATES, PROJECT NO. 2013-644, DATED APRIL 01, 2014.
- DP-2 ALL PIERS SHALL BE INSPECTED BY A GEOTECHNICAL ENGINEER OR BY HIS REPRESENTATIVE PRIOR TO PLACING REINFORCING STEEL AND CONCRETE IN ORDER TO ASSURE THAT THE BEARING SURFACES ARE CONSISTENT WITH DESIGN RECOMMENDATIONS.
- DP-3 PROVIDE INSPECTING ENGINEER WITH AN ELECTRIC LIGHT AND PLUMB-BOB TO OBSERVE ALL PIER EXCAVATIONS.
- DP-4 ALL PIER EXCAVATIONS SHALL BE FREE OF WATER PRIOR TO PLACING CONCRETE.
- DP-5 PIER HOLES SHALL NOT BE LEFT OPEN OVERNIGHT (NO EXCEPTIONS). PIERS SHALL BE POURED THE SAME DAY THEY ARE DRILLED.
- DP-6 PROVIDE STEEL CASING AS REQUIRED, TO PREVENT EXCAVATION SLOUGHING AND/OR SUBSURFACE WATER SEEPAGE. STEEL CASING MAY BE REMOVED DURING CONCRETE PLACEMENT SEQUENCE PROVIDING THERE IS ENOUGH CONCRETE HEAD TO PREVENT SLOUGHING SOIL FROM PENETRATING INTO THE PIER AREA.
- DP-7 ANY CONSTRUCTION JOINT IN THE PIER SHAFT MUST OCCUR AT LEAST 6 INCHES ABOVE GRADE ELEVATION.
- DP-8 CONCRETE PLACEMENT SHALL BE MADE WITH A TREMIE WITH AT LEAST A 6 FOOT HOSE OR METAL SNOOT.
- DP-9 CENTER CAGE IN HOLE WITH 3 CONC. SPACER BLOCKS EVERY 8 FT. SUPPORT CAGE ON 3 CONC. SEAT BLOCKS. DO NOT RAISE CAGE OFF DRILLED PIER BOTTOM.
- DP-10 MACHINE CLEAN BOTTOM OF REAM.
- DP-11 PROVIDE UNIT PRICING FOR PIERS REQUIRING TEMPORARY STEEL CASING. REFER TO PROJECT SPECIFICATIONS FOR UNIT PRICING AND CASING PROCEDURE.
- DP-12 HIGH TORQUE, HIGH POWER DRILLING EQUIPMENT AND ROCK AUGERS WILL BE REQUIRED.
- DP-13 BEARING PRESSURE: 15 KSF
- DP-14 ALLOWABLE SKIN FRICTION:
 - 5' TO 10' BELOW GRADE : 750 PSF
 - 10' TO 15' BELOW GRADE : 1,000 PSF
 - 15' TO 25' BELOW GRADE : 1,500 PSF



DRILLED PIER SCHEDULE		
DIAM.	VERT. BARS	SPIRAL
18"	(6) #6	3/8 @ 12" PITCH
		SEE PLAN

1 TYPICAL DRILLED PIER DETAIL AND NOTES

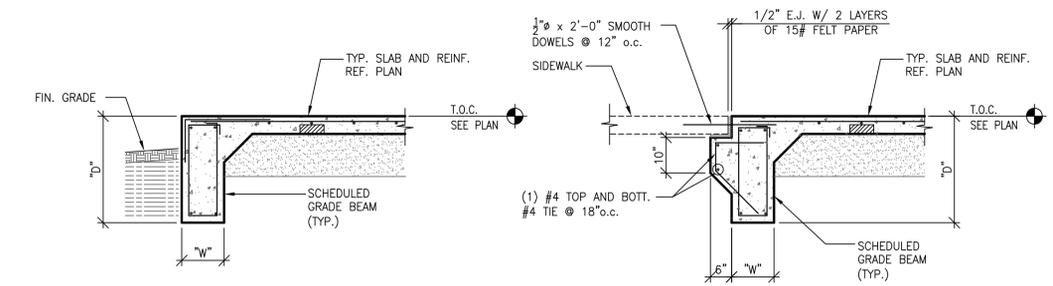


2 TYP. SECTION AT CONC. PIER

SCALE : 1/2" = 1'-0"

3 TYP. INTERIOR BEAM SECTION

SCALE : 1/2" = 1'-0"

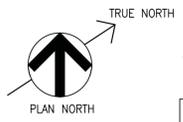
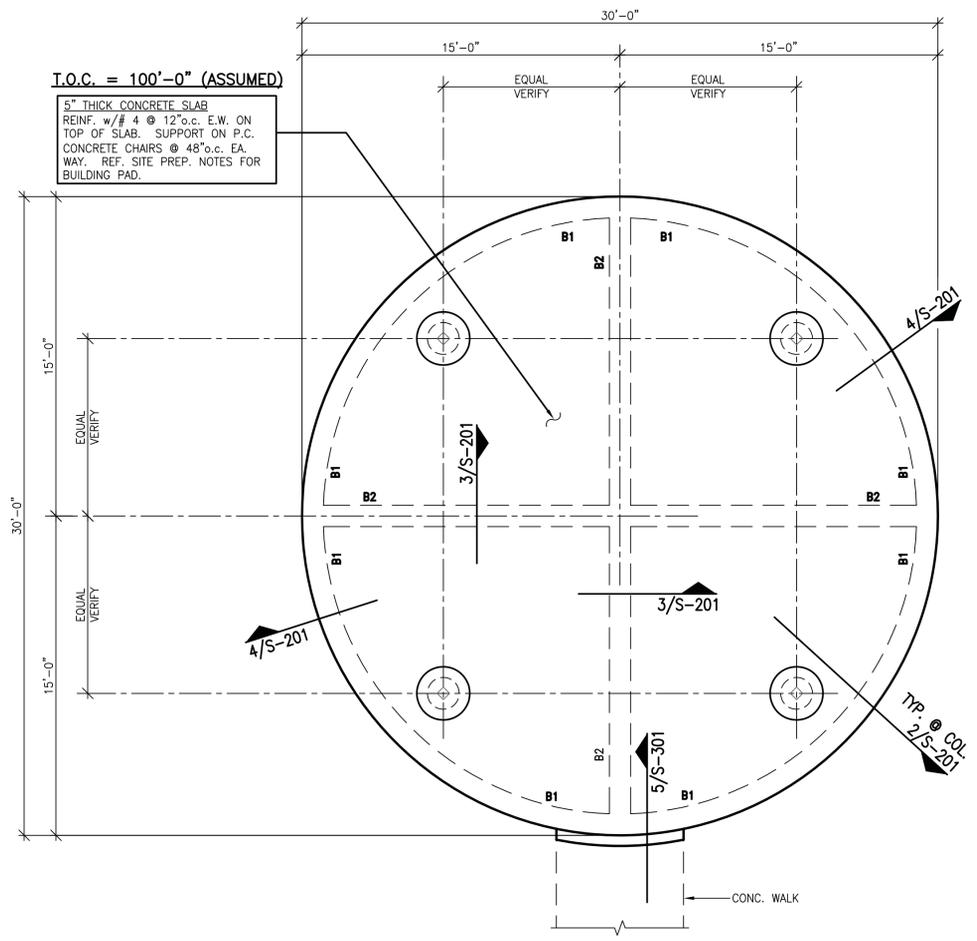


4 TYP. EXTERIOR SECTION

SCALE : 1/2" = 1'-0"

5 SECTION

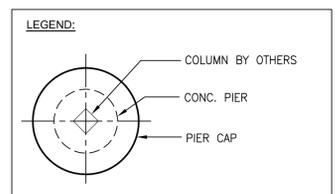
SCALE : 1/2" = 1'-0"



FOUNDATION FRAMING PLAN - PAVILION

SCALE : 1/4" = 1'-0"

- FOUNDATION PLAN NOTES:**
- REF. 1/S-201 FOR TYPICAL DRILLED PIER DETAIL.



CONC. GRADE BEAM SCHEDULE

CONCRETE	REINFORCING		REMARKS
	MK	"W" "D" MIN.	
B1	12	30	2 - #7 TOP AND BOTTOM, #3 STIRRUPS @ 18" o.c.
B2	12	30	2 - #7 TOP AND BOTTOM, #3 STIRRUPS @ 18" o.c.

- NOTE :**
- EXTERIOR SCHEDULED CONCRETE BEAM DEPTHS ARE MINIMUM. INCREASE EXTERIOR DEPTH TO MAINTAIN A MINIMUM OF 18" BELOW FINAL EXTERIOR GRADE.
 - ADD CONTINUOUS #4 @ 12" o.c. HORIZONTAL BARS @ EA. FACE AND #3 STIRRUPS @ 12" o.c. WHEN BEAM DEPTH BECOMES DEEPER THAN 42" DUE TO LOWER FINAL GRADE (TYP).
 - PROVIDE 40 BAR DIAMETER LAPS AT ALL SPLICES IN CONTINUOUS TOP AND BOTTOM BARS AT GRADE BEAMS.



fisher check architects

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CITY OF SAN ANTONIO - 2012-2017 BOND PROGRAM

RAINTREE PARK
6860 RRAINTREE PATH
SAN ANTONIO, TEXAS

FOUNDATION FRAMING PLAN, SECTIONS AND DETAILS

SHEET TITLE

PROJECT NO. 1301A1

PRELIMINARY, NOT FOR CONSTRUCTION

ISSUED FOR CONSTRUCTION 04/08/14

REVISIONS
1 AD 3.4 - 4/14/14

SHEET NO.

S-201

**CITY OF SAN ANTONIO
TRANSPORATION & CAPITAL IMPROVEMENTS
CONTRACT SERVICES DIVISION**

RECEIPT OF ADDENDUM NUMBER(S) 3 IS HEREBY ACKNOWLEDGED FOR PLANS AND SPECIFICATIONS FOR **RAINTREE PARK IMPROVEMENTS** FOR WHICH BIDS WILL BE OPENED ON APRIL 22, 2014.

THIS ACKNOWLEDGEMENT MUST BE SIGNED AND RETURNED WITH THE BID PACKAGE.

Company Name: _____

Address: _____

City/State/Zip Code: _____

Date: _____

Signature

Print Name/Title