





Revisions	By



**Job Title:**  
FOUNDERS PARK  
BACKSTOP NETTING STRUCTURE  
PROJECT NUMBER: 00003045/F-000516388  
CONTRACT #170  
COLUMBIA, SOUTH CAROLINA



**Drawing Title:**  
SECTION & DETAILS

**Scale:** AS SHOWN

**Job Number:** 16-171

**Designed By:** KWT

**Drawn By:** TAP

**Checked By:** KWT

**Date:** JUNE 24, 2016

**Sheet Number:**  
**S200**  
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# CABLE ROPE NOTES:

1. ALL CABLE SHALL BE V12 SYNTHETIC VECTRAN ROPE CABLE AS FOLLOWS:
  - PRIMARY CABLE SHALL BE BLACK IN COLOR AND 3/4 INCH DIAMETER WITH AN AVERAGE BREAKING STRENGTH OF 45,000 LBS. ALL COMPONENTS FORMING THE CONNECTIONS TO THE ANCHORING POINTS SHALL BE RATED FOR AN ALLOWABLE LOAD OF 10,000 LBS.
  - VERTICAL PRIMARY CABLES SHALL BE BLACK IN COLOR AND 1/2 INCH DIAMETER WITH AN AVERAGE BREAKING STRENGTH OF 35,000 LBS. ALL COMPONENTS FORMING THE CONNECTIONS TO THE ANCHORING POINTS SHALL BE RATED FOR AN ALLOWABLE LOAD OF 10,000 LBS.
  - RADIAL OR DIAGONAL CABLES SHALL BE BLACK IN COLOR AND 1/2 INCH DIAMETER WITH AN AVERAGE BREAKING STRENGTH OF 35,000 LBS. ALL COMPONENTS FORMING THE CONNECTIONS TO THE STADIUM STRUCTURE SHALL BE RATED FOR AN ALLOWABLE LOAD OF 10,000 LBS.
  - SECONDARY NETTING CABLES SHALL BE BLACK IN COLOR AND 3/8 INCH DIAMETER WITH AN AVERAGE BREAKING STRENGTH OF 15,000 LBS. ALL COMPONENTS FORMING THE CONNECTIONS TO THE STADIUM STRUCTURE SHALL BE RATED FOR AN ALLOWABLE LOAD OF 5,000 LBS.
2. THE CONTRACTOR SHALL PROVIDE SECONDARY NETTING CABLES ALONG THE BOTTOM OF THE NETTING TO SECURE THE NETTING TO THE EXISTING ANCHORS, FOR AREAS WHERE NEW NETTING OCCURS. ANCHORS MAY BE INSTALLED AT 15 FOOT INTERVALS WITH AN EYELET. STEEL EYELET ANCHORS SHALL BE EPOXY ANCHORED INTO THE EXISTING CONCRETE AT MINIMUM OF 4 INCHES.
3. NETTING SHALL MATCH EXISTING OR APPROVED BY OWNER.
4. CABLE ROPE MATERIAL SHALL NOT ELONGATE MORE THAN 1% AT 30% BREAKING STRENGTH.
5. THE CONTRACTOR SHALL TAKE FIELD MEASUREMENTS FOR THE PROPER CUT LENGTHS FOR CABLE ROPES ONCE THE ANCHOR POLES ARE IN PLACE.

## FOUNDATION:

1. SEE PLANS AND DETAILS FOR NOTES CONCERNING FOUNDATION DEPTHS AND BEDROCK CONSIDERATIONS.
2. DEEP EXCAVATIONS MAY REQUIRE DEWATERING.
3. THE SIDES OF FOUNDATION CONCRETE (FOOTINGS, PILE CAPS, CAISSON CAPS, ETC.) MAY BE EARTH FORMED PROVIDED THE EXCAVATION CAN BE SAFELY KEPT VERTICAL, CLEAN AND STABLE. OTHERWISE, FORMS MUST BE USED. REFER TO GEOTECHNICAL ENGINEER FOR ADDITIONAL INFORMATION AS REQUIRED.
4. KYZER AND TIMMERMAN ARE NOT RESPONSIBLE FOR TRASH, DEBRIS, SOFT AREAS FOR ANY OTHER ANOMALY WHICH MAY FOUND UNDER THE BUILDING SITE WHETHER PLACED THERE OR NATURALLY OCCURRING.

# CONCRETE:

1. ALL CONCRETE AND REINFORCING BARS SHALL BE INSTALLED ACCORDING TO STANDARDS SET FORTH BY THE LATEST EDITION OF ACI-308.
2. REINFORCEMENT SHALL BE HELD IN PLACE DURING CONCRETE PLACEMENT. IF REQUIRED, ADDITIONAL BARS MAY BE PROVIDED BY THE CONTRACTOR TO FURNISH SUPPORT FOR ALL BARS.
3. 28 DAY MINIMUM CONCRETE COMPRESSIVE STRENGTH SHALL BE AS FOLLOWS:
 

MICRO PILES	5000 PSI
PIERS	5000 PSI
DRILLED PIERS	5000 PSI
PILE CAPS	5000 PSI
ALL OTHER CONCRETE	5000 PSI
- NO CALCIUM CHLORIDE SHALL BE USED IN MIX.
4. THE CONTRACTOR SHALL TAKE ADDITIONAL PRECAUTIONS WHEN CONCRETE IS TO BE PLACED AND CURED DURING COLD OR HOT WEATHER. THE CONTRACTOR SHALL FOLLOW THE RECOMMENDATIONS PRESCRIBED BY AMERICAN CONCRETE INSTITUTE FOR COLD OR HOT WEATHER CONSTRUCTION.
5. NO ADDITIONAL WATER SHALL BE ADDED TO THE CONCRETE ABOVE THAT PRESCRIBED IN THE MIX DESIGN UNLESS APPROVED BY THE ARCHITECT OR STRUCTURAL ENGINEER.
6. REINFORCING STEEL SHALL BE GRADE 60, MINIMUM LAP IN CONCRETE SHALL BE IN ACCORDANCE IV ACI-308.
7. THE GENERAL CONTRACTOR SHALL SUBMIT REBAR SHOP DRAWINGS SHOWING NUMBER, SIZE AND LOCATION, INCLUDING BAR LISTS AND DIAGRAMS, TO THE STRUCTURAL ENGINEER FOR APPROVAL.
8. REBAR MECHANICAL COUPLERS ARE PERMITTED PROVIDED THE COUPLER IS CAPABLE OF DEVELOPING 125% OF THE YIELD STRENGTH OF THE BAR. ALL MECHANICAL COUPLERS SHALL BE 100% APPROVED.
9. A QUALIFIED TESTING LABORATORY SHALL BE RETAINED TO COLLECT CYLINDERS AND PERFORM THE NECESSARY CONCRETE TESTS. A MINIMUM OF FOUR CYLINDERS SHALL BE TAKEN FOR EVERY 50 CUBIC YARDS (OR FRACTION THEREOF) OF EACH CONCRETE TYPE/STRENGTH SUPPLIED. THE CONCRETE CYLINDERS SHALL BE TAKEN AFTER WATER AND ADMIXTURES (IF ANY) ARE ADDED TO THE MIX. IT IS RECOMMENDED THAT ONE CYLINDER SHALL BE TESTED AT 1 DAYS, TWO AT 28 DAYS AND HOLD THE FINAL CYLINDER IN RESERVE. IT IS RECOMMENDED THAT TEST REPORTS SHALL BE SENT DIRECTLY TO THE GENERAL CONTRACTOR, OWNER, ARCHITECT AND STRUCTURAL ENGINEER. ANY CYLINDER BREAKS (INCLUDING 1 AND 14 DAY BREAKS) SHALL BE FLAGGED AND BROUGHT TO THE ATTENTION OF THE APPROPRIATE DESIGN PROFESSIONAL.
10. REPAIR AND PATCH DEFECTIVE AREAS IMMEDIATELY AFTER REMOVAL OF FORMS.
11. AT APPLICATIONS REQUIRING NEW CONCRETE TO BE PLACED AGAINST EXISTING CONCRETE, THE EXISTING CONCRETE SHALL BE PROPERLY REINFORCED, 1" HIGH TO 1" LOW, AND A SUITABLE BONDING AGENT APPLIED PRIOR TO PLACING NEW CONCRETE. THE SURFACE PREPARATION AND BONDING AGENT IS IN ADDITION TO THE ANY DOWELS AS SPECIFIED IN THE DETAILS.

# STRUCTURAL AND MISCELLANEOUS STEEL:

1. UNLESS NOTED OTHERWISE, STRUCTURAL STEEL GRADES FOR ALL STEEL SHALL BE AS INDICATED BELOW:
 

A. ANCHOR BOLTS	----- A307
B. CONNECTION BOLTS	----- A325 OR A440
C. PLATES AND PLAT BARS	----- A36
D. STEEL PIPE	----- A53, TYPE E OR S, GRADE B, Fy=35ksi
2. THE CONTRACTOR SHALL SUBMIT DETAILED STRUCTURAL STEEL SHOP DRAWINGS.
3. A SUITABLE NON-SHRINK GROUT (7000 PSI) SHALL BE USED UNDER BASE PLATES REQUIRING GROUT. GROUT SHALL BE PLACED UNDER THE BASE PLATE ONCE THE STEEL COLUMN IS IN PLACE & PLUMB. THE CONTRACTOR SHALL USE LEVELING PLATES AND LEVELING NUTS BELOW THE BASE PLATES TO PLUMB STEEL COLUMNS.
4. ALL EXPOSED METALS (MOISTURE AND CORROSIVE ENVIRONMENT) INCLUDING MECHANICAL UNIT CURBS, Tie DOWN STRAPS, EXPOSED FRAMING, ASSOCIATED HARDWARE, ETC. SHALL BE GALVANIZED.

Revisions	By
Revision	



Job Title: **FOUNDERS PARK BACKSTOP NETTING STRUCTURE**  
PROJECT NUMBER: 00003045/F-M00516388  
CONTRACT #170  
SOUTH CAROLINA  
COLUMBIA.



Drawing Title: **GENERAL NOTES AND SPECIAL INSPECTIONS**

Scale: AS SHOWN

Job Number: 16-171

Designed By: KWT

Drawn By: TAP

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Sheet Number: **\$400**  
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STATEMENT OF SPECIAL INSPECTIONS (PER CHAPTER 17, 2012 IBC)									
SPECIAL INSPECTION COMPANY / COORDINATOR - TO BE RETAINED BY OWNER									
BUILDING SYSTEM OR COMPONENT	MATERIAL SUBMITTAL	TESTING			INSPECTION (PER IBC)			QUALITY ASSURANCE (PER IBC)	
		REQUIREMENTS	FREQUENCY	AGENCY	MONITORING	FREQUENCY	AGENCY	PART OF WIND	PART OF SEISMIC
SOILS (COMPACTED FILL)	N/A	1. TEST IN PLACE DRY DENSITY OF COMPACTED FILL.	1. AS APPROVED GEOTECHNICAL ENGINEER.	TESTING LAB TO BE APPROVED BY SPECIAL INSPECTION COORDINATOR & BUILDING OFFICIAL.	AS EXCAVATION AND FILL PLACEMENT BEGINS, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE WITH GEOTECHNICAL REPORT: 1. MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY AS SPECIFIED IN SOILS REPORT. 2. EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL. 3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS. 4. USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL. 5. PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE AND VERIFY THAT DATE HAS BEEN PREPARED PROPERLY.	1. PERIODIC 2. PERIODIC 3. PERIODIC 4. CONTINUOUS 5. PERIODIC	INSPECTION AGENCY TO BE APPROVED BY SPECIAL INSPECTION COORDINATOR & BUILDING OFFICIAL.	1. COLUMNS AND SHEARWALLS ACCORDANCE WITH APPROVED SOILS REPORT PRIOR TO PLACEMENT OF FILL.	1. COLUMNS AND SHEARWALLS ACCORDANCE WITH APPROVED SOILS REPORT PRIOR TO PLACEMENT OF FILL.
CONCRETE FOUNDATIONS	1. SUBMIT CONCRETE MIX DESIGN. 2. SUBMIT FOUNDATION REINFORCEMENT SHOP DRAWINGS. 3. VERIFY PROPER CONCRETE STRENGTH.	1. TEST CONCRETE STRENGTH.	1. (1) SET OF CYLINDERS FOR EACH VERTICAL LIFT OR EACH 50 YARDS OF CONCRETE.	TESTING LAB TO BE APPROVED BY SPECIAL INSPECTION COORDINATOR & BUILDING OFFICIAL.	AS CONCRETE AND REINFORCING STEEL CONSTRUCTION BEGINS, THE FOLLOWING SHALL BE INSPECTED TO ENSURE COMPLIANCE: 1. VERIFY REINFORCING SIZE, QUANTITY & PLACEMENT 2. ANCHORS CAST IN CONCRETE 3. ANCHORS POST INSTALLED IN HARDENED CONCRETE 4. VERIFY THE USE OF REQUIRED DESIGN MIX 5. AT THE TIME FRESH CONCRETE IS SAMPLED TO FURNISH SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TEST, AND DETERMINE THE TEMPERATURE OF CONCRETE. 6. CONCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES 7. INSPECT WORKMANSHIP FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	1. PERIODIC 2. PERIODIC 3. PERIODIC 4. CONTINUOUS 5. CONTINUOUS 6. CONTINUOUS 7. PERIODIC	INSPECTION AGENCY TO BE APPROVED BY SPECIAL INSPECTION COORDINATOR & BUILDING OFFICIAL.	1. SPREAD FOOTINGS AT BEARING WALLS AND SHEARWALL.	1. SPREAD FOOTINGS AT BEARING WALLS AND SHEARWALL.
MICROPILES	1. SUBMIT GROUT MIX DESIGN. 2. SUBMIT PILE REINFORCEMENT DESIGN & INSTALLATION METHOD.	1. CONDUCT PILE LOAD TEST. 2. TEST GROUT STRENGTH.	1. PILE LOAD TEST FOR EACH PILE TYPE. 2. (1) SET OF GROUT CUBES FOR EVERY PILE.	TESTING LAB TO BE APPROVED BY SPECIAL INSPECTION COORDINATOR & BUILDING OFFICIAL PER IBC.	1. EACH PILE WILL BE MONITORED FOR: A. PILE DEPTH B. GROUT PRESSURE C. GROUT VOLUME D. REINFORCEMENT PLACEMENT	1. EACH PILE	INSPECTION AGENCY TO BE APPROVED BY SPECIAL INSPECTION COORDINATOR & BUILDING OFFICIAL PER IBC.	1. UPLIFT PILE UNDER SHEARWALLS ARE PART OF THE WIND AND SEISMIC LATERAL SYSTEM.	1. UPLIFT PILE UNDER SHEARWALLS ARE PART OF THE WIND AND SEISMIC LATERAL SYSTEM.
STRUCTURAL STEEL	1. SUBMIT MANUFACTURER'S CERTIFIED MILL TEST REPORTS FOR STRUCTURAL STEEL.	N/A	N/A	N/A	1. INSPECT STEEL FRAME JOINT DETAILS FOR COMPLIANCE WITH CONSTRUCTION DOCUMENTS.	1. PERIODIC	INSPECTION AGENCY TO BE APPROVED BY SPECIAL INSPECTION COORDINATOR & BUILDING OFFICIAL PER IBC.	1. FLOOR AND ROOF SYSTEM FRAMING	1. FLOOR AND ROOF SYSTEM FRAMING
STRUCTURAL STEEL WELDING	1. SUBMIT MANUFACTURER'S CERTIFICATE OF COMPLIANCE FOR WELD FILLER MATERIAL.	N/A	N/A	N/A	VERIFY WELDING IS IN COMPLIANCE WITH AWS D1.1: 1. COMPLETE AND PARTIAL PENETRATION GROOVE WELDS. 2. MULTIPASS FILLET WELDS 3. SINGLE-PASS FILLET WELDS > 5/16" 4. SINGLE-PASS FILLET WELDS < 5/16" 5. FLOOR AND DECK WELDS	1. CONTINUOUS 2. CONTINUOUS 3. CONTINUOUS 4. PERIODIC 5. PERIODIC	INSPECTION AGENCY TO BE APPROVED BY SPECIAL INSPECTION COORDINATOR & BUILDING OFFICIAL PER IBC.	1. FLOOR AND ROOF SYSTEM WELDING	1. FLOOR AND ROOF SYSTEM WELDING
NOTE: ALL TESTING, INSPECTION & RELATED REPORTS SHALL BE SENT TO THE SPECIAL INSPECTION COORDINATOR & THE OWNER. ANY DEFICIENCIES SHALL BE CLEARLY NOTED & BROUGHT TO THE ATTENTION OF THE SPECIAL INSPECTION COORDINATOR BEFORE THE END OF THE INSPECTOR'S SHIFT.									

NOTE: ALL TESTING, INSPECTION & RELATED REPORTS SHALL BE SENT TO THE SPECIAL INSPECTION COORDINATOR & THE OWNER. ANY DEFICIENCIES SHALL BE CLEARLY NOTED & BROUGHT TO THE ATTENTION OF THE SPECIAL INSPECTION COORDINATOR BEFORE THE END OF THE INSPECTOR'S SHIFT.

## DEFINITIONS:

- SPECIAL INSPECTOR: PER IBC "A QUALIFIED PERSON EMPLOYED OR RETAINED BY AN APPROVED AGENCY AND APPROVED BY THE BUILDING OFFICIAL AS HAVING THE COMPETENCE NECESSARY TO INSPECT A PARTICULAR TYPE OF CONSTRUCTION REQUIRING SPECIAL INSPECTION".
- PERIODIC SPECIAL INSPECTION: PER IBC "SPECIAL INSPECTION BY THE SPECIAL INSPECTOR WHO IS INTERMITTENTLY PRESENT WHERE THE WORK TO BE INSPECTED HAS BEEN OR IS BEING PERFORMED".
- CONTINUOUS SPECIAL INSPECTION: PER IBC "SPECIAL INSPECTION BY THE SPECIAL INSPECTOR WHO IS PRESENT WHEN AND WHERE THE WORK TO BE INSPECTED IS BEING PERFORMED; THIS IS INTENDED TO BE A CONTINUOUS INSPECTION."