



ADDENDUM #1

Owner: Leon County Date: September 13, 2011
Project: Leon County Courthouse Parking Garage Sprinklers Job #: 11-08
Addendum No. 1

This Addendum forms a part of the Contract Documents and modifies the original Project Specifications and Drawings, dated August 30, 2011 as noted below. **This addendum consists of 3 pages and 5 attachments.**

Item #	Description	# of Pages	Add to Project Manual	Revision to Project Manual	Revision to Drawings
1.	Specification 012600 Contract Modifications Delete this specification in its entirety.	N/A	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2.	Specification 012900 Payment Procedures Delete this specification section in its entirety.	N/A	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3.	Specification 011000 Summary Delete section 1.6 Access to Site, paragraph B, subsection 2 and replace with: Limits: Work area will be limited to a third of each parking area level as coordinated with the owner during the allowable construction work hours. All ramp areas will be required to be operational during normal business hours throughout construction. The ramp areas will be considered a third of each parking level and the remaining two thirds will consist of the flat parking area. Phased construction will be required for each third of each parking level. Non-ramp areas will be allowed to be closed during normal business hours while work is underway as coordinated with the owner. Traffic control around work areas will be the responsibility of the contractor. A phasing plan will be required for the pre-construction meeting prepared by the contractor.	N/A	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4.	Specification 011000 Summary Add section: 1.10 Project Schedule A. Project shall be completed in 200 days from notice to proceed to substantial completion. An additional 30 days will be allowed from substantial completion to final.	N/A	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>



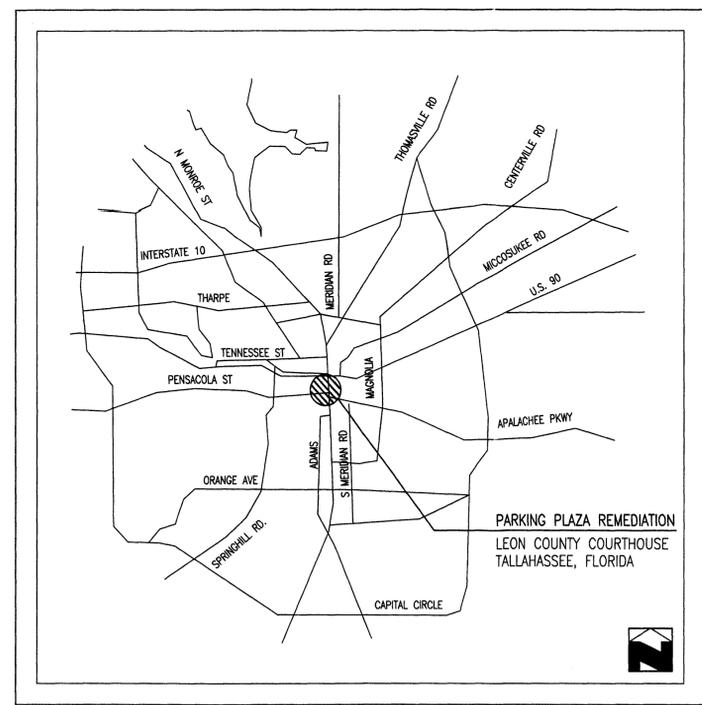
Item #	Description	# of Pages	Add to Project Manual	Revision to Project Manual	Revision to Drawings
5.	Specification 012200 Unit Prices Delete section 1.2, paragraph B, Related Requirements	N/A	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6.	Specification 013200 Construction Progress Documentation Revise "Daily Reports" to be "Monthly Reports" throughout this specification section.	N/A	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7.	Specification 211316 Dry-Pipe Sprinkler Systems Revise section 2.5 Trim and Valves, paragraph B Dry-Pipe Valves, subsection 7 Air Compressor, Basis of Design Product shall be: General Air Products Inc.; LT1220200B Motor Horsepower: 2	N/A	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
8.	Appendix A Structural Strengthening Drawings <i>(See attachment for Item# 8)</i> Add Parking Plaza Remediation Drawings to Appendix A.	7	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9.	Sheet F0.1 <i>(See attachment for Item #9)</i> Revised Air Compressor Schedule Revised Owners Limitation on Work Area, Hours and Interruptions note. Revised Electrical Legend	1	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
10.	Sheet F2.1S <i>(See attachment for Item #10)</i> Added AC-1.2 and revised electrical for AC-1.1 and AC-1.2. Revised Keynotes	1	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
11.	Sheet F2.3S <i>(See attachment for Item #11)</i> Added location of existing panel EDPA.	1	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>



Item #	Description	# of Pages	Add to Project Manual	Revision to Project Manual	Revision to Drawings
12.	Sheet F3.1 (See attachment for Item #12) Revised Detail G, equipment pad note.	1	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

PARKING PLAZA REMEDIATION LEON COUNTY COURTHOUSE

TALLAHASSEE, FLORIDA

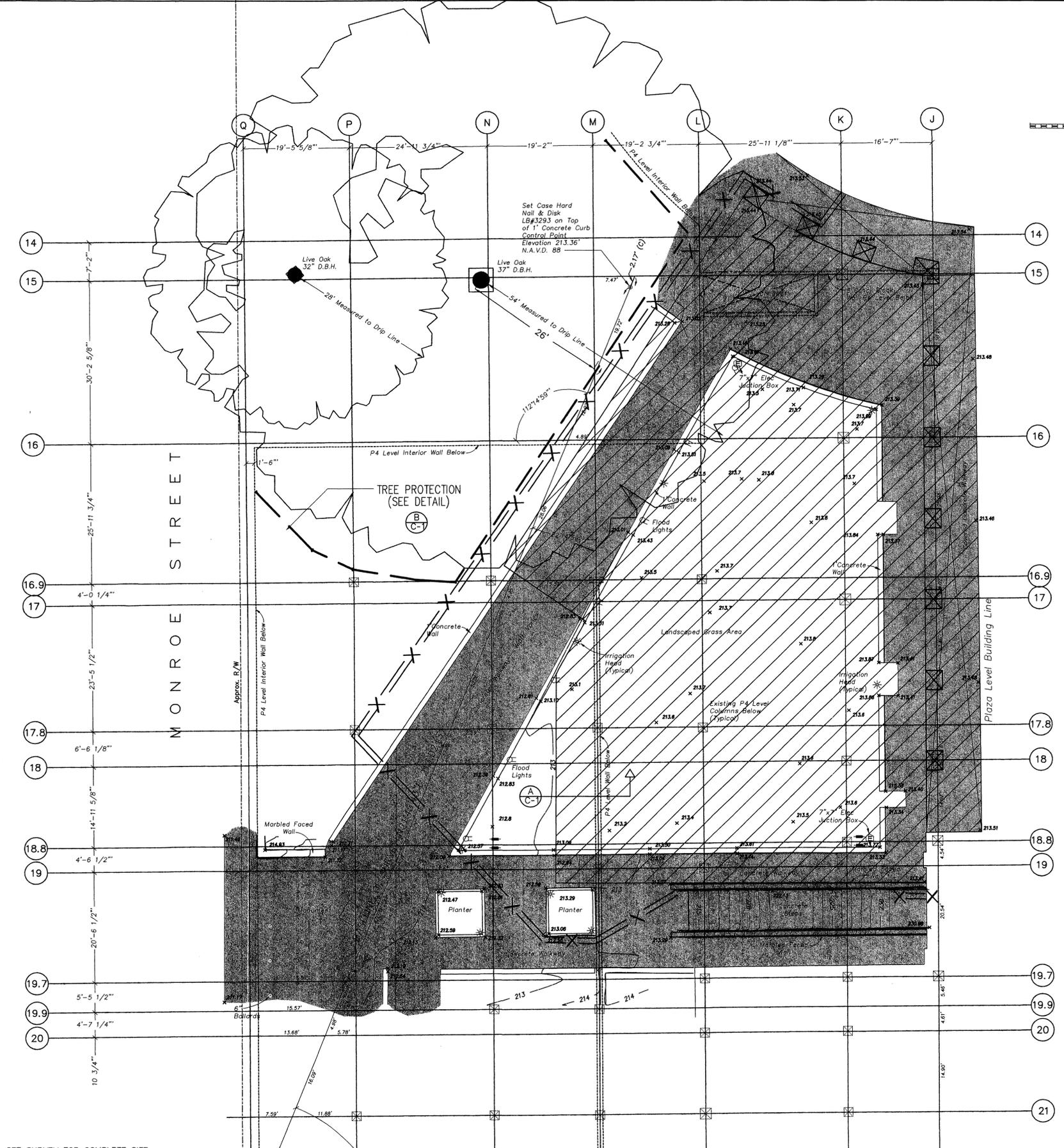


PARKING PLAZA REMEDIATION
 LEON COUNTY COURTHOUSE
 TALLAHASSEE, FLORIDA

Drawn By:
 Checked By: PM
 Date: DEC 04, 2002
 Project No.: 0122-02
 Drawing Title:
 TITLE SHEET

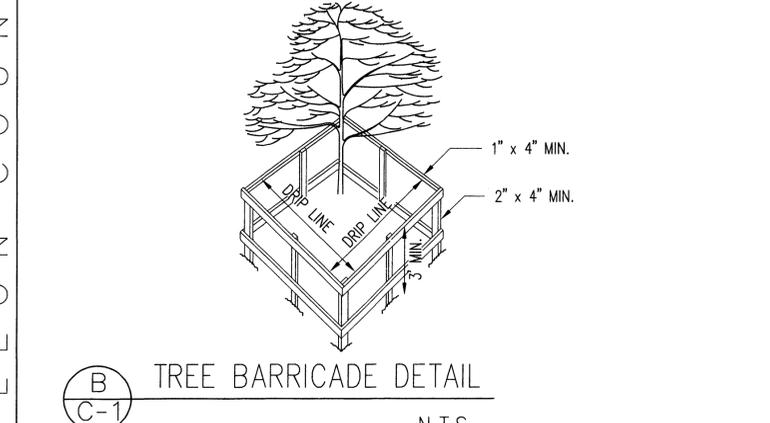
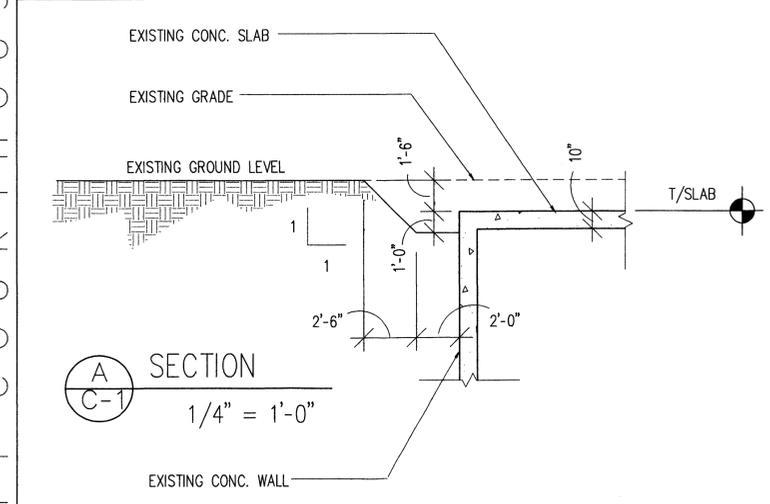
J. H. Hines
12/16/02

T-01



LEGEND

- X = X WORK ZONE FENCE (BARRICADES)
- [Hatched Box] SOIL TO BE REMOVED AND REPLACED AFTER RETROFIT
- [Cross-hatched Box] CONCRETE PAVEMENT TO BE REMOVED AND REPLACED AFTER RETROFIT.
- - - TREE PROTECTION



- ### GENERAL NOTES:
- MINIMUM COMPACTION FOR FILL SECTIONS SHALL BE 98% MODIFIED PROCTOR. IF REQUIRED, BORROWED MATERIAL IS TO BE PROVIDED BY THE CONTRACTOR AND HAVE A MINIMUM LBR VALUE OF 40.
 - THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS. THE CONTRACTOR SHALL MAINTAIN SEDIMENT CONTROL DEVICES AS NECESSARY TO PREVENT SEDIMENT FROM LEAVING THE SITE AND SHALL COMPLY WITH ALL PROVISIONS OF THE CITY OF TALLAHASSEE ENVIRONMENTAL PERMIT FOR THIS PROJECT.
 - SOIL COMPACTION TESTING WILL BE PERFORMED BY A F.D.O.T. CERTIFIED TESTING LAB AT THE EXPENSE OF THE CONTRACTOR.
 - BALED HAY BARRIERS AND SILT FENCES SHALL BE INSTALLED AT ALL INLETS AND MANHOLES IN ACCORDANCE WITH F.D.O.T. INDEX 102 AND SHALL BE MAINTAINED BY THE CONTRACTOR UNTIL ALL ADJACENT AREAS ARE STABILIZED.
 - ALL DISTURBED AREAS NOT CALLED OUT TO BE SODDED ARE TO BE SEEDED AND MULCHED EXCEPT WHERE THE SIDEWALK IS BEING REPLACED.
 - EXCAVATION BETWEEN GRID LINES K AND J TO BE PERFORMED AFTER ALL OTHER EXCAVATION.
 - DO NOT STOCK PILE ANY SOIL ON THE SITE.
 - CONTRACTOR SHALL MAINTAIN SEDIMENT EROSION CONTROL IN A MANNER TO PREVENT SEDIMENT FROM LEAVING THE SITE.
 - CONTRACTOR SHALL KEEP STREETS AND SIDEWALKS FREE FROM SEDIMENT AND DEBRIS.

SEE SURVEY FOR COMPLETE SITE INFORMATION AT SOUTHERN EDGE OF SITE.

EXCAVATION AND TREE PROTECTION PLAN

1" = 10'

Smiley
12/16/02

PARKING PLAZA REMEDIATION LEON COUNTY COURTHOUSE TALLAHASSEE, FLORIDA

Drawn By:
Checked By: PM
Date: DEC 04, 2002
Project No.: 0122-02
Drawing Title:
EXCAVATION AND TREE PROTECTION PLAN

C-1

GENERAL STRUCTURAL NOTES

GENERAL NOTES:

1. ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL BE IN ACCORDANCE WITH CONTRACT DOCUMENTS AND SPECIFICATIONS.
2. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, PRIOR TO FABRICATION OR ERECTION.
3. THE CONTRACTOR SHALL WORK STRUCTURAL DRAWINGS TOGETHER WITH EXISTING CONDITIONS TO LOCATE DEPRESSED SLABS, SLOPES, DRAINS, BOLT SETTINGS, GRADES, ETC.. ANY DISCREPANCIES SHALL BE CALLED TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH THE WORK.
4. ALL DETAILS AND SECTIONS SHOWN ON THE DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL BE CONSTRUED TO APPLY TO ANY SIMILAR SITUATION ELSEWHERE ON THE PROJECT, EXCEPT WHERE A DIFFERENT DETAIL IS SHOWN.
5. CONTRACTOR SHALL PROVIDE ADEQUATE BRACING, SHORING AND OTHER TEMPORARY SUPPORTS AS REQUIRED TO SAFELY COMPLETE THE WORK.
6. IT IS REQUIRED THAT THE CONTRACTOR VISIT THE SITE PRIOR TO CONSTRUCTION AND BECOME FAMILIAR WITH THE AREAS REQUIRING REPAIR.

DESIGN CRITERIA

1. LOCATION: TALLAHASSEE, FLORIDA
2. BUILDING CODE: FLORIDA BUILDING CODE - 2001 EDITION
3. DESIGN LOADS
LIVE LOAD (SLAB): 100 PSF

TESTING

1. CONTRACTOR SHALL PROVIDE TESTING AS DESCRIBED IN PROJECT SPECIFICATIONS.

SLAB REPAIR

1. ALL SLAB REPAIR MORTARS SHALL SECURE A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS AS FOLLOWS:
ELEVATED SLAB WORK 5000 PSI
2. ALL REINFORCING STEEL SHALL BE DEFORMED BARS CONFORMING TO ASTM A-315 GRADE 60 (Fy=60 KSI).
3. PROPERLY VIBRATE FORMS WHILE POURING OR PUMPING REPAIR MORTAR.
4. ALL SLAB REINFORCEMENT SHALL BE DETAILED, FABRICATED, LABELED, SUPPORTED AND SPACED IN FORMS AND SECURED IN PLACE IN ACCORDANCE WITH THE PROCEDURES AND REQUIREMENTS OUTLINED IN THE LATEST EDITION OF THE "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE," ACI 318 AND THE "MANUALS OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES," ACI 315 LATEST EDITION. SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO PLACEMENT.
5. ALL BAR SPLICES AND DOWELS SHALL LAP 30 BAR DIAMETERS (MIN.) UNLESS NOTED OTHERWISE.

STRUCTURAL STEEL -

1. STRUCTURAL STEEL FABRICATION AND ERECTION SHALL BE IN ACCORDANCE WITH AISC "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS," NINTH EDITION.
2. HIGH STRENGTH BOLTING SHALL BE IN ACCORDANCE WITH AISC "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS" (LATEST EDITION). BOLTS SHALL BE 3/4"Ø UNO.
3. WELDING SHALL BE IN ACCORDANCE WITH AMERICAN WELDING SOCIETY SPECIFICATION AWS A5.1 (1996).
4. ALL STRUCTURAL STEEL SHALL HAVE THE FOLLOWING MINIMUM YIELD STRENGTHS, UNLESS OTHERWISE NOTED ON THE DRAWINGS.
STRUCTURAL TUBING Fy = 46KSI
ALL OTHER Fy = 36KSI
5. HIGH STRENGTH BOLTS, NUTS AND HARDENED WASHERS SHALL CONFORM TO ASTM A325; MACHINE BOLTS AND NUTS SHALL CONFORM TO ASTM A307.
6. WELDING ELECTRODES USED FOR SHOP OR FIELD CONNECTIONS SHALL HAVE A MINIMUM ELECTRODE TENSILE STRENGTH OF 70 KSI. UNLESS NOTED OTHERWISE ON THE DRAWINGS, ELECTRODES SHALL CONFORM TO AWS A5.

STRUCTURAL SUBMITTALS

1. SUBMITTALS REQUIRED BY THE PROJECT SPECIFICATIONS AND LOCATED ELSEWHERE IN THE CONSTRUCTION DOCUMENTS, ARE REQUIRED FOR REVIEW BY THE STRUCTURAL ENGINEER OF RECORD.
2. DRAWINGS PREPARED SOLELY AS A GUIDE FOR ERECTION AND INSTALLATION AND CATALOG INFORMATION WILL NOT REQUIRE AN ENGINEER'S SEAL.
3. DRAWINGS INTRODUCING ENGINEERING INPUT AND CALCULATIONS SHALL BE SEALED BY THE ENGINEER PREPARING SUCH WORK.
4. THE REVIEW OF "STRUCTURAL SUBMITTALS" BY THE STRUCTURAL ENGINEER OF RECORD SHALL ENSURE THAT THE SUBMITTALS HAVE BEEN FURNISHED AND PREPARED BY A QUALIFIED PERSON, THAT THE PERSON UNDERSTOOD THE INTENT OF THE DESIGN AND USED THE SPECIFIED CRITERIA, AND THAT THE CONFIGURATION OF THE DESIGN IS CONSISTENT WITH THE CONSTRUCTION DOCUMENTS. NO DETAILED CHECK OF DIMENSIONS WILL BE MADE.

CARBON FIBER FABRIC WRAP

1. SIKAWRAP HEX 117C IS A HIGH MODULUS UNIDIRECTIONAL CARBON FIBER FABRIC. MATERIAL IS FIELD LAMINATED USING SIKADUR HEX 300 OR SIKADUR HEX 306 EPOXY TO FORM A CARBON FIBER REINFORCED POLYMER (CFRP) USED TO STRENGTHEN STRUCTURAL ELEMENTS.
2. SURFACE MUST BE CLEAN AND SOUND. IT MAY BE DRY OR DAMP, BUT FREE OF STANDING WATER AND FROST. REMOVE DUST, LAITANACE, GREASE, CURING COMPOUNDS, IMPREGNATIONS, WAXES, FOREIGN PARTICLES, DISINTEGRATED MATERIALS, AND OTHER BOND INHIBITING MATERIALS FROM THE SURFACE.
3. EXISTING UNEVEN SURFACES MUST BE FILLED WITH AN APPROPRIATE REPAIR MORTAR.
4. INJECT CRACKS. CRACKS GREATER THAN 0.25mm (0.010 in.) MUST BE STABILIZED USING EPOXY INJECTION METHODS.
5. THE ADHESIVE STRENGTH OF THE CONCRETE MUST BE VERIFIED AFTER SURFACE PREPARATION BY RANDOM PULL-OFF TESTING (ACI 503R) AT THE DISCRETION OF THE ENGINEER. MINIMUM TENSILE STRENGTH 200 PSI WITH CONCRETE SUBSTRATE FAILURE.
6. RADIUS CORNERS PERPENDICULAR TO THE FIBER ORIENTATION BY GRINDING AS PER THE PROJECT SPECIFICATIONS.
7. BLAST CLEAN, SHOTBLAST OR USE OTHER APPROVED MECHANICAL MEANS TO PROVIDE AN OPEN ROUGHENED TEXTURE ON CONCRETE SURFACE.
8. CONSULT SIKADUR HEX 300/306 DATA SHEET FOR INFORMATION ON MIXING EPOXY RESIN.
9. PRIOR TO PLACING THE FABRIC, THE CONCRETE SURFACE IS PRIMED AND SEALED USING SIKADUR HEX 300 EPOXY. MATERIAL MAY BE APPLIED BY SPRAY, BRUSH OR ROLLER. SIKAWRAP HEX 103C CAN BE IMPREGNATED USING EITHER THE SIKADUR HEX 300 OR SIKADUR HEX 306 EPOXY.
10. FABRIC CAN BE CUT USING A COMMERCIAL QUALITY HEAVY DUTY SCISSOR. SINCE DULL OR WORN CUTTING IMPLEMENTS CAN DAMAGE, WEAKEN OR FRAY THE FIBER, THEIR USE SHOULD BE AVOIDED. CONSULT MSDS FOR PROPER HANDLING PROCEDURES.
11. SYSTEM IS A VAPOR BARRIER. DON'T ENCAPSULATE CONCRETE IN AREAS OF FREEZE/THAW.
12. SIKAWRAP FABRIC IS NON-REACTIVE. HOWEVER, CAUTION MUST BE USED WHEN HANDLING SINCE A FINE "CARBON DUST" MAY BE PRESENT ON THE SURFACE. GLOVES MUST THEREFORE BE WORN TO PROTECT AGAINST SKIN IRRITATION.
13. WRAP THE BEAM WITH THE SPECIFIED NUMBER OF WRAPS AS CALCULATED AND INDICATED ON THE DRAWINGS. SEQUENCE TO BE ADVISED ON DAILY WORK SHEET FOR BEAM. FOLLOW APPROVED DRAWINGS. APPLY SHEAR STRENGTHENING LAYERS ON TOP OF FLEXURAL STRENGTHENING LAYERS OR AS PER ENGINEERING DRAWINGS. THIS METHOD HELPS TO SECURE THE ENDS OF THE FLEXURAL STRENGTHENING. INSTALL FIBRANCHORS AS PER SPECIFICATIONS IF REQUIRED. FABRIC SAMPLING PROCEDURE AS REQUIRED BY SPECIFICATIONS.
14. USING A ROLLER, PRIME THE AREA TO BE WRAPPED WITH ONE COAT OF SIKADUR HEX EPOXY. WAIT AS PER SPECIFICATIONS BEFORE APPLYING FABRIC WRAP FOR VERTICAL AND OVERHEAD APPLICATIONS. APPLY THE LAYERS OF FABRIC WRAP INDIVIDUALLY, WAITING AS PER SPEC'S BEFORE APPLYING SUBSEQUENT LAYERS. APPLY UNIFORM AND SMOOTH PRESSURE EITHER WITH A STIFF SPATULA OR ROLLER REMOVING AIR BUBBLES. APPLY FINAL COAT OF EPOXY TOP COAT.

CFRP-CARBON FIBER REINFORCING PLASTIC STRIPS

1. ALL SUBSTRATES MUST BE CLEAN, SOUND, AND FREE OF SURFACE MOISTURE. REMOVE DUST, LAITANCE, GREASE, CURING COMPOUNDS, WAXES, IMPREGNATIONS, FOREIGN PARTICLES AND OTHER BOND INHIBITING MATERIALS FROM THE SURFACE BY BLASTCLEANING OR EQUIVALENT MECHANICAL MEANS.
2. EXISTING UNEVEN SURFACES MUST BE FILLED WITH AN APPROPRIATE REPAIR MORTAR (E.G., SIKADUR 30 WITH THE ADDITION OF 1 PART SAND TO MAKE AN EPOXY MORTAR). THE ADHESIVE STRENGTH OF THE CONCRETE MUST BE VERIFIED AFTER PREPARATION BY RANDOM PULL-OFF TESTING (ACI 503R) AT THE DIRECTION OF THE ENGINEER. MINIMUM TENSILE STRENGTH, 200 PSI WITH CONCRETE SUBSTRATE FAILURE.
3. STORE AND CONDITION THE SPECIFIED PRODUCTS AS RECOMMENDED BY THE MANUFACTURER.
4. PRECAUTIONS SHOULD BE TAKEN TO AVOID DAMAGE TO ANY SURFACE NEAR THE WORK ZONE DUE TO MIXING AND HANDLING OF THE CARBODUR SYSTEM.
5. THE AMBIENT TEMPERATURE AND TEMPERATURE OF THE EPOXY COMPONENTS SHALL BE AS SPECIFIED AS PER THE MANUFACTURER AT THE TIME OF MIXING.
6. MIX ONLY THAT QUANTITY OF EPOXY WHICH CAN BE USED WITHIN ITS POT LIFE.
7. APPLY THE MIXED EPOXY RESIN ONTO THE CONCRETE WITH A TROWEL OR SPATULA TO A NOMINAL THICKNESS 1/16" (1.5 mm)
8. CLEAN THE CFRP LAMINATE (ROUGHENED SIDE) WITH AN APPROPRIATE CLEANER (E.G., MEK). DRY CFRP LAMINATE WITH A CLEAN RAG. STRIPS MUST BE CLEANED OUTSIDE OF BUILDING OR IN A VENTED AREA PRIOR TO PLACEMENT.
9. APPLY THE MIXED EPOXY RESIN ONTO THE CFRP LAMINATE WITH A "ROOF-SHAPED" SPATULA TO A NOMINAL THICKNESS OF 1/16" (1.5 mm). DISPOSE OF EXCESS EPOXY - DO NOT RE-USE.
10. THE EXTERNAL REINFORCEMENT MUST NOT BE DISTURBED FOR A MINIMUM OF 24 HOURS. THE EPOXY WILL HAVE REACHED ITS DESIGN STRENGTH AFTER 7 DAYS.

SEQUENCE OF REPAIR

1. PRIOR TO PERFORMING ANY WORK CONTRACTOR IS TO PROVIDE A SITE SURVEY OF THE AREA AFFECTED BY THE WORK. REMOVE OVERLYING SOIL, CONCRETE AND WATERPROOFING FROM TOP SIDE OF SLAB TO ALLOW PLACEMENT OF CFRP. VERIFY EXISTING CONDITION OF CONCRETE.
2. IF DAMAGED CONCRETE IS PRESENT, EXISTING REINFORCING TO BE SANDBLASTED OR MECHANICALLY CLEANED PRIOR TO HIGH-PRESSURE WASHING WITH CLEAN WATER.
3. REMOVE DAMAGED CONCRETE AND PATCH AREAS WITH SPECIFIED REPAIR PRODUCTS. APPLY ARMATEC 110 BY SIKA CORP. TO CONCRETE AND REINFORCING PRIOR TO PLACING PATCH MATERIAL, SPLICE NEW REINFORCING AS REQUIRED. WHEN REPAIRING UNDERSIDE OF SLAB RELOCATE OR ADD NEW PIPE HANGERS AS REQUIRED TO SUPPORT PIPES NEAR DAMAGED AREAS.
4. PRIOR TO PLACING CARBO-DUR CFRP, CRACKS TO BE REPAIRED IN AREAS WHERE CFRP IS PLACED USING GRAVITY FEED AND/OR INJECTION METHODS. CRACKS IN BEAMS TO BE REPAIRED USING PRESSURE INJECTION METHOD WITH SIKA DUR 52 EPOXY INJECTION ADHESIVE.
5. APPLY CARBO-DUR CFRP REINFORCING STRIPS AND WRAP AT REQUIRED LOCATIONS. APPROPRIATE TESTS, AS REQUIRED BY THE MANUFACTURER, ARE TO BE PERFORMED. MECHANICALLY CLEAN AREAS WITH "NEEDLE SCALER" OR APPROVED METHOD AND BLOW OFF WITH AIR WHERE CARBO-DUR IS TO BE APPLIED.
6. AFTER PLACEMENT OF CARBO-DUR STRIPS AND CFRP WRAP, APPLY THE SPECIFIED WATERPROOFING MEMBRANE SYSTEM.
7. SEE SPECIFICATIONS FOR ADDITIONAL TEST REQUIREMENTS.

NOTE

IF AREAS OF CORROSION OR DAMAGE ARE FOUND DURING THE RETROFIT PROCESS THAT MAY BE DETRIMENTAL TO ELEMENTS OF THE STRUCTURE NOTIFY, THE ENGINEER IMMEDIATELY.

PARKING PLAZA REMEDIATION
 LEON COUNTY COURTHOUSE
 TALLAHASSEE, FLORIDA

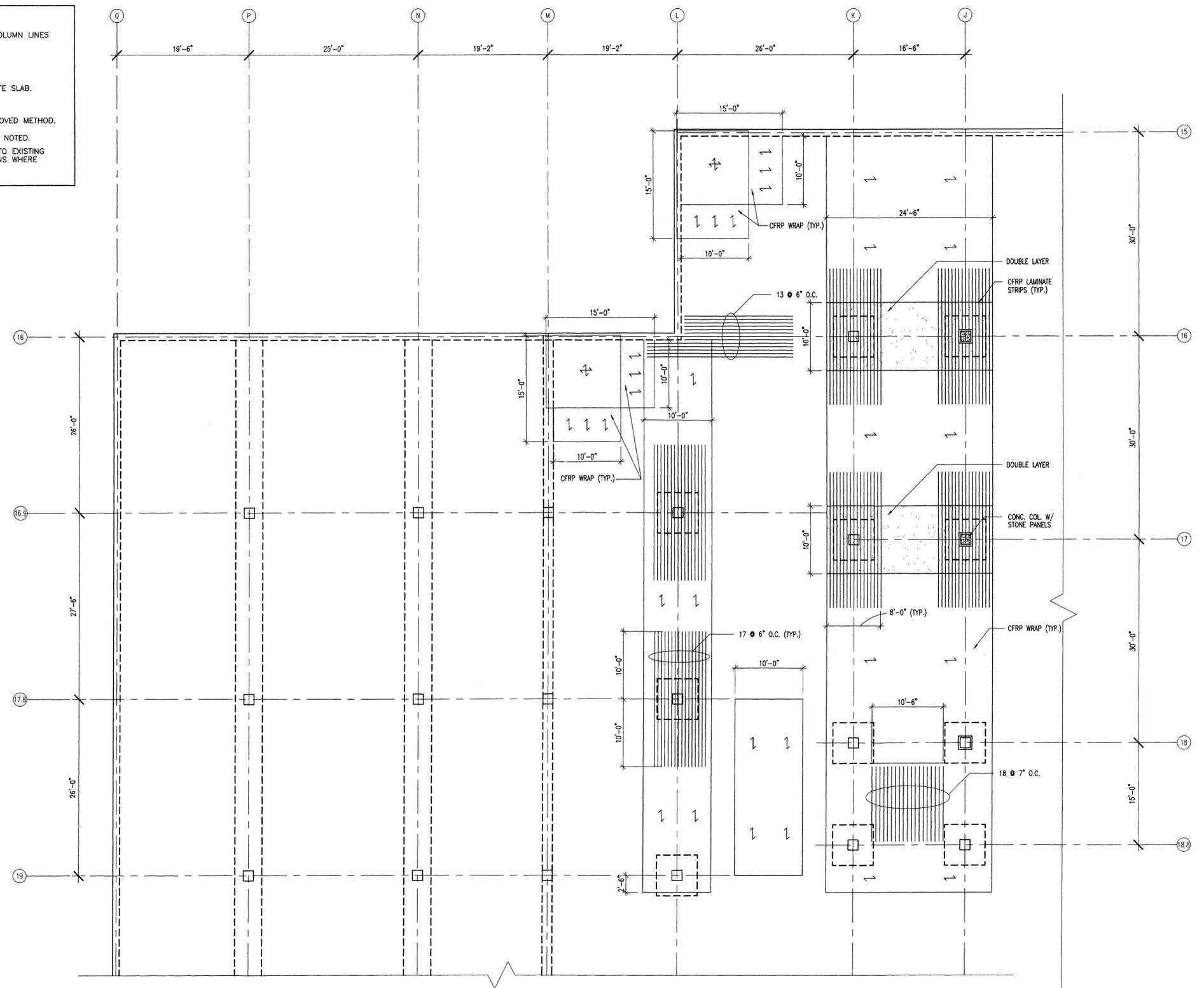
Drawn By:
 Checked By: PM
 Date: DEC 04, 2002
 Project No.: 0122-02
 Drawing Title:
 GENERAL STRUCTURAL NOTES

SHEET INDEX	
T-1	TITLE SHEET
C-1	EXCAVATION AND TREE PROTECTION PLAN
C-2	SITE LAYOUT PLAN
S-1	GENERAL STRUCTURAL NOTES
S-2	PLAN AT TOP SIDE
S-3	PLAN AT BOTTOM SIDE
S-4	SECTIONS & DETAILS

Jim...
12/16/02

S-1

- NOTES:**
1. VERIFY EXISTING CONDITIONS AND DIMENSIONS. DIMENSIONS BETWEEN COLUMN LINES TO BE VERIFIED.
 2. CONTRACTOR TO VERIFY LOCATION OF EXISTING PIPES AND HANGERS. EQUIPMENT AND/OR SUPPLY LINES & PIPE MUST NOT BE DISTURBED WITHOUT APPROVAL FROM OWNER.
 3. SEE PREVIOUS SHEETS FOR REPAIR/RETROFIT PROCEDURES OF CONCRETE SLAB.
 4. SEE SHEET S-4 FOR REPAIR AND PATCH DETAILS.
 5. PREPARE SURFACES TO RECEIVE CFRP USING NEEDLE SCALER OR APPROVED METHOD.
 6. TERMINATE CFRP STRIPS 12" FROM FACE OF WALLS UNLESS OTHERWISE NOTED.
 7. SOME ADJUSTMENT OF CFRP STRIP LOCATIONS MAY BE REQUIRED DUE TO EXISTING SLAB PENETRATIONS AND PIPE HANGERS. NOTIFY ENGINEER OF LOCATIONS WHERE ADJUSTMENT IS NECESSARY.



PLAN AT TOP SIDE
 SCALE: 1/8" = 1'-0"

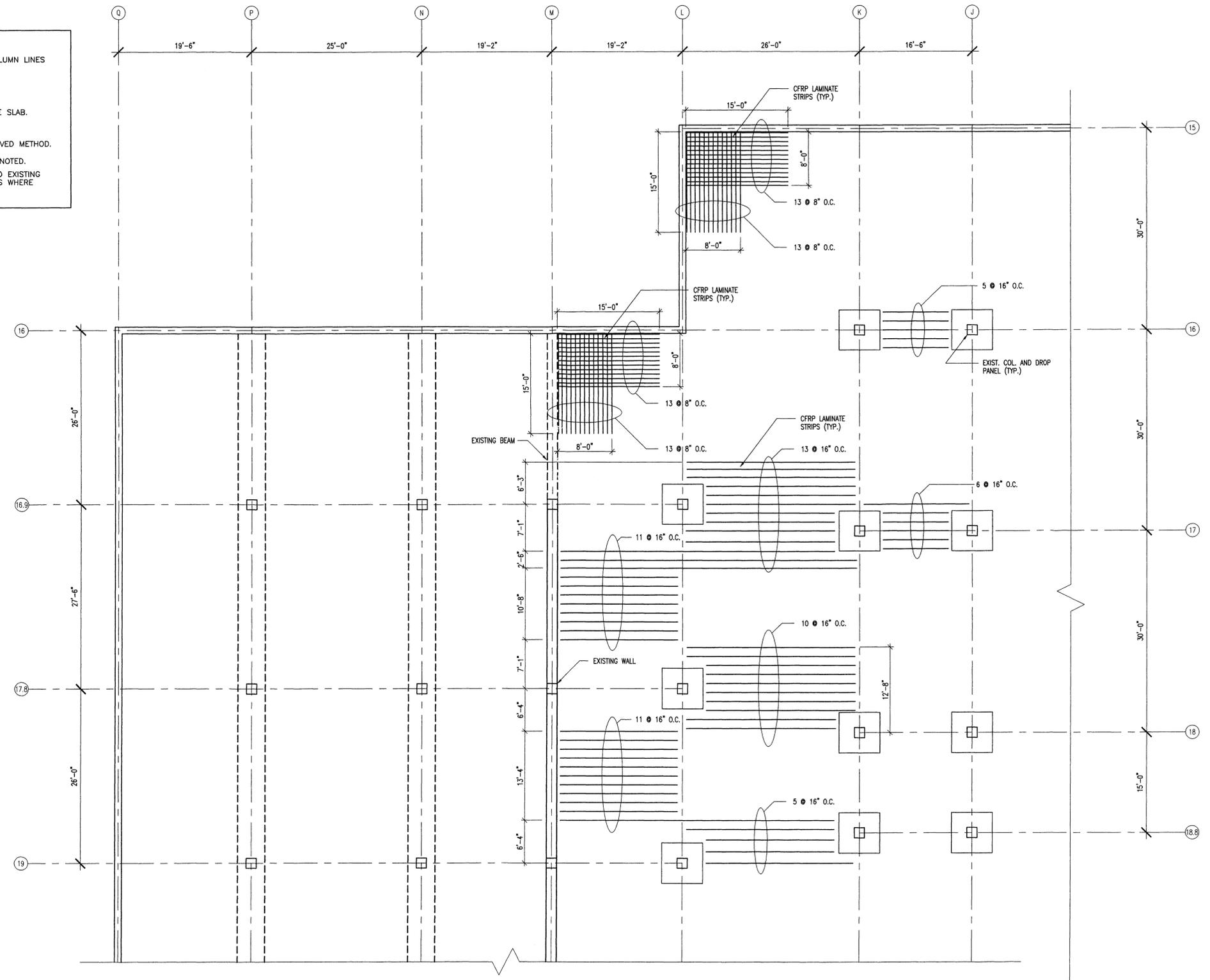
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 TALLAHASSEE, FLORIDA

Drawn By:
 Checked By: PM
 Date: DEC 04, 2002
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 Drawing Title:
 PLAN AT TOP SIDE

S-2

H. H. H. H.
 12/16/02

- NOTES:**
1. VERIFY EXISTING CONDITIONS AND DIMENSIONS. DIMENSIONS BETWEEN COLUMN LINES TO BE VERIFIED.
 2. CONTRACTOR TO VERIFY LOCATION OF EXISTING, PIPES AND HANGERS. EQUIPMENT AND/OR SUPPLY LINES & PIPE MUST NOT BE DISTURBED WITHOUT APPROVAL FROM OWNER.
 3. SEE PREVIOUS SHEETS FOR REPAIR/RETROFIT PROCEDURES OF CONCRETE SLAB.
 4. SEE SHEET S-4 FOR REPAIR AND PATCH DETAILS.
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 7. SOME ADJUSTMENT OF CFRP STRIP LOCATIONS MAY BE REQUIRED DUE TO EXISTING SLAB PENETRATIONS AND PIPE HANGERS. NOTIFY ENGINEER OF LOCATIONS WHERE ADJUSTMENT IS NECESSARY.



PLAN AT BOTTOM SIDE
SCALE: 1/8" = 1'-0"

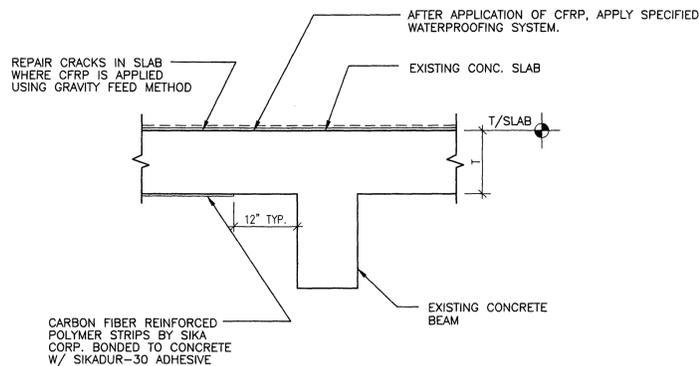
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LEON COUNTY COURTHOUSE
TALLAHASSEE, FLORIDA

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PLAN AT BOTTOM SIDE

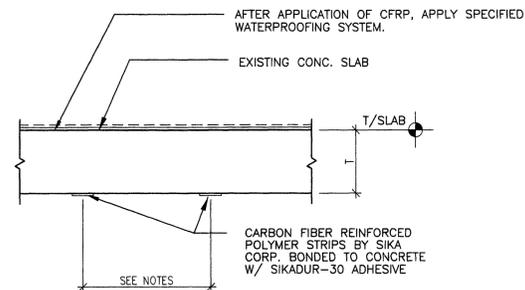
S-3

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12/16/02

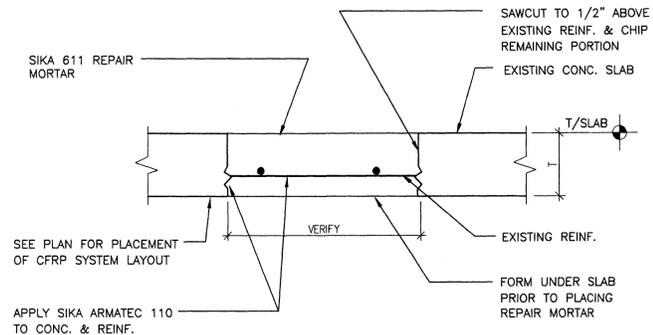
PARKING PLAZA REMEDIATION
LEON COUNTY COURTHOUSE
TALLAHASSEE, FLORIDA



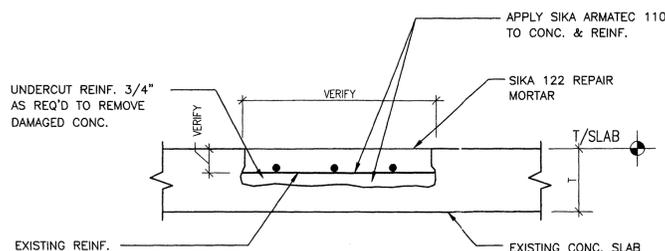
1 SECTION
S-4 1"=1'-0"



2 SECTION
S-4 1"=1'-0"

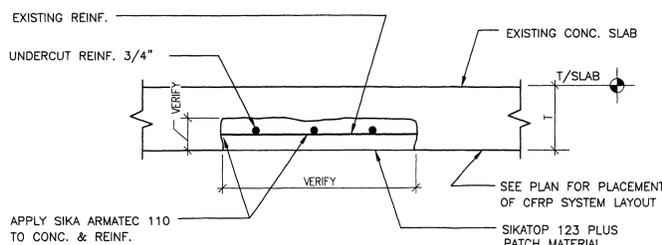


3 FULL DEPTH REPAIR
S-4 1"=1'-0"



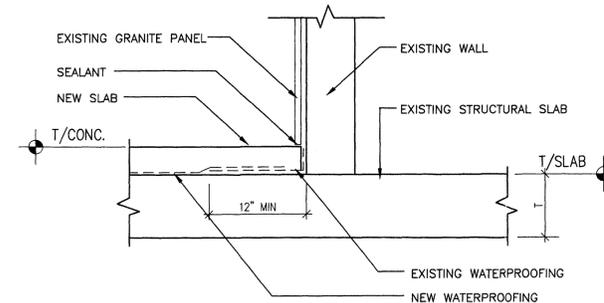
NOTE:
1. IF REMOVED CONCRETE EXTENDS > 2/3 DEPTH OF SLAB OR EXPOSES BOTTOM MAT OF REINFORCING PATCH SHOULD BE FULL DEPTH AS SHOWN IN SECTION 3.

4 PARTIAL DEPTH - TOP REPAIR
S-4 1"=1'-0"

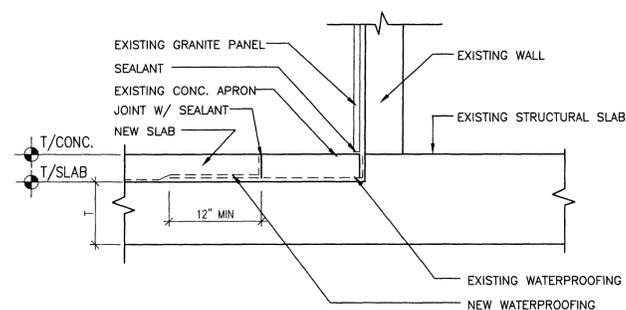


NOTE: AT BOTTOM PATCH AREAS TO RECEIVE CFRP STRIPS, PATCH MUST BE LEVEL W/ BOT. OF EXISTING SLAB.

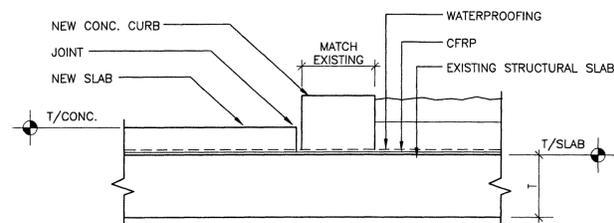
5 PARTIAL DEPTH - BOTTOM REPAIR
S-4 1"=1'-0"



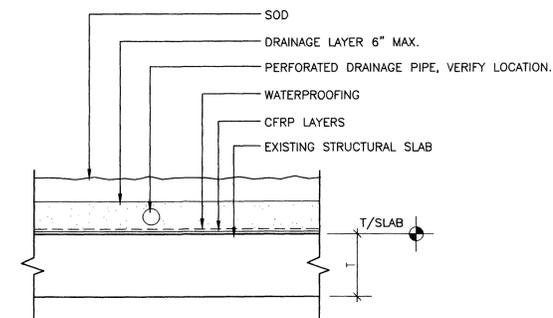
6 SECTION
S-4 1"=1'-0"



7 SECTION
S-4 1"=1'-0"



8 SECTION
S-4 1"=1'-0"



9 SECTION
S-4 1"=1'-0"

Drawn By:
Checked By: PM
Date: DEC 04, 2002
Project No.: 0122-02
Drawing Title:

SECTIONS & DETAILS

S-4

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12/10/02

AIR COMPRESSOR SCHEDULE			
DESIGNATION			AC-1 & 1.2
LOCATION			PARKING LEVEL 1 SOUTH - P101A
TANK CAPACITY		GAL.	20
NUMBER OF COMPRESSORS		NO.	1
COMPRESSOR MOTOR		HP	2
ELECTRICAL CHARACTERISTICS		V/PH	460/3
DRY PIPE SYSTEM CAPACITY		GAL.	1000
MANUFACTURER			GENERAL AIR PRODUCTS
MODEL NUMBER			LT12202008
DETAIL REFERENCE			G/F2-1

- NOTES:**
- AIR COMPRESSOR TO BE UL LISTED.
 - PROVIDE AIR COMPRESSOR WITH AN AIR MAINTENANCE DEVICE EQUIPPED WITH AN AIR PRESSURE REGULATOR - GENERAL AIR PRODUCTS, AMD-1 OR APPROVED EQUAL.

DESIGN CRITERIA

AREA	CLASSIFICATION	SYSTEM	DENSITY	TEMP.	MAX. COVERAGE	MAX. SPACING
			GPM/SF	' F	SQUARE FEET	FEET
GENERAL, EXCEPT AS LISTED BELOW	LIGHT	DRY	0.1	ORDINARY	225	15
PARKING	ORDINARY G-1	DRY	0.15	ORDINARY	130	15
EQUIPMENT ROOMS	ORDINARY G-1	DRY	0.15	INTERMEDIATE	130	15
ELECTRICAL EQUIP. ROOMS	ORDINARY G-1	DRY	0.15	INTERMEDIATE	130	15
MECHANICAL EQUIP. ROOMS	ORDINARY G-1	DRY	0.15	INTERMEDIATE	130	15
DIESEL TANK STORAGE	EXTRA G-2	DRY	0.40	INTERMEDIATE	100	12
GENERATOR ROOMS	EXTRA G-2	DRY	0.40	HIGH	100	12

LIGHT (NO HATCH) LIGHT HAZARD	ORD-1 ORDINARY HAZARD, GROUP 1	EXT-2 EXTRA HAZARD, GROUP 2
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ROOMS OR SPACES NOT SPECIFICALLY DESIGNATED AS TO HAZARD CLASSIFICATION SHALL BE CONSIDERED LIGHT HAZARD.

DELEGATED DESIGN CALCULATION REQUIREMENTS

- THESE FIRE PROTECTION SYSTEM ENGINEERING DOCUMENTS REPRESENT THE DESIGN INTENT FOR THE FIRE SPRINKLER SYSTEM. THE DELEGATED ENGINEER IS RESPONSIBLE FOR PROVIDING A FIRE SPRINKLER SYSTEM FOR THE ENTIRE BUILDING APPROVED BY NFPA AND THE AUTHORITY HAVING JURISDICTION. PROVIDE DELEGATED DESIGN DOCUMENTS AND HYDRAULIC CALCULATIONS, SUBMITTED THROUGH THE ENGINEER. SIZE PIPING TO PROVIDE AN EXCESS RESIDUAL PRESSURE OF 10 PSI AT THE HYDRAULICALLY MOST DEMANDING POINT AT SYSTEM DESIGN FLOW.
- DELEGATED ENGINEER SHALL PROVIDE SIGNED AND SEALED FIRE PROTECTION SYSTEM LAYOUT DOCUMENTS TO THE ENGINEER OF RECORD AND AUTHORITY HAVING JURISDICTION INCLUDING THE FOLLOWING AS APPLICABLE, BUT NOT LIMITED TO: 1) SPRINKLER SYSTEM WORKING PLANS, INCLUDING SPRINKLER SYSTEM LAYOUT, NODE IDENTIFICATION AND NODE SPOT ELEVATIONS, 2) WATER SUPPLY INFORMATION, 3) SPRINKLER SYSTEM DESIGN AND HYDRAULIC CALCULATIONS, INCLUDING DETAILED WORKSHEETS AND GRAPH OF WATER SUPPLY CURVE AND SPRINKLER SYSTEM DEMAND, 4) SPRINKLER HEAD DATA/CUT SHEETS WITH SPECIFIC SYSTEM COMPONENTS IDENTIFIED, AND 5) ADDITIONAL SPRINKLER SYSTEM SPECIFICATIONS AS REQUIRED IN COMPLIANCE WITH NFPA 13-2002, STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS, CHAPTER 8, PLANS AND CALCULATIONS, PRIOR TO AUTOMATIC SPRINKLER SYSTEMS INSTALLATION.

APPLICABLE CODES

NFPA 1	UNIFORM FIRE CODE
NFPA 13	INSTALLATION OF SPRINKLER SYSTEMS
NFPA 25	WATER BASED FIRE PROTECTION SYSTEMS
NFPA 70	NATIONAL ELECTRICAL CODE
NFPA 72	NATIONAL FIRE ALARM CODE
NFPA 101	LIFE SAFETY CODE
NFPA 1963	SCREW THREADS AND GASKETS FOR FIRE HOSE CONNECTIONS
FBC 2007	FLORIDA BUILDING CODE 2007 W/2008 & 2009 AMENDMENTS
FAC 61C-5	FLORIDA ELEVATOR SAFETY CODE
FAC 61G15-32	RESPONSIBILITY RULES OF PROFESSIONAL ENGINEERS CONCERNING THE DESIGN OF FIRE PROTECTION SYSTEMS
FAC 69A-3	FLORIDA ADMINISTRATIVE CODE - THE STATE FIRE PREVENTION CODE
FAC 69A-47	FLORIDA ADMINISTRATIVE CODE - THE UNIFORM FIRE SAFETY STANDARD FOR ELEVATORS
FAC 69A-48	FIRE SAFETY STANDARDS FOR FIRE ALARM SYSTEMS
FAC 69A-60	FLORIDA FIRE PREVENTION CODE
ADAAG	ACCESSIBILITY GUIDELINES FOR BUILDINGS

OWNER'S LIMITATION ON WORK AREA, HOURS AND INTERRUPTIONS

- THE COURTHOUSE PARKING GARAGE CONSISTS OF 5 PARKING LEVELS LABELED P0-P4. EACH PARKING LEVEL IS DIVIDED INTO 7 INDEPENDENT DRY PIPE ZONES.
- ALLOWABLE CONSTRUCTION WORK HOURS WILL BE:
- MONDAY THROUGH FRIDAY (EXCLUDING TUESDAY) - 6:00pm - 6:00am
 - TUESDAY - NO WORK ALLOWED
 - SATURDAY - ALL DAY
 - SUNDAY - ALL DAY
- ACCESS TO SECURE AREAS FOR DEMOLITION AND NEW CONSTRUCTION SHALL BE COORDINATED AND APPROVED BY THE OWNER'S REPRESENTATIVE, ALBERT SESSIONS (850) 509-1745.
- THE CONTRACTOR SHALL NOT OCCUPY OR BLOCK ANY PARKING ACCESS DURING NORMAL BUSINESS HOURS UNLESS PREVIOUSLY ALLOCATED BY OWNER APPROVED PHASING PLAN.
- WORK AREA WILL BE LIMITED TO A THIRD OF EACH PARKING LEVEL AS COORDINATED WITH THE OWNER DURING ABOVE LISTED CONSTRUCTION WORK HOURS. ALL RAMP AREAS WILL BE REQUIRED TO BE OPERATIONAL DURING NORMAL BUSINESS HOURS THROUGHOUT CONSTRUCTION. THE RAMP AREAS WILL BE CONSIDERED A THIRD OF EACH PARKING LEVEL AND THE REMAINING TWO THIRDS WILL CONSIST OF THE FLAT PARKING AREA. PHASED CONSTRUCTION WILL BE REQUIRED FOR EACH THIRD OF EACH PARKING LEVEL. NON-RAMP AREAS WILL BE ALLOWED TO BE CLOSED DURING NORMAL BUSINESS HOURS WHILE WORK IS UNDERWAY AS COORDINATED WITH THE OWNER. TRAFFIC CONTROL AROUND WORK AREAS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR. A PHASING PLAN WILL BE REQUIRED FOR THE PRE-CONSTRUCTION MEETING PREPARED BY THE CONTRACTOR.
- THE CONTRACTOR SHALL NOT INTERRUPT SPRINKLER SERVICE TO FACILITIES OCCUPIED BY OWNER OR OTHERS UNLESS PERMITTED UNDER THE FOLLOWING CONDITIONS AND THEN ONLY AFTER ARRANGING TO PROVIDE TEMPORARY SPRINKLER SERVICE ACCORDING TO REQUIREMENTS INDICATED:
- CONTRACTOR SHALL NOTIFY OWNER NO FEWER THAN TWO DAYS IN ADVANCE OF PROPOSED INTERRUPTION OF SPRINKLER SERVICE.
 - CONTRACTOR SHALL NOT PROCEED WITH INTERRUPTION OF SPRINKLER SERVICE WITHOUT OWNER'S WRITTEN PERMISSION.
 - ALL REQUIREMENTS ASSOCIATED WITH PROVIDING A FIRE WATCH AS COORDINATED WITH THE GOVERNMENTAL AUTHORITIES HAVING JURISDICTION MUST BE MET. OWNER WILL PROVIDE REQUIRED FIRE WATCH BASED ON CONTRACTORS APPROVED CONSTRUCTION SCHEDULE. IF ADDITIONAL FIRE WATCH IS REQUIRED OUTSIDE OF APPROVED CONSTRUCTION SCHEDULE, THE CONTRACTOR WILL BE RESPONSIBLE FOR THE COST OF ADDITIONAL FIRE WATCH.

PIPING AND FITTINGS

	CAP
	ELBOW TURNED UP
	ELBOW TURNED DOWN
	TEE, OUTLET UP
	TEE, OUTLET DOWN
	WET PIPE
	DRY PIPE
	DRAIN PIPING
	NEW PIPE
	EXISTING PIPE TO REMAIN
	EXISTING PIPE TO BE REMOVED
	COMPRESSED AIR

VALVES

	BALL VALVE
	GATE VALVE
	FIRE DEPARTMENT VALVE
	DRY PIPE VALVE
	SWING CHECK VALVE
	OS&Y GATE VALVE

SPRINKLERS

	PENDANT
	EXPOSED UPRIGHT
	CONCEALED
	SIDEWALL

MEASUREMENTS AND CONTROLS

	FLOW SWITCH
	TAMPER SWITCH ON INDICATING TYPE VALVE
	PRESSURE GAUGE AND ISOLATION VALVE

MISCELLANEOUS

	POINT OF CONNECTION, NEW TO EXISTING
	LIMIT OF DEMOLITION
	2 HOUR FIRE RATED WALL

ELECTRICAL

	COMBINATION DISCONNECT SWITCH & MAGNETIC MOTOR STARTER.
	JUNCTION BOX - 4" SQUARE UNLESS NOTED OTHERWISE
	HOMERUN TO PANEL - ARROWS INDICATE NUMBER OF CIRCUITS. SLASH MARKS INDICATE NUMBER OF PHASE CONDUCTORS (NOTE THAT THE GREEN GROUND WIRE IS NOT SHOWN BUT IS REQUIRED IN EACH POWER BRANCH CIRCUIT (6 #10, 2 #12 GND).

WATER FLOW TEST DATA

TEST DATA:	
FIRE PUMP:	
SUCTION PRESSURE	65 PSIG
MEASURED FLOW	1000 GPM
DISCHARGE PRESSURE	150 PSIG
TEST LOCATION	LEON COUNTY COURTHOUSE - PARKING LEVEL 1 TALLAHASSEE, FLORIDA
TEST DATE	02/12/2011
PERFORMED BY	SIMPLEX GRINNELL

FIRE PROTECTION NOTES

- INSTALL ALL WORK IN ACCORDANCE WITH THE PLUMBING CODE, LATEST APPROVED EDITION N.F.P.A. FIRE CODES, LOCAL PLUMBING CODES, AND APPLICABLE O.S.H.A. AND E.P.A. REGULATIONS AND GUIDELINES. WHERE CONFLICTS BETWEEN CODE AND CONSTRUCTION DOCUMENTS OCCUR, THE MOST RESTRICTIVE REQUIREMENTS SHALL GOVERN.
- PROVIDE FIRE SPRINKLER SHOP DRAWINGS AND CALCULATIONS. SIZE PIPING TO PROVIDE AN EXCESS RESIDUAL PRESSURE OF 10 PSI AT DESIGN FLOW. DRAWINGS AND CALCULATIONS SHALL BE SUBMITTED THROUGH THE ENGINEER.
- ALL BRANCH LINES SERVING ONE SPRINKLER SHALL BE 1" UNLESS NOTED OTHERWISE.
- THE BUILDING IS TO REMAIN OCCUPIED DURING CONSTRUCTION. PROVIDE A 24 HOUR FIRE WATCH DURING ALL OUTAGES.
- IN MECHANICAL ROOMS FINAL LOCATION OF SPRINKLERS SHALL BE DETERMINED AFTER EQUIPMENT AND DUCTWORK ARE FIELD VERIFIED. CONTRACTOR SHALL PROVIDE ADDITIONAL SPRINKLERS, IF NECESSARY, TO PROVIDE ADEQUATE COVERAGE IN ACCORDANCE WITH NFPA 13.
- ALARM, SUPERVISORY AND TROUBLE SIGNALS SHALL BE AUTOMATICALLY TRANSMITTED TO AN APPROVED CENTRAL STATION, REMOTE SUPERVISING STATION OR PROPRIETARY SUPERVISING STATION AS DEFINED IN NFPA 72 OR, WHEN APPROVED BY THE BUILDING OFFICIAL, SHALL SOUND AN AUDIBLE SIGNAL AT A CONSTANTLY ATTENDED LOCATION.
- PROVIDE A LISTED GUARD FOR SPRINKLERS IN LOCATIONS SUBJECT TO MECHANICAL INJURY. THESE AREAS SHALL INCLUDE MECHANICAL ROOMS, ELECTRICAL ROOMS, UNDER STAIRWELL LANDING AND IN ELEVATOR SHAFTS.
- AN EXTERNAL AUDIBLE ALARM SHALL BE PROVIDED WHEN THE WATER FLOW SWITCH IS ACTIVATED. THE EXTERNAL ALARM SHALL BE PROVIDED WITH APPROPRIATE SIGNAGE. THE SIGN SHOULD BE LOCATED NEAR THE DEVICE IN A CONSPICUOUS POSITION AND SHOULD BE WORDED AS FOLLOWS: SPRINKLER FIRE ALARM WHEN BELL RINGS CALL FIRE DEPT."
- THE CONTRACTOR SHALL SUBMIT A SEPARATE PERMIT APPLICATION AND PLANS FOR REVIEW PER NFPA 1, 1.14.1 & 1.14.2, FLORIDA 2007 EDITION.
- SEE SPECIFICATION 099113.1 FOR PAINTING DRY PIPE SPRINKLER SYSTEM PIPING AND EQUIPMENT.
- PER SECTION 11-4.6.5 OF THE 2007 FLORIDA BUILDING CODE, STRUCTURES FOR WHICH THE PLANS WERE SEALED BY AN ARCHITECT PRIOR TO JANUARY 1, 1991, ARE EXEMPT FROM THE 98" VERTICAL HEIGHT REQUIREMENT FOR PARKING SPACES COMPLYING WITH SECTION 11-4.1.2(5)(B). SIGNS SHALL BE POSTED TO WARN OPERATORS OF PERMANENT DISABILITY-EQUIPPED VANS THAT THEY CANNOT PASS BEYOND A CERTAIN POINT DUE TO HEIGHT LIMITATIONS.
- MINIMUM SPRINKLER PIPE MOUNTING HEIGHT SHALL BE 7"-0" THROUGHOUT. 6"-8" MINIMUM WILL BE ALLOWED AS AN EXCEPTION IN SOME AREAS WITH APPROPRIATE SIGNAGE AND ENGINEER APPROVAL.
- COORDINATE ALL FLOOR AND STRUCTURAL PENETRATIONS WITH STRUCTURAL STRENGTHENING DRAWINGS PROVIDED IN APPENDIX A OF THE SPECIFICATIONS. DO NOT DAMAGE, PENETRATE OR COMPROMISE THE STRUCTURE IN AREAS WHERE REINFORCING MATERIAL IS PRESENT.

ELECTRICAL GENERAL NOTES

- INSTALL ALL WORK IN ACCORDANCE WITH THE FLORIDA BUILDING CODE 2007 EDITION WITH 2008 & 2009 SUPPLEMENTS, THE FLORIDA FIRE PREVENTION CODE 2007 EDITION, THE NATIONAL ELECTRICAL CODE 2008 EDITION, AND ALL CODES, ORDINANCES, RULES AND REGULATIONS OF AUTHORITIES HAVING JURISDICTION AT THIS SITE. WHERE CONFLICTS OCCUR BETWEEN CODES AND THE CONSTRUCTION DOCUMENTS, THE MOST RESTRICTIVE REQUIREMENTS SHALL GOVERN.
- CONTRACTOR SHALL GUARANTEE THE WORK AND MATERIALS FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE. THIS GUARANTEE SHALL BE IN ADDITION TO THE WARRANTIES PROVIDED BY MATERIAL SUPPLIERS AND MANUFACTURERS.
- ALL WIRING SYSTEMS SHALL BE COPPER CONDUCTORS IN METALLIC CONDUIT. WIRE AND CONDUIT SIZES SHOWN ARE BASED ON THW COPPER. INTERMEDIATE GRADE CONDUIT AND EMT CONDUIT MAY BE USED ELSEWHERE WHERE APPROVED BY N.E.C. AND LOCAL CODES. FLEXIBLE METAL CONDUIT SHALL BE STEEL AND USED TO CONNECT EQUIPMENT WHERE INDICATED AND WHERE REQUIRED DUE TO VIBRATION AND CONNECTION ACCESSIBILITY.
- ALL CONDUIT SHALL BE STRAPPED IN ACCORDANCE WITH REQUIREMENTS OF N.E.C.
- CONTRACTOR SHALL BOND AND GROUND SYSTEMS AND EQUIPMENT PER ARTICLE 250 OF N.E.C. PROVIDE A GROUNDING CONDUCTOR SIZED IN ACCORDANCE WITH ARTICLE 250-122 N.E.C. ON ALL RECEPTACLES AND POWER BRANCH CIRCUITS.
- THE CONTRACTOR SHALL COORDINATE THE CIRCUIT REQUIREMENTS WITH THE MANUFACTURER OF THE ACTUAL EQUIPMENT FURNISHED UNDER OTHER DIVISIONS OF WORK. THE CIRCUIT BREAKER, WIRE AND CONDUIT SHALL BE SIZED AS RECOMMENDED BY THE EQUIPMENT MANUFACTURER.
- PROVIDE A LAMINATED PLASTIC NAMEPLATE IDENTIFYING EACH NEW MOTOR STARTER OR DISCONNECT SWITCH. LETTERING SHALL BE 1/2" MINIMUM AND SHALL IDENTIFY EQUIPMENT SERVED, FEEDER ORIGIN AND CIRCUIT NUMBER. SECURE NAMEPLATE WITH SCREWS TO EQUIPMENT TO BE IDENTIFIED. PLASTIC TAPE IS NOT APPROVED.
- ALL MISCELLANEOUS EQUIPMENT TO BE FURNISHED UNDER OTHER SECTIONS OF THE SPECIFICATIONS THAT REQUIRE ELECTRICAL CONNECTIONS SHALL BE RECEIVED AND SET WITH ROUGH-IN AND FINAL CONNECTIONS MADE UNDER THESE SECTIONS.

FIRE ALARM GENERAL NOTES

- EXISTING FIRE ALARM SYSTEM IS A SIMPLEX SYSTEM. THE MAIN PANEL IS LOCATED ON THE FIRST FLOOR PLAZA LEVEL.
- FIRE ALARM SYSTEMS SHALL MONITOR (PER NFPA 72) ALL LOW PRESSURE ALARM SWITCHES, FIRE FLOW STATUS, TAMPER SWITCHES AND OTHER DEVICES AS REQUIRED BY THE AHJ OR NFPA. NEW DEVICES SHALL BE COMPATIBLE WITH AND INTEGRATED INTO EXISTING FIRE ALARM SYSTEM.

ABBREVIATIONS

AHAP	AS HIGH AS POSSIBLE AUTHORITY HAVING JURISDICTION	GPM	GALLONS PER MINUTE
AHG	AMERICAN WIRE GAUGE	HP	HORSEPOWER
AWG	AMERICAN WIRE GAUGE	IN	INCHES
DN	DOWN	N/A	NOT APPLICABLE
DPV	DRY PIPE VALVE	OS&Y	OUTSIDE SCREW AND YOKER
FDV	FIRE DEPARTMENT VALVE	PH	PHASE
FLA	FULL LOAD AMPS	TS	TAMPER SWITCH
FT	FEET	TYP	TYPICAL
GRN	GROUND	V	VOLT

GENERAL NOTES

- DRAWINGS ARE DIAGRAMMATIC, INDICATIVE OF WORK TO BE FURNISHED AND INSTALLED UNDER THIS CONTRACT.
- FIELD VERIFY ALL DIMENSIONS AND ALL CONDITIONS. IF THE CONTRACTOR IS UNABLE TO INTERPRET THE CONTRACT DOCUMENTS, HE IS RESPONSIBLE TO REQUEST CLARIFICATION IN WRITING TO THE ARCHITECT. IF HE PROCEEDS WITH ANY WORK BEFORE OBTAINING CLARIFICATION, HE SHALL BE HELD RESPONSIBLE FOR ALL DEFICIENCIES ASSOCIATED THEREWITH.
- BEFORE SUBMITTING FOR THE WORK, EACH BIDDER WILL BE RESPONSIBLE TO EXAMINE THE PREMISES AND SATISFY HIMSELF AS TO THE EXISTING CONDITIONS UNDER WHICH HE WILL BE OBLIGATED TO OPERATE AND COMPLETE THE WORK UNDER THIS CONTRACT. NO ALLOWANCE WILL SUBSEQUENTLY BE MADE IN THIS CONNECTION ON BEHALF OF THE CONTRACTOR FOR ANY ERROR OR OMISSION ON HIS PART.
- THE CONTRACTOR SHALL PAY FOR ALL INSPECTION PERMITS, CERTIFICATES, CONNECTION FEES, SYSTEM DEMAND CHARGES AND LICENSE FEES IN CONNECTION WITH HIS WORK.
- PRIME CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WORK OF ALL SUBCONTRACTORS TO AVOID INTERFERENCES.
- ALL WORK SHALL COMPLY WITH APPLICABLE O.S.H.A. AND E.P.A. REGULATIONS AND GUIDELINES.
- ERECT AND MAINTAIN ALL REASONABLE PRECAUTIONS FOR SAFETY AND HEALTH INCLUDING POSTING DANGER SIGNS AND OTHER WARNINGS AGAINST HAZARDS INCLUDING PROMULGATING SAFETY REGULATIONS. PROVIDE SAFETY PRECAUTIONS AND BARRICADES FOR PEDESTRIANS AT CONSTRUCTION VEHICLE ACCESS AND EGRESS LOCATIONS.
- COORDINATE AND SEQUENCE ALL DEMOLITION, CLEANING AND CONSTRUCTION WORK. SUBMIT A COMPLETELY DETAILED CONSTRUCTION SCHEDULE PRIOR TO PRE-CONSTRUCTION CONFERENCE.
- THE CONTRACTOR SHALL STRICTLY BE HELD TO THE PROJECT SCHEDULE. HE SHALL PROVIDE SUFFICIENT MANPOWER AND EQUIPMENT TO FULLY MOBILIZE, PROCEED WITH AND COMPLETE THE WORK.
- THE CONTRACTOR SHALL BE RESTRICTED TO AREAS SPECIFIED BY THE OWNER FOR ON-SITE STORAGE OF CONSTRUCTION MATERIALS. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION AND SECURITY OF ALL EQUIPMENT AND MATERIALS.
- THE CONTRACTOR SHALL MAINTAIN A CLEAN WORK ENVIRONMENT AT ALL TIMES AND SHALL CLEAN CONSTRUCTION SITE OF ALL DEBRIS AT COMPLETION OF THE JOB AND BEFORE FINAL PAYMENT IS MADE.
- THE CONTRACTOR SHALL FURNISH "AS-BUILT" DRAWINGS TO THE OWNER AT COMPLETION OF CONSTRUCTION.
- CONTRACTOR'S USE OF AN APPROVAL STAMP ON DOCUMENTS SUBMITTED AS SHOP DRAWINGS, PRODUCT DATA, SAMPLES AND SIMILAR SUBMITTALS CERTIFIES THAT THE CONTRACTOR HAS COMPLIED WITH THE CONTRACT DOCUMENT REQUIREMENTS RELATED TO "SHOP DRAWINGS, PRODUCT DATA AND SAMPLES".
- THE CONTRACTOR SHALL NOT BE RELIEVED OF RESPONSIBILITY FOR DEVIATIONS FROM REQUIREMENTS OF THE CONTRACT DOCUMENTS BY THE ENGINEER'S APPROVAL OF SHOP DRAWINGS, PRODUCT DATA, SAMPLES OR SIMILAR SUBMITTALS UNLESS THE CONTRACTOR HAS SPECIFICALLY INFORMED THE ENGINEER IN WRITING OF SUCH DEVIATION AT THE TIME OF SUBMITTAL AND THE ENGINEER HAS GIVEN WRITTEN APPROVAL TO THE SPECIFIC DEVIATION. THE CONTRACTOR SHALL NOT BE RELIEVED OF RESPONSIBILITY FOR ERRORS OR OMISSIONS IN SHOP DRAWINGS, PRODUCT DATA, SAMPLES OR SIMILAR SUBMITTALS BY THE ENGINEER'S APPROVAL THEREOF.
- NOTE ANY SPECIAL REQUIREMENTS INVOLVED IN INSTALLING THE EQUIPMENT IN THE BUILDING. DISMANTLING AND REASSEMBLING OF ANY EQUIPMENT SHALL BE DONE AS REQUIRED FOR ENTRY INTO THE BUILDING AND EQUIPMENT ROOMS.
- SUPPORTS AND HANGERS SHALL PRESENT A NEAT, ORDERLY APPEARANCE.
- CONTRACTOR SHALL MAINTAIN THE INTEGRITY OF ALL FIRE AND SMOKE WALL ASSEMBLIES.
- CONTRACTOR SHALL FURNISH U.L. APPROVED DRAWINGS FOR EACH TYPE OF FIRE RATED ASSEMBLY PENETRATION BY PIPES OR CONDUITS. THESE DRAWINGS SHALL BE DISPLAYED ON THE JOB SITE AT ALL TIMES DURING CONSTRUCTION.
- CONTRACTOR SHALL GUARANTEE THE WORK AND MATERIALS FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE. THIS GUARANTEE SHALL BE IN ADDITION TO THE WARRANTIES PROVIDED BY MATERIAL SUPPLIERS AND MANUFACTURERS.
- THE BUILDING WILL REMAIN OCCUPIED DURING CONSTRUCTION. THE OWNER WILL MAKE ALL REASONABLE EFFORTS TO ASSIST THE CONTRACTOR IN COMPLETING THE WORK. COORDINATE ALL WORK WITH THE OWNER'S DESIGNATED REPRESENTATIVE.
- EXIT WAYS SHALL BE KEPT CLEAR. IF AN EXIT MUST BE TEMPORARILY BLOCKED, PROVIDE THE REQUIRED BARRICADE AND DIRECTIONAL SIGNS FOR TEMPORARY EXITING AND SAFETY.
- SEAL ALL HOLES IN WALLS, CEILINGS, FLOORS, ETC. TO MATCH EXISTING ADJACENT SURFACES WHERE EQUIPMENT, CONDUIT AND/OR PIPING ARE REMOVED.
- RELOCATE, AS REQUIRED, ANY EXISTING WIRE AND CONDUIT WHICH INTERFERES WITH INSTALLATION OF THE NEW WORK.
- ALL EXISTING EQUIPMENT IS THE PROPERTY OF THE OWNER AND SHALL BE DISPOSED OF AS DIRECTED BY THE OWNER. DISPOSE OF ALL MATERIALS AND EQUIPMENT SHOWN TO BE REMOVED IN ACCORDANCE WITH LOCAL REGULATIONS.
- REMOVE ALL ELECTRICAL EQUIPMENT (CONDUIT, POWER & CONTROL WIRING, DISCONNECT SWITCHES, STARTERS, ETC.) RELATED TO EQUIPMENT BEING REMOVED OR REPLACED.

DRAWING INDEX

F0.1	GENERAL NOTES, LEGENDS AND SCHEDULES - FIRE PROTECTION
F1.0S	PARKING LEVEL 0 SOUTH DEMOLITION FLOOR PLAN - FIRE PROTECTION
F1.1S	PARKING LEVEL 1 SOUTH DEMOLITION FLOOR PLAN - FIRE PROTECTION
F1.2S	PARKING LEVEL 2 SOUTH DEMOLITION FLOOR PLAN - FIRE PROTECTION
F1.3S	PARKING LEVEL 3 SOUTH DEMOLITION FLOOR PLAN - FIRE PROTECTION
F1.3N	PARKING LEVEL 3 NORTH DEMOLITION FLOOR PLAN - FIRE PROTECTION
F1.3N	PARKING LEVEL 3 NORTH DEMOLITION FLOOR PLAN - FIRE PROTECTION
F1.4S	PARKING LEVEL 4 SOUTH DEMOLITION FLOOR PLAN - FIRE PROTECTION
F1.4N	PARKING LEVEL 4 NORTH DEMOLITION FLOOR PLAN - FIRE PROTECTION
F2.0S	PARKING LEVEL 0 SOUTH FLOOR PLAN - FIRE PROTECTION
F2.1S	PARKING LEVEL 1 SOUTH FLOOR PLAN - FIRE PROTECTION
F2.2.S	PARKING LEVEL 2 SOUTH FLOOR PLAN - FIRE PROTECTION
F2.3S	PARKING LEVEL 3 SOUTH FLOOR PLAN - FIRE PROTECTION
F2.3N	PARKING LEVEL 3 NORTH FLOOR PLAN - FIRE PROTECTION
F2.4S	PARKING LEVEL 4 SOUTH FLOOR PLAN - FIRE PROTECTION
F2.4N	PARKING LEVEL 4 NORTH FLOOR PLAN - FIRE PROTECTION
F3.1	DETAILS - FIRE PROTECTION



12061 PROJECT CODE
STC/SPD DRAWN BY

08/30/2011 DATE
STC/RLC CHECKED BY

CONSTRUCTION DOCUMENTS

REVISED	9/13/11 ADD. #1

GENERAL NOTES LEGEND AND SCHEDULES - FIRE PROTECTION

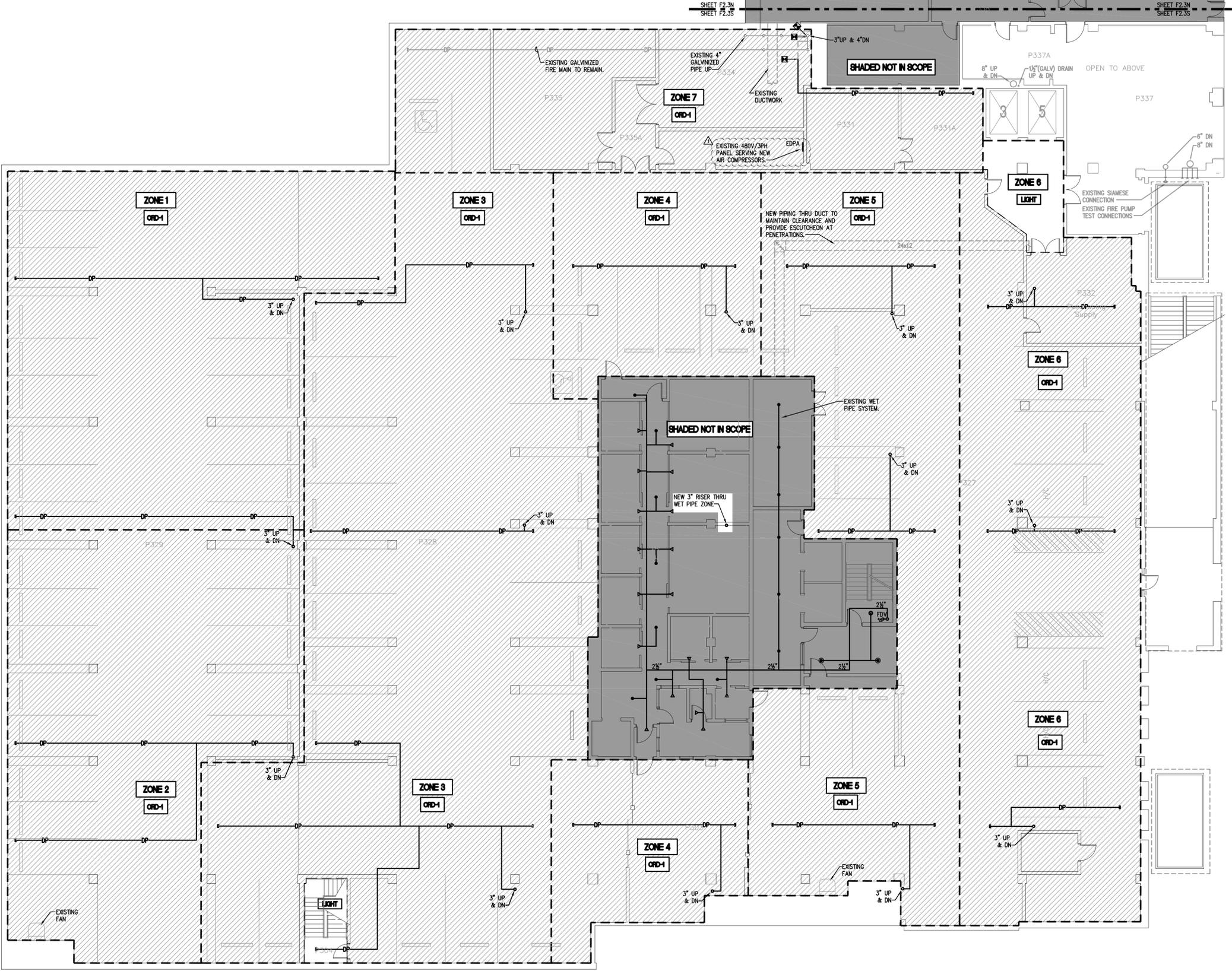
LEON COUNTY COURTHOUSE PARKING GARAGE SPRINKLERS

Tallahassee Florida

F0.1

GENERAL NOTES

1. MINIMUM SPRINKLER PIPE MOUNTING HEIGHT SHALL BE 7'-0" THROUGHOUT. 6'-8" MINIMUM WILL BE ALLOWED AS AN EXCEPTION IN SOME AREAS WITH APPROPRIATE SIGNAGE AND ENGINEER APPROVAL. MOUNT PIPE AS HIGH AS POSSIBLE.
2. COORDINATE ALL FLOOR AND STRUCTURAL PENETRATIONS WITH STRUCTURAL STRENGTHENING DRAWINGS PROVIDED IN APPENDIX A OF THE SPECIFICATIONS. DO NOT DAMAGE, PENETRATE OR COMPROMISE THE STRUCTURE IN AREAS WHERE REINFORCING MATERIAL IS PRESENT.



1 PARKING LEVEL 3 SOUTH FLOOR PLAN - FIRE
F2.3S SCALE 3/32"=1'-0"

H2 ENGINEERING
 114 EAST 2ND AVENUE, TALLAHASSEE, FL 32301
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H2E PROJECT No. 1108
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Florida Certificate of Authorization #2485
 Ryan L. Chewing, P.E. #63103

BARNETT FRONCZAK BARLOWE ARCHITECTS

12061 PROJECT CODE
STC/SPD DRAWN BY

08/30/2011 DATE
STC/RLC CHECKED BY

CONSTRUCTION DOCUMENTS

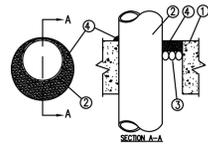
REVISED	DATE	DESCRIPTION
▲	9/13/11	ADD. #1
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PARKING LEVEL 3 SOUTH FLOOR PLAN - FIRE

LEON COUNTY COURTHOUSE PARKING GARAGE SPRINKLERS
 Tallahassee Florida

F2.3S

System No. C-AJ-1044
 June 15, 2005
 (Formerly System No. 319)
 F Ratings - 2, 3, and 4 Hr (See Items 2A and 4)
 T Rating - 0 Hr
 L Rating At Ambient - 2 CFM/sq ft
 L Rating At 400 F - less than 1 CFM/sq ft
 W Rating - Class I (See Item 4)



1. Floor or Wall Assembly - Lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) concrete. Except as noted in table under Item 4, min thickness of solid concrete floor or wall assembly is 4-1/2 in. (114 mm). Floor may also be constructed of any min 6 in. (152 mm) thick UL Classified hollow core Precast Concrete Units*. When floor is constructed of hollow core precast concrete units, packing material (Item 3) and caulk fill material (Item 4) to be installed symmetrically on both sides of floor, flush with floor surface. Wall assembly may also be constructed of any UL Classified Concrete Blocks*. Max diam of opening is in solid lightweight or normal weight concrete. Floor is 32 in. (813 mm). Max diam of opening in floor constructed of hollow-core precast concrete units is 7 in. (178 mm).

See Concrete Blocks (CAZ1) and Precast Concrete Units (CFTV) categories in the Fire Resistance Directory for names of manufacturers.

1A. Steel Sleeve (Optional, not shown) - Max 15 in. (381 mm) ID (or smaller) Schedule 10 (or heavier) steel sleeve cast or grouted into floor or wall assembly. Sleeve may extend a max of 2 in. (51 mm) above top of floor or beyond either surface of wall. Max 16 in. (406 mm) ID (or smaller) min 0.028 (0.71 mm) wall thickness (or heavier) galvanized steel sleeve cast or grouted into floor or wall assembly. Sleeve may extend a max of 1/2 in. (13 mm) beyond either surface of floor or wall.

2. Through Penetrants - One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. Max annular space between pipe, conduit or tubing and edge of through opening or sleeve is dependent on the parameters shown in Item 4. Min annular space between pipe or conduit and edge of through opening is 0 in. (0 mm) (point contact). Pipe conduit or tubing to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:

- A. Steel Pipe** - Nom 30 in. (762 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
- B. Iron Pipe** - Nom 30 in. (762 mm) diam (or smaller) cast or ductile iron pipe.
- C. Conduit** - Nom 6 in. (152 mm) diam (or smaller) rigid steel conduit.
- D. Conduit** - Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing.
- E. Copper** - Tubing Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tube.
- F. Copper Pipe** - Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe.

3. Packing Material - Polyethylene backer rod or nom 1 in. (25 mm) thickness of tightly-packed mineral wool batt or glass fiber insulation firmly packed into opening as a permanent form. Packing material to be recessed from top surface of floor or from both surfaces of wall as required to accommodate the required thickness of caulk fill material (Item 4).

4. Fill/Void or Cavity Material* - Caulk or Sealant - Applied to fill the annular space flush with top surface of floor. In wall assemblies, required caulk thickness to be installed symmetrically on both sides of wall, flush with wall surface. At point contact location between penetrant and sleeve or between penetrant and concrete, a min 1/4 in. (6 mm) diam bead of caulk shall be applied at top surface of floor and at both surfaces of wall. The hourly F Ratings and the min required caulk thicknesses are dependent upon a number of parameters, as shown in the following table:

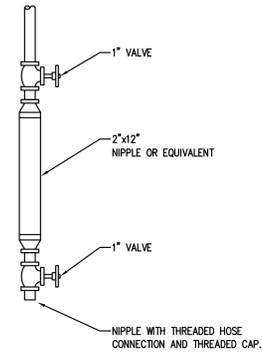
Min Floor or Wall Thins In. (mm)	Nom Pipe Tube or Conduit Diam In. (mm)	Max Annular Space In. (mm)	Min Caulk Thins In. (mm)	F Rating Hr
2-1/2 (64)	1/2-12 (13-305)	1/2-3/8 (25)	1/2 (13)	2
2-1/2 (64)	1/2-12 (13-305)	3-1/4 (83)	1 (25)	2
4-1/2 (114)	1/2-6 (13-152)	1-3/8 (35)	1/4 (6) (a)	2
4-1/2 (114)	1/2-12 (13-305)	1-1/8 (29)	1/2 (13)	3
4-1/2 (114)	1/2-20 (13-508)	2 (51)	1 (25)	3
4-1/2 (114)	1/2-20 (13-508)	2 (51)	1 (25)	3
4-1/2 (114)	1/2-12 (13-305)	3-1/4 (83)	1 (25)	3
4-1/2 (114)	22-30 (558-762)	2 (51)	2 (51)	3
5-1/2 (140)	1/2-6 (13-152)	1-3/8 (35)	1 (25) (b)	4

(a) Min 2 in. (51 mm) thickness of mineral wool batt insulation required in annular space.
 (b) Min 1 in. (25 mm) thickness of mineral wool batt insulation required in annular space on both sides of floor or wall assembly. Min 1 in. (25 mm) thickness of caulk to be installed flush with each surface of floor or wall assembly.

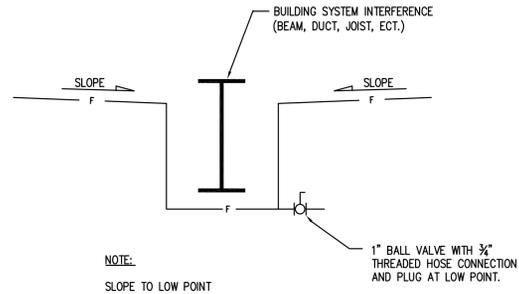
3M COMPANY - CP 25WB+ caulk or FB-3000 WT sealant. (Note: W Rating applies only when FB-3000 WT sealant is used.)

*Bearing the UL Classification Marking

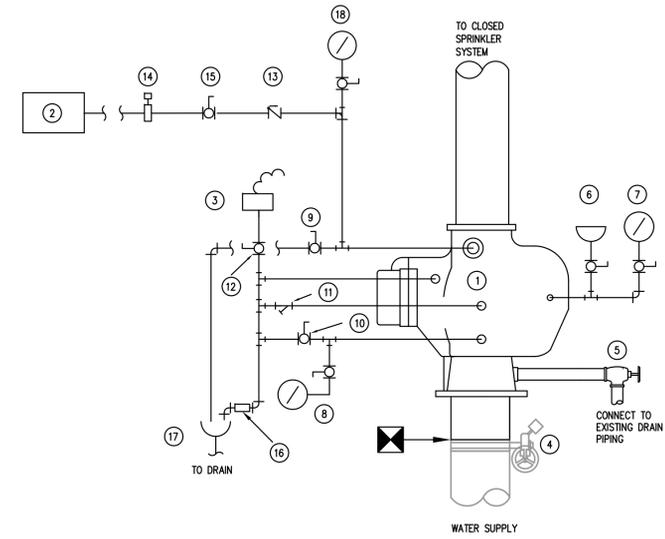
APPLICABLE SYSTEMS
 CONDUIT
 FIRE



C DRY SYSTEM AUXILIARY DRAIN



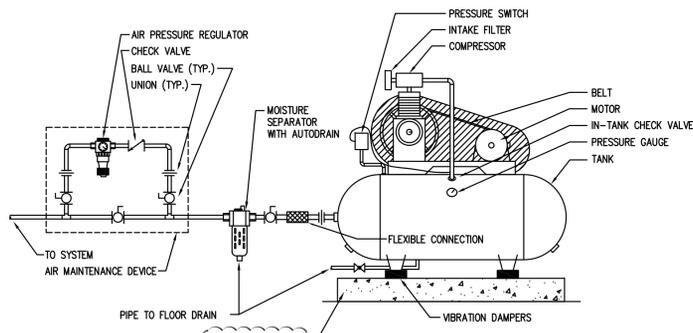
NOTE:
 SLOPE TO LOW POINT



- 1 DRY PIPE VALVE
- 2 AIR COMPRESSOR - SEE DETAIL G/F3.1
- 3 LOW PRESSURE ALARM. CONNECT TO EXISTING FIRE ALARM SYSTEM.
- 4 EXISTING INDICATING VALVE WITH STATUS SWITCH
- 5 2" DRAIN AND VALVE
- 6 PRIMING CUP
- 7 AIR PRESSURE GAUGE
- 8 WATER PRESSURE GAUGE
- 9 BALL VALVE (TYPICAL)
- 10 ALARM TEST VALVE
- 11 STRAINER
- 12 ALARM CONTROL VALVE
- 13 CHECK VALVE
- 14 PRESSURE RELIEF VALVE
- 15 AIR SUPPLY CONTROL VALVE
- 16 AUTOMATIC DRAIN VALVE
- 17 DRIP FUNNEL
- 18 AIR PRESSURE GAUGE

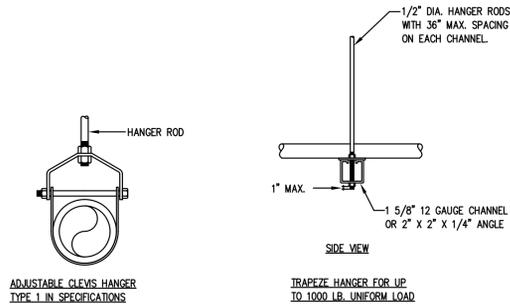
NOTE: PROVIDE AN ACCELERATOR FOR DRY PIPE SYSTEM EXCEEDING 500 GALLONS TO MEET THE MAXIMUM TIME OF WATER DELIVERY AS REQUIRED BY NFPA 13 11.2.3.9. AN ACCELERATOR IS NOT REQUIRED IF THE MAXIMUM WATER DELIVERY TIME TO THE SYSTEM TEST CONNECTION MEETS THE REQUIREMENTS OF NFPA 13 11.2.3.9. PROVIDE TYCO MODEL ACC-1 OR APPROVED EQUAL.

F METALLIC PIPE THROUGH CONCRETE PARTITION



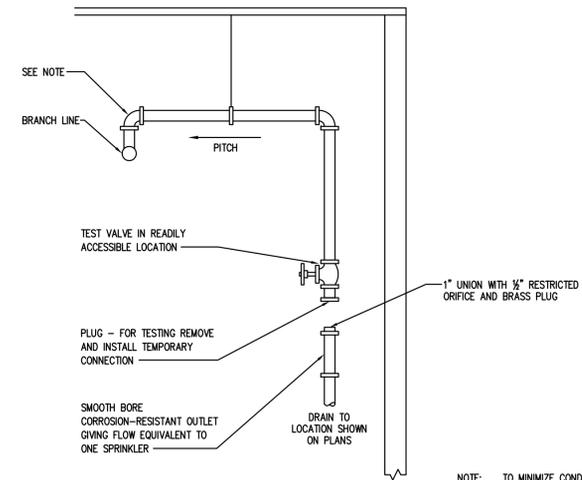
NOTE: CONTRACTOR SHALL PROVIDE UL LISTED COMPRESSOR SYSTEM.

D SPRINKLER AUXILIARY DRAIN



NOTES:
 1. SEE SPECIFICATIONS FOR SPACING OF HANGERS.
 2. ALL HANGERS, BRACES, AND ATTACHMENT HARDWARE INCLUDING FASTENERS SHALL BE HOT-DIP GALVANIZED STEEL.

A DRY PIPE SPRINKLER SYSTEM RISER



NOTE: TO MINIMIZE CONDENSATION OF WATER IN THE DROP TO THE TEST CONNECTION, PROVIDE A NIPPLE-UP OFF THE BRANCH LINE.

G TANK MOUNTED AIR COMPRESSOR

E PIPE HANGERS

B INSPECTOR'S TEST STATION FOR DRY PIPE SYSTEM

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 www.H2Engineering.com
 H2E PROJECT No. 1108
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BARNETT FRONCZAK BARLOWE ARCHITECTS

12061 PROJECT CODE
STC/SPD DRAWN BY

08/30/2011 DATE
STC/RLC CHECKED BY

CONSTRUCTION DOCUMENTS

- REVISED
- ▲ 9/13/11 ADD. #1
 - ▲
 - ▲
 - ▲
 - ▲
 - ▲
 - ▲
 - ▲

DETAILS - FIRE

LEON COUNTY COURTHOUSE PARKING GARAGE SPRINKLERS

Tallahassee Florida

F3.1