

**PROJECT MANUAL  
FOR  
CITY OF LYNCHBURG**

**May 21, 2013**

**Roof Replacement and General Repairs for  
Task 1: Miller Park Pavilions**

**1200 Park Avenue  
Lynchburg, Va. 24501**

**Lynchburg City Building Numbers:  
PSMP1 – Larger Pavilion  
PSMP2 – Smaller Pavilion**



**PROCUREMENT DIVISION  
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**SECTION 01-1000**

**SUMMARY**

**PART 1 GENERAL**

**1.01 PROJECT**

- A. Project Name: Roof Replacement & General Repairs for Task1: Miller Park Pavilions.
- B. Owner Building Designations:
  - 1. PSMP1 ( Large Pavilion)
  - 2. PSMP2 ( Small Pavilion)
- C. Owner's Name: City of Lynchburg.
  - 1. Owner's Project Representative: Scott Glass, AIA
- D. Architect's Name: Craddock Cunningham Architectural Partners.
  - 1. Project Architect: Mark W. Smith
- E. The project consists of general exterior repairs including replacement of damaged wood fascia and roof decking. Removal and replacement of asphalt shingles and associated metal flashing.

**1.02 CONTRACT DESCRIPTION**

- A. Contract Type: A single prime contract based on a Stipulated Price as described in agreement.

**1.03 CONTRACTOR USE OF SITE**

- A. Construction Operations: Limited to the immediate area of the pavilion and grounds. Staging and storage areas to be within the adjacent parking area and yard as mutually agreed upon by contractor and owner.
- B. Provide access to and from site as required by law and by Owner:
  - 1. Do not obstruct roadways, sidewalks, or other public ways without permit.

**1.04 WORK SEQUENCE**

- A. Coordinate construction schedule and operations with Owner.

**PART 2 PRODUCTS - NOT USED**

**PART 3 EXECUTION - NOT USED**

**END OF SECTION**

## **SECTION 01-3000**

### **ADMINISTRATIVE REQUIREMENTS**

#### **PART 1 GENERAL**

##### **1.01 SECTION INCLUDES**

- A. Preconstruction meeting.
- B. Submittals for review, information, and project closeout.

##### **1.02 PROJECT COORDINATION**

- A. Project Coordinator: Scott Glass will be main contact for project.
- B. During construction, coordinate use of site and facilities through the Project Coordinator.
- C. Comply with instructions of the Project Coordinator for use of temporary utilities and construction facilities.
- D. Make the following types of submittals to Architect through the Project Coordinator:
- E. The project coordinator may allow the general contractor to submit the following directly to the architect. This will be determined at the pre-construction meeting:
  - 1. Requests for interpretation.
  - 2. Requests for substitution.
  - 3. Shop drawings, product data, and samples.
  - 4. Applications for payment and change order requests.
  - 5. Closeout submittals.

#### **PART 2 PRODUCTS - NOT USED**

#### **PART 3 EXECUTION**

##### **3.01 PRECONSTRUCTION MEETING**

- A. Architect will schedule a meeting after Notice of Award.
- B. Attendance Required:
  - 1. Owner.
  - 2. Architect.
  - 3. Contractor.
- C. Record minutes and distribute copies within two days after meeting to participants, with two copies to Architect, Owner, participants, and those affected by decisions made.

##### **3.02 SUBMITTALS FOR REVIEW**

- A. When the following are specified in individual sections, submit them for review:
  - 1. Product data.
  - 2. Samples for selection.
- B. Samples will be reviewed only for aesthetic, color, or finish selection.

**END OF SECTION**

**SECTION 01-4000**

**QUALITY REQUIREMENTS**

**PART 1 GENERAL**

**1.01 SECTION INCLUDES**

- A. Control of installation.

**1.02 RELATED REQUIREMENTS**

- A. Section 01-3000 - Administrative Requirements: Submittal procedures.

**PART 2 PRODUCTS - NOT USED**

**PART 3 EXECUTION**

**3.01 CONTROL OF INSTALLATION**

- A. Monitor quality control over suppliers, manufacturers, products, services, site conditions, and workmanship, to produce Work of specified quality.
- B. Comply with manufacturers' instructions, including each step in sequence.
- C. Should manufacturers' instructions conflict with Contract Documents, request clarification from Architect before proceeding.
- D. Comply with specified standards as minimum quality for the Work except where more stringent tolerances, codes, or specified requirements indicate higher standards or more precise workmanship.
- E. Have Work performed by persons qualified to produce required and specified quality.

**3.02 DEFECT ASSESSMENT**

- A. Replace Work or portions of the Work not conforming to specified requirements.
- B. If, in the opinion of Architect, it is not practical to remove and replace the Work, Architect will direct an appropriate remedy or adjust payment.

**END OF SECTION**

**SECTION 01-5000**

**TEMPORARY FACILITIES AND CONTROLS**

**PART 1 GENERAL**

**1.01 SECTION INCLUDES**

- A. Temporary utilities.
- B. Temporary Controls: Barriers, enclosures, and fencing.
- C. Vehicular access and parking.
- D. Waste removal facilities and services.

**1.02 TEMPORARY UTILITIES**

- A. Owner will provide the following:
  - 1. Electrical power, consisting of connection to existing facilities.
  - 2. Water supply, consisting of connection to existing facilities.
  - 3. Contractor is required to provide all components and make all connections to facilities and to restore temporary connections once project is complete. Remove panels, conduit, piping and patch finishes as required to return facility to previous appearance.
- B. Use trigger-operated nozzles for water hoses, to avoid waste of water.

**1.03 BARRIERS**

- A. Provide barriers to prevent unauthorized entry to construction areas, to prevent access to areas that could be hazardous to workers or the public and to protect existing facilities and adjacent properties from damage from construction operations.
  - 1. Polyethylene 4 feet high orange barricade fence.

**1.04 VEHICULAR ACCESS AND PARKING**

- A. Existing parking areas located at public parking at Miller Park may be used for construction parking.

**1.05 WASTE REMOVAL**

- A. No waste containers will be allowed on site. Dispose of waste daily by use of truck.

**PART 2 PRODUCTS - NOT USED**

**PART 3 EXECUTION - NOT USED**

**END OF SECTION**

## SECTION 01-7000

### EXECUTION AND CLOSEOUT REQUIREMENTS

#### PART 1 GENERAL

##### 1.01 SECTION INCLUDES

- A. Examination, preparation, and general installation procedures.
- B. Cutting and patching.
- C. Cleaning and protection.

##### 1.02 COORDINATION

- A. Coordinate completion and clean-up of work of separate sections.
- B. After Owner occupancy of premises, coordinate access to site for correction of defective work and work not in accordance with Contract Documents, to minimize disruption of Owner's activities.

#### PART 2 PRODUCTS

##### 2.01 PATCHING MATERIALS

- A. New Materials: As specified in product sections; match existing products and work for patching and extending work.
- B. Type and Quality of Existing Products: Determine by inspecting and testing products where necessary, referring to existing work as a standard.

#### PART 3 EXECUTION

##### 3.01 EXAMINATION

- A. Verify that existing site conditions and substrate surfaces are acceptable for subsequent work. Start of work means acceptance of existing conditions.
- B. Take field measurements before confirming product orders or beginning fabrication, to minimize waste due to over-ordering or misfabrication.
- C. Prior to Cutting: Examine existing conditions prior to commencing work, including elements subject to damage or movement during cutting and patching. After uncovering existing work, assess conditions affecting performance of work. Beginning of cutting or patching means acceptance of existing conditions.

##### 3.02 PREPARATION

- A. Clean substrate surfaces prior to applying next material or substance.
- B. Seal cracks or openings of substrate prior to applying next material or substance.
- C. Apply manufacturer required or recommended substrate primer, sealer, or conditioner prior to applying any new material or substance in contact or bond.

##### 3.03 ALTERATIONS

- A. Remove existing work as indicated and as required to accomplish new work.
  - 1. Where new surface finishes are to be applied to existing work, perform removals, patch, and prepare existing surfaces as required to receive new finish; remove existing finish if necessary for successful application of new finish.
  - 2. Where new surface finishes are not specified or indicated, patch holes and damaged surfaces to match adjacent finished surfaces as closely as possible.

- B. Adapt existing work to fit new work: Make as neat and smooth transition as possible.
- C. Patching: Where the existing surface is not indicated to be refinished, patch to match the surface finish that existed prior to cutting. Where the surface is indicated to be refinished, patch so that the substrate is ready for the new finish.
- D. Refinish existing surfaces as indicated:
  - 1. Clean wood and remove stain for new application of stain and sealer.
  - 2. Clean conduits and light fixtures attached to structure.
- E. Remove demolition debris and abandoned items from alterations areas and dispose of off-site.

#### **3.04 CUTTING AND PATCHING**

- A. Perform whatever cutting and patching is necessary to:
  - 1. Complete the work.
  - 2. Fit products together to integrate with other work.
  - 3. Match work that has been cut to adjacent work.
  - 4. Repair areas adjacent to cuts to required condition.

#### **3.05 PROGRESS CLEANING**

- A. Maintain areas free of waste materials, debris, and rubbish. Maintain site in a clean and orderly condition.

#### **3.06 FINAL CLEANING**

- A. Execute final cleaning prior to final project assessment.
- B. Clean debris from roofs, gutters and downspouts.
- C. Clean site; sweep paved areas, rake clean landscaped surfaces.

#### **3.07 CLOSEOUT PROCEDURES**

- A. Notify Architect when work is considered ready for Substantial Completion.
- B. Correct items identified as not complying with requirements.

**END OF SECTION**

**SECTION 07-0150.19**

**PREPARATION FOR RE-ROOFING**

**PART 1 GENERAL**

**1.01 SECTION INCLUDES**

- A. Removal of existing roofing system in preparation for a new roof membrane system.

**PART 2 PRODUCTS - NOT USED**

**PART 3 EXECUTION**

**3.01 MATERIAL REMOVAL**

- A. Remove only existing roofing materials that can be replaced with new materials as the weather will permit.
- B. Remove drip edge.
- C. Repair or replace existing wood deck boards as required for solid deck construction. All deck replacement shall be of same type and size. The only change in cost to project will be decking that is determined to have rot or damage from the concealed side of roof structure.
- D. Replace all wood fascia of same type and size.

**3.02 PROTECTION**

- A. Provide temporary protective sheeting over uncovered deck surfaces.
- B. Provide for surface drainage from sheeting to existing drainage outlets.

**END OF SECTION**

## SECTION 07-3113

### ASPHALT SHINGLES

#### PART 1 GENERAL

##### 1.01 SECTION INCLUDES

- A. Asphalt shingle roofing.
- B. Associated metal flashings and accessories.

##### 1.02 SUBMITTALS

- A. See Section 01-3000 - Administrative Requirements, for submittal procedures.
- B. Product Data: Provide data indicating material characteristics.
- C. Samples: Submit one samples of each shingle color indicating color range and finish texture/pattern; for color selection.
- D. Manufacturer's Instructions: Indicate installation criteria and procedures.
- E. Maintenance Materials: Furnish the following for Owner's use in maintenance of project.
  - 1. Extra Shingles: 25 sq ft of each type and color.

##### 1.03 QUALITY ASSURANCE

- A. Perform Work in accordance with the recommendations of NRCA Steep Roofing Manual.

##### 1.04 FIELD CONDITIONS

- A. Do not install shingles when ambient air temperatures are below 45 degrees F.

#### PART 2 PRODUCTS

##### 2.01 SHINGLES

- A. Manufacturers:
  - 1. Atlas Roofing Corporation; Product StormMaster Slate: [www.atlasroofing.com](http://www.atlasroofing.com).
  - 2. GAF Materials Corporation; Product Timberline Natural Shadow: [www.gaf.com](http://www.gaf.com).
  - 3. Owens Corning Corp; Product Berkshire Collection: [www.owenscorning.com](http://www.owenscorning.com).
  - 4. CertianTeed; Product Centinial Slate. [www.certainteed.com](http://www.certainteed.com)
  - 5. Tamko; Product: Premium Heritage. [www.tamko.com](http://www.tamko.com)

##### 2.02 SHEET MATERIALS

- A. Underlayment: Asphalt-saturated organic roofing felt, unperforated, complying with ASTM D226, Type II ("No.30").

##### 2.03 ACCESSORIES

- A. Nails: Standard round wire shingle type, of hot-dipped zinc coated steel, 12 gage, 0.105 inch shank diameter, 3/8 inch head diameter, of sufficient length to penetrate decking 3/4 inch but not through roof decking.

##### 2.04 METAL FLASHINGS

- A. Metal Flashings: Provide sheet metal eave edge.
- B. Ridge Cap: At octagonal roof, provide a pre-fabricated metal cap with concealed cleats to terminate the ridges of roof plane to the peak of roof. All seams shall be locked and soldered.
  - 1. Hem exposed edges of flashings minimum 1/4 inch on underside.
- C. Sheet Metal: 24 gage, pre-finished paint system for the eave edge.

- D. Sheet Metal: Copper, 16 oz for the ridge cap.

### **PART 3 EXECUTION**

#### **3.01 EXAMINATION**

- A. Verify existing conditions prior to beginning work.
- B. Verify deck surfaces are dry, free of ridges, warps, or voids.

#### **3.02 PREPARATION**

- A. Install eave edge flashings tight with fascia boards. Weather lap joints 2 inches and seal with plastic cement. Secure flange with nails spaced 12 inches on center.

#### **3.03 INSTALLATION- UNDERLAYMENT**

- A. At Roof Slopes Up to 4:12 : Install two layers of underlayment over entire roof area, with ends and edges weather lapped minimum 4 inches. Stagger end laps of each consecutive layer. Nail in place.
- B. At Roof Slopes Greater Than 4:12 : Install underlayment perpendicular to slope of roof, with ends and edges weather lapped minimum 4 inches. Stagger end laps of each consecutive layer. Nail in place. Weather lap minimum 4 inches over eave protection.
- C. Install underlayment through out the entire roof surface.
- D. Install underlayment perpendicular to slope of roof, with ends and edges weather lapped per manufacturers instructions. Stagger end laps of each consecutive layer.

#### **3.04 INSTALLATION- METAL FLASHING AND ACCESSORIES**

- A. Install flashings in accordance with NRCA requirements.

#### **3.05 INSTALLATION- SHINGLES**

- A. Install shingles in accordance with manufacturer's instructions.
- B. Extend shingles 1/2 inch beyond face of gable edge fascia boards.
- C. Verify that nails do not penetrate the decking to exposure on the underside of deck.
- D. Lay shingle to prevent damage from worker walking on finished roof. Protect installed shingles.

**END OF SECTION**

## SECTION 07-9005

### JOINT SEALERS

#### PART 1 GENERAL

##### 1.01 SECTION INCLUDES

- A. Sealants and joint backing.

#### PART 2 PRODUCTS

##### 2.01 MANUFACTURERS

- A. Polyurethane Sealants:
  - 1. Pecora Corporation; Product Pecora Dynatrol II: [www.pecora.com](http://www.pecora.com).
  - 2. Chemrex Sonneborn NP1
  - 3. Tremco Dymeric 240
  - 4. Sherwin-Williams Company; Stampede-1/-TX Polyurethane Sealant: [www.sherwin-williams.com](http://www.sherwin-williams.com).
- B. Acrylic Sealants (ASTM C920):
  - 1. Tremco Global Sealants: [www.tremcosealants.com](http://www.tremcosealants.com).
  - 2. Red Devil; Siliconized Acrylic Construction Grade (35 Year) Sealant: [www.reddevil.com](http://www.reddevil.com).
  - 3. Sherwin-Williams Company; Powerhouse Siliconized Acrylic Latex Sealant: [www.sherwin-williams.com](http://www.sherwin-williams.com).

##### 2.02 ACCESSORIES

- A. Joint Cleaner: Non-corrosive and non-staining type, recommended by sealant manufacturer; compatible with joint forming materials.
- B. Joint Backing: Round foam rod compatible with sealant; closed cell polyethylene; oversized 30 to 50 percent larger than joint width.
- C. Bond Breaker: Pressure sensitive tape recommended by sealant manufacturer to suit application.

#### PART 3 EXECUTION

##### 3.01 INSTALLATION

- A. Perform work in accordance with sealant manufacturer's requirements for preparation of surfaces and material installation instructions.
- B. Install bond breaker where joint backing is not used.
- C. Install sealant free of air pockets, foreign embedded matter, ridges, and sags.
- D. Apply sealant within recommended application temperature ranges. Consult manufacturer when sealant cannot be applied within these temperature ranges.
- E. Tool joints concave.

##### 3.02 SCHEDULE

- A. Work, generally, shall be polyurethane sealants and work to be painted with non-moving joints shall be acrylic sealants.

END OF SECTION

## SECTION 09-9000

### WOOD FINISH AND STAIN

#### PART 1 GENERAL

##### 1.01 SECTION INCLUDES

- A. Surface preparation.
- B. Field application of stains.
- C. Field Application of paint ( structural connection plates)
- D. Scope: Finish all exterior surfaces exposed to view, unless fully factory-finished

##### 1.02 SUBMITTALS

- A. Product Data: Provide complete list of all products to be used, with the following information for each:
  - 1. Manufacturer's name, product name and/or catalog number.
- B. Samples: Submit one stained sample, illustrating selected colors and textures for each color and system selected with specified coats cascaded. Submit on wood sample - same as existing wood, 3x8 inch in size.

##### 1.03 QUALITY ASSURANCE

- A. Applicator Qualifications: Company specializing in performing the type of work specified with minimum 3 years experience.

##### 1.04 MOCK-UP

- A. Provide a mock up of the cleaning of wood structure. Clean one post for review and approval. Apply stain and have approval by owner before proceeding.

##### 1.05 FIELD CONDITIONS

- A. Do not apply materials when surface and ambient temperatures are outside the temperature ranges required by the paint product manufacturer.
- B. Follow manufacturer's recommended procedures for producing best results, including testing of substrates, moisture in substrates, and humidity and temperature limitations.

#### PART 2 PRODUCTS

##### 2.01 MANUFACTURERS

- A. Wood Cleaner Stains and Paint:
  - 1. Sherwin-Williams Company: [www.sherwin-williams.com](http://www.sherwin-williams.com).
    - a. Wood Stain shall be Woodscapes Semi-Transparent Polyurethane stain.
    - b. Paint for steel connection plates shall be industrial enamel.
  - 2. Wood Stain Cleaner/Stripper shall be one of the following or equal as submitted for approval:
    - a. Gemini Restore-A- Deck.
    - b. Defy Wood Deck Cleaner.
    - c. HD80 Deck Stripper.
  - 3.
- B. Other manufacturers acceptable with equal products shall be:
  - 1. Benjamin Moore
  - 2. Cabot
  - 3. Olympic

4. Sikkens

**PART 3 EXECUTION**

**3.01 PREPARATION**

- A. Clean surfaces thoroughly and correct defects prior to coating application.
- B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.
- C. Remove or mask surface appurtenances, including electrical plates, hardware, light fixture trim, escutcheons, and fittings, prior to preparing surfaces or finishing.

**3.02 APPLICATION**

- A. Apply products in accordance with manufacturer's instructions.
- B. Do not apply finishes to surfaces that are not dry. Allow applied coats to dry before next coat is applied.
- C. Apply each coat to uniform appearance.
- D. Wood to Receive Transparent Finishes: Tint fillers to match wood. Work fillers into the grain before set. Wipe excess from surface.
- E. Reinstall electrical cover plates, hardware, light fixture trim, escutcheons, and fittings removed prior to finishing.

**END OF SECTION**

**Appendix Photos for  
Task 1: Miller Park Pavilions**



Photo 1.JPG



Photo 2.jpg



Photo 3.JPG



Photo 4.jpg



Photo 5.jpg

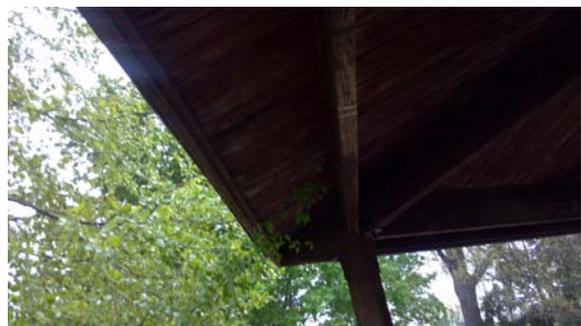


Photo 6.jpg

**Appendix Photos for  
Task 1: Miller Park Pavilions**



Photo 7.jpg



Photo 8.jpg



Photo 9.JPG



Photo 10.JPG



Photo 11.JPG



Photo 12.JPG

**Appendix Photos for  
Task 1: Miller Park Pavilions**



Photo 13.jpg



Photo 14.JPG



Photo 15.JPG



Photo 16.JPG



Photo 17.jpg



Photo 18.jpg

**Appendix Photos for  
Task 1: Miller Park Pavilions**



Photo 19.jpg



Photo 20.JPG



Photo 21.JPG



Photo 22.jpg



Photo 23.jpg



Photo 24.jpg

**Appendix Photos for  
Task 1: Miller Park Pavilions**



Photo 25.jpg

# ROOF REPLACEMENT & GENERAL REPAIRS FOR

## TASK 1: MILLER PARK PAVILIONS

1200 PARK AVENUE LYNCHBURG, VIRGINIA 24501

LYNCHBURG CITY BUILDING NO. PSMP1 (LARGER PAVILION)  
PSMP2 (SMALLER PAVILION)

### ARCHITECT

CRADDOCK CUNNINGHAM  
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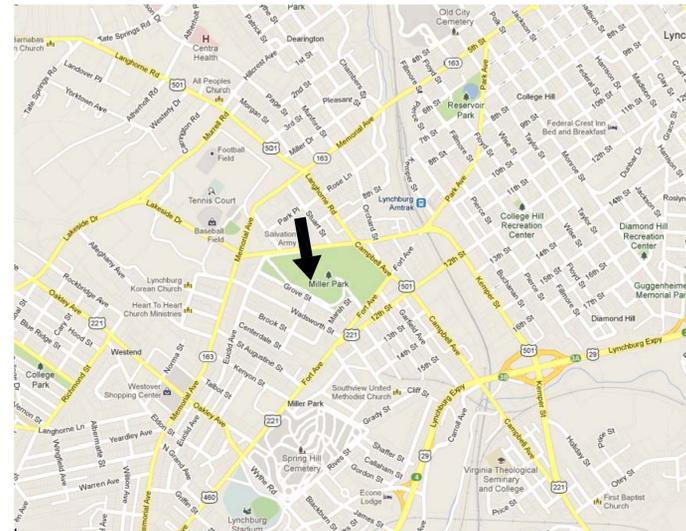
### OWNER

CITY OF LYNCHBURG, VA  
PUBLIC WORKS DEPARTMENT

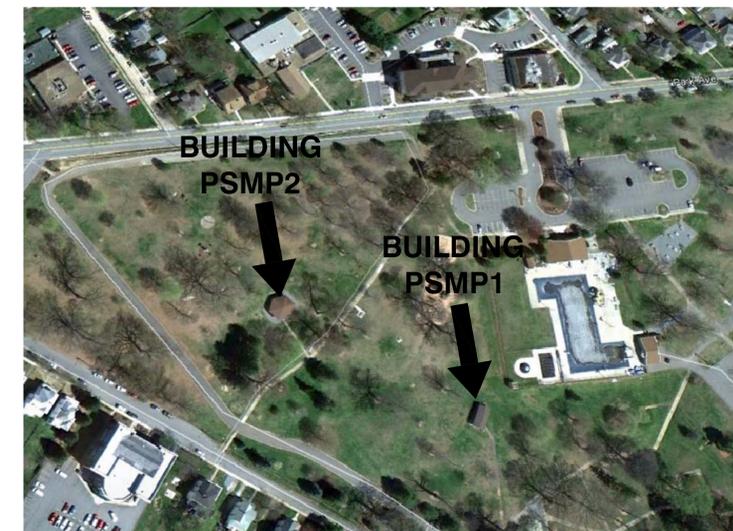
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### DRAWING LIST

CS1.1 Cover Sheet  
A1.1 Roof Plan and Details



VICINITY MAP



SITE MAP

### ABBREVIATIONS

AB ANCHOR BOLT	DET DETAIL(ED)	GRG GRATING	LLV LONG LEG VERTICAL	PLYD PLYWOOD	STC SOUND TRANSMISSION COEFFICIENT
ABV ABOVE	DIA DIAMETER	GWB GYPSUM WALLBOARD	LOC LOCATION	PNLG PANELING	STD STANDARD
ACST ACOUSTIC	DIAG DIAGONAL, DIAGRAM	GYP GYPSUM	LONG LONGITUDINAL	PR PAIR	STL STEEL
ACT ACOUSTICAL CEILING TILE	DIM DIMENSION	H HEIGHT, HIGH	LPT LOW POINT	PSF POUNDS PER SQUARE FOOT	STO STORAGE
AFI ABOVE FINISHED FLOOR	DK DECK	HB HOSE BIBB	MACH MACHINE	PSI POUNDS PER SQUARE INCH	STRUCT STRUCTURAL
AGGR AGGREGATE	DN DOWN	HED HARDWOOD	MAS MASONRY	PT PRESSURE TREATED, POINT, POINT OF TANG.	SUSP (SUSPENDED)
AHR ANCHOR	DGH DOOR OPENING HEIGHT	HC HANDICAPPED	MATL MATERIAL	FTN PARTITION	SYM SYMMETRICAL
AL ALUMINUM	DON DOOR OPENING WIDTH	HDN HARDWARE	MAX MAXIMUM	FVC POLYVINYL CHLORIDE, POINT OF VERTICAL CURVE	SYS SYSTEM
APC ARCHITECTURAL PRECAST	DP DAMPROOFING	HWD HARDWOOD	MCT MARMOLEUM COMPOSITE TILE	GT QUARRY TILE	TEL TELEPHONE
APPROX APPROXIMATE	DR DOOR	HM HOLLOW METAL	MDF MEDIUM DENSITY FIBERBOARD	R RADIUS, REACTION, RISER, RESISTANCE	T&G TONGUE AND GROOVE
ARCH ARCHITECTURAL	DS DOWNSPOUT	HMD HOLLOW METAL DOOR	MECH MECHANICAL	RA RETURN AIR	THK THRESHOLD
AVG AVERAGE	DWG DRAWING	HMF HOLLOW METAL FRAME	MEZZ MEZZANINE	RESIL RESILIENT ATHLETIC FLOORING	THR THRESHOLD
BD BOARD	EA EACH	HOR HORIZONTAL	MFR MANUFACTURER	RCP REFLECTED CEILING PLAN	TOS TOP OF STEEL
BET BETWEEN	EIFS EXTERIOR INSULATION FINISH SYSTEM	HPT HIGH POINT	MIN MINIMUM	R&PT RECEPTACLE(S)	TOT TOTAL
BLDG BUILDING	EJ EXPANSION JOINT	HR HANDRAIL	MISC MISCELLANEOUS	RD ROOF DRAIN	TRD TREAD
BLK BLOCKING	EL ELEVATION	HT HEIGHT	MO MASONRY OPENING	REF REFERENCE	TRD TREAD
BM BEAM	ELEC ELECTRICAL	HVAC HEATING, VENTILATING & AIR CONDITIONING	MOH MASONRY OPENING HEIGHT	REINF REINFORCEMENT( ) (ING)	T&G TONGUE AND GROOVE
BOT BOTTOM	ELEV ELEVATION, ELEVATION	HW HOT WATER	MOUNT MOUNT	REQD REQUIRED	T&G TONGUE AND GROOVE
BRG BEARING	ENCL ENCLOSE(URE)	ID INSIDE DIAMETER	MUL MULLION	R&PT RECEPTACLE(S)	TOT TOTAL
BUR BUILT-UP ROOF(ING)	EQ EQUAL	IN INCH	MUL MULLION	RET RETURN	TRD TREAD
C/C CENTER TO CENTER	EGPT EQUIPMENT	INCL INCLUSIVE	MNP MEMBRANE WATERPROOFING	REV REVERSE ACTING, REVISED, REVISION	T&G TONGUE AND GROOVE
CIP CAST-IN-PLACE, CAST IRON PIPE	ENG ELECTRIC WATER COOLER	INSTL INSTAL(ED)	N NORTH	RF RETURN FAN, ROOF	T&G TONGUE AND GROOVE
CJ CONTROL JOINT	EXH EXHAUST	INSUL INSULATE(ED) (ING) (ION)	NO NOT IN CONTRACT	RGD RETURN GRILLE	T&G TONGUE AND GROOVE
CL CENTER LINE	EXT EXPOSED	INT INTERIOR	NO NUMBER	RM ROOM	T&G TONGUE AND GROOVE
CFS COLD FORMED STEEL	EXP EXPOSED	INTMD INTERMEDIATE	NOM NOMINAL	RO ROUGH OPENING	T&G TONGUE AND GROOVE
CFMF COLD FORMED METAL FRAMING	EXPN EXPANSION	ISOL ISOLATION	NST NONSLIP TREAD	RJ ROLL UP	T&G TONGUE AND GROOVE
CLG CEILING	EXT EXTERIOR	JAN JANITOR	NTS NOT TO SCALE	S SOLID, SOUTH, SWITCH	T&G TONGUE AND GROOVE
CLR CLEAR	F&N FLASHING & NEEPS	JT JOINT(S), POWER TRANSMITTER	OAH OVERALL HEIGHT	SA STATUS ALARM, SUPPLY AIR	T&G TONGUE AND GROOVE
CMU CONCRETE MASONRY UNIT	FD FLOOR DRAIN	KOP KNOCKOUT PANEL	OC ON CENTER	SCHD SCHEDULE	T&G TONGUE AND GROOVE
COL COLUMN	F/F FACE TO FACE	LAB LABORATORY	OD OUTSIDE DIAMETER	SECT SECTION	T&G TONGUE AND GROOVE
COMP COMPOSITE	FIN FINISH(ED)	LAM LAMINATE	OFI OWNER FURNISHED CONTRACTOR INSTALLED	SF SQUARE FEET (FOOT)	T&G TONGUE AND GROOVE
CONC CONCRETE, CONCENTRATED	FL FLOOR	LAV LAVATORY	OFF OFFICE	SGR STRUCTURAL GLAZED FACING UNITS	T&G TONGUE AND GROOVE
CONN CONNECT(ED), CONNECTION	FRP FIBERGLASS REINFORCED POLYESTER	LB POUND	OH OVERHEAD	SH SHEET	T&G TONGUE AND GROOVE
CONSTR CONSTRUCTION	FT FOOT(FEET)	LF LINEAR FOOT	OPN OPENING	SIM SIMILAR	T&G TONGUE AND GROOVE
CONT CONTINUATION, CONTINUOUS, CONTROL	FRT FIRE RETARDANT TREATED	LG LENGTH, LONG	OPP OPPOSITE	SNT SEALANT	T&G TONGUE AND GROOVE
CONTR CONTRACT, CONTRACTOR	FTG FOOTING	LIN LINEAR	O/O OUT TO OUT	SPEC SPECIFICATION(S)	T&G TONGUE AND GROOVE
COORD COORDINATE	FUT FUTURE	LL LIVE LOAD	PI PERIMETER INSULATION	SPEI SPRAY POLYURETHANE FOAM INSULATION	T&G TONGUE AND GROOVE
CORR CORRIDOR, CORRUGATED	GA GAGE	LLH LONG LEG HORIZONTAL	PL PLATE	SPM SINGLE PLY MEMBRANE	T&G TONGUE AND GROOVE
CT CERAMIC TILE	GAL GALLON	LLH LONG LEG HORIZONTAL	PLM PLASTIC LAMINATE	SQ SQUARE	T&G TONGUE AND GROOVE
CTNG CENTER	GALV GALVANIZED	LLH LONG LEG HORIZONTAL	PLAS PLASTER	ST STAINLESS STEEL	T&G TONGUE AND GROOVE
CTR COUNTERSINK	GL GLASS				
CTSK DEPTH, DEEP					
DBL DOUBLE					
DEPT DEPARTMENT					

### SYMBOL LEGEND

	PRE CAST ARCHITECTURAL CONCRETE "APC"		FINISH WOOD
	GYPSUM WALLBOARD		PLYWOOD
	BRICK OR MASONRY VENEER		CONCRETE
	CONCRETE MASONRY UNITS "CMU"		CRUSHED STONE BASE MATERIAL
	RIGID INSULATION		EARTH
	BATT INSULATION		STEEL
	COLUMN TAG		ELEV. NO. ELEVATION REFERENCE SYMBOL SHOWN ON THIS DWG
	ELEVATION MARKER		DETAIL NO. DETAIL REFERENCE SYMBOL SHOWN ON THIS DWG
	WALL TYPE TAG		SECTION NO. SECTION REFERENCE SYMBOL SHOWN ON THIS DWG
	GENERAL NOTE TAG		INTERIOR ELEVATION MARKER ELEVATION SHOWN ON THIS SHEET
	LOUVER TAG		FINISH SCHEDULE TAG
	WINDOW TAG		SECTION NO. SECTION REFERENCE SYMBOL 2 USED ON INT. ELEVATION WITH REMARKS IN SEVERAL SECTIONS CUT FOUND ON A COMMON SHEET. SHEET NUMBER NOTED WITH SECTION DETAILS.
	DOOR TAG		
	LOUVER TAG		
	WINDOW TAG		
	INTERIOR ELEVATION MARKER		
	FINISH SCHEDULE TAG		



WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL TAKE PRECEDENCE OVER SCALED DIMENSIONS. CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND THIS OFFICE MUST BE NOTIFIED OF ANY VARIATION FROM THE DIMENSIONS AND CONDITIONS SHOWN BY THESE DRAWINGS.

DESIGNED: MWS  
DRAWN: TCC  
CHECKED: MWS  
DATE: 2013-05-21  
REVISIONS:

COVER SHEET

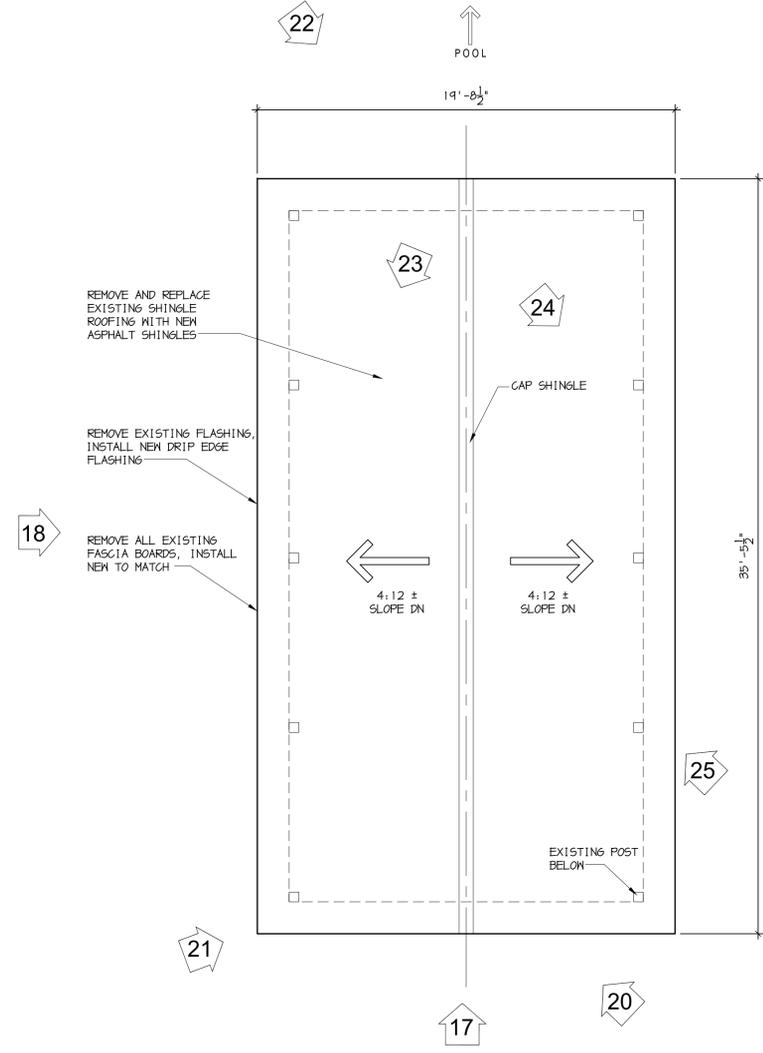
CS1.1

**LEGEND**

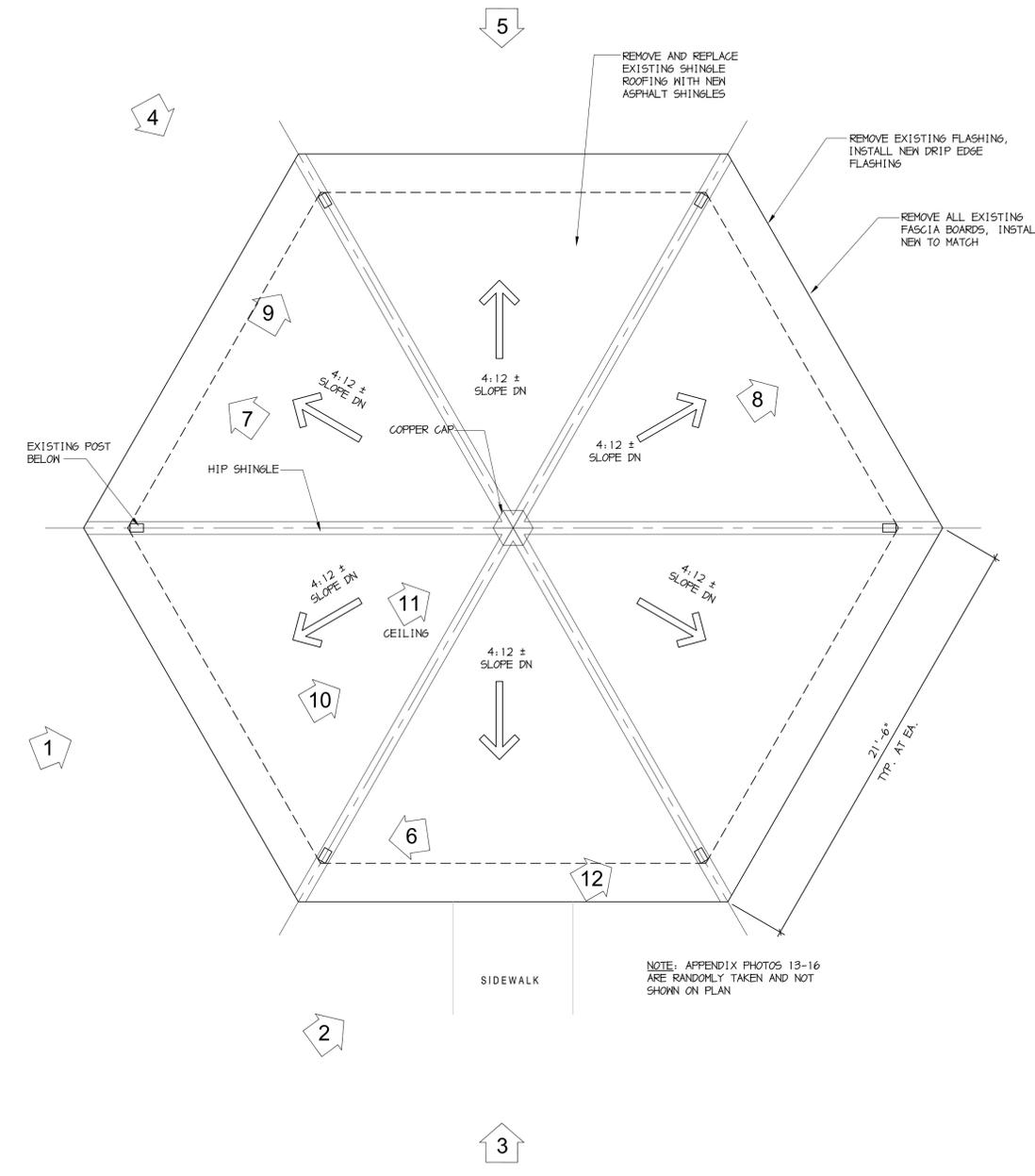
-  ROOF SLOPE
-  PHOTO REFERENCE

**GENERAL NOTE**

1. ALL DIMENSIONS ARE TAKEN LEVEL, NOT ON SLOPE OF ROOF. CONTRACTOR TO BE RESPONSIBLE FOR ALL QUANTITIES OF MATERIALS.
2. CLEAN ALL WOOD AND STAIN ENTIRE STRUCTURE.



**2**  
A1.1  
ROOF PLAN - PAVILION NO. PSMP1  
1/8"=1'-0"



**1**  
A1.1  
ROOF PLAN - PAVILION NO. PSMP2  
1/8"=1'-0"



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DRAWN: TCC  
CHECKED: MWS  
DATE: 2013-05-21  
REVISIONS:

**ROOF PLAN AND DETAILS**

**A1.1**