



HISTORIC PRESERVATION COMMISSION

Isiah Leggett
County Executive

William Kirwan
Chairman

Date: May 24, 2017

MEMORANDUM

TO: Diane Schwartz Jones
Department of Permitting Services

FROM: Dan Bruechert
Historic Preservation Section
Maryland-National Capital Park & Planning Commission

SUBJECT: Historic Area Work Permit # 832238: Solar Panel Installation

The Montgomery County Historic Preservation Commission (HPC) has reviewed the attached application for a Historic Area Work Permit (HAWP). This application was **Approved** at the May 9, 2018 Historic Preservation Commission meeting.

The HPC staff has reviewed and stamped the attached construction drawings.

THE BUILDING PERMIT FOR THIS PROJECT SHALL BE ISSUED CONDITIONAL UPON ADHERENCE TO THE ABOVE APPROVED HAWP CONDITIONS AND MAY REQUIRE APPROVAL BY DPS OR ANOTHER LOCAL OFFICE BEFORE WORK CAN BEGIN.

Applicant: Thomas LaLonde
Address: fa., Takoma Park

This HAWP approval is subject to the general condition that the applicant will obtain all other applicable Montgomery County or local government agency permits. After the issuance of these permits, the applicant must contact this Historic Preservation Office if any changes to the approved plan are made. Once work is complete the applicant will contact Dan Bruechert at 301.563.3408 or dan.bruechert@montgomeryplanning.org to schedule a follow-up site visit.



General Notes



Solar Energy World
Because Tomorrow Matters
Solar Energy World LLC.
5881 Main Street
Elkridge, MD 21075
(888) 487-3233

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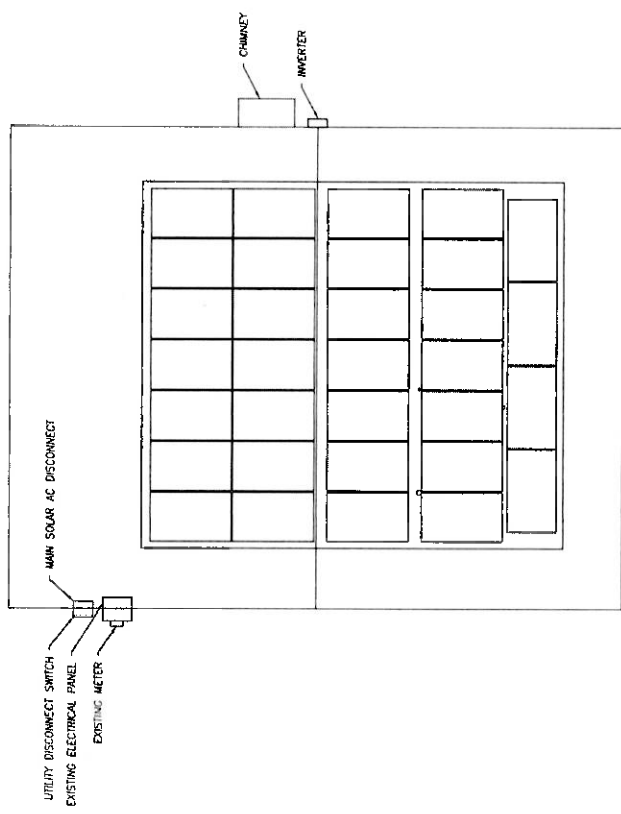
HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A FULLY LICENSED PROFESSIONAL ENGINEER IN THE STATE OF MARYLAND, LICENSE NO. 28311 EXPIRES 01/31/2018. I AM NOT PROVIDING PROFESSIONAL SERVICE FOR STRUCTURES ONLY.

Project Name and Address

Tom Lalonde
7112 Sycamore Ave.
Takoma Park, MD 20912
9.6 KW

Scale: AS NOTED
Date: 3/23/18
Sheet: E001

APPROVED
Historic Preservation Commission
W/K



EQUIPMENT LOCATION PLAN

Scale: NTS

NOTE:
EQUIPMENT LOCATION PLAN IS APPROXIMATE. EXACT LOCATION
TO BE VERIFIED WITH INSTALLATION CREW AND HOME OWNER
AT THE TIME OF INSTALLATION.



SolartenergyWorld
Because Tomorrow Matters
Solar Energy World, LLC.
5881 Math Street
Elk Grove, MD 21075
(888) 487-3233

By certifying to the company, Solar Energy World, LLC, the undersigned hereby certifies that the work shown on the drawings of Solar Energy World, LLC, has been prepared by a duly licensed professional engineer and that the undersigned is a duly licensed professional engineer in the State of Maryland. The undersigned hereby certifies that the work shown on the drawings of Solar Energy World, LLC, has been prepared by a duly licensed professional engineer in the State of Maryland.



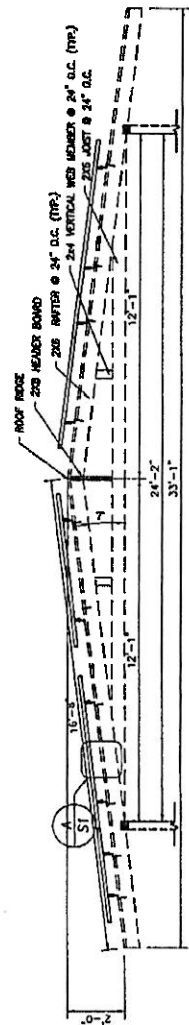
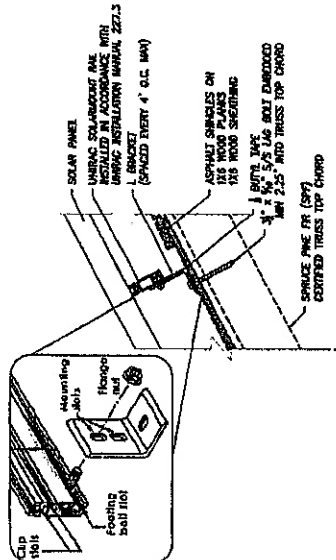
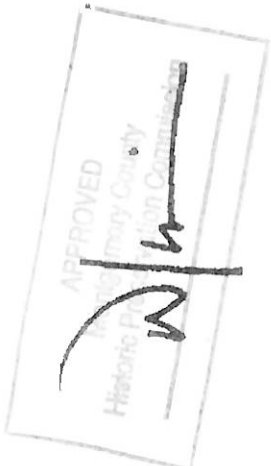
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I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER IN THE STATE OF MARYLAND. MY LICENSE NUMBER IS NO. 2831. EXPIRATION DATE: SEPTEMBER 05, 2018. (STAMPED AND SIGNED FOR STRUCTURE S ONLY)

Tom Lalonde
7112 Sycamore Ave,
Takoma Park, MD 20912
8.6 KW

MDM/TML
3/23/18
AS NOTED

S001

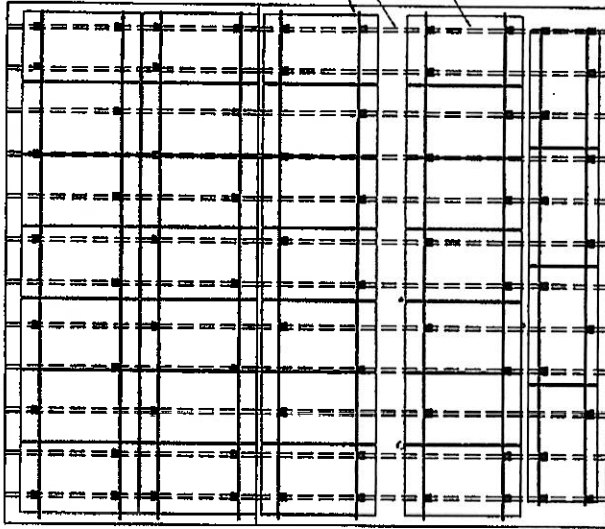


STRUCTURAL SECTION S1

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

15

- NOTES:**
- ALL WORK SHALL COMPLY WITH REQUIREMENTS OF INTERNATIONAL RESIDENTIAL CODE (IRC 2015), LOADING CODE (ASCE 7-R), WOOD DESIGN CODES (NDS 2015) AND LOCAL REQUIREMENTS.
 - LOAD CRITERIA PER:
 - EXPOSURE CATEGORY "B"
 - GROUND SNOW LOAD, P_s = 30 PSF
 - RISK CATEGORY "II"
 - ULTIMATE DESIGN WIND SPEED = 115 MPH
 - SOLAR PANELS AND MOUNTING SYSTEMS SHALL BE INSTALLED PER MANUFACTURERS RECOMMENDATION.
 - FOLLOW ALL LOCAL AND FEDERAL SAFETY REQUIREMENTS.



APPROVED
 Montgomery County
 Historic Landmark Commission

<p>General Notes</p> <p>SolarEnergyWorld Because Tomorrow Matters</p> <p>Solar Energy World LLC 8501 Niles Street Elkridge, MD 21075 (888) 497-9233</p>	<p>This drawing is the property of Solar Energy World Inc. It is not to be used, reproduced, copied, or transmitted in any form or by any means without the written permission of Solar Energy World Inc. The contractor shall be responsible for obtaining the necessary permits and licenses for this project. The contractor shall be responsible for all construction and safety requirements. The contractor shall be responsible for all construction and safety requirements. The contractor shall be responsible for all construction and safety requirements.</p>	<p>DocuSigned by:</p> <p>F0FE63F591F445B...</p>	<p>I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A QUALIFIED PROFESSIONAL ENGINEER, ARCHITECT, OR LANDSCAPE ARCHITECT UNDER THE PUBLIC SERVICE OF MARYLAND LICENSE NO. 22331. EMPLOYER IS MARYLAND PROFESSIONAL ENGINEERING BOARD. THIS DRAWING IS FOR STRUCTURES ONLY.</p>	<p>Tom Lalonde 7112 Sycamore Ave. Takoma Park, MD 20912 9.6 KW</p>	<p>AS NOTED</p> <h1>S002</h1> <p>MD/MTML 5/23/18</p>
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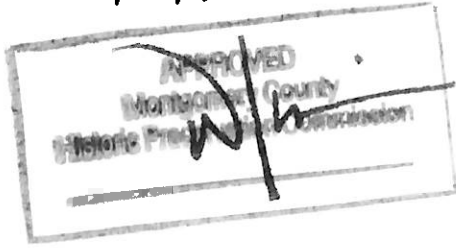
- NOTES:**
1. UNIRAC SOLARADJACENT RAIL SHALL BE INSTALLED IN ACCORDANCE WITH UNIRAC INSTALLATION MANUAL 227.3.
 2. 1" FEET SHALL BE SPACED AT A MAXIMUM OF 4' O/C.
 3. AN "L" FOOT SHALL BE PLACED WITHIN 20% OF MAXIMUM "L" FOOT SPACING (1" MAX) AT THE CAMBERED END OF EACH SECTION OF RAIL.
 4. PROPOSED BALLAST BLOCK
 SIZE = 2.2'x3'x18"
 WEIGHT = 14.5LBS

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SOLAR PANEL FOOTING PLAN

Scale: 1/8" = 1'-0"

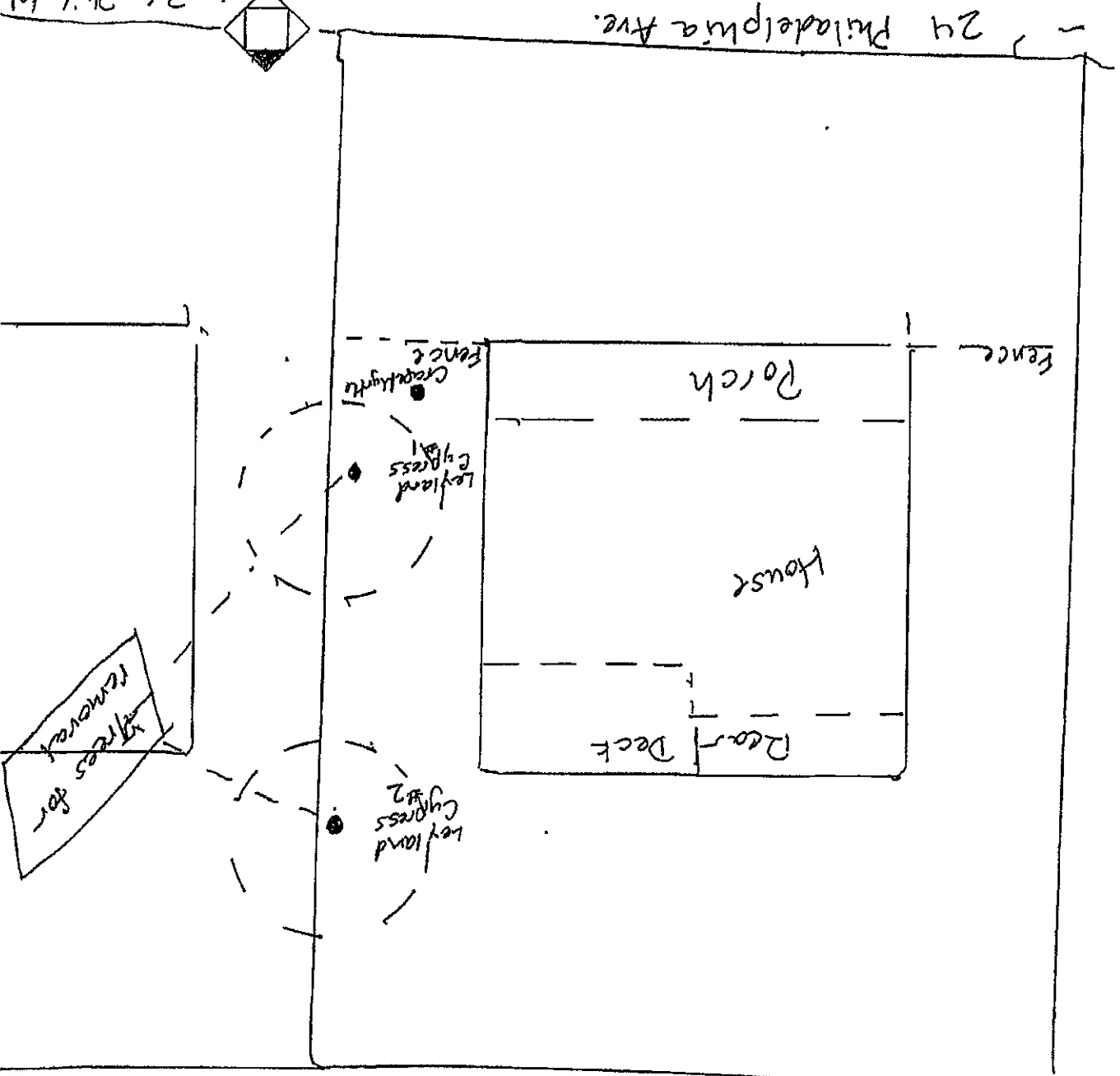
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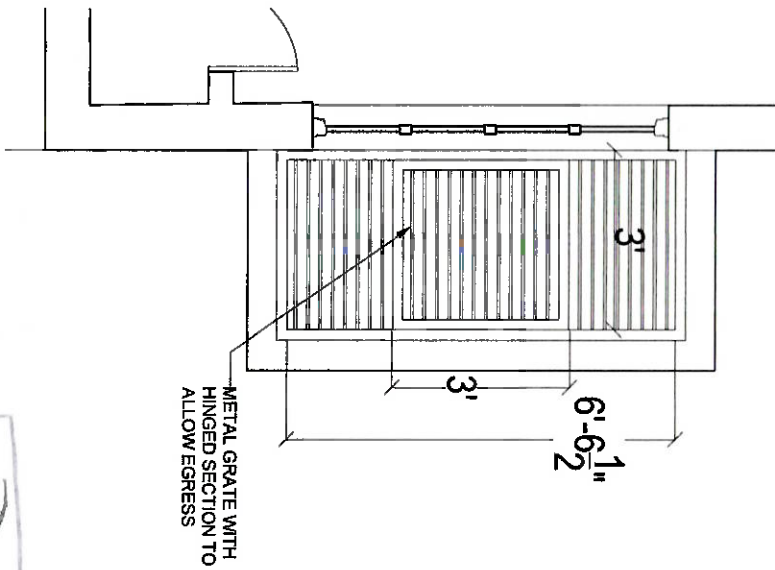
Applicant: Dana Martin

Page: 5 of 12 (9)

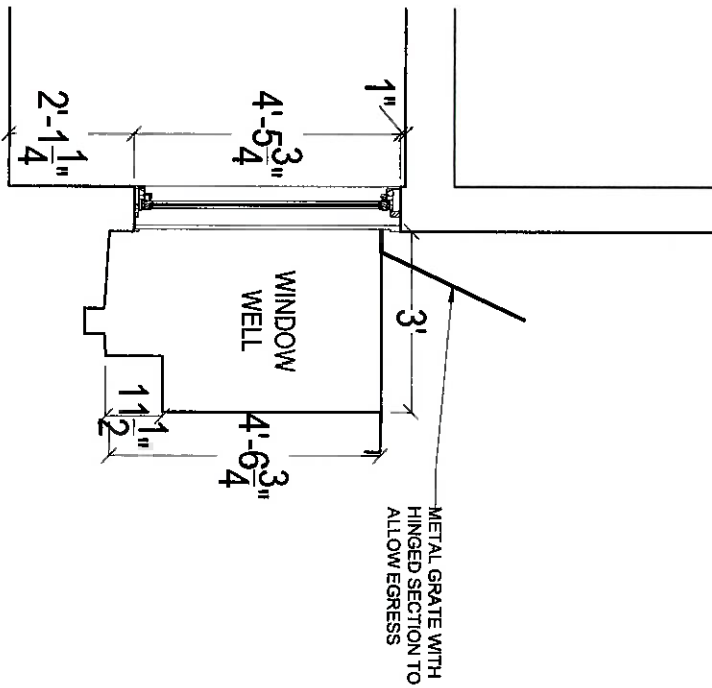
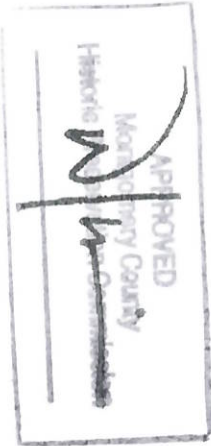
Shade portion to indicate North (approx) 26 Philadelphia Ave.



Site Plan 2 Trees for Proposed Renovation at 24 Philadelphia Ave., Takoma Park, MD



1 PROPOSED PLAN



2 PROPOSED SECTION

<p>CHRISTIAN ZAPATKA ARCHITECT, PLLC 1656 33rd STREET NW WASHINGTON DC 20007 202 323 2735</p> <p>© DRAWING PROTECTED BY COPYRIGHT. THIS DRAWING CANNOT BE DISTRIBUTED OR REPRODUCED WITHOUT WRITTEN PERMISSION FROM CHRISTIAN ZAPATKA ARCHITECT, PLLC</p>	
<p>PROJECT FISHERMAN RESIDENCE 53 ORCHARD STREET GREENTOWN, MD</p>	<p>DRAWING TITLE WINDOW WELL METAL GRILLE COVER DETAILS</p>
<p>DATE: APRIL 30, 2018 SCALE: 1/4" = 1'-0"</p>	<p>PERMIT</p>
<p>A011</p>	

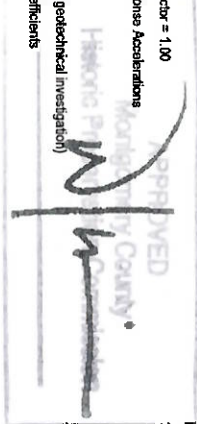
GENERAL STRUCTURAL NOTES

PART 1 - GENERAL REQUIREMENTS AND DESIGN CRITERIA

- 1.1 **SPECIFICATIONS**
 - A. The work shown on these drawings addresses structural information only. The structural documents include these S-series drawings and general notes. There are no technical specifications in addition to these general notes.
- 1.2 **ELEVATIONS & DIMENSIONS**
 - A. All elevations and dimensions shown for new construction are based on the architectural drawings. Coordinate all elevations and dimensions before proceeding with construction.
- 1.3 **BUILDING CODES AND STANDARDS**
 - A. The following building codes and standards, including all specifications referenced within, shall apply to the design, construction, quality control and safety of all work performed on the project.
 - B. Minimum design loads for buildings and other structures; (ANSI/ASCE 7 - 10, 2010), American Society of Civil Engineers.
 - C. International Residential Code - 2015; International Code Council, including local jurisdiction amendments.
 - D. Additional codes and STANDARDS FOR DIFFERENT MATERIALS ARE LISTED in the sections that follow.

- 1.4 **DESIGN LOADS**
 - A. Floor Live Loads
 - 1. Live load surcharge 100 psf
 - 1. $P_f = 25$ psf
 - 2. $P_g = 30$ psf
 - B. Snow Load - Plus Drifting and Sliding Where Applicable
 - C. Wind Load Parameters
 - 1. Basic Wind Speed (3-second gust), $V = 115$ mph
 - 2. Risk Category = II
 - 3. Exposure Category: B
 - 4. Internal Pressure Coefficient:
 - a. $GC_p = +4, 0.18$
 - 3. Existing buildings: the scope of work on this project does not change the demand upon nor reduce the resistance provided by the seismic force resisting systems (SFRS) by more than 5%. Based on lab requirements, no evaluation or upgrade of the existing WFRS has been conducted.
 - D. Seismic Load Parameters
 - 1. Risk Category = II
 - 2. Seismic Importance Factor = 1.00
 - 3. Mapped Spectral Response Accelerations
 - a. $S_g = 0.119$
 - b. $S_1 = 0.051$
 - 4. Site Class D (Pending geotechnical investigation)
 - 5. Spectral Response Coefficients
 - a. $S_{ps} = 0.127$
 - b. $S_{p1} = 0.042$
 - 6. Seismic Design Category = B

773 6/7/18



7. Existing buildings: the scope of work on this project does not change the seismic demand upon nor reduce the resistance provided by the seismic force resisting systems (SFRS) by more than 5%. Based on IBCG requirements, no evaluation or upgrade of the existing SFRS has been conducted.

PART 2 - CONSTRUCTION

- 2.1 **GENERAL**
 - A. Unauthorized reproduction of any portion of the structural contract drawings for re-submittal as shop drawings is prohibited. Shop drawings produced in such a manner will be rejected and returned.
 - B. These drawings represent the completed project which has been designed for the weights of materials, for the loads indicated in the design load criteria above. It is the contractor's responsibility to determine allowable construction loads and to provide proper design and construction of false work, staging, bracing, shoring and shoring, etc.
 - C. Developing and implementing job site safety and construction procedures are the sole responsibility of the contractor.
 - D. All costs of investigation and redesign due to contractor mis-location of structural elements or other lack of conformance with the construction documents shall be at the contractor's expense.
 - E. See architectural drawings and specifications for detailed information regarding finishes, waterproofing, etc.

2.2 SHOP DRAWINGS

- A. Shop drawings for all structural elements shown on the contract documents are required to be submitted by the contractor and reviewed by the structural engineer. If a contractor or owner fails to submit the shop drawings, Simpson Gumpertz & Heger Inc. will not be responsible for the structural certification and design of the project.
- B. Shop drawings shall be submitted electronically in portable document format (pdf), a marked-up pdf copy of the shop drawings with the structural engineer's comments will be returned to the contractor.
- C. Allow 10 business days for structural review of shop drawings. This time should be allotted in the contractor's schedule.
- D. Shop drawings shall bear the contractor's stamp of approval which shall constitute certification that they have verified all field measurements, construction criteria, materials and similar data and have checked each drawing for completeness, coordination and compliance with the contract documents.
- E. The contractor shall submit for review, signed and sealed drawings and calculations prepared by a specialty structural engineer registered in the project's jurisdiction for the following assemblies. This review shall be for general conformance with the project's parameters as indicated on the drawings, specifications and general notes. The design of these assemblies is the responsibility of the contractor's engineer who has signed and sealed these drawings and calculations. These submissions shall be made available in conjunction with or prior to the shop drawing for the primary building structure that support these assemblies.

3.1 EXCAVATION:

- 3.2 **FOUNDATION DESIGN PARAMETERS**
 - A. Spread Footings:
 - Window well retaining wall footings shall bear on undisturbed natural soils or properly placed and compacted engineered fill with an allowable bearing pressure of 1500 psf per IRC 2015 Table R401.4.1.
 - B. All foundations shall bear a minimum of 2'-6" below adjacent exterior grade. The contractor shall coordinate these requirements with all underground utilities and other elements; the contractor shall notify the architect and structural engineer in advance of any construction to allow for adjustments.
 - C. Place structural fill where required with approved granular soil placed in 6 in. layers and compacted to 95% density at optimum moisture content as defined by ASTM D-1557, Method D.

PART 3 - FOUNDATIONS / EARTHWORK (GEOTECHNICAL REPORT)

3.1 REFERENCE GEOTECHNICAL REPORT:

- A. Foundations have been designed with an assumed allowable bearing capacity of 1500 psf per IRC 2015 Table R401.4.1. A geotechnical report has not been conducted for this project thus far. The owner has thus accepted the risk of unknown conditions. Prior to placing foundations, the contractor shall have an experienced, qualified geotechnical engineer field verify the bearing observations for most depths and the assumed allowable bearing capacity.
- B. All foundations shall bear a minimum of 2'-6" below adjacent exterior grade. The contractor shall coordinate these requirements with all underground utilities and other elements; the contractor shall notify the architect and structural engineer in advance of any construction to allow for adjustments.
- C. Place structural fill where required with approved granular soil placed in 6 in. layers and compacted to 95% density at optimum moisture content as defined by ASTM D-1557, Method D.

3. Metal Stairs, Ladders and Railings

- a. Designs shall take into account all vertical and lateral loads required by applicable building codes. Where headers or other types of structural members have been designated by the structural engineer of record to support stairs, the connections from the stairs shall be designed so that no eccentric or torsional forces are induced into these members. The contractor shall be responsible for furnishing and installing embeds and hardware as required by the stair design.

2.3 EXISTING CONDITIONS

- A. Existing building information shown is based on the architectural drawings. The contractor shall verify all existing building information shown (dimensions, elevations, etc.) and notify the architect and structural engineer of any discrepancies.
- B. Unless noted or detailed otherwise, new foundations adjacent to existing foundations shall bear at the same elevation.

3,000 psi compressive strength, enabling the members to carry their dead load and anticipated construction loads.

Removal of forms is not permitted until sufficient prestressing has been applied to enable the members to carry their dead load and anticipated construction loads.

Professional Engineer I verify that these documents were prepared or approved by me or under my direct supervision and that I am a duly licensed Professional Engineer in the State of Maryland. License No. 3-022, Expiration Date 03/31/2015



CRISTIAN ZAPATKA ARCHITECT, PLLC 1656 33rd STREET NW WASHINGTON DC 20007 202 333 2735	SIMPSON GUMPERTZ & HEGER Engineering of Structures and Building Enclosures Simpson Gumpertz & Heger Inc. 1321 Street NW, Suite 700 Washington, DC 20004 Tel: 202 462 1100 Fax: 202 462 1101 www.sgh.com	PERMITS DATE: 31 MAY 2018 SCALE: AS NOTED	GENERAL NOTES	SECTIONS
SPRINKLING		FINISHES		FINISHES
FOUNDATION DESIGN PARAMETERS		FOUNDATION DESIGN PARAMETERS		FOUNDATION DESIGN PARAMETERS
EXCAVATION:		EXCAVATION:		EXCAVATION:
EXISTING CONDITIONS		EXISTING CONDITIONS		EXISTING CONDITIONS
SHOP DRAWINGS		SHOP DRAWINGS		SHOP DRAWINGS
GENERAL REQUIREMENTS AND DESIGN CRITERIA		GENERAL REQUIREMENTS AND DESIGN CRITERIA		GENERAL REQUIREMENTS AND DESIGN CRITERIA
GENERAL STRUCTURAL NOTES		GENERAL STRUCTURAL NOTES		GENERAL STRUCTURAL NOTES

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- A. The slope between the lower edges of adjacent foundations shall not exceed 45/30 degrees measured from the horizontal, unless noted or detailed otherwise on the plan. Maintain a 1/2" slope from bottom edge of any excavation.
- B. The contractor shall verify all existing field conditions that may affect the installation of the foundation system as shown prior to starting work.
- C. The contractor shall be responsible for locating and protecting all existing utilities, above and below grade structures, etc., whether indicated or not, that may be affected by the construction process.
- D. Utilities lines shall not be placed through or below foundations without the structural engineer's approval unless detailed otherwise in the plans.

3.4 BACKFILL AGAINST WALLS:

- A. Do not backfill against retaining walls until wall concrete is at full design strength. Backfill with approved material placed in 6 in. layers and compacted to 95% density at optimum moisture content and free of debris as defined by ASTM D-1557, Method D.

3.5 FOUNDATIONS PLACEMENT & PROTECTION:

- A. Do not place foundation concrete in water or on frozen ground. Protect in-place foundations and slabs from frost penetration until the project is complete. Do not use salt or chloride compounds to de-ice the slab.
- B. New footing bearing elevation is to match adjacent existing footing bearing elevation where applicable unless noted or detailed otherwise.
- C. Concrete for foundations shall be placed on the same day subgrade approval is given by the geotechnical engineer.

PART 4 - CONCRETE WORK

4.1 CODES AND STANDARDS:

- A. Building code requirements for reinforced concrete, ACI 318-11, American Concrete Institute.
- B. A/CI manual of concrete practice - parts 1 through 5, American Concrete Institute.

4.2 STANDARD SPECIFICATIONS AND REFERENCE STANDARDS:

- A. Manual of standard practice, "concrete reinforcing steel institute, Institute.
- B. Follow the latest recommendations and specifications of the American Concrete Institute:
 1. ACI 301 Specifications for structural concrete
 2. ACI 302 Concrete floor and slab construction
 3. ACI 304 Measuring, mixing, transporting and placing concrete
 4. ACI 305 Hot weather concreting
 5. ACI 306 Cold weather concreting
 6. ACI 315 Detailing reinforcing steel
 7. ACI 318 General design of forms not otherwise specified
 8. ACI 347 Formwork

4.3 CONCRETE MIX PROPERTIES:

Element (nominal weight unit)	28-day strength	W/C max	Air Content
1. Footings & retaining walls:	4,000 psi	0.55	6%+/-1.5
2. Slab on grade	4,000 psi	0.45	6%+/-1.5

4.4 STEEL REINFORCEMENT:

- A. Deformed reinforcing bars: ASTM A615 GRADE 60
- B. Welded wire reinforcement (wwr): ASTM A497 or A185 (flat sheets only)
- C. Portland Cement: ASTM C150, Type I, II or III
- D. Cement substitutes: ASTM C595, Type I (limit to 50% max of cementitious content by weight)
- E. Aggregates / density: ASTM C33 / 145 pcf - normal weight
- F. Air-entrainment: ASTM C260

4.5 CONCRETE COVER:

- A. Min reinforced concrete
 1. Concrete cast against and permanently exposed to earth: 3 in.
 2. Concrete exposed to earth or weather:
 - a. #6 bar or larger: 2 in.
 - b. #5 bar or smaller: 1 1/2 in.

4.6 GENERAL REQUIREMENTS:

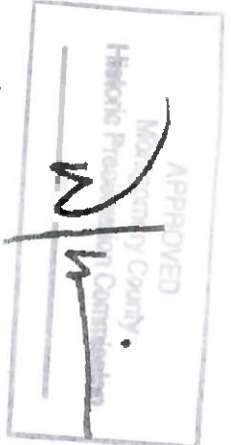
- A. Concrete slab-on-grade shall be 4" thick, reinforced with 6 x 6 - W 2.0 x 2.0 WWR and placed on a 10 mil vapor-retarder over a 4" min. layer of clean, well-graded gravel or crushed stone and properly compacted subgrade.
- B. chamfer all exposed concrete corners, 3/4 in. x 3/4 in. minimum, unless noted otherwise on the architectural drawings.
- C. waterstops: as specified on the architectural drawings, provide continuous waterstops at all horizontal and vertical construction joints in all below grade foundation walls, exterior piers and other pit walls.

4.7 Splicing and placement of reinforcement:

- A. Reinforcement splices are not permitted except as detailed or authorized by the structural engineer. make bars continuous around corners.
- B. Splice welded wire reinforcement two full mesh lengths and wire together.
- C. Reinforcement welding is not permitted.

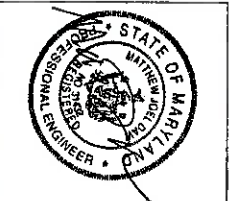
4.8 REINFORCEMENT SHOP DRAWINGS:

- A. Submit for approval, complete bending and placing details of all reinforcement including welded wire reinforcement, indicating position of splices, include accessory drawings.



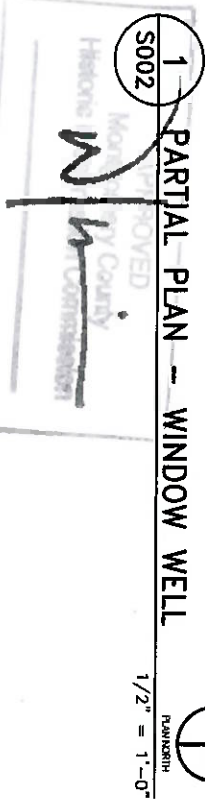
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Professional Certification I certify that these documents were prepared or reviewed by me, and that I am a duly licensed Professional Engineer in the State of Maryland License No. 37422, Expiration Date 12/31/2025

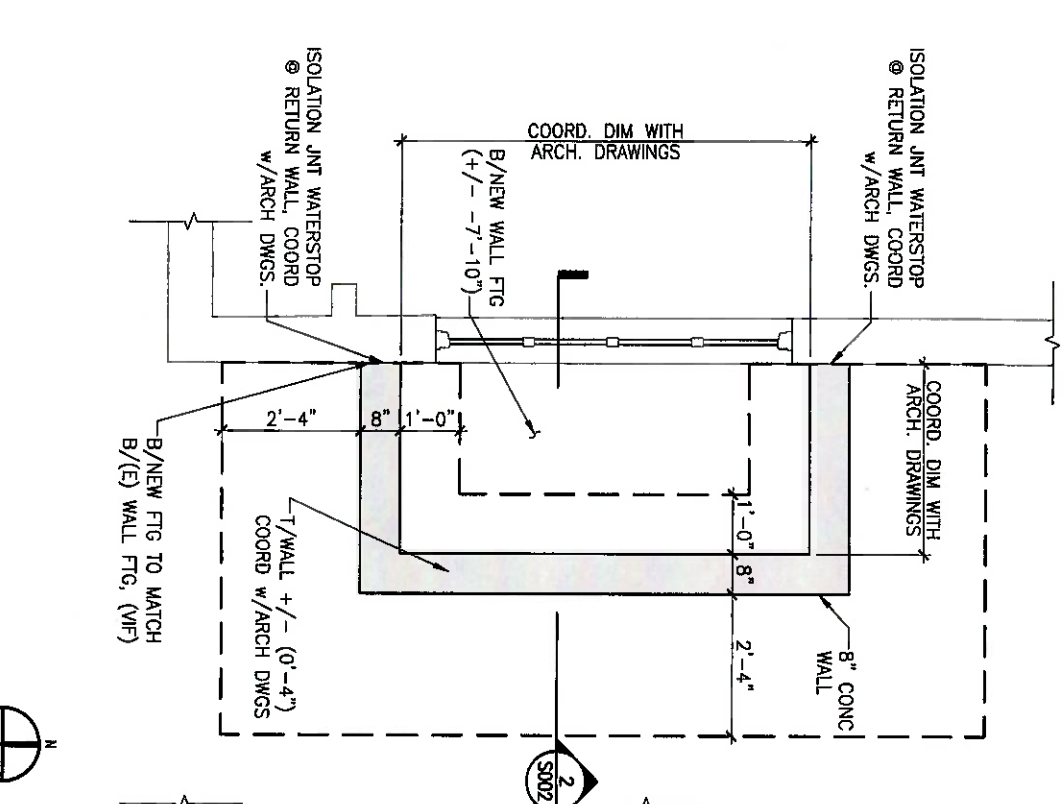


<p>CHRISTIAN ZAPATKA ARCHITECT, PLLC 1056 33rd STREET NW WASHINGTON DC 20007 202 333 2735</p> <p>SIMPSON GUMPERTZ & HEGER Engineering of Structures and Building Enclosures</p> <p><small>Simpson Gumpertz & Heger Inc. 1000 11th Street NW, Suite 900 Washington, DC 20004 Tel: 202 292 2222 Fax: 202 292 2222 www.sgh.com</small></p>	<p>PROJECT # 17298-00</p> <p>PHASE: RESURFACE 50 DIXON STREET DENTON MD 20835</p>	<p>DATE: 31 MAY 2018</p> <p>SCALE: AS NOTED</p> <p>S001</p>
<p>DRAWING TITLE: GENERAL NOTES</p> <p>DESIGNER: SKM</p> <p>DATE: 31 MAY 2018</p> <p>SCALE: AS NOTED</p>		

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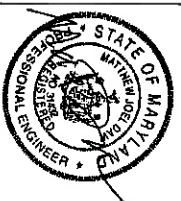


1 PARTIAL PLAN - WINDOW WELL
 S002
 1/2" = 1'-0"



2 SECTION - WINDOW WELL
 S002
 1/2" = 1'-0"

Professional Certification I certify that these documents were prepared or approved by me, and that I am a duly licensed License No. 31422, Expiration Date 12/31/2018



S002	DRAWING TITLE PARTIAL PLAN & SECTION	SHEET NO. S002	PROJECT # 17296.00	CHRISTIAN ZAPATKA ARCHITECT, PLLC 1656 33rd STREET NW WASHINGTON DC 20007 202 333 2735 SIMPSON GUMPERTZ & HEGER Engineering of Structures and Building Enclosures Simpson Gumpertz & Heger Inc. 1825 L Street NW, Suite 110 Washington, DC 20004 Fax: 202.237.4119 Tel: 202.237.4190 www.sgh.com
	SCALE AS NOTED	DATE 31 MAY 2018	PERMIT	Revision DATE BY CHECKED BY

