



ARCHITECTURE

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Notes Consultants

PROFESSIONAL CERTIFICATION  
 This project has been reviewed and approved by me and my firm, as required under laws of the District of Columbia.

License No. 14297  
 Expiration Date: 12/31/21



Project

TONY AND CRYSTAL  
 PULSIRISAROTH  
 RESIDENCE

PROPOSED GARAGE  
 ADDITION,  
 BREEZEWAY AND  
 POOL AREA

14148 HOWARD ROAD  
 DAYTON, MD. 21036

Drawing Title

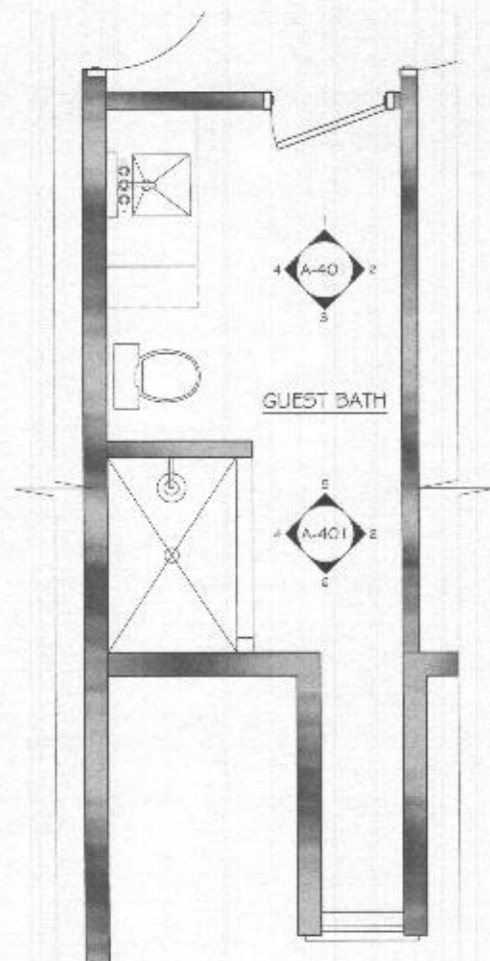
INTERIOR ELEVATIONS

Date	Issue
SEPT. 27, 2021	PERMIT DRAWINGS

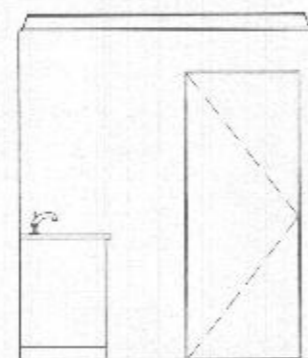
Drawn By \_\_\_\_\_  
 Check By \_\_\_\_\_  
 Job No. \_\_\_\_\_

Sheet No.

A401



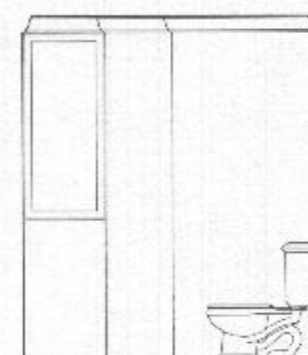
1 GUEST BEDROOM & BATH PLAN  
 (MGV) SCALE: 1/2" = 1'-0"



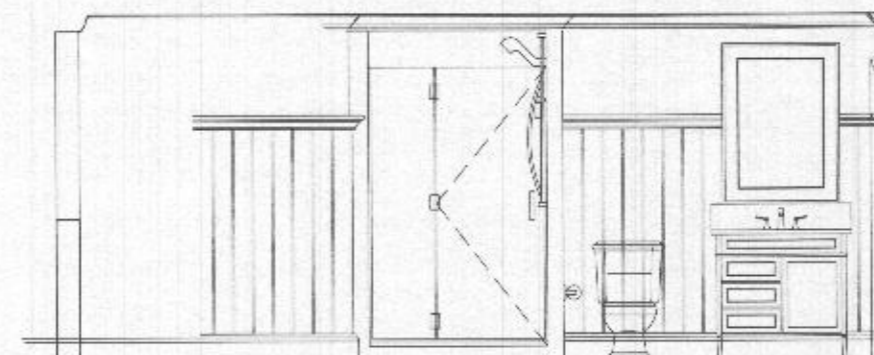
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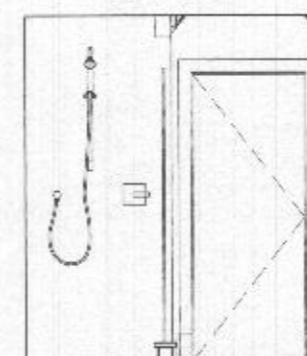
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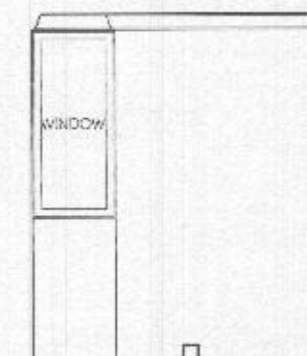
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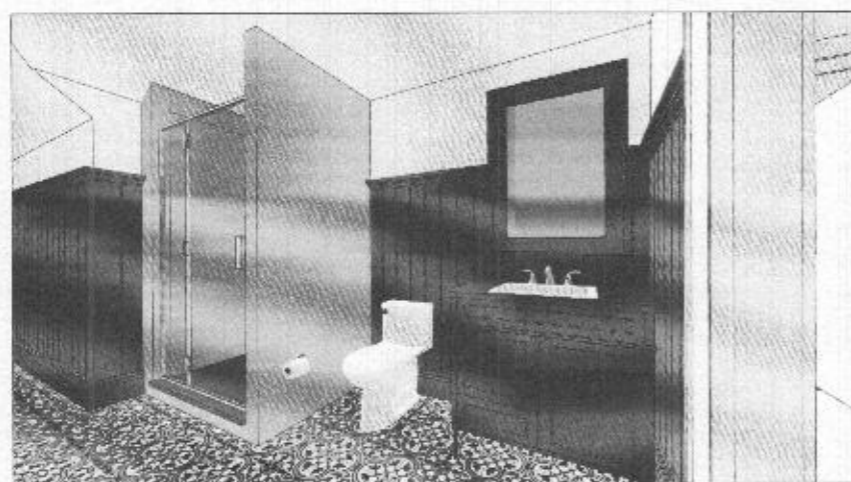
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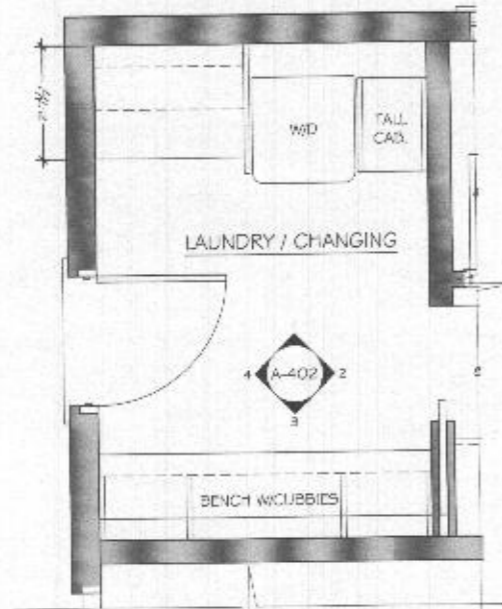


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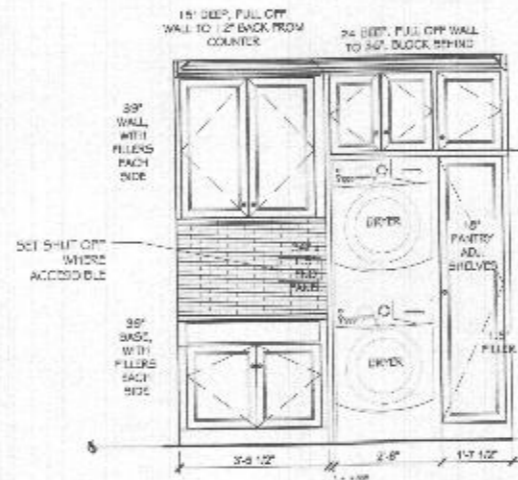


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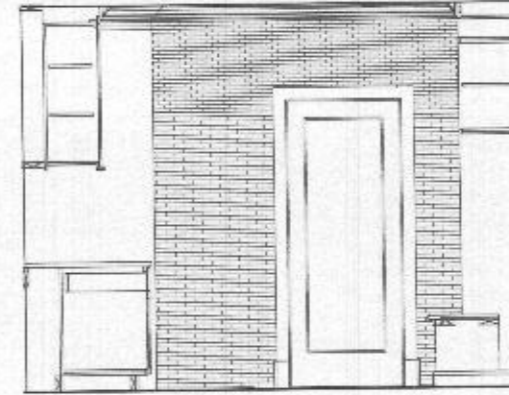




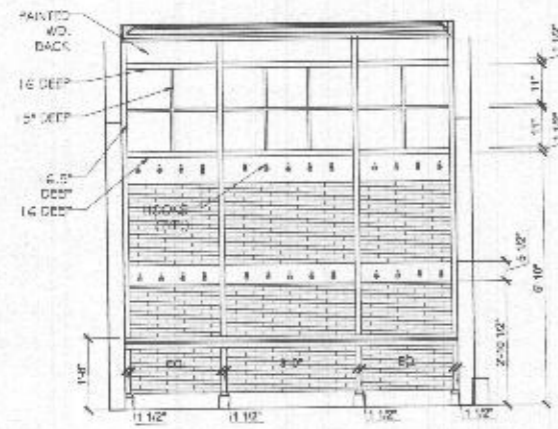
LAUNDRY & CHANGING ROOM PLAN  
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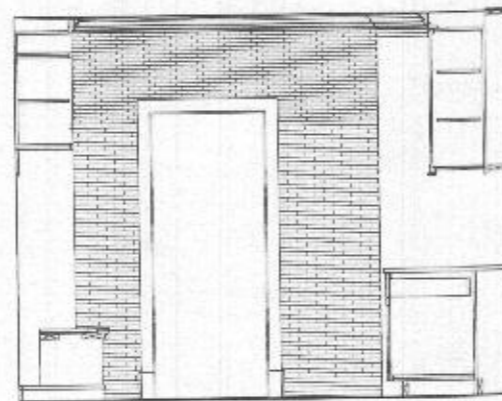
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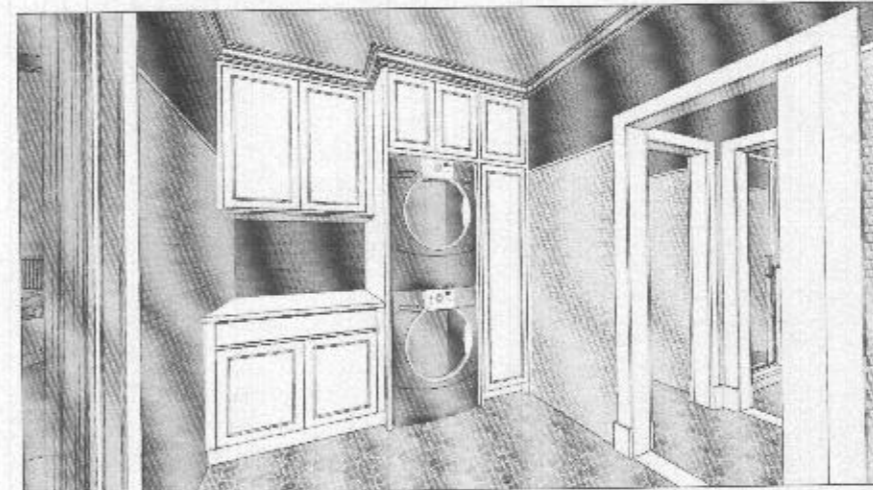
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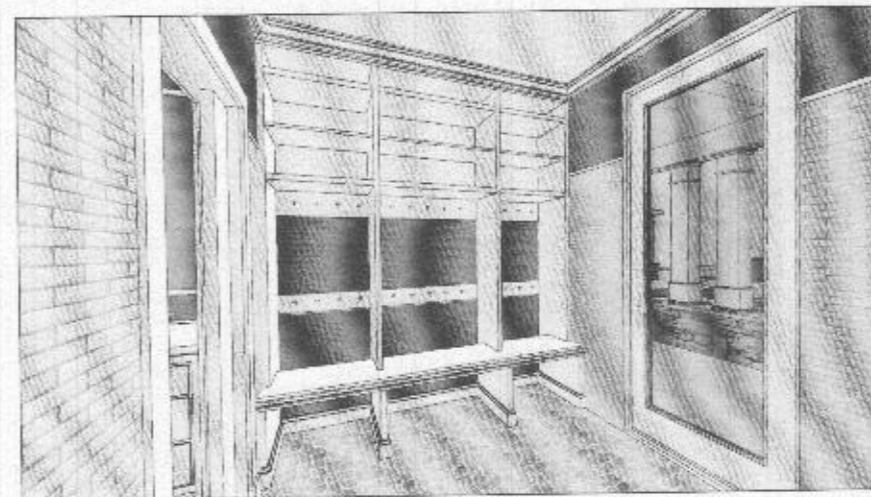
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INT. ELEV. #4 - LAUNDRY  
SCALE: 1/2" = 1'-0"



PERSPECTIVE #1 - LAUNDRY



PERSPECTIVE #3 - LAUNDRY



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PROFESSIONAL CERTIFICATION  
I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed and active member of the State of Virginia.

License No. 1407  
Expiration Date 07/31/2021



Project

TONY AND CRYSTAL  
PULSIRISAROTH  
RESIDENCE

PROPOSED GARAGE  
ADDITION,  
BREZZEWAY AND  
POOL AREA

14148 HOWARD ROAD  
DAYTON, MD. 21036

Drawing Title  
INTERIOR ELEVATIONS

Date Issue  
SEPT. 27, 2021 PERMIT DRAWINGS

Drawn By  
Checked By  
Job No.

Sheet No.

A402



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PROFESSIONAL CERTIFICATION  
 I hereby certify that these drawings were prepared or approved by me, and that I am duly licensed and active in the State of Maryland.

License No. 14007  
 Expiration Date 07/31/2023



Project

TONY AND CRYSTAL  
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Drawing Title

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Date

SEPT. 27, 2021

Issue

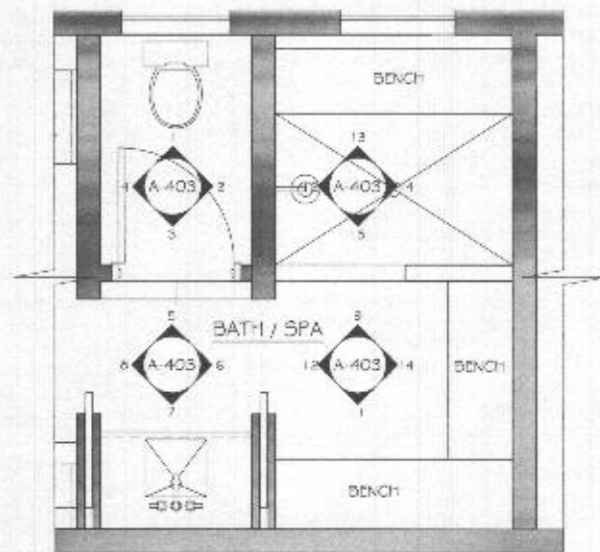
PERMIT DRAWINGS

Drawn By  
 Check By  
 Job No.

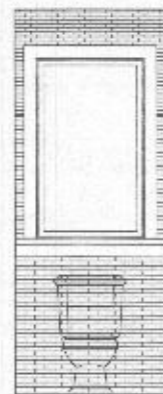
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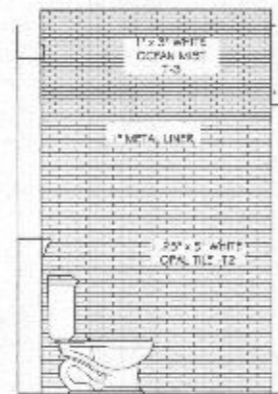
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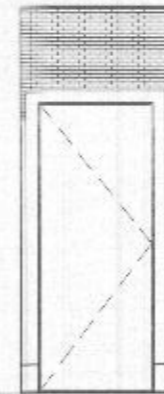
BATH & SPA PLAN  
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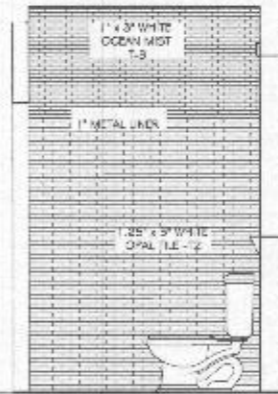
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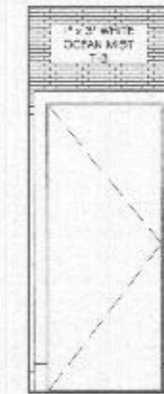
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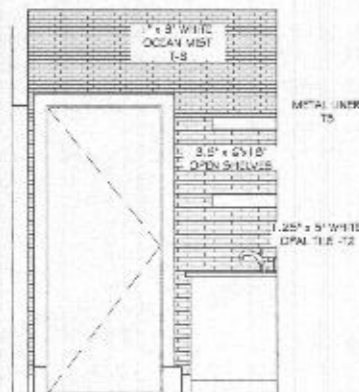
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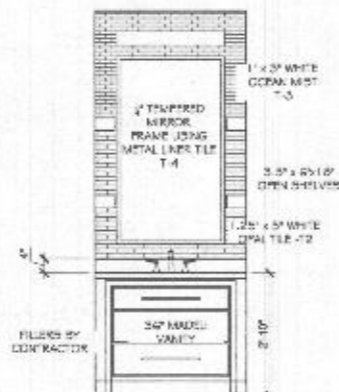
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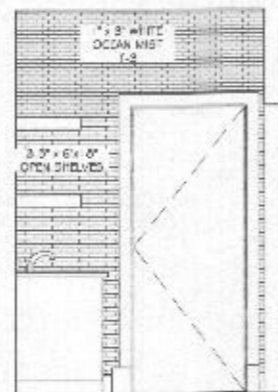
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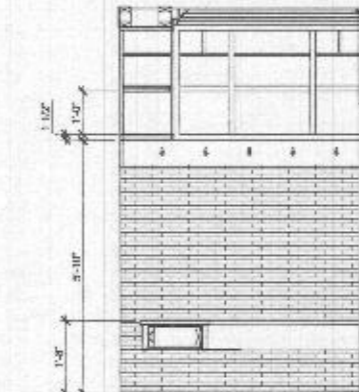
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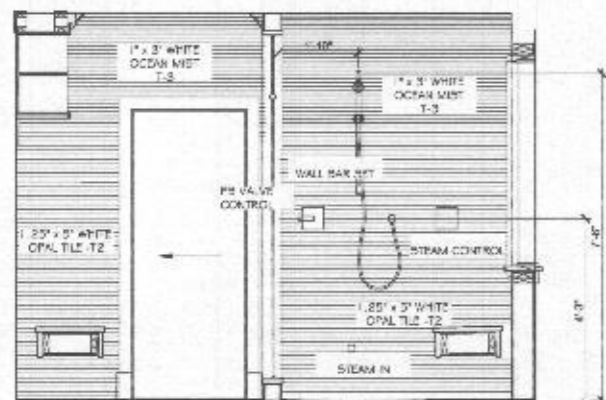
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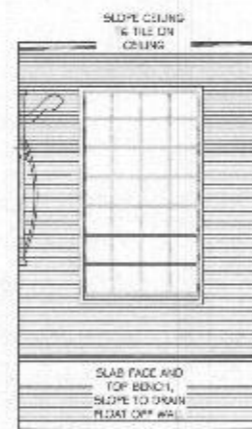
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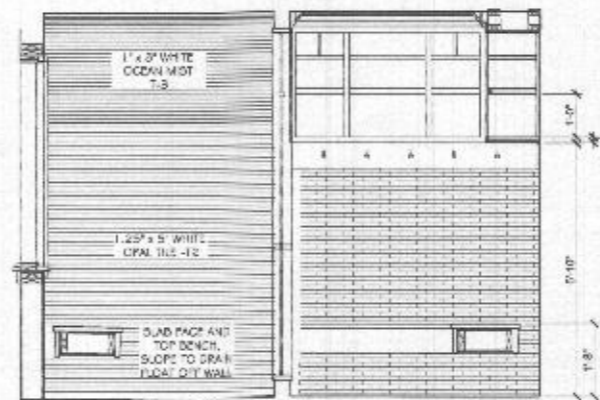
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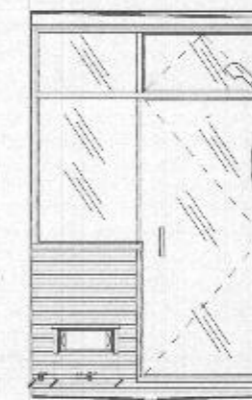
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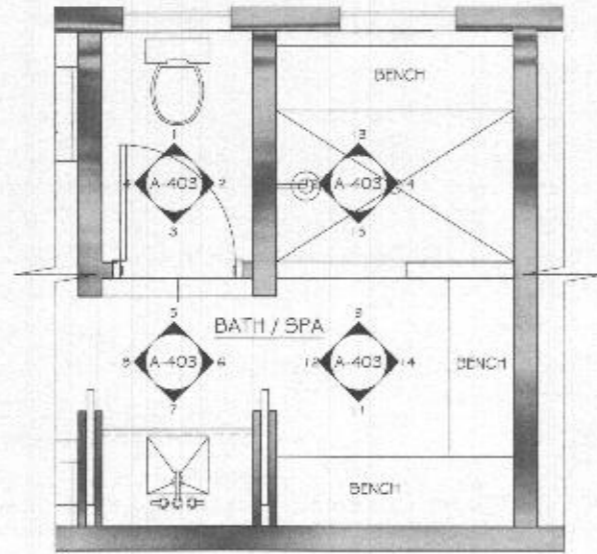
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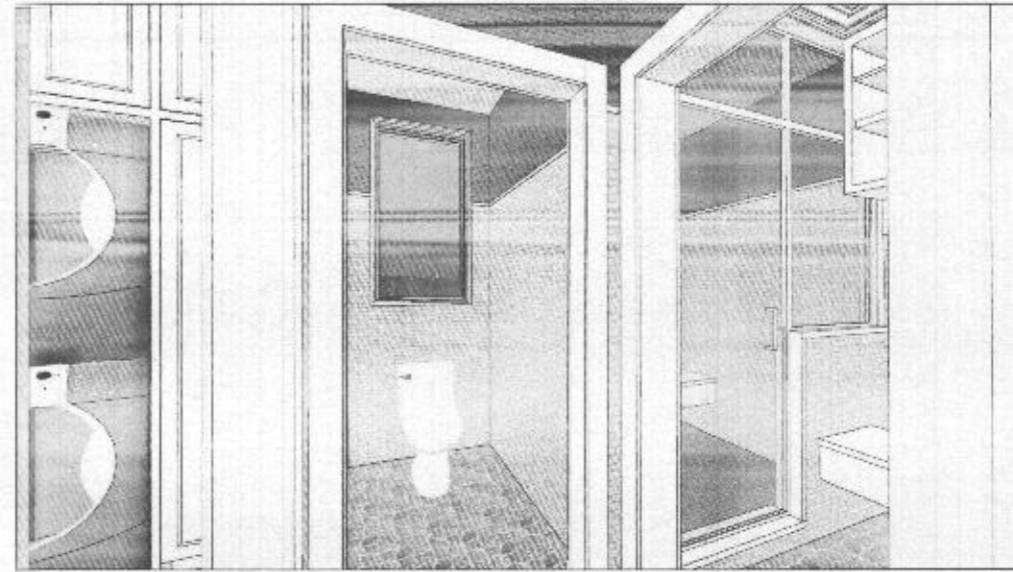
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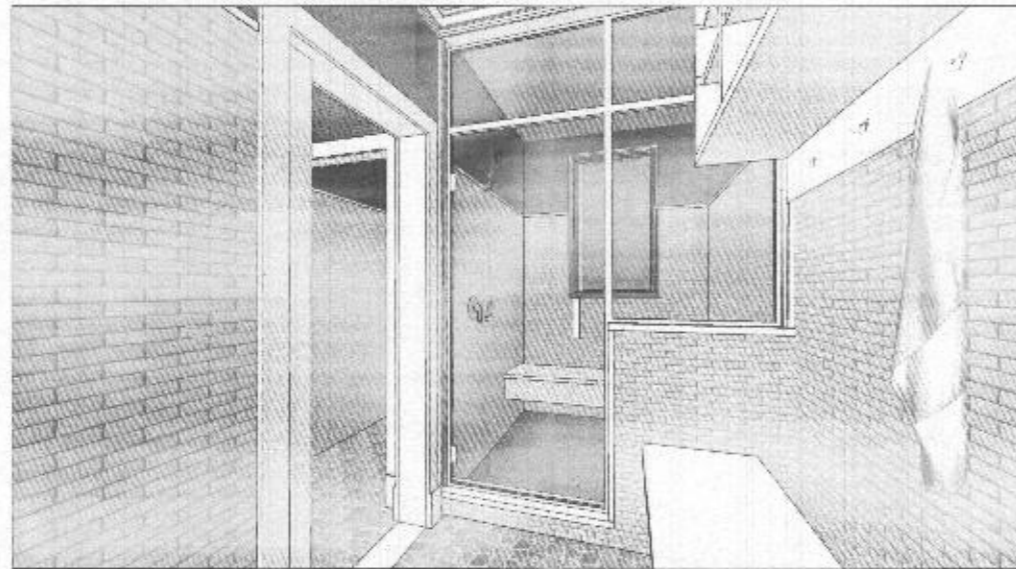
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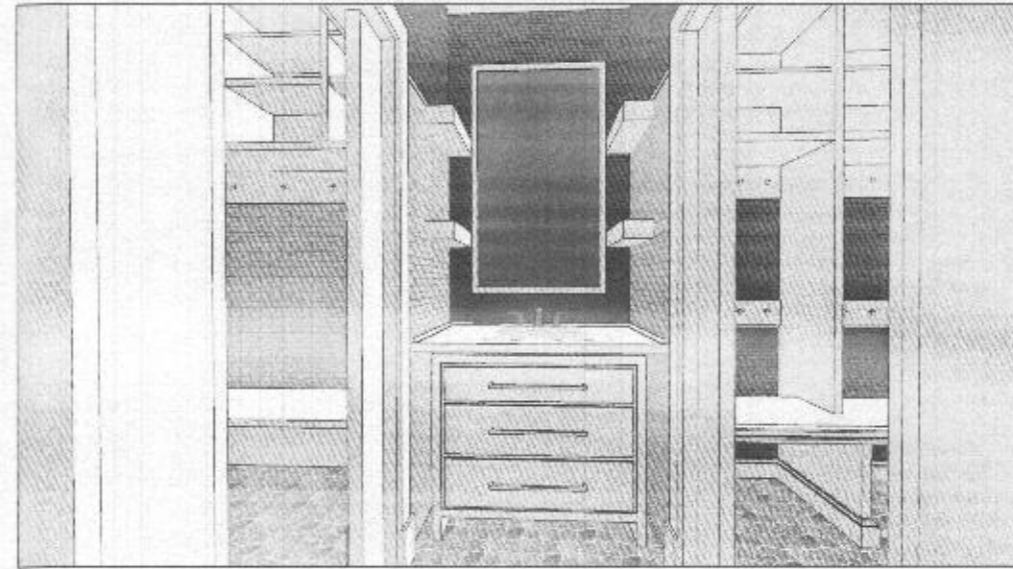
**BATH & SPA PLAN**  
SCALE: 1/2" = 1'-0"



**BATH & SPA PERSPECTIVES - 5**



**BATH & SPA PERSPECTIVES - 9**



**BATH & SPA PERSPECTIVES - 7**



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Notes Consultants

PROFESSIONAL CERTIFICATION  
The design of these documents were prepared or approved by a registered architect licensed in the State of Maryland.

License No. 1207  
Expiration Date 03/31/2025



Project

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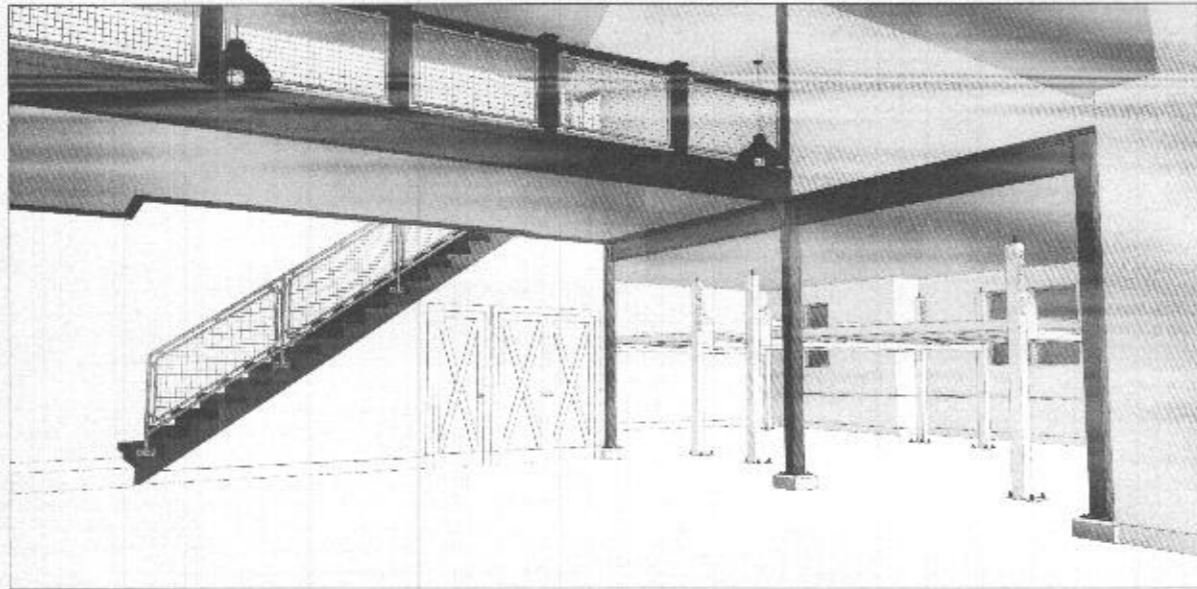
Drawing Title

INTERIOR ELEVATIONS

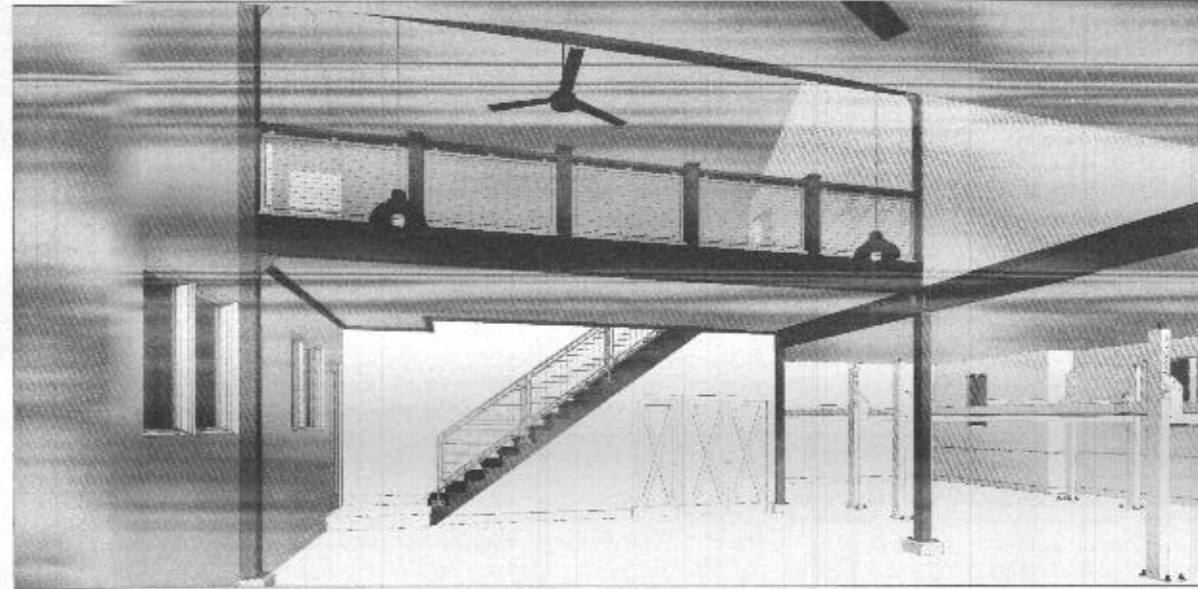
Date	Issue
SEPT. 27, 2021	PERMIT DRAWINGS

Drawn By \_\_\_\_\_  
Checkd By \_\_\_\_\_  
Job No. \_\_\_\_\_

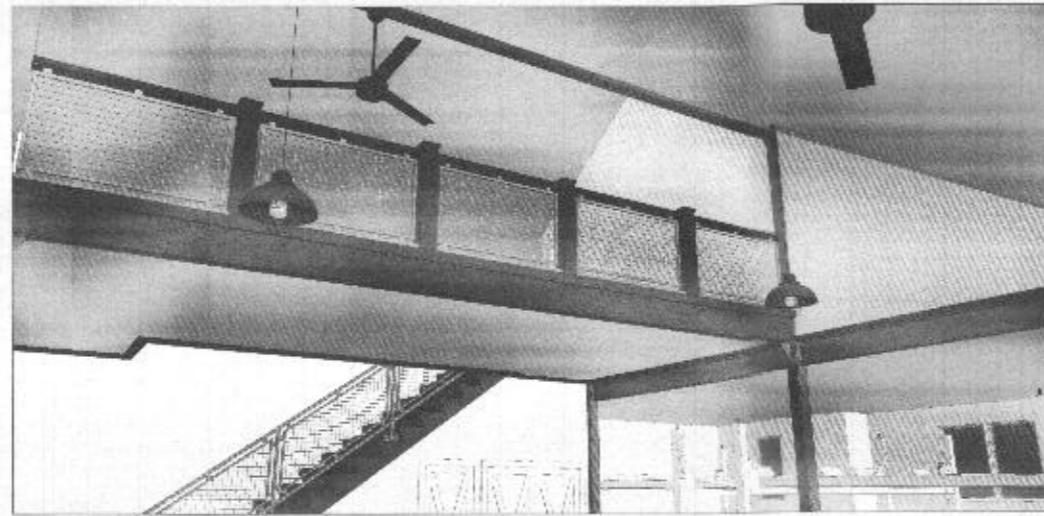
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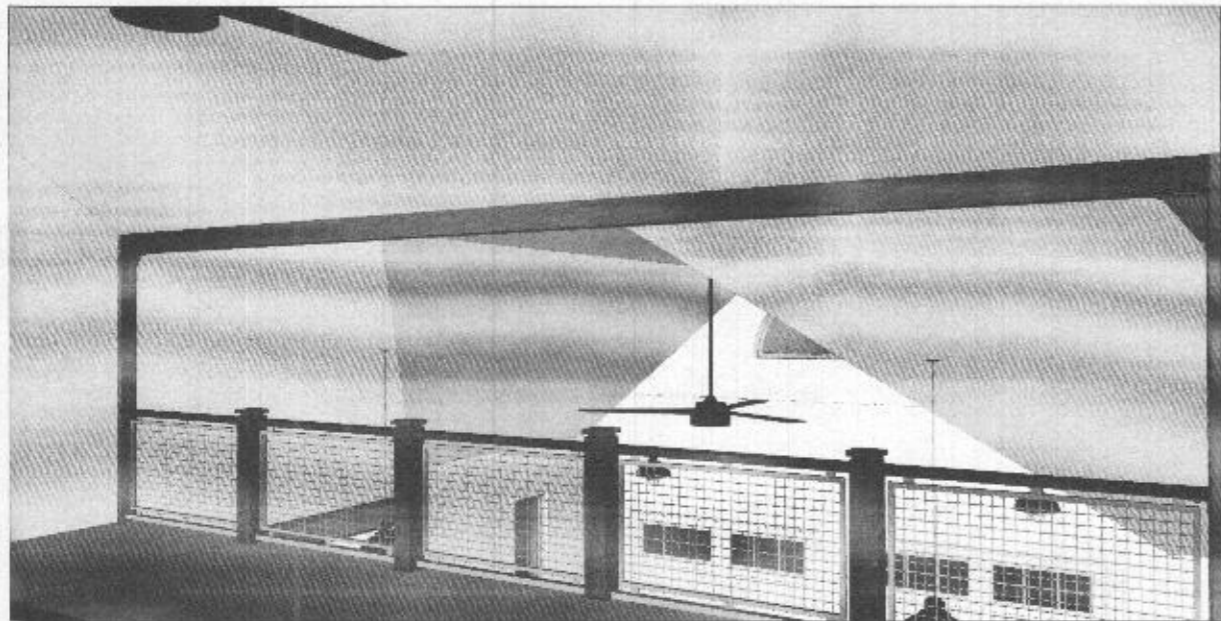
GARAGE PERSPECTIVE 1



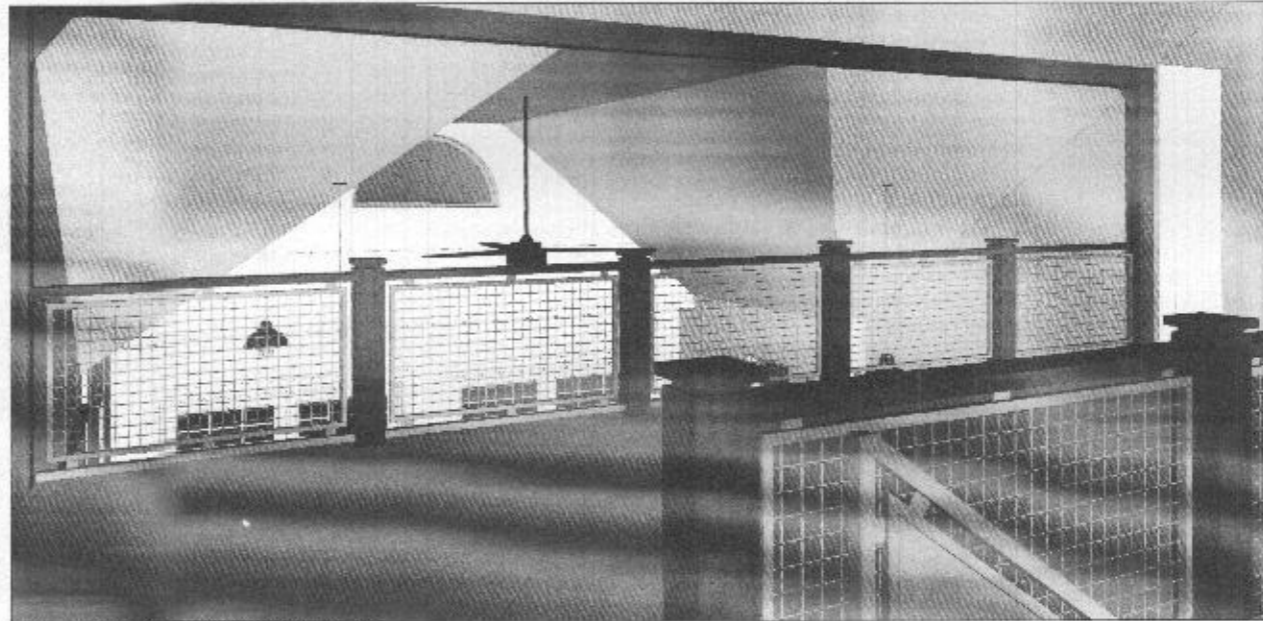
GARAGE PERSPECTIVE 2



GARAGE PERSPECTIVE 3



GARAGE PERSPECTIVE 4



GARAGE PERSPECTIVE 5



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PROFESSIONAL CERTIFICATION  
 I hereby certify that these documents were prepared, approved, sealed, and filed in accordance with the order of the State of Maryland.

License No. 11207  
 Expiration Date 07/01/2025



Project

TONY AND CRYSTAL  
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PROPOSED GARAGE  
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Drawing Title  
 INTERIOR  
 PERSPECTIVES

Date	Issue
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Drawn By  
 Check By  
 Job No.

Sheet No. | Sheet No.  
 | A405

# STRUCTURAL NOTES

## BUILDING CODES

ALL CONSTRUCTION SHALL COMPLY WITH THE 2015 NATIONAL RESIDENTIAL BUILDING CODE (RBC) UNLESS OTHERWISE NOTED. THE CONSTRUCTION SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE PUBLICATIONS PRODUCED BY THE FOLLOWING ASSOCIATIONS, LATEST EDITIONS:

- CONCRETE: AMERICAN CONCRETE INSTITUTE (ACI)  
CONCRETE REINFORCING STEEL TIE SYSTEM
- MASONRY: BRICK INSTITUTE OF AMERICA (BIA)  
NATIONAL SOCIETY OF TESTING AND MATERIAL TESTING  
NATIONAL CONCRETE AND MASONRY ASSOCIATION (NCMA)
- STEEL: AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC)  
AMERICAN SOCIETY OF TESTING AND MATERIAL TESTING
- WOOD: AMERICAN INSTITUTE OF WOOD CONSTRUCTION (AIWC)  
NATIONAL WOOD ASSOCIATION (NWA)  
AMERICAN WOOD PRESERVERS ASSOCIATION (AWPA)  
ARCHITECTURAL WOODWORKERS MANUAL (AWM)  
AMERICAN SOCIETY OF TESTING AND MATERIAL TESTING

## DESIGN LOADS

- GRAVITY LOADS
- ROOF LIVE LOAD = 20 PSF
- ROOF DEAD LOAD = 7 PSF
- FLOOR DEAD LOAD = 10 PSF
- FLOOR LIVE LOAD = 35 PSF (SLEEPING AREA)
- CEILING LIVE LOAD = 10 PSF (LIVING AREA)
- GROUND SURFACE LOAD (FS) = 25 PSF
- EXPANSION FACTOR (EA) = .00
- THERMAL FACTOR (TA) = .00
- IMPACT FACTOR (IF) = .00
- WIND
- FLAT ROOF SNOW LOAD (S) = 2 PSF
- SNOW DRIFT CALCULATED PER ASCE 7-10, ALLOWABLE DEVIATION FACTOR
- SEISMIC
- SEISMIC LOAD = 1500
- TOTAL LOAD = 1500
- SEISMIC + DEAD
- SEISMIC LOAD = 1500
- TOTAL LOAD = 1500
- MEMBERS SUPPORTING MASONRY / BRICK
- LIVE LOAD OF WIND LOAD = 1000
- TOTAL LOAD = 1000
- WALL LOADS
- 2 SECOND GUST WIND SPEED = 90 MPH (PER ASCE 7-10, SECTION 2.4.1) WORKING LOAD
- IMPACT = 3
- IMPACT OF WINDOW = 1.0
- UP WINDWARD = 0.5
- DOWNWARD = 0.5

THE STRUCTURAL INTEGRITY OF THE BUILDING IS DEPENDENT UPON TIMELY COMPLETION ACCORDING TO THE PLANS AND SPECIFICATIONS. THE STRUCTURAL MEMBERS ASSIGNED NO LOADS FOR THE STRUCTURE DURING CONSTRUCTION. THE METHOD OF CONSTRUCTION AND SEQUENCES OF OPERATIONS IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL OBTAIN ANY NECESSARY PERMITS, DRAWINGS, PERMITS, ETC., TO PROPERLY BRACE THE STRUCTURE AGAINST WIND, DEAD AND LIVE LOADS UNTIL THE BUILDING IS COMPLETELY ACCORDING TO THE PLANS AND SPECIFICATIONS. THE CONTRACTOR SHALL NOT PLACE BACKLASH AGAINST BACKLASH WALLS UNTIL THE FLOOR SYSTEM IS COMPLETELY INSTALLED OR THE CONTRACTOR HAS PROVIDED ADEQUATE BRACING AND BRACING MECHANICAL UNITS AND OTHER EQUIPMENT SUPPORTED BY THE STRUCTURE WITH WEIGHTS IN EXCESS OF 200 LBS SHALL BE BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER PRIOR TO INSTALLATION.

THE STRUCTURAL ENGINEER SHALL BE CONTACTED IF LOAD LOADS ARE DEEMED TO BE GREATER THAN THE ASSIGNED STANDARDS. LOADING CONDITION VALUES DERIVED ABOVE.

## CONCRETE

ALL CONCRETE FOR FOOTINGS, FOUNDATION WALLS, RETAINING WALLS, AND FLOOR SLABS ON GRADE SHALL ATTAIN A MINIMUM 28 DAY ULTIMATE COMPRESSIVE STRENGTH AS FOLLOWS:

- FOOTING/FOUNDATION WALLS = 4,000 PSI
- FOUNDATION WALLS = 4,000 PSI
- SLABS = 4,000 PSI

ALL CONCRETE EXPOSED TO THE WEATHER AND SUBJECT TO FREEZING AND THAWING IS A MOST WET CONDITION OR DRY-CHISEL CONDITION SHALL BE AIR ENCLOSED. THE TOTAL AIR CONTENT (PERCENT BY VOLUME) OF CONCRETE SHALL NOT BE LESS THAN 5 PERCENT (MIN) OR MORE THAN 7 PERCENT (MAX) WITH AT 28 DAYS. 4,000 PSI 4 BARRELS WATER CEMENT RATIO OF 0.45.

ALL CONSTRUCTION JOINTS SHALL BE REINFORCED AND NEED PROVIDED WHERE REQUIRED OR INDICATED ON THE DRAWINGS. CONSTRUCTION JOINTS OTHER THAN THOSE SHOWN ON THE DRAWINGS, MAY BE PROVIDED BY THE CONTRACTOR. HOWEVER, THE LOCATIONS ARE SUBJECT TO REVIEW BY THE ARCHITECT AND/OR STRUCTURAL ENGINEER. ALL VERTICAL CONSTRUCTION, CONTROL AND CONTRACTION JOINTS SHALL BE IN THE VERTICAL PLANE.

ALL FORMWORK AND BRACING OF CONCRETE SHALL BE PLAIN, LEVEL, AND SQUARE. THE STRUCTURAL ENGINEER SHALL REVIEW AND APPROVE ANY PROPOSED FORMWORK DESIGN DIFFERENT FROM INDUSTRY STANDARD PRACTICES.

EXTERIOR WALL FINISHES SHALL BE BRICK, PLASTER, UNLESS OTHERWISE SPECIFIED BY THE ARCHITECT. THE FINISHES SHALL MAINTAIN THE SAME PROTECTION AS NEAREST SURROUNDING EXTERIOR SURFACES. ON ANY OTHER UNDESIRABLE FINISHES WILL BE ACCEPTABLE.

## FOOTINGS

CONTRACTOR IS TO EXCAVATE AS REQUIRED TO EXPOSE AND VERIFY THE SIZE OF THE EXISTING FOOTING ADJACENT TO THE NEW ADDITION.

## FOUNDATIONS & FOUNDATION WALLS

STRUCTURAL CONCRETE FOOTINGS INCLUDING RETAINING WALLS ARE DESIGNED FOR SPECIFIC ALLOWABLE SOIL BEARING PRESSURES OF 1,500 PSF UNLESS NOTED IN THE FIELD FOR NON-TYPICAL CONCRETE FOOTINGS SHALL NOT BE REQUIRED UNTIL THE ALLOWABLE SOIL BEARING PRESSURES ARE VERIFIED BY A QUALIFIED GEOTECHNICAL ENGINEER OR QUALIFIED GEOTECHNICAL ENGINEER. THE FOUNDATION WALLS INCLUDING BASEMENT WALLS RETAINING WALLS SHALL BE DESIGNED FOR 60 PSF LATERAL EARTH PRESSURE. BRICKS 120 PSF SHALL BE MINIMUM 12" INTO UNDESIGNED SOIL. ON SHALL BE REQUIRED IN SMALLER WALLS TO BE APPROVED BY THE GEOTECHNICAL ENGINEER. BOTTOM OF FOOTING ELEVATION SHALL BE ONE MINIMUM SOIL FROST DEPTH BELOW THE GROUND FRESH GRADE. FINAL FOOTING ELEVATIONS TO BE VERIFIED BY THE GEOTECHNICAL ENGINEER.

## FOUNDATION WOOD SILL PLATES

FOUNDATION WOOD SILL PLATES TO BE SIZED TO FOUNDATION WITH DIMENSIONS 1/2" LONG, 100% MOISTURE CONTENT, 2" HIGH, 4" WIDE, 1/2" THICK AND FURTHER THICK FOR NEW FACE CORNER AND PARALLEL AND FULLY GRADED 2"X4 OR CONCRETE WALL. CORNER AND PARALLEL SHALL BE SIZED TO 2"X6 MIN. DEPTH OF SILL PLATE.

ALL FOUNDATION SILL PLATES SHALL BE PRESURE TREATED LVL. SEE DRAWINGS FOR SIZE.

## STRUCTURAL STEEL

ALL STEEL SHALL BE ASTM A992 GRADE 50 SHEET PILES, CHANNELS, AND ANGLES 1/4" THICK SHALL BE A572 GRADE 50. ALL WELD METERS SHALL BE A572 GRADE 50. ALL WELDING TO CONFORM TO AWS D. 1.1 AND SHALL BE PERFORMED BY CERTIFIED WELDERS. ALL CONNECTIONS SHALL BE WELDED OR BOLTED. SHOP AND FIELD WELDS SHALL BE ASTM A 375 405 405 WITH STRENGTH 305/315.

WELDS SHALL NOT BE CUT THROUGH BEAMS UNLESS INDICATED OR APPROVED BY THE STRUCTURAL ENGINEER. REVIEW STANDARD WELDING AND WELDED JOINTS FOR BEAMS RESTING ON MASONRY.

BOLTS IN MOMENT CONNECTIONS AND WIND RESISTING FRAMES SHALL BE ASTM A325 TYPE 30 SLIP CRIT. GR. 5/8" CRITICAL CONNECTIONS SHALL HAVE CONTACT SURFACES BEING CLASS A SURFACE. CONNECTIONS SHALL BE TIGHTENED.

BRACE CONNECTIONS TO BE WELDED OR BOLTED. FIELD CONNECTIONS TO BE BOLTED UNLESS OTHERWISE SHOWN. JOINTS SHALL BE 2" MINIMUM ROUND BOLTS (M14) UNLESS OTHERWISE NOTED. SPREAD BOLTS SHALL BE PERMITTED NORMAL TO THE LOAD DIRECTION IN CRITICAL AND BRACING TYPE CONNECTIONS AS PER AISC REQUIREMENTS.

ALL WELDING WORK SHALL BE PERFORMED PER SPECIFICATIONS AND GUIDELINES OF AMERICAN WELDING SOCIETY.

## STEEL LATHES

- A. TYPICAL STEEL LATHES (LATHES) SHALL BE AS FOLLOWS:
- 1. TYPICAL STEEL LATHES (LATHES) SHALL BE AS FOLLOWS:
- 2. GRADE 60
- 3. 1/2" THICK
- 4. 1/2" THICK
- 5. 1/2" THICK
- 6. 1/2" THICK
- 7. 1/2" THICK
- 8. 1/2" THICK
- 9. 1/2" THICK
- 10. 1/2" THICK
- 11. 1/2" THICK
- 12. 1/2" THICK
- 13. 1/2" THICK
- 14. 1/2" THICK
- 15. 1/2" THICK
- 16. 1/2" THICK
- 17. 1/2" THICK
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- 100. 1/2" THICK

STEEL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST AISC MANUAL. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING ASTM STANDARDS:

- ALL BEAMS AND COLUMNS (I, L, C)
- STEEL PLATE, CHANNELS AND ANGLES
- STRUCTURAL PIPES AND TUBES
- ANCHOR BOLTS
- HEAVY STRUCTURAL BOLTS

## REINFORCING STEEL

ALL REINFORCING STEEL SHALL BE ASTM A615, GRADE 60. ALL REINFORCING BAR DIMENSIONS SHOWN ON THE DRAWINGS ARE TO THE CENTER LINE OF BARS, UNLESS OTHERWISE NOTED. ALL CONCRETE AND REINFORCING STEEL SHALL BE FURNISHED, FABRICATED AND DELIVERED IN ACCORDANCE WITH ALL APPLICABLE BUILDING CODE REQUIREMENTS FOR REINFORCING CONCRETE STRUCTURES. (ACI 318-08). REINFORCING STEEL SHALL BE DETAIL IN ACCORDANCE WITH THE AIA MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCING CONCRETE STRUCTURES (ACI 318).

UNLESS OTHERWISE INDICATED ON THE DRAWINGS, THE CLEAR CONCRETE COVER PROVIDED FOR REINFORCEMENT SHALL BE:

- A. CAST AGAINST EARTH AND PERMANENTLY EXPOSED TO WEATHER 3"
- B. EXPOSED TO EARTH OR WEATHER THROUGH REINFORCING BARS 2" (BARS AND SMALLER) 3"
- C. NOT EXPOSED TO WEATHER OR IN CONTACT WITH THE GROUND SLABS AND WALLS 1.5"
- D. JOISTS, GIRDERS, COLUMNS, PRIMARY REINFORCEMENT, TIES, STRAPS, STRAPS 1.5"

## GENERAL WOOD FRAMING

ALL EXTERIOR AND INTERIOR WALLS SHALL BE 2"X4 OR 2"X6 UNLESS OTHERWISE NOTED. ALL DIMENSIONAL LUMBER SHALL BE SIZED TO 1/2" OVER THE NOMINAL DIMENSIONS UNLESS OTHERWISE NOTED. ALL DIMENSIONAL LUMBER SHALL BE SIZED TO 1/2" OVER THE NOMINAL DIMENSIONS UNLESS OTHERWISE NOTED.

ALL WOOD IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESURE TREATED (PT). TYPICAL JOINTS SHALL BE 1/2" OVER THE NOMINAL DIMENSIONS UNLESS OTHERWISE NOTED. WHERE NEW AND EXISTING WALLS AT ALL FLOOR AND WINDOW HEADS, UNLESS OTHERWISE NOTED, WHERE NEW AND EXISTING PARTIES AND JOISTS ARE 1/2" OVER THE NOMINAL DIMENSIONS UNLESS OTHERWISE NOTED.

ALL WOOD SHALL BE SIZED TO 1/2" OVER THE NOMINAL DIMENSIONS UNLESS OTHERWISE NOTED. ALL WOOD SHALL BE SIZED TO 1/2" OVER THE NOMINAL DIMENSIONS UNLESS OTHERWISE NOTED.

CONTRACTOR IS TO VERIFY DIMENSIONS FOR BRACING AND BRACING OF EXISTING STRUCTURE AS REQUIRED DURING CONSTRUCTION.

LAYOUT OF JOIST BRACING IN DRAWINGS. CONTRACTOR SHALL COORDINATE LOCATION OF BRACING WITH FEATURES, RECEIPTABLES AND OFFICES TO BE INSTALLED.

WHERE NEW JOIST BRACING AND EXTERIOR STUD WALLS CONNECT TO EXISTING, INSTALL 1/2"X4 OR 1/2"X6 LAG BOLTS @ 24" O.C. VERTICALLY.

FOR WALLS OF EXISTING WALLS AT DEPARTS, NOTCH TOP OF PARTIES IN LINE WITH DEPARTS WITH 1/2"X4 OR 1/2"X6 LAG BOLTS @ 24" O.C. ALONG THE PARTIES LENGTH.

INSTALL PARTIES TO DOWN CURS OF FLOORING STRIPS AT EACH PARTIES BEARING FROM TO THE TOP PLATE. INSTALL BRACING @ FLOORING AND PARTIES AS PER ALL LOCAL CODES.

## STRUCTURAL LUMBER

STRUCTURAL LUMBER SHALL BE IN ACCORDANCE WITH THE NATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION (NDS) 2005 EDITION, PUBLISHED BY THE NATIONAL FOREST PRODUCTS ASSOCIATION. ALL STRUCTURAL MEMBER DIMENSIONS SHALL BE ONE OF THE FOLLOWING MINIMUM VALUES UNLESS OTHERWISE NOTED:

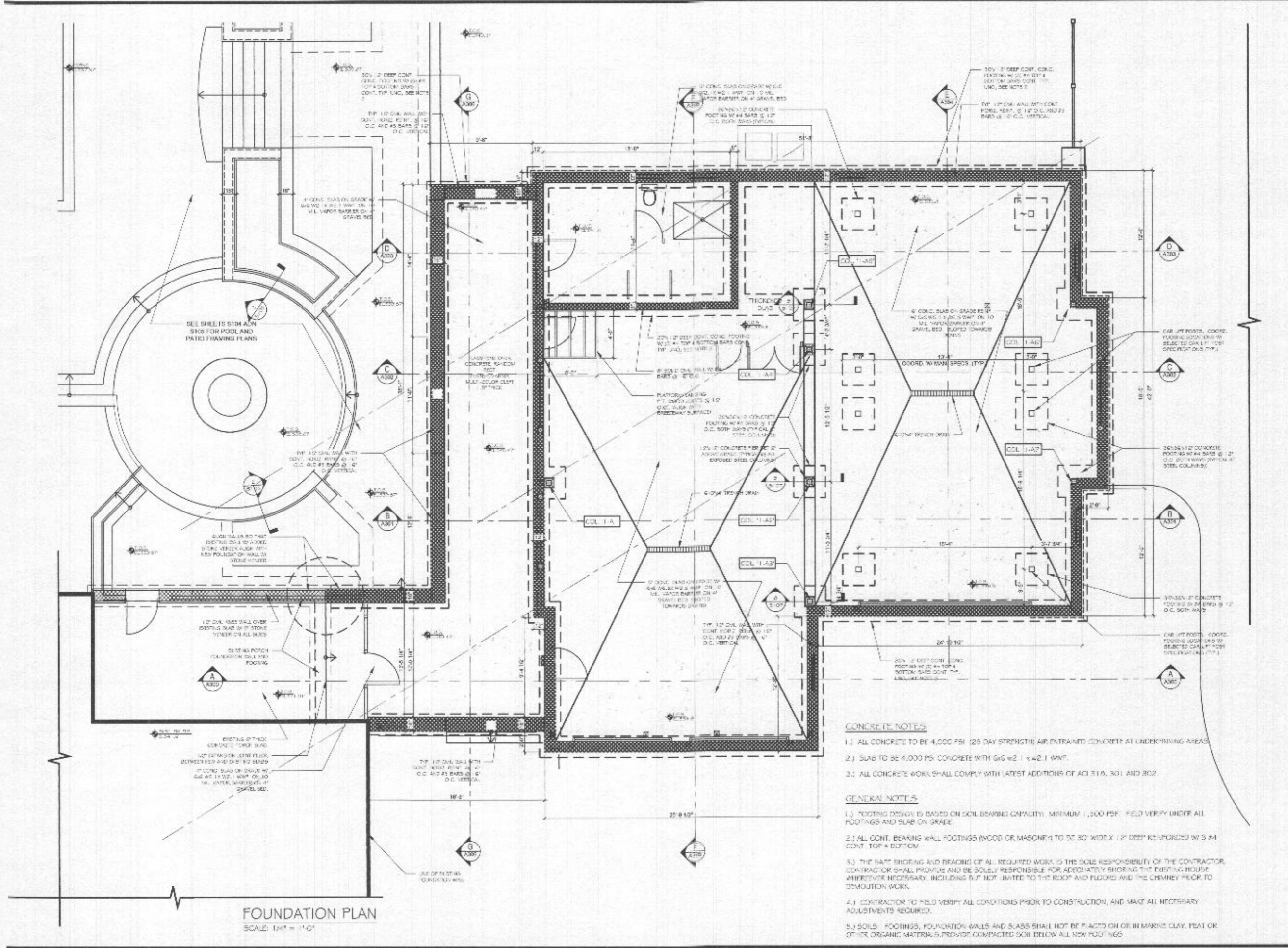
TYPE OF WOOD	F <sub>b</sub>	E <sub>x</sub>	F <sub>v</sub>	F <sub>u</sub>	F <sub>u2</sub>	E	MIN
SPF 2X4	1,100	1,800,000	100	4,000	1,100	1,400,000	510,000
SPF 2X6	1,100	1,800,000	100	4,000	1,100	1,400,000	510,000
SPF 2X8	1,100	1,800,000	100	4,000	1,100	1,400,000	510,000
SPF 2X10	1,100	1,800,000	100	4,000	1,100	1,400,000	510,000
SPF 2X12	1,100	1,800,000	100	4,000	1,100	1,400,000	510,000
SPF 2X14	1,100	1,800,000	100	4,000	1,100	1,400,000	510,000
SPF 2X16	1,100	1,800,000	100	4,000	1,100	1,400,000	510,000
SPF 2X18	1,100	1,800,000	100	4,000	1,100	1,400,000	510,000
SPF 2X20	1,100	1,800,000	100	4,000	1,100	1,400,000	510,000
SPF 2X22	1,100	1,800,000	100	4,000	1,100	1,400,000	510,000
SPF 2X24	1,100	1,800,000	100	4,000	1,100	1,400,000	510,000
SPF 2X26	1,100	1,800,000	100	4,000	1,100	1,400,000	510,000
SPF 2X28	1,100	1,800,000	100	4,000	1,100	1,400,000	510,000
SPF 2X30	1,100	1,800,000	100	4,000	1,100	1,400,000	510,000
SPF 2X32	1,100	1,800,000	100	4,000	1,100	1,400,000	510,000
SPF 2X34	1,100	1,800,000	100	4,000	1,100	1,400,000	510,000
SPF 2X36	1,100	1,800,000	100	4,000	1,100	1,400,000	510,000
SPF 2X38	1,100	1,800,000	100	4,000	1,100	1,400,000	510,000
SPF 2X40	1,100	1,800,000	100	4,000	1,100	1,400,000	510,000
SPF 2X42	1,100	1,800,000	100	4,000	1,100	1,400,000	510,000
SPF 2X44	1,100	1,800,000	100	4,000	1,100	1,400,000	510,000
SPF 2X46	1,100	1,800,000	100	4,000	1,100	1,400,000	510,000
SPF 2X48	1,100	1,800,000	100	4,000	1,100	1,400,000	510,000
SPF 2X50	1,100	1,800,000	100	4,000	1,100	1,400,000	510,000
SPF 2X52	1,100	1,800,000	100	4,000	1,100	1,400,000	510,000
SPF 2X54	1,100	1,800,000	100	4,000	1,100	1,400,000	510,000
SPF 2X56	1,100	1,800,000	100	4,000	1,100	1,400,000	510,000
SPF 2X58	1,100	1,800,000	100	4,000	1,100	1,400,000	510,000
SPF 2X60	1,100	1,800,000	100	4,000	1,100	1,400,000	510,000
SPF 2X62	1,100	1,800,000	100	4,000	1,100	1,400,000	510,000
SPF 2X64	1,100	1,800,000	100	4,000	1,100	1,400,000	510,000
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SPF 2X90	1,100	1,800,000	100	4,000	1,100	1,400,000	510,000
SPF 2X92	1,100	1,800,000	100	4,000	1,100	1,400,000	510,000
SPF 2X94	1,100	1,800,000	100	4,000	1,100	1,400,000	510,000
SPF 2X96	1,100	1,800,000	100	4,000	1,100	1,400,000	510,000
SPF 2X98	1,100	1,800,000	100	4,000	1,100	1,400,000	510,000
SPF 2X100	1,100	1,800,000	100	4,000	1,100	1,400,000	510,000

## NOTATIONS

- F<sub>b</sub> ALLOWABLE BENDING STRESS
- E<sub>x</sub> ALLOWABLE TENSION STRESS (PERPENDICULAR TO GRAIN)
- F<sub>v</sub> ALLOWABLE SHEAR STRESS (PARALLEL TO GRAIN)
- F<sub>u</sub> ALLOWABLE COMPRESSION STRESS (PERPENDICULAR TO GRAIN)
- F<sub>u2</sub> ALLOWABLE COMPRESSION STRESS (PARALLEL TO GRAIN)
- E MODULUS OF ELASTICITY (MIN)
- MIN MINIMUM

WHERE INDICATED ON THE DRAWINGS, ALL JOINTS SHALL BE MANUFACTURED BY WELDED OR BOLTED JOINTS. PRIOR TO ORDERING THE GENERAL CONTRACTOR SHALL OBTAIN SHOP DRAWINGS FROM THE JOINT MANUFACTURER AND SUBMIT THEM TO THE STRUCTURAL ENGINEER IN A TIMELY MANNER FOR REVIEW PRIOR TO ORDERING. IN THE EVENT THE GENERAL CONTRACTOR FAILS TO SUBMIT SHOP DRAWINGS TO STRUCTURAL ENGINEER, THE GENERAL CONTRACTOR AND THE JOINT MANUFACTURER SHALL BE FULLY RESPONSIBLE FOR THE PERFORMANCE AND LOCAL RESPONSIBILITIES OF THE JOINT SYSTEMS AND FIELD STRUCTURAL MEMBER FAILURES.

PROVIDE 2"X4 TYPICAL AND GROOVE PLYWOOD OR GGG DATA RATED GGG FLOOR OR SLABS ADVANTAGE GGG AND BUILT TO THE FLOOR JOISTS TO MEET THE AMERICAN FLOORWOOD ASSOCIATION (AFA) APPROVED GGG FLOOR SYSTEM, UNLESS OTHERWISE SPECIFIED.



**FOUNDATION PLAN**  
SCALE: 1/4" = 1'-0"

**CONCRETE NOTES**

- 1.) ALL CONCRETE TO BE 4,000 PSI (28 DAY STRENGTH) AIR ENTRAINED CONCRETE AT UNDERPINNING AREAS.
- 2.) SLAB TO BE 4,000 PSI CONCRETE WITH 5/8" W2 @ 12" ON CENTER.
- 3.) ALL CONCRETE WORK SHALL COMPLY WITH LATEST ADDITIONS OF ACI 318, 301 AND 302.

**GENERAL NOTES**

- 1.) FOOTING DESIGN IS BASED ON SOIL BEARING CAPACITY: MINIMUM 1,500 PSF. FIELD VERIFY UNDER ALL FOOTINGS AND SLAB ON GRADE.
- 2.) ALL CONT. BEARING WALL FOOTINGS (WOOD OR MASONRY) TO BE 30" WIDE X 12" DEEP REINFORCED WITH 3 #4 CONT. TOP & BOTTOM.
- 3.) THE BATT SHORING AND BRACING OF ALL REQUIRED WORK IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR SHALL PROVIDE AND BE SOLELY RESPONSIBLE FOR ADEQUATELY SHORING THE EXISTING HOUSE WHEREVER NECESSARY, INCLUDING BUT NOT LIMITED TO THE ROOF AND FLOORS AND THE CHIMNEY PRIOR TO DEMOLITION WORK.
- 4.) CONTRACTOR TO FIELD VERIFY ALL CONDITIONS PRIOR TO CONSTRUCTION, AND MAKE ALL NECESSARY ADJUSTMENTS REQUIRED.
- 5.) SOILS, FOOTINGS, FOUNDATION WALLS AND SLABS SHALL NOT BE PLACED ON OR IN MARLY CLAY, PEAT OR OTHER ORGANIC MATERIALS. PROVIDE COMPACTED SOIL BELOW ALL NEW FOOTINGS.

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Notes Consultants  
**STATE OF MARYLAND**  
REGISTERED PROFESSIONAL ENGINEER  
*Expert*

Project  
**TONY AND CRYSTAL PULSIRISAROTH RESIDENCE**  
PROPOSED GARAGE ADDITION, BREEZEWAY AND POOL AREA  
14148 HOWARD ROAD  
DAYTON, MD. 21036

Drawing Title  
**FOUNDATION PLAN**

Date	Issue
07/02/2021	PROGRESS SET
07/26/2021	PERMIT SET

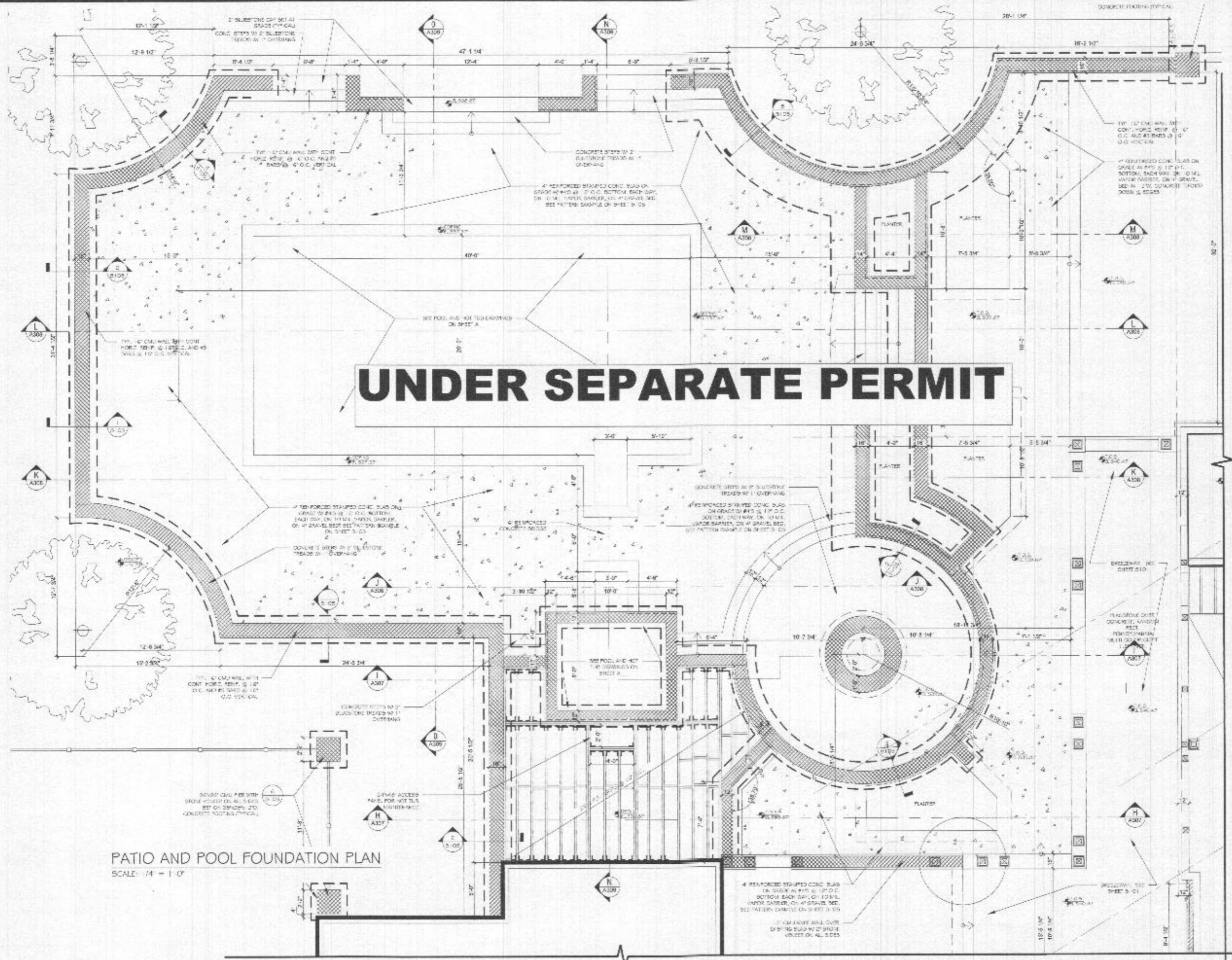
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Checked By  
Job No.

Sheet No.  
**5101**

FOR PERMIT ONLY







**UNDER SEPARATE PERMIT**

PATIO AND POOL FOUNDATION PLAN  
SCALE: 1/4" = 1'-0"

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Notes Consultants  
  
Eyolett

Project  
**TONY AND CRYSTAL  
PULSIRISAROTH  
RESIDENCE**  
PROPOSED GARAGE  
ADDITION,  
BREEZEWAY AND  
POOL AREA  
14145 HOWARD ROAD  
DAYTON, MO. 21036

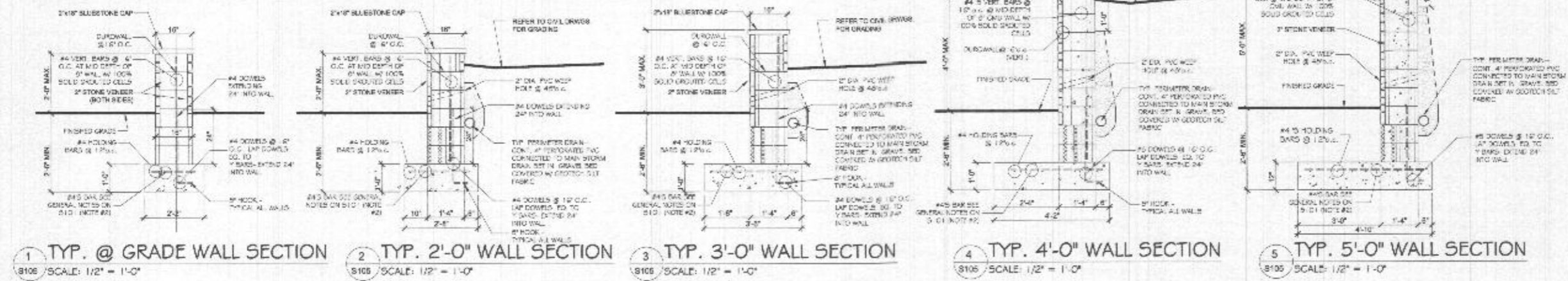
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**PATIO AND POOL  
FOUNDATION PLAN**

Date	Issue
07/02/2021	PROGRESS SET
07/26/2021	PERMIT SET

Drawn By \_\_\_\_\_  
Chkd By \_\_\_\_\_  
Job No. \_\_\_\_\_

Sheet No. **5104**

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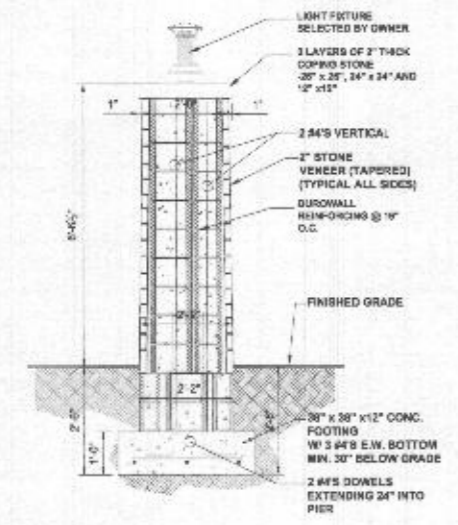
1 TYP. @ GRADE WALL SECTION  
S105 SCALE: 1/2" = 1'-0"

2 TYP. 2'-0" WALL SECTION  
S105 SCALE: 1/2" = 1'-0"

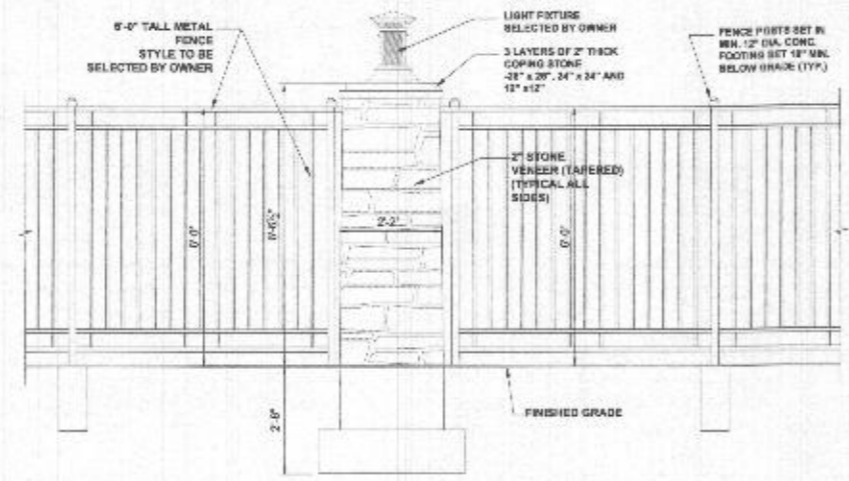
3 TYP. 3'-0" WALL SECTION  
S105 SCALE: 1/2" = 1'-0"

4 TYP. 4'-0" WALL SECTION  
S105 SCALE: 1/2" = 1'-0"

5 TYP. 5'-0" WALL SECTION  
S105 SCALE: 1/2" = 1'-0"



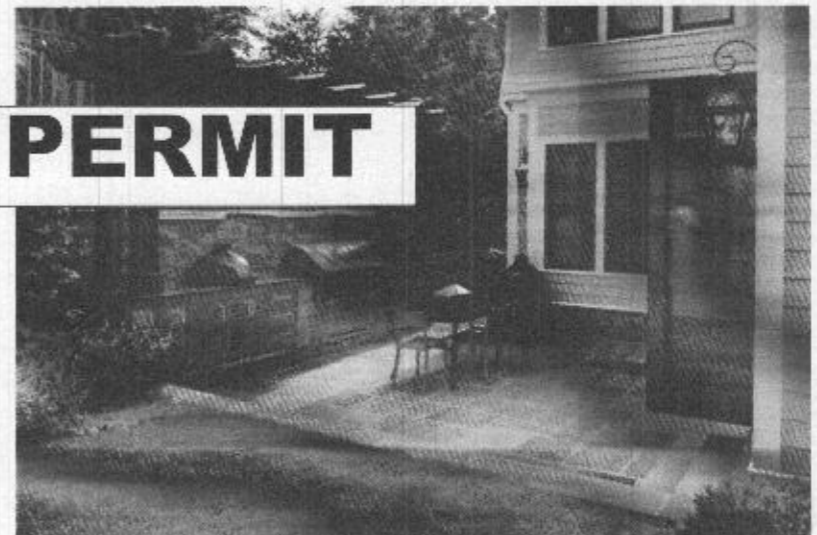
5 FENCE PIER SECTION  
S105 SCALE: 1/2" = 1'-0"



6 PIER AND FENCE ELEVATION (TYPICAL)  
S105 SCALE: 1/2" = 1'-0"



7 STAMPED CONCRETE PATTERN EXAMPLE  
S105 NOT TO SCALE



8 FLAGSTONE PATTERN EXAMPLE  
S105 NOT TO SCALE

**UNDER SEPARATE PERMIT**

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Project  
**TONY AND CRYSTAL PULSIRISAROTH RESIDENCE**  
PROPOSED GARAGE ADDITION, BREEZEWAY AND POOL AREA  
14145 HOWARD ROAD  
DAYTON, MD 21036

Drawing Title  
**SECTIONS**

Date	Issue
07/02/2021	PROGRESS SET
07/26/2021	PERMIT SET

Dwn By  
Chid By  
Job No.

Sheet No. **5105**

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