

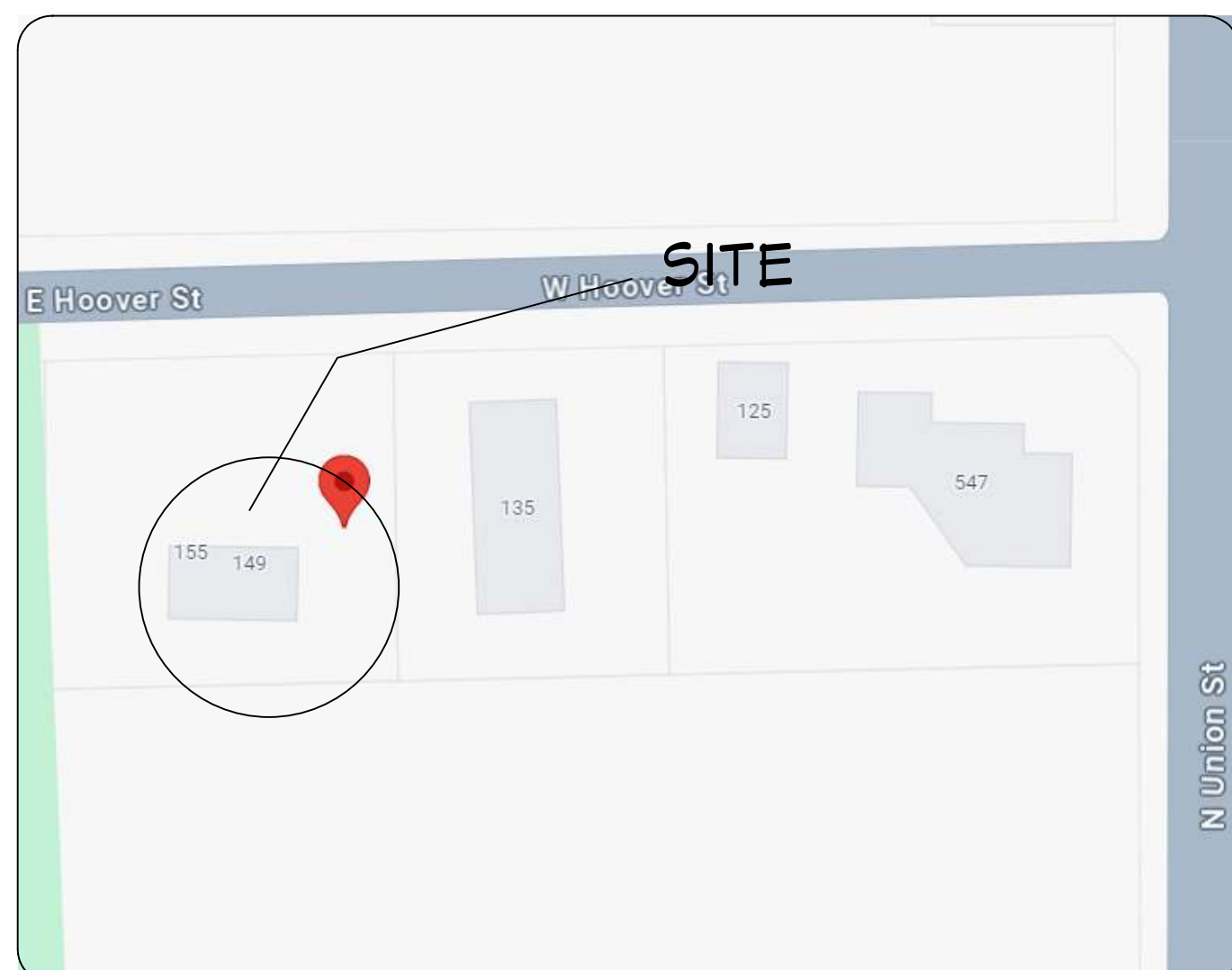
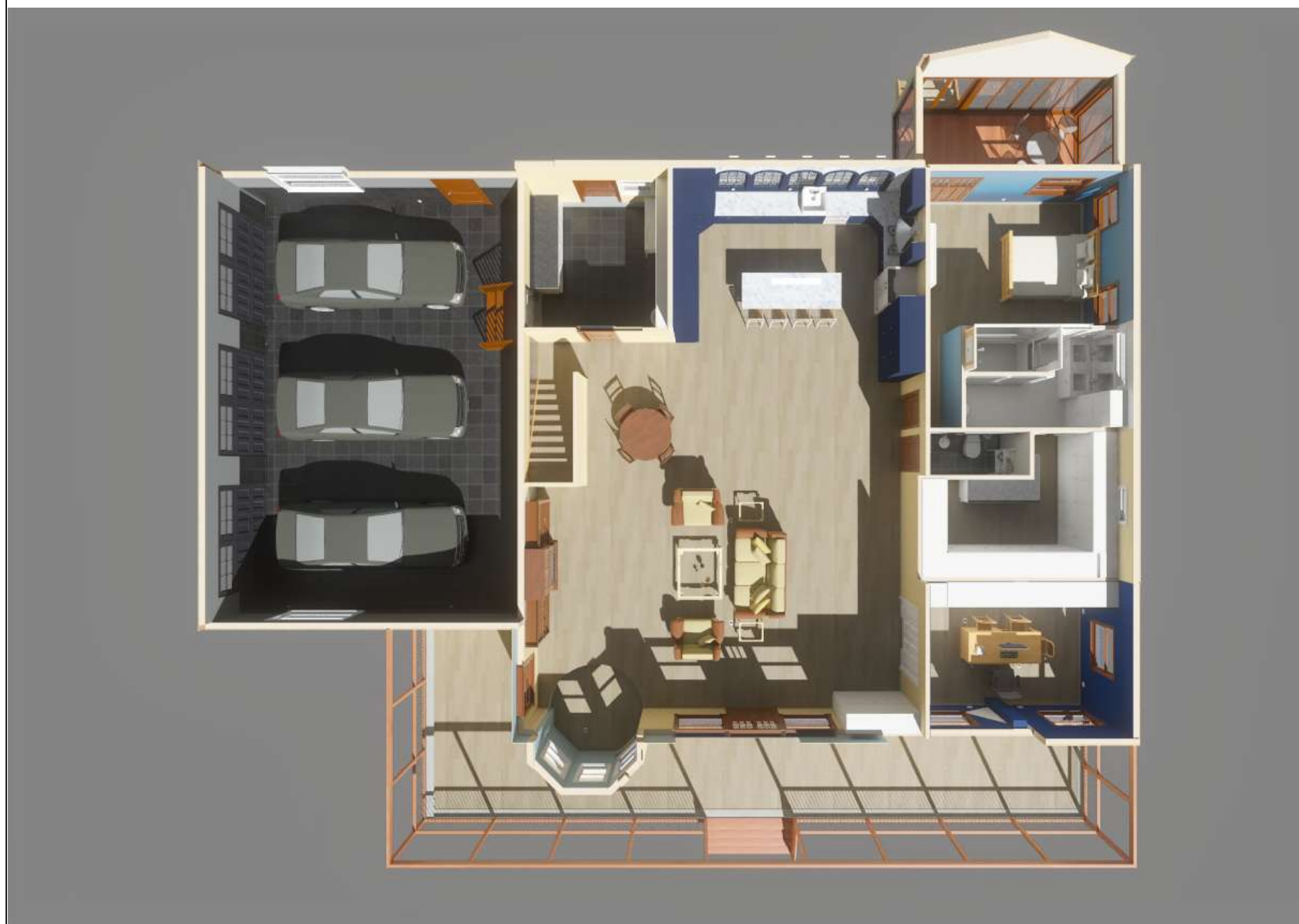
SINGLE-FAMILY RESIDENTIAL BUILDING

145 & 155 W HOOVER ST, WESTFIELD, INDIANA 46074, USA



RENDERING

FOR ILLUSTRATION ONLY



VICINITY MAP

NOT TO SCALE

GENERAL NOTES:

THIS PLAN SET, COMBINED WITH THE BUILDING CONTRACT, PROVIDES BUILDING DETAILS FOR THE RESIDENTIAL PROJECT. THE CONTRACTOR SHALL VERIFY THAT SITE CONDITIONS ARE CONSISTENT WITH THESE PLANS BEFORE STARTING WORK. WORK NOT SPECIFICALLY DETAILED SHALL BE CONSTRUCTED TO THE SAME QUALITY AS SIMILAR WORK THAT IS DETAILED. ALL WORK SHALL BE DONE IN ACCORDANCE WITH INTERNATIONAL BUILDING CODES AND LOCAL CODES. CONTRACTOR SHALL BE RESPONSIBLE AND BEAR ANY FINES OR PENALTIES FOR CODE, ORDINANCE, REGULATION OR BUILDING PROCESS VIOLATIONS. INSURANCES SHALL BE IN FORCE THROUGHOUT THE DURATION OF THE BUILDING PROJECT.

WRITTEN DIMENSIONS AND SPECIFIC NOTES SHALL TAKE PRECEDENCE OVER SCALED DIMENSIONS AND GENERAL NOTES. THE ENGINEER/DESIGNER SHALL BE CONSULTED FOR CLARIFICATION IF SITE CONDITIONS ARE ENCOUNTERED THAT ARE DIFFERENT THAN SHOWN, IF DISCREPANCIES ARE FOUND IN THE PLANS OR NOTES, OR IF A QUESTION ARISES OVER THE INTENT OF THE PLANS OR NOTES. CONTRACTOR SHALL VERIFY AND IS RESPONSIBLE FOR ALL DIMENSIONS (INCLUDING ROUGH OPENINGS). ALL TRADES SHALL MAINTAIN A CLEAN WORK SITE AT THE END OF EACH WORK DAY.

PLEASE SEE ADDITIONAL NOTES CALLED OUT ON OTHER SHEETS.

BUILDING DESIGN AND CODE DATA:

NOTE: THIS WAS A PURPOSE DRAWING Branch Circuitry and Panel designations to be designed and installed by certified local electrician. L.S. (NFPA 101 LIFE SAFETY CODE) AS APPLICABLE.

APPLICABLE BUILDING CODES:

- 2020 INDIANA RESIDENTIAL CODE (IRC)
- 2018 INTERNATIONAL ENERGY CONSERVATION CODE (IECC)
- 2012 INTERNATIONAL FIRE CODE (IFC)
- 2012 INTERNATIONAL BUILDING CODE (IBC)
- 2012 INTERNATIONAL FUEL GAS CODE (IFGC)
- 2012 INTERNATIONAL MECHANICAL CODE (IMC)
- 2006 INTERNATIONAL PLUMBING CODE (IPC)

OCCUPANCY LOAD AND EGRESS:

AS PER IBC 2012 CHAPTER 10 TABLE 1004.1.2, FOR RESIDENTIAL BUILDING,

MAXIMUM FLOOR AREA ALLOWANCES PER OCCUPANT = 200 SFT.
 TOTAL BUILDING AREA = 4,040.5 SFT
 4040 SFT / 200 SFT = 20.2
 = 20 PERSON (APPROX.)

AS PER IBC 2012 CHAPTER 10 SECTION 1005, MEANS OF EGRESS SIZING,

CAPACITY FACTOR PER OCCUPANT = 0.2 INCH
 EGRESS WIDTH = 20 X 0.2 = 4"
 (MIN. 36" PROVIDED)

CODE INFORMATION:

PROJECT DESCRIPTION:
 PROPOSED SINGLE FAMILY RESIDENTIAL UNIT

BUILDING CODE:
 INDIANA BUILDING CODE (IBC) - 2012

CHAPTER 3- CLASSIFICATION:
 PROPOSED RESIDENTIAL GROUP R-3

CHAPTER 5- HEIGHT AND AREA:
 ALLOWABLE BUILDING HEIGHT = 40'
 ALLOWABLE NUMBER OF STORIES = 3
 ALLOWABLE BUILDING AREA PER STORY = UN (UNLIMITED)

CHAPTER 6- CONSTRUCTION TYPE:
 TYPE V-B CONSTRUCTION TYPE
 (UNPROTECTED WOOD-FRAME STRUCTURE)

CHAPTER 7- FIRE SEPARATION AND RATINGS:
 FIRE RATINGS FOR BUILDING ELEMENTS (BASED ON SECTION 602.1 & TABLES 601 & 602 OF THE IBC):

CHAPTER 8- INTERIOR FINISH RATINGS:
 FOR INTERIOR EXIT, STAIRWAYS, CORRIDORS AND ENCLOSURE,
 ROOMS AND ENCLOSED SPACES
 CLASS C = FLAME SPREAD INDEX 76-200;
 SMOKE-DEVELOPED INDEX 0-450

CHAPTER 9- FIRE PROTECTION:
 AN AUTOMATIC FIRE SPRINKLER SYSTEM AS DESCRIBED PER IBC SECTION 903.3.1.3 SHALL BE PERMITTED WITH 16 OR FEWER RESIDENTS

CHAPTER 10- MEANS OF EGRESS:
 SEE OCCUPANT LOAD AND MEANS OF EGRESS CALCULATION AT LEFT.

CHAPTER 11- ACCESSIBILITY:
 IN GROUP R-3 OCCUPANCIES WHERE THERE ARE FOUR OR MORE DWELLING UNITS OR SLEEPING UNITS INTENDED TO BE OCCUPIED AS A RESIDENCE IN A SINGLE STRUCTURE, EVERY DWELLING UNIT AND SLEEPING UNIT INTENDED TO BE OCCUPIED AS A RESIDENCE SHALL BE A TYPE B UNIT.

CHAPTER 29- PLUMBING FIXTURES:
 6 LAVATORIES (MIN. 1 REQUIRED),
 3 WATER CLOSET (MIN. 1 REQUIRED),
 2 BATHTUB/SHOWER (MIN. 1 REQUIRED),
 1 KITCHEN SINK & 1 AUTOMATIC CLOTH WASHER PROVIDED.

PROJECT INFORMATION:

OWNER: MELODY JONES
PROJECT: PROPOSED SINGLE-FAMILY RESIDENTIAL BUILDING
ADDRESS: 145 & 155 W HOOVER ST, WESTFIELD, INDIANA 46074, USA

WATER/SEWER: MUNICIPAL ON SITE
BUILDING PERMIT: STATE OF INDIANA
ZONING: SFR (SINGLE FAMILY RESIDENCE)
COUNTY: HAMILTON
MUNICIPALITY NAME: WASHINGTON
LEGAL DESCRIPTION: SECTION 36, TOWNSHIP 19, RANGE 3, JUNCTION NORTH, LOT 1 & 2, IRREGULAR SHAPE

LOT AREA: 16,553 SFT / 0.38 ACRES
BUILDING AREA: 4,040.5 SFT / 0.09 ACRES
SITE DISTURBANCE:

DESIGNER: ASWIN KUMAR
DESIGN CONSULTANT: TRANSFORMATIVE CONSTRUCTION
BUILDER: TBD
ENGINEERING ADDRESS: ARMENTROUT MATHENY THURMOND, P.C.
 330 RESEARCH DRIVE, SUITE A240
 ATHENS, GEORGIA 30605-2160

CONTACT: MR. MICHAEL B. THURMOND, PE
TEL: 706-546-8211

INDEX

LABEL	TITLE
G01	PROJECT SUMMARY
G02	GENERAL NOTES
G03	SITE PLAN
A01	FOUNDATION PLAN
A02	BASEMENT FLOOR PLAN
A03	FIRST FLOOR PLAN
A04	ATTIC PLAN
A05	BASEMENT FLOOR DIMENSIONED PLAN
A06	FIRST FLOOR DIMENSIONED PLAN
A07	DOOR AND WINDOW SCHEDULE
A08	FRONT ELEVATION
A09	REAR ELEVATION
A10	RIGHT ELEVATION
A11	LEFT ELEVATION
A12	MATERIALS
A13	ISOMETRIC VIEWS
A14	ISOMETRIC VIEWS
E01	ELECTRICAL NOTES
E02	BASEMENT POWER PLAN
E03	FIRST FLOOR POWER PLAN
E04	BASEMENT LIGHTING PLAN
E05	FIRST FLOOR LIGHTING PLAN
E06	ATTIC LIGHTING PLAN
F01	PLUMBING NOTES
F02	BASEMENT PLUMBING PLAN
F03	FIRST FLOOR PLUMBING PLAN
F04	BASEMENT SEWER PLAN
F05	FIRST FLOOR SEWER PLAN
M01	HVAC NOTES
M02	BASEMENT HVAC PLAN
M03	FIRST FLOOR HVAC PLAN

SHEET NUMBER

G01

SCALE @ 24" X 36"

DATE: 02-09-2024

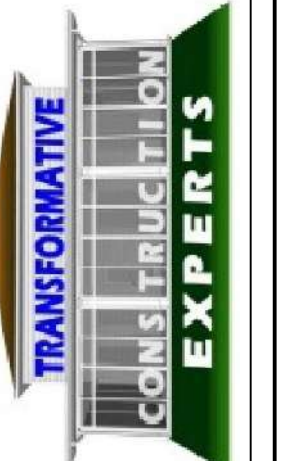
DRAWN BY: AK

PROJECT SUMMARY

145 & 155 W HOOVER ST,
 WESTFIELD, INDIANA 46074, USA

SINGLE-FAMILY
 RESIDENTIAL HOUSE

TRANSFORMATIVE
 TransformativeConstruction@gmail.com
 3975 Summit Circle NW
 Acworth, GA 30101



© 2024

GENERAL NOTES:

- 1 DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS GOVERN. ALL CLEAR DIMENSIONS ARE NOT TO BE ADJUSTED WITHOUT APPROVAL OF THE ARCHITECT. WHEN SHOWN IN PLAN, ALL DIMENSIONS ARE TO FACE OF STUD, CONCRETE, CENTERLINE OF COLUMNS, OR CENTERLINE OF WALL ASSEMBLIES, UNLESS OTHERWISE NOTED. WHEN SHOWN IN SECTION OR ELEVATION, ALL DIMENSIONS ARE TO TOP OF PLATE, TOP OF CONCRETE, OR TOP OF CEMENT-BASED UNDERLAYMENT UNLESS OTHERWISE NOTED. DIMENSIONS TO EXISTING ELEMENTS ARE TO FACE OF FINISH AT TIME EXISTING CONDITIONS ARE DOCUMENTED.
- 2 ARCHITECTURAL SERVICE AGREEMENT IS ONLY FOR DRAWINGS REQUIRED FOR PERMIT & APPROVAL. EXTENSIVE DRAWINGS & SPECIFICATIONS ARE NOT PART OF THIS AGREEMENT. COORDINATION, CODE COMPLIANCE, CONSTRUCTION DETAILING, & MECHANICAL, ELECTRICAL, & PLUMBING DESIGN IS THE RESPONSIBILITY OF THE CONTRACTOR AND/OR OTHER CONSULTANTS. THE PROFESSIONAL SERVICES OF THE ARCHITECT DO NOT EXTEND TO OR INCLUDE THE REVIEW OR OBSERVATION OF THE CONTRACTOR'S WORK OR PERFORMANCE.
- 3 CIVIL SITE ENGINEERING PERFORMED BY OTHERS. REFER TO THOSE DOCUMENTS FOR SITE RELATED ITEMS, INCLUDING BUT NOT LIMITED TO GRADING, WALKS AND STOOPS, ADA ACCESS, ZONING CRITERIA, FINISH FLOOR ELEVATION, ETC.
- 4 SUBMITTALS WILL BE REVIEWED BY THE ARCHITECT ONLY PURSUANT TO THE INDUSTRY-STANDARD PROTOCOL SET FORTH IN AIA DOCUMENT A201; AND IN NO EVENT WILL THE SUBMITTAL REVIEW PROCESS RELIEVE OR LESSEN THE SUBMITTING CONTRACTOR'S RESPONSIBILITY FOR AN INAPPROPRIATE SUBMITTAL.
- 5 DETAILS SHOWN ARE TYPICAL; SIMILAR DETAILS APPLY IN SIMILAR CONDITIONS.
- 6 PROVIDE AND INSTALL 2x FLAT WOOD BLOCKING OR 16 GA METAL STRAPPING FOR ALL BATH ACCESSORIES, HANDRAILS, CABINETS, TOWEL BARS, WALL MOUNTED FIXTURES AND ANY OTHER ITEMS ATTACHED TO WALLS.
- 7 ALL CHANGES IN FLOOR MATERIALS OCCUR AT CENTERLINE OF DOOR OR FRAMED OPENINGS UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
- 8 INSTALL ALL FIXTURES, EQUIPMENT, AND MATERIALS PER MANUFACTURER'S RECOMMENDATIONS AND THE REQUIREMENTS OF THE CODES. ALL APPLIANCES, FIXTURES, AND EQUIPMENT ASSOCIATED WITH PLUMBING, ELECTRICAL, AND MECHANICAL SYSTEMS SHALL BE LISTED BY A NATIONALLY RECOGNIZED AND APPROVED AGENCY. IF MANUFACTURER'S RECOMMENDATIONS & CODE REQUIREMENTS CONTRADICT THE CONTRACT DOCUMENTS, CONTRACTOR SHALL NOTIFY THE ARCHITECT, IN WRITING IMMEDIATELY, TO RESOLVE DISCREPANCIES PRIOR TO PROCEEDING.
- 9 THE FINISHED WORK SHALL BE FIRM, WELL ANCHORED, IN TRUE ALIGNMENT, PLUMB, LEVEL, WITH SMOOTH, CLEAN, UNIFORM APPEARANCE WITHOUT WAVES, DISTORTIONS, HOLES, MARKS, CRACKS, STAINS, OR DISCOLORATION. JOINTING SHALL BE TIGHT FITTING, NEAT AND WELL SCRIBED. THE FINISH WORK SHALL NOT HAVE EXPOSED UNSIGHTLY ANCHORS OR FASTENERS AND SHALL NOT PRESENT HAZARDOUS, UNSAFE CORNERS. ALL WORK SHALL HAVE THE PROVISION FOR EXPANSION CONTRACTION, AND SHRINKAGE AS NECESSARY TO PREVENT CRACKS, BUCKLING AND WARPING DUE TO TEMPERATURE AND HUMIDITY CONDITIONS.
- 10 ATTACHMENTS, CONNECTIONS, OR FASTENINGS OF ANY NATURE ARE TO BE PROPERLY AND PERMANENTLY SECURED IN CONFORMANCE WITH BEST PRACTICE AND THE CONTRACTOR IS RESPONSIBLE FOR IMPROVING THEM ACCORDING TO THESE CONDITIONS. THE DRAWINGS SHOW ONLY SPECIAL CONDITIONS TO ASSIST THE CONTRACTOR; THEY DO NOT ILLUSTRATE EVERY SUCH CONDITION AND DETAIL.
- 11 PROVIDE FIRE-BLOCKING & DRAFTSTOPPING AT ALL CONCEALED DRAFT OPENINGS (VERTICAL & HORIZONTAL) AS REQUIRED PER APPLICABLE CODES.
- 12 MECHANICAL, PLUMBING, ELECTRICAL, AND OTHER PENETRATIONS OF FLOORS, WALLS, AND CEILINGS SHALL BE SEALED AIRTIGHT WITH ACOUSTICAL SEALANT AND FIRESAFING AS REQUIRED.
- 13 ALL EXTERIOR DOORS AND WINDOWS ARE TO BE WEATHERSTRIPPED.
- 14 DISCREPANCIES: WHERE A CONFLICT IN REQUIREMENTS OCCURS BETWEEN THE SPECIFICATIONS AND DRAWINGS, OR ON THE DRAWINGS, AND A RESOLUTION IS NOT OBTAINED FROM THE ARCHITECT BEFORE THE BIDDING DATE, THE MORE STRINGENT ALTERNATE WILL BECOME THE CONTRACTUAL REQUIREMENTS.
- 15 ANY CHANGE OR FIELD ALTERATION SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO CONSTRUCTION.
- 16 THE FINISHED WORK SHALL BE FIRM, WELL ANCHORED, IN TRUE ALIGNMENT, PLUMB, LEVEL, WITH SMOOTH, CLEAN, UNIFORM APPEARANCE WITHOUT WAVES, DISTORTIONS, HOLES, MARKS, CRACKS, STAINS, OR DISCOLORATION. JOINTING SHALL BE TIGHT FITTING, NEAT AND WELL SCRIBED. THE FINISH WORK SHALL NOT HAVE EXPOSED UNSIGHTLY ANCHORS OR FASTENERS AND SHALL NOT PRESENT HAZARDOUS, UNSAFE CORNERS. ALL WORK SHALL HAVE THE PROVISION FOR EXPANSION CONTRACTION, AND SHRINKAGE AS NECESSARY TO PREVENT CRACKS, BUCKLING AND WARPING DUE TO TEMPERATURE AND HUMIDITY CONDITIONS.
- 17 CUT AND FIT COMPONENTS FOR ALTERATION OF EXISTING WORK AND INSTALLATION OF NEW WORK. PATCH DISTURBED AREAS TO MATCH ADJACENT MATERIALS AND FINISHES.
- 18 PATCH AND REPAIR ALL FIREPROOFING DAMAGED OR REMOVED DURING PERFORMANCE OF THE WORK. FIREPROOF NEW PENETRATIONS REQUIRED BY THE WORK AND EXISTING PENETRATIONS IN EXPOSED PLENUM AREAS.
- 19 MAKE ALL NECESSARY PROVISIONS FOR ITEMS TO BE FURNISHED OR INSTALLED BY OWNER. PROVIDE PROTECTION FOR THESE PROVISIONS UNTIL COMPLETION OF THE PROJECT. GENERAL CONTRACTOR TO COORDINATE N.I.C. ITEMS WITH APPROPRIATE TRADES.
- 20 ALL WORK SHALL BE PERFORMED BY LICENSED & INSURED CONTRACTORS. CONTRACTOR & ALL SUBCONTRACTORS MUST SUPPLY PROOF OF INSURANCE, LIABILITY, & WORKMAN'S COMPENSATION.
- 1 THE GENERAL CONTRACTOR SHALL CONTINUOUSLY CHECK ARCHITECTURAL & STRUCTURAL CLEARANCE FOR ACCESSIBILITY OF EQUIPMENT & MEP SYSTEMS AND THAT NO CONFLICTS EXIST IN LOCATIONS OF ANY AND ALL MECHANICAL, TELEPHONE, ELECTRICAL, PLUMBING AND SPRINKLER EQUIPMENT AND ALL REQUIRED CLEARANCES FOR INSTALLATION AND MAINTENANCE OF ALL ABOVE EQUIPMENT ARE PROVIDED. WHAT ELEMENTS ARE TO BE EXPOSED OR CONCEALED SHALL BE DETERMINED AND REVIEWED WITH ARCHITECT PRIOR TO CONSTRUCTION PROCEEDING.
- 2 THE CONTRACTOR IS RESPONSIBLE FOR MEANS, METHODS, AND TECHNIQUES FOR CONSTRUCTION.
- 3 ALL OSHA REGULATIONS SHALL BE FOLLOWED. THE GENERAL CONTRACTOR & EACH SUB-CONTRACTOR IS RESPONSIBLE FOR JOB-SITE SAFETY.
- 4 UNLESS NOTED OTHERWISE, ALL MATERIALS AND EQUIPMENT ARE TO BE INSTALLED PER THE APPLICABLE PROVISIONS OF THESE DOCUMENTS AND THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- 5 CONTRACTOR TO VERIFY ALL FRAMING MEMBERS FOR LIVE AND DEAD LOAD SUPPORT.
- 6 IN USING THESE PLANS FOR BIDDING OR CONSTRUCTION PURPOSES, ALL CONTRACTORS ARE REQUIRED TO REVIEW AND TREAT THEM AS A WHOLE IN ORDER TO IDENTIFY ALL REQUIREMENTS THAT DIRECTLY OR INDIRECTLY AFFECT THEIR PORTION OF THE WORK; EVEN REQUIREMENTS LOCATED IN SECTIONS DESIGNATED AS APPLICABLE TO OTHER TRADES. IN CASE OF CONFLICTS, THE AFFECTED CONTRACTOR IS REQUIRED TO EITHER OBTAIN DIRECTION FROM AN APPROPRIATE REPRESENTATIVE OF THE OWNER, OR OTHERWISE APPLY THE MORE STRINGENT LOCATIONS.
- 7 THESE PLANS ARE INTENDED TO SET FORTH THE REQUIREMENTS FOR CONSTRUCTION IN ONLY AN INDUSTRY-STANDARD LEVEL OF QUALITY AND DETAIL; AND THEY ARE INTENDED TO BE SUPPLEMENTED BY APPROPRIATE REQUESTS FOR CLARIFICATION AND INFORMATION. CONTRACTORS ARE REQUIRED TO REVIEW THESE PLANS FOR ERRORS AND OMISSIONS, AND BRING THESE TO THE ATTENTION OF AN APPROPRIATE OWNER REPRESENTATIVE IN A TIMELY MANNER; AND ANY CONTRACTOR WHO FAILS TO DO SO BEFORE BIDDING OR OTHERWISE PROCEEDING ASSUMES THE RISK OF ANY CONSEQUENCES. CONTRACTORS PROCEED AT THEIR OWN RISK IF THEY FAIL TO VERIFY FIELD MEASURE DIMENSIONS BEFORE PROCEEDING WITH ANY AFFECTED PROCUREMENT, FABRICATION, OR CONSTRUCTION. SCHEMATIC PLANS ARE INTENDED ONLY TO DEMONSTRATE THE RELATIONSHIP AMONG COMPONENT PARTS, AND NOT TO DEPICT SPECIFIC LOCATIONS.
- 8 THE GENERAL CONTRACTOR SHALL VERIFY AND ASSUME RESPONSIBILITY FOR ALL DIMENSIONS AND SITE CONDITIONS. THE GENERAL CONTRACTOR SHALL INSPECT THE EXISTING PREMISES AND TAKE NOTE OF EXISTING CONDITIONS PRIOR TO SUBMITTING PRICES. NO CLAIM SHALL BE ALLOWED FOR DIFFICULTIES ENCOUNTERED WHICH COULD HAVE REASONABLY BEEN INFERRED FROM SUCH AN EXAMINATION. ANY VARIATIONS OR DISCREPANCIES SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION PRIOR TO CONSTRUCTION.
- 9 CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION BETWEEN ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING, & ELECTRICAL SYSTEMS. THIS INCLUDES REVIEWING REQUIREMENTS OF INDIVIDUAL SYSTEMS BEFORE ORDERING AND INSTALLATION OF ANY WORK. VERIFY ALL ARCHITECTURAL DETAILS AND ALL FINISH CONDITIONS (WHETHER DEPICTED IN DRAWINGS OR NOT) WITH SAME DISCIPLINES.
- 10 THE CONTRACTOR SHALL BE RESPONSIBLE FOR APPLYING AND OBTAINING ALL REQUIRED INSPECTIONS & PERMITS. ALL WORK SHALL CONFORM WITH LOCAL & NATIONAL BUILDING & FIRE CODES.
- 11 CONTRACTOR IS RESPONSIBLE FOR SECURING SITE FROM WEATHER & THEFT FOR THE DURATION OF THE PROJECT.
- 12 THE SITE SHALL BE KEPT CLEAN & ORDERLY AT ALL TIMES. TRASH SHALL BE REMOVED ON A DAILY BASIS.
- 13 CONTRACTOR TO SUPPLY ALL INSPECTION APPROVALS & LIEN WAIVERS PRIOR TO RELEASE OF RETAINAGE.
- 14 GENERAL CONTRACTOR SHALL COORDINATE THE LAYOUT AND EXACT LOCATIONS OF ALL PARTITIONS, DOORS, ELECTRICAL/TELEPHONE OUTLETS AND LIGHT SWITCHES WITH ARCHITECT BEFORE PROCEEDING WITH CONSTRUCTION.
- 15 GENERAL CONTRACTOR IS RESPONSIBLE FOR AND SHALL PROVIDE PROTECTION FOR ANY INSTALLED BUILDING FINISHES.
- 16 ALL SHOP DRAWINGS AND LAYOUTS SHALL BE SUBMITTED AS SOON AS POSSIBLE AFTER AWARD OF CONTRACT TO THE ARCHITECT ALLOWING TEN (10) WORKING DAYS FOR REVIEW. NO CONSTRUCTION SHALL PROCEED UNTIL THE APPROVAL OF THESE DRAWINGS. MEP AND FIRE PROTECTION NEED TO BE REVIEWED BY THE ARCHITECT AT THE SAME TIME.
- 17 CONTRACTOR TO VERIFY CLEARANCES FOR FLUES, VENTS, CHASES, SOFFITS, FIXTURES, FIREPLACES, ETC., BEFORE ANY CONSTRUCTION, ORDERING OF, OR INSTALLATION OF ANY ITEM OF WORK.
- 18 EXERCISE EXTREME CARE AND PRECAUTION DURING CONSTRUCTION OF THE WORK TO MINIMIZE DISTURBANCES TO ADJACENT STRUCTURES AND THEIR OCCUPANTS, PROPERTY, PUBLIC THOROUGHFARES, ETC. CONTRACTOR SHALL TAKE PRECAUTIONS AND BE RESPONSIBLE FOR THE SAFETY OF ALL BUILDING OCCUPANTS FROM CONSTRUCTION PROCEDURES.
- 19 THE CONTRACT DOCUMENTS ARE THE INSTRUMENTS OF SERVICE AND SHALL REMAIN THE PROPERTY OF THE ARCHITECT WHETHER THE PROJECT FOR WHICH THEY ARE PREPARED IS EXECUTED OR NOT. THE CONTRACT DOCUMENTS ARE NOT TO BE USED BY THE OWNER FOR OTHER PROJECTS OR EXTENSIONS TO THE PROJECT NOR ARE THEY TO BE MODIFIED IN ANY MANNER WHATSOEVER EXCEPT BY AGREEMENT IN WRITING AND WITH APPROPRIATE COMPENSATION TO THE ARCHITECT.
- 20 ALL EGRESS DOORS SHALL BE READILY OPERABLE FROM THE EGRESS SIDE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT. NO BOLTS, HOOKS, OR SIMILAR DEVICES SHALL BE USED. INSTALLATION SHALL BE IN ACCORDANCE WITH IBC BUILDING CODE; APPLICABLE EDITION.

SHEET NUMBER

G02

SCALE @ 24" X 36"

DATE: 02-09-2024

DRAWN BY: AK

GENERAL NOTES

145 & 155 W HOOVER ST,
WESTFIELD, INDIANA 46074, USA

**SINGLE-FAMILY
RESIDENTIAL HOUSE**

TRANSFORMATIVE

TransformativeConstruction@gmail.com
3975 Summit Circle NW
Acworth, GA 30101

© 2024



HOME OWNER: MELODY JONES

PROJECT ADDRESS: PROPOSED SINGLE-FAMILY RESIDENTIAL BUILDING
145 & 155 W HOOVER ST, WESTFIELD,
INDIANA 46074, USA

LEGAL ADDRESS: SECTION 36, TOWNSHIP 19, RANGE 3, JUNCTION NORTH,
LOT 1 & 2, IRREGULAR SHAPE

FIRE DISTRICT: 12

WATER DISTRICT: WASHINGTON, IN

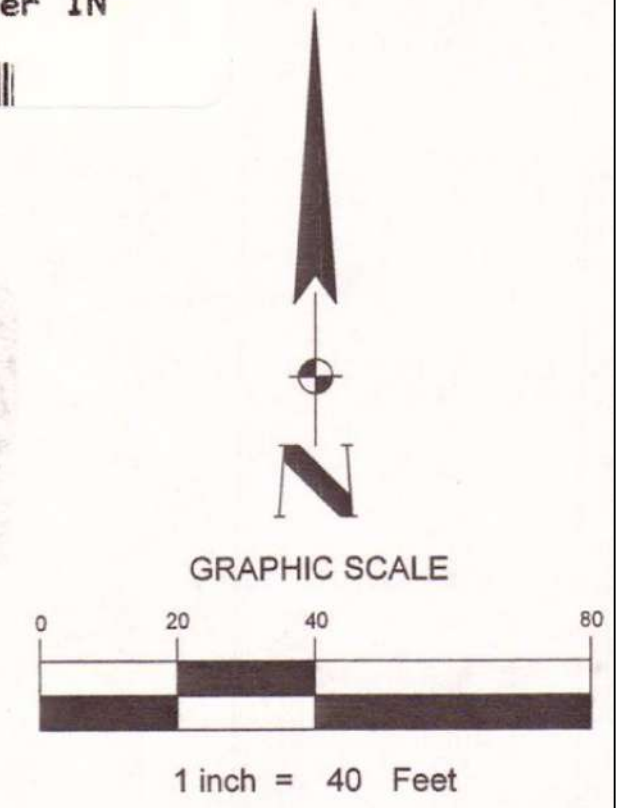
BUILDING AREA: BASEMENT: 4,040.5 SQ. FT.
MAIN FLOOR: 2,330.5 SQ. FT.
BASEMENT: 1,632.2 SQ. FT.
FOUNDATION: 3,940.0 SQ. FT.
GARAGE: 912.6 SQ. FT.
DECKS & PORCH: 796.0 SQ. FT.

Minor Subdivision Plat of Junction North

Part of Section 36, Township 19 North, Range 3 East
located in City of Westfield, Washington Township, Hamilton County, Indiana

2017054500 PLAT \$40.00
11/02/2017 01:16:09P 4 PGS
Jennifer Hayden
HAMILTON County Recorder IN
Recorded as Presented

DULY ENTERED FOR TAXATION
Subject to final acceptance for transfer
day of November, 2017
Robin M. Thies Auditor of Hamilton County
Parcel #



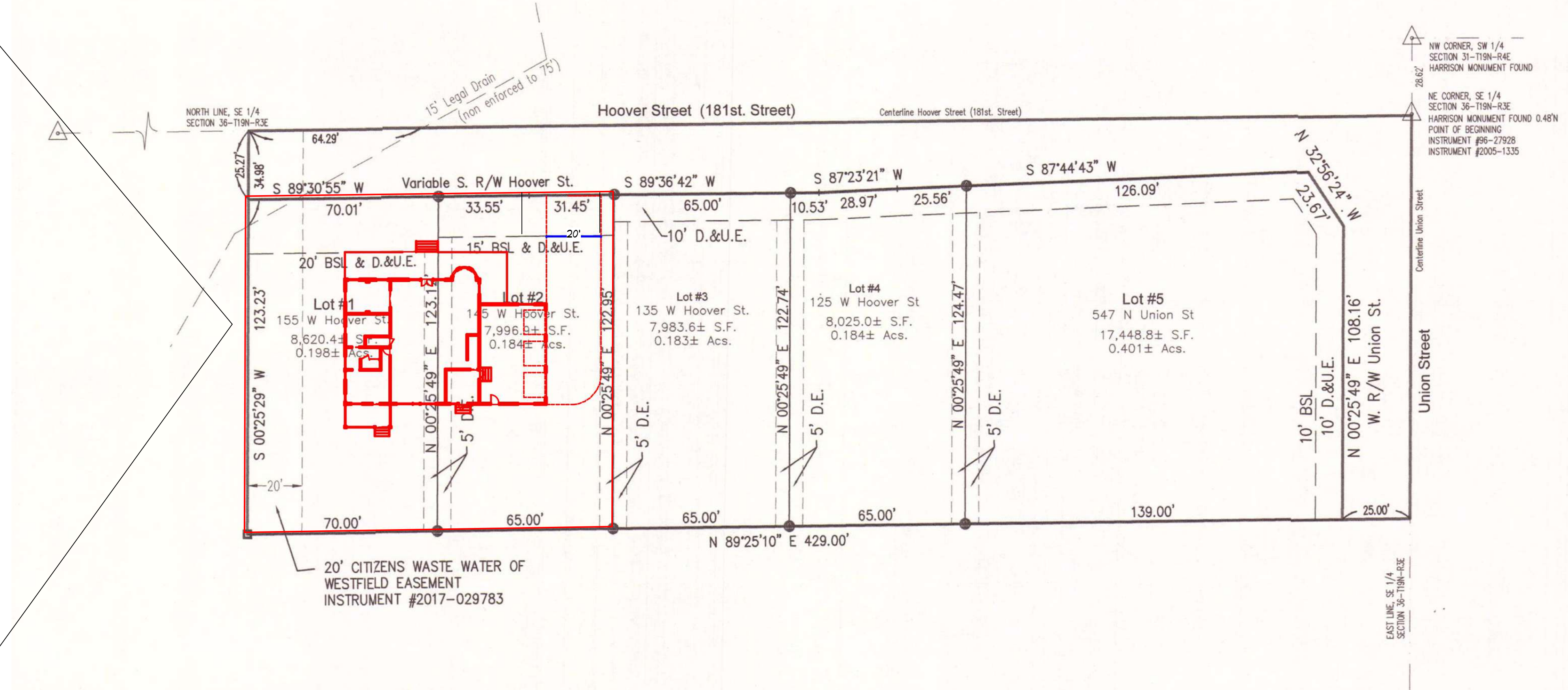
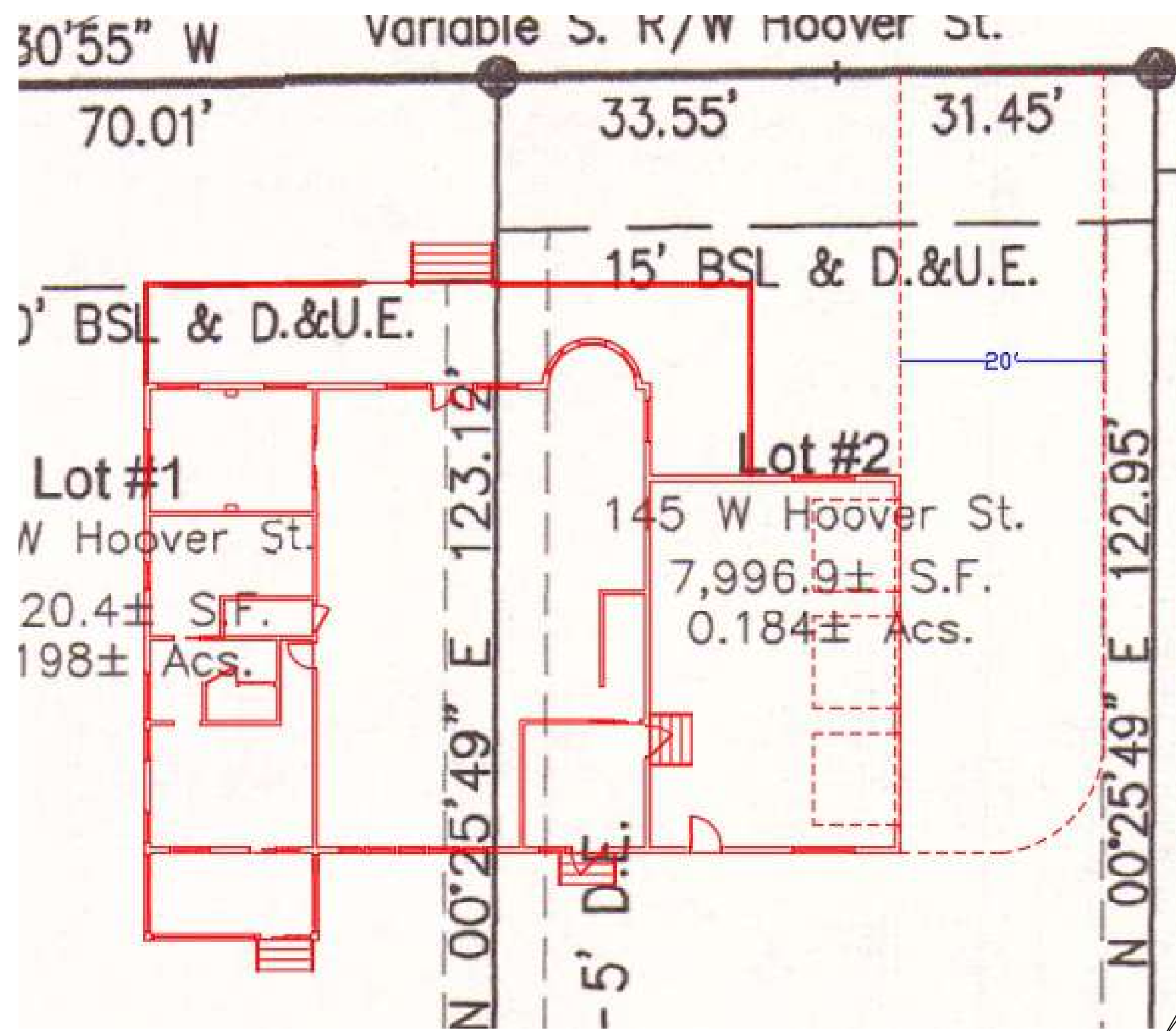
SHEET NUMBER

G03

SCALE @ 24" X 36"

DATE: 02-09-2024

DRAWN BY: AK



PROJECT STATISTICS:

LOT SIZE: 16,553 SQ. FT.
ANTICIPATED DISTURBED AREA: 5540.5 SQ. FT.
BUILDING ENVELOPE: 4,040.5 SQ. FT.
ROOF AREA: 4,322.5 SQ. FT.
FRONT HEIGHT AT RIDGE: FT.
REAR HEIGHT AT RIDGE: FT.

SOIL TYPE:
SOIL DENSITY:
FROST DEPTH:
SEISMIC ZONE:
WIND:

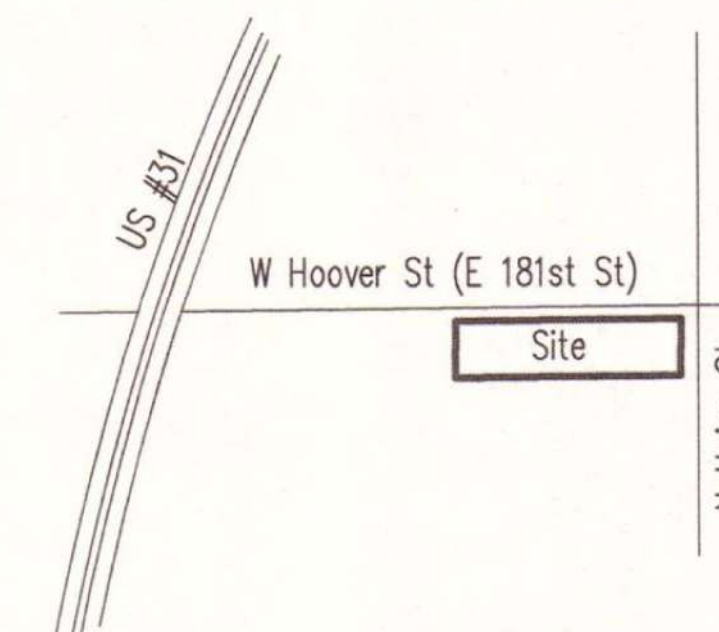
SITE PLAN NOTES:

1. SITE SURVEY TO BE COMPLETED TO VERIFY PIN LOCATIONS AND HOME LOCATION PRIOR TO EXCAVATION.
2. CALL BEFORE YOU DIG: 800.428.4950

GRADING NOTES:

1. CONTRACTOR TO VERIFY LOCATION OF ALL EXISTING UTILITIES.
2. PROVIDE POSITIVE DRAINAGE AWAY FROM BUILDING.
3. FINAL GRADE TO CONVEY SURFACE DRAINAGE TOWARD ROCK CHANNELS AND DISPERSION TRENCHES.
4. AREAS TO BE FILLED SHALL BE CLEARED, GRUBBED TO REMOVE TREES, VEGETATION, ROOTS AND OTHER OBJECTIONABLE MATERIAL AND STRIPPED OF TOPSOIL.
5. PLACE FILL SLOPES WITH A GRADIENT STEEPER THAT 3:1 IN LIFTS NOT TO EXCEED 8 INCHES, AND MAKE SURE EACH LIFT IS PROPERLY COMPACTED.

VICINITY MAP - NOT TO SCALE



LEGEND

- R/W = RIGHT-OF-WAY
- CENTERLINE
- BSL = BUILDING SETBACK LINE
- LOT LINES
- PLAT BOUNDARY LINE
- DRAINAGE EASEMENT
- DRAINAGE & UTILITY EASEMENT.
- 5" STEEL REBAR WITH YELLOW PLASTIC CAP SCRIBED SEA GROUP "FIRM 0091" SET FLUSH WITH GRADE
- 4"x4" Concrete Markers per Sub Cont Ord.

Owner & Developer
Matthew S Skelton & Teresa O. Skelton
547 N Union St
Westfield, Indiana 46074
317-762-8810

Source of Title
Matthew S. & Teresa O. Skelton
Instrument #2003-22435

Teresa A. Otis
Instrument #96-27928

Matthew S. & Teresa O. Skelton
Instrument #2005-1335

Prepared By:
SEA Group, LLC, Brian Rismiller, LS
494 Gradle Drive, Carmel, Indiana 46032
Ph: 317-844-3333
info@seagroupllc.com

I, Brian C. Rismiller, affirm under penalties for perjury, that I have taken reasonable care to redact each Social Security number in this document, unless required by law.



494 Gradle Drive Phone: 317.844.3333
Carmel, IN 46032 Fax: 317.844.3383

www.SEAgroupLLC.com
BRIAN C. RISMILLER R.L.S. NO. LS200200083

SITE PLAN

145 & 155 W HOOVER ST,
WESTFIELD, INDIANA 46074, USA

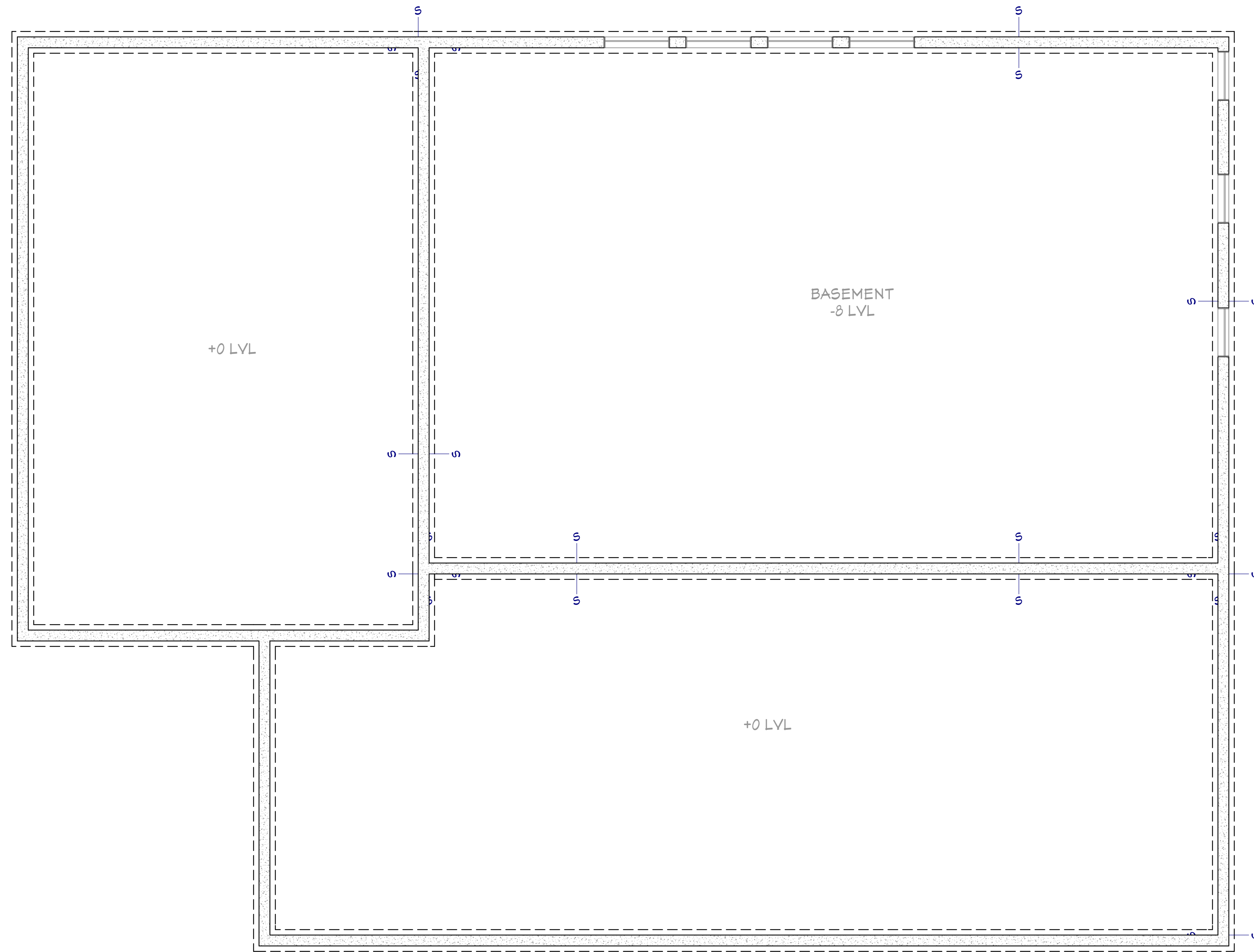
**SINGLE-FAMILY
RESIDENTIAL HOUSE**

TRANSFORMATIVE

TransformativeConstruction@gmail.com
3975 Summit Circle NW
Acworth, GA 30101

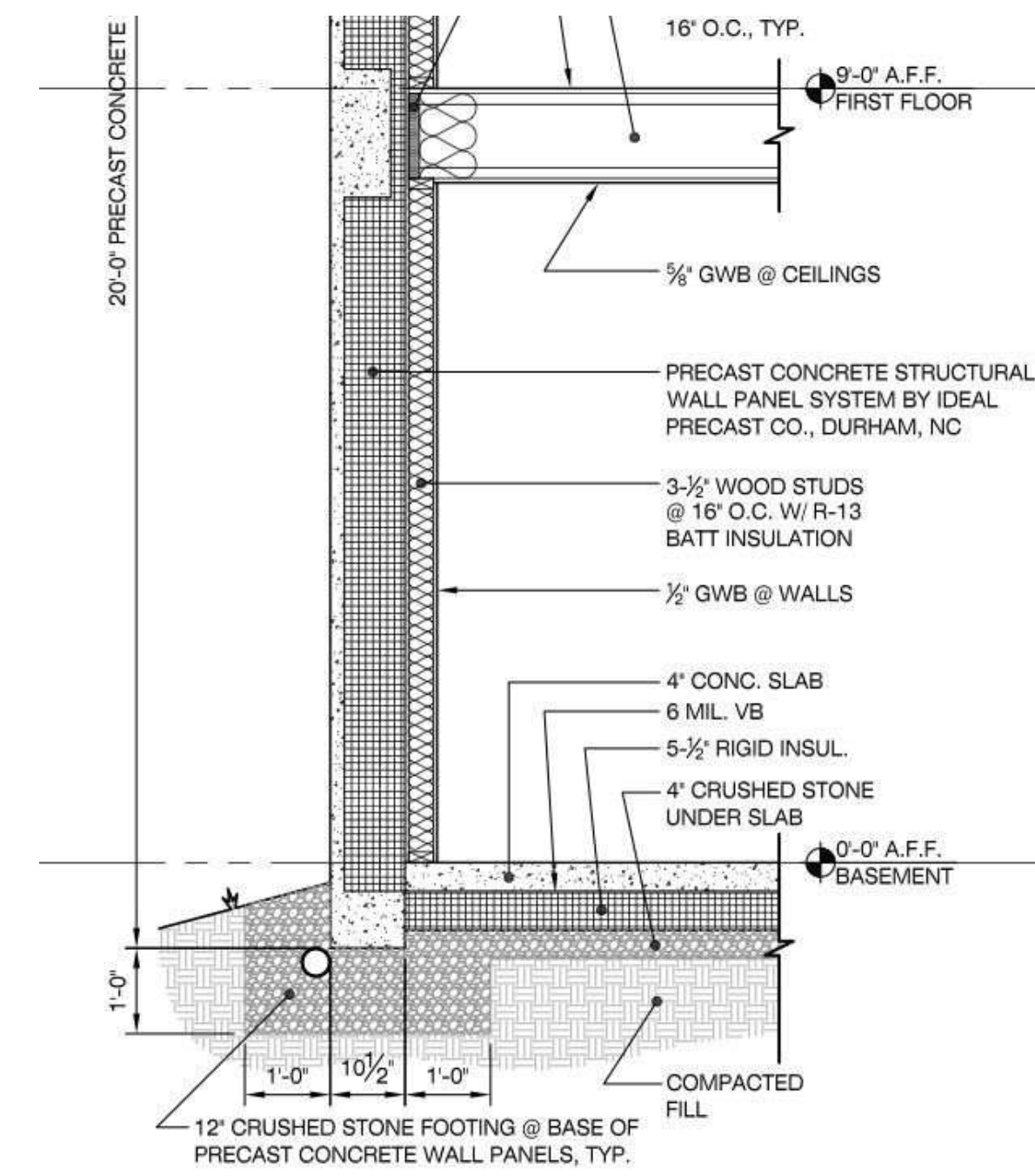


© 2024



WALL SCHEDULE	
2D SYMBOL	WALL TYPE
	8" CONCRETE STEM WALL
	DECK RAILING/FENCE
	INTERIOR-4
	INTERIOR-6
	SIDING-6

FOUNDATION PLAN
1/4"=1'



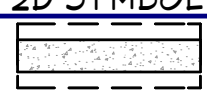




FOOTING DETAIL
NTS

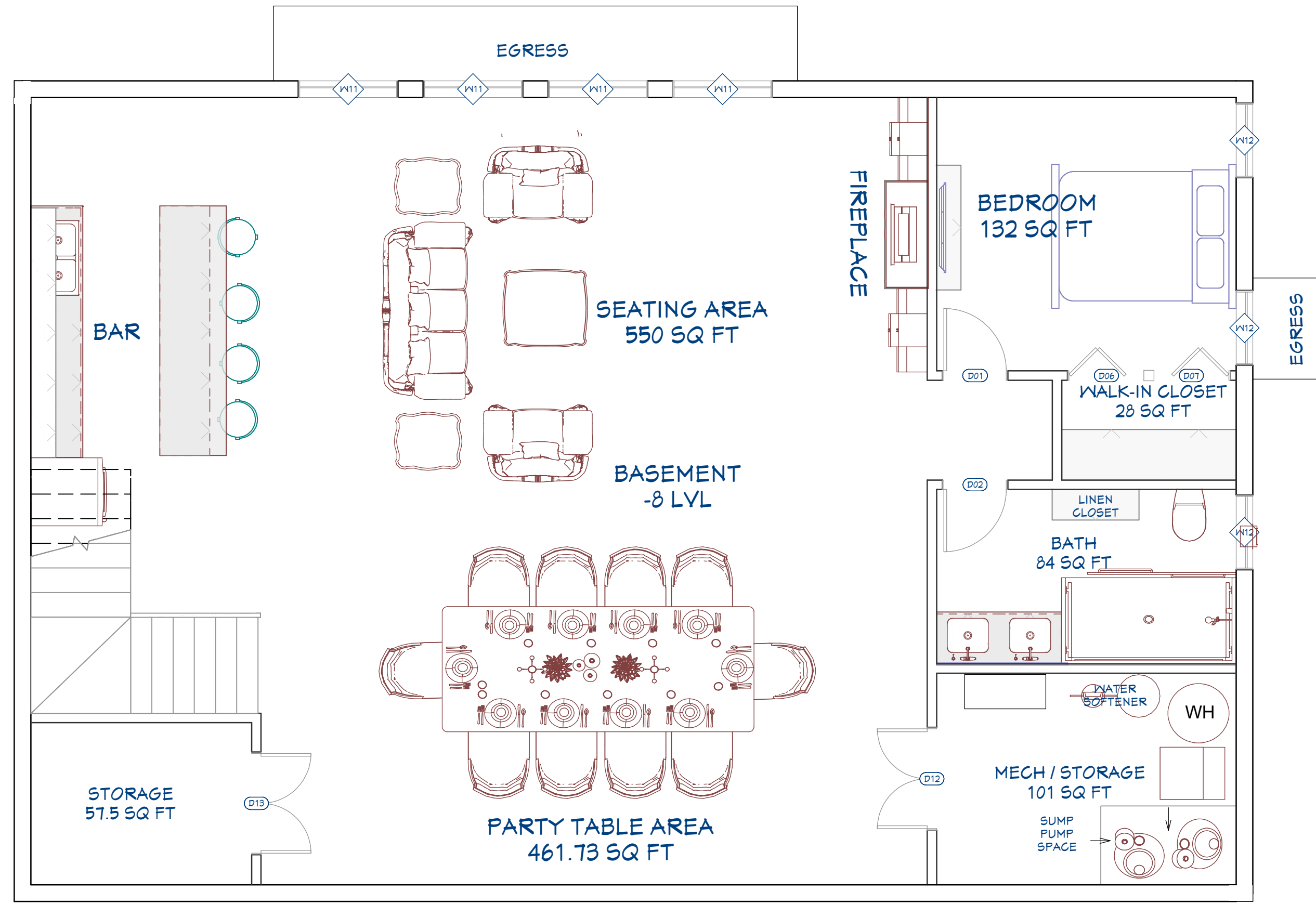
FOUNDATION NOTES

- FOUNDATIONS TO BEAR A MINIMUM OF 24" BELOW FINISH GRADE
- ALL ANCHOR BOLTS TO BE 5/8" DIA X 10 @ 32" O/C UNO. SEE SHEAR PLANS FOR HOLD DOWN DETAILS
- ALL REINFORCING STEEL SHALL BE ASTM A-615, GRADE 60
- ALL REINFORCING STEEL TO OVERLAP A MINIMUM OF 24" FOR SPLICES FOR #4 BARS & 36" FOR #5 BARS
- PROVIDE CORNER BARS TO MATCH CONTINUOUS STEEL
- MINIMUM ALLOWABLE CONCRETE COMPRESSIVE STRENGTH SHALL BE 3,000 PSI (DESIGNED AS 2,500 PSI) AT 28 DAYS. MAXIMUM AGGREGATE SIZE IS 1". MAXIMUM AIR ENTRAINMENT IS 3%. CEMENT SHOULD BE TYPE 1 OR 2
- SOIL BEARING CAPACITY ASSUMED TO BE 2,000 PSF. IF SOIL CONDITIONS VARY FROM THIS, THE PROJECT ENGINEER MUST BE NOTIFIED. ALL FOOTINGS MUST BEAR ON UNDISTURBED SOIL. ALL SLOPES MUST BE STABILIZED
- ADJACENT GROUND SURFACES SHALL BE SLOPED AWAY FROM STRUCTURE DRAINAGE OF SURROUNDING AREA SHALL ALSO BE PROVIDED TO PREVENT ACCUMULATION OF SOIL AND EROSION OF SOIL NEAR FOOTINGS
- UNIFORM SOIL CONDITIONS, MUST BE PROVIDED UNDER SLAB AND FOOTINGS. CUT/FILL OR NON-UNIFORM SOIL CONDITIONS SHOULD BE EXCAVATED AND REPLACED W/ UNIFORM ENGINEERED FILL MATERIAL TO MINIMIZE DIFFERENTIAL MOVEMENT
- THE TOPS OF FOUNDATION WALLS SHALL EXTEND 6" ABOVE THE ADJACENT FINISH GRADE
- MINIMUM 18" CLEARANCE FOR WOOD JOIST GIRDERS REQUIRED IN THE GARAGE CRAWL SPACE UNLESS TREATED WOOD IS USED THROUGHOUT FLOOR SYSTEM

FOUNDATION PLAN

145 & 155 W HOOVER ST,
WESTFIELD, INDIANA 46074, USA
**SINGLE-FAMILY
RESIDENTIAL HOUSE**

WALL SCHEDULE	
2D SYMBOL	WALL TYPE
	8" CONCRETE STEM WALL
	DECK RAILING/FENCE
	INTERIOR-4
	INTERIOR-6
	SIDING-6



BASEMENT FLOOR PLAN

1/4"=1'



SHEET NUMBER

A02

SCALE @ 24" X 36"

DATE: 02-09-2024

DRAWN BY: AK

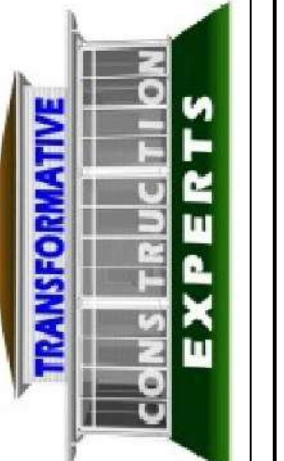
BASEMENT FLOOR PLAN

145 & 155 W HOOVER ST,
WESTFIELD, INDIANA 46074, USA

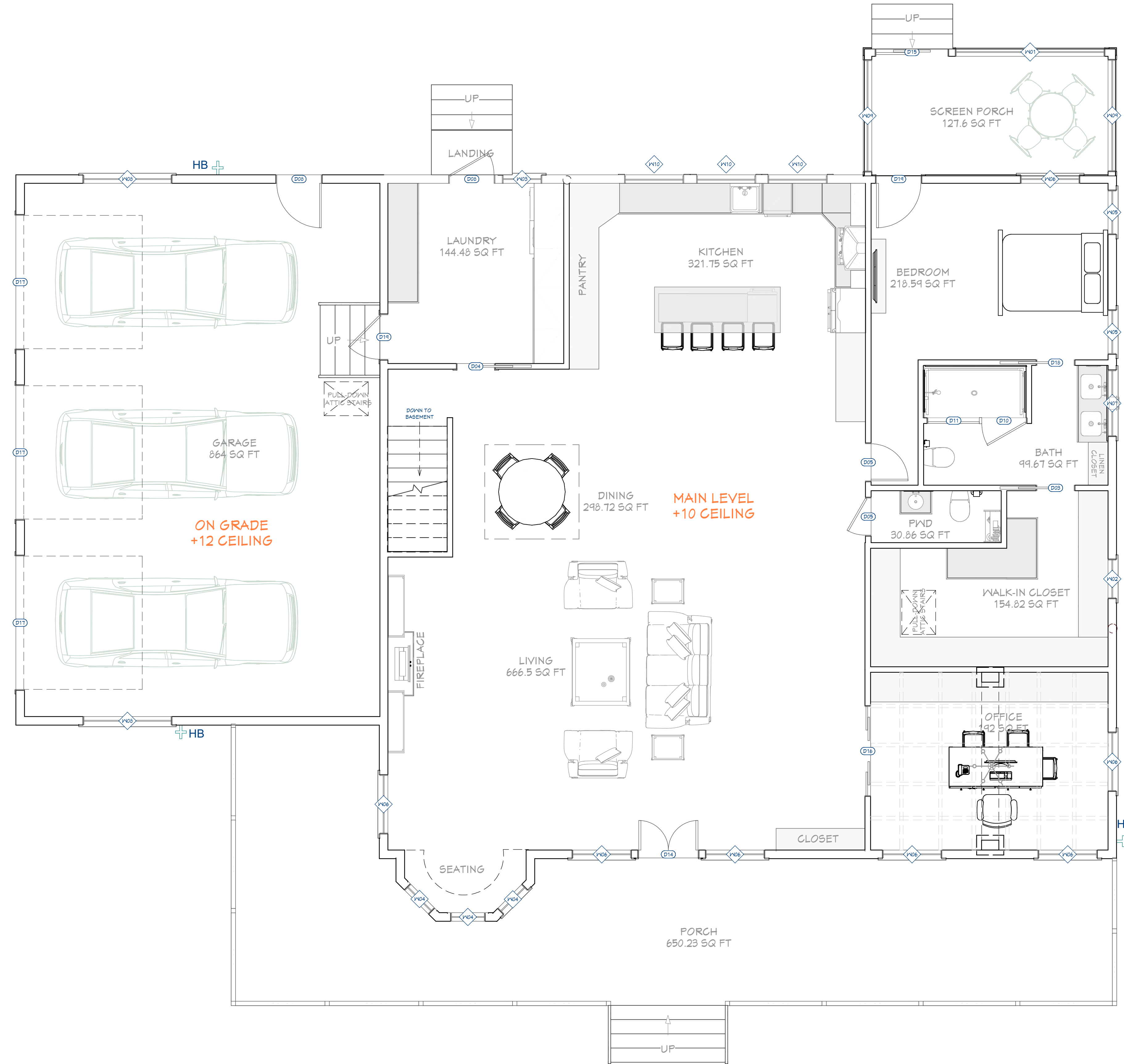
**SINGLE-FAMILY
RESIDENTIAL HOUSE**

TRANSFORMATIVE

© 2024
TransformativeConstruction@gmail.com
3975 Summit Circle NW
Acworth, GA 30101



WALL SCHEDULE	
2D SYMBOL	WALL TYPE
	8" CONCRETE STEM WALL
	DECK RAILING/FENCE
	INTERIOR-4
	INTERIOR-6
	SIDING-6



FIRST FLOOR PLAN
1/4"=1'



SHEET NUMBER

A03

SCALE @ 24" X 36"

DATE: 02-09-2024

DRAWN BY: AK

FIRST FLOOR PLAN






145 & 155 W HOOVER ST,
WESTFIELD, INDIANA 46074, USA

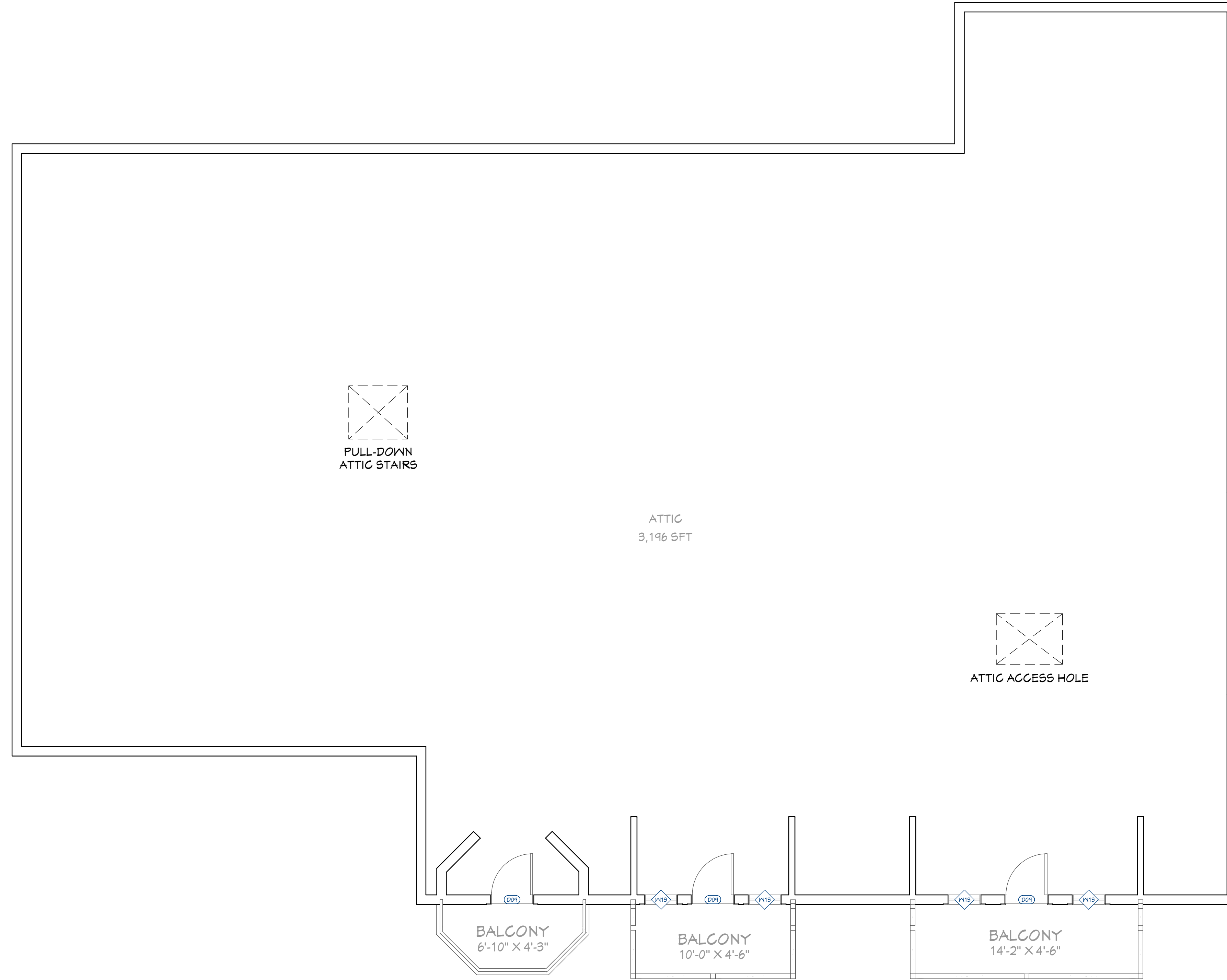
**SINGLE-FAMILY
RESIDENTIAL HOUSE**

TRANSFORMATIVE
TransformativeConstruction@gmail.com
3975 Summit Circle NW
Acworth, GA 30101

© 2024



WALL SCHEDULE	
2D SYMBOL	WALL TYPE
	8" CONCRETE STEM WALL
	DECK RAILING/FENCE
	INTERIOR-4
	INTERIOR-6
	SIDING-6



ATTIC PLAN
1/4"=1'



SHEET NUMBER
A04

SCALE @ 24" X 36"
DATE: 02-09-2024
DRAWN BY: AK

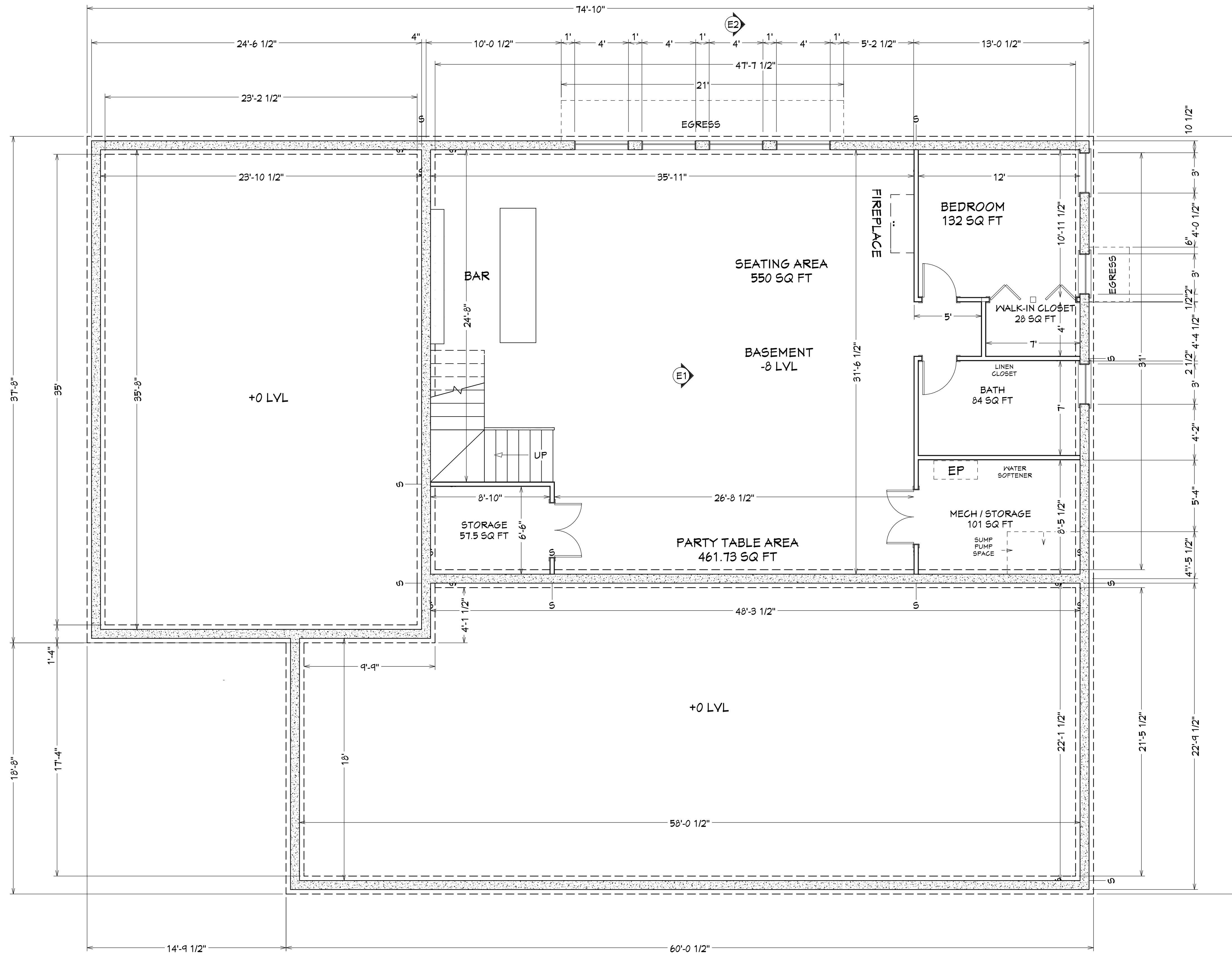
ATTIC PLAN

145 & 155 W HOOVER ST,
WESTFIELD, INDIANA 46074, USA
**SINGLE-FAMILY
RESIDENTIAL HOUSE**

TRANSFORMATIVE
TRANSFORMATIVE CONSTRUCTION
EXPERTS

© 2024
TransformativeConstruction@gmail.com
3975 Summit Circle NW
Acworth, GA 30101

WALL SCHEDULE	
2D SYMBOL	WALL TYPE
	8" CONCRETE STEM WALL
	DECK RAILING/FENCE
	INTERIOR-4
	INTERIOR-6
	SIDING-6



BASEMENT FLOOR DIMENSIONED PLAN
1/4"=1'

SHEET NUMBER
A05

SCALE @ 24" X 36"
DATE: 02-09-2024
DRAWN BY: AK

**BASEMENT FLOOR
DIMENSIONED PLAN**

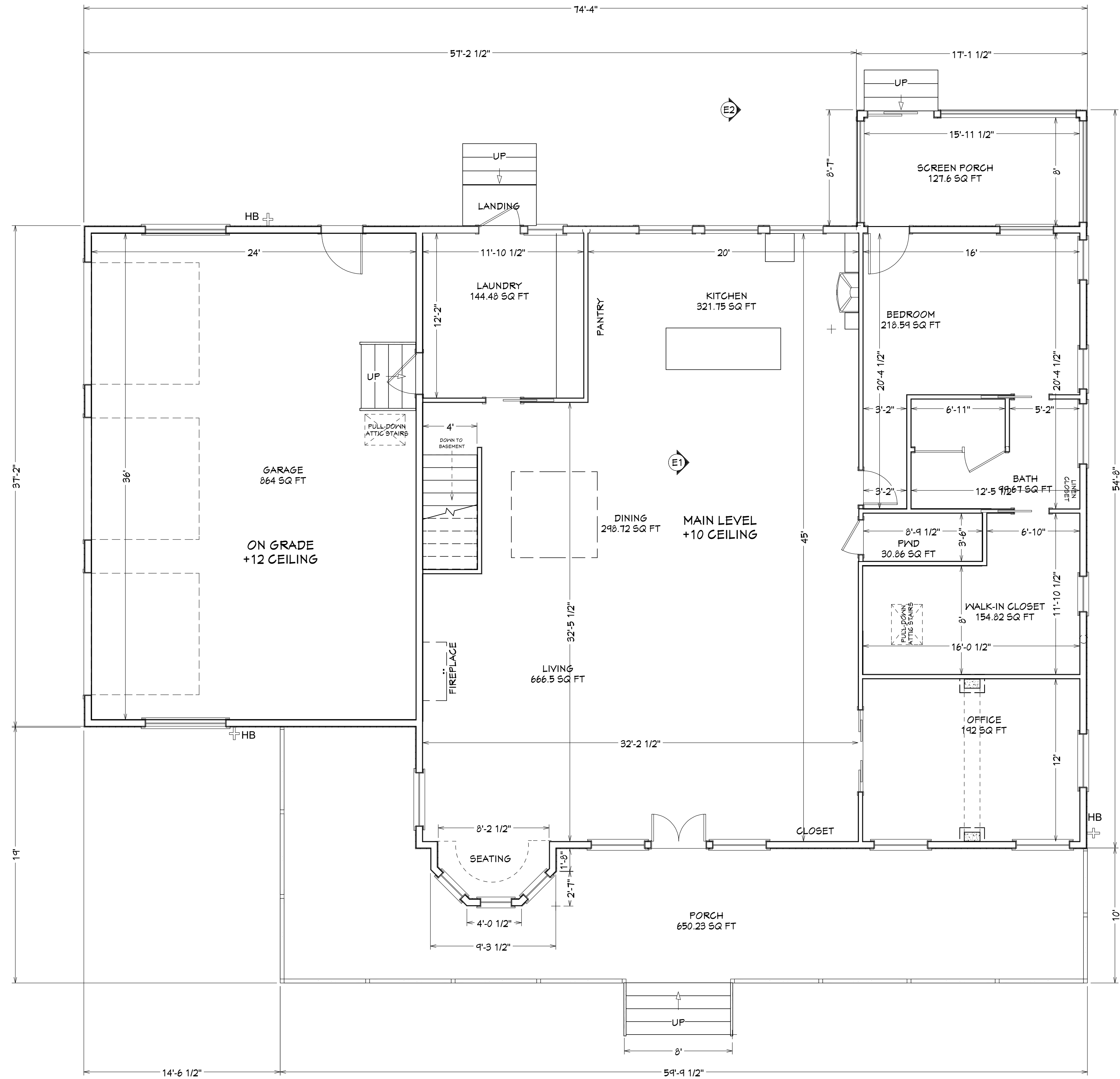
145 & 155 W HOOVER ST,
WESTFIELD, INDIANA 46074, USA
**SINGLE-FAMILY
RESIDENTIAL HOUSE**

TRANSFORMATIVE
TransformativeConstruction@gmail.com
3975 Summit Circle NW
Acworth, GA 30101



© 2024

WALL SCHEDULE	
2D SYMBOL	WALL TYPE
	8" CONCRETE STEM WALL
	DECK RAILING/FENCE
	INTERIOR-4
	INTERIOR-6
	SIDING-6



FIRST FLOOR DIMENSIONED PLAN

1/4"=1'



SHEET NUMBER
A06

SCALE @ 24" X 36"
DATE: 02-09-2024
DRAWN BY: AK

**FIRST FLOOR
DIMENSIONED PLAN**

145 & 155 W HOOVER ST,
WESTFIELD, INDIANA 46074, USA
**SINGLE-FAMILY
RESIDENTIAL HOUSE**

TRANSFORMATIVE
TransformativeConstruction@gmail.com
3975 Summit Circle NW
Acworth, GA 30101
© 2024



DOOR SCHEDULE							
DOOR ELEVATION NUMBER	CASE	QTY	DOOR CASE	DOOR	DESCRIPTION	HEADER	
D01	2661	1	0	2661 L IN	32"x61" 18"	HINGED-DOOR P04	2"x6"x39" (2)
D02	2661	1	0	2661 R IN	32"x61" 18"	HINGED-DOOR P04	2"x6"x39" (2)
D03	2668	1	1	2668 R	61" 1/4"x62" 1/2"	POCKET-DOOR P04	2"x6"x64" 1/4" (2)
D04	2668	1	1	2668 R EX	61" 1/4"x62" 1/2"	EXT. POCKET-DOOR P04	2"x6"x61" 1/4" (2)
D05	2668	2	1	2668 R IN	32"x62" 1/2"	HINGED-DOOR P04	2"x6"x39" (2)
D06	3068	1	0	3068 L	38"x62" 1/2"	3 DR. BIFOLD-LOUVERED	2"x6"x41" (2)
D07	3068	1	0	3068 R	38"x62" 1/2"	2 DR. BIFOLD-LOUVERED	2"x6"x41" (2)
D08	3068	2	1	3068 L IN	38"x62" 1/2"	HINGED-DOOR P04	2"x6"x41" (2)
D09	2670	3	2	2670 R EX	32"x61"	EXT. HINGED-DOOR E21	2"x6"x52" (2)
D10	3070	1	1	3070 L IN	31" 1/8"x66" 1/2"	HINGED-601 MIRROR DOOR	2"x6"x49" 1/8" (2)
D11	3670	1	1	3670	49" 5/8"x61"	FIXED-601 MIRROR DOOR	2"x6"x49" 5/8" (2)
D12	4061	1	0	4061 L/R IN	50"x61" 18"	DOUBLE HINGED-DOOR P04	2"x6"x50" (2)
D13	4061	1	0	4061 L/R IN	50"x61" 18"	DOUBLE HINGED-DOOR P04	2"x6"x53" (2)
D14	4068	1	1	4068 L/R EX	50"x63"	EXT. DOUBLE HINGED-DOOR E21	2"x6"x53" (2)
D15	41076	1	1	41076 R EX	60"x63"	EXT. SLIDER-GLASS PANEL	2"x6"x63" (2)
D16	6068	1	1	6068 L/R IN	74"x62" 1/2"	GLAD SLIDER-DOOR P04	2"x6"x77" (2)
D17	9030	3	1	9030	110"x91"	GARAGE-GARAGE DOOR CHD09	2"x12"x118" (2)
D18	2668	1	1	2668 R	61" 1/4"x62" 1/2"	POCKET-DOOR P04	2"x6"x61" 1/4" (2)
D19	3068	2	1	3068 R EX	38"x63"	EXT. HINGED-DOOR E21	2"x6"x41" (2)

WINDOW SCHEDULE							
WINDOW ELEVATION NUMBER	CASE	QTY	WINDOW CASE	WINDOW	DESCRIPTION	HEADER	
W01	10176AH	1	1	10176AH	22"x81"	SINGLE AWNING	2"x12"x125" (2)
W02	20128C	1	1	20128C	33"x19"	SINGLE CASEMENT-HL	2"x6"x36" (2)
W03	2034DH	1	1	2034DH	33"x40" 10"	DOUBLE HUNG	2"x6"x36" (2)
W04	2440DH	3	1	2440DH	24"x41"	DOUBLE HUNG	2"x6"x32" (2)
W05	3040DH	2	1	3040DH	37"x41"	DOUBLE HUNG	2"x6"x40" (2)
W06	4040DH	1	1	4040DH	44"x41"	DOUBLE HUNG	2"x6"x52" (2)
W07	4616SC	1	1	4616SC	55"x14"	SINGLE CASEMENT-HL	2"x6"x36" (2)
W08	6040DH	2	1	6040DH	73"x41"	DOUBLE HUNG	2"x10"x76" (2)
W09	7776AH	2	1	7776AH	81" 3/4"x81"	SINGLE AWNING	2"x10"x94" 3/4" (2)
W10	4090	3	1	4090	44"x61"	FIXED GLASS-GT	2"x6"x52" (2)
W11	4016DH	4	0	4016DH	44"x14"	DOUBLE HUNG	2"x6"x52" (2)
W12	3016DH	3	0	3016DH	37"x14"	DOUBLE HUNG	2"x6"x40" (2)
W13	20110DH	4	2	20110DH	28"x23" 1/4"	DOUBLE HUNG	2"x6"x23" (2)

WINDOW NOTES:

- 1 WOOD WINDOWS WITH GLAD EXTERIOR
- 2 INTERIOR WINDOW MATERIALS: PAINTED OR STAINED WITH FACTORY FINISH, VERIFY WITH OWNER
- 3 WINDOW HARDWARE TO BE OWNER SELECTED AT TIME OF ORDER
- 4 WINDOW ROUGH OPENING: 1/2" FOR TOP/BOTTOM & 1/2" FOR SIDES, UNO BY MFG
- 5 SEE WINDOW SCHEDULE CALLOUT FOR WINDOWS THAT USE A WOOD OR STEEL BEAM FOR THE HEADER
- 6 BEDROOM WINDOWS SILL FINISHED MUST BE WITHIN 44" OF THE FLOOR AND PROVIDE MINIMUM CLEAR OPENINGS OF 5.7 SQ. FEET WITH HEIGHT DIMENSION NOT LESS THAN 24" AND WIDTH DIMENSION NOT LESS THAN 20" - HRC R310.1-R310.1.4

DOOR NOTES:

1. DOORS SHALL BE 96", UNO
2. ALL DOORS SHALL BE SOLID CORE 1 3/4" THICK, UNO
3. INTERIOR DOORS SHALL BE PAINTED OR STAINED, VERIFY WITH OWNER
4. DOORS BETWEEN GARAGE AND LIVING AREA SHALL BE 1 3/4" TIGHT FITTING SOLID CORE DOORS WITH A RATING OF 60 MINUTES. DOOR SHALL BE SELF CLOSING
5. EXTERIOR EXIT DOORS SHALL BE 36" MIN. NET CLEAR DOOR WAY SHALL BE 32" MIN. DOOR SHALL BE OPENABLE FROM INSIDE
6. GARAGE DOORS TO BE SECTIONAL INSULATED, OVERHEAD DOORS. GLASS PANELS TO BE INSULATED
7. ALL GLAZING WITHIN 18 IN. OF THE FLOOR AND/OR WITHIN 24 IN. OF ANY DOOR (REGARDLESS OF WALL PLANE) ARE TO HAVE SAFETY GLAZING
8. ALL TUB AND SHOWER ENCLOSURES ARE TO BE GLAZED WITH SAFETY GLASS
9. BARN DOORS, MEASURE TO FIT OPENING. ALL HARDWARE TO BE STAINLESS, UNO

SHEET NUMBER

A07

SCALE @ 24" X 36"

DATE: 02-09-2024

DRAWN BY: AK

DOOR AND WINDOW SCHEDULE

145 & 155 W HOOVER ST,
WESTFIELD, INDIANA 46074, USA

SINGLE-FAMILY
RESIDENTIAL HOUSE

TRANSFORMATIVE
CONSTRUCTION
EXPERTS

© 2024
TransformativeConstruction@gmail.com
3975 Summit Circle NW
Acworth, GA 30101



FRONT ELEVATION

SHEET NUMBER

A08

SCALE @ 24" X 36"

DATE: 02-09-2024

DRAWN BY: AK

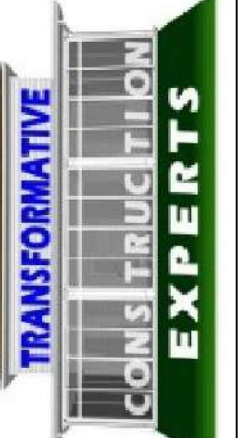
FRONT ELEVATION

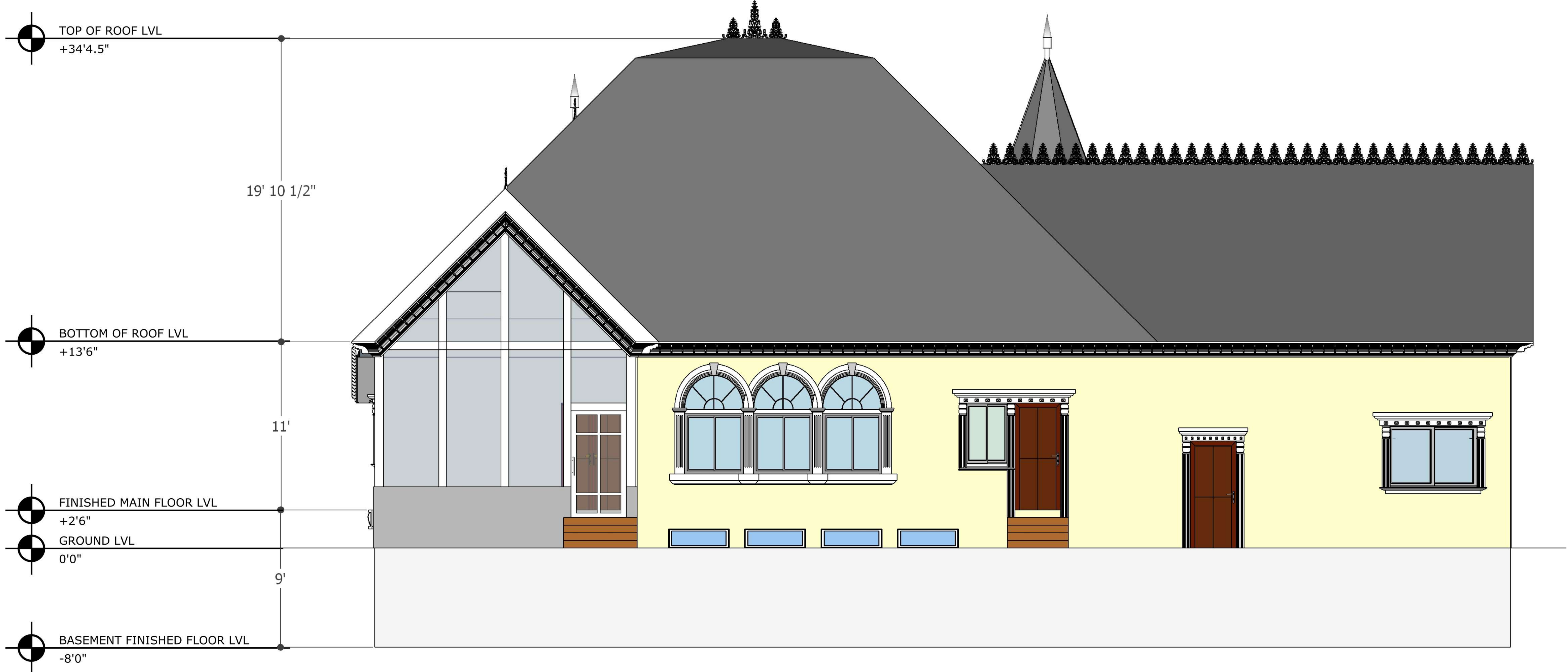
145 & 155 W HOOVER ST,
WESTFIELD, INDIANA 46074, USA

**SINGLE-FAMILY
RESIDENTIAL HOUSE**

TRANSFORMATIVE

© 2024
TransformativeConstruction@gmail.com
3975 Summit Circle NW
Acworth, GA 30101






REAR ELEVATION

SHEET NUMBER

A09

SCALE @ 24" X 36"

DATE: 02-09-2024

DRAWN BY: AK

REAR ELEVATION

145 & 155 W HOOVER ST,
WESTFIELD, INDIANA 46074, USA

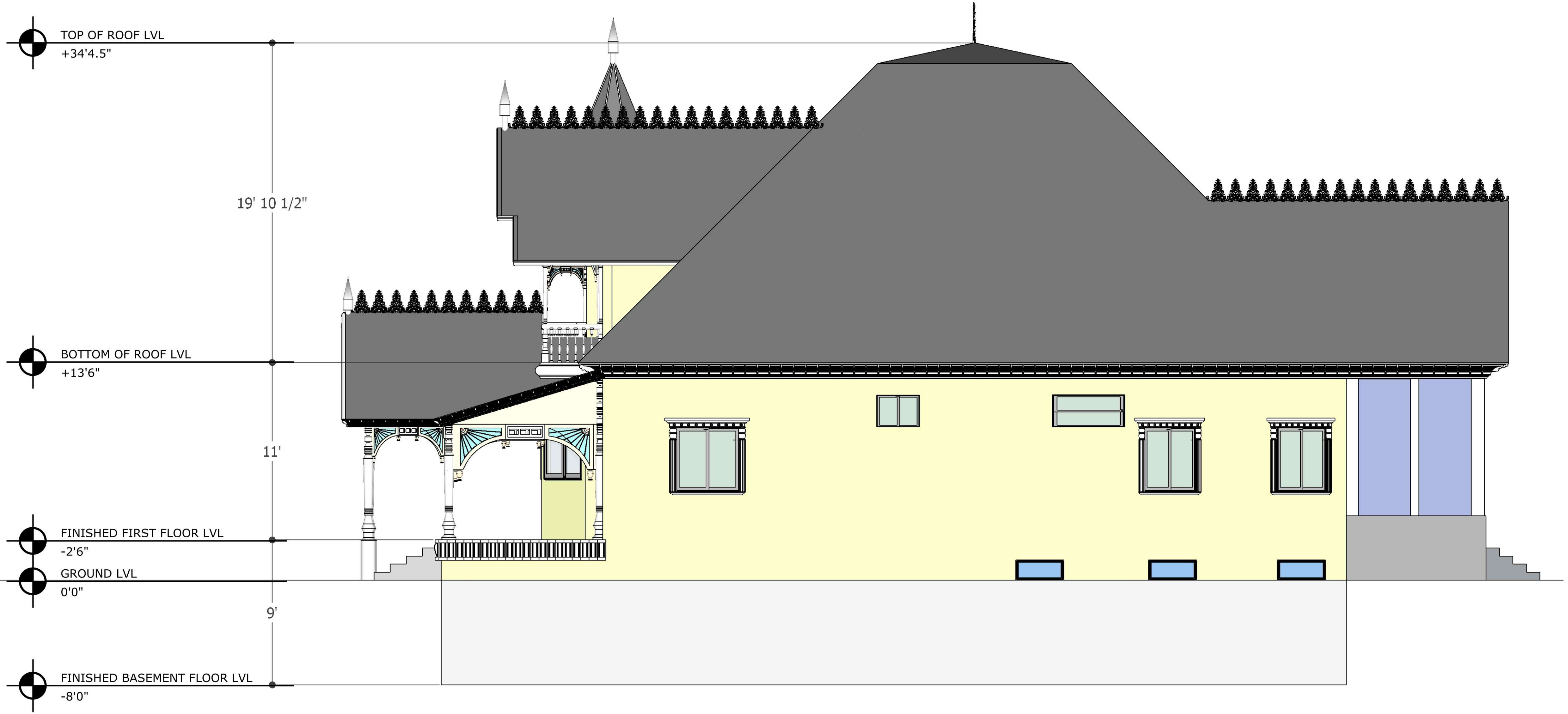
**SINGLE-FAMILY
RESIDENTIAL HOUSE**

TRANSFORMATIVE

TransformativeConstruction@gmail.com
3975 Summit Circle NW
Acworth, GA 30101



© 2024



RIGHT ELEVATION

SHEET NUMBER
A10

SCALE @ 24" X 36"
DATE: 02-09-2024
DRAWN BY: AK

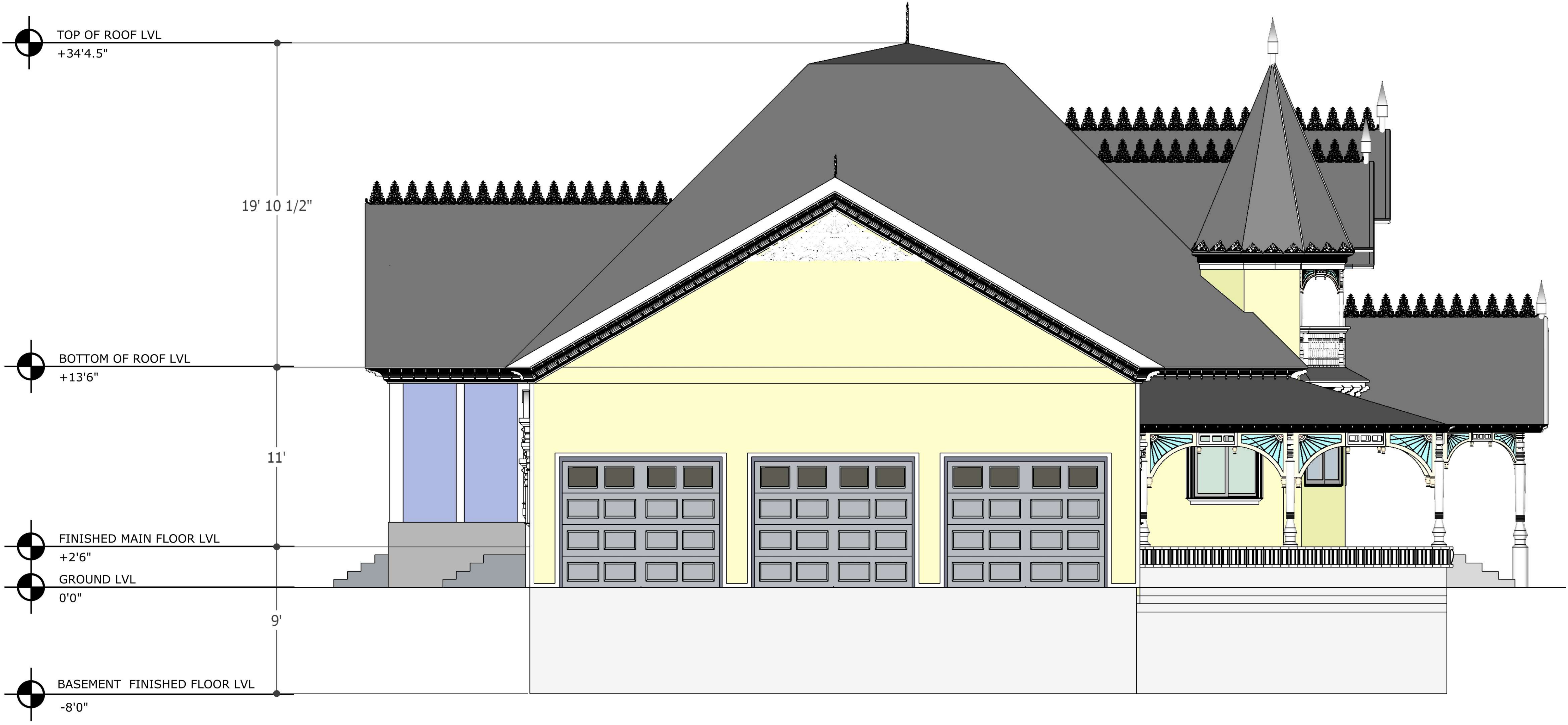
RIGHT ELEVATION

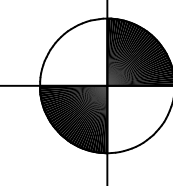
145 & 155 W HOOVER ST,
WESTFIELD, INDIANA 46074, USA
**SINGLE-FAMILY
RESIDENTIAL HOUSE**

TRANSFORMATIVE
TransformativeConstruction@gmail.com
3975 Summit Circle NW
Acworth, GA 30101



© 2024




LEFT ELEVATION

SHEET NUMBER
A11

SCALE @ 24" X 36"
DATE: 02-09-2024
DRAWN BY: AK

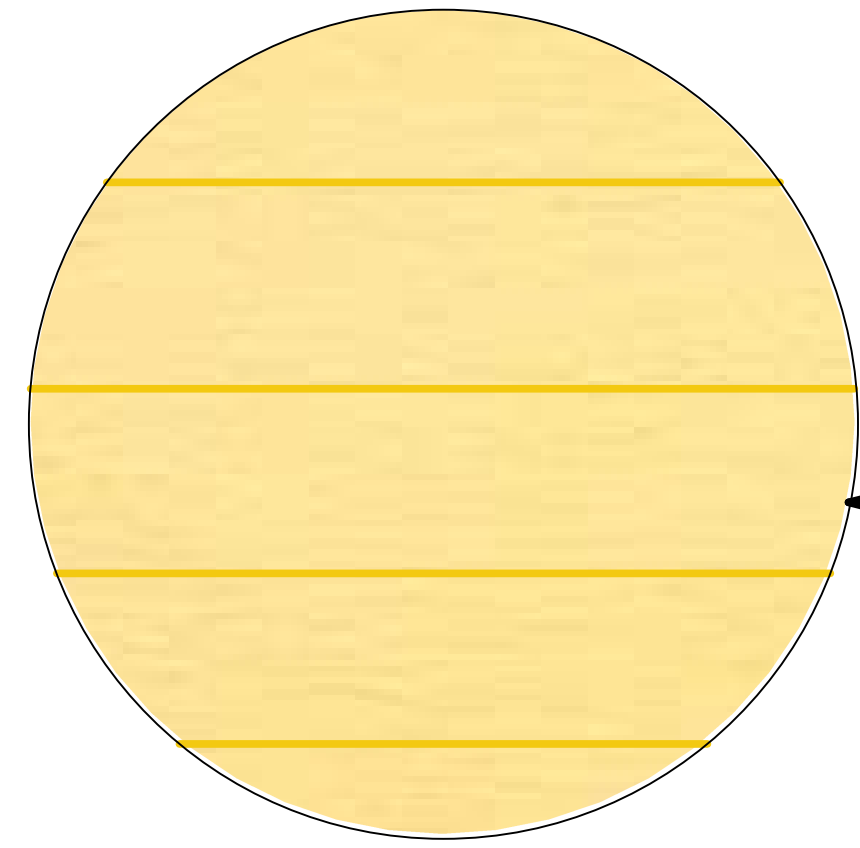
LEFT ELEVATION

145 & 155 W HOOVER ST,
WESTFIELD, INDIANA 46074, USA
**SINGLE-FAMILY
RESIDENTIAL HOUSE**

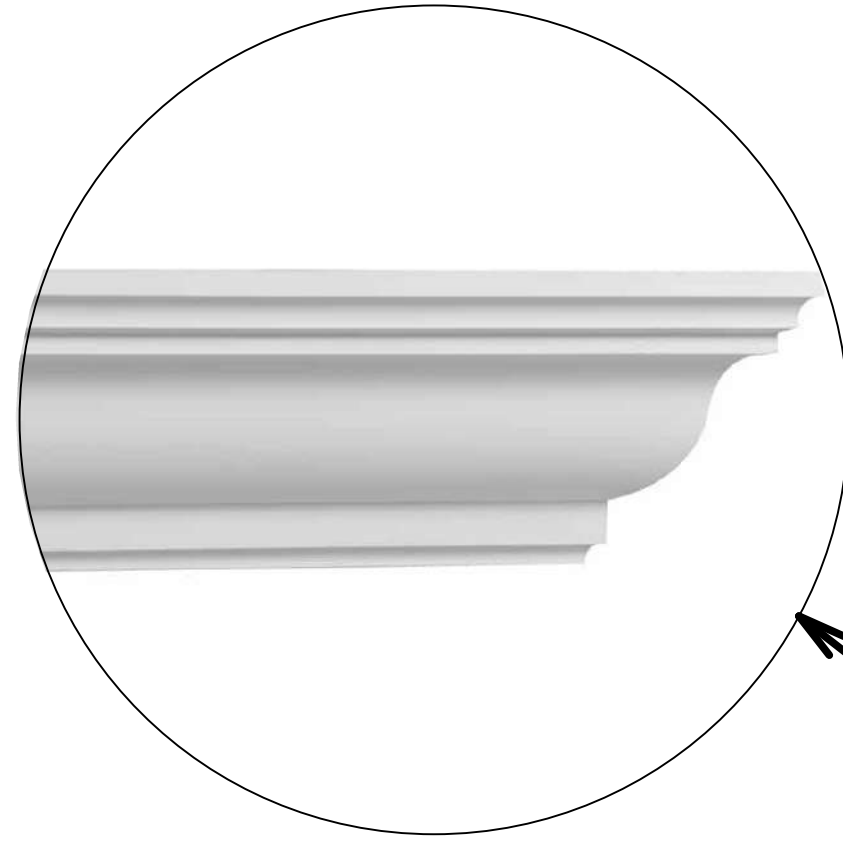
TRANSFORMATIVE
TransformativeConstruction@gmail.com
3975 Summit Circle NW
Acworth, GA 30101



© 2024



HARDIE™ PLANK 7.5 MM THICK FIBRE CEMENT WEATHERBOARD WITH 2 WOODGRAIN TEXTURE



POLYURETHANE CORNICE MOULDING



THREE-TAB ASPHALT ROOF SHINGLES



SHEET NUMBER

A12

SCALE @ 24" X 36"

DATE: 02-09-2024

DRAWN BY: AK

MATERIALS

145 & 155 W HOOVER ST,
WESTFIELD, INDIANA 46074, USA

**SINGLE-FAMILY
RESIDENTIAL HOUSE**

TRANSFORMATIVE

© 2024
TransformativeConstruction@gmail.com
3975 Summit Circle NW
Acworth, GA 30101





FRONT ELEVATION



RIGHT ELEVATION



REAR ELEVATION



LEFT ELEVATION

SHEET NUMBER

A13

SCALE @ 24" X 36"

DATE: 02-09-2024

DRAWN BY: AK

ISOMETRIC VIEWS

145 & 155 W HOOVER ST,
WESTFIELD, INDIANA 46074, USA

**SINGLE-FAMILY
RESIDENTIAL HOUSE**

TRANSFORMATIVE

© 2024
TransformativeConstruction@gmail.com
3975 Summit Circle NW
Acworth, GA 30101





VIEW A



VIEW B



VIEW C



VIEW D

SHEET NUMBER
A14

SCALE @ 24" X 36"
DATE: 02-09-2024
DRAWN BY: AK

ISOMETRIC VIEWS

145 & 155 W HOOVER ST,
WESTFIELD, INDIANA 46074, USA
**SINGLE-FAMILY
RESIDENTIAL HOUSE**

TRANSFORMATIVE
TransformativeConstruction@gmail.com
3975 Summit Circle NW
Acworth, GA 30101



© 2024

SPECIFICATIONS

A. APPLICABLE CODE

CONTRACTOR SHALL FOLLOW ALL APPLICABLE GOVERNING CODES AS WELL AS ANY STATE AMENDMENTS. CONTRACTOR SHALL ENSURE CORRECT EDITION IS REFERENCED ACCORDING TO CODE ADOPTION BY STATE AND PERMITTING AGENCIES. APPLICABLE CODES INCLUDE BUT ARE NOT LIMITED TO:

- INTERNATIONAL ENERGY CONSERVATION CODE (IECC)
INTERNATIONAL FIRE CODE (IFC), 2018 EDITION
NATIONAL ELECTRICAL CODE (NFPA 70), 2020 EDITION
STATE ACCESSIBILITY CODE FOR BUILDINGS AND FACILITIES

B. GENERAL NOTES

- 1. CONTRACTOR SHALL REFER TO ALL RELATED DOCUMENTS, ARCHITECTURAL, STRUCTURAL, CIVIL, AND MEP DRAWINGS, AND FULLY UNDERSTAND THE SCOPE OF WORK AND CONDITION OF CONSTRUCTION.
2. BIDDERS ARE TO VISIT THE SITE AND FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS AND SATISFY THEMSELVES AS TO THE NATURE AND SCOPE OF WORK.
3. ALL REQUIRED INSURANCE SHALL BE PROVIDED FOR PROTECTION AGAINST PUBLIC LIABILITY OF PROPERTY DAMAGE FOR THE DURATION OF THE WORK.
4. CONTRACTOR TO PAY FOR ALL PERMITS, FEES, INSPECTIONS AND TESTING.
5. IT IS NOT THE INTENT OF THESE PLANS TO SHOW EVERY MINOR DETAIL OF CONSTRUCTION.
6. THE ELECTRICAL CONTRACTOR SHALL MEET AND COORDINATE WITH THE LOCAL POWER COMPANY AT THE SITE PRIOR TO CONSTRUCTION.
7. CONTRACTOR SHALL MAINTAIN A COMPLETE SET OF CONTRACT DRAWINGS AT JOB SITE WITH COLORED MARKINGS INDICATING PROGRESS OF WORK.
8. THE OWNER RESERVES THE RIGHT TO REVISE THE DRAWING FROM TIME TO TIME TO INDICATE CHANGES IN THE WORK.
9. IF THE ELECTRICAL CONTRACTOR HAS QUESTIONS, OR IN THEIR OPINION FINDS OMISSIONS OR ERRORS ON ELECTRICAL DOCUMENTS, IT IS THEIR RESPONSIBILITY TO BRING THIS TO THE ATTENTION OF THE ELECTRICAL ENGINEER/ARCHITECT/OWNER IMMEDIATELY.
10. THE SHORT-CIRCUIT COORDINATION STUDY SHALL BE PERFORMED BY THE MANUFACTURER OF THE ELECTRICAL EQUIPMENTS.

C. SUBMITTALS/SHOP DRAWINGS

- 1. CONTRACTOR SHALL PROVIDE SHOP DRAWING SUBMITTALS FOR LIGHT FIXTURES, SWITCHGEAR, WIRING DEVICES, EMERGENCY GENERATOR/TRANSFER EQUIPMENT, AND ALL SYSTEMS (FIRE ALARM, SECURITY, ETC.). PROVIDE TWO (2) COPIES, TEN (10) DAYS PRIOR TO BID DATE FOR ENGINEER'S APPROVAL.
2. ALL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR IN A FIRST-CLASS WORKMANLIKE MANNER.
3. ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROGRESS OF CONSTRUCTION.
4. CONTRACTOR TO GUARANTEE ALL MATERIALS AND WORKMANSHIP FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN ONE (1) YEAR FROM DATE OF ACCEPTANCE UNLESS INDICATED OTHERWISE IN THE WRITTEN SPECIFICATIONS.
5. CORRECTION OF ANY DEFECTS TO BE COMPLETED WITHOUT ADDITIONAL CHARGE AND TO INCLUDE REPLACEMENT OR REPAIR OF ANY OTHER PHASE OF THE INSTALLATION WHICH MAY HAVE BEEN DAMAGED THEREBY.

D. QUALITY OF WORK

- 1. MATERIALS AND INSTALLATION, AS A MINIMUM, ARE TO CONFORM WITH THE APPLICABLE EDITION, INCLUDING REVISIONS, AMENDMENTS, AND REFERENCED CODES AND STANDARDS, NATIONAL ELECTRICAL CODE, WHERE APPLICABLE.
2. ALL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR IN A FIRST-CLASS WORKMANLIKE MANNER.
3. ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROGRESS OF CONSTRUCTION.
4. CONTRACTOR TO GUARANTEE ALL MATERIALS AND WORKMANSHIP FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN ONE (1) YEAR FROM DATE OF ACCEPTANCE UNLESS INDICATED OTHERWISE IN THE WRITTEN SPECIFICATIONS.
5. CORRECTION OF ANY DEFECTS TO BE COMPLETED WITHOUT ADDITIONAL CHARGE AND TO INCLUDE REPLACEMENT OR REPAIR OF ANY OTHER PHASE OF THE INSTALLATION WHICH MAY HAVE BEEN DAMAGED THEREBY.

E. CONDUITS AND RACEWAYS

- 1. ALL WIRING SHALL BE IN CONDUIT UNLESS OTHERWISE NOTED. MINIMUM WIRE SIZE SHALL BE #12 AWG, EXCLUDING CONTROL WIRING. ALL CONDUCTORS SHALL BE COPPER WITH THWN/THHN INSULATION.
2. ALL UNDERGROUND RACEWAYS SHALL BE MINIMUM 3/4". GALVANIZED RIGID STEEL CONDUIT OR SCHEDULE 40 PVC.
3. ALL UNDERGROUND SERVICE CONDUITS/RACEWAYS ENTERING BUILDING OR STRUCTURE FROM OUTSIDE TO INSIDE SHALL BE SEALED, INCLUDING SPARE CONDUITS. SEALANT SHALL BE SUITABLE FOR THIS USE.

SPECIFICATIONS

- 4. ALL UNDERGROUND PVC CONDUIT RUNS SHALL HAVE RIGID STEEL ELBOWS AND RIGID STEEL SECTIONS AT SLAB PENETRATIONS WHERE SUBJECT TO POSSIBLE DAMAGE.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR SEALING ALL CONDUIT PENETRATIONS MADE THROUGH FIRE RATED WALLS, CEILINGS, SLABS, ETC. PENETRATION SEALS SHALL BE PER U.L. ASSEMBLY STANDARDS.
6. ALL HORIZONTAL RUNS OF CONDUIT SHALL BE PROPERLY SUPPORTED BY MEANS OF APPROVED HANGERS FROM THE STRUCTURAL CEILING.
7. WALL-MOUNTED CONDUIT SHALL BE CONCEALED BEHIND FINISHED WALLS EXCEPT WHERE NOTED OTHERWISE OR WHERE CONNECTING TO SURFACE-MOUNTED ENCLOSURES IN ROOMS SELECTED FOR SURFACE-MOUNTED INSTALLATION.

F. CONDUCTORS

- 1. ALL ELECTRICAL CONDUCTORS SHALL BE INSTALLED IN AN APPROVED RACEWAY, EMT, IMC, RIGID GALVANIZED CONDUIT OR SCHEDULE 40 P.V.C.
2. ALL WIRING IS 2 #12 COPPER THHN/THWN AND 1 #12 COPPER GROUND IN 1/2" EMC U.N.O.
3. AN EQUIPMENT GROUNDING CONDUCTOR SHALL BE INSTALLED IN EVERY CONDUIT AND RACEWAY AND SECURELY BONDED IN AN APPROVED GROUNDING TERMINAL AT BOTH ENDS OF THE RUN.
4. A SEPARATE, GREEN TYPE THW COPPER GROUND CONDUCTOR SHALL BE RUN FROM GROUND LUG OF EACH GROUNDING RECEPTACLE TO AN APPROVED CONNECTION INSIDE THE ENCLOSING STEEL OUTLET BOX.
5. CONDUCTORS SHALL BE COLOR CODED AS FOLLOWS:
THREE PHASE SYSTEM PHASE SEQUENCE
NEUTRAL - WHITE
PHASE A - BLACK
PHASE B - RED
PHASE C - BLUE
GRD. CON - GREEN
NOTE: DISREGARD PHASE C IF SYSTEM IS NOT THREE PHASE.

6. VOLTAGE DROP

- ASSUMPTION:
-- 20A/1Ø, 120 OR 277V CIRCUIT
-- COPPER CONDUCTORS
-- 75°F RATINGS AND CIRCUIT LOADED TO 80% OF OVER-CURRENT DEVICE RATING
-- "L" IS THE ACTUAL "ONE-WAY" LENGTH OF THE BRANCH CIRCUIT
OPTIONALLY, THE CONTRACTOR MAY CALCULATE THE WIRE SIZE TO MAINTAIN A VOLTAGE DROP BELOW 3% FOR EACH 20A/1Ø BRANCH CIRCUITS BASED ON THE ACTUAL/NEC LOAD CONNECTED.
120 VOLT:
-- #12 AWG FOR L<=5'
-- #10 AWG FOR 5<L<=9'
-- #8 AWG FOR 9<L<=14'
-- #6 AWG FOR 14<L<=22'
-- #4 AWG FOR 22<L<=35'
-- #3 AWG FOR 35<L<=45'
-- #2 AWG FOR 45<L<=58'
277 VOLT:
-- #12 AWG FOR L<=12'
-- #10 AWG FOR 12<L<=21'
-- #8 AWG FOR 21<L<=33'
-- #6 AWG FOR 33<L<=52'

FOR L>500', THE BRANCH CIRCUIT WIRING SHALL BE SIZED TO LIMIT THE VOLTAGE DROP TO 3%. NOTE: FOR CIRCUITS NOT FITTING THIS ASSUMPTION, CONTRACTOR TO VERIFY WIRE SIZING TO LIMIT VOLTAGE DROP TO NO MORE THAN 3%.

- 1. LOAD DATA IS BASED ON INFORMATION GIVEN TO THE ENGINEER AT THE TIME OF DESIGN. VERIFY ALL EQUIPMENT NAMEPLATE RATINGS BEFORE ORDERING.
2. CIRCUITS SHOWN ON PLANS ARE TO DETERMINE LOAD DATA AND PANEL SIZES. THE CONTRACTOR IS TO PROVIDE CIRCUITS AND ROUTING OF CONDUITS TO SUIT JOB CONDITIONS.
3. ALL SWITCHGEAR, PANELS, STARTERS, CONTACTORS ETC., SHALL BE THE PRODUCT OF A SINGLE MANUFACTURER.
4. TYPEWRITTEN CIRCUIT INDEX SHALL BE AFFIXED TO INSIDE SURFACE OF EACH PANELBOARD DOOR, CLEARLY INDICATING AREA AND TYPE OF LOAD SERVED BY EACH BRANCH CIRCUIT PROTECTIVE DEVICE, INCLUDING SPARES. HAND PRINTED WILL NOT BE ACCEPTED.
5. ENGRAVED, LAMINATED PLASTIC IDENTIFICATION PLATES SHALL BE FURNISHED AND INSTALLED ON ALL PANELS AND SWITCHGEAR.
6. ARC-FLASH WARNINGS AND LABELS SHALL BE AFFIXED TO REQUIRED EQUIPMENT AS REQUIRED BY NEC SECTION 110.1.6.
7. PANELS SHALL BE MOUNTED PER NEC AND PER ADA REQUIREMENTS.
8. SERVER RATED PANELBOARD AND BRANCHES ARE PROHIBITED.
9. PRIOR TO ORDERING THE PANEL BOARDS, THE ELECTRICAL CONTRACTOR SHALL OBTAIN THE MAXIMUM FAULT CURRENT AVAILABLE FROM THE UTILITY COMPANY.

H. EQUIPMENT/DEVICES/FUSES

- 1. DISCONNECT SWITCHES SHALL BE H.P. RATED, GENERAL DUTY, QUICK-MAKE, QUICK-BREAK TYPE. ENCLOSURES SHALL BE AS REQUIRED BY N.E.C. AND LOCATION (WEATHERPROOF, EXPLOSION PROOF, ETC.). ENGRAVED LAMINATED PLASTIC IDENTIFICATION PLATES SHALL BE FURNISHED AND INSTALLED ON ALL DISCONNECT SWITCHES, CONTACTORS AND STARTERS.
2. ALL FUSES FOR SAFETY SWITCHES SHALL BE DUAL ELEMENT, CARTRIDGE TYPE. FUSES SHALL BE THOSE MANUFACTURED BY EITHER BUSSMAN OR LITTLEFUSE.
3. FURNISH AND INSTALL DISCONNECT SWITCHES, WIRING, AND CONNECTIONS ON MECHANICAL AND PLUMBING SYSTEMS AS SHOWN ON PLANS.
4. THE DISCONNECT SWITCH, FUSE SIZES, CONDUIT AND WIRE SHOWN FOR ALL HVAC ARE SIZED PER THE MANUFACTURER, AND MODEL NUMBER LISTED ON THE MECHANICAL PLANS.

SPECIFICATIONS

- 5. ALL GENERAL-PURPOSE SWITCHES AND RECEPTACLES SHALL BE THE PRODUCT OF A SINGLE MANUFACTURER.
A. SWITCHES: LEVITON #CSB1-20
B. RECEPTACLES: LEVITON #BR20
C. COVER PLATES: SMOOTH THERMOSET PLASTIC
D. COVER PLATES: STAINLESS STEEL (IN KITCHEN, SERVICE AREA & PREP AREA)

NOTE: ALL OTHER REQUIRED DEVICES SHALL MATCH IN COLOR AND STYLE.

- 6. ALL RECEPTACLES SHALL BE RATED AS GFCI, AFCI, WEATHERPROOF, AND/OR TAMPERPROOF AS REQUIRED BY THE NEC IN LOCATIONS.
7. PROVIDE CIRCUIT NUMBER PERMANENT LABELS TYPE WRITTEN 1/8" HIGH BLOCK STYLE LETTER IN BLACK ON CLEAR TAPE ON ALL RECEPTACLE.
8. OUTLET BOXES SHALL BE PRESSED STEEL IN DRY LOCATIONS, CAST ALLOY WITH THREADED HUBS IN WET OR DAMP LOCATIONS, AND BE OF SPECIAL CONSTRUCTION FOR OTHER CLASSIFIED AREAS.

LOW VOLTAGE INSTALLATION

GENERAL NOTES

- 1. THE CONTRACTOR IS RESPONSIBLE FOR A COMPLETE LOW VOLTAGE INSTALLATION (TURN-KEY) FOR THE FOLLOWING:
1.1. SECURITY
1.2. VOICE (TELEPHONE)
1.3. DATA
1.4. TV
1.5. DOOR REMOTE RELEASE
2. LOW VOLTAGE LIGHTING APPLICATIONS SHALL BE INSTALLED PER THE MANUFACTURER'S REQUIREMENT AND PER THE APPLICABLE CODES AND STANDARDS OF THE NEC AND IECC.
3. FIRE ALARM SYSTEM INSTALLATION SHALL COMPLY TO NFPA 70, NFPA 72, AND ALL OTHER CODES/STANDARDS REQUIRED BY LOCAL AUTHORITIES.

ABBREVIATIONS AND CALLOUTS (TYP.)

Table with 4 columns: Symbol, Abbreviation, Description, Unit. Includes entries for DELTA, WYE, AMPS, ALTERNATING CURRENT, ACCESS DOOR, etc.

NOTE: ANY EQUIPMENT CALLOUTS NOT FOUND IN THIS LIST MAY BE FOUND IN THE EQUIPMENT SCHEDULES OF THE RESPECTIVE TRADE INVOLVED. OTHERWISE REFER TO SECTION B, NOTE 9 ON THIS SHEET.

ELECTRICAL SCHEDULE table with columns: NUMBER, 2D SYMBOL, DESCRIPTION, DIMENSIONS, REF HEIGHT, FLOOR, QTY. Lists various electrical components like switches, lights, fans, and receptacles.

SHEET NUMBER

E01

SCALE @ 24" X 36"

DATE: 02-09-2024

DRAWN BY: AK

ELECTRICAL NOTES

145 & 155 W HOOVER ST, WESTFIELD, INDIANA 46074, USA

SINGLE-FAMILY RESIDENTIAL HOUSE

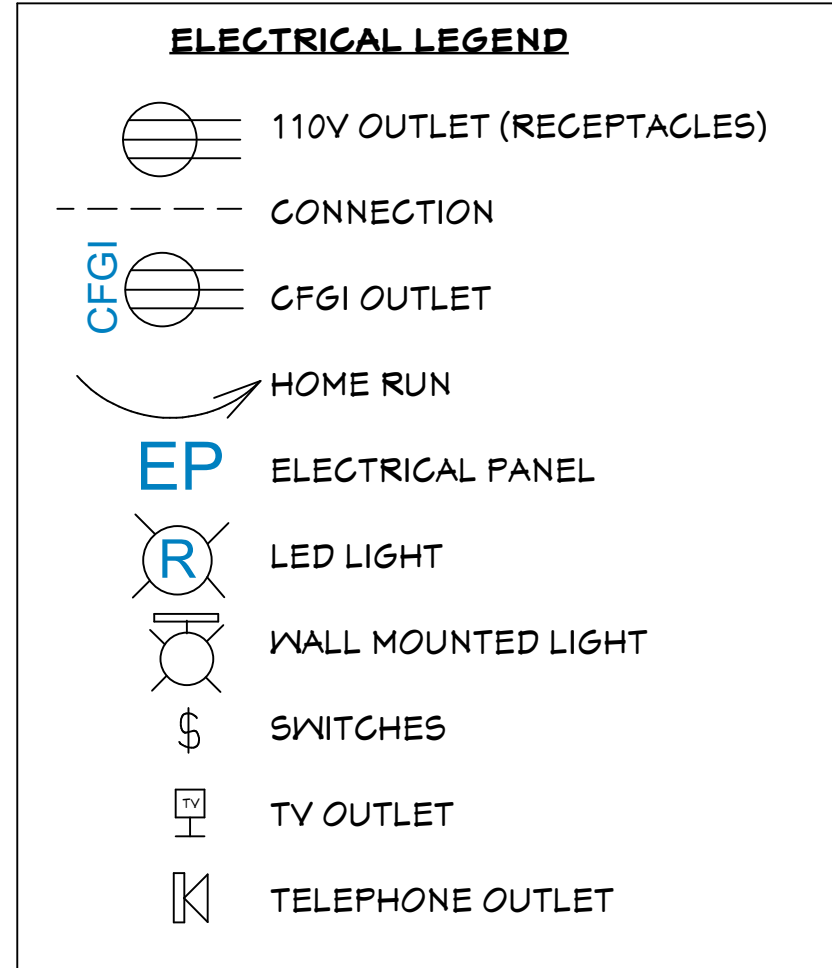
TRANSFORMATIVE CONSTRUCTION EXPERTS

TransformativeConstruction@gmail.com

3975 Summit Circle NW Acworth, GA 30101

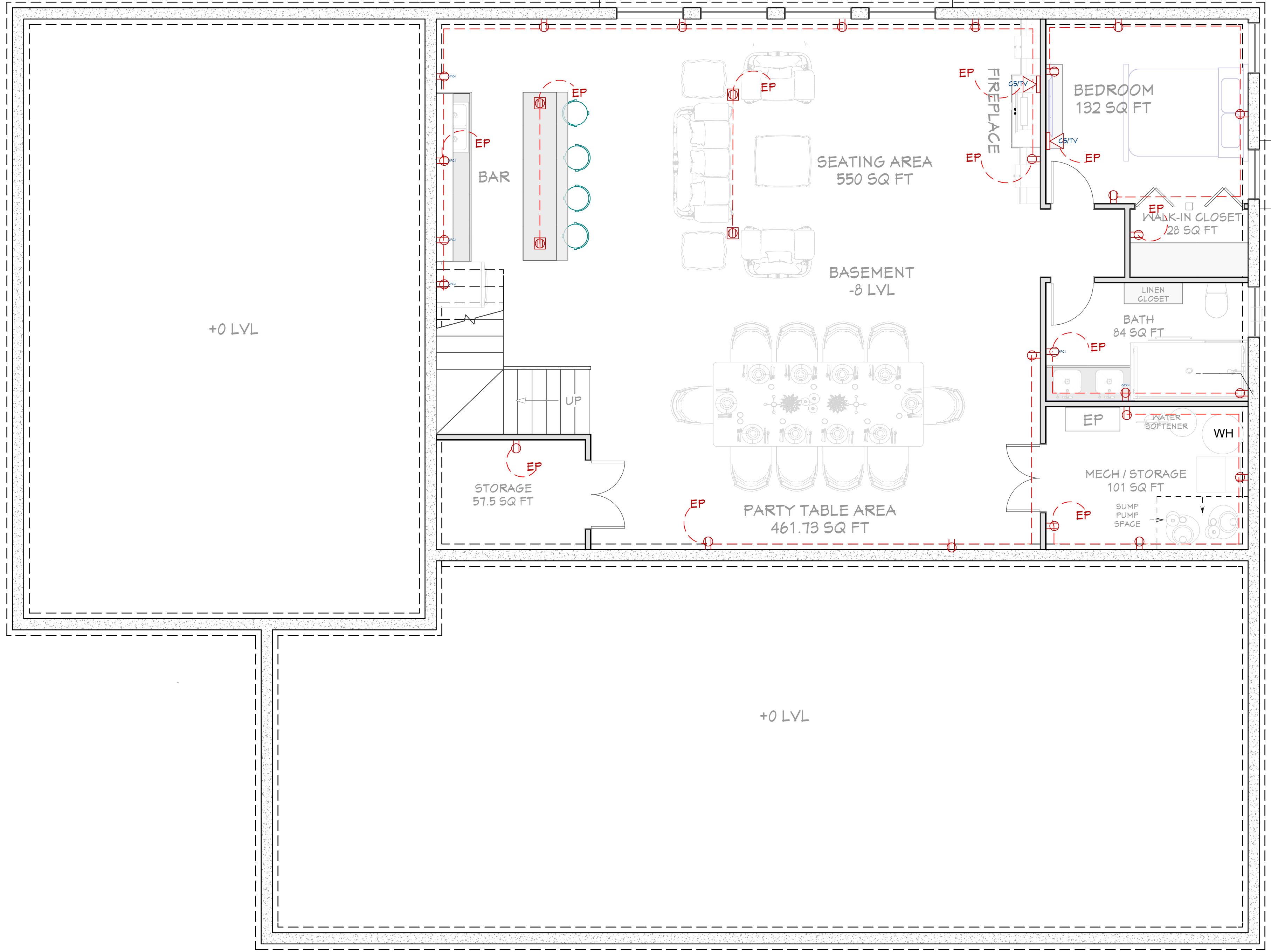


© 2024



NOTE:
BRANCH CIRCUITRY AND PANEL DESIGNATIONS TO BE DESIGNED AND INSTALLED BY CERTIFIED LOCAL ELECTRICIAN

ABBREVIATIONS AND CALLOUTS (TYP.)			
Δ	DELTA	IU-X	INDOOR UNIT
γ	WYE	J/ JB	JUNCTION BOX
A	AMPS	kcMil	THOUSAND CIRCULAR MIL
AC	ALTERNATING CURRENT	KEF-X	KITCHEN EXHAUST FAN
AD	ACCESS DOOR	kw	KILOWATT
AFCI/AFI	ARC FAULT CIRCUIT INTERRUPTER	L-X	LOUVER (POWERED)
AFF	ABOVE FINISH FLOOR	LED	LIGHT EMITTING DIODE
AHU-X	AIR HANDLING UNIT	MAU-X	MAKE UP AIR UNIT
AIC	AMPERE INTERRUPTING CAPACITY	MAX	MAXIMUM
AJD	ADJUSTABLE	MCA	MAX. CIRCUIT AMPERAGE
AL	ALUMINUM	MCB	MAIN CIRCUIT BREAKER
AOR	ARCHITECT OF RECORD	MCC	MOTORIZED CONTROL CENTER
ATS	AUTOMATIC TRANSFER SWITCH	MIN	MINIMUM
BC-X	BRANCH CONTROLLER	MIU-X	MULTI-SPLIT INDOOR UNIT
BKR	BREAKER	MLO	MAIN LUGS ONLY
BOD	BASIS OF DESIGN	MOCP	MAX. OVERCURRENT PROTECTION
CB	CIRCUIT BRANCH	MOU-X	MULTI-SPLIT OUTDOOR UNIT
CLG	CEILING	MOD	MOTORIZED DAMPER
COMP-X	COMPRESSOR	N	NEUTRAL
CU	COPPER	N/A	NOT APPLICABLE
CU-X	CONDENSING UNIT	NC	NORMALLY CLOSED
DC	DIRECT CURRENT	NO	NORMALLY OPEN
DIM	DIMMER	OU-X	OUTDOOR UNIT
DWGS	DRAWINGS	PNL	PANEL
EDH	ELECTRICAL DUCT HEATER	PIU-X	POWERED INDUCTION UNIT
EF-X	EXHAUST FAN	RMS	ROOT MEAN SQUARE
EOR	ENGINEER OF RECORD	RTU-X	ROOFTOP UNIT
EX	EXISTING	SF	SQUARE FEET
FA	FIRE ALARM	SWBD	SWITCHBOARD
FAA	FIRE ALARM ANNUNCIATOR PANEL	TP	TAMPER PROOF
FACP	FIRE ALARM CONTROL PANEL	TV	TELEVISION
FCU-X	FAN COIL UNIT	TYP	TYPICAL
FD	FIRE DAMPER	UG	UNDERGROUND
FSD	FIRE/SMOKE DAMPER	UH-X	UNIT HEATER (ELECTRIC)
FT	FEET	V	VOLTS
G/GRND	GROUND	VA	VOLT-AMPERES
GEN	GENERATOR	VAV-X	VARIABLE AIR VOLUME UNIT
GFCI/GFI	GROUND FAULT CIRCUIT INTERRUPTER	VMD	VOLUME DAMPER (MANUAL)
GUH-X	GAS UNIT HEATER	VFD	VARIABLE FREQUENCY DRIVE
H/C	HEATING COIL	W	WATTS
HP	HORSEPOWER	W/	WITH
HP-X	HEAT PUMP	WH-X	WATER HEATER
HR	HOUR	WP	WEATHERPROOF
HZ	HERZ	XFMR	TRANSFORMER
IG	ISOLATED GROUND	XP	EXPLOSION PROOF
IN	INCHES	Z	IMPEDANCE



BASEMENT FLOOR POWER PLAN
1/4"=1'



SHEET NUMBER
E02

SCALE @ 24" X 36"
DATE: 02-09-2024
DRAWN BY: AK

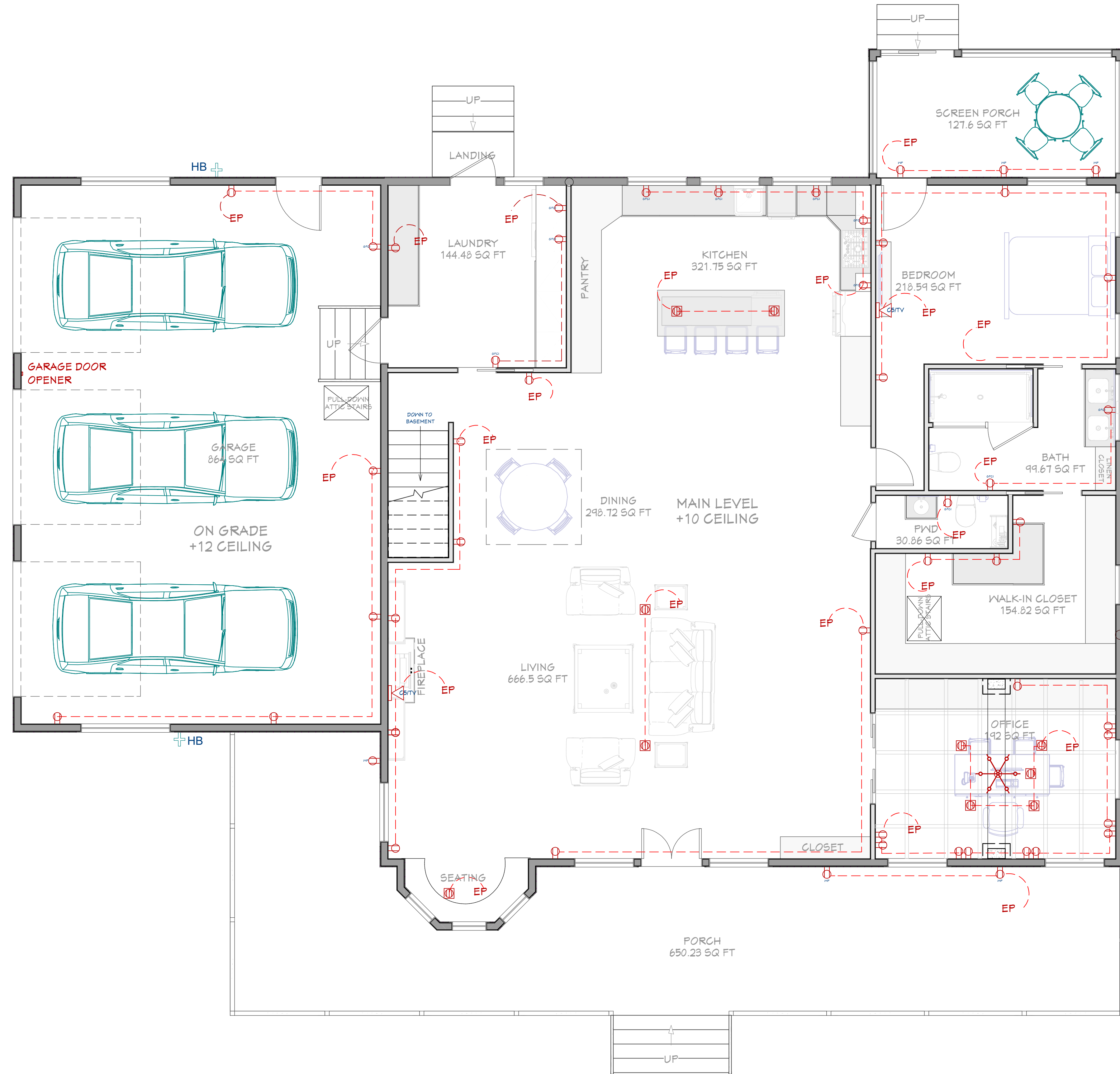
BASEMENT POWER PLAN

145 & 155 W HOOVER ST,
WESTFIELD, INDIANA 46074, USA
SINGLE-FAMILY
RESIDENTIAL HOUSE

TRANSFORMATIVE
CONSTRUCTION
EXPERTS

© 2024
TransformativeConstruction@gmail.com
3975 Summit Circle NW
Acworth, GA 30101

ELECTRICAL LEGEND	
	110V OUTLET (RECEPTACLES)
	CONNECTION
	CFGI OUTLET
	HOME RUN
	ELECTRICAL PANEL
	LED LIGHT
	WALL MOUNTED LIGHT
	SWITCHES
	TV OUTLET
	TELEPHONE OUTLET



FIRST FLOOR POWER PLAN

1/4"=1'

SHEET NUMBER

E03

SCALE @ 24" X 36"

DATE: 02-09-2024

DRAWN BY: AK

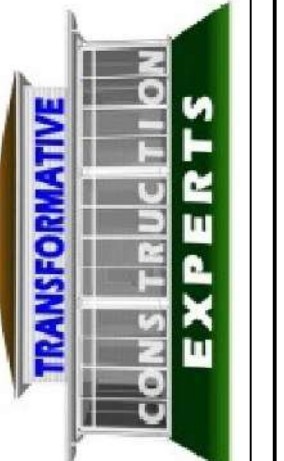
FIRST FLOOR POWER PLAN

145 & 155 W HOOVER ST,
WESTFIELD, INDIANA 46074, USA

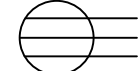
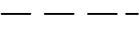






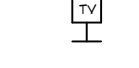

**SINGLE-FAMILY
RESIDENTIAL HOUSE**

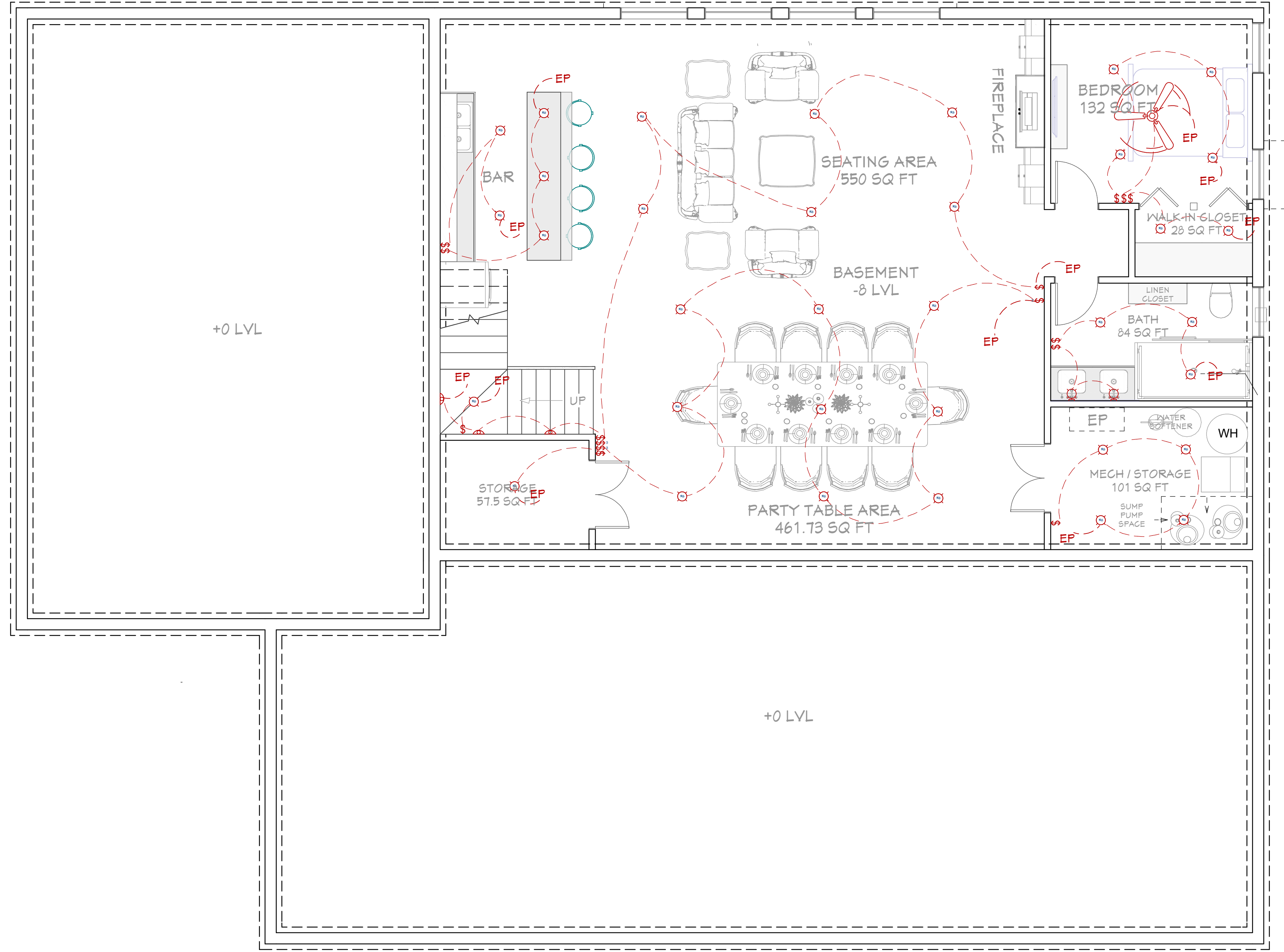
TRANSFORMATIVE

© 2024
TransformativeConstruction@gmail.com
3975 Summit Circle NW
Acworth, GA 30101



ELECTRICAL LEGEND

-  110V OUTLET (RECEPTACLES)
-  CONNECTION
-  CFGI OUTLET
-  HOME RUN
-  ELECTRICAL PANEL
-  LED LIGHT
-  WALL MOUNTED LIGHT
-  SWITCHES
-  TV OUTLET
-  TELEPHONE OUTLET



BASEMENT FLOOR LIGHTING PLAN
1/4"=1'

SHEET NUMBER
E04

SCALE @ 24" X 36"
DATE: 02-09-2024
DRAWN BY: AK

BASEMENT LIGHTING PLAN

145 & 155 W HOOVER ST,
WESTFIELD, INDIANA 46074, USA
SINGLE-FAMILY
RESIDENTIAL HOUSE

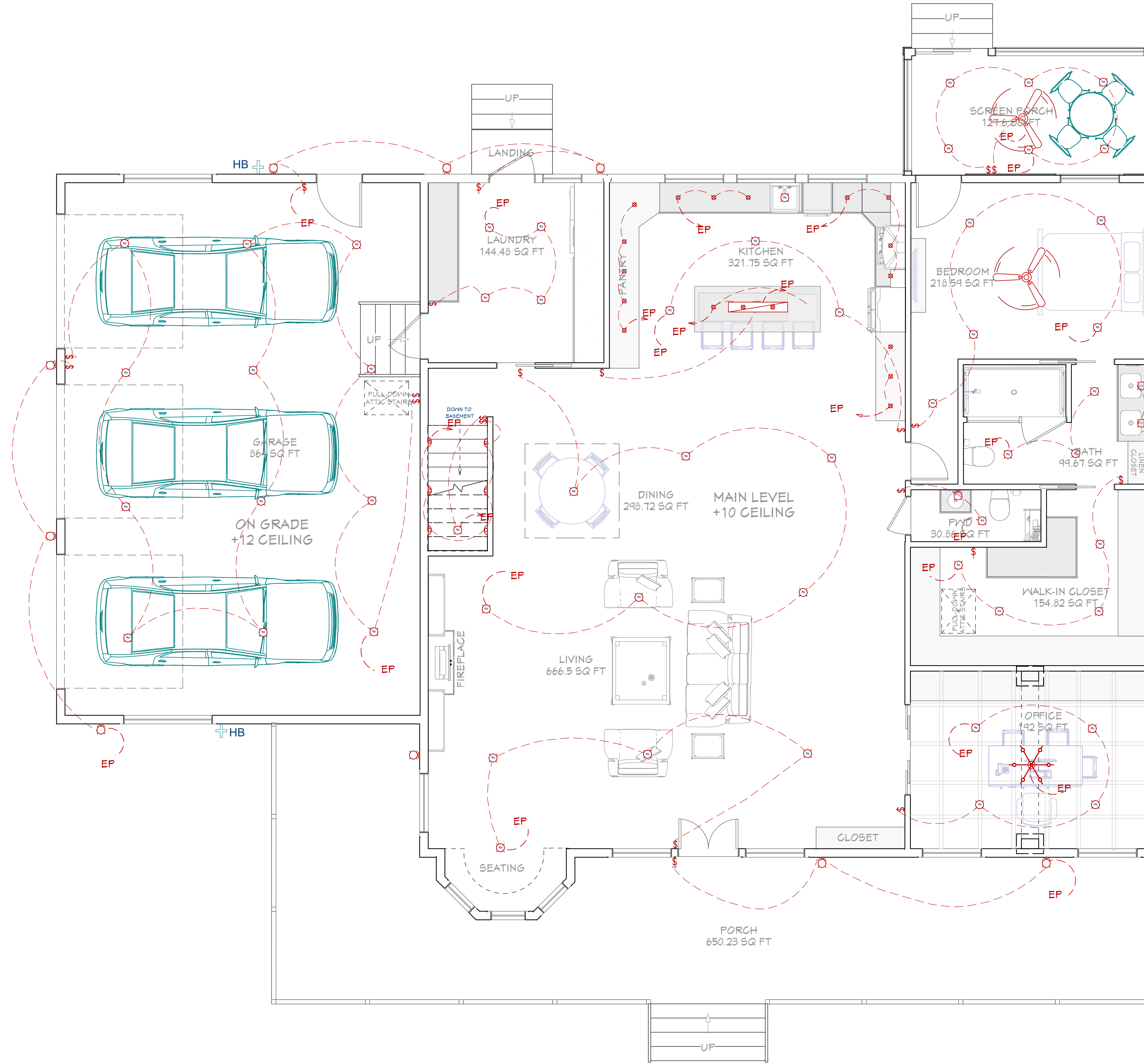
TRANSFORMATIVE
TransformativeConstruction@gmail.com
3975 Summit Circle NW
Acworth, GA 30101



© 2024

ELECTRICAL LEGEND

- 110V OUTLET (RECEPTACLES)
- CONNECTION
- CFGI OUTLET
- HOME RUN
- ELECTRICAL PANEL
- LED LIGHT
- WALL MOUNTED LIGHT
- SWITCHES
- TV OUTLET
- TELEPHONE OUTLET



FIRST FLOOR LIGHTING PLAN

1/4"=1'

SHEET NUMBER
E05

SCALE @ 24" X 36"
DATE: 02-09-2024
DRAWN BY: AK

**FIRST FLOOR
LIGHTING PLAN**

145 & 155 W HOOVER ST,
WESTFIELD, INDIANA 46074, USA
**SINGLE-FAMILY
RESIDENTIAL HOUSE**

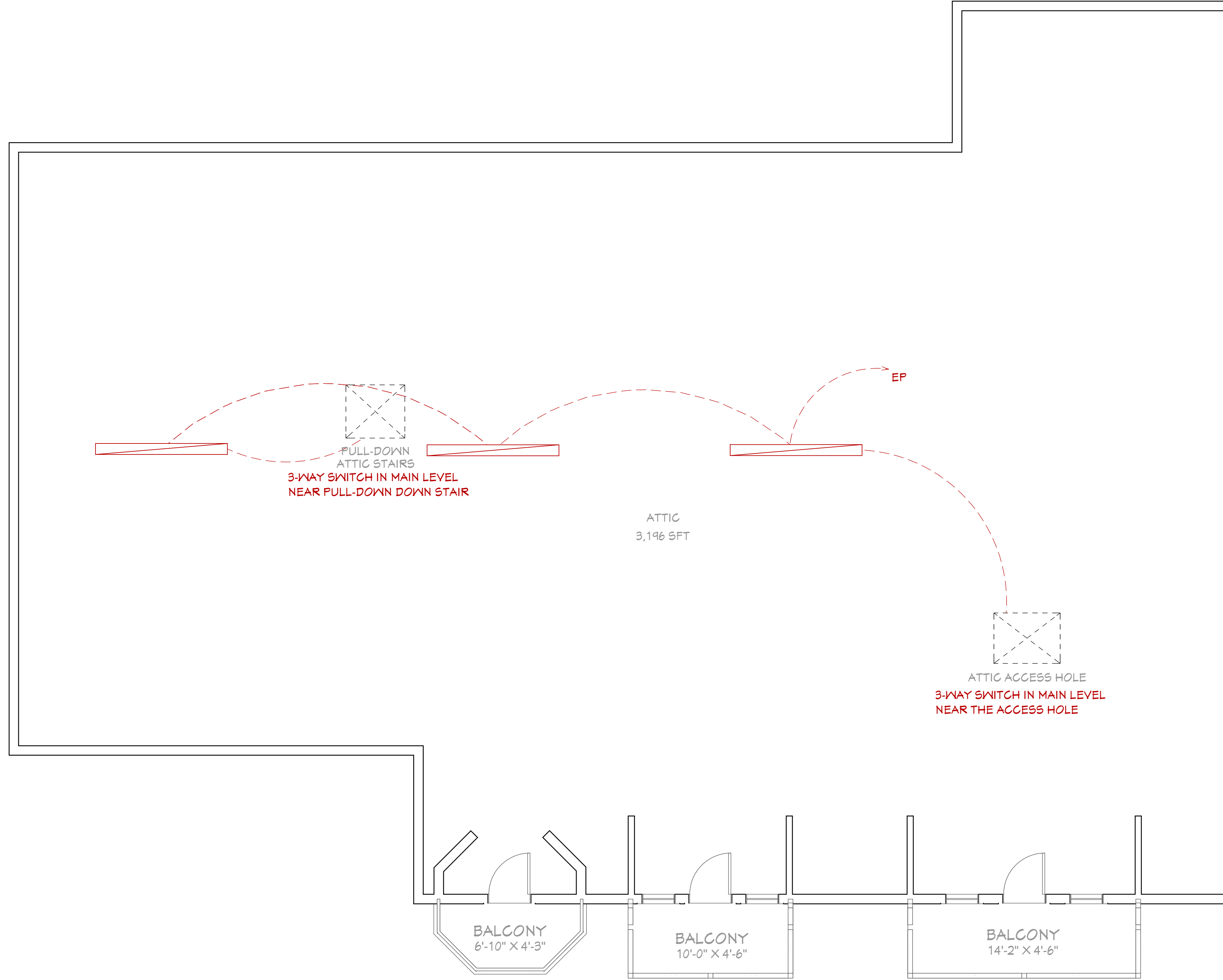
TRANSFORMATIVE
TransformativeConstruction@gmail.com
3975 Summit Circle NW
Acworth, GA 30101



© 2024

ELECTRICAL LEGEND

	110V OUTLET (RECEPTACLES)
	CONNECTION
	CFGI OUTLET
	HOME RUN
	ELECTRICAL PANEL
	LED LIGHT
	WALL MOUNTED LIGHT
	SWITCHES
	TV OUTLET
	TELEPHONE OUTLET



ATTIC LIGHTING PLAN
1/4"=1'



SHEET NUMBER

E06

SCALE @ 24" X 36"

DATE: 02-09-2024

DRAWN BY: AK

ATTIC LIGHTING PLAN

145 & 155 W HOOVER ST,
WESTFIELD, INDIANA 46074, USA

**SINGLE-FAMILY
RESIDENTIAL HOUSE**

TRANSFORMATIVE
CONSTRUCTION
EXPERTS

© 2024
TransformativeConstruction@gmail.com
3975 Summit Circle NW
Acworth, GA 30101

SPECIFICATIONS

A. APPLICABLE CODE

CONTRACTOR SHALL FOLLOW ALL APPLICABLE GOVERNING CODES AS WELL AS ANY STATE AMENDMENTS. CONTRACTOR SHALL ENSURE CORRECT EDITION IS REFERENCED ACCORDING TO CODE ADOPTION BY STATE AND PERMITTING AGENCIES. APPLICABLE CODES INCLUDE BUT ARE NOT LIMITED TO:

INTERNATIONAL PLUMBING CODE (IPC)
INTERNATIONAL FUEL AND GAS CODE (IFGC)
INTERNATIONAL FIRE CODE (IFC)

B. GENERAL NOTES

- 1 CONTRACTOR SHALL REFER TO ALL RELATED DOCUMENTS, ARCHITECTURAL, STRUCTURAL, CIVIL, AND MEP DRAWINGS, AND FULLY UNDERSTAND THE SCOPE OF WORK AND CONDITION OF CONSTRUCTION.
- 2 FURNISH ALL LABOR, MATERIAL, AND EQUIPMENT REQUIRED FOR A COMPLETE PLUMBING SYSTEM IN ACCORDANCE WITH THE APPLICABLE EDITION, INCLUDING REVISIONS AND REFERENCED CODES AND STANDARDS (INCLUDING ALL APPLICABLE STATE AMENDMENTS).
- 3 FURNISH AND INSTALL ALL SYSTEMS OF SOIL, WASTE, AND VENT PIPING, HOT & COLD WATER PIPING, AND DRAINAGE PIPING INCLUDING ALL FITTINGS, VALVES, ETC. AS REQUIRED.
- 4 FURNISH AND INSTALL ALL PLUMBING FIXTURES AND EQUIPMENT AS SHOWN ON THE DRAWINGS.
- 5 ALL PLUMBING WORK SHALL BE DONE UNDER THE SUPERVISION OF AND BY LICENSED AND QUALIFIED PLUMBERS IN ACCORDANCE WITH THE APPLICABLE EDITION, INCLUDING REVISIONS (INCLUDING ALL APPLICABLE STATE AMENDMENTS) AND TO THE COMPLETE SATISFACTION OF THE LOCAL AHJ.
- 6 SUBMISSION OF A BID OR PROPOSAL SHALL BE CONSTRUED AS EVIDENCE THAT THE CONTRACTOR HAS FAMILIARIZED HIMSELF WITH THE PLANS, SPECIFICATIONS, AND BUILDING SITE. CLAIMS MADE SUBSEQUENT TO BIDS FOR MATERIALS AND/OR LABOR DUE TO DIFFICULTIES ENCOUNTERED WILL NOT BE RECOGNIZED, UNLESS DIFFICULTIES COULD NOT HAVE BEEN FORESEEN EVEN THOUGH PROPER EXAMINATION HAD BEEN MADE.
- 7 CONTRACTOR SHALL BE RESPONSIBLE FOR ALL UTILITY CONNECTIONS AND SHALL BEAR ALL COSTS OF INSTALLING NEW WATER METER.
- 8 ALL MATERIALS SHALL BE NEW, CLEAN, AND WITHOUT DEFECTS. ANY DEFECTIVE MATERIALS SHALL BE REMOVED FROM THE JOB SITE.
- 9 ALL PLUMBING PIPING SHALL BE CONCEALED WITHIN THE BUILDING STRUCTURE AND ABOVE DROP CEILINGS.
- 10 ALL REQUIRED INSURANCE SHALL BE PROVIDED FOR PROTECTION AGAINST PUBLIC LIABILITY OF PROPERTY DAMAGE FOR THE DURATION OF THE WORK.
- 11 IT IS NOT THE INTENT OF THESE PLANS TO SHOW EVERY MINOR DETAIL OF CONSTRUCTION. THE CONTRACTOR IS EXPECTED TO FURNISH AND INSTALL ALL ITEMS FOR A COMPLETE PLUMBING SYSTEM AND PROVIDE ALL NECESSARY DEVICES AND COMPONENTS FOR EQUIPMENT TO BE PLACED IN PROPER WORKING ORDER.
- 12 THE PLUMBING CONTRACTOR SHALL MEET AND COORDINATE WITH THE LOCAL UTILITY COMPANY AT THE SITE PRIOR TO CONSTRUCTION. AT THAT TIME, THE CONTRACTOR SHALL COORDINATE ALL RELATED WORK WITH THE UTILITY COMPANY'S RESPONSIBILITIES TO MEET THE OWNER'S SCHEDULE.
- 13 CONTRACTOR SHALL MAINTAIN A COMPLETE SET OF CONTRACT DRAWINGS AT JOB SITE WITH COLORED MARKINGS INDICATING PROGRESS OF WORK. THIS SET OF CONTRACT DRAWINGS IS TO BE SEPARATE FROM AND IN ADDITION TO CONTRACTOR'S CONSTRUCTION SET. EVERY UNIT OF EQUIPMENT AND PIPING IS TO BE MARKED WHEN INSTALLED. USE GREEN TO INDICATE INSTALLATION AS SHOWN ON DRAWINGS AND USE RED TO INDICATE FIELD CHANGES. UPON COMPLETION OF WORK, THIS SET OF CONTRACT DRAWINGS IS TO BE TURNED OVER TO, AND BECOME PROPERTY OF, THE ARCHITECT.
- 14 THE OWNER RESERVES THE RIGHT TO REVISE THE DRAWING FROM TIME TO TIME TO INDICATE CHANGES IN THE WORK. WHEN REVISED DRAWINGS AND/OR ANY REVISIONS ARE ISSUED, THE CONTRACTOR SHALL EVALUATE THE CHANGES PROMPTLY BEFORE INSTALLATION OF ANY ITEM OR PERFORMANCE OF THE WORK INDICATED BY THE REVISED DRAWINGS OR REVISIONS. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER IN WRITING THAT THE REVISED DRAWINGS INVOLVE AN ADDITION OR DEDUCTION OF A SPECIFIC AMOUNT OF MONEY TO THE CONTRACT PRICE. THE CONTRACTOR SHALL NOT PROCEED WITH THE REVISED WORK WITHOUT PRIOR WRITTEN APPROVAL BY THE ARCHITECT/ENGINEER OF THE COST OF THE REVISED WORK.
- 15 IF THE PLUMBING CONTRACTOR HAS QUESTIONS, OR IN THEIR OPINION FINDS OMISSIONS OR ERRORS, ON THE PLUMBING DOCUMENTS, IT IS THEIR RESPONSIBILITY TO BRING THIS TO THE ATTENTION OF THE PLUMBING ENGINEER/ARCHITECT/OWNER IMMEDIATELY. IF THE PLUMBING CONTRACTOR PROCEEDS WITH ANY CHANGES TO THE CONTRACT DOCUMENTS WITHOUT WRITTEN PRIOR APPROVAL FROM THE PLUMBING ENGINEER/ARCHITECT/OWNER, THEY WILL NOT BE COMPENSATED.

C. SYSTEM TESTING

- 1 UPON COMPLETION OF THE WORK, TEST ALL PIPING SYSTEMS AS FOLLOWS:
 - A **DRAINAGE SYSTEMS INCLUDING SANITARY SEWER, ROOF DRAINAGE, AND SANITARY VENTS:** PLUG LOW POINTS OF SYSTEM AND FILL WITH WATER TO UPPERMOST OUTLET UP TO TWELVE (12) FEET HIGH, WHICHEVER IS LOWER. LET SYSTEM STAND FULL OF WATER WITH NO INDICATIONS OF LEAKS.
 - B **DOMESTIC HOT AND COLD WATER:** 150 PSIG HYDROSTATIC TEST. HOLD HYDROSTATIC TESTS FOR A MINIMUM OF EIGHT (8) HOURS WITHOUT LOSS OF PRESSURE. HOLD AIR TESTS FOR A MINIMUM OF ONE HOUR WITHOUT SIGNIFICANT LOSS OF PRESSURE. WITH APPROVAL OF ARCHITECT, AIR TESTING MAY BE SUBSTITUTED FOR HYDROSTATIC TESTING IN FREEZING WEATHER.
 - C **GAS PIPING:** 60 PSIG AIR PRESSURE TEST. MAINTAIN THIS PRESSURE FOR A MINIMUM OF EIGHT (8) HOURS WITHOUT A LOSS OF PRESSURE. FOLLOW INSTRUCTIONS 2.11 AND 2.12 IN NFPA MANUAL 54.
- 2 **RETESTING:** RETEST PIPING FAILING INITIAL TESTS FOLLOWING CORRECTION OF DEFECTIVE WORK. REQUIREMENTS OF INITIAL TEST SHALL APPLY.

D. PIPING SYSTEM AND MATERIALS

- 1 SANITARY, WASTE, AND VENT PIPING ABOVE GRADE SHALL BE NO-HUB CAST IRON OR ASTM D2665-81 PVC SCHEDULE 40 PIPE.
- 2 GAS PIPING SHALL BE SCHEDULE 40 ASTM-A53 BLACK STEEL WITH 150# BLACK MALLEABLE FITTINGS AND DART #0832 UNIONS. PROVIDE DRIP LEGS AND CAPS FOR MOISTURE REMOVAL. PROVIDE UNIONS AND LUBRICATED PLUGS FOR ALL EQUIPMENT.
- 3 DOMESTIC WATER PIPING SHALL BE EITHER COPPER TYPE L, PVC (COLD WATER SUPPLY), OR CPVC (HOT WATER SUPPLY). CROSS-LINKED POLYETHYLENE (PEX) PIPING MAY BE USED WHERE APPROVED BY OWNER AND IN ACCORDANCE WITH MANUFACTURER REQUIREMENTS. PEX PIPING MAY NOT BE CONNECTED DIRECTLY TO HOT WATER HEATER.
- 3 ALL HOT WATER PIPING SHALL BE INSULATED WITH 1/2" THICK PRE-FORMED FOAM PIPE INSULATION. INSULATE FITTINGS WITH MITERED SECTIONS.
- 4 WATER SUPPLY AND DRAIN PIPES UNDER ACCESSIBLE LAVATORIES AND SINKS SHALL BE COVERED OR OTHERWISE CONFIGURED TO PROTECT AGAINST CONTACT. PIPE COVERINGS SHALL COMPLY WITH ASME A112.18.9.
- 5 CLEANOUT PLUGS SHALL BE INSTALLED IN ACCORDANCE WITH PLUMBING CODE REQUIREMENTS AT EACH CHANGE IN DIRECTION. CLEANOUTS SHALL BE PLACED IN READILY ACCESSIBLE LOCATIONS.
- 6 ALL EXPOSED FIXTURE SUPPLY AND DRAINAGE PIPING SHALL BE BRASS, CHROME PLATED. THIS INCLUDES PIPING UNDER COUNTERS OR IN CABINETS.
- 7 PROVIDE VALVES IN DOMESTIC WATER SYSTEM TO CUT-OFF WATER SERVICE MAIN INSIDE THE BUILDING, AT EACH WALL HYDRANT, AND TO ISOLATE EACH FIXTURE IN THE BUILDING.
- 8 PROVIDE BACK-FLOW PREVENTER AND SHUT-OFF VALVES AT WATER ENTRANCE, OR AS SHOWN, WATTS SERIES 009 OR EQUAL, WITH DRAIN TO OUTSIDE.
- 9 PROVIDE WATER PRESSURE REDUCING VALVE WATTS USB OR EQUAL. (SET AT 50 PSIG).
- 10 THERMAL EXPANSION TANKS SHALL BE SUPPORTED BY A MOUNTING BRACKET OR OTHER APPROVED METHOD BY THE TANK MANUFACTURER TO A WALL NEAR TO THE WATER HEATER. THERMAL EXPANSION TANKS SHALL NOT BE SUPPORTED BY CONNECTED PIPING PER IPC ARTICLE 308.10.
- 11 WATER, SOIL AND WASTE PIPES INSTALLED OUTSIDE OF BUILDING, IN ATTICS OR CRAWL SPACES, CONCEALED IN OUTSIDE WALLS, OR IN ANY OTHER PLACE SUBJECT TO FREEZING TEMPERATURES SHALL BE PROVIDED WITH ADEQUATE PROTECTION (INSULATION, HEAT, OR BOTH). EXTERIOR WATER SUPPLY PIPING SHALL BE INSTALLED NOT LESS THAN 6 INCHES BELOW THE FROST LINE AND NOT LESS THAN 12 INCHES BELOW GRADE.
- 12 JOINTS AT THE ROOF AND AROUND VENT PIPES SHALL BE MADE WATER TIGHT BY THE USE OF AN APPROVED FLASHING OR FLASHING MATERIAL. EXTERIOR WALL OPENINGS SHALL BE MADE WATER TIGHT.
- 13 ALL PLUMBING PIPING SHALL BE SUPPORTED IN AN APPROVED MANNER INDICATED IN SECTION 308 OF THE IPC. MAXIMUM SPACING OF SUPPORTS SHALL BE IN ACCORDANCE WITH THE MATERIAL USED AND AS INDICATED IN IPC TABLE 308.5.
- 14 CONDENSATE PIPING SERVING A FUEL BURNING APPLIANCE SHALL BE OF APPROVED CORROSION-RESISTANT MATERIAL AND NOT SMALLER THAN THE DRAIN CONNECTION TO THE APPLIANCE.
- 15 CONDENSATE PIPING SERVING COOLING COILS AND EVAPORATORS SHALL BE OF AN APPROVED MATERIAL AS LISTING IN IPC ARTICLE 314.2.1. COMPONENTS SHALL BE LISTED FOR THE PRESSURE AND TEMPERATURE RATING OF THE INSTALLATION. PIPING SHALL BE NOT LESS THAN 3/4 INCH IN DIAMETER AND NOT DECREASE IN SIZE FROM THE DRAIN PAN TO THE PLACE OF DISPOSAL.
- 16 CONDENSATE DRAINS FROM FUEL-BURNING APPLIANCES AND FROM COOLING AND EVAPORATOR COILS SHALL BE CONVEYED TO AN APPROVED PLACE OF DISPOSAL OR PLUMBING FIXTURE. SUCH PIPING SHALL MAINTAIN A HORIZONTAL SLOPE IN THE DIRECTION OF DISCHARGE OF NOT LESS THAN 1%. CONDENSATE SHALL NOT DISCHARGE INTO A STREET, ALLEY, PEDESTRIAN WALKWAY, OR OTHER AREAS SO AS TO CAUSE A NUISANCE.
- 17 PRIMARY CONDENSATE REMOVAL SYSTEMS FOR FUEL-BURNING APPLIANCES, COOLING COILS, AND EVAPORATORS SHALL BE PROVIDED WITH A SECONDARY DRAIN SYSTEM TO PREVENT OVERFLOW AS LISTED IN IPC ARTICLE 314.2.3.

ABBREVIATIONS			
AAV	AIR ADMITTANCE VALVE	IM	ICE MACHINE
AD	ACCESS DOOR	KS	KITCHEN SINK
AFF	ABOVE FINISH FLOOR	KW	KILOWATT
ADJ	ADJUSTABLE	LAV	LAVATORY
AOR	ARCHITECT OF RECORD	LBS	POUNDS
BFP	BACKFLOW PREVENTER	MAX	MAXIMUM
BOD	BASIS OF DESIGN	MBH	1,000 BTU/HR
BTU	BRITISH THERMAL UNIT	MCA	MAX. CIRCUIT AMPERAGE
BTU/HR	BRITISH THERMAL UNIT PER HOUR	MIN	MINIMUM
CFH	CUBIC FEET PER HOUR	MOC	MAX. OVERCURRENT PROTECTION
CO	CLEANOUT	MS	MOP SINK
COND	CONDENSATE	N/A	NOT APPLICABLE
CW	COLD WATER	PRV	PRESSURE REDUCING VALVE
Ø	DIAMETER	REF	REFRIGERATOR
DF-X	DRINKING FOUNTAIN	RPM	ROTATIONS PER MINUTE
DN	DOWN	SF	SQUARE FEET
DW-X	DISHWASHER	SH	SHOWER
DWG/S	DRAWING/S	SK	SINK
ECO	EXTERIOR CLEANOUT	SP	STATIC PRESSURE
EOR	ENGINEER OF RECORD	SS	SANITARY SEWER
EX	EXISTING	TYP	TYPICAL
FCO	FLOOR CLEANOUT	UR	URINAL
FD	FLOOR DRAIN	V	VENT
FS	FLOOR SINK	VTR	VENT THRU ROOF
FT	FEET	W/	WITH
HB	HOSE BIBB	WC-X	WATER CLOSET
HD	HUB DRAIN	WC	WATER COLUMN
HP	HORSEPOWER	WCO	WALL CLEANOUT
HR	HOUR	WG	WATER GAUGE
HW	HOT WATER	WH	WATER HEATER
IN	INCHES	WM	WASHING MACHINE/LAUNDRY

SHEET NUMBER

P01

SCALE @ 24" X 36"

DATE: 02-09-2024

DRAWN BY: AK

PLUMBING NOTES

145 & 155 W HOOVER ST,
WESTFIELD, INDIANA 46074, USA

SINGLE-FAMILY
RESIDENTIAL HOUSE

TRANSFORMATIVE

TransformativeConstruction@gmail.com
3975 Summit Circle NW
Acworth, GA 30101



© 2024

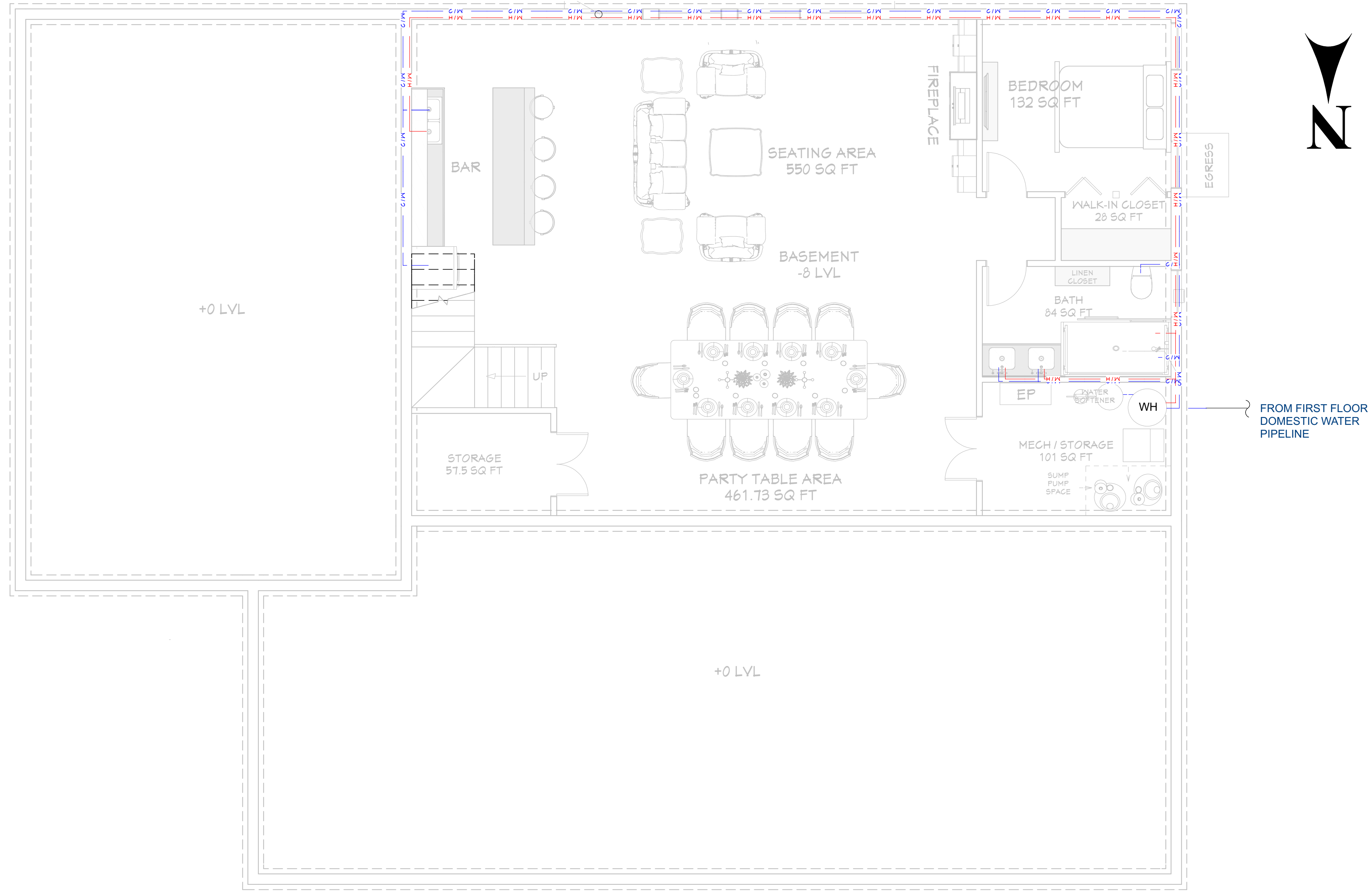
PLUMBING LEGEND	
SYMBOL	DESCRIPTION
— HW —	HOT WATER, COPPER TYPE L, OR CPVC
— W —	COLD WATER, COPPER TYPE L, OR PVC
— SS —	WASTE, PVC, SCHEDULE 40 (DWV)
— — —	VENT, (DWV)

PIPE SIZES:

- Cold Water Pipe Line = 3/4"
- Hot Water Pipe Line = 1/2"
- Sewer Pipe = 2.5"
- Main sewer Pipe = 3"
- Vent = 2"

General Notes:

- Selection of Cleanout Locations:
 1. The contractor shall select and provide suitable cleanout locations as per the plumbing layout and site conditions.
 2. Cleanouts must be installed at the base of all vertical soil and waste stacks.
 3. Cleanouts should be located at every change in direction greater than 45 degrees and at intervals not exceeding 100 feet for horizontal drainage piping.
 4. Cleanouts must be easily accessible for maintenance and inspection.
 5. Exterior cleanouts should be placed at least 3 feet from the foundation wall.
 6. All cleanout locations must comply with local plumbing codes and be approved by the plumbing inspector.
 7. Ensure cleanouts are capped and properly sealed when not in use.
 8. Contractor to verify and coordinate the final cleanout locations with the site supervisor and plumbing engineer.



BASEMENT FLOOR PLUMBING PLAN

1/4"=1'

SHEET NUMBER

P02

SCALE @ 24" X 36"

DATE: 02-09-2024

DRAWN BY: AK

BASEMENT PLUMBING PLAN

145 & 155 W HOOVER ST,
WESTFIELD, INDIANA 46074, USA

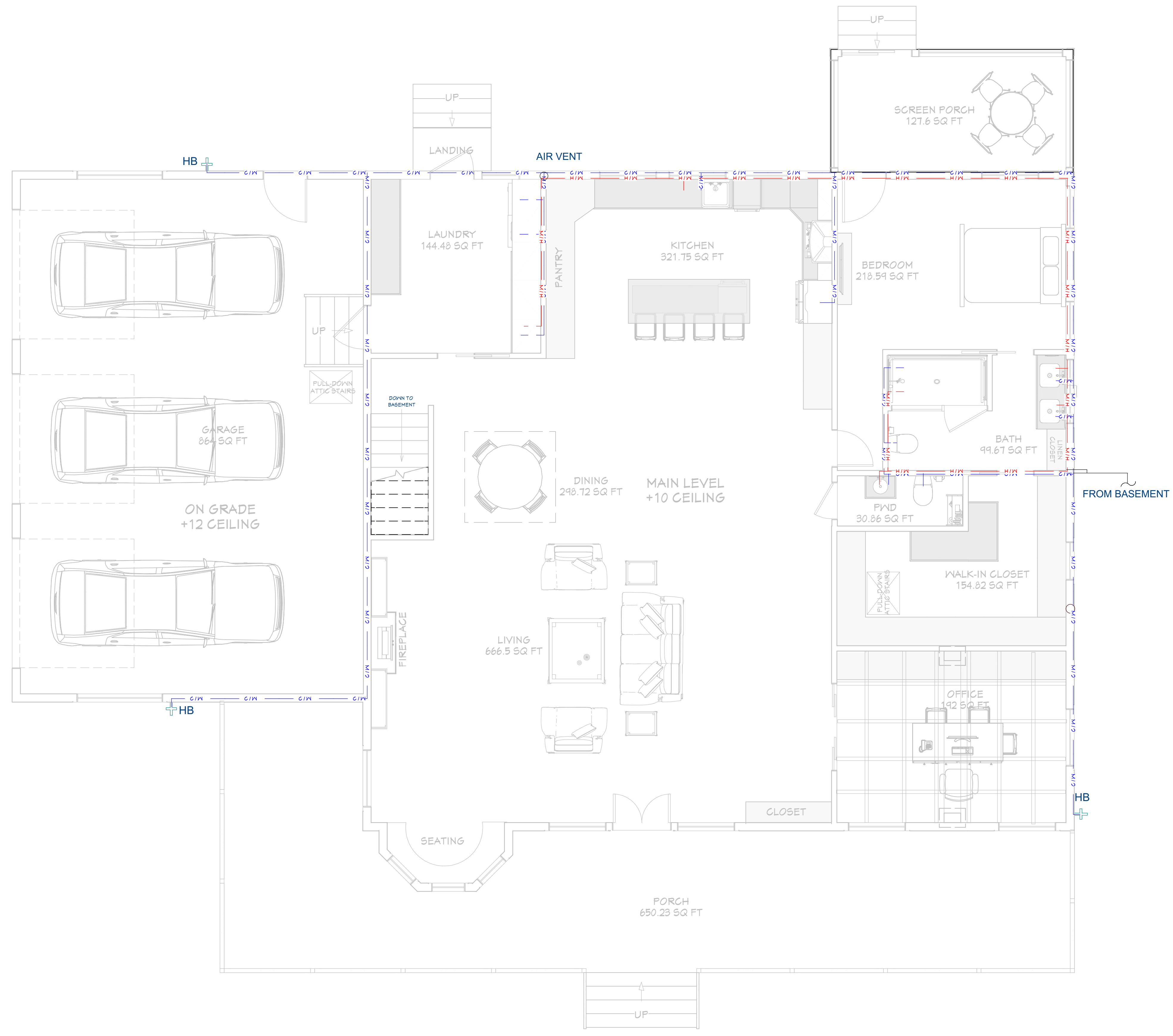
**SINGLE-FAMILY
RESIDENTIAL HOUSE**

TRANSFORMATIVE
TRANSFORMATIVE CONSTRUCTION
EXPERTS

© 2024
TransformativeConstruction@gmail.com
3975 Summit Circle NW
Acworth, GA 30101

PLUMBING LEGEND	
SYMBOL	DESCRIPTION
— HW —	HOT WATER, COPPER TYPE L, OR CPVC
— W —	COLD WATER, COPPER TYPE L, OR PVC
— SS —	WASTE, PVC, SCHEDULE 40 (DWV)
— — —	VENT, (DWV)

PIPE SIZES:
 Cold Water Pipe Line = 3/4"
 Hot Water Pipe Line = 1/2"
 Sewer Pipe = 2.5"
 Main sewer Pipe = 3"
 Vent = 2"



FIRST FLOOR PLUMBING PLAN
 1/4"=1'

SHEET NUMBER
P03

SCALE @ 24" X 36"
 DATE: 02-09-2024
 DRAWN BY: AK

**FIRST FLOOR
 PLUMBING PLAN**

145 & 155 W HOOVER ST,
 WESTFIELD, INDIANA 46074, USA

**SINGLE-FAMILY
 RESIDENTIAL HOUSE**

TRANSFORMATIVE
 TransformativeConstruction@gmail.com
 3975 Summit Circle NW
 Acworth, GA 30101

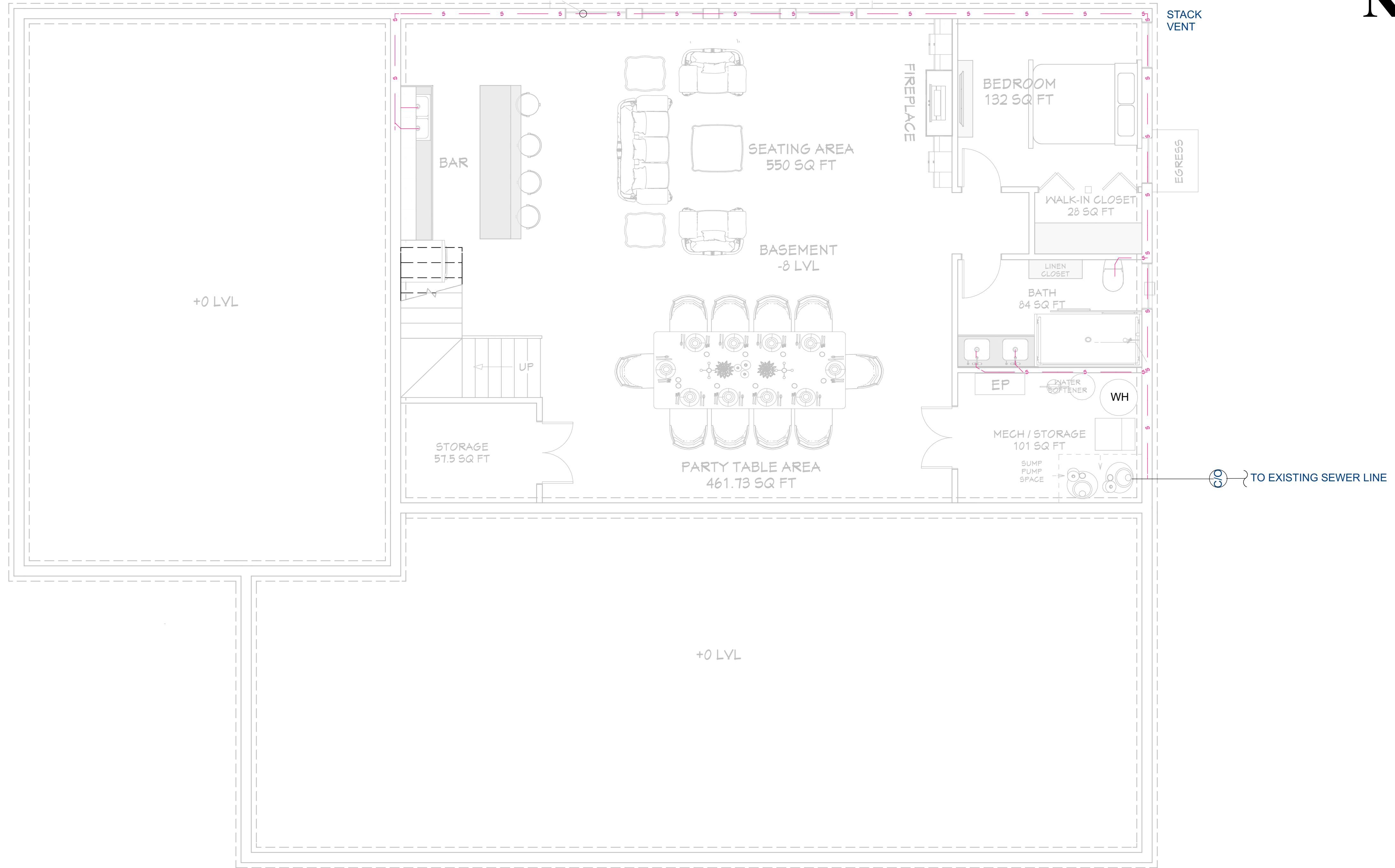
© 2024



PLUMBING LEGEND	
SYMBOL	DESCRIPTION
— HW —	HOT WATER, COPPER TYPE L, OR CPVC
— W —	COLD WATER, COPPER TYPE L, OR PVC
— SS —	WASTE, PVC, SCHEDULE 40 (DWV)
— — —	VENT, (DWV)

PIPE SIZES:

- Cold Water Pipe Line = 3/4"
- Hot Water Pipe Line = 1/2"
- Sewer Pipe = 2.5"
- Main sewer Pipe = 3"
- Vent = 2"



SHEET NUMBER
P04

SCALE @ 24" X 36"
DATE: 02-09-2024
DRAWN BY: AK

BASEMENT SEWER PLAN

145 & 155 W HOOVER ST,
WESTFIELD, INDIANA 46074, USA
SINGLE-FAMILY RESIDENTIAL HOUSE

TRANSFORMATIVE
TransformativeConstruction@gmail.com
3975 Summit Circle NW
Acworth, GA 30101



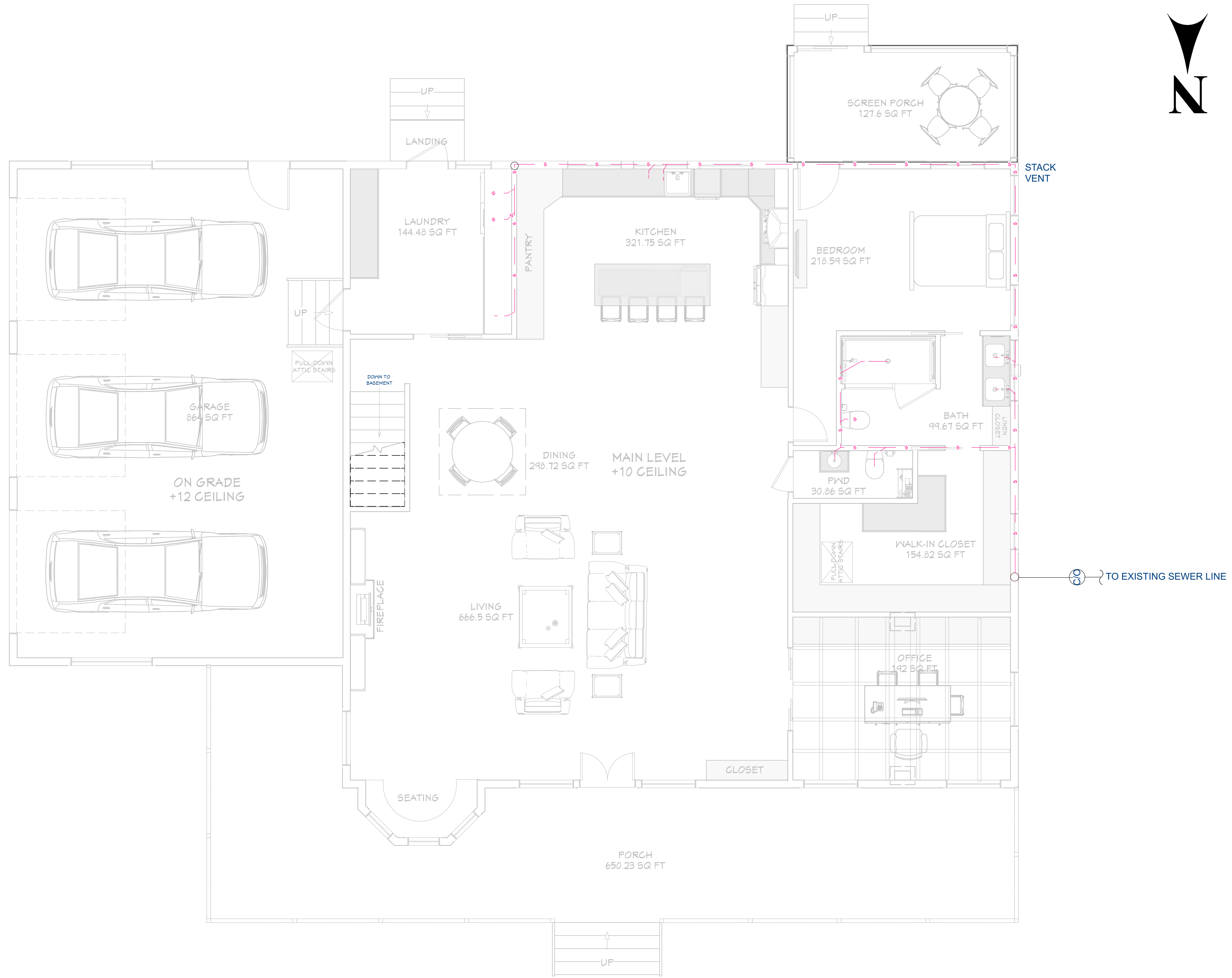
BASEMENT FLOOR SEWER PLAN

1/4"=1'

PLUMBING LEGEND	
SYMBOL	DESCRIPTION
— HW —	HOT WATER, COPPER TYPE L, OR CPVC
— W —	COLD WATER, COPPER TYPE L, OR PVC
— SS —	WASTE, PVC, SCHEDULE 40 (DWV)
— — —	VENT, (DWV)

PIPE SIZES:

- Cold Water Pipe Line = 3/4"
- Hot Water Pipe Line = 1/2"
- Sewer Pipe = 2.5"
- Main sewer Pipe = 3"
- Vent = 2"



FIRST FLOOR SEWER PLAN

1/4"=1'

SHEET NUMBER
P05

SCALE @ 24" X 36"
DATE: 02-09-2024
DRAWN BY: AK

FIRST FLOOR SEWER PLAN

145 & 155 W HOOVER ST,
WESTFIELD, INDIANA 46074, USA
SINGLE-FAMILY RESIDENTIAL HOUSE

TRANSFORMATIVE CONSTRUCTION EXPERTS
© 2024
TransformativeConstruction@gmail.com
3975 Summit Circle NW
Acworth, GA 30101

SPECIFICATIONS

A. APPLICABLE CODE

CONTRACTOR SHALL FOLLOW ALL APPLICABLE GOVERNING CODES AS WELL AS ANY STATE AMENDMENTS. CONTRACTOR SHALL ENSURE CORRECT EDITION IS REFERENCED ACCORDING TO CODE ADOPTION BY STATE AND PERMITTING AGENCIES. APPLICABLE CODES INCLUDE BUT ARE NOT LIMITED TO:

INTERNATIONAL ENERGY CONSERVATION CODE (IECC) INTERNATIONAL FIRE CODE (IFC)
INTERNATIONAL FUEL GAS CODE (IFGC)
INTERNATIONAL MECHANICAL CODE (IMC)
INTERNATIONAL PLUMBING CODE (IPC)

B. EXISTING CONDITIONS

- BIDDERS ARE TO VISIT THE SITE AND FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS AND SATISFY THEMSELVES AS TO THE NATURE AND SCOPE OF WORK. THE SUBMISSION OF A BID WILL BE EVIDENCE THAT SUCH AN EXAMINATION HAS BEEN MADE. LATER CLAIMS FOR LABOR, EQUIPMENT, OR MATERIALS REQUIRED, OR FOR DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN HAD AN EXAMINATION BEEN MADE, WILL NOT BE ALLOWED.
- CONTRACTOR SHALL BE RESPONSIBLE TO PROPERLY SUPPORT AND MAINTAIN ALL EXISTING ACTIVE SERVICES. IF INTERRUPTION OF THE ACTIVE SERVICES IS NECESSARY, IT SHALL BE COORDINATED WITH ALL AFFECTED PARTIES, INCLUDING THE OWNER, LANDLORD AND/OR TENANT(S) IF APPLICABLE. EXISTING SERVICES THAT ARE INACTIVE OR WILL NOT BE REUSED AS PART OF THIS WORK SHALL BE REMOVED, CAPPED AND/OR PLUGGED AS NECESSARY.
- WALL, FLOOR, OR CEILING SURFACES DISTURBED DURING THE COURSE OF THE MECHANICAL WORK SHALL BE REPAIRED TO MATCH NEW AND/OR EXISTING SURROUNDING CONDITIONS.

C. GENERAL NOTES

- CONTRACTOR TO PAY FOR ALL PERMITS, FEES, INSPECTIONS AND TESTING.
- "VERIFY" OR "VERIFY IN THE FIELD" (VIF) SHALL MEAN CHECK CONDITIONS ON SITE AGAINST DRAWINGS AND SPECIFICATION AND ADJUST WORK TO MATCH EXISTING. OBTAIN RULING FROM OWNER ON ANY ITEMS REQUIRING CLARIFICATION.
- THE SCHEDULED "BASIS OF DESIGN" (BOD) IS INTENDED TO INDICATE THE PERFORMANCE REQUIRED FOR THE PARTICULAR ITEM OF EQUIPMENT. SUBSTITUTIONS WILL BE PERMITTED BASED ON THE REQUIREMENTS OF THE SPECIFICATIONS AND WITH THE WRITTEN APPROVAL OF THE ENGINEER OF RECORD. SUBSTITUTIONS SHALL BE DEEMED TO INCLUDE ALL ASSOCIATED CHANGES TO BUILDING, STRUCTURE, AND OTHER SERVICES WITHOUT ANY ADDITIONAL COST TO THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THAT SUBSTITUTIONS WILL FIT INTO THE SPACE AVAILABLE WITH PROVISIONS FOR PROPER ACCESS, MAINTENANCE, PARTS REPLACEMENT, WEIGHT ALLOWANCE, AND FOR COORDINATION WITH OTHER TRADES (INCLUDING ELECTRICAL, PLUMBING, STRUCTURAL, AND ARCHITECTURAL).
- DO NOT SCALE DRAWINGS. THE CONTRACTOR SHALL VERIFY ALL SIZES, MATERIALS, TEMPERATURES, AND PRESSURES BEFORE ORDERING OR FABRICATION OF ANY MATERIALS.
- ALL DUCT DIMENSIONS INDICATED ON THE DRAWINGS ARE CLEAR INSIDE DIMENSIONS.
- WHERE DUCT OR PIPE SECTION SIZE ARE NOT SHOWN, USE THE SIZE SHOWN ON THE LAST SECTION SIZE SHOWN UPSTREAM OF THE SECTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR SAFETY OF OWN PERSONNEL EMPLOYED ON THIS PROJECT AND IN PARTICULAR WHEN WORKING IN CONFINED SPACES AND SHALL COMPLY WITH OSHA REQUIREMENTS.
- THE TOTAL CFMS AT DIFFUSERS MAY NOT ADD UP TO THE TOTAL CFMS SCHEDULED FOR THE AIR HANDLING UNITS IN ALL CASES. WHERE THIS OCCURS ADJUST THE SPEED/FAN DRIVES TO ACHIEVE THE DESIGN CFMS AT THE REGISTERS.
- THE MECHANICAL (SUB) CONTRACTOR SHALL COORDINATE THE SPACE REQUIREMENTS FOR ALL MECHANICAL EQUIPMENT AND DUCTWORK WITH THE GENERAL CONTRACTOR. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ORDERING AND FABRICATION OF STRUCTURAL ELEMENTS, INCLUDING ROOF TRUSSES, TO SUIT THE PROPOSED ROUTING OF THE DUCTWORK AND LOCATION OF EQUIPMENT. PROVIDE ADEQUATE CLEARANCES AROUND, AND ACCESS TO, ALL EQUIPMENT FOR MAINTENANCE.
- REFER TO ARCHITECT'S REFLECTED CEILING PLANS FOR LOCATION OF LIGHTS AND OTHER CEILING MOUNTED DEVICES. COORDINATE AIR DISTRIBUTION DEVICES WITH THIS REFLECTED CEILING PLAN. IF A PARTICULAR ITEM CANNOT BE LOCATED APPROXIMATELY AS SHOWN ON THE HVAC LAYOUT, THE CONTRACTOR SHALL PREPARE A DRAWING SHOWING A PROPOSED LOCATION AND SHALL SUBMIT IT TO THE OWNER FOR APPROVAL.
- THE CONTRACTOR SHALL REVIEW ALL CONTRACT DOCUMENTS, INCLUDING THE DRAWINGS AND THE WRITTEN SPECIFICATIONS IF PROVIDED. THE CONTRACTOR SHALL BE FAMILIAR WITH THE SCOPE AND REQUIREMENT OF THE PROJECT AND SHALL IMMEDIATELY INFORM THE ARCHITECT OR ENGINEER OF RECORD OF ANY DISCREPANCY OR LACK OF INFORMATION IS FOUND PRIOR TO SUBMITTING PROPOSAL. ONCE THE CONTRACTOR HAS SUBMITTED A PROPOSAL FOR THE WORK, THE CONTRACTOR ACCEPTS THAT THE INFORMATION PROVIDED HERE IS SUFFICIENT AND NO ADDITIONAL COST SHALL RESULT BASED ON CLARITY OF THE CONTRACT DOCUMENTS.
- THE MECHANICAL CONTRACTOR SHALL BE FAMILIAR WITH THE ENTIRE CONSTRUCTION DOCUMENT DURING THE PRICING AND CONSTRUCTION TO COORDINATE WITH ALL OTHER DISCIPLINES.
- A TECHNICIAN, FACTORY TRAINED AND CERTIFIED BY THE MANUFACTURER OF THE HVAC EQUIPMENT PROVIDED, SHALL PERFORM PRE-START-UP CHECKS AND SHALL SUBMIT A REPORT TO THE OWNER ON EACH EQUIPMENT, INCLUDING BUT NOT LIMITED TO THE AIR HANDLING UNIT, ROOF-TOP UNIT, AND SPLIT SYSTEM. THIS REPORT SHALL INCLUDE CERTIFICATION, IN WRITING, THAT THE EQUIPMENT IS CORRECTLY INSTALLED (INCLUDING PROPER DRAINAGE FROM DRAIN PANS AND SEALING OF ALL AIR LEAKS); ELECTRICAL CONNECTION AND TERMINAL TIGHTNESS, GAS PIPING IS LEAK FREE; INDOOR FILTERS ARE CLEAN, IN PLACE, AND EASILY REPLACEABLE; FANS AND COMPRESSORS ROTATE CORRECTLY; ELECTRICAL AMP DRAWS SHALL BE RECORDED AND CERTIFIED WITHIN MANUFACTURER'S RECOMMENDED LIMITS; REFRIGERANT SUCTION AND DISCHARGE PRESSURES FOR ALL CIRCUITS WITH STATEMENT THAT SYSTEMS ARE CORRECTLY CHARGED.
- PROVIDE A COMPLETE FUNCTIONAL HVAC SYSTEM WITH ALL ACCESSORIES REQUIRED FOR PROPER OPERATION, ALL IN ACCORDANCE WITH THE APPLICABLE REFERENCED CODES AND STANDARDS. THE SYSTEMS SHALL BE FREE FROM ANY OBJECTIONABLE NOISES AND VIBRATIONS.

D. SUBMITTALS AND SHOP DRAWINGS

- MANUFACTURER CATALOG SHOP DRAWINGS SUBMITTED SHALL BE MARKED TO INDICATE PROJECT SPECIFIC INFORMATION: FULL MODEL NUMBERS; IDENTIFY AND HIGHLIGHT SCHEDULED ITEM CAPACITIES; HIGHLIGHT INCLUDED OPTIONS AND EDIT OUT THOSE THAT ARE NOT PROVIDED; CLEARLY IDENTIFY DEVIATIONS FROM SPECIFIED AND SCHEDULED CAPACITIES.
- NOTWITHSTANDING THE LISTING HEREIN OF ANY EQUIPMENT BY MANUFACTURER AND MODEL, THE CONTRACTOR SHALL VERIFY WITH THE VENDORS THAT ALL MANUFACTURERS' NAMES, MAKES, AND MODELS OF EQUIPMENT LISTED MEET SPECIFICATION AND COMPLY WITH THE REQUIREMENTS OF THE SPECIFICATION. ANY DEVIATION FROM MODEL NUMBER OR EQUIPMENT DESIGN, FABRICATION, OR CONSTRUCTION OF MAKES OR EQUIPMENT SHALL REQUIRE SUBMITTAL OF THE PARTICULAR ITEM OF EQUIPMENT FOR PRIOR APPROVAL AT LEAST 10 WORKING DAYS BEFORE THE DATE FOR SUBMITTAL OF BIDS OR AS DEFINED IN THE WRITTEN SPECIFICATION BOOK (IF PROVIDED).
- ALL EQUIPMENT PROVIDED SHALL BE COMMERCIALY AVAILABLE PRODUCTS SPECIFICALLY MADE FOR THE APPLICATION FOR WHICH IT IS INTENDED AND SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION AND START-UP INSTRUCTIONS. PROVIDE WRITTEN CERTIFICATION FROM THE MANUFACTURER OR THEIR AUTHORIZED REPRESENTATIVE TO THIS EFFECT BEFORE FINAL INSPECTION FOR ALL EQUIPMENT AND COMPONENTS.

- THE CONTRACTOR SHALL VERIFY THE ELECTRICAL SUPPLY VOLTAGES AND PHASES ON THE ELECTRICAL PLANS AND ON SITE BEFORE ORDERING ANY ELECTRICALLY OPERATED EQUIPMENT. ALL MECHANICAL EQUIPMENT REQUIRING ELECTRICAL POWER SHALL BE PROVIDED AND INSTALLED WITH SUITABLE PROTECTED AND RATED DISCONNECT SWITCHES.
- THE CONTRACTOR SHALL PREPARE DUCT CONSTRUCTION SHOP DRAWINGS, TO SCALE (MINIMUM SCALE=1'-0"). SUBMIT TO THE OWNER FOR REVIEW PRIOR TO FABRICATION AND INSTALLATION. DUCT SHOP DRAWINGS SHALL BE UPDATED, DURING CONSTRUCTION, TO SHOW ANY CHANGES MADE DURING CONSTRUCTION AND SUBMITTED TO THE OWNER AT THE END OF THE PROJECT FOR "AS-BUILT" RECORD.
- DRAWINGS ARE DIAGRAMMATIC AND ALL CHANGES IN ELEVATION, ACCESS DOORS, AND TRANSITIONS IN DUCT SIZES SHALL BE SHOWN ON THE SHOP DRAWINGS AS REQUIRED BY THE APPLICABLE CODES AND CONTRACT DOCUMENTS. DUCT CROSS-OVERS IMPLY CHANGES IN ELEVATION IN ONE OR BOTH DUCTS; TRANSITIONS IN DUCT SIZE AND SHAPE ARE IMPLIED BY SIZES SHOWN ON DRAWINGS. BIDDERS SHALL MAKE ALLOWANCE FOR THESE IN THEIR PRICE.
- SHOP DRAWINGS AND SUBMITTALS WILL ONLY BE REVIEWED TWICE AS PART OF THIS CONTRACT. ADDITIONAL SHOP DRAWINGS REVIEWS SHALL BE INVOICED AT \$85 PER HOUR, BILLABLE TO THE SUB CONTRACTOR, C.O.D.

E. QUALITY OF WORK

- CONTRACTOR TO GUARANTEE ALL MATERIALS AND WORKMANSHIP FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN ONE (1) YEAR FROM DATE OF ACCEPTANCE UNLESS INDICATED OTHERWISE IN THE WRITTEN SPECIFICATIONS.
- COORDINATE THE INSTALLATION OF THE DUCTWORK, EQUIPMENT, PIPING, ETC., TO FIT WITHIN THE SPACE ALLOWED BY THE ARCHITECTURAL AND STRUCTURAL CONDITIONS. CUTTING OR ALTERING ANY STRUCTURAL MEMBER SHALL NOT BE PERMITTED.
- ALL DUCTWORK AND EQUIPMENT SHALL BE SUPPORTED INDEPENDENTLY FROM STRUCTURAL MEMBERS. PROVIDE ADDITIONAL SUPPORT MEMBERS WHERE REQUIRED TO ACHIEVE SMACNA RECOMMENDED SUPPORT SPACING.
- ALL MATERIALS IN PLENUM SHALL MEET THE FLAME SPREAD AND SMOKE DEVELOPMENT INDEX PER NFPA 90A SECTION 4.3.11.
- ALL PENETRATION THROUGH FIRE RATED FLOORS, WALLS, AND PARTITIONS SHALL BE FIRE STOPPED TO COMPLY WITH THE APPLICABLE EDITION, INCLUDING AMENDMENTS, OF THE INTERNATIONAL BUILDING CODE, PARTICULARLY SECTION 714. FIRE STOP SYSTEM USED SHALL BE UL LISTED, OR EQUIVALENT AS ACCEPTED BY THE AHJ, AND SHALL BE INSPECTED AND CERTIFIED BY THE MANUFACTURER'S AUTHORIZED REPRESENTATIVE.
- INSTALL FIRE DAMPERS IN ALL DUCTS EXCEEDING 100 SQ. IN. CROSS-SECTIONAL AREA PENETRATING RATED WALLS. FIRE DAMPERS ARE NOT REQUIRED IN DUCTS, THROUGH 1-HOUR FIRE RATED WALLS, LESS THAN 100 SQ. IN. LOCATED ABOVE A CEILING WHICH HAS A MINIMUM 5'-0" OF HARD 0.0217" THICK STEEL MINIMUM DUCT TO NEAREST INLET OR OUTLET ON EITHER SIDE OF THE 1-HOUR FIRE RATED PARTITION.
- SOLVENTS, PAINTS, ADHESIVES, SEALANTS, AND OTHER MATERIALS THAT EMIT POLLUTANTS THAT COULD CAUSE IRRITATION OR HEALTH PROBLEMS FOR OCCUPANTS SHALL NOT BE USED UNLESS THE WORK IS DONE AFTER HOURS AND ADEQUATE VENTILATION IS PROVIDED DURING CONSTRUCTION AND AS LONG AFTERWARDS AS REQUIRED TO KEEP THE POLLUTANTS WITHIN EPA AND OSHA APPROVED LIMITS.
- PIPING, CONDUITS, CABLES, ETC., SHALL BE RUN NEATLY, PARALLEL TO EXISTING AND NEW PIPING AND TO BUILDING (WALLS, FLOORS). SUPPORT SHALL BE PROVIDED IN ACCORDANCE WITH INDUSTRY STANDARD.
- ALL WIRING IN THE CEILING PLENUM SHALL BE DONE WITH PLENUM RATED CABLE OR RUN IN ELECTRO-METALLIC TUBING (CONDUIT).
- MOUNT THERMOSTATS AS INDICATED ON PLANS 48" A.F.F. UNLESS OTHERWISE NOTED OR AS REQUIRED FOR ACCESSIBILITY CODE COMPLIANCE. COORDINATE LOCATION OF THERMOSTATS WITH CABINETS AND OTHER SERVICES. THE THERMOSTATS SHALL NOT BE INSTALLED ON OUTSIDE WALLS, IN THE DIRECT AIR STREAM FROM ANY DIFFUSER, WHERE IT MAY BE INFLUENCED BY HEAT GIVEN OFF FROM EQUIPMENT, NOR ON WALL AREAS EXPOSED TO DIRECT SUNLIGHT.
- PORTIONS OF DUCTWORK OR PIPING VISIBLE THROUGH GRILLES AND REGISTERS IN FINISHED AREAS SHALL BE PAINTED FLAT BLACK.
- ENSURE PROPER CONDENSATE REMOVAL FROM ALL AIR HANDLING UNIT DRAINS. CONDENSATE DRAIN PIPING AND FITTINGS REQUIRED SHALL BE TYPE "L" COPPER. INSTALL WITHOUT ANY SAGGING TO ENSURE COMPLETE DRAINAGE. PROVIDE A TRAP OR CONDENSATE DRAINS AT EACH UNIT AS DETAILED OR AS INDICATED IN MANUFACTURER'S INSTALLATION INSTRUCTIONS. THE CONDENSATE DRAIN SHALL BE THE SAME SIZE AS THE UNIT DRAIN CONNECTION BUT SHALL NOT BE LESS THAN PIPE DIAMETER RECOMMENDED BY MANUFACTURER.
- PROVIDE WATERTIGHT SHEET METAL RUST PROOF PAN UNDER INDOOR UNITS, 2" DEEP.
- ALL WALL OPENINGS NOTED ON FLOOR PLANS SHALL BE LOCATED ABOVE THE CEILING UNLESS NOTED OTHERWISE.
- THE GENERAL CONTRACTOR SHALL ENSURE THAT THE BUILDING ENVELOPE AROUND THE AIR-CONDITIONED SPACE IS SEALED. THE MECHANICAL CONTRACTOR SHALL ENSURE THAT RETURN AND EXHAUST AIR DUCT LOCATED OUTSIDE THE AIR-CONDITIONED ENVELOPE, WHICH INCLUDES VERTICAL CHASES, CEILING SPACES, ATTICS, ETC., ARE SEALED.
- ROOF CURBS, RAILS, AND PENETRATIONS: ALL ROOF PENETRATIONS SHALL BE WATERPROOF AND GUARANTEED FREE FROM LEAKS FOR ONE YEAR. USE CURBS AND RAILS MANUFACTURED BY THE MANUFACTURER OF THE EQUIPMENT PROVIDED OR BY PATE, CUSTOM CURBS, OR APPROVED EQUAL. INSTALL ROOF MOUNTED AIR HOODS AND EQUIPMENT CURBS AND RAILS IN ACCORDANCE WITH THE EQUIPMENT MANUFACTURER'S INSTRUCTIONS AND THE "GUIDELINES FOR ROOF MOUNTED OUTDOOR AIR-CONDITIONER INSTALLATIONS" AS PREPARED BY ARI, SMACNA, AND THE NATIONAL ROOFING CONTRACTORS ASSOCIATIONS, AUGUST 1997. THE CURBS FOR AND ROOF MOUNTED EQUIPMENT SHALL BE SELECTED BY THE MANUFACTURER OF THE CURB TO SUIT THE TYPE OF ROOF AND STRUCTURE AND SHALL BE FABRICATED TO MATCH THE FOOTPRINTS AND INSTALLATION REQUIREMENTS OF THE EQUIPMENT PROVIDED. ALL ROOFING WORK SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS, AND TO THE APPROVAL OF, THE MANUFACTURER OF THE BUILDING AND ROOFING SYSTEMS PROVIDED.
- ALL EQUIPMENT, VALVES, DAMPERS AND OTHER ELEMENTS REQUIRING ACCESS PER CODE, STANDARDS OR MANUFACTURER REQUIREMENTS SHALL BE PROVIDED WITH AN ACCESS PANEL. ACCESS PANEL FIRE RATING SHALL BE PER WALL, CEILING OR FLOOR RATING BEING PENETRATED.
- ALL CONTROL WIRING AND TRANSFORMERS SHALL BE SUPPLIED UNDER THE MECHANICAL CONTRACT. ALL MECHANICAL CONTROLS SHALL BE SUPPLIED BY THE MECHANICAL CONTRACTOR.

F. TEST AND BALANCE

- MECHANICAL CONTRACTOR SHALL RETAIN THE SERVICE OF AN INDEPENDANT TEST AND BALANCING FIRM TO PERFORM A COMPLETE TESTING, ADJUSTING AND BALANCING (TAB) FOR ALL MECHANICAL EQUIPMENT UNDER FIELD CONDITIONS TO ENSURE THE COMPLIANCE OF SYSTEM TO THE REQUIREMENTS OF THIS PLAN SET, ALL APPLICABLE CODES AND STANDARDS. TAB SHALL BE PERFORMED ACCORDING TO A STANDARD PROCEDURE BY NEBB OR AABC AND SHALL BE SUBMITTED TO THE OWNER.

G. DUCT WORK

- ALL AIR DUCTWORK SHALL BE GALVANIZED SHEET METAL, FABRICATED AND INSTALLED PER THE SMACNA "HVAC DUCT CONSTRUCTION STANDARDS, METAL AND FLEXIBLE". FLEXIBLE DUCT SHALL BE ALLOWED FOR 6 FEET MAXIMUM AT AIR REGISTERS.
- DUCTWORK SUPPORT FOR MEDIUM AND LOW-PRESSURE RIGID METAL DUCTWORK SHALL BE TRAPEZE TYPE (SEE SMACNA FIG. 4-4); STRAP HANGERS SCREWED AND/OR BOLTED TO DUCTWORK SHALL NOT BE ACCEPTED. FLEXIBLE DUCTWORK SHALL BE SUPPORTED PER SMACNA SECTION 3.7 AND FIGS. 3-9 AND 3-10.
- PROVIDE MANUAL VOLUME DAMPERS AT ALL BRANCH TAKE OFFS AND DUCT RUNOUTS TO DIFFUSERS AND FROM GRILLES WHETHER SHOWN ON THE DRAWINGS OR NOT. DAMPERS AT AIR REGISTERS ARE NOT TO BE USED IN LIEU OF THESE DAMPERS FOR PRIMARY BALANCING.
- ALL DIFFUSERS SUPPLIED BY DUCT BRANCHES LOCATED ABOVE AN INACCESSIBLE CEILING SHALL BE PROVIDED WITH A FACE OPERABLE DAMPER TO ALLOW THE BALANCING OF THE SYSTEM.

- TRANSITION RECTANGULAR DUCTWORK ON THE BOTTOM AND SIDES. MAINTAIN DUCTWORK LEVEL AND AS HIGH AS POSSIBLE UNLESS NOTED OTHERWISE.
- TRANSFORM DUCT SIZE SHOWN TO SUIT EQUIPMENT CONNECTION SIZE AT CONNECTIONS TO EQUIPMENT.
- PROVIDE A FLEXIBLE DUCT CONNECTION ON INTAKE AND DISCHARGE OF FANS, AIR HANDLING UNITS, ETC.
- DUCT BRANCH RUNOUTS TO THE DIFFUSERS, UNLESS OTHERWISE NOTED, SHALL BE THE SAME AS THE DIFFUSER NECK SIZES.
- ALL EXPOSED DUCTS TO BE PAINT GRIP CONSTRUCTION. PAINT TO BE SELECTED BY ARCHITECT FROM MANUFACTURER'S FULL RANGE OF COLORS.

H. DUCT AND PIPING INSULATION

- DUCT INSULATION SHALL BE AS FOLLOW:
 - SUPPLY DUCT: R-6 INSIDE AND R-8 OUTSIDE
 - RETURN DUCT: R-6 INSIDE AND R-8 OUTSIDE
 - OUTDOOR AIR DUCT: R-6 INSIDE AND R-8 OUTSIDE
 - EXHAUST DUCT: NOT INSULATED OR AS NOTED ON THE PLAN
 - TYPE 1 GREASE EXHAUST DUCT: FIRE RATED BLANKET/BOARD WITH THICKNESS TO ACHIEVE
 - 2-HOUR RATING (INSTALL PER MANUFACTURER)
- DUCT WORK INSULATION SHALL BE PROVIDED WITH A VAPOR BARRIER AND SHALL HAVE FLAME AND SMOKE RATING OF 25 AND 50 RESPECTIVELY. OVERLAP BUTTING EDGES, FOLD, SEAL AND TAPE, AND PROVIDE A CONTINUOUS VAPOR BARRIER. USE OF STAPLES WILL NOT BE ACCEPTED. ALL SHEET METAL SURFACES, INCLUDING THE TOPS OF SUPPLY AIR DIFFUSERS EXPOSED ABOVE THE CEILING, SHALL BE INSULATED.
- EXPOSED SPIRAL OR RECTANGULAR DUCT IN CONDITIONED SPACES SHALL BE PROVIDED WITH FIBERGLASS DUCT LINER. R-VALUE SHALL BE AS INDICATED ABOVE. DUCT LINER SHALL BE CUT TO PROVIDE OVERLAPPED AND COMPRESSED LONGITUDINAL CORNER JOINTS. DUCT LINER SHALL BE ADHERED TO THE DUCTWORK WITH A 100% COVERAGE OF THE SHEET METAL SURFACES USING A FIRE RETARDANT ADHESIVE. INSULATION SHALL CONTAIN AN EPA REGISTERED IMMOBILIZED ANTI-MICROBIAL AGENT TO EFFECTIVELY RESIST THE GROWTH OF BACTERIA AND FUNGI AS PROVEN BY TESTS IN ACCORDANCE WITH ASTM (USA) STANDARDS G21 AND G22. COAT ALL EXPOSED LEADING AND TRAILING EDGES AND ALL TRANSVERSE JOINT WITH FIRE RETARDANT ADHESIVE. THE LINER SHALL BE ADDITIONALLY SECURED USING METAL PINS WELDED TO THE DUCT AND SPEED WASHERS. SPACING OF METAL PINS SHALL BE IN ACCORDANCE WITH SMACNA DUCT CONSTRUCTION STANDARDS FIG. 2-19. PROVIDE A CHANNEL OR ZEE METAL NOSING SECTION PER SMACNA FIG. 2-19 ON EVERY LEADING EDGE REGARDLESS OF THE AIR DUCT VELOCITY IN THE DUCT SECTION.
- REFRIGERANT PIPE INSULATION: INSTALL 2" FLEXIBLE FOAM PLASTIC INSULATION ON SUCTION AND LIQUID LINES AND 1" ON HOT GAS LINES.

I. DIFFUSERS, GRILLES AND LOUVERS

- THE FINISH ON AIR REGISTERS IN LAY-IN CEILINGS SHALL EXACTLY MATCH THE CEILING TEES, EXCEPT IF NOTED OTHERWISE. THE TYPE AND FINISH FOR REGISTERS AND LOUVERS IN WALLS, DOORS, SHALL BE APPROVED BY ARCHITECT.
- REFER TO THE SCHEDULE FOR BASIS OF DESIGN SELECTION. CONTRACTOR TO VERIFY THAT BOD IS SUITABLE FOR THE APPLICATION PRIOR TO ORDERING.

145 & 155 W HOOVER ST,
WESTFIELD, INDIANA 46074, USA

SINGLE-FAMILY
RESIDENTIAL HOUSE

TRANSFORMATIVE

TransformativeConstruction@gmail.com
3975 Summit Circle NW
Acworth, GA 30101



HVAC NOTES

SHEET NUMBER

M01

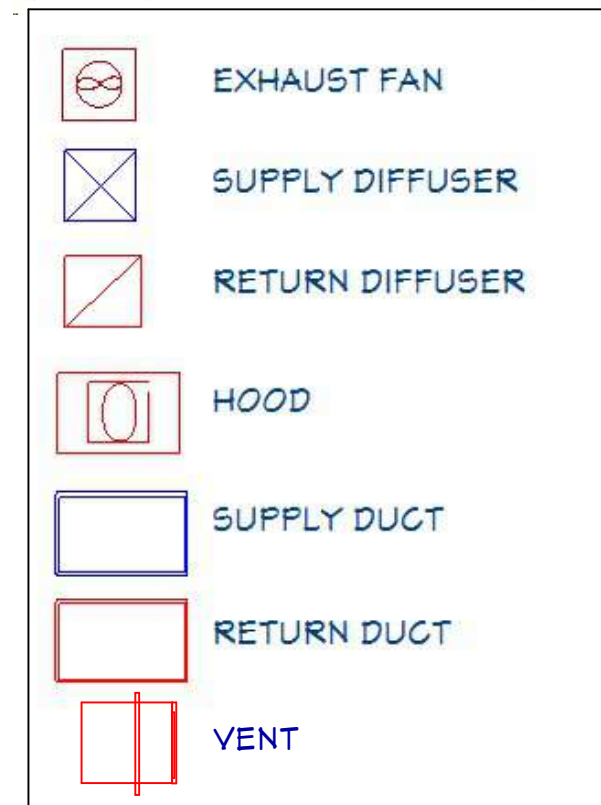
SCALE @ 24" X 36"

DATE: 02-09-2024

DRAWN BY: AK

© 2024

ABBREVIATIONS			
AD	ACCESS DOOR	KW	KILOWATT
AFF	ABOVE FINISH FLOOR	LAT	LEAVING AIR TEMPERATURE
AHU-X	AIR HANDLING UNIT	LBS	POUNDS
AJD	ADJUSTABLE	LD	LINEAR SLOT DIFFUSER
AOR	ARCHITECT OF RECORD	LF	LINEAR FEET
BD	BACKDRAFT DAMPER	LR	LINEAR SLOT RETURN
BOD	BASIS OF DESIGN	MA	MAKE UP AIR
BTU	BRITISH THERMAL UNIT	MAU-X	MAKE UP AIR UNIT
BTU/HR	BRITISH THERMAL UNIT PER HOUR	MAX	MAXIMUM
C/C	COOLING COIL	MBH	1,000 BTH/HR
CD	CEILING DIFFUSER	MCA	MAX. CIRCUIT AMPERAGE
CFM	CUBIC FEET PER MINUTE	MIN	MINIMUM
CLG	CEILING	MIU-X	MULTI-SPLIT INDOOR UNIT
COMP-X	COMPRESSOR	MOC-P	MAX. OVERCURRENT PROTECTION
CONC	CONCRETE	MOD	MOTORIZED DAMPER
COND	CONDENSATE	MOU-X	MULTI-SPLIT OUTDOOR UNIT
CU-X	CONDENSING UNIT	MD	MANUAL DAMPER
dB	DECIBEL	NO	NORMALLY OPENED
DB	DRY BULB	NC	NORMALLY CLOSED
Ø	DIAMETER	N/A	NOT APPLICABLE
DD	DUCT MOUNTED AIR DIFFUSER	OA	OUTSIDE AIR
DN	DOWN	OC	ON CENTER
DR	DUCT MOUNTED AIR RETURN	OUI-X	MINI-SPLIT OUTDOOR UNIT
DWGS	DRAWINGS	PIU-X	POWERED INDUCTION UNIT
EA	EXHAUST AIR	RA	RETURN AIR
EAT	ENTERING AIR TEMPERATURE	RG	RETURN AIR GRILLE
EDH	ELECTRICAL DUCT HEATER	RH	RELATIVE HUMIDITY
EF-X	EXHAUST FAN	RPM	ROTATIONS PER MINUTE
EG	EXHAUST GRILLE	RTU-X	ROOFTOP UNIT
EOR	ENGINEER OF RECORD	SA	SUPPLY AIR
ESP	EXTERNAL STATIC PRESSURE	SF	SQUARE FEET
EX	EXISTING	SP	STATIC PRESSURE
EXH	EXHAUST	SR	SUPPLY REGISTER
FCU-X	FAN COIL UNIT	SS	STAINLESS STEEL
FD	FIRE DAMPER	TG	TRANSFER GRILLE
FSD	FIRE/SMOKE DAMPER	TYP	TYPICAL
FT	FEET	UC	UNDERCUT
H/C	HEATING COIL	UH-X	UNIT HEATER
HP	HORSEPOWER	VAV-X	VARIABLE AIR VOLUME UNIT
HP-X	HEAT PUMP	VFD	VARIABLE FREQUENCY DRIVE
HR	HOUR	W/	WITH
IN	INCHES	WET BULB	WET BULB
IU-X	MINI-SPLIT INDOOR UNIT	WC	WATER COLUMN
KEF-X	KITCHEN EXHAUST FAN	WG	WATER GAUGE



VENTILATION NOTES:

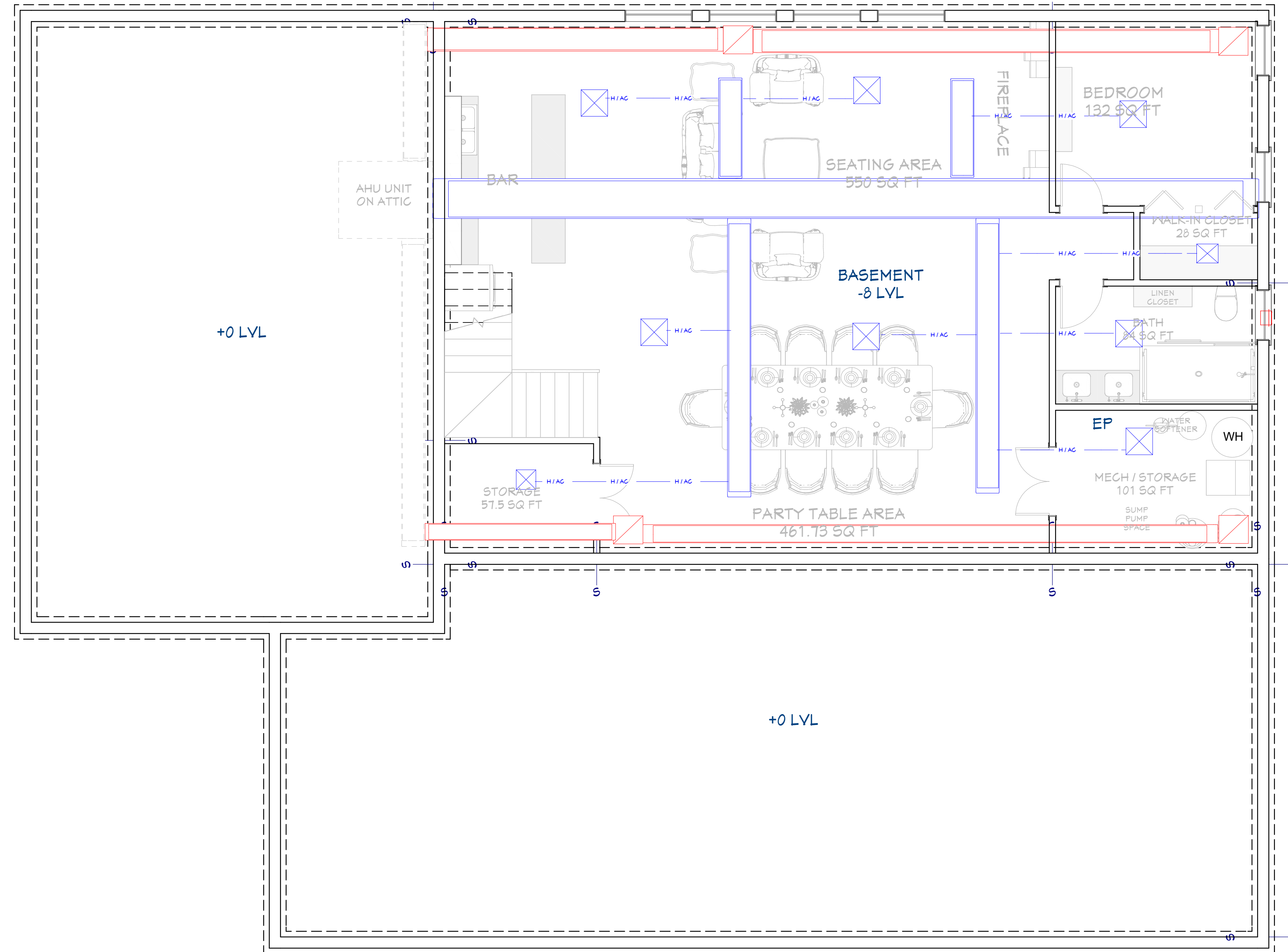
ALL COMBUSTION APPLIANCES WILL BE VENTED DIRECTLY TO THE EXTERIOR. FURNACE FIREBOX AND TANKLESS WATER HEATER SHALL HAVE OUTSIDE COMBUSTION AIR SUPPLY PURSUANT TO REGIONAL AND LOCAL CODES.

ATTIC SHALL HAVE VENTILATION EQUAL TO 1 SQ. FOOT PER 150 SQ. FEET OF ATTIC SPACE. VENTILATION SHALL BE PROTECTED FROM SNOW AND RAIN AND SHALL BE COVERED WITH GALVANIZED WIRE SCREEN. OPENINGS SHALL BE LOCATED TO PROVIDE CROSS VENTILATION.

EXHAUST ALL VENTS AND FANS DIRECTLY TO OUTSIDE VIA METAL DUCTS, PROVIDE 90 CFM (MIN) FANS TO PROVIDE 5 AIR CHANGES PER HOUR IN BATHS CONTAINING TUB AND / OR SHOWER AND IN LAUNDRY ROOMS.

GARAGES SHALL BE VENTED WITH 60 SQUARE INCHES LOCATED 6" ABOVE THE FLOOR SURFACE.

UNDER FLOOR SPACES SHALL HAVE VENTILATION EQUAL TO ONE SQ. FOOT PER 150 SQ. FEET OF FLOOR SPACE. VENTS SHALL BE CAST INTO THE CONCRETE STEM WALLS AND COVERED WITH GALVANIZED WIRE SCREEN. VENTS SHALL BE LOCATED TO PROVIDE CROSS VENTILATION.



BASEMENT HVAC PLAN

1/6"=1'



SHEET NUMBER

M02

SCALE @ 24" X 36"

DATE: 02-09-2024

DRAWN BY: AK

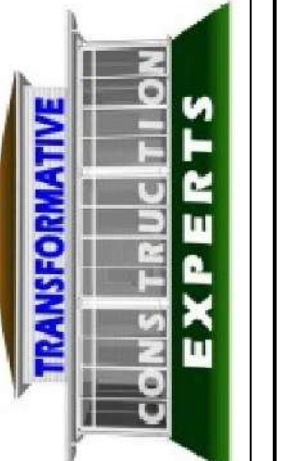
BASEMENT HVAC PLAN

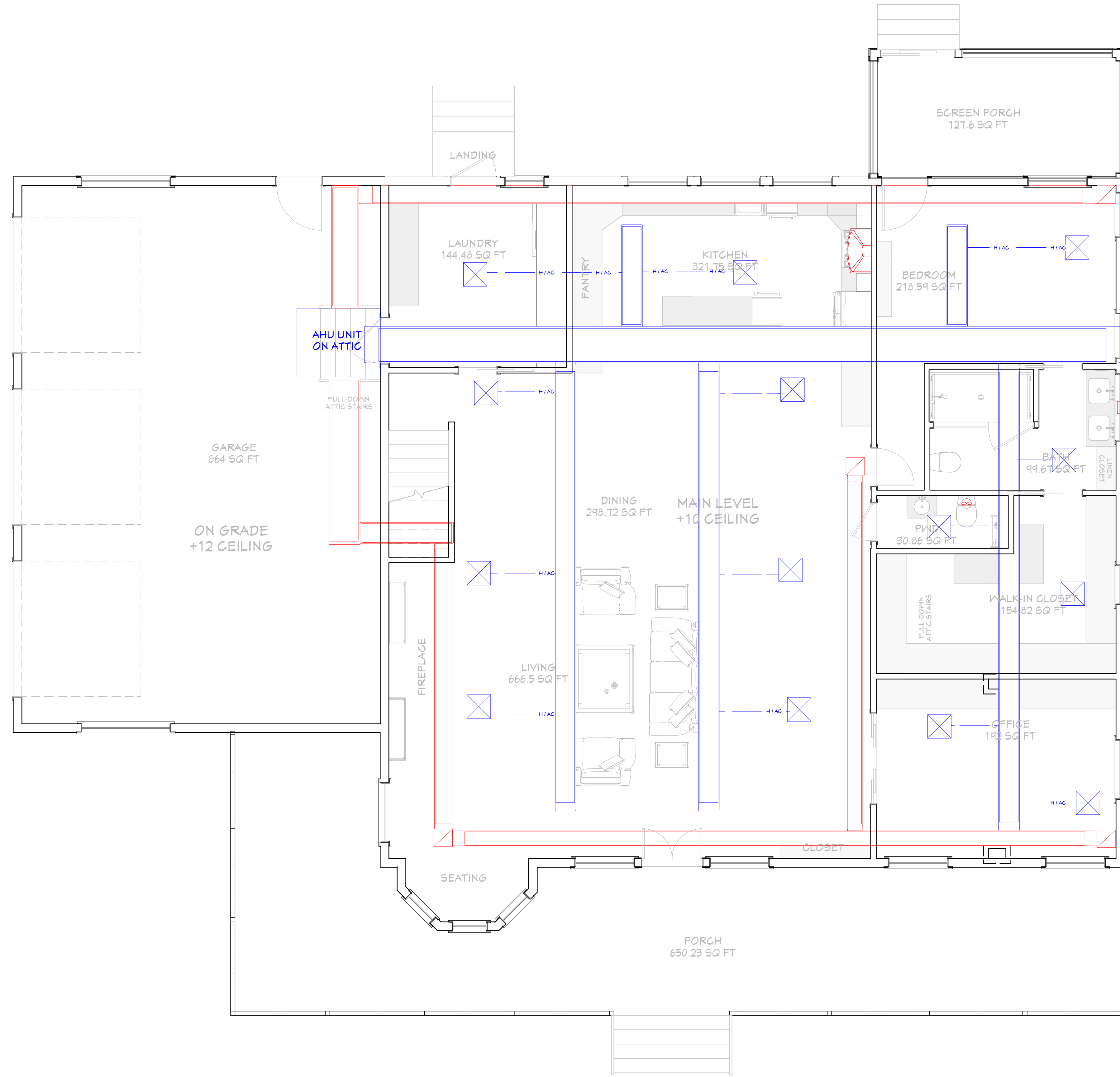
145 & 155 W HOOVER ST,
WESTFIELD, INDIANA 46074, USA

**SINGLE-FAMILY
RESIDENTIAL HOUSE**

TRANSFORMATIVE

© 2024
TransformativeConstruction@gmail.com
3975 Summit Circle NW
Acworth, GA 30101





FIRST FLOOR HVAC PLAN
1/4"=1'

SHEET NUMBER
M03

SCALE @ 24" X 36"
DATE: 02-09-2024
DRAWN BY: AK

FIRST FLOOR HVAC PLAN

145 & 155 W HOOVER ST,
WESTFIELD, INDIANA 46074, USA

SINGLE-FAMILY RESIDENTIAL HOUSE

TRANSFORMATIVE CONSTRUCTION EXPERTS

© 2024
TransformativeConstruction@gmail.com
3975 Summit Circle NW
Acworth, GA 30101