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Housing Families, Building Communities, Creating a Stronger Frederick

ADDENDUM #2

Date: January 5th, 2023

Project: The Carver Community Center Expansion Project at 207 Madison Street for the Housing Authority of the City of Frederick

To: All Bidders

The following Addenda items shall be added to, and made a part of, the Bid Documents for the above mentioned project:

CHANGES TO SPECIFICATIONS:

1. The Davis-Bacon & Related Acts wage determination for Building: MD20220042, 9/09/2022, Modification #13 has been recently updated to MD20220042, 12/23/2022, Modification #14. The majority of these rates have not changed, with the exception of "Terrazzo Worker/Setter". **Therefore, delete section 00900, pages 00900-1 through 00900-8 in its entirety, and replace with the attached section 00900(R), pages 00900-1(R) through 00900-9(R) (see Exhibit A).**
2. Drawing P000 "Plumbing: Symbols, General Notes and Schedules" has been revised to include a new fixture, Utility Sink, item P-8. **Therefore, delete drawing P000, issue date 12/5/2022 and replace with attached drawing P000, issue date 1/3/2023 (see Exhibit B).**
3. Drawing P101 "Plumbing: Partial Floor Plan" has been revised to include a Gas Riser Diagram. **Therefore, delete drawing P101, issue date 12/5/2022, and replace with attached drawing P101, issue date 1/3/2023 (see Exhibit C).**
4. The Bid Opening originally scheduled for Friday, January 13th, 2023, has been rescheduled for **THURSDAY, JANUARY 19TH, 2023 AT 2:00 P.M.**



CLARIFICATIONS TO SPECIFICATIONS:

1. The attached drawing **A7.0.2 “Finish Schedule”** was listed but missing, on the Cover Sheet G0.0.1 Drawing List and is **to be included in the Drawings** section of the Specification Manual (see Exhibit D).
2. Regarding the Civil drawings, C-1 through C-4: While several sheets are labeled as “sheet 2 of 4”, **the individual sheet titles (ORIENTATION, LAYOUT & UTILITY PLAN, GRADING PLAN, and LANDSCAPING PLAN) are accurate.**
3. A question was asked regarding the drawings, page M000, “General Notes: Controls”: **There will be a need for a Controls vendor. Therefore, include \$75K for the HVAC controls.**
4. The attached drawing, **P100 “Plumbing: Partial Floor Plan” issue date 1/3/2023** includes details for the Gas Line (see Exhibit E).
5. A question was asked regarding color finish for Windows: There are no aluminum windows; windows are white vinyl. **The aluminum storefront finish will be CLEAR ANODIZED.**
6. A question was asked regarding paving specifications: the attached drawing, **CSK-01, issue date 1/3/2023** includes Pavement Detail specifications (see Exhibit F).
7. All other parts of the Specification Manual, dated October 12th, 2022, and Addendum #1, dated December 23rd, 2022, shall remain unchanged unless changed within this or any future addenda.

SUBMITTALS FOR MATERIAL SUBSTITUTION:

1. AZEK will be a considered acceptable product substitution; an approved equal for PVC Trim. Supporting documentation, and their links, are attached & listed below (see Exhibit G):
 - [AZEK Trim – 3part specification](#)
 - [AZEK Trim – Colors & Samples Requests](#)
 - [AZEK Trim Testing Summary ESR-1074](#)
 - [AZEK Trim MSDS](#)

ADDITIONAL ATTACHMENTS:

1. “Helpful Checklist for Bidders in Preparation of Bid” (see Exhibit H) distributed at the Pre-Bid conference and explained by S. Frizzell that if you follow this checklist, you will be submitting all that is needed for proper bids. It is highly suggested that you use this tool in the bid process.

END OF ADDENDUM #2

"General Decision Number: MD20220042 12/23/2022

Superseded General Decision Number: MD20210042

State: Maryland

Construction Type: Building

County: Frederick County in Maryland.

BUILDING CONSTRUCTION PROJECTS (does not include single family homes or apartments up to and including 4 stories).

Note: Contracts subject to the Davis-Bacon Act are generally required to pay at least the applicable minimum wage rate required under Executive Order 14026 or Executive Order 13658. Please note that these Executive Orders apply to covered contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but do not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(2)-(60).

If the contract is entered into on or after January 30, 2022, or the contract is renewed or extended (e.g., an option is exercised) on or after January 30, 2022:	<ul style="list-style-type: none"> . Executive Order 14026 generally applies to the contract. . The contractor must pay all covered workers at least \$15.00 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in 2022.
If the contract was awarded on or between January 1, 2015 and January 29, 2022, and the contract is not renewed or extended on or after January 30, 2022:	<ul style="list-style-type: none"> . Executive Order 13658 generally applies to the contract. . The contractor must pay all covered workers at least \$11.25 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on that contract in 2022.

The applicable Executive Order minimum wage rate will be adjusted annually. If this contract is covered by one of the Executive Orders and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must still submit a conformance request.

Additional information on contractor requirements and worker protections under the Executive Orders is available at <https://www.dol.gov/agencies/whd/government-contracts>.

Modification Number	Publication Date
0	01/07/2022
1	01/14/2022

2	02/11/2022
3	02/18/2022
4	02/25/2022
5	03/11/2022
6	05/20/2022
7	06/03/2022
8	06/17/2022
9	07/08/2022
10	08/05/2022
11	08/12/2022
12	09/02/2022
13	09/09/2022
14	12/23/2022

ASBE0024-007 04/01/2021

Rates	Fringes
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ASBESTOS WORKER/HEAT & FROST INSULATOR.....	\$ 39.27	18.67+a
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Includes the application of all insulating materials, protective coverings, coatings and finishes to all types of mechanical systems

a. PAID HOLIDAYS: New Year's Day, Martin Luther King Day, Memorial Day, Independence Day, Labor Day, Veterans' Day, Thanksgiving Day, the day after Thanksgiving and Christmas Day provided the employee works the regular work day before and after the paid holiday.

ASBE0024-010 04/01/2021

Rates	Fringes
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ASBESTOS WORKER: HAZARDOUS MATERIAL HANDLER (Removal of hazardous material from ceilings, floors, mechanical systems, and walls).....	\$ 24.46	8.69+a
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a. PAID HOLIDAYS: New Year's Day, Martin Luther King Day, Memorial Day, Independence Day, Labor Day, Veterans' Day, Thanksgiving Day, the day after Thanksgiving and Christmas Day provided the employee works the regular work day before and after the paid holiday.

BRMD0001-006 05/01/2022

Rates	Fringes
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TILE SETTER.....	\$ 32.31	12.61
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BRMD0001-009 05/01/2022

Rates	Fringes
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TILE FINISHER.....	\$ 26.80	11.56
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* BRMD0001-010 05/01/2022

Rates	Fringes
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00900-2(R)

TERRAZZO WORKER/SETTER.....\$ 33.06 12.61

BRMD0001-011 05/01/2022

Rates Fringes

BRICKLAYER (Excluding
Pointing, Caulking and
Cleaning).....\$ 35.20 12.85

BRMD0001-012 05/01/2022

Rates Fringes

MASON - STONE.....\$ 42.06 19.75

CARP0197-005 05/01/2022

Rates Fringes

CARPENTER (Including
Acoustical Ceiling
Installation, Drywall
Hanging, Form Work and Metal
Stud Installation).....\$ 31.40 13.86

CARP0219-002 05/01/2022

Rates Fringes

MILLWRIGHT.....\$ 34.90 16.71

ELEC0024-012 05/29/2022

Rates Fringes

ELECTRICIAN (Including low
voltage wiring for and
installation of alarms; HVAC
controls).....\$ 42.75 5.25%+16.94

ELEC0024-013 05/29/2022

Rates Fringes

ELECTRICIAN (Communication
and Sound Equipment).....\$ 30.90 4.75%+14.45

PAID HOLIDAYS: New Year's Day, Memorial Day, Fourth of July,
Labor Day, Veterans Day, Thanksgiving Day, Day after
Thanksgiving, Christmas Day

ELEV0007-001 01/01/2022

Rates Fringes

ELEVATOR MECHANIC.....\$ 51.75 36.885+a+b

a. PAID HOLIDAYS: New Year's Day, Memorial Day, Independence
Day, Labor Day, Veterans' Day, Thanksgiving Day, the Friday
after Thanksgiving Day and Christmas Day.

b. VACATIONS: Employer contributes 8% of basic hourly rate
for 5 years of service or more; 6% of basic hourly rate for

00900-3(R)

6 months to 5 years of service as vacation pay credit.

ENGI0037-030 04/01/2021

	Rates	Fringes
POWER EQUIPMENT OPERATOR:		
Backhoe.....	\$ 31.73	13.15+a
Bulldozer.....	\$ 31.73	13.15+a

a. PAID HOLIDAYS: New Year's Day, Memorial Day, Independence Day, Labor Day, Veterans' Day, Thanksgiving Day and Christmas Day.

IRON0005-015 06/01/2021

	Rates	Fringes
IRONWORKER, ORNAMENTAL, REINFORCING AND STRUCTURAL.....	\$ 31.17	24.16

LABO0616-014 11/01/2021

	Rates	Fringes
LABORER: Mason Tender -		
Cement/Concrete.....	\$ 21.94	21.40
LABORER: Pipelayer.....	\$ 21.94	21.40

PAIN0051-019 06/01/2022

	Rates	Fringes
PAINTER		
Brush, Roller, Spray and Drywall Finisher/Taper.....	\$ 26.61	11.41
Industrial.....	\$ 33.05	13.22

PLAS0891-005 07/01/2021

	Rates	Fringes
PLASTERER (Including Fireproofing).....	\$ 30.53	7.93

PLAS0891-006 02/01/2020

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER...	\$ 28.82	11.68

PLUM0486-013 12/16/2021

	Rates	Fringes
PLUMBER.....	\$ 42.62	22.77

PLUM0486-019 12/16/2021

	Rates	Fringes
PIPEFITTER (HVAC Pipe and System Installation Only).....	\$ 42.62	22.77

00900-4(R)

ROOF0030-025 07/01/2022

South and West of Route No.270 from the intersection of the
Montgomery County Line to Route No.70, south and west of Route
No.70 to the intersection of Route No.70 and the Washington
County Line

	Rates	Fringes
ROOFER.....	\$ 32.26	14.71

ROOF0030-031 07/01/2022

East of Routes 70 and 270

	Rates	Fringes
ROOFER.....	\$ 28.45	13.71

SFMD0669-001 01/01/2022

	Rates	Fringes
SPRINKLER FITTER (Fire Sprinklers).....	\$ 36.95	24.56

SHEE0100-023 11/01/2021

	Rates	Fringes
SHEETMETAL WORKER, Including HVAC Duct Installation.....	\$ 44.37	21.33+a

a. PAID HOLIDAYS: New Year's Day, Martin Luther King's
Birthday, Memorial Day, Independence Day, Labor Day,
Veterans Day, Thanksgiving Day and Christmas Day

* SUMD2010-090 04/30/2010

	Rates	Fringes
GLAZIER.....	\$ 17.64	1.17
LABORER: Common or General.....	\$ 10.61 **	0.00
LABORER: Grade Checker.....	\$ 16.00	2.90
LABORER: Landscape.....	\$ 9.23 **	0.00
LABORER: Mason Tender - Brick...	\$ 13.00 **	0.00
LABORER: Mason Tender - Stone...	\$ 14.03 **	0.00
LABORER: Mortar Mixer.....	\$ 16.61	9.08
LABORER: Mason Tender (for Pointing, Caulking, Cleaning)....	\$ 13.25 **	0.00
OPERATOR: Asphalt Roller.....	\$ 21.35	5.38
OPERATOR: Bobcat/Skid Steer/Skid Loader.....	\$ 18.05	8.78

00900-5(R)

OPERATOR: Boom.....	\$ 21.44	8.29
OPERATOR: Crane.....	\$ 20.95	6.18
OPERATOR: Excavator.....	\$ 20.00	0.00
OPERATOR: Forklift.....	\$ 16.00	5.12
OPERATOR: Gradall.....	\$ 20.50	8.42
OPERATOR: Grader/Blade.....	\$ 14.50 **	5.18
OPERATOR: Loader.....	\$ 22.75	4.91
OPERATOR: Paver (Asphalt, Aggregate, and Concrete).....	\$ 17.47	6.36
OPERATOR: Roller excluding Asphalt.....	\$ 17.60	3.88
PIPEFITTER (Excluding HVAC Pipe and System Installation)....	\$ 28.96	11.35
POINTER, CAULKER, CLEANER, Includes pointing, caulking, cleaning of existing masonry, brick, stone and cement structures (restoration work); excludes pointing, caulking, cleaning of new or replacement masonry, brick, stone or cement.....	\$ 19.17	0.00
TRUCK DRIVER: Dump Truck.....	\$ 15.90	1.12
TRUCK DRIVER: Tractor Haul Truck.....	\$ 17.87	9.98

WELDERS - Receive rate prescribed for craft performing
operation to which welding is incidental.

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** Workers in this classification may be entitled to a higher
minimum wage under Executive Order 14026 (\$15.00) or 13658
(\$11.25). Please see the Note at the top of the wage
determination for more information.

Note: Executive Order (EO) 13706, Establishing Paid Sick Leave
for Federal Contractors applies to all contracts subject to the
Davis-Bacon Act for which the contract is awarded (and any
solicitation was issued) on or after January 1, 2017. If this
contract is covered by the EO, the contractor must provide
employees with 1 hour of paid sick leave for every 30 hours
they work, up to 56 hours of paid sick leave each year.
Employees must be permitted to use paid sick leave for their
own illness, injury or other health-related needs, including
preventive care; to assist a family member (or person who is
like family to the employee) who is ill, injured, or has other
health-related needs, including preventive care; or for reasons
resulting from, or to assist a family member (or person who is
like family to the employee) who is a victim of, domestic

violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO is available at <https://www.dol.gov/agencies/whd/government-contracts>.

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of ""identifiers"" that indicate whether the particular rate is a union rate (current union negotiated rate for local), a survey rate (weighted average rate) or a union average rate (weighted union average rate).

Union Rate Identifiers

A four letter classification abbreviation identifier enclosed in dotted lines beginning with characters other than ""SU"" or ""UAVG"" denotes that the union classification and rate were prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2014. PLUM is an abbreviation identifier of the union which prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. 07/01/2014 is the effective date of the most current negotiated rate, which in this example is July 1, 2014.

Union prevailing wage rates are updated to reflect all rate changes in the collective bargaining agreement (CBA) governing this classification and rate.

Survey Rate Identifiers

Classifications listed under the ""SU"" identifier indicate that no one rate prevailed for this classification in the survey and the published rate is derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As this weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SULA2012-007 5/13/2014. SU indicates the rates are survey rates based on a weighted average calculation of rates and are not majority rates. LA indicates the State of Louisiana. 2012 is the year of survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. 5/13/2014 indicates the survey completion date for the classifications and rates under that identifier.

Survey wage rates are not updated and remain in effect until a new survey is conducted.

Union Average Rate Identifiers

Classification(s) listed under the UAVG identifier indicate that no single majority rate prevailed for those classifications; however, 100% of the data reported for the classifications was union data. EXAMPLE: UAVG-OH-0010 08/29/2014. UAVG indicates that the rate is a weighted union average rate. OH indicates the state. The next number, 0010 in the example, is an internal number used in producing the wage determination. 08/29/2014 indicates the survey completion date for the classifications and rates under that identifier.

A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

- * an existing published wage determination
- * a survey underlying a wage determination
- * a Wage and Hour Division letter setting forth a position on a wage determination matter
- * a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour National Office because National Office has responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

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END OF GENERAL DECISIO"

GENERAL NOTES

1. SCOPE: PROVIDE AND INSTALL A COMPLETE PLUMBING AND FIRE SPRINKLER SYSTEMS AS INDICATED ON THE GENERAL NOTES AND DRAWINGS.
2. APPLICABLE CODES AND REGULATIONS: ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE FOLLOWING LATEST CODES AND REGULATIONS.

a. NATIONAL PLUMBING CODE

b. 2015 INTERNATIONAL FIRE CODE AND NFPA.

c. 2015 INTERNATIONAL BUILDING CODE

d. 2015 INTERNATIONAL ENERGY CONSERVATION CODE
3. GENERAL CONDITIONS: ANY ERRORS OR OMISSIONS APPEAR IN THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF SUCH ERRORS OR OMISSIONS IN WRITING. IF THE CONTRACTOR FAILS TO GIVE SUCH NOTICE, THE CONTRACTOR WILL BE RESPONSIBLE FOR THE RESULTS OF SUCH ERRORS AND OMISSION AND FOR THE COST OF RECTIFYING THE SAME.
4. PERMITS, LICENSES AND FEES: THIS CONTRACTOR SHALL PAY ALL REQUIRED TRADE PERMIT FEES AND SHALL OBTAIN ALL NECESSARY TRADE PERMITS AND LICENSES FOR INSTALLATION OF THE WORK, COMPLETE.
5. VISIT TO SITE: THE CONTRACTOR SHALL VISIT THE SITE AND SHALL FAMILIARIZE HIMSELF WITH THE ALL CONDITIONS, EQUIPMENT, FINISHES, ETC., PRIOR TO THE START OF WORK. IF ANY DISCREPANCY IS DETECTED, IT SHOULD BE BROUGHT TO THE ARCHITECT'S ATTENTION WITH RECOMMENDATIONS FOR PROPER CORRECTIONS FOR THE ARCHITECT'S APPROVAL.
6. UTILITY SERVICES: PRIOR TO THE START OF WORK, CONTRACTOR SHALL COORDINATE ALL WATER SEWER UTILITY SERVICES WITH CIVIL DWGS AND UTILITY COMPANIES. ANY DISCREPANCY IS DETECTED, IT SHOULD BE BROUGHT TO THE ARCHITECT/ENGINEER'S ATTENTION WITH RECOMMENDATIONS FOR PROPER CORRECTIONS FOR THE ARCHITECT/ENGINEER'S APPROVAL.
7. CUTTING AND PATCHING: WHERE IT IS NECESSARY TO CUT FLOORS, WALLS OR CEILINGS FOR THE INSTALLATION OF ANY PLUMBING WORK, SUCH CUTTING SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR. ALL AFFECTED AREAS SHALL BE PATCHED BY THE GENERAL CONTRACTOR TO MATCH THE ORIGINAL CONDITION AND APPEARANCE. BEFORE ANY CUTTING AND PATCHING TAKES PLACE, THE CONTRACTOR SHALL OBTAIN THE APPROVAL OF THE ARCHITECT AND STRUCTURAL ENGINEER.
8. INSTALLATION: INSTALLATION OF PLUMBING FIXTURES, PIPING, VALVES, ETC. SHALL BE DONE IN NEAT AND WORKMANLIKE MANNER, AND SHALL CONFORM TO THE LATEST TRADE PRACTICES.
9. DRAWINGS: THE PLUMBING DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED IN THE CONTRACT. THE ARCHITECTURAL AND ALL OTHER INVOLVED DISCIPLINES' DRAWINGS SHALL BE EXAMINED FOR EXACT LOCATION OF FIXTURES AND EQUIPMENT. THE CONTRACTOR SHALL FOLLOW DRAWINGS IN LAYING OUT WORK AND COORDINATE WITH ALL TRADES TO VERIFY SPACES IN WHICH WORK WILL BE INSTALLED.
10. WHERE THE WORK OF THE CONTRACTOR WILL BE INSTALLED IN CLOSE PROXIMITY OR INTERFERE WITH WORK OF OTHER TRADES, THE CONTRACTOR SHALL ASSIST IN WORKING OUT SPACE CONDITIONS TO MAKE A SATISFACTORY ADJUSTMENT. IF THE CONTRACTOR INSTALLED THIS WORK BEFORE COORDINATING, CAUSING INTERFERENCE WITH WORK OF OTHER TRADES, HE SHALL MAKE THE NECESSARY CHANGES IN THE WORK TO CORRECT THE CONDITION WITHOUT EXTRA CHARGE.
11. THE CONTRACTOR SHALL GIVE FULL COOPERATION TO OTHER TRADES AND ALLOW THE WORK OF ALL TRADES TO BE INSTALLED SATISFACTORILY AND WITH THE LEAST POSSIBLE INTERFERENCE OR DELAY.
12. CLEANING: ALL MATERIALS NOT TO BE USED SHALL BE REMOVED FROM SITE AND ALL DEBRIS SHALL BE CLEANED AND THE AREA OF WORK SHALL BE LEFT IN CLEAN CONDITION.
13. PLUMBING SYSTEMS: ALL SANITARY WASTE PIPING SHALL BE RUN AT 1/4" PER FT. SLOPE UNLESS OTHERWISE INDICATED.

a. ALL PIPING SHALL BE INSTALLED ABOVE CEILING OR IN A CONCEALED SPACE, UNLESS OTHERWISE INDICATED.

b. PROVIDE TRAP PRIMER VALVE FOR ALL FLOOR DRAINS. PRIMER VALVE SHALL BE CONNECTED TO THE NEAREST COLD WATER LINE SERVING A LAVATORY OR A SINK. 1/2" COPPER PIPING SHALL BE RUN FROM THE PRIMER VALVE TO THE DRAINS' TRAPS.
14. PLUMBING FIXTURE: PROVIDE AND INSTALL ALL WASTE AND SUPPLY PIPES TO ALL THE FIXTURES AND EQUIPMENT AS INDICATED. ALL EXPOSED TRIM SHALL BE CHROME-PLATED ALL PENETRATION THROUGH WALLS AND EXPOSED TO VIEW SHALL BE PROVIDED WITH CHROME-PLATED ESCUTCHEONS.
15. PIPING: ALL PIPING SHALL BE NEW AND SHALL BE CUT TO EXACT LENGTHS TO SUIT THE FIELD CONDITIONS. CONNECTION OF DISSIMILAR PIPING MATERIALS SHALL BE MADE BY MEANS OF DIELECTRIC FITTINGS. DO NOT INSTALL ANY PVC PIPING.

a. WATER PIPING SHALL BE CPVC WATER PIPING, WITH CPVC FITTINGS. PROVIDE INSULATION ONLY FOR MAIN HORIZONTAL WATER DISTRIBUTION PIPING.

b. WASTE/VENT AND STORM WATER PIPING: STANDARD CAST IRON, NO HUB PIPING WITH CAST IRON FITTING. COPPER AND PVC PIPING AND FITTINGS ARE ACCEPTABLE. ALL VENT THRU ROOFS SHALL BE PROVIDED WITH MESH SCREEN AT THE TERMINATION POINT.

c. PROVIDE 1/2 INCH THICK FIBERGLASS PIPE INSULATION FOR HOT AND COLD WATER PIPING. HOT WATER PIPING SHALL BE INSULATED TO R=3.

d. PROVIDE PIPE SUPPORTS AND HANGERS FOR ALL PIPES AND INSTALL SLEEVES FOR PIPES PENETRATING THROUGH WALLS.

e. VALVES IN WATER PIPING SHALL BE 125 LB. CAST BRONZE, SCREWED PATTERN VALVES WITH ADAPTERS FOR USE WITH COPPER TUBE. GASKETS SHALL BE 1/16 INCH THICK RED RUBBER TYPE.
16. GAS PIPING: GAS PIPING SHALL BE ASTM 53, SCHEDULE 40 BLACK STEEL WITH MALLEABLE IRON PIPE FITTINGS, ANSI B16.3, 150 CLASS STANDARD PATTERN, FOR THREADED JOINTS.
17. PROVIDE PLUG VALVE FOR GAS SYSTEM.
18. FIRE PROTECTION: SPRINKLER THE ENTIRE BUILDING AREAS WITH WET PIPE HYDRAULICALLY DESIGNED SPRINKLER SYSTEM, IN ACCORDANCE WITH NFPA 13R, AND ALL LOCAL CODES.

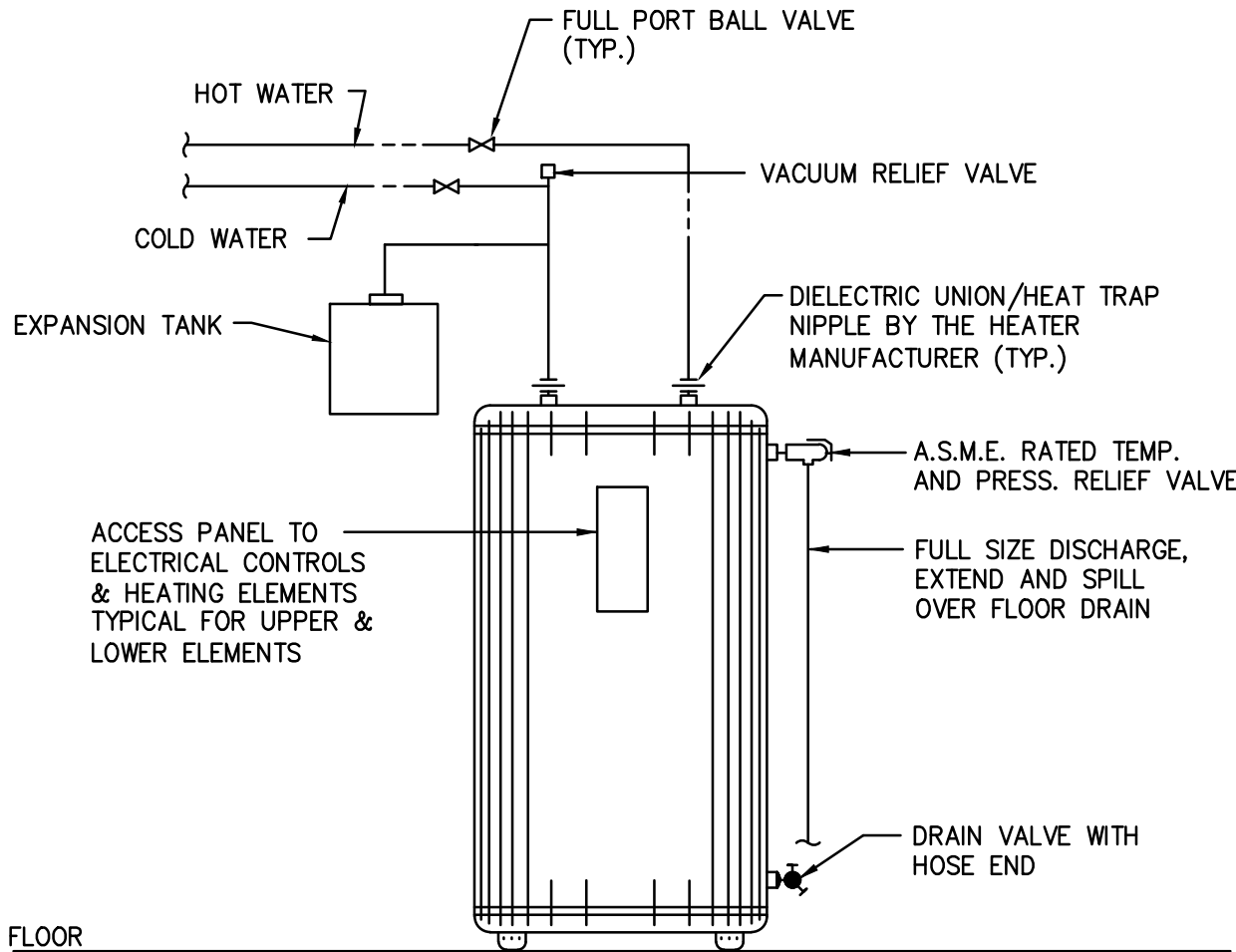
a. CONTRACTOR SHALL COORDINATE SPRINKLERS WITH LIGHTING, DUCTWORK, PIPING, STRUCTURAL ELEMENTS AND CEILING LAYOUT, FOR PROPER SPRINKLER COVERAGE IN ACCORDANCE WITH NFPA 13R AND ALL LOCAL CODES.

b. CONTRACTOR SHALL SUBMIT HYDRAULIC CALCULATIONS AND ALL RELATED SHOP DRAWINGS TO DCR/FIRE PREVENTION DIVISION FOR REVIEW AND APPROVAL, PRIOR TO INSTALLATION.

c. LOCATION OF ALL SPRINKLER HEADS SHALL BE COORDINATED WITH ARCHITECT.

d. SPRINKLER CONTRACTOR SHALL PERFORM A WATER FLOW TEST AND SHALL PREPARE HYDRAULIC CALCULATIONS BASED ON THE RESULTS OF THE FLOW TEST.

e. IT IS THE RESPONSIBILITY OF THE SPRINKLER CONTRACTOR TO LAYOUT THE SPRINKLER HEAD LOCATIONS TO PROVIDE CODE COMPLYING COVERAGE FOR THE ENTIRE BUILDING. THE SPRINKLER CONTRACTOR MUST FIELD VERIFY LOCATION OF ALL THE EXISTING BUILDING ELEMENTS TO MAINTAIN THE CEILING HEIGHT DUE TO NEW CONSTRUCTION (NO PIPING LAYOUT IS SHOWN ON CONTRACT DRAWINGS), MODIFY PIPING DROPS AND SWINGS, ETC. SPRINKLER HEADS SHALL BE COORDINATED WITH STRUCTURAL ELEMENTS, CEILING ELEVATIONS LIGHT FIXTURES, DUCTWORK, PIPING AND CEILING DIFFUSERS, THE SPRINKLER CONTRACTOR SHALL PROVIDE COORDINATED INSTALLATION DRAWINGS FOR EXISTING AND NEW PIPING, RELOCATE EXISTING PIPING AS REQUIRED. PREPARE CALCULATIONS AND PIPE SIZING BASED ON THE NEW LAYOUT FOR APPROVAL BY THE FIRE MARSHAL. DRAWINGS ARE TO BE SUBMITTED TO THE ARCHITECT FOR COORDINATION OF THE SPRINKLER HEAD LOCATIONS.
19. TEST OF PLUMBING SYSTEMS: ALL SYSTEMS SHALL BE HYDROSTATICALLY TESTED UNDER A PRESSURE NOT LESS THAN 175 LBS. PER SQUARE INCH. DRAINAGE PIPING SHALL BE TESTED WITH 10" OF WATER FOR AT LEAST 15 MINUTES.
20. STERILIZATION: BEFORE ACCEPTANCE FOR DOMESTIC OPERATION EACH UNIT OF COMPLETE WATER DISTRIBUTION SYSTEM SHALL BE DISINFECTED AND STERILIZED.



STORAGE TYPE ELECTRIC WATER HEATER NO SCALE

SYMBOLS LIST

SYMBOL	ABB.	DESCRIPTION
	SAN., W.	SANITARY OR WASTE PIPING
	V	VENT PIPING
	C.W.	COLD WATER PIPING
	H.W.	HOT WATER PIPING
		SHUT OFF VALVE
		PIPE UP, PIPE DOWN
		TEMPERING VALVE, ASSE 1070 THERMOSTATIC MIXING VALVE
	V.T.R.	VENT THRU ROOF, TERMINATE VENT MIN. 12" ABOVE FINISH ROOF

ABBREVIATIONS:			
AFF	ABOVE FINISHED FLOOR	H.C.	HANDICAP
CLG	CEILING	HHW	HOT WATER HEATER
CSST	CORRUGATED STAINLESS STEEL TUBING	INV.	INVERT
DN.	DOWN	MTD.	MOUNTED
ELEV.	ELEVATION	S.S.	SANITARY SOIL STACK
EHD	EQUIVALENT DIAMETER	V.S.	SANITARY VENT STACK
FLR	FLOOR		
F.T.	FLUSH TANK		

PLUMBING FIXTURE CONNECTION SCHEDULE AND SPECIFICATION

FIXTURE NO.	FIXTURE	WASTE	VENT	CW	HW	DESCRIPTION	MANUFACTURER	MODEL NO.	FUACET MFG/MODEL
P-1	WATER CLOSET	4"	2"	1"	-	FLR. MTD., FLUSH TANK, ELONGATED RIM, 1.28 G/F, SEAT WITH COVER.	AMERICAN STANDARD	215CA.104.020	-
P-1A	WATER CLOSET (ADA)	4"	2"	1"	-	H.C., FLR. MTD., FLUSH TANK, ELONGATED RIM, 1.28 G/F, SEAT WITH COVER.	AMERICAN STANDARD	215AA.104.020	-
P-1B	WATER CLOSET (BABY)	4"	2"	1"	-	LOW, BABY, FLR. MTD., FLUSH TANK, ELONGATED RIM, 1.28 G/F, SEAT WITH COVER.	AMERICAN STANDARD BABY DEVARO	2315.228	-
P-2	LAVATORY	1-1/2"	1-1/2"	1/2"	1/2"	VANITY TYPE, WITH SEE ARCHITECTURAL SPECS, 0.5 GPM FAUCET.	AMERICAN STANDARD	-	AMERICAN STANDARD 7075V05.002.002
P-2A	LAVATORY (ADA)	1-1/2"	1-1/2"	1/2"	1/2"	H.C., WALL MTD, WITH CONCEALED ARMS, 0.5 GPM FAUCET., PROVIDE INSULATION FOR SUPPLIES AND DRAIN LINES.	AMERICAN STANDARD	0356.421	AMERICAN STANDARD 7075V05.002.002
P-2B	LAVATORY (ADA)	1-1/2"	1-1/2"	1/2"	1/2"	H.C., WALL MTD, WITH CONCEALED ARMS, 0.5 GPM FAUCET., PROVIDE INSULATION FOR SUPPLIES AND DRAIN LINES. RIM ELEVATION @ 24" A.F.F.	AMERICAN STANDARD	0356.421	AMERICAN STANDARD 7075V05.002.002
P-2C	LAVATORY (ADA)	1-1/2"	1-1/2"	1/2"	1/2"	H.C., WALL MTD, WITH CONCEALED ARMS, 0.5 GPM FAUCET., PROVIDE INSULATION FOR SUPPLIES AND DRAIN LINES. RIM ELEVATION @ 34" A.F.F.	AMERICAN STANDARD	0356.421	AMERICAN STANDARD 7075V05.002.002
P-3	URINAL	2"	1-1/2"	3/4"	-	WALL MTD., VITREOUS CHINA, FLUSHING RIM, 0.5 G/F,	AMERICAN STANDARD AMERICAN STANDARD	6590.001.020 0255	SLOAN ROYAL 186
P-3A	URINAL	2"	1-1/2"	3/4"	-	WALL MTD., VITREOUS CHINA, FLUSHING RIM, 0.5 G/F, MOUNTED TO MEET ADA HEIGHT	AMERICAN STANDARD AMERICAN STANDARD	6590.001.020 0255	SLOAN ROYAL 186
P-4	SINK (ADA)	1-1/2"	1-1/2"	1/2"	1/2"	H.C., STAINLESS STEEL, SELF-RIM, W/ DEPRESSED OFFSET DRAIN OPENING FOR, 1/2 HP DISPOSER	MOEN	GS201974RQ	AMERICAN STANDARD, 7074.000.002, 1.5 GPM FAUCET, W/BUILT IN AERATOR.
P-5	DISHWASHER	*	-	-	1/2"	* CONNECT DRAIN TO SINK WITH VACUUM BREAKER, SEE ARCHITECTURAL SPECS			
P-6	ELECTRIC WATER COOLER	1-1/2"	1-1/2"	1/2"	1/2"	HANDICAP, ALL STAINLESS STEEL BODY, 2-STATIONS, HIGH LOW WATER COOLER.	ELKAY	EZSTL8C	
P-7	SERVICE SINK	3"	1-1/2"	1/2"	1/2"	ANAMELED CAST IRON, WALL MOUNTED, WITH RIM GAURD AND 3" "P" TRAP	AMERICAN STANDARDS		
P-8	UTILITY SINK	3"	1-1/2"	1/2"	1/2"	STAINLESS STEEL, SELF-RIM, W/ DRAIN BOARD	DAYTON	GE12521	FAUCET MOEN, GS201974RQ

ELECTRICAL WATER HEATER SCHEDULE

NO.	GALLONS STORAGE	RECOVERY GAL/H	WATER TEMP. IN	WATER TEMP. OUT	ELECTRIC				STATE MODEL #	SHIPPING WEIGHT	DIMENSIONS IN INCHES HEIGHT/DIAMETER	REMARKS
					STANDARD KW	MAX. KW	VOLT	PHASE				
HHW-1, HHW-2	30	15	40	110	4.5	6.0	208	1	PCE 30 20LSA	100	30-7/8, 21-3/4	

MINER FEINSTEIN ARCHITECTS

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Kerry Font Architecture
836 Harbor View Terrace
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704.264.7660

STRUCTURAL ENGINEER:
Stead-fast LLC
564 W University Pkwy
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Frederick, Maryland 21701
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Architect's Project Number:	2238
DD SET	10-26-22
BID SET	10-26-22

ADDENDUM #2 - 1.3.2023

CARVER COMMUNITY CENTER EXPANSION

207 Lee Alley
Frederick, Maryland 21701

OWNER:
209 Madison Street
Frederick MD 21701
301.662.8173

SYMBOLS, GENERAL NOTES, DETAIL AND SCHEDULERS

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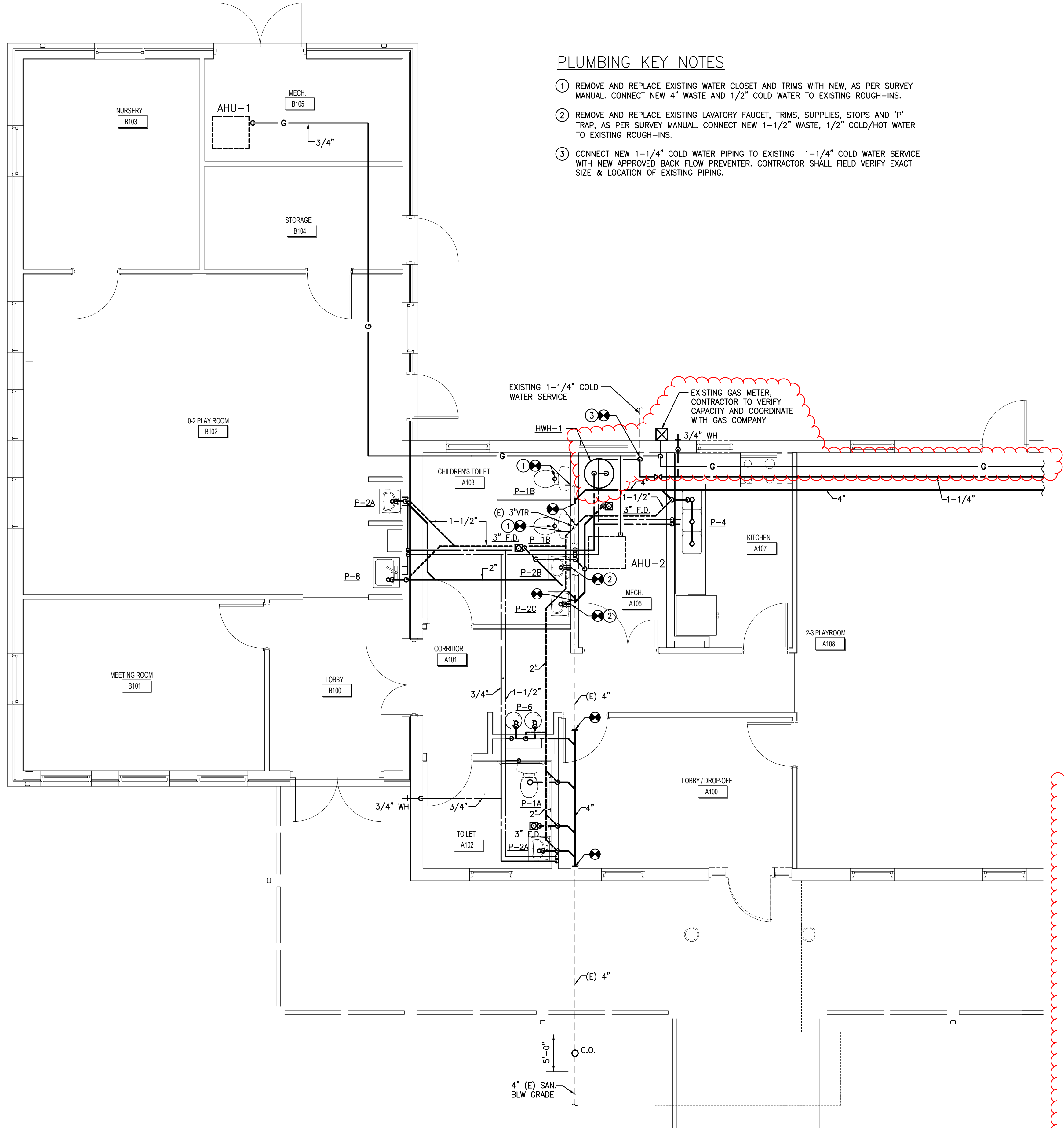
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PARTIAL FLOOR PLAN

P101

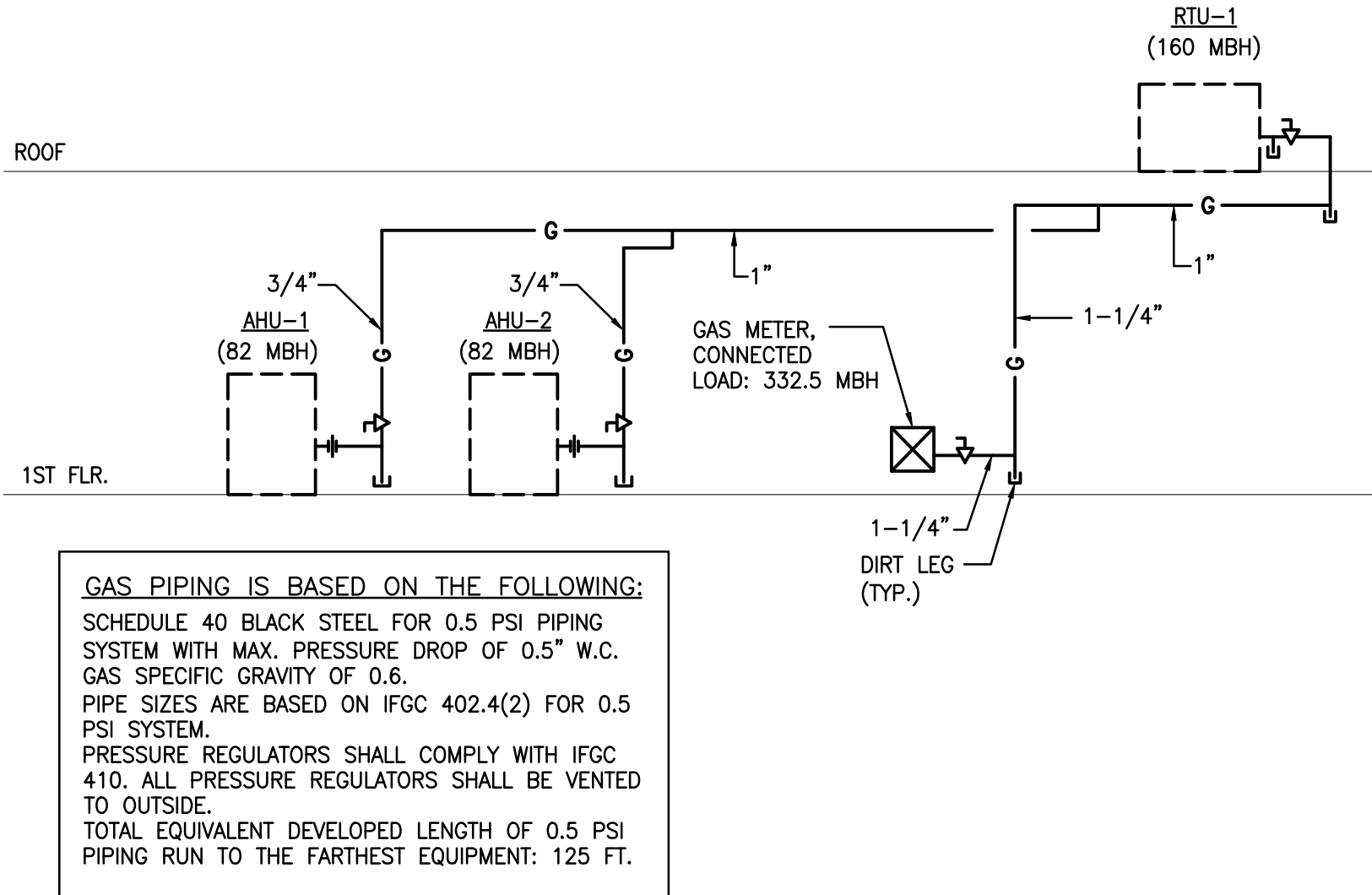
PLUMBING KEY NOTES

- 1 REMOVE AND REPLACE EXISTING WATER CLOSET AND TRIMS WITH NEW, AS PER SURVEY MANUAL. CONNECT NEW 4" WASTE AND 1/2" COLD WATER TO EXISTING ROUGH-INS.
- 2 REMOVE AND REPLACE EXISTING LAVATORY FAUCET, TRIMS, SUPPLIES, STOPS AND 'P' TRAP, AS PER SURVEY MANUAL. CONNECT NEW 1-1/2" WASTE, 1/2" COLD/HOT WATER TO EXISTING ROUGH-INS.
- 3 CONNECT NEW 1-1/4" COLD WATER PIPING TO EXISTING 1-1/4" COLD WATER SERVICE WITH NEW APPROVED BACK FLOW PREVENTER. CONTRACTOR SHALL FIELD VERIFY EXACT SIZE & LOCATION OF EXISTING PIPING.



PARTIAL FLOOR PLAN

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



GAS RISER DIAGRAM

NO SCALE

GAS PIPING IS BASED ON THE FOLLOWING:
SCHEDULE 40 BLACK STEEL FOR 0.5 PSI PIPING
SYSTEM WITH MAX. PRESSURE DROP OF 0.5" W.C.
GAS SPECIFIC GRAVITY OF 0.6
PIPE SIZES ARE BASED ON IFGC 402.4(2) FOR 0.5
PSI SYSTEM.
PRESSURE REGULATORS SHALL COMPLY WITH IFGC
410. ALL PRESSURE REGULATORS SHALL BE VENTED
TO OUTSIDE.
TOTAL EQUIVALENT DEVELOPED LENGTH OF 0.5 PSI
PIPING RUN TO THE FARTHEST EQUIPMENT: 125 FT.

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302.644.2121

Architect's Project Number: 2238

INTERIOR FINISH SCHEDULE																											
		FLOORS					BASE				WALLS/TRIM/DOORS								SURFACES					CEILING			
		LVT-1	LVT-2	VCT-1	CT-1	SLEARED CONC.	B-1 (CT CERAMIC TILE)	B-2 (PAINTED WOOD BASE)	B-3 (SHOE MOLD BASE)	B-4 (VINYL BASE)	CT-2	CT-3	CT-4	P-1 (FIELD)	P-2 (ACCENT)	P-3 (ACCENT COLOR)	P-4 (FIELD IN SEMI)	P-5 (ACCENT/ DOORS IN SEMI)	P-6 (DOOR, TRIM AND CEILING)	CAB-1	SS-1	WC-1	WC-2	WC-3	ACT	PTD. GYP. BD.	
ROOM #	ROOM NAME	1	2	3	4	5	1	2	3	4	1	2	3	4	5	6	7	8	9	1	2	3	4	5	1	2	
A100	LOBBY/DROP OFF	1						2	3					4					9			3			1		
A101	CORRIDOR	1						2	3					4					9						1		
A102	TOILET				4			1			1						7	8	9						1		
A103	CHILDRENS TOILET				4		5	1				2						8	9						1		
A104	MECH.									4				4					9							2	
A105	KITCHEN			3					2	3				3					9	1	2				1		
A106	2-3 PLAYROOM	1							2	3						6		8	9				4		1		
B100	LOBBY	1							2	3					4				9			3			1		
B101	MEETING ROOM	1							2	3					4	5			9						1		
B102	0-2 PLAYROOM	1							2	3						6		8	9	1	2		4		1		
B103	NURSEY	1							2	3					4		6		8	9					1		
B104	STORAGE			3					2	3					4				9							2	
B105	MECH.					5					4				4				9							2	
C100	LOBBY	1							2	3					4	5			9						1		
C101	OFFICE	1							2	3					4	5			8	9					1		
C102	OFFICE	1							2	3					4	5			8	9					1		
C103	OFFICE	1							2	3					4	5			8	9					1		
C104	COMPUTER CLASSROOM	1							2	3					4				8	9					1		
C105	FLEX CLASSROOM	1	2						2	3					4				8	9					1	2	
C106	CUST. CL			3							4				4					9					1	2	
C107	WOMENS				4			1										7	8	9					1		
C108	MENS					4		1			1							7	8	9					1		
C109	MECH.					5					4	1			4					9					2		
C110	STORAGE			3					2	3					4					9						2	
C111	KITCHEN			3					2	3			3		4						1	2			1		
C112	COMMUNITY ROOM		2						2	3				4	5				9				5		1	2	

INTERIOR FINISH LEGEND						
	DESIGNATION	TYPE	MANUFACTURER/ STYLE	DESCRIPTION	COLOR	NOTES
WALLBASE	B-1	CERAMIC BASE	COORDINATE BASE WITH SELECTED TILE	4" x 12"		LOBBY
	B-2	PAINTED WOOD	COORDINATE BASE WITH CORRESPONDING TRIM PAINT	4 INCH UNMOLDED		NOMINAL 4" WOOD BASE TO MATCH EXISTING
	B-3	SHOE MOLD BASE	COORDINATE BASE WITH CORRESPONDING TRIM PAINT			1/4 ROUND SHOE MOLD
	B-4	VINYL BASE		4"H x 1/8" GAUGE		LOCATED IN AREAS WITH VCT OR RUBBER FLOORING
TILE	CT - 1	CERAMIC TILE	DALTILE, VOLUME 1.0	6" x 6" STACKED	TBD	RESTROOM FLOORING; MAPEI GROUT; TBD
	CT - 2	CERAMIC TILE	DALTILE, COLOR WHEEL CLASSIC	3" x 6"	TBD	RESTROOM WALL COLOR; MAPEI GROUT; TBD
	CT - 3	CERAMIC TILE	DALTILE, COLOR WHEEL CLASSIC	3" x 6"	TBD	RESTROOM WALL ACCENT COLOR; MAPEI GROUT; TBD
	CT - 4	CERAMIC TILE	DALTILE, REVALIA REMIX	TBD	TBD	KITCHEN BACKSPLASH; MAPE GROUT; TBD
FLOORING	LVT-1	LUXURY VINYL TILE	COLBALT SURFACES, PETROUS	7" x 48" 5MM 20MIL	TBD	LOBBY, CORRIDOR, PLAYROOMS, MEETING ROOM, NURSEY, OFFICE, COMPUTER CLASSROOM, FLEX CLASSROOM, AND COMMUNITY ROOM
	LVT-2	LUXURY VINYL TILE	COLBALT SURFACES, PETROUS	7" x 48" 5MM 20MIL	TBD	COMMUNITY ROOM AND FLEX CLASSROOM ACCENT COLOR
	VCT - 1	VINYL COMPOSITE TILE	ARMSTRONG, STANDARD EXCELRON IMPERIAL TEXTURE	12" x 12"	TBD	KITCHEN, STORAGE, AND CUST CLOSET
PAINT	P-1	PAIN	SHERWIN WILLIAMS, PROMAR 200	FLAT	TBD	WALL FIELD COLOR
	P-2	PAIN	SHERWIN WILLIAMS, PROMAR 200	FLAT	TBD	ACCENT COLOR
	P-3	PAIN	SHERWIN WILLIAMS, PROMAR 200	SEMI-GLOSS	TBD	ACCENT/ DOOR COLOR
	P-4	PAIN	SHERWIN WILLIAMS, PROMAR 200	SEMI-GLOSS	TBD	WALL FIELD COLOR
	P-5	PAIN	SHERWIN WILLIAMS, PROMAR 200	SEMI-GLOSS	TBD	ACCENT COLOR
	P-6	PAIN	SHERWIN WILLIAMS, PROMAR 200	SEMI-GLOSS	TBD	DOOR, TRIM AND CEILING COLOR
SURFACES	CAB - 1	CABINTRY	SMART CABINTRY	SQUIRE	MAPLE, TBD	KITCHEN CABINETS
	SS-1	SOLID SURFACE	MSI, QUARTZ	POLISHED 3CM		KITCHEN
	WC-1	WALLCOVERING	WOLF GORDON	TYPE VINYL II	TBD	LOBBIES
	WC-2	WALLCOVERING	WOLF GORDON	TYPE VINYL II	TBD	PLAYROOM
	WC-3	WALLCOVERING	WOLF GORDON	TYPE VINYL II	TBD	COMMUNITY ROOM

CARVER
COMMUNITY CENTER
EXPANSION

207 Madison Street
Frederick, Maryland 21701

OWNER:



Housing
Authority of the
City of
Frederick

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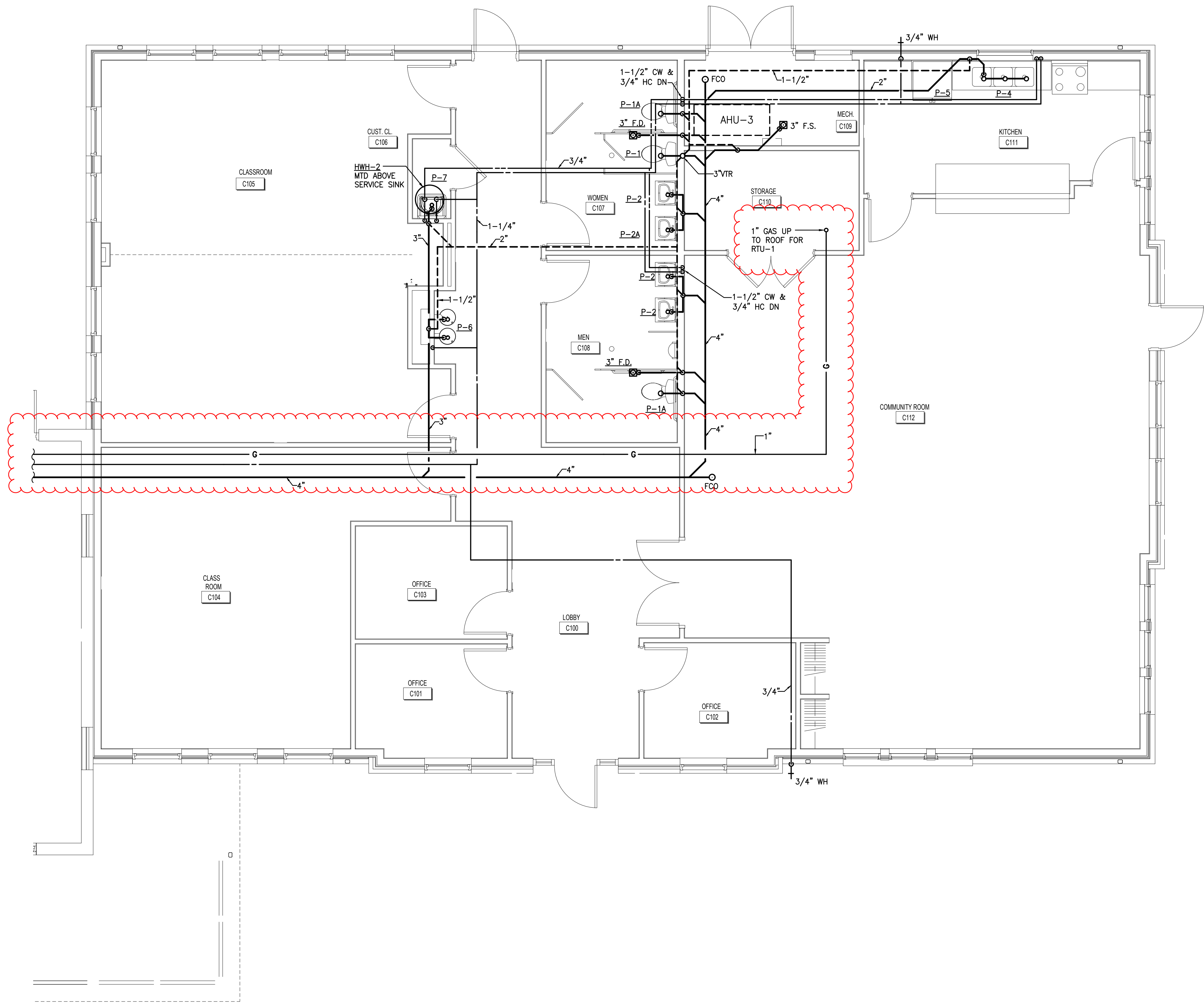
CARVER
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PARTIAL FLOOR PLAN

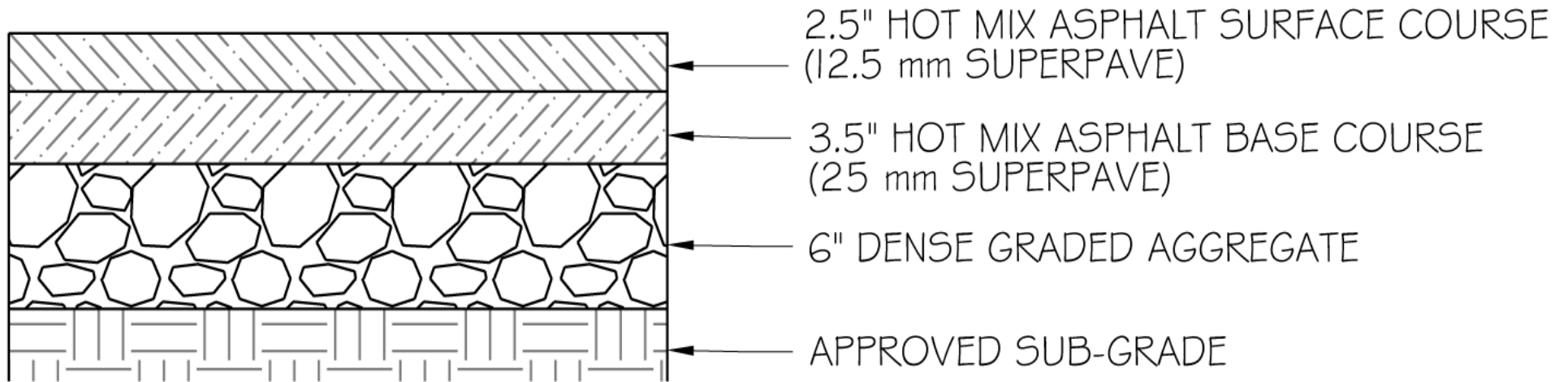
P100



PARTIAL FLOOR PLAN

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

EXHIBIT F



PAVEMENT DETAIL

NTS



CARVER COMMUNITY BUILDING EXPANSION
207 MADISON STREET, FREDERICK, MD 21701

Paving Section

CSK-01

1.3.2023

EXHIBIT G

(20 pages)

SUBSTITUTION REQUEST

(During the Bidding/Negotiating Stage)

Project:	<u>Carver Community Center Expansion Project</u>	Substitution Request Number:	<u>Spec-0001422</u>
	<u>Frederick, MD</u>	From:	<u>Dave Long, AZEK</u>
To:	<u>info@mfarchitects.net, Miner Feinstein Architects, LLC</u>	Date:	<u>12/29/2022</u>
	<u>info@mfarchitects.net,</u>	A/E Project Number:	<u></u>
Re:	<u>Fiber Cement Trim</u>	Contract For:	<u>Frederick Housing Authority</u>

Specification Title:	<u>Fiber Cement Trim</u>	Description:	<u>Fiber Cement Trim</u>
Section:	<u>A5.0.1, A3.0.0</u>	Page:	<u>A501</u>
		Article/Paragraph:	<u>A5.0.1, A3.0.0</u>

Proposed Substitution:	<u>AZEK Trim</u>		
Manufacturer:	<u>AZEK Building Products</u>	Address:	<u>1330 W. Fulton Market Chicago, IL 60607</u>
		Phone:	<u>1(877) 275-2935</u>
Trade Name:	<u>AZEK Trim</u>	Model No. :	<u>N/A</u>

Attached data includes product description, specifications, drawings, photographs, and performance and test data adequate for evaluation of the request; applicable portions of the data are clearly identified.

Attached data also includes a description of changes to the Contract Documents that the proposed substitution will require for its proper installation.

The Undersigned certifies:

- Proposed substitution has been fully investigated and determined to be equal or superior in all respects to specified product.
- Same warranty will be furnished for proposed substitution as for specified product.
- Same maintenance service and source of replacement parts, as applicable, is available.
- Proposed substitution will have no adverse effect on other trades and will not affect or delay progress schedule.
- Proposed substitution does not affect dimensions and functional clearances.

Submitted by:	<u>Dave Long</u>
Signed by:	<u>Dave Long</u>
Firm:	<u>AZEK</u>
Address:	<u>1330 W Fulton Street</u>
	<u>Chicago, IL 60007</u>
Telephone:	<u>, dave.long@azekco.com</u>

A/E' s REVIEW AND ACTION

- ☐ Substitution approved - Make submittals in accordance with Specification Substitution Procedures.
- ☐ Substitution approved as noted - Make submittals in accordance with Specification Substitution Procedures.
- ☐ Substitution rejected - Use specified materials.
- ☐ Substitution Request received too late - Use specified materials.

Signed by:	Date:
------------	-------

Supporting Data Attached:	<input type="checkbox"/> Drawings	<input type="checkbox"/> Product Data	<input type="checkbox"/> Samples	<input type="checkbox"/> Tests	<input type="checkbox"/> Reports	<input type="checkbox"/> _____
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SECTION 06 65 00 – Simulated Wood Trim

Plastic Simulated Wood Trim

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Cellular PVC trim boards for:
 - 1. Corner boards
 - 2. Soffits
 - 3. Fascia
 - 4. Battens
 - 5. Door pilasters
 - 6. Frieze boards
 - 7. Rake boards
 - 8. Architectural millwork
 - 9. Door trim
 - 10. Window trim
 - 11. Wainscoting
 - 12. Pergolas
 - 13. Cupolas
 - 14. Porch Ceilings
 - 15. Arbors
 - 16. Fencing
 - 17. Column Wraps
 - 18. Skirtboards
 - 19. Water tables
 - 20. Pilasters

1.2 RELATED SECTIONS

- A. Section 06 11 16 – Mechanically Graded Lumber
- B. Section 06 20 00 – Finish Carpentry
- C. Section 06 30 00 – Exterior Carpentry
- D. Section 06 40 00 – Architectural Woodwork
- E. Section 06 43 16 – Wood Railings
- F. Section 06 64 00 - Plastic Paneling
- G. Section 06 65 00 – Plastic Simulated Wood Trim
- H. Section 06 66 00 – Custom Ornamental Simulated Woodwork
- I. Section 09 90 00 – Painting and Coating

1.3 REFERENCES

- A. ASTM D792 - Density and Specific Gravity of Plastics by Displacement.
- B. ASTM D570 - Water Absorption of Plastics.
- C. ASTM D638 - Tensile Properties of Plastics.
- D. ASTM D790 - Flexural Properties of Unreinforced and Reinforced Plastics and Electrical Insulating Materials.
- E. ASTM D1761 - Mechanical Fasteners in Wood.
- F. ASTM D5420 - Standard Test Method for Impact Resistance of Flat, Rigid Plastic Specimen by means of a Striker Impacted by a Falling Weight.
- G. ASTM D256 - Determining the Pendulum Impact Resistance of Plastics.
- H. ASTM D696 - Coefficient of Linear Thermal Expansion of Plastics Between -30°C and 30°C with a Vitreous Silica Dilatometer.
- I. ASTM D635 - Rate of Burning and/or Extent and Time of Burning of Plastics in a Horizontal Position.
- J. ASTM E84 - Surface Burning Characteristics of Building Materials.
- K. ASTM D648 - Deflection Temperature of Plastics Under Flexural Load in the Edgewise Position.
- L. ASTM D3679 - Standard Specification for Rigid Poly Vinyl Chloride (PVC) Siding.

1.4 SUBMITTALS

- A. General: Submit under provisions of Section 01 30 00 – Administrative Requirements.
- B. Product Data: Manufacture's data sheets on each product to be used, including:
 - 1. Preparation instructions and recommendations.
 - 2. Storage and handling requirements and recommendations.
 - 3. Installation instructions and methods.
 - 4. Code compliance reports.
- C. LEED Submittals: Provide documentation of how the requirements of Credit will be met:
 - 1. List of proposed materials demonstration that each material was extracted, harvested or recovered, as well as manufactured within 500 miles of the project site.
- D. Samples: For each product specified, two samples, minimum size 6 inches long, representing actual product, color, finish.

1.5 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Manufacturer with a minimum of 15 years producing PVC trim products.
- B. Installer Qualifications: Installer with a minimum of 3 years experience with the installation of PVC trim products.
- C. Regulatory Requirements: Check with Local Building Code for installation requirements.
- D. Allowable Tolerances:
 - 1. Variation in component length: -0.00 / +1.00"
 - 2. Variation in component width: $\pm 1/16$ "

3. Variation in component thickness: $\pm 1/16''$
 4. Variation in component edge cut: $\pm 2^\circ$
 5. Variation in Density -0% + 10%
- E. Mock-Up: Provide a mock-up for evaluation of surface preparation techniques and application workmanship.
1. Finish areas designed by Architect.
 2. Do not proceed with remaining work until workmanship, color, and sheen are approved by architect.
 3. Refinish mock-up area as required to produce acceptable work.
 4. Accepted mock-ups shall be comparison standard for remaining work.

1.6 DELIVERY, STORAGE AND HANDLING

- A. Trim materials should be stored on a flat and level surface on a full shipping pallet. Handle materials to prevent damage to product edges and corners.
- B. Store materials under a protective covering to prevent jobsite dirt and residue from collecting on the boards.

1.7 WARRANTY

- A. Provide manufacturer's Limited Lifetime warranty against defects in manufacturing that cause the products to rot, corrode, delaminate, or excessively swell from moisture.

PART II PRODUCTS

2.1 MANUFACTURES

- A. Acceptable products: AZEK® Trimboards manufactured by The AZEK® Company, which is located at: 888 N Keyser Ave Scranton, PA 18508
- B. Substitutions: Not permitted
- C. Requests for substitutions will be considered in accordance with provisions of Section 01 60 00 – Product Requirements

2.2 MATERIALS

- A. PVC: Free foam cellular PVC material with a small cell microstructure and density of .55 grams/cm³.
- Material shall have a minimum physical and performance properties specified in the following Section C.
- C. Performance and physical characteristic requirements:

Property	Units	Value	ASTM Method
PHYSICAL			
Density	g/cm3	0.55	D 792
Water Absorption	%	0.15	D 570
MECHANICAL			
Tensile Strength	psi	2256	D 638
Tensile Modulus	psi	144,000	D 638
Flexural Strength	psi	3329	D 790
Flexural Modulus	psi	144,219	D 790
Nail Hold	Lbf/in of penetration	35	D 1761

Property	Units	Value	ASTM Method
Screw Hold	Lbf/in of penetration	680	D 1761
Staple Hold	Lbf/in of penetration	180	D 1761
Gardner Impact	in-lbs	103	D5420
Charpy Impact (@23°C)	ft-lbs	4.5	D256
THERMAL			
Coefficient of Linear Expansion	in/in/°F	3.2 x 10-5	D 696
Burning Rate	in/min	No burn when flame removed	D 635
Flame Spread Index	--	25	E 84
Heat Deflection Temp 264 psi	°F	150	D 648
Oil Canning (@140°F)	°F	Passed	D 648

2.3 SIMULATED WOOD TRIM

- A. PVC Trimboard: AZEK® Trimboard with Sealed Edge, designed with a natural appearance to compliment fiber cement and natural cedar.

1. Size:
 - a. Nominal Width:
 - 1) 2 inches
 - 2) 4 inches
 - 3) 5 inches
 - 4) 6 inches
 - 5) 8 inches
 - 6) 10 inches
 - 7) 12 inches
 - 8) 16 inches
 - b. Nominal Thickness:
 - 1) 5/8 inch (5/8 inch actual size)
 - 2) 1 inch (3/4 inch actual size)
 - 3) 5/4 inch (1 inch actual size)
 - 4) 6/4 inch (1-1/4 inch actual size)
 - 5) 8/4 inch (1-1/2 inch actual size)
 - c. Length:
 - 1) 12 feet
 - 2) 18 feet
2. Finish:
 - a. Traditional/Smooth finish
 - b. Reversible with Traditional (Smooth)/Frontier (Woodgrain) finish

- B. Sheet Board: AZEK® Traditional (Smooth)/Frontier (Woodgrain) finish Sheet. For use as sheet materials or to create columns and gingerbread millwork.

1. Size:
 - a. Width/Length:
 - 1) 4 foot by 8 foot
 - 2) 4 foot by 10 foot
 - 3) 4 foot by 12 foot
 - 4) 4 foot by 18 foot
 - 5) 4 foot by 20 foot
 - b. Thickness:
 - 1) 3/8 inch
 - 2) 1/2 inch
 - 3) 5/8 inch

- 4) 3/4 inch
 - 5) 1 inch
 - 6) 1-1/4 inch
 - 7) 1-1/2 inch
 - 2. Finish:
 - a. Smooth/Traditional finish
 - b. Reversible with Traditional (Smooth)/Frontier (Woodgrain) finish
- C. PVC Cornerboard: AZEK® Corners: Folded, 90-degree, one-piece assembly produced with a Traditional or Frontier appearance to compliment fiber cement and natural cedar.
 - 1. Size:
 - a. Nominal Corner Size:
 - 1) 4 inches
 - 2) 6 inches
 - 3) 8 inches
 - b. Nominal Thickness:
 - 1) 5/4 inch (1 inch actual size)
 - c. Length:
 - 1) 10 feet
 - 2) 20 feet
 - 2. Finish:
 - a. Traditional (Smooth)
 - b. Frontier (Woodgrain)
- D. PVC Bead Board: AZEK® Beadboard: Tongue-and-Groove and Beaded Sheets.
 - 1. Size:
 - a. Thickness/Width/Length:
 - 1) Regular 5/8 inch by 4 Inches (Actual size 5/8 inch by 3-1/2 inches). Length 18 feet.
 - 2) Regular 1/2 inch by 6 inches (Actual size 1/2 inch by 5-1/2 inches). Length 18 feet.
 - 3) Regular 1 inch by 6 inches (Actual 3/4 inch by 5 1/2 inch). Length 18 feet.
 - 4) Sheet 1/2 inch by 4 feet (Actual size 1/2 inch by 48-1/8 inches) Length 8 feet.
 - 5) 1/2 inch by 4 Inches (Actual size 1/2 inch by 3-1/2 inches). Length 18 feet.
 - 6) 1/2 inch by 6 inches (Actual size 1/2 inch by 5-1/2 inches). Length 18 feet.
 - 7) 1 inch by 6 inch (Actual size 3/4 inch by 5 1/2 inches). Length 18 feet.
 - 8) WP4 T & G board 3/4 inch by 5-7/16 inch. Length 18 feet.
 - 9) Shiplap 1 inch by 6 inches (Actual size 3/4" by 5 1/2"). Length 18'
 - 10) Shiplap 1 inch by 8 inches (Actual size 3/4" by 7 1/4"). Length 18'
 - 2. Finish:
 - a. Traditional/Smooth finish.
- E. Mouldings: AZEK® Mouldings designed to complement exterior trim.
 - 1. Crowns:
 - a. 3 inches.
 - b. 4 Inches.
 - c. 5 inches.
 - d. 6 inches.
 - e. 8 inches.
 - f. Bed Mould.
 - g. Rams Crown.
 - h. Solid Crown.
 - i. Imperial Rake Crown.
 - j. Crosshead Pediment.
 - 2. Casings:
 - a. Base Cap.
 - b. Brick Mould.
 - c. Back Band.
 - d. Rake Moulding.

- e. Adams Casing.
 - f. Crosshead Pediment.
 - g. Fluted/Reeded Casing.
- 3. Cove:
 - a. Quarter Round.
 - b. Bed Moulding.
 - c. Baluster Moulding.
 - d. Scotia Cove.
 - e. Cove Moulding
- 4. Sill:
 - a. Sill.
 - b. Sill Nose.
 - c. Heavy Sill.
 - d. Sub Sill Nose.
 - e. Historic Sill.
 - f. Large Historic Sill.
 - g. Window Sill Nose
- 5. Specialty:
 - a. Drip Cap.
 - b. Shingle Mould.
 - c. Garage Door Thermostop.
 - d. Water Table.
 - e. Beaded Cap.
 - f. Panel Mould.
 - g. Wainscot Cap.
- 6. J-Channel Series.
 - 1) J-Brick
 - 2) 4" J-Casing
 - 3) 6" J-Casing
 - 4) 4" QuickCorner
 - 5) 6" QuickCorner
- 7. Length:
 - a. 12 feet.
 - b. 16 feet.
 - c. 18 feet.
- 8. Finish:
 - a. Smooth finish.

2.4 SIMULATED WOOD TRIM

- A. PVC Trimboard: AZEK® Rabbeted Trimboard, designed with 3/4 inch pocket to accommodate any siding product including fiber cement, cedar, hardboard and vinyl.

- 1. Size:
 - a. Nominal Width:
 - 1) 4 inches
 - 2) 6 inches
 - 3) 8 inches
 - b. Nominal Thickness:
 - 1) 5/4 inch (1 inch actual size)
 - c. Length:
 - 1) 18 feet
- 2. Finish:
 - a. Traditional/Smooth finish
 - b. Frontier (Woodgrain) finish

B.

- C. PVC Cornerboard: AZEK® Rabbeted Corners. Folded 90 degree one piece corner assembly designed with 3/4 inch pocket to accommodate any siding product including fiber cement, cedar, hardboard and vinyl.

- 1. Size:
 - a. Nominal Corner Width:

- 1) 4 Inches
 - 2) 6 inches
 - b. Nominal Thickness:
 - 1) 5/4 inch (1 inch actual size).
 - c. Length:
 - 1) 10 feet.
 - 2) 20 feet.
- D. PVC Skirtboard: AZEK® 1-Piece Skirtboard. Precut trim providing grade clearance and starter strip for fiber cement sidings as well as composite sidings.
 - 1. Size:
 - a. Nominal Width:
 - 1) 5/4 inch x 4 inches
 - 2) 5/4 inch by 6 inches
 - 3) 5/4 inch by 8 inches
 - 4) 1 inch by 4 inches
 - 5) 1 inch by 6 inches
 - 6) 1 inch by 8 inches
 - 7) 1 inch by 10 inches
 - b. Length:
 - 1) 18 feet.
 - 2. Finish:
 - a. Traditional/Smooth finish.
 - b. Frontier/Woodgrain finish.
- E. PVC Skirtboard: AZEK® Universal Skirt Board, A two-piece reversible trimboard with integrated z-flashing and starter.
 - 1. Size:
 - a. Nominal Width:
 - 1) 5/4 inch by 6 inches
 - 2) 5/4 inch by 8 inches
 - 3) 5/4 inch by 10 inches
 - b. Length:
 - 1) 18 feet.
 - 2. Finish:
 - a. Traditional/Smooth finish.
 - b. Frontier/Woodgrain finish.
- F. PVC Bandboard/Skirtboard: AZEK® Integrated Drip Edge, A two-piece reversible trimboard with integrated z-flashing.
 - 1. Size:
 - a. Nominal Width:
 - 1) 5/4 inch by 6 inches
 - 2) 5/4 inch by 8 inches
 - 3) 5/4 inch by 10 inches
 - b. Length:
 - 1) 18 feet.
 - 2. Finish:
 - a. Traditional/Smooth finish.
 - b. Frontier/Woodgrain finish.
- G.
- H. PVC Columnwrap: AZEK® one-piece column wraps.
 - 1. Size:
 - a. Nominal Width:
 - 1) 4 inches by 4 inches (inside dimensions 3-3/4 inches)
 - 2) 6 inches by 6 inches (inside dimensions 5-3/4 inches)
 - 3) 8 inches by 8 inches (inside dimensions 7-1/2 inches)
 - b. Length:

- 1) 8 feet 6 inches
 - 2) 10 feet
 - c. Thickness:
 - 1) 1/2 inch
- 2. Finish:
 - a. Traditional/Smooth finish.

2.5 SIMULATED WOOD TRIM

- A. Paintable PVC Trimboard: AZEK® PaintPro® Trimboard, designed with a natural appearance to compliment fiber cement, engineered wood, natural cedar and is engineered to be painted.
 - 9. Size:
 - a. Nominal Width:
 - 1) 4 inches
 - 2) 6 inches
 - 3) 8 inches
 - 4) 10 inches
 - 5) 12 inches
 - b. Nominal Thickness:
 - 1) 1 inch (3/4 inch actual size)
 - 2) 5/4 inch (1 inch actual size)
 - c. Length:
 - 1) 16 feet
 - 10. Finish:
 - a. Reversible with Traditional (Smooth)/Frontier (Woodgrain) finish
 - b. Painting
 - 1) Must be painted within 180 days of UV exposure
 - 2) For lighter colors with a Light Reflective Value (LRV) 55 or greater: paint must be 100% acrylic latex.
 - 3) For darker colors with an LRV less than 55: Paint must be vinyl-safe from a vinyl-safe color palette.
 - 4) For custom color, use a coating with solar reflective pigments

2.6 ACCESSORY PRODUCTS

- A. Fasteners:
 - 1. AZEK® Cortex for Trim
 - 2. Use fasteners design for wood trim and wood siding (thinner shank, blunt point, full round head) with AZEK®.
 - 3. Use a highly durable fastener such as stainless steel or hot-dipped galvanized.
 - 4. Staples, small brads and wire nails must not be used as fastening members.
 - 5. The fasteners should be long enough to penetrate the solid wood substrate a minimum of 1 1/2".
 - 6. Standard nail guns work well with AZEK® trim products.
 - 7. Use 2 fasteners per every framing member for trimboard applications. Trimboards 12" or wider, as well as sheets, will require additional fasteners.
 - 8. Fasteners must be installed no more than 2" from the end of each board.
 - 9. AZEK® should be fastened into a flat, solid substrate. Fastening AZEK® into hollow or uneven areas must be avoided.
 - 10. Pre-drilling is typically not required unless a large fastener is used or product is installed in low temperatures.
 - 11. 3/8" and 1/2" sheet product is not intended to be ripped into trim pieces. These profiles must be glued to a substrate and mechanically fastened.
- B. Adhesives:

1. Glue all AZEK® to AZEK® joints such as window surrounds, long fascia runs, etc. with AZEK® Adhesive, a cellular pvc cement, to prevent joint separation.
2. The glue joint should be secured with a fastener and/or fastened on each side of the joint to allow adequate bonding time.
3. AZEK® Adhesive has a working time of 10 minutes and will be fully cured in 24 hours.
4. If standard pvc cements are used, keep in mind these products typically cure quickly which will result in limited working time and may reduce adhesive strength.
5. Surfaces to be glued should be smooth, clean and in complete contact with each other.
6. To bond AZEK® to other substrates, various adhesives may be used. Consult adhesive manufacturer to determine suitability.

C. Sealants:

1. Use urethane, polyurethane or acrylic based sealants without silicone.

2.7 FINISHES

A. AZEK products do not require paint for protection but may be painted to achieve a custom color.

B. Preparation:

1. No special surface preparations are required prior to painting - sanding is not necessary for paint adhesion.
2. Surface must be clean and dry.
3. Use a 100% acrylic latex paint with a Light Reflective Value (LRV) of 55 or higher.
4. Follow the paint manufacturer's recommendations to apply.

PART III EXECUTION

3.01 INSTALLATION

A. Manufacturer instructions:

1. Comply with manufacturer's product catalog installation instructions and product technical bulletin instructions.

B. Cutting:

1. AZEK® products can be cut using the same tools used to cut lumber.
2. Carbide tipped blades designed to cut wood work well. Avoid fine tooth metal cutting blades.
3. Rough edges from cutting may be caused by excessive friction, poor board support, or worn or improper tooling.

C. Cutting:

1. AZEK® products can be drilled using the same tools used to drill lumber.
2. Drilling AZEK® products is similar to drilling a hardwood. Care should be taken to avoid frictional heat build-up.
3. Use standard woodworking drills. Do not use drills made for normal rigid pvc.
4. Periodic removal of AZEK® shavings from the drill hole may be necessary.

D. Milling:

1. AZEK® products can be milled using standard milling machines used to mill lumber.
2. Relief Angle 20° to 30°
3. Cutting speed to be optimized with the number of knives and feed rate.

E. Routing:

1. AZEK® products can be routed using standard router bits and the same tools used to rout lumber.
2. Carbide tipped router bits are recommended.

F. Edge Finishing:

1. Edges can be finished by sanding, grinding or filing with traditional woodworking tools.

G. Nail Location:

1. Use 2 fasteners per every framing member for trimboard applications.
2. Trimboards over 12" or wider, as well as sheets, will require additional fasteners.
3. Fasteners must be installed no more than 2" from the end of each board.


H. Thermal Expansion and Contraction:

1. AZEK® products expand and contract with changes in temperature.
2. Properly fastening AZEK® material along its entire length will minimize expansion and contraction.
3. When properly fastened, allow 1/8" per 18 foot of AZEK® product for expansion and contraction.
4. Joints between pieces of AZEK® should be glued to eliminate joint separation. When gaps are glued on a long run of AZEK®, allow expansion and contraction at ends of the run.

END OF SECTION

All Categories   **timbertech** 

Clear Filters

Thumbnail Size  Sort Most Relevant 

30 Products



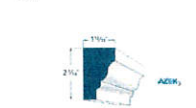
Mahogany
Cladding



1" x 4" Integrated Drip Edge
Trim



1x4 Traditional Trimboard with
Protective Film
Trim



Ram's Crown Moulding AZM-
6934
Moulding



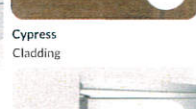
1x8 PVC Trim with PaintPro®
Technology
Trim



2" Large Sill Nose AZM-7958
Moulding



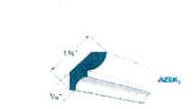
2" Backband AZM-6931
Moulding



Weathered Teak
Cladding



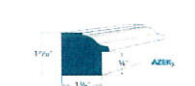
3" J-Quick Corner Inside Corner
Trim



1.5" Inside Corner Moulding
AZM-236
Moulding



Brick Mould AZM-180
Moulding



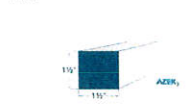
Black Radiance Top Rail
Railing



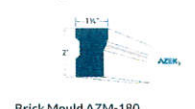
White Premier Top Rail
Railing



Water Table AZM-6935
Moulding



Coastline
Cladding



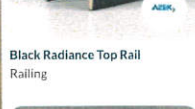
1" x 6" J-Casing
Trim



Base Cap AZM-164
Moulding



Garage Door Thermostop AZM-
6936
Moulding



5" Crown Moulding AZM-47
Moulding



4" Column Wrap
Column Wrap



1" x 4" J-Casing
Trim



1" x 6" J-Casing
Trim



Base Cap AZM-164
Moulding



4" Column Wrap
Column Wrap

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DIVISION: 06 00 00—WOOD, PLASTICS AND COMPOSITES

Section: 06 50 00—Structural Plastics

REPORT HOLDER:

CPG BUILDING PRODUCTS LLC

EVALUATION SUBJECT:

AZEK® TRIMBOARDS TRADITIONAL, AZEK® MILLWORK, AZEK TO MILL, AZEK® TRIMBOARDS FRONTIER SERIES, AZEK® SHEETS, AZEK® BEADBOARD, AZEK® CORNERBOARDS, AZEK® UNIVERSAL SKIRT BOARD, AZEK® FINISH GRADE TRIM, AZEK® INTEGRATED DRIP EDGE, AZEK® RABBETED CORNERBOARDS, AZEK® RABBETED TRIMBOARDS, AND AZEK COLUMN WRAP

1.0 EVALUATION SCOPE

1.1 Compliance with the following codes:

- 2015, 2012, 2009, 2006 and 2003 *International Building Code*® (IBC)
- 2015, 2012, 2009, 2006 and 2003 *International Residential Code*® (IRC)
- 2013 *Abu Dhabi International Building Code* (ADIBC)[†]

[†]The ADIBC is based on the 2009 IBC. 2009 IBC code sections referenced in this report are the same sections in the ADIBC.

Properties evaluated:

- Weather resistance
- Termite resistance
- Surface burning characteristics
- Structural—negative-transverse wind loads on soffits

1.2 Evaluation to the following green code(s) and/or standards:

- 2019 California Green Building Standards Code (CALGreen), Title 24, Part 11
- 2015, 2012 and 2008 ICC 700 *National Green Building Standard*™ (ICC 700-2015, ICC 700-2012 and ICC 700-2008)

Attributes verified:

See Section 3.0

2.0 USES

AZEK® Trimboards Traditional, AZEK® Millwork, AZEK to Mill, AZEK® Trimboards Frontier Series, AZEK® Sheets, AZEK® Beadboard, AZEK® Cornerboards, AZEK® Universal Skirt Board, AZEK® Finish Grade Trim, AZEK® Integrated Drip Edge, AZEK® Rabbeted Cornerboards, AZEK® Rabbeted Trimboards, and AZEK Column Wrap are used as nonload-bearing exterior trim.

3.0 DESCRIPTION

AZEK® Trimboards Traditional, AZEK® Millwork, AZEK to Mill, AZEK® Trimboards Frontier Series, AZEK® Sheets, AZEK® Beadboard, AZEK® Cornerboards, AZEK® Universal Skirt Board, AZEK® Finish Grade Trim, AZEK® Integrated Drip Edge, AZEK® Rabbeted Cornerboards, AZEK® Rabbeted Trimboards and AZEK Column Wrap are rigid cellular PVC solid cross sections installed as corner boards, soffits, fascias, column wraps, door pilasters, frieze boards, nonload-bearing rake boards, architectural millwork, door trim, and window trim.

The material is expanded rigid poly-vinyl-chloride material with a small-cell micro structure. AZEK® Trimboards Traditional are supplied with a smooth surface on both sides. AZEK® Millwork is machined from AZEK Trimboards using common woodworking equipment. AZEK Trimboards Frontier Series are supplied with a textured surface on one side and a smooth surface on the other. AZEK Trimboards Traditional and AZEK Trimboards Frontier Series are available in nominal widths of 4 inches to 16 inches and nominal thicknesses of $\frac{5}{8}$, $\frac{4}{4}$, $\frac{5}{4}$ and $\frac{6}{4}$ inches. AZEK Sheets are available in 4-foot (1.2 m) widths and in lengths of 8, 10, 12, 18 and 20 feet (2.4, 3.0, 3.6, 5.4 and 6.0 m), with actual thicknesses of, $\frac{3}{8}$, $\frac{1}{2}$, $\frac{5}{8}$, $\frac{3}{4}$ and $1\frac{1}{4}$ inches (9.5, 12.7, 15.0, 19.1, 25.4 and 31.75 mm). AZEK Beadboards are available in two nominal sizes, $\frac{1}{2}$ inch thick by 6 inches wide by 18 feet long and $\frac{5}{8}$ inch thick by 4 inches wide by 18 feet long. AZEK Cornerboards are available in nominal thicknesses of $\frac{6}{4}$ and $\frac{5}{4}$ inches, nominal outside-corner widths of 4 and 6 inches, and in lengths of 10 and 20 feet. AZEK® Universal Skirt Board is used to provide a transition between siding and trim, and is a two-piece product that consists of a routed AZEK Trimboard with a $1\frac{1}{2}$ -inch (33.75 mm) nailing flange and $\frac{1}{4}$ -inch (6.35 mm) drip edge overhang. The AZEK® Universal Skirt Board is available in a nominal thickness of $\frac{5}{4}$ inches, nominal widths of 6, 8 and 10 inches, and a length of 18 feet (5.4 m). AZEK® Integrated Drip Edge is used to assist in directing water

away from window and door surrounds and is a two-piece product that consists of a routed AZEK Trimboard with a 1¹/₄-inch (33.75 mm) nailing flange and 1¹/₈-inch (3.18 mm) drip edge overhang. The AZEK® Integrated Drip Edge is available in a nominal thickness of 5¹/₄ inches, nominal widths of 4 and 6 inches, and a length of 18 feet (5.4 m). AZEK® Finish Grade Trim is used to provide installation with hidden fasteners (a fastener-free trim surface) and is a two-piece product consisting of a base trim piece and a cover trim piece. AZEK® Finish Grade Trim is available in an installed nominal thickness of 6¹/₄ inches, nominal widths of 4 and 6 inches, and a length of 18 feet (5.4 m). AZEK® Rabbeted Cornerboards and Trimboards are produced with a 3³/₄-inch (19 mm) square removed from each edge. The AZEK® Rabbeted Cornerboards are available in a nominal thickness of 5¹/₄ inches, nominal widths of 4, 6 and 8 inches, and lengths of 10 and 20 feet (3 m and 6 m). AZEK® Rabbeted Trimboards are available in a nominal thickness of 5¹/₄ inches, nominal widths of 4, 6 and 8 inches, and a length of 18 feet (5.4 m). AZEK Column Wrap consists of three connected panels and a fourth locking panel that secures the Column Wrap in place. AZEK Column Wrap is 1¹/₂ inch thick and has actual outside dimensions of 4³/₄ inches, 6³/₄ inches, or 8³/₄ inches, and is installed around a nominal 4-by-4, 6-by-6 or 8-by-8 wood column or post. AZEK Column Wrap is available in 10-foot lengths.

All AZEK products covered under this evaluation report, up to a maximum nominal thickness of 6¹/₄ inches, and AZEK® Finish Grade Trim at a maximum nominal installed thickness of 6¹/₄ inches, have a flame-spread index of less than 25 when tested in accordance with ASTM E84.

The attributes of the AZEK products have been verified as conforming to the requirements of (i) CALGreen Section A4.405.1.1 for prefinished building materials and Section A5.406.1.2 for reduced maintenance; (ii) ICC 700-2015 and ICC 700-2012 Sections 602.1.6 and 11.602.1.6 for termite-resistant materials and Sections 601.7, 11.601.7, and 12.1(A).601.7 for site-applied finishing materials; and (iii) ICC 700-2008 Section 602.8 for termite-resistant materials and Section 601.7 for site-applied finishing materials. Note that decisions on compliance for those areas rest with the user of this report. The user is advised of the project-specific provisions that may be contingent upon meeting specific conditions, and the verification of those conditions is outside the scope of this report. These codes or standards often provide supplemental information as guidance.

4.0 INSTALLATION

4.1 General:

AZEK Trimboards Traditional, AZEK® Millwork, AZEK to Mill, AZEK® Trimboards Frontier Series, AZEK® Sheets, AZEK® Beadboard, AZEK® Cornerboards AZEK® Universal Skirt Board, AZEK® Finish Grade Trim, AZEK® Integrated Drip, AZEK® Rabbeted Cornerboards, AZEK® Rabbeted Trimboards and AZEK Column Wrap must be installed in accordance with the manufacturer's published installation instructions and this report.

The manufacturer's published installation instructions and this report must be strictly adhered to, and a copy of the instructions must be available at all times on the jobsite during installation. The instructions within this report must govern if there are any conflicts between the manufacturer's published installation instructions and this report.

4.2 Fasteners:

Fasteners must be stainless steel or hot-dipped galvanized, and must be approved box nails or finish wood screws designed for wood trim and wood siding with a thinner shank. Nails must have blunt points and full-rounded heads. The fasteners must be long enough to penetrate the solid wood substrate a minimum of 1¹/₂ inches (38.1 mm). The fasteners located at board ends must be placed no more than 2 inches (50.8 mm) from the end of the board.

4.3 Wind Load Assembly—Soffits Using AZEK® Trimboards:

AZEK® Trimboards measuring a minimum of 12 inches by 48 inches (304.8 mm by 1219.2 mm) must be installed on minimum 2-by-4 wood framing SPF stud grade (G = 0.42) spaced 16 inches (406.4 mm) on center. The AZEK® Trimboards are placed with the long direction perpendicular to the wood framing and are fastened to each of the wood members with two 3¹/₄-inch-long (82.55 mm), 16d box nails, located 1 inch (25.4 mm) from the seam/edge of panels. AZEK® Trimboards nominally 1 inch and 1¹/₄ inches thick must have a maximum allowable design load of 60 psf (2880 N/m²) suction, negative wind load.

5.0 CONDITIONS OF USE

The AZEK® Trimboards Traditional, AZEK® Millwork, AZEK to Mill, AZEK® Trimboards Frontier Series, AZEK® Sheets, AZEK® Beadboard, AZEK® Cornerboards AZEK® Universal Skirt Board, AZEK® Finish Grade Trim, AZEK® Integrated Drip Edge, AZEK® Rabbeted Cornerboards, AZEK® Rabbeted Trimboards and AZEK Column Wrap described in this report comply with, or are suitable alternatives to what is specified in, those codes listed in Section 1.0 of this report, subject to the following conditions:

- 5.1 This evaluation report and the manufacturer's published installation instructions, when required by the code official, must be submitted at the time of permit application.
- 5.2 The trim must be manufactured, identified and installed in accordance with this report and the AZEK Building Products instructions.
- 5.3 The product is limited to the following construction types:
 - 5.3.1 Nonload-bearing exterior trim on buildings of combustible non-fire-resistance-rated construction (Type VB of the IBC).
 - 5.3.2 Architectural trim on buildings of Type I, II, III and IV construction under 2006 and 2003 IBC Section 1406.2.2 that do not exceed 3 stories or 40 feet (12.2 m) in height above grade. The trim must be backed by noncombustible construction. The trim is limited to ten percent of the exterior wall surface area where the fire separation distance is 5 feet (1.52 m) or less.
 - 5.3.3 All construction types permitted under the IRC.
- 5.4 The product must be installed over solid backing material, such as approved exterior sheathing covered with an approved water-resistant barrier or approved exterior wall covering.

6.0 EVIDENCE SUBMITTED

Data in accordance with the ICC-ES Acceptance Criteria for Rigid Cellular PVC Nonload-Bearing Exterior Trim (AC227), dated December 2004 (editorially revised November 2017).

7.0 IDENTIFICATION

- 7.1** Each package of AZEK® Trimboards Traditional, AZEK® Millwork, AZEK to Mill, AZEK® Trimboards Frontier Series, AZEK® Sheets, AZEK® Beadboard, AZEK® Cornerboards AZEK® Universal Skirt Board, AZEK® Finish Grade Trim, AZEK® Integrated Drip Edge, AZEK® Rabbeted Cornerboards AZEK® Rabbeted Trimboards and AZEK Column Wrap described in this report must be labeled with the CPG Building Products LLC name, address and telephone number; the product trade name; and the evaluation report number (ESR-1074).

- 7.2** The report holder's contact information is the following:

CPG BUILDING PRODUCTS LLC
888 NORTH KEYSER AVENUE
SCRANTON, PENNSYLVANIA 18504
(570) 558-8000
www.azek.com
info@azek.com

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product Identifier

Product form: Article

Product name: AZEK TRIMBOARDS

1.2. Intended Use Of The Product

Use of the substance/mixture: Trim/Moulding on the Exterior/Interior of buildings

1.3. Name, Address, And Telephone Of The Responsible Party

Company

CPG International
888 North Keyser Ave
Scranton, PA, 18504
570-558-8000

www.AZEK.com

Manufacturer

AZEK Building Products
888 North Keyser Ave
Scranton, PA, 18504
570-558-8000

1.4. Emergency telephone number

570-558-8000

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS-US classification

Not Classified. Within the meaning of the OSHA Hazard Communication Standard [29 CFR 1910.1200]: this mixture is not considered a hazard when used in a manner which is consistent with the labeled directions. This mixture is considered an article in its final form.

2.2. Label elements

No additional information available

2.3. Other Hazards

Other Hazards Not Contributing to the Classification: Cutting, sawing, grinding, or other operations that generate dust may raise nuisance particles that can cause mechanical irritation to the skin, eyes, or respiratory tract. Polyvinyl chloride dust accumulation can present a dust explosion hazard. Take necessary measures to limit dust production, and follow applicable regulations.

2.4. Unknown acute toxicity (GHS US)

No data available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixture

Within the meaning of the OSHA Hazard Communication Standard [29 CFR 1910.1200]: this mixture is not considered a hazard when used in a manner which is consistent with the labeled directions.

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general: If injury occurs or if you feel unwell seek medical advice.

First-aid measures after inhalation: Not expected to present a significant inhalation hazard under anticipated conditions of normal use. Obtain medical attention if breathing difficulty persists.

First-aid measures after skin contact: None expected under normal conditions of use. Obtain medical attention if irritation develops or persists.

First-aid measures after eye contact: Adverse effects not expected from this product. Obtain medical attention if pain, blinking or redness persist.

First-aid measures after ingestion: Not expected to be a primary route of exposure. Obtain emergency medical attention.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries: Not expected to present a significant hazard under anticipated conditions of normal use. Prolonged contact with large amounts of dust may cause mechanical irritation. Final product may have sharp edges.

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Symptoms/injuries after inhalation: Not expected to present a significant inhalation hazard under anticipated conditions of normal use.

Symptoms/injuries after skin contact: Not expected to be a primary route of exposure. Risk of thermal burns on contact with molten product.

Symptoms/injuries after eye contact: Not expected to be a primary route of exposure. Excessive dust production at the time of cutting may cause minor eye irritation.

Symptoms/injuries after ingestion: Ingestion is not considered a potential route of exposure.

4.3. Indication of any immediate medical attention and special treatment needed

If you feel unwell, seek medical advice (show the label where possible).

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: Use extinguishing media appropriate for surrounding fire.

Unsuitable extinguishing media: Do not use a heavy water stream. Use of heavy stream of water may spread fire.

5.2. Special hazards arising from the substance or mixture

Fire hazard: Not considered flammable but may burn at high temperatures.

Explosion hazard: Product is not explosive.

Reactivity: Hazardous reactions will not occur under normal conditions.

5.3. Advice for firefighters

Precautionary measures fire: Exercise caution when fighting any chemical fire.

Firefighting instructions: Use water spray or fog for cooling exposed containers.

Protection during firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

Other information: Do not allow run-off from fire fighting to enter drains or water courses.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures: Avoid breathing (dust, vapors, fumes from molten material). Final product may have sharp edges.

6.1.1. For non-emergency personnel

Protective equipment: Use appropriate personal protection equipment (PPE).

Emergency procedures: Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment: Equip cleanup crew with proper protection.

Emergency procedures: Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

For containment: Avoid generation of dust during clean-up of spills. Sweep or vacuum the product to recover it.

Methods for cleaning up: Clear up spills immediately and dispose of waste safely.

6.4. Reference to other sections

See heading 8, exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed: Avoid dust production. Final product may have sharp edges. Risk of thermal burns on contact with molten product. Cutting, sawing, grinding, or other operations that generate dust may raise nuisance particles that can cause mechanical irritation to the skin, eyes, or respiratory tract. Polyvinyl chloride dust accumulation can present a dust explosion hazard. Take necessary measures to limit dust production, and follow applicable regulations.

Hygiene measures: Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work. Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store away from incompatible materials.

Incompatible products: Strong acids. Strong bases. Strong oxidizers.

7.3. Specific end use(s)

Trim/Molding on the Exterior/Interior of buildings

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

The final product is considered an article and not hazardous in its final form under normal conditions of use according to 29CFR 1910.1200. The ingredients contained within this product are not expected to be bioavailable under normal conditions of use.

8.2. Exposure controls

Appropriate engineering controls

: Provide adequate ventilation to minimize dust concentrations.

Personal protective equipment

: Safety glasses. Gloves. Insufficient ventilation (specifically with the accumulation of dust or vapors from molten product): wear respiratory protection.



Materials for protective clothing

: Not required for normal conditions of use. As necessary when handling hot or molten sheet, wear protective clothing.

Hand protection

: If handling hot or molten sheet wear insulated gloves, under normal conditions wear work gloves.

Eye protection

: Chemical goggles or safety glasses.

Respiratory protection

: Use NIOSH-approved air-purifying or supplied-air respirator where airborne concentrations of dust or vapors from molten product are expected to exceed exposure limits.

Other information

: When using, do not eat, drink or smoke.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: Finished Sheet/Board. White.
Odour	: No data available
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash Point	: No data available
Auto-ignition temperature	: No data available
Decomposition Temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Specific gravity	: 0.45-1.4
Solubility	: No data available
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: Not applicable

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9.2. Other information No additional information available

SECTION 10: Stability and reactivity

Reactivity Hazardous reactions will not occur under normal conditions.

Chemical Stability Stable at standard temperature and pressure. Sustained temperatures above 150°F may cause slow degradation.

Possibility Of Hazardous Reactions Hazardous polymerization will not occur.

Conditions To Avoid Direct sunlight. Extremely high or low temperatures. Incompatible materials.

Incompatible Materials Strong acids. Strong bases. Strong oxidizers.

Hazardous Decomposition Products Carbon oxides (CO, CO₂). Hydrogen chloride. Toxic gases.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

The final product is considered an article and not hazardous in its final form under normal conditions of use according to 29CFR 1910.1200. The ingredients contained within this product are not expected to be bioavailable under normal conditions of use.

Acute toxicity : Not classified

Skin corrosion/irritation: Not classified

Serious eye damage/irritation: Not classified

Respiratory or skin sensitisation: Not classified

Germ cell mutagenicity: Not classified

Carcinogenicity: Not classified

Reproductive toxicity: Not classified

Specific target organ toxicity (single exposure): Not classified

Specific target organ toxicity (repeated exposure): Not classified

Aspiration hazard: Not classified

Symptoms/injuries after inhalation: Not expected to present a significant inhalation hazard under anticipated conditions of normal use.

Symptoms/injuries after skin contact: Not expected to be a primary route of exposure. Risk of thermal burns on contact with molten product.

Symptoms/injuries after eye contact: Not expected to be a primary route of exposure. Excessive dust production at the time of cutting may cause minor eye irritation.

Symptoms/injuries after ingestion: Ingestion is not considered a potential route of exposure.

SECTION 12: Ecological information

12.1. Toxicity

The final product is considered an article and not hazardous in its final form under normal conditions of use according to 29CFR 1910.1200. The ingredients contained within this product are not expected to be bioavailable under normal conditions of use.

12.2. Persistence and degradability No additional information available

12.3. Bioaccumulative potential No additional information available

12.4. Mobility in soil No additional information available

12.5. Other adverse effects

Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Sewage disposal recommendations: Do not empty into drains; dispose of this material and its container in a safe way.

Waste disposal recommendations: Dispose of waste material in accordance with all local, regional, national, and international regulations.

SECTION 14: Transport information

In accordance with ICAO/IATA/DOT/TDG

14.1. UN number Not regulated for transport

14.2. UN proper shipping name Not regulated for transport

14.3. Additional information

Other information : Not regulated for transport

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Overland transport Not regulated for transport

Transport by sea Not regulated for transport

Air transport Not regulated for transport

SECTION 15: Regulatory information

15.1. US Federal regulations

The final product is considered an article and not hazardous in its final form under normal conditions of use according to 29CFR 1910.1200. The ingredients contained within this product are not expected to be bioavailable under normal conditions of use.

15.2. US State regulations

The final product is considered an article and not hazardous in its final form under normal conditions of use according to 29CFR 1910.1200. The ingredients contained within this product are not expected to be bioavailable under normal conditions of use.

SECTION 16: Other information

- | | |
|--------------------------|--|
| Data sources | : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200. |
| Other information | : Within the meaning of the OSHA Hazard Communication Standard [29 CFR 1910.1200]: this mixture is not considered a hazard when used in a manner which is consistent with the labeled directions. This mixture is considered an article in its final form. |

GHS Full Text Phrases:

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

SDS US (GHS HazCom)

EXHIBIT H

HELPFUL CHECKLIST FOR BIDDERS IN PREPARATION OF BID:

(does NOT have to be submitted with the bid)

*****DO NOT wait until last minute!! Contact Steve Frizzell at 301-606-6942 or Susan Au at 301-662-8173, ext. 1103 with any questions/concerns PRIOR the Bid Opening Date*****

DID YOU SUBMIT THE FOLLOWING WITH YOUR BID:

- ☐ 1) Representations, Certifications, and Other Statements of Bidders (HUD-5369-A) (section 00200)?
- ☐ 2) Bid Form (section 00300)?
- ☐ 3) Bid Guarantee (Bid Bond (section 00301), certified check, bank draft, U.S. Government Bonds at par value)?
- ☐ 4) Non-collusive Affidavit (section 00480)?
- ☐ 5) Section 3 – Agreement and Certification Form (section 00750, page 2)?

ON THE BID FORM (section 00300), DID YOU:

- ☐ 1) Acknowledge receipt of all Addenda (#2) by filling in number and actual date of Addendum?
- ☐ 2) Check off appropriate blanks (#5) – they have (), () have not as found under section beginning with “The bidder presents that...”?
- ☐ 3) Complete section on last page of bid consisting of Date, Name of Contractor & Official Address?
- ☐ 4) Seal last page of bid as indicated? (only if you have a company seal)

IF BID BOND (section 00301) WAS SUBMITTED, DID YOU:

- ☐ 1) Insert same date as found on last page of Bid Form (00300) in second paragraph where it reads, “The condition of this obligation is such that whereas the Principal has submitted the accompanying bid, dated _____, 20____,”?

ON THE REPRESENTATIONS, CERTIFICATIONS, AND OTHER STATEMENTS OF BIDDERS (section 00200), DID YOU:

- ☐ 1) Insert full name of person(s) in the Bidder’s organization responsible for determining the prices offered in this bid or proposal, and the title of his or her position in the bidder’s organization under Article 1, subparagraph b(2)?
- ☐ 2) Check appropriate box under Article 1, subparagraph d (2)?
- ☐ 3) Check appropriate boxes under Article 2, subparagraph b (1 & 2)?
- ☐ 4) Check box under Article 4, directly below subparagraphs a & b?
- ☐ 5) Check appropriate boxes under Article 7, subparagraphs a, b & c?
- ☐ 6) Check appropriate box under Article 11, subparagraph a?
- ☐ 7) Complete section #13 “Bidders Signature” – Signature & Date, Type or Print Name, Title, Company Name & Company Address?