728 Montooth St. Rehabilitation

HACP, Existing Single Family Home Repair and Level 2 Alterations 728 Montooth St., Pittsburgh, PA 15210

Drawing Index A1 Cover Sheet Project Contact Schedule Site Plan Drawing Index Code Conformance Information **A2 Abbreviations and General Notes** Abbreviations and Materials A3 Demolition Plans Basement Demo Plan First Floor Demolition Plan Second Floor Demolition Plan A4 Floor Plan Floor Plan Legend Basement Floor / Finish Plan First Floor / Finish Plan Second Floor / Finish Plan Roof Plan A5 Demolition / Reflected Ceiling Plan First Floor Reflected Ceiling Demolition Plan Second Floor Reflected Ceiling Demolition Plan First Floor Reflected Ceiling Plan Second Floor Reflected Ceiling Plan **A6 Schedules and Details** Door Schedule (With Existing) Door Types Window Schedule Window Types Finish Matrix Wall Types Stair Detail A7 Enlarged Kitchen Plan and Interior Elevations Enlarged Plan: Kitchen Kitchen Interior Elevation Kitchen Interior Elevation A8 Elevations & Wall Section West Elevation East Elevation Wall Section **A9 Outline Specifications** Outline Specifications Montooth 06.12.24 **A10 Outline Specifications** Outline Specifications Montooth 06.12.24 **A11 Outline Specifications** Outline Specifications Montooth 06.12.24

Code Conformance Information

Applicable Codes General:

2018 International Existing Building Code 2018 International Energy Conservation Code Energy:

Electrical: 2017 NEC (NFPA 70) 2018 International Fire Code Fire: 2018 International Fuel Gas Code Fuel Gas: Mechanical 2018 International Mechanical Code

2022 Allegheny County Health Department Plumbing Code Plumbing:

Fire Alarm: N/AN/A

Sprinkler:

General Building / Project Information Compliance Method: Ch. 3 of the IEBC Classification of Work: Level 2 Alteration R-2 Occupancy Group:

2 Stories (With basement) Stories: **Bulding Height:**

Basement: 725 sq. ft. / First Floor: 660 sq. ft. / Second Floor: 660 sq. ft. Building Gross Area: Total (Not Including Basement): 1,320 sq. ft. (Total building ~2,500

sq. ft. per floor

>50% of floor area. Level 2 Alteration. Work Area:

Construction Type: Sprinklers: None Fire Alarm: None

Contact Schedule

Note: Any questions concerning the Construction Documents shall first be directed to the Architect. The Architect will forward questions as appropriate to the consulting engineers.

Building Owner:

HACP 412 Boulevard of the Allies Pittsburgh,PA,15219

Fukui Architects, PC 205 Ross Street Pittsburgh, PA 15219 ph: 412.281.6001 fx: 412.281.6002 fgf@farpc.com

contact: Felix Fukui, AIA

Plan Review & Inspection:

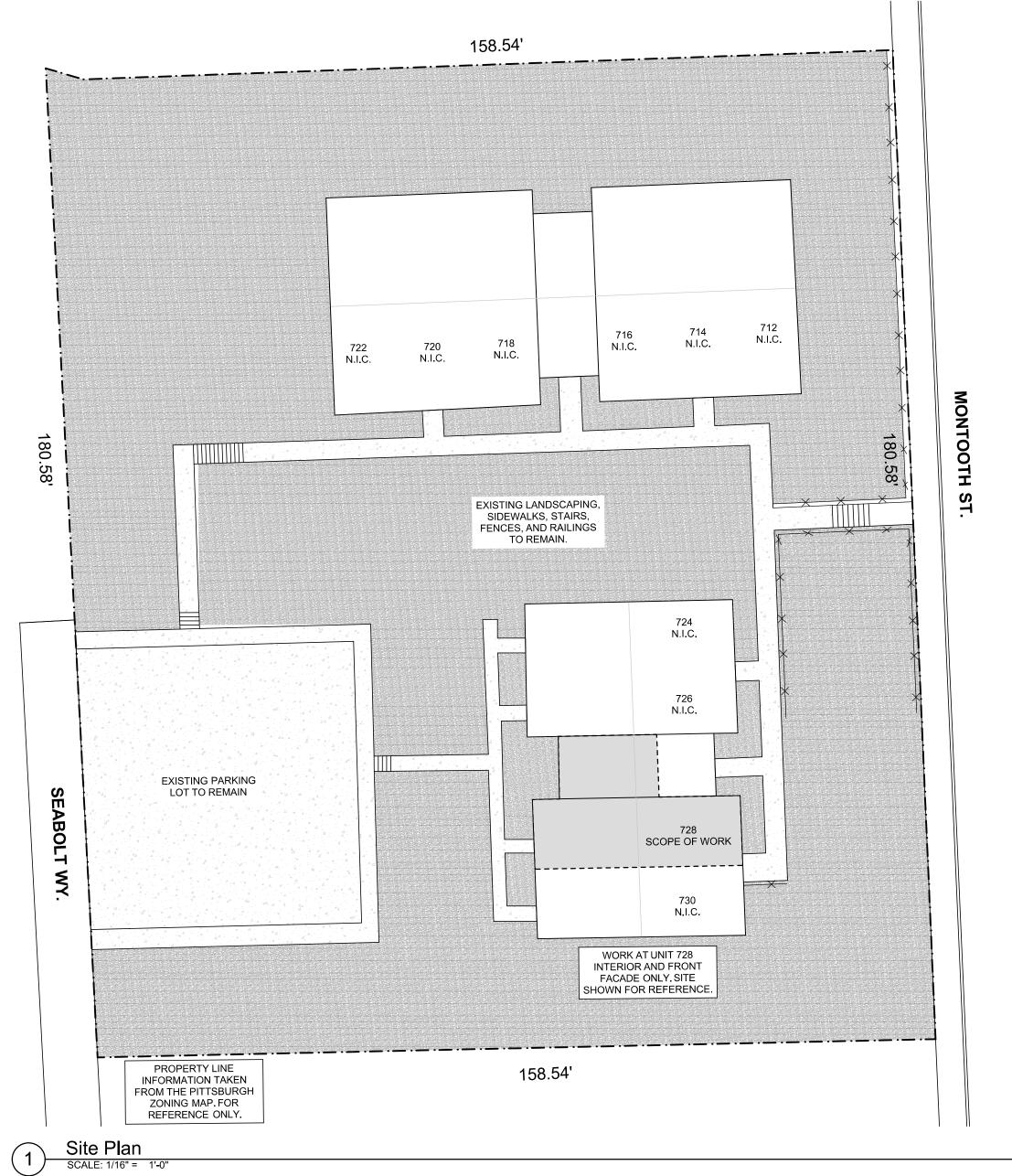
City of Pittsburgh Department of Permits Licenses and Inspections 200 Ross Street 3rd Floor, Room 320 Pittsburgh, PA 25205 ph: 412.255.2175

ROOF AND SITE PLAN LEGEND

BUILDING OUTLINE

PROPERTY FENCE

- - - - - PARTY WALL



Fukui Architects Pc

Pittsburgh, Pennsylvania 15219

ph 412.281.6001 fx 412.281.6002

205 Ross Street

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general notes

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SUBMIT FOR PERMIT 6.19.2024

PLI REVISIONS 7.31.2024

- PLI REVISIONS 8.22.2024
- SUBMIT FOR BID AND IFC 9.18.2024
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Site Plan, Project Contact Schedule, **Drawing Index, Code Conformance** Information

As Noted 05/24/2024

Sheet No.

Materials Legend NOT ALL MATERIALS USED EARTH COMPACTED STONE FILL CONCRETE RIGID INSULATION BLOCKING BATT INSULATION GYPSUM WALL BOARD PLYWOOD SHEATHING SPRAY FOAM INSULATION

Abbreviations and Materials

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

Abbreviations EQUIP. Miscellaneous A.F.F. Above Finish Floor MISC. Equipment Access Panel E.F. Exhaust Fan ACOUST. EXIST. Acoustical Not In Contract N.T.S. A.C.T. EXP. Acoustical Ceiling Tile Not To Scale Expansion ADH. **Expansion Joint** Adhesive ESH ADJUST. Adjustable Exterior Sheathing O.C. On Center EXIST. OPP. Air Conditioning EXP. O.H. Overhead Exposed Alteration EXT. ALTN. Exterior Alternate E.I.F.S. Exterior Insulation & Finish System ALUM. Aluminum A.O.R. Plaster Area of Refuge F.R.P. Fiberglass Reinforced Polyester PLAM Plastic Laminate APPROX. Approximate F.F. Finish Floor Plumbing Contractor ARCH. Architectural FIN.FLR. Finish Floor PLYWD. Plywood ASB. Asbestos F.A.C.P. Fire Alarm Control Panel POLY. Polyethylene ASPH. Aspha**l**t F.E. Fire Extinguisher P.V.C. Polyvinyl Chloride AUTO. Automatic FLR. PRE-FAB. Prefabricated AVG. Average Floor Drain BLK. Refer To FTG. RE. Footing BD. Refrigerator REF. Board BOT **Bottom** R.C.P. Reinforced Concrete Pipe BLDG G.C. REINF. Building General Contractor Reinforcement G.F.I. RD. Roof Drain Ground Fault Interrupter Cast In Place RM. GYP. Room C.B. G.W.B. Catch Basin Gypsum Wall Board S.A.T. Suspended Acoustical Tile CEM. CER. GSH Cement Gypsum Sheathing SCHED. Schedule Ceramic CG SHT. Sheet Corner Guard Handicap C.M.T. H.V.A.C. Heating, Ventilation & Similar Ceramic Mosaic Tile S.C. C.W.T. Ceramic Wall Tile Solid Core Height SPECS. C.O. Cleanout Hollow Core Specifications H.M. SQ. Hollow Metal Center Line HORIZ. S.F. Square Foot Horizontal S.S. Stainless Steel C.W. Cold Water H.W. Hot Water STL. Steel CLG. Ceiling STOR. COL. Storage Column STRUCT. Structura Concrete C.M.U. Insulated Metal Concrete Masonry Unit Telephone INSUL. Insulation or Insulated CONT. Continuous THK. Thick Interior CORR. T.B.D. To Be Determined C.M.P. Corrigated Metal Pipe T&G Tongue & Groove Isolation CRS. ISO. Courses T.O. Top Of T.G. Top Of Grade DIA. DET DGL DR. Janitor's Closet Diameter T.O.S. Top Of Steel Joint TYP. Typical Dens Glass Gold Laminate UNFIN. Unfinished DN. Lavatory Unless Noted Otherwise U.N.O. D.S. DWG. D.F. D.I.P. Long Downspout Vapor Barrier V.B. Medium Density Fiberboard VERT. Vertical M.D.F. Drinking Fountain VEST. M.D.H. Magnetic Door Holder Vestibu**l**e Ductile Iron Pipe V.C.T. Vinyl Composition Tile M.H. Manhole Manufacturer MFGR. W.H. Each Water Heater Maximum E.W. Each Way MAX. W.W.F. Welded Wire Fabric ELEC. MECH. Mechanical WIN. Electrical Window Metal E.C. MET. With Electrical Contractor Minimum MIN. W/O Without E**l**evation ELEV. **El**evation WD. Wood

Symbols NOT ALL SYMBOLS USED T.O. FINISH FLOOR
ELEV: 0'-0" **ELEVATION HEIGHT** PLAN NORTH NORTH ARROW GRAPHIC SCALE BUILDING/ WALL SECTION MARKER ELEVATION MARKER INTERIOR ELEVATION MARKER 4**(**A-000**)**2 DETAIL REFERENCE XXX-X FINISH MATERIAL DESIGNATOR

Fukui Architects Pc

205 Ross Street Pittsburgh, Pennsylvania 15219 ph 412.281.6001 fx 412.281.6002



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revisions

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Project Location:

728 Montooth St. Rehabilitation 728 Montooth St. Pittsburgh, PA 15210

drawing title

Abbreviations and Materials

As Noted 05/24/2024

Project #2364

Sheet No.

CLO. 726 MONTOOTH PREPARE EXISTING OPENING N.I.C. FOR NEW DOOR, REFER TO PROPOSED PLANS AND DOOR SCHEDULE FOR DETAILS. CLO. REMOVE EXISTING FRONT WALL AND PREPARE OPENING FOR NEW WALL AND WINDOW. BRACE AND SHORE WALL REMOVE EXISTING WALL. -ABOVE DURING DEMOLITION EXISTING WINDOWS TO REMAIN. PROTECT DURING -PROTECT EXISTING STRUCTURAL COLUMNS, PLUMBING STACKS, AND — CONSTRUCTION. REMOVE EXISTING - TEMPORARY PLYWOOD DUCTWORK DURING CONSTRUCTION. ENCLOSURE. DISONNECT AND CAP GAS METER DURING PATCHAND REPAIR OF DRYWALL WHERE NEEDED KITCHEN/DINING 102 102 - CONSTRUCTION. REINSTALL ON NEW EXTERIOR WALL ONCE COMPLETE. PREPARE EXISTING FLOORS). FULLY REPLACE SUBFLOORING FOR NEW VCT DRYWALL IN HEAVILY FLOOR. REFER TO FINISH DAMAGED AREAS (150 SQ FT. SCHEDULE FOR DETAILS. -TOTAL BETWEEN 2 FLOORS). TYP. AT FLOOR PATCHAND REPAIR FRAMING AS REQ'D. - TYP. AT FLOOR. 730 MONTOOTH N.I.C. NOTE: NO UTILITIES AVAILABLE AT UNIT. GC TO PROVIDE

POWER DURING

Basement Demo Plan

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

First Floor Demolition Plan

DEMOLITION PLAN LEGEND DEMOLISH EXISTING FLOORING FINISH IN HATCHED

POWER DURING CONSTRUCTION.

GENERAL DEMOLITION NOTES

 CONTRACTORS SHALL MAINTAIN EXISTING BUILDING IN A WEATHERTIGHT CONDITION. FOR ALL AREAS TO REMAIN

ANY NECESSARY SHUT DOWNS WITH OWNER.

CREATE CLEAN BREAK FOR FUTURE PATCHING

BELOW FINISHED SURFACES.

POSSIBLE.

2. DEMOLITION WASTE TO BE REMOVED FROM SITE BY

OUTSIDE OF WORK AREA: TAKE CARE TO PROTECT FROM

AND HVAC SERVING THESE AREAS UNLESS REQUIRED TO

DUST, DIRT, AND DAMAGE. PROVIDE CARPET COVERINGS AND

WALK OFF MATS; DO NOT DISTURB ELECTRICAL, PLUMBING,

PERFORM CONTRACTED WORK, THE GC IS TO COORDINATE

DEMOLITION CONTRACTOR AND DISPOSED OF PROPERLY.

3 AT INTERSECTION BETWEEN EXISTING WALLS TO REMAIN AND

WALLS TO BE REMOVED: TAKE CARE TO CUT CLEAN AND

WALLS MARKED FOR DEMOLITION BACK TO NEAREST

AT CONTRACTORS OPTION REUSE CIRCUITS WHERE

5 ALL PLUMBING/ MECHANICAL RUNS THAT ARE ABANDONED

DAMAGED DURING CONSTRUCTION TO APPEAR AS NEW.

AREA. SUBFLOORING TO REMAIN. EXISTING 1ST FLOOR FLOORING HAS ALREADY BEEN DEMOLISHED UNDER

6. REMOVE AND REPLACE CONCRETE SLAB AS REQUIRED.

7. REPAIR OR REPLACE ANY ITEMS TO REMAIN THAT ARE

PREVIOUS WORK AND IS N.I.C.

Second Floor Demolition Plan

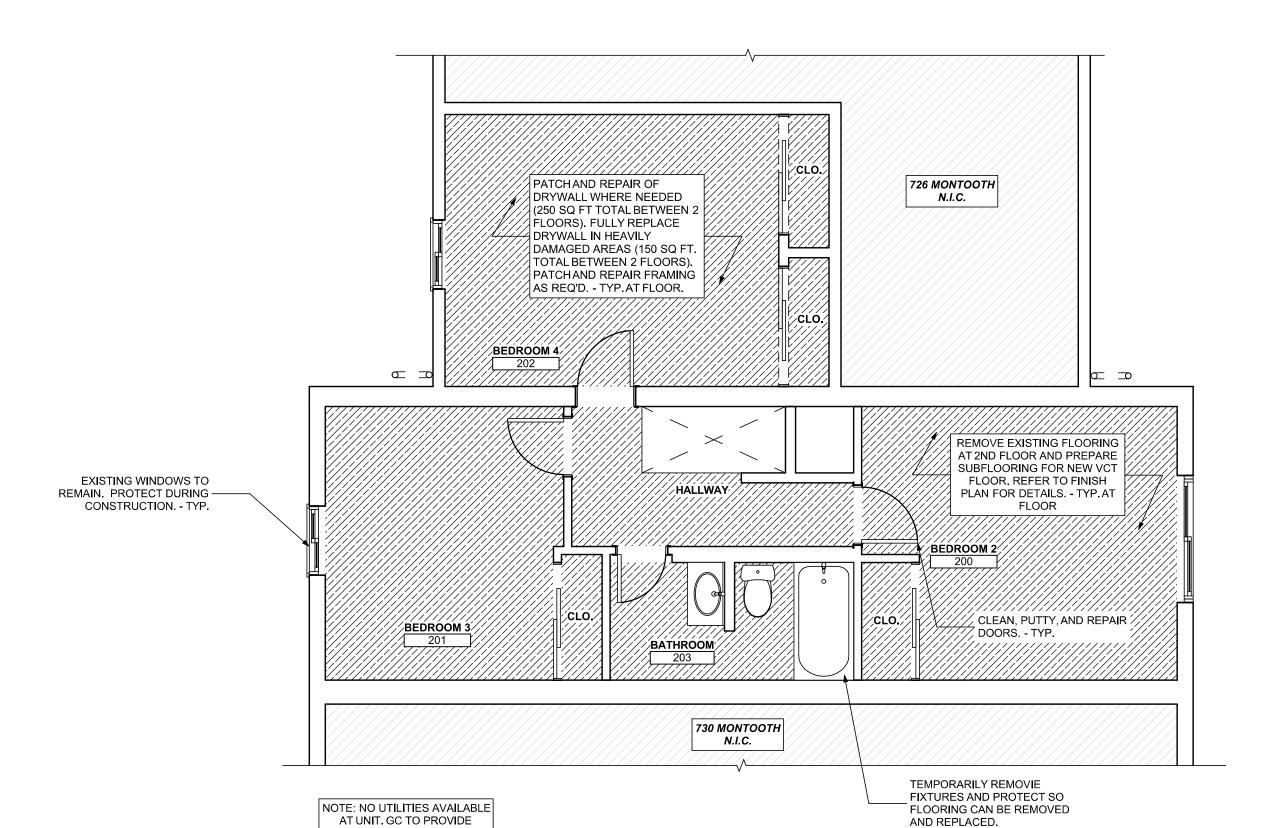
SCALE: 1/4" = 1'-0"

NOT IN CONTRACT

ARE TO BE CUT BACK AND CAPPED SECURELY BEHIND OR

REMOVE ALL ELECTRICAL OUTLETS AND LIGHTING CIRCUITS IN

JUNCTION BOX OR MAIN PANEL IF THERE IS NO JUNCTION BOX.



8. CONTRACTOR TO SET ASIDE SALVAGED ITEMS FOR

OVER TO THE OWNER.

ITEMS FROM DAMAGE.

BEFORE DEMOLITION.

DURING CONSTRUCTION.

REINSTALLATION AND PROTECT FROM DAMAGE. SEE FLOOR

PLANS FOR REINSTALLATION LOCATIONS. ANY SALVAGED

9. ITEMS NOT LABLED OR KEYED FOR REMOVAL / DEMOLITION

10. PROTECT EXISTING HVAC UNITS AND DUCTWORK FROM DUST

11. COORDINATE WITH OWNER ON EXACT DEMOLITION INTENT

MATERIALS NOT IDENTIFIED FOR REUSE SHALL BE TURNED

ARE EXISTING AND INTENDED TO REMAIN. PROTECT THESE

726 MONTOOTH N.I.C. SCRAPE AND CLEAN WALLS AND FLOORS OF EXISTING CALCIFICATION AND DEBRIS. PREPARE WALLS AND FLOOR FOR NEW WATERPROOFER PAINT PER PT-3 SPECIFICATIONS. \Box \Box EXISTING EQUIPMENT AND FIXTURES TO REMAIN. - TYP. 730 MONTOOTH N.I.C. NOTE: NO UTILITIES AVAILABLE AT UNIT, GC TO PROVIDE POWER DURING CONSTRUCTION.

Fukui Architects Pc

205 Ross Street
Pittsburgh, Pennsylvania 15219
ph 412.281.6001 fx 412.281.6002



ISSUED FOR BID

& CONSTRUCTION

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project title

revisions

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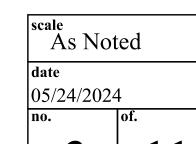
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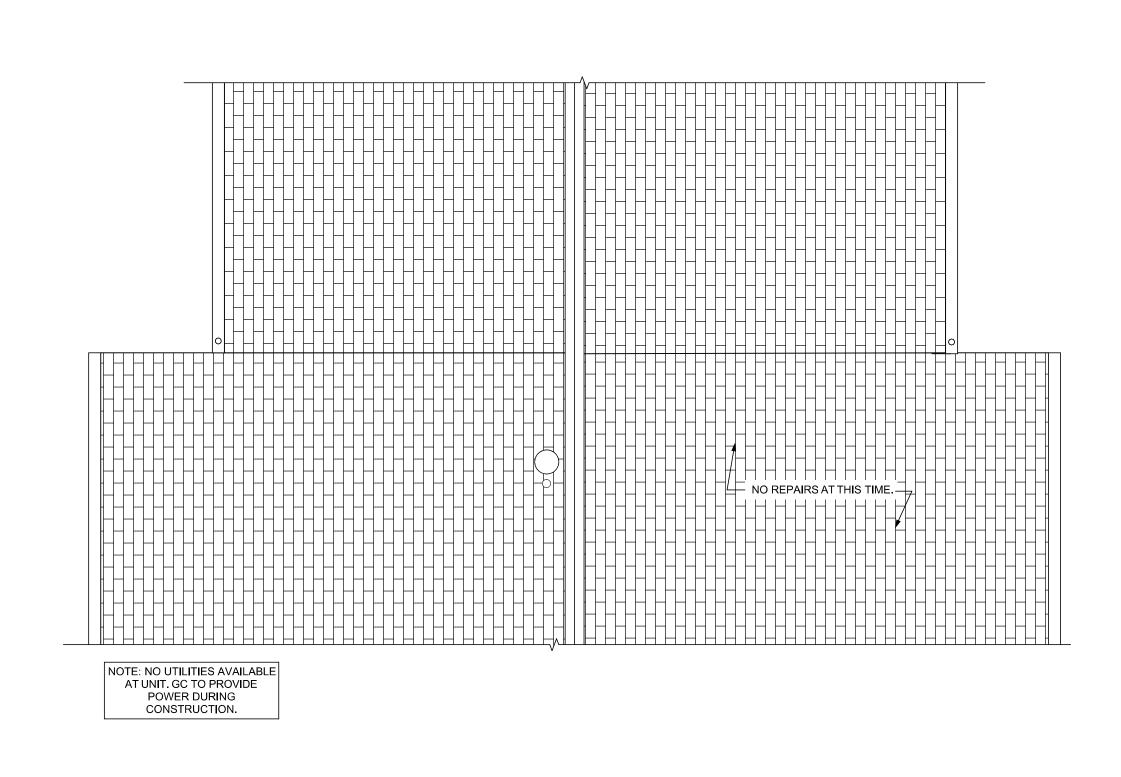
drawing title

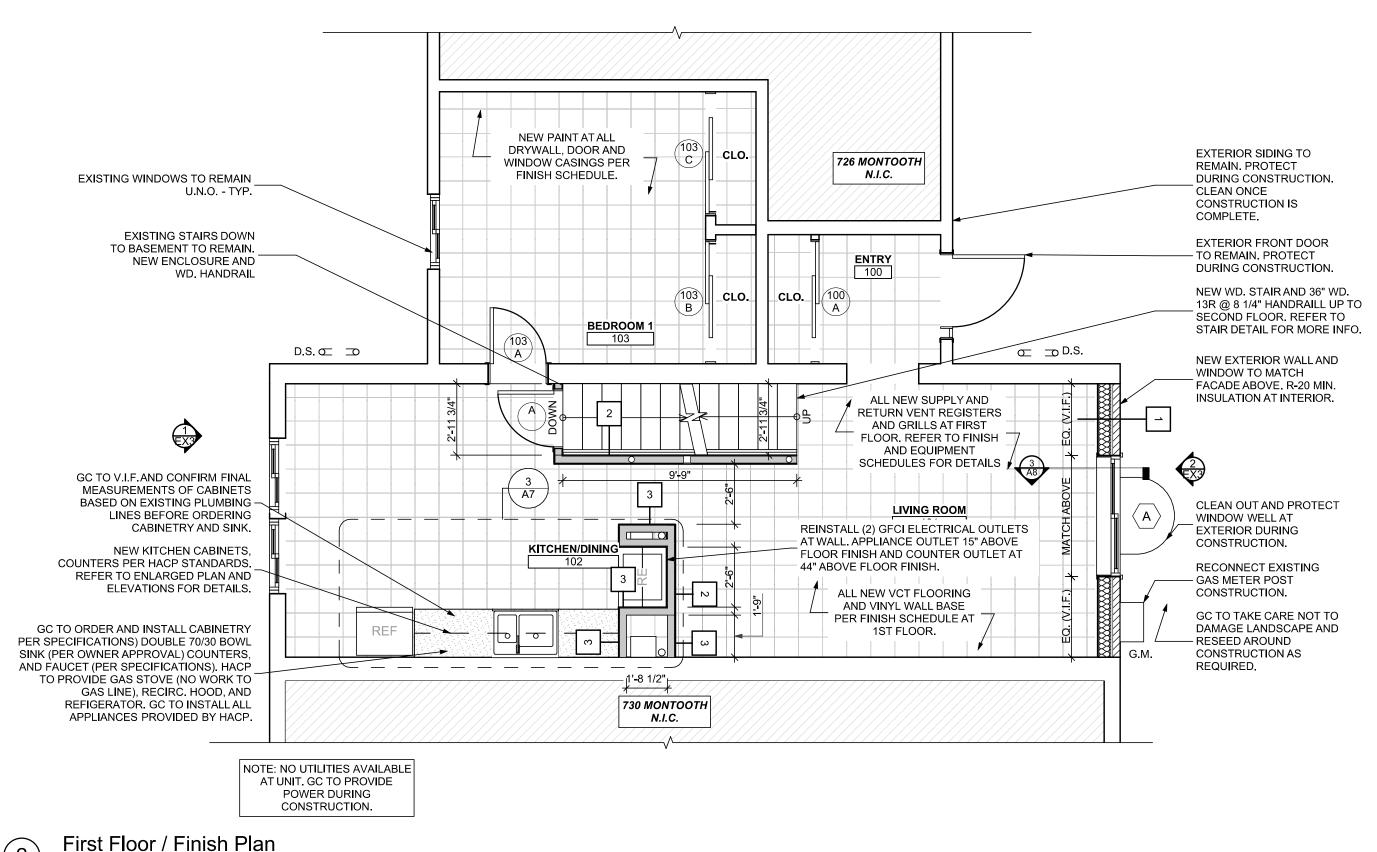
Basement Demo Plan, First Floor Demolition Plan, Second Floor Demolition Plan



PLAN NORTH Sheet No.

A3





FLOOR PLAN LEGEND

NEW WALL NEW WALL WITH SOUND BATT EXISTING WALL TO REMAIN

ROOM NAME AND NUMBER DOOR AND DOOR NUMBER

X — WALL TYPE

GENERAL FLOOR PLAN NOTES

- CONTRACTOR TO FIELD VERIFY ANY AND ALL CONDITIONS & DIMENSIONS OF WORK AREAS BEFORE BEGINNING WORK. REPORT ANY DISCREPANCIES TO THE ARCHITECT. THE FINISH FLOOR OF THIS PROJECT IS IDENTIFIED AT 0'-0" IN THIS SET OF DRAWINGS.
- 3. ALIGN NEW WALL CONSTRUCTION WITH EXISTING WALL CONSTRUCTION. FINISH NEW PARTITION SMOOTH TO FORM A SEAMLESS JOINT BETWEEN NEW & EXISTING PARTITIONS. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER GRAPHIC REPRESENTATIONS. NOTIFY ARCHITECT IN
- 5. DIMENSIONS SHOWN INDICATE FINISHED FACE TO FINISHED FACE, UNLESS NOTED OTHERWISE.

WRITING OF ANY INCONSISTENT OR MISSING

HACP FLOOR PLAN NOTES

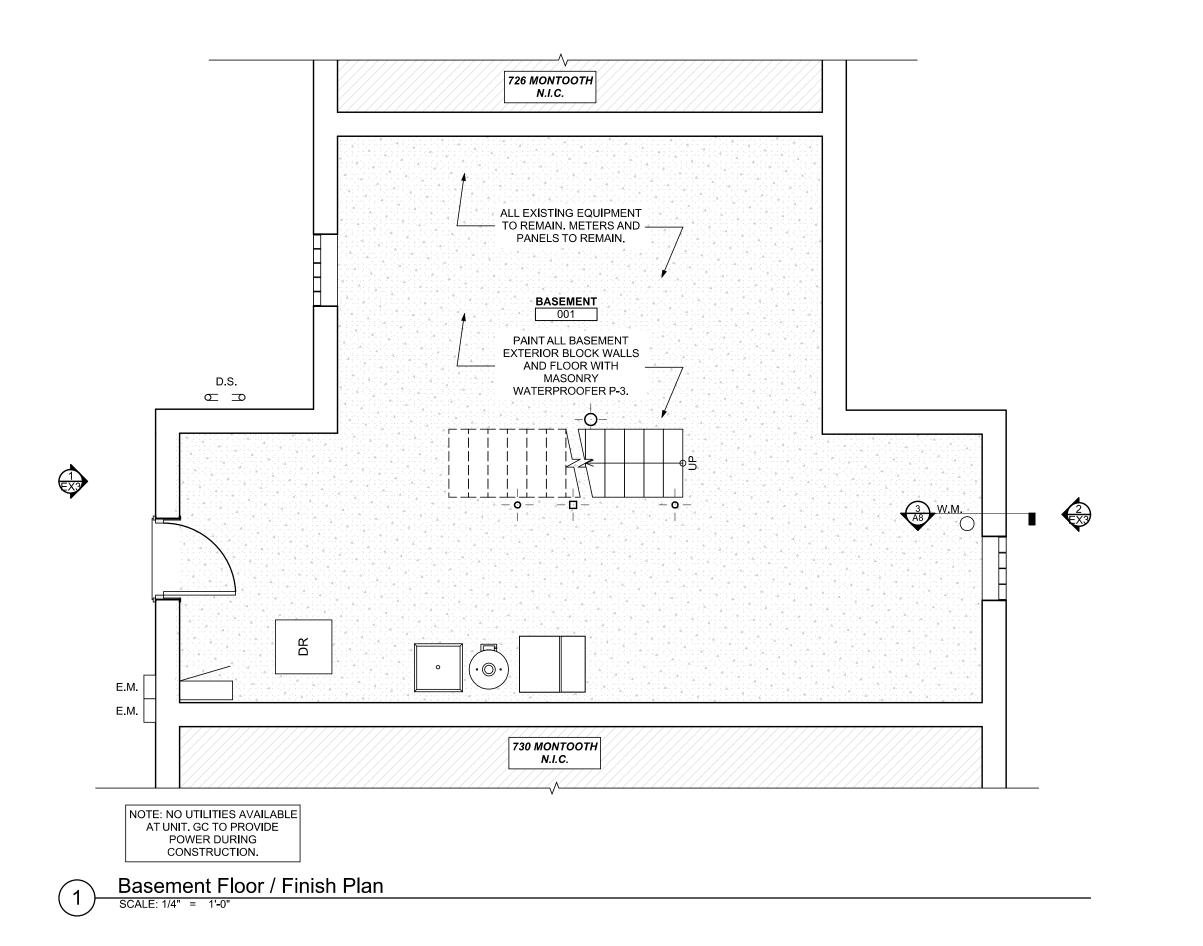
DIMENSIONS.

- COMPLETELY REPLACE EXISTING FLOORING WITH NEW WATERPROOF VCT FLOORING (U.N.O.) AT ALL RESIDENTIAL LIVING, DINING, KITCHEN, BEDROOM, HALLWAYS AND BATHROOMS, REFER TO SPECIFICATIONS FOR MORE DETAILS.
- ALL WINDOW BLINDS TO BE REPLACED. REFER TO SPECIFICATOINS FOR DETAILS.
- ALL WINDOW SCREENS TO BE REPLACED WITH CHILDPROOF SCREENS. REFER TO SPECIFICATIONS FOR MORE DETAILS.
- COMPLETELY REMOVE (U.N.O.) AND REPLACE ALL EXISTING KITCHEN CABINETS, CABINET HARDWARE AND COUNTERTOPS. NEW CABINET AND COUNTER LAYOUT PER PLANS WITH FINISHES PER THE
- . ALL LIGHTING TO BE REPLACED WITH LED BULBS. EXISTING FIXTURE COVERS TO REMAIN U.N.O. PER LIGHTING SCHEDULE.
- ALL EXISTING KEYS AND CORES TO BE RETURNED TO HACP. NEW KEYS AND CORES TO BE ADDED AT ALL PROPERTIES.
- 2. EXISTING DUCTWORK TO BE CLEANED OF DUST AND DEBRIS AFTER CONSTRUCTION HAS FINISHED.
- REPLACE ALL EXISTING THERMOSTATS WITH NEW PER SPECIFICATIONS.

Roof Plan

Second Floor / Finish Plan

NEW PAINT AT ALL CLO. DRYWALL, DOOR AND 726 MONTOOTH WINDOW CASINGS PER N.I.C. FINISH SCHEDULE. EXISTING WINDOWS TO REMAIN U.N.O. - TYP. NEW WD. STAIR AND 36" WD. _ 13R @ 8 1/4" HANDRAILL UP TO SECOND FLOOR REFER TO STAIR DETAIL FOR MORE INFO. ALL NEW SUPPLY AND 3 A8 RETURN VENT REGISTERS -HALLWAY AND GRILLS AT 2ND FLOOR, REFER TO FINISH AND EQUIPMENT SCHEDULES FOR DETAILS ALL NEW VCT FLOORING AND VINYL WALL BASE PER FINISH SCHEDULE AT 2ND FLOOR. 730 MONTOOTH N.I.C. EXISTING FIXUTRES TO NOTE: NO UTILITIES AVAILABLE AT UNIT. GC TO PROVIDE POWER DURING CONSTRUCTION.



Fukui Architects Pc

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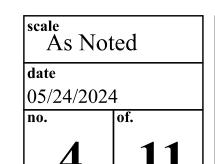
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drawing title

Floor Plan Legend, Basement Floor / Finish Plan, First Floor / Finish Plan, Second Floor / Finish Plan, Roof Plan



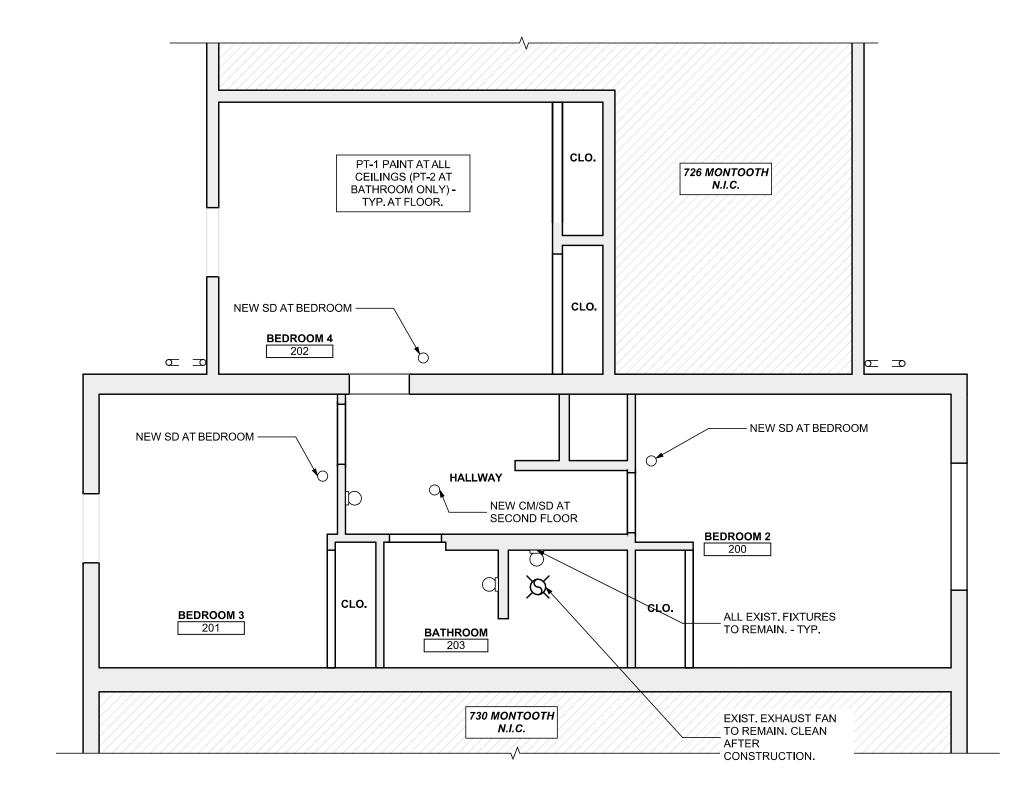
PLAN

NORTH

Sheet No.

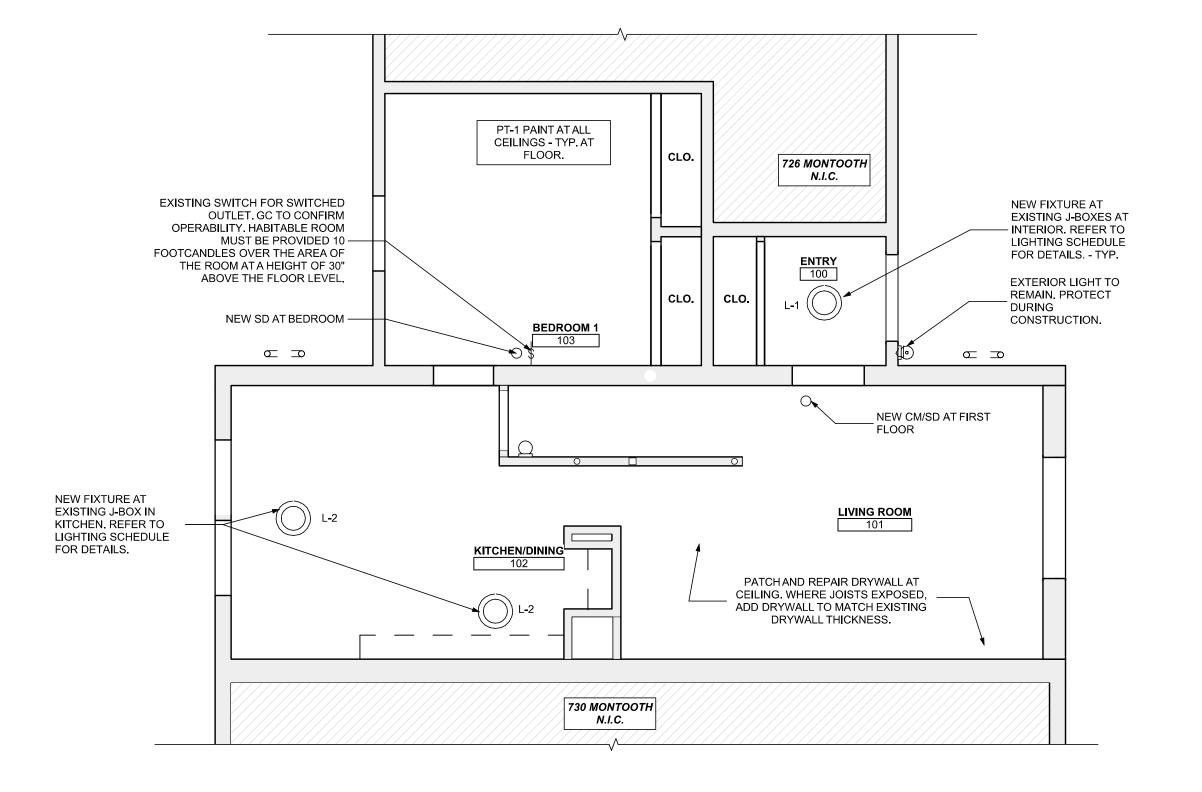


ALL EXISTING LAMPS AND EXHAUST FANS TO BE REMOVED DURING CONSTRUCTION, PROTECTED, AND REINSTALLED ONCE CONSTRUCTION IS COMPLETE.



Second Floor Reflected Ceiling Plan

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



First Floor Reflected Ceiling Plan

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

LIGHTING SCHEDULE

MANUFACTURER/MODEL

SYLVANIA 11" 15W LED PUFF LIGHT, 4000K

LIVING/KITCHEN ETI 16" 22W LOW PROFIE LED PUFF, 4000K

LOCATION

DEMOLITION PLAN LEGEND

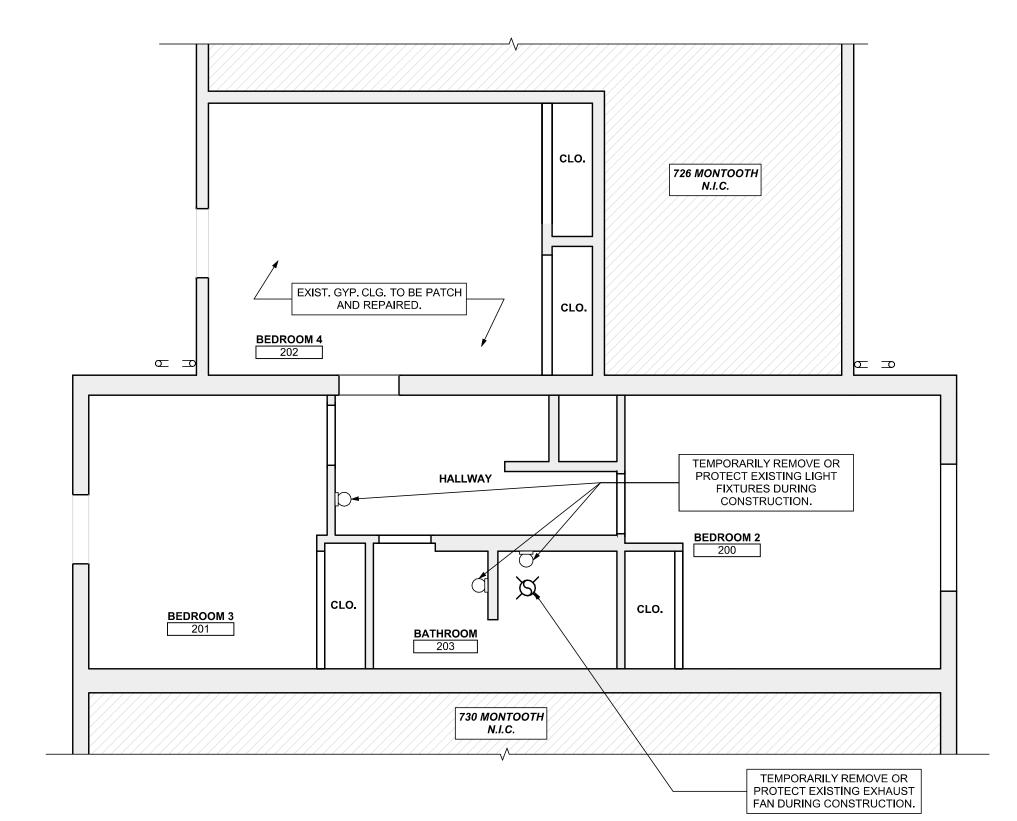
HATCHED AREA.

NOT IN CONTRACT

DEMOLISH EXISTING CEILING FINISH IN

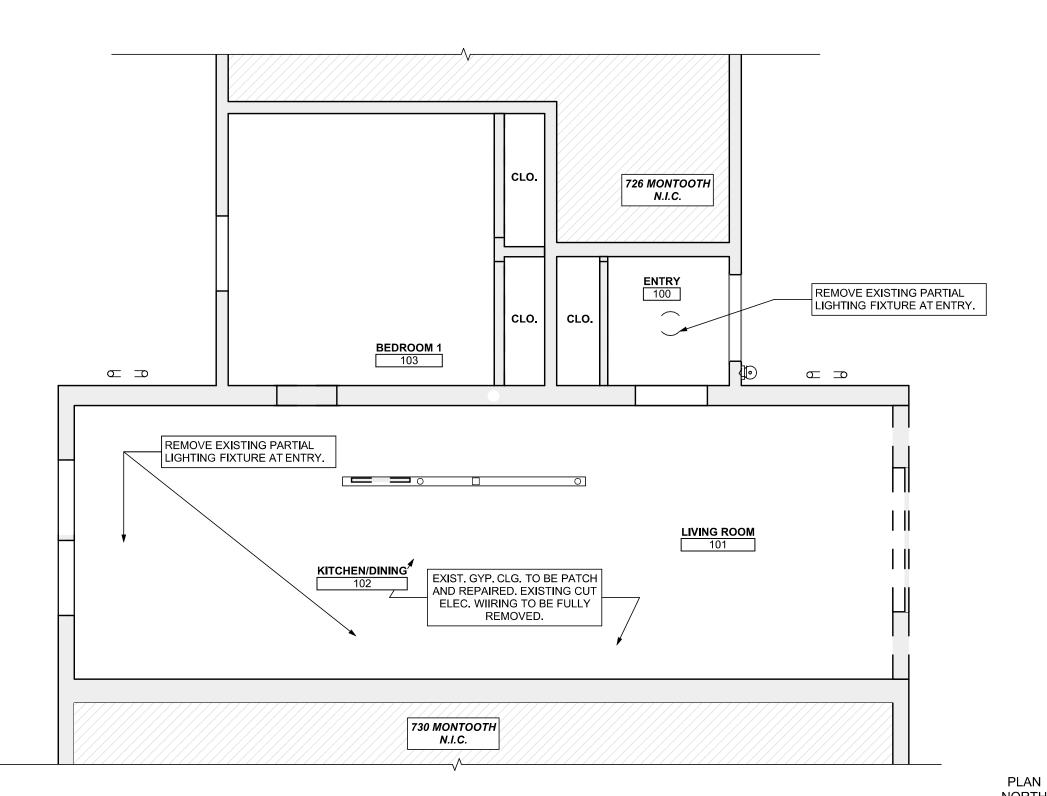
SYMBOL

TAG



Second Floor Reflected Ceiling Demolition Plan

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

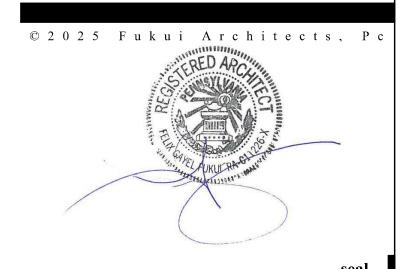


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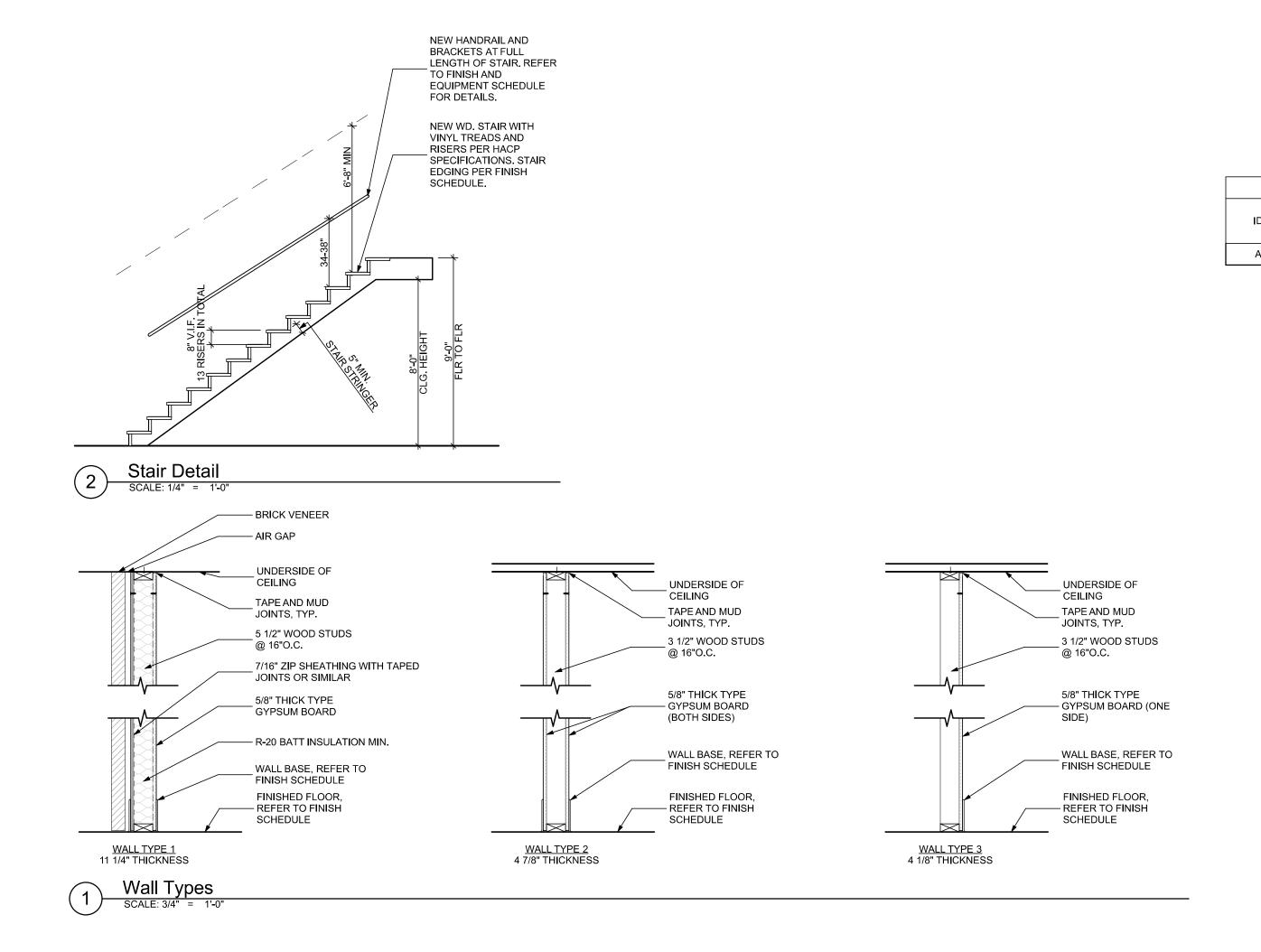
drawing title

First Floor Reflected Ceiling Demolition Plan, Second Floor Reflected Ceiling Demolition Plan, First Floor Reflected Ceiling Plan, Second Floor Reflected Ceiling Plan

	scale As Not	ed				
	date					
	05/24/2024					
I	no.	of.				

Sheet No.

A5



GC TO PROVIDE SAMPLES OF ALL FINISHES, FLOORING, PAINT, AND COUNTER FOR OWNER AND ARCHITECT APPROVAL.

STANDARD FINISHES FINISHES ARE TO BE SELECTED BY THE OWNER. INTERIOR WALL & CEILING FINISH SHALL BE TESTED AND ACCORDED INDICES FOR FLAME SPREAD AND SMOKE DEVELOPMENT IN ACCORDANCE WITH ASTM E 84 OR UL 723. FLAME SPREAD INDEX SHALL NOT BE GREATER THAN 0-25 AT EXITS AND PASSWAYS AND 26-75 AT ROOMS AND ENCLOSED SPACES. SMOKE DEVELOPMENT INDEX SHALL RANGE FROM 0-450 AND 25 OR LESS AT EXITS AND CORRIDORS. **VCT FLOORING:** VCT-1 MANUFACTURER: ARMSTRONG P-1 MANUFACTURER: PPG MANUFACTURER NO.: 51830 MANUFACTURER NO.: PZ S-HIDE COLOR: TAN INT. LX SGL WHPB 6-500 B500 COLOR: HOUSING ANTIQUE WHTE SIZE: 12" x 12" x .125" COMMENT: FLAT FINISH - STANDARD

MILDEW RESISTANT IN BATHROOMS COLOR: BEIGE COMMENTS: 4" x 1/8" x 48" COVE **KITCHEN COUNTER:** C-1 MANUFACTURER: FORMICA MANUFACTURER NO.: 7732 CNS BR S PCNON COLOR: BUTTERUM

B-1 MANUFACTURER: JOHNSONITE

MANUFACTURER NO.: DC49

COVE BASE:

P-3 MANUFACTURER: KILZ MANUFACTURER NO.: 239041 COLOR: N/A COMMENT: BASEMENT & MASONRY WATERPROOFER INTERIOR/EXTERIOR. MILDEW RESISTANT FINISH. COMMENTS: GRADE 12

P-2 MANUFACTURER: ZINSSER

COLOR: ANTIQUE WHTE

MANUFACTURER NO.: 02704

COMMENT: SATIN FINISH MOLD AND

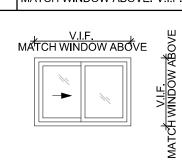
STANDARD EQUIPMENT AND FIXTURES ALL EQUIPMENT LISTED HERE TO BE PROCURED BY GC. KITHEN APPLIANCES TO BE PROVIDED BY HACP AND INSTALLED BY GC. **HANDRAIL BRACKET:** KNOB (PRIVACY): HB-1 MANUFACTURER: GENERIC K-1 MANUFACTURER: KWIKSET TYLO MANUFACTURER NO.: 805800 MANUFACTURER NO.: 93001-923 COLOR: BRASS COLOR: POLISHED BRASS COMMENTS: HD SUPPLY. TYPE: PRIVACY HANDRAILS TO BE GENERIC 1 1/2" WOOD @ LENGTH OF STAIR. KNOB (PASSAGE): K-2 MANUFACTURER: KWIKSET TYLO MANUFACTURER NO.: 92001-564 H-1 MANUFACTURER: GENERIC COLOR: POLISH BRASS MANUFACTURER NO.: 894250 TYPE: PASSAGE COLOR: SATIN BRASS COMMENTS: 3 1/2" RESIDENTIAL PLAN BEARING DOOR HINGE HD SUPPLY **KITCHEN CABINETS: KITCHEN SINK FAUCET:** C-1 MANUFACTURER: MERILLAT BASICS F-1 MANUFACTURER: MOEN MANUFACTURER NO.: MANUFACTURER NO.: 67425 CNS BR S PCNON COLOR: BEIGE COLOR: CHROME COMMENTS: CHATEAU KITCHEN COMMENTS: V.I.F. FINAL SIZE OF FAUCET, SINGLE HANDLE, 1.5 GPM CABIENTS. MERILLAT CLASSICS, COLLINS PECAN FINISH BURCH. **KITCHEN SINK BOWL:** FIXED PANEL AT SINK. SB-1 MANUFACTURER: TBD **STAIR EDGING:** MANUFACTURER NO.: TBD COLOR: STAINLESS STEEL SE-1 MANUFACTURER: MD COMMENTS: PURCHASED DURING MANUFACTURER NO.: 78022 CABINET ORDER, CONFIRM WITH COLOR: SILVER HACP ON FINAL BOWL SIZE. TO MATCH COMMENTS: STAIR WIDTH LENGTH EXISTING PLUMBING DRAINS. **SUPPLY DIFFUSERS: RETURN GRILLES:** SD-1 MANUFACTURER: EVERBILT (OR EQ.) RG-1 MANUFACTURER: EVERBILT (OR EQ.) MANUFACTURER NO.: -MANUFACTURER NO.: -COLOR: WHITE COLOR: WHITE COMMENTS: STEEL RETURN AIR COMMENTS: STEEL BASEBOARD

DIFFUSER. CONFIRM FINAL SIZE OF

BASEBAORD TO MATCH EXISTING

VENT OPENINGS.

	WINDOW SCHEDULE												
D	TYPE -	SIZE		HEAD HEIGHT		EGRESS DIMENSIONS			LINITEL	VENTING	TEMPERED	NOTES	
		WIDTH	HEIGHT	T HEAD HEIGHT	SILL HEIGHT	EGRESS WIDTH	EGRESS HEIGHT	FRAME MATERIAL	LINTEL	VENTING	TEMPERED	NOTES	
4	ı	5'-0"	3'-10"	7'-6"	3'-8"	N/A	N/A	ALUMINUM CLAD WOOD		×		MATCH WINDOW ABOVE. V.I.F.	



W01

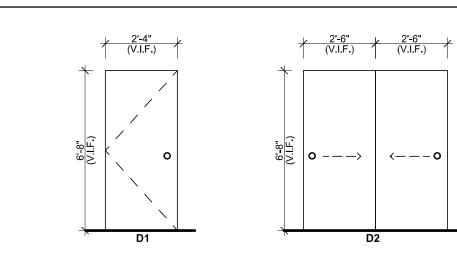
FILTER GRILLE. CONFIRM FINAL SIZE

OPENING IN FLOOR.

OF GRILLE TO MATCH EXISTING VENT

DOOR SCHEDULE LEAF FRAME DOOR TYPE DOOR NUMBER ROOM NOTES MATERIAL COLOR THICKNESS GLAZING MATERIAL COLOR 5'-0"×6'-8" PT-1 100 A **ENTRY** D2 NONE HCW 1 3/4" WOOD PT-1 SLIDING DOOR VIF DOOR OPENING FOR FINAL SIZE 2'-4"×6'-8" PT-1 KITCHEN NONE 1 3/4" WOOD PT-1 PASSAGE K-2 VIF DOOR OPENING FOR FINAL SIZE 102 A D1 HCW 2'-4"×6'-8" NONE PT-1 1 3/4" VIF DOOR OPENING FOR FINAL SIZE 103 A BEDROOM 1 D1 HCW WOOD PT-1 PRIVACY K-1 5'-0"×6'-8" PT-1 103 B D2 NONE 1 3/4" WOOD PT-1 SLIDING DOOR VIF DOOR OPENING FOR FINAL SIZE BEDROOM 1 HCW 103 C BEDROOM 1 5'-0"×6'-8" D2 NONE HCW PT-1 1 3/4" WOOD PT-1 SLIDING DOOR VIF DOOR OPENING FOR FINAL SIZE

ABBREVIATIONS: HCW - HOLLOW CORE WOOD



Fukui Architects Pc

205 Ross Street Pittsburgh, Pennsylvania 15219 ph 412.281.6001 fx 412.281.6002



ISSUED FOR BID & CONSTRUCTION

general notes

Any conflicts in the drawings or between new and existing construction shall be referred to the Architect.

- 2. Contractor shall verify all dimensions and existing conditions in the field and shall advise Fukui Architects, **Pc** of any discrepancies between, additions to, deletions from, or alterations to any and all conditions prior to proceeding with any phase of work. Do not scale
- 3. All work shall be installed in accordance with applicable codes and regulations.
- 4. Contractor shall be responsible for the patching, repairing, and preparations of all existing floor, wall, and ceiling surfaces as required to receive scheduled finishes.
- 5. All items shown on drawings are finished construction assemblies. Contractor shall provide and install all material required for finished assemblies.
- **6.** All reports, plans, specifications, computer files, field data, notices, and other documents and instruments prepared by the Architect as instruments of service shall remain the property of the Architect. The Architect shall retain all common law statutory, and other reserved rights, including the copyright thereto. revisions

SUBMIT FOR PERMIT 6.19.2024

PLI REVISIONS 7.31.2024

PLI REVISIONS 8.22.2024

SUBMIT FOR BID AND IFC 9.18.2024

RE-SUBMIT FOR BID AND IFC 6.19.2025

project title

Owner:

HACP 412 Boulevard of the Allies Pittsburgh,PA,15219

Client:

HACP

412 Boulevard of the Allies Pittsburgh, PA 15219

Project Location:

728 Montooth St. Rehabilitation 728 Montooth St. Pittsburgh, PA 15210

drawing title

Wall Types, Stair Detail, Door Schedule (With Existing), Door Types, Window Schedule, Window Types, Finish Matrix

As Noted 05/24/2024

0

Sheet No.

Ab Project #2364

Fukui Architects Pc 205 Ross Street Pittsburgh, Pennsylvania 15219 ph 412.281.6001 fx 412.281.6002 ISSUED FOR BID & CONSTRUCTION general notes Any conflicts in the drawings or between new and existing construction shall be referred to the Architect. 2. Contractor shall verify all dimensions and existing conditions in the field and shall advise **Fukui Architects**, 3. All work shall be installed in accordance with applicable codes and regulations. **4.** Contractor shall be responsible for the patching, repairing, and preparations of all existing floor, wall, and ceiling surfaces as required to receive scheduled finishes. NEW RECIRC. 5. All items shown on drawings are finished construction HOOD SUPPLIED assemblies. Contractor shall provide and install all BY HACP. material required for finished assemblies. **6.** All reports, plans, specifications, computer files, field G.F.C.I. RELOCATE GFI data, notices, and other documents and instruments prepared by the Architect as instruments of service shall remain the property of the Architect. The Architect shall TO BACK WALL GC TO INSTALL NEW 44" A.F.F. G.F.C.I GFCI OUTLETS retain all common law statutory, and other reserved rights, including the copyright thereto. NEW REFIGERATOR revisions SUPPLIED BY HACP AND INSTALLED BY SUBMIT FOR PERMIT 6.19.2024 NEW RES. GAS STOVE SINK AND FAUCET SUPPLIED BY GC 1 PLI REVISIONS 7.31.2024 PROVIDED BY PER FF&E HACP. PLI REVISIONS 8.22.2024 SCHEDULE. SUBMIT FOR BID AND IFC 9.18.2024 RE-SUBMIT FOR BID AND IFC 6.19.2025 project title Owner: Kitchen Interior Elevation Kitchen Interior Elevation HACP FX: FIXED PANEL AS: ADJUSTABLE SHELF DR: DRAWER DWR: PULL OUT DRAWER GLIDE FX: FIXED PANEL AS: ADJUSTABLE SHELF DR: DRAWER DWR: PULL OUT DRAWER GLIDE 412 Boulevard of the Allies Pittsburgh,PA,15219 **Client:** HACP 412 Boulevard of the Allies Pittsburgh, PA 15219 HACP TO PROVIDE STOVE, NOTE: GC TO VERIFY FINAL CABINET DIMENSIONS BASED ON EXISTING GAS, RECIRCULATING HOOD, AND REFRIGERATOR. GC TO INSTALL **Project Location:** ELEC, AND PLUMBING ROUGH INS. EQUIPMENT. 728 Montooth St. Rehabilitation 728 Montooth St. PROVIDE PROPER 2X4 BLOCKING IN WALL FOR ALL UPPER CABINETRY. Pittsburgh, PA 15210 drawing title Kitchen Interior Elevation, Enlarged DOUBLE DOOR UPPER DOUBLE DOOR UPPER DOUBLE DOOR UPPER Plan: Kitchen CABINET WITH CABINET WITH CABINET WITH ADJUSTABLE SHELVES ADJUSTABLE SHELVES ADJUSTABLE SHELVES DOUBLE DOOR BASE CABINET WITH ADJUSTABLE SHELVES DOUBLE DOOR BASE DOUBLE DOOR BASE CABINET WITH CABINET WITH ADJUSTABLE SHELVES ADJUSTABLE SHELVES Sheet No. As Noted 05/24/2024 SCALE: 3/4" = 1'-0" Project #2364

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Pc of any discrepancies between, additions to, deletions from, or alterations to any and all conditions prior to proceeding with any phase of work. Do not scale

Fukui Architects Pc 205 Ross Street Pittsburgh, Pennsylvania 15219 ph 412.281.6001 fx 412.281.6002 © 2025 Fukui Architects, Pc ISSUED FOR BID & CONSTRUCTION general notes Any conflicts in the drawings or between new and existing construction shall be referred to the Architect. 2. Contractor shall verify all dimensions and existing conditions in the field and shall advise Fukui Architects, Pc of any discrepancies between, additions to, deletions from, or alterations to any and all conditions prior to proceeding with any phase of work. **Do not scale** 3. All work shall be installed in accordance with applicable codes and regulations. **4.** Contractor shall be responsible for the patching, repairing, and preparations of all existing floor, wall, and ceiling surfaces as required to receive scheduled finishes. FIN. SECOND FLR 9'-0" **CLEAN EXISTING** 5. All items shown on drawings are finished construction - GUTTERS AND DOWNSPOUT - TYP. assemblies. Contractor shall provide and install all material required for finished assemblies. **6.** All reports, plans, specifications, computer files, field +16'-6" 2nd Floor Ceiling data, notices, and other documents and instruments prepared by the Architect as instruments of service shall remain the property of the Architect. The Architect shall retain all common law statutory, and other reserved rights, including the copyright thereto. CLEAN EXISTING revisions GUTTERS AND -2X6 WALL WITH DOWNSPOUT - TYP. R-20 MIN. INSULATION. 5/8" SUBMIT FOR PERMIT 6.19.2024 GYP. AT INTERIOR. 1 PLI REVISIONS 7.31.2024 BRICK SILL TO -MATCH WINDOWS PLI REVISIONS 8.22.2024 AT FRONT FACADE REPOINT SUBMIT FOR BID AND IFC 9.18.2024 -HEAD INSULATION EXISTING 93 SF -FT OF BRICK. RE-SUBMIT FOR BID AND IFC 6.19.2025 NEW CORROSION **NEW MASONRY** RESISTANT STEEL ANGLE LINTEL. 4X3X1/4 IMBEDDED 6" TOTAL IN MASONRY. FLAS BELOW VENEER TO MATCH — BRICK ABOVE LINTEL AS REQ'D. project title EXISTING EXTERIOR LIGHT. PROTECT Owner: CONSTRUCTION. HACP 412 Boulevard of the Allies **EXISTING EXTERIOR** ENTRY DOOR. PROTECT DURING Pittsburgh,PA,15219 SLIDING TYPE -VINLY WINDOW. U-CONSTRUCTION. VALUE .30 MAX. **Client:** EXISTING MAILBOX. 1X6 FLAT STOCK - PROTECT DURING HACP SPRUCE PINE FIR CONSTRUCTION. REPOINT EXISTING 337 SQ FT OF BRICK. -WOOD SILL WITH 412 Boulevard of the Allies APRON. PAINT TO MATCH WALL. Pittsburgh, PA 15219 ±0" 1st Floor / Grade BRICK SILL TO MATCH WINDOWS AT FRONT FACADE EXISTING GAS METER. **Project Location:** REINSTALL AFTER CONSTRUCTION OF GC TO CLEAN BRICK VENEER TIED INTO 728 Montooth St. Rehabilitation - EXISTING -SHEATHING. 24" MAX. SPACING. 1 NEW 2X6 WD. WALL WINDOW WELL. ALL EXIST. DOORS AND PER EVERY 3.5 SF OF WALL AREA. 728 Montooth St. WINDOWS AND VENEER. - ASSOCIATED EXTERIOR CASING TO Pittsburgh, PA 15210 1" AIR SPACE AND 7/16" ZIP NEW WINDOW WITH MASONRY SILL BELOW SYSTEM (OR EQUAL) TAPED. REMAIN U.N.O. TO MATCH WINDOW drawing title ABOVE. REFER TO EXISTING ELEC. WINDOW SCHEDULE METERS TO REMAIN FOR DETAILS. West Elevation, East Elevation, Wall Section FIN. FIRST FLR 0'-0" Ā.F.F. Sheet No. As Noted Wall Section SCALE: 1" = 1'-0" East Elevation SCALE: 3/8" = 1'-0" West Elevation SCALE: 3/8" = 1'-0" 05/24/2024 **A8** 8 Project #2364

THE USE OF THESE DOCUMENTS IS RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY WERE PREPARED. RE-USE OR REPRODUCTION OF THE DOCUMENTS (IN WHOLE OR IN PART), FOR ANY OTHER PURPOSE IS PROHIBITED. TITLE TO THESE REMAINS WITH FUKUI ARCHITECTS P.C. (FAR). VISUAL CONTACT WITH THE DOCUMENTS IS PRIMA FACIE EVIDENCE OF THE ACCEPTANCE OF THESE RESTRICTIONS.

DIVISION 1 - GENERAL CONDITIONS

APPLICABILITY OF HUD-5370 GENERAL CONDITIONS FOR CONSTRUCTION CONTRACTS- PUBLIC HOUSING PROGRAMS THE HUD-5370, GENERAL CONDITIONS, CURRENT EDITION, SHALL APPLY TO THE PROJECT. A COPY OF THE GENERAL CONDITIONS IS AVAILABLE AT THE HACP

MULTIPLE CONTRACT 1. COORDINATION

GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION BETWEEN THE GENERAL CONSTRUCTION CONTRACT, PLUMBING CONTRACT, HVAC CONTRACT, ELECTRICAL CONTRACT, AND ADDITIONAL CONTRACTS APPLICABLE IN THE CONSTRUCTION DOCUMENTS.

2. GENERAL REQUIREMENTS OF CONTRACTS UNLESS THE AGREEMENT CONTAINS A MORE SPECIFIC DESCRIPTION OF THE WORK OF EACH CONTRACT. REQUIREMENTS INDICATED ON DRAWINGS AND IN SPECIFICATION SECTIONS DETERMINE WHICH CONTRACT INCLUDES A SPECIFIC **ELEMENT OF PROJECT**

SCOPE OF WORK RESPONSIBILITY

GENERAL CONSTRUCTION CONTRACT
WORK OF THE GENERAL CONSTRUCTION CONTRACT INCLUDES, BUT IS NOT LIMITED TO, THE REMAINING WORK NOT IDENTIFIED AS WORK UNDER OTHER CONTRACTS. WORK OF THE GENERAL CONTRACT INCLUDES, BUT IS NOT LIMITED TO, PLUMBING FIXURES AND APPLIANCES (INCLUDING BUT NOT LIMITED TO SINKS, TUBS, SHOWER ENCLOSURES, SINK BASES, FAUCETS AND DRAIN ASSEMBLIES ETC) PLUMBING CONNECTIONS TO FOUIPMENT PLUMBING CONNECTIONS TO EXISTING SYSTEMS AND TEMPORARY FACILITIES, WORK OF THE GENERAL CONTRACT INCLUDES, BUT IS NOT LIMITED TO, SUPPLYING AND INSTALLING ALL MECHANICAL EQUIPMENT AND CONNECTIONS TO EQUIPMENT. MECHANICAL EQUIPMENT INCLUDES, BUT IS NOT LIMITED TO: FURNACES AND CONDENSERS, KITCHEN AND BATH EXHAUST FANS, THERMOSTATS AND CONTROLS, ETC. WORK OF THE GENERAL CONTRACT INCLUDES BUT IS NOT LIMITED TO SUPPLYING AND INSTALLING ELECTRICAL EQUIPMENT AN FIXTURES INCLUDING BUT NOT LIMITED TO: (INTERIOR AND EXTERIOR LIGHT FIXTURES, SMOKE AND CO DETECTORS, COMPLETE CIRCUIT BREAKER PANELS INCLUDING ALL BREAKERS AND LABELING, ELECTRICAL SERVICE ENTRANCE), WIRING, AND ELECTRICAL AND LOW VOLTAGE CONNECTIONS TO EQUIPMENT. ELECTRICAL CONNECTIONS TO EXISTING SYSTEMS AND TEMPORARY FACILITIES.

<u>VISITING THE SITE</u> VISIT THE PRESENT INSTALLATION TO ASCERTAIN THE EXISTING SITE CONDITIONS. TO DETERMINE THE LOCATION OF ANY EXISTING ELECTRICAL PLUMBING, OR HVAC EQUIPMENT AND TO NOTE THE CONDITIONS OF THE EXISTING BUILDING AS IT PERTAINS TO THE REQUIRED CONTRACT SCOPE MAKE ALL VISITS TO THE SITE DURING THE NORMAL WORKDAY AND WEEK. SCHEDULE VISITS IN ADVANCE WITH THE HACP'S REPRESENTATIVE.

SECURE AND VERIFY ALL DIMENSIONS AT THE SITE.

PRE-CONSTRUCTION CONFERENCE AND NOTICE TO PROCEED
(A)WITHIN TEN CALENDAR DAYS OF CONTRACT EXECUTION, AND PRIOR TO THE COMMENCEMENT OF WORK THE CONTRACTOR SHALL ATTEND A PRECONSTRUCTION CONFERENCE WITH REPRESENTATIVES OF THE PHA. ITS ARCHITECT AND OTHER INTERESTED PARTIES CONVENED BY THE PHA. THE CONFERENCE WILL SERVE TO ACQUAINT THE PARTICIPANTS WITH THE GENERAL PLAN OF THE CONSTRUCTION OPERATION AND ALL OTHER REQUIREMENTS OF THE CONTRACT. THE PHA WILL PROVIDE THE CONTRACTOR WITH THEDATE. TIME. AND PLACE OF THE CONFERENCE. (B)THE CONTRACTOR SHALL BEGIN WORK UPON RECEIPT OF A WRITTEN NOTICE O PROCEED FROM THE CONTRACTING OFFICER OR DESIGNEE. THE CONTRACTOR SHALL NOT BEGIN WORK PRIOR TO RECEIVING SUCH NOTICE.

CONSTRUCTION PROGRESS

(A) THE CONTRACTOR SHALL, WITHIN FIVE DAYS AFTER THE WORK COMMENCES ON THE CONTRACT OR ANOTHER PERIOD OF TIME DETERMINED BY THE CONTRACTING OFFICER PREPARE AND SUBMIT TO THE CONTRACTING OFFICER FOR APPROVAL THREE COPIES OF A PRACTICABLE SCHEDULE SHOWING THE ORDER IN WHICH THE CONTRACTOR PROPOSES TO PERFORM THE WORK, AND THE DATES ON WHICH THE CONTRACTOR CONTEMPLATES STARTING AND COMPLETING THE SEVERAL SALIENT FEATURES OF THE WORK(INCLUDING ACQUIRING LABOR, MATERIALS, AND EQUIPMENT), THE SCHEDULE SHALL BE IN THE FORM OF A PROGRESS CHART OF SUITABLE SCALE TO INDICATE APPROPRIATELY THE PERCENTAGE OF WORK SCHEDULED FOR COMPLETION BY ANY GIVEN DATE DURING THE PERIOD. IF THE CONTRACTOR FAILS TO SUBMIT A SCHEDULE WITHIN THE TIME PRESCRIBED, THE CONTRACTING OFFICER MAY WITHHOLD APPROVAL OF PROGRESS PAYMENTS OR TAKE OTHER REMEDIES UNDER THE CONTRACT UNTIL THE CONTRACTOR SUBMITS THE REQUIRED SCHEDULE.

(B) THE CONTRACTOR SHALL ENTER THE ACTUAL PROGRESS ON THE CHART AS REQUIRED BY THE CONTRACTING OFFICER, AND IMMEDIATELY DELIVER THREE COPIES OF THE ANNOTATED SCHEDULE TO THE CONTRACTING OFFICER. IF THE CONTRACTING OFFICER DETERMINES. UPON THE BASIS OF INSPECTION CONDUCTED PURSUANT TO THE CLAUSE ENTITLED INSPECTION AND ACCEPTANCE OF CONSTRUCTION HEREIN THAT THE CONTRACTOR IS NOT MEETING THE APPROVED SCHEDULE. THE CONTRACTOR SHALL TAKE STEPS NECESSARY TO IMPROVE ITS PROGRESS. INCLUDING THOSE THAT MAY BE REQUIRED BY THE CONTRACTING OFFICER WITHOUT ADDITIONAL COST TO THE PHA. IN THIS CIRCUMSTANCE, THE CONTRACTING OFFICER MAY REQUIRE THE CONTRACTOR TO INCREASE THE NUMBER OF SHIFTS, OVERTIME OPERATIONS, DAYS OF WORK, AND/OR THE AMOUNT OF CONSTRUCTION PLANT, AND TO SUBMIT FOR APPROVAL ANY SUPPLEMENTARY SCHEDULE OR SCHEDULES IN CHART FORM AS THE CONTRACTING OFFICER DEFMS NECESSARY TO DEMONSTRATE HOW THE APPROVED RATE OF PROGRESS WILL BE REGAINED. (C) FAILURE OF THE CONTRACTOR TO COMPLY WITH THE REQUIREMENTSOF THE CONTRACTING OFFICER UNDER THIS CLAUSE SHALL BE GROUNDS FOR A DETERMINATION BY THE CONTRACTING OFFICER THAT THE CONTRACTOR IS NOT PROSECUTING THE WORK WITH SUFFICIENT DILIGENCE TO ENSURE COMPLETION WITHIN THE TIME SPECIFIED IN THE CONTRACT UPON MAKING THIS DETERMINATION. THE CONTRACTING OFFICER MAY TERMINATE THE CONTRACTOR'S RIGHT TO PROCEED WITH THE WORK OR ANY SEPARABLE PART OF IT, IN ACCORDANCE WITH THE DEFAULT CLAUSE OF THIS CONTRACT.

SITE INVESTIGATION AND CONDITIONS AFFECTING THE WORK (A) THE CONTRACTOR ACKNOWLEDGES THAT IT HAS TAKEN STEPS

REASONABLY NECESSARY TO ASCERTAIN THE NATURE AND LOCATION OF THE WORK, AND THAT IT HAS INVESTIGATED AND SATISFIED ITSELF AS TO THE GENERAL AND LOCAL CONDITIONS WHICH CAN AFFECT THE WORK OR ITS COST INCLUDING BUT NOT LIMITED TO, (1) CONDITIONS BEARING UPON FRANSPORTATION, DISPOSAL, HANDLING, AND STORAGE OF MATERIALS; (2) THE AVAILABILITY OF LABOR, WATER, ELECTRIC POWER, AND ROADS; (3) UNCERTAINTIES OF WEATHER, RIVER STAGES, TIDES, OR SIMILAR PHYSICAL CONDITIONS AT THE SITE: (4) THE CONFORMATION AND CONDITIONS OF THE GROUND: AND (5) THE CHARACTER OF EQUIPMENT AND FACILITIES NEEDED PRELIMINARY TO AND DURING WORK PERFORMANCE. THE CONTRACTOR ALSO ACKNOWLEDGES THAT IT HAS SATISFIED ITSELF AS TO THE CHARACTER QUALITY, AND QUANTITY OF SURFACE AND SUBSURFACE MATERIALS OR OBSTACLES TO BE ENCOUNTERED IN SO FAR AS THIS INFORMATION IS REASONABLY ASCERTAINABLE FROM AN INSPECTION OF THE SITE. INCLUDING ALL EXPLORATORY WORK DONE BY THE PHA, AS WELL AS FROM THE DRAWINGS AND SPECIFICATIONS MADE A PART OFTHIS CONTRACT. ANY FAILURE OF THE CONTRACTOR TO TAKE THE ACTIONS DESCRIBED AND ACKNOWLEDGED IN THIS PARAGRAPH WILL NOT RELIEVE THE CONTRACTOR FROM RESPONSIBILITY FOR ESTIMATING PROPERLY THE DIFFICULTY AND COST OF SUCCESSFULLY PERFORMING THE WORK. OR FOR PROCEEDING TO SUCCESSFULLY PERFORM THE WORK WITHOUT ADDITIONAL EXPENSE TO THE PHA.

(B) THE PHA ASSUMES NO RESPONSIBILITY FOR ANY CONCLUSIONS OR INTERPRETATIONS MADE BY THE CONTRACTOR BASED ON THE INFORMATION MADE AVAILABLE BY THE PHA NOR DOES THEPHA ASSUME RESPONSIBILITY FOR ANY UNDERSTANDING REACHED OR REPRESENTATION MADE CONCERNING CONDITIONS WHICH CAN AFFECT THE WORK BY ANY OF ITS OFFICERS OR AGENTS BEFORE THE EXECUTION OF THIS CONTRACT. UNLESS THAT UNDERSTANDING OR REPRESENTATION IS EXPRESSLY STATED IN THIS

A)THE CONTRACTOR SHALL PROMPTLY, AND BEFORE THE CONDITIONS ARE DISTURBED, GIVE A WRITTEN NOTICE TO THE CONTRACTING OFFICER OF (1 SUBSURFACE OR LATENT PHYSICAL CONDITIONS AT THE SITE WHICH DIFFER MATERIALLY FROM THOSE INDICATED IN THIS CONTRACT, OR (2)UNKNOWN PHYSICAL CONDITIONS AT THE SITE(S), OF AN UNUSUAL NATURE, WHICH DIFFER MATERIALLY FROM THOSE ORDINARILY ENCOUNTERED AND GENERALLY RECOGNIZED AS INHERING IN WORK OF THE CHARACTER PROVIDED FOR IN THE

CONTRACT.

(B)THE CONTRACTING OFFICER SHALL INVESTIGATE THE SITE CONDITIONS PROMPTLY AFTER RECEIVING THE NOTICE. WORK SHALL NOT PROCEED AT THE AFFECTED SITE. EXCEPT AT THE CONTRACTOR'S RISK. UNTIL THE CONTRACTING OFFICER HAS PROVIDED WRITTEN INSTRUCTIONS TO THE CONTRACTOR. IF THE CONDITIONS DO MATERIALLY SO DIFFER AND CAUSE AN INCREASE OR DECREASE IN THE CONTRACTOR'S COST OF, OR THE TIME REQUIRED FOR, PERFORMING ANY PART OF THE WORK UNDER THIS CONTRACT, WHETHER OR NOT CHANGED AS A RESULT OF THE CONDITIONS. THE CONTRACTOR SHALL FILE A CLAIM IN WRITING TO THE PHA WITHIN TEN DAYS AFTER RECEIPT OF SUCH INSTRUCTIONS AND, IN ANY EVENT, BEFORE PROCEEDING WITH THE WORK, ANEQUITABLE ADJUSTMENT IN THE CONTRACT PRICE. THE DELIVERY SCHEDULE. OR BOTH SHALL BE MADE UNDER THIS CLAUSE ANDTHE CONTRACT MODIFIED IN WRITING ACCORDINGLY. (C)NO REQUEST BY THECONTRACTOR FOR AN EQUITABLE ADJUSTMENT TO THE CONTRACT UNDER THIS CLAUSE SHALL BE ALLOWED. UNLESS THE CONTRACTOR HAS GIVEN THE WRITTEN NOTICE REQUIRED: PROVIDED, THAT

THE TIME PRESCRIBED IN (A) ABOVE FORGIVING WRITTEN NOTICE MAY BE

EXTENDED BY THE CONTRACTING OFFICER.

(D)NO REQUEST BY THE CONTRACTOR FOR AN EQUITABLE ADJUSTMENTTO THE CONTRACT FOR DIFFERING SITE CONDITIONS SHALL BE ALLOWED IF MADE AFTER FINAL PAYMENT UNDER THIS CONTRACT.

SPECIFICATIONS AND DRAWINGS FOR CONSTRUCTION (A) THE CONTRACTOR SHALL KEEP ON THE WORK SITE A COPY OF THE DRAWINGS AND SPECIFICATIONS AND SHALL AT ALL TIMES GIVE THE CONTRACTING OFFICER ACCESS THERETO. ANYTHING MENTIONED IN THE SPECIFICATIONS AND NOT SHOWN ON THE DRAWINGS. OR SHOWN ON THE DRAWINGS AND NOT MENTIONED IN THE SPECIFICATIONS, SHALL BE OF LIKE FFFECT AS IF SHOWN OR MENTIONED IN BOTH IN CASE OF DIFFERENCE BETWEEN DRAWINGS AND SPECIFICATIONS. THE SPECIFICATIONS SHALL GOVERN. IN CASE OF DISCREPANCY IN THE FIGURES, IN THE DRAWINGS, OR IN THE SPECIFICATIONS. THE MATTER SHALL BE PROMPTLY SUBMITTED TO THE CONTRACTING OFFICER, WHO SHALL PROMPTLY MAKE A DETERMINATION IN WRITING. ANY ADJUSTMENTBY THE CONTRACTOR WITHOUT SUCH A DETERMINATION SHALL BE ATITS OWN RISK AND EXPENSE. THE CONTRACTING OFFICER SHALLFURNISH FROM TIME TO TIME SUCH DETAILED DRAWINGS AND OTHER INFORMATION AS CONSIDERED NECESSARY, UNLESS OTHERWISE

(B)WHEREVER IN THE SPECIFICATIONS OR UPON THE DRAWINGS THE WORDS "DÍRECTED", "REQUIRED", "ORDERED", "DESIGNATED", "PRESCRIBED", OR WORDS OF LIKE IMPORT ARE USED. IT SHALL BE UNDERSTOOD THAT THE DIRECTION "REQUIREMENT". "ORDER"."DESIGNATION". OR "PRESCRIPTION". OF THE CONTRACTING OFFICER IS INTENDED AND SIMILARLY THE WORDS "APPROVED" "ACCEPTABLE". "SATISFACTORY". OR WORDS OF LIKE IMPORT SHALL MEAN "APPROVED BY". OR "ACCEPTABLE TO". OR "SATISFACTORY TO" THE CONTRACTING OFFICER, UNLESS OTHERWISE EXPRESSLY STATED. (C)WHERE "AS SHOWN" "AS INDICATED", "AS DETAILED", OR WORDS OF SIMILAR IMPORT ARE USED, IT SHALL BE UNDERSTOOD THAT THE REFERENCE IS MADE TO THE DRAWINGS ACCOMPANYING THIS CONTRACT UNLESS STATED OTHERWISE. THE WORD "PROVIDED" AS USED HEREIN SHALL BE UNDERSTOOD TO MEAN "PROVIDE COMPLETE IN PLACE" THAT IS "FURNISHED AND INSTALLED". (D)"SHOP DRAWINGS" MEANS DRAWINGS, SUBMITTED TO THE PHA BY THE CONTRACTOR, SUBCONTRACTOR, OR ANY LOWER TIER SUBCONTRACTOR, SHOWING IN DETAIL (1) THE PROPOSED FABRICATION AND ASSEMBLY OF STRUCTURAL ELEMENTS AND (2) THE INSTALLATION(I.E., FORM, FIT, AND ATTACHMENT DETAILS) OF MATERIALS OF EQUIPMENT, IT INCLUDES DRAWINGS. LAYOUTS SCHEMATICS. DESCRIPTIVE LITERATURE. DIAGRAMS. ILLUSTRATIONS SCHEDULES PERFORMANCE AND TEST DATA AND SIMILAR MATERIALS FURNISHED BY THE CONTRACTOR TO EXPLAIN IN DETAIL SPECIFIC PORTIONS OF THE WORK REQUIRED BY THE CONTRACT. THE PHA MAY DUPLICATE, USE, AND DISCLOSE IN ANY MANNER AND FOR ANY PURPOSE SHOP DRAWINGS DELIVERED UNDER THIS CONTRACT. (E)IF THIS CONTRACT REQUIRES SHOP DRAWINGS, THE CONTRACTOR SHALL

COORDINATE ALL SUCH DRAWINGS, AND REVIEW THEM FOR ACCURACY COMPLETENESS, AND COMPLIANCE WITH OTHER CONTRACT REQUIREMENTS AND SHALL INDICATE ITS APPROVAL THEREON AS EVIDENCE OF SUCH COORDINATION AND REVIEW. SHOP DRAWINGS SUBMITTED TO THE CONTRACTING OFFICER WITHOUT EVIDENCE OF THE CONTRACTOR'S APPROVAL MAY BE RETURNED FOR RESUBMISSION.THE CONTRACTING OFFICER WILL INDICATE AN APPROVAL OR DISAPPROVAL OF THE SHOP DRAWINGS AND IF NOT APPROVED AS SUBMITTED SHALL INDICATE THE PHA'S REASONS THEREFORE. ANYWORK DONE BEFORE SUCH APPROVAL SHALL BE AT THE CONTRACTOR'S RISK APPROVAL BY THE CONTRACTING OFFICER SHALL NOT RELIEVE THECONTRACTOR FROM RESPONSIBILITY FOR ANY FRRORS OR OMISSIONS IN SUCH DRAWINGS, NOR FROM RESPONSIBILITY FOR COMPLYING WITH THE REQUIREMENTS OF THIS CONTRACT, EXCEPT WITH RESPECT TO VARIATIONS DESCRIBED AND APPROVED IN ACCORDANCE WITH (F)BELOW. (F)IF SHOP DRAWINGS SHOW VARIATIONS FROM THE CONTRACT REQUIREMENTS, THE CONTRACTOR SHALL DESCRIBE SUCH VARIATIONS IN WRITING, SEPARATE FROM THE DRAWINGS, AT THE TIME OF SUBMISSION. IF THE ARCHITECT APPROVES ANY SUCH VARIATION AND THE CONTRACTING OFFICER CONCURS. THE CONTRACTING OFFICER SHALL ISSUE AN APPROPRIATE MODIFICATION TO THE CONTRACT, EXCEPT THAT, IF THE VARIATION IS MINOR OR DOES NOT INVOLVE A CHANGE IN PRICE OR IN TIME OF PERFORMANCE, A MODIFICATION NEED NOT BE ISSUED (G)IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MAKE TIMELY REQUESTS OF THE PHA FOR SUCH LARGE SCALE AND FULL SIZE DRAWINGS, COLOR SCHEMES, AND OTHER ADDITIONAL INFORMATION NOT ALREADY IN HIS POSSESSION, WHICH SHALL BE REQUIRED. IN THE PLANNING AND PRODUCTION OF THE WORK SUCH REQUESTS MAY BE SUBMITTED AS THE NEED ARISES, BUT EACH SUCH REQUEST SHALL BE FILED. IN AMPLE TIME TO PERMIT APPROPRIATE ACTION TO BE TAKEN BY ALL PARTIES

INVOLVED SO AS TO AVOID DELAY. (H)THE CONTRACTOR SHALL SUBMIT TO THE CONTRACTING OFFICER FOR APPROVAL FOUR DIGITAL OR HARD COPIES (UNLESS OTHERWISE INDICATED) OF ALL SHOP DRAWINGS AS CALLED FOR UNDER THE VARIOUS HEADINGS OF THESE SPECIFICATIONS. THREE SETS (UNLESS OTHERWISE INDICATED) OF ALL SHOP DRAWINGS. WILL BE RETAINED BY THE PHA AND ONE SET WILL BE RETURNED TO THE CONTRACTOR. AS REQUIRED BY THE CONTRACTING OFFICER, THE CONTRACTOR, UPONCOMPLETING THE WORK UNDER THIS CONTRACT SHALL FURNISH A COMPLETE SET OF ALL SHOP DRAWINGS AS FINALLY APPROVED.THESE DRAWINGS SHALL SHOW ALL CHANGES AND REVISION SMADE UP TO THE TIME THE WORK IS COMPLETED AND ACCEPTED. (I)THIS CLAUSE SHALL BE INCLUDED IN ALL SUBCONTRACTS AT ANY TIER. I' SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT ALL SHOP DRAWINGS PREPARED BY SUBCONTRACTORS ARE SUBMITTED TO THE CONTRACTING OFFICER.

(A)"AS-BUILTDRAWINGS," AS USED IN THIS CLAUSE, MEANS DRAWINGS SUBMITTED BY THE CONTRACTOR OR SUBCONTRACTOR AT ANY TIER TO SHOW THE CONSTRUCTION OF A PARTICULAR STRUCTURE OR WORK AS ACTUALLY

COMPLETED UNDER THE CONTRACT. "AS-BUILT DRAWINGS" SHALL BE SYNONYMOUS WITH "RECORD DRAWINGS. (B)AS REQUIRED BY THE CONTRACTING OFFICER, THE CONTRACTOR SHALL PROVIDE THE CONTRACTING OFFICER ACCURATE INFORMATIONTO BE USED IN THE PREPARATION OF PERMANENT AS-BUILTDRAWINGS. FOR THIS PURPOSE. THE CONTRACTOR SHALL RECORD ON ONE SET OF CONTRACT DRAWINGS ALL CHANGES FROM THE INSTALLATIONS ORIGINALLY INDICATED AND RECORD FINAL LOCATIONS OF LINDERGROUND LINES BY DEPTH FROM FINISH GRADE AND BY ACCURATE HORIZONTAL OFFSET DISTANCES TO PERMANENT SURFACE IMPROVEMENTS SUCH AS BUILDINGS, CURBS, OR EDGES OF WALKS. (C)THIS CLAUSE SHALL BE INCLUDED IN ALL SUBCONTRACTS AT ANY TIER. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT ALL AS-BUILT DRAWINGS PREPARED BY SUBCONTRACTORS ARE SUBMITTED TO THE

(A)ALL EQUIPMENT, MATERIAL, AND ARTICLES FURNISHED UNDER THIS CONTRACT SHALL BE NEW AND OF THE MOST SUITABLE GRADE FORTHE PURPOSE INTENDED. UNLESS OTHERWISE SPECIFICALLY PROVIDED IN THIS CONTRACT, REFERENCES IN THE CONTRACT TO EQUIPMENT, MATERIAL ARTICLES, OR PATENTED PROCESSES BY TRADE NAME, MAKE, OR CATALOG NUMBER SHALL BE REGARDED AS ESTABLISHING A STANDARD OF QUALITY AND SHALL NOT BE CONSTRUED AS LIMITING COMPETITION, THE CONTRACTOR MAY AT ITS OPTION, USE ANY EQUIPMENT, MATERIAL, ARTICLE, ORPROCESS THAT IN THE JUDGMENT OF AND AS APPROVED BY THE CONTRACTING OFFICER IS EQUAL TO THAT NAMED IN THE SPECIFICATIONS, UNLESS OTHERWISE SPECIFICALLY PROVIDED IN THIS CONTRACT.

(B)APPROVAL OF EQUIPMENT AND MATERIALS (1) THE CONTRACTOR SHALL OBTAIN THE CONTRACTING OFFICER'S APPROVAL OF THE MACHINERY AND MECHANICAL AND OTHER EQUIPMENT TO BE INCORPORATED INTO THE WORK. WHEN REQUESTING APPROVAL, THE CONTRACTOR SHALL FURNISH TO THE CONTRACTING OFFICER THE NAME OF THE MANUFACTURER, THE MODEL NUMBER, AND OTHER INFORMATION CONCERNING THE PERFORMANCE, CAPACITY, NATURE, AND RATING OF THE MACHINERY AND MECHANICAL AND OTHER EQUIPMENT WHEN REQUIRED BY THIS CONTRACT OR BY THE CONTRACTINGOFFICER. THE CONTRACTOR SHALL ALSO OBTAIN THE CONTRACTING OFFICER'S APPROVAL OF THE MATERIAL ORARTICLES WHICH THE CONTRACTOR CONTEMPLATES INCORPORATING INTO THE WORK. WHEN REQUESTING APPROVAL. THE CONTRACTOR SHALL PROVIDE FULL INFORMATION CONCERNING THE MATERIAL OR ARTICLES, MACHINERY. EQUIPMENT, MATERIAL, AND ARTICLES THAT DO NOT HAVE THE REQUIRED APPROVAL SHALL BE INSTALLED OR USED AT THE RISK OF SUBSEQUENT REJECTION. (2) WHEN REQUIRED BY THE CONTRACT DOCUMENTS OR THE CONTRACTING OFFICER, THE CONTRACTOR SHALL SUBMIT APPROPRIATELY MARKED SAMPLES (AND CERTIFICATES RELATED TO THEM) FOR APPROVAL AT THE CONTRACTOR'S EXPENSE, WITH ALL SHIPPING CHARGES PREPAID. THE CONTRACTOR SHALL LABEL, OR OTHERWISE PROPERLY MARK ONTHE CONTAINER, THE MATERIAL OR PRODUCT REPRESENTED, ITS PLACE OF ORIGIN, THE NAME OF THE PRODUCER,

THE CONTRACTOR'S NAME. AND THE IDENTIFICATION OF THE CONSTRUCTION PROJECT FOR WHICH THE MATERIAL OR PRODUCTIS INTENDED TO BE USED. (3) CERTIFICATES SHALL BE SUBMITTED IN TRIPLICATE. DESCRIBING EACH SAMPLE SUBMITTED FOR APPROVAL AND CERTIFYING THAT THE MATERIAL EQUIPMENT OR ACCESSORY COMPLIES WITH CONTRACT REQUIREMENTS. THE CERTIFICATES SHALL INCLUDE THE NAME AND BRAND OF THE PRODUCT. NAME OFMANUFACTURER. AND THE LOCATION WHERE PRODUCED. (4) APPROVAL OF A SAMPLE SHALL NOT CONSTITUTE A WAIVER OF THE PHA RIGHT TO DEMAND FULL COMPLIANCE WITH CONTRACT REQUIREMENTS. MATERIALS, EQUIPMENT AND ACCESSORIES MAY BE REJECTED FOR CAUSE EVEN THOUGH SAMPLES HAVE BEEN APPROVED.

(5) WHEREVER MATERIALS ARE REQUIRED TO COMPLY WITH RECOGNIZED STANDARDS OR SPECIFICATIONS, SUCH SPECIFICATIONS SHALL BE ACCEPTED AS ESTABLISHING THE TECHNICAL QUALITIES AND TESTING METHODS, BUT SHALL NOT GOVERN THE NUMBER OF TESTS REQUIRED TO BE MADE NOR MODIFY OTHER CONTRACT REQUIREMENTS. THE CONTRACTING OFFICER MAY REQUIRE LABORATORY TEST REPORTS ON ITEMS SUBMITTED FOR APPROVAL OR MAY APPROVE MATERIALS ON THE BASIS OF DATA SUBMITTED IN CERTIFICATES WITH SAMPLES. CHECK TESTS WILL BE MADE ON MATERIALS DELIVERED FOR USE ONLY AS FREQUENTLY AS THE CONTRACTING OFFICER DETERMINES NECESSARY TO INSURE COMPLIANCE OF MATERIALS WITH THE SPECIFICATIONS. THE CONTRACTOR WILL ASSUME ALL COSTS OF RETESTING MATERIALS WHICH FAIL TO MEET CONTRACT REQUIREMENTS AND/OR TESTING MATERIAL SOFFERED IN SUBSTITUTION FOR THOSE FOUND DEFICIENT. (6) AFTER APPROVAL, SAMPLES WILL BE KEPT IN THE PROJECT OFFICE UNTIL COMPLETION OF WORK, THEY MAY BE BUILT INTO THE WORK AFTER A

SUBSTANTIAL QUANTITY OF THE MATERIALSTHEY REPRESENT HAS BEEN BUILT (C) REQUIREMENTS CONCERNING LEAD-BASED PAINT. THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS CONCERNING LEAD-BASED PAINT CONTAINED IN THE LEAD-BASED PAINT POISONING PREVENTION ACT (42 U.S.C. 4821-4846) AS IMPLEMENTED BY 24 CFR PART 35.

(A)THE CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALLAPPLICABLE LAWS, ORDINANCES, CODES, RULES AND REGULATIONS.

NOTWITHSTANDING THE REQUIREMENT OF THE CONTRACTOR TO COMPLY WITH THE DRAWINGS AND SPECIFICATIONS IN THE CONTRACT, ALL WORK INSTALLED SHALL COMPLY WITH ALL APPLICABLE CODES AND REGULATIONS AS AMENDED BY ANY WAIVERS. BEFORE INSTALLING THE WORK, THE CONTRACTOR SHALL EXAMINE THE DRAWINGS AND THE SPECIFICATIONS FOR COMPLIANCE WITH APPLICABLE CODES AND REGULATIONS BEARING ON THE WORK AND SHALL IMMEDIATELY REPORT ANY DISCREPANCY IT MAY DISCOVER TO THE CONTRACTING OFFICER.

WHERE THE REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS FAIL TO COMPLY WITH THE APPLICABLE CODE OR REGULATION THE CONTRACTING OFFICER SHALL MODIFY THE CONTRACT BY CHANGE ORDER PURSUANT TO THE CLAUSE ENTITLED CHANGES HEREIN TO CONFORM TO THE CODE OR REGULATION. (B) THE CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS. FEES INSPECTION AND LICENSES NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK. WHERE THE PHA CAN ARRANGE FORTHE ISSUANCE OF ALL OR PART OF THESE PERMITS, FEES AND LICENSES, WITHOUT COST TO THE CONTRACTOR, THE CONTRACT AMOUNT SHALL BE REDUCED

HEALTH, SAFETY AND ACCIDENT PREVENTION

(A) IN PERFORMING THIS CONTRACT, THE CONTRACTOR SHALL: (1)ENSURE THAT NO LABORER OR MECHANIC SHALL BE REQUIRED TO WORK IN SURROUNDINGS OR UNDER WORKING CONDITIONS WHICH ARE UNSANITARY. HAZARDOUS OR DANGEROUS TO HIS/HER HEALTH AND/OR SAFETY AS DETERMINED UNDER CONSTRUCTION SAFETY AND HEALTHSTANDARDS PROMULGATED BY THE SECRETARY OF LABOR BY REGULATION: (2)PROTECT THE LIVES, HEALTH, AND SAFETY OF OTHER PERSONS: (3)PREVENT DAMAGE TO PROPERTY, MATERIALS, SUPPLIES, AND EQUIPMENT; AND, (4)AVOID WORK INTERRUPTIONS. (B) FOR THESE PURPOSES, THE CONTRACTOR SHALL: (1)COMPLY WITH REGULATIONS AND STANDARDS ISSUED BY THE SECRETARY OF LABOR AT 29 CFR PART 1926. FAILURE TO COMPLY MAY RESULT IN IMPOSITION OF SANCTIONS PURSUANT TO THE CONTRACT WORK HOURS AND SAFETY STANDARDS ACT(PUBLIC LAW 91-54, 83 STAT. 96), 40 U.S.C. 3701 ETSEQ.; AND (2)INCLUDE THE TERMS OF THIS CLAUSE IN EVERY SUBCONTRACT SO THAT SUCH TERMS WILL BE BINDING ON EACH SUBCONTRACTOR. (C) THE CONTRACTOR SHALL MAINTAIN AN ACCURATE RECORD OF EXPOSURE DATA ON ALL ACCIDENTS INCIDENT TO WORK PERFORMED UNDER THIS CONTRACT RESULTING IN DEATH TRAUMATIC INJURY OCCUPATIONAL DISEASE OR DAMAGE TO PROPERTY MATERIALS. SUPPLIES, OR EQUIPMENT, AND SHALL REPORT THIS DATA IN THE MANNER PRESCRIBED BY 29 CER PART1904 (D) THE CONTRACTING OFFICER SHALL NOTIFY THE CONTRACTOR OF ANY NONCOMPLIANCE WITH THESE REQUIREMENTS AND OF THE CORRECTIVE ACTION REQUIRED. THIS NOTICE. WHEN DELIVERED TOTHE CONTRACTOR OR THE CONTRACTOR'S REPRESENTATIVE AT THE SITE OF THE WORK, SHALL BE DEEMED SUFFICIENT NOTICE OF THE NON COMPLIANCE AND CORRECTIVE ACTION REQUIRED AFTER RECEIVING THE NOTICE THE CONTRACTOR SHALL IMMEDIATELY TAKE CORRECTIVE ACTION IF THE CONTRACTOR FAILS OR REFUSES TO TAKE CORRECTIVE ACTION PROMPTLY, THE CONTRACTING OFFICER MAY ISSUE ANORDER STOPPING ALL OR PART OF THE WORK UNTIL SATISFACTORY CORRECTIVE ACTION HAS BEEN TAKEN. THE CONTRACTOR SHALL NOT BASE ANY CLAIM OR REQUEST FOR EQUITABLE ADJUSTMENT FOR ADDITIONAL TIME OR MONEY ON ANY STOP ORDER ISSUED UNDER THESE CIRCUMSTANCES (E) THE CONTRACTOR SHALL BE RESPONSIBLE FOR ITS SUBCONTRACTORS' COMPLIANCE WITH THE PROVISIONS OF THIS CLAUSE. THE CONTRACTOR SHALL TAKE SUCH ACTION WITH RESPECT TO ANY SUBCONTRACT AS THE PHA, THE SECRETARY OF HOUSING AND URBAN DEVELOPMENT. OR THE SECRETARY OF LABOR SHALL DIRECT AS A MEANS OF ENFORCING SUCH PROVISIONS.

THE CONTRACTOR SHALL PROVIDE AND PAY FOR TEMPORARY HEATING, COVERING, AND ENCLOSURES NECESSARY TO PROPERLY PROTECT ALL WORK AND MATERIALS AGAINST DAMAGE BY DAMPNESS AND COLD. TO DRY OUT THE WORK, AND TO FACILITATE THE COMPLETION OF THE WORK. ANY PERMANENT HEATING EQUIPMENT USED SHALL BE TURNED OVER TO THE PHA IN THE CONDITION AND AT THE TIME REQUIRED BY THE SPECIFICATIONS.

A) THE PHA SHALL MAKE ALL REASONABLY REQUIRED AMOUNTS OF UTILITIES AVAILABLE TO THE CONTRACTOR FROM EXISTING OUTLETS AND SUPPLIES. AS SPECIFIED IN THE CONTRACT. UNLESS OTHERWISE PROVIDED IN THE CONTRACT. THE AMOUNT OF EACH UTILITY SERVICE CONSUMED SHALL BE CHARGED TO OR PAID FOR BY THE CONTRACTOR AT PREVAILING RATES CHARGED TO THE PHA OR, WHERE THE UTILITY IS PRODUCED BY THE PHA, AT REASONABLE RATES DETERMINED BY THE CONTRACTING OFFICER. THE CONTRACTOR SHALL CAREFULLY CONSERVE ANY UTILITIES FURNISHED WITHOUT CHARGE. (B) THE CONTRACTOR, AT ITS EXPENSE AND IN A MANNER SATISFACTORY TO HE CONTRACTING OFFICER, SHALL INSTALL AND MAINTAIN ALL NECESSARY TEMPORARY CONNECTIONS AND DISTRIBUTION LINES, AND ALL METERS REQUIRED TO MEASURE THE AMOUNT OF EACH UTILITY USED FOR THE PURPOSE OF DETERMINING CHARGES, BEFORE FINAL ACCEPTANCE OF THE WORK BY THE PHA. THE CONTRACTOR SHALL REMOVE ALL THE TEMPORARY CONNECTIONS, DISTRIBUTION LINES, METERS, AND ASSOCIATED PARAPHERNAI IA (C) THE CONTRACTOR, AT ITS EXPENSE AND IN A MANNER SATISFACTORY TO THE CONTRACTING OFFICER, SHALL INSTALL ANY ADDITIONAL TEMPORARY UTILITIES REQUIRED DURING CONSTRUCTION. (D) THE CONTRACTOR, AT ITS EXPENSE AND IN A MANNER SATISFACTORY TO THE CONTRACTING OFFICER, SHALL PROVIDE TEMPORATY TOILET FACILITIES

DTECTION OF EXISTING VEGETATION, STRUCTURES, EQUIPMENT, UTILITIES, (A) THE CONTRACTOR SHALL PRESERVE AND PROTECT ALL STRUCTURES, EQUIPMENT, AND VEGETATION (SUCH AS TREES, SHRUBS, ANDGRASS) ON OR ADJACENT TO THE WORKSITE, WHICH ARE NOT TO BE REMOVED UNDER THIS CONTRACT AND WHICH DO NOT UNREASONABLY INTERFERE WITH THE WORK REQUIRED UNDER THIS CONTRACT. (B) THE CONTRACTOR SHALL ONLY REMOVE TREES WHEN SPECIFICALLY AUTHORIZED TO DO SO, AND SHALL AVOID DAMAGING VEGETATION THAT WILL REMAIN IN PLACE. IF ANY LIMBS OR BRANCHES OF TREES ARE BROKEN DURING PERFORMANCE OF THIS CONTRACT, OR BY THE CARELESS OPERATION OF EQUIPMENT, OR BY WORKMEN, THE CONTRACTOR SHALL TRIM THOSE LIMBS OR BRANCHES WITH A CLEANCUT AND PAINT THE CUT WITH A TREE-PRUNING COMPOUND AS DIRECTED BY THE CONTRACTING OFFICER. (C) THE CONTRACTOR SHALL PROTECT FROM DAMAGE ALL EXISTING IMPROVEMENTS AND UTILITIES (1) AT OR NEAR THE WORK SITE AND (2) ON ADJACENT PROPERTY OF A THIRD PARTY, THE LOCATIONS OF WHICH ARE MADE KNOWN TO OR SHOULD BE KNOWN BY THE CONTRACTOR. PRIOR TO DISTURBING THE GROUND AT THE CONSTRUCTION SITE. THE CONTRACTOR SHALL ENSURE THAT ALL UNDERGROUND UTILITY LINES ARE CLEARLY MARKED. (D) THE CONTRACTOR SHALL SHORE UP BRACE UNDERPIN SECURE AND PROTECT AS NECESSARY ALL FOUNDATIONS AND OTHER PARTS OF EXISTING STRUCTURES ADJACENT TO. ADJOINING. AND IN THE VICINITY OF THE SITE. WHICH MAY BE AFFECTED BY THE EXCAVATIONS OR OTHER OPERATIONS CONNECTED WITH THE CONSTRUCTION OF THE PROJECT. (E) ANY EQUIPMENT TEMPORARILY REMOVED AS A RESULT OF WORK UNDER THIS CONTRACT SHALL BE PROTECTED, CLEANED, AND REPLACEDIN THE SAME CONDITION AS AT THE TIME OF AWARD OFTHIS CONTRACT. (F)NEW WORK WHICH CONNECTS TO EXISTING WORK SHALL CORRESPOND IN ALL RESPECTS WITH THAT TO WHICH IT CONNECTS AND/OR BE SIMILAR TO EXISTING WORK UNLESS OTHERWISE REQUIRED BY THE SPECIFICATIONS. (G)NO STRUCTURAL MEMBERS SHALL BE ALTERED OR IN ANY WAY WEAKENED WITHOUT THE WRITTEN AUTHORIZATION OF THE CONTRACTING OFFICER, UNLESS SUCH WORK IS CLEARLY SPECIFIED IN THE PLANS OR SPECIFICATIONS. (H)IF THE REMOVAL OF THE EXISTING WORK EXPOSES DISCOLORED OR UNFINISHED SURFACES OR WORK OUT OF ALIGNMENT, SUCH SURFACES SHALL BE REFINISHED, OR THE MATERIAL REPLACED AS NECESSARY TO MAKE THE

CONTINUOUS WORK UNIFORM AND HARMONIOUS. THIS. HOWEVER. SHALL NOT BE CONSTRUED TO REQUIRE THE REFINISHING OR RECONSTRUCTION OF DISSIMILAR FINISHES PREVIOUSLY EXPOSED. OR FINISHED SURFACES IN GOOD CONDITION, BUT IN DIFFERENT PLANES OR ON DIFFERENT LEVELS WHEN BROUGHT TOGETHER BY THE REMOVAL OF INTERVENING WORK, UNLESS SUCH REFINISHING OR RECONSTRUCTION IS SPECIFIED IN THE PLANS OR SPECIFICATIONS. (I)THE CONTRACTOR SHALL GIVE ALL REQUIRED NOTICES TO ANY ADJOINING OR ADJACENT PROPERTY OWNER OR OTHER PARTY BEFORE THE

COMMENCEMENT OF ANY WORK. (J)THE CONTRACTOR SHALL INDEMNIFY AND SAVE HARMLESS THE PHA FROM ANY DAMAGES ON ACCOUNT OF SETTLEMENT OR THE LOSS OF LATERAL SUPPORT OF ADJOINING PROPERTY, ANY DAMAGES FROM CHANGES IN TOPOGRAPHY AFFECTING DRAINAGE, AND FROM ALL LOSS OR EXPENSE AND ALL DAMAGES FOR WHICH THE PHA MAY BECOME LIABLE IN CONSEQUENCE OF SUCH INJURY OR DAMAGE TO ADJOINING AND ADJACENT STRUCTURES AND THEIR PREMISES (K)THE CONTRACTOR SHALL REPAIR ANY DAMAGE TO VEGETATION, STRUCTURES, EQUIPMENT, UTILITIES, OR IMPROVEMENTS, INCLUDING THOSE THAT ARE THE PROPERTY OF A THIRD PARTY, RESULTING FROM FAILURE TO COMPLY WITH THE REQUIREMENTS OF THIS CONTRACT OR FAILURE TO EXERCISE REASONABLE CARE IN PERFORMING THE WORK. IF THE

CONTRACTOR FAILS OR REFUSES TO REPAIR THE DAMAGE PROMPTLY. THE

CONTRACTING OFFICER MAY HAVE THE NECESSARY WORK PERFORMED AND

CHARGE THE COST TO THE CONTRACTOR.

TEMPORARY BUILDINGS AND TRANSPORTATION OF MATERIALS

(A)TEMPORARY BUILDINGS (E.G., STORAGE SHEDS, SHOPS, OFFICES, SANITARY FACILITIES) AND UTILITIES MAY BE ERECTED BY THE CONTRACTOR ONLY WITH THE APPROVAL OF THE CONTRACTING OFFICER AND SHALL BE BUILT WITH LABOR AND MATERIALS FURNISHED BY THE CONTRACTOR WITHOUT EXPENSE TO THE PHA. THE TEMPORARY BUILDINGS AND UTILITIES SHALL REMAIN THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED BY THE CONTRACTOR AT ITS EXPENSE UPON COMPLETION OF THE WORK. WITH THE WRITTEN CONSENT OF THE CONTRACTING OFFICER, THE BUILDINGS AND UTILITIES MAY BE ABANDONED AND NEED NOT BE REMOVED. (B)THE CONTRACTOR SHALL. AS DIRECTED BY THE CONTRACTING OFFICER. USE ONLY ESTABLISHED ROADWAYS, OR USE TEMPORARY ROADWAYS CONSTRUCTED BY THE CONTRACTOR WHEN AND ASAUTHORIZED BY THE CONTRACTING OFFICER. WHEN MATERIALS ARE TRANSPORTED IN PROSECUTING THE WORK, VEHICLES SHALL NOT BE LOADED BEYOND THE LOADING CAPACITY RECOMMENDED BY THE MANUFACTURER OF THE VEHICLE OR PRESCRIBED BY ANY FEDERAL, STATE, OR LOCAL LAW OR REGULATION. WHEN IT IS NECESSARY TO CROSS CURBS OR SIDEWALKS. THE CONTRACTOR SHALL PROTECT THEM FROM DAMAGE. THE CONTRACTOR SHALL REPAIR OR

PAY FOR THE REPAIR OF ANY DAMAGED CURBS, SIDEWALKS, OR ROADS.

CLEAN AIR AND WATER THE CONTACTOR SHALL COMPLY WITH THE CLEAN AIR ACT, ASAMENDED, 42 USC 7401 ET SEQ., THE FEDERAL WATER POLLUTION CONTROL WATER ACT, AS AMENDED 33 U.S.C. 1251FT SEQ. AND STANDARDS ISSUED PURSUANT THERE TO IN THE FACILITIES IN WHICH THIS CONTRACT IS TO BE PERFORMED.

ENERGY EFFICIENCY
THE CONTRACTOR SHALL COMPLY WITH MANDATORY STANDARDS AND POLICIES RELATING TO ENERGY EFFICIENCY WHICH ARE CONTAINED IN THE ENERGY CONSERVATION PLAN ISSUED IN COMPLIANCE WITH THE ENERGY POLICY AND CONSERVATION ACT (PUB.L. 94-163) FOR THE STATE IN WHICH THE WORK UNDER THE CONTRACT IS PERFORMED.

INSPECTION AND ACCEPTANCE OF CONSTRUCTION (A)DEFINITIONS. AS USED IN THIS CLAUSE- (1) "ACCEPTANCE" MEANS THE ACT OF AN AUTHORIZED REPRESENTATIVE OF THE PHA BY WHICH THE PHA APPROVES AND ASSUMES OWNERSHIP OF THE WORK PERFORMED UNDER THIS CONTRACT, ACCEPTANCE MAY BE PARTIAL OR COMPLETE. (2) "INSPECTION MEANS EXAMINING AND TESTING THE WORK PERFORMED UNDER THE CONTRACT (INCLUDING, WHEN APPROPRIATE, RAW MATERIALS, EQUIPMENT COMPONENTS, AND INTERMEDIATE ASSEMBLIES) TO DETERMINE WHETHER IT CONFORMS TO CONTRACT REQUIREMENTS. (3) "TESTING" MEANS THAT ELEMENT OF INSPECTION THAT DETERMINES THE PROPERTIES OR ELEMENTS. INCLUDING FUNCTIONAL OPERATION OF MATERIALS FOLIPMENT OR THEIR COMPONENTS, BY THE APPLICATION OF ESTABLISHED SCIENTIFIC PRINCIPLES AND PROCEDURES (B) THE CONTRACTOR SHALL MAINTAIN AN ADEQUATE INSPECTION SYSTEM AND PERFORM SUCH INSPECTIONS AS WILL ENSURE THAT THE WORK PERFORMED UNDER THE CONTRACT CONFORMS TO CONTRACT REQUIREMENTS, ALL WORK IS SUBJECT TO PHA INSPECTION AND TEST AT ALL PLACES AND AT ALL REASONABLE TIMES BEFORE ACCEPTANCE TO ENSURE STRICT COMPLIANCE WITH THE TERMS OF THE CONTRACT. (C) PHA INSPECTIONS AND TESTS ARE FOR THE SOLE BENEFIT OF THE PHA AND DÓ NOT: (1) RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR PROVIDING ADEQUATE QUALITY CONTROL MEASURES; (2) RELIEVE THE CONTRACTOR OF

RESPONSIBILITY FOR LOSS OR DAMAGE OF THE MATERIAL BEFORE ACCEPTANCE; (3) CONSTITUTE OR IMPLY ACCEPTANCE; OR, (4) AFFECT THE CONTINUING RIGHTS OF THE PHA AFTER ACCEPTANCE OF THE COMPLETED WORK UNDER PARAGRAPH (J) BELOW. (D) THE PRESENCE OR ABSENCE OF THE PHA INSPECTOR DOES NOT RELIEVE THE CONTRACTOR FROM ANY CONTRACT REQUIREMENT NOR IS THE INSPECTOR AUTHORIZED TO CHANGE ANY TERM OR CONDITION OF THE SPECIFICATIONS WITHOUT THE CONTRACTING OFFICER'S WRITTEN AUTHORIZATION, ALL INSTRUCTIONS AND APPROVALS WITH RESPECT TO THE WORK SHALL BE GIVEN TO THECONTRACTOR BY THE CONTRACTING OFFICER. E) THE CONTRACTOR SHALL PROMPTLY FURNISH, WITHOUT ADDITIONAL CHARGE, ALL FACILITIES, LABOR, AND MATERIAL REASONABLY NEEDED FOR PERFORMING SUCH SAFE AND CONVENIENT INSPECTIONS AND TESTS AS MAY BE REQUIRED BY THE CONTRACTING OFFICER. THE PHA MAY CHARGE TO THECONTRACTOR ANY ADDITIONAL COST OF INSPECTION OR TEST WHEN WORK IS NOT READY AT THE TIME SPECIFIED BY THE CONTRACTOR FOR INSPECTION OR TEST, OR WHEN PRIOR REJECTION MAKES REINSPECTION OR RETEST NECESSARY. THE PHA SHALL PERFORM ALL INSPECTIONS AND TESTS IN A MANNER THAT WILL NOT UNNECESSARILY DELAY THE WORK. SPECIAL, FULL SIZE. AND PERFORMANCE TESTS SHALL BE PERFORMED AS DESCRIBED IN THE CONTRACT (F)THE PHA MAY CONDUCT ROUTINE INSPECTIONS OF THE CONSTRUCTION SITE

ON A DAILY BASIS. (G)THE CONTRACTOR SHALL, WITHOUT CHARGE, REPLACE OR CORRECT WORK FOUND BY THE PHA NOT TO CONFORM TO CONTRACT REQUIREMENTS, UNLESS THE PHA DECIDES THAT IT IS IN ITS INTEREST TO ACCEPT THE WORK WITH AN APPROPRIATE ADJUSTMENT IN CONTRACT PRICE. THE CONTRACTOR SHALL PROMPTLY SEGREGATE AND REMOVE REJECTED MATERIAL FROM THE (H)IF THE CONTRACTOR DOES NOT PROMPTLY REPLACE OR CORRECT

REJECTED WORK, THE PHA MAY (1) BY CONTRACT OR OTHERWISE, REPLACE OR CORRECT THE WORK AND CHARGE THE COST TO THE CONTRACTOR, OR (2) TERMINATE FOR DEFAULT THE CONTRACTOR'S RIGHT TO PROCEED. (I)IF ANY WORK REQUIRING INSPECTION IS COVERED UP WITHOUT APPROVAL OF THE PHA IT MUST IF REQUESTED BY THE CONTRACTING OFFICER BE UNCOVERED AT THE EXPENSE OF THE CONTRACTOR IF AT ANY TIME BEFORE FINAL ACCEPTANCE OF THE ENTIRE WORK, THE PHA CONSIDERS IT NECESSARY OR ADVISABLE. TO EXAMINE WORK ALREADY COMPLETED BY REMOVING OR TEARING IT OUT. THE CONTRACTOR, SHALL ON REQUEST, PROMPTLY FURNISH ALL NECESSARY FACILITIES, LABOR, AND MATERIAL. IF SUCH WORK IS FOUND TO BE DEFECTIVE OR NONCONFORMING IN ANY MATERIAL RESPECT DUE TO THE FAULT OF THE CONTRACTOR OR ITS SUBCONTRACTORS, THE CONTRACTOR SHALL DEFRAY ALL THE EXPENSES OF THE EXAMINATION AND OF SATISFACTORY RECONSTRUCTION. IF, HOWEVER, SUCH WORK IS FOUND TO MEET THE REQUIREMENTS OF THE CONTRACT, THE CONTRACTING OFFICER SHALL MAKE AN EQUITABLE ADJUSTMENT TO COVER THE COST OF THE EXAMINATION AND RECONSTRUCTION, INCLUDING, IF COMPLETION OF THE WORK WAS THERE BY DELAYED. AN EXTENSION OF TIME. (J)THE CONTRACTOR SHALL NOTIFY THE CONTRACTING OFFICER. IN WRITING AS TO THE DATE WHEN IN ITS OPINION ALL OR A DESIGNATED PORTION OF THE WORK WILL BE SUBSTANTIALLY COMPLETED AND READY FOR INSPECTION, IE THE ARCHITECT DETERMINES THAT THE STATE OF PREPAREDNESS IS AS REPRESENTED THE PHA WILL PROMPTLY ARRANGE FOR THE INSPECTION UNLESS OTHERWISE SPECIFIED IN THE CONTRACT. THE PHA SHALL ACCEPT. AS SOON AS PRACTICABLE AFTER COMPLETION AND INSPECTION. ALL WORK REQUIRED BY THE CONTRACT OR THAT PORTION OF THE WORK THE CONTRACTING OFFICER DETERMINES AND DESIGNATES CAN BE ACCEPTED SEPARATELY. ACCEPTANCE SHAL LBE FINAL AND CONCLUSIVE EXCEPT FOR ATENT DEFECTS, FRAUD, GROSS MISTAKES AMOUNTING TO FRAUD, OR THE

USE AND POSSESSION PRIOR TO COMPLETION (A)THE PHA SHALL HAVE THE RIGHT TO TAKE POSSESSION OF OR USE ANY COMPLETED OR PARTIALLY COMPLETED PART OF THE WORK, BEFORE TAKING POSSESSION OF OR USING ANY WORK THE CONTRACTING OFFICER SHALL

PHA'S RIGHT UNDER ANY WARRANTY OR GUARANTEE.

MODIFIED IN WRITING ACCORDINGLY.

FURNISH THE CONTRACTOR A LIST OF ITEMS OF WORK REMAINING TO BE PERFORMED OR CORRECTED ON THOSE PORTIONS OF THE WORK THAT THE PHA INTENDS TO TAKE POSSESSION OF OR USE, HOWEVER, FAILURE OF THE CONTRACTING OFFICER TO LIST ANY ITEM OF WORK SHALL NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR COMPLYING WITH THE TERMS OF THE CONTRACT, THE PHA'S POSSESSION OR USE SHALL NOT BE DEEMED AN ACCEPTANCE OF ANY WORK UNDER THE CONTRACT. (B)WHILE THE PHA HAS SUCH POSSESSION OR USE, THE CONTRACTOR SHALL BE RELIEVED OF THE RESPONSIBILITY FOR (1) THE LOSS OF OR DAMAGE TO THE WORK RESULTING FROM THE PHA'S POSSESSION OR USE. NOTWITHSTANDING THE TERMS OF THE CLAUSE ENTITLED PERMITS AND CODES HEREIN; (2) ALL MAINTENANCE COSTS ON THE AREAS OCCUPIED: AND. (3)FURNISHING HEAT. LIGHT POWER AND WATER USED IN THE AREAS OCCUPIED WITHOUT PROPER REMUNERATION THEREFORE. IF PRIOR POSSESSION OR USE BY THE PHA DELAYS THE PROGRESS OF THE WORK OR CAUSES ADDITIONAL EXPENSE TO THE CONTRACTOR AN FOUITABLE ADJUSTMENT SHALL BE MADE IN THE CONTRACT PRICE OR THE TIME OF COMPLETION, AND THE CONTRACT SHALL BE

THE CONTRACTOR WARRANTS GOOD TITLE TO ALL MATERIALS, SUPPLIES, AND EQUIPMENT INCORPORATED IN THE WORK AND AGREES TO DELIVER THE PREMISES TOGETHER WITH ALL IMPROVEMENTS THERE ON FREE FROM ANY CLAIMS, LIENS OR CHARGES, AND AGREES FURTHER THAT NEITHER IT NOR ANY OTHER PERSON, FIRM OR CORPORATION SHALL HAVE ANY RIGHT TO A LIEN UPON THE PREMISES OR ANYTHING APPUR TENANT THERETO.

WARRANTY OF CONSTRUCTION
(A) IN ADDITION TO ANY OTHER WARRANTIES IN THIS CONTRACT, THE CONTRACTOR WARRANTS EXCEPT ASPROVIDED IN PARAGRAPH (J)OF THIS CLAUSE THAT WORK PERFORMED UNDER THIS CONTRACT CONFORMS TO THE CONTRACT REQUIREMENTS AND IS FREE OF ANY DEFECT IN EQUIPMENT MATERIAL OR WORKMANSHIP PERFORMED BY THE CONTRACTOR OR ANY SUBCONTRACTOR OR SUPPLIER AT ANY TIER. THIS WARRANTY SHALL CONTINUE FOR A PERIOD OF_ONE YEAR UNLESS OTHERWISE INDICATED FROM THE DATE OF FINAL ACCEPTANCE OFTHE WORK, IF THE PHA TAKES POSSESSION OF ANY PART OF THE WORK BEFORE FINAL ACCEPTANCE, THIS WARRANTY SHALL CONTINUE FOR A PERIOD OF ONE YEAR UNLESS OTHERWISE INDICATED FROM THE DATE THAT THE PHA TAKES POSSESSION. (B) THE CONTRACTOR SHALL REMEDY, AT THE CONTRACTOR'S EXPENSE, ANY FAILURE TO CONFORM, OR ANY DEFECT. IN ADDITION, THE CONTRACTOR SHALL REMEDY, AT THE CONTRACTOR'S EXPENSE, ANY DAMAGE TO PHA-OWNED OR CONTROLLED REAL ORPERSONAL PROPERTY WHEN THE DAMAGE IS THE RESULT OF— (1) THE CONTRACTOR'S FAILURE TO CONFORM TO CONTRACT REQUIRE-MERITS; OR (2) ANY DEFECTS OF EQUIPMENT, MATERIAL, WORKMANSHIP OR DESIGN FURNISHED BY THE CONTRACTOR. (C) THE CONTRACTOR SHALL RESTORE ANY WORK DAMAGED IN FULFILLING THE TERMS AND CONDITIONS OF THIS CLAUSE. THE CONTRACTOR'S WARRANTY WITH RESPECT TO WORK REPAIRED OR REPLACED WILL RUN FOR (ONE YEAR UNLESS OTHERWISEINDICATED) FROM THE DATE OF REPAIR OR REPLACEMENT. (D) THE CONTRACTING OFFICER SHALL NOTIFY THE CONTRACTOR, IN WRITING, WITHIN A REASONABLE TIME AFTER THE DISCOVERY OFANY FAILURE, DEFECT (E) IF THE CONTRACTOR FAILS TO REMEDY ANY FAILURE, DEFECT, OR DAMAGE

WITHIN A REASONABLE TIME AFTER RECEIPT OF NOTICE, THE PHA SHALL HAVE THE RIGHT TO REPLACE, REPAIR OR OTHERWISE REMEDY THE FAILURE, DEFECT, OR DAMAGE AT THE CONTRACTOR'S EXPENSE. (F) WITH RESPECT TO ALL WARRANTIES, EXPRESS OR IMPLIED, FROM SUBCONTRACTORS, MANUFACTURERS, OR SUPPLIERS FOR WORK PERFORMED AND MATERIALS FURNISHED UNDER THIS CONTRACT THE CONTRACTOR SHALL: (1) OBTAIN ALL WARRANTIES THAT WOULD BE GIVEN IN NORMAL COMMERCIAL PRACTICE: (2) REQUIRE ALL WARRANTIES TO BE EXECUTED IN WRITING. FOR THEBENEFIT OF THE PHA; AND, (3) ENFORCE ALL WARRANTIES FOR THE RENEEIT OF THE PHA

(G) IN THE EVENT THE CONTRACTOR'S WARRANTY UNDER PARAGRAPH (A) OF

THIS CLAUSE HAS EXPIRED, THE PHA MAY BRING SUIT ATITS OWN EXPENSE TO

ENFORCE A SUBCONTRACTOR'S, MANUFACTURER'S OR SUPPLIER'S (H)UNLESS A DEFECT IS CAUSED BY THE NEGLIGENCE OF THE CONTRACTOR OR SUBCONTRACTOR OR SUPPLIER AT ANY TIER, THECONTRACTOR SHALL NOT BE LIABLE FOR THE REPAIR OF ANY DEFECT OF MATERIAL OR DESIGN FURNISHED BY THE PHA NOR FOR THE REPAIR OF ANY DAMAGE THAT RESULTS FROM ANY DEFECT IN PHA FURNISHED MATERIAL OR DESIGN. (I)NOTWITHSTANDING ANY PROVISIONS HEREIN TO THE CONTRARY, THE ESTABLISHMENT OF THE TIME PERIODS IN PARAGRAPHS (A) AND(C) ABOVE

RELATE ONLY TO THE SPECIFIC OBLIGATION OF THE CONTRACTOR TO

CORRECT THE WORK, AND HAVE NO RELATIONSHIPTO THE TIME WITHIN WHICH

ITS OBLIGATION TO COMPLY WITH THE CONTRACT MAY BE SOUGHT TO BE

ENFORCED, NOR TO THE TIME WITHIN WHICH PROCEEDINGS MAY BE COMMENCED TO ESTABLISH THE CONTRACTOR'S LIABILITY WITH RESPECT TO ITS OBLIGATION OTHER THAN SPECIFICALLY TO CORRECT THE WORK. (J)THIS WARRANTY SHALL NOT LIMIT THE PHA'S RIGHTS UNDER THE INSPECTION AND ACCEPTANCE OF CONSTRUCTION CLAUSE OF THIS CONTRACT WITH RESPECT TO LATENT DEFECTS, GROSS MISTAKES OR FRAUD.

THE CONTRACTOR IS PROHIBITED FROM PLACING A LIEN ON THE PHA'S PROPERTY. THIS PROHIBITION SHALL APPLY TO ALL SUBCONTRACTORS AT ANY TIER AND ALL MATERIALS SUPPLIERS.

A) THE CONTRACTING OFFICER MAY, AT ANY TIME, WITHOUT NOTICE TO THE SURETIES, BY WRITTEN ORDER DESIGNATED OR INDICATED TO BE A CHANGE ORDER, MAKE CHANGES IN THE WORK WITHIN THE GENERAL SCOPE OF THE CONTRACT INCLUDING CHANGES: (1) IN THE SPECIFICATIONS (INCLUDING DRAWINGS AND DESIGNS); (2) IN THE METHOD OR MANNER OF PERFORMANCE THE WORK; (3) PHA-FURNISHED FACILITIES, EQUIPMENT MATERIALS, SERVICES, OR SITE; OR, (4) DIRECTING THE ACCELERATION IN THE PERFORMANCE OF THEWORK. (B) ANY OTHER WRITTEN ORDER OR ORAL ORDER (WHICH, AS USED IN THIS PÁRAGRAPH (B), INCLUDES DIRECTION, INSTRUCTION, INTERPRETATION, OR DETERMINATION) FROM THE CONTRACTING OFFICER THAT CAUSES A CHANGE SHALL BE TREATED AS ACHANGE ORDER UNDER THIS CLAUSE: PROVIDED, THAT THE CONTRACTOR GIVES THE CONTRACTING OFFICER WRITTEN NOTICE STATING (1) THE DATE, CIRCUMSTANCES AND SOURCE OF THEORDER AND (2) THAT THE CONTRACTOR REGARDS THE ORDER AS ACHANGE ORDER. (C) EXCEPT AS PROVIDED IN THIS CLAUSE. NO ORDER. STATEMENT OR CONDUCT OF THE CONTRACTING OFFICER SHALL BE TREATED AS A CHANGE UNDER THIS CLAUSE OR ENTITLE THE CONTRACTOR TO AN EQUITABLE **ADJUSTMENT** (D) IF ANY CHANGE UNDER THIS CLAUSE CAUSES AN INCREASE OR DECREASE IN THE CONTRACTOR'S COST OF, OR THE TIME REQUIRED FOR THE PERFORMANCE OF ANY PART OF THE WORK UNDER THIS CONTRACT, WHETHER OR NOT CHANGED BY ANY SUCH ORDER, THE CONTRACTING OFFICER SHALL MAKE AN EQUITABLE ADJUSTMENTAND MODIFY THE CONTRACT IN WRITING. HOWEVER, EXCEPT FOR A ADJUSTMENT BASED ON DEFECTIVE SPECIFICATIONS, NO PROPOSAL FOR ANY CHANGE UNDER PARAGRAPH (B) ABOVE SHALL BE ALLOWED FORANY COSTS INCURRED MORE THAN 20 DAYS (5 DAYS FOR ORAL ORDERS) BEFORE THE CONTRACTOR GIVES WRITTEN NOTICE AS REQUIRED. IN THE CASE OF DEFECTIVE SPECIFICATIONS FOR WHICH THE PHA IS RESPONSIBLE, THE EQUITABLE ADJUSTMENTSHALL INCLUDE ANY INCREASED COST REASONABLY INCURRED BY THE CONTRACTOR IN ATTEMPTING TO COMPLY WITH THE DEFECTIVE SPECIFICATIONS. (E) THE CONTRACTOR MUST ASSERT ITS RIGHT TO AN ADJUSTMENTUNDER THIS . CLAUSE WITHIN 30 DAYS AFTER (1) RECEIPT OF A WRITTEN CHANGE ORDER UNDER PARAGRAPH (A) OF THIS CLAUSE.OR (2) THE FURNISHING OF A WRITTEN NOTICE UNDER PARAGRAPH(B) OF THIS CLAUSE, BY SUBMITTING A WRITTEN STATEMENT DESCRIBING THE GENERAL NATURE AND THE AMOUNT OF THE PROPOSAL. IF THE FACTS JUSTIFY IT. THE CONTRACTING OFFICER MAY EXTEND THE PERIOD FOR SUBMISSION THE PROPOSAL MAY BE INCLUDED IN THE NOTICE REQUIRED UNDER PARAGRAPH (B) ABOVE. NO PROPOSAL BY THE CONTRACTOR FOR AN EQUITABLE ADJUSTMENT SHALL BE ALLOWED IF ASSERTED AFTER FINAL PAYMENT UNDER THIS CONTRACT (F) THE CONTRACTOR'S WRITTEN PROPOSAL FOR EQUITABLE ADJUSTMENT

SHALL BE SUBMITTED IN THE FORM OF A LUMP SUMPROPOSAL SUPPORTED WITH AN ITEMIZED BREAKDOWN OF ALL INCREASES AND DECREASES IN THE CONTRACT IN AT LEAST THE FOLLOWING DETAILS: (1)DIRECT COSTS MATERIALS (LIST INDIVIDUAL ITEMS. THE QUANTITY AND UNIT COST OF EACH AND THE AGGREGATE COST); TRANSPORTATION AND DELIVERY COSTS ASSOCIATED WITH MATERIALS; LABOR BREAKDOWNS BY HOURS OR UNIT COSTS (IDENTIFIED WITH SPECIFIC WORK TO BE PERFORMED); CONSTRUCTION EQUIPMENT EXCLUSIVELY NECESSARY FOR THE CHANGE: COSTS OF PREPARATION AND/ OR REVISION TO SHOP DRAWINGS RESULTING FROM THE CHANGE; WORKER'S COMPENSATION AND PUBLIC LIABILITY INSURANCE; EMPLOYMENT TAXES UNDER FICA AND FUTA; AND, BOND COSTS WHEN SIZE OF CHANGE WARRANTS REVISION. (2)INDIRECT COSTS. INDIRECT COSTS MAY INCLUDE OVERHEAD GENERAL AND ADMINISTRATIVE EXPENSES AND FRINGE BENEFITS NOT NORMALLY TREATED AS DIRECT COSTS (3)PROFIT THE AMOUNT OF PROFIT SHALL BE NEGOTIATED AND MAY VARY ACCORDING TO THE NATURE, EXTENT, AND COMPLEXITY OF THE WORK REQUIRED BY THE CHANGE, THE ALLOWABILITY OF THE DIRECT AND INDIRECT COSTS SHALL BI DETERMINED IN ACCORDANCE WITH THE CONTRACT COST PRINCIPLES AND PROCEDURES FOR COMMERCIAL FIRMS IN PART 31 OF THE FEDERAL ACQUISITION REGULATION (48 CFR 1-31), AS IMPLEMENTED BY HUD HANDBOOK 2210.18, IN EFFECT ONTHE DATE OF THIS CONTRACT. THE CONTRACTOR SHALL NOT BE ALLOWED A PROFIT ON THE PROFIT RECEIVED BY ANY SUBCONTRACTOR. EQUITABLE ADJUSTMENTS FOR DELETED WORK SHALL INCLUDE A CREDIT FOR PROFIT AND MAY INCLUDE A CREDIT FOR INDIREC COSTS, ON PROPOSALS COVERING BOTH INCREASES AND DECREASES IN THE AMOUNT OF THE CONTRACT. THE APPLICATION OF INDIRECT COSTS AND PROFIT SHALL BE ON THE NET-CHANGE INDIRECT COSTS FOR THE CONTRACTOR OR SUBCONTRACTOR PERFORMING THE WORK. (G)THE CONTRACTOR SHALL INCLUDE IN THE PROPOSAL ITS REQUESTFOR TIME EXTENSION (IE ANY) AND SHALL INCLUDE SUFFICIENT INFORMATION AND DATES TO DEMONSTRATE WHETHER AND TO WHAT EXTENT THE CHANGE WILL DELAY THE COMPLETION OF THE CONTRACT IN ITS ENTIRETY. (H)THE CONTRACTING OFFICER SHALL ACT ON PROPOSALS WITHIN 30DAYS AFTER THEIR RECEIPT, OR NOTIFY THE CONTRACTOR OF THE DATE WHEN SUCH ACTION WILL BE TAKEN. (I)FAILURE TO REACH AN AGREEMENT ON ANY PROPOSAL SHALL BE ADISPUTE UNDER THE CLAUSE ENTITLED DISPUTES HEREIN.NOTHING IN THIS CLAUSE, HOWEVER, SHALL EXCUSE THE CONTRACTOR FROM PROCEEDING WITH THE

DEMOLITION/ALTERATION NOTES

CONTRACT AS CHANGED.

CONTRACTING OFFICER

IF NOT ALREADY IDENTIFIED OR REMOVED, ANY MATERIALS DISCOVERED IN THE COURSE OF CONSTRUCTION THAT ARE DEEMED AS HAZARDOUS, SUCH AS BUT NOT LIMITED TO, ASBESTOS OR LEAD PAINTS, SHALL BE REMOVED, ENCAPSULATED OR LEFT IN ITS PRESENT CONDITION AS REQUIRED BY FEDERAL, STATE AND LOCAL CODES. GC TO NOTIFY HACP IF SUSPECTED MATERIALS ARE ENCOUNTERED. CONTRACTOR SHALL NOTIFY HACP IF SUSPECT MATERIAL IS ENCOUNTERED, AND UTILIZE THE APPROPRIATE TECHNIQUES, PROCEDURES AND DISPOSAL METHODS AS PER STANDARD PRACTICE, FEDERAL, STATE AND LOCAL CODES. REMOVAL OF HAZARDOUS MATERIALS NOT PREVIOUSLY IDENTIFIED SHALL BE AT AN EXTRA COST TO THE CONTRACT, EXCEPT THAT HACP SHALL HAVE THE OPPORTUNITY TO HAVE THE MATERIALS REMEDIATED AT ITS OWN EXPENSE.

(J)EXCEPT IN AN EMERGENCY ENDANGERING LIFE OR PROPERTY, NOCHANGE

SHALL BE MADE BY THE CONTRACTOR WITHOUT A PRIOR ORDER FROM THE

HAZARDOLIS MATERIALS REPORTS ARE AVAILABLE FOR REVIEW BY GC. WHERE RECOMMENDED BY THE HACP HAZARDOUS MATERIAL CONSULTANT AS STATED ON THE REPORT, REMOVAL OR ENCAPSULATION SHOULD BE INCLUDED IN THE SCOPE OF THE GENERAL CONTRACT.

ABANDONED OR REMOVED EQUIPMENT
ALL PLUMBING, DUCT WORK, ROOF TOP UNITS, SEWER & WATER LINES TO BE REMOVED MUST BE CAPPED AND REMOVED TO THE POINT OF CONNECTION TO BUILDING MAIN UTILITY LOCATION - NO EXCEPTIONS. GENERAL CONTRACTOR TO VERIFY WITH HACP REPRESENTATIVE AND ARCHITECT PRIOR TO ANY SUCH WORK, INCLUDING ROOF PENETRATIONS. EACH PRIME CONTRACTOR SHALL REMOVE ALL THEIR RESPECTIVE EXISTING MECHANICAL EQUIPMENT DUCTWORK, PLUMBING FIXTURES, PIPING SYSTEMS, WIRING, ETC., NOT BEING REUSED.... DO NOT ABANDON IN PLACE.

EACH PRIME CONTRACTOR IS RESPONSIBLE TO VERIFY VISUALLY ALL CONDITIONS RELATIVE TO SERVICE REQUIREMENTS AND CODE CONFORMANCE FOR THIS SPACE, AND TO COORDINATE ALL WITH HACPS REPRESENTATIVE REPORT ANY DEVIATION FROM INFORMATION ON DRAWINGS TO ARCHITEC' PRIOR TO COMMENCING WORK. FAILURE TO DO SO WILL RESULT IN CONTRACTOR BEING HELD RESPONSIBLE FOR ANY COSTS FOR SUBSEQUENT

ECTIVE DEMOLITION DEMOLISH AND REMOVE EXISTING CONSTRUCTION ONLY TO THE EXTENT REQUIRED BY NEW CONSTRUCTION AND AS INDICATED ON THE DRAWINGS. USE METHODS REQUIRED TO COMPLETE THE WORK WITHIN LIMITATIONS OF GOVERNING REGULATIONS.

CONDUCT SELECTIVE DEMOLITION AND DEBRIS-REMOVAL OPERATIONS TO ENSURE MINIMUM INTERFERENCE WITH ROADS, STREETS, WALKS, WALKWAYS, AND OTHER ADJACENT OCCUPIED AND USED FACILITIES.

PROTECT CONSTRUCTION INDICATED TO REMAIN AGAINST DAMAGE AND SOILING DURING SELECTIVE DEMOLITION. WHEN PERMITTED BY ARCHITECT, ITEMS MAY BE REMOVED TO A SUITABLE, PROTECTED STORAGE LOCATION DURING SELECTIVE DEMOLITION AND CLEANED AND REINSTALLED IN THEIR ORIGINAL LOCATIONS AFTER SELECTIVE DEMOLITION OPERATIONS ARE COMPLETE, EACH INDIVDUAL PRIME CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIING ANY DAMAGE CAUSED BY THEIR OWN ACTIVITIES OR REQUIRED

CLEANLINESS OF JOB SITE, PROTECTION OF PREMISES, AFTER HOURS WORK THE ENTIRE AREA OF WORK IS TO BE MAINTAINED IN A NEAT AND ORDERLY MANNER AT ALL TIMES AND POLICED AT THE END OF EACH WORK DAY TO PREVENT ACCUMULATION OF TRASH AND DERBRIS. ALL MATERIALS SHALL BI DISPOSED FOLLOWING LOCAL REGULATIONS AND LEGALLY. ALL MATERIALS SHALL BE STACKED NEATLY IN CENTRAL LOCATIONS APPROVED BY THE HACP AND/OR THE GENERAL CONTRACTOR. IE CONTRACTORS DO NOT MAINTAIN PROPER ORDER OR REQUIRE CONTINUED NOTICE TO COMPLY HEREWITH HACP MAY AFTER 24 HOURS WRITTEN NOTICE TO THE INDIVIDUAL OFFENDING CONTRACTOR, HIRE THE NECESSARY LABOR TO ADEQUATELY CLEAN CHARGES FOR SUCH WORK SHALL BE DEDUCTED FROM PAYMENTS DUE THE CONTRACTOR. CONTRACTOR AND HIS/HER SUBCONTRACTORS MUST LEAVE THEIR WORK IN A NEAT AND CLEAN CONDITION READY FOR WORK TO BE PERFORMED BY OTHERS. THE GENERAL CONTRACTOR SHALL PROVIDE DUMPSTERS AS REQUIRED.

CONTRACT CLOSEOUT: THE CONTRACTOR SHALL NOTIFY THE ARCHITECT AND HACP'S

REPRESENTATIVE TO PERFORM A PRELIMINARY FINAL INSPECTION. A PUNCH LIST OUTLINING WORK TO BE CORRECTED, FINISHED, PERFORMED OR

OUTLINED ON THE INITIAL PUNCH LIST SHALL BE COMPLETED BY THE CONTRACTOR PRIOR TO THE FINAL INSPECTION AND BEFORE THE PROJECT WILL BE ACCEPTED FOR FINAL COMPLETION. AFTER ALL REQUIREMENTS PREPARATORY TO THE FINAL INSPECTION HAVE BEEN COMPLETED, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER TO PERFORM A FINAL INSPECTION. IF ALL THE WORK HAS BEEN COMPLETED, INCLUDING PUNCH LIST ITEMS FROM EARLIER INSPECTIONS, AND NO FURTHER CORRECTIONS ARE REQUIRED THE ARCHITECT SHALL RECOMMEND FINAL ACCEPTANCE OF THE PROJECT WHEN ALL THE CLOSEOUT DOCUMENTS ARE RECEIVED. INCLUDING BUT NOT LIMITED TO:WARRANTIES O&M MANUALS FINAL TESTING CERTIFICATES, PERMITS, PUNCH LIST, SUBMITTALS, RFIS, AS BUILD DRAWINGS

COMPLETED SHALL BE SUBMITTED BY EACH PRIME CONTRACTOR. ALL WORK

ALL PUNCH LIST ITEMS TO BE COMPLETED WITHIN THIRTY (30) WORKING DAYS OF RECEIPT, OR FINAL 10% DRAW WILL BE FORFEITED. ALL WORK NOT COMPLETED WITHIN THE ALLOTTED TIME WILL BE COMPLETED BY HACP AT PRIME CONTRACTOR'S EXPENSE. FINAL COMPLETION OCCURS WHEN ALL PUNCH LIST ITEMS HAVE BEEN COMPLETED AND OCCUPANCY PERMIT HAS BEEN ISSUED.

AND ANY ADDITIONAL DOCUMENTATION REQUIRED BY HACP FOR CLOSEOUT.

PRIME CONTRACTOR SHALL BE RESPONSIBLE FOR THE START UP OF ALL EQUIPMENT FURNISHED. INSTALLED OR SERVICED UNDER THIS AND THEIR CONTRACT/S. EACH PRIME CONTRACTOR SHALL VERIFY THAT IT'S EQUIPMENT. FLECTRICAL SYSTEMS AND APPLIANCES ARE FUNCTIONAL AND OPERATIONAL AND THAT ALL PLUMBING AND HVAC FOLIPMENT IS OPERATING OUIFTLY AND FREE FROM VIBRATION. CONTRACTOR SHALL PROVIDE TWO PHYSICAL BINDERS, ONE FOR HACP AND ONE FOR TENANT CONTAINING MAINTENANCE MANUALS, INCLUDING OPERATION INSTRUCTIONS, SPARE PARTS, WARRANTIES, INSPECTION PROCEDURES, AND DATA FOR EACH SYSTEM OR EQUIPMENT ITEM.

ALL ELECTRICAL PANELS AND BREAKERS TO BE PROPERLY MARKED AND A TYPED SCHEDULE TO BE FURNISHED.

FINAL CLEANING: AT THE TIME OF THE PROJECT CLOSE OUT, THE GENERAL CONTRACTOR SHALL THOROUGHLY CLEAN AND READY THE SPACE FOR OCCUPANCY. THIS SHALL, AT MINIMUM, INCLUDE HARDWARE, LIGHT FIXTURES, REPLACEMENT OF BURNED OUT LAMPS. REMOVAL OF NON PERMANENT PROTECTION AND LABELS TOUCH UP OF ANY MINOR FINISH DAMAGE AND CLEANING OR REPLACEMENT OF MECHANICAL SYSTEM FILTERS. DAMAGE TO ANY FINISH SURFACE FOUIPMENT OR OBJECT CAUSED DURING CLEANING SHALL BE REPAIRED OR REPLACED BY THE GENERAL CONTRACTOR AT HIS/HER

UPON COMPLETION OF THE PROJECT, GENERAL CONTRACTOR SHALL OBTAIN A CERTIFICATE OF OCCUPANCY FROM THE BUILDING DEPARTMENT AND PROVIDE A COPY OF THE ORIGINAL TO HACP AND ARCHITECT.

AT EACH PAYMENT REQUEST AND BEFORE PAYMENT IS MADE. EACH CONTRACTOR SHALL DELIVER TO THE HACP A COMPLETE RELEASE OF ALL SUB CONTRACTOR'S AND SUPPLIER'S LIENS ARISING OUT OF THIS CONTRACT, OR RECEIPTS IN FULL COVERING ALL LABOR AND MATERIALS FOR WHICH A LIEN COULD BE FILED OR A BOND SATISFACTORY TO THE HACP INDEMNIFYING HACP AGAINST ANY LIENS.

<u>DIVISION 2 – SITE WORK</u> – NOT APPLICABLE <u>DIVISION 3 – CONCRETE</u> - NOT APPLICABLE

DIVISION 4 – MASONRY

BRICK MASONRY REPOINTING

BRICK MASONRY REPOINTING SPECIALIST QUALIFICATIONS: ENGAGE AN EXPERIENCED BRICK MASONRY REPOINTING FIRM TO PERFORM WORK OF THIS SECTION. FIRM SHALL HAVE COMPLETED WORK SIMILAR IN MATERIAL, DESIGN, AND EXTENT TO THAT INDICATED FOR THIS PROJECT WITH A RECORD OF SUCCESSFUL IN-SERVICE PERFORMANCE. EXPERIENCE IN ONLY INSTALLING MASONRY IS INSUFFICIENT EXPERIENCE FOR MASONRY REPOINTING WORK.

FOLLOWING DEFECTS: A. HOLES AND MISSING MORTAR B. CRACKS THAT CAN BE PENETRATED 1/4 INCH OR MORE BY A KNIFE

REPOINTING OF AREAS INDICATED IN THE DRAWINGS AND LOCATIONS WITH THE

BLADE 0.027 INCH THICK. C.CRACKS 1/8 INCH OR MORE IN WIDTH AND OF ANY DEPTH. D.HOLLOW-SOUNDING JOINTS WHEN TAPPED BY METAL OBJECT.

E. ERODED SURFACES 1/4 INCH OR MORE DEEP. F. DETERIORATION TO POINT THAT MORTAR CAN BE EASILY REMOVED BY HAND, G. JOINTS FILLED WITH SUBSTANCES OTHER THAN MORTAR.

MATERIALS PORTLAND CEMENT: ASTM C 150/C 150M. TYPE I OR TYPE II. EXCEPT TYPE III MAY BE USED FOR COLD-WEATHER CONSTRUCTION; GRAY, WHERE REQUIRED FOR COLOR MATCHING OF MORTAR.

MASONRY CEMENT: ASTM C 91/C 91M. MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS. AVAILABLE MANUFACTURERS OFFERING PRODUCTS THAT MAY BE INCORPORATED INTO THE WORK INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING: CEMEX S.A.B. DE C.V.

. HOLCIM (US) INC. QUIKRETE; THE QUIKRETE COMPANIES, LLC.

REMOVE GUTTERS, DOWNSPOUTS AND ASSOCIATED HARDWARE ADJACENT TO MASONRY REPOINTING. REINSTALL WHEN REPOINTING IS CLOMPLETED.PROVIDE TEMPORARY RAIN DRAINAGE DURING WORK TO DIRECT WATER AWAY FROM THE BUILDING.

SEE LINTEL REPLACEMENT BELOW AND COORDINATE MASONRY REPOINTING AND REPLACEMENT WITH REMEDIAL LINTEL REPAIR OR REPLACEMENT. **DIVISION 5 - METALS**

STEEL BEAMS, ANGLES AND PLATES
SHOP PRIMED WITH RUST PREVENTATIVE PAINT. DIMENSIONS AND GRADE TO

MATCH EXISTING, SHOP DRAWINGS TO BE PROVIDED BY GC. ALL EXTERIOR LINTELS MUST BE HOT-DIP GALVANIZED PER ASTM A123.

LINTEL REPLACEMENT/ INSTALLATION ON BRICK VENEER EXTERIOR WALLS EXISTING OPENING WITH PLYWOOD, TEMPORARILY SHORE AND REMOVE EXISTING BRICK ABOVE THE OPENING AT LEAST 6 INCHES ON EACH SIDE MINIMUM AND VERTICALLY AS NEEDED TO REMOVE EXISTING METAL ANGLE.REPLACED EXISTING LINTEL WITH NEW GALVANIZED STEEL ANGLE TO MATCH EXISTING LENGTH AND GAUGE, PROVIDE NEW FLASHING OVER NEW

LINTEL AND CAULK AGAINST HOUSE WRAP. REINSTALL EXISTING BRICK.

FOR LINTEL CLEANING USE METAL CLEANING ON NEXT SECTION.

AND WIRE BRUSHING, THAT WILL NOT ABRADE METAL SUBSTRATE.

METAL CLEANING EXECUTION OF THE WORK: IN CLEANING ITEMS, DISTURB THEM AS MINIMALLY AS POSSIBLE AND AS FOLLOWS:

REMOVE DETERIORATED COATINGS AND CORROSION. SEQUENCE WORK TO MINIMIZE TIME BEFORE PROTECTIVE COATINGS ARE REAPPLIED. CLEAN ITEMS IN PLACE UNLESS OTHERWISE INDICATED.

MECHANICAL COATING REMOVAL: USE GENTLE METHODS, SUCH AS SCRAPING

REPAINT: WHERE INDICATED, PREPARE PAINTED DECORATIVE METAL BY CLEANING SURFACE, REMOVING LESS THAN FIRMLY ADHERED EXISTING PAINT, SANDING EDGES SMOOTH, REMOVING EXISTING PAINT AND PRIMING FOR PAINTING AS SPECIFIED.

DIVISION 6 – WOOD AND PLASTICS

"MANUAL FOR HOUSING FRAMING."

SELECT STRUCTURAL GRADE DOUGLAS FIR SOUTH, SIZES AS INDICATED ON DRAWINGS. COMPLY WITH THE "RECOMMENDED NAILING SCHEDULE" OF THE

FLOOR SHEATHING (IF REQUIRED) - PROVIDE 3/4" T&G PLYWOOD FLOOR SHEATHING OR OSB STRUCTURAL FIBERBOARD. ALIGN PANELS ACROSS A MINIMUM OF TWO SUPPORTS WITH STRENGTH AXIS PERPENDICULAR TO AXIS OF JOISTS, STAGGER JOINTS. GLUE TO JOISTS AND EDGES WITH ELASTOMERIC SOLVENT-BASED GLUE CONFORMING TO APA SPECIFICATION AFG-101. FASTEN WITH 8D COMMON OR 6D ANNULAR OR SPIRAL NAILS AT 6" O.C. ALONG EDGES AND 10" ALONG INTERMEDIATE SUPPORTS. FOLLOW PANEL MANUFACTURER'S INSTALLATION RECOMMENDATIONS FOR SUB-FLOOR PREP, PRIOR TO INSTALLATION OF FINISH FLOORING.

EXTERIOR WOOD FRAMING EXPOSED TO WEATHERING AND INSECTS SHALL BE MINIMUM 2" X PRESSURE TREATED LUMBER. KILN DRIED TO 19% MOISTURE CONTENT BEFORE INSTALLATION.

PROVIDE FURNITURE GRADE SOLID HARDWOOD TRIM AND MOLDINGS. STAIN ALL SIDES AND ENDS. WOOD TRIM AND MOLDINGS TO MATCH EXISTING UNLESS OTHERWISE NOTED ON DRAWINGS.

INSTALL WOOD TRIM AND MOLDINGS WITH MITER AT CORNERS, MITERED LAP SPLICES, AND SET WITH COUNTER SUNK GALVANIZED FINISH NAILS CAPPED WITH WOOD PUTTY SANDED SMOOTH. COMPLY WITH AWI 300 FOR ALL STANDING AND RUNNING TRIM.

FIRM EXPERIENCED IN PRODUCING ARCHITECTURAL WOODWORK SIMILAR TO THAT INDICATED FOR THIS PROJECT AND WITH A RECORD OF SUCCESSFUL IN-SERVICE PERFORMANCE, AS WELL AS SUFFICIENT PRODUCTION CAPACITY TO PRODUCE REQUIRED UNITS WITHOUT DELAYING THE WORK.

INTERIOR ARCHITECTURAL WOODWORK

INSTALLER QUALIFICATIONS

Fukui Architects Pc

205 Ross Street Pittsburgh, Pennsylvania 15219 ph 412.281.6001 fx 412.281.6002

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ISSUED FOR BID & CONSTRUCTION

general notes

Any conflicts in the drawings or between new and existing construction shall be referred to the Architect.

2. Contractor shall verify all dimensions and existing conditions in the field and shall advise Fukui Architects, **Pc** of any discrepancies between, additions to, deletions from, or alterations to any and all conditions prior to proceeding with any phase of work. Do not scale drawings.

3. All work shall be installed in accordance with applicable codes and regulations.

4. Contractor shall be responsible for the patching, repairing, and preparations of all existing floor, wall, and ceiling surfaces as required to receive scheduled finishes.

5. All items shown on drawings are finished construction assemblies. Contractor shall provide and install all material required for finished assemblies.

6. All reports, plans, specifications, computer files, field data, notices, and other documents and instruments prepared by the Architect as instruments of service shall remain the property of the Architect. The Architect shall

retain all common law statutory, and other reserved rights, including the copyright thereto. revisions

SUBMIT FOR PERMIT 6.19.2024

PLI REVISIONS 7.31.2024

PLI REVISIONS 8.22.2024

SUBMIT FOR BID AND IFC 9.18.2024

RE-SUBMIT FOR BID AND IFC 6.19.2025

project title

Owner:

HACP 412 Boulevard of the Allies Pittsburgh,PA,15219

Client:

HACP 412 Boulevard of the Allies Pittsburgh, PA 15219

Project Location:

728 Montooth St. Rehabilitation 728 Montooth St. Pittsburgh, PA 15210

Outline Specifications Montooth

Sheet No. As Noted 05/24/2024

QUALITY STANDARD: UNLESS OTHERWISE INDICATED, COMPLY WITH AWI'S "ARCHITECTURAL WOODWORK QUALITY STANDARDS."

ENVIRONMENTAL LIMITATIONS: DO NOT DELIVER OR INSTALL WOODWORK UNTIL BUILDING IS ENCLOSED WET WORK IS COMPLETE AND HVAC SYSTEM IS OPERATING AND MAINTAINING TEMPERATURE AND RELATIVE HUMIDITY AT OCCUPANCY LEVELS DURING THE REMAINDER OF THE CONSTRUCTION PERIOD REFER TO AWI'S OR WI'S MEMBER LIST FOR NAMES OF WOODWORKING FIRMS THAT COULD POTENTIALLY BE INCLUDED.

MATERIALS

WOOD SPECIES AND CUT FOR TRANSPARENT FINISH: AS INDICATED ON

WOOD SPECIES FOR OPAQUE FINISH: ANY CLOSED-GRAIN HARDWOOD. GENERAL: COMPLETE FABRICATION TO MAXIMUM EXTENT POSSIBLE BEFORE SHIPMENT TO PROJECT SITE. WHERE NECESSARY FOR FITTING AT THE SITE,

PROVIDE ALLOWANCE FOR SCRIBING, TRIMMING, AND FITTING.

- INTERIOR WOODWORK GRADE: AWI CUSTOM. SHOP CUT OPENINGS TO MAXIMUM EXTENT POSSIBLE. SAND EDGES OF CUTOUTS TO REMOVE SPLINTERS AND BURRS. SEAL EDGES OF OPENINGS
- IN COUNTERTOPS WITH A COAT OF VARNISH. FOR TRANSPARENT-FINISHED TRIM ITEMS WIDER THAN AVAILABLE LUMBER. USE VENEERED CONSTRUCTION. DO NOT GLUE FOR WIDTH. BACK OUT OR GROOVE BACKS OF FLAT TRIM MEMBERS AND KERE BACKS. OF OTHER WIDE, FLAT MEMBERS, EXCEPT FOR MEMBERS WITH ENDS
- ASSEMBLE CASINGS IN PLANT EXCEPT WHERE LIMITATIONS OF ACCESS TO PLACE OF INSTALLATION.

DIVISION 7 - THERMAL AND MOISTURE PROTECTION

EXPOSED IN FINISHED WORK.

GENERAL CONTRACTOR TO EVALUATE STATUS OF ROOFING MATERIAL COMMUNICATE THE HACP AND ARCHITECT OF FINDINGS AND IF PATCHING OR REPLACEMENT IS NEEDED UNLESS NOTED OTHERWISE ON THE DRAWINGS.

INSTALL ASPHALT SHINGLES IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS AND RECOMMENDATIONS IN ARMA'S "ASPHALT ROOFING RESIDENTIAL MANUAL - DESIGN AND APPLICATION METHODS" AND NRCA'S "NRCA GUIDELINES FOR ASPHALT SHINGLE ROOF SYSTEMS."

ASPHALT SHINGLES: ASTM D3462/D3462M, LAMINATED, MULTI-PLY OVERLAY CONSTRUCTION; GLASS-FIBER REINFORCED, MINERAL-GRANULE SURFACED, AND SELF-SEALING. BY GAF OR EQUAL. STRAIGHT CUT. FINISH COLOR TO MATCH EXISTING OR AS SELECTED BY ARCHITECT FROM MANUFACTURER'S FULL RANGE. HACP TO APPROVE FINAL COLOR SELECTION. RIDGE VENT, IF REQUIRED TO MATCH ROOFING MATERIAL MANUFACTURER.

GC TO INSPECT FLASHING OF ROOF PENETRATIONS, PATCH AND REPLACE IF NEEDED TO COMPLY WITH CODE AND REGULATIONS.

SHEET METAL STANDARD FOR FLASHING AND TRIM: COMPLY WITH NRCA'S "THE NRCA ROOFING MANUAL: ARCHITECTURAL METAL FLASHING, CONDENSATION AND AIR LEAKAGE CONTROL, AND REROOFING" AND SMACNA'S "ARCHITECTURAL SHEET METAL MANUAL" REQUIREMENTS FOR DIMENSIONS AND PROFILES SHOWN UNLESS MORE STRINGENT REQUIREMENTS ARE

INSTALL SHEET METAL FLASHING AND TRIM TO COMPLY WITH DETAILS INDICATED AND RECOMMENDATIONS OF CITED SHEET METAL STANDARD THAT APPLY TO INSTALLATION CHARACTERISTICS REQUIRED UNLESS OTHERWISE INDICATED ON DRAWINGS

GC TO PROVIDE THERMAL INSULATION ON WALLS, CEILINGS AND FLOORS AS NOTED ON THE DRAWINGS

INSULATION TO COMPLY WITH THE ENERGY CODE IN MINIMUM R VALUES OR AS SPECIFIED ON DRAWINGS.

GC TO BE RESPONSIBLE TO INSPECTING, ADJUSTING AND ADDING INSULATION TO THE ENTIRE ATTIC SPACE TO INSURE CONTINUOUS INSULATION COVERAGE WITH NO GAPS. GC TO INFORM HACP AND ARCHITECT PRIOR TO ADD ADDITIONAL INSULATION.

ATTIC DOORS TO RECEIVED RIGID FOAM INSULATION GLUED TO BACK OF THE DOOR AND SEALED RUBBER JOINTS. INSULATION TO MATCH R VALUE OF CEILING ASSEMBLY.

ASSEMBLIES, SEPARATIONS & FIRESTOPPING:

ANY NEW DEMISING OR INTERIOR PARTITIONS SHALL BE RATED AS REQUIRED REQUIRED UL RATED ASSEMBLY WALL MUST RETAIN THE UL ASSEMBLY FIRE-

ALL NEW WORK SHALL MATCH OR EQUAL THE UL FIRE RATINGS, IF ANY, OF THE SURROUNDING WORK, AS APPROPRIATE. THE CONTRACTOR SHALL CONTACT HACP AND ARCHITECT IF ANY AREAS ARE UNCOVERED OR DISCOVERED THAT MAY REQUIRE ADDITIONAL ANALYSIS OR CLARIFICATION.

THROUGH PENETRATIONS OF FIRE RESISTANCE WALLS SHALL BE INSTALLED IN AN APPROVED FIRE-RESISTANCE-RATED ASSEMBLY PROTECTED BY AN APPROVED PENETRATION FIRESTOP SYSTEM INSTALLED AND TESTED BY AN INDEPENDENT TESTING AGENCY SUCH AS LINDERWRITERS LABORATORIES. IF THE PENETRATING ITEMS ARE STEEL FERROLIS OR COPPER PIPES OR STEEL CONDUITS, THE ANNULAR SPACE BETWEEN THE PENETRATING ITEM AND THE FIRE-RESISTANCE-WALL SHALL BE PERMITTED TO BE PROTECTED AS FOLLOWS:

IN CONCRETE OR MASONRY WALLS WHERE THE PENETRATING ITEM IS A MAXIMUM 6-INCH NOMINAL DIAMETER AND THE OPENING IS A MAXIMUM 144 SQUARE INCHES, CONCRETE, GROUT, OR MORTAR SHALL BE PERMITTED WHERE INSTALLED THE FULL THICKNESS OF THE WALL OR THE THICKNESS REQUIRED TO MAINTAIN THE FIRE-RESISTANCE RATING.

THE MATERIAL USED TO FILL THE ANNULAR SPACE SHALL PREVENT THE PASSAGE OF FLAME AND HOT GASES SUFFICIENT TO IGNITE COTTON WASTE WHERE SUBJECTED TO ASTME 119 TIME-TEMPERATURE FIRE CONDITIONS UNDER A MINIMUM POSITIVE PRESSURE DIFFERENTIAL OF 0.01 INCH (2.49 PA) OF WATER AT THE LOCATION OF THE PENETRATION FOR THE TIME PERIOD EQUIVALENT TO THE FIRE-RESISTANCE RATING OF THE WALL ASSEMBLY.

MEMBRANE PENETRATIONS, WHERE WALL AND PARTITIONS ARE REQUIRED TO HAVE A MINIMUM 1-HOUR FIRE-RESISTANCE RATING, RECESSED FIXTURES SHALL BE INSTALLED SUCH THAT THE REQUIRED FIRE RESISTANCE WILL NOT

FOR STEEL BOXES THAT DO NOT EXCEED 16 SQUARE INCHES IN AREA PROVIDED THE TOTAL AREA OF SUCH OPENINGS DOES NOT EXCEED 100 SQUARE INCHES FOR ANY 100 SQUARE FEET OF WALL AREA. OUTLET BOXES ON OPPOSITE SIDES OF THE WALL SHALL BE SEPARATED BY A HORIZONTAL DISTANCE OF NOT LESS THAN 24 INCHES: A HORIZONTAL DISTANCE OF NOT LESS THAN THE DEPTH OF THE WALL CAVITY WHERE THE WALL CAVITY IS FILL WITH CELLULOSE LOOSE FILL, ROCKWOOL OR SLAG MINERAL WOOL INSULATION: SOLID FIREBLOCKING (CONSISTING OF 2-INCH NOMINAL LUMBER OR TWO THICKNESSES OF 1-INCH NOMINAL LUMBER WITH BROKEN LAP JOINTS OR ONE THICKNESS OF 0.179-INCH WOOD STRUCTURAL PANEL WITH JOINTS BACKED BY 0.719-INCH WOOD STRUCTURAL PANEL OR ONE THICKNESS OF 0.75-INCH PARTICLEBOARD WITH JOINTS BACKED BY 0.75-INCH PARTICLEBOARD. GYPSUM BOARD, CEMENT FIBER BOARD, BATTS OR BLANKETS OF MINERAL WOOL OR GLASS FIBER OR OTHER APPROVED MATERIALS INSTALLED IN SUCH A MANNER AS TO BE SECURELY RETAINED IN PLACE SHALL BE PERMITTED AS AN ACCEPTABLE FIREBLOCK. BATTS OR BLANKETS OF MINERAL OR GLASS FIBER OR OTHER APPROVED NONRIGID MATERIALS SHALL BE PERMITTED FOR COMPLIANCE WITH THE 10-FOOT HORIZONTAL FIREBLOCKING IN WALLS CONSTRUCTED USING PARALLEL ROW OF STUDS OR STAGGERED STUDS. LOOSE-FILL INSULATION MATERIAL SHALI NOT BE USED AS A FIREBLOCK UNLESS SPECIFICALLY TESTED IN THE FORM AND MANNER INTENDED FOR USE TO DEMONSTRATE ITS ABILITY TO REMAIN IN PLACE AND TO RETARD THE SPREAD OF FIRE AND HOT GASES. THE INTEGRITY OF FIREBLOCKS SHALL BE MAINTAINED); PROTECTING BOTH OUTLET BOXES BY LISTED PUTTY PADS OR OTHER LISTED MATERIALS AND METHODS.

MEMBRANE PENETRATIONS FOR LISTED ELECTRICAL OUTLET BOXES OF ANY MATERIAL ARE PERMITTED PROVIDED SUCH BOXES HAVE BEEN TESTED FOR USE IN FIRE-RESISTANCE-RATED ASSEMBLIES AND ARE INSTALLED IN ACCORDANCE WITH THE INSTRUCTIONS INCLUDED IN THE LISTING. OUTLET BOXES ON OPPOSITE SIDES OF THE WALL SHALL BE SEPARATED BY A HORIZONTAL DISTANCE OF NOT LESS THAN 24-INCHES; SOLID FIREBLOCKING; PROTECTING BOTH OUTLET BOXES BY LISTED PUTTY PADS OR OTHER LISTED MATERIALS AND METHODS.

MEMBRANE PENETRATIONS BY STEEL, FERROUS OR COPPER CONDUITS, ELECTRICAL BOXES. PIPES. TUBES. VENTS. CONCRETE. MASONRY-PENETRATING ITEMS WHERE THE ANNULAR SPACE IS PROTECTED EITHER IN ACCORDANCE OR TO PREVENT THE FREE PASSAGE OF FLAME AND THE PRODUCTS OF COMBUSTION. SUCH PENETRATIONS SHALL NOT EXCEED AN AGGREGATE AREA OF 100 SQUARE INCHES IN ANY 100 SQUARE FEET OF CEILING AREA IN ASSEMBLIES TESTED WITHOUT PENETRATIONS.

MEMBRANE PENETRATIONS BY LISTED ELECTRICAL OUTLET BOXES OF ANY MATERIAL THAT HAS BEEN TESTED FOR USE IN FIRE-RESISTANCE-RATED ASSEMBLIES AND ARE INSTALLED PER INSTRUCTIONS INCLUDED IN LISTING.

INTERIOR JOINT SEALER IS TO BE MILDEW-RESISTANT SILICONE SEALANT. APPLY SEALANT AT ALL MATERIAL JOINTS SUBJECT TO WATER PENETRATION. COLOR TO BE SELECTED BY THE ARCHITECT FROM MFR'S STANDARD LINE.

HORIZONTAL PATTERN: 6-1/2- OR 7-INCH EXPOSURE IN BEADED-EDGE, SINGLE-

BOARD STYLE, SMOOTH TEXTURE, COLOR AS SELECTED BY ARCHITECT FROM

VINYL SIDING: INTEGRALLY COLORED PRODUCT COMPLYING WITH ASTM D3679. BASIS-OF-DESIGN PRODUCT: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE ALSIDE EXTERIOR BUILDING PRODUCTS, KAYCAN LTD., ROYAL BUILDING PRODUCTS. A WESTLAKE COMPANY, OR EQUAL.

BASIS OF DESIGN, BY SIKA OR EQUAL, 60 MIL. REFER TO MANUFACTURERS INSTRUCTION FOR PREPARATION OF SUBSTRATES AND INSTALLATION OF

MANUFACTURER'S FULL RANGE OR TO MATCH EXISTING WHEN REQUIRED.

DIVISION 8 - DOORS, WINDOWS AND HARDWARE

ALL DOORS AND WINDOWS SHALL BE INSTALLED PLUMB, LEVEL, SQUARE, AND PER ALL MANUFACTURERS RECOMMENDATION.

EXTERIOR DOORS TO BE 1.3/4"THICK FIBERGLASS INSULATED WITH 3 SETS OF STEEL HINGES. RUBER WEATHER STRIPPING. LOCKING AS SPECIFIED ON HARDWARE, FINISH AS SELECTED BY ARCHITECT FROM MANUFACTURER'S FULL RANGE, MANUFACTURER MASONITE OR EQUAL

INTERIOR DOORS SOLID CORE FIVE PLY VENEER FACED, 1 3/8" THICK, 1 PAIR OF HINGES, HARDWARE TO MATCH EXISTING, VENEER FINISH TO MATCH EXISTING OR AS SELECTED BY ARCHITECT FROM MANUFACTURER'S FULL RANGE.MANUFACTURER MASONITE OR EQUAL.

INTERIOR GLAZING SHALL BE AS SPECIFIED ON THE DRAWINGS.

TEMPERED OR SAFETY GLAZING IS TO BE PROVIDED AS FOLLOWS: 1) IN DOORS, 2) WITHIN 12" OF A DOOR AND WHOSE BOTTOM EDGE IS LESS THAN 60" ABOVE THE FLOOR OR WALKING SURFACE, 3) IN FIXED PANELS WITH THE LOWEST EDGE LESS THAN 18" ABOVE THE FLOOR OR WALKING SURFACE WITHIN 36" OF SUCH

INTERIOR DOOR HARDWARE

ALL DOOR HARDWARE TO BE APPROVED BY HACP FACILITY REPRESENTATIVE.

MANUFACTURER BALDWIN OR EQUAL, ROUND KNOB TRADITIONAL ROUND, MODEL PS.ROU.TRR.150. FINISH TO MATCH EXISTING OR SATIN NICKEL IF ALL INTERIOR DOOR HARDWARE IS REPLACED. OPERATION TYPE: DUMMY, PRIVACY

BASIS OF DESIGN ACCESIBLE UNITS MANUFACTURER BALDWIN OR EQUAL. TOBIN LEVER WITH ROUND ROSE. MODEL 352TBL-RDB-15 FINISH TO MATCH EXISTING OR SATIN NICKEL IF ALL INTERIOR DOOR HARDWARE IS REPLACED. OPERATION TYPE: DUMMY, PRIVACY AND PASSAGE.

OPERATION LOCATION: DUMMY: CLOSET DOORS THAT ARE NOT SWINGING DOORS PRIVACY: BATHROOMS PASSAGE: BEDROOMS, CLOSETS WITH SWINGING DOOR

EXTERIOR DOOR HARDWARE

ALL DOOR HARDWARE TO BE APPROVED BY HACP FACILITY REPRESENTATIVE.

D100 GRADE 1 DEADBOLT BY FALCON, SATIN CHROME FINISH. ALL EXTERIOR, STORAGE AND MAINTENANCE DOOR TO HAVE 6 PIN FALCON

ENTRANCE LEVER TO BE FALCON W SERIES GRADE 2 CYLINDRICAL LOCK, LEVER TO BE AVALON AND KNOB TO BE COINTURN STYLE, SATIN CHORME FINISH. UNLESS NOTED OTHERWISE, THE FINISH OF THE NEW HARDWARE SHOULD

ADJUSTMENT: ADJUST AND CHECK EACH OPAERATING ITEM OF DOOR HARDWARE AND EACH DOOR TO ENSURE PROPER OPERATION OR FUNCTION OF EVERY UNIT. REPLACE UNITS THAT CANNOT BE ADJUSTED TO OPERATE AS INTENDED. ADJUST DOOR CONTROL DEVICES TO COMPENSATE FOR FINAL OPERATION OF HEATING AND VENTILATING EQUIPMENT AND TO COMPLY WITH

DOOR AND WINDOW SEALANTS SEALANTS FOR DOORS AND WINDOWS TO BE SILICONE BY SIKA, TREMCO OR

REPLACEMENT WINDOWS TO MATCH EXISTING STYLE AND FINISH. ALL WINDOWS

TO BE APPROVED BY HACP FACILITY REPRESENTATIVE BASIS OF DESIGN, ANDERSEN WINDOWS OR EQUAL, VINYL WINDOW REPLACEMENT, FINISH TO MATCH EXISTING OR WHITE. LOW E GLAZING WITH ARGON TO MATCH THERMAL PERFORMANCE FENESTRATION OF U 0.3 MAX. PROVIDE SCREENS ON OPERABLE WINDOWS, SCREEN FRAME FINSIH TO MATCH WINDOW. OPERATION TO MATCH EXISTING WINDOW TO BE REPLACED.

THERMAL PERFORMANCE OF FENESTRATION:

REFERENCED ACCESSIBILITY REQUIREMENTS.

MAX FENESTRATION: U 0.3MAX SOLAR HEAT GAIN COEFFICIENT FOR ALL VERTICAL GLAZING: NR

SKYLIGHTS: U 0.55 MAX **DIVISION 9 - FINISHES**

ALL FINISH TRIM TO BE PAINT GRADE POPLAR OR OTHER TIGHT-GRAINED HARDWOOD, SMOOTH SANDED FINISHED WITH SCARFED JOINTS, GLUED AND NAILED. NO BUTT JOINTS.

GYPSUM BOARD TO BE FINISHED AS SPECIFIED ACCORDING TO THE FOLLOWING:

STANDARD FINISH (LEVEL 4 PER GA 216-96): ALL JOINTS AND INTERIOR ANGLES HAVE TAPE EMBEDDED IN JOINT COMPOUND AND TWO SEPARATE COATS OF JOINT COMPOUND APPLIED OVER ALL FLAT JOINTS AND ONE SEPARATE COAT OF JOINT COMPOUND APPLIED OVER INTERIOR ANGLES. FASTENER HEADS AND ACCESSORIES SHALL BE COVERED WITH THREE SEPARATE COATS OF JOINT COMPOUND. ALL JOINT COMPOUND SHALL BE SMOOTH AND FREE FROM TOOL MARKS AND RIDGES. BEFORE FINAL DECORATION PREPARE SURFACE BE COATED WITH A DRYWALL PRIMER PRIOR TO THE APPLICATION OF FINAL

TREAT GYPSUM BOARD JOINTS, INTERIOR ANGLES, EDGE TRIM, CONTROL JOINTS. PENETRATIONS. FASTENER HEADS. SURFACE DEFECTS. AND ELSEWHERE AS REQUIRED TO PREPARE GYPSUM BOARD SURFACES FOR DECORATION PROMPTLY REMOVE RESIDUAL JOINT COMPOUND FROM ADJACENT SURFACES. PREFILL OPEN JOINTS, ROUNDED OR BEVELED EDGES. AND DAMAGED SURFACE AREAS. APPLY JOINT TAPE OVER GYPSUM BOARD JOINTS, EXCEPT THOSE WITH TRIM HAVING FLANGES NOT INTENDED FOR TAPE.

ALL INTERIOR GYPSUM BOARD WALLS AND CEILINGS TO BE 1/2" THICK BY USG OR EQUAL UNLESS NOTED OTHERWISE. SUPPLY AND INSTALL 1/2" "AQUATOUGH" BY USG OR EQUAL AT ALL LOCATIONS UNLESS THE WET LOCATIONS. ON GARAGE CEILINGS UNDER LIVING SPACES SUPPLY AND INSTALL 5/8" TYPE X TO COVER CEILING AND DUCTWORK BY USG OR EQUAL UNLESS

ALL PARTITIONS ARE TO BE SET IN CAULK.

ALL WORK TO BE COMPLETED IN A FIRST CLASS MANNER WITH NO EXPOSED. UNFINISHED EDGES, NAILS, SCREWS, ETC.

ALL EXTERIOR SURFACES IDENTIFIED TO BE PAINTED SHALL RECEIVE 3-COAT SYSTEM. INCLUDING ONE PRIME COAT (WHERE NOT PROVIDED BY FACTORY) AND TWO FINISH COATS EXTERIOR ENAMEL AS APPROPRIATE FOR SUBSTRATE.

ALL INTERIOR DRYWALL AND PLASTER SURFACES SHALL RECEIVE A 3-COAT SYSTEM, INCLUDING ONE COAT PRIMER SEALER OR AS RECOMMENDED BY PAINT MANUFACTURER (COLORED TO MATCH FINISH TOPCOAT), AND TWO FINISH COATS. PAINT SHALL BE INTERIOR GRADE LATEX PAINT BY SHERWIN WILLIAMS, PITTSBURGH PAINTS, OR APPROVED EQUIVALENT. ALL COLORS TO BE SELECTED BY ARCHITECT FROM MANUFACTURERS FULL LINE OF COLORS.

CEILINGS TO RECEIVE FLAT FINISH PAINT- UNLESS NOTED OTHERWISE. WALLS TO RECEIVE EGG-SHELL FINISH - UNLESS NOTED OTHERWISE. TRIM AND DOORS SHALL RECEIVE SEMI-GLOSS FINISH.

BASIS-OF-DESIGN INTERIOR PRODUCT: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE NEOGARD, A PART OF HEMPEL; NEOFLEX NEOCRYLIC HB WALL-GARD HD, SERIES 1 WALL-GARD HD, SERIES 2 WITH REINFORCED FABRIC LAYER BASECOAT AND TOPCOAT SYSTEM OR COMPARABLE PRODUCT BY ONE OF THE FOLLOWING: PPG PAINTS, SHERWIN-WILLIAMS COMPANY OR

CLEAN SUBSTRATES OF SUBSTANCES THAT COULD IMPAIR BOND OF COATINGS, INCLUDING DUST, DIRT, OIL, GREASE, AND INCOMPATIBLE PAINTS AND

CONCRETE SUBSTRATES: REMOVE RELEASE AGENTS, CURING COMPOUNDS, EFFLORESCENCE, AND CHALK.

DO NOT COAT SURFACES IF MOISTURE CONTENT OR ALKALINITY OF SURFACES TO BE COATED EXCEEDS THAT PERMITTED IN COATING MANUFACTURER'S WRITTEN INSTRUCTIONS.

TILE & FLOORS PROPERLY PREPARE SUB FLOOR TO RECEIVE SPECIFIED FINISH FLOORING.

ON VERTICAL SURFACES, TILE MAY BE SET OVER 1/2" MOISTURE RESISTANT DRYWALL ABOVE 6 FEET. FASTEN BACKER USING CORROSION RESISTANT STEEL DRILL SCREWS AS RECOMMENDED BY MANUFACTURER. TAPE ALL JOINTS AS RECOMMENDED BY MANUFACTURER USING POLYMER-COATED OPEN GLASS-FIBER MESH. TILE SETTING MATERIAL SHALL BE A LATEX-PORTLAND CEMENT MORTAR WITH A DRY POLYMER ADDITIVE. TILE GROUT SHALL BE EPOXY GROUT. VERIFY WITH MANUFACTURER'S INSTALLATION RECOMMENDATIONS. PROVIDE EXPANSION JOINTS AT ALL INTERIOR CORNERS BOTH HORIZONTALLY AND VERTICALLY SEAL WITH ONE PART MILDEW RESISTANT SILICONE SEALANT. FOLLOW "TILE COUNCIL OF AMERICA 2003 EDITION HANDBOOK FOR THE CERAMIC TILE INSTALLATION".

GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING FLOORS PREPPED AND LEVEL READY TO RECEIVE SCHEDULED FLOOR FINISH. CONCRETE SLAB SURFACES SHALL BE CLEANED AND MADE SMOOTH WITH LEVELING COMPOUND AND SUBSTRATE PRIMER PRIOR TO THE INSTALLATION. OF ANY TILE OR CARPET. ALL PREPARATORY WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE FLOORING MANUFACTURER'S RECOMMENDATIONS AND INSTRUCTIONS.

BASIS OF DESIGN: PROVIDE LUXE PLANK AND TILE WITH FASTAK INSTALLATION LUXURY VINYL TILE BY ARMSTRONG COMMERCIAL FLOORINGS OR EQUAL. APPROVAL BY ARCHITECT AND HACP REQUIRED.

THICKNESS: 12 MIL WEAR LAYER X 4 MM OVERALL THICKNESS, NO WAX. SIZE: 7 INCHES BY 48 INCHES AND 18 INCHES BY 18 INCHES.

COLORS AND PATTERNS: ARCHITECT TO SELECT FROM MANUFACTURER'S FULL RANGE OF COLORS AND SIZES AND TO BE APPROVED BY HACP.

FLOOR SURFACE IS TO BE PROPERLY PREPARED WITHOUT HOLES, CRACKS, OR BUMPS. ALL EDGE CONDITIONS TO BE FLOATED UP FOR SMOOTH EVEN FLUSH

DIVISION 10 – NOT APPLICABLE

DIVISION 11 - EQUIPMENT

MANUFACTURER TO PROVIDE WARRANTY TO REPAIR AND REPLACE RESIDENTIAL APPLIANCES OR COMPONENTS THAT FAIL IN MATERIALS OR WORKSMANSHIP PER HUD GENERAL CONDITIONS.

COOKING APPLIANCES- BASIS OF DEISGN

 GAS RANGE FREESTANDING SLIDE IN RANGE WITH ONE OVEN, 4 GAS BURNERS, FINISH STANDARD WHITE, BY GE, DACOR, BOSCH OR EQUAL TO FIT EXISTING SPACE. GC TO PROVIDE UNIT DIMENSIONS AND VERIFY THAT FITS IN THE EXISTING SPACE, ANTI TIP DEVICE TO BE MANUFACTURER STANDARD. KITCHEN EXHAUST VENTILATION

OVERHEAD EXHAUST HOOD, WALL MOUNTED, THREE SPEED FAN BUILT INTO HOOD WITH STANDARD 500CFM, VENTED TO OUTSIDE THROUGH ROOF OR WALL, FINISH STANDARD WHITE, BY GE, DACOR, BOSCH OR EQUAL, TO FIT EXISTING SPACE. GC TO PROVIDE UNIT DIMENSIONS AND VERIFY THAT FITS IN THE EXISTING SPACE. ANTI TIP DEVICE TO BE MANUFACTURER STANDARD. BAROMETRIC BACKDRAFT VENT DAMPER BY FAMCO OR FOLIAL DAMPER CONSTRUCTION: HIGH-TEMPERATURE-ENAMEL-PAINTED STEEL DAMPER AND HOUSING WITH GALVANIZED-STEEL BREECHING CONNECTION. ADJUSTABLE COUNTERWEIGHT WITH LOCK. INCLUDE KNIFE-EDGE BEARINGS THAT DO NOT REQUIRE LUBRICATION. VENT SIZE TO MATCH HOOD EXHAUST DIAMETER.

FREESTANDING TWO DOOR, SIDE BY SIDE REFRIGERATOR/FREEZER, WITH FREEZER ON TOP. 15.6 CU.FT. REFRIGERATOR STORAGE VOLUME AND 5.13 CU.FT. FREEZER STORAGE VOLUME, AUTOMATIC ICE MAKER AND STORAGE BIN, FRONT PANEL STANDARD WHITE BY GE DACOR BOSCH OR FOUAL TO FIT EXISTING SPACE. GC TO PROVIDE UNIT DIMENSIONS AND VERIFY THAT FITS IN THE EXISTING SPACE. ANTI TIP DEVICE TO BE MANUFACTURER STANDARD.

CLEANING APPLIANCES- BASIS OF DEISGN

FREESTANDING TOP LOADING UNIT, 3.2 CU. FT MAX. CPACITY, CENTER SPINDLE FINISH STANDARD WHITE, BY GE, MAYTAG, BOSCH OR EQUAL.TO FIT EXISTING SPACE. GC TO PROVIDE UNIT DIMENSIONS AND VERIFY THAT FITS IN THE EXISTING SPACE. ANTI TIP DEVICE TO BE MANUFACTURER STANDARD. CLOTHES DRYER

FREESTANDING FRONT LOADING UNIT 5.7 CU FT MAX CPACITY GAS FLECTRIC VENT KIT BY MANUFACTURER, FINISH STANDARD WHITE, BY GE, MAYTAG, BOSCH OR EQUAL.TO FIT EXISTING SPACE. GC TO PROVIDE UNIT DIMENSIONS AND VERIFY THAT FITS IN THE EXISTING SPACE. ANTI TIP DEVICE TO BE MANUFACTURER STANDARD.

ALL APPLIANCES TO QUALIFY FOR THE EPA/DOE ENERGY STAR PRODUCT

DIVISION 12 - FURNISHINGS

HORIZONTAL LOUVER BLINDS, POLYMER SLATS SUBJECT TO COMPLIANCE WITH REQUIREMENTS, AVAILABLE MANUFACTURERS OFFERING PRODUCTS THAT MAY BE INCORPORATED INTO THE WORK INCLUDE, BUT ARE NOT LIMITED TO. THE FOLLOWING • HUNTER DOUGLAS ARCHITECTURAL WINDOW COVERINGS.

 LEVOLOR CONTRACT. SPRINGS WINDOW FASHIONS: SWFCONTRACT.

MANUAL CORDED OPERATION WITH CHILD SAFETY CORDS.

DIVISION 22 – PLUMBING REQUIREMENTS

GENERAL CONDITIONS OF THE PLUMBING CONTRACT LUMBING CONTRACTOR TO FOLLOW HUD GENERAL CONDITIONS AS SPECIFIED EARLIER IN DIVISION 1.

ALL PLUMBING WORK TO COMPLY WITH LOCAL ALLEGHENY COUNTY HEALTH DEPARTMENT CODE AND REGULATIONS.

DIRECT-VENT, GAS-FIRED, STORAGE, DOMESTIC-WATER MANUFACTURER SUBJECT TO COMPLIANCE WITH REQUIREMENTS, AVAILABLE MANUFACTURERS OFFERING PRODUCTS THAT MAY BE INCORPORATED INTO THE WORK INCLUDE. BUT ARE NOT LIMITED TO. THE FOLLOWING: SMITH CORPORATION. BRADFORD WHITE CORPORATION.

LOCHINVAR, LLC. STANDARD: ANSI Z21.10.1/CSA 4.1. ENERGY STAR RATING MINIMUM: 0.86 UEF.

STORAGE-TANK CONSTRUCTION: STEEL TAPPINGS: ASME B1.20.1 PIPE THREAD

PRESSURE RATING: 150 PSIG INTERIOR FINISH: COMPLY WITH NSF 61 AND NSF 372 BARRIER MATERIALS FOR POTABLE-WATER TANK LININGS, INCLUDING EXTENDING LINING MATERIAL INTO

FACTORY-INSTALLED, STORAGE-TANK APPURTENANCES:

ANODE ROD: REPLACEABLE MAGNESIUM DIP TUBE: REQUIRED UNLESS COLD-WATER INLET IS NEAR BOTTOM OF TANK. DRAIN VALVE: CORROSION-RESISTANT METAL WITH HOSE-END CONNECTION. INSULATION: COMPLY WITH ASHRAE/IES 90.1 ASHRAE 90.2. JACKET: STEEL WITH ENAMELED FINISH.

HEAT-TRAP FITTINGS: INLET TYPE IN COLD-WATER INLET AND OUTLET TYPE IN HOT-WATER OUTLET. BURNER: FOR USE WITH DIRECT-VENT, GAS-FIRED, DOMESTIC-WATER HEATERS AND NATURAL-GAS FUEL IGNITION: STANDING PILOT OR ANSI Z21.20/CSA C22.2 NO. 60730-2-5, ELECTRIC, AUTOMATIC, GAS-IGNITION SYSTEM.

TEMPERATURE CONTROL: ADJUSTABLE THERMOSTAT TEMPERATURE-AND-PRESSURE RELIEF VALVE: COMBINATION ANSI Z21.22/CSA 4.4. INCLUDE RELIEVING CAPACITY AT LEAST AS GREAT AS HEAT INPUT AND INCLUDE PRESSURE SETTING LESS THAN WORKING-PRESSURE RATING OF DOMESTIC-WATER HEATER, SELECT RELIEF VALVE WITH SENSING ELEMENT THAT EXTENDS INTO STORAGE TANK.

DIRECT-VENT SYSTEM: THROUGH-WALL ROOF, COAXIAL- OR DOUBLE-CHANNEL VENT ASSEMBLY WITH DOMESTIC-WATER HEATER MANUFACTURERS OUTSIDE INTAKE/EXHAUST SCREEN.

PLUMBING FIXTURES (UNLESS NOTED ON DRAWINGS)

KOHLER.

SATHTUB FRP BATHTUB, MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, AVAILABLE MANUFACTURERS OFFERING PRODUCTS THAT MAY BE INCORPORATED INTO THE WORK INCLUDE, BUT ARE NOT LIMITED TO, THE AMERICAN STANDARD.

STERLING SLIP RESISTANCE, 60 BY 30 INCHES, WHITE FINISH, DRAIN NPS 1 1/2" CHROME PLATED BRASS, POP UP WASTE AND OVERFLOW. PLUMBING CONTTRACTOR SHALL VERIFY THE EXACT SIZE OF ALL REPLACEMENT TUBS AND SHOWERS TO MAKE CERTAIN THAT NEW TUB/SHOWERS FIT IN EXISTING FRAMING, PRIOR TO

BATHTUB / SHOWER FAUCET

PRESSURE BALANCED FAUCET, SINGLE HANDLE, MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, AVAILABLE MANUFACTURERS OFFERING PRODUCTS THAT MAY BE INCORPORATED INTO THE WORK INCLUDE. BUT ARE NOT LIMITED TO, THE FOLLOWING: AMERICAN STANDARD. MOEN INCORPORATED.

STERLING. FINISH POLISHED CHROME, 2.5 GMP FLOW RATE, CONCEALED MOUNTING SINGLE HANDLE, ANTISCALD DEVICE INTEGRATED WITHIN MIXING VALVE.

SHOWER HEAD, BALL JOINT WITH ARM AND FLANGE, CHROME PLATE FINISH

BATHTUB FILLER SPOUT FINISH CHROME PLATE FINISH.

VITREOUS-CHINA LAVATORIES. MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, AVAILABLE MANUFACTURERS OFFERING PRODUCTS THAT MAY BE INCORPORATED INTO THE WORK INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING

AMERICAN STANDARD. DURAVIT USA, INC.

KOHLER CO.

MOEN

TYPE FLAT RIM WITH LEDGE RECTANGULAR NOMINAL SIZE 19 BY 16 INCHES FAUCET-HOLE PUNCHING: THREE HOLES, 4-INCH CENTERS. COLOR: WHITE.

GENERAL DUTY, SOLID BRASS, MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, AVAILABLE MANUFACTURERS OFFERING PRODUCTS THAT MAY BE INCORPORATED INTO THE WORK INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING: AMERICAN STANDARD.

HANSGROHE USA POLISH CHROME PLATE FINISH, 2.2 GPM FLOW RATE, LEVER HANDLE, RIGID SPOUT, DRAIN POP UP.

<u>KITCHEN SINKS – WATER SENSE CERTIFIED</u> STAINLESS STEEL, COUNTER MOUNTED, MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, AVAILABLE MANUFACTURERS OFFERING PRODUCTS THAT MAY BE INCORPORATED INTO THE WORK INCLUDE, BUT ARE NOT LIMITED TO. THE FOLLOWING AMERICAN STANDARD ELKAY

AFFINITY SURFACES 0.038 INCH THICKNESS, 3 1/2" DRAIN GRID CENTERED IN BOWL

SINKS FAUCETS - WATER SENSE CERTIFIED
GENERAL DUTTY, SOLID BRASS, MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, AVAILABLE MANUFACTURERS OFFERING PRODUCTS THAT MAY BE INCORPORATED INTO THE WORK INCLUDE, BUT ARE NOT LIMITED TO: THE FOLLOWING: AMERICAN STANDARD.

ELKAY HANSGROHE POLISHED CHROME PLATE FINISH, SINGLE HANDLE ON KITCHEN TWO HANDLE ON UTILITY SINKS.

VATER CLOSET – WATER SENSE CERTIFIED FLOOR MOUNTED, FLOOR OUTLET, CLOSE COUPLED (GRAVITY TANK), VITREOUS CHINE 1.6 GAL/FLUSH MANUFACTURERS SUBJECT TO COMPLIANCE WITH REQUIREMENTS AVAILABLE MANUFACTURERS OFFERING PRODUCTS THAT MAY BE INCORPORATED INTO THE WORK INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:

KOHLER TOTO USA STANDARD HEIGHT, ELONGATED RIM, WATER SAVING, COLOR WHITE.

AMERICAN STANDARD

SELF SUSTAINING HINGE, COLOR WHITE, FRESTANDING UTILITY SINK, MANUFACTURERS: PROFLO OR EQUAL

STANDARD HEIGHT, COLOR WHITE. 20 INCH BY 20 INCH SIZE. FREEZELESS WALL FAUCET, WOODFORD OR EQUAL, MODEL 30,3/4 INCH

CONNECTION, BRASS FINISH, ASSE 1053 APPROVED, MAX PRESSURE 125 PSI.

TOILET SEAT PLASTIC FOR RESIDENTIAL USE, ELONGATED RIM, SEAT COVER,

SLEEVES SHALL BE INSTALLED WHEREVER PIPING PASSES THROUGH WALLS CEILINGS OR FLOORS SLEEVES SHALL BE CUT FROM SCHEDULE 40 BLACK IRON PIPE THE INTERNAL DIAMETER OF THE SLEEVE SHALL EXCEED THE EXTERNAL DIAMETER OF THE PIPE (INCLUDING INSULATION) BY NOT LESS THAN ONE INCH SLEEVES SHALL BE CUT FLUSH WITH WALLS AND UNDERSIDES OF FLOORS AND SHALL EXTEND ONE INCH ABOVE FLOORS ABOVE GRADE.

THROUGH THE ROOF SHALL BE INSTALLED THROUGH A PREFABRICATED PIPING PORTAL. PORTALS SHALL HAVE GALVANIZED STEEL INSULATED CURBS ABS PLASTIC CURB CAP, NEOPRENE RUBBER NIPPLES, AND STAINLESS-STEEL CLAMPS, CURB HEIGHT AS INDICATED ON DRAWINGS, PORTALS SHALL BE MODEL RC AND N28 AS MADE BY ROOF PRODUCTS AND SYSTEMS CORP PORTALS SHALL HAVE EXTRA HOLES FOR POWER AND CONTROL CONDUITS.

LL OPENINGS THROUGH FLOORS AND FIRE-RATED PARTITIONS SHALL BE SEALED. VOID SPACES AROUND DUCTS OR PIPES SHALL BE PACKED WITH A FIREPROOF CERAMIC FIBER AND SEALED WITH FIRE RETARDANT CAULKING. FIBER SHALL BE KAOWOOL BY BABCOCK AND WILCOX, FIBERFRAX BY CARBORUNDUM OR CERAFIBER BY MANVILLE CO. CAULKING SHALL BE SE/411 F BY UNISEAL, STANDARD DUXSEAL BY MANVILLE, OR MOLDABLE PUTTY BY 3M.

SCUTCHEONS SHALL BE INSTALLED WHEREVER PIPING PASSES THROUGH FLOORS, CEILINGS, OR WALLS OF FINISHED SPACES. ESCUTCHEONS SHALL BE CHROMIUM PLATED STEEL, SNAP ON TYPE WITH SPRING RETAINERS. ESCUTCHEONS SHALL BE THE NO. 40 MADE BY BEATON/CORBIN COMPANY OR APPROVED EQUAL. SIZED TO FIT PIPE PLUS INSULATION. WHERE RISER CLAMPS ARE IN FINISHED SPACES, PROVIDE HIGH-SKIRT ESCUTCHEONS TO COVER

UNIONS SHALL BE INSTALLED AT ALL POINTS INDICATED ON THE DRAWINGS AND AT ALL OTHER POINTS NECESSARY FOR THE INSTALLATION AND REMOVAL OF EQUIPMENT, CONTROL DEVICES, ETC. UNIONS IN GAS LINES WILL BE PERMITTED ONLY AT THE FINAL CONNECTIONS TO EQUIPMENT.

ALL HORIZONTAL PIPING SHALL BE SUPPORTED WITH PIPEHANGERS TO PREVENT SAGGING AND AVOID CONCENTRATION OF HANGING LOAD. HANGER SPACING SHALL NOT EXCEED 10 FT. FOR STEEL PIPE OR 8 FT. FOR COPPER TUBING. COPPER TUBING 1-1/4" AND SMALLER SHALL BE SUPPORTED AT NO GREATER THAN 6 FT. SPACING.

SOIL WASTE AND VENT PIPING
SOIL, WASTE AND VENT STACKS AND BRANCHES, AND ROOF CONDUCTORS SHALL BE ABS OR PVC PIPING AND FITTINGS SCHEDULE 40. WASTE LINES SHALL

REPAIR ALL FIREPROOFING WHICH IS DAMAGED BY HANGER INSTALLATION.

BE MINIMUM 2 INCH. HOT AND COLD-WATER PIPING
POTABLE-WATER PIPING AND COMPONENTS ARE TO COMPLY WITH NSF 14,

NSF 61, AND NSF 372. INCLUDE MARKING "NSF-PW" ON PIPING. HOT AND COLD WATER PIPING WITHIN THE BUILDING SHALL BE TYPE L, SEAMLESS, HARD TEMPER, COPPER TUBING WHICH CONFORMS TO ASTM SPECIFICATION B-88 WITH WROUGHT COPPER, SOLDER TYPE FITTINGS, OR PEX TUBING PLASTIC IN ACCORDANCE WITH ASTM F876 AND ASTM F877 WITH

FITTINGS ASTM F1807. METAL INSERT AND COPPER CRIMP RINGS ASTM F1960,

COLD EXPANSION FITTINGS AND REINFORCING RINGS.

REQUIRED BY LOCAL PLUMBING CODE.

OR NEIGHBORING STRUCTURES.

INSTALLATION OF PIPING
DRAINAGE PIPING SHALL BE INSTALLED TO ACCURATE LINE AND UNIFORM GRADE, AND AT THE ELEVATIONS INDICATED ON THE DRAWINGS. UNLESS OTHERWISE INDICATED, ALL DRAINAGE LINES SHALL SLOPE NOT LESS THAN 1/4 DRAINAGE LINES SHALL BE PROVIDED WITH SUFFICIENT CLEANOUTS TO MAKE ALL PARTS OF THE DRAINAGE SYSTEM ACCESSIBLE. CLEANOUTS SHALL BE PROVIDED ALONG INTERIOR HORIZONTAL RUNS AT NOT MORE THAN 50 FT. ON CENTER. CLEANOUTS SHALL BE PROVIDED AT THE BASE OF EACH ROOF CONDUCTOR AND AT ALL OTHER POINTS INDICATED ON THE DRAWING OR

ALL PIPES SHALL BE CUT WITH SQUARE ENDS AND SHALL BE PROPERLY REAMED THREADS SHALL BE CUT WITH CLEAN, SHARP DIES TO FULL DEPTH. ALL BURRS SHALL BE REMOVED FROM PIPE. JOINT COMPOUND SHALL BE APPLIED TO PIPE THREAD ONLY. USE OF EXCESSIVE JOINT COMPOUND IS

SOLDER. OTHER JOINTS MADE WITH EASYBRITE LEAD FREE SOLDER. WATER LINES WITHIN THE BUILDING SHALL BE INSTALLED WITH SUFFICIENT PITCH TO PROPERLY DRAIN LINES TO DRAIN VALVES. IN ADDITION TO DRAIN

VALVES INDICATED ON THE DRAWINGS, THE CONTRACTOR SHALL INSTALL ANY

SOLDER JOINTS IN ALL WATER LINES SHALL BE MADE WITH 95-5 TIN-ANTIMONY

GAS PIPING SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS AND NFPA-54. ALL GAS PIPING AND CONNECTIONS TO EQUIPMENT SHALL BE IN ACCORDANCE WITH AGA RECOMMENDATIONS AND ALL APPLICABLE LOCAL GAS COMPANY REGULATIONS.

CONTRACTOR SHALL VENTILATE THE WORK AREA TO PROVIDE A SAFE

ENVIRONMENT. VENTILATION SHALL NOT DIRECT FUMES TO ADJACENT SPACES

ADDITIONAL DRAIN VALVES NECESSARY TO PROPERLY DRAIN THE SYSTEM.

CONTRACTOR SHALL PROVIDE ADEQUATE FIRE PROTECTION DURING WELDING, CUTTING AND SOLDERING

REPAIR ALL FIRE PROOFING DAMAGED BY THE WORK UNDER THIS CONTRACT.

VALVES IN WATER LINES SHALL BE 125 PSI CLASS, BRONZE BODY, BALL VALVES WITH TEFLON SEATS AND PACKING. NIBCO 580 OR APOLLO.DRAIN VALVES SHALL BE BRONZE BODY SOLDERED ENDS. BALL VALVES WITH 3/4 INCH AMERICAN STANDARD HOSE THREAD OUTLET. NIBCO OR APOLLO.

WALL HYDRANT SHALL BE ALL BRASS, FULLY RECESSED, NON-FREEZE, KEY OPERATED. WITH ADJUSTABLE LOCKNUT. REMOVABLE NYLON SEAT. 3/4 INCH

HOSE CONNECTION. FURNISH WITH INTEGRAL VACUUM BREAKER. ZURN Z-1300

VALVES IN GAS LINES SHALL BE 125 PSI CLASS, THREADED END, IRON BODY, GAS COCKS WITH BRASS PLUG AND WASHER AND SQUARE HEAD. CRANE NO. 324.

ALL COLD AND HOT WATER PIPING. AND HORIZONTAL PORTIONS OF ROOF CONDUCTORS SHALL BE INSULATED WITH 1/2" THICK ARMAFLEX.

ALL PIPING SHALL BE LABELED WITH THE NAME OF THE FLUID IN THE PIPE AND WITH ARROWS INDICATING THE DIRECTION OF THE FLOW.

DRAINAGE SYSTEM - THE ENTIRE DRAINAGE SYSTEM SHALL BE TESTED HYDROSTATICALLY FOR LEAKS. THE ENTIRE SYSTEM SHALL BE FILLED TO THE TOP OF THE STACKS WITH WATER AND CHECKED FOR LEAKS.

WATER PIPING - ALL WATER PIPING SHALL BE THOROUGHLY FLUSHED TO REMOVE ALL FOREIGN MATERIAL. ALL TESTING SHALL BE COMPLETED BEFORE INSULATION IS APPLIED DURING THE TESTS ALL VALVES SHALL BE CAREFULLY CHECKED FOR LEAKAGE AROUND THE STEM.

WATER HEATERS - HEATERS SHALL BE TESTED AND CHECKED TO DETERMINE

THAT THEY OPERATE IN COMPLIANCE WITH THE SPECIFICATIONS. ALL

CONTROLS SHALL BE PROPERLY ADJUSTED. DISINFECTION OF POTABLE WATER SYSTEM - GENERAL: NEW OR REPAIRED POTABLE WATER SYSTEMS SHALL BE DISINFECTED PRIOR TO USE WHENEVER REQUIRED BY THE AUTHORITY HAVING JURISDICTION. THE METHOD TO BE

DIVISION 23 – MECHANICAL REQUIREMENTS

OR APPROVED EQUAL

PIPE IDENTIFICATION

<u>GENERAL CONDITIONS OF THE MECHANICAL CONTRACT</u>
PLUMBING CONTRACTO TO FOLLOW HUD GENERAL CONDITIONS AS SPECIFIED **FARLIER IN DIVISION 1**

ALL MECHANICAL WORK TO COMPLY WITH LOCAL CODE AND REGULATIONS.

FOLLOWED SHALL BE THAT PRESCRIBED BY THE HEALTH AUTHORITY

CUTTING AND PATCHING
ALL CHASES, RECESSES, HOLES, AND OPENINGS FOR EQUIPMENT AND DUCTWORK WILL BE PROVIDED BY THE GENERAL CONTRACTOR. SHOULD THE MECHANICAL CONTRACTOR FAIL TO SET SLEEVES OR LOCATE

OPENINGS BEFORE THE WORK OF THE GENERAL CONTRACTOR HAS BEEN

COMPLETED IN THAT PARTICULAR AREA. THE MECHANICAL CONTRACTOR SHALL

CUT WHATEVER HOLES ARE NECESSARY FOR THE INSTALLATION OF EQUIPMENT. ALL PATCHING NECESSITATED BY THE CUTTING OF SUCH HOLES SHALL BE DONE AT THE EXPENSE OF THE MECHANICAL CONTRACTOR. REPAIR ALL FIREPROOFING DAMAGED BY THE WORK UNDER THIS CONTRACT.

FANS SHALL VENT DIRECTLY TO THE EXTERIOR. EXHAST DUCTS MAY BE TIED TOGETHER OR TIED INTO AN EXISTING SYSTEM PROVIDED THAT BACK FLOW PREVENTORS ARE INSTALLED AT EACH FAN INCLUDING ALL FANS TIED INTO THE EXISTING SYSTEM

FURNISH NEMA I SURFACE MOUNTING STARTER WITH OVERLOAD AND UNDER VOLTAGE PROTECTION. FURNISH WITH BIRD SCREEN AND BACKDRAFT DAMPER.

INSULATED CURB.

FAN SHALL BE ACE MADE BY COOK, GREENHECK, OR APPROVED EQUAL, 100CFM CAPACITY, RECESSED MOUNTED, FINISH WHITE,

THE HEATING CONTRACTOR SHALL FURNISH THERMALLY AND ACOUSTICALLY

DUCT SIZES INDICATED ON THE DRAWINGS ARE THE CLEAR INSIDE DIMENSIONS.

ALL DUCTS SHALL BE COMPLETE WITH FOUR SIDES AND SHALL BE OF AIRTIGHT

CONSTRUCTION. ALL DUCTS. UNLESS OTHERWISE NOTED. SHALL F

CONSTRUCTED OF 24 GAGE GALVANIZED SHEET STEEL AT 2" PRESSURE CLASS. JOINTS, SEAMS AND DUCT WALL PENETRATIONS SHALL BE SEALED IN ACCORDANCE WITH SMACNA DUCT CONSTRUCTION STANDARDS. SEALANT MATERIAL SHALL BE CAULKING COMPOUND SPECIFICALLY MANUFACTURED FOR

DUCT APPLICATION FOR INDOOR USE. JOINTS BETWEEN SHEET METAL SECTIONS MAY BE MADE WITH PREFABRICATED JOINING SYSTEM SUCH AS THE DUCTMATE INDUSTRIES SYSTEM. STIFFENERS SHALL BE PLACED AT NOT MORE THAN 8-FOOT INTERVALS.

BY MEANS OF GALVANIZED STEEL STRAP HANGERS SPACED AT NOT MORE THAN 8-FOOT INTERVALS. DUCTS SHALL BE SUPPORTED IN ACCORDANCE WITH DUCTWORK CONNECTIONS TO AIR HANDLING AND AIR CONDITIONING UNITS

SHALL HAVE FLEXIBLE CONNECTIONS. WHEN CONNECTION IS OUTDOORS,

CONNECTION LENGTH SHALL BE INSULATED AND WEATHERPROOFED

ALL DUCTS SHALL BE ADEQUATELY SUPPORTED FROM CONSTRUCTION ABOVE

TUNING VANES SHALL BE INSTALLED IN ALL ELBOWS HAVING SQUARE THROATS OR A THROAT RADIUS LESS THAN HALF THE DUCT WIDTH. TURNING VANES MAY BE PREFABRICATED. IF JOB FABRICATED DESIGN AND CONSTRUCTION SHALL BE SUBJECT TO THE APPROVAL OF THE ARCHITECT. VANES SHALL BE AIRFOIL

NOT LIGHTER THAN US GAGE NO. 16 GALVANIZED SHEET STEEL. DAMPER BLADES SHALL BE SUPPORTED ON AN END BEARING ON ONE SIDE AND A COMBINATION BEARING AND DAMPER REGULATOR ON THE OTHER SIDE. REGULATOR SHALL BE EQUIPPED WITH A LOCKING DEVICE. MANUAL DAMPERS SHALL BE OPPOSED BLADE TYPE. FURNISH AND INSTALL FIRE DAMPERS WHERE INDICATED OR WHERE REQUIRED.

DAMPERS SHALL COMPLY WITH LATEST EDITION OF NFPA 90A, AND SHALL BE UL

SHALL HAVE A MELTING POINT OF 165F. DAMPERS SHALL BE MODEL IBD AS

LABELED BLADE STACK SHALL BE OUT OF AIRSTREAM FUSIBLE FIRE LINKS

MANUAL VOLUME CONTROL DAMPERS IN DUCTS SHALL BE CONSTRUCTED OF

MADE BY RUSKIN, OR APPROVED EQUAL BY SAFE-AIR. FURNISH ACCESS DOORS TO ALL DAMPERS. ACCESS DOORS IN DUCTS SHALL BE RIGIDLY CONSTRUCTED AND TIGHTLY FITTED. DOORS SHALL BE SUPPORTED ON TWO STEEL BUTT HINGES AND SHALL BE SECURED WITH A SASH LOCK. DOORS SHALL BE GASKETED AND INSULATED.

REPAIR ALL FIRE PROOFING DAMAGED BY THE WORK UNDER THIS CONTRACT.

FLEXIBLE DUCTS SHALL BE SOUND ATTENUATING, THERMAL INSULATED, WIRE WOUND, REINFORCED TYPE WITH A MOISTURE TIGHT FLAME PROOF VINYL BARRIER. FLEXIBLE DUCTS TO BE USED ONLY TO CONNECT INDIVIDUAL DIFFUSERS WITH MAIN OR BRANCH DUCTS AVAC CONTRACTOR I RESPONSIBLE FOR REPLACING ANY PORTION OF THE EXISTING SYSTEM WHICH DOES NOT MEET THESE REQUIREMENTS WITH PROPERLY SIZED AND INSULATED SHEET METAL DUCTS. THIS WORK TO BE INCLUDED IN BASE BID.

DIFFUSERS SHALL BE SQUARE OR RECTANGULAR FACED, RECESSED TYPE, WITH REMOVABLE CORES. DIFFUSER CAPACITIES, SIZES AND DIRECTIONAL BLOWS ARE INDICATED ON THE DRAWINGS. FURNISH EACH DIFFUSER WITH DEFLECTING VANES AND KEY OPERATED, OPPOSED BLADE, VOLUME DAMPERS. DIFFUSERS SHALL BE FURNISHED WITH BAKED, WHITE FINISH. SUPPLY REGISTERS

SUPPLY REGISTERS SHALL HAVE INDIVIDUALLY ADJUSTABLE FINS WITH

VERTICAL FRONT BARS AND HORIZONTAL REAR BARS. FINS SHALL BE

GRILLES AND REGISTERS FOR HVAC TO MATCH EXISTING. GRILLES AND

REGISTERS SHALL BE OUT OF STEEL, WITH DAMPER, PRIMED PAINTED WHITE.

SIZE OF GRILLE TO MATCH EXISTING OPENING ON TOE KICK, WALL OR CEILING.

STREAMLINED AND OF STURDY CONSTRUCTION. FLANGES SHALL BE 5/8 INCH CHANNEL BORDER FURNISH RUBBER GASKET AROUND PERIMETER OF FLANGE AND KEY OPERATED. OPPOSED BLADE VOLUME CONTROL DAMPERS. RUBBER GASKET SHALL BE NON-CHLORINATED RUBBER AND NON-POROUS. FURNISH WITH PRIME COAT OF PAINT.

FREEZE PROTECTION THERMOSTAT - FREEZE PROTECTION THERMOSTAT SHALL BE MERCURY TUBE. MANUAL RESET TYPE SET AT 45F. INSTALL AN ADJUSTABLE TIME DELAY RELAY TO PERMIT AIR TO ESTABLISH SATISFACTORY TEMPERATURE TO AVOID FALSE TRIPS.

SMOKE ALARMS

BASIS OF DESIGN, KIDDE OR EQUAL, MODEL 20SAR, PHOTOELECTRIC, HARDWIRE 120 V AC WITH 2 AA BATTERY BACKUP, FINISH WHITE.

COMBO SMOKE + CO ALARMS BASIS OF DESIGN, KIDDE OR EQUAL, MODEL 30CUDR, PHOTOELECTRIC, HARDWIRE 120 V AC WITH 2 AA BATTERY BACKUP, FINISH WHITE.

SMOKE DETECTOR'S LOCATIONS: 1 COMBO SMOKE + CO ALARM PER FLOOR, NOT TO BE PLACED IN MECHANICAL

ROOM OR KITCHEN. 1 SMOKE DETECTOR INSIDE EACH SLEEPING ROOM. INTERCONNECT SMOKE DETECTORS INSIDE THE UNIT.

ALL SUPPLY AIR DUCTS SHALL BE INSULATED WITH 2" THICK, 1.00 DENSITY, OWENS-CORNING OR APPROVED EQUAL FLEXIBLE DUCT INSULATION WITH FLAME RETARDANT REINFORCED FRK 25 FOIL COVERING. SEAL ALL JOINTS, BOLTS AND ALL EXPOSED EDGES WITH 4" WIDE STRIPS OF SEALING TAPE USING A SUITABLE ADHESIVE. INSULATION SHALL HAVE A 2" FLAP AT ALL JOINTS AND SEAMS WHICH SHALL BE STAPLED AND SECURED WITH ADHESIVE. APPLY

DUCTOWRK EXPOSED WITHIN THE SPACE MAY BE LEFT UN-INSULATED.

OPERATING INSTRUCTIONS THE CONTRACTOR SHALL FURNISH THREE PHYSICAL OR DIGITAL COMPLETE SETS OF OPERATING AND MAINTENANCE INSTRUCTIONS. THIS SHALL INCLUDE FINAL CONTROL DIAGRAMS, CATALOG DATA INCLUDING CONSTRUCTION AND MAINTENANCE INFORMATION ON ALL EQUIPMENT, AND MAINTENANCE INFORMATION ON THE COMPLETE SYSTEM.

ONE COMPLETE CONTROL DIAGRAM SHALL BE INCLUDED IN EACH O&M MANUAL.

ADHESIVE TO DUCTS IN SIX-INCH-WIDE STRIPS AT ONE FOOT INTERVALS.

THE CONTRACTOR SHALL FORMALLY INSTRUCT THE HACP'S STAFF ON THE OPERATION OF THE SYSTEM. THE INSTRUCTION SHALL CONSIST OF NOT LESS THAN 2 PERIODS, EACH PERIOD OF 4 HOURS DURATION. THE CONTRACTOR SHALL ARRANGE FOR THIS INSTRUCTION WITH THE HACP.

FUNCTIONS AND ALL ACTUATORS OPERATE IN ACCORDANCE WITH THE SPECIFICATIONS. TESTS AND INSPECTION

THE FOLLOWING OPERATIONS SHALL BE PERFORMED IN PREPARATION FOR

FINAL INSPECTION BY THE ARCHITECT. THE MECHANICAL CONTRACTOR SHALL

DEMONSTRATE TO THE ARCHITECT THAT THE SYSTEM IS OPERATING IN

COMPLIANCE WITH THE DRAWINGS AND SPECIFICATIONS. ALL TESTS AND INSPECTIONS SHALL BE COMPLETED BEFORE FINAL PAYMENT IS MADE TO THE HEATING (MECHANICAL) CONTRACTOR. CONTROLS - ALL CONTROLS SHALL BE TESTED AND ADJUSTED TO ACHIEVE THE INTENT OF THESE SPECIFICATIONS. CONTROLS SHALL BE ADJUSTED WHILE THE SYSTEM IS OPERATING UNDER FULL-LOAD CONDITIONS, BOTH HEATING AND

COOLING. CONTROL SUB-CONTRACTOR SHALL SUBMIT WRITTEN CERTIFICATION THAT ALL ON/OFF AND ALARM. AIR DISTRIBUTION SYSTEM - AIR BALANCING SHALL BE PERFORMED BY AN INDEPENDENT AIR BALANCE SUBCONTRACTOR THE COST OF THE SUB-CONTRACTOR SHALL BE INCLUDED IN THE CONTRACTOR'S BID PRICE. THE INDEPENDENT AIR BALANCER SHALL NOT BE AN EMPLOYEE NOR A SUBSIDIARY

OF THE CONTRACTOR. THE MECHANICAL CONTRACTOR SHALL GUARANTEE FOR A PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE OF THE JOB THAT ALL EQUIPMENT, MATERIAL AND LABOR FURNISHED BY HIM ARE FREE FROM DEFECTS. ANY DEFECTS IN MATERIAL AND WORKMANSHIP SHALL BE CORRECTED BY THE CONTRACTOR WITHOUT FURTHER EXPENSE TO THE HACP. ALL ITEMS SPECIFIED TO HAVE A LONGER WARRANTEE SHALL BE GUARANTEED FOR THAT LONGER PERIOD. CONTROLS SHALL HAVE A 2-YEAR GUARANTEE ON PARTS AND

THERMOSTAT: WALL-MOUNTED, PROGRAMMABLE,

MINIMUM OF FOUR TEMPERATURE PRESETS PER DAY, VACATION MODE, AND BATTERY BACKUP PROTECTION AGAINST POWER FAILURE FOR PROGRAM

ELECTRICAL SYSTEM WITH THE HACP.

SHALL BE ACCEPTED AS FINAL.

AUTHORITY TO VIOLATE APPLICABLE CODES.

CONTROLS

SOLID-STATE

DIVISION 26 - ELECTRICAL WORK NOTE: ELECTRICAL WORK ON THIS PROJECT IS TO BE DESIGN BUILD. THE E.C. IS RESPONSIBLE FOR VERIFYING LOCATIONS AND REQUIREMENTS FOR THE

MICROPROCESSOR-BASED UNIT WITH MANUAL SWITCHING FROM HEATING TO

COOLING. PREFERENTIAL RATE CONTROL. SEVEN-DAY PROGRAMMABILITY WITH

SPECIFICATIONS. THE SPECIFIC BUILDING HACP REQUIREMENTS. THE LATEST RULES OF THE NATIONAL ELECTRICAL CODE AND WITH LOCAL ORDINANCES HAVING JURISDICTION.

CONFORM TO THE REQUIREMENTS OF THE CONTRACT DRAWINGS AND

DO NOT INTERPRET ANYTHING IN THE DRAWINGS OR SPECIFICATIONS AS

PREPARE ANY ADDITIONAL CLARIFYING DETAILS REQUIRED BY THE LOCAL

INSPECTION AUTHORITIES AND SECURE APPROVAL OF SAME. PAY ANY

THE DRAWINGS AND FIELD CONDITIONS, OR BETWEEN THE DRAWINGS AND THE

BE RESPONSIBLE FOR EXAMINING DRAWINGS AND SPECIFICATIONS FOR COMPLIANCE WITH APPLICABLE CODES. RESOLVE ALL CONFLICTS BEFORE INSTALLATION AT NO EXTRA COST.

CHARGES, OBSERVE ALL UNIFORM CONSTRUCTION CODE REQUIREMENTS. OBSERVE ALL APPLICABLE SAFETY REGULATIONS REQUIRED BY HACP AND/OR BY OSHA.

BRING ANY DISCREPANCIES BETWEEN DIFFERENT DRAWINGS, BETWEEN

SPECIFICATIONS, OR ANY APPARENT OMISSIONS, TO THE ARCHITECT'S ATTENTION BEFORE SUBMITTING THE BID. AFTER AWARD OF CONTRACT. THE INTERPRETATION OF ANY CONFLICT WILL BE MADE BY THE ARCHITECT AND

IF MENTION HAS BEEN OMITTED PERTAINING TO DETAILS, ITEMS OR RELATED ACCESSORIES REQUIRED FOR THE COMPLETION OF ANY ELECTRICAL SYSTEM. INCLUDE SUCH ITEMS AND ACCESSORIES IN THE ELECTRICAL CONTRACT WITHOUT ADDITIONAL CHARGES. AFTER THE JOB IS AWARDED, CLAIMS BASED ON INSUFFICIENT DATA OR

INCORRECTLY ASSUMED CONDITIONS. OR CLAIMS BASED ON

CONDITIONS UNDER WHICH IT MUST BE PERFORMED WILL NOT BE RECOGNIZED. OBTAIN AND PAY FOR ALL PERMITS AND LICENSES REQUIRED FOR THE EXECUTION OF THE WORK IN ADVANCE OF CONSTRUCTION.

MISUNDERSTANDING THE NATURE OR CHARACTER OF THE WORK OR THE

ARRANGE FOR ALL TESTS AND INSPECTIONS OF THE WORK REQUIRED BY THE AUTHORITIES HAVING JURISDICTION AND PAY ALL COSTS. OBTAIN ALL CERTIFICATES OF INSPECTIONS AND APPROVAL FROM ALL AUTHORITIES HAVING JURISDICTION AND DELIVER THEM TO THE HACP AS A PREREQUISITE FOR ACCEPTANCE OF THE WORK, DELIVER COPIES TO THE

DO NOT INSTALL WORK FOR WHICH AN EXTRA CHARGE IS TO BE MADE WITHOUT WRITTEN APPROVAL. STATE IN A WRITTEN REQUEST FOR EXTRA WORK THE NATURE OF THE WORK, BY WHOM REQUESTED. THE PRICE TO BE CHARGED AND AN ITEMIZED TIME AND MATERIAL BREAKDOWN FOR EACH ITEM. THE E.C. SHALL BE RESPONSIBLE FOR CALCULATION AND BALANCING OF THE

ELECTRICAL LOADS, CIRCUITING AND CONFIRMING THE ADEQUACY OF EXISTING

SERVICE WITH HACP. SEE GENERAL SPECIFICATIONS

BASIC ELECTRICAL REQUIREMENTS

THE HACP'S GENERAL CONDITIONS AND SPECIAL CONDITIONS ARE HEREBY MADE A PART OF EACH SECTION IN DIVISION 26 AND SHALL APPLY TO ALL THE FOLLOWING WORK ELECTRICAL WORK WILL BE LET BY THE HACP, SUBJECT TO THE INSTRUCTIONS TO BIDDERS AND TO ALL ADDENDA AND BULLETINS HEREAFTER MADE PART OF THESE SPECIFICATIONS. REFER THERETO FOR INSTRUCTIONS REGARDING SPECIFIC JOB CONDITIONS. OBSERVE ALL SPECIAL INSTRUCTIONS IN REGARD TO WORKING CONDITIONS

B. SCOPE OF WORK FURNISH ALL LABOR, MATERIALS, EQUIPMENT, TRANSPORTATION, TOOLS, SUPERVISION AND SERVICES NECESSARY FOR THE INSTALLATION AND PROPER COMPLETION OF ALL ELECTRICAL WORK AS HEREIN SPECIFIED AND/OR AS SHOWN ON THE DRAWINGS.

AND MISCELLANEOUS ITEMS AS DIRECTED BY THE ENGINEER AND HACP.

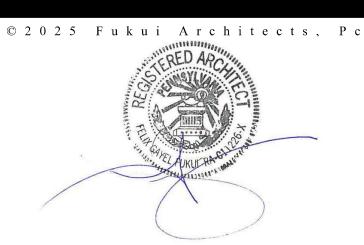
INSTALL ALL SYSTEMS COMPLETE, UNLESS OTHERWISE NOTED, AND LEAVE IN FIRST CLASS OPERATING CONDITION, SATISFACTORY TO THE ENGINEER AND ELECTRICAL WORK SHALL INCLUDE BUT IS NOT NECESSARILY LIMITED TO THE FOLLOWING: 1.ALL ELECTRICAL DEMOLITION, AS REQUIRED. 2 PROVISION OF TEMPORARY LIGHT AND POWER AS SPECIFIED HEREINAFTER.

4. FURNISH AND INSTALL ALL LIGHTING FIXTURES AND LAMPS. 5. ALL POWER WIRING, 120 VOLTS OR HIGHER, FOR ANY NEW HVAC OR PLUMBING EQUIPMENT. 6. PROVISION AND INSTALLATION OF LIGHTING SWITCHES AND DEVICES, AS 7, NEW PANELBOARDS, SUBFEEDERS, BRANCH CIRCUIT WIRING, AS SHOWN. 8. PROVISION AND INSTALLATION OF NEW CANOPY GOOSENECK LIGHTS. 9. PROVISION AND INSTALLATION OF ALL MISCELLANEOUS ITEMS, AS SHOWN ON

THE DRAWINGS OR SPECIFIED HEREINAFTER

Fukui Architects Pc

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ISSUED FOR BID & CONSTRUCTION

general notes

Any conflicts in the drawings or between new and existing construction shall be referred to the Architect. 2. Contractor shall verify all dimensions and existing conditions in the field and shall advise Fukui Architects,

Pc of any discrepancies between, additions to, deletions

from, or alterations to any and all conditions prior to proceeding with any phase of work. Do not scale **3.** All work shall be installed in accordance with applicable

4. Contractor shall be responsible for the patching, repairing, and preparations of all existing floor, wall, and ceiling surfaces as required to receive scheduled finishes.

codes and regulations.

5. All items shown on drawings are finished construction assemblies. Contractor shall provide and install all material required for finished assemblies. **6.** All reports, plans, specifications, computer files, field data, notices, and other documents and instruments prepared by the Architect as instruments of service shall

remain the property of the Architect. The Architect shall

retain all common law statutory, and other reserved

rights, including the copyright thereto.

SUBMIT FOR PERMIT 6.19.2024

SUBMIT FOR BID AND IFC 9.18.2024

RE-SUBMIT FOR BID AND IFC 6.19.2025

PLI REVISIONS 7.31.2024 PLI REVISIONS 8.22.2024

revisions

project title

Owner:

412 Boulevard of the Allies

Pittsburgh,PA,15219

HACP

Client: HACP 412 Boulevard of the Allies

Pittsburgh, PA 15219

Project Location:

728 Montooth St. Pittsburgh, PA 15210 drawing title

Outline Specifications Montooth

728 Montooth St. Rehabilitation

As Noted

Sheet No.

05/24/2024

06.12.24

JOINT SEALERS

SEE THE ARCHITECTURAL DIVISION FOR INSTRUCTIONS AND PRECAUTIONS REGARDING EXISTING ASBESTOS/LEAD PAINT IN THE

C. SPECIFICATIONS

THESE SPECIFICATIONS COMPLEMENT THE ELECTRICAL DRAWINGS. EXECUTE ANY ITEM DRAWN AND NOT SPECIFIED OR SPECIFIED AND NOT DRAWN AS FULLY AS IF BOTH DRAWN AND SPECIFIED IN ORDER TO INSURE A COMPLETE INSTALLATION. IN THE EVENT OF A CONFLICT BETWEEN THE DRAWINGS AND THE SPECIFICATIONS THE MORE STRINGENT REQUIREMENT WILL BE APPLICABLE. INSTALL ANY ITEM SPECIFIED AND NOT DRAWN, OR VICE VERSA, AS COMPLETELY AS IF BOTH SHOWN AND SPECIFIED.

DUE TO THE SCALE OF THE DRAWINGS, IT IS NOT POSSIBLE TO INDICATE ALL CONDUITS, CONDUCTORS, CONNECTORS, FITTINGS, BOXES, SWITCHES AND OTHER MISCELLANEOUS PARTS WHICH MAY BE REQUIRED. INVESTIGATE THE STRUCTURAL AND FINISH CONDITIONS AFFECTING THE WORK AND ARRANGE THE NEW WORK ACCORDINGLY. FURNISHING SUCH PARTS AND EQUIPMENT AS MAY BE NECESSARY FOR THIS INSTALLATION.

THE ELECTRICAL DRAWINGS INDICATE THE REQUIRED CONDUIT SIZES AND POINTS OF TERMINATION AND THE NUMBER AND SIZE OF THE WIRES THEREIN BUT DO NOT SUGGEST THE PROPER ROUTING OF THESE RACEWAYS. THE PREPARATION OF FIELD DRAWINGS, IF REQUIRED, IS THE CONTRACTOR'S RESPONSIBILITY

E. <u>PERMITS, LICENSES AND INSPECTIONS</u>
OBTAIN AND PAY FOR ALL PERMITS AND LICENSES REQUIRED FOR THE EXECUTION OF THE WORK IN ADVANCE OF CONSTRUCTION. ARRANGE FOR ALL TESTS AND INSPECTIONS OF THE WORK REQUIRED BY THE AUTHORITIES HAVING JURISDICTION AND PAY ALL COSTS. OBTAIN ALL CERTIFICATES OF INSPECTIONS AND APPROVAL FROM ALL AUTHORITIES HAVING JURISDICTION AND DELIVER THEM TO THE HACP AS A PREREQUISITE FOR ACCEPTANCE OF THE WORK.

F. REGULATIONS AND CODES CONFORM TO THE REQUIREMENTS OF THE CONTRACT DRAWINGS AND SPECIFICATIONS, THE LATEST RULES OF THE NATIONAL ELECTRICAL CODE AND WITH LOCAL ORDINANCES HAVING JURISDICTION. DO NOT INTERPRET ANYTHING IN THE DRAWINGS OR SPECIFICATIONS AS AUTHORITY TO VIOLATE APPLICABLE CODES. BE RESPONSIBLE FOR EXAMINING DRAWINGS AND SPECIFICATIONS FOR

COMPLIANCE WITH APPLICABLE CODES. RESOLVE ALL CONFLICTS BEFORE INSTALLATION AT NO EXTRA COST. PREPARE ANY ADDITIONAL CLARIFYING DETAILS REQUIRED BY THE LOCAL INSPECTION AUTHORITIES AND SECURE APPROVAL OF SAME. PAY ANY OBSERVE ALL REQUIREMENTS OF NEC-2008 EDITION.

OBSERVE ALL INTERNATIONAL BUILDING CODE REQUIREMENTS. OBSERVE ALL APPLICABLE SAFETY REGULATIONS REQUIRED BY HACP AND/OR

G. <u>Interpretations and conflicts</u>
Bring any discrepancies between different drawings, between the DRAWINGS AND FIELD CONDITIONS. OR BETWEEN THE DRAWINGS AND THE SPECIFICATIONS OR ANY APPARENT OMISSIONS TO THE ENGINEER'S ATTENTION BEFORE SUBMITTING THE BID. AFTER AWARD OF CONTRACT, THE INTERPRETATION OF ANY CONFLICT WILL BE MADE BY THE ENGINEER AND SHALL BE ACCEPTED AS FINAL. IF MENTION HAS BEEN OMITTED PERTAINING TO DETAILS. ITEMS OR RELATED ACCESSORIES REQUIRED FOR THE COMPLETION OF ANY ELECTRICAL SYSTEM, INCLUDE SUCH ITEMS AND ACCESSORIES IN THE ELECTRICAL CONTRACT WITHOUT ADDITIONAL CHARGES.

AFTER THE JOB IS AWARDED, CLAIMS BASED ON INSUFFICIENT DATA OR INCORRECTLY ASSUMED CONDITIONS, OR CLAIMS BASED ON MISUNDERSTANDING THE NATURE OR CHARACTER OF THE WORK OR THE CONDITIONS UNDER WHICH IT MUST BE PERFORMED, WILL NOT BE

H. WORK SCHEDULE
SCHEDULE ALL ELECTRICAL WORK TO CONFORM TO THE HACP'S WORK SCHEDULE. INCLUDE ANY APPLICABLE PREMIUM TIME. AS DIRECTED.

NOT INSTALL WORK FOR WHICH AN EXTRA CHARGE IS TO BE MADE WITHOUT STATE IN A WRITTEN REQUEST FOR EXTRA WORK THE NATURE OF THE WORK, BY WHOM REQUESTED, THE PRICE TO BE CHARGED AND AN ITEMIZED BREAKDOWN FOR EACH ITEM.

J. STANDARDS OF WORKMANSHIP

ALL ELECTRICAL WORK SHALL MEET OR EXCEED THE STANDARDS OF INSTALLATION AND GOOD WORKMANSHIP AS SET FORTH IN THE LATEST COPY OF THE NATIONAL ELECTRICAL CONTRACTORS ASSOCIATION PUBLICATION ENTITLED "NECA STANDARDS OF INSTALLATION" EXCEPT AS OTHERWISE MODIFIED IN THESE SPECIFICATIONS OR SHOWN ON THE CONTRACT DRAWINGS THE ENGINEER/HACP RESERVES THE RIGHT TO DIRECT THE REMOVAL OF ANY ITEM WHICH DOES NOT COMPLY WITH THE CONTRACT DRAWINGS OR THESE SPECIFICATIONS, OR DOES NOT PRESENT A NEAT, ORDERLY AND WORKMANLIKE

K. JOB RESPONSIBILITY PROVIDE ADEQUATE STORAGE FACILITIES FOR MATERIALS AND EQUIPMENT DURING THE PROGRESS OF THE WORK. BE RESPONSIBLE FOR THE CONDITION OF ALL MATERIALS AND EQUIPMENT EMPLOYED IN THE ELECTRICAL INSTALLATION UNTIL FINAL ACCEPTANCE BY THE ENGINEER AND HACP. MAKE GOOD ANY DAMAGE TO THE WORK CAUSED BY FLOODS, STORMS, ACCIDENTS, ACTS OF VIOLENCE AND THEFT, UP TO THE TIME OF FINAL ACCEPTANCE BY THE ENGINEER AND HACP BE RESPONSIBLE FOR THE REPLACEMENT OF ALL DAMAGED OR DEFECTIVE

WORK, MATERIALS OR EQUIPMENT. DO NOT LEAVE ANY ELECTRICAL WORK IN A HAZARDOUS CONDITION, EVEN ERECT, MAINTAIN AND FINALLY REMOVE ALL SCAFFOLDS, STAGING, FORMS, PLATFORMS AND LADDERS REQUIRED FOR THE ELECTRICAL INSTALLATION.

L. <u>GUARANTEE</u>
FULLY GUARANTEE IN WRITING ALL MATERIALS AND WORKMANSHIP INSTALLED UNDER THIS CONTRACT AGAINST DEFECTS FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE OF THE WORK BY THE HACP.

BASIC ELECTRICAL METHODS AND PROCEDURES

PROVIDE A TEMPORARY SERVICE FOR CONSTRUCTION USING THE EXISTING SERVICE AND PANELS. THE HACP WILL PAY ALL UTILITY CHARGES FOR MONTHLY ENERGY BILLS. PROVIDE ALL NECESSARY EQUIPMENT PER N.E.C. AND O.S.H.A. REQUIREMENTS. EXTEND WIRING FOR LIGHTING, AS REQUIRED FOR THE NEW WORK. LIGHTING INSTALLATION SHALL MEET O.S.H.A. REGULATIONS FOR INTENSITY OF ILLUMINATION, SPACING OF LUMINAIRES AND SAFETY. INSTALL 120 VOLT CORD SETS WITH GROUND FAULT PROTECTION AS PER THE N.E.C. LATEST REQUIREMENTS. MAINTAIN THE ELECTRICAL EQUIPMENT AND LAMPS FOR THE TEMPORARY REPAIR OR REPLACE ANY DAMAGE TO THE BUILDING RESULTING FROM THE TEMPORARY INSTALLATION. REPAIRS SHALL BE SATISFACTORY TO THE HACP. THE PRESENT SYSTEM MAY BE USED AS THE SOURCE FOR THE TEMPORARY SERVICE, PROVIDED A SATISFACTORY ARRANGEMENT FOR THIS USE IS MADE WITH THE HACP.

BE RESPONSIBLE FOR THE REMOVAL OF EXISTING ELECTRICAL EQUIPMENT NO LONGER REQUIRED, SUCH AS WIRE, OUTLETS, PANELS, TRANSFORMERS, BOXES, ETC. SHOULD AN INTERRUPTION OR SHUTDOWN BE REQUIRED, NOTIFY THE HACP SUFFICIENTLY IN ADVANCE OF THE REQUIRED SHUTDOWN SO THAT PROPER ARRANGEMENTS CAN BE MADE. REWIRE AND RECONNECT ALL EXISTING ELECTRICAL ITEMS WHICH REMAIN IN USE IF THE WIRING TO SAME IS DISCONNECTED, DISTURBED OR REMOVED BY

THIS RENOVATION. LEAVE ALL EXISTING EQUIPMENT IN OPERATION AT THE JOB'S CONCLUSION. REMOVE, CLEAN, AND STORE ANY EXISTING ITEMS INDICATED AS BEING REUSED OR RELOCATED UNTIL THE PROPER TIME TO REINSTALL THE SAME. PROPERLY PROTECT ALL EXISTING FLECTRICAL ITEMS WHICH REMAIN IN PLACE ANY ELECTRICAL REPLACEMENT NECESSARY SHALL BE DONE AT THIS ELECTRICAL CONTRACTOR'S DIRECT EXPENSE NOTE THAT THE REQUIRED ELECTRICAL DEMOLITION IS NOT SHOWN ON THE

VISIT THE SITE PRIOR TO BID TO VERIFY ALL REQUIREMENTS FOR THIS DIVISION.

PAINTING IS INCLUDED IN THE ELECTRICAL DIVISION AS PER THE FOLLOWING TOUCH UP ANY PANELS, SWITCH BOXES OR APPARATUS SCRATCHED, DAMAGED OR RUSTED DURING CONSTRUCTION. PAINT ANY BRACKETS OR EQUIPMENT WHICH ARE NOT FACTORY PAINTED OR CONSTRUCTED OF A MATERIAL WHICH REQUIRES PROTECTION. PAINT ALL PLYWOOD BACK BOARDS.

D. <u>DETERMINATION OF LOCATIONS</u> DRAWINGS INDICATE THE APPROXIMATE LOCATIONS OF OUTLETS, APPARATUS.

AND EQUIPMENT. THE RUNS OF FEEDERS AND BRANCHES AS SHOWN ARE SCHEMATIC. FINAL ROUTING SHALL BE GOVERNED BY STRUCTURAL CONDITIONS AND OTHER OBSTRUCTIONS. THIS SHALL NOT MEAN THAT THE DESIGN OF A SYSTEM MAY BE CHANGED; IT MERELY REFERS TO THE EXACT ROUTING OF A RACEWAY BETWEEN GIVEN POINTS. INSTALL RACEWAYS WITH ALL NECESSARY OFFSETS, JUNCTION AND PULL BOXES, IN SUCH A MANNER AS TO CONFORM TO THE STRUCTURE, PRESERVE HEADROOM AND SATISFYING THE REQUIREMENTS OF THE GOVERNING CODES AND THE STANDARDS OF GOOD PRACTICE. ALL SURFACE CONDUIT ROUTINGS SHALL BE REVIEWED AND APPROVED BY THE ARCHITECT, PRIOR TO ROUGH-IN OF SAME.

E. GROUNDING AND BONDING

PROVIDE ALL ELECTRICAL SYSTEM GROUNDING AND BONDING AS REQUIRED BY MAKE GOOD CONTACT AT ALL PANELS, BOXES AND WHEREVER A CONDUIT RUN IS BROKEN. GROUND AND BOND ALL CONDUIT, FIXTURES AND OTHER APPARATUS IN A PERMANENT MANNER. GROUND ALL LIGHTING FIXTURES AND CONVENIENCE OUTLETS AS REQUIRED BY THE NATIONAL ELECTRICAL CODE

SUBMIT TO THE HACP FOR PRELIMINARY APPROVAL. SIX (6) COPIES OF A COMPLETE LIST OF ALL MATERIALS PROPOSED FOR USE IN THE ELECTRICAL SYSTEMS COVERED BY THESE SPECIFICATIONS WITHIN 15 DAYS AFTER THE AWARD OF CONTRACT.

G. SUBMITTAL OF SHOP DRAWINGS AND BROCHURES
IMMEDIATELY FOLLOWING THE AWARDING OF THE CONTRACT, SUBMIT SHOP DRAWINGS, BROCHURES AND/OR DESCRIPTIVE LITERATURE FOR REVIEW TO THE HACP IN ACCORDANCE WITH THE GENERAL CONTRACT. ITEMIZE THE DRAWINGS SUBMITTED IN THE TRANSMITTAL LETTER. STAMP THE DRAWINGS WITH THE CONTRACTOR'S SEAL AS EVIDENCE THAT THE DRAWINGS HAVE BEEN THOROUGHLY REVIEWED BY THE CONTRACTOR FOR

CLEARLY MARK ALL PANELS, DISCONNECT SWITCHES, CONTROL DEVICES AND MISCELLANEOUS ELECTRICAL APPARATUS FOR EASY IDENTIFICATION AND FOR

PROVIDE PLASTIC NAMEPLATES ON ALL PANELBOARDS AND DISCONNECT

COMPLIANCE WITH THE CONTRACT DRAWINGS

SWITCHES. TYPE ALL CIRCUIT DIRECTORIES ON SUITABLE CARDS WHICH SHALL FIT INTO THE HOLDERS IN THE PANELBOARD DOORS. PROVIDE NEW PLASTIC SLEEVES ATTACHED TO THE INSIDE OF THE PANEL DOORS FOR THE NEW DIRECTORIES. CARDS SHALL INDICATE THE USE OF EACH CIRCUIT AND IN WHICH SPACE THE CIRCUIT IS UTILIZED TAG ALL CIRCUIT LINE CONDUCTORS IN LIGHTING AND POWER PANELS WITH GUMMED NUMBER LABELS TO INDICATE CIRCUIT NUMBERS PROVIDE ALL REQUIRED LABELS FOR CONDUCTOR COLOR CODING AND EQUIPMENT INTERRUPTING CAPACITIES, AS REQUIRED BY NEC. PROVIDE ALL REQUIRED LABELS FOR SAFETY PRECAUTIONS WHEN WORKING ON ELECTRICAL EQUIPMENT.

PERFORM THE INSTALLATION IN A NEAT AND ORDERLY MANNER. BE RESPONSIBLE FOR CLEANING UP ELECTRICAL WORK AND HAULING AWAY DEBRIS DAILY. EXERCISE DUE CARE IN THE HANDLING OF WASTE MATERIALS, SCRAP ITEMS AND PAPER. PERIODICALLY REMOVE ELECTRICAL WASTE MATERIALS, PAPER AND RUBBISH, MAINTAIN ORDER, ON COMPLETION OF THE JOB, REMOVE ALL TOOLS, EQUIPMENT, MATERIALS AND LOOSE PARTS. FINGERPRINTS AND SMEARS ON CEILINGS AND PAINTED WALLS WILL NOT BE TOLERATED. RESTORE ALL AREAS TO THEIR ORIGINAL CLEAN CONDITION, SATISFACTORY TO THE HACP LEAVE ALL LIGHTING, PLASTIC PANELS AND GLASSWARE IN A CLEAN CONDITION. WASH WITH A DETERGENT AND AIR DRY. LEAVE THE PREMISES CLEAN, FREE FROM ALL DEBRIS AND UNUSED CONSTRUCTION MATERIALS. DO A FINAL CLEAN UP AT THE JOB'S CONCLUSION.

UPON COMPLETION OF THE WORK, AND AS A CONDITION FOR ACCEPTANCE, TEST ALL SYSTEMS IN THE PRESENCE OF THE HACP. RETEST EQUIPMENT REQUIRING CORRECTION. MAKE ALL TESTS IN ACCORDANCE WITH REQUIREMENTS OF THE LOCAL AUTHORITIES HAVING JURISDICTION. TEST SECONDARY WIRING FOR CONTINUITY, SHORT CIRCUIT AND IMPROPER GROUNDS, AND SHOW AN INSULATION RESISTANCE BETWEEN CONDUCTORS AND GROUND NOT LESS THAN THE REQUIREMENTS OF THE N.E.C. OPERATE EACH LIGHTING CIRCUIT TO TEST EVERY FIXTURE

CORRECT ALL FAILURES OR IMPROPER OPERATIONS. FURNISH ALL NECESSARY TESTING EQUIPMENT AND PAY ALL COSTS OF TESTING, REPLACING AND RETEST ITEMS UNTIL SATISFACTORY PERFORMANCE IS OBTAINED AT NO ADDITIONAL CHARGE.

K. LOAD BALANCE AND PHASING

VARIOUS ELECTRICAL SYSTEMS.

PROPERLY BALANCE THE BUILDING ELECTRICAL LOADS ACROSS PHASES OF ALL LIGHTING AND POWER PANELS, TRANSFORMER TERMINALS, AND SERVICE ENTRANCE CONDUCTORS. WHEN ALL LOADS ARE TURNED ON THE INITIAL UNBALANCE SHALL NOT EXCEED 10%. PROVIDE FOR THE CORRECT DIRECTION OF ROTATION OF ALL MOTORIZED

L. <u>Instructions to operating personnel</u>
Furnish the services of a person or persons who is thoroughly FAMILIAR WITH THE COMPLETED INSTALLATION TO INSTRUCT THE HACP'S OPERATING PERSONNEL IN THE PROPER OPERATION, CARE AND MAINTENANCE OF ALL ELECTRICAL APPARATUS AND SYSTEMS. FURNISH THESE SERVICES FOR AT LEAST ONE FOUR HOUR PERIOD. DURING THIS TIME DEMONSTRATE TO THE HACP, THE COMPLETE OPERATION OF THE

BASIC ELECTRICAL MATERIALS AND INSTALLATION

A. MATERIAL IN GENERAL

MATERIALS SHALL BE NEW, TESTED AND LISTED BY UNDERWRITERS LABORATORIES, AND SHALL BEAR THE UNDERWRITERS LABEL WHERE SUCH LABELING SERVICE IS FURNISHED. MATERIALS SHALL MEET WITH THE APPROVAL OF ALL STATE AND LOCAL GOVERNING BODIES HAVING JURISDICTION MATERIALS SHALL BE MANUFACTURED IN ACCORDANCE WITH THE LATEST APPLICABLE STANDARDS ESTABLISHED BY ANSI, NEMA, ASTM AND IEEE. ALL SIMILAR MATERIALS SHALL BE MANUFACTURED BY THE SAME

B. <u>RACEWAYS</u>

MANUFACTURER.

RIGID HEAVY WALL STEEL CONDUIT AND ELECTRIC METALLIC TUBING SHALL BE STEEL, HOT DIPPED GALVANIZED AND ZINC COATED, INSIDE AND OUTSIDE. CONDUIT SHALL BEAR THE MANUFACTURER'S AND UNDERWRITERS' LABELS. THIN WALL CONDUIT IS DESIGNATED AS E.M.T. STEEL CONDUIT SHALL BE MANUFACTURED BY WHEATLAND, ALLIED, TRIANGLE. FLEXIBLE CONDUIT (GREENFIELD) SHALL BE U.L. LISTED, 3/4 INCH MINIMUM TRADE SIZE FOR BRANCH WIRING. GREENFIELD OF 1/2 INCH SIZE WILL BE PERMITTED FOR FINAL CONNECTIONS TO LIGHTING FIXTURES ONLY.

2. INSTALLATION MINIMUM SIZE CONDUIT IS 3/4 INCHES. INSTALL CONDUIT AS A COMPLETE SYSTEM, CONTINUOUS FROM OUTLET TO OUTLET. CABINET, BOX OR FITTING, MECHANICALLY AND ELECTRICALLY CONNECTED SO THAT ADEQUATE ELECTRICAL CONTINUITY IS SECURED.

C. <u>CONDUIT FITTINGS</u> 1. MATERIALS

ALL CONDUIT FITTINGS SHALL BE GALVANIZED MALLEABLE IRON OR STEEL, WHERE APPLICABLE CONDUIT FITTINGS SHALL CONFORM IN DESIGN AND QUALITY TO THE TYPE OF CONDUIT ON WHICH THEY ARE BEING INSTALLED.

2. INSTALLATION USE THREADED CONNECTORS ON GRS CONDUIT.

DO NOT ROUTE RACEWAYS THROUGH ANY DUCTWORK.

USE SET-SCREW STYLE CONNECTORS ON E.M.T. WHERE SAME IS RUN EXPOSED OR CONCEALED ABOVE GRADE. USE BUSHINGS, LOCKNUTS AND EXPANSION FITTINGS OF THE APPROPRIATE TYPE FOR THE RACEWAY SYSTEM BEING INSTALLED.

D. PULL BOXES, OUTLET BOXES AND COVERS

FOR EACH OUTLET BOX, USE THE PROPER CODE SIZE FOR THE ENTERING CONDUITS AND THE NUMBER OF WIRES TERMINATING THEREIN. USE BOXES WITH PLASTER RING EXTENSIONS IN PLASTERED OR DRY WALL

2. MATERIALS FOR LARGE PULL BOXES, USE BOXES OF CODE GAUGE SHEET STEEL WITH STEEL COVERS ATTACHED WITH BRASS SCREWS. BOXES SHALL BE HOT DIPPED, GALVANIZED AFTER FABRICATION - THE MINIMUM SIZE OF EACH BOX SHALL BE AS REQUIRED BY THE NATIONAL ELECTRIC CODE. MANUFACTURER'S ARE HOFFMAN, KEYSTONE OR EQUAL. FOR CONCEALED WORK, USE PRESSED STEEL BOXES, KNOCKOUT TYPE, ZINC COATED, OF 1/16 INCH MINIMUM THICKNESS. USE BOXES OF FORM AND DIMENSIONS BEST ADAPTED TO SPECIFIC LOCATION, KIND OF FIXTURE USED AND THE NUMBER, SIZE AND ARRANGEMENT OF RACEWAYS CONNECTING THERETO, USE STEEL CITY OR RACO. USE WIREMOLD FINISHED STYLE BOXES IN FINISHED AREAS WHERE CONCEALED

E. <u>CONDUCTORS IN RACEWAYS</u>

BOXES ARE NOT FEASIBLE.

CONDUCTORS SHALL BE SOFT DRAWN COPPER, MINIMUM 97% CONDUCTIVITY, 600 VOLT, CONFORMING TO ASTM SPECIFICATIONS AND THE LATEST REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE. INSULATION SHALL BE SUITABLE FOR THE CONDITIONS AND LOCATIONS IN WHICH CONDUCTORS ARE INSTALLED. THE FOLLOWING SHALL APPLY UNLESS OTHERWISE NOTED OR REQUIRED BY LOCATION OR INSTALLATION CONDITIONS: FOR BUILDING WIRE IN INTERIOR ABOVE GRADE LOCATIONS, USE TYPE THWN/THHN COPPER RATED 75 DEGREES C. WET OR DRY. WIRES SHALL BE CLEARLY AND REGULARLY MARKED WITH THE WIRE SIZE, VOLTAGE, INSULATION TYPE AND MANUFACTURER'S NAME. CONDUCTORS SHALL BE NEW AND MANUFACTURED WITHIN EIGHT MONTHS PREVIOUS TO DELIVERY AT SITE, WITH DATE OF MANUFACTURE MARKED ON THE MINIMUM WIRE SIZE FOR BRANCH CIRCUITING SHALL BE #12 AWG.

ALL CIRCUIT RUNS EXCEEDING 75 FEET IN LENGTH EXTENDING FROM THE PANELBOARD TO THE FIRST OUTLET IN THE CIRCUIT SHALL BE #10 AWG WIRE #8 AWG AND SMALLER SHALL BE SOLID; WIRE #6 AWG AND LARGER SHALL BE STRANDED. WIRE SHALL BE AS MANUFACTURED BY HI-TECH, PIRELLI, TRIANGLE OR EQUAL.

COLOR CODE ALL WIRES PER NEC REQUIREMENTS: A. MATCH THE EXISTING SCHEME PRESENTLY INSTALLED: NEUTRAL SHALL BE WHITE: FOUIPMENT GROUND SHALL BE GREEN THE GROUPING OF OUTLETS ON INDIVIDUAL NEW CIRCUITS AS SHOWN ON THE DRAWINGS SHALL BE STRICTLY OBSERVED. GROUPING OF CONDUCTORS IN THE CONDUIT SHALL NOT BE PERMITTED. INCORPORATE A MAXIMUM OF FOUR (4) WIRES, I.E. A MAXIMUM OF ONE CIRCUIT CONDUCTOR ON EACH PHASE PLUS THE NEUTRAL WIRE PLUS THE GROUND WIRE IN ONE CONDUIT. EMPLOY A U.L. LISTED COMMERCIAL PRODUCT SUCH AS WYRE-EZE OR YELLOW-77 FOR PULLING WIRES INTO A RACEWAY.

CLEAN AND DRY CONDUITS BEFORE PULLING IN WIRES. THE USE OF B.X., ROMEX, OR U.F. CABLE IS NOT PERMITTED. MC CABLE MAY BE USED FOR CONCEALED BRANCH CIRCUIT WIRING.

MAKE ALL SPLICES. JOINTS AND TAPS WITH SOLDERLESS PRESSURE CONNECTORS LISTED AND APPROVED FOR THE INTENDED USE AND FOR THE SIZE AND NUMBER OF CONDUCTORS UTILIZED 1. FOR WIRE #10 AWG AND SMALLER, USE TWIST-ON WIRE NUTS.

2. FOR WIRE #8 AWG AND LARGER, USE HEAVY DUTY SOLDERLESS SET SCREW CONNECTORS WITH A SEPARATE BARREL FOR EACH CONDUCTOR. USE INSULATING COVERS FROM THE MANUFACTURER, WHERE AVAILABLE, TAPE PROPERLY TO PROVIDE A SUFFICIENT INSULATION AROUND THE ENTIRE SPLICE UNIT, WHEN INTEGRAL INSULATING COVERS ARE NOT AVAILABLE FROM THE FITTING MANUFACTURER.

G. PANELBOARDS AND CABINETS CABINETS SHALL BE CONSTRUCTED OF CODE GAUGE GALVANIZED STEEL WITH WIRING GUTTERS OF SUFFICIENT WIDTH TO PROVIDE AMPLE SPACE FOR BRANCH CIRCUIT WIRES AND FEEDERS. GUTTERS SHALL NOT BE LESS THAN FOUR INCHES WIDE GUTTERS SHALL CONFORM TO NEC STANDARDS AND SHALL BE OVER-SIZED WHERE NECESSARY TO ACCOMMODATE THE ENTRANCE OF SEVERAL LARGE CONDUITS AND/OR WHERE NECESSARY TO AVOID OVERCROWDING OF CONDUCTORS OR FOUIPMENT WITHIN TRIMS SHALL BE SURFACE AS NOTED IN THE PANEL SCHEDULE AND SHALL CONTAIN CONCEALED HINGED DOORS. EACH EQUIPPED WITH FLUSH CHROME PLATED COMBINATION LOCKS AND CATCHES. ALL KEYED ALIKE. FINISH SHALL BE STANDARD BAKED ENAMEL OR LACQUER, MEDIUM GRAY, ANSI-61. PROVIDE TWO (2) KEYS WITH EACH PANEL. ALL LOCKS SHALL BE KEYED ALIKE. USE "DOOR IN A DOOR"

PANELBOARD BASIS OF DESIGN:

MANUFACTURER: GE, SIEMENS OR EQUAL. ELECTRICAL COMPONENTS, DEVICES, AND ACCESSORIES: LISTED AND LABELED IN ACCORDANCE WITH NFPA 70. BY QUALIFIED ELECTRICAL TESTING AGENCY RECOGNIZED BY AUTHORITIES HAVING JURISDICTION, AND MARKED FOR INTENDED LOCATION AND APPLICATION.

COMPLY WITH NEMA PB 1. COMPLY WITH NEPA 70. ENCLOSURES: SURFACE-MOUNTED, DEAD-FRONT CABINETS. INDOOR DRY AND CLEAN LOCATIONS: UL 50E, TYPE 1

OTHER WET OR DAMP INDOOR LOCATIONS: UL 50E

HEIGHT: 7 FT MAXIMUM. RETAIN ONE OF FIRST TWO SUBPARAGRAPHS BELOW, VERIFY WITH MANUFACTURER FOR AVAILABILITY OF "DOOR-IN-DOOR" CONSTRUCTION IN OTHER THAN NEMA 1 STYLE PANELBOARDS. HINGED FRONT COVER: ENTIRE FRONT TRIM HINGED TO BOX AND WITH STANDARD DOOR WITHIN HINGED TRIM COVER. TRIMS MUST COVER LIVE PARTS AND MAY HAVE NO EXPOSED HARDWARE.

INCOMING MAIN ON TOP 20 SPACE- 40 CIRCUITS MINIMUM.

BUSING SHALL BE FULL CAPACITY, 98% CONDUCTIVITY COPPER OR 80% CONDUCTIVITY ALUMINUM, BRACED FOR THE SHORT CIRCUIT CURRENT AVAILABLE TO THE PANEL AND SIZED AS SHOWN IN THE PANEL DETAIL. CIRCUIT BREAKERS SHALL BE CONNECTED TO BUSES WITH BOLTED CONNECTIONS FOR SEQUENCE PHASING: I.E., CIRCUITS 1 AND 2 CONNECTED TO PHASE A; 3 AND 4 O PHASE B AND SO ON. POLARITY OR BLOCK PHASING SHALL NOT BE ACCEPTABLE. PANEL SHALL INCLUDE A NEUTRAL BUS AND AN EQUIPMENT GROUNDING BUS, CIRCUIT BREAKERS SHALL BE MOLDED CASE TYPE, BOLT-ON, WITH THERMAL AND MAGNETIC TRIPS, TRIP-FREE ON OVERLOAD OR SHORT CIRCUIT, UL LISTED, HAVING INTERRUPTING CAPACITIES, AS INDICATED.

H. WIRING DEVICES AND PLATES

ALL WIRING DEVICES SHALL BE MANUFACTURED BY ONE OF THE MANUFACTURERS LISTED. DO NOT MIX MANUFACTURER'S PRODUCTS. DEVICES SHALL BE U.L. SPECIFICATION GRADE.

SWITCHES SHALL CONFORM TO NEMA HEAVY DUTY STANDARDS AND SHALL BE GENERAL USE, AC QUIET TYPE, 20 AMPERE, 120/277 VOLT, BACK AND SIDE WIRED. VERIFY COLOR OPTIONS WITH THE ARCHITECT.

3 WALL SWITCH TABLE THE FOLLOWING ENTRIES ARE ACCEPTABLE EQUIVALENTS FROM EACH OF THE LISTED MANUFACTURERS

20 AMP SINGLE POLE WALL SWITCH - HUBBELL #HBL-1221, P & S #20AC1, COOPER #1221 BRYANT #4901 OR LEVITON #1221-2 20 AMP 3-WAY WALL SWITCH - HUBBELL #HBL-1223, P & S #20AC3, COOPER #1223, BRYANT #4903, OR LEVITON #1223-2. USE SIMILAR SERIES FOR 4-WAY SWITCHES.

4. WALL RECEPTACLES ALL CONVENIENCE AND POWER RECEPTACLES SHALL CONFORM TO NEMA HEAVY DUTY STANDARDS AND SHALL BE THE GROUNDING TYPE. CONVENIENCE RECEPTACLES SHALL BE 20 AMP, 125 VOLT, BACK AND SIDE WIRED, 3 WIRE GROUNDING, UL LISTED AS COMPLYING WITH THE REQUIREMENTS OF NEC ARTICLE 250-146. AND SHALL BE NEMA 5-20R

CONFIGURATION. VERIFY COLOR OPTIONS WITH THE ARCHITECT.

5. RECEPTACLE TABLE THE FOLLOWING ENTRIES ARE ACCEPTABLE EQUIVALENT FROM EACH OF THE LISTED MANUFACTURERS

20 AMP, 125 VOLT DUPLEX CONVENIENCE OUTLET (NEMA 5-20R) - HUBBELL #HBL-5362. P & S #5362A. COOPER #5362. BRYANT #5362. OR LEVITON #5362. 20 AMP, 125 VOLT GROUND FAULT INTERRUPTER (NEMA 5-20R) - HUBBELL #GF-5362, P & S #2091, COOPER #XGF-20, BRYANT #GFR53FT, OR LEVITON #8899.

USE STAINLESS STEEL PLATES.

I. <u>FASTENINGS AND ATTACHMENTS</u>
FOR FASTENINGS AND ATTACHMENTS, SUCH AS SCREWS, BOLTS AND NUTS, USE DEVICES MADE OF NON-FERROUS METALS OR OF GALVANIZED OR CADMIUM PLATED STEEL. WHEN SUCH DEVICES ARE NOT OBTAINABLE IN NON-FERROUS METALS. OR IN STEEL WITH A PROTECTIVE METALLIC COATING. PAINT SAME WITH A RUST PREVENTING PAINT SUCH AS RUSTOLEUM ALL FASTENINGS AND ATTACHMENTS SHALL BE MADE OF MATERIALS OR SC PROTECTED. THAT THEY WILL OFFER THE MAXIMUM PROTECTION AGAINST DETERIORATION FROM AGE. WEATHER OR DAMPNESS. DO NOT PENETRATE THE ROOF DECK WITH ANY FASTENERS.

J. <u>SURFACE METALLIC RACEWAY SYSTEM</u> USE A SURFACE METAL RACEWAY SYSTEM AND BOXES, WHERE CONCEALED MIRING IS NOT POSSIBLE OR WHERE SHOWN ON THE PLANS. USE RACEWAYS, SUCH AS WIREMOLD, FOR STRAIGHT RUNS. COMPLETE WITH BOXES AND FITTINGS, AS DIRECTED. VERIFY COLOR OPTIONS WITH THE ARCHITECT. PAINT SAME WHERE REQUIRED OR INDICATED.

OBTAIN APPROVAL FOR ALL SURFACE ROUTINGS WITH THE ARCHITECT PRIOR

K. <u>FIRE STOPS</u>

TO ROUGH-IN.

PROVIDE THROUGH PENETRATION FIRE STOP SYSTEMS TO PREVENT THE SPREAD OF FIRE THROUGH OPENINGS MADE IN FIRE-RATED WALLS OR FLOORS TO ACCOMMODATE THROUGH PENETRATING ITEMS SUCH AS CONDUIT AND FIRE-RESISTANCE-RATED ASSEMBLY SHALL BE INSTALLED AS TESTED IN THE APPROVED FIRE-RESISTANCE-RATED ASSEMBLY OR SHALL BE PROTECTED BY AN APPROVED THROUGH-PENETRATION FIRE STOP SYSTEM INSTALLED AND TESTED IN ACCORDANCE WITH ASTM-E-814 OR U.L. 1479, WITH A MINIMUM POSITIVE PRESSURE DIFFERENTIAL OF 0.01 INCH (2.49 PA) OF WATER. THE SYSTEM SHALL HAVE AN F RATING AND A T RATING OF NOT LESS THAN 1 HOUR BUT NOT LESS THAN THE REQUIRED RATING OF THE FLOOR PENETRATED. WHERE FLOOR/CEILING ASSEMBLIES ARE REQUIRED TO HAVE A MINIMUM 1-HOUR FIRE RESISTANCE RATING RECESSED FIXTURES SHALL BE INSTALLED SUCH THAT THE REQUIRED FIRE RESISTANCE WILL NOT BE REDUCED. FIRE STOP SHALL RESTORE FLOOR AND WALL TO ORIGINAL FIRE RATED INTEGRITY AND SHALL BE WATERPROOF.

PENETRATIONS OF MEMBRANES THAT ARE PART OF A FIRE-RATED WALL OR FLOOR MUST BE STOPPED AS OUTLINED FOR THROUGH PENETRATIONS WITH THE FOLLOWING EXCEPTIONS. A. STEEL ELECTRICAL BOXES THAT DO NOT EXCEED 16 SQUARE INCHES IN AREA PROVIDED THE TOTAL AREA OF SUCH OPENINGS DOES NOT EXCEED 100 SQUARE INCHES FOR ANY 100 SQUARE FEET OF WALL AREA. B. OUTLET BOXES ON OPPOSITE SIDES OF THE WALL SHALL BE SEPARATED AS INDICATED 1. BY HORIZONTAL DISTANCE OF NOT LESS THAN 24 INCHES. 2, BY HORIZONTAL DISTANCE OF NOT LESS THAN THE DEPTH OF THE WALL

CAVITY IS FILLED WITH CELLULOSE LOOSE FILL ROCK WOOL OR SLAG MINERAL

WOOL INSULATION 3 BY SOLID FIRE BLOCKING 4. BY PROTECTING BOTH OUTLET BOXES BY LISTED PUTTY PADS. 5. BY OTHER LISTED MATERIALS AND METHODS.

PUTTY - USE FLAMESEAL PUTTY #AA423 AS MANUFACTURED BY NELSON FLECTRIC TULSA OKLAHOMA FIBER - USE CERAMIC FIBER #AA401 (10 LB. BOX) OR #AA417 (2 LB. BAG) AS MANUFACTURED BY NELSON ELECTRIC, TULSA, OKLAHOMA. OVERSIZED OPENINGS IN WALLS - USE CERAMIC BOARD #AA402 (1" X 18" X 12") OR #AA403 (1" X 36" X 48") AS MANUFACTURED BY NELSON ELECTRIC, TULSA, OVERSIZED OPENINGS IN FLOOR - USE SUPPORT WIRE #AA404 AS MANUFACTURED BY NELSON ELECTRIC, TULSA, OKLAHOMA.

3. INSTALLATION USE TOTAL THICKNESS OF 1-1/2 INCHES OF FLAMESEAL PUTTY #AA423 ON ALL PENETRATIONS OF FIRE-RATED WALLS AND FLOORS. USE NELSON FIBER #AA401 OR #AA417 IN CONJUNCTION WITH THE PUTTY TO FILL THE REMAINING VOID OF PACK CERAMIC FIBER IN CENTER OF OPENING LEAVING 3/4 INCH ON EITHER SIDE OF WALL FOR THE PUTTY. INSTALL THE PUTTY IN THE REMAINING PART OF OPENING, WORKING IT INTO ALL VOIDS AND CAVITIES. FOR OPENINGS WITH GREATER THAN 4 INCHES OF UNSUPPORTED SPACE. USE NELSON CERAMIC BOARD #AA402 OR #AA403 DEPENDING ON SIZE OF OPENING. PACK CERAMIC FIBER IN BOTTOM OF OPENING PER FACTORY RECOMMENDATIONS, LEAVING 1 1/2 INCHES BELOW FLOOR LEVEL FOR THE INSTALLATION OF FLAMESEAL PUTTY. USE SUPPORT WIRE #AA404 ON ALL PENETRATIONS IN EXCESS OF 6 INCHES

METAL CLAD CABLE (MC) SHALL BE COPPER WIRE WITH 90 DEGREES C. THHN INSULATION, #12 AWG MINIMUM, WITH CONTINUOUS INSULATED GREEN GROUND CONDUCTOR AND STEEL ARMOR, MANUFACTURED BY A.F.C., ALFLEX, OR EQUAL INSTALL NON-RIGID CABLE IN A NEAT, APPROVED MANNER, AS PER N.E.C REQUIREMENTS. DO NOT GROUP CABLES INTO A COMMON CONDUIT AS OVERHEATING WILL RESULT. DO NOT TIE THE SEVERAL CABLES TOGETHER. USE APPROVED STYLE "MC" CONNECTORS AND FITTINGS IN ORDER TO MAINTAIN ADEQUATE CASE GROUNDING REQUIRED BY THE NATIONAL ELECTRICAL CODE. PROVIDE AN INDEPENDENT MEANS OF SUPPORT FOR ALL WIRING LOCATED ABOVE A DROPPED CEILING ASSEMBLY FROM THE STRUCTURAL CEILING SYSTEM. DO NOT SUPPORT WIRING FROM THE CEILING ASSEMBLY OR FROM ITS

SERVICE AND DISTRIBUTION

A. GENERAL INSTALLATION

USE RIGID HEAVY WALL STEEL CONDUIT FOR EXPOSED EXTERIOR RACEWAYS. USE EMT ELECTRICAL METALLIC THINWALL CONDUIT FOR CONCEALED INTERIOR FEEDERS, TELEPHONE RACEWAYS, ETC. USE FLEXIBLE CONDUIT SUCH AS "GREENFIELD" FOR CONNECTIONS TO RECESSED LIGHTING FIXTURES IN 72" MAXIMUM LENGTHS AND FOR USE IN STUD WALLS WHERE THE USE OF RIGID CONDUIT IS NOT PRACTICAL. USE WEATHERPROOF AND OILPROOF FLEXIBLE CONDUIT SUCH AS "SEAL-TITE" FOR ALL FINAL CONNECTIONS TO MOTORS AND VIBRATING EQUIPMENT IN LENGTHS OF 18" MAXIMUM. USE LIQUID-TIGHT FLEXIBLE CONDUIT AND APPROPRIATE LIQUID-TIGHT FITTINGS IN AREAS EXPOSED TO THE WEATHER OR LIKELY TO BECOME DAMP. WHERE USED, CONFORM TO NEC #250-118 USE WIREMOLD RACEWAYS FOR BRANCH CIRCUIT SURFACE ROUTINGS IN FINISHED AREAS ONLY WHERE CONCEALED WIRING IS NOT FEASIBLE, AND WHERE INDICATED. USE M.C. CABLE FOR CONCEALED BRANCH CIRCUIT WIRING ONLY, IN ACCORDANCE WITH THE N.E.C. REQUIREMENTS. THE USE OF B.X., ROMEX, AND U.F. IS NOT APPROVED.

LIGHTING FIXTURES AND ACCESSORIES

RECESSED LIGHTING: HALO OR EQUAL.

LIGHTING FIXTURES

GENERALALL LIGHTING FIXTURES AND LAMPS WILL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR

BASIS OF DESIGN LIGHTING FIXTURES BY KICHLER OR EQUAL. CEILING FIXTURE: KICHLER #8112WH, WHITE FINISH, SURFACE MOUNTED EXTERIOR CEILING FIXTURE: KICHLER #11132AZTLED. OUTDOOR RATED. WALL EXTERIOR: KICHLER #9654TZ, WALL MOUNTED, OUTDOOR RATED BATHROOM VANITY: KICHLER JOELSON #45923 FLOOD LIGHT: LITHONIA LIGHTING OLF LED WITH MOTION OCCUPANCY SENSOR

PROVIDE ALL SUPPLEMENTARY STRUCTURAL MATERIALS REQUIRED TO PROPERLY MOUNT ALL LIGHTING FIXTURES. SECURELY MOUNT LIGHTING FIXTURES TO STRUCTURAL ELEMENTS OF THE BUILDING OR TO SUSPENDED CEILING SYSTEMS SUCH THAT SAID FIXTURES WILL BE SQUARE PLUMB AND RIGID WILL NOT FALL OR SAG AND WILL NOT CALISE THE SUSPENDED CEILING SYSTEM TO SAG. PROVIDE ADDITIONAL CEILING SUPPORTS. WHERE REQUIRED TO SUPPORT RECESSED OR SURFACE FIXTURES. INSTALL WIRING TO AND WITHIN FIXTURES TO COMPLY WITH NEC ARTICLE #410. TAKE SPECIAL CARE TO ASSURE THAT THE FIXTURE OUTLETS FOR RECESSED FIXTURES ABOVE SOLID SUSPENDED CEILINGS WILL ACTUALLY BE ACCESSIBLE AFTER THE PROJECT IS COMPLETED. USE CLIPS TO FASTEN RECESSED TROFFERS TO DROP CEILING CHANNELS AS REQUIRED BY NEC SECTION #410-16. USE CADDY FASTENERS #515 OR TIME CLOCKS SHALL BE COMMERCIAL GRADE, 7 DAY, ASTRONOMICAL DIAL, WITH

24-HOUR SPRING RESERVE BACKUP, AS MANUFACTURED BY TORK OR PARAGON

MOTOR WIRING

WIRING FOR HVAC AND PLUMBING CONTRACTS

VERIFY ALL LOCATIONS WITH THE VARIOUS MECHANICAL CONTRACTORS BEFORE INSTALLING RACEWAYS. PROVIDE ALL WIRING MATERIALS AND DEVICES REQUIRED TO CONNECT AND OPERATE THE ELECTRICAL PARTS OF EQUIPMENT FURNISHED AND INSTALLED UNDER THE MECHANICAL DIVISION. INSTALL AND CONNECT ALL STARTERS, PUSHBUTTONS, SWITCHES, THERMOSTATS AND OTHER CONTROL DEVICES AS FURNISHED BY OTHERS UNLESS OTHERWISE NOTED. MAKE ALL FINAL CONNECTIONS TO MOTORIZED EQUIPMENT. VERIFY THE CORRECT DIRECTION OF ROTATION. CONNECT MOTOR CIRCUITS TO THE RIGID CONDUIT SYSTEM BY MEANS OF WEATHERPROOF STYLE FLEXIBLE CONDUIT, PROPERLY GROUNDED AND BONDED. EMPLOY A GREEN GROUND WIRE FOR ALL SYSTEMS AND MOTOR FRAME GROUND CONNECTIONS BOLT THE WIRE TO THE MOTOR FRAME AT ONE END AND TO THE MOTOR STARTER AT THE OTHER END WITH APPROVED TERMINAL DEVICES. DO ALL LINE VOLTAGE CONTROL WIRING (120 VOLT AND HIGHER). ALL LOW VOLTAGE CONTROL WIRING (UNDER 120 VOLTS) IS THE RESPONSIBILITY OF THE HVAC OR PLUMBING CONTRACTS.

SECTION 32- EXTERIOR IMPROVEMENTS

QUALITY, NON-STATE CERTIFIED: SEED OF GRASS SPECIES AS LISTED BELOW FOR SOLAR EXPOSURE WITH NOT LESS THAN 85 PERCENT GERMINATION NOT LESS THAN 95 PERCENT PURE SEED, AND NOT MORE THAN 0.5 PERCENT WEED

A.SOW SEED WITH SPREADER OR SEEDING MACHINE. DO NOT BROADCAST OR DROP SEED WHEN WIND VELOCITY EXCEEDS 5 MPH. 1.EVENLY DISTRIBUTE SEED BY SOWING EQUAL QUANTITIES IN TWO DIRECTIONS AT RIGHT ANGLES TO EACH OTHER. 2.DO NOT USE WET SEED OR SEED THAT IS MOLDY OR OTHERWISE DAMAGED. 3.DO NOT SEED AGAINST EXISTING TREES. LIMIT EXTENT OF SEED TO OUTSIDE EDGE OF PLANTING SAUCER.

B. RAKE SEED LIGHTLY INTO TOP 1/8 INCH OF SOIL, ROLL LIGHTLY, AND WATER

C. PROTECT SEEDED AREAS FROM HOT. DRY WEATHER OR DRYING WINDS BY APPLYING COMPOST MULCH WITHIN 24 HOURS AFTER COMPLETING SEEDING OPERATIONS. SOAK AREAS, SCATTER MULCH UNIFORMLY TO A THICKNESS OF 3/16 INCH >, AND ROLL SURFACE SMOOTH.

SECTION 33- UTILITIES - NOT APPLICABLE

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ISSUED FOR BID & CONSTRUCTION

general notes

Any conflicts in the drawings or between new and existing construction shall be referred to the Architect.

2. Contractor shall verify all dimensions and existing conditions in the field and shall advise Fukui Architects, **Pc** of any discrepancies between, additions to, deletions from, or alterations to any and all conditions prior to proceeding with any phase of work. Do not scale

3. All work shall be installed in accordance with applicable codes and regulations.

4. Contractor shall be responsible for the patching, repairing, and preparations of all existing floor, wall, and ceiling surfaces as required to receive scheduled finishes.

5. All items shown on drawings are finished construction assemblies. Contractor shall provide and install all material required for finished assemblies

6. All reports, plans, specifications, computer files, field data, notices, and other documents and instruments prepared by the Architect as instruments of service shall remain the property of the Architect. The Architect shall retain all common law statutory, and other reserved rights, including the copyright thereto.

revisions

SUBMIT FOR PERMIT 6.19.2024 PLI REVISIONS 7.31.2024

PLI REVISIONS 8.22.2024

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project title

Owner:

HACP 412 Boulevard of the Allies Pittsburgh, PA, 15219

Client:

HACP 412 Boulevard of the Allies Pittsburgh, PA 15219

Project Location:

728 Montooth St. Rehabilitation 728 Montooth St. Pittsburgh, PA 15210

Outline Specifications Montooth

drawing title

As Noted 05/24/2024

06.12.24

Sheet No.