

**GIANFORCARO
ARCHITECTS
ENGINEERS
& PLANNERS**

555 EAST MAIN ST.
CHESTER, N.J. 07930
PHONE: (908) 879-6001
FAX: (908) 879-8505

- ARCHITECTURAL
- CIVIL
- STRUCTURAL
- CONSTRUCTION
- ENVIRONMENTAL
- MECHANICAL
- FORENSIC

Anthony P. Gianforcaro
ANTHONY P. GIANFORCARO, AIA, PE
REGISTERED ARCHITECT
N.J. LIC. NO. 13996
PROFESSIONAL ENGINEER
N.J. LIC. NO. 39006
P.A. LIC. NO. 43077

GEORGE F. GIANFORCARO, P.E., P.P.
PROFESSIONAL ENGINEER
N.J. LIC. NO. 19288
P.A. LIC. NO. 17377
N.Y. LIC. NO. 52202
PROFESSIONAL PLANNER
N.J. LIC. NO. 3501

**PROPOSED
TEMPORARY
CLASSROOM UNITS**

**AT VARIOUS
SCHOOLS**

**FOR THE
HACKETTSTOWN
BOARD OF
EDUCATION**

315 WASHINGTON ST
HACKETTSTOWN, NJ
07840

**WARREN COUNTY
NEW JERSEY**

**PROPOSED SITE
PLAN- HATCHERY
HILL ELEMENTARY
SCHOOL**

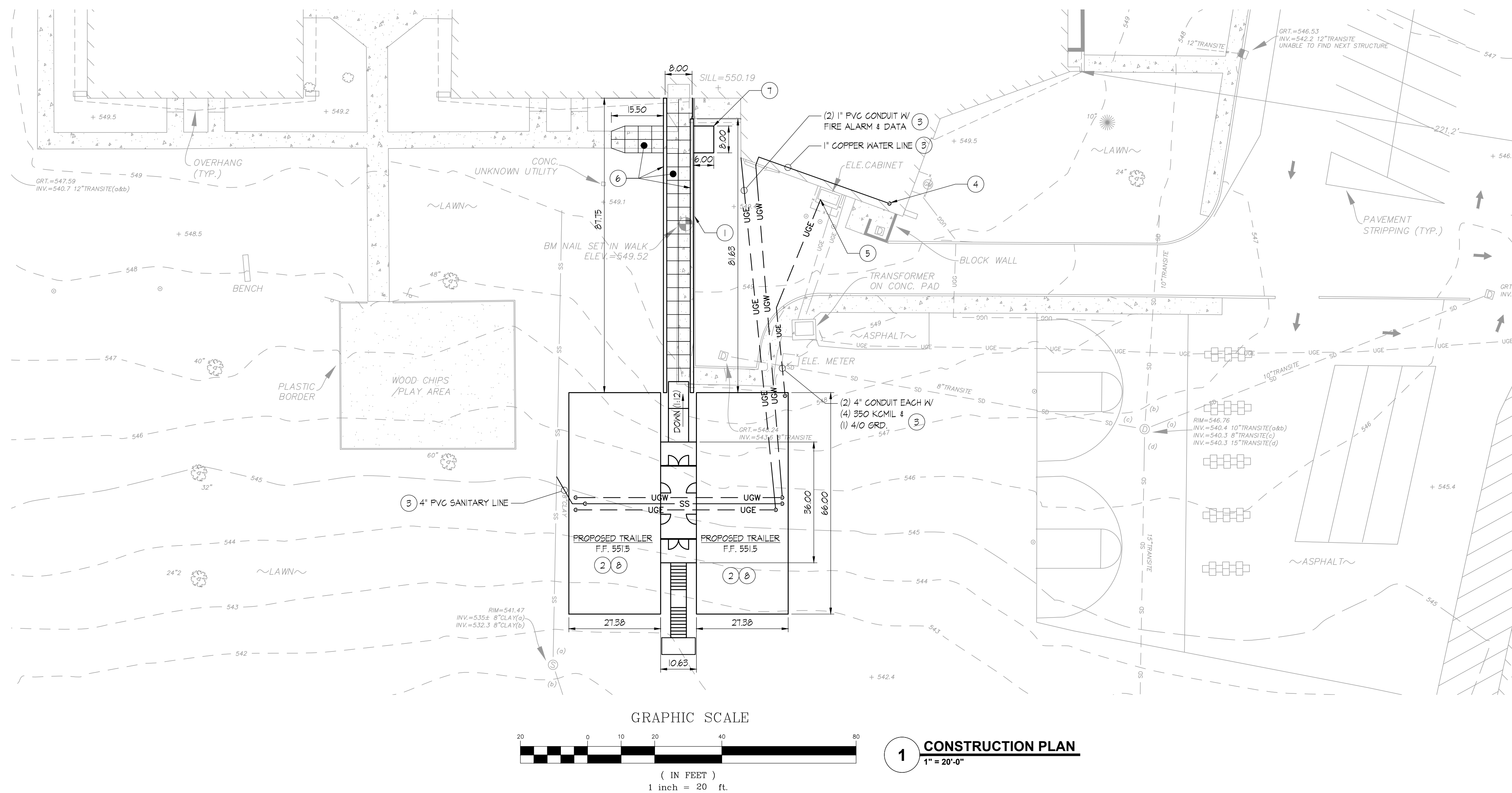
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FILE
TCUs-All Schools R2

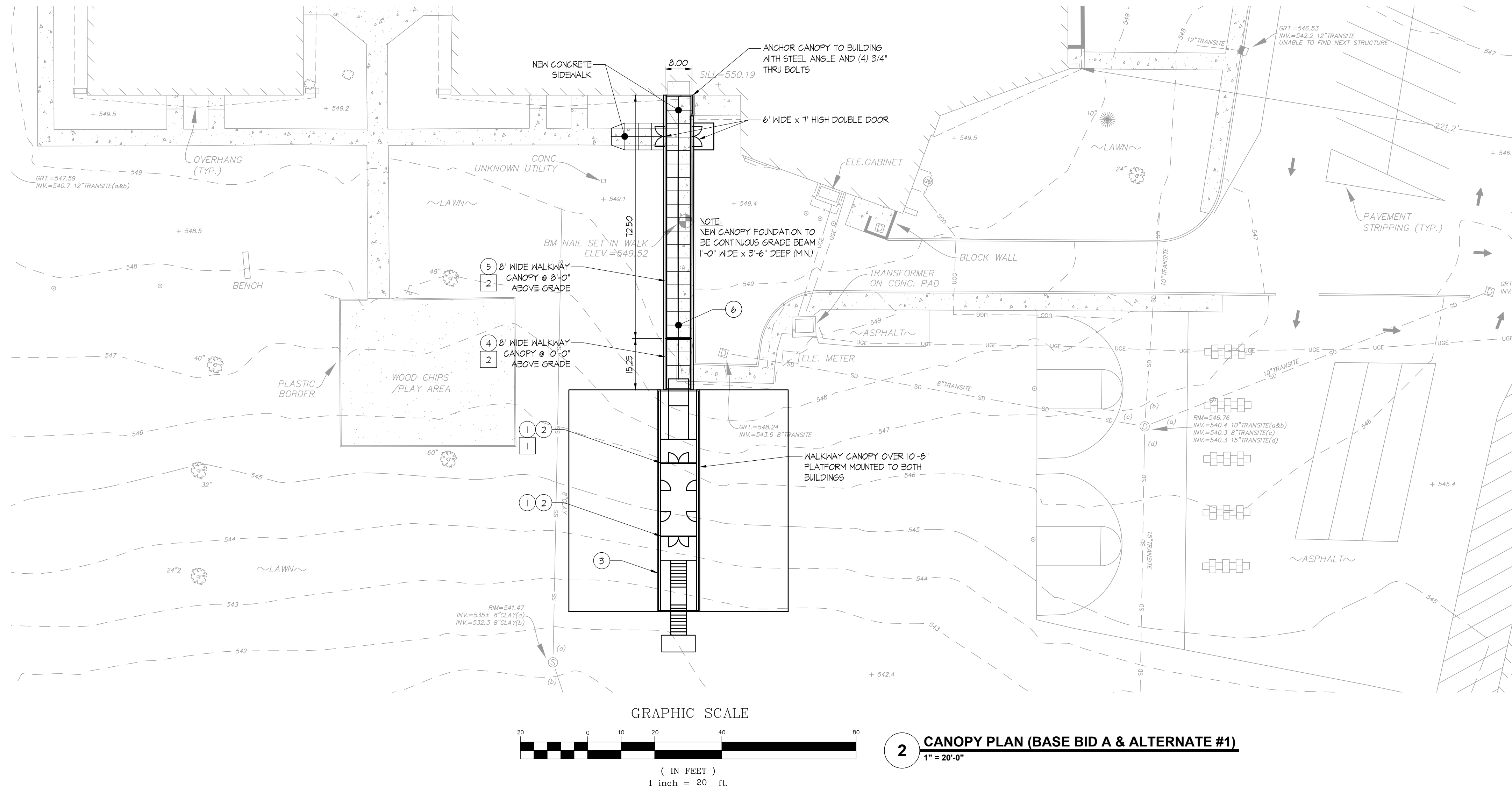
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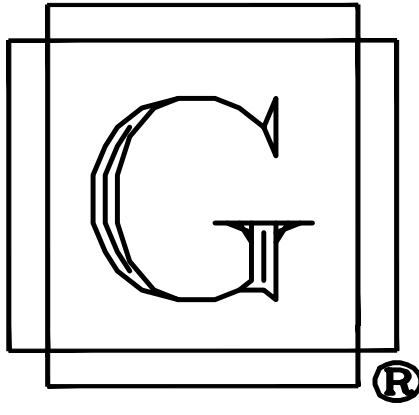
SP-1



- CONSTRUCTION NOTES:**
1. SAW CUT AND REMOVE EXISTING ASPHALT, SIDEWALK AND CONCRETE CURB ALONG THE FULL LENGTH OF THE EDGE OF THE PARKING LOT TO ACCOMMODATE THE NEW CONCRETE GRADE BEAMS AND NEW CONCRETE SIDEWALK.
 2. EXCAVATE AS NECESSARY TO INSTALL CONCRETE FOOTINGS FOR NEW TRAILER. SEE SHEET S-1 FOR FOOTING SIZES AND LOCATIONS.
 3. SAW CUT ASPHALT AND EXCAVATE TRENCHES AS NECESSARY TO INSTALL NEW UNDERGROUND ELECTRICAL CONDUITS (2) 1" PVC FOR FIRE ALARM AND DATA WATER PIPING (1" COPPER) AND SANITARY SEWER (4" PVC) UTILITIES. AFTER ALL UTILITIES ARE INSTALLED, BACKFILL ALL TRENCHES, COMPACT SUBGRADE AND INSTALL NEW STONE AND ASPHALT AS PER ASPHALT SECTION FOR SANITARY SEWER UTILITY. DROP NEW SANITARY LATERAL TO EXISTING SANITARY MAIN AND TIE INTO EXISTING SANITARY MAIN. REPLACE ALL CONCRETE SIDEWALK (AT EXISTING JOINTS) AND CURBING TO MATCH EXISTING. RESTORE LAWN AREA WITH TOP SOIL, FERTILIZER AND MULCH. NEW UNDERGROUND WATER PIPING MUST BE INSTALLED A MINIMUM OF 3'-6" BELOW GRADE AND PROPERLY HEAT TRACED AT ALL LOCATIONS ABOVE 3'-6" BELOW GRADE.
 4. TIE NEW WATER LINE TO EXISTING WATER UTILITY IN BOILER ROOM WHERE SHOWN. INSTALL NEW SHUT-OFF VALVE AT TIE-IN. TIE ALL NEW FIRE ALARM DEVICES INTO EXISTING FIRE ALARM CONTROL PANEL (FACP) LOCATED IN MAIN OFFICE.
 5. INSTALL NEW UNDERGROUND 600 AMP. ELECTRIC SERVICE TO NEW TCUs FROM EXISTING EXTERIOR ELECTRICAL PANEL. SEE SHEET E-2 FOR CONDUIT AND WIRE SIZES. EXCAVATE TRENCH AS NECESSARY FOR NEW UNDERGROUND SERVICE. BACKFILL TRENCH AND INSTALL NEW ASPHALT.
 6. INSTALL NEW CONCRETE SIDEWALKS WHERE SHOWN. INSTALL 1'-0" WIDE BY 3'-6" DEEP CONCRETE GRADE BEAMS ON BOTH SIDES OF NEW SIDEWALK. THE NEW SIDEWALK SHOULD BE SET AT AN ELEVATION OF 550.14 WITH A CROSS SLOPE OF 0.3% ALONG THE FULL LENGTH. THE GRADE BEAMS SHALL BE FLUSH WITH THE NEW SIDEWALK. ONE SET AT 550.14 AND THE OTHER SET AT 550.14 ALONG THE FULL LENGTH. INSTALL NEW 10'-0" x 5'-0" 4" THICK CONCRETE PAD AT BASE OF NEW ALUMINUM STAIRS.
 7. INSTALL ADA ACCESSIBLE ASPHALT RAMP 8'-0" WIDE BY APPROXIMATELY 6'-0" LONG WHERE SHOWN.
 8. TIE NEW TRAILER UNITS. ALUMINUM STAIRS (UPSIDE INNOVATIONS) HILLSIDE ALUMINUM STAIRS, PLATFORM AND 18" LONG ADA ACCESSIBLE RAMP ALL WITH PROPER HANDRAILS AND GUARDRAILS AS PER DRAWINGS AND MANUFACTURER'S SPECIFICATIONS. THE NEW ALUMINUM PLATFORM SHALL HAVE 3'-0" HIGH GUARDRAILS ALONG BOTH ENDS BETWEEN THE TWO (2) TRAILER UNITS, WITH THE EXCEPTION OF AT THE NEW STAIRS AND ADA RAMP. ALL CONCRETE PIERS FOR THE NEW TRAILER UNITS MUST HAVE CROSS BRACING INSTALLED DUE TO THE STEEP GRADE CHANGE AND EXPOSURE OF THE CONCRETE PIERS.

- CANOPY CONSTRUCTION NOTES:**
- BASE BID A:**
1. INSTALL TWO (2) SETS OF NEW WINDOW WALL/DOOR SYSTEMS 4'-0" HIGH BY THE FULL WIDTH BETWEEN THE TRAILER UNITS (APPROXIMATELY 10'-8"). SYSTEM SHALL BE KAWNEER 8000 SS UNTWALL 6" DEEP SHOROFRONT SYSTEM (1) 1/4" INFLU OR EQUAL. EACH SYSTEM SHALL HAVE TWO (2) 6'-0" x 7'-0" HINGED FRP/GLASS DOUBLE DOORS AND 1M FRAME, MULLION, CONTINUOUS HINGES, LOCKSET, PUSH BARS W/ ADA HARDWARE ALWAYS ACTIVE FROM INSIDE, KICK PLATES, VOP PLATES, DOOR CLOSURES, SMOKE/ SOUNDSEALS, COLOR AND FINISHES BY OWNER.
 2. INSTALL 1" CONDUIT STRAPPED TO THE UNDERSIDE OF THE NEW CANOPY FROM THE TWO (2) SETS OF WINDOW WALL/DOOR SYSTEMS TO THE MAIN OFFICE. INSTALL ELECTRIC STRINGS AND DOOR BUZZER SYSTEM TO BE CONTROLLED BY MAIN OFFICE. INSTALL KEYCARD ACCESS POINTS AT BOTH WINDOW WALL/DOOR SYSTEMS TO BE TIED INTO EXISTING SYSTEM.
 3. INSTALL UPSIDE INNOVATIONS OVERHEAD CANOPY ABOVE PLATFORM BETWEEN THE TWO TRAILER UNITS. THE CANOPY SHALL BE 66'-0" LONG BY 12'-8" WIDE AND SHALL BE MOUNTED TO BOTH TRAILERS VIA WALL BRACKETS AS PER MANUFACTURER'S SPECIFICATIONS.
 4. INSTALL AN 8'-0" WIDE BY 15'-3" LONG BRASCO SLIMLINE WALKWAY CANOPY SYSTEM 10'-0" ABOVE GRADE. CANOPY SHALL HAVE A STANDING SEAM ALUMINUM SHED ROOF WITH INTEGRAL GUTTERS, DOWNSPOUTS AND CONCRETE SPLASH PADS. INSTALL CANOPY AS PER MANUFACTURER'S SPECIFICATIONS. CANOPY SHALL BE MOUNTED WITHIN NEW CONCRETE GRADE BEAMS.
 5. INSTALL A 8'-0" WIDE BY 12'-8" LONG BRASCO SLIMLINE WALKWAY CANOPY SYSTEM 8'-0" ABOVE GRADE. CANOPY SHALL HAVE A STANDING SEAM ALUMINUM SHED ROOF WITH INTEGRAL GUTTERS, DOWNSPOUTS AND CONCRETE SPLASH PADS. INSTALL CANOPY AS PER MANUFACTURER'S SPECIFICATIONS. CANOPY SHALL BE MOUNTED WITHIN NEW CONCRETE GRADE BEAMS.
 6. INSTALL NEW LED SURFACE MOUNTED LIGHT FIXTURES SPACED EVERY 6'-0" O.G. TO THE UNDERSIDE OF BOTH NEW WALKWAY CANOPIES. ALL LIGHTS SHALL BE CONTROLLED VIA TWO (2) THREE WAY EXTERIOR W/ SATCHES LOCATED AT THE NEW TRAILER UNITS, AND AT THE SCHOOL'S EXTERIOR DOORS. NEW LIGHTS SHALL BE POWERED BY A DEDICATED CIRCUIT WITHIN ONE OF THE NEW TRAILER ELECTRICAL PANELS.
- ALTERNATE #B:**
1. ONE (1) OF THE TWO (2) NEW KAWNEER WINDOW WALL/DOOR SYSTEMS SPECIFIED IN BASE BID B SHALL BE REMOVED FROM THE SCOPE OF WORK.
 2. THE TWO (2) BRASCO SLIMLINE WALKWAY CANOPIES SPECIFIED IN THE BASE BID B NOTES SHALL INCLUDE GLAZING BETWEEN ALL CANOPY POSTS. ALL GLAZING SHALL BE A MINIMUM OF 8' ABOVE THE CONCRETE GRADE BEAMS AND SHALL STOP 8' BELOW THE UNDERSIDE OF THE CANOPIES. INSTALL TWO (2) SETS OF 6'-0" x 7'-0" DOUBLE DOORS WHERE SHOWN. DOORS SHALL HAVE PANG BAR HARDWARE WITHIN THE CANOPY, AND ADA ACCESSIBLE LEVER HARDWARE ON THE EXTERIOR OF THE CANOPY. THE DOORS SHALL ALWAYS BE ACTIVE FROM THE INSIDE, AND LOCKED ON THE EXTERIOR SIDE.





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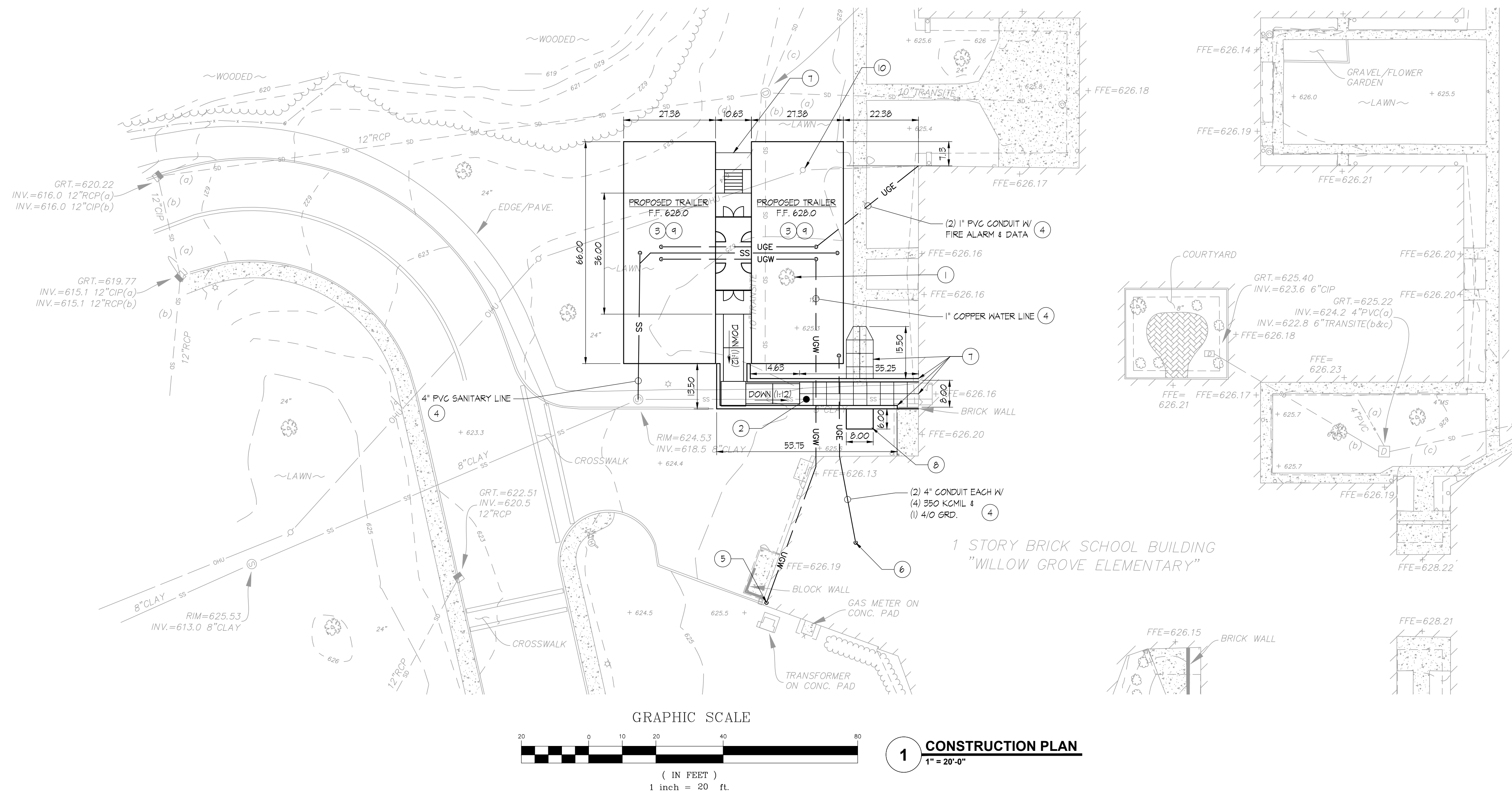
**WARREN COUNTY
NEW JERSEY**

**PROPOSED SITE
PLAN— WILLOW
GROVE ELEMENTARY
SCHOOL**

SCALE: AS NOTED

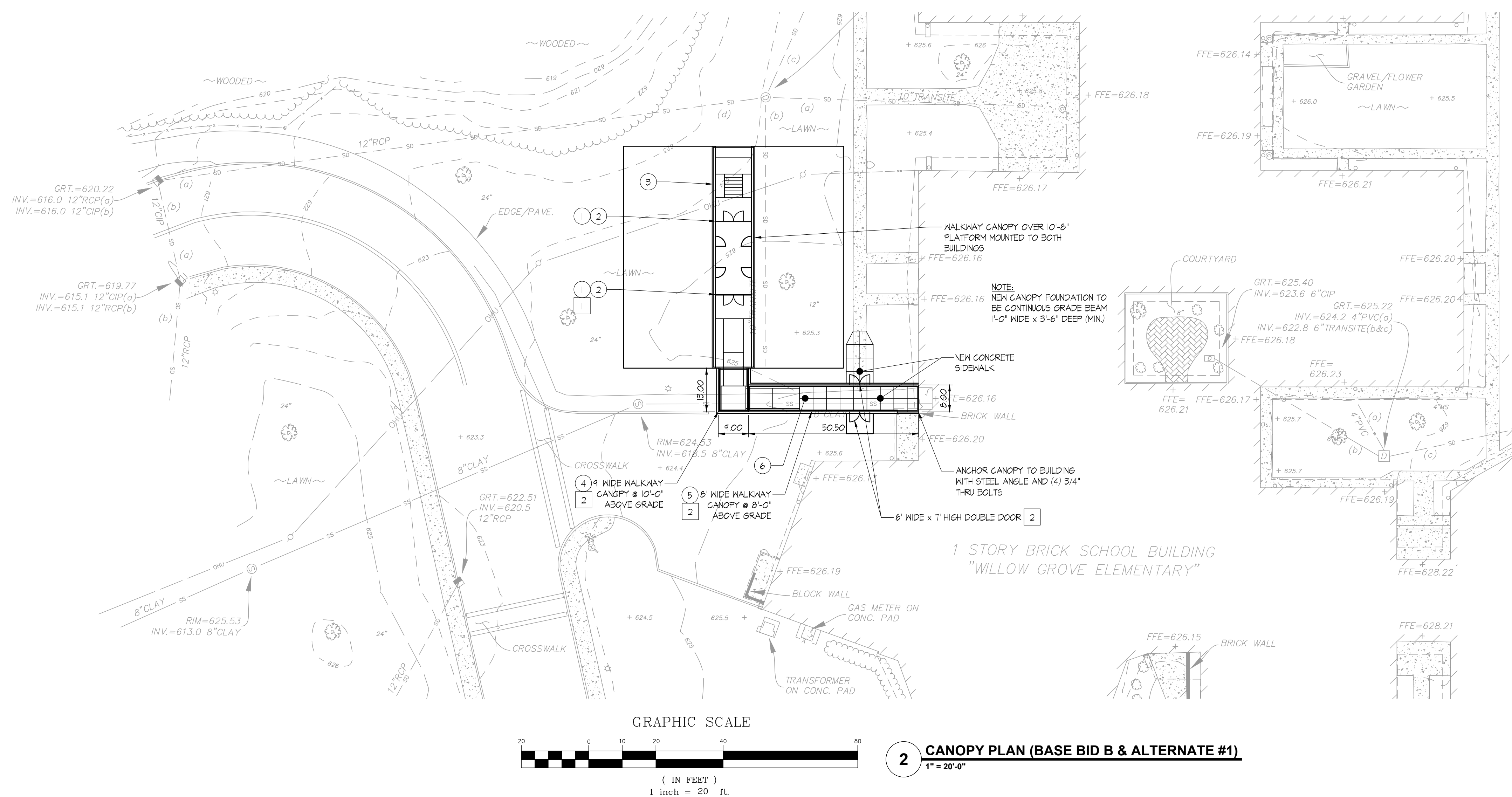
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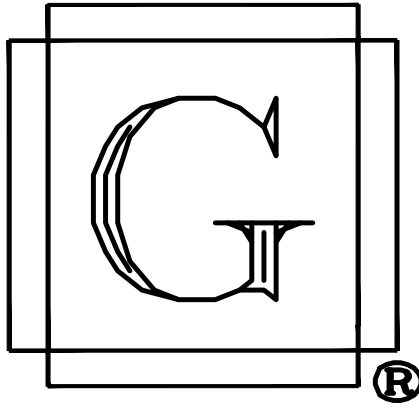
SP-2



- CONSTRUCTION NOTES:**
- REMOVE EXISTING TREE AND ROOTS.
 - SAN CUT AND REMOVE EXISTING ASPHALT AND SIDEWALK IN AREAS SHOWN AS NECESSARY TO ACCOMMODATE NEW CONCRETE GRADE BEAMS AND NEW CONCRETE SIDEWALK.
 - EXCAVATE AS NECESSARY TO INSTALL CONCRETE FOOTINGS FOR NEW TRAILER. SEE SHEET S-1 FOR FOOTING SIZES AND LOCATIONS.
 - SAN CUT ASPHALT AND EXCAVATE TRENCHES AS NECESSARY TO INSTALL NEW UNDERGROUND ELECTRICAL CONDUITS (2) 1" PVC FOR FIRE ALARM AND DATA, WATER PIPING (1" COPPER), AND SANITARY SINKER (4" PVC) UTILITIES. AFTER ALL UTILITIES ARE INSTALLED, BACKFILL ALL TRENCHES, COMPACT SUBGRADE, AND INSTALL NEW STONE AND ASPHALT AS PER ASPHALT SECTION FOR SANITARY SINKER UTILITY. DROP NEW SANITARY LATERAL TO EXISTING SANITARY MAIN AND TIE INTO EXISTING SANITARY MAIN. REPLACE ALL CONCRETE SIDEWALK (AT EXISTING JOINTS), AND CURBING TO MATCH EXISTING. RESTORE LAWN AREA WITH TOP SOIL, FERTILIZER AND MULCH. NEW UNDERGROUND WATER PIPING MUST BE INSTALLED A MINIMUM OF 3'-6" BELOW GRADE AND PROPERLY HEAT TRACED AT ALL LOCATIONS ABOVE 3'-6" BELOW GRADE.
 - TIE IN NEW WATER LINE TO EXISTING WATER UTILITY IN BOILER ROOM WHERE SHOWN. INSTALL NEW SHUT-OFF VALVE AT TIE-IN. TIE ALL NEW FIRE ALARM DEVICES INTO EXISTING FIRE ALARM CONTROL PANEL (FACP) LOCATED IN MAIN OFFICE.
 - INSTALL NEW UNDERGROUND 600 AMP. ELECTRIC SERVICE TO NEW TCUs FROM EXISTING PANEL WITHIN BOILER ROOM. SEE SHEET E-2 FOR CONDUIT AND WIRE SIZES. EXCAVATE TRENCH AS NECESSARY FOR NEW UNDERGROUND SERVICE. BACKFILL TRENCH AND INSTALL NEW ASPHALT.
 - INSTALL NEW CONCRETE SIDEWALKS WHERE SHOWN. INSTALL 1'-0" WIDE BY 3'-6" DEEP CONCRETE GRADE BEAMS ON BOTH SIDES OF NEW SIDEWALK. THE NEW SIDEWALK SHOULD BE SET AT AN ELEVATION OF 626.16 WITH A CROSS SLOPE OF 0.5% ALONG THE FULL LENGTH. THE GRADE BEAMS SHALL BE FLUSH WITH THE NEW SIDEWALK, ONE SET AT 626.16 AND THE OTHER SET AT 626.11 ALONG THE FULL LENGTH. INSTALL NEW 6'-0" X 5'-0" 4" THICK CONCRETE PAD AT BASE OF NEW ALUMINUM STAIRS.
 - INSTALL ADA ACCESSIBLE ASPHALT RAMP 8'-0" WIDE BY APPROXIMATELY 6'-0" LONG WHERE SHOWN.
 - INSTALL NEW TRAILER UNITS, ALUMINUM STAIRS, PLATFORM AND 3/8" LONG ADA ACCESSIBLE RAMP ALL WITH PROPER HANDRAILS AND GUARDRAILS AS PER DRAWINGS AND MANUFACTURER'S SPECIFICATIONS. THE NEW ALUMINUM PLATFORM SHALL HAVE 3'-0" HIGH GUARDRAILS ALONG BOTH ENDS BETWEEN THE TWO (2) TRAILER UNITS, WITH THE EXCEPTION OF AT THE NEW STAIRS AND ADA RAMP.
 - PRIOR TO INSTALLATION OF NEW TRAILER UNITS, TEMPORARILY REMOVE EXISTING OVERHEAD TELEPHONE LINE TO BUILDING. REMOVE ONE (1) EXISTING UTILITY POLE. AFTER INSTALLATION OF TRAILER UNITS IS COMPLETE, INSTALL TWO (2) NEW MASTS TO BE MOUNTED ON THE TRAILER UNITS, ONE ON EITHER SIDE, AND REINSTALL OVERHEAD TELEPHONE LINE. SPLICE AND EXTEND LINE AS NECESSARY.

- CANOPY CONSTRUCTION NOTES:**
- BASE BID B:**
- INSTALL TWO (2) SETS OF NEW WINDOW WALL/DOOR SYSTEMS 4'-0" HIGH BY THE FULL WIDTH BETWEEN THE TRAILER UNITS (APPROXIMATELY 10'-8 1/2"). SYSTEM SHALL BE KANNEER 1600 SS UNITWALL 6" DEEP STOREFRONT SYSTEM (1) & 1 1/4" INFILL OR EQUAL. EACH SYSTEM SHALL HAVE TWO (2) 6'-0" X 1'-0" HINGED FRIGGLASS DOUBLE DOORS AND 1M FRAME, MULLION, CONTINUOUS HINGES, LOCKSET, PUSH BARS W/ ADA HARDWARE ALWAYS ACTIVE FROM INSIDE, KICK PLATES, MOP PLATES, DOOR CLOSURES, SMOKE/SOUNDSEALS, COLOR AND FINISHES BY OWNER.
 - INSTALL 1" CONDUIT STRAPPED TO THE UNDERSIDE OF THE NEW CANOPY FROM THE TWO (2) SETS OF WINDOW WALL/DOOR SYSTEMS TO THE MAIN OFFICE. INSTALL ELECTRIC STRIKES AND DOOR BUZZER SYSTEM TO BE CONTROLLED BY MAIN OFFICE. INSTALL KEYCARD ACCESS POINTS AT BOTH WINDOW WALL/DOOR SYSTEMS TO BE TIED INTO EXISTING SYSTEM.
 - INSTALL UPSIDE INNOVATIONS OVERHEAD CANOPY ABOVE PLATFORM BETWEEN THE TWO TRAILER UNITS. THE CANOPY SHALL BE 66'-0" LONG BY 12'-8" WIDE AND SHALL BE MOUNTED TO BOTH TRAILERS VIA WALL BRACKETS AS PER MANUFACTURER'S SPECIFICATIONS.
 - INSTALL A 9'-0" WIDE BY 13'-0" LONG BRASCO SLIMLINE WALKWAY CANOPY SYSTEM 10'-0" ABOVE GRADE. CANOPY SHALL HAVE A STANDING SEAM ALUMINUM SHED ROOF WITH INTEGRAL GUTTERS, DOWNSPOUTS AND CONCRETE SPLASH PADS. INSTALL CANOPY AS PER MANUFACTURER'S SPECIFICATIONS. CANOPY SHALL BE MOUNTED WITHIN NEW CONCRETE GRADE BEAMS.
 - INSTALL A 8'-0" WIDE BY 50'-6" LONG BRASCO SLIMLINE WALKWAY CANOPY SYSTEM 8'-0" ABOVE GRADE. CANOPY SHALL HAVE A STANDING SEAM ALUMINUM SHED ROOF WITH INTEGRAL GUTTERS, DOWNSPOUTS AND CONCRETE SPLASH PADS. INSTALL CANOPY AS PER MANUFACTURER'S SPECIFICATIONS. CANOPY SHALL BE MOUNTED WITHIN NEW CONCRETE GRADE BEAMS.
 - INSTALL NEW LED SURFACE MOUNTED LIGHT FIXTURES SPACED EVERY 6'-0" O.C. TO THE UNDERSIDE OF BOTH NEW WALKWAY CANOPIES. ALL LIGHTS SHALL BE CONTROLLED VIA TWO (2) THREE WAY EXTERIOR W/P. SWITCHES LOCATED AT THE NEW TRAILER UNITS, AND AT THE SCHOOL'S EXTERIOR DOORS. NEW LIGHTS SHALL BE POWERED BY A DEDICATED CIRCUIT WITHIN ONE OF THE NEW TRAILER ELECTRICAL PANELS.
- ALTERNATE #1:**
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FLOOR PLAN

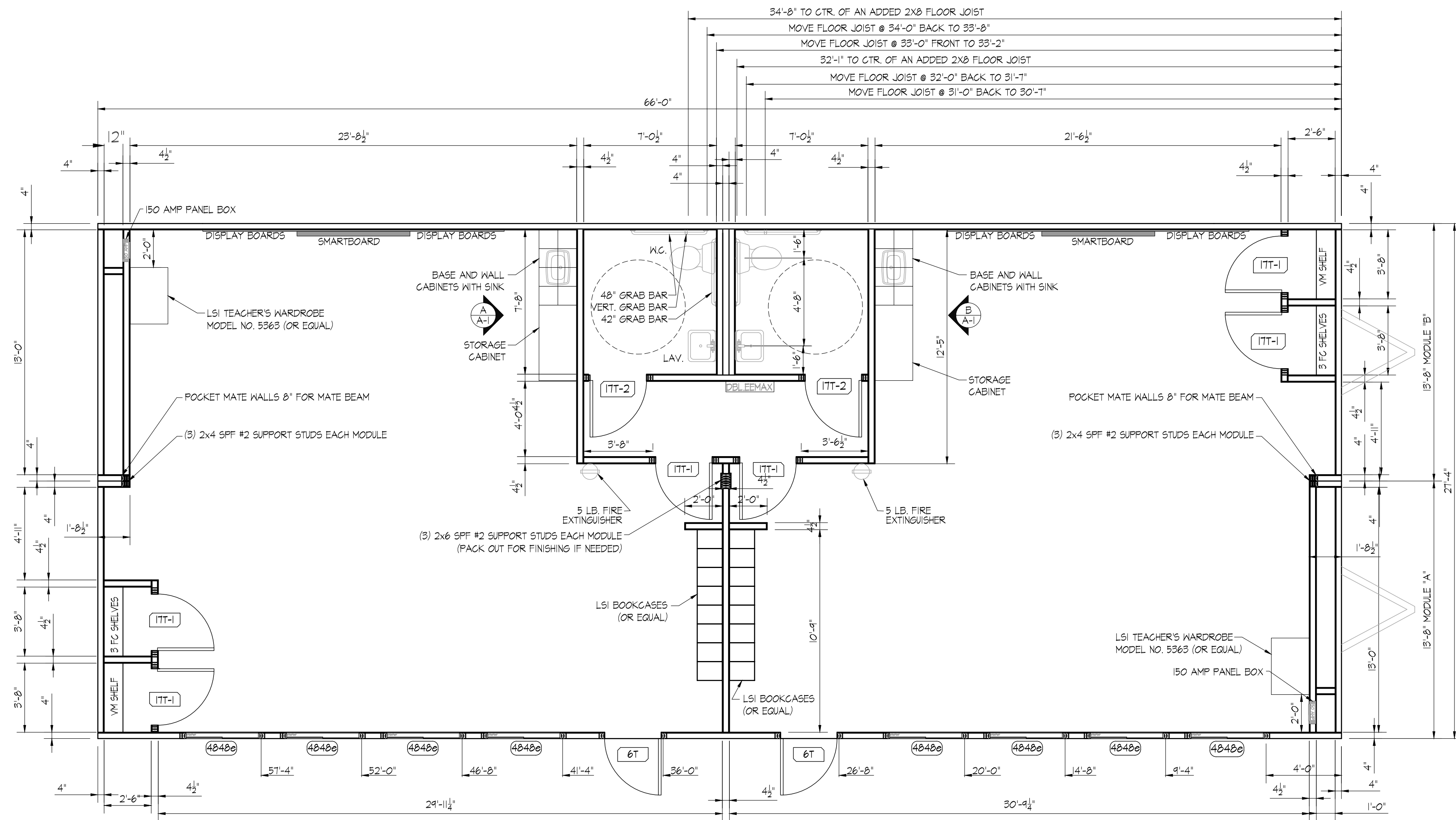
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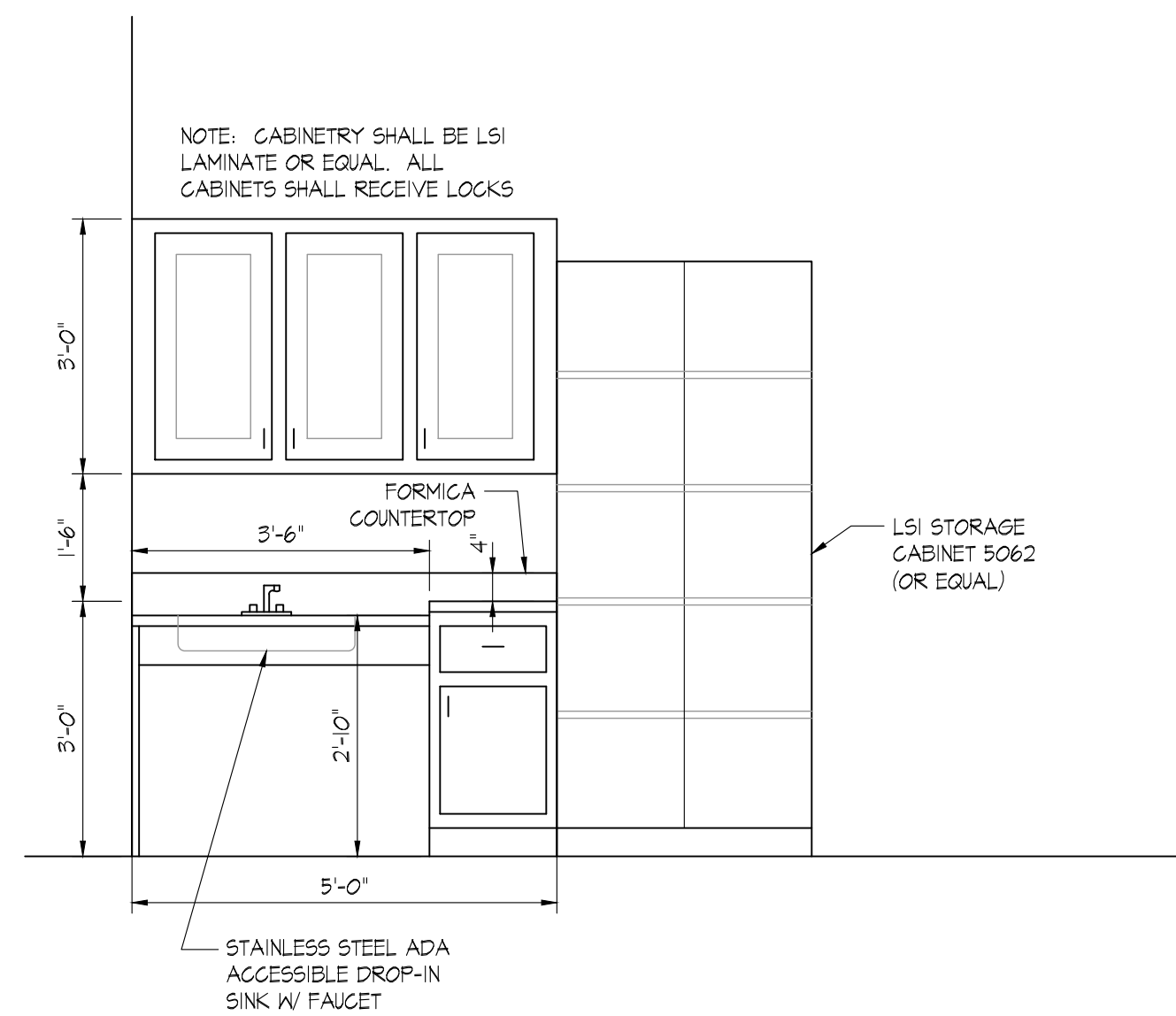
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HackettstownTCUsR1

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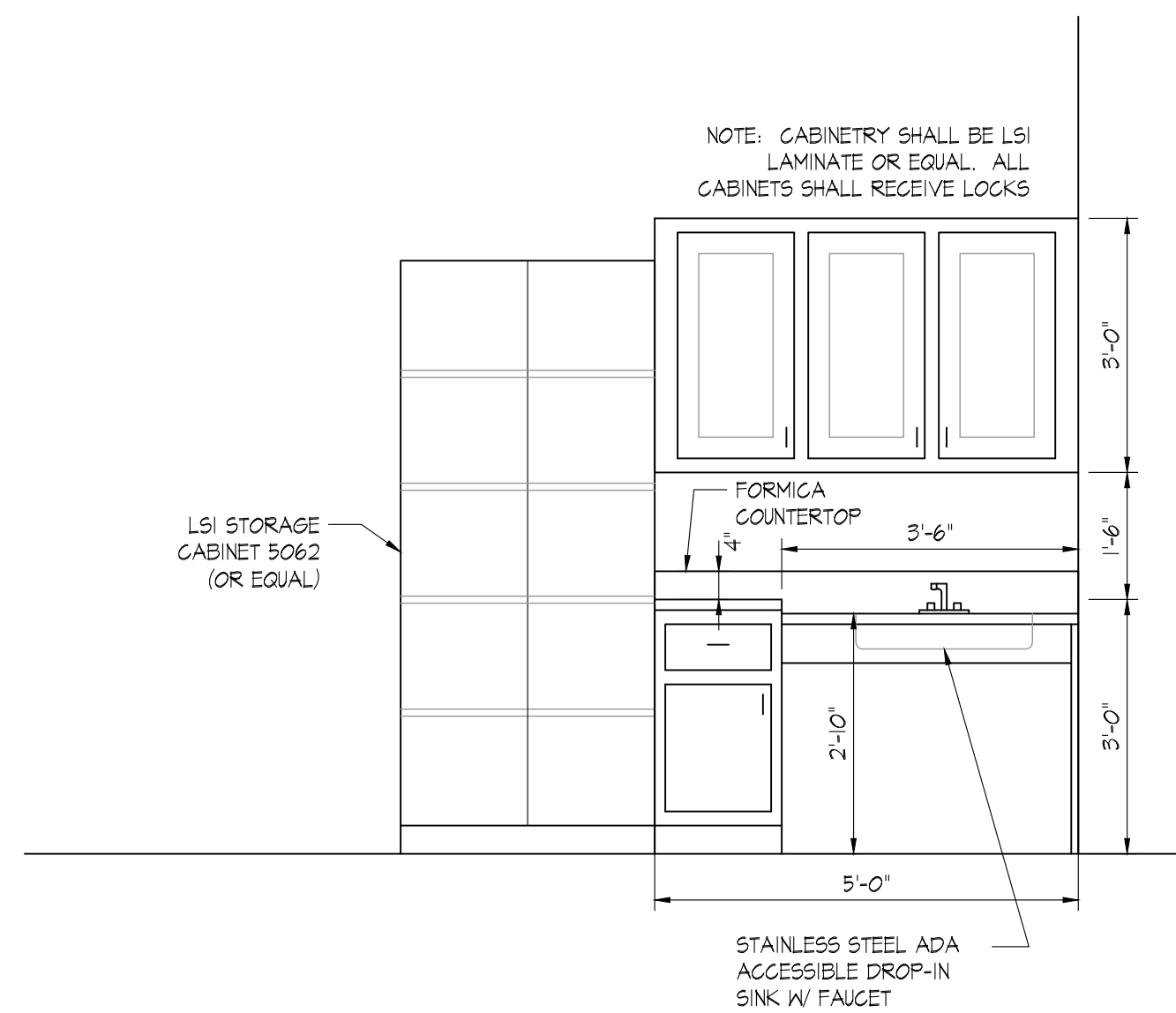
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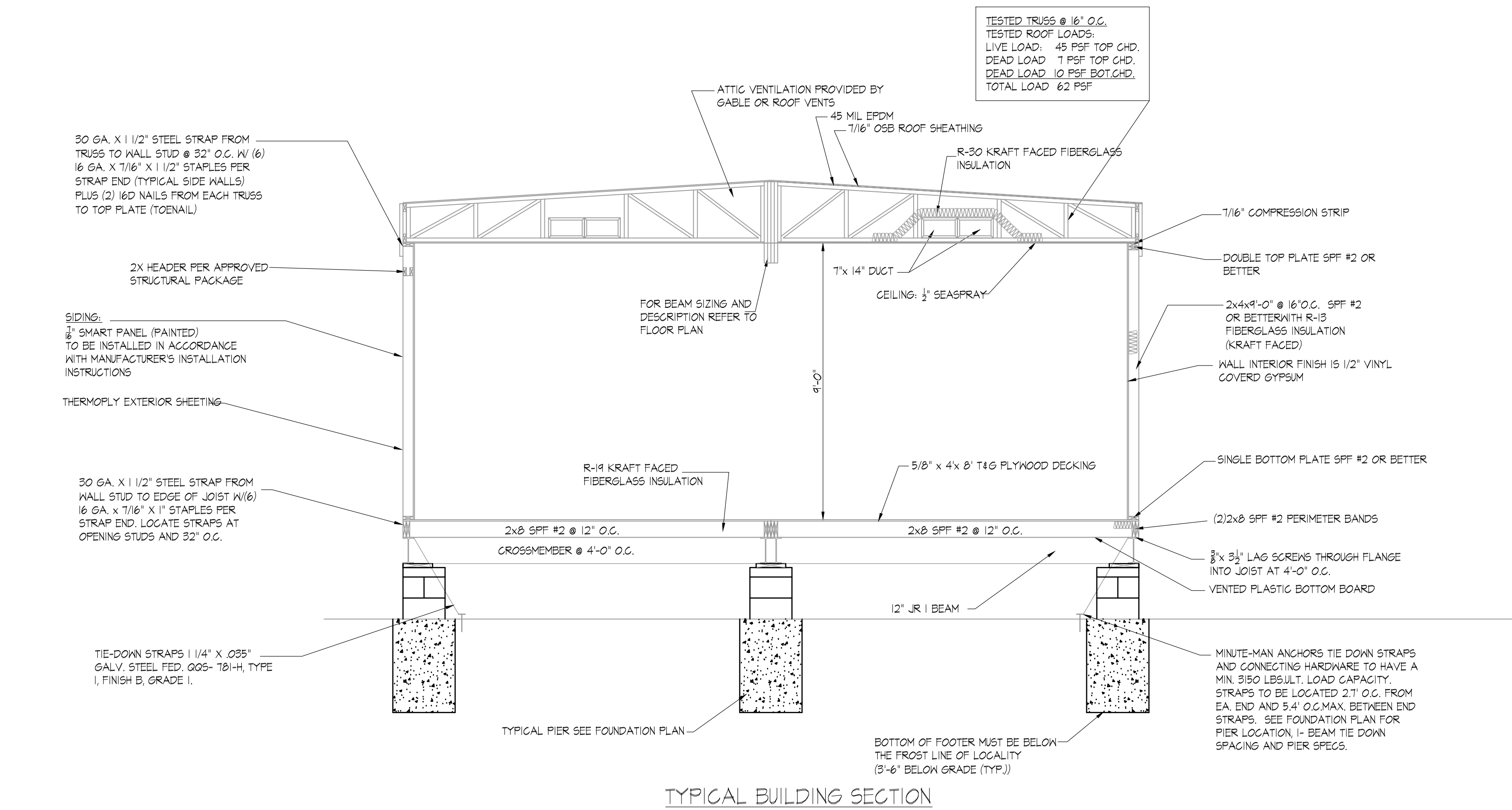
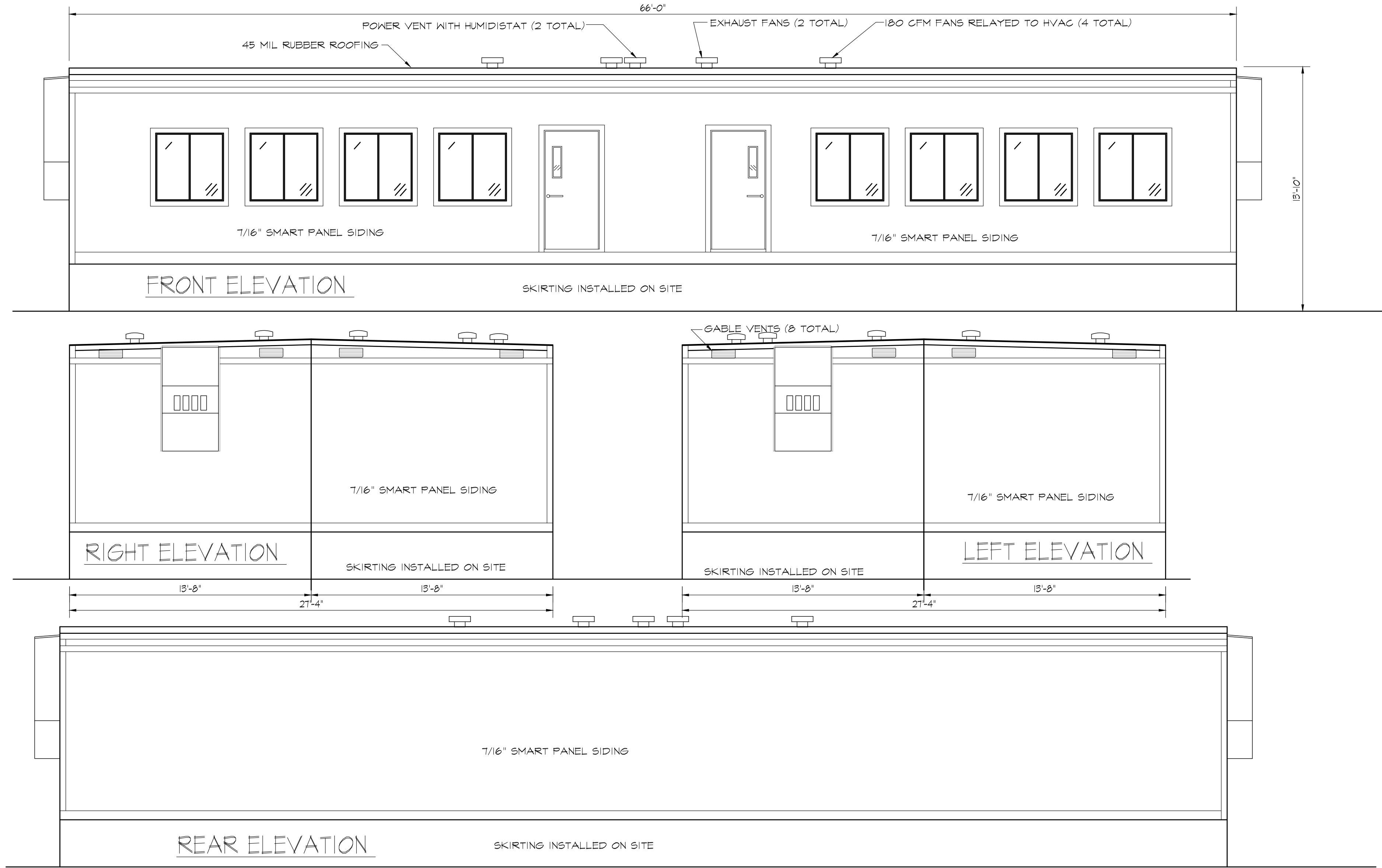
1 FLOOR PLAN
1/4" = 1'-0"



A INTERIOR CABINETRY ELEVATION
1/2" = 1'-0"



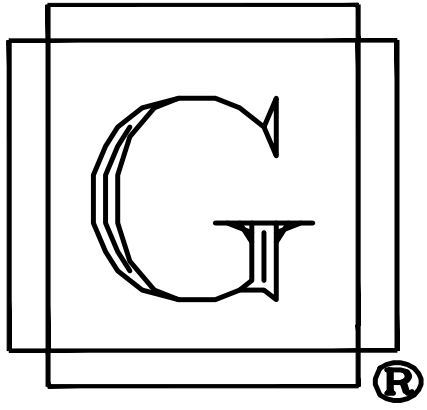
B INTERIOR CABINETRY ELEVATION
1/2" = 1'-0"



SIDEWALL & ENDWALL BRACING INSTALLATION:
STRUCTURAL SHEATHING SHALL CONSIST OF A 4 FOOT MINIMUM WIDTH SHEET EXTENDING CONTINUOUSLY
FROM TOP PLATE TO BOTTOM PLATE WITH ALL SHEATHING EDGES EXTENDING 3/4" MIN. OVER 2"
NOMINAL LUMBER OF THE SAME SIZE AND GRADE AS EXTERIOR WALL FRAMING. BRACING SHALL BE
LOCATED AS CLOSE TO EACH CORNER OF BUILDING AS POSSIBLE.

SIDEWALL & ENDWALL BRACING MATERIAL:
1/8" STRUCTURAL RED THERMO-PLY FASTENED WITH 16 GA. X 1" X 1 1/8" STAPLES 3" O.C. ON THE EDGE @ 6"
O.C. IN THE FIELD, OR LISTED METAL WIND BRACES INSTALLED PER MANUFACTURER'S SPECIFICATIONS.

NOTE:
AT THE HATCHERY HILL ELEMENTARY SCHOOL: THE TRAILER FINISHED FLOOR ELEVATION VARIES
BETWEEN 2.5' AND 9' ABOVE EXISTING GRADE. ALL CONCRETE PIERS MUST HAVE STEEL CROSS
BRACING. ALL TOP OF PIERS MUST BE FORMED, POURED CONCRETE TO BE FLUSH WITH EXTERIOR
WALLS, TO ALLOW SPACE FOR NEW SKIRTING.



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**ELEVATIONS AND
SECTION**

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FILE	HackettstownTCUsR1
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A-2