LOCKER ROOM ALTERATIONS
AT GLOUCESTER CITY HIGH SCHOOL

1300 MARKET STREET
GLOUCESTER CITY, NJ 08030

FOR THE
GLOUCESTER CITY
BOARD OF EDUCATION

NJDOE PROJECT NUMBER: 07-1770-050-XX-XXXX

GENERAL NOTES

1. ALL WORK SHALL CONFORM TO THE LATEST ADOPTED INTERNATIONAL BUILDING CODE - NEW JERSEY EDITION AND ALL OTHER APPLICABLE CODES, ORDINANCES, ETC. FOR NEW JERSEY STATE AND THE LOCAL AUTHORITY HAVING JURISDICTION.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR VISITING THE SITE AND FAMILIARIZING THEMSELF WITH THE EXISTING CONDITIONS AND SCOPE OF THE WORK PRIOR TO SUBMITTING BIDS AND COMMENCING WORK.
3. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL SAFE WORKING CONDITIONS AND SHALL OBSERVE ALL SAFETY REQUIREMENTS ESTABLISHED BY JURISDICTIONAL AGENCIES AND THE OWNER. WHERE CONFLICTS EXIST, THE MORE STRINGENT REQUIREMENT SHALL APPLY. CARE SHALL BE EXERCISED TO AVOID ENDANGERING PERSONNEL OR STRUCTURES.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION METHODS, PROCEDURES AND JOB SITE CONDITIONS INCLUDING SAFETY. CONSTRUCTION SHALL BE PERFORMED IN SUCH A MANNER TO PROTECT WORKPEOPLE, OCCUPANTS AND THE PUBLIC FROM INJURY AND ADJOINING PROPERTY SHALL BE PROTECTED FROM DAMAGE BY USE OF SCAFFOLDING, UNDERPINNING OR OTHER APPROVED METHOD. THE CONTRACTOR SHALL REPAIR ANY AND ALL DAMAGE CAUSED DURING OR RESULTING FROM THEIR OPERATIONS IN KIND TO THE SATISFACTION OF THE OWNER AT NO ADDITIONAL COST TO THE OWNER.
5. THE CONTRACTOR SHALL MAINTAIN THE JOB SITE IN A CLEAN, DEBRIS FREE CONDITION. THE DUST RESULTING FROM REMOVALS SHALL BE CONTROLLED SO AS TO PREVENT ITS SPREAD TO OCCUPIED PORTIONS OF THE BUILDING AND TO AVOID CREATION OF A NUISANCE IN THE SURROUNDING AREA.
6. CONTRACTOR SHALL SECURE ALL REQUIRED PERMITS, APPROVALS, ETC. PRIOR TO COMMENCING WORK AND SHALL SECURE CERTIFICATE OF OCCUPANCY UPON COMPLETION OF WORK.
7. CONTRACTOR SHALL BE RESPONSIBLE TO DISPOSE OF ALL DEMOLISHED MATERIAL OFF SITE IN AN APPROVED MANNER. THE OWNER SHALL BE CONSULTED PRIOR TO DISPOSAL OF ANY SALVAGED OR EXCESS MATERIALS AT THE COMPLETION OF THE PROJECT.
8. UPON COMPLETION OF WORK, ALL EXCESS MATERIAL, DEBRIS, ETC. SHALL BE REMOVED AND THE WORK AREA SHALL BE LEFT CLEAN TO THE OWNER'S SATISFACTION.
9. ALL WORK SHALL BE SCHEDULED IN COMPLIANCE WITH THE OWNER'S REQUIREMENTS FOR THE USE OF THE EXISTING FACILITY.
10. CONTRACTOR SHALL FURNISH ALL EQUIPMENT THAT MAY BE REQUIRED TO PERFORM THE WORK INDICATED IN A SAFE AND ORDERLY MANNER.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE RELOCATION AND TEMPORARY SUPPORT OF ANY UTILITIES ENCOUNTERED DURING THE COURSE OF HIS WORK AND TO ENSURE THE OWNER'S FACILITY TO BE OPERATIONAL.
12. THE CONTRACTOR SHALL REVIEW DRAWINGS AND FIELD VERIFY ALL DIMENSIONS, CONDITIONS AND ELEVATIONS PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL REPORT ANY DISCREPANCIES AND ADDRESS ALL QUESTIONS TO ARCHITECT PRIOR TO COMMENCING WORK.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CUTTING, PATCHING, FILLING AND CLEANING UPON COMPLETION OF WORK.
14. THE CONTRACTOR SHALL NOT SCALE DRAWINGS FOR DIMENSIONS. ALL WRITTEN OR DIMENSIONED INFORMATION TAKES PRECEDENCE OVER THE DRAWING.
15. THE CONTRACTOR SHALL SUBMIT, WHERE REQUIRED, SHOP DRAWINGS TO THE ARCHITECT FOR APPROVAL PRIOR TO THE START OF FABRICATION OF THOSE ITEMS. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
16. THE CONTRACTOR SHALL PROVIDE THE OWNER AND ARCHITECT WITH CERTIFICATES OF INSURANCE PRIOR TO STARTING THE WORK.
17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SHORING AND BRACING OF EXISTING STRUCTURES AS NEEDED TO COMPLETE THE NEW WORK.
18. ALL MANUFACTURER'S MATERIALS, COMPONENTS, FASTENERS, ASSEMBLIES, ETC. SHALL BE HANDLED AND INSTALLED IN ACCORDANCE TO WITH MANUFACTURERS INSTRUCTIONS AND RECOMMENDATIONS. WHERE BRAND NAMES AND MANUFACTURED PRODUCTS ARE CALLED FOR, APPROVED EQUALS WHICH MEET APPLICABLE STANDARDS AND SPECIFICATIONS MAY BE SUBSTITUTED WITH WRITTEN PERMISSION OF THE ARCHITECT AND THE OWNER. WHENEVER BRAND NAMES OR SPECIFIC PRODUCT SYSTEMS ARE INDICATED IT SHALL BE CLEARLY UNDERSTOOD THAT SUCH IDENTIFICATION IS FOR THE PURPOSE OF ILLUSTRATING THE TYPE OF PRODUCT AND DEGREE OF QUALITY DESIRED. SUCH IDENTIFICATION IN NO WAY PRECLUDES THE CONTRACTOR FROM USING PRODUCTS OF OTHER MANUFACTURERS WHICH CAN BE SHOWN IN ADVANCE TO BE OF LIKE AND OF EQUAL QUALITY.
19. ALL CHANGES SHALL BE REQUESTED IN WRITING AND MAY ONLY BE APPROVED IN WRITING BY THE ARCHITECT AND THE OWNER PRIOR TO ANY CHANGES BEING MADE.
20. THE ARCHITECT HAS THE RIGHT TO REJECT ANY PORTION OF WORK THAT IS POORLY INSTALLED, DOES NOT MEET INDUSTRY STANDARD, UNAUTHORIZED, OR WORK DONE CONTRARY TO THE INTENT OF THE CONTRACT DOCUMENTS. SUCH WORK SHALL BE REPLACED, REPAIRED OR REMOVED AT THE CONTRACTOR'S EXPENSE.
21. THE CONTRACTOR SHALL GUARANTEE ALL HIS WORK AND THE WORK OF THEIR SUBCONTRACTORS FOR A PERIOD AS INDICATED IN THE CONTRACT SPECIFICATIONS AFTER RECEIVING FINAL ACCEPTANCE AND DO ALL REPAIR WORK AND REPLACEMENT AS NECESSARY DURING THAT PERIOD AT THE CONTRACTOR'S EXPENSE.
22. IN NO EVENT SHALL STRUCTURAL MEMBERS BE CUT OR DRILLED WITHOUT THE WRITTEN APPROVAL OF A LICENSED STRUCTURAL ENGINEER.
23. THE CONTRACTOR SHALL PROVIDE SAFE AND SANITARY CONDITIONS WHERE DEMOLITION AND WRECKING OPERATIONS ARE BEING CARRIED ON. WORK SHALL BE EXECUTED IN SUCH A MANNER THAT HAZARD FROM FIRE, POSSIBILITY OF INJURY, DANGER TO HEALTH AND CONDITIONS WHICH MAY CONSTITUTE A PUBLIC NUISANCE SHALL BE MINIMIZED.

APPLICABLE CODES

USE GROUP/OCCUPANCY
USE GROUP "E" (EDUCATION)

APPLICABLE CODES
THE WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE CODE REQUIREMENTS AND OTHER REGULATORY AGENCIES INCLUDING, BUT NOT LIMITED TO:

BUILDING SUBCODE (NJAC 5:23-3.14) **INTERNATIONAL BUILDING CODE/2024, NJ ED**
PLUMBING SUBCODE (NJAC 5:23-3.15) **NATIONAL STANDARD PLUMBING CODE/2024, NJ ED**
ELECTRICAL SUBCODE (NJAC 5:23-3.16) **NATIONAL ELECTRICAL CODE (NFPA 70)/2023**
ENERGY SUBCODE (NJAC 5:23-3.18) **ASHRAE 90.1-2022**
MECHANICAL SUBCODE (NJAC 5:23-3.20) **INTERNATIONAL MECHANICAL CODE/2024**
FUEL GAS SUBCODE (NJAC 5:23-3.22) **INTERNATIONAL FUEL GAS CODE/2024**
REHABILITATION SUBCODE (NJAC 5:23-6) **NJUCC, SUBCHAPTER 6**
BARRIER FREE SUBCODE (CHAPTER 11 OF IBC/2021 & NJAC 5:23-7) **ICC A117.1-2017**
NJ UNIFORM CONSTRUCTION CODE **TITLE 5, CHAPTER 23, SUB-CHAPTERS 1-12**

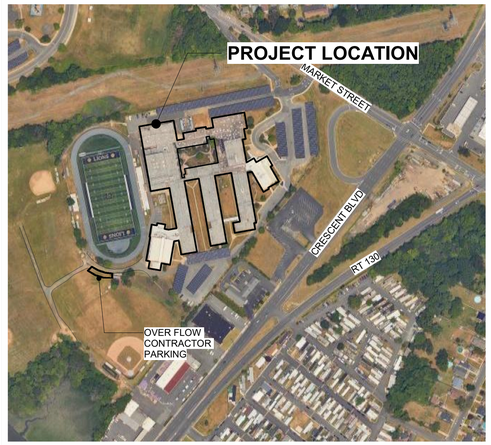
NOTES
THE ABOVE CODES AND REGULATIONS REFER TO THE LATEST EDITION OR REVISION ENFORCED ON THE DATE OF THE CONTRACT DOCUMENTS, UNLESS OTHERWISE NOTED. NOTHING ON THE DRAWINGS IS TO BE CONSTRUED AS REQUIRING OR PERMITTING WORK THAT IS CONTRARY TO THE LISTED CODES AND REGULATIONS, OR ANY OTHER REGIONAL, STATE, OR FEDERAL REGULATIONS.

UNLESS OTHERWISE NOTED SPECIFIC REFERENCES TO CODES, REGULATIONS, STANDARDS, MANUFACTURER'S INSTRUCTIONS, OR REQUIREMENTS OF REGULATORY AGENCIES, WHEN USED TO SPECIFY REQUIREMENTS FOR MATERIALS OF DESIGN ELEMENTS SHALL MEAN THE LATEST EDITION OF EACH IN EFFECT AT THE DATE OF SUBMISSION OF BIDS, OR THE DATE OF THE CHANGE OF ORDER, OR FIELD DIRECTIVE AS APPLICABLE.

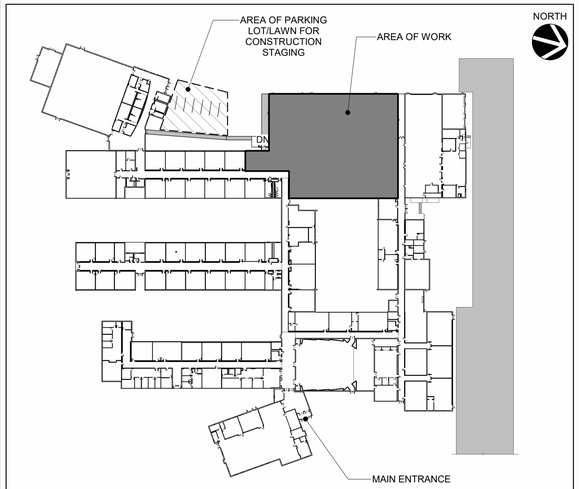
ABBREVIATION

A/C	AIR CONDITIONING
ACT	ACOUSTICAL CEILING TILE
ADJ	ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
ALUM	ALUMINUM
AMP	AMPERE
ARCH	ARCHITECT
BLDG	BUILDING
BOH	BACK OF HOUSE
BOD	BOTTOM OF DECK
CAB	CABINET
CJ	CONTROL JOINT
CL	CENTER LINE
CLG	CEILING
CM	CONSTRUCTION MANAGER
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONT	CONTINUED
CT	CERAMIC TILE
CTR	CENTER
DEG	DEGREE
DET	DETAIL
DIA	DIAMETER
DIM	DIMENSION
DN	DOWN
(E)	EXISTING
EA	EACH
EJ	EXPANSION JOINT
EL	ELEVATION
EQ	EQUAL
ETR	EXISTING TO REMAIN
EXIST	EXISTING
EXT	EXTERIOR
FEC	FIRE EXTINGUISHER CABINET
FF&E	FURNITURE, FIXTURE, AND EQUIPMENT
FLR	FLOOR
FT	FOOT/FEET
GA	GAUGE
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GWB	GYPSUM WALLBOARD
GYP	GYPSUM BOARD
HC	HOLLOW CORE
HDW	HARDWARE
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HR	HOUR
HT	HEIGHT
HVAC	HEATING, VENTILATING, & AIR CONDITIONING
ID	INSIDE DIAMETER
INSUL	INSULATION
LL	LANDLORD
MAX	MAXIMUM
MEP	MECHANICAL, ELECTRICAL, & PLUMBING
MFR	MANUFACTURER
MIN	MINIMUM
MO	MASONRY OPENING
MTL	METAL
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OA	OVERALL
OC	ON CENTER
OD	OUTSIDE DIAMETER
OH	OPPOSITE HAND
PLAM	PLASTIC LAMINATE
PM	PROJECT MANAGER
POS	POINT OF SALE
PT	PRESSURE TREATED
PTD	PAINTED
R	RADIUS
REF	REFERENCE
REQD	REQUIRED
REV	REVISION
RO	ROUGH OPENING
SC	SOLID CORE
SF	SQUARE FEET
SIM	SIMILAR
SPEC	SPECIFICATION
SQ	SQUARE
SS	STAINLESS STEEL
STG	STORAGE
STL	STEEL
TEMP	TEMPORARY
TOS	TOP OF STEEL
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
UON	UNLESS OTHERWISE NOTED
VCB	VINYL COVE BASE
VCT	VINYL COMPOSITE TILE
VERT	VERTICAL
VIF	VERIFY IN FIELD
VT	VINYL TILE
WD	WOOD
WH	WATER HEATER
W/	WITH

LOCATION MAP



KEY PLAN



DRAWING INDEX

SHEET NO.	TITLE
TITLE SHEET	
T0.01	TITLE SHEET
T0.02	ACCESSIBILITY & NOTES
ARCHITECTURAL	
A0.01	EGRESS PLAN
A1.01	DEMOLITION FLOOR PLAN
A1.02	REFLECTED CEILING DEMO PLAN
A1.03	EXISTING PHOTOS
A2.01	PROPOSED FLOOR PLAN
A4.00	WALL PARTITIONS & DETAILS
A5.01	REFLECTED CEILING PLAN
A6.01	DOOR SCHEDULE, DOOR TYPES & DETAILS
A7.01	ENLARGED PLANS AND ELEVATIONS
A9.01	FINISH PLANS & SCHEDULE
MECHANICAL	
M0.01	MECHANICAL SYMBOLS & ABBREVIATIONS
M1.01	MECHANICAL DEMOLITION PLANS
M2.01	MECHANICAL NEW WORK PLANS
M6.01	MECHANICAL SCHEDULES & DETAILS
PLUMBING	
P1.01	PLUMBING DEMOLITION PLANS - SAN/VENT/GAS
P1.02	PLUMBING DEMOLITION PLANS - DOMESTIC WATER
P2.01	PLUMBING PLANS & NOTES
P4.01	ENLARGED PLUMBING PLANS - SANITARY
P4.02	ENLARGED PLUMBING PLANS - DOMESTIC
P5.01	PLUMBING RISERS - SANITARY
P5.02	PLUMBING RISERS - DOMESTIC
P6.01	PLUMBING SCHEDULE & DETAILS
ELECTRICAL	
E0.01	ELECTRICAL LEGEND
E0.02	ELECTRICAL GENERAL NOTES
E1.01	ELECTRICAL PARTIAL DEMOLITION FLOOR PLAN
E1.02	ELECTRICAL PARTIAL DEMOLITION REFLECTED CEILING PLAN
E2.01	ELECTRICAL PARTIAL POWER PLAN
E4.01	FIRE ALARM PARTIAL PLANS
E5.01	ELECTRICAL PARTIAL LIGHTING PLAN
E5.51	ELECTRICAL LIGHTING NOTES & DETAILS
E6.01	ELECTRICAL ONE-LINE & FA RISER
E6.02	ELECTRICAL PANEL SCHEDULES I
E6.03	ELECTRICAL PANEL SCHEDULES II
E7.01	ELECTRICAL DETAILS

PROJECT DESCRIPTION

BASE BID:

ALTERATIONS TO EXISTING GIRLS & BOYS LOCKER ROOMS TO PROVIDE DEDICATED PHYSICAL EDUCATION LOCKER ROOM AREAS & TEAM LOCKER ROOMS AREAS, INCLUDING TOILET ROOM ALTERATIONS & UPGRADES, CONSOLIDATION AND RELOCATION OF SHOWER AREAS, AND NEW OFFICE & STORAGE ROOMS.

ALTERNATE BID:

ALTERATION AND CONVERSION OF EXISTING TRAINER'S ROOM TO OFFICE USE FOR DISTRICT ADMINISTRATION.

ALTERATIONS TO EXISTING C-1 ROOM TO CONVERT TO NEW TRAINER'S ROOM INCLUSIVE OF NEW EXTERIOR DOOR AND ADA RAMP TO EXTERIOR.

ALL RENOVATIONS, ALTERATIONS, AND MODIFICATIONS ARE MADE TO BETTER ADDRESS THE FUNCTIONAL AND OPERATIONAL NEEDS OF THE SCHOOL WHILE PROVIDING MODERN AND UPDATED AMENITIES TO STUDENTS & STAFF.

SYMBOLS AND LEGEND

BUILDING SECTION — DWG. NO. 2 / SHEET NO. A4.01
BUILDING ELEVATION — DWG. NO. 2 / SHEET NO. A3.01
DETAIL — DETAIL NO. 2 / SHEET NO. A6.01
INTERIOR ELEVATIONS — DWG. NO. 1 (2, 3, 4) / SHEET NO. A7.01
REVISION CLOUD AND TAG — 1
DRAWING TITLE — DWG. TITLE; DWG. NO. 2 / SHEET NO. A6.01 **FLOOR PLAN**; 1/8" = 1'-0"; DWG. SCALE

DOOR TAG — D101
WINDOW TAG — W1
EQUIPMENT TAG — EQ-1
PLUMBING FIXTURE TAG — P-1
CONSTRUCTION KEY NOTE — 1
DEMOLITION KEY NOTE — 1
WALL TYPE — 1
ROOM TAG — BATHROOM 101
BATHROOM ACCESSORIES TAG — A

NJ Certificate of Authorization	
Eng'r. Nos.	24GA27937500
Arch. Nos.	21AC00012400
Date	11/03/26
Checked	JMP
Drawn	RS

JEFFREY POTTER, R.A. — Title REGISTERED ARCHITECT — License No. 21AI02015400

Date	Description
11/03/26	ISSUE FOR BID

State Project #: 07-1770-050-XX-XXXX

LAN ASSOCIATES
Engineering, Planning, Architecture, Surveying Inc.
1018 Laurel Oak Road Ste 11, Voorhees, NJ 08043 | t. 856-375-2701 | f. 201-447-1233

TITLE SHEET
HIGH SCHOOL LOCKER ROOM INTERIOR ALTERATIONS
LOCKER ROOM ALTERATIONS
1300 MARKET STREET, GLOUCESTER CITY, NJ 08033

Job No. 2.20457.20
File No.

T0.01

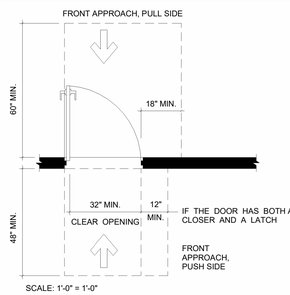
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ACCESSIBLE CLEARANCES:

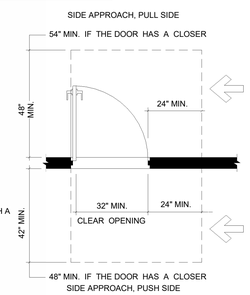
ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES ICC A117.1-2017 NATIONAL STANDARD

APPLICATION: THE A117.1-2009 APPLIES TO THE ENTIRE BUILDING AND SITE, INCLUDING, BUT NOT LIMITED TO ALL CLASSROOM, SUPPORT, COMMON SPACES, AND EXTERIOR ACCESSIBILITY WITHIN THE SITE BOUNDARY. SEE CIVIL ENGINEERING AND LANDSCAPE ARCHITECTURE DRAWINGS FOR ALL EXTERIOR SIDEWALK AND PARKING LOT RELATED COMPLIANCE INFORMATION

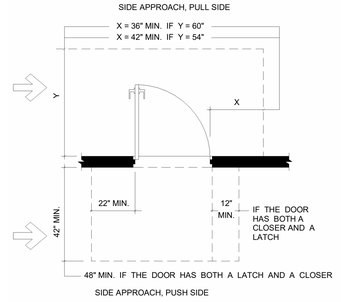
ANSI A117.1 - CHAPTER 4: ACCESSIBLE ROUTES & CHAPTER 3 BUILDING BLOCKS



A DOOR MANEUVER. CLEARANCES
N.T.S.



B DOOR MANEUVER. CLEARANCES
N.T.S.



C DOOR MANEUVER. CLEARANCES
N.T.S.

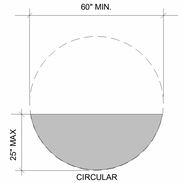


FIGURE 304.3.1.2
SIZE OF TURNING SPACE-
EXISTING BUILDINGS
(ICC/ANSI A117.1-2017)

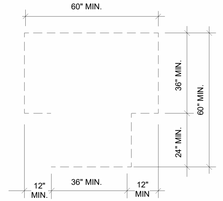


FIGURE 304.3.2.2
T-SHPAED TURNING SPACE-
EXISTING BUILDINGS
(ICC/ANSI A117.1-2017)

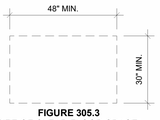
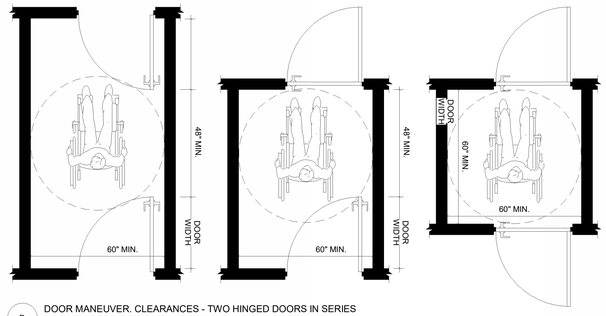


FIGURE 305.3
SIZE OF CLEAR FLOOR SPACE-
EXISTING BUILDINGS
(ICC/ANSI A117.1-2017)

ADA - TURNING SPACES
N.T.S.

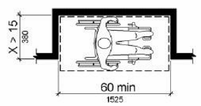
ANSI A117.1 - CHAPTER 3: BUILDING BLOCKS



D DOOR MANEUVER. CLEARANCES - TWO HINGED DOORS IN SERIES
N.T.S.

305.7.2 PARALLEL APPROACH. ALCOVES SHALL BE 60 INCHES (1525 MM) WIDE MINIMUM WHERE THE DEPTH EXCEEDS 15 INCHES (380 MM).

FIGURE 305.7.2



MANEUVERING CLEARANCE IN AN ALCOVE, PARALLEL APPROACH

ADA STANDARDS FOR ACCESSIBLE DESIGN 2010

APPLICATION: THE ADA 2010 STANDARD APPLIES TO THE ENTIRE BUILDING AND SITE, INCLUDING, BUT NOT LIMITED TO ALL CLASSROOM, SUPPORT, COMMON SPACES, AND EXTERIOR ACCESSIBILITY WITHIN THE SITE BOUNDARY. SEE CIVIL ENGINEERING AND LANDSCAPE ARCHITECTURE DRAWINGS FOR ALL EXTERIOR SIDEWALK AND PARKING LOT RELATED COMPLIANCE INFORMATION

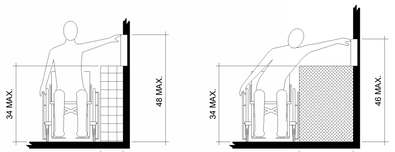
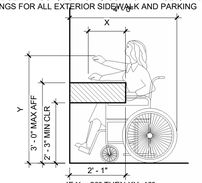
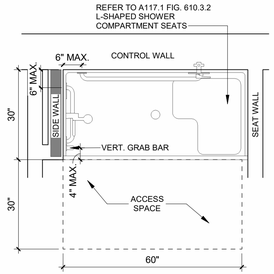


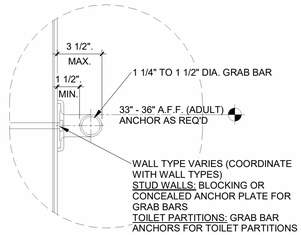
FIGURE 308.3.2
OBSTRUCTED HIGH
SIDE REACH



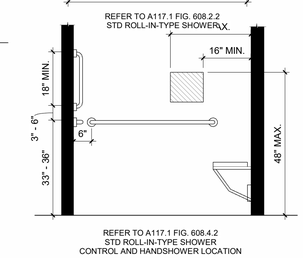
IF X < 20" THEN KY=48"
IF X > 20" THEN Y=44"

MAXIMUM REACH FORWARD OVER OBSTRUCTION

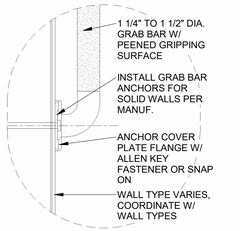




SECTION



REFER TO A117.1 FIG. 608.4.2
STD ROLL-IN-TYPE SHOWER
CONTROL AND HANDSHOWER LOCATION

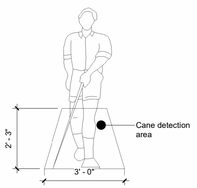


PLAN

NOTES:
1. CONTRACTOR SHALL SECURELY MOUNT GRAB BARS TO WALL W/ S.S. FASTENERS TO SUPPORT 250 LB. MIN. LOAD, TYP.

2. INSTALL GRAB BAR ANCHORS, BLOCKING AND/OR CONCEALED ANCHOR PLATES AS REQ'D FOR STUD, MASONRY, SOLID WALLS AND TOILET PARTITIONS, TYP.

3 T0.02 ACCESSIBLE SIDE REACH1
3/8" = 1'-0"



4 T0.02 ACCESSIBLE FORWARD REACH1
3/8" = 1'-0"

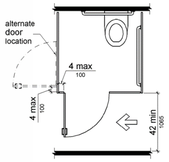


FIGURE 604.9.3.1:WHEELCHAIR
ACCESSIBLE TOILET COMPARTMENT
DOORS

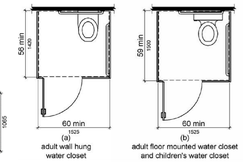


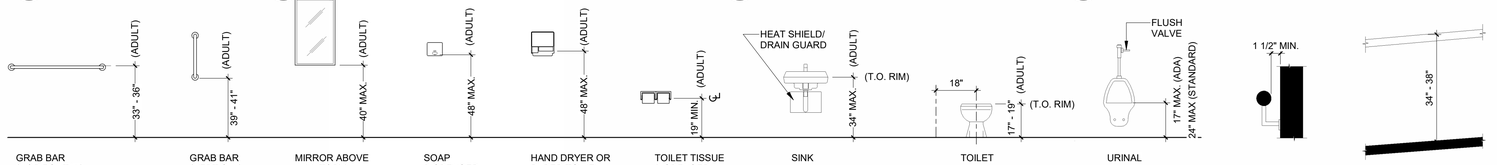
FIGURE 604.9.2 (A & B)
SIZE OF WHEELCHAIR ACCESSIBLE TOILET
COMPARTMENT

5 T0.02 CANE DETECTION
3/8" = 1'-0"

6 T0.02 ACCESSIBLE PUBLIC TOILET STALL
3/8" = 1'-0"

7 T0.02 ACCESSIBLE SHOWER DETAILS
1/2" = 1'-0"

8 T0.02 TYPICAL GRAB BAR DETAIL
12" = 1'-0"



GRAB BAR (HORIZONTAL) | GRAB BAR (VERTICAL) | MIRROR ABOVE LAVATORY | SOAP DISPENSER | HAND DRYER OR PAPER TOWEL DISPENSER | TOILET TISSUE DISPENSER | SINK | TOILET | URINAL

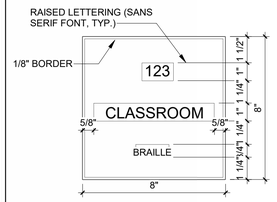
9 T0.02 ADA - MOUNTING HEIGHTS - ADULT1
N.T.S.

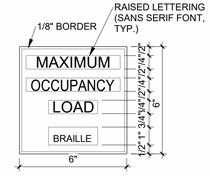
13 T0.02 ADA HANDRAIL DETAIL
1" = 1'-0"

INTERIOR SIGNAGE

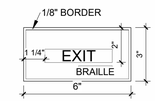
GENERAL INTERIOR SIGNAGE NOTE:

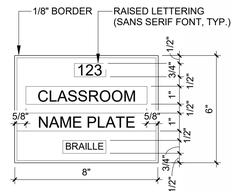
1. ELECTRICAL DRAWINGS FOR ALL ELECTRICAL EGRESS EXIT SIGN LOCATIONS
2. CIVIL DRAWINGS FOR ALL EXTERIOR PARKING AND SIGN LOCATIONS AS APPLICABLE
3. SIGNAGE SHALL BE SURFACE MOUNTED, MANUFACTURER STANDARD THICKNESS, ACRYLIC OR PHENOLIC PLATE WITH SURFACE APPLIED GRAPHICS. TACTILE SIGNS TO CONTAIN BOTH RAISED CHARACTERS & BRAILLE.
4. TACTILE SIGNS RAISED CHARACTER HEIGHT TO BE 5/8" MIN & BE SANS SERIF.TEXT AND TYPEFACE SHALL BE ACCESSIBLE RAISED CHARACTERS AND BRAILLE, AND WITH VARIABLE CONTENT AS SCHEDULED.
5. BACKGROUND AND LETTERING COLORS TO BE SELECTED BY ARCHITECT.
6. TACTILE SIGNS BRAILLE TO BE GRADE 2 & COMPLY WITH TABLE 703.4.3 IN 2017 ANSI
7. TACTILE SIGNS BRAILLE TO BE 3/8" MIN AWAY FROM OTHER RAISED CHARACTERS, BORDERS, & DECORATIVE ELEMENTS
8. TACTILE SIGNS TO BE MOUNTED 54" (48" MIN) FROM FINISH FLOOR TO BOTTOM OF TACTILE LETTERING.
9. TACTILE SIGNS TO BE MOUNTED 54" (48" MIN) FROM FINISH FLOOR TO BOTTOM OF TACTILE LETTERING.
10. TACTILE SIGNS CHARACTERS/PICTOGRAMS/SYMBOLS OF ACCESSIBILITY & BACKGROUND TO BE NON-GLARE.
11. TACTILE SIGNS TO CONTAIN EITHER LIGHT CHARACTERS/PICTOGRAMS/SYMBOLS OF ACCESSIBILITY ON A DARK BACKGROUND, OR DARK CHARACTERS/PICTOGRAMS/SYMBOLS OF ACCESSIBILITY ON A LIGHT BACKGROUND.
12. TACTILE SIGNS TO BE LOCATED SO THAT A CLEAR FLOOR AREA OF 18" BY 18" MIN. CENTERED ON THE RAISED CHARACTERS IS PROVIDED BEYOND THE ARC OF ANY DOOR SWING. WHERE THERE IS NO WALL SPACE ON LATCH SIDE OF DOOR, SIGNS SHALL BE PLACED ON THE NEAREST ADJACENT WALL.
13. PICTOGRAMS TO HAVE A 6" MIN FIELD & NOT CONTAIN CHARACTERS OR BRAILLE.
14. "YOU ARE HERE" EGRESS / EVACUATION MAPS REQUIRED AT ALL LOCATION DETERMINED BY AHJ OR FIRE MARSHALL
15. COORDINATE EXACT ROOM TEXT AND LOCATION WITH OWNER.

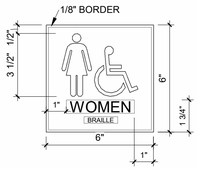




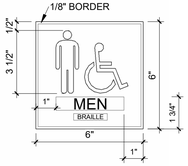
SIGNAGE TYPE: 1 SIGNAGE TYPE: 2 SIGNAGE TYPE: 3







SIGNAGE TYPE: 4 SIGNAGE TYPE: 5 SIGNAGE TYPE: 6

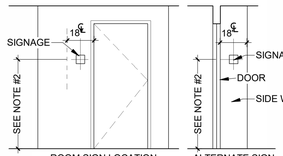


SIGNAGE TYPE: 7

NOTE:

1. IF WALL LOCATION DOES NOT PERMIT FOR THE SIGN TO BE PLACED AS SHOWN, USE THE ALTERNATE SIGN LOCATION AND/OR COORDINATE W/ OWNER PRIOR TO INSTALLATION.

2. RAISED CHARACTERS SHALL BE 48" MIN. ABOVE THE FLOOR VIEWING POSITION, MEASURED TO THE BASELINE OF THE LOWEST RAISED CHARACTER AND 60": MAX. ABOVE THE FLOOR, MEASURED TO THE BASELINE OF THE HIGHEST RAISED CHARACTER. (PER TABLE 703.2.4 VISUAL CHARACTER HEIGHT)



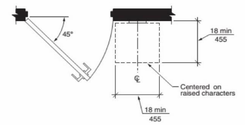
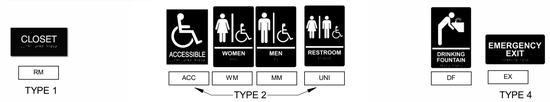


FIGURE 703.3.11 LOCATION OF SIGNS AT DOORS

ACCESSIBLE SIGNAGE LEGEND:



EXIT EGRESS & STAIRS SIGNAGE: REQUIREMENTS



*DIMENSIONS OF SIGNS PER ICC A117.1 SECTION 703 SIGNS *ROOM SIGNS BY OWNER

TYPE 6

PARKING SIGN LEGEND: SEE CIVIL DRAWINGS FOR LOCATIONS





EXIT SIGN LEGEND
SEE ELECTRICAL DRAWINGS FOR LOCATIONS



NJ Certificate of Authorization	
Eng'r. Nos.	24GA27937500
Arch. Nos.	21AC00012400
Date	11/03/26
Checked	JMP
Drawn	RS

JEFFREY POTTER, R.A.
The REGISTERED ARCHITECT License No. 21AI02015400

Date	Description

PRELIMINARY
NOT FOR CONSTRUCTION

Engineering, Planning, Architecture, Surveying Inc.
LAN ASSOCIATES
1018 Laurel Oak Road Ste 11, Voorhees, NJ 08043 | t. 856-375-2700 | f. 201-447-1233

ACCESSIBILITY & NOTES
HIGH SCHOOL LOCKER ROOM INTERIOR ALTERATIONS
LOCKER ROOM ALTERATIONS
1300 MARKET STREET, GLOUCESTER CITY, NJ 08033

State Project #: 07-1770-050-XX-XXXX

Job No. 2.20457.20

File No.

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BUILDING CODE ANALYSIS

PROJECT: LOCKER ROOM ALTERATIONS TO GLOUCESTER CITY HIGH SCHOOL
LOCATION: 1300 MARKET STREET, GLOUCESTER CITY, NJ 08030
APPLICABLE CODE: INTERNATIONAL BUILDING CODE, 2024 NEW JERSEY EDITION (IBC-NJ 2024)
USE GROUP: GROUP E – EDUCATIONAL
CLIMATE ZONE: 4A (ASHRAE 90.1-2019, TABLE B1-1)
CONSTRUCTION CLASSIFICATION: TYPE II-B, NON-SPRINKLERED
PROJECT SCOPE: ALTERATIONS TO EXISTING GIRLS & BOYS LOCKER ROOMS TO PROVIDE DEDICATED PHYSICAL EDUCATION LOCKER ROOM AREAS & TEAM LOCKER ROOMS AREAS, INCLUDING TOILET ROOM ALTERATIONS & UPGRADES, CONSOLIDATION AND RELOCATION OF SHOWER AREAS, AND NEW OFFICE & STORAGE ROOMS.

ALTERATION AND CONVERSION OF EXISTING TRAINER'S ROOM TO OFFICE USE FOR DISTRICT ADMINISTRATION.

ALTERATIONS TO EXISTING C-1 ROOM TO CONVERT TO NEW TRAINER'S ROOM INCLUSIVE OF NEW EXTERIOR DOOR AND ADA RAMP TO EXTERIOR.

ALL RENOVATIONS, ALTERATIONS, AND MODIFICATIONS ARE MADE TO BETTER ADDRESS THE FUNCTIONAL AND OPERATIONAL NEEDS OF THE SCHOOL WHILE PROVIDING MODERN AND UPDATED AMENITIES TO STUDENTS & STAFF.

CHAPTER 3 – USE AND OCCUPANCY CLASSIFICATION

USE GROUP: GROUP E – EDUCATIONAL.
NO CHANGE OF USE IN EXISTING BUILDING.

CHAPTER 5 – GENERAL BUILDING HEIGHT AND AREAS

GENERAL BUILDING HEIGHT AND AREA LIMITATIONS PER IBC SECTION 506, TABLES 504.3, 504.4 & 506.2.

ALLOWABLE BUILDING HEIGHT: 55 FT (UNSPRINKLERED)
ALLOWABLE NUMBER OF STORIES: 2 (UNSPRINKLERED)
ALLOWABLE BUILDING AREA PER STORY FOR GROUP E, TYPE II-A CONSTRUCTION: ---- SF (UNSPRINKLERED)

CHAPTER 6 – TYPES OF CONSTRUCTION

TYPE II-B CONSTRUCTION, NON-SPRINKLERED, THROUGHOUT THE EXISTING BUILDING AND ADDITIONS.

TABLE 601 – FIRE-RESISTANCE RATING REQUIREMENTS (GROUP E, TYPE II-B)
- PRIMARY STRUCTURAL FRAME: 0 HR
- BEARING WALLS (EXTERIOR): 0 HR (≥ 30 FT FSD), 1 HR (< 30 FT)
- BEARING WALLS (INTERIOR): 0 HR
- NONBEARING WALLS (EXTERIOR): PER TABLE 602
- NONBEARING WALLS (INTERIOR): 0 HR
- FLOOR CONSTRUCTION: 0 HR
- ROOF CONSTRUCTION: 0 HR

CHAPTER 7 – FIRE AND SMOKE PROTECTION FEATURES

FIRE-RESISTANCE REQUIREMENTS PER IBC TABLES 601 AND 602.

NO CHANGE TO REQUIRED EXTERIOR WALL RATINGS OR FIRE SEPARATION DISTANCE OF EXISTING BUILDING.
NEW ADDITION MAINTAINS COMPLIANT FIRE-SEPARATION DISTANCE AND DOES NOT REDUCE ALLOWABLE OPENINGS OF EXISTING EXTERIOR WALLS.
NO FIRE BARRIER REQUIRED BETWEEN ADDITION AND EXISTING BUILDING AS ADDITION FIRE AREA DOES NOT TRIGGER SPRINKLER REQUIREMENTS PER IBC 903.2.3.

CHAPTER 9 – FIRE PROTECTION SYSTEMS

EXISTING BUILDING SPRINKLER RETROFIT NOT REQUIRED UNDER THE NJ REHABILITATION SUBCODE, AS WORK DOES NOT INTRODUCE A HAZARD, DOES NOT ALTER REQUIRED FIRE-RESISTANCE ASSEMBLIES, AND DOES NOT REDUCE FIRE-SEPARATION DISTANCE.

CHAPTER 10 – MEANS OF EGRESS

OCCUPANT LOADS PER TABLE 1004.5 (NET OR GROSS AS APPLICABLE):
- CLASSROOMS: 20 SF PER OCC (NET)
- ASSEMBLY UNCONCENTRATED (GYMS, CAFETERIA): 15 SF PER OCC (NET)
- STORAGE (ACCESSORY): 300 SF PER OCC (GROSS)
- OFFICE: 150 SF PER OCC (GROSS)
- LOCKER/EXERCISE ROOM: 50 SF PER OCC (GROSS)
- KITCHEN: 200 SF PER OCC (GROSS)
- VOCATIONAL ROOM: 50 SF PER OCC (NET)

MEANS OF EGRESS REQUIREMENTS:
- DOOR AND EGRESS WIDTHS PER SECTIONS 1005.3.1 AND 1005.3.2
- EXIT ACCESS TRAVEL DISTANCES COMPLY WITH TABLE 1017.2
- EXISTING BUILDING EGRESS NOT REDUCED; COMPLIES WITH N.J.A.C. 5:23-6

CHAPTER 11 – ACCESSIBILITY

COMPLIANT WITH IBC CHAPTER 11 AND ICC A117.1-2017.
ALL NEW SPACES FULLY ACCESSIBLE.
ALTERED AREAS COMPLY WITH N.J.A.C. 5:23-6.6.

CHAPTER 12 – INTERIOR ENVIRONMENT

COMPLIES WITH IBC CHAPTER 12 REQUIREMENTS FOR LIGHT, VENTILATION, TEMPERATURE CONTROL, AND SOUND.
NEW MECHANICAL SYSTEMS DESIGNED PER MECHANICAL CODE AND ASHRAE 90.1-2025.

CHAPTER 29 – PLUMBING FIXTURES

EXISTING TOILET ROOMS WILL BE ALTERED PER N.J.A.C. 5:23-6 (REHAB SUBCODE).

EGRESS PLAN - SYMBOLS & LEGEND

NAME — ROOM/SPACE NAME
XXX SF — ROOM/SPACE SQ. FT.
XX SF/PERSON — OCCUPANT LOAD FACTOR
= XX OCCU. — MAX. # OF OCCUPANTS

XX OCC. — TOTAL # OF OCCUPANTS

XX OCC. — TOTAL # OF OCCUPANTS
XX' — MAXIMUM EXIT ACCESS TRAVEL DISTANCE

SYMBOL DENOTES AN ACCESSIBLE MEANS OF EGRESS TO GRADE

EGRESS ELEMENT NOTES

NOTE #1
DOUBLE LEAF DOOR: 6' - 0" (3' - 0" PER LEAF)
ACTUAL CLEAR WIDTH: 5' - 8" (NO CENTER MULLION)
EGRESS CAPACITY: (SPRINKLERED) 68.5" / 0.15" = 456 OCCUPANTS
(NON-SPRINKLERED) 68.5" / 0.20" = 342 OCCUPANTS

NOTE #2
SINGLE LEAF DOOR: 3' - 0"
ACTUAL CLEAR WIDTH: 2' - 9 5/8"
EGRESS CAPACITY: (SPRINKLERED) 33.5" / 0.15" = 223 OCCUPANTS
(NON-SPRINKLERED) 33.5" / 0.20" = 167 OCCUPANTS

NOTE #3 (IBC-NJ 1005.3.1.1 & 1005.3.2.1)
EGRESS CAPACITY FACTOR:
STAIRWAY = (SPRIKNLERED, OTHER THAN GROUP H & I-2) 0.2" PER OCCUPANT
(NON-SPRINKLERED) 0.3" PER OCCUPANT

COMPONENTS OTHER THAN STAIRWAYS =
(SPRINKLERED, OTHER THAN GROUP H & I-2) 0.15" PER OCCUPANT
(NON-SPRINKLERED) 0.2" PER OCCUPANT

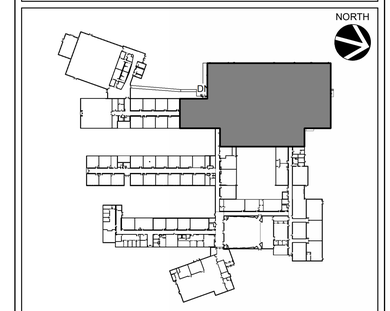
FIRE SAFETY

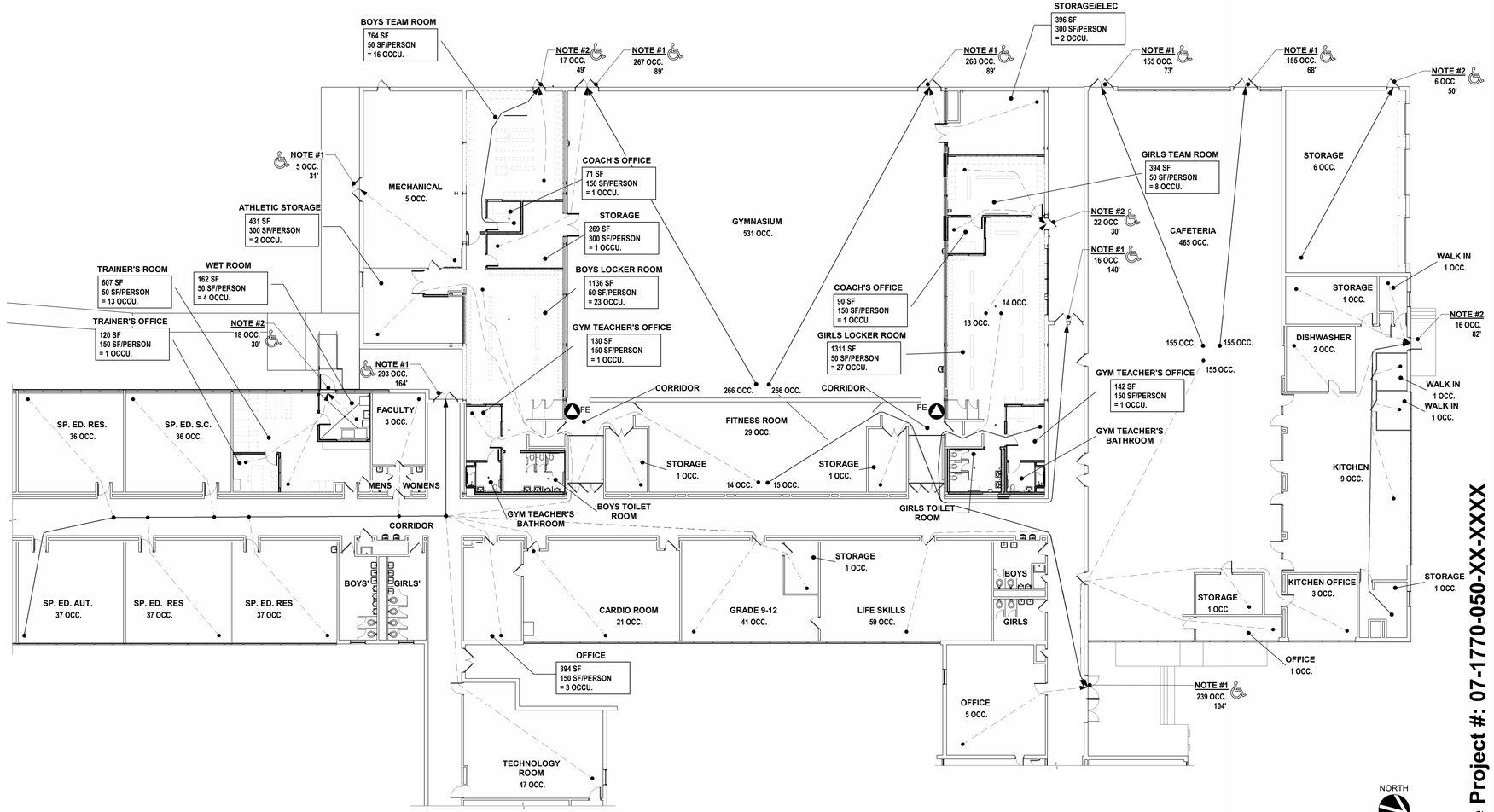
2-HOUR FIRE WALL
1-HOUR FIRE BARRIER

TYPE OF CONSTRUCTION: IIIB, NON-SPRINKLERED

FE — EXISTING FIRE EXTINGUISHER

KEY PLAN





1 / A0.01 EGRESS PLAN
1/16" = 1'-0"

State Project #: 07-1770-050-XX-XXXX

NJ Certificate of Authorization	
Eng'r. Nos.	24GA27937500
Arch. Nos.	21AC00012400
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JEFFREY POTTER, R.A.
Title REGISTERED ARCHITECT License No. 21AI02015400

PRELIMINARY NOT FOR CONSTRUCTION

Date	Description

LAN ASSOCIATES
Engineering, Planning, Architecture, Surveying Inc.
1018 Laurel Oak Road Ste 11, Voorhees, NJ 08043 | t. 856-375-2701 | f. 201-447-1233

EGRESS PLAN
HIGH SCHOOL LOCKER ROOM INTERIOR ALTERATIONS
LOCKER ROOM ALTERATIONS
1300 MARKET STREET, GLOUCESTER CITY, NJ 08033

Job No. 2.20457.20
File No.

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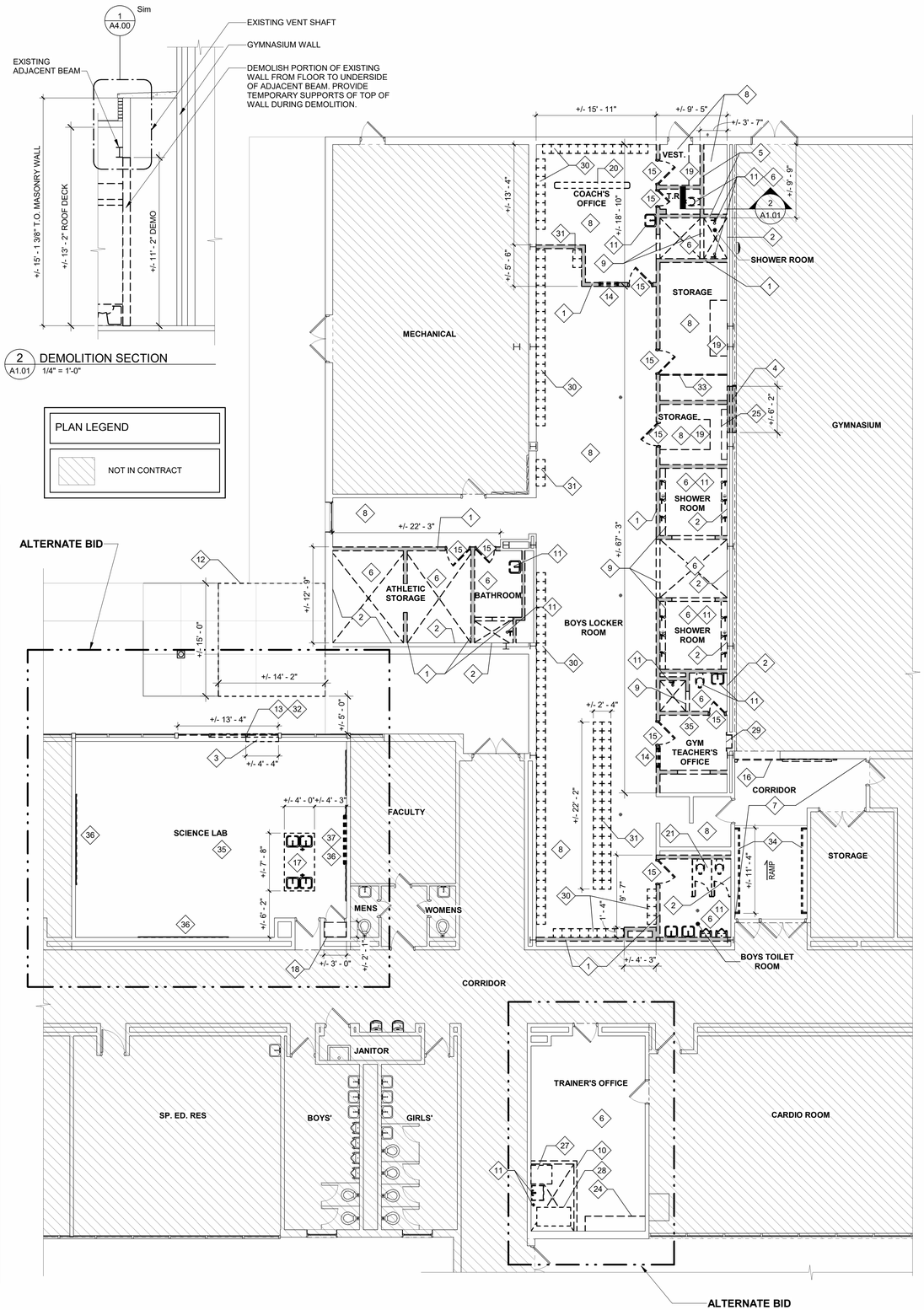
GENERAL DEMOLITION NOTES

1. ALL DEMOLITION WORK AS INDICATED IS REQUIRED TO BE PERFORMED IN A SEQUENCE SO AS NOT TO DELAY THE WORK OF ANY OTHER TRADE.
2. CONTRACTOR IS TO TAKE ALL NECESSARY MEASURES TO PREVENT DAMAGE TO ANY ADJACENT PROPERTY OR PERSONS.
3. PROMPTLY REPAIR DAMAGES CAUSED TO ADJACENT FACILITIES BY DEMOLITION OPERATIONS AT NO COST TO OWNER.
4. OWNER TO REMOVE ALL EXISTING LOOSE FURNITURE PRIOR TO CONSTRUCTION.
5. NOTIFY ARCHITECT IF STRUCTURAL MEMBERS ARE UNCOVERED DURING DEMOLITION. KEEP ARCHITECT ADVISED OF PROGRESS.
6. CONTRACTOR IS TO COORDINATE ALL INDICATED DEMOLITION WITH NEW CONSTRUCTION TO ENSURE PROPER LOCATION AND DIMENSIONS OF DEMOLISHED AREAS. INFORM ARCHITECT OF DISCREPANCIES.
7. CONDUCT DEMOLITION OPERATIONS AND REMOVAL OF DEBRIS TO ENSURE MINIMUM INTERFERENCE WITH ROAD, STREETS, WALKS AND OTHER ADJACENT OCCUPIED OR USED FACILITIES.
8. PROTECT EXISTING UTILITIES AND SERVICES AGAINST DAMAGE DURING DEMOLITION OPERATIONS.
9. SEAL ALL CORRIDORS LEADING TO EXISTING AREAS TO REMAIN TO PREVENT DUST INFILTRATION.
10. REMOVE DEBRIS, RUBBISH AND OTHER MATERIALS RESULTING FROM DEMOLITION OPERATIONS. PREMISES MUST BE LEFT BROOM CLEAN AND READY FOR NEW CONSTRUCTION.
11. BURNING OF REMOVED MATERIALS FROM DEMOLISHED STRUCTURES WILL NOT BE PERMITTED ON SITE.
12. DURING DEMOLITION AND REMOVAL, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT, IN WRITING, OF ANY UNEXPECTED OR UNUSUAL CONDITIONS
13. ALL ABANDONED AND ACTIVE WIRING REMOVALS SHALL EXTEND TO NEAREST ACTIVE REMAINING SOURCE PANEL. THE FEEDER CONDUIT TO THE PANEL SHOULD BE IDENTIFIED AND MARKED ACCORDINGLY.
14. DISCONNECT POWER TO OUTLETS, EQUIPMENT & LIGHTING PRIOR TO DEMOLITION.
15. TEMPORARY LIGHTING IS TO BE PROVIDED BY CONTRACTOR AS NECESSARY. LIGHT LEVELS TO BE ADEQUATE FOR THE SAFE PERFORMANCE OF DEMOLITION OPERATIONS.
16. NOTIFY THE ARCHITECT IF EXISTING PLUMBING LINES, DUCTWORK, AND ELECTRICAL LINES ARE INTERFERING WITH PROPOSED UTILITY WORK. DO NOT REMOVED ABOVE MENTIONED EQUIPMENT WITHOUT INSTRUCTIONS FROM THE ARCHITECT.
17. ALL EXISTING MATERIALS, SURFACES, OR EQUIPMENT THAT IS DISTURBED OR DAMAGED DURING ANY NEW WORK SHALL BE PROMPTLY REPAIRED, PATCHED OR REPLACE TO ITS ORIGINAL CONDITION, AT NO COST TO THE OWNER.
18. CONCRETE FLOOR CUTTING: CLEARLY MARK THE AREA OF THE FLOOR SLAB TO BE CUT FOR THE PLUMBING INSTALLATION. ONLY CUT THE SLAB TO THE SIZE NECESSARY FOR THE PLUMBING INSTALLATION. AVOID EXCESSIVE CUTTING TO MINIMIZE THE STRUCTURAL IMPACT. ONCE THE PLUMBING INSTALLATION IS COMPLETE, REPAIR AND PATCH THE CUT PORTION OF THE SLAB WITH CONCRETE OR A SUITABLE REPAIR MATERIAL TO RESTORE THE SLAB'S STRENGTH AND APPEARANCE.
19. ACOUSTIC CEILING: WHERE ONLY PORTION OF AN EXISTING CEILING SYSTEM IS INDICATED TO BE REMOVED, CAREFULLY REMOVE ONLY THE SECTIONS OF THE GRID THAT ARE NECESSARY FOR THE CEILING REMOVAL. THE REMAINING GRID SHOULD REMAIN INTACT AND UNDAMAGED UNLESS EXPLICITLY SPECIFIED FOR FURTHER ALTERATION.
20. DISCONNECT EXISTING LIGHTS, SMOKE DETECTORS, AND HVAC COMPONENTS BEFORE MODIFYING THE GRID.
21. REMOVE AND SALVAGE: DETACH ITEMS FROM EXISTING CONSTRUCTION, IN A MANNER TO PREVENT DAMAGE, AND DELIVER TO OWNER READY FOR REUSE.

DEMOLITION ANNOTATIONS FLOORPLAN LEGEND

(#) SYMBOL INDICATES DEMO KEY NOTE

KEY #	DESCRIPTION
1	SAWCUT & REMOVE EXG CMU WALL.
2	REMOVE EXISTING WALL TILE TO THE FACE OF EXISTING CMU, SAND AND SMOOTH SURFACE FOR NEW FINISH.
3	DEMOLISH PORTION OF EXTERIOR WALL FOR INSTALLATION OF NEW DOOR.
4	DEMOLISH PORTION OF EXISTING CMU WALL W/ FACE TILE TO ACCOMODATE NEW DOORS. MODIFY EXISTING GYM WALL PADS AS NEEDED TO BE RE-ATTACHED TO FACE OF NEW DOOR, TO SUPPORT CONTINUOUS WALL PROTECTION.
5	CAREFULLY SAWCUT EXISTING CMU WALL TO UNDERSIDE OF STRUCTURE. (SEE DTL 2/A1.01 FOR MORE DEMO INFO)
6	DEMOLISH EXISTING FLOOR TILE FLOOR DOWN TO CONCRETE SLAB. PREP SLAB TO RECIEVE NEW FINISH.
7	REMOVE EXISTING CARPET IN HALLWAY, PREP SLAB TO RECIEVE NEW FINISH.
8	EXISTING CONCRETE FLOOR TO BE PREPPED TO RECIEVE NEW FLOORING.
9	DEMOLISH TILED CURB AT ENTRANCE AND WITHIN SHOWER AREA. LEVEL EXISTING FLOOR DOWN TO CONCRETE SLAB.
10	DEMOLISH EXISTING TILED CURB DRAIN AREA & WALL TILE, AND CAP PLUMBING (SEE PLUMBING DRAWINGS)
11	REMOVE ALL EXISTING PLUMBING FIXTURES MODIFY EXISTING PIPING FOR NEW FIXTURES, IF REQ'D. (SEE PLUMBING DRAWINGS). SALVAGE EXISTING FLUSHOMETERS AND TURN OVER TO OWNER.
12	REMOVE PORTION OF EXG CONCRETE WALK AS REQ'D TO ACCOMODATE RAMP CONSTRUCTION.
13	DEMOLISH (3) EXISTING WINDOWS BETWEEN TWO EXISTING COLUMNS.
14	REMOVE EXISTING WINDOW AND FRAME & PREP OPENING FOR INFILL.
15	REMOVE EXISTING DOOR & DOOR FRAME. ALL DOOR HARDWARE, LOCKS, CYLINDERS & CLOSURES TO BE SALVAGED AND TURNED OVER TO OWNER.
16	REMOVE METAL SLIDING GATE AND RELATED HARDWARE.
17	DEMOLISH EXISTING CASEWORK, ALONG WITH SINKS, GAS LINE, & POWER (SEE ELECTRICAL & PLUMBING DRAWINGS)
18	DEMOLISH EXISTING BUILT-IN SHELVING IN CLOSET, SAND & SMOOTH EXISTING CMU FOR NEW FINISH, IF NEEDED.
19	DEMOLISH EXISTING STORAGE SHELVING
20	DEMOLISH ALL EXISTING FIXED BENCHES.
21	REMOVE ALL EXISTING SHOWER/TOILET STALLS
22	REMOVE EXISTING NOT USED AUDIO/INTERCOM SYSTEM. (SEE ELECTRICAL DRAWINGS)
23	REMOVE AND RELOCATE EXISTING ELECTRICAL INFRASTRUCTURE AND REINSTALL IN NEW LOCATION PER PROPOSED DRAWINGS. (SEE ELECTRICAL DRAWINGS)
24	REMOVE EXISTING DISCONNECTED AC UNIT (SEE MECHANICAL DRAWINGS)
25	DEMOLISH EXISTING ABANDONED RADIATOR.
26	REMOVE AND SALAVGE EXISTING BOTTLE FILLER/WATER FOUNTAIN AND TURN OVER TO OWNER. (SEE ELECTRICAL & PLUMBING DRAWINGS
27	EXISTING ICE MACHINE TO BE SALAVGED AND REINSTALLED IN NEW TRAINER'S ROOM, LOCATION PER PROPOSED DRAWINGS.
28	EXISTING ICE BATH TO BE SALAVGED AND TURNED OVER TO OWNER.
29	REMOVE EXISTING TRIM ON LOCKER ROOM SIDE OF OPENING, INFILL LOCKER ROOM SIDE OF OPENING SO THAT LOCKERS HAVE FLUSH WALL TO SIT INFRONT OF. DO NOT DISTURB GYM SIDE OF OPENING.
30	REMOVE ALL EXISTING LOCKERS AND INTEGRAL BASES IN THEIR ENTRIETY.
31	REMOVE ALL EXISTING LOCKERS AND CONCRETE BASES IN THEIR ENTRIETY.
32	REMOVE AND REINSTALL (3) EXISTING BLINDS.
33	DEMOLISH EXISTING METAL FRAME STORAGE WALL
34	REMOVE EXISTING WALL/FLOOR MOUNTED METAL RAILING. PATCH & PREP FLOOR/WALL.
35	EXISTING ASBESTOS CONTAINING FLOORING TO BE ABATED BY CONTRACTOR UNDER SEPERATE CONTRACT BEFORE THE COMENCEMENT OF WORK. PREPARE NEWLY EXPOSED CONCRETE TO RECIEVE NEW FLOORING.
36	EXISTING CHALKBOARDS HAVE ASBESTOS CONTAINING GLUE DOTS, THEY WILL BE ABATED BY A CONTRACTOR UNDER SEPERATE CONTRACT BEFORE THE COMMENCEMENT OF WORK.
37	SALVAGE EXISTING SMARTBOARD AND TURN OVER TO OWNER.



NJ Certificate of Authorization	
Eng'r. Nos.	24GA27937500
Arch. Nos.	21AC00012400
Date	11/03/26
Checked	JMP
Drawn	RS

JEFFREY POTTER, R.A.
The REGISTERED ARCHITECT License No. 21AI02015400

PRELIMINARY NOT FOR CONSTRUCTION

Date	Description

LAN ASSOCIATES
Engineering, Planning, Architecture, Surveying Inc.
1018 Laurel Oak Road Ste 11, Voorhees, NJ 08043 | t. 856-375-27011 | f. 201-447-1233

DEMOLITION FLOOR PLAN
HIGH SCHOOL LOCKER ROOM INTERIOR ALTERATIONS
LOCKER ROOM ALTERATIONS
1300 MARKET STREET, GLOUCESTER CITY, NJ 08033

State Project #: 07-1770-050-XX-XXXX

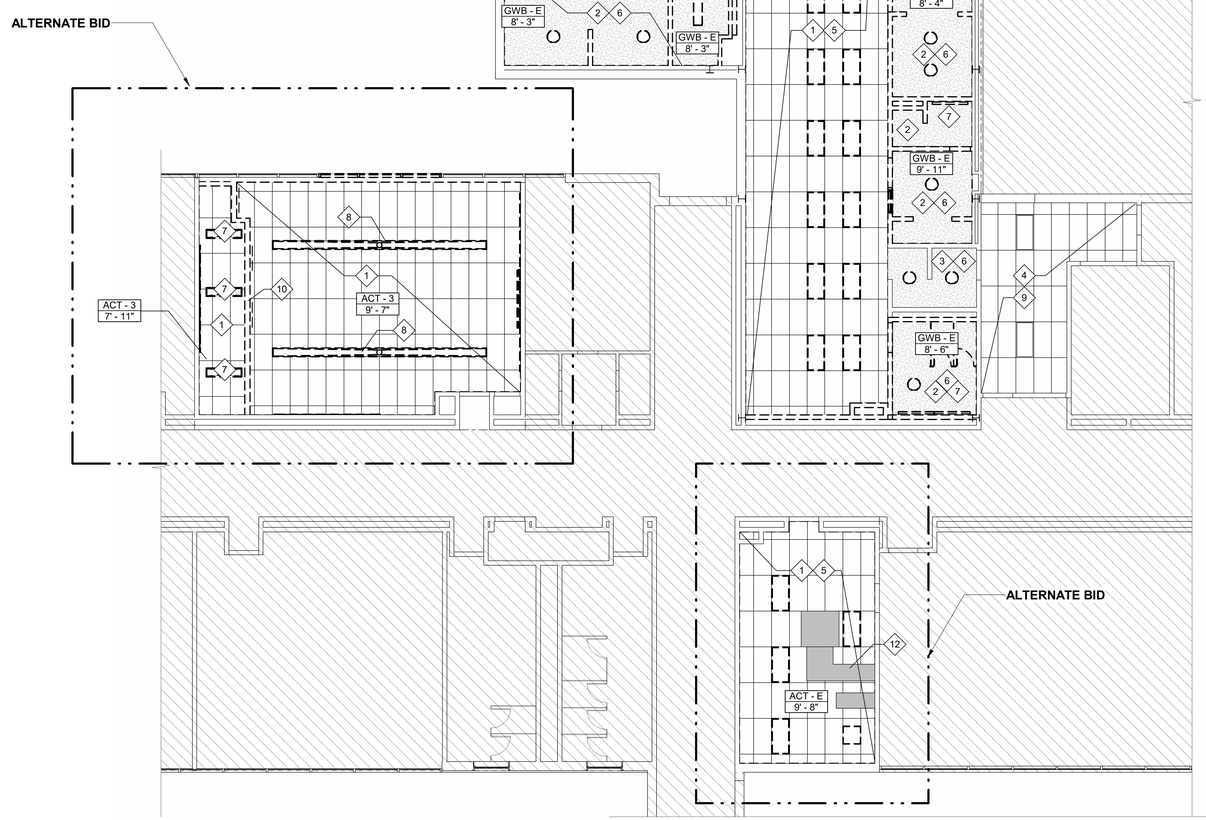
Job No. 2.20457.20
File No.

A1.01

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DEMOLITION ANNOTATION CEILING LEGEND	# SYMBOL INDICATES DEMO KEY NOTE

KEY #	DESCRIPTION
1	DEMOLISH EXISTING ACT CEILING IN ITS ENTIRETY.
2	DEMOLISH EXISTING HARD CEILING IN ITS ENTIRETY.
3	EXISTING HARD CEILING TO REMAIN
4	EXISTING ACT CEILING TO REMAIN
5	REMOVE AND REUSE ALL EXISTING 2X4 LIGHTING (SEE PROPOSED REFLECTED CEILING PLAN FOR NEW LOCATIONS)
6	REMOVE EXISTING ROUND LIGHT FIXTURES IN THEIR ENTIRETY
7	REMOVE AND REUSE EXISTING LINEAR FIXTURES (SEE PROPOSED REFLECTED CEIING PLAN FOR NEW LOCATIONS)
8	REMOVE & MODIFY PORTION OF EXISTING LINEAR LIGHTING TO ACCOMODATE NEW WORK. (SEE ELECTRICAL)
9	EXISTING LIGHT FIXTURES TO REMAIN
10	EXISTING SOFFIT TO REMAIN
11	DEMOLISH EXISTING HARD SOFFIT
12	RECONFIGURE EXISTING BELOW CEILING DUCTWORK TO ACCOMODATE NEW CEILING BELOW, PER MECH DRAWINGS.



1 A1.02 DEMOLITION REFLECTED CEILING PLAN
1/8" = 1'-0"

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REFLECTED CEILING DEMO PLAN
HIGH SCHOOL LOCKER ROOM INTERIOR ALTERATIONS
LOCKER ROOM ALTERATIONS
1300 MARKET STREET, GLOUCESTER CITY, NJ 08033

Job No. 2.20457.20
File No.

A1.02

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BOYS LOCKER ROOM



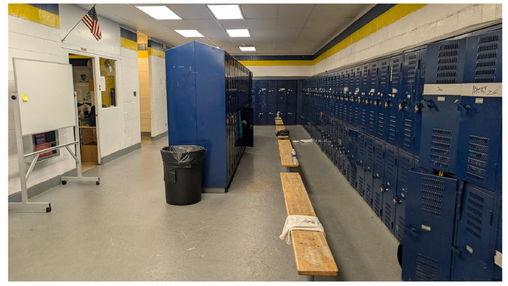
EXISTING GYM TEACHER'S BATHROOM



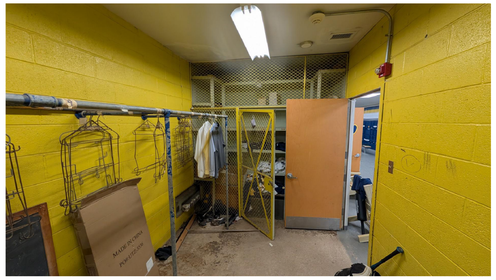
EXISTING BOYS TOILET ROOM



EXISTING BOYS SHOWERS



EXISTING BOYS LOCKER ROOM



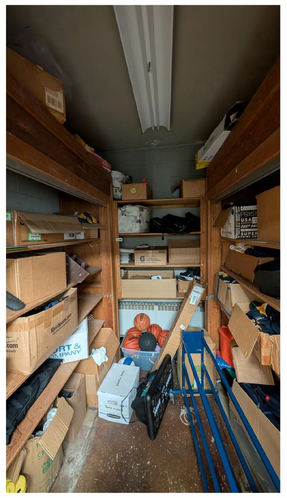
EXISTING STORAGE



EXISTING GYM SLIDING DOOR



EXISTING BOYS OLD SHOWER ROOM

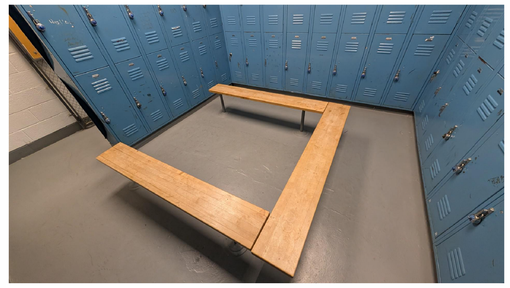


EXISTING STORAGE

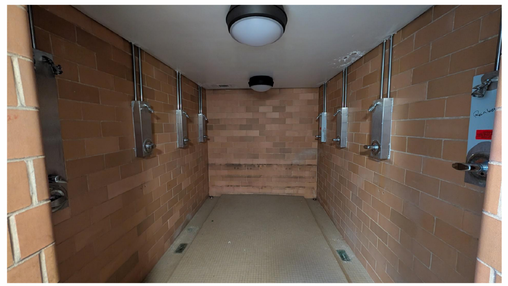
GIRLS LOCKER ROOM



EXISTING GIRLS LOCKER ROOM



EXISTING GIRLS LOCKERS & BENCHES



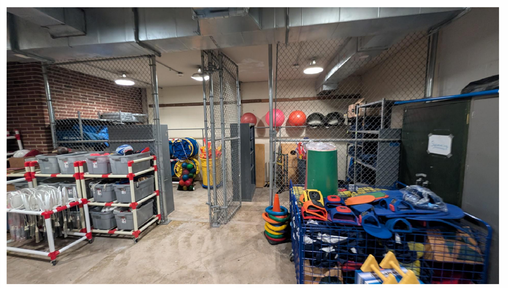
EXISTING GIRLS SHOWERS



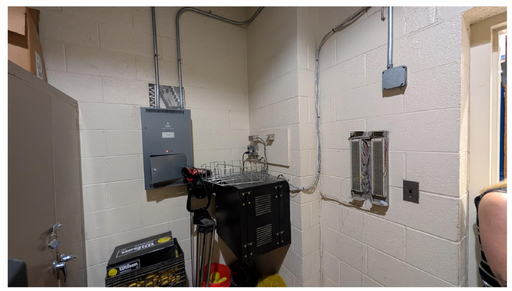
EXISTING GIRLS SHOWERS



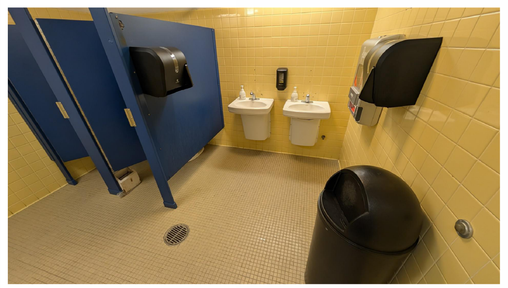
EXISTING ELECTRICAL TRANSFORMER



EXISTING STORAGE



EXISTING AUDIO/TELECOM



EXISTING GIRLS TOILET ROOM

State Project #: 07-1770-050-XX-XXXX

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Planning,
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Surveying Inc.
1018 Laurel Oak Road Ste 11, Voorhees, NJ 08043 | t. 856-375-2701 | f. 201-447-1233

EXISTING PHOTOS

HIGH SCHOOL LOCKER ROOM INTERIOR ALTERATIONS

LOCKER ROOM ALTERATIONS

1300 MARKET STREET, GLOUCESTER CITY, NJ 08033

Job No. 2.20457.20

File No.

A1.03

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FLOOR PLAN GENERAL NOTES

1. REFER TO ENLARGED FLOOR PLANS FOR MORE INTERIOR PARTITION TYPE TAGS, AND DIMENSIONS.
2. ALL INTERIOR PARTITIONS WITHOUT PARTITION TYPE TAGS SHALL BE PARTITION TYPE 1, UNLESS OTHERWISE NOTED.
3. UNLESS OTHERWISE NOTED, ALL INTERIOR DIMENSIONS ARE FROM FINISH FACE OF WALL TO FINISH FACE OF WALL.
4. UNLESS OTHERWISE NOTED, REFER TO EGRESS PLANS FOR LOCATIONS AND TYPES OF FIRE EXTINGUISHER AND FIRE EXTINGUISHER CABINET.
5. UNLESS OTHERWISE NOTED, CONTRACTOR TO PROVIDE ALL BUILT-IN CASEWORK AND MILLWORK.
6. UNLESS OTHERWISE NOTED, ALL LOOSE FURNITURE TO BE FURNISHED BY OWNER (N.I.C.). REFER TO FURNITURE PLANS FOR MORE INFORMATION.
7. ALL INTERIOR PARTITIONS SHALL EXTEND FULLY FROM FLOOR TO FLOOR/ROOF DECK ABOVE (U.O.N.)

CONSTRUCTION KEY NOTES LEGEND

(#) SYMBOL INDICATES CONST. KEY NOTE

KEY #	DESCRIPTION
1	ALIGN NEW FINISH FACE WITH ADJACENT EXISTING FINISH FACE OF WALL.
2	6' W. X 7' H WIRE MESH SLIDING GATE, W/ ALUM. TRACK FASTENED TO EXISTING CMU WALL. (OPENING IS EXISTING) GLOBAL INDUSTRIES OR APPROVED EQUAL. TO MATCH EXISTING GATE. (SEE DOOR SCHEDULE ON A6.01)
3	ADA COMPLIANT WALL MOUNTED HANDRAILS, PAINTED; SEE T0.02 FOR ADA MOUNTING HEIGHTS. COLOR TO BE SELECTED BY ARCHITECT.
4	WOOD BENCHES (OFCI)
5	4-TIER METAL LOCKERS (OFCI)
6	1-TIER ATHLETIC SPORT LOCKERS (OFCI)
8	ADA ACCESIBILE 12' RAMP W/ LANDINGS. (OVERALL ELEVATION CHANGE: V.I.F.)
9	CLEAR ANODIZED PIPE & TUBE RAILINGS.
10	CONCRETE PAD, LEVEL WITH ADACENT CONCRETE SIDEWALK
11	RELOCATED TRANSFORMER BOX & ELECTRICAL PANELS. (SEE ELECTRICAL DRAWINGS)
12	INFILL EXISTING OPENING WITH SIMILAR TYPE WALL.
13	REPLACE ALUMINUM THRESHOLD AT EXISTING DOORS IF NEEDED.
14	AREA TO RECIEVE NEW UNDERLAYMENT SHERWIN-WILLIAMS RESUFLOR SCREED SF SLOPE AND FILL MORTAR, SLOPED 1/4" PER FOOT TOWARDS NEW FLOOR DRAIN. - SEE FINISH SCHEDULE & PLUMBING DRAWINGS
15	PROMETHIAN BOARD ON CASTERS (OFOI) CONTRACTOR TO PROVIDE POEWR AND DATA TO THIS LOCATION (SEE ELECTRICAL DWGS)
16	PROVIDE MULLION MATE SYSTEM OR EQUAL TO SEAL IN GAP AT WINDOW SYSTEM WHERE NEW WALL MEETS EXISTING COLUMN/MUNTIN.

SPECIALTY EQUIPMENT

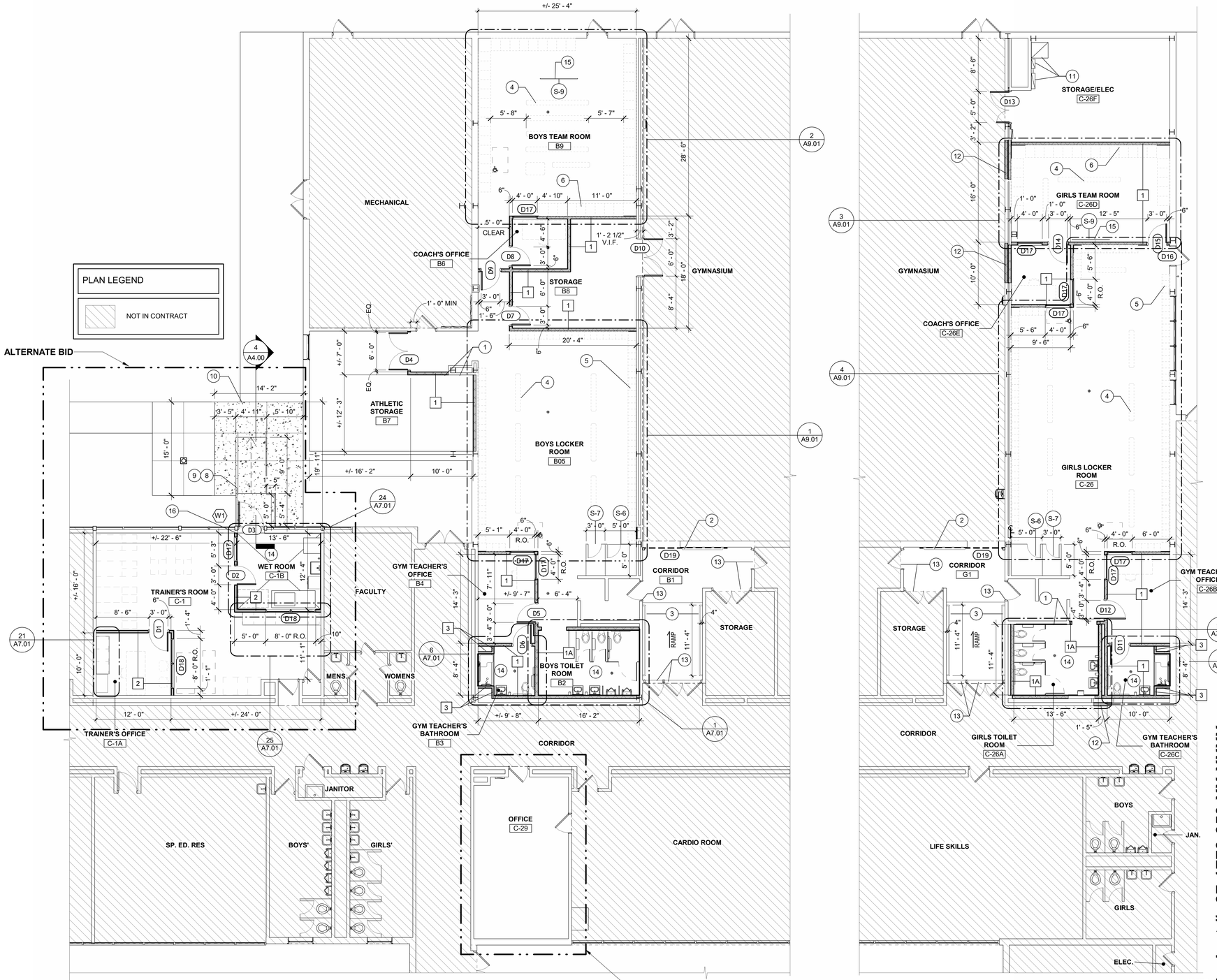
TYPE	DESCRIPTION
S-1	SURFACE MOUNTED SOAP DISPENSER (OFCI)
S-2	WELDED FRAME STAINLESS STEEL MIRROR - 24"X30" BY BOBRICK OR APPRV. EQUAL (B-290 SERIES)
S-3	SURFACE MOUNTED PAPER TOWEL ROLL (OFCI)
S-4	TOILET TISSUE DISPENSER (OFCI)
S-5	18", 36" & 42" ADA GRAB BARS W/ SAFETY GRIP FINISH (BOBRICK DB-6806.99 SERIES)
S-6	60" X 60" PRIVACY STALL
S-7	30" X 60" PRIVACY STALL
S-8	TOILET PARTITIONS - SEE SPEC.
S-9	ROLLING MOBILE MAGNETIC WHITE BOARD '6 X 4'
S-10	EXISTING ICE MACHINE -RELOCATED (SEE ARCH, ELECTRICAL, & PLUMBING)
S-11	GE DISHWASHER (MODEL:GPT225SGLBB)
S-12	HYDROWORX XLR8
S-14	18" URINAL SCREEN

CASEWORK SCHEDULE

TYPE	DESCRIPTION
BC-1	24" W BASE CABINET (1) DRAWER & (1) DOOR
BC-2	21" W BASE CABINET (1) DRAWER & (1) DOOR
TC-1	36" W TALL CABINET (2) DOORS W/ ADJUSTABLE SHELVES

PLAN LEGEND

NOT IN CONTRACT



1 A2.01 PROPOSED FLOOR PLAN
1/8" = 1'-0"

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1018 Laurel Oak Road Ste 11, Voorhees, NJ 08043 | t. 856-375-2701 | f. 201-447-1233

PROPOSED FLOOR PLAN

HIGH SCHOOL LOCKER ROOM INTERIOR ALTERATIONS

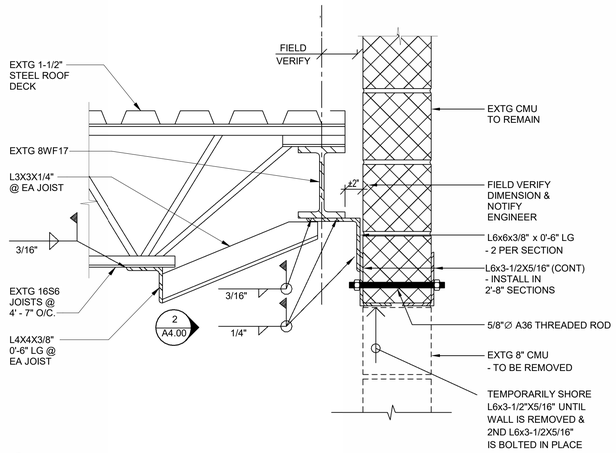
LOCKER ROOM ALTERATIONS

1300 MARKET STREET, GLOUCESTER CITY, NJ 08033

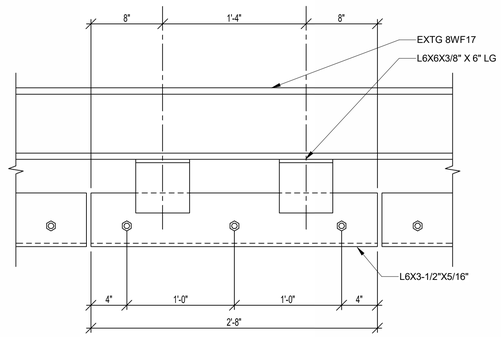
Job No. 2.20457.20

File No.

A2.01



1 A4.00 WALL SUPPORT DETAIL
1 1/2" = 1'-0"

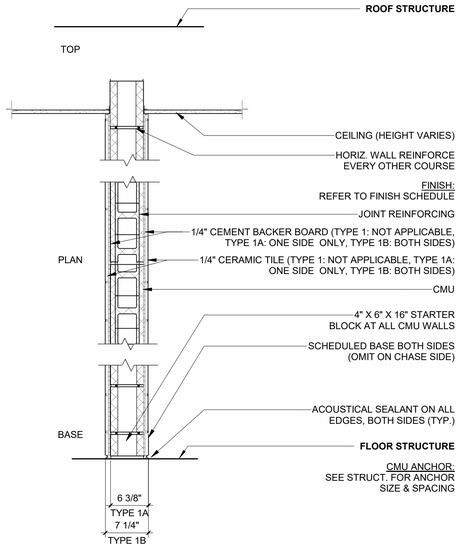


2 A4.00 WALL ELEVATION DETAIL
1 1/2" = 1'-0"

WALL PARTITION TYPES

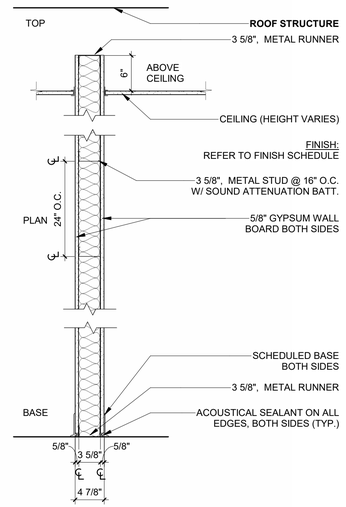
TYPE 1, 1A, 1B

INTERIOR PARTITION - 6" MASONRY CMU BLOCK WALL (NON-LOAD BEARING)



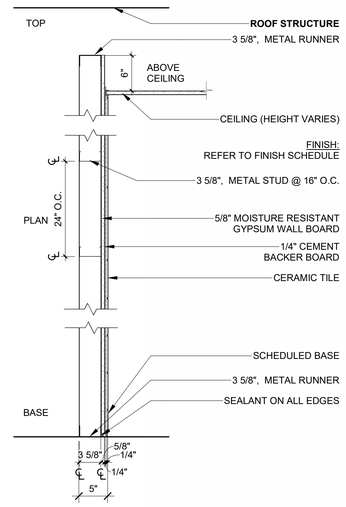
TYPE 2

INTERIOR PARTITION - STEEL STUD (NON-LOAD BEARING)

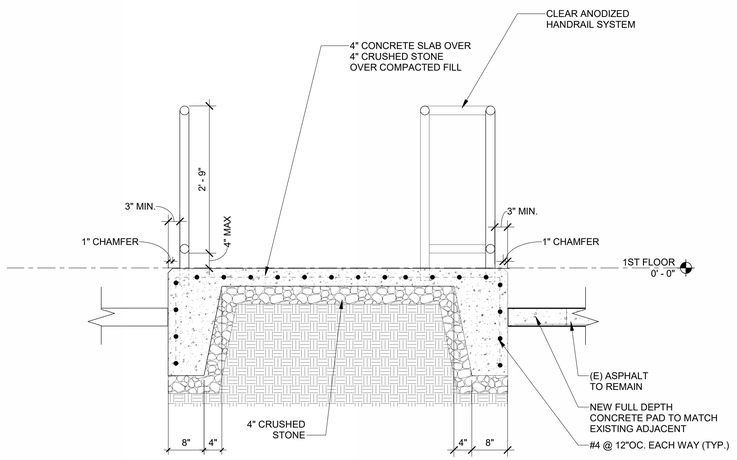


TYPE 3

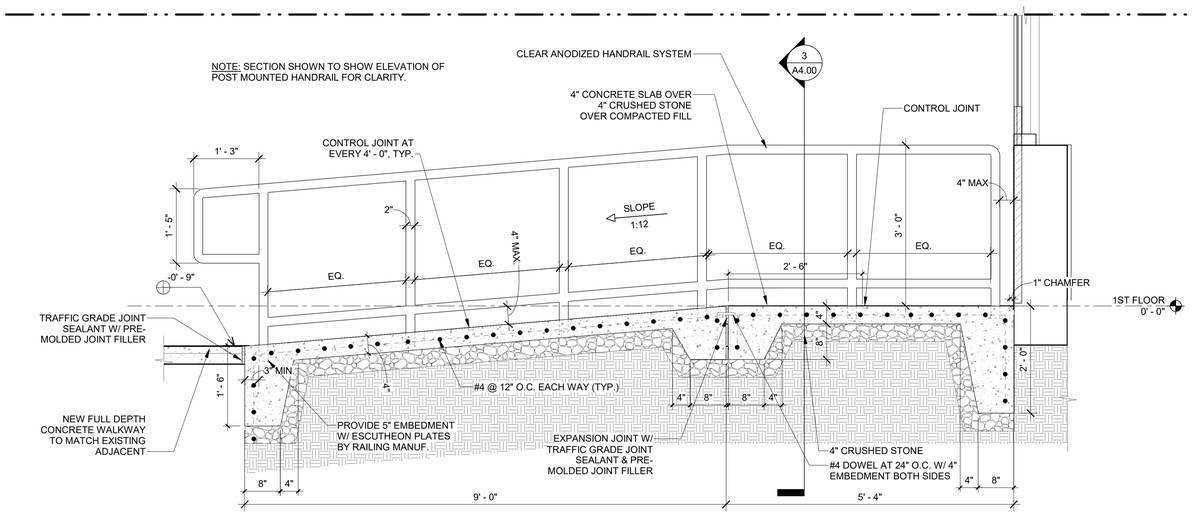
INTERIOR CHASE WALL - STEEL STUD (NON-LOAD BEARING)



ALTERNATE BID



3 A4.00 RAMP DETAL
3/4" = 1'-0"



4 A4.00 RAMP SECTION
3/4" = 1'-0"

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PRELIMINARY NOT FOR CONSTRUCTION

Date	Description

WALL PARTITIONS & DETAILS
HIGH SCHOOL LOCKER ROOM INTERIOR ALTERATIONS
LOCKER ROOM ALTERATIONS
1300 MARKET STREET, GLOUCESTER CITY, NJ 08033

LAN ASSOCIATES
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File No.

A4.00

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LIGHTING LEGEND

ACT-1 — CEILING TYPE
12' - 0" — CEILING HEIGHT

SUSPENDED ACOUSTIC CEILING TILE
ACT-1 2X4 SUSPENDED CEILING GRID SYSTEM WITH SCHOOL ZONE FINE FISSURED CEILING TILES. NRC-0.70
ACT-2 2X4 SUSPENDED CEILING GRID SYSTEM WITH CERAMA GUARD FINE FISSURED CEILING TILES. NRC-0.55
ACT-3 EXISTING 2X4 SUSPENDED CEILING GRID TO REMAIN. NEW SCHOOL SONE FINE FISSURED CEILING TILES. NRC-0.70

GWB-1
5/8" PAINTED GYPSUM WALL BOARD ON METAL SUSPENSION SYSTEM.

COLOR SELECTED BY ARCHITECT.

LIGHTING SCHEDULE

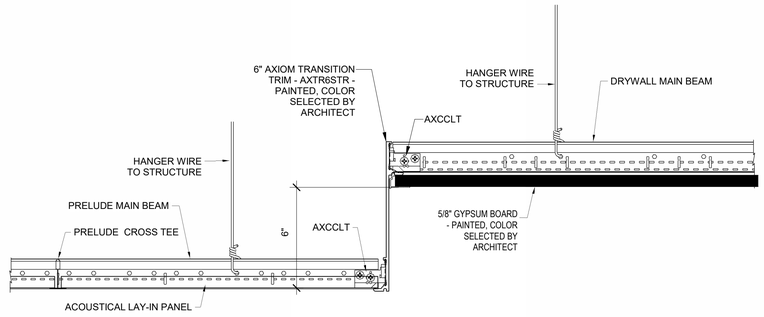
TYPE	DESCRIPTION
L-1	18" ROUND SURFACE MOUNTED LED
L-2	6" RECESSED DOWNLIGHT LED
L-3	CPX LED PANEL 2X4
L-E1	EXISTING LIGHT TO BE REUSED: 2x4 FLAT PANEL - ACUITY -CPXR 2X4 AL07 SWW7
L-E2	EXISTING LIGHT TO BE REUSED: 4' 2L LED TUBE/SELF BALLAST - KEYSTONE - KT-LED10.5-48G-840-DX2/G2
L-E3	EXISTING LIGHT TO BE REUSED: 8' FIXTURE, 4' 6L LED TUBE/SELF BALLAST - KEYSTONE - KT-LED10.5-48G-840-DX2/G2
L-E4	EXISTING LIGHT TO BE REUSED: 4' 2L LED TUBE/SELF BALLAST T5HE - KEYSTONE - KT-LED13T5HE - 48GC-840-DX2/G2

REFLECTED CEILING PLAN GENERAL NOTES

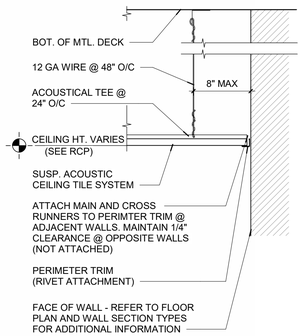
1. ALL INDICATED CEILING HEIGHTS ARE FROM TOP OF FINISHED FLOOR.
2. ALL SUSPENDED ACOUSTICAL CEILING TILED AREAS SHALL RECEIVE LAY-IN LED 2X4 FIXTURES, UNLESS OTHERWISE NOTED.
3. COORDINATE GRILLS, REGISTERS, DIFFUSERS, AND EXPOSED DUCTWORK W/ MECH.

PLAN LEGEND

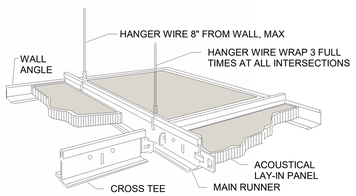
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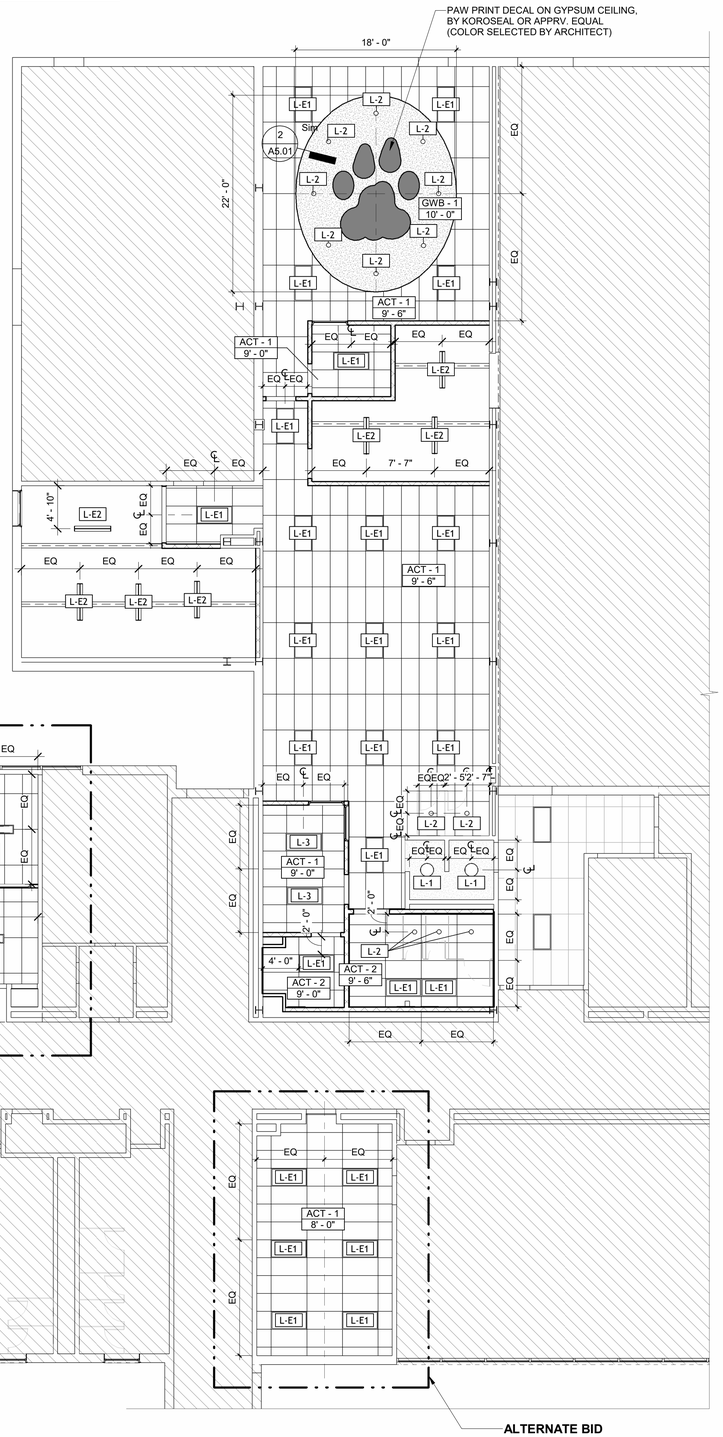
2 A5.01 CEILING CLOUD EDGE DETAIL
3" = 1'-0"



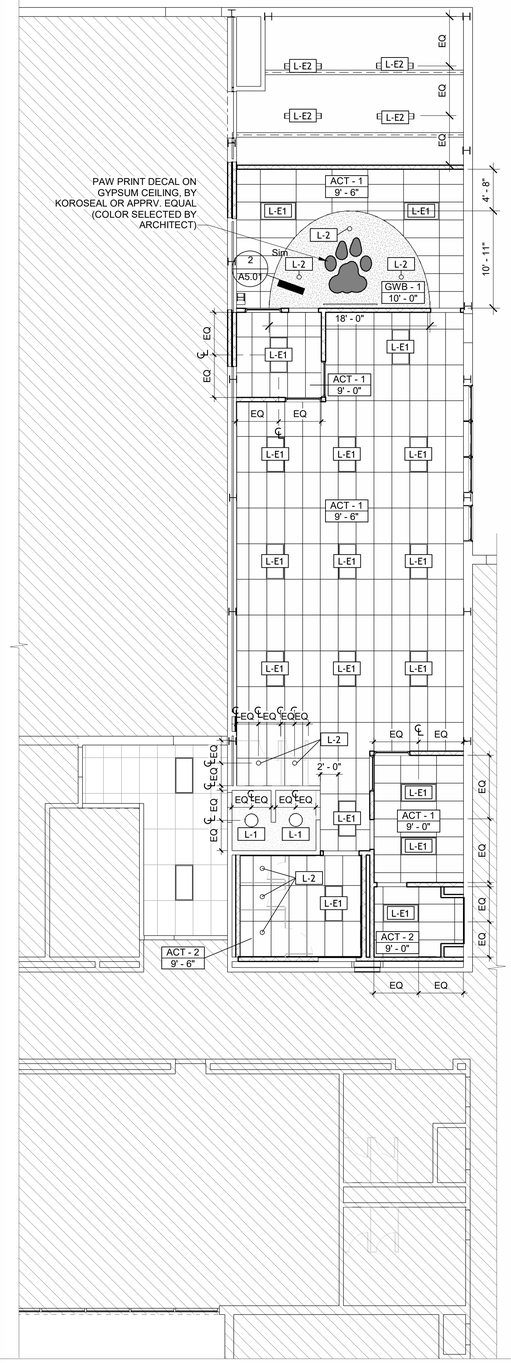
3 A5.01 TYP. SUSP. ACCOUSTICAL CLG. EDGE DETAILS
1 1/2" = 1'-0"



4 A5.01 TYP. SUSP. CEILING DETAIL
N.T.S.



1 A5.01 PROPOSED REFLECTED CEILING PLAN
1/8" = 1'-0"



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A5.01

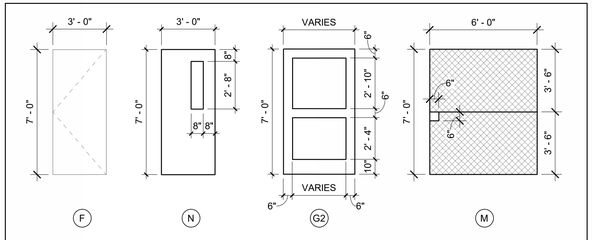
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DOOR SCHEDULE

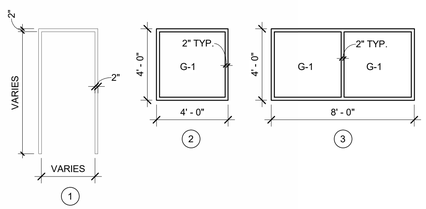
DOOR LEAF COLORS/STAINS TO BE SELECTED BY ARCHITECT

DOOR NO.	ROOM NAME	ROOM NO.	DOOR TYPE	DOOR MATERIAL	DOOR DIMENSIONS (W x H)	FRAME TYPE	FRAME MATERIAL	HEAD DETAIL	JAMB DETAIL	SADDLE DETAIL	GLAZING TYPE	FIRE RATING	HARDWARE	COMMENTS
D1	TRAINER'S OFFICE	C-1A	N	WD	36" x 82"	1	HM	H3	J3	S1	-	-	2.0	OFFICE FUNCTION (FREE EGRESS, OUTSIDE LOCKABLE BY KEY)
D2	WET ROOM	C-1B	F	WD	36" x 84"	1	HM	H3	J3	S3	-	-	3.0	OFFICE FUNCTION (FREE EGRESS, OUTSIDE LOCKABLE BY KEY)
D3	WET ROOM	C-1B	G2	FRP.	48" x 84"	W1	ALUM.	H2	J2	S2	G-2	-	1.0	EXIT ACCESS, CARD READER ACCESS
D4	ATHLETIC STORAGE	B7	F	WD	72" x 82"	1	HM	H1	J1	S1	-	-	6.0	STORAGE ROOM, FREE EGRESS FROM INSIDE ROOM, KEY LOCKABLE FROM OUTSIDE, CAN CHOOSE TO UNLOCK AND KEEP UNLOCKED. (DOUBLE DOOR TO RECIEVE (1) ACTIVE, (1) INACTIVE LEAF WITH TOP & BOTTOM PINS)
D5	GYM TEACHER'S OFFICE	B4	N	WD	36" x 82"	1	HM	H1	J1	S1	G-1	-	3.0	OFFICE FUNCTION (FREE EGRESS, OUTSIDE LOCKABLE BY KEY)
D6	GYM TEACHER'S BATHROOM	B3	F	WD	36" x 82"	1	HM	H1	J1	S3	-	-	4.0	SINGLE USE BATHROOM LOCKABLE
D7	STORAGE	B8	F	WD	36" x 82"	1	HM	H1	J1	S1	-	-	5.0	STORAGE ROOM, FREE EGRESS FROM INSIDE ROOM, KEY LOCKABLE FROM OUTSIDE, CAN CHOOSE TO UNLOCK AND KEEP UNLOCKED.
D8	COACH'S OFFICE	B6	N	WD	36" x 82"	1	HM	H1	J1	S1	G-1	-	2.0	OFFICE FUNCTION (FREE EGRESS, OUTSIDE LOCKABLE BY KEY)
D9	BOYS TEAM ROOM	B9	N	WD	36" x 82"	1	HM	H1	J1	S1	G-1	-	2.0	OFFICE FUNCTION (FREE EGRESS, OUTSIDE LOCKABLE BY KEY)
D10	STORAGE	B8	F	WD	72" x 82"	1	HM	H1	J1	S4	-	-	6.0	STORAGE ROOM, FREE EGRESS FROM INSIDE ROOM, KEY LOCKABLE FROM OUTSIDE, CAN CHOOSE TO UNLOCK AND KEEP UNLOCKED. (DOUBLE DOOR TO RECIEVE (1) ACTIVE, (1) INACTIVE LEAF WITH TOP & BOTTOM PINS)
D11	GYM TEACHER'S BATHROOM	C-26C	F	WD	36" x 82"	1	HM	H1	J1	S3	-	-	4.0	SINGLE USE BATHROOM LOCKABLE
D12	GYM TEACHER'S OFFICE	C-26B	N	WD	36" x 82"	1	HM	H1	J1	S1	G-1	-	3.0	OFFICE FUNCTION (FREE EGRESS, OUTSIDE LOCKABLE BY KEY)
D13	STORAGE/ELEC	C-26F	F	WD	60" x 80"	1	HM	H1	J1	S4	-	-	6.0	STORAGE ROOM, FREE EGRESS FROM INSIDE ROOM, KEY LOCKABLE FROM OUTSIDE, CAN CHOOSE TO UNLOCK AND KEEP UNLOCKED. (DOUBLE DOOR TO RECIEVE (1) ACTIVE, (1) INACTIVE LEAF WITH TOP & BOTTOM PINS)
D14	COACH'S OFFICE	C-26E	N	WD	36" x 82"	1	HM	H1	J1	S1	G-1	-	3.0	OFFICE FUNCTION (FREE EGRESS, OUTSIDE LOCKABLE BY KEY)
D15	GIRLS TEAM ROOM	C-26D	N	WD	36" x 82"	1	HM	H1	J1	S1	-	-	3.0	OFFICE FUNCTION (FREE EGRESS, OUTSIDE LOCKABLE BY KEY)
D16	GIRLS TEAM ROOM	C-26D	-	-	-	-	-	-	-	-	-	-	7.0	EXISTING DOOR & EXISTING HARDWARE TO REMAIN. CARD READER ACCESS ADD ONLY.
D17	BORROWED LIGHT	-	-	-	48" X 48"	2	HM	-	-	-	G-1	-	-	BORROWED LIGHT
D18	BORROWED LIGHT	-	-	-	48" X 96"	3	HM	-	-	-	G-1	-	-	BORROWED LIGHT
D19	GYM CORRIDOR	C-26D/B1	M	MTL.	72" X 84"	-	-	-	-	-	-	-		SLIDING GATE, W/ ALUM. TRACK FASTENED TO EXISTING CMU WALL. (OPENING IS EXISTING) GLOBAL INDUSTRIES OR APPROVED EQUAL. TO MATCH EXISTING GATE.

DOOR TYPES



FRAME TYPES

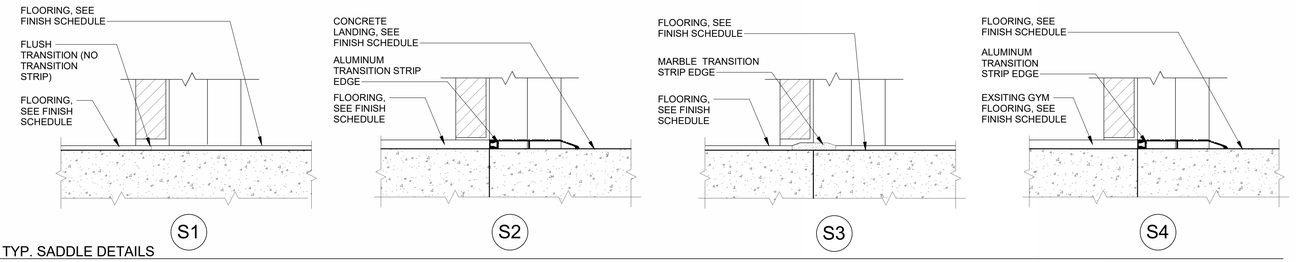


GLAZING TYPES

G-1	1/4" CLEAR TEMPERED (INTERIOR DOORS & WINDOWS)
G-2	1" INSULATING GLASS UNIT, TEMPERED, COATED LOW E (EXTERIOR WINDOWS & DOORS)

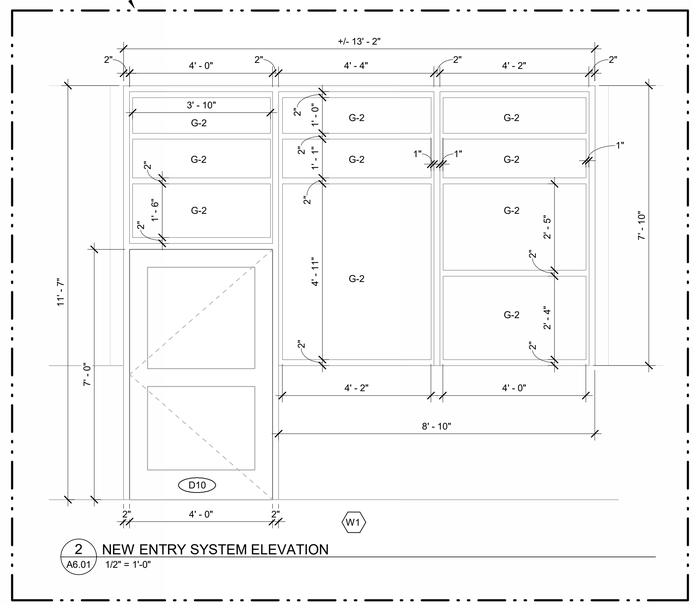
WINDOW GENERAL NOTES

1. G.C. TO FIELD VERIFY ALL NEW AND EXISTING ROUGH OPENING WITH MODEL #'S PRIOR TO ORDERING.
2. ALL OPERABLE WINDOWS TO HAVE FULL HEIGHT SCREENS.
3. ALL WINDOWS WITH A SILL HEIGHT BELOW 24" A.F.F. SHALL HAVE A WINDOW OEPNING CONTROL DEVICE AS PER CODE.
4. * INDICATES THESE UNITS MEET OR EXCEED THE FOLLOWING DIMENSIONS: 1) CLEAR OPENABLE AREA OF 5.7 SQ. FT. 2) CLEAR OPENABLE WIDTH OF 20" AND CLEAR OPENABLE HEIGHT OF 24".

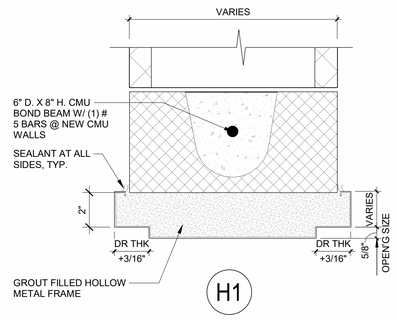


1 A6.01 TYP. SADDLE DETAILS
3" = 1'-0"

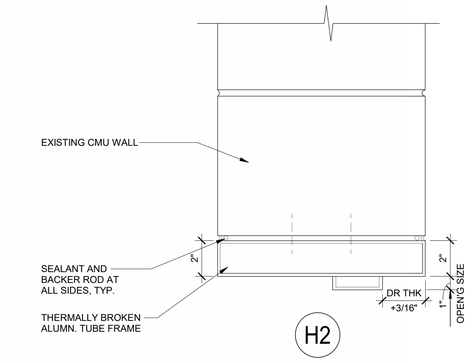
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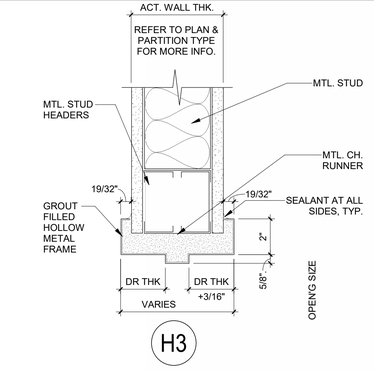
2 A6.01 NEW ENTRY SYSTEM ELEVATION
1/2" = 1'-0"



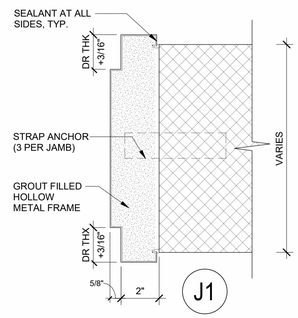
3 A6.01 H1 HEADER DETAIL
3" = 1'-0"



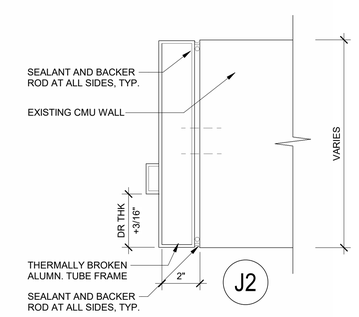
4 A6.01 H2 HEADER DETAIL
3" = 1'-0"



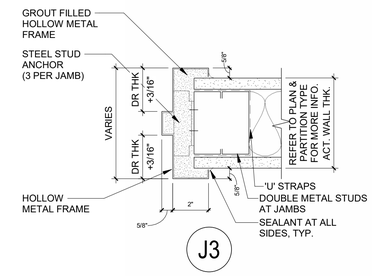
5 A6.01 H3 HEADER DETAIL
3" = 1'-0"



6 A6.01 J1 JAMB DETAIL
3" = 1'-0"



7 A6.01 J2 JAMB DETAIL
3" = 1'-0"



8 A6.01 J3 JAMB DETAIL
3" = 1'-0"

State Project #: 07-1770-050-XX-XXXX

NJ Certificate of Authorization	
Eng'r. Nos.	24GA27937500
Arch. Nos.	21AC00012400
Date	11/03/26
Checked	JMP
Drawn	RS

JEFFREY POTTER, R.A.
Title REGISTERED ARCHITECT License No. 21AI02015400

Date	Description

PRELIMINARY NOT FOR CONSTRUCTION

Engineering, Planning, Architecture, Surveying Inc.
LAN ASSOCIATES
1018 Laurel Oak Road Ste 11, Voorhees, NJ 08043 | t. 856-375-2701 | f. 201-447-1233

DOOR SCHEDULE, DOOR TYPES & DETAILS
HIGH SCHOOL LOCKER ROOM INTERIOR ALTERATIONS
LOCKER ROOM ALTERATIONS
1300 MARKET STREET, GLOUCESTER CITY, NJ 08033

Job No. 2.20457.20
File No.

A6.01

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PLUMBING FIXTURES (SEE PLUMBING)

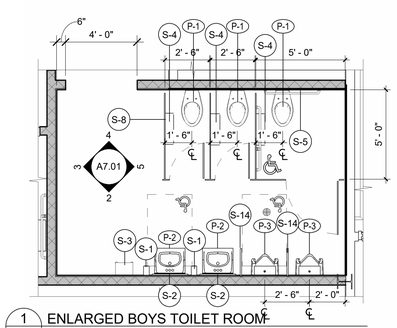
TYPE	DESCRIPTION
P-1	TOILET (SEE PLUMBING)
P-2	HAND SINK (SEE PLUMBING)
P-3	URINAL (SEE PLUMBING)
P-4	WALL MOUNTED SHOWER HEAD & CONTROLS (SEE PLUMBING)
P-5	UTILITY SINK (SEE PLUMBING)
P-7	1" HOSE BIB (SEE PLUMBING)

SPECIALTY EQUIPMENT

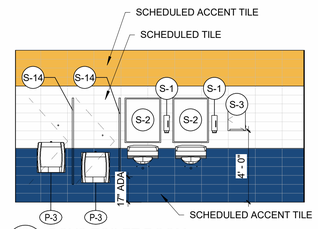
TYPE	DESCRIPTION
S-1	SURFACE MOUNTED SOAP DISPENSER (OFCI)
S-2	WELDED FRAME STAINLESS STEEL MIRROR - 24"X30" BY BOBRICK OR APPRV. EQUAL (B-290 SERIES)
S-3	SURFACE MOUNTED PAPER TOWEL ROLL (OFCI)
S-4	TOILET TISSUE DISPENSER (OFCI)
S-5	18", 36" & 42" ADA GRAB BARS W/ SAFETY GRIP FINISH (BOBRICK DB-6806.99 SERIES)
S-6	60" X 60" PRIVACY STALL
S-7	30" X 60" PRIVACY STALL
S-8	TOILET PARTITIONS - SEE SPEC.
S-9	ROLLING MOBILE MAGNETIC WHITE BOARD '6 X 4'
S-10	EXISTING ICE MACHINE -RELOCATED (SEE ARCH, ELECTRICAL, & PLUMBING)
S-11	GE DISHWASHER (MODEL:GPT225SGLBB)
S-12	HYDROWORX XLR8
S-14	18" URINAL SCREEN

CASEWORK SCHEDULE

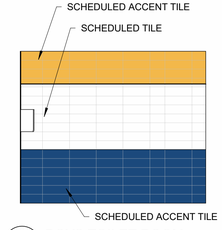
TYPE	DESCRIPTION
BC-1	24" W BASE CABINET (1) DRAWER & (1) DOOR
BC-2	21" W BASE CABINET (1) DRAWER & (1) DOOR
TC-1	36" W TALL CABINET (2) DOORS W/ ADJUSTABLE SHELVES



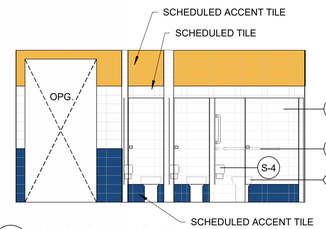
1 A7.01 ENLARGED BOYS TOILET ROOM 1/4" = 1'-0"



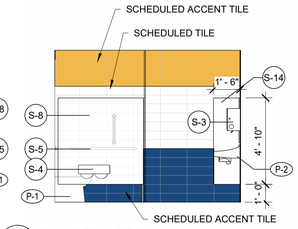
2 A7.01 BOYS TOILET ROOM 1/4" = 1'-0"



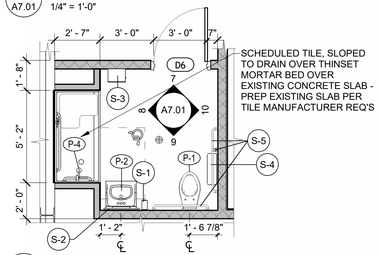
3 A7.01 BOYS TOILET ROOM 1/4" = 1'-0"



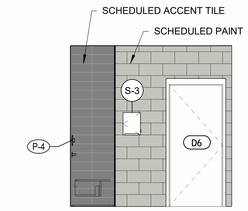
4 A7.01 BOYS TOILET ROOM 1/4" = 1'-0"



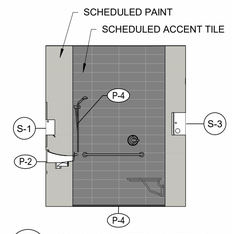
5 A7.01 BOYS TOILET ROOM 1/4" = 1'-0"



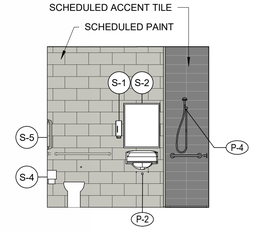
6 A7.01 ENLARGED BOYS GYM TEACHER BATHROOM 1/4" = 1'-0"



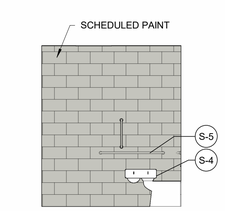
7 A7.01 BOYS GYM TEACHER BATHROOM 1/4" = 1'-0"



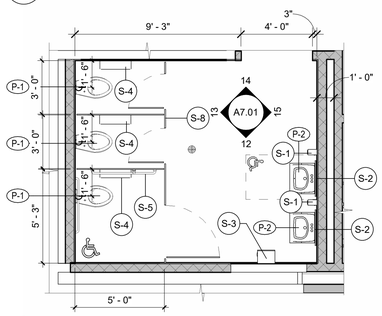
8 A7.01 BOYS GYM TEACHER BATHROOM 1/4" = 1'-0"



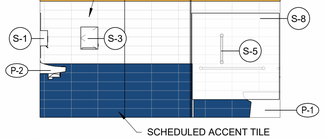
9 A7.01 BOYS GYM TEACHER BATHROOM 1/4" = 1'-0"



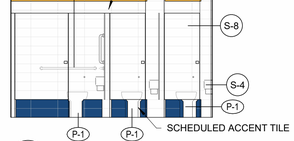
10 A7.01 BOYS GYM TEACHER BATHROOM 1/4" = 1'-0"



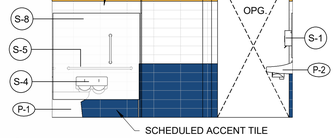
11 A7.01 ENLARGED GIRLS TOILET ROOM 1/4" = 1'-0"



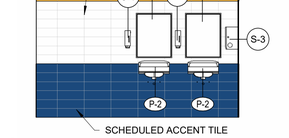
12 A7.01 GIRLS TOILET ROOM 1/4" = 1'-0"



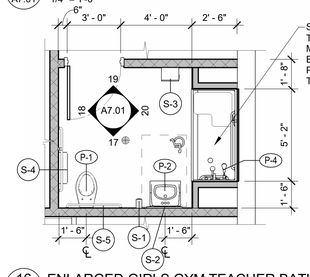
13 A7.01 GIRLS TOILET ROOM 1/4" = 1'-0"



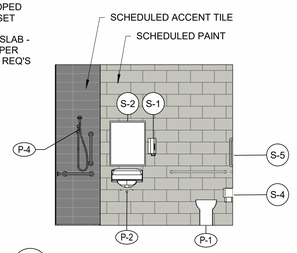
14 A7.01 GIRLS TOILET ROOM 1/4" = 1'-0"



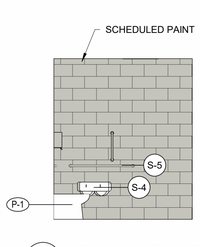
15 A7.01 GIRLS TOILET ROOM 1/4" = 1'-0"



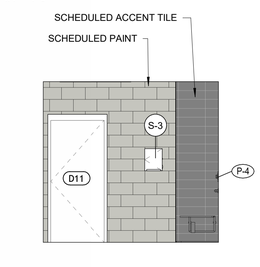
16 A7.01 ENLARGED GIRLS GYM TEACHER BATHROOM 1/4" = 1'-0"



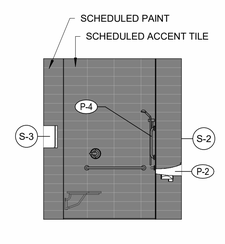
17 A7.01 GIRLS GYM TEACHER BATHROOM 1/4" = 1'-0"



18 A7.01 GIRLS GYM TEACHER BATHROOM 1/4" = 1'-0"

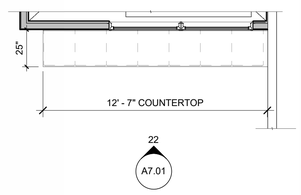


19 A7.01 GIRLS GYM TEACHER BATHROOM 1/4" = 1'-0"

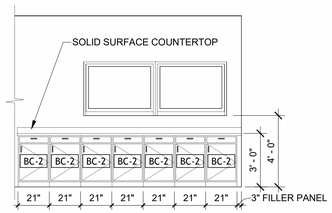


20 A7.01 GIRLS GYM TEACHER BATHROOM 1/4" = 1'-0"

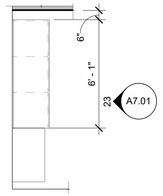
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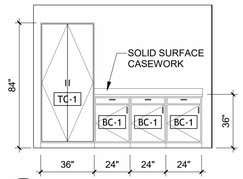
25 A7.01 ENLARGED TRAINER'S CASEWORK 1/4" = 1'-0"



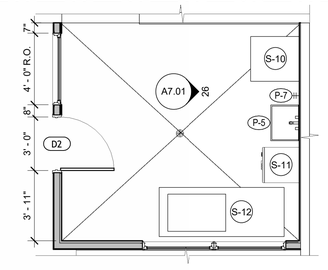
22 A7.01 TRAINER'S ROOM CASEWORK 1/4" = 1'-0"



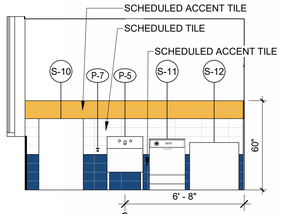
21 A7.01 ENLARGED OFFICE CASEWORK 1/4" = 1'-0"



23 A7.01 TRAINER'S OFFICE CASEWORK 1/4" = 1'-0"



24 A7.01 ENLARGED WET ROOM 1/4" = 1'-0"



26 A7.01 WET ROOM ELEVATION 1/4" = 1'-0"

State Project #: 07-1770-050-XX-XXXX

NJ Certificate of Authorization	
Eng'r. Nos.	24GA27937500
Arch. Nos.	21AC00012400
Date	11/03/26
Checked	JMP
Drawn	RS

JEFFREY POTTER, R.A.
Title REGISTERED ARCHITECT License No. 21AI02015400

Date Description

PRELIMINARY NOT FOR CONSTRUCTION

LAN ASSOCIATES
Engineering, Planning, Architecture, Surveying Inc.
1018 Laurel Oak Road Ste 11, Voorhees, NJ 08043 | t. 856-375-2700 | f. 201-447-1233

ENLARGED PLANS AND ELEVATIONS

HIGH SCHOOL LOCKER ROOM INTERIOR ALTERATIONS
LOCKER ROOM ALTERATIONS
1300 MARKET STREET, GLOUCESTER CITY, NJ 08033

Job No. 2.20457.20

File No.

A7.01

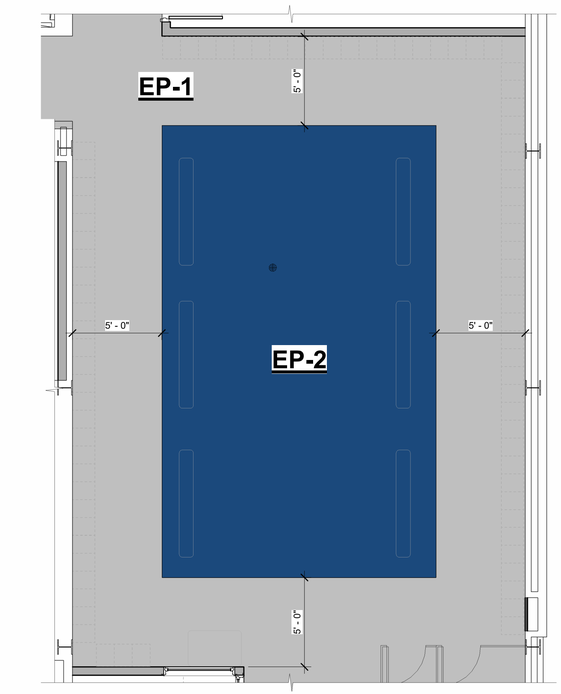
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FINISH SCHEDULE

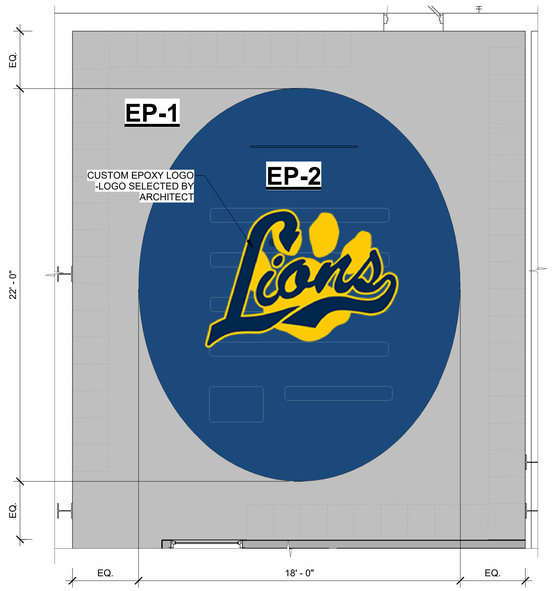
ROOM #	NAME	FLOOR FINISH	WALL BASE FINISH	WALL FINISH	DOOR TRIM	LAMINATE CABINETRY	SOLID SURFACE COUNTERTOP	NOTES
B1	CORRIDOR	RT-1	ETR	ETR	ETR	-	-	
B2	BOYS TOILET ROOM	EP-1	CT-1	CT-1,2,3	PT-1	-	-	
B3	GYM TEACHER'S BATHROOM	EP-1, CT-4	CT-4	CT-4, PT-4	PT-1	-	-	
B4	GYM TEACHER'S OFFICE	EP-1	EP-1	PT-3	PT-1	-	-	
B05	BOYS LOCKER ROOM	EP-1, EP-2	EP-1	PT-1,2,3	PT-1	-	-	
B6	COACH'S OFFICE	EP-1	EP-1	PT-3	PT-1	-	-	
B7	ATHLETIC STORAGE	EP-1	EP-1	PT-3	PT-1	-	-	
B8	STORAGE	EP-1	EP-1	PT-3	PT-1	-	-	
B9	BOYS TEAM ROOM	EP-1, EP-2	EP-1	PT-1,2,3	PT-1	-	-	
C-1	TRAINER'S ROOM	EP-2	RB-1	PT-1,3	PT-1	PL-1	SS-1	
C-1A	TRAINER'S OFFICE	EP-2	RB-1	PT-1,3	PT-1	PL-1	SS-1	
C-1B	WET ROOM	EP-2	CT-1	CT-1,2,3	PT-1	-	-	
C-26	GIRLS LOCKER ROOM	EP-1, EP-2	EP-1	PT-1,2,3	PT-1	-	-	
C-26A	GIRLS TOILET ROOM	EP-1	EP-1	CT-1,2,3	PT-1	-	-	
C-26B	GYM TEACHER'S OFFICE	EP-1	EP-1	PT-3	PT-1	-	-	
C-26C	GYM TEACHER'S BATHROOM	EP-1, CT-4	CT-4	CT-4, PT-4	PT-1	-	-	
C-26D	GIRLS TEAM ROOM	EP-1, EP-2	EP-1	PT-1,2,3	PT-1	-	-	
C-26E	COACH'S OFFICE	EP-1	EP-1	PT-3	PT-1	-	-	
C-26F	STORAGE/ELEC	EP-1	EP-1	PT-3	PT-1	-	-	
C-29	OFFICE	VCT-1	RB-1	PT-3	PT-1	-	-	
G1	CORRIDOR	RT-1	ETR	ETR	ETR	-	-	

FINISH LEGEND

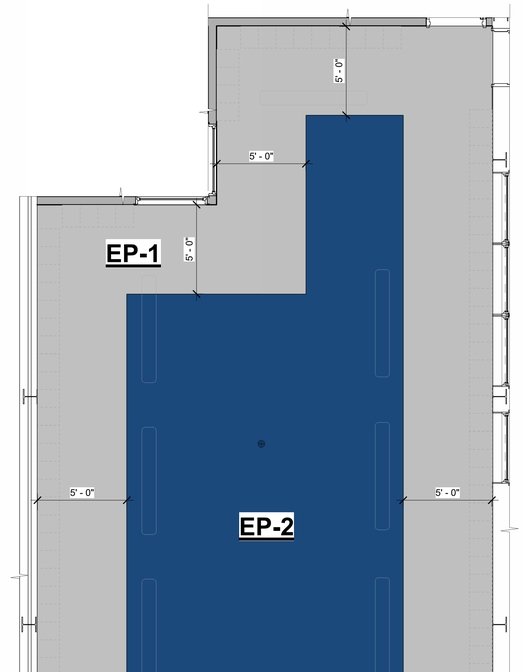
ABBREV.	DESCRIPTION	NOTES
EP-X	**EPOXY FLOOR - SEE SPEC. - (EPOXY WALL BASE 6")** **EP-1:** 'RESUFLOR DECO FLAKE BC' BY SHERWIN WILLIAMS OR EQUAL; 1/4" FLAKE SIZE; COLOR "CUSTOM FORMULA" **EP-2:** 'RESUFLOR DECO FLAKE BC' BY SHERWIN WILLIAMS OR EQUAL; 1/4" FLAKE SIZE; COLOR "CUSTOM FORMULA"	**CUSTOM POLYMER FLAKE FORMULA:** **EP-1:** F1820 45%, F9959 45%, F1130 10% **EP-2:** F1820 10%, F1130 80%, F2200 10%
CT-X	**CERAMIC TILE - SEE SPEC.** **CT-1:** 'COLOR WHEEL LINEAR' BY DALTILE OR EQUAL; 6"X18", 5/16"; COLOR "SEA BREEZE" **CT-2:** 'COLOR WHEEL LINEAR' BY DALTILE OR EQUAL; 6"X18", 5/16"; COLOR "ARCTIC WHITE" **CT-3:** 'COLOR WHEEL LINEAR' BY DALTILE OR EQUAL; 6"X18", 5/16"; COLOR "MUSTARD" **CT-4:** 'COLOR WHEEL LINEAR' BY DALTILE OR EQUAL; 6"X18", 5/16"; COLOR "SUEDE GRAY" **CT-5:** 'COLOR WHEEL MOSAIC' BY DALTILE OR EQUAL; HEXAGON, 1/4"; COLOR "SEA BREEZE"	
RT-X	**RUBBER TILE (RAISED) - SEE SPEC.** **RS-1:** 'TACTILE WARNING SURFACE' BY JOHNSONITE OR EQUAL; COLOR "NAVY BLUE", TEXTURE "RAISED ROUND"	
VCT-X	**VINYL COMPOSITE TILE - SEE SPEC.** **VCT-1:** 'VINYL COMPOSITE TILE' BY ARMSTRONG OR EQUAL; COLOR "MATCH SCHOOL TYPICAL"	
RB-X	**RUBBER WALL BASE - SEE SPEC.** **RB-1:** 'JOHNSONITE TRADITIONAL WALL BASE' BY TARKETT OR EQUAL; 6"; COLOR "NAVY BLUE"	
PT-X	**PAINT (INTERIOR) -- "SHERWIN WILLIAMS" OR APP. EQ; ALL COLORS SELECTED BY ARCHITECT** **PT-1:** GLOUCESTER CITY BLUE **PT-2:** GLOUCESTER CITY GOLD **PT-3:** GLOUCESTER CITY WHITE **PT-4:** GRAY	
PL-X	**PLASTIC LAMINATE - SEE SPEC.** **PL-1:** 'STANDARD LAMINATE' BY WILSONART OR EQUAL; COLOR "JEAN"	
SS-X	**SOLID SURFACE - SEE SPEC.** **SS-1:** 'SOLID SURFACE' BY WILSONART OR EQUAL; COLOR "POWDER WHITE"	



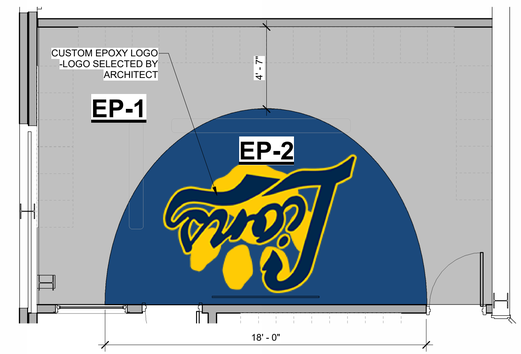
1 A9.01 BOYS LOCKER ROOM FINISH PLAN
1/4" = 1'-0"



2 A9.01 BOYS TEAM ROOM FINISH PLAN
1/4" = 1'-0"



4 A9.01 GIRLS LOCKER ROOM FINISH PLAN
1/4" = 1'-0"



3 A9.01 GIRLS TEAM ROOM FINISH PLAN
1/4" = 1'-0"

NJ Certificate of Authorization	
Eng'r. Nos.	24GA27937500
Arch. Nos.	21AC00012400
Date	11/03/26
Checked	JMP
Drawn	RS

JEFFREY POTTER, R.A.
Title REGISTERED ARCHITECT License No. 21AI02015400

Date	Description

PRELIMINARY
NOT FOR CONSTRUCTION

LAN ASSOCIATES
Engineering, Planning, Architecture, Surveying Inc.
1018 Laurel Oak Road Ste 11, Voorhees, NJ 08043 | t. 856-375-2700 | f. 201-447-1233

State Project #: 07-1770-050-XX-XXXX

FINISH PLANS & SCHEDULE

HIGH SCHOOL LOCKER ROOM INTERIOR ALTERATIONS

LOCKER ROOM ALTERATIONS

1300 MARKET STREET, GLOUCESTER CITY, NJ 08033

Job No. 2.20457.20

File No.

A9.01

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ABBREVIATIONS

&	=	AND	HVAC	=	HEAT/VENT/AIR COND
@	=	AT	HW	=	HOT WATER
℄	=	CENTERLINE	HWH	=	HOT WATER HEATER
CFM	=	CFM	HWR	=	HOT WATER RETURN PIPING
ø	=	DIAMETER OR ROUND	HWS	=	HOT WATER SUPPLY PIPING
ABV	=	ABOVE	ID	=	INSIDE DIAMETER (DIM)
AD	=	ACCESS DOOR	IN	=	INCH
ADD'L	=	ADDITIONAL	INSUL	=	INSULATION
ADJ	=	ADJUSTABLE	JAN	=	JANITOR
BB	=	BASEBOARD	MAX	=	MAXIMUM
BD	=	BAROMETRIC DAMPER	MD	=	MOTORIZED DAMPER
BDD	=	BACK DRAFT DAMPER	MECH	=	MECHANICAL
BLDG	=	BUILDING	MEP	=	MECHANICAL/ELECTRICAL/PLUMBING
BOD	=	BOTTOM OF DUCT	MFR	=	MANUFACTURER
BOS	=	BOTTOM OF STEEL	MIN	=	MINIMUM
C	=	CONVECTOR	MISC	=	MISCELLANEOUS
CH	=	CABINET HEATER	MO	=	MASONRY OPENING
CL	=	CLOSET	N.A.	=	NOT APPLICABLE
CLG	=	CEILING	NK	=	NECK SIZE
CONSTR	=	CONSTRUCTION	NTS	=	NOT TO SCALE
CONT	=	CONTINUOUS	OA	=	OUTSIDE AIR
CORR	=	CORRIDOR	OC	=	ON CENTER
CTR	=	CENTER	OD	=	OUTSIDE DIAMETER
DIA	=	DIAMETER	OPG	=	OPENING
DIM	=	DIMENSION	R	=	RISER
DN	=	DOWN	RA	=	RETURN AIR
DWG	=	DRAWING	RAD	=	RADIUS
EA	=	EACH	RAG	=	RETURN AIR GRILLE
EAR	=	EXHAUST AIR REGISTER	RAR	=	RETURN AIR REGISTER
EF	=	EXHAUST FAN	RM	=	ROOM
ELEC	=	ELECTRIC	RTU	=	ROOF TOP HV/HVAC UNIT
ENGR	=	ENGINEER (ING)	SA	=	SUPPLY AIR
EQ	=	EQUAL	SAD	=	SUPPLY AIR DIFFUSER
EQUIP	=	EQUIPMENT	SAG	=	SUPPLY AIR GRILLE
(E)/EXIST	=	EXISTING	SAR	=	SUPPLY AIR REGISTER
FAI	=	FRESH AIR INTAKE	SD	=	SMOKE DETECTOR
FC	=	FLEXIBLE CONNECTION	SECT	=	SECTION
FD	=	FIRE DAMPER	SPEC	=	SPECIFICATION
FF	=	FINISHED FLOOR	STD	=	STANDARD
FLR	=	FLOOR	STG	=	STORAGE
FP	=	FIRE PROTECTION	TG	=	TRANSFER AIR GRILLE
FSD	=	FIRE/SMOKE DAMPER	TOD	=	TOP OF DUCT
FTR	=	FINNED TUBE RADIATION	TX	=	TOILET EXHAUST
GA	=	GAUGE	TYP	=	TYPICAL
GALV	=	GALVANIZED	UH	=	UNIT HEATER
GPM	=	GALLONS PER MINUTE	UTIL	=	UTILITY ROOM
GRD	=	GRAVITY RELIEF DAMPER	UV	=	UNIT VENTILATOR
GRG	=	GRAVITY RELIEF GRILLE	V	=	VENT PIPING
			VD	=	VOLUME DAMPER
			VIF	=	VERIFY IN FIELD
			W/	=	WITH
			W/O	=	WITHOUT
			WMS	=	WIRE MESH SCREEN
			WT	=	WEIGHT

H.V.A.C. GENERAL NOTES

1. PROCURE AND PAY ALL NECESSARY PERMITS AND LICENSES REQUIRED TO CARRY OUT THE WORK SHOWN. OBTAIN AND PAY FOR ALL FEES.
2. COMPLY WITH ALL FEDERAL, STATE AND MUNICIPAL LAWS AND CODES, ORDINANCES, RULES AND REGULATIONS OF HEALTH, PUBLIC OR OTHER AUTHORITIES CONTROLLING OR LIMITING THE METHODS, MATERIALS TO BE USED OR ACTIONS OF THOSE EMPLOYED.
3. GUARANTEE H.V.A.C. SYSTEMS FOR A PERIOD OF ONE YEAR FROM OWNER'S ACCEPTANCE TO BE FREE FROM DEFECTS AND REPAIR OR REPLACE, AT NO COST TO OWNER, FAILURES OR DEFECTS.
4. H.V.A.C. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ALL HIS DEBRIS.
5. BALANCE AIR SYSTEMS TO QUANTITIES INDICATED. CONTRACTOR TO SUBMIT SIX (6) SETS OF AIR BALANCING REPORT TO ARCH./ENGR./OWNER PRIOR TO FINAL ACCEPTANCE OF THE SYSTEM.
6. BIDDERS FOR THIS WORK SHALL VISIT THE PREMISES AND CAREFULLY EXAMINE ALL EXISTING CONDITIONS BEFORE SUBMITTING BIDS. NOT ALL EXISTING CONDITIONS HAVE BEEN IDENTIFIED ON DRAWINGS. CONTRACTOR SHALL NOTIFY ARCH. & ENGR. OF ALL DISCREPANCIES PRIOR TO SUBMITTING BID.
7. ALL BIDDERS SHALL ALSO FAMILIARIZE THEMSELVES WITH THE MEANS OF ENTRANCE AND EXIT AT THE PROPERTY AND ALL OTHER INFORMATION NECESSARY TO PROPERLY CARRY OUT THE WORK.
8. THE CONTRACTOR SHALL, WITH THE APPROVAL OF THE ENGINEER AND WITHOUT ADDITIONAL COST TO THE OWNER, MAKE ALL NECESSARY CHANGES OR MODIFICATIONS TO LOCATIONS AS MAY BE NECESSARY TO SUIT REQUIREMENTS AND CONDITIONS FOR THE PROPER AND CONVENIENTLY ACCESSIBLE LOCATIONS OF ALL PARTS OF EACH SYSTEM.
9. SMALL DETAILS ARE NOT USUALLY SHOWN OR SPECIFIED BUT ALL MATERIALS & COMPONENTS NECESSARY FOR THE PROPER INSTALLATION AND OPERATION OR WORK SHALL BE FURNISHED AND INSTALLED AT NO ADDITIONAL COST.
10. THE CONTRACTOR SHALL NOTE THAT ALL SERVICE CONNECTIONS MAY NOT BE SHOWN IN TRUE POSITIONS. EACH BIDDER IS CAUTIONED, THEREFORE, TO VERIFY SAME WITH FIELD CONDITIONS.
11. CONTRACTOR SHALL CHECK FOR INTERFERENCE AND VERIFY ALL DIMENSIONS PRIOR TO FABRICATION OR INSTALLATION OF PIPING AND DUCTWORK.
12. IF AN ITEM OF EQUIPMENT OTHER THAN THE ITEM(S) SPECIFIED IS APPROVED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ADDITIONAL COST ARISING OUT OF ADDITIONAL OR CHANGED GENERAL CONSTRUCTION AND MECHANICAL WORK REQUIRED TO ACCOMMODATE THE SUBSTITUTED EQUIPMENT.
13. ALL EQUIPMENT/DIFFUSER INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURERS DIRECTIONS AND RECOMMENDATIONS.
14. CONTRACTOR TO SUBMIT SIX (6) SETS OF DUCT AIR LEAKAGE TESTING REPORT FOR REVIEW.
15. PRIOR TO LEAVING THE SITE, CONTRACTOR IS RESPONSIBLE FOR CONFIRMING PROPER OPERATIONS OF ALL DAMPERS ASSOCIATED WITH THE SCOPE OF WORK IRRESPECTIVE OF WHETHER THEY ARE NEW OR EXISTING.
16. PROVIDE FIRE DAMPERS/ACCESS DOORS AT ALL DUCT PENETRATIONS THROUGH CORRIDORS, SLABS AND OTHER RATED PARTITIONS, IRRESPECTIVE OF WHETHER IT IS INDICATED ON THE DRAWINGS OR NOT.
17. PROVIDE FIRE STOPPING AROUND ALL OPENINGS FOR DUCT, PIPING, CONDUIT, ETC. PENETRATIONS THROUGH CORRIDORS, SLABS AND OTHER RATED PARTITIONS.
18. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR ALL DEMOLITION AND RESTORATION OF AREAS OF MECHANICAL REMOVALS.
19. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR ALL CONTAINER SERVICES AND LABOR TO KEEP THE BUILDING FREE OF DEBRIS.
20. CONTRACTOR TO THOROUGHLY CLEAN ALL EXISTING DUCTWORK WHICH IS TO REMAIN (TOILET EXHAUST, SUPPLY, RETURN AND OUTDOOR AIR). PROVIDE SIX (6) COPIES OF REPORT INCLUDING COLOR PHOTOS INDICATING DUCTWORK CONDITION BEFORE & AFTER CLEANING.
21. PROVIDE NEW VOLUME DAMPERS IN EXISTING DUCTWORK (SUPPLY/RETURN/EXHAUST) WHICH IS TO BE REUSED WHERE THERE ARE NO EXISTING VOLUME DAMPERS (TYPICAL FOR ALL).
22. CONTRACTOR TO NOTE THAT BOTH DWGS & SPECS ARE COLLECTIVELY A PART OF BID REQUIREMENTS. IN CASE OF ANY DIFFERENCES BETWEEN CARIOUS DWGS OR BETWEEN DWGS & SPECS, THE MOST STRINGENT REQUIREMENTS WILL PREVAIL.
23. CONTRACTOR TO SUBMIT SIX (6) SETS OF OPERATION & MAINTENANCE MANUALS, INCLUDING A SUMMARY SHEET OF ALL EQUIPMENT MFRS, MODEL #s, SERIAL #s, SHOP DRAWING SUBMITTALS, WARRANTY INFORMATION, O&M MANUALS, PROJECT INFORMATION, CONTACT DETAILS & AS-BUILT DRAWINGS.
24. CONTRACTOR TO PROVIDE SIX (6) SETS AND AN ELECTRONIC COPY OF AS-BUILT DRAWINGS OF THE ENTIRE SYSTEM.

GENERAL NOTES

1. ALL WORK SHALL CONFORM TO THE LATEST EDITIONS OF THE NJ STATE ENERGY CODE, INTERNATIONAL MECHANICAL CODE, ASHRAE GUIDELINES, SMACNA, CAMDEN COUNTY GUIDELINES, NEC, NATIONAL STANDARD PLUMBING CODE, AND ALL OTHER APPLICABLE CODES, ORDINANCES, ETC. FOR NJ STATE AND THE LOCAL AUTHORITY HAVING JURISDICTION.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR VISITING THE SITE AND FAMILIARIZING HIMSELF WITH THE EXISTING CONDITIONS AND SCOPE OF THE WORK PRIOR TO SUBMITTING BIDS AND COMMENCING WORK, AND INCLUDE ALL SUCH NECESSARY WORK BASED ON THIS SITE FAMILIARIZATION IN THIS BID.
3. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL SAFE WORKING CONDITIONS AND SHALL OBSERVE ALL SAFETY REQUIREMENTS ESTABLISHED BY JURISDICTIONAL AGENCIES AND THE OWNER. WHERE CONFLICTS EXIST, THE MORE STRINGENT REQUIREMENT SHALL APPLY. CARE SHALL BE EXERCISED TO AVOID ENDANGERING PERSONNEL OR STRUCTURES.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION MEANS & METHODS, PROCEDURES AND JOB SITE CONDITIONS INCLUDING SAFETY. CONSTRUCTION SHALL BE PERFORMED IN SUCH A MANNER TO PROTECT WORKMEN, OCCUPANTS AND THE PUBLIC FROM INJURY AND ADJOINING PROPERTY SHALL BE PROTECTED FROM DAMAGE BY USE OF SCAFFOLDING, UNDERPINNING OR OTHER APPROVED METHOD. THE CONTRACTOR SHALL REPAIR ANY AND ALL DAMAGE CAUSED DURING OR RESULTING FROM HIS OPERATIONS IN KIND TO THE SATISFACTION OF THE OWNER AT NO ADDITIONAL COST TO THE OWNER.
5. CONTRACTOR SHALL MAINTAIN THE JOB SITE IN A CLEAN, DEBRIS FREE CONDITION. THE DUST RESULTING FROM REMOVALS SHALL BE CONTROLLED SO AS TO PREVENT ITS SPREAD TO OCCUPIED PORTIONS OF THE BUILDING AND TO AVOID CREATION OF A NUISANCE IN THE SURROUNDING AREA.
6. CONTRACTOR SHALL SECURE AND PAY FOR ALL REQUIRED PERMITS, FEES, APPROVALS, ETC. PRIOR TO COMMENCING WORK AND SHALL SECURE CERTIFICATE OF OCCUPANCY UPON COMPLETION OF WORK.
7. CONTRACTOR SHALL BE RESPONSIBLE TO DISPOSE OF ALL DEMOLISHED MATERIAL OFF SITE IN AN APPROVED MANNER. THE OWNER SHALL BE CONSULTED PRIOR TO DISPOSAL OF ANY SALVAGED OR EXCESS MATERIALS AT THE COMPLETION OF THE PROJECT.
8. UPON COMPLETION OF WORK, ALL EXCESS MATERIAL, DEBRIS, ETC. SHALL BE REMOVED AND THE WORK AREA SHALL BE LEFT CLEAN TO THE OWNER'S SATISFACTION.
9. ALL WORK SHALL BE SCHEDULED IN COMPLIANCE WITH THE OWNER'S REQUIREMENTS FOR THE USE OF THE EXISTING FACILITY.
10. CONTRACTOR SHALL FURNISH ALL EQUIPMENT THAT MAY BE REQUIRED TO PERFORM THE WORK INDICATED IN A SAFE AND ORDERLY MANNER, AND AS NECESSARY FOR A PROPER OPERATIONAL SYSTEM.
11. CONTRACTOR SHALL BE RESPONSIBLE FOR THE RELOCATION AND TEMPORARY SUPPORT OF ANY UTILITIES ENCOUNTERED DURING THE COURSE OF HIS WORK AND TO ENSURE THE OWNER'S FACILITY TO BE OPERATIONAL.
12. CONTRACTOR SHALL REVIEW DRAWINGS AND FIELD VERIFY ALL DIMENSIONS, CONDITIONS AND ELEVATIONS PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL REPORT ANY DISCREPANCIES AND ADDRESS ALL QUESTIONS TO ARCHITECT/ENGINEER PRIOR TO COMMENCING WORK.
13. CONTRACTOR SHALL BE RESPONSIBLE FOR CUTTING, PATCHING, FILLING AND CLEANING UPON COMPLETION OF WORK.
14. CONTRACTOR SHALL NOT SCALE DRAWINGS FOR DIMENSIONS IF DIMENSIONS ARE SPECIFIED ON PLAN. ALL WRITTEN OR DIMENSIONED INFORMATION TAKES PRECEDENCE OVER THE DRAWING.
15. CONTRACTOR SHALL SUBMIT, WHERE REQUIRED BY THE ARCH/ENGR, SHOP DRAWINGS AND SUBMITTALS FOR APPROVAL PRIOR TO THE START OF FABRICATION OF THOSE ITEMS. THIS INCLUDES ALL EQUIPMENT, SCHEMATIC DUCTWORK AND PIPING LAYOUT, ETC. CONTRACTOR IS RESPONSIBLE FOR ENSURING ALL EQUIPMENT/DIFFUSERS ETC WILL FIT (WITH PROPER MAINTENANCE CLEARANCES) AT ALL LOCATIONS. REVIEW OF SHOP DRAWINGS/SUBMITTALS BY THE ARCH/ENGR DOES NOT RELIEVE THE CONTRACTOR FROM PROVIDING THE CURRENT MODEL NUMBERS, TYPE, & FEATURES OF ALL EQUIPMENT'S & MATERIALS.
16. CONTRACTOR SHALL PROVIDE THE OWNER AND ARCHITECT WITH CERTIFICATES OF INSURANCE PRIOR TO STARTING THE WORK.
17. CONTRACTOR SHALL BE RESPONSIBLE FOR SHORING AND BRACING OF EXISTING STRUCTURES AS NEEDED TO COMPLETE THE NEW WORK.
18. ALL MANUFACTURER'S MATERIALS, COMPONENTS, FASTENERS, ASSEMBLIES, ETC. SHALL BE HANDLED AND INSTALLED IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS AND RECOMMENDATIONS. WHERE BRAND NAMES AND MANUFACTURED PRODUCTS ARE CALLED FOR, APPROVED EQUALS WHICH MEET APPLICABLE STANDARDS AND SPECIFICATIONS MAY BE SUBSTITUTED WITH WRITTEN PERMISSION OF THE ARCHITECT AND THE OWNER. WHENEVER BRAND NAMES OR SPECIFIC PRODUCT SYSTEMS ARE INDICATED IT SHALL BE CLEARLY UNDERSTOOD THAT SUCH IDENTIFICATION IS FOR THE PURPOSE OF ILLUSTRATING THE TYPE OF PRODUCT AND DEGREE OF QUALITY DESIRED. SUCH IDENTIFICATION IN NO WAY PRECLUDES THE CONTRACTOR FROM USING PRODUCTS OF OTHER MANUFACTURERS WHICH CAN BE SHOWN IN ADVANCE TO BE OF LIKE AND OF EQUAL OR BETTER QUALITY.
19. ALL CHANGES SHALL BE REQUESTED IN WRITING AND MAY ONLY BE APPROVED IN WRITING BY THE ARCHITECT/ENGINEER AND THE OWNER PRIOR TO ANY CHANGES BEING MADE.
20. THE ARCHITECT HAS THE RIGHT TO REJECT ANY PORTION OF WORK THAT IS POORLY INSTALLED, DOES NOT MEET INDUSTRY STANDARD, UNAUTHORIZED, OR WORK DONE CONTRARY TO THE INTENT OF THE CONTRACT DOCUMENTS. SUCH WORK SHALL BE REPLACED, REPAIRED OR REMOVED AT THE CONTRACTOR'S EXPENSE.
21. CONTRACTOR SHALL GUARANTEE ALL HIS WORK AND THE WORK OF HIS SUBCONTRACTORS FOR A PERIOD TWO (2) YEARS AFTER RECEIVING FINAL ACCEPTANCE AND DO ALL REPAIR WORK AND REPLACEMENT AS NECESSARY DURING THAT PERIOD AT THE CONTRACTOR'S EXPENSE.
22. IN NO EVENT SHALL STRUCTURAL MEMBERS BE CUT OR DRILLED WITHOUT THE WRITTEN APPROVAL OF A LICENSED STRUCTURAL ENGINEER.
23. CONTRACTOR SHALL PROVIDE SAFE AND SANITARY CONDITIONS WHERE DEMOLITION AND WRECKING OPERATIONS ARE BEING CARRIED ON. WORK SHALL BE EXECUTED IN SUCH A MANNER THAT HAZARD FROM FIRE, POSSIBILITY OF INJURY, DANGER TO HEALTH AND CONDITIONS WHICH MAY CONSTITUTE A PUBLIC NUISANCE SHALL BE MINIMIZED.
24. ENGINEER/OWNER MAY ASK THE CONTRACTOR TO PROVIDE DETAILED SHOP DRAWINGS & SUBMITTALS OF ANY/ALL PARTS OF THIS PROJECT WHICH THE ENGINEER/OWNER DEEMS NECESSARY FOR.

H.V.A.C. MATERIALS

EQUIPMENT:

- REFER TO SCHEDULES FOR UNIT MANUFACTURER, SIZE, AND CAPACITY DATA.

DUCTWORK:

- INDOOR SUPPLY, RETURN AND EXHAUST DUCTWORK, EXCEPT AS INDICATED BELOW, SHALL BE GALVANIZED STEEL CONSTRUCTION. WEIGHTS AND CONSTRUCTION DETAIL SHALL BE IN ACCORDANCE WITH THE LATEST ASHRAE GUIDE AND/OR SMACNA STANDARDS.
- SHOWER AREAS EXHAUST AND OUTDOOR AIR INTAKE DUCTWORK SHALL BE ALUMINUM CONSTRUCTION, CLASS "A" SEALED.
- FLEXIBLE DUCTWORK: SHALL NOT EXCEED FOUR (4) FEET IN LENGTH. FOR ANY HORIZONTAL FLEX DUCT BRANCH TO A CEILING DIFFUSER, FURNISH A 90° BRACE TO MAINTAIN A LONG RADIUS ELBOW TO THE DIFFUSER ("TITUS" MAKE, MODEL "FLEXRIGHT").
- FIRE DAMPER: GREENHECK MAKE, MODEL FD-150 TYPE B (BLADES OUT OF AIRSTREAM), 1-1/2 HOUR RATED (UNLESS OTHERWISE NOTED) UL-555 LABELED DAMPER WITH STANDARD FRAME OR APPROVED EQUAL. PROVIDE WITH A RETAINING ANGLE AND AN ACCESS DOOR.

PIPING:

- HOT/CHILLED WATER PIPING: SHALL BE HARD COPPER TYPE "L". WITH WROUGHT COPPER SOLDER FITTINGS (3" OR UNDER). SCHEDULE 40 BLACK STEEL WITH WELDED FITTINGS (4" OR OVER).

INSULATION:

- THE COMBINED R-VALUE FOR A SECTION OF INSULATED/LINED/ OR LINED AND INSULATED DUCT MUST COMPLY WITH THE STANDARDS SET FORTH IN ASHRAE 90.1.
- EXTERNAL DUCT INSULATION: 1.5" THICK, MIN. 1.5 LB. DENSITY FLEXIBLE FIBERGLASS DUCT INSULATION WITH REINFORCED FOIL FACED FLAME RESISTANT KRAFT VAPOR BARRIER, ADHERED TO DUCT W/ SEALED LAPS AND TAPED JOINTS.
- INTERNALLY LINED DUCT: 1" THICK, MIN. 1.0 LB. DENSITY RIGID INSULATION ADHERED TO DUCT. DUCTS WIDER THAN 12" TO HAVE WELDED PINS AND WASHERS. DUCT DIMENSIONS AS INDICATED ARE CLEAR INSIDE DUCT DIMENSIONS.
  NOTES:
  1. ALL SUPPLY & RETURN AIR DUCTWORK SHALL BE INTERNALLY LINED FOR A MIN. OF 25' TO AND FROM ANY RTU, AHU, OR FAN BEARING EQUIPMENT IRRESPECTIVE OF WHETHER THE EQUIPMENT IS NEW OR EXISTING.
  2. ALL SUPPLY AIR DUCTWORK SHALL BE INTERNALLY LINED FOR A MINIMUM OF 15' DOWNSTREAM OF ALL VAV BOXES.
- DUCT INSULATION NOTE: PROVIDE A MINIMUM 6" OVERLAP WHERE INTERNAL INSULATION ENDS AND EXTERNAL INSULATION BEGINS.
- FRESH AIR INTAKE AND EXPOSED DUCT: 1.5" THICK, MIN. 2 LB. DENSITY RIGID FIBERGLASS DUCT INSULATION WITH FOIL FACING VAPOR BARRIER FASTENED WITH WELDED CLIPS, CEMENTED JOINTS WITH ALUMINUM TAPE.
- CHW/HW/CD PIPES SHOULD BE INSULATED WITH FIBERGLASS PIPE INSULATION WITH FACTORY APPLIED ASJ JACKET. INSTALL WITH APPROVED ADHESIVE AND STAPLES. REFER TO SPECIFICATIONS FOR INSULATION THICKNESS.

AIR DEVICES:

1. ALL CEILING DIFFUSERS LOCATED IN ACQUSTIC CEILING GRID SHALL BE PROVIDED WITH FRAME TYPE FOR GRID MOUNTING. IF THE TILE IS SMALLER THAN TILE SIZE, THE DIFFUSER SHALL BE PROVIDED WITH FRAME TYPE FOR CEILING TYPE.
2. ALL CEILING DIFFUSERS LOCATED IN GYPSUM BOARD AND/OR CONCEALED SPLINE CEILINGS SHALL BE PROVIDED WITH FRAME TYPE FOR SURFACE MOUNTING
3. PROVIDE FACTORY INSTALLED 90° BLANK-OFF PLATE(S) IN ALL 2 AND 3 WAY DIFFUSERS.
4. COLOR OF AIR OUTLETS/INLETS SHALL MATCH THE CEILING COLOR.
5. ALL AIR OUTLETS/INLETS TOILETS, CORRIDORS, AND KITCHEN SHALL BE ALUMINUM CONSTRUCTION

ACCESS DOORS

- FURNISH AND INSTALL ACCESS DOORS AT ALL LOCATIONS WHERE VALVES, DAMPERS, CONTROLS, VENTS, DRAINS, ETC. ARE TO BE INSTALLED ABOVE OR BEHIND ANY INACCESSIBLE SURFACE (GYPSUM BOARD, CMU, ETC.), IRRESPECTIVE OF WHETHER THEY ARE INDICATED ON ALL DRAWINGS OR NOT. ACCESS DOORS SHALL BE A SUITABLE SIZE TO MAINTAIN, OPERATE, REPAIR, AND REPLACE ALL EQUIPMENT. ACCESS DOORS SHALL BE FACTORY PRIMED AND PAINTED TO MATCH THE SURFACE IN WHICH THEY ARE INSTALLED.

VALVES:

- ISOLATION VALVES: SHALL BE BALL VALVES
- BALANCING VALVES: SHALL BE GLOBE VALVES.
- NOTE: NO BUTTERFLY VALVES ARE TO BE USED ON THIS PROJECT.
- MANUFACTURERS:
  1. TYPE I, CAST-IRON, GATE VALVES:

a. CINCINNATI VALVE CO.
b. CRANE CO.; CRANE VALVE GROUP; CRANE VALVES.
c. CRANE CO.; CRANE VALVE GROUP; JENKINS VALVES.
d. CRANE CO.; CRANE VALVE GROUP; STOCKHAM DIV.
e. GRINNELL CORPORATION.
f. HAMMOND VALVE.
g. KITZ CORPORATION OF AMERICA.
h. MILWAUKEE VALVE COMPANY
i. NIBCO INC.
j. POWELL, WM. CO.
k. RED-WHITE VALVE CORP.
l. WALWORTH CO.
m. WATTS INDUSTRIES, INC.

- CLASS 125, OS&Y, BRONZE-MOUNTED, CAST-IRON GATE VALVES: CAST-IRON BODY WITH BRONZE TRIM, RISING STEM, AND SOLID-WEDGE DISC.
- INSTALL CHAINWHEEL OPERATORS ON VALVES NPS 4 AND LARGER AND MORE THAN 96 INCHES ABOVE FLOOR. EXTEND CHAINS TO 60 INCHES ABOVE FINISHED FLOOR ELEVATION.

SYMBOLS

NOT TO SCALE

- = SUPPLY AIR CEILING DIFFUSER (SAD) WITH NECK SIZE AND CFM INDICATED ON PLANS
- = 3-WAY SUPPLY AIR CEILING DIFFUSER (SAD) WITH NECK SIZE AND CFM INDICATED ON PLANS.
- = 2-WAY SUPPLY AIR CEILING DIFFUSER (SAD) WITH NECK SIZE AND CFM INDICATED ON PLANS.
- = RETURN AIR REGISTER (RAR) WITH NECK SIZE AND CFM INDICATED ON PLANS
- = EXHAUST AIR REGISTER (EAR); GRAVITY RELIEF GRILLE (GRG) WITH NECK SIZE AND CFM INDICATED ON PLANS
- = SUPPLY AIR WALL REGISTER/GRILLE (SAR) WITH NECK SIZE AND CFM INDICATED ON PLANS
- = RETURN AIR WALL REGISTER (RAR) WITH NECK SIZE AND CFM INDICATED ON PLAN
- = POINT OF CONNECTION OF NEW PIPING/DUCTWORK TO EXISTING
- = POINT OF DISCONNECTION OF NEW PIPING/DUCTWORK TO EXISTING
- = INDICATES HARD DUCT WITH INTERNAL LINING (DIMENSIONS ARE INSIDE CLEAR WIDTH & DEPTH)
- = INDICATES HARD DUCT (DIMENSIONS ARE INSIDE CLEAR WIDTH & DEPTH)
- = INDICATES FLEXIBLE DUCT (DIMENSIONS ARE INSIDE CLEAR DIAMETER; LENGTH NOT TO EXCEED FOUR (4) FEET
- = DUCT TURN UP (SUPPLY, RETURN, EXHAUST)
- = DUCT TURN DOWN (SUPPLY, RETURN, EXHAUST)

- FD/AD = FIRE DAMPER WITH ACCESS DOOR
- FSD/AD = FIRE/SMOKE DAMPER WITH ACCESS DOOR
- VD = VOLUME DAMPER
- BDD = BACK DRAFT DAMPER
- M = MOTORIZED DAMPER
- T = INDICATES NEW WALL MOUNTED THERMOSTAT.
- CO_2 = CO_2 SENSOR
- = INDICATES EXISTING TO BE REMOVED
- = 6" HIGH CONCRETE HOUSEKEEPING PAD (TYP. FOR ALL FLOOR MOUNTED EQUIPMENT)
- NORTH = PROJECT NORTH
- CLOSET 101 = ROOM NAME / ROOM NUMBER
- # = REVISION
- U = UNDERCUT DOOR (1/2 INCH)

NJ Certificate of Authorization

Engr. Nos.	24GA27937500
Arch. Nos.	21AC00012400
Date	11/3/26
Checked	MM
Drawn	JZ

MICHAEL G. MIERKOWSKI, P.E.
Title PROFESSIONAL ENGINEER License No. 24GE05063600

Revisions:

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1018 Laurel Oak Road, Suite 11, Voorhees, NJ 08043 ▌t. 856-375-2701

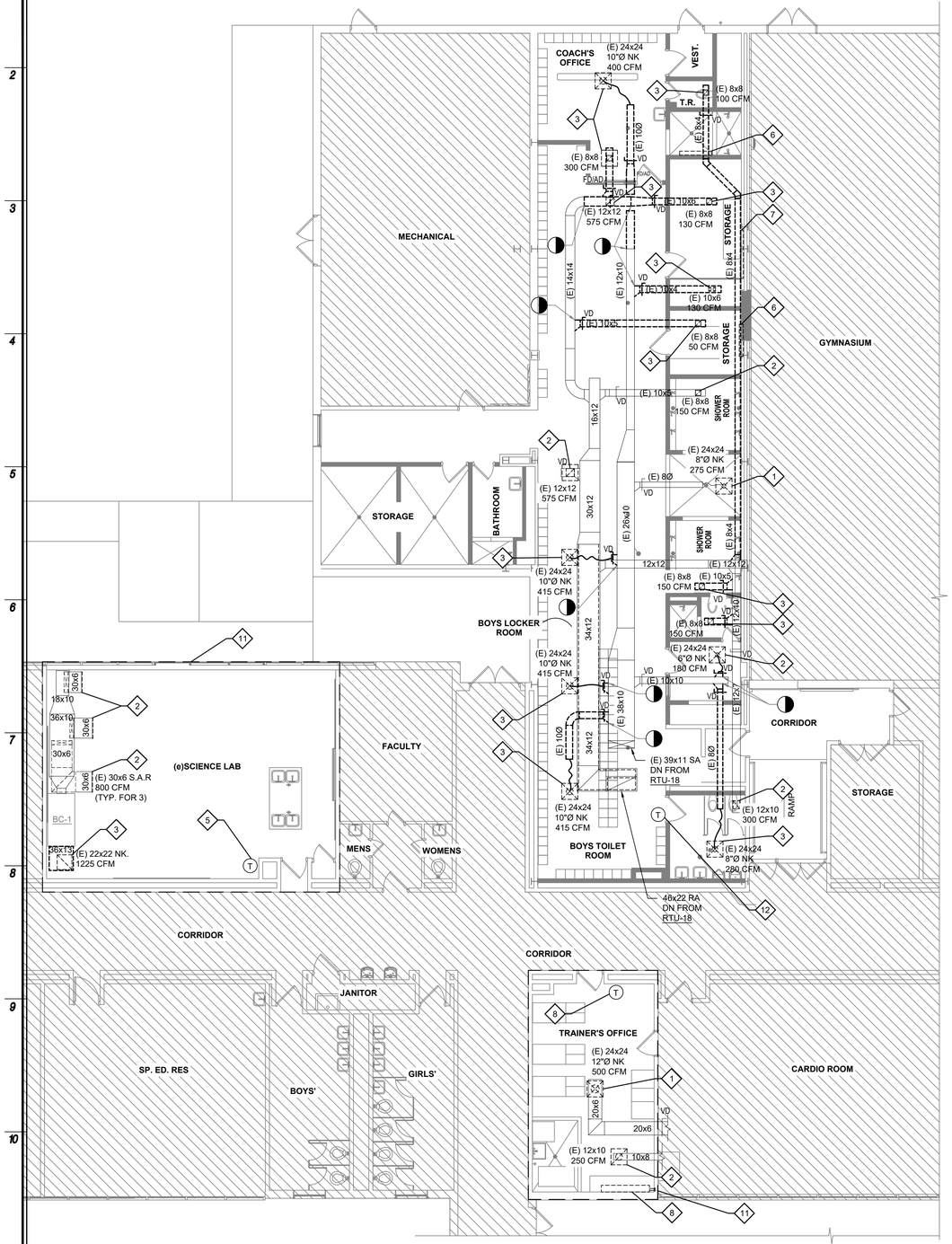
MECHANICAL SYMBOLS & ABBREVIATIONS

HIGH SCHOOL LOCKER ROOM INTERIOR ALTERATIONS
GLOUCESTER CITY BOE
1300 MARKET STREET, GLOUCESTER CITY NJ, 08030

Job No. 2.20457.20
File No. 2045720 M0.01

State Project#: 07-1770-050-XX-XXXX

M0.01



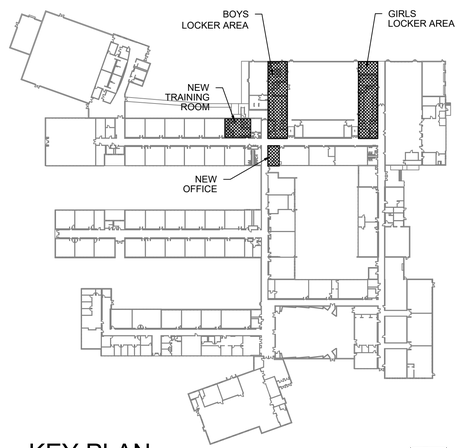
MECHANICAL DEMOLITION PLAN

1-S / M1.01

1/8" = 1'-0"

ITEM #	MECHANICAL DEMOLITION KEY NOTES
1	THE EXISTING DIFFUSER/GRILLE IN THIS AREA SHALL BE REMOVED. THE ASSOCIATED DUCTWORK SHALL REMAIN AND THE FLEX DUCTWORK SHALL BE SECURED AND PROTECTED THROUGHOUT DEMOLITION AND CONSTRUCTION. REFER TO SHEET M2.01 FOR FLEX DUCTWORK RECONNECTION DETAILS.
2	THE EXISTING DIFFUSER/GRILLE IN THIS AREA SHALL BE REMOVED. THE HARD DUCT CONNECTION SHALL BE DISCONNECTED FROM THE DIFFUSER AND PROVIDED WITH A PROTECTIVE COVER. THE ASSOCIATED DUCTWORK SHALL REMAIN AND BE PROTECTED THROUGHOUT DEMOLITION AND CONSTRUCTION. REFER TO SHEET M2.01 FOR HARD DUCT RECONNECTION DETAILS.
3	THE EXISTING DIFFUSER/GRILLE AND ITS ASSOCIATED DUCTWORK SHALL BE DEMOLISHED UP TO THE LOCATION SHOWN. ALL VOLUME/FIRE DAMPERS IN THIS RUN SHALL BE DEMOLISHED IN THEIR ENTIRETY. ANY ASSOCIATED POWER OR CONTROL WIRING FOR ANY DEVICES DEMOLISHED SHALL BE DEMOLISHED IN ITS ENTIRETY. THE DUCT MAIN SHALL BE PATCHED TO BE AIRTIGHT.
4	THE EXISTING DIFFUSER IN THIS AREA SHALL BE REMOVED. THE ASSOCIATED FLEX DUCTWORK SHALL BE DEMOLISHED IN ITS ENTIRETY. THE EXISTING HARD DUCT SHALL BE PROVIDED WITH A PROTECTIVE COVER AND BE PROTECTED THROUGHOUT DEMOLITION AND CONSTRUCTION. REFER TO SHEET M2.01 FOR DUCTWORK RECONNECTION DETAILS.
5	EXISTING THERMOSTAT TO BE PROTECTED THROUGHOUT DEMOLITION AND CONSTRUCTION.
6	EXISTING HOT WATER FINNED TUBE RADIATOR TO BE DEMOLISHED IN ITS ENTIRETY. THE EXISTING HOT WATER CONNECTIONS (IF PRESENT) SHALL BE DEMOLISHED BACK TO THE NEAREST ACCESSIBLE ISOLATION VALVE. IF THERE IS NOT ONE EASILY ACCESSIBLE WITHIN 10' OF THE UNIT. CONTRACTOR TO DEMOLISH THE HOT WATER PIPING BACK TO THE NEAREST WALL/CEILING AND PROVIDE AN ISOLATION VALVE AT THE WALL. THE PIPING SHALL BE CAPPED AT THIS LOCATION. CONTRACTOR IS RESPONSIBLE FOR COORDINATING SHUT DOWNS TO THE HOT WATER SYSTEMS AS NECESSARY OR TO PROVIDE A BLOCKAGE OF FLOW VIA LINE STOP AS NEEDED PRIOR TO DEMOLITION.
7	EXISTING HOT WATER CABINET RADIATOR TO BE DEMOLISHED IN ITS ENTIRETY. THE EXISTING HOT WATER CONNECTIONS (IF PRESENT) SHALL BE DEMOLISHED BACK TO THE NEAREST ACCESSIBLE ISOLATION VALVE. IF THERE IS NOT ONE EASILY ACCESSIBLE WITHIN 10' OF THE UNIT. CONTRACTOR TO DEMOLISH THE HOT WATER PIPING BACK TO THE NEAREST WALL/CEILING AND PROVIDE AN ISOLATION VALVE AT THE WALL. THE PIPING SHALL BE CAPPED AT THIS LOCATION. CONTRACTOR IS RESPONSIBLE FOR COORDINATING SHUT DOWNS TO THE HOT WATER SYSTEMS AS NECESSARY OR TO PROVIDE A BLOCKAGE OF FLOW VIA LINE STOP AS NEEDED PRIOR TO DEMOLITION.
8	EXISTING HOT WATER UNIT VENTILATOR TO BE DEMOLISHED IN ITS ENTIRETY. THE EXISTING HOT WATER CONNECTIONS SHALL BE DEMOLISHED BACK TO THE NEAREST ACCESSIBLE ISOLATION VALVE ABOVE THE CEILING. IF THERE IS NOT ONE EASILY ACCESSIBLE ABOVE THE CEILING CONTRACTOR SHALL DEMOLISH THE HOT WATER PIPING TO A POINT 12" ABOVE THE DROP CEILING AND PROVIDE AN ISOLATION VALVE. THE PIPING SHALL BE CAPPED AT THIS LOCATION. CONTRACTOR IS RESPONSIBLE FOR COORDINATING SHUT DOWNS TO THE HOT WATER SYSTEMS AS NECESSARY OR TO PROVIDE A BLOCKAGE OF FLOW VIA LINE STOP AS NEEDED PRIOR TO DEMOLITION. THE EXISTING THERMOSTAT SERVING THE UV AND ALL ASSOCIATED CONTROL WIRING SHALL BE DEMOLISHED IN ITS ENTIRETY.
9	EXISTING EXHAUST GRILLE TO BE DEMOLISHED IN ITS ENTIRETY. THE DUCTWORK SHALL BE DEMOLISHED BACK SO THAT IT DOES NOT INTERFERE WITH NEW WALL CONSTRUCTION IN THIS AREA AND BE CAPPED.
10	EXISTING EXHAUST GRILLE TO BE DEMOLISHED IN ITS ENTIRETY. THE EXISTING DUCT RISER SHALL BE DEMOLISHED BACK SO IT DOES NOT INTERFERE WITH THE NEW WALLS OR WALL FRAMING AND BE CAPPED ABOVE THE NEW CEILING ELEVATION IN THIS AREA.
11	ALL WORK DESIGNATED IN THIS REGION SHALL BE PERFORMED ONLY IF THE ADD ALTERNATE IS ACCEPTED.
12	EXISTING WALL MOUNTED TEMPERATURE AND HUMIDITY SENSORS TO BE TEMPORARILY DISCONNECTED AND RELOCATED TO A NEW WALL IN THE OPEN LOCKER ROOM SPACE. DEVICES TO BE PROTECTED THROUGHOUT DEMOLITION AND CONSTRUCTION.

NOTE	MECHANICAL GENERAL NOTES
1	SIZES AND LOCATIONS OF EXISTING MECHANICAL EQUIPMENT, DUCTWORK, AIR INLETS / OUTLETS, ETC. SHOWN ON DRAWINGS ARE BASED ON EXISTING DRAWINGS AND SITE OBSERVATIONS AND THEY ARE APPROXIMATE. SOME DUCT ROUTING COULD BE DIFFERENT FROM THAT AS SHOWN. CONTRACTOR IS RESPONSIBLE TO VERIFY EXACT SIZES AND LOCATIONS IN FIELD .
2	NOT ALL EXISTING MECHANICAL EQUIPMENT, DUCTWORK, DAMPERS, PIPING, AIR INLETS / OUTLETS, VALVES, UTILITIES, ETC. ARE SHOWN ON DRAWINGS. VERIFY IN FIELD.
3	CONTRACTOR IS RESPONSIBLE TO TEMPORARILY REMOVE EXISTING SUSPENDED CEILING SYSTEM, GRIDS AND TILES TO ACCOMMODATE DEMOLITION AND NEW WORK AND REINSTALL TO MATCH EXISTING. REMOVE AND REPLACE ALL DAMAGED TILES AND GRIDS AND PROVIDE EXISTING CEILING OPENINGS WITH NEW TILES AND GRIDS IN EXISTING SUSPENDED CEILING SYSTEM. MODEL AND STYLE OF NEW SHALL MATCH EXISTING.
4	CONTRACTOR IS RESPONSIBLE TO TEMPORARILY REMOVE / RELOCATE EXISTING LIGHT FIXTURES, ELECTRICAL DEVICES, CO SENSORS, CO2 SENSORS, THERMOSTATS, FIRE ALARM AND COMMUNICATION DEVICES, ETC. FROM THE CEILINGS AND WALLS AS NEEDED TO ACCOMMODATE DEMOLITION AND NEW WORK AND REINSTALL TO MATCH EXISTING. CHECK IN FIELD. ALL DEVICES SHALL BE PROTECTED THROUGHOUT DEMOLITION AND CONSTRUCTION. ALL REINSTALLED DEVICES SHALL COMPLY WITH ADA MOUNTING REQUIREMENTS WHEN APPLICABLE.
5	CONTRACTOR TO NOTE THAT ROOM NAMES / NUMBERS SHOWN ARE FOR REFERENCE ONLY AND THEY MAY VARY IN FIELD.
6	CONTRACTOR IS REQUIRED TO PROPERLY PROTECT EXISTING FLOORS, WALLS, FURNITURE, EQUIPMENT, ETC. DURING DEMOLITION. ALL DAMAGED ITEMS SHALL BE REPAIRED / REPLACED AT EXPENSE OF THE CONTRACTOR. REMOVE PROTECTIONS AFTER ALL WORK IS COMPLETE AND VACUUM CLEAN ALL AREAS TO BE FREE OF DUST AND DEBRIS.
7	ANY SERVICES NOT EXPLICITLY CALLED OUT TO BE DEMOLISHED SHALL BE PROTECTED THROUGHOUT DEMOLITION AND CONSTRUCTION.
8	WHERE REQUIRED, CONTRACTOR IS RESPONSIBLE FOR CUTTING OPEN HARD CEILINGS TO ACCOMMODATE DEMOLITION AND NEW WORK.
9	CONTRACTOR SHALL PATCH ALL OPENINGS ON WALLS, FLOORS, CEILINGS, ROOFS, AND ROOF DECKS AFTER EXISTING DUCTWORK, CONDUIT, ETC. ARE REMOVED. INFILL AND PATCH WITH SUITABLE MATERIALS TO MAINTAIN FIRE RATING WHERE APPLICABLE AND PAINT TO MATCH EXISTING.
10	ALL EXISTING CONTROLS AND RELATED WIRING AND CONDUITS, ETC. WHICH BECOME OBSOLETE, WHETHER OR NOT SHOWN ON DRAWINGS SHALL BE REMOVED. PATCH WALLS, ETC. AND PAINT TO MATCH EXISTING.
11	CONTRACTOR SHALL PATCH DUCTWORK WHEREVER EXISTING DUCTWORK IS DEMOLISHED/CUT AND NO NEW DUCTWORK IS BEING INSTALLED/RECONNECTED.



KEY PLAN

N.T.S.

State Project#: 07-1770-050-XX-XXXX

NJ Certificate of Authorization	
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Revisions:

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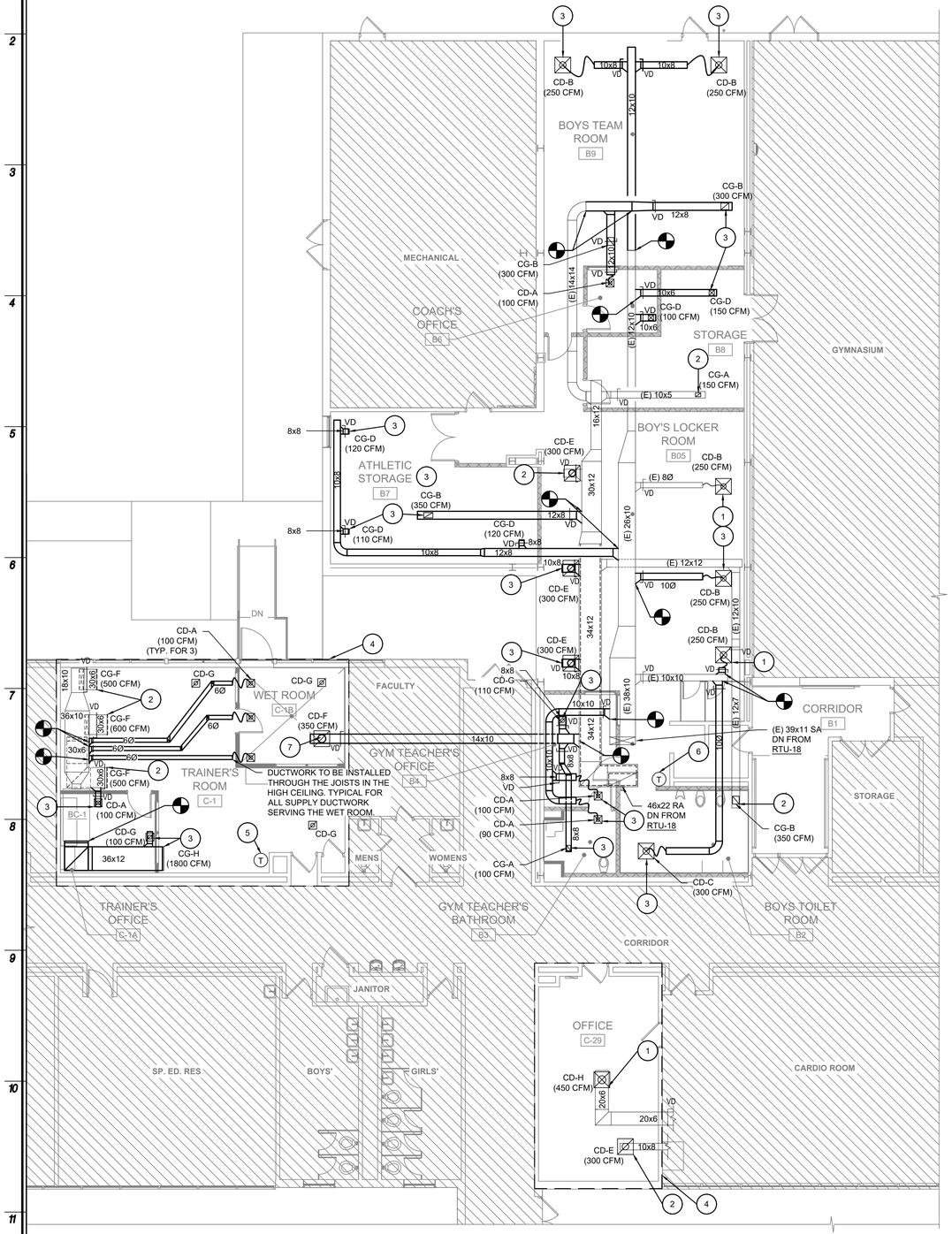
MECHANICAL DEMOLITION PLANS

HIGH SCHOOL LOCKER ROOM INTERIOR ALTERATIONS
GLOUCESTER CITY BOE
1300 MARKET STREET, GLOUCESTER CITY NJ, 08030

Job No. 2.20457.20

File No. 2045720 M1.01

M1.01



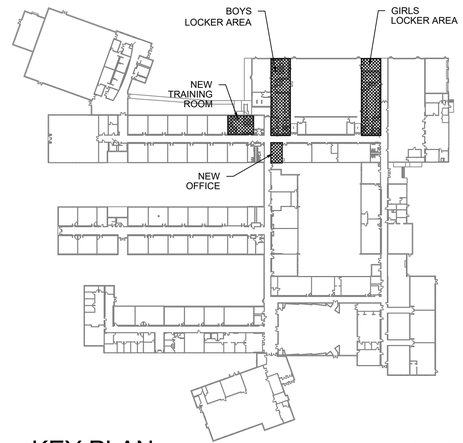
1-S
M2.01

MECHANICAL NEW WORK PLAN

1/8" = 1'-0"

ITEM #	MECHANICAL CONSTRUCTION KEY NOTES
1	CONTRACTOR TO FURNISH AND INSTALL A NEW SUPPLY DIFFUSER AS SHOWN. THE EXISTING FLEX DUCT SHALL BE RECONNECTED TO THE NEW DIFFUSER AS INDICATED. THE AIRFLOW TO THIS DIFFUSER SHALL BE REBALANCED TO THE CFM VALUE INDICATED ON THIS PLAN.
2	CONTRACTOR TO FURNISH AND INSTALL A NEW RETURN GRILL AS SHOWN. THE EXISTING HARD DUCT SHALL BE EXTENDED AND CONNECTED TO THE NEW DIFFUSER AS INDICATED. THE AIRFLOW TO THIS DIFFUSER SHALL BE REBALANCED TO THE CFM VALUE INDICATED ON THIS PLAN.
3	CONTRACTOR TO FURNISH AND INSTALL A NEW DIFFUSER AND ASSOCIATED DUCTWORK AS SHOWN. DUCTWORK SHALL BE PROVIDED WITH A NEW VOLUME DAMPER AS INDICATED.
4	ALL WORK DESIGNATED IN THIS REGION SHALL BE PERFORMED ONLY IF THE ADD ALTERNATE IS ACCEPTED.
5	EXISTING THERMOSTAT TO BE CLEANED OF ANY DUST/DEBRIS PRIOR TO SPACE TURNOVER.
6	WALL MOUNTED TEMPERATURE AND HUMIDITY SENSORS TO BE RELOCATED TO THE WALL IN THIS LOCATION. CONTRACTOR TO INSTALL SENSORS TIGHT TO THE CEILING SIMILAR TO THE EXISTING CONDITIONS. DEVICES TO BE THROUGHLY CLEANED PRIOR TO SPACE TURNOVER.
7	THIS RETURN DUCT SHALL BE EXTENDED INTO THE WET ROOM ONLY IF THE ADD ALTERNATE SURROUNDING THE TRAINERS ROOM IS ACCEPTED.

NOTE	MECHANICAL GENERAL NOTES
1	SIZES AND LOCATIONS OF EXISTING MECHANICAL EQUIPMENT, DUCTWORK, AIR INLETS / OUTLETS, ETC. SHOWN ON DRAWINGS ARE BASED ON EXISTING DRAWINGS AND SITE OBSERVATIONS AND THEY ARE APPROXIMATE. SOME DUCT ROUTING COULD BE DIFFERENT FROM THAT AS SHOWN. CONTRACTOR IS RESPONSIBLE TO VERIFY EXACT SIZES AND LOCATIONS IN FIELD .
2	NOT ALL EXISTING MECHANICAL EQUIPMENT, DUCTWORK, DAMPERS, PIPING, AIR INLETS / OUTLETS, VALVES, UTILITIES, ETC. ARE SHOWN ON DRAWINGS. VERIFY IN FIELD.
3	CONTRACTOR IS RESPONSIBLE TO TEMPORARILY REMOVE EXISTING SUSPENDED CEILING SYSTEM, GRIDS AND TILES TO ACCOMMODATE DEMOLITION AND NEW WORK AND REINSTALL TO MATCH EXISTING. REMOVE AND REPLACE ALL DAMAGED TILES AND GRIDS AND PROVIDE EXISTING CEILING OPENINGS WITH NEW TILES AND GRIDS IN EXISTING SUSPENDED CEILING SYSTEM. MODEL AND STYLE OF NEW SHALL MATCH EXISTING.
4	CONTRACTOR IS RESPONSIBLE TO TEMPORARILY REMOVE / RELOCATE EXISTING LIGHT FIXTURES, ELECTRICAL DEVICES, FIRE ALARM AND COMMUNICATION DEVICES, ETC. TO ACCOMMODATE DEMOLITION AND NEW WORK AND REINSTALL TO MATCH EXISTING. CHECK IN FIELD.
5	SAWCUT AND CORE DRILL EXISTING WALLS / FLOORS / CEILINGS / ROOF FOR NEW DUCTWORK / PIPING / CONDUIT / PENETRATIONS. PATCH AND CAULK WITH 2-HR RATED FIRESTOPPING MATERIALS & SEAL AIR-TIGHT AND WATER-TIGHT.
6	ANY CUTTING, PATCHING, OR FINISH REPAIR WORK REQUIRED FOR MECHANICAL INSTALLATION IS THE RESPONSIBILITY OF THE CONTRACTOR.
7	CONTRACTOR TO NOTE THAT ROOM NAMES / NUMBERS SHOWN ARE FOR REFERENCE ONLY AND THEY MAY VARY IN FIELD.
8	CONTRACTOR IS REQUIRED TO PROPERLY PROTECT EXISTING FLOORS, WALLS, FURNITURE, EQUIPMENT, ETC. DURING CONSTRUCTION. ALL DAMAGED ITEMS SHALL BE REPAIRED / REPLACED AT EXPENSE OF THE CONTRACTOR. REMOVE PROTECTIONS AFTER ALL WORK IS COMPLETE AND VACUUM CLEAN ALL AREAS TO BE FREE OF DUST AND DEBRIS.
9	ALL NEW SUPPLY AND RETURN BRANCHES SERVING AN AIR OUTLET SHALL BE PROVIDED WITH A VOLUME DAMPER.
10	ALL WALL/CEILING MOUNTED CO/CO2 DEVICES SHALL REMAIN CONNECTED, PROTECTED, AND STORED SAFELY IN THE SPACE THAT THEY SERVE DURING DEMOLITION AND CONSTRUCTION. CONTRACTOR TO RELOCATE THESE DEVICES IN A SIMILAR LOCATION AFTER THE NEW WALLS/CEILINGS ARE INSTALLED. ALL DEVISES SHALL COMPLY WITH ADA MOUNTING REQUIREMENTS WHEN APPLICABLE.



KEY PLAN

N.T.S.

State Project#: 07-1770-050-XX-XXXX

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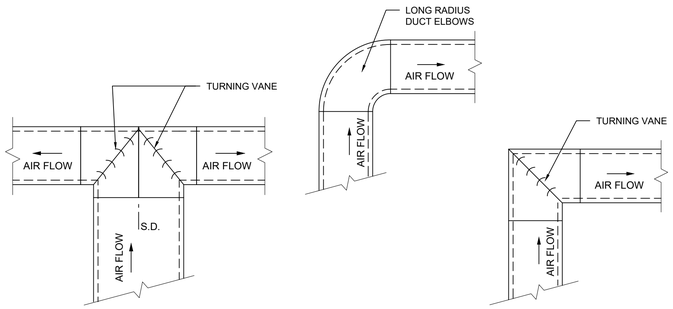
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MECHANICAL NEW WORK PLANS

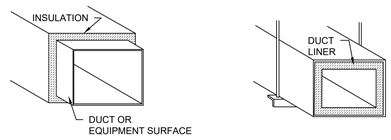
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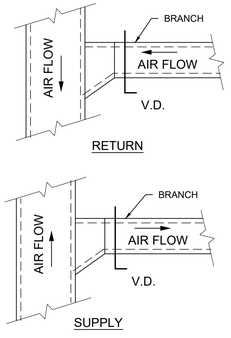
1 DUCT TURN DETAIL
N.T.S.



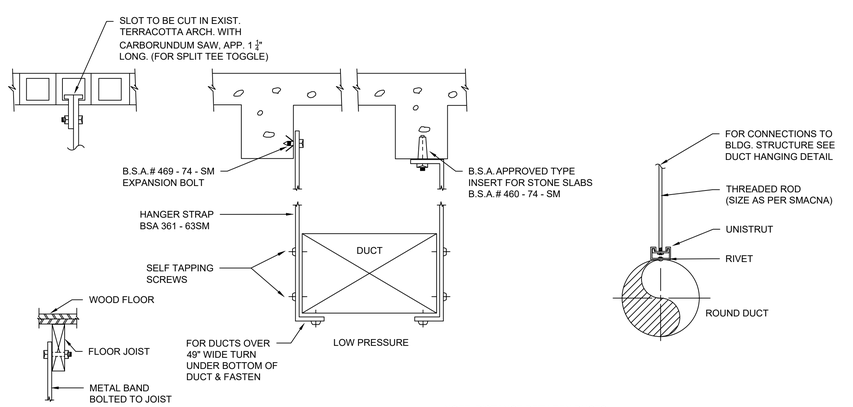
DB EXTERNAL DUCT INSULATION: BLANKET TYPE: BLANKET TYPE LIGHT DENSITY GLASS FIBER INSULATION WITH REINFORCED ALUMINUM FOIL VAPOR BARRIER FACING.

DA DUCT LINER: GLASS FIBER DUCT LINER, 2LB/CU FT DENSITY; THICKNESS 1 IN.; COATED WITH IAQ LINER

2 DUCT INSULATION DETAILS
N.T.S.

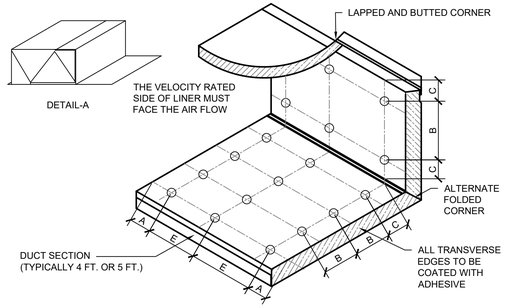


4 DUCT / DIFFUSER TAKE-OFF DETAIL
N.T.S.



NOTE: DISTANCE BETWEEN DUCTS HANGERS SHALL BE IN ACCORDANCE WITH SMACNA

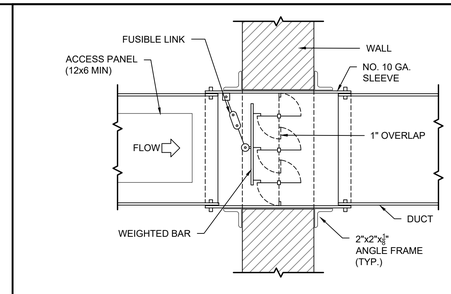
3 DUCT HANGING DETAILS
N.T.S.



VELOCITY*	DIMENSIONS			
	A	B	C	E
0-2500 FPM	3"	12"	4"	12"

LINER SHALL BE ADHERED TO THE DUCT WITH 90% MIN. AREA COVERAGE OF ADHESIVE

5 FLEXIBLE DUCT LINER INSULATION DETAIL
N.T.S.



6 FIRE DAMPER IN WALL DETAIL
N.T.S.

DIFFUSER SCHEDULE

(TITUS AS STANDARD)

TAG	SYSTEM	MANUFACTURER	MODEL NO.	AIRFLOW RANGE	FACE SIZE	NECK SIZE	MAX NC RATING	NOTES
				(CFM)	(IN.)	(IN.)		
CG-A	RETURN	TITUS	350 RL	0-150	8x6	SEE PLANS	<15	
CG-B	RETURN	TITUS	350 RL	0-350	12x10	SEE PLANS	11	
CG-C	RETURN	TITUS	350 RL	0-1000	30x12	SEE PLANS	<15	
CG-D	SUPPLY	TITUS	300 RL	0-200	8x8	8x8	16	
CG-E	SUPPLY	TITUS	300 RL	0-400	10x10	10x10	25	
CG-F	SUPPLY	TITUS	300 RL	0-700	30x12	30x12	25	
CG-H	RETURN	TITUS	350 RL	0-2000	36x12	36x12	30	
CD-A	SUPPLY	TITUS	TMS	0-150	12x12	6" ROUND	<15	
CD-B	SUPPLY	TITUS	TMS	0-250	24x24	8" ROUND	23	
CD-C	SUPPLY	TITUS	TMS	0-400	24x24	10" ROUND	21	
CD-D	RETURN	TITUS	PAR	0-200	24x24	8" ROUND	16	
CD-E	RETURN	TITUS	PAR	0-300	24x24	10" ROUND	16	
CD-F	RETURN	TITUS	PAR	0-500	24x24	12" ROUND	24	
CD-G	RETURN	TITUS	PAR	0-150	12x12	6" ROUND	20	
CD-H	SUPPLY	TITUS	TMS	0-500	24x24	12" ROUND	19	

NOTES:
1. CONTRACTOR SHALL VERIFY ALL NEW/EXISTING CEILING TYPES AS NEEDED AS WELL AS GRID DIMENSIONS AND FINISHES PRIOR TO ORDERING ANY AIR DISTRIBUTION DEVICES. CONFIRM FINISHES AND LAY IN TYPES WITH ENGINEER/ARCHITECT PRIOR TO ORDERING ANY DEVICES.
2. ALL VISIBLE FACES SHALL HAVE A FACTORY APPLIED POWER COAT FINISH. COLOR TO MATCH ARCHITECTURAL SPECIFICATIONS.
3. CONTRACTOR SHALL COORDINATE EXACT LOCATION OF ALL DIFFUSERS, REGISTERS, AND GRILLES, WITH THE ARCHITECTURAL REFLECTED CEILING PLANS, LIGHT FIXTURES, FIRE PROTECTION DEVICES, STRUCTURAL ELEMENTS, AND ANY OTHER CEILING MOUNTED DEVICES.
4. NOISE CRITERIA RATINGS SHOWN HERE ARE MAXIMUM ALLOWABLE LEVELS.
5. FLEXIBLE DUCT CONNECTIONS TO THE SUPPLY DIFFUSERS SHALL BE LIMITED TO A MAXIMUM OF 4 FEET IN LENGTH. ALL SUPPLY/RETURN GRILLES AND RETURN DIFFUSERS SHALL BE FULLY HARD DUCTED TO THE AIR OUTLET.

NJ Certificate of Authorization
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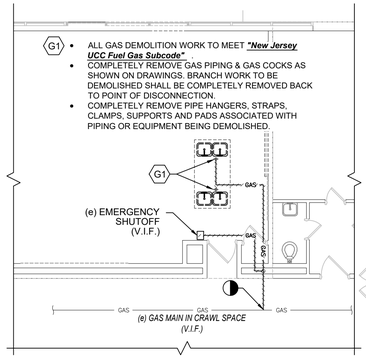
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MECHANICAL SCHEDULES & DETAILS
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Engineering, Planning, Architecture, Surveying Inc.
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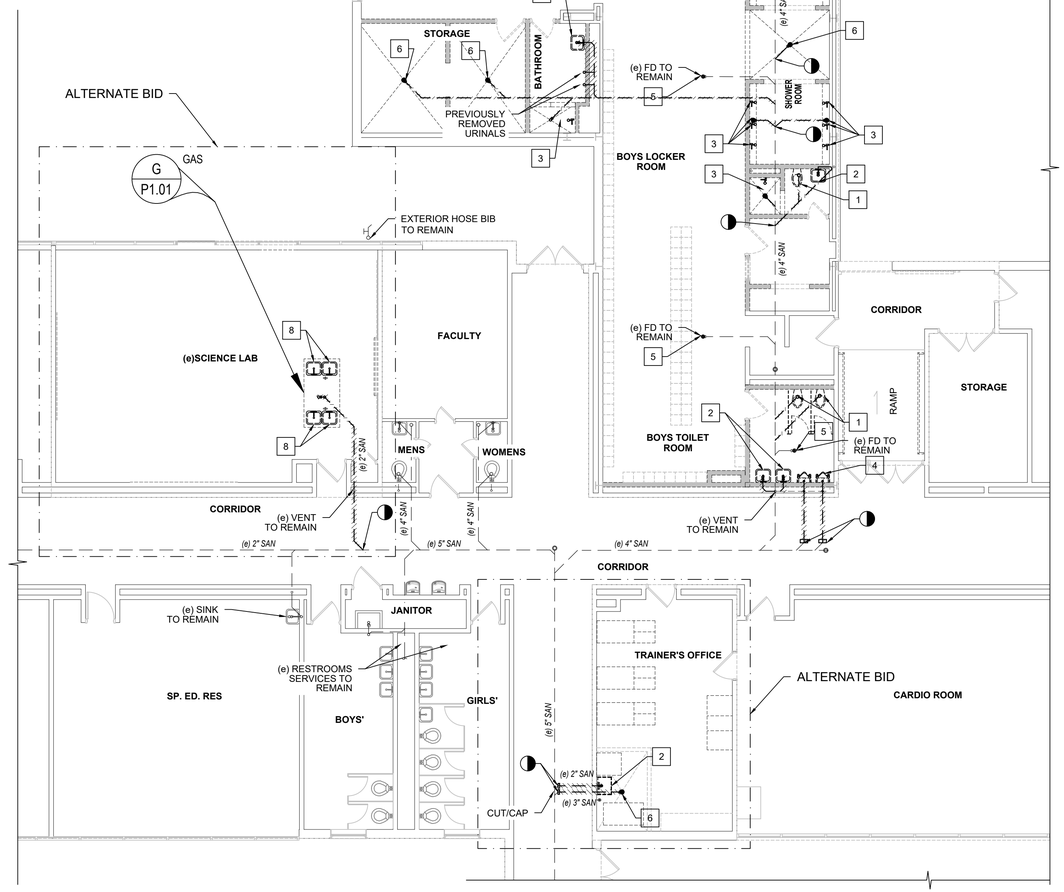
Job No. 2.20457.20
File No. 2045720 M6.01

M6.01



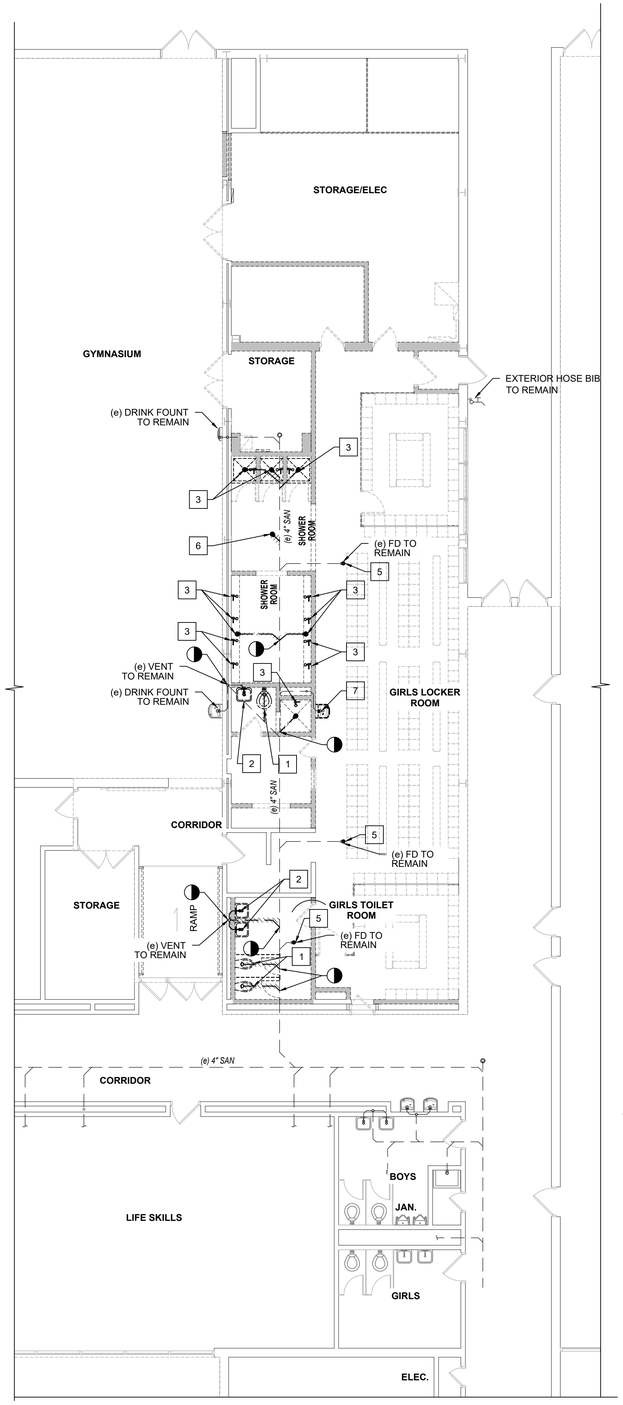
G P1.01 GAS DEMO

N.T.S.



1-S P1.01 PARTIAL PLUMBING DEMOLITION PLAN - BOYS / GIRLS LOCKER ROOM AREAS

1/8" = 1'-0"



SANITARY / VENTING / GAS

NOTE:
CONTRACTOR SHALL SNAKE, SCOPE, AND TELEVISE ALL EXISTING WASTE LINES THAT ARE TO BE REUSED TO ENSURE THEY ARE CLEAR AND FREE FROM DEBRIS, DEFECTS, CRACKS, ETC. CONTRACTOR SHALL BE RESPONSIBLE FOR TELEVISING ALL WASTE LINES FOR A MINIMUM OF FIFTY (50') FEET FROM THE END OF LINE CLEANOUT AT A GROUP OF FIXTURES. CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER IMMEDIATELY IF DEFECTS IN THE EXISTING PIPING ARE FOUND.

Plumbing Existing Condition Notes

THE CONTRACT DRAWINGS ARE, IN PART, DIAGRAMMATIC AND ARE INTENDED TO CONVEY THE GENERAL SCOPE AND INTENT OF THE WORK AS WELL AS INDICATE THE GENERAL ARRANGEMENT OF THE EQUIPMENT. THE CONTRACTOR IS TO COMPLY WITH THE DRAWINGS FOR GENERAL LAYOUT OF THE WORK AND IF THERE ARE DISCREPANCIES, THE CONTRACTOR IS TO NOTIFY THE ARCHITECT/ENGINEER IMMEDIATELY. PROVIDE ALL RELATED ACCESSORIES REQUIRED FOR A COMPLETE OPERATIONAL AND SATISFACTORY INSTALLATION REQUIRED FOR CONTINUOUS USE BY OWNER.

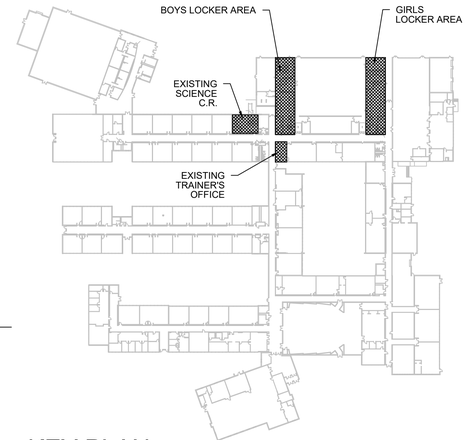
AS INDICATED ABOVE, DRAWINGS ARE DIAGRAMMATIC IN NATURE AND INDICATE THE SIZE AND GENERAL ARRANGEMENT OF PIPING, EQUIPMENT, AND SPECIALTIES. EXACT LOCATIONS AND ROUTINGS SHALL BE DETERMINED IN THE FIELD BEFORE AND AS THE WORK PROGRESSES.

CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO COMMENCEMENT OF ANY WORK. ANY REQUIRED CHANGES TO WORK SHOWN ON DRAWINGS SHALL BE COORDINATED WITH ARCHITECT/ENGINEER AND OTHER TRADES PRIOR TO CONSTRUCTION.

	Existing (e) To Remain	Demolition
Domestic Cold Water		
Domestic Hot Water		
Domestic Hot Water Return		
Sanitary Waste		
Sanitary Vent		
Point of Disconnection from Existing (e)		

PLUMBING DEMOLITION KEY NOTES

1. REMOVE EXISTING WATER CLOSET & ALL RELATED FLUSH VALVE, ASSOCIATED CARRIER, PIPING, VALVES, FITTINGS, ETC. REMOVE ALL RELATED PIPING WITHIN WALL/CHASE BEING DEMOLISHED. SAWCUT EXISTING MASONRY WALL OR CONCRETE FLOOR AS REQUIRED TO ALLOW REMOVAL OF EXISTING AND INSTALLATION OF NEW SCOPE OF WORK. CUT AND MODIFY EXISTING PLUMBING AND SANITARY LINES AS REQUIRED TO ACCOMMODATE NEW SCOPE OF WORK
2. REMOVE EXISTING WALL MOUNTED LAVATORY, ASSOCIATED CARRIER & ALL RELATED FAUCET, PIPING, VALVES, FITTINGS, SUPPORTS, ETC. SAWCUT EXISTING MASONRY WALL AND MODIFY EXISTING PLUMBING AND SANITARY LINES AS REQUIRED TO ACCOMMODATE NEW SCOPE OF WORK
3. REMOVE SHOWER FAUCET/CONTROLS & DRAIN. REMOVE ASSOCIATED, PIPING, VALVES, FITTINGS, SUPPORTS, ETC. SAWCUT EXISTING MASONRY WALL AND MODIFY EXISTING PLUMBING AND SANITARY LINES AS REQUIRED TO ACCOMMODATE NEW SCOPE OF WORK
4. REMOVE EXISTING URINAL & ALL RELATED FLUSH VALVE, PIPING, VALVES, FITTINGS, SUPPORTS, SAWCUT EXISTING MASONRY WALL OR CONCRETE FLOOR AS REQUIRED TO ALLOW REMOVAL OF EXISTING AND INSTALLATION OF NEW SCOPE OF WORK. PATCH WALL/FLOOR SLAB TO MATCH EXISTING
5. REPLACE EXISTING FLOOR DRAIN STRAINER w/ NEW. PATCH FLOOR SLAB TO MATCH
6. REMOVE EXISTING FLOOR DRAIN. PATCH FLOOR SLAB TO MATCH
7. REMOVE EXISTING DRINKING FOUNTAIN & ALL RELATED PIPING, VALVES, FITTINGS, SUPPORTS, SAWCUT EXISTING MASONRY WALL OR CONCRETE FLOOR AS REQUIRED TO ALLOW REMOVAL OF EXISTING AND INSTALLATION OF NEW SCOPE OF WORK. PATCH WALL/FLOOR SLAB TO MATCH EXISTING
8. REMOVE EXISTING COUNTER MOUNTED SCIENCE SINK, ASSOCIATED CASEWORK & ALL RELATED FAUCET, PIPING, VALVES, FITTINGS, SUPPORTS, ETC. SAWCUT EXISTING MASONRY WALL AND MODIFY EXISTING PLUMBING AND SANITARY LINES AS REQUIRED TO ACCOMMODATE NEW SCOPE OF WORK



KEY PLAN

N.T.S.

NJ Certificate of Authorization	
Engr. Nos.	24GA27937500
Arch. Nos.	21AC00012400
Date	11/3/26
Checked	MGM
Drawn	RJS

MICHAEL G. MIERKOWSKI, P.E. — Title: PROFESSIONAL ENGINEER — License No.: 24GE05063600

Revisions:

ISSUED FOR BID
11/03/26

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State Project#: 07-1770-050-XX-XXXX

PLUMBING DEMOLITION PLANS - SAN/VENT/GAS

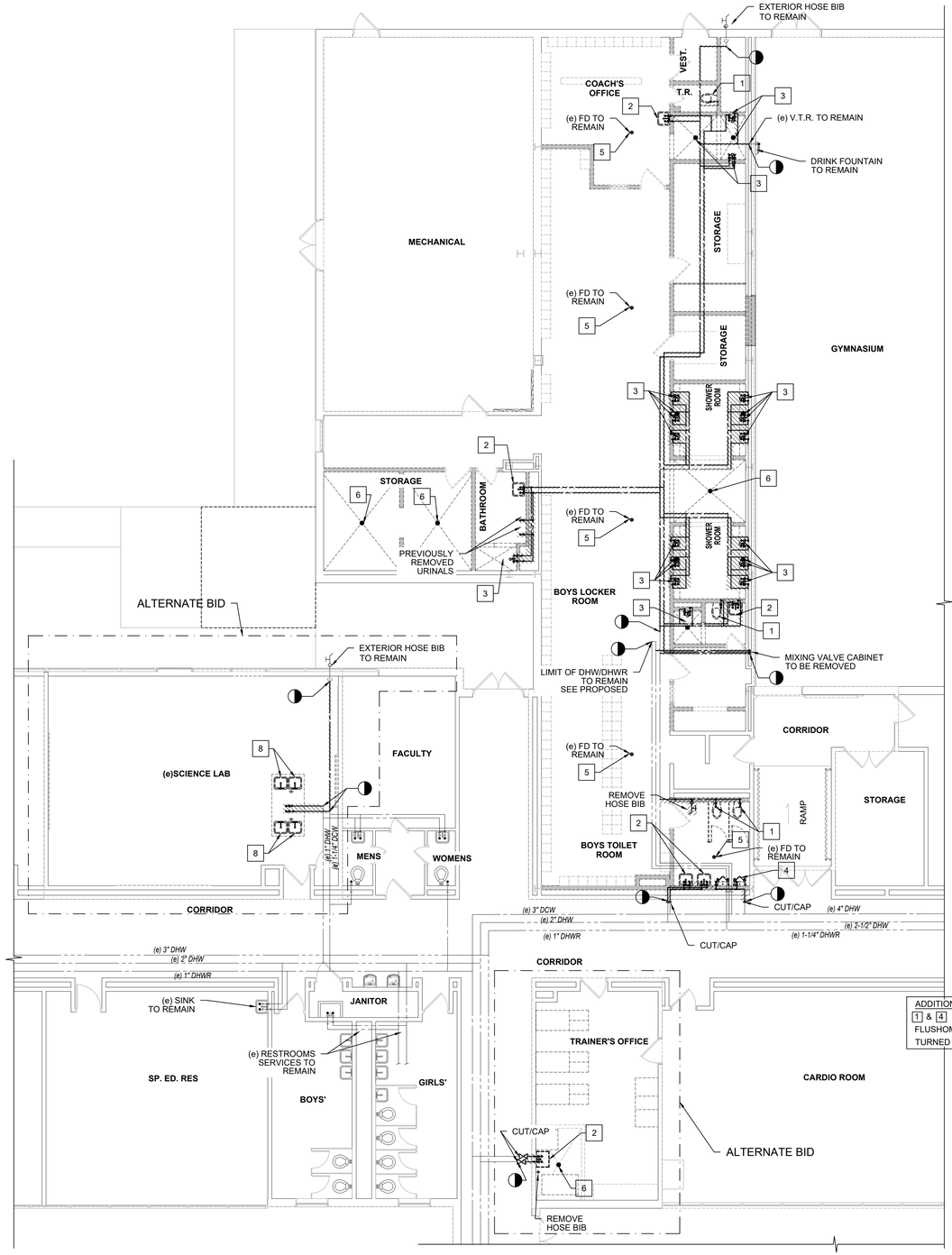
HIGH SCHOOL LOCKER ROOM INTERIOR ALTERATIONS

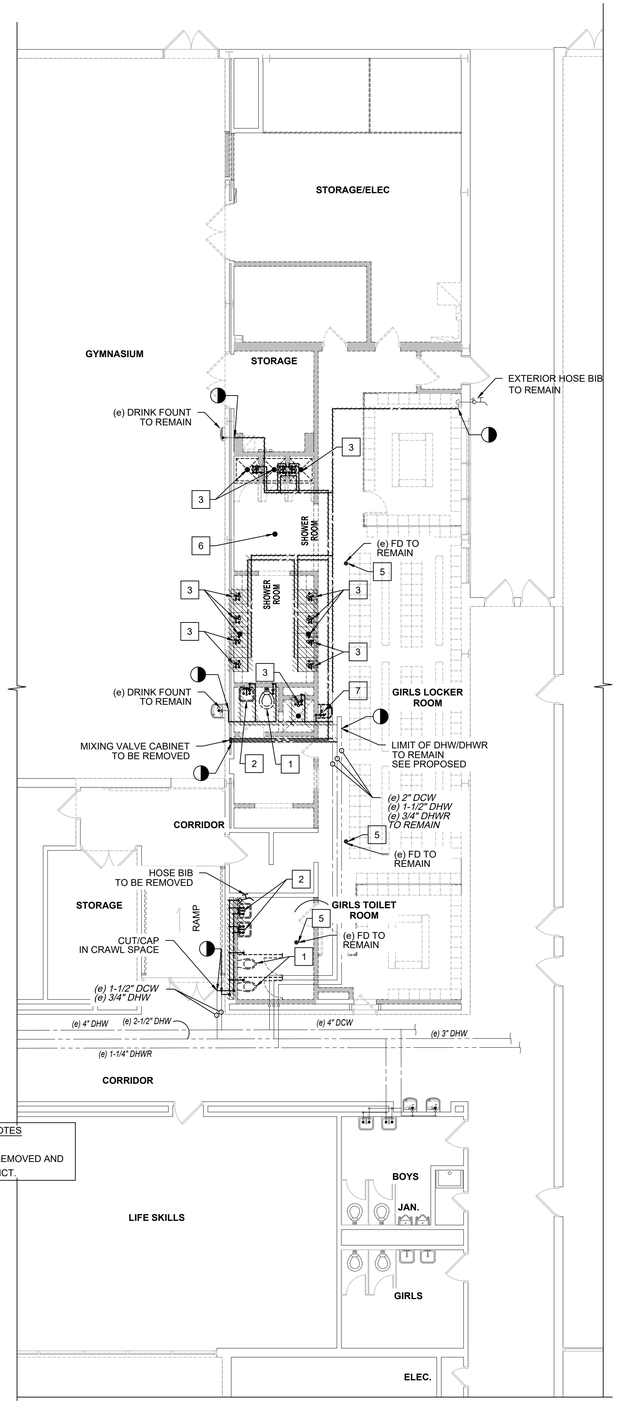
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Job No. 2.20457.20

File No. 20457.20 P201

P1.01





ADDITIONAL SALVAGE NOTES
1 & 4
FLUSHOMETERS TO BE REMOVED AND TURNED OVER TO DISTRICT.

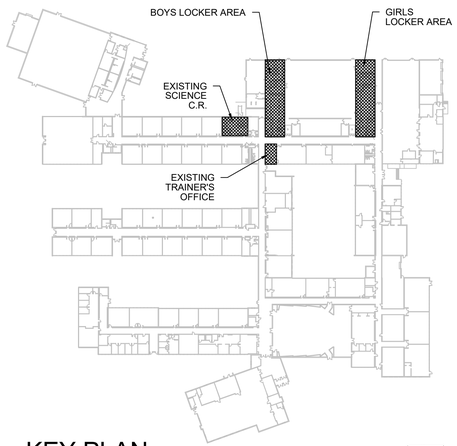
GENERAL PLUMBING DEMOLITION NOTES

1. CONTRACTOR TO NOTE THAT LOCATIONS & SIZES OF EXIST. PLUMBING PIPING SHOWN (WASTE, VENT, DCW, DHW, DHWR, ETC) ARE BASED ON FIELD OBSERVATIONS AND AVAILABLE BLUEPRINTS AND ARE APPROXIMATE. CONTRACTOR SHALL INVESTIGATE/TRACE (WITH CAMERA OR ELECTRONIC DEVICES) THE EXISTING SANITARY WASTE LINES TO BE REMOVED/REPLACED OR RESCHEDULED TO BE REUSED. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER OF ANY DISCREPANCIES. EXISTING VENTING AND WATER LINES ARE SHOWN GRAPHICALLY TO GIVE AN HONEST REPRESENTATION OF THE EXISTING CONDITIONS. THE CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY ALL SIZES & LOCATIONS IN FIELD.
2. ALL SANITARY LINES BEING DEMOLISHED SHALL BE REMOVED BACK TO THE MAINS. DEAD END SHALL NOT EXCEED THE MAXIMUM LENGTH PER LATEST PLUMBING CODE.
3. REMOVE ALL EXIST. ABANDONED ROUGH-IN PIPING, WHETHER THEY ARE SHOWN OR NOT ON THE DRAWING. PATCH EXISTING FLOOR OPENINGS WHERE ARE NOT REUSED FOR NEW PIPE PENETRATIONS. PAINT TO MATCH EXISTING CEILING FINISH.
4. ANY CUTTING, PATCHING, OR FINISH REPAIR WORK REQUIRED FOR PLUMBING DEMOLITION IS THE RESPONSIBILITY OF THE PLUMBING SUBCONTRACTOR.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR SHUTDOWN AND/OR TO ISOLATE SECTIONS OF PLUMBING SYSTEM, AND DRAIN WATER FROM THE SYSTEM TO ACCOMMODATE FOR DEMOLITION. RESTORE THE SYSTEM AS REQUIRED.
6. ANY SHUT-DOWNS MUST BE COORDINATED WITH THE OWNER MIN 72 HOURS IN ADVANCE. THE CONTRACTOR SHALL NOT SHUT DOWN ENTIRE SECTIONS OF THE BUILDING AT ONE TIME. PROVIDE BYPASS LINES AS NECESSARY TO WORK ON INDIVIDUAL BATHROOMS WHILE MAINTAINING THE INTEGRITY OF THE REST OF THE PLUMBING SYSTEM.
7. SAWCUT EXIST. WALLS/CHASES/FLOOR SLABS/CEILING AS REQUIRED FOR DEMOLITION OF ALL EXIST. PLUMBING FIXTURES & PIPING. PATCH TO MATCH EXISTING.

	Existing (e) To Remain	Demolition
Domestic Cold Water		
Domestic Hot Water		
Domestic Hot Water Return		
Sanitary Waste		
Sanitary Vent		
Point of Disconnection from Existing (e)		

PLUMBING DEMOLITION KEY NOTES

1. REMOVE EXISTING WATER CLOSET & ALL RELATED FLUSH VALVE, ASSOCIATED CARRIER, PIPING, VALVES, FITTINGS, ETC. REMOVE ALL RELATED PIPING WITHIN WALL/CHASE BEING DEMOLISHED. SAWCUT EXISTING MASONRY WALL OR CONCRETE FLOOR AS REQUIRED TO ALLOW REMOVAL OF EXISTING AND INSTALLATION OF NEW SCOPE OF WORK. CUT AND MODIFY EXISTING PLUMBING AND SANITARY LINES AS REQUIRED TO ACCOMMODATE NEW SCOPE OF WORK
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KEY PLAN
N.T.S.

1-S / P1.02
PARTIAL PLUMBING DEMOLITION PLAN - BOYS / GIRLS LOCKER ROOM AREAS
1/8" = 1'-0"

DOMESTIC WATER

NJ Certificate of Authorization
Engr. Nos. 24GA27937500
Arch. Nos. 21AC00012400
Date 11/3/26
Checked MGM
Drawn RJS

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License No. 24GE05063600

Revisions:
ISSUED FOR BID
11/03/26

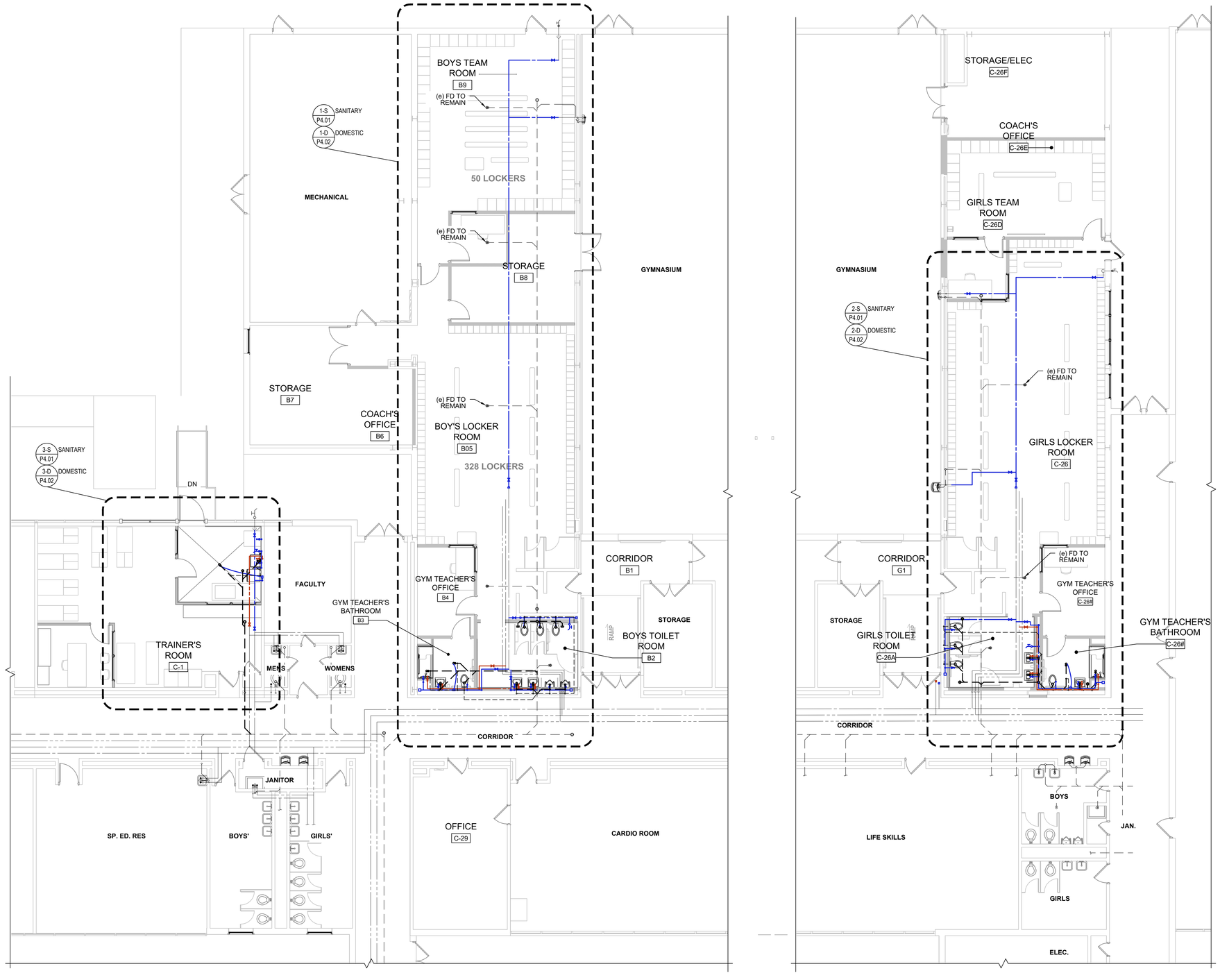
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State Project#: 07-1770-050-XX-XXXX

PLUMBING DEMOLITION PLANS - DOMESTIC WATER
HIGH SCHOOL LOCKER ROOM INTERIOR ALTERATIONS
GLOUCESTER CITY BOE
1300 MARKET STREET, GLOUCESTER CITY NJ, 08030

Job No. 2.20457.20
File No. 20457.20 P201

P1.01



1-S / P2.01 PARTIAL PLUMBING PLAN - BOYS / GIRLS LOCKER ROOM AREAS

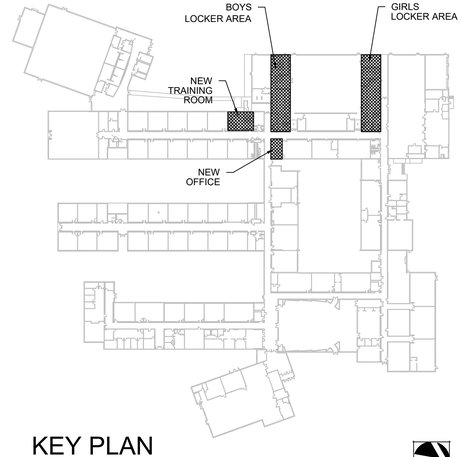
1/8" = 1'-0"

General Notes

1. ALL WORK SHALL CONFORM TO NEW JERSEY STATE ENERGY CODE, NATIONAL STANDARD PLUMBING CODE 2024, AND ALL OTHER APPLICABLE CODES, ORDINANCES, AND LOCAL AUTHORITY HAVING JURISDICTION.
2. CONTRACTORS SHALL FAMILIARIZE THEMSELVES WITH THE EXTENT AND SCOPE OF THE WORK PRIOR TO SUBMITTING BIDS OR COMMENCING WORK.
3. CONTRACTOR SHALL REVIEW DRAWINGS AND FIELD VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL REPORT ANY DISCREPANCIES, AND ADDRESS ALL QUESTIONAIS TO ARCHITECT/ENGINEER PRIOR TO COMMENCING WORK.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING UP WORK AREAS UPON COMPLETION OF WORK.
5. THE CONTRACTOR SHALL SECURE AND PAY FOR ALL REQUIRED PERMITS, FEES AND INSPECTIONS PRIOR TO COMMENCING WORK. UPON COMPLETION OF WORK THE CONTRACTOR SHALL SECURE CERTIFICATE OF OCCUPANCY.
6. CONTRACTOR SHALL BE RESPONSIBLE TO DISPOSE OF ALL DEMOLISHED MATERIAL OF SITE IN AN APPROVED MANNER.

Plumbing General Notes

1. PLUMBING CONTRACTOR SHALL VISIT JOB SITE AND NOTE ALL EXISTING CONDITIONS TO BE MET BEFORE SUBMITTING BID. THE DRAWINGS ARE GENERALLY DIAGRAMMATIC AND SHOW THE INTENT OF WORK.
2. PLUMBING CONTRACTOR TO PROCURE AND PAY FOR ALL NECESSARY PERMITS AND LICENSES REQUIRED TO CARRY OUT WORK, OBTAIN AND PAY FOR ALL NECESSARY CERTIFICATES OF APPROVAL FOR WORK, AND PAY FOR ANY LEGAL FEES.
3. INSTALLATION TO COMPLY WITH ALL FEDERAL, STATE, MUNICIPAL LAWS, AND ALL CODES, RULES, ORDINANCES, AND REGULATIONS OF HEALTH, PUBLIC OR OTHER AUTHORITIES CONTROLLING OR LIMITING THE METHODS, MATERIALS TO BE USED OR ACTIONS OF THOSE EMPLOYED IN THE WORK
4. PLUMBING CONTRACTOR TO PROVIDE TEMPORARY WATER. OWNER TO PAY FOR WATER CONSUMED.
5. PIPE INSTALLATION AS FOLLOWS:
   - 5.A. RUN ALL PIPING CONCEALED IN CEILINGS, WALLS AND PARTITIONS
   - 5.B. ALL PIPING TO BE PITCHED TO LOW POINTS WITH DRAIN VALVES, SOIL, STORM, AND WASTE TO BE SLOPED @ 1/8" PER FOOT MIN.
   - 5.C. SLEEVE PIPING THAT PASSES THROUGH WALLS
   - 5.D. FLASH ALL PIPING THAT PASSES THROUGH ROOF.
   - 5.E. PROVIDE ROD HANGERS WITH CLEVIS PIPE SUPPORT PER NATIONAL PLUMBING CODE 2024.
   - 5.F. PROVIDE VALVES REQUIRED FOR COMPLETE CONTROL OF ALL SYSTEMS. STOP VALVES FOR SUPPLY TO ALL FIXTURES TO BE CHROME PLATED WHERE EXPOSED.
   - 5.G. PROVIDE ACCESS DOORS FOR ALL CONCEALED VALVES AND CLEANOUTS
6. PLUMBING CONTRACTOR TO PERFORM ALL TESTING OF THE PLUMBING WORK IN THE PRESENCE OF THE OWNER. PROVIDE ALL APPARATUS, TEMPORARY CONNECTIONS, AND OTHER REQUIREMENTS TO DO SUCH TESTS. ANY DEFECTS, LEAKS, ETC. WILL BE REPLACED AND TEST REPEATED UNTIL TEST REQUIREMENTS ARE MET.
7. SUBMIT SHOP DRAWINGS OF ALL WORK TO BE DONE, EQUIPMENT, AND FIXTURES FURNISHED.
8. PLUMBING CONTRACTOR TO CARRY OUT PERIODIC CLEANING TO REMOVE RUBBISH ETC., TO LEAVE PREMISES FREE FROM DEBRIS, AND DISCARDED MATERIALS. AFTER INSTALLATION, CLEAN FIXTURES, FITTINGS, ETC. AND LEAVE READY FOR USE.



KEY PLAN

N.T.S.

NJ Certificate of Authorization	
Engr. Nos.	24GA27937500
Arch. Nos.	21AC00012400
Date	11/3/26
Checked	MGM
Drawn	RJS

MICHAEL G. MIERKOWSKI, P.E.
Title PROFESSIONAL ENGINEER License No. 24GE05063600

Revisions:

ISSUED FOR BID
11/03/26

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Engineering, Planning, Architecture, Surveying Inc.
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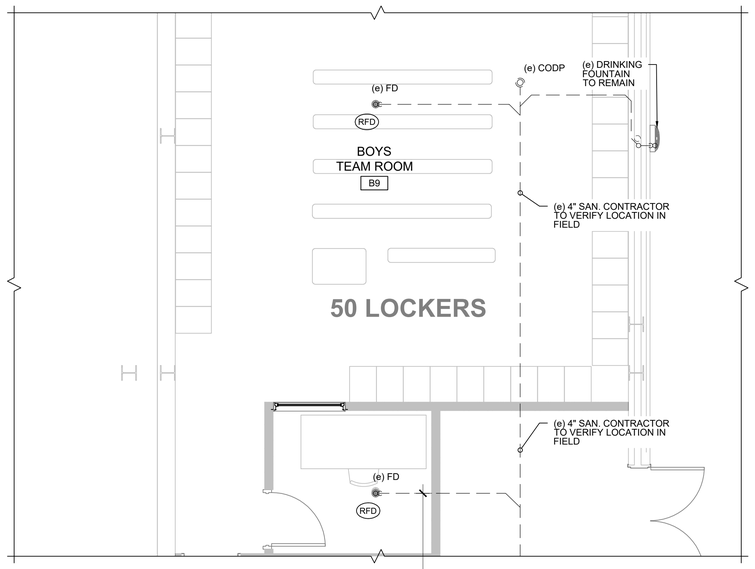
PLUMBING PLANS & NOTES

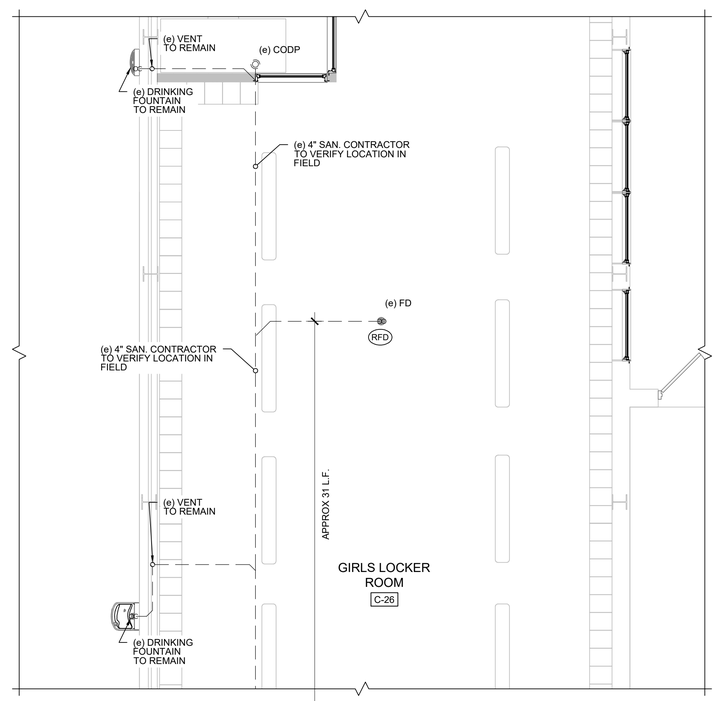
HIGH SCHOOL LOCKER ROOM INTERIOR ALTERATIONS
GLOUCESTER CITY BOE
1300 MARKET STREET, GLOUCESTER CITY NJ, 08030

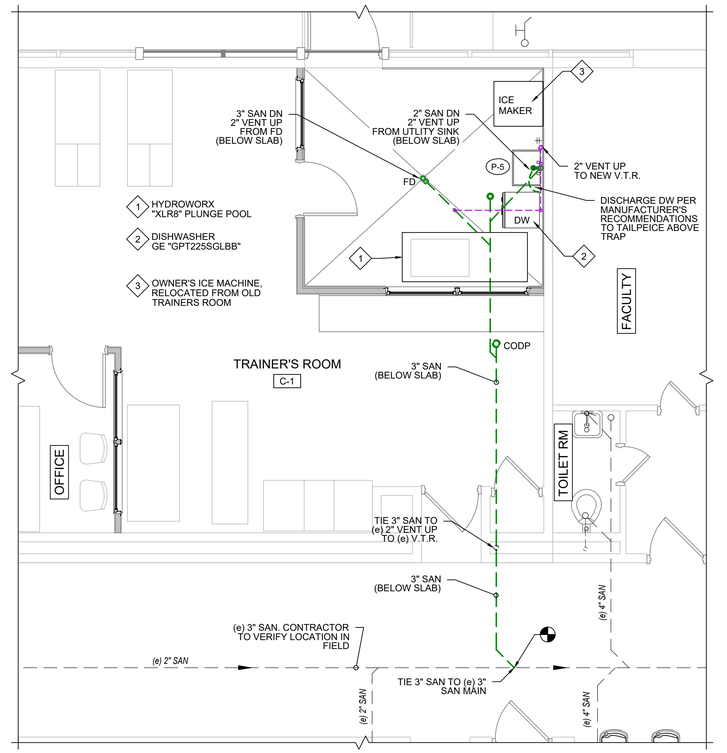
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Job No. *2.20457.20*
File No. *20457.20 P201*

P2.01





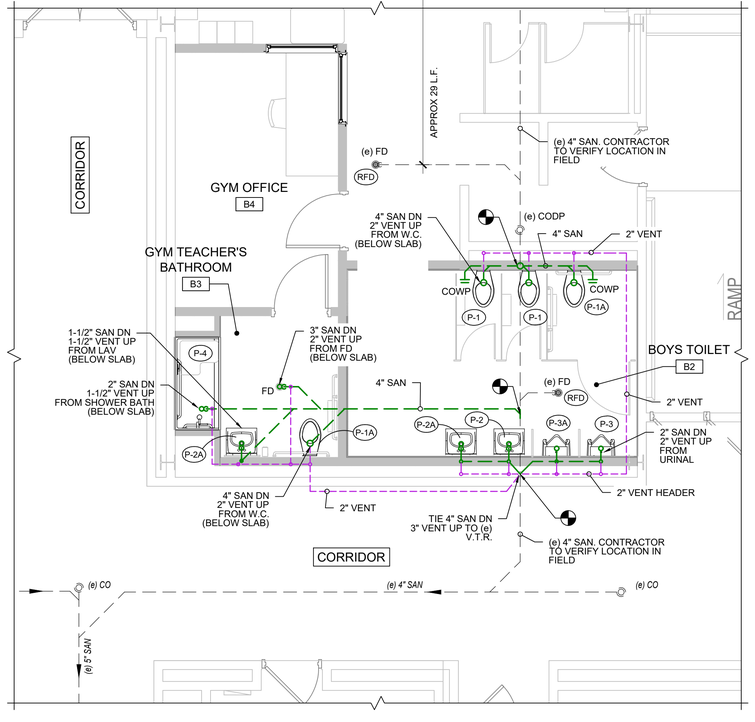


3-S P4.01 ENLARGED PLUMBING PLAN - TRAINERS ROOM

1/4" = 1'-0"

ALTERNATE BID

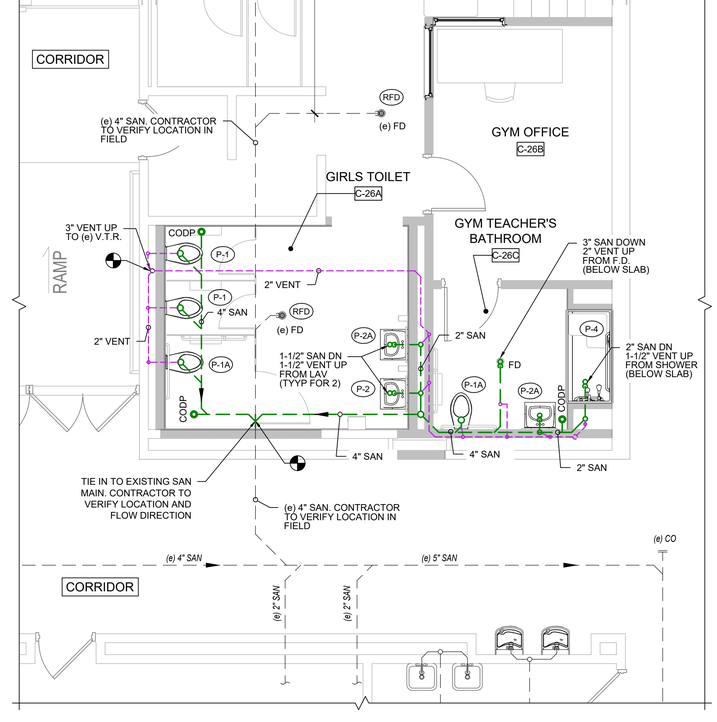
SANITARY/VENTING



1-S P4.01 ENLARGED PLUMBING PLAN - BOYS TOILET ROOM

1/4" = 1'-0"

SANITARY/VENTING



2-S P4.01 ENLARGED PLUMBING PLAN - GIRLS TOILET ROOM

1/4" = 1'-0"

SANITARY/VENTING

	Existing To Remain	Proposed
Domestic Cold Water		
Domestic Hot Water		
Domestic Hot Water Return		
Sanitary Waste		
Sanitary Vent		
Point of Connection to Existing		

NJ Certificate of Authorization	
Engr. Nos.	24GA27937500
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ENLARGED PLUMBING PLANS - SANITARY

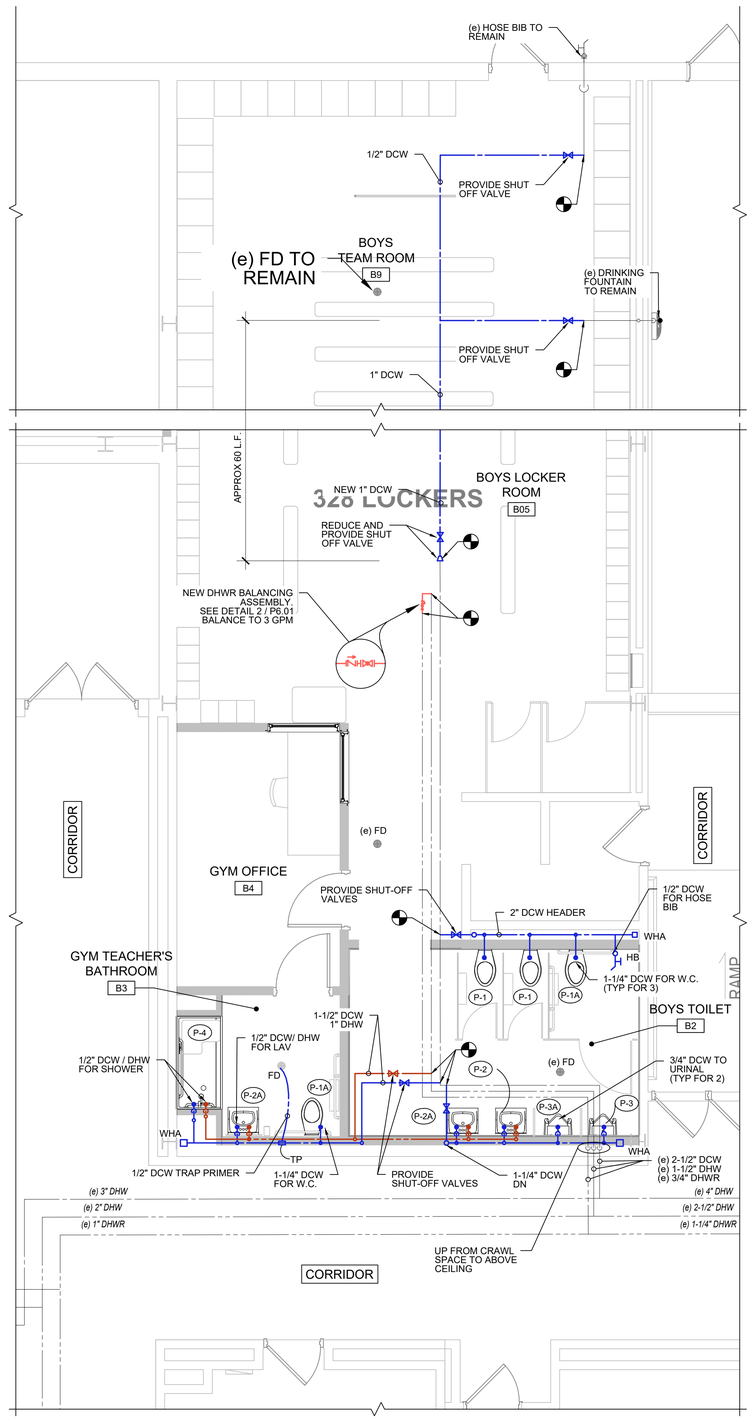
HIGH SCHOOL LOCKER ROOM INTERIOR ALTERATIONS
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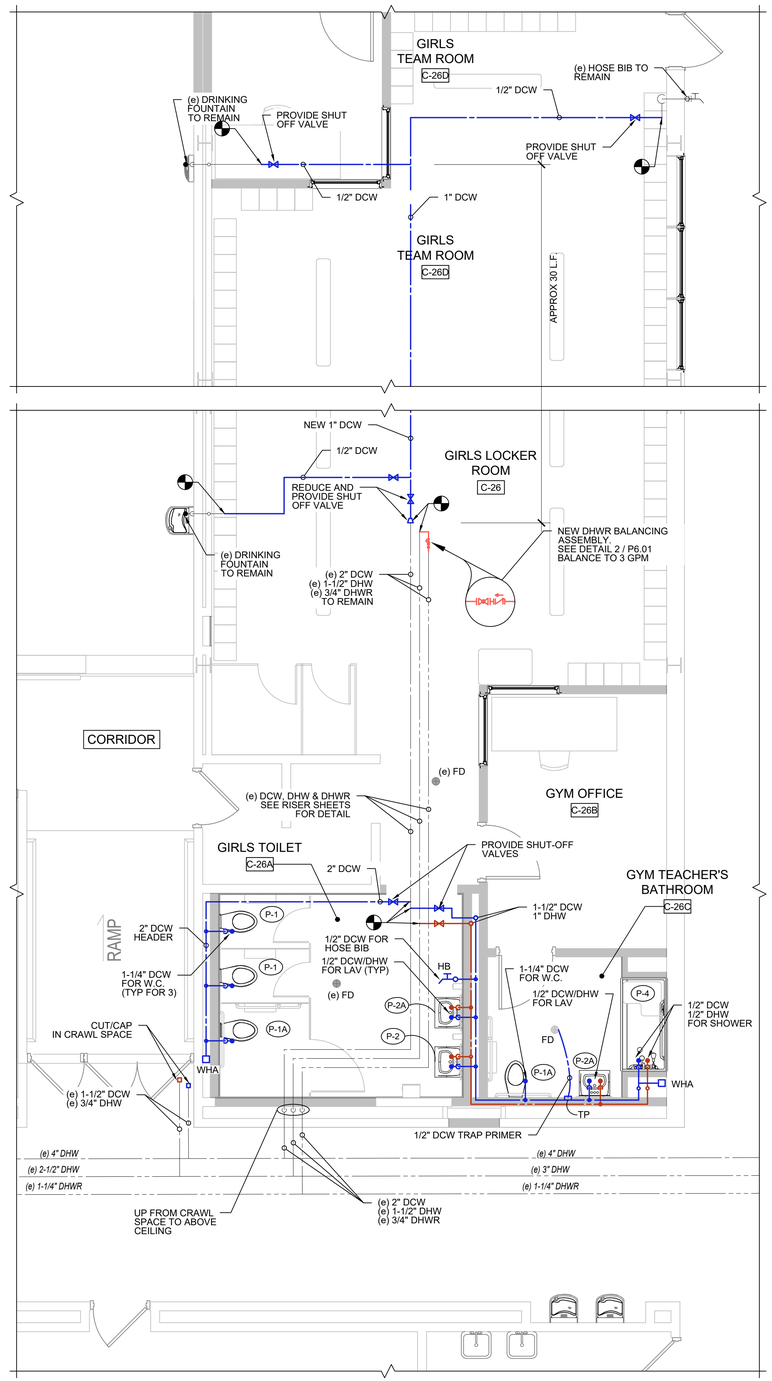
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State Project#: 07-1770-050-XX-XXXX



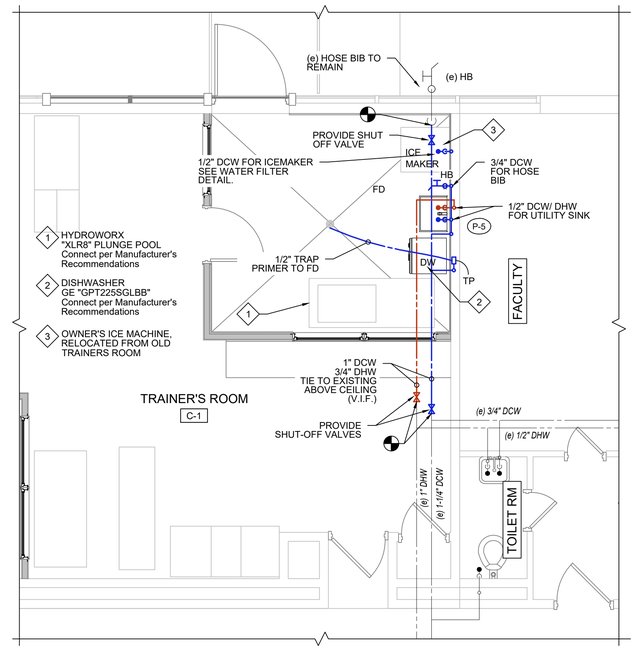
1-D P4.02 ENLARGED PLUMBING PLAN - BOYS TOILET RM

1/4" = 1'-0" DOMESTIC WATER



2-D P4.02 ENLARGED PLUMBING PLAN - GIRLS TOILET RM

1/4" = 1'-0" DOMESTIC WATER



3-D P4.02 ENLARGED PLUMBING PLAN - TRAINERS RM

1/4" = 1'-0" ALTERNATE BID DOMESTIC WATER

	Existing To Remain	Proposed
Domestic Cold Water		
Domestic Hot Water		
Domestic Hot Water Return		
Sanitary Waste		
Sanitary Vent		
Point of Connection to Existing		

NJ Certificate of Authorization
Engr. Nos. 24GA27937500
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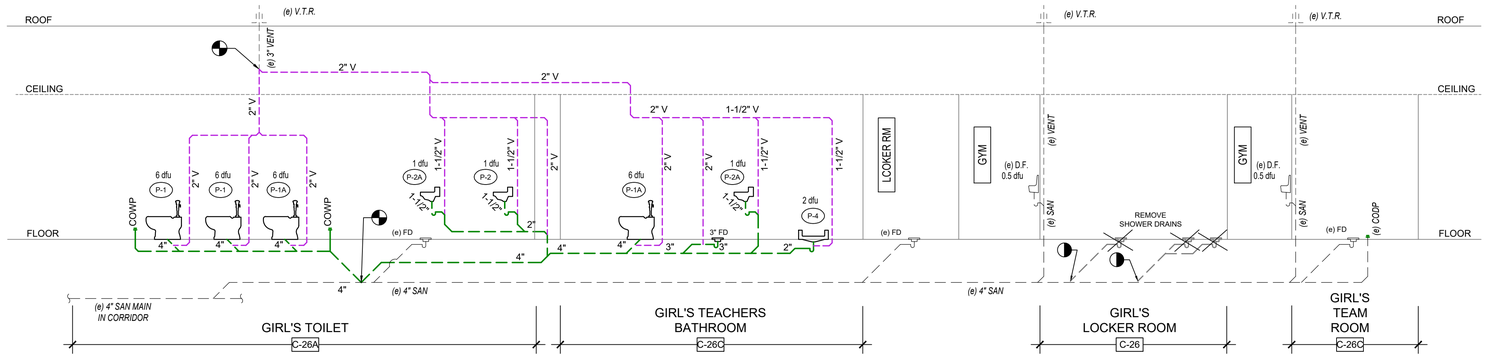
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ENLARGED PLUMBING PLANS - DOMESTIC

HIGH SCHOOL LOCKER ROOM INTERIOR ALTERATIONS
GLOUCESTER CITY BOE
1300 MARKET STREET, GLOUCESTER CITY NJ, 08030

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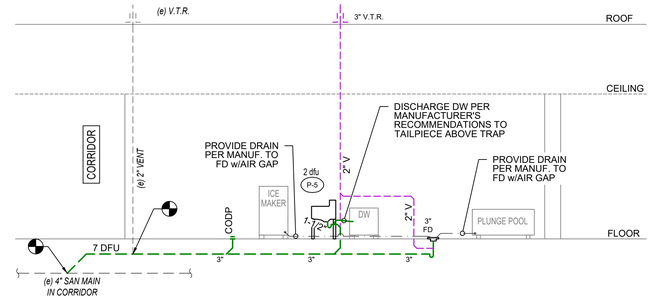
P4.02



1-S / P5.01 SANITARY/VENTING RISER - GIRLS SIDE

N.T.S.

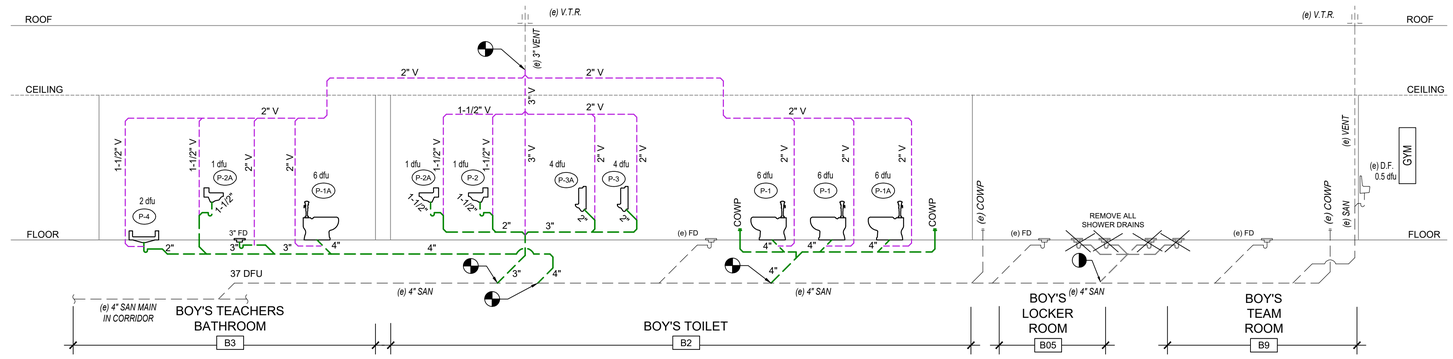
	Existing To Remain	Proposed
Domestic Cold Water		
Domestic Hot Water Domestic Hot Water Return		
Sanitary Waste		
Sanitary Vent		
Point of Connection to Existing		



3-S / P5.01 SANITARY/VENTING RISER - TRAINER'S RM

N.T.S.

ALTERNATE BID



2-S / P5.01 SANITARY/VENTING RISER - BOYS SIDE

N.T.S.

State Project#: 07-1770-050-XX-XXXX

MICHAEL G. MIERKOWSKI, P.E.
Title PROFESSIONAL ENGINEER License No. 24GE05063600

NJ Certificate of Authorization	
Engr. Nos.	24GA27937500
Arch. Nos.	21AC00012400
Date	11/3/26
Checked	MGM
Drawn	RJS

Revisions:

ISSUED FOR BID
11/03/26

LAN ASSOCIATES
Engineering, Planning, Architecture, Surveying Inc.
1018 Laurel Oak Road, Suite 11, Voorhees, NJ 08043 | t. 856-375-2701

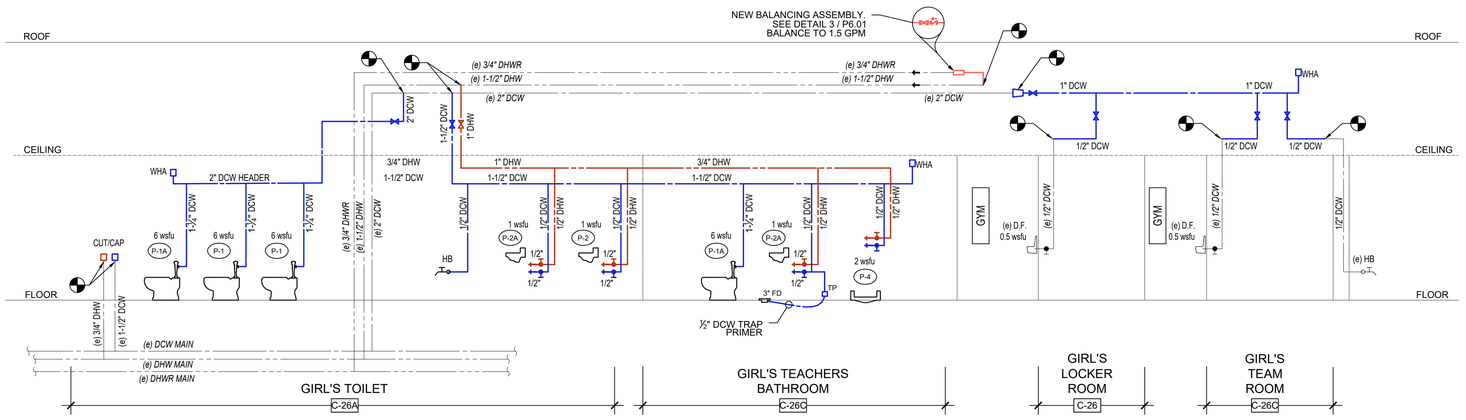
PLUMBING RISERS - SANITARY

HIGH SCHOOL LOCKER ROOM INTERIOR ALTERATIONS
GLOUCESTER CITY BOE
1300 MARKET STREET, GLOUCESTER CITY NJ, 08030

Job No. 2.20457.20

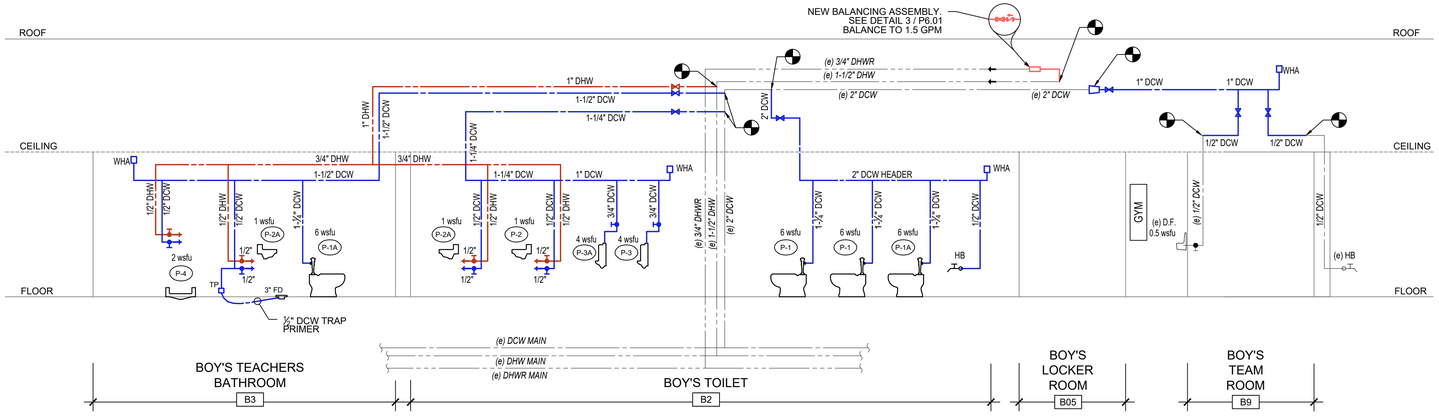
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P5.01



1-D / P5.02 **DOMESTIC WATER RISER - GIRLS SIDE**

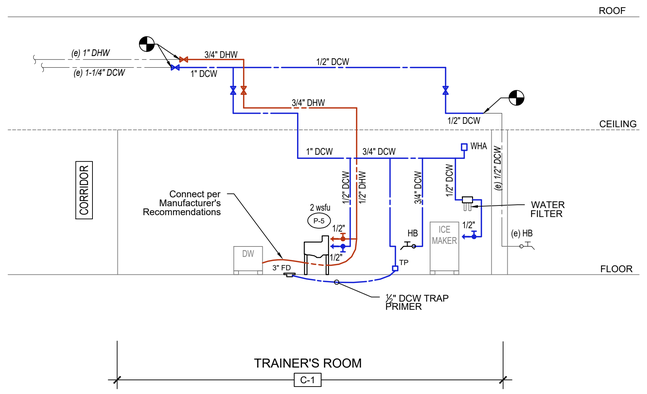
N.T.S.



2-D / P5.02 **DOMESTIC WATER RISER - BOYS SIDE**

N.T.S.

Existing To Remain	Proposed
Domestic Cold Water	
Domestic Hot Water	
Domestic Hot Water Return	
Sanitary Waste	
Sanitary Vent	
Point of Connection to Existing	



3-D / P5.02 **DOMESTIC WATER RISER - TRAINER'S RM**

N.T.S.

ALTERNATE BID

NJ Certificate of Authorization

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Arch. Nos.	21AC00012400
Date	11/3/26
Checked	MGM
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State Project#: 07-1770-050-XX-XXXX

PLUMBING RISERS - DOMESTIC

HIGH SCHOOL LOCKER ROOM INTERIOR ALTERATIONS
GLOUCESTER CITY BOE
1300 MARKET STREET, GLOUCESTER CITY, NJ, 08030

Job No. 2.20457.20
File No. 20457.20 P201

P5.02

PLUMBING FIXTURE SCHEDULE

NUMBER	FIXTURE	MANUFACTURER	TYPE & MODEL NO.	TRIM NO.	SUPPLY PIPE NO.	TRAP NO.	SUPPORT	PIPE SIZES					DFU	WSFU	DESCRIPTION
								TRAP	WASTE	VENT	CW	HW			
P-1	WATER CLOSET	AMERICAN STANDARD	MADERA 3461.001	SLOAN ROYAL 111-ESS-1.28 TMO			FLOOR MTD	INT	4"	2"	1-1/4"		5	5	FLOOR-MOUNTED ELONGATED FLUSH VALVE TOILET, TOP SPUD & 1.28 GPF. COLOR SHALL BE WHITE. PROVIDE w/ A.S. #5901.100 HEAVY-DUTY OPEN FRONT SEATLESS COVER, SLOAN HARDWIRED SENSOR FLUSHOMETER. (P-1A) INSTALL TO MEET ADA REQUIREMENTS
P-2	LAVATORY	AMERICAN STANDARD	LUCERNE 0356.421	CHICAGO 802-VE2805-765ABCP METERED	McGUIRE LF158	McGUIRE 8902C	WALL MTD	1-1/4 x 1-1/2"	1-1/2"	1-1/2"	1/2"	1/2"	1	1	LAVATORY SINK. PROVIDE THE FOLLOWING: FAUCET CHICAGO 802-VE2805-765ABCP (P-2A) INSTALL ADA LAV. TO MEET ADA HEIGHT REQUIREMENTS. WATTS UNDERSINK GUARDIAN MODEL LFUSG-B(ASSE 1070) FOR EA. FAUCET TO LIMIT OUTLET TEMP TO 110°F MAX. COLOR BY OWNER. INSTALL/SUPPORT PER MANUFACTURERS RECOMMENDATIONS.
P-3	URINAL	AMERICAN STANDARD	WASHBROOK 6590.001EC	SLOAN ROYAL 186 ESS 1.0-HW			WALL MTD	INT	1-1/2"	1-1/2"	3/4"		4	4	WALL-MOUNTED FLUSH VALVE URINAL w/ EVERCLEAN, TOP SPUD & 1 GPF. COLOR SHALL BE WHITE. HARD WIRED POWERED SENSOR SLOAN FLUSHOMETER. (P-3A) INSTALL TO MEET ADA REQUIREMENTS
P-4	SHOWER	FOR SHOWER /TILE DETAILS SEE ACHITECTURALS		SYMMONS - UNITY 6603-TRM				2"	2"	1-1/2"	1/2"	1/2"	2	2	FURNISH & INSTALL SHOWER, PROVIDE SOAP DISH, CURTAIN & ROD, WALL MOUNTING HARDWARE, SEE ARCH DWGS FOR ADA ACCESSORIES. CONFIRM FINISH w/ARCH & 2" NO-CAULK BRASS DRAIN. INSTALL TO MEET ADA REQUIREMENTS
P-5	TRAINER'S SINK	MUSTEE	19CF UTILATUB	-	McGUIRE LF158	McGUIRE 8902C	w/LEGS	1-1/4 x 1-1/2"	1-1/2"	1-1/2"	1/2"	1/2"	1	1	20" x 24" x 14" POLY UTILITY SINK. PROVIDE KIT w/ FAUCET w/ STRAINER & TAILPIECE, WATTS TMV #LFUSG-B.
HB	HOSE BIB	WOODFORD	MODEL 67								1/2"				WOODFORD MODEL 67, BACKFLOW PROTECTED, AUTOMATIC DRAINING, FREEZELESS WALL HYDRANT. T-HANDLE SHUT OFF. CHROME FINISH
F.D.	3" FLOOR DRAIN	J.R. SMITH	2110Y	--	--	P-TRAP	--	3"	3"	2"	--	--			FLOOR DRAIN w/HINGED GRATE, SEDIMENT BUCKET, BRONZE ROUND TOP. PROVIDE TRAP PRIMER "ZURN" Z1022" TO ALL NEW FLOOR DRAINS
RFD	FLOOR DRAIN GRATE RETROFIT	MIFAB	MODEL RTS	--	--	P-TRAP	--	3"	3"	2"	--	--			TOP SET RETROFIT GRATE & FRAME UNIVERSAL ASSEMBLY, BRONZE FINISH & J.R. SMITH QUAD CLOSE TRAP SEAL. SEE DEMOLITION PLANS FOR KEY TO EXISTING FLOOR DRAINS TO BE RETROFITTED

Plumbing System Materials

PIPING:

ABOVE GROUND WASTE & VENT PIPING SHALL BE NO-HUB SERVICE WEIGHT CAST IRON PIPE WITH STAINLESS STEEL, SHIELDED COUPLINGS.

UNDERGROUND WASTE & VENT PIPING SHALL BE BELL AND SPIGOT SERVICE WEIGHT CAST IRON PIPE WITH NEOPRENE (TY-SEAL) GASKETS.

HOT AND COLD WATER PIPING ABOVE GRADE SHALL BE TYPE "L" COPPER WITH WROUGHT COPPER SOLDER FITTINGS, SILVABRITE 100 LEAD-FREE SOLDER. HOT AND COLD WATER PIPING BELOW GRADE SHALL BE TYPE "K" COPPER WITH NO FITTINGS.

INSULATION:

ALL HOT AND COLD WATER PIPING SHALL BE INSULATED WITH FIBERGLASS PIPE INSULATION WITH ASJ JACKET. REFER TO SPECIFICATIONS FOR INSULATIONS REQUIREMENTS

CLEANOUTS:

FLOOR: J.R. SMITH #4023 w/ROUND NICKEL-BRONZE TOP

WALL: J.R. SMITH #4532 w/ROUND STAINLESS STEEL TOP.

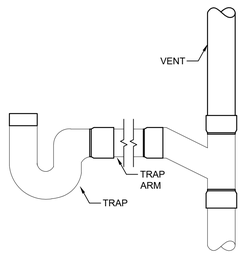
ACCESSIBLE PIPE INSULATION:

INSTALL INSULATION AT EXPOSED PIPING AT ALL LAVATORIES AS FOLLOW: LAVATORY P-TRAP AND ANGLE VALVE ASSEMBLIES SHALL BE INSULATED WITH "HANDI LAV-GUARD" FULLY MOLDED PVC INSULATION KIT #102 BY TRUEBRO OR APPROVED EQUAL.

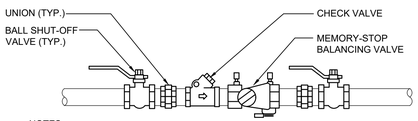
FIXTURE MOUNTING:

INSTALL CONCEALED ARM CARRIERS FOR ALL FIXTURES AS REQUIRED. J.R. SMITH MODEL #0700 OR APPROVED EQUAL.

**WHEN A DISCREPANCY OCCURS BETWEEN DESIGN DRAWINGS AND SPECIFICATIONS, THE MOST STRINGENT REQUIREMENTS SHALL BE APPLIED FOR THE PROJECT.

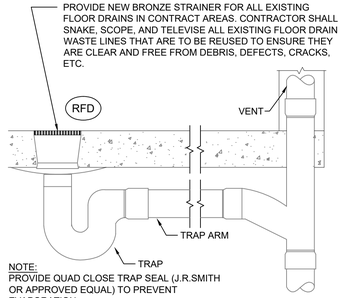


1 P6.01 TRAP DETAIL
N.T.S.



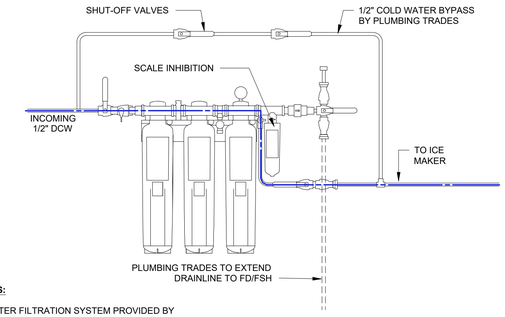
NOTES
1. ALL THREADED PIPING BETWEEN UNIONS SHALL BE BRASS.
2. INSTALL DI-ELECTRIC UNIONS FOR PIPING CONNECTIONS OF DISSIMILAR METALS.

2 P6.01 DHWR BALANCING ASSEMBLY DETAIL
N.T.S.



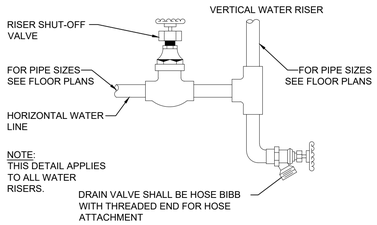
NOTE:
PROVIDE QUAD CLOSE TRAP SEAL (J.R.SMITH OR APPROVED EQUAL) TO PREVENT EVAPORATION

3 P6.01 FLOOR DRAIN RETROFIT DETAIL
N.T.S.

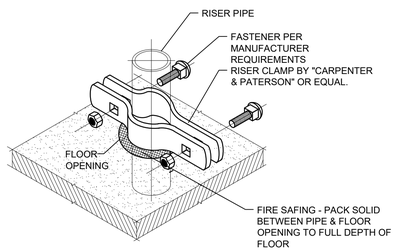


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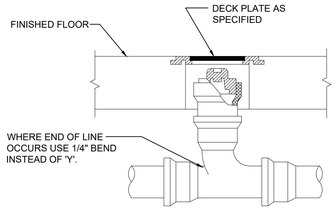
1. WATER FILTRATION SYSTEM PROVIDED BY AND INSTALLED BY PLUMBING TRADE.
2. MOUNT AS CLOSE TO CEILING AS POSSIBLE UNLESS NOTED



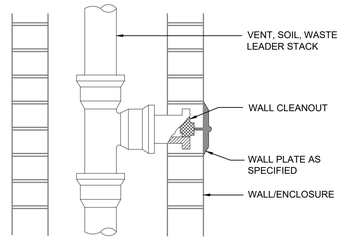
4 P6.01 RISER STOP & DRAIN VALVE
N.T.S.



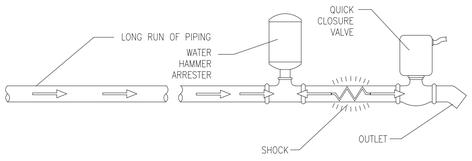
5 P6.01 PIPE RISER CLAMP
N.T.S.



6 P6.01 FLOOR CLEANOUT DETAIL
N.T.S.



7 P6.01 WALL CLEANOUT DETAIL
N.T.S.



11 P6.01 WATER FILTER DETAIL
N.T.S.

TABLE 3 INDICATES THE SIZE OF THE WATER ARRESTER REQUIRED FOR LONG RUNS OF PIPING WHICH FEED A SINGLE REMOTE FIXTURE OR APPLIANCE. THE WATER ARRESTER UNIT SHOULD BE SIZED BY USING TABLE 3 AND LOCATED AS CLOSE TO THE POINT OF QUICK CLOSURE AS POSSIBLE.

WATER HAMMER ARRESTER SELECTION CHART

LENGTH OF PIPE	NOMINAL PIPE SIZE					
	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
25'	5005	5005	5010	5020	5030	5040
50'	5005	5010	5020	5030	5040	5050
75'	5010	5020	5030	1-5005 1-5040	5050	1-5040 1-5050
100'	5020	5030	5040	5050	1-5020 1-5050	2-5050
125'	5020	5030	5050	1-5005 1-5050	1-5040 1-5050	1-5040 2-5050
150'	5030	5040	5050	1-5030 1-5050	2-5050	3-5050

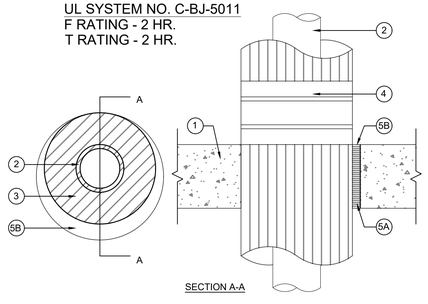
TABLE 3

NOTE: TABLE 3 SHOWS LENGTHS OF RUN OF BRANCH PIPING. THE LENGTH OF RUN USED SHOULD BE THE LENGTH OF PIPE FROM POINT OF VALVE CLOSURE TO A POINT OF RELIEF, SUCH AS LARGE PIPE RISER TWICE THE SIZE OF THE BRANCH LINE, MAIN LINE OR WATER TANK.

ALL SIZING RECOMMENDATIONS SHOWN IN TABLE 3 ARE BASED ON AN OPERATING WATER PRESSURE OF 65 PSI OR UNDER AN AVERAGE VELOCITY BETWEEN 5 AND 10 FEET PER SECOND. IF OPERATING PRESSURES ARE OVER 65 PSI USE THE NEXT LARGER WATER HAMMER ARRESTER UNIT. WHEN PRESSURES ARE ANTICIPATED ABOVE 85 PSI A PRESSURE REDUCING VALVE IS RECOMMENDED.

10 P6.01 SIZING AND PLACEMENT OF WATER HAMMER ARRESTER (WHA)
N.T.S.

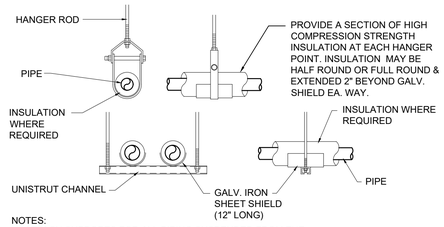
UL SYSTEM NO. C-BJ-5011
F RATING - 2 HR.
T RATING - 2 HR.



1. FLOOR OR WALL ASSEMBLY - MIN 5-½ IN. THICK REINFORCED LIGHTWEIGHT OR NORMAL WEIGHT (100-150 PCF) CONCRETE. WALL MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCKS*. MAX DIAM. OF OPENING IS 14 IN SEE CONCRETE BLOCKS (CAZT) CATEGORY IN THE FIRE RESISTANCE DIRECTORY FOR NAMES OF MANUFACTURERS.
2. THROUGH PENETRANTS - ONE METALLIC PIPE OR TUBING TO BE INSTALLED EITHER CONCENTRICALLY OR ECCENTRECALLY WITHIN THE FIRESTOP SYSTEM. PIPE OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY.
3. PIPE COVERING* - CELLULAR GLASS INSULATION - MAX 3 IN. THICK CELLULAR GLASS UNITS SIZED TO THE OUTSIDE DIAM. OF THE STEEL PIPE AND SUPPLIED IN NOM 24 IN. LONG HALF SECTIONS OR NOM 18 IN. LONG SEGMENTS. THE ANNULAR SPACE SHALL BE MIN 0 IN. (POINT CONTACT) TO MAX 2 IN. PIPE INSULATION INSTALLED ON PIPE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
4. PITTSBURGH CORING CORP - FOAMGLAS
   METAL JACKET - MIN. 12 IN. LONG JACKET FORMED ON MIN. 0.010 IN. THICK STEEL OR ALUMINUM SHEET CUT TO WRAP TIGHTLY AROUND THE PIPE INSULATION WITH A MIN. 2 IN. LAP. JACKET SECURED WITH MIN. ½ IN. WIDE STAINLESS STEEL HOSE CLAMPS OR BANDS LOCATED WITHIN 2 IN. OF EACH END OF THE JACKET AND SPACED A MAX. OF 10 IN. O.C.
   JACKET TO BE INSTALLED WITH EDGES ABUTTING SURFACE OF CAULK FILL MATERIAL (ITEM 5) ON BOTH SURFACES OF WALL. METAL JACKET TO BE USED IN ADDITION TO ANY OTHER JACKETING MATERIAL WHICH MAY BE REQUIRED TO OR DESIRED ON THE PIPE INSULATION.
5. FIRESTOP SYSTEM - THE FIRESTOP SYSTEM SHALL CONSIST OF THE FOLLOWING:
   A PACKAGING MATERIAL - MIN 5 IN. THICKNESS OF MIN. 4 PCF MINERAL WOLL BATT INSULATION FIRMLY PACKED INTO OPENING AS A PERMANENT FORM. PACKING MATERIAL TO BE RECESSED FROM TOP SURFACE OF FLOOR OR FROM BOTH SURFACES OF WALL AS REQUIRED TO ACCOMMODATE THE REQUIRED THICKNESS OF FILL MATERIAL.
   B FILL, VOID OR CAVITY MATERIAL* - SEALANT - MIN. ½ IN. THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH TOP SURFACE OF FLOOR OR WITH BOTH SURFACES OF WALL. AT POINT CONTACT LOCATION BETWEEN PENETRANT AND PERIPHERY OF OPENING, A MIN. ½ IN. DIAM. BEAD OF FILL MATERIAL SHALL BE APPLIED AT THE PERIPHERY OF OPENING/PIPE COVERING INTERFACE ON TOP SURFACE OF FLOOR ASSEMBLY OR BOTH SURFACES OF WALL ASSEMBLY.
   JOHNS MANVILLE INTERNATIONAL INC - FIRETEMP
*BEARING THE UL CLASSIFICATION MARK

2-HOUR RATED

8 P6.01 TYPICAL PIPE PENETRATION (ALL LOCATIONS)
N.T.S.



NOTES:
1. ATTACH SUPPORTS FOR ALL PIPING SUSPENDED FROM THE STEEL STRUCTURE TO THE TOP CORD OF JOISTS OR BEAMS.
2. PROVIDE COPPER OR PLASTIC COATED HANGERS FOR NON-INSULATED COPPER PIPE.

9 P6.01 PIPE SUPPORT HANGERS
N.T.S.

NJ Certificate of Authorization

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PLUMBING SCHEDULE & DETAILS
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P6.01

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Devices

SYMBOL	DESCRIPTION
#	**SIMPLEX RECEPTACLE (WALL) -** WALL MOUNTED 20A, 120V RECEPTACLE TO CIRCUIT INDICATED
#	**DUPLEX RECEPTACLE (WALL) -** WALL MOUNTED 20A, 120V RECEPTACLE TO CIRCUIT INDICATED
#	**DOUBLE DUPLEX (QUAD) RECEPTACLE (WALL) -** WALL MOUNTED 20A, 120V RECEPTACLE TO CIRCUIT INDICATED
#	**SPECIAL PURPOSE RECEPTACLE (WALL) -** WALL MOUNTED SPECIAL PURPOSE RECEPTACLE TO CIRCUIT INDICATED. COORDINATE AMPERAGE & NEMA CONFIGURATION WITH EQUIPMENT SERVED.
#	**OVERHEAD CORD RECEPTACLE -** OVERHEAD CORD TYPE RECEPTACLE. REFER TO DETAIL FOR ADDITIONAL INFORMATION. CORDREEL UNLESS INDICATED AS "F" - FIXED LENGTH.
# # #	**MULTI-OUTLET ASSEMBLY -** SURFACE MOUNTED PLUGMOLD RACEWAY. SINGLE CIRCUIT - WIREMOLD SERIES 2000 SERIES 2000 OR EQUAL PLUGMOLD W/ SINGLE RECEPTACLES 12" O.C. DUAL CIRCUIT - WIREMOLD SERIES 2000 OR EQUAL PLUGMOLD W/ ALTERNATINGLY WIRED SINGLE RECEPTACLES 12" O.C.
#	**JUNCTION/PULL BOX -** CONNECT TO CIRCUIT NUMBER INDICATED. CONTRACTOR SHALL SIZE AS PER NEC REQUIREMENTS UNLESS SIZE IS INDICATED ON THE PLAN.
30/3	**DISCONNECT SWITCH, NON-FUSIBLE -** RATED AS INDICATED ON THE DRAWINGS, (EG. 30/3 INDICATES 30A, 3 POLE). IF NO RATING IS INDICATED, INSTALL A CODE SIZED SWITCH. INSTALL IN A NEMA-1 ENCLOSURE UNLESS NOTED OTHERWISE.
100/60/3	**DISCONNECT SWITCH, FUSIBLE -** RATED AS INDICATED ON THE DRAWINGS, (EG. 100/60/3 INDICATES 100A SWITCH, 60A FUSES, 3 POLE). IF NO RATING IS INDICATED, INSTALL A CODE SIZED SWITCH. INSTALL IN A NEMA-1 ENCLOSURE UNLESS NOTED OTHERWISE.
30/3	**DISCONNECT SWITCH, NON-FUSIBLE/MOTOR STARTER COMBO -** WITH OVERLOAD PROTECTION AND AUTO/OFF/HAND SELECTOR SWITCH OR START/STOP CONTROL STATION AS NOTED. SWITCH RATED AS INDICATED ON THE DRAWINGS, (EG. 30/3 INDICATES 30A SWITCH, 3 POLE). IF NO RATING IS INDICATED, INSTALL A CODE SIZED SWITCH. INSTALL IN A NEMA-1 ENCLOSURE UNLESS NOTED OTHERWISE. STARTER TYPE SHALL BE SELECTED AS DIRECTED IN MECH. DRAWINGS. STARTER & OVERLOAD SIZES SHALL BE SELECTED ACCORDING TO MOTOR HP RATING.
20/1 HP	**FRACTIONAL HORSE POWER MOTOR STARTER -** NON-FUSIBLE. TOGGLE-TYPE RATED AS INDICATED ON THE DRAWINGS, (EG. 20/1 INDICATES 20A, 1 POLE). IF NO RATING IS INDICATED, INSTALL A CODE SIZED SWITCH. INSTALL IN A NEMA-1 ENCLOSURE UNLESS NOTED OTHERWISE.
(#)	**MOTOR-** NUMBER INDICATES HP FOR 1HP AND LARGER. "F" INDICATES FRACTIONAL HP WHEN LESS THAN 1HP

GENERAL NOTE - WHEN USED, "#" REFERS TO THE CIRCUIT & PANEL NUMBER

DEVICE ABBREVIATIONS & DESIGNATIONS

ABBR.	DEFINITION
CH	**COUNTER HEIGHT -** RECEPTACLE TO BE MOUNTED AT COUNTER HEIGHT. REFER TO ARCH. DWGS FOR ADDITIONAL INFORMATION.
CLG	**CEILING MOUNTED -** DEVICE MOUNTED AT CEILING LEVEL. COORDINATE WITH CEILING TYPE.
EPO	**EMERGENCY POWER OFF -** REFER TO DETAIL FOR WIRING REQUIREMENTS
G	**GROUND FAULT CURRENT INTERRUPTER RATED**
H	**HORIZONTAL MOUNT -** RECEPTACLE TO BE MOUNTED HORIZONTAL.
IG	**ISOLATED GROUND**
IUC	**IN USE COVER -** RECEPTACLE WITH WEATHERPROOF IN-USE-COVER.
N#	**NEMA RATING -** NEMA DESIGNATION, WHEN INDICATED
S	**SPLIT CONTROLLED -** RECEPTACLE HOT TERMINAL SPLIT WITH 1 PLUG CONTROLLED. WIRE CONTROLLED PORTION PER PLUGLOAD MANUFACTURER'S PUBLISHED INFORMATION.
TV	**TELEVISION BOX -** MOUNT RECEPTACLE IN A RECESSED 3-GANG STEEL TV BOX WITH VOLTAGE DIVIDER. ARLINGTON MODEL TVBS507 OR EQUAL. STUB ¾"C FROM LOW VOLTAGE SIDE OF BOX TO ABOVE CEILING. BOX TO BE MOUNTED AT TV HEIGHT. REFER TO ARCH. DWGS FOR ADDITIONAL INFORMATION.
USB	**USB CHARGING PORTS -** RECEPTACLE TO HAVE TWO (2) INTEGRAL USB CHARGING PORTS.
WP	**WEATHERPROOF -** NEMA 3R ENCLOSURE

Distribution

SYMBOL	DESCRIPTION
BPLA1	**208Y/120V SURFACE MOUNTED PANELBOARD -** REFER TO PANEL SCHEDULE AND/OR ONE-LINE FOR ADDITIONAL INFORMATION. WHEN SHOWN, DASHED LINES W/ HATCH INDICATE CLEARANCE.
BPLA1	**208Y/120V FLUSH MOUNTED PANELBOARD -** REFER TO PANEL SCHEDULE AND/OR ONE-LINE FOR ADDITIONAL INFORMATION. WHEN SHOWN, DASHED LINES W/ HATCH INDICATE CLEARANCE.
BPHA1	**480Y/277V SURFACE MOUNTED PANELBOARD -** REFER TO PANEL SCHEDULE AND/OR ONE-LINE FOR ADDITIONAL INFORMATION. WHEN SHOWN, DASHED LINES W/ HATCH INDICATE CLEARANCE.
BPHA1	**480Y/277V FLUSH MOUNTED PANELBOARD -** REFER TO PANEL SCHEDULE AND/OR ONE-LINE FOR ADDITIONAL INFORMATION. WHEN SHOWN, DASHED LINES W/ HATCH INDICATE CLEARANCE.
SWITCHBOARD	**PAD MOUNTED SWITCHBOARD -** REFER TO ONE-LINE AND/OR SCHEDULE FOR ADDITIONAL INFORMATION. WHEN SHOWN, DASHED LINES W/ HATCH INDICATE CLEARANCE.
T-1	**TRANSFORMER (≥15kVA) -** "T-1" INDICATES TRANSFORMER DESIGNATION (TAG MAY BE INSIDE OR OUTSIDE, DEPENDING ON XFMR SIZE). REFER TO XFMR SCHEDULE AND/OR ONE-LINE FOR ADDITIONAL INFORMATION. TYPICALLY SHOWN ACTUAL SIZE ON PLANS.
T	**TRANSFORMER (<15kVA) -** TYPE AND LOCATION AS NOTED ON PLAN
UPS-A	**UNINTERRUPTIBLE POWER SUPPLY ("UPS") -** WHEN SHOWN, DASHED LINES W/ HATCH INDICATE CLEARANCE.
ATS-1	**AUTOMATIC TRANSFER SWITCH ("ATS") -** "ATS-1" INDICATES ATS DESIGNATION (TAG MAY BE INSIDE OR OUTSIDE, DEPENDING ON ATS SIZE). REFER TO ATS SCHEDULE AND/OR ONE-LINE FOR ADDITIONAL INFO. TYPICALLY SHOWN ACTUAL SIZE ON PLANS. WHEN SHOWN, DASHED LINES W/ HATCH INDICATE CLEARANCE.
ECB 100/30/3	**ENCLOSED CIRCUIT BREAKER ("ECB") -** RATED AS INDICATED ON THE DRAWINGS, (EG. 1000/30/3 INDICATES 100A FRAME, 30A FUSES, 3 POLE). IF NO RATING IS INDICATED, INSTALL A CODE SIZED BREAKER. INSTALL IN A NEMA-1 ENCLOSURE UNLESS NOTED OTHERWISE.
	NEC REQUIRED CLEAR SPACE - WHEN SHOWN, DASHED LINES W/ HATCH INDICATE CLEARANCE. INSTALL FIELD-PAINTED FLOOR MARKINGS, FLOOR MARKING TAPE, OR WARNING LABELS TO IDENTIFY REQUIRED EQUIPMENT WORKING CLEARANCES IN ALL NON-PUBLIC SPACES.

Fire Alarm

CONTROL DEVICES

SYMBOL	DESCRIPTION
FACP	**FIRE ALARM CONTROL PANEL ("FACP") -** PROVIDE 20A, 120VAC CIRCUIT
FAA	**FIRE ALARM ANNUNCIATOR -** (TEXTUAL BASED ANNUNCIATOR) PROVIDE 20A, 120VAC CIRCUIT
MIC	**MICROPHONE**
AMP	**AMPLIFIER -** CONTRACTOR SHALL DETERMINE QUANTITY REQUIRED AND COORDINATE PHYSICAL LOCATION(S) IN THE BUILDING WITH THE OWNER'S AUTHORIZED REPRESENTATIVE. DO NOT LOAD MORE THAN 80%.
NAC	**NOTIFICATION CIRCUIT POWER BOOSTER -** PROVIDE 20A, 120VAC CIRCUIT. CONTRACTOR SHALL DETERMINE QUANTITY REQUIRED AND COORDINATE PHYSICAL LOCATION(S) IN THE BUILDING WITH THE OWNER'S AUTHORIZED REPRESENTATIVE. DO NOT LOAD MORE THAN 80%.
RTS	**REMOTE TEST STATION -** WITH INDICATOR LIGHT. LOCATION SHALL BE IN AN ACCESSIBLE LOCATION AND AS PER THE OWNER'S AUTHORIZED REPRESENTATIVE. PROVIDE ONE FOR EACH DUCT SMOKE DETECTOR.

INITIATING DEVICES

SYMBOL	DESCRIPTION
S	**SMOKE DETECTOR -** PHOTOELECTRIC UNLESS NOTED OTHERWISE "ER" - INDICATES DETECTOR IS PROGRAMMED FOR ELEVATOR RECALL
S	**DUCT SMOKE DETECTOR -** (SUPPLY SIDE OF UNIT) WITH INTEGRAL RELAY FOR HVAC SHUTDOWN REQUIREMENTS.
A	**HEAT DETECTOR -** COMBO ROR/FIXED TEMPERATURE "A" - INDICATES MOUNTED ABOVE THE SUSPENDED CEILING
F	**HEAT DETECTOR -** FIXED TEMPERATURE (135° UNLESS NOTED OTHERWISE ON THE PLAN)
P	**MANUAL PULL STATION -** WITH LEXAN GUARD WITH AN INTEGRAL HORN. WHEN INSTALLED SURFACE MOUNTED, MOUNT PULL STATION ON MANUFACTURER'S SURFACE MOUNT RED BACKBOX.
CO	**CARBON MONOXIDE DETECTOR -** WITH INTEGRAL HORN

NOTE: ALL CEILING SURFACE MOUNTED DEVICES SHALL BE MOUNTED ON A ROUND WIREMOLD BACK BOX WITH A DIAMETER GREATER THAN THE DEVICE BASE.

NOTIFICATION APPLIANCES

SYMBOL	DESCRIPTION
CD	**COMBINATION SPEAKER/STROBE -** "CD" - MINIMUM CANDELA RATING "W" - MINIMUM TAP SETTING (WATTS). CAN BE ADJUSTED LOWER IN FIELD AS REQUIRED TO MEET AUDIBILITY REQUIREMENTS. "C" - CEILING MOUNTED (WALL MOUNTED IF NOT INDICATED) **SPEAKER ONLY -** "W" - MINIMUM TAP SETTING (WATTS). CAN BE ADJUSTED LOWER IN FIELD AS REQUIRED TO MEET AUDIBILITY REQUIREMENTS. "C" - CEILING MOUNTED (WALL MOUNTED IF NOT INDICATED)
CD	**COMBINATION HORN/STROBE -** "CD" - MINIMUM CANDELA RATING "C" - CEILING MOUNTED (WALL MOUNTED IF NOT INDICATED)
C	**HORN ONLY -** "C" - CEILING MOUNTED (WALL MOUNTED IF NOT INDICATED)
CD	**WALL MOUNTED STROBE ONLY -** "CD" - MINIMUM CANDELA RATING
CD	**CEILING MOUNTED STROBE ONLY -** "CD" - MINIMUM CANDELA RATING

NOTE: ALL SURFACE MOUNTED NOTIFICATION APPLIANCES SHALL BE MOUNTED ON THE MANUFACTURER'S SURFACE MOUNT RED BACK BOX.

INTERFACE DEVICES

SYMBOL	DESCRIPTION
AIM	**ADDRESSABLE INPUT MONITOR -** MONITOR SYSTEM INDICATED ON THE PLAN. ("MONITOR MODULE")
AOM	**ADDRESSABLE OUTPUT MONITOR -** TO CONTROL SYSTEM INDICATED. ("CONTROL MODULE")

MISCELLANEOUS DEVICES

SYMBOL	DESCRIPTION
DH	**MAGNETIC DOOR HOLDER -** 24VDC - CONNECT TO SYSTEM WITH AN "AOM" AS REQUIRED. PROVIDE POWER FROM THE NAC.

GENERAL NOTES

1. ALL INITIATING DEVICES AND NOTIFICATION APPLIANCES SUBJECT TO PHYSICAL DAMAGE SHALL BE INSTALLED WITH WIRE GUARDS. (I.E., IN GYMNASIUMS, LOCKER ROOMS, EXTERIOR LOCATIONS, ETC.)
2. WHEN IN AN INDIVIDUAL ROOM AND INDICATED AS CEILING MOUNTED, ALL DEVICES SHALL BE PLACED AS CLOSE AS PRACTICAL TO THE CENTER OF THE SPACE UNLESS INDICATED OTHERWISE.

Circuitry

SYMBOL	DESCRIPTION
#	**HOMERUN -** HOMERUN TO CIRCUIT(S) INDICATED. IF NOT INDICATED ON THE PLAN, REFER TO THE PANEL SCHEDULE FOR CONDUCTOR/RACYEWAY INFORMATION.
	CONDUCTOR INDICATOR - FULL HASHES INDICATE UNDGROUNDED "HOT" CIRCUIT CONDUCTORS. HALF HASHES INDICATE GROUNDED NEUTRAL CONDUCTORS. ALL CIRCUITS CONTAIN A GROUND CONDUCTOR. ALL 120V & 277V CIRCUITS SHALL HAVE A DEDICATED NEUTRAL CONDUCTOR. SHARED NEUTRAL HOMERUNS ARE NOT PERMITTED. - (1) HOT, (1) NEUTRAL (eg., 120 OR 277, 1ϕ) - (2) HOT, (2) NEUTRAL (eg., 120 OR 277, 1ϕ) MULTI-NEUTRAL, MULTI-CIRCUIT) - (2) HOT, (0) NEUTRAL (eg., 208 OR 480, 1ϕ) - (2) HOT, (1) NEUTRAL (eg., 208 OR 480, 1ϕ, 3 WIRE) - (3) HOT, (0) NEUTRAL (eg., 208 OR 480, 3ϕ) - (3) HOT, (1) NEUTRAL (eg., 208 OR 480, 3ϕ, 4 WIRE)

Linetype

THROUGHOUT THE DRAWINGS DIFFERENT LINETYPES ARE USED IN COMBINATION WITH THE SYMBOLS TO INDICATE THE STATUS OF ITEMS AS EXISTING, TO BE DEMOLISHED AND TO BE INCLUDED AS PART OF NEW WORK. THE STATUS OF ITEMS USING THESE LINETYPES ARE RELATIVE TO THE VIEW IN WHICH THEY APPEAR. PHASING (IF) SHOWN IN DRAWINGS IS NOT INTENDED TO FULLY DESCRIBE ALL NECESSARY CONSTRUCTION PHASING, WHICH IS DETERMINED BY THE CONTRACTOR AS PART OF THEIR RESPONSIBILITIES. ANY SUCH PHASES DESCRIBED IN THE CONSTRUCTION DOCUMENTS ARE GENERAL AND ONLY INTENDED TO INDICATE A BROAD ORDER FOR THE SAKE OF DESCRIBING THE PROJECT. THE FOLLOWING LINETYPES MAY BE USED ON ANY DEVICE, EQUIPMENT, NOTE, LINE, ETC.

EXISTING — — — — DEMOLITION ——— PROPOSED

Lighting Fixture Schedule

TAG/SYMBOL	BASIS OF DESIGN MAKE	BASIS OF DESIGN MODEL	DESCRIPTION	VOLTAGE	WATTS	LUMENS	CRI/ TEMP.	NOTES
L1	BROWNLEE LIGHTING INC	2061-18-BN-R23-FL1-35K	ROUND DOWNLIGHT	277V /120V	22.86 W	2,105 lm	+80/3,500K	1
L2	GOTHAM	IVO6-D-15LM-35K-80CRI-WD-MIN10-MVOLT-ZT-NCH-P-WMR	ROUND DOWNLIGHT	277V /120V	14.95 W	1,386 lm	+80/3,500K	1
L3	LITHONIA	CPX-2X4-4000LM-80CRI-35K-SWL-MIN1-ZT-MVOLT	2'X4' LED PANEL	277V /120V	36.7 W	4,818 lm	+80/3,500K	1
LE1	EXISTING	EXISTING	RELOCATED EXISTING 2'X4' LED	EXISTING	EXISTING	EXISTING	EXISTING	-
LE2	EXISTING	EXISTING	RELOCATED EXISTING 6"X4' LED	EXISTING	EXISTING	EXISTING	EXISTING	-
LE3	EXISTING	EXISTING	RELOCATED EXISTING 6"X8' LED	EXISTING	EXISTING	EXISTING	EXISTING	-
LE4	EXISTING	EXISTING	RELOCATED EXISTING 6"X4' LED	EXISTING	EXISTING	EXISTING	EXISTING	-
X1EM WG	LITHONIA	ELM2L UVOLT LTP M12	STAND-ALONE EMERGENCY LIGHTING UNIT	277V /120V	4.8 W	-	-	1,2
X2EM WG	LITHONIA	LHQM-S-W-RG-MVOLT-EL-SD	COMBINATION EXIT SIGN & EMERGENCY LIGHTING UNIT	277V /120V	3.5 W	-	-	1,2
X3EM	LITHONIA	WDGE2 LED-P2-35K-80CRI-VF-MVOLT-SRM-E20WC-PIR1FC3V-XXXXX	OUTDOOR WALL-MOUNTED SECURITY LIGHT	277V /120V	18 W	2,015 lm	+80/3,500K	1,2

LIGHTING FIXTURE SCHEDULE NOTES:

1. CONTRACTOR SHALL COORDINATE FINAL COLORS & FINISHES FOR ALL LIGHTING FIXTURES WITH ARCHITECT, PRIOR TO PURCHASE.
2. "WG" SHALL DESIGNATE: CONTRACTOR SHALL FURNISH WITH NEW LITHONIA LIGHTING "ELA WG#" BACK-MOUNT WIREGUARD ACCESSORY & INSTALL TO PROVIDE PROTECTION FOR DESIGNATED LIGHTING FIXTURE. COORDINATE EXACT MODEL WIREGUARD MODEL # COMPATIBLE WITH LIGHTING FIXTURE MANUFACTURER'S INSTALLATION INSTRUCTIONS & GUIDELINES, PRIOR TO PURCHASE.

Automatic Lighting Control Schedule

SYMBOL	BASIS OF DESIGN MAKE	BASIS OF DESIGN MODEL	DESCRIPTION	SENSOR	VOLT.	NOTE
S	GENERIC	GENERIC	LINE VOLTAGE SNAP SWITCH	NONE	120V 277V	-
SK	LEGRAND	1250L	LOW VOLTAGE KEY SWITCH	NONE	LOW VOLT.	5,7
SM	NLIGHT	RPODLA-MVOLT-WH-G2	WIRELESS CONTROL (LINE VOLTAGE POWERED) MOMENTARY CONTACT SWITCH	NONE	120V /277V	6,7
SD	NLIGHT	RPODLA-DX-MVOLT-WH-G2	WIRELESS CONTROL (LINE VOLTAGE POWERED) DIMMING SWITCH	NONE	120V /277V	7
OS #WG	NLIGHT	RCMS-PDT-9-G2	CEILING MOUNTED WIRELESS CONTROL (LOW VOLTAGE POWERED) OCCUPANCY SENSOR & PHOTOSENSOR	PIR/MICROPHONICS & DAY-LIGHT	LOW VOLT.	3,8,12
VS #WG	NLIGHT	RCMS-PDT-9-G2	CEILING MOUNTED WIRELESS CONTROL (LOW VOLTAGE POWERED) OCCUPANCY SENSOR & PHOTOSENSOR	PIR/MICROPHONICS & DAY-LIGHT	LOW VOLT.	4,8,12
DS #WG	NLIGHT	RCMS-PDT-9-G2	CEILING MOUNTED WIRELESS CONTROL (LOW VOLTAGE POWERED) OCCUPANCY SENSOR & PHOTOSENSOR	PIR/MICROPHONICS & DAY-LIGHT	LOW VOLT.	8,12
RC	NLIGHT	RPP20-D 24V-EFP-G2	LINE VOLTAGE DIMMING POWER PACK / ROOM CONTROLLER	NONE	120V /277V	1,2

LIGHTING CONTROL SCHEDULE NOTES:

1. PROVIDE ROOM CONTROLLER(S)/POWER PACK(S)/RELAY PACK(S)/ZONE CONTROLLER(S)/EMERGENCY SHUNT RELAY(S) WITHIN ACCESSIBLE LOCATION. WHEN IT IS NOT POSSIBLE TO MOUNT ROOM CONTROLLERS ABOVE FINISHED CEILING IN AN ACCESSIBLE LOCATION, PROVIDE ROOM CONTROLLERS IN NEAREST ELECTRICAL ROOM STORAGE ROOM, OR JANITOR'S CLOSET. FIELD COORDINATE FINAL MOUNTING LOCATION WITH OWNER AND ARCHITECT.
2. ROOM CONTROLLER(S)/POWER PACK(S)/RELAY PACK(S)/ZONE CONTROLLER(S)/EMERGENCY SHUNT RELAY(S) WHERE SHOWN ARE DIAGRAMMATIC FOR REFERENCE ONLY. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH LIGHTING CONTROL SYSTEM VENDOR AND PROVIDE QUANTITY & TYPE NECESSARY FOR A FULLY FUNCTIONAL, CODE-COMPLIANT INSTALLATION; ENSURE ALL SWITCH ZONES SHOWN ON THE DRAWINGS ARE PROVIDED. PROVIDE WITH "**ER**" (**UL924 EMERGENCY OPERATION, VIA POWER SENSE LEADS**) OR "**EM**" (**UL924 EMERGENCY OPERATION, VIA SEPARATE NORMAL POWER SENSING DEVICE**] EMERGENCY OPTION AS NECESSARY; UTILIZE "**EM**" OPTION UNLESS REQUIRED TO UTILIZE "**ER**" OPTION FOR FUNCTIONALITY.
3. SENSOR SHALL BE PROGRAMMED FOR "AUTOMATIC-ON" OPERATION.
4. SENSOR SHALL BE PROGRAMMED FOR "MANUAL-ON" OPERATION.
5. PROVIDE WITH NLIGHT AIR "**RSI SYSTEM INPUT DEVICE**' (MODEL #: '**RSI SERIES**') LOCATED AT FIELD COORDINATED LOCATION ABOVE ACCESSIBLE CEILING. CONNECT KEY SWITCH TO '**RSI SYSTEM INPUT DEVICE**' WITH NEW 24VDC POWER WIRING, & WIRELESSLY CONNECT '**RSI SYSTEM INPUT DEVICE**' TO NLIGHT AIR SYSTEM / ASSOCIATED FIXTURES TO BE CONTROLLED.
6. WHERE SWITCH IS DESIGNATED "2-POLE" ON ELECTRICAL 1ST FLOOR LIGHTING PLAN (SHEET E5.01), PROVIDE "**2P**" (**2 POLE**) POLES & SCENES OPTION FOR DESIGNATED SWITCH.
7. CONTRACTOR SHALL COORDINATE FINAL DEVICE & WALL / FACE PLATE COLORS FOR ALL LIGHTING SWITCHES WITH ARCHITECT, PRIOR TO PURCHASE.
8. "#" SHALL INDICATE LENS ASSOCIATED WITH THE DEVICE.
   8.1. "10" SHALL INDICATE TO PROVIDE SENSOR WITH LARGE MOTION LENS.
   8.2. "9" SHALL INDICATE TO PROVIDE SENSOR WITH SMALL MOTION LENS.
9. WHEN USED, SMALL CASE LETTERS, (I.E.: 'a', 'b', 'c', etc.) DENOTES SWITCHING CONTROL (REFER TO FIXTURES ON PLAN). IF NOT USED, THE COMPONENT CONTROLS ALL FIXTURES IN THE SPACE. THIS NOTE APPLIES TO ALL ITEMS WITHIN SCHEDULE.
10. PROVIDE ANY LOW VOLTAGE WIRING BETWEEN LIGHTING CONTROL COMPONENTS AS REQUIRED. COORDINATE EXACT ROUTING IN FIELD. THIS NOTE APPLIES TO ALL ITEMS WITHIN SCHEDULE.
11. REFER TO ELECTRICAL LIGHTING CONTROL WIRING & CONNECTION DIAGRAMS (SHEET E5.51) FOR TYPICAL LIGHTING CONTROL WIRING DIAGRAMS, ISSUED FOR REFERENCE ONLY. REFER TO MOST CURRENT SET OF MANUFACTURER'S INSTALLATION INSTRUCTIONS, GUIDELINES, & WIRING DIAGRAMS FOR MORE EXACT INFORMATION & REQUIREMENTS. THIS NOTE APPLIES TO ALL ITEMS WITHIN SCHEDULE.
12. "WG" SHALL DESIGNATE: CONTRACTOR SHALL FURNISH WITH NEW ACUITY BRANDS "SENSORSWITCH WG1" CEILING MOUNTED SENSOR WIRE GUARD ACCESSORY & INSTALL TO PROVIDE PROTECTION FOR DESIGNATED SENSOR.

GENERAL NOTES:
NOT ALL SYMBOLS/ABBREVIATIONS ON THIS DRAWING WILL BE USED ON THIS PROJECT.

1. REFER TO INDIVIDUAL DRAWINGS FOR ADDITIONAL GENERAL & KEY NOTES.
2. SYMBOL SIZE DOES NOT IMPLY EQUIPMENT SIZE, UON.
3. MOUNTING HEIGHT INDICATED IN DETAIL AND ON THE DRAWINGS SHALL BE THE DISTANCE MEASURED FROM THE CENTER OR OPERATIONAL PORTION OF THE DEVICE TO THE FINISHED FLOOR, UON.

Low Voltage/Communication/Data

SYMBOL	DESCRIPTION
#	**DATA OUTLET -** 2-GANG BACKBOX W/ 1-GANG RAISED COVER FOR DATA OUTLET MOUNTED 18" A.F.F. (UNLESS NOTED OTHERWISE). PROVIDE 1¼"C, CONCEALED IN WALL, WITH CATEGORY 6 CABLE(S) EXTENDING FROM THE DATA JACK TO THE IT CLOSET (C20 IDF). EXTEND CDT 6" ABOVE CEILING SPACE & PROVIDE PROTECTIVE GROMMETS AT END OF OPEN CDT. SUPPORT CABLES WITH J-HOOKS UON. - # INDICATES NUMBER OF PORTS/HOMERUNS. WHEN MORE THAN ONE, TERMINATE IN A MULTI-SOCKET RJ45 FACEPLATE.
SPK	**SPEAKER -** 2-GANG BACKBOX W/ 1-GANG RAISED COVER FOR DATA OUTLET MOUNTED 18" A.F.F. (UNLESS NOTED OTHERWISE) WITH CATEGORY 6 CABLE(S) EXTENDING FROM THE DATA JACK TO THE IT CLOSET (C20 IDF). CABLE(S) SHALL BE SLEEVED WITH ¾"C MIN. INTO CEILING CAVITY WHERE INSTALLED CONCEALED IN PARTITION WALLS OR FLOORS. SUPPORT CABLES WITH J-HOOKS UON. - # INDICATES NUMBER OF PORTS/HOMERUNS. WHEN MORE THAN ONE, TERMINATE IN A MULTI-SOCKET RJ45 FACEPLATE.
WAP	**WIRELESS ACCESS POINT -** 2-GANG BACKBOX W/ 1-GANG RAISED COVER FOR DATA OUTLET MOUNTED 18" A.F.F. (UNLESS NOTED OTHERWISE) WITH CATEGORY 6 CABLE(S) EXTENDING FROM THE DATA JACK TO THE IT CLOSET (C20 IDF). CABLE(S) SHALL BE SLEEVED WITH ¾"C MIN. INTO CEILING CAVITY WHERE INSTALLED CONCEALED IN PARTITION WALLS OR FLOORS. SUPPORT CABLES WITH J-HOOKS UON. - # INDICATES NUMBER OF PORTS/HOMERUNS. WHEN MORE THAN ONE, TERMINATE IN A MULTI-SOCKET RJ45 FACEPLATE.
	SYSTEM CLOCK - INSTALL A CLOCK COMPATIBLE WITH THE EXISTING CLOCK SYSTEM. EC SHALL COORDINATE WITH THE OWNERS EXISTING CLOCK SYSTEM VENDOR AND/OR INSTALLATION.
FOR SUSPENDED CEILINGS	FURNISH AND INSTALL COMMERCIAL ELECTRIC 21.5 CU. IN. SUSPENDED CEILING BRACE ASSEMBLY, OR APPROVED EQUIVALENT, TO SUPPORT THE DEVICE SPECIFIED. (APPLICABLE TO ALL DATA DEVICES)

DEVICE ABBREVIATIONS & DESIGNATIONS

CH	**COUNTER HEIGHT -** DEVICE TO BE MOUNTED AT COUNTER HEIGHT. REFER TO ARCH. DWGS FOR ADDITIONAL INFORMATION.
CLG	**CEILING MOUNTED -** DEVICE MOUNTED AT CEILING LEVEL. COORDINATE WITH CEILING TYPE.
W	**WALL MOUNTED -** SINGLE PORT, MOUNTED AT 80" A.F.F. FOR A WALL MOUNTED PHONE.

Abbreviations

@	AT	ETR	EXISTING TO REMAIN		OPERATED
A	AMPERE	ER	EXISTING RELOCATED	MLO	MAIN LUGS ONLY
AC	ARMORED CABLE	EQUIP	EQUIPMENT	MTD	MOUNTED
AMP	AMPERE	EWC	ELECTRIC WATER COOLER	MTS	MANUAL TRANSFER SWITCH
ABV	ABOVE	EX/(E)	EXISTING TO REMAIN	MV	MEDIUM VOLTAGE
AF	AMP FRAME	F	FUSED(D)	N	NEUTRAL
AFC	ABOVE FINISHED CEILING	FA	FIRE ALARM	NC	NORMALLY CLOSED
AFF	ABOVE FINISHED FLOOR	FBO	FURNISHED BY OWNER	NIC	NOT IN CONTRACT
AFG	ABOVE FINISHED GRADE	FD	FEEDER DUCT	NO	NORMALLY OPEN
AIC	AMPERE INTERRUPTING CAPACITY	FDR	FEEDER	NTS	NOT TO SCALE
AL	ALUMINUM	FHC	FIRE HOSE CABINET	OC	ON CENTER
ALT	ALTERNATE	FI	FILM ILLUMINATOR	OCB	OIL CIRCUIT BREAKER
AM	AMMETER	FL	FLOOR	OCP	OVERCURRENT PROTECTION
ANNUN	ANNUNCIATOR	FLUOR	FLUORESCENT	OD	OUTSIDE DIMENSION
ANT	ANTENNA	FS	FLOW SWITCH	P	POLE
ARCH	ARCHITECT	FUT	FUTURE	PB	PULL BOX
AS	AMMETER SWITCH	EGC	EQUIPMENT GROUND CONDUCTOR	PC	PLUMBING CONTRACTOR
AT	AMP TRIP	GA	GAUGE	PF	POWER FACTOR
ATC	AUTOMATIC TEMPERATURE CONTROL	GC	GENERAL CONTRACTOR	PH	PHASE
ATS	AUTOMATIC TRANSFER SWITCH	GFI	GROUND FAULT INTERRUPTER	ϕ	PHASE
AUX	AUXILIARY	GFP	GROUND FAULT PROTECTION	PL	PILOT LIGHT
BD	BUS DUCT	GFSC	GROUND FAULT SENSING RELAY	PNL	PANEL
BIL	BASIC IMPULSE LEVEL	GND	GROUND	PRI	PRIMARY
BKBD	BACKBOARD	GSC	SYSTEM CIRCUIT GROUND CONDUCTOR	PS	PULL STATION
BKR	BREAKER	HID	HIGH INTENSITY DISCHARGE	PSI	POUNDS PER SQUARE INCH
C	CONDUIT	HOA	HAND-OFF-AUTOMATIC	PT	POTENTIAL TRANSFORMER
CDT	CONDUIT	HORIZ	HORIZONTAL	PWR	POWER
CAB	CABINET	HP	HORSEPOWER	RCVR	RECEIVER
C/B	CIRCUIT BREAKER	HT	HEIGHT	RE	REMOVE EXISTING
CBL	CABLE	HV	HIGH VOLTAGE	REQ	REQUIRED
CC	CASEWORK CONTRACTOR	HVAC	HEATING, VENTILATING, AIR CONDITIONING	SEC	SECONDARY
CKT	CIRCUIT	ID	INSIDE DIMENSION	SLD	SINGLE LINE DIAGRAM
CLG	CEILING	ILL	ILLUMINATION	SLV	SLEEVE
CNBD	COULD NOT BE DETERMINED	IMC	INTERMEDIATE METAL CONDUIT	SPEC	SPECIFICATION
CONN	CONNECTION	INV	INVERT	SS	SUBSTATION
CONST	CONSTRUCTION	JB	JUNCTION BOX	ST	SHUNT TRIP
CONT	CONTINUOUS	JUNC	JUNCTION	STD	STANDARD
CONTR	CONTRACTOR	KVA	KILOVOLT-AMPERE	STR	STARTER
CPT	CONTROL POWER TRANSFORMER	KW	KILOWATT	SW	SWITCH
CT	CURRENT TRANSFORMER	KWH	KILOWATT-HOUR	SWBD	SWITCHBOARD
CU	COPPER	LA	LIGHTNING SURGE ARRESTER	SWGR	SWITCHGEAR
DEMO	DEMOLITION	LCP	LOCAL CONTROL PANEL	SYS	SYSTEM
DC	DIRECT CURRENT	LIM	LINE ISOLATION MONITOR	TEL	TELEPHONE
DIA	DIAMETER	LO	LUGS ONLY	TEMP	TEMPERATURE
DIC	DICTATION	LS	LIMIT SWITCH	TERM	TERMINAL
DISC	DISCONNECT	LT	LIGHT	TV	TELEVISION
DIST	DISTRIBUTION	LTG	LIGHTING	TYP	TYPICAL
DWG	DRAWING	LV	LOW VOLTAGE	UC	UNDERCOUNTER
DP	DISTRIBUTION PANEL	M	MAIN	U/F	UNFUSED
E	EMERGENCY	MAX	MAXIMUM	UL	UNDERWRITERS' LABORATORY
EA	EACH	MC	MECHANICAL CONTRACTOR	UON	UNLESS OTHERWISE NOTED
EC	ELECTRICAL CONTRACTOR	MCB	MAIN CIRCUIT BREAKER	UV	UNDER VOLTAGE
EDP	ELECTRONIC DATA PROCESSING	MCC	MOTOR CONTROL CENTER	V	VOLT
EGC	EQUIPMENT GROUND CONDUCTOR	MCP	MOTOR CIRCUIT PROTECTOR	VERT	VERTICAL
ELEC	ELECTRICAL	ME	MODIFY EXISTING	VM	VOLTMETER
ELEV	ELEVATOR	MFR	MANUFACTURER	VS	VOLTMETER SWITCH
EMT	ELECTRICAL METALLIC TUBING	MIN	M

Electrical General Notes

Project Information:

1. Unless specifically noted otherwise, it shall be understood that when the words "Owner" or "Client" are used in these drawings they are interchangeable and all refer to Gloucester County Board of Education.
2. Unless specifically noted otherwise, it shall be understood that when the words "Architect", "Engineer", or "A/E" are used in these drawings they are interchangeable an all refer to LAN Associates, Engineering, Planning, Architecture Surveying ("LAN").
3. Unless specifically noted otherwise, it shall be understood that when the word "Contractor" is used in the Electrical (E#.##) drawings and/or Electrical Specification sections it refers to the Electrical Contractor.
4. Where any device or part of equipment is referred to in these drawings in the singular number (e.g., "the switch", "the receptacle"), this reference shall be deemed to apply to as many such devices as are required to complete the installation as shown on the drawings.
5. Health, safety, and critical operating equipment shall not be compromised without owner's authorization. Schedule shutdown during off hours and implement and maintain a temporary operational plan.

Code & Standards Compliance:

6. Where codes are referenced, they shall be the version enforced as of permit submission date.
7. Code compliance is mandatory. Nothing in these Drawings and Specifications permits work not conforming to code. Where work is shown to exceed minimum code requirements, comply with drawings and specifications. When differences in utility specifications or standards, governmental ordinances or codes occur, the more stringent requirements shall govern the installation.
8. The electric installation shall be in accordance with the currently enforced edition of the National Electrical Code (NEC), National Electrical Safety Code (NESC), American Electricians' Handbook, International Building Code (IBC), Americans with Disabilities Act (ADA), NFPA 55 & 99 ASHRAE 90.1 and NEC Standard of installation. Wherever in the documents the word "code" is stated, the more stringent of the above referenced codes is implied.
9. All contractor supplied materials/equipment shall be new and be UL Listed or approved by another Nationally Recognized Testing Laboratory (NRTL).
10. The contractor shall pay for and obtain all permits and inspections required by the drawings, building safety codes and ordinances, and the rules and regulations of any legal body having jurisdiction. Permits and inspections shall be included in the base bid and shall not be cause for an extra.
11. The Contractor shall conform to all safety rules and other regulations, etc. pertaining to construction work on the client's premises. The contractor shall be responsible for ensuring that all rules and regulations have been met and coordinate their work with the client's responsible personnel.
12. All electrical equipment and raceways permanently attached to structures, including supporting structures and attachments to non-building structures, shall be anchored for seismic loading to resist a horizontal force action in any direction. The Contractor shall provide seismic restraints for all conduits larger than 2½" trade diameter. Provide sway braces for conduit and equipment suspended from the overhead. Provide anchor bolts for floor and wall mounted equipment. The installation shall meet the requirements of International Building Code (IBC) as it applies to electrical equipment for Earthquake Loads.
13. The contractor shall review the code compliance or egress drawings and identify all penetrations through fire and/or smoke partitions, floors or roofs. Patch compromised partitions to match fire and/or smoke resistance rating as stated on the code compliance drawings.

General Procedures:

14. All equipment shall be as indicated by the Engineer/Architect.
15. Any cost incurred by the acceptance of substitutions shall be borne by the contractor. Proof for the equality of the substitutions shall be by the contractor and differences shall be enumerated with the submittal. Submission without the differences noted may be grounds for rejection without review. Refer to submittal requirements within the specifications for additional information.
16. Electrical components, including but not limited to conductor sizes, overcurrent protection devices and disconnect switches are based on the power requirements of the equipment indicated on the contract documents. All costs (including additional design fees as required) associated with changes to these power requirements shall be the responsibility of the contractor making the change.
17. Obtain shop drawings and wiring diagrams for the proper installation of related electrical work prior to installation.
18. The contractor shall remove and reinstall all ceiling systems as required for the installation of new electrical work and replace in kind, any components damaged by personnel or equipment during performance of the work.
19. The Contractor shall be responsible for the removal of debris generated by their work and workers at the end of each working day and for general good housekeeping by their workers. The Contractor shall provide required refuse containers.
20. Unless otherwise indicated on the mechanical schedules/drawings, the contractor shall provide and install all disconnect switches for the mechanical equipment (i.e., roof top HVAC units, exhaust fans, variable air volume devices, etc.). The disconnecting means for all HVAC equipment must be located within sight of the unit and must be capable of being locked in the open position.
21. Unless otherwise indicated in the contract documents, all work shall comply with the current version of NEIS NECA 1 - "Standard for Good Workmanship in Electrical Construction".

Site Conditions/Drawing Coordination:

22. These drawings and specifications illustrate the work to be performed. The Engineer is not responsible for means, methods, techniques, sequences, and procedures used to do the work, or the safety aspects of constructions, and nothing on these drawings expressed or implied changes this condition.
23. Prior to bidding or starting work the contractor shall visit the project site to determine the conditions under which the work is to be performed and shall be responsible for knowing how they will affect the work. A site visit shall be scheduled with the client's representatives. Additionally, the contractor shall field verify all field conditions, site dimensions and room layouts. Submission of a bid to perform this work is an acknowledgement of these responsibilities, and that they have been fully considered in planning of the work and the bid price. No claims or extra charges due to these conditions will be forthcoming.
24. The client will occupy the site and existing building during the entire construction period. Cooperate with the client during construction operations to avoid conflicts. Perform the work so as not to interfere with the client's normal operations. Schedule all power outages, with the client's approval, for overtime on Sundays and/or Holidays at no additional cost to the client.
25. Existing project conditions indicated are based on field observations, existing design and construction documents, and existing record documents and are intended to indicate the scope of the work affected by this project. If conditions encountered differ from what is shown, it shall be immediately brought to the attention of the engineer.
26. The contractor shall make their own takeoff on all quantities. It shall be their responsibility and at their cost to include all equipment and material to comply with the intent of the drawings.
27. Circuit numbers of existing panels requiring modifications are for reference purposes only. The contractor shall be responsible for correctly phasing the circuits in panels to maintain proper phase balance.
28. Existing Circuit Designations:
    a. All reference to existing circuit designations is based on previous project documentation or field documentation at the time of design. The contractor shall consult with the engineer if actual conditions do not coincide with the indicated re-distribution or other use of existing circuits indicated.
    b. The total connected load for any general purpose (protected at 20A) branch circuit which is re-distributed as a part of this project shall not exceed 13A.
    c. Any deviation, as may be directed by the engineer, from the indicated circuit structure specified in this drawing set will require both verification by the contractor that the total connected load on the associated supply conductors is both within the above specified limit and documented in the as-built drawings.
29. Drawings shall not be scaled. The electrical installation shown is typically represented diagrammatically and indicates the general arrangement of systems and work. Although size and location of equipment is drawn to scale wherever possible, the contractor shall make use of all data in the contract documents and verify information at the project site. The locations and arrangements of equipment, devices, switchboards, panelboards, etc. are designed to show preferred configurations to suit known conditions but are approximate and are subject to modifications caused by structural conditions and other existing or proposed equipment. The locations are subject to such modifications as may be found necessary or desirable at the time of installation in order to accommodate field conditions and coordination requirements. The Contractor shall follow the intent of the drawings in "laying out" the work and coordinate their work with other trades to verify spacing criteria. The contractor shall determine rough-in locations required which will affect such coordination. The contractor shall coordinate all work and shall make such changes without extra charge.
30. The contract drawings typically do not depict the diagrammatic arrangement of raceways, conduits, feeders, cables, instrumentation and control circuits, etc, herein after referred to as "conduit runs." Conduit runs, if shown, have been depicted with the intention of most clearly indicating the proposed routing. Actual runs may differ if kept within the requirements and provisions of these specifications providing that all modifications have been shown in shop drawings. The Contractor is responsible to determine conduit runs to "clear" piping, ductwork, access doors, and other obstructions as applicable. The contractor shall coordinate the conduit runs with the work of other trades, and alter where necessary, to avoid interference.
31. When requested on the drawings, before the relevant work proceeds the Contractor shall prepare and submit shop drawings depicting the proposed conduit routing diagram and equipment layout.
32. Any cutting, patching, or finish repair work required for the electrical installation is the responsibility of the contractor.
33. Where mounting heights are not detailed or dimensioned, install electrical services and overhead equipment to provide maximum headroom possible. Connect equipment for ease of disconnecting with minimum interference with other installations.
34. Provide temporary power and lighting as required during the entire duration of demolition and construction utilizing the existing electrical system as a source. The Contractor shall remove all temporary power and lighting upon the completion of the project.
35. Unless otherwise noted, refer to architectural drawings for elevations and relative positions of equipment, wall, ceiling and floor information and minor architectural differences in each room.
36. Where conflicts exist, provide in the bid proposal the more costly alternative.

Work/Trade Coordination

37. Coordinate work with other trades to avoid conflict and to provide correct rough in and connection for equipment furnished under trades that require electrical connections. Inform Contractors of other trades of the required access to and clearances around electrical equipment to maintain serviceability and code compliance.
38. The contractor shall verify the ampacity, voltage, and kaic rating of all approved mechanical equipment prior to the installation of overcurrent protection devices and feeder and branch circuit conductors.
39. HVAC Equipment Nameplate Rating: Short circuit and ground fault protection device ratings shall not exceed the manufacturer's values marked on the equipment.
40. Sequence, coordinate and integrate installations of electrical materials and equipment for efficient flow of work. Give particular attention to large equipment which requires positioning prior to closing in the building and/or rooms. Coordinate the cutting and patching of building components to accommodate the installation of the electrical equipment and materials.
41. Provide coordination drawings of all required access panel locations in gypsum ceilings to the architect/engineer for coordination.
42. The Contractor shall coordinate work with the other trades to ensure the minimum safe working clearances around electrical equipment and to ensure access to equipment requiring calibration or maintenance (including motors, controls, instruments, panels, lights, valves, filters, and VAV boxes). Working space and access shall be sufficient for an adult to perform maintenance safely without straddling or removing obstructions and shall conform to NEC requirements (i.e., 110.26 & 110.34). Work that encroaches on working space or that impedes maintenance shall be relocated at the Contractor's expense.

Installation:

43. Grounding shall be installed in accordance with the NEC as it applies to electrode, grounding and bonding requirements for service, equipment and enclosures. Install an insulated equipment ground conductor in each raceway or conduit. When not indicated on the drawing, size the equipment ground conductor in accordance with NEC Table 250.122. Bond raceways and the frames and enclosures of motors, breakers, switches, and other electrical equipment to the building grounding system. Precautions shall be taken to ensure adequate ground continuity along all conduits or raceways.
44. Provide a separate neutral conductor for each circuit. Install neutral conductors and ground conductors into all switch boxes. Multiple circuits shall not share a common neutral. The Neutral shall be sized to match the phase conductors. Neutral conductors shall not be reduced in size.
45. Within three phase panels, arrange connections for single phase circuits to achieve three phase load balance within 20% of the average phase load current. Ungrounded conductors using a common neutral must originate from different phases.
46. The contractor is responsible for maintaining proper phase rotation for both existing three (3) phase electric loads as well as new three (3) phase loads.
    a. Phase rotation check: on multi-phase equipment, perform a phase rotation check prior to energizing the equipment. Use a Knopp K-3 or equivalent device with red or "A" lead connected to phase A, white or "B" lead connected to phase B, and blue or "C" lead connected to phase C. Document the phase rotation and annotate test documentation with device used, manner connected, rotation observed, date of test, and name of craftsman. Submit with the close-out documents. Do not energize equipment unless the observed rotation matches the requirements of the equipment.
47. The Contractor shall supply all labor, cables, conduit boxes, fittings, wiring materials, hardware, supports, and miscellaneous items for a complete electrical installation and connection of the electrical work required, except for the provision of owner supplied equipment which shall only be completed to the point indicated on the drawings.
48. The Contractor shall use a calibrated torque tool to achieve the indicated torque value when the tightening torque numeric values identified on the electrical equipment or in the installation instructions. In the absence of connector or the equipment manufacturer's recommended torque values, the tables in Informative Annex I ("Recommended Tightening Torque Tables from UL Standard 486A-B.") may be used to correctly tighten screw-type connections for power and lighting circuits. Informative Annex I represents the "Recommended Tightening Torque Tables from UL Standard 486A-B."
49. All cables not installed within conduit (ex., MC cable, fire alarm cable, data cable), routed within the ceiling cavity must be secured using Bridle rings, J-hooks, or other approved means. The cable shall not lay on dropped ceiling panels, be fastened to existing electrical conduits, steam pipes, sprinkler pipes, insulated pipes, or be routed in such a fashion as to obstruct access hatches, doors, utility access panels, mechanical service work areas or fittings and shall not be routed through fire doors, ventilating shafts, or grates.
    a. Unless otherwise indicated, MC cables shall be secured at intervals not exceeding 6'. Cables containing four or fewer conductors sized no larger than 10 AWG shall be secured within 12" of every box, cabinet, fitting, or other cable termination.
    b. MC cable shall be permitted to be unsupported where the cable is: (1) fished between access points through concealed spaces in finished buildings or structures and supporting is impractical; or (2) not more than 6' in length from the last point of cable support to the point of connection to luminaires or other electrical equipment and the cable and point of connection are within an accessible ceiling. Type MC cable fittings shall be permitted as a means of cable support.
50. All cable trays and electrical conduits shall be supported and braced independently of the ceiling.
51. All new wiring shall be run concealed wherever possible. When not routed concealed in the ceiling or wall cavities, conductors shall be in a surface metal raceway. In public spaces, corridors, service areas, and other finished spaces, provide all code sized pull-boxes (not shown) and locate in runs as required. No exposed cable may be installed.
52. Surface mounted metallic raceway shall meet the following criteria and conform to NEC Article 386:
    a. Install in accordance with manufacturer's instructions for system components and shop drawings. Coordinate installation with adjacent work to ensure proper clearances and to prevent electrical hazards.
    b. Install in accordance with complete system instruction sheets.
    c. Install enclosures to be mechanically continuous and connected to all electrical outlets, boxes, device mounting brackets, and cabinets, in accordance with manufacturer's installation sheets.
    d. Install enclosures to be electrically continuous and bonded in accordance with the National Electric Code for proper grounding.
    e. Mechanical Security: Raceway systems shall be mechanically continuous and connected to all electrical outlets, boxes, device mounting brackets, and cabinets, in accordance with manufacturer's installation sheets.
    f. Electrical Security: Metal raceway shall be electrically continuous and bonded in accordance with the National Electric Code for proper grounding.
    g. Raceway Support: Raceway shall be supported by 2-hole straps at intervals not exceeding 5 feet or in accordance with manufacturer's installation sheets.
    h. Accessories: Provide accessories as required for a complete installation, including insulated bushings and inserts where required by manufacturer.
    i. Unused Openings: Close unused raceway openings using manufacturer's recommended accessories.
53. Where PVC raceway is indicated to be installed exposed in an external environment, expansion fittings shall be installed to meet the requirements of NEC 352.44. Expansion fittings shall be installed on all PVC runs greater than 6'-0".
54. All openings and penetrations shall be sealed upon completion of the electrical installation to prevent the spread of smoke and fire through openings. Seal around conduit and raceway penetrations through interior walls and floors separating areas to restore the original fire rating. Also use a UL classified fire sealant. Seal penetrations through roofs and exterior walls to make them waterproof. Request inspection of fire seals by the electrical inspector or from the authority having jurisdiction before and after placement of fire seal materials. All openings shall be coordinated with the other trades to limit interference and obstruction.
55. Limit the use of electrical metallic tubing (EMT) to where it will not be subject to physical damage or corrosion. Use intermediate metal conduit (IMC) or rigid galvanized steel conduit (RGS) where raceways are embedded in concrete or exposed to physical damage. Use minimum 3/4" conduit except as follows and is allowed by code: 1/2" conduit may be used for control circuits; 3/8" flexible metal conduit may be used to connect light fixtures in suspended ceilings. Use liquid tight flexible metal conduit for flexible connection to equipment in mechanical rooms or outdoors.
56. Where raceways contain insulated conductors 4 AWG and larger that enter an enclosure, the conductors must be protected from abrasion during and after installation by a fitting that provides a smooth, rounded insulating surface, such as an insulating bushing as per NEC 300.4(G).
57. All outdoor equipment shall be weatherproof (NEMA 3R).
58. Wherever the length of the secondary conductors of a transformer exceeds 10'-0", install the enclosed circuit breaker or fused disconnect within 10'-0" of the transformer secondary terminals in accordance with NEC Article 2401-2(C)(2). This overcurrent device shall have an ampacity rating equal to the ampacity of the panel being served. If this occurs where the panel is in the same room and indicated to contain a main circuit breaker, the panel being fed may be changed to main lug only.
59. All penetrations through exterior walls shall be sealed watertight. Furnish and install seals for conduit and raceways to seal the annular space between the raceway and the building penetration. Furnish and install conduit sealing bushings as manufactured by OZ/Gendy type CSMI or CSMC or approved equal. Furnish and install conduit sealing bushings as manufactured by OZ/Gendy type CSBG or approved equal to seal the conductors inside the raceway. Coordinate submittal with conductor size, quantity and insulation type.
60. Underground conduits shall be pitched to drain away from the building.
61. Where an exit enclosure is required to be separated from the building, only electrical wiring methods serving equipment permitted by the authority having jurisdiction in the exit enclosure shall be installed within the exit enclosure. No conduit, piping, raceway etc. serving other areas may pass through a stair enclosure, i.e., Conduit, piping, raceway etc. must terminate at the stair enclosure.

Wire Information:

62. All wiring shall be copper conductor, 600 volts in EMT raceway with approved fittings unless otherwise indicated. Feeder and branch circuit wiring shall be minimum #12 AWG unless otherwise indicated. Feeder and branch circuit wiring larger than #10 AWG shall be stranded conductor and #10 AWG and smaller, shall be solid conductor. Control wiring shall be, minimum, #18 AWG THWN. Type of insulation as follows unless noted otherwise:
    a. THHN/THWN insulation for #4 AWG and smaller
    b. THW or THHN/THWN insulation for #2 AWG and larger
    c. THW used for all panel feeder and service conductors
    d. XHHW-2 insulation type shall be used where conductors are installed in conduits which are exposed to the weather.
66. Use the following conductor color codes:

	208Y/120V	480Y/277V
Phase A	Black	Brown
Phase B	Red	Orange
Phase C	Blue	Yellow
Neutral	White	Gray
Equip. Ground	Green	Green

Circuit Breakers:

67. Unless otherwise indicated, Use molded case, thermal magnetic, 600 VAC circuit breakers in all switchboards, panelboards and motor control centers.
68. Provide circuit breakers with UL listed interrupting rating (RMS symmetrical amperes) greater than or equal to the available fault current shown on the electrical one-line diagram or panel schedule. "Series rated" equipment shall not be accepted.
69. For all new circuit breakers in existing panels, provide circuit breakers which are UL listed for use with the existing panel.
70. Install UL Listed circuit breaker padlocking devices on all over current protection devices at the main building panel (MDP or equivalent). The device must have provisions for placement of a lock to secure the device in the off position. The lock-out device must be an integral part of the disconnect assembly and must remain in place after the padlock is removed, whether it is a fused disconnect switch, a single circuit breaker, or a circuit breaker in a panelboard. A device that is attached to the circuit breaker handle by a set screw is not an acceptable means to serve as a safe method of locking the device in the off position.
71. Circuit breakers used as switches shall be UL listed for switching duty and marked "SWD" per NEC 240-83(D).
72. All 120V, 1φ, 15A and 20A branch circuits supplying outlets installed in dwelling units, (as defined by NEC Article 100), family rooms, dining rooms, living rooms, parlors, libraries, dens, bedrooms, sunrooms, recreation rooms, closets, hallways, or similar rooms or areas shall be protected by a listed arc-fault circuit interrupter (AFCI), combination type, installed to provide protection of the branch circuit.

Receptacles:

73. Receptacles and communications outlets shown on drawings shall be mounted 8" apart on center horizontally. The contractor shall coordinate exact location of all boxes in two hour or less rated assemblies such that area of box per wall area and outlets on opposite side wall horizontally spacing comply with the building code regarding fire resistant construction.
74. Receptacles installed in all areas specified by NEC 406.12, 125-volt, 15A and 20A shall be listed tamper-resistant.
75. Where receptacles are controlled as part of an energy management or building automation system to meet energy code requirements, they shall be permanently marked with the symbol indicated in NEC Figure 406.3(E) and the word "controlled".
76. All outdoor receptacles shall be mounted 42" above the finished grade, unless noted otherwise. The outdoor receptacles shall be GFCI type with a weatherproof enclosure. The weatherproof enclosure shall have a gasketed hinged outlet cover which is suitable for wet locations while in use and UL listed.

Labeling:

77. All switchboards, panelboards, industrial control panels and motor control centers that are in other than dwelling occupancies shall be field marked to warn qualified persons of potential electric arc flash hazards. The marking shall be located so as to be clearly visible to qualified persons before examination, adjustment, servicing or maintenance or the equipment. Marking shall be self-adhesive, commercial label conforming to NEC 110.16 and ANSI Z535.4.
78. Provide identification tags for all new wiring and install at each end and in all intermediate pull/junction boxes, cabinets, housings, etc. Legibly indicate on tags, minimum ½" high letters, the points of origin and termination of each conduit and conduit run. Label all receptacles and switch covers with their panelboard and circuit number. For interior equipment, use Brother P-touch 3 label maker with TC-10 label cartridge or equal. For exterior equipment, use aluminum dymo half-inch tape label with embossed lettering. Abbreviate lettering to provide necessary information with minimum label size (i.e., Panelboard PP1, Circuit 23 should read PP1-23). Refer to the drawings for additional labeling requirements.
79. Label all switchgear, panelboards, and separately mounted equipment with feeder source and circuit number. For interior equipment, provide white Micarta plate with quarter-inch block lettering. For exterior equipment, provide anodized aluminum plate with quarter-inch embossed block lettering. Attach to equipment using contact cement in a clear space on the upper portion of the equipment cover approximately 66" AFF. Abbreviate lettering or adjust letter size to provide necessary information with minimum label size, (i.e., 2271480V PANEL PP1 FROM MDP CKT 3 or P-1 20 HP PUMP FROM PP1 CKT 3). Refer to the drawings for additional labeling requirements.
80. All panels shall have typed, completed directories indicating the circuit's load (room number as per the final signage and equipment served), spare, or space. Identify the purpose of individual circuit breakers, safety switches and motor starters by means of nameplates as indicated. Update directories as panels are altered. Circuit changes shall be reflected on "as-built" drawings.
81. All circuits and circuit modifications must be legibly identified as to their clear, evident, and specific purpose. The identification must include sufficient detail to allow each circuit to be distinguished from all others, and the identification must be on a circuit directory located on the face or inside of the door of a panelboard. Circuit directories containing multiple entries with only ``lights" or ``outlets" do not provide the sufficient detail required by the NEC.

Lighting:

82. Support for light fixtures in or on grid-type suspended ceilings: A Seismic Fixture Clamp (SFC) shall be installed as a metal clip to attach recessed light fixtures (luminaires) to framing members of metal suspension systems for acoustical and lay-in panel ceilings. One clamp is required at each of the four corners.
83. In mechanical areas, the contractor shall verify installation locations and adjust as required to clear obstructions and to suit field conditions.
84. "Wiring" to battery operated exit or emergency luminaries shall be as per the Manufacturer's instructions and in conformance with the UL Listing of the equipment. As per the NEC, connect the emergency battery to the line side of the switch or power pack, ahead of the area lighting, and clearly identify the circuit feeding the unit at the distribution panel.
85. Provide a neutral for all lighting circuits.
86. Gang switches together under one faceplate.
87. For installation of light fixtures in areas without a ceiling, the contractor shall determine method of support using hanger fittings, threaded rod, and "Unistrut" as applicable. These costs shall be included with the base bid.
88. Lighting controls factory startup:
    a. The contractor, with the assistance of the lighting designer and either the lighting control system manufacturer or representative shall program and verify the system performs per the manufacturer's instructions and the lighting designer's intent, sequences of operations, plans, and specifications. This includes properly locating the daylight sensor in the room(s), setting the dimming curves, setting occupancy sensor shut-off delays, setting dimming levels, and addressing all of the components in the lighting control system.
    b. Default factory lighting controls settings **will not** be accepted on this project unless a letter is submitted stating the default controls meet the sequence of operations on the drawings.
89. As part of the base bid, the contractor shall hire a 3rd party testing company responsible for the functional testing of the lighting control devices and control systems as per ASHRAE 90.1-9.4.4.
90. As part of the close out documents, the contractor shall provide lighting equipment manuals that contain the following:
    a. Submittal data indicating all selected options for each piece of lighting equipment and lighting controls.
    b. Operation and maintenance manuals for each piece of lighting equipment and lighting controls with routine maintenance clearly identified including, as a minimum, a schedule for inspecting and recalibrating all lighting controls.
    c. A complete narrative of how each lighting control system is intended to operate including recommended settings.

Inspections/Warranty:

91. At the end of the project, the contractor shall make an inspection of all electrical equipment to ensure that there are no loose electrical connections or electrical circuits subject to electrical breakdown due to the presence of foreign material. This shall include inspection of all connections made under this contract.
92. The contractor shall deliver certificates of electrical and other inspections, or copies thereof, to the client as part of the close out documents, with copies to the Engineer/architect.
93. No work shall be concealed until after inspection and approval by proper authorities. If work is concealed without inspection and approval, the Contractor shall be responsible for all work required to both open and restore the concealed areas in addition to any required modifications.
94. The contractor shall guarantee all work in writing to the client against any and all defects in material and workmanship for a period of one year, or a time period as indicated in the specifications, from the date of substantial completion, and perform all corrective work at no cost to the client.

Electrical General Demolition Notes

General Project Info:

1. Unless specifically noted otherwise, it shall be understood that when the words "Owner" or "Client" are used in these drawings they are interchangeable and all refer to Gloucester County Board of Education.
2. Unless specifically noted otherwise, it shall be understood that when the words "Architect", "Engineer", or "A/E" are used in these drawings they are interchangeable an all refer to LAN Associates, Engineering, Planning, Architecture Surveying ("LAN").
3. Unless specifically noted otherwise, it shall be understood that when the word "Contractor" is used in the Electrical (E#.##) drawings and/or Electrical Specification sections it refers to the Electrical Contractor.
4. Where any device or part of equipment is referred to in these drawings in the singular number (e.g., "the switch", "the receptacle"), this reference shall be deemed to apply to as many such devices as are required to complete the demolition as shown on the drawings.
5. Health, safety, and critical operating equipment shall not be compromised without owner's authorization. Schedule shutdown during off hours and implement and maintain a temporary operational plan.
6. The demolition drawings are diagrammatic and indicate the general intent and scope. Plans do not attempt to show all electrical demolition items. Unless otherwise noted, the devices shown are for information purposes. The Contractor, prior to submitting a bid, shall field verify all demolition items and the extent of demolition work, conditions under which demolition is to be accomplished, along with the kind and amount of materials being removed and provide for the removal of all devices accordingly.
7. The Contractor shall, in their base bid, include all labor and materials including all temporary connections, conduit, and wire to accommodate construction and provide continuous service to devices. Systems that are to remain temporary or permanent and require the shutdown of the building power shall be performed during overtime and shall be included in the base bid.
8. The Contractor is responsible for the sequence of all work and shall include in the base bid all labor and materials required for the extension, re-routing and relocation of existing system components, equipment, wiring, conduits, and cabling to maintain the operation of all systems throughout the building during demolition and construction phases.
9. The Contractor shall report to the client any and/or all conditions that may interfere with or otherwise affect or prevent the proper execution and completion of the work of this contract.
10. The Contractor shall execute all work within the regulations of the building for demolition and removal of debris. Overtime work required will be at no extra cost to the client.
11. All equipment shall be disconnected ("D") and removed back to its power source of origination unless otherwise noted ("U.O.N.") by Existing to Remain ("E"). All disconnected and removed items that are not being reused shall be returned to the Owner or disposed off site in an approved method.
12. The Contractor shall always protect the property of the client and the building owner.
13. Unless noted otherwise, all the existing electrical equipment currently located in the areas of complete demolition, whether specifically indicated on this drawing or not, shall be disconnected and removed from service. The Owner has the first right of refusal on all removed items. All items not wanted by the Owner shall be properly disposed of offsite by the Contractor in accordance with the law. Care shall be taken to maintain circuit continuity to all existing electrical devices to remain that are inside and outside of the demolition area. Refer to architectural drawings for exact areas of demolition.
14. Relocate or remove all electrical devices in accordance with the applicable codes.
15. Do not disable or disrupt building fire or life safety systems without written permission from the Owner. In all cases, permission shall have been granted not less than ten (10) working days prior to the intended interruption.
16. Before starting work, the Contractor shall check all existing devices, light fixtures, receptacles, equipment, etc. that are noted or required to be reused to satisfy himself that they are operating properly. Should any of the items not be operating properly, the Contractor shall report same to the engineer and await his directions. Contractors that do not comply with the above will be responsible for providing operational items at their expense.
17. The Contractor shall field investigate the existing electrical & low voltage systems installations. All existing installations in the renovation areas that are to remain but are not currently in compliance with current codes shall be brought to the attention of the engineer, including but not limited to the following: Un-supported wire, conduit and junction boxes laying on top of ceiling tiles, wire, conduit and/or junction boxes supported only by tie-wire. As directed, raise and support conduit with strap per specs. Raise and support wire with bridle rings, J-hooks, or other appropriate means. Provide new conduit/wire as required. Fixtures improperly supported or inadequately supported by device boxes - provide proper support per N.E.C.

Work/Trade Coordination:

18. The Electrical Contractor shall coordinate the mechanical equipment demolition with the Mechanical Contractor and mechanical demolition plans and general construction demolition with the General Contractor and architectural demolition plans for all equipment to be demolished and schedule time for electrical demolition.
19. The Contractor shall remove all electrical equipment left after wall demolition, including conduit, switch boxes, plates, bridges, or any other low voltage or electric wiring and equipment. Disconnect all wiring at panels and remove old wiring from the plenum.
20. Temporarily relocate electrical equipment as required to accommodate the construction schedule. All areas not under construction must be kept operational during construction. To accomplish this, provide all necessary temporary electrical services. Remove temporary devices upon completion of the project.
21. As part of the base bid, the Contractor shall provide temporary electric power and temporary lighting with local switching for general and task illumination required for construction activities by all prime and subcontractors. Lighting levels provided are to be in compliance with applicable workplace standards. All temporary branch circuits shall be supplied by circuits protected by ground fault circuit breakers. All temporary branch circuits shall be in accordance with NEC Article 590.
    a. The engineer will review complaints concerning power distribution, devices or lighting available in a specific area or areas of the project. If directed by the engineer, the Contractor shall provide additional power distribution, connection devices or luminaires required under this section at no additional cost.
22. At the conclusion of the construction activities remove all wiring, both exposed and concealed, used for temporary lighting and power distribution.

Demolition Requirements:

23. Raceways associated with electrical being demolished, which are concealed in existing remaining walls may be abandoned in place. Remove wiring from the conduit.
24. Raceways associated with electrical being demolished which are exposed shall be removed.
25. Where removal of equipment or wiring is indicated, it shall include all associated wiring back to the last active remaining outlet, device, fixture, or panel.
26. No removed equipment or material shall be reused as part of new work, U.O.N.
27. Existing remaining concealed raceways may be reused for new work provided they meet all requirements of the specification for new work.
28. Coordinate with the Owner, prior to the start of demolition, to minimize power interruptions. Work may have to occur during non-regular business hours. Coordinate in writing with the Owner one week before the planned power interruption
29. The Contractor shall ensure that all remaining active circuits, devices, outlets, light fixtures, etc. have not been disconnected or made inoperative during demolition. The Contractor shall restore all interrupted or disconnected circuits to operation.
30. Remove abandoned electrical equipment, devices and wiring (i.e., distribution equipment, receptacles, data ports, raceway systems) back to their source panelboard, switchboard, switchgear, communications closet, or cabinet. Abandoned wiring and raceways can result from actions that include the following:
    a. Equipment is removed or relocated.
    b. Fixtures are removed or relocated.
    c. System is no longer used.
    d. There is no demonstrable near term future use for the existing circuit or raceway system.
31. Unused electrical equipment and material shall only be left in place if one or more of the following conditions exist:
    a. The removal requires the demolition of other structures or equipment that is still in use. An example is conduit embedded in walls or ductbanks.
    b. The cost of removal is excessive due to hazards, construction methods, or restricted access. The engineer shall make a final determination for this condition.
    c. If either of the above two cases exist, remove the conduits, including those above accessible ceilings, to the point that building construction, earth, or paving covers them. Cut conduit beneath or flush with building construction or paving. Plug, cap, or seal the remaining unused conduits. Install blank covers for abandoned boxes and enclosures not removed.
32. Inventory each panelboard where circuits are indicated to be reused or have been removed. Sequentially consolidate existing circuits within each panelboard with regard to area served. Maximize capacity for service to the project area by including existing spaces with the group of circuits breakers to be disconnected as a result of this selective demolition. Prepare a current directory, post demolition, for each panelboard as the base upon which the final directories will be compiled.

Extension/Continuity:

33. Removal shall include wiring, raceway, boxes, switches, light fixtures, etc. as indicated on the plans and as required by these demolition notes.
34. All equipment to be relocated should remain connected until such time that they are relocated. If they are in a wall to be removed, leave them connected and either tuck them into the ceiling or attach them to the adjacent structure.
35. Extend existing equipment connections using materials and methods compatible with the existing electrical installation and identified in the Electrical Specifications.
36. When relocation or removal of an electrical device interrupts the continuity of a downstream circuit or device to remain, reroute/modify the circuit as required to maintain circuit continuity. Provide new junction boxes, pullboxes, raceways, wiring, etc., as required.
37. When circuits are interrupted by the removal of a panelboard, the Contractor shall rewire devices to the nearest panelboard of same voltage requirements with available space. Furnish and install new circuit breakers or utilize spare circuit breakers as required.
38. Where an existing device is removed but the raceway and box remains for circuit Continuity, provide an appropriate blank cover plate of material and finish to match the cover plates of the devices in that room.
39. If the continuity of the neutral conductor of a multiwire circuit is interrupted (open), the resultant over or under voltage can cause a fire and/or destruction of electrical equipment. Contractor shall take necessary precautions to preclude the interruption of neutral conductor on a multiwire circuit.
40. Non-demolition areas: Demolition work shall not affect areas not included in demolition activities. The Contractor shall be responsible for the continuity of all services in non-demolition areas. All services shall be maintained at all times. Maintain service by extending, re-routing and/or reconnecting any circuits affected by demolition. Provide additional conduit/wire as required to maintain service. Circuits in non-demolition areas that are connected to demolished panels and/or circuits shall be re-circuited to the existing panels. Provide temporary power as required during change-over to maintain continuous service.
41. Provide temporary power for all relocated circuits as required to maintain continuous service.
    a. Where existing receptacles are shown to remain, perform the following:
    b. Provide new wiring device and faceplate
    c. When a new circuit is indicated, remove existing circuitry. Provide additional conduit, wiring, etc., necessary to maintain circuit continuity to existing devices on the same circuit that are not to be recircuited and recircuit device as indicated.

Patching/Repairing:

42. Restore the original fire rating of all floors, walls, and ceilings after electrical demolition using a UL classified fire sealant.
43. Except for areas where partitions or ceilings are to be demolished or where new air conditioning or electric is to be installed, Contractor shall replace to the existing condition in area of disturbed ceiling. Any damaged or broken ceiling tiles as the result of Contractor's demolition shall be replaced.
44. Upon completion of the demolition work, the Contractor shall provide that all areas be left broom clean.
45. Furnish and install knockout plugs on all existing panels, equipment, and outlet box openings created by the removal or relocation of existing raceways.
46. Where an existing electrical device, equipment, etc., is being removed from an existing wall and that wall is to remain Contractor shall patch existing wall to architects satisfaction.

Hazardous Material Disposal:

47. Disconnect and remove all ballasts from fluorescent light fixtures that do not have a labels stating "BALLAST DOES NOT CONTAIN PCBs" or similar label (BALLAST MAY CONTAIN PCBs). Place PCB ballasts in D.O.T. approved containers. Properly dispose of containers with a federally approved disposal contractor. Disposal shall involve segregation of components for recycling and incineration of PCB contents. All disposal documentation shall be provided to the Owner upon completion of the project. Contractor shall maintain an owner approved log sheet for each run.
48. Remove all mercury-containing lamps and do not break or crush. Retain the services of a state approved lamp recycling facility able to accept EPA hazardous waste code D009. Obtain packaging required and package, secure, and deliver lamps as required to the selected recycling facility, insuring minimum lamp breakage. A Minimum of 95% of lamp material must be shipped intact. The Contractor must comply with all reporting and paperwork requirements of state laws regarding the handling, transportation, and disposal of hazardous waste including but not limited to filing the required paperwork and manifest with the state and owners as required by law. All disposal documentation shall be provided to the Owner upon completion of the project.
49. Remove all sealed lead-acid batteries from the site. Return to the battery manufacturer or to a similarly qualified battery processing facility for proper disposal. Obtain a receipt for submission with the close out documents.
50. Tritium exit signs may not be put into ordinary trash; they require special disposal. Tritium exit signs that are illegally put in ordinary landfills can break and contaminate the site. Where Tritium Exit Signs are indicated for demolition, the Contractor shall use the following procedures:
    a. Take care to not drop or damage the exi signs in any way.
    b. Document location sign was removed from, serial number, manufacturer, model #, condition, and removal date.
    c. Store the sign in a central location until demolition completion.
    d. At the completion of the demolition, turn all removed signs over, in their entirety, to the Owner with a list and inventory of all of the signs boxed up in the left over packing material from new signs.

State Project#: 07-1770-050-XX-XXXX

NJ Certificate of Authorization

Engr. Nos.	24GA27937500
Arch. Nos.	21AC00012400
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MICHAEL G. MIERKOWSKI, P.E.
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License No.: 24GE05063600

LAN ASSOCIATES
Engineering, Planning, Architecture, Surveying Inc.
1018 Laurel Oak Road, Suite 11, Voorhees, NJ 08043 ▌ t. 856-375-2701

Revisions:

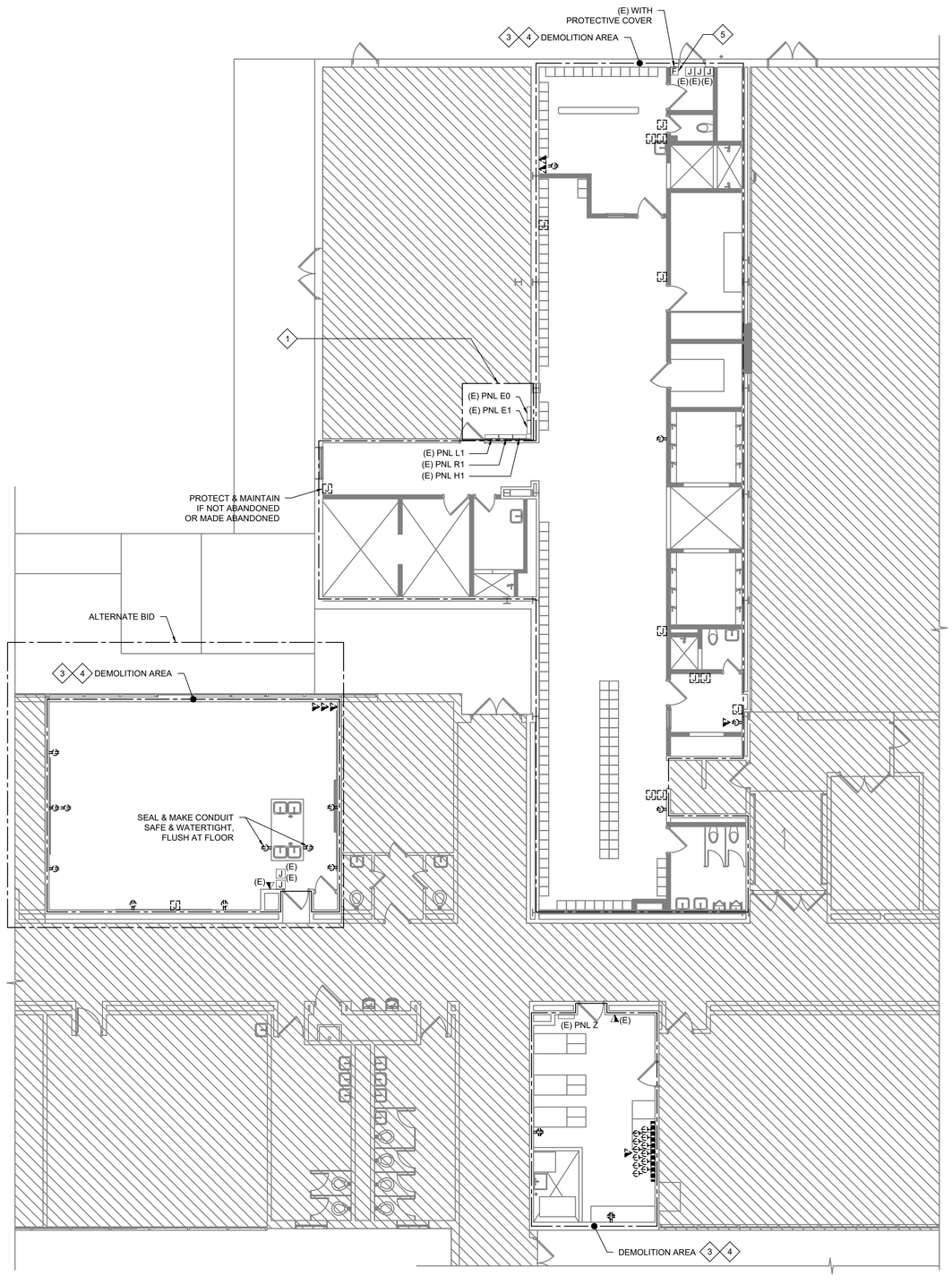
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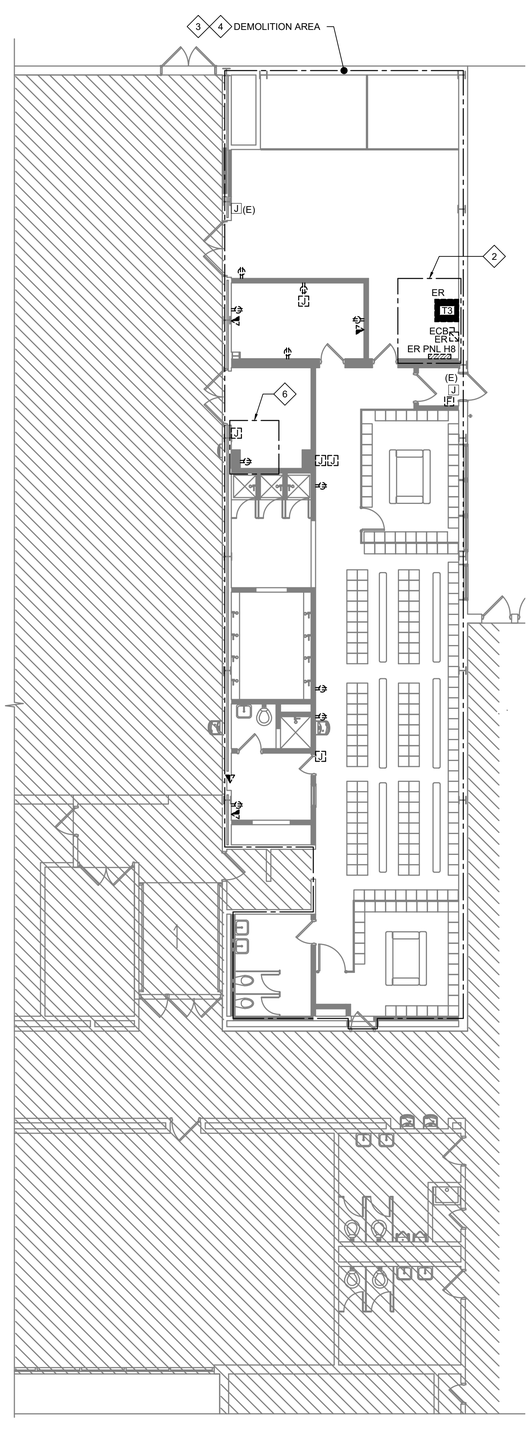
ELECTRICAL GENERAL NOTES

HIGH SCHOOL LOCKER ROOM INTERIOR ALTERATIONS
GLOUCESTER CITY BOE
1300 MARKET STREET, GLOUCESTER CITY NJ, 08030

Job No. 2.20457.20
File No. 20457.20 E001

E0.02
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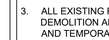




ELECTRICAL DEMOLITION PLAN NOTES

1. EXISTING TO REMAIN DEVICES ARE TAGGED "(E)" FOR CLARITY. REFER TO PROPOSED PLANS (SHEETS E2.01, E4.01, & E5.01) FOR MORE INFORMATION.
2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO THOROUGHLY INSPECT THE AREA OF WORK IN ORDER TO VERIFY ACTUAL CONDITIONS AND FULL SCOPE OF DEMOLITION AND REMOVAL WORK REQUIRED. ALL DEMOLITION WORK IS REQUIRED TO BE PERFORMED IN A SEQUENCE SO AS NOT TO DELAY THE WORK OF ANY OTHER TRADE
3. THE CONTRACTOR IS TO MAINTAIN FIRE RATINGS OF EXISTING RATED FLOOR/CEILING AND WALL ASSEMBLIES AS REQUIRED BY CODE. PATCH AND REPAIR OPENINGS IN AND/OR PENETRATIONS THROUGH EXISTING FIRE RATED ASSEMBLIES.
4. UNLESS OTHERWISE NOTED, ALL FIRE ALARM DEVICES NOT SHOWN ON PLAN SHALL REMAIN; PROTECT DEVICES DURING DEMOLITION. PROVIDE FIRE WATCH FOR ANY TIME THE FIRE ALARM CONTROL PANEL IS NOT OPERATIONAL.
5. FOR ALL ITEMS DESIGNATED TO BE REMOVED. REMOVE THE BRANCH CIRCUIT, ASSOCIATED OBSOLETE WIRING, ANY SUPPORTS, CONTROLS, ETC FOR OBSOLETE ITEMS, UNLESS NOTED OTHERWISE.
6. NOT ALL EXISTING ELECTRICAL EQUIPMENT, CONDUIT, JUNCTION BOXES, ETC. ARE SHOWN ON DRAWINGS. CONTRACTOR WILL NEED TO VERIFY IN FIELD.
7. REMOVE ALL SWITCHES, RECEPTACLES, DATA JACKS AND COVER PLATES, THAT ARE SHOWN AND ARE NOT DESIGNATED AS EXISTING TO REMAIN / BE RELOCATED.
8. REMOVE ALL BLANK PLATES AND JUNCTION BOXES CONTAINING DEAD CIRCUITS AND/OR ABANDONED WIRING THAT DOES NOT AFFECT EXISTING TO REMAIN CIRCUITS.
9. PATCH EXISTING GENERAL CONSTRUCTION TO REMAIN TO MATCH THE EXISTING ADJACENT CONSTRUCTION FOR ALL ITEMS DESIGNATED TO BE REMOVED.
10. REMOVE ALL ITEMS FROM PREMISES DAILY AND KEEP CONSTRUCTION SITE BROOM SWEPT.
11. UTILIZE EXISTING ELECTRICAL POWER FOR CONSTRUCTION POWER. COORDINATE DEMOLITION TO PROVIDE GFCI RECEPTACLE EVERY 400 SQUARE FEET DURING CONSTRUCTION. IF CONSTRUCTION POWER CAN NOT BE COORDINATED WITH DEMOLITION, PROVIDE TEMPORARY POWER FOR CONSTRUCTION ACTIVITIES.
12. PROVIDE TEMPORARY LIGHTING THROUGHOUT DEMOLITION & CONSTRUCTION. DISCONNECT & REMOVE ALL TEMPORARY LIGHTING, INCLUDING ALL ASSOCIATED WIRING & CONDUIT BACK TO SOURCE OR TO LAST ACTIVE DEVICES, AFTER COMPLETION OF CONSTRUCTION ACTIVITIES, PRIOR TO PROJECT CLOSE OUT.
13. ENSURE DEMOLITION DOES NOT AFFECT ADJACENT SPACES. THE ADJACENT SPACES WILL REMAIN OCCUPIED THROUGHOUT CONSTRUCTION.
14. PRIOR TO COMMENCEMENT OF WORK, CONTRACTOR SHALL TRACE OUT & CONFIRM ALL EXISTING FEEDS, SOURCES, & BRANCH CIRCUITS, SERVING LOADS TO REMAIN & LOADS TO BE DEMOLISHED, CURRENTLY FED FROM EXISTING PANELS. VERIFY ALL EXISTING LOADS AFFECTED BY THE DEMOLITION WORK. TRACE OUT & VERIFY ALL AFFECTED CIRCUITS (INCLUDING SOURCE PANELS & BREAKERS), & SUBMIT AS-BUILT DRAWINGS & PANEL SCHEDULES TO ENGINEER FOR REVIEW, PRIOR TO PROCEEDING WITH DEMOLITION WORK.
15. CONTRACTOR SHALL COORDINATE WITH FIELD CONDITIONS TO: DISCONNECT & REMOVE ALL WIRING & CONDUIT ASSOCIATED WITH ALL CIRCUITS SERVING EQUIPMENT & DEVICES MADE ABANDONED; AND MODIFY & EXTEND ALL WIRING & CONDUIT AS NECESSARY TO MAINTAIN CIRCUIT CONTINUITY FOR ALL CIRCUITS SERVING EQUIPMENT & DEVICES TO REMAIN OR BE RELOCATED.
16. UNLESS OTHERWISE NOTED AS EXISTING TO REMAIN: ALL EXISTING POWER/TEL/DATA RECEPTACLES, IN-FEEDS, SWITCHES, FACE-PLATES, & BACKBOXES WITHIN DEMOLITION AREA (INCLUDING THOSE ON CORE WALLS, PERIMETER WALLS, & COLUMNS) SHALL BE DISCONNECTED & REMOVED; ALL ASSOCIATED BRANCH CIRCUIT & TEL/DATA WIRING, INCLUDING CONDUIT, SHALL BE DISCONNECTED & REMOVED BACK TO SOURCE OR TO LAST ACTIVE DEVICE.
17. CONTRACTOR SHALL DISCONNECT & REMOVE ALL EXISTING ELECTRICAL EQUIPMENT / DEVICES, AND BRANCH CIRCUIT & CONTROLS / SIGNAL WIRING & CONDUIT (BACK TO SOURCE OR TO LAST ACTIVE DEVICE), ASSOCIATED WITH MECHANICAL & PLUMBING UNITS & EQUIPMENT THAT ARE DESIGNATED FOR REMOVAL WITHIN INDICATED AREA. REFER TO MECHANICAL & PLUMBING DRAWINGS FOR EXACT UNITS & EQUIPMENT TO BE DEMOLISHED & ASSOCIATED LOCATIONS.
18. CONTRACTOR SHALL REFER TO MECHANICAL & PLUMBING DRAWINGS FOR EXACT UNITS & EQUIPMENT DESIGNATED TO REMAIN & ASSOCIATED LOCATIONS. ALL UNITS & EQUIPMENT DESIGNATED TO REMAIN & ALL ASSOCIATED ELECTRICAL EQUIPMENT / DEVICES, AND BRANCH CIRCUIT & CONTROLS / SIGNAL WIRING & CONDUIT, SHALL BE PROTECTED THROUGHOUT DEMOLITION PHASE. MODIFY & RECONFIGURE EXISTING CIRCUIT WIRING AS REQUIRED TO MAINTAIN CIRCUIT CONTINUITY FOR EXISTING UNITS & EQUIPMENT / DEVICES TO REMAIN.
19. COORDINATE WITH BUILDING MANAGEMENT TO SALVAGE ALL EXISTING WIRELESS ACCESS POINTS, CLOCKS, & PA/LOCKDOWN SPEAKERS INDICATED FOR DEMOLITION.

ELECTRICAL DEMOLITION KEY NOTES



1. INDICATED ELECTRICAL EQUIPMENT IS EXISTING TO REMAIN AND SHALL BE PROTECTED THROUGHOUT DEMOLITION PHASE. MODIFY & EXTEND EXISTING WIRING & CONDUIT AS REQUIRED TO MAINTAIN CIRCUIT CONTINUITY FOR EXISTING LOADS & DEVICES TO REMAIN, & LABEL "SPARE" ALL CIRCUITS MADE SPARE AS A RESULT OF DEMOLITION WORK.

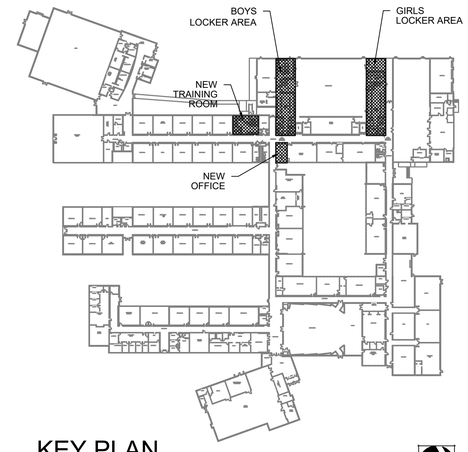
2. INDICATED ELECTRICAL EQUIPMENT IS TO BE RELOCATED. REFER TO ELECTRICAL PARTIAL POWER PLAN (SHEET E2.01) FOR NEW PROPOSED LOCATIONS & ELECTRICAL PARTIAL ONE-LINE DIAGRAM (SHEET E6.01) FOR FURTHER INFORMATION & REQUIREMENTS.

3. ALL EXISTING FIRE ALARM NOTIFICATION APPLIANCES (STROBES, HORN-OR-SPEAKER/STROBES, ETC.) WITHIN DEMOLITION AREA (INCLUDING THOSE NOT SHOWN ON PLAN) SHALL BE REMOVED FROM WALLS & CEILINGS, COILED UP, AND TEMPORARILY SUPPORTED IN PLACE; REMAINING ACTIVE THROUGHOUT DEMOLITION UNTIL THEY ARE REPLACED AS PART OF THE NEW CONSTRUCTION INSTALLATION. MODIFY & RECONFIGURE EXISTING FIRE ALARM CIRCUIT WIRING AS REQUIRED TO MAINTAIN CIRCUIT CONTINUITY.

4. ALL EXISTING FIRE ALARM AUTOMATIC AREA INITIATING DEVICES (SMOKE DETECTORS, HEAT DETECTORS, ETC.) WITHIN DEMOLITION AREA (INCLUDING THOSE NOT SHOWN ON PLAN) SHALL BE REMOVED FROM CEILINGS, COILED UP, AND TEMPORARILY SUPPORTED IN PLACE; REMAINING ACTIVE THROUGHOUT DEMOLITION UNTIL THEY ARE REPLACED AS PART OF THE NEW CONSTRUCTION INSTALLATION. MODIFY & RECONFIGURE EXISTING FIRE ALARM CIRCUIT WIRING AS REQUIRED TO MAINTAIN CIRCUIT CONTINUITY.

5. PULL STATION SHALL BE REMOVED FROM WALL, COILED UP, AND TEMPORARILY SUPPORTED IN PLACE; REMAINING ACTIVE THROUGHOUT DEMOLITION UNTIL RE-INSTALLED AS PART OF THE NEW CONSTRUCTION INSTALLATION. MODIFY & RECONFIGURE EXISTING FIRE ALARM CIRCUIT WIRING AS REQUIRED TO MAINTAIN CIRCUIT CONTINUITY.

6. CONTRACTOR SHALL DISCONNECT & REMOVE EXISTING COMMUNICATION SYSTEM EQUIPMENT & PATCH PANEL AT INDICATED LOCATION AS DIRECTED BY BUILDING MANAGEMENT. PRIOR TO COMMENCEMENT OF WORK:
   - 6.1. TRACE OUT & CONFIRM ALL ASSOCIATED POWER & COMMUNICATIONS, WIRING, CABLING, & CONDUIT, INCLUDING ALL EXISTING CONNECTIONS & ASSOCIATED SYSTEM PARTS.
   - 6.2. COORDINATE EXACT REQUIREMENTS WITH FIELD CONDITIONS & BUILDING MANAGEMENT, INCLUDING WHAT EQUIPMENT IS TO BE REMOVED & WHETHER ANY EQUIPMENT IS DESIRED TO BE SALVAGED.



KEY PLAN
N.T.S.

1 E1.01 ELECTRICAL 1ST FL PARTIAL DEMOLITION FLOOR PLAN
1/8" = 1'-0"

State Project#: 07-1770-050-XX-XXXX

NJ Certificate of Authorization	
Engr. Nos.	24GA27937500
Arch. Nos.	21AC00012400
Date	11/3/26
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Drawn	AB

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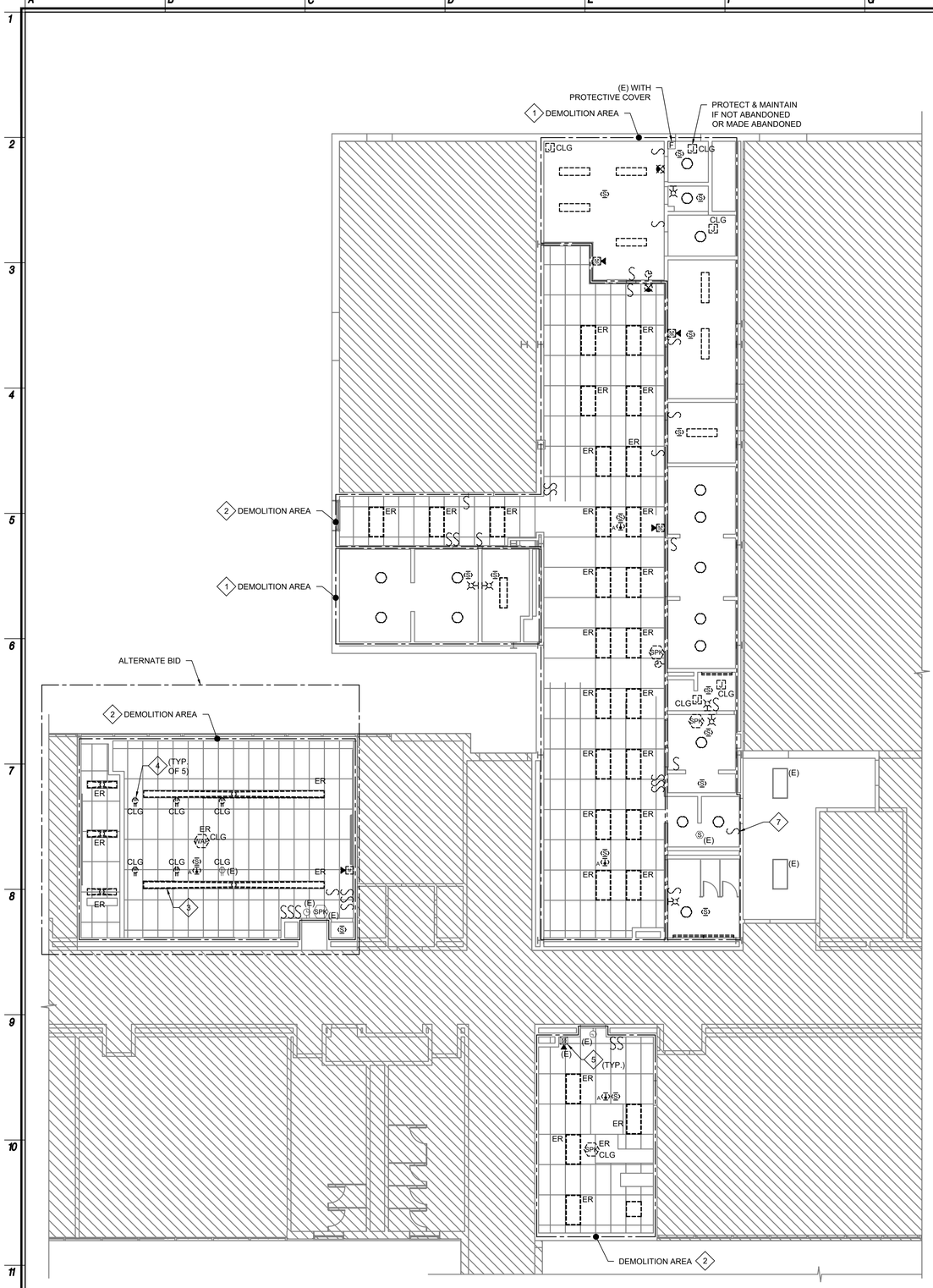
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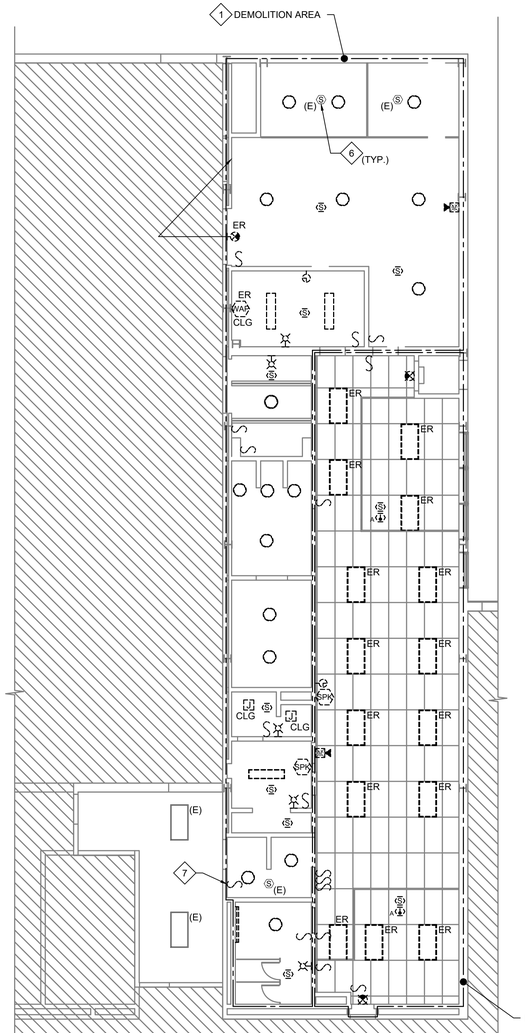
LAN ASSOCIATES
Engineering, Planning, Architecture, Surveying Inc.
1018 Laurel Oak Road, Suite 11, Voorhees, NJ 08043 | t. 856-375-2701

ELECTRICAL PARTIAL DEMOLITION FLOOR PLAN
HIGH SCHOOL LOCKER ROOM INTERIOR ALTERATIONS
GLOUCESTER CITY BOE
1300 MARKET STREET, GLOUCESTER CITY NJ, 08030

Job No. 2.20457.20
File No. 20457.20 E101

E1.01





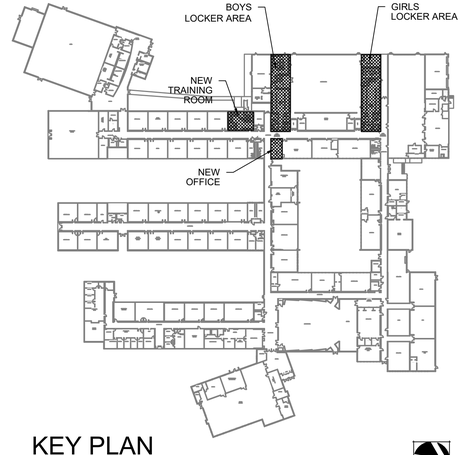
ELECTRICAL DEMOLITION PLAN NOTES

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3. THE CONTRACTOR IS TO MAINTAIN FIRE RATINGS OF EXISTING RATED FLOOR/CEILING AND WALL ASSEMBLIES AS REQUIRED BY CODE. PATCH AND REPAIR OPENINGS IN AND/OR PENETRATIONS THROUGH EXISTING FIRE RATED ASSEMBLIES.
4. UNLESS OTHERWISE NOTED, ALL FIRE ALARM DEVICES NOT SHOWN ON PLAN SHALL REMAIN; PROTECT DEVICES DURING DEMOLITION. PROVIDE FIRE WATCH FOR ANY TIME THE FIRE ALARM CONTROL PANEL IS NOT OPERATIONAL.
5. FOR ALL ITEMS DESIGNATED TO BE REMOVED. REMOVE THE BRANCH CIRCUIT, ASSOCIATED OBSOLETE WIRING, ANY SUPPORTS, CONTROLS, ETC FOR OBSOLETE ITEMS, UNLESS NOTED OTHERWISE.
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10. REMOVE ALL ITEMS FROM PREMISES DAILY AND KEEP CONSTRUCTION SITE BROOM SWEPT.
11. UTILIZE EXISTING ELECTRICAL POWER FOR CONSTRUCTION POWER. COORDINATE DEMOLITION TO PROVIDE GFCI RECEPTACLE EVERY 400 SQUARE FEET DURING CONSTRUCTION. IF CONSTRUCTION POWER CAN NOT BE COORDINATED WITH DEMOLITION, PROVIDE TEMPORARY POWER FOR CONSTRUCTION ACTIVITIES.
12. PROVIDE TEMPORARY LIGHTING THROUGHOUT DEMOLITION & CONSTRUCTION. DISCONNECT & REMOVE ALL TEMPORARY LIGHTING, INCLUDING ALL ASSOCIATED WIRING & CONDUIT BACK TO SOURCE OR TO LAST ACTIVE DEVICES, AFTER COMPLETION OF CONSTRUCTION ACTIVITIES, PRIOR TO PROJECT CLOSE OUT.
13. ENSURE DEMOLITION DOES NOT AFFECT ADJACENT SPACES. THE ADJACENT SPACES WILL REMAIN OCCUPIED THROUGHOUT CONSTRUCTION.
14. PRIOR TO COMMENCEMENT OF WORK, CONTRACTOR SHALL TRACE OUT & CONFIRM ALL EXISTING FEEDS, SOURCES, & BRANCH CIRCUITS, SERVING LOADS TO REMAIN & LOADS TO BE DEMOLISHED, CURRENTLY FED FROM EXISTING PANELS. VERIFY ALL EXISTING LOADS AFFECTED BY THE DEMOLITION WORK. TRACE OUT & VERIFY ALL AFFECTED CIRCUITS (INCLUDING SOURCE PANELS & BREAKERS), & SUBMIT AS-BUILT DRAWINGS & PANEL SCHEDULES TO ENGINEER FOR REVIEW, PRIOR TO PROCEEDING WITH DEMOLITION WORK.
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17. CONTRACTOR SHALL DISCONNECT & REMOVE ALL EXISTING ELECTRICAL EQUIPMENT / DEVICES, AND BRANCH CIRCUIT & CONTROLS / SIGNAL WIRING & CONDUIT (BACK TO SOURCE OR TO LAST ACTIVE DEVICE), ASSOCIATED WITH MECHANICAL & PLUMBING UNITS & EQUIPMENT THAT ARE DESIGNATED FOR REMOVAL WITHIN INDICATED AREA. REFER TO MECHANICAL & PLUMBING DRAWINGS FOR EXACT UNITS & EQUIPMENT TO BE DEMOLISHED & ASSOCIATED LOCATIONS.
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19. COORDINATE WITH BUILDING MANAGEMENT TO SALVAGE ALL EXISTING WIRELESS ACCESS POINTS, CLOCKS, & PA/LOCKDOWN SPEAKERS INDICATED FOR DEMOLITION.

ELECTRICAL DEMOLITION KEY NOTES

SYMBOL INDICATES DEMOLITION KEY NOTE

1. CONTRACTOR SHALL DISCONNECT & REMOVE ALL EXISTING LIGHTING FIXTURES & EXIT SIGNS (INCLUDING THOSE NOT SHOWN) & ASSOCIATED CONTROLS (WIRING & CONDUIT) BACK TO SOURCE OR TO LAST ACTIVE DEVICE. SAFE-OFF & MAINTAIN BRANCH CIRCUIT WIRING & CONDUIT UNTIL RE-CONNECTION TO NEW OR RELOCATED LIGHTING FIXTURES DURING CONSTRUCTION. CONFIRM WITH BUILDING MANAGEMENT IF ANY REMOVED LIGHTING FIXTURES / EXIT SIGNS ARE DESIRED FOR ATTIC STOCK PRIOR TO DISPOSAL.
2. CONTRACTOR SHALL DISCONNECT & RELOCATE ALL EXISTING LIGHTING FIXTURES & EXIT SIGNS (INCLUDING THOSE NOT SHOWN), & DISCONNECT & REMOVE ASSOCIATED CONTROLS (WIRING & CONDUIT) BACK TO SOURCE OR TO LAST ACTIVE DEVICE. SAFE-OFF & MAINTAIN BRANCH CIRCUIT WIRING & CONDUIT UNTIL RE-CONNECTION TO NEW OR RELOCATED LIGHTING FIXTURES DURING CONSTRUCTION. CONFIRM WITH BUILDING MANAGEMENT IF ANY SURPLUS LIGHTING FIXTURES / EXIT SIGNS ARE DESIRED FOR ATTIC STOCK PRIOR TO DISPOSAL.
3. CONTRACTOR SHALL MODIFY INDICATED LIGHTING FIXTURE AS NECESSARY TO ACCOMMODATE RELOCATION. COORDINATE EXACT REQUIREMENTS TO REMOVE SEGMENT OF LIGHTING FIXTURE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS & GUIDELINES.
4. CONTRACTOR SHALL SALVAGE EXISTING CORD REELS PLUGGED INTO TO CEILING-MTD OUTLETS & TURN OVER TO OWNER, TYPICAL OF (5).
5. ETR FIRE ALARM COMBINATION AUDIO/VISUAL NOTIFICATION APPLIANCE.
6. ETR FIRE ALARM INITIATION DEVICE.
7. CONTRACTOR SHALL RE-USE EXISTING LIGHTING CONTROL SWITCH BACKBOX & RACEWAY IF EXISTING BACKBOX & RACEWAY IS CAPABLE OF ACCOMODATING NEW LIGHTING CONTROL SWITCH & WIRING INSTALLATION. OTHERWISE, DISCONNECT & REMOVE BACK TO SOURCE OR TO LAST ACTIVE DEVICE.



KEY PLAN
N.T.S.

1 E1.02 ELECTRICAL 1ST FL PARTIAL DEMOLITION REFLECTED CEILING PLAN
1/8" = 1'-0"

State Project#: 07-1770-050-XX-XXXX

NJ Certificate of Authorization	
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Revisions:

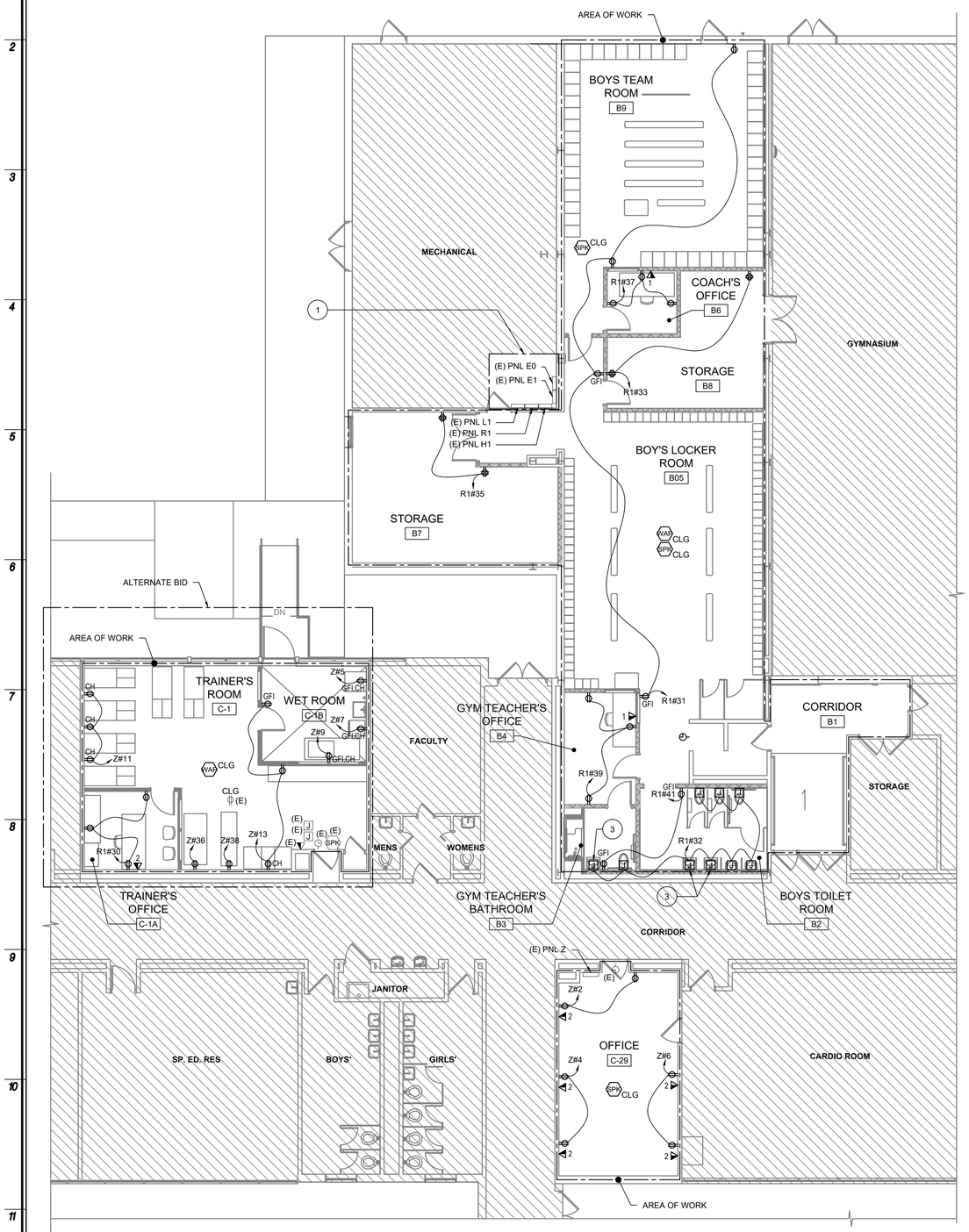
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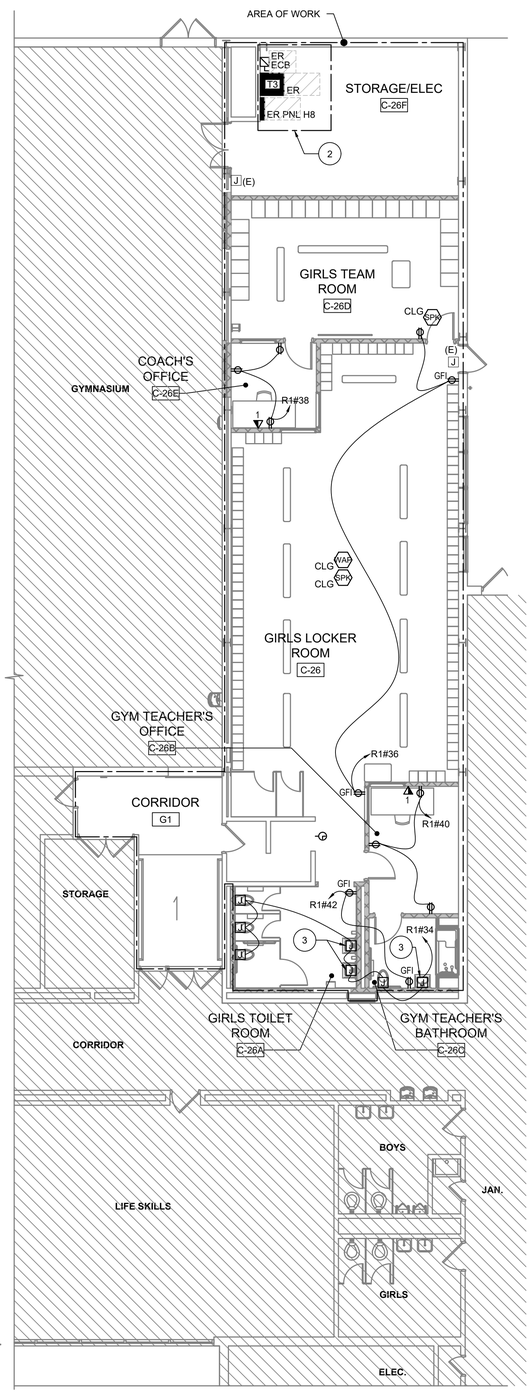
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ELECTRICAL PARTIAL DEMOLITION REFLECTED CEILING PLAN
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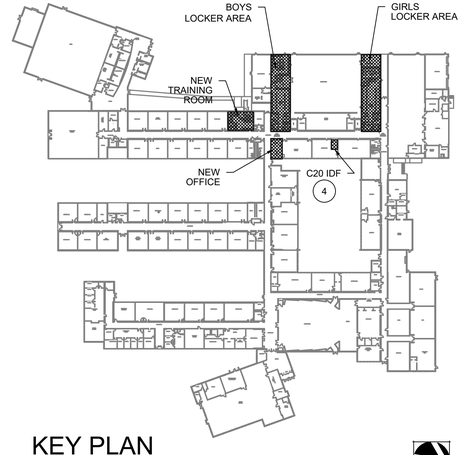
PROPOSED ELECTRICAL POWER PLAN NOTES

1. EXISTING TO REMAIN DEVICES ARE TAGGED "(E)" FOR CLARITY. REFER TO DEMOLITION PLANS (SHEETS E1.01 & E1.02) FOR MORE INFORMATION.
2. CONTRACTOR SHALL CONDUCT A THOROUGH EXAMINATION OF THE PREMISES PRIOR TO PREPARING A PROPOSAL. ANY CHANGES TO THE DESIGN MADE NECESSARY BY THE FIELD CONDITIONS SHALL BE CONVEYED TO THE ENGINEER PRIOR TO PREPARING A PROPOSAL. NO ADDITIONAL COST BEYOND THE PROPOSAL PRICE WILL BE ACCEPTED FOR FIELD CONDITIONS THAT COULD HAVE BEEN DETERMINED BY AN INSPECTION OF THE PREMISES.
3. COORDINATE FINAL COLOR OF ALL NEW RECEPTACLES AND COVER PLATES, WITH ARCHITECT PRIOR TO PURCHASE.
4. UNLESS OTHERWISE NOTED ON PLAN, RECEPTACLE MOUNTING HEIGHT SHALL BE 18" AFF (ABOVE FINISHED FLOOR).
5. ALL RECEPTACLES INSTALLED AS PART OF THIS PROJECT SHALL BE TAMPERPROOF. SEE NEC SECTION 406.12.
6. CONTRACTOR SHALL COORDINATE FINAL MOUNTING LOCATION OF ALL JUNCTION BOXES ASSOCIATED WITH: SECURITY, INTERCOM, TEL/DATA, & CLOCK SYSTEMS; WITH OWNER I.T. PERSONNEL. FOR DEVICES TO BE RELOCATED: PROVIDE DATA WIRING TO MATCH EXISTING. FOR DEVICES TO BE PROVIDED NEW: PROVIDE CAT6 DATA WIRING. CONFIRM FINAL DATA WIRING TYPE WITH CLIENT IT PERSONNEL, PRIOR TO PURCHASE.
7. UNLESS OTHERWISE NOTED: ALL NEW BACKBOXES, RACEWAYS, CONDUCTORS, & CABLES SHALL BE INSTALLED CONCEALED WITHIN NEW FINISHED WALLS & CEILINGS. SURFACE-MOUNTED RACEWAY, INCLUDING CONDUIT, SHALL BE PERMITTED TO RUN ON OPEN CEILINGS & EXISTING WALLS ONLY.
8. REFER TO ELECTRICAL DETAILS (SHEET E7.01) FOR FURTHER INFORMATION & REQUIREMENTS.
9. NEMA 5-20R OUTLETS DESIGNATED GFI SHALL BE PROVIDED WITH INTEGRAL GFI; PASS THROUGH GFI DEVICES SHALL NOT BE PERMITTED.

PROPOSED ELECTRICAL KEY NOTES

(#) SYMBOL INDICATES CONSTRUCTION KEY NOTE

1. INDICATED ELECTRICAL EQUIPMENT IS EXISTING TO REMAIN AND SHALL BE PROTECTED THROUGHOUT CONSTRUCTION PHASE; MODIFY AS REQUIRED.
2. CONTRACTOR SHALL RELOCATE EXISTING ELECTRICAL EQUIPMENT TO NEW PROPOSED LOCATION. ALL NEC CODE-REQUIRED DEDICATED EQUIPMENT & WORKING SPACE CLEARANCES SHALL BE MAINTAINED. PROVIDE MOUNTING SUPPORTS AS NECESSARY. REFER TO ELECTRICAL DEMOLITION PLANS (SHEET E1.01) FOR PREVIOUS LOCATIONS & ELECTRICAL PARTIAL ONE-LINE RISER DIAGRAM (SHEET E6.01) FOR FURTHER INFORMATION & REQUIREMENTS.
3. CONTRACTOR SHALL PROVIDE NEW ADAPTER WIRE, XFMR, & ADDITIONAL WIRING, CONDUIT, BACKBOXES, & APPURTENANCES AS REQUIRED AT NO ADDITIONAL COST TO OWNER, NECESSARY TO PROVIDE A FULLY FUNCTIONAL, CODE-COMPLIANT INSTALLATION OF THE NEW ELECTRONIC FAUCETS; TYPICAL FOR EACH ELECTRONIC FAUCET. COORDINATE EXACT REQUIREMENTS WITH ELECTRONIC FAUCET MANUFACTURER'S INSTALLATION INSTRUCTIONS & GUIDELINES, PRIOR TO COMMENCEMENT OF WORK.
4. CONFIRM LOCATION OF 'C20 IDF' WITH CLIENT IT PERSONNEL & FIELD CONDITIONS, PRIOR TO COMMENCEMENT OF WORK / INSTALLATION OF DATA CABLING & ASSOCIATED RACEWAY.



KEY PLAN
N.T.S.

1 / E2.01 ELECTRICAL 1ST FL PARTIAL POWER PLAN
1/8" = 1'-0"

NJ Certificate of Authorization

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Arch. Nos.	21AC00012400
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MICHAEL G. MIERKOWSKI, P.E.
Title PROFESSIONAL ENGINEER License No. 24GE05063600

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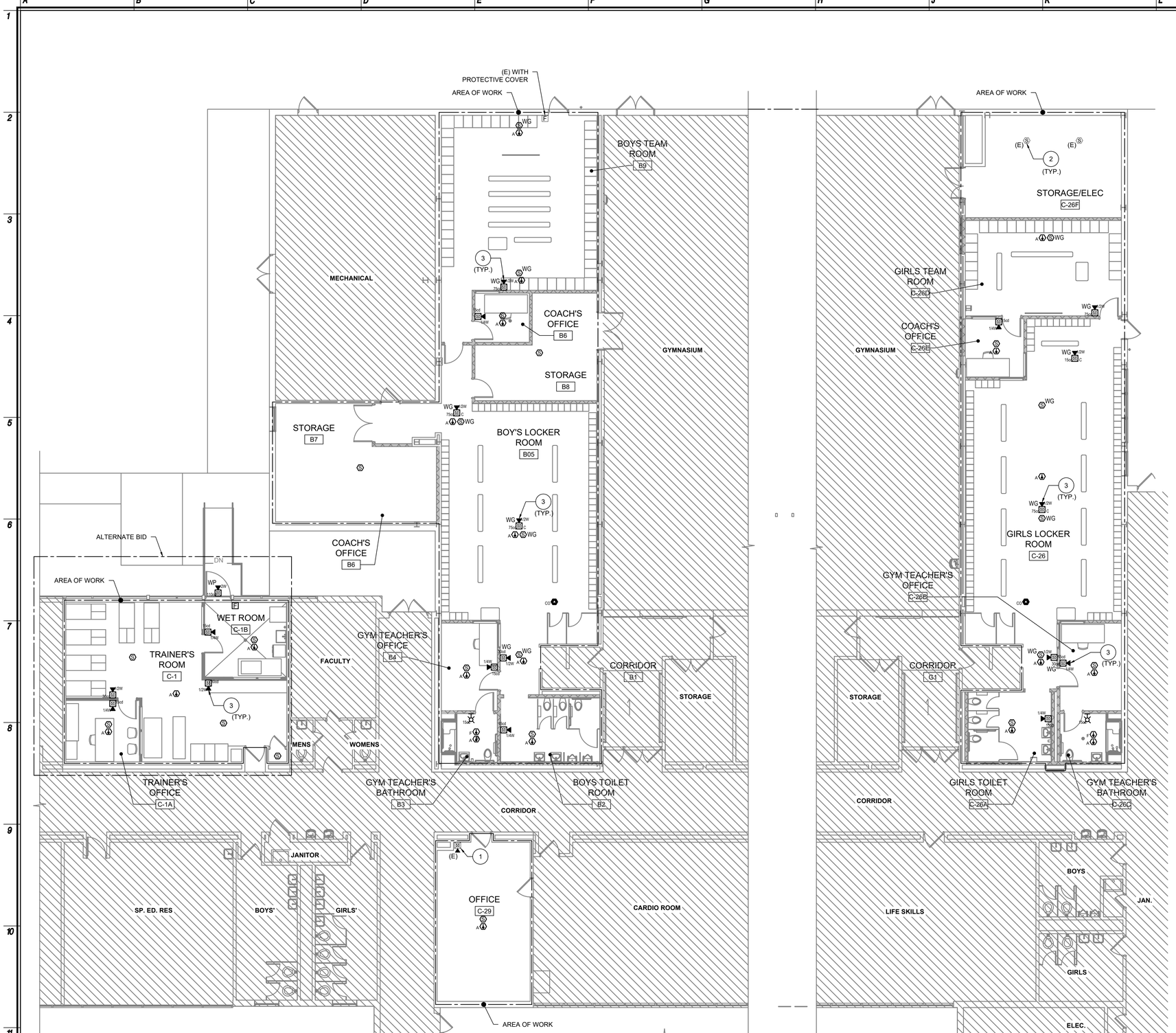
LAN ASSOCIATES
Engineering, Planning, Architecture, Surveying Inc.
1018 Laurel Oak Road, Suite 11, Voorhees, NJ 08043 | t. 856-375-2701

State Project#: 07-1770-050-XX-XXXX

ELECTRICAL PARTIAL POWER PLAN
HIGH SCHOOL LOCKER ROOM INTERIOR ALTERATIONS
GLOUCESTER CITY BOE
1300 MARKET STREET, GLOUCESTER CITY NJ, 08030

Job No. 2.20457.20
File No. 20457.20 E201

E2.01



FIRE ALARM DELEGATED DESIGN NOTES

1. THE FIRE ALARM DESIGN IS A DELEGATED DESIGN. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR APPROVAL; SHOP DRAWINGS MUST COMPLY WITH THE REQUIREMENTS OF NJ IBC SECTION 907.1.2. REFER TO DIVISION 28 SPECIFICATIONS FOR FURTHER INFORMATION & REQUIREMENTS.
2. THE ALTERATION IS CONSIDERED AN "E USE" BUILDING FOR THE PURPOSE OF DETERMINING FIRE ALARM REQUIREMENTS.
3. SMOKE DETECTION ABOVE AND BELOW FINISHED CEILING IS REQUIRED PER THE NEW JERSEY FIRE ALARM CODE, SECTION 17.5.3.1.
4. CONTRACTOR SHALL COORDINATE AND PERFORM REACCEPTANCE TESTING FOR ALL FIRE ALARM SYSTEM MODIFICATIONS IN ACCORDANCE WITH NFPA 72 AND AHJ REQUIREMENTS. PROVIDE RE-CERTIFICATION OF FIRE ALARM CONTROL PANEL (FACP) IF REQUIRED. PROVIDE FIRE WATCH FOR ANY TIME THE FACP IS NOT OPERATIONAL.
5. REFER TO ELECTRICAL DRAWINGS, INCLUDING TYPICAL FIRE ALARM RISER DIAGRAM (SHEET E6.01) & APPLICABLE DETAILS (SHEET E7.01), FOR FURTHER INFORMATION & REQUIREMENTS. FIRE ALARM CONTRACTOR SHALL BE RESPONSIBLE TO FOLLOW ALL REQUIREMENTS OF THOSE DRAWINGS.

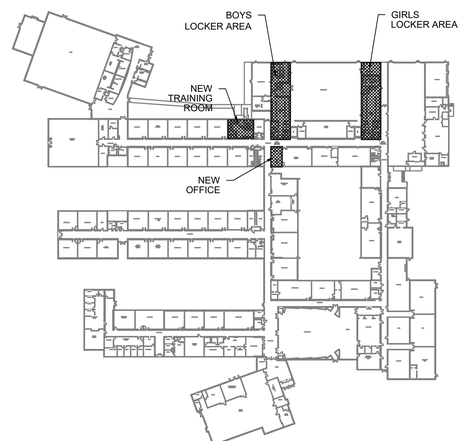
PROPOSED FIRE ALARM PLAN NOTES

1. EXISTING TO REMAIN DEVICES ARE TAGGED "(E)" FOR CLARITY. REFER TO DEMOLITION PLANS (SHEETS E1.01 & E1.02) FOR MORE INFORMATION.
2. ALL FIRE ALARM DEVICES NOT SHOWN ON PLAN ARE EXISTING TO REMAIN; PROTECT DEVICES DURING CONSTRUCTION.
3. CONTRACTOR SHALL PROVIDE POWER FOR ANY FIRE ALARM DEVICES AS NEEDED.
4. CONTRACTOR SHALL CONDUCT A THOROUGH EXAMINATION OF THE PREMISES PRIOR TO PREPARING A PROPOSAL. ANY CHANGES TO THE DESIGN MADE NECESSARY BY THE FIELD CONDITIONS SHALL BE CONVEYED TO THE ENGINEER PRIOR TO PREPARING A PROPOSAL. NO ADDITIONAL COST BEYOND THE PROPOSAL PRICE WILL BE ACCEPTED FOR FIELD CONDITIONS THAT COULD HAVE BEEN DETERMINED BY AN INSPECTION OF THE PREMISES.
5. UNLESS OTHERWISE NOTED: ALL NEW BACKBOXES, RACEWAYS, CONDUCTORS, & CABLES SHALL BE INSTALLED CONCEALED WITHIN NEW FINISHED WALLS & CEILINGS. SURFACE-MOUNTED RACEWAY, INCLUDING CONDUIT, SHALL BE PERMITTED TO RUN ON OPEN CEILINGS & EXISTING WALLS ONLY.
6. THE RACEWAY SYSTEM AND EQUIPMENT SHALL BE THOROUGHLY GROUNDED PER NATIONAL, STATE AND LOCAL CODES. PRECAUTIONS SHOULD BE TAKEN TO ENSURE ADEQUATE GROUND CONTINUITY ALONG THE CONDUIT RACEWAY.
7. THE CONTRACTOR SHALL MAKE HIS OWN TAKEOFF ON ALL QUANTITIES. IT SHALL BE HIS RESPONSIBILITY, AT HIS COST, TO INCLUDE ALL EQUIPMENT AND MATERIAL IN ORDER TO COMPLY WITH THE INTENT OF THE DRAWINGS.
8. THE CONTRACTOR SHALL SUPPLY ALL LABOR, POWER CABLES, AS NOTED ON THE DRAWINGS, CONDUIT, BOXES, FITTINGS, WIRING MATERIALS, HARDWARE, SUPPORTS, AND MISCELLANEOUS ITEMS FOR A COMPLETE INSTALLATION.
9. ANY CUTTING, PATCHING OR FINISH REPAIR OF THE WORK REQUIRED FOR THE FIRE ALARM INSTALLATION IS THE RESPONSIBILITY OF THE CONTRACTOR.
10. THE CONTRACTOR SHALL CONFORM TO ALL SAFETY RULES AND OTHER REGULATIONS, ETC. PERTAINING TO CONSTRUCTION WORK, ON THE OWNER'S PREMISES. CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT ALL REGULATIONS HAVE BEEN MET AND COORDINATE THE WORK WITH THE OWNER'S REPRESENTATIVES.
11. THE CONTRACTOR SHALL MAKE A FINAL INSPECTION OF ALL FIRE ALARM EQUIPMENT TO ENSURE THAT THERE ARE NO LOOSE CONNECTIONS OR CIRCUITS SUBJECT TO BREAKDOWN DUE TO THE PRESENCE OF FOREIGN MATERIAL.
12. THE CONTRACTOR SHALL INCLUDE IN HIS BID PROPOSAL ALL THESE COSTS, FEES AND CHARGES IN CONNECTION WITH THIS PROJECT.
13. UPON COMPLETION OF THE SYSTEM, A DEMONSTRATION BY THE MANUFACTURER'S REPRESENTATIVE SHALL BE PERFORMED, TESTING EACH DEVICE AND FUNCTION IN ACCORDANCE WITH NFPA 72. INSTRUCTIONS SHALL BE GIVEN FOR THE OPERATION AND CARE OF THE SYSTEM.
14. ALL SUSPENDED CLG. MOUNTED INITIATING DEVICES SHALL BE MOUNTED TO BAR BOX ASSEMBLIES MECHANICALLY FASTENED TO THE GRID ASSEMBLY.
15. REMOTE POWER SUPPLIES (FCPS) SHALL BE MOUNTED ABOVE HUNG CEILING WHERE INDICATED.
16. FIRE ALARM CIRCUITS SHALL BE IDENTIFIED AT TERMINAL AND JUNCTION LOCATIONS IN A MANNER THAT WILL PREVENT UNINTENTIONAL INTERFERENCE WITH THE SIGNALING CIRCUIT DURING TESTING AND SERVICING.

PROPOSED FIRE ALARM KEY NOTES

(#) SYMBOL INDICATES CONSTRUCTION KEY NOTE

1. ETR FIRE ALARM COMBINATION AUDIO/VISUAL NOTIFICATION APPLIANCE.
2. ETR FIRE ALARM INITIATION DEVICE.
3. NEW FIRE ALARM COMBINATION AUDIO/VISUAL NOTIFICATION APPLIANCE. CONTRACTOR SHALL CONFIRM WITH BUILDING FIRE ALARM SYSTEM VENDOR WHETHER SYSTEM IS A GENERAL TEMPORAL-3 ALARM OR VOICE EVACUATION SYSTEM, & PROVIDE HORN OR SPEAKER AUDIO APPLIANCE AS NECESSARY, PRIOR TO COMMENCEMENT OF WORK. TYPICAL FOR ALL NEW FIRE ALARM COMBINATION AUDIO/VISUAL NOTIFICATION APPLIANCES.



KEY PLAN
N.T.S.

1 E4.01 FIRE ALARM 1ST FL PARTIAL PLAN
1/8" = 1'-0"

NJ Certificate of Authorization	
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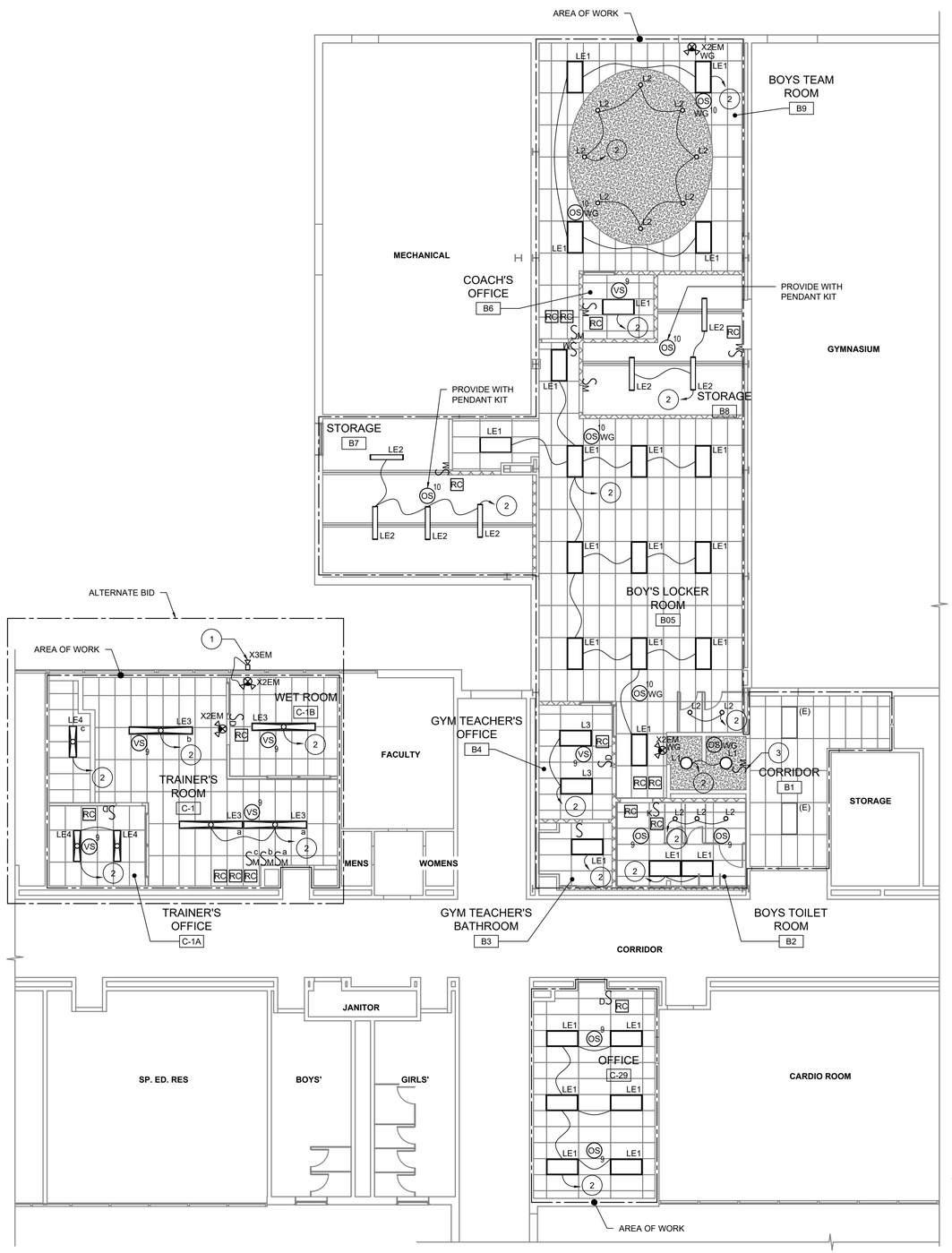
LAN ASSOCIATES
Engineering, Planning, Architecture, Surveying Inc.
1018 Laurel Oak Road, Suite 11, Voorhees, NJ 08043 ▌t: 856-375-2701

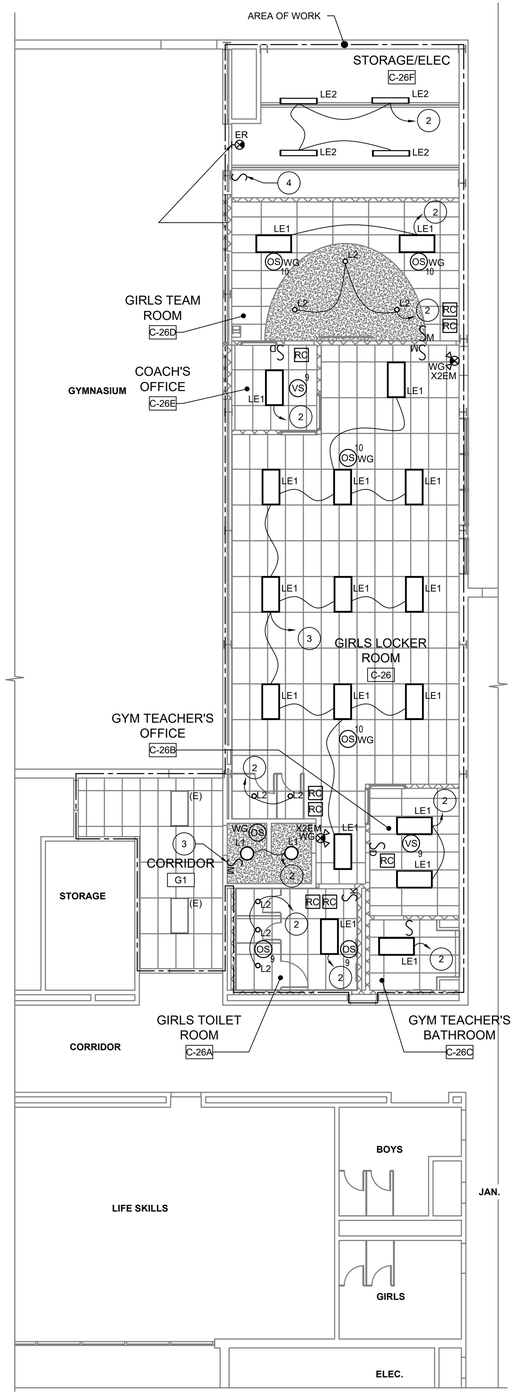
FIRE ALARM PARTIAL PLAN
HIGH SCHOOL LOCKER ROOM INTERIOR ALTERATIONS
GLOUCESTER CITY BOE
1300 MARKET STREET, GLOUCESTER CITY NJ, 08030

State Project#: 07-1770-050-XX-XXXX

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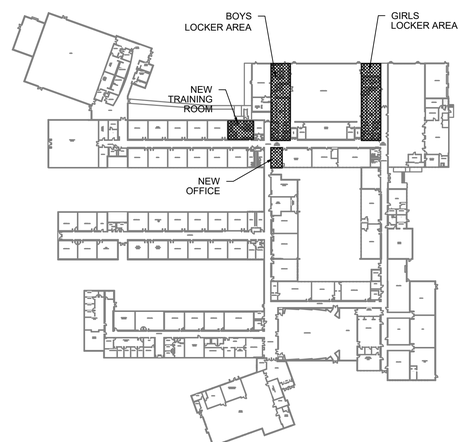
PROPOSED ELECTRICAL LIGHTING PLAN NOTES

1. EXISTING TO REMAIN DEVICES ARE TAGGED "(E)" FOR CLARITY. REFER TO DEMOLITION PLANS (SHEETS E1.01 & E1.02) FOR MORE INFORMATION.
2. CONTRACTOR SHALL CONDUCT A THOROUGH EXAMINATION OF THE PREMISES PRIOR TO PREPARING A PROPOSAL. ANY CHANGES TO THE DESIGN MADE NECESSARY BY THE FIELD CONDITIONS SHALL BE CONVEYED TO THE ENGINEER PRIOR TO PREPARING A PROPOSAL. NO ADDITIONAL COST BEYOND THE PROPOSAL PRICE WILL BE ACCEPTED FOR FIELD CONDITIONS THAT COULD HAVE BEEN DETERMINED BY AN INSPECTION OF THE PREMISES.
3. COORDINATE FINAL COLOR OF ALL NEW SWITCHES AND COVER PLATES, WITH ARCHITECT PRIOR TO PURCHASE.
4. CONTRACTOR IS RESPONSIBLE FOR FIELD COORDINATING ANY INTERFERENCE WITH OTHER TRADES. CONTRACTOR SHALL COORDINATE FINAL LIGHTING FIXTURE LOCATIONS & HEIGHTS WITH ARCHITECTURAL DRAWINGS.
5. VERIFY EXISTING CEILING & PROPOSED LIGHTING FIXTURE MOUNTING HEIGHTS IN FIELD.
6. UNLESS OTHERWISE NOTED: ALL NEW BACKBOXES, RACEWAYS, CONDUCTORS, & CABLES SHALL BE INSTALLED CONCEALED WITHIN NEW FINISHED WALLS & CEILINGS. SURFACE-MOUNTED RACEWAY, INCLUDING CONDUIT, SHALL BE PERMITTED TO RUN ON OPEN CEILINGS & EXISTING WALLS ONLY.
7. CONTRACTOR SHALL CONNECT ALL NEW STAND-ALONE EMERGENCY LIGHTING UNITS & EXIT SIGNS, LINE-SIDE OF ANY SWITCHING OR CONTROLS, TO BRANCH CIRCUIT SERVING LUMINAIRES WITHIN SAME AREA, CORRIDOR, OR ROOM.
8. REFER TO ELECTRICAL DETAILS (SHEET E7.01) FOR FURTHER INFORMATION & REQUIREMENTS.
9. REFER TO SHEET E5.51 FOR TYPICAL LIGHTING CONTROL CONNECTION DETAIL. DETAIL IS FOR REFERENCE ONLY; REFER TO MOST CURRENT SET OF MANUFACTURER'S INSTALLATION INSTRUCTIONS/WIRING DIAGRAMS FOR MORE EXACT INFORMATION.
10. REFER TO ELECTRICAL LIGHTING FIXTURE SCHEDULE & LIGHTING CONTROL SCHEDULE ON THE ELECTRICAL LEGEND (SHEET E0.01) FOR FURTHER INFORMATION ASSOCIATED WITH NEW LIGHTING FIXTURES & CONTROL EQUIPMENT INDICATED TO BE PROVIDED ON THIS DWG. PROVIDE FIXTURES & EQUIPMENT AS SCHEDULED, OR EQUIVALENTS AS APPROVED.
11. REFER TO ELECTRICAL LIGHTING NOTES & DETAILS (SHEET E5.51) FOR FURTHER INFORMATION & REQUIREMENTS. TYPICAL LIGHTING CONTROL WIRING DIAGRAMS ARE ISSUED FOR REFERENCE ONLY. REFER TO MOST CURRENT SET OF MANUFACTURER'S INSTALLATION INSTRUCTIONS, GUIDELINES, & WIRING DIAGRAMS FOR MORE EXACT INFORMATION & REQUIREMENTS.
12. PLANS DO NOT SHOW EXACT QUANTITY OF POWER PACKS REQUIRED. POWER PACK, RELAY PACKS, OR ROOM CONTROLLERS SHALL BE PROVIDED AS NEEDED TO PROVIDE A COMPLETE LIGHTING CONTROL SYSTEM THAT COMPLIES WITH THE CONTROL REQUIREMENTS BY ASHRAE 90.1.
13. REFER TO ARCHITECTURAL PLANS FOR MOUNTING HEIGHTS OF LIGHTING FIXTURES. FOR SUSPENDED LIGHTING FIXTURES; PROVIDE FIXTURES WITH MOUNTING SUPPORTS / BRACKETS & SUFFICIENT LENGTH OF AIRCRAFT CABLE TO ACHIEVE SPECIFIED MOUNTING HEIGHT; PROVIDE MOUNTING SUPPORTS / BRACKETS & AIRCRAFT CABLES BY SAME MANUFACTURER OF ASSOCIATED LIGHTING FIXTURES (ACCESSORY OPTIONS) WHERE APPLICABLE.
14. ALL LIGHTING FIXTURES THAT CONTAIN "EM" IN THEIR TAG, ARE SHADED, OR BOTH SHALL BE PROVIDED WITH INTEGRAL EMERGENCY BATTERY PACK THAT WILL PROVIDE 90 MINUTES OF ILLUMINATION UPON LOSS OF NORMAL POWER. PROVIDE ADDITIONAL UN-SWITCHED CIRCUIT CONNECTIONS TO LIGHTING FIXTURE BATTERY PACKS, AS NECESSARY.

PROPOSED ELECTRICAL KEY NOTES

(#) SYMBOL INDICATES CONSTRUCTION KEY NOTE

1. CONTRACTOR SHALL WIRE FIXTURE AS SECURITY LIGHT WITH INTEGRAL EMERGENCY BATTERY BACKUP. CONNECT TO ZONE CONTROLLER LOCATED WITHIN AND UTILIZE INTEGRAL PHOTOSENSOR FOR DAYLIGHT HARVESTING CONTROL FUNCTIONALITY.
2. CONTRACTOR SHALL CKT LIGHTING FIXTURES TO EXISTING SAFED-OFF LIGHTING BRANCH CKT PREVIOUSLY SERVING RELOCATED OR DEMOLISHED LIGHTING. MODIFY & EXTEND BRANCH CKT WIRING & CONDUIT FROM LINE-SIDE OF ANY ASSOCIATED EXISTING LIGHTING CONTROLS SERVING OTHER AREAS TO REMAIN.
3. CONTRACTOR SHALL PROVIDE NEW LIGHTING CONTROL SWITCH & WIRING WITHIN EXISTING BACKBOX & RACEWAY PREVIOUSLY HOUSING THE REMOVED LIGHT SWITCH AT SAME LOCATION. PROVIDE NEW BACKBOX & RACEWAY ONLY AS NECESSARY.
4. NEW LIGHT SWITCH FOR MANUAL LIGHTING CONTROL OF RELOCATED EXISTING LIGHTING FIXTURES.



KEY PLAN
N.T.S.

1 E5.01 ELECTRICAL 1ST FL PARTIAL LIGHTING PLAN
1/8" = 1'-0"

NJ Certificate of Authorization	
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Checked	EM
Drawn	AB

MICHAEL G. MIERKOWSKI, P.E.
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Revisions:
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LAN ASSOCIATES
Engineering, Planning, Architecture, Surveying Inc.
1018 Laurel Oak Road, Suite 11, Voorhees, NJ 08043 ▌t. 856-375-2701

State Project#: 07-1770-050-XX-XXXX

ELECTRICAL PARTIAL LIGHTING PLAN
HIGH SCHOOL LOCKER ROOM INTERIOR ALTERATIONS
GLOUCESTER CITY BOE
1300 MARKET STREET, GLOUCESTER CITY NJ, 08030

Job No. 2.20457.20
File No. 20457.20 E501

E5.01

Lighting Controls Narrative

ABBREVIATIONS
ADJ: LEVEL IS ALLOWED TO BE ADJUSTED IN THE FIELD. THE LEVEL INDICATED IN THE SOO IS FOR INITIAL PROGRAMMING PURPOSES AND THE CONTRACTOR SHALL ALLOW FOR THE LEVEL TO BE ADJUSTED DURING THE PUNCHLIST PHASE.
CIN: CONTROLS INTENT NARRATIVE
SOO: SEQUENCE OF OPERATIONS

BATHROOMS:
CIN:
- GENERAL LIGHTING IN ROOMS AUTOMATICALLY TURNS ON TO THE CODE-MAXIMUM ILLUMINANCE WHEN OCCUPANTS ENTER. LIGHTING WILL REMAIN ON WHILE A ROOM IS OCCUPIED. WHEN A ROOM IS NO LONGER OCCUPIED, ALL LIGHTING AUTOMATICALLY TURNS OFF AFTER THE MAXIMUM TIME DELAY ALLOWED BY THE ENERGY CODE.
- OCCUPANCY SENSORS WILL BE LOCATED ON THE CEILING.
- KEY SWITCH TO PROVIDE MANUAL OVERRIDE CONTROL WILL BE LOCATED AT ROOM ENTRANCE.

SOO:
- UPON INITIAL OCCUPANT DETECTION, GENERAL LIGHTING SHALL BE AUTOMATICALLY TURNED ON TO 100% (ADJ.) OF FULL POWER.
- WITHIN 20 MINUTES (ADJ.) OF ALL OCCUPANTS HAVING LEFT THE ROOM, ALL LIGHTING SHALL BE AUTOMATICALLY TURNED OFF.
- OCCUPANCY SENSOR MOUNTING AND SENSITIVITY SHALL BE SET FOR MAJOR-MOTION AND MINOR-MOTION DETECTION COVERAGE OF AN ENTIRE ROOM.
- KEY SWITCHES SHALL ALLOW THE OCCUPANT TO TEMPORARILY CHANGE THE LIGHTING OUTPUT STATE BUT SHALL NOT PERMANENTLY OVERRIDE THE OCCUPANCY SENSOR CONTROL.

LOCKER ROOMS, STORAGE ROOMS, & TEAM ROOMS:
CIN:
- GENERAL LIGHTING IN ROOMS AUTOMATICALLY TURNS PARTIALLY ON WHEN OCCUPANTS ENTER THE ROOM. GENERAL LIGHTING IN ROOMS MAY BE TURNED ON TO THE CODE-MAXIMUM ILLUMINANCE BY OCCUPANT VIA CONTROL SWITCH. LIGHTING REMAINS ON WHILE THE ROOM IS OCCUPIED AND MAY BE TURNED OFF BY THE OCCUPANT VIA CONTROL SWITCH. WHEN A ROOM IS NO LONGER OCCUPIED, ALL LIGHTING AUTOMATICALLY TURNS OFF AFTER THE MAXIMUM TIME DELAY ALLOWED BY THE ENERGY CODE.
- OCCUPANCY SENSORS WILL BE LOCATED ON THE CEILING.
- MANUAL MOMENTARY CONTACT SWITCHES TO TURN ON AND TURN OFF THE GENERAL LIGHTING ARE LOCATED AT THE ROOM ENTRANCES. GENERAL LIGHTING WILL MANUALLY BE TURNED FULLY ON BY THIS SWITCH.

SOO:
- UPON INITIAL OCCUPANT DETECTION, GENERAL LIGHTING SHALL BE AUTOMATICALLY TURNED ON TO 50% OF FULL LIGHT OUTPUT. THE SWITCH SHALL PROVIDE MANUAL CONTROL TO TURN THE GENERAL LIGHTING 100% (ADJ.) ON OR OFF.
- WITHIN 20 MINUTES (ADJ.) OF ALL OCCUPANTS HAVING LEFT THE ROOM, ALL LIGHTING SHALL BE AUTOMATICALLY TURNED OFF.
- OCCUPANCY SENSOR MOUNTING AND SENSITIVITY SHALL BE SET FOR MAJOR-MOTION DETECTION COVERAGE OF AN ENTIRE ROOM.
- MANUAL MOMENTARY CONTACT SWITCHES SHALL ALLOW THE OCCUPANT TO TEMPORARILY CHANGE THE LIGHTING OUTPUT STATE BUT SHALL NOT PERMANENTLY OVERRIDE THE OCCUPANCY SENSOR CONTROL.

TRAINER'S ROOM:
CIN:
- GENERAL LIGHTING IN ROOMS WILL BE TURNED ON BY USER MANUAL OPERATING A SWITCH. LIGHTING REMAINS ON WHILE A ROOM IS OCCUPIED AND MAY BE TURNED OFF BY THE OCCUPANT VIA CONTROL SWITCH. WHEN A ROOM IS NO LONGER OCCUPIED, ALL LIGHTING AUTOMATICALLY TURNS OFF AFTER THE MAXIMUM TIME DELAY ALLOWED BY THE ENERGY CODE. TO SAVE ENERGY, LIGHTING WILL BE QUICKLY TURNED OFF WHEN A ROOM HAS BEEN ONLY BRIEFLY OCCUPIED.
- VACANCY SENSORS WILL BE LOCATED ON THE CEILING.
- DIMMER SWITCHES TO TURN ON, TURN OFF, AND DIM THE GENERAL LIGHTING ARE LOCATED AT THE ROOM ENTRANCES. GENERAL LIGHTING WILL BE MANUALLY TURNED ON BY THESE DIMMER SWITCHES.

SOO:
- INDEPENDENT MANUAM MOMENTARY CONTRACTOR SWITCHES SHALL PROVIDE MANUAL CONTROL TO TURN ON, INCREASE, DECREASE, OR TURN OFF THE GENERAL LIGHTING. *LIGHTING SHALL NOT BE TURNED ON AUTOMATICALLY.*
- WITHIN 20 MINUTES (ADJ.) OF ALL OCCUPANTS HAVING LEFT THE ROOM, ALL LIGHTING SHALL BE AUTOMATICALLY TURNED OFF.
- VACANCY SENSOR MOUNTING AND SENSITIVITY SHALL BE SET FOR MAJOR-MOTION DETECTION COVERAGE OF AN ENTIRE ROOM.
- VACANCY SENSOR WALK-THROUGH MODE SHALL BE ENABLED, AUTOMATICALLY TURNING ALL LIGHTING OFF WITHIN 2 MINUTES IF OCCUPANCY IS NO LONGER DETECTED AFTER 30 SECONDS OF INITIAL DETECTION.
- MANUAL MOMENTARY CONTACT SWITCHES SHALL ALLOW THE OCCUPANT TO TEMPORARILY CHANGE THE LIGHTING OUTPUT STATE BUT SHALL NOT PERMANENTLY OVERRIDE THE OCCUPANCY SENSOR CONTROL.

OFFICE ROOMS (LESS THAN OR EQUAL TO 300 SQ. FT.) & WET ROOM:
CIN:
- GENERAL LIGHTING IN ROOMS WILL BE TURNED ON BY USER MANUAL OPERATING A SWITCH. LIGHTING REMAINS ON WHILE A ROOM IS OCCUPIED AND MAY BE TURNED OFF BY THE OCCUPANT VIA CONTROL SWITCH. WHEN A ROOM IS NO LONGER OCCUPIED, ALL LIGHTING AUTOMATICALLY TURNS OFF AFTER THE MAXIMUM TIME DELAY ALLOWED BY THE ENERGY CODE. TO SAVE ENERGY, LIGHTING WILL BE QUICKLY TURNED OFF WHEN A ROOM HAS BEEN ONLY BRIEFLY OCCUPIED.
- VACANCY SENSORS WILL BE LOCATED ON THE CEILING.
- DIMMER SWITCHES TO TURN ON, TURN OFF, AND DIM THE GENERAL LIGHTING ARE LOCATED AT THE ROOM ENTRANCES. GENERAL LIGHTING WILL BE MANUALLY TURNED ON BY THESE DIMMER SWITCHES.

SOO:
- INDEPENDENT DIMMER SWITCHES SHALL PROVIDE MANUAL CONTROL TO TURN ON, INCREASE, DECREASE, OR TURN OFF THE GENERAL LIGHTING. *LIGHTING SHALL NOT BE TURNED ON AUTOMATICALLY.*
- WITHIN 20 MINUTES (ADJ.) OF ALL OCCUPANTS HAVING LEFT THE ROOM, ALL LIGHTING SHALL BE AUTOMATICALLY TURNED OFF.
- VACANCY SENSOR MOUNTING AND SENSITIVITY SHALL BE SET FOR MAJOR-MOTION DETECTION COVERAGE OF AN ENTIRE ROOM.
- VACANCY SENSOR WALK-THROUGH MODE SHALL BE ENABLED, AUTOMATICALLY TURNING ALL LIGHTING OFF WITHIN 2 MINUTES IF OCCUPANCY IS NO LONGER DETECTED AFTER 30 SECONDS OF INITIAL DETECTION.
- DIMMER SWITCH SHALL ALLOW THE OCCUPANT TO TEMPORARILY CHANGE THE LIGHTING OUTPUT STATE BUT SHALL NOT PERMANENTLY OVERRIDE THE VACANCY SENSOR CONTROL.

OFFICE ROOMS (GREATER THAN 300 SQ. FT.):
CIN:
- GENERAL LIGHTING IN ROOMS AUTOMATICALLY TURNS ON TO THE CODE-MAXIMUM ILLUMINANCE WHEN OCCUPANTS ENTER. LIGHTING WILL REMAIN ON WHILE A ROOM IS OCCUPIED. WHEN A ROOM IS NO LONGER OCCUPIED, ALL LIGHTING AUTOMATICALLY TURNS OFF AFTER THE MAXIMUM TIME DELAY ALLOWED BY THE ENERGY CODE.
- OCCUPANCY SENSORS WILL BE LOCATED ON THE CEILING.
- DIMMER SWITCHES TO TURN ON, TURN OFF, AND DIM THE GENERAL LIGHTING ARE LOCATED AT THE ROOM ENTRANCES.

SOO:
- UPON INITIAL OCCUPANT DETECTION, GENERAL LIGHTING SHALL BE AUTOMATICALLY TURNED ON TO 100% (ADJ.) OF FULL POWER.
- WITHIN 20 MINUTES (ADJ.) OF ALL OCCUPANTS HAVING LEFT THE ROOM, ALL LIGHTING SHALL BE AUTOMATICALLY TURNED OFF.
- OCCUPANCY SENSOR MOUNTING AND SENSITIVITY SHALL BE SET FOR MAJOR-MOTION AND MINOR-MOTION DETECTION COVERAGE OF AN ENTIRE ROOM.
- INDEPENDENT DIMMER SWITCHES SHALL PROVIDE MANUAL CONTROL TO TURN ON, INCREASE, DECREASE, OR TURN OFF THE GENERAL LIGHTING.
- DIMMER SWITCHES SHALL ALLOW THE OCCUPANT TO TEMPORARILY CHANGE THE LIGHTING OUTPUT STATE BUT SHALL NOT PERMANENTLY OVERRIDE THE VACANCY SENSOR CONTROL.

STORAGE/ELEC ROOM & TOILET ROOMS (EQUIPPED WITH SHOWERS):
CIN:
- ROOM SHOULD NOT RELY ON AUTOMATIC SHUTOFF METHODS BUT SHOULD HAVE A MANUAL SNAP SWITCH CONTROLLING THE SPACE.

SOO:
- A WALL MOUNTED SNAP SWITCH SHALL PROVIDE CONTROL FOR ALL LIGHTS IN ROOM WITH WORKING MACHINERY, ELECTRICAL DISTRIBUTION EQUIPMENT, OR WHERE AUTOMATIC SHUTOFF WOULD ENDANGER THE SAFETY OR SECURITY OF A ROOM OR BUILDING OCCUPANTS.

ASHRAE 90.1 Requirements

CONTRACTOR'S RESPONSIBILITY
- PER CODE SECTION 9.4.3, THE LIGHTING CONTROL DEVICES AND CONTROL SYSTEM SHALL BE FUNCTIONALLY TESTED TO MEET THE REQUIREMENTS OF SECTION 9.4.3.A, 9.4.3.B AND 9.4.3.C. THE FUNCTIONAL TESTING SHALL BE PERFORMED BY A 3RD PARTY COMMISSIONING AGENT, HIRED BY AND PAID FOR BY THE CONTRACTOR. THE COMMISSIONING AGENT SHALL NOT HAVE BEEN INVOLVED WITH THE DESIGN OR THE CONSTRUCTION OF THE PROJECT AND SHALL PROVIDE DOCUMENTATION CERTIFYING THAT THE INSTALLED LIGHTING CONTROLS MEET OR EXCEED ALL DOCUMENTED PERFORMANCE CRITERIA. FUNCTIONAL TESTING SHALL BE WITNESSED BY THE OWNER'S AUTHORIZED REPRESENTATIVE.
  1) PER CODE SECTION 9.7.2.1, WITHIN 90 DAYS, OF THE DATE OF SYSTEM ACCEPTANCE, AS-BUILT DRAWINGS SHALL BE PROVIDED. INCLUDE THE LUMINAIRE LOCATIONS, LUMINAIRE AND/OR POWER PACK IDENTIFIER, CONTROL, AND CIRCUITING.
  2) PER CODE SECTION 9.7.2.2, WITHIN 90 DAYS, OF THE DATE OF SYSTEM ACCEPTANCE, AN OPERATING AND MAINTENANCE ("O&M") MANUAL SHALL BE PROVIDED AS PART OF THE CLOSE-OUT DOCUMENTS. THE O&M MANUAL SHALL INCLUDE:
  1. SUBMITTAL DATA FOR EACH PIECE OF EQUIPMENT. (BOTH LUMINAIRES AND CONTROLS).
  2. O&M MANUALS FOR EACH PIECE OF EQUIPMENT. IDENTIFY THE RECOMMENDED SCHEDULE FOR CLEANING THE LUMINAIRES, AND INSPECTING AND RECALIBRATING ALL LIGHTING CONTROLS.
  3. A COMPLETE NARRATIVE OF HOW EACH LIGHTING CONTROL SYSTEM IS INTENDED TO OPERATE INCLUDING RECOMMENDED SETTINGS.

ALL ITEMS IN THIS LIST SHALL BE PERFORMED/PROVIDED AS PART OF THE BASE BID.

Lighting Control Device Notes

1. CONTRACTOR TO COORDINATE WITH LIGHTING CONTROL MANUFACTURER FOR EXACT SYSTEM TOPOLOGY.
2. ALL SWITCHES SHALL BE ENGRAVED WITH THEIR FUNCTIONS.
3. ADDITIONAL RELAYS (AND ZONES) FOR PRIMARY AND SECONDARY SIDELIGHTED ZONES MAY BE REQUIRED AS NEEDED BASED ON ROOM REQUIREMENTS.
4. CONTRACTOR SHALL PROVIDE ANY COMMISSIONING DEVICES (SUCH AS BLUETOOTH DONGLE OR OTHER ACCESSORIES) AS REQUIRED TO FULLY COMMISSION SYSTEM BASED ON SEQUENCE OF OPERATION.

Lighting Control Wiring Requirements

1. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE AND INSTALL ALL CONDUCTORS, CABLING, & CONDUIT REQUIRED TO MEET THE INTENT OF THE DRAWINGS. (INCLUDING: POWER, 120VAC, 277VAC, 0-10V DIMMING, 24VDC, CAT5E, ETC.).
2. ALL NEW WIRING & CABLING SHALL BE PLENUM RATED.
3. ALL NEW WIRING (EXCEPT FOR DATA CABLING SUCH AS CAT5E) SHALL BE PROVIDED WITH 600V INSULATION.

Lighting Control General Notes

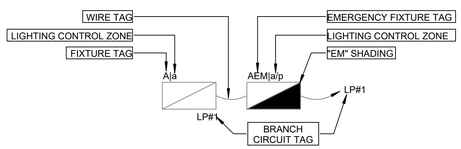
THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL WIRING, CABLING, POWER PACKS, MODULES, BRIDGES, GATEWAYS, ETC., WHETHER INDICATED OR NOT, FOR A FULLY FUNCTIONAL, COMPLETE AND OPERATIONAL SYSTEM. THE CONTROLS, WIRING, CABLING, AND MODULES INDICATED ON THE DRAWING ARE TO SHOW THE DESIGN INTENT AND ARE NOT MEANT TO BE "ALL INCLUSIVE". COORDINATE WITH MANUFACTURER DURING SHOP DRAWING PROCESS.

DESIGN NOTES:
1. SYSTEM IS BASED ON NLIGHT AIR (WIRELESS) NETWORKED LIGHTING CONTROLS, WITH SUPPLEMENTAL NLIGHT WIRED DEVICES & EQUIPMENT PROVIDED ONLY WHERE NECESSARY.
2. ALL LIGHTING CONTROL OF FIXTURES SHALL BE DONE BY WIRELESS CONNECTIONS. ALL LIGHTING CONTROL DEVICES SHALL BE POWERED BY POWER WIRING. BATTERY POWERED LIGHTING CONTROL DEVICES SHALL NOT BE PERMITTED.
3. IF AN ALTERNATE SYSTEM IS SUBMITTED, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVE "EQUAL" AND TO PROVIDE THE NEW DESIGN.
4. ONE ROOM CONTROLLER IS NEEDED PER ONE (1) ZONE TO BE CONTROLLED. ROOM CONTROLLER PLACEMENT ON DRAWINGS IS FOR SCHEMATIC PURPOSES ONLY TO INDICATE THE DESIGN INTENT; FINAL QUANTITY AND LOCATIONS SHALL BE DETERMINED BY THE CONTRACTOR AND/OR THE NLIGHT LIGHTING DESIGNER(S) DURING THE SHOP DRAWING PROCESS. CONFIRM ALL QUANTITIES TO VERIFY THE NUMBER OF RELAYS REQUIRED TO SWITCH ALL DESIRED LOADS.
5. SENSORS ARE INDICATED TO SHOW DESIGN INTENT. COORDINATE EXACT PLACEMENT WITH INPUT FROM THE MANUFACTURER'S REPRESENTATIVE AND APPROVED SHOP DRAWINGS.
6. A COMPUTER FOR ACCESSING THE LIGHTING SOFTWARE SHALL BE PROVIDED BY THE OWNER.

FACTORY STARTUP:
1. FACTORY STARTUP IS REQUIRED FOR ALL AREAS.

GENERAL NOTES:
1. INSTALL NEW SWITCHES IN NEW BACKBOXES RECESSED WITHIN NEW WALLS. SURFACE-MOUNTED BACKBOXES SHALL ONLY BE PERMITTED WHERE PROVIDED FOR INSTALLATION ONTO EXISTING WALLS.

EXTRA MATERIALS:
1. PROVIDE TWO (2) ADDITIONAL SWITCHES (OF EACH TYPE) TO BE INSTALLED AND PROGRAMMED AS REQUIRED IN THE FIELD AS DIRECTED BY THE OWNER'S AUTHORIZED REPRESENTATIVE OR FOR USE AS ATTIC STOCK.



1. CONTROL ZONE TAGS:
   a,b,c... - SWITCH ZONE TAG - LOWER CASE DESIGNATION
   a/p,b/p,c/p... - DAYLIGHT RESPONSIVE CONTROL PRIMARY ZONE TAG
   a/s,b/s,c/s... - DAYLIGHT RESPONSIVE CONTROL SECONDARY ZONE TAG

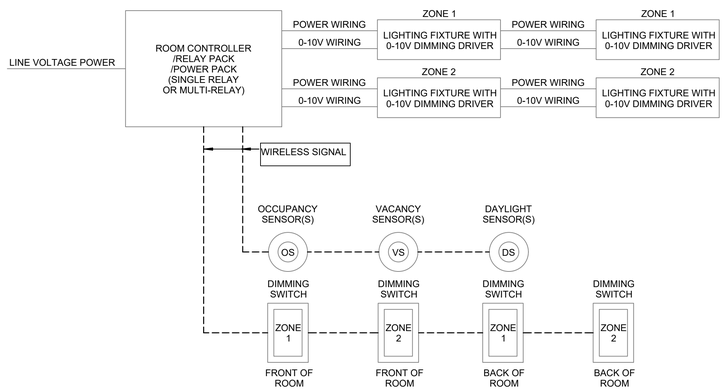
2. EMERGENCY FIXTURE MARKED WITH AN "EM" IN THE FIXTURE TAG, ARE SHADED, OR BOTH SHALL BE PROVIDED WITH INTEGRAL EMERGENCY BATTERY PACK THAT WILL PROVIDE 90 MINUTES OF ILLUMINATION UPON LOSS OF POWER. PROVIDE UN-SWITCHED CIRCUIT TO LIGHTING FIXTURES AS NEEDED.

3. BRANCH CIRCUIT MAY BE SHOWN WITH WIRE TAGS OR BRANCH CIRCUIT TAGS ON DRAWINGS. WIRE TAGS BETWEEN FIXTURES DO NOT REPRESENT ROUTING OF BRANCH CIRCUITRY; CONTRACTOR SHALL FIELD COORDINATE EXACT BRANCH CIRCUITRY ROUTING.

1 E5.01 Typical Lighting Designations
N.T.S.

LIGHTING CONTROL DEVICES

1. DETAIL IS INTENDED TO BE DIAGRAMMATIC OF TYPICAL STAND ALONE LOW-VOLTAGE LIGHTING CONTROL TOPOLOGY; CONTRACTOR TO COORDINATE WITH LIGHTING CONTROL MANUFACTURER FOR EXACT SYSTEM TOPOLOGY.
2. ALL SWITCHES SHALL BE ENGRAVED WITH THEIR FUNCTIONS.
3. ADDITIONAL RELAYS (AND ZONES) FOR PRIMARY AND SECONDARY SIDELIGHTED ZONES MAY BE REQUIRED AS NEEDED BASED ON ROOM REQUIREMENTS.
4. CONTRACTOR SHALL PROVIDE ANY COMMISSIONING DEVICES (SUCH AS BLUETOOTH DONGLE OR OTHER ACCESSORIES) AS REQUIRED TO FULLY COMMISSION SYSTEM BASED ON SEQUENCE OF OPERATION.
5. BATTERY-POWERED WIRELESS LIGHTING CONTROL DEVICES SHALL NOT BE PERMITTED. PROVIDE WIRELESS LIGHTING CONTROL DEVICES WITH LINE-VOLTAGE OR 24VDC POWER CONNECTIONS, WIRING, & CONDUIT AS REQUIRED.



2 E5.01 Typical Lighting Control Detail
N.T.S.

MICHAEL G. MIERKOWSKI, P.E.
Title PROFESSIONAL ENGINEER
License No. 24GE05063600

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LAN ASSOCIATES
Engineering, Planning, Architecture, Surveying Inc.
1018 Laurel Oak Road, Suite 11, Voorhees, NJ 08043 | t. 856-375-2701

NJ Certificate of Authorization

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Arch. Nos.	21AC00012400
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Drawn	AB

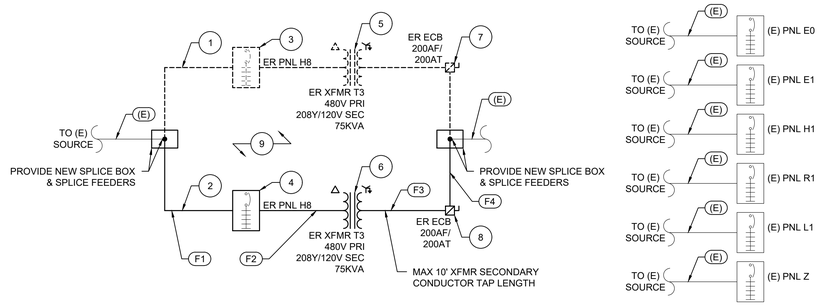
ELECTRICAL LIGHTING NOTES & DETAILS
HIGH SCHOOL LOCKER ROOM INTERIOR ALTERATIONS
GLOUCESTER CITY BOE
1300 MARKET STREET, GLOUCESTER CITY NJ, 08030

Job No. 2.20457.20
File No. 20457.20 E501

E5.51

State Project#: 07-1770-050-XX-XXXX

ELECTRICAL PARTIAL ONE-LINE DIAGRAM



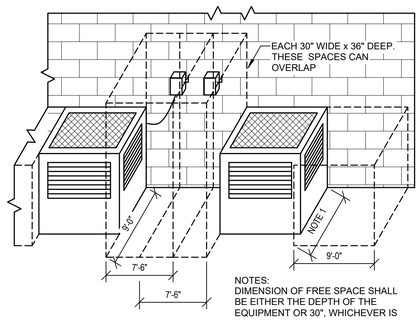
Construction Key Notes

(#) SYMBOL INDICATES CONSTRUCTION KEY NOTE

1. CONTRACTOR SHALL TRACE OUT & VERIFY EXACT EXISTING SERVICE & SOURCE OVERCURRENT PROTECTIVE DEVICE SERVING PANELBOARD, & ASSOCIATED FEEDER WIRING & CDT SIZES, PRIOR TO COMMENCEMENT OF WORK.
2. CONTRACTOR SHALL MODIFY & EXTEND ALL ASSOCIATED EXISTING FEEDER & BRANCH CKT WIRING & CDT PREVIOUSLY SERVING OR SERVED FROM SAME PANELBOARD, TO NEW PANELBOARD LOCATION. PROVIDE ALL ASSOCIATED FEEDER WIRING WITHIN IMC OR RGS CDT.
3. EXISTING 480Y/277V PANELBOARD TO BE RELOCATED; ASSOCIATED FEEDER & BRANCH CKT WIRING & CDT TO BE MODIFIED & EXTENDED AS NECESSARY. REFER TO ELECTRICAL DEMOLITION PLANS FOR FURTHER INFORMATION & REQUIREMENTS.
4. CONTRACTOR SHALL RELOCATE EXISTING 480Y/277V PANELBOARD. REFER TO ASSOCIATED PANELBOARD SCHEDULE & ELECTRICAL POWER PLANS FOR FURTHER INFORMATION & REQUIREMENTS.
5. CONTRACTOR SHALL TRACE OUT & VERIFY EXACT XFMR LINE-SIDE, LOAD-SIDE, EQUIPMENT GROUNDING, GROUNDING ELECTRODE, & BONDING WIRING & CDT SIZES, & GROUNDING ELECTRODE CONNECTION LOCATION, PRIOR TO COMMENCEMENT OF WORK.
6. CONTRACTOR SHALL PROVIDE NEW LINE-SIDE, LOAD-SIDE, & GROUNDING XFMR WIRING & CDT (SIZES TO MATCH EXISTING) AS INDICATED.
   - 6.1. PROVIDE NEW EQUIPMENT GROUNDING CONDUCTOR & SYSTEM BONDING JUMPER WIRING & CDT (SIZES TO MATCH EXISTING) AS REQUIRED. MINIMUM SIZE PERMITTED SYSTEM BONDING JUMPER SHALL BE #4 AWG.
   - 6.2. PROVIDE NEW GROUNDING ELECTRODE CONDUCTOR WIRING & CDT (SIZES TO MATCH EXISTING) AS REQUIRED, FROM NEW LOCATION OF RELOCATED XFMR TO EXISTING GROUNDING ELECTRODE CONNECTION POINT OR BUILDING STEEL & PROVIDE NEW EXOTHERMICALLY WELDED CONNECTION. MINIMUM SIZE PERMITTED GROUNDING ELECTRODE CONDUCTOR SHALL BE #4 AWG.
   - 6.3. REFER TO ELECTRICAL SYSTEM GROUNDING DETAIL & TRANSFORMER WIRING DETAIL (SHEET E7.01) FOR FURTHER INFORMATION & REQUIREMENTS.
7. CONTRACTOR SHALL TRACE OUT & VERIFY EXACT EXISTING LOAD SERVED FROM ECB, & ASSOCIATED LINE-SIDE & LOAD-SIDE WIRING & CDT SIZES, PRIOR TO COMMENCEMENT OF WORK. PROVIDE TEMPORARY POWER FOR DOWNSTREAM CRITICAL LOADS (SUCH AS FIRE ALARM CIRCUITS), AS NECESSARY.
8. CONTRACTOR SHALL RE-CIRCUIT RELOCATED EXISTING ECB TO RELOCATED EXISTING PANELBOARD (WIRING & CDT SIZES TO MATCH EXISTING), MODIFY & EXTEND LOAD-SIDE WIRING & CDT, TO NEW ECB LOCATION.
9. CONTRACTOR SHALL COORDINATE EXACT PHASING, SCHEDULING, & SHUTDOWN REQUIREMENTS ASSOCIATED WITH THE ELECTRICAL EQUIPMENT RELOCATIONS WITH BUILDING MANAGEMENT, PRIOR TO COMMENCEMENT OF WORK. CONTRACTOR SHALL INSTALL NEW WIRING & CONDUIT FOR ALL AFFECTED CIRCUITS, PRIOR TO RELOCATING EQUIPMENT.

Riser Diagram General Notes

1. All short circuit interrupting ratings shown, whether AIC or MVA IC are calculated 3ϕ symmetrical values at the line terminals of the equipment, with the exception of 10,000 AIC values. The withstand short circuit current ratings of protective devices and bus bracings shall be equal to or greater than the values indicated.
2. Unless otherwise noted all circuit breakers, and/or switches are three (3) pole unless noted otherwise.
3. Refer to panelboard schedules for additional information.
4. Junction and pull boxes are not necessarily shown on this drawing and shall be provided where necessary and sized in accordance with the National Electrical Code and installed where required.
5. Install UL Listed circuit breaker padlocking devices for service and maintenance personnel on all over current protection devices. The device must have provisions for placement of a lock on it to secure the device in the off position. The lock-out device must be part of the disconnect assembly and must remain in place after the padlock is removed, whether it is a fused disconnect switch, a single circuit breaker, or a circuit breaker in a panelboard. A device that is attached to the circuit breaker handle by a set screw is not an acceptable means to serve as a safe method of locking the device in the off position.
6. Per NEC 110.24(A) the maximum available fault current and the date the fault current calculation was performed shall be legibly marked on the service equipment. The label shall be constructed from 1/16" thick plastic laminated material. Engrave through the colored material to contrasting color sub-layer. Example: Maximum available fault current: 34,000 Symmetrical RMS Amperes Date 12/1/17.
7. Per NEC 110.16: "Electrical equipment, such as panelboards, in other than dwelling occupancies, which are likely to require examination, adjustment, servicing, or maintenance while energized, shall be field marked to warn qualified persons of potential electric arc flash hazards. The marking shall be located so as to be clearly visible to qualified persons before examination, adjustment, servicing, or maintenance of the equipment." The NEC labeling requirements apply to any electrical equipment installed or modified after 2002. The warning label shall comply with ANSI Z535.4, which specifies colors and signal words to be used.
8. Per NEC 408.4(A), every circuit and circuit identification shall be legibly identified as to its clear, evident, and specific purpose of use.
9. Where raceways contain conductors 4 AWG and larger and enter an enclosure, the conductors must be protected from abrasion during and after installation by a fitting that provides a smooth, rounded insulating surface, such as an insulating bushing [300.4(F)]. For IMC and RMC, a metal or plastic bushing must be installed on conduit threads at terminations in accordance with 300.4(F), unless the design of the box, fitting, or enclosure is such as to afford equivalent protection [344.46 and 342.46].



NOTES:
DIMENSION OF FREE SPACE SHALL BE EITHER THE DEPTH OF THE EQUIPMENT OR 30", WHICHEVER IS GREATER.

1 E6.01 — Electrical Equipment Free Space Detail

N.T.S.

One-Line Diagram

SYMBOL — DESCRIPTION

- 300AT / 400AF / #P — **CIRCUIT BREAKER -** LOW VOLTAGE, THERMAL MAGNETIC
  "AT" - TRIP SETTING
  "AF" - FRAME SIZE
  "#P" - No. OF POLES (3-POLE UNLESS NOTED OTHERWISE)
- 300AF / 400AS / #P — **FUSED DISCONNECT SWITCH -**
  "AF" - SWITCH AMPERAGE RATING
  "AS" - FUSE AMP SIZE
  "#P" - No. OF POLES (3-POLE UNLESS NOTED OTHERWISE)
- 400A — **DISCONNECT SWITCH -**
  "A" - SWITCH AMPERAGE RATING
- XFMR T: PRI / SEC — **TRANSFORMER -** LOW VOLTAGE, DRY-TYPE WITH COPPER WINDINGS. REFER TO XFMR SCHEDULE FOR ADDITIONAL REQUIREMENTS.
- ##AS / ##AF — **FUSED DISCONNECT SWITCH -**
  "AS" - SWITCH AMPERAGE RATING
  "AF" - FUSE AMP SIZE
- ECB ##AF / ##AT — **ENCLOSED CIRCUIT BREAKER -**
  "AF" - BREAKER FRAME SIZE
  "AT" - BREAKER TRIP RATING
- **EARTH GROUND CONNECTION**
- **FRAME/CHASSIS GROUND CONNECTION**
- **PANELBOARD -** MAIN BREAKER OR MAIN LUG AS INDICATED.
- **MOTOR**
- SPD — **SURGE PROTECTION DEVICE**
- M — **UTILITY METER**
- **ENCLOSURE**
- **TROUGH -** CODE SIZED WIRING TROUGH

Feeder Schedule

(#) SYMBOL INDICATES ONE-LINE KEY NOTE

TAG	# OF SETS	WIRE SIZES	CONDUIT	NOTES
(E)	(E)	(E)	(E)	1,3
F1	2	(4) 350KCMIL,#1G	3"C	1,3,4,5
F2	1	(3) #1, #6G	1-1/2"C	1,3,4,5
F3	1	(4) #3/0,#4G	2-1/2"C	1,3,4,5
F4	1	(4) #3/0,#6G	2-1/2"C	1,3,4,5

General Feeder Schedule Notes (Applies to all Feeders):

1. ALL CONDUCTORS ARE COPPER UNLESS OTHERWISE NOTED.
2. EQUIPMENT RATED LESS FOR LESS THAN 100A SHALL BE ASSUMED TO HAVE A TERMINATION RATING OF 60°C.
3. EQUIPMENT RATED 100A OR MORE SHALL BE ASSUMED TO HAVE A TERMINATION RATING OF 75°C.
4. COORDINATE FEEDER ROUTE WITH FIELD CONDITIONS, PRIOR TO COMMENCEMENT OF WORK.
5. CONTRACTOR SHALL NOTE: FEEDER SCHEDULE DESIGNATES MINIMUM PERMITTED FEEDER SIZES FOR GIVEN AMPACITY & HAS BEEN PROVIDED FOR PRICING PURPOSES. CONTRACTOR SHALL VERIFY EXISTING FEEDER WIRING & CONDUIT SIZES IN FIELD. IF SIZES ARE FOUND TO BE GREATER THAN THE MINIMUM INDICATED WITHIN THIS SCHEDULE, THE CONTRACTOR SHALL MODIFY & EXTEND FEEDER WIRING & CONDUIT, USING SIZES TO MATCH EXISTING.

Fire Alarm Circuits

1. ALL CIRCUITS SHALL BE LOADED TO NO MORE THAN 80% CAPACITY.
2. CONTRACTOR SHALL DETERMINE THE REQUIRED NUMBER OF AUDIO AND NOTIFICATION CIRCUITS AS WELL AS AMPLIFIERS, POWER SUPPLIES, & BOOSTER PANELS TO MEET THE 80% CAPACITY REQUIREMENTS.
3. SLC'S SHALL BE CONFIGURED SO THAT A SINGLE FAULT SHALL NOT CAUSE THE LOSS OF THE DEVICES ON MORE THAN ONE ZONE (FLOORS, AREAS SEPARATED BY FIRE/SMOKE BARRIERS, ETC.).

Fire Alarm Riser - General Notes

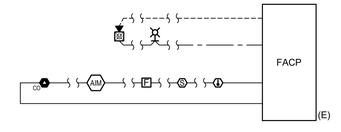
1. DIAGRAM IS SCHEMATIC ONLY AND DOES NOT NECESSARILY REPRESENT ACTUAL DEVICE QUANTITIES UNLESS OTHERWISE NOTED. REFER TO PLANS AND NOTES FOR DEVICE QUANTITIES.
2. REFER TO THE FLOOR PLANS FOR PROPOSED QUANTITIES AND LOCATIONS OF EQUIPMENT. QUANTITY AND SIZE OF CONDUCTORS TO BE DETERMINED BY CONTRACTOR.
3. ALL WIRING REQUIREMENTS SHALL BE AS PER MANUFACTURER'S RECOMMENDATIONS.
4. PROVIDE END OF LINE RESISTORS AS REQUIRED.
5. PROVIDE ADDRESSABLE MONITORING AND CONTROL MODULES AS RECOMMENDED BY MANUFACTURER.
6. STROBE CANDELA MUST BE SIZED PER NFPA 72 REQUIREMENTS WITH MINIMUM SETTINGS AS PER THE PLAN.
7. ALL PANEL BATTERY BACKUP SHALL BE SIZED A MINIMUM OF 24HR STANDBY & 15 MINUTES OF ALARM.
8. A COMPLETE SET FOR FIRE ALARM PRODUCT CUTSHEETS, FIRE ALARM SHOP DRAWINGS (INCLUDING A FULL RISER DIAGRAM AND FLOOR PLANS WITH ROUTING), AND BATTERY/VOLTAGE/LOAD CALCULATIONS MUST BE SUBMITTED AND APPROVED PRIOR TO INSTALLATION.

Fire Alarm Riser - Wire Schedule

Type	Description	Wire Requirements
A	Notification Circuit	2-Conductor Unshielded Twisted Pair, #14 AWG Solid
B	Door Holder Circuit	2-Conductor Twisted Pair, #14 AWG Solid
C	Ground Wire	1-Conductor, #12 AWG Solid (Green)
D	Remote Test Switch LED Circuit	(2) 2-Conductor, #18 AWG Solid
E	Signaling Line Circuit	2-Conductor Unshielded Twisted Pair, #18 AWG Solid
F	Power Circuit	2-Conductor, #14 AWG Solid
G	Relay Circuit	2-Conductor, #14 AWG Solid
H	Audio Circuit	2-Conductor Shielded Twisted Pair, #16 AWG
J	Main 120V Power Circuit	2-Conductor, #12 AWG Solid & 1-Conductor #12 AWG Solid Ground (Green). Connect to new "Red Colored" 20A, 1P Breaker in closesest available panel.

Notes:

1. Wire listed for reference only, wiring type and connections shall be as per the specifications and the manufacturer's published documentation.
2. Wire size indicated is the minimum size. Contractor shall "upsize" conductor size as required for voltage drop.
3. Conduit fill shall be less than 40% as per the NEC. Wiring shall be either plenum rated, run in conduit/surface mounted raceway, or utilize fire alarm/control MC cable. Refer to notes for acceptacble locations for each type.



Typical Fire Alarm Riser Diagram

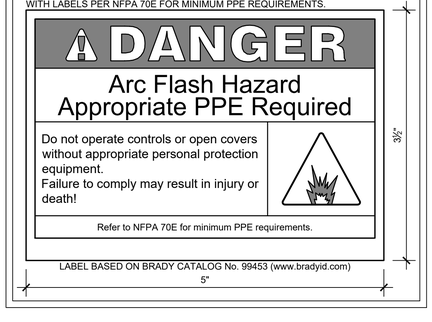
N.T.S.

Fire Alarm Riser - Wiring Legend

- NEW HORN/SPEAKER CIRCUIT. QUANTITY OF AMPLIFIERS AND SIZE OF CONDUCTORS TO BE DETERMINED BY THE CONTRACTOR/ FIRE ALARM VENDOR TO ACCOUNT FOR VOLTAGE DROP AND SHALL BE INCLUDED ON THE SIGNED SHOP DRAWINGS. ACTIVE ALARM CAPACITY MUST NOT EXCEED 80%.
- NOTIFICATION APPLIANCE CIRCUIT. QUANTITY OF NAC'S AND SIZE OF CONDUCTORS TO BE DETERMINED BY THE CONTRACTOR/FIRE ALARM VENDOR TO ACCOUNT FOR VOLTAGE DROP AND SHALL BE INCLUDED ON THE SIGNED SHOP DRAWINGS. ACTIVE ALARM CAPACITY MUST NOT EXCEED 80%.
- 24VDC CLASS "A" INITIATING DEVICE CIRCUIT. SIZE OF CONDUCTORS TO BE DETERMINED BY THE CONTRACTOR/ FIRE ALARM VENDOR TO ACCOUNT FOR VOLTAGE DROP AND SHALL BE INCLUDED ON THE SIGNED SHOP DRAWINGS. CIRCUIT CAPACITY MUST NOT EXCEED 80%. CIRCUIT SHALL BE ARRANGED SO THAT MORE THAN ONE ZONE CAN BE LOST ON A SINGLE FAULT.

Arc Flash Label Requrements

ALL EQUIPMENT WHERE THE RISK OF ARC FLASH EXISTS, i.e.,: SWITCHBOARDS, PANELBOARDS, INDUSTRIAL CONTROL PANELS, MOTOR CONTROL CENTERS, DISCONNECT SWITCHES, HVAC EQUIPMENT, ETC., SHALL BE FIELD MARKED WITH LABELS PER NFPA 70E FOR MINIMUM PPE REQUIREMENTS.



NJ Certificate of Authorization

Engr. Nos.	24GA27937500
Arch. Nos.	21AC00012400
Date	11/3/26
Checked	EM
Drawn	AB

MICHAEL G. MIERKOWSKI, P.E.
Title PROFESSIONAL ENGINEER
License No. 24GE05063600

Revisions:

ISSUED FOR BID
11/03/26

LAN ASSOCIATES
Engineering, Planning, Architecture, Surveying Inc.
1018 Laurel Oak Road, Suite 11, Voorhees, NJ. 08043 | t. 856-375-2701

State Project#: 07-1770-050-XX-XXXX

ELECTRICAL ONE-LINE & FA RISER

HIGH SCHOOL LOCKER ROOM INTERIOR ALTERATIONS
GLOUCESTER CITY BOE
1300 MARKET STREET, GLOUCESTER CITY NJ, 08030

Job No. 2.20457.20

File No. 20457.20 E601

E6.01

PANELBOARD NAME: (E) PNL R1

LOCATION:	MECHANICAL RM.	**VOLTAGE:**	208	**kAIC RATING:**		EXISTING		**PANEL FEEDER**															
SUPPLY FROM:	EXISTING	**PHASE:**	3	**MAINS TYPE:**		MCB		C		G		R											
MOUNTING:	SURFACE	**WIRE:**	4	**MCB RATING (A):**		125		1 SET															
ENCLOSURE:	NEMA 1	**BUS SIZE (A):**	250	**OCPD TYPE:**		STD		ETR		ETR		ETR											
CKT	**Load Name**	**C**	**G**	**R**	**Trip (A)**	**Poles**	**A1**	**A2**	**B1**	**B2**	**C1**	**C2**	**Poles**	**Trip (A)**	**C**	**G**	**R**	**Load Name**	**CKT**				
1	EXISTING LOAD	-	-	-	20	1	1,000	1,000					1	20	-	-	-	EXISTING LOAD	2				
3	EXISTING LOAD	-	-	-	20	1			360	1,000			1	20	-	-	-	EXISTING LOAD	4				
5	EXISTING LOAD	-	-	-	20	1					720	720	1	20	-	-	-	EXISTING LOAD	6				
7	EXISTING LOAD	-	-	-	20	1	720	1,920					1	20	-	-	-	EXISTING LOAD	8				
9	EXISTING LOAD	-	-	-	20	1			720	720			1	20	-	-	-	EXISTING LOAD	10				
11	EXISTING LOAD	-	-	-	20	1					720	250	1	20	-	-	-	EXISTING LOAD	12				
13	EXISTING LOAD	-	-	-	20	1	750	180					1	20	-	-	-	EXISTING LOAD	14				
15	EXISTING LOAD	-	-	-	20	1			500	180			1	20	-	-	-	EXISTING LOAD	16				
17	EXISTING LOAD	-	-	-	20	1					360	180	1	20	-	-	-	EXISTING LOAD	18				
19	EXISTING LOAD	-	-	-	20	1	1,000	1,920					1	20	-	-	-	EXISTING LOAD	20				
21	EXISTING LOAD	-	-	-	20	1			1,000	1,920									22				
23	EXISTING LOAD	-	-	-	20	1					1,000	1,920	3	20	-	-	-	EXISTING LOAD	24				
25	EXISTING LOAD	-	-	-	20	1	720	1,920											26				
27	EXISTING LOAD	-	-	-	20	1			1,000	1,000			1	20	-	-	-	EXISTING LOAD	28				
29	EXISTING LOAD	-	-	-	20	1					1,000	760	1	**20**	**(2) 8 ga.**	**8 ga.**	**3/4"**	**TRAINER OFFICE C-1A**	**30***				
31*	**BOYS TEAM B9 & LOCKER B05 CONV**	**(2) 10 ga.**	**10 ga.**	**3/4"**	**20**	**1**	720	1,000					**1**	**20**	**(2) 12 ga.**	**12 ga.**	**3/4"**	**RESTROOMS B2 & B3 FIXTURES**	**32***				
33*	**STORAGE B8**	**(2) 12 ga.**	**12 ga.**	**3/4"**	**20**	**1**			720	1,000			**1**	**20**	**(2) 10 ga.**	**10 ga.**	**3/4"**	**RESTROOMS C-26A & C-26C FIXTURES**	**34***				
35*	**STORAGE B7**	**(2) 12 ga.**	**12 ga.**	**3/4"**	**20**	**1**					720	540	**1**	**20**	**(2) 6 ga.**	**6 ga.**	**3/4"**	**GIRLS TEAM C-26D & LOCKER C-26 CONV**	**36***				
37*	**COACH OFFICE B6**	**(2) 12 ga.**	**12 ga.**	**3/4"**	**20**	**1**	760	760					**1**	**20**	**(2) 6 ga.**	**6 ga.**	**3/4"**	**COACH OFFICE C-26E**	**38***				
39*	**GYM TEACHER OFFICE B4**	**(2) 10 ga.**	**10 ga.**	**3/4"**	**20**	**1**			760	760			**1**	**20**	**(2) 6 ga.**	**6 ga.**	**3/4"**	**GYM TEACHER OFFICE C-26B**	**40***				
41*	**RESTROOMS B2 & B3 CONV**	**(2) 10 ga.**	**10 ga.**	**3/4"**	**20**	**1**					360	360	**1**	**20**	**(2) 6 ga.**	**6 ga.**	**3/4"**	**RESTROOMS C-26A & C-26C CONV**	**42***				
VA PER Φ					**14,370**				**11,640**				**9,610**										
TOTAL PANEL VA					**35,620**																		
AMPS PER Φ					**120**				**97**				**80**										
TOTAL PANEL AMP					**120**																		

ALL CONDUCTORS SHALL BE COPPER. SIZE INDICATED BY:
"C" - CURRENT-CARRYING CONDUCTORS, "G" - GROUND, "R" - RACEWAY

RACEWAY REQUIREMENTS: WHERE A RACEWAY SIZE IS SPECIFIED, IT IS TO INDICATE THE MINIMUM SIZE AND DOES NOT PRECLUDE THE USE OF MC CABLE. REFER TO THE "APPLICATIONS OF RACEWAYS" SCHEDULE ON THE DRAWINGS FOR ALLOWABLE WIRING METHODS.

PANEL NOTES:
- ASTERICK ("*") SHALL DESIGNATE: PROVIDE NEW BRANCH CKT BREAKER FOR INDICATED CIRCUIT.
- NEW CKTS SHOWN FOR DESIGN INTENT ONLY, VERIFY AVAILABLE CKT #'S IN FIELD.

PANELBOARD NAME: (E) PNL E1

LOCATION:	MECHANICAL RM.	**VOLTAGE:**	208	**kAIC RATING:**		EXISTING		**PANEL FEEDER**															
SUPPLY FROM:	EXISTING	**PHASE:**	3	**MAINS TYPE:**		MCB		C		G		R											
MOUNTING:	SURFACE	**WIRE:**	4	**MCB RATING (A):**		100		1 SET															
ENCLOSURE:	NEMA 1	**BUS SIZE (A):**	100	**OCPD TYPE:**		STD		ETR		ETR		ETR											
CKT	**Load Name**	**C**	**G**	**R**	**Trip (A)**	**Poles**	**A1**	**A2**	**B1**	**B2**	**C1**	**C2**	**Poles**	**Trip (A)**	**C**	**G**	**R**	**Load Name**	**CKT**				
1	EXISTING LOAD	-	-	-	20	1	-	-					1	20	-	-	-	EXISTING LOAD	2				
3	EXISTING LOAD	-	-	-	20	1			-	-			1	20	-	-	-	EXISTING LOAD	4				
5	EXISTING LOAD	-	-	-	20	1					-	-	1	20	-	-	-	EXISTING LOAD	6				
7	EXISTING LOAD	-	-	-	20	1	-	-					1	20	-	-	-	EXISTING LOAD	8				
9	EXISTING LOAD	-	-	-	20	1			-	-			1	20	-	-	-	EXISTING LOAD	10				
11	EXISTING LOAD	-	-	-	20	1					-	-	1	20	-	-	-	EXISTING LOAD	12				
13	EXISTING SPACE	-	-	-	-	-	-	-					-	-	-	-	-	EXISTING SPACE	14				
15	EXISTING SPACE	-	-	-	-	-			-	-			-	-	-	-	-	EXISTING SPACE	16				
17	EXISTING SPACE	-	-	-	-	-					-	-	-	-	-	-	-	EXISTING SPACE	18				
19	EXISTING SPACE	-	-	-	-	-	-	-					-	-	-	-	-	EXISTING SPACE	20				
21	EXISTING SPACE	-	-	-	-	-			-	-			-	-	-	-	-	EXISTING SPACE	22				
23	EXISTING SPACE	-	-	-	-	-					-	-	-	-	-	-	-	EXISTING SPACE	24				
25	EXISTING SPACE	-	-	-	-	-	-	-					-	-	-	-	-	EXISTING SPACE	26				
27	EXISTING SPACE	-	-	-	-	-			-	-			-	-	-	-	-	EXISTING SPACE	28				
29	EXISTING SPACE	-	-	-	-	-					-	-	-	-	-	-	-	EXISTING SPACE	30				
VA PER Φ					**0**				**0**				**0**										
TOTAL PANEL VA									**0**														
AMPS PER Φ					**0**				**0**				**0**										
TOTAL PANEL AMP									**0**														

ALL CONDUCTORS SHALL BE COPPER. SIZE INDICATED BY:
"C" - CURRENT-CARRYING CONDUCTORS, "G" - GROUND, "R" - RACEWAY

RACEWAY REQUIREMENTS: WHERE A RACEWAY SIZE IS SPECIFIED, IT IS TO INDICATE THE MINIMUM SIZE AND DOES NOT PRECLUDE THE USE OF MC CABLE. REFER TO THE "APPLICATIONS OF RACEWAYS" SCHEDULE ON THE DRAWINGS FOR ALLOWABLE WIRING METHODS.

PANEL NOTES:
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PANELBOARD NAME: (E) PNL L1

LOCATION:	MECHANICAL RM.	**VOLTAGE:**	208	**kAIC RATING:**		EXISTING		**PANEL FEEDER**															
SUPPLY FROM:	EXISTING	**PHASE:**	3	**MAINS TYPE:**		MCB		C		G		R											
MOUNTING:	SURFACE	**WIRE:**	4	**MCB RATING (A):**		100		1 SET															
ENCLOSURE:	NEMA 1	**BUS SIZE (A):**	100	**OCPD TYPE:**		STD		ETR		ETR		ETR											
CKT	**Load Name**	**C**	**G**	**R**	**Trip (A)**	**Poles**	**A1**	**A2**	**B1**	**B2**	**C1**	**C2**	**Poles**	**Trip (A)**	**C**	**G**	**R**	**Load Name**	**CKT**				
1	EXISTING LOAD	-	-	-	20	1	-	-					1	20	-	-	-	EXISTING LOAD	2				
3	EXISTING LOAD	-	-	-	20	1			-	-			1	20	-	-	-	EXISTING LOAD	4				
5	EXISTING LOAD	-	-	-	20	1					-	-	1	20	-	-	-	EXISTING LOAD	6				
7	EXISTING LOAD	-	-	-	20	1	-	-					1	20	-	-	-	EXISTING LOAD	8				
9	EXISTING LOAD	-	-	-	20	1			-	-			1	20	-	-	-	EXISTING LOAD	10				
11	EXISTING LOAD	-	-	-	20	1					-	-	1	20	-	-	-	EXISTING LOAD	12				
13	EXISTING LOAD	-	-	-	20	1	-	-					1	20	-	-	-	EXISTING LOAD	14				
15	EXISTING LOAD	-	-	-	20	1			-	-			1	20	-	-	-	EXISTING LOAD	16				
17	EXISTING LOAD	-	-	-	20	1					-	-	-	-	-	-	-	EXISTING SPACE	18				
19	EXISTING SPACE	-	-	-	-	-	-	-					-	-	-	-	-	EXISTING SPACE	20				
21	EXISTING SPACE	-	-	-	-	-			-	-			-	-	-	-	-	EXISTING SPACE	22				
23	EXISTING SPACE	-	-	-	-	-					-	-	-	-	-	-	-	EXISTING SPACE	24				
25	EXISTING SPACE	-	-	-	-	-	-	-					-	-	-	-	-	EXISTING SPACE	26				
27	EXISTING SPACE	-	-	-	-	-			-	-			-	-	-	-	-	EXISTING SPACE	28				
29	EXISTING SPACE	-	-	-	-	-					-	-	-	-	-	-	-	EXISTING SPACE	30				
31	EXISTING SPACE	-	-	-	-	-	-	-					-	-	-	-	-	EXISTING SPACE	32				
33	EXISTING SPACE	-	-	-	-	-			-	-			-	-	-	-	-	EXISTING SPACE	34				
35	EXISTING SPACE	-	-	-	-	-					-	-	-	-	-	-	-	EXISTING SPACE	36				
37	EXISTING SPACE	-	-	-	-	-	-	-					-	-	-	-	-	EXISTING SPACE	38				
39	EXISTING SPACE	-	-	-	-	-			-	-			-	-	-	-	-	EXISTING SPACE	40				
41	EXISTING SPACE	-	-	-	-	-					-	-	-	-	-	-	-	EXISTING SPACE	42				
VA PER Φ					**0**				**0**				**0**										
TOTAL PANEL VA									**0**														
AMPS PER Φ					**0**				**0**				**0**										
TOTAL PANEL AMP									**0**														

RACEWAY REQUIREMENTS: WHERE A RACEWAY SIZE IS SPECIFIED, IT IS TO INDICATE THE MINIMUM SIZE AND DOES NOT PRECLUDE THE USE OF MC CABLE. REFER TO THE "APPLICATIONS OF RACEWAYS" SCHEDULE ON THE DRAWINGS FOR ALLOWABLE WIRING METHODS.

PANEL NOTES:
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APPLICATION OF RACEWAYS

RACEWAY TYPE	APPLICATION
RIGID STEEL GALVANIZED CONDUIT (RMC OR GRC; NEC 344)	WHERE EXPOSED TO MECHANICAL INJURY, WHERE SPECIFICALLY REQUIRED, INDOORS WHERE EXPOSED TO MOISTURE, WHERE REQUIRED BY CODES AND FOR ALL CIRCUITS IN EXCESS OF 600 VOLTS.
INTERMEDIATE METAL CONDUIT (IMC; NEC 342)	WHERE EXPOSED TO MECHANICAL INJURY, WHERE SPECIFICALLY REQUIRED, INDOORS WHERE EXPOSED TO MOISTURE, WHERE REQUIRED BY CODES AND FOR ALL CIRCUITS IN EXCESS OF 600 VOLTS.
ELECTROMAGNETIC TUBING (EMT; NEC 358)	USE IN EVERY INSTANCE EXCEPT WHERE ANOTHER MATERIAL IS SPECIFIED.
FLEXIBLE METAL CLAD CABLES (FMC; NEC 348)	LIGHTING AND RECEPTACLE BRANCH CIRCUITS CONCEALED IN HOLLOW SPACES OF BUILDING. MAY NOT BE USED IN CORRIDORS, PLACES OF ASSEMBLY, OR WHERE PROHIBITED BY CODE.
METAL-CLAD CABLES (MC CABLE; NEC 330)	USE IN DRY AREAS FOR CONNECTIONS TO LIGHTING FIXTURES IN HUNG CEILINGS, CONNECTIONS TO EQUIPMENT INSTALLED REMOVABLE PANELS OF HUNG CEILINGS. AT USE IN ALL TRANSFORMER OR EQUIPMENT RACEWAY CONNECTIONS WHERE SOUND AND VIBRATION ISOLATION IS REQUIRED.
LIQUID-TIGHT FLEXIBLE METALLIC OR NON-METALLIC CONDUIT (LFMC OR LFNC; NEC 350 OR 356)	USE IN AREAS SUBJECT TO MOISTURE WHERE FLEXIBLE STEEL IS UNACCEPTABLE, AT CONNECTIONS TO ALL MOTORS, AND ALL RAISED FLOOR AREAS .
RIGID POLYVINYL CHLORIDE CONDUIT (PVC; NEC 352)	1. SCHEDULE 40 - WHERE RACEWAYS ARE IN SLAB IN BELOW GRADE LEVELS, OR FOR RACEWAY DUCT BANKS. 2. SCHEDULE 80 - FOR UNDERGROUND RACEWAYS OUTSIDE OF BUILDING WHICH ARE NOT ENCASED IN CONCRETE.ALSO FOR SECONDARY CONDUCTORS OF CATHODE LIGHTING SYSTEMS.
METAL WIREWAYS AND AUX. GUTTERS (NEC SECTIONS 376 & 366)	WHERE INDICATED ON THE DRAWINGS AND AS OTHERWISE SPECIFICALLY REQUIRED.

Panelboard General Notes

1. PROVIDE BREAKERS FOR DEVICES WITH APPROPRIATE SHORT CIRCUIT RATINGS. CIRCUIT BREAKERS SHALL HAVE BOLT OR SCREW MOUNTING TO BUS.
2. CONTRACTOR SHALL VERIFY AVAILABLE FAULT DUTY FROM UTILITY, PRIOR TO PURCHASE. PROVIDE NEW PANELBOARD WITH AMPERE INTERRUPTING CAPACITY SUITABLE FOR AVAILABLE FAULT DUTY. PANELBOARDS SHALL BE FULLY RATED. NO SERIES-RATING IS ALLOWED.
3. PANEL CAPACITY: NEW PANELBOARD SHALL BE PROVIDED WITH 42 CIRCUITS.
4. LOCKABLE: PANEL BOARD SHALL BE LOCKABLE.
5. SCHEDULE: EACH PANEL SHALL CONTAIN A TYPEWRITTEN SCHEDULE. SCHEDULES SHALL REFLECT FINAL LOAD DESCRIPTION, ROOM NUMBERS, AND ROOM NAMES CONNECTED TO EACH CIRCUIT BREAKER. SCHEDULES SHALL BE PRINTED ON THE PANELBOARD DIRECTORY CARDS. THE SCHEDULE SHALL CONTAIN COMPLETE AND DETAILED INFORMATION FOR LOADS ON EACH CIRCUIT. ANY CHANGES, ADDITIONS, OR MODIFICATIONS, TO NEW PANELBOARDS SHALL REQUIRE A NEW TYPED DIRECTORY.
6. LABEL "SPARE" ALL CIRCUITS MADE SPARE AS A RESULT OF DEMOLITION WORK.
7. BUS MATERIAL: ALL PANELBOARD PHASE, NEUTRAL, AND EQUIPMENT GROUND BUS, SHALL BE TINNED COPPER.
8. UL COMPLIANCE: COMPLY WITH APPLICABLE UL SAFETY STANDARDS PERTAINING TO PANELBOARDS, ACCESSORIES, AND ENCLOSURES. PROVIDE UNITS WHICH HAVE BEEN UL LISTED AND LABELED. UL STANDARDS ARE AS FOLLOWS: "PANELBOARDS - UL67" AND "ENCLOSURES FOR ELECTRICAL EQUIPMENT - UL50".
9. NEC COMPLIANCE: COMPLY WITH THE NEC AS APPLICABLE TO THE INSTALLATION OF PANELBOARDS, CABINETS, AND CUTOUT BOXES.
10. NEMA COMPLIANCE: COMPLY WITH NEMA STDS. PUB. NO. 250 "ENCLOSURES FOR ELECTRICAL EQUIPMENT (1000-VOLT MAXIMUM)", PUB. NO. 1 "PANELBOARDS", AND PUB. NO. PB1.1 "INSTRUCTION FOR SAFE INSTALLATION, OPERATION, AND MAINTENANCE OF PANELBOARDS RATED 600 VOLTS AND LESS".
11. NECA COMPLIANCE: COMPLY WITH NECA'S "STANDARD OF INSTALLATION".
12. PANELBOARDS SHALL BE CONSTRUCTED FOR TOP OR BOTTOM FEEDER SERVICE, AS REQUIRED BY ACTUAL PROJECT CONDITIONS. CONTRACTOR TO COORDINATE WITH FIELD CONDITIONS.
13. CONTRACTOR SHALL PROVIDE ALL FIRE ALARM BRANCH CIRCUITS WITH RED LOCKABLE BRANCH CIRCUIT BREAKERS IN ACCORDANCE WITH NJ FIRE ALARM CODE SECTIONS 10.6.5.2.3 & 10.6.5.4. ASSOCIATED CIRCUITS SHALL BE IDENTIFIED AS "FIRE ALARM CIRCUIT" IN ACCORDANCE WITH NJ UCC ELECTRICAL SUBCODE 760.41(B). COORDINATE EXACT REQUIREMENTS WITH FIELD CONDITIONS, PRIOR TO PURCHASE.
14. PROVIDE GFI BRANCH CIRCUIT BREAKERS FOR EXISTING & NEW BRANCH CIRCUITS REQUIRED TO BE PROVIDED WITH GFI PROTECTION, IN ACCORDANCE WITH NJ UCC ELECTRICAL SUBCODE SECTION 210.8, IF GFI PROTECTION IS NOT PROVIDED INTEGRAL TO THE NECESSARY WIRING DEVICES.

Electrical Grounding Requirements

THE CONTRACTOR SHALL PROVIDE A GROUNDING CONDUCTOR FOR ALL BRANCH FEEDERS AND CIRCUITS IN ACCORDANCE WITH THE FOLLOWING CHART:

Rating or Setting of Automatic Overcurrent Device in Circuit Ahead of Equipment, Conduit, etc., Not Exceeding (Amperes)	Size (AWG or kcmil)		Rating or Setting of Automatic Overcurrent Device in Circuit Ahead of Equipment, Conduit, etc., Not Exceeding (Amperes)	Size (AWG or kcmil)		Rating or Setting of Automatic Overcurrent Device in Circuit Ahead of Equipment, Conduit, etc., Not Exceeding (Amperes)	Size (AWG or kcmil)	
	Copper	Aluminum or Copper-Clad Aluminum*		Copper	Aluminum or Copper-Clad Aluminum*		Copper	Aluminum or Copper-Clad Aluminum*
15	14	12	300	4	2	1600	4/0	350
20	12	10	400	3	1	2000	250	400
30	10	8	500	2	1/0	2500	350	600
40	10	8	600	1	2/0	3000	400	600
60	10	8	800	1/0	3/0	4000	500	800
100	8	6	1000	2/0	4/0	5000	700	1200
200	6	4	1200	3/0	250	6000	800	1200

Note: Where necessary to comply with NEC 250.4(A)(5) or (B)(4), the equipment grounding conductor shall be sized larger than given in this table.
Where ungrounded conductors are increased in size, equipment grounding conductors, where installed, shall be increased in size proportionately according to the circular mil area of the ungrounded conductors.
*See installation restrictions in NEC 250.120

NJ Certificate of Authorization

Engr. Nos.	24GA27937500
Arch. Nos.	21AC00012400
Date	11/3/26
Checked	EM
Drawn	AB

MICHAEL G. MIERKOWSKI, P.E.
License No. 24GE05063600
Title PROFESSIONAL ENGINEER

Revisions:
ISSUED FOR BID
11/03/26

LAN ASSOCIATES
Engineering, Planning, Architecture, Surveying Inc.
1018 Laurel Oak Road, Suite 11, Voorhees, NJ 08043 | t. 856-375-2701

State Project#: 07-1770-050-XX-XXXX

ELECTRICAL PANEL SCHEDULES I
HIGH SCHOOL LOCKER ROOM INTERIOR ALTERATIONS
GLOUCESTER CITY BOE
1300 MARKET STREET, GLOUCESTER CITY NJ, 08030

Job No. 2.20457.20
File No. 20457.20 E601

E6.02

PANELBOARD NAME: ER PNL H8

LOCATION:	STORAGE/ELEC - G8	**VOLTAGE:**	480	**kAIC RATING:**		42	**PANEL FEEDER**																
SUPPLY FROM:	EXISTING	**PHASE:**	3	**MAINS TYPE:**		MCB	C		G		R												
MOUNTING:	SURFACE	**WIRE:**	4	**MCB RATING (A):**		600	2 SETS																
ENCLOSURE:	NEMA 1	**BUS SIZE (A):**	600	**OCPD TYPE:**		STD	(4)350KCMIL		#1		3"												
CKT	**Load Name**	**C**	**G**	**R**	**Trip (A)**	**Poles**	**A1**	**A2**	**B1**	**B2**	**C1**	**C2**	**Poles**	**Trip (A)**	**C**	**G**	**R**	**Load Name**	**CKT**
1*							-	-											2*
3*	(E) RTU-21C	-	-	-	60	3			-	-			3	50	-	-	-	(E) RTU-19	4*
5*											-	-							6*
7*							-	-											8*
9*	(E) RTU-21B	-	-	-	60	3			-	-			3	20	-	-	-	EXISTING LOAD	10*
11*											-	-							12*
13*							-	-											14*
15*	(E) RTU-21A	-	-	-	60	3			-	-			3	80	-	-	-	(E) RTU-12	16*
17*											-	-							18*
19*							-	-											20*
21*	(E) BC-57,58,60	-	-	-	35	3			-	-			3	80	-	-	-	(E) RTU-13	22*
23*											-	-							24*
25*							-	-											26*
27*	(E) RTU-23	-	-	-	20	3			-	-			3	30	-	-	-	(E) RTU-22	28*
29*											-	-							30*
31	EXISTING SPACE	-	-	-	-	-	-	-											32*
33	EXISTING SPACE	-	-	-	-	-			-	-			3	20	-	-	-	(E) KITCHEN HOOD	34*
35	EXISTING SPACE	-	-	-	-	-					-	-							36*
37*							-	-					-	-	-	-	-	EXISTING SPACE	38
39*	(E) EF-19	-	-	-	20	3			-	-			-	-	-	-	-	EXISTING SPACE	40
41*											-	-	-	-	-	-	-	EXISTING SPACE	42
43**							-	-											44**
45**	(E) XFMR T3 (SUB-FEED)	-	-	-	125	3			-	-			3	125	-	-	-	(E) XFMR T3 (SUB-FEED)	46**
47**											-	-							48**

ALL CONDUCTORS SHALL BE COPPER. SIZE INDICATED BY: "C" - CURRENT-CARRYING CONDUCTORS, "G" - GROUND, "R" - RACEWAY

VA PER Φ	**0**	**0**	**0**
TOTAL PANEL VA		**0**	
AMPS PER Φ	**#N/A**	**#N/A**	**#N/A**
TOTAL PANEL AMP		**0**	

RACEWAY REQUIREMENTS: WHERE A RACEWAY SIZE IS SPECIFIED, IT IS TO INDICATE THE MINIMUM SIZE AND DOES NOT PRECLUDE THE USE OF MC CABLE. REFER TO THE "APPLICATIONS OF RACEWAYS" SCHEDULE ON THE DRAWINGS FOR ALLOWABLE WIRING METHODS.

PANEL NOTES:
- ASTERICK ("*") SHALL DESIGNATE: BRANCH CKT WIRING & CONDUIT TO BE MODIFIED & EXTENDED.
- DOUBLE ASTERICK ("**") SHALL DESIGNATE: FEEDER CKT WIRING & CONDUIT TO BE REPLACED.
- NOTE: EXISTING LOAD NOT SHOWN; NO NEW LOAD BEING ADDED TO PNL H8.

PANELBOARD NAME: (E) PNL Z

LOCATION:	MECHANICAL RM.	**VOLTAGE:**	208	**kAIC RATING:**		EXISTING	**PANEL FEEDER**																
SUPPLY FROM:	EXISTING	**PHASE:**	3	**MAINS TYPE:**		LUG	C		G		R												
MOUNTING:	SURFACE	**WIRE:**	4	**LUG RATING (A):**		250	1 SET																
ENCLOSURE:	NEMA 1	**BUS SIZE (A):**	250	**OCPD TYPE:**		STD	ETR		ETR		ETR												
CKT	**Load Name**	**C**	**G**	**R**	**Trip (A)**	**Poles**	**A1**	**A2**	**B1**	**B2**	**C1**	**C2**	**Poles**	**Trip (A)**	**C**	**G**	**R**	**Load Name**	**CKT**
1	EXISTING LOAD	-	-	-	20	1	360	580					1	20	(2) 12 ga.	12 ga.	3/4"	(1) WORKSTATION + CONV	2*
3	EXISTING LOAD	-	-	-	20	1			250	800			1	20	(2) 12 ga.	12 ga.	3/4"	(2) WORKSTATIONS	4*
5*	WET RM. C1-B DED OUTLET	(2) 10 ga.	10 ga.	3/4"	20	1					1,920	800	1	20	(2) 12 ga.	12 ga.	3/4"	(2) WORKSTATIONS	6*
7*	WET RM. C1-B DED OUTLET	(2) 10 ga.	10 ga.	3/4"	20	1	1,920	200					1	20	-	-	-	EXISTING LOAD	8
9*	WET RM. C1-B DED OUTLET	(2) 10 ga.	10 ga.	3/4"	20	1			1,920	200			1	20	-	-	-	EXISTING LOAD	10
11*	TRAINER'S RM. C-1 CONV	(2) 8 ga.	8 ga.	3/4"	20	1					540	1,000	1	20	-	-	-	EXISTING LOAD	12
13*	TRAINER'S C-1 & WET C-1B CONV	(2) 10 ga.	10 ga.	3/4"	20	1	540	360					1	20	-	-	-	EXISTING LOAD	14
15	EXISTING LOAD	-	-	-	20	1			360	200			1	20	-	-	-	EXISTING LOAD	16
17											1,920	200	1	20	-	-	-	EXISTING LOAD	18
19	EXISTING LOAD	-	-	-	20	3	1,920	200					1	20	-	-	-	EXISTING LOAD	20
21									1,920	200			1	20	-	-	-	EXISTING LOAD	22
23	EXISTING LOAD	-	-	-	20	1					200	360	1	20	-	-	-	EXISTING LOAD	24
25	EXISTING LOAD	-	-	-	20	1	200	500					1	20	-	-	-	EXISTING LOAD	26
27	EXISTING LOAD	-	-	-	20	1			200	500			1	20	-	-	-	EXISTING LOAD	28
29	EXISTING LOAD	-	-	-	20	1					250	360	2	20	-	-	-	EXISTING LOAD	30
31	EXISTING LOAD	-	-	-	20	1	250	360											32
33	EXISTING LOAD	-	-	-	20	1			250	500			1	20	-	-	-	EXISTING LOAD	34
35	EXISTING LOAD	-	-	-	20	2					360	1,500	1	20	(2) 10 ga.	10 ga.	3/4"	TRAINER'S RM. C-1 TREADMILL	36*
37							360	1,500					1	20	(2) 10 ga.	10 ga.	3/4"	TRAINER'S RM. C-1 TREADMILL	38*
39*	EXISTING LOAD	-	-	-	20	2			360	360			2	20	-	-	-	EXISTING LOAD	40
41*											360	360							42

ALL CONDUCTORS SHALL BE COPPER. SIZE INDICATED BY: "C" - CURRENT-CARRYING CONDUCTORS, "G" - GROUND, "R" - RACEWAY

VA PER Φ	**9,250**	**8,020**	**10,130**
TOTAL PANEL VA		**27,400**	
AMPS PER Φ	**77**	**67**	**84**
TOTAL PANEL AMP		**84**	

RACEWAY REQUIREMENTS: WHERE A RACEWAY SIZE IS SPECIFIED, IT IS TO INDICATE THE MINIMUM SIZE AND DOES NOT PRECLUDE THE USE OF MC CABLE. REFER TO THE "APPLICATIONS OF RACEWAYS" SCHEDULE ON THE DRAWINGS FOR ALLOWABLE WIRING METHODS.

PANEL NOTES:
- ASTERICK ("*") SHALL DESIGNATE: PROVIDE NEW BRANCH CKT BREAKER FOR INDICATED CIRCUIT.
- NEW CKTS SHOWN FOR DESIGN INTENT ONLY, VERIFY AVAILABLE CKT #'S IN FIELD.

APPLICATION OF RACEWAYS

RACEWAY TYPE	APPLICATION
RIGID STEEL GALVANIZED CONDUIT (RMC OR GRC; NEC 344)	WHERE EXPOSED TO MECHANICAL INJURY, WHERE SPECIFICALLY REQUIRED, INDOORS WHERE EXPOSED TO MOISTURE, WHERE REQUIRED BY CODES AND FOR ALL CIRCUITS IN EXCESS OF 600 VOLTS.
INTERMEDIATE METAL CONDUIT (IMC; NEC 342)	WHERE EXPOSED TO MECHANICAL INJURY, WHERE SPECIFICALLY REQUIRED, INDOORS WHERE EXPOSED TO MOISTURE, WHERE REQUIRED BY CODES AND FOR ALL CIRCUITS IN EXCESS OF 600 VOLTS.
ELECTROMAGNETIC TUBING (EMT; NEC 358)	USE IN EVERY INSTANCE EXCEPT WHERE ANOTHER MATERIAL IS SPECIFIED.
FLEXIBLE METAL CLAD CABLES (FMC; NEC 348)	LIGHTING AND RECEPTACLE BRANCH CIRCUITS CONCEALED IN HOLLOW SPACES OF BUILDING. MAY NOT BE USED IN CORRIDORS, PLACES OF ASSEMBLY, OR WHERE PROHIBITED BY CODE.
METAL-CLAD CABLES (MC CABLE; NEC 330)	USE IN DRY AREAS FOR CONNECTIONS TO LIGHTING FIXTURES IN HUNG CEILINGS, CONNECTIONS TO EQUIPMENT INSTALLED REMOVABLE PANELS OF HUNG CEILINGS. AT USE IN ALL TRANSFORMER OR EQUIPMENT RACEWAY CONNECTIONS WHERE SOUND AND VIBRATION ISOLATION IS REQUIRED.
LIQUID-TIGHT FLEXIBLE METALLIC OR NON-METALLIC CONDUIT (LFMC OR LFNC; NEC 350 OR 356)	USE IN AREAS SUBJECT TO MOISTURE WHERE FLEXIBLE STEEL IS UNACCEPTABLE, AT CONNECTIONS TO ALL MOTORS, AND ALL RAISED FLOOR AREAS .
RIGID POLYVINYL CHLORIDE CONDUIT (PVC; NEC 352)	1. SCHEDULE 40 - WHERE RACEWAYS ARE IN SLAB IN BELOW GRADE LEVELS, OR FOR RACEWAY DUCT BANKS. 2. SCHEDULE 80 - FOR UNDERGROUND RACEWAYS OUTSIDE OF BUILDING WHICH ARE NOT ENCASED IN CONCRETE.ALSO FOR SECONDARY CONDUCTORS OF CATHODE LIGHTING SYSTEMS.
METAL WIREWAYS AND AUX. GUTTERS (NEC SECTIONS 376 & 366)	WHERE INDICATED ON THE DRAWINGS AND AS OTHERWISE SPECIFICALLY REQUIRED.

Panelboard General Notes

1. PROVIDE BREAKERS FOR DEVICES WITH APPROPRIATE SHORT CIRCUIT RATINGS. CIRCUIT BREAKERS SHALL HAVE BOLT OR SCREW MOUNTING TO BUS.
2. CONTRACTOR SHALL VERIFY AVAILABLE FAULT DUTY FROM UTILITY, PRIOR TO PURCHASE. PROVIDE NEW PANELBOARD WITH AMPERE INTERRUPTING CAPACITY SUITABLE FOR AVAILABLE FAULT DUTY. PANELBOARDS SHALL BE FULLY RATED. NO SERIES-RATING IS ALLOWED.
3. PANEL CAPACITY: NEW PANELBOARD SHALL BE PROVIDED WITH 42 CIRCUITS.
4. LOCKABLE: PANEL BOARD SHALL BE LOCKABLE.
5. SCHEDULE: EACH PANEL SHALL CONTAIN A TYPEWRITTEN SCHEDULE. SCHEDULES SHALL REFLECT FINAL LOAD DESCRIPTION, ROOM NUMBERS, AND ROOM NAMES CONNECTED TO EACH CIRCUIT BREAKER. SCHEDULES SHALL BE PRINTED ON THE PANELBOARD DIRECTORY CARDS. THE SCHEDULE SHALL CONTAIN COMPLETE AND DETAILED INFORMATION FOR LOADS ON EACH CIRCUIT. ANY CHANGES, ADDITIONS, OR MODIFICATIONS, TO NEW PANELBOARDS SHALL REQUIRE A NEW TYPED DIRECTORY.
6. LABEL "SPARE" ALL CIRCUITS MADE SPARE AS A RESULT OF DEMOLITION WORK.
7. BUS MATERIAL: ALL PANELBOARD PHASE, NEUTRAL, AND EQUIPMENT GROUND BUS, SHALL BE TINNED COPPER.
8. UL COMPLIANCE: COMPLY WITH APPLICABLE UL SAFETY STANDARDS PERTAINING TO PANELBOARDS, ACCESSORIES, AND ENCLOSURES. PROVIDE UNITS WHICH HAVE BEEN UL LISTED AND LABELED. UL STANDARDS ARE AS FOLLOWS: "PANELBOARDS - UL67" AND "ENCLOSURES FOR ELECTRICAL EQUIPMENT - UL50".
9. NEC COMPLIANCE: COMPLY WITH THE NEC AS APPLICABLE TO THE INSTALLATION OF PANELBOARDS, CABINETS, AND CUTOUT BOXES.
10. NEMA COMPLIANCE: COMPLY WITH NEMA STDS. PUB. NO. 250 "ENCLOSURES FOR ELECTRICAL EQUIPMENT (1000-VOLT MAXIMUM)", PUB. NO. 1 "PANELBOARDS", AND PUB. NO. PB1.1 "INSTRUCTION FOR SAFE INSTALLATION, OPERATION, AND MAINTENANCE OF PANELBOARDS RATED 600 VOLTS AND LESS".
11. NECA COMPLIANCE: COMPLY WITH NECA'S "STANDARD OF INSTALLATION".
12. PANELBOARDS SHALL BE CONSTRUCTED FOR TOP OR BOTTOM FEEDER SERVICE, AS REQUIRED BY ACTUAL PROJECT CONDITIONS. CONTRACTOR TO COORDINATE WITH FIELD CONDITIONS.
13. CONTRACTOR SHALL PROVIDE ALL FIRE ALARM BRANCH CIRCUITS WITH RED LOCKABLE BRANCH CIRCUIT BREAKERS IN ACCORDANCE WITH NJ FIRE ALARM CODE SECTIONS 10.6.5.2.3 & 10.6.5.4. ASSOCIATED CIRCUITS SHALL BE IDENTIFIED AS "FIRE ALARM CIRCUIT" IN ACCORDANCE WITH NJ UCC ELECTRICAL SUBCODE 760.41(B). COORDINATE EXACT REQUIREMENTS WITH FIELD CONDITIONS, PRIOR TO PURCHASE.
14. PROVIDE GFI BRANCH CIRCUIT BREAKERS FOR EXISTING & NEW BRANCH CIRCUITS REQUIRED TO BE PROVIDED WITH GFI PROTECTION, IN ACCORDANCE WITH NJ UCC ELECTRICAL SUBCODE SECTION 210.8, IF GFI PROTECTION IS NOT PROVIDED INTEGRAL TO THE NECESSARY WIRING DEVICES.

Electrical Grounding Requirements

THE CONTRACTOR SHALL PROVIDE A GROUNDING CONDUCTOR FOR ALL BRANCH FEEDERS AND CIRCUITS IN ACCORDANCE WITH THE FOLLOWING CHART:

Rating or Setting of Automatic Overcurrent Device in Circuit Ahead of Equipment, Conduit, etc., Not Exceeding (Amperes)	Size (AWG or kcmil) Copper	Size (AWG or kcmil) Aluminum or Copper-Clad Aluminum*	Rating or Setting of Automatic Overcurrent Device in Circuit Ahead of Equipment, Conduit, etc., Not Exceeding (Amperes)	Size (AWG or kcmil) Copper	Size (AWG or kcmil) Aluminum or Copper-Clad Aluminum*	Rating or Setting of Automatic Overcurrent Device in Circuit Ahead of Equipment, Conduit, etc., Not Exceeding (Amperes)	Size (AWG or kcmil) Copper	Size (AWG or kcmil) Aluminum or Copper-Clad Aluminum*
15	14	12	300	4	2	1600	4/0	350
20	12	10	400	3	1	2000	250	400
30	10	8	500	2	1/0	2500	350	600
40	10	8	600	1	2/0	3000	400	600
60	10	8	800	1/0	3/0	4000	500	800
100	8	6	1000	2/0	4/0	5000	700	1200
200	6	4	1200	3/0	250	6000	800	1200

Note: Where necessary to comply with NEC 250.4(A)(5) or (B)(4), the equipment grounding conductor shall be sized larger than given in this table.

Where ungrounded conductors are increased in size, equipment grounding conductors, where installed, shall be increased in size proportionately according to the circular mil area of the ungrounded conductors.

*See installation restrictions in NEC 250.120

NJ Certificate of Authorization

Engr. Nos.	24GA27937500
Arch. Nos.	21AC00012400
Date	11/3/26
Checked	EM
Drawn	AB

MICHAEL G. MIERKOWSKI, P.E. — License No. 24GE05063600 — Title: PROFESSIONAL ENGINEER

Revisions:

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11/03/26

State Project#: 07-1770-050-XX-XXXX

LAN ASSOCIATES — Engineering, Planning, Architecture, Surveying Inc.
1018 Laurel Oak Road, Suite 11, Voorhees, NJ 08043 | t. 856-375-2701

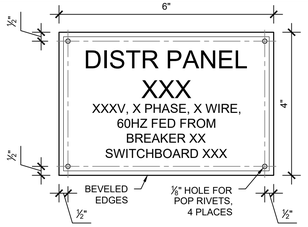
ELECTRICAL PANEL SCHEDULES II

HIGH SCHOOL LOCKER ROOM INTERIOR ALTERATIONS
GLOUCESTER CITY BOE
1300 MARKET STREET, GLOUCESTER CITY, NJ, 08030

Job No. 2.20457.20
File No. 20457.20 E601

E6.03

Nameplate/Labeling Requirements



REQUIRED DATA

FIRST LINE: EQUIPMENT DESIGNATION
SECOND LINE: VOLTAGE, PHASE, No. OF WIRE, FREQUENCY
THIRD AND FOURTH LINES: POWER SOURCE AND BREAKER
"XXX": BASED ON FINAL SHOP DRAWING AND INSTALLED EQUIPMENT CIRCUIT NUMBER
TRANSFORMERS: INCLUDE LINE INDICATING "FEEDS TO"

LETTER SIZE & SPACING

TOP ROW: 1" LETTERS
OTHER ROWS: ½" LETTERS
BETWEEN ROWS: ¼" BETWEEN 1st & 2nd, ½" FOR OTHER ROWS

NOTES

LETTERING SHALL BE WHITE ON A BLACK BACKGROUND
FOR TRANSFORMERS, INCLUDE PRI & SEC VOLTAGES, PRI AND SEC CONNECTIONS (E.G., DELTA, WYE, ETC.) AND EQUIPMENT SERVING.

GENERAL LABELING REQ.:

Engraved Plastic Nameplates and Signs: Engraving stock, melamine plastic laminate, minimum 1/16" thick for signs up to 20 sq. in. and ⅛" thick for larger sizes. Engraved legend with white letters on black face for normal power, white letters on red face for emergency power. Punched or drilled for mechanical fasteners. Text at ½" high lettering.

Nameplates shall adequately describe the function of the particular equipment involved. Where nameplates are detailed on the drawings, inscription and size of letters shall be as shown and shop drawing submitted for approval. Nameplates for panelboards and switchboards shall include the panel designation, voltage, phase and wire. The next item shall be panel name. In addition, describe where the panel is fed from. For example,

PANEL 1LA, 120/208V, 3PH, 4W
PP1 PANEL
FED FROM MDP

The service disconnect shall be labeled as the "Service Disconnect," per NEC 230.70(B).

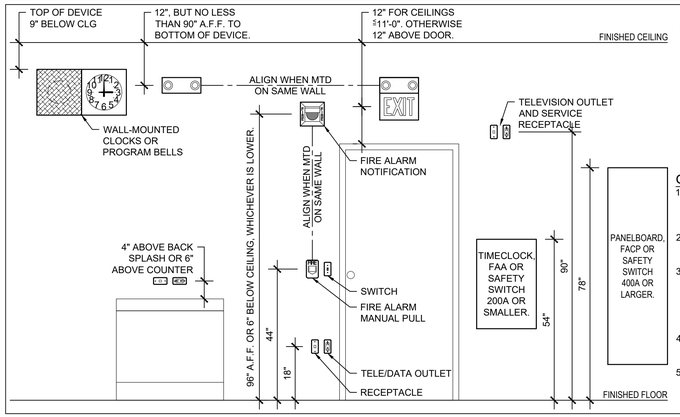
Per NEC 110.24(A) the maximum available fault current and the date the fault current calculation was performed shall be legibly marked on the service equipment. Example: Maximum available fault current: 34,000 Symmetrical RMS Amperes Date 12/1/11.

Per NEC 110.16, "Electrical equipment, such as switchboards, panel boards, industrial control panels, meter socket enclosures, transfer switches and motor control centers in other than dwelling occupancies, which are likely to require examination, adjustment, servicing, or maintenance while energized, shall be field marked to warn qualified persons of potential electric arc flash hazards. The marking shall be located so as to be clearly visible to qualified persons before examination, adjustment, servicing, or maintenance of the equipment." The NEC labeling requirements apply to any electrical equipment installed or modified after 2002. Warning label shall comply with ANSI Z535.4, which specifies colors and signal words to be used.

Per NEC 408.4(A), every circuit and circuit identification shall be legibly identified as to its clear, evident, and specific purpose of use.

Per NEC 700.7(B) and NEC 701.7, furnish and install warning label that warns of a shock hazard if the grounding electrode conductor or bonding jumper connection in this type of equipment is removed while alternate energy sources are energized.

Device Mounting Heights

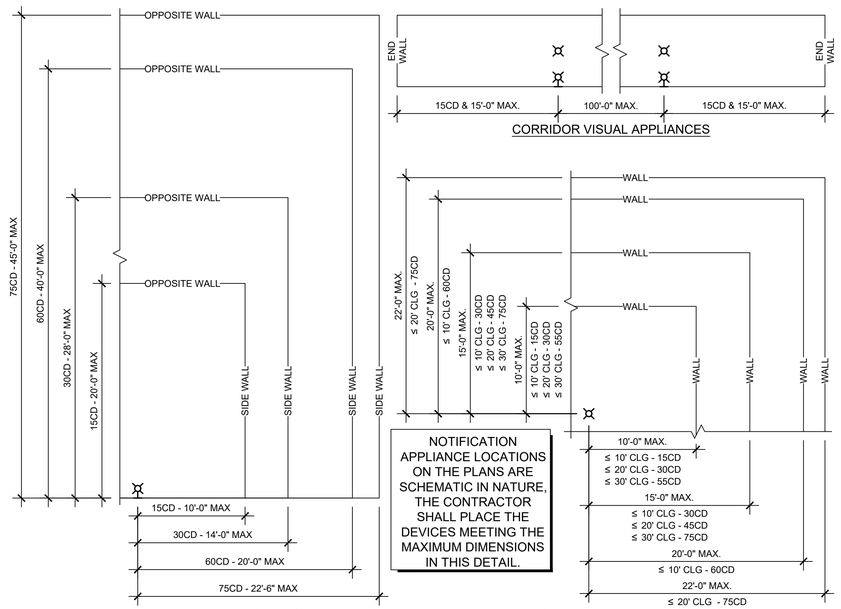


8'-6" PENDANT-HUNG INDUSTRIAL AND STRIP LIGHTING FIXTURES
4'-6" WALL-MOUNTED TELEPHONES AND PAY STATIONS (3'-6" AT HANDICAP LOCATIONS)
4'-0" WALL-MOUNTED WIREMOLD
2'-0" ELECTRICAL RECEPTACLES WITHIN MECHANICAL SPACES, ELECTRICAL AND ELEVATOR ROOMS
00" FINISHED FLOOR

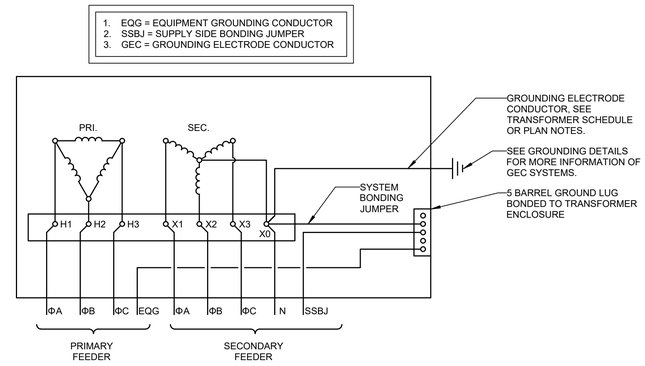
GENERAL NOTES:

1. Mounting heights to center of outlets unless otherwise noted. In masonry construction the mounting heights shall be used for reference to nearest block or brick coursing.
2. The mounting heights shall be adhered to unless specifically noted or detailed otherwise on the drawings or specifications.
3. A "CTR" designation beside a device indicates device mounted above counter or casework. Refer to architectural and casework details for actual elevation. Receptacles above counters shall be horizontally mounted 6" above counter or 4" above backsplash. Coordinate exact location in field.
4. A "+" symbol beside a device indicates the mounting height above finished floor.
5. All devices indicated to be installed at different mounting heights and located within one stud space from each other shall align vertically on the same side of the stud.

NOTIFICATION APPLIANCES NOTES

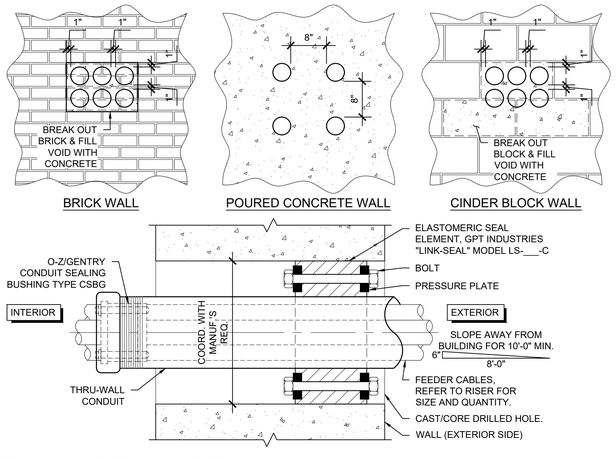


AS PER NJ FA CODE - 18.5.5.5 & 18.5.5.6



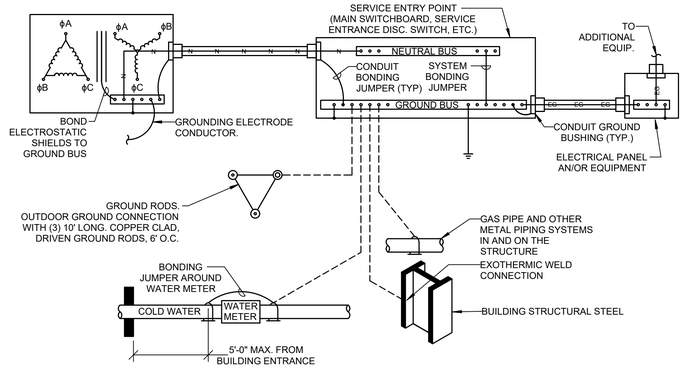
3 E7.01 Transformer Wiring Detail

N.T.S.



1 E7.01 Thru-Wall Conduit Seal

N.T.S.



2 E7.01 Electrical System Grounding Detail

N.T.S.

DETAIL LEGEND AND NOTES

DETAIL SYMBOL LEGEND:

- SYSTEM GROUNDING ELECTRODE CONDUCTOR
- EQ — EQUIPMENT GROUND CONDUCTOR
- N — SYSTEM NEUTRAL
- BUS BAR

DETAIL GENERAL NOTES:

1. INSTALL GROUNDING CONNECTIONS TO BUILDING STRUCTURE AND WATER PIPES AT LOCATIONS THAT ARE VISIBLE AND ACCESSIBLE FOR INSPECTION, MAINTENANCE, AND TESTING.
2. CONTRACTOR TO PROVIDE ALL GROUNDING ELECTRODES REQUIRED BY 250.50 AND GROUNDING ELECTRODE SYSTEM SHALL BE INSTALLED IN ACCORDANCE TO 250.50, 250.68, AND 250.64.
3. INSTALL GROUNDING ELECTRODE CONDUCTORS THAT ARE SIZED BASED ON NEC 250.66.
4. INSTALL AN INSULATED THROAT GROUNDING BUSHING ON EACH METALLIC SERVICE ENTRANCE & SUPPLY-SIDE FEEDER CONDUIT. BOND TO GROUND BUS USING A CONDUCTOR THAT IS SIZED BASED ON NEC TABLE 250.102 USING THE SERVICE (OR EQUIVALENT) PHASE CONDUCTOR SIZE.
5. INSTALL AN INSULATED THROAT GROUNDING BUSHING ON EACH METALLIC LOAD-SIDE FEEDER & BRANCH CIRCUIT CONDUIT. BOND TO GROUND BUS USING A CONDUCTOR THAT IS SIZED BASED ON NEC TABLE 250.122 USING THE ASSOCIATED FEEDER OR BRANCH CIRCUIT OVERCURRENT DEVICE SIZE.
6. BOND HOT AND COLD WATER PIPING SYSTEMS.

NJ Certificate of Authorization

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Arch. Nos.	21AC00012400
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Drawn	AB

MICHAEL G. MIERKOWSKI, P.E.
Title: PROFESSIONAL ENGINEER
License No.: 24GE05063600

Revisions:

ISSUED FOR BID
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LAN ASSOCIATES
Engineering, Planning, Architecture, Surveying Inc.
1018 Laurel Oak Road, Suite 11, Voorhees, NJ 08043 | t. 856-375-2701

ELECTRICAL DETAILS
HIGH SCHOOL LOCKER ROOM INTERIOR ALTERATIONS
GLOUCESTER CITY BOE
1300 MARKET STREET, GLOUCESTER CITY NJ, 08030

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E7.01

State Project#: 07-1770-050-XX-XXXX