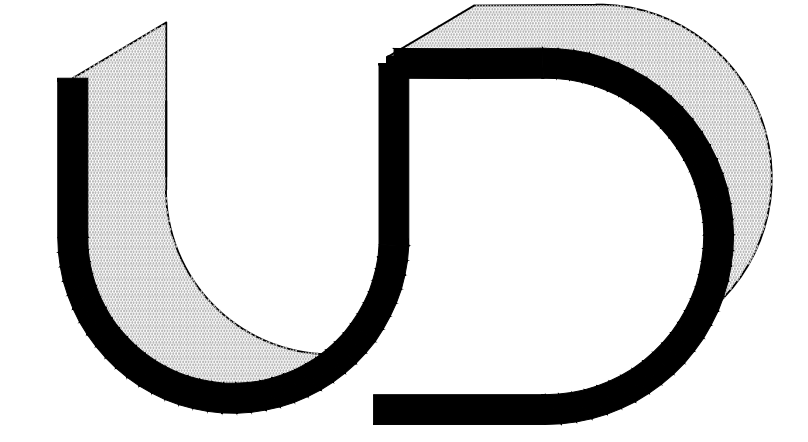




JOHN HAY High School



Approval:
X _____
MR. GARY SAUTTER Date: _____

DRAWING INDEX

T1.0	TITLE SHEET
PD1.0	PRODUCT DATA
<u>ARCHITECTURAL:</u>	
A1.0	SITE PLAN
A2.0	EXISTING / DEMOLITION PLAN
A3.0	PROPOSED FLOOR PLAN
A4.0	WEST BLEACHER 'A' PLAN AND DETAILS
A5.0	EAST BLEACHER 'B' PLAN AND DETAILS
A6.0	WOOD GYMNASIUM FLOORING PLAN, SECTIONS AND DETAILS
A7.0	TELESCOPING BLEACHER SPECIFICATIONS
8.0	TELESCOPING BLEACHER SPECIFICATIONS
9.0	WOOD GYMNASIUM FLOORING SPECIFICATIONS

GYMNASIUM FLOOR AND BLEACHER REPLACEMENT

INTERIOR ALTERATION

2075 STOKES BOULEVARD
CLEVELAND, OH 44106

PREPARED FOR:

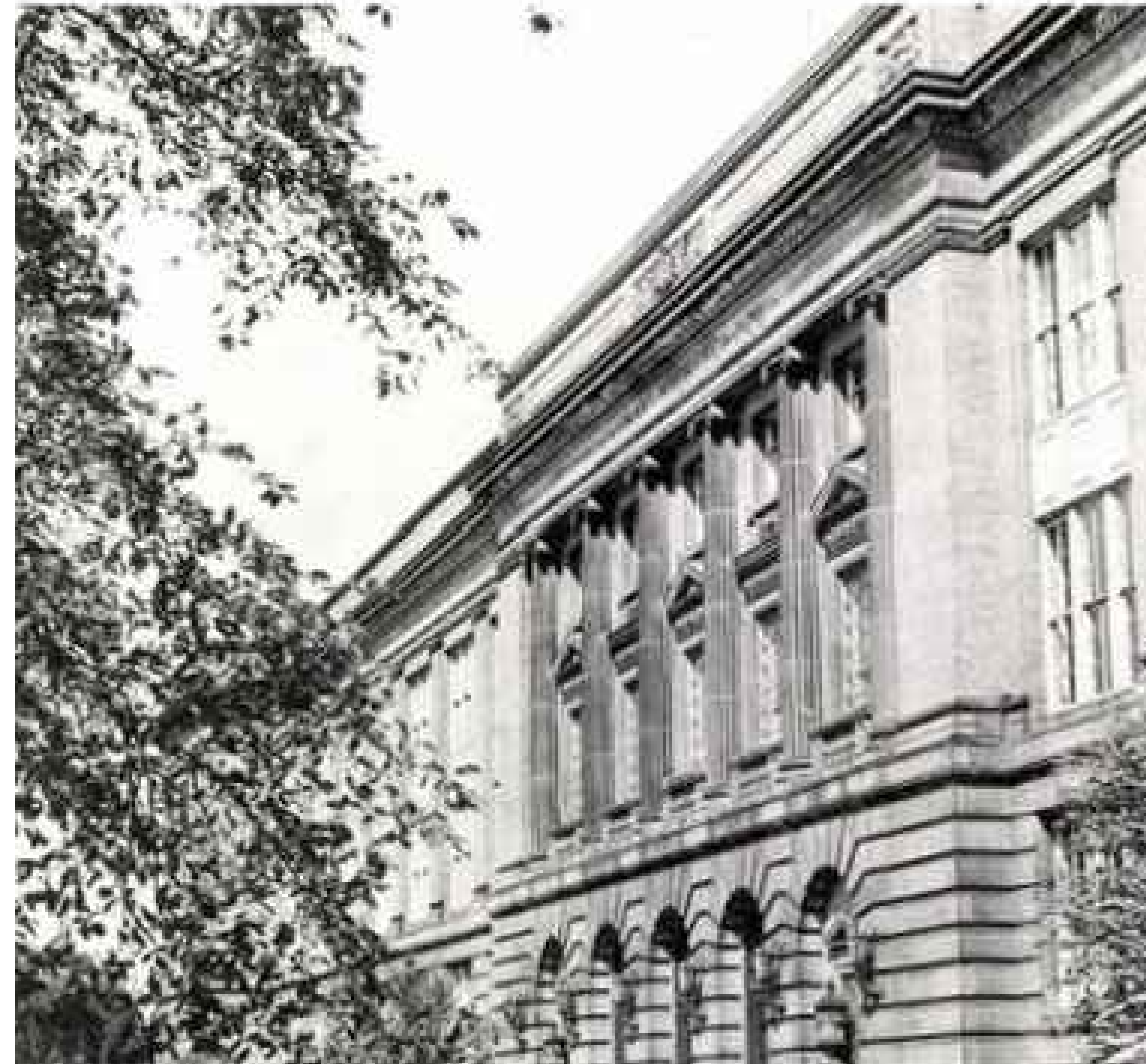


OPERATIONS DEPARTMENT
MR. GARY SAUTTER, DEPUTY CHIEF CAPITAL PROGRAMS
1390 EAST SIXTH STREET FIFTH FLOOR
CLEVELAND, OHIO 44114
OFFICE: 216.574.6379
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EMAIL: Gary.D.Sautter@cmsdnet.net

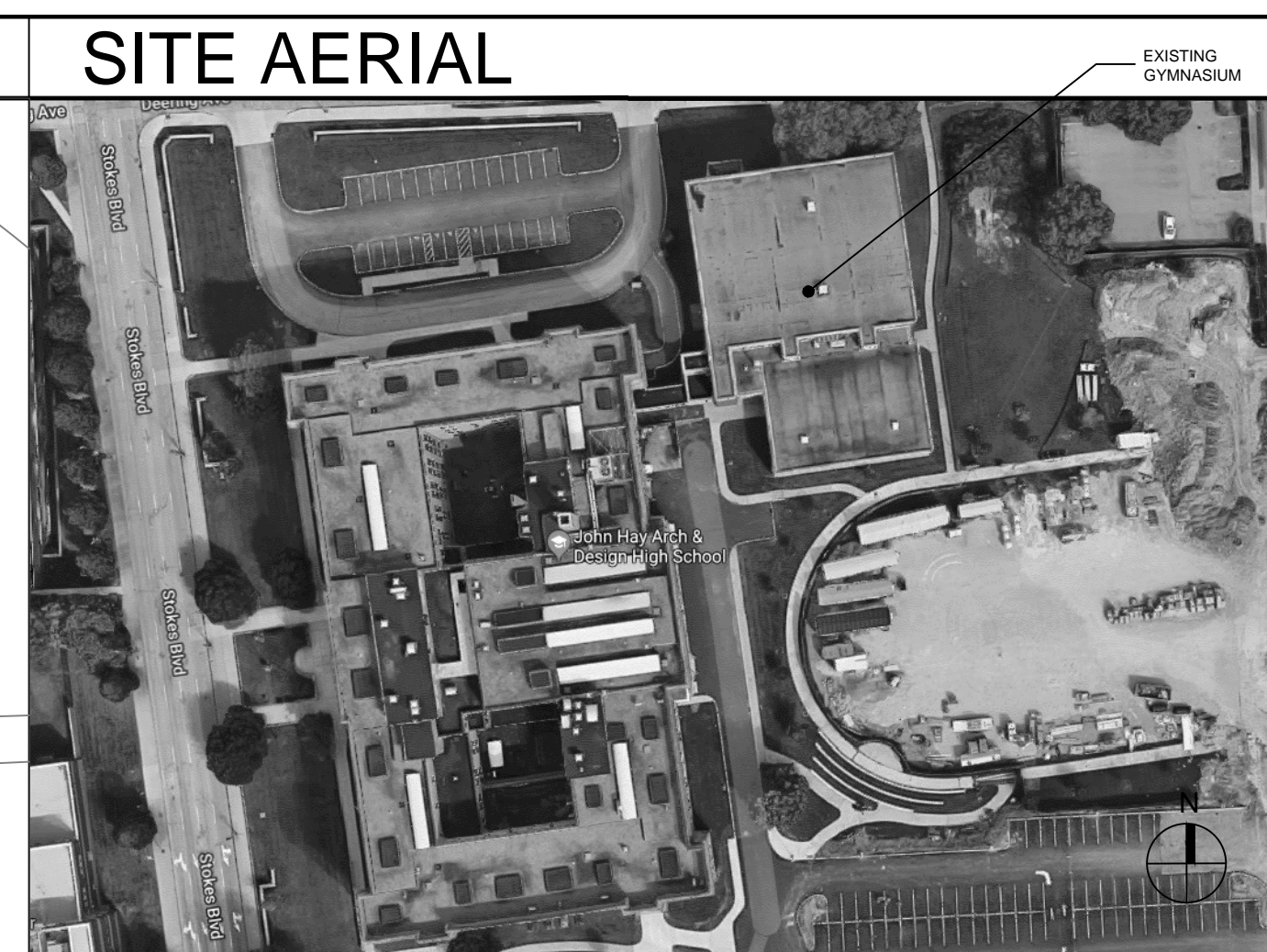
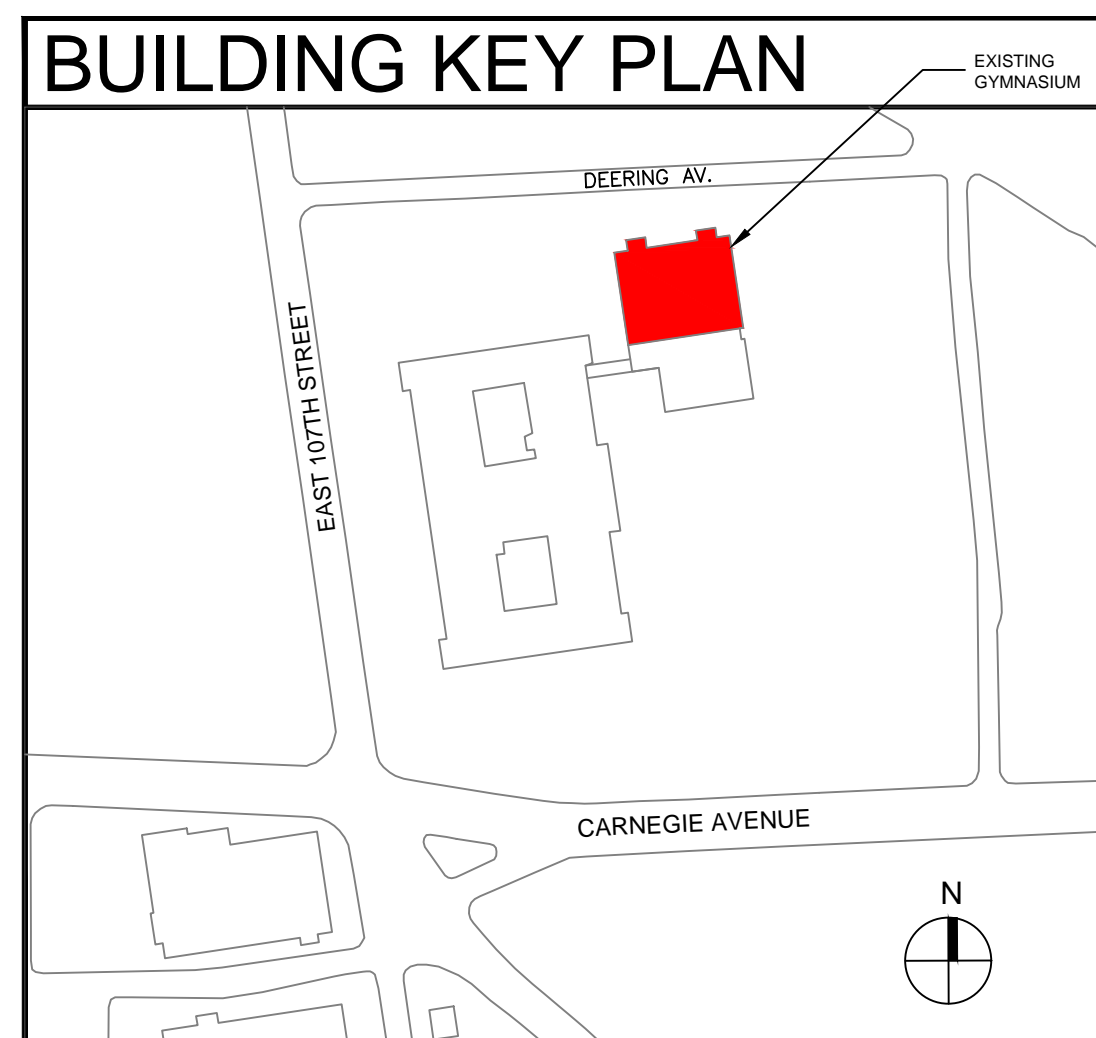
PREPARED BY:



UBIQUITOUS DESIGN, LTD.
ARCHITECTS
3443 LEE ROAD SHAKER HEIGHTS, OHIO 44120
P 216.752.4444 F 216.752.5011 ARCATEK@UDLTD.COM



HISTORIC PHOTOGRAPH



A. PROJECT LOCATION: JOHN HAY HIGH SCHOOL
2075 STOKES BOULEVARD
CLEVELAND, OHIO 44106

B. DESCRIPTION AND USER GROUP CLASSIFICATION OF BLDG: WE ARE SEEKING TO REMOVE AND REPLACE THE EXISTING THE DETERIORATED WOOD FLOOR AND BLEACHERS FOR THE BOARD OF EDUCATION

C. NATURE OF PROJECT: INTERIOR ALTERATION

D. USE GROUP: [E] EDUCATION

E. OCCUPANT LOAD: N / A

F. PARKING SPACES COUNT: N / A

G. CONSTRUCTION TYPE: III-B

H. WORK AREA LIMIT: FIRST LEVEL GYMNASIUM ONLY

I. TYPE OF MECHANICAL: EXIST. FORCED AIR FURNACES

CODE INFORMATION

REFERENCED CODES

IN ALL CASES, IF THERE IS A DISCREPENCY BETWEEN CODE REQUIREMENTS, BETWEEN ANY REFERENCED CODES, THE MORE STRINGENT CODE ALWAYS APPLIES.

2017 OHIO BUILDING CODE (OBC)

2017 OHIO MECHANICAL CODE (OMC)

2017 OHIO PLUMBING CODE (OPC)

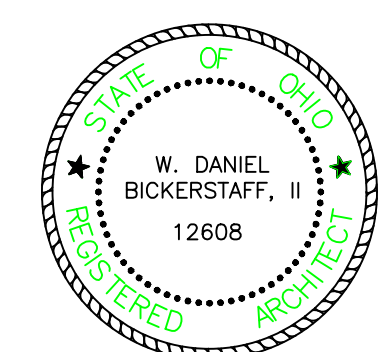
NFPA NATIONAL ELECTRICAL CODE 2017

LIFE SAFETY CODE, NFPA 101- 2017

2017 NFPA 13 SPRINKLER CODE

2017 DEPT. OF JUSTICE ADA STANDARDS FOR ACCESSIBLE DESIGN

2009 ICC/ANSI A117.1



SYMBOL LEGEND

	EARTH		SECTION
	POROUS FILL		ELEVATION
	POURED CONCRETE		MATERIAL NOTE
	CONCRETE BLOCK		DOOR NUMBER
	BRICK		ROOM NUMBER
	STEEL		WALL TYPES
	ROUGH WOOD		REVISION NUMBER
	FINISHED WOOD		EXISTING DOORS
	PLYWOOD		NEW DOORS
	RIGID INSULATION		ENLARGED PLAN
	BATT INSULATION		VERTICAL ELEVATION
	GYPSUM BOARD		

ABBREVIATIONS

A/C	AIR CONDITIONING	FR	FIRE RESISTIVE	PL	PLASTIC LAMINATE
ACT	ACOUSTIC(AL)	FRP	FIBER REINFORCED PANEL	PLBG	PLUMBING
ADD	ADDENDUM	FS	FLOOR SINK	PT	PAINTED(ED)
ADJ	ADJACENT	FT	FOOT, FEET	PSF	POUNDS PER SQUARE FOOT
AFF	ABOVE FINISHED FLOOR	FUT	FUTURE	PSI	POUNDS PER SQUARE INCH
ALUM	ALUMINUM	GA	GAUGE	PVC	POLYVINYL CHLORIDE
ALT	ALTERNATE, ALTERNATIVE	GALV	GALVANIZED	PWD	PLYWOOD
APPROV	APPROVED	GB	GRAB BAR	QTY	QUANTITY
ARCH	ARCHITECT(URAL)	GC	GENERAL CONTRACTOR	RAD	RADIUS
AUTO	AUTOMATIC	GR	GRILLE	RE	REFERENCE, REFER TO
BD	BOARD	GWB	GYPSUM WALL BOARD	REINF	REINFORCEMENT
BET	BETWEEN	GYP	GYPSUM	REQ	REQUIRE(ED), (MENT)
BLDG	BUILDING	H	HIGH	RM	ROOM
BOT	BOTTOM	HDCP	HANDICAPPED	SAC	SUSPENDED ACOUSTICAL CLG
CAB	CABINET	HDW	HARDWARE	SC	SOLID CORE
CB	CERAMIC BASE	HM	HOLLOW METAL	SCH	SCHEDULE
CFM	CUBIC FEET PER MINUTE	HOR	HORIZONTAL	SEC	SECTION
CG	CORNER GUARD	HR	HOUR	SH	SHELF, SHELVING
CLG	CEILING	HT	HEIGHT	SHT	SHEET
CLR	CLEAR(ANCE)	HVAC	HEATING/VENTILATING/AC	SIM	SIMILAR
CTR	CENTER	IN	INCH(ES)	SPEC	SPECIFICATION(S)
COL	COLUMN	INCCAND	INCANDESCENT	SQ	SQUARE
CONC	CONCRETE	INCL	INCLUDE(ED), (ING)	SS	STAINLESS STEEL
CONST	CONSTRUCTION	INFO	INFORMATION	STD	STANDARD
CONT	CONTINUE, CONTINUOUS	INS	INSULATION	STL	STEEL
CONTR	CONTRACTOR	INT	INTERIOR	STOR	STORAGE
COORD	COORDINATE, COORDINATOR	JT	JOINT	STRUCT	STRUCTURE, STRUCTURAL
COR	CORRIDOR	LAM	LAMINATE	SUSP	SUSPEND(ED)
CRI	CASH REGISTER INSTALLER	LAV	LAVATORY	SYM	SYMMETRIC(AL)
CT	CERAMIC TILE	LB	POUND(S)	SV	SHEET VINYL
DBL	DOUBLE	LIN	LINEAL	TEN	TENANT
DEM	DEMOLISH	LT	LIGHT	T&G	TONGUE AND GROOVE
DES	DESIGN(ER)	MAINT	MAINTENANCE	TEL	TELEPHONE
DIA	DIAMETER	MSY	MASONRY	TEMP	TEMPERATURE
DIM	DIMENSION	MAX	MAXIMUM	THK	THICK(NESS)
DN	DOWN	MC	MILLWORK CONTRACTOR	THRU	THROUGH
DR	DOOR	MECH	MECHANICAL	TYP	TYPICAL
DTL	DETAIL	MFG	MANUFACTURER	UL	UNDERWRITERS LABORATORY
DWG	DRAWING	MTL	METAL	UNFIN	UNFINISHED
EA	EACH	MIN	MINIMUM	VAR	VARIABLE, VARIES
EC	ELECTRICAL CONTRACTOR	MIR	MIRROR	VERT	VERTICAL
EL	ELEVATION	MISC	MISCELLANEOUS	VIF	VERIFY IN FIELD
ELECT	ELECTRIC, ELECTRICAL	MR	MOISTURE RESISTANT	VIN	VINYL
ENT	ENTRANCE	MNT	MOUNT(ED)	W	WIDE
EQ	EQUAL	NO	NUMBER	WITH	WITH
EQUIP	EQUIPMENT	NOM	NOMINAL	WITHOUT	WITHOUT
EW	ELECTRIC WATER HEATER	NTS	NOT TO SCALE	WC	WATER CLOSET
EXH	EXHAUST	OC	ON CENTER	WD	WOOD
EXIST	EXISTING	OH	OVERHEAD	WP(G)	WATERPROOF(ING)
EXT	EXTERNAL	OPP	OPPOSITE	WR	WATER RESISTANT
FD	FLOOR DRAIN	OWN	OWNER		
FEC	FIRE EXTINGUISHER CABINET	OZ	OUNCE(S)		
FEX	FIRE EXTINGUISHER				
FFE	FINISHED FLOOR ELEVATION				
FIN	FINISHED				
FLUOR	FLUORESCENT				
FLR	FLOOR				
FOS	FACE OF STUD				

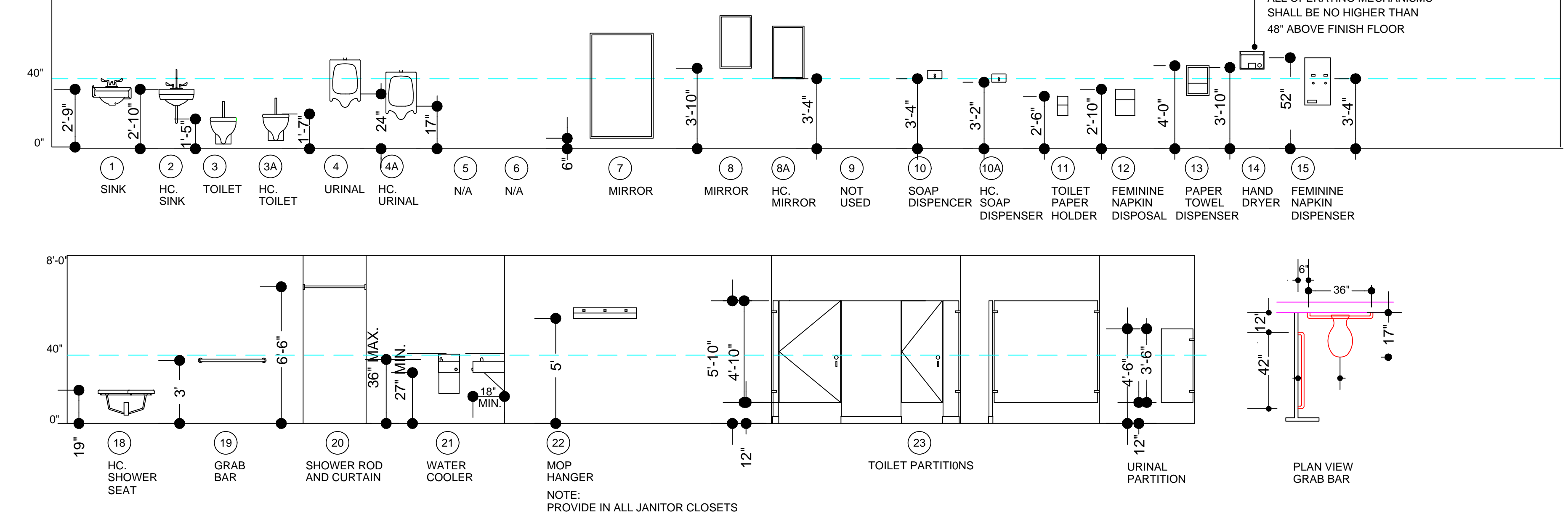
NOTE: NOT ALL ABBREVIATIONS AND SYMBOLS ARE USED IN DRAWINGS CONTAINED IN THIS SET

BUILDING AND CODE INFORMATION

(BASED ON 2017 OHIO BUILDING CODE)

CHAPTER 3-302.1.1	USE AND OCCUPANCY CLASSIFICATION INCIDENTAL USE AREAS STORAGE ROOMS > 100 S.F. - 1 HR. SEPARATION OR AUTO. FIRE EXTINGUISHER, SYS. WASTE/LINEN COLLECTION ROOMS > 100 S.F. - 1 HR. SEPARATION OR AUTO. FIRE EXTINGUISHER, SYS.	CHAPTER 20-	ALUMINUM N/A
308.3	USE GROUP E EDUCATION	CHAPTER 21-	MASONRY CONC. MASONRY UNITS TO CONFORM TO ASTM C90 MORTAR TO CONFORM TO ASTM C270
CHAPTER 4-	SPECIAL DETAILED REQUIREMENTS BASED ON USE AND OCCUPANCY N/A	CHAPTER 22-	STEEL N/A
CHAPTER 5-	GENERAL BUILDING HEIGHTS AND AREAS NUMBER OF STORIES THREE	CHAPTER 23-	WOOD FIRE-RETARDANT TREATED WOOD SHALL BEAR I.D. MARK OF AN APPROVED AGENCY
CHAPTER 6-602.2	TYPE OF CONSTRUCTION TYPE III-B	CHAPTER 24-	GLASS AND GLAZING COMPLY WITH SAFETY GLAZING REQUIREMENTS
TABLE 601	FIRE-RESISTANCE RATINGS STRUCTURAL FRAME 0-HR. (W/ SPRINKLERS) BEARING WALLS 0-HR. (W/ SPRINKLERS) FLOOR CONSTRUCTION 0-HR. (W/ SPRINKLERS) ROOF CONSTRUCTION 1-HR.	CHAPTER 25-	GYPSUM BOARD AND PLASTER COMPLY WITH REQUIREMENTS OF TABLE 2506.2
CHAPTER 7-709.0	FIRE-RESISTANCE-RATED CONSTRUCTION SMOKE BARRIERS TO HAVE 1-HR. FIRE-RESISTANCE RATING, 20-MIN. RATING FOR OPENING PROTECTIVE, OPP. SWINGING DOORS ACROSS CORRIDORS	CHAPTER 26-	PLASTIC PLASTIC MATERIALS INSTALLED AS INTERIOR FINISH SHALL COMPLY WITH CHAPTER 8
715.3	OPENING PROTECTIVE RATINGS PER TABLE 715.3	CHAPTER 27-	ELECTRICAL COMPONENTS, EQUIPMENT, AND SYSTEMS DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH NFPA 70
716.5	SMOKE DAMPER WHERE DUCTS PENETRATE SMOKE BARRIERS	CHAPTER 28-	MECHANICAL SYSTEMS MECHANICAL EQUIPMENT AND SYSTEMS TO BE IN ACCORDANCE WITH THE MECHANICAL CODE
CHAPTER 8-803.5	INTERIOR FINISHES INTERIOR WALL / CEILING FINISH REQUIREMENTS PER TABLE 803.5 805.1 CURTAINS, DRAPERIES, HANGINGS, OTHER DECORATIVE MATERIALS TO BE FLAME RESISTANT; COMBUSTIBLE DECORATIONS SHALL BE FLAME-RETARDANT	CHAPTER 29-	PLUMBING SYSTEMS MINIMUM FACILITIES PER TABLE 2902.1
CHAPTER 9-903.2.5	FIRE PROTECTION SYSTEMS AUTO. SPRINKLER SYSTEM REQUIRED (MODIFY EXISTING)	CHAPTER 30-	ELEVATORS AND CONVEYING SYSTEMS N/A
903.3	COMPLY WITH NFPA 13	CHAPTER 31-	SPECIAL CONSTRUCTION N/A
906.1	FIRE EXTINGUISHERS REQUIRED	CHAPTER 32-	ENCROACHMENTS INTO THE PUBLIC RIGHT-OF-WAY N/A
907.2.6	MANUAL FIRE ALARM SYSTEM (EXISTING)	CHAPTER 33-	SAFEGUARDS DURING CONSTRUCTION COMPLY WITH SAFEGUARDS, DEMOLITION, SANITARY, FIRE EXTINGUISHER, AND EXIT REQUIREMENTS
CHAPTER 10-1003.2	MEANS OF EGRESS 7' MINIMUM CEILING HEIGHT	CHAPTER 34-	EXISTING STRUCTURES N/A
1003.3.3	4' MAX. PROJECTION BETWEEN THE HEIGHTS OF 27' AND 80'		
1003.4	SLIP-RESISTANT FLOOR FINISH		
1004.1	NUMBER OF OCCUPANTS (PER TABLE 1004.1.2); SEE TITLE SHEET		
1006.1	MEANS OF EGRESS ILLUMINATION REQUIRED AT ALL TIMES BUILDING IS OCCUPIED		
1008.1.1	32" MIN. WIDTH FOR MEANS OF EGRESS DOORS. MAX. WIDTH 48"; DOORS USED FOR EXIT SIGNS REQUIRED. NO POINT IN CORR. > 100' FROM AN EXIT SIGN		
1013.2.2	HABITABLE ROOMS TO HAVE DIRECT ACCESS TO AN EXIT ACCESS TO AN EXIT ACCESS CORRIDOR		
1015.1	200' MAX. EXIT ACCESS TRAVEL DISTANCE		
1016.2	96" CORRIDOR WIDTH WHERE REQUIRED FOR BED MOVEMENT		
1016.3	20' MAX. DEAD-END CORRIDOR LENGTH		
1016.4	EXIT ACCESS CORRIDORS SHALL NOT SERVE AS AIR DUCTS/PLENUMS		
CHAPTER 11-	ACCESSIBILITY COMPLY WITH ACCESSIBILITY GUIDELINES		
CHAPTER 12-	INTERIOR ENVIRONMENT COMPLY WITH VENTILATION, TEMP. CONTROL, LIGHTING, DIMENSION REQUIREMENTS		
CHAPTER 13-	ENERGY EFFICIENCY COMPLY WITH "ASHRAE ENCY. 1" OR "INTERNATIONAL ENERGY CONSERVATION CODE"		
CHAPTER 14-	EXTERIOR WALLS N/A (EXISTING)		
CHAPTER 15-	ROOF ASSEMBLIES AND ROOFTOP STRUCTURES N/A (EXISTING)		
CHAPTER 16-1607.1	STRUCTURAL DESIGN LIVE LOAD- 100 PSF UNIFORM LOAD (CORRIDORS); 50 PSF UNIFORM LOAD (OFFICES)		
1607.7	HANDRAILS TO RESIST LOAD OF 50# PER FT., CONCENTRATED LOAD OF 200#; GRAB BARS AND SHOWER SEATS TO RESIST CONCENTRATED LOAD OF 250#		
CHAPTER 17-	STRUCTURAL TESTS AND SPECIAL INSPECTIONS N/A		
CHAPTER 18-	SOILS AND FOUNDATIONS N/A (EXISTING)		
CHAPTER 19-	CONCRETE N/A		

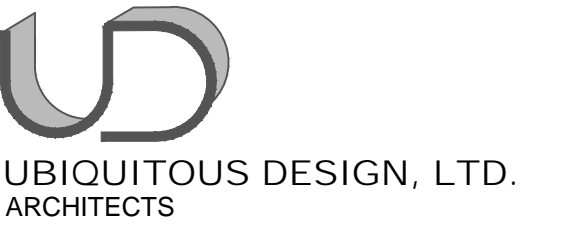
GUIDELINES FOR TOILET ROOMS



CLEVELAND METROPOLITAN SCHOOL DISTRICT

Project Team:

Architect



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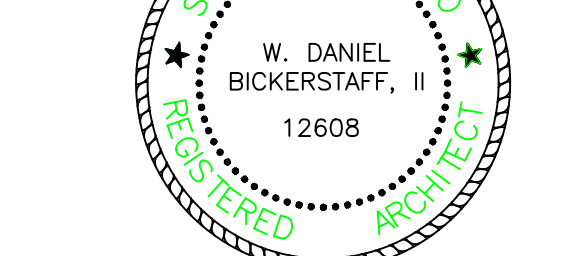
WWW.UBIQUITOUSDESIGN.COM

W. DANIEL BICKERSTAFF, II REGISTERED ARCHITECT

12608

W. DANIEL BICKERSTAFF, II LICENSE NO. 12608

EXPIRATION DATE: DECEMBER 31, 2019



W. Daniel Bickerstaff, II

License No. 12608

Expiration Date: December 31, 2019

PERMIT ISSUANCE WDB, II 03.06.2019

ISSUED BY DATE

JOHN HAY HIGH SCHOOL

Interior Alteration

Gymnasium Floor and Bleachers Replacement

2075 STOKES BOULEVARD
CLEVELAND, OH 44106

216.838.0404
Gary.Sautter@clevelandmetroschools.org

DATE: 03.06.2019

PROJECT NO: DB

PROJECT NAME: WDB, II

PROJECT DATA

Scale: PD1.0

Date: 03.06.2019



CLEVELAND METROPOLITAN SCHOOL DISTRICT

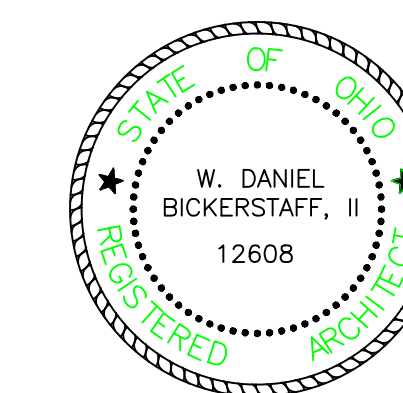
Project Team:

Architect



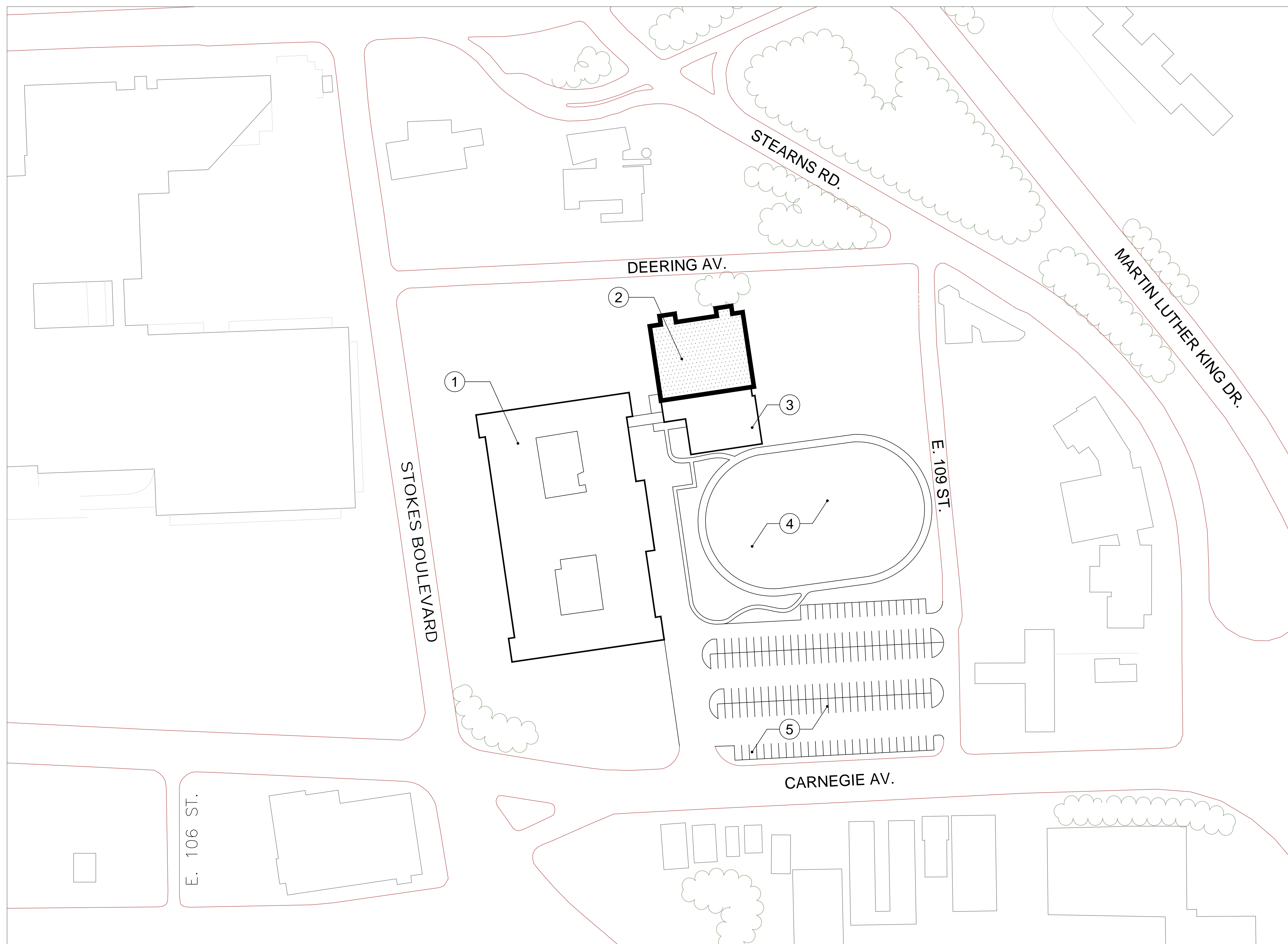
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3443 LEE ROAD SHAKER HEIGHTS, OHIO 44120 P. 919.752.4444 F. 216.752.2011 ARCHITECT@ULDTO.COM



W. Daniel Bickerstaff, II

W. Daniel Bickerstaff, II License No. 12608 Expiration Date: December 31, 2019



1 SITE PLAN SCALE: 1/64" = 1'-0"

GENERAL NOTES:

- 1. NEW SHALL BE NO EXTERIOR CONSTRUCTION AS PART TO THE SCOPE OF WORK

CODED NOTES:

- 1. EXIST. HIGH SCHOOL- Classroom Building
2. EXIST. GYMNASIUM
3. EXIST. NATATORIUM
4. EXIST. OUTDOOR TRACK AND FIELD
5. EXIST. PARKING AREA

Table with columns: PERMIT ISSUANCE, WDB, II, 03.06.2019, ISSUED, BY, DATE

JOHH HAY HIGH SCHOOL

Interior Alteration

Gymnasium Floor and Bleachers Replacement

2075 STOKES BOULEVARD CLEVELAND, OH 44106

216.838.0404 Gary.Sautter@clevelandmetroschools.org

Table with columns: SFAA Approver, Date, Designer, Designation

SITE PLAN

Table with columns: Scale, Sheet, Date, A1.0



CLEVELAND METROPOLITAN SCHOOL DISTRICT

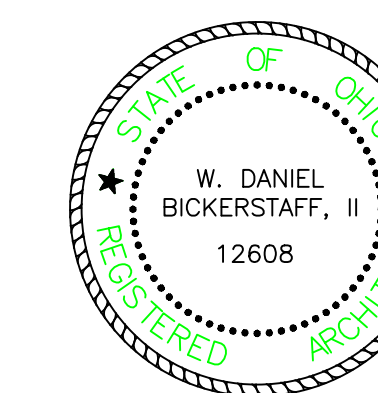
Project Team:

Architect



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W. Daniel Bickerstaff, II

W. Daniel Bickerstaff, II License No. 12608 Expiration Date: December 31, 2019

GENERAL NOTES:

1. UPON COMPLETE REMOVAL OF EXIST. WD. FLNG. ARCHITECT AND OWNER TO PERFORM DETAIL REVIEW AND INSPECTION OF EXIST. SUBFLOOR
2. ***PER THE DISCOVERY, VIA THE SURVEY PERFORMED BY GETCO, INC. OF ASBESTOS CONCENTRATIONS IN THE BLACK MASTIC IN THE GYMNASIUM FLOORING, IT IS REQUIRED THAT THE CONTRACTOR CARRY OUT APPROPRIATE ABATEMENT ACTIVITIES PRIOR TO CONDUCTING ACTIVITIES THAT WILL CAUSE A DISTURBANCE OF TEH MATERIAL.

DEMOLITION PLAN KEYED NOTES:

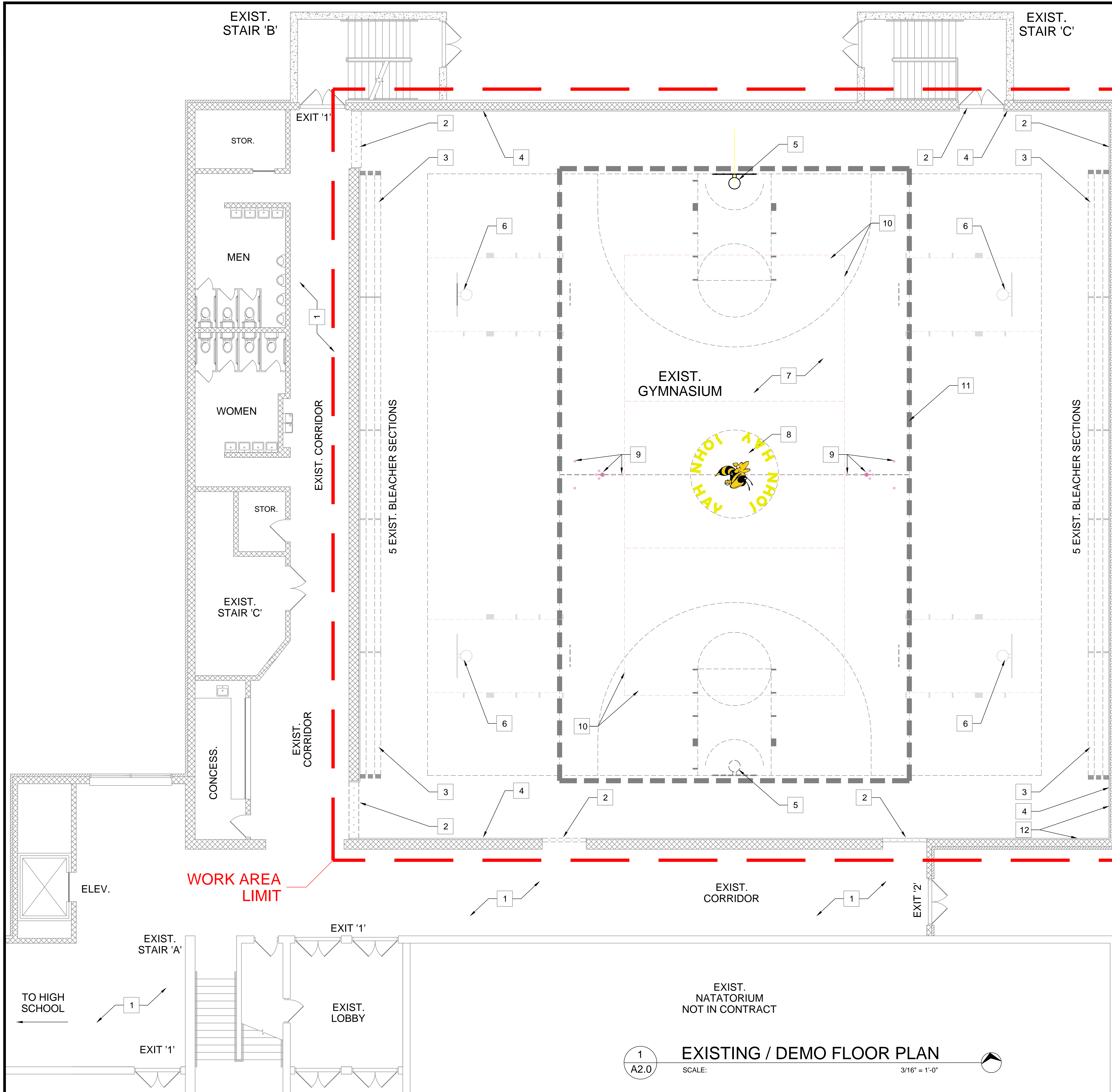
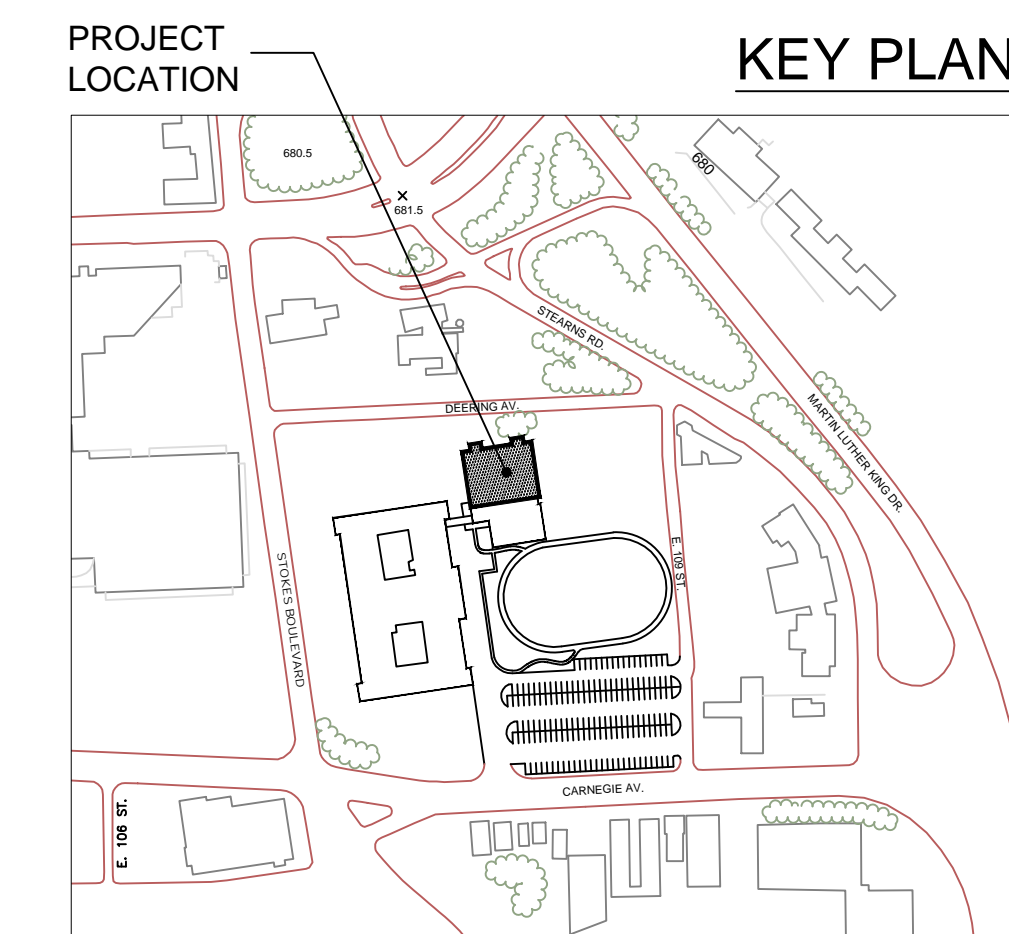
1. EXIST. VCT FLRG. TO REMAIN, NOT IN CONTRACT
2. EXIST. ALUM. THRESHOLD TO BE REPLACED
3. COMPLETELY REMOVE ALL 10 TIER 5 SECTIONS WD. GYMNASIUM BLEACHERS, INCLUDING HARDWARE AND ALL ASSOC. RAILINGS, FASTENER ETC.
4. EXIST. STL. WALL BASE ANGLE TO BE REMOVED
5. EXIST. MAIN BASKETBALL HOOP AND BACKBD. TO REMAIN, N.I.C.
6. EXIST. SECONDARY BASKETBALL HOOP AND BACKBD. TO REMAIN, N.I.C.
7. REMOVE ENTIRE WD. GYMNASIUM FLRG. TO CONC. SLAB ON GRADE
8. CONTRACTOR TO SURVEY GYMNASIUM DETERMINING EXACT ALIGNMENT OF CENTER COURT RELATIVE TO EXIST. MAIN BASKETBALL ORIENTATION
9. EXIST. VOLLEYBALL BRASS FLR. PLATES AND SLEEVES TO BE REMOVED AND REPLACED
10. OUTLINE OF EXIST. VOLLEYBALL COURT; TO BE RE-APPLIED ON NEW WD. FLRG.
11. PERIMETER BORDER OF MAIN BASKETBALL COURT
12. REMOVE ALL WALL MNTD. EXERCISE EQUIP. ETC. IN PREP. FOR EXPANDED BLEACHERS

INDICATED BY



WALL TYPES

- EXISTING BRICK AND CMU BLOCK WALL
- EXISTING CMU BLOCK WALL
- EXISTING CONC. WALL



1 A2.0 EXISTING / DEMO FLOOR PLAN SCALE: 3/16" = 1'-0"

PERMIT ISSUANCE	WDB, II	03.06.2019
ISSUED	BY	DATE

JOHH HAY HIGH SCHOOL

Interior Alteration

Gymnasium Floor and Bleachers Replacement

2075 STOKES BOULEVARD CLEVELAND, OH 44106

216.838.0404 Gary.Sautter@clevelandmetroschools.org

Scale	Sheet
03.06.2019	A2.0

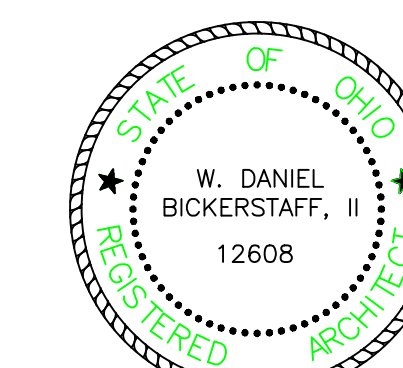


CLEVELAND METROPOLITAN SCHOOL DISTRICT

Project Team:

Architect

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W. Daniel Bickerstaff, II
W. Daniel Bickerstaff, II License No. 12608
Expiration Date: December 31, 2019

GENERAL NOTES:

- 1. UPON COMPLETE REMOVAL OF EXIST. WD. FLNG. ARCHITECT AND OWNER TO PERFORM DETAIL REVIEW AND INSPECTION OF EXIST. SUBFLOOR

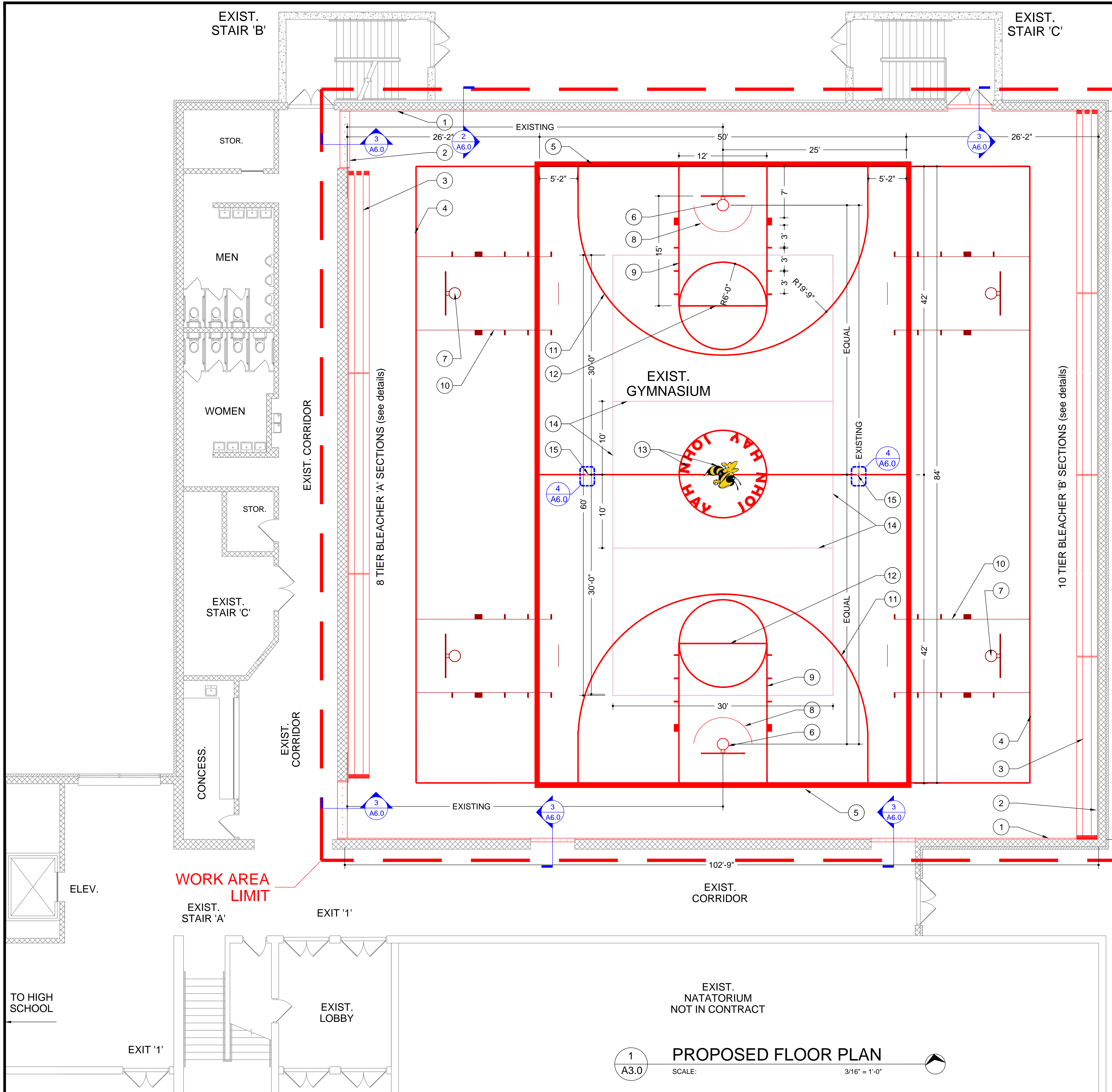
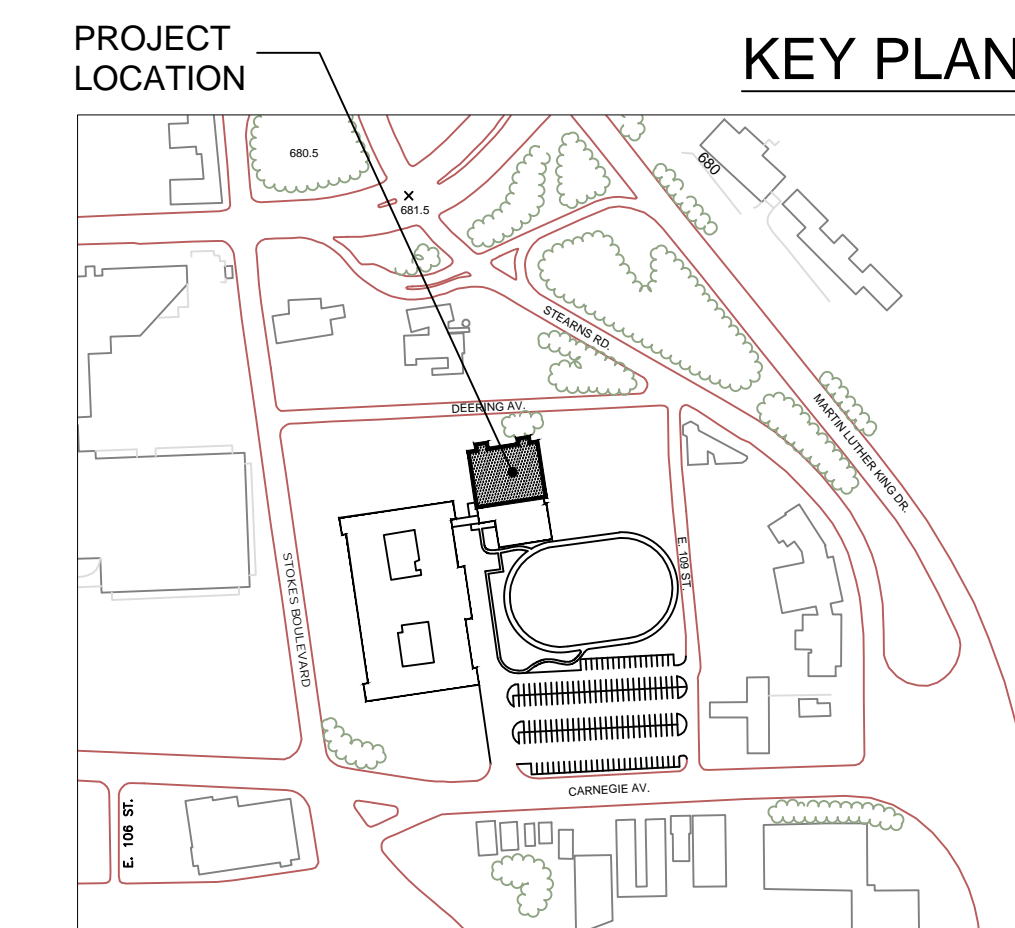
PLAN KEYED NOTES:

INDICATED BY ○

- 1. NEW VENTED WALL BASE
- 2. NEW ALUM. THRESHOLD
- 3. NEW BLEACHERS; SEE DETAILS ON SHEET A4.0 AND A5.0
- 4. NEW GYMNASIUM FLOOR STRIPING- 2"
- 5. NEW 8" MAIN COURT PERIMETER
- 6. EXIST. MAIN COURT BASKETBALL HOOP AND BACKBD. TO REMAIN. N.I.C.
- 7. EXIST. SIDE COURT BASKETBALL HOOP AND BACKBD. TO REMAIN. N.I.C.
- 8. NEW 3 SECOND BOUNDARY- 2"
- 9. NEW MAIN COURT FOUL SHOT STRIPING- 2"
- 10. NEW SIDE COURT FOUL SHOT STRIPING- 2"
- 11. NEW MAIN COURT THREE POINT SHOT LINE- 2"
- 12. NEW MAIN COURT FOUL SHOT- 2"
- 13. NEW HIGH SCHOOL LOGO AND LETTER BY OTHERS
- 14. NEW VOLLEYBALL STRIPING
- 15. NEW BRASS FLOOR PLATE

WALL TYPES

- EXISTING BRICK AND CMU BLOCK WALL
- EXISTING CMU BLOCK WALL
- EXISTING CONC. WALL



1 A3.0 PROPOSED FLOOR PLAN SCALE: 3/16" = 1'-0"

PERMIT ISSUANCE	WDB, II	03.06.2019
ISSUED	BY	DATE

JOHH HAY HIGH SCHOOL

Interior Alteration

Gymnasium Floor and Bleachers Replacement

2075 STOKES BOULEVARD
CLEVELAND, OH 44106


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Scale	Date
X	03.06.2019
Created by	Checked by
DB	WDB, II

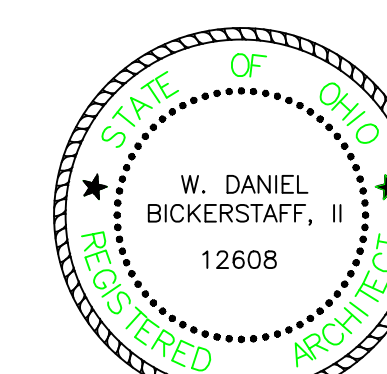
PROPOSED FLOOR PLAN

Scale	Sheet
03.06.2019	A3.0

Project Team:

Architect

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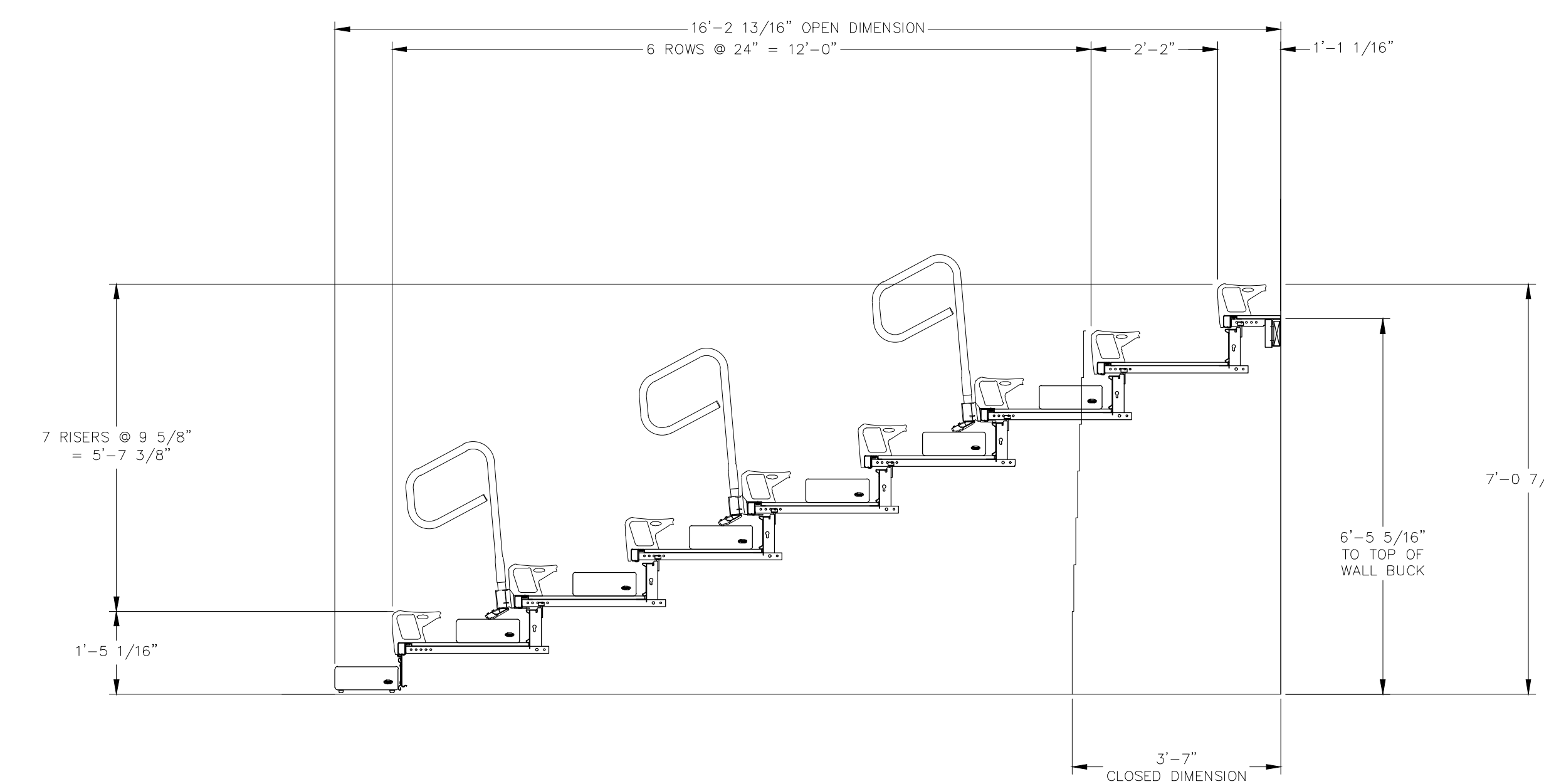
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 SHAKER HEIGHTS, OHIO 44120
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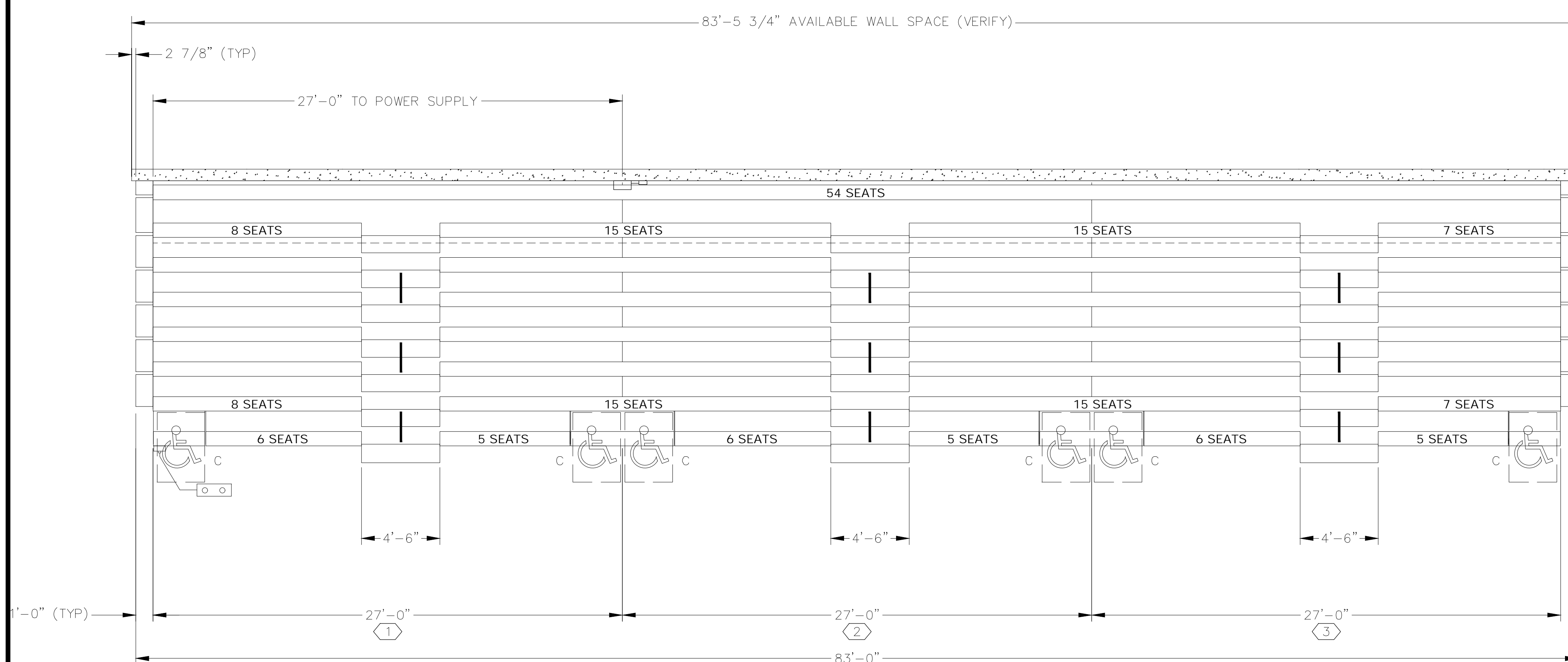
W. Daniel Bickerstaff, II
 License No. 12608
 Expiration Date: December 31, 2019

FLEX ROW SCHEDULE

2, 4, 4, 2
 GROSS SEATS = 432
 NET SEATS = 369



2 BLEACHER 'A' SECTION
 SCALE: 1/2" = 1'-0"

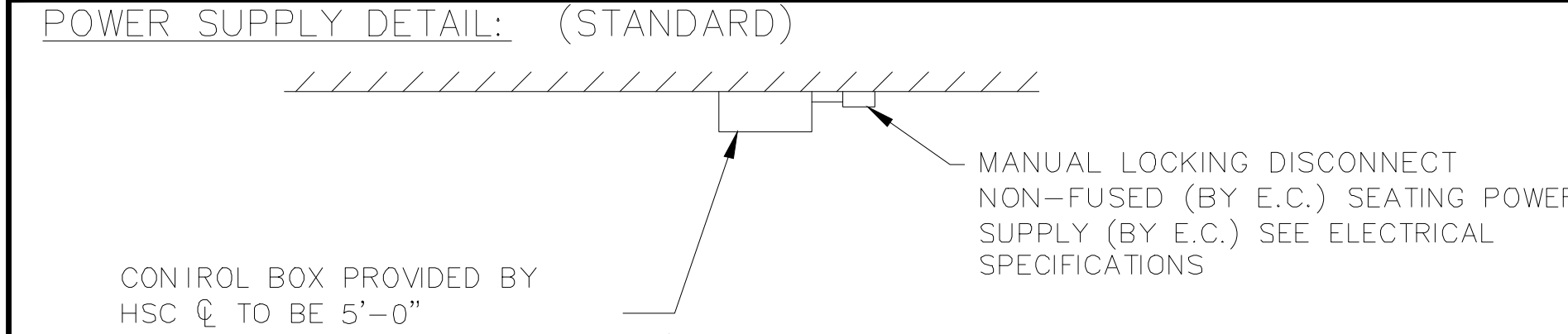


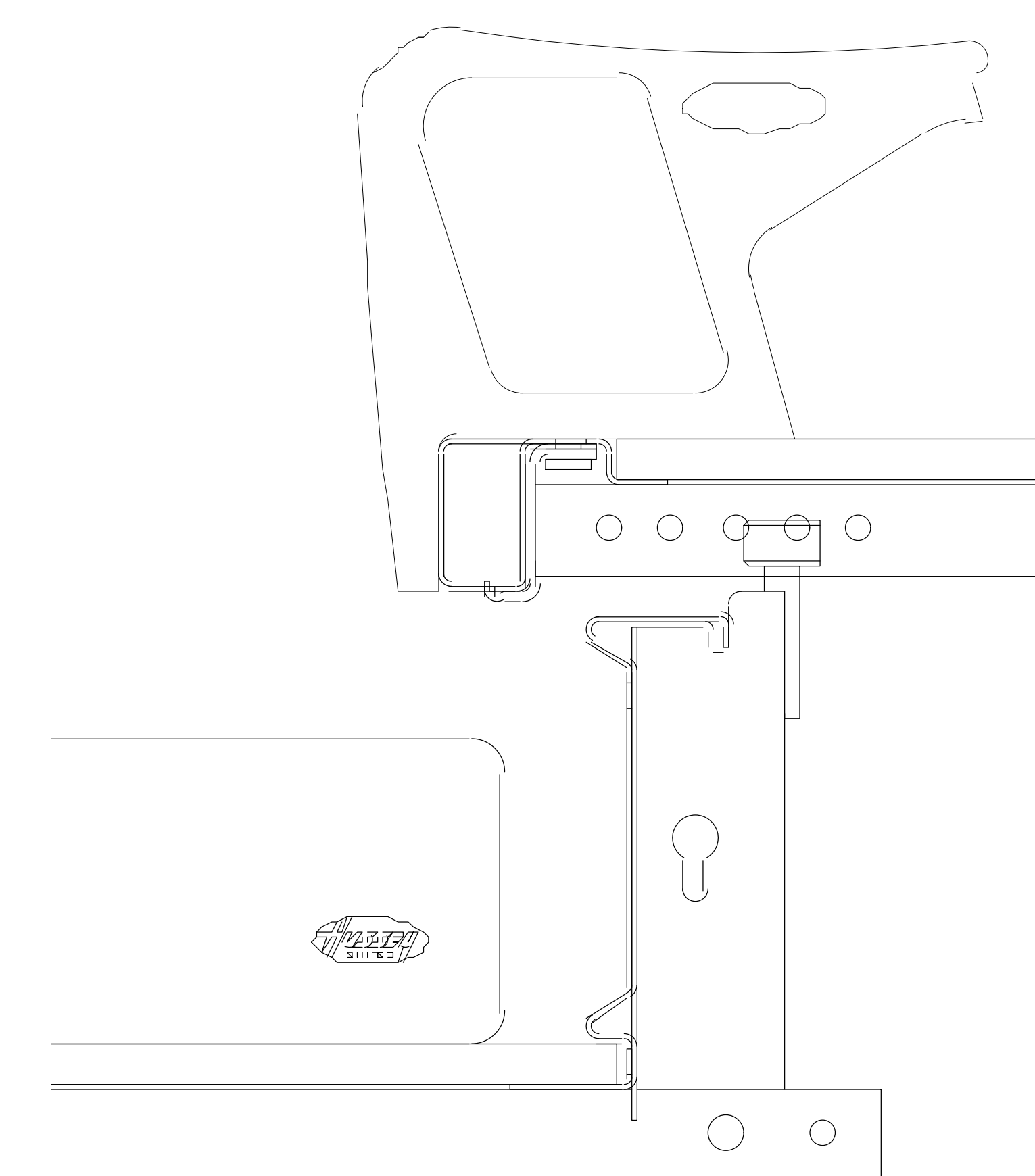
1 NEW WEST BLEACHER 'A' PLAN
 SCALE: 1/2" = 1'-0"

GENERAL NOTES

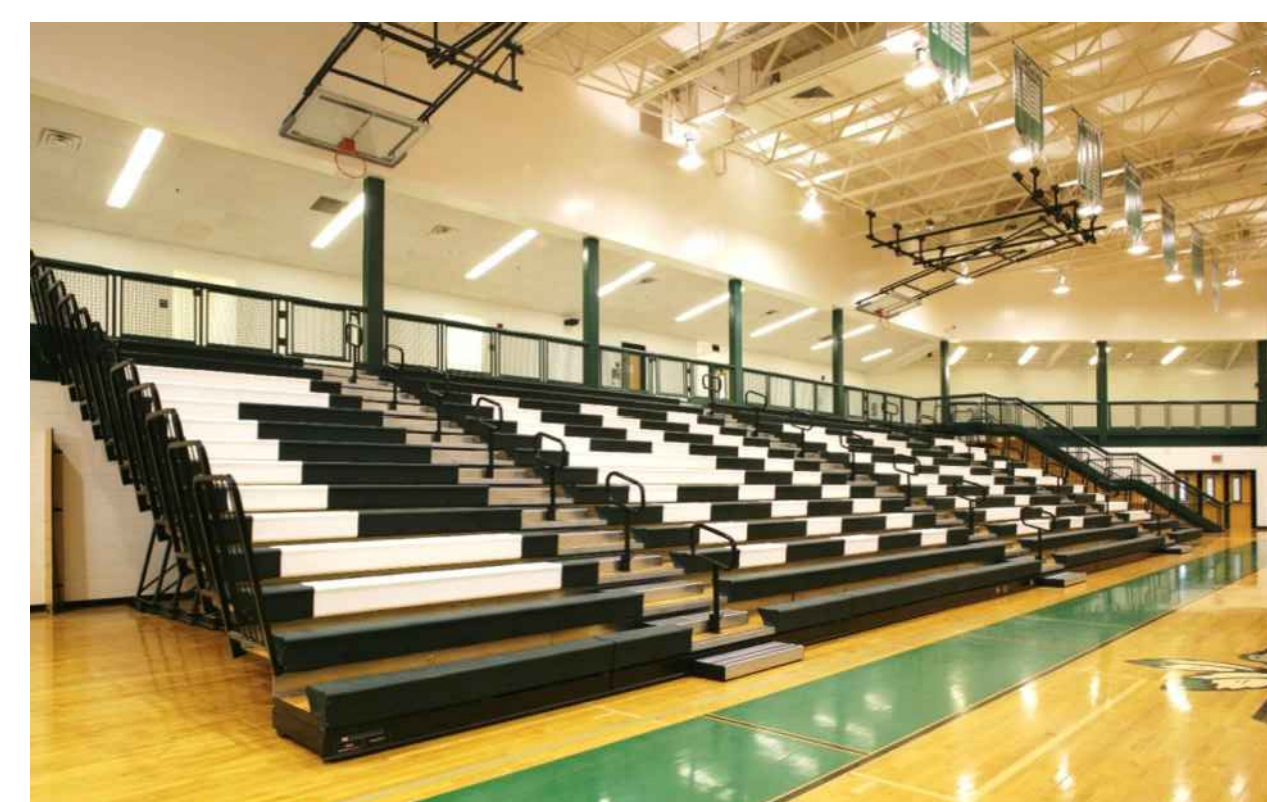
- DEALER WILL VERIFY ALL DIMENSIONS AND INFORMATION SHOWN, INSURE THAT ALL FIELD CHECKED INTERMEDIATE DIMENSIONS EQUAL THEIR CORRESPONDING OVERALL DIMENSION, AND RETURN THIS DRAWING WITH THE APPROPRIATE SIGNATURES FOR FURTHER ACTION.
- HUSSEY SEATING Co. WILL ASSUME RESPONSIBILITY FOR MANUFACTURING AND SUPPLYING PRODUCT ACCORDING TO THIS DRAWING AND APPROVAL.
- THE ARCHITECT, GENERAL CONTRACTOR AND OWNER WILL INSURE THAT FLOORING IS LEVEL WITHIN ±1/8" IN 8'-0" AND THAT THE FLOORING IS CONTINUOUS.
- THE LAYOUT SHOWN IS DRAWN PER HUSSEY SEATING CO. INTERPRETATION OF: **OHIO/IBC 2017**
 IF THE APPLICABLE CODE IS DIFFERENT THAN THE ONE STATED, PLEASE INDICATE ON THE LINE PROVIDED:
 IF NO OTHER CODE IS INDICATED, IT IS ASSUMED THAT THE DEALER/ARCHITECT IS AWARE OF THE CODE APPLIED TO THE LAYOUT SHOWN, AND THAT HUSSEY SEATING Co. CANNOT BE HELD RESPONSIBLE IF ANY DEVIATION OCCURS.
- HUSSEY SEATING COMPANY STRIVES TO CONTINUOUSLY IMPROVE IT'S PRODUCT AND MANUFACTURING METHODS. THE COMPANY RESERVES THE RIGHT TO MAKE CHANGES WITHOUT NOTICE WHEN, IN THE OPINION OF THE COMPANY, SUCH CHANGES IMPROVE THE PRODUCT OR IT'S PERFORMANCE.

MOTORIZED BLEACHER ELEC. REQ.

INTEGRAL POWER SUMMARY					
BANK LETTER	NO. OF MOTORS	PWR FRAME MODEL	CONTROL: PENDANT/KEY	POWER SUPPLY LOCATION	POWERED TIER
A	3	PF2	PENDANT	27'-0"	1
POWER SPECIFICATIONS					
POWER SUPPLY DETAIL: (STANDARD)					
 <p>CONTROL BOX PROVIDED BY HSC & TO BE 5'-0" ABOVE FLOOR. (CONNECTION BY E.C.)</p> <p>MANUAL LOCKING DISCONNECT NON-FUSED (BY E.C.) SEATING POWER SUPPLY (BY E.C.) SEE ELECTRICAL SPECIFICATIONS</p>					
ELECTRICAL SPECIFICATIONS:					
EACH MOTOR: 1/2HP, 120/208V, THREE PHASE, 1.25 SERVICE FACTOR REF. INTEGRAL POWER SUMMARY CHART FOR QUANTITIES. POWER SUPPLY: (SUPPLIED BY ELECTRICAL CONTRACTOR)(E.C.) 120/208 VOLTS, 20 AMPS, 3 PHASE, 4 CONDUCTORS + GROUND MAXIMUM ALLOWABLE FULL LOAD VOLTAGE DROP IS 4 %					



3 COURTSIDE SEAT MODULE DETAIL
 SCALE: 6" = 1'-0"



BANK SUMMARY

BANK 'A'
 MODEL: MAXAM26
 RISE": 9-5/8"
 ROW SPACING: 24"
 TIERS: 8

IMAGE OF BLEACHER AND 'COURTSIDE' INDIVIDUAL SEAT MODULE

PERMIT ISSUANCE WDB, II 03.06.2019
 ISSUED BY DATE

JOHN HAY HIGH SCHOOL

Interior Alteration

Gymnasium Floor and Bleachers Replacement

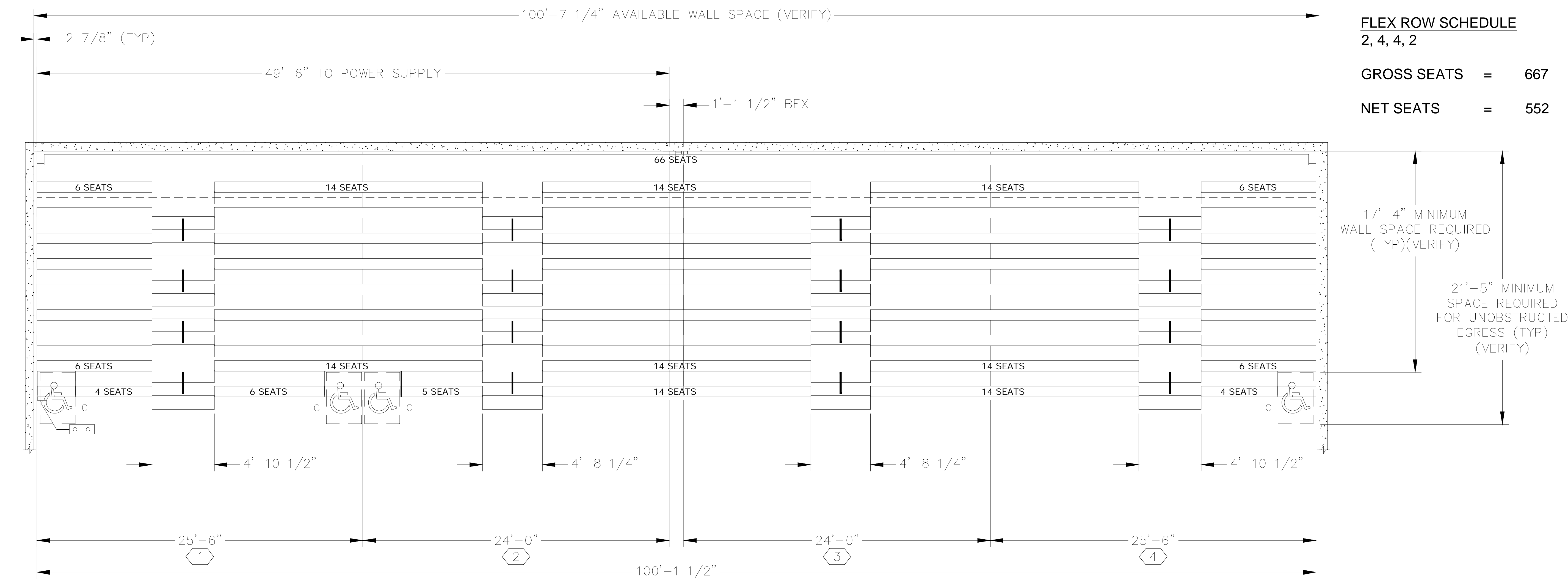
2075 STOKES BOULEVARD
 CLEVELAND, OH 44106

216.838.0404
 Gary.Sautter@clevelandmetroschools.org

SP-AN Approval
 X
 Gary D. Sautter, Dep. Chief, Capital Projects Date
 Consultant Project # DB Designer WDB, II

NEW WEST BLEACHER 'A' PLAN SECTIONS & DETAILS

Scale: Date: 03.06.2019 Sheet: A4.0



FLEX ROW SCHEDULE

2, 4, 4, 2

GROSS SEATS = 667

NET SEATS = 552



CLEVELAND METROPOLITAN SCHOOL DISTRICT

Project Team:

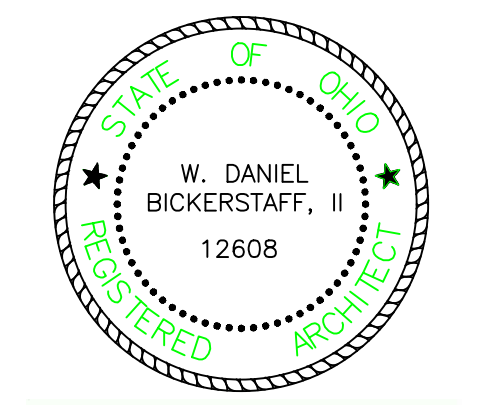
Architect



UBIQUITOUS DESIGN, LTD. ARCHITECTS

3443 LEE ROAD SHAKER HEIGHTS, OHIO 44120

P.O. BOX 4444 F216.752.2011 ARCHIT@UBD.LTD.COM

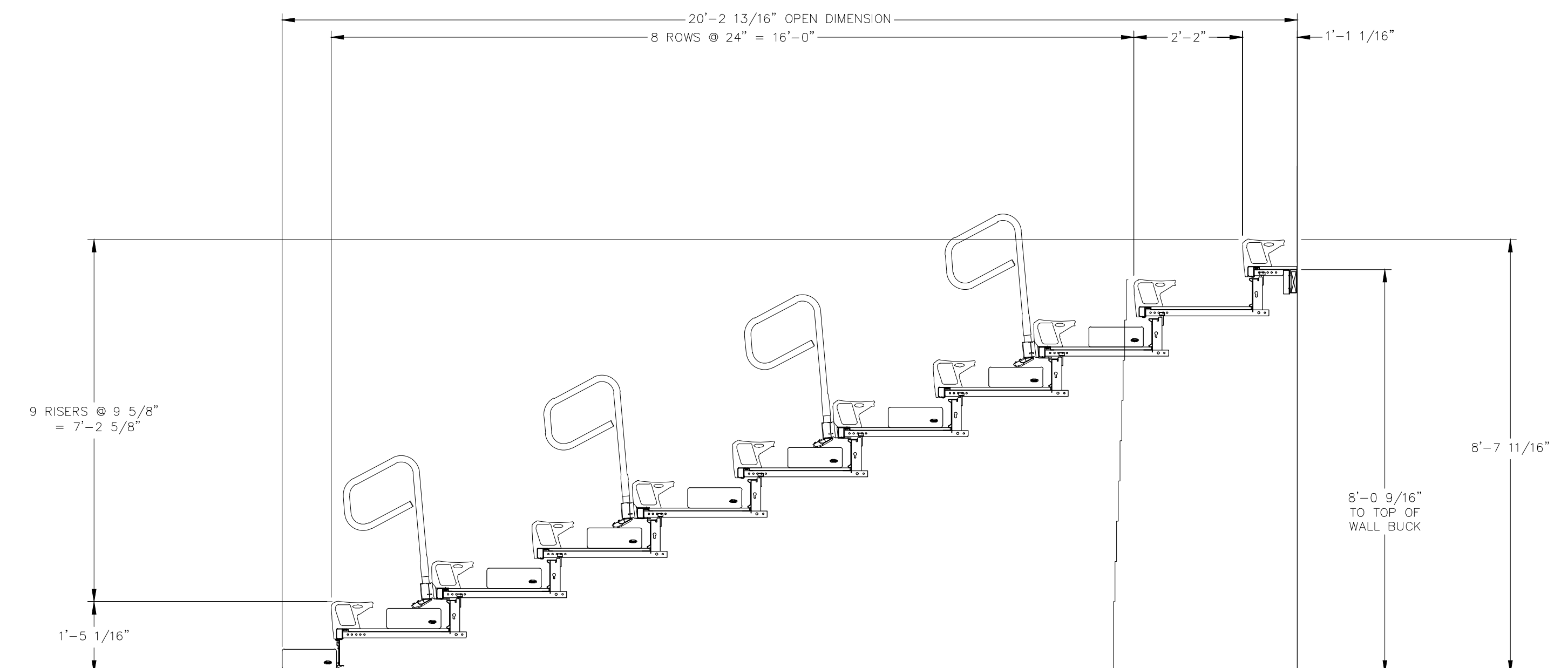


W. Daniel Bickerstaff, II License No. 12608
Expiration Date: December 31, 2019

1 NEW EAST BLEACHER 'B' PLAN
SCALE: 1/4" = 1'-0"

GENERAL NOTES

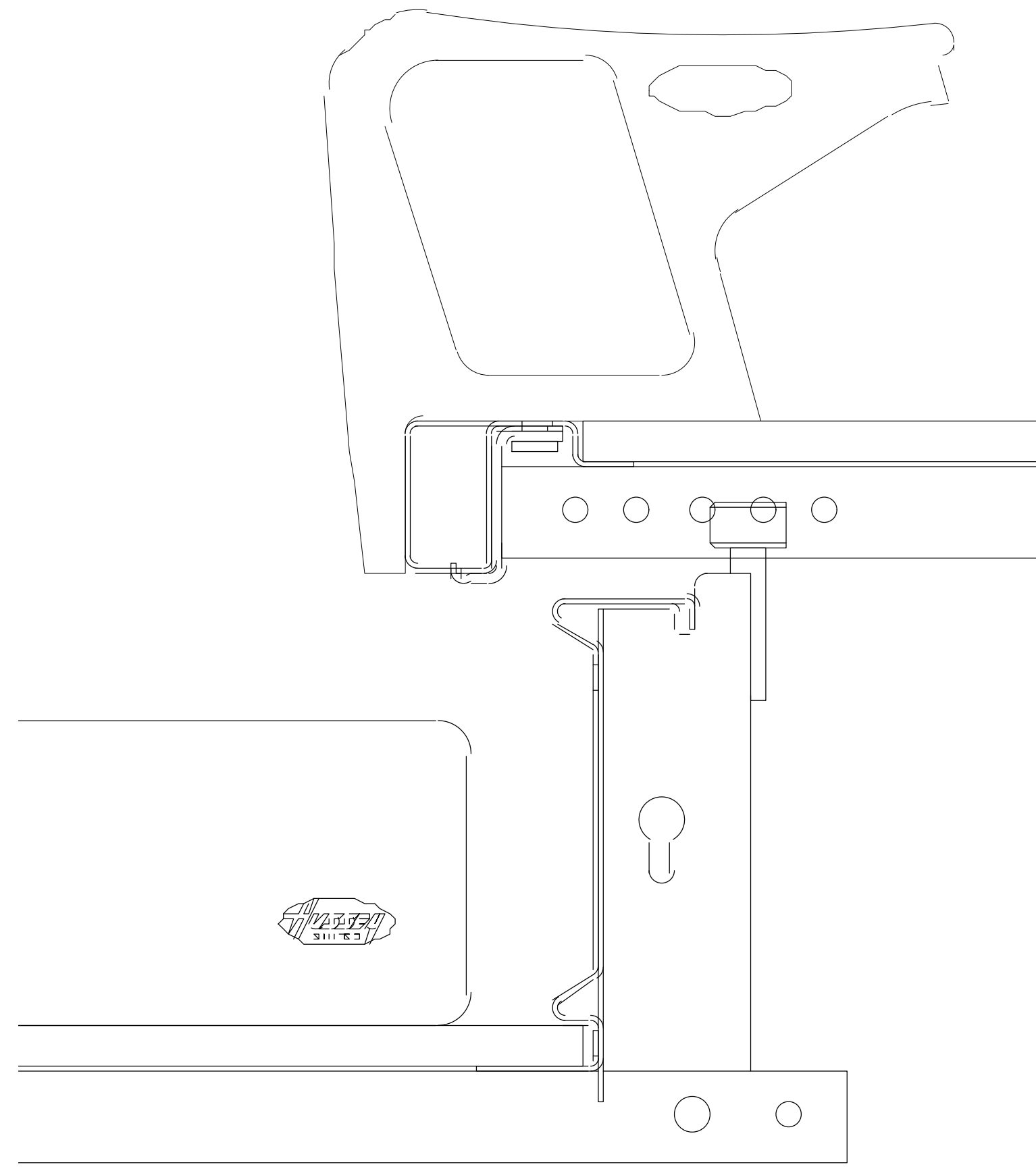
1. DEALER WILL VERIFY ALL DIMENSIONS AND INFORMATION SHOWN, INSURE THAT ALL FIELD CHECKED INTERMEDIATE DIMENSIONS EQUAL THEIR CORRESPONDING OVERALL DIMENSION, AND RETURN THIS DRAWING WITH THE APPROPRIATE SIGNATURES FOR FURTHER ACTION.
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2 BLEACHER 'B' SECTION
SCALE: 1/2" = 1'-0"

MOTORIZED BLEACHER ELEC. REQ.

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A	3	PF2	PENDANT	27'-0"	1
POWER SPECIFICATIONS					
POWER SUPPLY DETAIL: (STANDARD)					
CONTROL BOX PROVIDED BY HSC Q TO BE 5'-0" ABOVE FLOOR. (CONNECTION BY E.C.)					
MANUAL LOCKING DISCONNECT NON-FUSED (BY E.C.) SEATING POWER SUPPLY (BY E.C.) SEE ELECTRICAL SPECIFICATIONS					
ELECTRICAL SPECIFICATIONS:					
EACH MOTOR: 1/2HP, 120/208V, THREE PHASE, 1.25 SERVICE FACTOR					
REF. INTEGRAL POWER SUMMARY CHART FOR QUANTITIES.					
POWER SUPPLY: (SUPPLIED BY ELECTRICAL CONTRACTOR)(E.C.)					
120/208 VOLTS, 20 AMPS, 3 PHASE, 4 CONDUCTORS + GROUND					
MAXIMUM ALLOWABLE FULL LOAD VOLTAGE DROP IS 4 %.					



3 COURTSIDE SEAT MODULE DETAIL
SCALE: 6" = 1'-0"

BANK SUMMARY

BANK 'B'
MODEL: MAXAM26
RISE": 9-5/8"
ROW SPACING: 24"
TIERS: 10

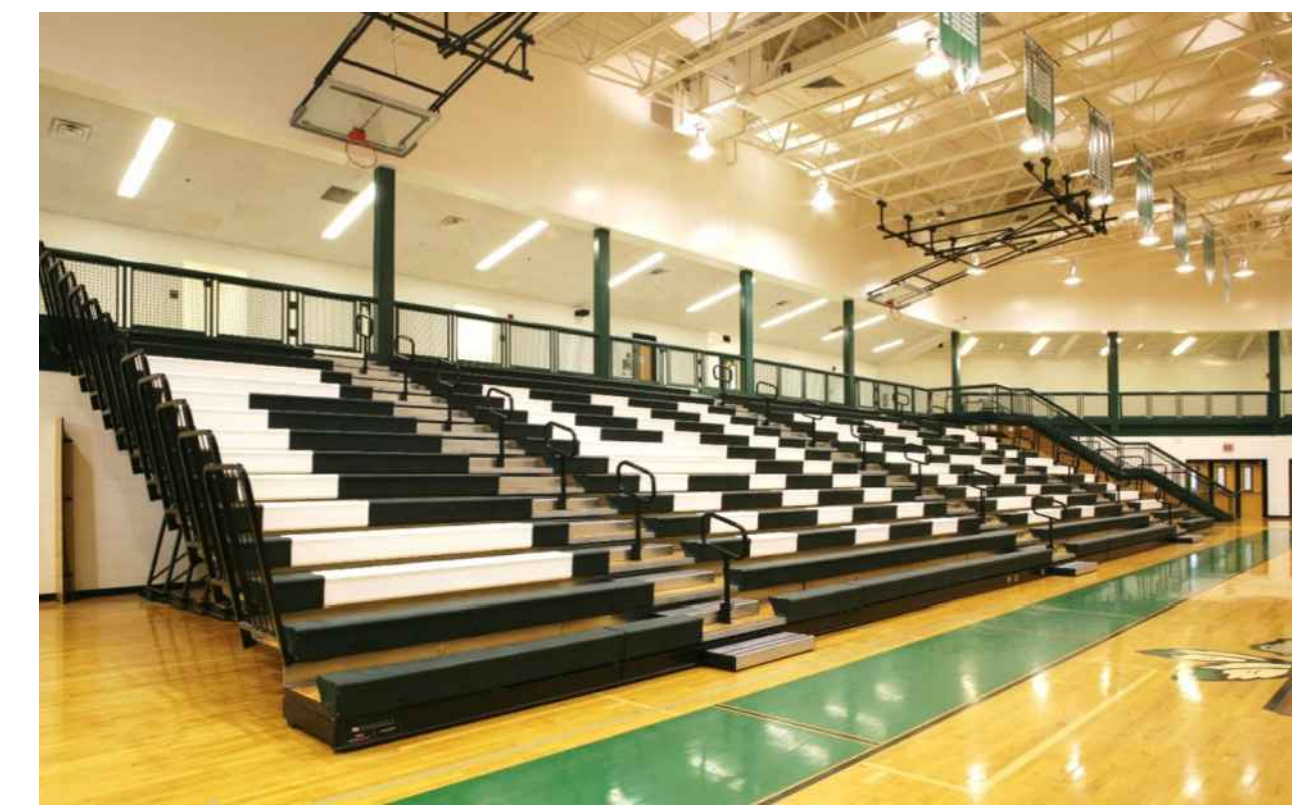


IMAGE OF BLEACHER AND 'COURTSIDE' INDIVIDUAL SEAT MODULE

PERMIT ISSUANCE WDB, II 03.06.2019

ISSUED BY DATE

JOHH HAY HIGH SCHOOL

Interior Alteration

Gymnasium Floor and Bleachers Replacement

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Gary.Sautter@clevelandmetroschools.org

SP-AN Approved
X Gary D. Sautter, Dep. Chief, Capital Projects Date
Consultant Project # DB Designer WDB, II

NEW EAST BLEACHER 'A' PLAN SECTIONS & DETAILS

03.06.2019

A5.0



CLEVELAND METROPOLITAN SCHOOL DISTRICT

Project Team:

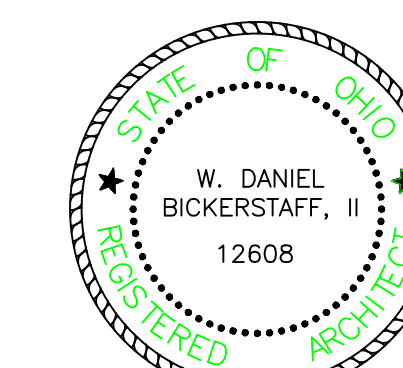
Architect



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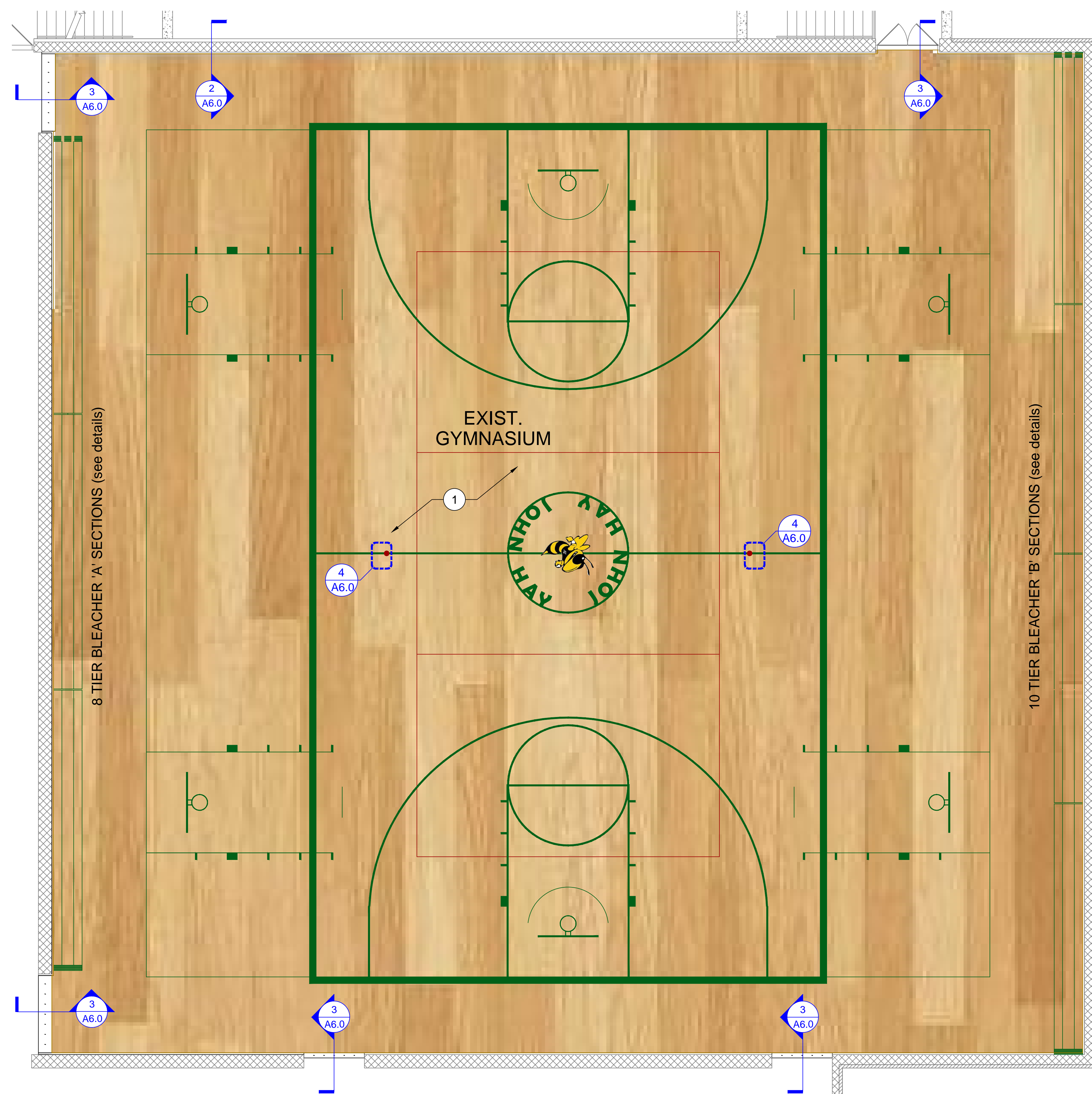
2075 STOKES BOULEVARD
CLEVELAND, OH 44106

216.838.0404
Gary.Sautter@clevelandmetroschools.org

Prepared by: Gary D. Sautter, Dep. Chief, Capital Projects Date: DB WDB, II

NEW WEST BLEACHER 'A' PLAN SECTIONS & DETAILS

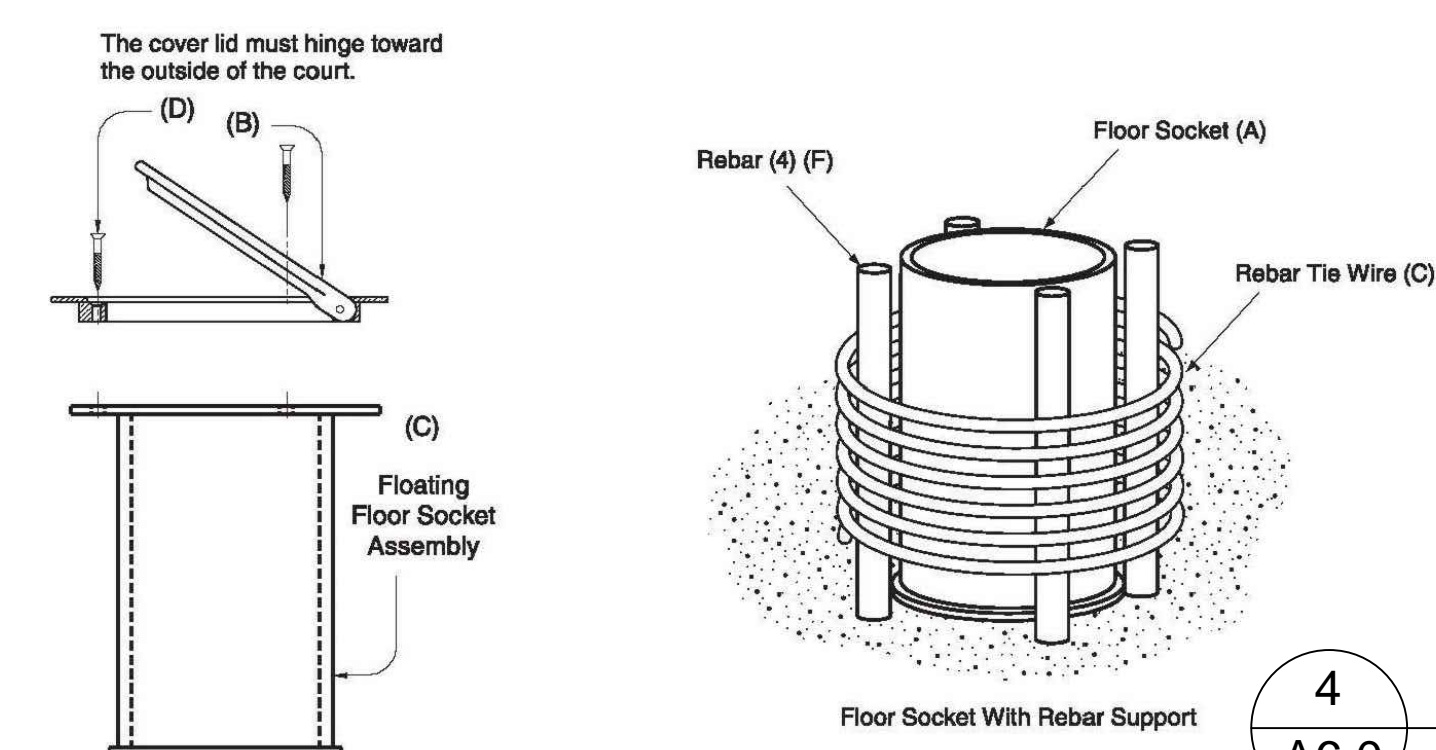
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Date: 03.06.2019



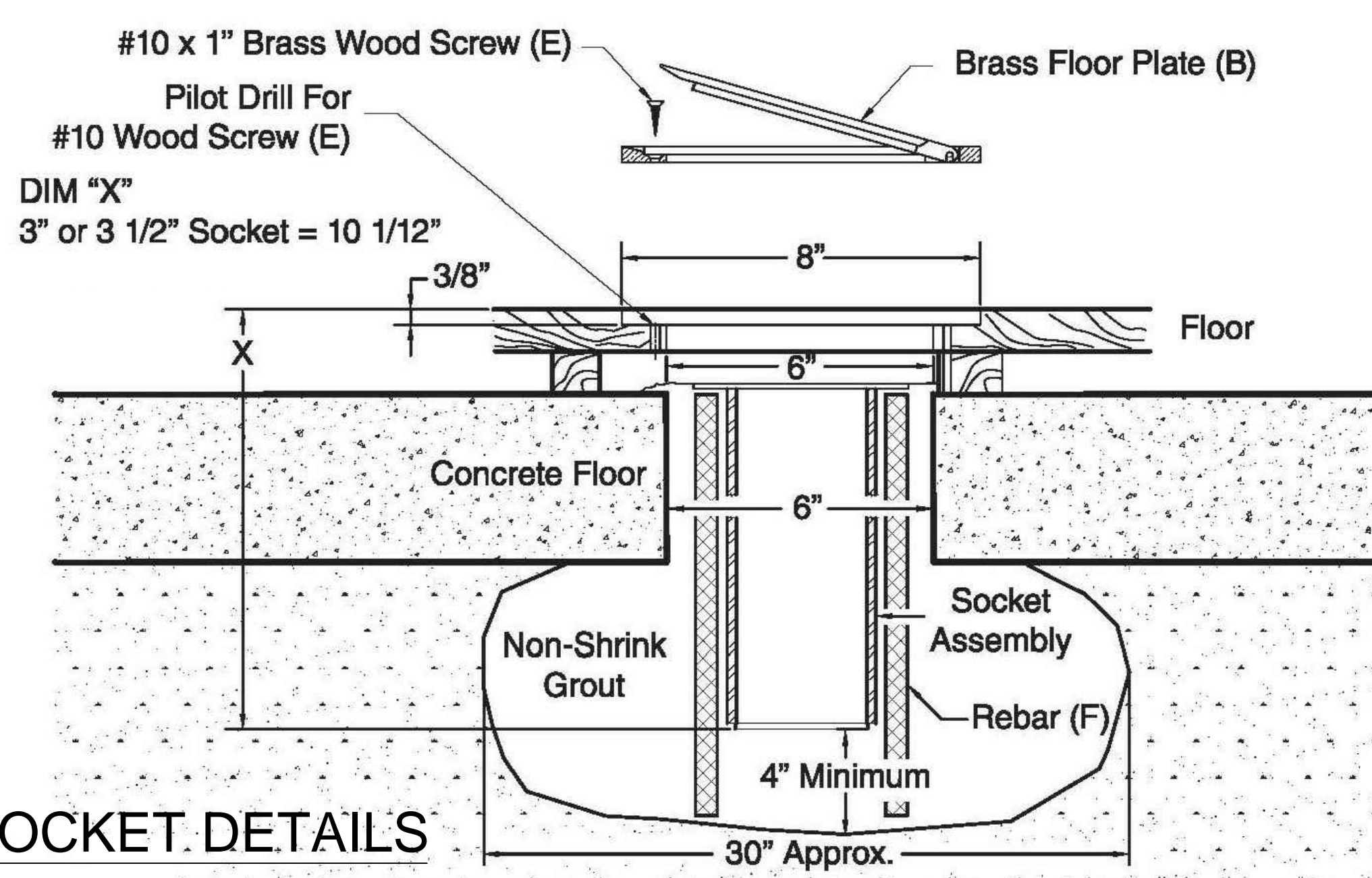
1 WOOD FLOORING PLAN
SCALE: 3/16" = 1'-0"

GENERAL NOTES:
1. UPON COMPLETE REMOVAL OF EXIST. WD. FLNG. ARCHITECT AND OWNER TO PERFORM DETAIL REVIEW AND INSPECTION OF EXIST. SUBFLOOR

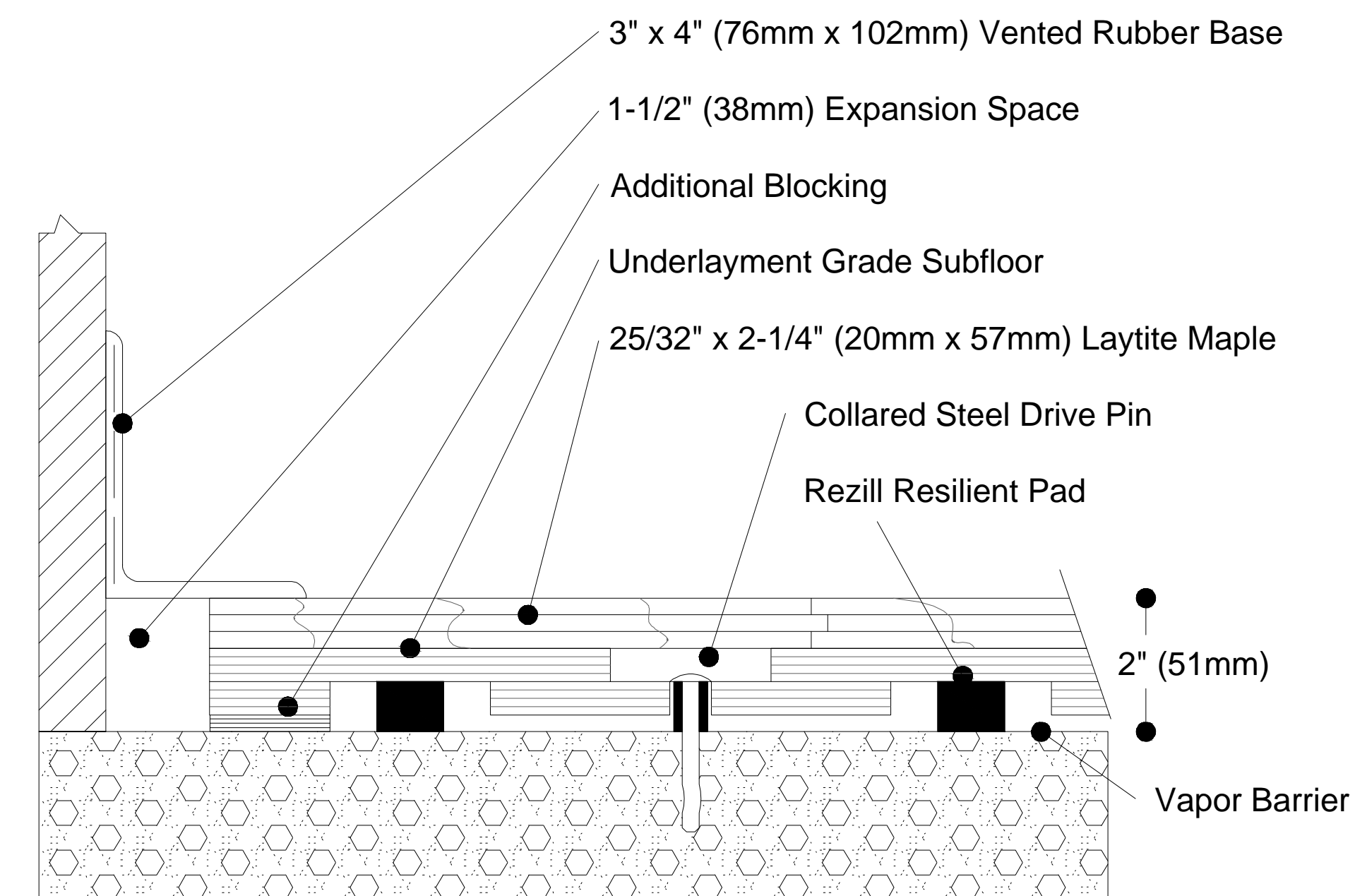
PLAN KEYED NOTES: INDICATED BY ○
1. NEW 25" x 2-1/4" TONGUE & GROOVE MAPLE FLOORING



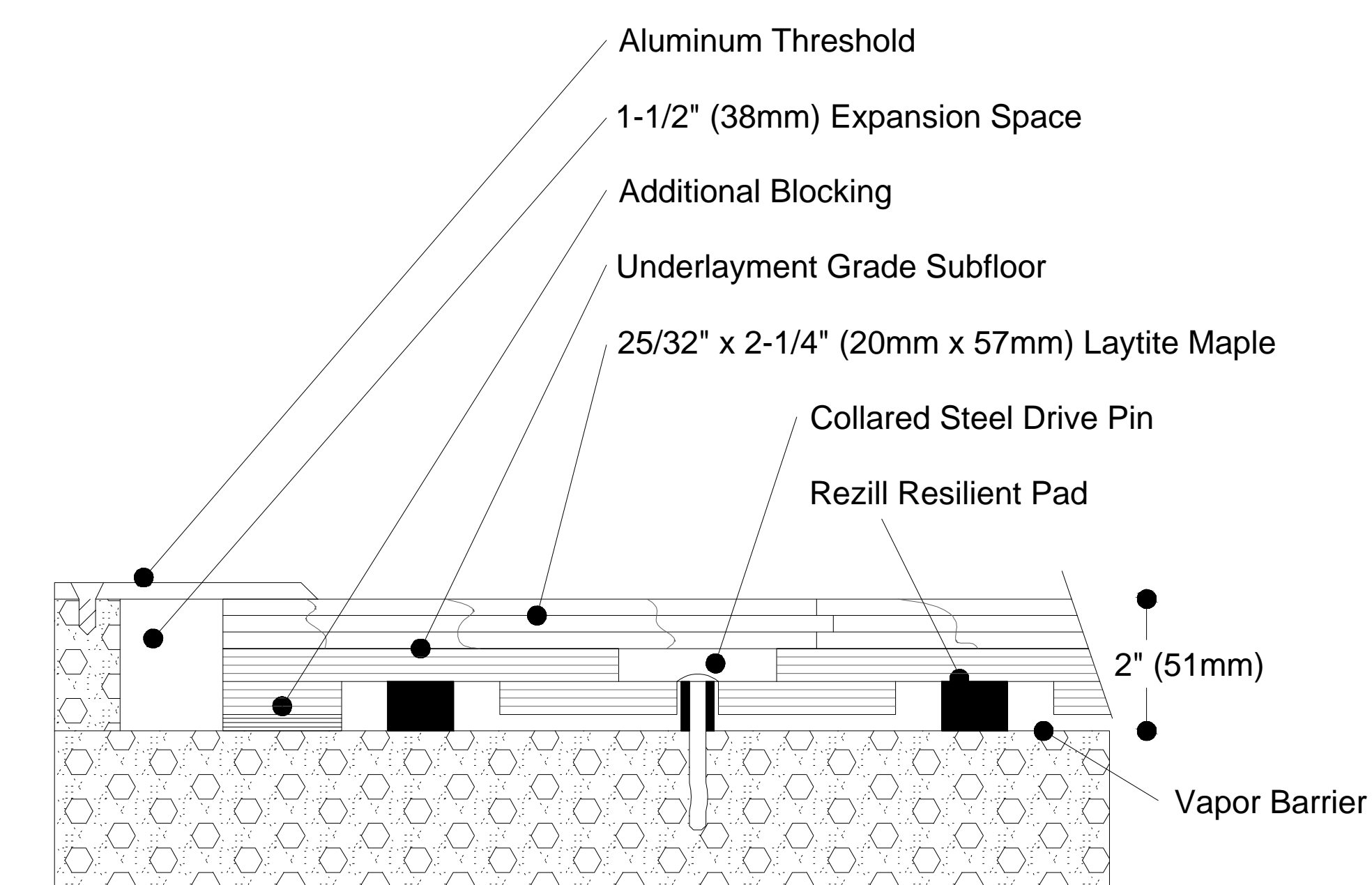
4 VOLLEYBALL POLE SOCKET DETAILS
SCALE: NTS



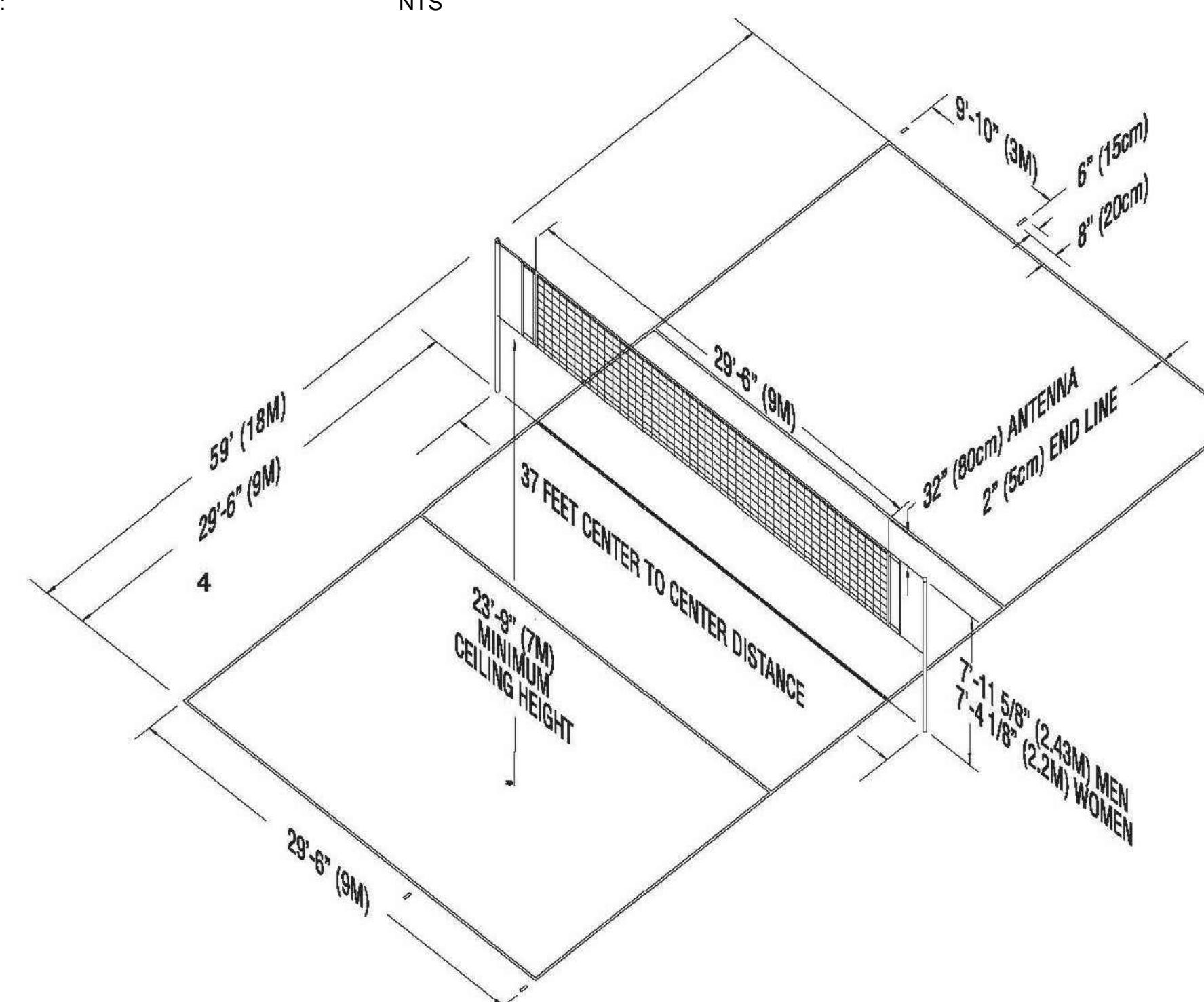
RezillBase SP-111 WOOD FLOORING



2 WALL BASE DETAIL
SCALE: NTS



3 THRESHOLD DETAIL
SCALE: NTS



5 VOLLEYBALL COURT DIM.
SCALE: NTS

TELESCOPING GYM SEATS SPECIFICATIONS

PART 1 GENERAL

1.01 SUMMARY

- A. Section Includes: Telescoping Gym Seating includes, either manually or electrically operated systems of multiple-tiered seating rows comprising of seat, deck components, understructure that permits closing without requiring dismantling, into a nested configuration for storing or for moving purposes.
 - 1. Typical applications include the following:
 - a. Wall Attached Telescoping Bleacher
- B. Related Sections:
 - 1. Division 9 finishes sections for adequate floor & wall construction for operation of Telescoping Gym Seats. Flooring shall be level and rear wall plumb within 1/8" in 8'-0". Maximum bleacher force on the floor, of a 27'0" section, shall be a static point load of less than 300 psi.
 - 2. Division 16 Electrical sections for electrical wiring and connections for electrically operated Telescoping Gym Seats.
- C. Alternates: This section specifies alternates for Telescoping Gym Seat products. Refer to Part 2 products for alternate products.
- A. BIDDER QUALIFICATIONS
 - 1) Bidders are required to be an authorized dealer or manufacturer for equipment proposed which on a day-to-day basis regularly provide the equipment offered. Bidders are further advised that only standard production models or standard options will be acceptable for award. Equipment offered shall be currently manufactured on an active assembly line. The State is only interested in proven equipment; provided, installed, and serviced by Authorized Dealers capable of providing references.
 - 2) INSTALLER QUALIFICATIONS: Bleacher installer shall be Factory Certified by the Manufacturer. Proof of Factory Certified Installation Certificate shall be provided along with the Invitation to Bid. Failure to provide this information shall result in rejection of bid. (No Exceptions Taken)
 - 3.) SERVICE CAPABILITY: The Bleacher Contractor must be able to show proof of full time service capability by factory certified technicians directly employed by the Bleacher Contractor. Sub-Contractors of the Bleacher Contractor or Factory Technicians located outside of the State do not qualify under this service response requirement. Adequate and satisfactory availability of repair parts and supplies, and ability to meet warranty and service requirements are a requirement of this Invitation to Bid. The State reserves the right to satisfy itself by inquiry or otherwise as to bidder's capabilities in this regard. A four (4) to eight (8) hour maximum on-site repair response is required during normal working hours, 8 a.m. to 5 p.m. weekdays (excluding holidays) All Full Time Service Personnel shall be Factory Authorized and Trained. Proof of Service Capability along with a listing of service parts regularly maintained in inventory shall be provided along with the Invitation for Bid. Failure to provide this information shall result in rejection of bid.

1.02 REFERENCES

- A. National Fire Protection Association (NFPA)
 - 1. NFPA 102 Standard for Assembly Seating, Tents and Membrane Structures.
- B. American Welding society (AWS):
 - 1. AWS D1.1 Structural Welding Code - Steel
 - 2. AWS D1.3 Structural Welding Code - Sheet Steel.
- C. American Institute of Steel Construction (AISC):
 - 1. AISC - Design of Hot Rolled Steel Structural Members.
- D. American National Standards Institute (ANSI).
- E. American Iron & Steel Institute (AISI):
 - 1. AISI - Design Cold Formed Steel Structural Members.
- F. Aluminum Association (AA):
 - 1. AA - Aluminum Structures, Construction Manual Series.
- G. American Society for Testing Materials (ASTM):
 - 1. ASTM - Standard Specification for Properties of Materials.
- H. National Forest Products Association (NFoPA):
 - 1. NFoPA - National Design Specification for Wood Construction.
- I. Southern Pine Inspection Bureau (SPIB):
 - 1. SPIB - Standard Grading Rules for Southern Pine.
- J. National Bureau of Standards/Products Standard (NBS/PS):
 - 1. PSI - Construction and Industrial Plywood.
- K. Americans with Disability Act (ADA)
 - 1. ADA - Standards for Accessible Design.

1.03 MANUFACTURER'S SYSTEM ENGINEERING DESCRIPTION

- A. Structural Performance: Engineer, fabricate and install telescopic gym seating systems to the following structural loads without exceeding allowable design working stresses of materials involved, including anchors and connections. Apply each load to produce maximum stress in each respective component of each gym seat unit.
 - 1. Design Loads: Comply with NFPA 102, 1992 Edition, Chapter 5 for design loads.
- B. Manufacturer's System Design Criteria:
 - 1. Gymnasium seat assembly: Design to support and resist, in addition to it's own weight, the following forces:
 - a. Live load of 120 lbs per linear foot on seats and decking
 - b. Uniformly distributed live load of not less than 100 lbs per sq. ft. of gross horizontal projection.
 - c. Parallel sway load of 24 lbs. per linear foot of row combined with (b.) above
 - d. Perpendicular sway load of 10 lbs. per linear foot of row combined with (b.) above
 - 2. Hand Railings, Posts and Supports: Engineered to withstand the following forces applied separately:
 - a. Concentrated load of 200 lbs. applied at any point and in any direction.
 - b. Uniform load of 50 lbs. per foot applied in any direction.
 - 3. Guard Railings, Post and Supports: Engineered to withstand the following forces applied separately:
 - a. Concentrated load of 200 lbs. applied at any point and in any direction along top rail.
 - b. Uniform load of 50 lbs. per foot applied horizontally at top rail and a simultaneous uniform load of 100 lbs. per foot applied vertically downward.
 - 4. Member Sizes and Connections: Design criteria (current edition) of the following shall be the basis for calculation of member sizes and connections:
 - a. AISC: Manual of Steel Construction
 - b. AISI: Specification for Design of Cold Formed Steel Structural Members
 - c. AA: Specification for Aluminum Structures
 - d. NFOPA: National Design Guide For Wood Construction.

1.04 SUBMITTALS

- A. Section Cross-Reference: Required submittals in accordance with "Conditions of the Contract" and Division 1 General Requirements sections of this "Project Manual."
- B. Project Data: Manufacturer's product data for each system. Include the following:
 - 1. Project list: Ten (10) seating projects of similar size, complexity and in service for at least five (5) years.
 - 1. Deviations: List of deviations from these project specifications, if any.
- C. Shop Drawings: Indicate Telescoping Gym Seat assembly layout. Show seat heights, row spacing and rise, aisle widths and locations, assembly dimensions, anchorage to supporting structure, material types and finishes.
 - 1. Wiring Diagrams: Indicate electrical wiring and connections.
 - 2. Graphics Layout Drawings: Indicate pattern of contrasting or matching seat colors
- D. Samples: Seat materials and color finish as selected by Architect from manufacturers offered color finishes.
- E. Manufacturer Qualifications: Certification of insurance coverage and manufacturing experience of manufacturer, and copy of a telescopic load test to all loads described in 1.03 above, observed by a qualified independent testing laboratory, and certified by a registered professional structural engineer verifying the integrity of the manufacturer's geometry design and base structural assumptions.
- F. Installer Qualifications: Installer qualifications indicating capability, experience, and official Certification Card issued by manufacturer of telescopic seating.
- G. Engineer Qualifications: Certification by a professional engineer registered in the state of manufacturer that the equipment to be supplied meets or exceeds the design criteria of this specification.
- H. Operating/Maintenance Manuals: Provide to Owner maintenance manuals. Demonstrate operating procedures, recommended maintenance and inspection program.
- I. Warranty: Manufacturers standard warranty documents.

1.05 QUALITY ASSURANCE

- A. Seating Layout: Comply with current NFPA 102 Standard for Assembly seating, Tents, and Membrane Structures, and specifically with Folding and Telescopic Seating, except where additional requirements are indicated or imposed by authorities having jurisdiction.
- B. Welding Standards & Qualification: Comply with AWS D1.1 Structural Welding Code - Steel and AWS D1.3 Structural Welding Code - Sheet Steel.
- C. Insurance Qualifications: Mandatory that each bidder submit with his bid an insurance certificate from the manufacturer evidencing the following insurance coverage:
 - 1. Workers Compensation - including Employers Liability with the following limits:
 - \$500,000.00 (US) Each Accident
 - \$500,000.00 (US) Disease - Policy Limit
 - \$500,000.00 (US) Disease - Each Employee
 - 2. Commercial General Liability - including premises/ operations, independent contractors and products completed operations liability. Limits of liability shall not be less than \$5,000,000.00 (US).
- D. Manufacturer Qualifications: Manufacturer who has a minimum of 40 years of experience manufacturing telescoping gym seats and can demonstrate continual design enhancement and 25-year minimum product life-cycle support of telescopic seating.
- E. Installer Qualifications: Engage experienced Installer who has specialized in installation of telescoping gym seat types similar to types required for this project and who carries an official Certification Card issued by telescoping gym seat manufacturer.
- F. Engineer Qualifications: Engage licensed professional engineer experienced in providing engineering services of the kind indicated that have resulted in the successful installation of telescoping bleachers similar in material, design, fabrication, and extent to those types indicated for this project.

1.06 DELIVERY, STORAGE AND HANDLING

- A. Deliver telescopic gym seats in manufacturers packaging clearly labeled with manufacturer name and content.
- B. Handle seating equipment in a manner to prevent damage.
- C. Deliver the seating at a scheduled time for installation that will not interfere with other trades operating in the building.

1.07 PROJECT CONDITIONS

- A. Field Measurements: Coordinate actual dimensions of construction affecting telescoping bleachers installation by accurate field measurements before fabrication. Show recorded measurements on final shop drawings. Coordinate field measurements and fabrication schedule with construction progress to avoid delay of Work.

1.08 WARRANTY

- A. Manufacturer's Product Warranty: Submit manufacturer's standard warranty form for telescoping bleachers. This warranty is in addition to, and not a limitation of other rights Owner may have under Contract Documents.
 - 1. Warranty Period: Five years from Date of Acceptance.
 - 2. Beneficiary: Issue warranty in legal name of project Owner.
 - 3. Warranty Acceptance: Owner is sole authority who will determine acceptance of warranty documents.

1.09 MAINTENANCE AND OPERATION

- A. Instructions: Both operation and maintenance shall be transmitted to the Owner by the manufacturer of the seating or his representative.
- B. Service: Maintenance and operation of the seating system shall be the responsibility of the Owner or his duly authorized representative, and shall include the following:
 - 1. Operation of the Seating System shall be supervised by responsible personnel who will assure that the operation is in accordance with the manufacturer's instructions.
 - 2. Only attachments specifically approved by the manufacturer for the specific installation shall be attached to the seating.
 - 3. An annual inspection and required maintenance of each seating system shall be performed to assure safe conditions. At least biannually the inspection shall be performed by a professional engineer or factory qualified service personnel.

PART 2 - PRODUCTS

2.01 MANUFACTURERS

- A. Manufacturer: Hussey Seating Company, U.S.A.
 - 1. Address: North Berwick, Maine, 03906
 - 2. Telephone: (207) 678-2271; Fax: (207) 678-9690
 - 3. Product: MAXAM Telescopic Gym Seat System by Hussey Seating Company
 - a. Model: MAXAM26 Series Telescopic Gym Seats, adjustable row spacing in two inch increments from 22 inches to 26 inches .
 - b. Row Rise Spacing: 9 5/8"
 - c. Aisle Type: Intermediate aisle steps with center hand rails
 - d. Seat Type: 10" Courtside Collection
 - 1) Seat color finish: manufacturers 15 standard for Courtside Collection
 - e. Rail Type: Self-storing end rails and Auto Rotating Aisle Rail
 - 1.) Rail color finish: Black
 - f. Operation: Electric
 - 1) Electrical Power System: Integral power with pendant control operation, limit switches
 - 4. Product Description/Criteria:

	Bank A	Bank B
a. Bank Length:	83'0"	100' 1-1/2"
b. Aisle Width:	(3)@4'6"	(2)@4'10-1/2" and (2)@4'8-1/4"
c. Number of Tiers:	8	10
d. Row Spacing(s):	24"	24"
e. Row Rise:	9-5/8"	9-5/8"
f. Open Dimension:	16' 2-13/16"	20'2-13/16"
g. Closed Dimension:	37"	3' 8"
h. Overall Unit Height:	70-7/16'h	87-11/6'h
i. Net Capacity:	369	552
 - 5. Miscellaneous Product Accessories: 81 Scorer's Table, Safety End Curtain (Bank A Only)

- 6. Handicap Seating Provisions: Provide first tier modular recoverable Flex-rows only as indicated on drawing
- B. Other Acceptable Manufacturers: Will be considered if in compliance with these specifications. Deviations must be submitted with bid in order that a fair and proper evaluation be made. Those bidders not submitting a list of deviations will be presumed to have bid as specified.

2.02 ALTERNATES

- A. Base Bid:
 - 1. Base Bid Product: Hussey Seating
 - 2. Base Bid Product Accessories: as specified below
- B. Alternate No. #1: In lieu of providing base bid product, provide the following:
 - 1. Alternate Product: Interkal
 - 2. Alternate Product Accessories: as specified below
- C. Alternate No. #2: In lieu of providing base bid product, provide the following:
 - 1. Alternate Product: Irwin Seating
 - 2. Alternate Product Accessories: as specified below

2.03 MATERIALS

- A. Lumber: ANSI/Voluntary Product 20, B & B Southern Pine
- B. Plywood: ANSI/Voluntary Product PS1, APA A-C Exterior Grade.
- C. Structural Steel Shapes, Plates and Bars: ASTM A 36.
- D. Uncoated Steel Strip (Non-Structural Components): ASTM A569, Commercial Quality, Hot-Rolled Strip.
- E. Uncoated Steel Strip (Structural Components): ASTM A570 Grade 33, 40, 45, or 50, Structural Quality, Hot-Rolled Strip.
- F. Uncoated Steel Strip (Structural Components): ASTM A607 Grade 45 or 50, High-Strength, Low Alloy, Hot-Rolled Strip.
- G. Galvanized Steel Strip: ASTM A653 Grade 40, zinc coated by the hot-dip process, structural quality.
- H. Structural Tubing: ASTM A500 Grade B, cold-formed.
- I. Polyethylene Plastic: ASTM D 1248, Type III, Class B; molded, color-pigmented, textured, impact-resistant, structural formulation; in color indicated or, if not otherwise indicated, as selected by Architect from manufacturer's standard colors.
- J. Fasteners: Vibration-proof, of size and material standard with manufacturer.

2.04 UNDERSTRUCTURE FABRICATION

- A. Frame System:
 - 1. Wheels: Not less than 5" diameter by 1 1/4" with non-marring soft rubber face to protect wood and synthetic floor surfaces, with molded-in sintered iron oil-impregnated bushings to fit 3/8" [10] diameter axles secured with E-type snap rings.
 - 2. Lower Track: Continuous Positive Intergrade System interlocks each adjacent CPI unit using an integral, continuous, anti-drift feature and through-bolted guide at front to prevent separation and misalignment. CPI units at end sections of powered banks and manual sections shall contain a Low Profile Post-Lock LX to lock each row in open position and allow unlocking automatically. Provide adjustable stops to allow field adjustment of row spacings.
 - 3. Slant Columns: High tensile steel, tubular shape.
 - 4. Sway Bracing: High tensile steel members through-bolted to columns.
 - 5. Deck Stabilizer: High tensile steel member through-bolted to nose and riser at three locations per section. Interlocks with adjacent stabilizer on upper tier using low-friction nylon roller to prevent separation and misalignment. Incorporates multiple stops to allow field adjustment of row spacings.
 - 6. Deck Support: Securely captures front and rear edge of decking at rear edge of nose beam and lower edge of riser beam for entire length of section.
- B. Deck System:
 - 1. Section Lengths: Each bank shall contain sections not to exceed 27'-0" in length with a minimum of two supporting frames per row, each section.
 - 2. Nose beam and Rear Riser beam: Nose beam shall be continuously roll-formed closed tubular shape of ASTM A653 grade 40. Riser beam shall be continuously roll-formed of ASTM A653 grade 40. Nose and Riser beam shall be designed with no steel edges exposed to spectator after product assembly.
 - 3. Attachment: Through-Bolted fore/aft to deck stabilizers, and frame cantilevers.
 - 4. Decking: 5/8", AC grade clear-top-coated tongue and groove Southern Yellow Pine; or BC grade polyethylene-top-coated tongue and groove Douglas Fir plywood; both of interior type with exterior glue, 5-ply, all plies with plugged crossbands, produced in accordance with National Bureau of Standards PS-1-97. PanelLam or Poly Deck (high density overlay) is Unacceptable. Plywood shall be cut and installed with top, center and bottom ply grain-oriented from front of deck to rear of deck (nose beam to riser beam). Adjacent pieces shall be locked together with tongue and groove joint from front to rear of deck. Longest unsupported span: MAXAM 26, 21 1/2"
 - 5. Deck End Overhang: Not to exceed frame support by more than 5'-7".

2.05 SEATING FABRICATION - COORDINATE BELOW PARAGRAPHS WITH SEAT SELECTION

A. Plastic Seat System - Courtside Collection XC10 (10")

- Hussey Courtside Collection Series embodies the latest leading edge innovations in linear telescopic seating modules. Courtside seats utilize a harmonious blend of advanced ergonomic principals, architecturally appealing design, safety, value and performance.
 - 1. Seat Modules: 18" long assembled, gas assisted injection-molded, high density, 100% recyclable HDPE (high density polyethylene) modules in monochromatic colors providing, dual textured scuff resistant 10" wide seat surface with 1/2" minimum interlock on seat and face. Unit structural tested to 600 lbs occupant load.
- Courtside XC10 Seat Module:
 - 2. XC10 - 10" Comfort Profile
 - ✓ 10" wide continuous comfort curve style bench seat
 - ✓ Ergonomically contoured forward "waterfall" edge for enhanced spectator comfort and minimization of sensitive pressure point area, regardless of leg positioning.
 - ✓ Fore & Aft contoured seat surface for uniform support and minimize high pressure points under the buttocks.
 - ✓ Seat height ranges from deck to top seat range from 16-1/8" to 18-1/8"
 - ✓ 21-1/2" clear foot space area, regardless of leg positioning.
 - 3. Integrally molded end caps at aisle end locations for clean finished appearance.
 - 4. Integrally molded recess pockets to accept seat number and row letters.
 - 5. Integrally molded rear closure panel at back of seat to allow for "continuous clean sweep" of debris at deck level and minimized visibility of structural ribbing.
 - 6. Seat Attachment: Each plastic seat module shall be securely anchored by a 12 ga steel clamp bracket that provides a steel-to-steel, through bolted attachment to the front nose beam of the bleacher. Attachment eliminates fore / aft movement of the seat module on the nose beam.

2.06 SHOP FINISHES

- A. Understructure: For rust resistance, steel understructure shall be finished on all surfaces with black "Dura-Coat" enamel. Understructure finish shall contain a silicone additive to improve scratch resistance of finish.
- B. Wear Surfaces: Surface subject to normal wear by spectators shall have a finish that does not wear to show different color underneath:
 - 1. Steel nosing and rear risers shall be pre-galvanized with a minimum spangle of G-60 zinc plating.
- 2. Decking shall have use-surfaces to receive both a sealer coat and wear-resistant high gloss clear urethane finish. Optional decking to have 0.030" laminated polyethylene wear surface.
- 3. Injection Molded Courtside seats shall be per manufacturer standard 15 colors.
- C. Railings: Steel railings shall be finished with powder-coated semi - gloss black or optional 15 standard colors to match plastic seat color.

2.07 FASTENINGS:

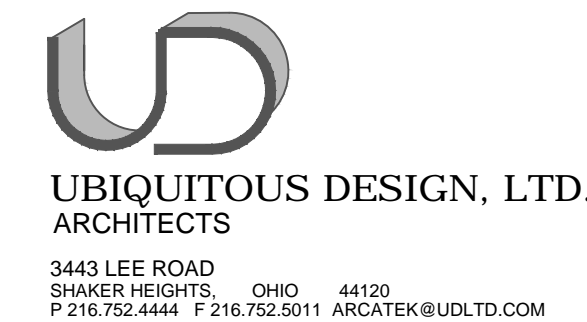
- A. Welds: Performed by welders certified by AWS standards for the process employed.
- B. Structural Connections: Secured by structural bolts with prevailing torque lock nuts, free-spinning nuts in combination with lock washers, or Riv-nuts in combination with lock washers.
- 2.08 ELECTRICAL OPERATION
 - A. Integral Power
 - 1. Default operation shall be with a removable pendant control unit which plugs into seating bank for tethered operator management of stop, start, forward, and reverse control of the power operation. Other modes of operation are optional.
 - 2. Furnish and install Hussey PF(1/2/3/4), an integral automatic electro mechanical powered frame propulsion system, to open and close telescopic seating.
 - a. Each unit for PF(1/2/3/4) is driven by a 1/2 horsepower, 1725 RPM motor.
 - (1)208V 3 Phase:
 - (a)This 1.25 Service Factor motor runs on 208V at 60 Hz and draws a full load current of 2.2 amperes. The required power supply shall be 3 asynchronous phases of 120 Volts each, plus neutral plus ground, each with 20 Amp capacity.
 - (b)This system shall be UL Listed in its entirety (motors, circuit protection, motor controls, user interface, enclosures, conductors and connectors all evaluated and approved for correct sizing and compatibility under maximum rated load on the motors) under UL Product Category FHJU, titled Electrical Drive and Controls for Folding and Telescopic Seating.

- 3. Limit Switches: Furnish and install both open and closed limit switches for the integral power system. The limit switches will automatically stop integral power operation when seating has reached the fully extended or closed position.
- A. Power operation shall utilize a combination of contactors and limit switches to insure the wiring is not energized except during operation. Straight wired electric system is not allowed.
- 4. Electrical: Seating Manufacturer shall provide all wiring within seating bank including pendant control.
 - a. Each unit for PF(1/2/3/4) is power operated by a 1/2 horsepower, 1725 R.P.M., 208 Volts, 50/60 Hz., three phase 1.25 service factor motor. This motor draws a full load current of 2.2 amperes. Power supply required shall be 120/208 volts three phase 5 wire plus ground service with 20 amps. Motors, housing, and wiring shall be installed and grounded in complete accord with the National Electrical Code.
 - b. The electrical contractor shall provide required power source with no greater than 4% voltage drop at the seatings' junction box. The electrical contractor shall perform all wiring connections in junction box that are attached to or a part of the building.

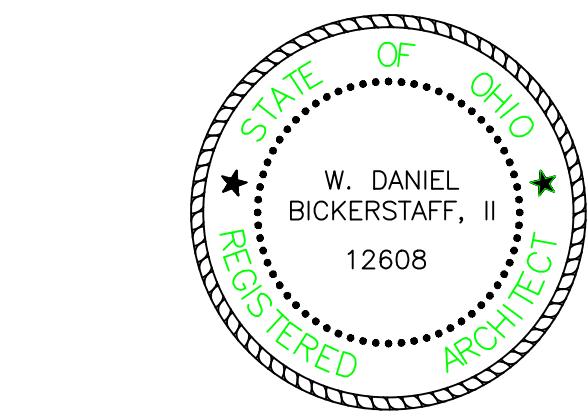


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PERMIT ISSUANCE WDB, II 03.06.2019

ISSUED BY DATE

JOHH HAY HIGH SCHOOL

Interior Alteration

Gymnasium Floor and Bleachers Replacement

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EP&A Approved

X

Gary D. Sautter, Dirp. Chief Capital Projects Date

Consultant Project # DB 03/06/2019
Contractor: WDB, II

TELESCOPING BLEACHERS SPECIFICATIONS

Date: 03.06.2019 Sheet: A7.0

TELESCOPING GYM SEATS SPECIFICATIONS (con.)

PART 1 PRODUCTS (con.)

2.10 ACCESSORIES

Standard Telescopic Seating Accessories

- A. Flex-Row: Provide first row modular recoverable seating units to be utilized by persons in wheelchairs and able-bodied persons. Each Flex-Row unit shall have an unlock handle for easy deployment if wheelchair or team seating access is needed. Unlock handle shall lock the bleacher seats into position when fully opened.
 - 1. Provide a black full-surround steel skirting with no more than 3/4" floor clearance for safety and improved aesthetics.
 - 2. Provide a black injection molded end cap for the nose beam for safety and improved aesthetics.
 - 3. Provide a mechanical positive lock when the Flex-Row system is in the open and used position.
 - 4. Flex-Row modular units are designed to achieve multi-use front row seating to accommodate team seating, ADA requirements and facility specific requirements. Flex-Row units are available in modular units from 2 to 7 seats wide as well as full section widths.
- B. Permanent Handicap Cut-Outs: ARE NOT ACCEPTABLE
- C. Front Aisle Steps: Provide at each vertical aisle location front aisle step. Front steps shall engage with front row to prevent accidental separation or movement. Steps shall be fitted with four non-skid rubber feet each 1/2" in diameter. Blow molded end caps shall have full radius on all four edges. Quantity and location as indicated.
- D. Non-Slip Tread: Provide at front edge of each aisle location an adhesive-backed abrasive non-slip tread surface.
- E. Foot Level Aisles: Provide deck level full width vertical aisles located as indicated.
- F. Intermediate Aisle Steps: Intermediate aisle steps shall be of boxed fully enclosed type construction. Blow molded end caps shall have full radius on all four edges. Step shall have adhesive-backed abrasive non-slip tread surface. Quantity and location as indicated.
- G. Intermediate Automatic Rotating Aisle Handrails: Provide single pedestal mount handrails 34" high with terminating mid rail. Permanently attached handrail shall rotate in a permanently mounted socket for rail storage. Rail shall automatically rotate, lock in the use position, unlock and rotate back to the stowed position as the gym seats open and close. Ends of the handrail shall return to the post, and not extend away from it. Rails having openings to avoid interference with closed decks are not acceptable.
- H. Provide Safety End Curtains fabricated of vinyl-coated 14oz Polyester fabric on open ends of telescopic seating to prevent unauthorized access to the understructure of the bleachers. Curtains to be permanently attached to wall or rear closure panel and secured to individual rows of seating. Curtain to open with seating unit into taugh secure configuration and fold automatically as seating unit closes .
- I. Scorer's Table: one 8' x 18" x 30" scorer's table. Table top shall be Gray textured blow molded polymer 2" in thickness with eased edges for reduced pressure points and improved ergonomics. The Integral 16 Ga. cantilevered comfort C-style leg design provides ample clear space and stability during use and folds for ease of storage on the seating deck. The structure is finished in a speckled gray. The table is portable and may be used on any seating row or flat floor surface
- J. Self Storing End Rails: Provide steel self-storing 42" high above seat, end rail with tubular supports and intermediate members designed with 4" sphere passage requirements

Safety Accessories: Provide the following safety features:

- 1. Coin Round or Roll all edges of exposed metal on top and underneath Bleacher to eliminate sharp edges. Provide safety ease edges, coined edges, or rounded edges for the bleacher understructure components as follows. Diagonal or X braces and deck support or deck stabilizers. Systems provided with sharp edges or corners, to be rounded off in the field and field painted.
- 2. Provide plastic end cap on nose metal at Bank ends to close off edges to prevent spectator injury.
- 3. Provide plastic end cap on back of deck supports on 1st 7 Rows to prevent spectator injury.
- 4. On 1st Row, provide front and side skirt boards any where there is an exposed end to prevent players/balls from sliding underneath the 1st Row.
- 5. Provide metal cover over motor chains and wheels to protect chains from debris and provide a safety switch that if cover is taken off the power system will not work.
- 6. Provide metal end deck cover on each row to cover exposed edge of plywood at the ends of the bleachers.
- 7. Powered frames systems without a metal protective housing, covering drive chain and drive wheels are not permitted under this specification

PART 3 - EXECUTION

3.01 EXAMINATION

- A. Verification of Conditions: Verify area to receive telescoping gym seats are free of impediments interfering with installation and condition of installation substrates are acceptable to receive telescoping gym seats in accordance with telescoping gym seats manufacturer's recommendations. Do not commence installation until conditions are satisfactory.

3.02 INSTALLATION

- A. Manufacturer's Recommendations: Comply with telescoping gym seats manufacturer's recommendations for product installation requirements.
- B. General: Manufacturer's Certified Installers to install telescoping gym seats in accordance with manufacturer's installation instructions and final shop drawings. Provide accessories, anchors, fasteners, inserts and other items for installation of telescoping gym seats and for permanent attachment to adjoining construction.

3.03 ADJUSTMENT AND CLEANING

- A. Adjustment: After installation completion, test and adjust each telescoping gym seats assembly to operate in compliance with manufacturer's operations manual.
- B. Cleaning: Clean installed telescoping gym seats on both exposed and semi-exposed surfaces. Touch-up finishes to restore damage or soiled surfaces.

3.04 PROTECTION

- A. General: Provide final protection and maintain conditions, in a manner acceptable to manufacturer and installer to ensure telescoping gym seats are without damage or deterioration at time of substantial completion.

END OF SECTION

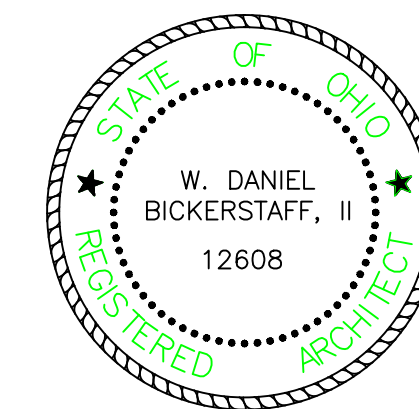


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Interior Alteration

**Gymnasium Floor and
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E.P.A. Approval

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Gary D. Sautter, Dir. Capital Projects Date

Consultant Project # DB Consultant: WDB, II

**TELESCOPING
BLEACHERS
SPECIFICATIONS**

Scale Sheet
Date: 03.06.2019 A8.0

1.1 DESCRIPTION

- A. Related work specified under other sections.**
- 1. CONCRETE SUBFLOORS-SECTION 03_--**
 - a. (Specify or Delete) Slab depression shall be:
 - 2" (51mm) for Standard Profile - SP-11 & SP-111 subfloor with 25/32" (20mm) flooring.
 - 1-5/8" (41mm) for Reduced Profile - RP-111 subfloor with 25/32" (20mm) flooring surface.
 - 1-3/4" (44mm) for Reduced Profile - RP-221 & RP-222 subfloor with 25/32" (20mm) flooring surface.
 - b. The general contractor shall furnish and install the concrete subfloor depressing the slab sufficiently to accommodate the floor system. The slab shall be steel troweled and finished smooth to a tolerance of 1/8" (3mm) in any 10' (3 meter) radius by the general contractor. High spots shall be ground level, and low spots filled in with approved leveling compound by the general contractor to the full approval of the installer (Flooring Contractor).
 - c. Concrete slab aggregate shall be 3/4" (19mm) screen crushed limestone or similar type material (no river gravel or pea gravel), free of curing agents. Concrete shall develop an average of 3,500-PSI (246 Kg/cm) compression after 28 days.
- 2. MEMBRANE WATERPROOFING - SECTION 07_--**
 - a. Concrete subfloors on or below grade shall be adequately waterproofed beneath the slab and at the perimeter walls and on earth side of below grade walls by general contractor using suitable type membrane.
- 3. THRESHOLDS - SECTION 08_--**
- 4. GAME STANDARD INSERTS - SECTION 11_--**

1.2 REFERENCES

- A. MFMA** - Maple Flooring Manufacturers Association

1.3 QUALITY ASSURANCE

- A. Manufacturer**
 1. Manufacturer of resilient flooring shall be a firm specializing in manufacturing products specified in this section.
 2. Manufacturer of flooring and subfloor components must be ISO 14001:2015 Certified.
 3. Basis of design shall be "RezillBase" sports floor system as provided by Connor Sports. www.connorfloor.com, (800-833-7144)
 4. Materials other than those listed must be approved 10 days prior by written addendum. Materials from non-approved manufacturers will not be accepted.
- B. Installer (Flooring Contractor)**
 1. The complete installation of the flooring system, as described in the scope of these specifications, shall be carried out by an experienced installer (Flooring Contractor), and the work shall be performed in accordance with most recent installation instructions of the manufacturer.
 2. Installer (Flooring Contractor) shall be liable for all matters related to installation for a period of one year after the floor has been substantially installed and completed.
- C. Performance Testing**
 1. Floor system shall have been independently evaluated according to established performance standards for the athletic flooring industry.
 2. Compliance of athletic floor standard(s) for specified system as provided by Connor Sports at www.connorsports.com.

1.4 SUBMITTALS

- A. Specification** - Submit Connor RezillBase specification sheets.
- B. Sample** - Submit one sample of specified system, if requested by architect.
- C. Maintenance Literature** - Upon completion of floor installation, send to owner, attendants or individuals in charge and responsible for the upkeep of the building a CARE CARD. This card spells out care and maintenance instructions including temperature and humidity ranges for areas where flooring is installed.

1.5 WORKING CONDITIONS

- A.** The wood flooring specified herein shall not be installed until all masonry, painting, plaster, tile, marble and terrazzo work is completed, and overhead mechanical trades and painters have finished in the wood floor areas. The building shall be enclosed and weatherite.
- B.** The concrete subfloor shall be determined dry by industry standard testing procedures, free of foreign materials and turned over to the installer (Flooring Contractor) broom clean. Moderate room temperature of 65 degrees (18 degrees Celsius) or more shall be maintained a week preceding and throughout the duration of the work. Humidity conditions within the building shall approximate the humidity conditions that will prevail when the building is occupied.
- C.** Permanent heat, light and ventilation shall be installed and operating during and after installation, maintaining a range of temperature and humidity compatible with the expected low and high moisture content of the flooring. The wood moisture content range is determined by the flooring contractor based on the facility's mechanical controls and/or geographical location.
- D.** Flooring must be stored in a dry, well-ventilated area, not in contact with masonry, to acclimate to building conditions and shall be installed at moisture content compatible with the normally expected environmental range of temperature and relative humidity achieved while the facility is occupied.
- E.** General Contractor shall lock floor area after floor is finished to allow proper curing time. If general contractor or owner requires use of gym after proper curing time, he shall protect the floor by covering with non-marring Kraft paper or red rosin paper with taped joints until acceptance by owner of complete gymnasium floor.
- F.** Working conditions as described above shall be followed. Variations and substitutions shall be submitted for approval to the architect who shall advise Connor of the same.

1.6 HUMIDITY CONTROL

- A.** Since all wood flooring will expand and contract as relative humidity varies, it is important to minimize extremes between low and high. Hardwood flooring is manufactured at moisture content most compatible with a 35%-50% relative humidity range. Geographical regions and available mechanicals determine the typical range of temperature and humidity for each facility. Maintaining a 15% fluctuation between highest and lowest average indoor relative humidity provides limited shrinkage and growth. Facility managers should make use of available HVAC systems to prevent excessive tightening and shrinkage of flooring.

1.7 WARRANTY

- A.** Connor warrants that the materials it has supplied will be free from manufacturing defects for a period of one year. The foregoing warranty is in lieu of and excludes all other warranties not expressly set forth herein, whether express or implied in operation of law or otherwise, including, but not limited to, any implied warranties of merchantability or fitness. This warranty is expressly limited to the flooring materials (goods) supplied by Connor. This warranty does not cover floor damage caused (wholly or in part) by fire, winds, floods, moisture, other unfavorable atmospheric conditions or chemical action, nor does it apply to damage caused by ordinary wear, misuse, abuse, negligent or intentional misconduct, aging, faulty building construction, concrete slab separation, faulty or unsuitable subsurface or site preparation, settlement of the building walls or faulty or unprofessional installation of Connor flooring systems.
- B.** Connor shall not be liable for incidental or consequential losses, damages or expenses directly or indirectly arising from the sale, handling or use of the materials (goods) or from any other cause relating thereto, and their liability hereunder in any case is expressly limited to the replacement of materials (goods) not complying with this agreement, or at their elections, to the repayment of, or crediting buyer with, an amount equal to the purchase price of such materials (goods), whether such claims are for breach of warranty or negligence. Any claim shall be deemed waived by buyer unless submitted to Connor in writing within 30 days from the date buyer discovered, or should have discovered, any claimed breach.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Vapor Barrier** - 6-mil (0.2mm) polyethylene.
- B. Subfloor Construction**
 1. SP - Standard Profile (Specify below or Delete)
 - a. SP-11 Factory assembled UL-APA plywood, slotted surface, Connor resilient Rezill pads.
 - b. SP-111 Factory assembled UL-APA plywood, slotted surface, Connor resilient Rezill pads, collared steel drive pin concrete anchorage.
 2. RP - Reduced Profile (Specify below or Delete)
 - a. RP-111 Factory assembled UL-APA plywood, slotted surface, Connor Rezill R4 resilient pads, collared steel drive pin concrete anchorage.
 - b. RP-221 Factory machined APA plywood, full surface, Connor Rezill Cushions, collared steel drive pin concrete anchorage.
 - c. RP-222 Factory machined APA plywood, full surface, Connor Rezill Cushions, sectional steel channel anchorage.
- C. Flooring** (Connor Laylite Maple)
 1. 25/32" X 2-1/4" (20mm x 57mm), Second & Better Grade, Northern Hard Maple Flooring, TGEM, MFMA Grade marked and stamped as manufactured by Connor Sports, Amasa, MI.
 2. Optional sizes and grades (Specify above or Delete) -
 - a. Sizes - 25/32" X 1-1/2" (20mm x 38mm)
 - b. Grades - First Grade, Third Grade
 3. Option (Specify or Delete) - Manufactured flooring profile shall include 1/64" (0.4mm) side edge crush bead.
 4. FSC Certified (Specify or Delete) - Hard maple flooring shall be certified as harvested from managed forest in compliance with the Forest Stewardship Council program.
- D. Fasteners**
 1. Slotted Subfloor Fasteners: (Specify or Delete)
 - a. 1" (25mm) coated staples when installing Standard Profile (SP) subfloor panels.
 - b. 3/4" (19mm) coated staples when installing Reduced Profile (RP) panels.
 2. Flooring Fasteners: (Specify or Delete)
 - a. 2" (51mm) barbed cleats or coated staples when installing Standard Profile (SP) subfloor.
 - b. 1-1/2" (44mm) barbed cleats or coated staples when installing Reduced Profile subfloor.
 3. Concrete: (Specify or Delete)
 - a. For Collared Steel Drive Pins: 2-1/2" (64mm), (or length as dictated by site conditions achieving minimum 900 lbs. (408.6 Kg) pullout strength).
 - b. For 16-ga Hat Channel: 1-1/4" (32mm) long steel drive pins, (or length as dictated by site conditions achieving minimum 900 lbs. (408.6 Kg) pullout strength).
- E. Finish Materials** - Connor oil modified polyurethane seal and finish or equal.
- F. Game Lines** - Game line paint shall be compatible with finish.
- G. Wall Base** - 3" X 4" (76mm x 102mm), heavy duty, molded, vented cove base with pre-molded outside corners.
- H. Protective Floor Cover** (Specify or Delete) Provide court tiles selected from manufacturer's standard dimensions and colors.

PART 3 - EXECUTION

3.1 EXECUTION

- A.** Inspect concrete slab for proper tolerance and dryness. Report any discrepancies to general contractor and architect in writing.
- B.** Concrete slab shall be broom cleaned by general contractor.
- C.** Installer (Flooring Contractor) shall document all working conditions provided in General specifications prior to commencement of installation.

3.2 INSTALLATION

A. Subfloor

1. Cover concrete with poly, sealing and lapping joints a minimum of 6" (152mm).
2. Subfloor Panels:
 - a. Slotted Surface (Specify or Delete) -
 - Install RezillBase subfloor panels at right angle to finish flooring, starting along an end wall, working left to right. Provide 1-1/2" (38mm) expansion voids at perimeter and at all vertical obstructions. Allow 1/4" (6mm) space between ends of abutted panels. Stagger subfloor panels when beginning each row to create a brick pattern throughout the subfloor. Apply and slightly angle subfloor staples 12" (305mm) on center to secure adjacent panels on all ends and sides while maintaining 2-3/8" (60mm) spacing between sides of upper subfloor panels. Install solid blocking at doorways, under bleachers in the stacked position, and below portable goals.
 - b. Full Surface (Specify or Delete) -
 - Arrange subfloor panels in a staggered brick pattern diagonally to finished flooring direction with panel ends offset 48" (1219mm) in alternating rows. Provide nominal 1/4" (6mm) spacing between panel edges and provide 1-1/2" (38mm) expansion voids at perimeter and at all vertical obstructions. Install solid blocking at doorways, under bleachers in the stacked position and below portable goals. Align panels with channel slots perpendicular to flooring direction.
3. Concrete Anchorage:
 - a. Collared Steel Drive Pins (Specify or Delete) -
 - Insert washers and bushings onto drive pins and soundly secure to concrete without overtightening.
 - b. Steel Hat Channel (Specify or Delete)
 - Apply a secure concrete anchorage pin at each channel location.
- B. Maple Flooring**
 1. Install maple flooring by power nailing or stapling approximately 12" (305mm) on center (through double layer when installing slotted subfloor) with end joints properly driven together.
 2. If required, size joints between flooring strips to allow for intermediate expansion in accordance with local humidity conditions.
 3. Provide 1-1/2" (38mm) expansion voids at perimeter and at all vertical obstructions.

3.3 FINISHING

A. Maple Flooring

1. Machine sand with coarse, medium, and fine paper to a smooth, even and uniform surface.
2. Remove sanding dust from entire surface by tack or vacuum.
3. Inspect entire area of floor to ensure that surface is acceptable for finishing, clean and completely free from sanding dust.
4. Apply two (2) coats of approved seal and two (2) coats of approved finish per manufacturer's instructions.
5. Buff and clean floor between coats.
6. Games Lines: Apply game lines as indicated on drawings, between seal and first coat of finish.

3.4 BASE INSTALLATION

- A.** Install vent cove base to walls with base cement or screws. Use pre-molded outside corners and mitered inside corners.

3.5 CLEANING

- A.** Remove excess and waste materials from the area of work.

END OF SECTION 09642



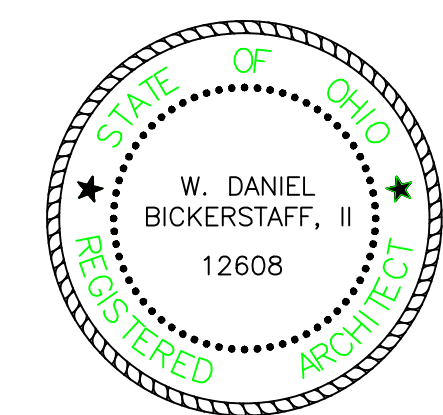
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X	Gary D. Sautter, Dir. Capital Projects	Date
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WOOD GYMNASIUM FLOORING SPECIFICATIONS

Sheet	Sheet
Date: 03.06.2019	A9.0