PROGRAMMING AND PLANNING MEETING #8
December 7, 2017

PROJECT
Dover Area High School
CRA Project No. 3068

In Attendance: Representing:

See Attached Sign-In Sheet

On the above date, a programming and planning meeting was held at the Dover Area School District Administrative Offices to review the interior room layouts for the Dover Area High School project. Pertinent issues and items of discussion are as follows.

LIFE SKILLS
1. Provide 2 teacher stations.
2. Learning kitchen within classroom is acceptable. Provide non-ADA accessible section of counter & locate sink in that section.
3. Provide space for 4 coffee makers (not hard plumbed).
4. Provide space for refrigerator with ice maker.
5. Provide bathroom with shower/tub accessed directly from classroom. Shower is not needed in nurse bathroom. Room to be large enough for assistant.
6. Apartment to have twin bed.
7. Locate washer & dryer in apartment suite (no doors).
8. Need additional shelving and counter space for student use/storage.
9. Provide additional tack board.
10. Space shall have wheelchair access throughout.
11. Add bookshelves.
12. Storage is a concern. CRA suggested the option of mobile storage as a possible solution. DASD agreed that would be acceptable.
13. Add a dishwasher & an electric range.
14. Revise layout to include current tables, hexagon shape in two pieces.
   a. At least one table shall be ADA accessible for a student in a wheelchair. CRA indicated this will be discussed at a later date with furniture discussions.
15. CRA to add an isometric view for the next round of meetings to see the room 3-dimensionally.

MATH
1. Suggested including 2-3 adjustable height desks for students and an adjustable height teacher desk. CRA indicated this will be discussed at a later date with furniture discussions.
2. Prefer marker boards on all three walls.
3. Requested sliding marker boards. DASD to advise if these are to be incorporated in Math classrooms only as there is a premium cost associated with these boards or if all typical classrooms shall be configured the same.
4. Desks should be larger than what is shown (need space for iPad and book or writing surface). CRA indicated this will be discussed at a later date with furniture discussions.

FACULTY PLANNING CENTER
1. Add copier, marker board, sink, refrigerator with ice maker, and microwave.
FACULTY DINING
1. Provide 2 refrigerators with ice makers and multiple microwaves.

SCIENCE
1. Shared science storage rooms accessed off of the Corridors not needed.
2. Biology (6)
   a. Provide 6 lab stations with 4 students per station.
   b. Eliminate second door to Lab.
   c. Provide eyewash and body wash with floor drain with floor drain at teacher station.
   d. Provide emergency shutoff at demo unit for power & water.
   e. Provide a fume hood with direct exhaust in each room. CRA to provide cut sheet to DASD for review.
   f. No gas needed.
   g. Provide H/C water at lab stations and demo.
   h. Provide full size refrigerator to hold 10-15 dissection trays.
   i. Provide outlets at lab stations and tall storage in lab for microscopes. DASD to provide a quantity of microscopes to CRA.
   j. Provide short throw projector with fixed marker board in lieu of portable marker board.
3. General Science (2)
   a. Layout of one lab to mimic Chemistry Lab layout.
   b. Provide base cabinet and counter at exterior wall (wall cabinets between windows).
   c. Eliminate second door to Lab.
4. Physics (1)
   a. Provide 6 lab stations with 4 students per station.
   b. Eliminate second door to Lab.
   c. Provide two sinks along perimeter with hot and cold water.
   d. No sink required in prep room. Two sinks in the lab. All sinks to have hot and cold water.
   e. Provide epoxy resin cover plate for sink at demo unit.
   f. Increase casework storage.
   g. Provide wall cabinets on exterior wall between windows.
   h. Provide ample power around the perimeter.
   i. Provide short throw projector with fixed marker board in lieu of portable marker board.
5. Chemistry (2)
   a. Provide 6 lab stations with 4 students per station.
   b. Eliminate second door to Lab.
   c. Provide sink with H/C water in lab station peninsula.
   d. Provide H/C water to large deep bowl utility type sink at the end of the demo station.
   e. Provide gas to all lab stations and demo station.
   f. Provide emergency shutoff at demo unit for gas, power, & water. Gas and water shutoffs to be separate.
   g. Eliminate tack board and provide more storage.
   h. Provide 8’ of wall space for large periodic table display.
   i. Provide a fume hood with vacuum filtration and direct exhaust in each room. Two hoods in each lab is ideal. CRA to provide fume hood with direct exhaust cut sheet for DASD to review.
   j. Provide short throw projector with fixed marker board in lieu of portable marker board.
k. Locate goggle cabinet on exterior wall.
l. Provide wall cabinets on exterior wall between windows. Wall cabinets shall have glass doors.
m. Provide purge fans in labs and prep rooms.
n. Provide full size refrigerator in prep rooms.
o. Increase size of Chemical storage room. Provide direct exhaust.
p. Prefer lab stations on each side of room with student desks/chairs in middle.
q. Provide de-ionized water in prep room.
r. Provide drying racks in prep rooms.
s. Provide ample size drawers at student lab stations with locks.
t. Provide dishwashers in each lab.
u. Provide 18” deep shelving along one wall of prep room.

SPECIAL EDUCATION

1. Learning Support Classroom
   a. Add file cabinets
   b. Provide some student desks for standing and special chairs for fidgeting.
   c. Provide charging stations (students tend to forget to charge devices).
   d. Provide (2) teacher’s stations at Learning Support. Only (1) desk needed at standard Special Education classrooms.

2. SE Planning Center
   a. Provide space for 6 assistants (dedicated desk for each).
   b. Add copier, marker board, sink, refrigerator with ice maker, and microwave.
   c. Provide space for lateral file cabinets.
   d. Add tables & chairs for small group instruction.
   e. Flip the current SE Planning & regular Faculty Planning locations.

3. Learning Support Classroom (Read 180)
   a. Provide space for 5-7 computer stations. DASD to confirm.
   b. Provide reading area with soft seating.
   c. Add second teacher desk.
   d. Space shall be flexible and adaptable for other programs and shall be designed as general Learning Support Classroom.
   e. Eliminate 6’ marker board at Corridor wall. DASD to confirm.

4. Autistic Support Classroom
   a. 12 students maximum.
   b. Plan for swing in classroom.
   c. Provide mobile divider wall to separate room into smaller areas for student isolation. CRA indicated this will be discussed at a later date with furniture discussions.
   d. Add sink, microwave, and under counter refrigerator.
   e. Flooring to be carpet.
   f. Sensory Room
      i. Typically 1-3 students.
      ii. Finishes to be blue tones.
      iii. Flooring to be carpet.
      iv. Provide padding on walls.
      v. Provide outlets on all walls.
      vi. Lighting to be RGB tunable and dimmable.
      vii. Sidelight at the door is acceptable.

5. Emotional support Classroom & SGI
   a. Fit out similar to Learning Support Classroom.
VISUAL ARTS

1. Move office area to mezzanine and make supply storage area larger for project storage. Access to mezzanine to be from large studio only.

2. Provide 18” deep display cases in corridor adjacent to Art.

3. The following is to be provided in both studios.
   a. Capacity for 28 students.
   b. Entry door to be 4'-0” wide.
   c. Provide floor drains with clay traps.
   d. Provide ample tall storage.
   e. Provide 4 large 2'-0” wide basin sinks (can be grouped together).
   f. Provide area for still life with accent lighting.
   g. Provide 18” x 24” paper drawers for student storage.
   h. Flooring to be sealed concrete with an upgraded sealer.
   i. All receptacles to be GFI.
   j. Provide chalk board.
   k. Overhead camera for Demo station tied into projection.

4. Large Art Studio
   a. Provide space for slab roller (approx. 8’L x 3’W), 6 potter wheels, large kick wheel, storage for 5 easels, 5 large butcher block tables w/locker storage underneath, and 15-20 drafting tables.
      i. Potters wheels shall be located near the wall for power & in close proximity to the sink.
   b. Provide an area for a wall mounted extruder. CRA to confirm size.
   c. Provide 6’-0” long, 2’-0” high wedging counter adjacent to sinks.
   d. Provide 10’-15’ long critique space (tack board floor to 7’-0” high) with accent lighting
   e. Provide shelving for glaze storage separate from student storage.

5. Art Studio
   a. Provide 28 drafting tables.
   b. Provide demo unit with sink, CRA indicated this shall be a fixed unit due to the plumbing requirements.
   c. Provide overhead camera above demo unit (tied to mobile projector).
   d. DASD is open to the option of sinks located in a peninsula off of the casework wall. CRA to research this option.

6. Kiln Room
   a. Provide space for 3 kilns. TBD if each kiln is vented or entire room is vented. DASD to provide kiln information to CRA.
   b. Floor to be sealed concrete.
   c. Provide access from larger studio (4’-0” door).
   d. Mobile clay carts shall be stored in the kiln room.
   e. Delete dry storage in this room.
   f. Provide a long table or counter area near kiln room to set projects on once removed from the kiln.

7. Supply Storage
   a. Provide wet/dry clay cabinets.
   b. Provide larger poster storage.
   c. Provide damp & dry storage.
   d. Heavy duty mobile shelving for up to 200lbs of clay.
MUSIC

1. Choral
   a. Portable risers to accommodate 150 students.
   b. Robe storage shall accommodate 150 robes.
   c. No built in risers, portable risers are acceptable.
   d. Show seating for 25 student chairs & stands
   e. Guitars stored in existing guitar cabinets.
   f. Provide drinking fountain.
   g. Add sink to office.
   h. DASD to provide folio storage requirements.
   i. Provide overhead projector with projection screen in lieu of portable projector.

2. Band
   a. Plan for 140 seated instruments, bass drum, 4 tympani, 6 keyboard/mallet, and 2 snare drums.
   b. Provide overhead projector with projection screen in lieu of portable projector.
   c. DASD to provide list of instruments for storage.
   d. One sink shall remain in the classroom.
   e. DASD to provide folio storage requirements.

3. Provide recording capabilities in Music Tech, Band, Choral, Large practice, one small practice on each side, and Auditorium. Recording to be centrally controlled from Music Tech. Auditorium recording to be also controlled from control booth in Auditorium.

4. Provide uniform storage for 150 choral robes and 190 band uniforms, 190 hats (no shoes). DASD to provide a list of additional items to be stored (i.e. color guard, flags, etc.)

5. Music Tech
   a. Provide hard wired computer stations. Power and data located at the wall with one data drop each.
   b. Provide a cabinet for head end unit. DASD to provide dimensions for the unit.
   c. Quantity of students shown in the layout is acceptable.

6. Piano Lab
   a. Provide floor boxes for keyboard power. DASD to choose keyboard model to be used and inform of any additional rough-in requirements.
   b. Provide power wired connection to student keyboards at teacher station for listening of students’ play.
   c. Provide carpet in room.
   d. Quantity of students shown in the layout is acceptable.

PHYSICAL EDUCATION / HEALTH / ATHLETICS

1. Health Classrooms
   a. Make health classrooms same size.
   b. 30-35 students in each classroom.

2. Main Gymnasium
   a. The motorized overhead divider curtain will run perpendicular to the main courts. The curtain will extend to within 3'-0" of the bleachers when they are in the closed position.
   b. Provide a motorized matt hoist for the competition wrestling matt.
   c. Provide scorer’s table on floor (power, A/V, and scoreboard connection in floor)).
   d. Shift volleyball courts closer together (they will be used for phys ed and practice only and not games so they do not require judges stands).
   e. Layout of side basketball and badminton courts acceptable. Poles will be on moveable stand and do not need floor sleeves.
   f. Provide marks for free-throw lines at all side basketball courts.
g. Recess drinking fountains from gym floor and provide rubberized flooring in alcove.
h. Scoreboard for Basketball, Volleyball, and Wrestling (does not need to display player names).

3. Auxiliary Gymnasium
   a. Provide a motorized matt hoist for the practice wrestling mats. DASD to provide quantity and sizes of mats.
   b. Flooring to be synthetic sports flooring.
   c. Volleyball court to be used for tournaments. Provide scoreboard.
   d. CRA to investigate if the existing IS bleachers can be used in this space. If so, shift volleyball court to accommodate bleachers.
   e. Provide 2 overhead motorized batting cages.

4. Phys Ed Locker Rooms / Office
   a. (6) Desks as shown is acceptable.
   b. The common Phys Ed office with no direct vision to locker rooms was acceptable.
   c. Provide small student desk within locker room.
   d. Lockers to have padlocks (provided by district).
   e. Lockers to be plastic construction.

5. Athletic Locker Rooms / Offices
   a. The following sports will utilize the locker rooms:
      i. Girls Fall – Volleyball (20), Field Hockey (25), Soccer (30), Cross Country (12)
      ii. Girls Winter – Basketball
      iii. Girls Spring – Lacrosse, Softball
      iv. Boys Fall – Soccer, Cross Country
      v. Boys Winter – Basketball, Wrestling
      vi. Boys Spring – Volleyball, Lacrosse, Baseball
   b. Based on the highest demand season (girls fall), 87 lockers are needed.
   c. The individual coaches’ offices with direct vision to locker rooms was acceptable.
   d. Provide for 3 coaches’ desks in each office.
   e. Lockers to have padlocks (provided by district).
   f. Lockers to be plastic construction.

6. Athletic Director Office Suite
   a. Provide file storage within the administrative assistant’s area.

7. Official Locker Rooms
   a. The layout provided was acceptable.

8. Athletic Trainer Suite
   a. Eliminate the whirlpools and low wall.
   b. Provide wall mounted ‘pot gilling’ station for filling of coolers.
   c. Provide shelving for water coolers along the wall.
   d. Provide ice machine (in food service scope of work).
   e. Provide floor drain for wet area where the ice machine and cooler filling is located.
   f. Provide space for stationary bike.
   g. Include file cabinet in office.
   h. Reduce to one cubicle curtain.

9. Weight Room & Cardio
   a. Work with Webster’s Fitness Products Inc. to develop the equipment layouts for these spaces.
   b. Provide open floor space within cardio for cross training.
   c. Provide timer clocks within each space.
ENGLISH / WORLD LANGUAGE / SOCIAL STUDIES
1. Provide larger student desks (enough room for iPad and writing area).
2. English requires more counter space work projects and work area.
3. Plan for mobile lectern that can adjust in height.
4. File storage is a need.

DASD ACTION ITEMS
1. Advise if sliding marker boards are to be incorporated in Math classrooms only as there is a premium cost associated with these boards or if all typical classrooms shall be configured the same.
2. Provide a quantity of microscopes for the Biology Labs.
3. Read 180 requested 5-7 computer stations within the classroom and to eliminate 6’ marker board at Corridor wall, DASD to confirm if these are to be included.
4. Provide Art kiln information.
5. Provide folio storage requirements for Band & Choral.
6. Provide list of instruments for storage.
7. Provide dimensions & information for head end units at Music Tech.
8. Provide additional requirements for color guard uniform/equipment storage.
9. Provide Keyboard information for the Piano Lab.
10. Provide quantity and sizes of wrestling mats @ the Main and Auxiliary Gym.

Respectfully submitted,
CRABTREE, ROHRBAUGH & ASSOCIATES

Scott Cousin
Project Manager

cc: Core Group
# DOVER AREA HIGH SCHOOL

## PROGRAMMING & PLANNING GROUP MEETING

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**Tony Magaro**  
CRA - Arch Coordinator

## Math

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## Science

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## Learning Support

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## Physical Education / Health / Athletics

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## English / World Languages

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Art Room Needs

Large studio:
This is a mixed use space that needs to accommodate a wide variety of materials and will need to accommodate several different class curriculum being taught simultaneously.

<table>
<thead>
<tr>
<th>Drawing and Painting</th>
<th>Ceramics</th>
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<tbody>
<tr>
<td>20 drawing desks</td>
<td>5 large work tables</td>
</tr>
<tr>
<td>5 easel and tambours</td>
<td>Wet and dry storage for projects for 60 students</td>
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<tr>
<td>Two large drying racks</td>
<td>Glaze storage</td>
</tr>
<tr>
<td>Copy stand station</td>
<td>Glazing station</td>
</tr>
<tr>
<td>Mat cutting station</td>
<td>Kiln staging area</td>
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<tr>
<td>2 Large sinks with clay traps</td>
<td>Kiln supply storage</td>
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<tr>
<td>Flat file storage for 60 students</td>
<td>Wedging station</td>
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<tr>
<td>Flammables storage(1)</td>
<td>6 electric pottery wheels</td>
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<tr>
<td>Spray hood</td>
<td>1 kick wheel</td>
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<tr>
<td>Wall critiquing space.</td>
<td>Wheels should be in close proximity to the sinks.</td>
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<tr>
<td>In room display area for student work</td>
<td>Clay extruder</td>
</tr>
<tr>
<td>Staging areas (at least three) for supplies</td>
<td>Pug mill</td>
</tr>
<tr>
<td>Ventilation</td>
<td>Slab rolling table</td>
</tr>
<tr>
<td>Slate chalk board</td>
<td>Staging area for supplies</td>
</tr>
<tr>
<td>Station for large paper cutter</td>
<td>2 large sinks with clay traps</td>
</tr>
<tr>
<td>Vertical storage for canvas</td>
<td>Green ware cart</td>
</tr>
<tr>
<td>Ample directional lighting</td>
<td>2 video projector</td>
</tr>
<tr>
<td>Teacher demo station with overhead video camera and sink</td>
<td>Critique display area</td>
</tr>
<tr>
<td>Video projector</td>
<td>Teacher demo station with overhead video camera and sink</td>
</tr>
<tr>
<td>Photo printer</td>
<td>Video projector</td>
</tr>
<tr>
<td>Light tables</td>
<td>Photo printer</td>
</tr>
<tr>
<td>GFI outlets</td>
<td>Floor drain with clay trap</td>
</tr>
<tr>
<td>Tall Cabinet space in the room for quick access supplies</td>
<td>Slip bins</td>
</tr>
<tr>
<td></td>
<td>GFI outlets</td>
</tr>
<tr>
<td></td>
<td>Slate chalk board</td>
</tr>
<tr>
<td></td>
<td>Tall Cabinet space in the room for quick access supplies</td>
</tr>
</tbody>
</table>
**Small Studio:**
This space is used to teach introductory courses and lecture courses. It needs to be flexible and accommodate various materials at different times.

<table>
<thead>
<tr>
<th><strong>Foundations studio:</strong></th>
<th><strong>Supply closet:</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>• 20 student work stations</td>
<td>• Deep heavy duty shelving rated for 200lbs. with casters</td>
</tr>
<tr>
<td>• Tall Cabinet space in the room for quick access supplies</td>
<td>• Closed heavy duty cabinets with casters</td>
</tr>
<tr>
<td>• Wall critiquing space.</td>
<td>• Step ladder</td>
</tr>
<tr>
<td>• Large drying rack</td>
<td></td>
</tr>
<tr>
<td>• Light tables</td>
<td></td>
</tr>
<tr>
<td>• Teacher demo area with overhead video camera and sink</td>
<td></td>
</tr>
<tr>
<td>• Video camera</td>
<td></td>
</tr>
<tr>
<td>• Student project storage for 100 students</td>
<td></td>
</tr>
<tr>
<td>• Flat file storage</td>
<td></td>
</tr>
<tr>
<td>• 3 Material staging areas</td>
<td></td>
</tr>
<tr>
<td>• 2 large sinks with clay traps</td>
<td></td>
</tr>
<tr>
<td>• Floor drain with clay trap</td>
<td></td>
</tr>
<tr>
<td>• Photo printer</td>
<td></td>
</tr>
<tr>
<td>• GFI outlets</td>
<td></td>
</tr>
<tr>
<td>• In room display space</td>
<td></td>
</tr>
<tr>
<td>• Ample directional lighting</td>
<td></td>
</tr>
<tr>
<td>• Bookcase</td>
<td></td>
</tr>
<tr>
<td>• Slate chalk board</td>
<td></td>
</tr>
</tbody>
</table>
Art Room Needs

General needs:

- Natural light – Big windows
- Display space for flat and three dimensional work
- Concrete floor
- Floor drain with clay trap
- **Color** laser printer
- Directional light fixtures – to offset natural light on overcast days
- Work Space for 25
  - Project storage for student work (3 to 4 sections*max # students)
    - Cubbies for 3D
    - Flat files for Drawing
    - Vertical files for painting
    - 75 storage slots for each room
    - Secure
  - Material storage
    - Large vertical cabinets
    - Deep enough to accommodate 22*24 or larger stock
    - Clay storage needs to be for a least 200 lbs.
    - Secure—all keyed alike
  - Ventilation
  - Critique/lecture space in each room
    - Mobile projector
    - Cork board
    - Should be able to double as in room display
- Office
- Mat cutter space
- Copy stand space
- Kiln room
  - Large enough for two kilns
  - Isolated ventilation
  - Store kiln shelves
  - No volatile surfaces
- Outside access to courtyard or other attractive outdoor space
- Proximity to loading dock
- Proximity to shops
- All material storage should be accessible from the classroom; the instructor should not have to leave the room to get materials.
Foundations room:
- Flat file storage for student work
- 25 drawing desks
- Supply storage
- Lighting
- Drying racks
- This room needs to be the most versatile. It will be used for the intro classes which use a wide range of materials.
- 4 large sinks with settling traps
- Space for light tables

Painting room:
- Copy stand
- Mat cutter space
- Drafting tables
- Rollaway easels and tambours
- Vertical storage for student work
- Spray hood
- Ventilation
- Flammables storage
- Drying racks
- 4 large sinks with settling traps
- Space for light tables

3D room
- Large work tables
- Shelves or large cubbies for student work
- Wet & Dry project storage cabinets
- Slab roller
- Extruder
- Wedging station near sink
- 4-6 pottery wheels near sinks
- GFI outlets
- Heavy weight supply storage.
- Ventilation
- Glaze storage
- Tool storage
Physical Education Department:

A. Auxiliary Gymnasium
   a. Courtliness needed
      i. Basketball
         1. Lines
         2. 2 hoops
      ii. Volleyball
         1. Lines
         2. 2 Pole holes
   iii. List of Equipment
      i. Stereo System
      ii. Clock
      iii. Archery Curtain at one end
      iv. Matted Walls
      v. Scoreboard
      vi. Bouldering wall

B. Main Gymnasium
   a. Competition Courtliness needed
      i. Basketball
      ii. Volleyball
   iii. Practice Courtliness needed
      i. Basketball – As many as can fit
         1. Basketball hoops on both ends
      ii. Volleyball – As many as can fit
         1. Pole holes for nets
      iii. Badminton – As many as can fit
   c. Overhead Curtain Dividers
      i. One Curtain to divide Gym in half
   d. Equipment needed
      i. 2 Scoreboards (one on each end of gym)
      ii. Stereo System with microphone access
      iii. Clocks
      iv. Digital Timer Clocks
      v. Volleyball Poles (as many as there are courts)
      vi. Badminton Poles (as many as there are courts)
   e. Location of water fountains
      i. Water fountain inside boys and girls locker rooms and near exits of gym
      ii. Around/near elevated track

Lockers: Double Tier W-12" by D-15" by H-36" ADA “Pull Handle” option
Boys PE Locker Room
   -300 lockers
Female PE Locker Room
   -300 lockers
C. Miscellaneous Spaces
   a. Equipment In Weight Room
      i. 7 Racks
      ii. Universal Machine (row station, pull station, 3 cable stations)
      iii. Pull up bars
      iv. Dumbbells up to 110lb (3 sets of 10s, 20s, 30s/ 2 sets of 40s, 50s)
      v. Leg press
      vi. Leg curl machine
      vii. Bumper Plates (5 sets 10-45lb)
     viii. Lots of bars
      ix. 10 incline benches
       x. 10 45lb barbells
      xi. 3 Women 35lb barbells
      xii. 3 Platforms for Cleans
     xiii. 3 Manta Rays
      xiv. 2 ropes for push downs
      xv. 2 straight bar accessories for pull downs (angled down at ends)
      xvi. 5 weight belts (varying sizes)
   b. Equipment In Cardio Room
      i. 10+ rowing machines
     ii. 10+ stationary bikes
     iii. 10+ elliptical
    iv. 3+ hand bikes
    v. Padded Plyo Boxes
    vi. Kettle bells (2 sets 20kg, 24kg, 16kg, 12kg)
    vii. Bands stretch/assistant
     viii. Medicine Balls (10 at 20lb, 10 at 14lb, 10 at 10lb,)
      ix. 30 Jump Ropes with hooks to hang on
      x. Large Pull Up Freestanding Rig 14’
     xi. 10 45lb barbells (with wall mount storage)
     xii. 5 women 35lb barbells (with wall mount storage)
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