

DIVISION 1 GENERAL REQUIREMENTS

SECTION 01020

DESIGN PARAMETERS

PART 1 GENERAL

All work identified for the three colleges and their respective areas of improvements shall be completed using quality materials, workmanship, and at a minimum meet current industry standards for the respective trades. All work shall adhere to current governing codes, design guidelines for the respective sport, and shall meet the programming needs as identified in these scoping documents. Each trade and discipline of construction work shall be organized and sequenced as to minimizing negative impact on other work, thus affecting project quality and schedules. It shall be the Contractor's responsibility to verify that all accessibility requirements shall conform to current Title 24 codes upon completion of these improvements.

The drainage system design shall adhere to all jurisdictions that control flood control and stormwater runoff at the respective Colleges. It shall be the responsibility of the DBE to verify that all codes and requirements of responsible agencies are adhered to. It is our preliminary understanding that there is to be no net increase in the rate of discharge of stormwater runoff as detailed by the Sandis Humber Jones report (see Attachment) dated November 6, 2003 .

All final building sizes for restroom and concessions buildings shall be determined by the DBE.

SCOPE DRAWINGS:

Scope Drawings consist of the following, and are part of the Design Parameters:

- L1.0 GENERAL NOTES & LEGEND
- L2.0 SHEET INDEX MAP - CANADA COLLEGE
- L2.1 SHEET INDEX MAP - COLLEGE OF SAN MATEO
- L2.2 SHEET INDEX MAP - SKYLINE COLLEGE

- CAN1 SURVEY PLAN - BASEBALL
- CAN2 SURVEY PLAN - SOCCER
- CAN3 SURVEY PLAN - TENNIS
- CAN4 DEMOLITION PLAN - BASEBALL
- CAN5 DEMOLITION PLAN - SOCCER
- CAN6 DEMOLITION PLAN - TENNIS
- CAN7 GRADING/DRAINAGE/UTILITY PLAN - BASEBALL
- CAN8 GRADING/DRAINAGE/UTILITY PLAN - SOCCER
- CAN9 GRADING/DRAINAGE/UTILITY PLAN - TENNIS
- CAN10 MATERIAL PLAN - BASEBALL
- CAN11 MATERIAL PLAN - SOCCER
- CAN12 MATERIAL PLAN - TENNIS

- CSM1 SURVEY PLAN - BASEBALL
- CSM2 SURVEY PLAN - FIELD EVENTS
- CSM3 SURVEY PLAN - SOFTBALL
- CSM4 SURVEY PLAN - TENNIS
- CSM5 SURVEY PLAN - TRACK
- CSM6 DEMOLITION PLAN - BASEBALL

CSM7	DEMOLITION PLAN - FIELD EVENTS
CSM8	DEMOLITION PLAN - SOFTBALL
CSM9	DEMOLITION PLAN - TENNIS
CSM10	DEMOLITION PLAN - TRACK
CSM11	GRADING/DRAINAGE/UTILITY PLAN - BASEBALL
CSM12	GRADING/DRAINAGE/UTILITY PLAN - FIELD EVENTS
CSM13	GRADING/DRAINAGE/UTILITY PLAN - SOFTBALL
CSM14	GRADING/DRAINAGE/UTILITY PLAN - TENNIS
CSM15	GRADING/DRAINAGE/UTILITY PLAN - TRACK
CSM16	MATERIAL PLAN - BASEBALL
CSM17	MATERIAL PLAN - FIELD EVENTS
CSM18	MATERIAL PLAN - SOFTBALL
CSM19	MATERIAL PLAN - TENNIS
CSM20	MATERIAL PLAN - TRACK
SKY1	SURVEY PLAN - BASEBALL/TENNIS
SKY2	SURVEY PLAN - SOCCER
SKY3	SURVEY PLAN - TRACK
SKY4	DEMOLITION PLAN - BASEBALL/TENNIS
SKY5	DEMOLITION PLAN - SOCCER
SKY6	DEMOLITION PLAN - TRACK
SKY7	GRADING/DRAINAGE/UTILITY PLAN - BASEBALL/TENNIS
SKY8	GRADING/DRAINAGE/UTILITY PLAN - SOCCER
SKY9	GRADING/DRAINAGE/UTILITY PLAN - TRACK
SKY10	MATERIAL PLAN - BASEBALL/TENNIS
SKY11	MATERIAL PLAN - SOCCER
SKY12	MATERIAL PLAN - TRACK

Cañada College

1. Baseball Facility:

- a) *Demolition:* Remove existing fencing, furnishings, and paving where identified on the drawings. Strip and remove turf where identified for field renovations. Crushed asphalt and base material may be used as subbase material, provided it meets geotechnical report guidelines. Utilities shall be salvaged to the point that identified improvements can be made with minimal cost. Note that the primary storm drain line for the college runs through the baseball field along the left field foul line area.
- b) *Drainage:* All identified renovated natural turf areas shall be drained with approved subsurface drainage system (slit sand, sand channel, or equivalent) components, which shall be connected to the on-site storm system. All separate areas of softscape and hardscape shall be self drained (either by at-grade or subsurface means), so that runoff from paved areas is not flowing into adjacent natural turf areas, and vice versa. The exception is that any surface can drain into synthetic turf areas, provided runoff does not allow for migration of materials. All low points shall be provided drainage structures to minimize ponding, unless the area is serving as a retention basin.
- c) *Utilities:* Refer to Scoping Document Drawings for utility systems requirements.
- d) *Grading:* The grading for the field shall be a maximum of 1.0% slope. Grades for hardscape areas shall conform to current codes and acceptable design practices.
- e) *Materials & Layout:* For field renovations, refer to scoping document drawings and specifications. The new accessibility upgrades from the parking lot to the baseball facility shall adhere to current Title 24 codes, and parking lot striping shall be completed per drawings. The new covered and lit three station batting cage shall have a minimum of 15 foot-candle lighting throughout the covered practice area. Refer to additional documents for additional structural requirements for the covered, lighted practice area. The

covered baseball practice structure shall consist of a steel frame with minimum 12' eave height and minimum of 1:12 pitch roof. The structure shall conform to all CBC Title 24 codes and it shall go through the Division of State Architect for review and approval. The perimeter chain link fencing shall be galvanized and fabric shall have a 1-2/3" diamond pattern. Both a vehicular (i.e. minimum 12' wide) and pedestrian doorway shall be provided for the batting cages along the exterior paved walkway for pedestrian and maintenance vehicle access. Metal corrugated roof is acceptable shall be a minimum 26-gauge PBR, with a minimum 20-year warranty. The new foul line fencing and 30 foot tall backstop shall be galvanized chain link fencing with min. four foot tall baseboards. One 8' by 40' long storage container as specified shall be provided.

2. New restroom structure adjacent to the new batting cages shall consist of the following:

1. It shall meet the minimum code requirements for a 200-person capacity event (approximately three fixtures (both water closets and lavatories) each for both male and female as defined by the CBC).
2. It shall have dedicated men's and women's restrooms as well as a storage area for maintenance.
3. A minimum of two exterior drinking fountains mounted on the outside of the building, facing the baseball field.
4. The building shall conform to all CBC Title 24 codes and it shall go through the Division of State Architect for review and approval.
5. Materials are not determined to date, but shall conform to scoping document specifications. The building shall be set up for two outside vending machines (including the appropriate electrical outlets).

Demolition shall be such as necessary to provide sufficient foundation for the anticipated improvements. Utilities to be (at a minimum) sanitary sewer, potable water, storm, and electrical power. This building can either be custom designed or can be a pre-engineered / pre-manufactured building. The building at a minimum must be CMU split-faced block construction or equivalent material.

3. Soccer Field:

a) *Demolition:* Remove existing fencing, furnishings, and paving where identified on the drawings. Strip and remove all organic material from proposed synthetic turf and hardscape subgrades. Abandon and/or remove irrigation components as required. Crushed asphalt and base material may be used as subbase material, provided it meets geotechnical report guidelines. Utilities (including irrigation) shall be salvaged to the point that identified improvements can be made with minimal cost. Note that irrigation mainline extends along northern edge of soccer field towards baseball field.

b) *Drainage:* All synthetic turf areas shall be drained with approved subsurface drainage components, which shall be connected to the on-site storm system. All separate areas of softscape and hardscape shall be self drained (either by at-grade or subsurface means), so that runoff from paved areas is not flowing into adjacent natural turf areas, and vice versa. The exception is that any surface can drain into synthetic turf areas, provided runoff does not allow for migration of materials. All low points shall be provided drainage structures to minimize ponding, unless the area is serving as a retention basin. In addition, bottom of hillsides shall address surface runoff and subsurface water that currently runs into the soccer field area.

c) *Utilities:* Refer to Scoping Document Drawings for utility systems requirements. Install the permanent infrastructure for the existing soccer scoreboard and install with permanent footings. A new looped irrigation mainline shall be provided.

d) *Grading:* The grading for the field shall be a maximum of 0.5% slope. Grades for hardscape areas shall conform to current codes and acceptable design practices.

e) *Materials & Layout:* The synthetic turf for the soccer field shall be a minimum 2" pile height material that conforms to scoping document specifications. The soccer shall have permanent lines as identified on all plans. Perimeter fencing shall be galvanized fabric with galvanized hardware, including rails and posts. A retaining wall (CMU or equivalent acceptable material) shall be installed along the southeastern corner of the field, and shall meet all CBC codes as required. One 8' by 40' long storage container as specified shall be provided.

An Alternate is provided to replace the synthetic soccer field area with an amended native soil field, per scoping documents. This alternate shall include all work associated with this material change.

4. New Tennis Facility (adjacent to the gymnasium):

a) *Demolition:* -Remove all rubberized surfacing and grind down asphalt paving as required to allow for a new two inch (2") paving section and to conform to outer perimeter paving grades. Crushed asphalt and base material may be used as subbase material, provided it meets geotechnical report guidelines. Remove slope material as required to properly build required retainment structures (CMU or equivalent)

b) *Drainage:* A trench drain (or equivalent) system that shall be piped directly into the onsite storm drainage system is required.

c) *Utilities:* Refer to Scoping Document Drawings for utility systems requirements.

d) *Grading:* The grading for the courts shall be maximum of 1.0% slope in any direction, and no crowns of the courts is allowed. All the courts shall be graded in the same manner in terms of direction of slope.

e) *Materials & Layout:* dimensioning of these courts shall conform to USTA layout guidelines. Materials shall be such that the tennis court surfacing shall be installed on top of an asphalt paving and base. Refer to specifications for product requirements. All the tennis courts shall meet current Title 24 accessibility codes upon completion of the improvements. Tennis court fencing shall have galvanized fabric that is of a tennis weave, which means that it shall be 9-gauge steel fabric at a 1-2/3" diamond pattern. All tennis court fence hardware shall be galvanized.

Note: There are two alternates for this area. One is to increase the improvements from four to six courts, and another is to eliminate the work associated with the new four courts entirely.

5. Existing Tennis Facility:

a) *Demolition:* -Remove existing court surfacing and clean courts to the degree required to provide a new tennis court surface.

b) *Drainage:* N/A.

c) *Utilities:* N/A.

d) *Grading:* N/A.

e) *Materials & Layout:* New court surfacing and court striping shall conform to USTA layout guidelines. Refer to specifications for product requirements.

College of San Mateo

1. Football Field & Track Facility:

a) *Demolition:* Remove existing fencing, furnishings, and paving where identified on the drawings (including track surfacing). Strip and remove all organic material from proposed synthetic turf and hardscape subgrades. Abandon and/or remove irrigation components as required. Crushed asphalt and base material may be used as subbase material, provided it meets geotechnical report guidelines. Track paving beneath removed surfacing may be grinded down a minimum of two inches (2") rather than demolished, provided it is structurally stable and will ensure the new track surfacing will meet track tolerances in terms of grading. Utilities shall be salvaged to the point that identified improvements can be made with minimal cost. Note that there are utilities that bisect the track and field area, most notably the site's primary storm line, which is to be protected. Demolish structures as called out on the drawings, including old bleachers.

b) *Drainage*: All synthetic turf areas shall be drained with approved subsurface drainage components, which shall be connected to the on-site storm system. All separate areas of softscape and hardscape shall be self drained (either by at-grade or subsurface means), so that runoff from paved areas is not flowing into adjacent natural turf areas, and vice versa. The exception is that any surface can drain into synthetic turf areas, provided runoff does not allow for migration of materials. All low points shall be provided drainage structures to minimize ponding, unless the area is serving as a retention basin. The inside curb of the track shall have an integrated slot channel drain (refer to specifications). The steeple chase pit, pole vault boxes, discus, hammer throw, and shot put rings, and long/triple jump pits shall all have drainage components to self drain these areas. The renovated storage building at the southwest corner of the track shall receive new gutters and downspouts.

c) *Utilities*: Refer to Scoping Document Drawings for utility systems requirements. A new looped irrigation mainline shall be provided. Sport field lighting is a bid alternate, though infrastructure (i.e. pull boxes, spare conduit, and pull ropes) is base bid work.

d) *Grading*: The grading for the field shall be a maximum of 0.5% slope. All track (including event areas) grades shall conform to track design guidelines and NCAA requirements. Grades for hardscape areas shall conform to current codes and acceptable design practices.

e) *Materials & Layout*: The synthetic turf for the field shall be 2-1/2" tall pile height material that conforms to scoping document specifications. The field shall have permanent football field lines (including yard numerals, hashmarks), and the end zones shall be separate colors. This field shall have permanent logo (the school mascot or equivalent) at midfield. All track and field furnishings and construction methods shall conform to scoping document specifications. Fencing improvements shall be galvanized fabric with galvanized hardware, including rails and posts. The track under the base bid shall be a full-pour track surface as specified, and the alternate track surface shall be Mondo Super X vulcanized rubber surfacing. All track runways shall be a concrete paving as a base. The bleachers shall receive new aluminum bench seating, including mounting hardware. All bleacher upgrades shall conform to current Title 24 codes. Any required deep curbing and / or retaining walls indicated on the plans or required due to the approved design shall conform to all requirements set for in the current Title 24 codes. Two 8' by 40' long storage containers as specified shall be provided.

2. New Press Box structure within the football bleachers shall consist of the following:

1. It shall sliding front windows facing the football field.
2. Building shall have partitions in order to create a minimum of three rooms. The two smaller rooms on the outer edges shall be for coaches. The inner space shall be for VIP's press, announcers / spotters, etc.
3. The building shall be equipped with 18" deep counters along front and rear, and shelving space shall be provided.
4. Communications (i.e. telephone & data) to be provided within all three compartments of the building, as well as electrical. A connection to the College TV station is to be designed into the project, but is not required to be installed in this project. The scoreboard shall be wired to this structure.
5. Press Box shall have a roof deck with railing and interior access for a minimum of 250 s.f. of camera space.
6. The building shall conform to all CBC Title 24 codes and it shall go through the Division of State Architect for review and approval.
7. Materials are not determined to date, but shall conform to scoping document specifications.

Demolition shall be such as necessary to provide sufficient foundation for the anticipated improvements. Utilities are as noted above, and are in the immediate location of the press box. This building can either be custom designed or can be a pre-engineered / pre-manufactured building.

3. New restroom / concessions structure adjacent to the football bleachers shall consist of the following:

1. It shall meet the minimum code requirements for a 2000-person capacity event (approximately ten fixtures (both water closets and lavatories) each for both male and female as defined by the CBC).
2. It shall have dedicated men's and women's restrooms as well as a small storage area for maintenance.

3. A minimum of two exterior drinking fountains mounted on the outside of the building, facing the track.
4. The building shall conform to all CBC Title 24 codes and it shall go through the Division of State Architect for review and approval.
5. Materials are not determined to date, but shall conform to scoping document specifications. The building shall be set up for two outside vending machines (including the appropriate electrical outlets).
6. Concession area shall adhere to health and CBC codes. A separate storage area in the building is required for the concessions.

Demolition shall be such as necessary to provide sufficient foundation for the anticipated improvements. Utilities to be (at a minimum) sanitary sewer, potable water, storm, and electrical power. This building can either be custom designed or can be a pre-engineered / pre-manufactured building. The building at a minimum must be CMU split-faced block construction or equivalent material.

4. Baseball Facility:

- a) *Demolition:* -Strip and remove all organic material from proposed synthetic turf and hardscape subgrades. Abandon and/or remove irrigation components as required. Crushed asphalt and base material may be used as subbase material, provided it meets geotechnical report guidelines. Remove fencing and site furnishings as noted, and grub slopes as identified for improvements. Refer to drawings for additional information.
- b) *Drainage:* All synthetic turf areas shall be drained with approved subsurface drainage components, which shall be connected to the on-site storm system. All separate areas of softscape and hardscape shall be self drained (either by at-grade or subsurface means), so that runoff from paved areas is not flowing into adjacent natural turf areas, and vice versa. The exception is that any surface can drain into synthetic turf areas, provided runoff does not allow for migration of materials. The covered, lighted batting cage area shall be provided drainage beneath the synthetic turf areas that connects into the storm system. All low points shall be provided drainage structures to minimize ponding, unless the area is serving as a retention basin.
- c) *Utilities:* Refer to Scoping Document Drawings for utility systems requirements. A new looped irrigation mainline shall be provided.
- d) *Grading:* The outfield playing surface shall be maximum 1.0% and the slope shall be graded downward towards the outfield fencing. The infield itself shall be graded level (i.e. all bases and home plate shall be at the same grade) and maximum 0.5% slope in synthetic turf infield and foul areas. All grades shall be uniform and consistent. Within perimeter paved and softscape areas, grades shall meet current codes and acceptable design practices. Any areas that result in requiring retainment systems due to approved designs shall conform to current CBC guidelines.
- e) *Materials & Layout:* Synthetic turf for baseball facility (including practice areas) shall be min. two inch (2") tall pile height and shall conform to scoping document specifications. All field markings shall be permanent white lines. The new covered and lit three station batting cage shall have a minimum of 15 foot-candle lighting throughout the covered practice area. Refer to additional documents for additional structural requirements for the covered, lighted practice area. The covered baseball practice structure shall have a minimum 12' eave height and minimum of 1:12 pitch roof. The structure shall conform to all CBC Title 24 codes and it shall go through the Division of State Architect for review and approval. The perimeter chain link fencing shall be galvanized and fabric shall have a 1-2/3" diamond pattern. Both a vehicular (i.e. minimum 12' wide) and pedestrian doorway shall be provided for the batting cages along the exterior paved walkway for pedestrian and maintenance vehicle access. Metal corrugated roof is acceptable shall be a minimum 26-gauge PBR, with a minimum 20-year warranty. The new outfield fence is to be galvanized chain link with windscreen and shall be designed to comply with Title 24. The new 30 foot tall backstop shall be galvanized chain link fencing with min. four foot tall baseboards. The existing baseball dimensions are acceptable and may be the same for the new baseball stadium, but no smaller in any one direction. The press box shall be a 10' x 20' structure, and can be a custom built structure or pre-engineered building. At a minimum, structures shall have electrical power, communications, and data. The scoreboard shall be wired to this structure. The building shall be equipped with 18" deep counters along

front and rear, and shelving space shall be provided. Demolition shall be such as necessary to provide sufficient foundation for the anticipated improvements. One 8' by 40' long storage container as specified shall be provided. The salvaged honorarium plaque for John Noce and a new drinking fountain behind the new backstop shall also be installed.

5. Upper Track & Field Event Area:

a) *Demolition:* Remove existing fencing, structures, furnishings, and paving where identified on the drawings. Kill and incorporate turf into organic profile where identified for field renovations. Abandon and/or remove irrigation components as required. Crushed asphalt and base material may be used as subbase material for paved areas, provided it meets geotechnical report guidelines. Utilities shall be salvaged to the point that identified improvements can be made with minimal cost.

b) *Drainage:* All identified renovated natural turf areas shall be drained with approved subsurface drainage system (slit sand, sand channel, or equivalent) components, which shall be connected to a perimeter perforated system, then to the on-site storm system. All separate areas of softscape and hardscape shall be self drained (either by at-grade or subsurface means), so that runoff from paved areas is not flowing into adjacent natural turf areas, and vice versa. All low points shall be provided drainage structures to minimize ponding, unless the area is serving as a retention basin.

c) *Utilities:* Refer to Scoping Document Drawings for utility systems requirements. All new irrigation system shall be provided within this turf field area, including irrigation controller.

d) *Grading:* The grading for the field shall be a maximum of 1.0% slope. Grades for hardscape areas shall conform to current codes and acceptable design practices.

e) *Materials & Layout:* For field renovations, refer to scoping document drawings and specifications. The new track event area shall adhere to current Title 24 codes and NCAA design guidelines for event areas, with the exceptions being that the landing dimensions shown for the throwing events are adequate as provided by the District. The new perimeter fencing shall be galvanized fabric and hardware. One 8' by 20' long storage container as specified shall be provided.

6. New restroom / concessions structure adjacent to the softball field shall consist of the following:

1. It shall meet the minimum code requirements for a 200-person capacity event (approximately three fixtures (both water closets and lavatories) each for both male and female as defined by the CBC).
2. It shall have dedicated men's and women's restrooms as well as a small storage area for maintenance.
3. A minimum of two exterior drinking fountains mounted on the outside of the building, facing the field.
4. The building shall conform to all CBC Title 24 codes and it shall go through the Division of State Architect for review and approval.
5. Materials are not determined to date, but shall conform to scoping document specifications. The building shall be set up for two outside vending machines (including the appropriate electrical outlets).
6. Concession area shall adhere to health and CBC codes. A separate storage area in the building is required for the concessions.

Demolition shall be such as necessary to provide sufficient foundation for the anticipated improvements. Utilities to be (at a minimum) sanitary sewer, potable water, storm, and electrical power. This building can either be custom designed or can be a pre-engineered / pre-manufactured building. The building at a minimum must be CMU split-faced block construction or equivalent material.

7. Softball Facility:

a) *Demolition:* Remove existing fencing, structures, furnishings, and paving where identified on the drawings. Kill and incorporate turf into organic profile where identified for field renovations. Abandon and/or remove irrigation components as required. Crushed asphalt and base material may be used as subbase material for paved areas, provided it meets geotechnical report guidelines. Utilities shall be salvaged to the point that identified improvements can be made with minimal cost. Remove fencing and site furnishings are noted, and infield fines material may be reused as subbase material, provided it meets geotechnical report guidelines. Refer to drawings for additional information.

b) *Drainage*: All identified renovated natural turf areas shall be drained with approved subsurface drainage system (slit sand, sand channel, or equivalent) components, which shall be connected to a perimeter perforated system, then to the on-site storm system. All separate areas of softscape and hardscape shall be self drained (either by at-grade or subsurface means), so that runoff from paved areas is not flowing into adjacent natural turf areas, and vice versa. All low points shall be provided drainage structures to minimize ponding, unless the area is serving as a retention basin. The two station, covered, lighted batting cage area shall be provided drainage beneath the synthetic turf areas that connects into the storm system.

c) *Utilities*: Refer to Scoping Document Drawings for utility systems requirements. All new irrigation system shall be provided within this turf field area, including irrigation controller.

d) *Grading*: The outfield playing surface shall be maximum 1.0% and the slope shall be graded downward towards the outfield fencing. The infield itself shall be graded level (i.e. all bases and home plate shall be at the same grade) and maximum 0.5% slope in infield and foul areas. All grades shall be uniform and consistent. Within perimeter paved and softscape areas, grades shall meet current codes and acceptable design practices. Any areas that result in requiring retainment systems due to approved designs shall conform to current CBC guidelines.

e) *Materials & Layout*: For field renovations, refer to scoping document drawings and specifications. The new covered and lit two station batting cage shall have a minimum of 15 foot-candle lighting throughout the covered practice area. Refer to additional documents for additional structural requirements for the covered, lighted practice area. The covered baseball practice structure shall have a minimum 12' eave height and minimum of 1:12 pitch roof. The structure shall conform to all CBC Title 24 codes and it shall go through the Division of State Architect for review and approval. The perimeter chain link fencing shall be galvanized and fabric shall have a 1-2/3" diamond pattern. Both a vehicular (i.e. minimum 12' wide) and pedestrian doorway shall be provided for the batting cages along the exterior paved walkway for pedestrian and maintenance vehicle access. Metal corrugated roof is acceptable shall be a minimum 26-gauge PBR, with a minimum 20-year warranty. The new outfield fence is to be galvanized chain link with windscreen and shall be designed to comply with Title 24. The new 20 foot tall backstop shall be galvanized chain link fencing with min. three foot tall baseboards. The softball dimensions shall be modified to 200 feet along foul lines, and center field shall be between 210-215 feet. Existing foul area dimensions to fencing are acceptable. The press box shall be a 10' x 16' structure, and can be a custom built structure or pre-engineered building. At a minimum, structures shall have electrical power, communications, and data. The scoreboard shall be wired to this structure. The building shall be equipped with 18" deep counters along front and rear, and shelving space shall be provided. Demolition shall be such as necessary to provide sufficient foundation for the anticipated improvements. One 8' by 30' long storage container as specified shall be provided.

Note: There is an alternate to provide the necessary work to install a new parking lot adjacent to the softball field. The parking lot's handicap space requirement is based on the seating capacity at the softball facility. This alternate item will require to be submitted for review and approval by DSA, and it will be the DBE's responsibility to adhere to all code requirements. There is also an alternate to replace the amended native soil softball field area within the base bid with a 2" tall synthetic turf field per scoping documents. This alternate shall include all work associated with this material change.

8. Tennis Facility:

a) *Demolition*: -Remove all existing fencing, furnishings, and paving (including surfacing). Crushed asphalt and base material may be used as subbase material, provided it meets geotechnical report guidelines. Utilities shall be salvaged to the point that identified improvements can be made with minimal cost.

b) *Drainage*: A trench drain (or equivalent) system that shall be piped directly into the onsite storm drainage system is required.

c) *Utilities*: Refer to Scoping Document Drawings for utility systems requirements.

d) *Grading*: The grading for the courts shall be maximum of 1.0% slope in any direction, and no crowns of the courts is allowed. All the courts shall be graded in the same manner in terms of direction of slope.

e) *Materials & Layout*: dimensioning of these courts shall conform to USTA layout guidelines. Materials shall be such that the tennis court surfacing shall be installed on top of an asphalt paving and base. Refer to specifications for product requirements. All the tennis courts shall meet current Title 24 accessibility codes upon completion of the improvements. Tennis court fencing shall have galvanized fabric that is of a tennis weave, which means that it shall be 9-gauge steel fabric at a 1-2/3" diamond pattern. All tennis court fence hardware shall be galvanized.

Skyline College

1. Baseball Facility:

a) *Demolition*: -Strip and remove all organic material from proposed synthetic turf and hardscape subgrades. Abandon and/or remove irrigation components as required. Crushed asphalt and base material may be used as subbase material, provided it meets geotechnical report guidelines. Salvage bleachers in good condition that meet current safety guidelines (i.e. rear and side chain link backs above row three). Refer to drawings for additional information.

b) *Drainage*: All synthetic turf areas shall be drained with approved subsurface drainage components, which shall be connected to the on-site storm system. All separate areas of softscape and hardscape shall be self drained (either by at-grade or subsurface means), so that runoff from paved areas is not flowing into adjacent natural turf areas, and vice versa. The exception is that any surface can drain into synthetic turf areas, provided runoff does not allow for migration of materials. The covered, lighted practice baseball area shall be provided drainage beneath the synthetic turf areas that connect into the storm system. All low points shall be provided drainage structures to minimize ponding, unless the area is serving as a retention basin.

c) *Utilities*: Refer to Scoping Document Drawings for utility systems requirements. A new looped irrigation mainline shall be provided.

d) *Grading*: The outfield playing surface shall be maximum 1.0% and the slope shall be graded downward towards the outfield fencing. The infield itself shall be graded level (i.e. all bases and home plate shall be at the same grade) and maximum 0.5% slope in synthetic turf infield and foul areas. All grades shall be uniform and consistent. Within perimeter paved and softscape areas, grades shall meet current codes and acceptable design practices.

e) *Materials & Layout*: Synthetic turf for baseball facility (including practice areas) shall be min. two inch (2") tall pile height and shall conform to scoping document specifications. All field markings shall be permanent white lines. The new covered and lit baseball practice area shall have a minimum of 15 foot-candle lighting throughout the covered practice area. Refer to additional documents for additional structural requirements for the covered, lighted practice area. The two-station bullpen shall have infield fines / clay mixtures and the soft toss and batting cage areas shall have synthetic turf. The covered baseball practice structure shall consist of a steel frame with minimum 12' eave height and minimum of 1:12 pitch roof. The structure shall conform to all CBC Title 24 codes and it shall go through the Division of State Architect for review and approval. The outer perimeter walls shall be minimum 4' tall with galvanized chain link fence extending from the top of the 4' wall to the bottom of the eave height so that it is an enclosed facility. Both a vehicular (i.e. minimum 12' wide) and pedestrian doorway shall be provided for the practice area along the exterior paved walkway for pedestrian and maintenance vehicle access. Metal corrugated roof is acceptable and drainage gutters and downspouts shall be provided and connected into the storm system. The roof and walls shall be a minimum 26-gauge PBR panels, roof, and walls, with a minimum 20-year warranty. The new outfield fence shall match existing (pressure treated wood) material. The existing baseball dimensions that are at Skyline baseball field are acceptable and shall be the same for

the new baseball stadium. Low chain link fences shall be vinyl coated fabric with powder coated hardware, including rails and posts.

2. Tennis Facility:

- a) *Demolition:* -Remove all existing fencing, furnishings, and paving (including surfacing). Crushed asphalt and base material may be used as subbase material, provided it meets geotechnical report guidelines. Utilities shall be salvaged to the point that identified improvements can be made with minimal cost.
- b) *Drainage:* A trench drain (or equivalent) system that shall be piped directly into the onsite storm drainage system is required.
- c) *Utilities:* Refer to Scoping Document Drawings for utility systems requirements.
- d) *Grading:* The grading for the courts shall be maximum of 1.0% slope in any direction, and no crowns of the courts is allowed. All the courts shall be graded in the same manner in terms of direction of slope.
- e) *Materials & Layout:* dimensioning of these courts shall conform to USTA layout guidelines. Materials shall be such that the tennis court surfacing shall be installed on top of an asphalt paving and base. Refer to specifications for product requirements. All the tennis courts shall meet current Title 24 accessibility codes upon completion of the improvements. Tennis court fencing shall have galvanized fabric that is of a tennis weave, which means that it shall be 9-gauge steel fabric at a 1-2/3" diamond pattern. All tennis court fence hardware shall be galvanized.

3. Indoor Soccer Facility:

- a) *Demolition:* Remove all existing fencing, furnishings, and paving (including surfacing). Strip and remove all organic material from proposed synthetic turf and hardscape subgrades. Crushed asphalt and base material may be used as subbase material, provided it meets geotechnical report guidelines. Utilities shall be salvaged to the point that identified improvements can be made with minimal cost.
- b) *Drainage:* All synthetic turf areas shall be drained with approved subsurface drainage components, which shall be connected to the on-site storm system. All separate areas of softscape and hardscape shall be self drained (either by at-grade or subsurface means), so that runoff from paved areas is not flowing into adjacent natural turf areas, and vice versa. The exception is that any surface can drain into synthetic turf areas, provided runoff does not allow for migration of materials.
- c) *Utilities:* Refer to Scoping Document Drawings for utility systems requirements.
- d) *Grading:* The grading for the synthetic turf shall be maximum of 0.5% slope crowned at center of field. Grades for hardscape areas shall conform to current codes and acceptable design practices.
- e) *Materials & Layout:* Synthetic turf for indoor soccer facility shall be min. two inch (2") tall pile height and shall conform to scoping document specifications. All field markings shall be permanent lines (either tufted or inlaid). The new covered and lit practice area shall have internal lighting with metal halide lamps to provide a minimum of 15 foot-candle lighting throughout the covered practice area. Refer to additional documents for additional structural requirements for the covered, lighted practice area. The structure itself shall consist of a steel frame with minimum 30' eave height and minimum of 1:12 pitch roof. The building shall conform to all CBC Title 24 codes and it shall go through the Division of State Architect for review and approval. The outer perimeter walls shall be minimum 4' tall with galvanized chain link fence extending from the top of the 4' wall to the bottom of the eave height so that it is an enclosed facility. Both a vehicular (i.e. minimum 12' wide) and pedestrian doorway shall be provided for the indoor facility along the exterior paved walkway for pedestrian and maintenance vehicle access. Metal corrugated roof is acceptable and drainage gutters and downspouts shall be provided and connected into the storm system. The roof and walls shall be a minimum 26-gauge PBR panels, roof, and walls, with a minimum 20-year warranty. Under base bid, the entire interior will be synthetic turf with at least one intermediate net running the entire length of the interior of the structure, which is approximately 180'. This netting system

shall be removable and shall extend from top of roof down to the field level. In the alternate, the synthetic turf material will be reduced in scope and the remaining perimeter of the synthetic turf area will be asphalt paving. The border of the synthetic turf and asphalt paving shall be an interior 4' high wall that will consist of either plastic or timber. The interior wall shall conform to recommendations by FUTSAL, the indoor soccer governing body. All lighting shall be of the same requirements as under base bid.

4. New restroom structure adjacent to the indoor soccer practice area shall consist of the following:

1. It shall meet the minimum code requirements for a 500-person capacity event (approximately five fixtures (both water closets and lavatories) each for both male and female as defined by the CBC).
2. It shall have dedicated men's and women's restrooms as well as a storage area for maintenance.
3. A minimum of two exterior drinking fountains mounted on the outside of the building, facing the soccer field.
4. The building shall conform to all CBC Title 24 codes and it shall go through the Division of State Architect for review and approval.
5. Materials are not determined to date, but shall conform to scoping document specifications. The building shall be set up for two outside vending machines (including the appropriate electrical outlets).

Demolition shall be such as necessary to provide sufficient foundation for the anticipated improvements. Utilities to be (at a minimum) sanitary sewer, potable water, storm, and electrical power. This building can either be custom designed or can be a pre-engineered / pre-manufactured building. The building at a minimum must be CMU split-faced block construction or equivalent material.

5. Soccer Field:

a) *Demolition:* Remove existing fencing, furnishings, and paving where identified on the drawings. Strip and remove all organic material from proposed synthetic turf and hardscape subgrades. Abandon and/or remove irrigation components as required. Crushed asphalt and base material may be used as subbase material, provided it meets geotechnical report guidelines. Utilities shall be salvaged to the point that identified improvements can be made with minimal cost.

b) *Drainage:* All synthetic turf areas shall be drained with approved subsurface drainage components, which shall be connected to the on-site storm system. All separate areas of softscape and hardscape shall be self drained (either by at-grade or subsurface means), so that runoff from paved areas is not flowing into adjacent natural turf areas, and vice versa. The exception is that any surface can drain into synthetic turf areas, provided runoff does not allow for migration of materials. All low points shall be provided drainage structures to minimize ponding, unless the area is serving as a retention basin.

c) *Utilities:* Refer to Scoping Document Drawings for utility systems requirements. A new looped irrigation mainline shall be provided. Sport field lighting is a bid alternate, though infrastructure (i.e. pull boxes, spare conduit, and pull ropes) is base bid work.

d) *Grading:* The grading for the field shall be a maximum of 0.5% slope. Grades for hardscape areas shall conform to current codes and acceptable design practices.

e) *Materials & Layout:* The synthetic turf for the soccer field shall be a minimum 2" pile height material that conforms to scoping document specifications. The soccer shall have permanent lines as identified on all plans. Perimeter fencing shall be vinyl coated fabric with powder coated hardware, including rails and posts.

6. Track & Field Area:

a) *Demolition:* Remove existing fencing, furnishings, and paving where identified on the drawings (including track surfacing). Strip and remove all organic material from proposed synthetic turf and hardscape subgrades. Abandon and/or remove irrigation components as required. Crushed asphalt and base material may be used as subbase material, provided it meets geotechnical report guidelines. Track paving beneath surfacing and track curbing shall be salvaged and reused, provided it is structurally stable and will ensure the new track surfacing will meet track tolerances in terms of grading tolerances. Utilities shall be salvaged to the point that identified improvements can be made with minimal cost. Note that there

are utilities that bisect the track and field area, most notably the site's primary storm line, which is to be protected.

b) *Drainage*: All synthetic turf areas shall be drained with approved subsurface drainage components, which shall be connected to the on-site storm system. All separate areas of softscape and hardscape shall be self drained (either by at-grade or subsurface means), so that runoff from paved areas is not flowing into adjacent natural turf areas, and vice versa. The exception is that any surface can drain into synthetic turf areas, provided runoff does not allow for migration of materials. All low points shall be provided drainage structures to minimize ponding, unless the area is serving as a retention basin. The inside curb of the track does not require an internal drainage system, so it can drain into the synthetic turf (note: if the alternate is selected and this field changes to natural turf, a trench drain at the inside track curb will be required). The D-zones will likely require drainage at the edge of the inside track curb due to grading requirements.

c) *Utilities*: Refer to Scoping Document Drawings for utility systems requirements. A new looped irrigation mainline shall be provided. Sport field lighting is a bid alternate, though infrastructure (i.e. pull boxes, spare conduit, and pull ropes) is base bid work.

d) *Grading*: The grading for the field shall be a maximum of 1.0% slope. All track grades shall conform to track design guidelines and NCAA requirements. Grades for hardscape areas shall conform to current codes and acceptable design practices.

e) *Materials & Layout*: The synthetic turf for the field shall be a minimum 2" pile height material that conforms to scoping document specifications. The field shall have permanent soccer field lines as identified on all plans. This field shall have permanent logo (the school mascot or equivalent) at midfield. All track furnishings and construction methods shall conform to scoping document specifications. Fencing improvements shall be galvanized fabric with galvanized hardware, including rails and posts. For the track lighting requirements along the eastern straight away for the bollard lighting, minimum foot candles shall be two foot-candles for a spread of at least 10' outside the bollard locations in all directions. The stairway west of the track shall be lit with bollard lighting (minimum 1-1/2 foot-candles) going up to the soccer field level. One 8' by 40' long storage container shall be provided for this area.

Note: An Alternate is provided to replace the synthetic field area within the track with an amended native soil field per scoping documents. This alternate shall include all work associated with this material change.

PART II DISTRICT BUILDING STANDARDS

SMCCCD BUILDING STANDARDS		
description	location where condition exists	specific information
4' fluorescent lamps	Districtwide	Philips Alta
Acoustic Ceiling repaint	Districtwide	Kelly-Moore flat wall paint color: Acoustic White
Acoustic Ceiling tiles	Districtwide	USG OMNI Auratone 345 2' x 4'
Acoustic Ceiling tiles	Districtwide	USG #22411 Radar 2' x 4'
Building Data and Telecom Standards	Districtwide	Category 6;cabling terminations IEEE568B
cable	Districtwide	Category 6
cabling terminations	Districtwide	IEEE568B
Carpet Adhesives	Districtwide	peel & stick
Carpet tile	Districtwide	Collins & Aikman, Infinity, color: Kaleidoscope
carpet, 6' roll or 12' roll	Districtwide	Collins & Aikman, Infinity, color: Kaleidoscope
ceiling tile	Districtwide	USG OMNI Auratone 345 2' x 4'
ceiling tile	District Office in Sequoia Conference Room	USG #22411 Radar 2' x 4'
ceramic floor tile	Skyline Student Services spec	Pattern: 2x2 mosaic tiles, cut for standard 12 x 24 sheets into 4x4 squares; Dal Tile D335 Porcelain 50% D014 Light Gray 25% D317 White 12.5% D039 Danube 12.5%
ceramic tile	Skyline CALT spec Note: unclear why this floor does not match standard set in Student Services; Charlie Sakamoto to advise.	Dal Tile Gray DK-1466 Crème DK-1427 Mauve DK-1498 Fleece DK-1415
ceramic tile grout	Districtwide	Poly-Blend™ No.117, Taupe
ceramic wall tile	Skyline Student Services spec	Dal Tile 0135 Almond 4-1/4"

SMCCCD BUILDING STANDARDS		
description	location where condition exists	specific information
data	Districtwide	Terminate voice and data cabling using Category 6 - 110 blocks/patch panels and according to 568B standards
door locksets	Skyline	Schlage Rhodes D-Series, 626 Finish, EF keyway, 6-pin
door locksets	CSM	Schlage Rhodes D-Series, 626 Finish, F keyway, 6-pin
door locksets	Canada	Schlage Rhodes D-Series, 626 Finish, E keyway, 6-pin
exterior lighting		obtain District standard product spec from mccleand@smccd.net
exterior paint	rooftop equipment	Kelly-Moore 1200 Weathershield Exterior Flat Finish Color #216 Malibu Beige
exterior paint	Modular Buildings	field color: Kelly-Moore Paints, 27 Bone trim color: Kelly-Moore Paints, Oxford Brown
exterior paint	Canada College	darkest color on trim: Kelly-Moore 1200-121 "Vedure" (1-gallon color formula is L-18-2) medium color on walls: Kelly-Moore 1200-121 (custom color, 1-gallon formula is C20, L32, D1) light color on trim, parapets: Kelly-Moore 1250-121 (custom color, 1-gallon formula is C5, L14, D-1/2)
exterior paint	Canada College Building 3 Flyhouse	medium color on flyhouse walls: Kelly-Moore 1128-100 (custom color, 5-gallon formula is C40, LY16, D2)
exterior paint	Canada College exterior doors	Kelly-Moore 1700 Color #150 Mallard Green
exterior paint	CSM colonnades, columns & fascias	Kelly-Moore 121 color formula for 1-gallon: C1-1/2, L5
exterior paint	CSM colonnades, ceilings	Kelly-Moore color formula for 1-gallon: B2, C6, L36
FACP	Skyline, District Office	Cerberus Pyrotronics system
Fire alarm Systems	Districtwide	Cerberus Pyrotronics system
Horizontal Blinds	Districtwide	for classrooms: Levelor Riviera DustGuard 2" school blinds, color alabaster
Horizontal Blinds	Districtwide	for offices: Levelor Riviera 1" horizontal blinds, color Alabaster
interior paint	Skyline Building 8 door trim	Kelly-Moore Paints 1700 Kel-Guard Enamel color: 57 Rich Brown
interior paint	CSM Building 18	doors: Kelly-Moore, Café Kahlua, KM588-D frames: Kelly-Moore, Rare Earth, AC88-N
interior paint	CSM interior handrails	Kelly-Moore 1250 Acry-Lustre Acrylic Semi-Gloss color: 174 Charcoal Gray
interior paint	CSM interior handrails, Building 19 only	Kelly-Moore 1250 Acry-Lustre Acrylic Semi-Gloss color: AC17-N Rusty Iron

SMCCCD BUILDING STANDARDS		
description	location where condition exists	specific information
interior paint	CSM ceilings & acoustic tile on walls	Kelly-Moore flat wall paint color: Acoustic White
interior wall paint	Districtwide	Kelly-Moore Paints in 27 Bone, 550 finish
interior wall paint	CSM Planetarium	Kelly-Moore Paints 1170-555 Neutral Base Color Formula: 01-045
interior wall paint	CSM Choral Room Ceiling	Kelly-Moore Paints 1240-407 Black
Painting - Interior	Districtwide	Kelly-Moore Paints in 27 Bone, 550 finish
PCC walkways	Districtwide	stiff broom finish, min. 5' width UON
Roll Carpet	Districtwide	Collins & Aikman, Infinity, color: Kaleidoscope
signage	Skyline	specify that color must match (E) signage in building 2, 2nd floor
signage	Skyline	specify sign similar to type E that says "Janitor Closet" for door 14, the door into room 2115 and the door into room 130.
signage	Skyline	specify sign similar to type E that says "Electrical Room" for doors into rooms 2108H, and door 15 if that door must remain - see note above
signage	Skyline	specify sign similar to type E that says "Elevator Machine Room" for door into elevator equipment rooms 1 and 2
Site Lighting - poles and lamps, voltages	Districtwide	obtain District standard product spec from mccleand@smccd.net
T-8 Tubes	Districtwide	4' fluorescent lamps Philips Alta
Topset base	Districtwide	Burke Ironwood 523P, 4"
VCT	Districtwide	Armstrong, Standard Excelon, Imperial Texture, 51839 Fortress White
vinyl baseboard	Districtwide	specify Burke Ironwood 523P, 4" topset base
Vinyl Composition Tile		Armstrong, Standard Excelon, Imperial Texture, 51839 Fortress White
window coverings	Districtwide	for classrooms: Levelor Riviera DustGuard 2" school blinds, color alabaster for offices: Levelor Riviera 1" horizontal blinds, color Alabaster
X-Ray requirement	where coring through concrete roofs, walls, floors	Contractor shall X-Ray through concrete walls, floors, ceilings, roofs and other structures prior to cutting to ensure no existing utilities will be damaged by cutting or coring.

PART III DISTRICT PLANT PALETTE

TREES - RECOMMENDED	Logic and comments
Sequoia sempervirens (Redwood)	Watch the height. For variety, consider Dawn Redwood (deciduous), would be valuable for biology classes - "living fossils".
Pinus pinea (Stone Pine)	Watch the size - they get large
Coast Live Oak (Quercus agrifolia)	
California Red Bud	
Star Magnolia (Magnolia stellata)	Good in the right place, like next to the building. Not drought tolerant
Saucer Magnolia (Magnolia X soulangeana)	does well at CSM, not drought tolerant. Good for biology classes to study.
Rhododendron	
Lagerstroemia sp. (Crepe Myrtle)	Good trees, great fall color, nice flowers for late summer-fall. Critical to get varieties resistant to Powdery Mildew fungus.
Flowering pear (Pyrus Calleryana)	
Cercis Occidentalis (CA Redbud)	Excellent small tree.
TREES - Allowed for limited use	Logic and comments
Krauter Vesuvius - Purple plum	They don't live that long, but they do have some nice features.
Cedrus sp. (Cedar)	
Cherry, no fruit	
evergreen ash	Grow too fast.
Chinese Pistache (Pistacia Chinensis)	Subject to Verticillium fungal wilt so keep off lawns.
Melaleuca Quinquenervia	In lieu of olive – not deciduous, very attractive bark. Severely damaged in the 1990 freeze.
Japanese Maple (Acer Palmatum)	Nice trees in the right place protected from drying winds. Not drought tolerant.
Red Japanese Maple (Acer Palmatum Atropupureum)	
TREES - Not permitted	Logic and comments
Monterrey Pines	Lost too many large branches and entire trees in storms, they are a liability here.
Platanus	Messy, do not use even if resistant to Anthracnose fungus.
Canary Island Pine	Too large.
Ash Raywood	Roots invasive – can also be short-lived.
Olive trees, including fruitless	
CA Sycamore	
Eucalyptus	
Evergreen Ash	

SHRUBS - RECOMMENDED	Logic and comments
Nandina Domestica	Do well at CSM, best with a little extra water in summer.
Osmanthus X Burkwoodii	O. delavayi, which the deer haven't bothered.
Melaleuca shrub	
Natal Plum	Tender to cold, but otherwise a good plant.
Coffee berry	Excellent native, naturally grows in coastal hills.
Toyon	Excellent, red berries in Nov-Dec. Slowly invading the campus from surrounding hills.
Camellia	Regular water, but should do well.
Smoke bush (Cotinus Coggygria)	Excellent.
SHRUBS - Allowed, limited use	Logic and comments
Juniper (Juniperus sp.)	Size specific, only in low profile areas, limited but very low maintenance, low water
Pittosporum Tobira	Limited since the deer seem to like these
Oleander	Blight can be a problem.
Cotoneaster	Very drought tolerant, few diseases, attractive foliage.
Escolloneaus 'Compacta'	Drought tolerant. I don't know how the deer are with this – deer do like this one.
Arbusts Unedo (strawberry)	Excellent. Plant where fruit will not fall on the sidewalk.
Ferns	
Princess Flower	Big and lanky, but very showy. Maybe as a background plant.
SHRUBS - Not allowed	Logic and comments
No coyote bush	

GROUNDCOVERS - RECOMMENDED	Logic and comments
1 gallon and flats	
Gazania	Trailing seems to do well here.
Rosemerry Prostate	Excellent.
Armeria sp.	Small-scale groundcover, but does very well here.
Vinca major and minor	Does well.
Ornamental grasses	Acceptable.
Salvia – S. leucophylla	S. leucophylla does well here.
Carpet roses	
GROUNDCOVERS - Limited Use	Logic and comments
Cotoneaster	
Knotweed (Persicaria sp.)	Might be a bit weedy, depends on the situation.
Lavender, French or English	Only 3-5 years useful life in the landscape
Sarcococa	slow but good. Needs water.
Lirope	Best in part shade where snails shred it.
GROUNDCOVERS - Not Permitted	Logic and comments
Strawberry	
Ivy	

END SECTION