

Criteria Document

12.21.2021// San Mateo-Foster City School District

SYNTHETIC TURF PROJECTS **AT FIVE CAMPUSES**

Audubon ES, Bayside Academy, Brewer Island ES, Fiesta Gardens ES, George Hall ES



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Acknowledgments

San Mateo-Foster City School District

Synthetic Turf Projects at Five Campuses San Mateo-Foster City School District December 21, 2021

The Criteria within this document is a result of the collective efforts of the leaders and faculty as listed:

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Executive Summary

Project Description

San Mateo-Foster City School District intends to replace certain grass areas with synthetic turf on five school campuses, including Aubodon Elementary school, Bayside Academy, Bay Island Elementary School, Fiesta Gardens Elementary School and George Hall Elementary School, through a Design Build project delivery process.

This Design Build Project consists of demolition of grass areas and tree removal in the present locations of existing areas and installation of synthetic turf in these areas. Additionally, some supplemental shrub planting and irrigation in some of these areas are included. New concrete curbing and/or concrete valley gutters will be installed around the synthetic turf for edge conditions where existing edge conditions do not support the installation of new synthetic turf. New AC pavement will be used to conform the existing AC pavement with the new concrete curbing. Grading and drainage improvements will be conducted to ensure stormwater is directed towards storm drain inlets.

The main goals are:

- To provide a safe and smooth field for ball playing
- To eliminate geese droppings and nuisances
- To minimize mowing and maintenance of grass areas

The existing accessibility is to be verified and upgraded accordingly to comply with the most "current" California Building Code on path of travel from accessible parking stalls to the field areas, student and staff restrooms, drinking fountain along the path of travel, and required number of accessible parking stalls for DSA Access approval. Accessible path of travel is a barrier-free access route without abrupt level changes exceeding 1/2" beveled at 1:2 maximum slope or vertical level changes not exceeding 1/4" maximum and at least 48" in width. Surface is stable, firm and slip resistant. Cross slope shall not be steeper than 1:48 and slope in direction of travel shall not be steeper than 1:20. Accessible path of travel shall be maintained free of overhanging obstructions to 80" minimum, and free of objects protruding more than 4" from the wall, above 27" and less than 80" above the floor or ground. Maximum drop between finished grade and the top of the path of travel shall not exceed 4".

About the District

City, California. joy.

and emotional potential.

The San Mateo-Foster City School District is located at 1170 Chess Dr., Foster City, California. The school district serves San Mateo and Foster

The school district includes twenty-one schools: three middle schools (Grades 6-8), sixteen elementary schools (K-5) and two schools with all grades (K-8). The schools educate approximately 11,000 students in preschool through eighth grades in twenty-one outstanding schools. The vision of the school district is to educate, inspire and empower every student in every school every day to live, lead and learn with integrity and

The mission of the school district is to provide rigorous, high quality and equitable education while partnering with students' families and community to support all students to achieve their full academic, social

The school district believes school facilities and grounds are vital resources which should be used to foster mind and body wellness and development as well as academic performance.



Civil

Play Field and Landscape Areas

DB team must maintain orientation and dimensions of existing field and will be a full synthetic turf field with base and drainage. Refer to civil drawings.

- -Pattern to mimic freshly mowed lawn. Refer to specs section. DBE team shall offer the district color options to select from.
- -DBE team shall confirm with the district what play field striping will be utilized. Site plan graphic for soccer and kick ball is
- for reference only.
- -Concrete edge bands
- -Irrigation system as synthetic turf

Existing Topography

Audubon Elementary School

Existing site consists of two (2) grass fields (approximately 62,817) SQFT) bordered by a combination of AC pavement, concrete sidewalk, and concrete curbing. The fields both have irrigation systems with separate controllers. Storm drain inlets are located round the perimeter except for one located in the center of the larger field which is in a low spot.

Bayside Academy

Existing site consists of two (2) grass fields (approximately 116, 064 SQFT) bordered by AC pavement and concrete sidewalk. Both fields have separate irrigation systems with controllers. The larger of the two

fields has storm drain inlets located on the east and southeast side of the field. The smaller filed does not have any storm drain inlets close by. The large field has a high point in middle of the field and slopes outward.

Brewer Island Elementary School

Existing site consists of a large field (approximately 35,486 SQFT) and is bordered by concrete curb and curb & gutter. A fence borders the northwest and southwest edge. The large field is mounded roughly 3.5-feet higher than the surrounding area with steep slopes around the edges. The additional area to receive new synthetic turf is vegetated with a flush concrete curb along the northwest and southwest edge. A fence borders the northeast and southeast edge. Storm drains are located along the perimeters of the two areas.

Fiesta Gardens Elementary school

Existing Site has one large field (approximately 21,047 SQFT) and is bordered by a concrete flush curb on all sides except for the northwest side which has a concrete valley gutter. The filed has a crown in the center and slopes out to the edges. Storm drains are located around the perimeter except for the north side. The field is irrigated and the control boxes are all located on the north side of the field.

George Hall Elementary School

Existing site has one large field and one small lawn

(approximately 19,604 SQFT combined). The large field is bordered by a concrete flush curb and the small lawn area is bordered by AC pavement, a concrete ramp, and a fence along the entire west edge. The north edge of the small lawn is bordered by an existing building. The large field slopes from left to right with a single storm drain located at the northeast corner. The small lawn area does not have any storm drain inlets located nearby. The area slopes from right to left. The large filed has an irrigation system with all the control boxed located on the north edge of the filed.

Site Demolition

Audubon Elementary School

The existing lawns shall be removed and the irrigation systems shall be cut, capped, and abandoned in place. The AC pavement along the west, south, and southwest side of the large field shall be sawcut and a portion of the AC pavement shall be removed from improvements. The existing storm drain inlet in the middle of the large field shall be removed. The bender board located within the small lawn area shall be removed, but the existing trees shall remain.

Bayside Academy

The existing lawns shall be removed and the existing irrigation system for the lawn shall be cut, capped, and abandoned in place. The AC pavement along the south side of the field shall be sawcut and a portion of AC pavement shall be removed for improvements.

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02

Brewer Island Elementary School

The existing lawn and vegetation shall be removed. The existing irrigation system shall be cut, capped, and abandoned in place. The existing curb along the east edge of the field shall be removed. The AC pavement shall be sawcut and a portion shall be removed for improvements. The large portion of soil from the field shall be off hauled and taken to Audubon Elementary School.

Fiesta Gardens Elementary School

The existing lawn shall be removed, and the existing irrigation system shall be cut, capped, and abandoned in place.

George Hall elementary School

The existing large field shall be stripped of all vegetation and the existing irrigation system shall be cut, capped, and abandoned in place. The small lawn area shall be stripped of all vegetation. The existing AC pavement along the southeast edge shall be sawcut and a portion of AC pavement shall be removed to allow the installation of new curbing.

Grading

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Audubon Elementary School

The large field area shall receive a large portion off haul from Brewer Island Elementary School to establish a crown in the middle of the field. Everything shall be sloped away from the crown that is to be established and water shall be directed towards the storm drain inlets.

Bayside Academy

The existing crown in the field shall be maintained. Everything shall be grades and slopes towards the existing storm drain inlets to ensure positive drainage patterns.

Brewer Island Elementary School The field shall be cut down and the off haul shall be taken to Audubon Elementary school to building the field up. A new crown shall be established in the middle and everything shall be sloped away ensuring storm water is directed towards the existing inlets around the perimeter.

Fiesta Gardens Elementary School

The existing crown shall be maintained and the existing drainage pattens shall be maintained.

George Hall Elementary School

The existing drainage patten shall remain. Everything shall be sloped from left to right.

Drainage

Audubon Elementary School

A new storm drain drop inlet shall be installed at the southeast corner of the large field to collect storm water. The new inlet shall be connected to an existing inlet approximately 50-feet to the south. A new 6" diameter HDPE pipe hall be installed for the connection.

Brewer Island Elementary School

Fiesta Gardens Elementary School

George Hall Elementary School

No storm drain improvements.

Sanitary Sewer System

campuses.

Domestic Water

campuses



A new concrete valley gutter shall be installed along a portion of the southeast side to direct water towards the existing storm drain. No storm drainage improvements will be done on this campus.

No storm drain improvements.

No storm drain improvements.

There are no sanitary sewer improvements for any of the school

There are no domestic water improvements for any of the school

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Landscape

Site Design Concept

The new design concept is intended to decrease goose droppings and damage, maintenance, and water needs while providing areas for the students to gather and play. This will be accomplished by replacing large areas of natural grass with synthetic turf. The limits of the synthetic turf will approximately follow the limits of the existing natural grass but there will be some modifications.

Landscape Design

The new synthetic turf limits will be slightly reduced compared to existing natural grass areas. In many of the existing natural turf areas that won't be converted to synthetic turf because they are not conducive to students playing or gathering. To help address these areas new drought tolerant, low maintenance landscaping is proposed.

Irrigation Design

Synthetic Turf Design

The new synthetic turf will be retained using both new as well as existing mowbands and concrete paving edges. It will have game striping integrated into the design although the final layout and quantity will need to be determined in collaboration with the District. The synthetic turf system will be a combination of the following products or their approved equals:

- Synthetic turf:
 - o AstroTurf 'Rootzone 3D3 Blend 52'
 - o FieldTurf 'Classic HD'
 - o Shaw Sports Turf 'Legion
- Infill:
 - o Brock 'BrockFill'
- Pad:
 - o Brock 'PowerBase YSR'



ANLA ASSOCIATES

The existing irrigation systems of the natural grass areas will be modified to provide irrigation to the new landscape areas and a series of quick couplers around the perimeter of the synthetic turf fields. Existing control wires are also to be re-run to provide the District with the flexibility to re-use them in nearby landscape areas for future improvements. This will help the District avoid having to excavate within the limits of this project if those future improvements require landscape low voltage control wires.

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Performance Specifications

- porary Tree and Plant Protection
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- nting
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SECTION 01 56 39

TEMPORARY TREE AND PLANT PROTECTION

PART 1 - GENERAL

- 1.1 RELATED DOCUMENTS
- Drawings and general provisions of the Contract, including General and Supplementary Conditions A. and Division 1 Specification Sections, apply to this Section.

SUMMARY 1.2

- Furnish all labor, materials, equipment, facilities, transportation and services to complete tree Α. protection and related work as shown on the drawings and/or specified herein.
- Β. Description of Work:
 - 1. Protection of existing trees and vegetation to remain.
 - 2. Trimming of existing trees.
 - Maintenance of existing trees and vegetation during construction. 3.
 - Removal of existing trees and other vegetation. 4.
 - Contractor shall retain the services of a certified arborist to perform work and/or make 5. recommendations under conditions specified herein.

Traffic: C.

- Do not interfere with or close public ways without permission of the Owner's Representative. 1.
- Do not interfere with adjacent private properties without permission of the Owner's 2. Representative.

D Site Utilities:

- Advise utility companies of excavation activities before starting excavations. 1.
- Locate and identify underground utilities passing through work area before starting work. 2.
- In event unidentified underground utilities are encountered during work, advise utility owner 3. immediately before proceeding. Add any new utility information to project record drawings for actual location.
- Protect all existing-to-remain utilities. 4.
- Do not interrupt existing utilities without advance notice to and approval from the Owner. 5.

1.3 ARBORIST REVIEW AND OVER-SIGHT

- Arborist Qualifications: Certified Arborist as certified by the International Society of Arboriculture A (ISA) and having performed similar services for a minimum of five (5) years.
- Certified Arborist Written Recommendations: Contractor shall retain the services of a reputable В. Arborist certified by the International Society of Arboriculture (ISA) for review and prepare written recommendations for existing to remain shrubs and trees within the project area under the following circumstances. Contractor shall submit the written recommendations to the Owner's Representative for review. Contractor shall implement Arborist recommendations.

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- finish grade.
- 2.
- 3. tree.
- 4.
- C. existing to remain trees.
- D. plant stock to match existing prior to construction.

PROJECT CONDITIONS 1.4

- A. The following practices are prohibited within protection zones:
 - 1. Storage of construction materials, debris, or excavated material.
 - Parking vehicles or equipment. 2.
 - Foot traffic. 3.
 - Erection of sheds or structures. 4.
 - Impoundment of water. 5.
 - 6. Excavation or other digging unless otherwise indicated.
 - 7. indicated.
- Β. Do not direct vehicle or equipment exhaust toward protection zones.
- C. organic mulch.
- 1.5 DEFINITIONS
- A.

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1. Grading, excavation, trenching or any other similar work is required that may disturb roots of existing to remain trees over six (6) inches in diameter measured three (3) feet above

Pruning is required on branches more than two (2) inches in diameter for existing to remain trees over six (6) inches in diameter measured three (3) feet above finish grade.

Damage to existing to remain tree(s) has occurred during construction to any part of the

Construction is required within ten (10) horizontal feet of a tree and/or shrub to remain, with a trunk diameter over six (6) inches in diameter measured three (3) feet above finish grade.

Certified Arborist Over-sight: Certified Arborist shall perform site inspections, provide over-sight and written summary of visit to Owner's Representative prior to demolition and construction work within the dripline of existing to remain trees with a trunk diameter over six (6) inches in diameter measured three (3) feet above finish grade and provide routine maintenance as required to maintain healthy, viable trees throughout the construction process. Certified Arborist shall provide over-site for recommended pruning for branches two (2) inches and larger in size for

Contractor shall be liable for the loss in value due to damaged trees and for repair costs resulting as determined by the Client. Due to the irreplaceable nature of many existing trees and vegetation, the liability to the General Contractor shall be set at \$1,500.00 minimum per tree. The Trunk Formula method for Northern California established by the International Society of Arboriculture will be used to compute the actual value. Other vegetation lost due to construction activity and/or neglect shall be replaced by General Contractor in kind with similar size, potted

Attachment of signs to or wrapping materials around trees or plants unless otherwise

Prohibit heat sources, flames, ignition sources, and smoking within or near protection zones and

Caliper: Caliper is the measured diameter of the tree trunk. The measurement is taken using a tree caliper, a utensil in the shape of an "F" with an adjustable cross arm to slide and rest up against the trunk to measure the precise distance of the trunk width. On young trees, it is taken six (6)

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inches above the soil level. For a mature tree, the caliper is taken at chest height, generally 4-1/2 to 5 feet above the soil level.

- В. Protection Zone: Area surrounding individual trees, groups of trees, shrubs, or other vegetation to be protected during construction and defined by a circle concentric with each tree and/or shrub with a radius equal to the diameter of the drip line unless otherwise indicated.
- Vegetation: Trees, shrubs, groundcovers, grass, and other plants. C.

PART 2 - PRODUCTS

- **PROTECTIVE FENCE** 2.1
- Existing vegetation and/or trees to remain on the site shall be protected with a five (5) foot high A. orange plastic snow fence. Fence shall be mounted on two (2) inch diameter lodge pole posts driven into the ground every six (6) feet to a depth of at least two (2) feet. Fence shall be erected and installed around the perimeter dripline of each shrub, tree or groups of shrubs or trees to remain.
- Β. Snow fence fabric: Shall be orange, UV resistant, .3 inch thickness, 60 inches in height, oval mesh extruded thermal plastic polymer, Tenax or equal, fence fabric.
- C. Signage: Each tree fence shall have a prominently displayed 8.5 inch x 11 inch sign stating "Warning - Protection Zone".
- During planting and irrigation operations, protective fencing is not required beneath existing to D. remain trees and shrubs that fall within the newly landscaped and/or irrigation area.
- 2.2 **ORGANIC MULCH**
- Refer to Specification 32 90 00 "Planting" for organic mulch material to use in non-bio-retention A. planting areas.
- If Specification Section 32 90 00 "Planting" is not issued as part of this project, organic mulch to be В. free from deleterious materials and suitable as a top dressing of trees and shrubs, consisting of organic bark from Republic Services (contact Jennifer White at (408) 687-1928 or iwhite@RepublicServices.com) Pro-Chip decorative mulch, Republic Services, Newby Island Recyclery, Milpitas, CA (408) 945-2836 or approved equal. Color to be mahogany. Submit sample to Owners Representative's for review and approval.
- 2.3 TOPSOIL

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- Import topsoil shall be obtained from a local source and coming from a site with similar soil Α. characteristics as the project site. Topsoil shall be fertile, friable, natural loam surface soil, reasonably free of subsoil, clay lumps, brush, weeds and other litter and free of roots, stumps, stones and rocks and other extraneous or toxic matter harmful to plant growth.
- Manufactured topsoil shall be soil produced off-site by homogeneously blending mineral soils or В. sand with stabilized organic soil amendments to produce topsoil or planting soil.

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- C. an approved soil and plant lab.
- NITROGEN STABILIZED ORGANIC AMENDMENT 2.4
 - program of the U.S. Composting Council.

END OF SECTION

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On-site topsoil shall be naturally occurring, on-site, surface soil, usually occurring in the top four (4) to twelve (12) inches of original, undisturbed surface soil containing organic material, necessary nutrients and minerals to sustain plant growth and be approved to sustain plant life by

A. 0-1/4 inch nitrogen-stabilized organic amendment contributing at least 270 pounds of organic matter per cubic yard. Greenwaste compost is acceptable if recommended by soil analysis lab. Compost shall be obtained from a supplier participating in the Seal of Testing Assurance (STA)

SECTION 31 10 00

SITE CLEARING & DEMOLITION

PART 1 - GENERAL

- 1.01 RELATED DOCUMENTS
- General provisions of the Contract. Α
- CALTRANS Standard Specifications, Section 7-1.13 В.
- SUMMARY 1.02
- This Section includes the following: Α.
 - Protection of existing improvements indicated to remain. 1.
 - Protection of existing improvements adjacent to the job site. 2.
 - Removal of vegetation. 3.
 - Clearing and grubbing. 4.
 - 5. Removal of existing below-grade improvements.

1.03 PROJECT CONDITIONS

- Traffic: Conduct site-clearing operations to ensure minimum interference with traffic Α. associated with SMFCSD Campus driveways, parking lots and other adjacent buildings occupied or other used facilities. No closure or obstruction of streets or other occupied or used facilities will be allowed without expressed written permission of District staff. District's representative and other authorities having jurisdiction over the site.
- A Survey shall be prepared prior to beginning removals or excavation. Contractor shall B. compare existing survey information with Contract Documents and notify District's representatives of any discrepancies. If discrepancies do exist, Contractor shall supply location, elevation, size, and conduit material to facilitate conflicts between existing and proposed utilities. Contractor shall hire a utility locator to locate utilities at least two working days prior to beginning removals or excavation.
- C. Protection of Existing Improvements: The Contractor is hereby advised that certain facilities may exist within the limits of work. Such facilities may include but are not limited to, existing water works, sanitary sewerage, storm drainage, natural gas, electric, telephone, fiber optic cable, irrigation lines, cable TV, asphalt and concrete flat work and buildings. The Contractor shall at all times protect those facilities not indicated to be removed, whether or not shown to be protected, and shall remove only those facilities indicated to be removed in accordance with the Contract Documents and the direction of the authorized representative of the district of the facility. Where the existing facilities interfere with the Contractor in the performance of his work under the Contract, the Contractor shall bear full responsibility for the location, protection, and relocation or restoration of such facility, in accordance with the requirements of the

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district of such facility. Contractor shall coordinate field installation of scope of work with field location of utilities identified by Contractor during field survey of utilities. Contractor shall provide elevations of conflicts for existing and new utilities where identified in the field.

- has made such an examination.
- E.
- USA (Underground Service Alert).
 - that existing before such damage occurred.

1.04 **EXISTING SERVICES**

- Α. commencing work, See Section 1.03.
- В. the new utility systems are being installed.
- Removal of Existing Below Grade Improvements: C.
 - 1.

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D. The presence of such facilities shown on the Civil Drawings and provided for in the Contract Documents is for the convenience of the Contractor in preparing his proposal and planning his work and is prepared from the best information available to the Engineer at the time of preparation. The District makes no warranty, expressed or implied, as to the adequacy, completeness, and accuracy of such information. The Contractor shall satisfy himself with regard to the existence of such facilities and their impact on his operation. Should the Contractor discover any apparent discrepancy between the Contract Documents and conditions found in the field, he shall immediately bring such discovery to the attention of the Engineer. The bidder shall include in his proposal a sum to cover the cost of all items necessary to perform the work as set forth in the Contract Documents. No allowance of any kind whatsoever will be made to the Contractor because of lack of such examination or knowledge. The submission of a proposal will be considered conclusive evidence that the Contractor

The existing surface conditions of the project site were provided by San Mateo-Foster City School District and were compiled by CSW/Stuber-Stroeh Engineering Group, Inc.

F. The Contractor shall protect all public and private property, insofar as it may be endangered by his operations and take every reasonable precaution to avoid damage to such property. The Contractor shall restore and bear the cost of any public or private improvement, facility, or structure within the limits of work, within adjacent street rights-of-way, easements, or work area which is damaged or injured directly or indirectly by or on account of any act, omission, or neglect in the execution of work. This is intended to address those facilities not designated for removal but visibly evident, correctly shown on the plans, marked by the District or by district of said improvement, facility, or structure. Said marking shall include any markings made by

1. In restoring any damaged or injured improvement, facility, or structure, the Contractor shall restore it to a condition substantially equivalent to, or better than,

General: Indicated locations are approximate; determine exact location before

Existing Utility System: The existing utility systems (sanitary, water, storm, gas, electric, telecommunication, and data) shall remain in service to other buildings while

Existing Sanitary Sewer and Storm drain lines: Any existing pipeline within the footprint of the proposed building shall be removed. Sanitary and Storm drain

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lines shall be abandoned back to a manhole or junction box. Existing Storm and Sanitary Manholes shall have abandoned pipe plugged within manhole or box.

Existing Water service: The existing water services within proposed building 2. footprint shall be removed. Water service shall be abandoned back to closest isolation valve.

PART 2 - EXECUTION

SITE CLEARING 2.01

- General: Remove trees, shrubs, grass and other vegetation, improvements, or Α. obstructions, as required to permit installation of new utilities or improvements or as directed by the representative of the District. Remove similar items elsewhere on site or premises specifically indicated. Removal includes digging out and off-site disposal of stumps and roots in accordance with CALTRANS Standard Specifications, Section 7-1.13.
 - 1. The Contractor shall cut minor roots and branches of trees indicated to remain in a clean and careful manner where such roots and branches obstruct installation of new utilities.
 - 2. Clean and careful manner shall be the use of pruning shears, saws, and cutting roots in a manner that does not tear or rip protective outer layer of the root.
 - The earth surface within protective fencing shall not be altered except as 3. acceptable to the District. Any grading or trenching necessary within the dripline shall be done by hand per the discretion of the District.
- B. Clearing and Grubbing: Clear site of trees, shrubs, and other vegetation, except for those indicated.
 - 1. Completely remove deleterious materials, including, but not limited to stumps, roots, and other debris.
 - 2. Fill depressions caused by clearing and grubbing operations with satisfactory soil materials that are in accordance with the soils report. If the soils report does not address filling of depressions, the following requirements shall be used.
 - a. Place fill materials in horizontal layers not exceeding 6 inches (150 mm) loose depth, and thoroughly compact each layer to a minimum density of 85% compaction. This compaction effort shall not relieve the Contractor of any other obligation for compaction that may be required under the specifications for earthwork.

DISPOSAL OF WASTE MATERIALS 2.02

- Roadway: Contractor shall sweep and wash down all paved areas within the public Α. street rights-of-way at the end of each working day or as otherwise directed by the District's representative.
- Burning on District's Property: Burning is not permitted. В.

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- C. with CALTRANS Standard Specification Section 7-1.13.
- District's Property.
- discharged during transit to the disposal site.
- public traveling along
- G.

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Removal from District's Property: Remove waste materials (including, but not necessarily limited to asphalt concrete, trees, other waste compiled from construction) and unsuitable or excess topsoil from District's property and dispose of in accordance

D. Permits: Contractor shall obtain all necessary permits and/or approvals and pay all applicable fees including but not limited to, permit fees, license fees and disposal fees associated with the removal, haulage and disposal of waste materials from the

E. Covered Vehicles: All loads of waste materials carried by trucks or other vehicles shall be fully covered by tarpaulins or similar devices as approved by the California State Highway Patrol in such a manner that will ensure that no portion of the load will be

F. Maintenance of Adjacent Streets: The Contractor shall maintain the public streets adjacent to the construction site free of debris or materials posing a hazard to the

Branches, trimmings and debris remaining upon completion of each operation shall become property of the Contractor and shall be promptly removed from the Site.

END OF SECTION

SECTION 31 23 00

EXCAVATION AND FILL

PART 1 - GENERAL

- 1.01 RELATED DOCUMENTS
- General provisions of Contract Agreement form, including Appendices and Exhibits. Α.
- **Division 1 Specification Sections** В.
- C. 2019 California Building Code, Title 24, Part 2, Sections 1804A, 3304 and appropriate sections for educational facilities apply to this section.
- Standard specifications of the state of California, Department of Transportation D. (CALTRANS).
- A copy of the survey is available for review with HMC Architects. E.
- Refer to Landscape Planting Specification Section 32 90 00 for topsoil requirements. F.

SUMMARY 1.02

- This section includes the following: Α.
 - 1. Preparing and grading subgrades for walks, pavements, and landscaping (including fine grading, placement of topsoil and addition of specified soil amendments).
 - Subbase course for walks and pavements. 2.
 - 3. Excavating and backfilling for underground mechanical and electrical utilities and appurtenances.
- The following sections contain requirements that relate to this section: Β.
 - 1. Section 31 10 00, Site Clearing and Demolition, for site stripping, grubbing, topsoil removal, and tree protection.
 - Section 32 13 13, Civil Site Concrete, for walkways, concrete encasement, thrust 2. blocks, and similar appurtenances for pipeline, drainage, and utility systems.
 - Section 32 90 00, Landscape Planting, for preparation of soil for planting 3.
- Reference Standards: C.
 - Contractor shall perform work in accordance with applicable requirements of 1. state and local agencies having jurisdiction over the project. Contractor shall perform work in accordance with applicable standards and requirements of utility companies.
 - American Association of State Highway and Transportation Officials (AASHTO): 2. Standards.
 - American National Standards Institute (ANSI): Standards. 3.
 - American Society of Testing Materials (ASTM): 4
 - a. Materials and testing standards as identified throughout this Section.

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- Construction Safety Orders.

 - Construction Safety Orders. b.
 - Subpart P Excavations.

DEFINITIONS 1.03

- Α. the reuse or disposal of materials removed.
- В.
- C. available from excavations
- D. walk.
- E. pavement in a paving system.
- F. cut off upward capillary flow of pore water.
- G representative, shall be at the Contractor's sole risk and expense.
- Ι. constructed above or below ground surface.
- J. underground services within building lines.
- K. other structures associated with the project.

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b. ASTM D2487 "Classification of Soils for Engineering Purposes."

California, Department of Transportation (CALTRANS): Standard Specifications. California Occupational Safety and Health Administration (CALOSHA):

a. California State Industrial Accident Commission (CSIAC): Trench

U.S. Occupational Safety and Health Administration (OSHA): Standards -29 CFR, PART 1926 Safety and Health Regulations for Construction,

Excavation consists of the removal of material encountered to subgrade elevations and

Subgrade: The uppermost surface of an excavation or the top surface of a fill or backfill immediately below base or subbase, drainage fill, or topsoil materials.

Borrow: Soil material obtained off-site when sufficient approved soil material is not

Subbase Course: The layer placed between the subgrade and base course in a paving system or the layer placed between the subgrade and surface of a pavement or

Base Course: The layer placed between the subbase or subgrade and surface

Drainage Fill: Course of washed granular material supporting slab-on-grade placed to

Unauthorized excavation consists of removing materials beyond indicated subgrade elevations or dimensions without direction by the District's representative. Unauthorized excavation, as well as remedial work directed by the District's

H. Unsuitable Soil: Poor yielding soil that the District's representative determines as unsatisfactory for footings, slabs, trenches or pavement subgrades.

Structures: Buildings, footings, foundations, retaining walls, slabs, tanks, curbs, mechanical and electrical appurtenances, or other man-made stationary features

Utilities: include on-site underground pipes, conduits, ducts, and cables, as well as

Waste Material: Excess material generated from utility trenches, pavement sections, or

EXCAVATION AND FILL 31 23 00 - 2

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1.04 SUBMITTALS

- A. Wet Weather Construction Plan: Contractor shall submit a plan outlining procedures and methods that shall be implemented during the wet weather construction, plan shall address the following:
 - 1. Open trench protection;
 - Protection of exposed soils (graded or stockpiled); 2.
 - 3. Protection of materials (pipe, conduit, wiring or other pertinent items).
- Test Reports: In addition to test reports required under field quality control, submit the Β. following:
 - 1. Laboratory analysis of each soil material proposed for fill and backfill from on-site and borrow sources, including drainage fill;
 - One optimum moisture-maximum density curve for each soil material; 2.
 - Report of actual unconfined compressive strength and/or results of bearing tests 3. of each stratum tested.

1.05 QUALITY ASSURANCE

- Codes and Standards: Perform earthwork complying with requirements set forth on the Α. plans, in the soils report, or as required under applicable ordinances or codes of all governmental agencies having jurisdiction over the project.
- Testing and Inspection Service: District will employ a qualified independent B. geotechnical engineering testing agency to classify proposed on-site and borrow soils to verify that soils comply with specified requirements and to perform required field and laboratory testing.
- C. Safety Standards: All excavation should be constructed in accordance with OSHA and CAL-OSHA Safety Standards. Safety in and around utility trench is the responsibility of the underground contractors.
- Pre-installation Conference: Conduct conference at Project site. D.
 - 1. Before commencing earthwork, meet with representatives of the governing authorities, District, District's representative, consultants, Geotechnical Engineer, independent testing agency, and other concerned entities. Review earthwork procedures and responsibilities including testing and inspection procedures and requirements. Notify participants at least 3 working days prior to convening conference. Record discussions and agreements and furnish a copy to each participant.
- 1.06 PROJECT CONDITIONS
 - General: Α.

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1. Earthwork operations shall be conducted so as to prevent windblown dust and dirt from interfering with the surrounding normal operations. Contractor shall assume liability for all claims of windblown damage and dirt. Since the area of disturbance is less than 1 acre, a Storm Water Pollution Prevention Plan

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(SWPPP) has not been prepared for the project, but Best Management Practices (BMP's) shall be employed on-site.

- 2. as directed by the District at the Contractors expense.
- 1.

 - earthwork related activities.
- over services of existing buildings.

PART 2 - PRODUCTS

SOIL MATERIALS 2.01

- conditions prior to incorporation into earthwork.
- Geotechnical Engineer prior to incorporation into the earthwork.

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Bench Marks, monuments, signs and other reference points shall be maintained and protected; if disturbed or destroyed, they shall be replaced by the Contractor

B. Existing Utilities: Do not interrupt existing utilities serving facilities occupied by the District or others except when permitted in writing by the District's representative and then only after acceptable temporary utility services have been provided.

Provide a minimum two working days' notice to the District's representative and receive written notice to proceed before interrupting any utility.

Notify Underground Service Alert (USA) at (800) 227-2600 at least two working days prior to beginning removal, grading, excavation, trenching, or other

C. Demolish and completely remove from site existing underground utilities indicated to be removed. Coordinate with utility companies to shutoff services if lines are active. Coordinate with Portola Valley School District maintenance staff to shutoff or switch

A. Backfill and Fill Materials: Satisfactory soil material shall be on-site soil materials with an organic content of less than 3-percent by weight or without visible organ matter and free of deleterious materials or hazardous substances may be used as engineered fill. On-site soil material to be reviewed by District's Geotechnical Engineer for satisfactory

B. Subbase and Base Material: Naturally or artificially graded mixture of natural or crushed gravel, crushed stone, and natural or crushed sand, conforming with CALTRANS Class 2 aggregate base or ASTM D2940, with at least 95 percent passing a 1-1/2 inch (38 mm) sieve and not more than 8 percent passing a No. 200 (75 micrometer) sieve as approved by the project Geotechnical Engineer.

C. Engineered Fill: Subbase or base materials approved by Geotechnical Engineer. In general, engineered fill shall be predominantly granular, shall not contain any rocks or lumps larger than 3-inches in greatest dimension, shall not contain more than 15percent of material larger than 1 ½ inches, shall have a Plastic Index of 15 or less, and shall contain sufficient fines to allow excavation to be made without caving. All import fill shall meet the requirements of engineered fill and shall be approved by the District's

D. Pipe and Conduit Bedding Material: Bedding material shall be clean, washed, granular material derived from decomposed or crushed rock. Such material shall be free of organic material, mica, clay, silts, oils, and other deleterious materials. Sand bedding

> **EXCAVATION AND FILL** 31 23 00 - 4

EXCAVATION AND FILL 31 23 00 - 5

shall have a maximum particle size of 1/4-inch with gradation that allows 90 to 100 percent passing a No. 4 sieve and not more than 10 percent to pass a No. 200 sieve.

- Drainage Fill: Washed, poorly graded mixture of crushed stone, or crushed or Ε. uncrushed gravel, ASTM D448, coarse aggregate grading size 57, with 100 percent passing a 1-1/2 inch (38 mm) sieve and not more than 5 percent passing a No. 8 (2.36 mm) sieve.
- F. Filtering Material: Poorly graded mixture of natural or crushed gravel or crushed stone and natural sand, with 100 percent passing a 1-1/2 inch (38 mm) sieve and 0 to 5 percent passing a No. 50 (300 micrometer) sieve.
- G. Fill: On-site soil free of organic material, debris, rocks, and clods and approved by the Project Geotechnical Engineer.
- Topsoil: Refer to Specification Section 32 90 00 for Landscape Planting requirements. Н. Material excavated from the project site with sufficient organic content to render it unsuitable for engineered fill, but which can be used for landscaping purposes. Material must be free of roots, rocks larger than 1/2 inch, debris, vegetation, and foreign or deleterious material which may be harmful to plant growth. The top 12 inches of landscape areas shall be organic laden topsoil free of any 1/2 inch crushed rock or aggregate base rock material. Stockpile organic laden topsoil in the location indicated on the plans or as directed by the District's representative. Topsoil shall be placed minimum 1 inch below adjacent concrete edge.

END OF SECTION

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PART 1 - GENERAL

- 1.01 SUMMARY
- Α.
- В.
- Geotechnical Report. None for this project. C.
- SUBMITTALS 1.02
- Reference Standards: Α.
 - 1. definitions.
 - 2.

 - 3. 4.
- Β.

PART 2 - PRODUCTS

- MATERIALS 2.01
 - Α.
 - Wire: ASTM B211, galvanized steel, not smaller than 20 gage. В.
 - C. Silt Control Fabric:
 - D. Mulch Netting:
 - 1. of all herbicides.
 - 2. Anchors:
 - E. Fasteners:
 - Nails: FS FF-0105, common wire, galvanized. 1.
 - Wire: 16 or 18 gage steel, galvanized. 2.
 - 3. Rebar: No. 4 bar.

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SECTION 31 25 00

EROSION CONTROL

Description: Provide Erosion Control, as shown and specified per Contract Documents.

Related Documents: CALTRANS Standard Specifications, Section 7-1.13 and **CALTRANS** Construction Site Best Management Practices Manual

General: Refer to References, for reference standards, applicable codes and State of California, Department of Water Resources (CDWR): Storm water

pollution prevention requirements and submittal documents. CALTRANS Construction Site Best Management Practices Manual. CALTRANS Storm Water Quality Handbooks.

Closeout: Remove temporary erosion control devices from the site.

Straw: Fresh wheat straw, dried and completely free of foreign matter and debris.

1. General: Manufactured by Mirafi Moisture Protection or approved substitute.

General: Natural fiber netting capable of withstanding a minimum of one year of exposure to the weather without shrinking or disintegration. Netting shall be free

a. "J" Pins: Galvanized wire, 0.12 inch diameter x 10 inches long. b. "U" Staples: Galvanized wire, 0.09 inch diameter x 6 inches long.

EROSION CONTROL 31 25 00 - 1

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2.02 FABRICATION			SEC
	Bales: Fabricate of straw to uniform standard size bale and wire tie sufficiently to hold bale shape throughout designated period of construction.		ASPHALTIC
END OF SE		PART 1	- GENERAL
		1.01	SUMMARY
		А.	Description: Provide Asphalt Cor Documents, including but not limited t
		1.02	SUBMITTALS
		А.	Closeout: 1. General: Exhibit I – Specificati
		В.	Certificate of Compliance: 1. General: CALTRANS Standard
		1.03	QUALITY REQUIREMENTS
		А.	General: Exhibit I – Specification Sec
		В.	Reference Standards: 1. General: Exhibit I – Spec applicable codes and definition
		С.	State of California, Department of Tra
		D.	California Building Code (CBC) Sect and 1133B.8.4 for Tactile warning line
		PART 2	- PRODUCTS
		2.01	MATERIALS
		A.	Surface Course Aggregate: Mineral a Standard Specifications, Section 39-2 grading.
		2.02	MIXES
		А.	General: Plant mixed per CALTRAN maximum medium grading.
		B.	Temperature of Asphalt: 275°F m
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ECTION 32 12 16

IC CONCRETE PAVING

Concrete Paving, as shown and specified per Contract d to 1-C2.1, 2-C2.1, 3-C2.1, 4-C2.1, & 5-C2.1

ation Section, Closeout Procedures.

ard Specifications (Section 39).

ection, Quality Assurance.

ecification Section, References, for reference standards, ons.

ransportation (CALTRANS): Standard Specifications.

ection 1129B.5 for Parking Spaces, and Section 1133B.8.3 nes.

al aggregates for Type "A" asphalt concrete, per CALTRANS 9-2.02, Type A, 1/2 inch grading; 1/2 inch maximum, medium

ANS Standard Specifications, Section 39, Type A, 1/2 inch

minimum; 325°F maximum, when added to aggregate. **END OF SECTION**

ASPHALTIC CONCRETE PAVING 32 12 16 - 1 **SECTION 32 13 14**

CIVIL SITE CONCRETE

PART 1 - GENERAL

1.01 SUMMARY

- DESCRIPTION: Provide Non-Architectural Concrete, as shown and specified per Contract Α Documents. Includes installation of items furnished under other Sections but cast in the concrete.
- В. DEFINITIONS:
 - 1. Architectural Concrete: Concrete which will be permanently exposed to view and which therefore requires special care in selection of the concrete materials, forming, placing and finishing to obtain the desired architectural appearance.
 - Non-Architectural Concrete: Curb and Gutter, Concrete Valley Gutter, & Concrete 2. Sidewalks.
- SUBMITTALS 1.02
- SHOP DRAWINGS: А
 - 1. General: Submit concrete mix designs for review.
 - 2. Aggregate Base:
 - Submit aggregate for standard pavement base section
 - Reinforcing: Submit manufacture and installation details, including fastenings, for review. 3.
- SAMPLES: Submit concrete finish samples, if requested. Β.
- PRODUCT DATA: Submit manufacturer's specifications, data, and installation instructions for C. review.
- D. CERTIFICATES:
 - 1. General: Submit certification stating that products used to manufacture concrete delivered to the site meets or exceeds the material and testing requirements of these specifications.
 - Reinforcement: Submit mill test and chemical analysis certificates for all reinforcing steel 2. delivered to the site.
- E. PLACEMENT RECORDS: Keep on job site until completion, and open to inspection, record showing time and date of placing concrete in each portion of structure.

QUALITY ASSURANCE 1.03

- **REFERENCE STANDARDS:** Α.
 - 1. American Society of Testing Materials (ASTM): Materials and testing standards as identified throughout this Section.
 - American Concrete Institute (ACI): 2.
 - a. ACI 302.1R: Guide for Floor and Slab Construction.
 - ACI 304R: Guide for Measuring, Mixing, Transporting and Placing Concrete. b.
 - ACI 305R: Hot Weather Concreting. c.

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- ACI 306R: Cold Weather Concreting. d.
- e. f.
- g.
- ACI SP-66: Detailing Manual. h
- 3. Steel
- 4.
- 5. Ready Mix Concrete Production Facilities.
- В.
- ALLOWABLE TOLERANCES: C.
 - 1. Non-Architectural Concrete:
 - a. b.
 - (3.0m) straight edge.

PART 2 - EXECUTION

MATERIALS 2.01

FORMWORK: Α.

- 1. Forms:
 - a.
 - representatives. b.
 - sheets with clean true edges.
 - C.
 - d
 - in place while placing concrete.
 - Corner Formers: Chamfered wood.
- 2.
- Vapor Barrier: 3.
 - а
 - b.
 - c.

В. REINFORCEMENT:

- 1.
- larger Grade 60, or ASTM A 706 where shown.
- Reinforcing Supports: 2.
- a.
- Tie Wire: 16 gage annealed type. 3.
- 4.

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ACI 308: Standard Practice for Curing Concrete. ACI 318: Building Code Requirements for Reinforced Concrete. ACI 347R: Recommended Practice for Concrete Formwork. American Welding Society (AWS): AWS D1.4 - Structural Welding Code - Reinforcing

Concrete Reinforcing Steel Institute (CRSI): Manual of Standard Practice. National Ready Mixed Concrete Association (NRMCA): Check List for Certification of

TESTING: Tests by Testing Laboratory appointed by Owner and under directions of Architect; expense of testing borne by Owner; make tests per Section 1929A of CBC.

> Variation in cross-sectional dimensions: -1/8" +1/4". Variation in surface tolerance: 1/8" in 10 ft. in any direction as determined by 10 ft.

> Lumber: Construction grade Douglas Fir or approved substitute by owner

Plywood: PS 1, C Grade Douglas Fir, 5/8 inch minimum; sound undamaged

Metal: Gage sufficient to provide equivalent rigidity and strength.

Fasteners: As required; of sufficient strength and character to maintain formwork

Form Release Agent: Colorless mineral oil which will not stain the concrete or impair natural bonding characteristics of coating intended for use on concrete.

General: Moistop, 10 mil thick minimum, manufactured by the Fortifiber Corp. Alternate Manufacturers: Comparable products manufactured by 3m Construction Markets, Specified Construction Products Division, or accepted equal. Joint Tape: As recommended by manufacturer.

Reinforcement Bars: ASTM A615, deformed; No. 4 and smaller Grade 40; No. 5 and

General: Metal chairs, bolsters, bar supports, or spacers, sized and shaped for strength and support during concrete placement.

b. Footings: Bottom bars supported with concrete blocks.

Dowels: ASTM A615, 40Ksi yield grade, plain steel, uncoated.

CIVIL SITE CONCRETE 32 13 14 - 2

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- ANCHOR BOLTS: ASTM A307; rolled body bolts with upset threads not permitted. C.
- CONCRETE: D.
 - Cement: ASTM C150, Type I or II. 1.
 - 2. Aggregates:
 - General: ASTM C33; Fine Aggregate: Felton Quarry or approved subsitute а.
 - Lightweight: ASTM C330; Permanente Limestone or Aromas Granite. b.
 - Exposed aggregate: Contractor shall submit dark aggregate for exposed concrete С. apron at existing trash enclosure
 - 3. Water: Clean and free from deleterious amounts of acids, alkalis, scale, or organic materials.
 - 4. Admixtures:
 - Water Reducing Admixture: Use admixture per ASTM C494 to improve placing, a. reduce water cement ratio, and ultimate shrinkage. Such admixture must receive prior approval of Architect and be included in original design mix.
 - b. Air Entrainment:
 - General: ASTM C260; Manufactured by Euclid Chemical Co. 1)
 - Alternate Manufacturers: Comparable products manufactured by W.R. 2) Meadows, Inc., or accepted equal.
 - Hardener: C.
 - General: "Kure-N-Seal' manufactured by the Sonneborn Building Products 1) Division of the ChemRex Inc.; color selected by the Architect.
 - Alternate Manufacturers: Comparable products manufactured by L. M. 2) Schofield Co., or accepted equal.
 - Fly Ash: d.
 - General: ASTM C-618 1)
 - 2) If pozzolanic additive is used, only 25% of portland cement replacement is allowed.
 - 5. Slip-Resistive Aggregate Finish: Factory-graded, packaged, rustproof, nonglazing, abrasive aggregate of fused aluminum-oxide granules or crushed emery with emery aggregate containing not less than 50 percent aluminum oxide and not less than 25 percent ferric oxide; unaffected by freezing, moisture, and cleaning materials.
 - Membrane Curing Compound: ASTM C309, Type 1D clear (with fugitive dye), 6. guaranteed not to affect bond of subsequent finish materials. Curing compound and areas to receive it must be accepted by Architect before application.
 - 7. Sealer:
 - General: Burke Spartan-Cote WB Cure-Seal-Hardener manufactured by White a. Cap Industries, Inc.
 - Alternate Manufacturers: Comparable products manufactured by the Sonneborn b. Building Products division of the ChemRex Inc., or accepted equal.
 - 8. Bonding Agent for Patching:
 - a. General: Acryl-Set manufactured by Master Builders, Inc.
 - Alternate Manufacturers: Comparable products manufactured by W.R. Meadows, b. Inc., or accepted equal.
 - 9. Non-shrink Grout:
 - a. General: "Masterflo 713" manufactured by MBT Protection & Repair/ChemRex
 - Alternate Manufacturers: Comparable products manufactured by W.R. Meadows, b. Inc., or accepted equal.
 - Color: 10.
 - Ready Mix Integral Color #920 Black @ 2.0% by weight of cement a.
- EXPANSION JOINT MATERIALS: ASTM D 1751, preformed; 1/2 inch thick max., unless Ε. otherwise shown.

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2.02 MIXES

2.

- CONCRETE DESIGN: Α.
 - 1. Designed Strength and Class of Concrete:
 - a.
 - 1) 28 Day strength of 3000 psi. 2)
 - 4" maximum slump. 3)
- B. MIXING OF CONCRETE:
 - 2. Ready-Mix Concrete:

19A-A-7 do not apply.

- a. mixer was loaded.
- Batch Plant Inspection Waiver: b.
 - 2)
 - 3)

 - 4)
 - 5)
 - placed in any one day.
 - 6)
 - backcharged to Contractor.
- 3.
 - called for in a specific mix.
- Job Mixed Concrete: 4
 - a. are in drum.

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Class "B" Concrete: Curb, Gutter and Thrustblocks 1" maximum aggregate size.

Limiting Quantities and Minimum Strength: Design concrete for strength per CBC Section 1905A, Method B. Mixtures shall be reviewed by Laboratory selected by and with costs of reviewing mixes borne the Owner. The limiting quantities of CBC Table

1. General: All concrete shall be mixed until there is uniform distribution of material and mass is uniform and homogeneous; mixer must be discharged completely before the mixer is recharged. Conform to requirements of CBC Section 1905A.2.3, Method B.

> General: Mix and deliver in accordance with the requirements set forth in CBC Section 1905A.8.2. Unless waived by Architect, representative of testing laboratory shall maintain continuous inspection at ready-mix plant to run check sieve analysis of aggregate: check design of mix. check cement being used with test reports, check loading of trucks and certify quantities of materials placed in each truck. Ready-mix plant to deliver to Inspector on work certificates with each truck bearing signature of representatives of testing laboratory, stating quantity of cement, water, fine aggregate, coarse aggregates contained in load, and time

1) General: If the batch plant meets the requirement of CBC 1929 A.5 and the following quality control requirements, the Architect may waive the requirement for continuous batch plant inspection.

Testing Laboratory: Inspection by representatives of testing laboratory to be made at start of the work to check the first batching and to furnish mix proportions to Licensed Weighmaster.

Weighmaster: Licensed Weighmaster to positively identify materials as to quantity and certify to each load by ticket.

Certification: Ticket shall be transmitted to Project Inspector by truck driver with load identified thereon. Inspector will not accept load without tickets identifying mix and will keep daily record of pours, identifying each truck, its load and time of receipt and will transmit two copies of record to DSA.

Test Cylinders: A minimum of one (1) set of three (3) cylinders shall be taken and tested for each 50 cubic yards of concrete or fraction thereof

Affidavit: At end of project, Weighmaster shall furnish affidavit for DSA on form satisfactory of DSA, certifying that all concrete furnished conforms in every particular to proportions established by mix designs. Any costs involved in this modified procedure will be paid by the Owner and

Admixtures: Verify compatibility of concrete admixtures when multiple admixtures are

General: Use batch mixer of approved type, with capacity to handle one or more full sack batches, no split sack batches permitted. Operate as recommended by manufacturer, mixing at least one and one half (1-1/2) minutes after all materials

> **CIVIL SITE CONCRETE** 32 13 14 - 4

- Handling and Mixing of Concrete: Architect may order removal of any equipment b. which in his opinion is insufficient or in any way unsuitable.
- GROUT: Provide mortar containing same proportions of cement and sand as used for C. concrete, with ultimate compressive strength of 3000 psi.

END OF SECTION

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SYNTHETIC FIELD SPORT SURFACING

PART 1 - GENERAL

- 1.01 SUMMARY
- Α. turf system.
- Β. Related Sections 1. Concrete Work, refer to section 32 13 13.
- REFERENCES 1.02

ASTM TEST METHODS Α.

- D1335 Standard Test Method for the Tuft Bind of Pile Yarn Floor Covering. 1.
- 2. D1577 – Standard Test Method for Linear Density of Textile Fiber. D2859 – Standard Test Method for Ignition Characteristics of Finished Textile 3.
- - Floor Covering Materials.
- 4. tivity.
- 5. Fabrics (Grab Test). 6.
- 7. ing Surfaces.
- F1 936 Standard Test Method for Shock-Absorbing Properties of North Ameri-8. can Football Field Playing Systems as Measured in the Field.
- ASTM F1951-99 Standard Specification for Determination of Accessibility of Sur-9. face Systems Under and Around Playground Equipment.
- 10. ASTM F 1292 Standard Specification for Impact Attenuation of Surface Systems Under and Around Playground Equipment.
- 11. US Consumer Product Safety Commission (CPSC) Handbook for Playground Safety.
- INSTALLING CONTRACTOR QUALIFICATIONS 1.03
 - Α. project.

SECTION 32 18 23.29

Section Includes furnishing, delivery, installation and warranty of a complete synthetic

- D4491 Standard Test Methods for Water Permeability of Geotextiles by Permit-
- D5034 Standard Test Method of Breaking Strength and Elongation of Textile
- D5848 Standard Test Method for Mass Per Unit Area of Pile Yarn Floor Cover-
- F1 015 Standard Test Method for Relative Abrasiveness of Synthetic Turf Play-

The turf contractor must be experienced in the installation of the specified type of synthetic infilled turf system for at least five (5) years and have at least thirty (30) outdoor installations in California of the specified material and of similar size to this

> SYNTHETIC FIELD SPORT SURFACING 32 18 23 29 - 1

- The turf contractor must provide competent workmen skilled in this specific type of synthetic turf installation. The designated Supervisory personnel on the project must be certified as competent in the installation of this material, including sewing seams and proper installation of the infill mixture.
- C. The turf contractor foreman installing the synthetic turf must have installed at least twenty (20) fields in the last three (3) years of the specified material.
- The turf manufacturer must have certified crews and may not use outside, independent D. contractors for the installation.
- MAINTENANCE 1.04
- Turf installation Contractor shall train maintenance staff and/or contracted maintenance Α. staff in the use of the recommended maintenance equipment and provide written maintenance guidelines to the facility maintenance staff.
- DELIVERY, STORAGE, AND HANDLING 1.05
 - All manufactured items shall be inspected and approved by Contractor upon delivery. Α.
 - Protect from theft, damage and intrusion of deleterious materials during delivery, Β. handling, storage, and installation.
- 1.06 ENVIRONMENTAL CONDITIONS
- Install synthetic turf surfacing only when ambient air temperature is 35 F or above and Α. the relative humidity is below 35% or as specified by the product manufacturer. Installation will not proceed if rain is imminent.
- Install product only when prepared base is suitably free of dirt, dust, and petroleum Β. products, is moisture free and sufficiently secured to prevent unwanted pedestrian and vehicular access.
- Maintain all benchmarks, monuments, and other reference points. If disturbed or de-C. stroyed, replace as directed.
- D. Adjacent streets, sidewalks, and property shall be kept free of mud, dirt, or similar nuisances resulting from earthwork operations.
- FIELD CONDITIONS 1.07
- Site Inspection: The inspection shall include a check for planarity. The finished surface Α. shall not vary from a true plane more than 1/4" in 10 feet when measured in any direction. The Contractor shall provide all required tools and materials needed for the planarity check, which may include but not be limited to, a laser level, string line, straight edge and/or other assessment materials. The Contractor shall mark in the field any deviations from grade in excess of those specified above, as well as provide a marked up

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SYNTHETIC FIELD SPORT SURFACING 32 18 23 29 - 2

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plan locating the deviations. The Contractor shall correct any deviations to the satisfaction of the Owner's Representative and Synthetic Turf installer.

- Β. ances shall not exceed 1/4" over 10 feet.
- 1.08 WARRANTY
- Α. amount of the usage.
- The warranty submitted must have the following characteristics: Β.
 - Substantial Completion.
 - 2. Warrant materials and workmanship. 3.
 - 4.

 - 5. 6

 - 7. of the turf Manufacturer or Contractor.
 - 8. etc. to complete said repairs.

PART 2 - PRODUCTS

- MANUFACTURERS 2.01
- Α. for the Project:
 - 1. Astro Turf synthetic turf
 - BrockFILL infill 2.
 - Field Turf synthetic turf 3.
 - BrockPAD padding 4.
 - Shaw Sports Turf synthetic turf 5.
- 2.02 DESCRIPTION FOR SYNTHETIC TURF OPTIONS
 - Basis-of-Design Product: Astro Turf Rootzone 3D3 Blend 52 Α. 2680 Abutment Road, SE

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The compaction of aggregate base shall be 95% to Standard Proctor and surface toler-

Manufacturer Warranty: The Turf Company shall submit its Manufacturer's Warranty which guarantees the usability and playability of the synthetic turf system for its intended uses for a minimum eight (8) year period commencing with the date of Substantial Completion. The warranty coverage shall not be prorated nor limited to the

1. Provide full coverage for a minimum of eight (8) years from the date of

Warrant that the materials installed meet or exceed the system specifications.

Repair or replace such portions of the installed materials that are no longer serviceable to maintain a serviceable and playable surface.

Be from a single source and complete, covering workmanship and all materials.

Assure the availability of exact or substantially the same replacement materials for the synthetic turf system installed for the full warranty period.

Include general wear and damage caused from UV degradation. The warranty shall specifically exclude vandalism and acts of God that are beyond the control

Shall be limited to repair or replacement of the affected areas at the option of the Contractor, and shall include all necessary materials, labor, transportation costs,

9. Shall maintain an ASTM F 355 Gmax of less than 165 for the life of the warranty.

Products of the following manufacturer(s) form the basis of design and quality intended

1. Contact Astro Turf Corporation – Astro Turf Rootzone 3D3 Blend 52

SYNTHETIC FIELD SPORT SURFACING 32 18 23 29 - 3

Dalton, GA 30721 (706) 277-8873

- 2. A synthetic turf system tufting 10,800 denier monofilament fibers made from a singularly extruded combination of stabilized polyethylene and nylon polymers with proper compatibilizers. Fibers shall be tufted into a suitable primary backing and coated with a secondary metered polyurethane adhesive coating. Pile height shall be nominal 2.0". Fibers shall be tufted to a primary backing and a mechanically applied adhesive secondary backing.
- The infilled pile surface shall provide good traction in all types of weather with the 3. use of conventional sneaker type shoes, composition molded sole athletic shoes, and screw-in style football cleats.
- The pile surface shall be suitable for both temporary and permanent line 4. markings using acrylic paint, as per the turf provider's recommendations.
- 5. Adhesives used in bonding the seams shall be resistant to moisture, freeze/thaw, bacteria and fungus attacks, and resistant to ultraviolet radiation. The adhesive shall be made especially for the adhesion of synthetic turf seams and inlaid field markings and graphics.
- 6. The seam specific adhesive system shall have been utilized on at least 25 full installations. Provide this information with the bid. It shall consist of a factorymade adhesive bed applied to non-woven fabric seaming tape. The adhesive bed shall be a metered amount suitable for the application. It shall be heat and pressure activated. As special heat application machine and pressure application using weighted rollers is mandatory.
- 7. Supply field groomer and sweeper or single maintenance apparatus that performs both basic maintenance functions.
- Perimeter edge details required for the system shall be as detailed and 8. recommended by the turf provider, and as approved by the turf provider.
- 9. Turf Fabric Surface:
 - a. The pile surface shall resemble freshly mown natural grass in appearance, texture and color.
 - The pile surface shall be nominally uniform in length. b.
 - The pile fiber angle shall be 90 degrees +/- 15 degrees, measured from the C. horizontal after installation of the infill material.
 - The entire system shall be resistant to weather, insects, rot, mildew and d. fungus growth and will be non-allergic and non-toxic.
 - The synthetic turf system shall have a nominal fiber length of 2.0". e.
 - f. Each roll shall be minimum 15' wide.
 - The entire system shall be constructed for porous standards as specified. g. Synthetic turf system shall be perforated at 4-6" on center. Systems that are not perforated for maximum drainage shall not be acceptable.
 - Markings shall be tufted in-place, inlaid or glued. It is recommended that h. the maximum amount of markings be factory-prefabricated into the turf system prior to shipment to site. At a minimum, football markings (with the exception of hash marks) shall be factory prefabricated.
- 10. Product Specifications Turf:
 - Face yarns shall be a proven athletic quality, outdoor stabilized a. monofilament made from a singularly extruded combination of stabilized polyethylene and nylon polymers with proper compatibilizers.
 - The fabric shall possess the following minimum physical characteristics. b. ASTM testing shall be provided with the bid and any products not meeting the minimum physical characteristics will be rejected:

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Average Pile Yarn Fa Average Total Weight Secondary Backing V Primary Backing Average Tuft Length **Tufting Gauge** Tuft Bind

Yarn Denier (monofilan

Fiber Thickness (prim

Surface Flammability

Permeability

Melt Point

Gmax System (America

- B. Basis-of-Design Product: Field Turf Classic HD
 - 1. www.fieldturf.com
 - 2.
 - a. inhibitors.
 - b. and twisted.
 - C. abrasion.
- 3. 4
 - tested by ASTM F 1551.
 - 5. backing system of woven polypropylene or urethane.
 - a. Backing system shall be treated with UV inhibitors.
 - b manufacturing process.
 - ounces per square yard.
 - determined by ASTM D 1335.
 - 7. acceptable.
 - 8. Markings:

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ace Weight	ASTM D 5848	52 oz/square yard
nt	ASTM D 5848	78.5 oz/square yard
Weight	ASTM D 5848	20.0 oz/square yard
	ASTM D 5848	7.0 oz/square yard
	ASTM D 5823	2.0"
	ASTM D 5793	½" maximum
	ASTM D 1335	> 8 lbs
ment fiber)	ASTM D 1577	10,800/6
nary/secondary)	ASTM D 3218	330 microns
/	ASTM D 2859	8 of 8 PASS
	ASTM D 1551	>30
	ASTM D 789	248 deg. Fahrenheit
an Football)	ASTM F 355	<125 @ installation
		<165 thru warranty

Contact Field Turf – Andrew Rowley, Regional Sales Manager

(707) 586-2066

Synthetic turf hybrid system consisting of monofilament and slit-film polyethylene fibers: 15,000 denier, low friction, measuring not less than 2 inches high. Monofilament fibers shall have a minimum thickness of 250 microns and slit film fibers shall have a minimum thickness of 135 microns.

The low friction fiber shall be custom blended polyethylene, treated with UV

Fibers shall have been extruded individually through a spinerette, stretched

Low friction fiber shall be specifically designed to virtually eliminate

The maximum gauge of the tufted fiber rows shall be ³/₄ inch.

The turf product shall have an infiltration rate not less than 100" per hour as

Backing: Not less than 2 components consisting of a primary and secondary

The backing shall receive polyurethane and acrylic applications during the

c. The backing weight of all backing material shall be a minimum of 30

6. The minimum tuft binding tensile strength shall be 8 pounds without infill, as

The synthetic turf shall be delivered in 15 foot wide rolls and of sufficient length to extend from sideline to sideline. Head seams, between the sidelines, will not be

> SYNTHETIC FIELD SPORT SURFACING 32 18 23 29 - 5

- The perimeter white and yellow lines can be tufted into the individual a. sideline rolls.
- b. Field of play lines for soccer, including soccer penalty kick circle, shall be inlaid and tufted. The lines for soccer including soccer penalty kick circle shall be vellow.
- All field of play lines for lacrosse, including team and official areas, shall be C. inlaid or tufted. The lines shall be blue.
- Field of play lines for field hockey, including team and official areas, shall d. be inlaid or tufted. The lines shall be blue.
- e. Field of play lines for football (except hash marks, which can be painted) shall be inlaid or tufted. The lines for football shall be white.
- For football sideline vardage markers conforming to NCAA, NFHS and/or f. CIF recommendations shall be inlaid. These shall include markers in 10 yard increments including goal line on both sides of the field and the entire length of the field, as well as player and coacher's boxes.
- Field of play lines for baseball, shall be inlaid or tufted. Lines shall be g. white.
- Field of play lines for softball, shall be inlaid or tufted. The lines shall be h. white.
- Basis-of-Design Product: Shaw Sports Turf: Legion Hybrid Synthetic Turf System 2.0 С
 - 1. Contact Shaw Sports Turf www.shawsportsturf.com
 - (877) 260-7888 2. Synthetic turf system shall be tufted, polyethylene, grass-like fabric coated with a secondary backing of high-grade polyurethane. The two fibers specified in this grid shall be tufted through the same needle in a grass-like fabric to a finished pile-height also specified in the grid.
 - 3. All components and their installation method shall be designed and manufactured for use on outdoor athletic fields. The materials as hereinafter specified should be able to withstand exposure in all climates, be resistant to insect infestation, rot, fungus, mildew, ultraviolet light and heat degradation, and shall have the basic characteristics of flow-through drainage, allowing free movement of surface runoff through the synthetic turf fabric where such water may flow to the existing base and into the field drainage system.
 - The finished playing surface shall appear as mowed grass and shall resist 4. abrasion and cutting from normal use.
 - The polyethylene pile yarn shall be a proven athletic caliber yarn designed 5. specifically for outdoor use and stabilized to resist the effect of ultraviolet degradation, heat, foot traffic, water, and airborne pollutants.
 - 6. The system shall be tufted at the pile height and gauge listed in specification grid,
 - The Primary Backing must be a multi-layer backing, contain UV stabilizers and 7. must pass 3000 hours of QUV A testing, refer to grid in section 2.2 H.
 - The Secondary Backing of high-grade polyurethane shall be applied to the 8. Primary Backing. Secondary Backing adds resistance to water degradation and strengthens grip on fibers.
 - 9. The entire backing shall be coated with holes perforated throughout the backing at the Synthetic Turf Manufacturer's recommended interval to allow for drainage. Partially coated backings or latex coating materials shall not be acceptable.
 - 10. Product Specifications Turf:
 - a. Linear Density Mono/Slit (Denier) ASTM D 1577 7,200/5,000

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SYNTHETIC FIELD SPORT SURFACING 32 18 23.29 - 6

San Mateo-Foster City School District - Synthetic Turf Projects at Five Campuses Criteria Document /December 21, 2021/ HMC Architects

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- Yarn Thickness Mono b.
- Pile Weight C.
- Finished Pile Height d.
- Product Weight (total e.
- Primary Backing Wei f.
- Secondary Coating V g.
- Fabric Width h.
- Tuft Gauge i.
- Grab Test Strength A
- Tuft Bind (Avg.) k.
 - Infilltrometer

D. Markings:

- rolls.
- vellow.
- 3. or tufted. The lines shall be blue.
- 4. inlaid or tufted. The lines shall be blue.
- 5.
- 6. the field, as well as player and coacher's boxes.

PADDING 2.03

- Padding shall be Brock USA LLC. PowerBase YSR Α. 3090 Sterling Circle, Suite 102 Boulder, Colorado, 80301
 - individually and recyclable.
 - 2.
 - 3.
 - Padding shall consist of piston shaped pads. 4.
 - 5. degree temperatures.
- INFILL 2.04
 - Α. Infill shall be Brock USA LLC. BrockFILL 3090 Sterling Circle, Suite 102 Boulder, Colorado, 80301

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no/Slit	ASTM D 3218	300/100 microns
	ASTM D 5848	35.0 oz/square yard
	ASTM D 5823	2.0"
al)	ASTM D 5848	63 oz/square yard
eight	ASTM D 5848	8 oz/square yard
Weight	ASTM D 5848	20 oz/square yard
	ASTM D 5793	15'
	ASTM D 5793	1/2"
Avg.	ASTM D 5034	>200 lbF
	ASTM D 1335	>10 lbF
	ASTM D 3885	>25

1. The perimeter white and yellow lines can be tufted into the individual sideline

2. Field of play lines for soccer, including soccer penalty kick circle, shall be inlaid and tufted. The lines for soccer including soccer penalty kick circle shall be

All field of play lines for lacrosse, including team and official areas, shall be inlaid

Field of play lines for field hockey, including team and official areas, shall be

Field of play lines for football (except hash marks, which can be painted) shall be inlaid or tufted. The lines for football shall be white.

For football sideline vardage markers conforming to NCAA, NFHS and/or CIF recommendations shall be inlaid. These shall include markers in 10 yard increments including goal line on both sides of the field and the entire length of

7. Field of play lines for baseball, shall be inlaid or tufted. Lines shall be white.

8. Field of play lines for softball, shall be inlaid or tufted. The lines shall be white.

(877) 276-2587

www.brockusa.com

1. Padding shall be made from expanded polypropylene, each panel molded

Padding shall contain large channels to transport water to the collector system along the edge. Drainage channels must align at panel intersections.

Padding shall be constructed with stairstep interlocking edges.

Padding shall include 4 mm crush ribbing to regulate thermal expansion to 130

(877) 276-2587 www.brockusa.com

SYNTHETIC FIELD SPORT SURFACING 32 18 23 29 - 7

- B. BrockFILL organic infill for synthetic turf of the following characteristics:
 - 1. Infill shall be an engineered wood particle comprised of virgin natural pine wood grown and manufactured in the USA.
 - Infill shall be free of pesticides and heavy metals. 2.
 - Infill shall maintain a vertical drainage rate that exceeds that of the artificial turf 3. when tested alone according to test method ASTM F-1551.
 - Infill shall not materially degrade as an infill defined as a minimum of 80% of the 4. material will fall between sieve screens of .8 mm - 2 mm when tested according to BS EN 933-1:2012.
 - Infill shall be made from a species of tree that is sustainably harvested. 5.
 - Infill shall be domestically sourced made in the USA only. 6.
 - Infill shall have a minimum of a 10 year warranty. 7.
 - Infill must be hydrophilic and allow absorption of rain or condensation. 8.
 - Infill must have a minimum bulk density of 15 lbs/cu ft. 9.
 - 10. Infill color shall be natural to medium brown.

END OF SECTION

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PLANTING IRRIGATION

PART 1 - GENERAL

- **RELATED DOCUMENTS** 1.1
- A. and Division 1 Specification Sections, apply to this Section.
- 1.2 SUMMARY
- A. underground irrigation system as shown on Drawings.
- В. sprinklers, specialties, controls, and wiring for automatic control irrigation system.
- C. Related Sections include the following: 1. 01 56 39 Temporary Tree and Plant Protection.
 - 2. 32 90 00 Planting.
- 1.3 DEFINITIONS
 - audits by the Irrigation Association Certification Board.
 - В. Piping is under pressure during flow.
 - C. Mainline Piping: Downstream from point of connection to water distribution piping to, and including, control valves. Piping is under water-distribution-system pressure.
 - D. The following are industry abbreviations for plastic materials: ASME: American Society of Mechanical Engineers. ASTM: American Society for Testing and Materials. AWG-UF: American Wire Gauge - Underground Feeder NFPA: National Fire Protection Association. PSIG: Pounds per Square Inch Gauge. PVC: Polyvinyl Chloride Plastic. SDR: Standard Direct Ratio. V[.] Volt
- PERFORMANCE REQUIREMENTS 1.4
- A.

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SYNTHETIC FIELD SPORT SURFACING 32 18 23 29 - 8

SECTION 32 84 00

Drawings and general provisions of the Contract, including General and Supplementary Conditions

Provide complete, automatically controlled, spray sprinkler, turf rotor, bubbler and/or drip

This Section includes but is not limited to: excavating, backfilling, finish grading, piping, valves,

A. Certified Landscape Irrigation Auditor (CLIA): a person certified to perform landscape irrigation

Lateral (Circuit) Piping: Downstream from control valves to sprinklers, rotors and specialties.

Location of Sprinklers, Rotors and Specialties: Design location is approximate. Make minor adjustments necessary to avoid plantings and obstructions such as signs and light standards.

> PLANTING IRRIGATION 32 84 00 - 1

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Maintain 100 percent, head to head, water coverage of turf and planting areas indicated with uniform coverage and minimum over-spray onto paving and no spray onto buildings or structures.

- Minimum Working Pressures: The following are minimum rated pressure requirements for piping, Β. valves, and specialties, unless otherwise indicated:
 - 1. Irrigation Main Piping: 200 psig.
 - 2. Lateral (Circuit) Piping: 150 psig.
- Irrigation Schedule: In accordance with DSA Title 24, Part 1 Outdoor Water Use Requirements, C. Contractor shall prepare two (2) - three (3) irrigation schedules, one for plant establishment, one for the established landscape and one for temporarily irrigated areas if applicable. Each schedule shall indicate the number of gallons used and shall target the Estimated Total Water Use (ETWU) and not exceed the Maximum Applied Water Allowance (MAWA) calculated on the Irrigation Plan "California Water Efficient Landscape Worksheet." Irrigation Schedule shall be submitted at substantial completion. After acceptance of substantial completion. Contractor shall laminate schedule in plastic and place in controller enclosure prior to final completion and end of maintenance. In preparing the Irrigation Schedule, the Contractor shall consider the following:
 - Irrigation interval (days between irrigation). 1.
 - 2. Irrigation run times.
 - Number of cycle starts to avoid runoff. 3.
 - Amount of applied water scheduled to be applied on a monthly basis. 4.
 - Application rate setting. 5.
 - 6. Root depth setting.
 - Plant type setting. 7.
 - 8. Soil type.
 - 9. Slope factor setting.
 - Shade factor setting. 10.
 - 11. Irrigation uniformity or efficiency setting.
- DELIVERY, STORAGE, AND HANDLING 1.5
- Deliver piping with factory-applied end caps. Maintain end caps through shipping, storage, and Α. handling to prevent pipe-end damage and to prevent entrance of dirt, debris, and moisture.
- Store plastic piping protected from direct sunlight. Support to prevent sagging and bending. В.
- 1.6 **PROJECT CONDITIONS**
- Interruption of Existing Water Service: Do not interrupt water service to facilities occupied by Owner A. or others unless permitted under the following conditions and then only after arranging to provide temporary water service according to requirements indicated:
 - Notify Owner's Representative no fewer than two days in advance of proposed interruption 1. of water service.
 - Do not proceed with interruption of water service without Owner's Representative's written 2. permission.
- Interruption of Existing Irrigation Service: Do not interrupt existing to remain irrigation service. Prior В. to demolition work and prior to beginning irrigation work, review project site and meet with Owner Representative to review locations and connections of existing to remain irrigation system. Coordinate with General Contractor to ensure existing irrigation remains in place and operable

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through the duration of construction. In the event existing irrigation is shut off or damaged during construction, contractor shall provide temporary connections or modifications to continue water service to existing to remain planting material or turf to maintain in a healthy growing condition throughout construction. In the event water service is not available, contractor shall apply water through manual delivery means as necessary. Obtain approval from Owner's Representation two days in advance of any planned disruptions in water service.

- 1.7 COORDINATION
- Α. reinforcement, and formwork requirements are specified in Division 3.
- MAINTENANCE 1.8
- A.
- PART 2 PRODUCTS
- MANUFACTURERS 2.1
- Use new materials of brands shown or drawings, specified herein or approved equal. Α.
- Use existing materials if shown on drawings. Β.
- C. equipment standards.
- 2.2 PIPES, TUBES, AND FITTINGS
- Α. ends.
 - galvanized, seamless steel pipe with threaded ends.
 - 2.
 - 3.
 - Cast-Iron Flanges: ASME B16.1, Class 125. 4.
 - Cast-Iron Flanged Fittings: ASME B16.1, Class 125, galvanized. 5.
- Mainline Piping (unless otherwise indicated on Drawings): Β.
 - approved (size 6" and larger).
 - 2. 4")
 - 3. smaller).

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Coordinate size and location of concrete bases. Cast anchor-bolt inserts into bases. Concrete,

Irrigation maintenance shall coincide with planting maintenance, refer to Specification 32 90 00 "Planting". In the event planting is not part of this work, maintenance shall begin at written approval from Owner's Representative of substantial completion, run ninety (90) calendar days and until receipt of Owner's Representative's written acceptance of completion of punch list items.

Substitution of sprinklers, rotors, drip, valves and controllers will not be allowed due to variation in flows, precipitation rates, friction losses, and sizing and maintaining consistency with client

Steel Pipe: ASTM A 53/A 53M, Schedule 40, Type S or E, Grade A or B, galvanized with threaded

1. Steel Pipe Nipples: ASTM A 733, made of ASTM A 53/A 53M or ASTM A 106, Schedule 40,

Malleable-Iron Unions: ASME B16.39, Class 150, hexagonal-stock body with ball-andsocket, metal-to-metal, bronze seating surface, and female threaded ends.

Gray-Iron Threaded Fittings: ASME B16.4, Class 125, galvanized, standard pattern.

1. Class 200 (C900), gasketed, purple reclaimed water PVC pipe, ASTM D-2241, NSF

Class 315 purple reclaimed water PVC pipe, ASTM D 1785, NSF approved (size 2-1/2" to

Schedule 40 purple reclaimed water PVC pipe, ASTM D 2466, NSF approved (size 2" and

PLANTING IRRIGATION 32 84 00 - 3

- Fittings to be schedule 80 PVC, unless indicated otherwise on drawings. 4.
- Lateral Line Piping (unless otherwise indicated on Drawings): C.
 - Schedule 40 purple reclaimed water PVC pipe, ASTM D 2466, NSF approved. 1.
 - 2. Fittings to be schedule 40 PVC, unless indicated otherwise on drawings.
- Sleeves (unless otherwise indicated on Drawings): D.
 - 1. For irrigation piping, use schedule 40 purple PVC pipe, NSF approved, 3" minimum in size for irrigation piping.
 - For irrigation wiring, use schedule 40 PVC pipe, UL listed, NEMA TC-6, ANSI/UL651, ASTM 2. F512, for outdoor, direct bury applications, PVC, 3" minimum size.
 - Fittings to be schedule 40 PVC, unless indicated otherwise on drawings. 3.
- VALVES: 2.3
 - BACKFLOW PREVENTION DEVICE: As indicated on the Drawings. Α.
 - QUICK-COUPLERS: As indicated on the Drawings. B
 - VALVE BOXES: C.
 - In paved areas, use Christy concrete utility box, size as required. 1.
 - In planting areas, use Christy plastic underground enclosure. Boxes shall have locking lid, 2. bolt and washer, size as required, color to be green in turf areas, black in planting areas and purple for recycled water systems.
 - 3. Valve boxes to be rectangular for remote control valves and ball or gate valves and round for quick coupling valves.
 - Valve box lids shall be labeled "IRRIGATION". 4.
 - PULL BOXES AND SPLICE BOXES: D.
 - In paved areas, use Christy concrete utility box, size as required. 1.
 - In planting areas, use Christy plastic underground enclosure. Boxes shall have locking lid, 2. bolt and washer, size as required, color to be green in turf areas, black in planting areas, and purple for recycled water.
 - Valve boxes to be rectangular for remote control valves and ball or gate valves and round 3. for quick coupling valves.
 - Valve box lids shall be labeled "IRRIGATION". 4.
 - WIRE MESH AT VALVE BOXES: 1/2 inch by 1/2 inch, 16 gauge, galvanized wire mesh hardware E. cloth.
 - VALVE IDENTIFICATION TAGS: Shall be plastic yellow in color for potable water systems and F. purple in color for recycled water systems with 1 1/8" stamped black letters indicating controller/station number.

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- G. equivalent and a pH value between 4.5 and 9.
- н on Drawings.
- Drawings.
- AUTOMATIC CONTROL SYSTEM: 24
 - Α. CONTROLLER: As indicated on Drawings.
 - В. by manufacturer for installation method detailed on this project.
 - C. and spare common insulation shall be black in color.
 - connector or crimped joint and epoxy resin moisture seal; suitable for direct burial.
 - E. CONNECTORS: Shall be or 3M "DBY" connectors or equal
- TRACER WIRE/DETECTABLE WARNING TAPE: 2.5
 - Install tracer wire or detectable warning tape as indicated on Drawings. Α.
 - В. Tracer Wire: #8 solid Bare Copper Wire.
 - C. "caution buried water line".
- 2.6 CONCRETE THRUST BLOCKING:
 - Α. mixture with a 28-day compressive strength of 2,500 psi.
- 2.7 SPRINKLERS, DRIP SYSTEM, BUBBLERS, EMITTERS:
 - Α. As indicated on Drawings.

END OF SECTION

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SAND BACKFILL: shall consist of natural sand, manufactured sand, existing of native material, or combinations thereof, and shall conform to ASTM c-40 organic impurities, ASTM d-2419 sand

VALVE BOX ROCK: shall be 3/4" or smaller drain rock or pea gravel unless specified otherwise

VALVE BOX SUPPORT BRICK: shall be common red brick unless specified otherwise on

AUTOMATIC CONTROLLER GROUNDING: Contractor shall install grounding recommended

WIRING: All 24 v line to be #14-1 awg-uf. Control wire insulation to be red in color and spare wire to be yellow in color. 24 v common wire to be #12-1 awg-uf, insulation to be white in color

D. SPLICING MATERIALS: manufacturer's packaged kit consisting of insulating, spring-type

Detectable Warning Tape: Electronically detectable plastic tape with metallic core, Terra Tape D, manufactured by Griffolyn Co., or equal, two (2) inches in width, continuously imprinted

Shall be clean, Portland cement concrete, cast in place, five sacks of cement per cubic yard

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PLANTING IRRIGATION 32 84 00 - 5

SECTION 32 90 00

PLANTING

PART 1 - GENERAL

- RELATED DOCUMENTS 1.1
 - Drawings and general provisions of the Contract, including General and Supplementary A. Conditions and Division 1 Specification Sections, apply to this Section,
- SUMMARY 1.2
- This Section includes the following:
 - 1. Trees.
 - 2. Shrubs.
 - 3. Ground cover.
 - 4. Vines.
 - 5. Edgings.
 - 6. Planters.
 - 7. Bio-retention Basin.
- Related Sections include the following: В.
 - Specification Section 01 56 39 "Temporary Tree and Plant Protection". 1.
 - Specification Section 31 05 13 "Earthwork" for excavation, filling and rough grading and for 2. subsurface aggregate drainage and drainage backfill materials.
 - Specification Section 32 84 00 "Planting Irrigation". 3.
- DEFINITIONS 1.3
 - Container-Grown Stock: Healthy, vigorous, well-rooted exterior plants grown in a container with Α. well-established root system reaching sides of container and maintaining a firm ball when removed from container. Container shall be rigid enough to hold ball shape and protect root mass during shipping and be sized according to ANSI Z60.1 for kind, type, and size of exterior plant required.
 - Finish Grade: Elevation of finished surface of planting soil. Β.
 - Import Topsoil: Shall be obtained from a local source and coming from a site with similar soil C. characteristics as the project site. Topsoil shall be fertile, friable, natural loam surface soil, reasonably free of subsoil, clay lumps, brush, weeds and other litter and free of roots, stumps, stones and rocks and other extraneous or toxic matter harmful to plant growth.
 - Manufactured Topsoil: Soil produced off-site by homogeneously blending mineral soils or sand D. with stabilized organic soil amendments to produce topsoil or planting soil.

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- twelve (12) inches of original, undisturbed surface soil containing organic material, microplant life by an approved soil analysis laboratory.
- F. Planting Soil: On-site topsoil, import topsoil or manufactured topsoil.
- G of a fill or backfill, before placing planting soil.
- H. Shrubs, Vines, Perennials, Annuals and/or Ground Covers,
- L. Substantial completion for landscape and irrigation: Work shall be considered substantially by Owner's Representative.
- J. submitted in writing by Owner's Representative.
- INSTALLER QUALIFICATIONS 14
- Installer Qualifications: A.
 - 1. Experience: The landscape installation firm shall have contracted for and successfully years of similar size, complexity, budget and scope.
 - 2.
 - Supervision: The landscape installation firm shall have a qualified and experienced 3. landscape technician on site during landscape installation.
- SOIL ANALYSIS 1.5
- A. to conduct the testing indicated and that specializes in types of tests to be performed.
- Β. boron, mineral and plant-nutrient content of planting soil.
 - 1. satisfactory planting soil.

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E. On-site Topsoil: Naturally occurring, on-site, surface soil, usually occurring in the top four (4) to organisms, necessary nutrients and minerals to sustain plant growth and be approved to sustain

Subgrade: Surface or elevation of subsoil remaining after completing excavation, or top surface

Plant material: Exterior plants contained within the planting plan legend in categories of Trees,

complete when irrigation, planting, turf planting and seeding are installed correctly per plans and specifications with only minor adjustments required and approval has been submitted in writing

Final completion for landscape and irrigation: Work shall be considered complete when irrigation, planting, turf planting and seeding are installed correctly per plans and specifications and the maintenance period has been completed per plans and specifications and approval has been

completed construction of a minimum of five (5) California public school district construction projects, approved by the Division of the State Architect (DSA), within the past five (5)

Licensure: The landscape installation firm shall hold a current, active C27 "Landscaping Contractor" license classification by the California State License Board that has been consistently active for at least five (5) years and that has not been suspended or revoked.

Soil Analysis Laboratory Qualifications: Testing laboratory shall be Lucchesi Plant and Soil Consulting, LLC., www.lucchesiconsulting.com,(408) 337-2575, or approved equal independent laboratory, recognized by the State Department of Agriculture, with the experience and capability

Soil Analysis: Furnish soil analysis by a qualified soil analysis laboratory stating percentages of organic matter; gradation of sand, silt, and clay content; cation exchange capacity (CEC) or total exchangeable cations (TEC); sodium absorption ratio; deleterious material; pH; soluble salts,

Report suitability of planting soil for plant growth. State recommended quantities of nitrogen, phosphorus, and potash nutrients and soil amendments to be added to produce a

> PLANTING 32 90 00 - 2

1.6 **OBSERVATION**

- Owner's Representative may observe trees and shrubs either at place of growth or at site before A. planting for compliance with requirements for genus, species, variety, size, and quality. Owner's Representative retains right to observe trees and shrubs further for size and condition of balls and root systems, insects, injuries, and latent defects and to reject unsatisfactory or defective material at any time during progress of work. Remove rejected trees or shrubs immediately from Project site.
 - Notify Owner's Representative of sources of planting materials 30 days in advance of 1. delivery to site.
 - 2. Prior to Owner's Representative review of plant material, trees shall be neatly spaced approximately 5' apart (minimum) to allow for access in and around each tree and far enough to visually review each tree canopy without obstruction from other tree and/or shrub canopies.
- DELIVERY, STORAGE, AND HANDLING 1.7
- Notify Owner's Representative fourteen (14) days prior to anticipated plant material delivery to A. schedule review of plant material prior to installation.
- Β. Do not prune trees and shrubs before delivery, except as approved by Owner's Representative. Protect bark, branches, and root systems from sun scald, drying, sweating, whipping, and other handling and tying damage. Do not bend or bind-tie trees or shrubs in such a manner as to destroy their natural shape. Provide protective covering of exterior plants during delivery. Do not drop exterior plants during delivery.
- C. Handle planting stock by root ball.
- Deliver exterior plants after preparations for planting have been completed and install D. immediately. If planting is delayed more than six hours after delivery, set exterior plants trees in shade, protect from weather and mechanical damage, and keep roots moist.
 - 1. Do not remove container-grown stock from containers before time of planting.
 - Water root systems of exterior plants stored on-site with a fine-mist spray. Water as often 2. as necessary to maintain root systems in a moist condition.

1.8 **PROJECT/SITE CONDITIONS**

- Prior to placing topsoil, Contractor shall collect and submit soil samples representative of on-site A. topsoil and/or import topsoil proposed for use in all planting and lawn areas to a soil analysis laboratory for analysis and soil amending recommendations. Submit test results analysis and recommendations to Owner's Representative for review and approval prior to beginning work.
- Weather Limitations: Proceed with planting only when weather conditions permit. Β.
- C. Coordination with Lawns: Plant trees and shrubs after finish grades are established and before planting lawns, unless otherwise acceptable to Owner's Representative.
 - 1. When planting trees and shrubs after lawns, protect lawn areas and promptly repair damage caused by planting operations.

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PLANTING 32 90 00 - 3

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- D. temperatures.
- WARRANTY 1.9
- A. Contractor's control.
 - 1. of Final Completion.
 - 2. the succeeding planting season.
 - 3. end of warranty period.
 - 4. replacements due to failure to comply with requirements.
- 1.10 MAINTENANCE
 - A. disease. Refer to "Maintenance Schedule."
 - approval of Substantial Completion of the planting and irrigation.
 - 2. established as determined by the Owner's Representative.

PART 2 - PRODUCTS

- TREE. SHRUB AND VINE MATERIAL 2.1
 - A. scald, injuries, abrasions, and disfigurement.
- Β. Owner's Representative, with a proportionate increase in size of roots or balls.
- C. waterproof tag bearing legible designation of botanical and common name.
- D. height and spread, and number label to assure symmetry in planting.

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Contractor shall protect new plantings and/or delay planting in event of forecasted freezing

Special Warranty: Warrant the following exterior plants, for the warranty period indicated, against defects including death and unsatisfactory growth, except for defects resulting from lack of adequate maintenance, neglect, or abuse by Owner or users, or incidents that are beyond

Warranty Period for Trees, Shrubs, Vines, Lawns and Ground Covers: One year from date

Remove dead exterior plants immediately. Replace immediately unless required to plant in

Replace exterior plants that are more than 25 percent dead or in an unhealthy condition at

A limit of one replacement of each exterior plant will be required, except for losses or

Plant Material and Planting Areas: Maintain for the following maintenance period by pruning, cultivating, watering, weeding, fertilizing, restoring planting basins, tightening and repairing stakes and guy supports, and resetting to proper grades or vertical position, as required to establish healthy, viable plantings. Spray as required to keep trees and shrubs free of insects and

1. Maintenance Period: Ninety (90) days from date of Owners Representative's written

In the event plant material fails during the maintenance period due to Contractor negligence, the maintenance period shall extend until 90% of the plant material is

General: Furnish nursery-grown trees and shrubs complying with ANSI Z60.1, with healthy root systems developed by transplanting or root pruning. Provide well-shaped, fully branched, healthy, vigorous stock free of disease, insects, eggs, larvae, and defects such as knots, sun

Grade: Provide trees and shrubs of sizes and grades complying with ANSI Z60.1 for type of trees and shrubs required. Trees and shrubs of a larger size may be used if acceptable to

Label at least one tree and one shrub of each variety and caliper with a securely attached,

If formal arrangements or consecutive order of trees or shrubs is shown, select stock for uniform

PLANTING 32 90 00 - 4

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Provide plant material as specified on the Drawings including size, genus, species and variety. Ε.

2.2 SINGLE-TRUNK AND MULTI-TRUNK TREES

- Trees: Single-trunk or multi-trunk trees with straight trunk, well-balanced crown, and intact A. leader, of height and caliper indicated, complying with ANSI Z60.1 for type of trees required.
 - 1. Branching Height: typical of tree species and container size, single trunk unless specified as multi-trunk on Planting Plan Legend. Select branching height in accordance with planting location. Low branching trees shall not be planted in conflict with pathways, driveways and/or structures.
 - 2. Single-stem trees shall have straight trunk, well-balanced crown, and intact leader, of height and caliper indicated, complying with ANSI Z60.1 for type of trees required.
 - Multi-stem trees shall branch naturally according to species and type, with relationship of 3. caliper, height, and branching according to ANSI Z60.1.
- GROUND COVER PLANTS 2.3
- A. Ground Cover: Provide ground cover of species indicated, established and well rooted in pots or similar containers, and complying with ANSI Z60.1.

2.4 PLANTS

- Annuals: Provide healthy, disease-free plants of species and variety shown or listed. Provide A. only plants that are acclimated to outdoor conditions before delivery and that are in bud and bloom.
- Β. Perennials: Provide healthy, field-grown plants from a commercial nursery, of species and variety shown or listed, remove dead flowers.

TOPSOIL 2.5

- Prior to placing bid, Contractor to coordinate with General Contractor, Demolition and/or Grading A Contractors and verify quantity and source of planting soil for all planting areas. Identify Contractor responsible for stockpiling on-site topsoil and/or acquiring import planting soil and installing a minimum of twelve (12) inches of planting soil in all landscape planting areas and any raised planters and rough grading in accordance with these specifications, details, notes, grading and drainage plans.
- Β. Coordinate with General Contractor, Demolition and/or Grading Contractors for removal and replacement of lime treated soils and replacement with planting soil prior to planting to depth required to remove lime treatment. In event trees are planted in lime treated soils, trees shall have a minimum six (6) inch layer of planting soil below their rootball to provide a suitable substrate to root into for establishment.
- C. On-site topsoil: Re-use existing topsoil or existing surface soil, top twelve (12) inches excavated and stockpiled on-site. Verify suitability of existing and/or stockpiled surface soil to produce planting soil by submitting a sample to a soil analysis laboratory. Acceptable on-site topsoil shall be ASTM D 5268, pH range of 5.5 to 7.5 (5.8 to 7.8 for predominantly California native plant species), representative of productive soils in the vicinity, a range of 4 to 20 percent organic material content; free of stones one (1) inch or larger in any dimension, roots, plants, sod, clay lumps and other extraneous materials harmful to plant growth. Sodium absorption rate (SAR)

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2.

shall not exceed 5.0, conductivity of the saturation extract solution shall not exceed 3.0, and boron concentration in the saturation shall not exceed 1.0 ppm. Fine gravel (2-5 mm) and coarse gravel (5-12 mm) content shall not exceed 30%.

- D. topsoil shall meet the following requirements:
 - 1. loam.

Class	Particle size range	maximum, %	minimum, %	
Coarse Sand	0.5 – 2.0 mm	15	0	
Silt	.00205 mm	30	10	
Clay	<.002 mm	25	10	
Other Classes	<u> </u>			
Grave	- 2-13 mm	15	0	
Rock	1⁄2-1 inch	5% by volume with	none >1 inch	
Organic		15	4	
Chemistry – S	uitability Consideration	s		
-				
•	ess than 3.0 dS/m @ 25	• • •		
	odium Adsorption Ratio	•		

- 3. Sodium Adsorption Ratio (SAR) Less than 6 ppm Boron: Saturation Extract Concentration Less than 1.00 ppm
- 4. provisions shall be made to add required materials prior to planting.
- 5.
- **BIO-RETENTION BASIN** 2.6
 - Refer to civil drawings for construction of bio-retention basin swales. A.
 - В. plans and/or details.
- 2.7 FERTILIZER AND SOIL AMENDMENTS

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Import Topsoil: Supplement with imported or manufactured topsoil from off-site, local sources, when quantities of on-site topsoil are insufficient. Do not obtain topsoil from bogs or marshes. If soil is obtained from agricultural land, Contractor shall submit proof soil is nematode free. Import

USDA Classification of fraction passing 2.0 mm sieve: sandy loam, sandy clay loam or

Reaction: pH of Saturated Paste: 5.5 - 7.5 without high lime content.

Soil to contain sufficient quantities of available nitrogen, phosphorus, potassium, calcium and magnesium to support normal plant growth. In the event of nutrient inadeguacies,

Soil Analysis: Contractor shall submit to the Owner's representative for approval, certification from an agricultural soils analysis laboratory that the import topsoil provided conforms to the specifications prior to delivery of import or placement on on-site topsoil. Soil analysis shall have been performed on import topsoil source within the previous year.

Line bio-retention basin swale with Lenox Blend soil mixture available from LH Voss Materials, Inc. 2445 Del Vista Monte, Concord, CA 94520, www.lhvoss.com, (800) 660-8677, Rob Hawkins x 108, Butch Voss x 109. Depth shall be a minimum of 18" unless specified otherwise within

> PLANTING 32 90 00 - 6

- Contractor shall collect and submit sample of proposed planting soil, representative of the top A. eight (8) inches of planting soil, to a locally known soil analysis laboratory, soil analysis laboratory for analysis and amendment recommendations. Sample shall be representative of typical on-site topsoil proposed for use in planting areas.
- If import topsoil is proposed, import topsoil sample shall be submitted to a soil analysis laboratory В. locally known for analysis, amendment recommendations and installation recommendations.
- Contractor shall provide soil analysis laboratory, the following information when submitting soil for C. analysis:
 - 1. Project type (public school, commercial building, etc.).
 - Anticipated maintenance (regular, low, none, etc.). 2.
 - 3. Irrigation water source (potable or recycled).
 - 4. Proposed plant material type such as California native plants, turf, shrub and ground covers.
 - Copy of this specification. 5.
- D. Fertilizers: All fertilizers shall be of an approved brand with a guaranteed chemical analysis as required by USDA regulations and shall be dry and (except for plant tabs) free flowing.
- E. Nitrogen Stabilized Organic Soil Amendment: 0-1/4 inch nitrogen-stabilized organic amendment contributing at least 270 pounds of organic matter per cubic yard. Consider using Composted Greenwaste Organic Soil Amendment, such as Z-Best Organic Compost from Zanker Landscape Materials (www.zankerlandscapematerials.com) or equal if recommended by soil analysis laboratory. Compost shall be obtained from a supplier participating in the Seal of Testing Assurance (STA) program of the U.S. Composting Council.
 - 1. In order to comply with MWELO 492.6. 3. (C). Soil Preparation. Mulch and Amendments. at a minimum, compost shall be applied at a rate of four (4) cubic yards per 1,000 square feet of permeable area incorporated to a depth of six (6) inches into the soil. Soils with greater than 6% of organic matter in the top six (6) inches are exempt from adding compost.
 - 2. Nitrogen stabilized sawdust shall not be used.
- F. Soil Preparation: The following materials and quantities are given for bidding purposes only and Contractor shall amend soil using products, guantities and methods specified by soil analysis laboratory.
 - Nitrogen stabilized organic amendment. 1.
 - All purposed granular fertilizer (6-20-20). 2.
 - 3. Soil sulfur.
- Planting Tablets: 21 gram controlled release fertilizer supplying nitrogen for up to 1 ½ years and G. 20-10-5 content.
- Backfill Mix: Shall be a mixture of on-site or import topsoil, nitrogen stabilized organic н. amendment and fertilizer. For bidding purposes, backfill mix shall include 2/3 topsoil and 1/3 nitrogen stabilized organic amendment with 6-20-20 granular fertilizer, quantity per manufacturer, according to container or root stock size, mixed thoroughly,

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MULCHES 2.8

- A. approximately $\frac{3}{4}$ " x $\frac{1}{2}$ " x 6" in size of 2.5 cubic inches in volume.
- Β. Owner's Representative for review and approval.
- C. review and approval.
- HERBICIDES 2.9
 - Pre-emergent: Oryzalin, or approved equal. A.
 - Β. manufacturer for application.
 - C. and/or procedures for application, posting and notifications.
- 2.10 STAKES AND GUYS
 - A. Upright and Guy Stakes: Rough-sawn, sound, new hardwood, redwood, or pressuredefects, two (2) inches in diameter by length required, and pointed at one end.
 - Β. inch in diameter.
 - C. minimum of 3 inches long, with two 3/8-inch galvanized evebolts.
 - D. 6562 (www.sullivanandmann.com).
- Flags: Standard surveyor's plastic flagging tape, white, 6 inches long. Ε.
- 2.11 LANDSCAPE EDGINGS/HEADERBOARD
- A. Wood Strip Edging, unless indicated otherwise on Drawings, shall be as follows:
 - 1. Species: Construction Heart Redwood, size per detail.
 - 2. edging.
 - 3. galvanized nails for securing in place.

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Due to variation in mulch sizes, Contractor shall remove large bark mulch in excess of

Organic Mulch for non-bio-retention planting areas: Free from deleterious materials and suitable as a top dressing of trees and shrubs, consisting of organic bark from Pacific Landscape Supply (209) 593-1199, www.pacificlandscapesupply.com, or approved equal. Submit sample to

Organic Mulch for Bio-retention basin swales: Free from deleterious materials and suitable as a top dressing of trees and shrubs, consisting of organic shredded cedar bark from Sun Gro Horticulture (800) 222-2551, or approved equal. Submit sample to Owners Representative's for

Selective and non-selective Herbicides: EPA registered and approved, of type recommended by

Contact Owner and obtain School District, Local, State and Federal policies and procedures for regulating application of chemical controls. Contractor shall comply with all applicable policies

preservative-treated Douglas Fir or Lodgepole Pine, free of knots, holes, cross grain, and other

Guy and Tie Wire: ASTM A 641/A 641M, Class 1, galvanized-steel wire, 2-strand, twisted, 0.106

Guy Cable: 5-strand, 3/16-inch- diameter, galvanized-steel cable, with zinc-coated turnbuckles, a

Tree Ties: Z-Strap tree ties, or equal, made of one (1) inch wide by ¹/₄" thick black recycled tire rubber with pre-punched nail holes. Contact Sullivan & Mann Lumber Company, Inc. (800) 847-

Stakes: Construction heart redwood, size per detail, with galvanized nails for anchoring

Splice Plate: Same species as edging, 1 by 6 by 24 inches long in nominal size, with

PLANTING 32 90 00 - 8

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- 2.12 WATER
- Water shall be suitable for irrigation and free from ingredients harmful to planting areas. A.
- POTTING SOIL 2.13
 - Potting soil shall be Supersoil® or approved equal potting soil, blend of organic materials, natural A. and traditional fertilizers, formulated for outdoor container plants with no fertilizing required for up to ninety (90) days after planting.
- 2.14 MISCELLANEOUS PRODUCTS
 - Tree Trunk Guard: nine (9) inch high by four (4) inch diameter plastic, corrugated tube, Arbor A. Guard + or equal.
 - Tree Root Barriers: 18" high by 24" wide, interlocking panels of not less than 0.080" (2.032 mm) Β. thickness, black in color, at least 50% recycled material, injection molded plastic product for linear applications with ultra-violet inhibitors with anti-lift ground lock tabs, vertical root deflecting ribs and double top edge consisting of two parallel, horizontal ribs on the top.
 - Jute Netting: Biodegradable in two (2) to three (3) years from installation, absorbing water four to C. five times fabric weight, open area 60% to 65%, available in rolls four (4) feet in width. Use galvanized steel staples as recommended by manufacturer to secure netting in place.

END OF SECTION

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SECTION 33 41 00

- PART 1 GENERAL
- 1.1 RELATED DOCUMENTS
- Α.
- В.
- Section 31 23 00 "Excavation and Fill". C.
- 1.2 SUMMARY
- Α. This section includes the following: 1. Storm drainage.
- 1.3 DEFINITIONS
 - Α. water.

 - 2. storm drain system.
 - В.
 - C. and 12-inches above all storm and sewer piping and structures.
 - D. depth of the bedding.
- E. Softscape: Landscape areas planted with vegetation (pervious).
- F. Hardscape: Areas paved or intended for foot travel (impervious).
- SUBMITTALS 1.4

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PLANTING 32 90 00 - 9

STORM DRAINAGE

Civil drawings, including but not limited to 1-C2.1, 2-C2.1, 3-C2.1, 4-C2.1, & 5-C2.1

General provisions of Contract Agreement form, including appendices and exhibits.

Drainage Piping: System of pipe, fittings, and appurtenances for gravity flow of storm

1. Storm Drains: The primary drainage conduit system conveying storm water runoff from catch basins to storm water ponds or other points of release. Area Drains: A secondary system of drainage conduits conveying storm water collected from building roof drains and local area drain basins to the primary

Sewerage Piping: System of sewer pipe, fittings, and appurtenances for collection of wastewater and for its conveyance by gravity flow to public sanitary sewage systems.

Bedding: Shall be the material placed to a minimum depth of 4-inches (102-mm) below

Backfill: Shall be that material used to fill trenches and excavated areas above the

STORM DRAINAGE 33 41 00 - 1

- General: Submit each item in this Article according to the Conditions of the Contract Α. and Division 1 Specification Sections.
- Product data for the following: Β.
 - 1. Drop inlets, area drain boxes and in-line drain boxes.
- C. Shop drawings for precast concrete manholes and other structures. Include frames, covers, and grates.
- Shop drawings for cast-in-place concrete manholes and other cast-in-place structures. D. 1. Shop drawings for area drains, including frames, covers, and grate.
 - 2. Certificate of compliance for utility bedding (sewer, area drains, and storm drains).
 - Certificate of compliance for backfill bedding (sewer, area drains, and storm 3. drains).

QUALITY ASSURANCE 1.5

- Product Options: Drawings indicate sizes, profiles, connections, and dimensional Α. requirements of system components and are based on specific manufacturer types indicated. Other manufacturers' products with similar performance characteristics may be considered.
- Β. Safety Standards: All excavation should be constructed in accordance with OSHA and CAL-OSHA Safety Standards. Safety in and around utility trench is the responsibility of the underground contractors.

DELIVERY, STORAGE, AND HANDLING 1.6

- Do not store plastic structures in direct sunlight. Α.
- Do not store plastic pipe or fittings in direct sunlight. Β.
- Protect pipe, pipe fittings, and seals from dirt and damage. C.
- Handle precast concrete manholes and other structures according to manufacturer's D. rigging instructions.
- E. Properly support pipe during transport, handling, and storage. Maintain bracing and chocking in place until pipe is ready for installation.

PROJECT CONDITIONS 1.7

Notify Underground Service Alert (USA) at (800) 227-2600 for location and verification Α. of existing utility locations.

STORM DRAINAGE 33 41 00 - 2

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- conflicts exist that were not shown on the plans.
- С
 - permission.
- D. description of existing topographic and utility information.

1.8 SEQUENCING AND SCHEDULING

- Α. storm sewer interruptions.
- Β. suppression, communications conduits, etc.)

PART 2 - PRODUCTS

- the following:
- Β. the following for the entire project or approved substitute:
 - 1. Drop Inlets, Trench Drains and Drain Boxes:
 - Christy Concrete Products Inc. a. b. Hanson Concrete Products Inc.
 - Santa Rosa Products Inc. C.
 - 2. Area Drain (Inline and Drain Basins)
 - b. Christy Concrete products 3. Manholes:
 - Santa Rosa Products, Inc. а
 - Hanson Concrete Products. Inc. b.
 - 4. Slot Drains a. NDS
- 2.2 PIPES AND FITTINGS

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B. Locate existing structures and piping to be closed and abandoned. Verify that storm drain system piping may be installed in compliance with design and no underground

Existing Utility System: Do not interrupt existing utilities serving facilities occupied by the Owner or others except when permitted under the following conditions and then only after arranging to provide acceptable temporary utility services.

1. Notify Owner not less than 48 hours in advance of proposed utility interruptions.

2. Do not proceed with utility interruptions without receiving Owner's written

Site Information: See Section 31 1000 Site Clearing, Part 1.03 Project Conditions, for

Notify Owner's representatives a minimum of two working days in advance of proposed

Coordinate with other pipeline and utility work (gas, electric conduits, water, fire

A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated in the Work include, but are not limited to,

Manufacturers: Subject to compliance with requirements, provide products by one of a. Nyloplast® Advanced Drainage Systems, Inc. (ADS).

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- Polyvinyl Chloride (PVC) Sewer Pipe and Fittings: ASTM F 679, T-1 wall thickness, Α. bell and spigot for gasketed joints. 1. Gaskets: ASTM F 477, elastomeric seal.
- Polyvinyl Chloride (PVC), Profile, Gravity Sewer Pipe and Fittings: ASTM F 794, open Β. and closed profile, bell and spigot for gasketed joints.
 - 1. Gaskets: ASTM F 477, elastomeric seal to form watertight joints.
- Polyvinyl Chloride (PVC), Ribbed Drain Pipe: AASHTO M 304M, bell and spigot, with C. smooth waterway for bell-gasketed joints.
 - Fittings: AASHTO M 304M or ASTM F 794 for bell-gasketed joints. 1.
 - Gaskets: ASTM F 477, elastomeric seal to form soiltight joints. 2.
- Polyvinyl Chloride (PVC), Ribbed Drain Pipe: AASHTO M 304M, bell and spigot, with D. smooth waterway for bell-gasketed joints.
 - 1. Fittings: AASHTO M 304M or ASTM F 794 for bell-gasketed joints.
 - 2. Gaskets: ASTM F 477, elastomeric seal to form soiltight joints.

2.3 SPECIAL PIPE COUPLINGS AND FITTINGS

- Gasket-Type Pipe Couplings: Rubber or elastomeric compression gasket, made to Α. match outside diameter of smaller pipe and inside diameter of bell of adjoining larger pipe, for non-pressure joints.
 - 1. Gaskets for Plastic Pipe: ASTM F477, elastomeric seal.
 - 2. Gaskets for Dissimilar Pipes: Compatible with pipe materials being joined.
 - 3.

DRAIN BOXES 2.4

- On-Site Precast drain boxes: All precast drain boxes shown on, but not limited to the Α. civil plans. Inlets shall be precast, reinforced concrete of depth indicated.
 - 1. Christy 22"x22" V64

AREA DRAINS 2.5

- Onsite Area Drains: All area drains as shown on, but not limited to the Civil Drawings. Α. shall be in accordance with the following:
 - 1. ADS Form # 1074/94 "ADS Surface Drainage Products".
 - 2. Grate:
 - a. Hardscape Areas:
 - 1) 10" Bronze ADS standard light duty with locking device.
- CONCRETE 2.6

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STORM DRAINAGE 33 41 00 - 4

- **HMC** Architects
- - 1. Cement: ASTM C150, Type II.
 - 2. Fine Aggregate: ASTM C33, sand.
 - 3.
 - Water: Potable. 4.
- maximum water-cement ratio.
- - deformed steel.
- C.
 - 1. Include channels and benches in storm manholes.
 - 2.
 - Include channels and benches in storm drop inlets. 3.

 - b. finish.
 - 1) Slope: 0.5 inch per foot (1:24).
 - C.
 - d. Catch Basin Benches: Concrete, sloped to drain into channel 1) Slope: 0.5 inch per foot (1:24).
- BEDDING, AND BACKFILL 2.7
- Α. sieve and not more than 10 percent to pass a No. 200 sieve.
- B. Backfill:
 - monitored by Owner's Geotechnical Engineer

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A. General: Cast-in-place concrete according to ACI 318, ACI 350R, and the following:

Coarse Aggregate: ASTM C33, crushed gravel.

B. Structures: Portland-cement design mix, 4000 psi (27.6 MPa) minimum, with 0.45

1. Reinforcement Fabric: ASTM A185, steel, welded wire fabric, plain. 2. Reinforcement Bars: ASTM A615, Grade 60 (ASTM A615M, Grade 400),

Structure Channels and Benches: Field formed from concrete. Portland-cement design mix, 4000 psi (27.6 MPa) minimum. with 0.45 maximum water-cement ratio.

Include channels and benches in sanitary sewerage manholes.

a. Manhole Channels: Concrete invert, formed to same width as connected piping, with height of the vertical sides to 3/4 of the pipe diameter. Form curved channels with smooth, uniform radius and slope. The radius shall be not less than 40 percent of the manhole diameter.

1) Invert Slope: 2.5 percent (1:40) through manhole.

Manhole Benches: Concrete, sloped to drain into channel: coarse broom

2) Include channels and benches in storm drainage catch basins.

Catch Basin Channels: Concrete invert, formed to same width as connected piping, with height of the vertical sides to 3/4 of the pipe diameter. Form curved channels with smooth, uniform radius and slope. The radius shall be not less than 40 percent of the manhole diameter.

1) Invert Slope: match proposed slope through catch basin.

Sand bedding: Bedding material shall be clean, washed, granular material derived from decomposed or crushed rock. Such material shall be free of organic material, mica, clay, silts, oils and other deleterious materials. Sand bedding shall have a maximum particle size of 1/4 - inch with gradation that allows 90 to 100 percent passing a No. 4

1. Pipe Zone Backfill: Backfill with sand conforming to the requirements of 2.07 A., referenced above. Backfill shall be placed 12 inches above the top of pipe and compact in accordance to 95 % Relative Compaction. Compaction shall be

> STORM DRAINAGE 33 41 00 - 5

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- 2. Backfill above pipe zone: Sand conforming to the specification above shall be used as backfill. Native material may be used as trench backfill if approved by the Owner's Geotechnical Engineer.
- Sand/Cement Slurry Backfill: Sand/cement slurry backfill shall consist of fluid, 3. workable mixture of aggregate, cement, and water. Aggregate for sand/cement slurry shall be clean, washed fine aggregate conforming with Section of this section. Alternatively, fine aggregate may be clean mortar sand conforming with provisions of ASTM C404.
 - Cement shall be Type IP. a.
 - Water shall be potable. b.

2.8 EXCAVATION FOR SEWER AND DRAINAGE PIPE TRENCHES

- Excavate trenches to indicated slopes, lines, depths, and invert elevations. See Α. Section 31 23 00 - "Excavation and Fill.".
- Excavate trenches to uniform widths to provide a working clearance on each side of Β. pipe or conduit. Excavate trench walls vertically from trench bottom to 12 inches (300 mm) higher than top of pipe, unless otherwise indicated.
 - 1. Clearance: A minimum of 4 inches (100 mm) and a maximum of 9 inches (230 mm) on each side of pipe or conduit.
- Trench Bottoms: Excavate and shape trench bottoms to provide uniform bearing and C. support of pipes and conduit. Shape subgrade to provide continuous support for bells, joints, and barrels of pipes and for joints, fittings, and bodies of conduits. Remove stones and sharp objects to avoid point loading.
 - 1. For pipes or conduit less than 4 inches (100 mm) in nominal diameter, handexcavate trench bottoms and support pipe bells and conduit on an undisturbed subgrade.
 - For pipes and conduit 4 inches (100 mm) or larger in nominal diameter, place 2. and compact sand bedding as shown on the plans, shape bedding to provide support to a minimum of 180 degrees of pipe circumference. Fill depressions with tamped sand backfill.
 - Where rock or other unvielding bearing surface is encountered, extend trench 3. excavation a minimum of 6 inches (150 mm) below pipe barrel and bell to receive bedding course.

UNAUTHORIZED EXCAVATION 2.9

Fill unauthorized excavations per Section 3.08 "Unauthorized Excavations" of Section Α. 31 2300 - "Excavation and Fill."

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- Β. measures as may be required by the Owner's representative.
- 2.10 COMPACTION
 - Α.

 - C. compliance with the plans and details.

Where indicated widths of utility trenches are exceeded, provide remedial measures in accordance with the recommendations of the pipe manufacturer and such other

Place backfill and fill materials in layers not more than 8 inches (200 mm) in loose depth for material compacted by heavy compaction equipment, and not more than 4 inches (100 mm) in loose depth for material compacted by hand-operated tampers.

B. Place backfill and fill materials evenly on all sides of structures to required elevations. Place backfill and fill uniformly along the full length of each structure.

Percentage of Maximum Dry Density Requirements: Compact soil shall be in

END OF SECTION

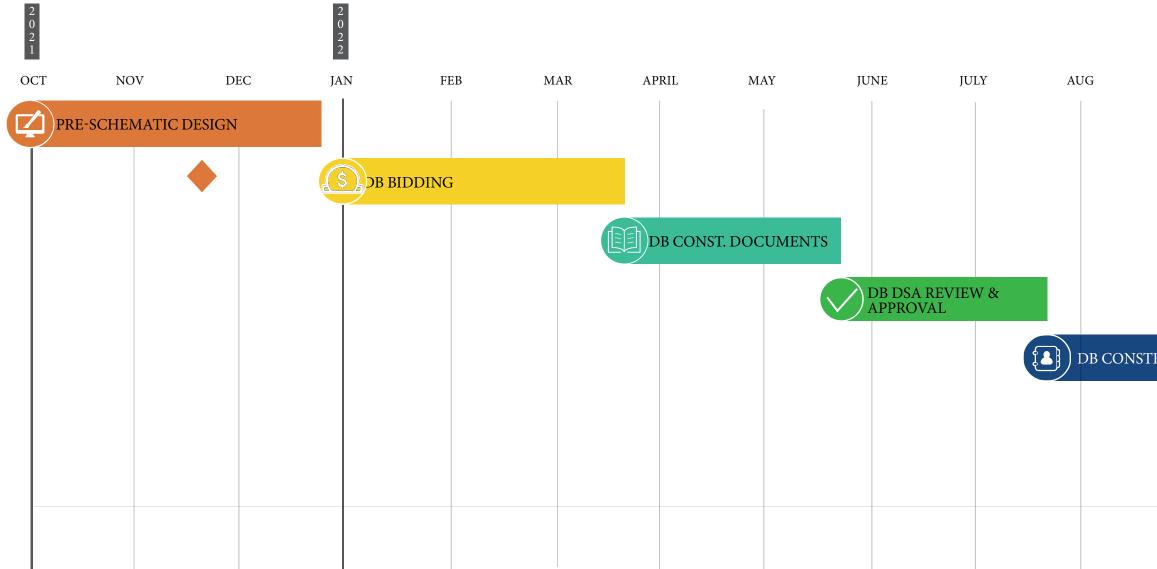
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OZA Schedule

Preliminary Project Schedule

Pre - Schematic Design:	Oct - Dec. 21
Topographical Survey:	Nov. 21
DB Bidding:	Jan Mar. 22
DB Construction Documents:	Mar May 22
DB DSA Review and Approval:	May - July 22
DB Construction Admin Support:	July - Oct. 22
DB Closeout:	Oct Nov. 22



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SE	РТ	OCT	N	OV	DEC	
'RUC	CTION					04
				DB CLOSEOUT		
				LOSEOUT		nent
						Criteria Document
						Criteria

05 Appendix

DRAWING INDEX

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2-C0.1	EXISTI
2-C1.1	EXISTI
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2-C3.1	DETAIL
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4-C1.1	EXISTI
4-C2.1	SITE IN
4-C3.1	DETAIL
5-C0.1	EXISTI
5-C1.1	EXISTI
5-C2.1	SITE IN
5-C3.1	DETAIL
LANDSCAPI	E DRAWI
L.01	LANDS
L.02	LANDS
L.03	LANDS
L.03 L.04	LANDS

AS-BUILT ACCESSIBILITY REFERENCE DRAWINGS

A0.1	SITE PL
G-0.4	SITE AC
A1.0	SITE PL
A1.04	ENLAR
A1.2	CAMPL

L.05

L.06

ING OVERALL SITE - AUDUBON ES ING SITE & DEMOLITION PLAN - AUDUBON ES MPROVEMENT PLAN - AUDUBON ES LS - AUDUBON ES

ING OVERALL SITE - BAYSIDE ACADEMY ING SITE & DEMOLITION PLAN - BAYSIDE ACADEMY MPROVEMENT PLAN - BAYSIDE ACADEMY LS - BAYSIDE ACADEMY

ING OVERALL SITE - BREWER ISLAND ES ING SITE & DEMOLITION PLAN - BREWER ISLAND ES MPROVEMENT PLAN - BREWER ISLAND ES LS - BREWER ISLAND ES

ING OVERALL SITE - FIESTA GARDENS ES ING SITE & DEMOLITION PLAN - FIESTA GARDENS ES MPROVEMENT PLAN - FIESTA GARDENS ES LS - FIESTA GARDENS ES

ING OVERALL SITE - GEORGE HALL ES ING SITE & DEMOLITION PLAN - GEORGE HALL ES MPROVEMENT PLAN - GEORGE HALL ES LS - GEORGE HALL ES

NGS

- SCAPE PLAN AUDUBON ES SCAPE PLAN - BAYSIDE ACADEMY SCAPE PLAN - BREWER ISLAND ES SCAPE PLAN - FIESTA GARDENS ES LANDSCAPE PLAN - GEORGE HALL ES
- LANDSCAPE DETAILS

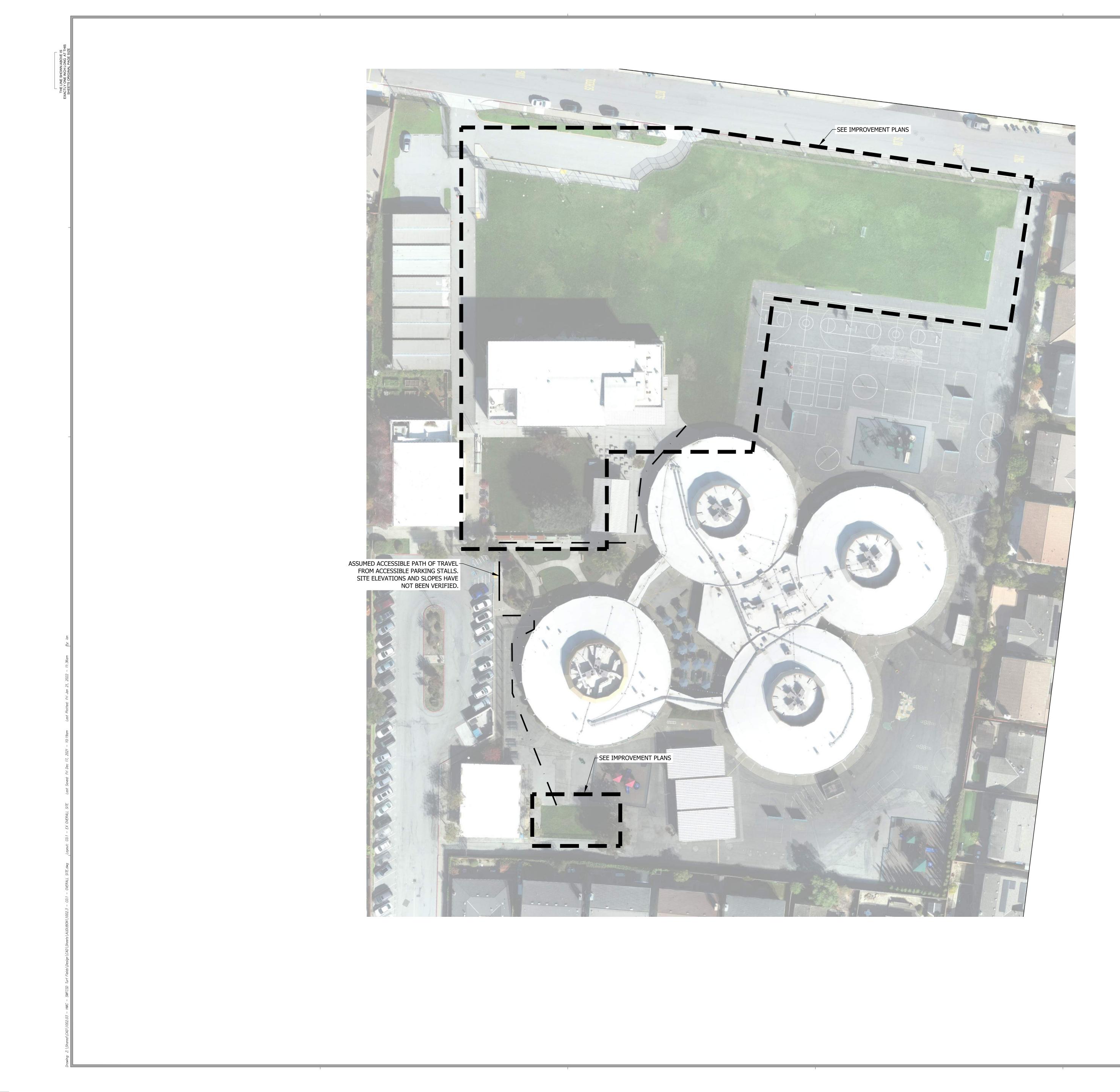
LAN - AUDUBON ES CCESSIBILITY PLAN - BAYSIDE ACADEMY LAN & CODE INFORMATION - BREWER ISLAND ES RGED SITE PLAN - FIESTA GARDENS ES US SITE PLAN - GEORGE HALL ES

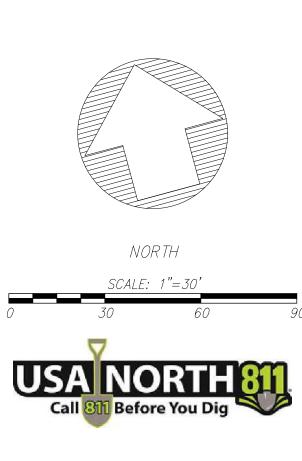
05

HMC Architects

41

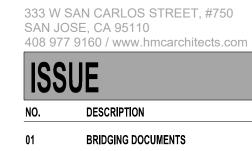
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HMC Architects 3542-006-000





Project No. 1002.03

FACILITY: FACILITY NAME 841 GULL AVE FOSTER CITY, CA 94404 PROJECT:

SHEET NAME:



DATE: 12/21/2021 SHEET:

PLEASE RECYCLE 🦓



CLIENT PROJ NO:

BRIDGING DOCUMENTS

EXISTING OVERALL SITE

SYNTHETIC TURF PROJECT

AUDUBON ELEMENTARY SCHOOL

C2G/CIVIL CONSULTANTS GROUP, INC. Engineers/Planners 4444 Scotts Valley Drive / Ste 6 Scotts Valley, CA 95066 T (831) 438-4420 F (831) 438-5829



BRIDGING DOCUMENTS

12/21/2021

DATE





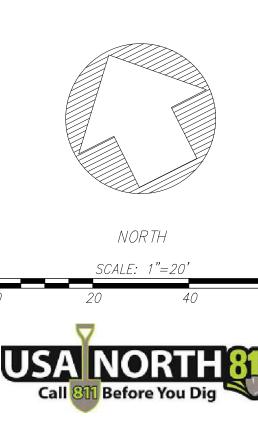
X DEMOLITION NOTES:

- 1. SAWCUT EXISTING AC PAVEMENT 665 LF
- 2. REMOVE EXISTING AC PAVEMENT 1,660 SQFT
- 3. REMOVE EXISTING LAWN 64,490 SQFT
- 4. REMOVE EXISTING HEADER BOARD 152 LF
- 5. REMOVE EXISTING STORM DRAIN DROP INLET

6. REMOVE EXISTING IRRIGATION BOXES AND CONTROL VALVES. EXISTING IRRIGATION PIPES TO BE CUT, CAPPED, AND ABANDONED IN PLACE. CONTRACTOR SHALL VERIFY WHICH IRRIGATION CONTROLLERS SERVE THE FIELDS PRIOR TO THE START OF CONSTRUCTION. CONTRACTOR SHALL ENSURE THAT ANY LANDSCAPED AREAS TO REMAIN STILL HAVE WORKING IRRIGATION SYSTEM ONCE THE FIELD SYSTEM IS DISCONNECTED.



RIM: 4.50'





HMC Architects 3542-006-000





Project No. 1002.03

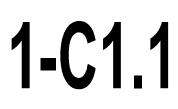
FACILITY: FACILITY NAME 841 GULL AVE FOSTER CITY, CA 94404 PROJECT:

SHEET NAME:



DATE: 12/21/2021 SHEET:

PLEASE RECYCLE 🦚



CLIENT PROJ NO:

BRIDGING DOCUMENTS

EXISTING SITE & DEMOLITION PLAN

SYNTHETIC TURF PROJECT

AUDUBON ELEMENTARY SCHOOL



BRIDGING DOCUMENTS

333 W SAN CARLOS STREET, #750



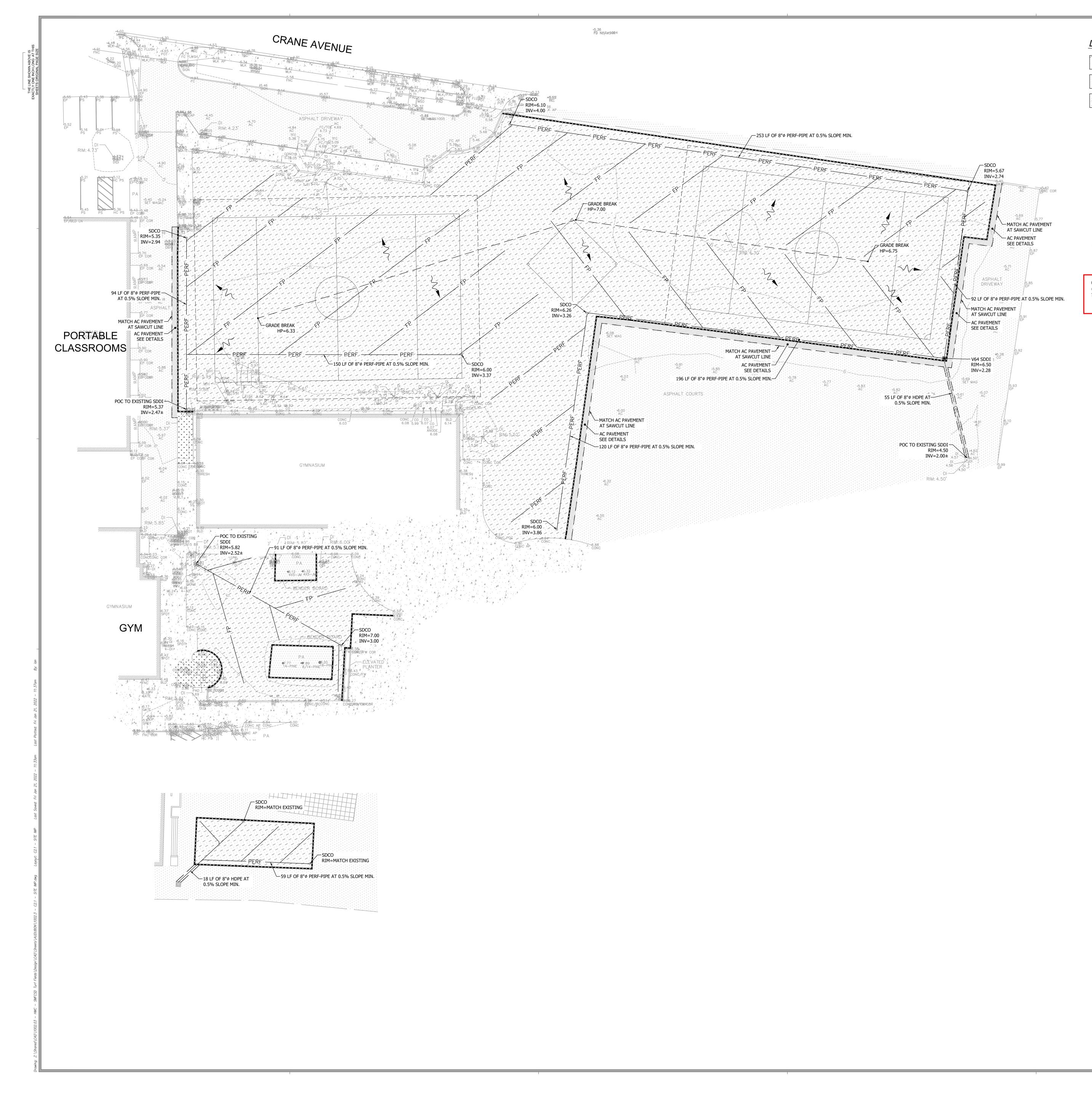
LIVE·LEAD·LEARN

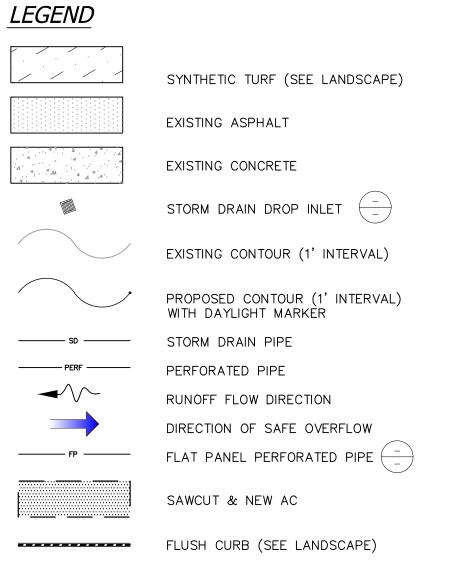
SAN MATEO-FOSTER CITY SCHOOL DISTRICT 1170 CHESS DR., FOSTER CITY, CA 94404



DATE

12/21/2021

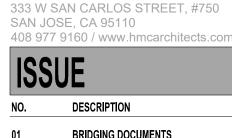




GRADING NOTE: OFF HAUL FROM BREWER ELEMENTARY SCHOOL SHALL BE USED TO BUILD-UP A RIDGE FOR THE FIELD AT AUDUBON ELEMENTARY IMPORT APPROXIMATELY 1,900 CU.YD.



HMC Architects 3542-006-000



Consultant: C2G/CIVIL CONSULTANTS GROUP, INC. Engineers/Planners 4444 Scotts Valley Drive / Ste 6 Scotts Valley, CA 95066 T (831) 438-4420 F (831) 438-5829

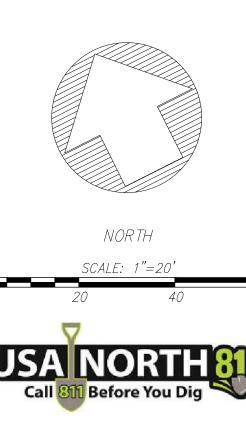
Project No. 1002.03

FACILITY: FACILITY NAME 841 GULL AVE FOSTER CITY, CA 94404 PROJECT:

SHEET NAME:



DATE: 12/21/2021 SHEET:





CLIENT PROJ NO:

BRIDGING DOCUMENTS

SITE IMPROVEMENT PLAN

SYNTHETIC TURF PROJECT

AUDUBON ELEMENTARY SCHOOL

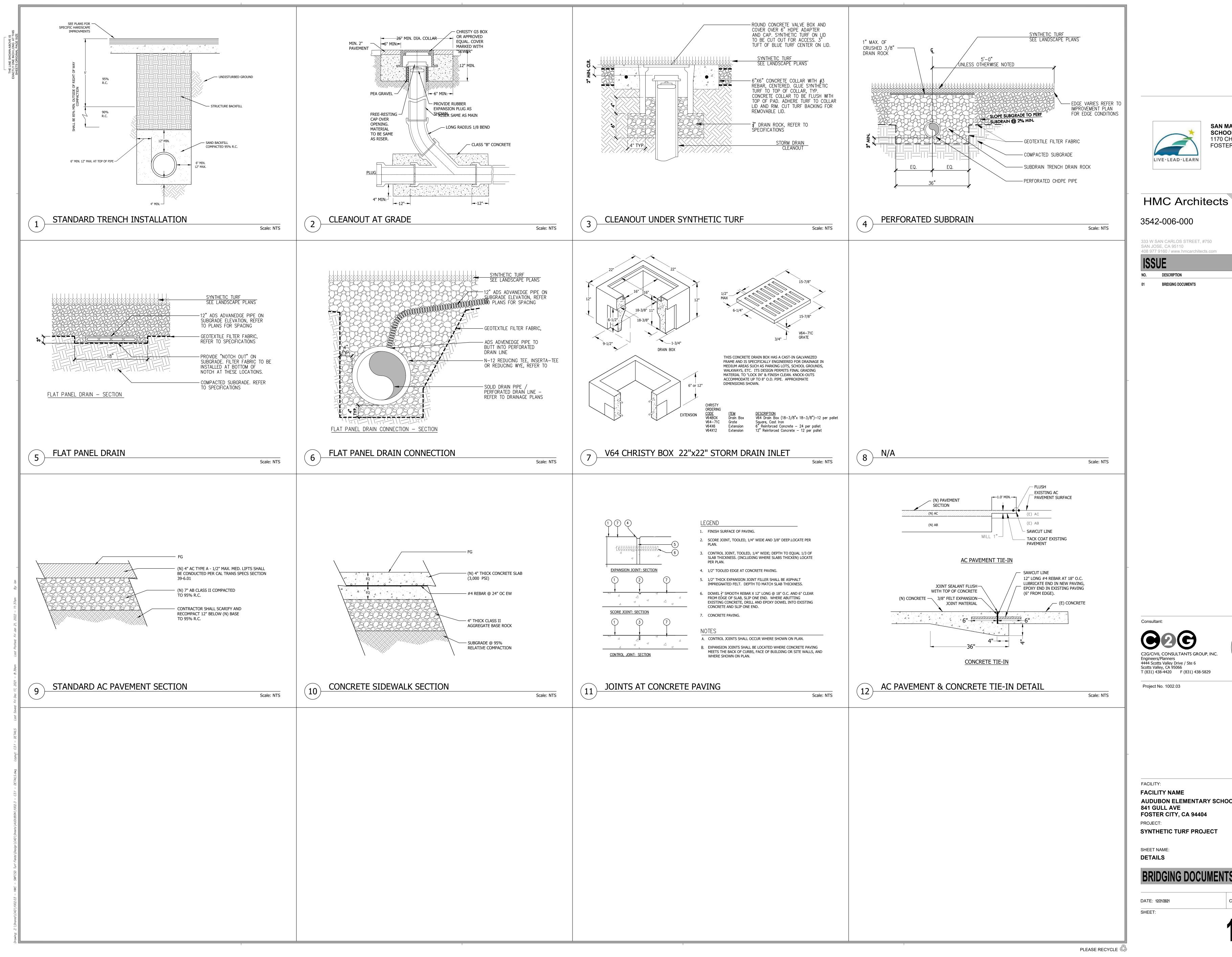




BRIDGING DOCUMENTS

DATE







AUDUBON ELEMENTARY SCHOOL

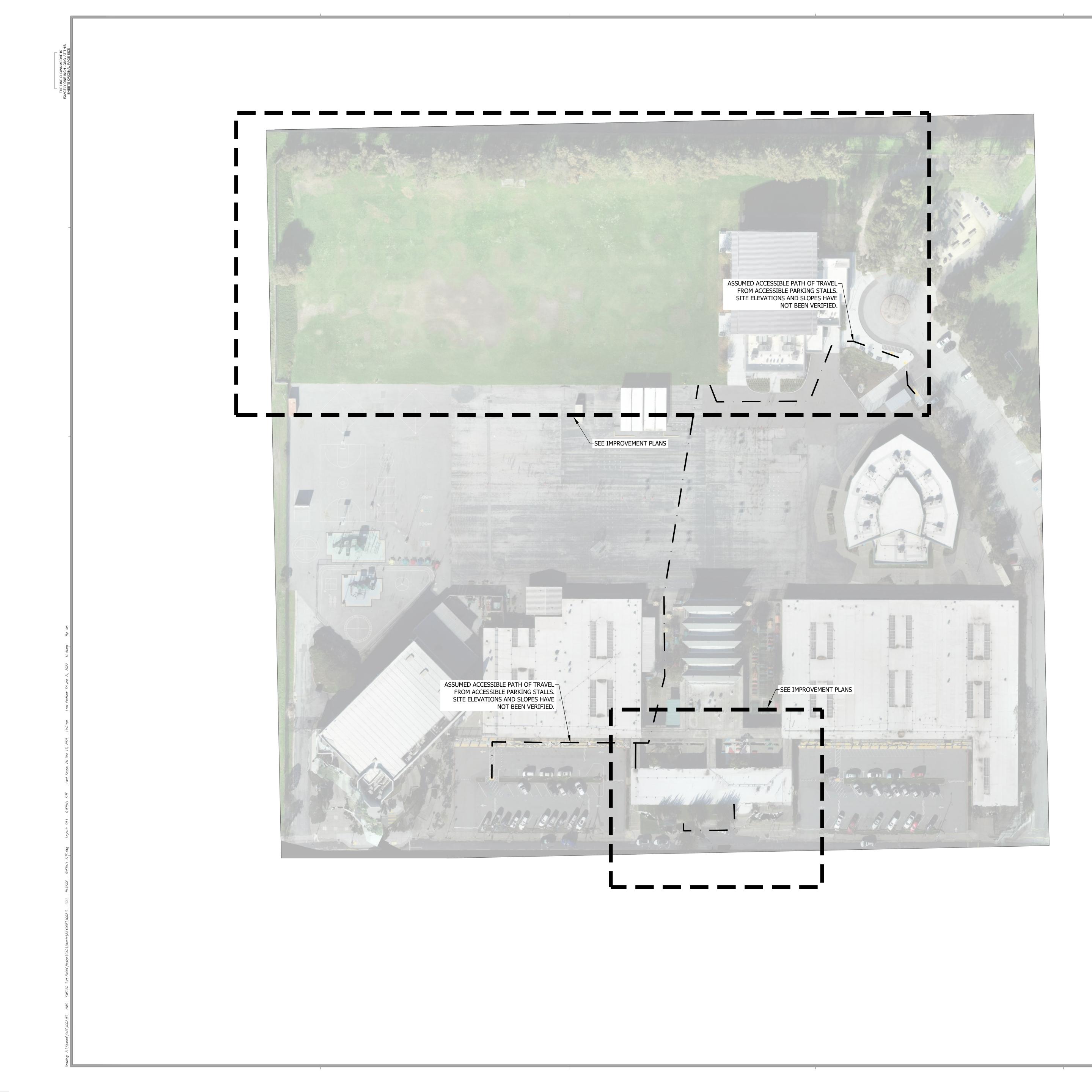
T (831) 438-4420 F (831) 438-5829

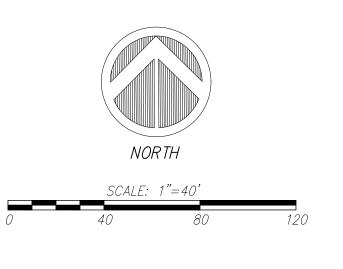
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DATE 12/21/2021



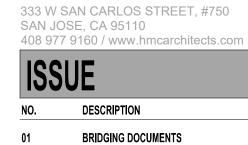








HMC Architects 3542-006-000





_____ Project No. 1002.03

FACILITY: FACILITY NAME **BAYSIDE ACADEMY** 2025 KEHOE AVE SAN MATEO, CA 94403 PROJECT:

SHEET NAME:



DATE: 12/21/2021 SHEET:



CLIENT PROJ NO:

BRIDGING DOCUMENTS

EXISTING OVERALL SITE

SYNTHETIC TURF PROJECT

C C2G/CIVIL CONSULTANTS GROUP, INC. Engineers/Planners 4444 Scotts Valley Drive / Ste 6 Scotts Valley, CA 95066 T (831) 438-4420 F (831) 438-5829

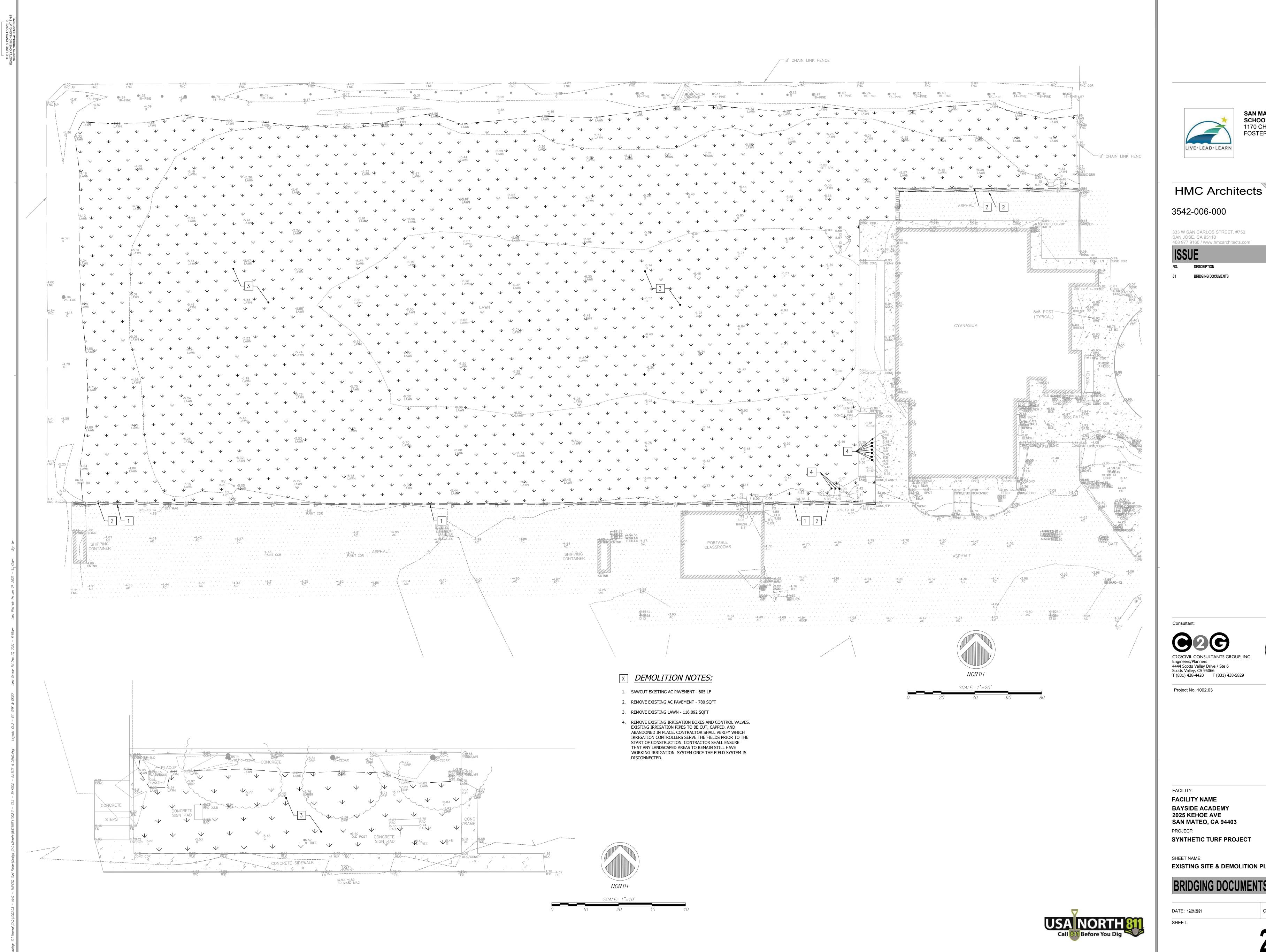


BRIDGING DOCUMENTS

12/21/2021

DATE









BRIDGING DOCUMENTS

EXISTING SITE & DEMOLITION PLAN

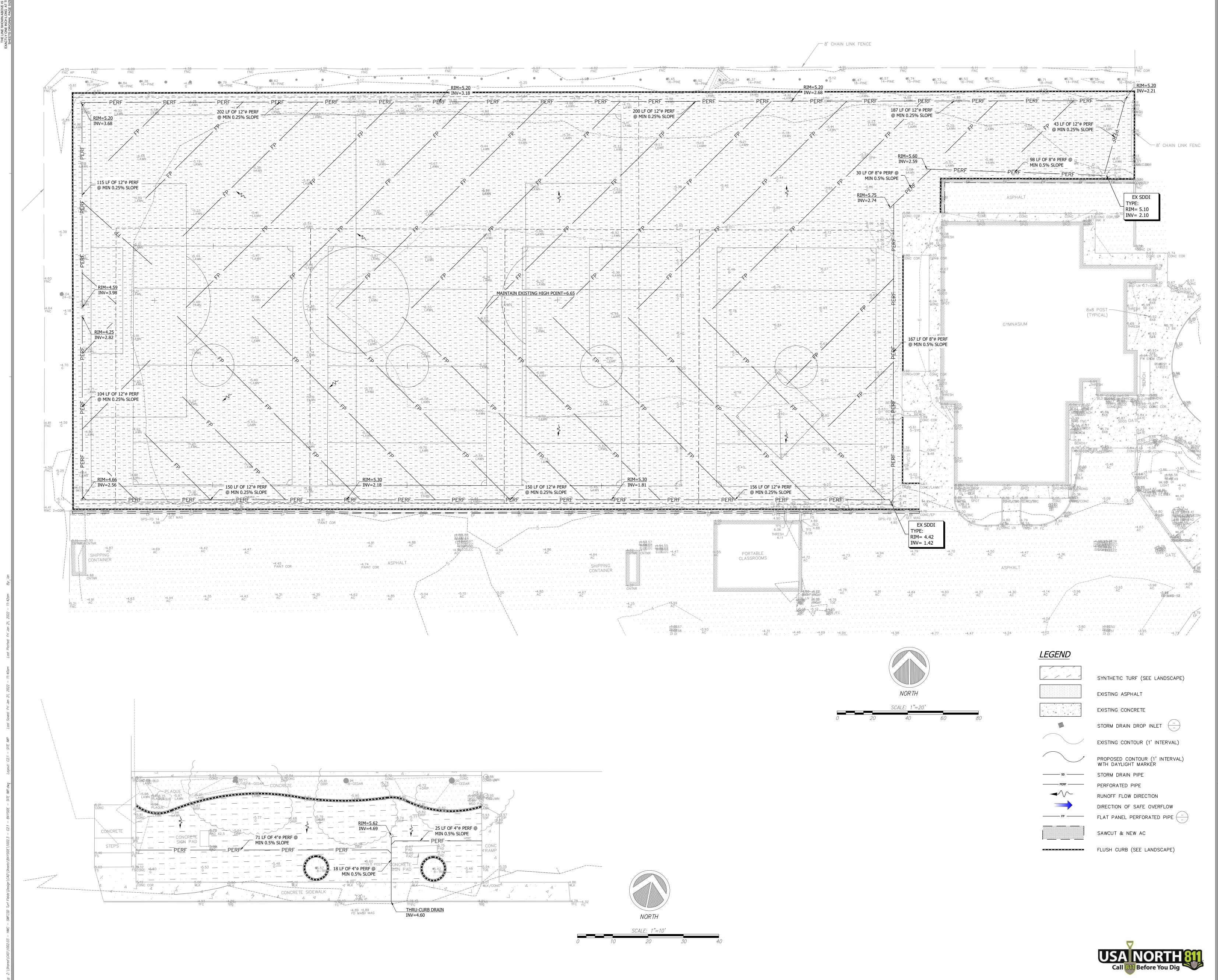
BAYSIDE ACADEMY 2025 KEHOE AVE SAN MATEO, CA 94403





01 BRIDGING DOCUMENTS







BRIDGING DOCUMENTS

SITE IMPROVEMENT PLAN

2025 KEHOE AVE SAN MATEO, CA 94403 SYNTHETIC TURF PROJECT

FACILITY NAME BAYSIDE ACADEMY

C C2G/CIVIL CONSULTANTS GROUP, INC. Engineers/Planners 4444 Scotts Valley Drive / Ste 6 Scotts Valley, CA 95066 T (831) 438-4420 F (831) 438-5829 Project No. 1002.03

Consultant:

 $oldsymbol{\Theta}$

FACILITY:

PROJECT:

SHEET NAME:

DATE: 12/21/2021

SHEET:



NO. DESCRIPTION BRIDGING DOCUMENTS

12/21/2021

DATE



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3542-006-000

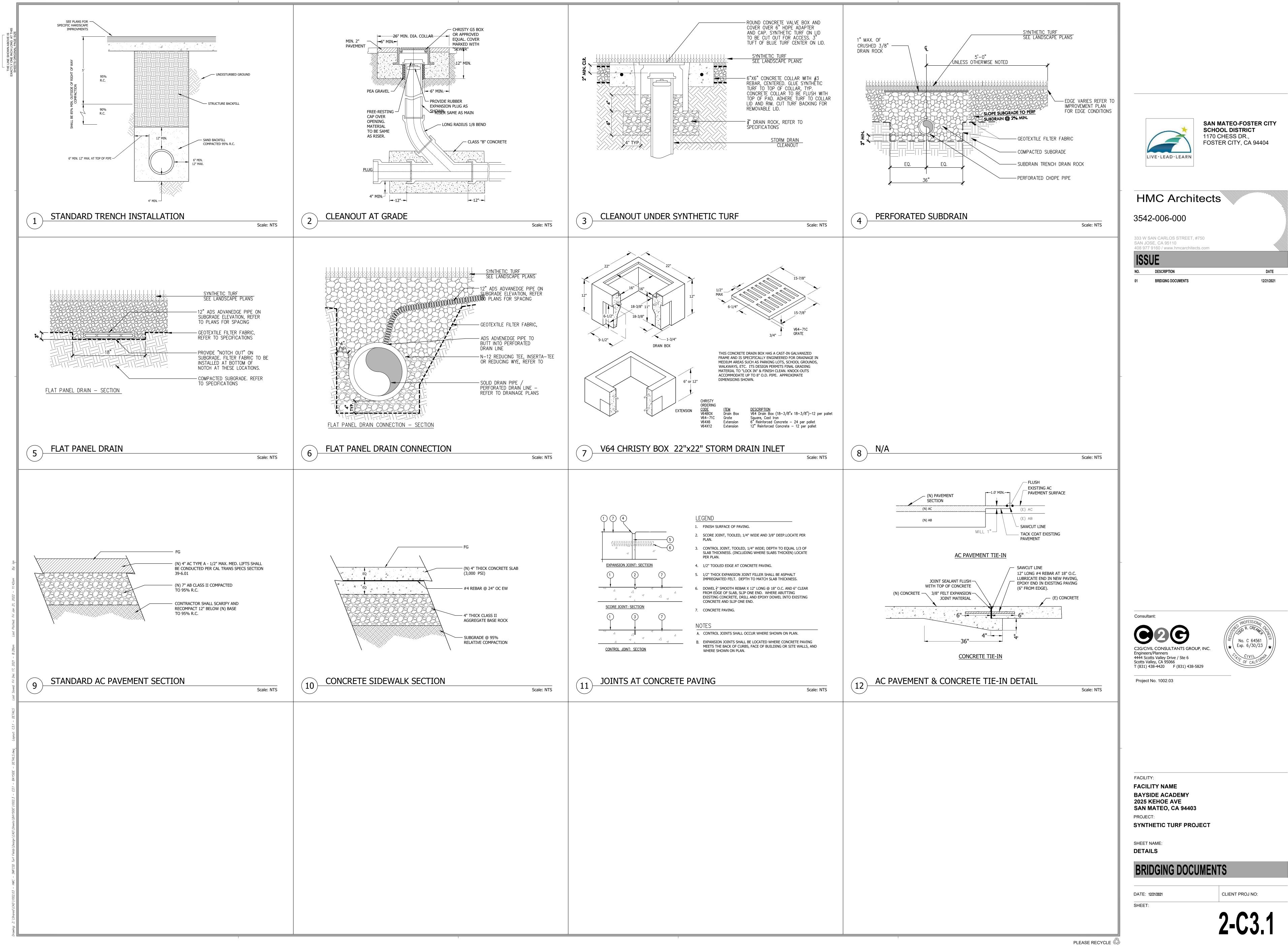
SAN JOSE, CA 95110

ISSUE

01

333 W SAN CARLOS STREET, #750

408 977 9160 / www.hmcarchitects.com









BRIDGING DOCUMENTS

SYNTHETIC TURF PROJECT

BREWER ISLAND ELEMENTARY SCHOOL





BRIDGING DOCUMENTS

12/21/2021

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BRIDGING DOCUMENTS

EXISTING SITE & DEMOLITION PLAN

SYNTHETIC TURF PROJECT

BREWER ISLAND ELEMENTARY SCHOOL 1151 POLYNESIA DR. FOSTER CITY, CA 94404

4444 Scotts Valley Drive / Ste 6

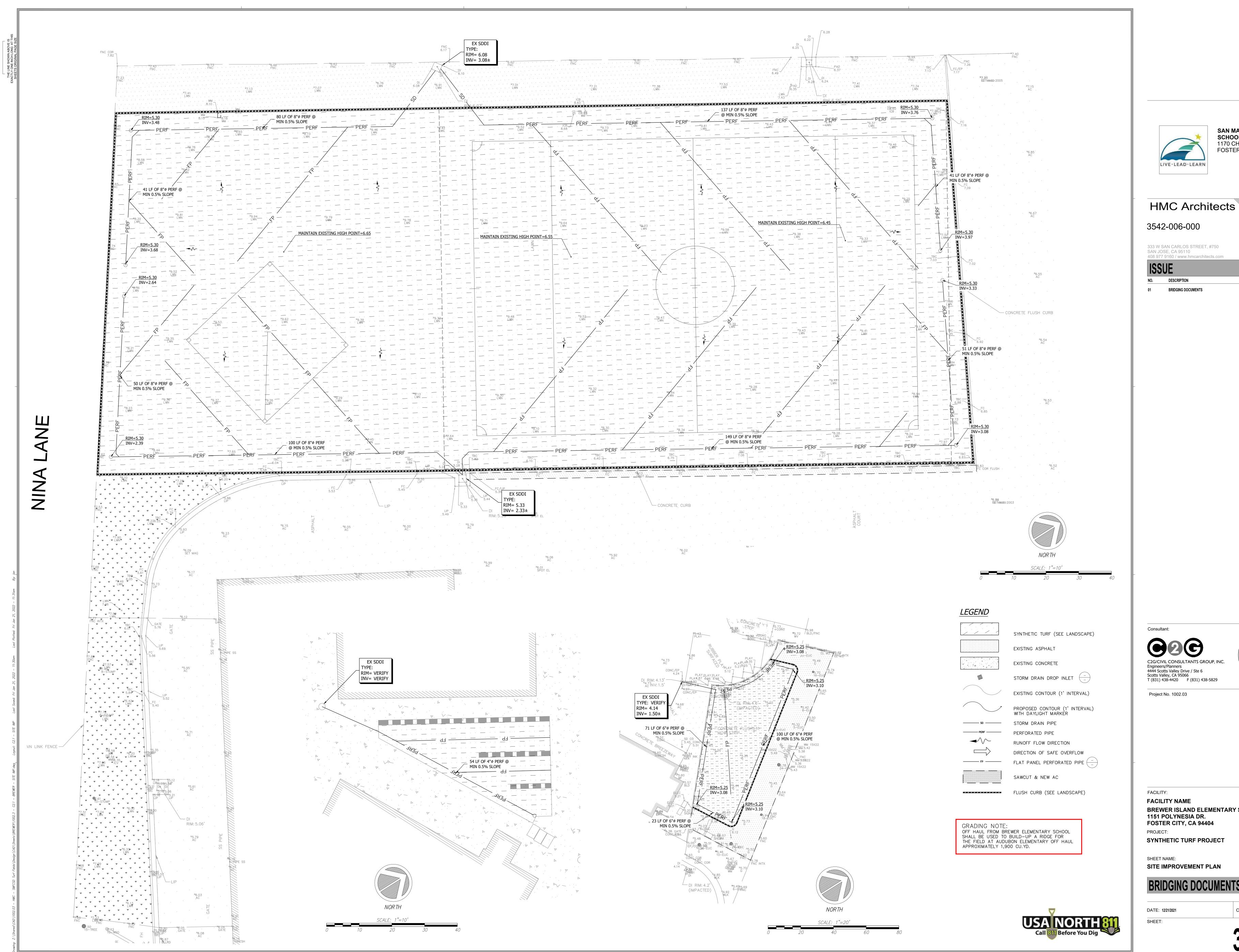




BRIDGING DOCUMENTS

DATE







BRIDGING DOCUMENTS

SITE IMPROVEMENT PLAN

FOSTER CITY, CA 94404

BREWER ISLAND ELEMENTARY SCHOOL

2C C2G/CIVIL CONSULTANTS GROUP, INC.

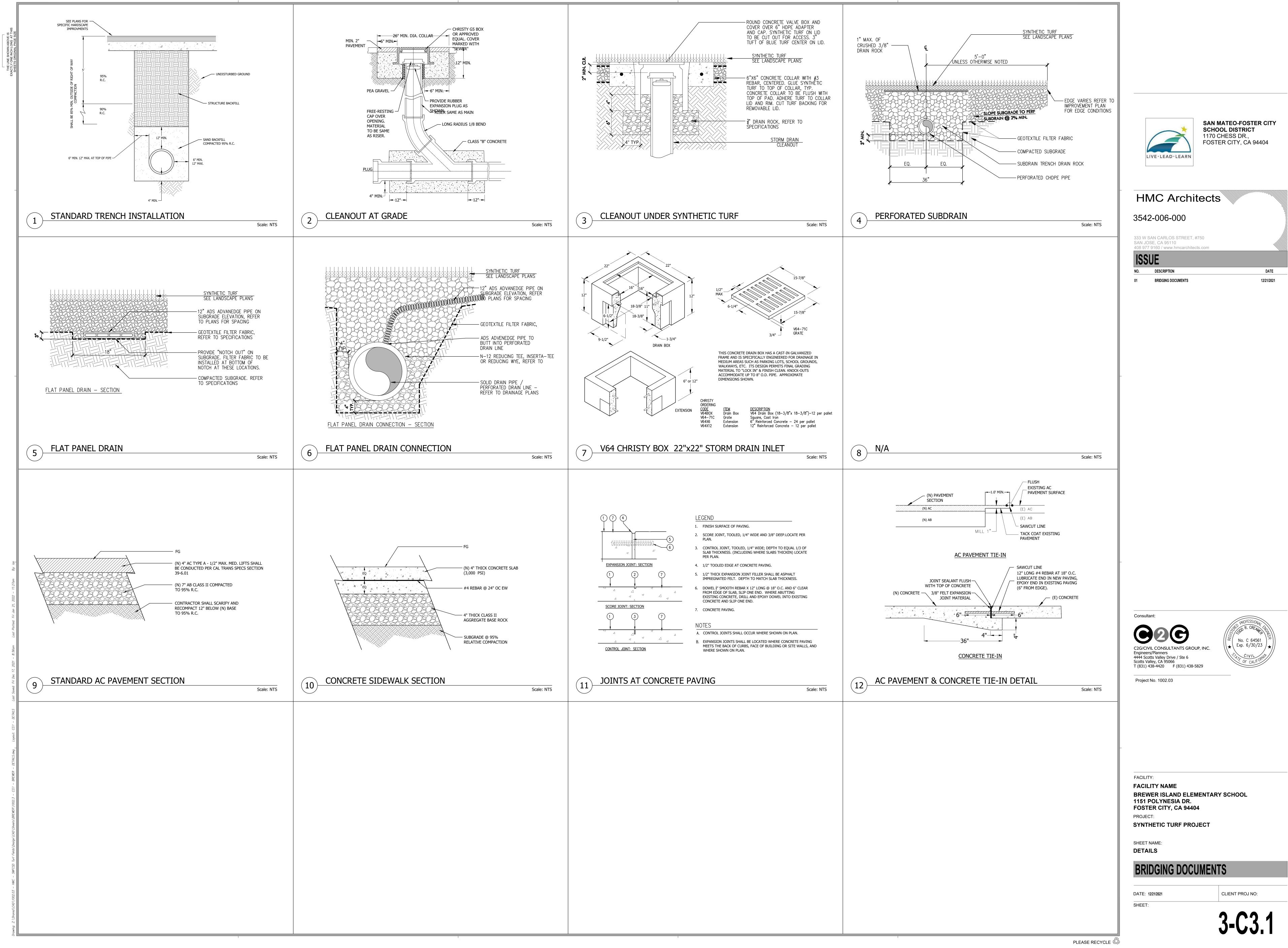


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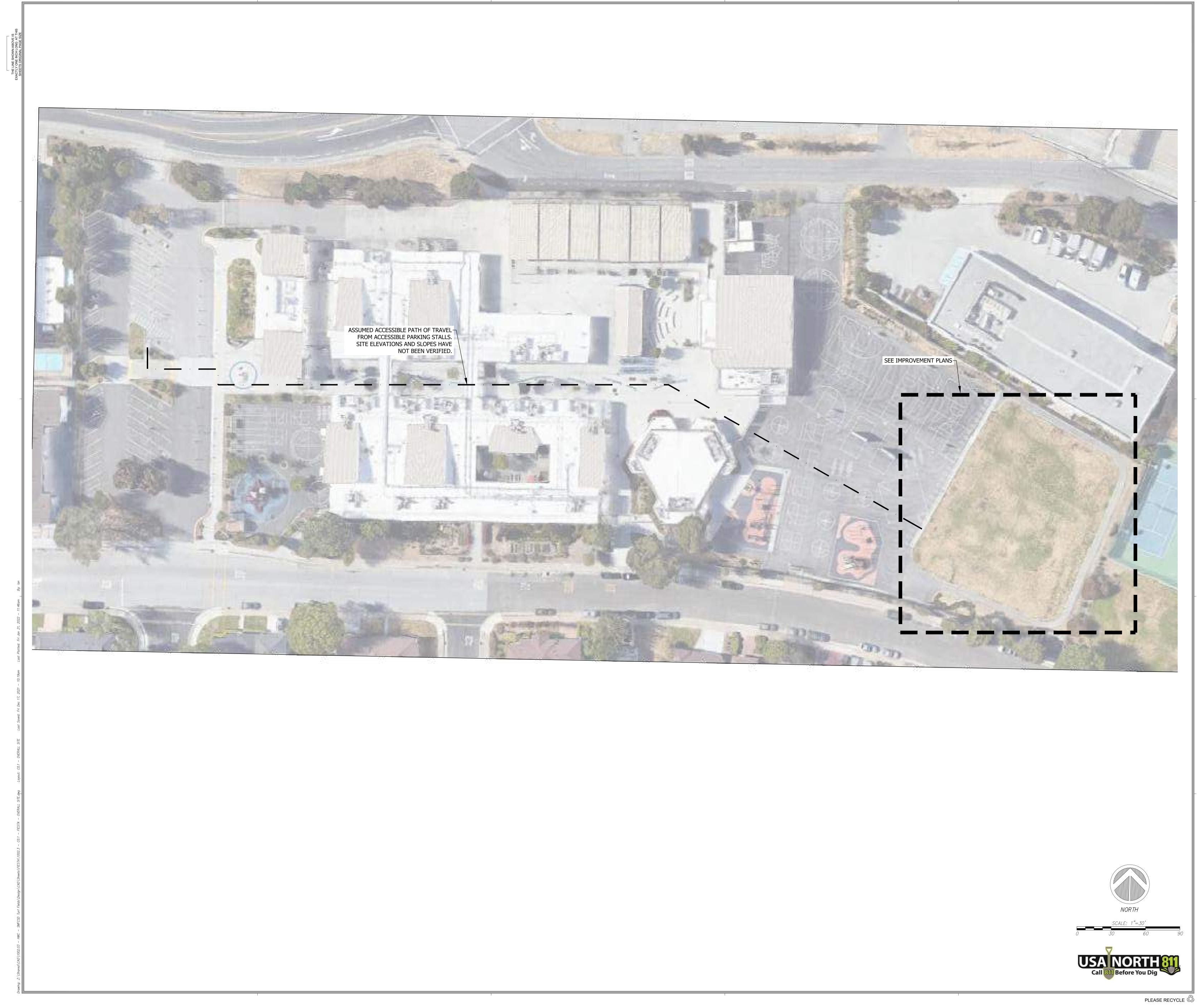
12/21/2021

DATE











HMC Architects 3542-006-000 333 W SAN CARLOS STREET, #750 SAN JOSE, CA 95110 408 977 9160 / www.hmcarchitects.com

ISSUE

01



_____ Project No. 1002.03

FACILITY: FACILITY NAME 1001 BERMUDA DR. SAN MATEO, CA 94403 PROJECT:

SYNTHETIC TURF PROJECT

SHEET NAME: EXISTING OVERALL SITE



DATE: 12/21/2021 SHEET:



CLIENT PROJ NO:

BRIDGING DOCUMENTS

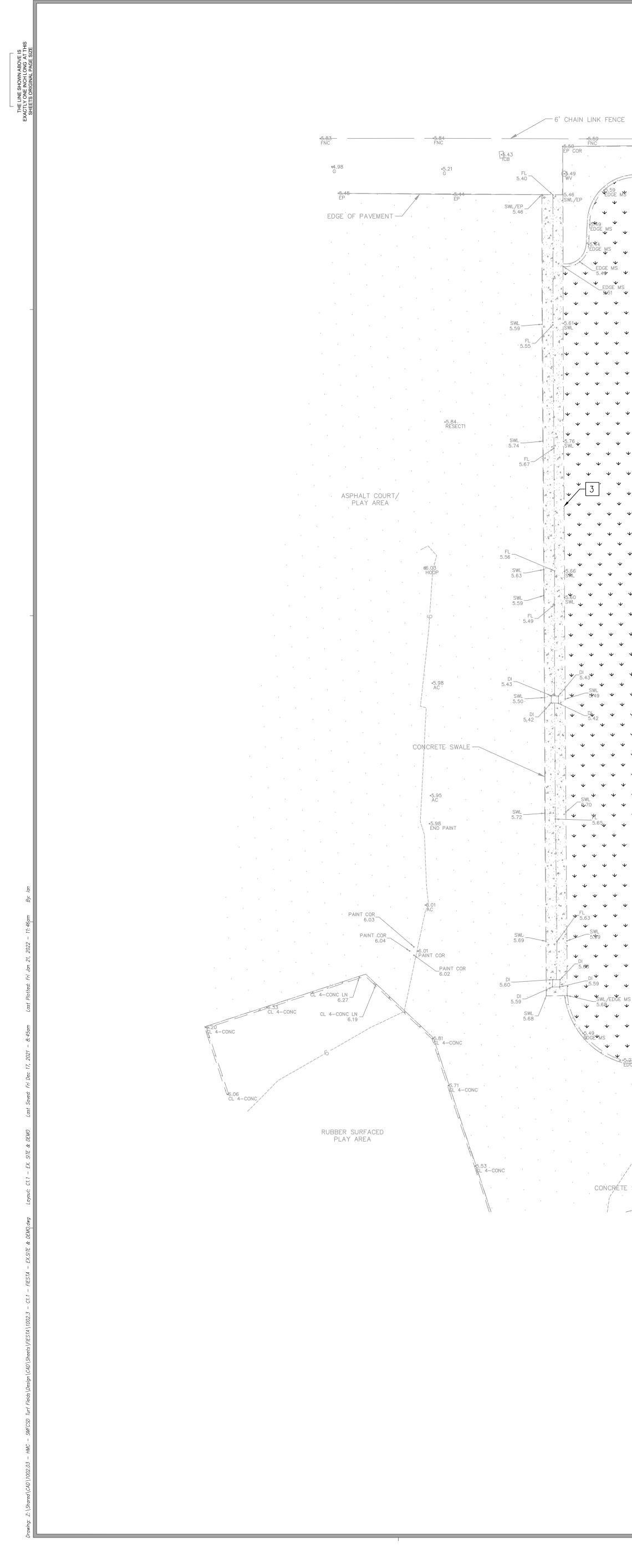
FIESTA GARDENS ELEMENTARY SCHOOL



NO. DESCRIPTION BRIDGING DOCUMENTS

DATE 12/21/2021





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_	+ 85°	4.55 TC 4-CURB							

X DEMOLITION NOTES:

- 1. EXISTING LAWN TO BE REMOVED 21,047 SF
- 2. EXISTING CURB TO REMAIN

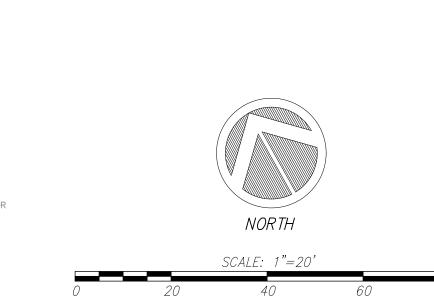
- 8' CHAIN LINK FENCE

14.6814.6

14.69 4.66

WM 18X30

- 3. EXISTING CONCRETE SWALE TO REMAIN
- 4. REMOVE EXISTING IRRIGATION BOXES AND CONTROL VALVES. EXISTING IRRIGATION PIPES TO BE CUT, CAPPED, AND ABANDONED IN PLACE. CONTRACTOR SHALL VERIFY WHICH IRRIGATION CONTROLLERS SERVE THE FIELDS PRIOR TO THE START OF CONSTRUCTION. CONTRACTOR SHALL ENSURE THAT ANY LANDSCAPED AREAS TO REMAIN STILL HAVE WORKING IRRIGATION SYSTEM ONCE THE FIELD SYSTEM IS DISCONNECTED.







HMC Architects 3542-006-000





Project No. 1002.03

FACILITY: FACILITY NAME 1001 BERMUDA DR. SAN MATEO, CA 94403 PROJECT:

SYNTHETIC TURF PROJECT

SHEET NAME: **EXISTING SITE & DEMOLITION PLAN**



DATE: 12/21/2021 SHEET:



CLIENT PROJ NO:

BRIDGING DOCUMENTS

FIESTA GARDENS ELEMENTARY SCHOOL

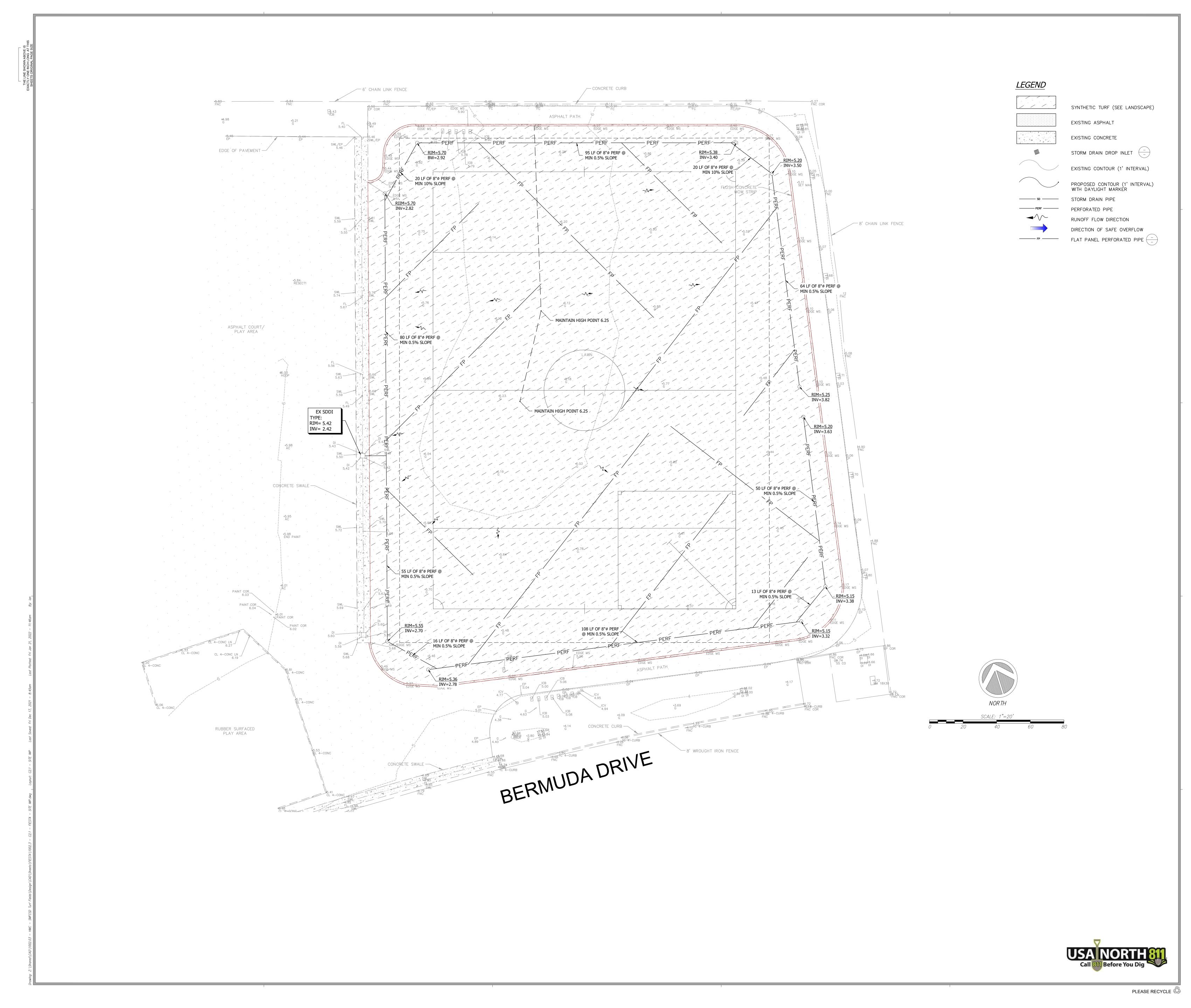


333 W SAN CARLOS STREET, #750

BRIDGING DOCUMENTS

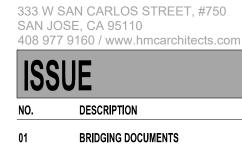
DATE 12/21/2021







HMC Architects 3542-006-000



Consultant: C2G/CIVIL CONSULTANTS GROUP, INC. Engineers/Planners 4444 Scotts Valley Drive / Ste 6 Scotts Valley, CA 95066 T (831) 438-4420 F (831) 438-5829

Project No. 1002.03

FACILITY: FACILITY NAME FIESTA GARDENS ELEMENTARY SCHOOL 1001 BERMUDA DR. SAN MATEO, CA 94403 PROJECT:

SYNTHETIC TURF PROJECT

SHEET NAME: SITE IMPROVEMENT PLAN



DATE: 12/21/2021 SHEET:



CLIENT PROJ NO:

BRIDGING DOCUMENTS



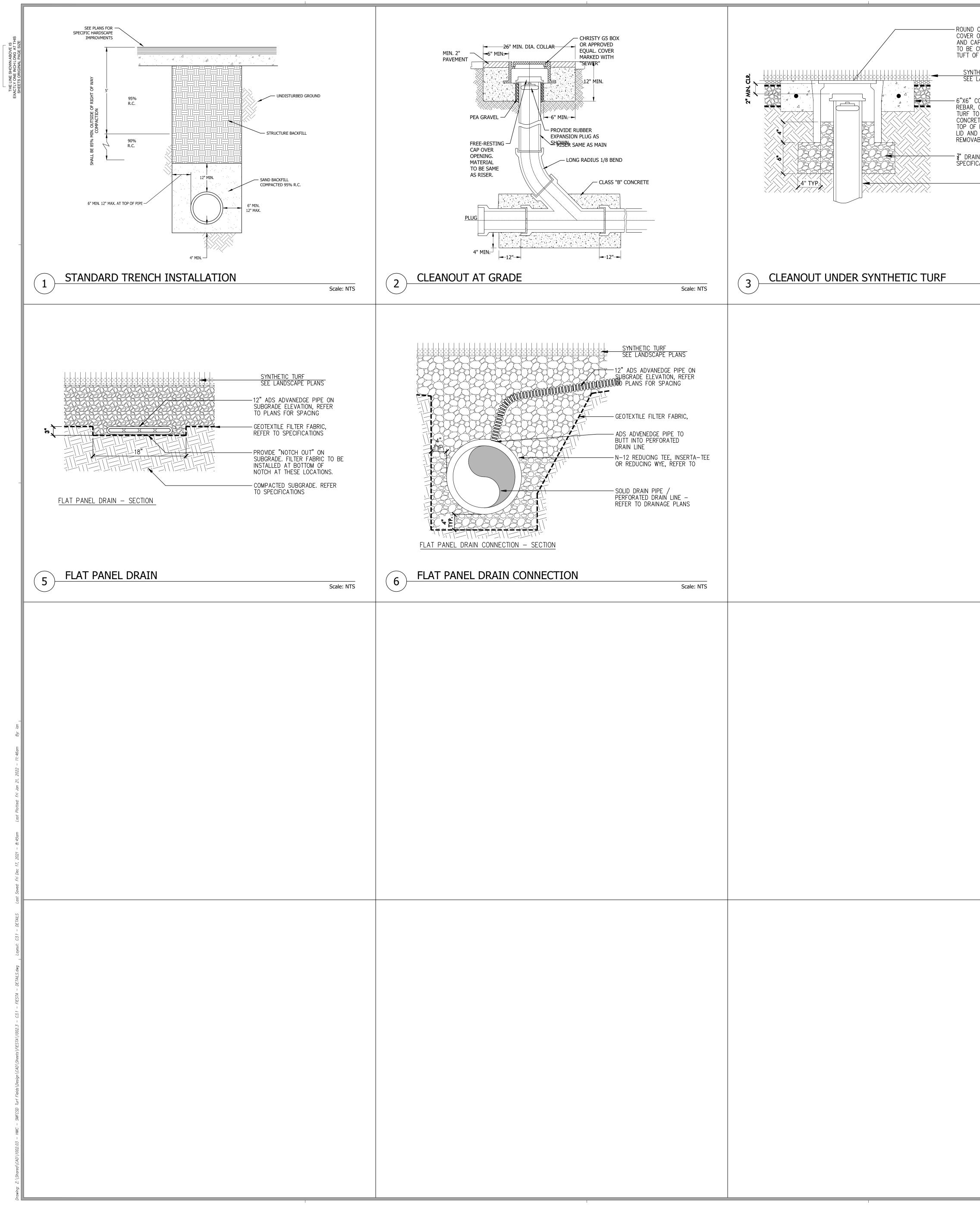


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12/21/2021

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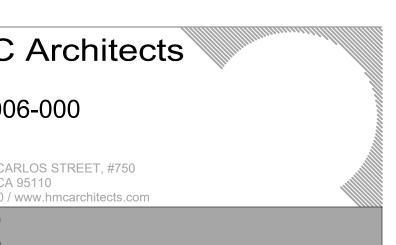




CONCRETE VALVE BOX AND OVER 6" HDPE ADAPTER AP. SYNTHETIC TURF ON LID CUT OUT FOR ACCESS. 3" IF BLUE TURF CENTER ON LID. IHETIC TURF LANDSCAPE PLANS	1" MAX. OF CRUSHED 3/8" DRAIN ROCK	
CONCRETE COLLAR WITH #3 CENTERED. GLUE SYNTHETIC TO TOP OF COLLAR, TYP. ETE COLLAR TO BE FLUSH WITH T PAD. ADHERE TURF TO COLLAR O RIM. CUT TURF BACKING FOR ABLE LID. IN ROCK, REFER TO CATIONS	EDGE VARIES REFER TO IMPROVEMENT PLAN FOR EDGE CONDITIONS	
STORM DRAIN CLEANOUT	GEOTEXTILE FILTER FABRIC COMPACTED SUBGRADE EQ. EQ. SUBDRAIN TRENCH DRAIN ROCK PERFORATED CHDPE PIPE	LIVE·LEAD·L HMC Ar
Scale: NTS	4 PERFORATED SUBDRAIN Scale: NTS	3542-006-00 333 W SAN CARLOS S SAN JOSE, CA 95110 408 977 9160 / www.hr ISSUE NO. DESCRIPTION 01 BRIDGING DOCU
		Consultant: COOSTING CONSULTANT Engineers/Planners 4444 Scotts Valley Drive / Scotts Valley, CA 95066 T (831) 438-4420 F (Project No. 1002.03
		FACILITY: FACILITY NAME FIESTA GARDEN 1001 BERMUDA SAN MATEO, CA PROJECT:
		SYNTHETIC TUR SHEET NAME: DETAILS BRIDGING DATE: 12/21/2021 SHEET:
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SAN MATEO-FOSTER CITY SCHOOL DISTRICT 1170 CHESS DR., FOSTER CITY, CA 94404



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DATE 12/21/2021





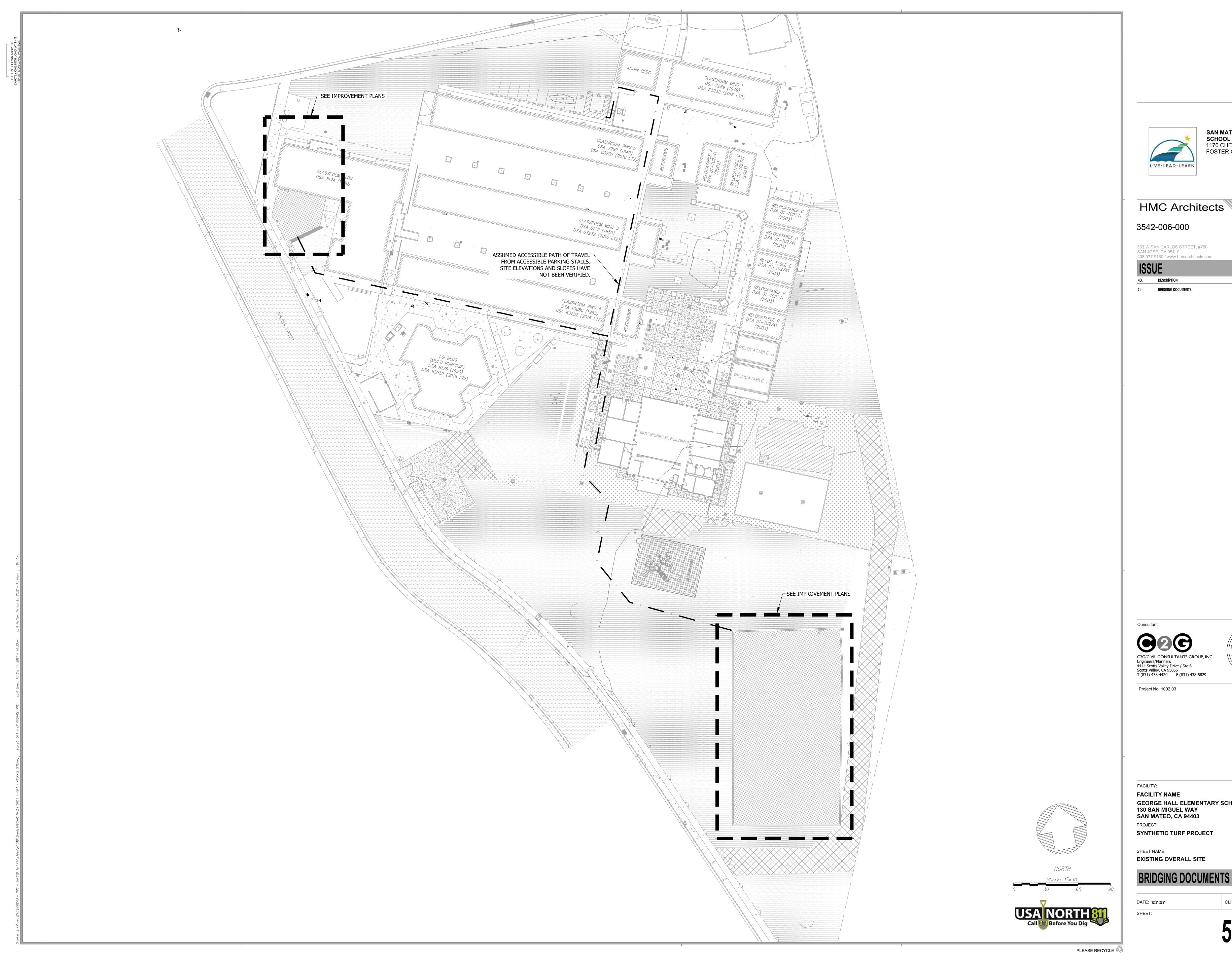
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CLIENT PROJ NO:

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BRIDGING DOCUMENTS

GEORGE HALL ELEMENTARY SCHOOL

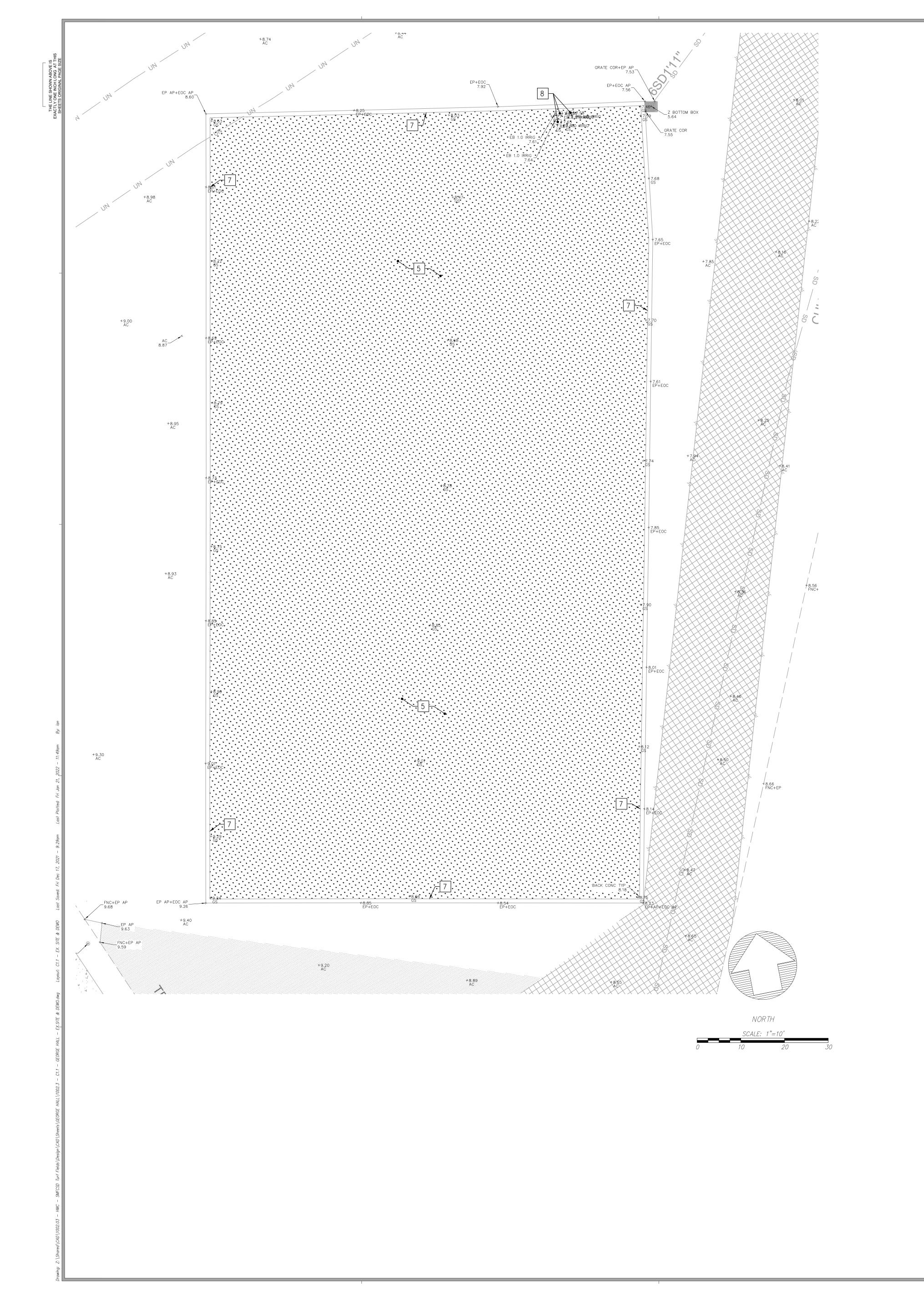


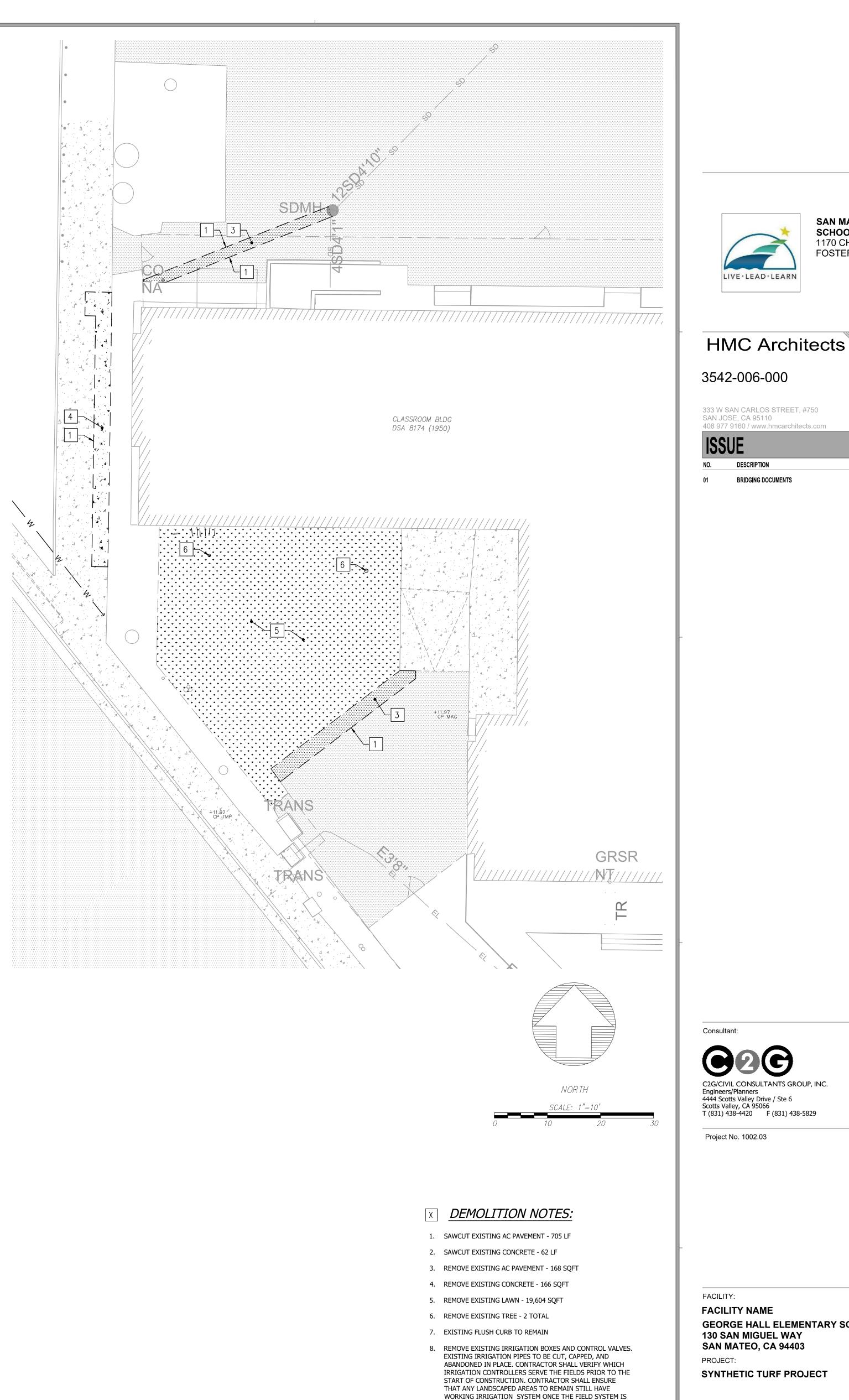


BRIDGING DOCUMENTS

DATE 12/21/2021







SHEET NAME:



DATE: 12/21/2021 SHEET:

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CLIENT PROJ NO:

BRIDGING DOCUMENTS

EXISTING SITE & DEMOLITION PLAN

SYNTHETIC TURF PROJECT

GEORGE HALL ELEMENTARY SCHOOL

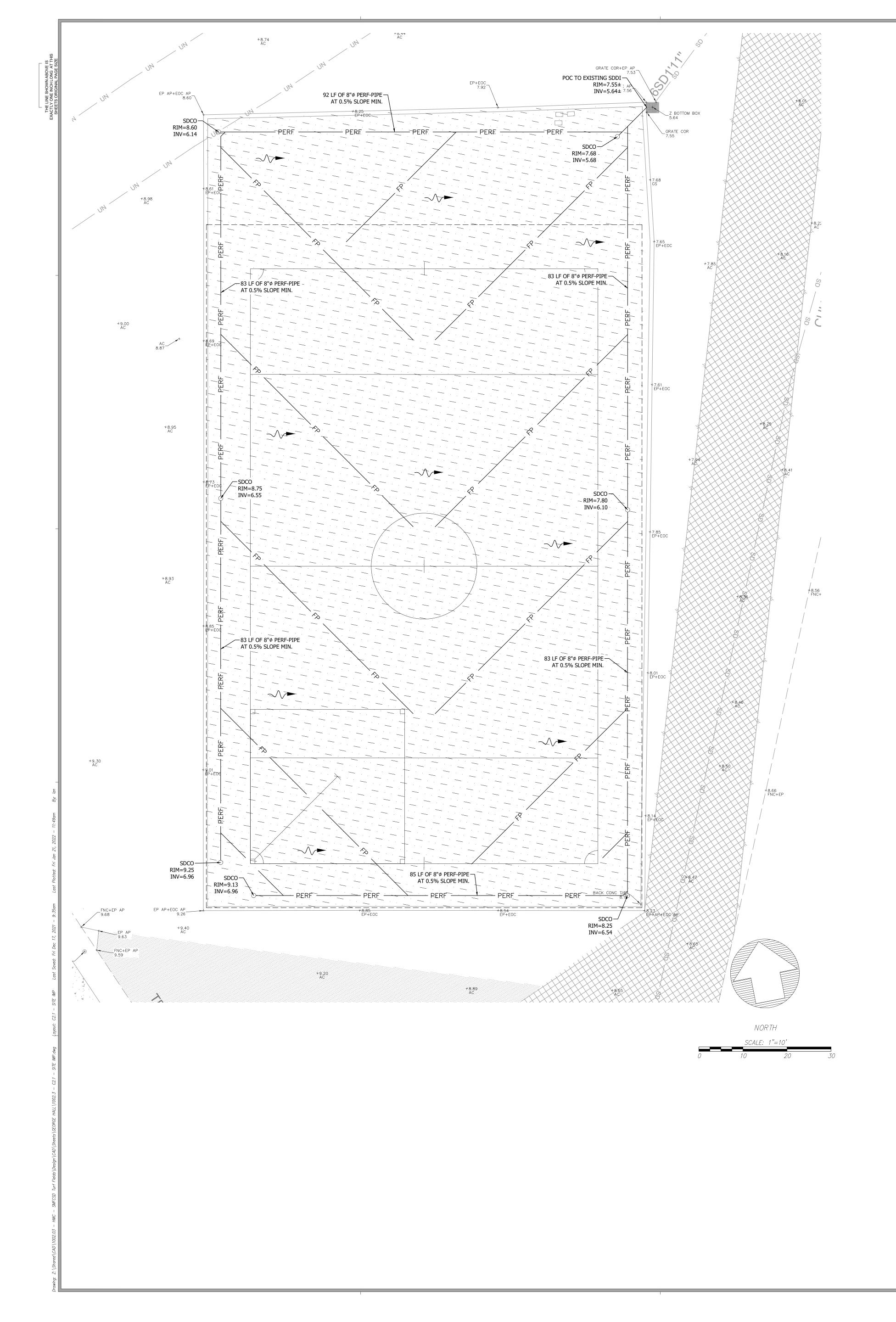


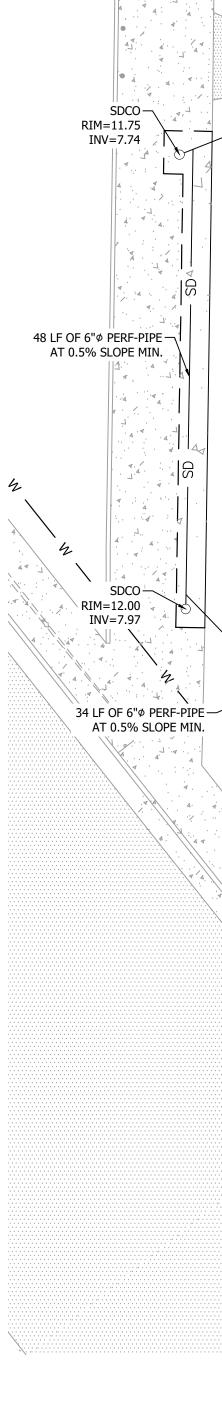


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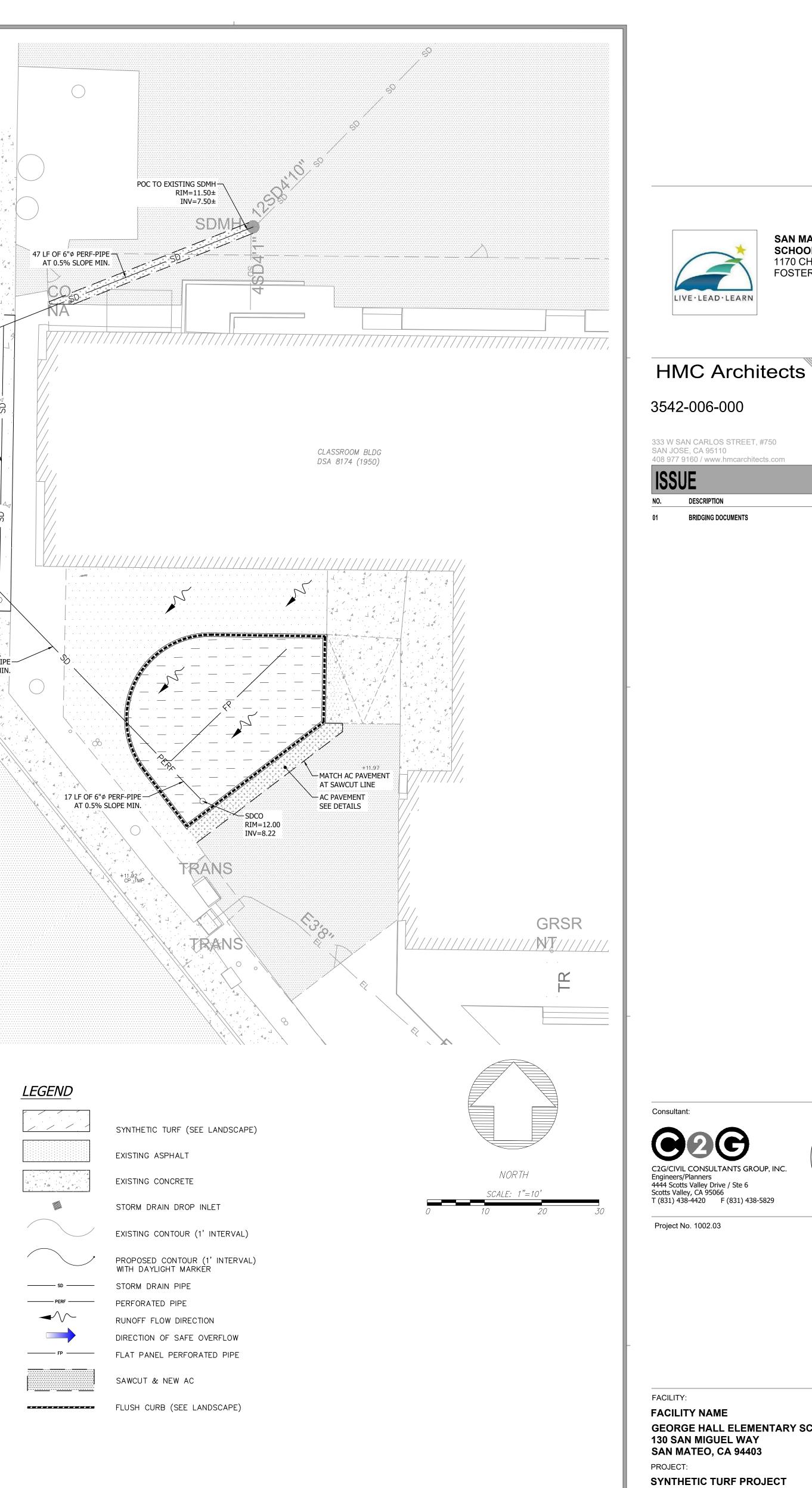
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CLIENT PROJ NO:

BRIDGING DOCUMENTS

SITE IMPROVEMENT PLAN

SHEET NAME:

DATE: 12/21/2021

SHEET:

GEORGE HALL ELEMENTARY SCHOOL 130 SAN MIGUEL WAY SAN MATEO, CA 94403

C C2G/CIVIL CONSULTANTS GROUP, INC. Engineers/Planners 4444 Scotts Valley Drive / Ste 6 Scotts Valley, CA 95066 T (831) 438-4420 F (831) 438-5829

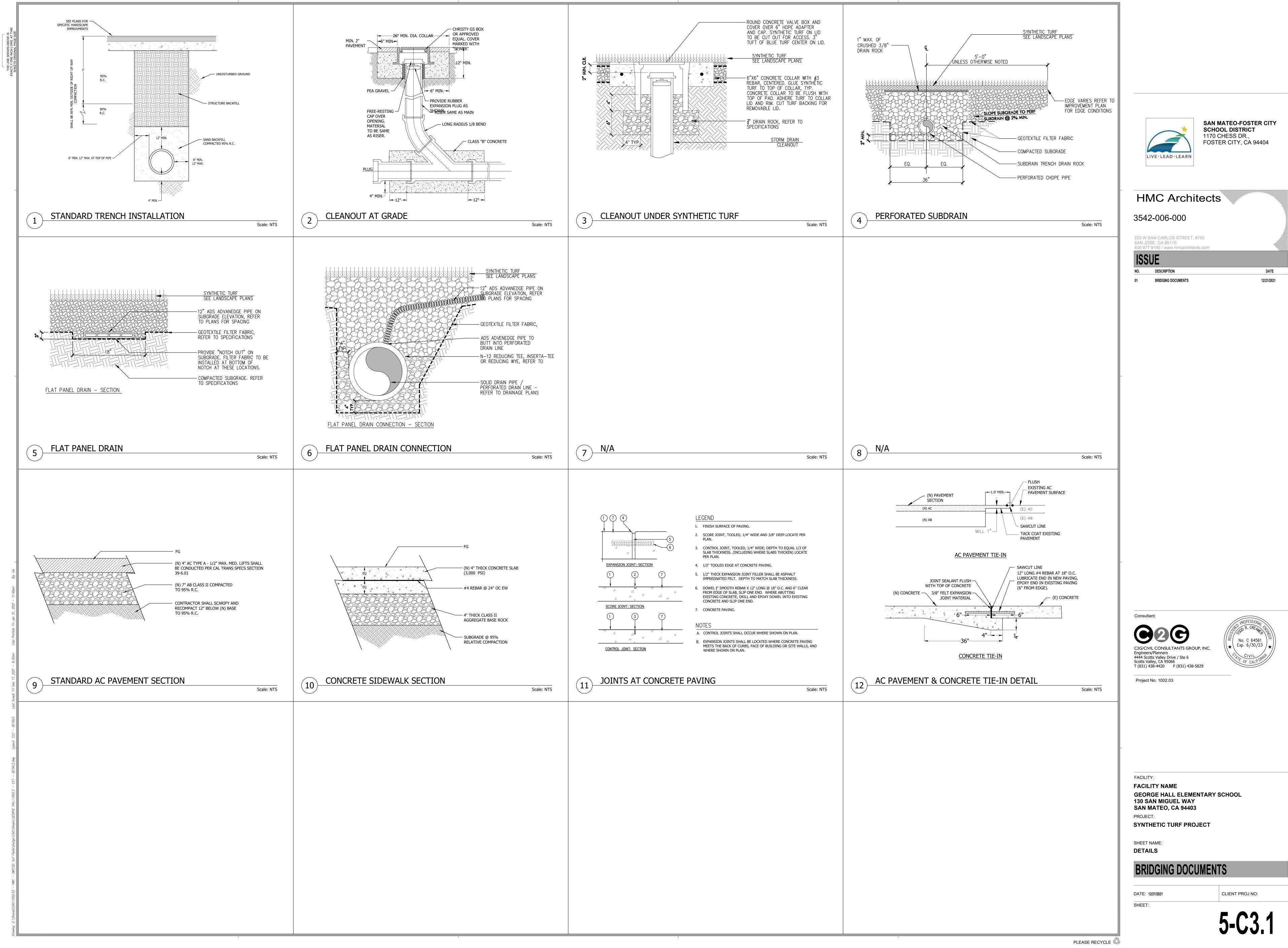


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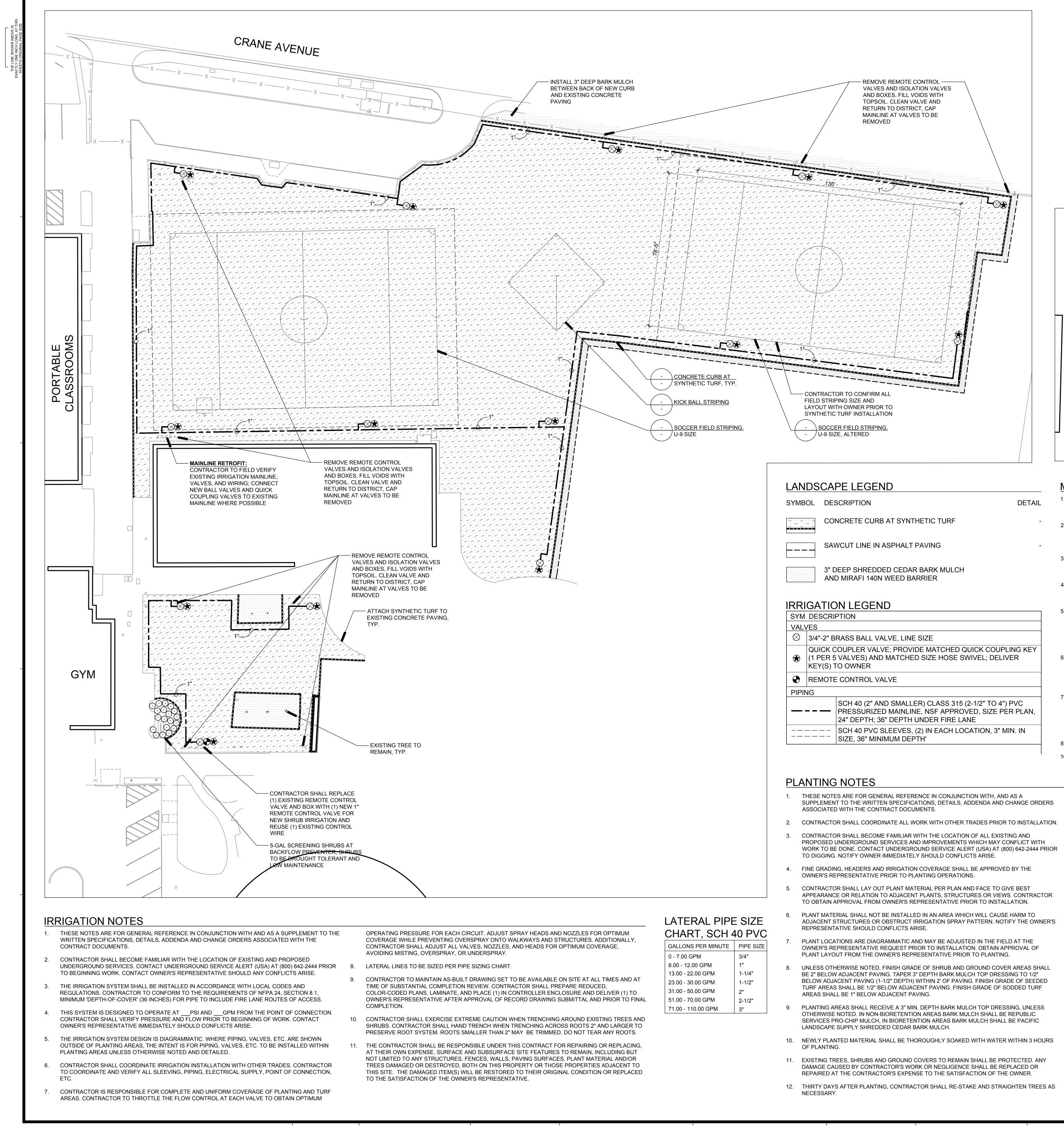
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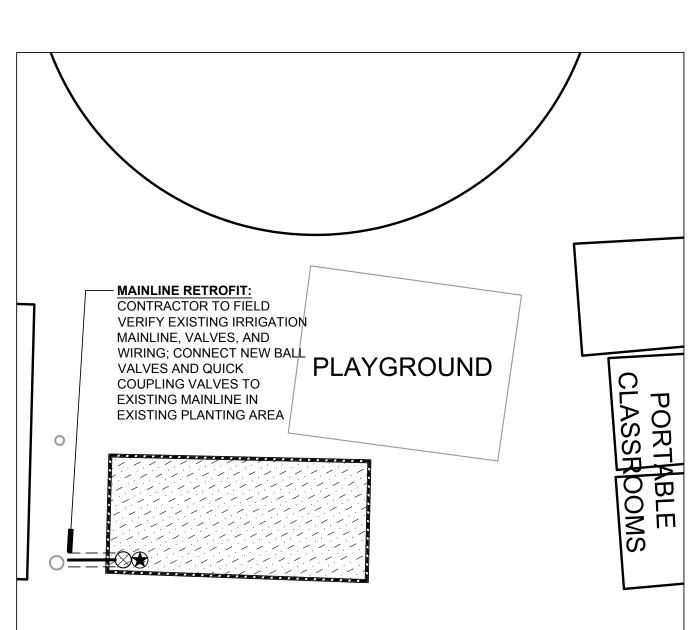






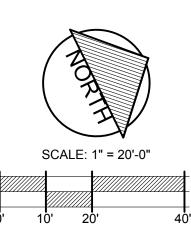


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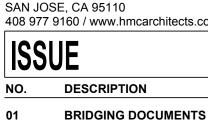
MATERIAL AND DETAIL REFERENCE NOTES

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- CONTRACTOR SHALL COORDINATE ROUGH GRADING AND FINE GRADING TO ENSURE EXISTING SUITABLE TOPSOIL IS REMOVED, STOCKPILED AND REINSTALLED INTO ALL PROPOSED LANDSCAPE AREAS PER LANDSCAPE SPECIFICATION SECTION 32 90 00. IN THE EVENT THERE IS NOT ENOUGH EXISTING TOPSOIL, OR NO PLACE TO STOCKPILE TOPSOIL, CONTRACTOR SHALL IMPORT AND INSTALL TOPSOIL PER LANDSCAPE SPECIFICATION SECTION 32 90 00.
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- CONTRACTOR SHALL ADJUST EXISTING UTILITY BOXES TO BE FLUSH WITH PROPOSED GRADES. 10. REFER TO SPECIFICTIONS AND CONSTRUCTION DETAILS ON SHEETS L.06.
 - CONTRACTOR TO COLLECT AND SUBMIT SOIL SAMPLE TO LUCCHESI CONSULTING FOR SOIL AMENDING AND PREPARATION RECOMMENDATION PER SPECIFICATIONS.
- 14. CONTRACTOR SHALL COORDINATE ROUGH GRADING AND FINE GRADING TO ENSURE EXISTING SUITABLE TOPSOIL IS REMOVED. STOCKPILED AND REINSTALLED INTO PROPOSED LANDSCAPE AREAS PER LANDSCAPE SPECIFICATION SECTION 32 90 00. IN THE EVENT THERE IS NOT ENOUGH EXISTING TOPSOIL, OR NO PLACE TO STOCKPILE TOPSOIL, CONTRACTOR SHALL IMPORT AND INSTALL TOPSOIL PER LANDSCAPE SPECIFICATION SECTION 32 9000.
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- ALL NON-BIORETENTION SHRUB AREAS SHALL RECEIVE WEED BARRIER FABRIC UNDER MULCH, MIRIFI 140N BY TENCATE.
- 17. DEEP ROOT BARRIERS TO BE INSTALLED ADJACENT TO ANY TREES WITHIN 6'-0" OF CURBS/WALKS OR WALLS.



PLEASE RECYCLE ଔଧି





Consultant:

Consultant's Project No. ANLA 2140

FACILITY: FACILITY NAME AUDUBON ELEMENTARY SCHOOL 841 GULL AVE FOSTER CITY, CA 94404 PROJECT: SYNTHETIC TURF PROJECT

SHEET NAME: LANDSCAPE PLAN

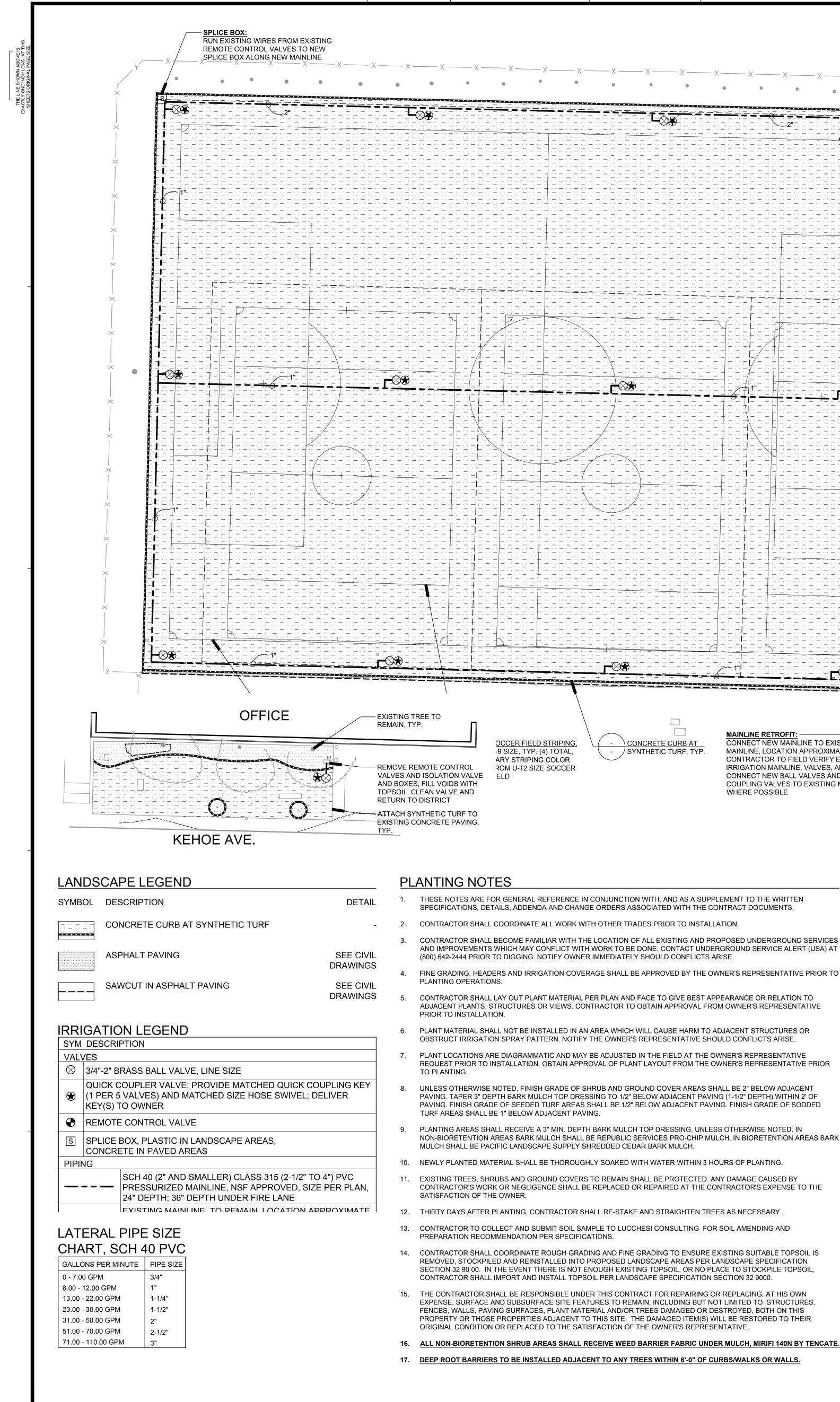
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DATE: 12/21/2021 SHEET:

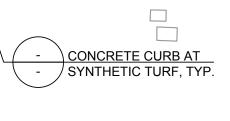
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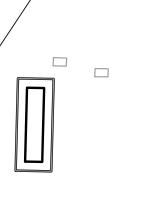


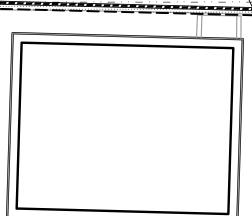
- CONTRACTOR TO CONFIRM ALL FIELD STRIPING SIZE AND LAYOUT WITH OWNER PRIOR TO • • • • • • _____



MAINLINE RETROFIT: CONNECT NEW MAINLINE TO EXISTING MAINLINE, LOCATION APPROXIMATE, CONTRACTOR TO FIELD VERIFY EXISTING IRRIGATION MAINLINE, VALVES, AND WIRING; CONNECT NEW BALL VALVES AND QUICK COUPLING VALVES TO EXISTING MAINLINE

WHERE POSSIBLE



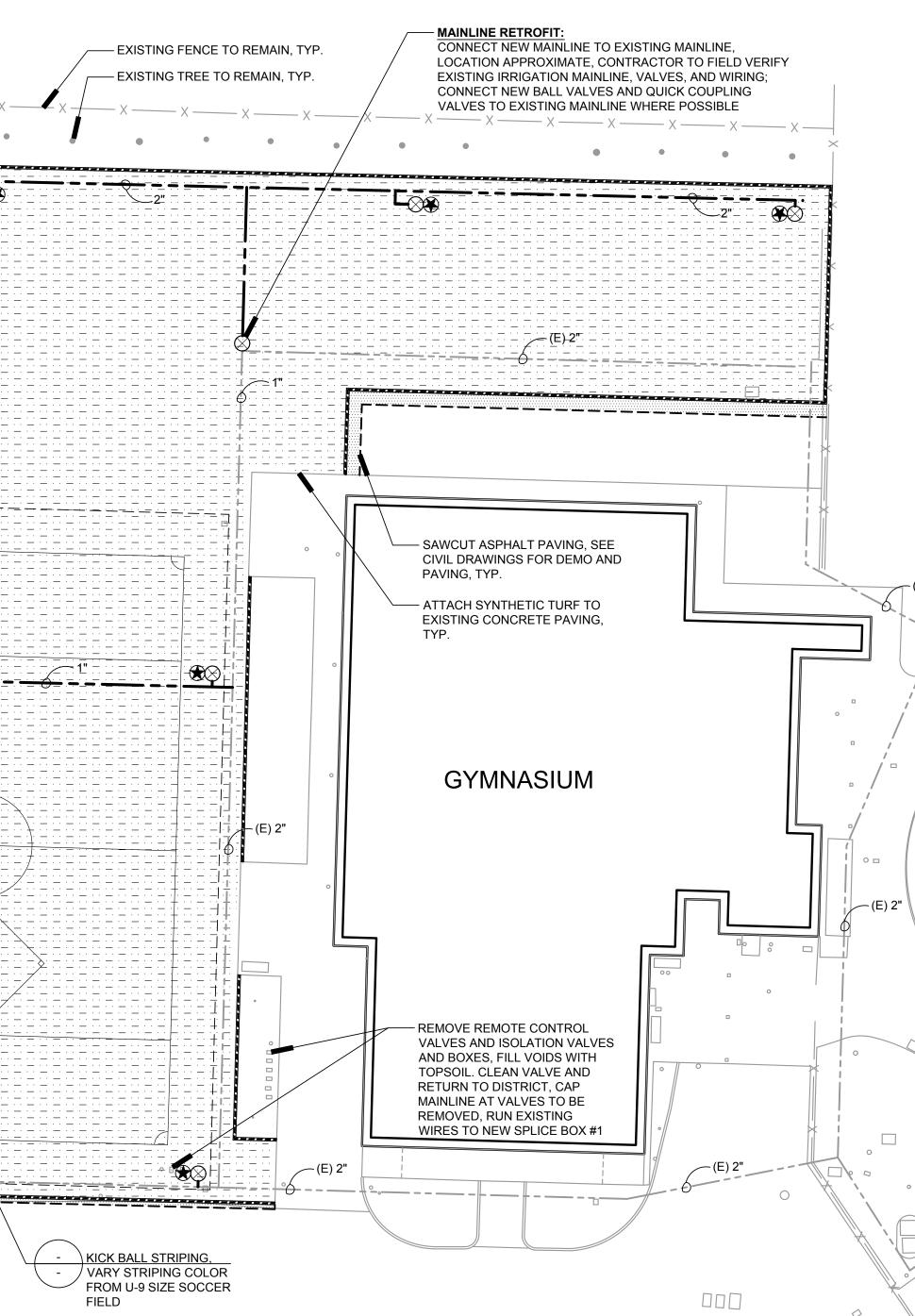


THESE NOTES ARE FOR GENERAL REFERENCE IN CONJUNCTION WITH, AND AS A SUPPLEMENT TO THE WRITTEN SPECIFICATIONS, DETAILS, ADDENDA AND CHANGE ORDERS ASSOCIATED WITH THE CONTRACT DOCUMENTS. - 2. CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO INSTALLATION.

- CONTRACTOR SHALL BECOME FAMILIAR WITH THE LOCATION OF ALL EXISTING AND PROPOSED UNDERGROUND SERVICES AND IMPROVEMENTS WHICH MAY CONFLICT WITH WORK TO BE DONE. CONTACT UNDERGROUND SERVICE ALERT (USA) AT (800) 642-2444 PRIOR TO DIGGING. NOTIFY OWNER IMMEDIATELY SHOULD CONFLICTS ARISE.
- CONTRACTOR SHALL LAY OUT PLANT MATERIAL PER PLAN AND FACE TO GIVE BEST APPEARANCE OR RELATION TO ADJACENT PLANTS, STRUCTURES OR VIEWS. CONTRACTOR TO OBTAIN APPROVAL FROM OWNER'S REPRESENTATIVE
- PLANT MATERIAL SHALL NOT BE INSTALLED IN AN AREA WHICH WILL CAUSE HARM TO ADJACENT STRUCTURES OR OBSTRUCT IRRIGATION SPRAY PATTERN. NOTIFY THE OWNER'S REPRESENTATIVE SHOULD CONFLICTS ARISE.
- PLANT LOCATIONS ARE DIAGRAMMATIC AND MAY BE ADJUSTED IN THE FIELD AT THE OWNER'S REPRESENTATIVE REQUEST PRIOR TO INSTALLATION. OBTAIN APPROVAL OF PLANT LAYOUT FROM THE OWNER'S REPRESENTATIVE PRIOR
- UNLESS OTHERWISE NOTED, FINISH GRADE OF SHRUB AND GROUND COVER AREAS SHALL BE 2" BELOW ADJACENT PAVING. TAPER 3" DEPTH BARK MULCH TOP DRESSING TO 1/2" BELOW ADJACENT PAVING (1-1/2" DEPTH) WITHIN 2' OF PAVING. FINISH GRADE OF SEEDED TURF AREAS SHALL BE 1/2" BELOW ADJACENT PAVING. FINISH GRADE OF SODDED
- PLANTING AREAS SHALL RECEIVE A 3" MIN. DEPTH BARK MULCH TOP DRESSING, UNLESS OTHERWISE NOTED. IN NON-BIORETENTION AREAS BARK MULCH SHALL BE REPUBLIC SERVICES PRO-CHIP MULCH, IN BIORETENTION AREAS BARK MULCH SHALL BE PACIFIC LANDSCAPE SUPPLY SHREDDED CEDAR BARK MULCH.
- 10. NEWLY PLANTED MATERIAL SHALL BE THOROUGHLY SOAKED WITH WATER WITHIN 3 HOURS OF PLANTING. EXISTING TREES, SHRUBS AND GROUND COVERS TO REMAIN SHALL BE PROTECTED. ANY DAMAGE CAUSED BY
- CONTRACTOR'S WORK OR NEGLIGENCE SHALL BE REPLACED OR REPAIRED AT THE CONTRACTOR'S EXPENSE TO THE
- 13. CONTRACTOR TO COLLECT AND SUBMIT SOIL SAMPLE TO LUCCHESI CONSULTING FOR SOIL AMENDING AND
- 14. CONTRACTOR SHALL COORDINATE ROUGH GRADING AND FINE GRADING TO ENSURE EXISTING SUITABLE TOPSOIL IS REMOVED, STOCKPILED AND REINSTALLED INTO PROPOSED LANDSCAPE AREAS PER LANDSCAPE SPECIFICATION SECTION 32 90 00. IN THE EVENT THERE IS NOT ENOUGH EXISTING TOPSOIL, OR NO PLACE TO STOCKPILE TOPSOIL, CONTRACTOR SHALL IMPORT AND INSTALL TOPSOIL PER LANDSCAPE SPECIFICATION SECTION 32 9000.
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IRRIGATION NOTES

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- THE IRRIGATION SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH LOCAL CODES AND REGULATIONS. CONTRACTOR TO CONFORM TO THE REQUIREMENTS OF NFPA 24, SECTION 8.1, MINIMUM 'DEPTH-OF-COVER' (36 INCHES) FOR PIPE TO INCLUDE FIRE LANE ROUTES OF ACCESS. THIS SYSTEM IS DESIGNED TO OPERATE AT ____PSI AND ____GPM FROM THE POINT OF CONNECTION. CONTRACTOR SHALL
- VERIFY PRESSURE AND FLOW PRIOR TO BEGINNING OF WORK. CONTACT OWNER'S REPRESENTATIVE IMMEDIATELY SHOULD CONFLICTS ARISE. THE IRRIGATION SYSTEM DESIGN IS DIAGRAMMATIC. WHERE PIPING, VALVES, ETC. ARE SHOWN OUTSIDE OF PLANTING AREAS, THE INTENT IS FOR PIPING, VALVES, ETC. TO BE INSTALLED WITHIN PLANTING AREAS UNLESS OTHERWISE NOTED
- AND DETAILED. CONTRACTOR SHALL COORDINATE IRRIGATION INSTALLATION WITH OTHER TRADES. CONTRACTOR TO COORDINATE AND VERIFY ALL SLEEVING, PIPING, ELECTRICAL SUPPLY, POINT OF CONNECTION, ETC.
- CONTRACTOR IS RESPONSIBLE FOR COMPLETE AND UNIFORM COVERAGE OF PLANTING AND TURF AREAS. CONTRACTOR TO THROTTLE THE FLOW CONTROL AT EACH VALVE TO OBTAIN OPTIMUM OPERATING PRESSURE FOR EACH CIRCUIT. ADJUST SPRAY HEADS AND NOZZLES FOR OPTIMUM COVERAGE WHILE PREVENTING OVERSPRAY ONTO WALKWAYS AND STRUCTURES. ADDITIONALLY, CONTRACTOR SHALL ADJUST ALL VALVES, NOZZLES, AND HEADS FOR OPTIMUM COVERAGE, AVOIDING MISTING, OVERSPRAY, OR UNDERSPRAY.
- 8. LATERAL LINES TO BE SIZED PER PIPE SIZING CHART.
- CONTRACTOR TO MAINTAIN AS-BUILT DRAWING SET TO BE AVAILABLE ON SITE AT ALL TIMES AND AT TIME OF SUBSTANTIAL COMPLETION REVIEW. CONTRACTOR SHALL PREPARE REDUCED, COLOR-CODED PLANS, LAMINATE, AND PLACE (1) IN CONTROLLER ENCLOSURE AND DELIVER (1) TO OWNER'S REPRESENTATIVE AFTER APPROVAL OF RECORD DRAWING SUBMITTAL AND PRIOR TO FINAL COMPLETION.
- 10. CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN TRENCHING AROUND EXISTING TREES AND SHRUBS. CONTRACTOR SHALL HAND TRENCH WHEN TRENCHING ACROSS ROOTS 2" AND LARGER TO PRESERVE ROOT SYSTEM. ROOTS SMALLER THAN 2" MAY BE TRIMMED. DO NOT TEAR ANY ROOTS.
- 11. THE CONTRACTOR SHALL BE RESPONSIBLE UNDER THIS CONTRACT FOR REPAIRING OR REPLACING, AT THEIR OWN EXPENSE, SURFACE AND SUBSURFACE SITE FEATURES TO REMAIN, INCLUDING BUT NOT LIMITED TO ANY STRUCTURES, FENCES, WALLS, PAVING SURFACES, PLANT MATERIAL AND/OR TREES DAMAGED OR DESTROYED, BOTH ON THIS PROPERTY OR THOSE PROPERTIES ADJACENT TO THIS SITE. THE DAMAGED ITEM(S) WILL BE RESTORED TO THEIR ORIGINAL CONDITION OR REPLACED TO THE SATISFACTION OF THE OWNER'S REPRÉSENTATIVE.



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- LANDSCAPE ARCHITECT IS NOT RESPONSIBLE FOR MEANS AND METHODS OF CONSTRUCTION. IF WORK WITHIN THIS SCOPE REQUIRES REMOVAL, RELOCATION, OR DEMOLITION OF EXISTING TO REMAIN IMPROVEMENTS, BOTH SURFACE AND KNOWN SUBSURFACE CONDITIONS, CONTRACTOR SHALL INCLUDE IN THE BID SUFFICIENT LABOR AND MATERIALS TO RESTORE EXISTING TO REMAIN IMPROVEMENTS IN KIND AND AS ACCEPTABLE TO OWNER'S REPRESENTATIVE.
- CONTRACTOR SHALL COORDINATE ROUGH GRADING AND FINE GRADING TO ENSURE EXISTING SUITABLE TOPSOIL IS REMOVED, STOCKPILED AND REINSTALLED INTO ALL PROPOSED LANDSCAPE AREAS PER LANDSCAPE SPECIFICATION SECTION 32 90 00. IN THE EVENT THERE IS NOT ENOUGH EXISTING TOPSOIL, OR NO PLACE TO STOCKPILE TOPSOIL, CONTRACTOR SHALL IMPORT AND INSTALL TOPSOIL PER LANDSCAPE SPECIFICATION SECTION 32 90 00.
- THE CONTRACTOR SHALL BE RESPONSIBLE UNDER THIS CONTRACT FOR REPAIRING OR REPLACING, AT THEIR OWN EXPENSE, SURFACE AND SUBSURFACE SITE FEATURES TO REMAIN. INCLUDING BUT NOT LIMITED TO ANY STRUCTURES, FENCES, WALLS, PAVING SURFACES, PLANT MATERIAL AND/OR TREES DAMAGED OR DESTROYED, BOTH ON THIS PROPERTY OR THOSE PROPERTIES ADJACENT TO THIS SITE. THE DAMAGED ITEM(S) WILL BE RESTORED TO THEIR ORIGINAL CONDITION OR REPLACED TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE.
- 8. CONTRACTOR SHALL ADJUST EXISTING UTILITY BOXES TO BE FLUSH WITH PROPOSED GRADES. 10. REFER TO SPECIFICTIONS AND CONSTRUCTION DETAILS ON SHEETS L.06.
 - NORTH SCALE: 1" = 20'-0"

PLEASE RECYCLE ଔଧ



HMC Arch 3542-006-000

333 W SAN CARLOS STREE SAN JOSE, CA 95110 408 977 9160 / www.hmcarch

ISSUE NO. DESCRIPTION 01 BRIDGING DOCU



Consultant's Project No. ANLA 2140

FACILITY: FACILITY NAME **BAYSIDE ACADEMY** 2025 KEHOE AVE SAN MATEO, CA 94403 PROJECT:

SHEET NAME: LANDSCAPE PLAN

BRIDGING DOCUMENTS

DATE: 12/21/2021 SHEET:

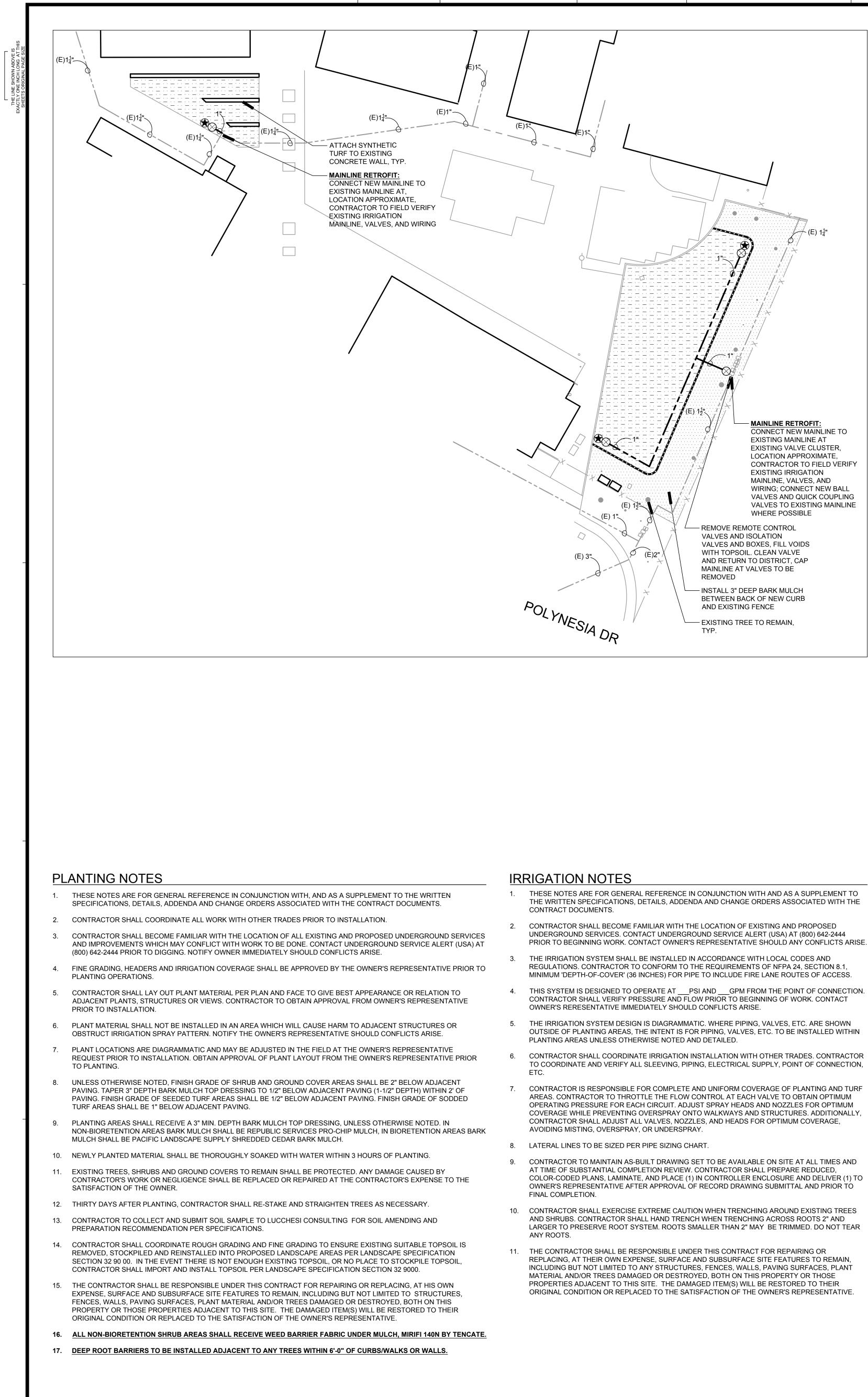


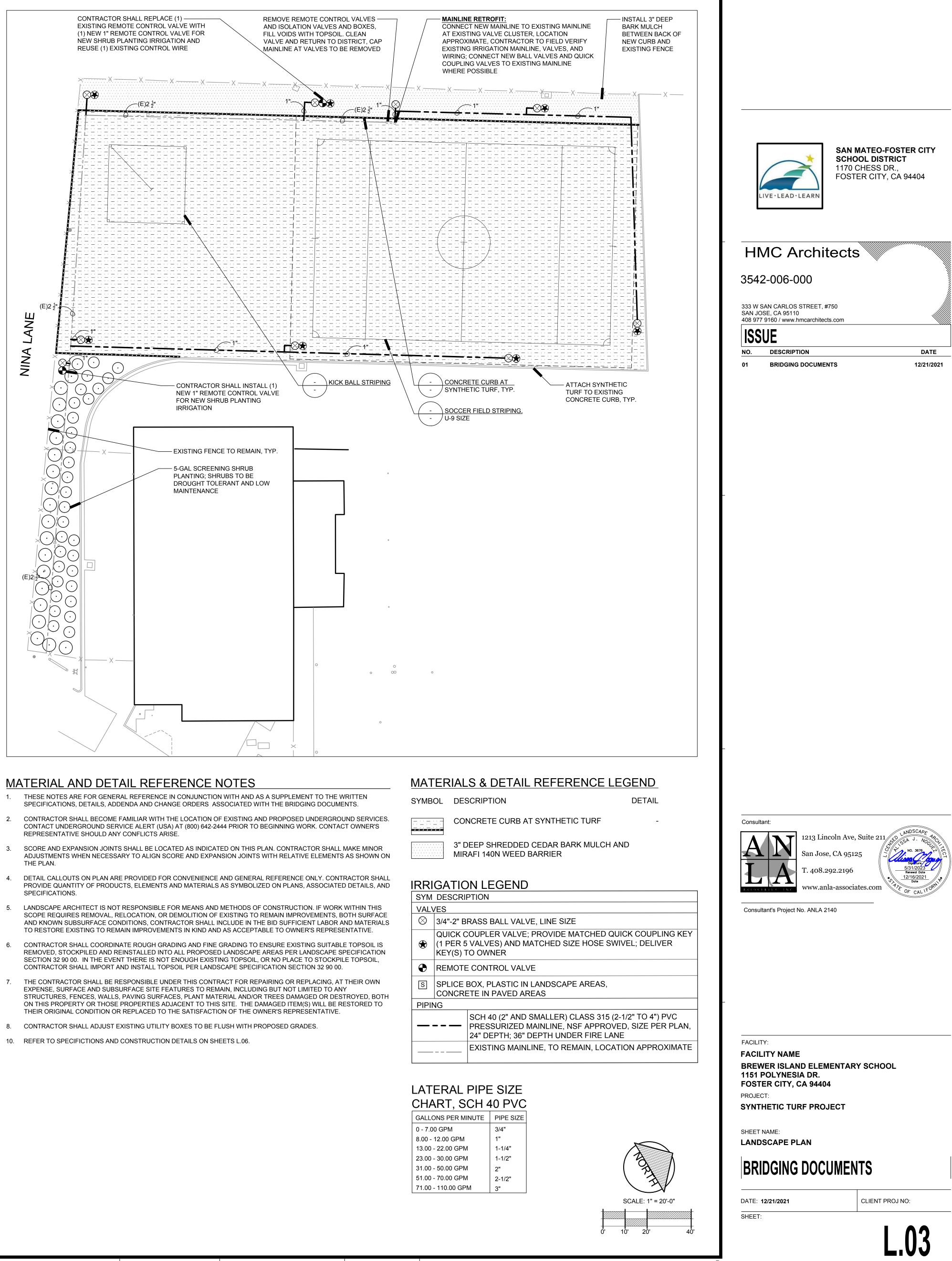
DATE





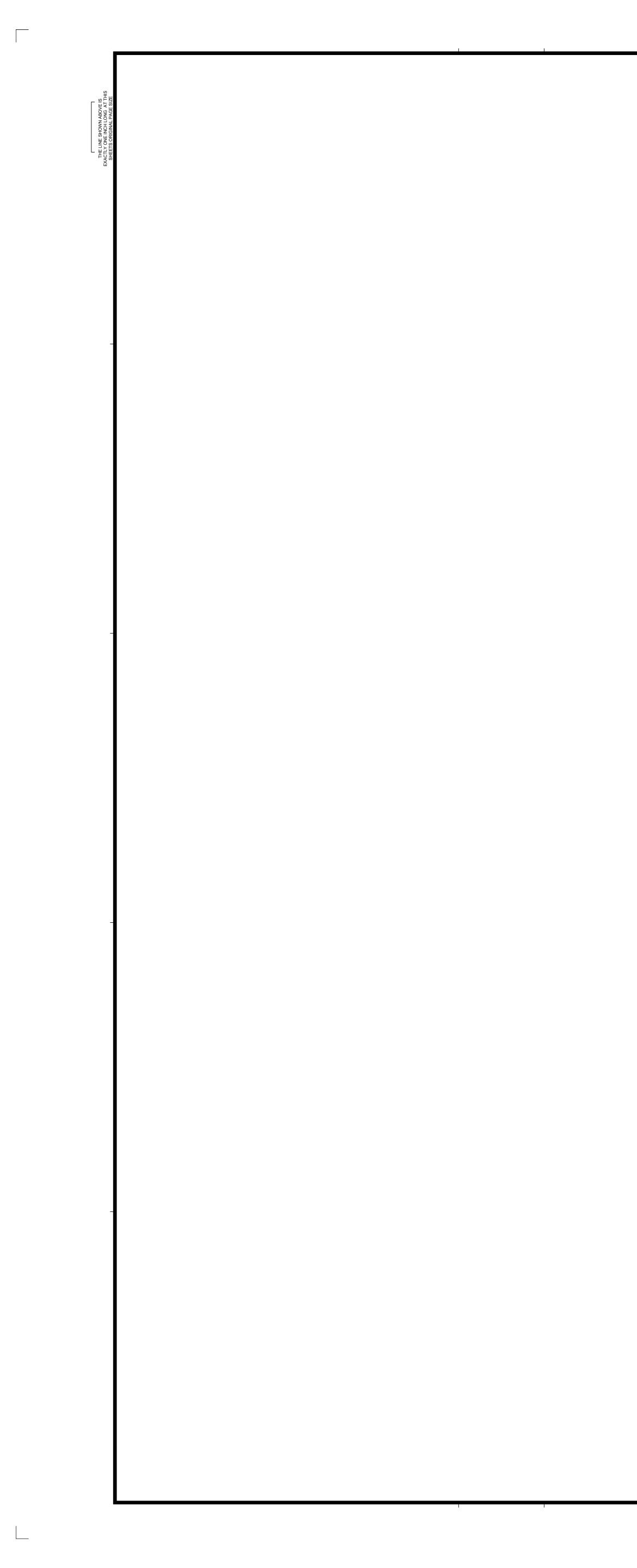






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IRRIGATION NOTES

- 1. THESE NOTES ARE FOR GENERAL REFERENCE IN CONJUNCTION WITH AND AS A SUPPLEMENT TO THE WRITTEN SPECIFICATIONS, DETAILS, ADDENDA AND CHANGE ORDERS ASSOCIATED WITH THE CONTRACT DOCUMENTS.
- 2. CONTRACTOR SHALL BECOME FAMILIAR WITH THE LOCATION OF EXISTING AND PROPOSED UNDERGROUND SERVICES. CONTACT UNDERGROUND SERVICE ALERT (USA) AT (800) 642-2444 PRIOR TO BEGINNING WORK. CONTACT OWNER'S REPRESENTATIVE SHOULD ANY CONFLICTS ARISE.
- 3. THE IRRIGATION SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH LOCAL CODES AND REGULATIONS. CONTRACTOR TO CONFORM TO THE REQUIREMENTS OF NFPA 24, SECTION 8.1, MINIMUM 'DEPTH-OF-COVER' (36 INCHES) FOR PIPE TO INCLUDE FIRE LANE ROUTES OF ACCESS.
- 4. THIS SYSTEM IS DESIGNED TO OPERATE AT ____PSI AND ___GPM FROM THE POINT OF CONNECTION. CONTRACTOR SHALL VERIFY PRESSURE AND FLOW PRIOR TO BEGINNING OF WORK. CONTACT OWNER'S REPRESENTATIVE IMMEDIATELY SHOULD CONFLICTS ARISE.
- 5. THE IRRIGATION SYSTEM DESIGN IS DIAGRAMMATIC. WHERE PIPING, VALVES, ETC. ARE SHOWN OUTSIDE OF PLANTING AREAS, THE INTENT IS FOR PIPING, VALVES, ETC. TO BE INSTALLED WITHIN PLANTING AREAS UNLESS OTHERWISE NOTED AND DETAILED.
- 6. CONTRACTOR SHALL COORDINATE IRRIGATION INSTALLATION WITH OTHER TRADES. CONTRACTOR TO COORDINATE AND VERIFY ALL SLEEVING, PIPING, ELECTRICAL SUPPLY, POINT OF CONNECTION, ETC.
- 7. CONTRACTOR IS RESPONSIBLE FOR COMPLETE AND UNIFORM COVERAGE OF PLANTING AND TURF AREAS. CONTRACTOR TO THROTTLE THE FLOW CONTROL AT EACH VALVE TO OBTAIN OPTIMUM OPERATING PRESSURE FOR EACH CIRCUIT. ADJUST SPRAY HEADS AND NOZZLES FOR OPTIMUM COVERAGE WHILE PREVENTING OVERSPRAY ONTO WALKWAYS AND STRUCTURES. ADDITIONALLY, CONTRACTOR SHALL ADJUST ALL VALVES, NOZZLES, AND HEADS FOR OPTIMUM COVERAGE, AVOIDING MISTING, OVERSPRAY, OR UNDERSPRAY.
- 8. LATERAL LINES TO BE SIZED PER PIPE SIZING CHART.
- 9. CONTRACTOR TO MAINTAIN AS-BUILT DRAWING SET TO BE AVAILABLE ON SITE AT ALL TIMES AND AT TIME OF SUBSTANTIAL COMPLETION REVIEW. CONTRACTOR SHALL PREPARE REDUCED, COLOR-CODED PLANS, LAMINATE, AND PLACE (1) IN CONTROLLER ENCLOSURE AND DELIVER (1) TO OWNER'S REPRESENTATIVE AFTER APPROVAL OF RECORD DRAWING SUBMITTAL AND PRIOR TO FINAL COMPLETION.
- 10. CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN TRENCHING AROUND EXISTING TREES AND SHRUBS. CONTRACTOR SHALL HAND TRENCH WHEN TRENCHING ACROSS ROOTS 2" AND LARGER TO PRESERVE ROOT SYSTEM. ROOTS SMALLER THAN 2" MAY BE TRIMMED. DO NOT TEAR ANY ROOTS.
- 11. THE CONTRACTOR SHALL BE RESPONSIBLE UNDER THIS CONTRACT FOR REPAIRING OR REPLACING, AT THEIR OWN EXPENSE, SURFACE AND SUBSURFACE SITE FEATURES TO REMAIN, INCLUDING BUT NOT LIMITED TO ANY STRUCTURES, FENCES, WALLS, PAVING SURFACES, PLANT MATERIAL AND/OR TREES DAMAGED OR DESTROYED, BOTH ON THIS PROPERTY OR THOSE PROPERTIES ADJACENT TO THIS SITE. THE DAMAGED ITEM(S) WILL BE RESTORED TO THEIR ORIGINAL CONDITION OR REPLACED TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE.

MATERIAL AND DETAIL REFERENCE NOTES

- 1. THESE NOTES ARE FOR GENERAL REFERENCE IN CONJUNCTION WITH AND AS A SUPPLEMENT TO THE WRITTEN SPECIFICATIONS, DETAILS, ADDENDA AND CHANGE ORDERS ASSOCIATED WITH THE BRIDGING DOCUMENTS. CONTRACTOR SHALL BECOME FAMILIAR WITH THE LOCATION OF EXISTING AND PROPOSED UNDERGROUND
- SERVICES. CONTACT UNDERGROUND SERVICE ALERT (USA) AT (800) 642-2444 PRIOR TO BEGINNING WORK. CONTACT OWNER'S REPRESENTATIVE SHOULD ANY CONFLICTS ARISE.
- 3. SCORE AND EXPANSION JOINTS SHALL BE LOCATED AS INDICATED ON THIS PLAN. CONTRACTOR SHALL MAKE MINOR ADJUSTMENTS WHEN NECESSARY TO ALIGN SCORE AND EXPANSION JOINTS WITH RELATIVE ELEMENTS AS SHOWN ON THE PLAN.
- 4. DETAIL CALLOUTS ON PLAN ARE PROVIDED FOR CONVENIENCE AND GENERAL REFERENCE ONLY CONTRACTOR SHALL PROVIDE QUANTITY OF PRODUCTS, ELEMENTS AND MATERIALS AS SYMBOLIZED ON PLANS, ASSOCIATED DETAILS, AND SPECIFICATIONS.
- 5. LANDSCAPE ARCHITECT IS NOT RESPONSIBLE FOR MEANS AND METHODS OF CONSTRUCTION. IF WORK WITHIN THIS SCOPE REQUIRES REMOVAL, RELOCATION, OR DEMOLITION OF EXISTING TO REMAIN IMPROVEMENTS, BOTH SURFACE AND KNOWN SUBSURFACE CONDITIONS, CONTRACTOR SHALL INCLUDE IN THE BID SUFFICIENT LABOR AND MATERIALS TO RESTORE EXISTING TO REMAIN IMPROVEMENTS IN KIND AND AS ACCEPTABLE TO OWNER'S REPRESENTATIVE.
- CONTRACTOR SHALL COORDINATE ROUGH GRADING AND FINE GRADING TO ENSURE EXISTING SUITABLE TOPSOIL IS REMOVED, STOCKPILED AND REINSTALLED INTO ALL PROPOSED LANDSCAPE AREAS PER LANDSCAPE SPECIFICATION SECTION 32 90 00. IN THE EVENT THERE IS NOT ENOUGH EXISTING TOPSOIL, OR NO PLACE TO STOCKPILE TOPSOIL, CONTRACTOR SHALL IMPORT AND INSTALL TOPSOIL PER LANDSCAPE SPECIFICATION SECTION 32 90 00.
- 7. THE CONTRACTOR SHALL BE RESPONSIBLE UNDER THIS CONTRACT FOR REPAIRING OR REPLACING, AT THEIR OWN EXPENSE, SURFACE AND SUBSURFACE SITE FEATURES TO REMAIN, INCLUDING BUT NOT LIMITED TO ANY STRUCTURES, FENCES, WALLS, PAVING SURFACES, PLANT MATERIAL AND/OR TREES DAMAGED OR DESTROYED, BOTH ON THIS PROPERTY OR THOSE PROPERTIES ADJACENT TO THIS SITE. THE DAMAGED ITEM(S) WILL BE RESTORED TO THEIR ORIGINAL CONDITION OR REPLACED TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE.
- 8. CONTRACTOR SHALL ADJUST EXISTING UTILITY BOXES TO BE FLUSH WITH PROPOSED GRADES.
- 10. REFER TO SPECIFICTIONS AND CONSTRUCTION DETAILS ON SHEETS L.06.

PLANTING NOTES

- 1. THESE NOTES ARE FOR GENERAL REFERENCE IN CONJUNCTION WITH, AND AS A SUPPLEMENT TO THE WRITTEN SPECIFICATIONS, DETAILS, ADDENDA AND CHANGE ORDERS ASSOCIATED WITH THE CONTRACT DOCUMENTS.
- 2. CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO INSTALLATION. CONTRACTOR SHALL BECOME FAMILIAR WITH THE LOCATION OF ALL EXISTING AND PROPOSED UNDERGROUND
- SERVICES AND IMPROVEMENTS WHICH MAY CONFLICT WITH WORK TO BE DONE. CONTACT UNDERGROUND SERVICE ALERT (USA) AT (800) 642-2444 PRIOR TO DIGGING. NOTIFY OWNER IMMEDIATELY SHOULD CONFLICTS ARISE
- 4. FINE GRADING, HEADERS AND IRRIGATION COVERAGE SHALL BE APPROVED BY THE OWNER'S REPRESENTATIVE PRIOR TO PLANTING OPERATIONS.
- 5. CONTRACTOR SHALL LAY OUT PLANT MATERIAL PER PLAN AND FACE TO GIVE BEST APPEARANCE OR RELATION TO ADJACENT PLANTS, STRUCTURES OR VIEWS. CONTRACTOR TO OBTAIN APPROVAL FROM OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
- 6. PLANT MATERIAL SHALL NOT BE INSTALLED IN AN AREA WHICH WILL CAUSE HARM TO ADJACENT STRUCTURES OR OBSTRUCT IRRIGATION SPRAY PATTERN. NOTIFY THE OWNER'S REPRESENTATIVE SHOULD CONFLICTS ARISE.
- 7. PLANT LOCATIONS ARE DIAGRAMMATIC AND MAY BE ADJUSTED IN THE FIELD AT THE OWNER'S REPRESENTATIVE REQUEST PRIOR TO INSTALLATION. OBTAIN APPROVAL OF PLANT LAYOUT FROM THE OWNER'S REPRESENTATIVE PRIOR TO PLANTING.
- 8. UNLESS OTHERWISE NOTED, FINISH GRADE OF SHRUB AND GROUND COVER AREAS SHALL BE 2" BELOW ADJACENT PAVING. TAPER 3" DEPTH BARK MULCH TOP DRESSING TO 1/2" BELOW ADJACENT PAVING (1-1/2" DEPTH) WITHIN 2' OF PAVING. FINISH GRADE OF SEEDED TURF AREAS SHALL BE 1/2" BELOW ADJACENT PAVING. FINISH GRADE OF SODDED TURF AREAS SHALL BE 1" BELOW ADJACENT PAVING.
- 9. PLANTING AREAS SHALL RECEIVE A 3" MIN. DEPTH BARK MULCH TOP DRESSING, UNLESS OTHERWISE NOTED. IN NON-BIORETENTION AREAS BARK MULCH SHALL BE REPUBLIC SERVICES PRO-CHIP MULCH, IN BIORETENTION AREAS BARK MULCH SHALL BE PACIFIC LANDSCAPE SUPPLY SHREDDED CEDAR BARK MULCH. 10. NEWLY PLANTED MATERIAL SHALL BE THOROUGHLY SOAKED WITH WATER WITHIN 3 HOURS OF PLANTING.
- 11. EXISTING TREES, SHRUBS AND GROUND COVERS TO REMAIN SHALL BE PROTECTED. ANY DAMAGE CAUSED BY CONTRACTOR'S WORK OR NEGLIGENCE SHALL BE REPLACED OR REPAIRED AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.
- 12. THIRTY DAYS AFTER PLANTING, CONTRACTOR SHALL RE-STAKE AND STRAIGHTEN TREES AS NECESSARY
- 13. CONTRACTOR TO COLLECT AND SUBMIT SOIL SAMPLE TO LUCCHESI CONSULTING FOR SOIL AMENDING AND PREPARATION RECOMMENDATION PER SPECIFICATIONS.
- 14. CONTRACTOR SHALL COORDINATE ROUGH GRADING AND FINE GRADING TO ENSURE EXISTING SUITABLE TOPSOIL IS REMOVED, STOCKPILED AND REINSTALLED INTO PROPOSED LANDSCAPE AREAS PER LANDSCAPE SPECIFICATION SECTION 32 90 00. IN THE EVENT THERE IS NOT ENOUGH EXISTING TOPSOIL, OR NO PLACE TO STOCKPILE TOPSOIL, CONTRACTOR SHALL IMPORT AND INSTALL TOPSOIL PER LANDSCAPE SPECIFICATION SECTION 32 9000.
- 15. THE CONTRACTOR SHALL BE RESPONSIBLE UNDER THIS CONTRACT FOR REPAIRING OR REPLACING, AT HIS OWN EXPENSE. SURFACE AND SUBSURFACE SITE FEATURES TO REMAIN. INCLUDING BUT NOT LIMITED TO STRUCTURES, FENCES, WALLS, PAVING SURFACES, PLANT MATERIAL AND/OR TREES DAMAGED OR DESTROYED, BOTH ON THIS PROPERTY OR THOSE PROPERTIES ADJACENT TO THIS SITE. THE DAMAGED ITEM(S) WILL BE RESTORED TO THEIR ORIGINAL CONDITION OR REPLACED TO THE SATISFACTION OF THE
- 16. ALL NON-BIORETENTION SHRUB AREAS SHALL RECEIVE WEED BARRIER FABRIC UNDER MULCH, MIRIFI 140N BY TENCATE.
- 17. DEEP ROOT BARRIERS TO BE INSTALLED ADJACENT TO ANY TREES WITHIN 6'-0" OF CURBS/WALKS OR WALLS.

MATERIALS & DETAIL REFERENCE LEGEND SYMBOL DESCRIPTION

CONCRETE CURB AT SYNTHETIC TURF · · __ · ·

IRRIGATION LEGEND

SYM	1 DESCRIPTION				
VAL	VES				
\otimes	EXISTING ISOLATION VALVE TO REMAIN				
	EXISTIN	G QUICK COUPLING VALVE TO REMAIN			
\otimes	NEW ISOLATION VALVE				
۲	NEW QU	IICK COUPLING VALVE			
×	REMOTE	E CONTROL VALVE TO BE REMOVED			
PIPI	NG				
EXISTING MAINLINE TO REMAIN, LOCATION APPROXIMATE					
SCH 40 (2" AND SMALLER) CLASS 315 (2-1/2" TO 4") PVC PRESSURIZED MAINLINE, NSF APPROVED, SIZE PER PLAI 24" DEPTH; 36" DEPTH UNDER FIRE LANE					

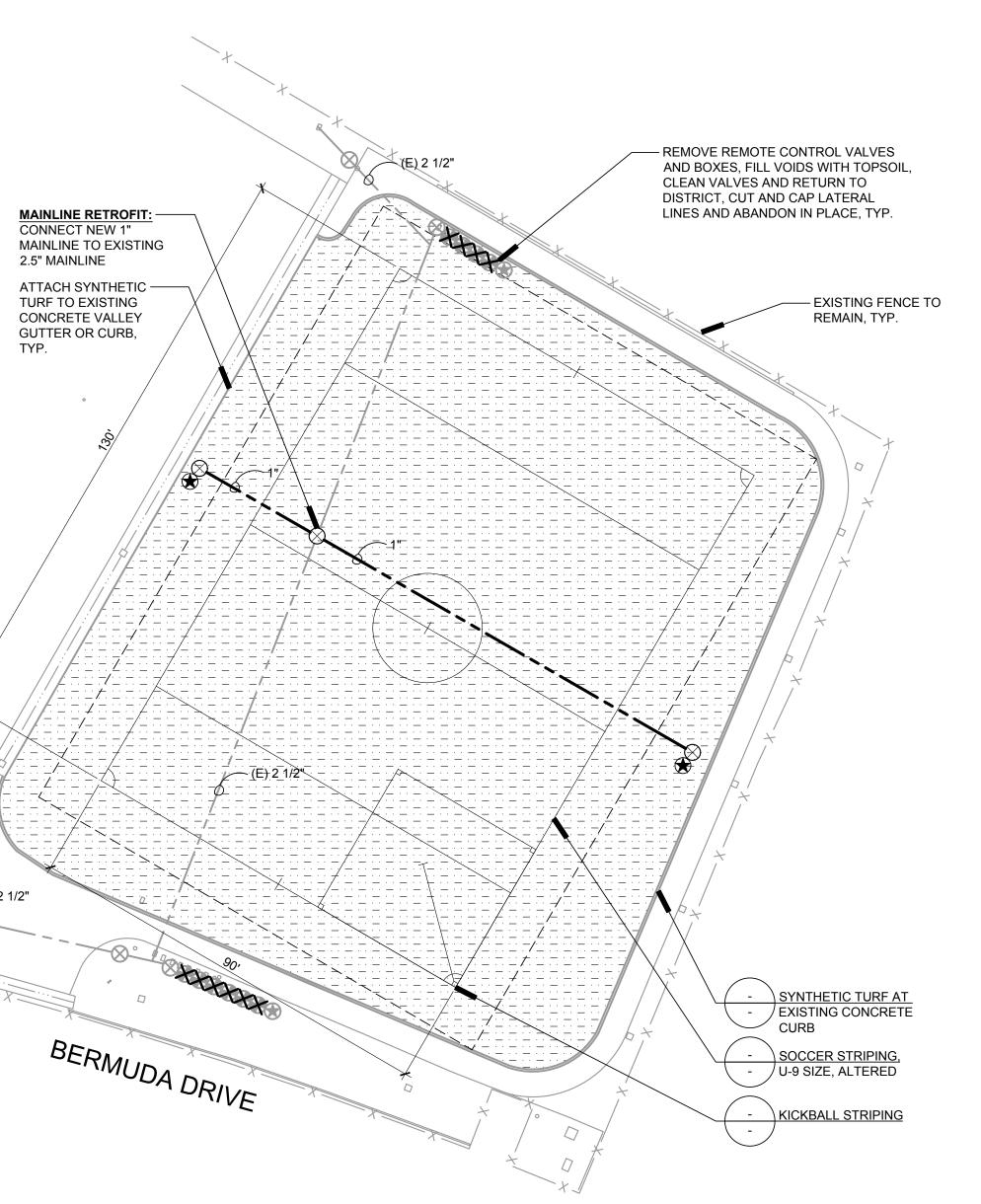
LATERAL PIPE SIZE CHART, SCH 40 PVC GALLONS PER MINUTE | PIPE SIZE

GALLONS PER MINUTE	PIPE SIZE
0 - 7.00 GPM	3/4"
8.00 - 12.00 GPM	1"
13.00 - 22.00 GPM	1-1/4"
23.00 - 30.00 GPM	1-1/2"
31.00 - 50.00 GPM	2"
51.00 - 70.00 GPM	2-1/2"
71.00 - 110.00 GPM	3"

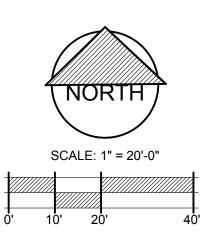
(E) 2 1/2"	
- X - X	

TYP.

OWNER'S REPRESENTATIVE.



DETAIL







HMC Architects 3542-006-000

SAN JOSE, CA 95110 408 977 9160 / www.hmcarchitects.com ISSUE NO. DESCRIPTION

01



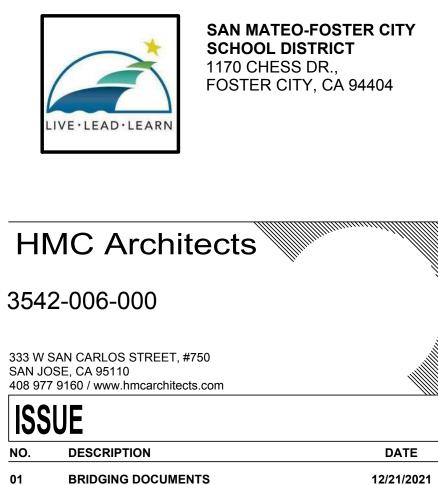
Consultant's Project No.

FACILITY: FACILITY NAME FIESTA GARDENS ELEMENTARY SCHOOL 1001 BERMUDA DR. SAN MATEO, CA 94403 PROJECT: SYNTHETIC TURF PROJECT

SHEET NAME: LANDSCAPE PLAN

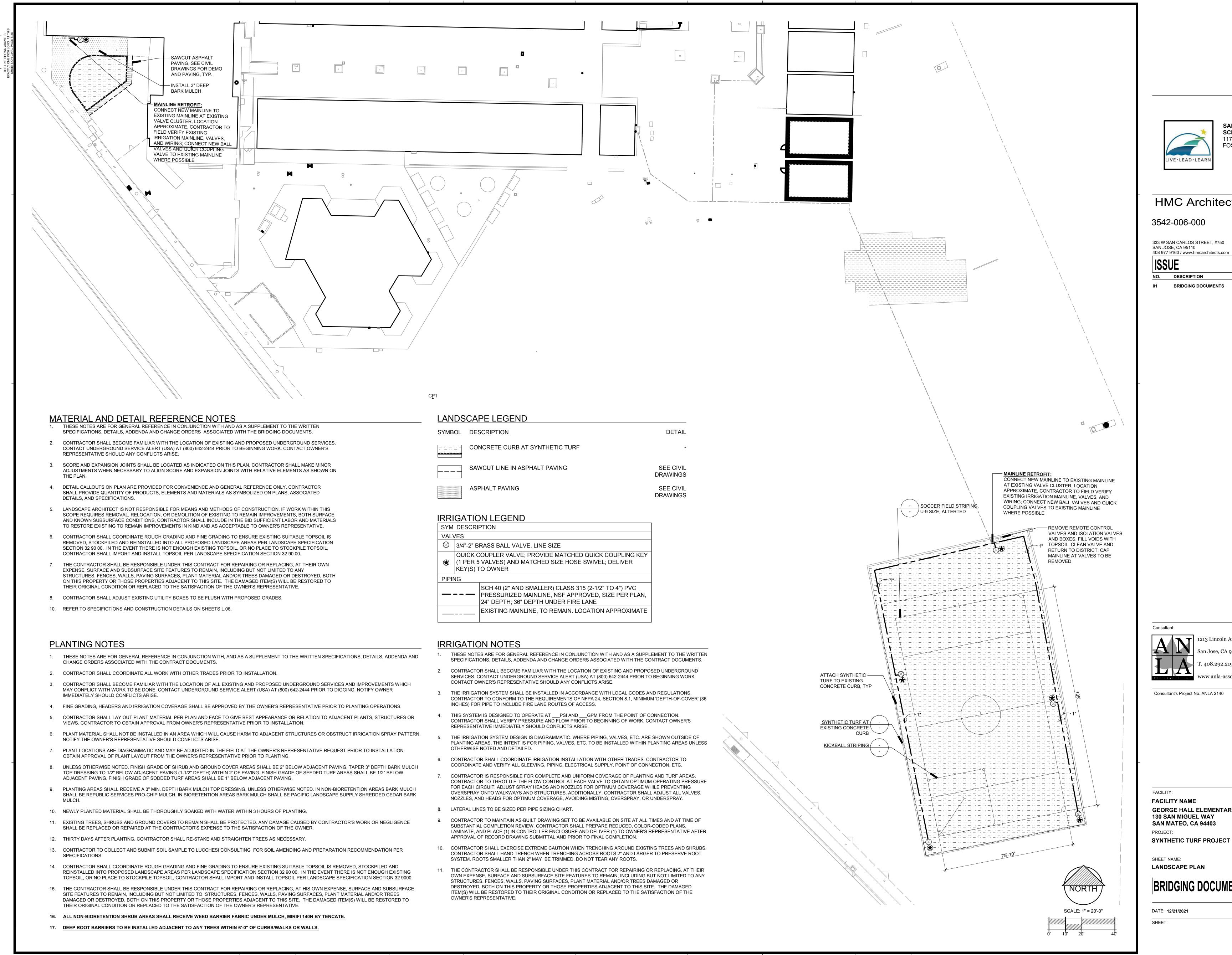
BRIDGING DOCUMENTS

DATE: 12/21/2021 SHEET:







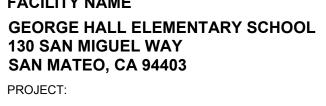


SYM DESCRIPTION								
VAL	VALVES							
\otimes	3/4"-2" BRASS BALL VALVE, LINE SIZE							
•	QUICK COUPLER VALVE; PROVIDE MATCHED QUICK COUPLING KEY (1 PER 5 VALVES) AND MATCHED SIZE HOSE SWIVEL; DELIVER KEY(S) TO OWNER							
PIPI	PIPING							
		SCH 40 (2" AND SMALLER) CLASS 315 (2-1/2" TO 4") PVC PRESSURIZED MAINLINE, NSF APPROVED, SIZE PER PLAN, 24" DEPTH; 36" DEPTH UNDER FIRE LANE						
		EXISTING MAINLINE, TO REMAIN. LOCATION APPROXIMATE						

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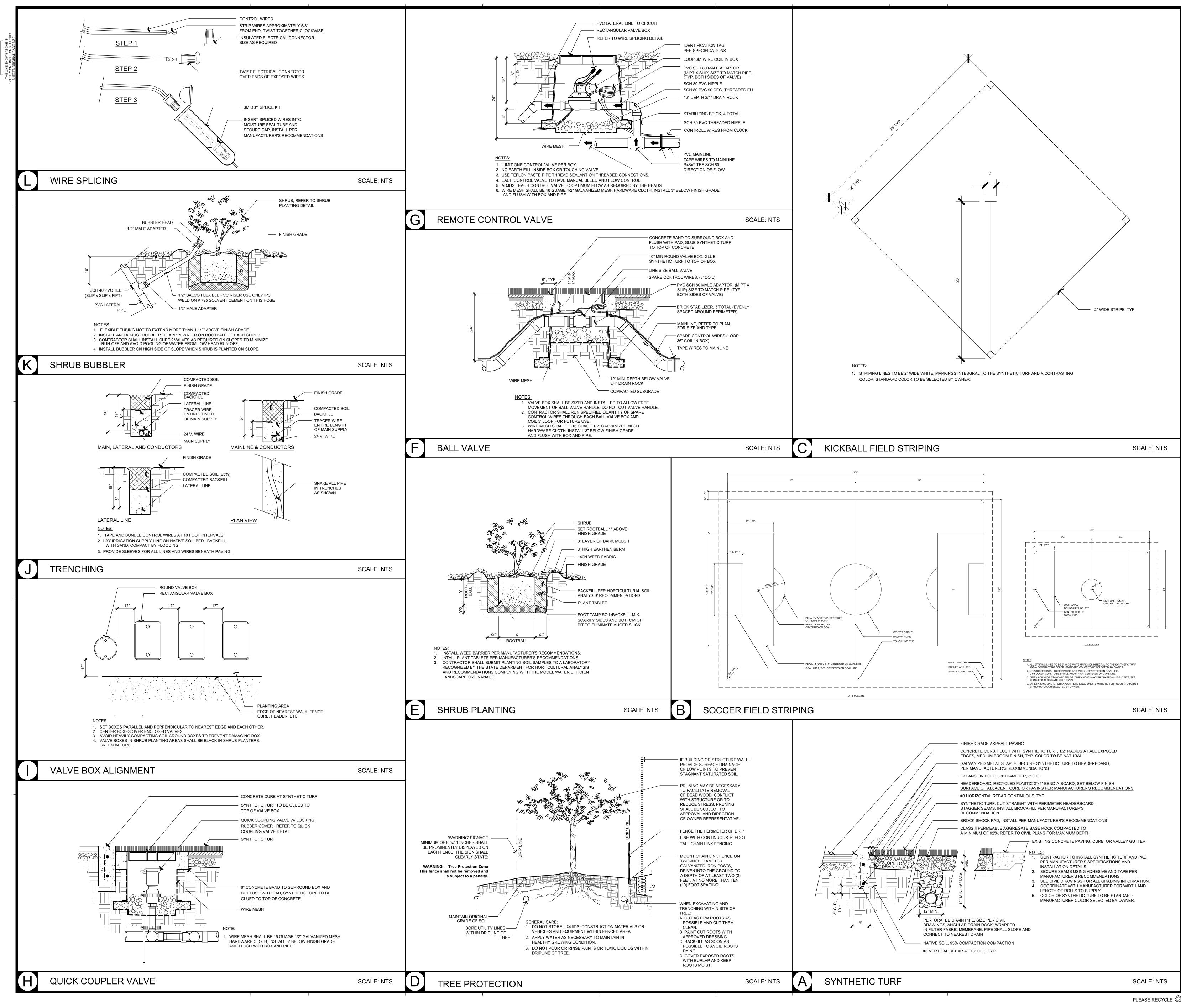
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ISSUE

01

Consultant:

FACILITY:

PROJECT: SYNTHETIC TURF PROJECT

SHEET NAME: LANDSCAPE DETAILS



DATE: 12/21/2021 SHEET:



SAN MATEO-FOSTER CITY SCHOOL DISTRICT 1170 CHESS DR., FOSTER CITY, CA 94404

HMC Architects

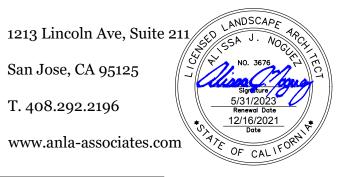
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NO. DESCRIPTION BRIDGING DOCUMENTS

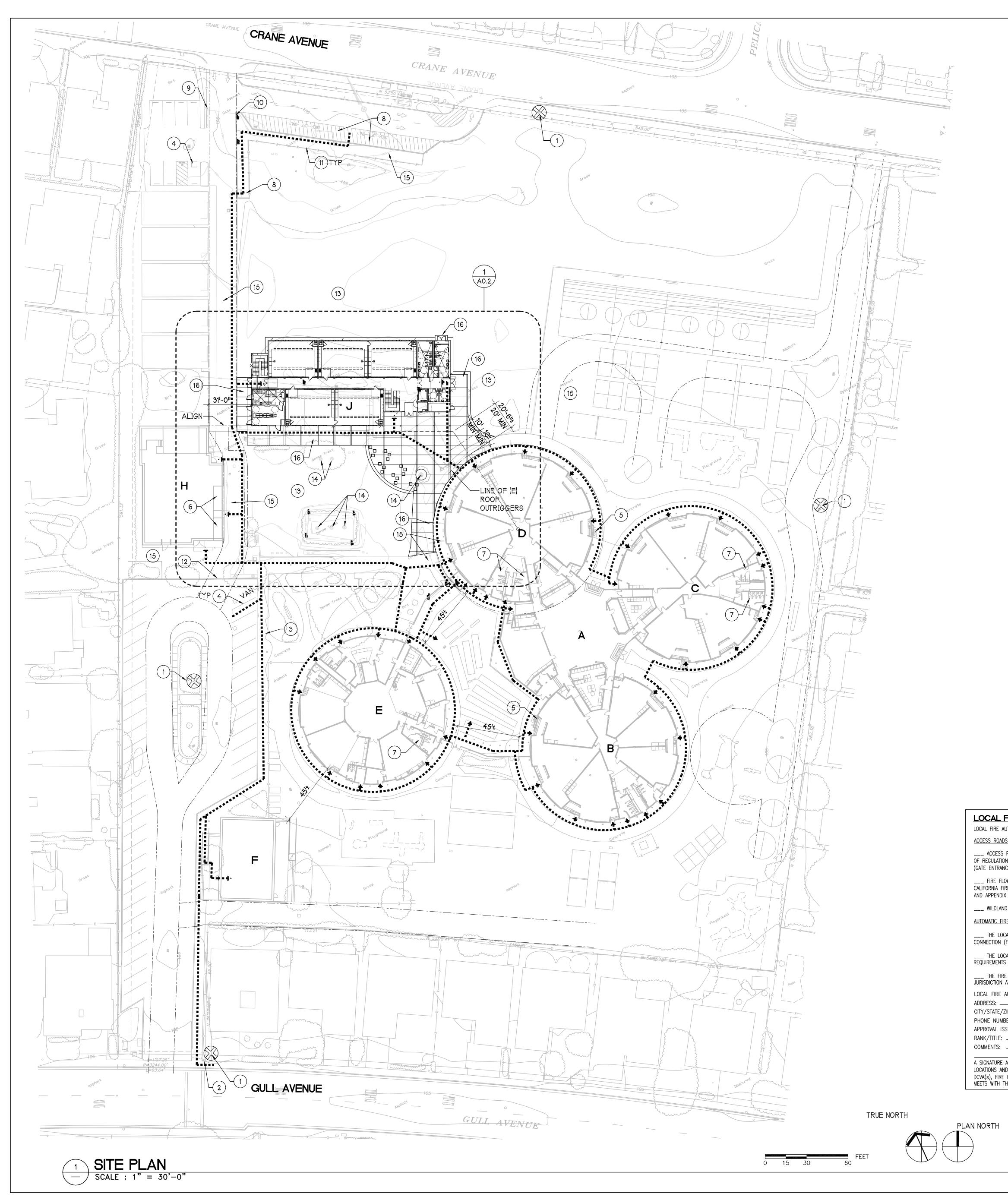
12/21/2021

DATE



Consultant's Project No. ANLA 2140





SHEET NOTES

- 1. (E) FIRE HYDRANT
- 2. (E) TOW-AWAY SIGN, DSA #01-101835
- 3. (E) ACCESSIBLE CURB CUT AND RAMP, DSA #01-107961
- 4. (E) ACCESSIBLE PARKING, STRIPING, AND SIGNAGE, DSA #01-110563 (MOST RECENT)
- 5. (E) ACCESSIBLE DRINKING FOUNTAIN, DSA #01-101835
- 6. (E) ACCESSIBLE TOILET, DSA #68828
- 7. (E) ACCESSIBLE TOILET, DSA #01-101835
- 8. (E) CURB RAMP AND DROP OFF AREA, DSA #01-110563
- 9. (E) FIRE DEPT. KNOX BOX
- 10. (E) CHAIN LINK VEHICLE GATE
- 11. (E) CHAIN LINK FENCE
- 12. (E) VEHICLE CURB CUT
- 13. (E) LAWN, PROTECT AND REPLACE DAMAGED LAWN IN-KIND (INCL. SUBSTRATE AND IRRIGATION AS APPLICABLE)
- 14. (E) TREE, PROTECT
- 15. (E) PAVING
- 16. CONCRETE PAVING, S.C.D. AND S.L.D.
- 17. A.C. PAVING, S.C.D.

BUILDING CODE DATA

#28871, #01-101835 LIBRARY OCCUPANCY GROUP: CONSTRUCTION TYPE: V-B, UNSPRINKLERED BASE ALLOWABLE AREA: 9,500 SF 6,957 SF 2-HR. AREA SEPARATION WALL

> #28871, #01-101835 CLASSROOM

V-B, UNSPRINKLERED

#28871, #01-101835

V-B, UNSPRINKLERED

V-B, UNSPRINKLERED

CLASSROOM

9,500 SF

9,291 SF.

9,500 SF

9,107 SF.

9,500 SF

9,260 SF.

#01-101808

CLASSROOM

9,500 SF

2,400 SF.

#68828

V-B, UNSPRINKLERED

OCCUPANCY GROUP: CONSTRUCTION TYPE: BASE ALLOWABLE AREA: ACTUAL AREA:

<u>(E) BLDG. A</u> DSA APP.

ACTUAL AREA: REMARKS:

<u>(E) BLDG. B</u> DSA APP.

ACTUAL AREA:

USE:

USE:

USE:

USE:

<u>(E) BLDG. C</u> DSA APP. USE: OCCUPANCY GROUP: CONSTRUCTION TYPE: BASE ALLOWABLE AREA:

<u>(E) BLDG. D</u> DSA APP. #28871, #01-101835 CLASSROOM

OCCUPANCY GROUP: CONSTRUCTION TYPE: BASE ALLOWABLE AREA: ACTUAL AREA:

<u>(E) BLDG. E</u> DSA APP. #28871, #01-101835 CLASSROOM/ADMIN. OCCUPANCY GROUP: CONSTRUCTION TYPE: V-A, UNSPRINKLERED BASE ALLOWABLE AREA: 18,500 SF ACTUAL AREA: 9,360 SF.

<u>(E) BLDG. F</u> DSA APP. USE: OCCUPANCY GROUP: CONSTRUCTION TYPE: BASE ALLOWABLE AREA: ACTUAL AREA:

(E) BLDG. G1-G2 (PREVIOUSLY REMOVED FROM SITE)

<u>(E) BLDG. H</u> DSA APP. USE: OCCUPANCY GROUP: CONSTRUCTION TYPE:

ACTUAL AREA:

BASE ALLOWABLE AREA:

MULTI-PURPOSE A-3 V-A, UNSPRINKLERED 18,500 SF 4,776 SF

#01-105364, #01-107961

V-B, UNSPRINKLERED

CLASSROOM

<u>(E) BLDG. I1-I2-I3</u> DSA APP. USE: OCCUPANCY GROUP: CONSTRUCTION TYPE:

BASE ALLOWABLE AREA: 9,500 SF ACTUAL AREA: 2,400 SF. (E) BLDG. R1-R2-R3-R4-R5 DSA APP.

USE: OCCUPANCY GROUP: CONSTRUCTION TYPE: BASE ALLOWABLE AREA: 9,500 SF ACTUAL AREA:

#01-110563 CLASSROOM V-B, UNSPRINKLERED 4,800 SF.

<u>NEW BLDG. J</u> DSA APP.

USE

OCCUPANCY GROUP: CONSTRUCTION TYPE: STORYS: BASE ALLOWABLE AREA: 9,500 SF SPRINKLERED ALLOWABLE: 19,000 SF, 2 STORY ACTUAL AREA:

V-B, SPRINKLERED

14,331 SF., 2 STORY

<THIS APPLICATION> CLASSROOM

LOCAL FIRE AUTHORITY REVIEW

LEGEND

LOCAL FIRE AUTHORITY TO INITIAL THE ITEMS AS APPLICABLE TO THIS PROJECT AND SIGN BELOW: ACCESS ROADS AND FIRE HYDRANTS

____ ACCESS ROADS AND GATES ENTRANCES ARE IN ACCORDANCE WITH TITLE 19, CALIFORNIA CODE OF REGULATIONS DIV. 1, CHAP. 1, SUB-CHAP. 1, ARTICLE 3.05 (ACCESS ROADS) AND ARTICLE 3.16 (GATE ENTRANCES) TO SCHOOL SITES.

____ FIRE FLOW, FIRE HYDRANT LOCATION AND DISTRIBUTION ARE IN ACCORDANCE WITH THE 2010 CALIFORNIA FIRE CODE (2009 I.F.C. WITH CALIFORNIA AMMENDMENTS), APPENDIX BB (FIRE FLOW) AND APPENDIX CC (FIRE HYDRANT LOCATIONS.)

____ WILDLAND URBAN INTERFACE AREA.

AUTOMATIC FIRE SPRINKLER SYSTEMS

____ THE LOCATIONS(s) OF THE PROPOSED POST INDICATOR VALVE (PIV) AND FIRE DEPARTMENT CONNECTION (FDC) MEETS THE REQUIREMENTS OF THIS JURISDICTION AT THIS TIME.

____ THE LOCATIONS(s) OF THE DETECTOR CHECK VALVE ASSEMBLY (DCVA) MEETS THE REQUIREMENTS OF THIS JURISDICTION AT THIS TIME.

____ THE FIRE PUMP ASSEMBLY/BACKFLOW PREVENTER MEETS THE REQUIREMENTS OF THIS JURISDICTION AT THIS TIME. LOCAL FIRE AUTHORITY: ADDRESS: -CITY/STATE/ZIP: _ PHONE NUMBER: ____ _____ DATE: _____ APPROVAL ISSUED BY: _____

COMMENTS: A SIGNATURE ABOVE SIGNIFIES THAT THE LOCAL FIRE AUTHORITY HAS REVIEWED THE PROPOSED LOCATIONS AND WAS CONSULTED REGARDING THE PLACEMENT/DESIGN OF THE PIV(s), FDC(s), DCVA(s), FIRE PUMPS(s), AND HYDRANTS. THE CURRENT CONFIGURATION SHOWN, AS OF THIS DATE, MEETS WITH THE CURRENT STANDARDS.

PROPERTY LINE

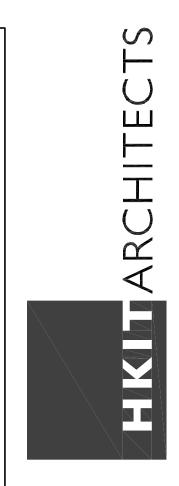
(E) FIRE HYDRANT

(E) 2-HOUR AREA SEPARATION

ACCESSIBLE PATH OF TRAVEL AS INDICATED ON PLAN IS A BARRIER-FREE ACCESS ROUTE WITHOUT ANY ABRUPT LEVEL CHANGES EXCEEDING 1/2" IF BEVELED AT 1:2 MAX SLOPE, OR VERTICAL LEVEL CHANGES NOT EXCEEDING 1/4" MAX, AND AT LEAST 48" IN WIDTH. SURFACE IS STABLE, FIRM, AND SLIP RESISTANT. CROSS SLOPE DOES NOT EXCEED 2%%% AND SLOPE IN THE DIRECTION OF TRAVEL IS LESS THAN 5%%%, UNLESS OTHERWISE INDICATED. ACCESS PATH OF TRAVEL SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MINIMUM, AND PROTRUDING OBJECTS GREATER THAN 4" PROJECTION FROM WALL AND ABOVE 27" LESS THAN 80". G.C. TO VERIFY THAT THERE ARE NO BARRIERS IN THE PATH OF TRAVEL. ACCESSIBLE PATH OF TRAVEL CONTAINS 'PASSING SPACES' A MINIMUM OF 60" X 60", LOCATED NOT GREATER THAN 200' APART. SEGMENTS OF ACCESSIBLE PATH OF TRAVEL HAVING CONTINUOUS GRADIENTS HAVE LEVEL AREAS, A MINIMUM OF 60" LONG, NOT GREATER THAN 400' APART. (CBC 1133B).

(E) FIRE LANE

_____ _____



AUDUBON ELEMENTARY SCHOOL CLASSROOM BUILDING FOSTER CITY, CALIFORNIA

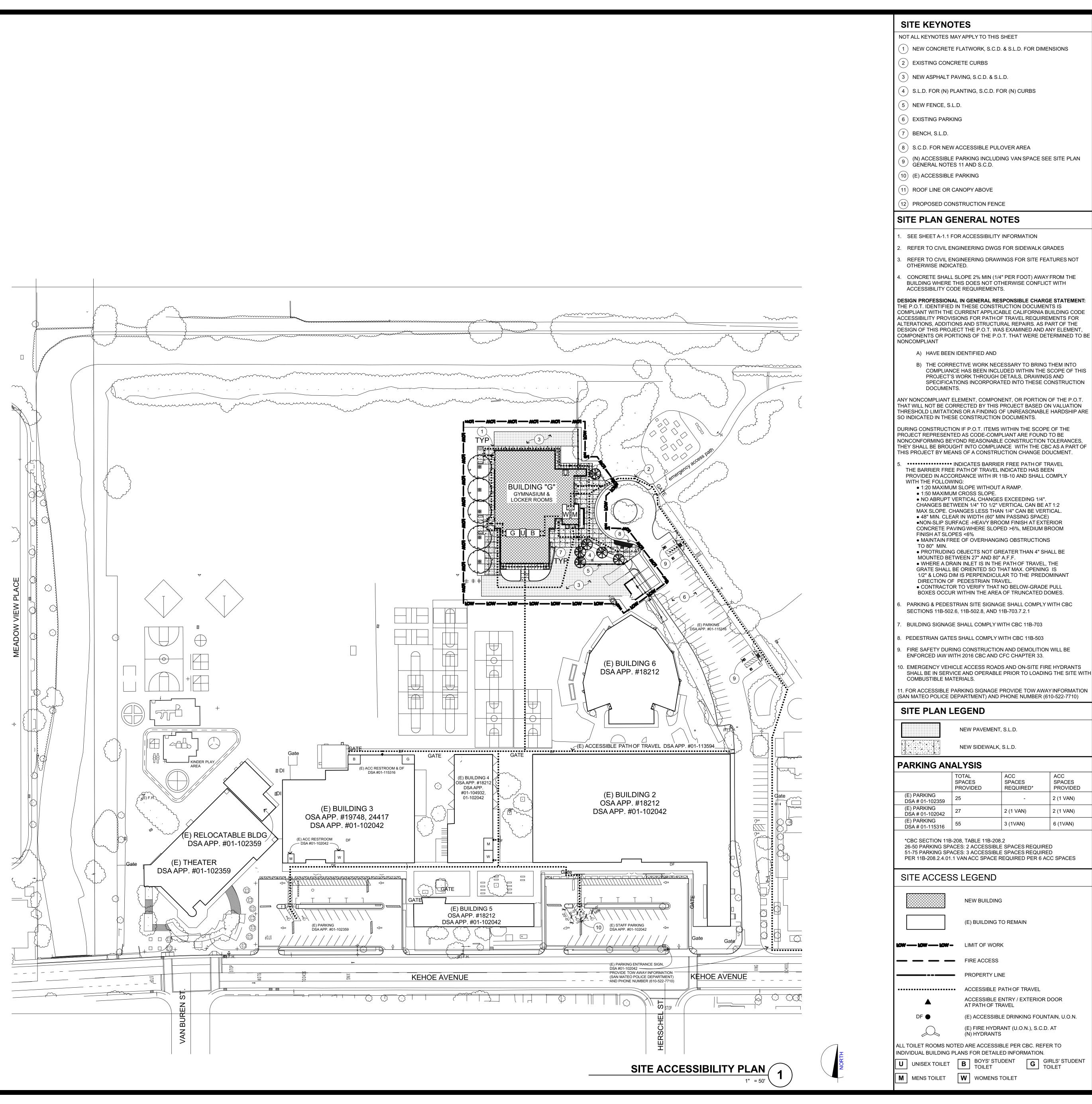
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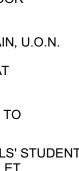
FH 10/22/12

DRAWING TITLE SITE PLAN



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QUATTROCCHI KWOK ARCHITECTS 636 FIFTH ST. SANTA ROSA, CA 95404 (707) 576-0829 (707) 576-0295 FAX ED ARCA STEVEN KWOK ★ LICENSE # C20161

EXP APRIL 30, 2019

SIGNED: OCTOBER 3, 2018

BAYSIDE ACADEMY

NEW

GYMNASIUM

2025 Kehoe Avenue

San Mateo, CA 94403

SAN MATEO FOSTER

DISTRICT

APPROVED

REVIEWED FOR

11/06/2018

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DIV. OF THE STATE ARCHITECT

APP.01-117464 INC:

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DATE:

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ARCH PROJECT NO:

DRAWING SCALE:

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OCTOBER 3, 2018

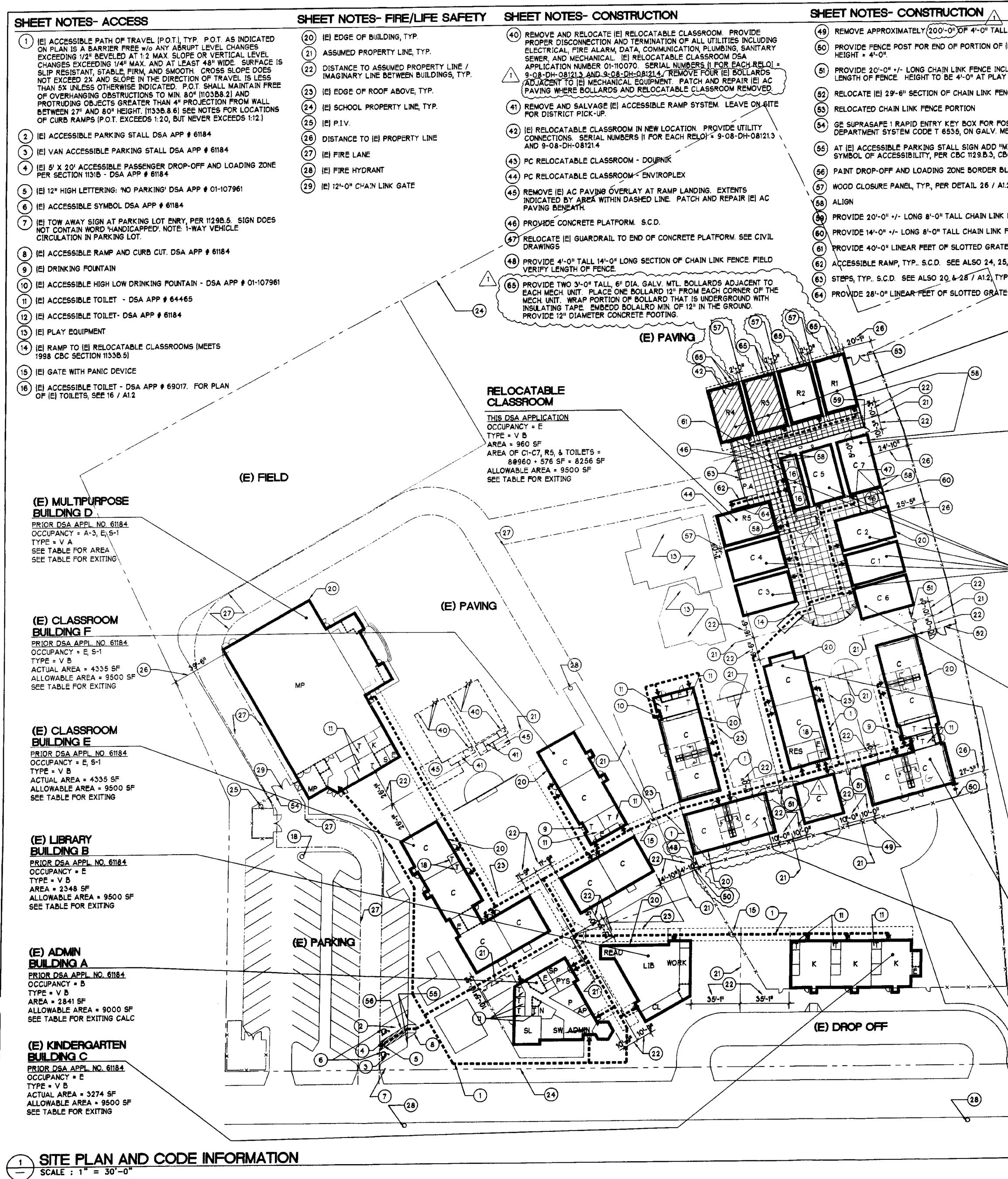
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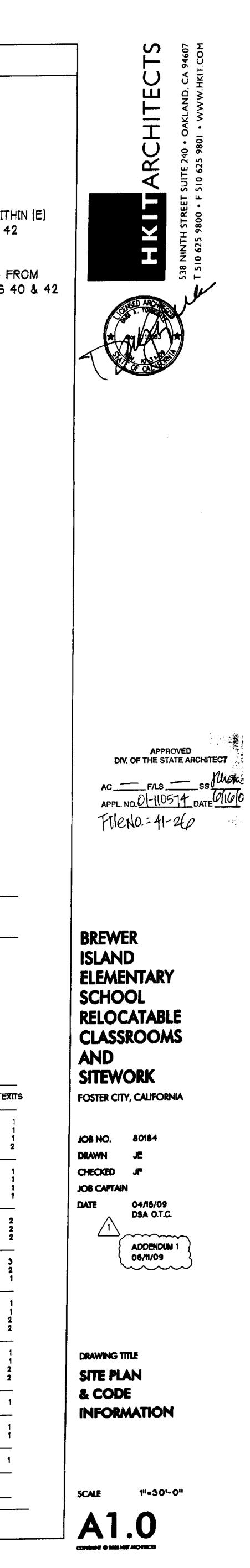
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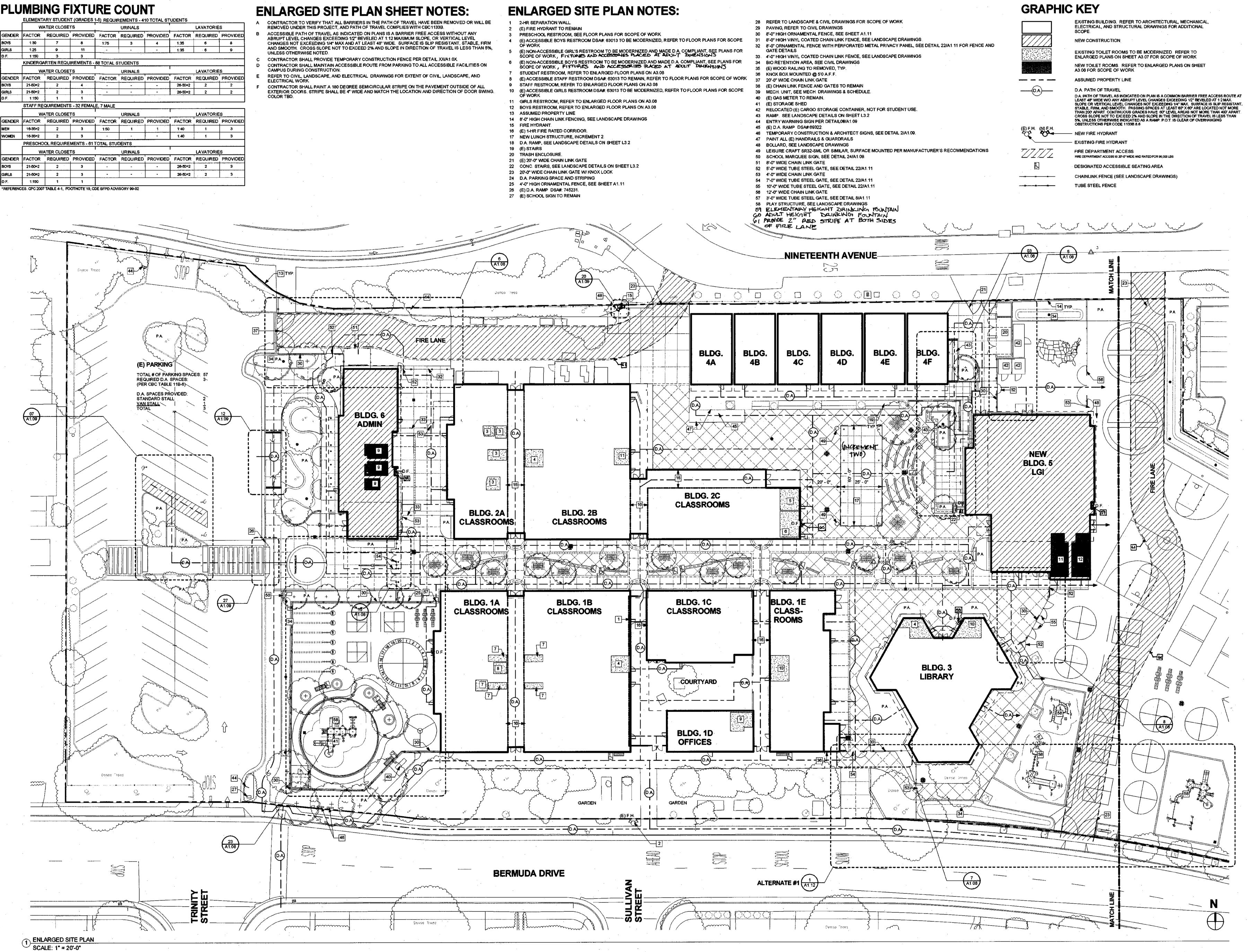
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OCCUPANCY = E (E) MILTINE BULDING D 7632 SF LOW ASSEMBLY / 15 TYPE = V B ACTUAL AREA = 4250 SF STAGE 940 SF STAGE / 15 ALLOWABLE AREA = 4250 SF KITCHEN 240 SF COMM. KITCH. / 200 ALLOWABLE AREA = 9500 SF SEE TABLE FOR EXITING ED CLASSROOM 931 SF CLASSROOM / 20 CLASSROOM - 931 SF CLASSROOM / 20 (E) CLASSROOM - 931 SF CLASSROOM / 20 (E) CLASSROOM - 1030 SF CLASSROOM / 20 (E) CLASSROOM - 1030 SF CLASSROOM / 20 (E) CLASSROOM - 1030 SF CLASSROOM / 20 (E) CLASSROOM - 931 SF CLASSROOM / 20 (E) CLASSROOM - 931 SF CLASSROOM / 20 (E) CLASSROOM - 931	-
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CLASSROOM - 931 SF CLASSROOM / 20 CLASSROOM - 1030 SF CLASSROOM / 20 (E) CLASSROOM - 931 SF CLASSROOM / 20 BUILDING G - 931 SF CLASSROOM / 20 CLASSROOM - 931 SF CLASSROOM / 20 PRIOR DSA APPL. NO. 61184 - CLASSROOM - 1030 SF CLASSROOM / 20 OCCUPANCY = E, S-1 TYP. CLASSROOM - 931 SF CLASSROOM / 20 -	
(E) CLASSROOM - 931 SF CLASSROOM / 20 BUILDING G - 931 SF CLASSROOM / 20 BUILDING G - 1030 SF CLASSROOM / 20 PRIOR DSA APPL. NO. 61184 - - 1030 SF CLASSROOM / 20 OCCUPANCY = E, S-1 - - 931 SF CLASSROOM / 20	0 = 47 0 = 52
BUILDING G CLASSROOM 1030 SF CLASSROOM / 20	
T OCCUPANCY = E, S-1 (E) CLASSROOM - 931 SF CLASSROOM / 20 =	0 = 52
	0 = 47
ACTUAL AREA = 4335 SF (E) CLASSROOM BULDING H ALLOWABLE AREA = 9500 SF TYP. CLASSROOM 931 SF CLASSROOM / 20 = 850URCF 630 SF OFFICE / 100 =	0 = 47 0 = 6.5
SEE TABLE FOR EXITING	0 = 47
(E) RELO AND PELO CLASSROOMS TYP. CLASSROOM 9	

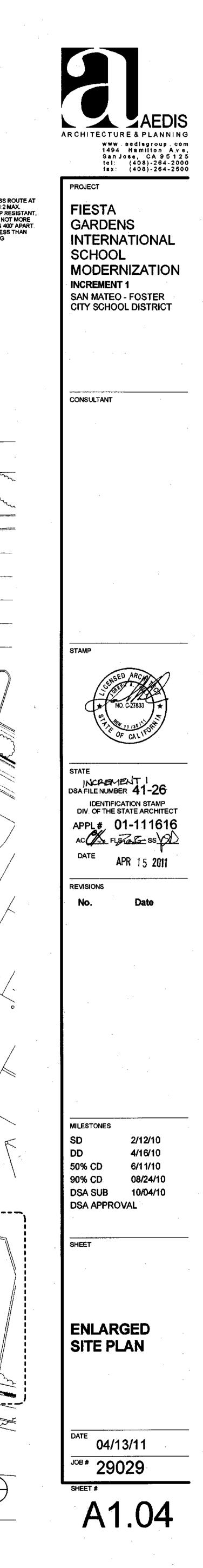


PLUMBING FIXTURE COUNT

	ELEMENTA	RY STUDEN	T (GRADES 1	-5) REQUIR	EMENTS - 4	10 TOTAL ST	UDENTS		
	WATER CLOSETS			URINALS			LAVATORIES		
GENDER	FACTOR	REQUIRED	PROVIDED	FACTOR	REQUIRED	PROVIDED	FACTOR	REQUIRED	PROVIDED
BOYS	1:30	7	8	1:75	3	4	1:35	6	8
GIRLS	1:25	9	11		-	-	1:35	· 6	9
D.F.	1:150	3	3						
	KINDERGA	RTEN REQU	REMENTS -	68 TOTAL S	TUDENTS				
	WA	TER CLOSE	TS I		URINALS	I			s
GENDER	FACTOR	REQUIRED	PROVIDED	FACTOR	REQUIRED	PROVIDED	FACTOR	REQUIRED	PROVIDED
BOYS	21-50=2	2	4 -	-	<u></u>	-	26-50=2	.2	2
GIRLS	21-50=2	2	3	•	•	-	2 6- 50=2	2	2
D.F.	1:150	1	1						
	STAFF RE	QUIREMENTS	5 - 32 FEMAL	E, 7 MALE					
	wA	TER CLOSE	TS		URINALS			LAVATORIE	S
GENDER	FACTOR	REQUIRED	PROVIDED	FACTOR	REQUIRED	PROVIDED	FACTOR	REQUIRED	PROVIDED
MEN	16-35=2	2	3	1:50	1	1	1:40	1	3
WOMEN	16-35=2	2	3	-	-	-	1:40	1	3
	PRESCHO	OL REQUIRE	MENTS - 61 1	OTAL STU	DENTS				
	WA	ATER CLOSE	TS		URINALS	I		LAVATORIE	S
GENDER	FACTOR	REQUIRED	PROVIDED	FACTOR	REQUIRED	PROVIDED	FACTOR	REQUIRED	PROVIDED
BOYS	21-50=2	2	3	-	-	-	26-50=2	2	3
GIRLS	21-50=2	2	3	-	- '	-	26-50=2	2	3
D.F.	1:150	1	1						-
*REFERENC	ES: CPC 2007	TABLE 4-1. FO	OTNOTE 19. CO	E SEPD ADVI	SORY 99-02				

- CAMPUS DURING CONSTRUCTION: ELECTRICAL WORK





ADSA

Buildings.

FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

Division of the State Architect (DSA) documents referenced within this publication are available on the DSA Forms or DSA Publications webpages. To facilitate the Division of the State Architect's (DSA) fire and life safety plan review of project site conditions, DSA requires the design professional to provide the following information at time of project submittal for projects consisting of construction of a new campus, construction of new building(s), additions to existing buildings, and for site alternate design means for fire department emergency vehicle access, and fire suppression water supply.

Information associated with compliance items 1 through 3 below is to be provided for all project types indicated above. Information associated with items 4 through 7 is to be completed when an alternate means is utilized. Acknowledgement by the school district and signature from the Local Fire Authority (LFA) is only required when an alternate design means is being requested.

810

The Project Information and Fire & Life Safety Information sections are to be completed for all projects and imaged onto the fire access site plan. When an alternate design/means is proposed, all sections on pages 1 and 2 are to be completed and imaged on the fire access site plan. For additional information refer to the instructions at the end of this form and DSA Policy PL 09-01: Fire Flow for

Scł	nool District/Owner: SAN MATEO - FOSTER CITY UNIFIED SCHOOL DIS	TRICT		
Pro	ject Name/School: GEORGE HALL ELEMENTARY SCHOOL			
Pro	ject Address: 130 SAN MIGUEL WAY, SAN MATEO, CA 94403			
FIR	E & LIFE SAFETY INFORMATION			
1.	Has a fire hydrant flow test been performed within the past 12 months? (If yes, provide a copy of the test data.)	Yes 🗹		No 🗖
2.	Was the fire hydrant water flow test performed as part of this LFA review?	Yes 🗖		No 🗹
3.	Is the project located within a designated fire hazard severity zone (FHSZ) as established by Cal-Fire? (<i>If yes, indicate FHSZ classification below.</i>)	Yes 🗖		No 🗹
	Refer to the following website for FHSZ locations: http://egis.fire.ca.gov/FHSZ/	Moderate	High 🗖	Very High 🗖
	Wildland Interface Area (WIFA) (If any designations are checked, project requirements of CBC Chapter 7A.)	design must m	eet the	WIFA 🗖

DEPARTMENT OF GENERAL SERVICES STATE OF CALIFORNIA

FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

DGS DSA 810 (revised 12/29/20)

DIVISION OF THE STATE ARCHITECT

CON	IDITION MEANS AND METHODS RESOLUTION	ALTE	RNATE	ACCEPTI	ED
4.	Emergency vehicle access roadways do not meet CFC requirements.	Yes	No	N/A	N/R
4a.	Acceptable Alternate: Emergency vehicle and personnel access as proposed by the project architect is acceptable for providing fire suppression and protection of life and property.				
5.	Fire Hydrants: Number and spacing does not meet CFC requirements.				
5a.	Acceptable Alternate: Number of fire hydrants and spacing as proposed by the project architect is acceptable for fire suppression and protection of life and property.				
6.	Fire Hydrants: Water flow and pressure are less than CFC minimum.				
6a.	Acceptable Alternate: The available flow and pressure is acceptable for providing fire suppression and protection of life and property.				
7.	Location of fire department connection(s) serving fire sprinkler systems or standpipe systems does not meet CFC requirements.				
7a.	Acceptable Alternate: The location of fire department connection serving the fire sprinkler system and/or standpipe system is acceptable for providing fire suppression and protection of life and property.			1	

School District Acceptance of Acceptable Design Alternates By signing this form, the school district acknowledges and accepts the proposed design as an alternative to California Building Code (CBC) and California Fire Code (CFC) minimum requirements, as indicated by one or more of the conditions indicated at items 4a, 5a, 6a or 7a, for providing fire and life safety protection of life and property.

Accepted by:	Title:
Signature:	Date:
LOCAL FIRE AUTHORITY (LFA) INFORMAT	ΓΙΟΝ
LFA Review Official:	
Title:	Work Phone:
Work Email:	
-	

DGS DSA 810 (revised 12/29/20)

Section BB105 Fire-Flow Requirements for Buildings 26

BB105.1

LFA Reviewer's Signature:

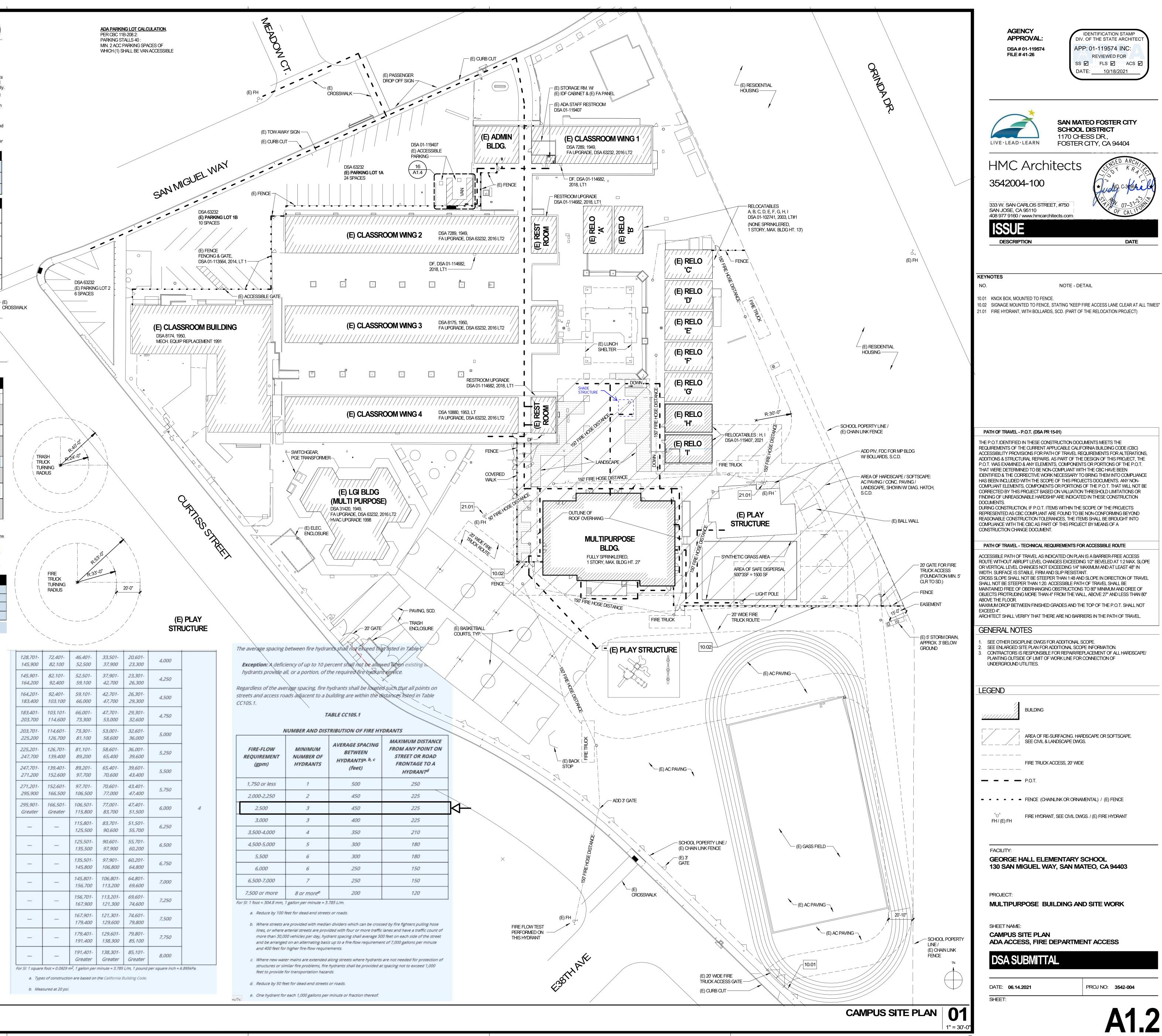
The minimum fire flow and flow duration for school buildings shall be as specified in Table BB105.1.

Exception: A reduction in required fire flow of up to 75 percent is allowed when the building is provided with an approved automatic sprinkler system. When a reduction in fire flow is used, fire flow shall not be less than 1500 GPM.

TABLE BB105.1

MINIMUM REQUIRED FIRE-FLOW AND FLOW DURATION FOR BUILDINGS

CLOW/	FIRE FLOW		feet)	FIRE AI		
FLOW DURATION (hours)	FIRE-FLOW (gallons per minute)b	Type V- B a	<i>Type IIB</i> and IIIB a	Type IV and V-A a	<i>Type IIA and IIIA a</i>	Type IA and IB a
	1,500	0-3,600	0-5,900	0-8,200	0-12,700	0-22,700
	1,750	3,601- 4,800	5,901- 7,900	8,201- 10,900	12,701- 17,000	22,701- 30,200
	2,000	4,801- 6,200	7,901- 9,800	10,901- 12,900	17,001- 21,800	30,201- 38,700
2	2,250	6,201- 7,700	9,801- 12,600	12,901- 17,400	21,801- 24,200	38,701- 48,300
	2,500	7,701- 9,400	12,601- 15,400	17,401- 21,300	24,201- 33,200	48,301- 59,000
	2,750	9,401- 11,300	15,401- 18,400	21,301- 25,500	33,201- 39,700	59,001- 70,900
	3,000	11,301- 13,400	18,401- 21,800	25,501- 30,100	39,701- 47,100	70,901- 83,700
	3,250	13,401- 15,600	21,801- 25,900	30,101- 35,200	47,101- 54,900	83,701- 97,700
3	3,500	15,601- 18,000	25,901- 29,300	35,201- 40,600	54,901- 63,400	97,701- 112,700
	3,750	18,001- 20,600	29,301- 33,500	40,601- 46,400	63,401- 72,400	112,701- 128,700



128,701-	72,401-	46,401-	33,501-	20,601
145,900	82,100	52,500	37,900	23,300
145,901-	82,101-	52,501-	37,901-	23,301
164,200	92,400	59,100	42,700	26,300
164,201-	92,401-	59,101-	42,701-	26,301
183,400	103,100	66,000	47,700	29,300
183,401-	103,101-	66,001-	47,701-	29,301
203,700	114,600	73,300	53,000	32,600
203,701-	114,601-	73,301-	53,001-	32,601
225,200	126,700	81,100	58,600	36,000
225,201-	126,701-	81,101-	58,601-	36,001
247,700	139,400	89,200	65,400	39,600
247,701-	139,401-	89,201-	65,401-	39,601
271,200	152,600	97,700	70,600	43,400
271,201-	152,601-	97,701-	70,601-	43,401
295,900	166,500	106,500	77,000	47,400
295,901-	166,501-	106,501-	77,001-	47,401
Greater	Greater	115,800	83,700	51,500
-		115,801-	83,701-	51,501
		125,500	90,600	55,700
		125,501-	90,601-	55,701
		135,500	97,900	60,200
		135,501-	97,901-	60,201
		145,800	106,800	64,800
		145,801-	106,801-	64,801
		156,700	113,200	69,600
-		156,701-	113,201-	69,601
		167,900	121,300	74,600
		167,901-	121,301-	74,601
_	_	179,400	129,600	79,800
		179,401-	129,601-	79,801
	_	191,400	138,300	85,100
		191,401-	138,301-	85,101
-	_	Greater	Greater	Greate

PLEASE RECYCLE



PROJ NO: 3542-004

DSA SUBMITTAL

ADA ACCESS, FIRE DEPARTMENT ACCESS

MULTIPURPOSE BUILDING AND SITE WORK

GEORGE HALL ELEMENTARY SCHOOL 130 SAN MIGUEL WAY, SAN MATEO, CA 94403

FIRE HYDRANT, SEE CIVIL DWGS. / (E) FIRE HYDRANT

• • • • • FENCE (CHAINLINK OR ORNAMENTAL) / (E) FENCE

FIRE TRUCK ACCESS, 20' WIDE

AREA OF RE-SURFACING. HARDSCAPE OR SOFTSCAPE SEE CIVIL & LANDSCAPE DWGS.

BUILDING

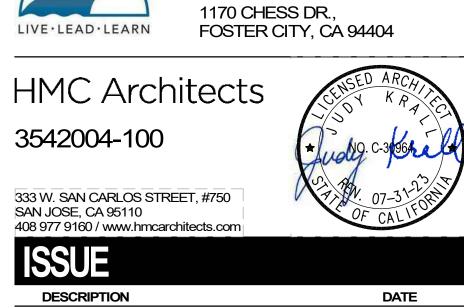
SEE OTHER DISCIPLINE DWGS FOR ADDITIONAL SCOPE. SEE ENLARGED SITE PLAN FOR ADDITIONAL SCOPE INFORMATION. CONTRACTORS IS RESPONSIBLE FOR REPAIR/REPLACEMENT OF ALL HARDSCAPE/ PLANTING OUTSIDE OF LIMIT OF WORK LINE FOR CONNECTION OF

SHALL NOT BE STEEPER THAN 1:20. ACCESSIBLE PATH OF TRAVEL SHALL BE MAINTAINED FREE OF OBERHANGING OBSTRUCTIONS TO 80" MINIMUM AND DREE OF OBJECTS PROTRUDING MORE THAN 4" FROM THE WALL, ABOVE 27" AND LESS THAN 80" MAXIMUM DROP BETWEEN FINISHED GRADES AND THE TOP OF THE P.O.T. SHALL NOT ARCHITECT SHALL VERIFY THAT THERE ARE NO BARRIERS IN THE PATH OF TRAVEL.

HAS BEEN INCLUDED WITH THE SCOPE OF THIS PROJECTS DOCUMENTS. ANY NON-COMPLIANT ELEMENTS, COMPONENTS OR PORTIONS OF THE P.O.T. THAT WILL NOT BE CORRECTED BY THIS PROJECT BASED ON VALUATION THRESHOLD LIMITATIONS OR FINDING OF UNREASONABLE HARDSHIP ARE INDICATED IN THESE CONSTRUCTION DURING CONSTRUCTION, IF P.O.T. ITEMS WITHIN THE SCOPE OF THE PROJECTS REPRESENTED AS CBC COMPLIANT ARE FOUND TO BE NON-CONFORMING BEYOND REASONABLE CONSTRUCTION TOLERANCES, THE ITEMS SHALL BE BROUGHT INTO COMPLIANCE WITH THE CBC AS PART OF THIS PROJECT BY MEANS OF A PATH OF TRAVEL - TECHNICAL REQUIREMENTS FOR ACCESSIBLE ROUTE ACCESSIBLE PATH OF TRAVEL AS INDICATED ON PLAN IS A BARRIER-FREE ACCESS ROUTE WITHOUT ABRUPT LEVEL CHANGES EXCEEDING 1/2" BEVELED AT 1:2 MAX. SLOPE OR VERTICAL LEVEL CHANGES NOT EXCEEDING 1/4" MAXIMUM AND AT LEAST 48" IN WIDTH. SURFACE IS STABLE, FIRM AND SLIP RESISTANT. CROSS SLOPE SHALL NOT BE STEEPER THAN 1:48 AND SLOPE IN DIRECTION OF TRAVEL

THE P.O.T. IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS MEETS THE REQUIREMENTS OF THE CURRENT APPLICABLE CALIFORNIA BUILDING CODE (CBC) ACCESSIBILITY PROVISIONS FOR PATH OF TRAVEL REQUIREMENTS FOR ALTERATIONS, ADDITIONS & STRUCTURAL REPAIRS. AS PART OF THE DESIGN OF THIS PROJECT, THE P.O.T. WAS EXAMINED & ANY ELEMENTS, COMPONENTS OR PORTIONS OF THE P.O.T. THAT WERE DETERMINED TO BE NON-COMPLIANT WITH THE CBC HAVE BEEN IDENTIFIED & THE CORRECTIVE WORK NECESSARY TO BRING THEM INTO COMPLIANCE

NOTE - DETAIL



SAN MATEO FOSTER CITY





