



Ventura County Community College District

PURCHASING DEPARTMENT

DATE: June 12th, 2023
TO: All Bidders
FROM: David Cienfuegos, Purchasing Specialist
SUBJECT: Addendum 2 – Bid 650, Moorpark College Sand Volleyball Project

This addendum is hereby made part of the Contract Documents to the same extent as though it was originally included therein and takes precedence over the original documents. The outdated pages must be replaced with any updated and/or changed pages when submitting your bid. Acknowledge receipt of all addenda on the Bid Form.

The bid opening remains on **Thursday, June 15th, 2023**. Bids must be received no later than **3:00 p.m.** at 761 E Daily Drive, Suite 200, Camarillo, CA 93010. Properly mark the outside of the exterior envelope on your submitted bid with the Bid Number and Name according to the requirements stated in the bid packet directions.

If you choose not to participate in this particular bid, please sign the Bid Proposal stating “no bid” and email or fax it back to me at 805-652-7700.

It is the responsibility of the Bidder to verify that their proposal has been received by the VCCCD Purchasing Department prior to the opening date. Verification of receipt can be made through the listed Purchasing Specialist.

Attached to this addendum please find updated technical specification drawings.

The following information is in answer to questions that were asked at the job walk and via email request. The deadline for questions was Tuesday, June 6th, 2023. No further questions will be accepted.

1. Please confirm the quantity and location of the existing pine trees that should be removed as part of this contract.

Response: Refer to revised sheet C2-02 Demolition Plan.

2. Please confirm that the scope of work for the north side stairs and handrails, as shown on C1-00, will change following the discussions of the pre-bid meeting.

Response: Refer to revised sheet C3-01 Surfacing Plan. Scope for north side stairs and handrails include: removal of existing concrete stairs, concrete pavement, and curb to limits shown. New concrete curb, sidewalk, stairs and handrails. New stairs to be 7' in width maximum between rails.

3. Please confirm that the light poles demo, as shown on 2/C2-02, will include the removal of the concrete base in its entirety (not only below the subgrade).



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Response: Refer to revised sheet C2-02 Demolition Plan for light poles to be entirely removed (including concrete base) and poles that will be partially removed.

4. Please clarify the CL fence scope of work. Should we remove and replace both the chain link fence and windscreen at all the perimeter fence (No modifications to the existing posts)?

Response: Refer to revised sheet C3-01 Surfacing Plan for clarified chain link fence scope.

5. Please advise if the volleyball court sand is owner-furnished and contractor installed. If we have to furnish the sand, please provide the contact information for the local distributor, as discussed during the pre-bid meeting.

Response: Volleyball court sand is not owner furnished and is a part of this bid.

6. Please clarify the new work/scope on detail 10/C3-02 for the maintenance CL fence gate.

Response: Refer to revised detail 10 on sheet C3-02 Surfacing Details. Modifications to gate include added signage in detail as shown per DSA requirements.

7. Please advise if any new parking signage should be installed per 10/C3-03.

Response: Detail shown is for DSA reference only, signage is existing and compliant.

8. Please advise if any new work is required in the parking lot per 11/C3-03.

Response: Detail shown is for DSA reference only, parking lot is existing and compliant.

9. Please advise if new irrigation lines should be installed per L8-01 & L8-02.

Response: Irrigation lines shown on sheets L8-01 and L8-02 are to be installed per plan.

10. Please clarify the trench path for the electrical feeder to the gym. Also, advise the finish surface that must be repaired for trenches. Please provide details on how to enter the electrical room inside the gym.

Response: On E200 detail 2 key note above Panel TGA shows the new pull box at the intercept point as noted by keynote 4 on E300, no asphalt paving is to be removed. This intercept point is near to the new Panel TGA location. Trench finish shall be per details 3/E300 and 5/E600, all fill shall be concrete/sand slurry with tracer/warning tape above.

11. Please clarify the trench path for the communication connection to the gym. Also, advise the finish surface that must be repaired for trenches.

Response: See E130 for note with arrow pointing to pull box that states "existing pull box for com from gym" and it is shown north west of the entry to the Sand Volleyball project area in the adjacent parking lot. On E300, the new work com feeder key note 12 is shown from the project's new IDF location on the new equipment pad to the north west to the existing com pull box which connects via existing conduit to the gym MDF located in the lower level of the gym. Key note 12 states the type of fiber which will run from the new



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project IDF to the GYM. Contractor shall terminate the fiber on both ends, provide RDCC test reports for the fiber acceptance per BICSI standards, and all IDF equipment as noted in key note 12 of E300. Trench finish shall be per details 3/E300 and 5/E600, all fill shall be concrete/sand slurry with tracer/warning tape above.

12. Please share the soil's report for the light foundations.

Response: Refer to the provided soils reports for the proposed light poles.

<https://lloydengineers.egnyte.com/dl/yTkp248Ms7>

13. The plans say the (6) Musco Pole lights and control panel is provided by others. Please confirm the Musco lights are owner-furnished and contractor installed.

Response: The Musco Poles, lights, and panels are shown on the contract documents and clearly define what is being provided by them for the contractor to install. Poles, lights, and panels will be provided by Musco for contractor's installation per Musco standards and documentation.

14. Please advise if the contractor should install any devices for the communication scope.

Response: Contractor shall install all equipment as noted on the contract documents including but not limited to equipment noted in key note 12 of E300 including IDF rack, 24 port switch (fiber to copper), power supply and surge protection, power to fan, all terminations of fiber at CAT5/6 cable as noted. Contractor to install (mount and terminate) all pole mounted cameras, cameras shall be provided to the contractor by the college district.

15. Please provide the project duration.

Response: Project duration is 153 days.

16. Please provide an engineer's estimate for this project.

Response: Refer to the provided engineer's estimate for the project.

17. Please see Sheet C6-01, note # 5; A mitered end section is called out to be installed; however, the plan indicates that the end section is not to be installed at the end of the pipe. Also, there is no detail for the end section.

a. Please provide detail for the end section.

Response: See included cut sheet and revised specification section 33 40 00 2.11

b. If a clean-out is to be installed at the end of the perforated piping, where is the end section to be installed?

Response: Mitered end section locations are only on sidewalk culvert pipe. See keynote 5, structures MES-1 and MES-2 at sidewalk.



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18. Sheet note E300 - keynote 12 : "IDF shall be provided with 24 port switch, fan, power distribution, ground bus". Is the switch contractor provided or owner provided? If contractor provided, can the District IT provide a manufacturer and model #?

Response: See E401 notes at IDF location. Contractor to provide all equipment and terminations, College District will provide 24 port switch for contractor installation only, all other work and material shall be by contractor.

19. Is there an anticipated start date for the project?

Response: The date specified in the Notice to proceed. Moorpark College's desire is to take this to the July Board, and issue the NTP ASAP afterward.

20. The plans call for min 12" and max 18" sand (detail 1 sheet C3-02). So contractors can bid equally, what uniform sand depth should we bid for?

Response: Refer to plans and calculate sand volume accordingly. Per the plan sheets and Sections 1 and 2 on sheet C5-03 Grading Sections, sand depth at areas outside of playing area is 12". Depth of sand in playing area is 18".

21. Sheet C2-02 shows 3 trees to be removed, but during the job walk there was discussion of a 4th tree to be removed. Can you please confirm?

Response: Refer to revised sheet C2-02 Demolition Plan.

22. Sheet C2-02 Demo Note #1 refers to the existing courts as concrete, but during the job walk discussions they were referred to as and appeared to be asphalt? Can you please confirm?

Response: The existing court section consist of asphalt over concrete pavement

23. What should contractors assume is the thickness of the existing asphalt courts to be removed?

Response: Total thickness of existing court pavement is approximately 8", 4" of asphalt over 4" of concrete base.

24. Can you confirm if the wall and railings/screen on the west side of the courts is to remain as is?

Response: On the northwest wall of the courts, the netting and metal railing at top of wall to be removed. Wall to remain in place.

25. Can you confirm if the irrigation scope on sheets L8-01 is staying within this contract because there was mention at the job walk irrigation work would be completed by the district?

Response: Landscape irrigation modifications on adjacent areas outside the project area where trees are to be removed is not part of scope. Irrigation connections and in the court areas is part of this scope.



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26. Is prequalification required for this project? Is there a deadline for prequal?

Response: Yes prequalification is required. The only prequalification's are CUPCCAA and DIR. Prequalification is required at bid opening.

27. Please clarify who is providing and installing the 6 Musco fixtures and 2 control cabinets. Sheet E300 mentions Musco Pole lighting and control panels provided by others, but 'Sports Lighting' is shown as a line item on the bid form.

Response: The general contractor is responsible for installing dividing any scope between their subcontractors.

28. Please provide the estimated Notice to Proceed date.

Response: Please see response to question 19.

29. There are currently irrigation plans, will planting be required for this project? If so will the planting be part of the contractors scope of work or will it be by others?

Response: Irrigation scope is for the courts for watering down the sand courts.

30. Sheet note E300 - keynote 12 : "IDF shall be provided with 24 port switch, fan, power distribution, ground bus". Is the switch contractor provided or owner provided? If contractor provided, can the District IT provide a manufacturer and model #?

Response: The contractor is responsible for providing the electrical items required for the scope of work. Contractor may coordinate directly with Moorpark College for any requests regarding equipment manufacturer and model numbers.

31. Will this project have liquidated damages? If so, please provide us with a cost for the liquidated damages and when they LDs will be incurred.

Response: Please refer to Specification Section 00800 par 1.02

32. Is there a construction performance period or duration in which the work is scheduled to be completed?

Response: See response to question 15.

33. Please confirm that the Panasonic cameras shown on the Musco light poles on sheet MS1 will be supplied and installed by others?

Response: Panasonic cameras show on Musco light poles are included in the contractor's scope of work.

34. Will the equipment mounting racks listed on sheet E600 be part of the contractors scope of work or will they be supplied by others?

Response: This is included in the contractor's scope of work.



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Questions and Answers at Jobwalk

Q. Is this an emergency project?

A. No, this is not an emergency project.

Q. Who is the architect for this project?

A. Lloyd Engineering.

Q. What is the engineering estimate for this project?

A. 1.4 million dollars.

Q. Is there a soils report?

A. A soils report is available for the lighting.

Q. What is the project duration?

A. 154 calendar days after award date.

Q. What is the slope of the sidewalk leading into the corner entrance of the courts?

A. The sidewalk leading into the corner entrance of the courts is to be a maximum of 5% incline.

Q. Are the trees labeled for removal to be removed to the stump or be uprooted?

A. Trees are to be removed to the stump.

Q. What is the thickness of the asphalt in the complex?

A. Thickness of total pavement at court is confirmed to be 8-inches total.

Q. Are the flood lights to be removed?

A. Refer to C2-02 Demolition Plan

Q. Will electrical be shutdown prior to the start of the project?

A. Coordinate and refer to Moorpark College staff for all shutdowns.

Q. Are both the chain-link and fencing fabric to be removed and replaced?

A. Refer to updated sheet C3-01 Surfacing Plan.



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Q. Any landscaping requirements?

A. No.

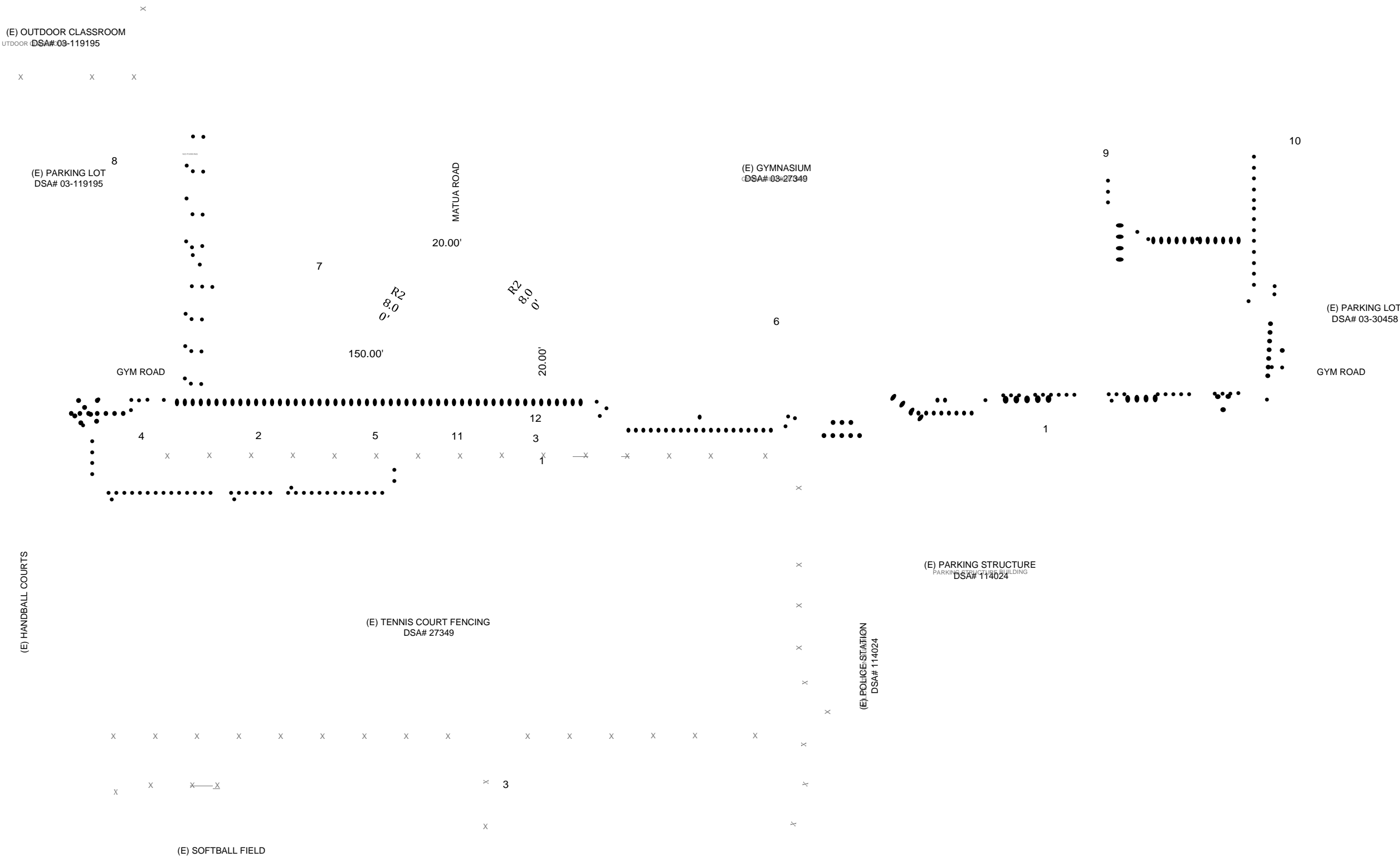
Q. Who is responsible for exporting materials off site?

A. Awarded contractor is to be responsible for the exporting of materials.

End of Section

(E) PARKING LOT CALCULATION - DSA# 03-119195	
REGULAR	49
ACCESSIBLE	5
TOTAL	54

SEE SHEET G-01 FOR CONTINUATION



7349 N. VIA PASEO DEL SUR
SUITE 515-324
SCOTTSDALE, ARIZONA 85258
PH 602.635.4226

CONSTRUCTION DOCUMENTS

GENERAL NOTES:

- CONTRACTOR TO VERIFY THAT ALL BARRIERS IN THE PATH OF TRAVEL HAVE BEEN REMOVED OR WILL BE REMOVED UNDER THIS PROJECT AND PATH OF TRAVEL COMPLIES WITH CBC 11B-206.
- CONTRACTOR SHALL MAINTAIN FIRE LANE ACCESS THROUGHOUT PROJECT.
- DO NOT INTERRUPT EXISTING UTILITY SERVICES SERVING OCCUPIED OR USED FACILITIES, EXCEPT WHEN AUTHORIZED IN WRITING BY AND COORDINATED WITH OWNER.
- PROTECT EXISTING & NEW STRUCTURES, UTILITIES, SIDEWALKS, PAVEMENTS, TREES AND SHRUBS FROM DAMAGE DURING CONSTRUCTION.
- REFER TO CIVIL AND ELECTRICAL DRAWINGS FOR EXTENT OF CIVIL AND ELECTRICAL WORK.
- ACCESSIBLE PATH OF TRAVEL (P.O.T.) 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. ACCESSIBLE 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" AND LESS THAN 80". ARCHITECT SHALL VERIFY THAT THERE ARE NO BARRIERS IN THE ROUTE OF TRAVEL.

- DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE STATEMENT: THE P.O.T. IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS IS COMPLIANT WITH THE CURRENT APPLICABLE CALIFORNIA BUILDING CODE (CBC) ACCESSIBILITY PROVISIONS FOR PATH OF TRAVEL REQUIREMENTS FOR ALTERATIONS AND STRUCTURAL REPAIRS. AS PART OF THE DESIGN OF THIS PROJECT, THE P.O.T. WAS EXAMINED AND ANY ELEMENTS, COMPONENTS OR PORTIONS OF THE P.O.T. THAT WERE DETERMINED TO BE NON-COMPLIANT (A) HAVE BEEN IDENTIFIED, AND (B) THE CORRECTIVE WORK NECESSARY TO BRING THEM INTO COMPLIANCE HAS BEEN INCLUDED WITHIN THE SCOPE OF THIS

KEY NOTES:

- (E) PUBLIC BUS STOP
- (E) 8' WIDE MAINTENANCE GATE, PER DETAIL 10 ON SHEET C3-02.
- (E) 4' WIDE MAINTENANCE GATE, PER DETAIL 10 ON SHEET C3-02.
- 3' WIDE MAINTENANCE AND 4' WIDE ACCESSIBLE PEDESTRIAN GATE, PER DETAIL 9 ON SHEET C3-02.
- ACCESSIBLE DRINKING FOUNTAIN / BOTTLE FILLER PER DETAIL 1 ON SHEET C3-03.
- (E) FIRE HYDRANT
- (E) SITE ACCESSIBLE/TOW-AWAY SIGNAGE FOR PARKING LOT, SEE DETAIL 10 ON SHEET C3-03.
- (E) ACCESSIBLE PARKING AND SIGNAGE PER DSA APPLICATION # 03-119195, SEE ENLARGEMENT DETAIL 11 ON SHEET C3-03.
- (E) ACCESSIBLE PUBLIC RESTROOM
- (E) CAMPUS PATH OF TRAVEL
- SAND WASH STATION, PER DETAIL 11 ON SHEET C3-02 AND UTILITY PLAN ON SHEET C7-01.
- CONCRETE STAIR PER DETAIL 1 ON SHEET C1-00.

LEGEND

- ACCESSIBLE ROUTE
- LIMIT OF CONSTRUCTION
- CHAIN LINK FENCE
- CONCRETE CURB
- CONCRETE SIDEWALK
- BUILDING
- SPORTS LIGHT POLE
- EXISTING FIRE HYDRANT
- KEYNOTE CALLOUT SYMBOL
- FIRE DEPARTMENT ACCESS

20' WID E

REV.		
ADDENDUM 1	6/9/23	

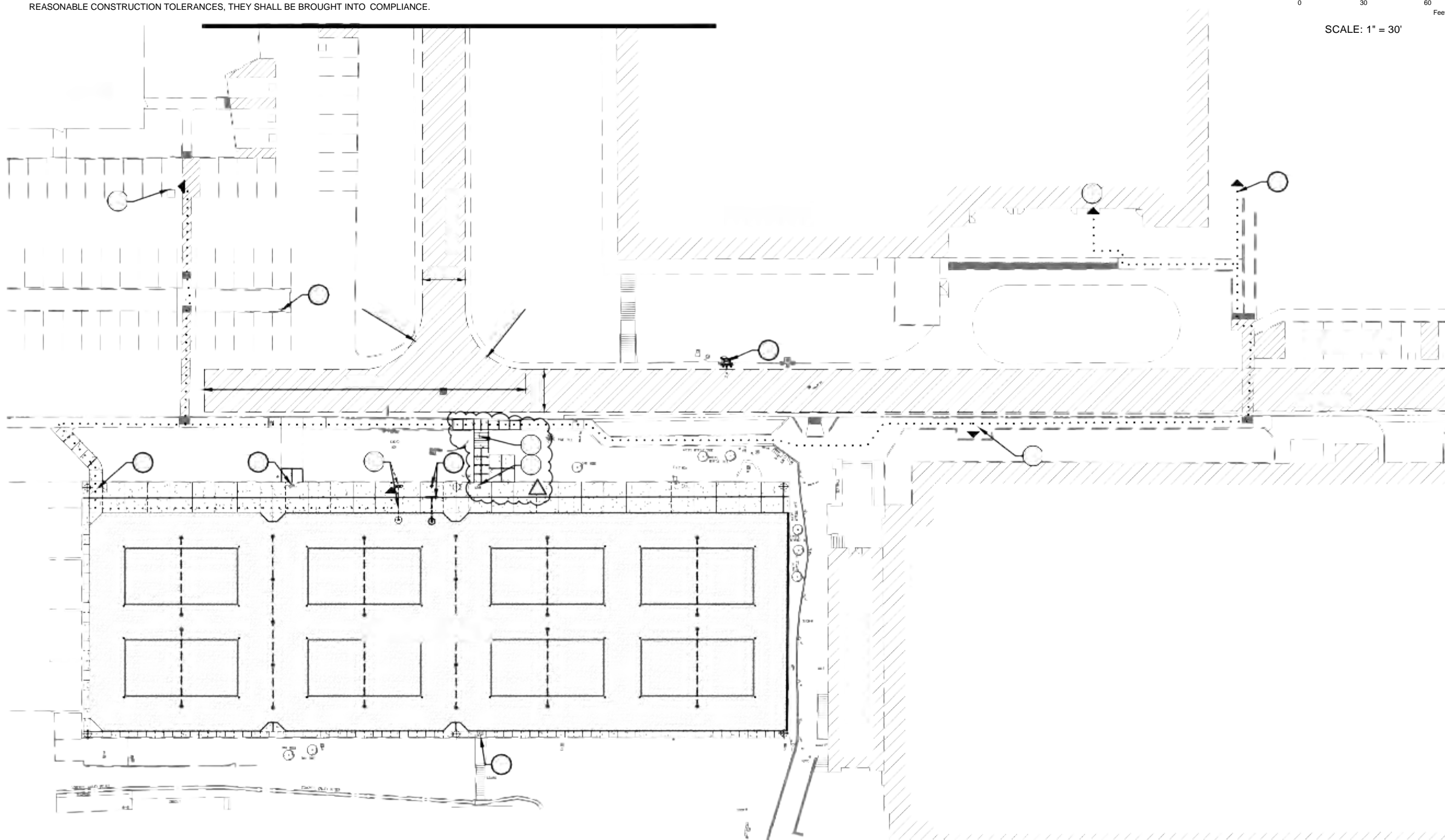
MOORPARK COLLEGE BEACH VOLLEYBALL COURTS

MOORPARK, CA

DESIGNED:	BL
DATE:	APR 4, 2023
DRAWN:	TML

PROJ.	21-152
SCALE:	1" = 30'

PROJECT'S WORK THROUGH DETAILS, DRAWINGS AND SPECIFICATIONS INCORPORATED INTO THESE CONSTRUCTION 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 A FINDING OF UNREASONABLE HARDSHIP ARE SO INDICATED IN THESE CONSTRUCTION DOCUMENTS. DURING CONSTRUCTION, IF P.O.T. ITEMS WITHIN THE SCOPE OF THE PROJECT REPRESENTED AS CODE COMPLIANT ARE FOUND TO BE NON-COMFORMING BEYOND REASONABLE CONSTRUCTION TOLERANCES, THEY SHALL BE BROUGHT INTO COMPLIANCE.



ADSA

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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 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.

The Project Information and Fire & Life Safety Information sections are to be completed for all projects and imaged on 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 00-01: Fire Flow for Buildings.

PROJECT INFORMATION	
School District/Owner:	Moorpark College
Project Name/School:	Moorpark College Beach Volley Ball Courts
Project Address:	7000 Campus Road, Yocum, CA 92081

FIRE & LIFE SAFETY INFORMATION	
1. Has a fire hydrant flow test been performed within the past 12 months? <i>(If yes, provide a copy of this test data.)</i>	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
2. Was the fire hydrant water flow test performed as part of this LFA review?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
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 <input type="checkbox"/> No <input checked="" type="checkbox"/>
Refer to the following website for FHSZ locations: http://maps.fire.ca.gov/FHSZ/	Moderate <input type="checkbox"/> High <input type="checkbox"/> Very High <input type="checkbox"/>
Wildland Interface Area (WIFA) <i>(If any designations are checked, project design must meet the requirements of CBC Chapter 7A.)</i>	WIFA <input type="checkbox"/>

ADSA 810 FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

CONDITION MEANS AND METHODS RESOLUTION		ALTERNATE ACCEPTED			
		Yes	No	N/A	N/R
4.	Emergency vehicle access roadways do not meet CBC requirements.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5a.	Acceptable Alternate: Emergency vehicle and person access as proposed by the project architect is acceptable for providing fire suppression and protection of life and property.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5.	Fire Hydrants: Number and spacing does not meet CBC requirements.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5b.	Acceptable Alternate: Number of fire hydrants and spacing as proposed by the project architect is acceptable for the suppression and protection of life and property.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6.	Fire Hydrants: Water flow and pressure are less than CBC minimum.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6a.	Acceptable Alternate: The available flow and pressure is acceptable for providing fire suppression and protection of life and property.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7.	Location of the department connection(s) serving the sprinkler systems or standpipe systems does not meet CBC requirements.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7a.	Acceptable Alternate: The location of the department connection serving the fire sprinkler system and/or standpipe system is acceptable for providing fire suppression and protection of life and property.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

School District Acceptance of Acceptable Design Alternates
By signing this form, the school district acknowledges and accepts the proposed design as an alternate 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.

Approved by: _____ Title: _____
Signature: _____ Date: _____

LOCAL FIRE AUTHORITY (LFA) INFORMATION	
LFA Agency Name:	
LFA Review Official:	
Title:	Work Phone:
Work Email:	
LFA Reviewer's Signature:	Date:

plan document set is the sole property of Lloyd Consulting Group, LLC. No alterations to these plans, or than adding "as-built" information, are allowed by anyone other than authorized Lloyd Consulting Group, LLC employees.

DEMOLITION NOTES

1. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BID SUBMITTAL IN ORDER TO DETERMINE THE EXTENT AND CONDITIONS OF SITE DEMOLITION AND TO FIELD VERIFY SITE CONDITIONS. THE CONTRACTOR SHALL NOTIFY THE OWNER OF ANY DISCREPANCIES PRIOR TO BID.
2. THE CONTRACTOR SHALL PERFORM ALL CLEARING, DEMOLITION AND REMOVAL SITE PREPARATIONS NECESSARY FOR THE EXECUTION OF THE WORK CONTAINED IN THE CONTRACT DOCUMENTS.
3. EXISTING STORM DRAIN FACILITIES WITHIN THE LIMITS OF CONSTRUCTION SHALL BE PROTECTED FROM CONSTRUCTION DEBRIS INTRUSION. THE CONTRACTOR SHALL FLUSH AND CLEAN EXISTING DRAINAGE SYSTEMS THAT ARE TO BE PROTECTED IN PLACE, WITHIN THE PROJECT LIMITS, TO THE POINT OF DISCHARGE. ALL CLEANING OF SITE AND DRAINAGE SYSTEMS SHALL MEET ALL CALIFORNIA SAFETY AND WATER QUALITY REQUIREMENTS SET BY THE STATE BOARD OF WATER RESOURCES.
4. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL UTILITIES, STRUCTURES, AND SERVICES BEFORE COMMENCING WORK. CONTRACTOR IS RESPONSIBLE FOR POT-HOLING AND UTILITY SURVEYS AS NECESSARY TO LOCATE EXISTING UTILITIES.
5. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY BMP's AND PROTECTIONS TO DRAINS AND DRAINAGE SYSTEMS AS REQUIRED BY THE PROJECT SWPPP DOCUMENTS AND CALIFORNIA STATE WATER RESOURCES CONTROL BOARD PRIOR TO COMMENCING DEMOLITION.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING OR REPLACING ANY EXISTING ITEMS DAMAGED OR DESTROYED BY CONSTRUCTION NOT IDENTIFIED FOR DEMOLITION OR REMOVAL. REPLACEMENT OR REPAIRS SHALL BE AT THE CONTRACTOR'S EXPENSE AND ITEM RESTORED TO EQUAL OR BETTER CONDITION.
7. THE CONTRACTOR SHALL PROVIDE NECESSARY MEASURES TO CONTROL DUST AND SEDIMENT PER THE SWPPP DOCUMENTS AND AS REQUIRED BY THE STATE.
8. CONTRACTOR MUST REMOVE AND DISPOSE OF ALL WEEDS, AND LOOSE MATERIALS.
9. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING IRRIGATION WATER SERVICE AND AUTOMATIC CONTROL WIRE CONNECTIONS TO EXISTING LANDSCAPE MATERIAL TO REMAIN AND TO ADJACENT FIELDS BOTH DURING AND AFTER CONSTRUCTION.
10. THE CONTRACTOR MUST PROTECT IN PLACE ALL EXISTING UTILITIES.
11. THE CONTRACTOR IS RESPONSIBLE FOR REPAIR OR REPLACEMENT OF UTILITIES DAMAGED DURING CONSTRUCTION.
12. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION REGARDING DEMOLITION.
13. CONTRACTOR SHALL NOTIFY USA 800-227-2600 PRIOR TO ANY DEMOLITION OR EXCAVATION.
14. SPRINKLER HEADS AND VALVES REMOVED DURING DEMOLITION ARE TO BE SALVAGED AND RETURNED TO OWNER. ANY EQUIPMENT DEEMED UNSALVAGEABLE BY THE OWNER MUST BE DISPOSED OF BY THE CONTRACTOR. DO NOT RE-INSTALL OR RELOCATED ANY EXISTING SPRINKLER HEADS, VALVES, REMOTE CONTROL VALVES, WIRE OR ANY PIPE FROM DESIGNATED DEMOLITION AREAS.

SURFACING NOTES:

1. THE CONTRACTOR SHALL VERIFY CRITICAL DIMENSIONS, REFERENCE POINTS AND BENCHMARKS AND NOTIFY THE OWNER PRIOR TO PLACEMENT OF CONCRETE AND PERMANENT ITEMS.
2. THE CONTRACTOR SHALL COORDINATE ALL CONSTRUCTED ELEMENTS INCLUDING UTILITY LOCATIONS AND REQUIRED SLEEVING PRIOR TO INSTALLATION OF SURFACING MATERIALS.
3. TRANSITIONS IN BETWEEN PROPOSED IMPROVEMENTS TO THE EXISTING SITE SHALL CONFORM AND BE SMOOTH AND UNIFORM.
4. CONCRETE FINISHES SHALL BE AS NOTED AND SPECIFIED. THE CONTRACTOR SHALL PROVIDE MOCKUPS OF ALL FINISHES OF CONCRETE PER THE SPECIFICATIONS. REFER TO SURFACING PLANS AND DETAILS FOR JOINT SPACING.
5. THE CONTRACTOR SHALL PROVIDE A SHOP DRAWING OF THE CONCRETE JOINTS FOR REVIEW PRIOR TO PREPARATION OF MOCKUP OR INSTALLING CONCRETE PAVING.
6. CONTRACTOR SHALL VERIFY THAT FENCE POST LOCATIONS PRIOR TO INSTALLATION OF POSTS OR FOOTINGS AND NOTIFY THE OWNER, ENGINEER OR LANDSCAPE ARCHITECT OF ANY POTENTIAL MISALIGNMENT OR CLEARANCE ISSUES.
7. ALL CONCRETE SHALL BE PORTLAND CEMENT CONCRETE WITH MINIMUM 3000 PSI STRENGTH PER THE SPECIFICATIONS.

DRAINAGE NOTES:

1. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES, STRUCTURES, AND SERVICES BEFORE COMMENCING WORK. THE LOCATIONS OF UTILITIES, STRUCTURES, AND SERVICES SHOWN IN THE CONTRACT DOCUMENTS SHALL BE DEEMED TO BE APPROXIMATIONS ONLY. ALL DISCREPANCIES BETWEEN WHAT IS SHOWN AND THE ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO THE DISTRICT REPRESENTATIVE. THE CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT (USA) AT (800) 227-2600 PRIOR TO ANY DEMOLITION OR EXCAVATION. UPON COMPLETION OF USA MARKING OPERATIONS, CONTRACTOR SHALL RECORD ALL UTILITY MARKINGS ON A SEPARATE SET OF DRAWINGS. THIS SET SHALL BE KEPT ON-SITE FOR REFERENCE FOR DURATION OF CONTRACT.
2. ALL EXISTING DRAINAGE STRUCTURES, BOXES, UTILITY VAULTS, ETC. TO REMAIN, SHALL BE BROUGHT TO FINAL FINISH GRADE PRIOR TO FINAL SURFACE TREATMENT.
3. THE CONTRACTOR IS TO PROTECT DRAINAGE SYSTEM FROM DEBRIS, INCLUDING SOIL, ROCK MATERIAL, AND TRASH FROM ENTERING THE PIPE DURING CONSTRUCTION. CONTRACTOR SHALL AVOID PLACING CONSTRUCTION VEHICLES OVER INSTALLED DRAINAGE TRENCHES TO PREVENT CRUSHING OF PIPE.
4. COORDINATE ALL SLEEVING AND UTILITY LOCATIONS AS SHOWN ON THE PLANS AND DETAILS CONTAINED WITHIN THESES CONTRACT DOCUMENTS.
5. THE CONTRACTOR IS TO ENSURE THAT ALL DRAINAGE AND UTILITY LINES (ACTIVE AND NEW) ARE PROTECTED AND UNDAMAGED FROM TRENCHING AND FOOTING EXCAVATIONS FOR NEW FOOTINGS, PARTICULARLY FOR NEW FENCING AND WALLS.
6. ALL ABANDONED STORM LINES SHALL BE REMOVED UNLESS OTHERWISE DIRECTED BY OWNER.
7. PRIOR TO ALL DRAINAGE AND UTILITY WORK, CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL POTENTIAL DRAINAGE CONNECTIONS AND EXISTING UTILITY BY POT-HOLING. IN ADDITION, ALL DOWNSTREAM CONNECTIONS TO EXISTING STRUCTURES SHALL BE THE START OF THESE OPERATIONS, AND GRADES SHALL BE VERIFIED. CONTRACTOR SHALL FLUSH AND RUN CAMERAS THROUGH EXISTING DRAINAGE SYSTEM TO REMAIN, WITHIN LIMIT OF WORK, TO VERIFY SYSTEM'S INTEGRITY.
8. LENGTHS OF DRAIN LINES BETWEEN PROPOSED AND EXISTING ELEMENTS AND INVERT ELEVATIONS OF PROPOSED DRAINAGE STRUCTURES ON EXISTING DRAIN LINES ARE APPROXIMATE AND SHALL BE VERIFIED IN THE FIELD.

UTILITY NOTES

1. AN ACCESS INTERRUPTION NOTICE SHALL BE SECURED WHEN INTERRUPTING THE SITE OPERATION FOR UTILITY INSTALLATION.
2. THE SITE BACKFLOW ASSEMBLY NEEDS TO CARRY AN APPROVED LISTING BY USC OR ASSE. A CERTIFIED BACKFLOW TESTING AGENCY SHALL PROVIDE TEST AFTER INSTALLATION. BACKFLOW TESTING AGENCY SHALL PROVIDE COPY OF TEST RESULTS OF APPROVED SITE BACKFLOW PREVENTION ASSEMBLY TO ARCHITECT OR ENGINEER AND BUILDING INSPECTOR. UPC 603.4.2
3. WATER SERVICE PIPE SHALL CONFORM TO NSF 61 AND SHALL CONFORM TO ONE OF LISTED STANDARDS IN UPC TABLE 604.1.
4. FOR NONMETALLIC PIPE, PROVIDE UNDERGROUND LOCATING DEVICE, SUCH AS A TRACER WIRE, ARS 40-360.22
5. PROVIDE BACKFILL DETAIL OR SPECIFICATION, UPC 103.2.1
6. TEST ALL WATER PIPING PRIOR TO BACKFILL AND COVER. CALL FOR INSPECTION AND WITNESS TESTING PRIOR TO CONCEALING WATER PIPING, UPC 103.5.6
7. FLUSH ALL POTABLE WATER PIPING PRIOR TO OCCUPANCY, UPC 609.
8. PROVIDE COMPLETE AS-BUILTS AFTER INSTALLATION SHOWING PIPE SIZE, INSTALLATION, INVERTS, MANHOLES, AND TIE-IN TO PUBLIC SEWER SYSTEM. SUBMIT ALL REQUIRED DOCUMENTATION UNDER SEAL AND SIGNATURE OF THE PROFESSIONAL REGISTRANT.

DIMENSION NOTES

1. THE CONTRACTOR SHALL VERIFY CRITICAL DIMENSIONS, REFERENCE POINTS, AND BENCHMARKS, AND NOTIFY OWNER PRIOR TO PLACEMENT OF CONCRETE AND PERMANENT ITEMS.
2. EXISTING CONDITIONS MAY VARY FROM SHOWN DIMENSION. CONTRACTOR MUST NOTIFY OWNER PRIOR TO CONSTRUCTION IF DISCREPANCIES ARE FOUND.
3. ALL ELECTRICAL AND LOW VOLTAGE BOXES OR ENCLOSURES SHOWN ON THE ELECTRICAL PLAN ARE DIAGRAMMATIC AND FOR REFERENCE ONLY. ELECTRICAL AND LOW VOLTAGE BOXES SHALL BE INSTALLED PER LOCATION SHOWN ON DIMENSION PLAN AND DETAILS.

GENERAL GRADING NOTES:

1. ELEVATIONS SHOWN ARE FINISHED GRADE, TOP OF PAVEMENT OR TOP OF SAND SURFACE.
2. CONTRACTOR MUST PROVIDE SMOOTH AND FLUSH SURFACE AT ALL FIELD ENTRANCES AND MATERIAL TRANSITIONS. NO DIPS, LIPS OR GAPS ARE ACCEPTED.
3. SUBGRADE MUST BE PREPARED AND COMPACTED IN ACCORDANCE WITH ALL RECOMMENDATIONS AND REQUIREMENTS PER GEOTECHNICAL REPORT PREPARED BY GEOTECHNIQUES, DATED JANUARY 31, 2023, AND SPECIFICATIONS.
4. ALL ACCESSIBLE PATHWAYS MUST BE INSTALLED IN ACCORDANCE WITH ADA REQUIREMENTS.

IRRIGATION NOTES

1. CONNECT TO EXISTING MAINLINE AT APPROXIMATE LOCATION SHOWN.
2. ALL IRRIGATION VALVE AND PIPE SYMBOL LOCATIONS ARE DIAGRAMMATIC. DO NOT INSTALL IRRIGATION EQUIPMENT IN DIRECT CONFLICT WITH UTILITY, LANDSCAPE OR HARDSCAPE ELEMENTS. COORDINATE LOCATION OF ALL ON FIELD UTILITIES INCLUDING CIVIL STORM DRAIN WITH OTHER TRADES PRIOR TO IRRIGATION INSTALLATION. CONTACT ENGINEER IMMEDIATELY IF CONFLICTS ARE LOCATED.
3. DO NOT INSTALL IRRIGATION MAINLINE IN JOINT TRENCH WITH DRAINAGE COLLECTOR LINE.
4. REFER TO SPECIFICATIONS FOR ALL PRESSURE TESTING AND FLUSHING REQUIREMENTS.
5. SEPARATE SLEEVES ARE REQUIRED FOR PIPE AND WIRE AT ALL HARDSCAPE AND WALL CROSSINGS. SLEEVES MUST BE 2X NOMINAL DIAMETER OF WATER SUPPLY PIPE. WIRE SLEEVE MUST BE 3" MINIMUM.
6. EXISTING UTILITIES SHOWN ARE FOR REFERENCE ONLY. ADDITIONAL UTILITIES MAY BE PRESENT. CONTRACTOR IS RESPONSIBLE FOR LOCATING REGARDLESS OF IF THEY APPEAR ON THESE PLANS OR NOT. ALL IRRIGATION LINES MUST BE TRENCHED WITH CAUTION. CONTRACTOR IS RESPONSIBLE TO REPAIR OR REPLACE ANY UTILITIES DAMAGED DURING CONSTRUCTION.
7. ALL VALVE BOXES MUST BE PURPLE FOR RECLAIMED WATER. QUICK COUPLER VALVES SPECIFICALLY CALLED OUT TO BE INSTALLED IN HARDSCAPE MUST BE IN CONCRETE BOXES WITH CONCRETE LIDS.
8. IRRIGATION VALVE NUMBERS ARE FOR PLAN REFERENCE ONLY. COORDINATE WITH OWNER TO DETERMINE FINAL VALVE CONTROLLER STATION NUMBERS. RECORD STATION NUMBERS ON AS-BUILTS AND CONTROLLER CHART.
9. THE CONTRACTOR SHALL COORDINATE ALL IRRIGATION MAIN AND PVC LATERAL LINES SO THAT THE ARE NOT PLANTED UNDER TREES AND KEPT A MINIMUM OF 36" FROM NEW AND EXISTING TREE TRUNKS.
10. CONTRACTOR MUST PROVIDE ALL NECESSARY EQUIPMENT, WIRES AND PROGRAMMING REQUIRED TO INCORPORATE NEW IRRIGATION CONTROLLER INTO EXISTING IRRIGATION CENTRAL CONTROL SYSTEM.
11. AVOID DAMAGE TO EXISTING TREE ROOT SYSTEMS. MAINTAIN 5' SEPARATION MINIMUM FROM TREE TRUNKS. NOTIFY ENGINEER PRIOR TO TRENCHING WHERE IRRIGATION AND TREE CONFLICTS EXIST.
12. ABOVE GRADE PIPE MUST BE COPPER. NO PVC PIPE MAY BE INSTALLED ABOVE GRADE.
13. CONTRACTOR MUST IDENTIFY PIPE SIZE OF MAINLINE AND LATERALS AT ALL CONNECTION POINTS TO EXISTING SYSTEM. IF AT ANY LOCATION THE EXISTING PIPE DOES NOT MATCH THE NOMINAL SIZE CALLED FOR ON NEW EXTENSION THEN THE CONTRACTOR MUST NOTIFY ENGINEER IMMEDIATELY.
14. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING IRRIGATION FLOW AND AUTOMATIC CONTROL TO ALL EXISTING VALVES TO REMAIN, INCLUDING VALVES OUTSIDE OF THE CONSTRUCTION AREA. AT THE START OF CONSTRUCTION THE CONTRACTOR MUST POTHOLE AND IDENTIFY CONTROL WIRE LOCATIONS AND DETERMINE WIRE COUNTS REQUIRED TO INSTALL NEW VALVES AND MAINTAIN EXISTING VALVES. THE CONTRACTOR MUST IMMEDIATELY NOTIFY THE ENGINEER IF THERE IS A SHORTAGE OF WIRES OR CONTROL STATIONS AS NEEDED TO MAINTAIN EXISTING SYSTEM AND PROPOSED ADDITIONS.
15. ALL WIRE SPLICES MUST BE MADE IN DEDICATED VALVE BOXES LOCATED IN LANDSCAPE AREAS. CONTRACTOR MUST AS-BUILT ALL WIRE SPLICE LOCATIONS, STATION NUMBERS THAT ARE CONTAINED IN THE BOX AND SPARE WIRE COUNTS
16. ANY TRENCHES OR DAMAGE DONE TO GRASS AREAS TO REMAIN MUST BE REPAIRED WITH SOD, MATCHING THE EXISTING GRASS SPECIES.
17. CONTRACTOR MUST FULLY INVESTIGATE EXISTING IRRIGATION SYSTEM PRIOR TO CONSTRUCTION TO DETERMINE MAINLINE ROUTING TO ALL IRRIGATION VALVES TO REMAIN. EXTEND BOTH MAINLINE AND WIRES TO ANY REMAINING MAINLINE OR VALVES AS NEEDED TO MAINTAIN IRRIGATION WATER AND AUTOMATED CONTROL TO EXISTING IRRIGATION.

NOTES:

1. EMBED ALL NEW HAND RAILS A MINIMUM OF 6" INTO EXISTING CONCRETE STAIRS. CONTRACTOR TO

- VERIFY MINIMUM EMBEDMENT DEPTHS CAN BE MET PRIOR TO CORE DRILL.
2. INSTALL CONTRASTING STRIPES AT STAIR NOSE PER CBC 11B-504.4.1.
3. ALL HANDRAIL COMPONENTS SHALL BE HOT DIPPED GALVANIZED STEEL. COLD GALVANIZE ALL FIELD

7'-0"

HANDRAIL

CAST IN PLACE
CONCRETE
STAIRS
FINISHED
GRADE

FRONT ELEVATION

SPEED DOWEL PER
DETAIL 7 ON C31-02

FINISHED
SURFACE

SEE RAIL TO POST ENLARGEMENT

1 1/2" SCH 40 PIPE GALVANIZED,
PRIMED, AND PAINTED GRAY
(HANDRAIL)

4'-0" MAX.

12"

2'-2"
12"

SEE STAIR
NOSING
3'-0"

38" MAX.

ENLARGEMENT

1'-8"

EQ. EQ.

9"

12"

SEE C5-02
7" MAX. TYP.

9"

12"

EXPANSION

JOINT

#4 NOSING, TYP.
#4 @ 16" O.C. EW, TYP.
#4 T&B

SUBGRADE PER
SPECIFICATIONS AND
GEOTECHNICAL REPORT

THICKENED CONCRETE

CAST IN PLACE CONCRETE
STAIRS PER C3-01

2 1/2" CORE DRILL AND NON-SHRINK GROUT, TYP.

SECTION

RIBBED ABRASIVE STAIR NOSING
PER SPECIFICATIONS. COLOR BLACK.

1/8" ROUNDED CORNERS,

1/4" ROUNDED CORNER

TYPICAL ALL CORNERS
ALONG HANDRAIL

GRIND ALL

WELDS
SMOOTH

STAIR NOSING
ENLARGEMENT

RAIL TO POST
ENLARGEMENT



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CONSTRUCTION
DOCUMENTS

REV.

ADDENDUM 1 6/9/23

MOORPARK COLLEGE
BEACH VOLLEYBALL
COURTS

MOORPARK, CA

DESIGNED: BL
DATE: APR 4, 2023
DRAWN: TML
PROJ. 21-152
SCALE: N/A

REF: 1004

GENERAL NOTES

DWG. NO.

C1-00

DS.

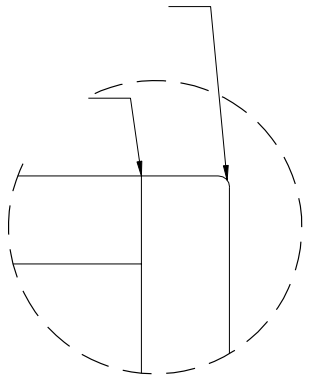
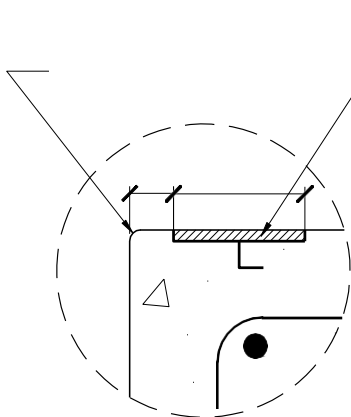
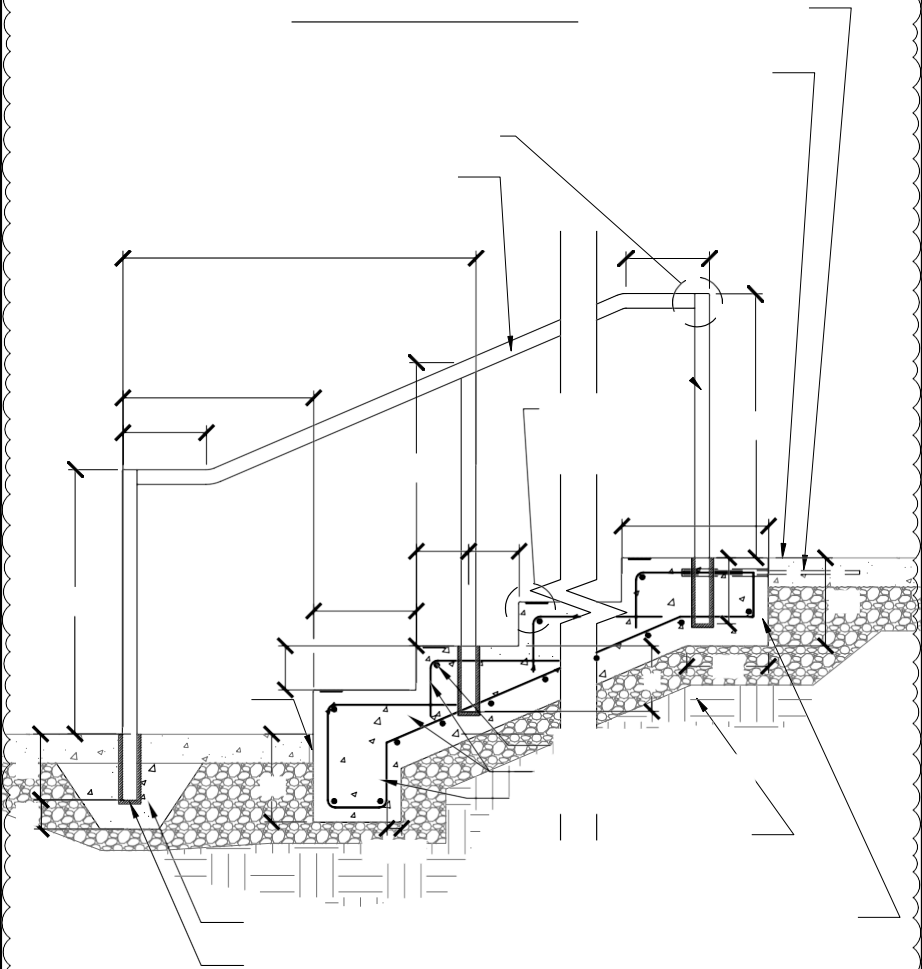
4. GRIND ALL WELDS SMOOTH.

1

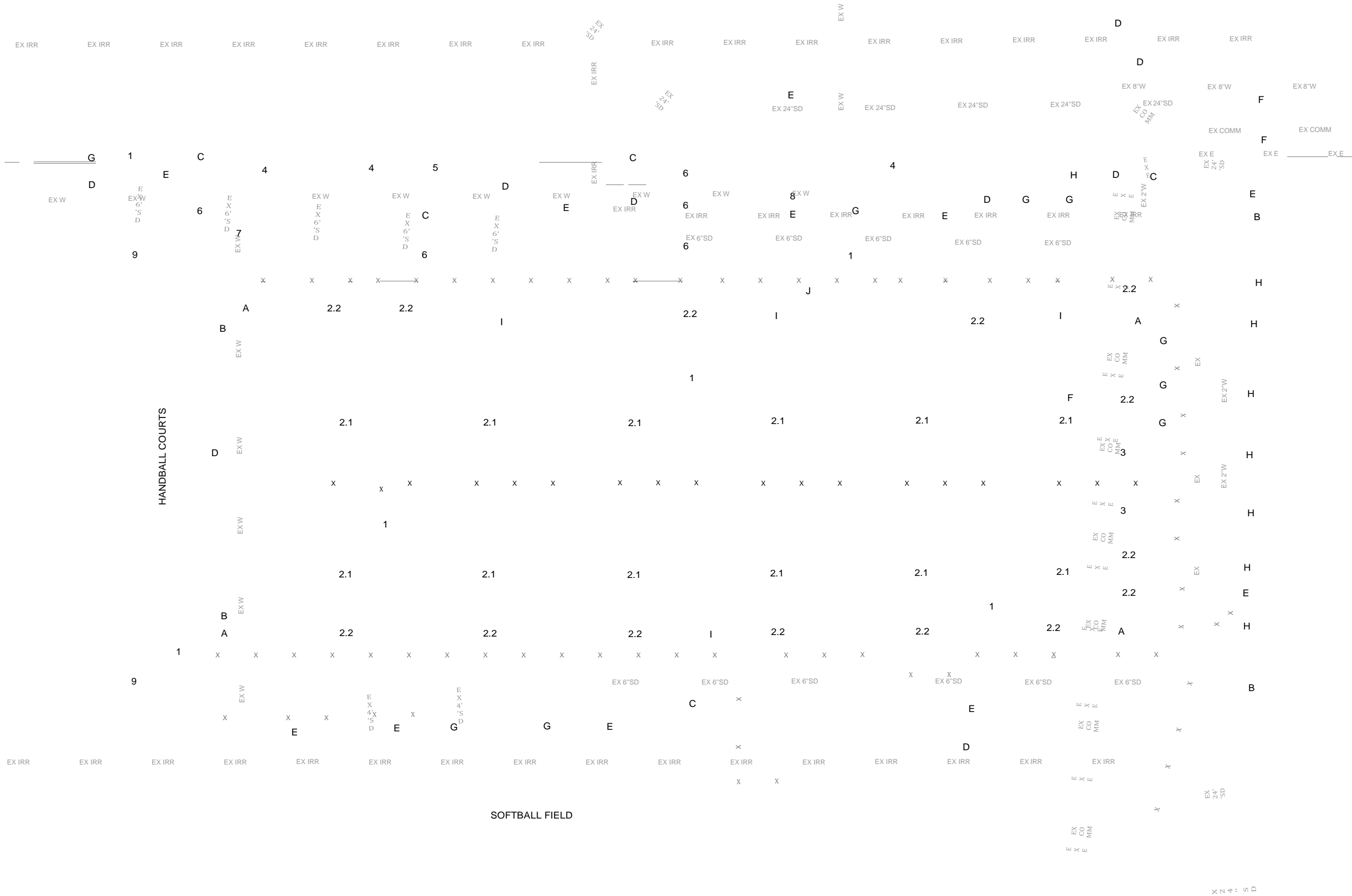
CONCRETE STAIRS AND HANDRAIL

NTS

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PROTECT IN PLACE KEYNOTES:

- A PROTECT IN PLACE EXISTING CHAIN LINK FENCE POSTS AND PERIMETER CURB. MODIFICATIONS TO GATES AND REPLACEMENT OF CHAIN LINK FENCING FABRIC TO BE PROVIDED BY CONTRACTOR.
- B PROTECT IN PLACE EXISTING CONCRETE WALL.
- C PROTECT IN PLACE EXISTING CONCRETE/ASPHALT AREA.
- D PROTECT IN PLACE EXISTING IRRIGATION/WATER LINES.
- E PROTECT IN PLACE EXISTING STORM DRAIN PIPES AND INLETS.
- F PROTECT IN PLACE EXISTING ELECTRICAL AND COMMUNICATION LINES.
- G PROTECT IN PLACE EXISTING TREES.
- H PROTECT IN PLACE EXISTING POWER/LIGHT POLE.
- I PROTECT IN PLACE EXISTING ACCESS GATES.
- J PROTECT IN PLACE EXISTING ELECTRICAL BOXES/VAULTS.

DEMOLITION KEYNOTES:

- 1 REMOVE AND DISPOSE OF EXISTING CONCRETE COURTS AND BASE. REMOVE ADDITIONAL DEPTH AS NECESSARY TO CLEAR EXCESSIVE BASE STONE OR OTHER UNSUITABLE MATERIAL.
- 2.1 REMOVE AND SALVAGE EXISTING COURT LIGHT POLES, FIXTURES, AND RELATED CONTROL WIRES, BOXES AND ELECTRICAL PANELS WITHIN LIMIT OF WORK. RETURN EQUIPMENT TO OWNER. POLES AND BASES TO BE COMPLETELY REMOVED IN COURT AREA.
- 2.2 REMOVE AND SALVAGE EXISTING COURT LIGHT POLES, FIXTURES, AND RELATED CONTROL WIRES, BOXES AND ELECTRICAL PANELS WITHIN THE SCOPE OF WORK. POLES ALONG PERIMETER TO BE CUT AT BASE AND BASE OF FOOTING TO REMAIN. FILL CAVITY OF REMAINING POLE WITH GROUT.
- 3 SALVAGE AND RETURN TO OWNER EXISTING BENCHES.
- 4 REMOVE AND DISPOSE OF EXISTING TREE.
- 5 REMOVE AND DISPOSE OF EXISTING DRINKING FOUNTAIN.
- 6 REMOVE AND DISPOSE OF EXISTING CONCRETE SIDEWALK CURB AND BASE.
- 7 REMOVE AND DISPOSE OF EXISTING CHAIN LINK GATE AND FABRIC. PROTECT POSTS IN PLACE.
- 8 REMOVE AND DISPOSE OF EXISTING CONCRETE STAIR SET AND HANDRAILS.
- 9 UNBOLT & REMOVE EXISTING 6' TALL STEEL NET POSTS AND NETTING FROM TOP OF WALL.


LEGEND

LIMITS OF CONSTRUCTION			
EXISTING CONCRETE/ASPHALT TO BE REMOVED			
X	X	X	X
CHAIN LINK FENCE LINE			
UNDERGROUND ELECTRICAL			
UNDERGROUND IRRIGATION			
UNDERGROUND WATER			
UNDERGROUND COMMUNICATION			
UNDERGROUND STORM SEWER			
SAWCUT LINE			
X	X	X	X
CHAIN LINK FENCE			
CONCRETE CURB			
CONCRETE SIDEWALK			
BUILDING			
SITE WALL			



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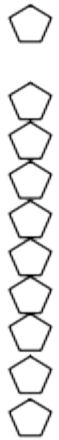
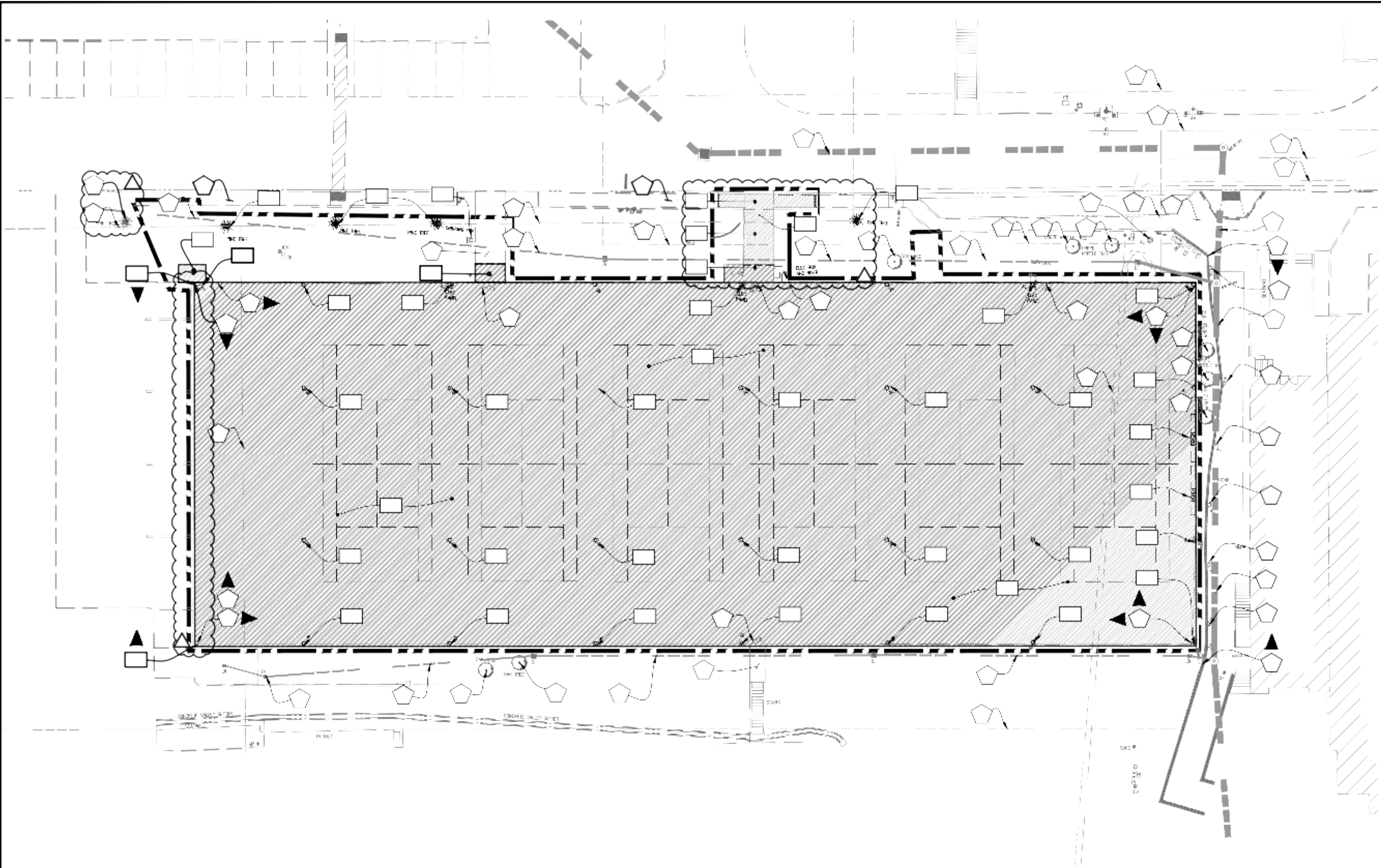
CONSTRUCTION DOCUMENTS

REV.		
	ADDENDUM 1	6/9/23

MOORPARK COLLEGE BEACH VOLLEYBALL COURTS

MOORPARK, CA	
DESIGNED:	BL
DATE:	APR 4, 2023
DRAWN:	TML
PROJ.	21-152
SCALE:	1" = 20'

DEMOLITION PLAN



0 20 40 Feet
 SCALE: 1" = 20'

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DWG. NO.
C2-02



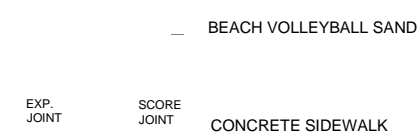
SURFACING KEYNOTES:

- 1 INSTALL VOLLEYBALL COURT SAND PROFILE PER SPECIFICATIONS AND DETAIL 1 ON SHEET C3-02.
- 2 INSTALL VOLLEYBALL BOUNDARY LINE ANCHOR PER SPECIFICATIONS AND DETAIL 2 ON SHEET C3-02. SET ANCHOR 12" OFF CORNER OF COURT LOCATION, TYP.
- 3 INSTALL VOLLEYBALL NET SLEEVE ON FOOTING PER SPECIFICATIONS AND DETAIL 3 ON SHEET C3-02. NET AND POST TO BE INSTALLED PER SPECIFICATIONS AND DETAIL.
- 4 INSTALL CONCRETE COURT EDGE WITH LIGHT BROOM FINISH PER SPECIFICATIONS AND DETAILS 5 AND 7 ON SHEET C3-02. CONTRACTOR TO PROVIDE FLUSH TRANSITIONS AT ALL ADJACENT PAVEMENT SURFACES.
- 5 INSTALL SAND WASH STATION WITH TRENCH DRAIN AND DRYWELL PER SPECIFICATIONS AND DETAIL 12 ON SHEET C3-02 AND DETAIL 3 ON SHEET C7-02.
- 6 INSTALL DRINKING FOUNTAIN WITH SIDE RAILS AND DRYWELL PER SPECIFICATIONS AND DETAIL 1 ON SHEET C3-03 AND DETAIL 3 ON SHEET C7-02.
- 7 INSTALL SPORTS LIGHTING POLES PER ELECTRICAL PLANS AND MUSCO SHOP DRAWINGS.
- 8 INSTALL CONCRETE CURB PER SPECIFICATIONS AND DETAIL 6 ON SHEET C3-02.
- 9 INSTALL 4' WIDE ACCESSIBLE GATE WITH 3' WIDE MAINTENANCE GATE AT EXISTING FENCE POSTS PER DETAIL 9 ON SHEET C3-02.
- 10 REPAIR EXISTING CHAIN LINK, GATES, POSTS, AND RAILS AS NEEDED, AND ADJUST TO NEW BOTTOM RAIL ELEVATION. INSTALL NEW VINYL CLAD CHAIN LINK FABRIC AND WINDSCREEN TO REPLACE EXISTING, PER DETAIL 8 ON SHEET C3-02.
- 11 INSTALL 10' TALL BACKLINE NET, POSTS AND FOOTINGS PER SPECIFICATIONS, MANUFACTURER INSTALLATION INSTRUCTIONS, AND DETAILS 3 AND 4 ON SHEET C3-02. CONTRACTOR MUST PROVIDE MANUFACTURER PACKAGE SYSTEM THAT INCLUDES ALL SUPPORT AND FOOTING SHOP DRAWINGS SIGNED AND SEALED BY STRUCTURAL ENGINEER REGISTERED IN THE STATE OF CALIFORNIA.
- 12 INSTALL NEW CURB & GUTTER PER DETAIL 6 ON SHEET C3-03.
- 13 INSTALL NEW CONCRETE STAIR SET WITH HANDRAILS PER DETAIL 1 ON SHEET C1-00.
- 14 INSTALL ELECTRICAL GEAR PAD PER DETAIL 1 ON SHEET E401.



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SURFACING LEGEND



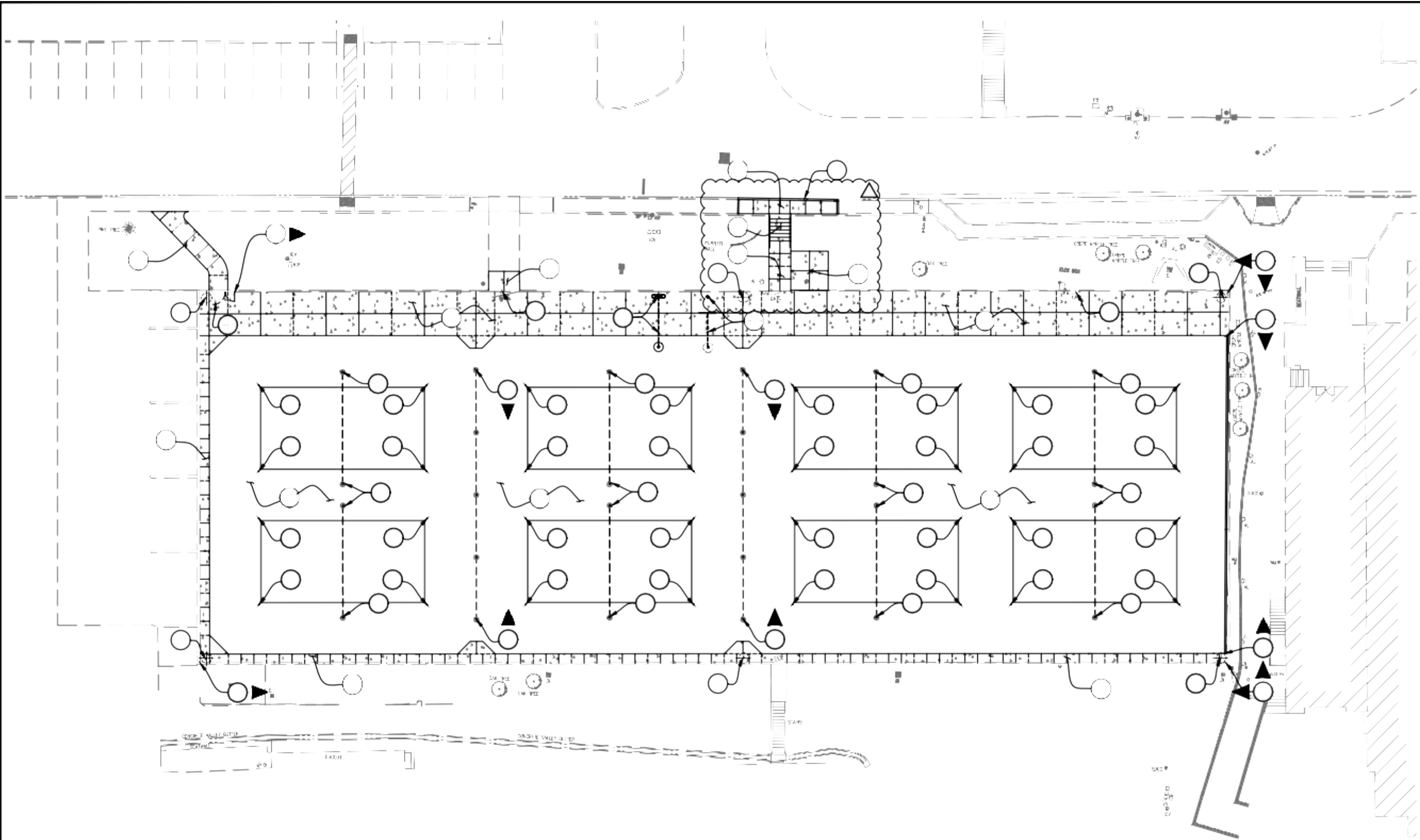
CONSTRUCTION
DOCUMENTS

REV.	
1	ADDENDUM 1 6/9/23

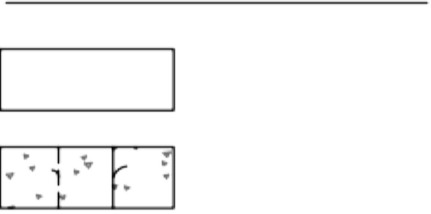
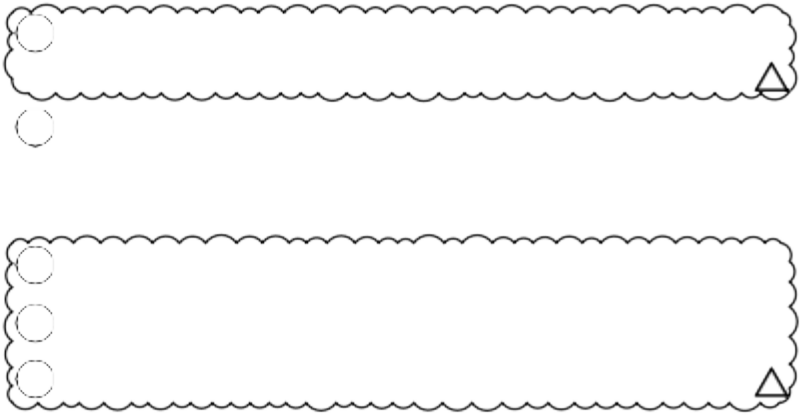
MOORPARK COLLEGE
BEACH VOLLEYBALL
COURTES

MOORPARK, CA	
DESIGNED:	BL
DATE:	APR 4, 2023
DRAWN:	TML
PROJ.	21-152
SCALE:	1" = 20'

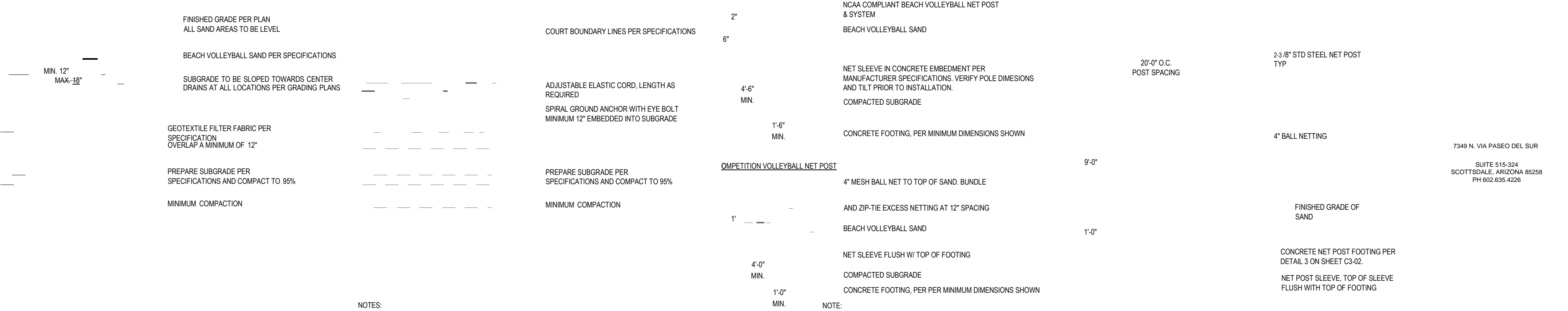
SURFACING PLAN



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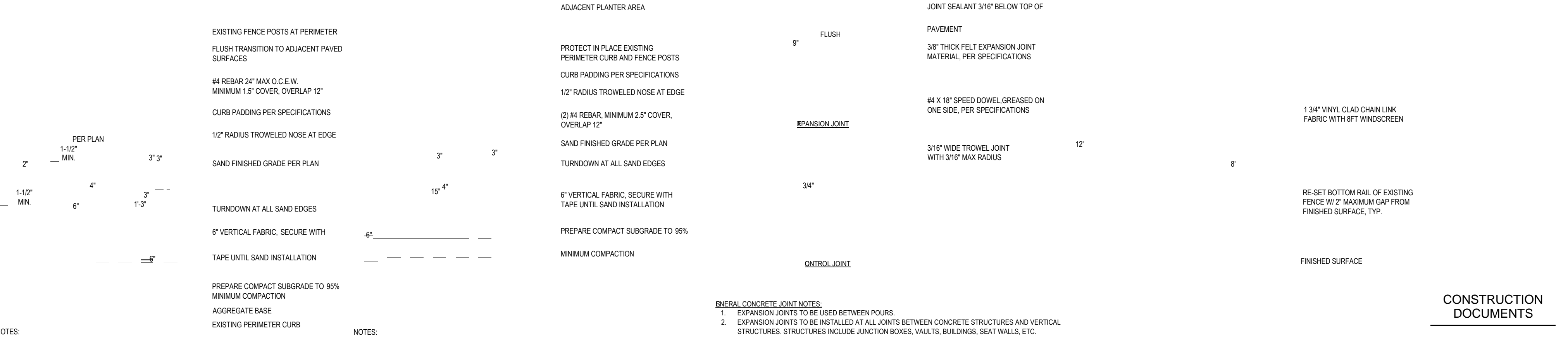


1 VOLLEYBALL COURT SAND PROFILE
NTS

2 VOLLEYBALL BOUNDARY LINE ANCHOR
NTS

3 VOLLEYBALL NET SLEEVE DETAIL
NTS

4 10-FOOT TALL BACKLINE NET
NTS

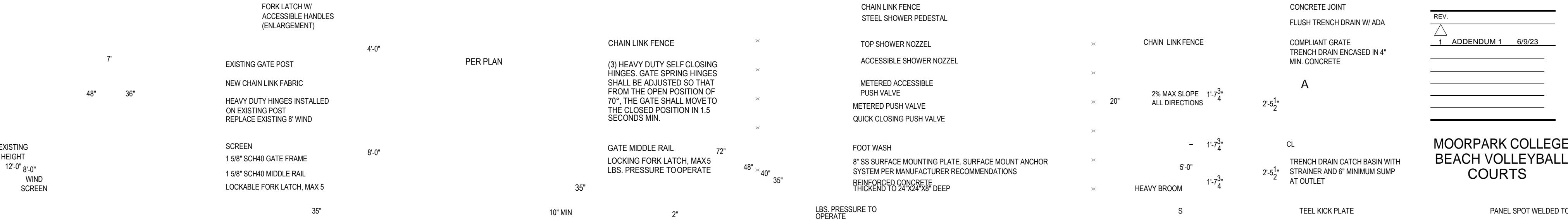


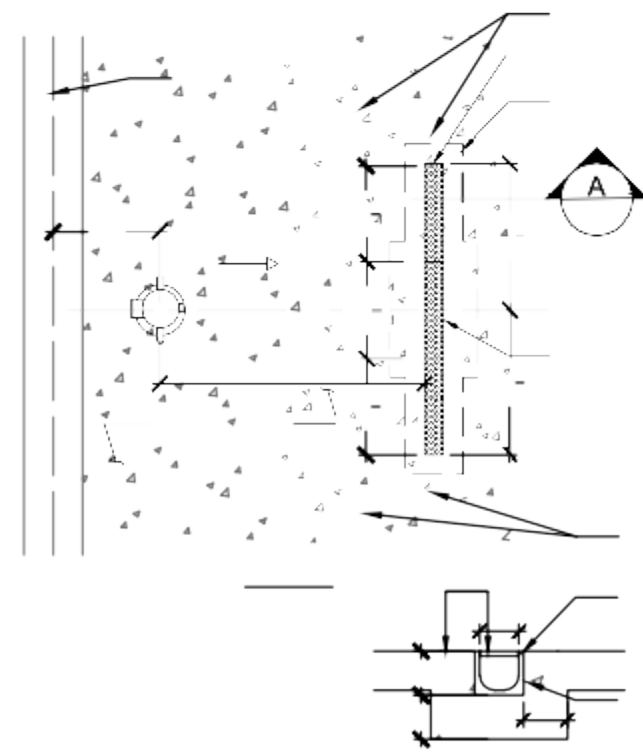
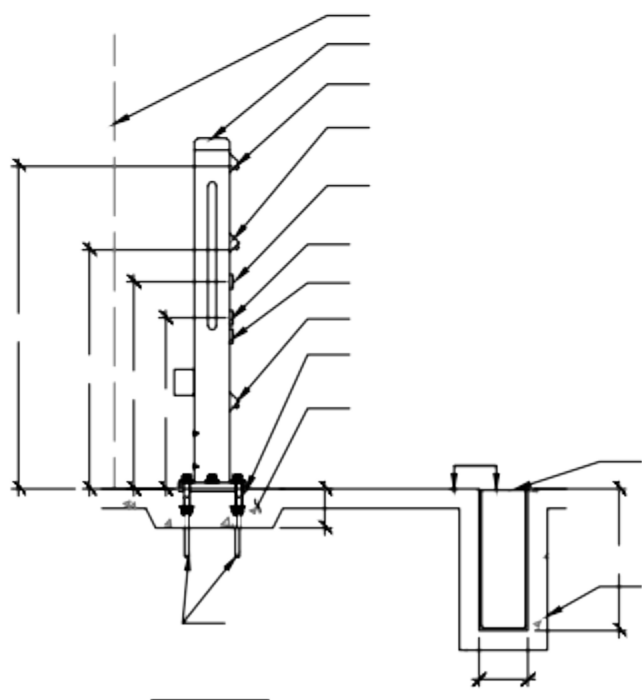
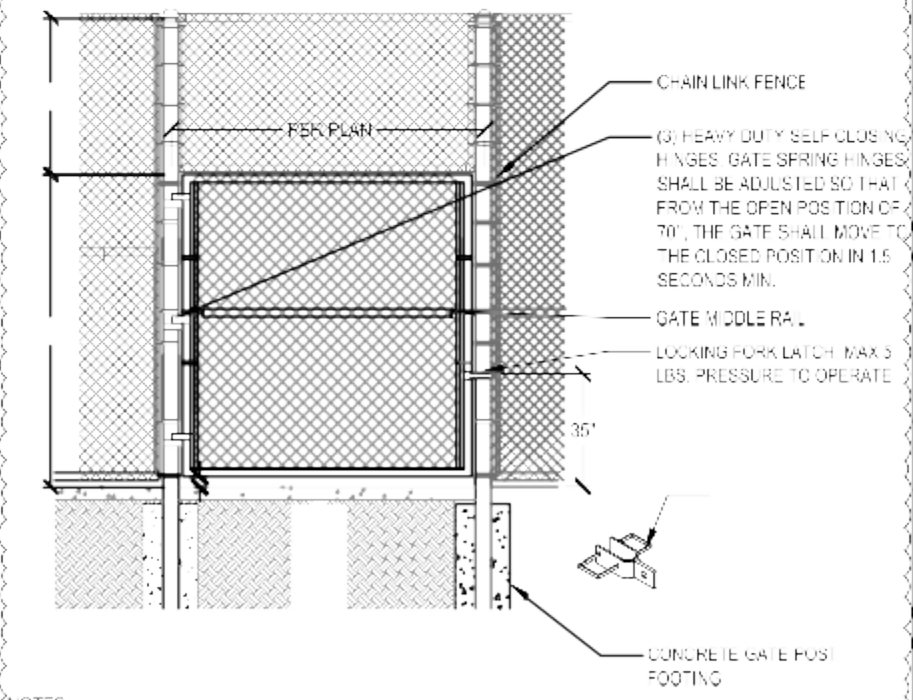
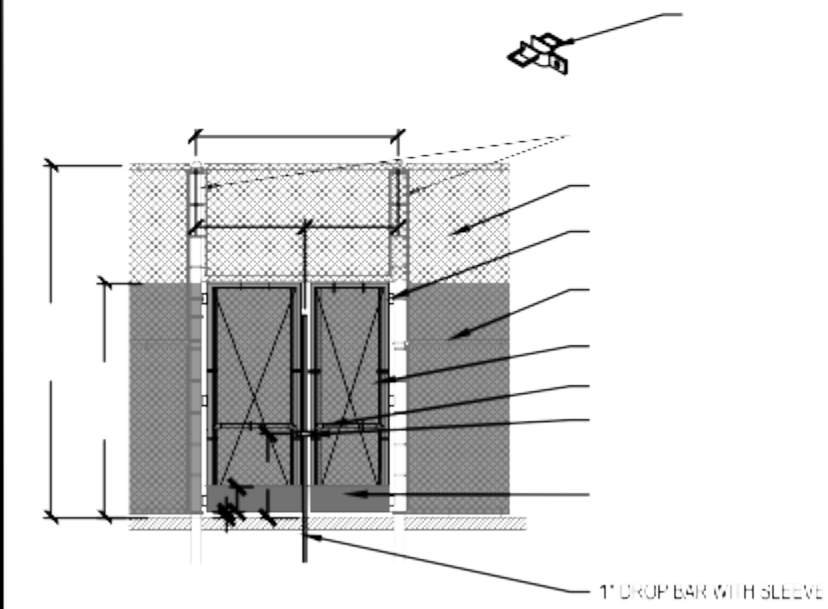
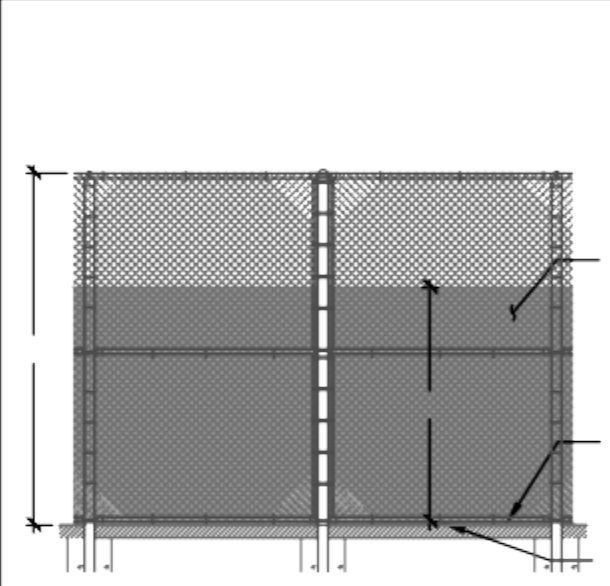
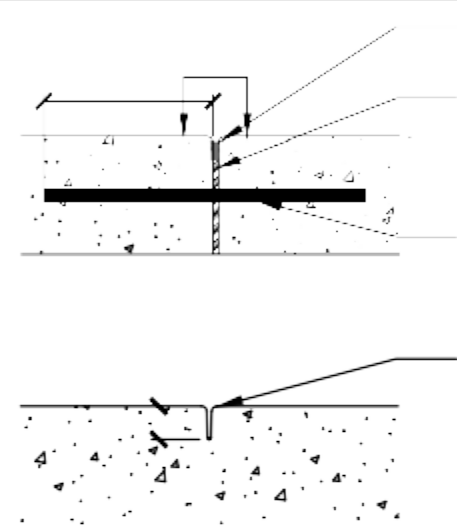
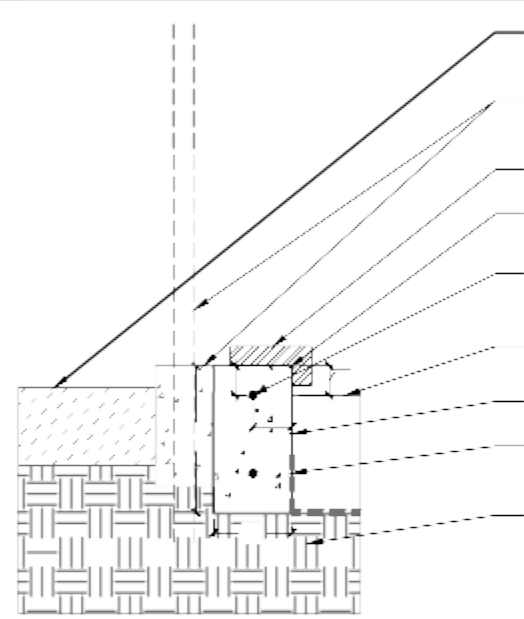
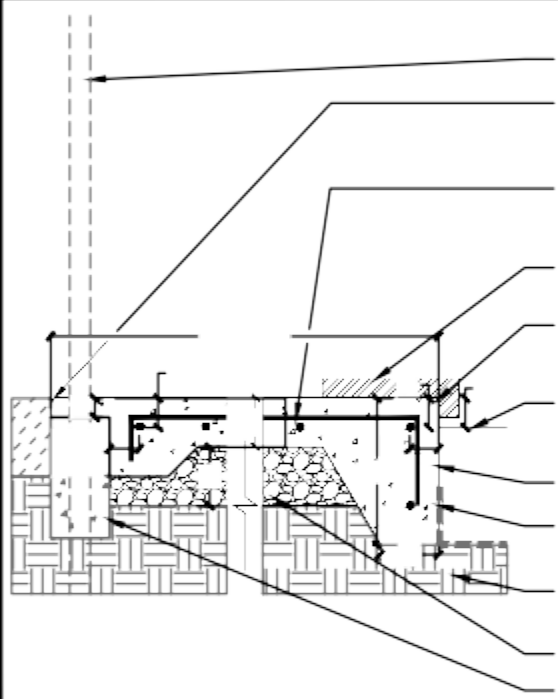
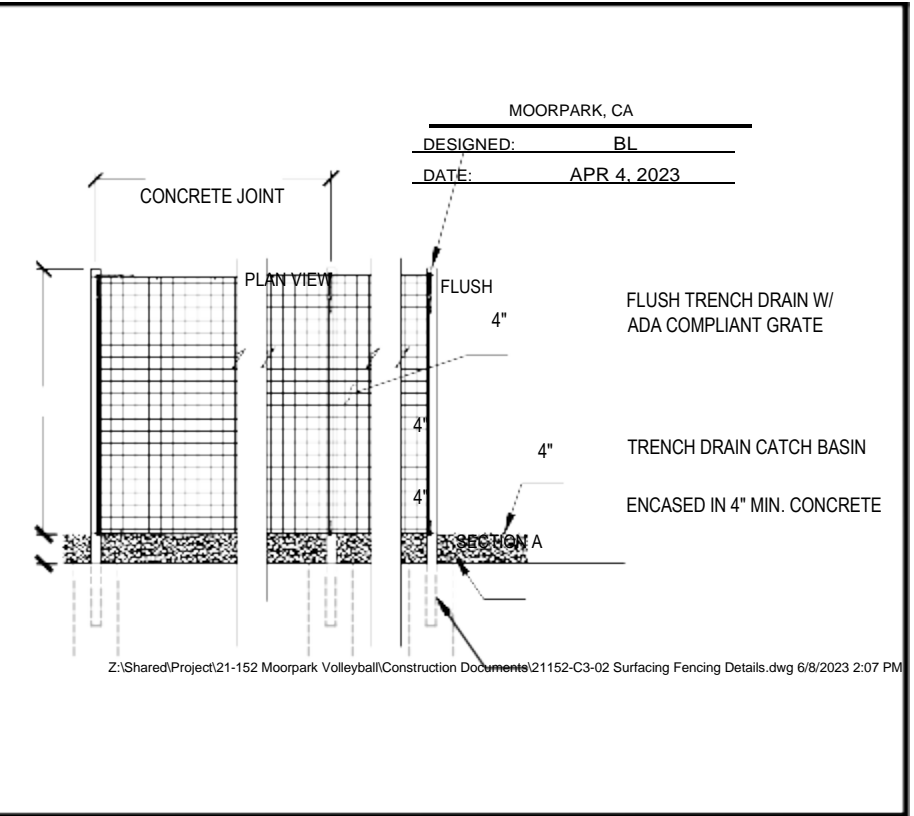
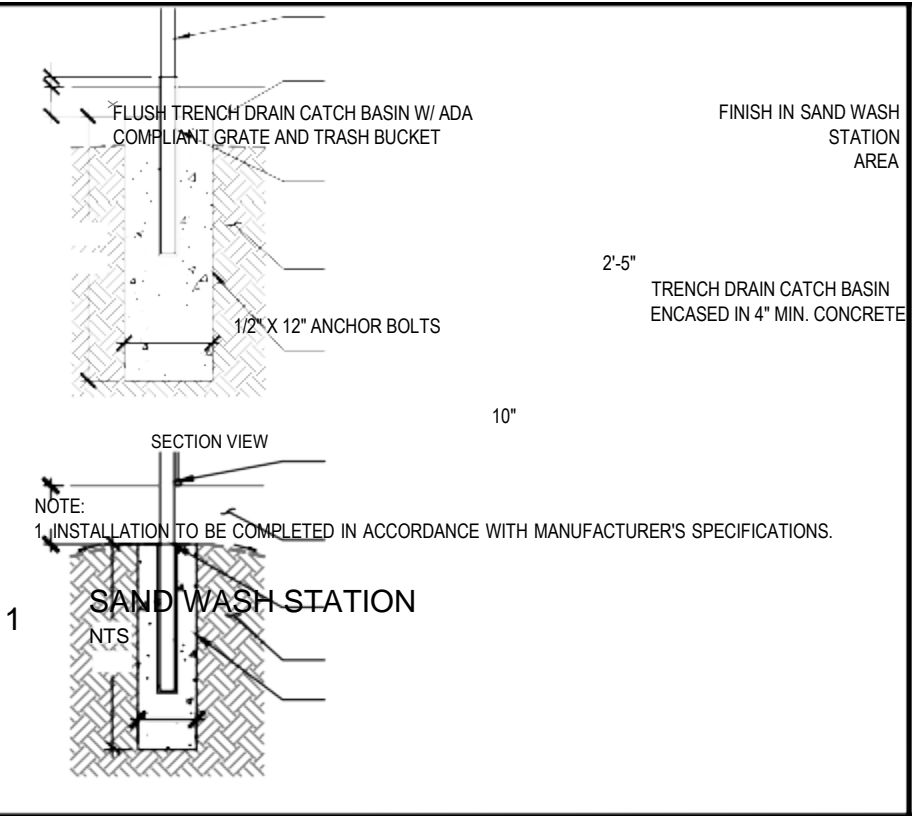
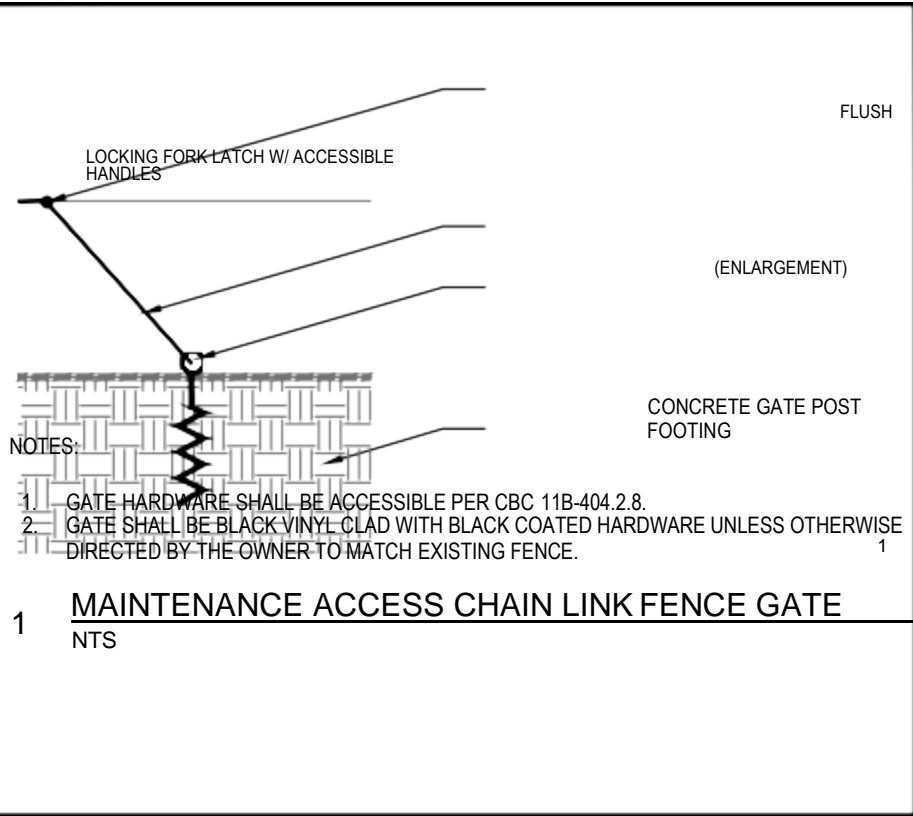
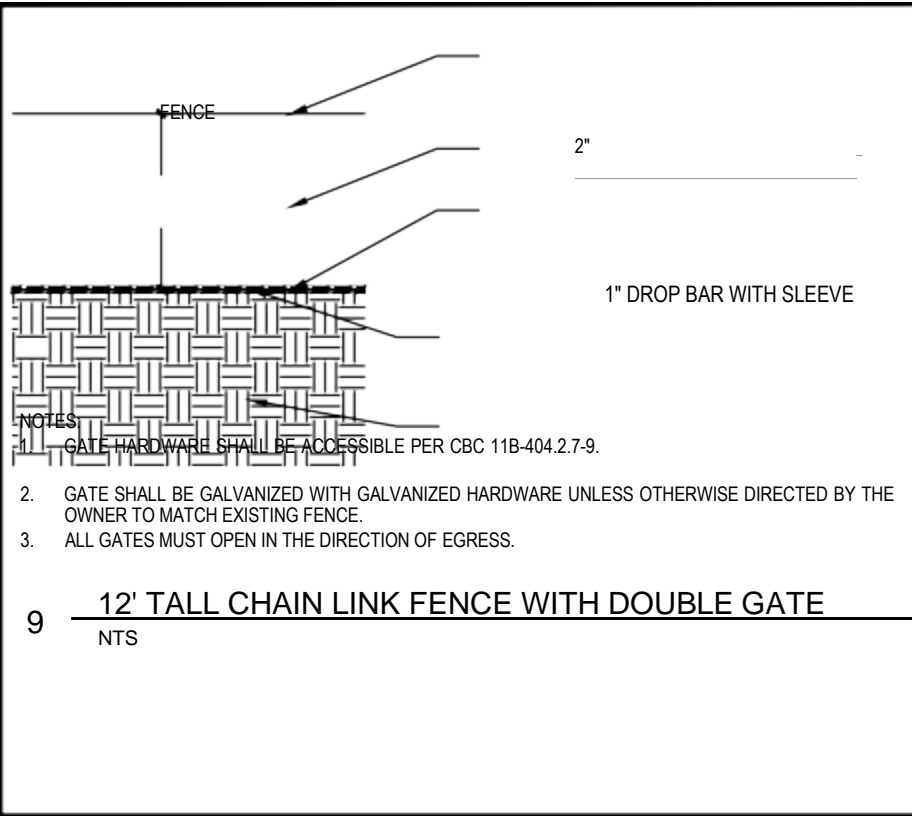
5 CONCRETE COURT EDGE
NTS

6 CONCRETE CURB
NTS

7 CONCRETE JOINT DETAIL
NTS

8 EX. 12' TALL CHAIN LINK FENCE WITH WIND SCREN
NTS





DRAWN: TML

PROJ: 21-152

SCALE: 1/8" = 1'-0"

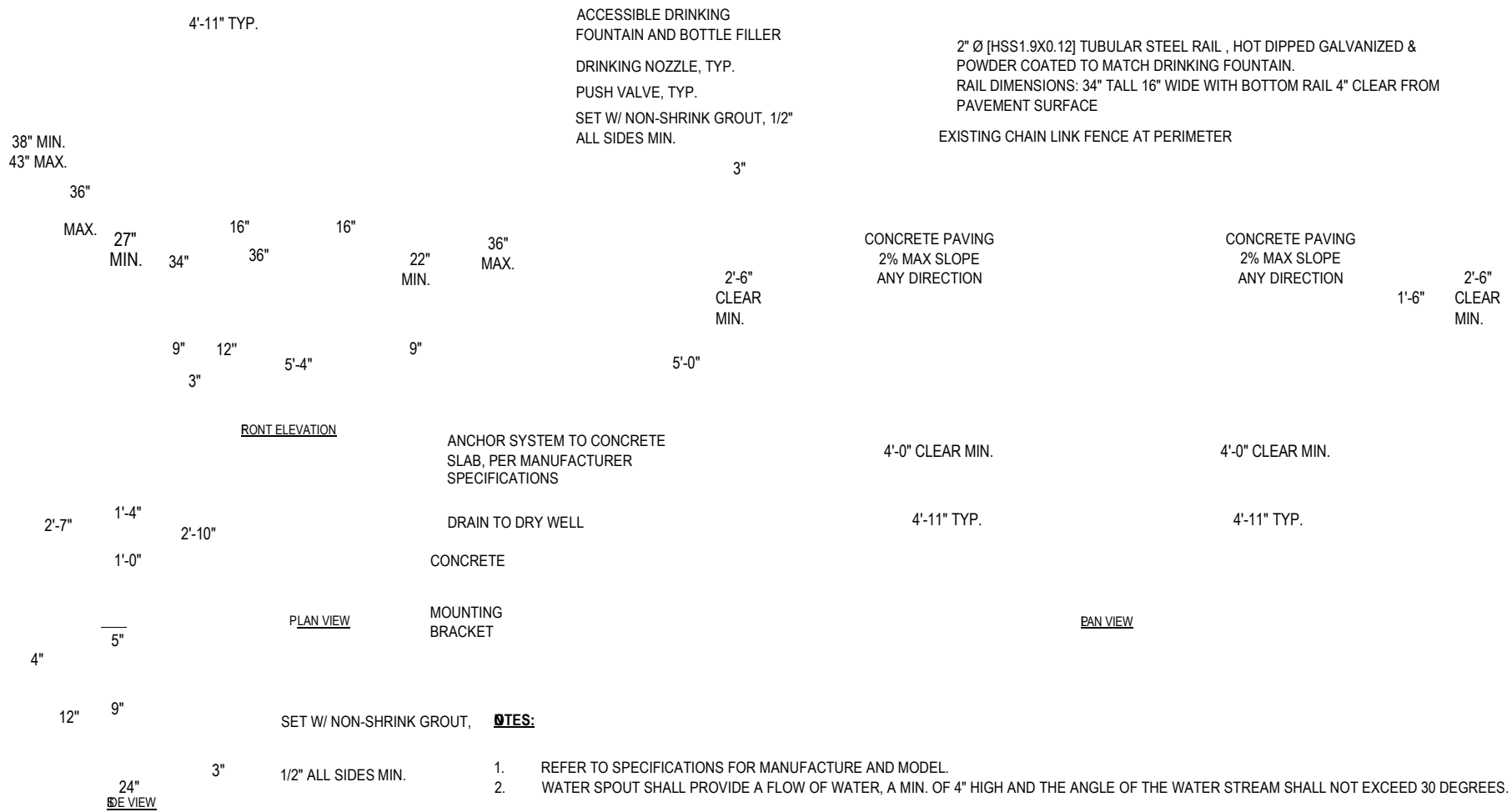
LLOYD

SPORTS + ENGINEERING

SURFACING AND FENCING DETAILS

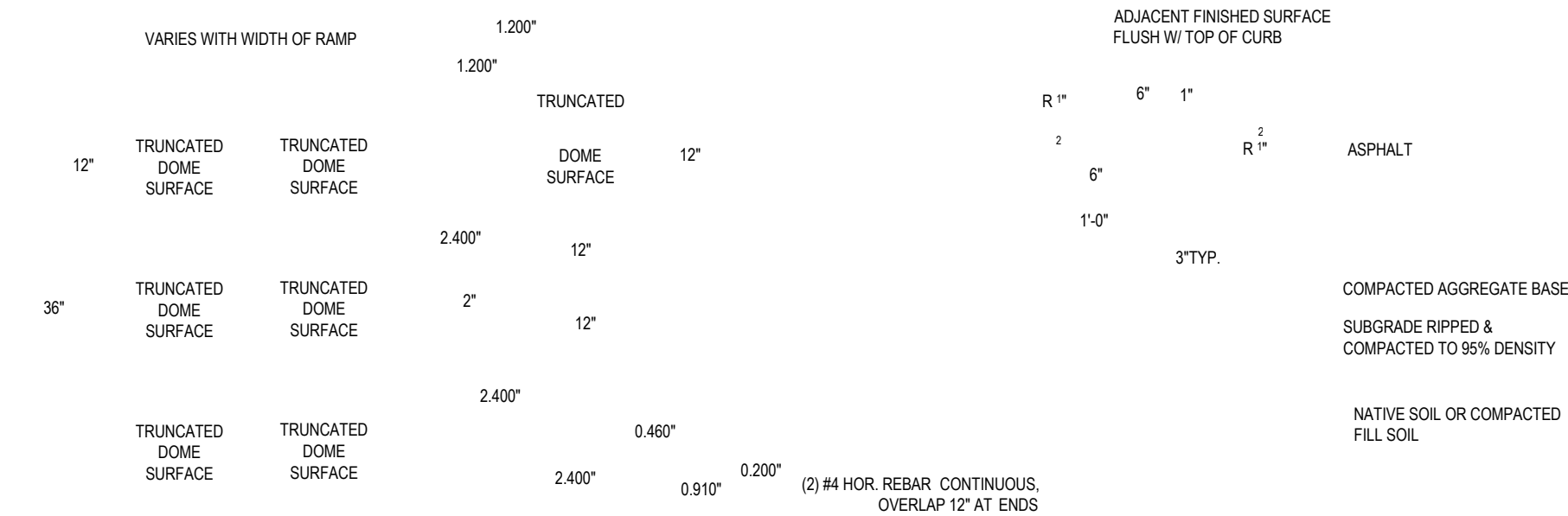
DWG. NO. C3-02

MOORPARK COLLEGE BEACH VOLLEYBALL COURTS



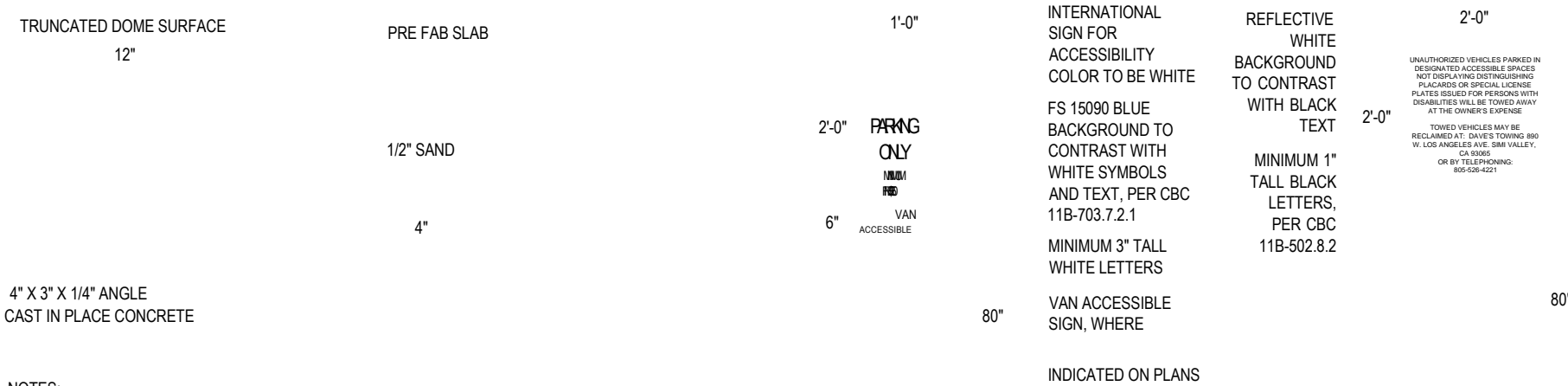
DRINKING FOUNTAIN / BOTTLE FILLING STATION & SIDE RAILS

SCALE: NTS



6. VERTICAL CONCRETE CURB

NTS



NOTES:

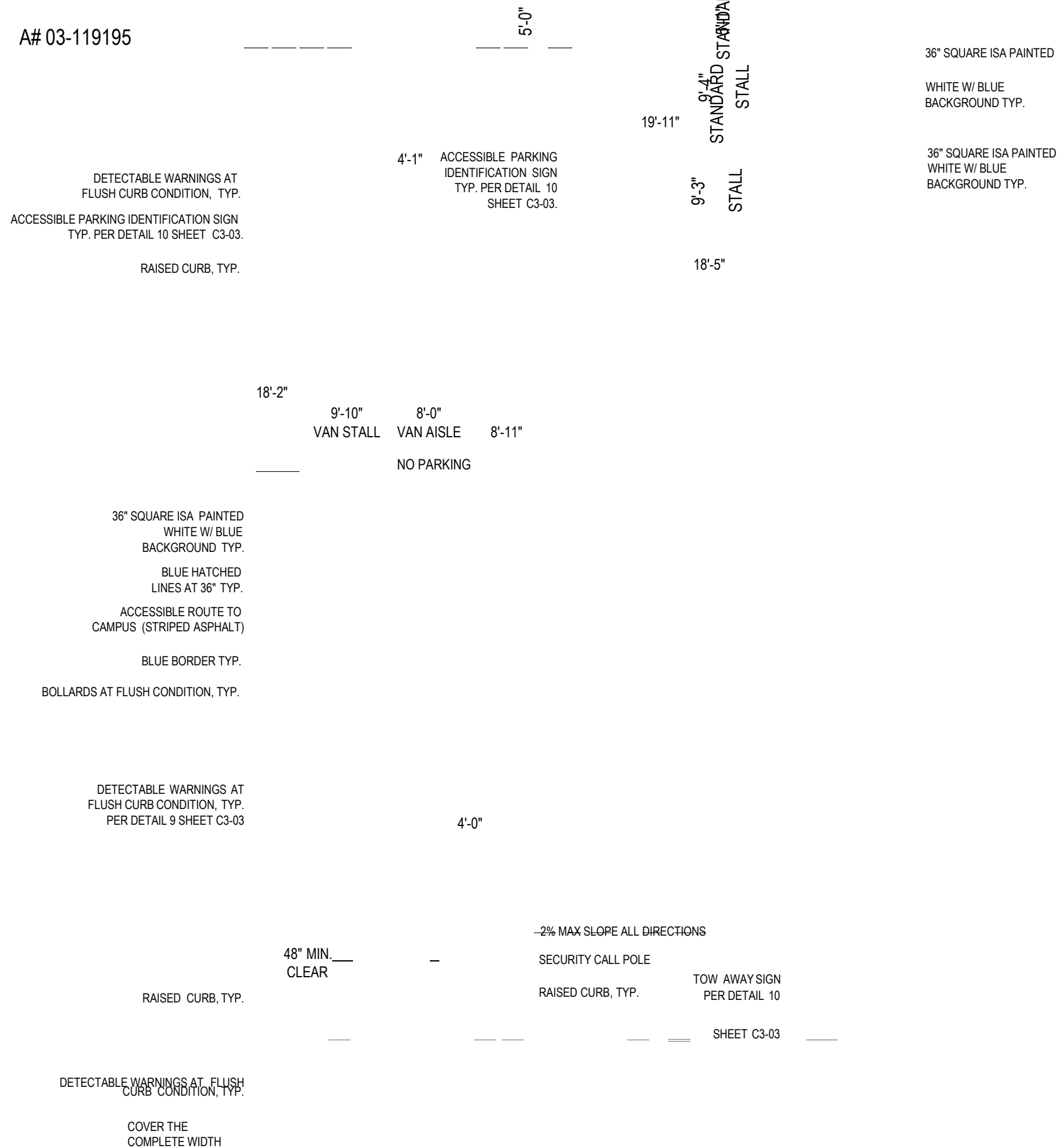
1. DETECTABLE WARNINGS SHALL CONSIST OF PRECAST CONCRETE DOMES MANUFACTURED BY WAUSAU TILE OR AN APPROVED EQUAL. DETECTABLE

WARNINGS SHALL BE INSTALLED IN THE RAMP IN ACCORDANCE WITH THE MANUFACTURE'S SPECIFICATIONS AND INSTALLATION INSTRUCTIONS.

2. ALL DETECTABLE WARNINGS SHALL BE 6 TO 8 INCHES BACK OF THE CURB LINE, BE 36 INCHES IN DEPTH AND



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DOCUMENTS

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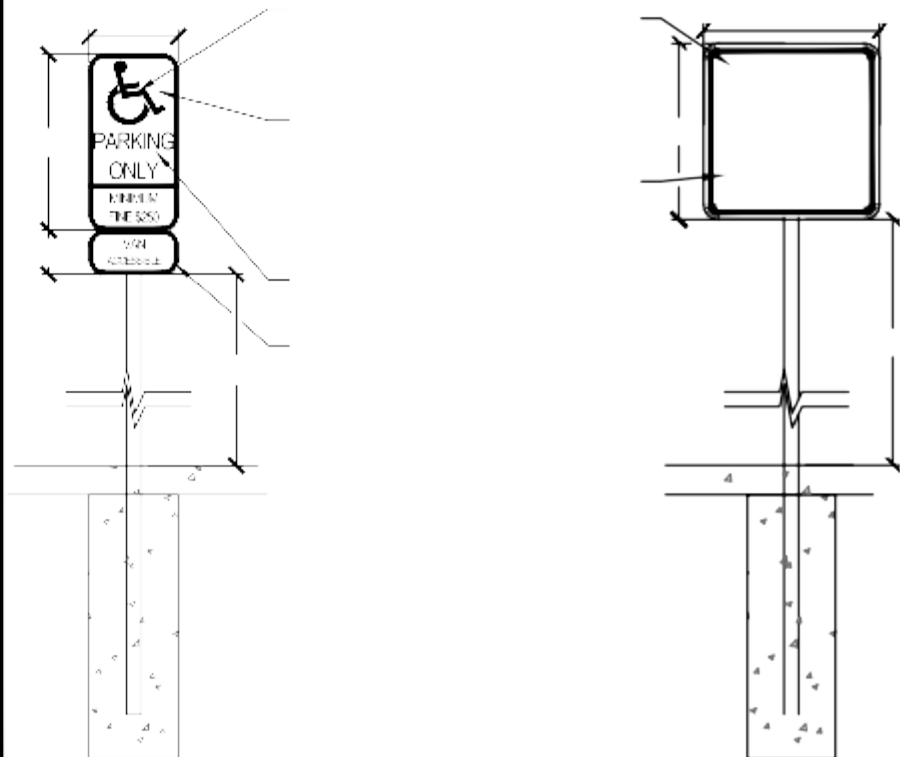
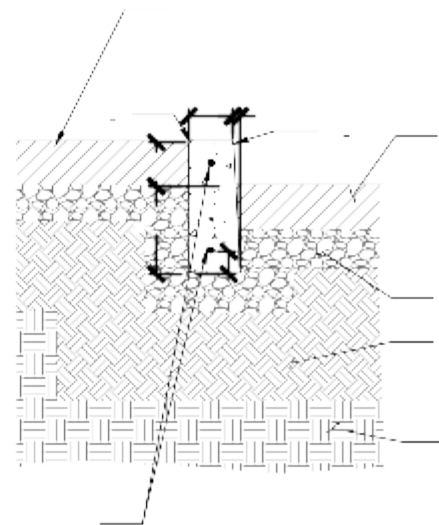
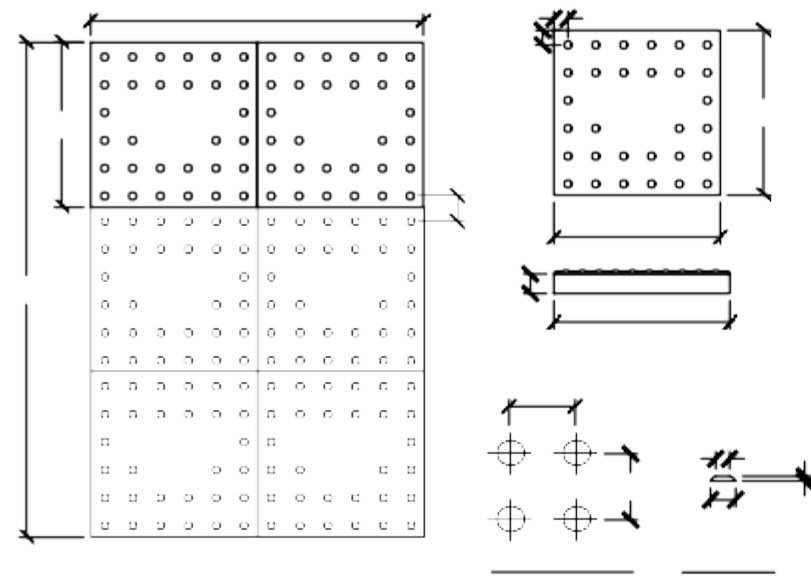
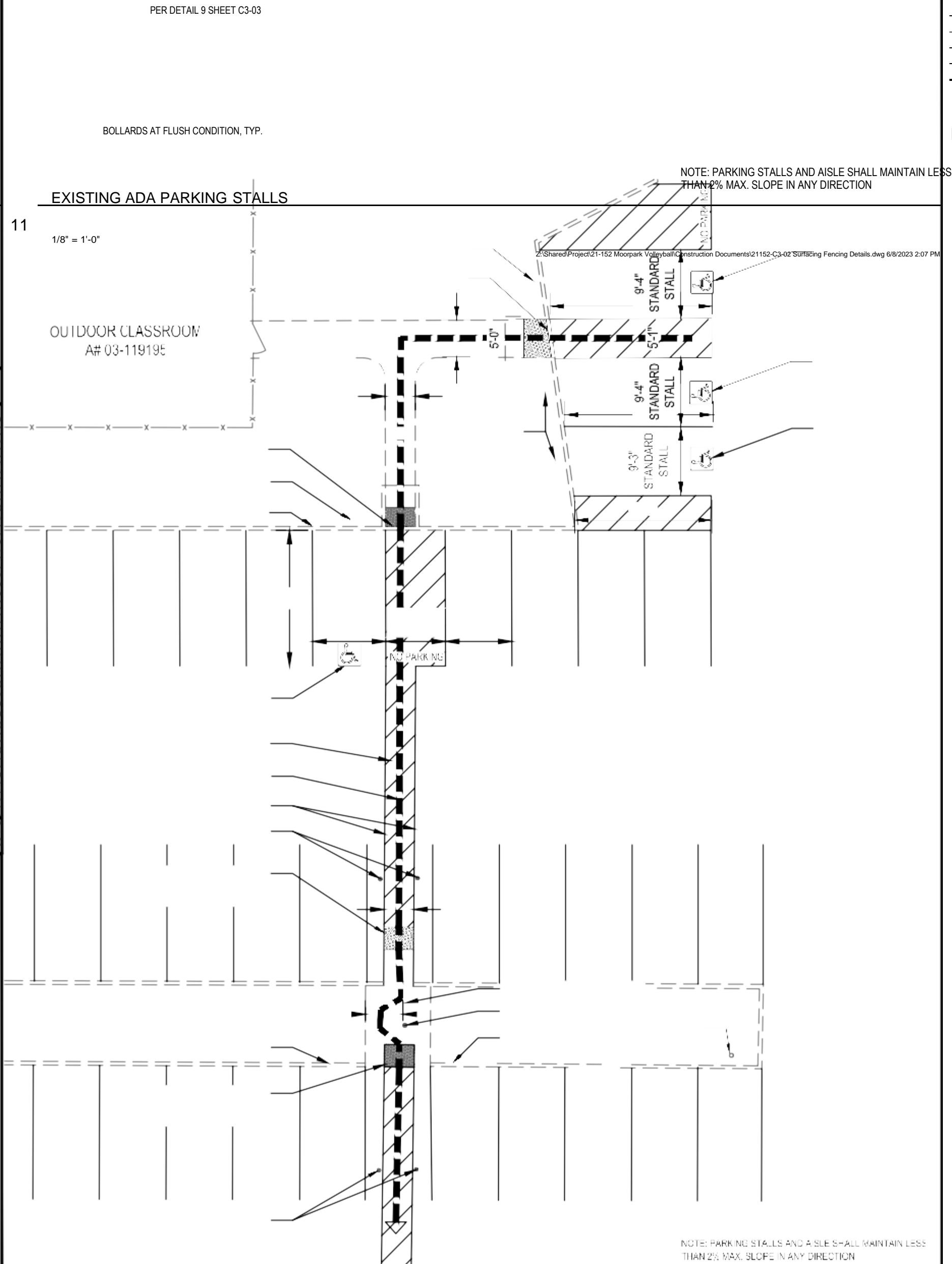
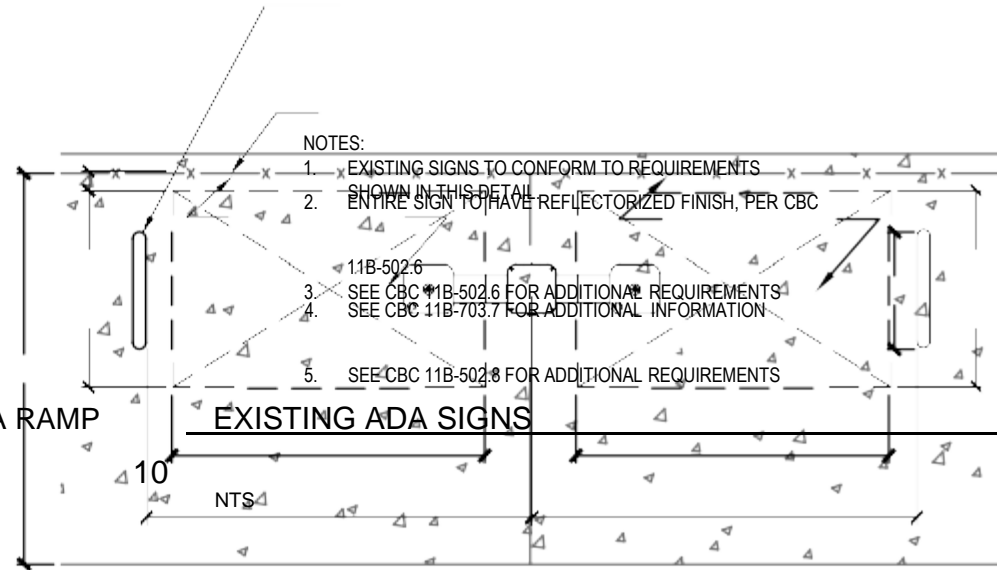
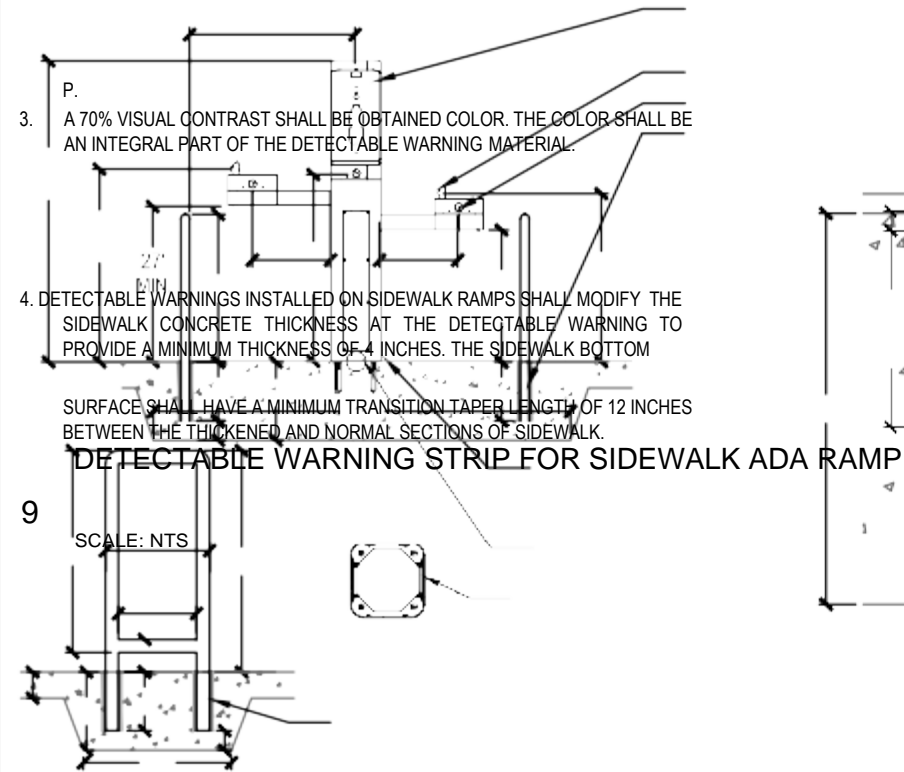
MOORPARK COLLEGE
BEACH VOLLEYBALL

COURTS

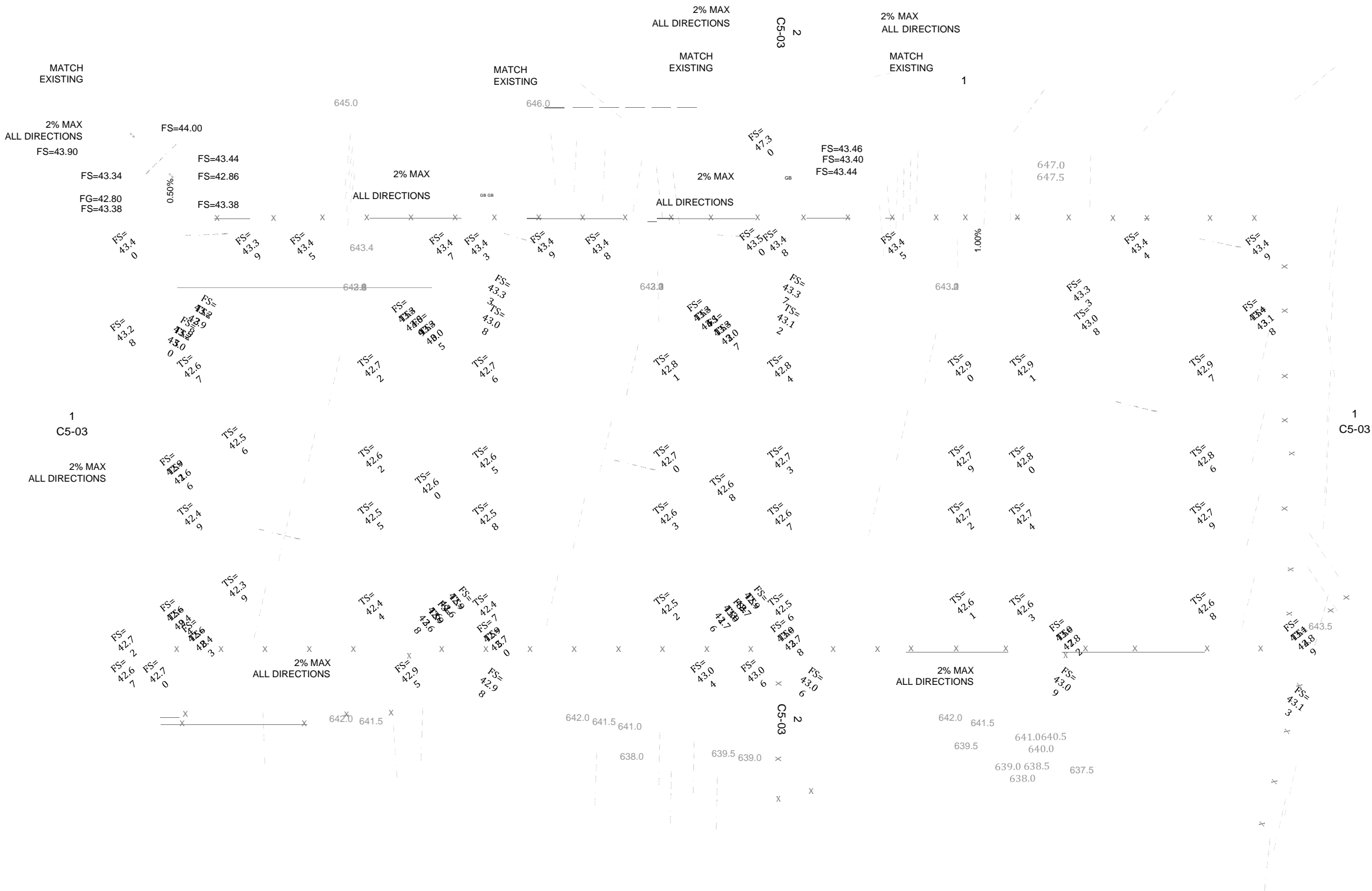
MOORPARK, CA

OF

THE
RAM



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GRADING LEGEND:

FG	FINISHED GRADE
FS	FINISHED SURFACE
TS	TOP OF SAND
	0.1' PROPOSED CONTOUR
GB GB GB	GRADE BREAK
0.51%	SLOPE ARROW (PERCENT)



7349 N. VIA PASEO DEL SUR
SUITE 515-324
SCOTTSDALE, ARIZONA 85258
PH 602.635.4226

GRADING NOTES:

1. TOP OF SAND ELEVATIONS TO BE SET 3" BELOW ADJACENT CONCRETE SIDEWALK.
2. ELEVATIONS SHOWN ARE FINISHED GRADE, CONTRACTOR TO ACCOUNT FOR SURFACING SUCH AS LANDSCAPE FINISHING MATERIAL AND HARDSCAPE WHEN GRADING SUBGRADE.
3. EARTHWORK TO BE PERFORMED IN ACCORDANCE WITH SPECIFICATIONS AND GEOTECHNICAL REPORT.

EARTHWORK NOTES:

	CUT	FILL
PROJECT EARTHWORK	2,714 CY	0 CY
TOTAL ESTIMATED EXPORT	2,714 CY	
COURT SAND IMPORT	2,023 CY	

- NOTES:
1. THE ENGINEER MAKES NO REPRESENTATION OR GUARANTEE REGARDING EARTHWORK QUANTITIES OR THAT THE EARTHWORK FOR THIS PROJECT WILL BALANCE DUE TO THE VARYING FIELD CONDITIONS, CHANGING SOIL TYPES, ALLOWABLE CONSTRUCTION TOLERANCES AND CONSTRUCTION METHODS THAT ARE BEYOND THE CONTROL OF THE ENGINEER.
 2. EARTHWORK QUANTITIES WERE CALCULATED USING EXISTING SURFACE ELEVATIONS AND PROPOSED SUBGRADE. IMPORTED MATERIALS FOR BASE OR SURFACING ARE NOT INCLUDED.
 3. EARTHWORK QUANTITIES DO NOT ACCOUNT FOR FOOTING AND FOUNDATION EXCAVATIONS, TRENCHING VOLUMES, OR RIP AND RE-COMPACT LOSSES.
 4. EARTHWORK QUANTITIES DO NOT ACCOUNT FOR SHRINK OR SWELL FACTORS.
 5. CONTRACTOR SHALL STOCKPILE EXPORT ON THE ADJACENT SITE AND AT A LOCATION ACCEPTABLE TO THE UNIVERSITY.
 6. VOLUME OF COURT SAND SHOWN IS FOR REFERENCE AND BUDGETARY PURPOSES ONLY. CONTRACTOR SHALL PERFORM THEIR OWN TAKE-OFFS TO DETERMINE QUANTITY OF COURT SAND REQUIRED FOR PROJECT.

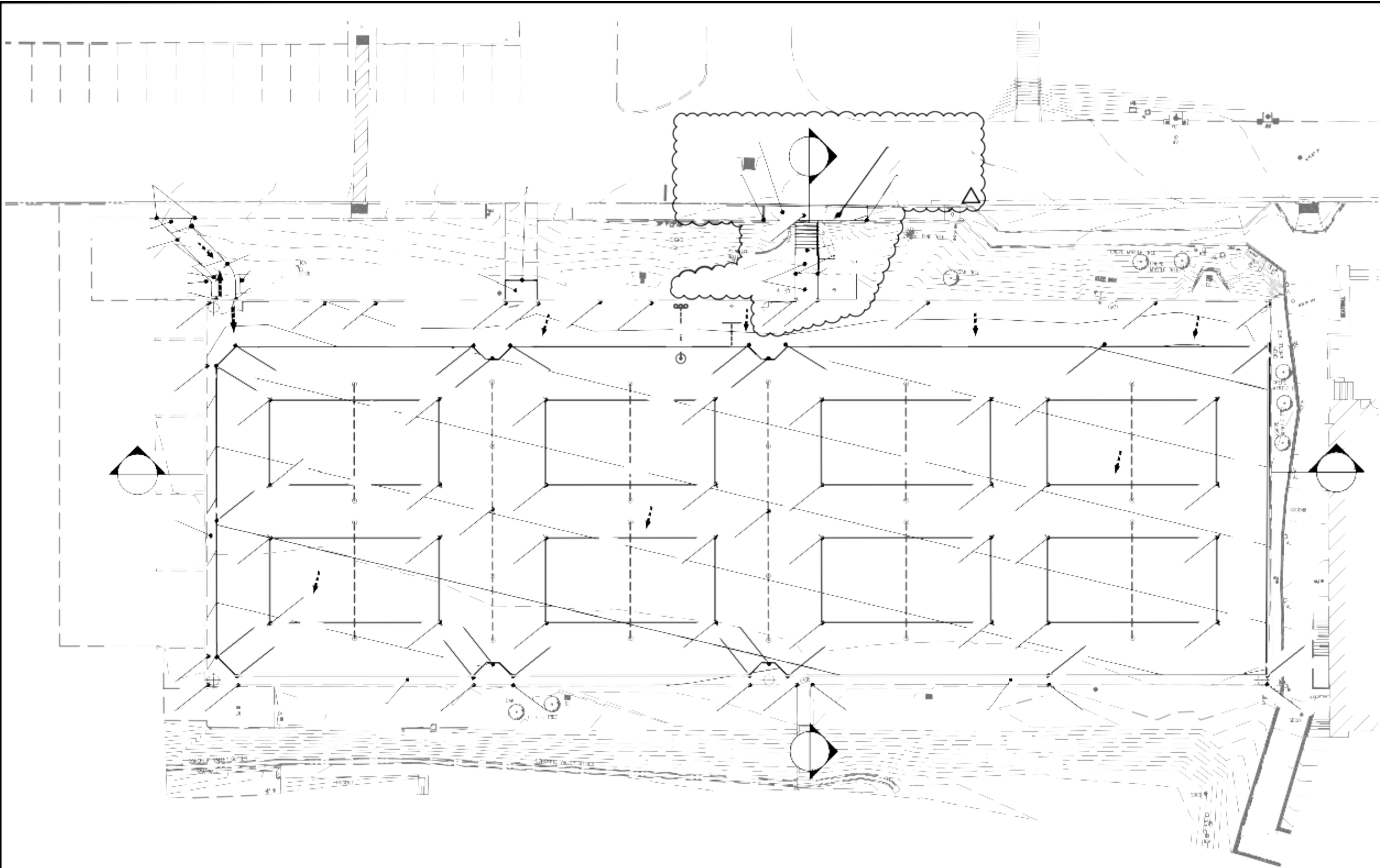
CONSTRUCTION DOCUMENTS

REV.		
ADDENDUM 1	6/9/23	

MOORPARK COLLEGE
BEACH/VOLLEYBALL
COURTS

DESIGNED:	BL
DATE:	APR 4, 2023
DRAWN:	TML
PROJ.	21-152
SCALE:	1" = 20'

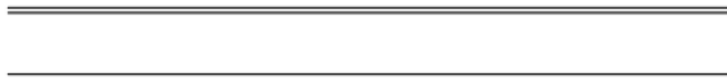
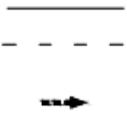
GRADING PLAN



SCALE: 1" = 20'

Feet

Z:\Shared\Project\21-152 Moorpark Volleyball\Construction Documents\21152-C5-01 Grading Plan.dwg 6/8/2023 1:28 PM



DWG. NO.

C5-01

MOORPARK COLLEGE BEACH VOLLEYBALL COURTS

2.5 CATCH BASINS AND DRAINS

- A. Catch Basins and Drains shall be Oldcastle precast drain structures.

2.6 TRENCH DRAINS

- A. Trench drain shall be ACO Klassik K100/KS100 with 4" internal width.
- B. In-line catch basin of drain shall include Trash Bucket.

2.7 NON-WOVEN GEOTEXTILE FILTER FABRIC

- A. Non-woven Geotextile Filter Fabric for subdrains drain shall be Tencate, Mirafi 140N, or approved equal.

2.8 WOVEN GEOTEXTILE LINER FABRIC

- A. Woven-geotextile fabric for structural soil support and liners shall be Tencate, Mirafi 600x, or approved equal.

2.9 SOLID PIPE BEDDING

- A. Solid drainpipe bedding shall be washed concrete sand per specification 31 23 33 Trenching & Backfill.

2.10 CRUSHED DRAIN STONE

- A. See Specification 31 23 33 Trenching & Backfill for more information.

2.11 MITERED END SECTIONS

- A. All mitered end sections shall be Drainage Solutions Inc. or approved equal.

PART 3 – EXECUTION

3.1 DELIVERY, STORAGE AND HANDLING

- A. Ship and transport all materials in a safe manner protecting from damage, corrosion, and wear.
- B. Offload all products with appropriate equipment and care preventing any damage.
- C. Store in a neat and orderly manner protected from elements to prevent damage, corrosion, or wear. Provide additional covering or conditioning as needed per manufacturer requirements.
- A. All aggregate material shall be shipped using clean trucks. Loads will be rejected if there is any foreign material.
- B. All aggregate materials shall be moisture conditioned to eliminate settlement during trucking or shipping to site.

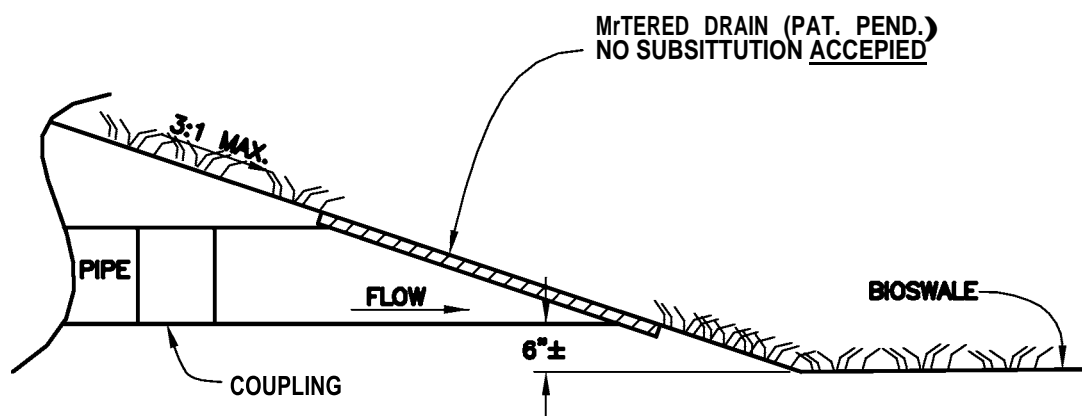
3.2 EXISTING CONDITIONS

- A. Examine the areas and conditions under which work of this Section will be performed. Correct conditions detrimental to timely and proper completion of the Work. Do not proceed until unsatisfactory conditions are corrected.
- B. Contractor shall verify existing invert elevations for storm drain construction prior to site work. Work for storm drain installation shall begin at downstream connection point. This will allow for necessary adjustments to be made prior to installation of entire line. If



(317) 346-4110

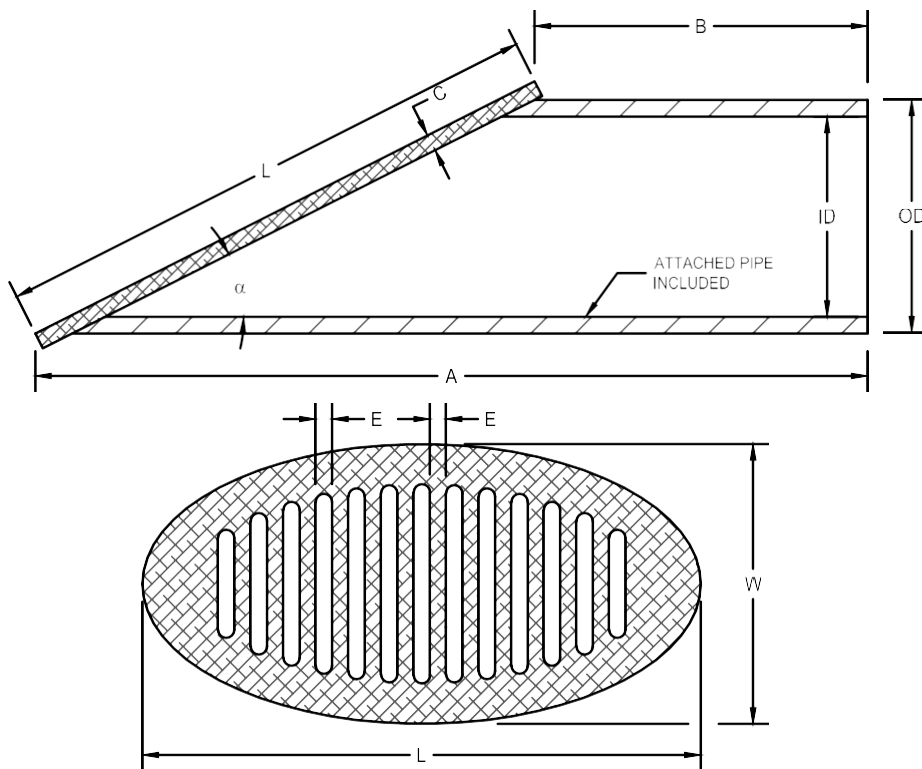
DRAINAGE www.drainagesolutionsinc.com
SOLUTIONS, INC



SFCDOH

MITERED DRAIN OUTLET DETAIL

NTS



**DRAINAGE
SOLUTIONS, INC**

(317) 346-4110
www.drainagesolutionsinc.com

Mitered Drain™ (pat. pending)

DIMENSION TABLE *

PIPE SIZE	SLOPE	MODEL NO.	GRATE MATERIAL	ATTACHED MITERED PIPE MATERIAL	A(in.)	B(in.)	C(in.)	ID(in.)	OD(in.)	E(in.)	L(in.)	W (in.)	α	APPROX. WEIGHT (lbs.)	AREA OF GRATE OPENING (sq. in.)
3"	3:1	3MD3P-G	GRAY HDPE	PVC Sch. 80	15	4	0.375	2.85	3.5	0.375	11.6	4.0	18.5°	2	10.4
3"	3:1	3MD3P-B	BLACK HDPE	PVC Sch. 80	15	4	0.375	2.85	3.5	0.375	11.6	4.0	18.5°	2	10.4
3"	3:1	3CMD3-GN	GREEN HDPE	PVC Sch. 40	14.7	3	NA	3.03	3.5	0.375	12.4	4.0	18.5°	1.4	9.85
4"	3:1	4MD3P-G	GRAY HDPE	PVC Sch. 80	18.5	4.5	0.375	3.77	4.5	0.375	14.7	5.0	18.5°	3.5	17.9
4"	3:1	4MD3P-B	BLACK HDPE	PVC Sch. 80	18.5	4.5	0.375	3.77	4.5	0.375	14.7	5.0	18.5°	3.5	17.9
4"	3:1	4CMD3-GN	GREEN HDPE	PVC Sch. 40	18.5	3.5	NA	3.99	4.5	0.375	15.6	5.0	18.5°	2.3	15.76
6"	3:1	6MD3P	GRAY HDPE	C900-CL 200	30	8	0.75	5.85	6.9	0.50	22.4	7.5	18.5°	13	41.9
8"	3:1	8MD3P	GRAY HDPE	C900-CL 150	43	14	0.75	7.97	9.1	0.75	29.3	9.7	18.5°	26	76.7
12"	3:1	12MD3P	GRAY HDPE	C900-CL 150	58	17	0.75	11.63	13.2	1.0	42.5	14	18.5°	66	165.1

* ALL DIMENSIONS ARE IN INCHES AND ALL WEIGHTS ARE IN POUNDS, AND MAY VARY.

BASIC SPECIFICATIONS

Brass grates are made of copper alloy No. 836.

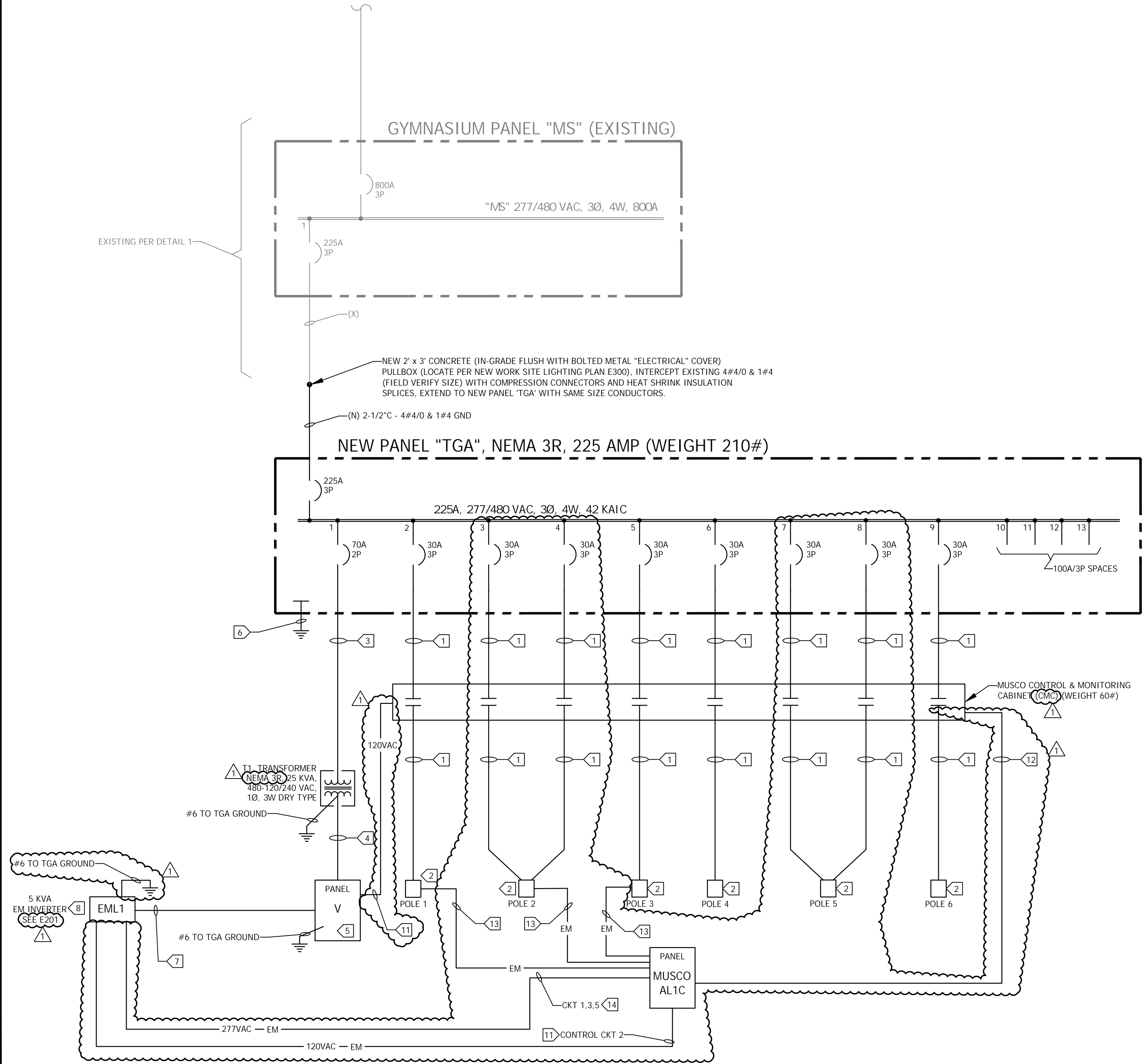
HDPE grates are made with UV inhibitor.

Set screws are type 18-8 stainless steel.

Not recommended for traffic loads. Made in the U.S.A.

TIME: 4:07 pm
DATE: 9 June 2023
PATHNAME: G:\22537\EL\Sheets
DRAWING FILENAME: 22-537E200
DRAFTER: CM01

ELECTRICAL ENGINEER HAS VERIFIED
EXISTING POWER SOURCE IS SUFFICIENT
FOR NEW PROJECT ELECTRICAL LOADS



REVISED ELECTRICAL SINGLE LINE DIAGRAM
SCALE: NONE SAND VOLLEYBALL COURTS

2
E200

KEY NOTES:

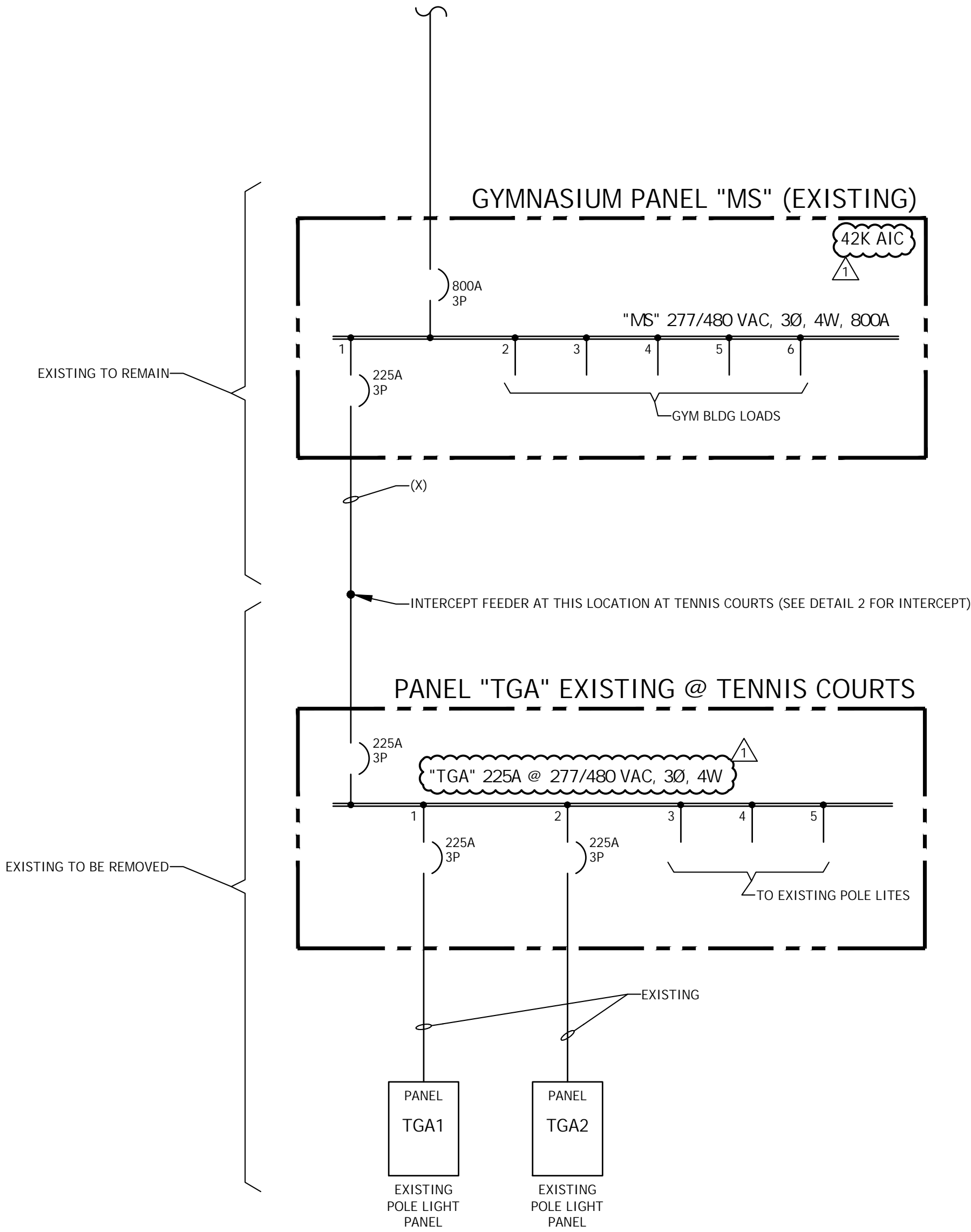
- 1" C 4#6 & 1#10 GND.
- MUSCO ELECTRICAL COMPONENTS ENCLOSURE MOUNTED ON POLE AT APPROXIMATELY 10'-0" AFF. FEEDER SHALL BE ROUTED INTERNAL TO POLE VIA UNDERGROUND CONDUIT ENTRY.
- 1" C - 2#4 & 1#6 GND.
- 1-1/2" C - 3#2/0 & 1#6 GND.
- SEE PANEL SCHEDULE PER E201.
- #2 UFER & 1#2 WITH 3/4" x 10'-0" GROUND ROD.
- 1" C - 2#4 & 1#10 GND.
- SEE MANUFACTURER SPEC SHEET E201 FOR TECHNICAL REQUIREMENTS/WEIGHT.
- 1" C - 2#10 & 1#10 GROUND TO EML1 VIA CONTACTORS IN MUSCO CONTROL & MONITORING CABINET.
- 1" C-2#6 & 1#10 GROUND.
- 1" C-2#12 & 1#12 GROUND.
- MULTIPLE CONDUITS:
 - 'S' 120VAC SIGNAL FROM EM TO E1 (NO CONTACTS) - 1" C-2#12 & 1#12 GROUND.
 - 'E1' 'NORMAL' POWER INPUT RELAY (120VAC NORMAL CONTROL POWER TO E1 COIL) - 1" C-2#12 & 1#12 GROUND.
 - 'E2' 'ZONE TRIGGER RELAY' 1" C-6#12 & 1#12 GROUND.
 - 'E6' 'CONTROL ON OFF RELAY' 1" C-6#12 & 1#12 GROUND.
- 1" C-2#10 & 1#10 GROUND.
- 1" C-6#10 & 1#10 GROUND.

MS LOAD SUMMARY CALCULATIONS

PANEL/LOAD	LOAD
MS	= 220 KVA
MS x 25%	= 55 KVA
VOLLEYBALL	= 40 KVA
TOTAL PROJECT LOAD (277/480 VAC)	= 315 KVA
IN AMPS AT 277/480 VAC, 3Ø, 4W	= 380 AMPS

SHEET NOTES:

- VERIFY LOCATION OF ALL BUILDINGS AND APPENDITURES ON ARCHITECTURAL AND CIVIL PLANS.
- CONTRACTOR SHALL VERIFY LOCATION & REQUIREMENTS OF ALL ELECTRICAL DEVICES PRIOR TO BID. ROUGH-IN & INSTALLATION.
- FIELD VERIFY LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO TRENCHING. SCHEDULE AND COORDINATE ALL SITE WORK WITH OWNER PRIOR TO ANY TRENCHING.
- SEE MUSCO PLANS FOR EQUIPMENT CONNECTIONS, EQUIPMENT PROVIDED, INSTALLATION, & PROGRAMMING REQUIREMENTS



EXISTING ELECTRICAL SINGLE LINE DIAGRAM
SCALE: NONE TENNIS COURTS

1
E200



7349 N. VIA PASEO DEL SUR
SUITE 515-324
SCOTTSDALE, ARIZONA 85258
PH 602.635.4226

LUCCI & ASSOCIATES INC.
CONSULTING ELECTRICAL ENGINEERS

3251 CORTE MALPASO, #511
CAMARILLO, CA 93012- 8094
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REV.

ADDENDUM 1 6/9/23

MOORPARK COLLEGE
BEACH VOLLEYBALL
COURTS

MOORPARK, CA

DESIGNED: KL
DATE: APRIL 4, 2023
DRAWN: LK / DS
PROJ. 22-537
SCALE: AS NOTED

SHEET TITLE
ELECTRICAL SINGLE
LINE AND PANEL
SCHEDULES

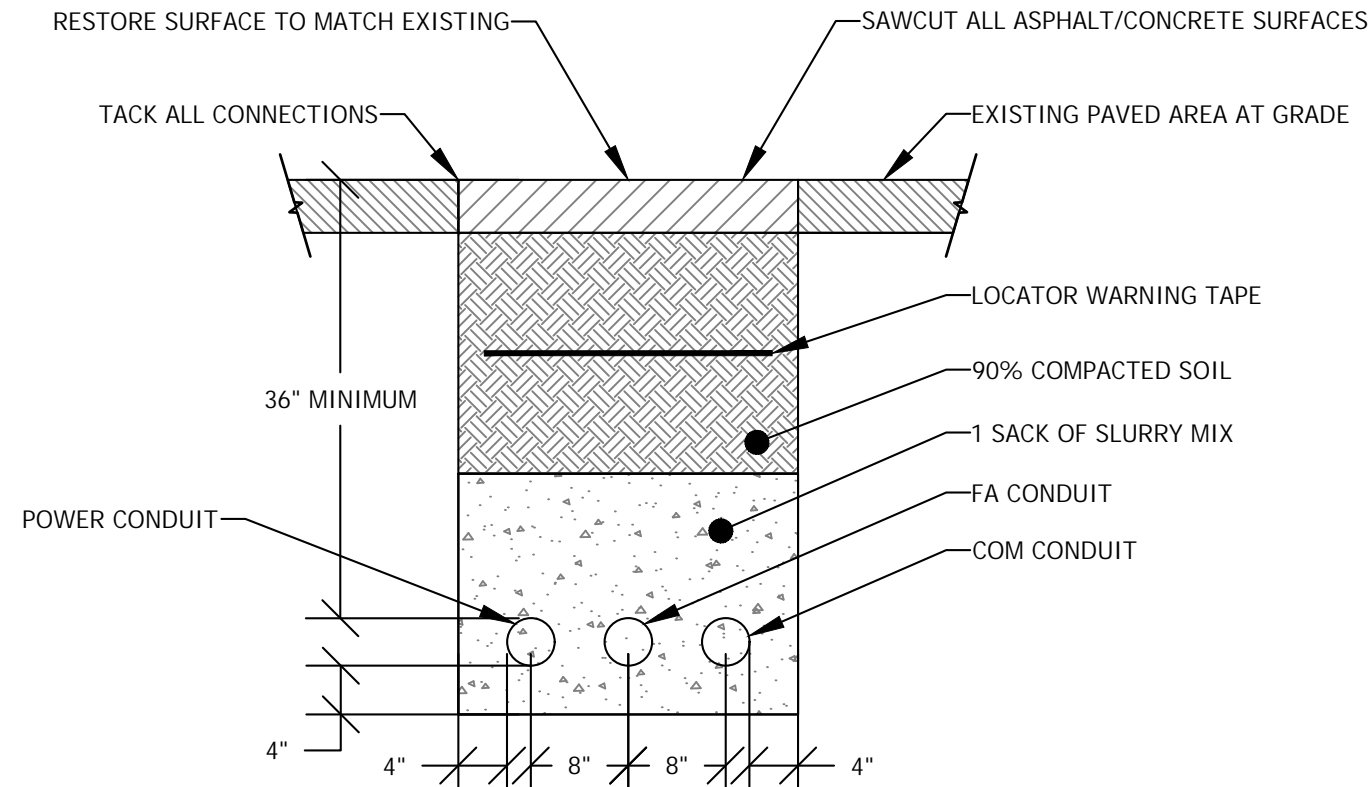
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E200

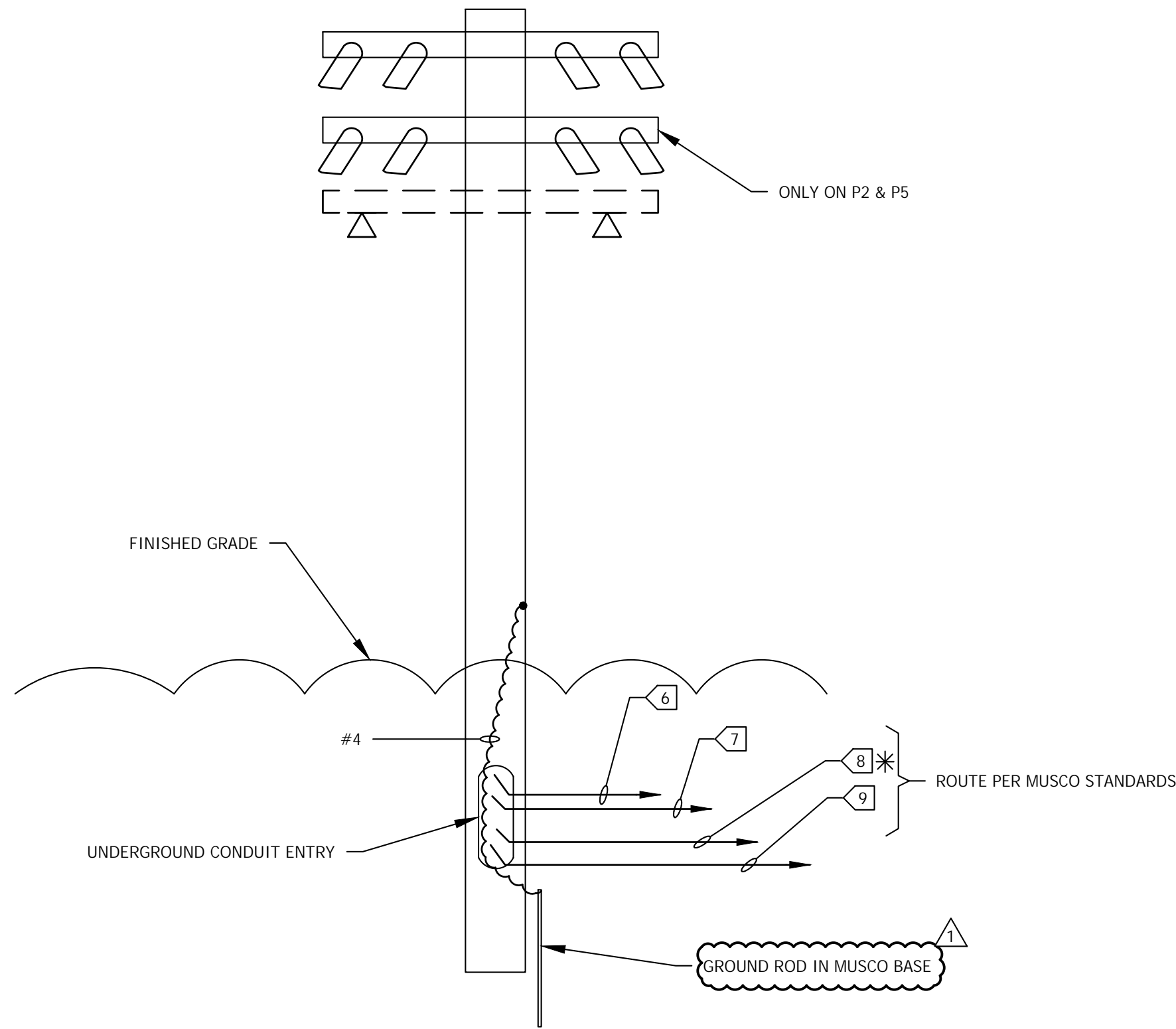
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DRAWING FILENAME: 22-537E300
DRAFTER: CM01
other than adding "as-built" information, are allowed by anyone other than authorized Lloyd Consulting Group, LLC employees.

DETAIL NOTES:

- ALL CONDUITS TO BE PROVIDED WITH METERED PULLWIRES THEIR ENTIRE LENGTH.
- ALL CONDUITS BENDS SHALL BE FACTORY BENDS WITH MINIMUM 12 TIMES DIAMETER. BEND RADIUS.
- ALL CONCRETE TO BE 5 SACK MIX OR 2000psi
- ALL FEEDERS TO BE PER ELECTRICAL SINGLE LINE SHEET E200.



DUCTBANK SECTION 3
SCALE: NONE



P1, P2, P3 LIGHT POLES
(* P2 & P5 HAVE (2) SET OF COURT FIXTURES WHICH EQUALES (2) SETS OF (8) 2
SCALE: NONE IDENTICAL TO P4, P5, P6 EXCEPT FOR (7) NOT PRESENT (7) ONLY PRESENT ON P1, P2, P3

SHEET NOTES:

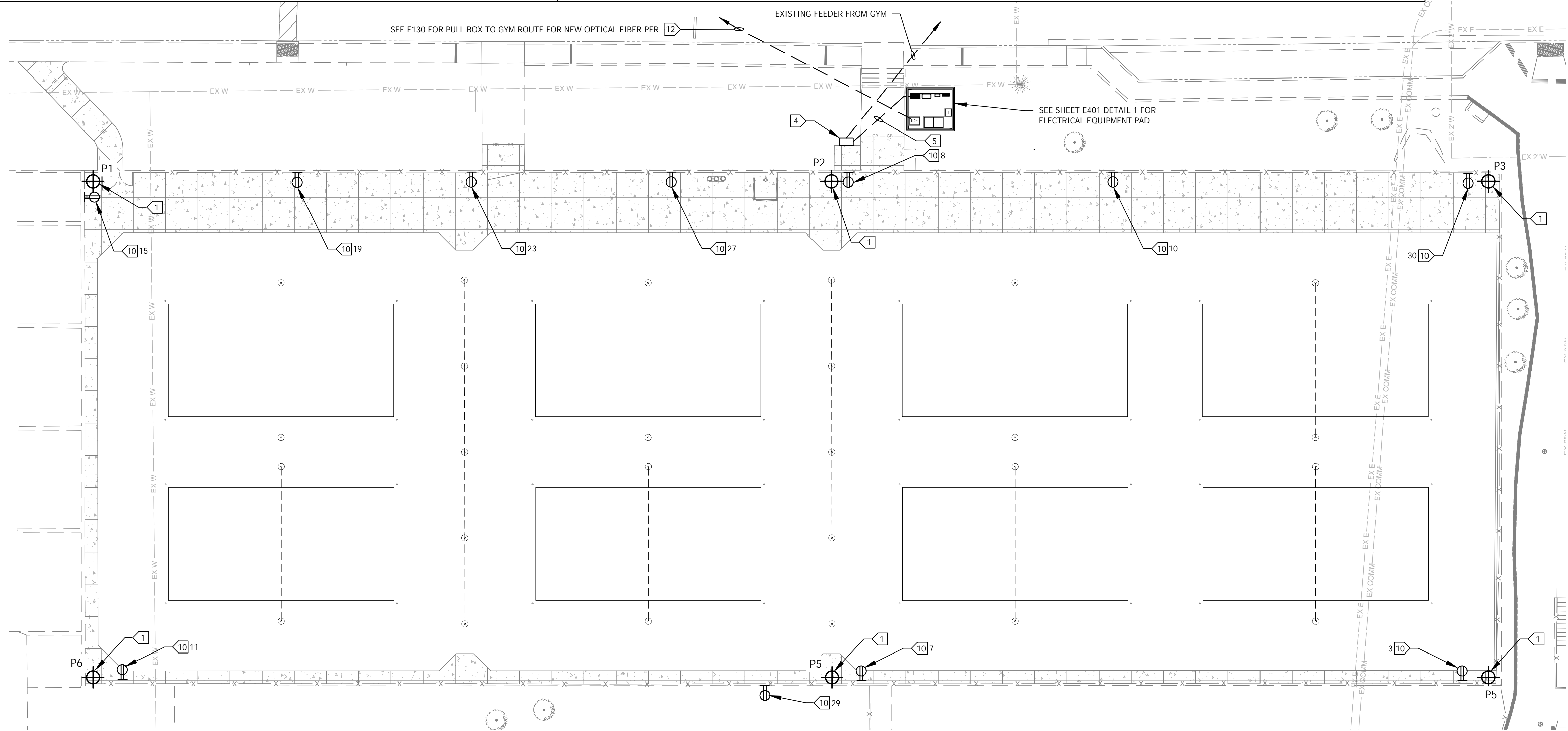
- CONTRACTOR SHALL VERIFY LOCATION, TRIM, AND REQUIREMENTS OF ALL LIGHT FIXTURES AND CONTROL PRIOR TO BID PROPOSAL, ROUGH-IN, AND FINISH INSTALLATION.
- CONTRACTOR SHALL, IN ROUTING ALL CIRCUITS, INCREASE CONDUCTOR & CONDUIT SIZE TO ALLOW FOR VOLTAGE DROP SHOULD THE CONTRACTOR EXCEED ROUTING INDICATED ON DRAWING. ENGINEER OF RECORD MUST BE NOTIFIED PRIOR TO ANY DEVIATIONS FROM APPROVED PLAN CHECK (PERMIT SET) DRAWINGS.
- CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES AS REQUIRED TO INSTALL CONDUCTORS PER CONDUCTOR MANUFACTURERS RECOMMENDATIONS, PER THE NATIONAL ELECTRICAL CODE AND PER LOCAL AUTHORITIES HAVING JURISDICTION.
- 3/4" CONDUIT MINIMUM UNLESS OTHERWISE NOTED, 1" MINIMUM UNDERGROUND.

KEY NOTES:

- MUSCO POLE (PROVIDED BY OTHERS) LOCATION: CONTRACTOR INSTALLED & CONNECTED PER MUSCO STANDARDS, SEE DETAIL 2 FOR CONNECTIONS
- BLEACHERS.
- NEW ELECTRICAL EQUIPMENT PAD BY CONTRACTOR. CONTRACTOR TO CONNECT ALL EQUIPMENT. CONTRACTOR TO PROVIDE AND CONNECT ALL EQUIPMENT, EXCEPT MUSCO WILL PROVIDE AL1C AND CONTROL AND MONITORING CABINET BUT CONTRACTOR TO INSTALL AND TERMINATE THESE ITEMS PER MUSCO STANDARDS.
- INTERCEPT PULL BOX PER E200 DETAIL 2.
- NEW FEEDER PER E200.
- 1" C-2 CAT6 WET LOCATION FOR FROM CAMERA TO IDF.
- 1" C-2 #10 & 1 #10 GROUND TO EML1 VIA AL1C CONTROLS FOR EM FIXTURE, ONE CIRCUIT PER EACH POLE PER E201 PANEL SCHEDULE
- POWER TO POLE VIA E200 1" C-4 #6 & 1 #10 GROUND.
- 1" C.O. SPARE TO ELECTRICAL EQUIPMENT PAD.
- WP GFCI HOME RUN TO PANEL 'V', 1" C-2 #10 & 1 #10 GROUND (CIRCUIT AS NOTED).
- 1" C.O. SPARE TO PANEL 'V' FROM 12"x18" LANDSCAPE BOX. PROVIDE PULL STRING.
- 1" C-6 STRAND MULTI MODE WET LOCATION OPTICAL FIBER TO GYM MDF. TERMINATE PER COLLEGE STANDARDS AT GYM MDF & VOLLEYBALL IDF. VOLLEYBALL IDF SHALL PROVIDED WITH 24 PORT SWITCH, FAN, POWER DISTRIBUTION, GROUND BUS.

P1, P2, & P3 HAVE EM LIGHTING

SEE E600 FOR DUCT BANK SECTION FOR ALL UNDERGROUND CONDUITS SYSTEMS



POWER & LIGHTING PLAN 1
SCALE: 1"=15'-0"



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SUITE 515-324
SCOTTSDALE, ARIZONA 85258
PH 602.635.4226

LLOYD & ASSOCIATES INC.
CONSULTING ELECTRICAL ENGINEERS

3251 CORTE MALPASO, #511
CAMARILLO, CA 93012-8094
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ADDENDUM 1	6/9/23	

MOORPARK COLLEGE
BEACH VOLLEYBALL
COURTS

DESIGNED:	KL
DATE:	APRIL 4, 2023
DRAWN:	LK / DS
PROJ.	22-537
SCALE:	AS NOTED

SHEET TITLE
POWER & LIGHTING
PLAN

DWG. NO.

E300

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TIME: 4:08 pm

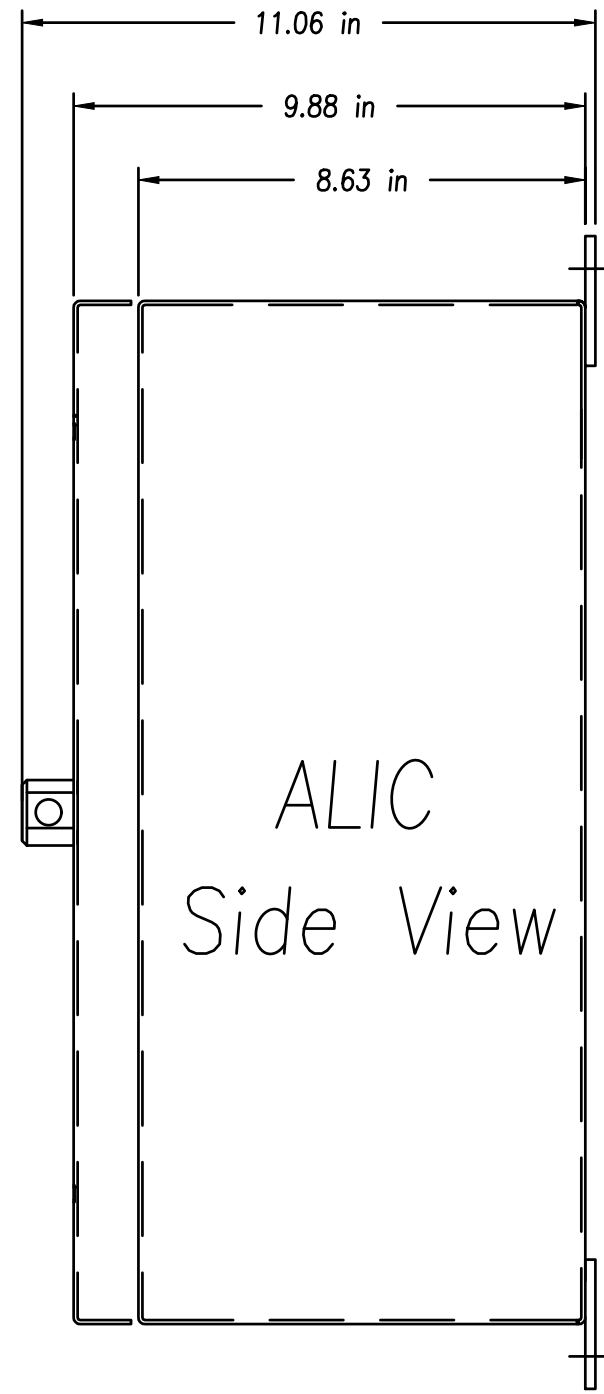
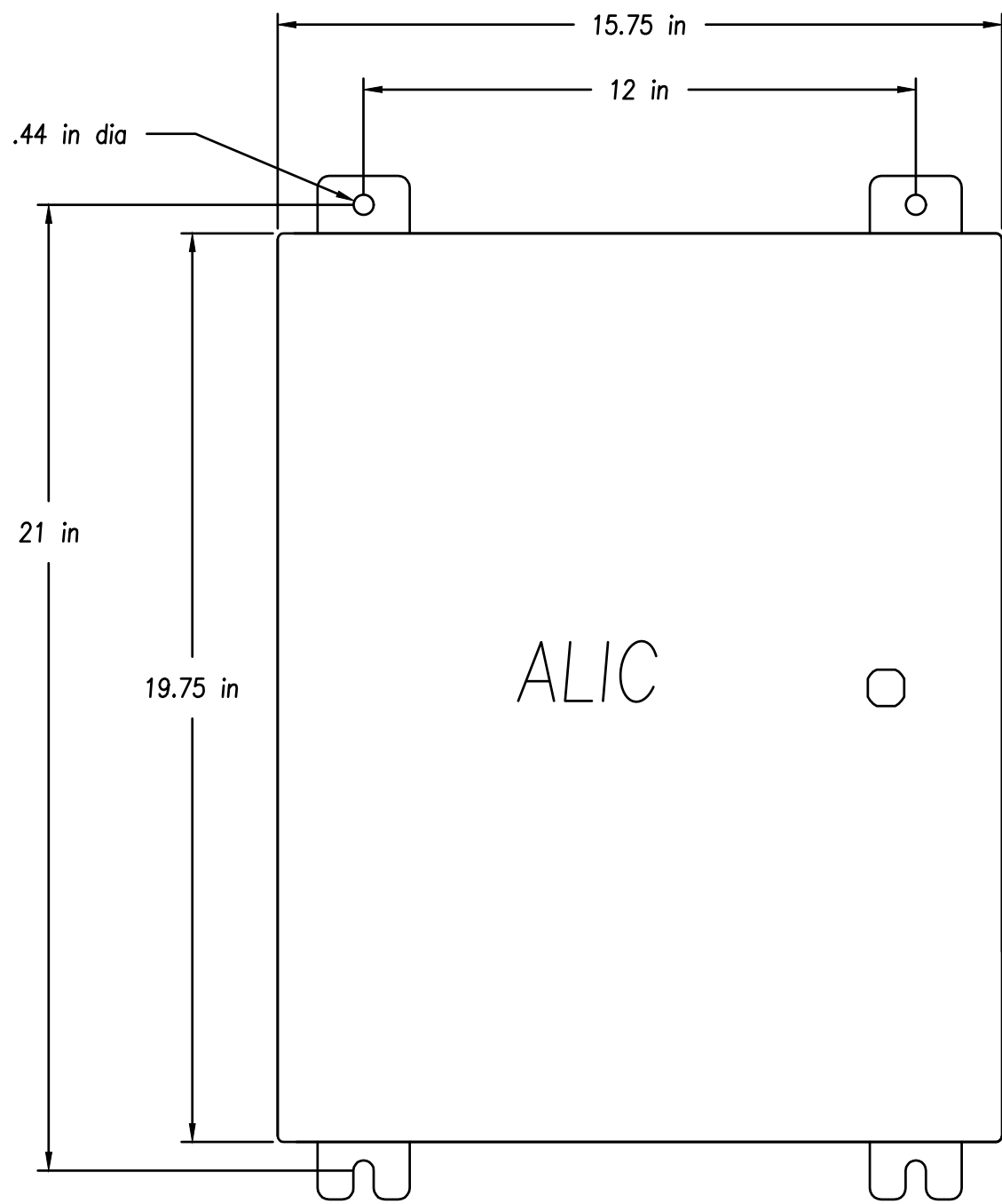
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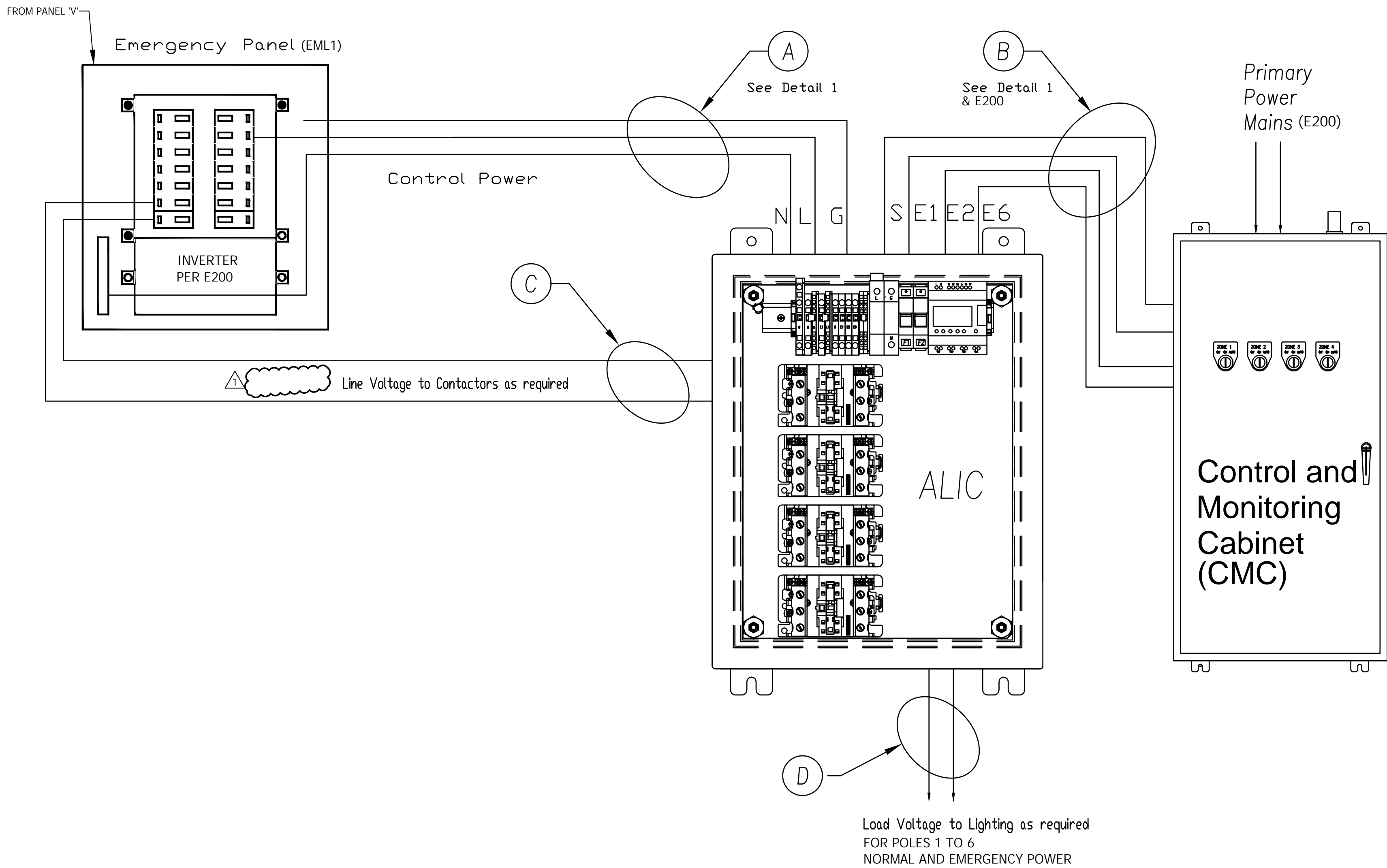


MUSCO:
Auxiliary Lighting Interface Cabinet (ALIC)
Standard Operation and Functionality

Functionality
The ALIC (UL924) provides monitoring of Controls and Monitoring Cabinet zones and primary 120V power. For the ALIC to work correctly, it and the emergency lighting fixtures will need to be powered from an Emergency Distribution Panel. This Emergency Distribution Panel is assumed to be powered from a UPS or automatic transfer switch, whose operation is to control the power source, either the generator or the mains.

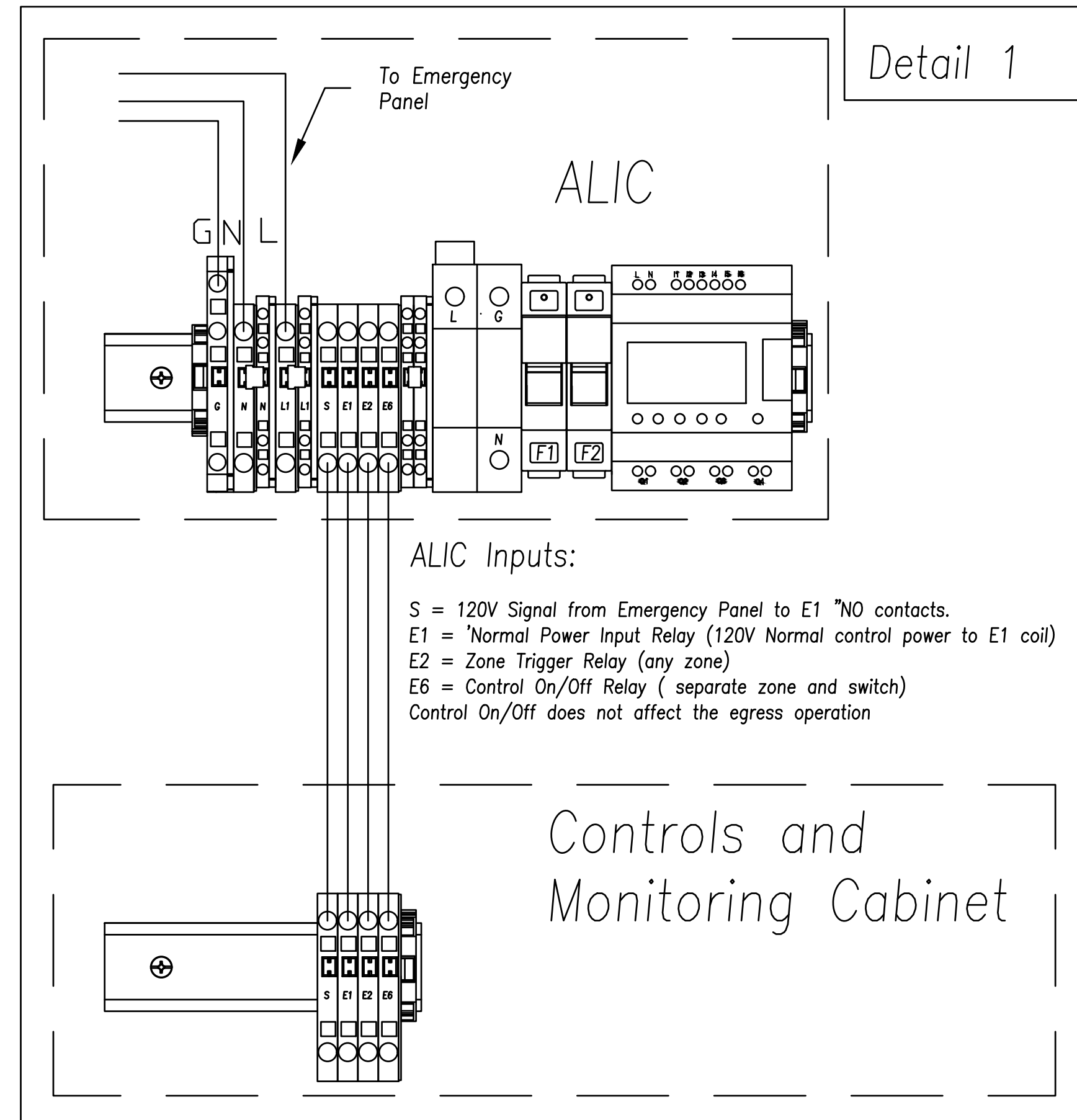
IMPORTANT: The 120 volt power (wire E1) from the Controls Monitoring Cabinet is being monitored as the mains or normal power. For best operation, the Controls and Monitoring Cabinet should be powered from the field lighting distribution panel or what is to be considered the main distribution panel.

- Standard sequence of egress operation
- 1) The ALIC sends 120V over the S wire to the normally open (N.O.) contacts of the E1, E2 and E6 (if present) relays in the CMC.
 - a) E1 is connected to the control circuit of the CMC to monitor Normal Power.
 - b) E2 is connected to the monitored zone(s) to monitor when the zone(s) is on
 - c) E6 is connected to the override zone if present. This zone can manually turn on or schedule the egress fixture. The manually override does not affect the egress operation
 - 2) Normal power (the mains) has an interruption, either sustained or momentary.
 - 3) E1 opens it's contacts cutting the monitored normal power input from the ALIC.
 - 4) The ALIC checks the monitored zone input from E2.
 - a) If the input was present the ALIC will output for egress. The ALIC will continue to output as long as the backup system provides power. Once normal power is restored and the ALIC receives an input from E1 the ALIC will delay off the egress output for 20min.
 - b) If the input was not present the ALIC will not output for egress



Contractor Notes:

Contractor is responsible for providing (A,B,C,D) cables and installation of cables from emergency panel to ALIC and from ALIC to Controls and Monitoring Cabinet.



ALIC Inputs:

- S = 120V Signal from Emergency Panel to E1 "NO" contacts.
E1 = Normal Power Input Relay (120V Normal control power to E1 coil)
E2 = Zone Trigger Relay (any zone)
E6 = Control On/Off Relay (separate zone and switch)
Control On/Off does not affect the egress operation



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REV.
ADDENDUM 1 6/9/23

MOORPARK COLLEGE
BEACH VOLLEYBALL
COURTS

DESIGNED:	KL
DATE:	APRIL 4, 2023
DRAWN:	LK / DS
PROJ.	22-537
SCALE:	AS NOTED

SHEET TITLE
MUSCO CONTROL
SYSTEM SUMMARY

DWG. NO.
E302

2.5 CATCH BASINS AND DRAINS

- A. Catch Basins and Drains shall be Oldcastle precast drain structures.

2.6 TRENCH DRAINS

- A. Trench drain shall be ACO Klassik K100/KS100 with 4" internal width.
- B. In-line catch basin of drain shall include Trash Bucket.

2.7 NON-WOVEN GEOTEXTILE FILTER FABRIC

- A. Non-woven Geotextile Filter Fabric for subdrains drain shall be Tencate, Mirafi 140N, or approved equal.

2.8 WOVEN GEOTEXTILE LINER FABRIC

- A. Woven-geotextile fabric for structural soil support and liners shall be Tencate, Mirafi 600x, or approved equal.

2.9 SOLID PIPE BEDDING

- A. Solid drainpipe bedding shall be washed concrete sand per specification 31 23 33 Trenching & Backfill.

2.10 CRUSHED DRAIN STONE

- A. See Specification 31 23 33 Trenching & Backfill for more information.

2.11 MITERED END SECTIONS

- A. All mitered end sections shall be Drainage Solutions Inc. or approved equal.

PART 3 – EXECUTION

3.1 DELIVERY, STORAGE AND HANDLING

- A. Ship and transport all materials in a safe manner protecting from damage, corrosion, and wear.
- B. Offload all products with appropriate equipment and care preventing any damage.
- C. Store in a neat and orderly manner protected from elements to prevent damage, corrosion, or wear. Provide additional covering or conditioning as needed per manufacturer requirements.
- A. All aggregate material shall be shipped using clean trucks. Loads will be rejected if there is any foreign material.
- B. All aggregate materials shall be moisture conditioned to eliminate settlement during trucking or shipping to site.

3.2 EXISTING CONDITIONS

- A. Examine the areas and conditions under which work of this Section will be performed. Correct conditions detrimental to timely and proper completion of the Work. Do not proceed until unsatisfactory conditions are corrected.
- B. Contractor shall verify existing invert elevations for storm drain construction prior to site work. Work for storm drain installation shall begin at downstream connection point. This will allow for necessary adjustments to be made prior to installation of entire line. If

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DEMOLITION NOTES

- THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BID SUBMITTAL IN ORDER TO DETERMINE THE EXTENT AND CONDITIONS OF SITE DEMOLITION AND TO FIELD VERIFY SITE CONDITIONS. THE CONTRACTOR SHALL NOTIFY THE OWNER OF ANY DISCREPANCIES PRIOR TO BID.
- THE CONTRACTOR SHALL PERFORM ALL CLEARING, DEMOLITION AND REMOVAL SITE PREPARATIONS NECESSARY FOR THE EXECUTION OF THE WORK CONTAINED IN THE CONTRACT DOCUMENTS.
- EXISTING STORM DRAIN FACILITIES WITHIN THE LIMITS OF CONSTRUCTION SHALL BE PROTECTED FROM CONSTRUCTION DEBRIS INTRUSION. THE CONTRACTOR SHALL FLUSH AND CLEAN EXISTING DRAINAGE SYSTEMS THAT ARE TO BE PROTECTED IN PLACE, WITHIN THE PROJECT LIMITS, TO THE POINT OF DISCHARGE. ALL CLEANING OF SITE AND DRAINAGE SYSTEMS SHALL MEET ALL CALIFORNIA SAFETY AND WATER QUALITY REQUIREMENTS SET BY THE STATE BOARD OF WATER RESOURCES.
- THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL UTILITIES, STRUCTURES, AND SERVICES BEFORE COMMENCING WORK. CONTRACTOR IS RESPONSIBLE FOR POT-HOLING AND UTILITY SURVEYS AS NECESSARY TO LOCATE EXISTING UTILITIES.
- THE CONTRACTOR SHALL PROVIDE ALL NECESSARY BMP's AND PROTECTIONS TO DRAINS AND DRAINAGE SYSTEMS AS REQUIRED BY THE PROJECT SWPPP DOCUMENTS AND CALIFORNIA STATE WATER RESOURCES CONTROL BOARD PRIOR TO COMMENCING DEMOLITION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING OR REPLACING ANY EXISTING ITEMS DAMAGED OR DESTROYED BY CONSTRUCTION NOT IDENTIFIED FOR DEMOLITION OR REMOVAL. REPLACEMENT OR REPAIRS SHALL BE AT THE CONTRACTOR'S EXPENSE AND ITEM RESTORED TO EQUAL OR BETTER CONDITION.
- THE CONTRACTOR SHALL PROVIDE NECESSARY MEASURES TO CONTROL DUST AND SEDIMENT PER THE SWPPP DOCUMENTS AND AS REQUIRED BY THE STATE.
- CONTRACTOR MUST REMOVE AND DISPOSE OF ALL WEEDS, AND LOOSE MATERIALS.
- CONTRACTOR IS RESPONSIBLE FOR MAINTAINING IRRIGATION WATER SERVICE AND AUTOMATIC CONTROL WIRE CONNECTIONS TO EXISTING LANDSCAPE MATERIAL TO REMAIN AND TO ADJACENT FIELDS BOTH DURING AND AFTER CONSTRUCTION.
- THE CONTRACTOR MUST PROTECT IN PLACE ALL EXISTING UTILITIES.
- THE CONTRACTOR IS RESPONSIBLE FOR REPAIR OR REPLACEMENT OF UTILITIES DAMAGED DURING CONSTRUCTION.
- REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION REGARDING DEMOLITION.
- CONTRACTOR SHALL NOTIFY USA 800-227-2600 PRIOR TO ANY DEMOLITION OR EXCAVATION.
- SPRINKLER HEADS AND VALVES REMOVED DURING DEMOLITION ARE TO BE SALVAGED AND RETURNED TO OWNER. ANY EQUIPMENT DEEMED UNSALVAGEABLE BY THE OWNER MUST BE DISPOSED OF BY THE CONTRACTOR. DO NOT RE-INSTALL OR RELOCATED ANY EXISTING SPRINKLER HEADS, VALVES, REMOTE CONTROL VALVES, WIRE OR ANY PIPE FROM DESIGNATED DEMOLITION AREAS.

SURFACING NOTES:

- THE CONTRACTOR SHALL VERIFY CRITICAL DIMENSIONS, REFERENCE POINTS AND BENCHMARKS AND NOTIFY THE OWNER PRIOR TO PLACEMENT OF CONCRETE AND PERMANENT ITEMS.
- THE CONTRACTOR SHALL COORDINATE ALL CONSTRUCTED ELEMENTS INCLUDING UTILITY LOCATIONS AND REQUIRED SLEEVING PRIOR TO INSTALLATION OF SURFACING MATERIALS.
- TRANSITIONS IN BETWEEN PROPOSED IMPROVEMENTS TO THE EXISTING SITE SHALL CONFORM AND BE SMOOTH AND UNIFORM.
- CONCRETE FINISHES SHALL BE AS NOTED AND SPECIFIED. THE CONTRACTOR SHALL PROVIDE MOCKUPS OF ALL FINISHES OF CONCRETE PER THE SPECIFICATIONS. REFER TO SURFACING PLANS AND DETAILS FOR JOINT SPACING.
- THE CONTRACTOR SHALL PROVIDE A SHOP DRAWING OF THE CONCRETE JOINTS FOR REVIEW PRIOR TO PREPARATION OF MOCKUP OR INSTALLING CONCRETE PAVING.
- CONTRACTOR SHALL VERIFY THAT FENCE POST LOCATIONS PRIOR TO INSTALLATION OF POSTS OR FOOTINGS AND NOTIFY THE OWNER, ENGINEER OR LANDSCAPE ARCHITECT OF ANY POTENTIAL MISALIGNMENT OR CLEARANCE ISSUES.
- ALL CONCRETE SHALL BE PORTLAND CEMENT CONCRETE WITH MINIMUM 3000 PSI STRENGTH PER THE SPECIFICATIONS.

DRAINAGE NOTES:

- THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES, STRUCTURES, AND SERVICES BEFORE COMMENCING WORK. THE LOCATIONS OF UTILITIES, STRUCTURES, AND SERVICES SHOWN IN THE CONTRACT DOCUMENTS SHALL BE DEEMED TO BE APPROXIMATIONS ONLY. ALL DISCREPANCIES BETWEEN WHAT IS SHOWN AND THE ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO THE DISTRICT REPRESENTATIVE. THE CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT (USA) AT (800) 227-2600 PRIOR TO ANY DEMOLITION OR EXCAVATION. UPON COMPLETION OF USA MARKING OPERATIONS, CONTRACTOR SHALL RECORD ALL UTILITY MARKINGS ON A SEPARATE SET OF DRAWINGS. THIS SET SHALL BE KEPT ON-SITE FOR REFERENCE FOR DURATION OF CONTRACT.
- ALL EXISTING DRAINAGE STRUCTURES, BOXES, UTILITY VAULTS, ETC. TO REMAIN, SHALL BE BROUGHT TO FINAL FINISH GRADE PRIOR TO FINAL SURFACE TREATMENT.
- THE CONTRACTOR IS TO PROTECT DRAINAGE SYSTEM FROM DEBRIS, INCLUDING SOIL, ROCK MATERIAL, AND TRASH FROM ENTERING THE PIPE DURING CONSTRUCTION. CONTRACTOR SHALL AVOID PLACING CONSTRUCTION VEHICLES OVER INSTALLED DRAINAGE TRENCHES TO PREVENT CRUSHING OF PIPE.
- COORDINATE ALL SLEEVING AND UTILITY LOCATIONS AS SHOWN ON THE PLANS AND DETAILS CONTAINED WITHIN THESES CONTRACT DOCUMENTS.
- THE CONTRACTOR IS TO ENSURE THAT ALL DRAINAGE AND UTILITY LINES (ACTIVE AND NEW) ARE PROTECTED AND UNDAMAGED FROM TRENCHING AND FOOTING EXCAVATIONS FOR NEW FOOTINGS, PARTICULARLY FOR NEW FENCING AND WALLS.
- ALL ABANDONED STORM LINES SHALL BE REMOVED UNLESS OTHERWISE DIRECTED BY OWNER.
- PRIOR TO ALL DRAINAGE AND UTILITY WORK, CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL POTENTIAL DRAINAGE CONNECTIONS AND EXISTING UTILITY BY POT-HOLING. IN ADDITION, ALL DOWNSTREAM CONNECTIONS TO EXISTING STRUCTURES SHALL BE THE START OF THESE OPERATIONS, AND GRADES SHALL BE VERIFIED. CONTRACTOR SHALL FLUSH AND RUN CAMERAS THROUGH EXISTING DRAINAGE SYSTEM TO REMAIN, WITHIN LIMIT OF WORK, TO VERIFY SYSTEM'S INTEGRITY.
- LENGTHS OF DRAIN LINES BETWEEN PROPOSED AND EXISTING ELEMENTS AND INVERT ELEVATIONS OF PROPOSED DRAINAGE STRUCTURES ON EXISTING DRAIN LINES ARE APPROXIMATE AND SHALL BE VERIFIED IN THE FIELD.

UTILITY NOTES

- AN ACCESS INTERRUPTION NOTICE SHALL BE SECURED WHEN INTERRUPTING THE SITE OPERATION FOR UTILITY INSTALLATION.
- THE SITE BACKFLOW ASSEMBLY NEEDS TO CARRY AN APPROVED LISTING BY USC OR ASSE. A CERTIFIED BACKFLOW TESTING AGENCY SHALL PROVIDE TEST AFTER INSTALLATION. BACKFLOW TESTING AGENCY SHALL PROVIDE COPY OF TEST RESULTS OF APPROVED SITE BACKFLOW PREVENTION ASSEMBLY TO ARCHITECT OR ENGINEER AND BUILDING INSPECTOR. UPC 603.4.2
- WATER SERVICE PIPE SHALL CONFORM TO NSF 61 AND SHALL CONFORM TO ONE OF LISTED STANDARDS IN UPC TABLE 604.1.
- FOR NONMETALLIC PIPE, PROVIDE UNDERGROUND LOCATING DEVICE, SUCH AS A TRACER WIRE, ARS 40-360.22
- PROVIDE BACKFILL DETAIL OR SPECIFICATION, UPC 103.2.1
- TEST ALL WATER PIPING PRIOR TO BACKFILL AND COVER. CALL FOR INSPECTION AND WITNESS TESTING PRIOR TO CONCEALING WATER PIPING, UPC 103.5.6
- FLUSH ALL POTABLE WATER PIPING PRIOR TO OCCUPANCY, UPC 609.
- PROVIDE COMPLETE AS-BUILTS AFTER INSTALLATION SHOWING PIPE SIZE, INSTALLATION, INVERTS, MANHOLES, AND TIE-IN TO PUBLIC SEWER SYSTEM. SUBMIT ALL REQUIRED DOCUMENTATION UNDER SEAL AND SIGNATURE OF THE PROFESSIONAL REGISTRANT.

DIMENSION NOTES

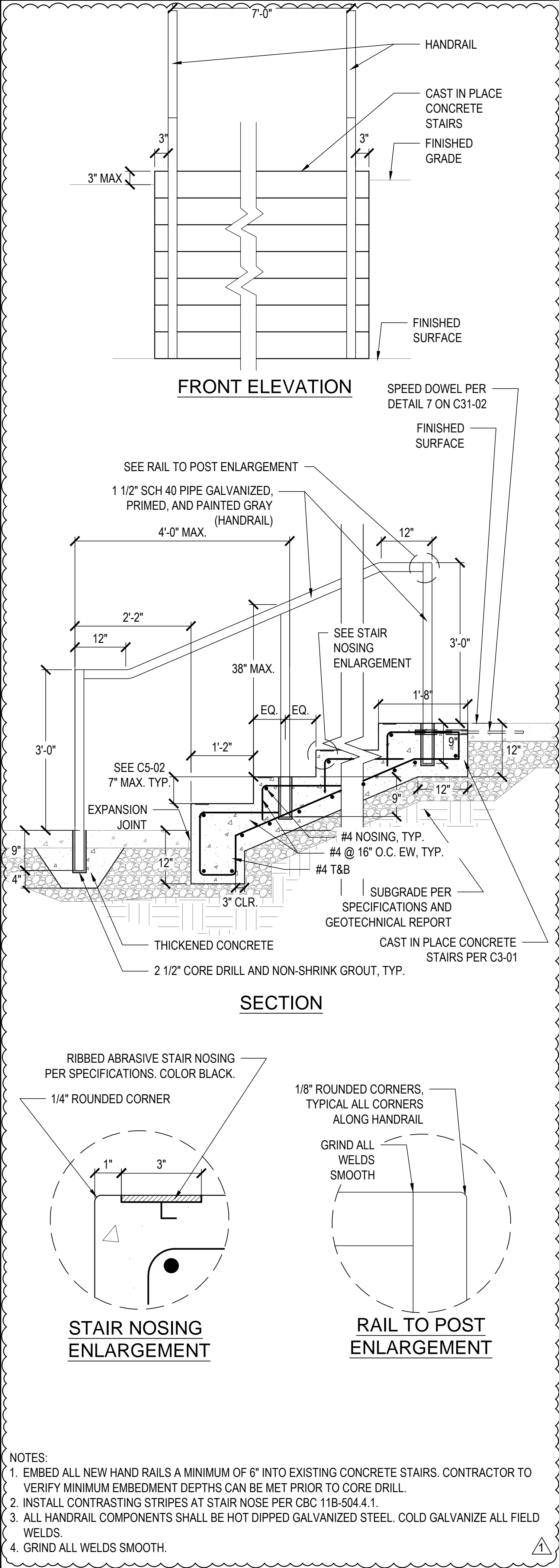
- THE CONTRACTOR SHALL VERIFY CRITICAL DIMENSIONS, REFERENCE POINTS, AND BENCHMARKS, AND NOTIFY OWNER PRIOR TO PLACEMENT OF CONCRETE AND PERMANENT ITEMS.
- EXISTING CONDITIONS MAY VARY FROM SHOWN DIMENSION. CONTRACTOR MUST NOTIFY OWNER PRIOR TO CONSTRUCTION IF DISCREPANCIES ARE FOUND.
- ALL ELECTRICAL AND LOW VOLTAGE BOXES OR ENCLOSURES SHOWN ON THE ELECTRICAL PLAN ARE DIAGRAMMATIC AND FOR REFERENCE ONLY. ELECTRICAL AND LOW VOLTAGE BOXES SHALL BE INSTALLED PER LOCATION SHOWN ON DIMENSION PLAN AND DETAILS.

GENERAL GRADING NOTES:

- ELEVATIONS SHOWN ARE FINISHED GRADE, TOP OF PAVEMENT OR TOP OF SAND SURFACE.
- CONTRACTOR MUST PROVIDE SMOOTH AND FLUSH SURFACE AT ALL FIELD ENTRANCES AND MATERIAL TRANSITIONS. NO DIPS, LIPS OR GAPS ARE ACCEPTED.
- SUBGRADE MUST BE PREPARED AND COMPACTED IN ACCORDANCE WITH ALL RECOMMENDATIONS AND REQUIREMENTS PER GEOTECHNICAL REPORT PREPARED BY GEOTECHNIQUES, DATED JANUARY 31, 2023, AND SPECIFICATIONS.
- ALL ACCESSIBLE PATHWAYS MUST BE INSTALLED IN ACCORDANCE WITH ADA REQUIREMENTS.

IRRIGATION NOTES

- CONNECT TO EXISTING MAINLINE AT APPROXIMATE LOCATION SHOWN.
- ALL IRRIGATION VALVE AND PIPE SYMBOL LOCATIONS ARE DIAGRAMMATIC. DO NOT INSTALL IRRIGATION EQUIPMENT IN DIRECT CONFLICT WITH UTILITY, LANDSCAPE OR HARDSCAPE ELEMENTS. COORDINATE LOCATION OF ALL ON FIELD UTILITIES INCLUDING CIVIL STORM DRAIN WITH OTHER TRADES PRIOR TO IRRIGATION INSTALLATION. CONTACT ENGINEER IMMEDIATELY IF CONFLICTS ARE LOCATED.
- DO NOT INSTALL IRRIGATION MAINLINE IN JOINT TRENCH WITH DRAINAGE COLLECTOR LINE.
- REFER TO SPECIFICATIONS FOR ALL PRESSURE TESTING AND FLUSHING REQUIREMENTS.
- SEPARATE SLEEVES ARE REQUIRED FOR PIPE AND WIRE AT ALL HARDSCAPE AND WALL CROSSINGS. SLEEVES MUST BE 2X NOMINAL DIAMETER OF WATER SUPPLY PIPE. WIRE SLEEVE MUST BE 3" MINIMUM.
- EXISTING UTILITIES SHOWN ARE FOR REFERENCE ONLY. ADDITIONAL UTILITIES MAY BE PRESENT. CONTRACTOR IS RESPONSIBLE FOR LOCATING REGARDLESS OF IF THEY APPEAR ON THESE PLANS OR NOT. ALL IRRIGATION LINES MUST BE TRENCHED WITH CAUTION. CONTRACTOR IS RESPONSIBLE TO REPAIR OR REPLACE ANY UTILITIES DAMAGED DURING CONSTRUCTION.
- ALL VALVE BOXES MUST BE PURPLE FOR RECLAIMED WATER. QUICK COUPLER VALVES SPECIFICALLY CALLED OUT TO BE INSTALLED IN HARDSCAPE MUST BE IN CONCRETE BOXES WITH CONCRETE LIDS.
- IRRIGATION VALVE NUMBERS ARE FOR PLAN REFERENCE ONLY. COORDINATE WITH OWNER TO DETERMINE FINAL VALVE CONTROLLER STATION NUMBERS. RECORD STATION NUMBERS ON AS-BUILTS AND CONTROLLER CHART.
- THE CONTRACTOR SHALL COORDINATE ALL IRRIGATION MAIN AND PVC LATERAL LINES SO THAT THE ARE NOT PLANTED UNDER TREES AND KEPT A MINIMUM OF 36" FROM NEW AND EXISTING TREE TRUNKS.
- CONTRACTOR MUST PROVIDE ALL NECESSARY EQUIPMENT, WIRES AND PROGRAMMING REQUIRED TO INCORPORATE NEW IRRIGATION CONTROLLER INTO EXISTING IRRIGATION CENTRAL CONTROL SYSTEM.
- AVOID DAMAGE TO EXISTING TREE ROOT SYSTEMS. MAINTAIN 5' SEPARATION MINIMUM FROM TREE TRUNKS. NOTIFY ENGINEER PRIOR TO TRENCHING WHERE IRRIGATION AND TREE CONFLICTS EXIST.
- ABOVE GRADE PIPE MUST BE COPPER. NO PVC PIPE MAY BE INSTALLED ABOVE GRADE.
- CONTRACTOR MUST IDENTIFY PIPE SIZE OF MAINLINE AND LATERALS AT ALL CONNECTION POINTS TO EXISTING SYSTEM. IF AT ANY LOCATION THE EXISTING PIPE DOES NOT MATCH THE NOMINAL SIZE CALLED FOR ON NEW EXTENSION THEN THE CONTRACTOR MUST NOTIFY ENGINEER IMMEDIATELY.
- THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING IRRIGATION FLOW AND AUTOMATIC CONTROL TO ALL EXISTING VALVES TO REMAIN, INCLUDING VALVES OUTSIDE OF THE CONSTRUCTION AREA. AT THE START OF CONSTRUCTION THE CONTRACTOR MUST POT-HOLE AND IDENTIFY CONTROL WIRE LOCATIONS AND DETERMINE WIRE COUNTS REQUIRED TO INSTALL NEW VALVES AND MAINTAIN EXISTING VALVES. THE CONTRACTOR MUST IMMEDIATELY NOTIFY THE ENGINEER IF THERE IS A SHORTAGE OF WIRES OR CONTROL STATIONS AS NEEDED TO MAINTAIN EXISTING SYSTEM AND PROPOSED ADDITIONS.
- ALL WIRE SPLICES MUST BE MADE IN DEDICATED VALVE BOXES LOCATED IN LANDSCAPE AREAS. CONTRACTOR MUST AS-BUILT ALL WIRE SPLICE LOCATIONS, STATION NUMBERS THAT ARE CONTAINED IN THE BOX AND SPARE WIRE COUNTS
- ANY TRENCHES OR DAMAGE DONE TO GRASS AREAS TO REMAIN MUST BE REPAIRED WITH SOD, MATCHING THE EXISTING GRASS SPECIES.
- CONTRACTOR MUST FULLY INVESTIGATE EXISTING IRRIGATION SYSTEM PRIOR TO CONSTRUCTION TO DETERMINE MAINLINE ROUTING TO ALL IRRIGATION VALVES TO REMAIN. EXTEND BOTH MAINLINE AND WIRES TO ANY REMAINING MAINLINE OR VALVES AS NEEDED TO MAINTAIN IRRIGATION WATER AND AUTOMATED CONTROL TO EXISTING IRRIGATION.



LLOYD
SPORTS + ENGINEERING

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SUITE 515-324
SCOTTSDALE, ARIZONA 85258
PH 602.635.4226

CONSTRUCTION DOCUMENTS

REV.		
ADDENDUM 1	6/9/23	

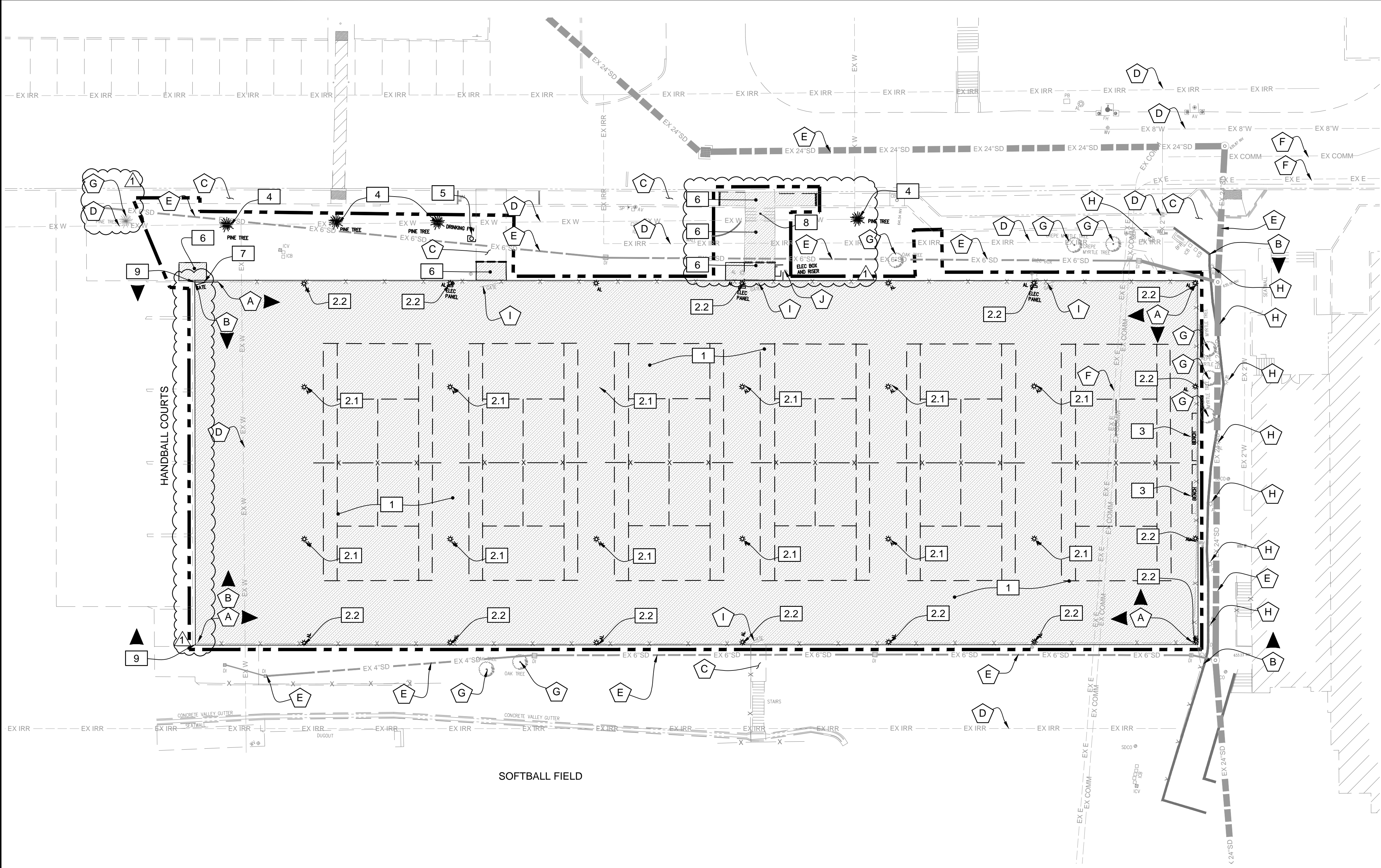
MOORPARK COLLEGE
BEACH VOLLEYBALL
COURTS

MOORPARK, CA		
DESIGNED:	BL	
DATE:	APR 4, 2023	
DRAWN:	TML	
PROJ.	21-152	
SCALE:	N/A	

GENERAL NOTES

DWG. NO.
C1-00

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PROTECT IN PLACE KEYNOTES:

- A PROTECT IN PLACE EXISTING CHAIN LINK FENCE POSTS AND PERIMETER CURB. MODIFICATIONS TO GATES AND REPLACEMENT OF CHAIN LINK FENCING FABRIC TO BE PROVIDED BY CONTRACTOR.
- B PROTECT IN PLACE EXISTING CONCRETE WALL.
- C PROTECT IN PLACE EXISTING CONCRETE/ASPHALT AREA.
- D PROTECT IN PLACE EXISTING IRRIGATION/WATER LINES.
- E PROTECT IN PLACE EXISTING STORM DRAIN PIPES AND INLETS.
- F PROTECT IN PLACE EXISTING ELECTRICAL AND COMMUNICATION LINES.
- G PROTECT IN PLACE EXISTING TREES.
- H PROTECT IN PLACE EXISTING POWER/LIGHT POLE.
- I PROTECT IN PLACE EXISTING ACCESS GATES.
- J PROTECT IN PLACE EXISTING ELECTRICAL BOXES/VAULTS.

DEMOLITION KEYNOTES:

- 1 REMOVE AND DISPOSE OF EXISTING CONCRETE COURTS AND BASE. REMOVE ADDITIONAL DEPTH AS NECESSARY TO CLEAR EXCESSIVE BASE STONE OR OTHER UNSUITABLE MATERIAL.
- 2.1 REMOVE AND SALVAGE EXISTING COURT LIGHT POLES, FIXTURES, AND RELATED CONTROL WIRES, BOXES AND ELECTRICAL PANELS WITHIN LIMIT OF WORK. RETURN EQUIPMENT TO OWNER. POLES AND BASES TO BE COMPLETELY REMOVED IN COURT AREA.
- 2.2 REMOVE AND SALVAGE EXISTING COURT LIGHT POLES, FIXTURES, AND RELATED CONTROL WIRES, BOXES AND ELECTRICAL PANELS WITHIN THE SCOPE OF WORK. POLES ALONG PERIMETER TO BE CUT AT BASE AND BASE OF FOOTING TO REMAIN. FILL CAVITY OF REMAINING POLE WITH GROUT.
- 3 SALVAGE AND RETURN TO OWNER EXISTING BENCHES.
- 4 REMOVE AND DISPOSE OF EXISTING TREE.
- 5 REMOVE AND DISPOSE OF EXISTING DRINKING FOUNTAIN.
- 6 REMOVE AND DISPOSE OF EXISTING CONCRETE SIDEWALK CURB AND BASE.
- 7 REMOVE AND DISPOSE OF EXISTING CHAIN LINK GATE AND FABRIC. PROTECT POSTS IN PLACE.
- 8 REMOVE AND DISPOSE OF EXISTING CONCRETE STAIR SET AND HANDRAILS.
- 9 UNBOLT & REMOVE EXISTING 6' TALL STEEL NET POSTS AND NETTING FROM TOP OF WALL.

LEGEND

- LIMITS OF CONSTRUCTION
- EXISTING CONCRETE/ASPHALT TO BE REMOVED
- CHAIN LINK FENCE LINE
- UNDERGROUND ELECTRICAL
- UNDERGROUND IRRIGATION
- UNDERGROUND WATER
- UNDERGROUND COMMUNICATION
- UNDERGROUND STORM SEWER
- SAWCUT LINE
- CHAIN LINK FENCE
- CONCRETE CURB
- CONCRETE SIDEWALK
- BUILDING
- SITF: WAI I

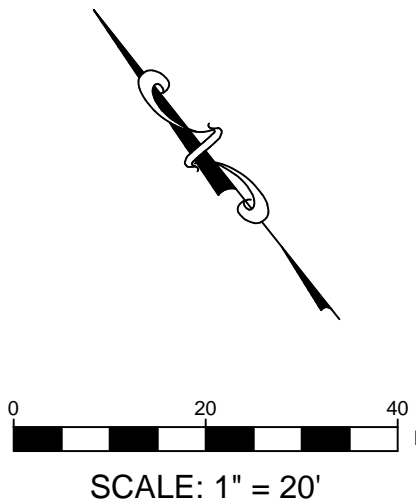
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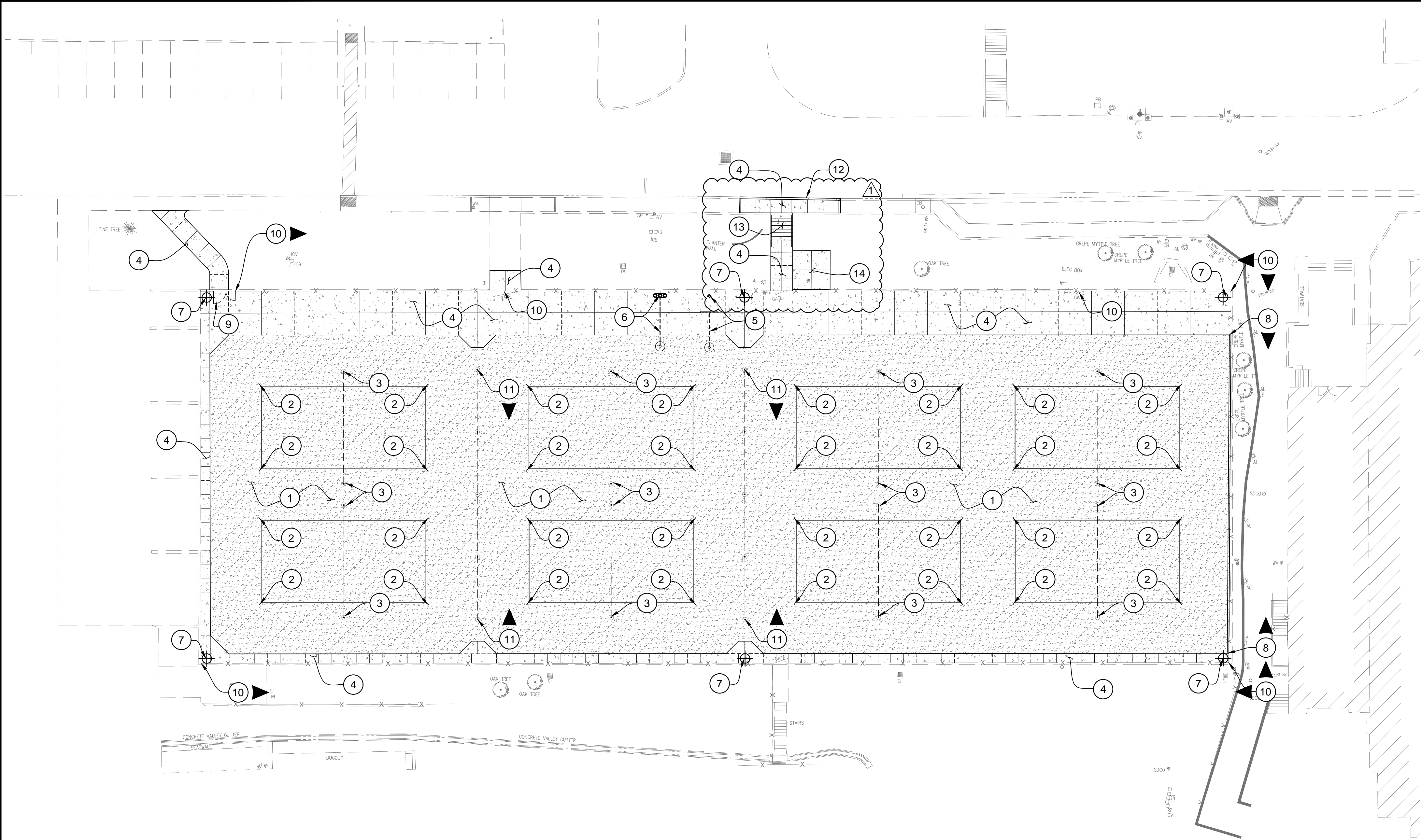
MOORPARK COLLEGE
BEACH VOLLEYBALL
COURTS

MOORPARK, CA		
DESIGNED:	BL	
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SCALE:	1" = 20'	

DEMOLITION PLAN



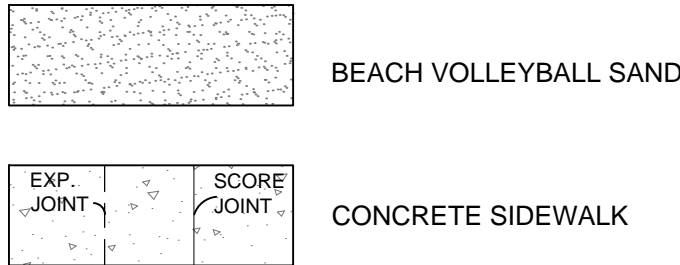
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SURFACING KEYNOTES:

- 1 INSTALL VOLLEYBALL COURT SAND PROFILE PER SPECIFICATIONS AND DETAIL 1 ON SHEET C3-02.
- 2 INSTALL VOLLEYBALL BOUNDARY LINE ANCHOR PER SPECIFICATIONS AND DETAIL 2 ON SHEET C3-02. SET ANCHOR 12" OFF CORNER OF COURT LOCATION, TYP.
- 3 INSTALL VOLLEYBALL NET SLEEVE ON FOOTING PER SPECIFICATIONS AND DETAIL 3 ON SHEET C3-02. NET AND POST TO BE INSTALLED PER SPECIFICATIONS AND DETAIL.
- 4 INSTALL CONCRETE COURT EDGE WITH LIGHT BROOM FINISH PER SPECIFICATIONS AND DETAILS 5 AND 7 ON SHEET C3-02. CONTRACTOR TO PROVIDE FLUSH TRANSITIONS AT ALL ADJACENT PAVEMENT SURFACES.
- 5 INSTALL SAND WASH STATION WITH TRENCH DRAIN AND DRYWELL PER SPECIFICATIONS AND DETAIL 12 ON SHEET C3-02 AND DETAIL 3 ON SHEET C7-02.
- 6 INSTALL DRINKING FOUNTAIN WITH SIDE RAILS AND DRYWELL PER SPECIFICATIONS AND DETAIL 1 ON SHEET C3-03 AND DETAIL 3 ON SHEET C7-02.
- 7 INSTALL SPORTS LIGHTING POLES PER ELECTRICAL PLANS AND MUSCO SHOP DRAWINGS.
- 8 INSTALL CONCRETE CURB PER SPECIFICATIONS AND DETAIL 6 ON SHEET C3-02.
- 9 INSTALL 4' WIDE ACCESSIBLE GATE WITH 3' WIDE MAINTENANCE GATE AT EXISTING FENCE POSTS PER DETAIL 9 ON SHEET C3-02.
- 10 REPAIR EXISTING CHAIN LINK, GATES, POSTS, AND RAILS AS NEEDED, AND ADJUST TO NEW BOTTOM RAIL ELEVATION. INSTALL NEW VINYL CLAD CHAIN LINK FABRIC AND WINDSCREEN TO REPLACE EXISTING, PER DETAIL 8 ON SHEET C3-02.
- 11 INSTALL 10' TALL BACKLINE NET, POSTS AND FOOTINGS PER SPECIFICATIONS, MANUFACTURER INSTALLATION INSTRUCTIONS, AND DETAILS 3 AND 4 ON SHEET C3-02. CONTRACTOR MUST PROVIDE MANUFACTURER PACKAGE SYSTEM THAT INCLUDES ALL SUPPORT AND FOOTING SHOP DRAWINGS SIGNED AND SEALED BY STRUCTURAL ENGINEER REGISTERED IN THE STATE OF CALIFORNIA.
- 12 INSTALL NEW CURB & GUTTER PER DETAIL 6 ON SHEET C3-03.
- 13 INSTALL NEW CONCRETE STAIR SET WITH HANDRAILS PER DETAIL 1 ON SHEET C1-00.
- 14 INSTALL ELECTRICAL GEAR PAD PER DETAIL 1 ON SHEET E401.

SURFACING LEGEND



CONSTRUCTION DOCUMENTS

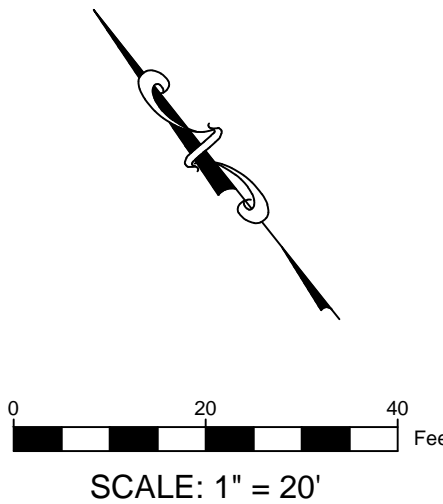
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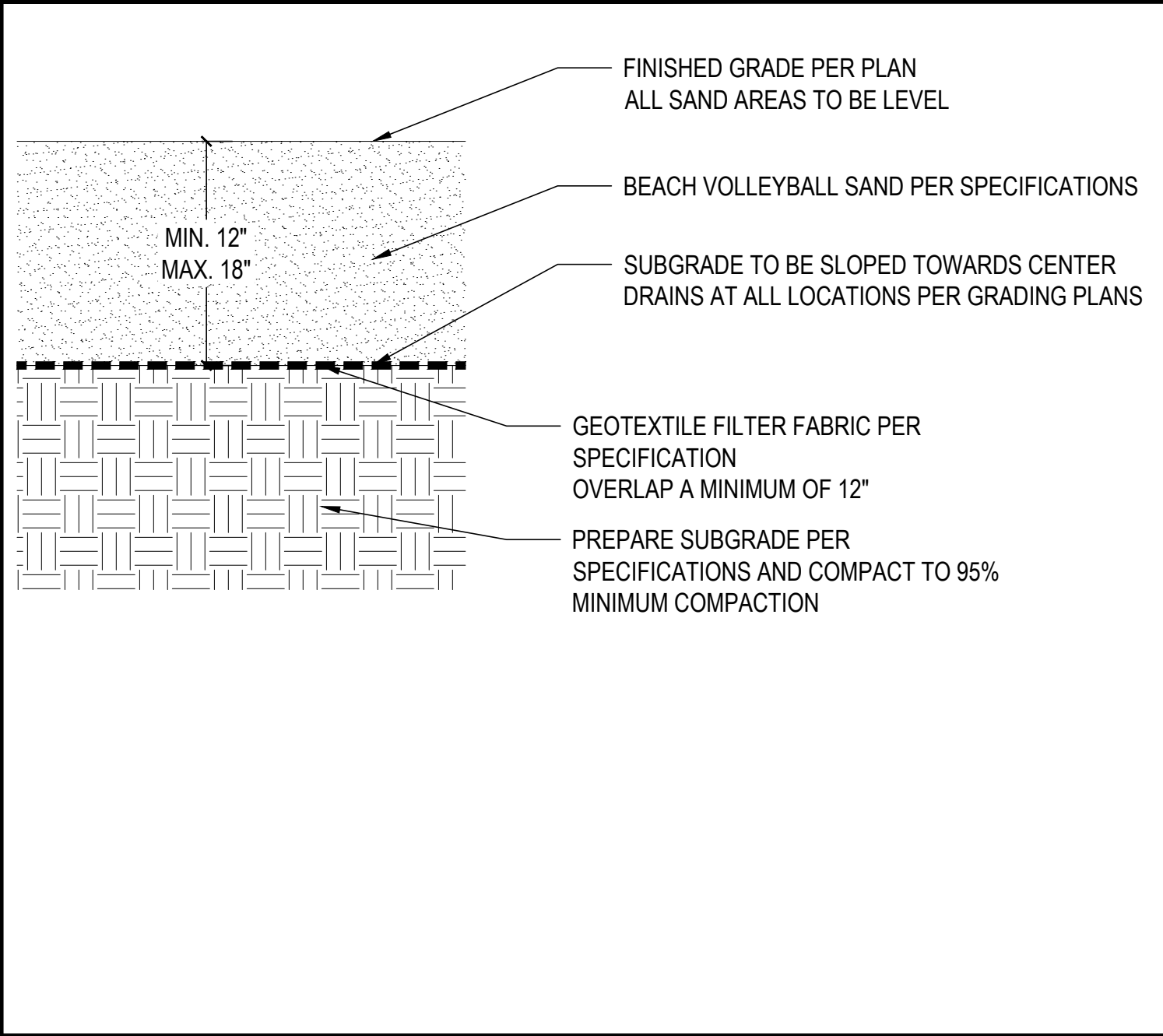
MOORPARK COLLEGE
BEACH VOLLEYBALL
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DESIGNED:	BL
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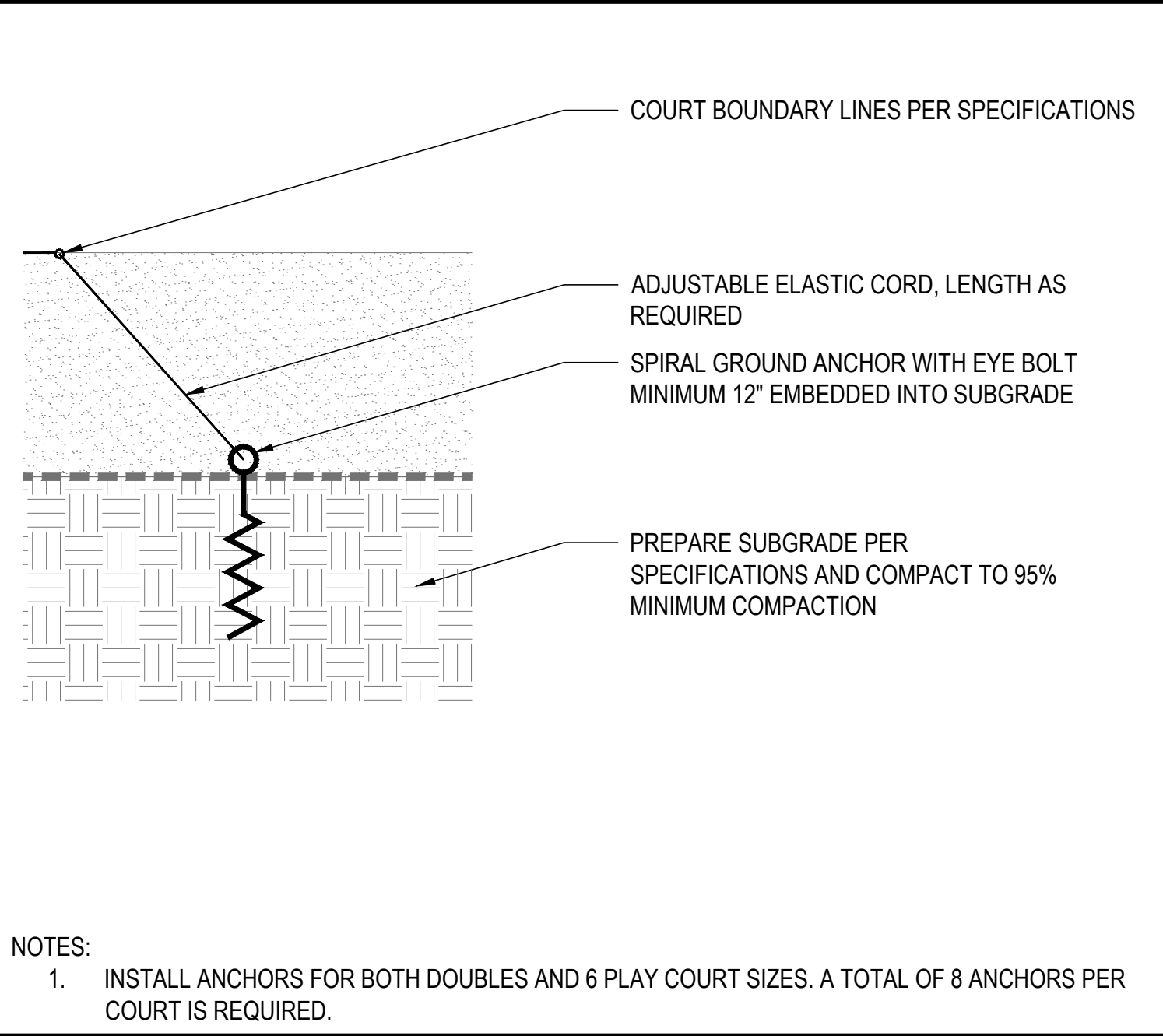
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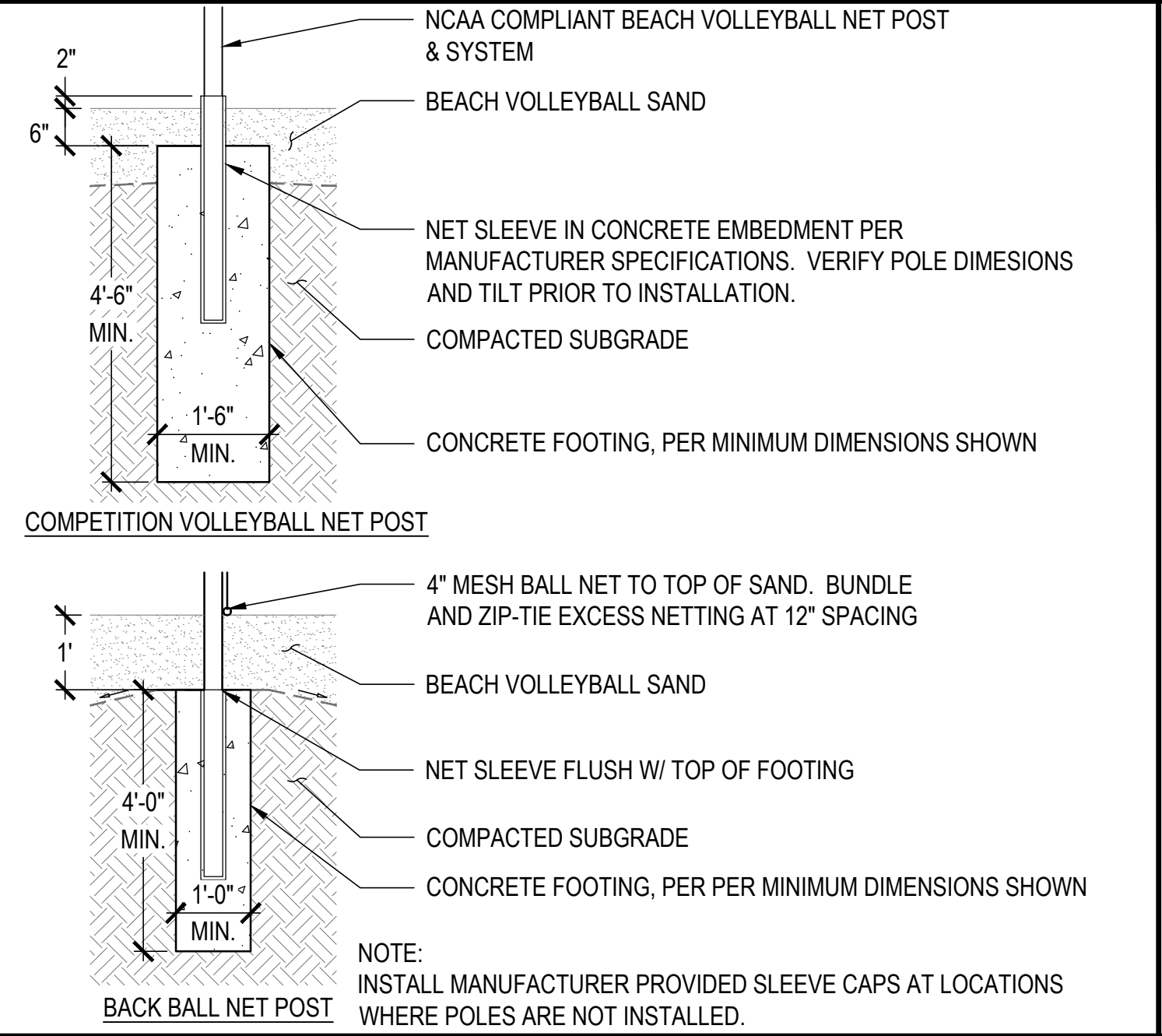




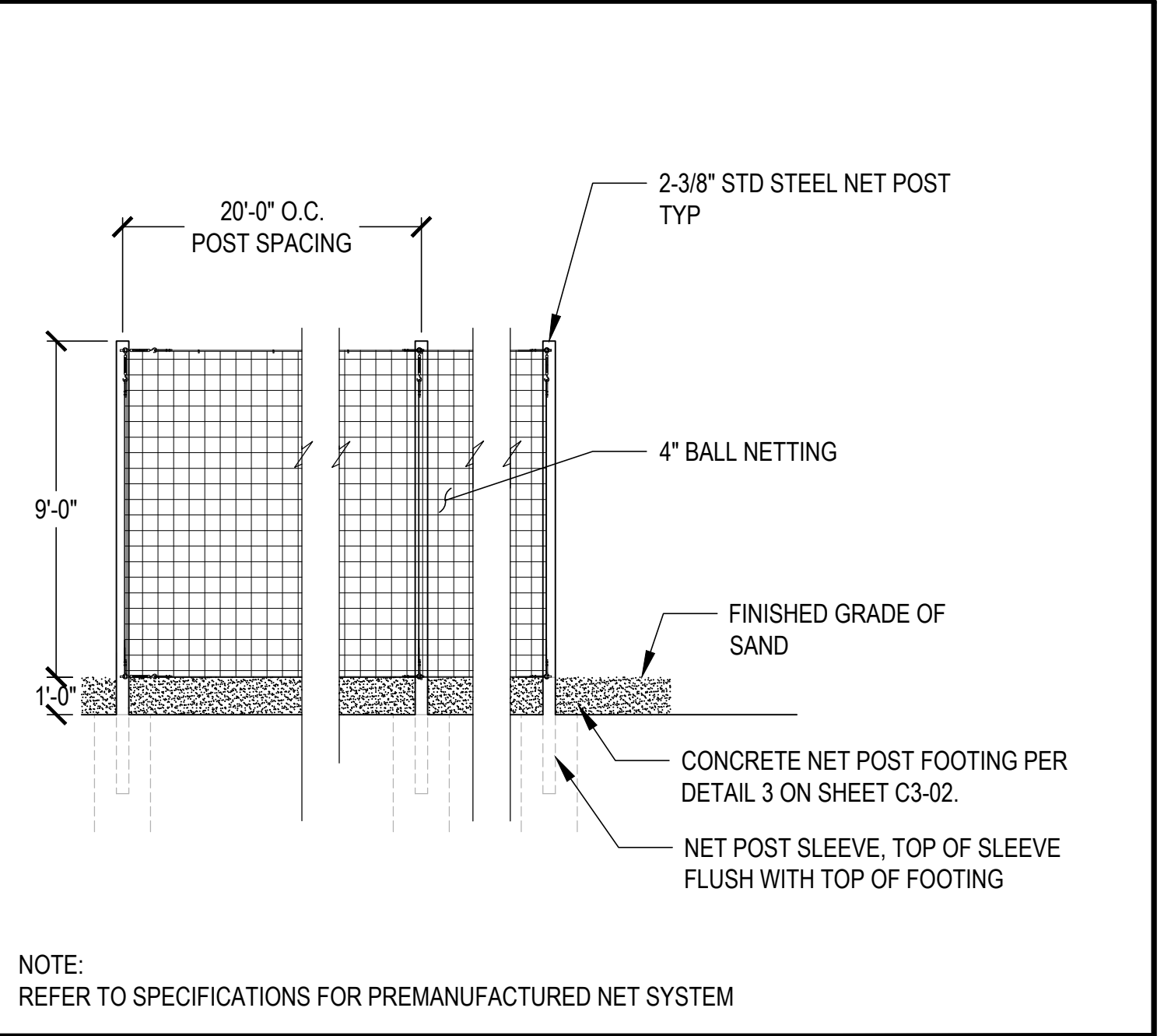
1 VOLLEYBALL COURT SAND PROFILE
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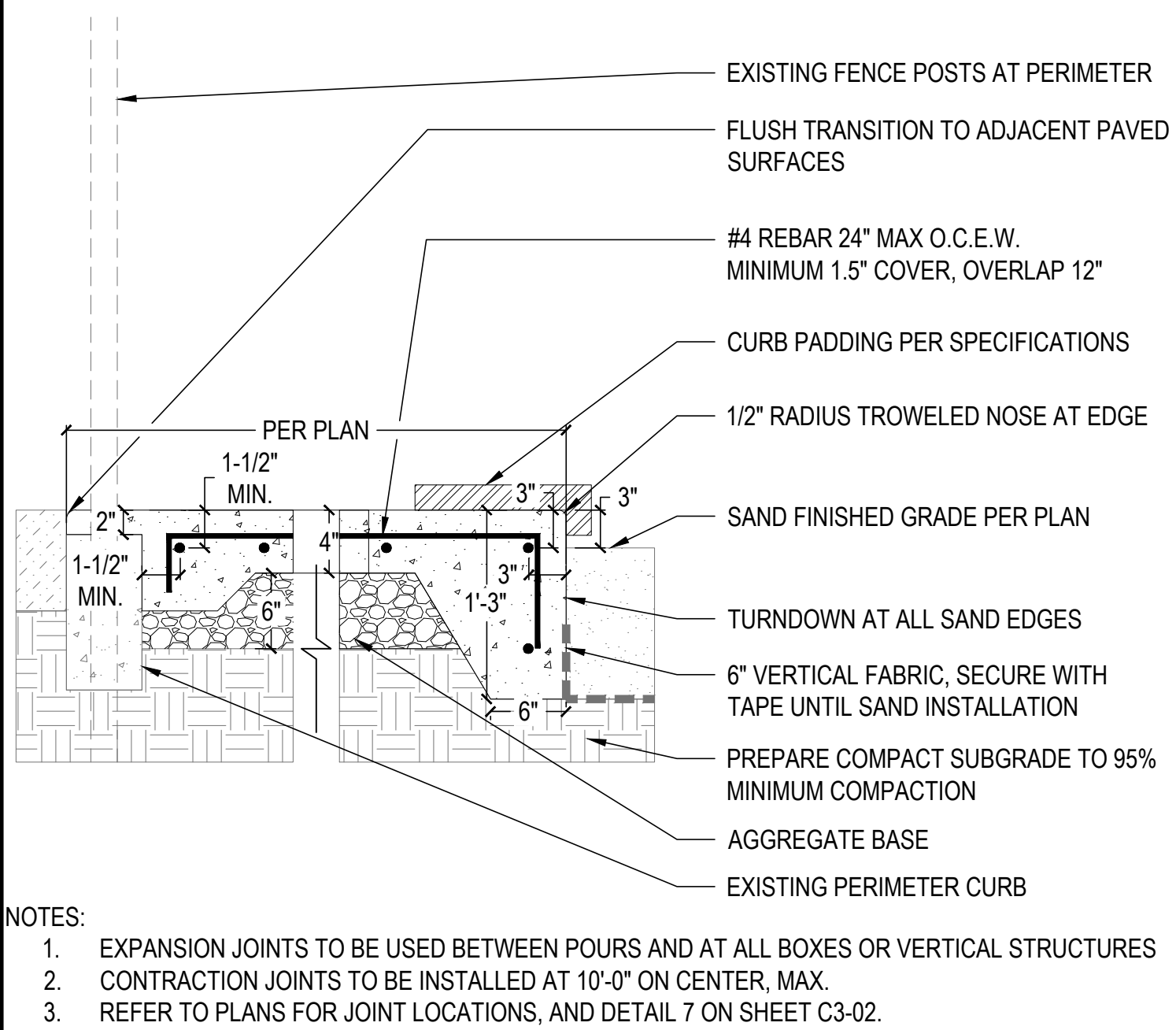
2 VOLLEYBALL BOUNDARY LINE ANCHOR
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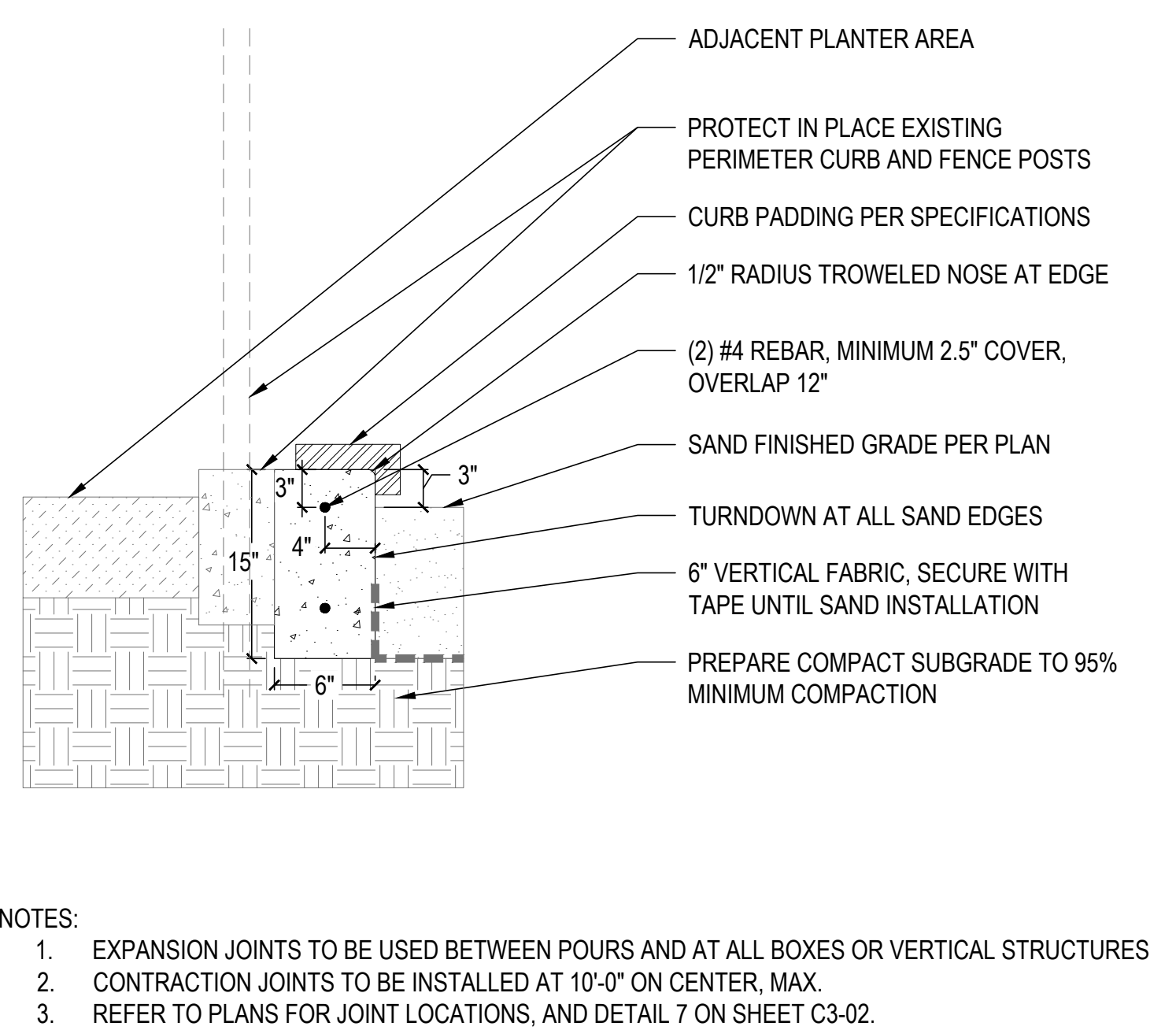
3 VOLLEYBALL NET SLEEVE DETAIL
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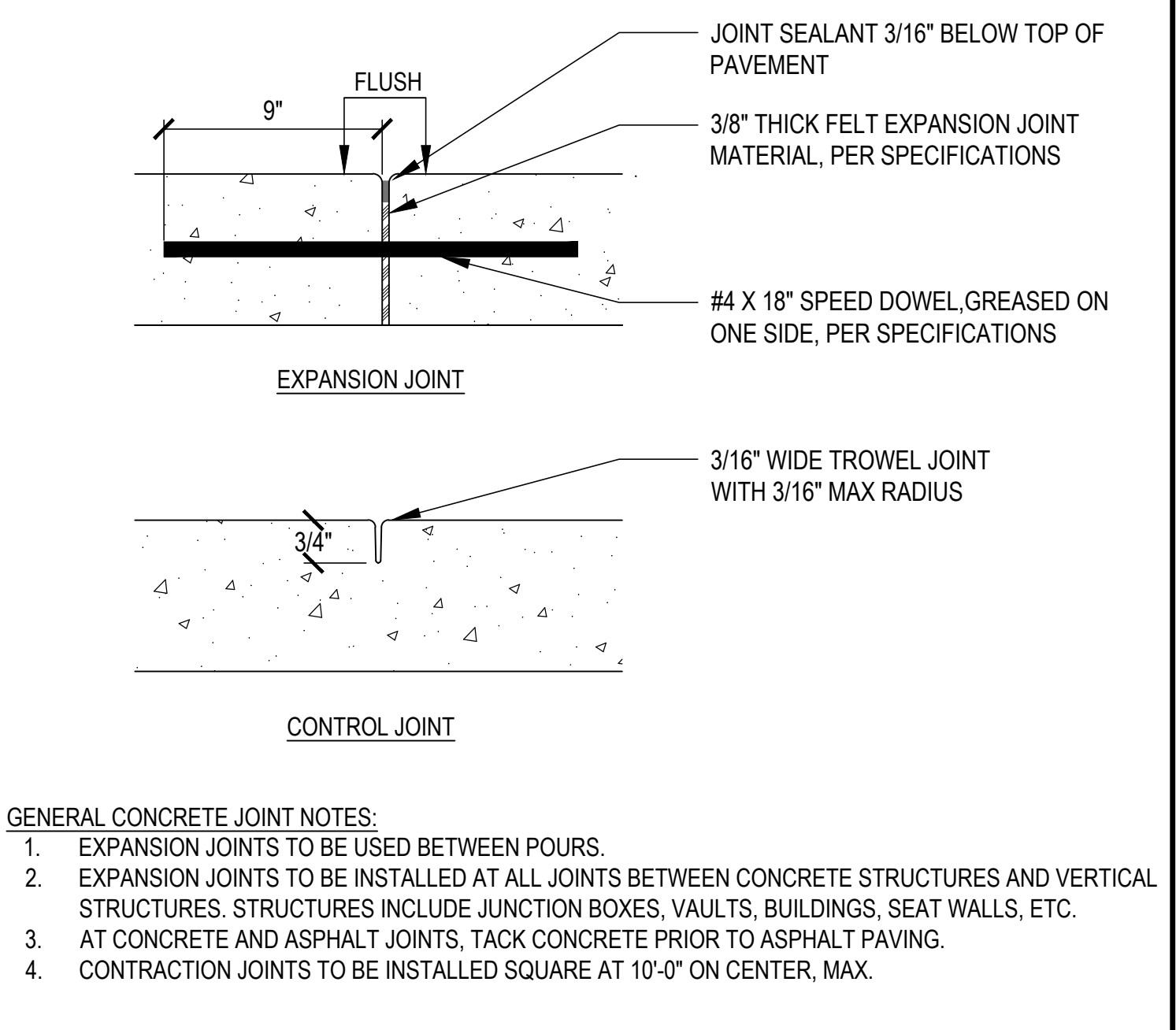
4 10-FOOT TALL BACKLINE NET
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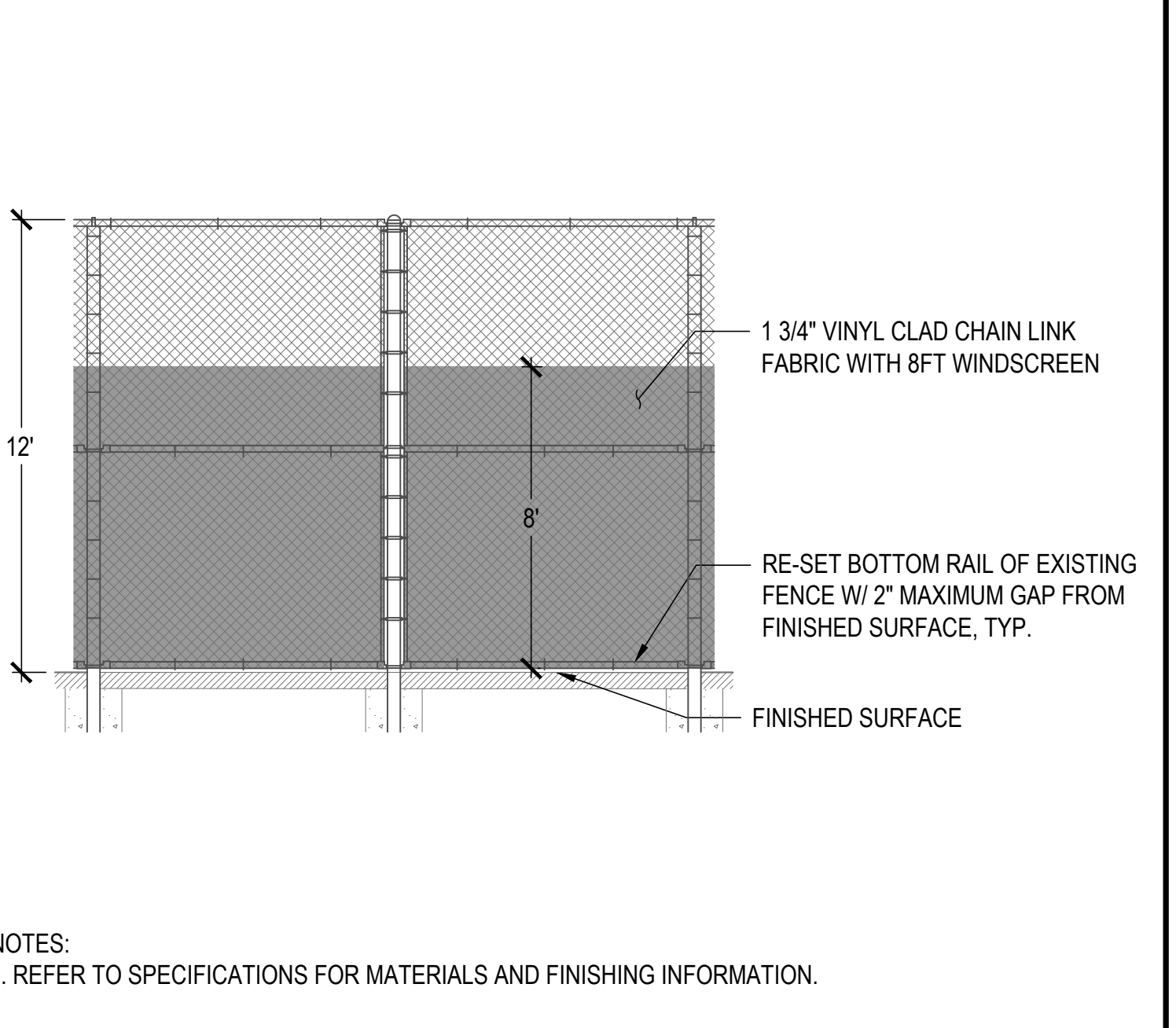
5 CONCRETE COURT EDGE
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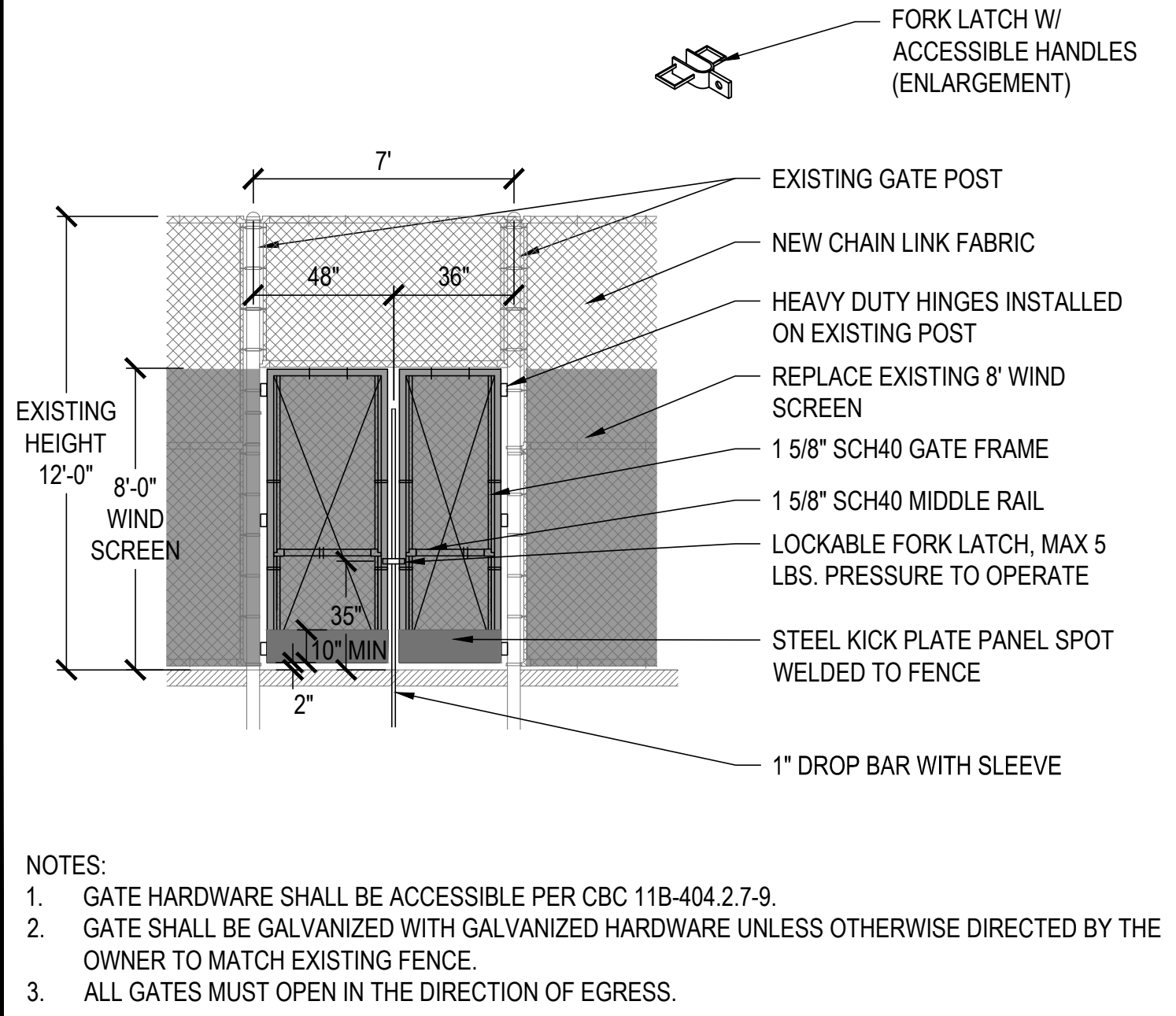
6 CONCRETE CURB
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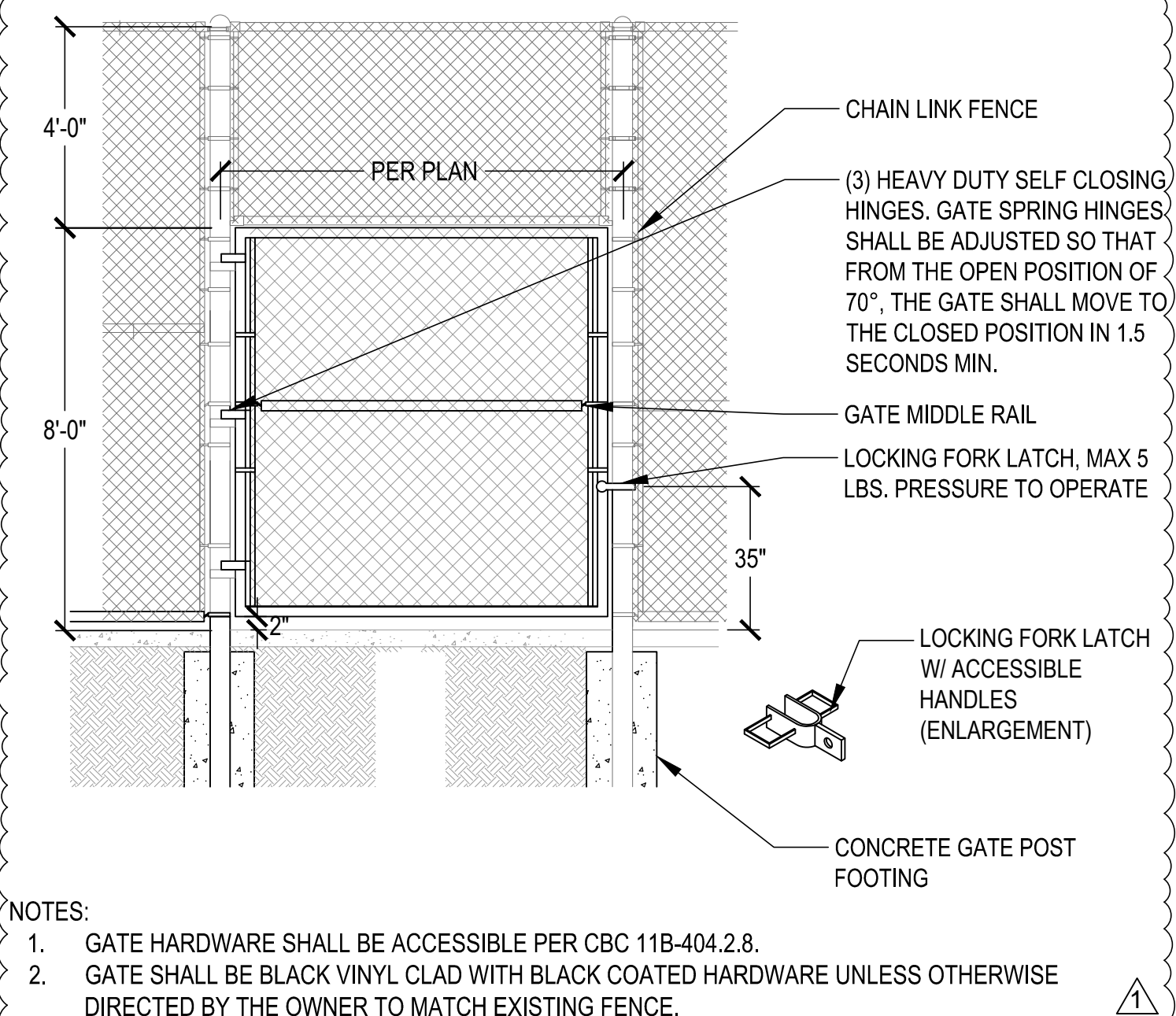
7 CONCRETE JOINT DETAIL
NTS



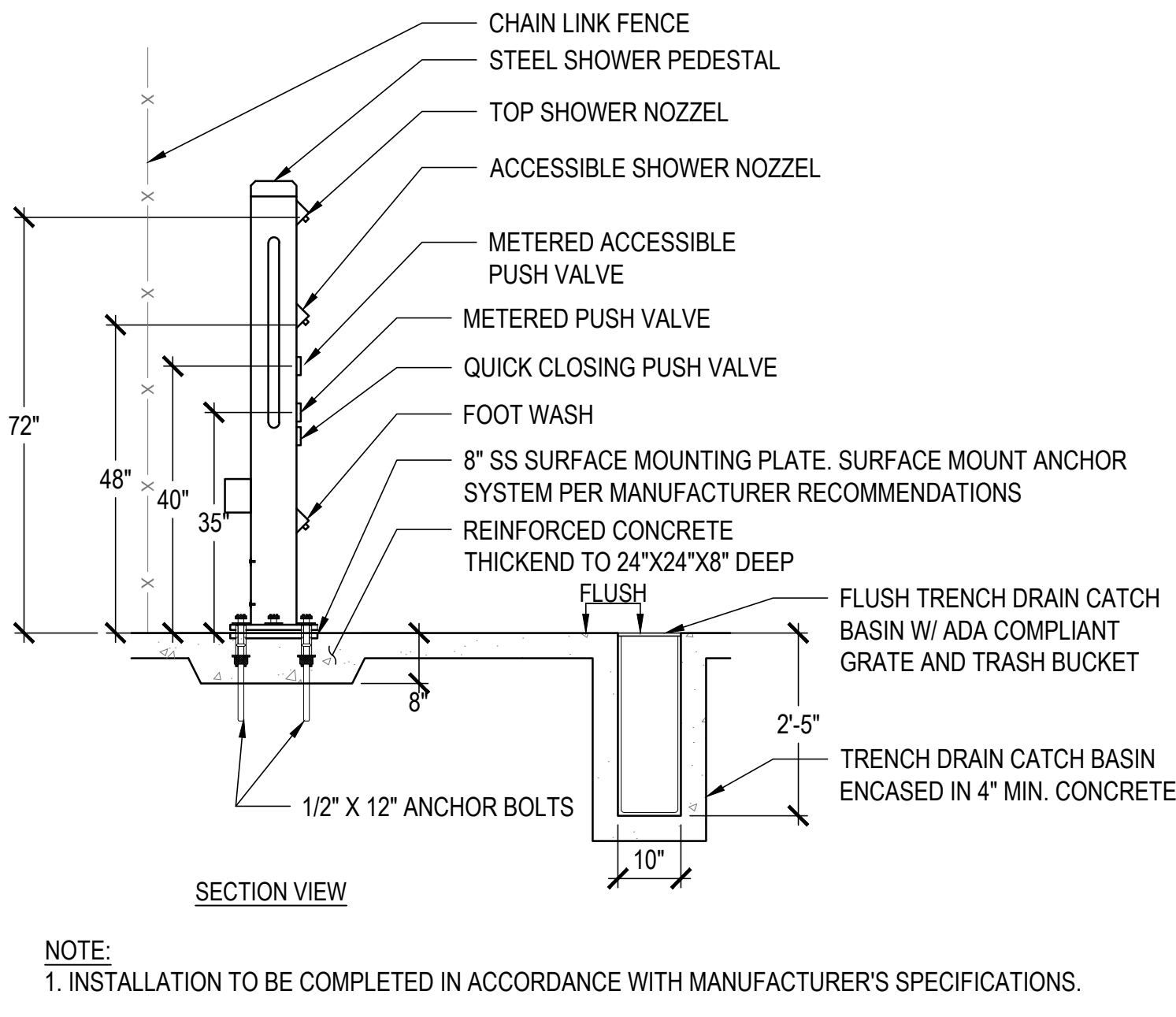
8 EX. 12' TALL CHAIN LINK FENCE WITH WIND SCREN
NTS



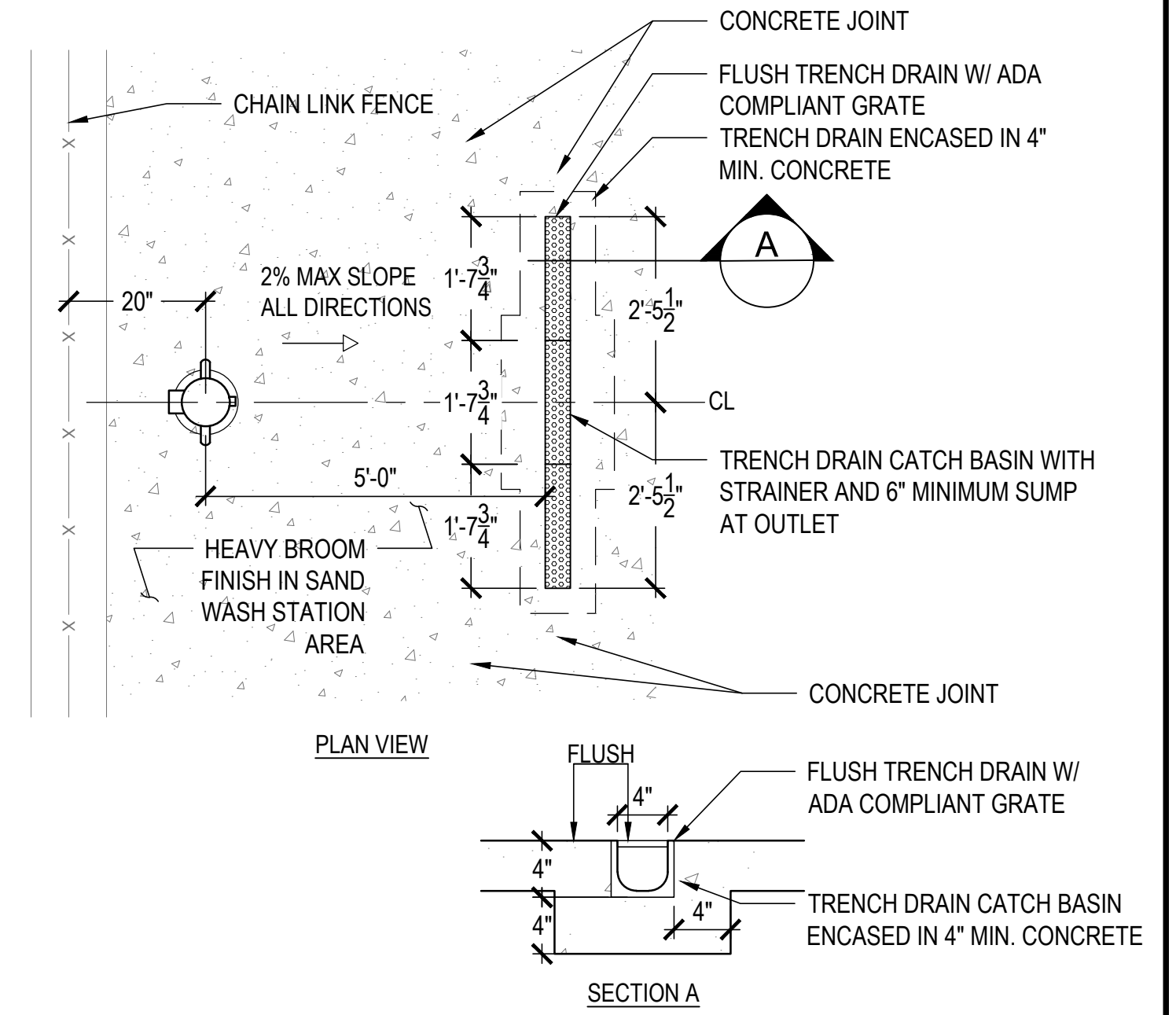
9 12' TALL CHAIN LINK FENCE WITH DOUBLE GATE
NTS



10 MAINTENANCE ACCESS CHAIN LINK FENCE GATE
NTS



11 SAND WASH STATION
NTS



12 SURFACING AND FENCING DETAILS
NTS

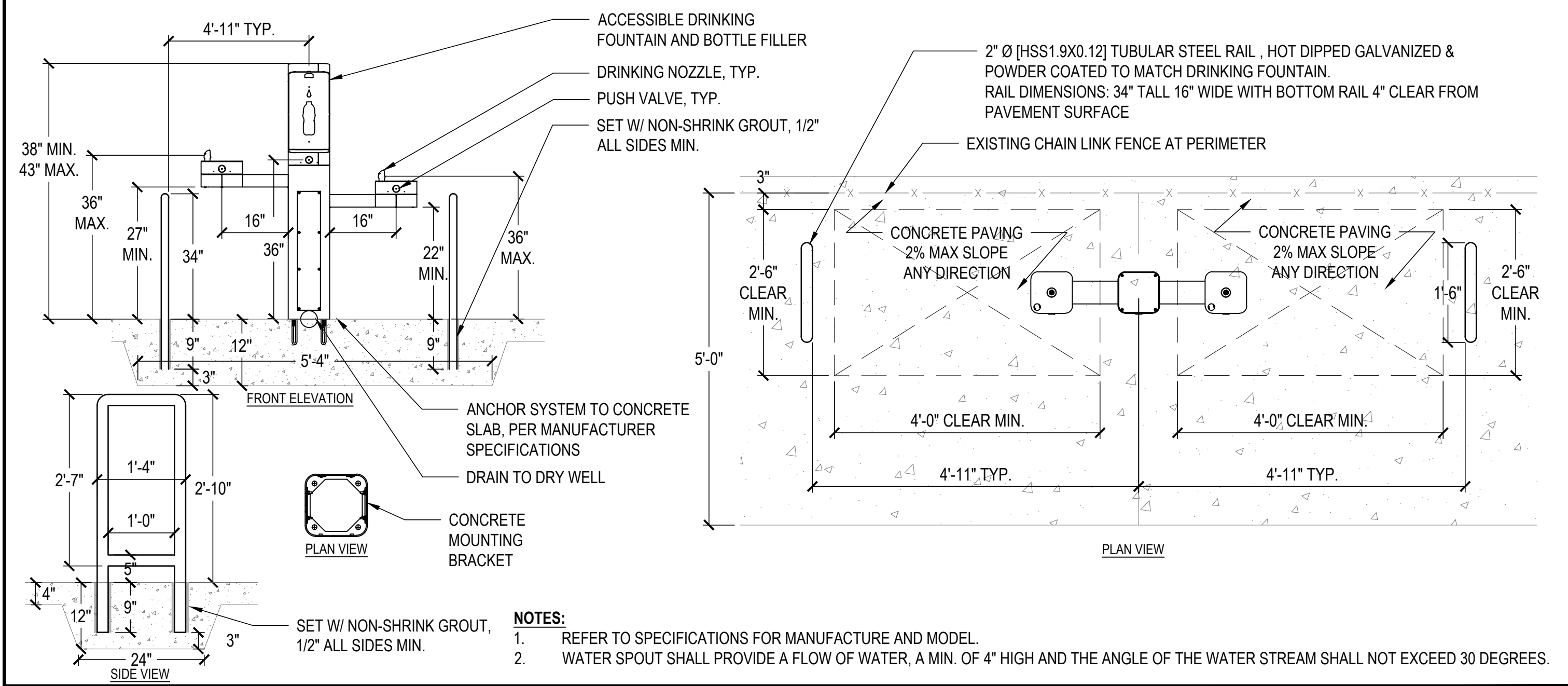
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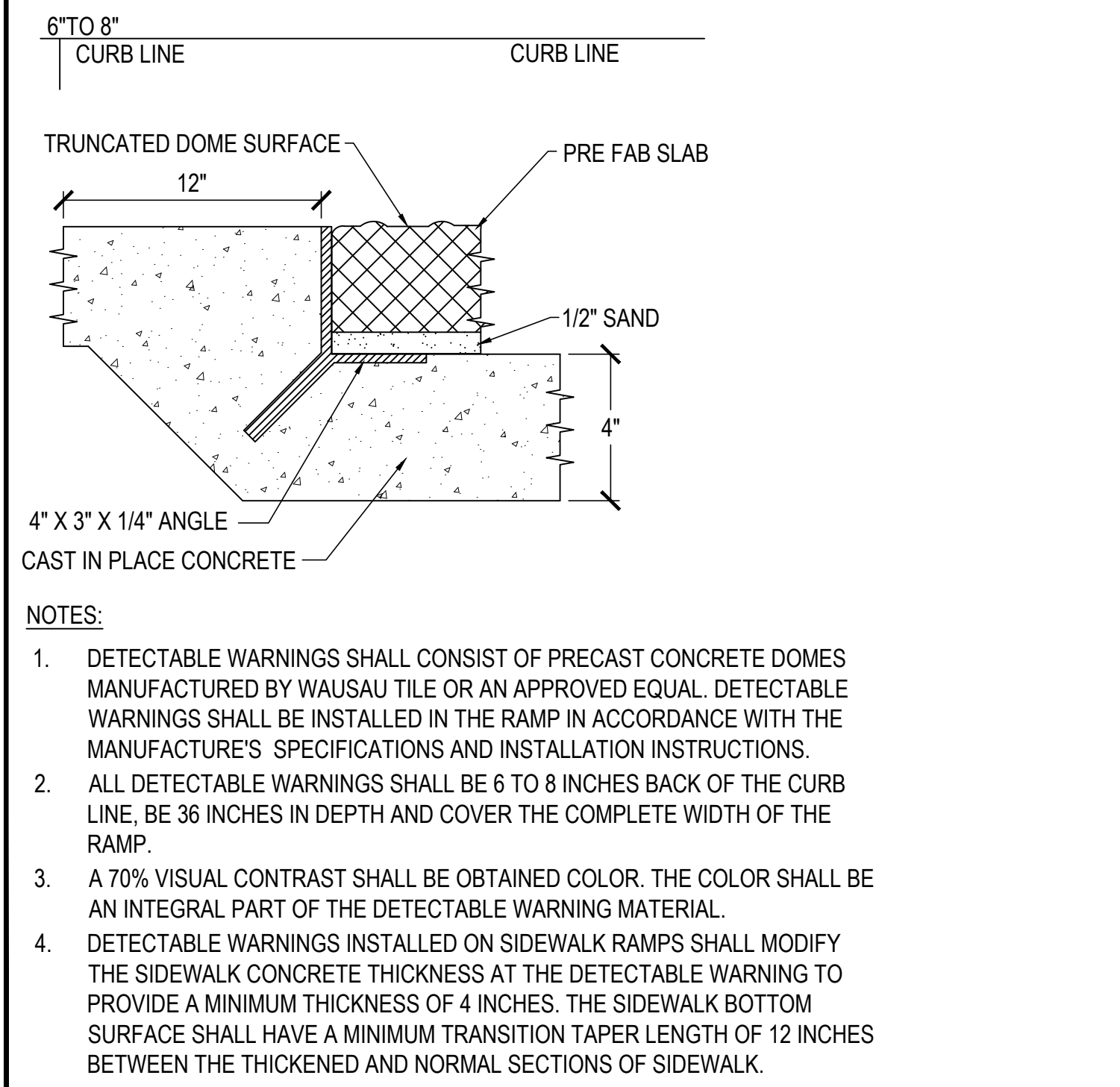
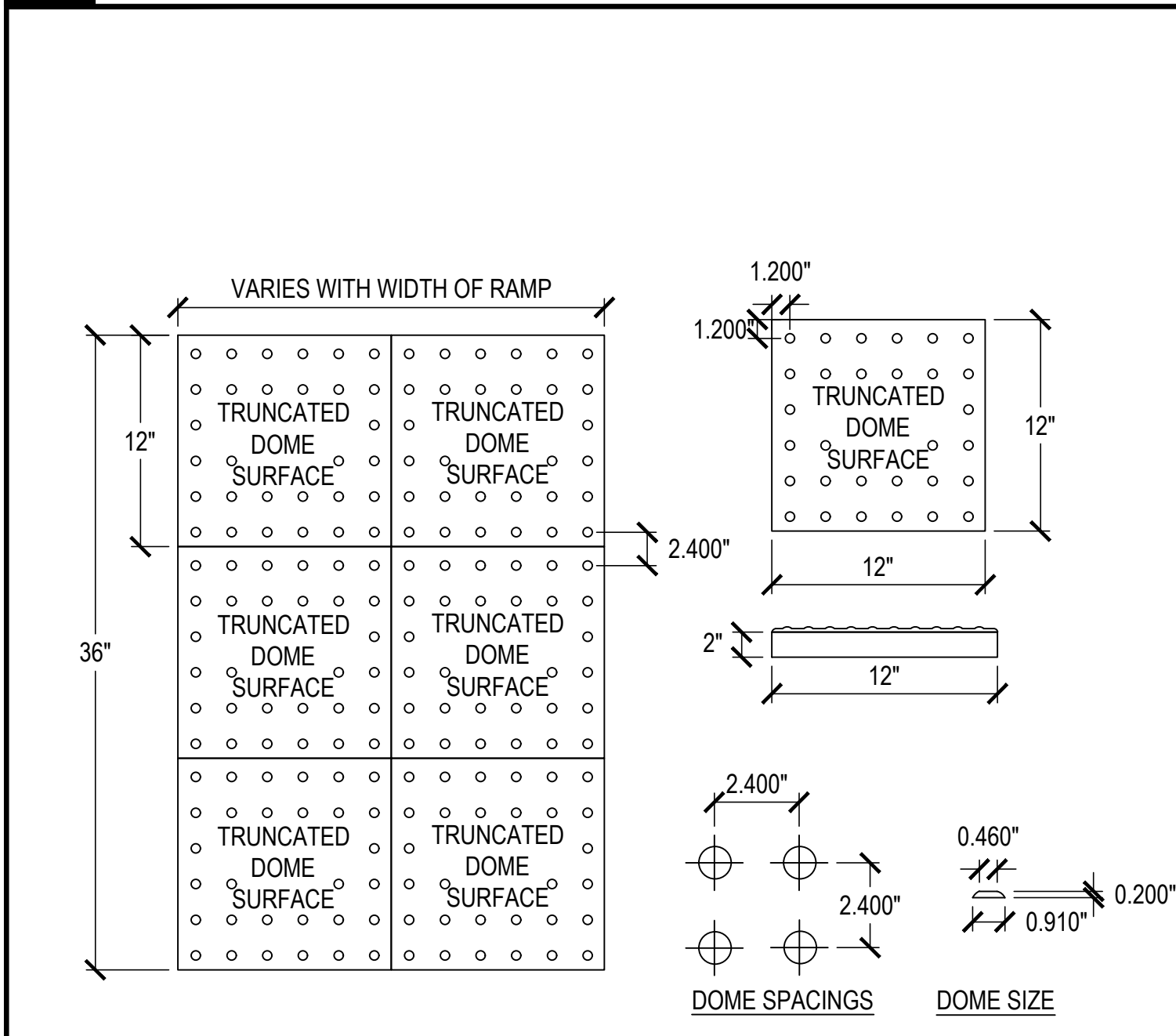
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DATE:	APR 4, 2023
DRAWN:	TML
PROJ.	21-152
SCALE:	

SURFACING AND
FENCING DETAILS
DWG. NO.
C3-02

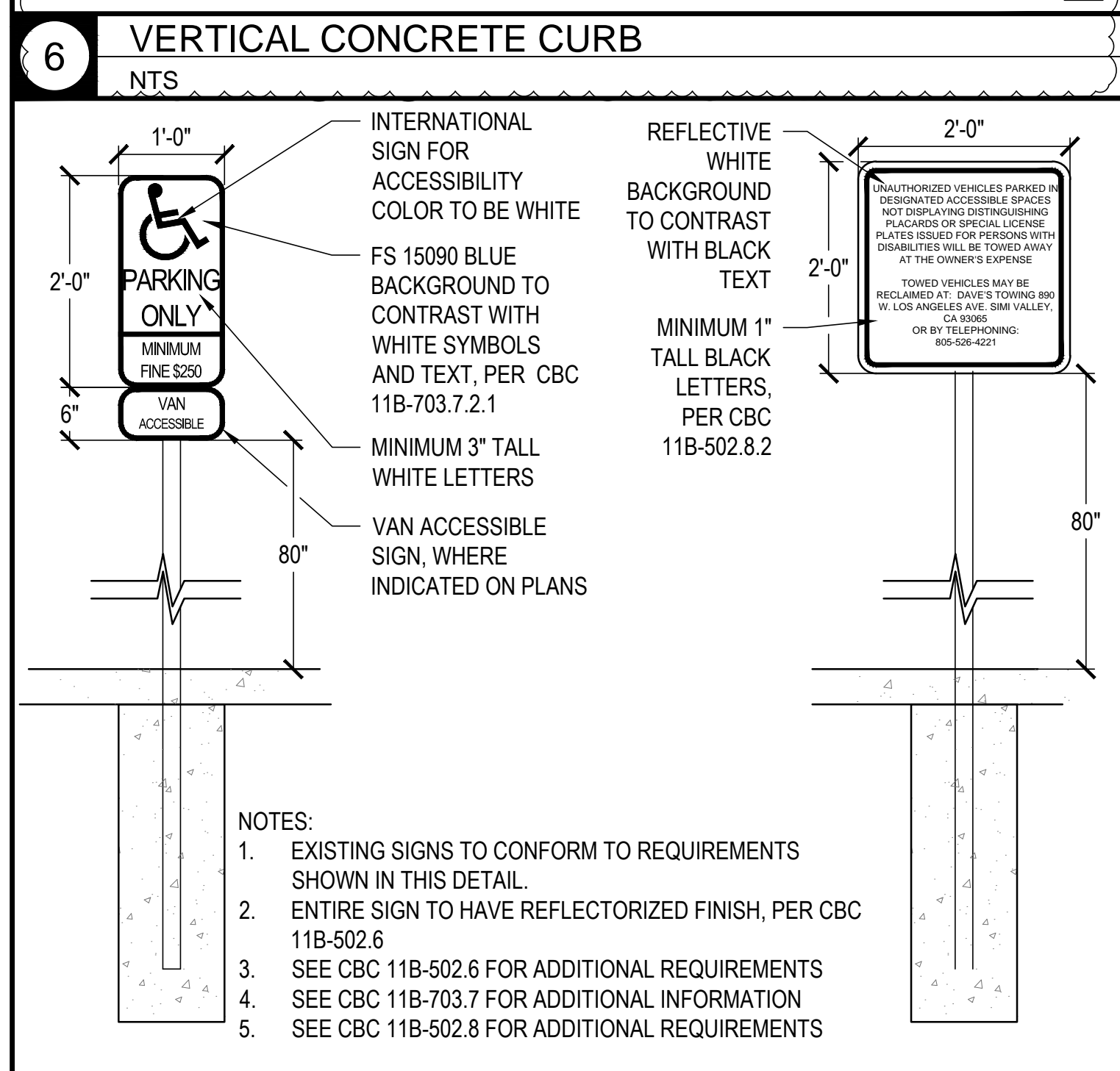
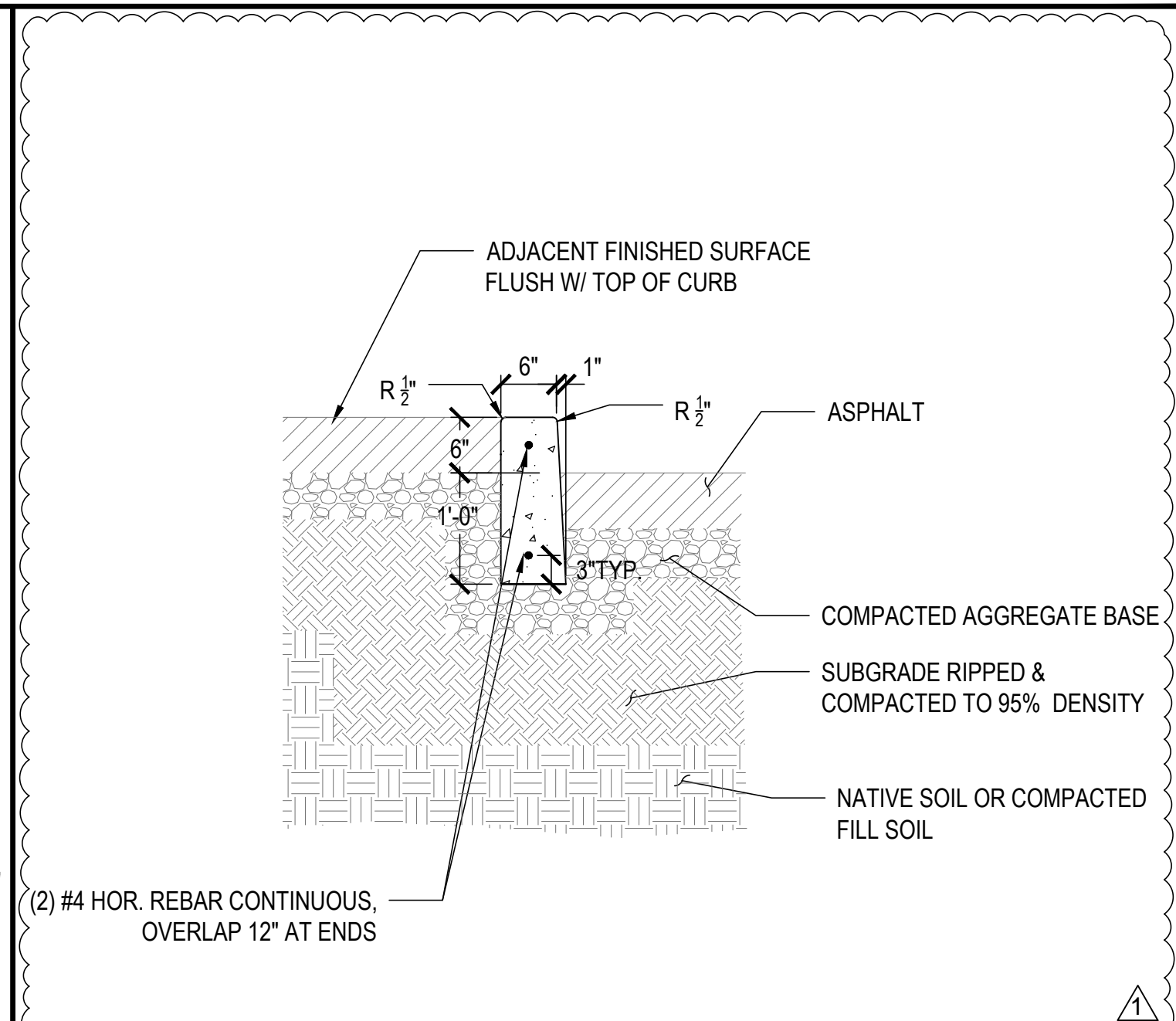
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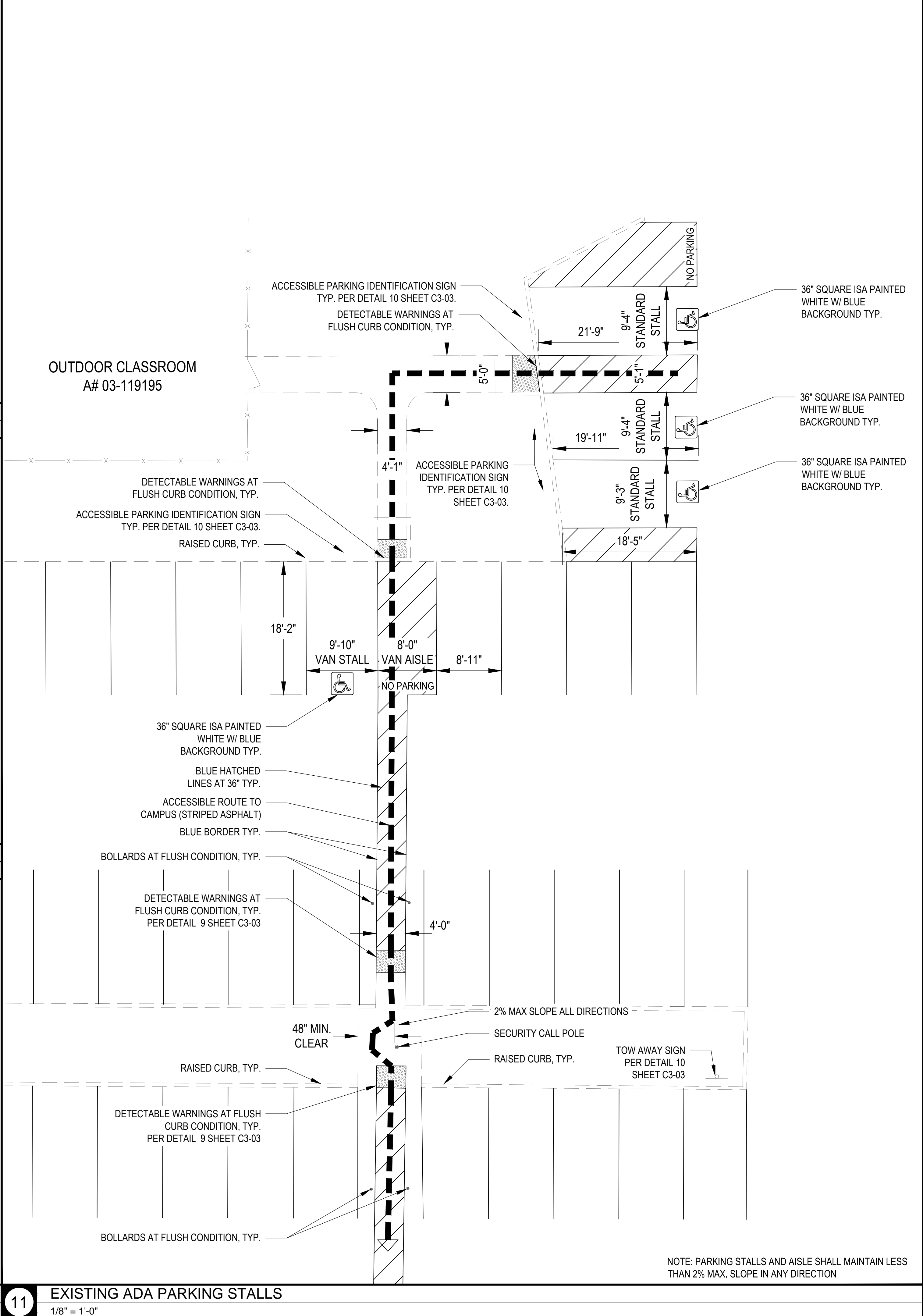
1 DRINKING FOUNTAIN / BOTTLE FILLING STATION & SIDE RAILS SCALE: NTS



9 DETECTABLE WARNING STRIP FOR SIDEWALK ADA RAMP SCALE: NTS



10 EXISTING ADA SIGNS NTS



11 EXISTING ADA PARKING STALLS 1/8" = 1'-0"

CONSTRUCTION DOCUMENTS

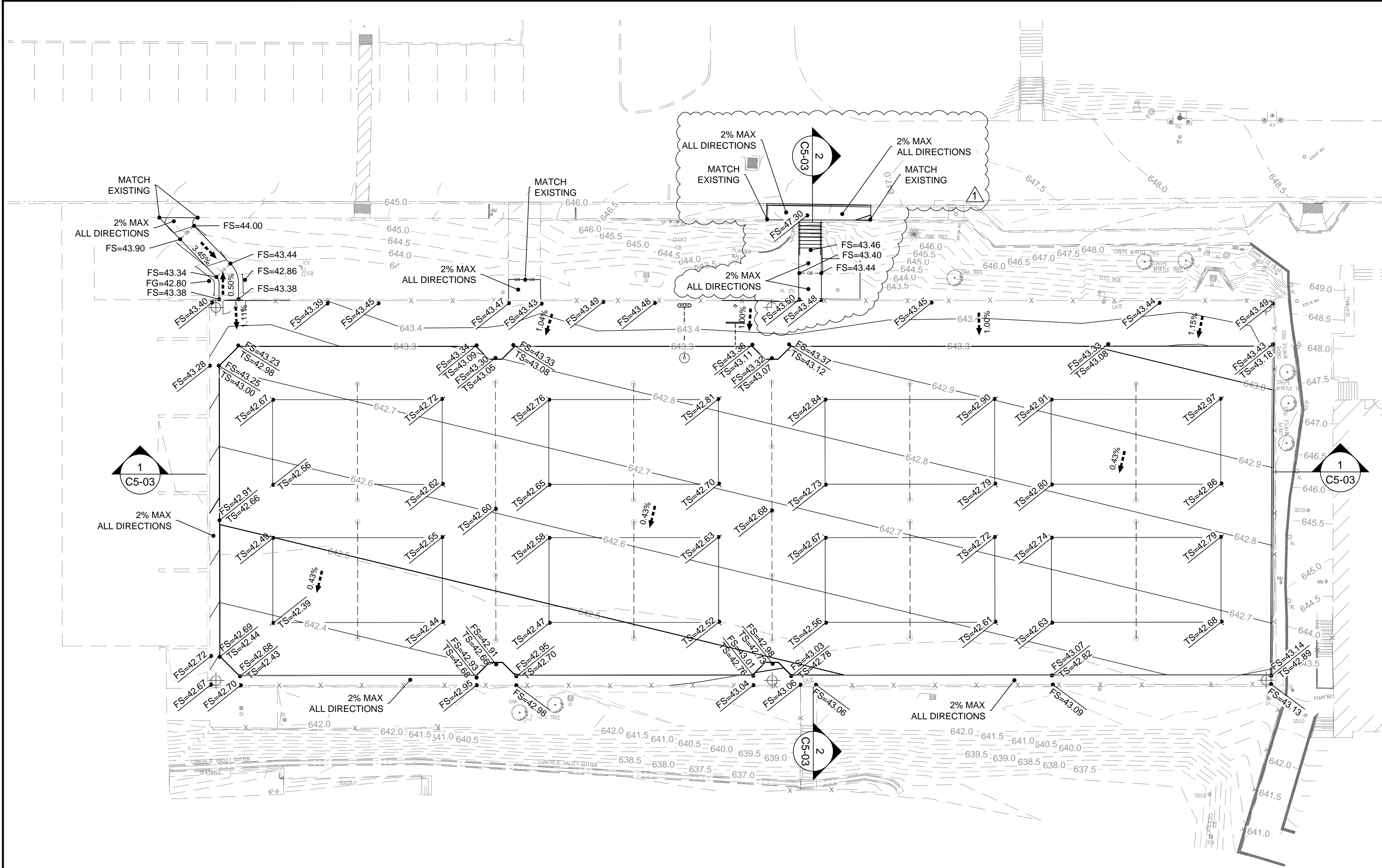
REV.		
ADDENDUM 1	6/9/23	

MOORPARK COLLEGE BEACH VOLLEYBALL COURTS

MOORPARK, CA
DESIGNED: BL
DATE: APR 4, 2023
DRAWN: SAW
PROJ. 21-152
SCALE:

SURFACING AND FENCING DETAILS

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GRADING LEGEND:

- FG FINISHED GRADE
- FS FINISHED SURFACE
- TS TOP OF SAND
- 0.1' PROPOSED CONTOUR
- GRADE BREAK
- 0.51% SLOPE ARROW (PERCENT)

GRADING NOTES:

- 1. TOP OF SAND ELEVATIONS TO BE SET 3" BELOW ADJACENT CONCRETE SIDEWALK.
- 2. ELEVATIONS SHOWN ARE FINISHED GRADE, CONTRACTOR TO ACCOUNT FOR SURFACING SUCH AS LANDSCAPE FINISHING MATERIAL AND HARDSCAPE WHEN GRADING SUBGRADE.
- 3. EARTHWORK TO BE PERFORMED IN ACCORDANCE WITH SPECIFICATIONS AND GEOTECHNICAL REPORT.

EARTHWORK NOTES:

	CUT	FILL
PROJECT EARTHWORK	2,714 CY	0 CY
TOTAL ESTIMATED EXPORT	2,714 CY	
COURT SAND IMPORT	2,023 CY	

- NOTES:
- 1. THE ENGINEER MAKES NO REPRESENTATION OR GUARANTEE REGARDING EARTHWORK QUANTITIES OR THAT THE EARTHWORK FOR THIS PROJECT WILL BALANCE DUE TO THE VARYING FIELD CONDITIONS, CHANGING SOIL TYPES, ALLOWABLE CONSTRUCTION TOLERANCES AND CONSTRUCTION METHODS THAT ARE BEYOND THE CONTROL OF THE ENGINEER.
 - 2. EARTHWORK QUANTITIES WERE CALCULATED USING EXISTING SURFACE ELEVATIONS AND PROPOSED SUBGRADE. IMPORTED MATERIALS FOR BASE OR SURFACING ARE NOT INCLUDED.
 - 3. EARTHWORK QUANTITIES DO NOT ACCOUNT FOR FOOTING AND FOUNDATION EXCAVATIONS, TRENCHING VOLUMES, OR RIP AND RE-COMPACT LOSSES.
 - 4. EARTHWORK QUANTITIES DO NOT ACCOUNT FOR SHRINK OR SWELL FACTORS.
 - 5. CONTRACTOR SHALL STOCKPILE EXPORT ON THE ADJACENT SITE AND AT A LOCATION ACCEPTABLE TO THE UNIVERSITY.
 - 6. VOLUME OF COURT SAND SHOWN IS FOR REFERENCE AND BUDGETARY PURPOSES ONLY. CONTRACTOR SHALL PERFORM THEIR OWN TAKE-OFFS TO DETERMINE QUANTITY OF COURT SAND REQUIRED FOR PROJECT.

CONSTRUCTION DOCUMENTS

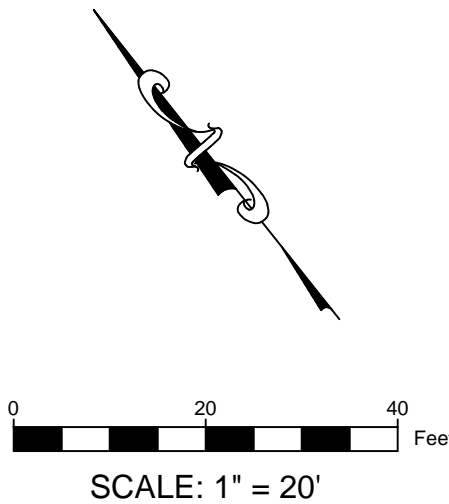
REV.	
ADDENDUM 1	6/9/23

MOORPARK COLLEGE
BEACH VOLLEYBALL
COURTS

MOORPARK, CA
DESIGNED: BL
DATE: APR 4, 2023
DRAWN: TML
PROJ. 21-152
SCALE: 1" = 20'

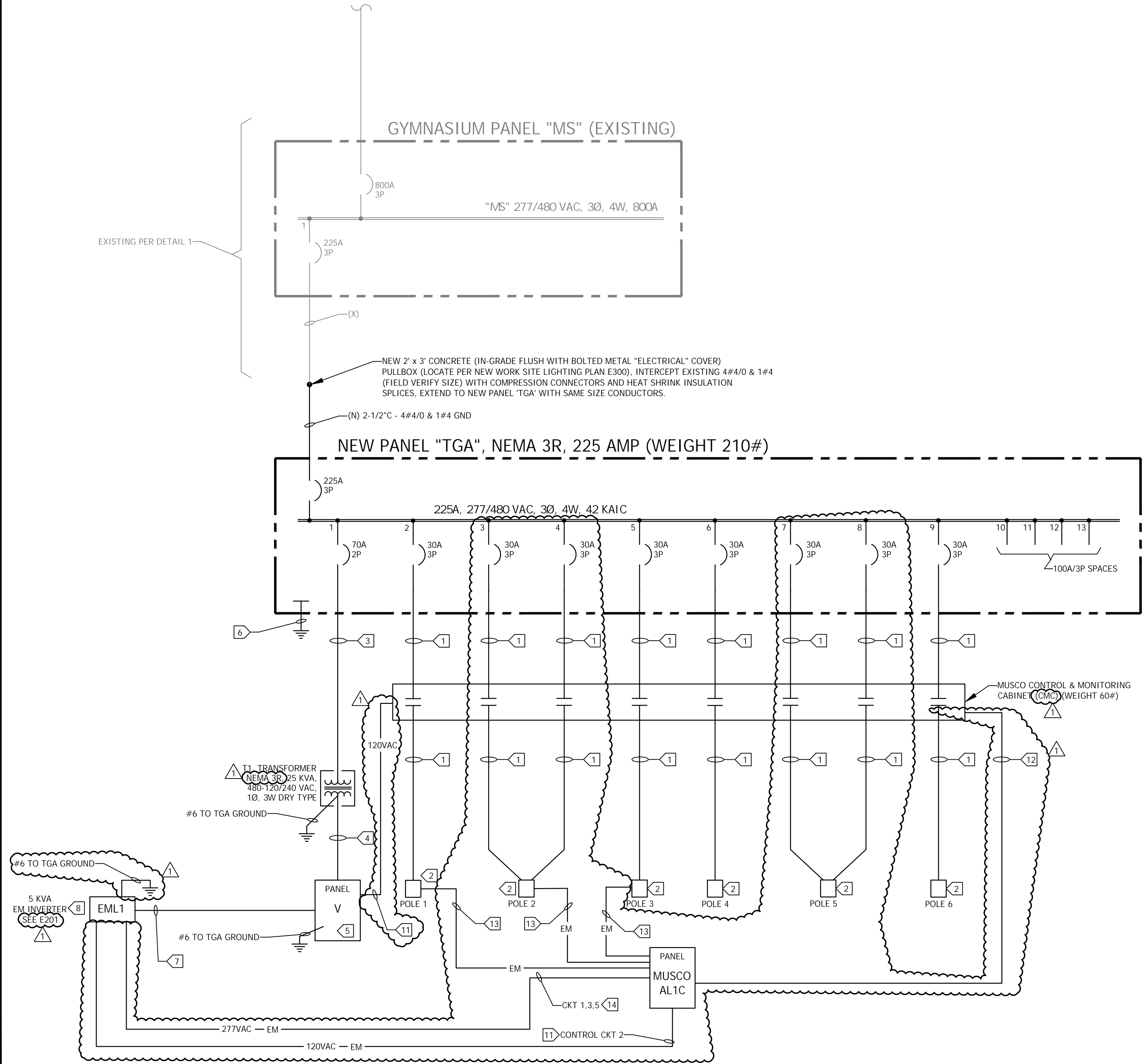
GRADING PLAN

DWG. NO.
C5-01



TIME: 4:07 pm
DATE: 9 June 2023
PATHNAME: G:\22537\EL\Sheets
DRAWING FILENAME: 22-537E200
DRAFTER: CM01

ELECTRICAL ENGINEER HAS VERIFIED
EXISTING POWER SOURCE IS SUFFICIENT
FOR NEW PROJECT ELECTRICAL LOADS



REVISED ELECTRICAL SINGLE LINE DIAGRAM
SCALE: NONE SAND VOLLYBALL COURTS

2
- E200

KEY NOTES:

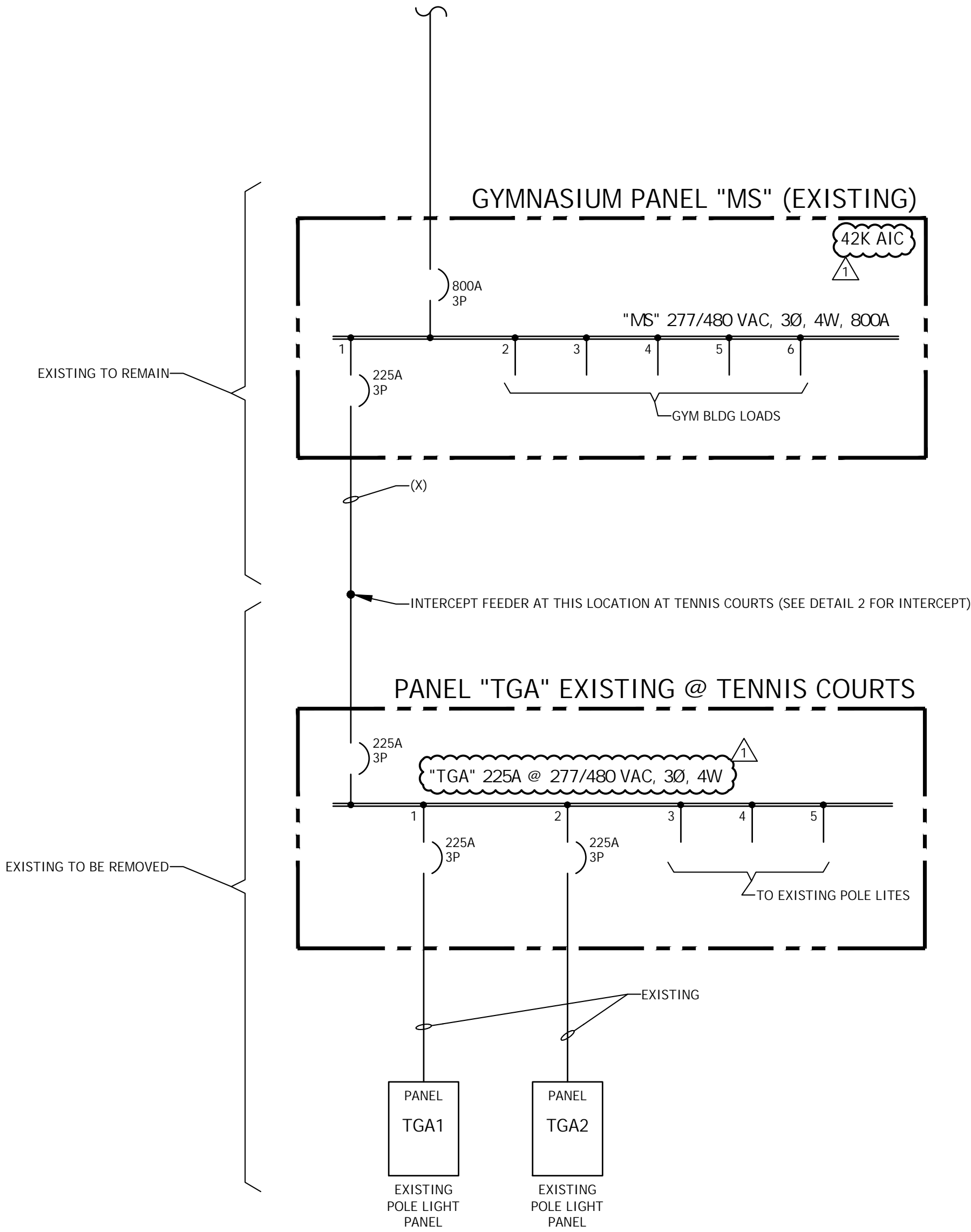
- 1" C 4#6 & 1#10 GND.
- MUSCO ELECTRICAL COMPONENTS ENCLOSURE MOUNTED ON POLE AT APPROXIMATELY 10'-0" AFF. FEEDER SHALL BE ROUTED INTERNAL TO POLE VIA UNDERGROUND CONDUIT ENTRY.
- 1" C - 2#4 & 1#6 GND.
- 1-1/2" C - 3#2/0 & 1#6 GND.
- SEE PANEL SCHEDULE PER E201.
- #2 UFER & 1#2 WITH 3/4" x 10'-0" GROUND ROD.
- 1" C - 2#4 & 1#10 GND.
- SEE MANUFACTURER SPEC SHEET E201 FOR TECHNICAL REQUIREMENTS/WEIGHT.
- 1" C - 2#10 & 1#10 GROUND TO EML1 VIA CONTACTORS IN MUSCO CONTROL & MONITORING CABINET.
- 1" C-2#6 & 1#10 GROUND.
- 1" C-2#12 & 1#12 GROUND.
- MULTIPLE CONDUITS:
 - 'S' 120VAC SIGNAL FROM EM TO E1 (NO CONTACTS) - 1" C-2#12 & 1#12 GROUND.
 - 'E1' 'NORMAL' POWER INPUT RELAY (120VAC NORMAL CONTROL POWER TO E1 COIL) - 1" C-2#12 & 1#12 GROUND.
 - 'E2' 'ZONE TRIGGER RELAY' 1" C-6#12 & 1#12 GROUND.
 - 'E6' 'CONTROL ON OFF RELAY' 1" C-6#12 & 1#12 GROUND.
- 1" C-2#10 & 1#10 GROUND.
- 1" C-6#10 & 1#10 GROUND.

MS LOAD SUMMARY CALCULATIONS

PANEL/LOAD	LOAD
MS	= 220 KVA
MS x 25%	= 55 KVA
VOLLEYBALL	= 40 KVA
TOTAL PROJECT LOAD (277/480 VAC)	= 315 KVA
IN AMPS AT 277/480 VAC, 3Ø, 4W	= 380 AMPS

SHEET NOTES:

- VERIFY LOCATION OF ALL BUILDINGS AND APPENDITURES ON ARCHITECTURAL AND CIVIL PLANS.
- CONTRACTOR SHALL VERIFY LOCATION & REQUIREMENTS OF ALL ELECTRICAL DEVICES PRIOR TO BID. ROUGH-IN & INSTALLATION.
- FIELD VERIFY LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO TRENCHING. SCHEDULE AND COORDINATE ALL SITE WORK WITH OWNER PRIOR TO ANY TRENCHING.
- SEE MUSCO PLANS FOR EQUIPMENT CONNECTIONS, EQUIPMENT PROVIDED, INSTALLATION, & PROGRAMMING REQUIREMENTS



EXISTING ELECTRICAL SINGLE LINE DIAGRAM
SCALE: NONE TENNIS COURTS

1
- E200



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DSA
SUBMITTAL



REV.

ADDENDUM 1 6/9/23

MOORPARK COLLEGE
BEACH VOLLEYBALL
COURTS

MOORPARK, CA

DESIGNED: KL
DATE: APRIL 4, 2023
DRAWN: LK / DS
PROJ. 22-537
SCALE: AS NOTED

SHEET TITLE
ELECTRICAL SINGLE
LINE AND PANEL
SCHEDULES

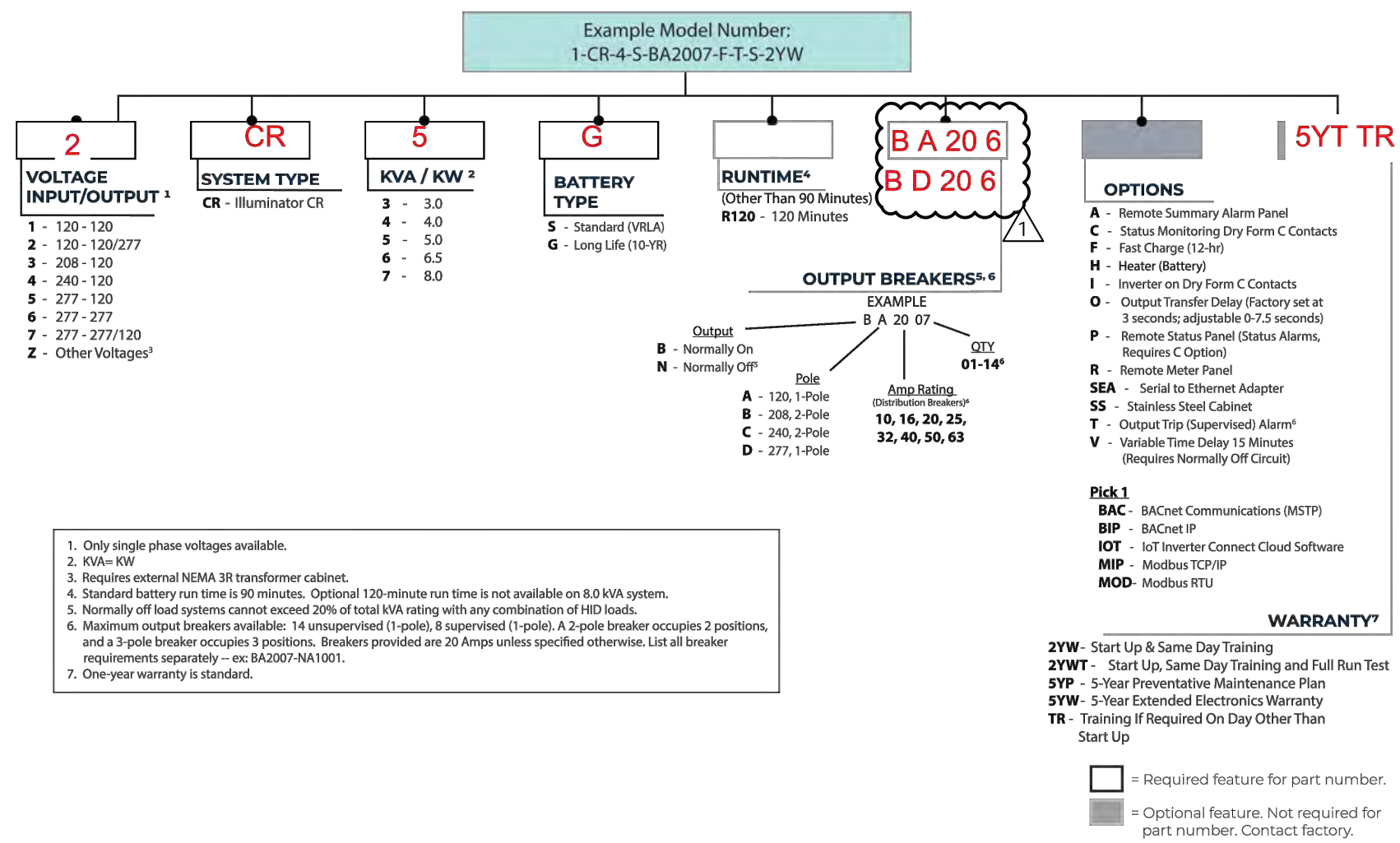
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E200

TIME: 4:07 pm
DATE: 9 June 2023
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DRAFTER: CM01

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ORDERING GUIDE



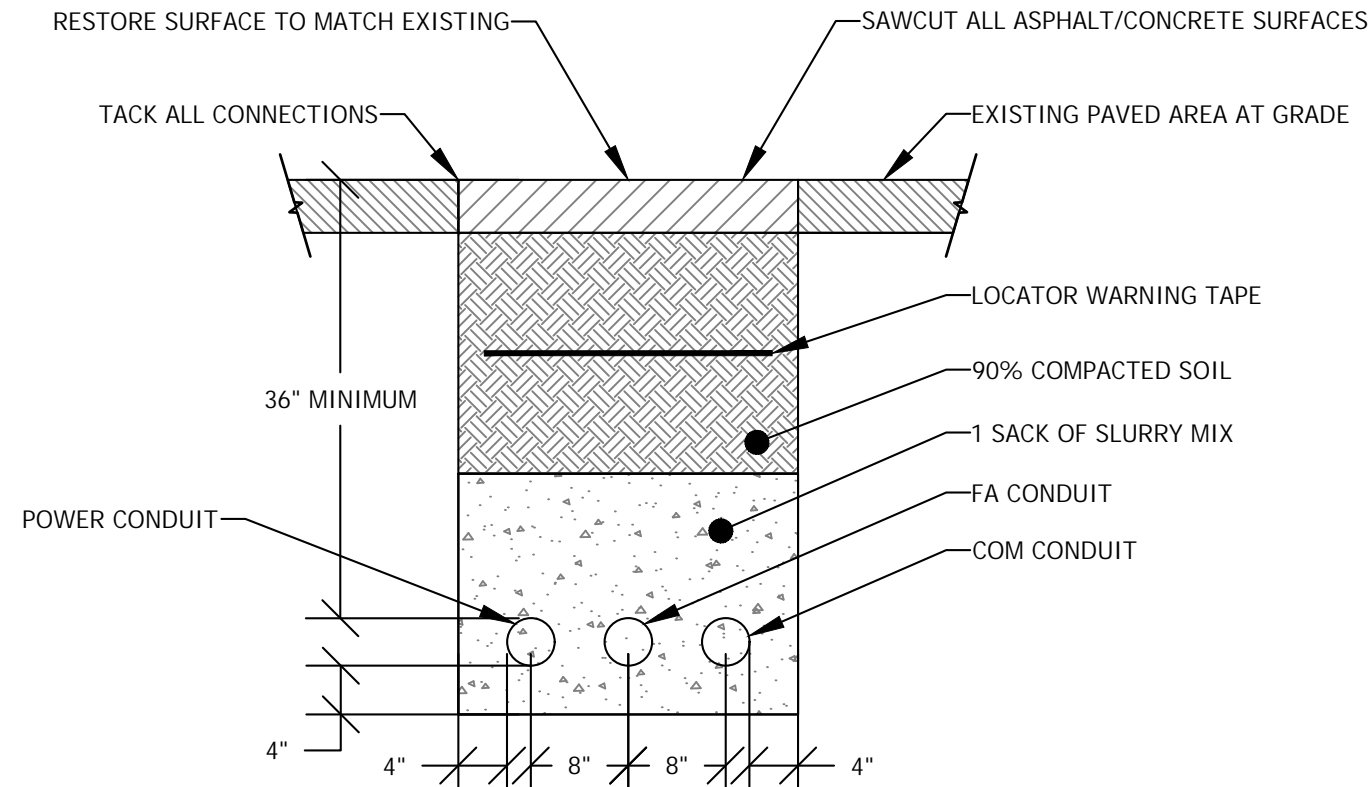
DIMENSIONS

Model Reference	Electronics Module										Batteries							
	Power Rating (kW / KVA)				# of Phases						Voltage (VDC)							
	Efficiency @ Full Load (Typical)				Audible Noise (dBA @ 1m)						Current (Amperes)							
	Heat Loss (BTU)				Cabinet Dimensions						Number of Batteries							
	Run Time (min)				Weight						Run Time (min)							
	Width				Depth						Weight							
	in/cm				in/cm						lbs/kg							
	Height				Weight						Run Time (min)							
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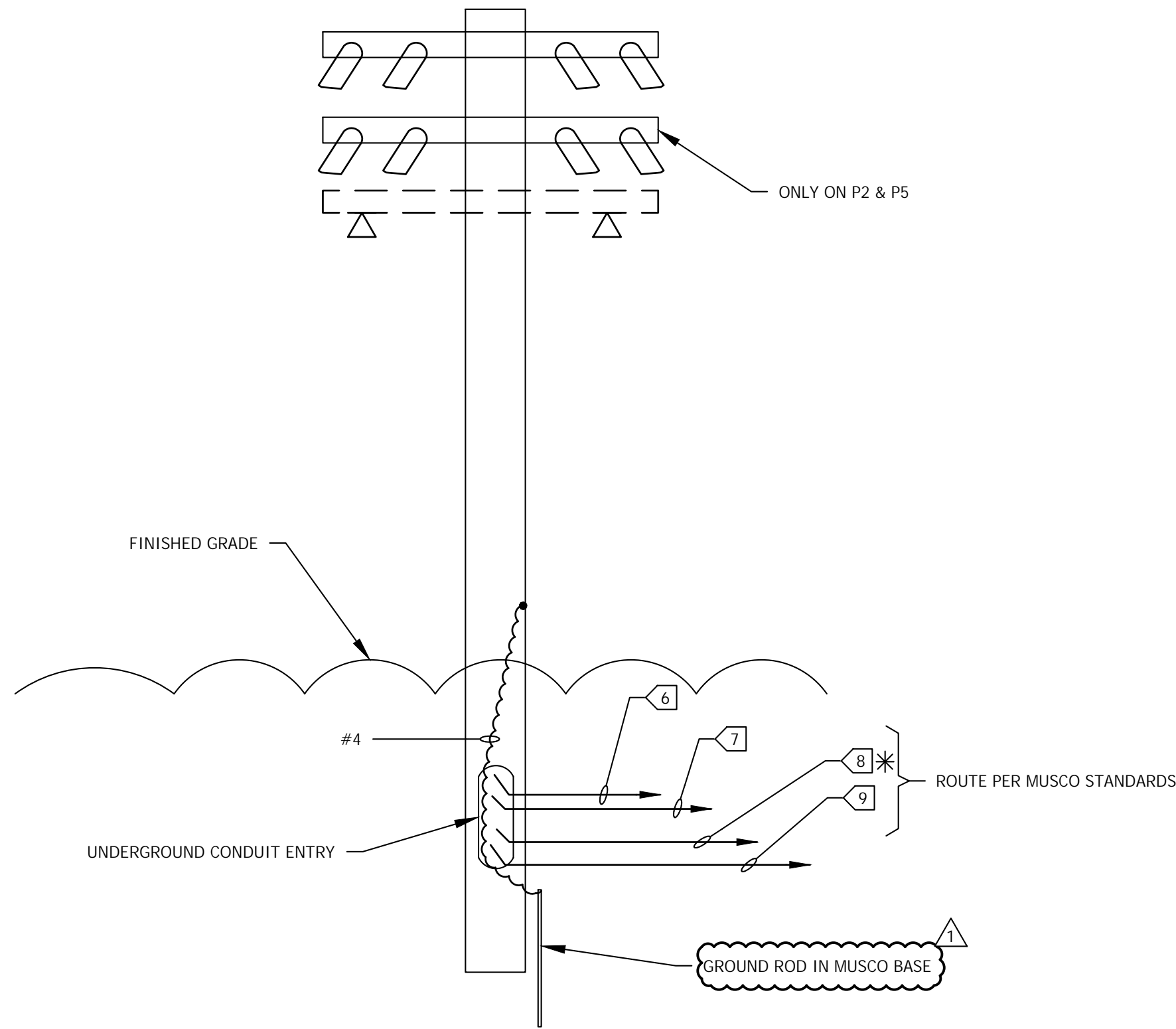
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PATHNAME: G:\22537\EL\Sheets
DRAWING FILENAME: 22-537E300
DRAFTER: CM01
other than adding "as-built" information, are allowed by anyone other than authorized Lloyd Consulting Group, LLC employees.

DETAIL NOTES:

- ALL CONDUITS TO BE PROVIDED WITH METERED PULLWIRES THEIR ENTIRE LENGTH.
- ALL CONDUITS BENDS SHALL BE FACTORY BENDS WITH MINIMUM 12 TIMES DIAMETER. BEND RADIUS.
- ALL CONCRETE TO BE 5 SACK MIX OR 2000psi
- ALL FEEDERS TO BE PER ELECTRICAL SINGLE LINE SHEET E200.



DUCTBANK SECTION 3
SCALE: NONE



P1, P2, P3 LIGHT POLES
(* P2 & P5 HAVE (2) SET OF COURT FIXTURES WHICH EQUALES (2) SETS OF (8) 2
SCALE: NONE IDENTICAL TO P4, P5, P6 EXCEPT FOR (7) NOT PRESENT (7) ONLY PRESENT ON P1, P2, P3

SHEET NOTES:

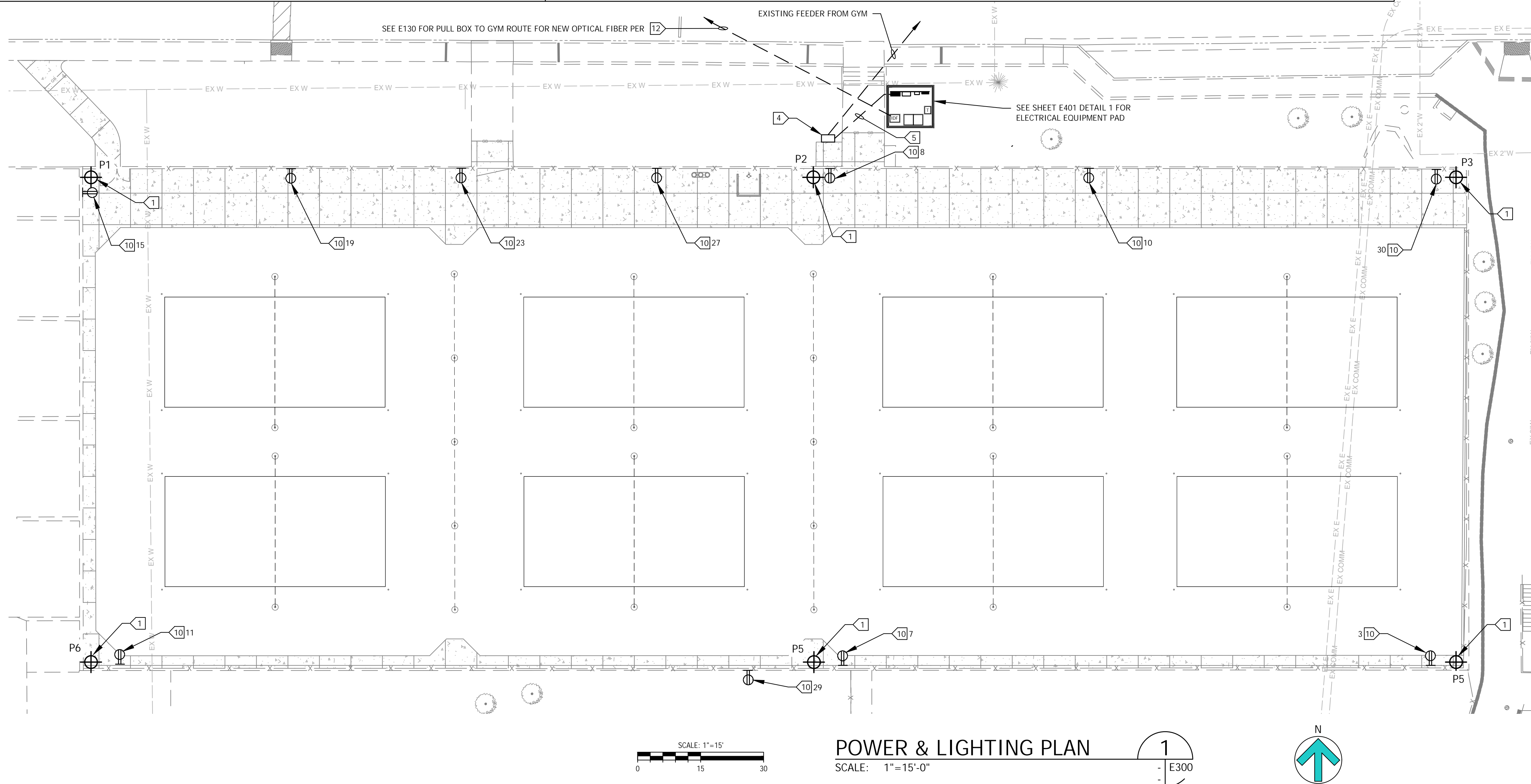
- CONTRACTOR SHALL VERIFY LOCATION, TRIM, AND REQUIREMENTS OF ALL LIGHT FIXTURES AND CONTROL PRIOR TO BID PROPOSAL, ROUGH-IN, AND FINISH INSTALLATION.
- CONTRACTOR SHALL, IN ROUTING ALL CIRCUITS, INCREASE CONDUCTOR & CONDUIT SIZE TO ALLOW FOR VOLTAGE DROP SHOULD THE CONTRACTOR EXCEED ROUTING INDICATED ON DRAWING. ENGINEER OF RECORD MUST BE NOTIFIED PRIOR TO ANY DEVIATIONS FROM APPROVED PLAN CHECK (PERMIT SET) DRAWINGS.
- CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES AS REQUIRED TO INSTALL CONDUCTORS PER CONDUCTOR MANUFACTURERS RECOMMENDATIONS, PER THE NATIONAL ELECTRICAL CODE AND PER LOCAL AUTHORITIES HAVING JURISDICTION.
- 3/4" CONDUIT MINIMUM UNLESS OTHERWISE NOTED, 1" MINIMUM UNDERGROUND.

KEY NOTES:

- MUSCO POLE (PROVIDED BY OTHERS) LOCATION: CONTRACTOR INSTALLED & CONNECTED PER MUSCO STANDARDS, SEE DETAIL 2 FOR CONNECTIONS
- BLEACHERS.
- NEW ELECTRICAL EQUIPMENT PAD BY CONTRACTOR. CONTRACTOR TO CONNECT ALL EQUIPMENT. CONTRACTOR TO PROVIDE AND CONNECT ALL EQUIPMENT, EXCEPT MUSCO WILL PROVIDE AL1C AND CONTROL AND MONITORING CABINET BUT CONTRACTOR TO INSTALL AND TERMINATE THESE ITEMS PER MUSCO STANDARDS.
- INTERCEPT PULL BOX PER E200 DETAIL 2.
- NEW FEEDER PER E200.
- 1" C-2 CAT6 WET LOCATION FOR FROM CAMERA TO IDF.
- 1" C-2 #10 & 1 #10 GROUND TO EML1 VIA AL1C CONTROLS FOR EM FIXTURE, ONE CIRCUIT PER EACH POLE PER E201 PANEL SCHEDULE
- POWER TO POLE VIA E200 1" C-4 #6 & 1 #10 GROUND.
- 1" C.O. SPARE TO ELECTRICAL EQUIPMENT PAD.
- WP GFCI HOME RUN TO PANEL 'V', 1" C-2 #10 & 1 #10 GROUND (CIRCUIT AS NOTED).
- 1" C.O. SPARE TO PANEL 'V' FROM 12"x18" LANDSCAPE BOX. PROVIDE PULL STRING.
- 1" C-6 STRAND MULTI MODE WET LOCATION OPTICAL FIBER TO GYM MDF. TERMINATE PER COLLEGE STANDARDS AT GYM MDF & VOLLEYBALL IDF. VOLLEYBALL IDF SHALL PROVIDED WITH 24 PORT SWITCH, FAN, POWER DISTRIBUTION, GROUND BUS.

P1, P2, & P3 HAVE EM LIGHTING

SEE E600 FOR DUCT BANK SECTION FOR ALL UNDERGROUND CONDUITS SYSTEMS



POWER & LIGHTING PLAN
SCALE: 1"=15'-0"



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SUITE 515-324
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REV.		
ADDENDUM 1	6/9/23	

MOORPARK COLLEGE
BEACH VOLLEYBALL
COURTS

DESIGNED:	KL
DATE:	APRIL 4, 2023
DRAWN:	LK / DS
PROJ.	22-537
SCALE:	AS NOTED

SHEET TITLE
POWER & LIGHTING
PLAN

DWG. NO.

E300

DATE: 9 June 2023
TIME: 4:08 pm

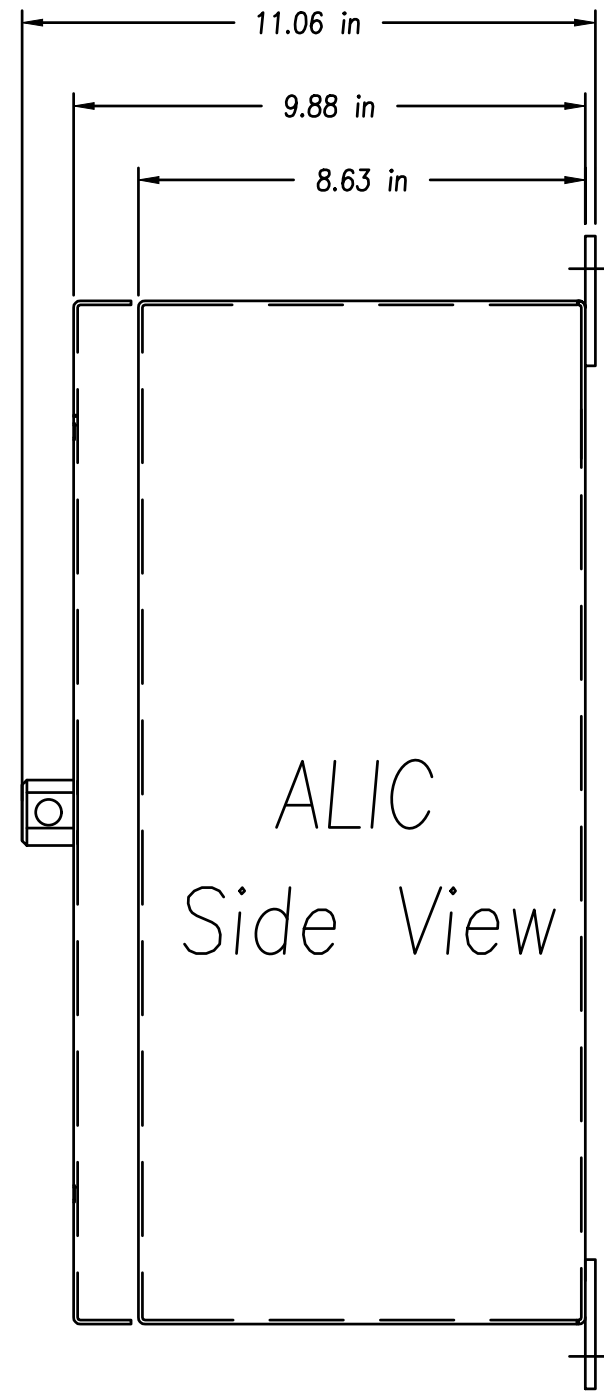
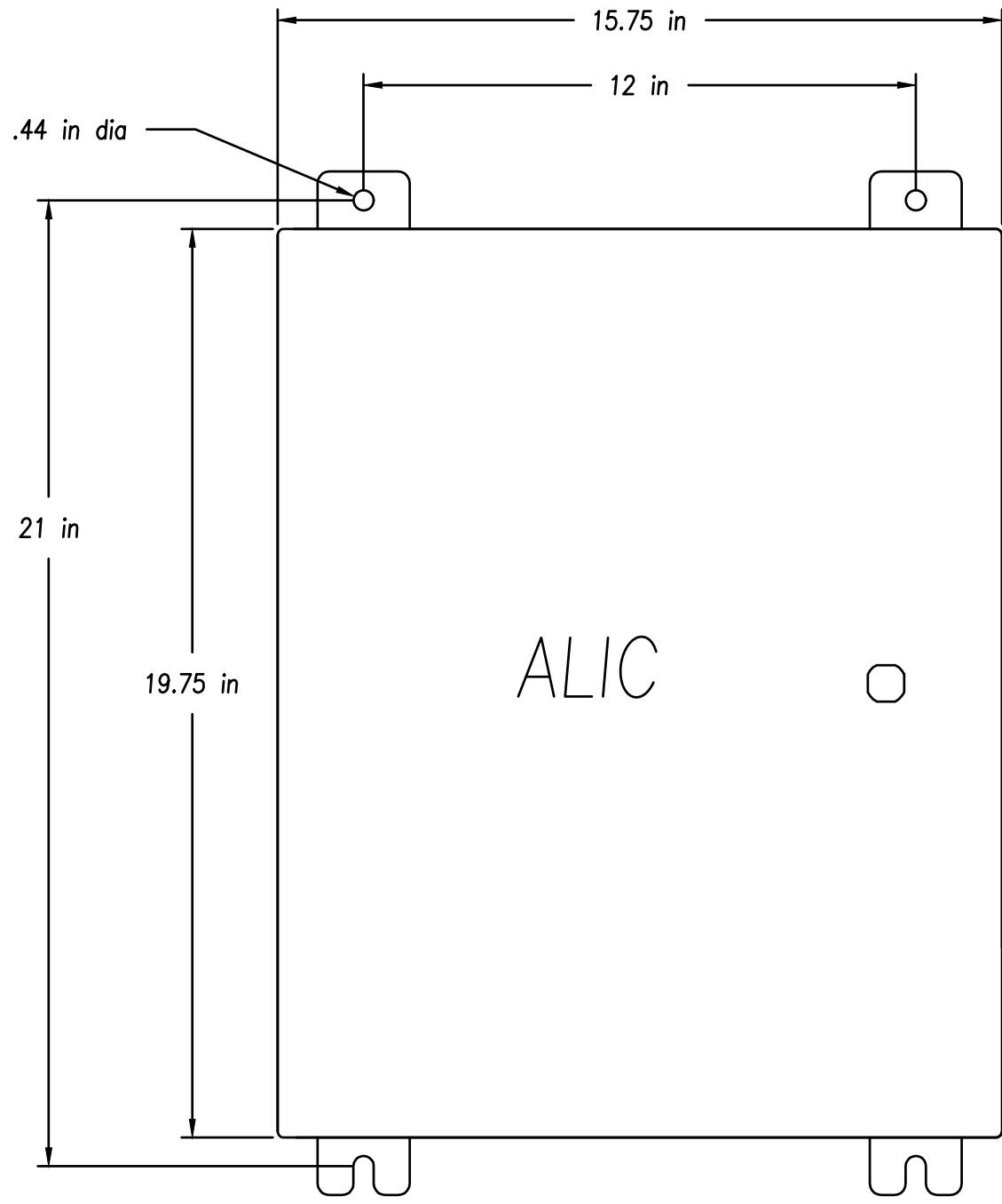
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DRAWING FILENAME: 22-537E302

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XREF: none
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Author: CM01
Date: 6/9/2023 4:08 PM
Project: 22-537E302.dwg

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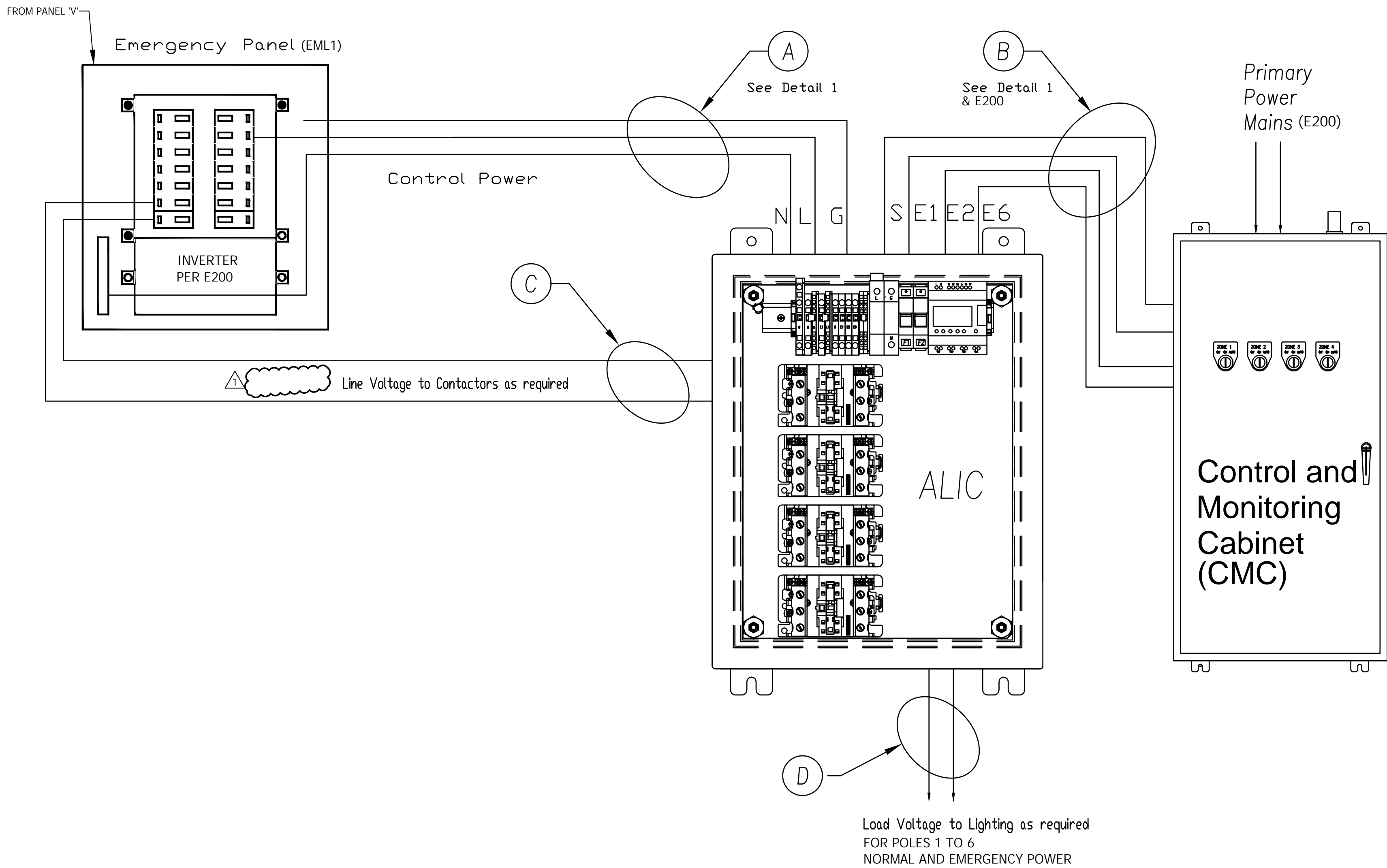


MUSCO:
Auxiliary Lighting Interface Cabinet (ALIC)
Standard Operation and Functionality

Functionality
The ALIC (UL924) provides monitoring of Controls and Monitoring Cabinet zones and primary 120V power. For the ALIC to work correctly, it and the emergency lighting fixtures will need to be powered from an Emergency Distribution Panel. This Emergency Distribution Panel is assumed to be powered from a UPS or automatic transfer switch, whose operation is to control the power source, either the generator or the mains.

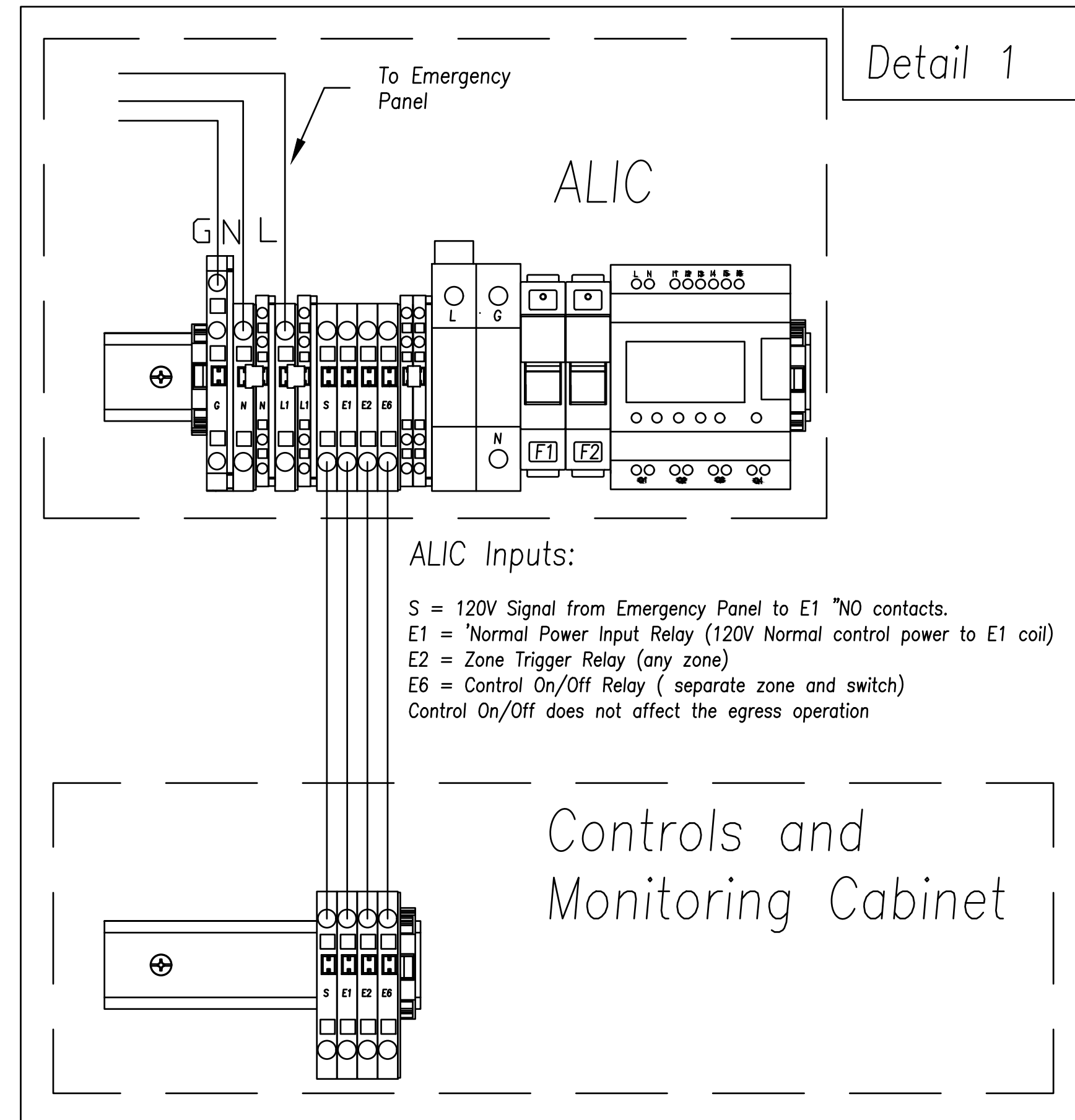
IMPORTANT: The 120 volt power (wire E1) from the Controls Monitoring Cabinet is being monitored as the mains or normal power. For best operation, the Controls and Monitoring Cabinet should be powered from the field lighting distribution panel or what is to be considered the main distribution panel.

- Standard sequence of egress operation
- 1) The ALIC sends 120V over the S wire to the normally open (N.O.) contacts of the E1, E2 and E6 (if present) relays in the CMC.
 - a) E1 is connected to the control circuit of the CMC to monitor Normal Power.
 - b) E2 is connected to the monitored zone(s) to monitor when the zone(s) is on
 - c) E6 is connected to the override zone if present. This zone can manually turn on or schedule the egress fixture. The manually override does not affect the egress operation
 - 2) Normal power (the mains) has an interruption, either sustained or momentary.
 - 3) E1 opens it's contacts cutting the monitored normal power input from the ALIC.
 - 4) The ALIC checks the monitored zone input from E2.
 - a) If the input was present the ALIC will output for egress. The ALIC will continue to output as long as the backup system provides power. Once normal power is restored and the ALIC receives an input from E1 the ALIC will delay off the egress output for 20min.
 - b) If the input was not present the ALIC will not output for egress



Contractor Notes:

Contractor is responsible for providing (A,B,C,D) cables and installation of cables from emergency panel to ALIC and from ALIC to Controls and Monitoring Cabinet.



ALIC Inputs:

S = 120V Signal from Emergency Panel to E1 "NO" contacts.
E1 = Normal Power Input Relay (120V Normal control power to E1 coil)
E2 = Zone Trigger Relay (any zone)
E6 = Control On/Off Relay (separate zone and switch)
Control On/Off does not affect the egress operation



7349 N. VIA PASEO DEL SUR
SUITE 515-324
SCOTTSDALE, ARIZONA 85258
PH 602.635.4226

LUCI & ASSOCIATES INC.
CONSULTING ELECTRICAL ENGINEERS

3251 CORTE MALPASO, #511
CAMARILLO, CA 93012- 8094
(805) 389- 6520 FAX (805) 389- 6519

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DSA
SUBMITTAL



REV.
ADDENDUM 1 6/9/23

MOORPARK COLLEGE
BEACH VOLLEYBALL
COURTS

MOORPARK, CA
DESIGNED: KL
DATE: APRIL 4, 2023
DRAWN: LK / DS
PROJ. 22-537
SCALE: AS NOTED

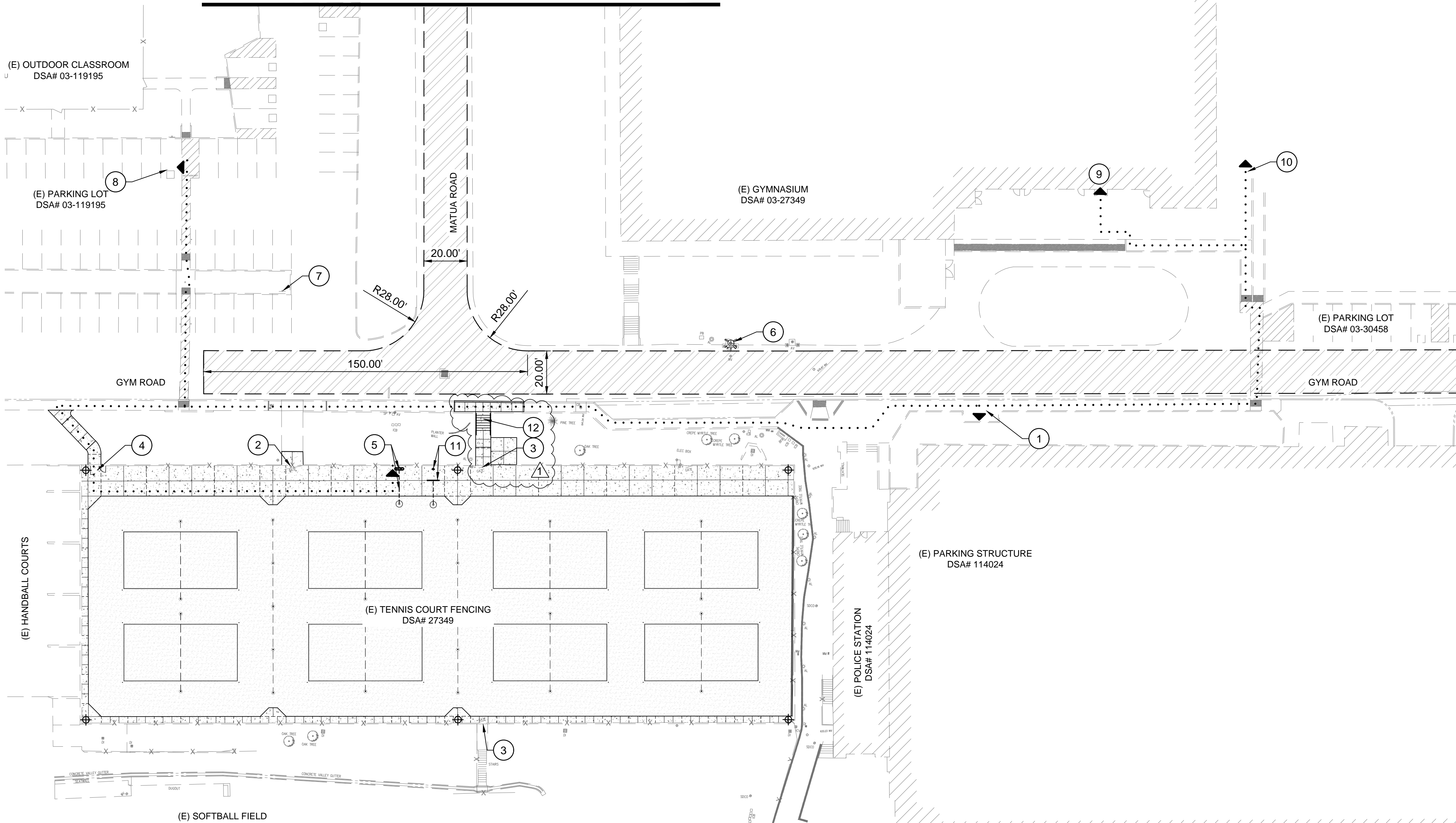
SHEET TITLE
MUSCO CONTROL
SYSTEM SUMMARY

DWG. NO.
E302

(E) PARKING LOT CALCULATION - DSA# 03-119195

REGULAR	49
ACCESSIBLE	5
TOTAL	54

SEE SHEET G-01 FOR CONTINUATION



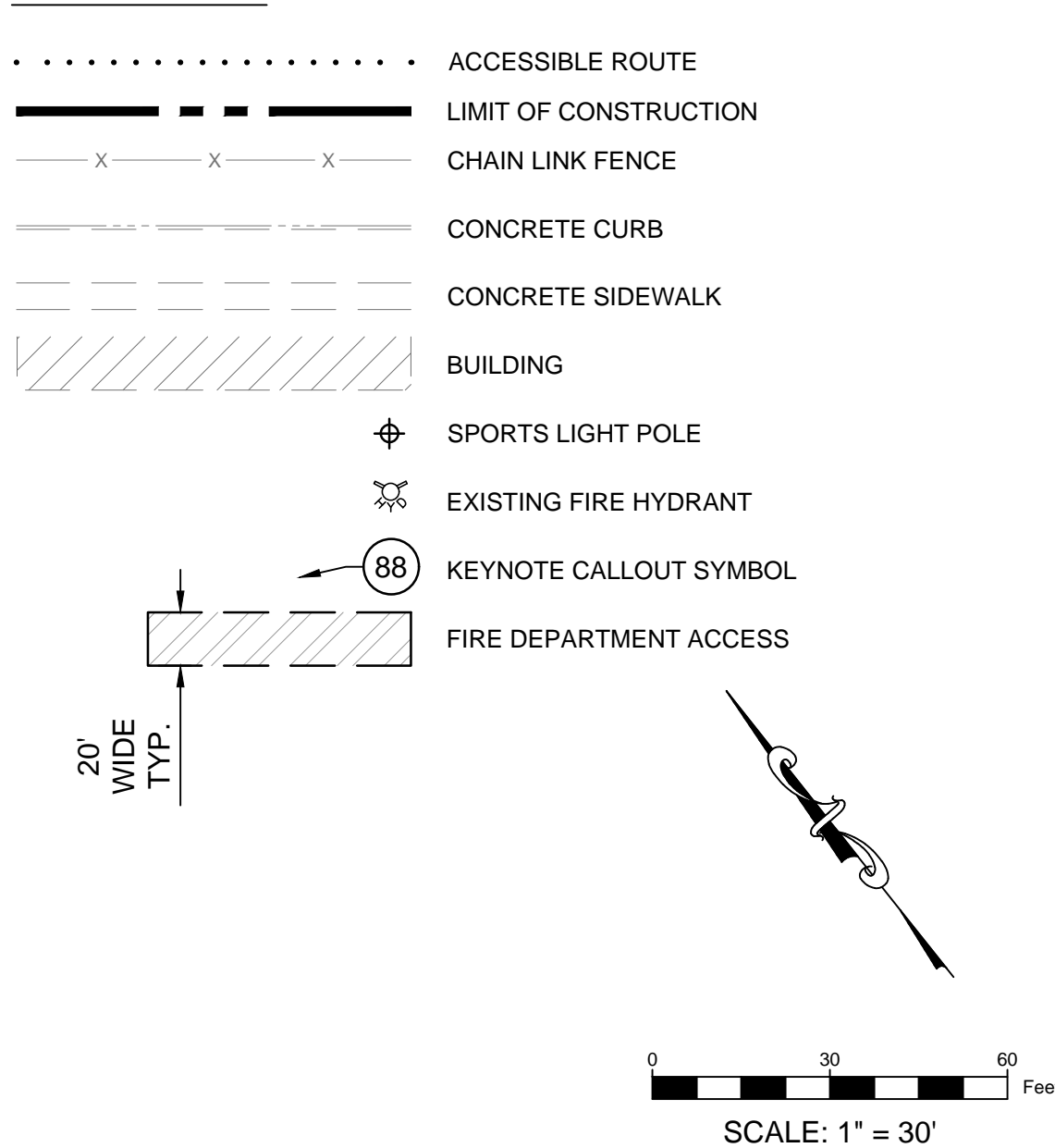
GENERAL NOTES:

- CONTRACTOR TO VERIFY THAT ALL BARRIERS IN THE PATH OF TRAVEL HAVE BEEN REMOVED OR WILL BE REMOVED UNDER THIS PROJECT AND PATH OF TRAVEL COMPLIES WITH CBC 11B-206.
- CONTRACTOR SHALL MAINTAIN FIRE LANE ACCESS THROUGHOUT PROJECT.
- DO NOT INTERRUPT EXISTING UTILITY SERVICES SERVING OCCUPIED OR USED FACILITIES, EXCEPT WHEN AUTHORIZED IN WRITING BY AND COORDINATED WITH OWNER.
- PROTECT EXISTING & NEW STRUCTURES, UTILITIES, SIDEWALKS, PAVEMENTS, TREES AND SHRUBS FROM DAMAGE DURING CONSTRUCTION.
- REFER TO CIVIL AND ELECTRICAL DRAWINGS FOR EXTENT OF CIVIL AND ELECTRICAL WORK.
- ACCESSIBLE PATH OF TRAVEL (P.O.T.) 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. ACCESSIBLE 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" AND LESS THAN 80". ARCHITECT SHALL VERIFY THAT THERE ARE NO BARRIERS IN THE ROUTE OF TRAVEL.
- DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE STATEMENT: THE P.O.T. IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS IS COMPLIANT WITH THE CURRENT APPLICABLE CALIFORNIA BUILDING CODE (CBC) ACCESSIBILITY PROVISIONS FOR PATH OF TRAVEL REQUIREMENTS FOR ALTERATIONS AND STRUCTURAL REPAIRS. AS PART OF THE DESIGN OF THIS PROJECT, THE P.O.T. WAS EXAMINED AND ANY ELEMENTS, COMPONENTS OR PORTIONS OF THE P.O.T. THAT WERE DETERMINED TO BE NON-COMPLIANT (A) HAVE BEEN IDENTIFIED, AND (B) THE CORRECTIVE WORK NECESSARY TO BRING THEM INTO COMPLIANCE HAS BEEN INCLUDED WITHIN THE SCOPE OF THIS PROJECT'S WORK THROUGH DETAILS, DRAWINGS AND SPECIFICATIONS INCORPORATED INTO THESE CONSTRUCTION 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 A FINDING OF UNREASONABLE HARDSHIP ARE SO INDICATED IN THESE CONSTRUCTION DOCUMENTS. DURING CONSTRUCTION, IF P.O.T. ITEMS WITHIN THE SCOPE OF THE PROJECT REPRESENTED AS CODE COMPLIANT ARE FOUND TO BE NON-CONFORMING BEYOND REASONABLE CONSTRUCTION TOLERANCES, THEY SHALL BE BROUGHT INTO COMPLIANCE.

KEY NOTES:

- (E) PUBLIC BUS STOP
- (E) 8' WIDE MAINTENANCE GATE, PER DETAIL 10 ON SHEET C3-02.
- (E) 4' WIDE MAINTENANCE GATE, PER DETAIL 10 ON SHEET C3-02.
- 3' WIDE MAINTENANCE AND 4' WIDE ACCESSIBLE PEDESTRIAN GATE, PER DETAIL 9 ON SHEET C3-02.
- ACCESSIBLE DRINKING FOUNTAIN / BOTTLE FILLER PER DETAIL 1 ON SHEET C3-03.
- (E) FIRE HYDRANT
- (E) SITE ACCESSIBLE/TOW-AWAY SIGNAGE FOR PARKING LOT, SEE DETAIL 10 ON SHEET C3-03.
- (E) ACCESSIBLE PARKING AND SIGNAGE PER DSA APPLICATION # 03-119195, SEE ENLARGEMENT DETAIL 11 ON SHEET C3-03.
- (E) ACCESSIBLE PUBLIC RESTROOM
- (E) CAMPUS PATH OF TRAVEL
- SAND WASH STATION, PER DETAIL 11 ON SHEET C3-02 AND UTILITY PLAN ON SHEET C7-01.
- CONCRETE STAIR PER DETAIL 1 ON SHEET C1-00.

LEGEND



810

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.

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 Buildings*.

PROJECT INFORMATION			
School District/Owner: Moorpark College			
Project Name/School: Moorpark College Beach Volley Ball Courts			
Project Address: 7075 Campus Road, Moorpark, CA 93021			
FIRE & 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 <input type="checkbox"/>	No <input checked="" type="checkbox"/>
2.	Was the fire hydrant water flow test performed as part of this LFA review?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
3.	Is the project located within a designated fire hazard severity zone (FHSZ) as established by Cal-Fire? (If yes, indicate FHSZ classification below.)	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Refer to the following website for FHSZ locations: http://egis.fire.ca.gov/FHSZ/		Moderate <input type="checkbox"/>	High <input type="checkbox"/> Very High <input type="checkbox"/>
Wildland Interface Area (WIFA) (If any designations are checked, project design must meet the requirements of CBC Chapter 7A.)			WIFA <input type="checkbox"/>

DSA 810
FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

CONDITION MEANS AND METHODS RESOLUTION		ALTERNATE ACCEPTED			
		Yes	No	N/A	N/R
4.	Emergency vehicle access roadways do not meet CFC requirements.				
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.				

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) INFORMATION	
LFA Agency Name: _____	
LFA Review Official: _____	
Title: _____	Work Phone: _____
Work Email: _____	
LFA Reviewer's Signature: _____ Date: _____	



CONSTRUCTION
DOCUMENTS

REV.		
ADDENDUM 1	6/9/23	

MOORPARK COLLEGE
BEACH VOLLEYBALL
COURTS

DESIGNED:	BL
DATE:	APR 4, 2023
DRAWN:	TML
PROJ.	21-152
SCALE:	1" = 30'

SITE ACCESS
PLAN
DWG. NO.
G-02

GEOTECHNIQUES

1645 Donlon Street, Ste. 107
Ventura, California 93003
(805) 456-9585, (805) 658-8952

January 23, 2023
Project No. 1003.046

Moorpark College
Facilities, Maintenance & Operations
7075 Campus Road
Moorpark, California 93021

Attention: Mr. John Sinutko, Director of Facilities, Maintenance & Operations

Subject: Geotechnical Update, Volleyball Court Light Standards, Moorpark College, Moorpark, California

Dear Mr. Sinutko:

This letter report serves as an update to the original geotechnical study¹ and grading report² to provide recommendations for the design of foundation support for Musco lights planned around the perimeter of the proposed volleyball courts at Moorpark College. For this update, we have reviewed pertinent boring logs and laboratory data from the original study and the original grading plan and compaction test data to provide recommendations for foundation design for the new light standards.

PROPOSED PROJECT

The existing six tennis courts located south of the gymnasium will be converted to sand volleyball courts. The proposed Musco lights are anticipated to be up to about 60 feet high and will be located at or near the four corners and at regular intervals along both sides of the long axis of the court pad area perimeter. The Musco lights will be supported by drilled pier foundations. The asphalt concrete surface of the tennis courts will be removed to be replaced by a sand substrate for the 'beach' volleyball courts. The layout of the Musco lights relative to the volleyball courts is shown on Plate 1 – Site Layout Plan.

SITE CONDITIONS

The existing tennis courts are constructed on a level, graded fill pad with between about 8 and 16 feet of fill from the north to the south, respectively, according to the original grading plan (1965) which has been superimposed as the gray background on Plate 1.

Onsite sandy clay to clayey sand was used as fill during original grading and this material was to be compacted to a minimum of 90 percent of the maximum dry density¹. Compaction test data from the grading report² is consistent with the recommendations of the original geotechnical report¹.

¹ LeRoy Crandall and Associates (1965), "Report of Foundation Investigation, Proposed Moorpark College, Portions of Sections 36 and 36, T3N, R19W, for the Ventura County Junior College District," LCA Job No. A-65001, dated May 24.

Subsurface Conditions at Athletic Field

Earth materials encountered in the borings from the geotechnical study for the adjacent parking structure advanced in the immediate vicinity of the proposed volleyball courts³ consist of sandy clay (CL) to clayey sand (SC). The logs of boring nos. 1 and 2 are included in the Appendix herein as Plates 2.1 through 2.4, and the approximate locations of those borings relative to the proposed volleyball courts are shown on Plate 1. The depth of fill approximated on the boring logs is consistent with fill depths shown on the original grading plan (1965) on Plate 1, and is noted thereon.

A direct shear test on a remolded sample of clayey sand fill taken from a backhoe trench ("T-2" on Plate 1) excavated adjacent to the easterly end of the courts for the parking structure site had an ultimate friction angle of 35 degrees. The results of that test are summarized on Plate 3.

ASCE 7-22 / 2022 CALIFORNIA BUILDING CODE SEISMIC PARAMETERS

Seismic design parameters for the west campus area were generated using site coordinates 34.2989° N, -118.8372° W, and in accordance with 2022 CBC and ASCE 7-22 Soil conditions are consistent with Site Class D, characterized by undrained shear strengths typically between about 1,000 and 2,000 pounds per square foot (psf) and average (uncorrected) blow counts between 15 and 50 (in accordance with Table 20.3-1 in Chapter 20 of ASCE 7-22 and Section 1613.2.2 of the 2022 CBC).

The following seismic parameters are recommended for design for Risk Category II for Site Class "D" soil profile:

Seismic Parameter ¹	Value (g)	CBC Source (or Other)
Mapped Spectral Response Acceleration		
S_s	2.25	Figure 1613.2.1 (1)
S₁	0.76	Figure 1613.2.1 (2)
S_{MS}	2.27	Equation 16-20
S_{M1}	1.71	Equation 16-21
Design Spectral Response Acceleration		
S_{DS}	1.51	Equation 16-22
S_{D1}	1.14	Equation 16-23
PGA (MCE_G)	0.87	(ASCE 7)

Because the mapped spectral response acceleration parameter at 1-second period, S₁, is greater than 0.75g, Seismic Design Category E is appropriate for Risk Category II structures.

² LeRoy Crandall and Associates (1966), "Control of Compacted Fill, Proposed Moorpark College, Portions of Sections 35 and 36, T3N, and R19W, Ventura County, California," LCA Job No. B-65216, dated September 21

³ Geotechniques (2011), "Geotechnical Study, Parking Structure, Moorpark College, Moorpark, California," Project No. 1003.026, February 25.

FOUNDATION RECOMMENDATIONS

Drilled cast-in-place concrete piers that embed the light base should be designed to derive all lateral support from compacted fill and/or native soil encountered below a design embedment starting 2 feet below the adjacent grade⁴. Light foundations should be set back a minimum horizontal distance of 5 feet from the top of the descending slope along the south/southeast side of the court pad area. Drilled shafts should be observed by the geotechnical representative during excavation at each foundation location to confirm design assumptions.

Passive and Frictional Resistance. An allowable passive resistance of 300 pounds per square foot per foot of depth (psf/ft), below the upper 2 feet, may be used when designing relatively short concrete drilled pier foundations, with a maximum value limited to 4,500 psf. A coefficient of friction of 0.4 may be combined with the passive resistance without reduction in the total resistance.

Allowable Bearing. An allowable bearing capacity of 2,500 psf is recommended for end-bearing on clayey sand fill and native materials. A one-third increase is allowed for transient loading conditions.

Drilled Shaft Construction Considerations. Drilled shafts for light foundations should be excavated to the minimum design embedment depth determined by others. The bottom of the drilled shaft should consist of clayey sand/sandy clay soil that is not disturbed by the drilling auger. This should be achieved by using a bucket auger and clean-out bucket for excavating and cleaning the final 18 inches of undisturbed materials from the shaft excavation bottom. Note that backspinning of flight auger is not an acceptable alternative to use of a bucket auger/clean-out bucket. The drilling operation should be observed by Geotechniques.

All loose slough and disturbed materials and any water accumulated on the shaft bottom should be removed prior to setting pole base and/or reinforcement and prior to concrete placement. Pole base/reinforcement should be centered securely in shaft prior to concrete placement.

Drilled shafts should be concreted the same day as excavation and **should not be left open overnight**. Drilled pier construction should be performed in accordance with the latest edition of ACI 336.1, "Standard Specifications for Construction of Drilled Piles."

ON-GRADE CONCRETE OR PAVEMENT

The upper 1 foot of soil subgrade in areas to receive new on-grade concrete or pavement should be compacted to a minimum of 95 percent of the maximum dry density determined by ASTM D1557. The subgrade should be scarified or removed, as necessary, and processed to pea-sized consistency or finer at between 0 and 2 percent above optimum moisture content prior to compaction. The aggregate base course beneath on-grade concrete should have a minimum as-compacted thickness of 4 inches. Aggregate base should be compacted to a minimum of 95 percent of the maximum dry density, as determined by ASTM D1557. Subgrade and base course in pavement areas should be firm and unyielding when proof-rolled with a full water truck.

⁴ The upper 2 feet of embedment (with respect to lowest adjacent finish grade) should be neglected for lateral resistance.

UTILITY TRENCHES

Grass and root mat along utility trench alignment should be stripped and wasted offsite prior to excavating trench. Trench excavations should be braced or sloped in accordance with the requirements of (Cal) OSHA.

Bedding sand should, at a minimum, have an as-compacted thickness of 4 inches below the pipe invert, and pipe zone sand should have an as-compacted thickness of 12 inches over the top of pipe. Bedding and pipe zone sand should have a minimum Sand Equivalent of 30.

Trench backfill consisting of onsite excavated clayey sand should be moisture conditioned (or aerated, as needed) between 0 and 3 percent over optimum moisture content prior to placing in trench. Backfill should be compacted to a minimum of 90 percent relative compaction as determined from ASTM D1557, and 95 percent in the upper 1 foot of subgrade in concrete and pavement areas.

Rock larger than 3 inches in maximum dimension should be excluded from backfill. Jetting of trench backfill materials should not be permitted.

CLOSURE

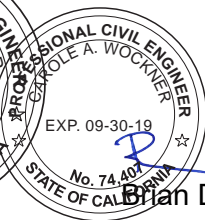
The recommendations in this letter are specific to the scope of the proposed volleyball court area presented herein. Additionally, data, evaluations, and recommendations by Geotechniques³ in the referenced original study not specifically presented herein should be considered applicable to the subject site and should be considered to constitute the baseline geotechnical study for and applicable to this project.

Ranchito Park Course
July 8, 2019 (Project No. 1029.002)

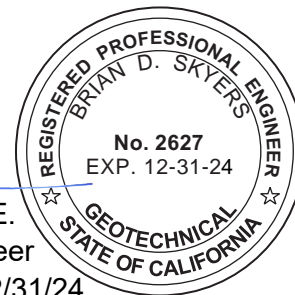
We appreciate the opportunity to be of service to Moorpark College and the Ventura County Community College District. Please call if you have any questions concerning this letter and construction phases of this project. Please call if you have any questions about this letter.

Sincerely,
Sincerely,
Geotechniques
Geotechniques

Carole Wockner
Carole Wockner, P.E.
Principal Engineer
Associate Engineer
R.C.E. No. 74,407, exp. 9/30/19
R.C. E. No. 74407, exp 09/30/23



Brian D. Skyers
Brian D. Skyers, G.E.
Geotechnical Engineer
R.G.E. 2627, exp 12/31/24



Encl: Appendix

Encl: Appendix

7 Boring Logs from Referenced Reports (2004: "A," "B," "C," and "G" and 1985: Nos. 1, 2, 3)
Plate 1 - Site Layout Plan
Direct Shear Lab Results from 2004 and 1985 (2 pages)
Plates 2.1- 2.4 - Logs of Borings B-1 and B-2 from Parking Structure Study³
Plate 3 - Direct Shear Test

Copies: Addressee (PDF and 4 copies of original via U.S. mail)

APPENDIX

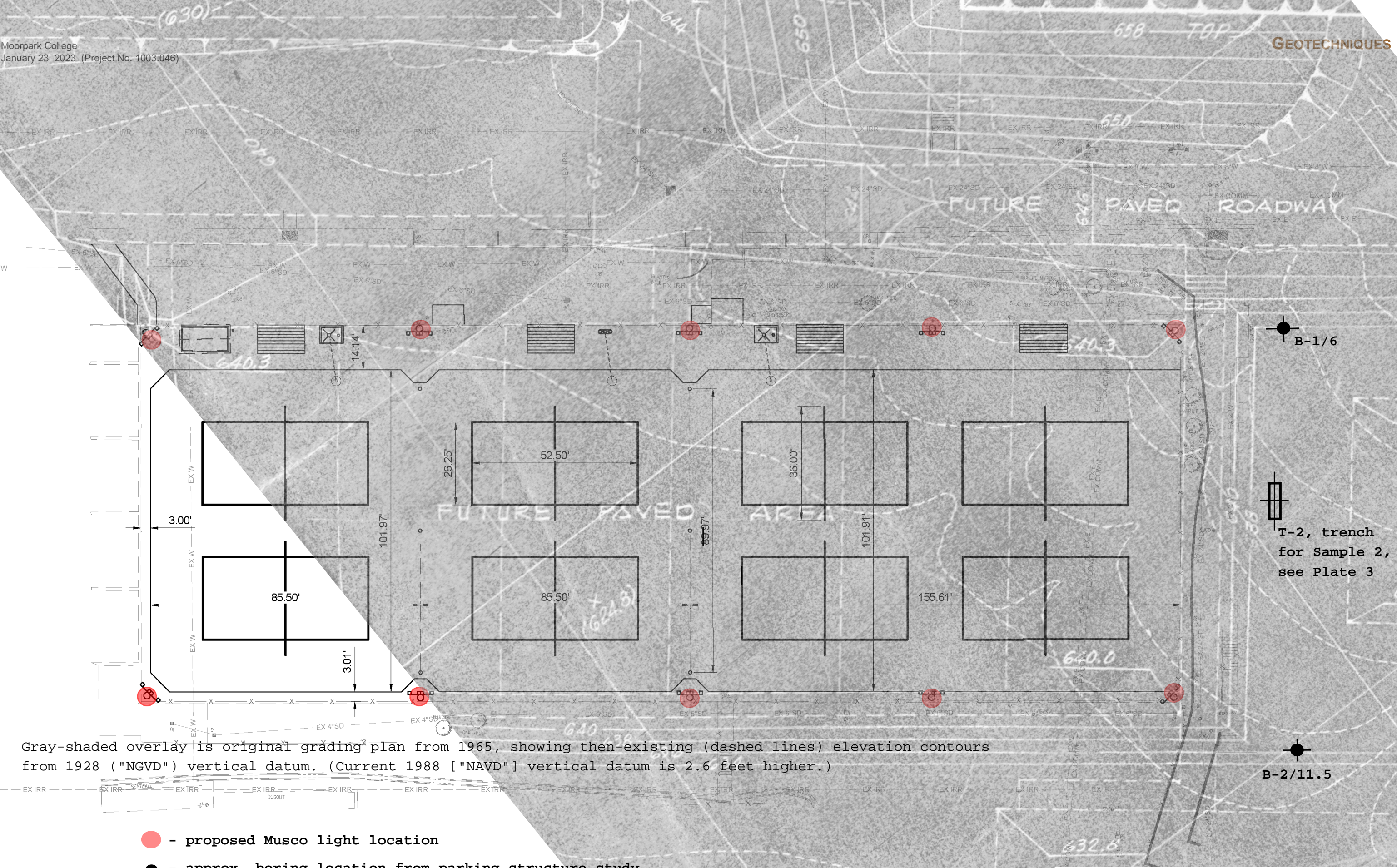


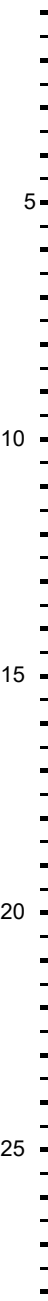
PLATE 1
SITE LAYOUT PLAN
VOLLEYBALL COURTS, MOORPARK COLLEGE

GEOTECHNIQUES LOG OF EXPLORATORY BORING

PROJECT NO.: 1003.026
PROJECT NAME: Parking Structure
LOCATION: South Campus, Moorpark College
ELEVATION: 642 feet (approx.)

DRILLER: Martini Drilling
DRILL METHOD: 8-inch Hollow Stem Auger
HAMMER: 140 pound auto-trip

LOGGED BY: CW
OPERATOR: Gene/Brandon
RIG TYPE: CME 75
DATE: 11/12/2010

Depth (ft)	SAMPLES				Graphical Log	USCS Symbol	BORING NO.: B-1	Laboratory Testing		
	Sample Type	Blows/ 6"	SPT N-value	Sample Number				Water Content (%)	Dry Density (pcf)	% Finer #200 Sieve/ Atterberg Limits
	MATERIAL DESCRIPTION AND COMMENTS									
					SC:	ARTIFICIAL FILL (Qaf): Very clayey SAND (SC): Medium red-brown, very dense, moist				
	5	10 15 25	40	1		- mottled black, brown, orange-brown in sampler nose, at 6'	9	111.6	El = 2	
	10	3 4 7	11	2	CL	OLDER ALLUVIUM (Qoa): Fine sandy lean CLAY (CL): Medium brown, stiff, moist	12	102		
	15	4 5 8	13	3		- medium red-brown, medium stiff, at 15'	13	112	20/ LL ~ 26 PI ~ 10	
	20	3 3 2	5	4		- cuttings color change to medium brown, at 21'				
25	6 10 19	29	5	SC	Clayey fine SAND (SC): Medium brown, dense, moist	9	113			
					SM	Very silty fine SAND (SM): Medium red-brown, very dense, with gravel, moist, occasional clay pods				

Legend:



-Ring



-Disturbed Ring



- SPT



- Bulk



- No Recovery










- Groundwater

GEOTECHNIQUES LOG OF EXPLORATORY BORING

PROJECT NO.: 1003.026
PROJECT NAME: Parking Structure
LOCATION: South Campus, Moorpark College
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DRILLER: Martini Drilling
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HAMMER: 140 pound auto-trip

LOGGED BY: CW
OPERATOR: Gene/Brandon
RIG TYPE: CME 75
DATE: 11/12/2010


Depth (ft)	SAMPLES				Graphical Log	USCS Symbol	BORING NO.: B-1 (continued)	Laboratory Testing		
	Sample Type	Blows/ 6"	N-value	Sample Number				Water Content (%)	Dry Density (pcf)	Others
							MATERIAL DESCRIPTION AND COMMENTS			
30		3 13 16	29	6			Very silty fine SAND (SM): Medium red-brown, very dense, with angular gravel, moist, occasional clay pods	24	102	
35		18 18 51	69	7			- light red-brown to pink, very dense, slightly cemented, CaCO ₃ and clay pods, at 35'			
40		9 15 27	42	8			- very dense, at 40'			
45		12 29 38	67	9			- very dense, at 45'			
50		25 51		10			- pink to tan, very dense, cemented, with fine to medium gravel-sized shards, at 45'			
TOTAL DEPTH 50.5 FEET GROUNDWATER NOT ENCOUNTERED										
BORING BACKFILLED WITH CUTTINGS UPON COMPLETION.										
55										


Legend:

 -Ring

 - Disturbed Ring



 -Bulk

 -No Recovery



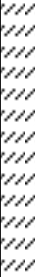
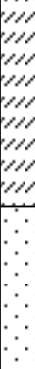
 -Groundwater

GEOTECHNIQUES LOG OF EXPLORATORY BORING

PROJECT NO.: 1003.026
PROJECT NAME: Parking Structure
LOCATION: South Campus, Moorpark College
ELEVATION: 639 feet (approx.)

DRILLER: Martini Drilling
DRILL METHOD: 8-inch Hollow Stem Auger
HAMMER: 140 pound auto-trip

LOGGED BY: CW
OPERATOR: Gene/Brandon
RIG TYPE: CME 75
DATE: 11/12/2010

Depth (ft)	SAMPLES				Graphical Log	USCS Symbol	BORING NO.: B-2	Laboratory Testing		
	Sample Type	Blows/ 6"	SPT N-value	Sample Number				Water Content (%)	Dry Density (pcf)	% Passing #200 Sieve
							MATERIAL DESCRIPTION AND COMMENTS			
						CL	ARTIFICIAL FILL (Qaf): Fine sandy lean CLAY (CL): Mottled medium - brown, light tan, and black , very dense, very moist	18	115	
	5	8 16 36	52	11						
	10	7 6 13	19	12			- mottled dark brown and black, at 10'	17	114	
	15	4 7 10	17	13		SC	OLDER ALLUVIUM (Qoa): Clayey fine SAND (SC): Medium to dark red brown, medium dense, moist	14	--	16
	20	6 11 12	23	14			SC/ SM	Fine SAND with silt and clay (SC/SM): Medium orange-brown, dense, moist	12	113
25	7 30 19	49	15		SP	Fine to medium SAND with gravel and cobbles (SP): Medium light brown, very dense, moist - with clay and fine gravel in nose, at 26' - drilling chatter, between ~26' and ~29'				

Legend:



-Ring



-Disturbed Ring



- SPT



- Bulk



- No Recovery



- Groundwater

GEOTECHNIQUES LOG OF EXPLORATORY BORING

PROJECT NO.: 1003.026
PROJECT NAME: Parking Structure
LOCATION: South Campus, Moorpark College
ELEVATION: 639 feet (approx.)

DRILLER: Martini Drilling
DRILL METHOD: 8-inch Hollow Stem Auger
HAMMER: 140 pound auto-trip

LOGGED BY: CW
OPERATOR: Gene/Brandon
RIG TYPE: CME 75
DATE: 11/12/2010

Depth (ft)	SAMPLES				Graphical Log	USCS Symbol	BORING NO.: B-2 (continued)	Laboratory Testing		
	Sample Type	Blows/ 6"	N-value	Sample Number				Water Content (%)	Dry Density (pcf)	% Finer #200 Sieve/ Atterberg Limits
30	[Symbol]	9 4 2	6	16	[Symbol]	SP	Fine to medium SAND with gravel and cobbles (SP): Medium light brown, very dense, moist			
35	[Symbol]	14 17 25	42	17	[Symbol]	SM	Silty fine SAND (SM): Light yellow brown, very dense, trace fine gravel, moist			
40	[Symbol]	10 30 37	67	18	[Symbol]		-with fine to medium rounded gravel, at 40'			
45	[Symbol]	>50		19	[Symbol]		Fine SAND with clay (SC): Red-brown, very dense, moist			
							- Refusal, at 45'			
50							TOTAL DEPTH 45 FEET GROUNDWATER NOT ENCOUNTERED			
							BORING BACKFILLED WITH CUTTINGS UPON COMPLETION			
55										

Legend:



-Ring



' - Disturbed Ring



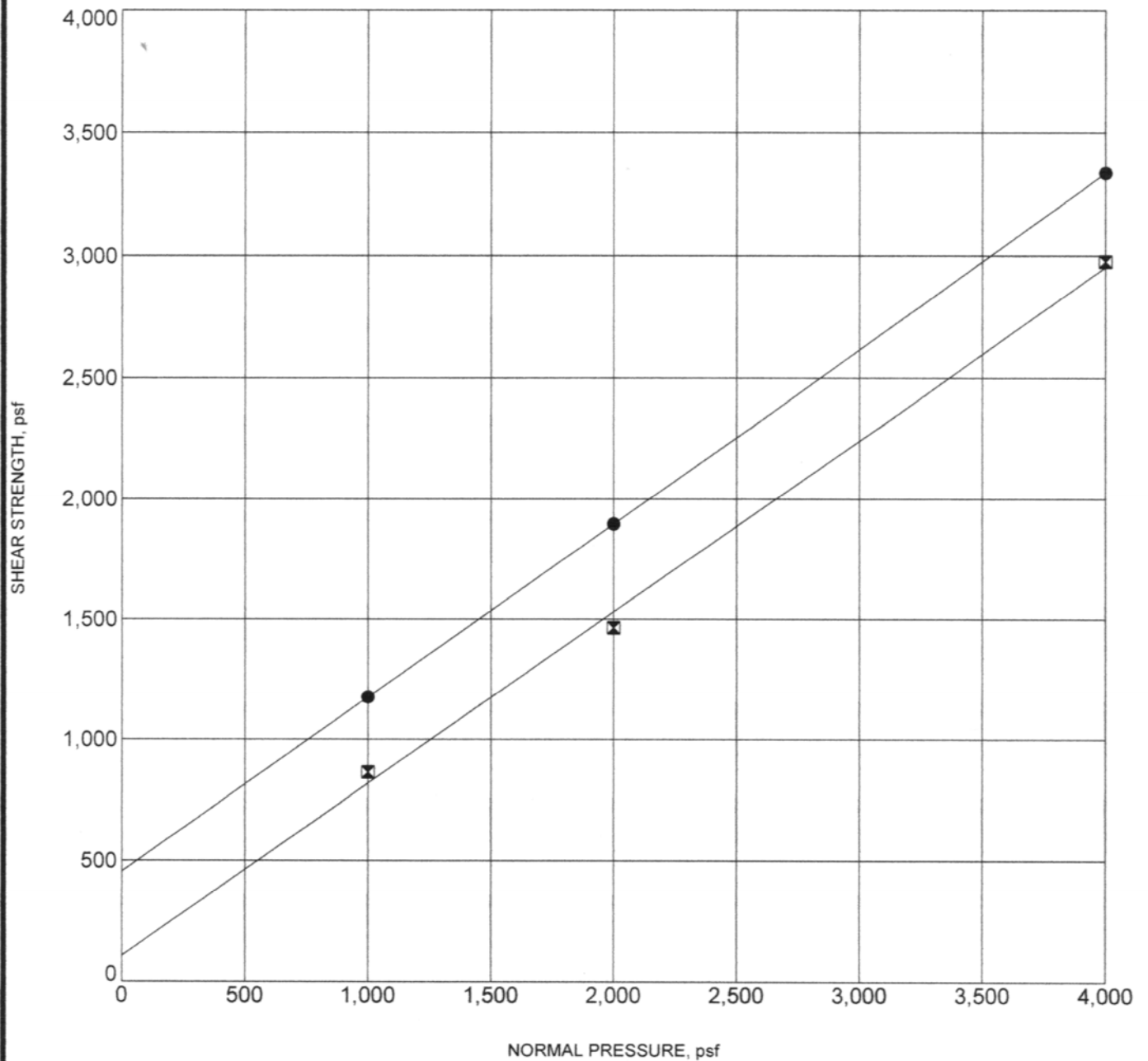
'-Bulk



-No Recovery



-Groundwater



Sample No.: 2
Sample Location: east trench at Parking Structure
Sample Description: Sandy CLAY with silt (CL)
Strain Rate (in./min): 0.005
Dry Density (pcf): 116.8

Shear Strength Parameters
 Peak —●— Ultimate —✕—
Cohesion, C (psf): 455 110
Friction Angle, ϕ (deg): 36 35
Initial Moisture (%): 13.3
Final Moisture (%): 13.9

GEOTECHNIQUES

DIRECT SHEAR TEST

Moorpark College Parking Structure
Moorpark, California

Project No. 1003.026

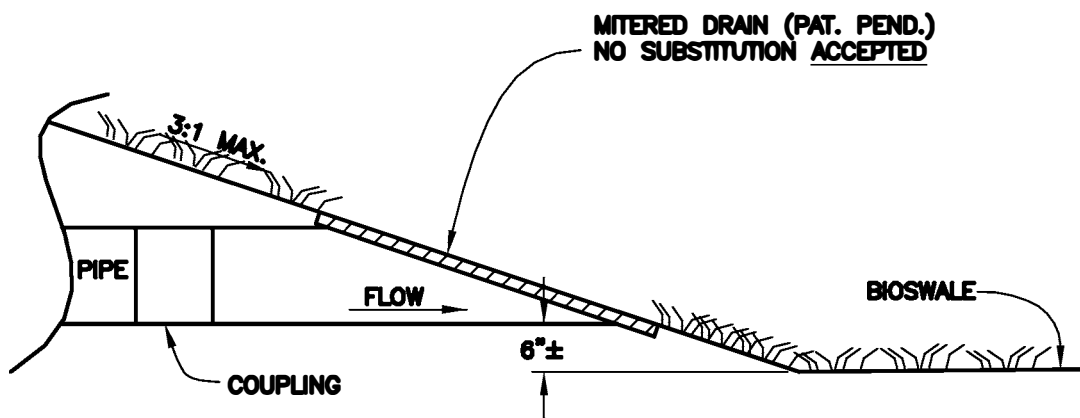
REPORT DATE
November 2012

PLATE 3



(317) 346-4110

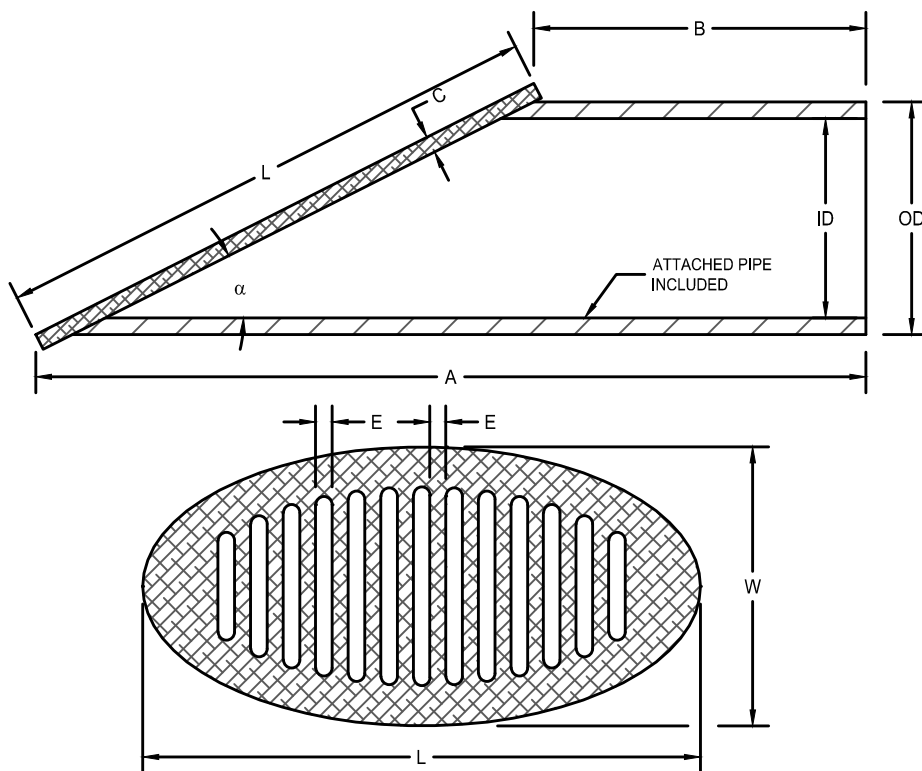
DRAINAGE www.drainagesolutionsinc.com
SOLUTIONS, INC



SECTION

MITERED DRAIN OUTLET DETAIL

NTS



MITERED DRAIN™
INCORPORATED



**DRAINAGE
SOLUTIONS, INC**

(317) 346-4110
www.drainagesolutionsinc.com

Mitered Drain™ (pat. pending)

DIMENSION TABLE *

PIPE SIZE	SLOPE	MODEL NO.	GRATE MATERIAL	ATTACHED MITERED PIPE MATERIAL	A(in.)	B(in.)	C(in.)	ID(in.)	OD(in.)	E(in.)	L(in.)	W (in.)	α	APPROX. WEIGHT (lbs.)	AREA OF GRATE OPENING (sq. in.)
3"	3:1	3MD3P-G	GRAY HDPE	PVC Sch. 80	15	4	0.375	2.85	3.5	0.375	11.6	4.0	18.5°	2	10.4
3"	3:1	3MD3P-B	BLACK HDPE	PVC Sch. 80	15	4	0.375	2.85	3.5	0.375	11.6	4.0	18.5°	2	10.4
3"	3:1	3CMD3-GN	GREEN HDPE	PVC Sch. 40	14.7	3	NA	3.03	3.5	0.375	12.4	4.0	18.5°	1.4	9.85
4"	3:1	4MD3P-G	GRAY HDPE	PVC Sch. 80	18.5	4.5	0.375	3.77	4.5	0.375	14.7	5.0	18.5°	3.5	17.9
4"	3:1	4MD3P-B	BLACK HDPE	PVC Sch. 80	18.5	4.5	0.375	3.77	4.5	0.375	14.7	5.0	18.5°	3.5	17.9
4"	3:1	4CMD3-GN	GREEN HDPE	PVC Sch. 40	18.5	3.5	NA	3.99	4.5	0.375	15.6	5.0	18.5°	2.3	15.76
6"	3:1	6MD3P	GRAY HDPE	C900-CL 200	30	8	0.75	5.85	6.9	0.50	22.4	7.5	18.5°	13	41.9
8"	3:1	8MD3P	GRAY HDPE	C900-CL 150	43	14	0.75	7.97	9.1	0.75	29.3	9.7	18.5°	26	76.7
12"	3:1	12MD3P	GRAY HDPE	C900-CL 150	58	17	0.75	11.63	13.2	1.0	42.5	14	18.5°	66	165.1

* ALL DIMENSIONS ARE IN INCHES AND ALL WEIGHTS ARE IN POUNDS, AND MAY VARY.

BASIC SPECIFICATIONS

Brass grates are made of copper alloy No. 836.

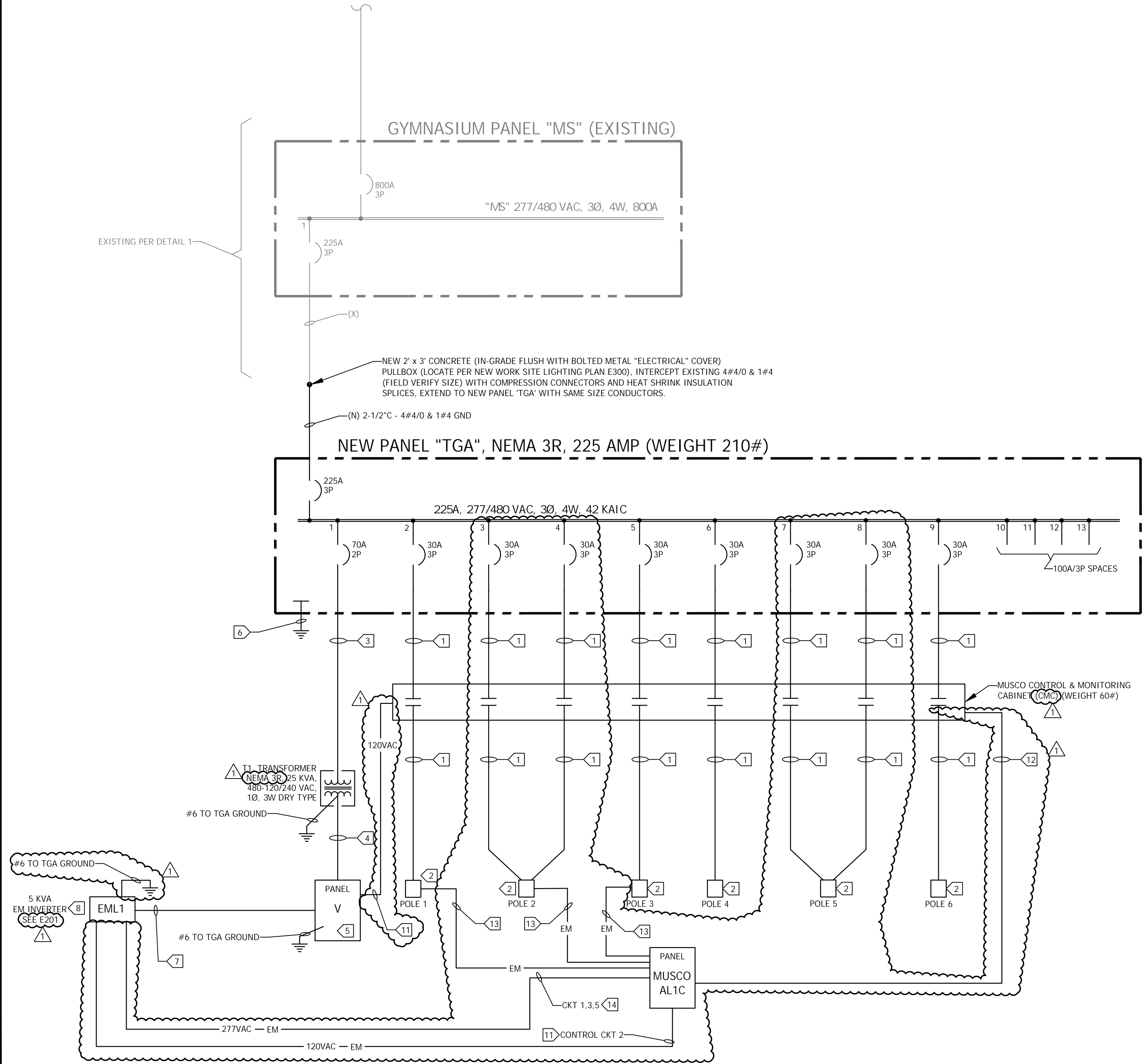
HDPE grates are made with UV inhibitor.

Set screws are type 18-8 stainless steel.

Not recommended for traffic loads. Made in the U.S.A.

TIME: 4:07 pm
DATE: 9 June 2023
PATHNAME: G:\22537\EL\Sheets
DRAWING FILENAME: 22-537E200
DRAFTER: CM01

ELECTRICAL ENGINEER HAS VERIFIED
EXISTING POWER SOURCE IS SUFFICIENT
FOR NEW PROJECT ELECTRICAL LOADS



REVISED ELECTRICAL SINGLE LINE DIAGRAM
SCALE: NONE SAND VOLLEYBALL COURTS

2
- E200

KEY NOTES:

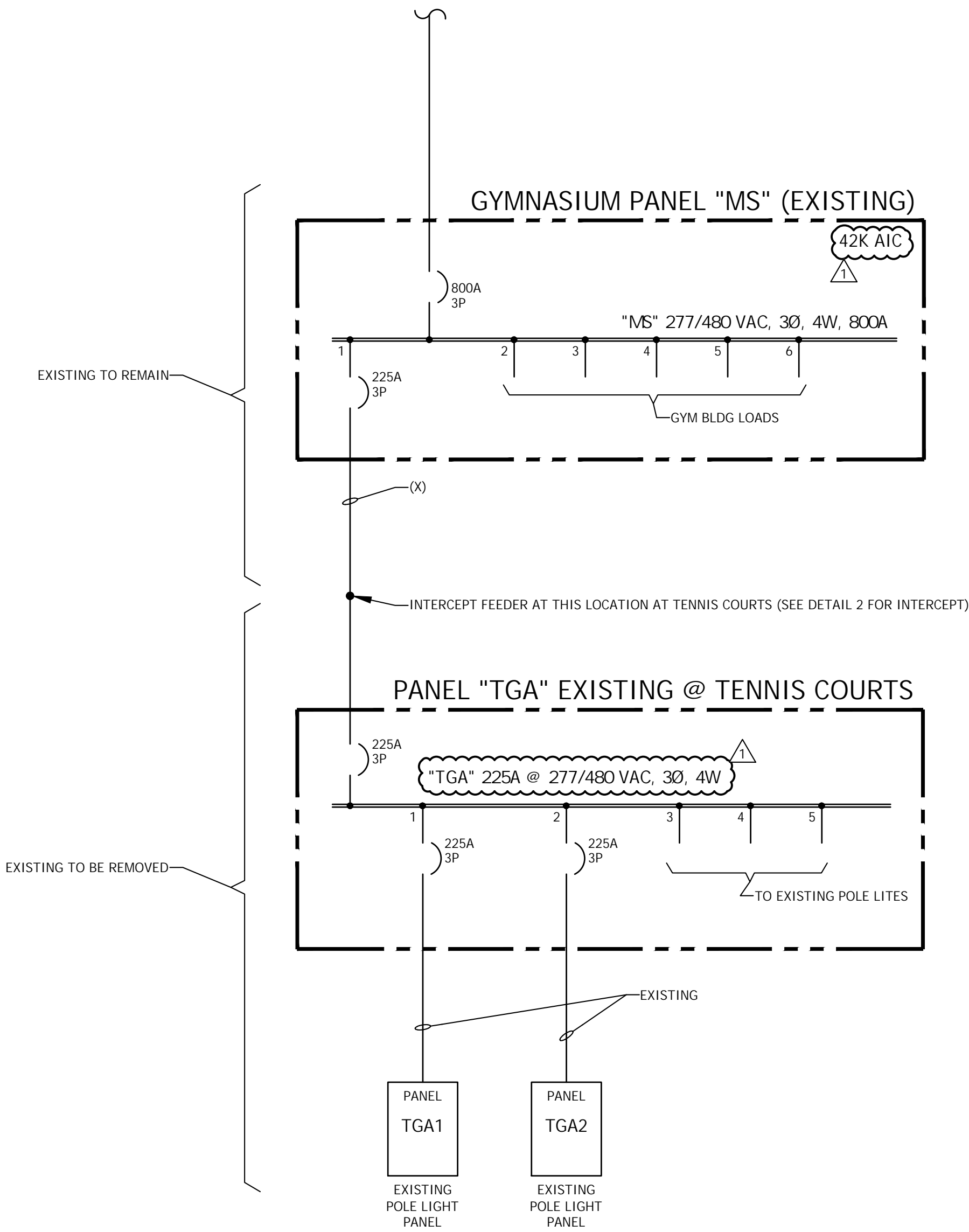
- 1" C 4#6 & 1#10 GND.
- MUSCO ELECTRICAL COMPONENTS ENCLOSURE MOUNTED ON POLE AT APPROXIMATELY 10'-0" AFF. FEEDER SHALL BE ROUTED INTERNAL TO POLE VIA UNDERGROUND CONDUIT ENTRY.
- 1" C - 2#4 & 1#6 GND.
- 1-1/2" C - 3#2/0 & 1#6 GND.
- SEE PANEL SCHEDULE PER E201.
- #2 UFER & 1#2 WITH 3/4" x 10'-0" GROUND ROD.
- 1" C - 2#4 & 1#10 GND.
- SEE MANUFACTURER SPEC SHEET E201 FOR TECHNICAL REQUIREMENTS/WEIGHT.
- 1" C - 2#10 & 1#10 GROUND TO EML1 VIA CONTACTORS IN MUSCO CONTROL & MONITORING CABINET.
- 1" C-2#6 & 1#10 GROUND.
- 1" C-2#12 & 1#12 GROUND.
- MULTIPLE CONDUITS:
 - 'S' 120VAC SIGNAL FROM EM TO E1 (NO CONTACTS) - 1" C-2#12 & 1#12 GROUND.
 - 'E1' 'NORMAL' POWER INPUT RELAY (120VAC NORMAL CONTROL POWER TO E1 COIL) - 1" C-2#12 & 1#12 GROUND.
 - 'E2' 'ZONE TRIGGER RELAY' 1" C-6#12 & 1#12 GROUND.
 - 'E6' 'CONTROL ON OFF RELAY' 1" C-6#12 & 1#12 GROUND.
- 1" C-2#10 & 1#10 GROUND.
- 1" C-6#10 & 1#10 GROUND.

MS LOAD SUMMARY CALCULATIONS

PANEL/LOAD	LOAD
MS	= 220 KVA
MS x 25%	= 55 KVA
VOLLEYBALL	= 40 KVA
TOTAL PROJECT LOAD (277/480 VAC)	= 315 KVA
IN AMPS AT 277/480 VAC, 3Ø, 4W	= 380 AMPS

SHEET NOTES:

- VERIFY LOCATION OF ALL BUILDINGS AND APPENDITURES ON ARCHITECTURAL AND CIVIL PLANS.
- CONTRACTOR SHALL VERIFY LOCATION & REQUIREMENTS OF ALL ELECTRICAL DEVICES PRIOR TO BID. ROUGH-IN & INSTALLATION.
- FIELD VERIFY LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO TRENCHING. SCHEDULE AND COORDINATE ALL SITE WORK WITH OWNER PRIOR TO ANY TRENCHING.
- SEE MUSCO PLANS FOR EQUIPMENT CONNECTIONS, EQUIPMENT PROVIDED, INSTALLATION, & PROGRAMMING REQUIREMENTS



EXISTING ELECTRICAL SINGLE LINE DIAGRAM
SCALE: NONE TENNIS COURTS

1
- E200



7349 N. VIA PASEO DEL SUR
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DSA
SUBMITTAL



REV.

ADDENDUM 1 6/9/23

MOORPARK COLLEGE
BEACH VOLLEYBALL
COURTS

MOORPARK, CA

DESIGNED: KL
DATE: APRIL 4, 2023
DRAWN: LK / DS
PROJ. 22-537
SCALE: AS NOTED

SHEET TITLE
ELECTRICAL SINGLE
LINE AND PANEL
SCHEDULES

DWG. NO.

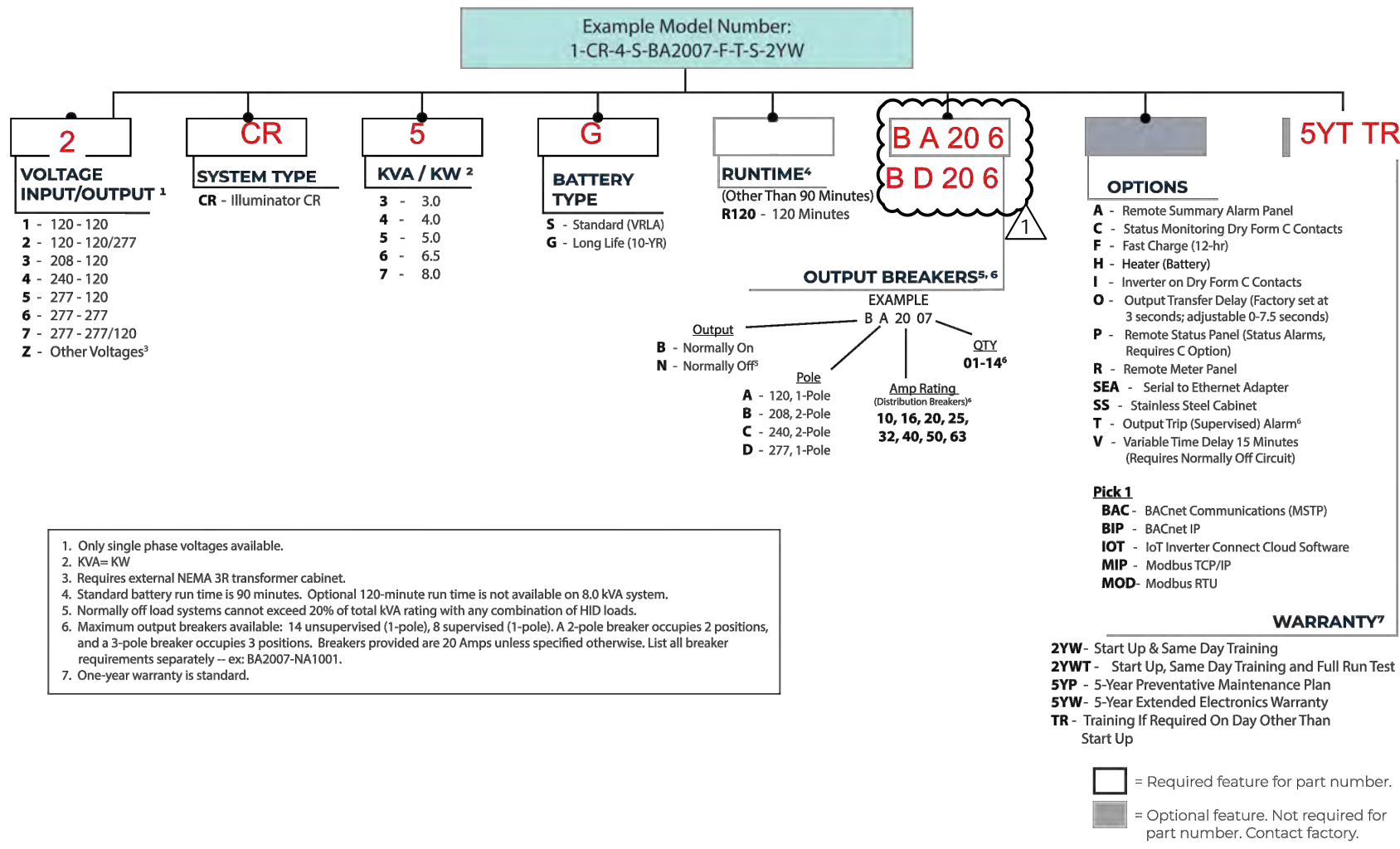
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DATE: 9 June 2023
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DRAWING FILENAME: 22-537E201
DRAFTER: CM01

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REV. 001
Drawing: 22-537E201.dwg
Author: CM01
Date: 6/9/2023
Project: 22-537

ORDERING GUIDE



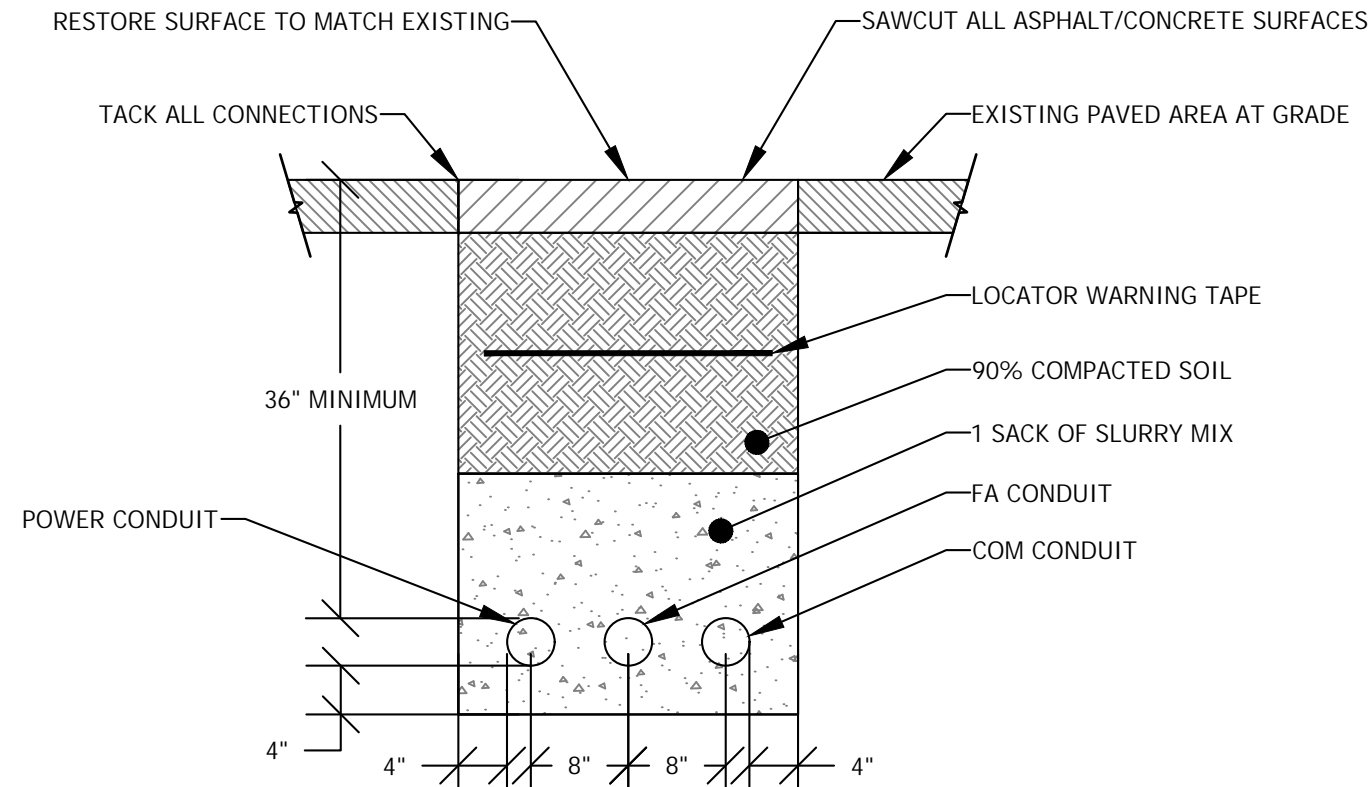
DIMENSIONS

Model Reference	Electronics Module											Batteries				
	Power Rating (kW / KVA)											Voltage (VDC)				
	# of Phases											Current (Amperes)				
	Efficiency @ Full Load (Typical)											Run Time (mins)				
	Audible Noise (dBA @ 1m)											Number of Batteries				
	Heat Loss (BTU)											Weight				
	Cabinet Dimensions											Weight				
	Width	Height	Depth	Weight		Weight										
	in/cm	in/cm	in/cm	lbs/kg		lbs/kg										
CR-3	3.0	1	98	45	255	54/137	78/193	30/76	805/365	740/335	10	120	37	90		
CR-4	4.0	1	98	45	340	54/137	78/193	30/76	805/365	888/403	12	144	40	90		
CR-5	5.0	1	98	45	408	54/137	78/193	30/76	805/365	1184/538	15	180	40	90		
CR-6	6.5	1	98	45	544	54/137	78/193	30/76	805/365	1480/672	20	240	39	90		
CR-7	8.0	1	98	45	680	54/137	78/193	30/76	805/365	1776/806	24	144	82	90		

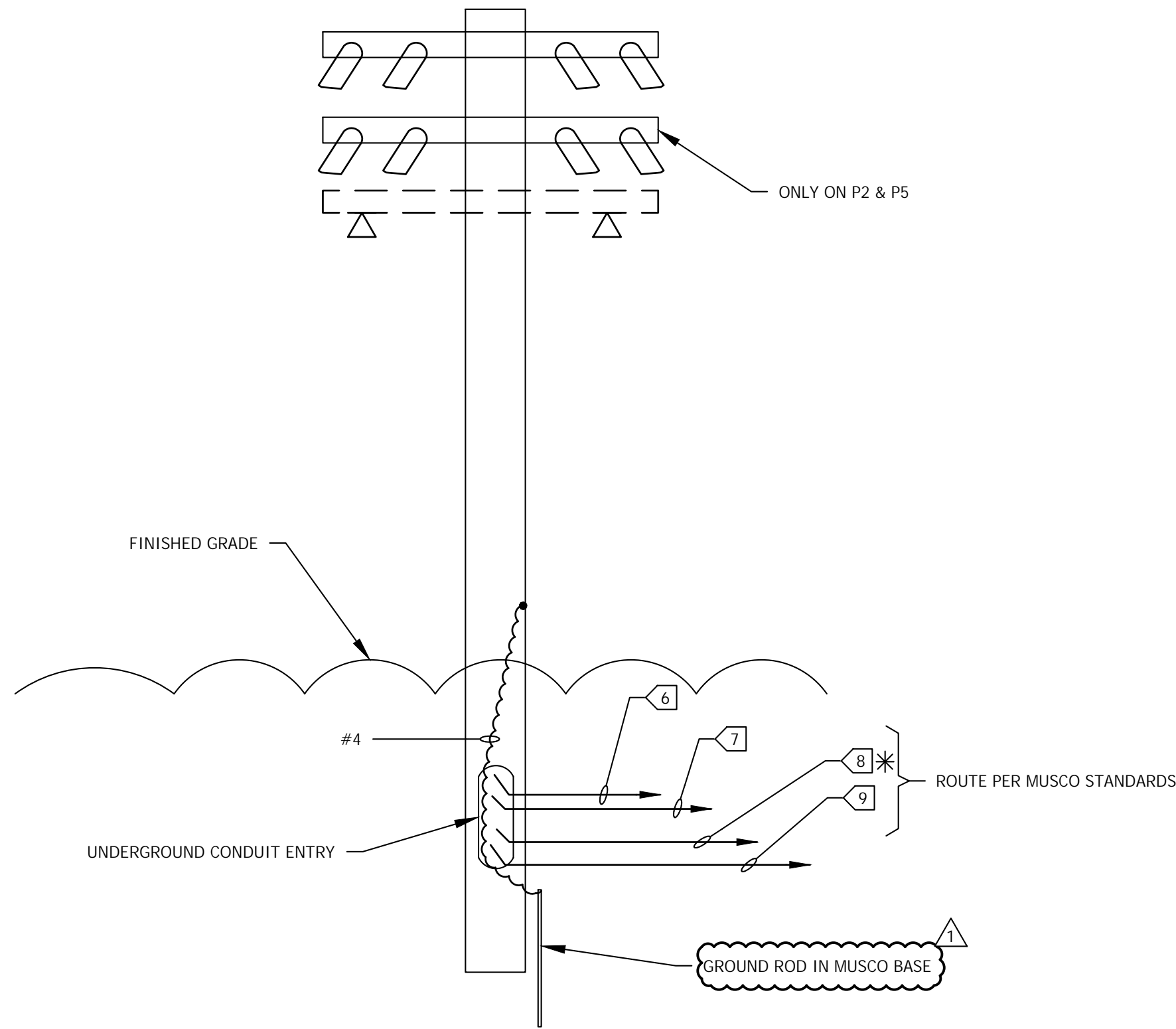
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DATE: 9 June 2023
PATHNAME: G:\22537\EL\Sheets
DRAWING FILENAME: 22-537E300
DRAFTER: CM01
other than adding "as-built" information, are allowed by anyone other than authorized Lloyd Consulting Group, LLC employees.

DETAIL NOTES:

- ALL CONDUITS TO BE PROVIDED WITH METERED PULLWIRES THEIR ENTIRE LENGTH.
- ALL CONDUITS BENDS SHALL BE FACTORY BENDS WITH MINIMUM 12 TIMES DIAMETER. BEND RADIUS.
- ALL CONCRETE TO BE 5 SACK MIX OR 2000psi
- ALL FEEDERS TO BE PER ELECTRICAL SINGLE LINE SHEET E200.



DUCTBANK SECTION 3
SCALE: NONE



P1, P2, P3 LIGHT POLES
(* P2 & P5 HAVE (2) SET OF COURT FIXTURES WHICH EQUALES (2) SETS OF 8)
SCALE: NONE IDENTICAL TO P4, P5, P6 EXCEPT FOR 7 NOT PRESENT 7 ONLY PRESENT ON P1, P2, P3

SHEET NOTES:

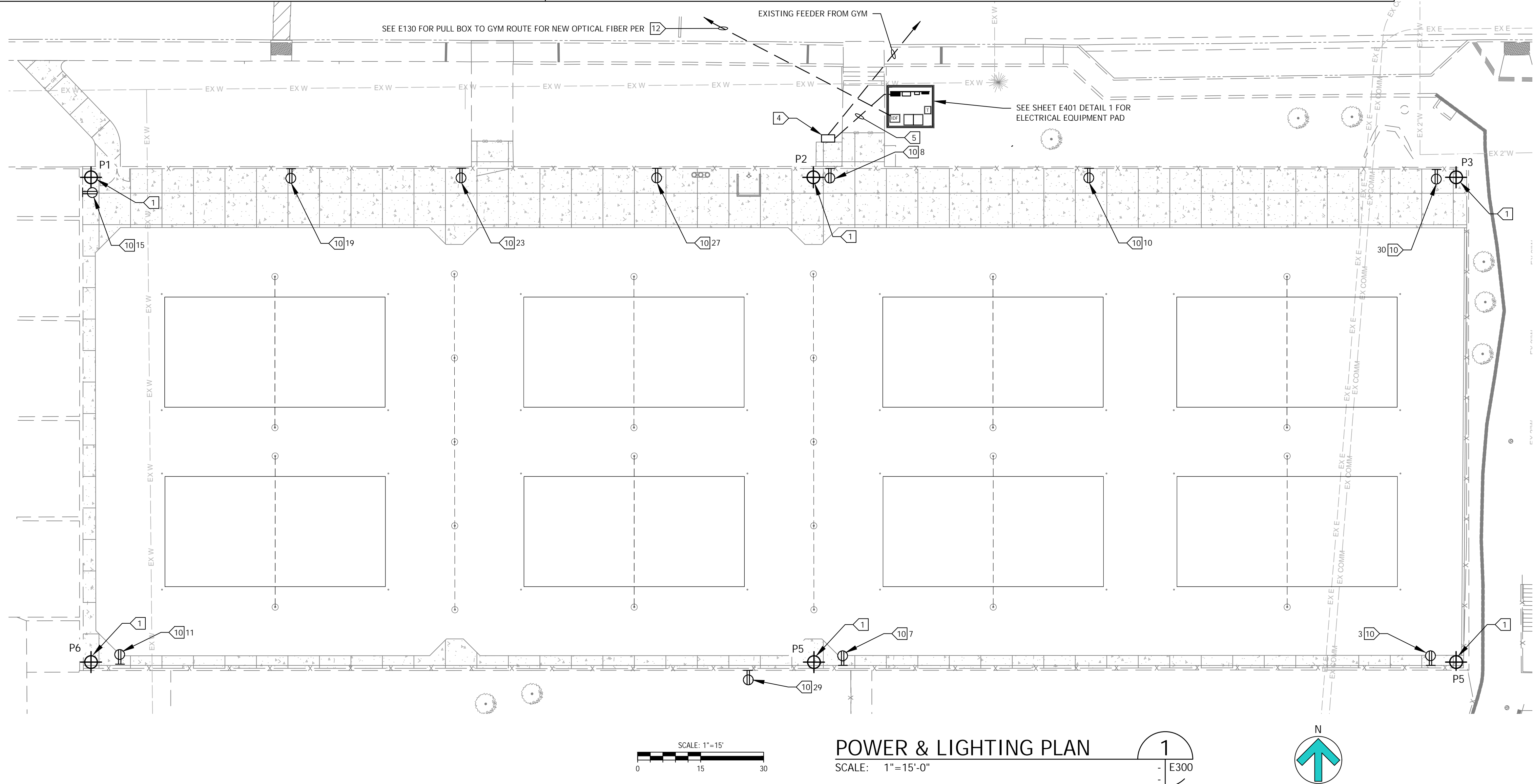
- CONTRACTOR SHALL VERIFY LOCATION, TRIM, AND REQUIREMENTS OF ALL LIGHT FIXTURES AND CONTROL PRIOR TO BID PROPOSAL, ROUGH-IN, AND FINISH INSTALLATION.
- CONTRACTOR SHALL, IN ROUTING ALL CIRCUITS, INCREASE CONDUCTOR & CONDUIT SIZE TO ALLOW FOR VOLTAGE DROP SHOULD THE CONTRACTOR EXCEED ROUTING INDICATED ON DRAWING. ENGINEER OF RECORD MUST BE NOTIFIED PRIOR TO ANY DEVIATIONS FROM APPROVED PLAN CHECK (PERMIT SET) DRAWINGS.
- CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES AS REQUIRED TO INSTALL CONDUCTORS PER CONDUCTOR MANUFACTURERS RECOMMENDATIONS, PER THE NATIONAL ELECTRICAL CODE AND PER LOCAL AUTHORITIES HAVING JURISDICTION.
- 3/4" CONDUIT MINIMUM UNLESS OTHERWISE NOTED, 1" MINIMUM UNDERGROUND.

KEY NOTES:

- MUSCO POLE (PROVIDED BY OTHERS) LOCATION: CONTRACTOR INSTALLED & CONNECTED PER MUSCO STANDARDS, SEE DETAIL 2 FOR CONNECTIONS
- BLEACHERS.
- NEW ELECTRICAL EQUIPMENT PAD BY CONTRACTOR. CONTRACTOR TO CONNECT ALL EQUIPMENT. CONTRACTOR TO PROVIDE AND CONNECT ALL EQUIPMENT, EXCEPT MUSCO WILL PROVIDE AL1C AND CONTROL AND MONITORING CABINET BUT CONTRACTOR TO INSTALL AND TERMINATE THESE ITEMS PER MUSCO STANDARDS.
- INTERCEPT PULL BOX PER E200 DETAIL 2.
- NEW FEEDER PER E200.
- 1" C-2 CAT6 WET LOCATION FOR FROM CAMERA TO IDF.
- 1" C-2 #10 & 1 #10 GROUND TO EML1 VIA AL1C CONTROLS FOR EM FIXTURE, ONE CIRCUIT PER EACH POLE PER E201 PANEL SCHEDULE
- POWER TO POLE VIA E200 1" C-4 #6 & 1 #10 GROUND.
- 1" C.O. SPARE TO ELECTRICAL EQUIPMENT PAD.
- WP GFCI HOME RUN TO PANEL "V", 1" C-2 #10 & 1 #10 GROUND (CIRCUIT AS NOTED).
- 1" C.O. SPARE TO PANEL "V" FROM 12"x18" LANDSCAPE BOX. PROVIDE PULL STRING.
- 1" C-6 STRAND MULTI MODE WET LOCATION OPTICAL FIBER TO GYM MDF. TERMINATE PER COLLEGE STANDARDS AT GYM MDF & VOLLEYBALL IDF. VOLLEYBALL IDF SHALL PROVIDED WITH 24 PORT SWITCH, FAN, POWER DISTRIBUTION, GROUND BUS.

P1, P2, & P3 HAVE EM LIGHTING

SEE E600 FOR DUCT BANK SECTION FOR ALL UNDERGROUND CONDUITS SYSTEMS



POWER & LIGHTING PLAN
SCALE: 1"=15'-0"



7349 N. VIA PASEO DEL SUR
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PH 602.635.4226

LLOYD & ASSOCIATES INC.
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REV.	ADDENDUM 1	6/9/23

MOORPARK COLLEGE
BEACH VOLLEYBALL
COURTS

DESIGNED:	KL
DATE:	APRIL 4, 2023
DRAWN:	LK / DS
PROJ.	22-537
SCALE:	AS NOTED

SHEET TITLE
POWER & LIGHTING
PLAN

DWG. NO.

E300

TIME: 4:08 pm
DATE: 9 June 2023
PATHNAME: G:\22537\EL\Sheets
DRAWING FILENAME: 22-537E301
DRAFTER: CM01
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REF: none
Drawing: 22-537E301.dwg, Date: 12-
Author: CM01
Checked: CM01
Approved: CM01
Date: 06/09/2023
File: 22-537E301.dwg

Control System Summary

Moorpark College Beach Volleyball / 224335 - 224335C
Moorpark College Volleyball - Page 3 of 4

SWITCHING SCHEDULE

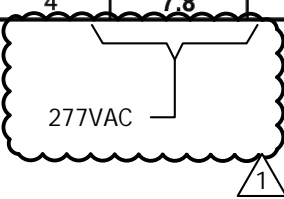
Field/Zone Description	Zones
Volleyball 1-4	1
Volleyball 5-8	2
Egress	3

CONTROL POWER CONSUMPTION	
120V Single Phase	
VA loading of Musco Supplied Equipment	INRUSH: 1960.0 SEALED: 208.0

CIRCUIT SUMMARY BY ZONE

POLE	CIRCUIT DESCRIPTION	# OF FIXTURES	# OF DRIVERS	*FULL LOAD AMPS	CONTACTOR SIZE (AMPS)	CONTACTOR ID	ZONE
P1	Volleyball 1-4	4	4	7.2	30	C1	1
P2	Volleyball 1-4	4	4	7.8	30	C2	1
P5	Volleyball 1-4	4	4	7.2	30	C3	1
P6	Volleyball 1-4	4	4	7.2	30	C4	1
P2	Volleyball 5-8	4	4	7.2	30	C5	2
P3	Volleyball 5-8	4	4	7.2	30	C6	2
P4	Volleyball 5-8	4	4	7.2	30	C7	2
P5	Volleyball 5-8	4	4	7.8	30	C8	2

*Full Load Amps based on amps per driver.



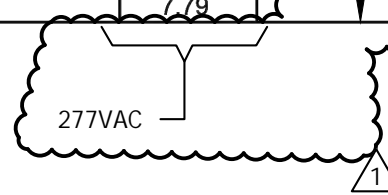
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Control System Summary

Moorpark College Beach Volleyball / 224335 - 224335C
Moorpark College Volleyball - Page 4 of 4

PANEL SUMMARY

CABINET #	CONTROL MODULE LOCATION	CONTACTOR ID	CIRCUIT DESCRIPTION	FULL LOAD AMPS	DISTRIBUTION PANEL ID	CIRCUIT BREAKER POSITION
1	1	C1	Pole P1	7.18	TGA	2
1	1	C2	Pole P2	7.79		3
1	1	C3	Pole P5	7.18		7
1	1	C4	Pole P6	7.18		9
1	1	C5	Pole P2	7.18		4
1	1	C6	Pole P3	7.18		5
1	1	C7	Pole P4	7.18		6
1	1	C8	Pole P5	7.79		8



ZONE SCHEDULE

ZONE	SELECTOR SWITCH	ZONE DESCRIPTION	CIRCUIT DESCRIPTION	
			POLE ID	CONTACTOR ID
Zone 1	1	Volleyball 1-4	P1	C1
			P2	C2
			P5	C3
			P6	C4
Zone 2	2	Volleyball 5-8	P2	C5
			P3	C6
			P4	C7
			P5	C8
Zone 3	3	Egress Grid (EM)	P1	
			P2	
			P3	

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Control System Summary

Project Information

Project #: 224335
Project Name: Moorpark College Beach Volleyball
Date: 01/27/23
Project Engineer: Chris Hensley
Sales Representative: Nicholas Cobb
Control System Type: Control-Link™ Control and Monitoring System
Communication Type: PowerLine-ST
Scan: 224335C
Document ID: 224335P1V1-0127153720
Distribution Panel Location or ID: Moorpark College Volleyball
Total # of Distribution Panel Locations for Project: 1
Design Voltage/Hertz/Phase: 480/60/3
Control Voltage: 120

Equipment Listing

DESCRIPTION	APPROXIMATE SIZE
1. Control and Monitoring Cabinet	24 X 72
Total Contactors	8
Total Off/On/Auto Switches:	3

Confirm all Details - voltage, # of distribution panels, etc.

Project Specific Notes:

Moorpark College Beach Volleyball - 480V/3P, LED C&M, Powerline Comm, Single contactor per pole

Egress fixtures are controlled through Musco provided ALIC unit. Each fixture has a full load amp value of 1.2A.

Materials Checklist

Contractor/Customer Supplied:

- ☐ A dedicated control circuit must be supplied per distribution panel location
 - If the control voltage is NOT available, a control transformer is required
- ☐ Electrical distribution panel to provide overcurrent protection for circuits
 - HID rated or D-curve circuit breaker sized per full load amps on Circuit Summary by Zone Chart
- ☐ Wiring
 - See chart on page 2 for wiring requirements
 - Equipment grounding conductor and splices must be insulated (per circuit)
 - Lightning ground protection (per pole), if not Musco supplied
- ☐ Electrical conduit wireway system
 - Entrance hubs rated NEMA 4, must be die-cast zinc, PVC, or copper-free die-cast aluminum
- ☐ Mounting hardware for cabinets
- ☐ Breaker lock-on device to prevent unauthorized power interruption to control power and powerline connection (if present)
- ☐ Anti-corrosion compound to apply to ends of wire, if necessary

Call Control-Link Central™ operations center at 877/347-3319 to schedule activation of the control system upon completion of the installation.

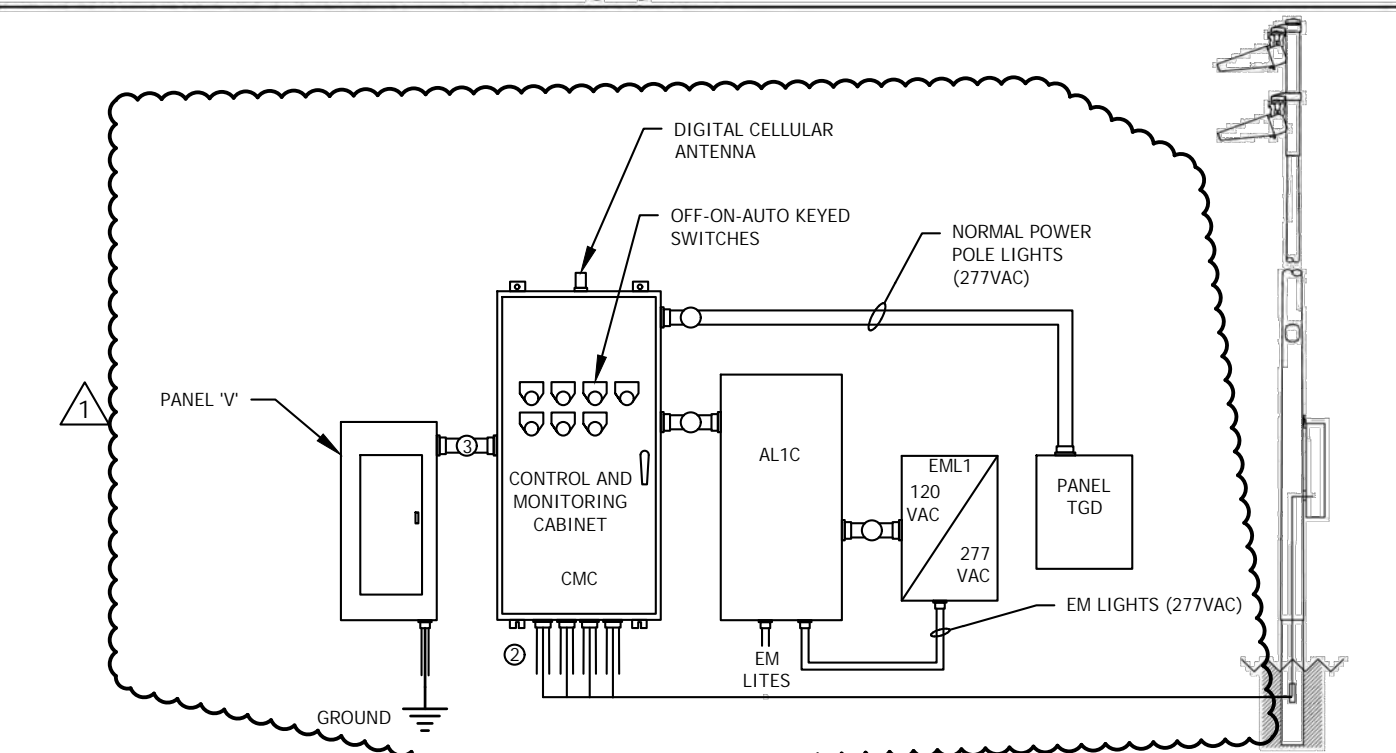
Note: Activation may take up to 1 1/2 hours.

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Control System Summary

Moorpark College Beach Volleyball / 224335 - 224335C
Moorpark College Volleyball - Page 2 of 4

Control-Link. Control and Monitoring System



Conduit ID	Description	# of Wires	Wire (AWG)	Conduit (in)	Max. Wire Length (ft)	MUSCO Supplied	Notes
1	Line power to contactors, and equipment grounding conductor	*A	*B	*C	N/A	No	A-E
2	Load power to lighting circuits, and equipment grounding conductor	*A	*B	*C	N/A	No	A-E
3	Control power (dedicated, 20A)	3	12	*C	N/A	No	C-E

*Notes:
A. See voltage and phasing per the notes on cover page.
B. Calculate per load and voltage drop.
C. All conduit diameters should be per code unless otherwise specified to allow for connector size.
D. Equipment grounding conductor and any splices must be insulated.
E. Refer to control and monitoring system installation instructions for more details on equipment information and the installation requirements.

IMPORTANT: Control wires (3) must be in separate conduit from line and load power wires (1, 2).

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REV.	
ADDENDUM 1	6/9/23

MOORPARK COLLEGE
BEACH VOLLEYBALL
COURTS

MOORPARK, CA

DESIGNED:	KL
DATE:	APRIL 4, 2023
DRAWN:	LK / DS
PROJ.	22-537
SCALE:	AS NOTED

SHEET TITLE
MUSCO LIGHTING
CONTROL SYSTEM
SUMMARY

DWG. NO.

E301

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TIME: 4:08 pm

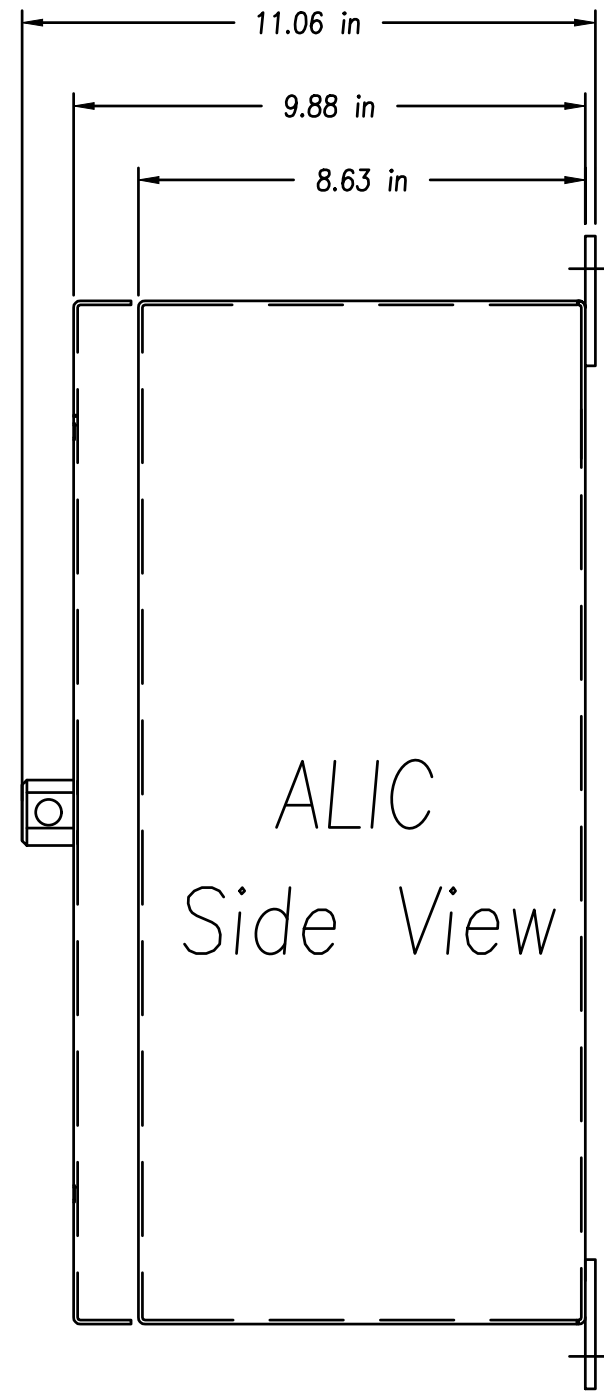
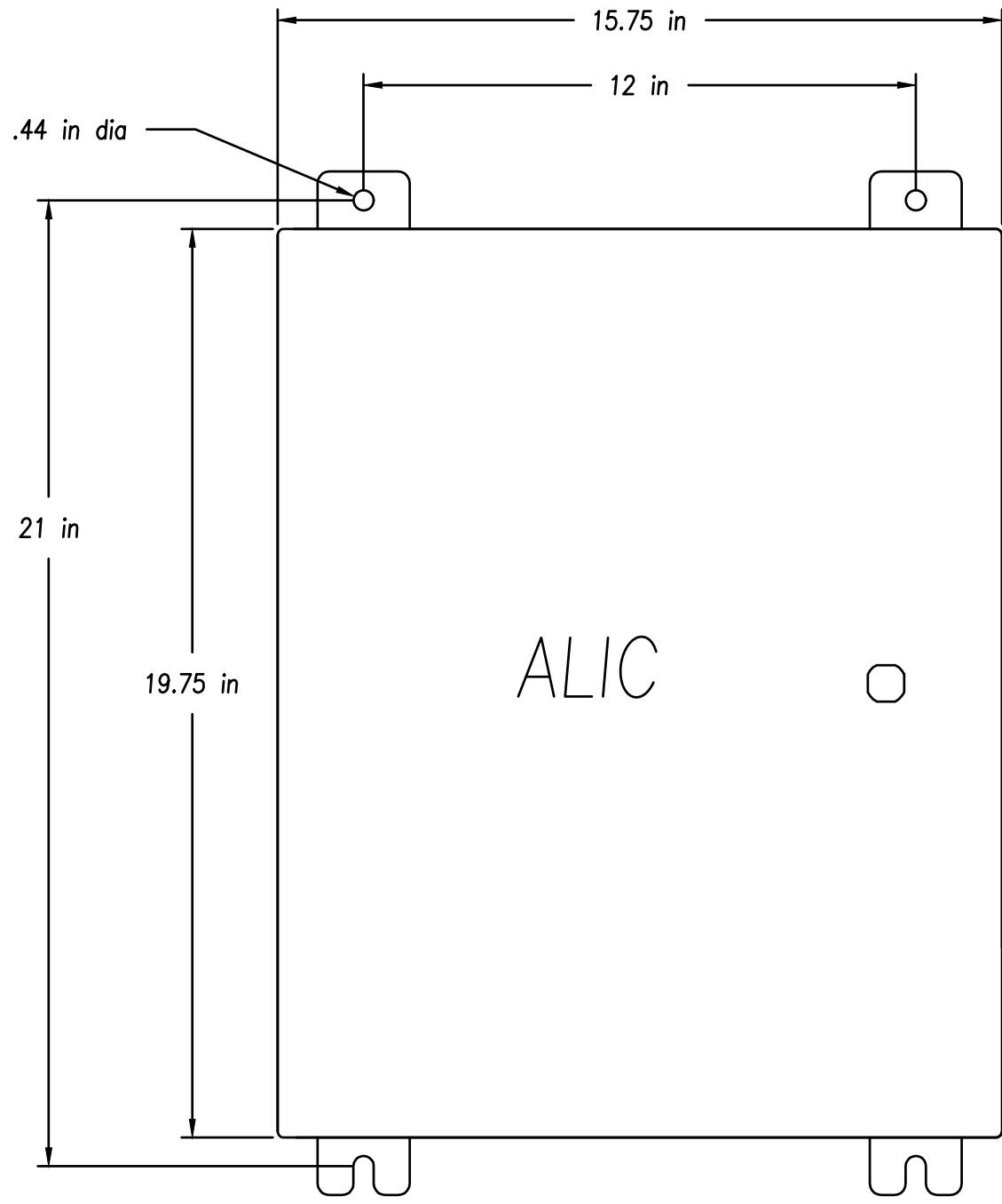
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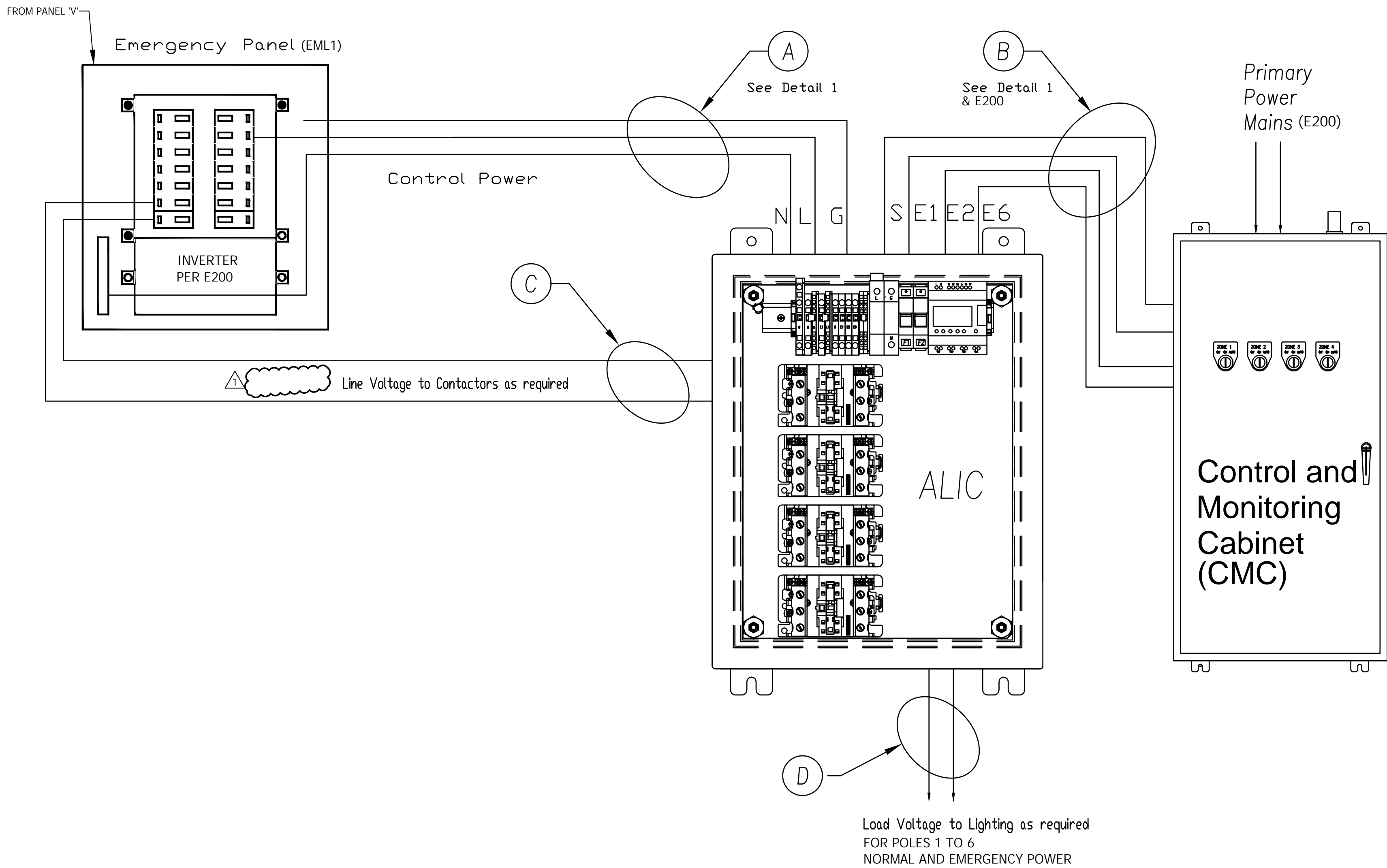


MUSCO:
Auxiliary Lighting Interface Cabinet (ALIC)
Standard Operation and Functionality

Functionality
The ALIC (UL924) provides monitoring of Controls and Monitoring Cabinet zones and primary 120V power. For the ALIC to work correctly, it and the emergency lighting fixtures will need to be powered from an Emergency Distribution Panel. This Emergency Distribution Panel is assumed to be powered from a UPS or automatic transfer switch, whose operation is to control the power source, either the generator or the mains.

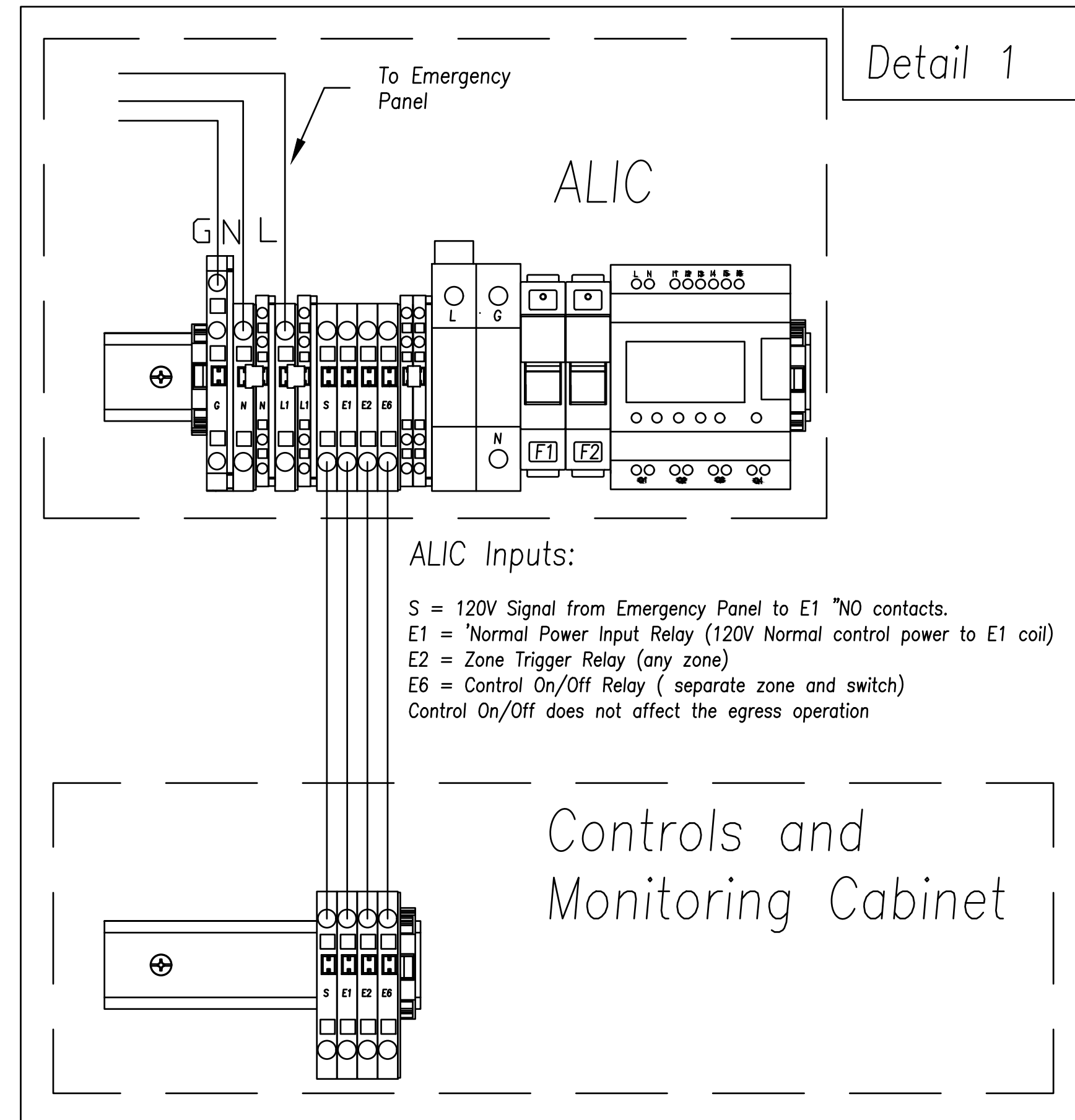
IMPORTANT: The 120 volt power (wire E1) from the Controls Monitoring Cabinet is being monitored as the mains or normal power. For best operation, the Controls and Monitoring Cabinet should be powered from the field lighting distribution panel or what is to be considered the main distribution panel.

- Standard sequence of egress operation
- 1) The ALIC sends 120V over the S wire to the normally open (N.O.) contacts of the E1, E2 and E6 (if present) relays in the CMC.
 - a) E1 is connected to the control circuit of the CMC to monitor Normal Power.
 - b) E2 is connected to the monitored zone(s) to monitor when the zone(s) is on
 - c) E6 is connected to the override zone if present. This zone can manually turn on or schedule the egress fixture. The manually override does not affect the egress operation
 - 2) Normal power (the mains) has an interruption, either sustained or momentary.
 - 3) E1 opens it's contacts cutting the monitored normal power input from the ALIC.
 - 4) The ALIC checks the monitored zone input from E2.
 - a) If the input was present the ALIC will output for egress. The ALIC will continue to output as long as the backup system provides power. Once normal power is restored and the ALIC receives an input from E1 the ALIC will delay off the egress output for 20min.
 - b) If the input was not present the ALIC will not output for egress



Contractor Notes:

Contractor is responsible for providing (A,B,C,D) cables and installation of cables from emergency panel to ALIC and from ALIC to Controls and Monitoring Cabinet.



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DSA
SUBMITTAL



REV.
ADDENDUM 1 6/9/23

MOORPARK COLLEGE
BEACH VOLLEYBALL
COURTS

MOORPARK, CA
DESIGNED: KL
DATE: APRIL 4, 2023
DRAWN: LK / DS
PROJ. 22-537
SCALE: AS NOTED

SHEET TITLE
MUSCO CONTROL
SYSTEM SUMMARY

DWG. NO.
E302