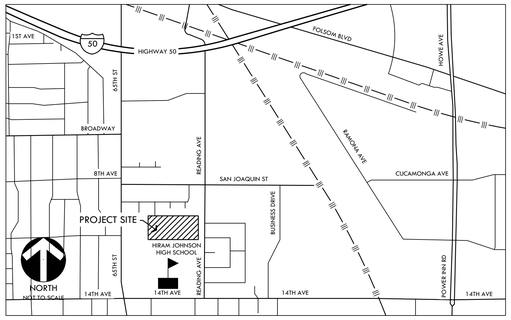
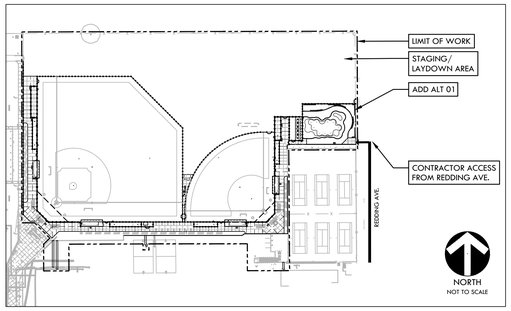
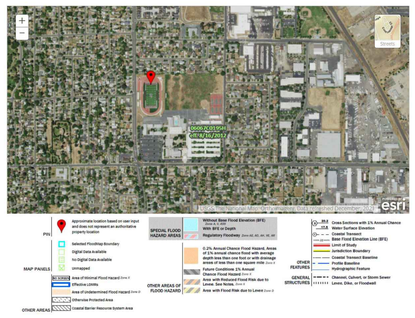
PROJECT MAP



VICINITY MAP



SITE MAP



CONSTRUCTION DRAWINGS FOR

HIRAM JOHNSON HIGH SCHOOL GOLF PRACTICE FACILITY, VARSITY BASEBALL AND SOFTBALL FIELDS

6879 14TH AVENUE, SACRAMENTO, CA 95820

SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

VERDE DESIGN, INC. PROJECT NO. 2203200

DSA APPLICATION NO. 02-120164

CONTACT INFORMATION

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PREPARED BY

REGISTERED LANDSCAPE ARCHITECT — MARK S. BAGINSKI — No. 4089 — Signature — EXPIRATION DATE: JULY 2023 — STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER — U.S. FERNANDEZ — E16890 — Exp. 06/30/23 — ELECTRICAL — STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER — TIM D. HYDE — No. S3260 — EXP. 3/31/23 — STRUCTURAL — STATE OF CALIFORNIA

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SHEET INDEX (64 SHEETS)

SHEET NO.	SHEET DESCRIPTION
LANDSCAPE	
C0.0	COVER SHEET
L0.1	ACCESSIBILITY PLAN
L0.2	FIRE LIFE SAFETY PLAN
L1.1	EXISTING CONDITIONS PLAN - BASEBALL FIELD
L1.2	EXISTING CONDITIONS PLAN - SOFTBALL FIELD AND GOLF
L2.1	EROSION AND SEDIMENT CONTROL PLAN
L3.1	DEMOLITION PLAN - BASEBALL FIELD
L3.2	DEMOLITION PLAN - SOFTBALL FIELD AND GOLF
L3.3	IRRIGATION DEMOLITION PLAN - BASEBALL FIELD
L3.4	IRRIGATION DEMOLITION PLAN - SOFTBALL FIELD AND GOLF
L4.1	GRADING PLAN - BASEBALL FIELD
L4.2	GRADING PLAN - SOFTBALL FIELD AND GOLF
L4.3	GRADING PLAN - GOLF ENLARGEMENT
L4.4	GRADING PLAN - CHEMICAL TREATMENT
L5.1	DRAINAGE AND UTILITY PLAN - BASEBALL FIELD
L5.2	DRAINAGE AND UTILITY PLAN - SOFTBALL FIELD AND GOLF
L6.1	LAYOUT PLAN - BASEBALL FIELD
L6.2	LAYOUT PLAN - SOFTBALL FIELD AND GOLF
L6.3	LAYOUT PLAN - GOLF ENLARGEMENT
L6.4	LAYOUT PLAN - GOLD ENLARGEMENT SYNTHETIC TURF
L7.1	MATERIAL AND DETAIL REFERENCE PLAN - BASEBALL FIELD
L7.2	MATERIAL AND DETAIL REFERENCE PLAN - SOFTBALL FIELD AND GOLF
L8.1	IRRIGATION PLAN - BASEBALL FIELD
L8.2	IRRIGATION PLAN - SOFTBALL FIELD AND GOLF
L9.1	PLANTING PLAN - BASEBALL FIELD
L9.2	PLANTING PLAN - SOFTBALL FIELD AND GOLF
D1.1	DRAINAGE AND UTILITY DETAILS
D1.2	DRAINAGE AND UTILITY DETAILS
D2.1	CONSTRUCTION DETAILS - HARDSCAPE
D3.1	FENCING DETAILS
D3.2	FENCING DETAILS
D3.3	FENCING DETAILS
D4.1	CONSTRUCTION DETAIL - BALL FIELDS
D4.2	CONSTRUCTION DETAILS - BASEBALL
D4.3	CONSTRUCTION DETAILS - BASEBALL
D4.4	CONSTRUCTION DETAILS - SOFTBALL
D4.5	CONSTRUCTION DETAILS - SOFTBALL
D4.6	CONSTRUCTION DETAILS - BASEBALL DUGOUTS
D4.7	CONSTRUCTION DETAILS - BASEBALL DUGOUTS
D4.8	CONSTRUCTION DETAILS - SOFTBALL DUGOUTS
D4.9	CONSTRUCTION DETAILS - SOFTBALL DUGOUTS
D5.1	CONSTRUCTION DETAILS - GOLF
D6.1	PLANTING AND IRRIGATION DETAILS
D6.2	PLANTING AND IRRIGATION DETAILS
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S1.1	STRUCTURAL NOTES & MATERIAL GRADES
S2.1	DUGOUT - STORAGE ON LEFT PLANS, SECTIONS, ELEVATIONS AND DETAILS
S2.2	DUGOUT - STORAGE ON RIGHT PLANS, SECTIONS, ELEVATIONS AND DETAILS
S4.1	DUGOUT STRUCTURAL DETAILS
S8.1	BB, SB & GOLF - SITE STRUCTURES FOUNDATION DETAILS
ELECTRICAL	
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E1.0	ELECTRICAL CAMPUS OVERALL SITE PLAN
E2.1	ENLARGED BASEBALL AND SOFTBALL FIELD ELECTRICAL NEW SITE PLAN
E3.1	ELECTRICAL FLOOR PLAN - DUGOUTS (SOFTBALL)
E3.2	ELECTRICAL FLOOR PLAN - DUGOUTS (BASEBALL)
E3.3	ELECTRICAL PLAN - BATTING CAGE (BASEBALL & SOFTBALL)
E5.1	ELECTRICAL SINGLE LINE DIAGRAM
E7.1	ELECTRICAL DETAILS
E7.4	ELECTRICAL DETAILS
E7.5	ELECTRICAL DETAILS
NEVCO	
S80.1	COVER SHEET
S80.3	STRUCTURAL NOTES & SPECIAL INSPECTIONS
S82.2	TWO COLUMN CAISSON - BOLTED
S85.1	ATTACHMENT DETAILS
S85.2	OPTIONAL SCOREBOARD FEATURE ATTACHMENT DETAILS

SCOPE OF WORK

SCOPE OF WORK TO INCLUDE, BUT NOT LIMITED TO, THE FOLLOWING:
REMOVAL OF EXISTING BLEACHERS AND SELECTIVE FENCING. SITE RELOCATION OF EXISTING BASEBALL AND SOFTBALL FIELDS. PROPOSED IMPROVEMENTS AT THE BASEBALL FIELD TO INCLUDE CONSTRUCTION OF NEW 30' TALL CHAIN LINK BACKSTOP WITH NETTED HOOD, NETTING FENCING ALONG THIRD-BASE LINE. SOFTBALL FIELD TO INCLUDE 30' TALL CHAIN LINK BACKSTOP AND NETTING FENCING ALONG FIRST-BASE LINE. BOTH BASEBALL AND SOFTBALL TO INCLUDE HOME AND VISITOR CMU DUGOUTS WITH STORAGE CLOSETS, SINGLE STATION BATTING CAGES, SINGLE STATION BULLPEN FOR VISITORS AND DOUBLE STATION BULLPEN FOR HOME SIDE. NEW DOUBLE SIDED SPORT SPECIFIC SCOREBOARDS AND FLAG POLE LOCATED ADJACENT TO SCOREBOARD. CONSTRUCTION TO INCLUDE PERIMETER FENCING WITH MOW BANDS FOR EACH FIELD. NEW SYNTHETIC TURF GOLF PRACTICE FACILITY WITH ASSOCIATED FENCING. INSTALLATION OF ASSOCIATED HARDSCAPE, FENCING, LANDSCAPE, DRINKING FOUNTAIN, SITE UTILITIES, ELECTRICAL INFRASTRUCTURE, PATHWAY AND PATH OF TRAVEL FOR ACCESSIBILITY REQUIREMENTS.

BID ADDITIVE ALTERNATES

01 ADDITIVE ALTERNATE #01: INSTALL SYNTHETIC TURF AT GOLF PUTTING GREEN PERIMETER IN LIEU OF LANDSCAPE AND IRRIGATION
IF BID ALTERNATE IS ACCEPTED, WORK TO INCLUDE BUT NOT LIMITED TO CONSTRUCTION ON SYNTHETIC TURF PUTTING GREEN PERIMETER AND RELATED IMPROVEMENTS INCLUDING BUT NOT LIMITED TO HARDSCAPE, UTILITIES AND IRRIGATION.

GENERAL NOTES

1. PRIOR TO BIDDING, THE GENERAL CONTRACTOR SHALL VISIT & INSPECT THE SITE & FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS AFFECTING THE NEW WORK. THE GENERAL CONTRACTOR SHALL NOT DISPUTE, COMPLAIN OR ASSERT THAT THERE IS ANY MISUNDERSTANDING IN REGARDS TO LOCATION, EXTENT, NATURE OR AMOUNT OF WORK TO BE PERFORMED UNDER THIS CONTRACT DUE TO THE CONTRACTOR'S FAILURE TO INSPECT THE SITE. CONTRACTOR SHALL NOTIFY DISTRICT'S REPRESENTATIVE OF ANY CONDITIONS, REQUIRING WORK, WHICH ARE NOT COVERED IN THE CONTRACT DOCUMENTS.
2. NO CONSTRUCTION SHALL COMMENCE WITHOUT THE OFFICIAL NOTICE TO PROCEED FROM THE DISTRICT.
3. THE GENERAL CONTRACTOR & SUBCONTRACTORS ARE RESPONSIBLE FOR LOCATING & VERIFYING ALL EXISTING UNDERGROUND UTILITIES IN ALL AREAS OF NEW WORK PRIOR TO COMMENCEMENT OF EXCAVATION. EXISTING UTILITIES SHOWN ON THE DRAWINGS ARE APPROXIMATE ROUTING LOCATIONS AS BEST DETERMINED FROM EXISTING DRAWINGS AND THE SCHOOL DISTRICT, BUT SHOULD NOT BE CONSTRUED TO REPRESENT ALL OF THE EXISTING UNDERGROUND UTILITIES. THE CONTRACTOR SHALL POTHOLE ALL EXISTING UTILITIES THAT MAY BE AFFECTED BY NEW FACILITIES IN THIS CONTRACT. VERIFY ACTUAL LOCATION AND DEPTH OF UTILITIES, AND REPORT POTENTIAL CONFLICTS TO THE DISTRICT'S REPRESENTATIVE PRIOR TO EXCAVATING FOR NEW FACILITIES.
4. CONTRACTOR SHALL TAKE ALL NECESSARY STEPS TO PROTECT ALL EXISTING UTILITIES, WHETHER SHOWN OR NOT, IN THE CONTRACT DOCUMENTS. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGES TO EXISTING UTILITIES CAUSED BY ITS OPERATIONS.
5. THE CONTRACTOR SHALL PROTECT ALL EXISTING ITEMS WITHIN SITE IMPROVEMENTS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR ALL DAMAGED AREAS TO THEIR ORIGINAL CONDITION OR BETTER AT CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE DISTRICT'S REPRESENTATIVE.
6. DIMENSIONS AND LOCATIONS OF EXISTING FACILITIES ARE APPROXIMATE AND SHALL BE FIELD VERIFIED BY CONTRACTOR. ANY DISCREPANCIES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE DISTRICT'S REPRESENTATIVE.
7. ALL WORK SHALL CONFORM TO THE LATEST EDITION OF THE CALIFORNIA BUILDING CODE, CALIFORNIA PLUMBING CODE, CALIFORNIA FIRE CODE AND ALL APPLICABLE STATE AND LOCAL CODES AND ORDINANCES, AS WELL AS ADAPTED STANDARDS.
8. ALL NOTES ARE FOR GENERAL REFERENCE IN CONJUNCTION WITH, AND AS A SUPPLEMENT TO, THE WRITTEN SPECIFICATIONS AND DETAILS ASSOCIATED WITH THE CONTRACT DOCUMENTS.
9. THIS DRAWING SET SHALL BE USED IN CONJUNCTION WITH THE CSI FORMAT SPECIFICATIONS PUBLISHED IN BOOK FORM. COMBINED, THEY ARE HEREIN REFERRED TO AS THE "CONTRACT DOCUMENTS".
10. DIMENSIONS ON WORKING DRAWINGS TAKE PRECEDENCE OVER MEASURED ELEMENTS. CONTRACTOR SHALL NOT SCALE DRAWINGS.
11. ALL TYPICAL DETAILS SHALL APPLY UNLESS NOTED OTHERWISE.
12. CONTRACTOR SHALL PROVIDE ADEQUATE DUST CONTROL AND KEEP MUD AND DEBRIS OFF THE PUBLIC RIGHT-OF-WAY AT ALL TIMES.
13. ALL TRENCHES AND EXCAVATIONS SHALL BE CONSTRUCTED IN STRICT COMPLIANCE WITH THE APPLICABLE SECTIONS OF CALIFORNIA AND FEDERAL O.S.H.A. REQUIREMENTS AND OTHER APPLICABLE SAFETY ORDINANCES. CONTRACTOR SHALL BEAR FULL RESPONSIBILITY FOR TRENCH SHORING DESIGN AND INSTALLATION.
14. ANY ALTERATIONS OF EXISTING FACILITIES TO ACCOMMODATE THE INSTALLATION OF NEW WORK SHALL BE REVIEWED BY THE DISTRICT'S REPRESENTATIVE PRIOR TO COMMENCING WORK.
15. CONTRACTOR SHALL COORDINATE ALL WORK TO AVOID DISTURBING STUDENTS OR TEACHERS DURING SCHOOL HOURS. ANY DISRUPTION OF THE UTILITIES MUST BE COORDINATED AND APPROVED BY THE DISTRICT'S REPRESENTATIVE AND INSPECTOR OF RECORD PRIOR TO COMMENCING WORK.
16. ALL TEMPORARY WORK SHALL BE CONSIDERED A PART OF THIS CONTRACT AND NO EXTRA CHARGES WILL BE ALLOWED. THIS SHALL INCLUDE MINOR ITEMS OF MATERIAL OR EQUIPMENT NECESSARY TO MEET THE REQUIREMENTS AND INTENT OF THE PROJECT.
17. THE PLANS AND SPECIFICATIONS DO NOT UNDERTAKE TO SHOW OR LIST EVERY ITEM TO BE PROVIDED, BUT RATHER TO DEFINE THE REQUIREMENTS FOR A FULL AND WORKING SYSTEM FROM THE STANDPOINT OF THE END USER. FOR THIS REASON, WHEN AN ITEM NOT SHOWN OR LISTED IS CLEARLY NECESSARY FOR PROPER CONTROL/OPERATION OF EQUIPMENT WHICH IS SHOWN OR LISTED, THE CONTRACTOR SHALL PROVIDE AN ITEM WHICH WILL ALLOW THE SYSTEM TO FUNCTION PROPERLY AT NO INCREASE IN PRICE.
18. ALL CONTRACTORS SHALL REMOVE TRASH AND DEBRIS STEMMING FROM THEIR WORK ON A DAILY BASIS. PROJECT SITE SHALL BE MAINTAINED IN A CLEAN AND ORDERLY CONDITION.
19. THE DETAILS REFLECT THE DESIGN INTENT FOR TYPICAL CONDITIONS. THE CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS AND SHALL INCLUDE, IN HIS SCOPE, THE COST FOR COMPLETE FINISHED INSTALLATIONS, INCLUDING ANOMALIES, OF ALL TRADES.
20. NO WORK SHALL COMMENCE WITH UNAPPROVED MATERIALS. ANY WORK DONE WITH UNAPPROVED MATERIALS AND EQUIPMENT IS AT THE CONTRACTOR'S RISK AND IS SUBJECT TO REJECTION AND REPLACEMENT. SEE SPECIFICATIONS FOR SUBMITTAL AND SUBSTITUTION REQUIREMENTS.
21. CONSTRUCTION MATERIALS STORED ON THE SITE SHALL BE PROPERLY STACKED AND PROTECTED SO AS TO PREVENT DAMAGE OR DETERIORATION UNTIL USED. FAILURE IN THIS REGARD MAY BE CAUSE FOR REJECTION OF MATERIAL AND/OR WORK.
22. ALL EQUIPMENT SHALL BE FABRICATED FROM FIELD VERIFIED DIMENSIONS AND APPROVED SHOP DRAWINGS. COORDINATE MECHANICAL, PLUMBING AND ELECTRICAL EQUIPMENT.
23. CONTRACTOR SHALL PERFORM THEIR CONSTRUCTION AND OPERATIONS IN A MANNER WHICH WILL NOT ALLOW HARMFUL POLLUTANTS TO ENTER THE STORM DRAIN SYSTEM. TO ENSURE COMPLIANCE, THE CONTRACTOR SHALL IMPLEMENT THE APPROPRIATE BEST MANAGEMENT PRACTICE (BMP) AS OUTLINED IN THE BROCHURES ENTITLED "BEST MANAGEMENT PRACTICE FOR THE CONSTRUCTION INDUSTRY" ISSUED BY THE CALIFORNIA STORM WATER QUALITY ASSOCIATION, NONPOINT SOURCE POLLUTION CONTROL PROGRAM, TO SUIT THE CONSTRUCTION SITE AND JOB CONDITION. THE CONTRACTOR SHALL PRESENT THEIR PROPOSED BMP AT THE PRECONSTRUCTION MEETING FOR DISCUSSION AND APPROVAL.
24. CONTRACTOR SHALL PROVIDE TEMPORARY CONSTRUCTION FENCING PER CONTRACT DOCUMENTS TO SERVE LIMIT OF WORK AREAS. FENCING MAY BE ADJUSTED DURING CONSTRUCTION BASED ON CONSTRUCTION SEQUENCE OR DISTRICT REPRESENTATIVE'S DIRECTION.
25. OVERNIGHT PARKING OF CONSTRUCTION EQUIPMENT IN THE STREET RIGHT-OF-WAY SHALL NOT BE PERMITTED.

DSA SUPPLEMENTARY CONDITIONS

1. FABRICATION AND INSTALLATION OF DEFERRED SUBMITTAL ITEMS SHALL NOT BE STARTED UNTIL CONTRACTOR'S DRAWINGS, SPECIFICATIONS, AND ENGINEERING CALCULATIONS FOR THE ACTUAL SYSTEMS TO BE INSTALLED HAVE BEEN ACCEPTED AND SIGNED BY THE ARCHITECT OR STRUCTURAL ENGINEER AND APPROVED BY THE DSA. LIST DEFERRED SUBMITTAL ITEMS FOR THIS PROJECT.
2. CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDUM OR A CONSTRUCTION CHANGED DOCUMENT (CCD) APPROVED BY THE DIVISION OF THE STATE ARCHITECT PRIOR TO FABRICATION AND INSTALLATION, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCR AND DSA IR-6.
3. A "DSA CERTIFIED" PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY THE DSA SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, CCR.
4. A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.
5. THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CCR. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CCR, A CONSTRUCTION CHANGE DOCUMENT (CCD), OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK. (SECTION 4-317(C), PART 1, TITLE 24, CCR)
6. GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.
7. THE PROJECT WILL BE COMPLIANT WITH CFC CH. 33 - FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION

APPLICABLE CODES

1. 2019 CBC CHAPTER 35: PROVIDE ALL THE APPLICABLE/ADOPTED STANDARDS. WHERE A PARTICULAR STANDARD IS REFERENCED IN THE CODE BUT DOES NOT APPEAR AS AN ADOPTED STANDARD IT MAY STILL BE USED. APPLY ONLY THE PORTION OF THE STANDARD THAT IS APPLICABLE TO THE CODE SECTION WHERE THE STANDARD IS REFERENCED, NOT THE ENTIRE STANDARD.

   2002 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R.
   2019 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R.
   (2018 INTERNATIONAL BUILDING CODE VOLUMES 1-2)
   2019 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R.
   (2017 NATIONAL ELECTRICAL CODE)
   2019 CALIFORNIA MECHANICAL CODE (CMC) PART 4, TITLE 24 C.C.R.
   (2018 UNIFORM MECHANICAL CODE)
   2019 CALIFORNIA PLUMBING CODE (CDC), PART 5, TITLE 24 C.C.R.
   (2018 UNIFORM PLUMBING CODE)
   2019 CALIFORNIA ENERGY CODE, PART 6, TITLE 24 C.C.R.
   2019 CALIFORNIA FIRE CODE, PART 9, TITLE 24 C.C.R.
   (2018 INTERNATIONAL FIRE CODE AND 2016 CALIFORNIA AMENDMENTS)
   2019 CALIFORNIA EXISTING BUILDING CODE, PART 10, TITLE 24 C.C.R.
   (2018 INTERNATIONAL EXISTING BUILDING CODE)
   2019 CALIFORNIA "GREEN" BUILDING REQUIREMENTS OR CAL GREEN, PART 11, TITLE 24 C.C.R.
   2019 CALIFORNIA REFERENCED STANDARDS, PART 12, TITLE 24 C.C.R.
   2019 TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.

   LIST OF FEDERAL CODES AND STANDARDS (IF APPLICABLE)
   AMERICANS WITH DISABILITIES ACT (ADA), TITLE II OR TITLE III
   FOR TITLE II: UNIFORM FEDERAL ACCESSIBILITY STANDARDS (UFAS) — 28 CFR 35.151(C)
   OR ADA STANDARDS FOR ACCESSIBLE DESIGN (APPENDIX A OF 28 CFR PART 35)
   FOR TITLE III: ADA STANDARDS FOR ACCESSIBLE DESIGN (APPENDIX A OF 28 CFR PART 36) — 28 CFR 36.406
   2010 AMERICANS WITH DISABILITIES ACT (ADA) STANDARDS FOR ACCESSIBLE DESIGN

   NOTE: TITLE II APPLIES TO PROJECTS FUNDED AND/OR USED BY STATE AND LOCAL GOVERNMENT SERVICES. TITLE III COVERS PUBLIC ACCOMMODATIONS AND COMMERCIAL FACILITIES. DEPENDING ON THE USE AND FUNDING, BOTH TITLE MAY APPLY TO THE PROJECT.

NFPA 13	AUTOMATIC SPRINKLER SYSTEMS	2016 EDITION
NFPA 14	STANDPIPE SYSTEMS	2016 EDITION
NFPA 17	DRY CHEMICAL EXTINGUISHING SYSTEMS	2016 EDITION
NFPA 17A	WET CHEMICAL EXTINGUISHING SYSTEMS	2016 EDITION
NFPA 20	STATIONARY FIRE PUMPS	2016 EDITION
NFPA 24	PRIVATE FIRE SERVICE MAINS	2016 EDITION
NFPA 72	NATIONAL FIRE ALARM AND SIGNALING CODE (CALIFORNIA AMENDED) (NOTE SEE UL STANDARD 1971 FOR "VISUAL DEVICES")	2016 EDITION
NFPA 253	CRITICAL RADIANT FLUX OF FLOOR COVERING SYSTEMS	2015 EDITION
NFPA 2001	CLEAN AGENT FIRE EXTINGUISHING SYSTEMS	2015 EDITION
ASME 17.1	ELEVATOR STANDARD	2015 EDITION

   REFERENCE CODE SECTIONS FOR APPLICABLE STANDARDS - 2019 CALIFORNIA BUILDING CODE (FOR SFM) REFERENCED STANDARDS CHAPTER 35

   ADA STANDARD FOR ACCESSIBLE DESIGN (APPENDIX A OF 28 CFR PART 36)

2. THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT WORK OF THE ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS, A CHANGE ORDER, OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY THE OWNER REPRESENTATIVE BEFORE PROCEEDING WITH THE WORK.
3. ALL EXISTING FIRE EXTINGUISHING SYSTEMS ARE IN COMPLIANCE WITH UL 300, CBC 904.11, CFC 904.11.

* THESE DRAWINGS AND/OR SPECIFICATIONS AND/OR CALCULATIONS HAS BEEN PREPARED BY OTHER DESIGN PROFESSIONALS OR CONSULTANTS WHO ARE LICENSED AND/OR AUTHORIZED TO PREPARE SUCH DRAWINGS IN THIS STATE. IT HAS BEEN EXAMINED BY ME FOR:

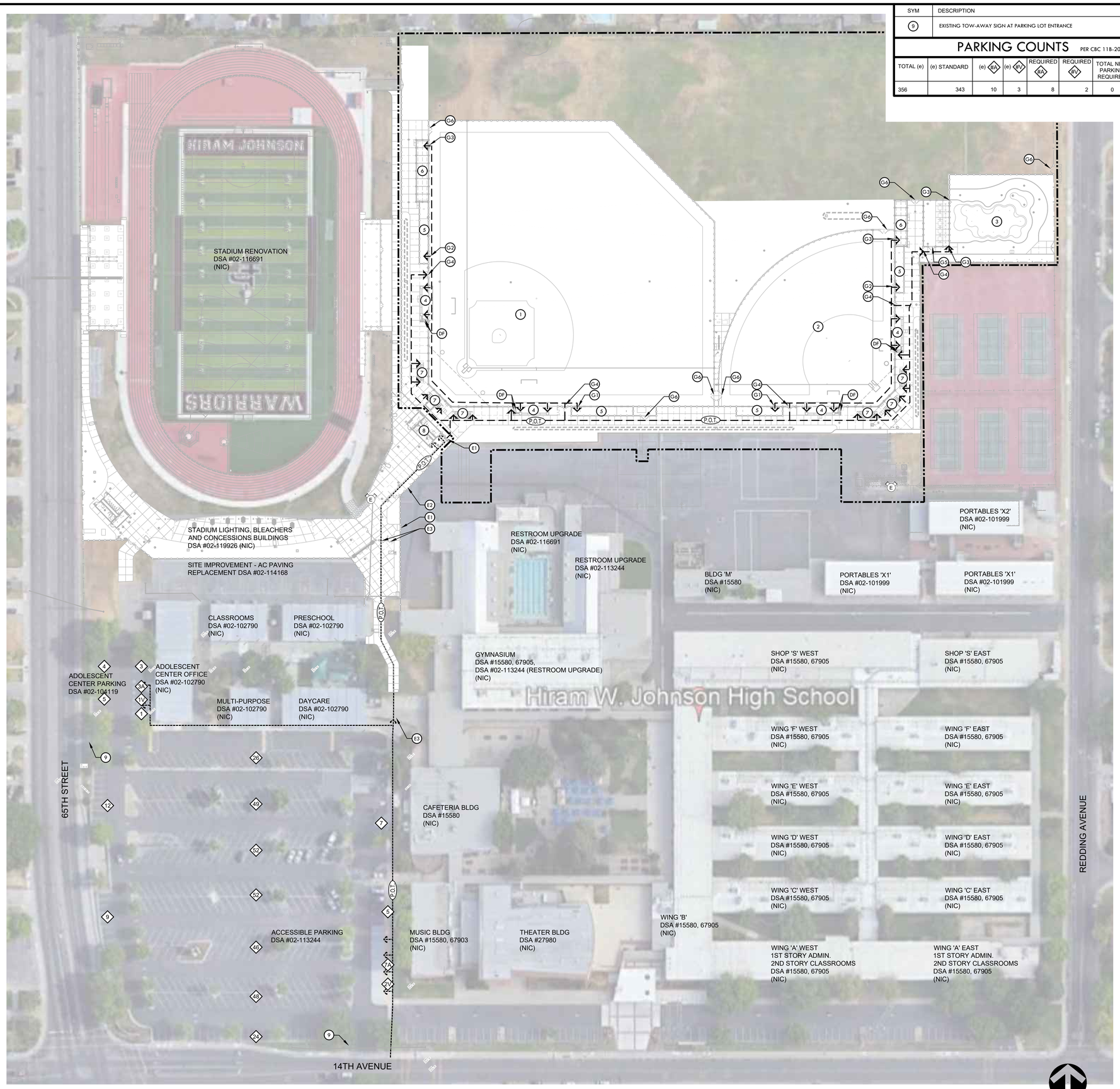
1) DESIGN INTENT AND APPEARS TO MEET THE APPROPRIATE REQUIREMENTS OF TITLE 24, CALIFORNIA CODE OF REGULATIONS AND THE PROJECT SPECIFICATIONS PREPARED BY ME, AND
2) COORDINATION WITH MY PLANS AND SPECIFICATIONS AND IS ACCEPTABLE FOR INCORPORATION INTO THE CONSTRUCTION OF THIS PROJECT.

THE STATEMENT OF GENERAL CONFORMANCE "SHALL NOT BE CONSTRUED AS RELIEVING ME OF MY RIGHTS, DUTIES, AND RESPONSIBILITIES UNDER SECTION 17302 AND 81138 OF THE EDUCATION CODE AND SECTIONS 4-336 , 4-341 AND 4-344" OF TITLE 24, PART 1. (TITLE 24, PART 1, SECTION 4-317 (B))

TIM D. HYDE, STRUCTURAL ENGINEER
LICENSE #. S3260
EXP. DATE 05/27/2022

HIRAM JOHNSON HIGH SCHOOL GOLF PRACTICE FACILITY, VARSITY BASEBALL AND SOFTBALL FIELDS
DSA ADDENDUM SUBMITTAL - 09/21/2022

DRAWING NAME: Y:\Projects-FY2022\2203200 - Hiram Johnson Golf Baseball Softball\CAD_C.dwg
PLOT DATE: 09-15-22 PLOTTED BY: stotlon27



SYM	DESCRIPTION
9	EXISTING TOW-AWAY SIGN AT PARKING LOT ENTRANCE

PARKING COUNTS

PER CBC 118-208.2

TOTAL (e)	(e) STANDARD	(e) VA	(e) VV	REQUIRED VA	REQUIRED VV	TOTAL NEW PARKING REQUIRED
356	343	10	3	8	2	0

GENERAL SHEET NOTES

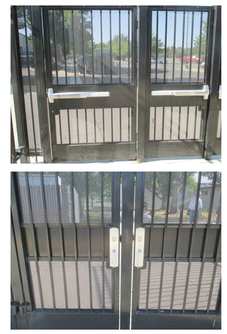
1. ACCESSIBLE PATH OF TRAVEL AS INDICATED ON PLAN IS A BARRIER-FREE ACCESS ROUTE WITHOUT ANY ABRUPT LEVEL CHANGES EXCEEDING 1/2" BEVELED AT 1:2 MAXIMUM SLOPE, OR VERTICAL LEVEL CHANGES NOT EXCEEDING 1/4" MAXIMUM, AND IS AT LEAST 48" WIDE. SURFACE IS SLIP-RESISTANT, STABLE, FIRM, AND SMOOTH. CROSS SLOPE DOES NOT EXCEED 2%, AND SLOPE IN THE DIRECTION OF TRAVEL IS LESS THAN 5% UNLESS OTHERWISE NOTED. ACCESSIBLE PATH OF TRAVEL SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MINIMUM AND FROM OBJECTS PROTRUDING MORE THAN 4" FROM WALL BETWEEN 27" AND 80" AFF. ARCHITECT SHALL VERIFY THAT THERE ARE NO BARRIERS IN THE PATH OF TRAVEL.
2. CONTRACTOR SHALL VERIFY THAT ALL BARRIERS IN THE PATH OF TRAVEL HAVE BEEN REMOVED, OR WILL BE REMOVED, UNDER THIS PROJECT, AND THAT THE PATH OF TRAVEL COMPLIES WITH CBC SECTION 11338 - GENERAL ACCESSIBILITY FOR ENTRANCES, EXITS AND PATHS OF TRAVEL
3. CONTRACTOR TO ENSURE ACCESS THROUGH CAMPUS BY PROVIDING STRATEGIC CONSTRUCTION FENCING AND TRENCH LIDS AT APPROPRIATE LOCATIONS. VERIFY LOCATIONS WITH OWNER REPRESENTATIVE. SCHEDULE TRENCHING TO BE COMPLETED DURING PERIODS OF LEAST INTERRUPTION FOR CAMPUS USE.
4. THE INTENT OF THE DRAWINGS AND SPECIFICATIONS IS TO MODIFY THE FACILITY FOR ACCESSIBILITY IN ACCORDANCE WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS. SHOULD ANY CONDITIONS DEVELOP THAT ARE NOT COVERED BY THE CONTRACT DOCUMENTS SUCH THAT THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, A CONSTRUCTION CHANGE DIRECTIVE (CCD) DETAILING AND SPECIFYING THE WORK REQUIRED TO BRING CONDITIONS INTO COMPLIANCE WITH TITLE 24 SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK.

DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE STATEMENT:
THE POT IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS IS COMPLIANT WITH CURRENT APPLICABLE CALIFORNIA BUILDING CODE ACCESSIBILITY PROVISIONS **FOR PATH OF TRAVEL REQUIREMENTS AND STRUCTURAL REPAIRS**. AS PART OF THE DESIGN OF THIS PROJECT, THE POT WAS EXAMINED AND ANY ELEMENTS, COMPONENTS OR PORTION OF THE POT THAT WERE DETERMINED TO BE NONCOMPLIANT 1) HAVE BEEN IDENTIFIED AND 2) 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 NONCOMPLIANT ELEMENTS, COMPONENTS OR PORTION OF THE POT 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 POT ITEMS WITHIN THE SCOPE OF THE PROJECT REPRESENTED AS CODE COMPLIANT ARE FOUND TO BE NONCONFORMING BEYOND REASONABLE CONSTRUCTION TOLERANCES, THEY SHALL BE BROUGHT INTO COMPLIANCE WITH THE CBC AS PART OF THIS PROJECT BY MEANS OF A "CONSTRUCTION CHANGE DOCUMENT" (FORM **DSA 140**).

NOTE: THIS DRAWING IS FOR AGENCY APPROVAL ONLY - NOT FOR CONSTRUCTION.

ACCESSIBILITY LEGEND

SYM	DESCRIPTION	
	PROJECT LIMIT OF WORK	
P.O.T.	ACCESSIBLE PATH OF TRAVEL - PATH OF TRAVEL SHALL NOT EXCEED 2% SLOPE IN EITHER DIRECTION. ALTERATIONS MUST BE MADE TO ENSURE SLOPE IS LESS THAN 2% IN EITHER DIRECTION FOR ENTIRE PATH OF TRAVEL.	
P.O.T.	EXISTING ACCESSIBLE PATH OF TRAVEL	
	PEDESTRIAN ACCESS	
VA	NUMBER OF EXISTING ACCESSIBLE PARKING STALLS;	
VV	NUMBER OF EXISTING ACCESSIBLE VAN PARKING STALLS;	
#	NUMBER OF EXISTING PARKING STALLS	
DF	PROPOSED DRINKING FOUNTAIN	H D1.1
E	EXISTING FIRE HYDRANT	
G1	42" TALL X 4' WIDE CHAINLINK SWING GATE - ACCESSIBLE	K D3.1
G2	6' TALL X 4' WIDE CHAINLINK SWING GATE - ACCESSIBLE	M D3.1
G3	8' TALL X 4' WIDE CHAINLINK SWING GATE WITH TRANSOM - ACCESSIBLE	L D3.1
G4	6' TALL X 8' WIDE CHAINLINK DOUBLE SWING GATE - ACCESSIBLE	O D3.1
G5	8' TALL X 10' WIDE DOUBLE MIXED LEAF CHAINLINK WITH TRANSOM	A D3.2
G6	6' TALL X 12' WIDE CHAINLINK DOUBLE SWING GATE	M D3.2
E1	EXISTING GATE - 8' TALL X 8' WIDE CHAINLINK SWING GATE	
E2	EXISTING GATE - 8' TALL X 12' WIDE CHAINLINK SWING GATE	
E3	EXISTING ACCESSIBLE GATE 	
1	PROPOSED BASEBALL FIELD	
2	PROPOSED SOFTBALL FIELD	
3	PROPOSED GOLF PRACTICE AREA	
4	PROPOSED DUGOUTS	
5	PROPOSED BULLPENS	
6	PROPOSED BATTING CAGE	
7	PROPOSED 4-ROW BLEACHERS	
8	EXISTING ACCESSIBLE RESTROOM/CONCESSION BUILDING DSA#02-119926	

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tel: 916.415.6554
fax: 916.415.6525
www.VerdeDesigninc.com

STAMP

REGISTERED LANDSCAPE ARCHITECT
MARK S. BASINGER
No. 4067
EXPIRATION DATE: JULY 2023
STATE OF CALIFORNIA

CONSULTANT

KEYMAP

SHEET TITLE
ACCESSIBILITY PLAN

PROJECT NAME
HIRAM JOHNSON HIGH SCHOOL
GOLF PRACTICE FACILITY, VARSITY BASEBALL AND SOFTBALL FIELDS

PROJECT ADDRESS
6879 14TH AVENUE
SACRAMENTO, CA 95820

SUBMITTAL	DATE
DD 50% SUBMITTAL	04/15/22
100% DSA SUBMITTAL	05/27/22
DSA BACK CHECK	08/11/22
DSA ADDENDUM SUBMITTAL	09/16/22

NO.	REVISIONS	DATE
1	ADDENDUM	09/16/22

DRAWN BY	CHECKED BY
KL	MB/CS
DATE ISSUED	SCALE
09/16/2022	1" = 50'-0"
PROJ. NO.	2203200
SHEET NO.	L0.1

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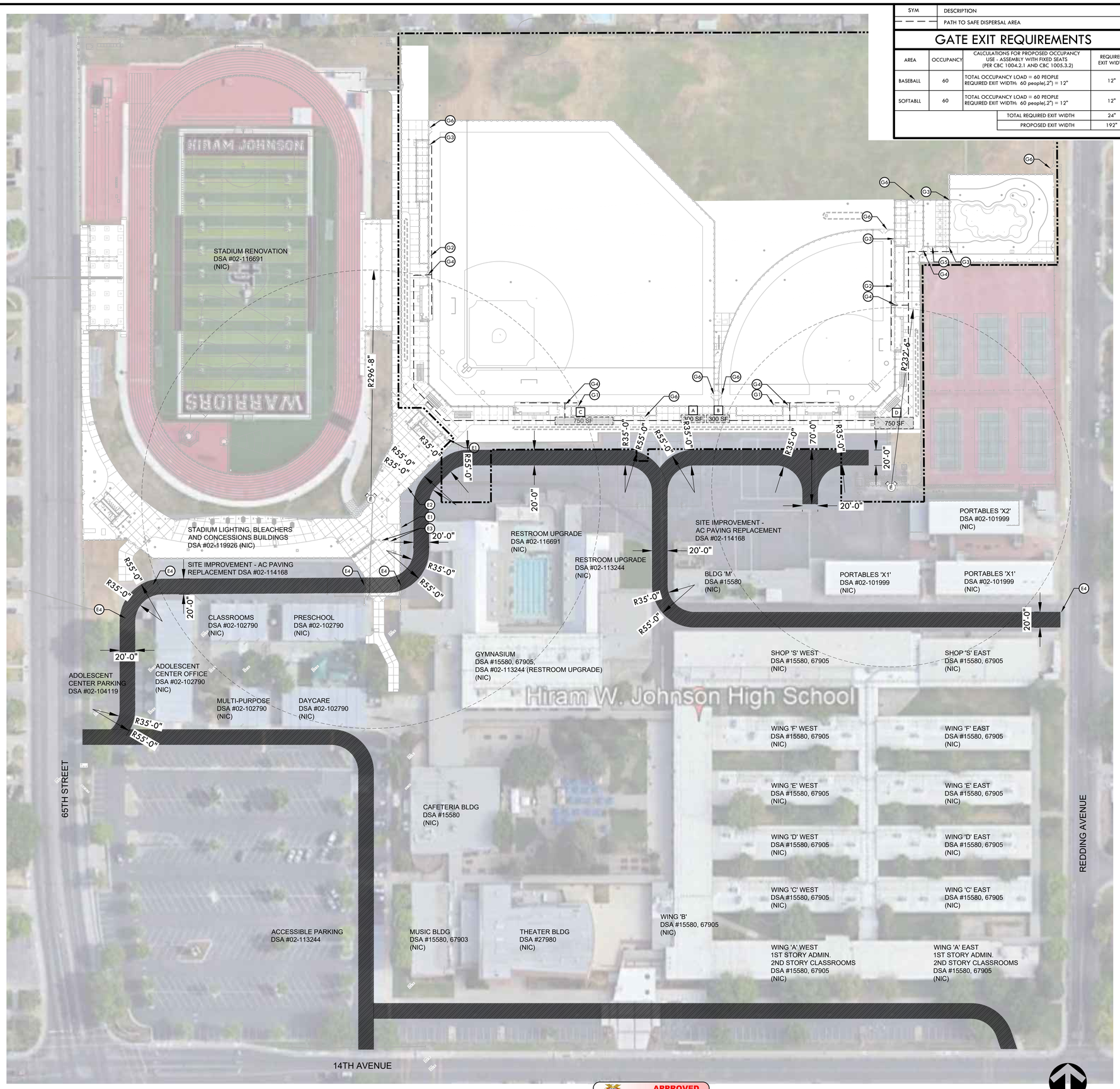
PLOT DATE: 09-15-22 PLOTTED BY: station27



SYM	DESCRIPTION
- - - -	PATH TO SAFE DISPERSAL AREA

GATE EXIT REQUIREMENTS

AREA	OCCUPANCY	CALCULATIONS FOR PROPOSED OCCUPANCY USE - ASSEMBLY WITH FIXED SEATS (PER CBC 1004.2.1 AND CBC 1005.3.2)	REQUIRED EXIT WIDTH
BASEBALL	60	TOTAL OCCUPANCY LOAD = 60 PEOPLE REQUIRED EXIT WIDTH: 60 people(.2") = 12"	12"
SOFTABLL	60	TOTAL OCCUPANCY LOAD = 60 PEOPLE REQUIRED EXIT WIDTH: 60 people(.2") = 12"	12"
		TOTAL REQUIRED EXIT WIDTH	24"
		PROPOSED EXIT WIDTH	192"

FIRE/LIFE SAFETY PLAN NOTES

1. THE INTENT OF THE DRAWINGS AND SPECIFICATIONS IS TO MODIFY THE FACILITY FOR ACCESSIBILITY IN ACCORDANCE WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS. SHOULD ANY CONDITIONS DEVELOP THAT ARE NOT COVERED BY THE CONTRACT DOCUMENTS SUCH THAT THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, A CONSTRUCTION CHANGE DIRECTIVE (CCD) DETAILING AND SPECIFYING THE WORK REQUIRED TO BRING CONDITIONS INTO COMPLIANCE WITH TITLE 24 SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK.

NOTE: THIS DRAWING IS FOR AGENCY APPROVAL ONLY - NOT FOR CONSTRUCTION.

FIRE LIFE SAFETY LEGEND

SYM	DESCRIPTION	
	PROJECT LIMIT OF WORK	
	FIRE DEPARTMENT ACCESS - ROUTE IS TO BE A MIN 20' WIDE BY 14' VERTICAL CLEARANCE AND RATED 96,000LBS. VEHICLE BARRIER GATES SHALL BE PROVIDED WITH A KNOX BOX.	
E	EXISTING FIRE HYDRANT	
G1	42" TALL X 4' WIDE CHAINLINK SWING GATE - ACCESSIBLE	K D3.1
G2	6' TALL X 4' WIDE CHAINLINK SWING GATE - ACCESSIBLE	M D3.1
G3	8' TALL X 4' WIDE CHAINLINK SWING GATE WITH TRANSOM - ACCESSIBLE	L D3.1
G4	6' TALL X 8' WIDE CHAINLINK DOUBLE SWING GATE - ACCESSIBLE	O D3.1
G5	8' TALL X 10' WIDE DOUBLE MIXED LEAF CHAINLINK WITH TRANSOM	A D3.2
G6	6' TALL X 12' WIDE CHAINLINK DOUBLE SWING GATE	M D3.2
E1	EXISTING GATE - 8' TALL X 8' WIDE CHAINLINK SWING GATE	
E2	EXISTING GATE - 8' TALL X 12' WIDE CHAINLINK SWING GATE	
E4	EXISTING 20' WIDE GATE	

SAFE DISPERSAL AREA

PROPOSED SAFE DISPERSAL AREA

AREA	OCCUPANCY	CALCULATIONS (PER CBC 1004.2.1)
A BASEBALL AREA (INCLUDING DUGOUTS)	60	TOTAL OCCUPANCY LOAD = 60 PEOPLE REQUIRED SAFE DISPERSAL AREA: 60 X 5 SQ FT = 300 SQ FT.
B SOFTBALL AREA (INCLUDING DUGOUTS)	60	TOTAL OCCUPANCY LOAD = 60 PEOPLE REQUIRED SAFE DISPERSAL AREA: 60 X 5 SQ FT = 300 SQ FT.
C BASEBALL BLEACHERS	150	TOTAL OCCUPANCY LOAD = 150 PEOPLE REQUIRED SAFE DISPERSAL AREA: 150 X 5 SQ FT = 750 SQ FT.
D SOFTBALL BLEACHERS	150	TOTAL OCCUPANCY LOAD = 150 PEOPLE REQUIRED SAFE DISPERSAL AREA: 150 X 5 SQ FT = 750 SQ FT.

LOCAL FIRE AUTHORITY REVIEW

DSA **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:	Sacramento City Unified School District
Project Name/School:	Hiram Johnson HS Golf, Baseball and Softball Fields
Project Address:	6879 14th Ave. Sacramento, CA 95820

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 ☑		No ☐
2.	Was the fire hydrant water flow test performed as part of this LFA review?	Yes ☐		No ☑
3.	Is the project located within a designated fire hazard severity zone (FHSZ) as established by Cal-Fire? *(If yes, indicate FHSZ classification below.)*	Yes ☐		No ☑
	Refer to the following website for FHSZ locations: http://egis.fire.ca.gov/FHSZ/	Moderate ☐	High ☐	Very High ☐
	Wildland Interface Area (WIFA) *(If any designations are checked, project design must meet the requirements of CBC Chapter 7A.)*			WIFA ☐

DSA 810
FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

CONDITION MEANS AND METHODS RESOLUTION		ALTERNATE ACCEPTED			
		Yes	No	N/A	NR
4.	Emergency vehicle access roadways do not meet CFC requirements.			X	
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.			X	
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.	X			
6.	**Fire Hydrants:** Water flow and pressure are less than CFC minimum.			X	
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.				X
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: Chris Rolston Title: Director III, Facilities

Signature: Date: 6/28/22

LOCAL FIRE AUTHORITY (LFA) INFORMATION

LFA Agency Name:	Sacramento Fire Department		
LFA Review Official:	King Tunson		
Title:	Program Specialist	Work Phone:	(916) 808-1358
Work Email:	ktunson@sfd.cityofsacramento.org		

LFA Reviewer's Signature: King Tunson Date: 06/16/22

APPROVED
PENDING FIELD INSPECTION
City of Sacramento Plan Review
FIRE DEPARTMENT
CONSULTANT
By: Morten Myers on Jun 14, 2022

NORTH
0' 25' 50' 100' 150

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MARK S. BRANKER
No. 4069
EXPIRATION DATE: JULY 2023
STATE OF CALIFORNIA

CONSULTANT

KEYMAP

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FIRE LIFE SAFETY PLAN

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GOLF PRACTICE FACILITY, VARSITY BASEBALL AND SOFTBALL FIELDS

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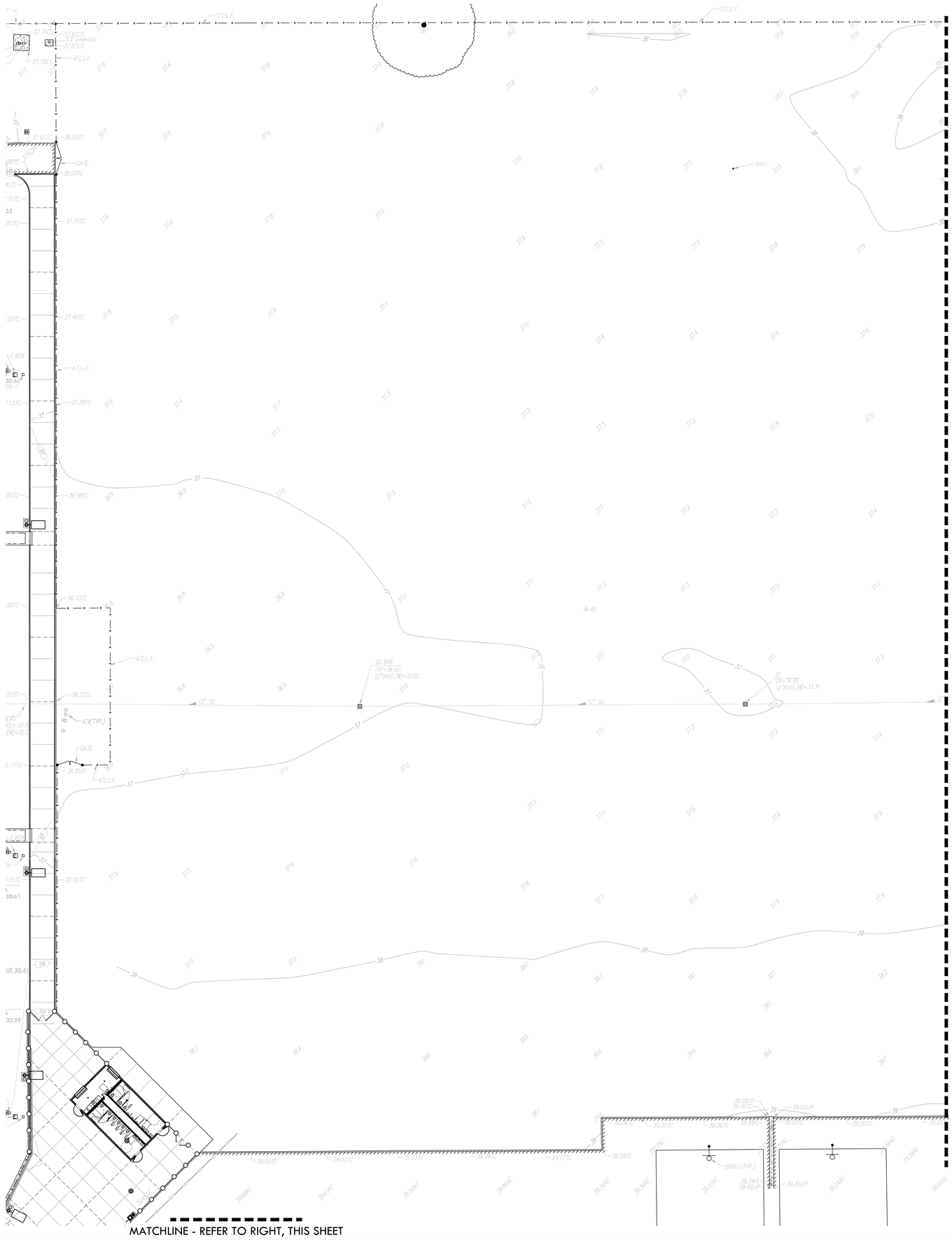
NO.	REVISIONS	DATE
1	ADDENDUM	09/16/22
2		
3		
4		
5		
6		

DRAWN BY: KL
CHECKED BY: MB/CS
DATE ISSUED: 09/16/2022
SCALE: 1" = 50'-0"
PROJ. NO.: 2203200
SHEET NO.: L0.2

DRAWING NAME: C:\Users\STATIO~1\AppData\Local\Temp\AcPublish_10432_ACC.dwg
PLOT DATE: 09-15-22 PLOTTED BY: station27



EXISTING CONDITIONS LEGEND

E	= ELECTRIC MANHOLE
	= UTILITY POLE (WITH GUY WIRE)
	= ELECTRIC METER
	= ELECTRIC BOX
	= STREET LIGHTING BOX
OR	= LIGHT STANDARD
	= SIGNAL LIGHT
	= FLOOD LIGHT
	= ELECTRICAL OUTLET
G	= GAS LINE (SIZE INDICATED)
G	= GAS LINE (record information)
G	= GAS LINE (UNDERGROUND LOCATING)
G	= GAS MANHOLE
	= GAS VALVE
	= GAS METER
t	= telephone line
t	= telephone line (record information)
t	= telephone line (UNDERGROUND LOCATING)
SD	= STORM DRAIN BOX
TS	= TRAFFIC SIGNAL BOX

AC	ASPHALTIC CONCRETE
ACC	ACCESSIBLE
ACU	AIR CONDITIONING UNIT
AD	AREA DRAIN
APN	ASSESSOR'S PARCEL NUMBER
ARV	AIR RELEASE VALVE
BBALL	BASKETBALL POLE
BCM	BRASS CAP MONUMENT
BFP	BACK FLOW PREVENTER
BL.	BLOCK
BLDG	BUILDING
BOL	BOLLARD
BOV	BLOW-OFF VALVE
BR.	BRICK
B.W.F.	BARBED WIRE FENCE
C	COMMUNICATION
CAB	CABINET
CATV	CABLE TELEVISION
CIP	CAPPED IRON PIPE
C.L.F.	CHAIN LINK FENCE
CMP	CORRUGATED METAL PIPE
CO	CLEANOUT
COL	COLUMN
CONC.	CONCRETE
COND.	CONDENSATE
CPF	CONTROL POINT FOUND
CPS	CONTROL POINT SET
CS	CONCRETE SURFACE
D	DEPTH
DF	DRINKING FOUNTAIN
DG	DECOMPOSED GRANITE
DI	DROP INLET
DIA	DIAMETER
DRWY	DRIVEWAY
DS	DOWNSPOUT
DWG	DRAWING
E	ELECTRIC
EP	EDGE OF PAVEMENT
ESMT	EASEMENT
FA	FIRE ALARM
FDC	FIRE DEPARTMENT CONNECTION
FFE	FINISHED FLOOR ELEVATION
FH	FIRE HYDRANT
FL	FLOWLINE
FO	FIBER OPTIC
FS	FIRE SERVICE
G	GAS
GB	GRADE BREAK
GR	GRATE
GRB	GROUND ROD BOX
GROD	GROUND ROD
GV	GAS VALVE
HB	HOSE BIBB
HBD	HEADER BOARD
HP	HIGH PRESSURE
HR	HANDRAIL
HVE	HIGH VOLTAGE ELECTRIC
HWF	HOG WIRE FENCE
IC	IN CONCRETE
ICP	IRRIGATION CONTROL PANEL
ICV	IRRIGATION CONTROL VALVE
INV	PIPE INVERT ELEVATION
IRR	IRRIGATION
JP	JOINT UTILITY POLE
JT	JOINT TRENCH
LNDG	LANDING
LVE	LOW VOLTAGE ELECTRIC
M	METAL
MH	MANHOLE
MS	MOW STRIP
MSC	METAL STORAGE CONTAINER
NTS	NOT TO SCALE
OH	OVERHEAD
OHANG	OVERHANG
OIP	OPEN IRON PIPE
OSPH	OLD STEEL POST HOLE
P/L	PROPERTY LINE
PA	PLANTER AREA
PB	PARKING BUMPER
PH	POSTHOLE
PIV	POST INDICATOR VALVE
PP	POWER POLE
PRKG	PARKING
PUE	PUBLIC UTILITY EASEMENT
PV	PAVERS
PVC	POLYVINYL CHLORIDE
R	RUBBER
RG	ROLLING GATE
RIM	MANHOLE RIM ELEVATION
ROW	RIGHT OF WAY
RW	RETAINING WALL
RWL	RAIN WATER LEADER
SD	STORM DRAIN
SDMH	STORM DRAIN MANHOLE
SIG	SIGNAL
SL	STREET LIGHT
SLB	STREET LIGHT BOX
SS	SANITARY SEWER
SSCO	SANITARY SEWER CLEANOUT
SSMH	SANITARY SEWER MANHOLE
STL.	STEEL
T	TELEPHONE
TBALL	TETHER BALL POLE
TBM	TEMPORARY BENCHMARK
TC	TOP OF CURB
TOW	TOP OF WALL
TP	TELEPHONE POLE
TRW	TOP OF RETAINING WALL
UG	UNDERGROUND
UNK	UNKNOWN
V	VENT
VBALL	VOLLEYBALL
W	WATER
W/	WITH
WD.	WOOD
WF	WOOD FENCE
W.I.F.	WROUGHT IRON FENCE
W.R.F.	WOOD RAIL FENCE
XF	TRANSFORMER
XWALK	CROSSWALK

EXISTING CONDITIONS NOTES

SURVEY PROVIDED BY: WARREN CONSULTING ENGINEERS, INC.

1. BENCHMARK NO. 318-82C, ELEV. 38.544: FOUND MAG NAIL WITH CITY WASHER IN SIDEWALK JOINT AT 6900 14TH AVE.
2. BASIS OF BEARINGS: ASSUMED BEARING OF REDDING AVENUE BEARING DUE NORTH-SOUTH. BEARING ESTABLISHED FROM FOUND CITY TIES FROM THE CENTERLINE INTERSECTION OF 14TH STREET AND REDDING AVE. TO CENTERLINE INTERSECTION OF MCQUILLAN CIRCLE AND REDDING AVE.
3. TEMPORARY BENCHMARKS:

NUMBER	DESCRIPTION	NORTHING	EASTING	ELEVATION
2	CPS CHISELED "+"	9336.11	10000.65	39.94
3	CPS CHISELED "+"	9435.04	10002.23	42.35
4	CPS CHISELED "+"	9524.76	10001.25	42.61
5	CPS CHISELED "+"	9578.32	10000.98	40.49
6	CPS CHISELED "+"	9705.47	10003.34	40.58
7	CPS CHISELED "+"	9748.46	10002.26	41.24
8	CPS CHISELED "+"	9842.24	10001.72	40.66
9	CPS CHISELED "+"	9937.31	9961.69	40.56
14	CPS CHISELED "+"	10075.05	10287.51	39.46
15	CPS CHISELED "+"	9998.30	10317.87	40.02
16	CPS CHISELED "+"	9990.41	10481.11	40.10
17	CPS CHISELED "+"	10026.79	10578.84	39.77
18	CPS CHISELED "+"	9896.74	9729.87	40.62
19	CPS CHISELED "+"	9787.41	9659.64	40.22
20	CPS CHISELED "+"	9850.07	9414.25	38.76
23	CPS CHISELED "+"	9813.19	10578.40	39.16
24	CPS CHISELED "+"	9797.65	10341.40	40.64
25	CPS CHISELED "+"	9472.42	9980.34	42.57
26	CPS CHISELED "+"	9492.34	9753.50	42.61
27	CPS CHISELED "+"	9521.07	9770.33	42.64
28	CPS CHISELED "+"	9703.12	9735.68	40.66
29	CPF CHISELED "+"	9274.75	10432.38	38.07
30	CPF CHISELED "+"	9234.00	10448.80	38.08
31	CPF BM EL=38.544	9230.28	10519.87	38.54
32	CPF CHISELED "+"	9234.84	10538.69	38.33
33	CPF CHISELED "+"	9235.16	10577.38	38.64
34	CPF CHISELED "+"	9276.43	10592.98	38.60
35	CPF HILTI NAIL+WASH	9275.23	10499.99	38.34
36	CPF CHISELED "+"	10249.13	10585.90	39.80
37	CPF CHISELED "+"	10247.58	10538.46	39.79
38	CPF CHISELED "+"	10207.10	10538.46	39.92
39	CPF CHISELED "+"	10010.56	10586.30	39.53
40	CPF CHISELED "+"	9964.86	10585.23	39.58
41	CPF CHISELED "+"	9774.07	10584.84	38.90
42	CPF CHISELED "+"	9275.52	10522.36	38.41
43	CPS CHISELED "+"	9447.60	10493.95	40.65
44	CPS CHISELED "+"	9441.81	10410.29	40.62
45	CPS PICKER	10306.22	9927.04	37.25
46	CPS CHISELED "+"	9937.79	9260.87	35.67
47	CPS CHISELED "+"	10574.82	9254.82	35.63
48	CPF CHISELED "+"	10484.29	10538.87	39.82
49	CPF CHISELED "+"	10445.04	10538.73	39.79
50	CPF CHISELED "+"	10441.20	10586.19	39.63
51	CPF PKNAIL@RED/MAITA	10463.85	10558.81	40.18
52	CPS CHISELED "+"	9902.99	9518.05	38.66

4. DATE OF FIELD REVIEW: 02/28/22
5. EXISTING UTILITIES BASED ON VISIBLE SURFACE STRUCTURES AND RECORD INFORMATION.

EXISTING CONDITIONS LEGEND

	= PROPERTY LINE
	= CENTERLINE
	= easement
	= PROPERTY CORNER FOUND AS NOTED
	= PROPERTY CORNER NOTHING FOUND OR SET
123	= TEMPORARY BENCHMARK (SEE TBM LIST FOR INFO)
	= SWALE OR DRAINAGE FLOW
	= DRAINAGE FLOW
	= FENCE (TYPE NOTED)
	= TREE (SIZE/TYPE INDICATED)
	= SLOPE
100	= CONTOUR
	= CONCRETE SURFACE
	= EDGE OF ASPHALT
	= EDGE OF BUILDING
	= SIGN
	= POST OR BOLLARD
99.9	= GROUND ELEVATION
99.99	= HARD SURFACE ELEVATION
12"SD	= storm drain line (size & direction of flow)
12"SD	= storm drain line (record information)
12"SD	= storm drain line (UNDERGROUND LOCATING)
SD	= storm drain manhole
	= storm drain cleanout
	= drop inlet
	= AREA DRAIN
RWL	= RAIN WATER LEADER
DS	= downspout
12"SS	= sanitary sewer line (size & direction of flow)
12"SS	= sanitary sewer line (record information)
12"SS	= sanitary sewer line (UNDERGROUND LOCATING)
SS	= sanitary sewer manhole
	= sanitary sewer cleanout
W	= water line (size indicated)
W	= water line (record information)
W	= water line (UNDERGROUND LOCATING)
W	= water manhole
	= water valve
	= water meter
	= water box
	= IRRIGATION CONTROL VALVE
	= FIRE HYDRANT
	= backflow preventer
	= SPRINKLER
	= hose bibb
OH—E	= OVERHEAD ELECTRIC LINE
E	= UNDERGROUND ELECTRIC LINE
E	= UNDERGROUND ELECTRIC LINE (record information)
E	= UNDERGROUND ELECTRIC LINE (UNDERGROUND LOCATING)

NORTH
0' 10' 20' 40' 60'

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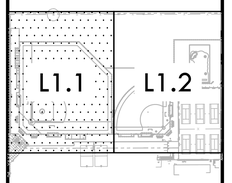
STAMP

REGISTERED LANDSCAPE ARCHITECT
MARK S. BRUNKER
No. 4069
EXPIRATION DATE: JULY 2023
STATE OF CALIFORNIA

CONSULTANT

WARREN CONSULTING ENGINEERS, INC.
1117 WINDFIELD WAY, SUITE 110
EL DORADO HILLS, CA 95672 (916)985-1870

KEYMAP



SHEET TITLE

EXISTING CONDITIONS PLAN - BASEBALL FIELD

PROJECT NAME

HIRAM JOHNSON HIGH SCHOOL GOLF PRACTICE FACILITY, VARSITY BASEBALL AND SOFTBALL FIELDS

PROJECT ADDRESS

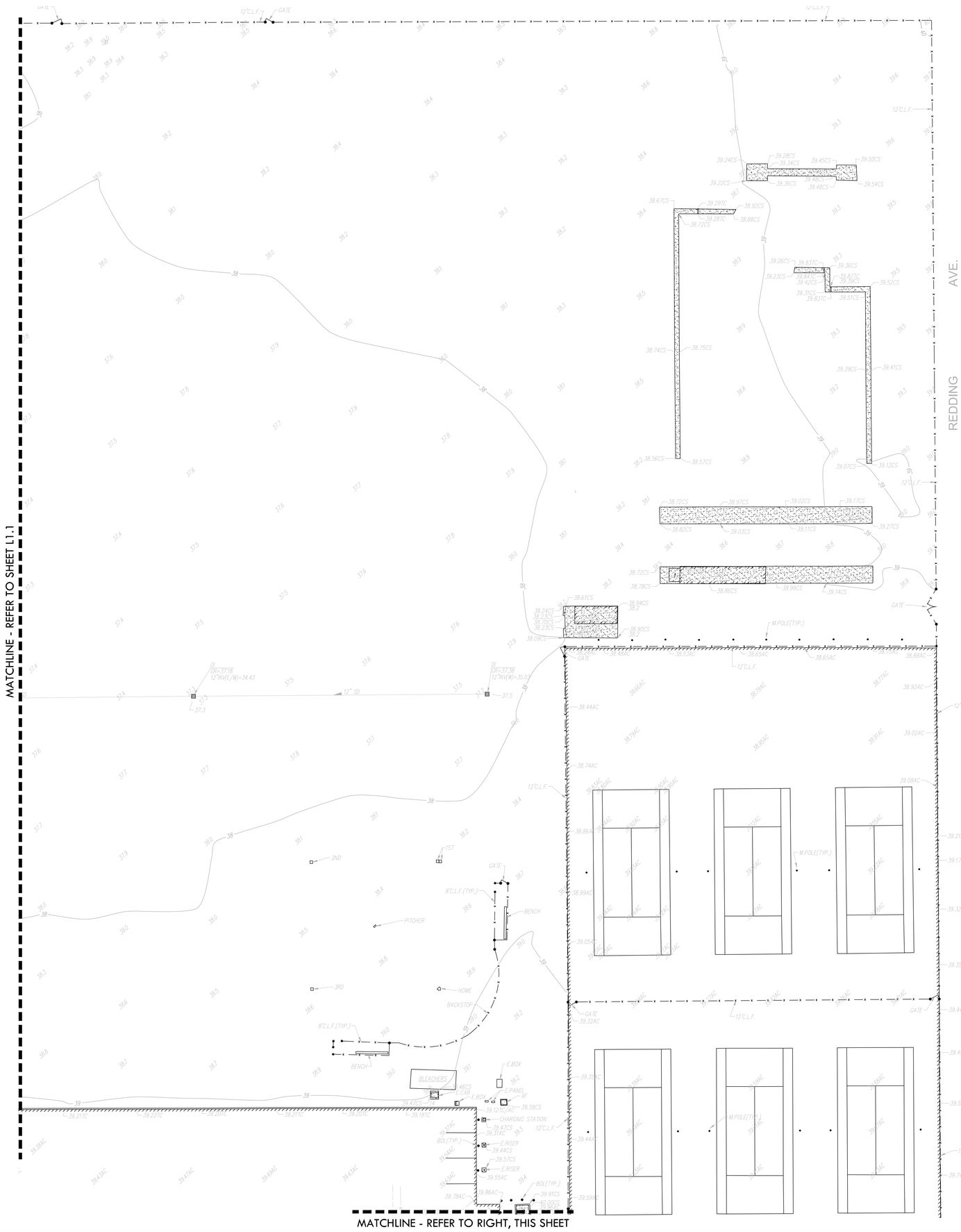
6879 14TH AVENUE
SACRAMENTO, CA 95820

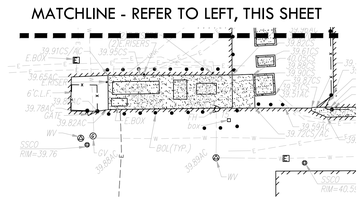
SUBMITTAL	DATE
DD 50% SUBMITTAL	04/15/22
100% DSA SUBMITTAL	05/27/22
DSA BACK CHECK	08/11/22
DSA ADDENDUM SUBMITTAL	09/16/22

NO.	REVISIONS	DATE
1	ADDENDUM	09/16/22

DRAWN BY	CHECKED BY MB/CS
DATE ISSUED 09/16/2022	SCALE 1" = 20'-0"
PROJ. NO. 2203200	
SHEET NO. L1.1	

DRAWING NAME: Y:\Projects-FO\2022\2203200 - Hiram Johnson Golf Baseball Softball\CAD_EXC.dwg
PLOT DATE: 09-15-22 PLOTTED BY: station27





EXISTING CONDITIONS LEGEND

- = ELECTRIC MANHOLE
- = UTILITY POLE (WITH GUY WIRE)
- = ELECTRIC METER
- = ELECTRIC BOX
- = STREET LIGHTING BOX
- OR = LIGHT STANDARD
- = SIGNAL LIGHT
- = FLOOD LIGHT
- = ELECTRICAL OUTLET
- G = GAS LINE (SIZE INDICATED)
- G = GAS LINE (record information)
- G = GAS LINE (UNDERGROUND LOCATING)
- = GAS MANHOLE
- = GAS VALVE
- = GAS METER
- t = telephone line
- t = telephone line (record information)
- t = telephone line (UNDERGROUND LOCATING)
- = STORM DRAIN BOX
- = TRAFFIC SIGNAL BOX

AC	ASPHALTIC CONCRETE
ACC	ACCESSIBLE
ACU	AIR CONDITIONING UNIT
AD	AREA DRAIN
APN	ASSESSOR'S PARCEL NUMBER
ARV	AIR RELEASE VALVE
BBALL	BASKETBALL POLE
BCM	BRASS CAP MONUMENT
BFP	BACK FLOW PREVENTER
BL.	BLOCK
BLDG	BUILDING
BOL	BOLLARD
BOV	BLOW-OFF VALVE
BR.	BRICK
B.W.F.	BARBED WIRE FENCE
C	COMMUNICATION
CAB	CABINET
CATV	CABLE TELEVISION
CIP	CAPPED IRON PIPE
C.L.F.	CHAIN LINK FENCE
CMP	CORRUGATED METAL PIPE
CO	CLEANOUT
COL	COLUMN
CONC.	CONCRETE
COND.	CONDENSATE
CPF	CONTROL POINT FOUND
CPS	CONTROL POINT SET
CS	CONCRETE SURFACE
D	DEPTH
DF	DRINKING FOUNTAIN
DG	DECOMPOSED GRANITE
DI	DROP INLET
DIA	DIAMETER
DRWY	DRIVEWAY
DS	DOWNSPOUT
DWG	DRAWING
E	ELECTRIC
EP	EDGE OF PAVEMENT
ESMT	EASEMENT
FA	FIRE ALARM
FDC	FIRE DEPARTMENT CONNECTION
FFE	FINISHED FLOOR ELEVATION
FH	FIRE HYDRANT
FL	FLOWLINE
FO	FIBER OPTIC
FS	FIRE SERVICE
G	GAS
GB	GRADE BREAK
GR	GRATE
GRB	GROUND ROD BOX
GROD	GROUND ROD
GV	GAS VALVE
HB	HOSE BIBB
HBD	HEADER BOARD
HP	HIGH PRESSURE
HR	HANDRAIL
HVE	HIGH VOLTAGE ELECTRIC
HWF	HOG WIRE FENCE
IC	IN CONCRETE
ICP	IRRIGATION CONTROL PANEL
ICV	IRRIGATION CONTROL VALVE
INV	PIPE INVERT ELEVATION
IRR	IRRIGATION
JP	JOINT UTILITY POLE
JT	JOINT TRENCH
LNDG	LANDING
LVE	LOW VOLTAGE ELECTRIC
M	METAL
MH	MANHOLE
MS	MOW STRIP
MSC	METAL STORAGE CONTAINER
NTS	NOT TO SCALE
OH	OVERHEAD
OHANG	OVERHANG
OIP	OPEN IRON PIPE
OSPH	OLD STEEL POST HOLE
P/L	PROPERTY LINE
PA	PLANTER AREA
PB	PARKING BUMPER
PH	POSTHOLE
PIV	POST INDICATOR VALVE
PP	POWER POLE
PRKG	PARKING
PUE	PUBLIC UTILITY EASEMENT
PV	PAVERS
PVC	POLYVINYL CHLORIDE
R	RUBBER
RG	ROLLING GATE
RIM	MANHOLE RIM ELEVATION
ROW	RIGHT OF WAY
RW	RETAINING WALL
RWL	RAIN WATER LEADER
SD	STORM DRAIN
SDMH	STORM DRAIN MANHOLE
SIG	SIGNAL
SL	STREET LIGHT
SLB	STREET LIGHT BOX
SS	SANITARY SEWER
SSCO	SANITARY SEWER CLEANOUT
SSMH	SANITARY SEWER MANHOLE
STL.	STEEL
T	TELEPHONE
TBALL	TETHER BALL POLE
TBM	TEMPORARY BENCHMARK
TC	TOP OF CURB
TOW	TOP OF WALL
TP	TELEPHONE POLE
TRW	TOP OF RETAINING WALL
UG	UNDERGROUND
UNK	UNKNOWN
V	VENT
VBALL	VOLLEYBALL
W	WATER
W/	WITH
WD	WOOD
WF	WOOD FENCE
W.I.F.	WROUGHT IRON FENCE
W.R.F.	WOOD RAIL FENCE
XF	TRANSFORMER
XWALK	CROSSWALK

EXISTING CONDITIONS NOTES

SURVEY PROVIDED BY: WARREN CONSULTING ENGINEERS, INC.

1. BENCHMARK NO. 318-82C, ELEV. 38.544: FOUND MAG NAIL WITH CITY WASHER IN SIDEWALK JOINT AT 6900 14TH AVE.
2. BASIS OF BEARINGS: ASSUMED BEARING OF REDDING AVENUE BEARING DUE NORTH-SOUTH. BEARING ESTABLISHED FROM FOUND CITY TIES FROM THE CENTERLINE INTERSECTION OF 14TH STREET AND REDDING AVE. TO CENTERLINE INTERSECTION OF MCQUILLAN CIRCLE AND REDDING AVE.
3. TEMPORARY BENCHMARKS:

NUMBER	DESCRIPTION	NORTHING	EASTING	ELEVATION
2	CPS CHISELED "+"	9336.11	10000.65	39.94
3	CPS CHISELED "+"	9435.04	10002.23	42.35
4	CPS CHISELED "+"	9524.76	10001.25	42.61
5	CPS CHISELED "+"	9578.32	10000.98	40.49
6	CPS CHISELED "+"	9705.47	10003.34	40.58
7	CPS CHISELED "+"	9748.46	10002.26	41.24
8	CPS CHISELED "+"	9842.24	10001.72	40.66
9	CPS CHISELED "+"	9937.31	9961.69	40.56
14	CPS CHISELED "+"	10075.05	10287.51	39.46
15	CPS CHISELED "+"	9998.30	10317.87	40.02
16	CPS CHISELED "+"	9990.41	10481.11	40.10
17	CPS CHISELED "+"	10026.79	10578.84	39.77
18	CPS CHISELED "+"	9896.74	9729.87	40.62
19	CPS CHISELED "+"	9787.41	9659.64	40.22
20	CPS CHISELED "+"	9850.07	9414.25	38.76
23	CPS CHISELED "+"	9813.19	10578.40	39.16
24	CPS CHISELED "+"	9797.65	10341.40	40.64
25	CPS CHISELED "+"	9472.42	9980.34	42.57
26	CPS CHISELED "+"	9492.34	9753.50	42.61
27	CPS CHISELED "+"	9521.07	9770.33	42.64
28	CPS CHISELED "+"	9703.12	9735.68	40.66
29	CPF CHISELED "+"	9274.75	10432.38	38.07
30	CPF CHISELED "+"	9234.00	10448.80	38.08
31	CPF BM EL=38.544	9230.28	10519.87	38.54
32	CPF CHISELED "+"	9234.84	10538.69	38.33
33	CPF CHISELED "+"	9235.16	10577.38	38.64
34	CPF CHISELED "+"	9276.43	10592.98	38.60
35	CPF HILTI NAIL+WASH	9275.23	10499.99	38.34
36	CPF CHISELED "+"	10249.13	10585.90	39.80
37	CPF CHISELED "+"	10247.58	10538.46	39.79
38	CPF CHISELED "+"	10207.10	10538.46	39.92
39	CPF CHISELED "+"	10010.56	10586.30	39.53
40	CPF CHISELED "+"	9964.86	10585.23	39.58
41	CPF CHISELED "+"	9774.07	10584.84	38.90
42	CPF CHISELED "+"	9275.52	10522.36	38.41
43	CPS CHISELED "+"	9447.60	10495.95	40.65
44	CPS CHISELED "+"	9441.81	10410.29	40.62
45	CPS PICKER	10306.22	9927.04	37.25
46	CPS CHISELED "+"	9937.79	9260.87	35.67
47	CPS CHISELED "+"	10574.82	9254.82	35.63
48	CPF CHISELED "+"	10484.29	10538.87	39.82
49	CPF CHISELED "+"	10445.04	10538.73	39.79
50	CPF CHISELED "+"	10441.20	10586.19	39.63
51	CPF PKNAIL@RED/MAITA	10463.85	10558.81	40.18
52	CPS CHISELED "+"	9902.99	9518.05	38.66

4. DATE OF FIELD REVIEW: 02/28/22
5. EXISTING UTILITIES BASED ON VISIBLE SURFACE STRUCTURES AND RECORD INFORMATION.

EXISTING CONDITIONS LEGEND

- = PROPERTY LINE
- = CENTERLINE
- = easement
- = PROPERTY CORNER FOUND AS NOTED
- = PROPERTY CORNER NOTHING FOUND OR SET
- 123 = TEMPORARY BENCHMARK (SEE TBM LIST FOR INFO)
- = SWALE OR DRAINAGE FLOW
- = DRAINAGE FLOW
- = FENCE (TYPE NOTED)
- = TREE (SIZE/TYPE INDICATED)
- = SLOPE
- 100 = CONTOUR
- = CONCRETE SURFACE
- = EDGE OF ASPHALT
- = EDGE OF BUILDING
- = SIGN
- = POST OR BOLLARD
- 99.9 = GROUND ELEVATION
- 99.99 = HARD SURFACE ELEVATION
- 12"SD = storm drain line (size & direction of flow)
- 12"SD = storm drain line (record information)
- 12"SD = storm drain line (UNDERGROUND LOCATING)
- SD = storm drain manhole
- = storm drain cleanout
- = drop inlet
- = AREA DRAIN
- RWL = RAIN WATER LEADER
- DS = downspout
- 12"SS = sanitary sewer line (size & direction of flow)
- 12"SS = sanitary sewer line (record information)
- 12"SS = sanitary sewer line (UNDERGROUND LOCATING)
- SS = sanitary sewer manhole
- = sanitary sewer cleanout
- W = water line (size indicated)
- W = water line (record information)
- W = water line (UNDERGROUND LOCATING)
- W = water manhole
- = water valve
- = water meter
- = water box
- = IRRIGATION CONTROL VALVE
- = FIRE HYDRANT
- = backflow preventer
- = SPRINKLER
- = hose bibb
- OH—E = OVERHEAD ELECTRIC LINE
- E = UNDERGROUND ELECTRIC LINE
- E = UNDERGROUND ELECTRIC LINE (record information)
- E = UNDERGROUND ELECTRIC LINE (UNDERGROUND LOCATING)

NORTH

0' 10' 20' 40' 60'

VERDE DESIGN
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CIVIL ENGINEERING
SPORT PLANNING & DESIGN
1843 Iron Point Rd. Suite 140
Folsom, CA 95630
tel: 916.415.6554
fax: 916.415.6525
www.VerdeDesigninc.com

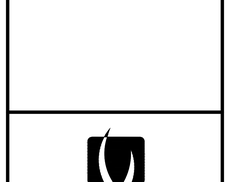
STAMP

REGISTERED LANDSCAPE ARCHITECT
MARK S. BRANNER
No. 4069
EXPIRATION DATE: JULY 2023
STATE OF CALIFORNIA

CONSULTANT

WARREN CONSULTING ENGINEERS, INC.
1117 WINDFIELD WAY, SUITE 110
EL DORADO HILLS, CA 95672 (916)985-1870

KEYMAP



SHEET TITLE

EXISTING CONDITIONS PLAN - SOFTBALL FIELD AND GOLF

PROJECT NAME

HIRAM JOHNSON HIGH SCHOOL
GOLF PRACTICE FACILITY, VARSITY BASEBALL AND SOFTBALL FIELDS

PROJECT ADDRESS

6879 14TH AVENUE
SACRAMENTO, CA 95820

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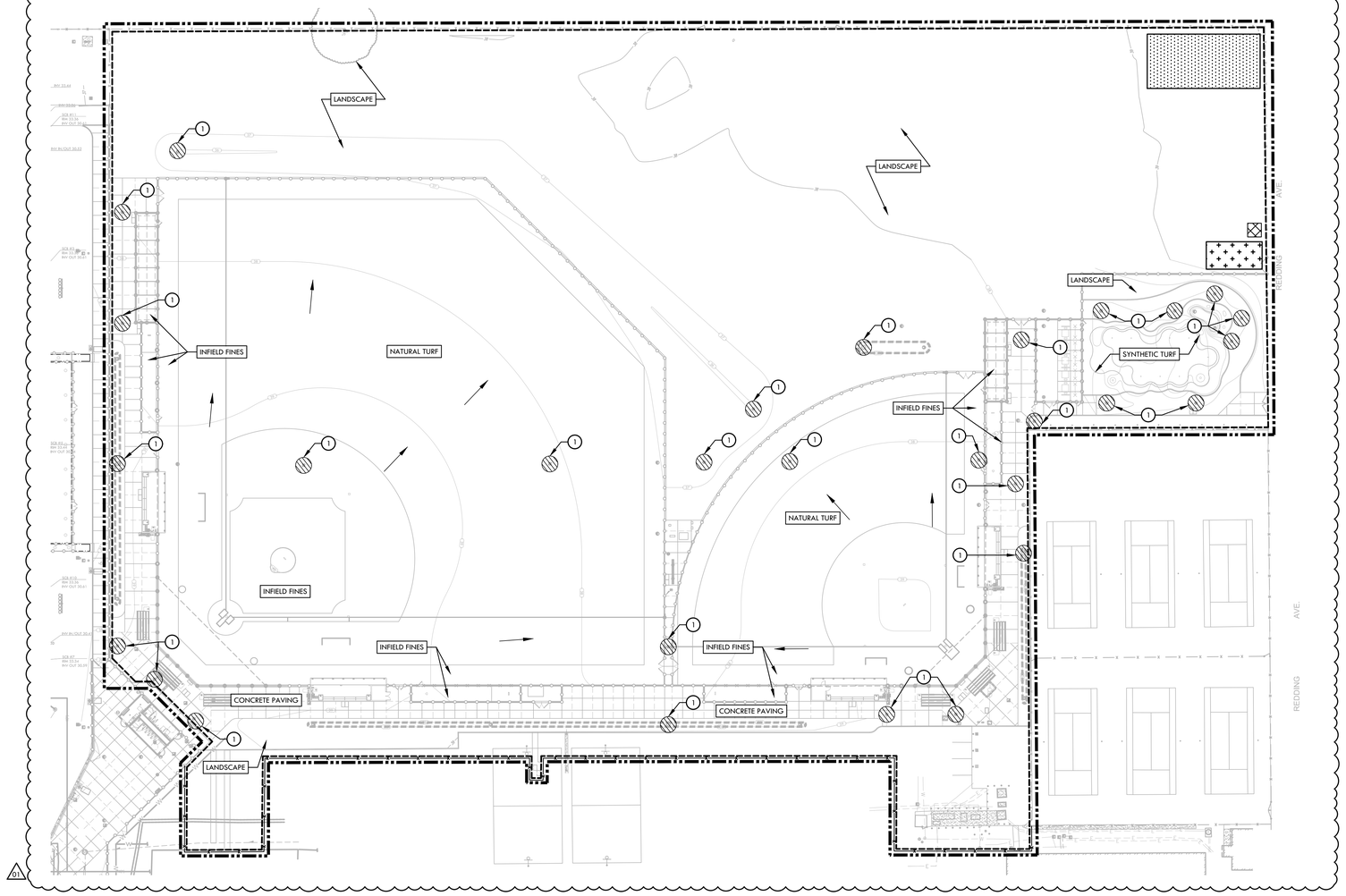
PLOT DATE: 09-15-22 PLOTTED BY: station27



EROSION AND SEDIMENT CONTROL NOTES

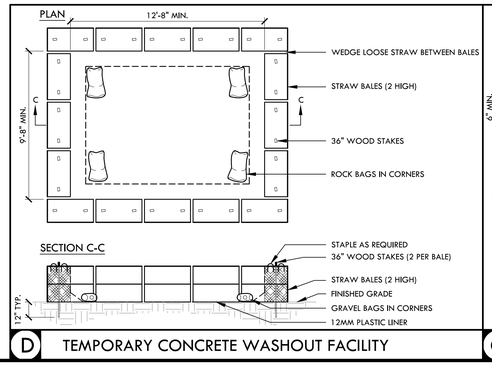
1. THIS EROSION AND SEDIMENT CONTROL PLAN MAY NOT COVER ALL SITUATIONS THAT ARISE DURING CONSTRUCTION DUE TO UNANTICIPATED SITE CONDITIONS. CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES (BMPs) AND SHALL COMPLY WITH THE STATE REGULATIONS TO CONTROL THE DISCHARGE OF STORMWATER POLLUTANTS.
2. EROSION AND SEDIMENT CONTROL SHALL BE CONSTRUCTED DURING FIRST WEEK OF CONSTRUCTION.
3. EROSION AND SEDIMENT CONTROL SHALL REMAIN THROUGHOUT CONSTRUCTION AND BE REMOVED AND DISPOSED OF DURING MAINTENANCE PERIOD.
4. EROSION AND SEDIMENT CONTROL MAY BE ADJUSTED THROUGH CONSTRUCTION WITH APPROVAL OR AS DIRECTED BY DISTRICT'S REPRESENTATIVE.
5. CONTRACTOR SHALL SWEEP STREETS AND PARKING AREAS AFFECTED BY CONSTRUCTION WITH STREET SWEEPER AS REQUIRED TO KEEP PAVING CLEAN OF CONSTRUCTION DEBRIS.
6. CONTRACTOR IS RESPONSIBLE FOR REPAIRING CONSTRUCTION ENTRY AND STAGING AREAS TO AS WAS OR BETTER CONDITIONS.
7. REFER TO STORMWATER POLLUTION PREVENTION PLAN SPECIFICATION SECTION FOR ADDITIONAL INFORMATION AND CONTRACTOR REQUIREMENTS.

EROSION AND SEDIMENT CONTROL LEGEND

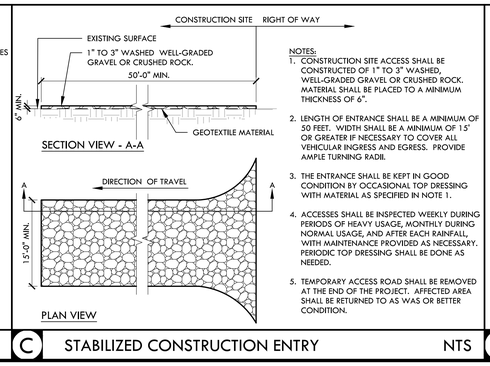
SYM.	DESCRIPTION	DTL REF
	STORM DRAIN INLET FILTER FOR EXISTING AND PROPOSED STORM DRAINS (FILTER FABRIC TO BE SECURELY ATTACHED TO DRAINAGE STRUCTURE TOP AND PERIMETER WADDLE)	B L2.1
	LIMIT OF WORK	
	TEMPORARY CONSTRUCTION FENCE	
	SEDIMENT RETENTION FIBER ROLL	A L2.1
	TEMPORARY CONCRETE WASHOUT FACILITY - PROVIDE A WASHOUT BIN FOR CONSTRUCTION WASHOUT AND REMOVE AT END OF CONSTRUCTION.	D L2.1
	CONSTRUCTION STAGING AREA	
	STABILIZED CONSTRUCTION ENTRY	C L2.1
	DIRECTION OF SURFACE FLOW	

NORTH

0' 20' 40' 80' 120'

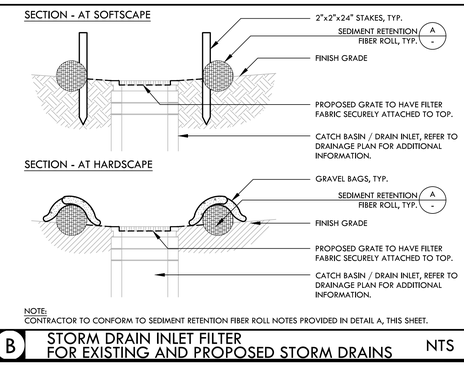


D TEMPORARY CONCRETE WASHOUT FACILITY



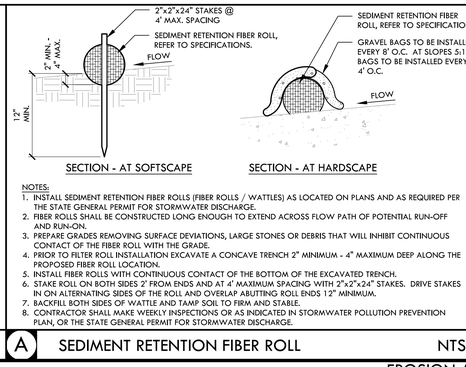
NOTES:
1. CONSTRUCTION SITE ACCESS SHALL BE CONSTRUCTED OF 1" TO 3" WASHED, WELL-GRADED GRAVEL OR CRUSHED ROCK. MATERIAL SHALL BE PLACED TO A MINIMUM THICKNESS OF 6".
2. LENGTH OF ENTRANCE SHALL BE A MINIMUM OF 50 FEET. WIDTH SHALL BE A MINIMUM OF 15' OR GREATER IF NECESSARY TO COVER ALL VEHICULAR INGRESS AND EGRESS. PROVIDE AMPLE TURNING RADII.
3. THE ENTRANCE SHALL BE KEPT IN GOOD CONDITION BY OCCASIONAL TOP DRESSING WITH MATERIAL AS SPECIFIED IN NOTE 1.
4. ACCESSES SHALL BE INSPECTED WEEKLY DURING PERIODS OF HEAVY USAGE, MONTHLY DURING NORMAL USAGE, AND AFTER EACH RAINFALL, WITH MAINTENANCE PROVIDED AS NECESSARY. PERIODIC TOP DRESSING SHALL BE DONE AS NEEDED.
5. TEMPORARY ACCESS ROAD SHALL BE REMOVED AT THE END OF THE PROJECT. AFFECTED AREA SHALL BE RETURNED TO AS WAS OR BETTER CONDITION.

C STABILIZED CONSTRUCTION ENTRY NTS



NOTE:
CONTRACTOR TO CONFORM TO SEDIMENT RETENTION FIBER ROLL NOTES PROVIDED IN DETAIL A, THIS SHEET.

B STORM DRAIN INLET FILTER FOR EXISTING AND PROPOSED STORM DRAINS NTS



NOTES:
1. INSTALL SEDIMENT RETENTION FIBER ROLLS (FIBER ROLLS / WATTLES) AS LOCATED ON PLANS AND AS REQUIRED PER THE STATE GENERAL PERMIT FOR STORMWATER DISCHARGE.
2. FIBER ROLLS SHALL BE CONSTRUCTED LONG ENOUGH TO EXTEND ACROSS FLOW PATH OF POTENTIAL RUN-OFF AND RUN-ON.
3. PREPARE GRADES REMOVING SURFACE DEVIATIONS, LARGE STONES OR DEBRIS THAT WILL INHIBIT CONTINUOUS CONTACT OF THE FIBER ROLL WITH THE GRADE.
4. PRIOR TO FILTER ROLL INSTALLATION EXCAVATE A CONCAVE TRENCH 2" MINIMUM - 4" MAXIMUM DEEP ALONG THE PROPOSED FIBER ROLL LOCATION.
5. INSTALL FIBER ROLLS WITH CONTINUOUS CONTACT OF THE BOTTOM OF THE EXCAVATED TRENCH.
6. STAKE ROLL ON BOTH SIDES 2' FROM ENDS AND AT 4' MAXIMUM SPACING WITH 2"x2"x24" STAKES. DRIVE STAKES IN ON ALTERNATING SIDES OF THE ROLL AND OVERLAP ABUTTING ROLL ENDS 12" MINIMUM.
7. BACKFILL BOTH SIDES OF WATTLE AND TAMP SOIL TO FIRM AND STABLE.
8. CONTRACTOR SHALL MAKE WEEKLY INSPECTIONS OR AS INDICATED IN STORMWATER POLLUTION PREVENTION PLAN, OR THE STATE GENERAL PERMIT FOR STORMWATER DISCHARGE.

A SEDIMENT RETENTION FIBER ROLL NTS

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
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tel: 916.415.6554
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www.VerdeDesigninc.com

STAMP

REGISTERED LANDSCAPE ARCHITECT
MARK S. BRAUNER
No. 4069
EXPIRATION DATE: JULY 2023
STATE OF CALIFORNIA

CONSULTANT

KEYMAP

SHEET TITLE
EROSION AND SEDIMENT CONTROL PLAN

PROJECT NAME
HIRAM JOHNSON HIGH SCHOOL GOLF PRACTICE FACILITY, VARSITY BASEBALL AND SOFTBALL FIELDS

PROJECT ADDRESS
6879 14TH AVENUE
SACRAMENTO, CA 95820

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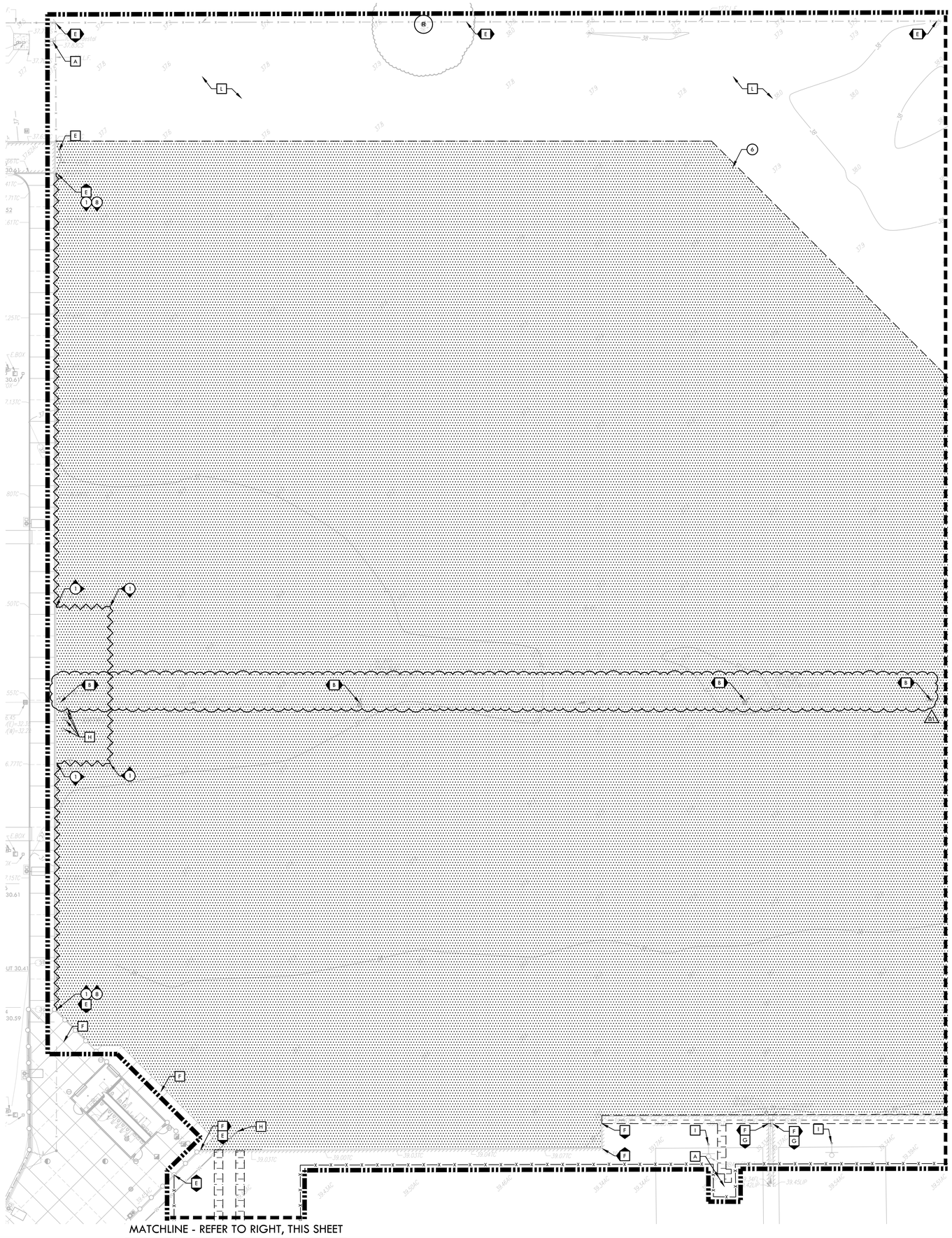
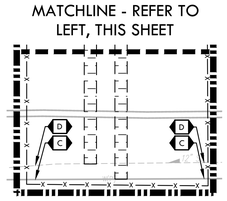
JC	MB/CS
DATE ISSUED: 09/16/2022	SCALE: 1" = 40'-0"
PROJ. NO.: 2203200	
SHEET NO.: L2.1	

EROSION AND SEDIMENT CONTROL PLAN

DRAWING NAME: Y:\Projects-FO\2022\2203200 - Hiram Johnson Golf Baseball Softball\CAD_SWP.dwg
PLOT DATE: 09-15-22 PLOTTED BY: station27





DEMOLITION NOTES

1. THE CONTRACTOR SHALL PERFORM ALL CLEARING, DEMOLITION, REMOVAL OF OBSTRUCTIONS AND SITE PREPARATIONS NECESSARY FOR THE PROPER EXECUTION OF ALL WORK CONTAINED IN THE CONTRACT DOCUMENTS.
2. CONTRACTOR SHALL VERIFY LOCATION OF ALL EXISTING UTILITIES AND PROVIDE THE REQUIRED COORDINATION FOR THEIR TEMPORARY DISCONNECTION, PROTECTION, REMOVAL AND/OR STORAGE AS MAY BE REQUIRED DURING CONSTRUCTION. CONTRACTOR SHALL COORDINATE WITH THE DISTRICT TO DETERMINE WHETHER TEMPORARY SERVICES ARE NECESSARY.
3. THE CONTRACTOR SHALL VISIT THE SITE TO DETERMINE THE EXACT EXTENT AND DEPTH OF SITE DEMOLITION REQUIRED AND VERIFY COMPLIANCE WITH DRAWINGS. THE DISTRICT SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES.
4. 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'S 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. NOTIFY THE DISTRICT'S REPRESENTATIVE IMMEDIATELY SHOULD CONFLICTS ARISE AND REDIRECT WORK TO AVOID DELAY.
5. ALL EXISTING ITEMS ARE TO REMAIN UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING OR REPLACING, AT CONTRACTOR'S EXPENSE, ANY EXISTING ITEM DAMAGED OR DESTROYED BY CONSTRUCTION OPERATIONS. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR REPAIRING OR REPLACING ANY AND ALL DAMAGES TO ADJACENT PROPERTIES. THE DAMAGED ITEMS SHALL BE RESTORED TO AN "AS-WAS" OR BETTER CONDITION OR REPLACED PER THE DISCRETION OF THE DISTRICT'S REPRESENTATIVE.
6. PRIOR TO ANY DEMOLITION WORK, CONTRACTOR SHALL INSTALL SELF-SUPPORTING INTERLOCKING CHAIN-LINK TEMPORARY CONSTRUCTION FENCING TO ENCLOSE AND SECURE THE PROJECT AREA LIMIT OF WORK. THE FENCING SHALL CONTAIN PEDESTRIAN AND/OR VEHICULAR ACCESS GATES AS NECESSARY AND SHALL BE MINIMUM 6 FEET HIGH WITH A TOP AND BOTTOM RAIL WITH KNUCKLED TOP AND BOTTOM SELVAGE (NO BARBED WIRE PERMITTED). SHALL INCLUDE FULL HEIGHT GREEN SHADE CLOTH COVERING. THE CONSTRUCTION FENCING WORK SHALL BE SUBJECT TO THE DISCRETION OF THE DISTRICT'S REPRESENTATIVE.
7. PRIOR TO ANY DEMOLITION WORK, CONTRACTOR SHALL PROTECT ALL EXISTING PLANT MATERIAL NOT SCHEDULED FOR REMOVAL BY INSTALLING TEMPORARY 4 FOOT HIGH "BLAZE ORANGE" CONSTRUCTION SAFETY FENCING AT THE DRIPLINE OR PERIMETER. THE FENCING SHALL BE SECURED WITH DRIVEN METAL STAKES. ALL TREE PROTECTION WORK SHALL BE SUBJECT TO THE DISCRETION OF THE DISTRICT'S REPRESENTATIVE.
8. REFER TO SPECIFICATIONS FOR ADDITIONAL CLEARING, GRUBBING, TOPSOIL STOCKPILING AND OTHER PERTINENT INFORMATION.
9. CONTRACTOR TO FLUSH AND PERFORM A VIDEO INSPECTION OF ALL INSTALLED STORM WATER AND SANITARY SEWER PIPING WITHIN AREA OF WORK PRIOR TO START OF CONSTRUCTION AND AFTER COMPLETION. PROVIDE FLASH DRIVE TO DISTRICT FOR EACH SESSION.
10. SITE MAY CONTAIN UNDOCUMENTED STRUCTURES. CONTRACTOR SHALL NOTIFY DISTRICT REPRESENTATIVE UPON DISCOVERY PRIOR TO CONTINUING WORK.
11. CONTRACTOR IS RESPONSIBLE FOR THE CONTINUED IRRIGATION OF THE EXISTING VEGETATION TO REMAIN FOR THE DURATION OF CONSTRUCTION.

DEMOLITION LEGEND

SYM	DESCRIPTION
	LIMIT OF WORK
(#)	KEY LEGEND CALLOUT - ITEMS TO BE DEMOLISHED AND REMOVED
[#]	KEY LEGEND CALLOUT - ITEMS TO REMAIN AND BE PROTECTED
	EXISTING SURFACE VEGETATION TO BE REMOVED PER SPECIFICATIONS. REMOVE EXCESS SOIL FROM SITE AND DISPOSE IN LEGAL MANNER. REFER TO EARTHWORK SPECIFICATIONS FOR INFORMATION.
	DEMOLISH AND REMOVE EXISTING HARDSCAPE PAVING INCLUDING BASE MATERIAL AND DISPOSE IN LEGAL MANNER.
	TEMPORARY CONSTRUCTION FENCING
	LIMIT OF CLEAR AND GRUB
	DEMOLISH AND REMOVE EXISTING UTILITY LINE, AND/OR FENCE, INCLUDING POSTS, FABRIC, CURBS, EDGEBANDS AND FOOTINGS
(R)	EXISTING TREE TO REMAIN AND BE PROTECTED, REFER TO SPECIFICATIONS

ITEMS TO BE PROTECTED

- [A] ELECTRICAL BOX, SERVICE CONDUIT AND LINES TO REMAIN AND BE PROTECTED. REFER TO ELECTRICAL PLANS FOR ADDITIONAL INFORMATION. BOXES LOCATED IN PAVEMENT SHALL BE ADJUSTED TO BE FLUSH WITH ADJACENT GRADES, REFER TO GRADING PLAN FOR ADDITIONAL INFORMATION. CONTRACTOR TO FIELD VERIFY AND CONFORM LID TYPES WITH DISTRICT'S REPRESENTATIVE.
- [B] DRAINAGE STRUCTURE AND/OR DRAIN LINE TO REMAIN AND BE PROTECTED. REFER TO GRADING AND UTILITY PLAN FOR ADDITIONAL INFORMATION. REFER TO DRAINAGE PLAN FOR ADDITIONAL INFORMATION.
- [C] WATER STRUCTURE AND/OR LINE TO REMAIN AND BE PROTECTED. REFER TO UTILITY PLAN FOR ADDITIONAL INFORMATION.
- [D] SANITARY SEWER LINE AND/OR STRUCTURES TO REMAIN AND BE PROTECTED. REFER TO GRADING AND UTILITY PLAN FOR ADDITIONAL INFORMATION.
- [E] FENCING AND/OR GATE, INCLUDING POSTS, FABRIC, AND EDGEBANDS/CURB TO REMAIN AND BE PROTECTED.
- [F] HARDSCAPE PAVING TO REMAIN AND BE PROTECTED.
- [G] CONCRETE V-SWALE TO REMAIN AND BE PROTECTED.
- [H] IRRIGATION LINE/VALVE/QUICK COUPOLER/BOX/EQUIPMENT. REFER TO IRRIGATION DEMOLITION AND IRRIGATION PLANS FOR ADDITIONAL INFORMATION.
- [I] BASKETBALL BACKBOARD AND POLES TO REMAIN AND BE PROTECTED.
- [J] STORAGE CONTAINERS TO BE RELOCATED PER THE DIRECTION OF THE DISTRICT.
- [K] BOLLARD TO REMAIN AND BE PROTECTED.
- [L] LANDSCAPE AREA TO REMAIN AND BE PROTECTED. CONTRACTOR SHALL BE RESPONSIBLE TO REPAIR ANY DAMAGED AREAS TO AS-WAS OR BETTER CONDITION AT NO ADDITIONAL COST TO THE DISTRICT.

ITEMS TO BE DEMOLISHED

- (1) FENCING AND/OR GATE, INCLUDING POSTS, FABRIC, AND EDGEBANDS/CURB, INCLUDING FOOTINGS, TO BE DEMOLISHED AND REMOVED IN A LEGAL MANNER.
- (2) EXISTING IRRIGATION. REFER TO IRRIGATION DEMOLITION AND IRRIGATION PLANS FOR ADDITIONAL INFORMATION.
- (3) BLEACHERS INCLUDING FOOTINGS AND PAD TO BE DEMOLISHED AND REMOVED IN A LEGAL MANNER.
- (4) EXISTING BASEBALL AND SOFTBALL BASES/HOME PLATES TO BE REMOVED AND TURNED OVER TO THE DISTRICT.
- (5) EXISTING BENCH TO BE REMOVED AND TURNED OVER TO THE DISTRICT.
- (6) EXISTING BASEBALL AND/OR SOFTBALL FOUL POLE/EQUIPMENT, INCLUDING FOOTINGS, TO BE DEMOLISHED AND REMOVED IN A LEGAL MANNER.
- (7) DRAIN STRUCTURE AND OR LINE TO BE DEMOLISHED AND REMOVED. ALL DRAIN LINES TO BE ABANDONED IF NOT OBSTRUCTING FUTURE IMPROVEMENTS. ALL LINES OBSTRUCTING FUTURE IMPROVEMENTS TO BE DEMOLISHED AND REMOVED. LINES NOT DEMOLISHED THAT ARE 2" AND LARGER TO BE SLURRY FILLED.
- (8) EXISTING HARDSCAPE TO BE DEMOLISHED AND REMOVED IN A LEGAL MANNER.

NORTH

0' 10' 20' 40' 80'

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
1843 Iron Point Rd. Suite 140
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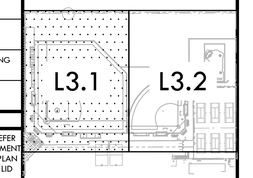
tel: 916.415.6554
fax: 916.415.6525
www.VerdeDesigninc.com

STAMP

REGISTERED LANDSCAPE ARCHITECT
MARK S. BRUNKOW
No. 4069
EXPIRATION DATE: JULY 2023
STATE OF CALIFORNIA

CONSULTANT

KEYMAP



SHEET TITLE

DEMOLITION PLAN - BASEBALL FIELD

PROJECT NAME

HIRAM JOHNSON HIGH SCHOOL GOLF PRACTICE FACILITY, VARSITY BASEBALL AND SOFTBALL FIELDS

PROJECT ADDRESS

6879 14TH AVENUE SACRAMENTO, CA 95820

SUBMITTAL	DATE
DD 50% SUBMITTAL	04/15/22
100% DSA SUBMITTAL	05/27/22
DSA BACK CHECK	08/11/22
DSA ADDENDUM SUBMITTAL	09/16/22

NO.	REVISIONS	DATE
1	ADDENDUM	09/16/22

DRAWN BY	CHECKED BY
JC	MB/CS
DATE ISSUED 09/16/2022	SCALE
PROJ. NO. 2203200	
SHEET NO. L3.1	

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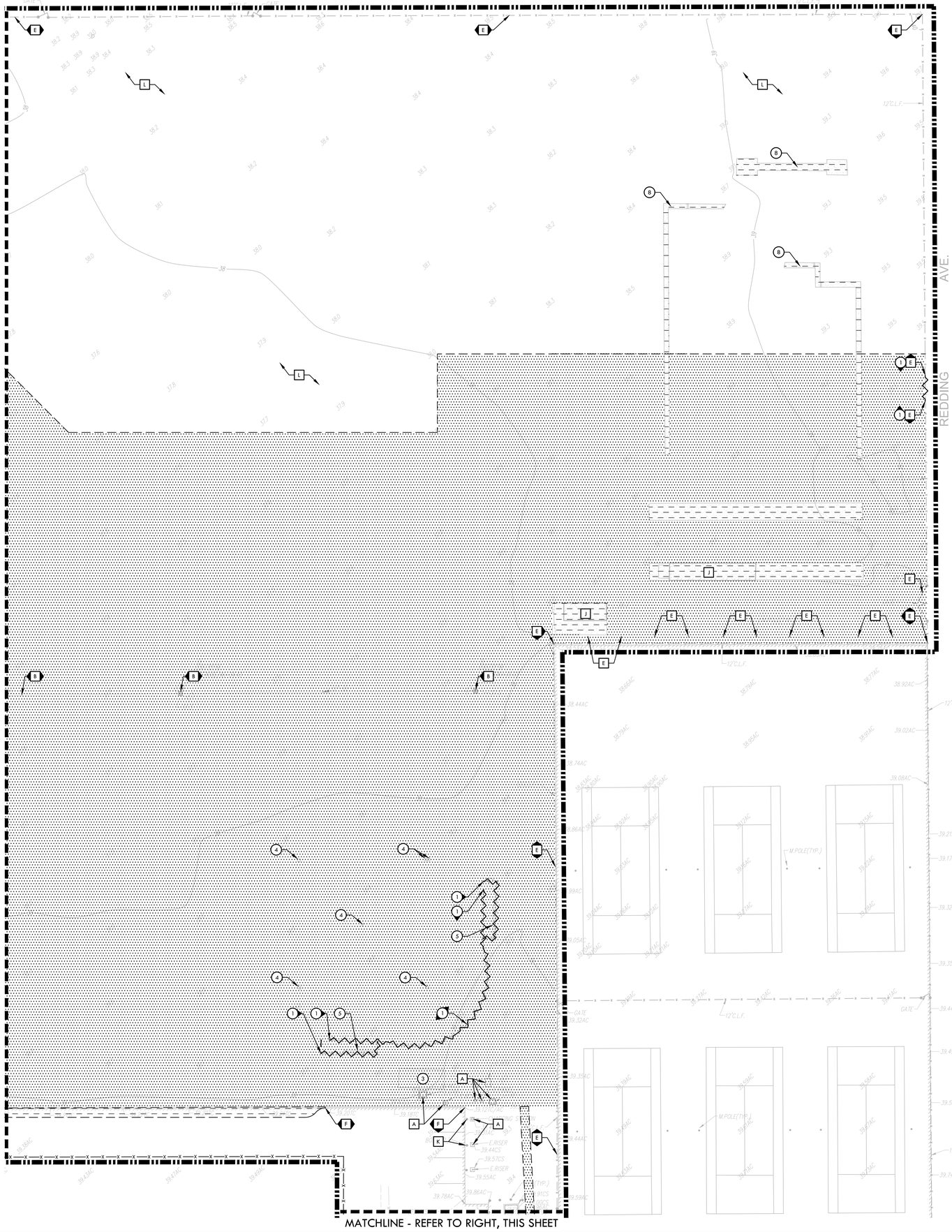
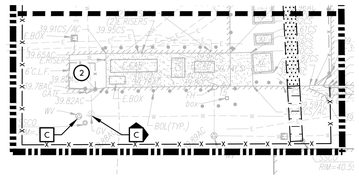
PLOT DATE: 09-15-22 PLOTTED BY: station27





DEMOLITION NOTES

1. THE CONTRACTOR SHALL PERFORM ALL CLEARING, DEMOLITION, REMOVAL OF OBSTRUCTIONS AND SITE PREPARATIONS NECESSARY FOR THE PROPER EXECUTION OF ALL WORK CONTAINED IN THE CONTRACT DOCUMENTS.
2. CONTRACTOR SHALL VERIFY LOCATION OF ALL EXISTING UTILITIES AND PROVIDE THE REQUIRED COORDINATION FOR THEIR TEMPORARY DISCONNECTION, PROTECTION, REMOVAL AND/OR STORAGE AS MAY BE REQUIRED DURING CONSTRUCTION. CONTRACTOR SHALL COORDINATE WITH THE DISTRICT TO DETERMINE WHETHER TEMPORARY SERVICES ARE NECESSARY.
3. THE CONTRACTOR SHALL VISIT THE SITE TO DETERMINE THE EXACT EXTENT AND DEPTH OF SITE DEMOLITION REQUIRED AND VERIFY COMPLIANCE WITH DRAWINGS. THE DISTRICT SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES.
4. 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'S 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. NOTIFY THE DISTRICT'S REPRESENTATIVE IMMEDIATELY SHOULD CONFLICTS ARISE AND REDIRECT WORK TO AVOID DELAY.
5. ALL EXISTING ITEMS ARE TO REMAIN UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING OR REPLACING, AT CONTRACTOR'S EXPENSE, ANY EXISTING ITEM DAMAGED OR DESTROYED BY CONSTRUCTION OPERATIONS. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR REPAIRING OR REPLACING ANY AND ALL DAMAGES TO ADJACENT PROPERTIES. THE DAMAGED ITEMS SHALL BE RESTORED TO AN "AS-WAS" OR BETTER CONDITION OR REPLACED PER THE DISCRETION OF THE DISTRICT'S REPRESENTATIVE.
6. PRIOR TO ANY DEMOLITION WORK, CONTRACTOR SHALL INSTALL SELF-SUPPORTING INTERLOCKING CHAIN-LINK TEMPORARY CONSTRUCTION FENCING TO ENCLOSE AND SECURE THE PROJECT AREA LIMIT OF WORK. THE FENCING SHALL CONTAIN PEDESTRIAN AND/OR VEHICULAR ACCESS GATES AS NECESSARY AND SHALL BE MINIMUM 6 FEET HIGH WITH A TOP AND BOTTOM RAIL WITH KNUCKLED TOP AND BOTTOM SELVAGE (NO BARBED WIRE PERMITTED). SHALL INCLUDE FULL HEIGHT GREEN SHADE CLOTH COVERING. THE CONSTRUCTION FENCING WORK SHALL BE SUBJECT TO THE DISCRETION OF THE DISTRICT'S REPRESENTATIVE.
7. PRIOR TO ANY DEMOLITION WORK, CONTRACTOR SHALL PROTECT ALL EXISTING PLANT MATERIAL NOT SCHEDULED FOR REMOVAL BY INSTALLING TEMPORARY 4 FOOT HIGH "BLAZE ORANGE" CONSTRUCTION SAFETY FENCING AT THE DRIPLINE OR PERIMETER. THE FENCING SHALL BE SECURED WITH DRIVEN METAL STAKES. ALL TREE PROTECTION WORK SHALL BE SUBJECT TO THE DISCRETION OF THE DISTRICT'S REPRESENTATIVE.
8. REFER TO SPECIFICATIONS FOR ADDITIONAL CLEARING, GRUBBING, TOPSOIL STOCKPILING AND OTHER PERTINENT INFORMATION.
9. CONTRACTOR TO FLUSH AND PERFORM A VIDEO INSPECTION OF ALL INSTALLED STORM WATER AND SANITARY SEWER PIPING WITHIN AREA OF WORK PRIOR TO START OF CONSTRUCTION AND AFTER COMPLETION. PROVIDE FLASH DRIVE TO DISTRICT FOR EACH SESSION.
10. SITE MAY CONTAIN UNDOCUMENTED STRUCTURES. CONTRACTOR SHALL NOTIFY DISTRICT REPRESENTATIVE UPON DISCOVERY PRIOR TO CONTINUING WORK.
11. CONTRACTOR IS RESPONSIBLE FOR THE CONTINUED IRRIGATION OF THE EXISTING VEGETATION TO REMAIN FOR THE DURATION OF CONSTRUCTION.

DEMOLITION LEGEND

SYM	DESCRIPTION
	LIMIT OF WORK
#	KEY LEGEND CALLOUT - ITEMS TO BE DEMOLISHED AND REMOVED
#	KEY LEGEND CALLOUT - ITEMS TO REMAIN AND BE PROTECTED
	EXISTING SURFACE VEGETATION TO BE REMOVED PER SPECIFICATIONS. REMOVE EXCESS SOIL FROM SITE AND DISPOSE IN LEGAL MANNER. REFER TO EARTHWORK SPECIFICATIONS FOR INFORMATION.
	DEMOLISH AND REMOVE EXISTING HARDSCAPE PAVING INCLUDING BASE MATERIAL AND DISPOSE IN LEGAL MANNER.
	TEMPORARY CONSTRUCTION FENCING
	LIMIT OF CLEAR AND GRUB
	DEMOLISH AND REMOVE EXISTING UTILITY LINE, AND/OR FENCE, INCLUDING POSTS, FABRIC, CURBS, EDGEBANDS AND FOOTINGS
R	EXISTING TREE TO REMAIN AND BE PROTECTED, REFER TO SPECIFICATIONS

ITEMS TO BE PROTECTED

- A — ELECTRICAL BOX, SERVICE CONDUIT AND LINES TO REMAIN AND BE PROTECTED. REFER TO ELECTRICAL PLANS FOR ADDITIONAL INFORMATION. BOXES LOCATED IN PAVEMENT SHALL BE ADJUSTED TO BE FLUSH WITH ADJACENT GRADES, REFER TO GRADING PLAN FOR ADDITIONAL INFORMATION. CONTRACTOR TO FIELD VERIFY AND CONFORM LID TYPES WITH DISTRICT'S REPRESENTATIVE.
- B — DRAINAGE STRUCTURE AND/OR DRAIN LINE TO REMAIN AND BE PROTECTED. REFER TO GRADING AND UTILITY PLAN FOR ADDITIONAL INFORMATION. REFER TO DRAINAGE PLAN FOR ADDITIONAL INFORMATION.
- C — WATER STRUCTURE AND/OR LINE TO REMAIN AND BE PROTECTED. REFER TO UTILITY PLAN FOR ADDITIONAL INFORMATION.
- D — SANITARY SEWER LINE AND/OR STRUCTURES TO REMAIN AND BE PROTECTED. REFER TO GRADING AND UTILITY PLAN FOR ADDITIONAL INFORMATION.
- E — FENCING AND/OR GATE, INCLUDING POSTS, FABRIC, AND EDGEBANDS/CURB TO REMAIN AND BE PROTECTED.
- F — HARDSCAPE PAVING TO REMAIN AND BE PROTECTED.
- G — CONCRETE V-SWALE TO REMAIN AND BE PROTECTED.
- H — IRRIGATION LINE/VALVE/QUICK COUPOLER/BOX/EQUIPMENT. REFER TO IRRIGATION DEMOLITION AND IRRIGATION PLANS FOR ADDITIONAL INFORMATION.
- I — BASKETBALL BACKBOARD AND POLES TO REMAIN AND BE PROTECTED.
- J — STORAGE CONTAINERS TO BE RELOCATED PER THE DIRECTION OF THE DISTRICT.
- K — BOLLARD TO REMAIN AND BE PROTECTED.
- L — LANDSCAPE AREA TO REMAIN AND BE PROTECTED. CONTRACTOR SHALL BE RESPONSIBLE TO REPAIR ANY DAMAGED AREAS TO AS-WAS OR BETTER CONDITION AT NO ADDITIONAL COST TO THE DISTRICT.

ITEMS TO BE DEMOLISHED

1. FENCING AND/OR GATE, INCLUDING POSTS, FABRIC, AND EDGEBANDS/CURB, INCLUDING FOOTINGS, TO BE DEMOLISHED AND REMOVED IN A LEGAL MANNER.
2. EXISTING IRRIGATION. REFER TO IRRIGATION DEMOLITION AND IRRIGATION PLANS FOR ADDITIONAL INFORMATION.
3. BLEACHERS INCLUDING FOOTINGS AND PAD TO BE DEMOLISHED AND REMOVED IN A LEGAL MANNER.
4. EXISTING BASEBALL AND SOFTBALL BASES/HOME PLATES TO BE REMOVED AND TURNED OVER TO THE DISTRICT.
5. EXISTING BENCH TO BE REMOVED AND TURNED OVER TO THE DISTRICT.
6. EXISTING BASEBALL AND/OR SOFTBALL FOUL POLE/EQUIPMENT, INCLUDING FOOTINGS, TO BE DEMOLISHED AND REMOVED IN A LEGAL MANNER.
7. DRAIN STRUCTURE AND OR LINE TO BE DEMOLISHED AND REMOVED. ALL DRAIN LINES TO BE ABANDONED IF NOT OBSTRUCTING FUTURE IMPROVEMENTS. ALL LINES OBSTRUCTING FUTURE IMPROVEMENTS TO BE DEMOLISHED AND REMOVED. LINES NOT DEMOLISHED THAT ARE 2" AND LARGER TO BE SLURRY FILLED.
8. EXISTING HARDSCAPE TO BE DEMOLISHED AND REMOVED IN A LEGAL MANNER.

NORTH
0' 10' 20' 40' 80'

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SPORT PLANNING & DESIGN
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Folsom, CA 95630
tel: 916.415.6554
fax: 916.415.6525
www.VerdeDesigninc.com

STAMP

REGISTERED LANDSCAPE ARCHITECT
MARK S. BRANKER
No. 4069
EXPIRATION DATE: JULY 2023
STATE OF CALIFORNIA

CONSULTANT

KEYMAP

L3.1 L3.2

SHEET TITLE
DEMOLITION PLAN - SOFTBALL FIELD AND GOLF

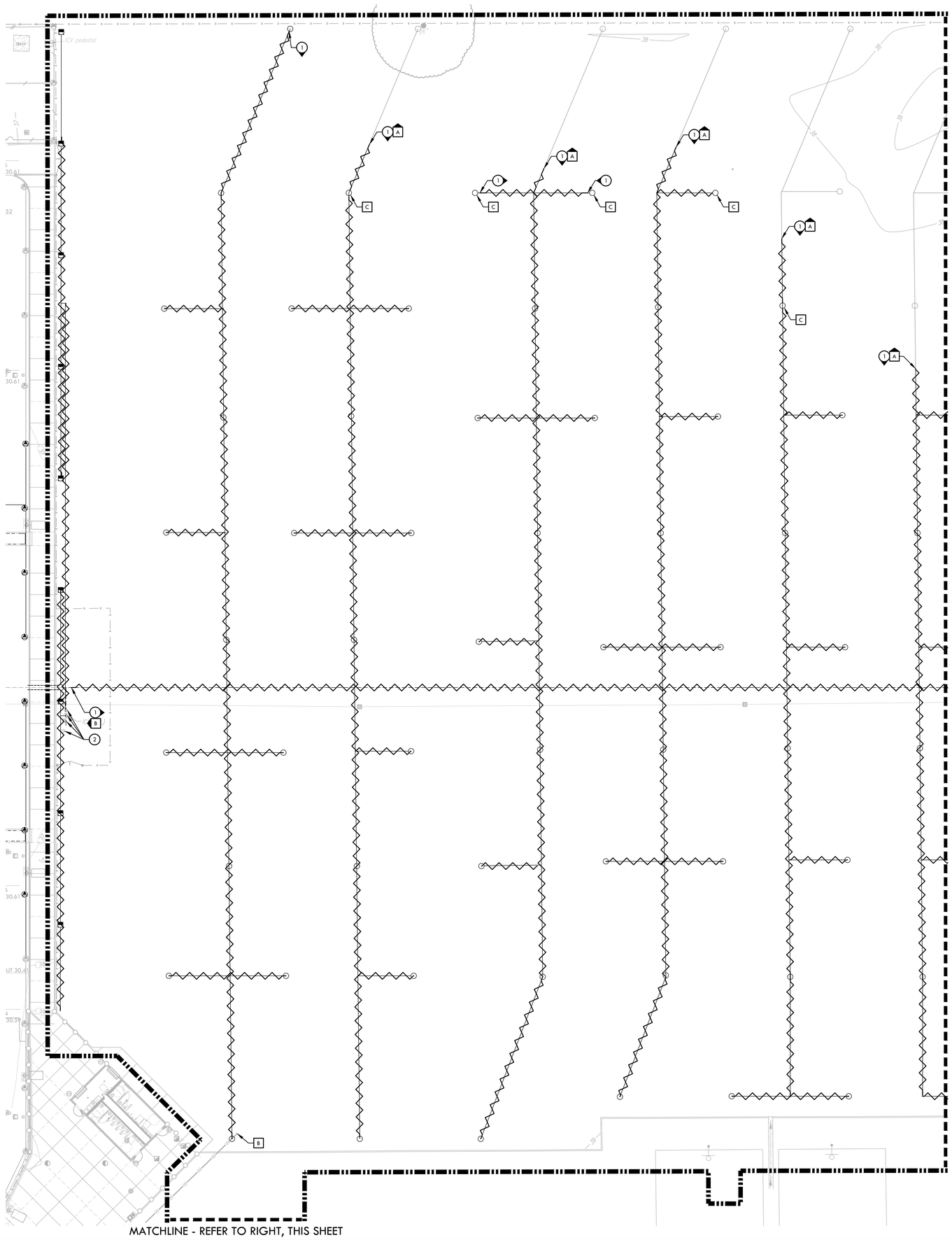
PROJECT NAME
HIRAM JOHNSON HIGH SCHOOL
GOLF PRACTICE FACILITY, VARSITY BASEBALL AND SOFTBALL FIELDS

PROJECT ADDRESS
6879 14TH AVENUE
SACRAMENTO, CA 95820

SUBMITTAL	DATE
DD 50% SUBMITTAL	04/15/22
100% DSA SUBMITTAL	05/27/22
DSA BACK CHECK	08/11/22
DSA ADDENDUM SUBMITTAL	09/16/22

NO.	REVISIONS	DATE
1	ADDENDUM	09/16/22

DRAWN BY: JC
CHECKED BY: MB/CS
DATE ISSUED: 09/16/2022
SCALE:
PROJ. NO.: 2203200
SHEET NO.: L3.2



IRRIGATION DEMOLITION NOTES

1. THIS PLAN IS FOR REFERENCE ONLY AND DOES NOT NECESSARILY REPRESENT WHAT WAS INSTALLED OR WHAT MAY EXIST AT THIS TIME. SYSTEM COMPONENTS, MANUFACTURER, MODEL NO'S, LOCATION, SIZE AND DEPTH ARE TO BE DETERMINED BY THE CONTRACTOR PRIOR TO COMMENCING ANY CONSTRUCTION WORK. ANY DAMAGE TO THE EXISTING SYSTEM TO REMAIN OR ADDITIONAL WORK INCURRED DUE TO DISCREPANCIES BETWEEN THIS SHEET AND EXISTING CONDITIONS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR. THERE WILL BE NO CHANGE ORDERS APPROVED DUE TO THE LACK OF THE CONTRACTORS SITE INVESTIGATION, LOGGING OF PERTINENT INFORMATION, AND MOVING FORWARD WITHOUT DETERMINING THE CORRECT DISPOSITION OF THE EXISTING IRRIGATION SYSTEM.
2. CONTRACTOR TO NOTE THAT THE LATERAL LINES CONNECTING THESE ZONES ARE NOT SHOWN AND THESE LATERAL LINES ARE ALSO TO BE DEMOLISHED AND REMOVED.
3. CONTRACTOR SHALL REFER TO DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
4. IRRIGATION LAYOUT IS BASED ON AS BUILTS. CONTRACTOR IS RESPONSIBLE TO VERIFY IRRIGATION ZONES PRIOR TO START OF DEMOLITION.

IRRIGATION DEMOLITION LEGEND

	DESCRIPTION
	LIMIT OF WORK
	IRRIGATION VALVE, GATE/BALL VALVE OR QUICK COUPLER TO REMAIN
	IRRIGATION VALVE, GATE/BALL VALVE OR QUICK COUPLER TO BE REMOVED OR RELOCATED. REFER TO PLANS FOR ADDITIONAL INFORMATION.
	ROTORS OR SPRAY HEADS TO REMAIN AND BE PROTECTED.
	ROTORS OR SPRAY HEADS TO BE REMOVED AND RETURNED TO THE DISTRICT.
	MAIN LINE TO REMAIN AND BE PROTECTED.
	IRRIGATION MAIN LINE TO BE DEMOLISHED AND REMOVED. CONTRACTOR MAY NEED TO INSTALL LOOP FIRST TO ENSURE IRRIGATION SYSTEM REMAINS OPERABLE DURING CONSTRUCTION.
	LATERAL LINE TO REMAIN AND BE PROTECTED.
	LATERAL LINE TO BE REMOVED.

IRRIGATION DEMOLITION ITEMS

ITEMS TO BE DEMOLISHED AND/OR REMOVED

(1) EXISTING IRRIGATION LATERAL LINE, MAIN LINE AND HEADS SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL BE RESPONSIBLE TO FIELD VERIFY LOCATION. CONTRACTOR TO CUT IRRIGATION LATERAL LINE OR MAIN LINE AT APPROXIMATE LOCATION SHOWN.

(2) EXISTING IRRIGATION CONTROL VALVE TO BE FIELD VERIFIED BEFORE DEMOLITION. CONTRACTOR TO RELOCATE VALVE AND REUSE FOR FOR EXISTING IRRIGATION SYSTEM LOCATED NORTH OF IMPROVEMENTS. WIRE VALVES TO NEW CONTROLLER.

(3) EXISTING IRRIGATION POINT OF CONNECTION ENCLOSURE. CONTRACTOR TO FIELD VERIFY LANDSCAPE AREAS BEING OPERATED BY THE CONTROLLER AND IRRIGATION BOOSTER PUMP. EXISTING IRRIGATION BOOSTER PUMP TO BE CAPPED AND ABANDONED WITHIN ENCLOSURE. CONTRACTOR SHALL BE RESPONSIBLE TO FIELD VERIFY AND TRACE EXISTING IRRIGATION MAIN LINE ROUTE AND CONNECT TO NEW MAIN LINE. COORDINATE WITH DISTRICT FOR EXISTING IRRIGATION CONTROLLER TO BE ABANDONED IN PLACE. FOR STATIONS LOCATED OUTSIDE OF IMPROVEMENTS, CONTRACTOR SHALL BE RESPONSIBLE TO CONNECT VALVES TO NEW CONTROLLER.

ITEMS TO BE PROTECTED OR RELOCATED

[A] EXISTING IRRIGATION LATERAL LINE TO REMAIN AND BE PROTECTED. CONTRACTOR SHALL BE RESPONSIBLE TO CONNECT ZONE TO MAIN LINE, IRRIGATION CONTROLLER AND ENSURE HEAD-TO-HEAD COVERAGE IS ACHIEVED WITHIN ZONE INCLUDING BUT NOT LIMITED TO EXTENDING NEW LATERAL LINE, ADDING ADDITIONAL HEADS OR RELOCATING HEADS.

[B] EXISTING IRRIGATION MAIN LINE TO REMAIN AND BE PROTECTED. CONNECT AND EXTEND NEW MAIN LINE AS SHOWN ON IRRIGATION PLANS.

[C] EXISTING IRRIGATION ROTOR TO BE ADJUSTED/RELOCATED TO ACHIEVE HEAD-TO-HEAD COVERAGE. CONTRACTOR SHALL BE RESPONSIBLE TO ADJUST EXISTING ROTOR INCLUDING BUT NOT LIMITED TO ADJUSTING SPRAY PATTERN, RELOCATING HEAD AND EXTENDING LATERAL LINE.

NORTH

0' 10' 20' 40' 60'

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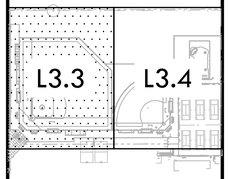
REGISTERED LANDSCAPE ARCHITECT
MARK S. BRAUNER
No. 4069
EXPIRATION DATE: JULY 2023
STATE OF CALIFORNIA

CONSULTANT

KEYMAP



SHEET TITLE

IRRIGATION DEMOLITION PLAN - BASEBALL FIELD

PROJECT NAME

HIRAM JOHNSON HIGH SCHOOL GOLF PRACTICE FACILITY, VARSITY BASEBALL AND SOFTBALL FIELDS

PROJECT ADDRESS

6879 14TH AVENUE
SACRAMENTO, CA 95820

SUBMITTAL	DATE
DD 50% SUBMITTAL	04/15/22
100% DSA SUBMITTAL	05/27/22
DSA BACK CHECK	08/11/22
DSA ADDENDUM SUBMITTAL	09/16/22

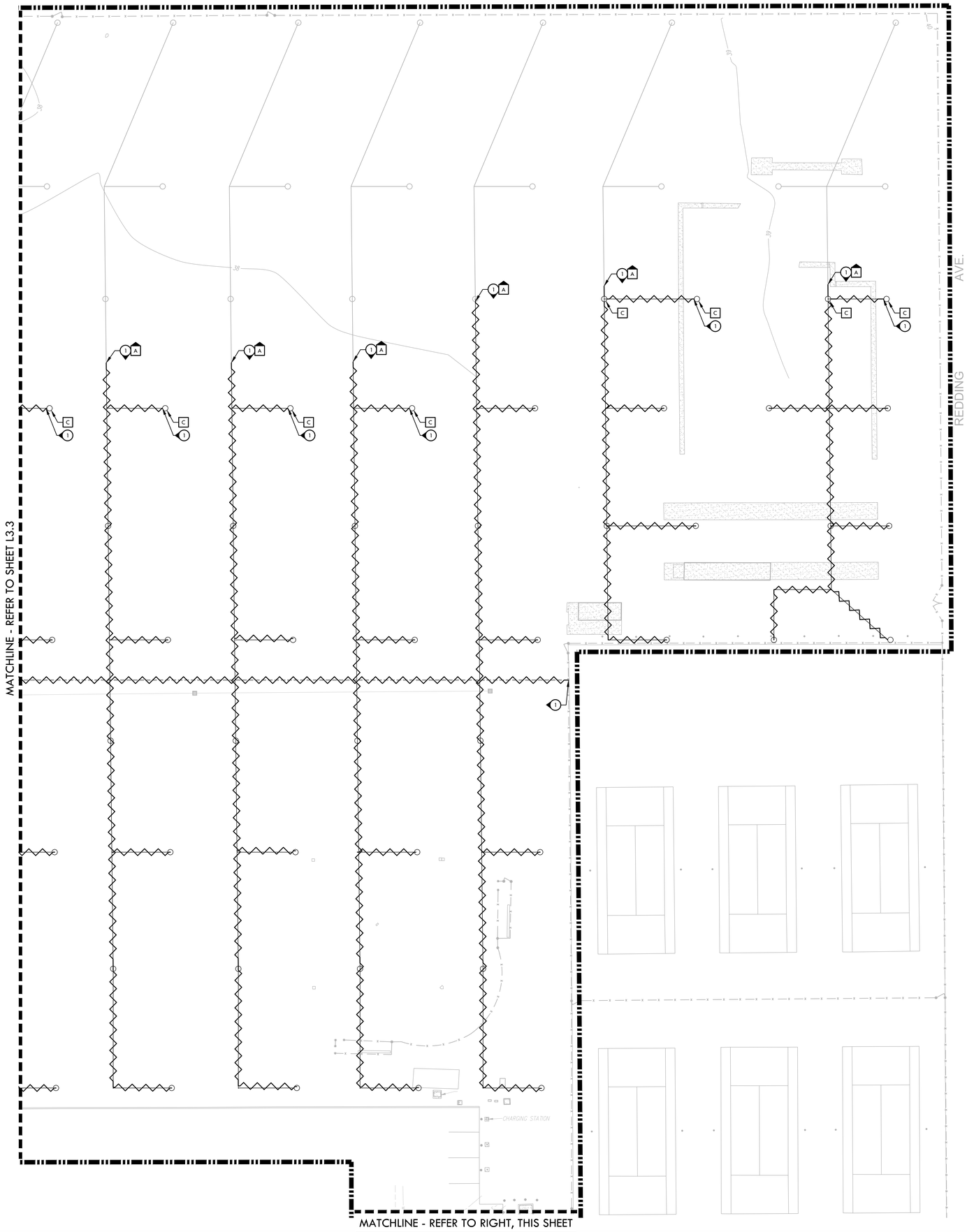
NO.	REVISIONS	DATE
1	ADDENDUM	09/16/22

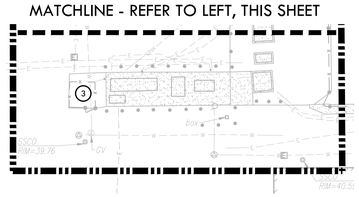
DRAWN BY	CHECKED BY
JC	MB/CS
DATE ISSUED	SCALE
09/16/2022	1" = 20'-0"

PROJ. NO. 2203200

SHEET NO. L3.3

DRAWING NAME: Y:\Projects-FO\2022\2203200 - Hiram Johnson Golf Baseball Softball\CAD_DEM - IRRIGATION.dwg
PLOT DATE: 09-15-22 PLOTTED BY: station27





IRRIGATION DEMOLITION NOTES

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2. CONTRACTOR TO NOTE THAT THE LATERAL LINES CONNECTING THESE ZONES ARE NOT SHOWN AND THESE LATERAL LINES ARE ALSO TO BE DEMOLISHED AND REMOVED.
3. CONTRACTOR SHALL REFER TO DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
4. IRRIGATION LAYOUT IS BASED ON AS BUILTS. CONTRACTOR IS RESPONSIBLE TO VERIFY IRRIGATION ZONES PRIOR TO START OF DEMOLITION.

IRRIGATION DEMOLITION LEGEND

	DESCRIPTION
	LIMIT OF WORK
	IRRIGATION VALVE, GATE/BALL VALVE OR QUICK COUPLER TO REMAIN
	IRRIGATION VALVE, GATE/BALL VALVE OR QUICK COUPLER TO BE REMOVED OR RELOCATED. REFER TO PLANS FOR ADDITIONAL INFORMATION.
	ROTORS OR SPRAY HEADS TO REMAIN AND BE PROTECTED.
	ROTORS OR SPRAY HEADS TO BE REMOVED AND RETURNED TO THE DISTRICT.
	MAIN LINE TO REMAIN AND BE PROTECTED.
	IRRIGATION MAIN LINE TO BE DEMOLISHED AND REMOVED. CONTRACTOR MAY NEED TO INSTALL LOOP FIRST TO ENSURE IRRIGATION SYSTEM REMAINS OPERABLE DURING CONSTRUCTION.
	LATERAL LINE TO REMAIN AND BE PROTECTED.
	LATERAL LINE TO BE REMOVED.

IRRIGATION DEMOLITION ITEMS

ITEMS TO BE DEMOLISHED AND/OR REMOVED

(1) EXISTING IRRIGATION LATERAL LINE, MAIN LINE AND HEADS SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL BE RESPONSIBLE TO FIELD VERIFY LOCATION. CONTRACTOR TO CUT IRRIGATION LATERAL LINE OR MAIN LINE AT APPROXIMATE LOCATION SHOWN.

(2) EXISTING IRRIGATION CONTROL VALVE TO BE FIELD VERIFIED BEFORE DEMOLITION. CONTRACTOR TO RELOCATE VALVE AND REUSE FOR FOR EXISTING IRRIGATION SYSTEM LOCATED NORTH OF IMPROVEMENTS. WIRE VALVES TO NEW CONTROLLER.

(3) EXISTING IRRIGATION POINT OF CONNECTION ENCLOSURE. CONTRACTOR TO FIELD VERIFY LANDSCAPE AREAS BEING OPERATED BY THE CONTROLLER AND IRRIGATION BOOSTER PUMP. EXISTING IRRIGATION BOOSTER PUMP TO BE CAPPED AND ABANDONED WITHIN ENCLOSURE. CONTRACTOR SHALL BE RESPONSIBLE TO FIELD VERIFY AND TRACE EXISTING IRRIGATION MAIN LINE ROUTE AND CONNECT TO NEW MAIN LINE. COORDINATE WITH DISTRICT FOR EXISTING IRRIGATION CONTROLLER TO BE ABANDONED IN PLACE. FOR STATIONS LOCATED OUTSIDE OF IMPROVEMENTS, CONTRACTOR SHALL BE RESPONSIBLE TO CONNECT VALVES TO NEW CONTROLLER.

ITEMS TO BE PROTECTED OR RELOCATED

[A] EXISTING IRRIGATION LATERAL LINE TO REMAIN AND BE PROTECTED. CONTRACTOR SHALL BE RESPONSIBLE TO CONNECT ZONE TO MAIN LINE, IRRIGATION CONTROLLER AND ENSURE HEAD-TO-HEAD COVERAGE IS ACHIEVED WITHIN ZONE INCLUDING BUT NOT LIMITED TO EXTENDING NEW LATERAL LINE, ADDING ADDITIONAL HEADS OR RELOCATING HEADS.

[B] EXISTING IRRIGATION MAIN LINE TO REMAIN AND BE PROTECTED. CONNECT AND EXTEND NEW MAIN LINE AS SHOWN ON IRRIGATION PLANS.

[C] EXISTING IRRIGATION ROTOR TO BE ADJUSTED/RELOCATED TO ACHIEVE HEAD-TO-HEAD COVERAGE. CONTRACTOR SHALL BE RESPONSIBLE TO ADJUST EXISTING ROTOR INCLUDING BUT NOT LIMITED TO ADJUSTING SPRAY PATTERN, RELOCATING HEAD AND EXTENDING LATERAL LINE.

NORTH

0' 10' 20' 40' 60'

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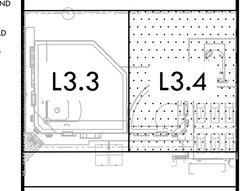
fax: 916.415.6525
www.VerdeDesigninc.com

STAMP

REGISTERED LANDSCAPE ARCHITECT
MARK S. BRAUNER
No. 4069
EXPIRATION DATE: JULY 2023
STATE OF CALIFORNIA

CONSULTANT

KEYMAP



SHEET TITLE
IRRIGATION DEMOLITION PLAN - SOFTBALL FIELD AND GOLF

PROJECT NAME
HIRAM JOHNSON HIGH SCHOOL
GOLF PRACTICE FACILITY, VARSITY BASEBALL AND SOFTBALL FIELDS

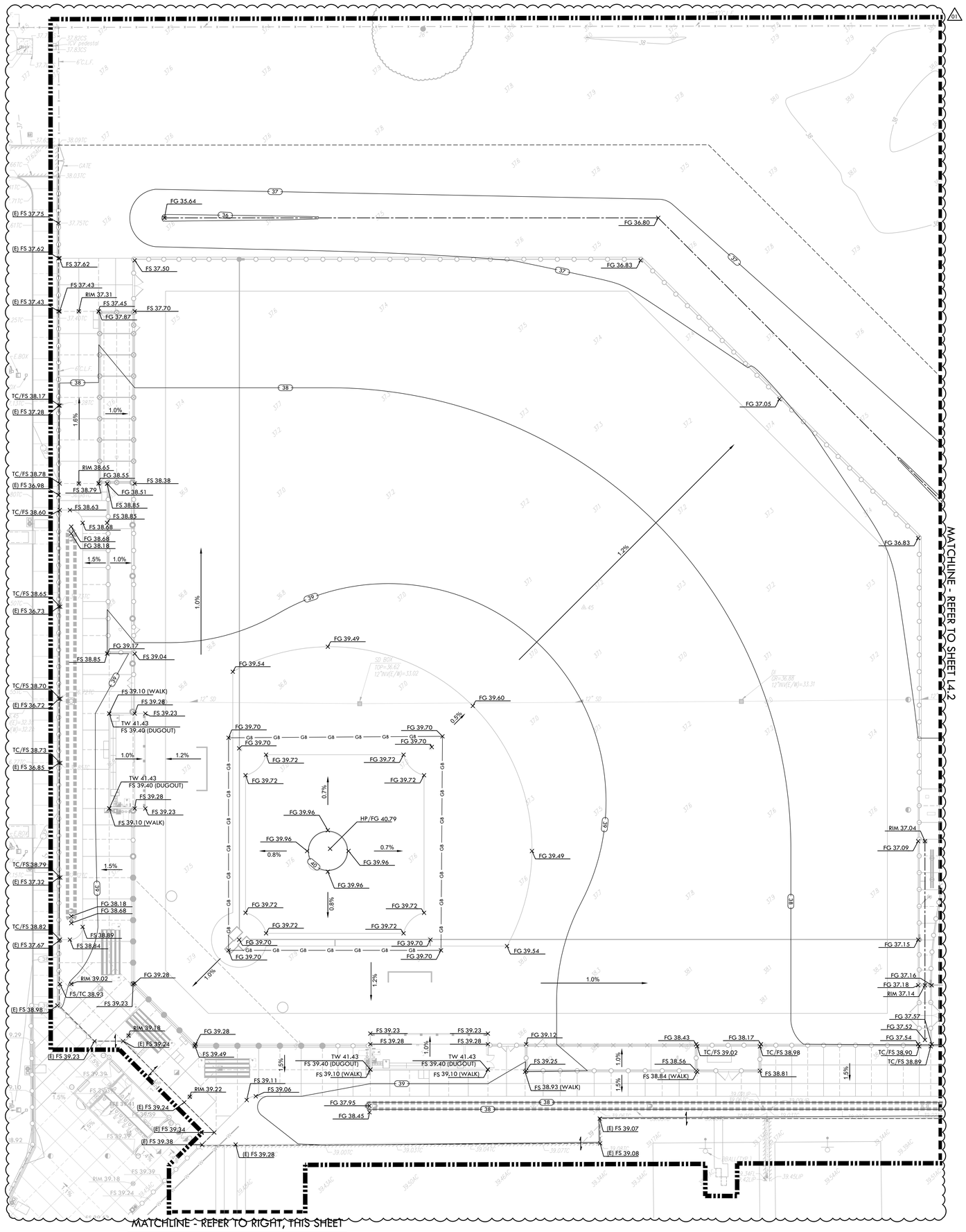
PROJECT ADDRESS
6879 14TH AVENUE
SACRAMENTO, CA 95820

SUBMITTAL	DATE
DD 50% SUBMITTAL	04/15/22
100% DSA SUBMITTAL	05/27/22
DSA BACK CHECK	08/11/22
DSA ADDENDUM SUBMITTAL	09/16/22

NO.	REVISIONS	DATE
1	ADDENDUM	09/16/22

DRAWN BY: JC
CHECKED BY: MB/CS
DATE ISSUED: 09/16/2022
SCALE: 1" = 20'-0"
PROJ. NO.: 2203200
SHEET NO.: L3.4

DRAWING NAME: Y:\Projects-FO\2022\2203200 - Hiram Johnson Golf Baseball Softball\CAD_DEM - IRRIGATION.dwg
PLOT DATE: 09-15-22 PLOTTED BY: station27



GRADING NOTES

1. EXISTING GRADES ARE BASED ON INFORMATION PROVIDED BY: WARREN CONSULTING ENGINEERS, INC. CONTRACTOR SHALL VERIFY EXISTING GRADES FOR ACCURACY PRIOR TO THE START OF GRADING, NOTIFY THE DISTRICT'S REPRESENTATIVE IMMEDIATELY SHOULD CONFLICTS ARISE AND REDIRECT WORK TO AVOID DELAY.
2. 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'S REPRESENTATIVE. THE CONTRACTOR SHALL CONTACT UNDER GROUND 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.
3. PROPOSED GRADES SHALL MEET EXISTING GRADES WITH A SMOOTH AND CONTINUOUS TRANSITION SO AS TO AVOID TRAPPING WATER. CONTRACTOR SHALL NOTIFY DISTRICT REPRESENTATIVE IF PUDDLING IS SUSPECTED AND REDIRECT WORK SO AS TO AVOID DELAY WHILE AWAITING RESPONSE.
4. ALL EXISTING DRAINAGE STRUCTURES, BOXES, UTILITY VAULTS ETC. SHALL BE BROUGHT TO FINAL FINISH GRADE PRIOR TO FINAL SURFACE TREATMENT.

GRADING LEGEND

SYM	DESCRIPTION
	LIMIT OF GRADING - CONFORM TO EXISTING GRADES AT THIS LINE
GB GB	GRADE BREAK
	CENTERLINE OF SWALE
	BOTTOM OF BIORETENTION AREA
38	PROPOSED CONTOUR
FG 35.00	PROPOSED FINISH GRADE ELEVATION OF SOFTSCAPE
FS 35.00	PROPOSED FINISH SURFACE ELEVATION OF HARDSCAPE
FT 35.00	PROPOSED TOP OF INFILL ELEVATION OF SYNTHETIC TURF
SG 35.00	PROPOSED SUBGRADE ELEVATION
TC 35.50	PROPOSED TOP OF CURB ELEVATION
TW 37.00	PROPOSED TOP OF WALL ELEVATION
RIM 35.00	PROPOSED RIM ELEVATION OF DRAIN
	CONFORM TO EXISTING GRADE
	FLOW DIRECTION IN SOFTSCAPE
38	EXISTING CONTOUR
38.1	EXISTING ELEVATION
1.00%	SLOPE AND DIRECTION
(E)	EXISITNG
HP	HIGH POINT
LP	LOW POINT

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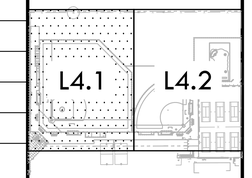
REGISTERED LANDSCAPE ARCHITECT
MARK S. BRAUNER
No. 4069
EXPIRATION DATE: JULY 2023
STATE OF CALIFORNIA

CONSULTANT

KEYMAP



SHEET TITLE

GRADING PLAN - BASEBALL FIELD

PROJECT NAME

HIRAM JOHNSON HIGH SCHOOL GOLF PRACTICE FACILITY, VARSITY BASEBALL AND SOFTBALL FIELDS

PROJECT ADDRESS

6879 14TH AVENUE SACRAMENTO, CA 95820

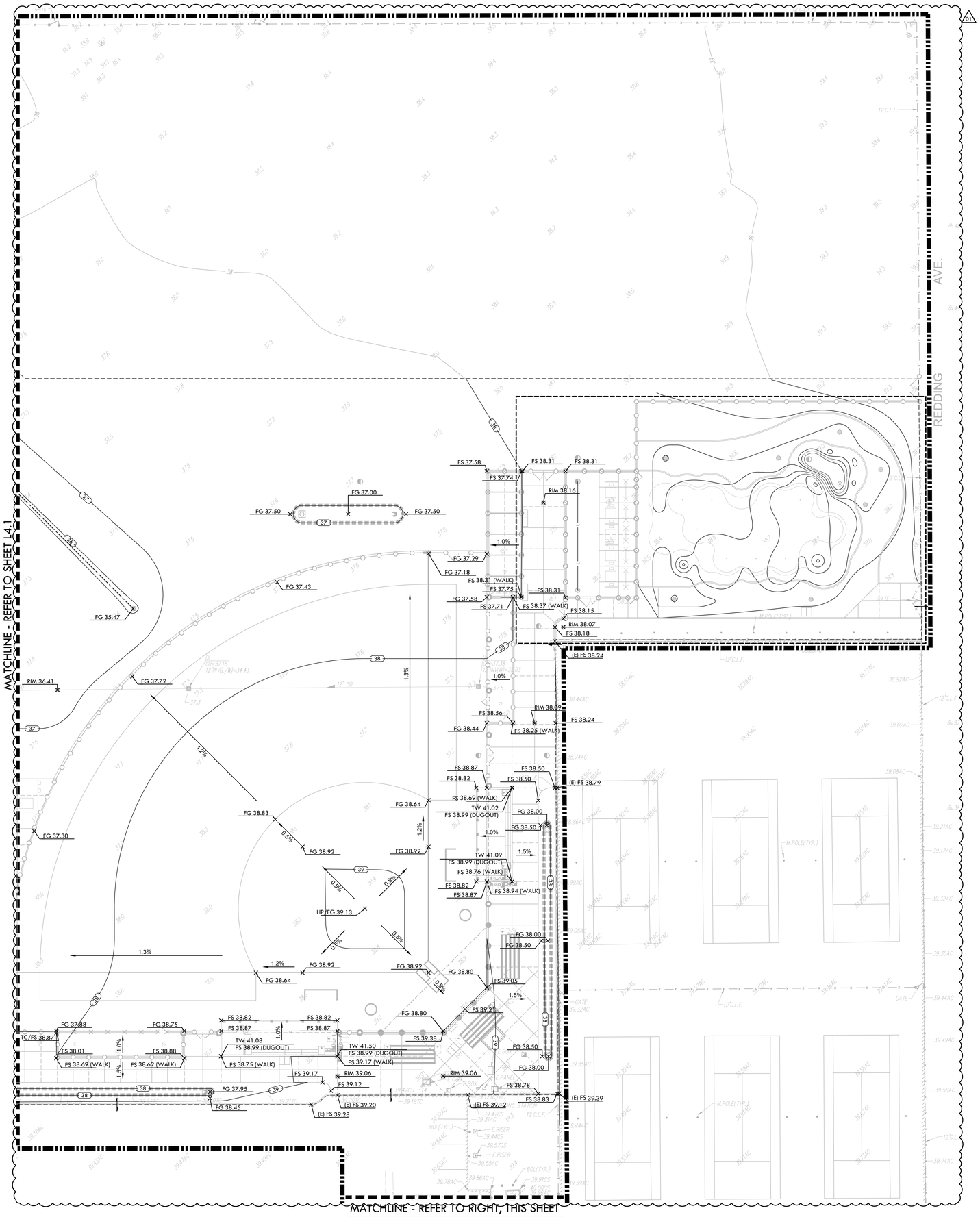
SUBMITTAL	DATE
DD 50% SUBMITTAL	04/15/22
100% DSA SUBMITTAL	05/27/22
DSA BACK CHECK	08/11/22
DSA ADDENDUM SUBMITTAL	09/16/22

NO.	REVISIONS	DATE
1	ADDENDUM	09/16/22

DRAWN BY	CHECKED BY
DK	MB/CS
DATE ISSUED	SCALE
09/16/2022	1" = 20'-0"
PROJ. NO.	
2203200	
SHEET NO.	
L4.1	

NORTH
0' 10' 20' 40' 60'

DRAWING NAME: Y:\Projects-FY\2022\2203200 - Hiram Johnson Golf Baseball Softball\CAD_GRD_C30.dwg
PLOT DATE: 09-15-22 PLOTTED BY: station27



GRADING NOTES

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4. ALL EXISTING DRAINAGE STRUCTURES, BOXES, UTILITY VAULTS ETC. SHALL BE BROUGHT TO FINAL FINISH GRADE PRIOR TO FINAL SURFACE TREATMENT.

GRADING LEGEND

SYM	DESCRIPTION
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	CENTERLINE OF SWALE
	BOTTOM OF BIORETENTION AREA
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FS 35.00	PROPOSED FINISH SURFACE ELEVATION OF HARDSCAPE
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	CONFORM TO EXISTING GRADE
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38	EXISTING ELEVATION
1.00%	SLOPE AND DIRECTION
(E)	EXISITNG
HP	HIGH POINT
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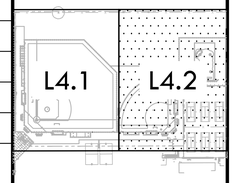
MARK S. BRAUNER
No. 4069
EXPIRATION DATE: JULY 2023
STATE OF CALIFORNIA

CONSULTANT

KEYMAP



SHEET TITLE

GRADING PLAN - SOFTBALL FIELD AND GOLF

PROJECT NAME

HIRAM JOHNSON HIGH SCHOOL GOLF PRACTICE FACILITY, VARSITY BASEBALL AND SOFTBALL FIELDS

PROJECT ADDRESS

6879 14TH AVENUE
SACRAMENTO, CA 95820

SUBMITTAL	DATE
DD 50% SUBMITTAL	04/15/22
100% DSA SUBMITTAL	05/27/22
DSA BACK CHECK	08/11/22
DSA ADDENDUM SUBMITTAL	09/16/22

NO.	REVISIONS	DATE
1	ADDENDUM	09/16/22
2		
3		
4		
5		
6		

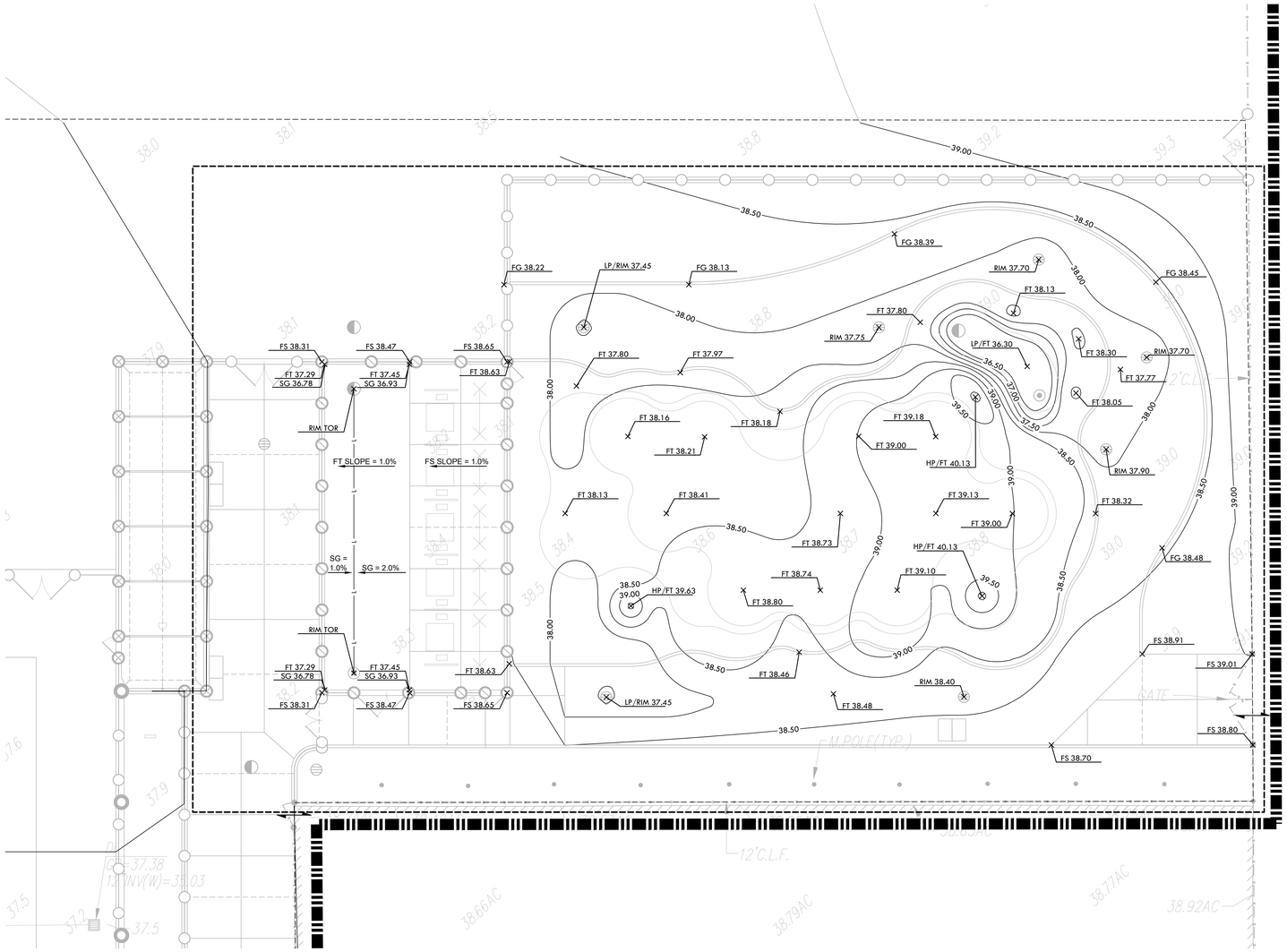
DRAWN BY	CHECKED BY
DK	MB/CS
DATE ISSUED	SCALE
09/16/2022	1" = 20'-0"

PROJ. NO. 2203200

SHEET NO. L4.2

NORTH
0' 10' 20' 40' 60'

DRAWING NAME: Y:\Projects-FO\2022\2203200 – Hiram Johnson Golf Baseball Softball\CAD_GRD_C3D.dwg
PLOT DATE: 09-15-22 PLOTTED BY: station27



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GRADING LEGEND

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FS 35.00	PROPOSED FINISH SURFACE ELEVATION OF HARDSCAPE
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TC 35.50	PROPOSED TOP OF CURB ELEVATION
TW 37.00	PROPOSED TOP OF WALL ELEVATION
RIM 35.00	PROPOSED RIM ELEVATION OF DRAIN
	CONFORM TO EXISTING GRADE
	FLOW DIRECTION IN SOFTSCAPE
38	EXISTING CONTOUR
38'	EXISTING ELEVATION
1.00%	SLOPE AND DIRECTION
(E)	EXISITNG
HP	HIGH POINT
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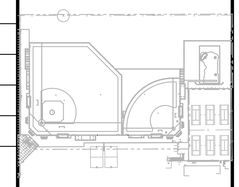

SHEET TITLE

GRADING PLAN - SOFTBALL FIELD AND GOLF

PROJECT NAME

HIRAM JOHNSON HIGH SCHOOL
GOLF PRACTICE FACILITY, VARSITY BASEBALL AND SOFTBALL FIELDS

PROJECT ADDRESS

6879 14TH AVENUE
SACRAMENTO, CA 95820

SUBMITTAL	DATE
DD 50% SUBMITTAL	04/15/22
100% DSA SUBMITTAL	05/27/22
DSA BACK CHECK	08/11/22
DSA ADDENDUM SUBMITTAL	09/16/22

NO.	REVISIONS	DATE
1	ADDENDUM	09/16/22

DRAWN BY	CHECKED BY
DK	MB/CS
DATE ISSUED	SCALE
09/16/2022	1" = 10'-0"

PROJ. NO. 2203200

SHEET NO. L4.3

NORTH
0' 5' 10' 20' 30'

GRADING PLAN - GOLF ENLARGEMENT

DRAWING NAME: Y:\Projects-FO\2022\2203200 – Hiram Johnson Golf Baseball Softball\CAD_GRD_C3D.dwg
PLOT DATE: 09-15-22 PLOTTED BY: station27

CHEMICAL TREATMENT LEGEND

SYM	DESCRIPTION
	PROJECT LIMIT OF WORK
	LOCATIONS OF DEEP EDGES AT PERIMETER OF CHEMICAL TREATMENT AREAS (REFER TO MATERIALS PLAN AND DETAILS FOR MORE INFORMATION)
	AREA OF CHEMICAL TREATMENT, REFER TO SPECIFICATIONS & GEOTECHNICAL REPORT

AREA OF ADDITIVE ALTERNATE #01. INSTALL SYNTHETIC TURF IN LIEU OF LANDSCAPE.

REDDING AVE.

ADDITIVE ALTERNATE #1

NORTH

0' 15' 30' 60' 90'

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KEYMAP

SHEET TITLE

GRADING PLAN - CHEMICAL TREATMENT

PROJECT NAME

HIRAM JOHNSON HIGH SCHOOL GOLF PRACTICE FACILITY, VARSITY BASEBALL AND SOFTBALL FIELDS

PROJECT ADDRESS

6879 14TH AVENUE
SACRAMENTO, CA 95820

SUBMITTAL	DATE
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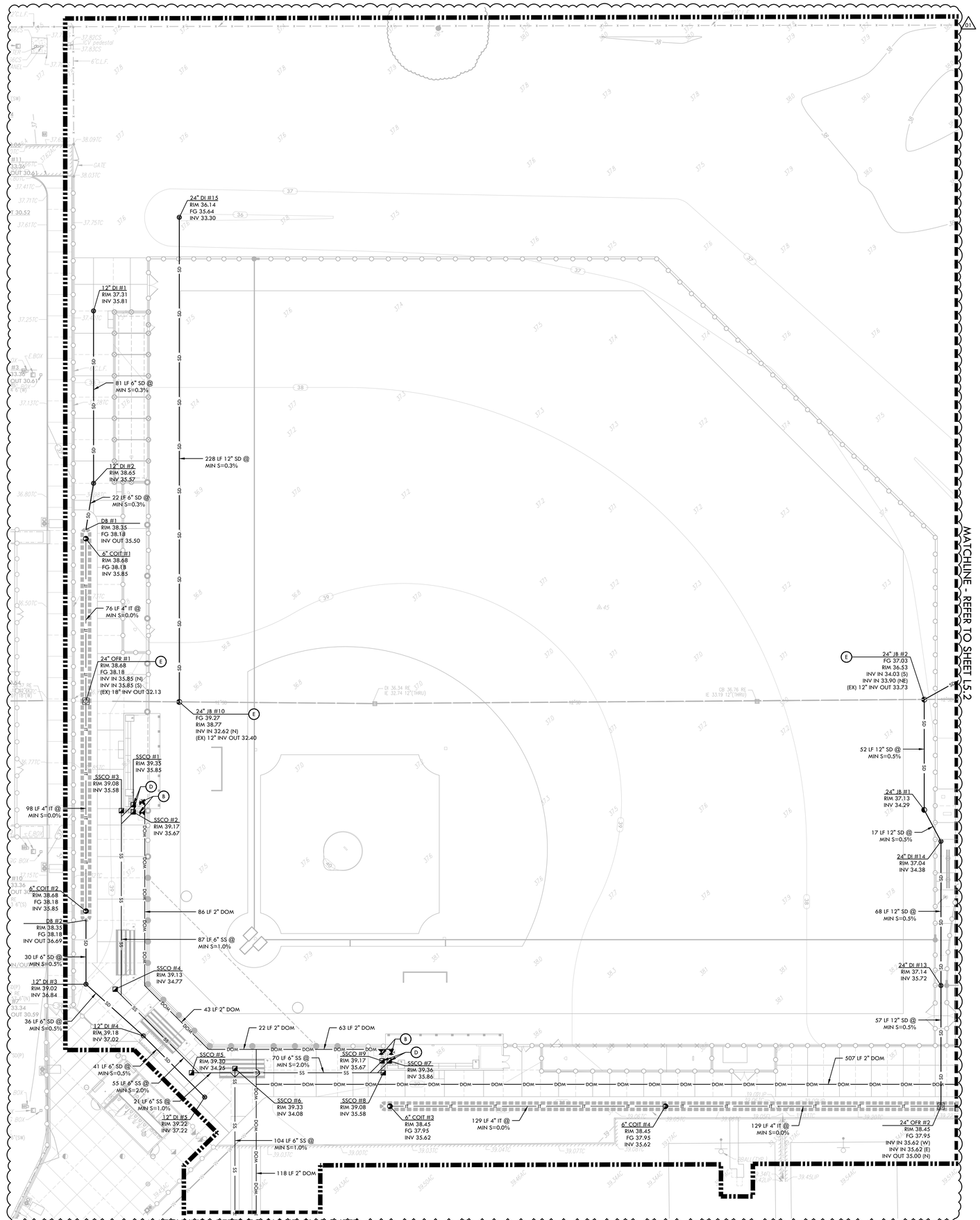
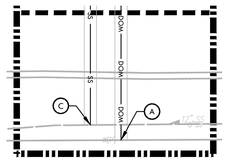
JC	MB/CS
DATE ISSUED	SCALE
09/16/2022	1" = 30'-0"

PROJ. NO. 2203200

SHEET NO. L4.4

DRAWING NAME: Y:\Projects-FO\2022\2203200 - Hiram Johnson Golf Baseball Softball\CAD_CHEM TREATMENT PLAN.dwg
PLOT DATE: 09-15-22 PLOTTED BY: station27





DRAINAGE & UTILITY NOTES

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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 THESE CONTRACT DOCUMENTS.
5. THE CONTRACTOR IS TO ENSURE THAT ALL REMAINING ACTIVE AND NEW DRAINAGE AND UTILITY LINES ARE PROTECTED AND UNDAMAGED FROM TRENCHING AND FOOTING EXCAVATIONS FOR NEW FOOTINGS, PARTICULARLY FOR NEW FENCING AND WALLS.
6. ALL ABANDONED STORM LINES SHALL REMAIN IN PLACE UNLESS IN CONFLICT WITH PROPOSED DRAINAGE, UTILITY, OR SUBGRADING OPERATIONS, IN WHICH CASE ABANDONED PIPE IN CONFLICT SHALL BE REMOVED. REMAINING ABANDONED STORM PIPE SHALL BE SEALED WITH APPROPRIATELY SIZED CONCRETE CAP (3 SACK MIX) 6" ENVELOPE OUTSIDE AND INSIDE DIAMETER OF PIPE.
7. PRIOR TO ALL DRAINAGE AND UTILITY WORK, CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL POTENTIAL DRAINAGE CONNECTIONS AND EXISTING UTILITY BY POTHOLING. IN ADDITION, ALL DOWNSTREAM CONNECTIONS TO EXISTING STRUCTURES SHALL BE THE START OF THESE OPERATIONS, AND GRADES SHALL BE VERIFIED.
8. WHEN WORK HAS TO OCCUR UNDER THE DRIPLINE OF EXISTING TREES NOT SCHEDULED FOR REMOVAL, THE CONTRACTOR SHALL USE ALL POSSIBLE CARE TO AVOID INJURY TO THE TREES AND TREE ROOTS. GRADE IN LINES RADIAL TO THE EXISTING TREES RATHER THAN TANGENTIAL. ALL PARTIAL CUTS OR TEARS THROUGH ROOTS TWO INCHES IN DIAMETER AND LARGER SHALL BE CUT CLEAN. TRENCHES ADJACENT TO TREES SHALL BE FILLED WITHIN 24 HOURS AFTER EXCAVATION, BUT WHERE THIS IS NOT POSSIBLE, THE SIDE OF THE TRENCH ADJACENT TO THE TREE, AND ANY EXPOSED ROOTS SHALL BE KEPT SHADED AND MOIST WITH DAMPENED BURLAP OR CANVAS.
9. ALL DRAIN LINES LEAVING COMBOXES, WATER CANNONS AND QUICK COUPLERS SHALL BE DAYLIGHTING TO NEAREST SUBDRAIN TRENCH.

DRAINAGE & UTILITY LEGEND

SYM	DESCRIPTION	DETAIL NUMBER / SHEET NUMBER
	LIMIT OF WORK	
	JUNCTION BOX (JB), SIZE PER PLAN	F / D1.1
	JUNCTION BOX IN SYNTHETIC TURF (JBT), SIZE PER PLAN	I / D1.1
	STORM DRAIN INLET (DI), SIZE PER PLAN	F / D1.1
	SANITARY SEWER CLEANOUT (SSCO), SIZE PER PLAN	H / D1.1
	CLEANOUT IN SYNTHETIC TURF (COT), SIZE PER PLAN	E / D1.1
	CLEANOUT IN BIORETENTION AREA (COIT), SIZE PER PLAN	A / D1.2
	OVERFLOW RISER (OFR) WITH GRATE/STANDPIPE AT BIORETENTION AREA, SIZE PER PLAN	C / D1.2
	BOTTOM OF BIORETENTION AREA	D / D1.2
SD	SOLID WALL STORM DRAIN, SIZE PER PLAN	B, D / D1.1
DOM	DOMESTIC WATER LINE, SIZE PER PLAN	C, D / D1.1
SS	SANITARY SEWER LINE, SIZE PER PLAN	B, D / D1.1
PERF	PERFORATED SUBDRAIN LINE, SIZE PER PLAN	N / D1.1
	DOMESTIC WATER GATE VALVE	A, B / D6.1
(E)	EXISTING	
CB	CATCH BASIN	
DB	DRAINAGE BUBBLER	E / D1.2
INV	INVERT	
JB	JUNCTION BOX	
RIM	RIM ELEVATION	
LF	LINEAR FEET	
S=0.5%	SLOPE	
MIN.	MINIMUM	
A	DOMESTIC WATER POINT OF CONNECTION. CONTRACTOR TO VERIFY LOCATION PRIOR TO INITIATING DRAINAGE IMPROVEMENTS.	
B	DOMESTIC WATER CONNECTION TO DRINKING FOUNTAIN	
C	SANITARY SEWER POINT OF CONNECTION. CONTRACTOR TO VERIFY LOCATION AND INVERT ELEVATION PRIOR TO INITIATING DRAINAGE IMPROVEMENTS. ANY DISCREPANCY TO BE PROVIDED TO DISTRICT IN WRITING.	
D	SANITARY SEWER CONNECTION TO DRINKING FOUNTAIN	
E	STORM DRAIN POINT OF CONNECTION. CONTRACTOR TO VERIFY LOCATION AND INVERT ELEVATION PRIOR TO INITIATING DRAINAGE IMPROVEMENTS. ANY DISCREPANCY TO BE PROVIDED TO DISTRICT IN WRITING.	

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REGISTERED LANDSCAPE ARCHITECT
MARK S. BRUNKOW
No. 4069
EXPIRATION DATE: JULY 2023
STATE OF CALIFORNIA

CONSULTANT

KEYMAP

SHEET TITLE

DRAINAGE AND UTILITY PLAN - BASEBALL FIELD

PROJECT NAME

HIRAM JOHNSON HIGH SCHOOL GOLF PRACTICE FACILITY, VARSITY BASEBALL AND SOFTBALL FIELDS

PROJECT ADDRESS

6879 14TH AVENUE SACRAMENTO, CA 95820

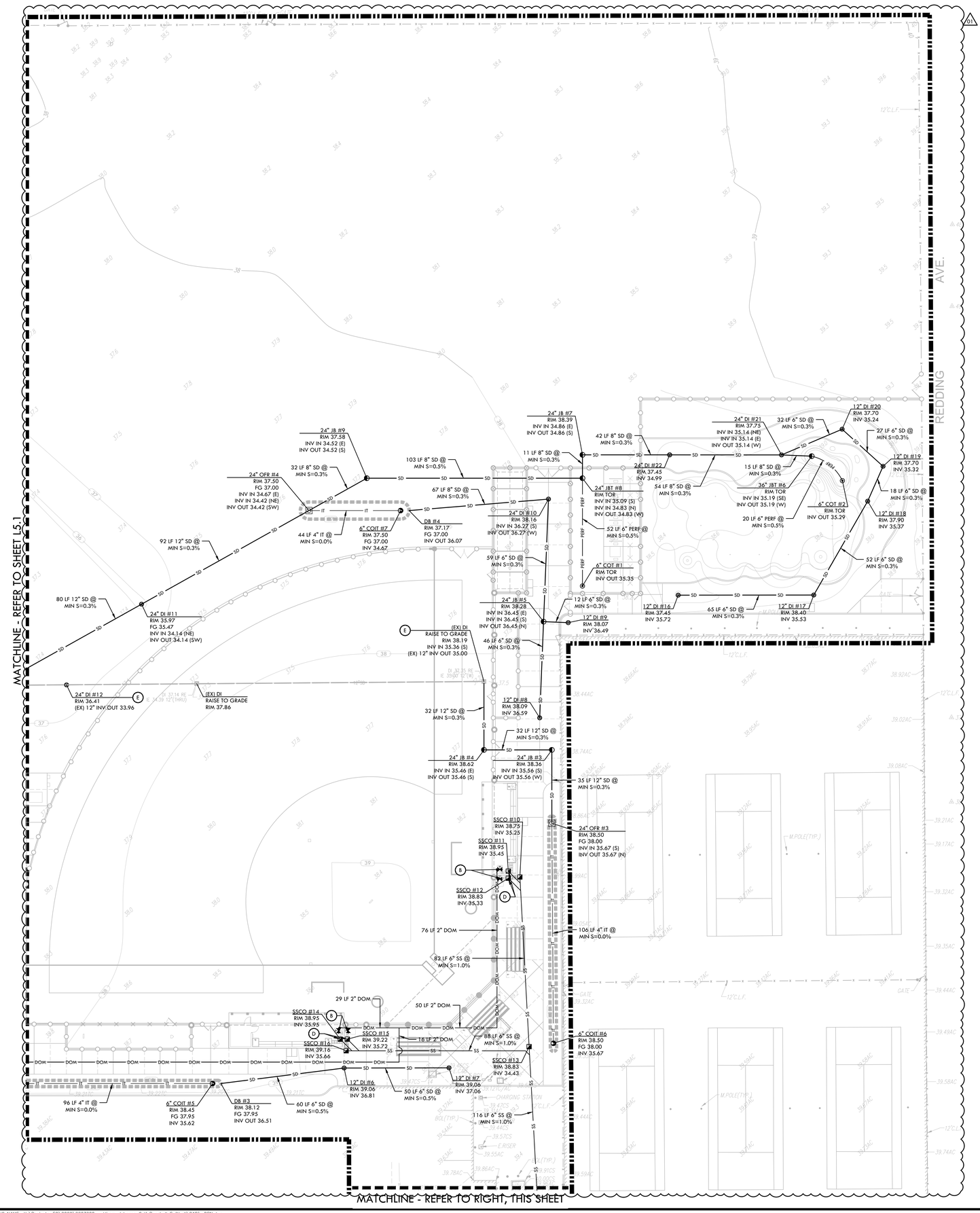
SUBMITTAL	DATE
DD 50% SUBMITTAL	04/15/22
100% DSA SUBMITTAL	05/27/22
DSA BACK CHECK	08/11/22
DSA ADDENDUM SUBMITTAL	09/16/22

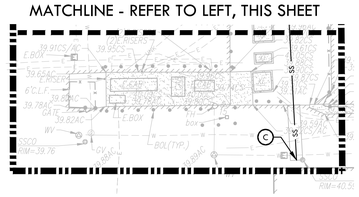
NO.	REVISIONS	DATE
1	ADDENDUM	09/16/22
2		
3		
4		
5		
6		
7		

DRAWN BY	CHECKED BY
DK	MB/CS
DATE ISSUED	SCALE
09/16/2022	1" = 20'-0"
PROJ. NO.	
2203200	
SHEET NO.	
L5.1	

0' 10' 20' 40' 60'

DRAWING NAME: Y:\Projects-FO\2022\2203200 - Hiram Johnson Golf Baseball Softball\CAD_DRN.dwg
PLOT DATE: 09-15-22 PLOTTED BY: station27





DRAINAGE & UTILITY 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 UNDER GROUND 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 THESE CONTRACT DOCUMENTS.
5. THE CONTRACTOR IS TO ENSURE THAT ALL REMAINING ACTIVE AND NEW DRAINAGE AND UTILITY LINES ARE PROTECTED AND UNDAMAGED FROM TRENCHING AND FOOTING EXCAVATIONS FOR NEW FOOTINGS, PARTICULARLY FOR NEW FENCING AND WALLS.
6. ALL ABANDONED STORM LINES SHALL REMAIN IN PLACE UNLESS IN CONFLICT WITH PROPOSED DRAINAGE, UTILITY, OR SUBGRADING OPERATIONS, IN WHICH CASE ABANDONED PIPE IN CONFLICT SHALL BE REMOVED. REMAINING ABANDONED STORM PIPE SHALL BE SEALED WITH APPROPRIATELY SIZED CONCRETE CAP (3 SACK MIX) 6" ENVELOPE OUTSIDE AND INSIDE DIAMETER OF PIPE.
7. PRIOR TO ALL DRAINAGE AND UTILITY WORK, CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL POTENTIAL DRAINAGE CONNECTIONS AND EXISTING UTILITY BY POTHOLING. IN ADDITION, ALL DOWNSTREAM CONNECTIONS TO EXISTING STRUCTURES SHALL BE THE START OF THESE OPERATIONS, AND GRADES SHALL BE VERIFIED.
8. WHEN WORK HAS TO OCCUR UNDER THE DRIPLINE OF EXISTING TREES NOT SCHEDULED FOR REMOVAL, THE CONTRACTOR SHALL USE ALL POSSIBLE CARE TO AVOID INJURY TO THE TREES AND TREE ROOTS. GRADE IN LINES RADIAL TO THE EXISTING TREES RATHER THAN TANGENTIAL. ALL PARTIAL CUTS OR TEARS THROUGH ROOTS TWO INCHES IN DIAMETER AND LARGER SHALL BE CUT CLEAN. TRENCHES ADJACENT TO TREES SHALL BE FILLED WITHIN 24 HOURS AFTER EXCAVATION, BUT WHERE THIS IS NOT POSSIBLE, THE SIDE OF THE TRENCH ADJACENT TO THE TREE, AND ANY EXPOSED ROOTS SHALL BE KEPT SHADED AND MOIST WITH DAMPENED BURLAP OR CANVAS.
9. ALL DRAIN LINES LEAVING COMBOXES, WATER CANNONS AND QUICK COUPLERS SHALL BE DAYLIGHTING TO NEAREST SUBDRAIN TRENCH.

DRAINAGE & UTILITY LEGEND

SYM	DESCRIPTION	DETAIL NUMBER / SHEET NUMBER
	LIMIT OF WORK	
	JUNCTION BOX (JB), SIZE PER PLAN	E D1.1
	JUNCTION BOX IN SYNTHETIC TURF (JBT), SIZE PER PLAN	I D1.1
	STORM DRAIN INLET (DI), SIZE PER PLAN	F D1.1
	SANITARY SEWER CLEANOUT (SSCO), SIZE PER PLAN	H D1.1
	CLEANOUT IN SYNTHETIC TURF (COT), SIZE PER PLAN	E D1.1
	CLEANOUT IN BIORETENTION AREA (COIT), SIZE PER PLAN	A D1.2
	OVERFLOW RISER (OFR) WITH GRATE/STANDPIPE AT BIORETENTION AREA, SIZE PER PLAN	C D1.2
	BOTTOM OF BIORETENTION AREA	D D1.2
SD	SOLID WALL STORM DRAIN, SIZE PER PLAN	B, D D1.1
DOM	DOMESTIC WATER LINE, SIZE PER PLAN	C, D D1.1
SS	SANITARY SEWER LINE, SIZE PER PLAN	B, D D1.1
PERF	PERFORATED SUBDRAIN LINE, SIZE PER PLAN	N D1.1
	DOMESTIC WATER GATE VALVE	A, B D6.1
(E)	EXISTING	
CB	CATCH BASIN	
DB	DRAINAGE BUBBLER	E D1.2
INV	INVERT	
JB	JUNCTION BOX	
RIM	RIM ELEVATION	
LF	LINEAR FEET	
S=0.5%	SLOPE	
MIN.	MINIMUM	
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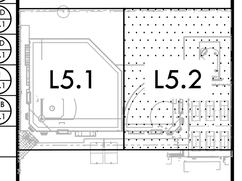
MARK S. BRUNKER
No. 4092
EXPIRATION DATE: JULY 2023
STATE OF CALIFORNIA

CONSULTANT

KEYMAP



SHEET TITLE

DRAINAGE AND UTILITY PLAN - SOFTBALL FIELD AND GOLF

PROJECT NAME

HIRAM JOHNSON HIGH SCHOOL
GOLF PRACTICE FACILITY, VARSITY BASEBALL AND SOFTBALL FIELDS

PROJECT ADDRESS

6879 14TH AVENUE
SACRAMENTO, CA 95820

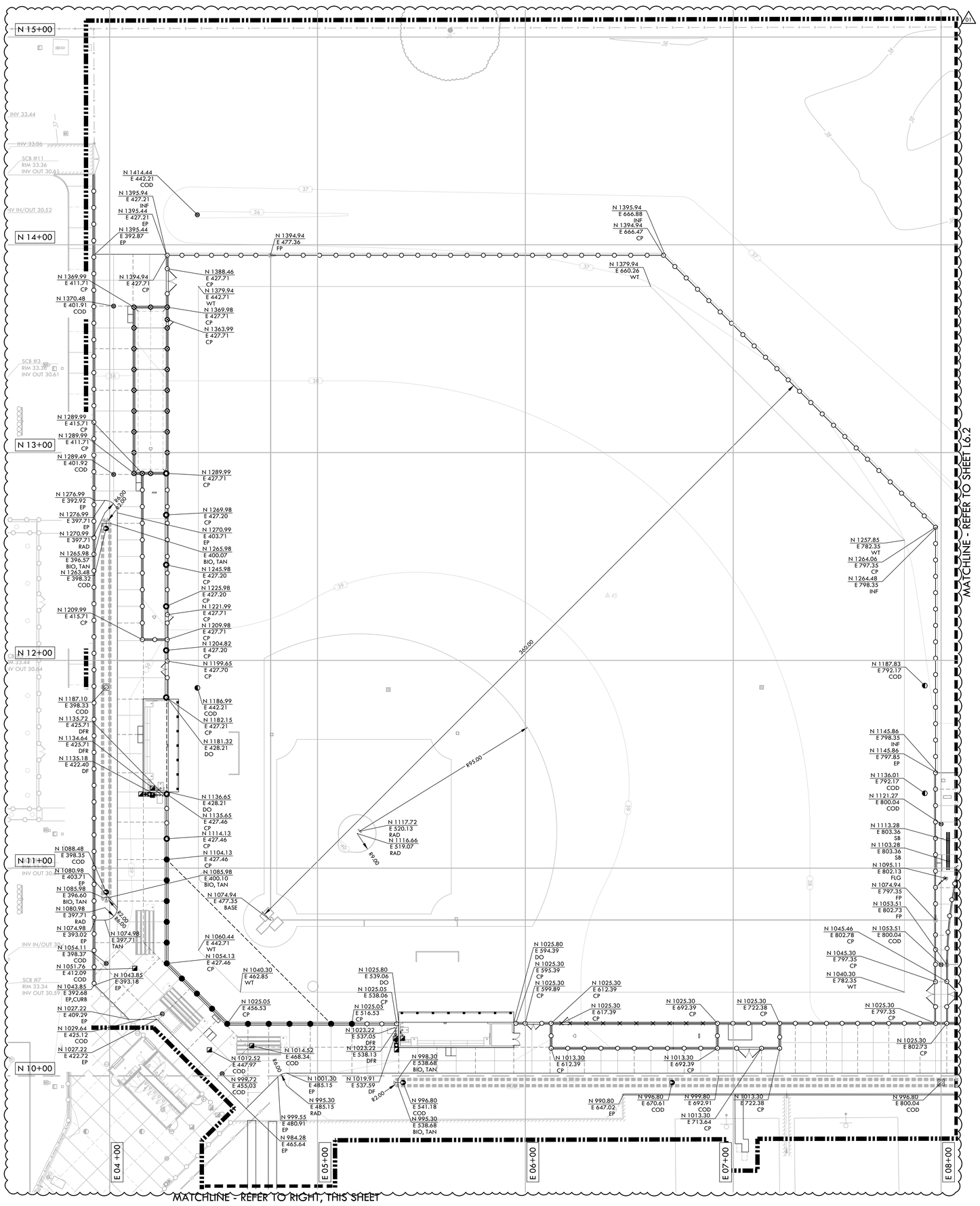
SUBMITTAL	DATE
DD 50% SUBMITTAL	04/15/22
100% DSA SUBMITTAL	05/27/22
DSA BACK CHECK	08/11/22
DSA ADDENDUM SUBMITTAL	09/16/22

NO.	REVISIONS	DATE
1	ADDENDUM	09/16/22

DRAWN BY: DK
CHECKED BY: MB/CS
DATE ISSUED: 09/16/2022
SCALE: 1" = 20'-0"
PROJ. NO.: 2203200
SHEET NO.: L5.2

0' 10' 20' 40' 60'

DRAWING NAME: Y:\Projects-FO\2022\2203200 - Hiram Johnson Golf Baseball Softball\CAD_DRN.dwg
PLOT DATE: 09-15-22 PLOTTED BY: station27



LAYOUT NOTES

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   - 5.1. ELEVATIONS SHOWN HEREON ARE BASED UPON MAG NAIL WITH CITY WASHER IN SIDEWALK JOINT AT 6900 14TH AVENUE, BENCHMARK NO: 318-B2C, ELEVATION 38.544 (NAV088) DATUM.

LAYOUT LEGEND

SYM	DESCRIPTION
POB	POINT OF BEGINNING - LOCATED ON SHEET L6.2
	ANCHOR POINT FOR CONTROL LINE - LOCATED ON SHEET L6.3
R10' R5'	RADIUS POINT / CENTER MARK
90°	PROPOSED ANGLE BETWEEN ELEMENTS
ALIGN	ALIGN EDGES OF ELEMENTS
X'	DISTANCE BETWEEN ELEMENTS
	CENTER LINES
	BASELINE
	CONTROL LINE
N 6+21.95 E 4+97.08	NORTHING/EASTING LAYOUT COORDINATE CALLOUT
COD	CENTER OF DRAINAGE STRUCTURE
CONTROL	CENTER OF CONTROL POINT
CP	CENTER OF POST
CURB	CURB
DO	EDGE OF DUGOUT
DFR	CENTER OF DRINKING FOUNTAIN RAIL
EB	EDGEBAND
EP	EDGE OF PAVEMENT
FP	CENTER OF FOUL POST
FLG	CENTER OF FLAG POST
GC	CENTER OF GOLF CUP
LP	CENTER OF LIGHT POLE
POB	POINT OF BEGINNING FOR GRID LAYOUT
RAD	RADIUS POINT
SB	CENTER OF SCOREBOARD FOOTING
TAN	TANGENT POINT
WT	EDGE OF WARNING TRACK

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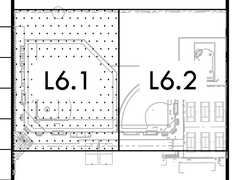
No. 4069
EXPIRATION DATE: JULY 2023
STATE OF CALIFORNIA

CONSULTANT

KEYMAP



SHEET TITLE

LAYOUT
PLAN -
BASEBALL FIELD

PROJECT NAME

HIRAM JOHNSON
HIGH SCHOOL
GOLF PRACTICE FACILITY,
VARSITY BASEBALL AND
SOFTBALL FIELDS

PROJECT ADDRESS

6879 14TH AVENUE
SACRAMENTO, CA 95820

SUBMITTAL	DATE
DD 50% SUBMITTAL	04/15/22
100% DSA SUBMITTAL	05/27/22
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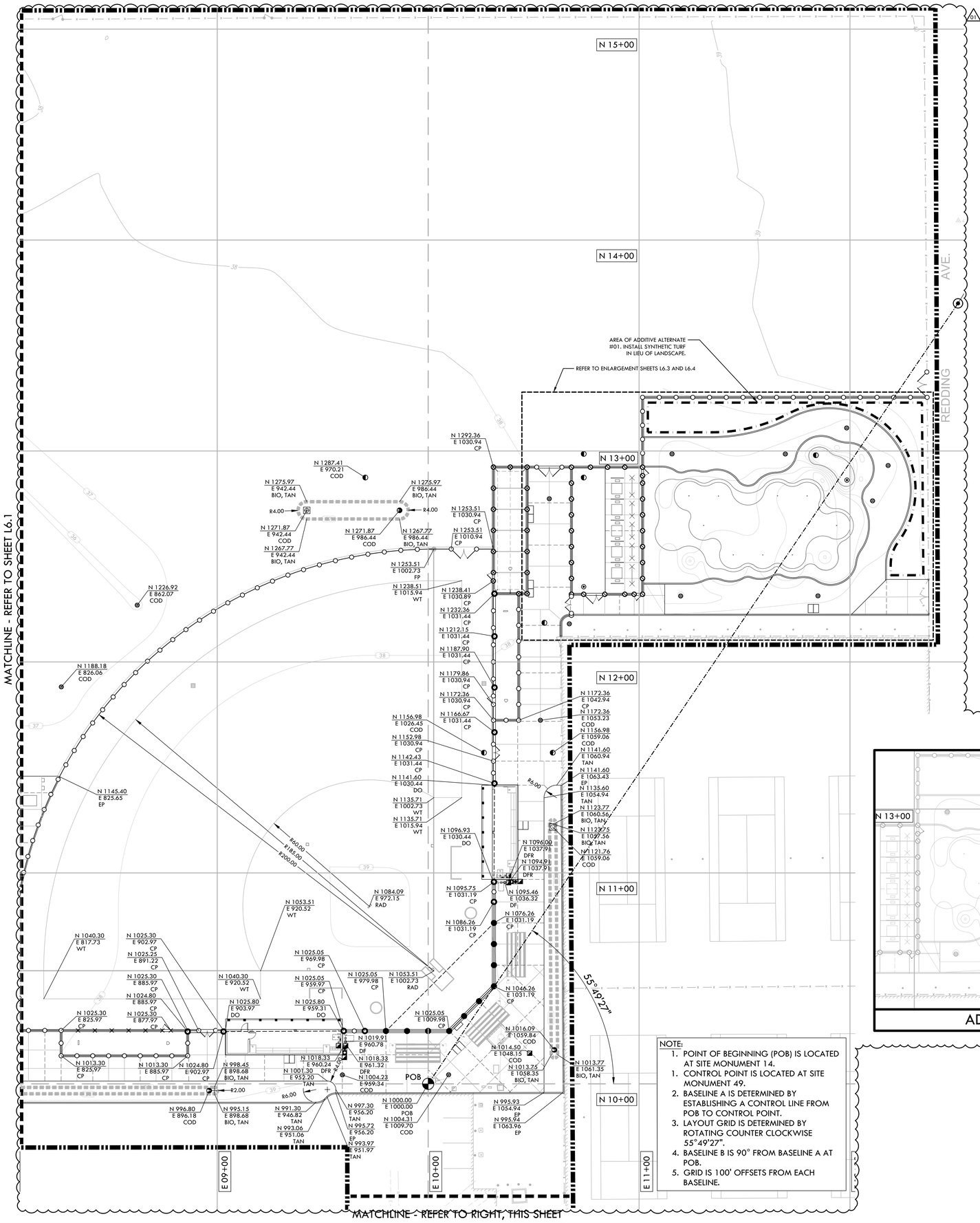
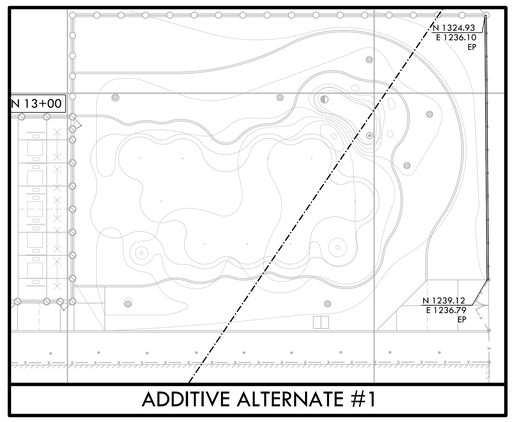
DRAWN BY	CHECKED BY
AC	MB/CS
DATE ISSUED	SCALE
09/16/2022	1"=20'-0"
PROJ. NO.	
2203200	
SHEET NO.	
L6.1	

NORTH
0' 10' 20' 40' 60'

DRAWING NAME: V:\Projects-FO\2022\2203200 - Hiram Johnson Golf Baseball Softball\CAD_LAY-C3D.dwg
PLOT DATE: 09-15-22 PLOTTED BY: station27





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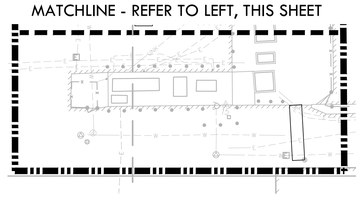

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LAYOUT LEGEND

SYM	DESCRIPTION
POB	POINT OF BEGINNING - LOCATED ON SHEET L6.2
	ANCHOR POINT FOR CONTROL LINE - LOCATED ON SHEET L6.3
R10' R90°	RADIUS POINT / CENTER MARK
90°	PROPOSED ANGLE BETWEEN ELEMENTS
ALIGN	ALIGN EDGES OF ELEMENTS
X'	DISTANCE BETWEEN ELEMENTS
	CENTER LINES
	BASELINE
	CONTROL LINE
N 6+21.95 E 4+97.08	NORTHING/EASTING LAYOUT COORDINATE CALLOUT
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CONTROL	CENTER OF CONTROL POINT
CP	CENTER OF POST
CURB	CURB
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GC	CENTER OF GOLF CUP
LP	CENTER OF LIGHT POLE
POB	POINT OF BEGINNING FOR GRID LAYOUT
RAD	RADIUS POINT
SB	CENTER OF SCOREBOARD FOOTING
TAN	TANGENT POINT
WT	EDGE OF WARNING TRACK

NORTH

0' 10' 20' 40' 60'

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No. 4098
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CONSULTANT

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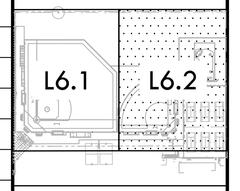

SHEET TITLE

LAYOUT PLAN - SOFTBALL FIELD AND GOLF

PROJECT NAME

HIRAM JOHNSON HIGH SCHOOL GOLF PRACTICE FACILITY, VARSITY BASEBALL AND SOFTBALL FIELDS

PROJECT ADDRESS

6879 14TH AVENUE SACRAMENTO, CA 95820

SUBMITTAL	DATE
DD 50% SUBMITTAL	04/15/22
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DRAWN BY	CHECKED BY
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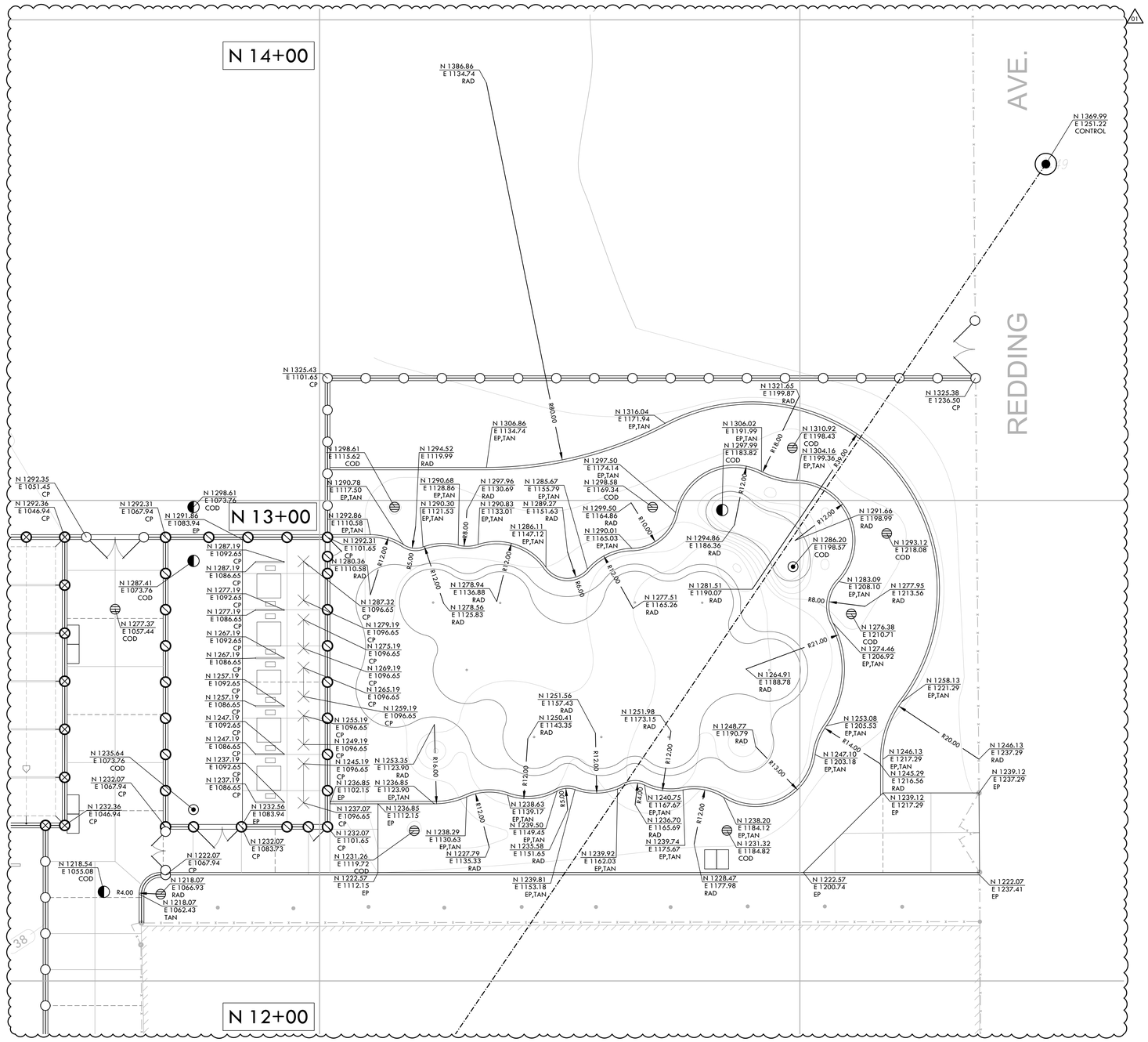
09/16/2022	1"=20'-0"

PROJ. NO. 2203200

SHEET NO. L6.2

DRAWING NAME: Y:\Projects-FO\2022\2203200 - Hiram Johnson Golf Baseball Softball\CAD_LAY-C3D.dwg
PLOT DATE: 09-15-22 PLOTTED BY: station27



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0' 5' 10' 20' 30'

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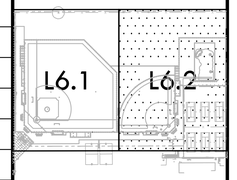

SHEET TITLE

LAYOUT PLAN - GOLF ENLARGEMENT

PROJECT NAME

HIRAM JOHNSON HIGH SCHOOL GOLF PRACTICE FACILITY, VARSITY BASEBALL AND SOFTBALL FIELDS

PROJECT ADDRESS

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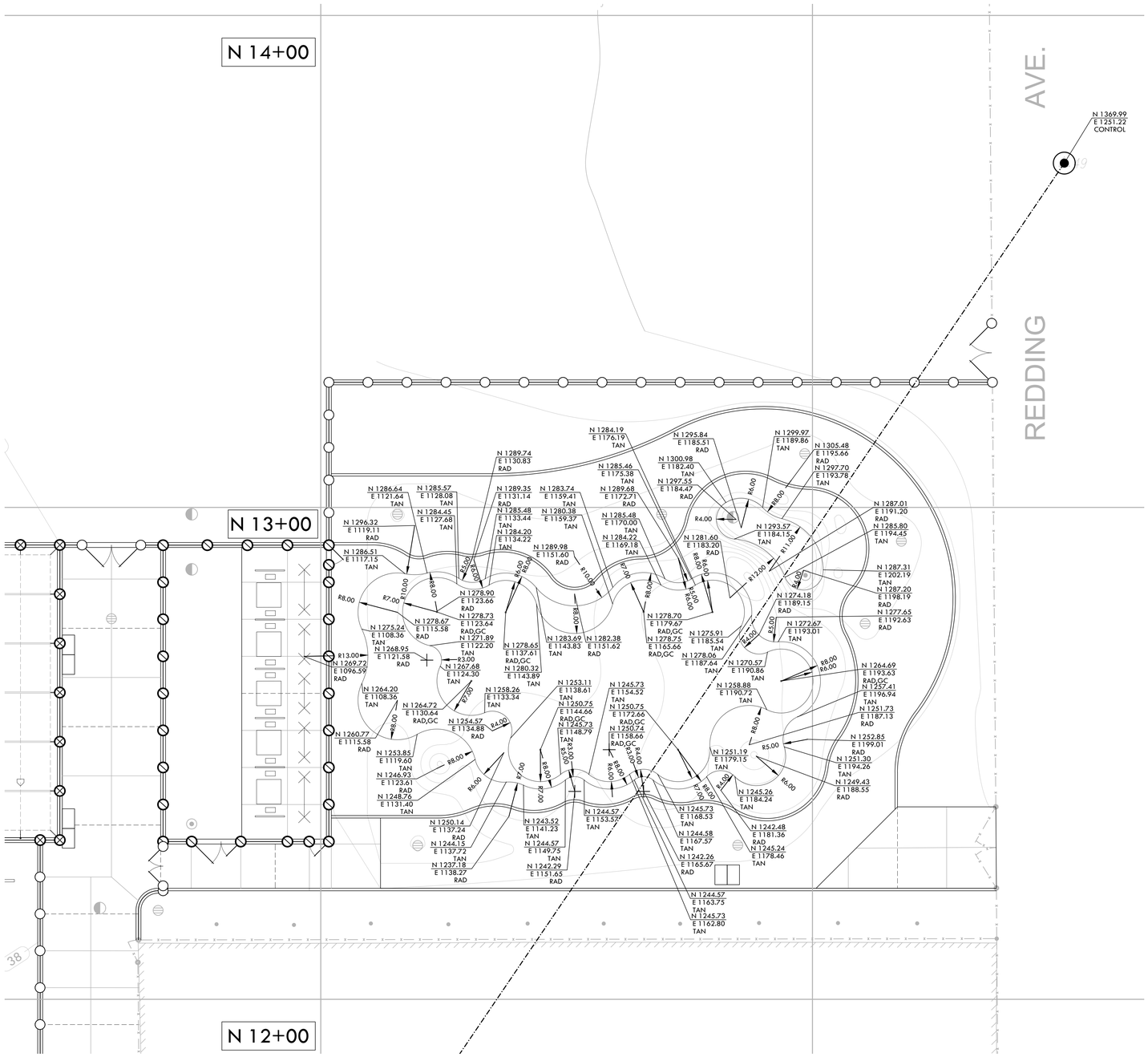
SHEET NO.	
L6.3	

DRAWING NAME: Y:\Projects-FO\2022\2203200 - Hiram Johnson Golf Baseball Softball\CAD_LAY-C3D.dwg
PLOT DATE: 09-15-22 PLOTTED BY: station27



LAYOUT NOTES

1. THE CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION ELEMENTS INCLUDING UTILITY LOCATIONS AND REQUIRED SLEEVING PRIOR TO INSTALLATION. VERIFY CRITICAL DIMENSIONS, REFERENCE POINT LOCATIONS AND CONSTRUCTION CONDITIONS PRIOR TO INITIATING CONSTRUCTION. TEMPORARY BENCHMARKS OR REFERENCE POINTS SHALL BE SET BY THE CONTRACTOR AS NECESSARY. NOTIFY THE OWNER'S REPRESENTATIVE IMMEDIATELY SHOULD DISCREPANCY ARISE AND REDIRECT WORK TO AVOID DELAYS.
2. ALL DIMENSIONS SHALL BE VERIFIED IN FIELD AND CHALKED, STRING LINED OR FLAGGED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. ANY MINOR ADJUSTMENTS MADE TO ACHIEVE OVERALL DESIGN LAYOUT SHALL BE ACCEPTED BY THE OWNER PRIOR TO CONSTRUCTION.
3. LAYOUT IS BASED ON THE POINT(S) OF BEGINNING (P.O.B.) AND BASELINE(S) OR GRID SYSTEM AS SHOWN. DIMENSIONS SHOWN ARE ROUNDED TO THE NEAREST INCH.
4. ALL LAYOUT AND GRADES SHALL BE COMPLETED BY A LICENSED SURVEYOR.
5. SURVEY PROVIDED BY: WARREN CONSULTING ENGINEERS, INC. (FIELD COMPLETION DATE: 02/25/22, FINAL ISSUED DATE: 02/28/22)
   - 5.1. ELEVATIONS SHOWN HEREON ARE BASED UPON MAG NAIL WITH CITY WASHER IN SIDEWALK JOINT AT 6900 14TH AVENUE, BENCHMARK NO: 318-B2C, ELEVATION 38.544 (NAV088) DATUM.

LAYOUT LEGEND

SYM	DESCRIPTION
POB	POINT OF BEGINNING - LOCATED ON SHEET L6.2
	ANCHOR POINT FOR CONTROL LINE - LOCATED ON SHEET L6.3
R10'	RADIUS POINT / CENTER MARK
90°	PROPOSED ANGLE BETWEEN ELEMENTS
ALIGN	ALIGN EDGES OF ELEMENTS
X"	DISTANCE BETWEEN ELEMENTS
	CENTER LINES
	BASELINE
	CONTROL LINE
N 6+21.95 E 4+97.08	NORTHING/EASTING LAYOUT COORDINATE CALLOUT
COD	CENTER OF DRAINAGE STRUCTURE
CONTROL	CENTER OF CONTROL POINT
CP	CENTER OF POST
CURB	CURB
DO	EDGE OF DUGOUT
DFR	CENTER OF DRINKING FOUNTAIN RAIL
EB	EDGEBAND
EP	EDGE OF PAVEMENT
FP	CENTER OF FOUL POST
FLG	CENTER OF FLAG POST
GC	CENTER OF GOLF CUP
LP	CENTER OF LIGHT POLE
POB	POINT OF BEGINNING FOR GRID LAYOUT
RAD	RADIUS POINT
SB	CENTER OF SCOREBOARD FOOTING
TAN	TANGENT POINT
WT	EDGE OF WARNING TRACK

NORTH

0' 5' 10' 20' 30'

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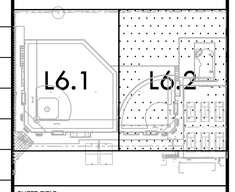
Folsom, CA 95630
tel: 916.415.6554
fax: 916.415.6525
www.VerdeDesigninc.com

STAMP

REGISTERED LANDSCAPE ARCHITECT
MARK S. BRAUNER
No. 4069
EXPIRATION DATE: JULY 2023
STATE OF CALIFORNIA

CONSULTANT

KEYMAP



SHEET TITLE

LAYOUT
PLAN -
GOLF ENLARGEMENT

PROJECT NAME

HIRAM JOHNSON
HIGH SCHOOL
GOLF PRACTICE FACILITY,
VARSITY BASEBALL AND
SOFTBALL FIELDS

PROJECT ADDRESS

6879 14TH AVENUE
SACRAMENTO, CA 95820

SUBMITTAL	DATE
DD 50% SUBMITTAL	04/15/22
100% DSA SUBMITTAL	05/27/22
DSA BACK CHECK	08/11/22
DSA ADDENDUM SUBMITTAL	09/16/22

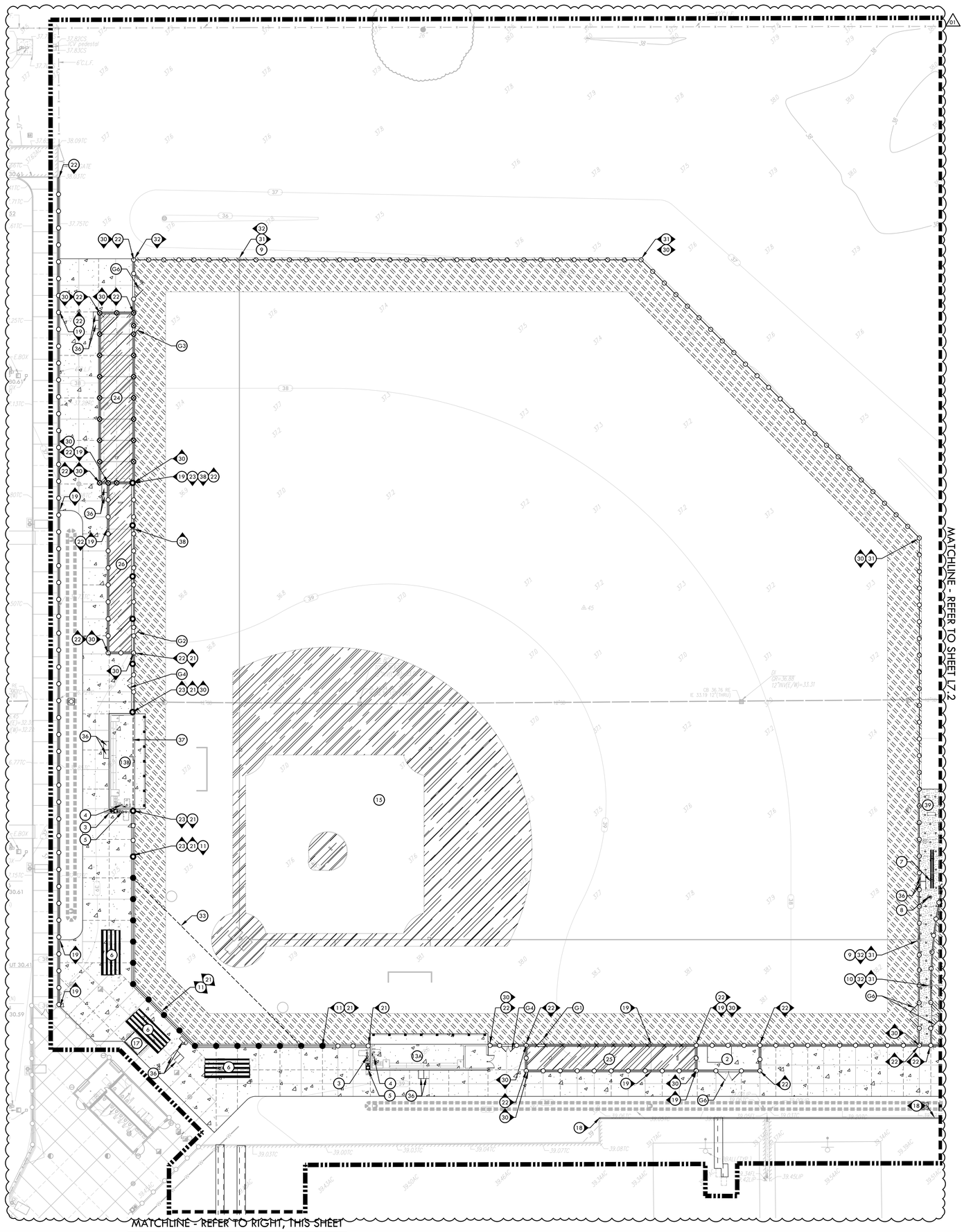
NO.	REVISIONS	DATE
1	ADDENDUM	09/16/22
2		
3		
4		
5		
6		

DRAWN BY	CHECKED BY
AC	MB/CS
DATE ISSUED	SCALE
09/16/2022	1"=10'-0"

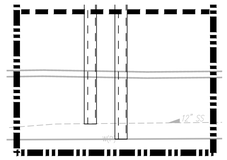
PROJ. NO. 2203200

SHEET NO. L6.4

DRAWING NAME: Y:\Projects-FO\2022\2203200 - Hiram Johnson Golf Baseball Softball\CAD_LAY-C3D.dwg
PLOT DATE: 09-15-22 PLOTTED BY: station27



MATCHLINE - REFER TO LEFT, THIS SHEET



MATERIAL LEGEND

SYM	DESCRIPTION	DTL REF
19	12" WIDE TALL CURB	C D2.1
20	NOT USED	
21	18" EDGEBAND WITH FENCE	G D2.1
22	12" EDGEBAND WITH FENCE	F D2.1
23	24' TALL PROTECTIVE NETTING OVER 6' FENCE	G D3.2
24	BASEBALL BATTING CAGE	E D4.2
25	BASEBALL BULLPEN (1ST BASE)	A D4.3
26	BASEBALL BULLPEN (3RD BASE)	G D4.3
27	SOFTBALL BULLPEN (1ST BASE)	A D4.5
28	SOFTBALL BULLPEN (3RD BASE)	H D4.5
29	SOFTBALL BATTING CAGE	E D4.4
30	FENCE WITH SLATS	
31	FENCE CAP - YELLOW. REFER TO SPECIFICATIONS	
32	FENCE CAP - BLACK. REFER TO SPECIFICATIONS	
33	BACKSTOP NET HOOD LIMITS (OPTIONAL)	
34	GOLF PUTTING GREEN	H D5.1
35	GOLF DRIVING RANGE	A D5.1
36	ELECTRICAL PULL/SIGNAL BOX. REFER TO ELECTRICAL DRAWINGS.	
37	SAFETY NETTING OVER DUGOUT	A/B D3.1
38	18" WIDE TALL CURB	R D2.1
39	IRRIGATION EQUIPMENT. REFER TO IRRIGATION PLAN FOR ADDITIONAL INFORMATION.	

MATERIAL NOTES

1. THE CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION ELEMENTS INCLUDING UTILITY LOCATIONS AND REQUIRED SLEEVING PRIOR TO INSTALLATION. VERIFY CRITICAL DIMENSIONS, REFERENCE POINT LOCATIONS AND CONSTRUCTION CONDITIONS PRIOR TO INITIATING CONSTRUCTION. TEMPORARY BENCHMARKS OR REFERENCE POINTS SHALL BE SET BY THE CONTRACTOR AS NECESSARY. NOTIFY THE OWNER'S REPRESENTATIVE IMMEDIATELY SHOULD DISCREPANCY ARISE AND REDIRECT WORK TO AVOID DELAYS.
2. THE INTERFACE OF ALL PROPOSED IMPROVEMENTS TO EXISTING SITE SHALL CONFORM AND BE SMOOTH AND UNIFORM.
3. ALL REINFORCING AND FORMS SHALL BE SECURED IN PLACE AND ACCEPTED BY OWNER'S REPRESENTATIVE PRIOR TO PLACING ANY CONCRETE.
4. CONCRETE FINISHES SHALL BE AS NOTED. CONTRACTOR SHALL PROVIDE 4'X4' SAMPLES OF ALL SPECIFIED FINISHES OF CONCRETE USING THE SAME MATERIALS THAT WILL BE USED IN THE ACTUAL CONSTRUCTION FOR EACH TYPE SPECIFIED. SAMPLES SHALL BE PREPARED WELL ENOUGH IN ADVANCE OF SCHEDULED CONCRETE POUR TO ALLOW FOR REVIEW AND POSSIBLE RE-POURING OF UNACCEPTABLE SAMPLES. UNACCEPTABLE SAMPLES SHALL BE RE-PREPARED UNTIL ACCEPTED BY THE OWNER'S REPRESENTATIVE. ACCEPTED SAMPLES SHALL BE PROTECTED AND REMAIN ON SITE FOR REFERENCE UNTIL FINAL ACCEPTANCE.
5. ALL FENCES AND GATES SHOWN ON PLAN ARE GRAPHIC REPRESENTATIONS, REFER TO DETAILS AND SPECIFICATIONS FOR PRECISE LOCATION.
6. ASPHALT SHALL NOT BE INSTALLED UNTIL ALL EDGES AND SITE FURNISHING PADS ARE INSTALLED.

MATERIAL LEGEND

SYM	DESCRIPTION	DTL REF
	LIMIT OF WORK	
	CONCRETE PAVING - CHEMICALLY TREATED - PEDESTRIAN	A D2.1
	CONCRETE PAVING - NON CHEMICALLY TREATED - PEDESTRIAN	B D2.1
	ASPHALT PAVING - NON CHEMICALLY TREATED - VEHICULAR	P/Q D2.1
	INFIELD FINES	F D4.1
	WARNING TRACK FINES	I D4.1
	NOT USED	
	SYNTHETIC TURF AT GOLF	C D5.1
	EXPANSION JOINT SCORE JOINT	E D2.1
	42" CHAIN LINK FENCE	E D3.1
	GUARD RAIL SYSTEM	H D3.2
	6' CHAIN LINK FENCE	F D3.1
	NOT USED	
	14' CHAIN LINK FENCE	H D3.1
	16' CHAIN LINK FENCE	I D3.1
	30' CHAIN LINK BACKSTOP	J D3.1 A,B D3.3
	24' PROTECTIVE NETTING OVER 6' TALL CHAIN LINK FENCE	G D3.2
G1	42" TALL X 4' WIDE CHAIN LINK SWING GATE - ACCESSIBLE	K D3.1
G2	6' TALL X 4' WIDE CHAIN LINK SWING GATE - ACCESSIBLE	M D3.1
G3	8' TALL X 4' WIDE CHAIN LINK SWING GATE WITH TRANSOM - ACCESSIBLE	L D3.1
G4	6' TALL X 8' WIDE CHAIN LINK DOUBLE SWING GATE	O D3.1
G5	8' TALL X 10' WIDE DOUBLE SWING GATE - MIXED LEAF WITH TRANSOM	A D3.3
G6	6' TALL X 12' WIDE CHAIN LINK DOUBLE SWING GATE	M D3.2
1	SYNTHETIC TURF CONNECTION	C D5.1
2	ELECTRICAL EQUIPMENT CONCRETE PAD (REFER TO ELECTRICAL PLANS FOR ADDITIONAL INFORMATION).	
3	DRINKING FOUNTAIN	H D1.1
4	DRINKING FOUNTAIN IN DUGOUT	M D1.1
5	TRASH AND RECYCLING RECEPTACLE	K D2.1
6	PORTABLE BLEACHERS - 4 ROW. REFER TO SPECIFICATIONS	
7	SCOREBOARD. REFER TO STRUCTURAL DRAWINGS AND NEVCO PC DRAWINGS FOR ADDITIONAL INFORMATION.	
8	FLAG POLE, REFER TO STRUCTURAL DRAWINGS AND SPECIFICATIONS	
9	FOUL POLE AT BASEBALL	G D4.1
10	FOUL POLE AT SOFTBALL	G D4.1
11	BASEBALL BACKSTOP - WITH OPTIONAL NET HOOD, ALSO REFER TO STRUCTURAL DRAWINGS	A D3.3
12	SOFTBALL BACKSTOP - WITH OPTIONAL NET HOOD, ALSO REFER TO STRUCTURAL DRAWINGS	B D3.3
13A	BASEBALL DUGOUT - 1ST BASE SIDE (HOME). REFER TO SHEET D4.6	
13B	BASEBALL DUGOUT - 3RD BASE SIDE (VISITOR). REFER TO SHEET D4.7	
14A	SOFTBALL DUGOUT - 3RD BASE SIDE (HOME). REFER TO SHEET D4.9	
14B	SOFTBALL DUGOUT - 1ST BASE SIDE (VISITOR). REFER TO SHEET D4.8	
15	BASEBALL INFIELD	A D4.2
16	SOFTBALL INFIELD	A D4.4
17	ELEVATED SCORER'S TABLE (SPORTSFIELD SPECIALTIES MODEL #ST8 CUSTOM FAIR OAKS OR APPROVED EQUAL. ANY DEVIATION COORDINATE SIZE AND LOCATION)	
18	6" WIDE EDGEBAND	M D2.1

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REGISTERED LANDSCAPE ARCHITECT
MARK S. BRUNKER
No. 4092
EXPIRATION DATE: JULY 2023
STATE OF CALIFORNIA

CONSULTANT

KEYMAP

SHEET TITLE

MATERIAL AND DETAIL REFERENCE PLAN - BASEBALL FIELD

PROJECT NAME

HIRAM JOHNSON HIGH SCHOOL GOLF PRACTICE FACILITY, VARSITY BASEBALL AND SOFTBALL FIELDS

PROJECT ADDRESS

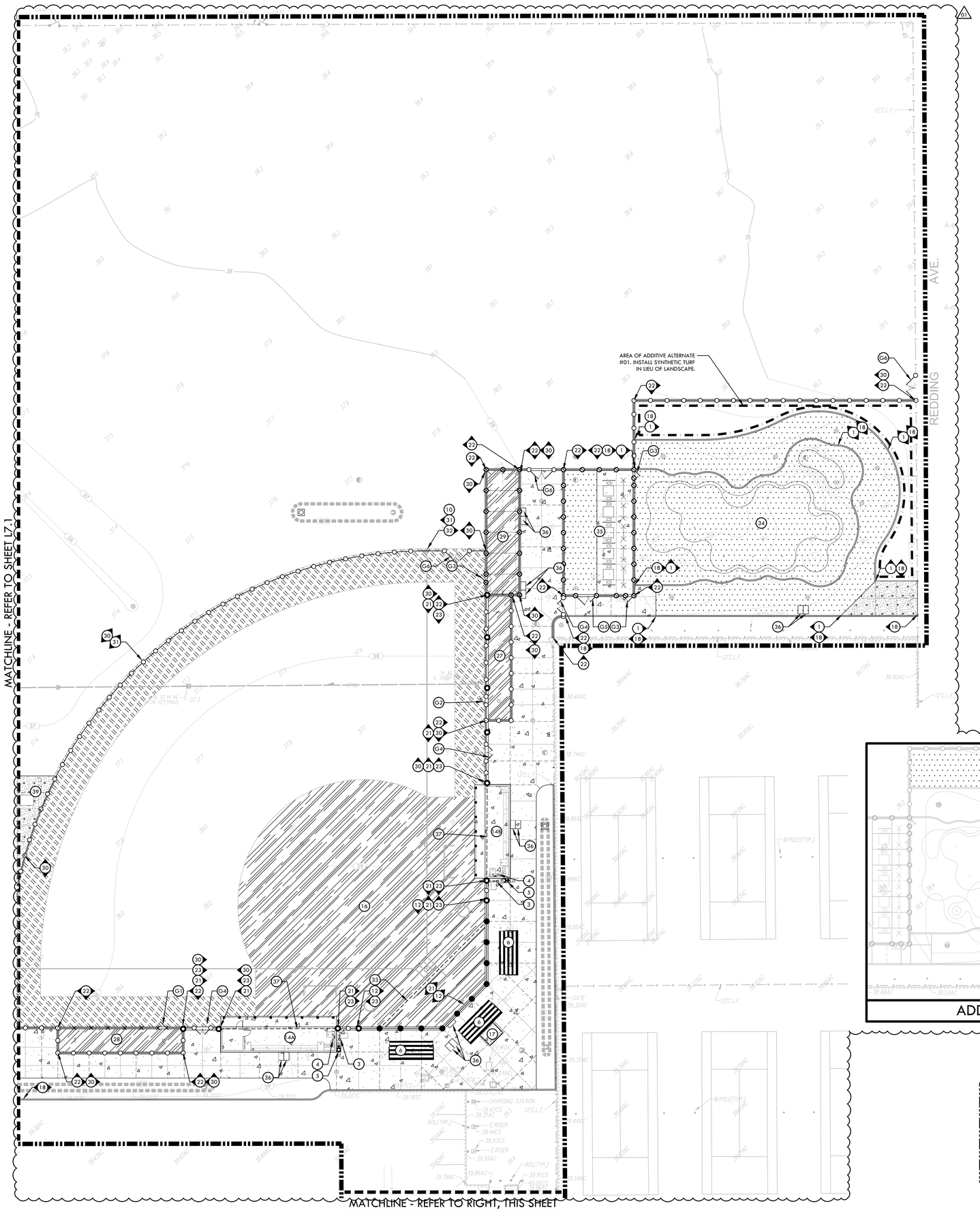
6879 14TH AVENUE
SACRAMENTO, CA 95820

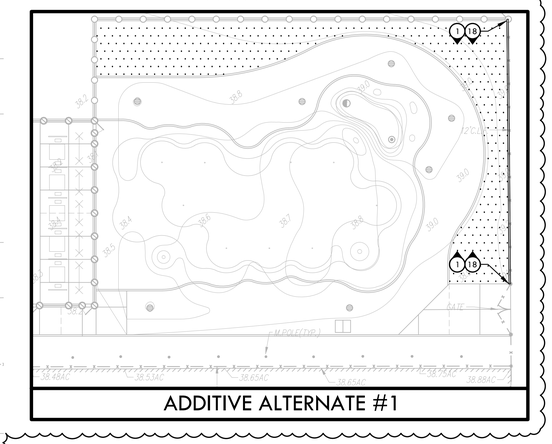
SUBMITTAL	DATE
DD 50% SUBMITTAL	04/15/22
100% DSA SUBMITTAL	05/27/22
DSA BACK CHECK	08/11/22
DSA ADDENDUM SUBMITTAL	09/16/22

NO.	REVISIONS	DATE
1	ADDENDUM	09/16/22

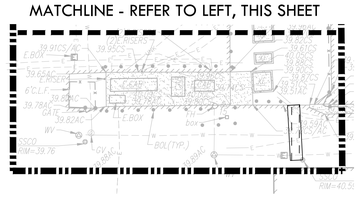
DRAWN BY	CHECKED BY
JC	MB/CS
DATE ISSUED	SCALE
09/16/2022	
PROJ. NO.	
2203200	
SHEET NO.	
L7.1	

NORTH
0' 10' 20' 40' 80'





ADDITIVE ALTERNATE #1



MATERIAL LEGEND

SYM	DESCRIPTION	DTL REF
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20	NOT USED	
21	18" EDGEBAND WITH FENCE	G D2.1
22	12" EDGEBAND WITH FENCE	F D2.1
01 23	24' TALL PROTECTIVE NETTING OVER 6' FENCE	Q D3.2
24	BASEBALL BATTING CAGE	E D4.2
01 25	BASEBALL BULLPEN (1ST BASE)	A D4.5
26	BASEBALL BULLPEN (3RD BASE)	G D4.5
01 27	SOFTBALL BULLPEN (1ST BASE)	A D4.5
28	SOFTBALL BULLPEN (3RD BASE)	H D4.5
29	SOFTBALL BATTING CAGE	E D4.4
30	FENCE WITH SLATS	
31	FENCE CAP - YELLOW. REFER TO SPECIFICATIONS	
32	FENCE CAP - BLACK. REFER TO SPECIFICATIONS	
33	BACKSTOP NET HOOD LIMITS (OPTIONAL)	
34	GOLF PUTTING GREEN	H D5.1
35	GOLF DRIVING RANGE	A D5.1
36	ELECTRICAL PULL/SIGNAL BOX. REFER TO ELECTRICAL DRAWINGS.	
37	SAFETY NETTING OVER DUGOUT	A/B D3.1
38	18" WIDE TALL CURB	R D2.1
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MATERIAL LEGEND

SYM	DESCRIPTION	DTL REF
	LIMIT OF WORK	
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	CONCRETE PAVING - NON CHEMICALLY TREATED - PEDESTRIAN	B D2.1
	ASPHALT PAVING - NON CHEMICALLY TREATED - VEHICULAR	P/Q D2.1
	INFIELD FINES	F D4.1
	WARNING TRACK FINES	I D4.1
	NOT USED	
	SYNTHETIC TURF AT GOLF	C D5.1
	EXPANSION JOINT SCORE JOINT	E D2.1
	42" CHAIN LINK FENCE	E D3.1
	GUARD RAIL SYSTEM	H D3.2
	6' CHAIN LINK FENCE	F D3.1
	NOT USED	
	14' CHAIN LINK FENCE	H D3.1
	16' CHAIN LINK FENCE	I D3.1
	30' CHAIN LINK BACKSTOP	J D3.1 — A,B D3.3
	24' PROTECTIVE NETTING OVER 6' TALL CHAIN LINK FENCE	Q D3.2
G1	42" TALL X 4' WIDE CHAIN LINK SWING GATE - ACCESSIBLE	K D3.1
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G3	8' TALL X 4' WIDE CHAIN LINK SWING GATE WITH TRANSOM - ACCESSIBLE	L D3.1
G4	6' TALL X 8' WIDE CHAIN LINK DOUBLE SWING GATE	O D3.1
G5	8' TALL X 10' WIDE DOUBLE SWING GATE - MIXED LEAF WITH TRANSOM	A D3.2
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01 3A	BASEBALL DUGOUT - 1ST BASE SIDE (HOME). REFER TO SHEET D4.6	
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18	6" WIDE EDGEBAND	M D2.1

NORTH

0' 10' 20' 40' 80'

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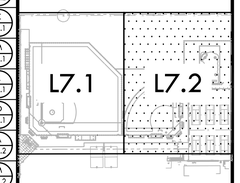
MARK S. BRAUNER
No. 4098
EXPIRATION DATE: JULY 2023
STATE OF CALIFORNIA

CONSULTANT

KEYMAP



SHEET TITLE

MATERIAL AND DETAIL REFERENCE PLAN - SOFTBALL FIELD AND GOLF

PROJECT NAME

HIRAM JOHNSON HIGH SCHOOL GOLF PRACTICE FACILITY, VARSITY BASEBALL AND SOFTBALL FIELDS

PROJECT ADDRESS

6879 14TH AVENUE SACRAMENTO, CA 95820

SUBMITTAL	DATE
DD 50% SUBMITTAL	04/15/22
100% DSA SUBMITTAL	05/27/22
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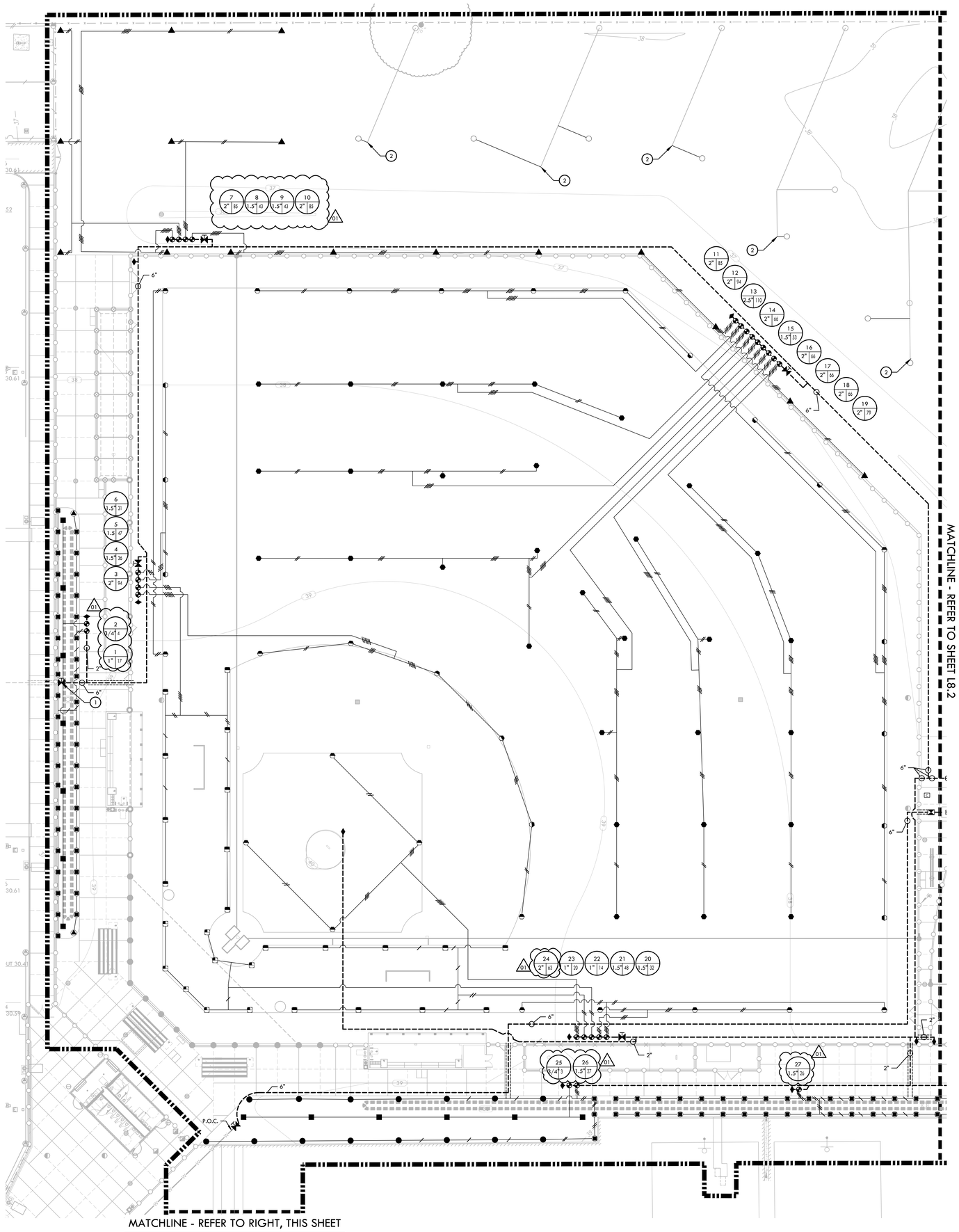
1	ADDENDUM	09/16/22

DRAWN BY	CHECKED BY
JC	MB/CS
DATE ISSUED 09/16/2022	SCALE
PROJ. NO. 2203200	
SHEET NO. L7.2	

DRAWING NAME: Y:\Projects-FO\2022\2203200 - Hiram Johnson Golf Baseball Softball\CAD_mat.dwg
PLOT DATE: 09-15-22 PLOTTED BY: station27



IRRIGATION NOTES

1. THE SYSTEM IS DESIGNED TO OPERATE AT A MAXIMUM FLOW OF 325 GPM WITH A MAXIMUM 65 STATIC PSI AT THE IRRIGATION BOOSTER PUMP. CONTRACTOR SHALL VERIFY PRESSURE PRIOR TO BEGINNING WORK. CONTACT OWNER IMMEDIATELY SHOULD DISCREPANCY ARISE AND REDIRECT WORK TO AVOID DELAY.
2. ALL WORK SHALL CONFORM TO LOCAL AND STATE CODES AND ORDINANCES. ALL IRRIGATION WORK SHALL CONFORM TO THE LANDSCAPE SECTION OF THE STANDARD PLAN DETAILS FOR PUBLIC WORKS CONSTRUCTION. PROJECT AND DETAILS AND SPECIFICATIONS SHALL TAKE PRECEDENCE OVER STANDARD PLAN DETAILS.
3. ALL PLASTIC FITTINGS SHALL BE A MINIMUM OF 18" APART TO FACILITATE REMOVAL AND REPLACEMENT OF INDIVIDUAL FITTINGS. TRENCHING DEPTHS OF POTABLE WATER MAIN SHALL BE 24". ALL MAINS, LATERALS AND CONTROL WIRES SHALL BE INSTALLED IN SCHEDULE 40 PURPLE P.V.C. SLEEVES (OF APPROPRIATE SIZE) UNDER ALL A.C. AND P.C.C. PAVEMENT.
4. IRRIGATION SYSTEM DESIGN IS DIAGRAMMATIC. WHERE PIPING, VALVES, QUICK COUPLERS, ETC. ARE SHOWN OUTSIDE FIELD, OR LIMIT OF WORK; INTENT IS FOR PIPING, VALVES, ETC., TO BE INSTALLED WITHIN FIELD AREAS OF PROPERTY. INDICATE EXACT LOCATIONS OF IRRIGATION EQUIPMENT ON RECORD DRAWINGS.
5. CONTRACTOR SHALL ADJUST IRRIGATION HEADS FOR OPTIMUM COVERAGE WHILE REDUCING OVER SPRAY ONTO WALKWAYS AND ADJACENT STRUCTURES. VALVES SHALL BE ADJUSTED TO AVOID MISTING AS APPLICABLE. CONTRACTOR SHALL MAKE MINOR ADJUSTMENTS TO HEAD LOCATIONS IN FIELD AS NECESSARY ONLY WITH THE APPROVAL OF THE CITY ENGINEER.
6. CONTRACTOR SHALL REFER TO DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.

IRRIGATION AND CONDUIT LEGEND

SYM.	MANUF.	MODEL NO./ DESCRIPTION	DSGN. RAD.	PSI	GPM	DTL REF.
●	HUNTER	I-50-06-SS-ON-15 DUAL OPPOSING NOZZLE	40'-50'	60	13.2	
◓	HUNTER	I-50-06-SS-15 ADJUSTABLE SPRAY NOZZLE	40'-50'	60	15.7	
▲	HUNTER	I-50-06-SS-23 ADJUSTABLE SPRAY NOZZLE	52'	60	21.3	G D6.2
◓	HUNTER	I-20-06-SS-MPR35 ADJUSTABLE SPRAY NOZZLE	30'	55	2.13-8.43	
◩	HUNTER	I-20-06-SS-MPR25 ADJUSTABLE SPRAY NOZZLE	20'	55	1.11-4.25	
◭	HUNTER	PROS-06-PRS40-CV W/ MP800SR ROTATOR NOZZLES	8'	40	0.23-0.78	
◙	HUNTER	PROS-06-PRS40-CV W/ MP1000 ROTATOR NOZZLES	12'	40	0.21-0.84	H D6.2
◉	HUNTER	PROS-06-PRS40-CV W/ MP2000 ROTATOR NOZZLES	16'	40	0.43-1.48	
●	HUNTER	PROS-06-PRS40-CV W/ MP3000 ROTATOR NOZZLES	25'	40	0.86-3.64	
■	HUNTER	18" ROOT ZONE WATERING SYSTEM RZWS-18-50-CV	-	40	0.50	M D6.2
○	-	EXISTING HEAD ADJUSTED/RELOCATED. CONTRACTOR SHALL BE RESPONSIBLE PIPE HEAD BACK TO ZONE AND ENSURE PROPER HEAD-TO-HEAD COVERAGE IS ACHIEVED.				
⋈	NIBCO	GATE VALVES 2" AND SMALLER SHALL BE NIBCO T-113. FOR VALVES ABOVE 2" IN SIZE UTILIZE NIBCO F-619 FLANGED VALVE WITH SQUARE OPERATING NUT.				C/D D6.2
♦	RAIN BIRD	44NP QUICK COUPLER VALVE				F D6.2
◕	SUPERIOR	REMOTE CONTROL VALVE - SUPERIOR 950, SIZE PER PLAN				E D6.2
Ⓜ	GRISWOLD	MASTER CONTROL VALVE - NORMALLY OPEN GRISWOLD 2160P - 4"				C D6.1
FS	CST	SADDLE MOUNTED FLOW SENSOR - CST MODEL FSI-S40-001				D D6.1
⋈	WILKINS	REDUCED PRESSURE BACKFLOW ASSEMBLY WITH FREEZE BLANKET- WILKINS 375 - 6", VIT PBB-60HP				B D6.1
C		IRRIGATION CONTROLLER. HUNTER ACC2. CONTRACTOR TO COORDINATE WITH DISTRICT ON CONTROLLER INSTALLATION DURING CONSTRUCTION.				B D6.2
BP		IRRIGATION BOOSTER PUMP. PPS MODEL CB#IV1C020X00325-065XXXX243ONS-4				A D6.1
		EXISTING VALVE, GATE/BALL VALVE OR QUICK COUPLER				
		EXISTING ROTORS OR SPRAY HEADS				
		EXISTING MAINLINE TO REMAIN AND BE PROTECTED. CONTRACTOR TO VERIFY SIZE AND APPROXIMATE LOCATION PRIOR TO CONSTRUCTION.				
		EXISTING IRRIGATION LATERAL LINE				
		LIMIT OF WORK				
		3/4" LATERAL LINE - SCHEDULE 40 PVC PIPE & SOLVENT WELD FITTINGS, AT 18" DEPTH.				
		1" LATERAL LINE - SCHEDULE 40 PVC PIPE & SOLVENT WELD FITTINGS, AT 18" DEPTH.				
		1 1/4" LATERAL LINE - SCHEDULE 40 PVC PIPE & SOLVENT WELD FITTINGS, AT 18" DEPTH.				
		1 1/2" LATERAL LINE - SCHEDULE 40 PVC PIPE & SOLVENT WELD FITTINGS, AT 18" DEPTH.				
		2" LATERAL LINE - SCHEDULE 40 PVC PIPE & SOLVENT WELD FITTINGS, AT 18" DEPTH.				I D6.2
		2 1/2" LATERAL LINE - SCHEDULE 40 PVC PIPE & SOLVENT WELD FITTINGS, AT 18" DEPTH.				
		4" LATERAL LINE - SCHEDULE 40 PVC PIPE & SOLVENT WELD FITTINGS, AT 18" DEPTH.				
		MAIN LINE - CLASS 200 PVC PIPE & RING-TITE FITTINGS AT 24" DEPTH - SIZE AS NOTED.				
	SLEEVES	CLASS 200 PVC. SIZE TO BE TWICE THE SIZE OF TOTAL PIPE DIAMETERS WITHIN THE SLEEVE, OR AS NOTED, WITH 30" COVER.				

1	CONNECT PROPOSED MAIN LINE TO EXISTING MAIN LINE. CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY LOCATION AND CONNECT LINE SIZED PIPE.
2	CONTRACTOR SHALL BE RESPONSIBLE TO FIELD VERIFY EXISTING ZONE AND CONNECT TO NEW IRRIGATION SYSTEM. WORK INCLUDES BUT NOT LIMITED TO ADDING NEW VALVE, EXTENDING LATERAL/MAIN LINE AND ADDING NEW HEADS TO ACHIEVE HEAD-TO-HEAD COVERAGE. EXISTING IRRIGATION ZONES TO BE WIRED WITH NEW IRRIGATION CONTROLLER. CONTRACTOR TO GROUP VALVES NEAR PROPOSED VALVE LOCATIONS.
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P.O.C.	POINTS OF CONNECTION - TIE PROPOSED MAIN LINE TO EXISTING MAINLINE. CONTRACTOR SHALL VERIFY LOCATION OF EXISTING SUPPLY LINE AND WATER PRESSURE. PROVIDE STATIC WATER PRESSURE RATING TO OWNER'S REPRESENTATIVE.
	EXISTING IRRIGATION SYSTEM IN THIS AREA TO BE VERIFIED BY CONTRACTOR AND PROVIDE FINDINGS TO OWNER'S REPRESENTATIVE. ADJUST IRRIGATION SYSTEM AS NEEDED, ENSURE PROPER HEAD-TO-HEAD COVERAGE IS ACHIEVED.

CONTROLLER STATION NUMBER
APPROX. GPM FLOW THROUGH VALVE
CONTROL VALVE SIZE

NORTH
0' 10' 20' 40' 60'

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
1843 Iron Point Rd. Suite 140
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tel: 916.415.6554
fax: 916.415.6525
www.VerdeDesigninc.com

STAMP

REGISTERED LANDSCAPE ARCHITECT
MARK S. BRADNER
No. 4069
EXPIRATION DATE: JULY 2023
STATE OF CALIFORNIA

CONSULTANT

KEYMAP

SHEET TITLE
IRRIGATION PLAN - BASEBALL FIELD

PROJECT NAME
HIRAM JOHNSON HIGH SCHOOL
GOLF PRACTICE FACILITY, VARSITY BASEBALL AND SOFTBALL FIELDS

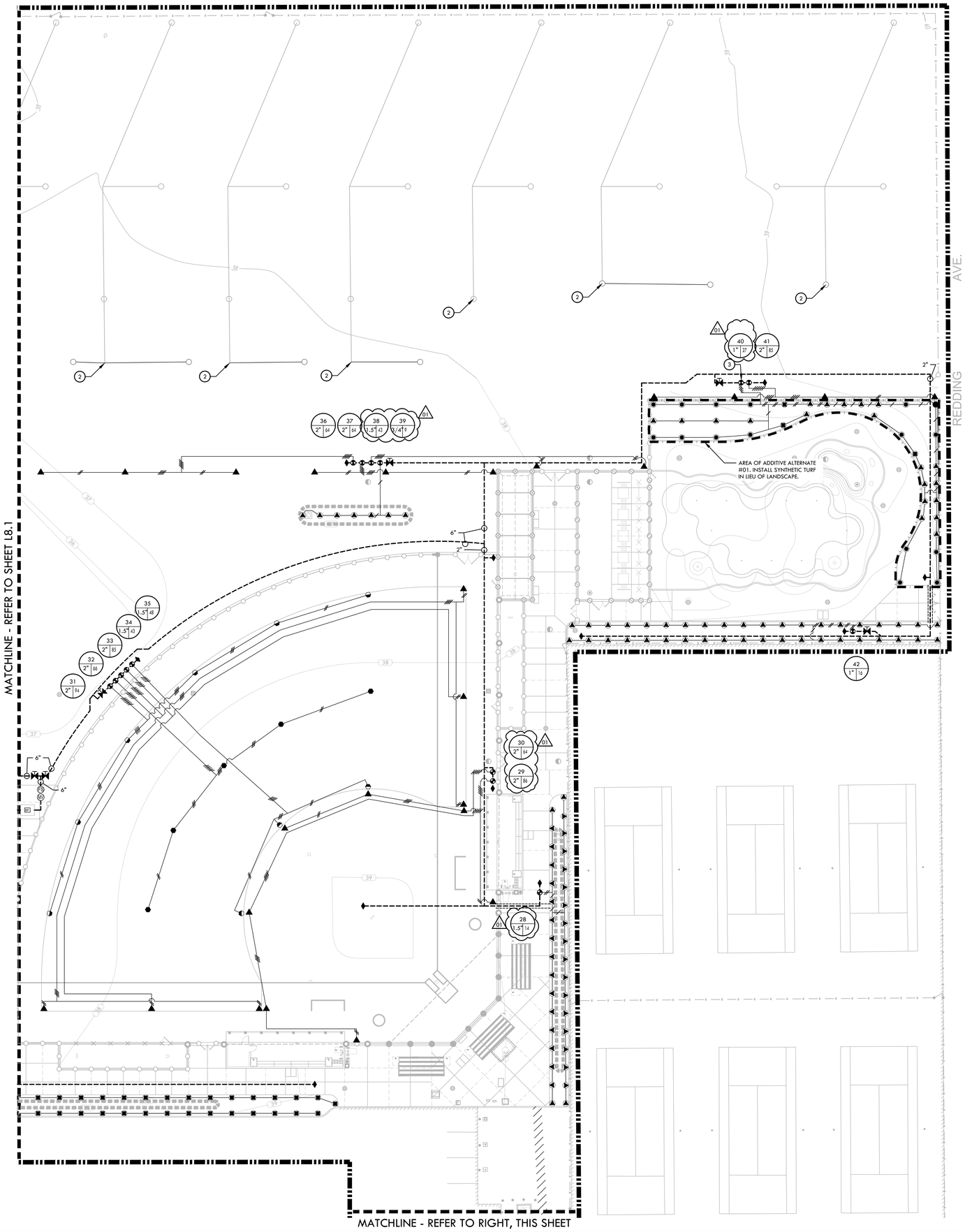
PROJECT ADDRESS
6879 14TH AVENUE
SACRAMENTO, CA 95820

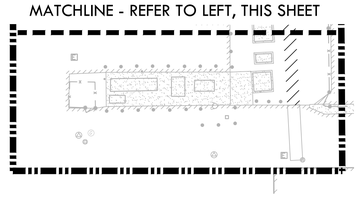
SUBMITTAL	DATE
DD 50% SUBMITTAL	04/15/22
100% DSA SUBMITTAL	05/27/22
DSA BACK CHECK	08/11/22
DSA ADDENDUM SUBMITTAL	09/16/22

NO.	REVISIONS	DATE
1	ADDENDUM	09/16/22

DRAWN BY	CHECKED BY
JC	MB/CS
DATE ISSUED	SCALE
09/16/2022	1" = 20'-0"
PROJ. NO.	
2203200	
SHEET NO.	
L8.1	

DRAWING NAME: V:\Projects-FO\2022\2203200 - Hiram Johnson Golf Baseball Softball\CAD_IRR.dwg
PLOT DATE: 09-15-22 PLOTTED BY: station27





IRRIGATION NOTES

1. THE SYSTEM IS DESIGNED TO OPERATE AT A MAXIMUM FLOW OF 325 GPM WITH A MAXIMUM 65 STATIC PSI AT THE IRRIGATION BOOSTER PUMP. CONTRACTOR SHALL VERIFY PRESSURE PRIOR TO BEGINNING WORK. CONTACT OWNER IMMEDIATELY SHOULD DISCREPANCY ARISE AND REDIRECT WORK TO AVOID DELAY.
2. ALL WORK SHALL CONFORM TO LOCAL AND STATE CODES AND ORDINANCES. ALL IRRIGATION WORK SHALL CONFORM TO THE LANDSCAPE SECTION OF THE STANDARD PLAN DETAILS FOR PUBLIC WORKS CONSTRUCTION. PROJECT AND DETAILS AND SPECIFICATIONS SHALL TAKE PRECEDENCE OVER STANDARD PLAN DETAILS.
3. ALL PLASTIC FITTINGS SHALL BE A MINIMUM OF 18" APART TO FACILITATE REMOVAL AND REPLACEMENT OF INDIVIDUAL FITTINGS. TRENCHING DEPTHS OF POTABLE WATER MAIN SHALL BE 24". ALL MAINS, LATERALS AND CONTROL WIRES SHALL BE INSTALLED IN SCHEDULE 40 PURPLE P.V.C. SLEEVES (OF APPROPRIATE SIZE) UNDER ALL A.C. AND P.C.C. PAVEMENT.
4. IRRIGATION SYSTEM DESIGN IS DIAGRAMMATIC. WHERE PIPING, VALVES, QUICK COUPLERS, ETC. ARE SHOWN OUTSIDE FIELD, OR LIMIT OF WORK; INTENT IS FOR PIPING, VALVES, ETC., TO BE INSTALLED WITHIN FIELD AREAS OF PROPERTY. INDICATE EXACT LOCATIONS OF IRRIGATION EQUIPMENT ON RECORD DRAWINGS.
5. CONTRACTOR SHALL ADJUST IRRIGATION HEADS FOR OPTIMUM COVERAGE WHILE REDUCING OVER SPRAY ONTO WALKWAYS AND ADJACENT STRUCTURES. VALVES SHALL BE ADJUSTED TO AVOID MISTING AS APPLICABLE. CONTRACTOR SHALL MAKE MINOR ADJUSTMENTS TO HEAD LOCATIONS IN FIELD AS NECESSARY ONLY WITH THE APPROVAL OF THE CITY ENGINEER.
6. CONTRACTOR SHALL REFER TO DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.

IRRIGATION AND CONDUIT LEGEND

SYM.	MANUF.	MODEL NO./ DESCRIPTION	DSGN. RAD.	PSI	GPM	DTL REF.
●	HUNTER	I-50-06-SS-ON-15 DUAL OPPOSING NOZZLE	40'-50'	60	13.2	
◓	HUNTER	I-50-06-SS-15 ADJUSTABLE SPRAY NOZZLE	40'-50'	60	15.7	
▲	HUNTER	I-50-06-SS-23 ADJUSTABLE SPRAY NOZZLE	52'	60	21.3	G D6.2
◓	HUNTER	I-20-06-SS-MPR25 ADJUSTABLE SPRAY NOZZLE	30'	55	2.13-8.43	
◩	HUNTER	I-20-06-SS-MPR25 ADJUSTABLE SPRAY NOZZLE	20'	55	1.11-4.25	
◬	HUNTER	PROS-06-PRS40-CV W/ MP800SR ROTATOR NOZZLES	8'	40	0.23-0.78	
◙	HUNTER	PROS-06-PRS40-CV W/ MP1000 ROTATOR NOZZLES	12'	40	0.21-0.84	H D6.2
◉	HUNTER	PROS-06-PRS40-CV W/ MP2000 ROTATOR NOZZLES	16'	40	0.43-1.48	
●	HUNTER	PROS-06-PRS40-CV W/ MP3000 ROTATOR NOZZLES	25'	40	0.86-3.64	
■	HUNTER	18" ROOT ZONE WATERING SYSTEM RZWS-18-50-CV	-	40	0.50	M D6.2
○	-	EXISTING HEAD ADJUSTED/RELOCATED. CONTRACTOR SHALL BE RESPONSIBLE PIPE HEAD BACK TO ZONE AND ENSURE PROPER HEAD-TO-HEAD COVERAGE IS ACHIEVED.				
⋈	NIBCO	GATE VALVES 2" AND SMALLER SHALL BE NIBCO T-113. FOR VALVES ABOVE 2" IN SIZE UTILIZE NIBCO F-619 FLANGED VALVE WITH SQUARE OPERATING NUT.				C/D D6.2
♦	RAIN BIRD	44NP QUICK COUPLER VALVE				F D6.2
◔	SUPERIOR	REMOTE CONTROL VALVE - SUPERIOR 950, SIZE PER PLAN				E D6.2
M	GRISWOLD	MASTER CONTROL VALVE - NORMALLY OPEN GRISWOLD 2160P - 4"				C D6.1
FS	CST	SADDLE MOUNTED FLOW SENSOR - CST MODEL FSI-S40-001				D D6.1
⋈	WILKINS	REDUCED PRESSURE BACKFLOW ASSEMBLY WITH FREEZE BLANKET- WILKINS 375 - 6", VIT PBB-60HP				B D6.1
C		IRRIGATION CONTROLLER, HUNTER ACC2. CONTRACTOR TO COORDINATE WITH DISTRICT ON CONTROLLER INSTALLATION DURING CONSTRUCTION.				B D6.2
BP		IRRIGATION BOOSTER PUMP. PPS MODEL C8##V1C020X00325-065XXXX243ONS-4				A D6.1
		EXISTING VALVE, GATE/BALL VALVE OR QUICK COUPLER				
		EXISTING ROTORS OR SPRAY HEADS				
		EXISTING MAINLINE TO REMAIN AND BE PROTECTED. CONTRACTOR TO VERIFY SIZE AND APPROXIMATE LOCATION PRIOR TO CONSTRUCTION.				
		EXISTING IRRIGATION LATERAL LINE				
		LIMIT OF WORK				
		3/4" LATERAL LINE - SCHEDULE 40 PVC PIPE & SOLVENT WELD FITTINGS, AT 18" DEPTH.				
		1" LATERAL LINE - SCHEDULE 40 PVC PIPE & SOLVENT WELD FITTINGS, AT 18" DEPTH.				
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		1 1/2" LATERAL LINE - SCHEDULE 40 PVC PIPE & SOLVENT WELD FITTINGS, AT 18" DEPTH.				
		2" LATERAL LINE - SCHEDULE 40 PVC PIPE & SOLVENT WELD FITTINGS, AT 18" DEPTH.				1 D6.2
		2 1/2" LATERAL LINE - SCHEDULE 40 PVC PIPE & SOLVENT WELD FITTINGS, AT 18" DEPTH.				
		4" LATERAL LINE - SCHEDULE 40 PVC PIPE & SOLVENT WELD FITTINGS, AT 18" DEPTH.				
		MAIN LINE - CLASS 200 PVC PIPE & RING-TITE FITTINGS AT 24" DEPTH - SIZE AS NOTED.				
	SLEEVES	CLASS 200 PVC. SIZE TO BE TWICE THE SIZE OF TOTAL PIPE DIAMETERS WITHIN THE SLEEVE, OR AS NOTED, WITH 30" COVER.				

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1 / 1" / 11.3	CONTROLLER STATION NUMBER APPROX. GPM FLOW THROUGH VALVE CONTROL VALVE SIZE

NORTH

0' 10' 20' 40' 60'

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
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fax: 916.415.6525
www.VerdeDesigninc.com

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REGISTERED LANDSCAPE ARCHITECT
MARK S. BRAUNER
No. 4069
EXPIRATION DATE: JULY 2023
STATE OF CALIFORNIA

CONSULTANT

KEYMAP

SHEET TITLE

IRRIGATION PLAN - SOFTBALL FIELD AND GOLF

PROJECT NAME

HIRAM JOHNSON HIGH SCHOOL GOLF PRACTICE FACILITY, VARSITY BASEBALL AND SOFTBALL FIELDS

PROJECT ADDRESS

6879 14TH AVENUE SACRAMENTO, CA 95820

SUBMITTAL	DATE
DD 50% SUBMITTAL	04/15/22
100% DSA SUBMITTAL	05/27/22
DSA BACK CHECK	08/11/22
DSA ADDENDUM SUBMITTAL	09/16/22

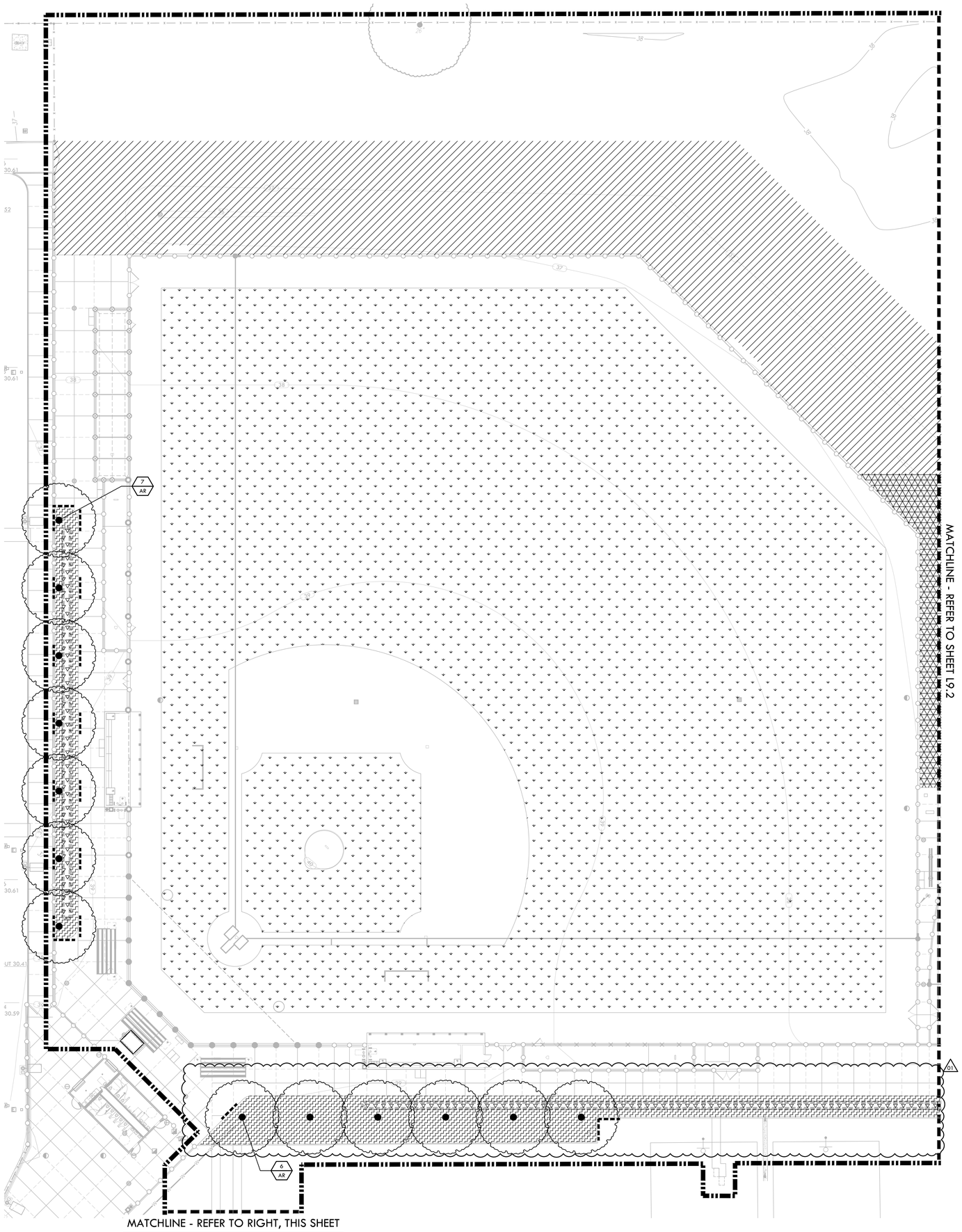
NO.	REVISIONS	DATE
1	ADDENDUM	09/16/22

DRAWN BY	CHECKED BY
JC	MB/CS
DATE ISSUED	SCALE
09/16/2022	1" = 20'-0"

PROJ. NO. 2203200

SHEET NO. L8.2

DRAWING NAME: Y:\Projects-FO\2022\2203200 — Hiram Johnson Golf Baseball Softball\CAD_IRR.dwg
PLOT DATE: 09-15-22 PLOTTED BY: station27



PLANTING NOTES

1. CONTRACTOR SHALL PROTECT AND MAINTAIN ALL PLANT MATERIAL FROM TIME OF DELIVERY TO TIME OF FINAL ACCEPTANCE. OWNER SHALL NOT BE RESPONSIBLE FOR LOSSES DUE TO VANDALISM, THEFT OR SEVERE WEATHER.
2. CONTRACTOR SHALL PLACE PLANT MATERIALS SO THEY DO NOT INTERFERE WITH IRRIGATION SYSTEM OR INHIBIT REQUIRED COVERAGE. PLANT LOCATIONS MAY BE ADJUSTED AS LONG AS DESIGN INTENT IS NOT COMPROMISED. CONTRACTOR SHALL SET OUT PLANT MATERIAL AS PER PLAN AND RECEIVE ACCEPTANCE FROM OWNER'S REPRESENTATIVE WITH RESPECT TO PLANT HEALTH AND LOCATION PRIOR TO INSTALLATION. CONTRACTOR SHALL GIVE MINIMUM 2 WORKING DAYS NOTICE FOR OBSERVATION AND SHALL HAVE ALL PLANT MATERIAL IN SPECIFIED LOCATIONS FOR REVIEW AT ONE TIME. CONTRACTOR SHALL REPLACE ANY MATERIAL AS REQUESTED BY OWNER'S REPRESENTATIVE.
3. ALL NON-TURF PLANTING AREAS SHALL RECEIVE A 3" LAYER OF BARK MULCH TOP DRESS (UNLESS NOTED OTHERWISE). REFER TO SPECIFICATIONS.
4. WHEN WORK HAS TO OCCUR UNDER THE DRIPLINE OF EXISTING TREES NOT SCHEDULED FOR REMOVAL, THE CONTRACTOR SHALL USE ALL POSSIBLE CARE TO AVOID INJURY TO THE TREES AND TREE ROOTS. GRADE IN LINES RADIAL TO THE EXISTING TREES RATHER THAN TANGENTIAL. ALL PARTIAL CUTS OR TEARS THROUGH ROOTS TWO INCHES IN DIAMETER AND LARGER SHALL BE CUT CLEAN. TRENCHES ADJACENT TO TREES SHALL BE FILLED WITHIN 24 HOURS AFTER EXCAVATION, BUT WHERE THIS IS NOT POSSIBLE, THE SIDE OF THE TRENCH ADJACENT TO THE TREE, AND ANY EXPOSED ROOTS SHALL BE KEPT SHADED AND MOIST WITH DAMPENED BURLAP OR CANVAS.
5. ALL SHRUB AND TREE AREA SHALL RECEIVE A WEED FABRIC LAYER. INSTALL WITH STAPLES, 3" OVERLAP AND COVER WITH MULCH.
6. ALL TURF, MULCH AND PLANTERS TO RECEIVE SOIL AMENDMENTS AND SOIL PREPARATION PER SPECIFICATIONS UNLESS OTHERWISE NOTED.

PLANTING LEGEND

SYM.	QTY.	SIZE	BOTANICAL/COMMON NAME	SPACING	WATER USE REQUIREMENTS PER WUCOLS REGION 2 - CENTRAL VALLEY	DET REF
TREES						
	13	15 GAL	ACER RUBRUM RED MAPLE	35' O.C.	MEDIUM	N D6.2
SHRUBS/GROUNDCOVER						
	834	1 GAL	JUNCUS PATENS CALIFORNIA GRAY RUSH	24" O.C.	MEDIUM	O D6.2
	917	1 GAL	CAREX PRAEGRACILIS CLUSTERED FIELD SEDGE	1'-6" O.C.	MEDIUM	
			TURF - SOD, HYBRID BERMUDA, REFER TO SPECIFICATIONS	-	HIGH	
			NATIVE PRESERVATION MIX AS SUPPLIED BY DELTA BLUEGRASS CO.	-	HIGH	
			AREA FOR LANDSCAPE REPAIR. CONTRACTOR TO REPAIR LANDSCAPE TO MATCH EXISTING TO AN AS-WAS OR BETTER CONDITION.	-	HIGH	
			3" DEP. MULCH ONLY AREA - REFER TO SPECIFICATIONS	-	N/A	
			AREA TO BE BACKFILLED AND REPAIRED TO MATCH SURROUNDING LANDSCAPE	-	N/A	
			TREE ROOT BARRIER			P D6.2
MISC.						
01 1			IF ADDITIVE ALTERNATE 01 IS AWARDED. CONTRACTOR SHALL NOT INSTALL NATIVE PRESERVATION MIX LANDSCAPE.			

HARDSCAPE SHADE

35' Diamater Tree Symbol	Shade Percentage	Quantity	Total Shade (sf)
	100% (962 sf/tree)	0	-
	75% (722 sf/tree)	2	1,444
	50% (481 sf/tree)	11	5,291
	25% (240 sf/tree)	0	0
		Sum	6,735

New Hardscape(sf)	Shade Required - 20% (sf)	Shade Provided (sf)	Percent Shade
26,819	5,364	6,735	25%

NORTH

0' 10' 20' 40' 60'

VERDE DESIGN
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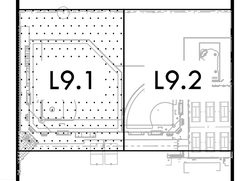

SHEET TITLE

PLANTING PLAN-
BASEBALL FIELD

PROJECT NAME

HIRAM JOHNSON
HIGH SCHOOL
GOLF PRACTICE FACILITY,
VARSITY BASEBALL AND
SOFTBALL FIELDS

PROJECT ADDRESS

6879 14TH AVENUE
SACRAMENTO, CA 95820

SUBMITTAL	DATE
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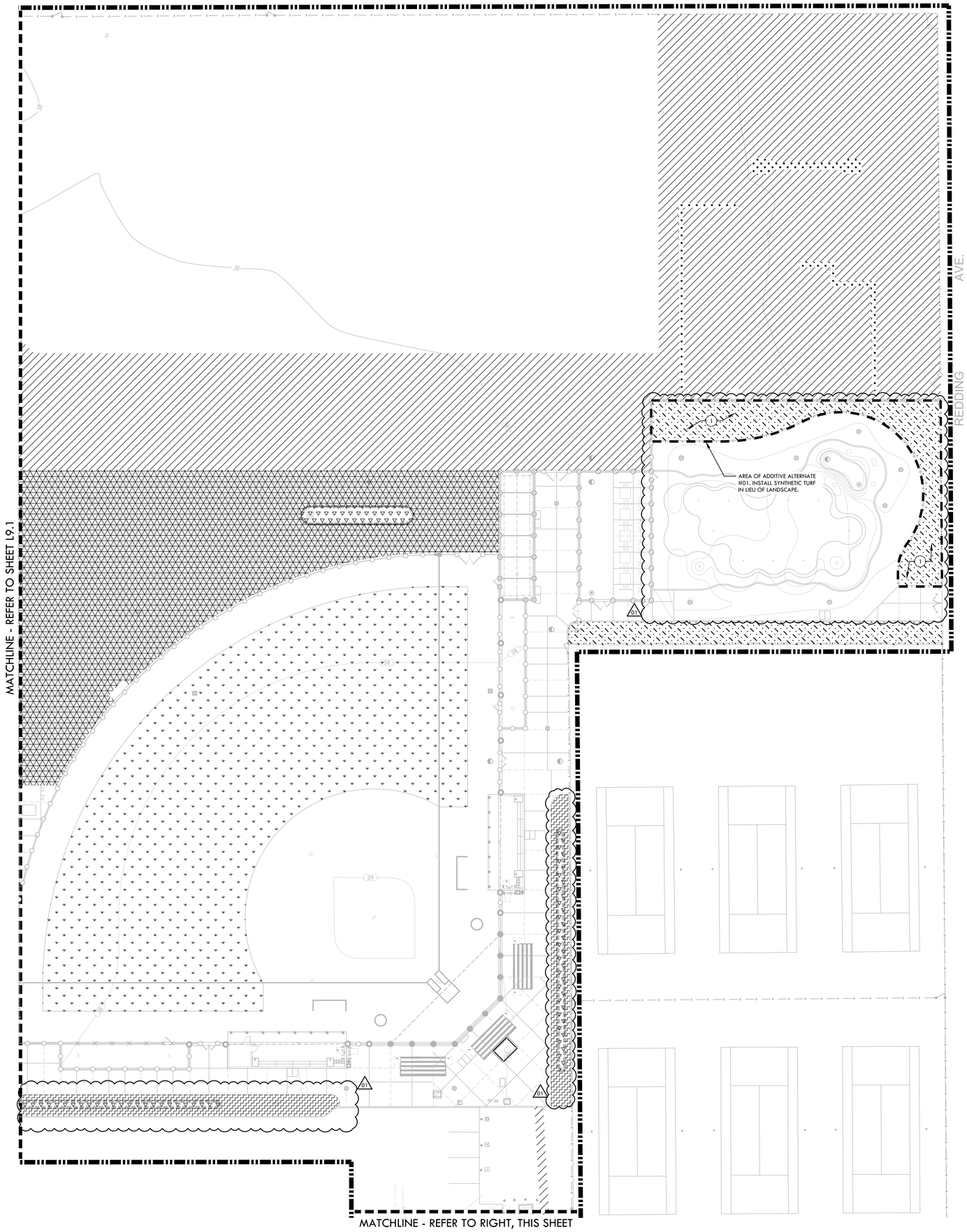
DRAWN BY	CHECKED BY
JC	MB/CS
DATE ISSUED	SCALE
09/16/2022	1" = 20'-0"

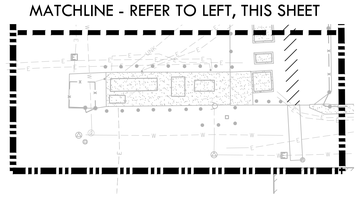
PROJ. NO. 2203200

SHEET NO. L9.1

PLANTING PLAN - BASEBALL FIELD

DRAWING NAME: Y:\Projects-FO\2022\2203200 - Hiram Johnson Golf Baseball Softball\CAD_PLT.dwg
PLOT DATE: 09-15-22 PLOTTED BY: station27





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PLANTING LEGEND

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	917	1 GAL	CAREX PRAEGRACILIS CLUSTERED FIELD SEDGE	1'-6" O.C.	MEDIUM	
			TURF - SOD, HYBRID BERMUDA, REFER TO SPECIFICATIONS	-	HIGH	
			NATIVE PRESERVATION MIX AS SUPPLIED BY DELTA BLUEGRASS CO.	-	HIGH	
			AREA FOR LANDSCAPE REPAIR. CONTRACTOR TO REPAIR LANDSCAPE TO MATCH EXISTING TO AN AS-WAS OR BETTER CONDITION.	-	HIGH	
			3" DEP. MULCH ONLY AREA - REFER TO SPECIFICATIONS	-	N/A	
			AREA TO BE BACKFILLED AND REPAIRED TO MATCH SURROUNDING LANDSCAPE	-	N/A	
			TREE ROOT BARRIER			P D6.2
MISC.						
01 1			IF ADDITIVE ALTERNATE 01 IS AWARDED. CONTRACTOR SHALL NOT INSTALL NATIVE PRESERVATION MIX LANDSCAPE.			

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fax: 916.415.6525
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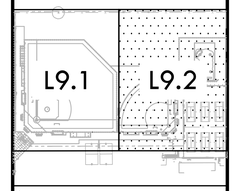
STAMP

REGISTERED LANDSCAPE ARCHITECT
MARK S. BRAUNER
No. 4098
EXPIRATION DATE: JULY 2023
STATE OF CALIFORNIA

CONSULTANT

KEYMAP



SHEET TITLE

PLANTING PLAN - SOFTBALL FIELD AND GOLF

PROJECT NAME

HIRAM JOHNSON HIGH SCHOOL GOLF PRACTICE FACILITY, VARSITY BASEBALL AND SOFTBALL FIELDS

PROJECT ADDRESS

6879 14TH AVENUE
SACRAMENTO, CA 95820

SUBMITTAL	DATE
DD 50% SUBMITTAL	04/15/22
100% DSA SUBMITTAL	05/27/22
DSA BACK CHECK	08/11/22
DSA ADDENDUM SUBMITTAL	09/16/22

NO.	REVISIONS	DATE
1	ADDENDUM	09/16/22

DRAWN BY	CHECKED BY
JC	MB/CS
DATE ISSUED	SCALE
09/16/2022	1" = 20'-0"
PROJ. NO.	
2203200	
SHEET NO.	
L9.2	

NORTH
0' 10' 20' 40' 60'

PLANTING PLAN - SOFTBALL FIELD AND GOLF

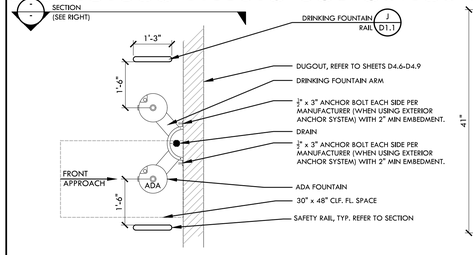
DRAWING NAME: Y:\Projects-FO\2022\2203200 - Hiram Johnson Golf Baseball Softball\CAD_PLT.dwg
PLOT DATE: 09-15-22 PLOTTED BY: station27

NOT USED

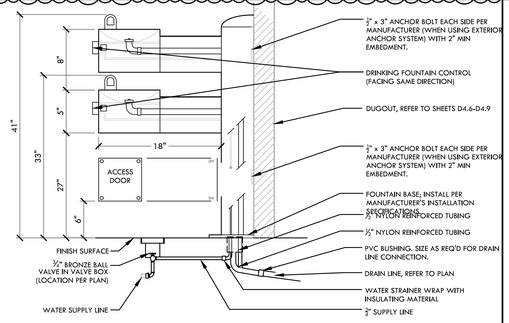
O

NOT USED

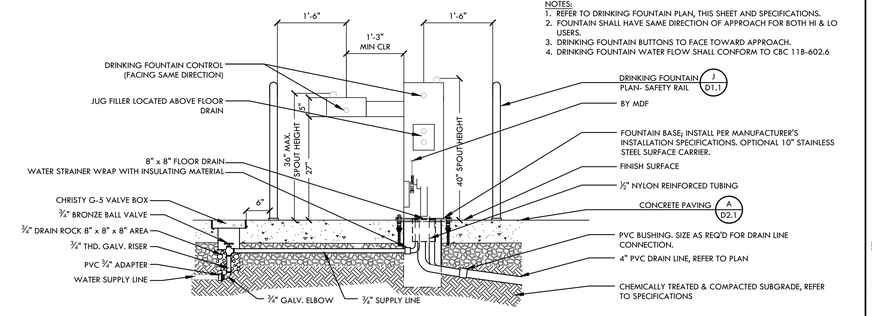
M



NOTES:
1. REFER TO SPECIFICATIONS.
2. FOUNTAIN SHALL HAVE SAME DIRECTION OF APPROACH FOR BOTH HI & LO USERS.
3. DRINKING FOUNTAIN BUTTONS TO FACE TOWARD APPROACH.
4. P-TRAP TO BE INSTALLED.
5. CONTRACTOR TO COORDINATE INSTALLATION OF FOOTINGS FOR DRINKING FOUNTAIN AND ASSOCIATIVE RAILINGS WITH DUGOUT FOUNDATION.

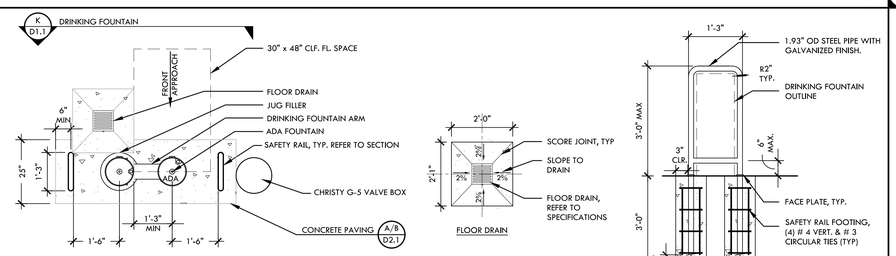


L DRINKING FOUNTAIN IN DUGOUT NTS



NOTES:
1. REFER TO DRINKING FOUNTAIN PLAN, THIS SHEET AND SPECIFICATIONS.
2. FOUNTAIN SHALL HAVE SAME DIRECTION OF APPROACH FOR BOTH HI & LO USERS.
3. DRINKING FOUNTAIN BUTTONS TO FACE TOWARD APPROACH.
4. DRINKING FOUNTAIN WATER FLOW SHALL CONFORM TO CBC 118-602.6

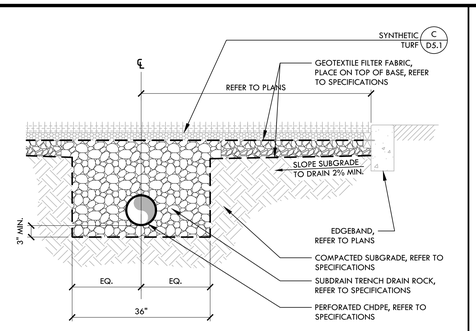
K DRINKING FOUNTAIN NTS



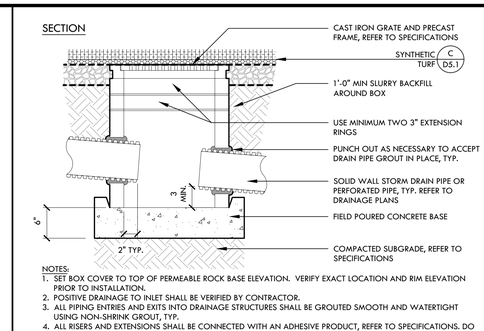
NOTES:
1. REFER TO SPECIFICATIONS.
2. FOUNTAIN SHALL HAVE SAME DIRECTION OF APPROACH FOR BOTH HI & LO USERS.
3. DRINKING FOUNTAIN BUTTONS TO FACE TOWARD APPROACH.

J DRINKING FOUNTAIN PLAN NTS

N PERFORATED SUBDRAIN NTS

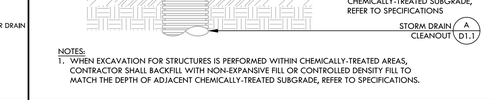


I JUNCTION BOX - SYNTHETIC TURF NTS



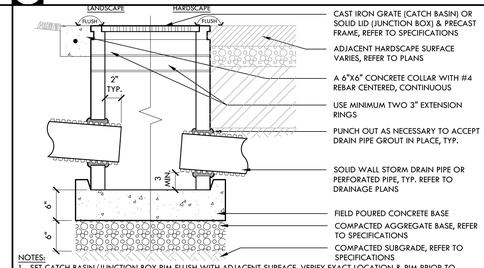
NOTES:
1. SET BOX COVER TO TOP OF PERMEABLE ROCK BASE ELEVATION. VERIFY EXACT LOCATION AND RIM ELEVATION PRIOR TO INSTALLATION.
2. POSITIVE DRAINAGE TO INLET SHALL BE VERIFIED BY CONTRACTOR.
3. ALL PIPING ENTRIES AND EXITS INTO DRAINAGE STRUCTURES SHALL BE GROUTED SMOOTH AND WATERTIGHT USING NON-SHRINK GROUT, TYP.
4. ALL RISERS AND EXTENSIONS SHALL BE CONNECTED WITH AN ADHESIVE PRODUCT, REFER TO SPECIFICATIONS. DO NOT CUT A HOLE IN TURF FOR JUNCTION BOX.

H SANITARY SEWER CLEANOUT NTS



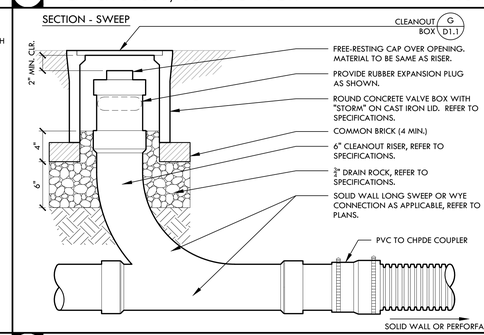
NOTES:
1. WHEN EXCAVATION FOR STRUCTURES IS PERFORMED WITHIN CHEMICALLY-TREATED AREAS, CONTRACTOR SHALL BACKFILL WITH NON-EXPANSIVE FILL OR CONTROLLED DENSITY FILL TO MATCH THE DEPTH OF ADJACENT CHEMICALLY-TREATED SUBGRADE, REFER TO SPECIFICATIONS.

G CLEANOUT IN HARDSCAPE NTS

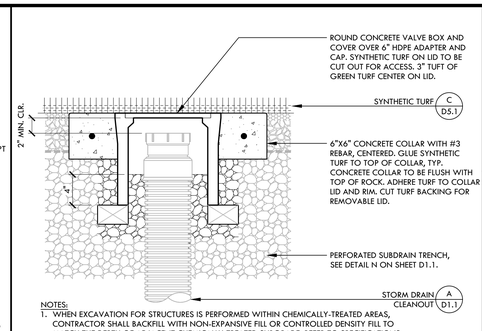


NOTES:
1. SET CATCH BASIN/JUNCTION BOX RIM FLUSH WITH ADJACENT SURFACE. VERIFY EXACT LOCATION & RIM PRIOR TO INSTALLATION.
2. POSITIVE DRAINAGE TO INLET SHALL BE VERIFIED BY CONTRACTOR.
3. ALL PIPING ENTRIES & EXITS INTO DRAINAGE STRUCTURES SHALL BE GROUTED SMOOTH & WATERTIGHT USING NON-SHRINK GROUT, TYP.
4. ALL RISERS & EXTENSIONS SHALL BE CONNECTED WITH AN ADHESIVE PRODUCT (RAMNEK OR EQUIVALENT).
5. ALL GRATES SHALL BE FITTED WITH LOCK-DOWN MECHANISMS OR BOLT-DOWN COVERS.

F CATCH BASIN / JUNCTION BOX NTS

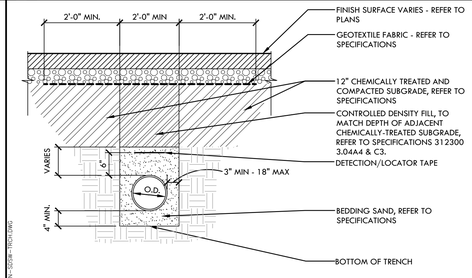


A STORM DRAIN CLEANOUT NTS



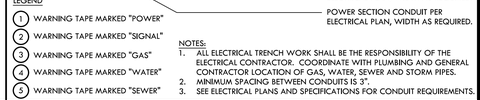
NOTES:
1. WHEN EXCAVATION FOR STRUCTURES IS PERFORMED WITHIN CHEMICALLY-TREATED AREAS, CONTRACTOR SHALL BACKFILL WITH NON-EXPANSIVE FILL OR CONTROLLED DENSITY FILL TO MATCH THE DEPTH OF ADJACENT CHEMICALLY-TREATED SUBGRADE, REFER TO SPECIFICATIONS.

E CLEANOUT IN SYNTHETIC TURF NTS



NOTE:
CONTRACTOR TO INSTALL SURFACING IMPROVEMENTS PER DRAWINGS.
SECTIONS FOR SURFACING IMPROVEMENTS SHALL SUPERCEDE BACKFILL MATERIAL.

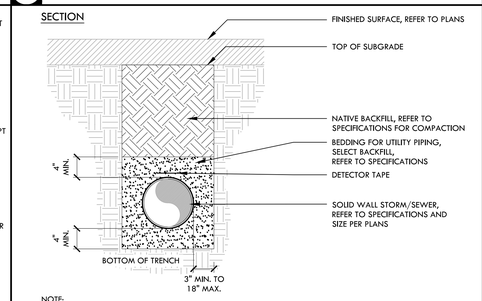
D TRENCH REPAIR FOR CHEMICAL-TREATMENT AREAS NTS



LEGEND
1. WARNING TAPE MARKED "POWER"
2. WARNING TAPE MARKED "SIGNAL"
3. WARNING TAPE MARKED "GAS"
4. WARNING TAPE MARKED "WATER"
5. WARNING TAPE MARKED "SEWER"

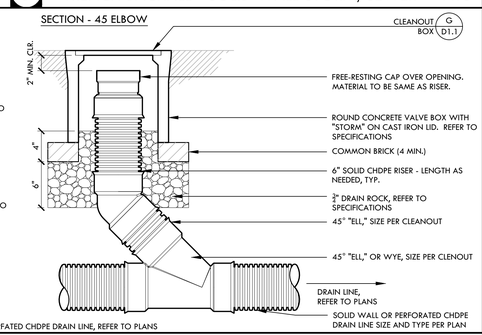
NOTES:
1. ALL ELECTRICAL TRENCH WORK SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR. COORDINATE WITH PLUMBING AND GENERAL CONTRACTOR LOCATION OF GAS, WATER, SEWER AND STORM PIPES.
2. MINIMUM SPACING BETWEEN CONDUITS IS 3".
3. SEE ELECTRICAL PLANS AND SPECIFICATIONS FOR CONDUIT REQUIREMENTS.

C JOINT UTILITY TRENCH AND DUCT BANK NTS



NOTE:
CONTRACTOR TO INSTALL SURFACING IMPROVEMENTS PER DRAWINGS. SECTIONS FOR SURFACING IMPROVEMENTS SHALL SUPERCEDE BACKFILL FOR STORM DRAINS.

B TRENCH BACKFILL - SOLID WALL STORM/SEWER NTS



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REGISTERED LANDSCAPE ARCHITECT
MARK S. BRAUNER
No. 4069
EXPIRATION DATE: JULY 2023
STATE OF CALIFORNIA

CONSULTANT

KEYMAP

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DRAINAGE & UTILITIES DETAILS

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6879 14TH AVENUE
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VDI	MB/CS
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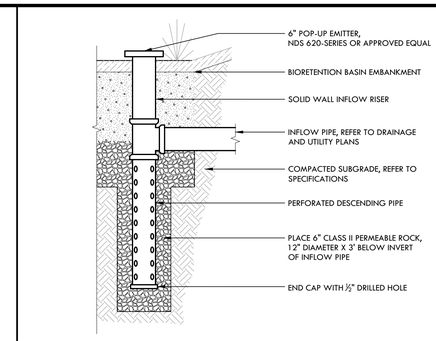
09/16/2022	AS NOTED
PROJ. NO.	
2203200	
SHEET NO.	
D1.1	

DRAWING NAME: Y:\Projects-FO\2022\2203200 - Hiram Johnson Golf Baseball Softball\CAD_DTL DRN & UTL.dwg
PLOT DATE: 09-15-22 PLOTTED BY: station27

NOT USED

NOT USED

NOT USED



Q L G E DRAINAGE BUBBLER NTS

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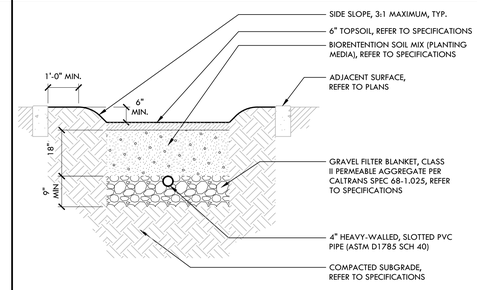
NOT USED

NOT USED



P K F D BIORETENTION AREA NTS

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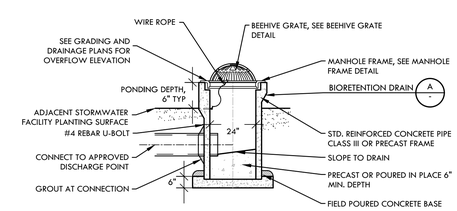
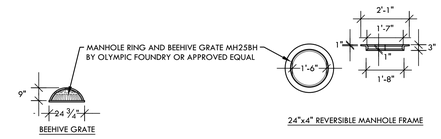
NOT USED





NOTES

1. ALL PIPING ENTRIES AND EXITS INTO DRAINAGE STRUCTURES SHALL BE GROUTED SMOOTH AND WATERTIGHT USING NON-SHRINK GROUT, TYP.
2. ALL RISERS AND EXTENSIONS SHALL BE CONNECTED WITH AN ADHESIVE PRODUCT (RAMNEK OR EQUIVALENT)
3. ALL GRATES SHALL BE FITTED WITH LOCK-DOWN MECHANISMS OR BOLT-DOWN COVERS.

O J C OVERFLOW RISER WITH GRATE/ STANDPIPE NTS

NOT USED

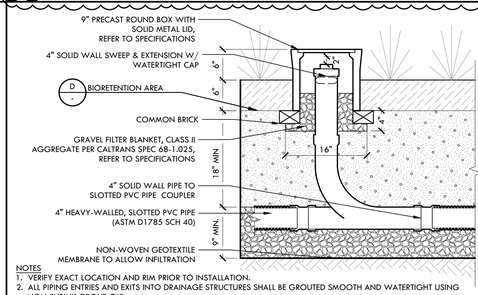
NOT USED

NOT USED

N I 01 B

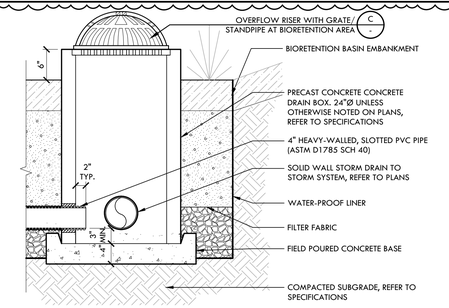
NOT USED

NOT USED



NOTES

1. VERIFY EXACT LOCATION AND RIM PRIOR TO INSTALLATION.
2. ALL PIPING ENTRIES AND EXITS INTO DRAINAGE STRUCTURES SHALL BE GROUTED SMOOTH AND WATERTIGHT USING NON-SHRINK GROUT, TYP.
3. CONCRETE BOX RISERS AND EXTENSIONS SHALL BE CONNECTED WITH AN ADHESIVE PRODUCT (RAMNEK OR EQUIVALENT).
4. ALL LIDS/GRATES SHALL BE FITTED WITH BOLT OR LOCK-DOWN MECHANISMS.



M H A INFILTRATION TRENCH AT BIORETENTION AREA NTS

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DRAWING NAME: Y:\Projects-FO\2022\2203200 - Hiram Johnson Golf Baseball Softball\CAD_DTL DRN & UTL.dwg
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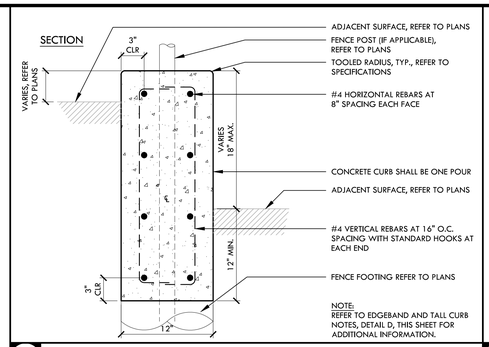
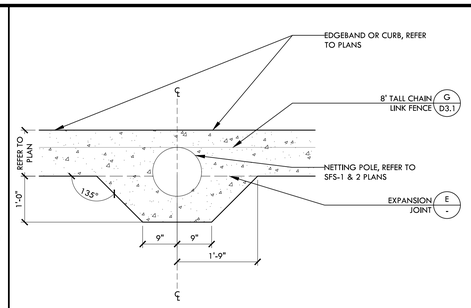
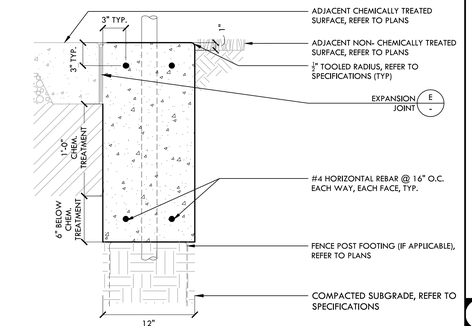


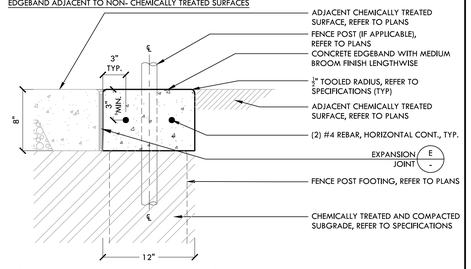
O 12" WIDE TALL CURB NTS



J CONCRETE COLLAR - NETTING POSTS NTS



EDGEBAND ADJACENT TO NON- CHEMICALLY TREATED SURFACES



EDGEBAND ADJACENT TO CHEMICALLY TREATED SURFACES

NOTE:
1. REFER TO EDGEBAND NOTES, THIS SHEET, FOR ADDITIONAL INFORMATION
2. ON LANDSCAPE SIDE, ADJACENT SURFACE HEIGHT VARIES - 3" MAX ONLY. REFER TO GRADING PLAN.

F 12" WIDE EDGEBAND NTS

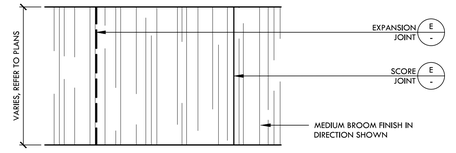
NOTES PERTAIN TO ALL EDGEBAND AND CURB DETAILS:
1. FOR EDGEBANDS AND CURBS WITH FENCING, INSTALL EXPANSION JOINTS AT ALL CORNERS, BEGINNINGS, AND ENDINGS OF RADII, AND AT ALL FENCE POSTS. INSTALL SCORE JOINTS AT 5' O.C. AND OR EVENLY SPACED AND CENTERED BETWEEN POSTS.
2. FOR EDGEBAND AND CURBS WITHOUT FENCING, INSTALL SCORE JOINTS AT 10' O.C. SPACING AND FIBER EXPANSION JOINTS EVERY 20' ON STRAIGHT RUNS. ON CURVED RUNS, FIBER EXPANSION JOINTS SHALL BE SPACED 10' O.C., WITH ALTERNATING SCORE JOINTS AT 5' O.C. SPACING.
3. ALL EXPANSION JOINTS SHALL BE SEALED, PER SPECIFICATIONS.

NOTES PERTAIN TO ALL TALL CURB DETAILS:
1. PROVIDE EXPANSION JOINTS AT 16' O.C. SPACING, CENTERED BETWEEN FENCE POSTS.
2. PROVIDE EXPANSION JOINTS AT EACH LOCATION WHERE AN ELEVATION STEP OCCURS BETWEEN CHANGING CURB/EDGEBAND TYPES.
3. AT EXPANSION JOINTS, PROVIDE A 24" LONG #4 DOWEL AT EACH CURB HORIZONTAL REBAR, CENTERED ON THE JOINT., AS PER DETAIL.
4. EXPANSION JOINTS SHALL BE INSTALLED WITH A ¾" CHAMFER BUILT INTO THE FORM WORK, IN ADDITION TO THE FIBER EXPANSION JOINT MATERIAL.
5. PROVIDE A CONTROL JOINT AT EACH FENCE POST. THE VERTICAL JOINT SHALL BE A ¾" CHAMFER BUILT INTO THE FORM WORK. THE HORIZONTAL JOINT, ALONG THE TOP OF CURB, SHALL BE A TOOLED SCORE JOINT, ALIGNED WITH AND MATCHING THE VERTICAL CHAMFER JOINT.
6. ALL EXPANSION JOINTS SHALL BE SEALED PER SPECIFICATION.
7. NO SCORE JOINTS ARE REQUIRED ON TALL CURBS, EXCEPT AS INDICATED AT EACH FENCE POST IN ITEM #5 ABOVE.

FINISHES
EDGEBANDS AND CURBS: MEDIUM BROOM
WALL AND TALL CURBS: MEDIUM SAND BLAST - TOP AND SIDES

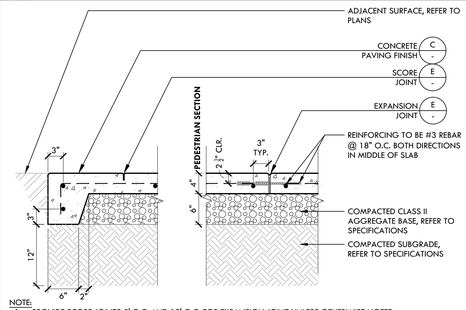
D EDGEBAND AND TALL CURB NOTES NTS

PLAN



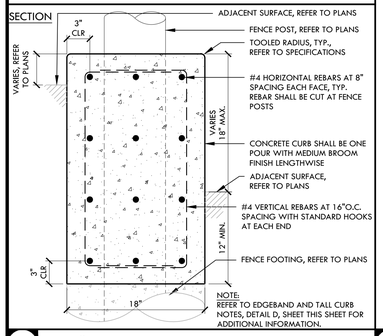
NOTE:
PROVIDE SCORE JOINTS 5' O.C. AND 10' O.C. FOR EXPANSION JOINT UNLESS OTHERWISE NOTED.

C CONCRETE PAVING FINISH NTS

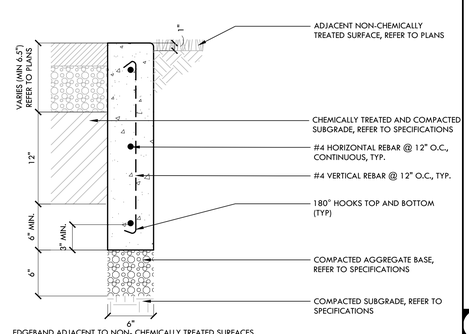


NOTE:
1. PROVIDE SCORE JOINTS 5' O.C. AND 10' O.C. FOR EXPANSION JOINT UNLESS OTHERWISE NOTED.

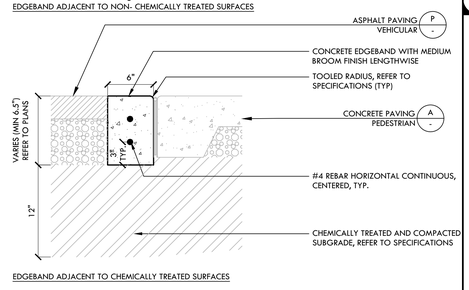
B CONCRETE PAVING - NON CHEMICALLY TREATED NTS



R 18" WIDE TALL CURB WITH FENCE NTS



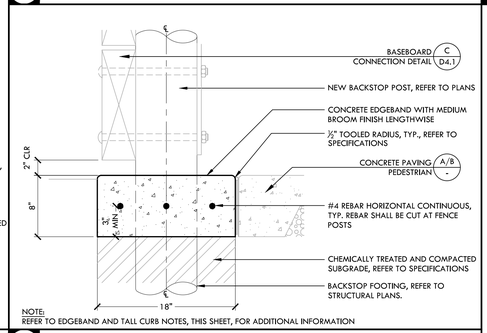
EDGEBAND ADJACENT TO NON- CHEMICALLY TREATED SURFACES



EDGEBAND ADJACENT TO CHEMICALLY TREATED SURFACES

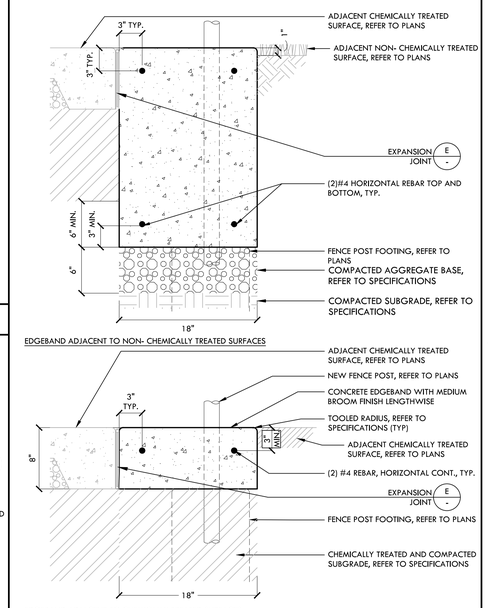
NOTE:
REFER TO EDGEBAND AND CURB NOTES, ON DETAIL D, THIS SHEET, FOR ADDITIONAL INFORMATION

M 6" WIDE EDGEBAND NTS



NOTE:
REFER TO EDGEBAND AND TALL CURB NOTES, THIS SHEET, FOR ADDITIONAL INFORMATION

H 18" WIDE BACKSTOP EDGEBAND NTS

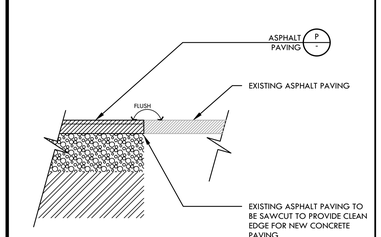


EDGEBAND ADJACENT TO NON- CHEMICALLY TREATED SURFACES

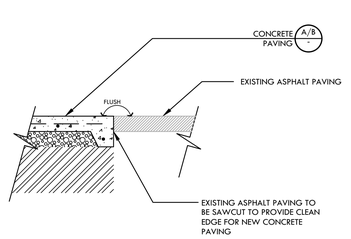
EDGEBAND ADJACENT TO CHEMICALLY TREATED SURFACES

NOTE:
1. REFER TO EDGEBAND AND TALL CURB NOTES, ON SHEET D2.1, FOR ADDITIONAL INFORMATION
2. ON LANDSCAPE SIDE, ADJACENT SURFACE HEIGHT VARIES - 3" MAX ONLY. REFER TO GRADING PLAN.

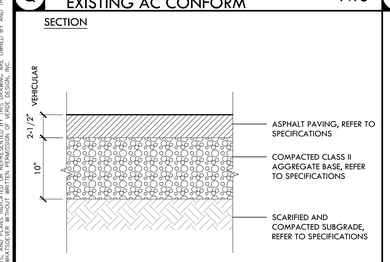
G 18" WIDE EDGEBAND WITH FENCE NTS



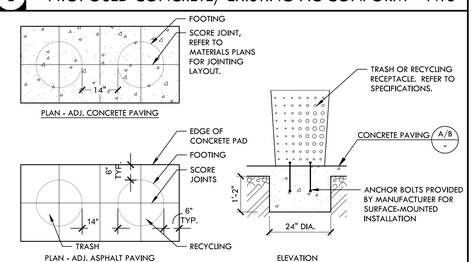
Q PROPOSED AC / EXISTING AC CONFORM NTS



L PROPOSED CONCRETE/ EXISTING AC CONFORM NTS

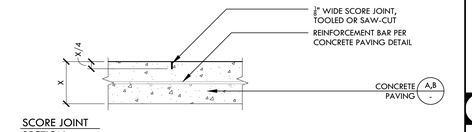


P ASPHALT PAVING NTS

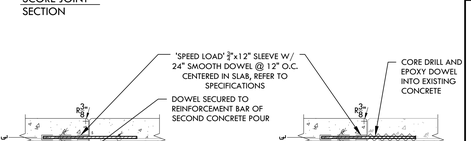


NOTES:
1. FOR ADDITIONAL INSTALLATION INFORMATION, REFER TO MANUFACTURER'S RECOMMENDATIONS.
2. TRASH RECEPTACLE IS TO BE PANTONE BLACK WITH PANTONE COLOR **TBD** LETTERING. RECYCLING RECEPTACLE IS TO BE PANTONE COLOR **TBD** WITH PANTONE BLACK LETTERING.
3. FOR INSTALLATION WHERE ADJACENT PAVING IS CONCRETE, IT IS INTENDED THAT THE PAVEMENT BE FOURED FOR RECEPTACLES AT SAME TIME TO PROVIDE UNIFORM AND CONTINUOUS SURFACE WHERE APPLICABLE.

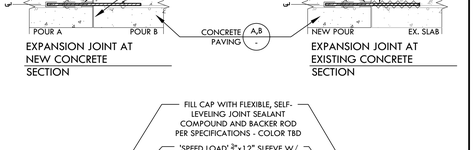
K TRASH AND RECYCLING RECEPTACLE PAD NTS



KEYED KOLD JOINT - VERTICAL AND LONGITUDINAL CONTROL SECTION

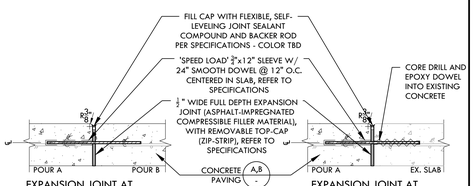


SCORE JOINT SECTION



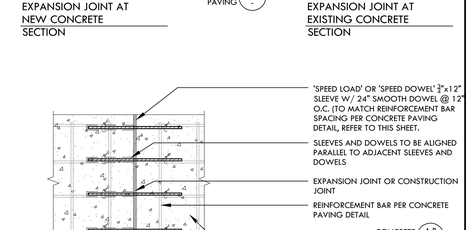
EXPANSION JOINT AT NEW CONCRETE SECTION

EXPANSION JOINT AT EXISTING CONCRETE SECTION



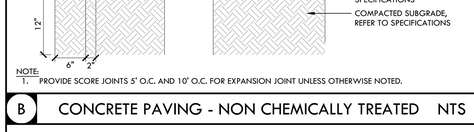
EXPANSION JOINT AT NEW CONCRETE SECTION

EXPANSION JOINT AT EXISTING CONCRETE SECTION

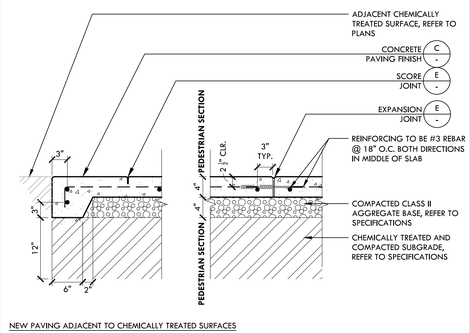


CONSTRUCTION / EXPANSION JOINT PLAN

E CONCRETE JOINTS NTS



NEW PAVING ADJACENT TO NON- CHEMICALLY TREATED SURFACES
(REFER TO CHEMICAL TREATMENT PLAN FOR LIMITS)



NEW PAVING ADJACENT TO CHEMICALLY TREATED SURFACES

NOTE:
1. PROVIDE SCORE JOINTS 5' O.C. AND 10' O.C. FOR EXPANSION JOINT UNLESS OTHERWISE NOTED.

A CONCRETE PAVING - CHEMICALLY TREATED NTS

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
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1843 Iron Point Rd. Suite 140
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tel: 916.415.6554
fax: 916.415.6525
www.VerdeDesigninc.com

STAMP

REGISTERED LANDSCAPE ARCHITECT
DEREK S. BRUNKER
No. 4098
EXPIRATION DATE: JULY 2023
STATE OF CALIFORNIA

CONSULTANT

KEYMAP

SHEET TITLE
CONSTRUCTION DETAILS - HARDSCAPE

PROJECT NAME
HIRAM JOHNSON HIGH SCHOOL GOLF PRACTICE FACILITY, VARSITY BASEBALL AND SOFTBALL FIELDS

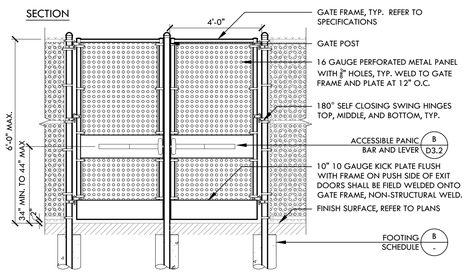
PROJECT ADDRESS
6879 14TH AVENUE SACRAMENTO, CA 95820

SUBMITTAL	DATE
DD 50% SUBMITTAL	04/15/22
100% DSA SUBMITTAL	05/27/22
DSA BACK CHECK	08/11/22
DSA ADDENDUM SUBMITTAL	09/16/22

NO.	REVISIONS	DATE
1	ADDENDUM	09/16/22

DRAWN BY: VDI
CHECKED BY: MB/CS
DATE ISSUED: 09/16/2022
SCALE: AS NOTED
PROJ. NO.: 2203200
SHEET NO.: D2.1

O 6' TALL X 4' DOUBLE SWING GATE WITH PANIC HARDWARE — NTS

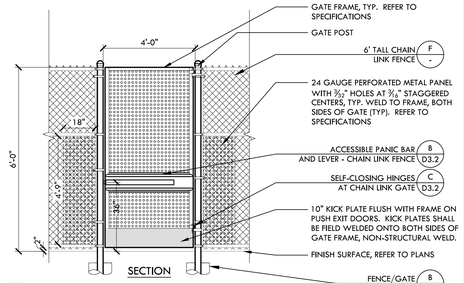


NOTE:
1. REFER TO GENERAL FENCE & GATE NOTES, DETAIL A, THIS SHEET

NOT USED

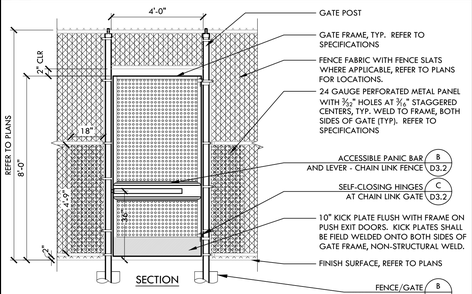
N

M 6' TALL x 4' SWING GATE - ACCESSIBLE — NTS



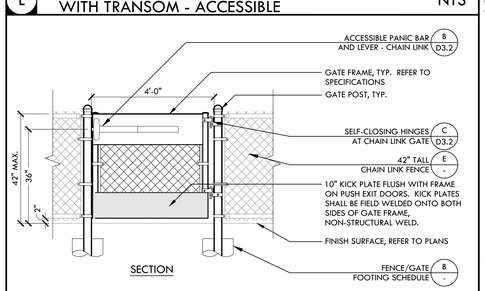
NOTE:
1. SEE GENERAL FENCE & GATE NOTES THIS SHEET, DETAIL A.
2. REFER TO PLANS FOR SLATS LOCATIONS.

L 8' TALL x 4' WIDE CHAIN LINK SWING GATE WITH TRANSOM - ACCESSIBLE — NTS

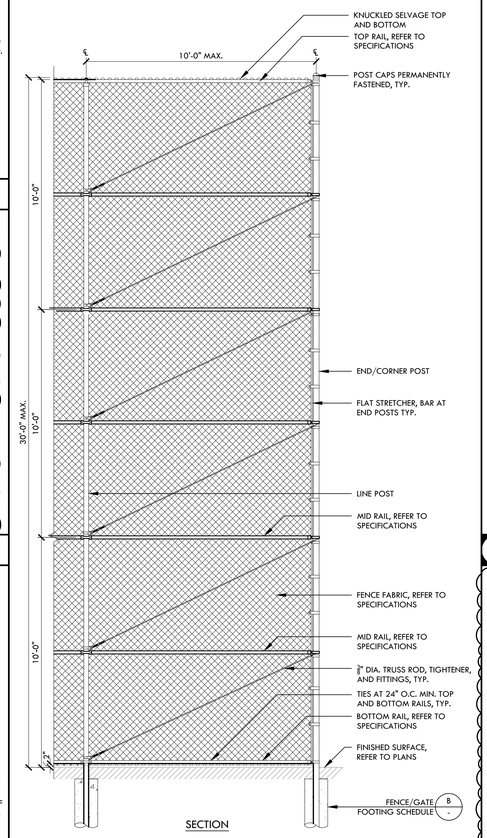


NOTE:
1. SEE GENERAL FENCE & GATE NOTES THIS SHEET, DETAIL A.

K 42" TALL x4' WIDE CHAIN LINK SWING GATE - ACCESSIBLE — NTS

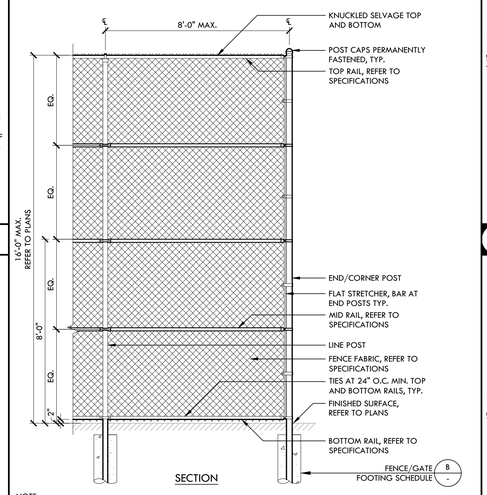


NOTE:
1. SEE GENERAL FENCE & GATE NOTES THIS SHEET, DETAIL A.



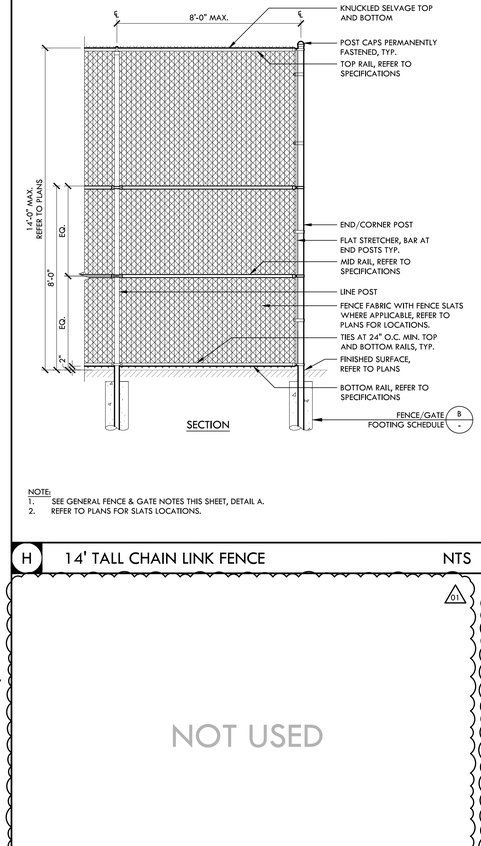
NOTE:
1. SEE GENERAL FENCE & GATE NOTES THIS SHEET, DETAIL A.

J 30' TALL CHAIN LINK BACKSTOP — NTS



NOTE:
1. SEE GENERAL FENCE & GATE NOTES THIS SHEET, DETAIL A.

I 16' TALL CHAIN LINK FENCE — NTS



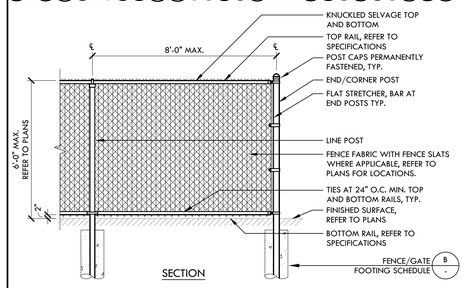
NOTE:
1. SEE GENERAL FENCE & GATE NOTES THIS SHEET, DETAIL A.
2. REFER TO PLANS FOR SLATS LOCATIONS.

H 14' TALL CHAIN LINK FENCE — NTS

01

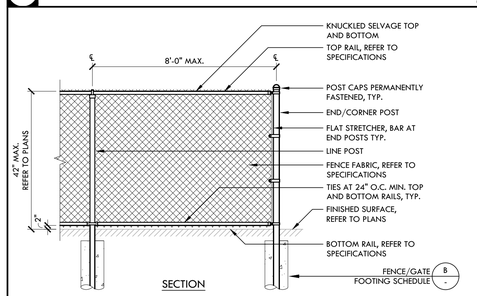
NOT USED

G



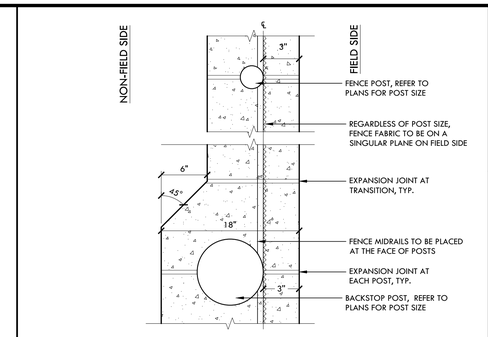
NOTE:
1. SEE GENERAL FENCE & GATE NOTES THIS SHEET, DETAIL A.

F 6' TALL CHAIN LINK FENCE — NTS

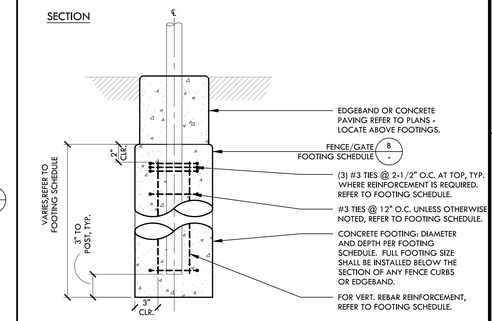


NOTE:
1. SEE GATE & FENCE NOTES THIS SHEET, DETAIL A.

E 42" TALL CHAIN LINK FENCE — NTS



D FENCE POST ALIGNMENT - PLAN VIEW — NTS



C FENCE FOOTING PROFILE — NTS

01

FENCE POST AND FOOTING SCHEDULE

DESCRIPTION	HEIGHT	LINE (STD. GALV. PIPE)	CORNER/END (STD. GALV. PIPE)	FOOTING	VERT. REBAR
CHAIN LINK FENCE	42"	1-1/2" DIA. STD.	2" DIA. STD.	12" DIA. X 3'-0" DEEP	-
CHAIN LINK FENCE	6'	2-1/2" DIA. STD.	3" DIA. STD.	12" DIA. X 3'-6" DEEP	-
CHAIN LINK FENCE WITH SLATS	6'	3" DIA. STD.	3-1/2" DIA. STD.	16" DIA. X 5'-6" DEEP	-
CHAIN LINK FENCE AT BATTING CAGE	14'	REFER TO STRUCTURAL DRAWINGS			
CHAIN LINK FENCE WITH SLATS AT BATTING CAGE	14'	REFER TO STRUCTURAL DRAWINGS			
CHAIN LINK FENCE AT DRIVING RANGE	16'	REFER TO STRUCTURAL DRAWINGS			
CHAIN LINK BACKSTOP	30	REFER TO STRUCTURAL DRAWINGS			
NETTING (24'-0" TALL NETTING OVER 8' TALL CHAIN LINK FENCE OR DUGOUT)	30	REFER TO STRUCTURAL DRAWINGS			

GATE POST FOOTING SCHEDULE

DESCRIPTION	SIZE (H x L)	POSTS (STD. GALV. PIPE)	FOOTING	VERT. REBAR
CHAIN LINK SWING GATE - ACCESSIBLE	42"X4'	2" DIA. STD.	12" DIA. X 3'-0" DEEP	-
CHAIN LINK DOUBLE SWING GATE	6' X 8'	3" DIA. STD.	12" DIA. X 3'-6" DEEP	-
CHAIN LINK DOUBLE SWING GATE - WITH SLATS	6' X 8'	3.5" DIA. STD.	12" DIA. X 5'-6" DEEP	-
CHAIN LINK DOUBLE SWING GATE - WITH SLATS	6' X 12'	3.5" DIA. STD.	16" DIA. X 5'-6" DEEP	-
CHAIN LINK SWING GATE - ACCESSIBLE WITH TRANSOM AND SLATS	8' X 4'	4" DIA. STD.	16" DIA. X 5'-6" DEEP	-
CHAIN LINK DOUBLE SWING GATE - MIXED LEAF WITH TRANSOM	8' X 10'	3" DIA. STD.	16" DIA. X 3'-6" DEEP	-

NOTES:
1. POSTS LISTED FOR GATES SHOULD BE END POST SIZES MIN. TYP.
2. REFER TO PLANS & DETAILS FOR POST LOCATION AND TOP OF POST FOOTING.
3. REFER TO FENCE FOOTING DETAIL, DETAIL C, THIS SHEET.
4. GATE POSTS SHALL BE END POST SIZE MIN. TYP.
5. THE PIPE SIZES INDICATED ARE NPS FOR : STANDARD PIPE SCHEDULE 40.

B FENCE/GATE FOOTING SCHEDULE — NTS

NOTES PERTAIN TO ALL GATE AND FENCE DETAILS:
1. FENCE FABRIC ON PERIMETER FENCING IS TO BE ON FIELD SIDE. ALL FENCING TO BE BLACK VINYL.
2. BOTTOM RAIL TO BE 2" FROM FINISH GRADE, FENCE FABRIC BOTTOM EDGE TO BE 1" FROM FINISH GRADE.
3. SUBMIT SHOP DRAWINGS FOR ACCEPTANCE BY OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
4. GATES IN ACCESSIBLE PATH OF TRAVEL MUST MEET ENTRY AND EXIT DOOR REQUIREMENTS FOR ACCESSIBILITY PER 2019 CALIFORNIA BUILDING CODE (118-404).
5. FOR PEDESTRIAN GATE , PROVIDE LOCKING DEVICE TO SECURE GATE IN OPEN POSITION WITH NEW SIGN THAT READS, "GATE SHALL REMAIN OPEN DURING HOURS OF OPERATION."
6. ALL PEDESTRIAN SWING GATES SHALL HAVE A KICK PLATE ATTACHMENT.
7. REFER TO PLANS FOR EDGEBAND TYPE UNLESS OTHERWISE NOTED.
8. REFER TO PLANS AND DETAILS FOR FENCING WITH CURBS AND CHANGE IN ELEVATIONS.
9. CANE STOP TO GO DOWN 4" INTO CONCRETE IN CLOSED POSITION AND OPEN POSITION.
10. TACK WELD HINGES TO POSTS AT GATES.
11. DOUBLE SWING GATES THAT ARE INLINE WITH FENCING, GATE POSTS SHALL BE OFFSET FROM THE FENCE TO ALLOW SWING GATES TO OPEN A FULL 180° BACK AGAINST THE FENCE PER PLAN LAYOUT.
12. THE PIPE SIZES INDICATED ARE NPS FOR: STANDARD PIPE SCHEDULE 40.
13. ALL FENCE POSTS SET IN CONCRETE SHALL BE COATED WITH ONE COAT OF BITUMINOUS PAINT.
14. ALL DROP CANES TO HAVE A MECHANISM TO HOLD IN UP POSITION WHEN GATE IS OPEN AND/OR SWINGING. LOCATIONS FOR DROP BAR IN CLOSED AND OPEN POSITIONS TO BE PROVIDED.

A FENCE AND GATES NOTES — NTS

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
1843 Iron Point Rd. Suite 140
Folsom, CA 95630
tel: 916.415.6554
fax: 916.415.6525
www.VerdeDesigninc.com

STAMP

REGISTERED LANDSCAPE ARCHITECT — MARK S. BRUNKER — No. 4069 — EXPIRATION DATE: JULY 2023 — STATE OF CALIFORNIA

CONSULTANT

KEYMAP

SHEET TITLE
FENCING DETAILS

PROJECT NAME
HIRAM JOHNSON HIGH SCHOOL GOLF PRACTICE FACILITY, VARSITY BASEBALL AND SOFTBALL FIELDS

PROJECT ADDRESS
6879 14TH AVENUE SACRAMENTO, CA 95820

SUBMITTAL	DATE
DD 50% SUBMITTAL	04/15/22
100% DSA SUBMITTAL	05/27/22
DSA BACK CHECK	08/11/22
DSA ADDENDUM SUBMITTAL	09/16/22

NO.	REVISIONS	DATE
1	ADDENDUM	09/16/22

DRAWN BY	CHECKED BY
VDI	MB/CS
DATE ISSUED	SCALE
09/16/2022	AS NOTED
PROJ. NO.	
2203200	
SHEET NO.	
D3.1	

DRAWING NAME: Y:\Projects-FO\2022\2203200 - Hiram Johnson Golf Baseball Softball\CAD_DTL-FENCING.dwg
PLOT DATE: 09-15-22 PLOTTED BY: station27

NOT USED

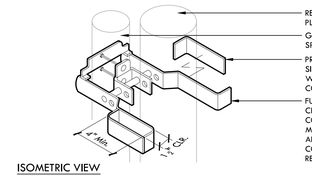
NOT USED

NOT USED

P

K

J



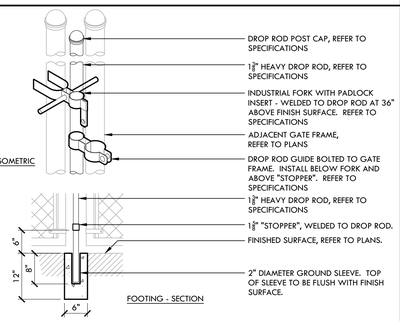
E GATE LATCH NTS

NOT USED

NOT USED

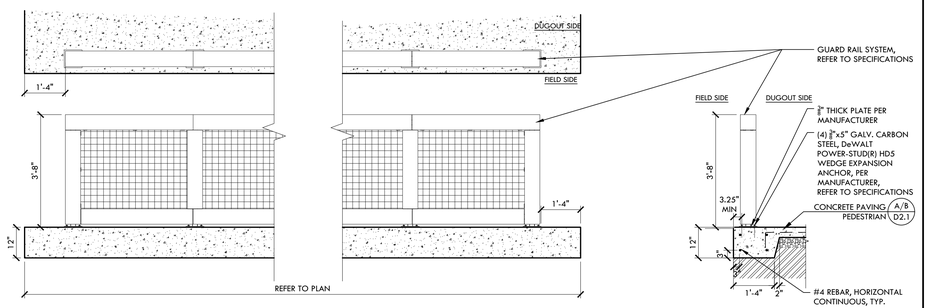
O

I



D GATE - DROP ROD NTS

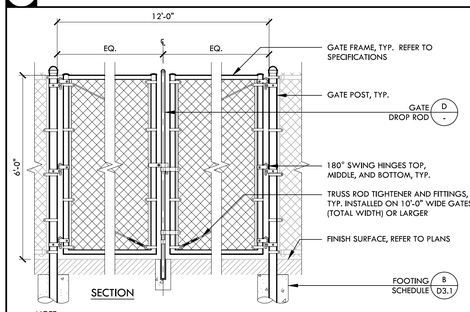
NOT USED



N

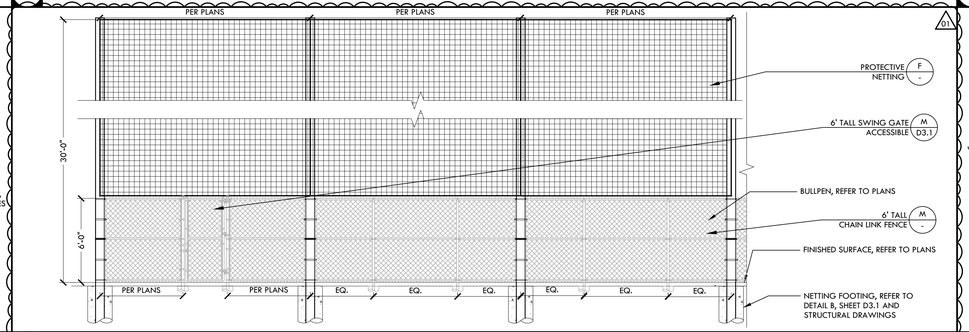
H GUARD RAIL SYSTEM NTS

C SELF-CLOSING HINGES AT CHAIN LINK GATE NTS

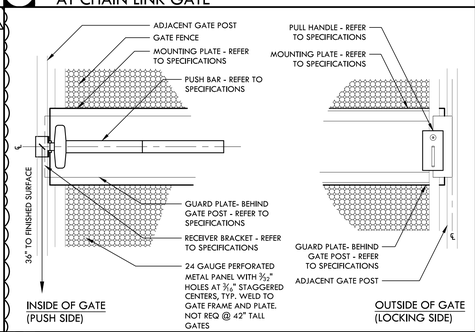


NOTE:
1. REFER TO GENERAL FENCE & GATE NOTES, DETAIL A, SHEET D3.1.

M 6' TALL - DOUBLE SWING GATE NTS

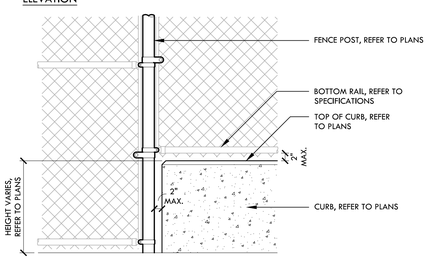


G 24' PROTECTIVE NETTING OVER 6' TALL CHAIN LINK FENCE NTS



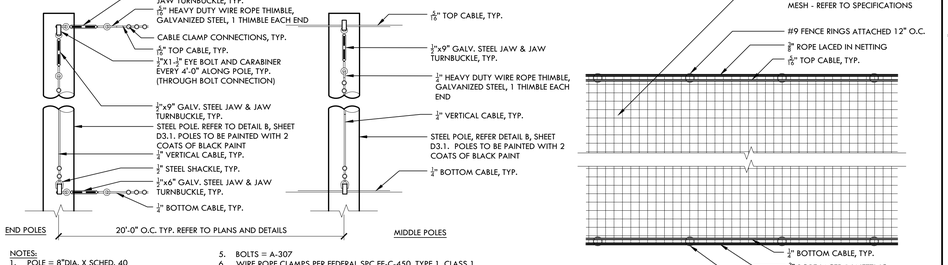
B ACCESSIBLE PANIC BAR AND LEVER - CHAIN LINK FENCE NTS

ELEVATION



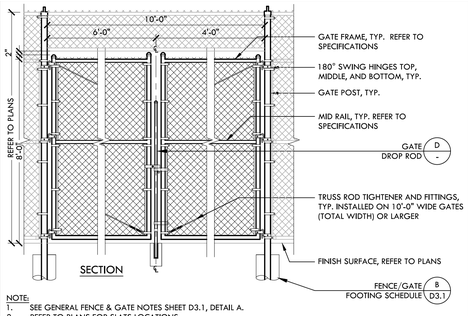
NOTE:
1. SEE GENERAL FENCE & GATE NOTES THIS SHEET D3.1, DETAIL A.

L CHAIN LINK FENCE AT CURB STEP NTS



NOTES:
1. POLE = 8"DIA. X SCHED. 40 MIN YIELD STRENGTH TO BE 35KSI
2. MAX SPACING = 20' O.C.
3. STRUCTURAL STEEL = ASTM A-36
4. STEEL PIPE /TUBE = ASTM A-53 GRADE B
5. BOLTS = A-307
6. WIRE ROPE CLAMPS PER FEDERAL SPC FF-C-450, TYPE 1, CLASS 1
7. CABLE = ASTM A-603 6X19 WIRE ROPE
8. NETTING FABRICATOR PER SPECIFICATIONS
9. FOR POLE FOOTING INFORMATION REFER TO STRUCTURAL DRAWINGS

F PROTECTIVE NETTING NTS



NOTE:
1. SEE GENERAL FENCE & GATE NOTES SHEET D3.1, DETAIL A.
2. REFER TO PLANS FOR SLATS LOCATIONS.

A 8' TALL BY 10' WIDE DOUBLE SWING GATE - MIXED LEAF WITH TRANSOM NTS

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REGISTERED LANDSCAPE ARCHITECT
MARK S. BRUNKER
No. 4069
EXPIRATION DATE: JULY 2023
STATE OF CALIFORNIA

CONSULTANT

KEYMAP

SHEET TITLE
FENCING DETAILS

PROJECT NAME
HIRAM JOHNSON HIGH SCHOOL GOLF PRACTICE FACILITY, VARSITY BASEBALL AND SOFTBALL FIELDS

PROJECT ADDRESS
6879 14TH AVENUE SACRAMENTO, CA 95820

SUBMITTAL	DATE
DD 50% SUBMITTAL	04/15/22
100% DSA SUBMITTAL	05/27/22
DSA BACK CHECK	08/11/22
DSA ADDENDUM SUBMITTAL	09/16/22

NO.	REVISIONS	DATE
1	ADDENDUM	09/16/22

DRAWN BY	CHECKED BY
VDI	MB/CS
DATE ISSUED	SCALE
09/16/2022	AS NOTED

PROJ. NO.
2203200

SHEET NO.
D3.2

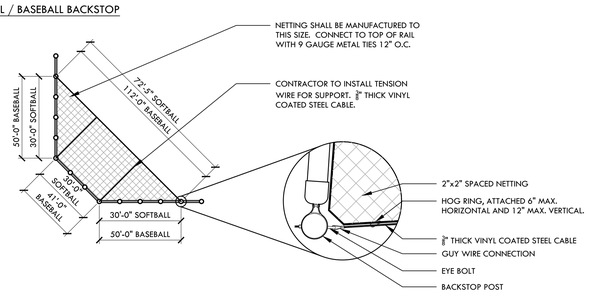
DRAWING NAME: Y:\Projects-FO\2022\2203200 - Hiram Johnson Golf Baseball Softball\CAD_DTL-FENCING.dwg
PLOT DATE: 09-15-22 PLOTTED BY: station27

E

D

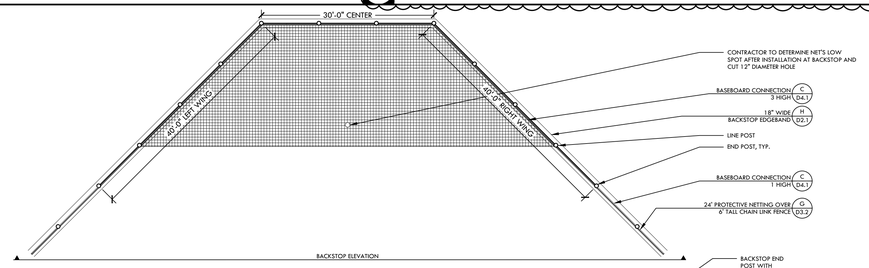
C

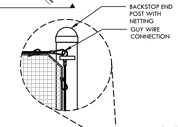
PLAN - SOFTBALL / BASEBALL BACKSTOP

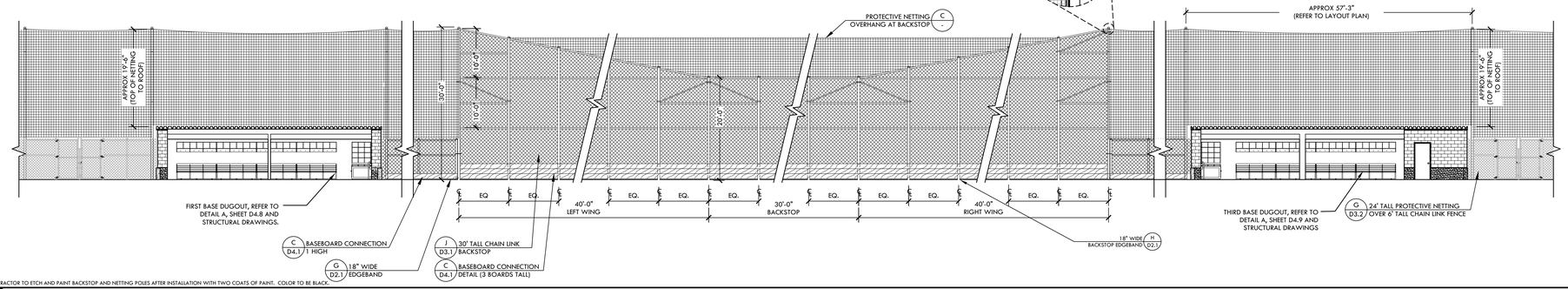


NOTES:
1. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS.
2. EYE BOLT TO BE INSTALLED AT BOTH END POSTS WITH ATTACHED GUY WIRE CONNECTION.
3. NETS TO BE FINISHED IN THE FIELD. CONTRACTOR TO PULL TIGHT AND CUT/BOUND IN THE FIELD ALONG THE TOP OF THE BACKSTOP. NETTING SECURED EITHER WITH ZIP TIES OR LASHING, AND THEN CUT THE EXCESS OFF, LEAVING A FINISHED SEAM AT THE TOP OF THE BACKSTOP.

PROTECTIVE NETTING OVERHANG AT BACKSTOP (OPTIONAL) NTS

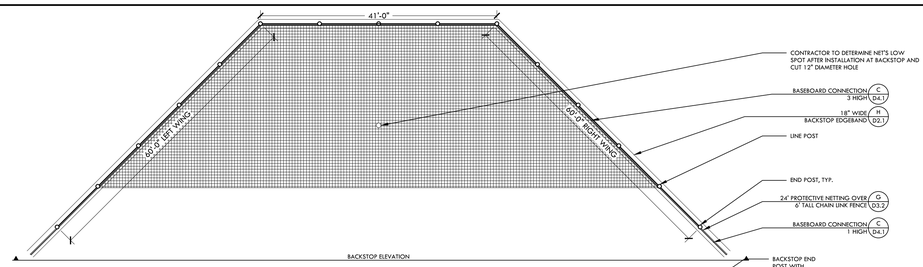


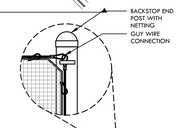


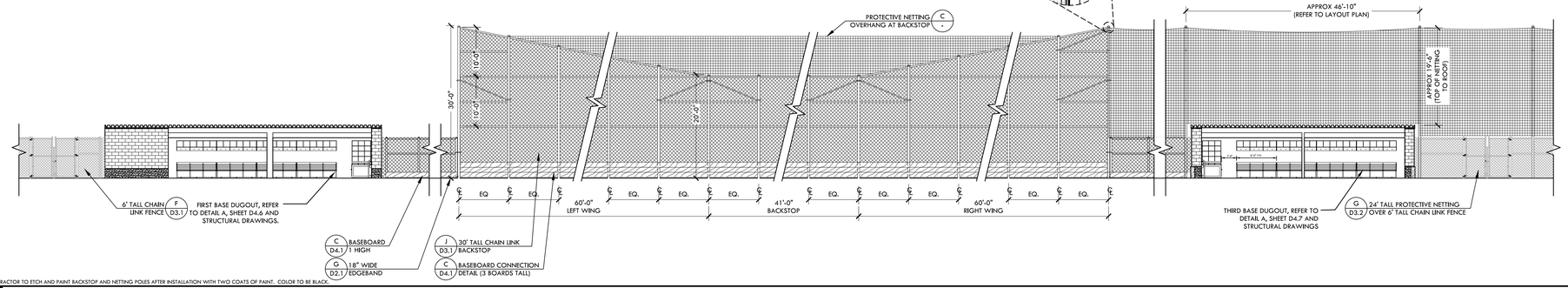


NOTES:
1. CONTRACTOR TO ETCH AND PAINT BACKSTOP AND NETTING POLES AFTER INSTALLATION WITH TWO COATS OF PAINT. COLOR TO BE BLACK.

B SOFTBALL BACKSTOP ELEVATION NTS







NOTES:
1. CONTRACTOR TO ETCH AND PAINT BACKSTOP AND NETTING POLES AFTER INSTALLATION WITH TWO COATS OF PAINT. COLOR TO BE BLACK.

A BASEBALL BACKSTOP ELEVATION NTS

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PROJ. NO. 2203200

SHEET NO. D3.3

DRAWING NAME: Y:\Projects-FO\2022\2203200 - Hiram Johnson Golf Baseball Softball\CAD_DTL-FENCING.dwg
PLOT DATE: 09-15-22 PLOTTED BY: station27

NOT USED

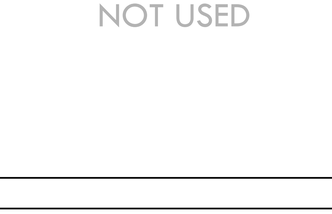
M

NOT USED

L

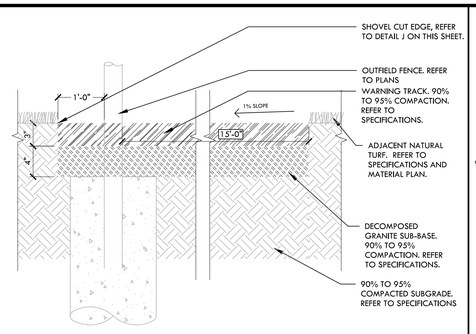
NOT USED

K

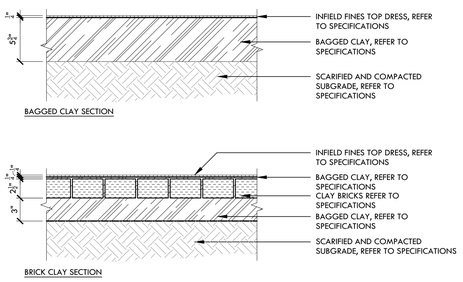


NOTE:
FINES TO EXTEND 1'-0" BEYOND FENCE (WHERE APPLICABLE) AND TERMINATE W/ SHOVEL CUT EDGE.

J SHOVEL CUT EDGE NTS



I WARNING TRACK FINES NTS

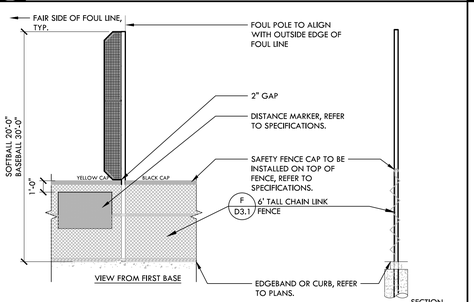


BAGGED CLAY SECTION

BRICK CLAY SECTION

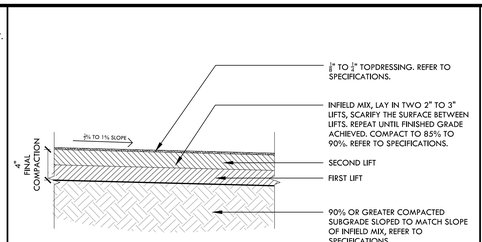
NOTE:
ALL CLAY LAYERS TO BE TAMPED AND COMPACTED PRIOR TO NEXT LEVEL INSTALL.

H INFIELD FINES OVER CLAY NTS

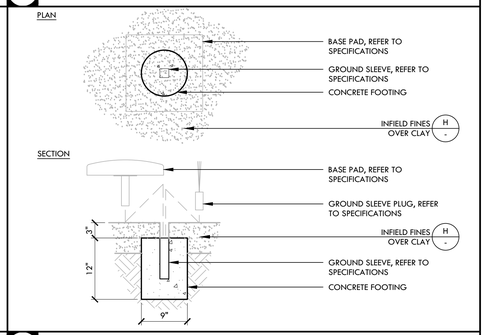


NOTE:
CONTRACTOR TO VERIFY FOUL POLE FOOTING TYPE AND INSTALL PER MANUFACTURER'S RECOMMENDATION.

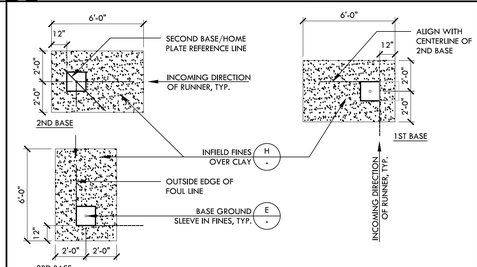
G FOUL POLE NTS



F INFIELD FINES NTS

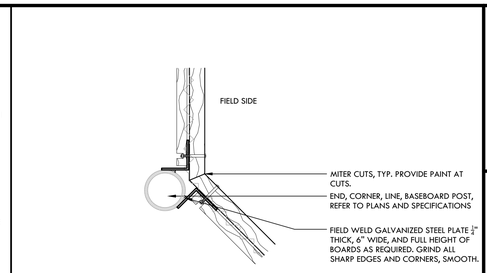


E BASE GROUND SLEEVE IN FINES NTS

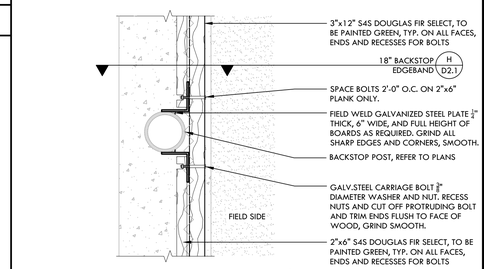


NOTES:
1. PEGS LOCATED CENTERED ON BASE, 7" FROM INTERSECTION OF BASE LINE FOR 1ST AND 3RD BASES.
2. PEGS LOCATED ON INTERSECTION OF BASE LINE FOR 2ND BASE.
3. DETAIL PROVIDED FOR LOCATION ONLY.

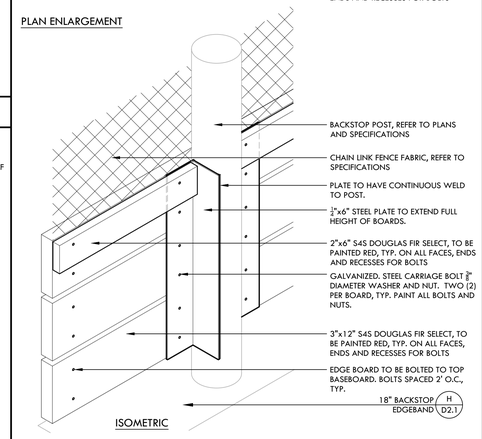
D BASE PAD LOCATION NTS



PLAN ENLARGEMENT



PLAN ENLARGEMENT



ISOMETRIC

C BASE BOARD CONNECTION DETAIL NTS

NOT USED

NOT USED

B

A

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REGISTERED LANDSCAPE ARCHITECT
MARK S. BRAUNER
No. 4098
EXPIRATION DATE: JULY 2023
STATE OF CALIFORNIA

CONSULTANT

KEYMAP

SHEET TITLE
CONSTRUCTION DETAILS - BALL FIELDS

PROJECT NAME
HIRAM JOHNSON HIGH SCHOOL
GOLF PRACTICE FACILITY, VARSITY BASEBALL AND SOFTBALL FIELDS

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6879 14TH AVENUE
SACRAMENTO, CA 95820

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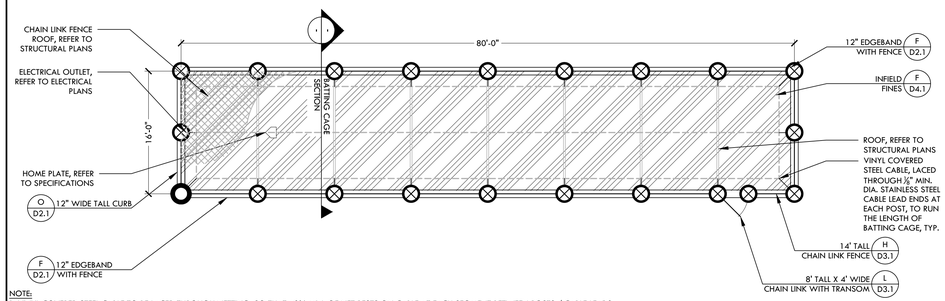
PROJ. NO. 2203200

SHEET NO. D4.1

NOT USED

NOT USED

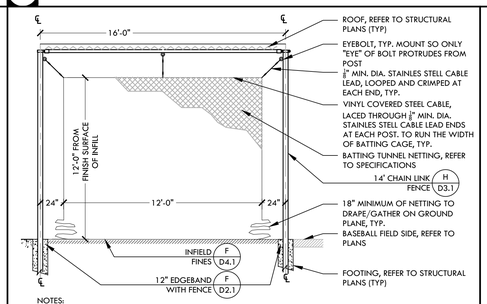


NOTE:
1. VINYL COVERED STEEL CABLE TO BE LACED THROUGH NETTING, SO THAT 40% MIN. OF NET RESTS ON CABLE AT EACH SEGMENT BETWEEN POSTS / CABLE LEADS.
2. CHAIN LINK FENCE FABRIC INSTALLED ON TOP OF BATTING CAGE.

O J **E BASEBALL BATTING CAGE - PLAN** NTS

NOT USED

NOT USED

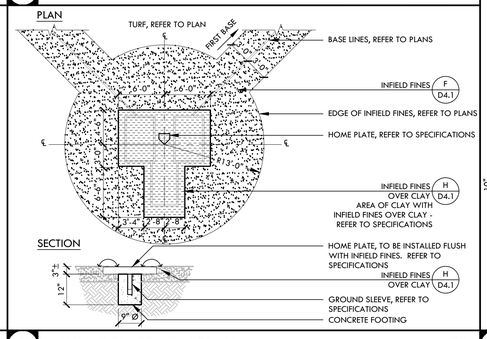


NOTES:
1. FENCE FABRIC TO BE ON THE INSIDE EXCEPT WHEN AT FIELD SIDE.
2. REFER TO STRUCTURAL DRAWINGS FOR MORE INFORMATION.

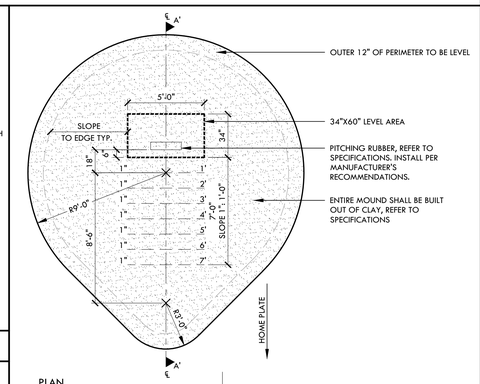
N I **D BATTING CAGE - SECTION** NTS

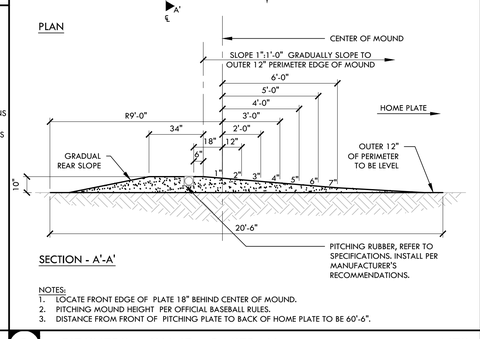
NOT USED

NOT USED



M H **C HOME PLATE - BASEBALL** NTS





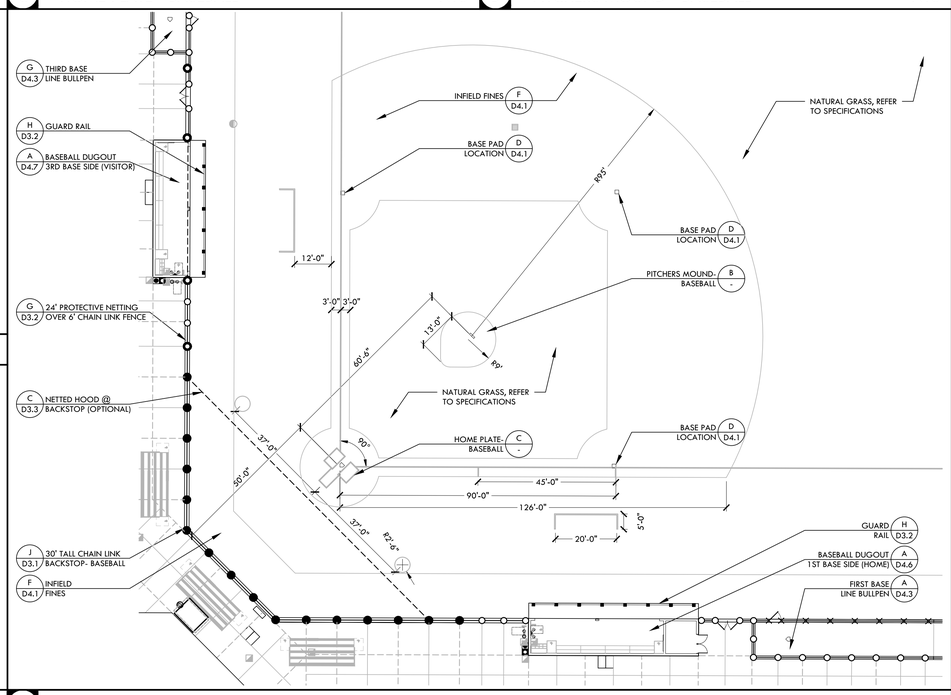
SECTION - A'-A'

NOTES:
1. LOCATE FRONT EDGE OF PLATE 18" BEHIND CENTER OF MOUND.
2. PITCHING MOUND HEIGHT PER OFFICIAL BASEBALL RULES.
3. DISTANCE FROM FRONT OF PITCHING PLATE TO BACK OF HOME PLATE TO BE 60'-6".

B **PITCHERS MOUND - BASEBALL** NTS

NOT USED

NOT USED



L G

NOT USED

NOT USED

NOT USED

NOT USED

K F **A BASEBALL INFIELD** NTS

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6879 14TH AVENUE
SACRAMENTO, CA 95820

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DRAWING NAME: Y:\Projects-FO\2022\2203200 — Hiram Johnson Golf Baseball Softball\CAD_DTL-BASEBALL AND SOFTBALL.dwg
PLOT DATE: 09-15-22 PLOTTED BY: station27

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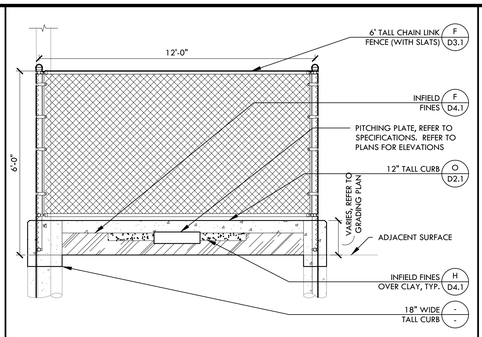
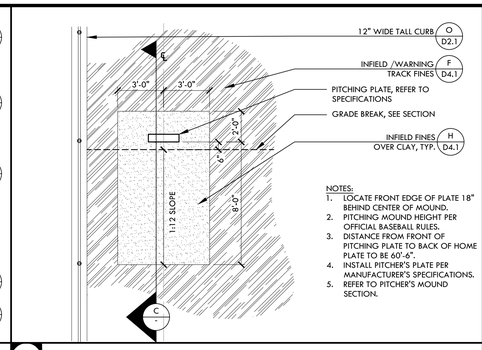


N

K

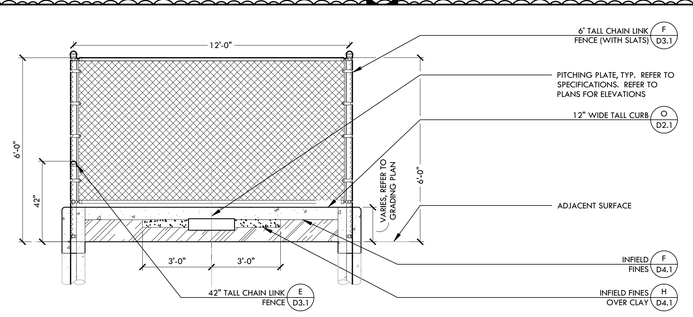
F BASEBALL BULLPEN (3RD BASE) - SECTION NTS



E PITCHING MOUND IN BULLPEN - BASEBALL NTS

NOT USED

NOT USED



M

J

D BASEBALL BULLPEN (1ST BASE) - SECTION NTS

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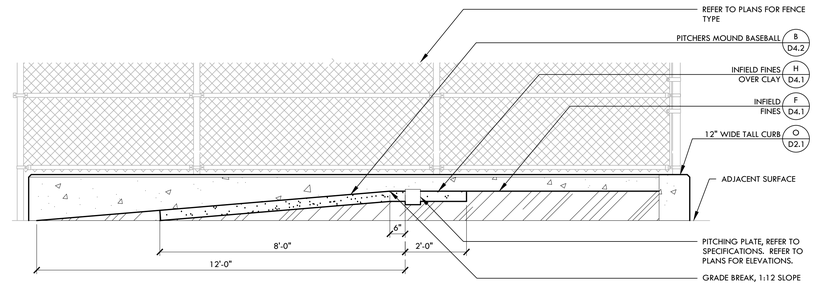
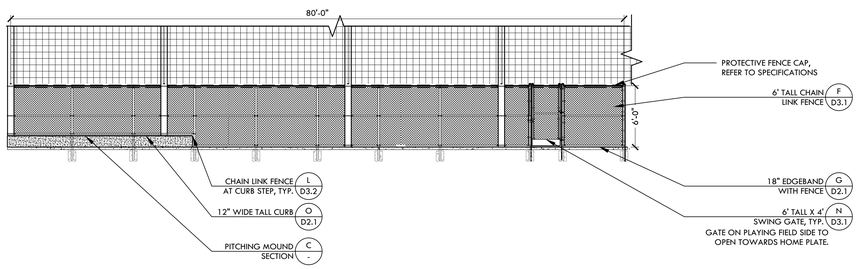


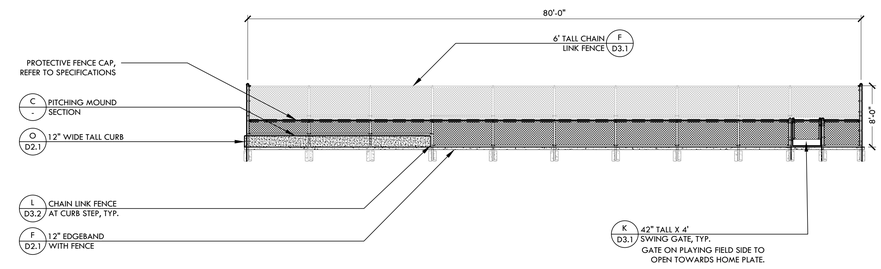
L

I

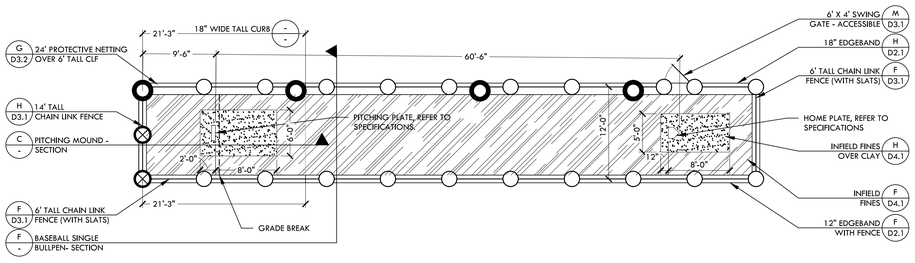
C PITCHING MOUND - SECTION NTS



H BASEBALL BULLPEN (3RD BASE) - ELEVATION NTS

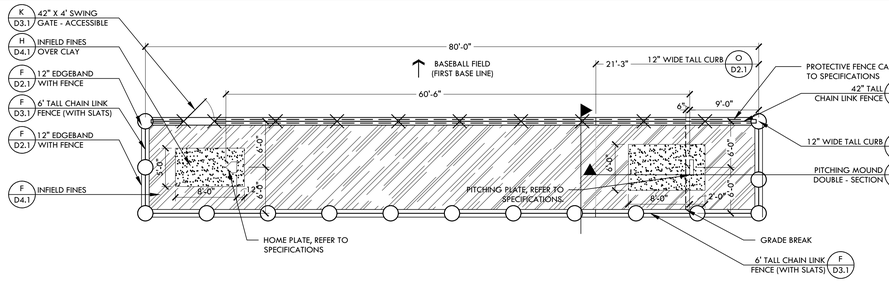


B BASEBALL BULLPEN (1ST BASE) - ELEVATION NTS



NOTE:
1. FENCE FABRIC TO BE ON INSIDE OF BULLPEN EXCEPT AT FIELD SIDE
2. GATE ON PLAYING FIELD SIDE TO OPEN TOWARDS HOME PLATE.

G BASEBALL BULLPEN (3RD BASE) - PLAN NTS



NOTE:
1. FENCE FABRIC TO BE ON INSIDE OF BULLPEN EXCEPT AT FIELD SIDE
2. GATE ON PLAYING FIELD SIDE TO OPEN TOWARDS HOME PLATE.

A BASEBALL BULLPEN (1ST BASE) - PLAN NTS

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PLOT DATE: 09-15-22 PLOTTED BY: station27

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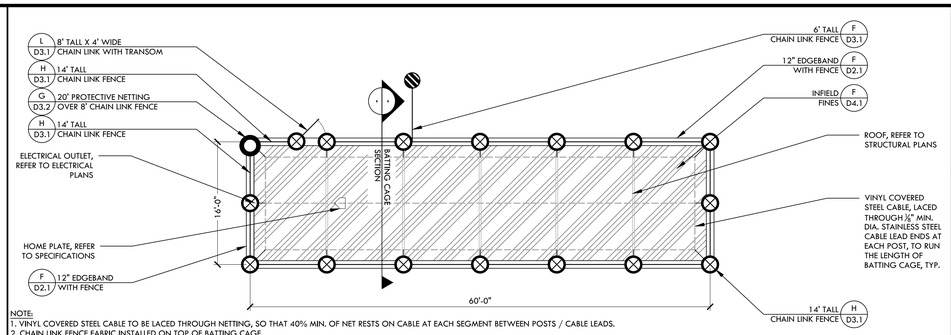


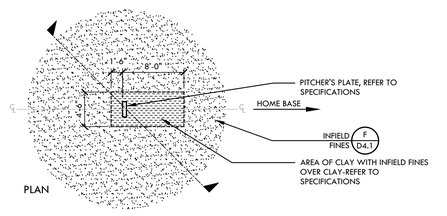
NOTE:
1. VINYL COVERED STEEL CABLE TO BE LACED THROUGH NETTING, SO THAT 40% MIN. OF NET RESTS ON CABLE AT EACH SEGMENT BETWEEN POSTS / CABLE LEADS.
2. CHAIN LINK FENCE FABRIC INSTALLED ON TOP OF BATTING CAGE.

O J E SOFTBALL BATTING CAGE - PLAN NTS

NOT USED

NOT USED

NOT USED



N I D C PITCHERS AREA - SOFTBALL NTS

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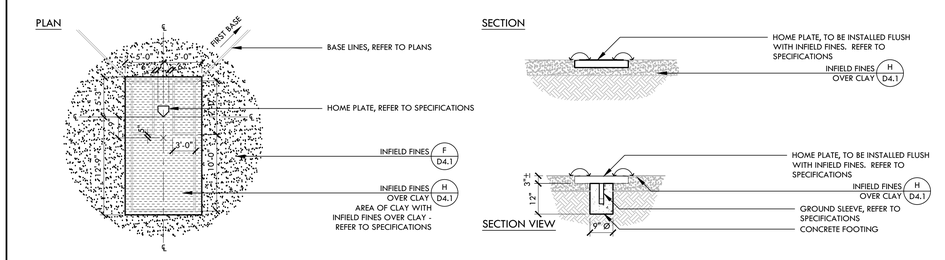

M H B HOME PLATE - SOFTBALL NTS

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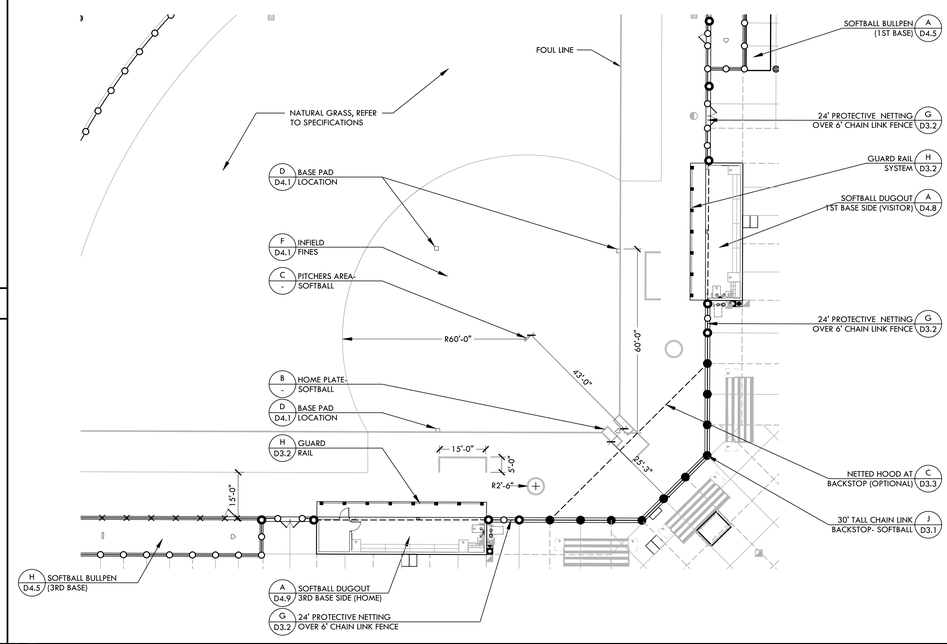
NOT USED



K F A SOFTBALL INFIELD NTS

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SPORT PLANNING & DESIGN
1843 Iron Point Rd. Suite 140
Folsom, CA 95630
tel: 916.415.6554
fax: 916.415.6525
www.VerdeDesigninc.com

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REGISTERED LANDSCAPE ARCHITECT
MARK S. BRAUNER
No. 4069
EXPIRATION DATE: JULY 2023
STATE OF CALIFORNIA

CONSULTANT

KEYMAP

SHEET TITLE
CONSTRUCTION DETAILS - SOFTBALL

PROJECT NAME
HIRAM JOHNSON HIGH SCHOOL
GOLF PRACTICE FACILITY, VARSITY BASEBALL AND SOFTBALL FIELDS

PROJECT ADDRESS
6879 14TH AVENUE
SACRAMENTO, CA 95820

SUBMITTAL	DATE
DD 50% SUBMITTAL	04/15/22
100% DSA SUBMITTAL	05/27/22
DSA BACK CHECK	08/11/22
DSA ADDENDUM SUBMITTAL	09/16/22

NO.	REVISIONS	DATE
1	ADDENDUM	09/16/22

DRAWN BY	CHECKED BY
VDI	MB/CS
DATE ISSUED	SCALE
09/16/2022	AS NOTED

PROJ. NO. 2203200

SHEET NO. D4.4

DRAWING NAME: V:\Projects-FO\2022\2203200 - Hiram Johnson Golf Baseball Softball\CAD_DTL-BASEBALL AND SOFTBALL.dwg
PLOT DATE: 09-15-22 PLOTTED BY: station27

NOT USED

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NOT USED

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NOT USED

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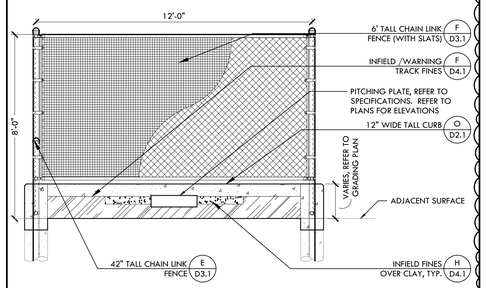
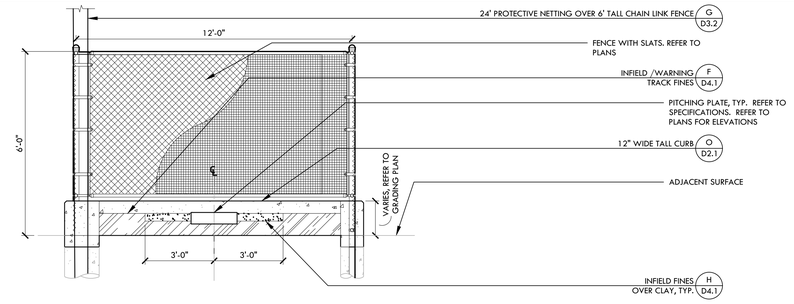
J SOFTBALL BULLPEN (3RD BASE) - SECTION NTS



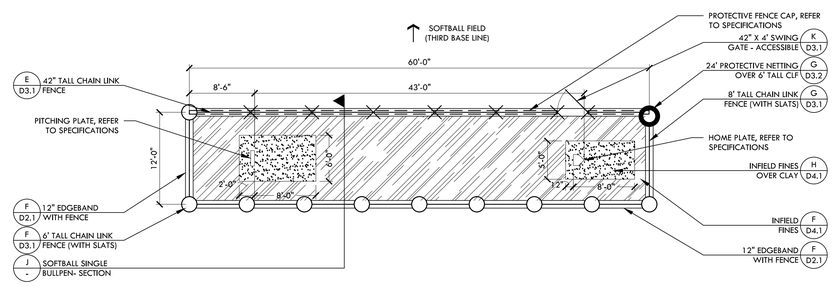
C SOFTBALL BULLPEN (1ST BASE) - SECTION NTS



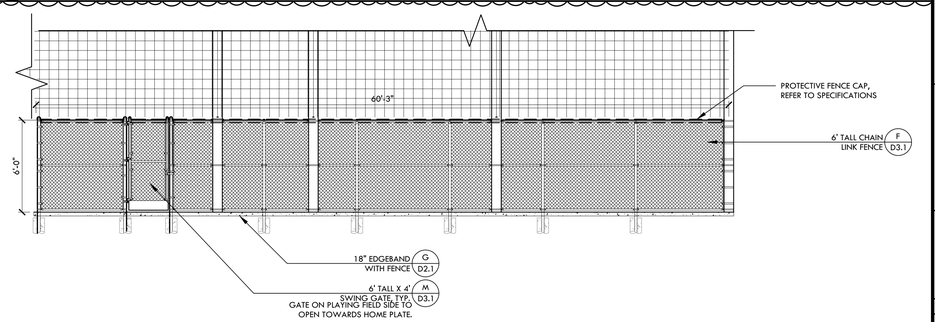
I

B

I SOFTBALL BULLPEN (3RD BASE) - ELEVATION NTS



B SOFTBALL BULLPEN (1ST BASE) - ELEVATION NTS

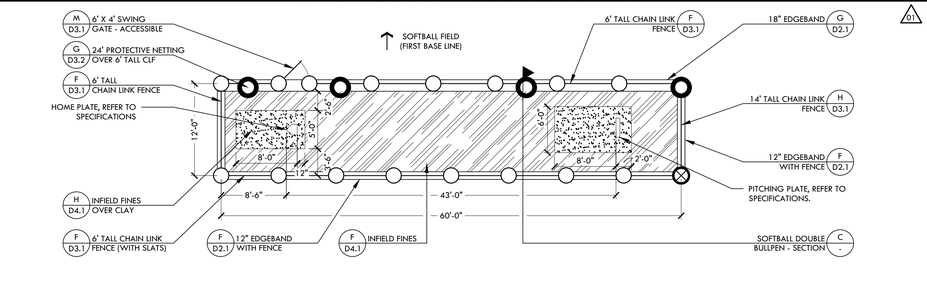


H

H SOFTBALL BULLPEN (3RD BASE) - PLAN NTS

A

A SOFTBALL BULLPEN (1ST BASE) - PLAN NTS



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No. 4069
EXPIRATION DATE: JULY 2023
STATE OF CALIFORNIA

CONSULTANT

KEYMAP

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HIRAM JOHNSON HIGH SCHOOL
GOLF PRACTICE FACILITY, VARSITY BASEBALL AND SOFTBALL FIELDS

PROJECT ADDRESS
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SACRAMENTO, CA 95820

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NO.	REVISIONS	DATE
1	ADDENDUM	09/16/22

DRAWN BY	CHECKED BY
VDI	MB/CS
DATE ISSUED	SCALE
09/16/2022	AS NOTED
PROJ. NO.	
2203200	
SHEET NO.	
D4.5	

CONSTRUCTION DETAIL - SOFTBALL

DRAWING NAME: Y:\Projects-FO\2022\2203200 - Hiram Johnson Golf Baseball Softball\CAD_DTL-BASEBALL AND SOFTBALL.dwg
PLOT DATE: 09-15-22 PLOTTED BY: station27

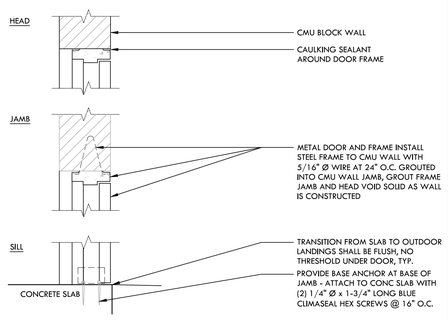
DOOR AND FRAME SCHEDULE						
DOOR NO.	DOOR WIDTH	DOOR HEIGHT	DOOR THICK.	DOOR MATERIAL	FRAME MATERIAL	FRAME RATING
A	DBL. 3'-0"	7'-0"	1-3/4"	MTL.	STEEL	NONE
B	3'-0"	7'-0"	1-3/4"	MTL.	STEEL	NONE

NOTES:
1. CONTRACTOR SHALL VERIFY ALL DOOR SIZES AND ROUGH OPENINGS IN FIELD PRIOR TO ORDERING.
2. VERIFY ALL DOORS, FRAMES AND HARDWARE WITH OWNER.
3. DOOR HARDWARE AT ALL EXIT DOOR SHALL ALLOW DOORS TO BE OPENED FROM THE INSIDE WITHOUT A KEY, SPECIAL KNOWLEDGE, OR EFFORT PER CBC 1010.9.1.
4. MAXIMUM DOOR OPENING EFFORTS SHALL BE 5 LBS AT EXTERIOR DOORS
5. ALL DOORS SHALL BE EQUIPPED WITH SINGLE EFFORT, NON-GRASP HARDWARE (LE LEVER) CENTERED BETWEEN 30" AND 44" ABOVE THE FLOOR.
6. ALL DOORS SHALL HAVE A 10" HIGH MINIMUM FLAT SURFACE AT THE DOOR BOTTOM TO BE USED AS A KICKPLATE, NO GLAZING.
7. DOORS SHALL HAVE KEYED OPERATED LOCKING DEVICES ONLY ACTIVE FROM THE EXTERIOR.
8. ALL DOORS SHALL BE PROVIDED WITH FLOOR MOUNTED DOME STOPS LOCATED NEAR WALL FOR DOOR TO OPEN 175°.

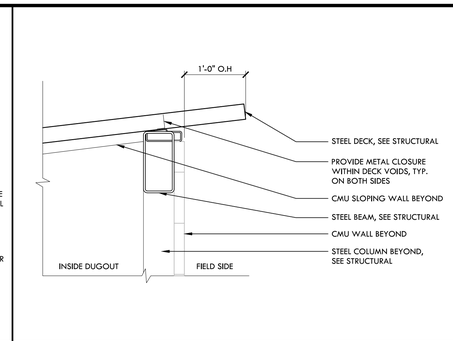
HARDWARE DOOR 'A'
LOCKET SET: STOREROOM LOCK, SCHLAGE ND96PD, RHODES
CYLINDER: SCHLAGE 20-765 PRIMUS
HINGES: HAGER BB1199 STAINLESS, 2 PAIRS
CLOSER: NORTON PR7500DA
STOP: TRIMCO #1260W
LOCKGUARD: BLP 107-630
FLUSH BOLTS: IVES 262

HARDWARE DOOR 'B'
LOCKET SET: STOREROOM LOCK, SCHLAGE ND96PD, RHODES
CYLINDER: SCHLAGE 20-765 PRIMUS
HINGES: HAGER BB1199 STAINLESS, 2 PAIRS
CLOSER: NORTON PR7500DA
STOP: TRIMCO #1260W
LOCKGUARD: BLP 107-630
FLUSH BOLTS: IVES 262
ASTRAGAL: PEMKO 305CN

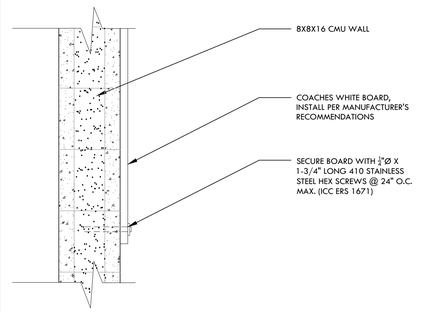
I DOOR FRAME AND SCHEDULE NTS



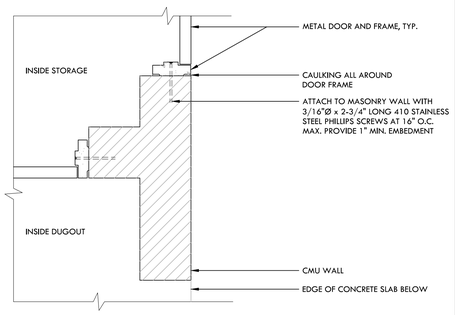
G DOOR HEAD AND THRESHOLD NTS



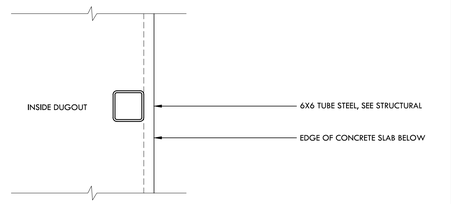
E EAVE DETAIL NTS



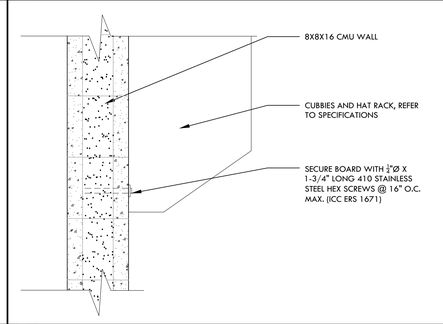
C WHITE BOARD FASTENING NTS



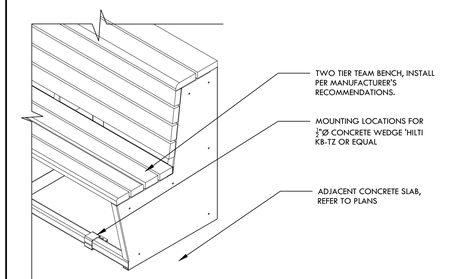
H MAN DOOR JAMB DETAIL NTS



F MID COLUMN SUPPORT NTS

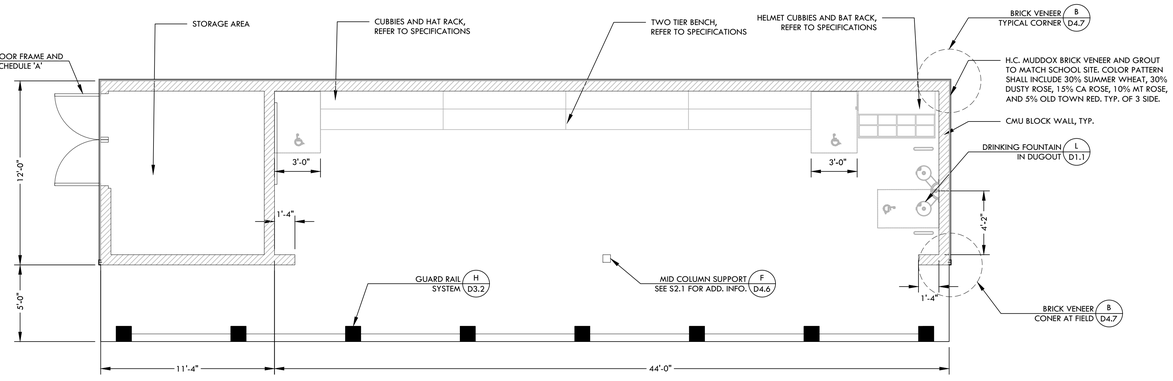


D CUBBIE FASTENING NTS



NOTE:
SEE STRUCTURAL PLANS FOR WEDGE ANCHOR SPECIFICATIONS AND MINIMUM EMBEDMENT.

B TWO TIER BENCH NTS



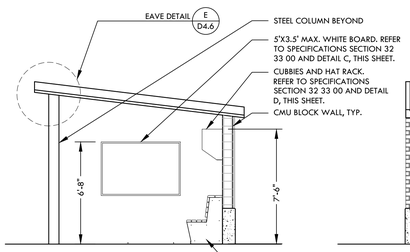
DUGOUT PLAN VIEW

NOTES:
1. APPLY BLOCK FILLER PRIOR TO PAINTING, REFER TO SPECIFICATIONS.
2. REFER TO STRUCTURAL DRAWINGS FOR MORE INFORMATION.
3. REFER TO ELECTRICAL DRAWINGS FOR OUTLET AND LIGHTING INFORMATION.

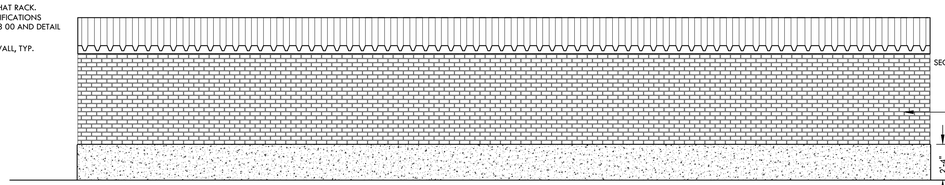
OCCUPANCY COUNT

DUGOUT:
AREA: 462 SF
OCCUPANCY: A-5
LOAD FACTOR: 1/5 S.F.
OCCUPANT LOAD: 32

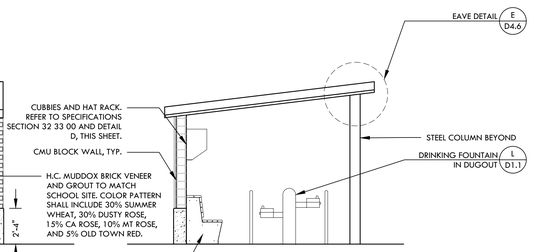
STORAGE:
AREA: 106 SF
OCCUPANCY: A-5
LOAD FACTOR: 1/300 S.F.
OCCUPANT LOAD: 1



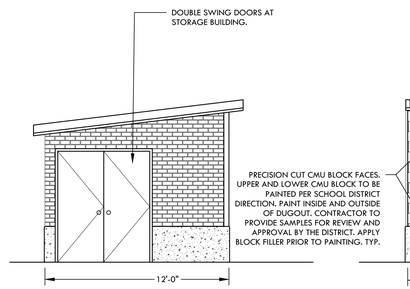
DUGOUT LEFT INTERIOR WALL



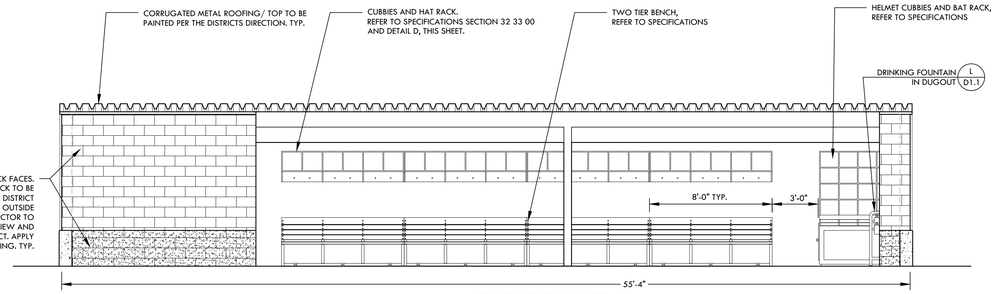
BACK EXTERIOR ELEVATION



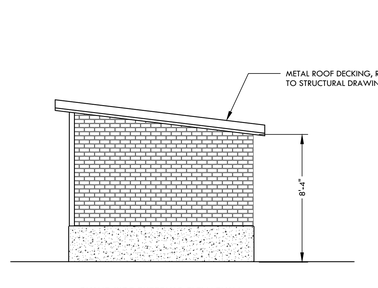
DUGOUT RIGHT INTERIOR WALL



LEFT SIDE EXTERIOR ELEVATION



FRONT EXTERIOR ELEVATION



RIGHT SIDE EXTERIOR ELEVATION

A BASEBALL DUGOUT - 1ST BASE SIDE (HOME) NTS

VERDE DESIGN
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CIVIL ENGINEERING
SPORT PLANNING & DESIGN
1843 Iron Point Rd. Suite 140
Folsom, CA 95630
tel: 916.415.6554
fax: 916.415.6525
www.VerdeDesigninc.com

STAMP
REGISTERED LANDSCAPE ARCHITECT
MARK S. BRUNKER
No. 4069
EXPIRATION DATE: JULY 2023
STATE OF CALIFORNIA

CONSULTANT

KEYMAP

SHEET TITLE
CONSTRUCTION DETAILS - BASEBALL DUGOUTS

PROJECT NAME
HIRAM JOHNSON HIGH SCHOOL
GOLF PRACTICE FACILITY, VARSITY BASEBALL AND SOFTBALL FIELDS

PROJECT ADDRESS
6879 14TH AVENUE
SACRAMENTO, CA 95820

SUBMITTAL	DATE
DD 50% SUBMITTAL	04/15/22
100% DSA SUBMITTAL	05/27/22
DSA BACK CHECK	08/11/22
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NO.	REVISIONS	DATE
1	ADDENDUM	09/16/22

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DATE ISSUED	SCALE
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PROJ. NO.	
2203200	
SHEET NO.	
D4.6	

DRAWING NAME: Y:\Projects-FO\2022\2203200 - Hiram Johnson Golf Baseball Softball\CAD_DTL-BASEBALL AND SOFTBALL.dwg
PLOT DATE: 09-15-22 PLOTTED BY: station27

NOT USED

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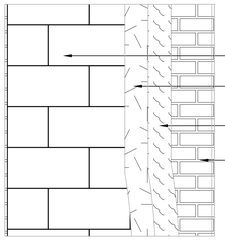
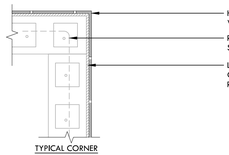
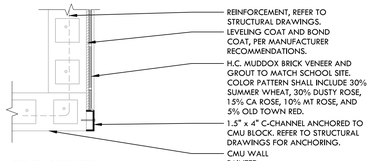


VENEER INSTALLATION

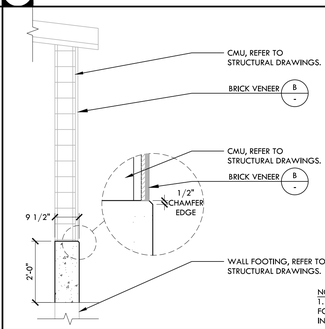


TYPICAL CORNER



CORNER AT FIELD SIDES

C CONCRETE WALL AT DUGOUT NTS



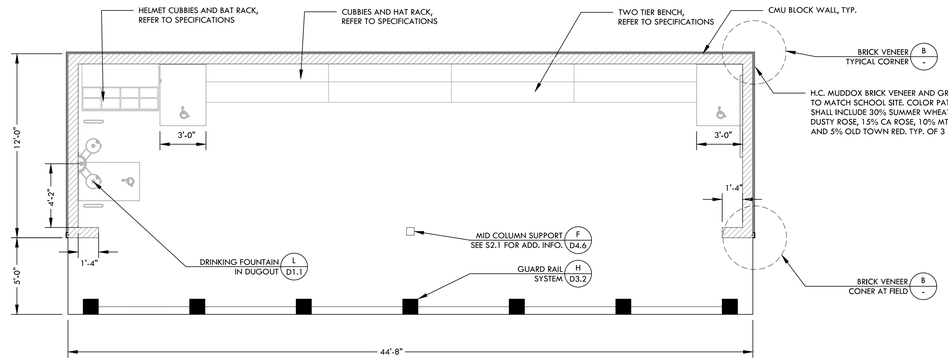
NOTE:
1. REFER TO STRUCTURAL DRAWINGS FOR FOOTING AND REINFORCEMENT INFORMATION.

B BRICK VENEER NTS

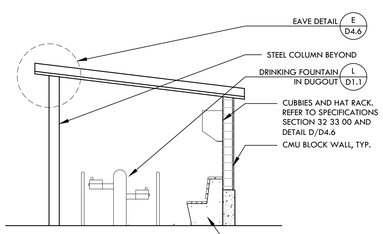
NOTES:
1. APPLY BLOCK FILLER PRIOR TO PAINTING, REFER TO SPECIFICATIONS.
2. REFER TO STRUCTURAL DRAWINGS FOR MORE INFORMATION.
3. REFER TO ELECTRICAL DRAWINGS FOR OUTLET AND LIGHTING INFORMATION.

OCCUPANCY COUNT

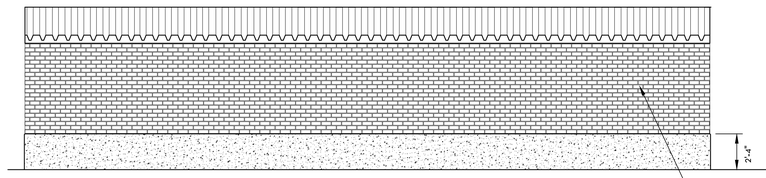
DUGOUT:
AREA: 462 SF
OCCUPANCY: A-5
LOAD FACTOR: 1/5 S.F.
OCCUPANT LOAD: 32



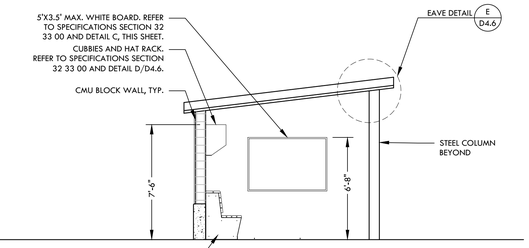
DUGOUT PLAN VIEW



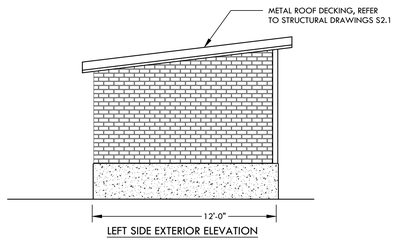
DUGOUT LEFT INTERIOR WALL



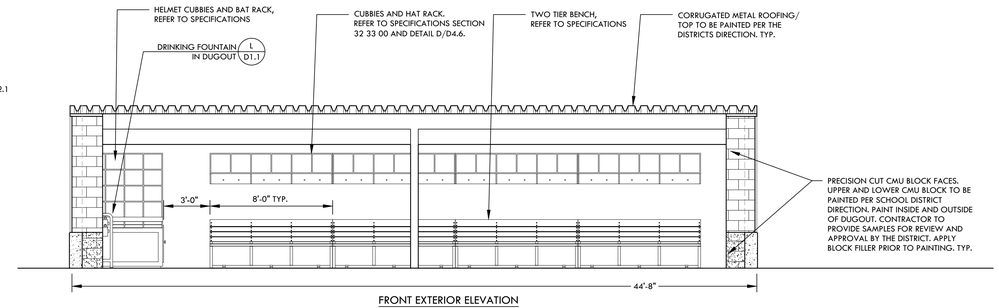
BACK EXTERIOR ELEVATION



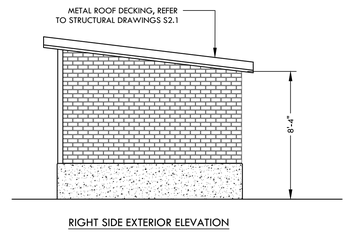
DUGOUT RIGHT INTERIOR WALL



LEFT SIDE EXTERIOR ELEVATION



FRONT EXTERIOR ELEVATION



RIGHT SIDE EXTERIOR ELEVATION

A BASEBALL DUGOUT - 3RD BASE SIDE (VISITOR) NTS

VERDE DESIGN
LANDSCAPE ARCHITECTURE
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CONSULTANT

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SHEET NO.	
D4.7	

CONSTRUCTION DETAIL - BASEBALL DUGOUTS

DRAWING NAME: Y:\Projects-FO\2022\2203200 - Hiram Johnson Golf Baseball Softball\CAD_DTL-BASEBALL AND SOFTBALL.dwg
PLOT DATE: 09-15-22 PLOTTED BY: station27

NOT USED

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NOT USED

NOT USED

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NOT USED

NOT USED

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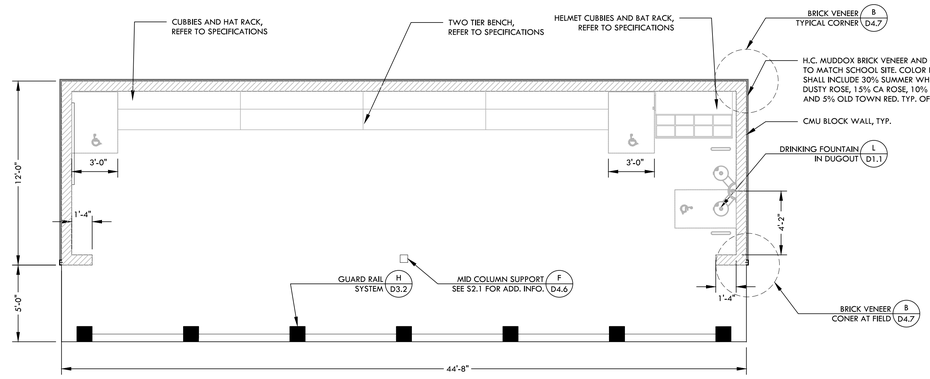

DUGOUT PLAN VIEW

NOTES:
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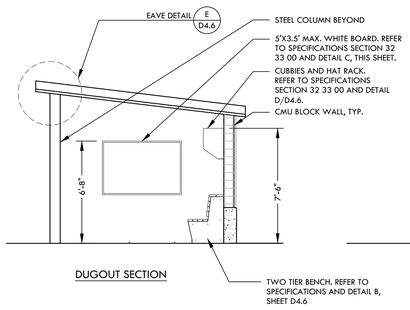
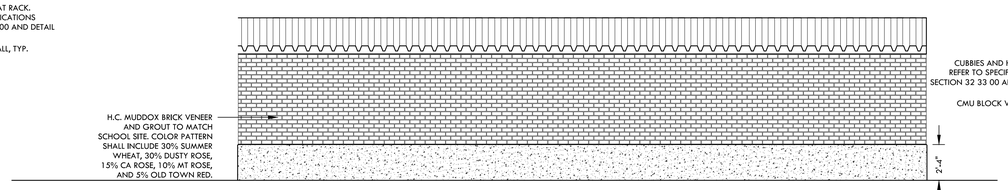
3. REFER TO ELECTRICAL DRAWINGS FOR OUTLET AND LIGHTING INFORMATION.

OCCUPANCY COUNT

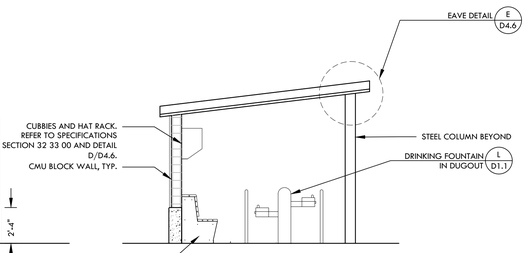
DUGOUT:
AREA: 462 SF
OCCUPANCY: A-5
LOAD FACTOR: 1/5 S.F.
OCCUPANT LOAD: 32



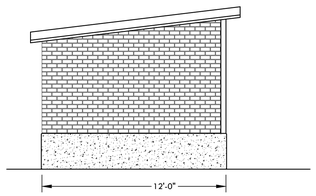
DUGOUT SECTION



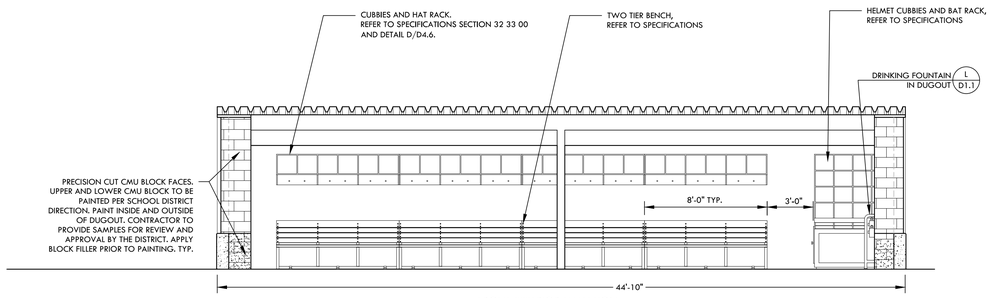
BACK EXTERIOR ELEVATION



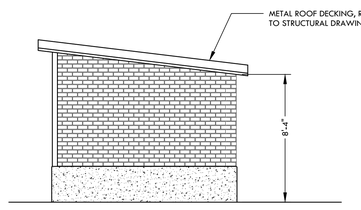
DUGOUT RIGHT INTERIOR WALL



LEFT SIDE EXTERIOR ELEVATION



FRONT EXTERIOR ELEVATION



RIGHT SIDE EXTERIOR ELEVATION

D1

A SOFTBALL DUGOUT - 1ST BASE SIDE (VISITOR) NTS

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
1843 Iron Point Rd. Suite 140
Folsom, CA 95630
tel: 916.415.6554
fax: 916.415.6525
www.VerdeDesigninc.com

STAMP

REGISTERED LANDSCAPE ARCHITECT
MARK S. BRUNKER
No. 4069
EXPIRATION DATE: JULY 2023
STATE OF CALIFORNIA

CONSULTANT

KEYMAP

SHEET TITLE
CONSTRUCTION DETAILS - SOFTBALL DUGOUTS

PROJECT NAME
HIRAM JOHNSON HIGH SCHOOL
GOLF PRACTICE FACILITY, VARSITY BASEBALL AND SOFTBALL FIELDS

PROJECT ADDRESS
6879 14TH AVENUE
SACRAMENTO, CA 95820

SUBMITTAL	DATE
DD 50% SUBMITTAL	04/15/22
100% DSA SUBMITTAL	05/27/22
DSA BACK CHECK	08/11/22
DSA ADDENDUM SUBMITTAL	09/16/22

NO.	REVISIONS	DATE
1	ADDENDUM	09/16/22

DRAWN BY	CHECKED BY
VDI	MB/CS
DATE ISSUED	SCALE
09/16/2022	AS NOTED
PROJ. NO.	
2203200	
SHEET NO.	
D4.8	

CONSTRUCTION DETAIL - SOFTBALL DUGOUTS

DRAWING NAME: Y:\Projects-FO\2022\2203200 - Hiram Johnson Golf Baseball Softball\CAD_DTL-BASEBALL and SOFTBALL.dwg
PLOT DATE: 09-15-22 PLOTTED BY: station27

NOT USED

NOT USED

NOT USED

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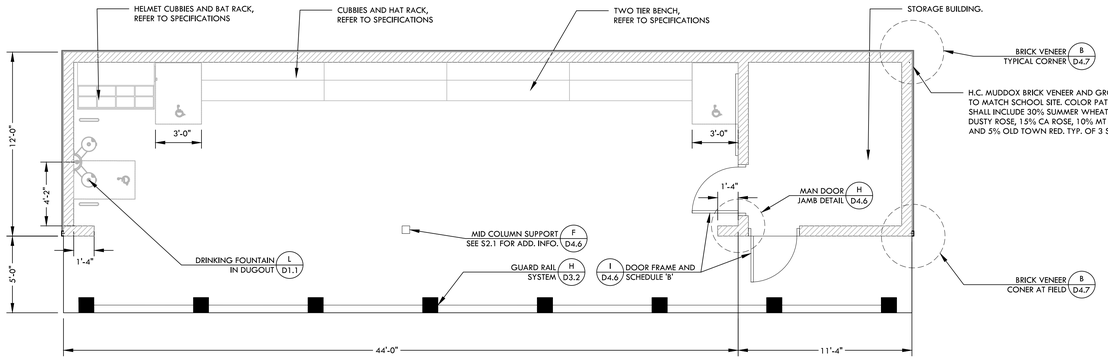
NOT USED



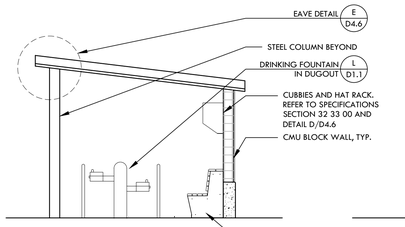
DUGOUT PLAN VIEW

NOTES:
1. APPLY BLOCK FILLER PRIOR TO PAINTING, REFER TO SPECIFICATIONS.
2. REFER TO STRUCTURAL DRAWINGS FOR MORE INFORMATION.
3. REFER TO ELECTRICAL DRAWINGS FOR OUTLET AND LIGHTING INFORMATION.

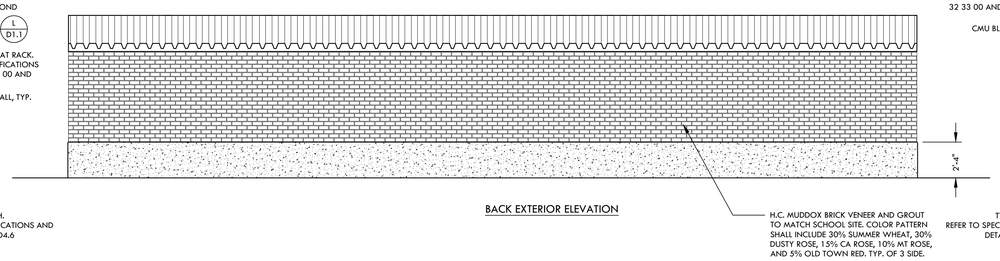
OCCUPANCY COUNT

DUGOUT:
AREA: 462 SF
OCCUPANCY: A-5
LOAD FACTOR: 1/5 S.F.
OCCUPANT LOAD: 32

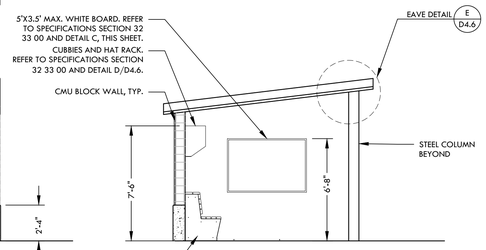
STORAGE:
AREA: 106 SF
OCCUPANCY: A-5
LOAD FACTOR: 1/300 S.F.
OCCUPANT LOAD: 1



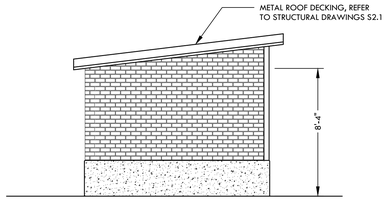
DUGOUT LEFT INTERIOR WALL



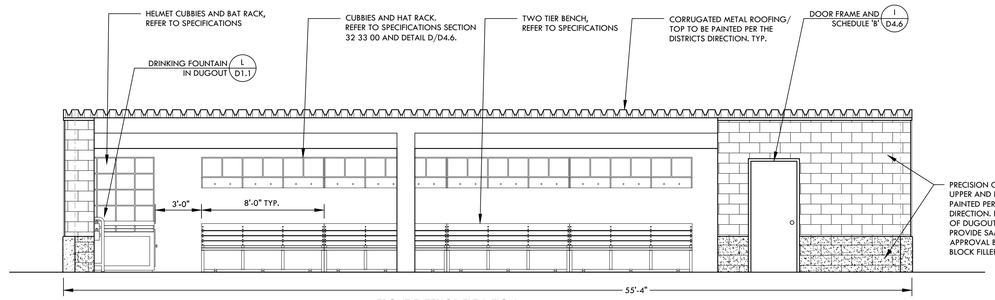
BACK EXTERIOR ELEVATION



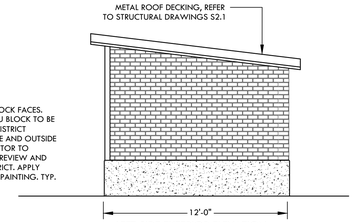
DUGOUT RIGHT INTERIOR WALL



LEFT SIDE EXTERIOR ELEVATION



FRONT EXTERIOR ELEVATION



LEFT SIDE EXTERIOR ELEVATION

A SOFTBALL DUGOUT - 3RD BASE SIDE (HOME)

NTS

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CIVIL ENGINEERING
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tel: 916.415.6554
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REGISTERED LANDSCAPE ARCHITECT
MARK S. BRAUNER
No. 4069
EXPIRATION DATE: JULY 2023
STATE OF CALIFORNIA

CONSULTANT

KEYMAP

SHEET TITLE
CONSTRUCTION DETAILS - SOFTBALL DUGOUTS

PROJECT NAME
HIRAM JOHNSON HIGH SCHOOL
GOLF PRACTICE FACILITY, VARSITY BASEBALL AND SOFTBALL FIELDS

PROJECT ADDRESS
6879 14TH AVENUE
SACRAMENTO, CA 95820

SUBMITTAL	DATE
DD 50% SUBMITTAL	04/15/22
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VDI	MB/CS
DATE ISSUED	SCALE
09/16/2022	AS NOTED
PROJ. NO.	
2203200	
SHEET NO.	
D4.9	

CONSTRUCTION DETAIL - SOFTBALL DUGOUTS

DRAWING NAME: Y:\Projects-FO\2022\2203200 - Hiram Johnson Golf Baseball Softball\CAD_DTL-BASEBALL AND SOFTBALL.dwg
PLOT DATE: 09-15-22 PLOTTED BY: station27

NOT USED

L

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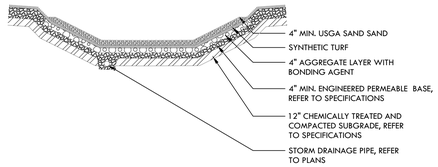
J



G SAND BUNKER NTS

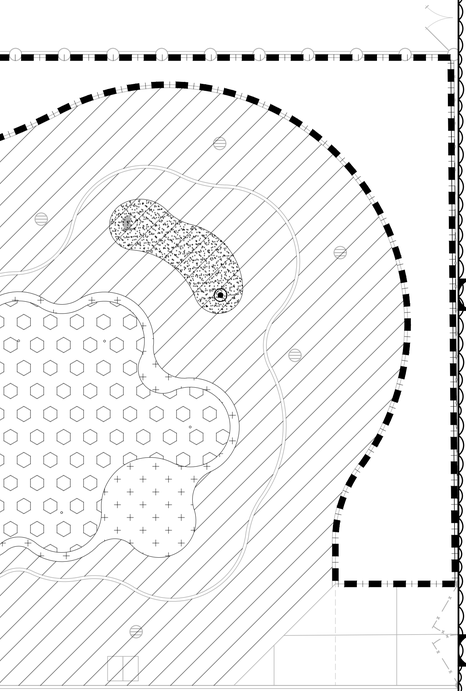
NOTES PERTAIN TO ALL DETAILS WITH SYNTHETIC TURF:

1. IDENTIFIED FINISH GRADES OF SYNTHETIC TURF SHALL BE THE TOP OF INFILL MATERIAL. INFILL MATERIAL SHALL BE ½" BELOW ADJACENT SURFACES UNLESS EDGE IS A VERTICAL CURB. REFER TO GOLF DETAIL THIS SHEET FOR INFILL DEPTH.
2. NO MANUFACTURER, CONTRACTOR OR VENDOR LOGOS ARE TO BE INSTALLED UNLESS SPECIFIED.
3. NO CUT OUTS IN TURF SHALL BE MADE UNLESS OTHERWISE NOTED AND ESPECIALLY NO CUT OUTS IN THE FIELD OF PLAY. QUICK COUPLERS AND CLEANOUTS ARE THE ONLY UTILITIES TO BE CUT THROUGH TURF. QUICK COUPLERS ARE LOCATED ON THE PERIMETER AND OUT OF THE FIELD OF PLAY AREAS.

E SYNTHETIC TURF NOTES NTS

NOT USED

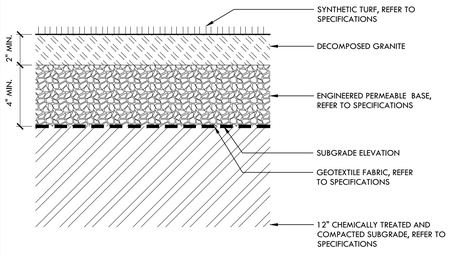
K



SYNTHETIC TURF SECTION

NOTE:
REFER TO SYNTHETIC TURF NOTES, DETAIL E, THIS SHEET.

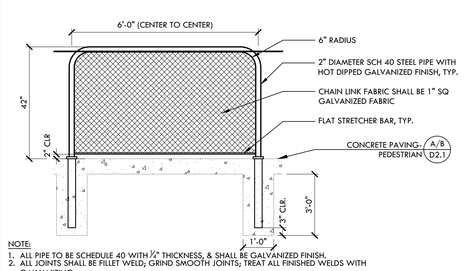
I SYNTHETIC TURF - PUTTING GREEN CUP NTS



SYNTHETIC TURF SECTION

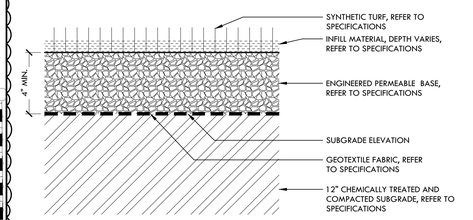
NOTE:
REFER TO SYNTHETIC TURF NOTES, DETAIL E, THIS SHEET.

F SYNTHETIC TURF - PUTTING GREEN SECTION NTS

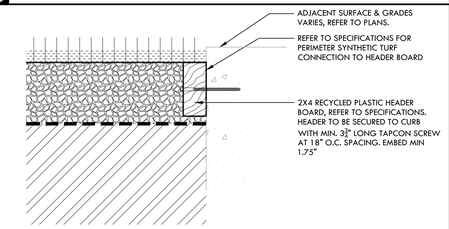


NOTE:
1. ALL PIPE TO BE SCHEDULE 40 WITH ½" THICKNESS, & SHALL BE GALVANIZED FINISH.
2. ALL JOINTS SHALL BE FILLET WELD; GRIND SMOOTH JOINTS; TREAT ALL FINISHED WELDS WITH GALVANIZING.
3. ALL RAILINGS TO BE SHOP FABRICATED FOR FIELD INSTALLATION.
4. THIS DRAWING IS FOR DESIGN INTENT ONLY. SUBMIT SHOP DRAWING TO SHOW MATERIAL, WELDS AND FASTENERS.

D GUARD RAIL NTS



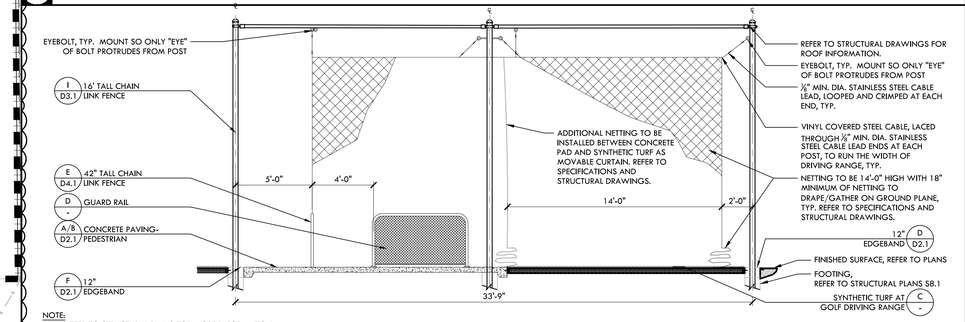
SYNTHETIC TURF SECTION



SYNTHETIC TURF CONNECTION

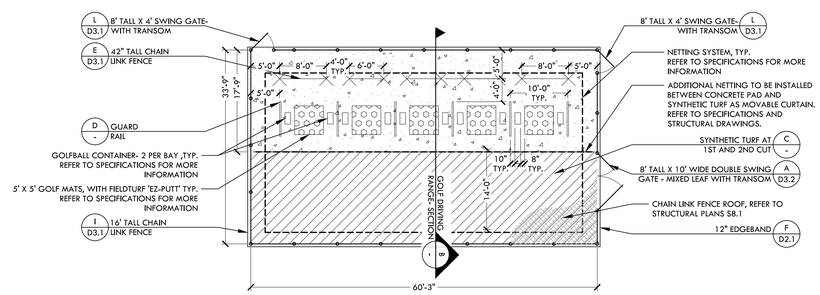
NOTE:
REFER TO SYNTHETIC TURF NOTES, DETAIL E, THIS SHEET.

C SYNTHETIC TURF - 2ND CUT AND FRINGE NTS



NOTE:
1. REFER TO STRUCTURAL PLANS FOR MORE INFORMATION.

B GOLF DRIVING RANGE - SECTION NTS



A GOLF DRIVING RANGE - PLAN NTS

LEGEND

PUTTING GREEN PRODUCT: FIELDTURF 'EZ-PUTT' PILE HEIGHT: 0.5"	2ND CUT PRODUCT: FIELDTURF 'ZL11' PILE HEIGHT: 2"
FRINGE PRODUCT: FIELDTURF 'ZL02' PILE HEIGHT: 1"	BUNKER PRODUCT: USGA SAND OVER FIELDTURF 'ZL11'

NOTE:
1. IF ADDITIVE ALTERNATE 01 IS AWARDED. CONTRACTOR SHALL INSTALL FIELD TURF 'ZL11'. REFER TO MATERIALS PLAN FOR ADDITIONAL INFORMATION.
2. REFER TO SPECIFICATION FOR ADDITIONAL INFORMATION.

01

H GOLF PUTTING GREEN NTS

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fax: 916.415.6525
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REGISTERED LANDSCAPE ARCHITECT
MARK S. BRUNKER
No. 4069
EXPIRATION DATE: JULY 2023
STATE OF CALIFORNIA

CONSULTANT

KEYMAP

SHEET TITLE
CONSTRUCTION DETAILS - GOLF

PROJECT NAME
HIRAM JOHNSON HIGH SCHOOL GOLF PRACTICE FACILITY, VARSITY BASEBALL AND SOFTBALL FIELDS

PROJECT ADDRESS
6879 14TH AVENUE
SACRAMENTO, CA 95820

SUBMITTAL	DATE
DD 50% SUBMITTAL	04/15/22
100% DSA SUBMITTAL	05/27/22
DSA BACK CHECK	08/11/22
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VDI	MB/CS
DATE ISSUED	SCALE
09/16/2022	AS NOTED
PROJ. NO.	
2203200	
SHEET NO.	
D5.1	

DRAWING NAME: Y:\Projects-FO\2022\2203200 - Hiram Johnson Golf Baseball Softball\CAD_DTL-GOLF.dwg
PLOT DATE: 09-15-22 PLOTTED BY: station27

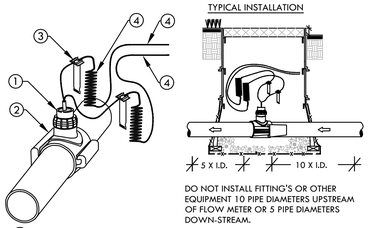
NOT USED

E

NOTE:
FOR FURTHER INSTALLATION INSTRUCTIONS REVIEW CREATIVE SENSOR TECHNOLOGY INSTALLATION LITERATURE.
PIPE SIZE TRANSITIONS MUST BE MADE 10 PIPE DIAMETERS UPSTREAM AND 5 DIAMETERS DOWNSTREAM OF SENSOR. MAKE SURE DIRECTION ARROW POINTS IN DIRECTION OF FLOW.

SIZING CHART: MODEL#	SIZE	OPERATING RANGE-GPM
FSI400	4"	10 - 480

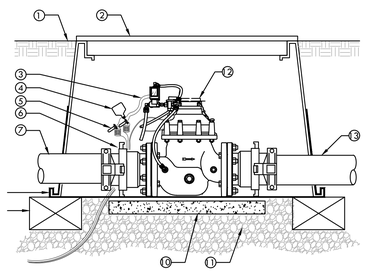
TYPICAL INSTALLATION



DO NOT INSTALL FITTING'S OR OTHER EQUIPMENT 10 PIPE DIAMETERS UPSTREAM OF FLOW METER OR 5 PIPE DIAMETERS DOWN-STREAM.

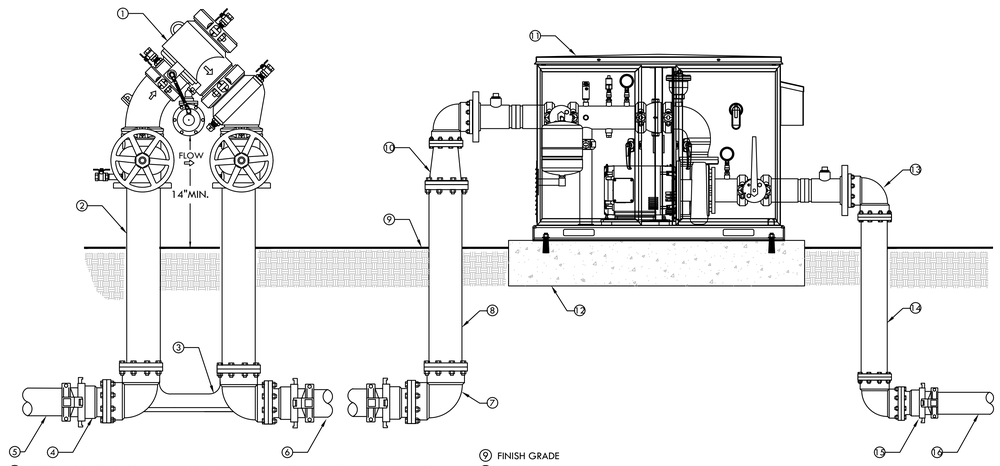
1. SADDLE TYPE FLOW SENSOR - CREATIVE SENSOR TECHNOLOGY SERIES FSI-S40-001. INSTALL WITH A CARSON 1419-12" BOX WITH REQUIRED EXTENSIONS. HEAT BRAND "FS" ON LID IN 2" HIGH BLOCK LETTERS.
2. PVC SADDLE, SEE MATERIAL SCHEDULE ON PLANS FOR SIZE. CONTRACTOR WILL SPECIFY SIZE OF SADDLE WHEN ORDERING. USE 1 3/4-INCH HOLE SAW ONLY TO DRILL ENTRY HOLE IN PIPE.
3. WATERPROOF WIRE SPLICE, 3M SCOTCHPACK OF EQUIVALENT, 2 SPLICES ARE REQUIRED.
4. DIRECT BURIAL 1 PAIR, TWISTED SHIELDED CABLE—MINIMUM CONDUCTOR SIZE 20 AWG. INSTALL WITH A MINIMUM OF 30-INCH LOOPED WIRE EXPANSION COIL.

D FLOW METER NTS



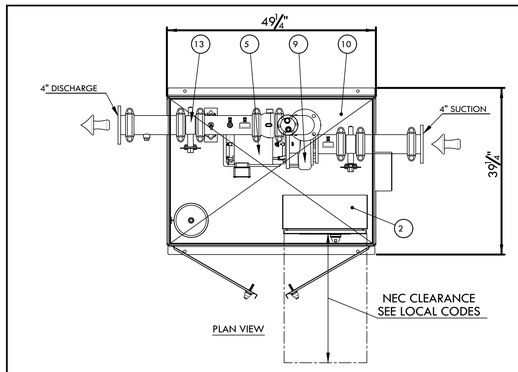
1. FINISH GRADE
2. CARSON 17"x30"-24" DEPTH BOX WITH EXTENSIONS. HEAT BRAND "MV" ON LID IN 2" HIGH BLOCK LETTERS.
3. MASTER VALVE WIRES FROM SOLENOID.
4. VALVE I.D. TAG WITH "MV" PRINTED ON IT.
5. MASTER VALVE CONTROL WIRE FROM CONTROLLER- PROVIDE 3M-DBY SEAL PACKS AT ALL SPLICES AND 36" OF EXCESS OF WIRE IN A 1" DIAMETER COIL
6. 4"x4" FLANGE x BELL ADAPTER- TRANSITION FROM 4" CL200 PVC WITH HARCO MODEL 80460FB FLANGE x BELL ADAPTER. USE JOINT RESTRAINT AT SPIGOT END. (2 TOTAL)
7. 4" CLASS 200 PVC MAIN LINE
8. 19 GAUGE 1/2" [12mm] SQUARE WIRE MESH.
9. BRICK SUPPORT. (4 TOTAL/ 1 @ EA CORNER).
10. 16" CONCRETE PAVER SUPPORT BLOCK.
11. PEA GRAVEL OR 3/4" DRAIN ROCK- 6" DEEP BELOW VALVE (NO SOIL IN VALVE BOX).
12. 4" FLANGED MASTER VALVE.
13. 4" CLASS 200 PVC MAIN LINE TO FLOW SENSOR.

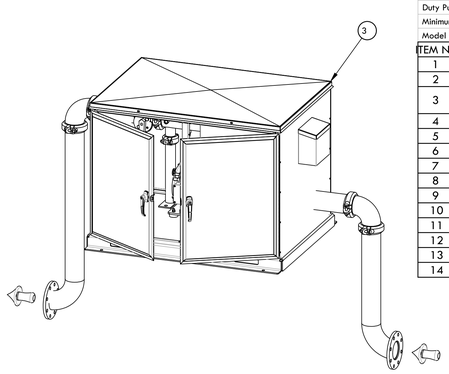
C MASTER VALVE NTS

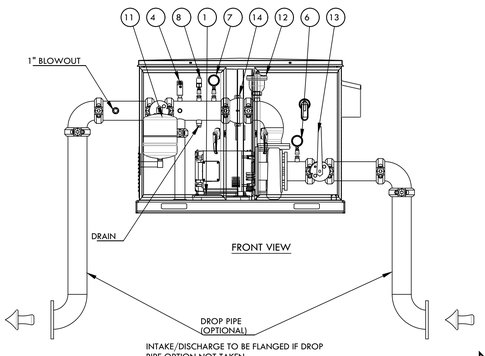


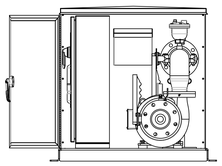
1. 6" REDUCED PRESSURE BACKFLOW ASSEMBLY (WILKENS MODEL 475-6") WITH VALVE SETTER (WILKENS MODEL FLS). INSTALL FREEZE BLANKET ON BACKFLOW. VIT MODEL PBB-60HP
2. 6" DUCTILE IRON SPOOL LENGTH AS REQUIRED (2 TOTAL)+-42" IN LENGTH. WRAP PIPE WITH PROTECTIVE TAPE WHEN PIPE IS IN CONTACT WITH SOIL.
3. WILKINS 6" MODEL FLS (FLANGE x FLANGE) VALVE SETTER
4. HARCO 6" IPS FLANGE X BELL ADAPTER MODEL 80660FB. USE JOINT RESTRAINT AS REQUIRED (3 TOTAL)
5. 6" CL200 PIPE FROM WATER SOURCE
6. 6" CL200 PIPE LENGTH AS REQUIRED.
7. 6" DUCTILE IRON (D.I.) FLANGED 90° ELBOW
8. 6" DUCTILE IRON SPOOL LENGTH AS REQUIRED. WRAP PIPE WITH PROTECTIVE TAPE WHEN PIPE IS IN CONTACT WITH SOIL.
9. FINISH GRADE
10. 6"x4" D.I. FLANGE REDUCER
11. PPS BOOSTER PUMP WITH 4" FLANGED INLET AND OUTLET. REFER TO BOOSTER PUMP DETAIL FOR MORE INFORMATION
12. 6" THICK CONCRETE PAD FOR BOOSTER PUMP TO EXTEND 6" BEYOND ENCLOSURE ON ALL SIDES. CONCRETE TO HAVE MEDIUM BROOM FINISH. SET PAD 1" ABOVE FINISH GRADE. USE #4 REBAR ON A 18" GRID WITHIN THE PAD
13. 4" DUCTILE IRON (D.I.) FLANGED 90° ELBOW (2 TOTAL)
14. 4" DUCTILE IRON SPOOL LENGTH AS REQUIRED. WRAP PIPE WITH PROTECTIVE TAPE WHEN PIPE IS IN CONTACT WITH SOIL.
15. 4"x4" FLANGE x BELL ADAPTER- TRANSITION INTO 4" CLASS 200 PVC TO SERVICE MASTER VALVE WITH HARCO MODEL 80460FB FLANGE x BELL ADAPTER. USE JOINT RESTRAINT AT SPIGOT END.
16. 4" CLASS 200 PVC PIPE TO MASTER VALVE AND FLOW SENSOR

B BACKFLOW AND BOOSTER PUMP NTS









END VIEW

NON-POTABLE
NOT FOR FABRICATION

DESIGN SPECIFICATIONS			
Design Flow Rate:	325 GPM	@ 65 PSI Boost	
Duty Pump Details:	20 HP/Pump	325 GPM	@150 TDH
Minimum Power:	240 Volt	/ 3 Phase	
Model #	CB##V1C020X00325-065XXXX243ONS-4		

ITEM NO	DESCRIPTION	Size	QTY.
1	BASE, POLY, WHITE, 1/2" THICK	10"X8"	1
2	CONTROL PANEL		1
3	ENCLOSURE, MARINE GRADE ALUMINUM	48"x33"x42"H	1
4	FLOW METER/FLOW SWITCH	1/2"	1
5	MOTOR, 3600 RPM		1
6	PRESSURE GAUGE, 100PSI	2-1/2"	1
7	PRESSURE GAUGE, 160PSI	2-1/2"	1
8	PRESSURE TRANSDUCER, 200PSI	1/4"	1
9	PUMP, CENTRIFUGAL	20HP	1
10	SKID, BENT	48x33	1
11	TANK, PRESSURE	2 Gal	1
12	VALVE, AIR RELIEF	3/4"	1
13	VALVE, BUTTERFLY, GROOVE, LEVER	4"	2
14	VALVE, CHECK, GROOVED	4"	1

REV.	DESCRIPTION	DATE	APVD
REVISIONS			

PPS
PRECISION PUMPING SYSTEMS
6515 BUSINESS WAY
BOISE, IDAHO 83716
208-323-5300
www.gopps.us

MATERIAL
Piping: STEEL A53
Skid: GALVANIZED

UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN INCHES
TOLERANCES:
FRACTIONAL: ±1/8"
ONE PLACE DECIMAL: ±.10
TWO PLACE DECIMAL: ±.05
DO NOT SCALE DRAWING

DRAWN: DATE: 1/11/2021

TITLE: BOOSTER SYSTEM PUMP STATION
PROJECT: HIRAM JOHNSON HS
LEVEL:
PART NO: CB##V1C020X00325-065XXXX243ONS-4
JOB: SIZE: B SCALE: NTS SHEET: 1 OF 1 REV: –

A IRRIGATION BOOSTER PUMP NTS

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
1843 Iron Point Rd. Suite 140
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www.VerdeDesigninc.com

STAMP

REGISTERED LANDSCAPE ARCHITECT
MARK S. BRAUNER
No. 4069
EXPIRATION DATE: JULY 2023
STATE OF CALIFORNIA

CONSULTANT

KEYMAP

SHEET TITLE
PLANTING AND IRRIGATION DETAILS

PROJECT NAME
HIRAM JOHNSON HIGH SCHOOL
GOLF PRACTICE FACILITY, VARSITY BASEBALL AND SOFTBALL FIELDS

PROJECT ADDRESS
6879 14TH AVENUE
SACRAMENTO, CA 95820

SUBMITTAL	DATE
DD 50% SUBMITTAL	04/15/22
100% DSA SUBMITTAL	05/27/22
DSA BACK CHECK	08/11/22
DSA ADDENDUM SUBMITTAL	09/16/22

NO.	REVISIONS	DATE
1	ADDENDUM	09/16/22
2		
3		
4		
5		
6		

DRAWN BY	CHECKED BY
VDI	MB/CS
DATE ISSUED	SCALE
09/16/2022	AS NOTED
PROJ. NO.	
2203200	
SHEET NO.	
D6.1	

DRAWING NAME: V:\Projects-FO\2022\2203200 – Hiram Johnson Golf Baseball Softball\CAD_DTL-PLT IRR.dwg
PLOT DATE: 09-15-22 PLOTTED BY: stotin27

NOT USED

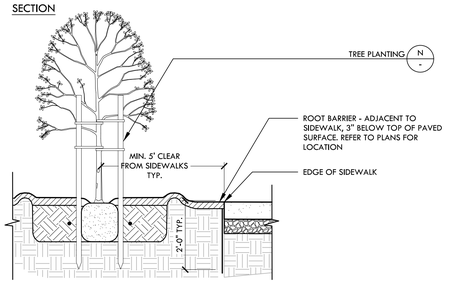
R

NOT USED

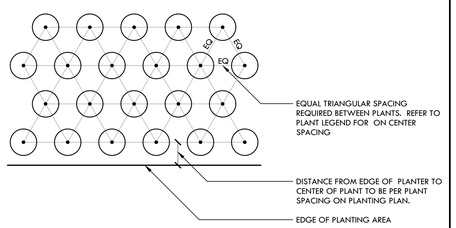
Q

P ROOT BARRIER AT SIDEWALK AND EDGEBANDS NTS

SECTION

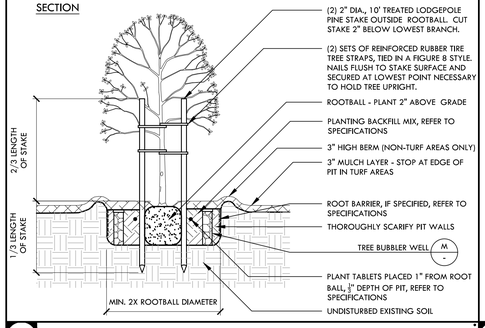


O TRIANGULAR SPACING DIAGRAM NTS

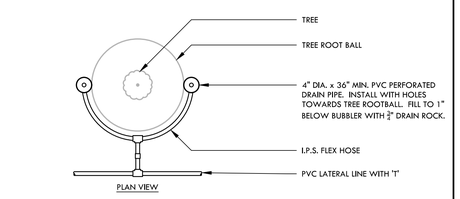


N TREE PLANTING AND BUBBLER NTS

SECTION



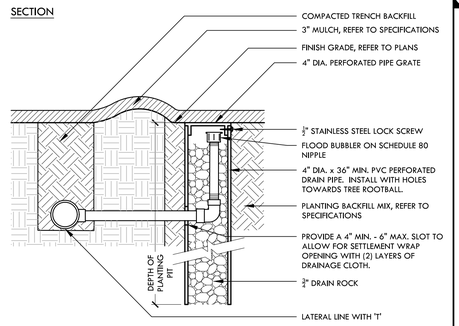
PLAN



NOTE:
1. BUBBLERS ARE REQUIRED FOR TREES IN LAWN AND SHRUB AREA. TWO BUBBLERS PER TREE ARE TO BE PLACED ON OPPOSITE SIDES OF ROOTBALL. ORIENT BUBBLERS 180° FROM EACH OTHER.

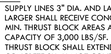
TRUNK TO BUBBLER SPACING	
SIZE	SPACING
15 GALLON TREE	15"
24" BOX TREE	20"
36" BOX TREE	25"

SECTION



M TREE BUBBLER WELL NTS

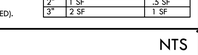
STEP 1: STRIP WIRES ½" FROM ENDS.



STEP 2: APPLY SCOTCHLOK Y SPRING CONNECTOR IN A CLOCKWISE DIRECTION.

STEP 3: INSERT SPLICE TO BOTTOM OF GEL-FILLED TUBE. CHECK TO MAKE SURE CONNECTOR HAS BEEN PUSHED PAST LOCKING FINGERS AND IS SEATED AT BOTTOM OF TUBE.

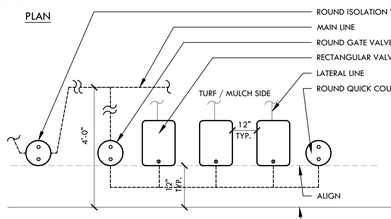
STEP 4: POSITION WIRES IN WIRE CHANNELS AND CLOSE INSULATOR TUBE COVER.



NOTE:
MAXIMUM WIRE SIZES PER CONNECTOR ARE (3) - #14'S OR (2) - #12'S.

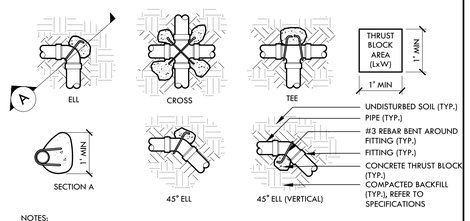
L CONTROL WIRE CONNECTION NTS

PLAN



NOTES:
1. CENTER BOXES OVER VALVES.
2. ENSURE UNIONS ARE ACCESSIBLE.
3. SET BOXES PARALLEL TO EACH OTHER AND PERPENDICULAR TO EDGE.
4. TOP OF BOXES SET IN TURF SHALL BE FLUSH WITH TURF FINISH GRADE.
5. ALL CONTROL VALVE BOXES WITHIN A MANIFOLD ARE TO BE THE SAME SIZE AS THE LARGEST BOX NECESSARY FOR THE LARGEST CONTROL VALVE.

K VALVE BOX LAYOUT WITH GLOBE VALVES NTS

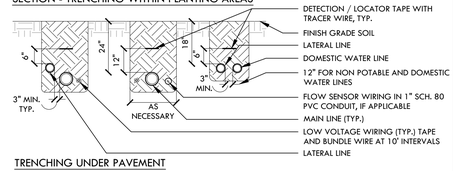


NOTES:
1. SUPPLY LINES 3" DIA. AND LARGER OR GATE VALVES 2½" OR LARGER SHALL RECEIVE CONCRETE THRUST BLOCKS.
2. MIN. THRUST BLOCK AREAS ARE BASE ON A SOIL BEARING CAPACITY OF 3,000 LBS/SF.
3. THRUST BLOCK SHALL EXTEND INTO UNDISTURBED SOIL.
4. CONCRETE SHALL NOT COVER FITTING JOINTS.
5. MAIN LINE PIPING 4" AND LARGER SHALL HAVE DUCTILE IRON FITTINGS WITH JOINT RESTRAINTS INSTALLED AT ALL FLOW DIRECTION CHANGES (CONCRETE THRUST BLOCK NOT REQUIRED).

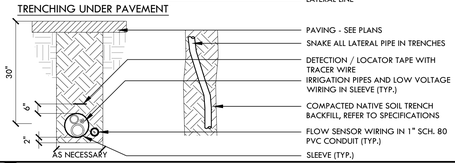
MINIMUM THRUST BLOCK AREA (LxW)		
PIPE SIZE	IRRIGATION PIPE	
	TEE, DEAD END, 90° BEND	45°,22.5°
2"	1 SF	.5 SF
3"	2 SF	1 SF

J THRUST BLOCK NTS

SECTION - TRENCHING WITHIN PLANTING AREAS

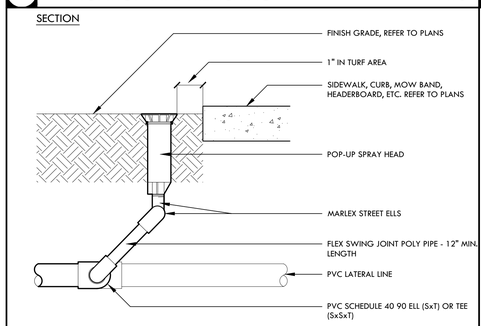


TRENCHING UNDER PAVEMENT



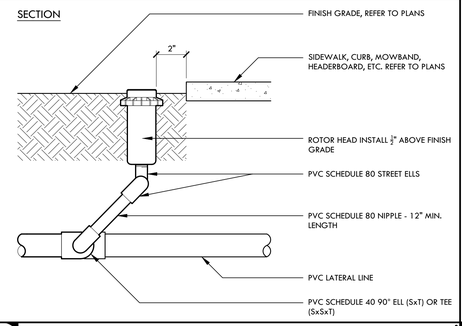
I IRRIGATION PIPE TRENCHING NTS

SECTION



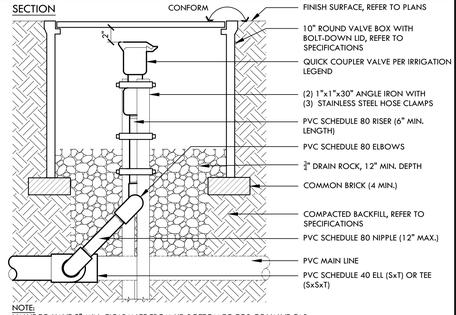
H POP UP AND SWING JOINT NTS

SECTION



G ROTOR HEAD AND SWING JOINT NTS

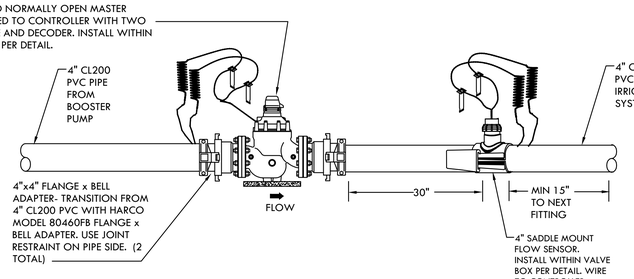
SECTION



NOTE:
VALVE TO HAVE 2" MIN. CLEARANCE FROM LID BOTTOM TO TOP OF VALVE CAP.

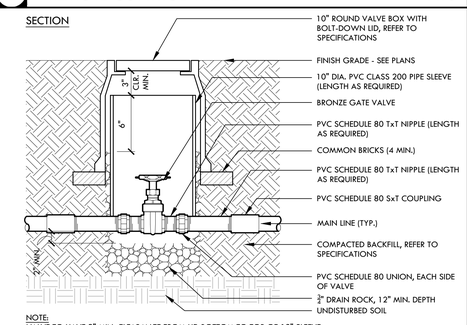
F QUICK COUPLER VALVE - IN LANDSCAPE NTS

4" FLANGED NORMALLY OPEN MASTER VALVE WIRED TO CONTROLLER WITH TWO WIRE CABLE AND DECODER. INSTALL WITHIN VALVE BOX PER DETAIL.



A MASTER VALVE & FLOW METER INSTALLATION NTS

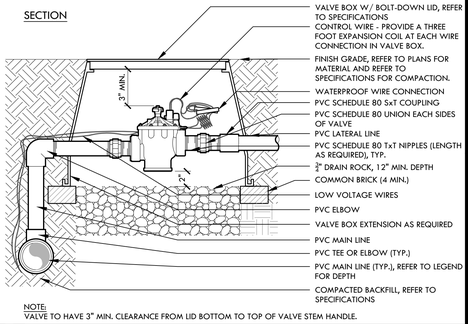
SECTION



NOTE:
VALVE TO HAVE 3" MIN. CLEARANCE FROM LID BOTTOM TO TOP OF 10" SLEEVE.

E REMOTE CONTROL VALVE NTS

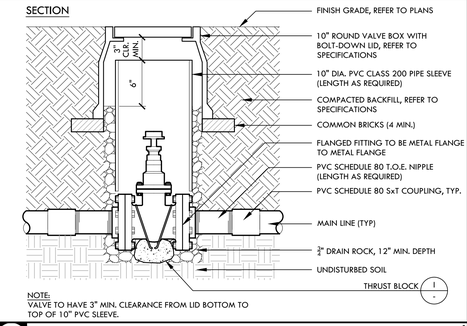
SECTION



NOTE:
VALVE TO HAVE 3" MIN. CLEARANCE FROM LID BOTTOM TO TOP OF VALVE STEM HANDLE.

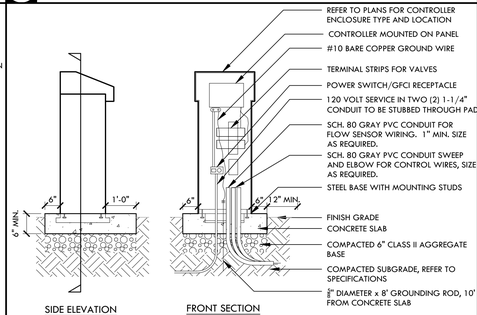
D GATE VALVE - 2" AND SMALLER NTS

SECTION



NOTE:
VALVE TO HAVE 3" MIN. CLEARANCE FROM LID BOTTOM TO TOP OF 10" PVC SLEEVE.

C GATE VALVE - 2 1/2" AND LARGER NTS



B PEDESTAL MOUNT CONTROLLER NTS

VERDE DESIGN
LANDSCAPE ARCHITECTURE
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STAMP

REGISTERED LANDSCAPE ARCHITECT
MARK S. BRAUNER
No. 4069
EXPIRATION DATE: JULY 2023
STATE OF CALIFORNIA

CONSULTANT

KEYMAP

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PLANTING AND IRRIGATION DETAILS

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HIRAM JOHNSON HIGH SCHOOL
GOLF PRACTICE FACILITY, VARSITY BASEBALL AND SOFTBALL FIELDS

PROJECT ADDRESS
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SACRAMENTO, CA 95820

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DSA ADDENDUM SUBMITTAL	09/16/22

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VDI	MB/CS
DATE ISSUED	SCALE
09/16/2022	AS NOTED
PROJ. NO.	
2203200	
SHEET NO.	
D6.2	

GENERAL

1. ALL CONSTRUCTION SHALL COMPLY WITH THE PROVISIONS OF THE 2019 CALIFORNIA BUILDING CODE (CBC), TITLE 24, PART 2, VOLUMES 1–2 (2018 INTERNATIONAL BUILDING CODE (IBC) WITH 2019 CALIFORNIA AMENDMENTS, INCLUDING SECTIONS AND 'A' CHAPTERS PERTAINING TO DSA-SS).

2. ALL DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER FOR DIRECTION PRIOR TO PROCEEDING.

3. DETAILS OF CONSTRUCTION ARE TYPICAL, UNLESS NOTED OTHERWISE, AND SHALL APPLY AT ALL LOCATIONS OF SIMILAR CONSTRUCTION. TYPICAL DETAILS ARE NOT CUT AT EVERY APPLICABLE LOCATION ON THE PLANS.

4. DO NOT SCALE DRAWINGS FOR DIMENSIONAL INFORMATION.

5. SHORING, TEMPORARY BRACING AND OTHER METHODS AND MEANS OF CONSTRUCTION IS THE RESPONSIBILITY OF THE CONTRACTOR, AND IS NOT INCLUDED IN THE SCOPE OF THE STRUCTURAL DRAWINGS.

6. THE FOLLOWING NOTES ARE FOR GENERAL MATERIAL GRADES AND PROCEDURES. SEE SPECIFICATIONS AND REMAINDER OF DRAWINGS FOR COMPLETE REQUIREMENTS. ITEMS NOTED IN PLANS, SECTIONS AND DETAILS TAKE PRECEDENCE OVER GENERAL NOTES.

7. LOADS:
   A) LIVE:
      ROOF: 20 PSF (REDUCIBLE)

   B) WIND:
      EXPOSURE C, 95 MPH BASIC WIND SPEED
      DIRECTIONAL PROCEDURE

   C) SEISMIC:
      BUILDING RISK CATEGORY II
      EQUIVALENT LATERAL FORCE PROCEDURE (ASCE 7–16 SECTION 12.8)
      LATITUDE: 38.5424, LONGITUDE: –121.4270
      SEISMIC DESIGN CATEGORY (SDC) D
      SITE CLASS D
      S_S=0.534, S_1=0.244; F_a=1.373, F_v=2.088;
      S_{MS}=0.733, S_{M1}=0.509; S_{DS}=0.489, S_{D1}=0.340
      IMPORTANCE FACTOR: I_e=1.00
      R=5 FOR SPECIAL REINFORCED (CMU) SHEAR WALLS
      R=3 FOR SIGNS & BILLBOARDS
      R=1.5 FOR STEEL POLES
      R=1.25 FOR SELF-SUPPORTING STRUCTURES
      C_S=0.098 (STRENGTH), 0.070 (ALLOWABLE STRESS) FOR CMU SHEAR WALLS
      C_S=0.163 (STRENGTH), 0.116 (ALLOWABLE STRESS) FOR SIGNS & BILLBOARDS
      C_S=0.326 (STRENGTH), 0.233 (ALLOWABLE STRESS) FOR STEEL POLES
      C_S=0.391 (STRENGTH), 0.279 (ALLOWABLE STRESS) FOR ALL OTHER STRUCTURES
      C_V=0.089 (STRENGTH), 0.070 (ALLOWABLE STRESS).

   E) LOAD COMBINATIONS FOR DESIGN:
      CONCRETE: PER CBC SECTION 1605A.2 FOR STRENGTH DESIGN.
      FOUNDATIONS: PER CBC SECTION 1605A.3.2 FOR ALLOWABLE STRESS DESIGN.
      ALL OTHERS: PER CBC SECTION 1605A.3.1 FOR ALLOWABLE STRESS DESIGN.

STRUCTURAL ABBREVIATIONS

A.B.	ANCHOR BOLT	I.D.	INSIDE DIAMETER
ADJ	ADJACENT	IN	INCH
APPROX	APPROXIMATE	INT	INTERIOR
ARCH	ARCHITECTURAL		
		LAM	LAMINATE
BLDG	BUILDING	LBS	POUNDS
BLK	BLOCK		
BLKG	BLOCKING	KSI	KIPS PER SQ. IN.
BM	BEAM		
B.N.	BOUNDARY NAILING	MAX	MAXIMUM
BOT	BOTTOM	M.B.	MACHINE BOLT
BP	BASEPLATE	MECH	MECHANICAL
BRG	BEARING	MFR	MANUFACTURER
B.S.	BOTH SIDES	MIN	MINIMUM
		MISC	MISCELLANEOUS
C TO C	CENTER TO CENTER		
C.B.	CARRIAGE BOLT	<N>	NEW
CJ	CONTROL JOINT OR CONSTRUCTION JOINT	N.S.	NEAR SIDE
		N.I.C.	NOT IN CONTRACT
C.I.	CAST IRON	NO.	NUMBER
CL	CENTERLINE	NTS	NOT TO SCALE
CLG	CEILING		
CMU	CONCRETE MASONRY UNIT	O.C.	ON CENTER
COL	COLUMN	O.D.	OUTSIDE DIAMETER
CONC	CONCRETE	OPP	OPPOSITE
CONT	CONTINUOUS		
C.P.	COMPLETE PENETRATION	PERP	PERPENDICULAR
CTRD	CENTERED	PL	STEEL PLATE
CTSK	COUNTERSINK	P.P.	PARTIAL PENETRATION
		PLYWD	PLYWOOD
<D>	DEMO	PSF	POUNDS PER SQ. FT.
DBL	DOUBLE	PSI	POUNDS PER SQ. IN.
DIA OR ø	DIAMETER		
DIAG	DIAGONAL	RAD	RADIUS
DO	DITTO	REINF	REINFORCING
DWG	DRAWING	REQD	REQUIRED
		REV	REVISION
EA	EACH	R.O.	ROUGH OPENING
E.F.	EACH FACE	RWD	REDWOOD
ELEC	ELECTRICAL		
ELEV	ELEVATION	S.A.D	SEE ARCH'L DRAWINGS
E.N.	EDGE NAILING	S.M.D.	SEE MECH'L DRAWINGS
EQ	EQUAL	S.L.D.	SEE LANDSCAPE DRAWINGS
E.W.	EACH WAY	S.F.	SQUARE FEET
EXIST OR <E>	EXISTING	SIM	SIMILAR
EXTER	EXTERIOR	SPEC	SPECIFICATION
		SQ	SQUARE
<F>	FUTURE	STD	STANDARD
F.D.	FLOOR DRAIN	STGRD	STAGGERED
FHWS	FLAT HEAD WOOD SCREW	STIFF	STIFFENER
FIN	FINISH	SYM	SYMMETRICAL
F.O.B.	FACE OF BLOCK		
F.O.C.	FACE OF CONCRETE	T&G	TONGUE & GROOVE
F.O.F.	FACE OF FINISH	THRD	THREADED
F.O.S.	FACE OF STUD	T.O.C.	TOP OF CONCRETE
F.P.	FULL PENETRATION	T.O.F.	TOP OF FRAMING
F.S.	FAR SIDE	T.O.S.	TOP OF STEEL
FT	FOOT OR FEET	TS	TUBE STEEL
FTG	FOOTING	TYP	TYPICAL
GA	GAGE	U.N.O.	UNLESS NOTED OTHERWISE
GALV	GALVANIZED		
G.I.	GALVANIZED IRON	VERT	VERTICAL
GLB	GLUE-LAMINATED BEAM		
GYP.BD.	GYPSUM BOARD	W/	WITH
		W/O	WITHOUT
HDR	HEADER	WT	WEIGHT OR STEEL WT SECTION
HORIZ	HORIZONTAL		
HR	HOUR	WWF	WELDED WIRE FABRIC
H.S.	HIGH STRENGTH		
H.S.B.	HIGH STRENGTH BOLT		
HSS	HOLLOW STEEL SECTION		

GEOTECHNICAL & FOUNDATIONS

1. GEOTECHNICAL CRITERIA USED FOR FOUNDATION DESIGN:
   A) GEOTECHNICAL REPORT BY WALLACE KUHL & ASSOCIATES INC., STOCKTON, CA. REPORT NO. 11843.01P, DATED 04–17–18 & 02–02–22.
      GEOTECHNICAL REPORT SHALL BE CONSIDERED PART OF CONSTRUCTION DOCUMENTS. ALL RECOMMENDATIONS DESCRIBED THEREIN SHALL BE IMPLEMENTED IN PROJECT'S CONSTRUCTION, INCLUDING GRADING, STRIPPING OF EXISTING MATERIAL, LOCATION, TYPE AND INSTALLATION OF FILL MATERIAL, AND COMPACTION.

   B) CONTINUOUS & SPREAD FOOTINGS:
      MINIMUM WIDTH: 12" (CONTINOUS FOOTINGS) & 18" (SPREAD FOOTINGS)
      MINIMUM EMBEDMENT BELOW LOWEST ADJACENT FINISHED GRADE: 18"

   C) ALLOWABLE SOIL PRESSURES USED FOR FOUNDATION DESIGN:
      DEAD PLUS LIVE LOAD: 2000 PSF
      TOTAL LOAD W/ SEISMIC OR WIND: 2667 PSF (2000 + 1/3 INCREASE FOR SHORT TERM LOADS WHERE ALLOWED BY CODE.
      ALLOWABLE FRICTION COEFFICIENT: 0.250
      ALLOWABLE PASSIVE PRESSURE: 250 PCF

      PIER/PILE ALLOWABLE LATERAL PRESSURE: 300 PCF PLUS 1/3 INCREASE FOR SHORT TERM LOADS WHERE ALLOWED BY CODE.
      IGNORE 1 FT. AT TOP. EFFECTIVE PIER WIDTH: 1 DIAMETER.
      MINIMUM PIER SPACING: 3 DIAMETERS

      CANTILEVERED RETAINING WALL:
        ACTIVE PRESSURE: 60 PCF
      RESTRAINED RETAINING WALL:
        AT-REST PRESSURE: 100 PCF

   D) ENGINEERED FILL AND COMPACTION:
      PER GEOTECHNICAL REPORT RECOMMENDATIONS.

STRUCTURAL CONCRETE

1. ALL CONCRETE WORK SHALL CONFORM TO CHAPTER 19A OF THE 2019 CALIFORNIA BUILDING CODE (CBC) AND 2014 ACI STANDARD 318 AND ASTM C94, SPECIFICATION FOR READY-MIX CONCRETE. CEMENT SHALL BE PORTLAND CEMENT TYPE II AND SHALL COMPLY WITH ASTM C150. CALCIUM CHLORIDE SHALL NOT BE USED. COARSE AND FINE AGGREGATE SHALL COMPLY WITH ASTM C33. CONCRETE MIX DESIGNS SHALL BE SUBMITTED TO AND APPROVED BY TESTING AGENCY PRIOR TO ORDERING CONCRETE.

2. ALL STRUCTURAL CONCRETE MIXES SHALL HAVE MIN. FIVE (5) SACKS CEMENT PER CU. YARD AND MAX. WATER-TO-CEMENT RATIO OF 0.60. CONCRETE MIX PROPERTIES SHALL BE AS FOLLOWS:
   A) SLABS-ON-GRADE & CONCRETE WALLS:
      28-DAY COMP. STRENGTH: 3,000 PSI
      LARGE AGGREGATE SIZE: 1/2" – 1"
      MAX. SLUMP: 4"
      DENSITY: 145 – 150 PCF (NORMAL WEIGHT, HARD ROCK AGGREGATE)
      EXPOSURE CLASS: C0, S1 (ACI 318 TABLE 19.3.1.1)

   B) FOOTINGS & GRADE BEAMS:
      28-DAY COMP. STRENGTH: 3,000 PSI
      LARGE AGGREGATE SIZE: 1" – 1-1/2"
      MAX. SLUMP: 4"
      DENSITY: 145 – 150 PCF (NORMAL WEIGHT, HARD ROCK AGGREGATE)
      EXPOSURE CLASS: C1, S0 (ACI 318 TABLE 19.3.1.1)

   C) C.I.D.H. PIER FOOTINGS:
      28-DAY COMP. STRENGTH: 3,000 PSI
      LARGE AGGREGATE SIZE: 1/2" – 1"
      MAX. SLUMP: 4"
      DENSITY: 145 – 150 PCF (NORMAL WEIGHT, HARD ROCK AGGREGATE)
      EXPOSURE CLASS: C1, S0 (ACI 318 TABLE 19.3.1.1)

   C) NON-STRUCTURAL CONCRETE WALKS ON GRADE:
      28-DAY COMP. STRENGTH: 2,500 PSI
      LARGE AGGREGATE SIZE: 3/8" – 3/4"
      MAX. SLUMP: 5"
      DENSITY: 145 – 150 PCF (NORMAL WEIGHT, HARD ROCK AGGREGATE)

3. STEEL REINFORCING BARS SHALL CONFORM TO ASTM A615, GR. 60 U.N.O. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185.

4. GROUT SHALL BE NON-SHRINK GROUT U.N.O. CONFORMING TO ASTM C1107. GROUT SHALL HAVE A 7-DAY COMPRESSIVE STRENGTH 5,000 PSI MIN. GROUT SHALL BE MASTER BUILDERS "MASTERFLOW 928", SIKA SIKAGROUT 212, OR APPROVED EQUAL. FOLLOW MANUFACTURER'S SURFACE PREPARATION RECOMMENDATIONS.

5. BONDING AGENT SHALL BE MASTER BUILDERS "MASTEREMACO ADH 326", SIKA ARMATEC 110 EPOCEM, OR APPROVED EQUAL, AND SHALL BE APPLIED PER MANUFACTURER'S RECOMMENDATIONS.

6. CURING COMPOUND SHALL BE APPROVED BY ENGINEER, AND APPLIED PER MANUFACTURER'S RECOMMENDATIONS.

7. CONSTRUCTION JOINTS SHALL BE ROUGHENED TO FULL 1/4" AMPLITUDE (ICRI CSP 9) WITH BUSH HAMMER OR OTHER APPROVED METHOD. SURFACES SHALL BE CLEANED OF DUST AND DEBRIS IMMEDIATELY PRIOR TO PLACEMENT OF NEWER CONCRETE.

8. REINFORCING STEEL SHALL BE CONTINUOUS WHERE POSSIBLE. SPLICE WITH CONTACT LAP-SPLICES. STAGGER ALL SPLICES. SPLICE LENGTHS SHALL BE 57 BAR-DIAMETERS MINIMUM. WELDED WIRE FABRIC SHALL BE LAPPED TWO (2) FULL SQUARES, BUT NOT LESS THAN 12".

9. EXTEND HORIZONTAL BARS IN FOUNDATIONS AND WALLS INTO INTERSECTING FOUNDATIONS AND WALLS WITH BEND AND 30 BAR DIAMETER EXTENSION, BUT NOT LESS THAN 24" EXTENSION.

10. WELDING OF REINFORCING SHALL NOT BE ALLOWED.

11. SEE STRUCTURAL STEEL NOTES FOR ANCHOR BOLTS CAST IN CONCRETE.

12. ANCHOR BOLT PROJECTION SHALL BE ADEQUATE FOR FULL ENGAGEMENT OF PLATES, WASHERS, NUTS, ETC. AND SHALL BE VERIFIED BY CONTRACTOR PRIOR TO PLACEMENT OF CONCRETE OR GROUT. ANCHOR BOLTS SHALL BE FIRMLY SECURED TO FORMS TO PREVENT THEIR MOVEMENT DURING CONCRETE PLACEMENT. WET-SETTING OF ANCHOR BOLTS IS NOT ALLOWED.

13. MAINTAIN THE FOLLOWING MINIMUM CONCRETE COVER FOR REBAR:
    WHERE CONC. IS PLACED AGAINST EARTH = 3"
    WHERE CONCRETE IS FORMED AND EXPOSED TO EARTH OR WEATHER = 2"
    WHERE CONCRETE IS NOT EXPOSED TO EARTH OR WEATHER = 1-1/2"
    SLABS ON GRADE = 3/4"

14. WHERE SIDES OF FOUNDATIONS (FOOTINGS, GRADE BEAMS OR WALLS) ARE CAST AGAINST EARTH WITHOUT FORMS, FOUNDATION SHALL BE WIDENED 1" AT EACH SUCH SURFACE.

15. EXCAVATION FOR FOOTINGS BELOW DEPTHS SHOWN ON DRAWINGS SHALL BE BACKFILLED WITH CONCRETE.

16. NOTIFY ENGINEER, PROJECT INSPECTOR, AND DSA-SS AT LEAST 48 HOURS BEFORE ANY CONCRETE IS TO BE PLACED OR FORMS CLOSED TO ALLOW FOR INSPECTION OF EXCAVATIONS AND REINFORCING PLACEMENT. SEE ALSO SPECIAL INSPECTION REQUIREMENTS.

17. CONTRACTOR SHALL, PRIOR TO EXCAVATION, VERIFY FOOTING CONDITIONS AND FINISH GRADE/PAVING ELEVATIONS AT PERIMETER OF BUILDING. VERIFY THAT FOOTINGS HAVE SPECIFIED MINIMUM DEPTH BELOW ADJACENT GRADE AND THAT FOOTINGS DO NOT "DAYLIGHT" OR OTHERWISE INTERFERE WITH INTENDED EXTERIOR CONDITIONS. NOTIFY ENGINEER IF SUCH INTERFERENCE EXISTS PRIOR TO EXCAVATION.

18. IF LOADING OF CONCRETE ELEMENTS PRIOR TO 28-DAY AGE IS ANTICIPATED, CONTRACTOR SHALL NOTIFY ENGINEER PRIOR TO SUBMITTAL OF CONCRETE MIX DESIGNS IN ORDER TO ALLOW SPECIFYING PROVISIONS FOR SUCH. PROVISIONS MAY INCLUDE COMPRESSION TEST CYLINDERS BE FIELD-CURED IN CONDITIONS MATCHING SUBJECT CONCRETE ELEMENTS, PLUS USE OF CEMENT TYPES AND/OR ADMIXTURES IN MIX DESIGNS TO PROVIDE THE REQUIRED COMPRESSIVE STRENGTHS AT ANTICIPATED AGES LESS THAN 28 DAYS. LOADING OF CONCRETE ELEMENTS BEFORE CURING FOR 28 DAYS WILL NOT BE APPROVED WITHOUT THESE PROVISIONS BEING SPECIFIED, AND MET BY CONTRACTOR.

CONCRETE MASONRY

1. ALL CONCRETE UNIT MASONRY WORK SHALL CONFORM TO CHAPTER 21A OF THE 2019 CALIFORNIA BUILDING CODE (CBC) AND 2013 EDITIONS OF TMS 402/ACI 530/ASCE 5 AND TMS 602/ACI 530.1/ASCE 6.

2. ALL BLOCK UNITS SHALL BE NORMAL OR MEDIUM WEIGHT UNITS, WITH MINIMUM COMPRESSIVE STRENGTH OF 2,800 PSI, CONFORMING TO ASTM C90. MORTAR SHALL BE TYPE "S", CONFORMING TO ASTM C270. GROUT SHALL HAVE MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI AT 28 DAYS, CONFORMING TO ASTM C476.

3. DESIGN OF MASONRY IS BASED ON COMPRESSIVE STRENGTH OF MASONRY f'm OF 2,000 PSI AND FULL ALLOWABLE STRESSES PER CBC. SPECIAL INSPECTION IS REQUIRED. SEE INSPECTION NOTES FOR ADDITIONAL REQUIREMENTS.

4. f'm COMPLIANCE SHALL BE VERIFIED BY THE "UNIT STRENGTH METHOD" PER TMS 602/ACI 530.1/ASCE 6 ARTICLE 1.4B.2 AND CBC SECTION 2105A.3 (DSA-SS). TEST UNITS PRIOR TO CONSTRUCTION. UNITS AND GROUT SHALL BE TESTED DURING CONSTRUCTION FOR EVERY 5,000 SQ. FEET OF WALL AREA. VERIFY MORTAR TYPE.

5. REINFORCING SHALL BE AS SPECIFIED FOR CONCRETE.

6. LAP ALL BARS 72 BAR-DIAMETERS, BUT NOT LESS THAN 24" AT ALL SPLICES. PROVIDE BEND PLUS 24" EXTENSION ON HORIZONTAL BARS AT ALL WALL INTERSECTIONS.

7. SEE STEEL NOTES FOR BOLTS EMBEDDED IN MASONRY. ALL ANCHOR BOLTS THROUGH FACE SHELLS OF MASONRY UNITS SHALL BE GROUTED IN PLACE WITH AT LEAST 1" OF GROUT BETWEEN BOLT AND SHELL, ALL AROUND BOLT.

8. REINFORCING BARS AND TIES SHALL BE HELD AT LEAST 1 BAR DIAMETER CLEAR FROM MASONRY UNIT FACE SHELLS, EXCEPT BARS MAY BEAR ON CROSS WEBS OF BOND BEAM UNITS. PARALLEL BARS SHALL BE HELD AT LEAST 1" CLEAR BETWEEN, EXCEPT AT CONTACT LAP SPLICES.

9. UNITS SHALL BE LAYED IN RUNNING BOND. USE OF OPEN-END UNITS THROUGHOUT IS ENCOURAGED. USE OF SPEED-BLOCK (NON-GROUTED OPEN-END UNITS) IS NOT ALLOWED. IF OPEN-END UNITS ARE NOT USED, ALL LINTEL HEAD JOINTS SHALL BE FILLED SOLID WITH MORTAR.

10. ALL STARTER (BOTTOM) COURSE UNITS SHALL BE INVERTED BOND-BEAM UNITS, TYPICAL THROUGHOUT. TOPS OF FOOTINGS RECEIVING MASONRY UNITS AND GROUT SHALL BE ROUGHENED TO FULL 1/8" AMPLITUDE (1/4" PEAK-TO-VALLEY), FOR FULL WIDTH OF UNITS.

11. GROUT ALL CELLS SOLID UNLESS NOTED OTHERWISE ON DRAWINGS. NO ITEMS OTHER THAN REBAR, STEEL CONDUIT AND ANCHOR BOLTS SHALL BE EMBEDDED IN CMU. ALL HOLES CREATED FOR EXTRACTION OF TESTING/SAMPLE CORES SHALL BE FILLED SOLID WITH APPROVED NON-SHRINK GROUT AND FINISHED TO MATCH TEXTURE OF ADJACENT FACE SHELL.

12. GROUTING SHALL BE DONE BY THE LOW-LIFT METHOD ONLY (UNITS LAID UP 4'-0" HIGH MAXIMUM AT A TIME, AND 4'-0" HIGH MAXIMUM LIFTS). ANY REQUESTS TO USE HIGH-LIFT GROUTING METHOD SHALL BE MADE AT LEAST FOUR (4) WEEKS PRIOR TO LAYING UP OF UNITS, AND WILL BE CONSIDERED A CHANGE TO THE DRAWINGS, REQUIRING DSA-APPROVAL. ADDITIONAL DSA REQUIREMENTS FOR HIGH-LIFT METHOD WILL BE ISSUED AS A CHANGE ORDER, AND SUBMITTED TO DSA FOR APPROVAL.

13. IF LOADING OF CONCRETE MASONRY ELEMENTS PRIOR TO 28-DAY AGE IS ANTICIPATED, CONTRACTOR SHALL NOTIFY ENGINEER PRIOR TO SUBMITTAL OF GROUT AND/OR MORTAR MIX DESIGNS IN ORDER TO ALLOW SPECIFYING PROVISIONS FOR SUCH. PROVISIONS MAY INCLUDE COMPRESSION TEST CYLINDERS TO BE FIELD-CURED IN CONDITIONS MATCHING SUBJECT MASONRY ELEMENTS, PLUS USE OF CEMENT TYPES AND/OR ADMIXTURES IN MIX DESIGNS TO PROVIDE THE REQUIRED COMPRESSIVE STRENGTHS AT ANTICIPATED AGES LESS THAN 28 DAYS. LOADING OF MASONRY ELEMENTS BEFORE CURING FOR 28 DAYS WILL NOT BE APPROVED WITHOUT THESE PROVISIONS BEING SPECIFIED, AND MET BY CONTRACTOR.

STRUCTURAL STEEL

1. ALL STEEL AND MISC. IRON SHALL BE FABRICATED AND ERECTED IN CONFORMANCE WITH A.I.S.C. SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS.

2. STEEL MATERIAL SHALL BE AS FOLLOWS:
   W SHAPES: ASTM A992
   PLATES, CHANNELS & ANGLES: ASTM A36 UNLESS NOTED OTHERWISE
   RECTANGULAR TUBES (TS OR HSS): ASTM A500 GRADE B, Fy=46 KSI
   PIPES (STD., X-STRG. & XX-STRG.): ASTM A53 GRADE B, Fy=35 KSI
   ROUND TUBES (HSS): ASTM A500 GRADE B, Fy=42 KSI
   STEEL POSTS SUPPORTING NETTING & METAL CHAIN-LINK FABRIC UP TO 10 FT. HIGH SHALL BE GALVANIZED PIPES COMPLYING WITH ASTM F1083, REGULAR GRADE 30 KSI YIELD STRENGTH, SCHEDULE 40. HOT-DIP ZINC GALVANIZING SHALL COMPLY WITH ASTM A123, WITH MIN. OF 1.8 OZ./SQ. FT. OUTSIDE AND INSIDE.
   STEEL POSTS SUPPORTING NETTING & METAL CHAIN-LINK FABRIC OVER 10 FT. HIGH SHALL BE GALVANIZED PIPES PER ASTM A53 (GR. B, Fy=35 KSI) OR ROUND TUBES PER ASTM A500 (GR. B., Fy=42 KSI) HOT-DIP ZINC GALVANIZED PER ASTM A123, WITH MIN. OF 1.8 OZ./SQ. FT. OUTSIDE AND INSIDE.
   HEADED STUDS: ASTM A108 TYPE B, Fy=51 KSI
   MACHINE BOLTS (M.B.): ASTM A307 GRADE A, A563 FOR NUTS, F844 FOR WASHERS
   ANCHOR BOLTS/RODS (A.B.): ASTM F1554 GRADE 36
   THREADED RODS: ASTM A307 OR A36 (MAY BE THREADED FOR ENTIRE LENGTH)
   WELDING ELECTRODES: E70XX

3. UNLESS NOTED OTHERWISE, ANCHOR BOLTS, MACHINE BOLTS AND THREADED ANCHOR RODS THROUGH STEEL AND EMBEDDED IN CONCRETE SHALL CONFORM TO ASTM F1554. ANCHOR BOLTS/RODS SHALL HAVE A STANDARD BOLT HEAD OR TIGHTENED DOUBLE NUTS. THREADED RODS SHALL HAVE TIGHTENED DOUBLE NUTS AT END. ANCHOR BOLT PROJECTION SHALL BE ADEQUATE FOR FULL ENGAGEMENT OF PLATES, WASHERS, NUTS, ETC. AND SHALL BE VERIFIED BY CONTRACTOR PRIOR TO PLACEMENT OF CONCRETE OR GROUT.

4. ALL WELDING ON STRUCTURAL STEEL SHALL CONFORM WITH AWS D1.1 CODE AND SHALL BE PRE-QUALIFIED WELDS CONFORMING TO AWS D1.1. UNLESS SPECIFICALLY INDICATED AS FIELD WELDING, ALL WELDS MAY BE PERFORMED IN SHOP OR FIELD.

5. HEADED STUDS SHALL BE WELDED WITH AUTOMATICALLY TIMED STUD WELDING EQUIPMENT. STUDS SHALL NOT BE FILLET- OR BUTT-WELDED UNLESS SPECIFICALLY SHOWN AS SUCH ON DETAILS.

6. ALL COMPLETE AND FULL PENETRATION GROOVE WELDS (DESIGNATED BY "C.P." OR "F.P.") SHALL USE BACK-UP PLATES UNLESS NOTED OTHERWISE. ALL PARTIAL-PENETRATION WELDS (DESIGNATED BY "P.P.") SHALL HAVE LARGEST EFFECTIVE THROAT ALLOWED BY AWS. GROOVE WELDS NOT NOTED WITH "C.P.", "F.P." OR "P.P" SHALL BE COMPLETE PENETRATION WELDS.

7. WELDING PROCEDURE SPECIFICATIONS SHALL BE SUBMITTED TO THE ARCHITECT AND THE TEST AND INSPECTION AGENCY'S WELDING INSPECTOR FOR REVIEW AND APPROVAL PRIOR TO START OF FABRICATION.

8. MINIMUM SPACING OF ALL BOLTS, 7/8"ø AND SMALLER IN STEEL SHALL BE 3" o.c. AND THE MINIMUM EDGE DISTANCE FROM CENTERLINE OF HOLE TO EDGE OF PLATE OR MEMBER SHALL BE 1-1/2", UNLESS NOTED OTHERWISE ON DRAWINGS. WHERE BOLTS ARE INSTALLED THROUGH FLANGES OF "W" OR SIMILAR SHAPES, THE BOLT GAGE SHALL BE AS RECOMMENDED BY AISC.

9. HOLES FOR BOLTS IN STEEL SHALL BE 1/16" MAXIMUM LARGER IN DIAMETER THAN BOLTS. HOLES FOR ANCHOR BOLTS SHALL NOT BE MORE THAN 5/16" LARGER FOR A.B.'S UP TO 1"ø, AND NOT MORE THAN 1/2" LARGER FOR A.B.'S OVER 1"ø. ALL HOLES SHALL BE DRILLED OR PUNCHED. BURNING OF HOLES IS NOT ALLOWED, WHETHER IN FIELD OR SHOP.

10. ALL STRUCTURAL STEEL IN EXTERIOR SPACES OR EXPOSED TO VIEW IN INTERIOR SPACES SHALL BE PAINTED WITH TWO (2) COATS OF ALKYD RED OXIDE PRIMER, COMPLYING WITH SSPC-PAINT 25 OR U.S. FEDERAL SPEC TT-P-645, WITH MIN. DRY THICKNESS OF 2 MILS. SEE ARCHITECTURAL SPECS FOR FINISH PAINTING. STRUCTURAL STEEL IN ENCLOSED SPACES AND NOT EXPOSED TO WEATHER NEED NOT BE PAINTED OR PRIMED UNLESS NOTED OTHERWISE. STEEL TO BE EMBEDDED IN CONCRETE SHALL NOT BE PAINTED.

11. ALL NON-PAINTED STEEL FASTENERS EXPOSED TO WEATHER OR IN UNENCLOSED SPACES SHALL BE HOT-DIPPED GALVANIZED, UNLESS NOTED OTHERWISE. GALVANIZED BOLTS AND NUTS SHALL BE PROVIDED BY SAME MANUFACTURER.

12. ALL STRUCTURAL STEEL SPECIFIED ON DRAWINGS TO BE GALVANIZED SHALL BE HOT-DIPPED ZINC GALVANIZED WITH MIN. 1.8 OZ./SQ. FT. ON ALL SURFACES. GALVANIZING SHALL BE TOUCHED UP AT FIELD-WELDED CONNECTIONS, FIELD-DRILLED HOLES, OR FIELD-CUT EDGES WITH A HIGH-ZINC DUST-CONTENT PAINT.

POST-INSTALLED ANCHORS & DOWELS

*****NOTE: POST-INSTALLED ANCHORS PROVIDED IN THE EVENT THAT REBAR OR CAST-IN-PLACE ANCHOR BOLTS ARE MISSED OR INCORRECTLY PLACED, CONTRACTOR SHALL NOTIFY PROJECT INSPECTOR & SEOR ENGINEER FOR DIRECTIONS PRIOR TO PROCEEDING WITH INSTALLATION.**

A. GENERAL – APPLICABLE TO ALL ANCHORS:
1. ANCHORS SHALL BE INSTALLED ONLY WHERE SPECIFIED ON DRAWINGS, PER MANUFACTURER'S INSTRUCTIONS, USING MANUFACTURER'S EQUIPMENT, WHERE APPLICABLE. INSTALLER SHALL HAVE ON SITE A COPY OF MANUFACTURER'S INSTALLATION INSTRUCTIONS AND ICC-ES OR IAPMO-UES REPORT.

2. ANCHORS SHALL BE INSTALLED ONLY INTO CURED CONCRETE OR MASONRY GROUT THAT HAS ATTAINED THE MIN. DESIGN COMPRESSIVE STRENGTH AT MIN. 28 DAY AGE, EXCEPT AS NOTED BELOW FOR ADHESIVE ANCHORS. IF INSTALLATION OF ANCHORS INTO CONCRETE OR MASONRY ELEMENTS PRIOR TO 28-DAY AGE IS ANTICIPATED, CONTRACTOR SHALL NOTIFY ENGINEER PRIOR TO INSTALLATION IN ORDER TO ALLOW SPECIFYING PROVISIONS FOR SUCH. PROVISIONS MAY INCLUDE COMPRESSION TEST CYLINDERS BE FIELD-CURED IN CONDITIONS MATCHING SUBJECT CONCRETE OR MASONRY ELEMENTS, PLUS USE OF CEMENT TYPES AND/OR ADMIXTURES IN MIX DESIGNS TO PROVIDE THE REQUIRED COMPRESSIVE STRENGTHS AT ANTICIPATED AGES LESS THAN 28 DAYS. INSTALLATION OF ANCHORS INTO CONCRETE OR MASONRY GROUT BEFORE CURING FOR 28 DAYS WILL NOT BE APPROVED WITHOUT THESE PROVISIONS BEING SPECIFIED, AND MET BY CONTRACTOR.

3. WHERE POST-INSTALLED ANCHORS ARE USED TO MITIGATE OMITTED OR MISPLACED CAST-IN-PLACE ANCHORS, ADDED SPECIAL INSPECTION AND TESTING COSTS ASSOCIATED WITH THE POST-INSTALLED ANCHORS WILL BE PAID FOR BY THE DISTRICT, HOWEVER, SUCH COSTS WILL BE BACK-CHARGED TO THE CONTRACTOR.

4. PRIOR TO DRILLING HOLES FOR ANY POST-INSTALLED ANCHORS INTO NEW OR EXISTING CONCRETE OR MASONRY, ALL REINFORCING BARS IN AREA OF NEW ANCHORAGE HOLES SHALL BE LOCATED WITH PACHOMETER OR OTHER SUITABLE DEVICE AND CLEARLY MARKED IN THE FIELD. NEW ANCHORS SHALL BE INSTALLED NOT LESS THAN 1" CLEAR FROM REINFORCING. WHERE REINFORCING BARS CANNOT BE LOCATED, CARE SHALL BE TAKEN WHILE DRILLING HOLES SO THAT REINFORCING BARS ARE NOT CUT OR DAMAGED AND HOLES SHALL BE REPAIRED & RELOCATED AS REQUIRED. USE OF DRILLS WITH GROUND FAULT INTERRUPTERS (GFI) IS RECOMMENDED.

5. PROVIDE TESTING AND INSPECTIONS OF ANCHOR INSTALLATIONS PER TESTING AND SPECIAL INSPECTION NOTES, THIS SHEET.

6. ANCHORS OTHER THAN THOSE SPECIFIED BELOW MAY BE USED ONLY WHEN CURRENT ICC-ES OR IAPMO-UES REPORT FOR SUCH IS SUBMITTED FOR REVIEW AND APPROVAL IN WRITING. ANCHORS SHALL NOT BE INSTALLED UNTIL ANCHORS ARE APPROVED BY STRUCTURAL ENGINEER AND DSA, AND TEST LOADS ARE DETERMINED AND ISSUED.

7. ANCHORS IN CONTACT WITH PRESERVATIVE-TREATED AND FIRE-RETARDANT-TREATED WOOD SHALL BE OF HOT-DIPPED ZINC-COATED GALVANIZED STEEL OR STAINLESS STEEL. ANCHORS EXPOSED TO WEATHER OR REQUIRED TO BE CORROSION RESISTANT SHALL BE OF HOT-DIPPED ZINC-COATED GALVANIZED STEEL OR STAINLESS STEEL.

B. EXPANSION ANCHORS:
1. EXPANSION ANCHORS SHALL BE WEDGE TYPE ANCHORS ONLY AND SHALL HAVE ICC-ES OR IAPMO-UES APPROVAL, INCLUDING APPROVAL FOR RESISTANCE TO SEISMIC AND WIND LOADS, PASSING ICC-ES CRITERIA AC193 (CONCRETE) & AC01 (MASONRY). USE ONE OF THE FOLLOWING ICC-ES OR IAPMO-UES APPROVED SYSTEMS:
   CONCRETE:
   a) HILTI KWIK BOLT TZ2 (ESR-4266), (TYP. ANCHOR SPECIFIED U.N.O.)
   b) SIMPSON STRONG-BOLT 2 ANCHORS (ESR-3037),
   c) DEWALT/POWERS POWER-STUD+ SD2, SD4 & SD6 ANCHORS (ESR-2502).
   MASONRY:
   a) HILTI KWIK BOLT 3 (ESR-1385), (TYP. ANCHOR SPECIFIED U.N.O.)
   b) SIMPSON WEDGE-ALL ANCHORS (ESR-1396),
   c) DEWALT/POWERS POWER-STUD+ SD1 (ESR-2966)
   d) ITW RED HEAD TRUBOLT+ WEDGE ANCHORS (ESR-4058).
   NOTE: OTHER EXPANSION ANCHORS MAY BE USED ONLY WHEN ICC-ES OR IAPMO-UES REPORT FOR SUCH IS SUBMITTED TO AND APPROVED BY ENGINEER AND DSA AND TEST LOADS ARE DETERMINED AND ISSUED.

2. EXPANSION ANCHORS SHALL HAVE EMBEDMENT NOT LESS THAN EIGHT (8) ANCHOR DIAMETERS, OR AS OTHERWISE SPECIFIED IN DETAILS. TORQUE ANCHORS DURING INSTALLATION TO THE RECOMMENDED INSTALLATION TORQUE VALUES SPECIFIED IN MANUFACTURER'S ICC-ES OR IAPMO-UES REPORT.

C. CHEMICAL ADHESIVE ANCHORS AND DOWELS:
1. ALL THREADED RODS AND REBAR DOWELS INSTALLED IN HARDENED CONCRETE OR MASONRY GROUT WITH "ADHESIVE" SHALL BE A TWO-PART NOZZLE-MIXED ICC-ES OR IAPMO-UES APPROVED CHEMICAL ADHESIVE SYSTEM, PASSING ICC-ES CRITERIA AC308 (CONCRETE) & AC58 (MASONRY). USE ONE OF THE FOLLOWING ICC-ES OR IAPMO-UES APPROVED SYSTEMS:
   CONCRETE:
   a) HILTI "HIT-RE 500-V3" ADHESIVE ANCHOR SYSTEM (ESR-3814), (SPECIFIED U.N.O.)
   b) SIMPSON "SET-XP" ADHESIVE ANCHOR SYSTEM (ESR-2508),
   c) DEWALT/POWERS "PURE110+" ADHESIVE ANCHOR SYSTEM (ESR-3298),
   d) ITW RED HEAD "G5+" ADHESIVE ANCHOR SYSTEM (ESR-4138).
   MASONRY:
   a) HILTI "HIT" SYSTEM WITH HY-200 ADHESIVE (ESR-3963), (SPECIFIED U.N.O.)
   b) SIMPSON "SET-XP" ADHESIVE ANCHOR SYSTEM (IAPMO ER-0265),
   c) DEWALT/POWERS "AC100+ GOLD" ADHESIVE ANCHOR SYSTEM (ESR-3200).
   NOTE: OTHER CHEMICAL ADHESIVE ANCHOR SYSTEMS MAY BE USED ONLY WHEN ICC-ES OR IAPMO-UES REPORT FOR SUCH IS SUBMITTED TO AND APPROVED BY ENGINEER AND DSA AND TEST LOADS ARE DETERMINED AND ISSUED.

2. ANCHORS SHALL BE INSTALLED ONLY INTO CURED CONCRETE OR MASONRY GROUT OF MIN. 21 DAY AGE. IF INSTALLATION OF ANCHORS INTO CONCRETE OR MASONRY ELEMENTS PRIOR TO 21-DAY AGE IS ANTICIPATED, CONTRACTOR SHALL NOTIFY ENGINEER PRIOR TO INSTALLATION FOR DIRECTION.

3. INSTALLATION OF CHEMICAL ADHESIVE ANCHORS IN HORIZONTAL OR OVERHEAD APPLICATIONS SHALL BE INSTALLED BY AN ACI/CSRI CERTIFIED ADHESIVE ANCHOR INSTALLER.

4. HOLES SHALL BE DRILLED 1/8" TO 1/4" LARGER IN DIAMETER THAN ROD OR BAR OUTER DIAMETER, AS SPECIFIED IN ICC-ES OR IAPMO-UES REPORT.

5. BARS/RODS SHALL HAVE EMBEDMENT IN ADHESIVE NOT LESS THAN TEN (10) NOMINAL BAR/ROD DIAMETERS IN CONCRETE AND NINE (9) NOMINAL BAR/ROD DIAMETERS IN MASONRY, OR AS OTHERWISE SPECIFIED IN DETAILS.

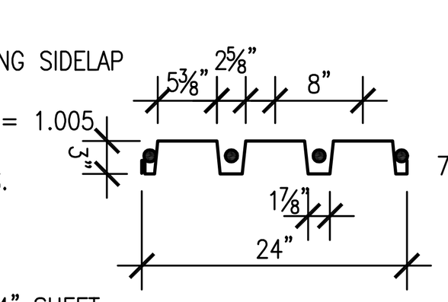
6. INSTALLATION TORQUE FOR ALL ANCHORS SHALL BE REDUCED ACCORDING TO MANUFACTURER'S RECOMMENDATION DUE TO THE VICINITY OF ANCHOR TO EDGE OF CONCRETE.

7. THE BOND STRESSES AS SPECIFIED IN ICC-ES OR IAPMO-UES REPORT SHALL BE BASED ON LONG TERM ELEVATED TEMPERATURES OF NOT LESS THAN 110 DEGREES F.

METAL ROOF DECK

1. METAL DECK SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS AND ICC-ES OR IAPMO REPORT.

2. METAL DECK SHALL BE AS MANUFACTURED BY VERCO MANUFACTURING CO. (ER-0217 AND ER-2018), WITH THE FOLLOWING PROPERTIES:
   DUGOUTS:
   PROFILE: 3" DEEP, N-24, WITH STANDARD INTERLOCKING SIDELAP
   THICKNESS: 16 GA.
   PER-FOOT PROPERTIES: I = 1.647 +S = 0.950, –S = 1.005
   STEEL GRADE: GRADE 50, Fy = 50 KSI, Fu = 65 KSI
   FINISH: G90 GALVANIZED WITH PRIMER ON BOTH SIDES.



3. ATTACHMENT TO SUPPORTING FRAMING AT DUGOUTS:
   USE 15/16"ø PUDDLE WELDS (1/2"ø EFF. DIA.) THUS:
   TO PERPENDICULAR SUPPORTS: FOUR (4) PW PER 24" SHEET
   TO PARALLEL SUPPORTS: PW @ 12" o.c. & 3" – 6" FROM ENDS
   ALONG SIDELAPS: BUTTON PUNCH @ 12" o.c. & 3" – 6" FROM ENDS.
   (DO NOT USE VSC/PUNCHLOK SYSTEM)

4. PROVIDE STEEL UNDERSIDE CLOSURE BELOW DECKING AT ALL EXTERIOR WALLS AT DUGOUTS, AND WHERE SPECIFIED BY ARCHITECTURAL DRAWINGS, PER DETAIL 31/S2.1.

5. TOUCH-UP: ALL WELDS SHALL BE TOUCHED UP WITH SPRAY-ON ZINC GALVANIZING AS RECOMMENDED BY MANUFACTURER PRIOR TO RE-APPLICATION OF PRIMER AND PAINT.

6. LAYOUT: DECK SHALL BE LAID OUT SUCH THAT A DOWN-FLUTE IS CENTERED OVER EVERY CMU WALL PARALLEL TO DECK FLUTES. USE ONE-PIECE SHEETS OVER ENTIRE TRANSVERSE DIMENSION OF BUILDINGS. NO SHEET LAPS/SPLICES ARE ALLOWED WITHIN 6" OF CMU FLUTES PARALLEL TO FLUTES.

TESTING AND SPECIAL INSPECTIONS

1. GENERAL
   A) ALL TESTS AND SPECIAL INSPECTIONS SHALL CONFORM TO APPLICABLE REQUIREMENTS OF 2019 CALIFORNIA BUILDING CODE (CBC) SECTION 1701A AND APPROVED FORM DSA-103, "STATEMENT OF STRUCTURAL TESTS AND SPECIAL INSPECTIONS."
   B) ALL TESTS OF MATERIALS AND TESTING LABORATORY SHALL BE IN ACCORDANCE WITH 2019 CALIFORNIA ADMINISTRATIVE CODE (CAC) SECTION 4–335.
   C) THE OWNER SHALL EMPLOY AND PAY THE INSPECTION/TESTING LABORATORY. COSTS OF RE-TESTING MAY BE BACK-CHARGED TO THE CONTRACTOR.
   D) INSPECTOR SHALL BE APPROVED BY DSA. INSPECTIONS SHALL BE IN ACCORDANCE WITH CAC SECTION 4–333(b), AND THE DUTY OF THE INSPECTOR SHALL BE IN ACCORDANCE WITH CAC SECTION 4–342.
   E) COPIES OF ALL TEST/INSPECTION REPORTS SHALL BE SUBMITTED TO ARCHITECT, STRUCTURAL ENGINEER, PROJECT INSPECTOR. AND DSA-SSS.

2. FOUNDATIONS (DRILLED PIERS, FOOTINGS, GRADE BEAMS), WALLS AND SLABS-ON-GRADE:
   A) NOTIFY ENGINEER AND PROJECT INSPECTOR 48 HOURS BEFORE CONCRETE IS TO BE PLACED OR FORMS CLOSED TO ALLOW FOR INSPECTION OF EXCAVATIONS AND REINFORCING PLACEMENT.
   B) SPECIAL INSPECTION IS REQUIRED PER CBC SECTION 1705A.3.
   C) THE TESTING AGENCY SHALL PERFORM THE FOLLOWING:
      * REVIEW ALL CONCRETE MIX DESIGNS. ALL DESIGNS SHALL BE SUBMITTED TO AND APPROVED BY TESTING AGENCY PRIOR TO ORDERING CONCRETE.
      * FOR EACH CONCRETE MIX PLACED, AGENCY SHALL CAST (4) TEST CYLINDERS IN ACCORDANCE WITH ASTM C31 FOR EACH 50 CUBIC YARDS OR 2000 SQUARE FEET, OR FRACTION THEREOF, OF CONCRETE PLACED EACH DAY, AND TRANSPORT CYLINDERS TO LAB. TEST CYLINDERS IN ACCORDANCE WITH ASTM C39. TEST (1) CYLINDER AT 7 DAYS AND (2) CYLINDERS AT 28 DAYS. HOLD LAST TEST CYLINDER FOR 60 DAYS.
      * INSPECT FINAL PLACEMENT OF ALL REINFORCING AND STEEL EMBEDS AS INDICATED ON DETAILS PRIOR TO CONCRETE PLACEMENT.
      * CONTINUOUS INSPECTION OF CONCRETE PLACEMENT FOR ALL DRILLED PIERS AND GRADE BEAM FOOTINGS.
   D) SEE ITEM 7 BELOW FOR INSPECTIONS BY GEOTECHNICAL ENGINEER.

3. CONCRETE UNIT MASONRY:
   A) SPECIAL INSPECTION IS REQUIRED PER CBC SECTION 1705A.4.
   B) VERIFY f'M COMPLIANCE PER UNIT STRENGTH METHOD PER CBC SECTION 2105A.3.
   C) VERIFY REINFORCING PLACEMENT.
   D) INSPECT GROUT SPACE AND PLACEMENT.
   E) MASONRY CORE TEST PER CBC SECTION 2105A.4. AFTER MASONRY HAS CURED, NOT LESS THAN TWO CORES SHALL BE TAKEN, INSPECTED FOR WORKMANSHIP AND TESTED IN SHEAR.
   F) INSPECT CORING OPERATION AND CORES.

4. POST-INSTALLED ANCHORS IN CONCRETE AND CONCRETE MASONRY:
   A) GENERAL – APPLICABLE TO ALL ANCHORS AND DOWELS:
      1) ALL EXPANSION ANCHORS, SCREW ANCHORS AND ADHESIVE ANCHOR SYSTEMS USED SHALL HAVE ICC-ES OR IAPMO-UES APPROVAL.
      2) PERIODIC SPECIAL INSPECTION IS REQUIRED FOR ALL ANCHORS.
   B) EXPANSION ANCHORS IN CONCRETE & MASONRY:
      1) PULL-TEST OR TORQUE-TEST 100% OF ANCHORS EXCEPT AS NOTED; PULL-TEST OR TORQUE-TEST 10% OF SOLE PLATE ANCHOR BOLTS AND 50% OR ALTERNATE ANCHORS FOR EQUIPMENT ANCHORAGE AND IN NON-STRUCTURAL APPLICATIONS.
      2) PULL-TEST LOAD VALUES SPECIFIED BELOW ARE BASED ON (1-1/4) TIMES THE MAXIMUM DESIGN TENSION STRENGTHS AS PROVIDED IN THE ICC-ES REPORT FOR HILTI KWIK-BOLT TZ2 (ESR-4266) IN CONCRETE, IN ACCORDANCE WITH CBC SECTION 1910A.5.4, AND (2) TIMES THE MAXIMUM ALLOWABLE TENSION LOADS AS PROVIDED IN THE ICC-ES REPORT FOR HILTI KWIK-BOLT 3 (ESR-1385) IN MASONRY.
      3) PULL-TEST ANCHORS IN TENSION WITH CALIBRATED HYDRAULIC RAM TO VALUES SPECIFIED BELOW.

ANCHOR DIAMETER	NOMINAL EMBEDMENT (CONC./MASONRY)	CONC. TEST LOAD (LBS.)	MASONRY TEST LOAD (LBS.)	INSTALLATION TORQUE (FT.-LBS.)
3/8"	2½" / 2½"	1905	1250	30
1/2"	3¾" / 3½"*(3"**)	4050	1450*(1035**)	50
5/8"	4½" / 4"*(3½"**)	5525	1990*(1365**)	60
3/4"	5½" / 4⅜"	7150	2630	125

      * – AT ANCHOR INSTALLED IN THE FACE OF GROUT-FILLED MASONRY
      ** – AT ANCHOR INSTALLED IN THE TOP OF GROUT-FILLED MASONRY
      4) ALTERNATIVELY, TORQUE-TEST ANCHORS WITH CALIBRATED TORQUE WRENCH TO VALUES SPECIFIED IN MANUFACTURER'S ICC-ES OR IAPMO-UES REPORT FOR RECOMMENDED INSTALLATION TORQUE WITHIN 1/4 TURN OF THE NUT FOR 3/8"ø SLEEVE ANCHOR ONLY AND WITHIN 1/2 TURN OF THE NUT FOR ALL OTHER ANCHORS.

   C) RODS & DOWELS WITH CHEMICAL ADHESIVE IN CONCRETE & MASONRY:
      1) PULL-TESTING OF RODS INSTALLED IN CHEMICAL ADHESIVE IS REQUIRED FOR ALL ANCHORS. TESTING OF REBAR USED ONLY AS SHEAR DOWELS ACROSS COLD JOINTS IN SLABS-ON-GRADE, WHERE SLAB IS NOT PART OF THE LATERAL FORCE-RESISTING SYSTEM, IS NOT REQUIRED.
      2) PULL-TEST LOAD VALUES SPECIFIED BELOW ARE BASED ON (1-1/4) TIMES THE MAXIMUM DESIGN TENSION STRENGTHS AS PROVIDED IN THE ICC-ES REPORT FOR HILTI HIT-RE 500-V3 (ESR-3814) IN CONCRETE, IN ACCORDANCE WITH CBC SECTION 1910A.5.4, AND (2) TIMES THE MAXIMUM ALLOWABLE TENSION LOADS AS PROVIDED IN THE ICC-ES REPORT FOR HILTI HIT HY-200 (ESR-3963) IN MASONRY.
      3) PULL-TEST ANCHORS IN TENSION WITH CALIBRATED HYDRAULIC RAM TO VALUES SPECIFIED BELOW, BASED ON MIN. EMBEDMENT OF 10ø IN CONCRETE & 9ø IN MASONRY, U.N.O.

ANCHOR/BAR DIAMETER	MIN. EMBEDMENT (CONC./MASONRY)	CONC. TEST LOAD (LBS.)	MASONRY TEST LOAD (LBS.)
3/8", #3	3¾" / 3⅜"*	2910	1510*
1/2", #4	5" / 4½"*(4"**)	5165	2290*(1760**)
5/8", #5	6¼" / 5⅝"*(4"**)	8245	2220*(1960**)
3/4", #6	7½" / 6¾"*	10150	2720

      * – AT ANCHOR INSTALLED IN THE FACE OF GROUT-FILLED MASONRY
      ** – AT ANCHOR INSTALLED IN THE TOP OF GROUT-FILLED MASONRY

5. WELDING OF STRUCTURAL STEEL. TESTING LAB SHALL:
   A) VERIFY CERTIFICATION OF WELDERS AT START OF WORK.
   B) REVIEW WELDING PROCEDURE SPECIFICATIONS SUBMITTED BY FABRICATOR.
   C) PROVIDE CONTINUOUS INSPECTION OF ALL COMPLETE AND PARTIAL PENETRATION GROOVE WELDS, AND ALL FILLET WELDS 3/8" AND LARGER.
   D) PROVIDE PERIODIC INSPECTION OF ALL FILLET WELDS 5/16" AND SMALLER.
   E) TEST WELDS AS DEEMED NECESSARY BY THE INSPECTION AGENCY TO ENSURE ADEQUACY OF WELDS AND CONFORMANCE TO THE DRAWINGS AND SPECIFICATIONS.

6. ADDITIONAL INSPECTIONS BY STRUCTURAL ENGINEER:
   ARCHITECT AND ENGINEER SHALL BE NOTIFIED AT LEAST 48 HOURS PRIOR TO THE FOLLOWING TO ALLOW FOR INSPECTION OF THE RESPECTIVE WORK PRIOR TO ENCLOSING IN FINISHES:
   A) AT SUBSTANTIAL COMPLETION OF ANY AREA OF FOUNDATION WORK AND RETAINING WALLS PRIOR TO CLOSING OF FORMS OR PLACEMENT OF CONCRETE.
   B) AT SUBSTANTIAL COMPLETION OF ANY AREA OF STRUCTURAL STEEL FRAMING.

7. INSPECTIONS BY GEOTECHNICAL ENGINEER:
   A) PROVIDE PERIODIC INSPECTION OF SITE PREPARATION & GRADING – STRIPPING OR DISCING OPERATIONS. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL. PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.
   B) PROVIDE CONTINUOUS INSPECTION OF ENGINEERED FILL OPERATIONS. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.
   C) PROVIDE CONTINUOUS INSPECTION OF EXCAVATIONS FOR DRILLED PIER FOOTINGS. VERIFY PLACEMENT LOCATIONS, PLUMBNESS, DIAMETERS AND LENGTHS. RECORD CONCRETE VOLUMES.

SHOP DRAWING SUBMITTALS

1. PROVIDE SHOP DRAWINGS FOR THE FOLLOWING MATERIALS/PRODUCTS:
   A) CONCRETE MIX DESIGNS (SUBMIT TO TESTING/INSPECTION AGENCY)
   B) CONCRETE & MASONRY REINFORCING
   C) CONCRETE SLAB AND WALL CONTROL/CONSTRUCTION JOINT LAYOUT
   D) CONCRETE MASONRY UNITS
   E) CONCRETE MASONRY GROUT MIX DESIGN (SUBMIT TO TESTING/INSPECTION AGENCY)
   F) STRUCTURAL STEEL AND MISC. METALS

2. SEE SPECIFICATIONS FOR OTHER SUBMITTALS AND SUBMITTAL PROCEDURE.

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1505 Meridian Avenue, Ste. B San Jose, California 95125
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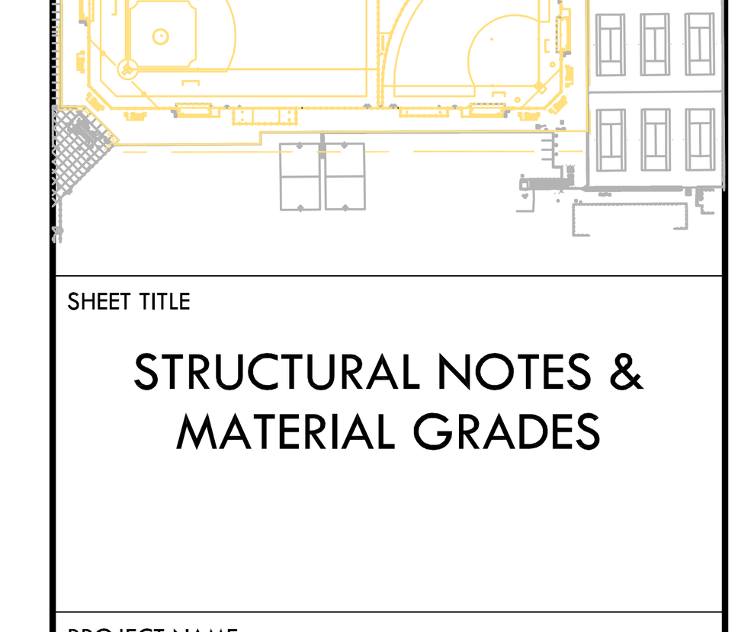
REGISTERED PROFESSIONAL ENGINEER
TIM D. HYDE
No. S3260
EXP. 3/31/23
STRUCTURAL
STATE OF CALIFORNIA

KEYMAP



SHEET TITLE
STRUCTURAL NOTES & MATERIAL GRADES

PROJECT NAME
HIRAM JOHNSON HIGH SCHOOL GOLF PRACTICE FACILITY, VARSITY BASEBALL AND SOFTBALL FIELDS

PROJECT ADDRESS
6879 14TH AVENUE
SACRAMENTO, CA 95820

SUBMITTAL	DATE
DD 50% SUBMITTAL	04/15/22
100% DSA SUBMITTAL	05/27/22
DSA BACK CHECK	08/11/22
DSA ADDENDUM SUBMITTAL	09/16/22

NO.	REVISIONS	DATE
1	ADDENDUM	09/16/22

DRAWN BY: JJQ	CHECKED BY: TDH
DATE ISSUED: 09/16/2022	SCALE: NONE

PROJ. NO. 2203200

SHEET NO. S1.1

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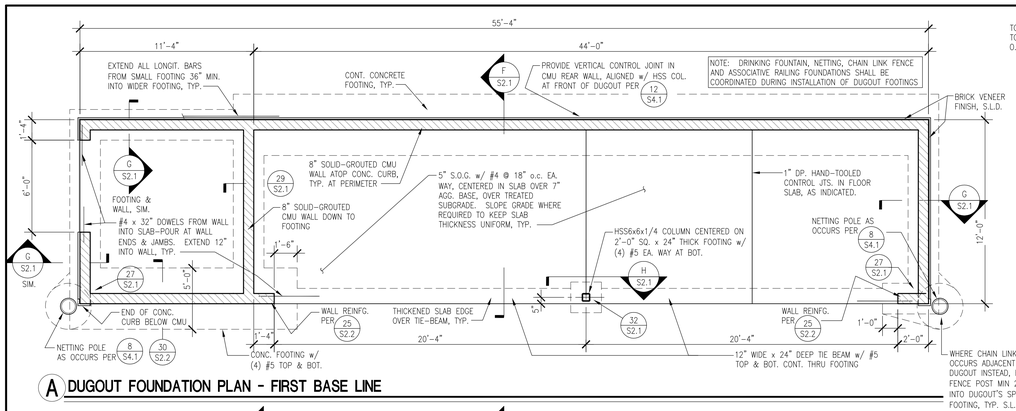
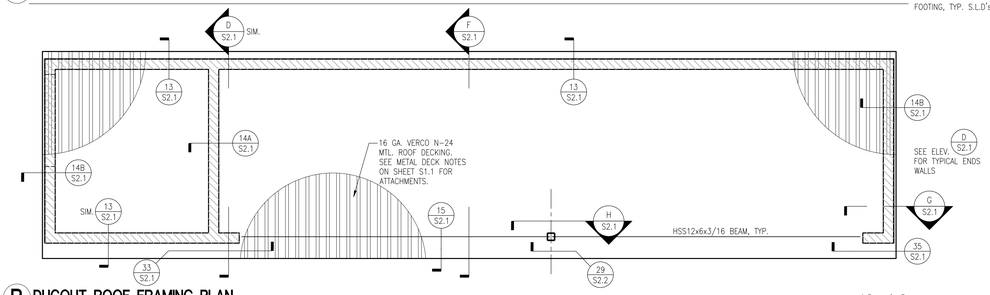
PLOT DATE: 09-15-22 PLOTTED BY: jose

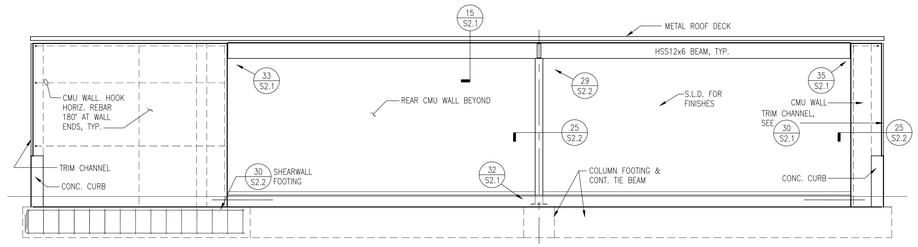


A DUGOUT FOUNDATION PLAN - FIRST BASE LINE



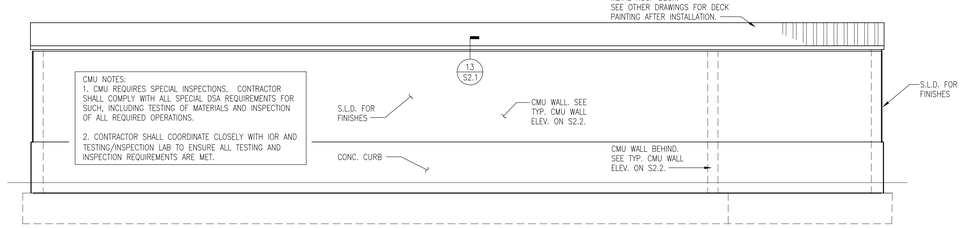
B DUGOUT ROOF FRAMING PLAN

SCALE: 1/4" = 1' 0"



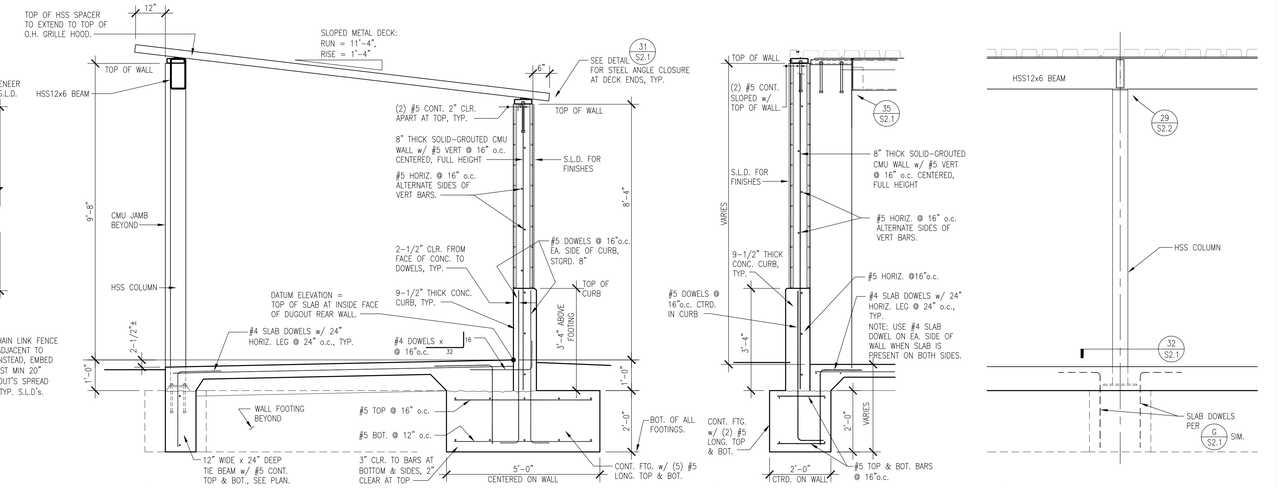
C DUGOUT - FRONT ELEVATION

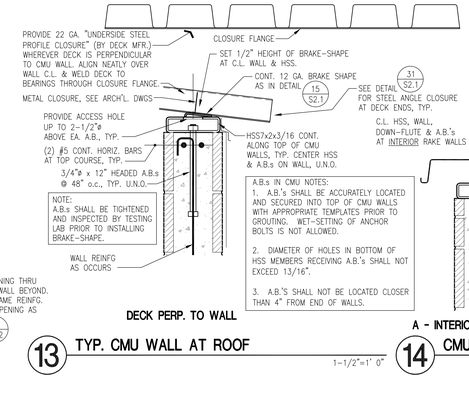
SCALE: 1/4" = 1' 0"

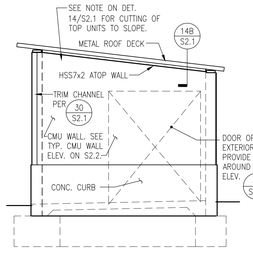


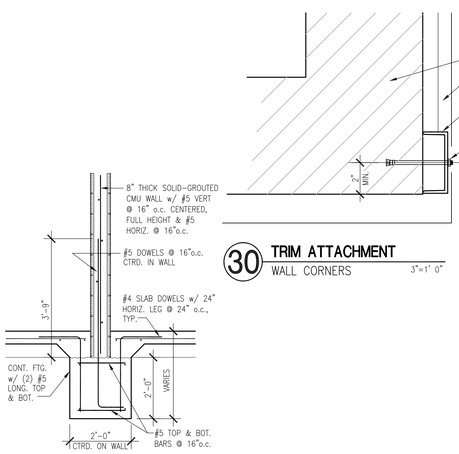
E DUGOUT - REAR ELEVATION

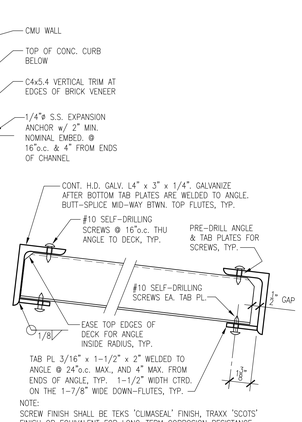
SCALE: 1/4" = 1' 0"

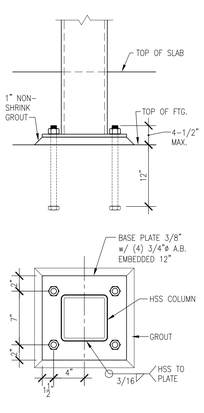






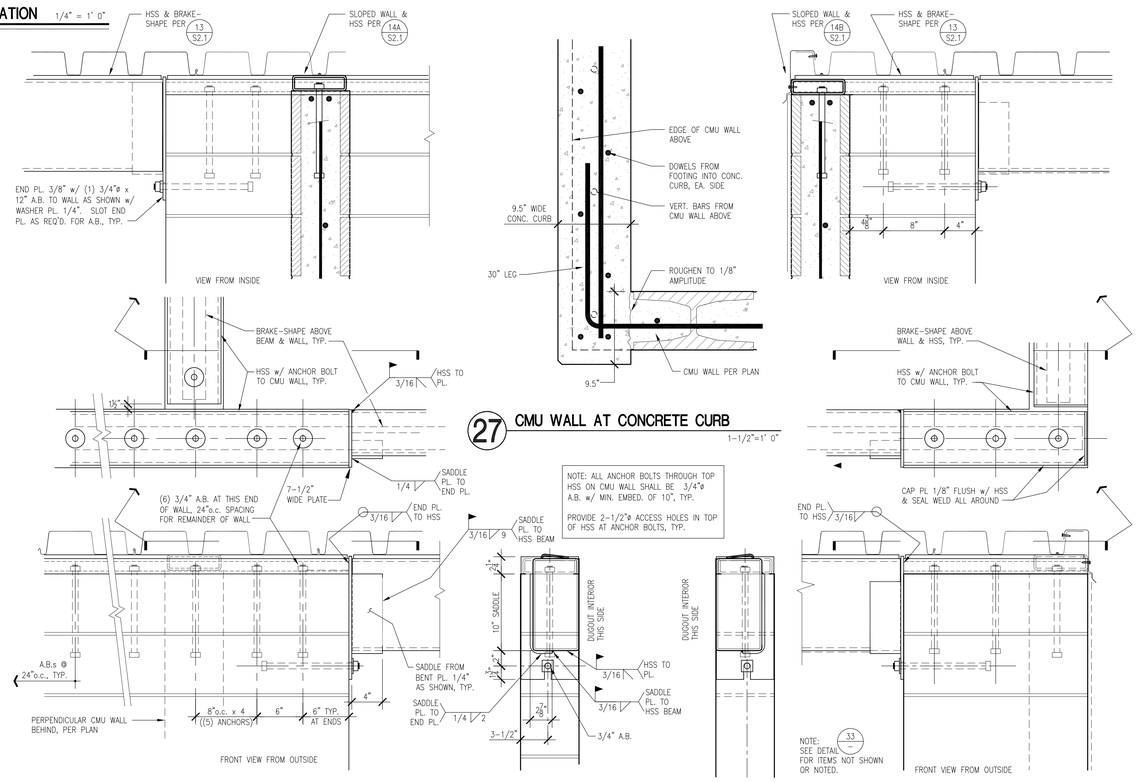






D TYP. END ELEVATION

1/4" = 1' 0"



29 DUGOUT WALL & FOOTING
INTERIOR WALL
1"=1' 0"

31 TYP. DECK CLOSURE AT ENDS
3"=1' 0"

32 BASE PLATE AT TS COLUMN
1-1/2"=1' 0"

33 BEAM CONN. TO CMU WALL TO ROOF
AT END WALL CORNER
1-1/2"=1' 0"

35 BEAM CONN. TO CMU WALL TO ROOF
AT STORAGE WALL CORNER
1-1/2"=1' 0"

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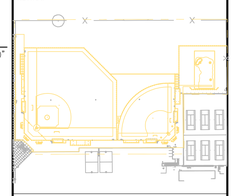
No. S3260
EXP. 3/31/23
STRUCTURAL
STATE OF CALIFORNIA

KEYMAP



SHEET TITLE
DUGOUT - STOR. ON LEFT PLANS, SECTIONS, ELEVATIONS & DETAILS

PROJECT NAME
HIRAM JOHNSON HIGH SCHOOL GOLF PRACTICE FACILITY, VARSITY BASEBALL AND SOFTBALL FIELDS

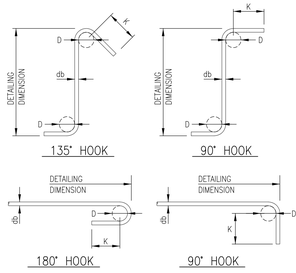
PROJECT ADDRESS
6879 14TH AVENUE SACRAMENTO, CA 95820

SUBMITTAL	DATE
DD 50% SUBMITTAL	04/15/22
100% DSA SUBMITTAL	05/27/22
DSA BACK CHECK	08/11/22
DSA ADDENDUM SUBMITTAL	09/16/22

NO.	REVISIONS	DATE
1	ADDENDUM	09/16/22

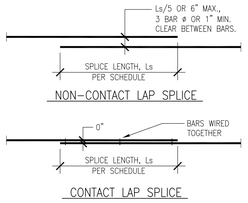
DRAWN BY: JJQ
CHECKED BY: TDH
DATE ISSUED: 09/16/2022
SCALE: AS NOTED
PROJ. NO.: 2203200
SHEET NO.: S2.1

DRAWING NAME: P:\Verde Design\M22-016 Hiram Johnson HS SB Golf Fields\Dwgs\Structural\S2-1 with STORAGE on Left.dwg
PLOT DATE: 09-15-22 PLOTTED BY: Jose



STANDARD HOOKS			
BAR SIZE	"D" IN	180° HOOKS "K"	90° HOOKS "K"
#3	2-1/4"	2-1/2"	4-1/2"
#4	3"	2-1/2"	6"
#5	3-3/4"	2-1/2"	7-1/2"
#6	4-1/2"	3"	9"
#7	5-1/4"	3-1/2"	10-1/2"
#8	6"	4"	12"

STIRRUP AND TIE HOOKS				
BAR SIZE	"D" IN	180° HOOKS "K"	135° HOOKS "K"	90° HOOKS "K"
#3	1-1/2"	2-1/2"	3"	3"
#4	2"	2-1/2"	3"	3"
#5	2-1/2"	2-1/2"	3-3/4"	3-3/4"
#6	4-1/2"	3"	4-1/2"	9"

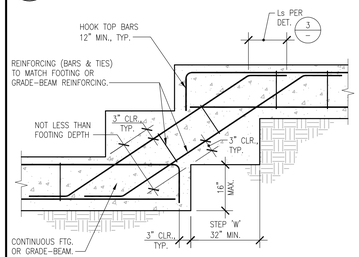


REBAR LAP SPLICE LENGTHS (Ls)			
BAR SIZE	HARD ROCK (REG. WT.) CONCRETE CLASS B SPLICE TYP., U.N.O.	TOP BARS (SEE NOTE 1)	GROUTED MASONRY (CMU)
#3	16"	19"	27"
#4	19"	25"	36"
#5	36"	47"	45"
#6	43"	56"	54"
#7	63"	81"	63"
#8	72"	93"	72"
#9	81"	105"	–
#10	90"	116"	–
#11	98"	128"	–

NOTES:
1. TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12" OF FRESH CONCRETE CAST BELOW BARS, IN SAME POUR AS BARS (AS IN DEEP BEAM OR FOOTING POURS, ETC.).
2. STAGGER LAPS IN SUCCESIVE PARALLEL BARS IN SLABS AND WALLS A DISTANCE EQUAL TO THE REQUIRED LAP SPLICE LENGTH, BUT NOT LESS THAN 24" (ALONG LENGTH OF BARS).
3. ALL LAP SPLICES SHALL BE CONTACT OR NON-CONTACT TYPE, AS SHOWN.
4. INCREASE SCHEDULED LAP LENGTHS BY 30% WHEN IN LIGHT WEIGHT CONCRETE.

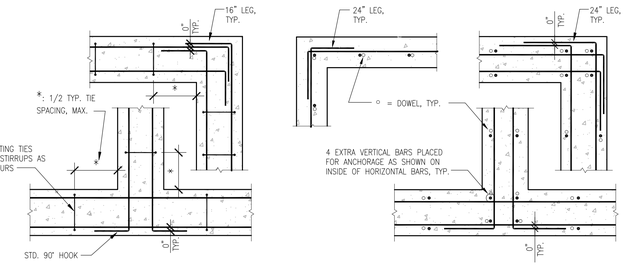
1 TYPICAL REBAR BENDS AND HOOKS

NO SCALE



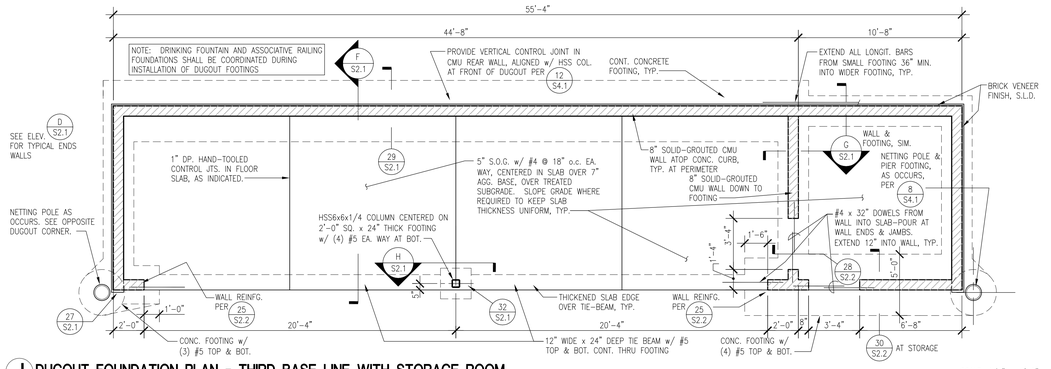
3 TYPICAL REBAR LAP SPLICES

NO SCALE



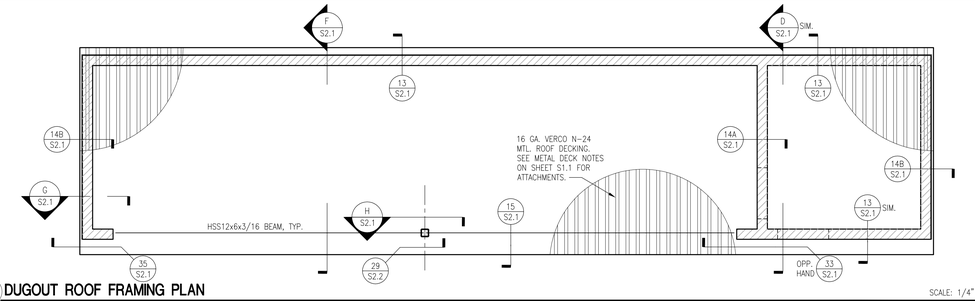
J DUGOUT FOUNDATION PLAN - THIRD BASE LINE WITH STORAGE ROOM

SCALE: 1/4" = 1' 0"



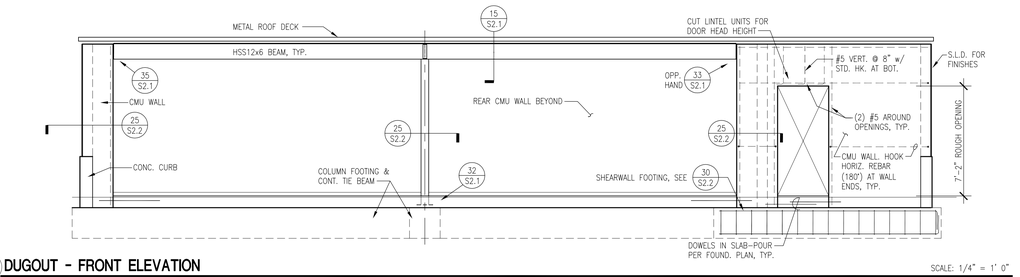
K DUGOUT ROOF FRAMING PLAN

SCALE: 1/4" = 1' 0"



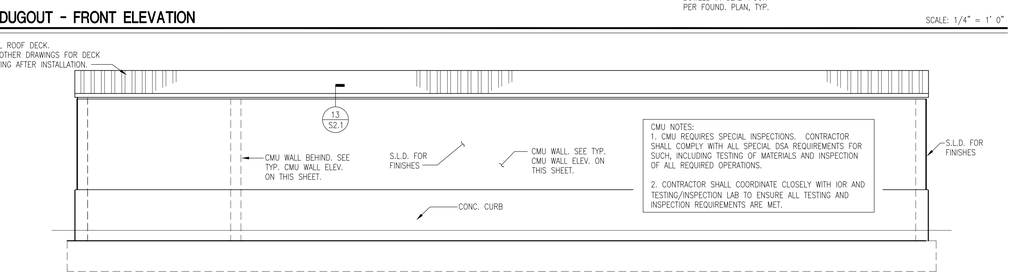
L DUGOUT - FRONT ELEVATION

SCALE: 1/4" = 1' 0"



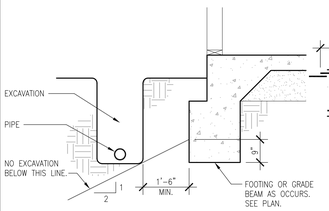
M DUGOUT - REAR ELEVATION

SCALE: 1/4" = 1' 0"



5 TYPICAL FOOTING STEPS

NO SCALE

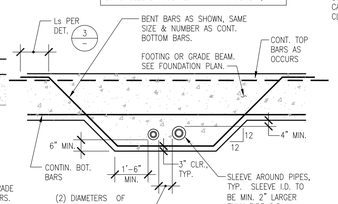


PARALLEL TO FOOTING

6 TYP. FOOTING INTERSECTION REBAR

3/4" = 1'-0"

NOTE: AT EXIST. PIPES, INSTALL SCHEDULE 40 PVC PIPE SLEEVE OVER EXIST. PIPE. CUT THE PIPE SLEEVE IN HALF IN ORDER TO INSTALL & BOND SLEEVE TOGETHER WITH PVC CEMENT, TYP.



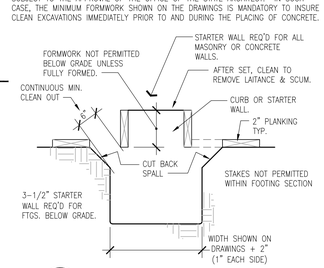
PERPENDICULAR TO FOOTING

7 TYP. WALL INTERSECTION REBAR

3/4" = 1'-0"

FOUNDATIONS – MANDATORY MINIMUM FORMWORK (UNLESS FULLY FORMED)

FOUNDATION CONCRETE MAY BE PLACED DIRECTLY INTO NEAT EXCAVATIONS PROVIDED THE FOUNDATION TRENCH WALLS ARE STABLE AS DETERMINED BY THE ENGINEER, SUBJECT TO THE APPROVAL OF THE OFFICE OF THE STATE ARCHITECT. IN SUCH CASE, THE MINIMUM FORMWORK SHOWN ON THE DRAWINGS IS MANDATORY TO INSURE CLEAN EXCAVATIONS IMMEDIATELY PRIOR TO AND DURING THE PLACING OF CONCRETE.



8 TYP. PIPES AND EXCAVATIONS NEAR FOOTINGS

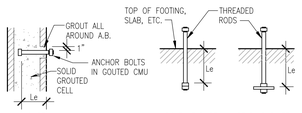
NO SCALE

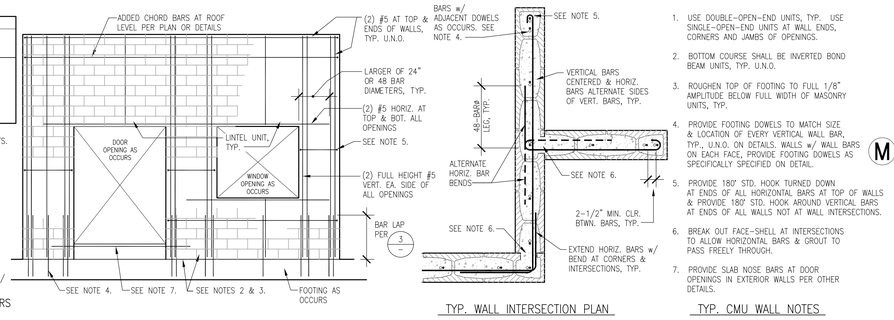
11 TYP. FOOTING TRENCHING & FORMING

NO SCALE

MINIMUM ANCHOR BOLT EMBEDMENT, Le (1)			
ANCHOR BOLT DIAMETER (ø)	IN TOP OF CONCRETE & MASONRY (CMU) COLUMNS & PILASTERS	IN CONCRETE FOOTINGS, SLABS & WALLS	IN MASONRY (CMU) WALLS
3/8"	6"	4"	4"
1/2"	7"	5"	5-1/2"
5/8"	8"	5"	5-1/2"
3/4"	10"	6"	5-1/2"
7/8"	10"	7"	8" (2)
1" – 1-1/4"	12"	10"	–

FOOTNOTES:
(1) MIN. EMBEDMENT, U.N.O. SEE OTHER DETAILS FOR HOLDOWNS & SPECIAL BOLTS.
(2) 12" WALLS ONLY. NOT ALLOWED IN 8" WALLS.





TYP. WALL INTERSECTION PLAN

1. USE DOUBLE-OPEN-END UNITS, TYP. USE SINGLE-OPEN-END UNITS AT WALL ENDS, CORNERS AND JAMBS OF OPENINGS.
2. BOTTOM COURSE SHALL BE INVERTED BOND BEAM UNITS, TYP. U.N.O.
3. ROUGHEN TOP OF FOOTING TO FULL 1/8" AMPLITUDE BELOW FULL WIDTH OF MASONRY UNITS, TYP.
4. PROVIDE FOOTING DOWELS TO MATCH SIZE & LOCATION OF EVERY VERTICAL WALL BAR, TYP., U.N.O. ON DETAILS. WALLS w/ WALL BARS ON EACH FACE, PROVIDE FOOTING DOWELS AS SPECIFICALLY SPECIFIED ON DETAIL.
5. PROVIDE 180° STD. HOOK TURNED DOWN AT ENDS OF ALL HORIZONTAL BARS AT TOP OF WALLS & PROVIDE 180° STD. HOOK AROUND VERTICAL BARS AT ENDS OF ALL WALLS NOT AT WALL INTERSECTIONS.
6. BREAK OUT FACE-SHELL AT INTERSECTIONS TO ALLOW HORIZONTAL BARS & GROUT TO PASS FREELY THROUGH.
7. PROVIDE SLAB NOSE BARS AT DOOR OPENINGS IN EXTERIOR WALLS PER OTHER DETAILS.

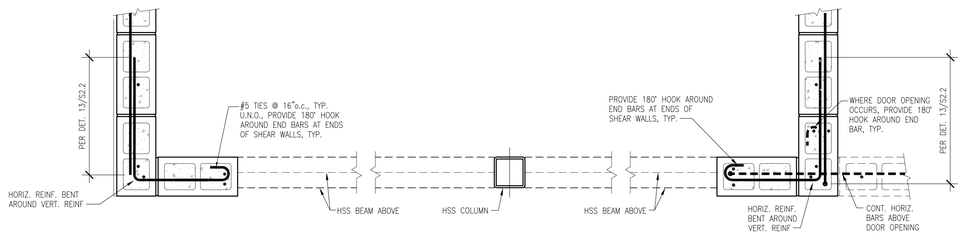
TYP. CMU WALL NOTES

12 TYP. A.B. EMBEDMENTS

NO SCALE

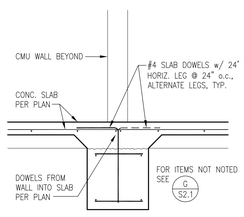
13 TYP. MASONRY WALL

NO SCALE



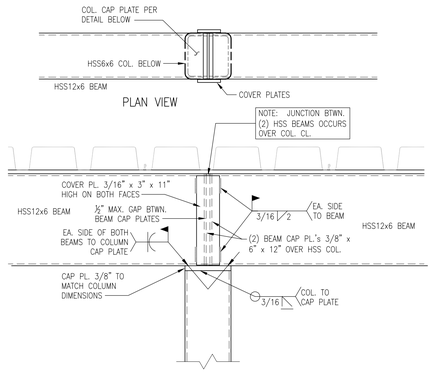
25 WALL REINFORCING PLAN AT DUGOUT OPENING

1"=1' 0"



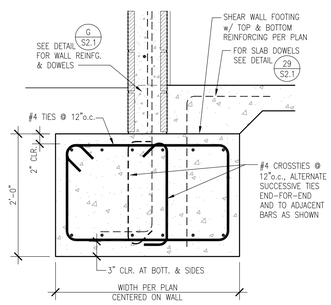
28 CONT. INTERIOR FOOTING

1/2"=1' 0"



29 HSS BEAM CONNECTION AT HSS COLUMN

1-1/2"=1' 0"



30 SHEARWALL FOOTING

1"=1' 0"

VERDE DESIGN
LANDSCAPE ARCHITECTURE
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SPORT PLANNING & DESIGN
1843 Iron Point Rd. Suite 140
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fax: 916.415.6525
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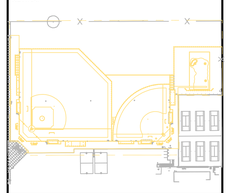
CONSULTANT

AKH
Structural Engineers, Inc
1505 Meridian Avenue, Ste. B ph: 408.978.1970
San Jose, California 95125 web: AKHSE.com

REGISTERED PROFESSIONAL ENGINEER — JOHN D. HYDE — No. S3260 EXP. 3/31/23 — STRUCTURAL — STATE OF CALIFORNIA

KEYMAP



SHEET TITLE

DUGOUT, STOR. ON RIGHT PLANS, ELEVATIONS & DETAILS

PROJECT NAME

HIRAM JOHNSON HIGH SCHOOL GOLF PRACTICE FACILITY, VARSITY BASEBALL AND SOFTBALL FIELDS

PROJECT ADDRESS

6879 14TH AVENUE SACRAMENTO, CA 95820

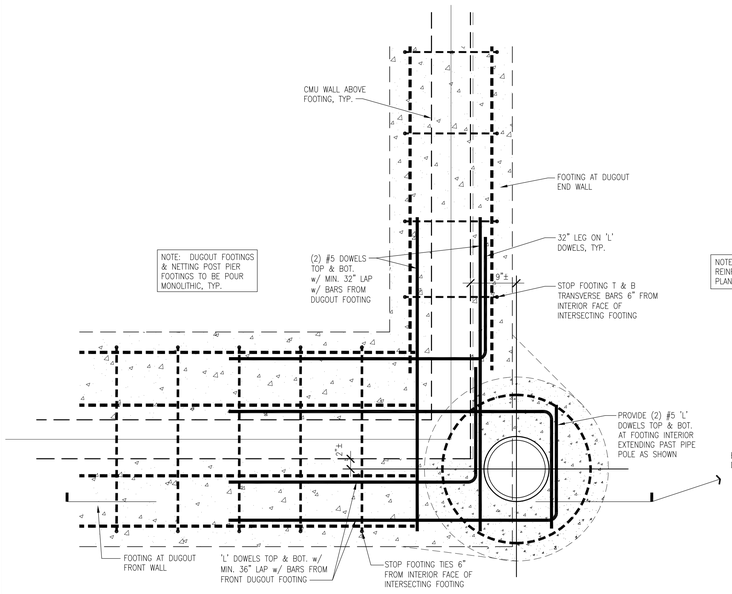
SUBMITTAL	DATE
DD 50% SUBMITTAL	04/15/22
100% DSA SUBMITTAL	05/27/22
DSA BACK CHECK	08/11/22
DSA ADDENDUM SUBMITTAL	09/16/22

NO.	REVISIONS	DATE
1	ADDENDUM	09/16/22

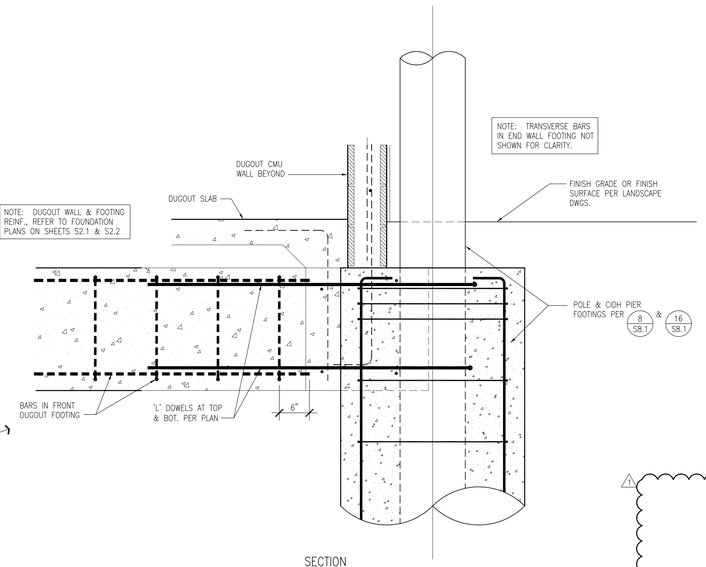
DRAWN BY	CHECKED BY
JJQ	TDH
DATE ISSUED	SCALE
09/16/2022	AS NOTED

PROJ. NO. 2203200

SHEET NO. S2.2

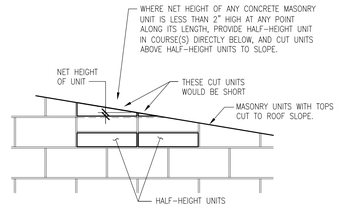


PLAN VIEW



SECTION

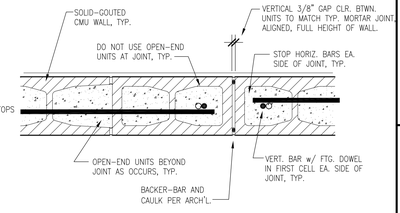
8 NETTING POLE AT DUGOUT CORNERS



ELEVATION OF CMU WALL WITH SLOPED TOP

11 TYP. MASONRY UNIT HEIGHT LIMITATIONS

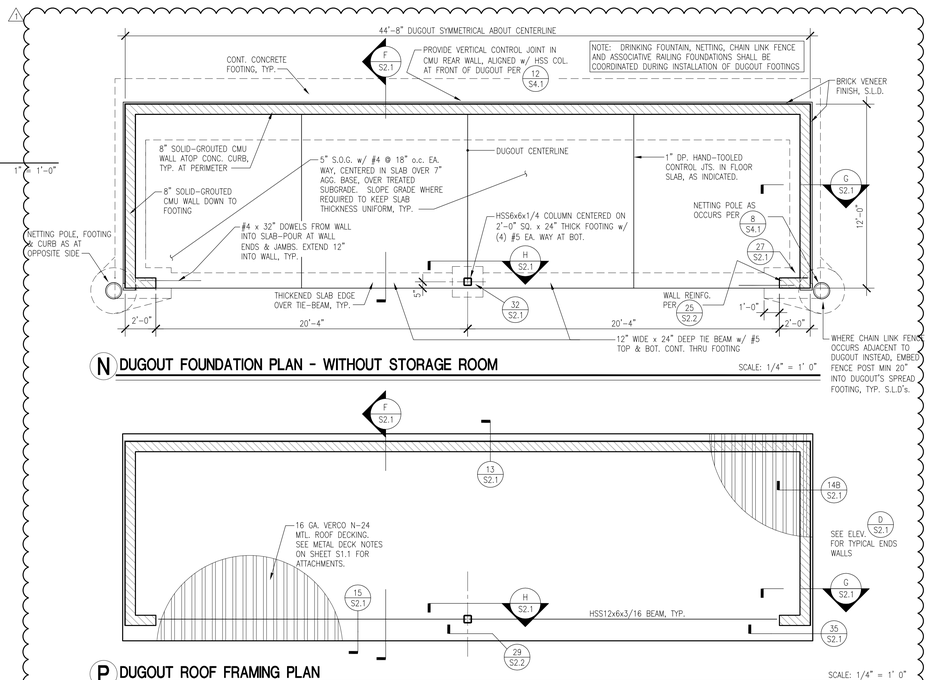
NO SCALE



WALL PLAN VIEW

12 TYP. CMU WALL VERT. CONTROL JOINTS

NO SCALE

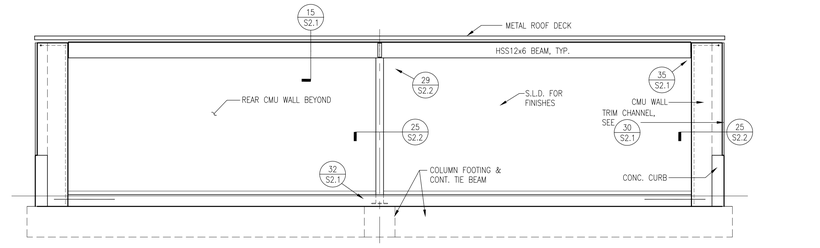


N DUGOUT FOUNDATION PLAN - WITHOUT STORAGE ROOM

SCALE: 1/4" = 1' 0"

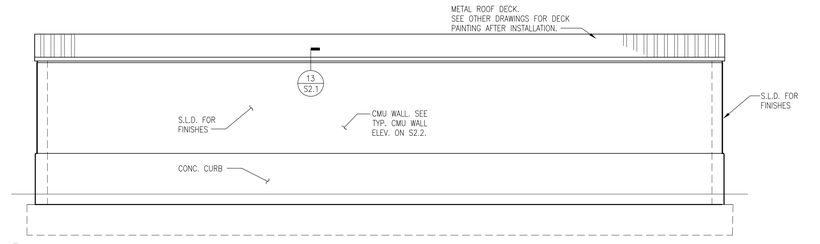
P DUGOUT ROOF FRAMING PLAN

SCALE: 1/4" = 1' 0"



Q DUGOUT - FRONT ELEVATION

SCALE: 1/4" = 1' 0"



R DUGOUT - REAR ELEVATION

SCALE: 1/4" = 1' 0"

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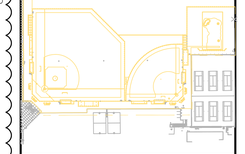
REGISTERED PROFESSIONAL ENGINEER TIM D. HYDE No. S3260 EXP. 3/31/23 STRUCTURAL CALIFORNIA

KEYMAP



SHEET TITLE

DUGOUT w/o STORAGE PLANS, STRUCTURAL DETAILS

PROJECT NAME

HIRAM JOHNSON HIGH SCHOOL
GOLF PRACTICE FACILITY, VARSITY BASEBALL AND SOFTBALL FIELDS

PROJECT ADDRESS

6879 14TH AVENUE
SACRAMENTO, CA 95820

SUBMITTAL	DATE
DD 50% SUBMITTAL	04/15/22
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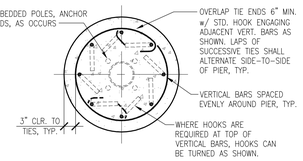
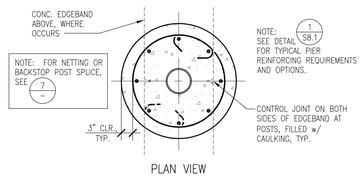
NO.	REVISIONS	DATE
1	ADDENDUM	09/16/22

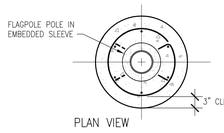
DRAWN BY	CHECKED BY
JJQ	TDH
DATE ISSUED	SCALE
09/16/2022	AS NOTED
PROJ. NO.	
2203200	
SHEET NO.	
S4.1	



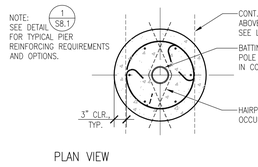
NOTE: CIRCULAR SPIRAL TIES OF SAME SIZE AND PITCH MAY BE USED IN LIEU OF CIRCULAR TIES NOTED. ADDITIONALLY, PROVIDE TWO (2) FULL TURNS AT TOP AND BOTTOM OF SPIRAL.



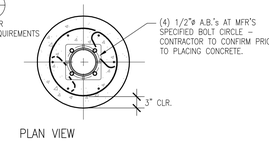
PLAN VIEW



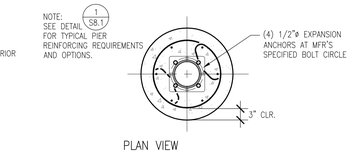
PLAN VIEW



PLAN VIEW



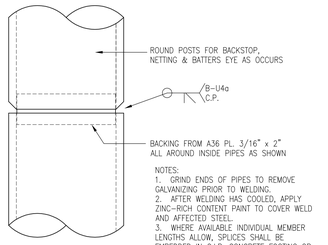
PLAN VIEW



PLAN VIEW

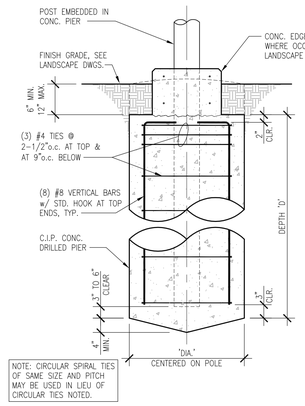
1 TYPICAL PIER REINFORCING REQUIREMENTS

3/4"=1' 0"

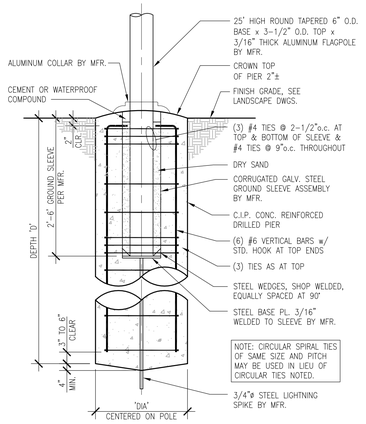


NOTES:
1. GRIND ENDS OF PIPES TO REMOVE GALVANIZING PRIOR TO WELDING.
2. AFTER WELDING HAS COOLED, APPLY ZINC-RICH CONTENT PAINT TO COVER WELD AND AFFECTED STEEL.
3. WHERE AVAILABLE INDIVIDUAL MEMBER LENGTHS ALLOW, SPLICES SHALL BE EMBEDDED IN C.I.P. CONCRETE FOOTING OR BACKSTOP WALL, AS OCCURS.

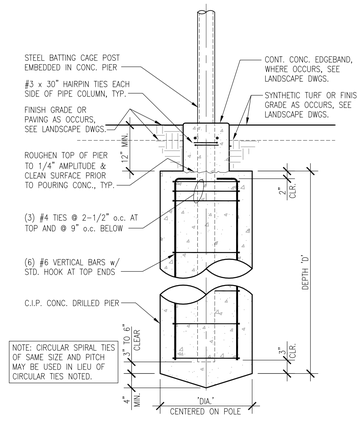
SPLICE POLE SEGMENTS OF SAME SIZE AS SHOWN WHEN FULL-LENGTH POLE MATERIAL IS NOT AVAILABLE.



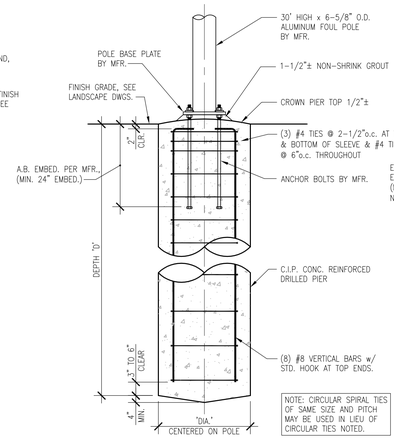
NOTE: CIRCULAR SPIRAL TIES OF SAME SIZE AND PITCH MAY BE USED IN LIEU OF CIRCULAR TIES NOTED.



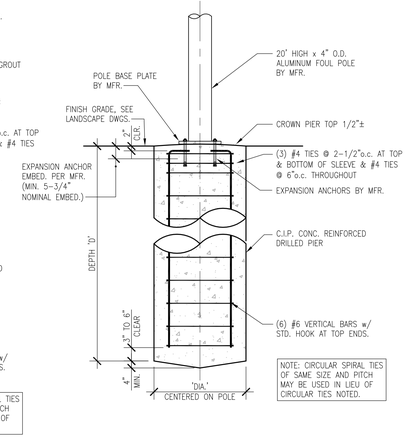
NOTE: CIRCULAR SPIRAL TIES OF SAME SIZE AND PITCH MAY BE USED IN LIEU OF CIRCULAR TIES NOTED.



NOTE: CIRCULAR SPIRAL TIES OF SAME SIZE AND PITCH MAY BE USED IN LIEU OF CIRCULAR TIES NOTED.



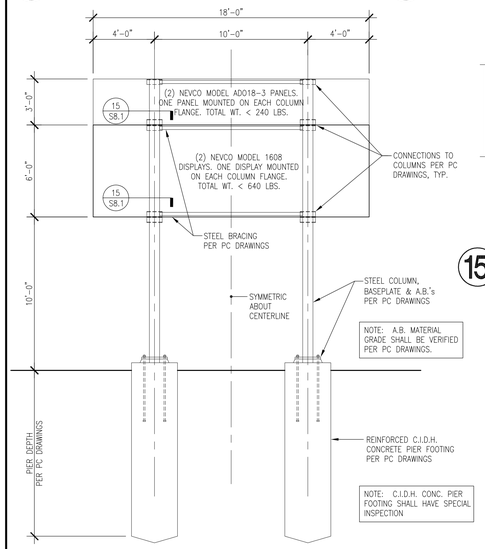
NOTE: CIRCULAR SPIRAL TIES OF SAME SIZE AND PITCH MAY BE USED IN LIEU OF CIRCULAR TIES NOTED.



NOTE: CIRCULAR SPIRAL TIES OF SAME SIZE AND PITCH MAY BE USED IN LIEU OF CIRCULAR TIES NOTED.

7 TYPICAL POLE/POST SPLICE

NO SCALE



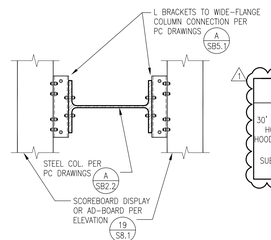
NOTE: A.B. MATERIAL GRADE SHALL BE VERIFIED PER PC DRAWINGS.

NOTE: C.I.D.H. CONC. PIER FOOTING SHALL HAVE SPECIAL INSPECTION

APPLICATION OF (2) SCOREBOARD ASSEMBLIES ON SAME COLUMNS, BACK-TO-BACK: SCHEDULE AT A/S82.2 OF PC DRAWINGS SHOWS THAT 18'-WIDE ASSEMBLY UP TO 12' HIGH CAN WEIGH UP TO 2,600 LBS. ASSEMBLY OF (2) 1608 SCOREBOARDS AND (2) AD018-3 AD PANELS: 18'-0" W x 9'-0" H, AND TOTAL ASSEMBLY WEIGHT < 900 LBS. THUS, COLUMNS AND FOOTINGS SPECIFIED IN SCHEDULE A/S82.2 ARE APPLICABLE. ALSO, PROVIDING BOARD ASSEMBLY ON BOTH SIDES OF W-COLUMNS ELIMINATES ECCENTRICITY OF WEIGHT ON COLUMNS AND FOOTINGS. ENGINEER FROM SSG STRUCTURAL ENGINEERS WAS IN AGREEMENT THAT SCHEDULE A/S82.2 IS APPLICABLE TO THIS CONFIGURATION.

8 BACKSTOP & NETTING FOOTING

3/4"=1' 0"



9 FLAG POLE FOOTING

3/4"=1' 0"

POLE TYPE	PIER DIAMETER, "DIA"	MIN. PIER DEPTH, "D"	PIER REINFORCING	COMMENTS
30' HIGH BACKSTOP w/ HOOD, SUPPORTING HOOD CABLES – OPTION. (ADD– OR SUBTRACT–ALTERNATE)	30"	8'–6"	SEE DETAIL 8	10"ø STD. PIPE POSTS (SCHED. 40, 10.800" O.D. x 0.365" WALL, ASTM A53, GR. B, Fy=35 ksi). MAX. POST SPACING = 10'–0" o.c. SPLICE POSTS WHERE REQD. PER DET. 7/S8.1.

10 BATTING CAGE FOOTING

SIM. AT GOLF DRIVING RANGE

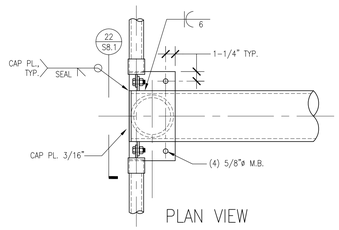
3/4"=1' 0"

POLE TYPE	PIER DIAMETER, "DIA"	MIN. PIER DEPTH, "D"	PIER REINFORCING	COMMENTS
14' HIGH BATTING CAGE	18"	7'–6"	SEE DETAIL 10	5"ø STD. PIPE POSTS (SCHED. 40, 5.600" O.D. x 0.241" WALL, ASTM A53, GR. B, Fy=35 ksi).
16' HIGH GOLF DRIVING RANGE CAGE	18"	6'–6"	SEE DETAIL 10	5"ø STD. PIPE POSTS (SCHED. 40, 5.600" O.D. x 0.241" WALL, ASTM A53, GR. B, Fy=35 ksi).
20' HIGH FOUL POLE	24"	6'–0"	SEE DETAIL 12	ROUND ALUMINUM POLE AND GROUND SLEEVE BY OTHERS. HEIGHT FROM GRADE TO BOTTOM OF WING SCREEN = 8'–0"
30' HIGH FOUL POLE	30"	6'–0"	SEE DETAIL 11	ROUND ALUMINUM POLE AND GROUND SLEEVE BY OTHERS. HEIGHT FROM GRADE TO BOTTOM OF WING SCREEN = 8'–0"
25' HIGH FLAGPOLE	24"	5'–0"	SEE DETAIL 9	ROUND TAPERED ALUMINUM FLAGPOLE AND GROUND SLEEVE BY OTHERS; MAX. FLAG SIZE = 5' x 8'
30" HIGH NETTING POSTS ADJACENT TO DUGOUTS (APPROX. 19'–6" HIGH NETTING ABOVE DUGOUTS, SEE LANDSCAPE DWGS.)	30"	7'–0"	SEE DETAIL 8	10"ø STD. PIPE POSTS (SCHED. 40, 10.800" O.D. x 0.365" WALL, ASTM A53, GR. B, Fy=35 ksi). SPLICE POSTS WHERE REQD. PER DET. 7/S8.1.
30" HIGH NETTING – THROUGHOUT REST OF FIELDS (22' HIGH NETTING ABOVE 8' HIGH C.L. FENCE, SEE LANDSCAPE DWGS.)	30"	9'–0"	SEE DETAIL 8	8"ø STD. PIPE POSTS (SCHED. 40, 8.625" O.D. x 0.322" WALL, ASTM A53, GR. B, Fy=35 ksi). MAX. POST SPACING = 10'–0" o.c. SPLICE POSTS WHERE REQD. PER DET. 7/S8.1.
30' HIGH BACKSTOP	30"	6'–6"	SEE DETAIL 8	8"ø STD. PIPE POSTS (SCHED. 40, 8.625" O.D. x 0.322" WALL, ASTM A53, GR. B, Fy=35 ksi). MAX. POST SPACING = 10'–0" o.c. SPLICE POSTS WHERE REQD. PER DET. 7/S8.1.

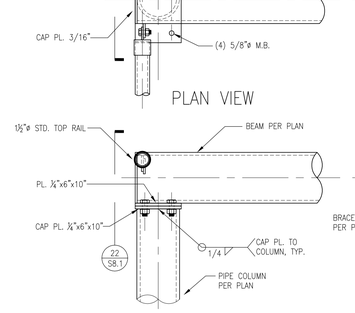
11 FOUL POLE FOOTING

BASEBALL FIELD

3/4"=1' 0"



PLAN VIEW



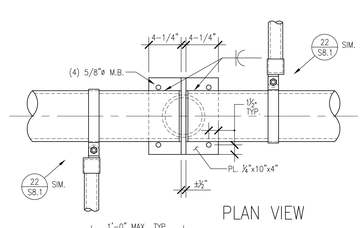
ELEVATION

A – BEAM SUPPORT (EXTERIOR)

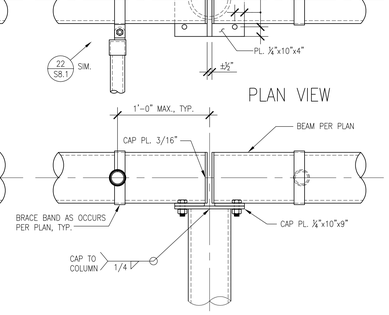
12 FOUL POLE FOOTING

SOFTBALL FIELD

3/4"=1' 0"



PLAN VIEW



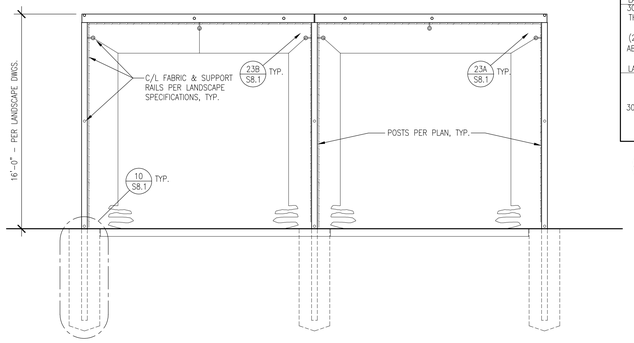
ELEVATION

B – BEAM SUPPORT (INTERIOR)

15 SCHEMATIC SCOREBOARDS ASSEMBLY DETAIL

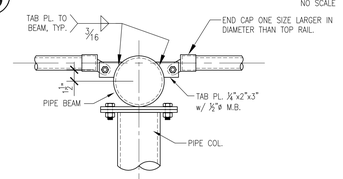
FOR REFERENCE ONLY

1/2"=1' 0"



16 POLE/POST & C.I.D.H. PIER SCEDULE

NO SCALE



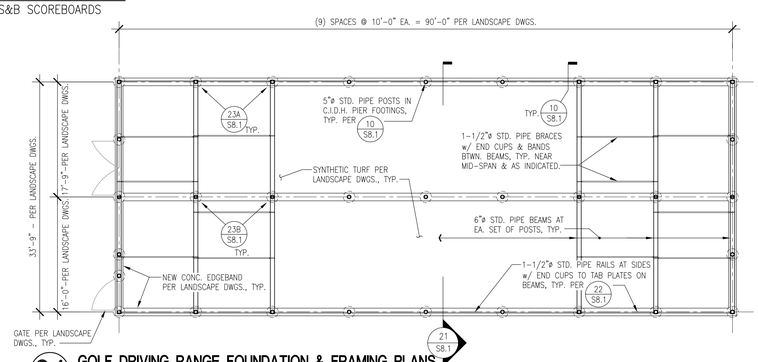
19 SCHEMATIC SCOREBOARD ELEVATION

NO SCALE

DESIGN PER NEVCO PC DRAWINGS – BACK-TO-BACK S&B SCOREBOARDS

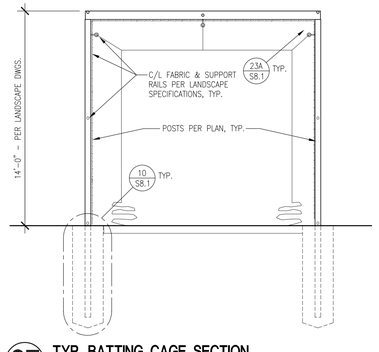
21 GOLF DRIVING RANGE SECTION

1"=1' 0"



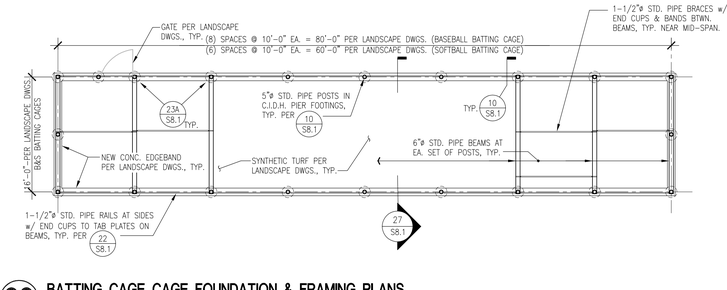
22 SECTION - TOP RAIL AT PIPE BEAM CONN.

1–1/2"=1' 0"



23 BATTING CAGE BEAM CONNECTIONS

1–1/2"=1' 0"



24 GOLF DRIVING RANGE FOUNDATION & FRAMING PLANS

1/8"=1' 0"

27 TYP. BATTING CAGE SECTION

1"=1' 0"

29 BATTING CAGE CAGE FOUNDATION & FRAMING PLANS

1/8"=1' 0"

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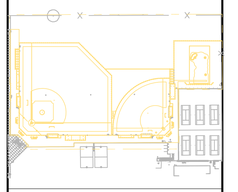
KEYMAP



SHEET TITLE
BB, SB & GOLF FIELDS SITE STRUCTURES FOUNDATION DETAILS

PROJECT NAME
HIRAM JOHNSON HIGH SCHOOL GOLF PRACTICE FACILITY, VARSITY BASEBALL AND SOFTBALL FIELDS

PROJECT ADDRESS
6879 14TH AVENUE SACRAMENTO, CA 95820

SUBMITTAL	DATE
DD 50% SUBMITTAL	04/15/22
100% DSA SUBMITTAL	05/27/22
DSA BACK CHECK	08/11/22
DSA ADDENDUM SUBMITTAL	09/16/22

NO.	REVISIONS	DATE
1	ADDENDUM	09/16/22

DRAWN BY	CHECKED BY
JJQ	TDH
DATE ISSUED: 09/16/2022	SCALE: AS NOTED
PROJ. NO.: 2203200	
SHEET NO.: S8.1	

DRAWING NAME: P:\Verde Design\M22-016 Hiram Johnson BB SB Golf Fields\Dwgs\Structural\S8-1 Site Structures Details.dwg
PLOT DATE: 09-15-22 PLOTTED BY: jose

GENERAL NOTES:

1. READ THE COMPLETE SPECIFICATIONS, CONTRACT DOCUMENTS AND COMPLY WITH EACH REQUIREMENTS.
2. THE COMPLETE ELECTRICAL INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF THE N.E.C., AND ALL APPLICABLE STATE AND LOCAL CODES ISSUED BY AUTHORITIES HAVING JURISDICTION.
3. THE CONTRACTOR SHALL BE LICENSED BY THE STATE OF CALIFORNIA C-10 AND SHALL COMPLY WITH ALL APPLICABLE CODES AND REGULATIONS. MATERIALS AND EQUIPMENT SHALL BE U.L. LISTED AND LABELED FOR THE APPLICATION.
4. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS, LICENSES AND INSPECTION FEES REQUIRED BY THIS CONTRACT WORK.
5. PRIOR TO SUBMITTING A BID THE CONTRACTOR SHALL VISIT THE SITE, REVIEW THE EXISTING CONDITIONS AND ALLOW FOR LABOR, MATERIAL AND COORDINATION THAT IS NECESSARY TO PROVIDE A COMPLETE INSTALLATION OF EACH SYSTEM. THE CONTRACTOR SHALL OBTAIN AND BE FAMILIAR WITH ALL OTHER TRADES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ELECTRICAL WORK NOTED AND CALLED OUT ON ALL CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION BETWEEN OTHER TRADES ON PROJECT.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF PERSONS AND PROPERTY AND SHALL PROVIDE INSURANCE COVERAGE AS NECESSARY FOR LIABILITY, PERSONAL, PROPERTY DAMAGE, TO FULLY PROTECT THE OWNER, ARCHITECT AND ENGINEER FROM ANY AND ALL CLAIMS RESULTING FROM THIS WORK.
7. THE CONTRACTOR SHALL MAINTAIN RECORD DRAWINGS AT THE PROJECT SITE INDICATING ALL MODIFICATIONS TO ELECTRICAL SYSTEMS. THE CONTRACTOR SHALL AT THE CONCLUSION OF THE PROJECT PROVIDE ACCURATE "AS-BUILT" DRAWINGS. "AS-BUILT" DRAWINGS SHALL SHOW ACTUAL CHANGES TO ORIGINAL ELECTRICAL DRAWING, SHOW LOCATIONS OF PULLBOXES, CONDUIT RUNS AND WIRING CHANGES.
8. ALL MATERIALS PROVIDED TO THE PROJECT SHALL BE UL OR CSA LISTED AND SHALL BE NEW. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE AND INSTALL ALL INCIDENTAL MATERIALS REQUIRED FOR A COMPLETE INSTALLATION.
9. THE CONTRACTOR SHALL PROVIDE ALL REQUIRED "CUTTING, PATCHING, EXCAVATION, BACKFILL AND REPAIRS" NECESSARY TO RESTORE DAMAGED SURFACES TO EQUAL OR BETTER THAN ORIGINAL CONDITIONS EXISTING AT START OF WORK. THE CONTRACTOR SHALL CONTACT "UNDERGROUND SERVICES ALERT" FOR LOCATION OF EXISTING UTILITIES PRIOR TO COMMENCEMENT OF UNDERGROUND WORK.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PAINTING ALL EXPOSED CONDUITS AND ELECTRICAL EQUIPMENT. REFER TO ARCHITECTS PAINTING SECTION FOR REQUIREMENTS.
11. ALL ELECTRICAL EQUIPMENT INSTALLED OUTDOORS SHALL BE WEATHERPROOF. EXTERIOR CONDUITS RUN INTO BUILDINGS SHALL BE INSTALLED WITH FLASHING, CAULKED AND SEALED. CONDUITS FOR EXTERIOR ELECTRICAL DEVICES SHALL BE RUN INSIDE BUILDING UNLESS OTHERWISE NOTED ON DRAWINGS. ALL EXTERIOR CONDUITS SHALL BE "RSG" UNLESS OTHERWISE NOTED ON DRAWINGS.
12. ALL CONDUITS UNLESS OTHERWISE NOTED ON DRAWINGS SHALL HAVE AS A MINIMUM: TWO (2) #12'S WITH ONE (1) #12 GROUND. "TICK" MARKS SHOWN ON CIRCUITRY ARE FOR "ROUGH" ESTIMATING ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WIRES AND WIRE SIZES REQUIRED BY LATEST CODE.
13. COORDINATE ALL CONDUIT RUNS, ELECTRICAL EQUIPMENT AND PANELS WITH ALL OTHER WORK TO AVOID CONFLICTS.
14. ELECTRICAL EQUIPMENT SHOWN ON THIS DRAWING HAS BEEN SELECTED BASED ON DIMENSIONS TO FIT THE SPACE, THE CONTRACTOR SHALL VERIFY ALL EQUIPMENT DIMENSIONS PRIOR TO ORDERING OF THE EQUIPMENT.
15. CONTRACTOR SHALL REVIEW EQUIPMENT REQUIREMENTS OF OTHER TRADES AND PROVIDE POWER CIRCUITS AND CONNECTIONS TO ELECTRICALLY OPERATED EQUIPMENT.
16. CONTRACTOR SHALL DETERMINE EXACT LOCATION OF UNDERGROUND POWER AND TELEPHONE SERVICES FROM SERVING UTILITIES. FIELD ADJUSTMENTS MAY BE REQUIRED IN INDIVIDUAL SERVICE LOCATIONS.
17. THE CONTRACTOR SHALL CONTACT "UNDERGROUND SERVICES ALERT" FOR LOCATION OF EXISTING UTILITIES PRIOR TO COMMENCEMENT OF UNDERGROUND WORK.
18. NEW DUCT ROUTES ARE APPROXIMATE ONLY AND MAY BE ADJUSTED IN THE FIELD TO CLEAR OTHER UNDERGROUND UTILITIES. PROVIDE AS-BUILT DRAWINGS TO INDICATE ACTUAL LOCATION OF CONDUIT ROUTING.
19. EFFECTIVELY BOND ELECTRICAL CABINETS. ENCLOSURES AND CONDUIT RACEWAYS TO CODE APPROVED GROUND AS PART OF THE CONTINUOUS GROUNDING SYSTEM.
20. FROM ALL NEW PANELS; THE CONTRACTOR SHALL STUB UP INTO ACCESSIBLE CEILING SPACE A MINIMUM OF FOUR (4) 3/4" CONDUITS FOR FUTURE USE.
21. UTILITY SERVICE WORK SHALL BE IN ACCORDANCE WITH THE SERVING UTILITY COMPANY'S RULES, REGULATIONS AND STANDARDS, AND SHALL BE VERIFIED WITH UTILITY COMPANY'S ENGINEERING DRAWINGS AND FIELD SUPERVISOR PRIOR TO COMMENCEMENT OF WORK. THE CONTRACTOR SHALL DETERMINE EXACT LOCATION OF UNDERGROUND POWER, CATV AND TELEPHONE SERVICES FROM SERVING UTILITIES. FIELD ADJUSTMENTS MAY BE REQUIRED IN INDIVIDUAL SERVICE LOCATIONS. THE CONTRACTOR SHALL REMAIN IN CONTACT WITH UTILITY COMPANY ENGINEERING DEPARTMENTS THROUGHOUT PROJECT TO INSURE COORDINATION AND SCHEDULING OF WORK.
22. THE CONTRACTOR SHALL PROVIDE IN EVERY CONDUIT A DRAW STRING FOR USE IN FUTURE CONSTRUCTION. STRING SHALL BE NYLON PULLSTRING ROPE/STRING.
23. POWER FEEDERS MAY NOT BE SHOWN ON THE DRAWINGS, REFER TO THE SINGLE LINE DIAGRAM FOR CONDUIT AND FEEDER INFORMATION. ALL DRAWINGS ARE DIAGRAMMATIC INDICATING LOCATION OR POSITION OF EQUIPMENT. FIELD VERIFY CONDITIONS PRIOR TO INSTALLATION OF ANY WORK.
24. MANUFACTURER'S RECOMMENDATIONS FOR CONDUCTOR SIZING, CIRCUIT BREAKER OR FUSE PROTECTION OF ELECTRICALLY OPERATED EQUIPMENT MAY DIFFER FROM THOSE INDICATED ON DRAWINGS. CONTRACTOR SHALL CONFIRM RATINGS PRIOR TO ORDERING EQUIPMENT. PROVIDE ELECTRICAL PROTECTION TO EQUIPMENT IN ACCORDANCE TO MANUFACTURER'S SPECIFICATIONS AND PER NATIONAL ELECTRICAL CODE REQUIREMENTS.
25. PROVIDE SEISMIC BRACING FOR ALL PENDANT LIGHT FIXTURES, FREESTANDING ELECTRICAL DISTRIBUTION EQUIPMENT, MOTOR CONTROL CENTERS ETC; AND CONDUIT RACKS PER SEISMIC CRITERIA 2019 CBC REQUIREMENTS INCLUDING ENGINEERED LOAD CALCULATIONS COMPLETE WITH SWAY BRACING CRITERIA.
26. DO NOT SUBSTITUTE SPECIFIED MATERIAL OR EQUIPMENT WITHOUT FIRST OBTAINING APPROVAL FROM THE OWNER OR HIS REPRESENTATIVE.
27. ALL SPACES ON PANELS OR SWITCHBOARDS SHALL BE COMPLETE WITH HARDWARES AND BUSSING FOR FUTURE BREAKER OR SWITCH.
28. ALL ELECTRICAL WORK SHALL COMPLY WITH THE 2017 NATIONAL ELECTRICAL CODE AS AMENDED BY THE 2019 CALIFORNIA ELECTRICAL CODE.
29. SPLICE GROUND WIRE INSIDE ALL METAL ELECTRICAL PULL BOXES AND BOND TO METAL COVER WITH #6 CU GND.

SYMBOL LIST:

1 / E1.1	PLAN, DETAIL OR SECTION DESIGNATION.
201	ROOM NUMBER.
1	SHEET REFERENCE SYMBOL - SEE ASSOCIATED NOTE ON SAME SHEET.
3	FEEDER SCHEDULE SYMBOL.
CH 2	MECHANICAL EQUIPMENT TAG.
A	INDICATES FIXTURE TYPE

LUMINAIRE SYMBOLS

- LUMINAIRE - SEE SCHEDULE.
- LUMINAIRE - SEE SCHEDULE.
- LUMINAIRE - SEE SCHEDULE.
- LUMINAIRE - SEE SCHEDULE.
- LUMINAIRE - SEE SCHEDULE.
- LUMINAIRE WALL MOUNTED-SEE SCHEDULE.
- EMERGENCY LUMINAIRE - PROVIDE EMERGENCY BATTERY BALLAST
- EM — EMERGENCY LUMINAIRE - PROVIDE EMERGENCY BATTERY BALLAST
- EMERGENCY LUMINAIRE - PROVIDE EMERGENCY BATTERY BALLAST
- EMERGENCY LUMINAIRE - PROVIDE EMERGENCY BATTERY BALLAST
- EMERGENCY LUMINAIRE - PROVIDE EMERGENCY BATTERY BALLAST
- EMERGENCY LUMINAIRE WALL MOUNTED- PROVIDE EMERGENCY BATTERY BALLAST
- EXIT LIGHT SINGLE FACE - SEE SCHEDULE.
- EXIT LIGHT SINGLE FACE (WITH ARROW)- SEE SCHEDULE.
- EXIT LIGHT (DOUBLE FACED WITH ARROW)- SEE SCHEDULE.
- COMBO EMERGENCY LIGHT/ EXIT LIGHT SINGLE FACE - SEE SCHEDULE.
- EMERGENCY BATTERY PACK EXIT LIGHT INSTALL AS DIRECTED.

TYPICAL LUMINAIRE NOMENCLATURE

3a — INDICATES SWITCHING DESIGNATION

INDICATES CIRCUIT NUMBER

SWITCH SYMBOLS

$	SINGLE POLE SWITCH, + 48" AFF UON.
$a	SINGLE POLE SWITCH, + 48" AFF UON, a = CIRCUIT CONTROLLED.
$3	THREE WAY SWITCH + 48" AFF UON.
$4	FOUR WAY SWITCH + 48" AFF UON.
$	MOTOR RATED SWITCH
OS	OCCUPANCY SENSOR
P	OCCUPANCY SENSOR POWER PACK

RECEPTACLE SYMBOLS

- CONVENIENCE RECEPTACLE - DUPLEX AT + 18" AFF UON.
- GFCI CONVENIENCE RECEPTACLE - DUPLEX.
- RECEPTACLE DOUBLE DUPLEX AT + 18" AFF UON.
- SINGLE RECEPTACLE - NEMA 5-20R UON, AT + 18" AFF UON.
- SINGLE RECEPTACLE - NEMA L21 - 208 VOLT, THREE PHASE, 5 WIRE, AT + 18" AFF UON.
- FLOOR BOX WITH CONVENIENCE RECEPTACLE, TELEPHONE AND DATA OUTLET.
- FLUSH FLOOR BOX WITH SINGLE CONVENIENCE RECEPTACLE.
- WIRE RACEWAY, INSTALL AT + 36" AFF UON.

POWER DISTRIBUTION SYMBOLS

- PANELBOARD - SURFACE OR FLUSH MOUNTED.
- JUNCTION BOX - CEILING OR WALL MOUNTED, SIZE TO CODE, TAPE AND TAG WIRES. PROVIDE FLEX AND/OR RECEPTACLE AS REQUIRED TO CONNECT EQUIPMENT.
- DISTRIBUTION PANEL
- M — MOTOR
- 30 — COMBINATION MAGNETIC STARTER FUSED DISCONNECT SWITCH. RATING AS INDICATED.
- 60 — UNFUSED DISCONNECT SWITCH - RATING AS INDICATED.
- 100 — FUSED DISCONNECT SWITCH - SIZE FUSES PER MOTOR MANUFACTURER'S RECOMMENDATIONS. RATING AS INDICATED.
- II — MAGNETIC STARTER - NEMA SIZE INDICATED.
- T — TRANSFORMER - SEE SINGLE LINE FOR SIZE.
- GROUND ROD.

WIRING & CONDUIT RUN SYMBOLS

- CONDUIT - CONCEALED IN WALLS OR CEILING.
- CONDUIT - EXPOSED.
- CONDUIT - IN OR BELOW FLOOR: 3/4"MIN.
- #10, G — CONDUIT - HOME RUN TO PANEL, TERMINAL CABINET, ETC. RUNS MARKED WITH CROSSHATCHES INDICATE NUMBER OF #12 AWG WIRES. CROSSHATCH WITH SUBSCRIPT "G" INDICATES GREEN GROUND WIRE. SIZE CONDUIT ACCORDING TO SPECIFICATIONS AND APPLICABLE CODE. CROSSHATCHES WITH "#10" INDICATES WIRE SIZE OTHER THAN #12'S.
- FLEX CONDUIT WITH CONNECTION.
- CONDUIT - STUB UP.
- CONDUIT - STUB DOWN.
- E — CONDUIT EMERGENCY SYSTEM.
- CAPPED CONDUIT.
- CONDUIT CONTINUATION.

POWER DISTRIBUTION SINGLE LINE SYMBOLS

- CIRCUIT BREAKER.
- M — "PG&E" METER W/ CURRENT TRANSFORMER.
- TRANSFORMER.

IN-GRADE PULL BOXES

L	IN-GRADE PULL BOX IDENTIFIED WITH "L" HAS A LID LABELED "LIGHTING".
S	IN-GRADE PULL BOX IDENTIFIED WITH "S" HAS A LID LABELED "SIGNAL".
P	IN-GRADE PULL BOX IDENTIFIED WITH "P" HAS A LID LABELED "ELECTRICAL".

ABBREVIATIONS:

A	AMPERE
ABV	ABOVE
AF	AMP FRAME OR AMP FUSE
AFF	ABOVE FINISHED FLOOR
ARCH	ARCHITECTURAL
AS	AMP SWITCH
AT	AMP TRIP
ATS	AUTOMATIC TRANSFER SWITCH
BKR	BREAKER
BLDG	BUILDING
C	CONDUIT
CATV	CABLE TELEVISION
CB	CIRCUIT BREAKER
CD	CANDELAS
CKT	CIRCUIT
CL	CENTER LINE
CLG	CEILING
CO	CONDUIT ONLY
CTR	CENTER
(D)	DEMOLISH
DET	DETAIL
DIM	DIMENSION
DISTR	DISTRIBUTION
DWG	DRAWING
(E)	EXISTING
EM	EMERGENCY
EQPT	EQUIPMENT
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
(F)	FUTURE
FIN	FINISH
FL	FLOOR
G , GND	GROUND
HGT	HEIGHT
HP	HORSEPOWER
IC	INTERCOM
IDF	INTERMEDIATE DISTRIBUTION FRAME
JB	JUNCTION BOX
KAIC	KILOAMPERE INTERRUPTING CAPACITY
KV	KILOVOLT
KVA	KILOVOLT AMPERES
KW	KILOWATT
LTG	LIGHTING
MCM	THOUSAND CIRCULAR MILS
MDF	MAIN DISTRIBUTION FRAME
MECH	MECHANICAL
MH	MANHOLE
MTD	MOUNTED
MTG	MOUNTING
(N)	NEW
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NIEC	NOT IN ELECTRICAL CONTRACT
NO	NUMBER/ NORMALLY OPEN
NTS	NOT TO SCALE
O.C.	ON CENTER
P	POLE CIRCUIT BREAKER
PA	PUBLIC ADDRESS
PB	PULL BOX
PF	POWER FACTOR
PH	PHASE
PNL	PANEL
(R)	EXISTING TO BE RELOCATED
REQD	REQUIRED
REQT	REQUIREMENT(S)
RM	ROOM
RSC	RIGID STEEL CONDUIT
SHT	SHEET
SW	SWITCH
SWBD	SWITCHBOARD
TC	TERMINAL CABINET
TEL	TELEPHONE
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
V	VOLT
W	WATT
WP	WEATHERPROOF
XFMR	TRANSFORMER

1

GENERAL ANCHORAGE NOTES:

MEP COMPONENT ANCHORAGE NOTE: REVISED: FEBRUARY 14, 2020

ALL MECHANICAL, PLUMBING AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2019 CBC, SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTER 13, 26 AND 30.

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (e.g. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXPECT PLUGS FOR 110/220 VOLT RECEPTACLES HAVE A FLEXIBLE CABLE.
3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT US REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

A. COMPONENTS WEIGHTING LESS THAN 400 POUNDS AND HAVING A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.

B. COMPONENTS WEIGHTING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE:

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTIONS 13.3 AS DEFINED IN ASCE 7-16 SECTION 13.6.5, 13.6.6, 13.6.7, 13.6.8 AND 2019 CBC, SECTION 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G., OSHPD OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEM. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G. OSHPD OPM), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEM. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP☐ MD☐ PP☐ E☒ - OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

MP☐ MD☐ PP☐ E☐ - OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVED (OPM #) #________

DRAWING INDEX

SHEET NO.	SHEET TITLE
E0.1	ELECTRICAL SYMBOLS, ABBREVIATIONS, NOTES AND SCHEDULES
E1.0	ELECTRICAL CAMPUS OVERALL SITE PLAN
E2.1	ENLARGED BASEBALL AND SOFTBALL FIELD - ELECTRICAL NEW SITE PLAN
E3.1	ELECTRICAL FLOOR PLAN - DUGOUTS (SOFTBALL)
E3.2	ELECTRICAL FLOOR PLAN - DUGOUTS (BASEBALL)
E3.3	ELECTRICAL PLAN - BATTING CAGE (BASEBALL AND SOFTBALL)
E5.1	ELECTRICAL SINGLE LINE DIAGRAM
E7.1	ELECTRICAL DETAILS
E7.4	ELECTRICAL DETAILS
E7.5	ELECTRICAL DETAILS

1

THE CONTRACTOR SHALL BE RESPONSIBLE FOR SITE LOCATING ALL EXISTING UNDERGROUND SYSTEMS IN AREA OF NEW TRENCHING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ALL DAMAGED SYSTEMS TO OWNERS SATISFACTION. EXTREME CARE SHALL BE MAINTAINED DURING TRENCHING AS EXISTING SYSTEMS ARE KNOWN TO EXIST IN AREA. MODIFICATIONS TO EXISTING SYSTEMS MAY BE REQUIRED TO ACCOMMODATE NEW SYSTEM CONFIGURATION AND SHALL BE MADE BY THE CONTRACTOR WITHOUT EXTRA EXPENSE TO THE OWNER THE DRAWINGS AND SPECIFICATIONS ARE FOR THE ASSISTANCE AND GUIDANCE OF THE CONTRACTOR. EXACT LOCATIONS, DISTANCES AND ELEVATIONS WILL BE GOVERNED BY ACTUAL CONDITIONS. THE CONTRACTOR SHALL EXAMINE THE CONTRACT DOCUMENTS AND FIELD CONDITIONS TO DETERMINE EXACT ROUTING AND FINAL TERMINATIONS FOR ALL NEW WORK.

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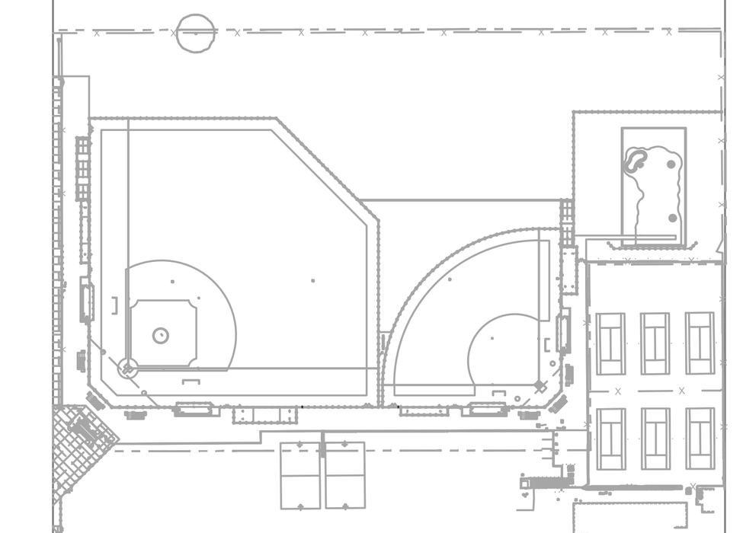
KEYMAP



SHEET TITLE

ELECTRICAL SYMBOLS, ABBREVIATIONS, NOTES AND SCHEDULE

PROJECT NAME

HIRAM JOHNSON HIGH SCHOOL GOLF PRACTICE FACILITY, VARSITY BASEBALL AND SOFTBALL FIELDS

PROJECT ADDRESS

6879 14TH AVENUE
SACRAMENTO, CA 95820

SUBMITTAL	DATE
DD 50% SUBMITTAL	04/15/22
100% DSA SUBMITTAL	05/27/22
DSA BACK CHECK	08/11/22
DSA ADDENDUM SUBMITTAL	09/16/22

NO.	REVISIONS	DATE
1	ADDENDUM	09/16/22

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DATE ISSUED: 09/16/2022	SCALE: NO SCALE
PROJ. NO.: 2203200	
SHEET NO.: E0.1 OF	

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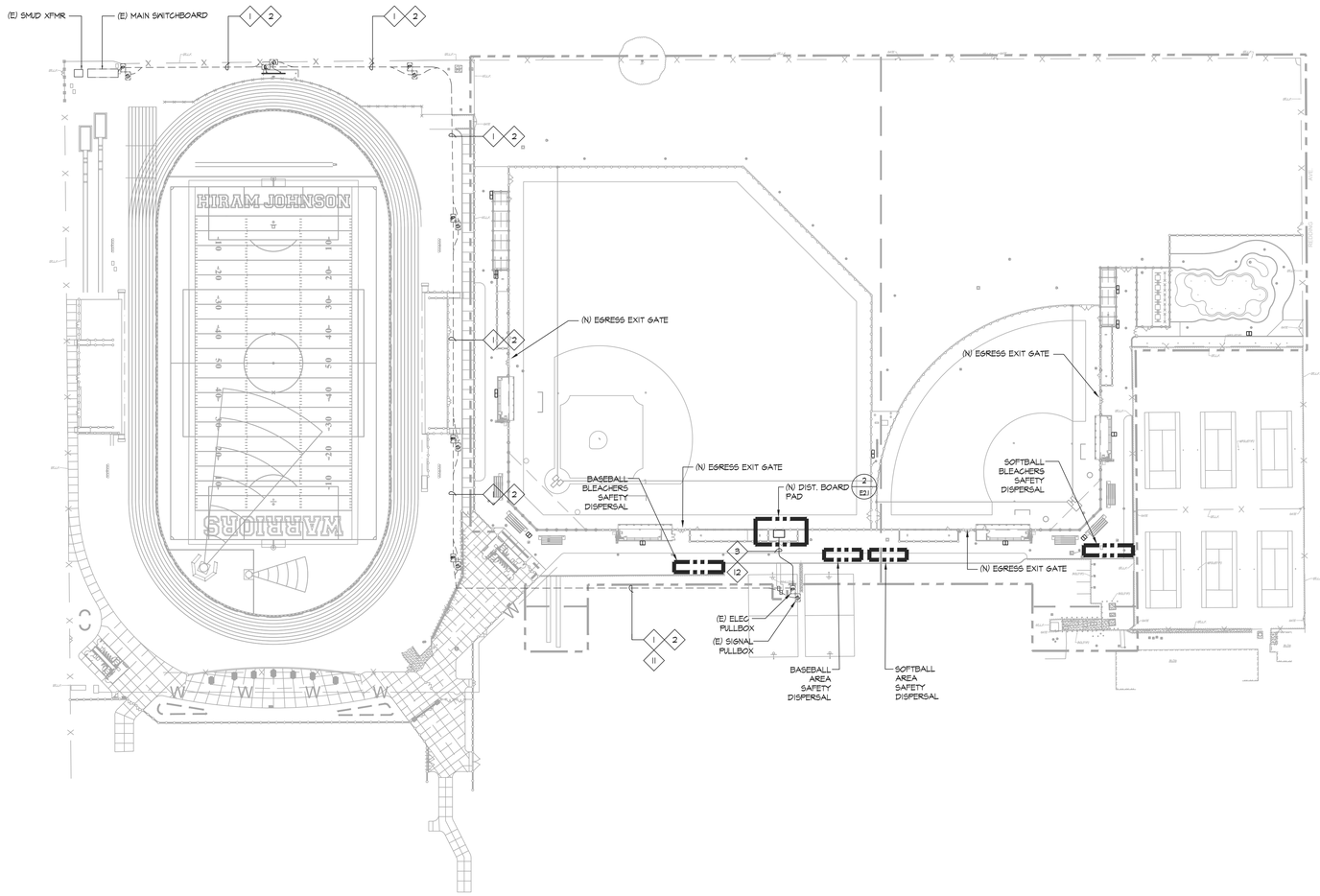
PLOT DATE: 09-15-22 PLOTTED BY: cnguyen



GENERAL NOTES:

1. CONTRACTOR SHALL COORDINATE UNDERGROUND REQUIREMENTS WITH ALL OTHER TRADES TO AVOID CONFLICT.
2. CONTRACTOR TO SITE SURVEY EXISTING CONDITIONS AND LOCATIONS OF EXISTING UNDERGROUND SYSTEMS, WHERE (N) TRENCHWORK OCCURS PRIOR TO BIDDING. CONTRACTOR SHALL TAKE PROPER PRECAUTIONS TO ENSURE (E) UNDERGROUND SYSTEMS/CONDUIT/PIPES ARE NOT DAMAGED DURING INSTALLATION. CONTRACTOR IS RESPONSIBLE FOR ANY REPAIRS REQUIRED IN THE EVENT THE (E) UNDERGROUND SYSTEMS ARE DAMAGED AS A RESULT OF THE (N) ELECTRICAL TRENCHWORK.
3. SEE SINGLE LINE DIAGRAM FOR WIRE SIZES AND CONDUIT REQUIREMENTS.
4. CONTRACTOR TO COORDINATE SITE PLAN TO COMBINE ALL UNDERGROUND CONDUIT IN COMMON TRENCH AS NECESSARY.
5. ALL EMPTY CONDUIT SHALL BE PROVIDED WITH NYLON PULL CORD AS NOTED IN THE SPECIFICATIONS.
6. ALL ELECTRICAL WORK SHALL BE INSTALLED PER 2019 CEC.
7. PRIOR TO ALL (N) TRENCHES, CONTRACTOR TO USA ALL (E) ELECTRICAL CONDUITS AND OTHER UTILITIES TO FAMILIARIZE THEMSELVES WITH THE FIELD CONDITIONS AND ADJUST (N) TRENCHES ACCORDINGLY.
8. IN-GRADE PULL BOX IDENTIFIED WITH 'P' SHALL HAVE LID LABELED 'ELECTRICAL'.
9. IN-GRADE PULL BOX IDENTIFIED WITH 'S' SHALL HAVE LID LABELED 'SIGNAL'.
10. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY SAW CUTTING AND REMOVAL OF EXISTING SURFACES TO FACILITATE UNDERGROUND SYSTEMS. THE CONTRACTOR SHALL PATCH AND REPAIR ALL DAMAGED AND CUT SURFACES TO MATCH ADJACENT.
11. CONTRACTOR SHALL COORDINATE FINAL LOCATION OF ALL IN-GRADE PULL BOX WITH LANDSCAPE ARCHITECT. THE INTENT IS TO VOID RELOCATING PULL BOXES.
12. ALL POWER SYSTEM CONDUITS STUB IN "ELECTRICAL" PULL BOX AND ALL COMMUNICATION SYSTEMS CONDUIT IN "SIGNAL" BOXES AS REQUIRED BY CODE.

CONDUIT SCHEDULE:

POWER SYSTEMS

- 1 — (E) (6) 3"GO - SPARE
- 2 — (E) (4) 4"GO - SPARE
- 3 — (N) 4"G - POWER

COMMUNICATION SYSTEM

- II — (E) 2"G - DATA; (E) (2) 2"G - SPARE
- I2 — (N) 2"G - DATA

1 / E1.0 **ELECTRICAL CAMPUS OVERALL SITE PLAN**

SCALE: 1" = 60'-0"

NORTH

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www.VerdeDesignInc.com

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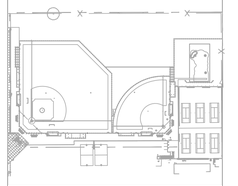
REGISTERED PROFESSIONAL ENGINEER — CHRISTOPHER S. FERRARA — E16890 Exp. 06/30/23 — ELECTRICAL — STATE OF CALIFORNIA

CONSULTANT

American Consulting Engineers Electrical, Inc.
1590 The Alameda Suite 200, San Jose, CA 95126, 408/236-2312, Fax: 408/236-2316
JOB #EK22049

KEYMAP



SHEET TITLE

ELECTRICAL CAMPUS OVERALL SITE PLAN

PROJECT NAME

HIRAM JOHNSON HIGH SCHOOL
GOLF PRACTICE FACILITY, VARSITY BASEBALL AND SOFTBALL FIELDS

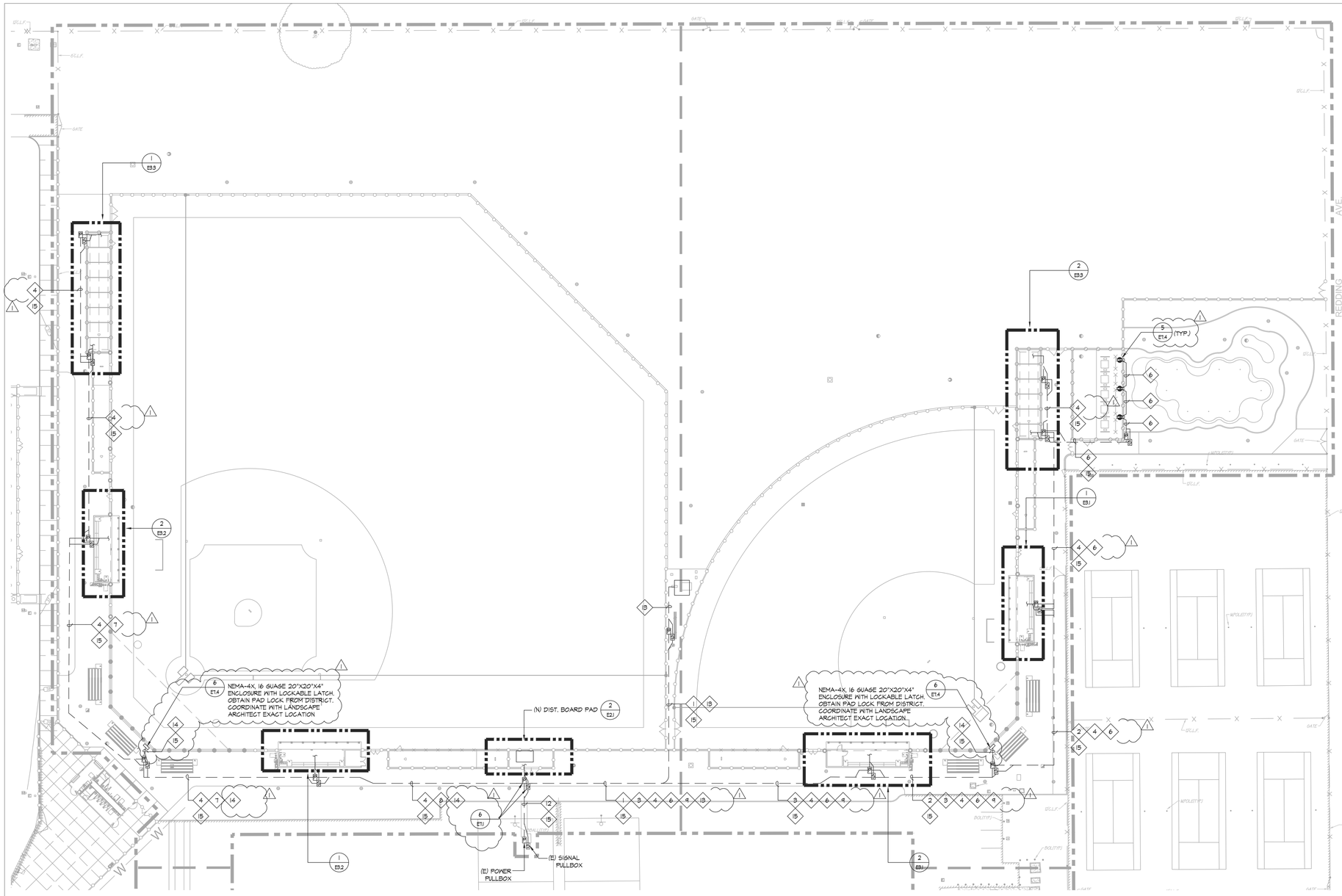
PROJECT ADDRESS

6879 14TH AVENUE
SACRAMENTO, CA 95820

SUBMITTAL	DATE
DD 50% SUBMITTAL	04/15/22
100% DSA SUBMITTAL	05/27/22
DSA BACK CHECK	08/11/22
DSA ADDENDUM SUBMITTAL	09/16/22

NO.	REVISIONS	DATE
1	ADDENDUM	09/16/22

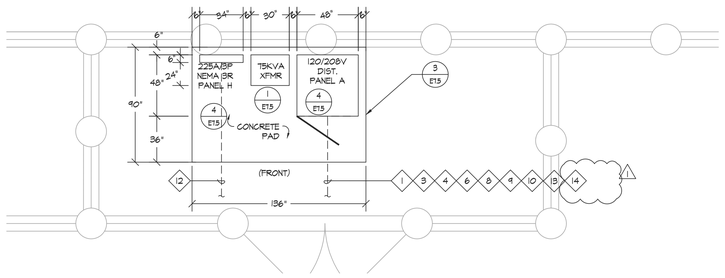
DRAWN BY	CHECKED BY
CN	AA/SF
DATE ISSUED: 09/16/2022	SCALE: AS NOTED
PROJ. NO.: 2203200	
SHEET NO.: E1.0 OF	



1 ENLARGED BASEBALL AND SOFTBALL FIELD - ELECTRICAL NEW SITE PLAN

E2.1 SCALE: 1" = 30'-0"

NORTH



2 DISTRIBUTION PANEL CONDUIT ROUTING

E2.1 SCALE: 1/4" = 1' - 0"

GENERAL NOTES:

1. CONTRACTOR SHALL COORDINATE UNDERGROUND REQUIREMENTS WITH ALL OTHER TRADES TO AVOID CONFLICT.
2. CONTRACTOR TO SITE SURVEY EXISTING CONDITIONS AND LOCATIONS OF EXISTING UNDERGROUND SYSTEMS, WHERE (N) TRENCHWORK OCCURS PRIOR TO BIDDING. CONTRACTOR SHALL TAKE PROPER PRECAUTIONS TO ENSURE (E) UNDERGROUND SYSTEMS/CONDUIT/PIPES ARE NOT DAMAGED DURING INSTALLATION. CONTRACTOR IS RESPONSIBLE FOR ANY REPAIRS REQUIRED IN THE EVENT THE (E) UNDERGROUND SYSTEMS ARE DAMAGED AS A RESULT OF THE (N) ELECTRICAL TRENCHWORK.
3. SEE SINGLE LINE DIAGRAM FOR WIRE SIZES AND CONDUIT REQUIREMENTS.
4. CONTRACTOR TO COORDINATE SITE PLAN TO COMBINE ALL UNDERGROUND CONDUIT IN COMMON TRENCH AS NECESSARY.
5. ALL EMPTY CONDUIT SHALL BE PROVIDED WITH NYLON PULL CORD AS NOTED IN THE SPECIFICATIONS.
6. ALL ELECTRICAL WORK SHALL BE INSTALLED PER 2019 CEC.
7. PRIOR TO ALL (N) TRENCHES, CONTRACTOR TO USE ALL (E) ELECTRICAL CONDUITS AND OTHER UTILITIES TO FAMILIARIZE THEMSELVES WITH THE FIELD CONDITIONS AND ADJUST (N) TRENCHES ACCORDINGLY.
8. IN-GRADE PULL BOX IDENTIFIED WITH 'P' SHALL HAVE LID LABELED 'ELECTRICAL'.
9. IN-GRADE PULL BOX IDENTIFIED WITH 'S' SHALL HAVE LID LABELED 'SIGNAL'.
10. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY SAW CUTTING AND REMOVAL OF EXISTING SURFACES TO FACILITATE UNDERGROUND SYSTEMS. THE CONTRACTOR SHALL PATCH AND REPAIR ALL DAMAGED AND CUT SURFACES TO MATCH ADJACENT.
11. CONTRACTOR SHALL COORDINATE FINAL LOCATION OF ALL IN-GRADE PULL BOX WITH LANDSCAPE ARCHITECT. THE INTENT IS TO VOID RELOCATING PULL BOXES.
12. ALL POWER SYSTEM CONDUITS STUB IN "ELECTRICAL" PULL BOX AND ALL COMMUNICATION SYSTEMS CONDUIT IN "SIGNAL" BOXES AS REQUIRED BY CODE.
13. ALL PULL BOXES SHALL BE TRAFFIC RATED B2436 UNLESS OTHERWISE NOTED. SEE DETAIL FOR SPECIFICS.
14. COORDINATE PULL BOX ORIENTATION WITH LANDSCAPE ARCHITECT TO BE SQUARE WITH SURFACE CURB, CONCRETE WALKWAY, DRAINAGE, ETC.
15. IN-GRADE PULL BOX IDENTIFIED WITH 'L' SHALL HAVE LID LABELED 'LIGHTING'.

CONDUIT SCHEDULE:

POWER SYSTEMS

1. (N) (2) 2"G - POWER - SCOREBOARD
2. (N) 2"G - POWER - SOFTBALL DUGOUT
3. (N) (2) 2"G - POWER - SOFTBALL DUGOUT
4. (N) 2"G - POWER - BATTING CAGE
5. NOT USED
6. (N) 2"G - POWER - GOLF AREA
7. (N) 2"G - POWER - BASEBALL DUGOUT
8. (N) (2) 2"G - POWER - BASEBALL DUGOUT
9. (N) 2"G - POWER - SOFTBALL BACKSTOP
10. (N) (2) 2"G - POWER - BATTING CAGE
11. NOT USED
12. (N) 4"G - POWER
13. (N) 2"G - IRRIGATION PUMP
14. (N) 2"G - BASEBALL BACKSTOP

COMMUNICATION SYSTEMS

15. (N) 2"G - SIGNAL

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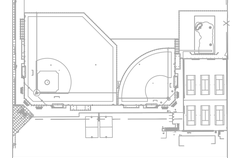

SHEET TITLE

ENLARGED BASEBALL AND SOFTBALL FIELD ELECTRICAL NEW SITE PLAN

PROJECT NAME

HIRAM JOHNSON HIGH SCHOOL
GOLF PRACTICE FACILITY, VARSITY BASEBALL AND SOFTBALL FIELDS

PROJECT ADDRESS

6879 14TH AVENUE
SACRAMENTO, CA 95820

SUBMITTAL	DATE
DD 50% SUBMITTAL	04/15/22
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NO.	REVISIONS	DATE
1	ADDENDUM	09/16/22

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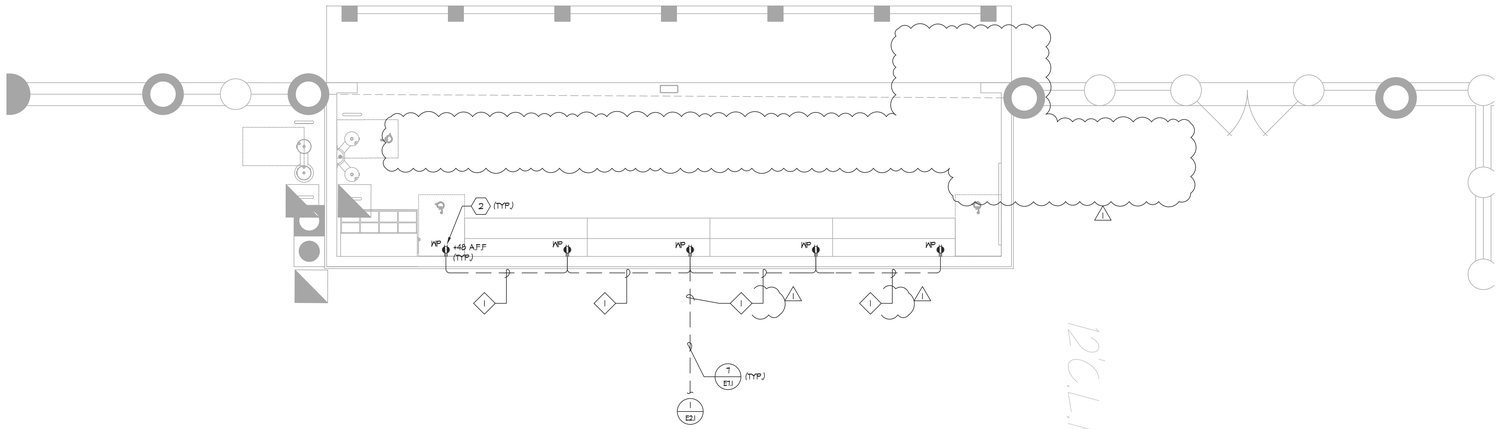
CN	AA/SF
DATE ISSUED	SCALE
09/16/2022	AS NOTED

PROJ. NO. 2203200

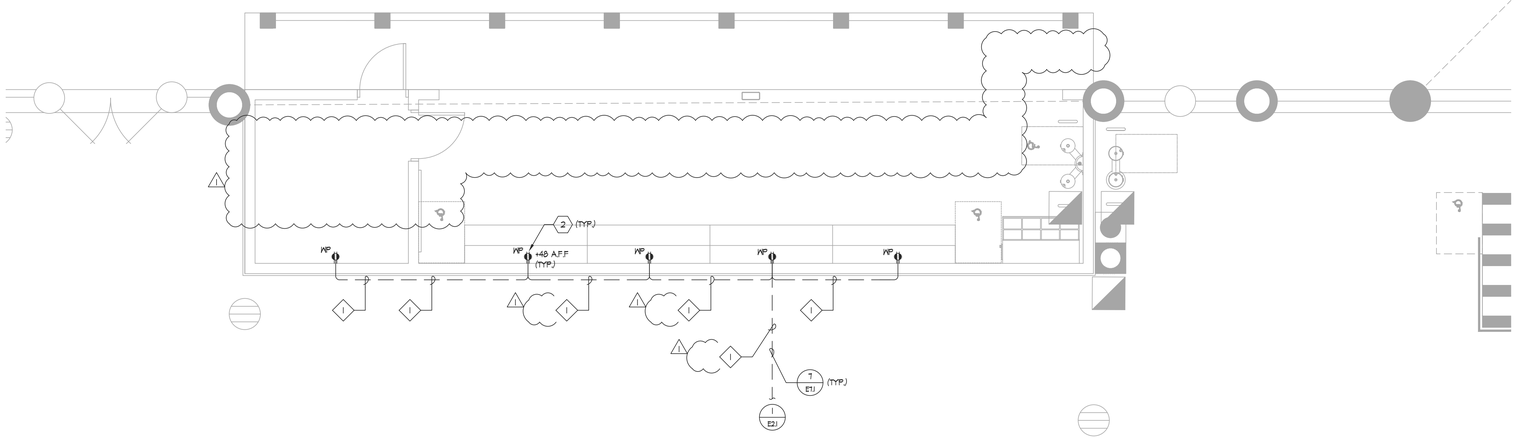
SHEET NO. E2.1 OF



1 / E3.1 **ELECTRICAL FLOOR PLAN - FIRST BASE DUGOUT (SOFTBALL)**

SCALE: 1/4" = 1'-0"

NORTH



2 / E3.1 **ELECTRICAL FLOOR PLAN - THIRD BASE DUGOUT (SOFTBALL)**

SCALE: 1/4" = 1'-0"

NORTH

GENERAL NOTES:

1. CONTRACTOR SHALL COORDINATE UNDERGROUND REQUIREMENTS WITH ALL OTHER TRADES TO AVOID CONFLICT.
2. CONTRACTOR TO SITE SURVEY EXISTING CONDITIONS AND LOCATIONS OF EXISTING UNDERGROUND SYSTEMS, WHERE (N) TRENCHWORK OCCURS PRIOR TO BIDDING. CONTRACTOR SHALL TAKE PROPER PRECAUTIONS TO ENSURE (E) UNDERGROUND SYSTEMS/CONDUIT/PIPES ARE NOT DAMAGED DURING INSTALLATION. CONTRACTOR IS RESPONSIBLE FOR ANY REPAIRS REQUIRED IN THE EVENT THE (E) UNDERGROUND SYSTEMS ARE DAMAGED AS A RESULT OF THE (N) ELECTRICAL TRENCHWORK.
3. LIGHTING AND RECEPTACLE CONDUIT SHALL BE IN SAME TRENCH.
4. SEE SINGLE LINE DIAGRAM FOR WIRE SIZES AND CONDUIT REQUIREMENTS.
5. CONTRACTOR TO COORDINATE SITE PLAN TO COMBINE ALL UNDERGROUND CONDUIT IN COMMON TRENCH AS NECESSARY.
6. ALL EMPTY CONDUIT SHALL BE PROVIDED WITH NYLON PULL CORD AS NOTED IN THE SPECIFICATIONS.
7. SEE DETAIL 1/E1.1 AND 7/E1.1 FOR TRENCHING REQUIREMENTS.
8. CONTRACTOR TO PROVIDE ALL MATERIALS, EQUIPMENT, SPORT FIELD LIGHTS, CONTROL CABINETS, WIRING, CONDUITS, ETC TO SUCCESSFULLY INSTALL NEW SPORTFIELD LIGHTING.
9. ALL ELECTRICAL WORK SHALL BE INSTALLED PER 2019 CEC.
10. ALL CONDUITS FOR OUTLETS AND DATA SHALL BE CONCEALED IN WALL. CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH DUGOUT CONTRACTOR IN ADVANCE TO ENSURE THEY ARE AWARE OF CONDUITS TO BE CONCEALED IN CMU WALL.

SHEET NOTES:

1. 1 NOT USED.
2. PROVIDE AND INSTALL WEATHERPROOF, GFCI, EXTERIOR OUTLET FOR DUGOUT. OUTLET SHALL BE PROVIDED WITH RAIN-TIGHT "WHILE-IN-USE" LOCKABLE COVER PER C.E.C. REQUIREMENTS. OUTLET SHALL BE INSTALLED FLUSH IN CMU WALL. CONTRACTOR SHALL COORDINATE EXACT LOCATION WITH ARCHITECT.
3. 1 NOT USED.

CONDUIT SCHEDULE:

1. (N) (1) 1 1/2"C - RECEPTACLE
2. NOT USED

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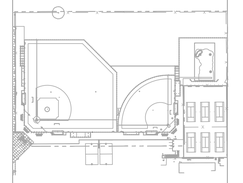

SHEET TITLE

ELECTRICAL FLOOR PLAN - DUGOUTS (SOFTBALL)

PROJECT NAME

HIRAM JOHNSON HIGH SCHOOL
GOLF PRACTICE FACILITY, VARSITY BASEBALL AND SOFTBALL FIELDS

PROJECT ADDRESS

6879 14TH AVENUE
SACRAMENTO, CA 95820

SUBMITTAL	DATE
DD 50% SUBMITTAL	04/15/22
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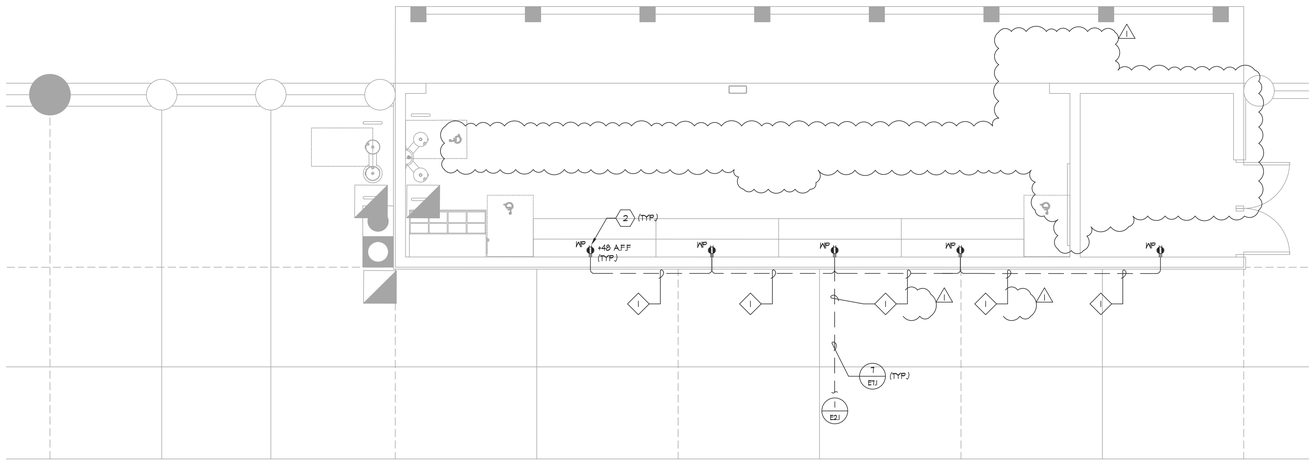
PROJ. NO. 2203200

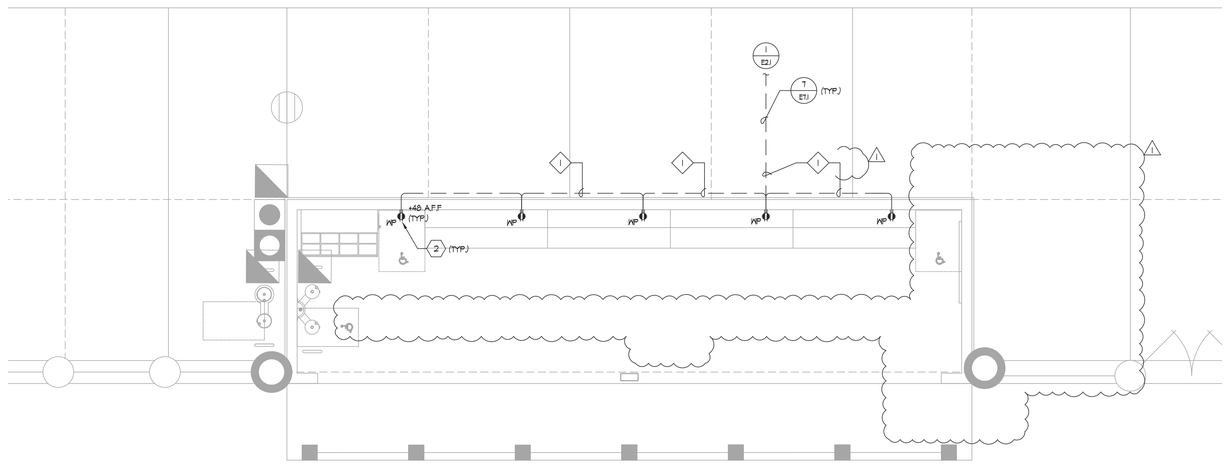
SHEET NO. E3.1 OF



1 / E3.2 **ELECTRICAL FLOOR PLAN - FIRST BASE DUGOUT (BASEBALL)**

SCALE: 1/4" = 1'-0"

NORTH



2 / E3.2 **ELECTRICAL FLOOR PLAN - THIRD BASE DUGOUT (BASEBALL)**

SCALE: 1/4" = 1'-0"

NORTH

GENERAL NOTES:

1. CONTRACTOR SHALL COORDINATE UNDERGROUND REQUIREMENTS WITH ALL OTHER TRADES TO AVOID CONFLICT.
2. CONTRACTOR TO SITE SURVEY EXISTING CONDITIONS AND LOCATIONS OF EXISTING UNDERGROUND SYSTEMS, WHERE (N) TRENCHWORK OCCURS PRIOR TO BIDDING. CONTRACTOR SHALL TAKE PROPER PRECAUTIONS TO ENSURE (E) UNDERGROUND SYSTEMS/CONDUIT/PIPES ARE NOT DAMAGED DURING INSTALLATION. CONTRACTOR IS RESPONSIBLE FOR ANY REPAIRS REQUIRED IN THE EVENT THE (E) UNDERGROUND SYSTEMS ARE DAMAGED AS A RESULT OF THE (N) ELECTRICAL TRENCHWORK.
3. LIGHTING AND RECEPTACLE CONDUIT SHALL BE IN SAME TRENCH.
4. SEE SINGLE LINE DIAGRAM FOR WIRE SIZES AND CONDUIT REQUIREMENTS.
5. CONTRACTOR TO COORDINATE SITE PLAN TO COMBINE ALL UNDERGROUND CONDUIT IN COMMON TRENCH AS NECESSARY.
6. ALL EMPTY CONDUIT SHALL BE PROVIDED WITH NYLON PULL CORD AS NOTED IN THE SPECIFICATIONS.
7. SEE DETAIL 1/ET.1 AND 7/ET.1 FOR TRENCHING REQUIREMENTS.
8. CONTRACTOR TO PROVIDE ALL MATERIALS, EQUIPMENT, SPORT FIELD LIGHTS, CONTROL CABINETS, WIRING, CONDUITS, ETC TO SUCCESSFULLY INSTALL NEW SPORTFIELD LIGHTING.
9. ALL ELECTRICAL WORK SHALL BE INSTALLED PER 2019 CEC.
10. ALL CONDUITS FOR OUTLETS AND DATA SHALL BE CONCEALED IN WALL. CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH DUGOUT CONTRACTOR IN ADVANCE TO ENSURE THEY ARE AWARE OF CONDUITS TO BE CONCEALED IN CMU WALL.

SHEET NOTES:

1. NOT USED.
2. PROVIDE AND INSTALL WEATHERPROOF, GFCI, EXTERIOR OUTLET FOR DUGOUT. OUTLET SHALL BE PROVIDED WITH RAIN-TIGHT "WHILE-IN-USE" LOCKABLE COVER PER C.E.C REQUIREMENTS. OUTLET SHALL BE INSTALLE FLUSH IN CMU WALL. CONTRACTOR SHALL COORDINATE EXACT LOCATION WITH ARCHITECT.
3. NOT USED.

CONDUIT SCHEDULE:

1. (N) (1) ½"C - RECEPTACLE
2. NOT USED

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CONSULTANT

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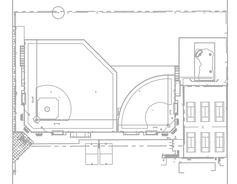

SHEET TITLE

ELECTRICAL FLOOR PLAN - DUGOUTS (BASEBALL)

PROJECT NAME

HIRAM JOHNSON HIGH SCHOOL
GOLF PRACTICE FACILITY, VARSITY BASEBALL AND SOFTBALL FIELDS

PROJECT ADDRESS

6879 14TH AVENUE
SACRAMENTO, CA 95820

SUBMITTAL	DATE
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PROJ. NO.	
2203200	
SHEET NO.	
E3.2	OF

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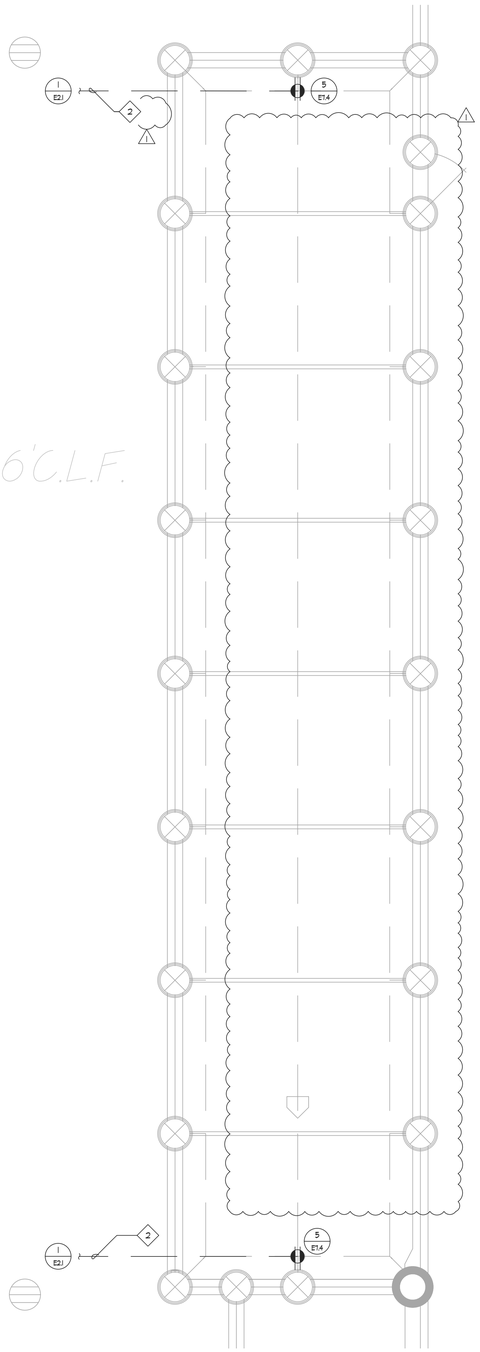
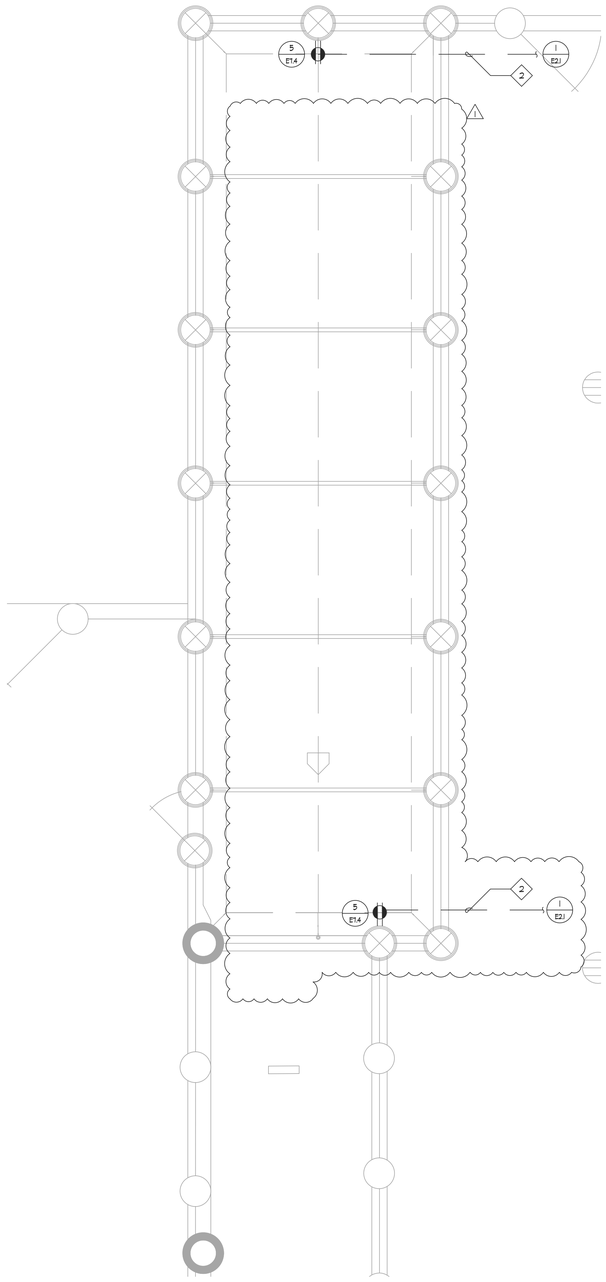
PLOT DATE: 09-15-22 PLOTTED BY: cnguyen



1 E3.3 **ENLARGED BATTING CAGE - ELECTRICAL SITE PLAN**

SCALE: 1/4" = 1' - 0"



2 E3.3 **ENLARGED BATTING CAGE - ELECTRICAL SITE PLAN**

SCALE: 1/4" = 1' - 0"

GENERAL NOTES:

1. CONTRACTOR SHALL COORDINATE UNDERGROUND REQUIREMENTS WITH ALL OTHER TRADES TO AVOID CONFLICT.
2. CONTRACTOR TO SITE SURVEY EXISTING CONDITIONS AND LOCATIONS OF EXISTING UNDERGROUND SYSTEMS, WHERE (N) TRENCHWORK OCCURS PRIOR TO BIDDING. CONTRACTOR SHALL TAKE PROPER PRECAUTIONS TO ENSURE (E) UNDERGROUND SYSTEMS/CONDUIT/PIPES ARE NOT DAMAGED DURING INSTALLATION. CONTRACTOR IS RESPONSIBLE FOR ANY REPAIRS REQUIRED IN THE EVENT THE (E) UNDERGROUND SYSTEMS ARE DAMAGED AS A RESULT OF THE (N) ELECTRICAL TRENCHWORK.
3. LIGHTING AND RECEPTACLE CONDUIT SHALL BE IN SAME TRENCH.
4. SEE SINGLE LINE DIAGRAM FOR WIRE SIZES AND CONDUIT REQUIREMENTS.
5. CONTRACTOR TO COORDINATE SITE PLAN TO COMBINE ALL UNDERGROUND CONDUIT IN COMMON TRENCH AS NECESSARY.
6. ALL EMPTY CONDUIT SHALL BE PROVIDED WITH NYLON PULL CORD AS NOTED IN THE SPECIFICATIONS.
7. SEE DETAIL 7/ET.1 FOR TRENCHING REQUIREMENTS.
8. CONTRACTOR TO PROVIDE ALL MATERIALS, EQUIPMENT, SPORT FIELD LIGHTS, CONTROL CABINETS, WIRING, CONDUITS, ETC TO SUCCESSFULLY INSTALL NEW SPORTFIELD LIGHTING.
9. ALL ELECTRICAL WORK SHALL BE INSTALLED PER 2019 CEC.

CONDUIT SCHEDULE:

1 NOT USED

2 (N) 1 1/4"G - RECEPTACLE - BATTING CAGE

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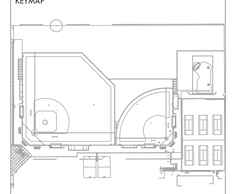

SHEET TITLE

ELECTRICAL PLAN - BATTING CAGE (BASEBALL & SOFTBALL)

PROJECT NAME

HIRAM JOHNSON HIGH SCHOOL
GOLF PRACTICE FACILITY, VARSITY BASEBALL AND SOFTBALL FIELDS

PROJECT ADDRESS

6879 14TH AVENUE
SACRAMENTO, CA 95820

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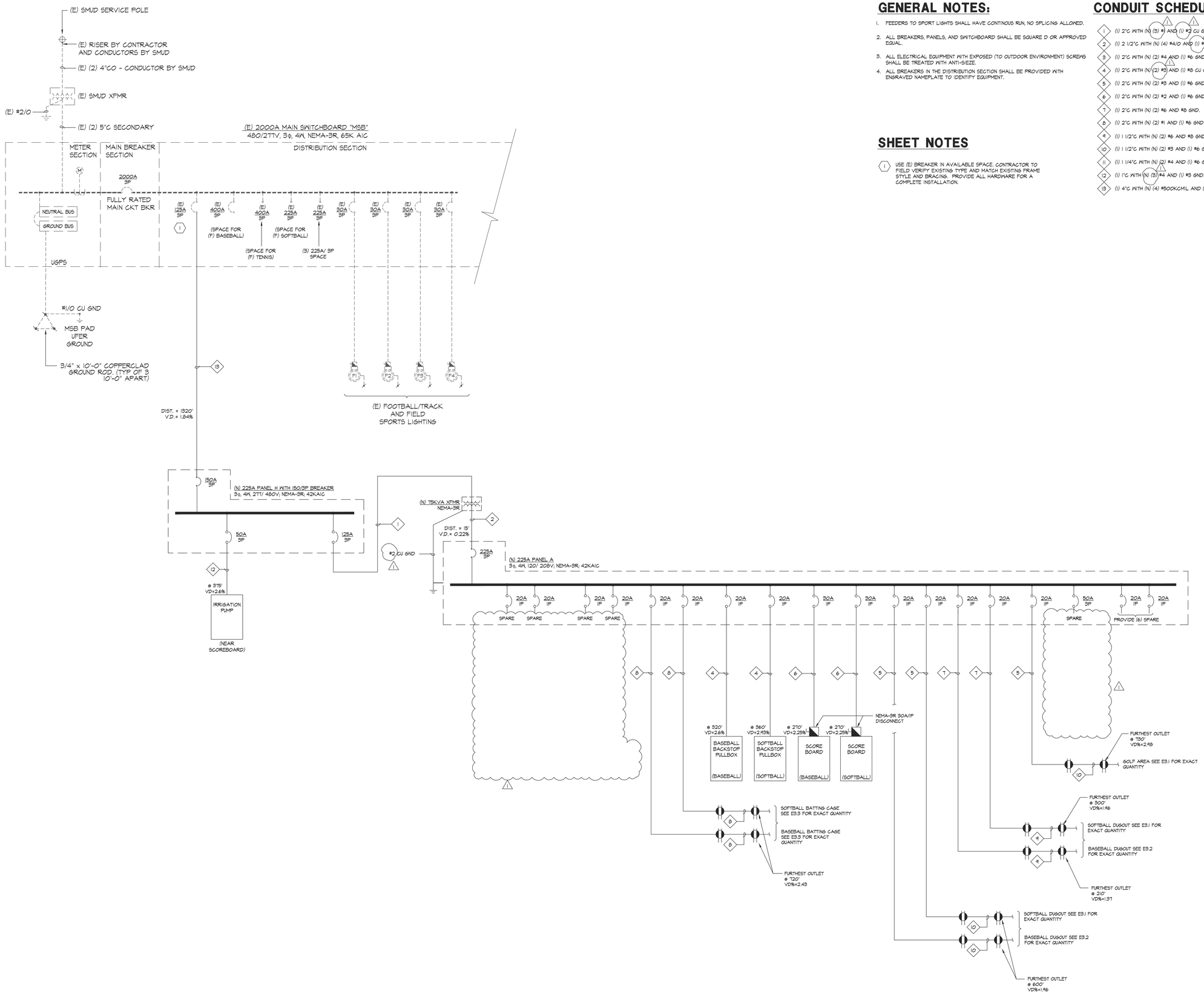
SHEET NO. E3.3 OF



GENERAL NOTES:

1. FEEDERS TO SPORT LIGHTS SHALL HAVE CONTINOUS RUN, NO SPLICING ALLOWED.
2. ALL BREAKERS, PANELS, AND SWITCHBOARD SHALL BE SQUARE D OR APPROVED EQUAL.
3. ALL ELECTRICAL EQUIPMENT WITH EXPOSED (TO OUTDOOR ENVIRONMENT) SCREWS SHALL BE TREATED WITH ANTI-SIEZE.
4. ALL BREAKERS IN THE DISTRIBUTION SECTION SHALL BE PROVIDED WITH ENGRAVED NAMEPLATE TO IDENTIFY EQUIPMENT.

SHEET NOTES

1. USE (E) BREAKER IN AVAILABLE SPACE. CONTRACTOR TO FIELD VERIFY EXISTING TYPE AND MATCH EXISTING FRAME STYLE AND BRACING. PROVIDE ALL HARDWARE FOR A COMPLETE INSTALLATION.

CONDUIT SCHEDULE

1. (1) 2"G WITH (N) (3) #1 AND (1) #2 CU GND.
2. (1) 2 1/2"G WITH (N) (4) #4/0 AND (1) #2 GND.
3. (1) 2"G WITH (N) (2) #4 AND (1) #6 GND.
4. (1) 2"G WITH (N) (2) #3 AND (1) #3 CU GND.
5. (1) 2"G WITH (N) (2) #3 AND (1) #6 GND.
6. (1) 2"G WITH (N) (2) #2 AND (1) #6 GND.
7. (1) 2"G WITH (N) (2) #6 AND #8 GND.
8. (1) 2"G WITH (N) (2) #1 AND (1) #6 GND.
9. (1) 1 1/2"G WITH (N) (2) #6 AND #8 GND.
10. (1) 1 1/2"G WITH (N) (2) #3 AND (1) #6 GND.
11. (1) 1 1/4"G WITH (N) (2) #4 AND (1) #6 GND.
12. (1) 1"G WITH (N) (3) #4 AND (1) #3 GND.
13. (1) 4"G WITH (N) (4) #500KCMIL AND (1) #1/0 CU GND.

1 E5.1 **ELECTRICAL SINGLE LINE DIAGRAM - SOFTBALL AND POOL**

NOT TO SCALE

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LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
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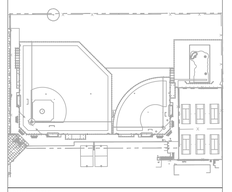
STAMP

REGISTERED PROFESSIONAL ENGINEER CHRISTOPHER S. FERRARA E16890 Exp. 06/30/23 ELECTRICAL STATE OF CALIFORNIA

CONSULTANT

American Consulting Engineers Electrical, Inc.
1590 The Alameda Suite 200
San Jose, CA 95126
408/236-2312
Fax: 408/236-2316
JOB #EK22049

KEYMAP



SHEET TITLE

ELECTRICAL SINGLE LINE DIAGRAM

PROJECT NAME

HIRAM JOHNSON HIGH SCHOOL GOLF PRACTICE FACILITY, VARSITY BASEBALL AND SOFTBALL FIELDS

PROJECT ADDRESS

6879 14TH AVENUE SACRAMENTO, CA 95820

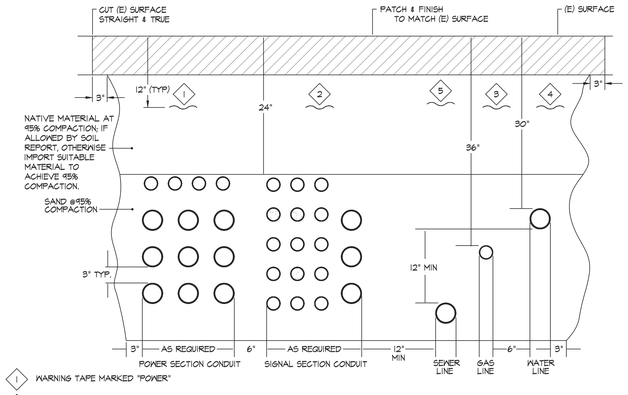
SUBMITTAL	DATE
DD 50% SUBMITTAL	04/15/22
100% DSA SUBMITTAL	05/27/22
DSA BACK CHECK	08/11/22
DSA ADDENDUM SUBMITTAL	09/16/22

NO.	REVISIONS	DATE
1	ADDENDUM	09/16/22

DRAWN BY	CHECKED BY
CN	AA/SF
DATE ISSUED	SCALE
09/16/2022	AS NOTED
PROJ. NO.	
2203200	
SHEET NO.	
E5.1 OF	

ELECTRICAL SINGLE LINE DIAGRAM

DRAWING NAME: C:\Users\cnguyen\ACEE\Communication site - Documents\Projects\Year 2022\EK22049_Softball Baseball @ Hiram JHS\E5\1_Single Line Diagram.dwg
PLOT DATE: 09-15-22 PLOTTED BY: cnguyen



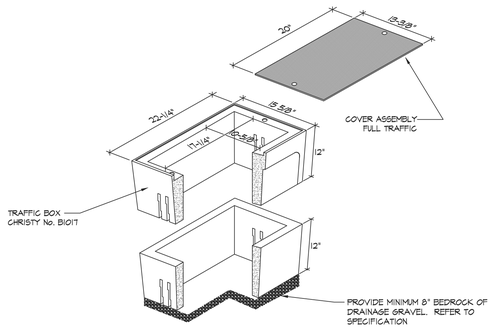
1. WARNING TAPE MARKED "POWER"
2. WARNING TAPE MARKED "SIGNAL"
3. WARNING TAPE MARKED "GAS"
4. WARNING TAPE MARKED "WATER"
5. WARNING TAPE MARKED "SEWER"

NOTES:

1. ALL ELECTRICAL TRENCH WORK SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
2. MINIMUM SPACING BETWEEN CONDUITS IS 3".
3. SEE SITE/FLOOR PLANS AND SPECIFICATIONS FOR CONDUIT REQUIREMENTS.
4. COORDINATE WITH LANDSCAPE ARCHITECT TRENCH DETAILS WITHIN CHEMICALLY TREATED AREAS.

1 TYPICAL JOINT TRENCH & DUCT BANK DETAIL

E7.1 NOT TO SCALE

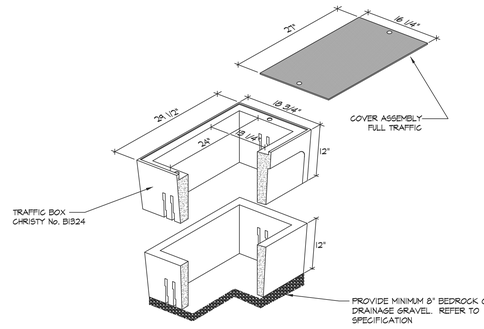


NOTES:

1. HIGH DENSITY REINFORCED CONCRETE BOX WITH NON-SETTING SHOULDERS POSITIONED TO MAINTAIN GRADE AND FACILITATE BACK FILLING. APPROXIMATE DIMENSIONS SHOWN.
2. ALL CONDUITS SHALL ENTER FROM SIDES OF PULL BOX. CONTRACTOR SHALL PROVIDE PULL BOX EXTENSION AS REQUIRED. NO CONDUITS SHALL BE ALLOWED FROM THE BOTTOM OF THE PULL BOX.
3. CONTRACTOR SHALL STACK CONDUITS AS REQUIRED TO MEET THE NEC CODE REQUIREMENTS.
4. PROVIDE BELL ENDS ON ALL CONDUIT.
5. ALL PENETRATIONS INTO BOXES SHALL BE SEALED WITH GROUT.
6. PROVIDE 4" DRAIN HOLE WITH MINIMUM 8" CRUSHED ROCK BEDDING AT BOTTOM OF BOX FOR DRAINAGE.

2 B1017 ELECTRICAL VAULT

E7.1 NOT TO SCALE (FULL TRAFFIC COVER)

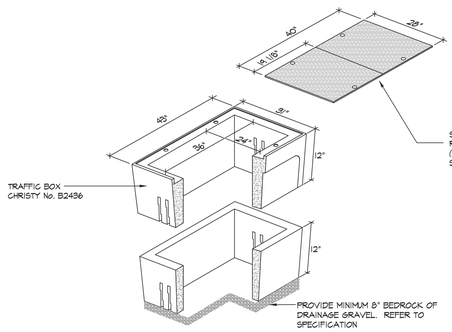


NOTES:

1. HIGH DENSITY REINFORCED CONCRETE BOX WITH NON-SETTING SHOULDERS POSITIONED TO MAINTAIN GRADE AND FACILITATE BACK FILLING. APPROXIMATE DIMENSIONS SHOWN.
2. ALL CONDUITS SHALL ENTER FROM SIDES OF PULL BOX. CONTRACTOR SHALL PROVIDE PULL BOX EXTENSION AS REQUIRED. NO CONDUITS SHALL BE ALLOWED FROM THE BOTTOM OF THE PULL BOX.
3. CONTRACTOR SHALL STACK CONDUITS AS REQUIRED TO MEET THE NEC CODE REQUIREMENTS.
4. PROVIDE BELL ENDS ON ALL CONDUIT.
5. ALL PENETRATIONS INTO BOXES SHALL BE SEALED WITH GROUT.
6. PROVIDE 4" DRAIN HOLE WITH MINIMUM 8" CRUSHED ROCK BEDDING AT BOTTOM OF BOX FOR DRAINAGE.

3 B1324 ELECTRICAL VAULT

E7.1 NOT TO SCALE (FULL TRAFFIC COVER)

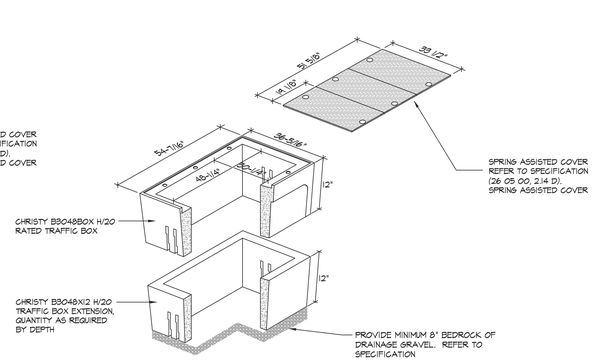


NOTES:

1. HIGH DENSITY REINFORCED CONCRETE BOX WITH NON-SETTING SHOULDERS POSITIONED TO MAINTAIN GRADE AND FACILITATE BACK FILLING. APPROXIMATE DIMENSIONS SHOWN.
2. ALL CONDUITS SHALL ENTER FROM SIDES OF PULL BOX. CONTRACTOR SHALL PROVIDE PULL BOX EXTENSION AS REQUIRED. NO CONDUITS SHALL BE ALLOWED FROM THE BOTTOM OF THE PULL BOX.
3. CONTRACTOR SHALL STACK CONDUITS AS REQUIRED TO MEET THE NEC CODE REQUIREMENTS.
4. PROVIDE BELL ENDS ON ALL CONDUIT.
5. ALL PENETRATIONS INTO BOXES SHALL BE SEALED WITH GROUT.
6. PROVIDE 4" DRAIN HOLE WITH MINIMUM 8" CRUSHED ROCK BEDDING AT BOTTOM OF BOX FOR DRAINAGE.

4 B2436 ELECTRICAL VAULT

E7.1 NOT TO SCALE (FULL TRAFFIC COVER)

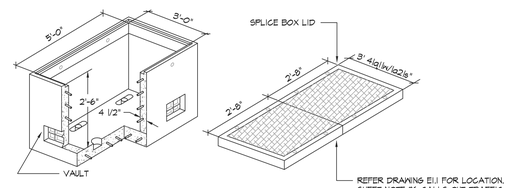


NOTES:

1. HIGH DENSITY REINFORCED CONCRETE BOX WITH NON-SETTING SHOULDERS POSITIONED TO MAINTAIN GRADE AND FACILITATE BACK FILLING. APPROXIMATE DIMENSIONS SHOWN.
2. ALL CONDUITS SHALL ENTER FROM SIDES OF PULL BOX. CONTRACTOR SHALL PROVIDE PULL BOX EXTENSION AS REQUIRED. NO CONDUITS SHALL BE ALLOWED FROM THE BOTTOM OF THE PULL BOX.
3. CONTRACTOR SHALL STACK CONDUITS AS REQUIRED TO MEET THE NEC CODE REQUIREMENTS.
4. PROVIDE BELL ENDS ON ALL CONDUIT.
5. ALL PENETRATIONS INTO BOXES SHALL BE SEALED WITH GROUT.
6. PROVIDE 4" DRAIN HOLE WITH MINIMUM 8" CRUSHED ROCK BEDDING AT BOTTOM OF BOX FOR DRAINAGE.

5 B3048 TRAFFIC BOX DETAIL

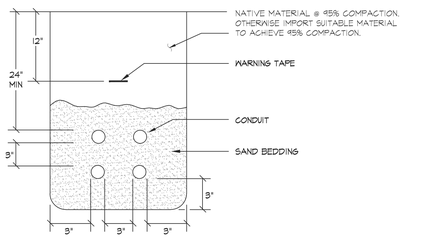
E7.1 NOT TO SCALE (FULL TRAFFIC COVER)



A HEAVY DUTY REINFORCED CONCRETE BOX WITH STANDARD KNOCKOUTS AND PULLING IRONS MADE IN CONFORMANCE WITH P G & E REQUIREMENTS.

6 3' X 5' ELECTRICAL VAULT

E7.1 NOT TO SCALE



NOTES:

1. COORDINATE WITH LANDSCAPE ARCHITECT TRENCH DETAILS WITHIN CHEMICALLY TREATED AREAS.

7 TYPICAL TRENCH DETAIL

E7.1 NOT TO SCALE

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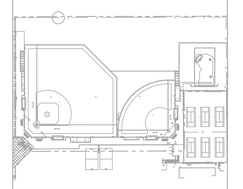
KEYMAP



SHEET TITLE

ELECTRICAL DETAILS

PROJECT NAME

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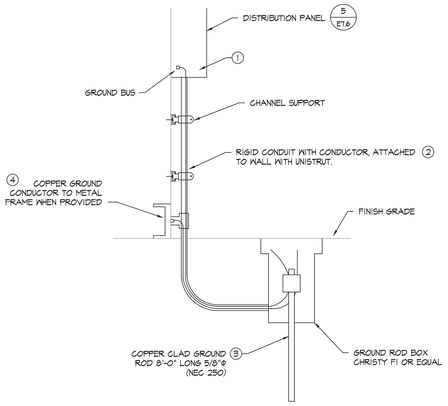
SHEET NO. E7.1 OF

ELECTRICAL DETAILS

DRAWING NAME: C:\Users\cnguyen\ACCE\Communication site - Documents\Projects\Year 2022\EK22049_Softball Baseball @ Hiram JHS\ET\1_Electrical Details.dwg
PLOT DATE: 09-15-22 PLOTTED BY: cnguyen

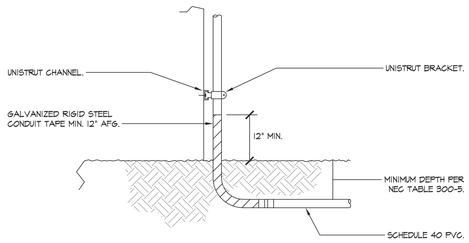


1. SIZE OF CONDUCTORS SHALL COMPLY WITH NEC TABLE 250-66
2. BOND SEPARATE CONDUCTORS FROM GROUND ROD TO ELECTRICAL PANEL AND TO METAL BUILDING FRAME (NEC 250-50). IN ADDITION TO DETAIL ABOVE, BOND THE ELECTRICAL GROUND TO NEAREST METALLIC COLD WATER PIPE. (NEC 250-50)
3. CHECK RESISTANCE TO GROUND, IF RESISTANCE EXCEEDS 25 OHMS, INSTALL ADDITIONAL GROUND RODS AS REQUIRED. (NEC 250-56)
4. ALL MODULES OF METAL FRAME BUILDINGS SHALL BE ELECTRICALLY BONDED TOGETHER. (BOLTING ONLY IS NOT ACCEPTABLE BONDING.)

1 TYPICAL GROUND INSTALLATION

E7.4 NOT TO SCALE

NOTE: GROUNDING TEST MUST BE BY INDEPENDENT LICENSED ELECTRICAL CONTRACTOR OR TESTING LABORATORY.

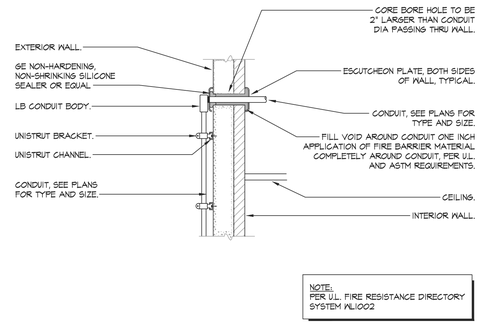


NOTE:

1. FOR WOOD STUD WALL: USE 3/8"ø LAG BOLT WITH MIN. 3/4" EMBEDMENT INTO STUDS. (ONE AT EACH END OF BRACKET)
2. FOR CONCRETE WALL: 1/2"ø HILTI KWIK-BOLT TZ STAINLESS STEEL ANCHOR (ICC ESR-1917) WITH MINIMUM EMBEDMENT OF 3-5/8" IN 4" DEEP HOLE. 1/2"ø ANCHORS SHALL BE TORQUE-TESTED TO 40 FT-LBS, WHICH MUST BE ATTAINED WITHIN ONE-HALF TURN OF NUT AFTER FIRM CONTACT WITH ANCHOR WASHER. INSTALL ANCHOR PER CBC 1908A.5.1. AND RECOMMENDATIONS IN MANUFACTURER'S ESR REPORT. ANCHOR INSTALLATIONS REQUIRE SPECIAL INSPECTION. (TYPICAL OF (4) PER SECTION)

2 UNDERGROUND CONDUIT RISER DETAIL

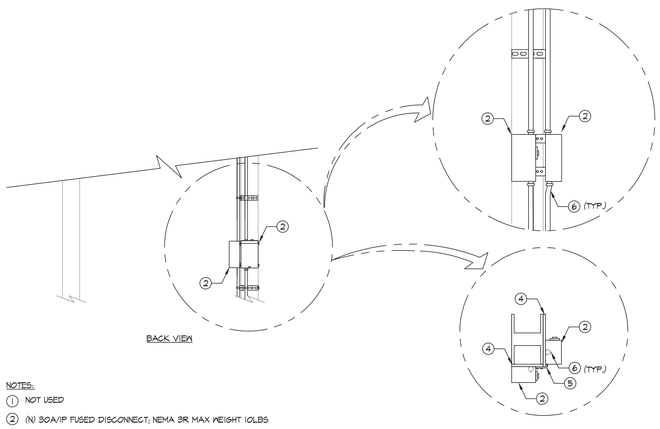
E7.4 NOT TO SCALE



NOTE:
PER U.L. FIRE RESISTANCE DIRECTORY SYSTEM WL1002

3 CONDUIT WALL PENETRATION DETAIL

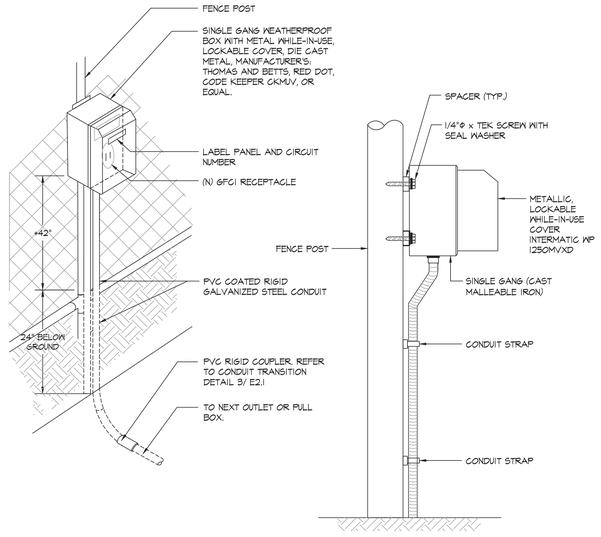
E7.4 NOT TO SCALE



NOTES:
1. NOT USED
2. (N) 30A/1P FUSED DISCONNECT; NEMA 3R MAX WEIGHT 10LBS
3. NOT USED
4. (N) UNISTRUT MOUNTED ON H-BEAM
5. (N) 3 HOLE FLUSH FITTING L - BRACKET
6. (N) POWER CONDUIT

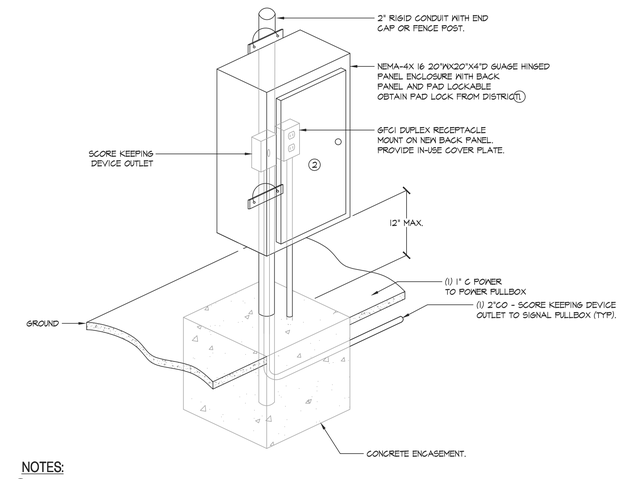
4 SCOREBOARD DISCONNECT PANEL MOUNTING

E7.4 NOT TO SCALE



5 RECEPTACLE MOUNTING

E7.4 NOT TO SCALE



NOTES:
1. PULL CAN SHALL BE PROVIDED WITH SEPERATORS TO DIVIDE POWER & SIGNAL. PROVIDE AS REQUIRED TO COMPLY WITH N.E.C. NEMA-4X PULL CAN SHALL BE APPROVED U.L. LISTED.
2. PROVIDE ENGRAVED NAME PLATE. IDENTIFY AS SCOREBOARD CONTROL. NAME PLATE SHALL BE PROVIDED PER SPECIFICATIONS.

6 METAL ENCLOSURE DETAIL

E7.4 NOT TO SCALE

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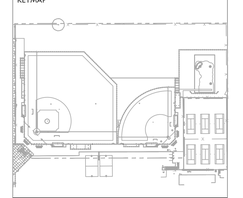

SHEET TITLE

ELECTRICAL DETAILS

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HIRAM JOHNSON HIGH SCHOOL
GOLF PRACTICE FACILITY, VARSITY BASEBALL AND SOFTBALL FIELDS

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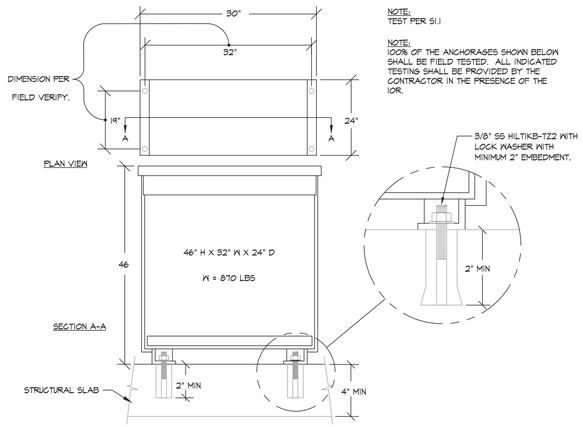
ELECTRICAL DETAILS

DRAWING NAME: C:\Users\cnguyen\ACE\Communication site - Documents\Projects\Year 2022\EK22049_Softball Baseball @ Hiram JHS\E7.4_Electrical Details.dwg
PLOT DATE: 09-15-22 PLOTTED BY: cnguyen

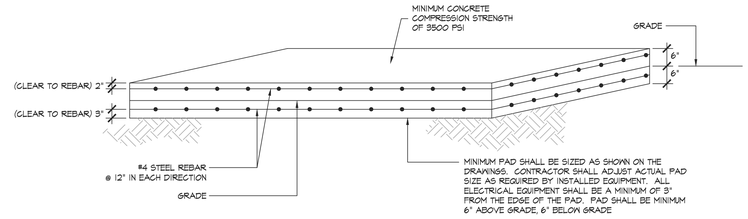


NOTE:
TEST PER SI.1

NOTE:
100% OF THE ANCHORAGES SHOWN BELOW SHALL BE FIELD TESTED. ALL INDICATED TESTING SHALL BE PROVIDED BY THE CONTRACTOR IN THE PRESENCE OF THE IOR.

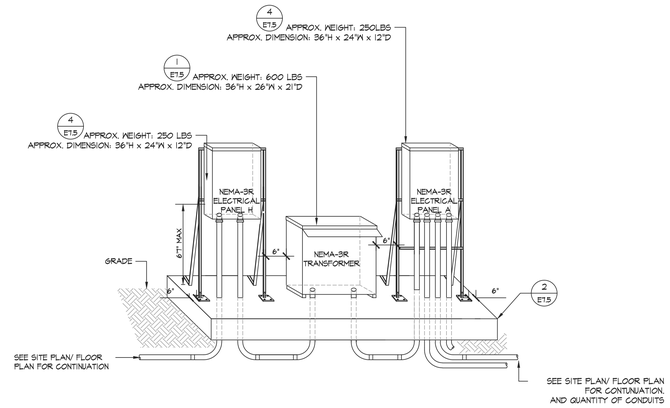
1 DISTRIBUTION TRANSFORMER INSTALLATION DETAIL

1 / E7.5 NOT TO SCALE



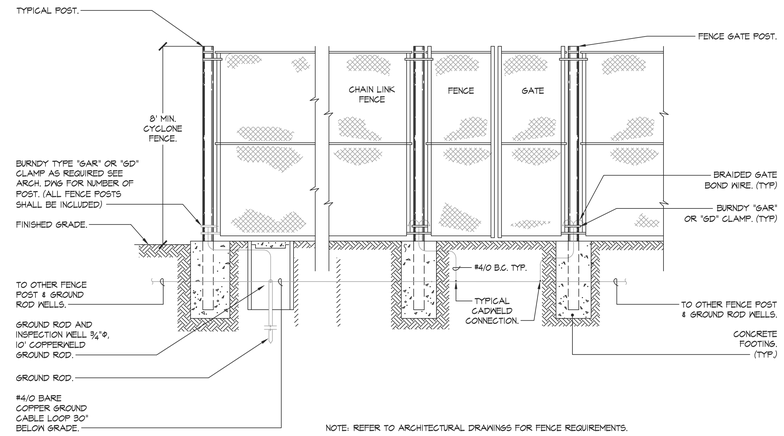
2 CONCRETE ELECTRICAL EQUIPMENT PAD

2 / E7.5 NOT TO SCALE



3 NEMA 3R ELECTRICAL PANEL / TRANSFORMER / BREAKER ELEVATION DETAIL

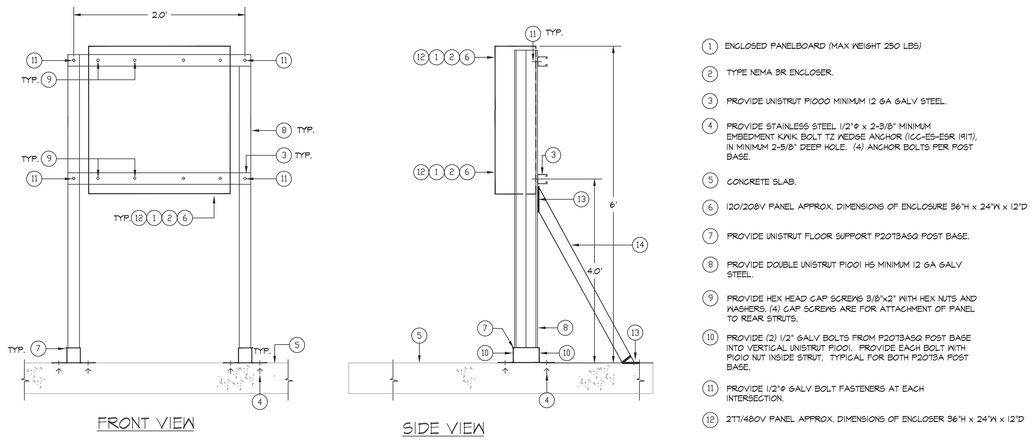
3 / E7.5 NOT TO SCALE



NOTE: REFER TO ARCHITECTURAL DRAWINGS FOR FENCE REQUIREMENTS.

5 CHAIN LINK FENCE GROUNDING DETAIL

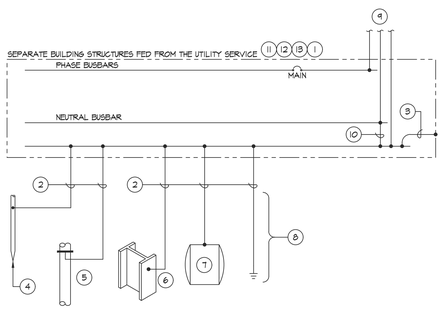
5 / E7.5 NOT TO SCALE



1. ENCLOSED PANELBOARD (MAX WEIGHT 250 LBS)
2. TYPE NEMA 3R ENCLOSER.
3. PROVIDE UNISTRUT P1000 MINIMUM 12 GA GALV STEEL.
4. PROVIDE STAINLESS STEEL 1/2"Ø x 2-3/8" MINIMUM EMBEDMENT KWIK BOLT TZ WEDGE ANCHOR (ICC-ES-ESR 1917), IN MINIMUM 2-5/8" DEEP HOLE. (4) ANCHOR BOLTS PER POST BASE.
5. CONCRETE SLAB.
6. 120/208V PANEL APPROX. DIMENSIONS OF ENCLOSURE 36"H x 24"W x 12"D
7. PROVIDE UNISTRUT FLOOR SUPPORT P2073ASG POST BASE.
8. PROVIDE DOUBLE UNISTRUT P1001 HS MINIMUM 12 GA GALV STEEL.
9. PROVIDE HEX HEAD CAP SCREWS 3/8"x2" WITH HEX NUTS AND WASHERS. (4) CAP SCREWS ARE FOR ATTACHMENT OF PANEL TO REAR STRUTS.
10. PROVIDE (2) 1/2" GALV BOLTS FROM P2073ASG POST BASE INTO VERTICAL UNISTRUT P1001. PROVIDE EACH BOLT WITH P1010 NUT INSIDE STRUT. TYPICAL FOR BOTH P2073A POST BASE.
11. PROVIDE 1/2"Ø GALV BOLT FASTENERS AT EACH INTERSECTION.
12. 277/480V PANEL APPROX. DIMENSIONS OF ENCLOSER 36"H x 24"W x 12"D
13. UNISTRUT BRACKET. PROVIDE P1843 WITH 1/2"Ø M.B. & 1/2"Ø HILTI - KB - TZ TO SLAB.
14. UNISTRUT SUPPORT. PROVIDE P1000 WITH 1/2"Ø M.B. EA END.

4 ENCLOSED CIRCUIT BREAKER AND PANEL INSTALLATION ON UNISTRUT DETAIL

4 / E7.5 SCALE: NOT TO SCALE



NOTES:

1. THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE USED FOR GROUNDING OR BONDING OF EQUIPMENT, STRUCTURES OR FRAMES REQUIRED TO BE GROUNDED OR BONDED(250.32(B)). PROVIDE ALL OF THE CONNECTIONS BELOW AND BOND TO THE EQUIPMENT GROUNDING CONDUCTOR.
2. GROUNDING ELECTRODE CONDUCTOR. GROUNDING ELECTRODE CONDUCTOR SHALL BE BARE OR INSULATED COPPER AND SHALL BE SIZED PER TABLE 250.66.
3. EQUIPMENT BONDING JUMPER. EQUIPMENT BONDING JUMPER SHALL BE INSULATED COPPER AND SHALL BE SIZED PER TABLE 250.122.
4. PROVIDE A MINIMUM OF (1) GROUND ROD. GROUND ROD SHALL BE 10' LONG BY 3/4" DIAMETER COPPERCLAD. GROUNDING ELECTRODE CONDUCTOR SHALL BE BONDED TO THE GROUND ROD VIA EXOTHERMIC WELD. GROUND RODS SHALL BE INSTALLED IN A ROUND BOX. SEE DETAIL FOR BOX/INSTALLATION REQUIREMENTS. (PROVIDE FOR ALL NEW BUILDINGS. FOR EXISTING BUILDINGS PROVIDE WHEN ALL OTHER GROUNDING ELECTRODES ARE NOT AVAILABLE)
5. PROVIDE GROUNDING ELECTRODE CONDUCTOR CONNECTION TO THE NEAREST UNDERGROUND WATER PIPE IN DIRECT CONTACT WITH EARTH FOR A MINIMUM OF 10 FEET. WATER PIPE SHALL BE ELECTRICALLY CONTINUOUS TO POINTS OF CONNECTION OF THE GROUNDING ELECTRODE CONDUCTOR. CONNECTION POINT SHALL NOT BE GREATER THAN 5' FROM THE POINT OF ENTRANCE OF THE UNDERGROUND WATER PIPE. (PROVIDE FOR ALL NEW AND EXISTING BUILDINGS WHERE UNDERGROUND WATER PIPE IS AVAILABLE)
6. PROVIDE GROUNDING ELECTRODE CONDUCTOR CONNECTION TO THE NEAREST METAL FRAME OR STRUCTURAL STEEL. (PROVIDE FOR ALL NEW AND EXISTING BUILDINGS WHERE METAL FRAME OR STRUCTURAL STEEL IS AVAILABLE)
7. PROVIDE GROUNDING ELECTRODE CONDUCTOR CONNECTION TO ALL OTHER LOCAL METAL UNDERGROUND SYSTEMS OR STRUCTURES, AS REQUIRED WHEN AVAILABLE.
8. PROVIDE A CONCRETE ENCASED ELECTRODE (UFER) IN AND NEAR THE BOTTOM OF THE STRUCTURAL FOOTING OR SLAB ON GRADE THAT IS IN DIRECT CONTACT WITH EARTH. THE ELECTRODE SHALL BE A MINIMUM OF 20 FEET LONG INSIDE THE PAD, FOOTING OR SLAB. THE ELECTRODE CONDUCTOR SHALL BE BARE COPPER AND SIZED PER TABLE 250.66 BUT SHALL NOT BE LESS THAN #4AWG. (PROVIDE ONLY FOR NEW BUILDINGS)
9. INCOMING SERVICE FROM THE UTILITY SERVICE. SEE SINGLE LINE DIAGRAM FOR PHASE, NEUTRAL AND EQUIPMENT GROUNDING CONDUCTOR SIZING.
10. MAIN BONDING JUMPER.
11. PROVIDE GROUNDING ELECTRODE CONDUCTOR CONNECTION TO THE SECONDARY SIDE OF ALL WYE CONNECTED BUILDING TRANSFORMERS. GROUNDING ELECTRODE CONDUCTOR MAY BE CONNECTED TO THE NEAREST STRUCTURAL STEEL OR THE MAIN SERVICE GROUNDING ELECTRODE ONLY. SEE TRANSFORMER GROUNDING DETAIL FOR ADDITIONAL REQUIREMENTS.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL GROUNDING AND BONDING AS REQUIRED PER THE CEC.
13. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

6 SEPARATE BUILDING STRUCTURES GROUNDING DETAIL FOR DISTRIBUTION BOARD

6 / E7.5 NOT TO SCALE

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
1843 Iron Point Rd. Suite 140
Folsom, CA 95630
tel: 916.415.6554
fax: 916.415.6525
www.VerdeDesignInc.com

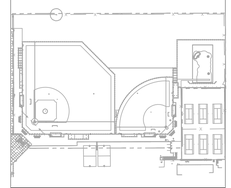
STAMP

REGISTERED PROFESSIONAL ENGINEER — CHRISTOPHER S. FERRARA — E16890 Exp. 06/30/23 — ELECTRICAL — STATE OF CALIFORNIA

CONSULTANT

American Consulting Engineers Electrical, Inc.
1590 The Alameda Suite 200
San Jose, CA 95126
JOB #EK22049
408/236-2312
Fax: 408/236-2316

KEYMAP



SHEET TITLE

ELECTRICAL DETAILS

PROJECT NAME

HIRAM JOHNSON HIGH SCHOOL
GOLF PRACTICE FACILITY, VARSITY BASEBALL AND SOFTBALL FIELDS

PROJECT ADDRESS

6879 14TH AVENUE
SACRAMENTO, CA 95820

SUBMITTAL	DATE
DD 50% SUBMITTAL	04/15/22
100% DSA SUBMITTAL	05/27/22
DSA BACK CHECK	08/11/22
DSA ADDENDUM SUBMITTAL	09/16/22

NO.	REVISIONS	DATE
1	ADDENDUM	09/16/22

DRAWN BY	CHECKED BY
CN	AA/SF
DATE ISSUED	SCALE
09/16/2022	AS NOTED
PROJ. NO.	
2203200	
SHEET NO.	
E7.5 OF ELECTRICAL DETAILS	

DRAWING NAME: C:\Users\cnguyen\ACCE\Communication site - Documents\Projects\Year 2022\EK22049_Softball Baseball @ Hiram JHS\E7.5_Electrical Details.dwg
PLOT DATE: 09-15-22 PLOTTED BY: cnguyen

TABLE A - SCOREBOARD ASSEMBLY WORKSHEET (1)

Nevco Part No.or Description	Part Height [ft.]	Part Width [ft]	Part Weight [lb]
1608 (2)	6'0"	18'0"	320 lbs. (640 lbs.)
ADO 18-3 (2)	3'0"	18'0"	120 lbs. (240 lbs.)
Total			

TOTAL ASSEMBLY DIMENSIONS & WEIGHT (2)

Total Assembly Height =	9 ft. 0 in.		
Total Assembly Width =	18 ft. 0 in.		
Total Assembly Weight =	880 lbs.		
Distance from Finish Grade to Bottom of Sign =	10 ft. 0 in.	Total Height = Total Assembly Height + Distance from Finish Grade to Bottom of Sign =	19 ft. 0 in.

SCOREBOARD ASSEMBLY FOOTNOTES

1. Verify part number, dimensions, and weight with Nevco
2. See Step 3 of Scoreboard Assembly Worksheet Instructions

TABLE B - STRUCTURAL DESIGN VALUES

All values reported are unfactored and strength level, unless noted otherwise

Gravity Design Data	Value
Dead Loads:	
Sign Dead Load	PER SCHEDULE
Snow Loads:	
Ground Snow Load, P, (Maximum)	30 psf
Deflection Criteria:	
Sign, Wind Load	H/240

Wind Design Data	Value
Design Wind Speed (3-sec gust), V_{ULT}	100 mph
Design Wind Speed (3-sec gust), V_{ASD}	77 mph
Risk Category	II
Exposure Category	C
Applicable Internal Pressure Coefficient	± 0.18
Design Wind Pressure(s) for Components & Cladding (Not specifically designed by the Registered Design Professional, and to be modified by applicable factors per ASCE 7)	q_h=21.8xK_z psf K_zVARIES

Earthquake Design Data	Value
Risk Category	II
Importance Factor, I_e	1.0
Mapped Spectral Response Accelerations (Maximum)	S_S= 3.73 g S_1= 1.0 g
Site Class	A through E
Spectral Response Coefficients (Maximum)	S_{MS}= 2.49 g S_{M1}= 1.0 g
Seismic Design Category	E
Analysis Procedure Used	Equivalent Lateral Force Procedure (ASCE 7, 12.8)
Basic Seismic-Force Resisting System	Non-Building Structure, ASCE 7-10 Chapter 15
Response Modification Factor, Signs and Billboards Table 15.4-2	R= 3.0
Seismic Response Coefficient	C_S= 0.83
Design Base Shear	V= C_S w_D

Flood Design
When the scoreboard is located in a flood zone other than Zone X, a letter stamped and signed from a Geotechnical Engineer is needed to validate allowable soil values specified in the PC are still applicable.

Geotechnical Design Data	Value
Geotechnical Design Based on: 2019 California Building Code, Chapter 18A, Table 1806.A.2 (Class 5 Material)	
Allowable Soil Bearing Pressure (DL + LL)	1,500 psf
Design Passive Pressure, P, (Tabular value has been increased per CBC Section 1806A.3.4 for pier design)	100 pcf
Design Skin Friction, f_1	100 psf

TABLE C - SITE SPECIFIC SEISMIC AND WIND VALUES

EARTHQUAKE DESIGN DATA

Mapped Spectral Response Accelerations (Maximum)	S_S= 0.534 g S_1= 0.244 g
Site Class	D
Spectral Response Coefficients (Maximum)	S_{MS}= 0.489 g S_{M1}= 0.340 g

Wind Design Data	Value
Design Wind Speed (3-sec gust), V_{ULT}	95 mph
Exposure Category	C

TABLE D - SITE FLOOD ZONE

THIS SECTION NOT REQUIRED IF SITE IS IN FLOOD ZONE X

Geotechnical Engineer: Not Required

Letter Dated: Not Required

SCOREBOARD ASSEMBLY WORKSHEET (TABLE A, C & D) INSTRUCTIONS

STEP 1: DETERMINE DESIRED SCOREBOARD ASSEMBLY. FILL OUT SCOREBOARD ASSEMBLY TABLE (TABLE A BELOW). PROVIDE NEVCO PART NUMBERS, PART HEIGHT, PART WIDTH, AND PART WEIGHTS.

STEP 2: DETERMINE TOTAL ASSEMBLY HEIGHT, WIDTH, AND WEIGHT

STEP 3: BASED ON TOTAL ASSEMBLY WIDTH, DETERMINE THE NUMBER OF REQUIRED COLUMNS.
SEE SHEETS SB1.X FOR 1 COLUMN ASSEMBLY OPTIONS
SB2.X FOR 2 COLUMN ASSEMBLY OPTIONS
SB3.X FOR 3 COLUMN ASSEMBLY OPTIONS
SB4.X FOR 4 COLUMN ASSEMBLY OPTIONS

STEP 4: PICK FOUNDATION TYPE (CAISSON WITH EMBEDDED COLUMN, CAISSON WITH BOLTED COLUMN, OR MAT FOOTING) AND BRACED OR UNBRACED COLUMN OPTION. MARK APPLICABLE SHEET ON SHEET INDEX, SB0.1

STEP 5: MARK APPLICABLE CHECK BOX ON DETAIL 'A' OF SELECTED COLUMN/FOUNDATION OPTION

STEP 6: FILL IN SITE SPECIFIC SEISMIC AND WIND VALUES TABLE C ON SB0.1.

STEP 7: FILL IN SITE SPECIFIC FLOOD ZONE AS REQUIRED, TABLE D ON SB0.1

STEP 8: VERIFY ALL APPLICABLE SHEETS ARE MARKED ON SHEET INDEX, SB0.1. INCLUDE ONLY MARKED SHEETS AS PART OF DSA SUBMITTAL

SITE SPECIFIC SUBMITTAL REQUIREMENTS

SEE DSA POLICY PL 07-02 FOR ADDITIONAL INSTRUCTIONS REGARDING USE AND APPLICATION OF THIS PRE-CHECK DOCUMENT. ALL SITE SPECIFIC SUBMITTALS SHALL INCLUDE:

1. COMPLETED DSA 1 APPLICATION AND FILING FEE AND COPY OF THE PRE-CHECK DOCUMENT WITH APPLICABLE DESIGN OPTION MARKED ON THE MARQUEE, TWO COLUMN, THREE COLUMN OR FOUR COLUMN ASSEMBLY SCHEDULES.
2. SITE PLAN OF FACILITY IDENTIFYING ALL STRUCTURES BY DSA APPLICATION NUMBER. LOCATION OF SCOREBOARD SHALL BE IDENTIFIED. ELECTRICAL PANEL SERVING THE SCOREBOARD SHALL BE LOCATED AND IDENTIFIED.
3. WHERE WIRELESS CONTROLLERS ARE NOT SPECIFIED, AN ACCESSIBLE PATH OF TRAVEL AND ACCESSIBLE SEATING FOR THE SCOREBOARD OPERATOR SHALL BE IDENTIFIED AND PROVIDED.
4. PROVIDE AN ELEVATION OF PROPOSED SCOREBOARD IDENTIFYING ALL INSTALLED DISPLAY COMPONENTS, SIGNAGE, TRUSSES, AND ADDITIONAL COMPONENTS IN THE PRE-CHECK DOCUMENT. ALL ELEMENT WEIGHTS SHALL BE SPECIFIED.
5. THE APPLICABLE SHEETS SHALL BE IDENTIFIED BY MARKING APPROPRIATE CHECK BOX ON THIS SHEET.
6. THE APPLICABLE CONFIGURATION SHALL BE IDENTIFIED BY MARKING APPROPRIATE CHECK BOX ON THE 'A' DETAILS ON THE APPLICABLE SHEET.
7. PROVIDE CUT SHEETS OF THE BOARDS, BOXES, AND EQUIPMENT TO BE MOUNTED ON THE STRUCTURE. CUT SHEETS SHALL INCLUDE WEIGHTS AND DIMENSIONS
8. SITE SPECIFIC SEISMIC DESIGN CRITERIA SHALL BE PROVIDED IN THE DRAWINGS.
9. SITE SPECIFIC BASIC DESIGN WINDSPEED AND SITE EXPOSURE SHALL BE PROVIDED ON THE DRAWINGS.
10. STEEL COATING SPECIFICATIONS FOR WEATHER PROTECTION IF DIFFERENT THAN NOTED ON SB0.3
11. A GEOHAZARD REPORT IS NOT REQUIRED PER IR A-4.13. IF A SCOREBOARD IS LOCATED IN A FLOOD ZONE OTHER THAN ZONE X, A LETTER STAMPED AND SIGNED BY A GEOTECHNICALENGINEER IS REQUIRED VALIDATING THE ALLOWABLE SOIL VALUES.
12. PROVIDE A SITE SPECIFIC DESIGN FOR STRUCTURES THAT DO NOT MEET THE MINIMUM SETBACK REQUIREMENTS.
13. PROVIDE A SITE SPECIFIC DESIGN FOR STRUCTURES LOCATED IN AN AREA WITH LIQUEFIABLE SOIL OR SITE CLASS F.

CHECK ALL THAT APPLY	SHEET INDEX	
■ (REQ'D)	SB0.1	COVER SHEET
☐	~~SB0.2~~	~~EXAMPLE DSA 103 - TESTING AND INSPECTIONS~~
■ (REQ'D)	SB0.3	STRUCTURAL NOTES
☐	~~SB1.1~~	~~MARQUEE CAISSON - EMBEDDED~~
☐	~~SB1.2~~	~~MARQUEE CAISSON - BOLTED~~
☐	~~SB1.3~~	~~MARQUEE MAT FOOTING~~
☐	~~SB2.1~~	~~TWO COLUMN CAISSON - EMBEDDED~~
■	SB2.2	TWO COLUMN CAISSON - BOLTED
☐	~~SB2.3~~	~~TWO COLUMN MAT FOOTING~~
☐	~~SB3.1~~	~~THREE COLUMN CAISSON - EMBEDDED~~
☐	~~SB3.2~~	~~THREE COLUMN CAISSON - BOLTED~~
☐	~~SB3.3~~	~~THREE COLUMN MAT FOOTING~~
☐	~~SB4.1~~	~~FOUR COLUMN CAISSON - EMBEDDED~~
☐	~~SB4.2~~	~~FOUR COLUMN CAISSON - BOLTED~~
☐	~~SB4.3~~	~~FOUR COLUMN MAT FOOTING~~
■ (REQ'D)	SB5.1	ATTACHMENT DETAILS
■ (REQ'D)	SB5.2	OPTIONAL SCOREBOARD FEATURE ATTACHMENT DETAILS

CODE INFORMATION

2019 CALIFORNIA BUILDING STANDARDS CODE (TITLE 24, CCR):

2022 ADMINISTRATIVE CODE, PART 1, TITLE 24 CODE OF REGULATIONS (CCR)
2019 CALIFORNIA BUILDING CODE VOLUMES 1 &2, PART 2, TITLE 24 CCR
2019 CALIFORNIA ELECTRICAL CODE, PART 3, TITLE 24 CCR
2019 CALIFORNIA MECHANICAL CODE, PART 4, TITLE 24 CCR
2019 CALIFORNIA PLUMBING CODE, PART 5, TITLE 24 CCR
2019 CALIFORNIA ENERGY CODE, PART 6, TITLE 24 CCR
2019 CALIFORNIA FIRE CODE, PART 9, TITLE 24 CCR
2019 CALIFORNIA GREEN BUILDING STANDARDS CODE, PART 11, TITLE 24 CCR
2019 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24 CCR

REFERENCED CODE SECTIONS FOR APPLICABLE STANDARDS:
2019 CALIFORNIA BUILDING CODE, CHAPTER 35
2019 CALIFORNIA FIRE CODE, CHAPTER 80

GENERAL REQUIREMENTS

1. THE ARCHITECT OR PROFESSIONAL ENGINEER IN GENERAL RESPONSIBLE CHARGE SHALL SIGN AND SEAL ALL DRAWINGS AND SPECIFICATIONS PER TITLE 24, PART 1, SECTIONS 4-316(E) AND 4-317 (H).
2. CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY ADDENDA, OR CONSTRUCTION CHANGE DOCUMENTS APPROVED BY THE DIVISION OF THE STATE ARCHITECT (DSA), AS REQUIRED BY TITLE 24, PART 1, SECTION 4-338.
3. THE DISTRICT SHALL EMPLOY A CLASS 2 PROJECT INSPECTOR WHEN OVERALL STRUCTURE HEIGHT IS 35 FEET OR GREATER, OTHERWISE A CLASS 3 PROJECT INSPECTOR MAY BE USED. THE PROJECT INSPECTOR SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK , AND SHALL SUBMIT VERIFIED REPORTS ON A DSA-6 FORM. THE DUTIES OF THE PROJECT INSPECTION ARE DEFINED IN TITLE 24, PART 1, SECTION 4-342.
4. ALL SCOREBOARD CONTROLS SHALL BE FULLY ACCESSIBLE VIA WIRELESS CONTROL OR COMPLETE DESIGN SHALL BE DEMONSTRATED IN THE SITE-SPECIFIC APPLICATION.
5. ALL ASSEMBLIES SHALL HAVE ELECTRICAL DISCONNECT PER CEC 600.6 AND BE ELECTRICALLY GROUNDED PER CEC 600.7, SEE DETAIL B/SB5.1
6. IN FLOOD ZONES, LOCATION OF ELECTRICAL ELEMENTS SHALL CONFORM TO ASCE 24, SECTION 7.2 PER DSA PR-14-01 SECTION 1.2.1.

GENERAL NOTES AND MATERIAL SPECIFICATIONS

SEE PAGE, SB0.3, FOR ALL MATERIAL SPECIFICATIONS AND NOTES.

SSG structural engineers
San Luis Obispo • Fresno • Bakersfield
ssgse.com
805.439.2110

REGISTERED PROFESSIONAL ENGINEER — DANIEL E. PARSON — No. 5405 — STRUCTURAL — STATE OF CALIFORNIA

SEOR SEAL — DATE SIGNED: 11.20.20

nevco
301 East Harris Avenue, Greenville, Illinois 62246
Phone: (618) 664-0360
www.nevco.com

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-119648 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 05/04/2021
DSA STAMP

PRE-CHECK (PC) DOCUMENT
CODE: 2019

A separate project application for construction is required.

HIRAM JOHNSON HS BS, SB & GOLF PROJECT
SCOREBOARD MODEL 7632, 18' WIDE x 9' HIGH WITH 36" HIGH AD-BOARD AT TOP COLUMNS BOLTED TO PIERS 2019 CBC

COVER SHEET

SHEET INFORMATION

DATE	03.25.2021
DRAWN	JMK
CHECKED	MEP
SSG JOB #	S20284
SHEET	SB0.1

STRUCTURAL NOTES

GENERAL NOTES

1. The following notes, typical details and schedules shall apply to all phases of this project unless otherwise shown or noted.
2. Specific notes and details shall take precedence over general notes and typical details.
3. All materials and workmanship shall conform to the minimum standards of the 2019 edition Title 24 of the California Building Code (CBC) and such other regulating agencies exercising authority over any portion of the work. The contractor shall have a current copy of the CBC on the job site.
4. The "Contract or Construction Documents" shall consist of these notes, details, schedules, plans, and drawings.
5. All specifications, including but not limited to materials and products, shall be those put forth in the "Contract or Construction Documents". No substitutions shall be permitted to be used or assumed to be used in the bidding or construction process without written approval by the Structural Engineer of Record.
6. The contractor shall examine the "Contract or Construction Documents" and shall notify the Architect or Structural Engineer of Record of any discrepancies he may find before proceeding with the work.
7. All information on existing conditions shown on drawings are based on best present knowledge available, but without guarantee of accuracy. The Contractor shall verify and be responsible for all dimensions and conditions at the site and shall notify the Architect or Structural Engineer of Record of any discrepancies between actual site conditions and information shown on or in the "Contract or Construction Documents" before proceeding with work.
8. The Contractor shall immediately notify the Architect or Structural Engineer of Record of any condition which in his opinion might endanger the stability of the structure or cause distress of the structure.
9. All work shall conform to the best practice prevailing in the various trades comprising work. The Contractor shall be responsible for coordinating the work of all trades.
10. These "Contract or Construction Documents" represent the finished structure, and do not indicate the method of construction. The Contractor shall supervise and direct the work and shall be solely responsible for construction means, methods, techniques, sequences and procedures.
11. Inspection and approval for fabricator's shops used for fabrication of structural load bearing members, components, materials or assemblies shall conform to CBC Section 1704A.2.5.
    A. Labeling (as required or specified) shall be provided in accordance with CBC Section 1703A.5.
    B. Evaluation and follow-up inspection services (as required or specified), shall conform to CBC Section 1703A.6.
12. The Contractor shall provide temporary bracing and shoring for all structural members as required for structural stability of the structure during all phases of construction.
13. The Contractor shall take all steps necessary to ensure proper alignment of the structure after the installation of all structural and finish materials. This shall include any necessary preloading of the structure to determine final position of the completed work.
14. Observation visits to the project site by field representatives of Architect and/or Structural Engineer of Record (support services) shall not include inspections of safety or protective measures, nor construction procedures, techniques or methods. Any support services performed by Architect or Structural Engineer of Record during any phase of construction, shall be distinguished from continuous and detailed inspection services (as required by any regulating governmental agency, e.g. the Authority Having Jurisdiction) provided by others, these support services, whether of material or work, are performed solely for the purpose of assisting in quality control and in achieving conformance with contract documents, but do not guarantee Contractor's performance and shall not be construed as supervision of construction.
15. These notes, details, drawings and specifications (Contract or Construction Documents) do not carry necessary provisions for construction safety. These documents and all phases of construction hereby contemplated are to be governed, at all times, by applicable provisions of the current California Occupational Safety and Health Act.
16. Where any conflict occurs between the requirements of federal, state and local laws, codes, ordinances, rules and regulations, the most stringent shall govern.
17. Written dimensions shall have precedence over scaled dimensions.
18. Drawings (notes, schedules, details and plans) shall have precedence over Structural Calculations.
19. In the event that certain features of the construction are not fully shown on the drawings or called for in the General Notes or Specifications, then their construction shall be of the same character as for similar conditions that are shown or called for.
20. ASTM designation and all standards refer to the latest amendments.
21. These structural "Contract or Construction Documents" shall not be modified without prior written approval of the Structural Engineer of Record.
22. Only structural working drawings approved by the Authority Having Jurisdiction are permitted to be used for construction on this project. All other drawings or documents are obsolete and are not permitted on the job site, nor shall they be used for any construction purposes. Contractors using unapproved drawings or documents are solely responsible for all work not performed in accordance with the "approved" drawings.
23. A Division of the State Architect certified project inspector employed by the District (Owner) and approved by the Division of the State Architect shall provide continuous inspection of the work. The duties of the inspector are defined in Section 4-342, Part 1, Title 24 California Code of Regulations.

FOUNDATION NOTES

1. Basis: See Structural Design Values Chart, Sheet SB0.1 Table B
2. Unexpected soil conditions: Allowable values and foundation design are based upon the minimum values provided in Table 1806A.2 of the 2019 California Building Code. See SB0.1 for values
3. Excavate to required depths and dimensions (as indicated in drawings), cut square and smooth with firm level bottoms. Care shall be taken not to over-excavate foundation at lower elevation and prevent disturbing of soils around higher elevation.
4. Footings shall be poured in neat excavations, without side forms whenever possible.
5. Carry all foundations to required depths into compacted fill or natural soil (as per Structural Plans and Details).
6. All foundation excavations shall be inspected and approved by the Inspector of Record or Geotechnical Engineer prior to forming and placement of reinforcing or concrete.
7. Foundations shall not be poured until all required reinforcing steel, sleeves, inserts, conduits, pipes, etc. and formwork is properly placed and inspected by the Authority having Jurisdiction.
8. The sides and bottoms of excavations which are to have concrete contact must be moistened several times just prior to pouring upon them.
9. De-water footings, as required, to maintain dry working conditions.

REINFORCING STEEL

1. All reinforcing steel shall be deformed intermediate grade bars conforming to ASTM A615, Grade 60 (f_y = 60 ksi) unless noted otherwise.
2. Reinforcing steel shall not be welded, unless specifically noted otherwise.
3. To hold reinforcing bars in their true position and prevent displacement, standard tie and anchorage devices must be provided. Placing of reinforcement shall conform to ACI 318-14 Section 26.6.2.
4. Shop drawings for fabrication of any reinforcing steel shall be approved by Contractor and submitted to Project Specific Architect or Project Specific Structural Engineer of Record, for their review, prior to fabrication.
5. Refer to typical details for minimum splice length and minimum radius of bend of reinforcing steel.
6. All reinforcing steel splices shall be staggered 24", unless specifically noted or detailed otherwise.
7. All reinforcing bar bends shall be made cold.
8. Fabrication, erection and placement of reinforcing steel shall conform to Concrete Reinforcing Steel Institute of Standard Practice.
9. Reinforcing steel shall be clean of rust, grease or other material likely to impair bond.

CONCRETE

1. All concrete shall have a minimum ultimate compressive strength (f'_c) as outlined below at 28 days. All concrete shall be regular weight (unless specifically noted otherwise).
    A. Concrete for footings: 4,500 psi w/c = 0.45 max. (see note 2)
3. Maximum Fly Ash content shall be 15%, by weight, of total cementitious materials and shall conform to ASTM C618.
4. All concrete work shall comply with CBC Chapter 19A and ACI 318-14 and latest edition of ACI Manual of Concrete Practice.
5. Special Inspection (as required or specified) shall conform to CBC Chapter 17A.
6. Cement shall be portland cement Type V and shall conform to ASTM C150.
7. Aggregates shall conform to ASTM C33, provide aggregates from a single source.
8. Water shall conform to ASTM C94 and be potable.
9. Where not specifically detailed, the minimum concrete cover on reinforcing steel shall be:
    A. Concrete cast against and permanently exposed to earth or weather: 3"
10. All reinforcing steel, anchor bolts, dowels, inserts and any other hardware to be set in concrete shall be well secured in position prior to pouring of concrete.
11. Vibrate all concrete as it is placed, with a mechanical vibrator operated by experienced personnel. The vibrator shall be used to consolidate the concrete, not transport it. Reinforcing and forms shall not be vibrated.
12. Formwork design and removal shall conform to ACI 318-14 Section 26.11. Remove forms in accordance with the following minimum schedule:
    A. Side forms of footings: Minimum 48 hours
    B. Column and pier forms: 72 hours & 70% of design strength
15. Concrete shall not free fall more than six feet. Use tremie, pump or other approved methods.
16. Concrete shall be maintained in a moist condition for a minimum of 5 days after placement.
17. The Contractor may use concrete admixtures as a construction means and methods to execute "Contract or Construction Documents". Use of admixture is solely the responsibility of the Contractor.
18. Mix designs shall be prepared by an approved testing laboratory, signed by a licensed engineer and shall be submitted to the Project Specific Design Professional of Record for approval. SSG is not responsible for review or approval of site specific concrete mix design.
19. Only one grade of concrete shall be allowed on project site at any one time
20. Concrete strength shall be verified by standard cylinder tests (in accordance with CBC Section 1905A.1.16) made by an approved testing laboratory.
21. Concrete placed when the air temperature has fallen to, or is expected to fall below 40° shall conform to ACI 318-14 Section 26.5.4, and ACI 306R-16.
22. Concrete placed during hot weather shall conform to ACI 318-14 Section 26.5.5, and ACI 305R-14.
23. Conduits and sleeves placed within structural concrete shall not be tied directly to structural reinforcement.
    A. 1" concrete cover shall be maintained around all reinforcement.
24. No stakes shall be permitted within the footing section.

DRILLED CAISSON/PIER AND GRADE BEAM NOTES

1. Excavations for drilled caissons/pier shall be performed in compliance with local grading codes and ordinances as well as CBC Chapters 18A and 33A.
2. Provide Special Inspection in accordance with CBC Section 1705A.8 and Table 1705A.8.
3. Excavations for all drilled caissons/piers shall be approved by the Project Geotechnical Engineer or Project Special Inspector prior to placing of concrete.
4. Reinforcement for drilled caissons/pier shall be approved by the Structural Engineer of Record prior to placing in caisson/pier excavation.
5. De-water caisson/pier footings and building excavation as required to maintain dry working conditions.
6. Caisson/piers are to be poured within 24 hours after completion of drilling operation. Shoring requirements shall be determined by contractor. Contractor shall be provide fall protection and safety barriers at and near the drilled hole as required by OSHA and the Authority Having Jurisdiction.
7. The Contractor shall be responsible for all shoring, bracing, etc. necessary to support cut and/or fill banks, and existing structures during excavation, and the forming and placement of concrete.
8. Bottom of caissons/piers shall be thoroughly cleaned prior to placement of concrete.

STRUCTURAL STEEL AND WELDING

1. All structural steel construction shall conform to AISC 360-16 and AISC 341-16.
    A. Fabrication of all structural steel shall be done in the shop of an approved fabricator. Inspection and approval for fabricator's shops used for fabrication of structural load bearing members, components, materials or assemblies shall conform to CBC Section 1704A.2.5.
2. All structural steel shall conform to the following specifications:
    A. Angles, channels, plates, bars, rounds, and other miscellaneous shapes: Shall conform to ASTM A36 and shall have a minimum yield stress (F_y) of 36 ksi.
    B. Wide-flange shapes: Shall conform to ASTM A992 and shall have a minimum yield stress (F_y) of 50 ksi.
    C. Structural tubes: Shall be ASTM A500, Grade B, and shall have a min. yield stress (F_y) of 46 ksi.
3. All structural steel fasteners shall conform to the following specifications:
    A. Bolts shall conform to ASTM A307
    B. Anchor Bolts shall conform to ASTM F1554, Grade as noted in drawings
    C. Carbon steel nuts shall conform to ASTM A563
    D. Stainless steel nuts shall conform to ASTM F594
    E. Washers shall conform to ASTM F436
4. Special Inspection shall be provided for all structural steel and welding, in accordance with CBC Chapter 17A.
5. All structural steel shall be fabricated, erected and welded in accordance with AISC Specifications for Structural Steel Buildings (AISC 360-10) and Code of Standard Practice for Steel Buildings and Bridges (AISC 303-10).
6. All welding shall be done by qualified and certified welders.
7. Shop drawings for the fabrication of any structural steel shall be approved by the Contractor and submitted to Project Specific Architect or Project Specific Structural Engineer of Record for their review, prior to fabrication.
8. No holes other than those specifically detailed shall be allowed through structural steel members. Burning of holes is not permitted.
9. All welding shall conform to 'AWS D1.1' specifications for welding. (E-70XX Electrodes).
10. Where fillet weld size is not indicated, use 'AWS' minimum size based on the thickness of the thinner part being welded, as specified in AISC Specifications for Structural Steel Buildings (AISC 360-10), Section J2.2.
11. All butt welds to be complete joint penetration, unless specifically noted otherwise.
12. Welder qualification requirements, welding procedure and welding electrodes for all structural steel (except structural sheet steel, see steel decking) shall conform to CBC Sections 1705A.2.1 and 2204A.1.
13. Provide 3" minimum concrete cover around all structural steel below grade.
14. Structural steel embedded into concrete shall be uncoated.
15. Structural steel shall be hot-dip galvanized (minimum ASTM A123 or A153 Class D) or painted with zinc-rich primer, undercoat, and finish coat; or equivalent paint system.
16. All exposed steel fasteners, including cast-in-place anchor bolts/rods, shall be stainless steel (Type 304 minimum), hot-dip galvanized (ASTM A153, Class D minimum or ASTM F2329), or protected with corrosion-preventive coating that demonstrated no more than 2% of red rust in minimum 1,000 hours of exposure in salt spray test per ASTM B117. Zinc plated fasteners do not comply with this requirement.

ABBREVIATIONS

A.B.	Anchor Bolt
ABV.	Above
ACI	American Concrete Institute
ADJ.	Adjacent
AHJ	Authority Having Jurisdiction
AISC	American Institute of Steel Construction
AOR	Architect of Record
APPROX.	Approximate(ly)
ASCE	American Society of Civil Engineers
ARCH.	Architect, Architecture
ASTM	American Society of Testing and Materials
ATR	All Thread Rod
AWS	American Welding Society
B.O.	Bottom of _____
BOT.	Bottom
b/t	Between
CAC	California Administrative Code
CBC	California Building Code
CIP	Cast-in-place
CJP	Complete Joint Penetration
℄	Centerline
CLR.	Clear
COL.	Column
CONC.	Concrete
CONN.	Connection
CONST.	Construction
CONT.	Continue, Continuous
Ø	Diameter
DBL.	Double
DET.	Detail
DL	Dead Load
DSA	Division of State Architect
DWGS.	Drawings
EA.	Each
E.F.	Each Face
ELEC.	Electric, Electrical
ELEV.	Elevation
EMBED.	Embedded, Embedment
EOR	Engineer of Record
EQ.	Equal
EQUIP.	Equipment
E.S.	Each Side
E.W.	Each Way
EXT.	Exterior
FAB.	Fabricated
FDN.	Foundation
F.G.	Finish Grade
F.O.	Face of _____
FRMG.	Framing
FT.	Foot,Feet
FTG.	Footing
GA.	Gauge
GALV.	Galvanized
GEOR	Geotechnical Engineer of Record
HORIZ.	Horizontal
HSS	Hollow Steel Section
HT.	Height
ICC	International Building Code
ICC	International Code Council
ID	Inside Diameter
IN.	Inch, Inches
INT.	Interior
ksi	Kips per Square Inch
LL	Live Load
MAX.	Maximum
MB	Machine Bolt
MFR.	Manufactured, Manufacturer
MIN.	Minimum
MPH	Miles per Hour
N/R	Not Required
N.T.S.	Not to Scale
o.c.	On Center
o/	Over
OD	Outside Diameter
PEN.	Penetration
PL	Plate
PJP	Partial Joint Penetration
psi	Pounds per Square Inch
PSF	Pounds per Square Foot
REBAR	Reinforcing Bar
REINF.	Reinforcement
REQ'D	Required
S.F.	Square Feet
SHT.	Sheet
SIM.	Similar
SMS	Sheet Metal Screw
SQ.	Square
STAGG'D	Staggered
STD.	Standard
STL.	Steel
SEOR	Structural Engineer of Record
T&B	Top and bottom
THR'D	Threaded
T.O.	Top of _____
TYP.	Typical
U.N.O.	Unless Noted Otherwise
VERT.	Vertical
VIF	Verify in Field
w/	With
w/c	Water/Cement Ratio
WSS	Welded Steel Stud
WT.	Weight

NOTE: FOR TESTING & SPECIAL INSPECTIONS SEE FORM DSA 103 SUBMITTED SEPARATELY

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REGISTERED PROFESSIONAL ENGINEER — DANIEL E. PARSON — No. S405 — STRUCTURAL — STATE OF CALIFORNIA

SEOR SEAL

DATE SIGNED: 11.20.20

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DIV. OF THE STATE ARCHITECT
APP: 04-119642 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 05/04/2021

DSA STAMP

PRE-CHECK (PC) DOCUMENT
CODE: 2019

A separate project application for construction is required.

HIRAM JOHNSON HS BS, SB & GOLF PROJECT
SCOREBOARD MODEL 7632, 18' WIDE x 9' HIGH WITH 36" HIGH AD-BOARD AT TOP COLUMNS BOLTED TO PIERS
2019 CBC

STRUCTURAL NOTES & SPECIAL INSPECTIONS

SHEET INFORMATION

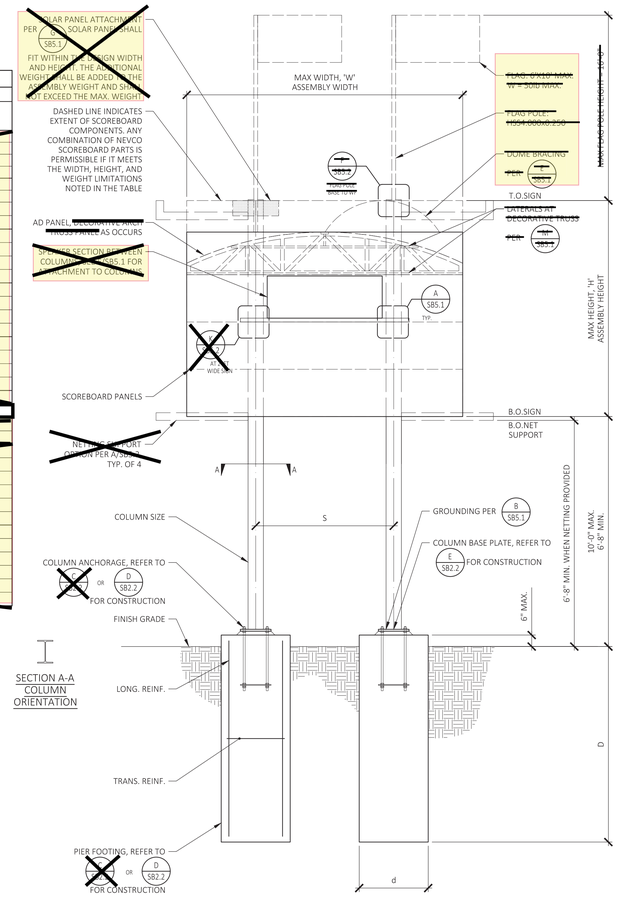
DATE: 03.25.2021
DRAWN: JMK
CHECKED: MEP
SSG JOB #: S20284
SHEET: SB0.3

TWO COLUMN ASSEMBLY

ASSEMBLY CRITERIA						PIER FOOTING CRITERIA (2)				BASE PLATE				ANCHOR RODS				
ASSEMBLY WIDTH, W	CHECK OPTION THIS APPLICATION	MAX. WEIGHT	ASSEMBLY HEIGHT, H	COLUMN SPACING, S	COLUMN SIZE	PIER DIAMETER, d	DEPTH, D	LONG. REINF.	TRANS. REINF. (1)	THICKNESS, t	WIDTH, B	LENGTH, L	WELD	QUANTITY & DIAMETER	GRADE	EDGE DISTANCE, X	GROUT HEIGHT	EMBED
8'-0"		770 lbs.	≤ 8'-0"	6'-0"	W8x24	36"Ø	7'-0"	8 - #6	#4 @ 4½" o.c.	1"	20"	20"	5/16	(4) - 1⅛"Ø	F1554 - GR.36	2½"	2"	48"
		1,160 lbs.	≤ 12'-0"	6'-0"	W10x33	36"Ø	8'-0"	8 - #6	#4 @ 4½" o.c.	1¼"	20"	20"	5/16	(4) - 1¼"Ø	F1554 - GR.36	2½"	2"	48"
		1,540 lbs.	≤ 16'-0"	6'-0"	W12x40	36"Ø	9'-0"	8 - #6	#4 @ 4½" o.c.	1¼"	20"	20"	5/16	(4) - 1⅜"Ø	F1554 - GR.55	2½"	2"	48"
		1,920 lbs.	≤ 20'-0"	6'-0"	W14x61	42"Ø	9'-9"	8- #8	#4 @ 6" o.c.	1¼"	24"	24"	⅜	(4) - 1¼"Ø	F1554 - GR.55	2½"	2"	64"
9'-0"		870 lbs.	≤ 8'-0"	8'-0"	W8x24	36"Ø	7'-3"	8 - #6	#4 @ 4½" o.c.	1"	20"	20"	5/16	(4) - 1¼"Ø	F1554 - GR.36	2½"	2"	48"
		1,300 lbs.	≤ 12'-0"	8'-0"	W10x33	36"Ø	8'-3"	8 - #6	#4 @ 4½" o.c.	1½"	20"	20"	5/16	(4) - 1¼"Ø	F1554 - GR.36	2½"	2"	48"
		1,730 lbs.	≤ 16'-0"	8'-0"	W12x45	36"Ø	9'-3"	8 - #6	#4 @ 4½" o.c.	1½"	20"	20"	5/16	(4) - 1⅜"Ø	F1554 - GR.55	2½"	2"	48"
		2,160 lbs.	≤ 20'-0"	8'-0"	W14x61	42"Ø	10'-0"	8- #8	#4 @ 6" o.c.	1¼"	24"	24"	⅜	(4) - 1¼"Ø	F1554 - GR.55	2½"	2"	64"
10'-0"		960 lbs.	≤ 8'-0"	8'-0"	W8x24	36"Ø	7'-6"	8 - #6	#4 @ 4½" o.c.	1"	20"	20"	5/16	(4) - 1⅜"Ø	F1554 - GR.36	2½"	2"	48"
		1,440 lbs.	≤ 12'-0"	8'-0"	W10x33	36"Ø	8'-6"	8 - #6	#4 @ 4½" o.c.	1⅛"	20"	20"	5/16	(4) - 1⅜"Ø	F1554 - GR.36	2½"	2"	48"
		1,920 lbs.	≤ 16'-0"	8'-0"	W14x48	42"Ø	9'-9"	8 - #8	#4 @ 4½" o.c.	1½"	24"	24"	5/16	(4) - 1¼"Ø	F1554 - GR.105	2½"	2"	48"
		2,400 lbs.	≤ 20'-0"	8'-0"	W14x61	48"Ø	9'-9"	8 - #8	#4 @ 6" o.c.	1¼"	24"	24"	⅜	(4) - 1¼"Ø	F1554 - GR.105	2½"	2"	64"
12'-0"		1,160 lbs.	≤ 8'-0"	8'-0"	W10x33	36"Ø	8'-0"	8 - #6	#4 @ 4½" o.c.	1"	20"	20"	5/16	(4) - 1⅜"Ø	F1554 - GR.36	2½"	2"	48"
		1,730 lbs.	≤ 12'-0"	8'-0"	W14x43	42"Ø	9'-3"	8 - #6	#4 @ 4½" o.c.	1⅛"	24"	24"	5/16	(4) - 1¼"Ø	F1554 - GR.55	2½"	2"	48"
		2,310 lbs.	≤ 16'-0"	8'-0"	W14x61	42"Ø	10'-3"	8 - #8	#4 @ 4½" o.c.	1½"	24"	24"	⅜	(6) - 1¼"Ø	F1554 - GR.55	2½"	2"	64"
		2,880 lbs.	≤ 20'-0"	8'-0"	W14x61	48"Ø	10'-3"	8- #8	#4 @ 6" o.c.	1⅜"	24"	24"	7/16	(6) - 1¼"Ø	F1554 - GR.55	2½"	2"	64"
16'-0"		1,540 lbs.	≤ 8'-0"	8'-0"	W10x33	36"Ø	8'-9"	8 - #6	#4 @ 4½" o.c.	1⅛"	20"	20"	5/16	(4) - 1¼"Ø	F1554 - GR.55	2½"	2"	48"
		2,310 lbs.	≤ 12'-0"	8'-0"	W12x45	36"Ø	10'-3"	8 - #6	#4 @ 4½" o.c.	1¼"	24"	24"	⅜	(6) - 1¼"Ø	F1554 - GR.55	2½"	2"	48"
		3,080 lbs.	≤ 16'-0"	8'-0"	W14x61	48"Ø	12'-0"	8 - #8	#4 @ 6" o.c.	1⅜"	24"	24"	7/16	(6) - 1¼"Ø	F1554 - GR.55	2½"	2"	64"
		3,840 lbs.	≤ 20'-0"	8'-0"	W16x77	48"Ø	12'-0"	12- #8	#4 @ 6" o.c.	1½"	24"	24"	½	(6) - 1¼"Ø	F1554 - GR.105	2½"	2"	64"
18'-0"		1,730 lbs.	≤ 8'-0"	10'-0"	W12x35	36"Ø	9'-0"	8 - #6	#4 @ 4½" o.c.	1⅛"	20"	20"	⅜	(4) - 1⅜"Ø	F1554 - GR.36	2½"	2"	48"
	X	2,600 lbs.	≤ 12'-0"	10'-0"	W14x48	42"Ø	10'-0"	8 - #8	#4 @ 6" o.c.	1⅛"	24"	24"	⅜	(4) - 1¼"Ø	F1554 - GR.55	2½"	2"	64"
		3,080 lbs.	≤ 16'-0"	10'-0"	W14x61	48"Ø	10'-9"	8 - #8	#4 @ 6" o.c.	1½"	24"	24"	½	(6) - 1¼"Ø	F1554 - GR.55	2½"	2"	64"
		4,320 lbs.	≤ 20'-0"	10'-0"	W16x77	48"Ø	13'-0"	12- #8	#4 @ 6" o.c.	1⅞"	24"	30"	9/16	(6) - 1¼"Ø	F1554 - GR.55	3"	2"	64"
24'-0"		2,310 lbs.	≤ 8'-0"	14'-0"	W14x43	36"Ø	9'-9"	8 - #6	#4 @ 4½" o.c.	1⅛"	24"	24"	⅜	(4) - 1¼"Ø	F1554 - GR.55	2½"	2"	64"
		3,460 lbs.	≤ 12'-0"	14'-0"	W14x61	36"Ø	11'-6"	8 - #8	#4 @ 6" o.c.	1⅜"	24"	24"	⅜	(6) - 1¼"Ø	F1554 - GR.55	2½"	2"	64"
		4,610 lbs.	≤ 16'-0"	14'-0"	W16x67	48"Ø	11'-9"	12 - #8	#4 @ 6" o.c.	1⅜"	24"	30"	7/16	(4) - 1¼"Ø	F1554 - GR.55	3"	2"	64"
		5,760 lbs.	≤ 20'-0"	14'-0"	W18x86	48"Ø	13'-3"	12 - #8	#4 @ 6" o.c.	1⅜"	24"	30"	½	(6) - 1½"Ø	F1554 - GR.55	3"	2"	64"
		6,920 lbs.	≤ 24'-0"	14'-0"	W18x130	60"Ø	14'-6"	12 - #8	#4 @ 6" o.c.	2"	24"	30"	CJP	(6) - 1½"Ø	F1554 - GR.105	3"	2"	64"
		8,070 lbs.	≤ 28'-0"	14'-0"	W18x158	54"Ø	16'-0"	12 - #8	#4 @ 6"o.c.	2½"	24"	36"	CJP	(6) - 2"Ø	F1554 - GR.105	4"	2"	64"
28'-0"		2,690 lbs.	≤ 8'-0"	14'-0"	W14x43	42"Ø	10'-0"	12- #8	#4 @ 6" o.c.	1½"	24"	24"	⅜	(4) - 1¼"Ø	F1554 - GR.55	2½"	2"	64"
		4,040 lbs.	≤ 12'-0"	14'-0"	W14x61	48"Ø	11'-3"	8 - #8	#4 @ 6" o.c.	1⅞"	24"	30"	⅜	(4) - 1½"Ø	F1554 - GR.55	3"	2"	64"
		5,380 lbs.	≤ 16'-0"	14'-0"	W16x77	48"Ø	12'-9"	12 - #8	#4 @ 6" o.c.	2"	24"	30"	½	(6) - 1½"Ø	F1554 - GR.55	3"	2"	64"
		6,720 lbs.	≤ 20'-0"	14'-0"	W18x97	48"Ø	14'-3"	12 - #8	#4 @ 6" o.c.	2"	24"	30"	CJP	(6) - 1¾"Ø	F1554 - GR.55	3"	2"	64"
		8,070 lbs.	≤ 24'-0"	14'-0"	W18x143	54"Ø	15'-9"	12 - #8	#4 @ 6" o.c.	2½"	24"	36"	CJP	(6) - 2"Ø	F1554 - GR.105	4"	2½"	64"
		9,410 lbs.	≤ 28'-0"	14'-0"	W18x175	54"Ø	16'-6"	14 - #8	#4 @ 6"o.c.	3"	24"	36"	CJP	(6) - 2"Ø	F1554 -GR.105	4"	2½"	64"

NOTES: (#)
1. CONTRACTOR OPTION TO PROVIDE TIES OR SPIRAL REINFORCING. SEE C/SB2.2 FOR TIE OPTION, SEE D/SB2.2 FOR SPIRAL OPTION
2. CONTRACTOR IS RESPONSIBLE FOR CASING PIERS AND DRILLING SEQUENCING TO PROTECT PIER EXCAVATION

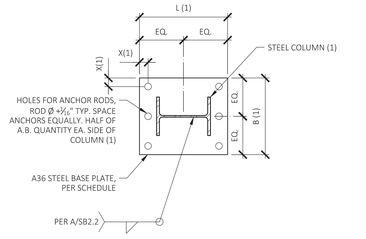
NOTE: TOTAL WEIGHT OF DISPLAYS & AD-BOARDS OF BACK-TO-BACK SCOREBOARDS (880 LBS.) IS LESS THAN THE MAX. WEIGHT OF ASSEMBLY LISTED ON TABLE ABOVE (2600 LBS.)



TWO COLUMN SCOREBOARD INSTALLATION

N.T.S.

A

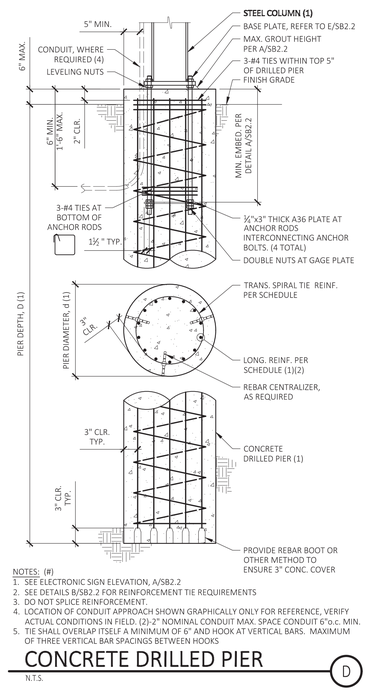


NOTES: (#)
1. SEE SCOREBOARD ELEVATION, A/SB2.2

BASE PLATE

N.T.S.

E

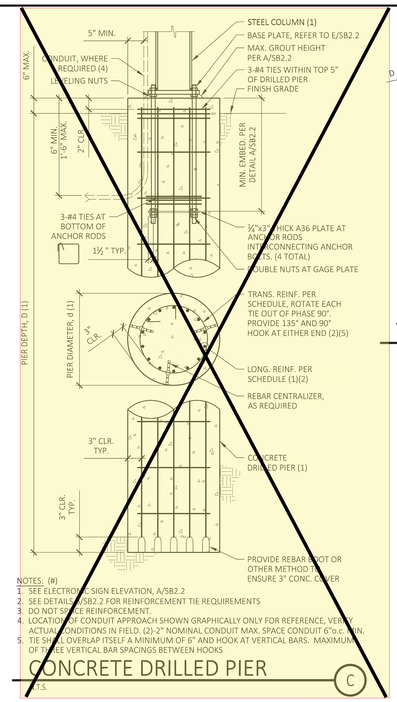


NOTES: (#)
1. SEE ELECTRONIC SIGN ELEVATION, A/SB2.2
2. SEE DETAILS B/SB2.2 FOR REINFORCEMENT TIE REQUIREMENTS
3. DO NOT SPLICE REINFORCEMENT.
4. LOCATION OF CONDUIT APPROACH SHOWN GRAPHICALLY ONLY FOR REFERENCE, VERIFY ACTUAL CONDITIONS IN FIELD. (2)-2" NOMINAL CONDUIT MAX. SPACE CONDUIT 6"o.c. MIN.
5. TIE SHALL OVERLAP ITSELF A MINIMUM OF 6" AND HOOK AT VERTICAL BARS. MAXIMUM OF THREE VERTICAL BAR SPACINGS BETWEEN HOOKS

CONCRETE DRILLED PIER

N.T.S.

D

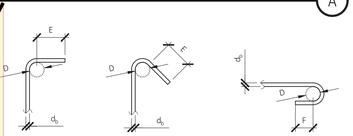


NOTES: (#)
1. SEE ELECTRONIC SIGN ELEVATION, A/SB2.2
2. SEE DETAILS B/SB2.2 FOR REINFORCEMENT TIE REQUIREMENTS
3. DO NOT SPLICE REINFORCEMENT.
4. LOCATION OF CONDUIT APPROACH SHOWN GRAPHICALLY ONLY FOR REFERENCE, VERIFY ACTUAL CONDITIONS IN FIELD. (2)-2" NOMINAL CONDUIT MAX. SPACE CONDUIT 6"o.c. MIN.
5. TIE SHALL OVERLAP ITSELF A MINIMUM OF 6" AND HOOK AT VERTICAL BARS. MAXIMUM OF THREE VERTICAL BAR SPACINGS BETWEEN HOOKS

CONCRETE DRILLED PIER

N.T.S.

C



Bar Size	Dimension of Standard Bends		
	D	E	F ($6d_b$) [3" min.]
#4	2"Ø	3"	3"

TIE AND STIRRUP BENDS

N.T.S.

B

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PROFESSIONAL ENGINEER — MICHAEL E. PARSON — No. 5405 — STRUCTURAL — STATE OF CALIFORNIA

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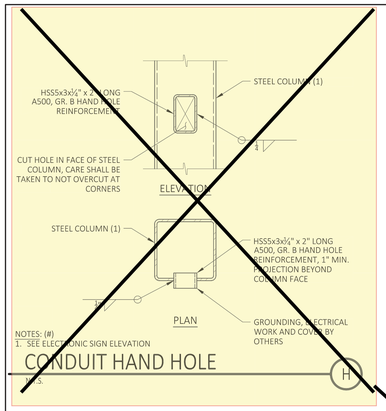
A separate project application for construction is required.

HIRAM JOHNSON HS BS, SB & GOLF PROJECT
SCOREBOARD MODEL 7632, 18' WIDE x 9' HIGH WITH 36" HIGH AD-BOARD AT TOP COLUMNS BOLTED TO PIERS 2019 CBC

TWO COLUMN CAISSON - BOLTED

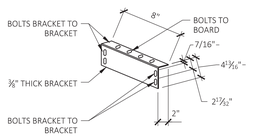
SHEET INFORMATION

DATE	03.25.2021
DRAWN	JMK
CHECKED	MEP
SSG JOB #	S20284
SHEET	SB2.2



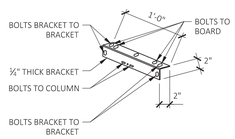
CONDUIT HAND HOLE

H



L BRACKET - B

F_y = 50 ksi



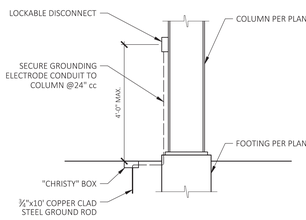
L BRACKET - A

F_y = 50 ksi

L BRACKETS

K

N.T.S.



ALL DISPLAYS MUST BE GROUNDED WITH NO MORE THAN 10 OHMS GROUND RESISTANCE

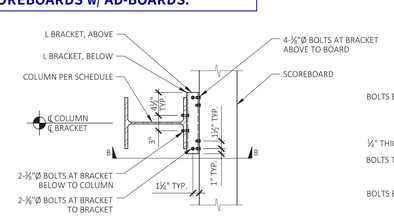
NOTES:
1. ALTERNATE: IT IS PERMISSIBLE TO UTILIZE THE UFER GROUNDING METHOD. DETAILS FOR UFER GROUNDING SHALL BE INCLUDED AS PART OF THE SITE SPECIFIC SUBMITTAL.

GROUNDING DETAIL

B

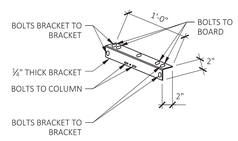
N.T.S.

NOTE: L BRACKETS TO OCCUR AT BOTH SIDES OF COLUMNS FOR BACK-TO-BACK SCOREBOARDS w/ AD-BOARDS.



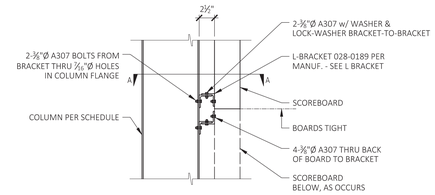
SECTION A-A

ALL BOLTS A307 GRADE



L BRACKET

F_y = 50 ksi



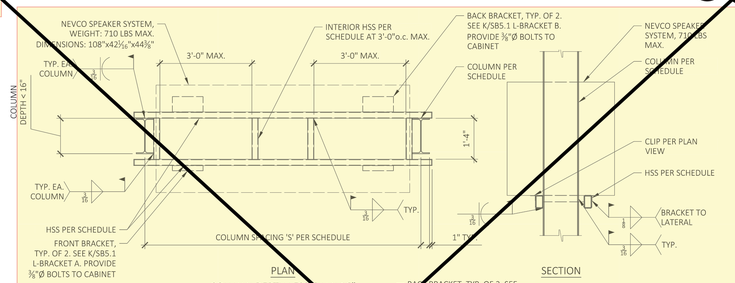
SECTION B-B
BOARD MOUNTING

ALL BOLTS A307 GRADE

SCOREBOARD PART ATTACHMENTS

A

N.T.S.



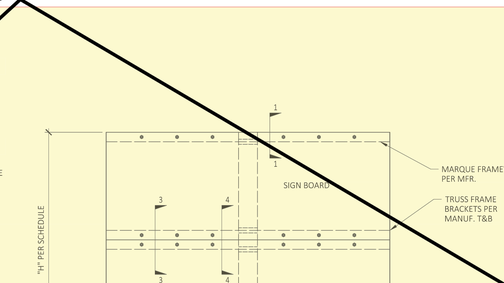
HSS SCHEDULE

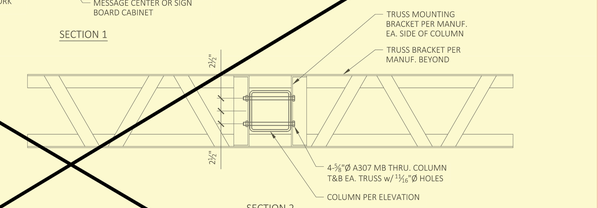
COLUMN SPACING, S	HSS SIZE
10'-0"	HSS4x3x¼
12'-0"	HSS4x3x⅜
14'-0"	HSS4x3x⅜

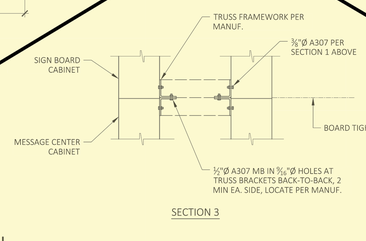
SPEAKER ATTACHMENT

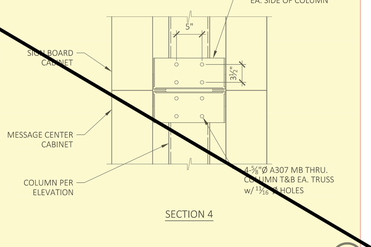
F

N.T.S.





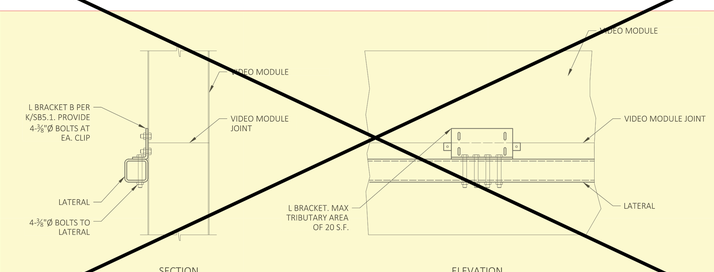




MARQUEE CENTER INSTALLATION

D

N.T.S.

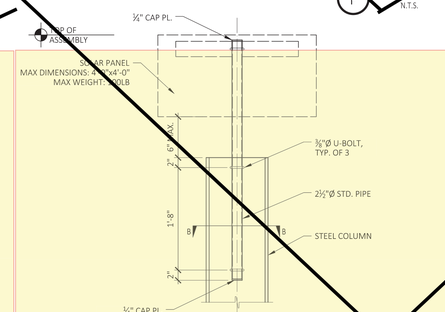


NOTES:
1. PROVIDE FILLET WELD WHERE LATERAL WIDTH EXCEEDS BRACKET WIDTH

VIDEO BOARD BRACKET ATTACHMENT

J

N.T.S.

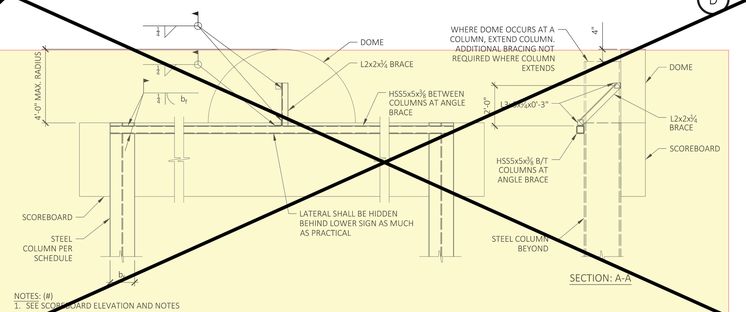


NOTES:
1. THE SOLAR PANEL, BATTERIES AND ENCLOSURE, AND INVERTER/RECEIVER DIMENSIONS SHALL FIT WITHIN THE PERMITTED EXTENT OF SCOREBOARD AS INDICATED IN THE SCOREBOARD ELEVATION AND SCHEDULE.
2. THE SOLAR PANEL, BATTERIES AND ENCLOSURE, AND INVERTER/RECEIVER WEIGHT ALONG WITH ALL OTHER SCOREBOARD COMPONENTS SHALL NOT EXCEED THE WEIGHT INDICATED IN THE SCOREBOARD SCHEDULE.

SOLAR PANEL/BATTERY/ INVERTER/RECEIVER ATTACHMENT

G

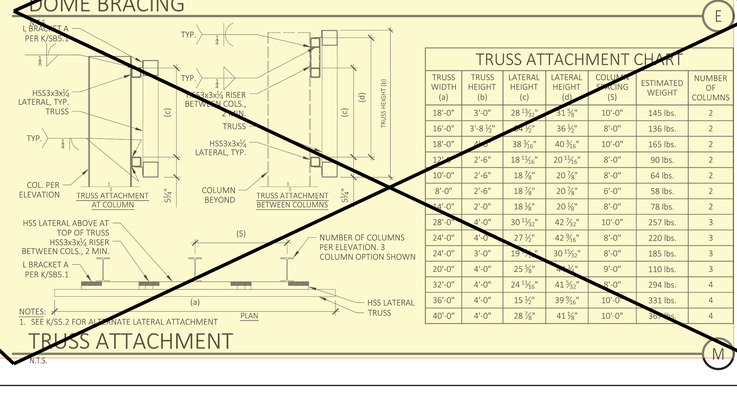
N.T.S.



NOTES: (#)
1. SEE SCOREBOARD ELEVATION AND NOTES

DOME BRACING

E



NOTES:
1. SEE K/SS.2 FOR ALTERNATE LATERAL ATTACHMENT

TRUSS ATTACHMENT

M

N.T.S.

TRUSS ATTACHMENT CHART

TRUSS WIDTH (a)	TRUSS HEIGHT (b)	LATERAL HEIGHT (c)	LATERAL HEIGHT (d)	COLUMN SPACING (S)	ESTIMATED WEIGHT	NUMBER OF COLUMNS
18'-0"	3'-0"	28 3/16"	31 7/8"	10'-0"	145 lbs.	2
16'-0"	3'-8 1/2"	34 1/2"	36 1/2"	8'-0"	136 lbs.	2
18'-0"	4'-0"	38 3/16"	40 3/16"	10'-0"	165 lbs.	2
12'-0"	2'-6"	18 13/16"	20 13/16"	8'-0"	90 lbs.	2
10'-0"	2'-6"	18 7/8"	20 7/8"	8'-0"	64 lbs.	2
8'-0"	2'-6"	18 7/8"	20 7/8"	6'-0"	58 lbs.	2
14'-0"	2'-0"	18 3/8"	20 3/8"	8'-0"	78 lbs.	2
28'-0"	4'-0"	30 13/16"	42 7/16"	10'-0"	257 lbs.	3
24'-0"	4'-0"	27 1/2"	42 7/16"	8'-0"	220 lbs.	3
24'-0"	3'-0"	19 5/16"	30 13/16"	8'-0"	185 lbs.	3
20'-0"	4'-0"	25 7/8"	38 5/16"	9'-0"	110 lbs.	3
32'-0"	4'-0"	24 13/16"	41 15/16"	9'-0"	294 lbs.	4
36'-0"	4'-0"	15 1/2"	39 9/16"	10'-0"	331 lbs.	4
40'-0"	4'-0"	28 7/8"	41 1/8"	10'-0"	367 lbs.	4

SSG
structural engineers
San Luis Obispo • Fresno • Bakersfield
ssgse.com
805.439.2110

REGISTERED PROFESSIONAL ENGINEER — MICHAEL E. PARSON — No. 5405 — STRUCTURAL — STATE OF CALIFORNIA

SEOR SEAL

DATE SIGNED: 11.20.20

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Phone: (618) 664-0360
www.nevco.com

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-119641 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE 05/04/2021

DSA STAMP

PRE-CHECK (PC) DOCUMENT
CODE: 2019

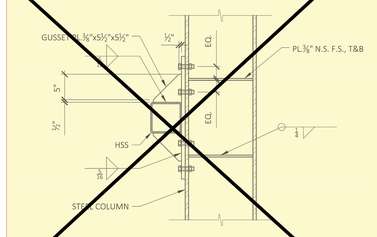
A separate project application for construction is required.

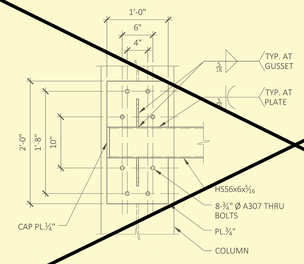
HIRAM JOHNSON HS BS, SB & GOLF PROJECT
SCOREBOARD MODEL 7632, 18' WIDE x 9' HIGH WITH 36" HIGH AD-BOARD AT TOP COLUMNS BOLTED TO PIERS 2019 CBC

ATTACHMENT DETAILS

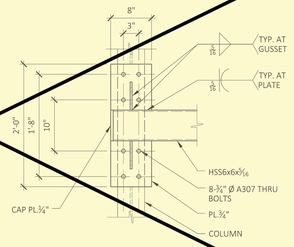
SHEET INFORMATION

DATE	03.25.2021
DRAWN	JMK
CHECKED	MEP
SSG JOB #	S20284
SHEET	SB5.1





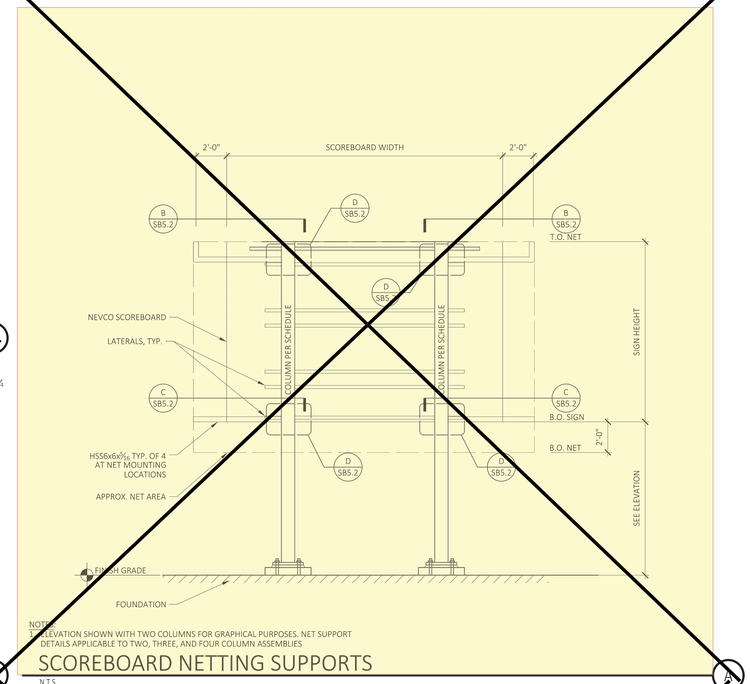
COLUMN WIDTH GREATER THAN OR EQUAL TO 9"



COLUMN WIDTH LESS THAN 9"

NET MOUNT PLATE

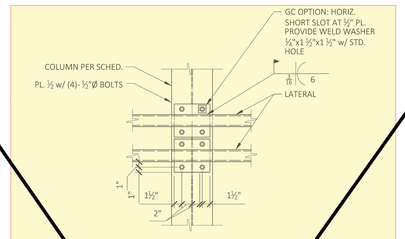
N.T.S.



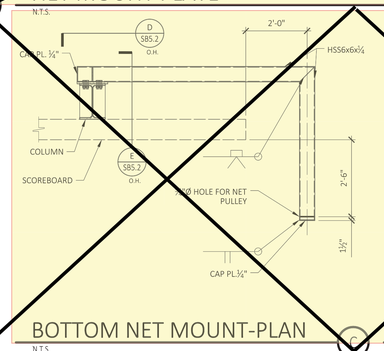
NOTE:
ELEVATION SHOWN WITH TWO COLUMNS FOR GRAPHICAL PURPOSES. NET SUPPORT DETAILS APPLICABLE TO TWO, THREE, AND FOUR COLUMN ASSEMBLIES

SCOREBOARD NETTING SUPPORTS

N.T.S.

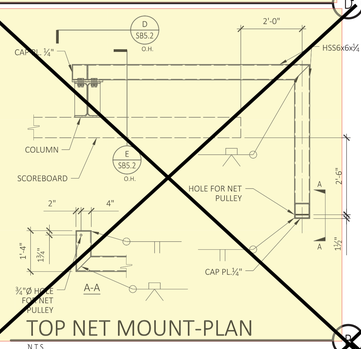


ELEVATION: OPTION C&D-BOLTED LATERAL



BOTTOM NET MOUNT-PLAN

N.T.S.



TOP NET MOUNT-PLAN

N.T.S.

OPTION C: LATERAL BOLTED/CLIP BOLTED

OPTION D: LATERAL BOLTED/CLIP WELDED

OPTION A: LATERAL WELDED/CLIP BOLTED

OPTION B: LATERAL WELDED/CLIP WELDED

LATERAL/BOARD ATTACHMENT

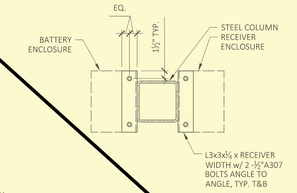
N.T.S.

SOLAR PANEL POLE ATTACHMENT

SECTION B-B

INVERTER/RECEIVER BOX ATTACHMENT

NOTES:
1. THE SOLAR PANEL, BATTERIES AND ENCLOSURE, AND INVERTER/RECEIVER DIMENSIONS SHALL FIT WITHIN THE PERMITTED EXTENT OF SIGN AS INDICATED IN THE MARQUEE ELEVATION AND SCHEDULE.
2. THE SOLAR PANEL, BATTERIES AND ENCLOSURE, AND INVERTER/RECEIVER WEIGHT ALONG WITH ALL OTHER SIGN COMPONENTS SHALL NOT EXCEED THE WEIGHT INDICATED IN THE MARQUEE SCHEDULE.



SECTION A-A

SOLAR PANEL/BATTERY/ INVERTER/RECEIVER ATTACHMENT

N.T.S.

COLUMN DEPTH >= 12"

COLUMN DEPTH < 12"

FLAG POLE COLUMN TO WF BEAM

N.T.S.

CAISSON

MAT FOOTING

DISTANCE TO SLOPE

N.T.S.

PLAN

SECTION

NOTES: (#)
1. LAY-IN SLIP CLAMP WITH ROCKING WASHER - INSTALL PER ICC ESR-3976

ALTERNATE BOARD ATTACHMENT

N.T.S.

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OPTIONAL SCOREBOARD FEATURE ATTACHMENT DETAILS

SHEET INFORMATION

DATE	03.25.2021
DRAWN	JMK
CHECKED	MEP
SSG JOB #	S20284
SHEET	SB5.2