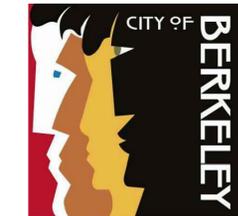




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# GROVE PARK FIELD AND PLAYGROUND RENOVATIONS

2828 Martin Luther King Jr. Way, Berkeley, CA 94703

COB SPECIFICATION NO. 22-11538-C  
CITY PLAN NO. 8256 FILE NO. 406-218

## PROJECT DIRECTORY

**OWNER**  
City of Berkeley Parks & Recreation and Waterfront Department  
1947 Center St, 5th Floor Phone: (510) 981-6346  
Berkeley, CA 94704  
Wendy Wellbrock, Project Manager

**LANDSCAPE ARCHITECT / CIVIL ENGINEER / STRUCTURAL ENGINEER**  
RRM Design Group  
325 Davis Street Phone: (510) 751-4910  
San Leandro, CA 94577 Fax: (805) 543-4609  
Julian Simeoni, Project Manager

**GEOTECHNICAL**  
BSK Associates  
399 Lindbergh Avenue Phone: (925) 315-3151  
Livermore, CA 94551 Fax: (925) 315-3152

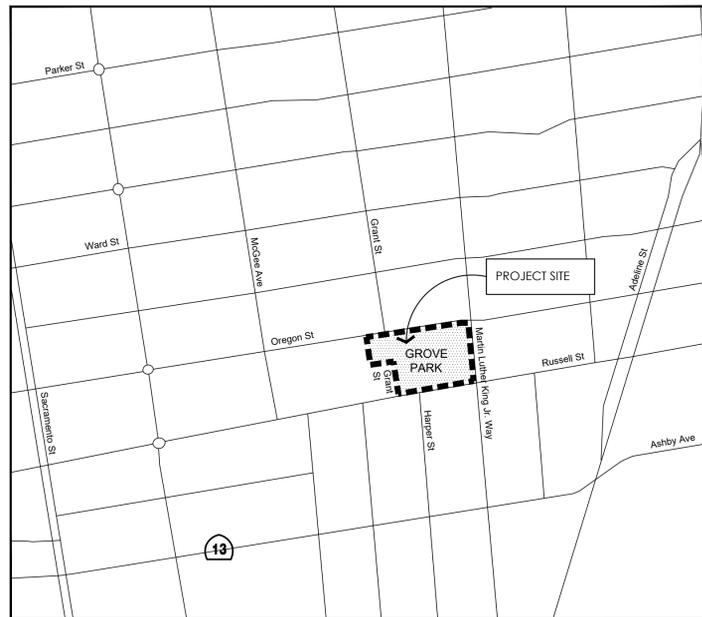
**ELECTRICAL**  
Natron Consulting Engineers  
1480 Moraga Road, Suite C #229 Phone: (510) 847-9041  
Moraga, CA 94556 Fax:  
Ron Zeiger, P.E.

## PROJECT DESCRIPTION

- THE PROJECT GENERALLY INCLUDES BUT IS NOT LIMITED TO:
- RENOVATED SOFTBALL FIELD, INCLUDING FIELD TURF GRASS, IRRIGATION, DUGOUTS, FENCES, SPORTS NETTING, BACKSTOP, AND REPLACEMENT OF FIELD LIGHTING CONTROLS.
  - RENOVATION OF AGES 2-5 AND 5-12 PLAYGROUNDS AND PICNIC AREA.
  - NEW FURNISHINGS.
  - NEW CONCRETE AND ASPHALT FLATWORK.
  - DRAINAGE IMPROVEMENTS.

## CODES

- ALL CONSTRUCTION SHALL CONFORM TO THE 2019 CALIFORNIA BUILDING, FIRE, MECHANICAL, PLUMBING, ELECTRICAL, ENERGY CODE, CALIFORNIA BUILDING CODE AND GREEN BUILDING CODE.



**LOCATION MAP**  
NOT TO SCALE

## BID ALTERNATE SUMMARY

NO.	DESCRIPTION	REFERENCE
1	BASE BID: INSTALL TURF SOD. (DEDUCT) REMOVE SOD SCOPE & REPLACE WITH TURF GRASS SEED INSTALLATION.	LC101 / LP101
2	BASE BID: PROTECT EXISTING WOOD WALL, FENCE POSTS, FABRIC AND FOOTINGS ALONG NORTHEASTERN STRETCH OF FIELD. (ADD) DEMOLISH EXISTING WOOD WALL AND REPLACE WITH CONCRETE WALL. REPLACE CHAIN LINK FENCE POSTS, FOOTINGS, AND FABRIC.	DM101 / LC102

## SHEET INDEX

- G001 TITLE SHEET
- G002 ADMINISTRATIVE USE PERMIT CONDITIONS OF APPROVAL
- G003 GENERAL CONSTRUCTION NOTES AND ABBREVIATIONS
- V101 EXISTING CONDITIONS / TOPOGRAPHIC SURVEY
- V102 ACCESSIBILITY PLAN
- DM001 DEMOLITION NOTES
- DM101 DEMOLITION AND TREE PROTECTION PLAN
- DM201 DEMOLITION FENCE PHOTO SHEET
- CE001 EROSION CONTROL NOTES AND DETAILS
- CE101 EROSION CONTROL PLAN
- CBMP001 CITY BMP SHEET
- CG101 GRADING AND DRAINAGE PLAN
- CG401 GRADING AND DRAINAGE BALLFIELD ENLARGEMENT PLAN
- CG402 GRADING AND DRAINAGE PLAYGROUND ENLARGEMENT PLAN
- CW101 STORMWATER MANAGEMENT PLAN
- CH101 HORIZONTAL CONTROL PLAN
- CH102 HORIZONTAL CONTROL POINT TABLE
- LC101 CONSTRUCTION PLAN
- LC102 CONSTRUCTION PLAN - FENCE & WALL LAYOUT
- LC401 CONSTRUCTION PLAN - BACKSTOP & DUGOUT ENLARGEMENT
- LC402 CONSTRUCTION PLAN - PLAYGROUND AREA ENLARGEMENT
- LC501 CONSTRUCTION DETAILS
- LC502 CONSTRUCTION DETAILS
- LC503 CONSTRUCTION DETAILS
- LC504 CONSTRUCTION DETAILS
- LC505 CONSTRUCTION DETAILS
- LC506 CONSTRUCTION DETAILS
- LC507 CONSTRUCTION DETAILS
- LC508 CONSTRUCTION DETAILS
- S-101 GENERAL NOTES & STRUCTURAL DETAILS
- LI001 IRRIGATION NOTES
- LI101 IRRIGATION PLAN
- LI501 IRRIGATION DETAILS
- LP101 PLANTING PLAN
- E-1.1 ELECTRICAL LEGEND AND DETAILS
- E-2.1 ELECTRICAL SITE PLAN
- E-2.2 ELECTRICAL SITE PLAN

## PROJECT INFORMATION

TOTAL IRRIGATED LANDSCAPE AREA: 44,800 SF  
TOTAL EXISTING HARDSCAPE AREA: 8,151 SF  
TOTAL HARDSCAPE AREA TO BE REPLACED: 2,577 SF  
TOTAL PROJECT AREA: 1.9 ACRES

## DEFERRED SUBMITTALS

- PLAY EQUIPMENT FOOTINGS - FOOTING ENGINEERING LC101/LC402
- BALL NET POSTS AND ATTACHMENTS LC102/LC504

**DIG ALERT**  
DIAL TOLL FREE



AT LEAST 2 DAYS BEFORE YOU DIG

**GROVE PARK FIELD AND PLAYGROUND RENOVATIONS**  
 2828 Martin Luther King Jr. Way, Berkeley, CA 94703

TITLE SHEET

NO.	REVISION	DATE

COB SPECIFICATION NO. 22-11538-C  
CITY PLAN NO. 8256 FILE NO. 406-218

**PROJECT MANAGER**  
JULIAN SIMEONI

**DRAWN BY** YI      **CHECKED BY** JS

**DATE**  
NOVEMBER 22, 2022

**PROJECT NUMBER**  
2211-01-RC21

**SHEET**  
G001

BID SET

**STANDARD CONDITIONS**

The following conditions, as well as all other applicable provisions of the Zoning Ordinance, apply to this Permit:

- Conditions Shall be Printed on Plans**  
The conditions of this Permit shall be printed on the *second* sheet of each plan set submitted for a building permit pursuant to this Use Permit, under the title 'Use Permit Conditions'. *Additional sheets* may also be used if the *second* sheet is not of sufficient size to list all of the conditions. The sheet(s) containing the conditions shall be of the same size as those sheets containing the construction drawings; 8-1/2" by 11" sheets are not acceptable.
- Applicant Responsible for Compliance with Conditions**  
The applicant shall ensure compliance with all of the following conditions, including submittal to the project planner of required approval signatures at the times specified. Failure to comply with any condition may result in construction being stopped, issuance of a citation, and/or modification or revocation of the Use Permit.
- Uses Approved Deemed to Exclude Other Uses (BMC Section 23B.56.010)**  
A. This Permit authorizes only those uses and activities actually proposed in the application, and excludes other uses and activities.  
B. Except as expressly specified herein, this Permit terminates all other uses at the location subject to it.
- Modification of Permits (BMC Section 23B.56.020)**  
No change in the use or structure for which this Permit is issued is permitted unless the Permit is modified by the Zoning Officer.
- Plans and Representations Become Conditions (BMC Section 23B.56.030)**  
Except as specified herein, the site plan, floor plans, building elevations and/or any additional information or representations, whether oral or written, indicating the proposed structure or manner of operation submitted with an application or during the approval process are deemed conditions of approval.
- Subject to All Applicable Laws and Regulations (BMC Section 23B.56.040)**  
The approved use and/or construction is subject to, and shall comply with, all applicable City Ordinances and laws and regulations of other governmental agencies. Prior to construction, the applicant shall identify and secure all applicable permits from the Building and Safety Division, Public Works Department and other affected City divisions and departments.
- Exercised Permit for Use Survives Vacancy of Property (BMC Section 23B.56.080)**  
Once a Permit for a use is exercised and the use is established, that use is legally recognized, even if the property becomes vacant, except as set forth in Standard Condition #8, below.

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- Exercise and Lapse of Permits (BMC Section 23B.56.100)**  
A. A permit for the use of a building or a property is exercised when, if required, a valid City business license has been issued, and the permitted use has commenced on the property.  
B. A permit for the construction of a building or structure is deemed exercised when a valid City building permit, if required, is issued, and construction has lawfully commenced.  
C. A permit may be declared lapsed and of no further force and effect if it is not exercised within one year of its issuance, except that permits for construction or alteration of structures or buildings may not be declared lapsed if the permittee has: (1) applied for a building permit; or, (2) made substantial good faith efforts to obtain a building permit and begin construction, even if a building permit has not been issued and/or construction has not begun.
- Indemnification Agreement**  
The applicant shall hold harmless, defend, and indemnify the City of Berkeley and its officers, agents, and employees against any and all liability, damages, claims, demands, judgments or other losses (including without limitation, attorney's fees, expert witness and consultant fees and other litigation expenses), referendum or initiative relating to, resulting from or caused by, or alleged to have resulted from, or caused by, any action or approval associated with the project. The indemnity includes without limitation, any legal or administrative challenge, referendum or initiative filed or prosecuted to overturn, set aside, stay or otherwise rescind any or all approvals granted in connection with the Project, any environmental determination made for the project and granting any permit issued in accordance with the project. This indemnity includes, without limitation, payment of all direct and indirect costs associated with any action specified herein. Direct and indirect costs shall include, without limitation, any attorney's fees, expert witness and consultant fees, court costs, and other litigation fees. City shall have the right to select counsel to represent the City at Applicant's expense in the defense of any action specified in this condition of approval. City shall take reasonable steps to promptly notify the Applicant of any claim, demand, or legal actions that may create a claim for indemnification under these conditions of approval.

**ADDITIONAL CONDITIONS IMPOSED BY THE ZONING OFFICER**  
Pursuant to BMC Section 23B.28.050.D, the Zoning Officer attaches the following additional conditions to this Permit:

**Prior to Submittal of Any Building Permit:**

- Project Liaison.** The applicant shall include in all building permit plans and post onsite the name and telephone number of an individual empowered to manage construction-related complaints generated from the project. The individual's name, telephone number, and responsibility for the project shall be posted at the project site for the duration of the project in a location easily visible to the public. The individual shall record all complaints received and actions taken in response, and submit written reports of such complaints and actions to the project planner on a weekly basis. **Please designate the name of this individual below:**

**Project Liaison** WENDY WELLBROCK (510) 981-6346  
Name Phone #

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**Standard Construction-related Conditions Applicable to all Projects:**

- Transportation Construction Plan.** The applicant and all persons associated with the project are hereby notified that a Transportation Construction Plan (TCP) is required for all phases of construction, particularly for the following activities:
  - Alterations, closures, or blockages to sidewalks, pedestrian paths or vehicle travel lanes (including bicycle lanes);
  - Storage of building materials, dumpsters, debris anywhere in the public ROW;
  - Provision of exclusive contractor parking on-street; or
  - Significant truck activity.

The applicant shall secure the City Traffic Engineer's approval of a TCP. Please contact the Office of Transportation at 981-7010, or 1947 Center Street, and ask to speak to a traffic engineer. In addition to other requirements of the Traffic Engineer, this plan shall include the locations of material and equipment storage, trailers, worker parking, a schedule of site operations that may block traffic, and provisions for traffic control. The TCP shall be consistent with any other requirements of the construction phase.

Contact the Permit Service Center (PSC) at 1947 Center Street or 981-7500 for details on obtaining Construction/No Parking Permits (and associated signs and accompanying dashboard permits). Please note that the Zoning Officer and/or Traffic Engineer may limit off-site parking of construction-related vehicles if necessary to protect the health, safety or convenience of the surrounding neighborhood. A current copy of this Plan shall be available at all times at the construction site for review by City Staff.
- Construction activity shall be limited to between the hours of 8:00 a.m. and 6:00 p.m. on Monday through Friday, and between 9:00 a.m. and noon on Saturday. No construction-related activity shall occur on Sunday or on any Federal Holiday.
- If underground utilities leading to adjacent properties are uncovered and/or broken, the contractor involved shall immediately notify the Public Works Department and the Building & Safety Division, and carry out any necessary corrective action to their satisfaction.
- Subject to approval of the Public Works Department, the applicant shall repair any damage to public streets and/or sidewalks by construction vehicles traveling to or from the project site.
- All piles of debris, soil, sand, or other loose materials shall be covered at night and during rainy weather with plastic at least one-eighth millimeter in thickness and secured to the ground.
- All active construction areas shall be watered at least twice daily, and all piles of debris, soil, sand or other loose materials shall be watered or covered.
- Trucks hauling debris, soil, sand, or other loose materials shall be covered or required to maintain at least two feet of board.
- Public streets shall be swept (preferably with water sweepers) of all visible soil material carried from the site.

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- The applicant shall establish and maintain drainage patterns that do not adversely affect adjacent properties and rights-of-way.
- The applicant shall ensure that all excavation takes into account surface and subsurface waters and underground streams so as not to adversely affect adjacent properties and rights-of-way.
- Any construction during the wet season shall require submittal of a soils report with appropriate measures to minimize erosion and landslides, and the developer shall be responsible for following these and any other measures required by the Building and Safety Division and the Public Works Department.
- Halt Work/Unanticipated Discovery of Tribal Cultural Resources.** In the event that cultural resources of Native American origin are identified during construction, all work within 50 feet of the discovery shall be redirected. The project applicant and project construction contractor shall notify the City Planning Department within 24 hours. The City will again contact any tribes who have requested consultation under AB 52, as well as contact a qualified archaeologist, to evaluate the resources and situation and provide recommendations. If it is determined that the resource is a tribal cultural resource and thus significant under CEQA, a mitigation plan shall be prepared and implemented in accordance with State guidelines and in consultation with Native American groups. If the resource cannot be avoided, additional measures to avoid or reduce impacts to the resource and to address tribal concerns may be required.
- Archaeological Resources (Ongoing throughout demolition, grading, and/or construction).** Pursuant to CEQA Guidelines Section 15064.5(f), "provisions for historical or unique archaeological resources accidentally discovered during construction" should be instituted. Therefore:
  - In the event that any prehistoric or historic subsurface cultural resources are discovered during ground disturbing activities, all work within 50 feet of the resources shall be halted and the project applicant and/or lead agency shall consult with a qualified archaeologist, historian or paleontologist to assess the significance of the find.
  - If any find is determined to be significant, representatives of the project proponent and/or lead agency and the qualified professional would meet to determine the appropriate avoidance measures or other appropriate measure, with the ultimate determination to be made by the City of Berkeley. All significant cultural materials recovered shall be subject to scientific analysis, professional museum curation, and/or a report prepared by the qualified professional according to current professional standards.
  - In considering any suggested measure proposed by the qualified professional, the project applicant shall determine whether avoidance is necessary or feasible in light of factors such as the uniqueness of the find, project design, costs, and other considerations.
  - If avoidance is unnecessary or infeasible, other appropriate measures (e.g., data recovery) shall be instituted. Work may proceed on other parts of the project site while mitigation measures for cultural resources is carried out.
  - If significant materials are recovered, the qualified professional shall prepare a report on the findings for submittal to the Northwest Information Center.

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- Human Remains (Ongoing throughout demolition, grading, and/or construction).** In the event that human skeletal remains are uncovered at the project site during ground-disturbing activities, all work shall immediately halt and the Alameda County Coroner shall be contacted to evaluate the remains, and following the procedures and protocols pursuant to CEQA Guidelines Section 15064.5 (e)(1). If the County Coroner determines that the remains are Native American, the City shall contact the California Native American Heritage Commission (NAHC), pursuant to Health and Safety Code Section 7050.5(c), and all excavation and site preparation activities shall cease within a 50-foot radius of the find until appropriate arrangements are made. If the agencies determine that avoidance is not feasible, then an alternative plan shall be prepared with specific steps and timeframe required to resume construction activities. Monitoring, data recovery, determination of significance and avoidance measures (if applicable) shall be completed expeditiously.
- Paleontological Resources (Ongoing throughout demolition, grading, and/or construction).** In the event of an unanticipated discovery of a paleontological resource during construction, excavations within 50 feet of the find shall be temporarily halted or diverted until the discovery is examined by a qualified paleontologist (per Society of Vertebrate Paleontology standards [SVP 1995,1996]). The qualified paleontologist shall document the discovery as needed, evaluate the potential resource, and assess the significance of the find. The paleontologist shall notify the appropriate agencies to determine procedures that would be followed before construction is allowed to resume at the location of the find. If the City determines that avoidance is not feasible, the paleontologist shall prepare an excavation plan for mitigating the effect of the project on the qualities that make the resource important, and such plan shall be implemented. The plan shall be submitted to the City for review and approval.

**Prior to Issuance of Occupancy Permit or Final Inspection:**  
26. All construction at the subject property shall substantially conform to the approved Use Permit drawings or to modifications approved by the Zoning Officer.

27. All landscape, site and architectural improvements shall be completed per the attached approved drawings dated August 26, 2020.

**At All Times (Operation):**  
28. All exterior lighting shall be energy efficient where feasible; and shielded and directed downward and away from property lines to prevent excessive glare beyond the subject property.

29. Noise and exterior lighting shall be controlled so as to prevent verified complaints from the surrounding neighborhood. This shall include noise created by employees working on the premises before or after patrons arrive.

30. **Drainage Patterns.** The applicant shall establish and maintain drainage patterns that do not adversely affect adjacent properties and rights-of-way. Drainage plans shall be submitted for approval of the Building & Safety Division and Public Works Department, if required.

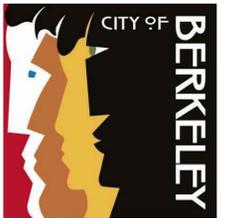
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**GROVE PARK FIELD AND PLAYGROUND RENOVATIONS**  
2828 Martin Luther King Jr. Way, Berkeley, CA 94703  
**ADMINISTRATIVE USE PERMIT CONDITIONS OF APPROVAL**

NO.	REVISION	DATE
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COB SPECIFICATION NO. 22-11538-C  
CITY PLAN NO. 8256 FILE NO. 406-218  
**PROJECT MANAGER**  
JULIAN SIMEONI  
**DRAWN BY** YI **CHECKED BY** JS  
**DATE**  
**NOVEMBER 22, 2022**  
**PROJECT NUMBER**  
2211-01-RC21

**SHEET**  
**G002**

BID SET

## ABBREVIATIONS

AB	AGGREGATE BASE OR ANCHOR BOLT	LH	LEFT HAND
ABV	ABOVE	LOC	LOCATION
AC	ASPHALTIC CONCRETE	LP	LOW POINT
ACP	ASPHALTIC CONCRETE PAVING	LS	LAG SCREW
ADJ	ADJACENT	LT	LEFT
AGG	AGGREGATE	MAS	MASONRY
ALT	ALTERNATE	MATL	MATERIAL
AP	ANGLE POINT	MAX	MAXIMUM
APPROX	APPROXIMATE	MED	MEDIUM
ARCH	ARCHITECT (URAL)	MFG	MANUFACTURING
BEL	BELOW	MFR	MANUFACTURE(R)
BLDG	BUILDING	MIN	MINIMUM
BLK	BLOCK	MISC	MISCELLANEOUS
BOT	BOTTOM	ML	MAINLINE
BOW	BACK OF WALK	(N)	NEW
BR	BOTTOM OF RAMP	NIC	NOT IN CONTRACT
BRG	BEARING	NO	NUMBER
BS	BOTTOM OF STEP	NOM	NOMINAL
CB	CATCH BASIN	NTS	NOT TO SCALE
CF	CUBIC FOOT	OC	ON CENTER
CI	CAST IRON	OCEW	ON CENTER EACH WAY
CIP	CAST IN PLACE	OD	OUTSIDE DIAMETER
C/L	CENTERLINE	O.F.C.I.	OWNER FURNISHED, CONTRACTOR INSTALLED
CL	CENTERLINE	OH	OVERHEAD
CLR	CLEAR	OPP	OPPOSITE
CMU	CONCRETE MASONRY UNIT	OPT	OPTIONAL
CO	CLEAN OUT	PA	PLANTER AREA
COL	COLUMN	PC	POINT OF CURVE
CONC	CONCRETE	PERF	PERFORATE (D)
CONST	CONSTRUCTION	PERP	PERPENDICULAR
CONT	CONTINUOUS, CONTINUE	PFE	PUBLIC FACILITIES EASEMENT
CP	CENTER POINT	PL	PROPERTY LINE
CR	CURB RETURN	POB	POINT OF BEGINNING
CTC	CENTER TO CENTER	POC	POINT OF CONNECTION
CTR	CENTER	PRC	POINT OF REVERSE CURVE
DAS	DIRECTION AS SHOWN	PROP	PROPOSED
DET	DETAIL	PSI	POUNDS PER SQUARE INCH
DF	DRINKING FOUNTAIN	PT	POINT, POINT OF TANGENCY
DI	DRAIN INLET	PTDF	PRESSURE TREATED DOUGLAS FIR
DIA	DIAMETER	PTL	PRESSURE TREATED LUMBER
DIAG	DIAGONAL	PUE	PUBLIC UTILITIES EASEMENT
DIM	DIMENSION	PVC	POLYVINYL CHLORIDE
DS	DOWN SPOUT	R, RAD	RADIUS
DWG	DRAWING	RDWD	REDWOOD
EA	EACH	REBAR	REINFORCING BAR
EJ	EXPANSION JOINT	REF	REFERENCE
ELECT	ELECTRICAL	REM	REMOVE
ELEV	ELEVATION	REQ'D	REQUIRED
ENCL	ENCLOSURE	REV	REVISION(S), REVISED
EQ	EQUAL	RIM	RIM ELEVATION OF STRUCTURE
EQPT	EQUIPMENT	RH	RIGHT HAND
ESMT	EASEMENT	ROW	RIGHT OF WAY
EFW	ENGINEERED WOOD FIBER	RT	RIGHT
EX	EXISTING	S	SLOPE
EXIST	EXISTING	SCH	SCHEDULE
(E)	EXISTING	SD	STORM DRAIN
FAB	FABRICATION	SF	SQUARE FEET
FBO	FURNISHED BY OTHERS	SHT	SHEET
FF	FINISHED FLOOR	SIM	SIMILAR
FFE	FINISHED FLOOR ELEVATION	SL	SLOPE
FG	FINISHED GRADE	SOG	SLAB ON GRADE
FIN	FINISH (ED)	SPEC	SPECIFICATION(S)
FL	FLOWLINE	SQ	SQUARE
FOC	FACE OF CONCRETE	SS	SANITARY SEWER
FOF	FACE OF FINISH	S/S	STAINLESS STEEL
FOM	FACE OF MASONRY	ST	STREET
FOS	FACE OF STEP	STA	STATION
FND	FOUNDATION	STD	STANDARD
FS	FINISHED SURFACE	STL	STEEL
FST	FINISHED SURFACE TURF	STRUC	STRUCTURE/ STRUCTURAL
FTG	FOOTING	SUB	SUBGRADE
FUT	FUTURE	SURF	SURFACE
GA	GAGE, GAUGE	SWCL	SIDEWALK CENTERLINE
GB	GRADE BREAK	SYS	SYSTEM
GKT	GASKET	SYN	SYNTHETIC
GLV	GALVANIZED	TBC	TOP BACK OF CURB
GPH	GALLONS PER HOUR	TC	TOP OF CURB
GPM	GALLONS PER MINUTE	TF	TOP OF FOOTING
GR	GRATE	TG	TOP OF GRATE
HB	HOSE BIB	TP	TANGENT POINT
HC	HANDICAPPED	TR	TOP OF RAMP
HCAP	HANDICAPPED	TS	TOP OF STEP
HDB	HEADBOARD	TW	TOP OF WALL
HEX	HEXAGONAL	TYP	TYPICAL
HOR	HORIZONTAL	UON	UNLESS OTHERWISE NOTED
HP	HIGH POINT	VAR	VARIES
HT	HEIGHT	V.I.F.	VERIFY IN FIELD
ID	INSIDE DIAMETER	VERT	VERTICAL
INT	INTERSECTION	W	WATER
INV	INVERT	W/O	WITHOUT
JT	JOINT	@	AT
L	LENGTH	¢	CENTERLINE
LB	LAG BOLT	∅	DIAMETER
		SF	SQUARE FEET
		SUB	SUB GRADE ELEVATION

## GENERAL CONSTRUCTION NOTES

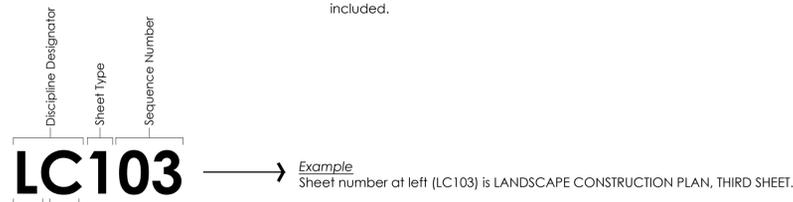
- PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL VERIFY ALL JOIN/EDGE CONDITIONS FOR GRADING, DRAINAGE, AND UNDERGROUND FACILITIES, INCLUDING LOCATION AND ELEVATION OF EXISTING FACILITIES AT CROSSINGS WITH PROPOSED UNDERGROUND FACILITIES. IF CONDITIONS DIFFER FROM THOSE SHOWN ON THE PLANS, THE CONTRACTOR SHALL NOTIFY THE CITY AND SHALL NOT BEGIN CONSTRUCTION UNTIL THE CHANGED CONDITIONS HAVE BEEN EVALUATED AND RESOLVED.
- THE CONTRACTOR SHALL BECOME FAMILIAR WITH THE PLANS AND SITE CONDITIONS PRIOR TO BEGINNING WORK. SHOULD CONFLICTING INFORMATION BE FOUND ON THE PLANS, THE CONTRACTOR SHALL NOTIFY AND RECEIVE DIRECTION FROM THE CITY BEFORE PROCEEDING WITH THE WORK IN QUESTION.
- ONLY "APPROVED" STAMPED AND SIGNED DRAWINGS SHALL BE USED FOR THE CONSTRUCTION OF THIS PROJECT.
- NO CHANGES OR MODIFICATIONS TO THE PLANS SHALL BE MADE WITHOUT THE PRIOR WRITTEN APPROVAL OF THE CITY.
- NO TREES, OTHER THAN THOSE INDICATED ON THE DRAWINGS, SHALL BE REMOVED WITHOUT PRIOR APPROVAL OF THE CITY.
- ALL NUMERIC AND WRITTEN DIMENSIONS SHALL HAVE PRECEDENCE OVER ALL SCALE DIMENSIONS.
- DETAILS AND NOTES ON THE DRAWINGS TAKE PRECEDENCE OVER TYPICAL DETAILS AND GENERAL NOTES.
- WRITTEN SPECIFICATIONS TAKE PRECEDENCE OVER DRAWINGS.
- ALL CONSTRUCTION SHALL CONFORM TO THE APPROVED PLANS AND SPECIFICATIONS.
- CONTRACTOR SHALL TAKE ALL CARE TO PREVENT DISRUPTION OF PROJECT SITE IN AREAS OUTSIDE CONSTRUCTION ZONE.
- THE CONTRACTOR SHALL NOTIFY THE CITY AT LEAST (72) HOURS BEFORE COMMENCING WORK.
- PROPOSED DEVIATIONS FROM THE PLANS MUST BE SUBMITTED TO THE CITY FOR REVIEW AND APPROVAL, INCLUDING FIELD REVISIONS REQUESTED BY THE CITY INSPECTOR.
- THE CONTRACTOR SHALL EMPLOY ALL LABOR, EQUIPMENT, AND METHODS REQUIRED TO PREVENT THEIR OPERATIONS FROM PRODUCING DUST IN AMOUNTS DAMAGING TO PROPERTY, CULTIVATED OR NATIVE VEGETATION, AND DOMESTIC AND NON-DOMESTIC ANIMALS OR CAUSING A NUISANCE TO PERSONS OCCUPYING BUILDINGS IN THE VICINITY OF THE JOB SITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE CAUSED BY DUST RESULTING FROM THEIR OPERATIONS.
- ALL STREETS, ALLEYS, VEHICULAR WAYS, SIDEWALKS, AND HAUL ROUTES SHALL BE KEPT CLEAN AND CLEAR OF DEBRIS, DIRT AND DUST IN A MANNER ACCEPTABLE TO THE CITY. AT A MINIMUM, THESE AREAS SHALL BE CLEANED AT THE END OF EACH WORK DAY. FAILURE TO DO SO WILL RESULT IN A "STOP WORK" NOTICE. SAID NOTICE WILL NOT BE RELEASED UNTIL THE AREA HAS BEEN CLEANED TO THE SATISFACTION OF THE CITY. THE FLUSHING OF DIRT OR DEBRIS INTO STORM DRAIN OR SANITARY SEWER FACILITIES IS NOT PERMITTED.
- CONTRACTOR SHALL NOT INTERRUPT ANY SERVICES OR DISRUPT THE OPERATION OF ADJACENT BUSINESSES, RESIDENTIAL AREAS OR ONSITE FACILITIES OUTSIDE THE LIMIT OF WORK LINE.
- CONSTRUCTION LINE AND GRADE STAKES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OR PROPER RESETTING OF ALL EXISTING MONUMENTS AND OTHER SURVEY MARKERS. ANY SURVEY MONUMENTS DESTROYED BY THE CONTRACTOR SHALL BE REPLACED IN ACCORDANCE WITH THE STATE LAND SURVEYORS ACT AT THE CONTRACTOR'S EXPENSE.
- ALL PROTECTIVE DEVICES TO BE INSTALLED BY THE CONTRACTOR, AND SHALL BE IN PLACED AT THE END OF EACH WORK DAY. A SAFE PEDESTRIAN PATH OF TRAVEL SHALL BE PROVIDED AT ALL TIMES TO AND FROM BUILDING ENTRANCES TO PARKING FACILITIES. COORDINATE PEDESTRIAN WALK CLOSURES WITH CITY PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL REFER TO MATERIALS SPECIFICATIONS THROUGHOUT THE APPROVED PLAN SET AND SPECIFICATIONS. ANY SUBSTITUTIONS OF THE MATERIALS SPECIFIED IN THESE DOCUMENTS SHALL REQUIRE WRITTEN APPROVAL FROM CITY.
- DURING THE COURSE OF WORK, THE CONTRACTOR SHALL BE RESPONSIBLE FOR CALLING THE CITY FOR TESTING AND INSPECTION 24 HOURS IN ADVANCE. WORK NOT PROPERLY TESTED AND INSPECTED WILL BE SUBJECT TO REJECTION.
- WORK IN AND ALONG PUBLIC STREETS AND PARKING LOTS, ONCE BEGUN, SHALL PROCEED TO COMPLETION WITHOUT DELAY SO AS TO PROVIDE MINIMUM INCONVENIENCE TO THE PUBLIC.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERIFICATION OF LOCATION AND DEPTH OF ALL EXISTING UTILITIES IN THE FIELD PRIOR TO CONSTRUCTION AND FOR PROTECTING SAME DURING CONSTRUCTION. BRING ANY CONFLICTS WITH NEW IMPROVEMENTS IMMEDIATELY TO THE ATTENTION OF THE CITY. ALL UTILITIES SHALL BE PROTECTED AND REPAIRED BY THE CONTRACTOR IF DAMAGED AT NO ADDITIONAL COST TO THE CITY.
- NOTIFY UNDERGROUND SERVICE ALERT (USA) TOLL FREE AT 811 A MINIMUM OF (48) WORKING HOURS PRIOR TO THE START OF CONSTRUCTION.
- CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR NOTIFICATION OF ALL UTILITY COMPANIES THAT ARE NOT A USA MEMBER A MINIMUM OF (48) HOURS PRIOR TO THE BEGINNING OF WORK.
- ENTRANCE TO THE SITE AND LAY DOWN AREA DURING CONSTRUCTION SHALL BE SPECIFIED BY THE CITY OF BERKELEY.
- CONTRACTOR SHALL PROVIDE DE-WATERING IF IT IS REQUIRED, AND SHALL COMPLY WITH ALL REQUIREMENTS OF THE REGIONAL WATER QUALITY CONTROL BOARD AND OTHER APPLICABLE AGENCIES.
- UPON COMPLETION OF THE WORK, CONTRACTOR TO FURNISH TO THE CITY 'RECORD' DRAWINGS OF THE PROJECT, WHICH SHALL BE REVIEWED PRIOR TO THE ACCEPTANCE OF THE PROJECT. THE COMPLETE RECORD DRAWINGS SET SHALL BE CURRENT WITH ALL CHANGES AND DEVIATIONS REDLINED AS A PRECONDITION TO THE FINAL PROGRESS PAYMENT APPROVAL AND/OR FINAL CITY ACCEPTANCE.
- ALL CONSTRUCTION SHALL CONFORM TO LATEST EDITION OF CALIFORNIA BUILDING CODE TITLE 24.
- ALL CONSTRUCTION ACTIVITIES SHALL BE LIMITED TO MONDAY THROUGH FRIDAY OF THE CALENDAR WEEK. NO WEEKEND WORK SHALL BE PERMITTED WITHOUT THE PRIOR APPROVAL OF THE CITY'S AUTHORIZED REPRESENTATIVE.
- THE CONTRACTOR IS TO ENSURE ALL APPLICABLE PERMITS ARE IN PLACE (INCLUDING ANY DEFERRED SUBMITTALS / PERMITS) BEFORE COMMENCING CONSTRUCTION.
- THE CONTRACTOR IS TO ENSURE THAT ANY WORK IN THE PUBLIC RIGHT-OF-WAY THAT IS DAMAGED DURING CONSTRUCTION IS TO BE REPLACED PER THE CITY OF BERKELEY STANDARD DETAILS AND SPECIFICATIONS AT NO ADDITIONAL COST TO THE CITY.

## KEY TO SHEET NUMBERING

DRAWING SHEET NUMBERING AND ORGANIZATION IS ADAPTED FROM THE UNITED STATES NATIONAL CAD STANDARD.

DISCIPLINE DESIGNATORS - LEVEL 1 (Partial List)	DISCIPLINE DESIGNATORS - LEVEL 2 (Partial List)	SHEET TYPES
G General	D Demolition	0 General: Symbol legend, abbreviations, general notes.
R Resource (Existing Conditions)	S Site	1 Plans
H Hazardous Materials	G Grading	2 Elevations
V Survey/Mapping	E Erosion Control	3 Sections
B Geotechnical	U Utilities	4 Large Scale Drawings: plans, elevations, sections (not details)
C Civil	C Construction	5 Details
L Landscape	I Irrigation	6 Schedules and Diagrams
S Structural	P Planting	7 User Defined
A Architectural	L Lighting	8 User Defined
E Electrical	W Stormwater	9 3D Drawings: isometric, perspective, photos
Z Contractor/Shop Drawings	H Horizontal Control	

Dash is substituted when Level 2 is not included.



## TYPICAL SYMBOL LEGEND

SYMBOL	DESCRIPTION
	DETAIL CALLOUT, WHERE 'X' = DETAIL NUMBER, AND 'Y' = PAGE NUMBER
	SECTION CALLOUT, WHERE 'X' = SECTION NUMBER AND 'Y' = PAGE NUMBER
	ELEVATION CALLOUT, WHERE 'X' = ELEVATION NUMBER AND 'Y' = PAGE NUMBER
	REFERENCE NOTE CALLOUT
	BREAKLINE
	CENTERLINE
	LIMIT OF WORK LINE

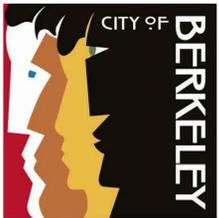
NOTE: DISCIPLINE-SPECIFIC SYMBOLS ARE SHOWN ON THEIR RESPECTIVE SHEETS.



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**GROVE PARK FIELD AND PLAYGROUND RENOVATIONS**  
2828 Martin Luther King Jr. Way, Berkeley, CA 94703  
**GENERAL CONSTRUCTION NOTES AND ABBREVIATIONS**

NO.	REVISION	DATE

COB SPECIFICATION NO. 22-11538-C  
CITY PLAN NO. 8256 FILE NO. 406-218  
**PROJECT MANAGER**  
JULIAN SIMEONI  
**DRAWN BY** YI **CHECKED BY** JS  
**DATE**  
**NOVEMBER 22, 2022**  
**PROJECT NUMBER**  
2211-01-RC21

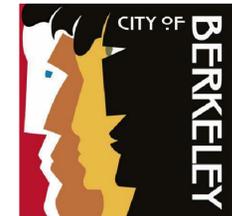
**SHEET**  
**G003**

BID SET



*Stephen B. Webster*

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**GROVE PARK FIELD AND  
PLAYGROUND RENOVATIONS**  
2828 Martin Luther King Jr. Way, Berkeley, CA 94703  
**EXISTING CONDITIONS/  
TOPOGRAPHIC SURVEY**

NO.	REVISION	DATE

COB SPECIFICATION NO. 22-11538-C  
CITY PLAN NO. 8256 FILE NO. 406-218

**PROJECT MANAGER**  
JS

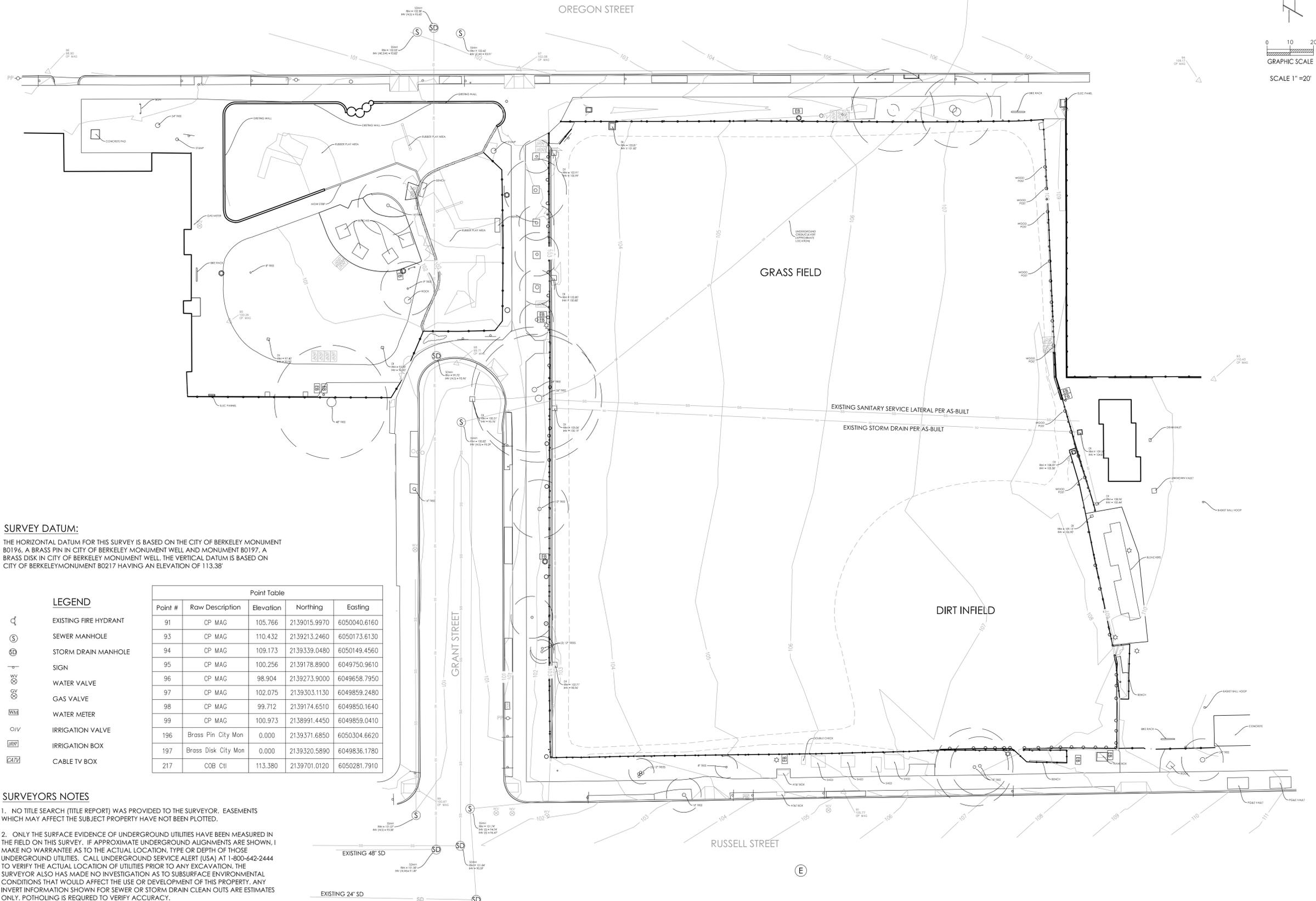
**DRAWN BY**      **CHECKED BY**

**DATE**  
NOVEMBER 22, 2022

**PROJECT NUMBER**  
2211-01-RC21

**SHEET**  
V101

BID SET



**SURVEY DATUM:**

THE HORIZONTAL DATUM FOR THIS SURVEY IS BASED ON THE CITY OF BERKELEY MONUMENT B0196, A BRASS PIN IN CITY OF BERKELEY MONUMENT WELL AND MONUMENT B0197, A BRASS DISK IN CITY OF BERKELEY MONUMENT WELL. THE VERTICAL DATUM IS BASED ON CITY OF BERKELEY MONUMENT B0217 HAVING AN ELEVATION OF 113.38'

**LEGEND**

- EXISTING FIRE HYDRANT
- SEWER MANHOLE
- STORM DRAIN MANHOLE
- SIGN
- WATER VALVE
- GAS VALVE
- WATER METER
- IRRIGATION VALVE
- IRRIGATION BOX
- CABLE TV BOX

Point #	Raw Description	Elevation	Northing	Easting
91	CP MAG	105.766	2139015.9970	6050040.6160
93	CP MAG	110.432	2139213.2460	6050173.6130
94	CP MAG	109.173	2139339.0480	6050149.4560
95	CP MAG	100.256	2139178.8900	6049750.9610
96	CP MAG	98.904	2139273.9000	6049658.7950
97	CP MAG	102.075	2139303.1130	6049859.2480
98	CP MAG	99.712	2139174.6510	6049850.1640
99	CP MAG	100.973	2138991.4450	6049859.0410
196	Brass Pin City Mon	0.000	2139371.6850	6050304.6620
197	Brass Disk City Mon	0.000	2139320.5890	6049836.1780
217	COB CHI	113.380	2139701.0120	6050281.7910

**SURVEYORS NOTES**

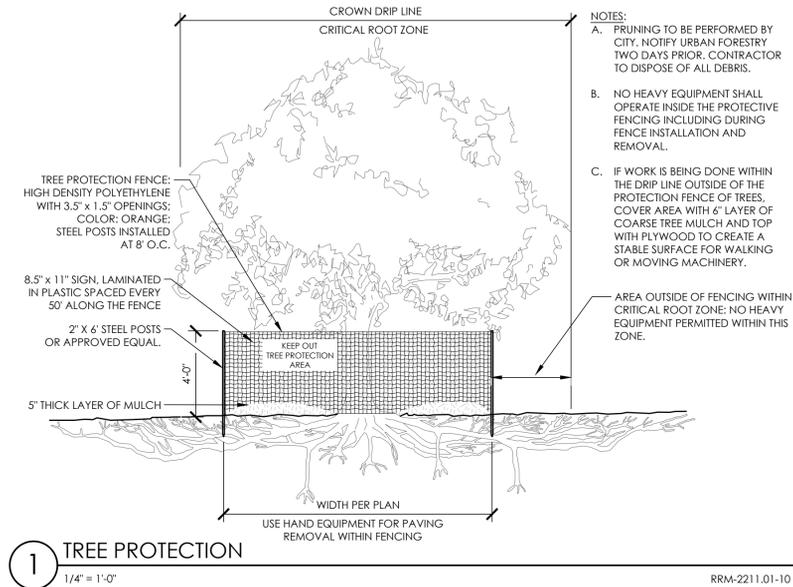
- NO TITLE SEARCH (TITLE REPORT) WAS PROVIDED TO THE SURVEYOR. EASEMENTS WHICH MAY AFFECT THE SUBJECT PROPERTY HAVE NOT BEEN PLOTTED.
- ONLY THE SURFACE EVIDENCE OF UNDERGROUND UTILITIES HAVE BEEN MEASURED IN THE FIELD ON THIS SURVEY. IF APPROXIMATE UNDERGROUND ALIGNMENTS ARE SHOWN, I MAKE NO WARRANTY AS TO THE ACTUAL LOCATION, TYPE OR DEPTH OF THOSE UNDERGROUND UTILITIES. CALL UNDERGROUND SERVICE ALERT (USA) AT 1-800-642-2444 TO VERIFY THE ACTUAL LOCATION OF UTILITIES PRIOR TO ANY EXCAVATION. THE SURVEYOR ALSO HAS MADE NO INVESTIGATION AS TO SUBSURFACE ENVIRONMENTAL CONDITIONS THAT WOULD AFFECT THE USE OR DEVELOPMENT OF THIS PROPERTY. ANY INVERT INFORMATION SHOWN FOR SEWER OR STORM DRAIN CLEAN OUTS ARE ESTIMATES ONLY. POTHOLES IS REQUIRED TO VERIFY ACCURACY.
- IT WILL BE THE ARCHITECT'S RESPONSIBILITY TO VERIFY SETBACK AND HEIGHT RESTRICTIONS WITH THE LOCAL GOVERNING AGENCY.

DATE OF SURVEY 03/19/21



REFERENCE NOTES - PLAYGROUND

SYMBOL	DEMOLITION DESCRIPTION
D-01	REMOVE AND DISPOSE OF ALL RUBBER SURFACING AND ASSOCIATED BASE.
D-02	REMOVE AND DISPOSE OF EXISTING PARK SIGN, INCLUDING POSTS AND FOOTINGS. REPLACE WITH NEW SIGN (BY CITY).
D-03	REMOVE AND DISPOSE OF EXISTING DRINKING FOUNTAIN.
D-04	REMOVE AND DISPOSE OF EXISTING PICNIC TABLES, GRILLS, AND TRASH CANS. PATCH ANY DAMAGED CONCRETE.
D-05	REMOVE AND DISPOSE OF ALL PLAY EQUIPMENT, INCLUDING FOOTINGS.
D-06	REMOVE EXISTING BENCH SEAT AND POSTS AND TRANSPORT TO CITY CORP YARD. REMOVE AND DISPOSE OF CONCRETE FOOTINGS.
D-07	REMOVE AND DISPOSE OF EXISTING VALVES AND VALVE BOXES.
D-08	REMOVE AND DISPOSE OF EXISTING ENGINEERED WOOD FIBER.
SYMBOL	EXISTING TO REMAIN DESCRIPTION
EX-01	NOT USED
EX-02	EXISTING ASPHALT/CONCRETE PAVING, PROTECT IN PLACE.
EX-03	EXISTING CONCRETE WALL, RETAIN AND PROTECT IN PLACE.
EX-04	EXISTING CONCRETE EDGE, PROTECT IN PLACE.
EX-05	RETAIN AND PROTECT EXISTING FABRICATED METAL FENCE AND CONCRETE EDGE.
EX-06	EXISTING IRRIGATION UTILITIES, RETAIN AND PROTECT IN PLACE.
EX-07	EXISTING LIGHT POLE, POST AND UTILITY BOX, PROTECT IN PLACE.
EX-08	EXISTING SIGNAGE, REPLACE POLE AND RETAIN AND REUSE SIGN.
EX-09	EXISTING ELECTRIC POLE, PROTECT IN PLACE. CAREFULLY REMOVE CONCRETE AROUND TO PROTECT FOOTING IN PLACE.
EX-10	EXISTING BOULDER, PROTECT IN PLACE.



REFERENCE NOTES - FIELD

SYMBOL	DEMOLITION DESCRIPTION
D-101	REMOVE AND DISPOSE OF EXISTING ASPHALT AND CONCRETE PAVING.
D-102	EXISTING ASH TREE. GRIND STUMPS AND REMOVE STUMPS AS SPECIFIED.
D-103	REMOVE AND DISPOSE OF EXISTING WOOD SHEDS.
D-104	REMOVE AND SALVAGE EXISTING METAL SHEDS FOR RELOCATION. SEE LC101 FOR LOCATION.
D-105	EXISTING PEAR TREE. GRIND STUMPS AND REMOVE STUMPS AS SPECIFIED.
D-106	REMOVE AND DISPOSE OF ALL EXISTING BACKSTOP INCLUDING POSTS, FOOTINGS, RAILS, AND FABRIC.
D-107	REMOVE AND DISPOSE OF EXISTING DUGOUTS INCLUDING POSTS, FENCE/INC FENCE FOOTINGS, CONCRETE STEPS, PAVING AND BENCHES, NEATLY SAWCUT EXISTING PAVEMENT WHERE EXISTING PAVEMENT IS TO BE RETAINED.
D-108	REMOVE AND DISPOSE OF LOW METAL POST AND FOOTING.
D-109	REMOVE APPROX. 15 LF (10 LF NORTH AND 5 LF SOUTH) CURB AND GUTTER AND 3 LF OF DAMAGED CURB DRAIN. PROTECT EXISTING CATCH BASIN IN PLACE. SEE CG402 FOR EXTENT OF REPAIR.
D-110	EXISTING DAWN REDWOOD TREE. GRIND STUMPS AND REMOVE AS SPECIFIED.
SYMBOL	EXISTING TO REMAIN DESCRIPTION
EX-101	EXISTING BIORETENTION SWALES AND ASSOCIATED UTILITIES, RETAIN AND PROTECT IN PLACE.
EX-102	NOT USED
EX-103	EXISTING ASPHALT/CONCRETE PAVING, PROTECT IN PLACE.
EX-104	NOT USED
EX-105	EXISTING PITCHING RUBBER AND HOME PLATE, RETAIN AND PROTECT IN PLACE.
EX-106	EXISTING INFIELD MIX MATERIAL TO BE RETAINED/STOCKPILED AND REUSED.
EX-107	REMOVE AND SALVAGE EXISTING BOULDER TO BE RELOCATED. VERIFY LOCATION IN FIELD WITH LANDSCAPE ARCHITECT.
EX-108	EXISTING LANDSCAPE BETWEEN FENCING AND SIDEWALK TO BE RETAINED AND PROTECTED.
EX-109	EXISTING SPORTSFIELD LIGHT POLE, POST, AND UTILITY BOX, PROTECT IN PLACE.
EX-110	EXISTING BACKFLOW PREVENTOR AND RELATED IRRIGATION APPURTENANCES, PROTECT IN PLACE.
EX-111	RETAIN AND PROTECT EXISTING FOUL POLE.
EX-112	EXISTING DRAIN, CONCRETE SURROUNDS AND GUTTER, PROTECT IN PLACE.
EX-113	EXISTING DRAIN INLET, PROTECT IN PLACE.
EX-114	EXISTING NET POSTS, RETAIN AND PROTECT IN PLACE.

DEMOLITION NOTES

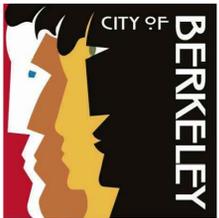
- THIS DEMOLITION PLAN WAS PREPARED FOR THE CONVENIENCE OF THE CONTRACTOR. THE LANDSCAPE ARCHITECT AND THE ENGINEER DO NOT REPRESENT THAT ALL ITEMS WHICH MAY REQUIRE DEMOLITION AND REMOVAL HAVE BEEN SHOWN. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CAREFULLY EXAMINE THE SITE AND DETERMINE AND EXECUTE ALL DEMOLITIONS AND REMOVALS NECESSARY FOR THE CONSTRUCTION OF THE NEW WORK TO THE SPECIFIED LINES, GRADES, AND CONFIGURATIONS.
- DEMOLITION WORK AND ABANDONMENT SHALL CONFORM TO THE UNIFORM BUILDING CODE, TITLE 24.
- NO DEMOLITION SHALL BE STARTED WITHOUT APPROVED PLANS. THE CITY SHALL BE NOTIFIED AT LEAST (48) HOURS PRIOR TO STARTING DEMOLITION.
- THE PLANS DO NOT AUTHORIZE SITE DISTURBANCE BEYOND THE LIMIT OF WORK LINE AS REPRESENTED ON THE PLANS OR UNLESS OTHERWISE NOTED.
- ALL ITEMS DAMAGED DURING DEMOLITION AND CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO ORIGINAL CONDITION OR BETTER TO THE SATISFACTION OF THE OWNER BY THE CONTRACTOR AT THE CONTRACTORS EXPENSE.
- ALL ITEMS SCHEDULED FOR REMOVAL SHALL BE PROPERLY DISPOSED OF OFF-SITE. CONTRACTOR TO VERIFY WITH THE CITY PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL SALVAGE AND DELIVER TO THE CITY CORP YARD ANY ITEMS AT THE REQUEST OF THE OWNER AS NOTED AS 'TO BE SALVAGED' ON PLANS.
- ALL DEBRIS FROM THE DEMOLITION PROCESS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF AT THE CONTRACTOR'S EXPENSE UNLESS OTHERWISE NOTED.
- ALL ABANDONED UTILITIES SHALL BE MARKED IN THE FIELD AND LOCATED ON THE DRAWINGS OF RECORD TO BE PREPARED BY THE CONTRACTOR.
- THE CONTRACTOR SHALL ONLY REMOVE THOSE UNDERGROUND FACILITIES SPECIFICALLY NOTED FOR REMOVAL. DAMAGE TO EXISTING FACILITIES TO REMAIN SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.
- CONTRACTOR SHALL COMPLY WITH ALL OF CITY CONSTRUCTION AND DEMOLITION RECYCLING DEBRIS REQUIREMENTS.
- REMOVE SPECIFIED TREES AND GRIND TREE STUMPS INDICATED ON THE PLANS. REMOVE TREES, TOGETHER WITH THE BULK OF THE ROOTS, TO A MINIMUM DEPTH OF 24 INCHES BELOW EXISTING GRADE AND WITHIN A RADIUS OF 7 FEET BEYOND THE PERIMETER OF THE TRUNK AT GROUND LINE. CHIP AND STOCKPILE ON SITE FOR USE AS MULCH PER PLANTING PLANS. CITY ARBORIST TO REVIEW.
- FILL AND COMPACT HOLES RESULTING FROM TREES AND TREE STUMP REMOVAL TO REQUIRED DENSITY. FILLING SHALL NOT BE DONE UNTIL HOLES HAVE BEEN APPROVED BY THE CITY'S REPRESENTATIVE. CITY ARBORIST TO REVIEW.
- CLEAR AND GRUB ALL UNDERSTORY VEGETATION UNLESS NOTED OTHERWISE. CITY ARBORIST TO REVIEW.
- CLEAR AND GRUB REMOVAL WITHIN DRIPLINES OF EXISTING TREES SHALL NOT EXCEED 3" IN DEPTH AND SHALL BE DONE BY HAND. CITY ARBORIST TO REVIEW.
- PAVING REMOVAL WITHIN DRIPLINES OF EXISTING TREES SHALL BE DONE BY HAND ONLY.
- EXISTING IRRIGATION AND WATER LINE LOCATIONS AND DEPTHS TO BE CONFIRMED IN THE FIELD BY THE CONTRACTOR. IF LOCATIONS CONFLICT WITH FOOTINGS, EARTHWORK, OR GRADING; WATER AND IRRIGATION LINES TO BE REMOVED PER CITY DIRECTION.
- CONSTRUCTION FENCE SHALL BE INSTALLED AND REMAIN THROUGHOUT DURATION OF PROJECT CONSTRUCTION.
- CONTRACTOR SHALL SAWCUT IN A CLEAN, STRAIGHT, LINE.
- ANY UTILITIES NOT SHOWN FOR REMOVAL SHALL REMAIN OPERATIONAL DURING CONSTRUCTION. ANY SHUT OFF OF WATER UTILITIES SHALL BE LIMITED TO (48) HOURS MAXIMUM.
- PRESERVE ALL EXISTING SIGNS UNLESS OTHERWISE NOTED.



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**GROVE PARK FIELD AND PLAYGROUND RENOVATIONS**  
2828 Martin Luther King Jr. Way, Berkeley, CA 94703  
**DEMOLITION NOTES**

NO.	REVISION	DATE

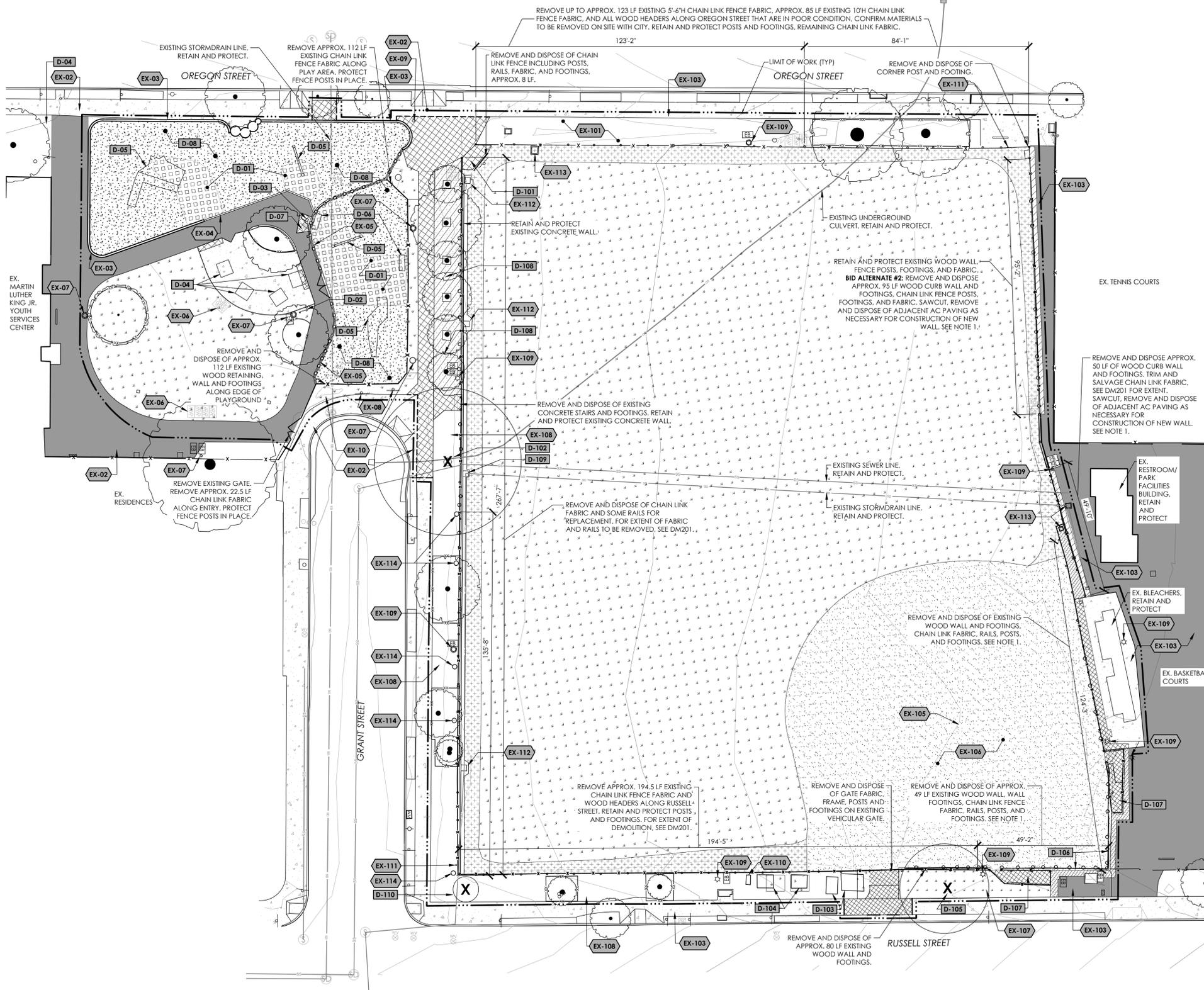
COB SPECIFICATION NO. 22-11538-C  
CITY PLAN NO. 8256 FILE NO. 406-218  
PROJECT MANAGER  
JS  
DRAWN BY YI CHECKED BY JS  
DATE  
NOVEMBER 22, 2022  
PROJECT NUMBER  
2211-01-RC21  
SHEET

DM001

BID SET

RRM-2211.01-10

AN ENGINEERING PERMIT WILL BE REQUIRED FOR ANY WORK IN THE PUBLIC RIGHT-OF-WAY, INCLUDING BUT NOT LIMITED TO CONSTRUCTION STAGING, RESERVED CONSTRUCTION PARKING, SIDEWALK, DRAINAGE, OR SEWER WORK. APPROVAL OF THIS BUILDING PERMIT DOES NOT AUTHORIZE WORK IN THE PUBLIC RIGHT-OF-WAY.



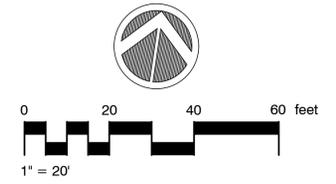
BID ALTERNATE SUMMARY		
NO.	DESCRIPTION	REFERENCE
2	BASE BID: PROTECT EXISTING WOOD WALL, FENCE POSTS, FABRIC AND FOOTINGS ALONG NORTHEASTERN STRETCH OF FIELD. (ADD) DEMOLISH EXISTING WOOD WALL AND REPLACE WITH CONCRETE WALL. REPLACE CHAIN LINK FENCE POSTS, FOOTINGS, AND FABRIC.	DM101 / LC102

### DEMOLITION LEGEND

SYMBOL	TYPE	DESCRIPTION
	CONCRETE TO BE REMOVED	REMOVE EXISTING CONCRETE PAVEMENT, ASSOCIATED AGGREGATE BASE (ASSUME 8" DEPTH), STAIRS, AND FOOTINGS.
	ASPHALT TO BE REMOVED	REMOVE EXISTING ASPHALT PAVEMENT, ASSUME 2" DEPTH
	CONCRETE TO BE RETAINED	PROTECT IN PLACE
	ASPHALT TO BE RETAINED	PROTECT IN PLACE
	CLEAR AND GRUB	EXISTING TURF, GROUND COVER, AND SHRUBS TO BE CLEARED, GRUBBED, AND REMOVED. ADJUST AND PROTECT ALL IRRIGATION PIPING, FITTINGS, HEADS, AND ASSOCIATED ITEMS TO ALLOW FOR NEW CONSTRUCTION.
	RUBBER SURFACING	REMOVE EXISTING RUBBER PLAY SURFACING AND ASSOCIATED BASE
	ENGINEERED WOOD FIBER	REMOVE AND DISPOSE EXISTING EWF. REPLACE WITH NEW EWF.
	EXISTING DECOMPOSED GRANITE	CLEAR WEEDS OR VEGETATION, REFRESH SURFACE OR ADD SECTION OF NEW LAYER AS NECESSARY, AND LEVEL SURFACE. REFER TO GRADING PLANS.
	EXISTING INFIELD FINES	RETAIN AND STOCKPILE FOR REUSE
	TREE TO REMAIN	PROTECT IN PLACE
	TREE TO REMOVE	TREE TO REMOVE
	TREE PROTECTION FENCING	SEE DETAIL 1 DM001
	EXISTING FENCING	EXISTING CHAIN LINK FENCING, REFER TO NOTES ON PLAN EXISTING PREFABRICATED METAL FENCING
	SAWCUT	

### NOTE

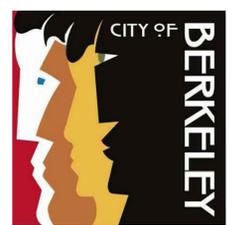
1. SEE 6/LC502 FOR WOOD WALL DEMOLITION DETAIL. REFER TO DM201 FOR EXTENT OF DEMOLITION.



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2828 Martin Luther King Jr. Way, Berkeley, CA 94703  
**DEMOLITION AND TREE PROTECTION PLAN**

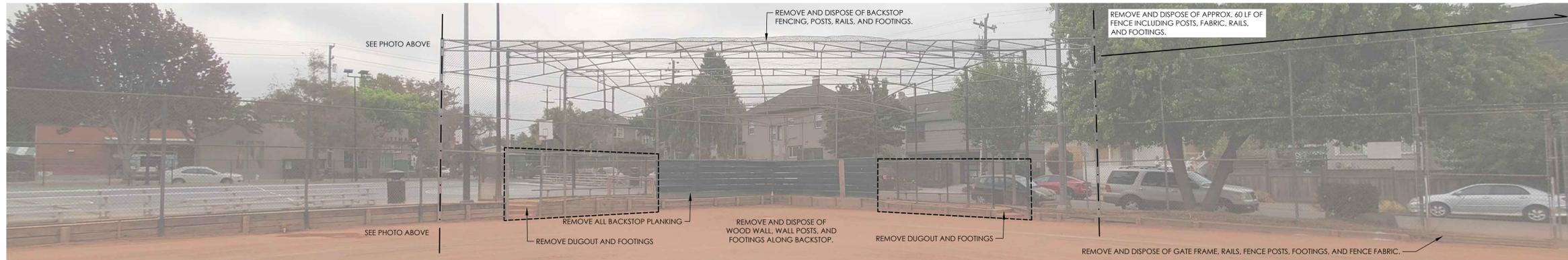
NO.	REVISION	DATE

COB SPECIFICATION NO. 22-11538-C  
CITY PLAN NO. 8256 FILE NO. 406-218  
PROJECT MANAGER  
DRAWN BY JS CHECKED BY JS  
DATE  
NOVEMBER 22, 2022  
PROJECT NUMBER  
2211-01-RC21  
SHEET  
DM101

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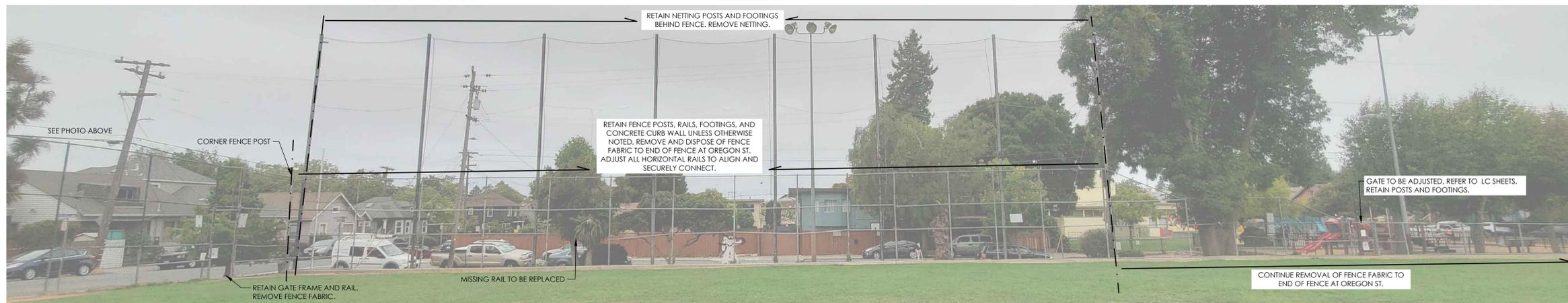
FIELD FENCE - EAST SIDE



FIELD FENCE - BACKSTOP



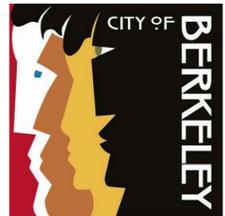
FIELD FENCE - RUSSELL ST.



FIELD FENCE - GRANT ST.



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**GROVE PARK FIELD AND  
PLAYGROUND RENOVATIONS**  
2828 Martin Luther King Jr. Way, Berkeley, CA 94703  
**DEMOLITION FENCE PHOTO SHEET**

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COB SPECIFICATION NO. 22-11538-C  
CITY PLAN NO. 8256 FILE NO. 406-218  
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**DM201**

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## GENERAL EROSION CONTROL NOTES

1. THE CONTRACTOR SHALL BE OR DESIGNATE A QUALIFIED QSP. THE QSP (QUALIFIED SWPPP PRACTITIONER) SHALL HAVE THE APPROPRIATE TRAINING AND OVERSEE ALL IMPLEMENTATION OF THE SWPPP AND ITS REQUIREMENTS. THE QSP SHALL BE RESPONSIBLE FOR ALL INSPECTIONS AND OBSERVATIONS OF THE BMP'S.
2. THE QSD (QUALIFIED SWPPP DEVELOPER) SHALL APPROVE AND CERTIFY ALL AMENDMENTS TO THE ANNUAL CERTIFICATIONS.
3. EROSION CONTROL SHEETS (PREPARED BY QSD) SHOWS THE WATER MONITORING LOCATION THAT HAS BEEN CHOSEN FOR THIS SITE BY THE QSD. THE QSP SHALL REVIEW THIS LOCATION AND REPORT BACK TO THE QSD IF THIS LOCATION IS DEEMED UNSAFE OR UNSUITABLE FOR ANY REASONS.
4. THE QSP SHALL ASSURE ALL SAFETY PRECAUTIONS NECESSARY HAVE BEEN IMPLEMENTED TO DO THE WATER MONITORING.
5. A STANDBY CREW FOR EMERGENCY WORK SHALL BE AVAILABLE AT ALL TIMES DURING THE RAINY SEASON (OCTOBER 15 THROUGH APRIL 15). NECESSARY MATERIALS SHALL BE AVAILABLE AND STOCKPILED AT CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OF TEMPORARY DEVICES WHEN RAIN IS IMMINENT.
6. THE CONTRACTOR SHALL CONSTRUCT TEMPORARY EROSION CONTROL MEASURES AS SHOWN ON THIS PLAN AND/OR AS DIRECTED BY THE ENGINEER OR QSD TO CONTROL DRAINAGE WHICH HAS BEEN AFFECTED BY GRADING AND/OR TRENCHING.
7. THE CONTRACTOR WILL BE ON CALL IN THE EVENT IT IS NECESSARY TO IMPLEMENT EROSION CONTROL MEASURES OR IN THE EVENT OF AN EMERGENCY.
8. ALL STORMWATER CONTROL MEASURES THAT ARE IDENTIFIED IN THE REAP (RAIN EVENT ACTION PLAN) SHALL BE IN PLACE MIN. OF 24 HRS. PRIOR TO FORECAST RAINS.
9. AFTER A RAINSTORM, ALL BMP'S SHALL BE INSPECTED AND ANY BUILDUP OF SEDIMENTS SHALL BE REMOVED AND DISPOSED OF IN AN APPROVED MANNER.
10. THE ENGINEER OF RECORD, QSD OR AN AUTHORIZED REPRESENTATIVE MAY REQUIRE THE CONTRACTOR AT ANY TIME TO INSTALL AND/OR CONSTRUCT ADDITIONAL DRAINAGE STRUCTURES AS NECESSARY TO PREVENT OR CONTROL EROSION.
11. THE EROSION CONTROL DEVICES ON THIS PLAN ARE A GENERAL CONCEPT OF WHAT MAY BE REQUIRED. EROSION CONTROL DEVICES MAY BE RELOCATED, DELETED OR ADDITIONAL ITEMS MAY BE REQUIRED DEPENDING ON THE ACTUAL SOIL CONDITIONS ENCOUNTERED. EROSION CONTROL DEVICES MAY BE PLACED AT THE DISCRETION OF THE QSP AS APPROVED BY THE QSD.
12. THE CONTRACTOR IS RESPONSIBLE TO KEEP IN FORCE ALL EROSION CONTROL DEVICES AND TO MODIFY THOSE DEVICES AS SITE PROGRESS DICTATES.
13. THE CONTRACTOR SHALL MONITOR THE EROSION CONTROL DEVICES DURING STORMS AND MODIFY THEM IN ORDER TO PREVENT PROGRESS OF ANY ONGOING EROSION.
14. THE CONTRACTOR IS RESPONSIBLE FOR CLEANING ANY EROSION OR DEBRIS SPILLING ONTO A PUBLIC STREET DAILY.
15. THE CONTRACTOR SHALL CONTACT THE QSD IN THE EVENT THAT THE EROSION CONTROL PLAN AS DESIGNED REQUIRES ANY SUBSTANTIAL REVISIONS.
16. DURING GRADING OPERATIONS IF AN AREA OF DISTURBANCE IS TO REMAIN IDEL FOR A PERIOD OF 2 OR MORE WEEKS, THE DISTURBED AREAS SHALL BE COVERED WITH MULCH, STRAW OR SOME OTHER TYPE OF BMP TO PREVENT EROSION DURING RAIN EVENTS.
17. THE CONTRACTOR SHALL PROVIDE STREET SWEEPING AS DIRECTED BY INSPECTOR OR AS NEEDED THROUGHOUT THE DAY AND AT THE END OF EACH SHIFT TO PREVENT ANY SEDIMENTS FROM BEING TRACKED OFF-SITE OR TO AREAS THAT MAY CONTRIBUTE TO SEDIMENTS BEING DEPOSITED INTO THE STORM DRAIN SYSTEM.
18. POST CONSTRUCTION BMP'S INCLUDING PLANTINGS, SHRUBS, GROUND COVER AND TREES AS SHOWN ON THE CONSTRUCTION PLANS SHALL BE IN PLACE AS SOON AS PRACTICAL.
19. CONTRACTOR TO INSTALL SILT FENCING AT ALL PERIMETER LOCATIONS THAT HAVE THE POTENTIAL TO DISCHARGE STORMWATER OFF-SITE.
20. CONTRACTOR TO PROTECT ALL YARD AND LANDSCAPE AREA DRAINS FROM SEDIMENTS UNTIL LANDSCAPING IS COMPLETED AND VEGETATION ESTABLISHED.
21. GRAVEL BAGS ORIENTED TO SLOW THE FLOW OF STORM WATER RUNOFF SHALL BE PLACED IN THE CONCRETE GUTTERS IN THE ON-SITE ROADWAY TO HELP FILTER OUT ANY SEDIMENTS. THESE GRAVEL BAGS SHALL BE PLACED 50' O/C MAX. SEDIMENTS THAT ACCUMULATE AT THE GRAVEL BAGS SHALL BE REMOVED AFTER EACH RAIN EVENT.
22. THE CONTRACTOR SHALL KEEP TWO ACCEPTABLE RAIN GAUGES ON-SITE TO MONITOR RAIN EVENTS DURING CONSTRUCTION.
23. THE CONTRACTOR SHALL IMPLEMENT EFFECTIVE WIND EROSION CONTROLS.
24. IN THE EVENT OF A RELEASE OF A REPORTABLE QUANTITY OF A POLLUTANT, THE CONTRACTOR SHALL ADVISE THE OWNER TO NOTIFY THE NATIONAL RESPONSE CENTER AND THE CITY OF BERKELEY. IF NECESSARY, THIS POLLUTION PREVENTION PLAN SHOULD BE REVISED TO REFLECT THE CHANGE IN CONDITIONS OF THE CONSTRUCTION ACTIVITY. A REPORTABLE QUANTITY IS ESTABLISHED BY THE 40 CODE OF FEDERAL REGULATIONS (CFR) 1117.3 OR 40 CFR 302.4.
25. EROSION CONTROL MEASURES SHALL BE IMPLEMENTED AND MAINTAINED TO THE SATISFACTION OF THE BUILDING OFFICIAL AND PUBLIC WORKS DIRECTOR DURING ALL DEMOLITIONS, CONSTRUCTION AND GROUND DISTURBING ACTIVITIES.
26. TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED WHEN PERMANENT IMPROVEMENTS, PLANTINGS, AND FACILITIES ARE IN PLACE. TEMPORARY MEASURES SHALL BE REMOVED PRIOR TO FINAL INSPECTION APPROVALS.
27. STOCKPILE MANAGEMENT SHALL BE IN CONFORMANCE WITH GENERAL PERMIT AND THE CASQA BMP GUIDE.
28. SEE CONSTRUCTION PLANS FOR MORE INFORMATION ON POST CONSTRUCTION VEGETATION BMP'S.
29. IF DURING CONSTRUCTION DEWATERING OPERATIONS BECOME NECESSARY, ALL DEWATERING SHALL BE DONE IN COMPLIANCE WITH THE REQUIREMENTS OUTLINED THE NPDES GENERAL PERMIT AND PER THE CASQA BMP HANDBOOK FOR BMP SC-11. DISCHARGES SHALL BE TREATED FOR EXCESSIVE SEDIMENTS PRIOR TO LEAVING THE SITE AND/OR ENTERING THE CITY OF BERKELEY'S STORM DRAIN SYSTEM.

## AIR QUALITY CONTROL NOTES

THE FOLLOWING PRACTICES ARE TO BE USED AT ALL TIMES DURING CONSTRUCTION:

1. REDUCE THE AMOUNT OF DISTURBED AREA WHERE POSSIBLE.
2. USE WATER TRUCKS OR SPRINKLER SYSTEMS IN SUFFICIENT QUANTITY TO PREVENT AIRBORNE DUST FROM LEAVING THE SITE. INCREASED WATERING FREQUENCY WILL BE REQUIRED WHENEVER WIND SPEEDS EXCEED 15MPH. RECLAIMED (NON-POTABLE WATER) WATER SHOULD BE USED WHENEVER POSSIBLE.
3. PERMANENT DUST CONTROL MEASURES IDENTIFIED IN THE APPROVED PROJECT PLANS SHALL BE IMPLEMENTED AS SOON AS POSSIBLE FOLLOWING COMPLETION OF ANY SOIL DISTURBING ACTIVITIES.
4. EXPOSED GROUND AREAS THAT ARE PLANNED TO BE REWORKED AT DATES GREATER THAN ONE MONTH AFTER INITIAL GRADING SHALL BE SOWN WITH A FAST GERMINATING NATIVE GRASS SEED AND WATERED UNTIL VEGETATION IS ESTABLISHED.
5. ALL DISTURBED SOIL AREAS NOT SUBJECT TO RE-VEGETATION MUST BE STABILIZED USING APPROVED CHEMICAL SOIL BINDERS, JUTE NETTING, OR OTHER METHODS APPROVED IN ADVANCE BY THE CITY.
6. ALL ROADWAYS, DRIVEWAYS, SIDEWALKS, ETC. TO BE PAVED SHOULD BE COMPLETED AS SOON AS POSSIBLE. IN ADDITION, BUILDING PADS SHOULD BE LAID AS SOON AS POSSIBLE AFTER GRADING UNLESS SEEDING OR SOIL BINDERS ARE USED.
7. VEHICLE SPEED FOR ALL CONSTRUCTION VEHICLES SHALL NOT EXCEED 15MPH ON ANY UNPAVED SURFACE AT THE CONSTRUCTION SITE.
8. ALL TRUCKS HAULING DIRT, SAND, SOIL, OR OTHER LOOSE MATERIAL ARE TO BE COVERED OR SHOULD MAINTAIN AT LEAST TWO FEET OF FREEBOARD (MINIMUM VERTICAL DISTANCE BETWEEN TOP OF LOAD AND TOP OF TRAILER) IN ACCORDANCE WITH THE CALIFORNIA VEHICLE CODE SECTION 23114.
9. INSTALL WHEEL WASHERS WHERE VEHICLES ENTER AND EXIT UNPAVED ROAD AND STREETS, OR WASH OFF TRUCKS AND EQUIPMENT LEAVING THE SITE.
10. SWEEP STREETS AT THE END OF EACH DAY IF VISIBLE SOIL MATERIAL IS CARRIED ONTO ADJACENT PAVED ROADS. WATER SWEEPERS WITH RECLAIMED WATER SHOULD BE USED WHERE FEASIBLE.
11. A DESIGNATED DUST CONTROL MONITOR SHALL BE CHOSEN. THEY SHALL BE RESPONSIBLE FOR IMPLEMENTATION OF ALL DUST CONTROL MEASURES. THE MONITOR SHALL BE AVAILABLE DURING WEEKENDS AND HOLIDAYS. THE NAME AND PHONE NUMBER OF THE MONITOR SHALL BE PROVIDED TO THE CITY AND APCD.

## PHASING NOTES

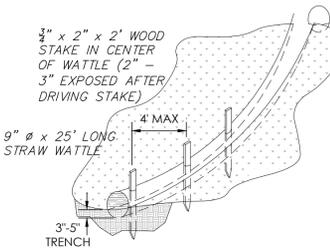
1. THE CONTRACTOR SHALL PHASE CONSTRUCTION ROUGH GRADING TO LIMIT THE SIZE OF DISTURBANCE TO AN AREA THAT CAN BE MAINTAINED WITH PROPER BMP'S DURING ANY RAIN EVENTS.
2. AFTER AN AREA HAS BEEN PAVED, THE CONTRACTOR SHALL PROVIDE GRAVEL BAGS IN THE FLOW LINES TO FILTER SEDIMENTS FROM STORM WATER RUNOFF OR AN APPROVED EQUAL.
3. AREA DRAINS SHALL HAVE STORM DRAIN INLET PROTECTION INSTALLED DURING THE TIME BETWEEN INSTALLATION AND PLANTING OF GROUND VEGETATION PER THE PLANS OR AN APPROVED EQUAL.
4. LANDSCAPED AREAS SHALL BE COMPLETED AND SPRINKLERS INSTALLED AS SOON AS POSSIBLE AFTER GRADING OPERATIONS.
5. ANY AREAS OF DISTURBANCE THAT WILL REMAIN IDEL FOR TWO OR MORE WEEKS SHALL BE STABILIZED WITH MULCH, STRAW, HYDROSEED OR OTHER APPROPRIATE BMP COVER.
6. DURING ASPHALT PATCHING OPERATIONS, THE CONTRACTOR SHALL PROVIDE EITHER PERMANENT OR TEMPORARY PAVING IN THE AREAS OF PATCHING BY THE END OF THE WORK DAY. NO TRENCHES SHALL BE LEFT OPEN DURING TIMES OF PREDICTED RAINFALL.
7. THE AREAS SHOWN ON THE PLANS FOR MATERIAL DELIVERY & STORAGE AND CONCRETE WASTE MANAGEMENT ARE FOR REFERENCE ONLY, THE ACTUAL LOCATIONS ARE TO BE DETERMINED BY THE QSP.
8. THE BMP'S SHOWN ON THE EROSION CONTROL PLANS ARE INTENDED AS A GUIDELINE FOR THE CONTRACTOR'S QSP. IMPLEMENTATION OF THESE OR OTHER BMP'S WILL BE THE RESPONSIBILITY OF THE QSP.
9. ALL ROADWAYS SHALL BE KEPT CLEAN ON A DAILY BASIS BY MEANS OF VACUUMING OR STREET SWEEPINGS.
10. PRIOR TO FORECAST RAIN EVENTS, THE QSP SHALL EVALUATE THE SITE AND ESTABLISH ADEQUATE BMP'S TO PROTECT ALL DISTURBED AREAS FROM EROSION.
11. STORM DRAIN INLET PROTECTION SHALL BE TYPE 2 DURING STORM DRAIN INSTALLATIONS, AND TYPE 3 AFTER PAVING OPERATIONS HAVE BEEN COMPLETED. (SEE BMP GUIDANCE HANDOUT IN THE SWPPP FOR MORE INFORMATION).
12. THE STRAW WATTLES SHOWN ON THESE PLANS ARE INTENDED TO REPRESENT DIFFERENT PHASES OF CONSTRUCTION. CONTRACTOR SHALL INCORPORATE THEIR USE AS NEEDED DURING CONSTRUCTION OR AS DIRECTED BY INSPECTOR.

## EROSION CONTROL NOTES

1. THE BMP'S PROPOSED ON THESE PLANS ARE INTENDED AS A GUIDELINE FOR THE CONTRACTOR. OTHER AND/OR MORE EXTENSIVE MEASURES MAY BECOME NECESSARY DURING CONSTRUCTION, AND WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO IMPLEMENT AT NO ADDITIONAL COST TO THE CITY.

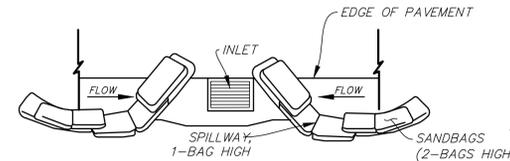
## GOOD HOUSEKEEPING PRACTICES

1. THE CONTRACTOR SHALL CONDUCT AN INVENTORY OF THE PRODUCTS USED AND/OR EXPECTED TO BE USED AND THE END PRODUCTS THAT ARE PRODUCED AND/OR EXPECTED TO BE PRODUCED.
2. COVER AND BERM LOOSE STOCKPILED CONSTRUCTION MATERIALS THAT ARE NOT ACTIVELY BEING USED.
3. STORE CHEMICALS IN WATERTIGHT CONTAINERS (WITH APPROPRIATE SECONDARY CONTAINMENT TO PREVENT ANY SPILLAGE OR LEAKAGE) OR IN A STORAGE SHED (COMPLETELY ENCLOSED).
4. ALL EQUIPMENT AND VEHICLE FUELING AND MAINTENANCE PROCEDURES SHALL BE DONE IN THE AREA SHOWN ON THE SITE PLANS OR OTHER LOCATION WHERE THE APPROPRIATE BMP'S HAVE BEEN INSTALLED TO PREVENT ANY CONTAMINATION OF THE SOILS.
5. THE CONTRACTOR SHALL USE SOME TYPE OF GROUND COVER OR OTHER DEVICES TO INSURE NO PETROLEUM PRODUCTS COME IN CONTACT WITH SOILS DURING FUELING AND MAINTENANCE.
6. THE CONTRACTOR SHALL PROVIDE APPROPRIATE CONTAINMENT AROUND ANY SANITARY TOILETS THAT PREVENT CONTAMINATION TO THE SOILS.
7. ANY BUILDING MATERIALS THAT ARE STORED ON-SITE THAT HAVE THE POTENTIAL TO CONTRIBUTE NON-VISIBLE POLLUTANTS TO THE STORM WATER RUNOFF SHALL BE STORED IN WATERTIGHT CONTAINERS OR UNDER THE COVER OF SHELTERS THAT PROVIDE PROTECTION FROM RAINS.
8. CONSTRUCTION MATERIAL WASTES SHALL BE CLEANED UP DAILY AND STORED IN COVERED CONTAINERS PRIOR TO DISPOSAL.
9. THE CONTRACTOR HAS THE OPTION TO USE METAL SHAKER BOARDS IN LIEU OF RIP RAP AT THE CONSTRUCTION ENTRANCE AS LONG AS IT PROVIDES ADEQUATE TIRE CLEANING ABILITIES.

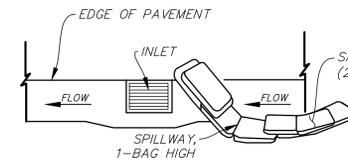


**NOTES:**  
PLACE NET-WRAPPED STRAW WATTLE IN TRENCH. WATTLE TO BE TIGHTLY BUTTED END TO END BUT NOT OVERLAPPING. MINIMUM 6 STAKES PER 25' OF WATTLE.

**SE-5 STRAW WATTLE DETAIL**  
-NTS-



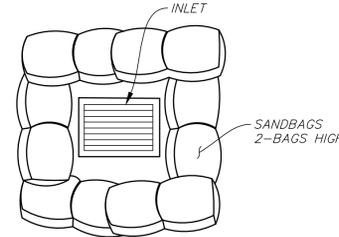
**TYPICAL PROTECTION FOR INLET ON SUMP**  
-NTS-



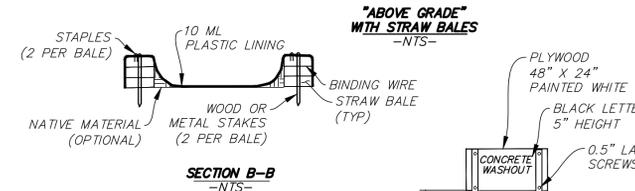
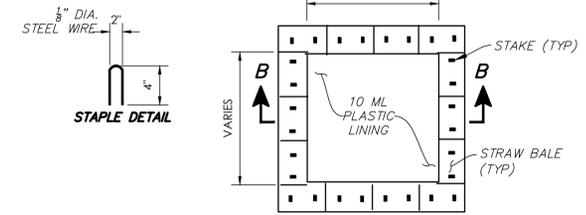
**TYPICAL PROTECTION FOR INLET ON GRADE**  
-NTS-

- NOTES:**
1. INTENDED FOR SHORT TERM USE
  2. USE TO INHIBIT NON-STORM WATER FLOWS
  3. ALLOW FOR PROPER MAINTENANCE AND CLEANUP
  4. BAGS MUST BE REMOVED AFTER ADJACENT OPERATION IS COMPLETE
  5. NOT APPLICABLE IN AREAS WITH HIGH SILTS & WITHOUT FILTER FABRIC

**SE-10 STORM DRAIN INLET PROTECTION TYPE-3**  
-NTS-

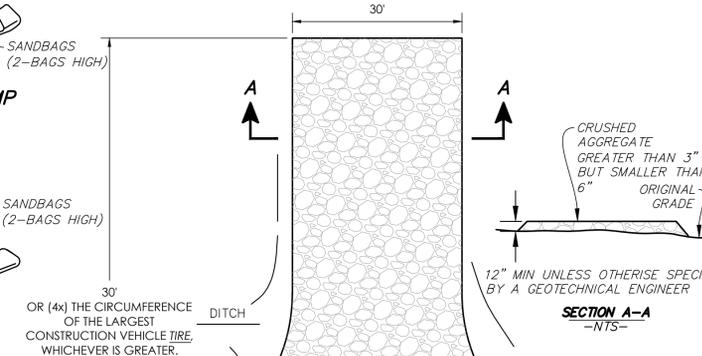


**SE-10 STORM DRAIN INLET PROTECTION TYPE-3**  
-NTS-

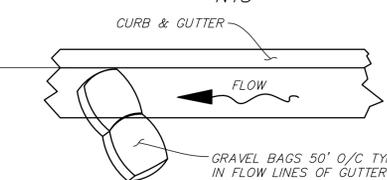


- NOTES:**
1. ACTUAL LAYOUT DETERMINED IN FIELD
  2. THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30 FT. OF THE TEMPORARY CONCRETE WASHOUT FACILITY

**WM-8 CONCRETE WASTE MANAGEMENT**  
-NTS-



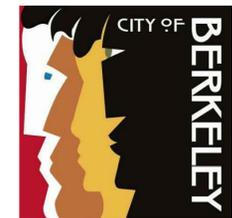
**TC-1 STABILIZED CONSTRUCTION ENTRANCE/EXIT**  
-NTS-



**SE-6 GRAVEL BAGS IN FLOW LINE DETAIL**  
-NTS-



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**GROVE PARK FIELD AND PLAYGROUND RENOVATIONS**  
2828 Martin Luther King Jr. Way, Berkeley, CA 94703

**EROSION CONTROL NOTES AND DETAILS**

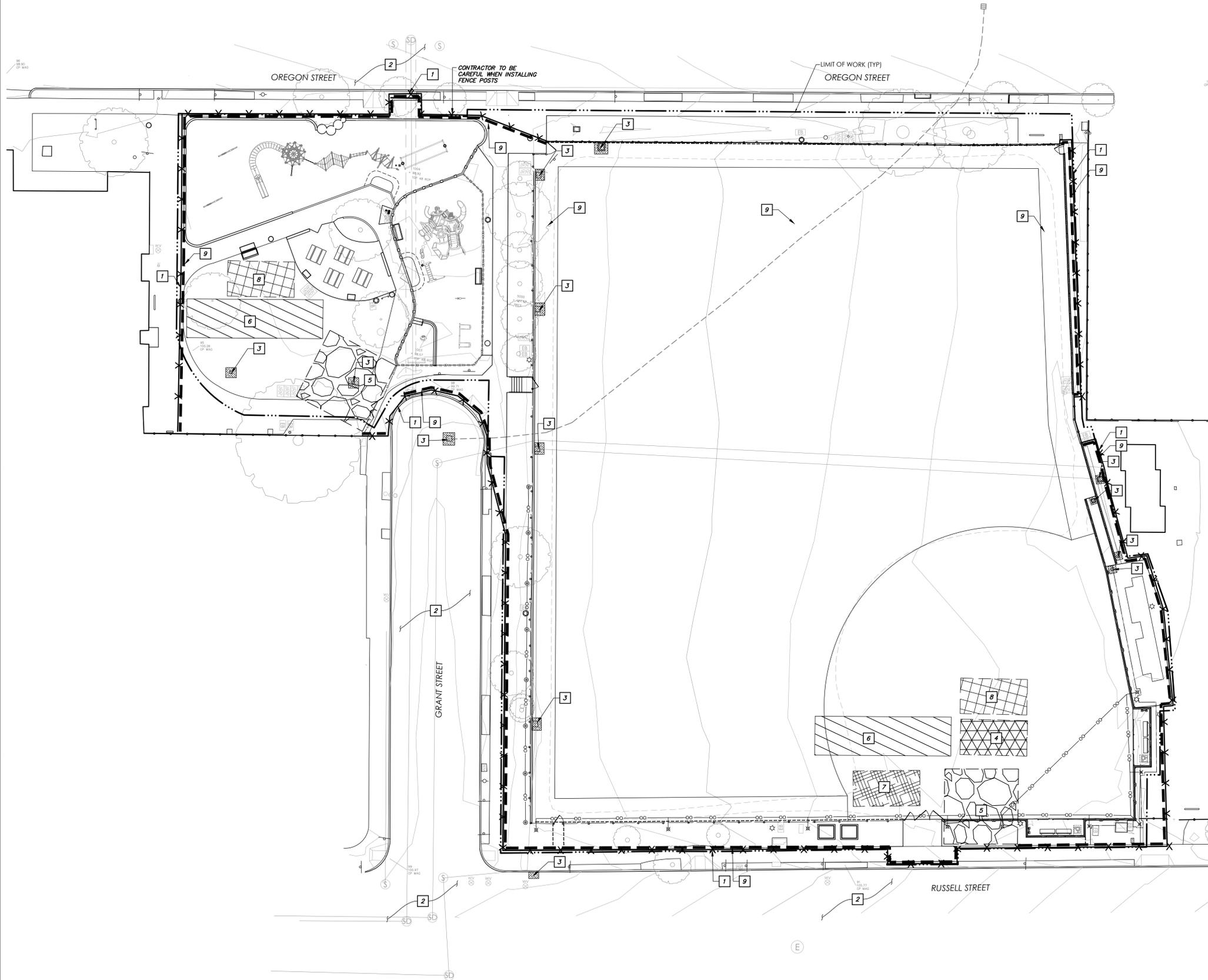
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CITY PLAN NO. 8256 FILE NO. 406-218

**PROJECT MANAGER**  
JS  
**DRAWN BY** YI **CHECKED BY** JS  
**DATE**  
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**SHEET**  
CE001

AN ENGINEERING PERMIT WILL BE REQUIRED FOR ANY WORK IN THE PUBLIC RIGHT-OF-WAY, INCLUDING BUT NOT LIMITED TO CONSTRUCTION STAGING, RESERVED CONSTRUCTION PARKING, SIDEWALK, DRAINAGE, OR SEWER WORK. APPROVAL OF THIS BUILDING PERMIT DOES NOT AUTHORIZE WORK IN THE PUBLIC RIGHT-OF-WAY.



**SWPPP CONTROL BMP'S**

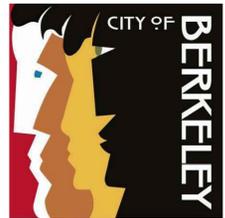
#	BMP NAME	SYMBOL
1	TEMPORARY CONSTRUCT FENCE WITH DUST CONTROL SCREEN	
2	SE-7 STREET SWEEPING AND VACUUMING	
3	SE-10 STORM DRAIN INLET PROTECTION. SEE SHEET CE001 FOR DETAIL.	
4	WM-2 MATERIAL USE	
5	TC-1 STABILIZED CONSTRUCTION ENTRANCE. SEE SHEET CE001 FOR DETAIL.	
6	WM-3 STOCKPILE MANAGEMENT	
7	WM-6 CONCRETE WASTE MANAGEMENT. SEE SHEET CE001 FOR DETAIL.	
8	WM-1 MATERIAL DELIVERY AND STORAGE	
9	SE-5 STRAW WATTLE	



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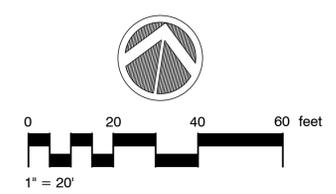
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**GROVE PARK FIELD AND PLAYGROUND RENOVATIONS**  
2828 Martin Luther King Jr. Way, Berkeley, CA 94703  
**EROSION CONTROL PLAN**

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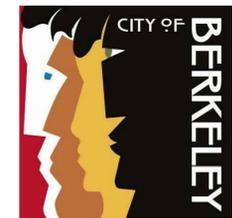








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**GROVE PARK FIELD AND PLAYGROUND RENOVATIONS**  
2828 Martin Luther King Jr. Way, Berkeley, CA 94703  
**GRADING AND DRAINAGE ENLARGEMENT PLAN**

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CITY PLAN NO. 8256 FILE NO. 406-218  
**PROJECT MANAGER**  
JS  
**DRAWN BY** SC/RP  
**CHECKED BY** DC  
**DATE**  
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2211-01-RC21  
**SHEET**

**CG402**

**GRADING AND DRAINAGE KEYNOTES**

- ◆ ○ INSTALL PLAYGROUND UNDERDRAIN PER DETAIL 7 ON SHEET LC507
- ◆ ○ INSTALL HDPE STORM DRAIN PER SPECIFICATIONS. USE ADS PRODUCT OR APPROVED EQUAL. SIZE AS SHOWN ON PLANS
- ◆ CORE DRILL INTO EXISTING MANHOLE AND CONNECT HDPE STORM DRAIN LATERAL PER DETAIL 4 ON SHEET LC507. REPLACE ANY EXISTING CONCRETE GUTTER AND/OR PAVEMENT DAMAGED DURING SD INSTALLATION IN KIND
- ◆ INSTALL UTILITY TRENCH AND CURB REPLACEMENT PER CITY OF BERKELEY SPECIFICATIONS. SEE DETAIL 2 SHEET LC506
- ◆ CONSTRUCT DRINKING FOUNTAIN DRAINAGE WELL PER DETAIL 5, SHEET LC507
- ◆ = = = INSTALL FRENCH DRAIN PER DETAIL 3 ON SHEET LC507
- ◆ \* INSTALL PROPOSED 6" CLEANOUT PER DETAIL 8, SHEET LC507
- ◆ CORE DRILL INTO EXISTING CULVERT AND CONNECT HDPE STORM DRAIN LATERAL PER DETAIL 6 ON SHEET LC507
- ◆ INSTALL 12" X 12" CATCH BASIN (OLDCASTLE 1212CB OR CITY-APPROVED EQUAL)

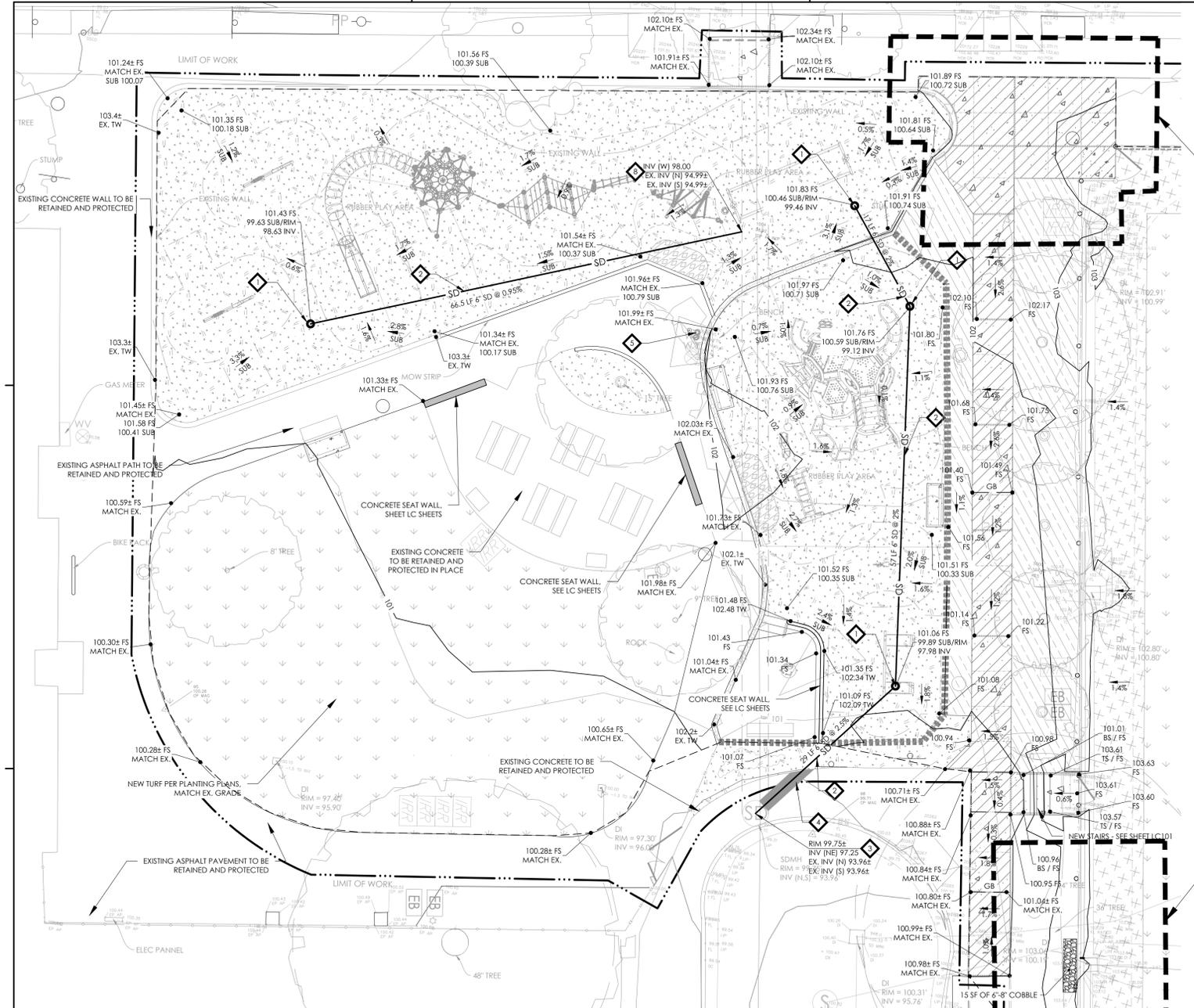
**LEGEND**

EXISTING	PROPOSED
— GAS —	— PROJECT LIMITS
— 134 —	— LIMIT OF GRADING/ DAYLIGHT LINE
— 135 —	— PROPOSED CONTOURS
— W —	— PROPOSED STORM DRAIN
— SS —	— ASPHALT PAVING (SEE LC SHEETS)
— SD —	— CONCRETE STANDARD (SEE LC SHEETS)
	— CITY STANDARD PEDESTRIAN CONCRETE (SEE LC SHEETS)
	— VEHICULAR CONCRETE (SEE LC SHEETS)
	— INFIELD MIX (SEE LC SHEETS)
	— TURF (SEE LC SHEETS)
	— DECOMPOSED GRANITE (SEE LC SHEETS)
	— ENGINEERED WOOD FIBER (SEE LC SHEETS)
	— GRADE BREAK
	— INSTALL NEW NETTING
	— APPROXIMATE AC/CONCRETE PATCH LIMIT FOR WALLS
	— FRENCH DRAIN
	— SEALCOAT EXISTING ASPHALT PAVEMENT, MATCH EG
	— UTILITY TRENCH
	— BASEBALL WARNING TRACK (SEE LC SHEETS)

**NOTE**

1. THE CONTRACTOR SHALL POTHOLE TO IDENTIFY UTILITY TYPE, DEPTH AND DIMENSIONS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT PRIOR TO POTHOLES. CONTRACTOR SHALL IDENTIFY WHERE EXISTING UTILITY CONFLICTS MAY INTERFERE WITH THE PROPOSED IMPROVEMENTS AND INFORM THE CITY AND ENGINEER. CONTRACTOR SHALL IDENTIFY ALL UNDERGROUND CONFLICTS PRIOR TO THE START OF CONSTRUCTION, AND SHALL NOTIFY THE ENGINEER PRIOR TO START OF UNDERGROUND UTILITY AND STORM DRAIN INSTALLATION. POT HOLE RESTORATION SHALL BE IN LIKE KIND TO THE SURFACE THAT PREVAILED PRIOR TO THE POTHOLES.

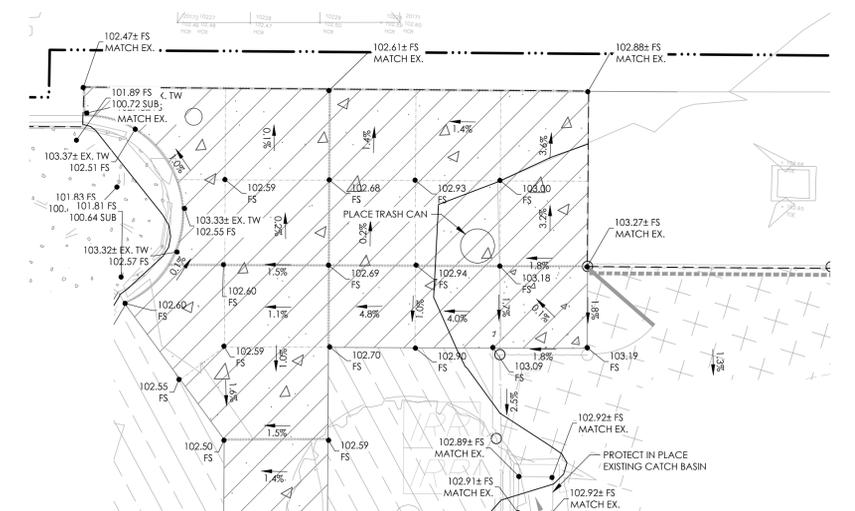
2. AN ENGINEERING PERMIT WILL BE REQUIRED FOR ANY WORK IN THE PUBLIC RIGHT-OF-WAY, INCLUDING BUT NOT LIMITED TO CONSTRUCTION STAGING, CONSTRUCTION PARKING, SIDEWALK, SHORING, DRAINAGE, OR SEWER WORK. THE ENGINEERING PERMIT CAN BE ISSUED AFTER THE BUILDING PERMIT IS APPROVED OR ISSUED. APPROVAL OF THIS BUILDING PERMIT DOES NOT AUTHORIZE WORK IN THE RIGHT-OF-WAY.



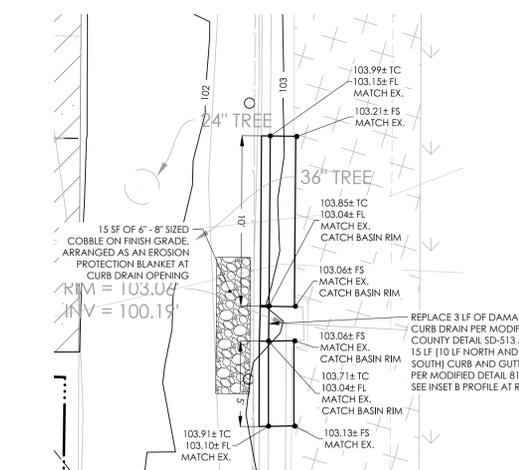
SEE INSET A, THIS SHEET

SEE INSET B, THIS SHEET

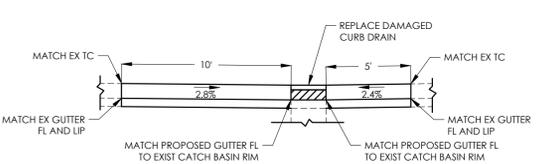
**PLAN**  
SCALE: 1" = 10'



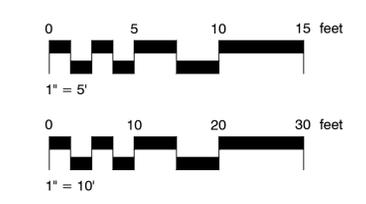
**INSET A**  
SCALE: 1" = 5'



**INSET B**  
SCALE: 1" = 5'



**INSET B PROFILE**  
SCALE: NTS



\\comp\rrm\on-hls\2020\2211-01-RC21-Grove-Park-Renovations-Engineering\Condoct\Sheet-Files\CG-2211-01-RC21.dwg, CG402, Nov 22, 2022, 10:55am, dmbaby

BID SET



**I. C.3.i Project Information**

This form applies to development projects creating and/or replacing  $\geq 2500$  ft<sup>2</sup> to  $< 10,000$  ft<sup>2</sup> of impervious surface which are not Special Land Use Categories projects (auto service facilities, retail gasoline outlets, restaurants, and uncovered parking lots). This form also applies to detached single-family home projects, which create and/or replace  $\geq 2500$  ft<sup>2</sup> of impervious surface. Interior remodeling projects and routine maintenance or repair projects such as roof or exterior wall surface replacement and pavement resurfacing within the existing footprint are exempt from C.3.i stormwater requirement.

**I.A. Enter Project Data**

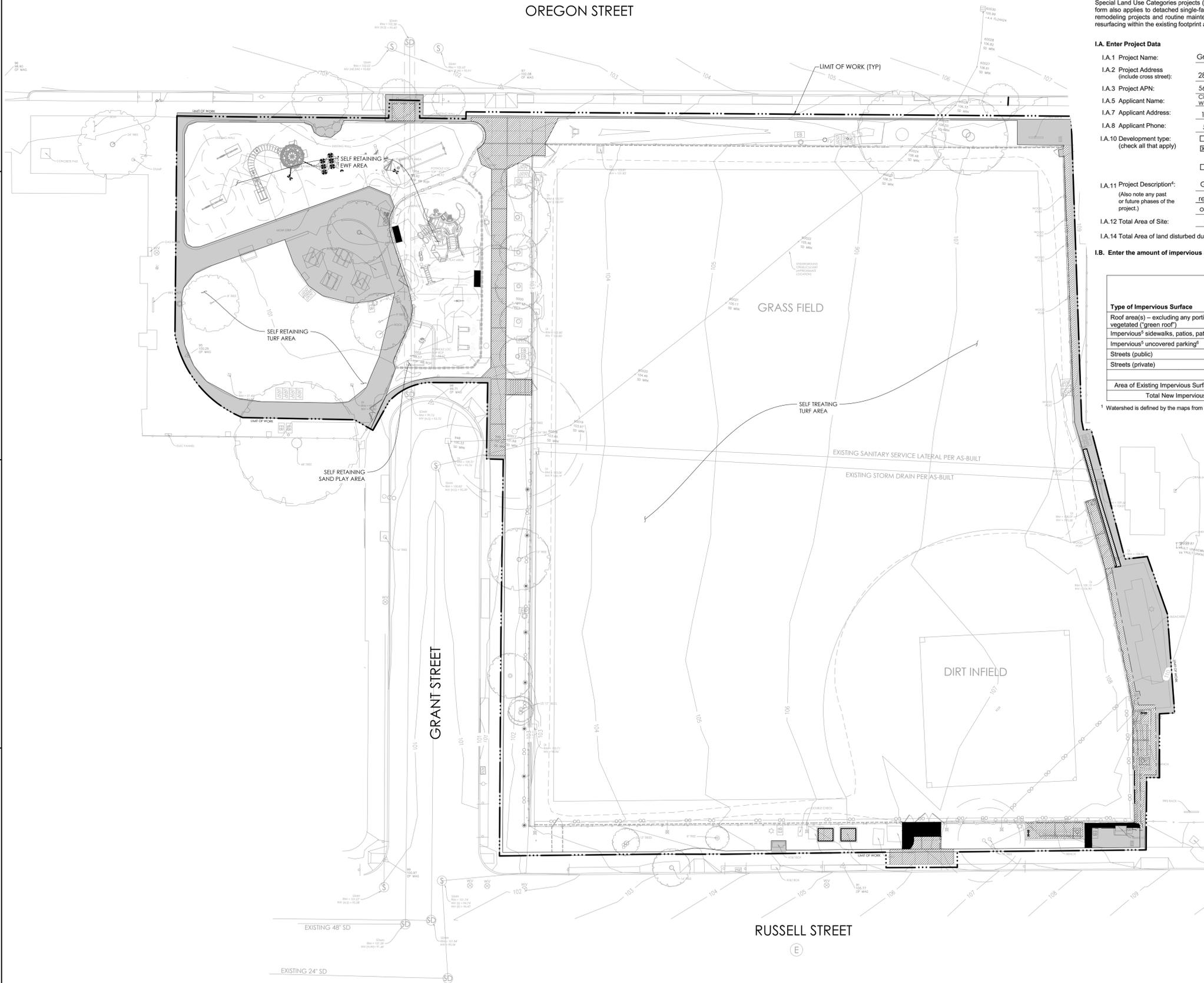
I.A.1 Project Name: Grove Park Field and Playground Renovations  
 I.A.2 Project Address (include cross street): 2828 Martin Luther King Jr Way (btwn Oregon St and Russell St), Berkeley, CA 94703  
 I.A.3 Project APN: 563-1678-1-2, 53-1678-1-1, 53-1676-1-11A.4 Project Watershed<sup>1</sup>: Potter and Derby Creeks  
 I.A.5 Applicant Name: City of Berkeley Parks, Recreation & Watersheds Department I.A.6 Date Submitted: Watershed 9/14/2022  
 I.A.7 Applicant Address: 1947 Center Street, 5th Floor, Berkeley, CA 94704  
 I.A.8 Applicant Phone: 510-981-6700 I.A.9 Applicant Email Address: parks@cityofberkeley.info  
 I.A.10 Development type: (check all that apply)  
 Residential  Commercial  Industrial  Mixed-Use  Streets, Roads, etc.  
 'Redevelopment' as defined by MRP: creating, adding and/or replacing exterior existing impervious surface on a site where past development has occurred?  
 'Special land use categories' as defined by MRP: (1) auto service facilities? (2) retail gasoline outlets, (3) restaurants?, (4) uncovered parking area (stand-alone or part of a larger project)  
 I.A.11 Project Description<sup>1</sup>: (Also note any past or future phases of the project.) Grove Park is a playground and landscape improvement project. The site will replace the existing playground, regrade the existing ballfield, and incorporate other general site amenities.  
 I.A.12 Total Area of Site: 1.9 acres I.A.13 Slope on Site: 2.0 %  
 I.A.14 Total Area of land disturbed during construction (include clearing, grading, excavating and stockpile area): 2.0 acres.

**I.B. Enter the amount of impervious and pervious surface<sup>1</sup> created and/or replaced by the project.**

Type of Impervious Surface	Table of Impervious and Pervious Surfaces			
	a	b	c	d
	Pre-Project Impervious Surface (sq.ft.)	Existing Impervious Surface to be Replaced <sup>1</sup> (sq.ft.)	New Impervious Surface to be Created <sup>1</sup> (sq.ft.)	Post-project pervious surface (sq.ft.)
Road area(s) – excluding any portion of the roof that is vegetated ("green roof")	0	0	0	
Impervious <sup>2</sup> sidewalks, patios, paths, driveways	8,151	2577	243	
Impervious <sup>2</sup> uncovered parking <sup>3</sup>	0	0	0	N/A
Streets (public)	0	0	0	
Streets (private)	0	0	0	
Totals:	8,151	2577	243	74,740
Area of Existing Impervious Surface to remain in place	5,331		N/A	
Total New Impervious Surface (sum of totals for columns b and c):		2820		

<sup>1</sup> Watershed is defined by the maps from the Alameda County Flood Control District at <http://acfdloodcontrol.org/resources/explore-watersheds>

1 January 14, 2016

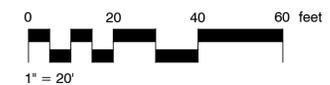


**LEGEND**

- PRE-PROJECT IMPERVIOUS SURFACE
- EXISTING IMPERVIOUS AREA TO BE REPLACED
- NEW IMPERVIOUS SURFACE TO BE CREATED

**NOTE**

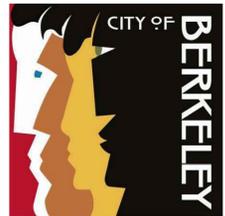
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**GROVE PARK FIELD AND PLAYGROUND RENOVATIONS**  
2828 Martin Luther King Jr. Way, Berkeley, CA 94703  
**STORMWATER MANAGEMENT PLAN**

NO.	REVISION	DATE

COB SPECIFICATION NO. 22-11538-C  
CITY PLAN NO. 8256 FILE NO. 406-218

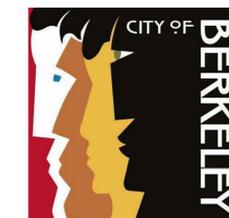
**PROJECT MANAGER**  
JS  
DRAWN BY SC/RP CHECKED BY DC  
DATE  
**NOVEMBER 22, 2022**

PROJECT NUMBER  
**2211-01-RC21**

SHEET  
**CW101**



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**GROVE PARK FIELD AND  
PLAYGROUND RENOVATIONS**  
2828 Martin Luther King Jr. Way, Berkeley, CA 94703  
**HORIZONTAL CONTROL  
PLAN**

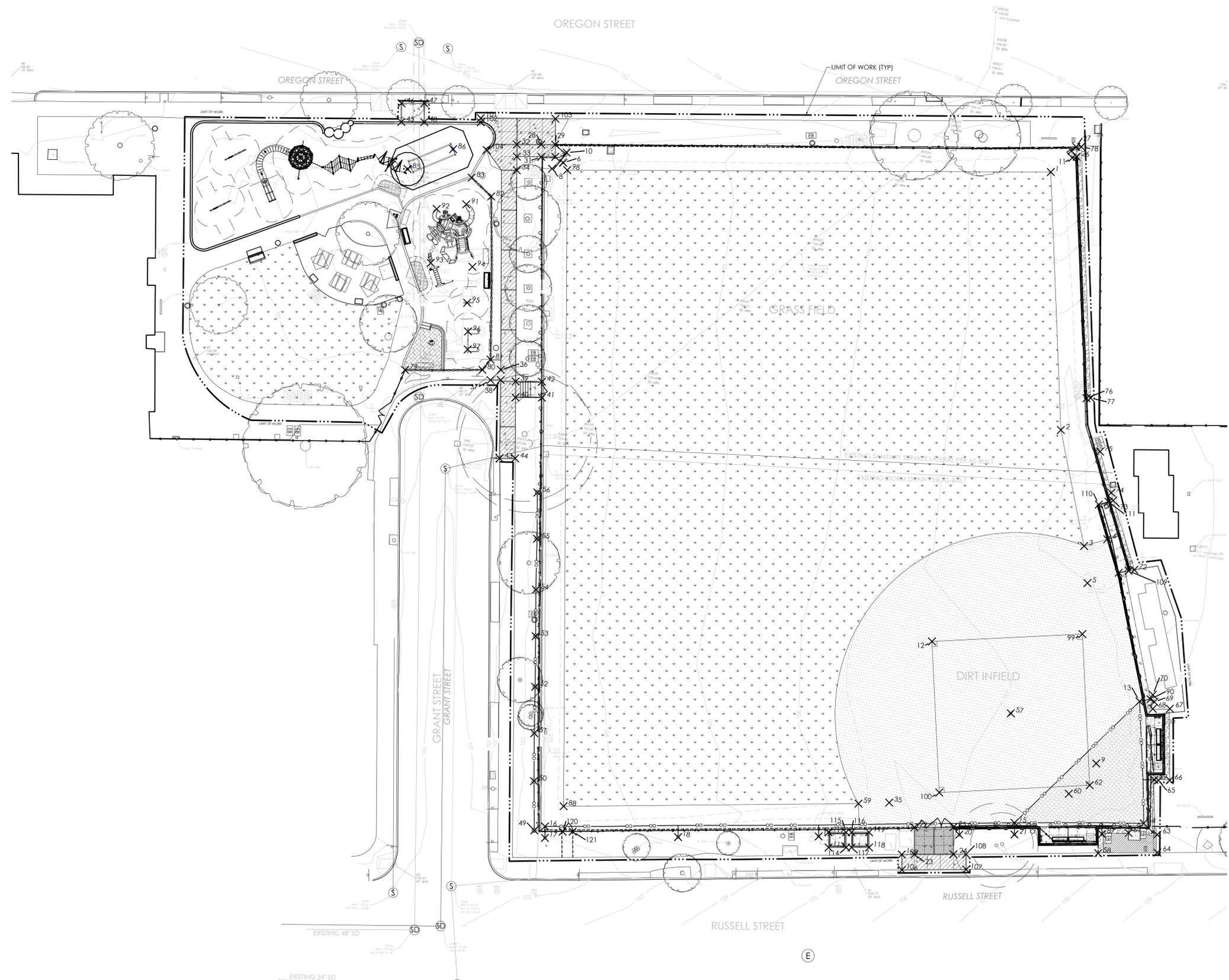
NO.	REVISION	DATE

COB SPECIFICATION NO. 22-11538-C  
CITY PLAN NO. 8256 FILE NO. 406-218

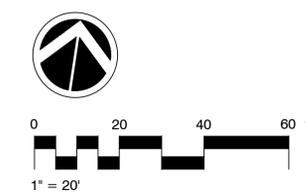
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JS  
**DRAWN BY** SC/RP **CHECKED BY** DC  
**DATE**  
**NOVEMBER 22, 2022**  
**PROJECT NUMBER**  
2211-01-RC21

**SHEET**  
**CH101**

BID SET

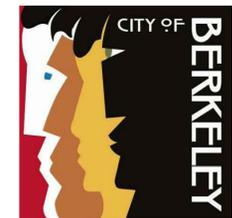


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Point #	Raw Description	Northing	Easting
1	INFIELD	2139301.7479	6050076.9831
2	INFIELD	2139201.1593	6050095.9913
3	INFIELD	2139156.9911	6050111.9228
4	INFIELD	2139161.0244	6050120.6333
5	INFIELD	2139142.6705	6050115.3959
6	SIGN	2139276.8174	6049884.3907
7	INFIELD	2139311.2760	6050083.8530
8	INFIELD	2139273.8350	6049880.3100
9	INFIELD	2139072.4224	6050129.3705
10	INFIELD	2139280.9960	6049885.1320
11	INFIELD	2139308.5920	6050084.6000
12	INFIELD	2139110.6618	6050057.5290
13	NET	2139099.3003	6050142.8332
14	NET	2139051.7111	6050151.5826
15	NET	2139044.3581	6050100.6272
16	NET	2139015.4347	6049915.8880
17	POST	2139010.9207	6049916.5491
18	POST	2139019.0243	6049968.9463
19	POST	2139027.5362	6050024.2862
20	POST	2139036.4556	6050079.5779

Point #	Raw Description	Northing	Easting
21	POST	2139039.7687	6050101.3058
22	CONC	2139036.7301	6050061.4889
23	CONC	2139026.0960	6050063.0520
24	CONC	2139028.4290	6050078.4307
25	CONC	2139039.0715	6050076.8349
26	CONC	2139309.2453	6050086.2587
27	CONC	2139313.0910	6050085.5380
28	CONC	2139282.6487	6049874.6590
29	CONC	2139283.4470	6049880.1760
30	CONC	2139278.6837	6049880.8726
31	CONC	2139277.8760	6049875.3496
32	CONC	2139281.2815	6049865.0164
33	CONC	2139276.4989	6049865.7580
34	CONC	2139271.1710	6049866.5200
35	INFIELD	2139044.9424	6050050.0988
36	CONC	2139191.9780	6049871.8150
37	CONC	2139187.3070	6049868.3820
38	CONC	2139187.9615	6049872.4123
39	CONC	2139188.2495	6049878.3793
40	CONC	2139181.9598	6049879.2740

Point #	Raw Description	Northing	Easting
41	CONC	2139183.4386	6049889.6693
42	CONC	2139189.6983	6049888.7619
43	CONC	2139157.1420	6049876.5390
44	CONC	2139158.0529	6049882.6639
45	CONC	2139283.3434	6049818.1953
46	CONC	2139290.6640	6049817.1830
47	CONC	2139292.0133	6049826.1813
48	CONC	2139284.6404	6049827.2388
49	POST	2139013.2525	6049911.9078
50	POST	2139032.5751	6049908.9193
51	POST	2139051.3697	6049906.2343
52	POST	2139069.6320	6049903.8640
53	POST	2139089.4880	6049901.1030
54	POST	2139107.7673	6049898.4948
55	POST	2139127.8070	6049895.9620
56	POST	2139145.9690	6049893.4300
57	INFIELD	2139087.0851	6050092.8070
58	CONC	2139037.3334	6050135.3799
59	INFIELD	2139042.7546	6050038.0695
60	INFIELD	2139058.9170	6050120.3469

Point #	Raw Description	Northing	Easting
61	CONC	2139047.0673	6050146.1779
62	INFIELD	2139063.5149	6050128.0837
63	CONC	2139048.0387	6050157.5653
64	CONC	2139041.0304	6050158.6333
65	CONC	2139069.4420	6050154.8408
66	CONC	2139070.1401	6050159.3204
67	CONC	2139098.2102	6050155.2008
68	CONC	2139097.1557	6050148.4489
69	CONC	2139099.9677	6050148.6633
70	CONC	2139102.6502	6050147.6956
71	CONC	2139148.5655	6050127.1297
72	CONC	2139150.5941	6050133.1013
73	CONC	2139176.5699	6050120.7162
74	CONC	2139179.4851	6050119.5424
75	CONC	2139195.0081	6050112.7066
76	CONC	2139215.0931	6050104.2319
77	CONC	2139215.4136	6050105.8758
78	CONC	2139313.4594	6050087.5038
79	FENCE	2139186.2763	6049834.1492
80	FENCE	2139190.8630	6049864.5960

Point #	Raw Description	Northing	Easting
81	FENCE	2139195.3380	6049867.2040
82	FENCE	2139259.3878	6049857.9380
83	FENCE	2139265.6377	6049849.1486
84	PLAY	2139263.4995	6049780.6248
85	PLAY	2139265.2280	6049823.3689
86	PLAY	2139275.6838	6049840.1997
87	POST	2139045.0608	6050135.7641
88	INFIELD	2139024.4381	6049922.0543
89	POST	2139069.4367	6050153.2181
90	POST	2139100.8007	6050146.9886
91	PLAY	2139254.8362	6049848.5951
92	PLAY	2139251.2847	6049837.2103
93	PLAY	2139229.8151	6049838.0127
94	PLAY	2139230.6934	6049854.6597
95	PLAY	2139216.2579	6049854.6917
96	PLAY	2139205.0732	6049856.7025
97	PLAY	2139198.0070	6049857.6160
98	INFIELD	2139274.1836	6049886.3506
99	INFIELD	2139122.3618	6050116.3772
100	INFIELD	2139051.8083	6050069.2369

Point #	Raw Description	Northing	Easting
101	CONC	2139289.4930	6049849.2610
102	CONC	2139287.8359	6049849.5179
103	CONC	2139293.6258	6049878.7302
104	CONC	2139277.2971	6049853.4722
105	CONC	2139025.3171	6050058.0999
106	CONC	2139019.2743	6050059.0504
107	CONC	2139023.1943	6050084.2985
108	CONC	2139029.1787	6050083.3732
109	CONC	2139149.8809	6050130.9163
110	CONC	2139174.1223	6050115.2873
111	CONC	2139175.8054	6050118.9158
112	CONC	2139029.7267	6050027.9281
113	CONC	2139023.7919	6050028.8107
114	CONC	2139024.8216	6050035.7346
115	CONC	2139030.7564	6050034.8520
116	CONC	2139031.0726	6050036.9789
117	CONC	2139025.1379	6050037.8615
118	CONC	2139026.1676	6050044.7853
119	CONC	2139032.1023	6050043.9027
120	GATE	2139014.4090	6049923.1410

Point #	Raw Description	Northing	Easting
121	GATE	2139015.0320	6049927.0925

**NOTE**

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NO.	REVISION	DATE

COB SPECIFICATION NO. 22-11538-C  
CITY PLAN NO. 8256 FILE NO. 406-218

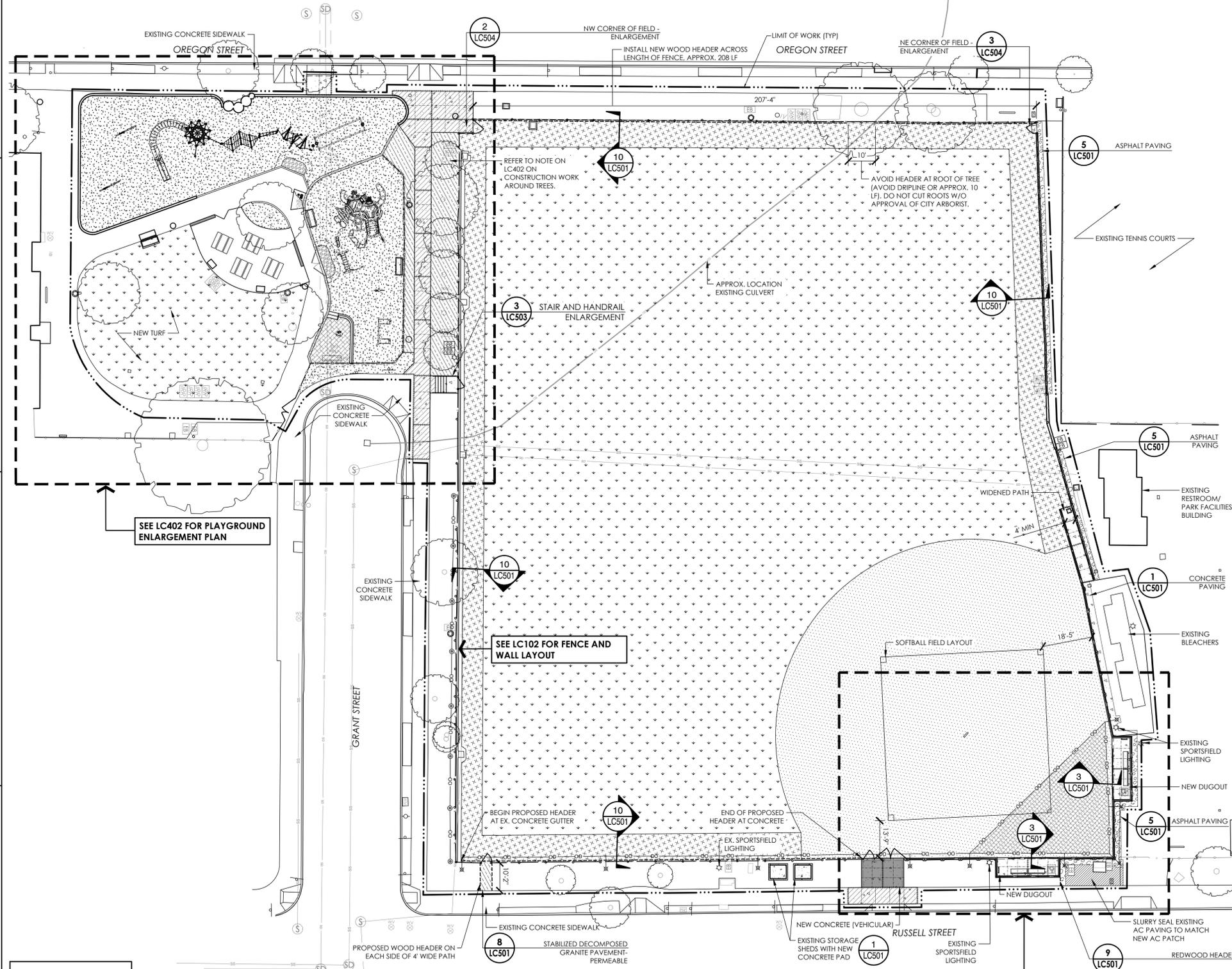
**PROJECT MANAGER**  
JS  
**DRAWN BY** SC/RP **CHECKED BY** DC  
**DATE**  
**NOVEMBER 22, 2022**  
**PROJECT NUMBER**  
2211-01-RC21  
**SHEET**

**CH102**

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**NOTES**

1. SEE SHEET G002 FOR SYMBOL LEGEND.
2. SEE CH SERIES SHEETS FOR LAYOUT PLAN.
3. SEE SHEET LC102 FOR FENCE AND WALL LAYOUT.
4. CONTRACTOR TO INCLUDE MANUFACTURER RECOMMENDED PLAY EQUIPMENT FOOTINGS COSTS AS PART OF THE BID.
5. SEE CG SERIES SHEETS FOR GRADING AND DRAINAGE PLAN.
6. SEE S SERIES FOR STRUCTURAL NOTES AND DETAILS.

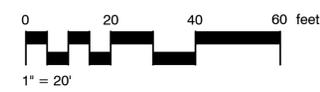


SEE LC102 FOR FENCE & WALL LAYOUT PLAN

BID ALTERNATE SUMMARY		
NO.	DESCRIPTION	REFERENCE
1	BASE BID: INSTALL TURF SOD. (DEDUCT) REMOVE SOD SCOPE & REPLACE WITH TURF GRASS SEED INSTALLATION.	LC101/LP101

**MATERIALS LEGEND**

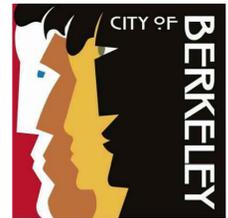
SYMBOL	TYPE	DESCRIPTION	DETAIL(S)
	ASPHALT PAVING	SEE DETAIL	5 LC501
	CONCRETE STANDARD	MEDIUM BROOM FINISH, JOINTS PER PLAN	1 LC501
	VEHICULAR CONCRETE	MEDIUM BROOM FINISH, JOINTS PER PLAN, SEE DETAIL	1 LC501
	CITY STANDARD CONCRETE SIDEWALK	MEDIUM BROOM FINISH, JOINTS PER PLAN, SEE DETAIL	1 LC501
	EXPANSION JOINT	SAWCUT JOINTS AS SHOWN ON PLAN	2 LC501
	THICKENED CONCRETE EDGE	AT ALL CONCRETE PAVING EDGES ADJACENT TO NON-HARDSCAPE AREAS	3 LC501
	REDWOOD HEADER	SEE SPECIFICATIONS	9 LC501
	INFIELD MIX	SEE SPECIFICATIONS.	6 LC501
	TURF	SEE SHEET P101. REFER TO BID ALTERNATE #1	
	STABILIZED DECOMPOSED GRANITE	REFER TO NOTE ON LC402. SEE SPECIFICATIONS.	7 LC501
	ENGINEERED WOOD FIBER	SEE DETAILS	4 LC501
	SAND	PLAYGROUND SAND, SEE SPECIFICATIONS.	
	PROTECTIVE RUBBER SURFACING	SEE DETAILS	11 LC501
	BALL FIELD WARNING TRACK	DECOMPOSED GRANITE, SEE DETAILS	10 LC501
	EXISTING TREE TO REMAIN	SEE SHEET DM001 FOR TREE PROTECTION NOTES	
	FENCE - TYPE 1	SEE SHEET LC102 FENCE & WALL LAYOUT PLAN	
	FENCE - TYPE 2	SEE SHEET LC102 FENCE & WALL LAYOUT PLAN	
	FENCE - TYPE 3	SEE SHEET LC102 FENCE & WALL LAYOUT PLAN	
	FENCE - TYPE 4	SEE SHEET LC102 FENCE & WALL LAYOUT PLAN	
	PROPOSED NETTING	SEE SHEET LC102 FENCE & WALL LAYOUT PLAN	
	CONCRETE CURB WALL	SEE SHEET LC102 FENCE & WALL LAYOUT PLAN	
	PROPOSED POST FOR NETTING	SEE SHEET LC102 FOR POST TYPE AND HEIGHT	1 LC505
	EXISTING POST FOR NETTING		
	PROPOSED NETTING OVER BACKSTOP	SEE SPECIFICATIONS	
	EXISTING PRE-FABRICATED METAL FENCE	TO REMAIN	
	EXISTING CHAIN LINK FENCE	TO REMAIN	
	WOOD RETAINING EDGE		6 LC504



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**GROVE PARK FIELD AND PLAYGROUND RENOVATIONS**  
2828 Martin Luther King Jr. Way, Berkeley, CA 94703  
**CONSTRUCTION PLAN**

NO.	REVISION	DATE

COB SPECIFICATION NO. 22-11538-C  
CITY PLAN NO. 8256 FILE NO. 406-218  
PROJECT MANAGER  
DRAWN BY JS  
CHECKED BY JS  
DATE  
NOVEMBER 22, 2022  
PROJECT NUMBER  
2211-01-RC21  
SHEET

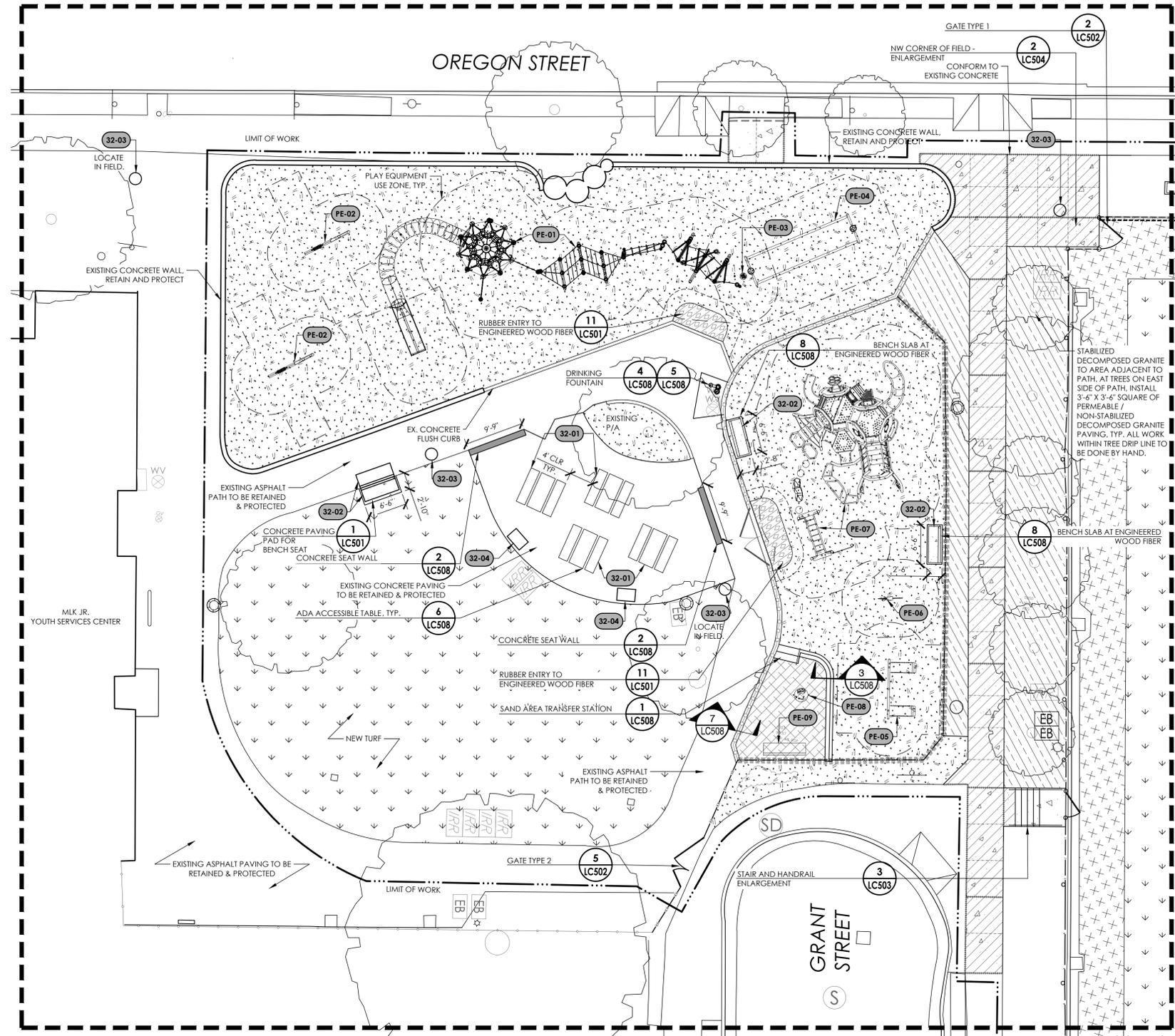
**LC101**

BID SET





AN ENGINEERING PERMIT WILL BE REQUIRED FOR ANY WORK IN THE PUBLIC RIGHT-OF-WAY, INCLUDING BUT NOT LIMITED TO CONSTRUCTION STAGING, RESERVED CONSTRUCTION PARKING, SIDEWALK, DRAINAGE, OR SEWER WORK. APPROVAL OF THIS BUILDING PERMIT DOES NOT AUTHORIZE WORK IN THE PUBLIC RIGHT-OF-WAY.



**MATERIALS LEGEND**

SYMBOL	TYPE	DESCRIPTION	DETAIL(S)
	CONCRETE STANDARD	MEDIUM BROOM FINISH, JOINTS PER PLAN.	1 LC501
	VEHICULAR CONCRETE	MEDIUM BROOM FINISH, JOINTS PER PLAN. SEE DETAIL.	1 LC501
	CITY STANDARD CONCRETE SIDEWALK	MEDIUM BROOM FINISH, JOINTS PER PLAN. SEE DETAIL.	1 LC501
	THICKENED CONCRETE EDGE	AT ALL CONCRETE PAVING EDGES ADJACENT TO NON-HARDSCAPE AREAS	3 LC501
	ENGINEERED WOOD FIBER	SEE DETAIL.	4 LC501
	SAND	PLAYGROUND SAND, SEE SPECIFICATIONS.	
	TURF	SEE SPECIFICATIONS, REFER TO BID ALTERNATE #1	
	PROTECTIVE RUBBER SURFACING	SEE DETAIL.	11 LC501
	STABILIZED DECOMPOSED GRANITE	REFER TO NOTE ON PLAN. SEE SPECIFICATIONS.	7 LC501
	BALL FIELD WARNING TRACK	DECOMPOSED GRANITE. SEE DETAILS.	10 LC501
	EXISTING TREE TO REMAIN	SEE SHEET DM001 FOR TREE PROTECTION NOTES	
	EXISTING PRE-FABRICATED METAL FENCE	TO REMAIN	
	EXISTING CHAIN LINK FENCE	TO REMAIN	
	WOOD RETAINING EDGE		6 LC504

**NOTES**

- SEE SHEET G002 FOR SYMBOL LEGEND.
- SEE CH SERIES SHEETS FOR LAYOUT PLAN.
- SEE SHEET LC101 FOR MATERIALS.
- SEE SHEET LC102 FOR FENCE AND WALL IMPROVEMENTS.
- SEE CG SERIES SHEETS FOR GRADING AND DRAINAGE PLAN.
- SEE S SERIES SHEETS FOR STRUCTURAL NOTES AND DETAILS.

**REFERENCE NOTES**

SYMBOL	32 EXTERIOR IMPROVEMENTS DESCRIPTION	QTY	DETAIL
	TABLE, ADA PER SPECIFICATIONS	4	6/LC508
	BENCH - TYPE 1, PER SPECIFICATIONS	4	8/LC508
	TRASH RECEPTACLE, PER SPECIFICATIONS	4	
	BBQ GRILL, PER SPECIFICATIONS	2	

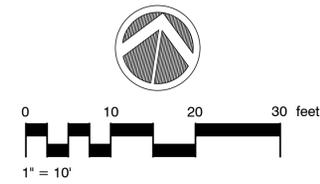
SYMBOL	PLAY EQUIPMENT DESCRIPTION	QTY	DETAIL
	BERLINER 5-12 YR STRUCTURE		
	BERLINER ELBOW SWING		
	BURKE STEPPING POD		
	BURKE TRACK RIDE		
	LANDSCAPE STRUCTURES BUCKET SWINGS		
	LANDSCAPE STRUCTURES ROCKER		
	LANDSCAPE STRUCTURES 2-5 YR STRUCTURE		
	LANDSCAPE STRUCTURES FOSSIL		

**PLAY COMPONENTS AT 2-5 YR PLAY**

	TOTAL	REQUIRED MINIMUM FOR 11 TO 13 ELEVATED COMPONENTS
ELEVATED PLAY COMPONENTS	12	
GROUND-LEVEL PLAY COMPONENTS ON ACCESSIBLE ROUTE	14	4
DIFFERENT TYPES OF GROUND-LEVEL PLAY COMPONENTS ON ACCESSIBLE ROUTE	9	9

**PLAY COMPONENTS AT 5-12 YR PLAY**

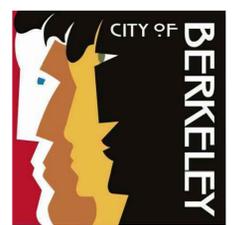
	TOTAL	REQUIRED MINIMUM FOR 2 TO 4 ELEVATED COMPONENTS
ELEVATED PLAY COMPONENTS	2	
GROUND-LEVEL PLAY COMPONENTS ON ACCESSIBLE ROUTE	10	1
DIFFERENT TYPES OF GROUND-LEVEL PLAY COMPONENTS ON ACCESSIBLE ROUTE	4	1



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**GROVE PARK FIELD AND PLAYGROUND RENOVATIONS**  
2828 Martin Luther King Jr. Way, Berkeley, CA 94703  
**CONSTRUCTION PLAN**  
**PLAYGROUND AREA ENLARGEMENT**

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CITY PLAN NO. 8256 FILE NO. 406-218  
PROJECT MANAGER  
DRAWN BY JS  
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**NOVEMBER 22, 2022**  
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2211-01-RC21  
SHEET

**LC402**

BID SET

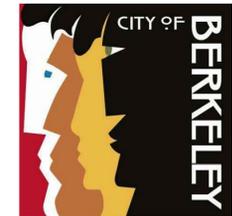




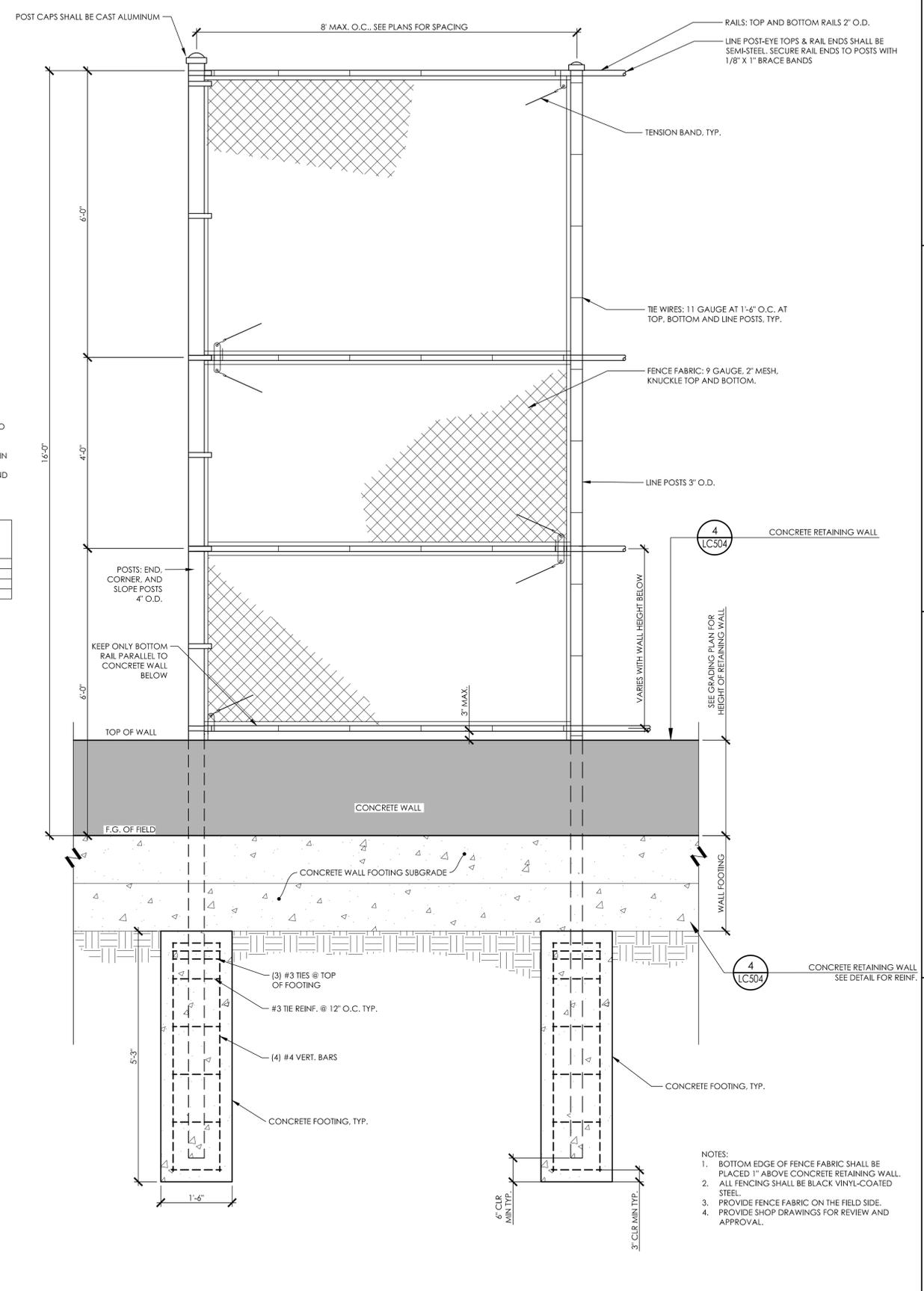
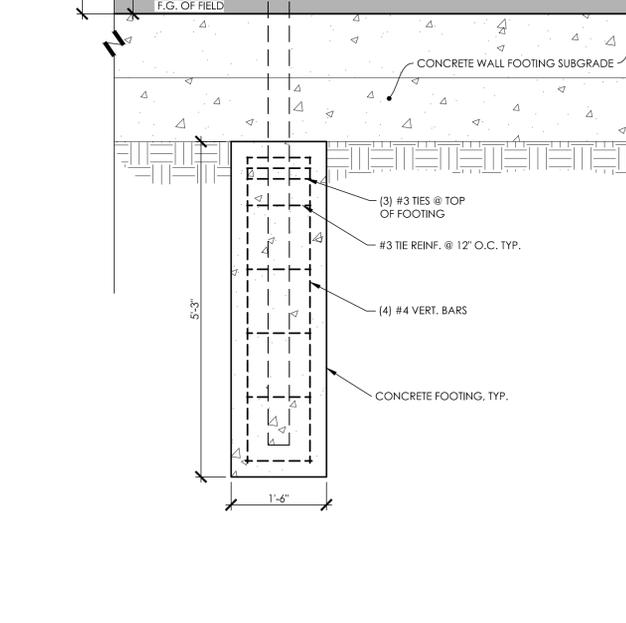
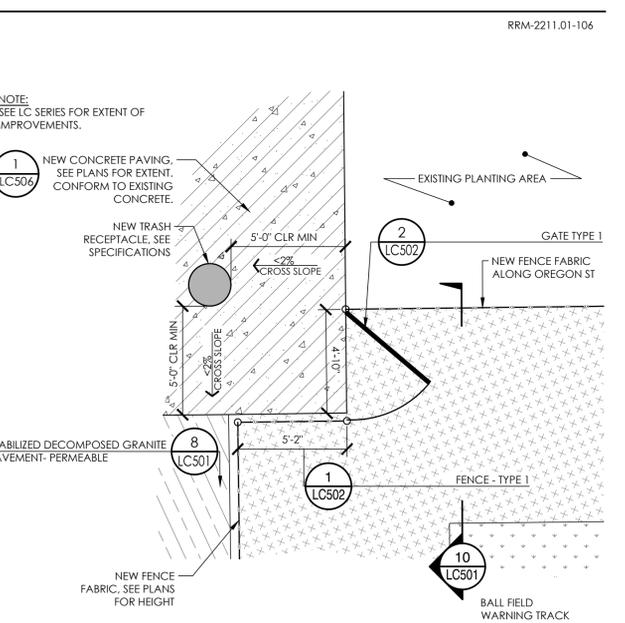
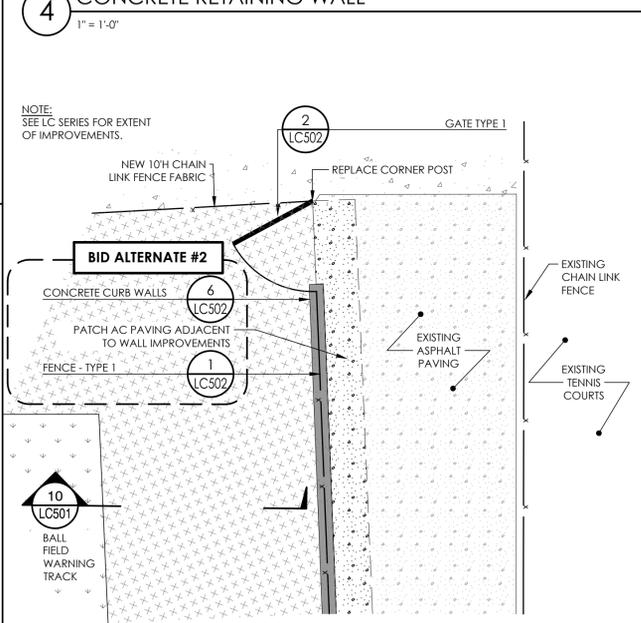
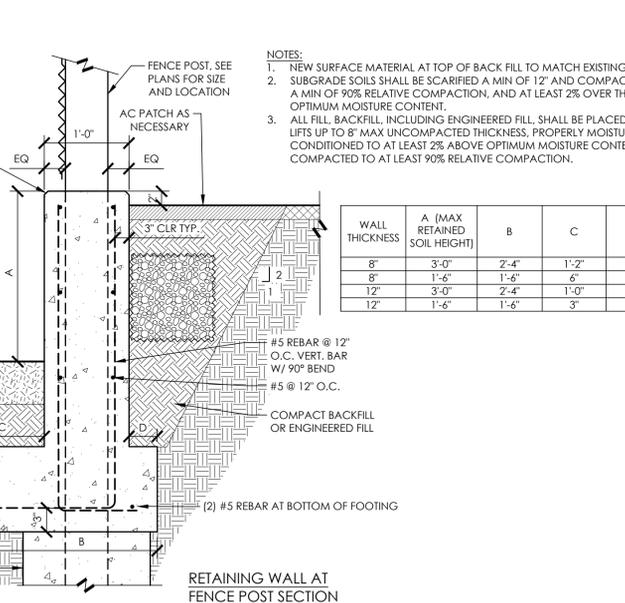
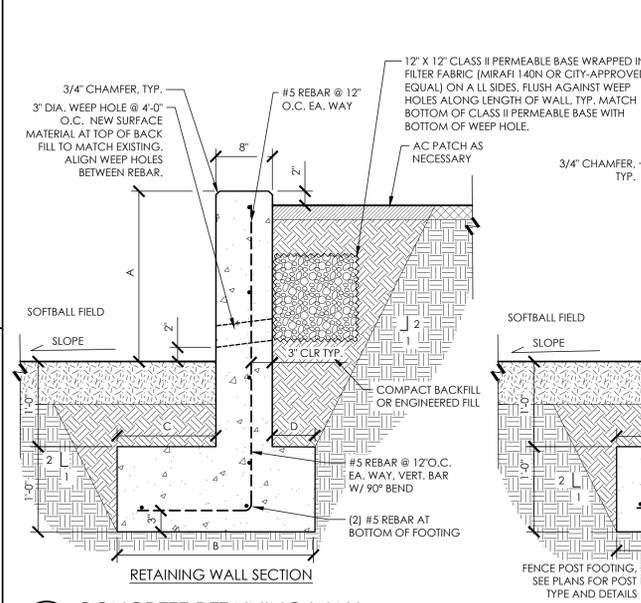
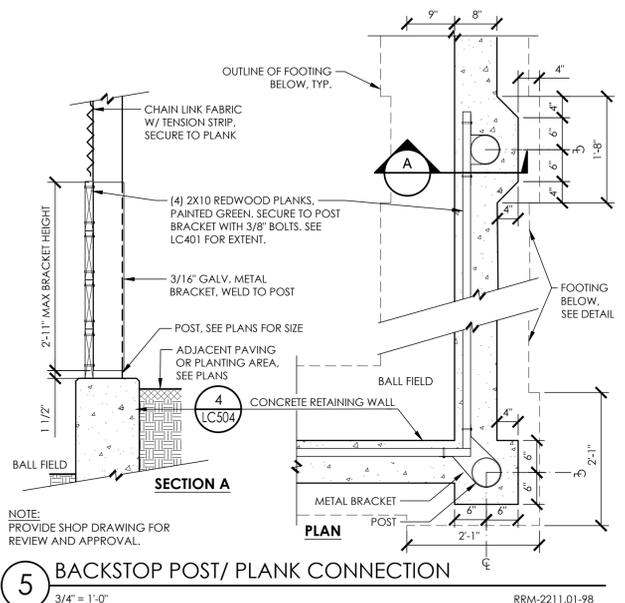
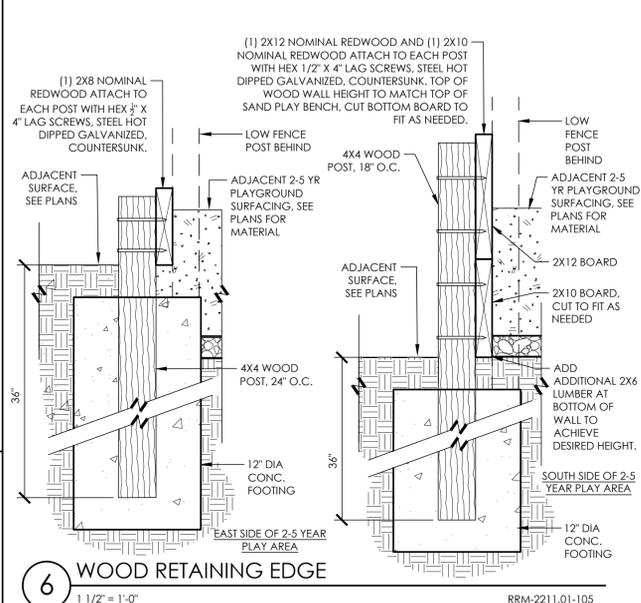




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**GROVE PARK AND PLAYGROUND RENOVATIONS**  
2828 Martin Luther King Jr. Way, Berkeley, CA 94703  
**CONSTRUCTION DETAILS**



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COB SPECIFICATION NO. 22-11538-C  
CITY PLAN NO. 8256 FILE NO. 406-218

**PROJECT MANAGER**  
JS

**DRAWN BY**  
YI

**CHECKED BY**  
JS

**DATE**  
NOVEMBER 22, 2022

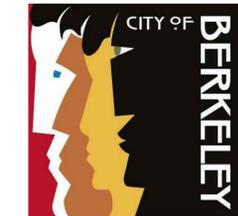
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2211-01-RC21

**SHEET**  
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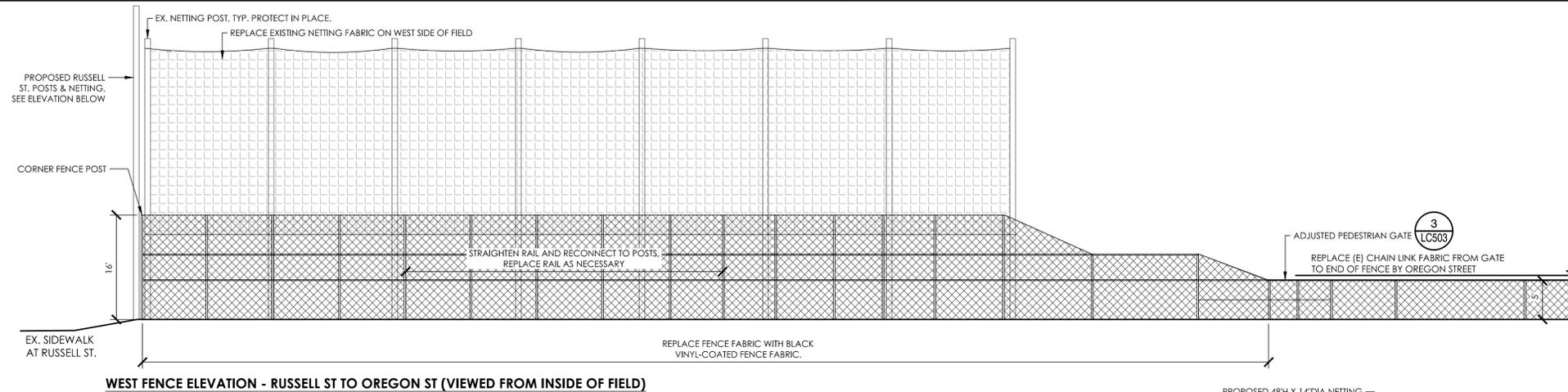
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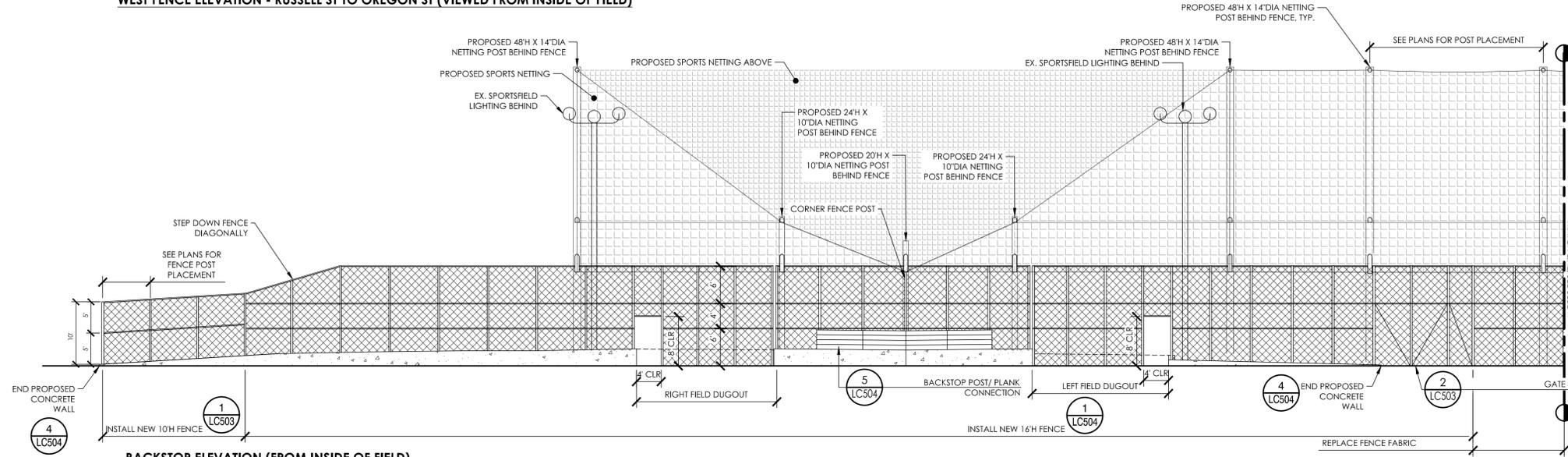
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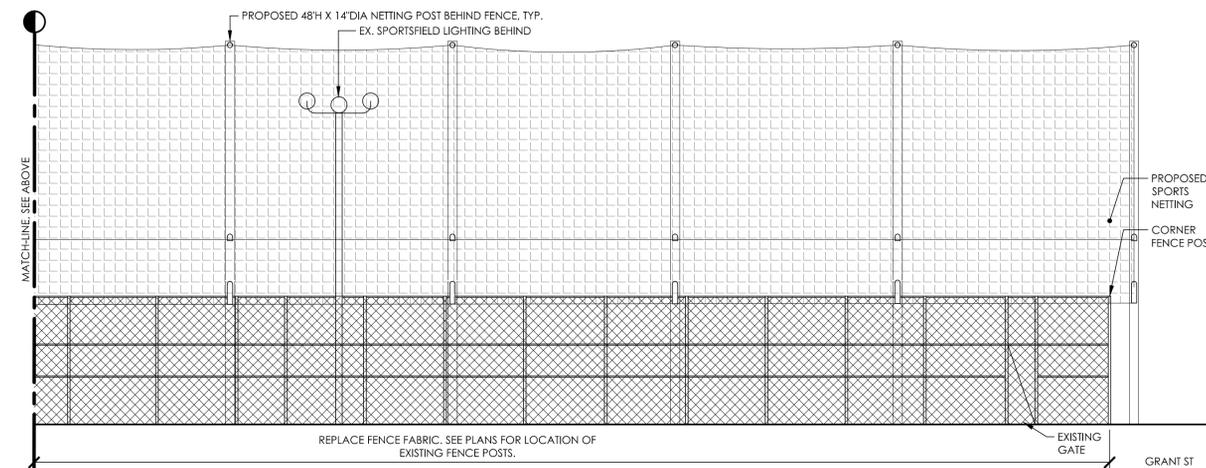
**GROVE PARK FIELD AND PLAYGROUND RENOVATIONS**  
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**CONSTRUCTION DETAILS**



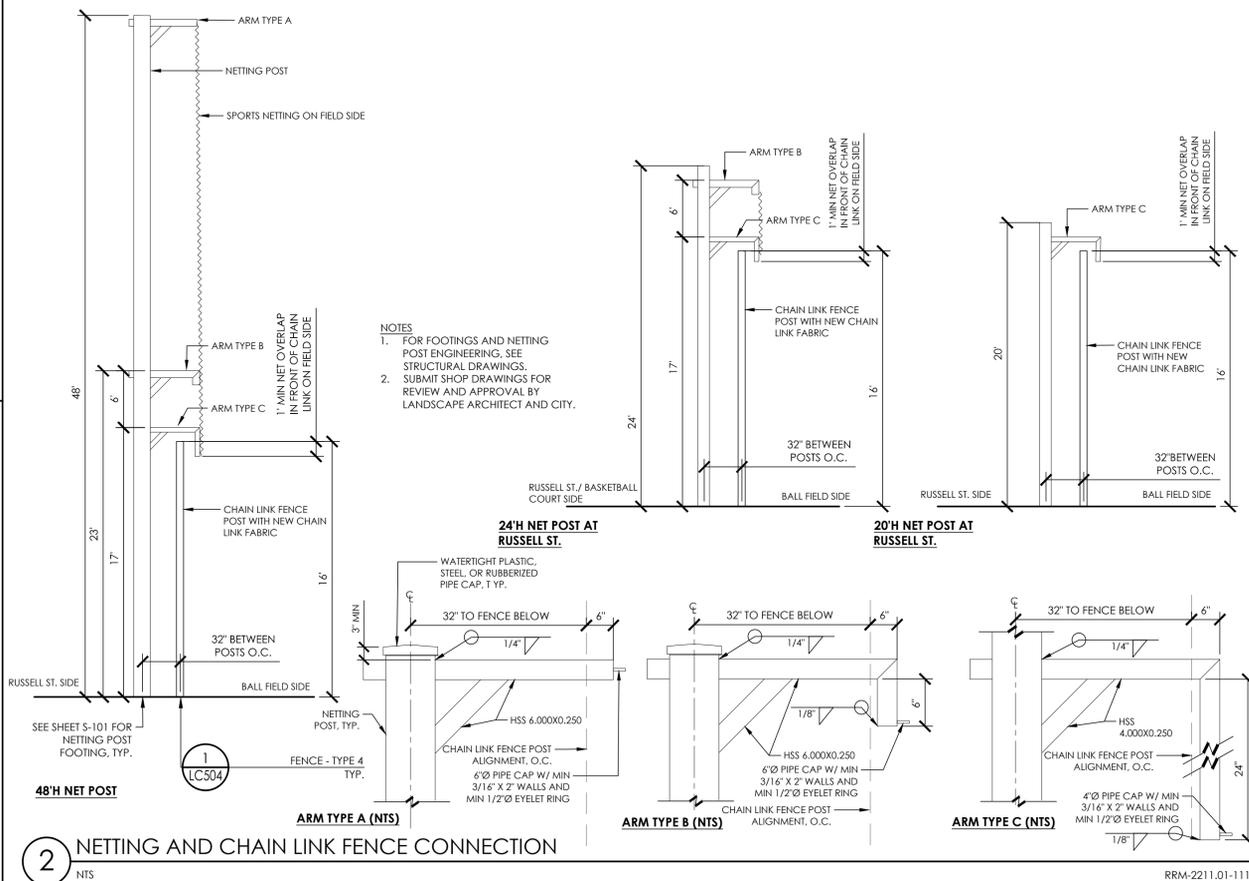
**WEST FENCE ELEVATION - RUSSELL ST TO OREGON ST (VIEWED FROM INSIDE OF FIELD)**



**BACKSTOP ELEVATION (FROM INSIDE OF FIELD)**



**BACKSTOP ELEVATION (FROM INSIDE OF FIELD) CONTINUED**



**2 NETTING AND CHAIN LINK FENCE CONNECTION**

**1 NETTING AND BACKSTOP ELEVATION**

- NOTES**
- FOR FOOTINGS AND NETTING POST ENGINEERING, SEE STRUCTURAL DRAWINGS.
  - BALL CONTAINMENT NETTING SHALL BE CONTINUOUS, SINGLE RUN PIECE BETWEEN END POSTS.
  - SUBMIT SHOP DRAWINGS FOR REVIEW AND APPROVAL BY LANDSCAPE ARCHITECT AND CITY, INCLUDING ALL NETTING POSTS, NETS, NET CABLES, NET CONNECTION, FENCES, GATES, BACKSTOP, AND BACKSTOP CONNECTIONS. SHOP DRAWINGS TO INCLUDE LAYOUT PLANS, ELEVATIONS, AND DETAILS OF THE ABOVE LISTED SCOPE.
  - BALL NET POSTS AND ATTACHMENTS TO BE DEFERRED SUBMITTAL.

NO.	REVISION	DATE

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CITY PLAN NO. 8256 FILE NO. 406-218

**PROJECT MANAGER**  
JS

**DRAWN BY** YI      **CHECKED BY** JS

**DATE**  
**NOVEMBER 22, 2022**

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2211-01-RC21

**SHEET**  
**LC505**

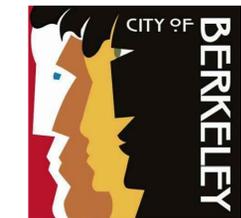
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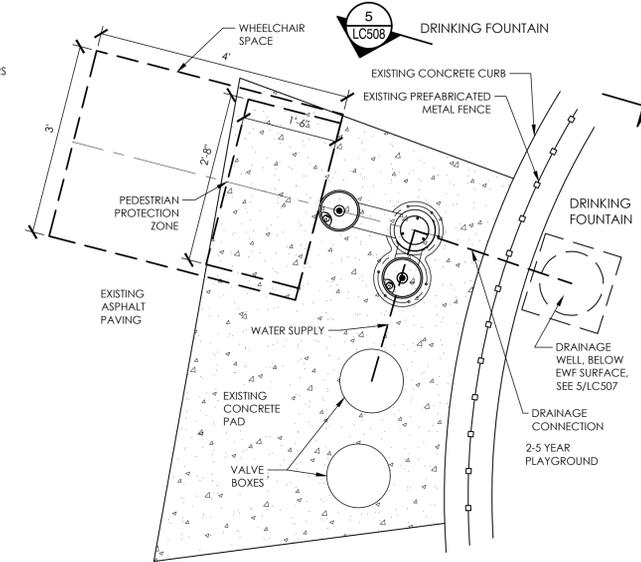




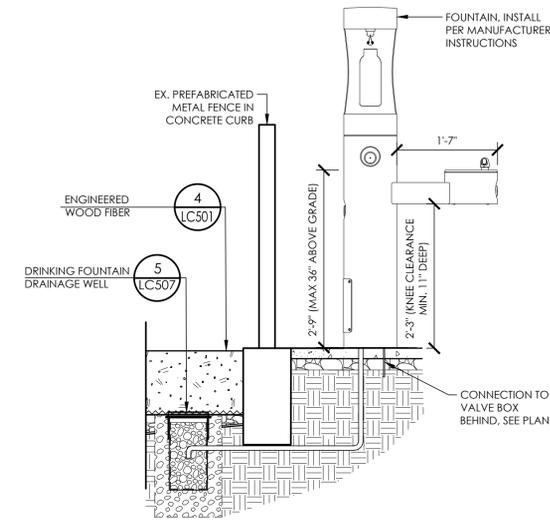
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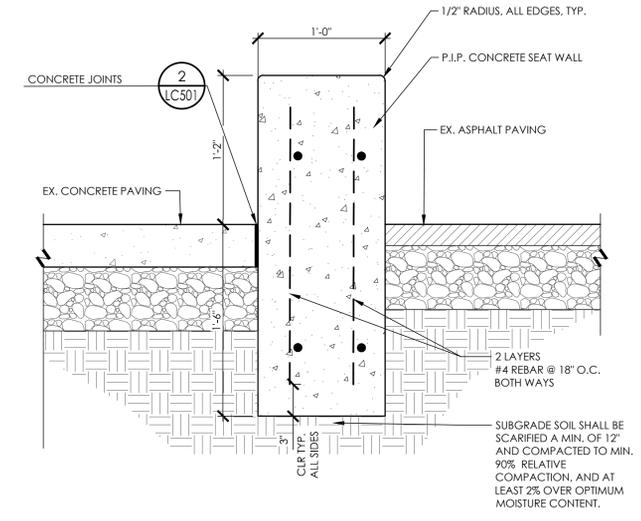
**GROVE PARK FIELD AND  
PLAYGROUND RENOVATIONS**  
2828 Martin Luther King Jr. Way, Berkeley, CA 94703  
**CONSTRUCTION DETAILS**



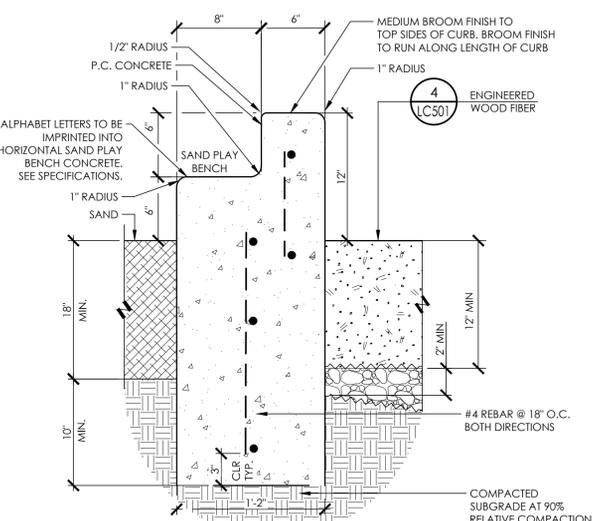
**4 DRINKING FOUNTAIN PLAN ENLARGEMENT**  
3/4" = 1'-0" RRM-2211.01-09



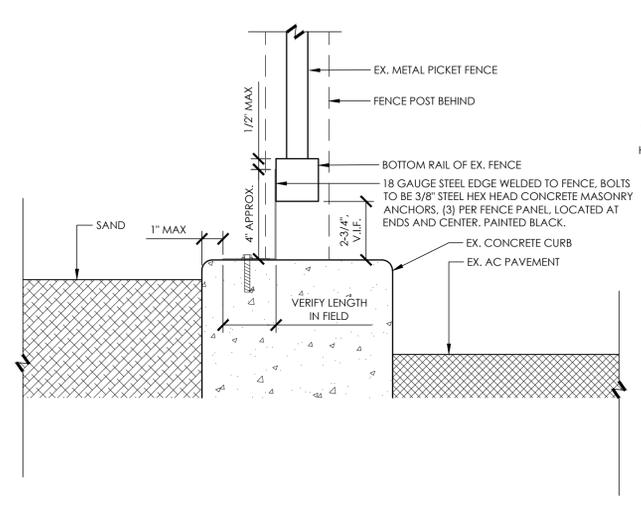
**5 DRINKING FOUNTAIN**  
3/4" = 1'-0" RRM-2211.01-96



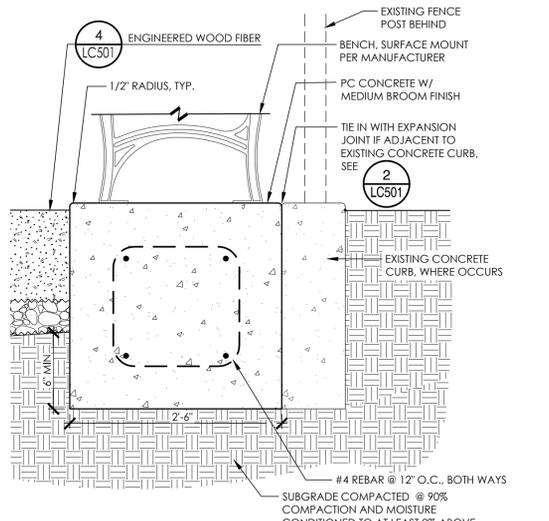
**2 CONCRETE SEAT WALL**  
1 1/2" = 1'-0" RRM-2211.01-17



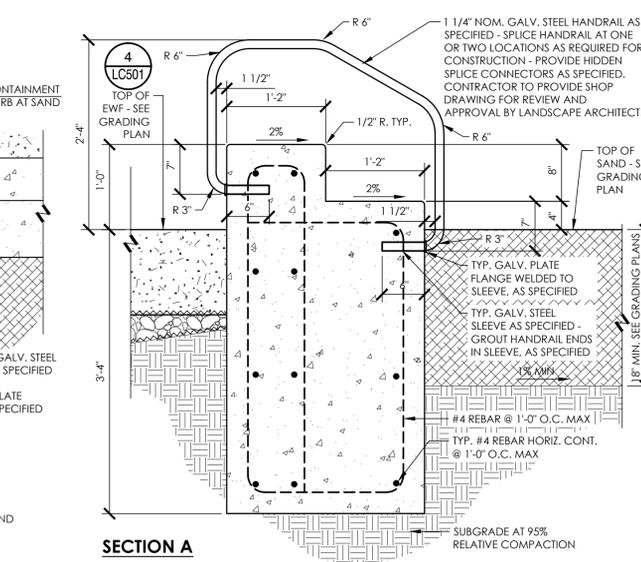
**3 CONTAINMENT CURB AT SAND**  
1 1/2" = 1'-0" RRM-2211.01-36



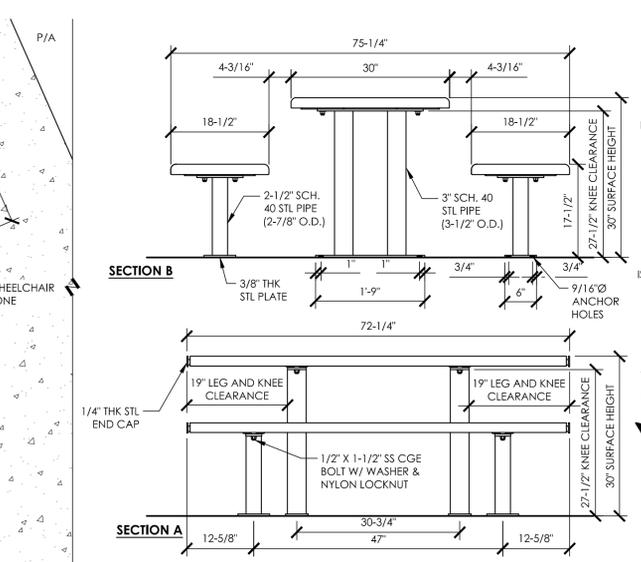
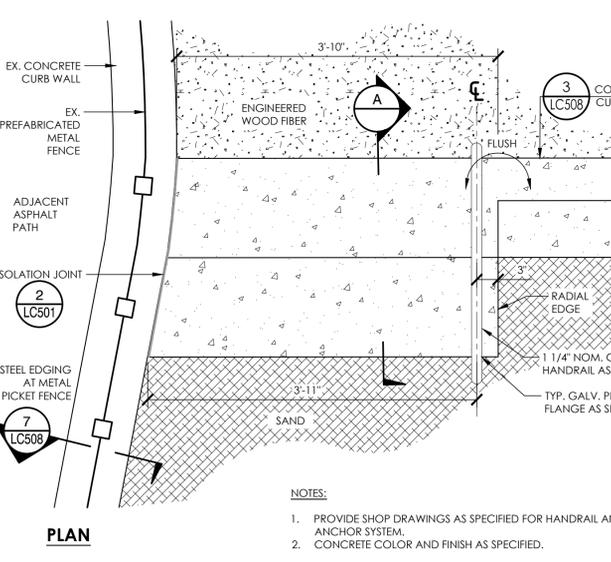
**7 STEEL EDGING AT METAL PICKET FENCE**  
3" = 1'-0" RRM-2211.01-110



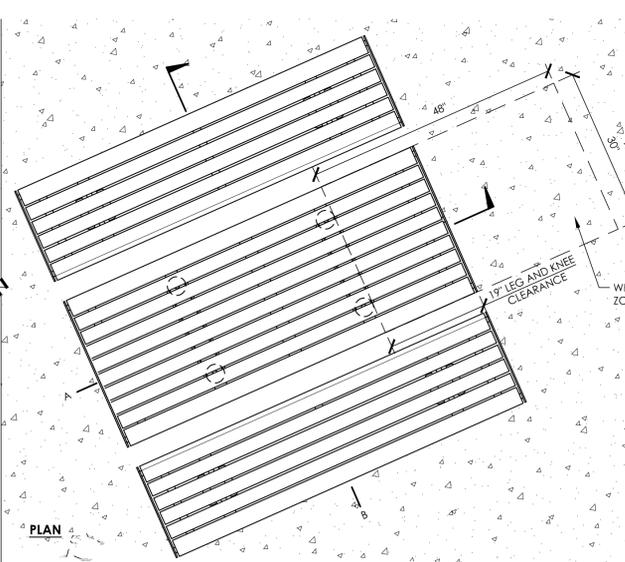
**8 BENCH SLAB AT ENGINEERED WOOD FIBER**  
1" = 1'-0" RRM-2211.01-71



**1 SAND AREA TRANSFER STATION**  
1" = 1'-0" RRM-2211.01-01



**6 ADA ACCESSIBLE TABLE**  
3/4" = 1'-0" RRM-2211.01-01



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**PROJECT MANAGER**  
JS

**DRAWN BY** YI **CHECKED BY** JS

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**PROJECT NUMBER**  
2211-01-RC21

**SHEET**  
LC508

BID SET

**STRUCTURAL OBSERVATIONS**

- IN ACCORDANCE WITH SECTION 1704.6 OF THE CODE STRUCTURAL OBSERVATIONS SHALL BE PERFORMED FOR THE FOLLOWING ELEMENTS OF CONSTRUCTION:
  - FOUNDATION REINFORCING
- THE OBJECTIVE OF THE STRUCTURAL OBSERVATION IS TO BECOME FAMILIAR WITH THE PROGRESS AND QUALITY OF THE CONTRACTOR'S WORK AND DETERMINE IF THE WORK IS BEING COMPLETED IN GENERAL CONFORMANCE WITH THE APPROVED PLANS AND SPECIFICATIONS
  - STRUCTURAL OBSERVATIONS ARE NOT INSPECTIONS AND SHALL NOT BE USED AS A REPLACEMENT FOR THE SPECIAL INSPECTIONS REQUIRED BY THE CODE OR REFERENCED STANDARD OR FOR SPECIAL INSPECTIONS REQUIRED IN THIS DOCUMENT.
  - THE PERSON COMPLETING THE STRUCTURAL OBSERVATIONS DOES NOT HAVE RESPONSIBILITY FOR ANY ACTS OR OMISSIONS BY THE CONTRACTOR OR OF ANY OTHER ENTITY PROVIDING MATERIALS OR SERVICES ON THE PROJECT.
- ADEQUATE NOTIFICATION SHALL BE PROVIDED TO THE STRUCTURAL ENGINEER PERFORMING OBSERVATIONS, A MINIMUM OF (2) WORKING DAYS, PRIOR TO OBSERVATION OF THE WORK.

**STATEMENT OF SPECIAL INSPECTIONS**

- THIS STATEMENT OF SPECIAL INSPECTIONS HAS BEEN PREPARED PURSUANT TO SECTION 1703.3 OF THE CODE. THIS SECTION DETAILS BOTH REQUIRED SPECIAL INSPECTIONS AND TESTS INCLUDING TESTING PER SECTION 1705 OF THE CODE. THE FOLLOWING SHALL BE OBSERVED DURING THEIR IMPLEMENTATION:
  - GENERAL:
    - STRUCTURAL VERIFICATIONS, INSPECTIONS AND TESTS SHALL BE PERFORMED IN ACCORDANCE WITH CHAPTER 17 OF THE CODE AND/OR THE APPLICABLE REFERENCE STANDARD.
  - OWNER REQUIREMENTS:
    - THE OWNER OR OWNER'S AGENT SHALL EMPLOY ONE OR MORE APPROVED AGENCIES TO PERFORM INSPECTIONS DURING CONSTRUCTION ON THE TYPES OF WORK LISTED IN SECTION 1705 OF THE CODE AND IN THIS STATEMENT OF INSPECTIONS.
  - SPECIAL INSPECTOR QUALIFICATIONS:
    - THE SPECIAL INSPECTIONS SHALL PROVIDE WRITTEN DOCUMENTATION TO THE BUILDING OFFICIAL DEMONSTRATING HIS OR HER COMPETENCE AND RELEVANT EXPERIENCE OR TRAINING. THE EXPERIENCE OR TRAINING SHALL BE CONSIDERED RELEVANT WHEN THE DOCUMENTED EXPERIENCE OR TRAINING IS RELATED IN COMPLEXITY TO THE SAME TYPE OF SPECIAL INSPECTION ACTIVITIES FOR PROJECTS OF SIMILAR COMPLEXITY AND MATERIAL QUANTITIES.
  - CONTRACTOR REQUIREMENTS:
    - SPECIAL INSPECTION IS IN ADDITION TO THE CONTRACTOR'S QUALITY CONTROL INSPECTIONS AND TESTING. THE CONTRACTOR'S QUALITY CONTROL INSPECTIONS AND TESTING SHALL OCCUR PRIOR TO SPECIAL INSPECTION AND REPORTS SHALL BE AVAILABLE TO THE SPECIAL INSPECTOR.
    - THE CONTRACTOR SHALL ENSURE THAT THE WORK FOR WHICH SPECIAL INSPECTION IS REQUIRED REMAINS ACCESSIBLE AND EXPOSED FOR SPECIAL INSPECTION PURPOSES UNTIL COMPLETION OF THE REQUIRED SPECIAL INSPECTION.
    - ANY CONTRACTOR RESPONSIBLE FOR THE CONSTRUCTION OF THE MAIN WIND OR SEISMIC FORCE RESISTING SYSTEM SHALL SUBMIT A WRITTEN STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL AND OWNER PRIOR TO COMMENCEMENT OF WORK ON THE SYSTEM OR COMPONENT. THE STATEMENT OF RESPONSIBILITY SHALL CONTAIN ACKNOWLEDGEMENT OF AWARENESS OF THE SPECIAL INSPECTION REQUIREMENTS CONTAINED IN THE STATEMENT OF SPECIAL INSPECTIONS.
- SPECIAL INSPECTOR REPORT REQUIREMENTS:
  - THE SPECIAL INSPECTOR SHALL KEEP RECORD OF INSPECTIONS
  - THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL AND TO THE ARCHITECT AND ENGINEER OF RECORD.
  - REPORTS SHALL INDICATE THAT WORK INSPECTED WAS OR WAS NOT COMPLETED IN CONFORMANCE TO APPROVED CONSTRUCTION DOCUMENTS.
  - DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION.
  - IF NOT CORRECTED DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE BUILDING OFFICIAL AND THE ARCHITECT AND ENGINEER OF RECORD PRIOR TO THE COMPLETION OF THAT PHASE OF WORK.
  - A FINAL REPORT DOCUMENTING SPECIAL INSPECTIONS AND CORRECTION OF ANY DISCREPANCIES NOTED SHALL BE SUBMITTED TO THE BUILDING OFFICIAL.

**SUBMITTALS**

- THE FOLLOWING SUBMITTALS SHALL BE SUBMITTED FOR REVIEW AND APPROVAL BY THE ENGINEER:
  - STEEL INCLUDING MISC. METALS
    - SHOP DRAWINGS FOR FABRICATION AND ERECTION
    - WPS'S (INCLUDING PQR'S AS APPLICABLE)
    - REINFORCING STEEL
    - SHOP DRAWINGS FOR FABRICATION AND PLACEMENT
- BEFORE SUBMITTING EACH SUBMITTAL (INCLUDES SHOP DRAWINGS, PRODUCT DATA, SAMPLES AND SIMILAR SUBMITTALS), THE CONTRACTOR SHALL HAVE:
  - REVIEWED AND COORDINATED EACH SUBMITTAL WITH OTHER SUBMITTALS AND WITH THE REQUIREMENTS OF THE WORK AND THE CONTRACT DOCUMENTS. THIS INCLUDES THE CONTRACTOR REVIEWING AND VERIFYING THAT THE SUBMITTAL IS COORDINATED AMONG ALL CONSTRUCTION TRADES:
  - DETERMINED AND VERIFIED ALL FIELD MEASUREMENTS, QUANTITIES, DIMENSIONS, SPECIFIED PERFORMANCE AND DESIGN CRITERIA, INSTALLATION REQUIREMENTS, MATERIALS, CATALOG NUMBERS AND SIMILAR INFORMATION
  - DETERMINED AND VERIFIED ALL INFORMATION RELATIVE TO THE CONTRACTOR'S RESPONSIBILITIES FOR MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES OF CONSTRUCTION, AND SAFETY PRECAUTIONS AND PROGRAMS.
  - REVIEWED AND VERIFIED THAT THE ARCHITECTS OR ENGINEER'S COMMENTS FROM PREVIOUS SUBMITTAL ROUNDS HAVE BEEN ADDRESSED.
- EACH SUBMITTAL SHALL BEAR A STAMP OR SPECIFIC WRITTEN CERTIFICATION THAT THE CONTRACTOR HAS SATISFIED THEIR OBLIGATIONS UNDER THE CONTRACT DOCUMENTS WITH RESPECT TO THE CONTRACTOR'S REVIEW AND APPROVAL OF THAT SUBMITTAL.
- THE CONTRACTOR'S OBLIGATION TO PERFORM AND COMPLETE THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS SHALL BE ABSOLUTE:
  - REVIEW AND APPROVAL OF SHOP DRAWINGS BY THE ARCHITECT AND/OR ENGINEER DOES NOT CONSTITUTE APPROVAL OF A CHANGE REQUEST, SUBSTITUTION OR MODIFICATION TO THE CONTRACT DRAWINGS.
  - THE ARCHITECT AND ENGINEER SHALL BE NOTIFIED OF CHANGE REQUESTS, SUBSTITUTIONS OR MODIFICATIONS TO THE CONTRACT DRAWINGS IN WRITING BEFORE AND SEPARATE FROM THE SUBMITTAL PRIOR TO SUBMISSION.
- FABRICATION FOR ITEMS IN THESE DOCUMENTS SHALL NOT COMMENCE UNTIL THE SUBMITTAL HAS BEEN REVIEWED AND APPROVED BY THE ENGINEER.

**REINFORCING STEEL**

- REINFORCING BARS SHALL CONFORM TO THE REQUIREMENTS OF CHAPTER 19 OF THE CODE AND WITH THE PROVISIONS OF ACI 318-14, ASTM A706, GRADE 60 UNO, ASTM A615 GR 60 STEEL MAY BE SUBSTITUTED FOR ASTM A706 GRA60 STEEL PER ACI 318-14 SECTION 20.2.2.5 PROVIDED THE FOLLOWING CONDITIONS ARE MET:
  - THE ACTUAL YIELD STRENGTH BASED ON MILL TESTS DOES NOT EXCEED THE SPECIFIED YIELD STRENGTH BY MORE THAN 18.000 PSI.
  - THE RATIO OF THE ACTUAL ULTIMATE TENSILE STRESS TO THE ACTUAL YIELD STRENGTH IS NOT LESS THAN 1.25.
  - WHERE REINFORCEMENT COMPLYING WITH ASTM A615 IS TO BE WELDED, CHEMICAL TESTS SHALL BE PERFORMED TO DETERMINE WELDABILITY IN ACCORDANCE WITH SECTION 26.4.4 OF ACI 318-14.
- BAR'S SHALL BE CLEAN OF RUST, GREASE, OR OTHER MATERIALS LIKELY TO IMPAIR BOND. ALL REINFORCING BAR BENDS SHALL BE MADE COLD.
- WELDED WIRE REINFORCEMENT (WWR), PLAIN OR DEFORMED, SHALL CONFORM TO ASTM A185. WELDED DEFORMED WIRE REINFORCEMENT (WWR) SHALL CONFORM TO ASTM A1064. ALL WWR FOR STAR PANS AND ALL WWR FOR CONCRETE FILL ON METAL DECK TO BE PLAIN WWR. PROVIDE LAPS PER ACI 318-14 SECTION 25.5.3 OR 25.5.4 MINIMUM. WWR SHALL BE SUPPORTED ON APPROVED CHAIRS.
- REINFORCING BAR LAP SPICES SHALL BE MADE AS INDICATED ON THE DRAWINGS. LAP ALL HORIZONTAL BARS AT CORNERS AND INTERSECTIONS. STAGGER ALL SPICES UNLESS NOTED OTHERWISE ON PLANS.
  - MINIMUM LAP SPICE LENGTH FOR REINFORCING STEEL BARS IN CONCRETE SHALL BE PER ACI 318-14 SECTION 25.5.2 AND THE REINFORCING SCHEDULE ON THE DRAWINGS.
  - MINIMUM LAP SPICE LENGTH FOR REINFORCING STEEL BARS IN MASONRY SHALL BE PER ACI 530-13 SECTION 8.1.6.7.1 OR 9.3.3.4 AND THE REINFORCING SCHEDULE ON THE DRAWINGS.
- ALL BARS SHALL BE MARKED SO THEIR IDENTIFICATION CAN BE MADE WHEN THE FINAL IN-PLACE INSPECTION IS MADE. ALL REINFORCING CONFORMING TO DIFFERING ASTM SPECIFICATIONS AND/OR OF DIFFERING GRADES SHALL BE CLEARLY MARKED TO DIFFERENTIATE THEM FROM OTHER REINFORCING STEEL IF CONCURRENTLY PRESENT ON SITE.
- WHERE WELDING OF REINFORCING IS APPROVED BY THE STRUCTURAL ENGINEER, IT SHALL BE DONE BY AWS CERTIFIED WELDERS USING E60XX OR APPROVED ELECTRODES. WELDING PROCEDURES SHALL CONFORM TO THE REQUIREMENTS OF STRUCTURAL WELDING CODE: REINFORCING STEEL, AWS D1.4-15. REINFORCING BARS TO BE WELDED SHALL CONFORM TO THE REQUIREMENTS OF ASTM A706.
- REINFORCING STEEL SHALL BE ACCURATELY PLACED AND ADEQUATELY SUPPORTED BEFORE THE CONCRETE IS PLACED AND SHALL BE SECURED AGAINST DISPLACEMENT DURING CONSTRUCTION WITHIN PERMITTED TOLERANCES. ADEQUATE SUPPORTS ARE ALSO NECESSARY TO KEEP THE REINFORCING STEEL AT THE PROPER DISTANCE FROM THE FORMS. USE WIRE BAR SUPPORTS, PRECAST CONCRETE SUPPORTS, SPACERS, BOLSTERS, REINFORCEMENT OR OTHER MEANS OF SUPPORT PER THE "CRS" MANUAL OF STANDARD PRACTICE, LATEST EDITION.
- REINFORCING STEEL SHALL BE DETAILED IN ACCORDANCE WITH THE "CRS" MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES, LATEST EDITION.
- COMPLETE AND DETAILED REINFORCING PLACEMENT DRAWINGS SHALL BE PREPARED AND SUBMITTED TO THE ARCHITECT FOR APPROVAL BY THE SEOR PRIOR TO FABRICATION IN ACCORDANCE WITH THE SPECIFICATIONS AND APPLICABLE CODES. THESE DRAWINGS SHALL BE AVAILABLE ON THE JOB SITE PRIOR TO PLACING OF CONCRETE. THE REINFORCING PLACEMENT DRAWINGS SHALL INCLUDE ALL PRIMARY REINFORCEMENT, LAP SPICES, TIES, DOWELS, HEADED U-DOWELS, EMBED PLATES, ANCHOR BOLTS, ETC. AREAS OF CONGESTION SHALL BE DETAILED SUFFICIENTLY TO DEMONSTRATE THAT PLACEMENT OF REBAR MEETS SPACING REQUIREMENTS OF ACI 318-14.
- MILL TEST REPORTS FOR GRADE 60 BARS SHALL BE SUBMITTED TO THE INSPECTOR OF RECORD PRIOR TO PLACEMENT OF CONCRETE PER ACI 318-14 SECTION 26.13.2.3 OF THE CODE.
- WHEN REQ'D, INSPECTION OF CONCRETE SHALL INCLUDE INSPECTION DURING INSTALLATION OF REINFORCING STEEL. INSPECTION SHALL BE SCHEDULED SO THAT PLACEMENT OF REINFORCING STEEL, CONDUIT, SLEEVES, AND EMBEDDED ITEMS MAY BE CORRECTED PRIOR TO PLACEMENT OF OVERLYING GRIDS OR REINFORCING STEEL.
- CONCRETE PROTECTION FOR REINFORCEMENT
 

THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCEMENT IN CAST-IN-PLACE CONCRETE (NON-PRESTRESSED):	MINIMUM COVER, IN.
A. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	3
B. CONCRETE EXPOSED TO EARTH OR WEATHER: NO. 6 THROUGH NO. 18 BAR NO. 5 BAR, W31 OR D31 WIRE & SMALLER	2 1 1/2"
- MECHANICAL BAR SPICE CONNECTIONS SHALL CONFORM TO THE REQUIREMENTS OF ACI 318-14 SECTION 25.5.7 USE OF MECHANICAL CONNECTIONS SHALL BE APPROVED BY THE STRUCTURAL ENGINEER. SPICES MUST BE TESTED AS INDICATED IN THE CONCRETE REINFORCEMENT SPECIFICATION. ACCEPTABLE PRODUCTS INCLUDE:
  - LENTON STANDARD COUPLERS (IAPMO-ES 0129)
  - LENTON FORM SAVERS, TYPE SA (IAPMO-ES 0129)
  - LENTON WELDABLE HALF COUPLERS (IAPMO-ES 0129)
  - LENTON LOCK COUPLERS PER (IAPMO-ES 0129)

NOTE THAT REBAR ATTACHED TO PLATE USING LENTON WELDABLE HALF COUPLERS SHALL BE ASTM A706 PER IAPMO-ES 0129.
- ALL MECHANICAL BAR SPICE CONNECTIONS IN SPECIAL STRUCTURAL WALLS, SPECIAL MOMENT FRAMES AND CONCRETE DIAPHRAGMS SHALL BE TYPE 2 CONFORMING TO THE REQUIREMENTS OF ACI 318-14 SECTION 18.2.7 & 18.12.7.4

**FOUNDATION**

- GEOTECHNICAL INFORMATION AND FOUNDATION DESIGN IS BASED ON THE FOLLOWING GEOTECHNICAL REPORTS AND SUPPLEMENTS/ADDENDUMS. COPIES OF THE REPORTS AND SUPPLEMENTAL LETTERS SHALL BE AVAILABLE AT THE JOBSITE AT ALL TIMES.
 

REPORT/ADDENDUM TITLE	PREPARED BY	DATE	PROJ.#
GEOTECHNICAL INVESTIGATION FOR GROVE PARK RENOVATIONS BERKELEY, CA	BSK ASSOCIATES	07/20/2021	G21-173-11L
- LATERAL EARTH PRESSURES:
 

ACTIVE EARTH PRESSURE (CANTILEVER RETAINING WALLS)
- POLE FOOTINGS:
 

MIN Ø	ALLOWABLE BEARING CAPACITY (PSF) <sup>1</sup>	PASSIVE RESISTANCE (PSF/FT BELOW GRADE)	SKIN FRICTION RESISTANCE (PSF)
18"	2,000	250	670

NOTES:

  - THE ALLOWABLE CAPACITY MAY BE INCREASED BY ONE-THIRD WHEN CONSIDERING LOADS OF SHORT DURATION SUCH AS WIND OR SEISMIC FORCES.
  - THE ALLOWABLE LATERAL RESISTANCE CAN BE TAKEN AS THE SUM OF THE FRICTIONAL RESISTANCE AND PASSIVE RESISTANCE WITH THE LESSER REDUCED BY 33 PERCENT.
  - THE UPPER 1 FOOT OF SOIL NOT PROTECTED BY PAVEMENT SHALL BE NEGLECTED WHEN CALCULATING PASSIVE RESISTANCE.
  - COMPACTED FILL SHOULD BE PREPARED PER THE GRADING SPECIFICATIONS.
- SLAB ON GRADE SUPPORT SHALL BE PER THE GEOTECHNICAL INVESTIGATION REPORT AND TYPICAL DETAILS IN THE CONSTRUCTION DOCUMENTS.
- WHERE NOT SHOWN ON THE DRAWINGS, CONTRACTOR TO PROVIDE FOR DESIGN AND INSTALLATION OF ALL CRIBBING, SHEATHING AND SHORING REQUIRED AND SHALL BE SOLELY RESPONSIBLE FOR ALL EXCAVATION PROCEDURES INCLUDING LAGGING, SHORING, AND PROTECTION OF ADJACENT PROPERTY, STRUCTURES, STREETS, AND UTILITIES IN ACCORDANCE WITH ALL NATIONAL STATE AND LOCAL SAFETY ORDINANCES.
- CONTRACTOR TO PROVIDE FOR DE-WATERING OF EXCAVATIONS FROM SURFACE WATER, GROUND WATER AND/OR SEEPAGE.
- EXCAVATION FOR FOOTINGS SHALL BE APPROVED BY THE INSPECTOR OR GEOTECHNICAL ENGINEER PRIOR TO PLACING CONCRETE AND REINFORCING.
- ALL EXCAVATIONS SHALL BE PROPERLY BACKFILLED. DO NOT PLACE BACKFILL BEHIND RETAINING WALLS BEFORE CONCRETE OR GROUT HAS ATTAINED FULL DESIGN STRENGTH. CONTRACTOR SHALL BRACE OR PROTECT ALL BUILDING AND PIT WALLS BELOW GRADE FROM LATERAL LOADS UNTIL ATTACHING FLOORS ARE COMPLETELY IN PLACE AND HAVE ATTAINED FULL DESIGN STRENGTH. CONTRACTOR SHALL PROVIDE FOR DESIGN, PERMITS AND INSTALLATION OF SUCH BRACING.
- FOOTING BACKFILL AND UTILITY TRENCH BACKFILL WITHIN BUILDING AREA SHALL BE MECHANICALLY COMPACTED IN LAYERS IN ACCORDANCE WITH THE GEOTECHNICAL INVESTIGATION REPORT AND APPROVED BY THE GEOTECHNICAL ENGINEER. FLOODING WILL NOT BE PERMITTED. ALL FILLS USED TO SUPPORT FOUNDATIONS SHALL BE INSPECTED BY THE GEOTECHNICAL ENGINEER REPRESENTATIVE PER SECTION 1705.6 OF THE CODE.
- ALL ABANDONED FOOTINGS, UTILITIES, ETC., SHALL BE REMOVED. NEW FOOTINGS MUST EXTEND INTO UNDISTURBED SOILS.

**CONCRETE**

- ALL CONCRETE CONSTRUCTION SHALL CONFORM WITH CHAPTER 19 OF THE CODE AND WITH THE PROVISIONS OF ACI 318-14.
- CONCRETE MATERIALS SHALL BE IN ACCORDANCE WITH THE FOLLOWING STANDARDS:
 

MATERIAL	ASTM STANDARD
PORTLAND CEMENT (TYPE II) <sup>1</sup>	C150
CONCRETE AGGREGATES (HARDROCK)	C33
CONCRETE AGGREGATES (LIGHTWEIGHT) <sup>2</sup>	C330
WATER <sup>3</sup>	C1602
COAL FLY ASH OR POZZOLAN (CLASS F)	C618
NATURAL OR MANUFACTURED SAND	C33

  - FOR SOILS WITH HIGH CONCENTRATIONS OF SULFATES (EXPOSURES S2 OR S3 PER ACI 318-14 TABLE 19.3.2.1) PORTLAND CEMENT SHALL BE TYPE V. VERIFY WITH PROJECT GEOTECHNICAL REPORT.
  - WATER SHOULD ONLY BE ADDED AT THE BATCH PLANT. IN NO CASE SHALL THE DESIGN WATER/ CEMENT RATIO BE EXCEEDED.
  - PUMICE AGGREGATE SHALL NOT BE USED.
- CONCRETE MIXES SHALL BE PROPORTIONED BASED ON SECTION 26.4.3 OF ACI 318-14. SCHEDULE OF STRUCTURAL CONCRETE STRENGTHS AND LOCATIONS (UNO):
 

LOCATION IN STRUCTURE	MINIMUM STRENGTH (PSI)	DENSITY (PCF)	MAX SLUMP (IN±1)	MAX WATER/CEMENT RATIO	FLY ASH BY WT (MAX)
FENCE POST AND SITE WALLS FOUNDATION	3,000	150	4	0.40	0.15
- READY MIXED CONCRETE SHALL BE MIXED AND DELIVERED IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM C94 OF C885.
- DEPOSITING AND CONVEYING OF CONCRETE SHALL CONFORM TO SECTION 26.5 OF ACI 318-14 AND PROJECT SPECIFICATIONS.
- ALL CONCRETE SURFACES AGAINST WHICH NEW CONCRETE IS TO BE PLACED SHALL BE CLEANED AND ROUGHENED TO 1/4" AMPLITUDE.
- ALL REINFORCING BARS, ANCHOR BOLTS AND OTHER CONCRETE INSERTS SHALL BE WELL SECURED IN POSITION PRIOR TO PLACING CONCRETE.
- PROVIDE SLEEVES FOR PLUMBING AND ELECTRICAL OPENINGS IN CONCRETE BEFORE PLACING. DO NOT CUT ANY REINFORCING WHICH MAY CONFLICT. CORING IN CONCRETE IS NOT PERMITTED WITHOUT SEOR APPROVAL. NOTIFY THE SEOR IN ADVANCE OF CONDITIONS NOT SHOWN ON THE DRAWINGS. SEE THE DRAWINGS FOR ADDITIONAL RESTRICTIONS ON THE PLACEMENT OF OPENINGS IN SLABS AND WALLS.
- PIPES EMBEDDED IN CONCRETE:
  - CONCRETE
    - PIPES LARGER THAN 1-1/2" DIAMETER SHALL NOTE BE EMBEDDED IN STRUCTURAL CONCRETE EXCEPT WHERE SPECIFICALLY APPROVED BY SEOR.
    - PIPES SHALL NOT DISPLACE OR INTERRUPT REINFORCING BARS.
    - DO NOT STACK CONDUITS, SPACE EMBEDDED PIPES AND CONDUITS AT A MINIMUM OF 3 DIAMETERS CLEAR FROM OTHER EMBEDDED PIPES/CONDUITS AND REBAR.

**GENERAL**

- ALL WORK SHALL CONFORM TO THE MINIMUM STANDARDS OF THE FOLLOWING CODES AND STANDARDS:
  - 2019 CALIFORNIA BUILDING CODE, PART 2, VOLUME 2 OF 2, AND TITLE 24 C.C.R. 2019 EDITION AND LATEST REVISIONS (INCLUDING SUPPLEMENTS AND ERRATA) HEREIN REFERRED TO AS "THE CODE".
  - ANY OTHER REGULATING AGENCIES WHICH HAVE AUTHORITY OVER ANY PORTION OF THE WORK, INCLUDING THE STATE OF CALIFORNIA DIVISION OF OCCUPATIONAL SAFETY AND HEALTH (CAL/OSHA).
  - CODES & STANDARDS REFERENCED IN THE CODE OR LISTED IN THESE NOTES AND SPECIFICATIONS.
- ALL DRAWINGS ARE CONSIDERED TO BE A PART OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REVIEW AND COORDINATION OF ALL DRAWINGS AND SPECIFICATIONS PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES THAT OCCUR SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO START OF CONSTRUCTION SO THAT A CLARIFICATION CAN BE ISSUED. ANY WORK PERFORMED IN CONFLICT WITH THE CONTRACT DOCUMENTS OR ANY CODE REQUIREMENTS SHALL BE CORRECTED BY THE CONTRACTOR AT THEIR OWN EXPENSE AND AT NO EXPENSE TO THE OWNER OR ARCHITECT.
- NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS, WHERE NO DETAILS ARE GIVEN. CONSTRUCTION SHALL BE AS SHOWN FOR SIMILAR WORK.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO STARTING CONSTRUCTION. THE ARCHITECT SHALL BE NOTIFIED OF ANY DISCREPANCIES OR INCONSISTENCIES. IN NO INSTANCE SHALL DIMENSIONS BE SCALED FROM THE DRAWINGS.
- SEE MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR THE FOLLOWING:
  - PIPE RUNS, SLEEVES, HANGERS, TRENCHES, WALL AND SLAB OPENINGS, ETC., EXCEPT AS SHOWN OR NOTED.
  - ELECTRICAL CONDUIT RUNS, BOXES, OUTLETS IN WALLS AND SLABS.
  - CONCRETE INSERTS FOR ELECTRICAL, MECHANICAL OR PLUMBING FIXTURES.
  - SIZE AND LOCATION OF MACHINE OR EQUIPMENT BASES, ANCHOR BOLTS FOR MOTOR MOUNTS.
- SEE CIVIL DRAWINGS FOR THE FOLLOWING:
  - HEIGHT AND/OR ELEVATION OF:
    - FINISHED SURFACE
    - TOP OF WALL
    - TOP OF GRADE
    - FINISHED GRADE
    - SLOPE
  - SITE CONCRETE WALKWAYS, CURBS & PAVING
- THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING, SHORING FOR LOADS DUE TO CONSTRUCTION EQUIPMENT ETC. THE CONTRACTOR IS RESPONSIBLE FOR PROVISION OF TEMPORARY SHORING AND OTHER CONSTRUCTION AIDS, INCLUDING ALL ENGINEERING OF SUCH SYSTEMS, FOR TEMPORARY SUPPORT OF NEW AND/OR EXISTING STRUCTURAL ELEMENTS AS REQUIRED FOR ERECTION AND OTHER CONTRACTOR'S MEANS AND METHODS OF CONSTRUCTION (UNO). OBSERVATION VISITS TO THE SITE BY THE STRUCTURAL ENGINEER SHALL NOT INCLUDE INSPECTION OF THE ABOVE ITEMS OR CONCRETE CONSTRUCTION MEANS AND METHODS OR CONSTRUCTION SAFETY.
- BACKFILL SHALL NOT BE PLACED BEHIND EXTERIOR AND INTERIOR RETAINING WALLS UNTIL THE CONCRETE / CMU HAS ACHIEVED FULL DESIGN STRENGTH, FOR BRACED WALLS SUPPORTED BY STRUCTURAL DIAPHRAGMS. BACKFILL SHALL NOT BE PLACED BEHIND THE WALL UNTIL THE DIAPHRAGM HAS BEEN INSTALLED, AND FOR CONCRETE DIAPHRAGMS, HAS ACHIEVED FULL DESIGN STRENGTH.
- THE CONTRACT STRUCTURAL DRAWINGS SHOW THE BUILDING IN ITS FINAL INTENDED POSITION. CONTRACTOR SHALL MAKE PROVISIONS IN THE LAYOUT OF THE BUILDING TO TAKE INTO ACCOUNTS SHRINKAGE, CREEP, SHORING, ETC..
- OPENINGS, POCKETS, ETC., LARGER THAN 6" SHALL NOT BE PLACED IN CONCRETE SLABS, DECKS, WALLS, UNLESS SPECIALLY DETAILED ON THE STRUCTURAL DRAWINGS. NOTIFY THE STRUCTURAL ENGINEER WHEN DRAWINGS BY OTHERS SHOW OPENINGS, POCKETS, ETC., LARGER THAN 6" NOT SHOWN ON THE STRUCTURAL DRAWINGS, BUT WHICH ARE LOCATED IN STRUCTURAL MEMBERS.
- ASTM SPECIFICATIONS ON THE DRAWINGS SHALL BE THE VERSION REFERENCED IN CHAPTER 35 OF THE CODE OR AS REFERENCED IN THE APPLICABLE DESIGN STANDARD.
- CONTRACTOR SHALL INVESTIGATE SITE DURING CLEARING AND EARTHWORK OPERATIONS FOR FILLED EXCAVATIONS OR BURIED STRUCTURES, SUCH AS CESSPOOLS, CISTERNS, FOUNDATIONS, ETC. IF ANY SUCH STRUCTURES ARE FOUND, THE STRUCTURAL ENGINEER AND GEOTECHNICAL ENGINEER SHALL BE NOTIFIED IMMEDIATELY.
- CONSTRUCTION MATERIAL SHALL BE SPREAD OUT IF PLACED ON FRAMED ROOF OR FLOOR. LOAD SHALL NOT EXCEED THE DESIGN LIVE LOAD PER SQUARE FOOT. THE CONTRACTOR TO DESIGN AND PROVIDE ADEQUATE SHORING AND/OR BRACING WHERE STRUCTURE HAS NOT ATTAINED DESIGN STRENGTH.
- CONTRACTOR SHALL COORDINATE SHORING WITH DRAWINGS OF RECORD TO INSURE PROVISIONS FOR POCKETS, BLOCKOUTS, OFFSETS, STEPPED FOOTINGS AND ANY OTHER ITEMS AFFECTED BY THE SHORING
- AN UNDERGROUND SERVICE ALERT INQUIRY IDENTIFICATION NUMBER MUST BE OBTAINED AT LEAST TWO WORKING DAYS BEFORE STARTING WORK WITH THIS PERMIT.
  - FOR PROJECTS IN SOUTHERN CALIFORNIA - TELEPHONE NO. : 1-800-422-4133
  - FOR PROJECTS IN NORTHERN CALIFORNIA - TELEPHONE NO. : 1-800-227-2600

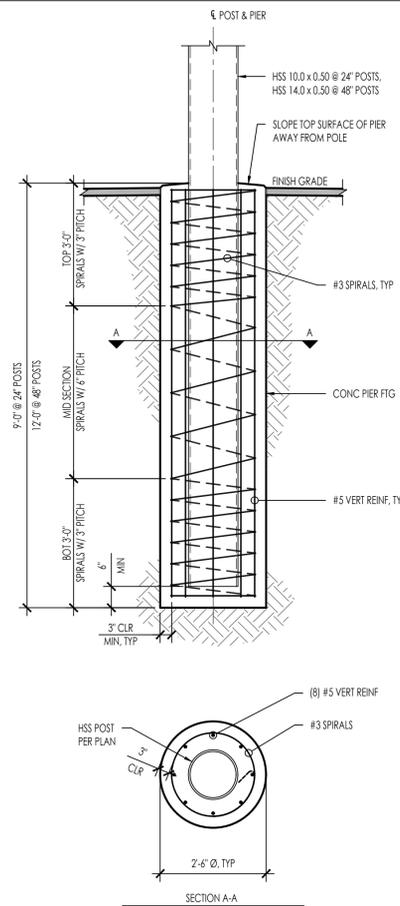
**DESIGN INFORMATION**

- WIND DESIGN DATA (2019 CBC SECTION 1603.1.4):
 

WIND DESIGN DATA		
PARAMETER	VALUE	REFERENCE
ULTIMATE DESIGN WIND SPEED (3-SEC GUST)	V <sub>ult</sub> = 92 MPH	2019 CBC FIG. 1609.3
NOMINAL DESIGN WIND SPEED (3-SEC GUST)	V <sub>des</sub> = 72 MPH	2019 CBC 1609.3.1
EXPOSURE CATEGORY	C	2019 CBC 1609.4.3
INTERNAL PRESSURE COEFFICIENT:	GCPi = ± 0.18	ASCE 7-16 TABLE 26.13-1
- EARTHQUAKE DESIGN DATA (2019 CBC SECTION 1603.1.5):
 

SITE AND OCCUPANCY PARAMETERS		
PARAMETER	VALUE	REFERENCE
RISK CATEGORY	II	2019 CBC TABLE 1604.5
SEISMIC IMPORTANCE FACTOR	I = 1.0	ASCE 7-16 TABLE 1.5-2
MAPPED SPECTRAL RESPONSE ACCELERATIONS:	S <sub>s</sub> = 2.093 S <sub>1</sub> = 0.805	2019 CBC 1613.2.1
SITE CLASS	D (DEFAULT)	2019 CBC 1613.2.2
SPECTRAL RESPONSE COEFFICIENTS:	S <sub>DS</sub> = 1.674 S <sub>DS1</sub> = 0.912	2019 CBC 1613.2.4
- GEOTECHNICAL INFORMATION (2019 CBC SECTION 1603.1.6):
 

REFER TO FOUNDATION GENERAL NOTES



**POST PIER FOOTING**  
2011-01-RC21-S101-12 1/2" = 1'-0" 12

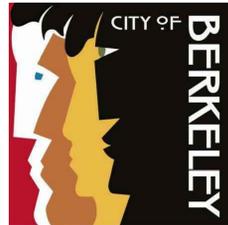
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CONSULTANT



**GROVE PARK FIELD AND PLAYGROUND RENOVATIONS**  
 2828 Martin Luther King Jr. Way, Berkeley, CA 94703  
**GENERAL NOTES & STRUCTURAL DETAILS**

NO.	REVISION	DATE

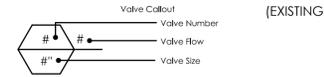
COB SPECIFICATION NO. 22-11538-C  
 CITY PLAN NO. 8256 FILE NO. 406-218  
**PROJECT MANAGER**  
 C. CECIL  
**DRAWN BY**  
 J. LONG  
**CHECKED BY**  
 C. CECIL  
**DATE**  
 NOVEMBER 22, 2022  
**PROJECT NUMBER**  
 2211-01-RC21  
**SHEET**

**S-101**

BID SET

## IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	PSI	GPM	RADIUS	DETAIL
	HUNTER I-25-06-SS TURF ROTOR, 6" POP-UP, ADJUSTABLE AND FULL CIRCLE. STAINLESS STEEL RISER. DRAIN CHECK VALVE. STANDARD NOZZLE.	50	10.1	51'	5/LI501
	HUNTER I-25-06-SS TURF ROTOR, 6" POP-UP, ADJUSTABLE AND FULL CIRCLE. STAINLESS STEEL RISER. DRAIN CHECK VALVE. STANDARD NOZZLE.	50	13.4	56'	5/LI501
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	DETAIL			
	RAIN BIRD EFB-CP 1", 1-1/2", 2" BRASS REMOTE CONTROL VALVE, THAT IS CONTAMINATION PROOF W/SELF-FLUSHING FILTER SCREEN. GLOBE CONFIGURATION, RECLAIMED WATER COMPATIBLE, AND PURPLE HANDLE COVER DESIGNATES NON-POTABLE WATER USE.	4/LI501			
	IRRIGATION LATERAL LINE: PVC SCHEDULE 40				
	IRRIGATION MAINLINE: PVC SCHEDULE 40				



## VALVE SCHEDULE

NUMBER	MODEL	SIZE	TYPE	GPM	PSI	PRECIP
1	RAIN BIRD EFB-CP	2"	TURF ROTOR	40.2	54.43	1.93 in/h
2	RAIN BIRD EFB-CP	2"	TURF ROTOR	40.4	56.05	0.77 in/h
3	RAIN BIRD EFB-CP	2"	TURF ROTOR	53.6	53.38	0.46 in/h
4	RAIN BIRD EFB-CP	2"	TURF ROTOR	40.4	53.96	0.87 in/h
5	RAIN BIRD EFB-CP	2"	TURF ROTOR	40.4	54.33	0.43 in/h
6	RAIN BIRD EFB-CP	2"	TURF ROTOR	50.5	54.69	1.49 in/h
7	RAIN BIRD EFB-CP	2"	TURF ROTOR	40.4	54.23	0.73 in/h
8	RAIN BIRD EFB-CP	2"	TURF ROTOR	40.2	53.74	0.45 in/h

## WATER USE CALCULATION

Appendix B - Sample Water Efficient Landscape Worksheet

This worksheet is filled out by the project applicant and it is a required element of the Landscape Document Package

**WATER EFFICIENT LANDSCAPE WORKSHEET**

Reference Evapotranspiration (Eto)	Plant Factor (PF)	Irrigation Method	Irrigation Efficiency (IE)	ETAF (PF/IE)	Landscape Area (Sq. Ft)	ETAF x Area	Estimated Total Water Use (ETWU)
41.6							
<b>Regular Landscape Areas</b>							
1- DT Shrubs	0.25	Drip	0.91	0.27	0	0.00	0
2-DT Trees	0.25	Bubbler	0.8	0.31	0	0.00	0
3-Mod Shrubs	0.5	Drip	0.91	0.55	0	0.00	0
4- Mod Trees	0.5	Bubbler	0.8	0.63	0	0.00	0
5- Turf	0.9	Spray	0.71	1.27	0	0.00	0
Totals						0	0.00
<b>Special Landscape Areas</b>							
Play Field				1	44800		1,155,482
Edibles				1	0		0
Other				1	0		0
Totals						44800	1,155,482
						ETWU Total	1,155,482
						Maximum Allowed Water Allowance (MAWA)	1,155,482

**Hydrozone #/Planting Description**      **Irrigation Method**      **Irrigation Efficiency**      **ETWU (Annual Gallons Required)**

E.G.      overhead spray or drip      0.75 for spray head       $Eto \times 0.62 \times (ETAF \times Area)$

1) Point Inset      where 0.62 is a conversion factor that

2) low water use plantings      converts acre inches per

3) medium water use plantings      acre per year to galls

\*MAWA (Annual Gallons Allowed) =  $(Eto) (0.62) [(ETAF \times LA)] - [(1-ETAF) \times SLA]$       per square foot per year.

where 0.62 is a conversion factor that converts acre-inches per acre per year to gallons per square foot per year. LA is the total landscape area in square feet. SLA is the total special landscape area in square feet, and ETAF is .55 for residential areas and 0.45 for non-residential areas.

**ETAF Calculations**

Regular Landscape Areas

Total ETAF x Area	(B)
Total Area	(A)
Average ETAF	B / A

Average ETAF for Regular Landscape Areas must be 0.55 or below for residential areas, and 0.45 or below for non-residential areas.

All Landscape Areas

Total ETAF x Area	(B+D)
Total Area	(A+C)
Sitewide ETAF	(B+D) / (A+C)

## IRRIGATION NOTES

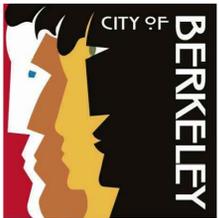
- IRRIGATION PLAN IS DIAGRAMMATIC. CONTRACTOR SHALL DETERMINE FINAL LOCATION OF PIPING AT THE TIME OF INSTALLATION. MAINLINE AND LATERALS SHALL BE PLACED IN THE SAME TRENCH WHEN POSSIBLE.
- ALL EQUIPMENT REQUIRED BUT NOT SPECIFIED ON THE DRAWING TO COMPLETE THE WORK SHALL BE PROVIDED BY THE IRRIGATION CONTRACTOR.
- INSTALL ALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND SPECIFICATIONS.
- WORK SHALL BE DONE IN ACCORDANCE WITH THIS SET OF CONSTRUCTION DOCUMENTS.
- CONTRACTOR SHALL BECOME THOROUGHLY FAMILIAR WITH THE PLANS AND SITE CONDITIONS PRIOR TO BEGINNING WORK. SHOULD CONFLICTING INFORMATION BE FOUND ON THE PLANS, THE CONTRACTOR SHALL NOTIFY THE PROJECT LANDSCAPE ARCHITECT BEFORE PROCEEDING WITH THE WORK IN QUESTION.
- DO NOT WILLFULLY INSTALL THE IRRIGATION SYSTEM AS SHOWN ON THE DRAWINGS WHEN IT IS OBVIOUS IN THE FIELD THAT OBSTRUCTIONS, GRADE DIFFERENCES OR DIFFERENCES IN THE AREA DIMENSIONS EXIST THAT MIGHT NOT HAVE BEEN CONSIDERED IN THE ENGINEERING. SUCH OBSTRUCTIONS OR DIFFERENCES SHOULD BE BROUGHT TO THE ATTENTION OF THE CITY OF BERKELEY. IN THE EVENT THIS NOTIFICATION IS NOT PERFORMED, THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY REVISIONS NECESSARY AT NO EXPENSE TO THE CITY OF BERKELEY.
- ALL EXISTING UTILITIES, WATER LINES AND FIRE HYDRANTS SHALL REMAIN CONNECTED AND IN FULL CONTINUOUS OPERATION DURING AND FOLLOWING ALL CONTRACT, LANDSCAPE, AND IRRIGATION WORK.
- CONTRACTOR SHALL MAKE ALL NECESSARY ADJUSTMENTS TO THE IRRIGATION SYSTEM FOLLOWING A PRECIPITATION TEST PER THE CITY OF BERKELEY. ADJUSTMENTS SHALL INCLUDE BUT WILL NOT BE LIMITED TO: HEAD RELOCATION, CHANGING NOZZLES, AND ADJUSTING ARC PATTERNS TO ATTAIN EFFICIENT UNIFORMITY AS REQUIRED BY THE CITY OF BERKELEY.
- CONTRACTOR SHALL NOT INSTALL ANY PLANTING UNTIL THE FOLLOWING ARE COMPLETED:
  - THE IRRIGATION SYSTEM IS FULLY OPERATIONAL.
  - HYDROSTATIC PRESSURE TESTS HAVE BEEN PERFORMED ON MAIN AND LATERAL LINES.
  - ALL ZONES HAVE PASSED A COVERAGE TEST.
  - CONTROLLERS ARE FULLY OPERATIONAL.
- EXISTING IRRIGATION SYSTEM OUTSIDE THE PROJECT LIMITS SHALL REMAIN OPERATIONAL DURING CONSTRUCTION.



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**GROVE PARK FIELD AND PLAYGROUND RENOVATIONS**  
2828 Martin Luther King Jr. Way, Berkeley, CA 94703  
**IRRIGATION PLAN**

NO.	REVISION	DATE

COB SPECIFICATION NO. 22-11538-C  
CITY PLAN NO. 8256 FILE NO. 406-218

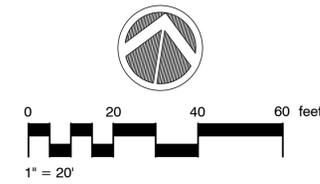
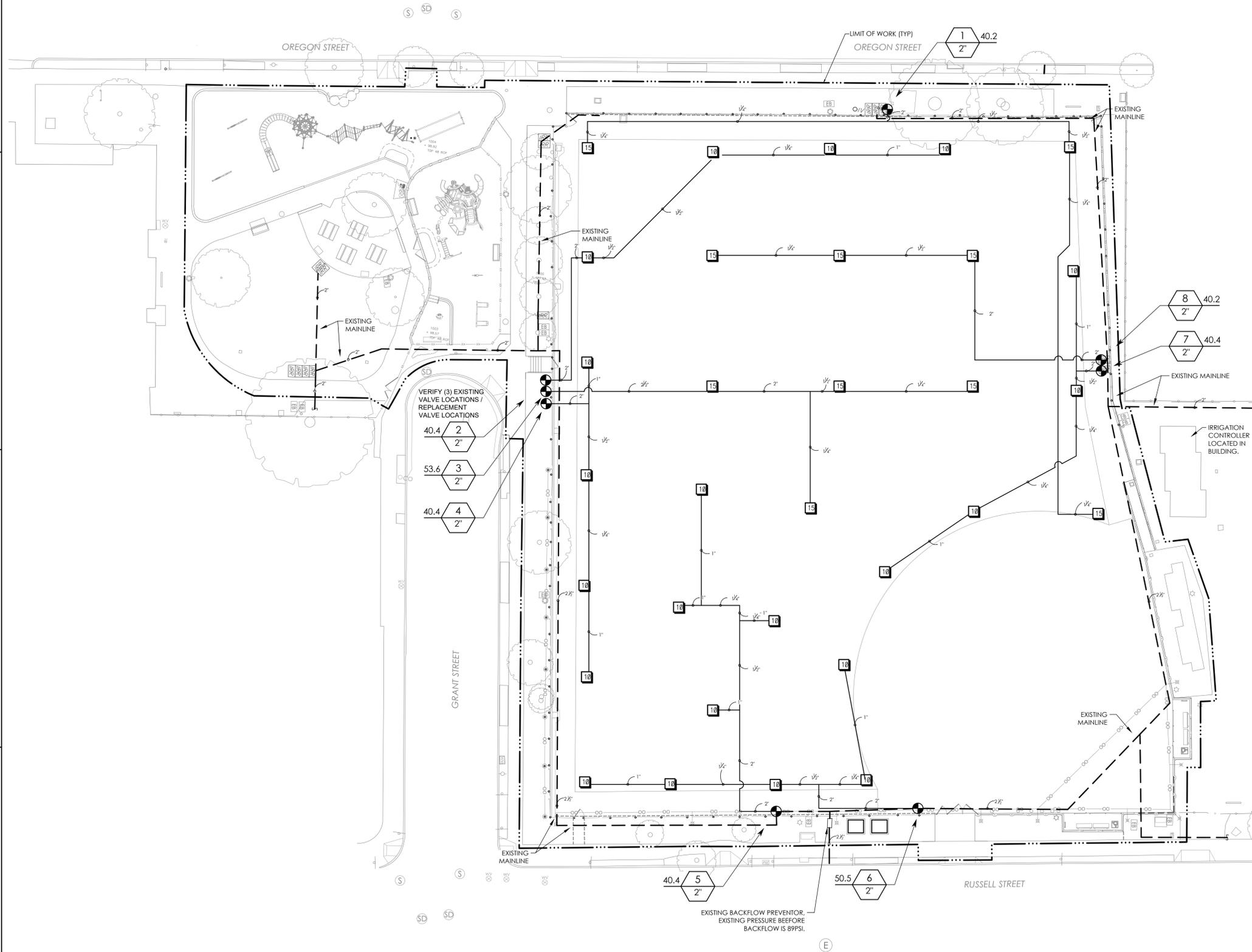
PROJECT MANAGER  
JS  
DRAWN BY YI      CHECKED BY JS  
DATE  
**NOVEMBER 22, 2022**  
PROJECT NUMBER  
2211-01-RC21

SHEET  
**LI001**

BID SET

NOTES

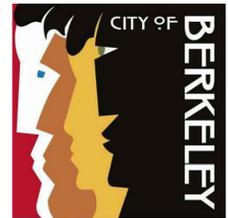
1. SEE SHEET LI001 FOR IRRIGATION NOTES, EQUIPMENT SCHEDULE, AND VALVE SCHEDULE.
2. BOXES/VALVE LOCATIONS TO BE MARKED UP AND LOCATED IN FIELD BY CITY OF BERKELEY MAINTENANCE STAFF.
3. ALL NUMBERED VALVES ON PLAN ARE PROPOSED.
4. ALL MAINLINE SHOWN ON PLAN ARE EXISTING.



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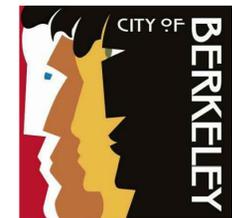
SHEET  
**LI101**

BID SET





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**GROVE PARK FIELD AND  
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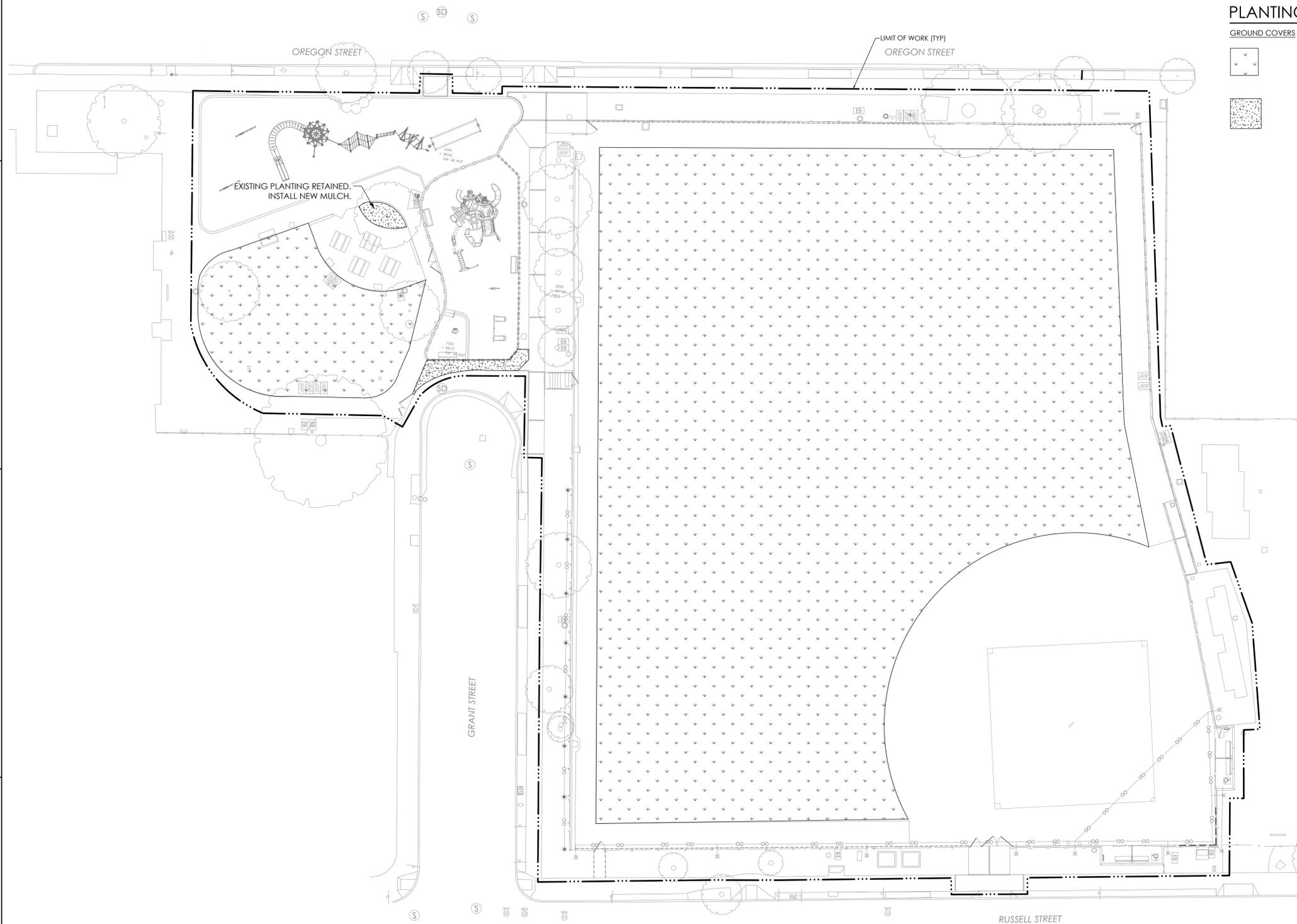
**PLANTING PLAN**

**PLANTING NOTES**

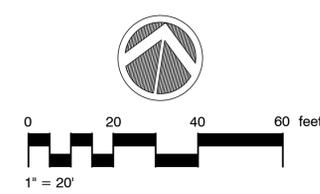
1. PLANT LIST IS FOR CONVENIENCE OF CONTRACTOR ONLY. IN CASE OF DISCREPANCIES BETWEEN THE PLANS AND THE LIST, PLANS SHALL PREVAIL.
2. THE CITY OF BERKELEY RESERVES THE RIGHT TO MAKE SUBSTITUTIONS, ADDITIONS, AND DELETIONS TO THE PLANTING LAYOUT AS WORK PROGRESSES.

**PLANTING LEGEND**

GROUND COVERS	QTY	COMMON NAME	REMARKS
	44,860 SF	BOLERO PLUS	BOLERO DWARF FESCUE 90%, BLUEGRASS 10% SEE SPECIFICATIONS SECTION 32 92 23 SODDING
		MULCH	3" MIN ENGINEERED WOOD FIBER BARK



NO.	DESCRIPTION	REFERENCE
1	BASE BID: INSTALL TURF SOD. (DEDUCT) REMOVE SOD SCOPE & REPLACE WITH TURF GRASS SEED INSTALLATION.	LC101/ LP101



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YI	JS
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LP101	

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CITY PLAN NO. 8256 FILE NO. 406-218

PROJECT MANAGER

DRAWN BY: MP      CHECKED BY: RZ

DATE: NOVEMBER 22, 2022

PROJECT NUMBER: 2211-01-RC21

SHEET: **E-1.1**

BID SET

**LEGEND**

**CIRCUITING**

- A-1 → HOMERUN CONDUIT AND CONDUCTORS TO PANEL 'A' CIRCUIT 1; SLASH MARKS INDICATE NUMBER OF CONDUCTORS, 2 #12 AWG + 1 #12 GND, UON
- CIRCUIT CONCEALED IN WALL OR CEILING
- - - CIRCUIT CONCEALED UNDERGROUND
- - - - CIRCUIT EXPOSED
- CONDUIT UP
- CONDUIT DOWN
- ]— CONDUIT CAP
- S— CONDUIT CONTINUED

**ELECTRICAL APPARATUS AND EQUIPMENT**

- SAFETY DISCONNECT SWITCH, FUSED AND NON-FUSED
- Ⓜ METER
- ⌋ CIRCUIT BREAKER
- ⊕ GROUND TO EARTH
- ⌋ SWITCH
- ⌋ CONTACTS, NORMALLY OPEN, NORMALLY CLOSED
- Ⓜ CT CURRENT TRANSFORMER WITH UTILITY METER & SOCKET
- ▼ UNDERGROUND TERMINATION POINT
- Ⓜ CONTACTOR

- ▬ PANELBOARD, SURFACE OR RECESSED
- PB □ PULLBOX
- Ⓜ JUNCTION BOX; CEILING, WALL OR FLOOR MOUNTED
- Ⓜ DUPLEX RECEPTACLE, +15" MIN TO BOTTOM OF OUTLET BOX, +48" MAX TO TOP OF OUTLET BOX
- Ⓜ ANNOTATED DEVICE (ASTERISK IS NOT PART OF SYMBOL), SUBSCRIPT LETTER INDICATES RECEPTACLE USAGE
- D - DEDICATED CIRCUIT
- GFCI - GROUND FAULT CIRCUIT INTERRUPTER
- IG - ISOLATED GROUND
- WP - WEATHERPROOF

**FIXTURES**

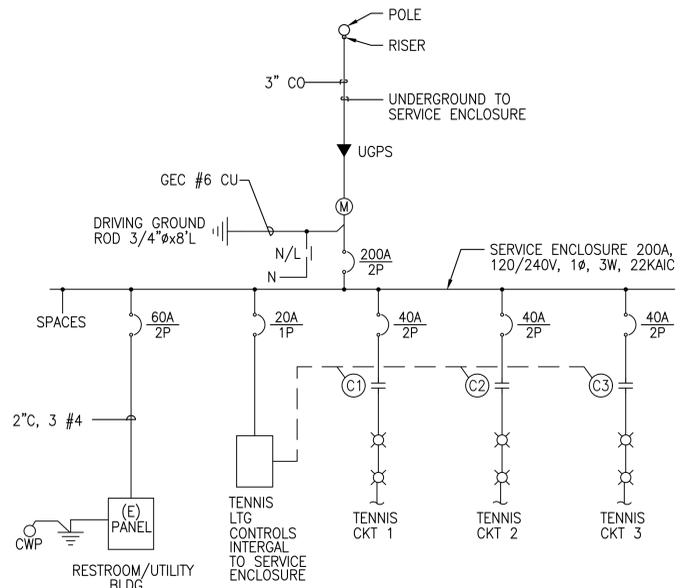
- Ⓜ 2-HEAD TENNIS COURT LIGHT POLE
- Ⓜ 4-HEAD TENNIS COURT LIGHT POLE
- Ⓜ BASKETBALL COURT LIGHT POLE
- Ⓜ SECURITY LIGHT

**TAGS**

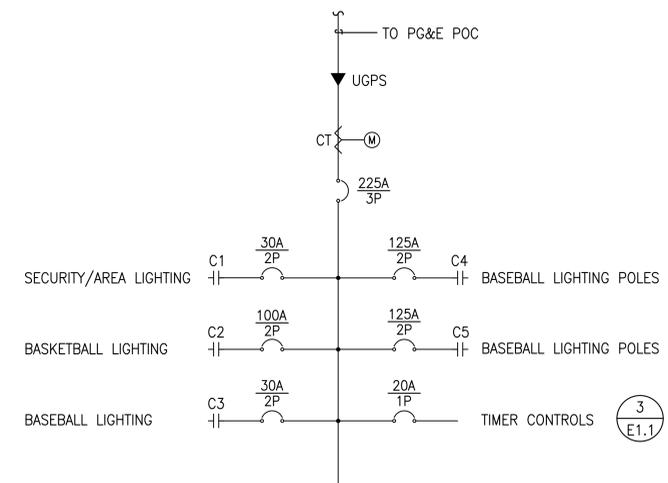
- Ⓜ DETAIL TAG  
e.g., 1 IS THE DETAIL NUMBER  
E1 IS THE SHEET NUMBER
- Ⓜ NOTE TAG #1, SEE SHEET NOTES

**ABBREVIATIONS**

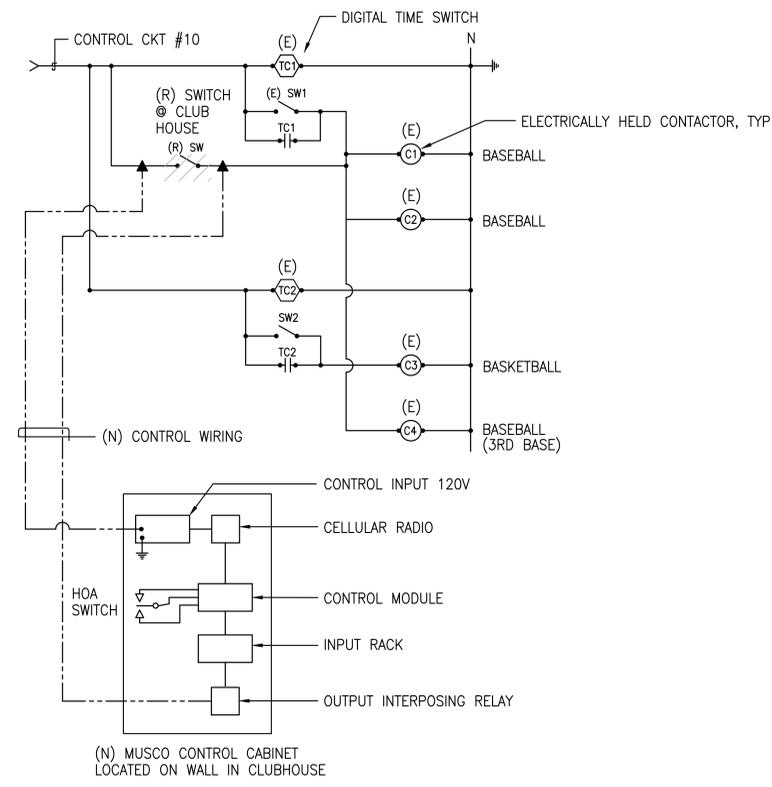
- |  |   |
|--|---|
| A - AMPERE                               | MAX - MAXIMUM                             |
| AFF - ABOVE FINISHED FLOOR               | MCA - MIN. CIRCUIT AMPERES                |
| AFG - ABOVE FINISHED GRADE               | MIN - MINIMUM                             |
| AWG - AMERICAN WIRE GAUGE                | MPOE - MAIN POINT OF ENTRY                |
| BC - BARE COPPER                         | MSB - METER SWITCHBOARD                   |
| BP - BYPASS                              | MTD - MOUNTED                             |
| C - CONDUIT                              | MTG - MOUNTING                            |
| CB - CIRCUIT BREAKER                     | (N) - NEW                                 |
| CKT - CIRCUIT                            | NIC - NOT IN CONTRACT                     |
| CO - CONDUIT ONLY                        | NL - NEUTRAL LINK                         |
| CWP - COLD WATER PIPE                    | OC - ON CENTER                            |
| CT - CURRENT TRANSFORMER                 | OH - OVERHEAD                             |
| CU - COPPER                              | PB - PULLBOX                              |
| DET - DETAIL                             | PC - PHOTOCELL                            |
| DIA - DIAMETER                           | PE - PHOTOELECTRIC                        |
| DWG - DRAWING                            | PWR - POWER                               |
| (E) - EXISTING TO REMAIN                 | PVC - POLYVINYL CHLORIDE                  |
| ELEC - ELECTRICAL                        | QTY - QUANTITY                            |
| EMT - ELECTRICAL METALLIC TUBING         | (R) - EXISTING TO BE REMOVED              |
| ENCL - ENCLOSURE                         | RECPT - RECEPTACLE                        |
| EQ - EQUAL                               | RSC - RIGID STEEL CONDUIT                 |
| EQUIP - EQUIPMENT                        | (RL) - RELOCATED EXISTING                 |
| GALV - GALVANIZED                        | SLD - SEE LANDSCAPE DRAWINGS              |
| GEC - GROUNDING ELECTRODE CONDUCTOR      | SHT - SHEET                               |
| GFCI - GROUND FAULT CIRCUIT INTERRUPTER  | SW - SWITCH                               |
| GND - GROUND                             | SWBD - SWITCHBOARD                        |
| HH - HANDHOLE                            | TBD - TO BE DETERMINED                    |
| HV - HIGH VOLTAGE                        | TYP - TYPICAL                             |
| KAIC - KILOAMPERES INTERRUPTING CAPACITY | TVSS - TRANSIENT VOLTAGE SURGE SUPPRESSOR |
| KV - KILOVOLT                            | UG - UNDERGROUND                          |
| KVA - KILOVOLT-AMPERE                    | UON - UNLESS OTHERWISE NOTED              |
| KW - KILOWATT                            | V - VOLT                                  |
| LED - LIGHT-EMITTING DIODE               | W - WATT                                  |
| LTG - LIGHTING                           | WP - WEATHERPROOF                         |
|  | XFMR - TRANSFORMER                        |



FOR REFERENCE ONLY  
**1 (E) SINGLE LINE DIAGRAM - TENNIS SERVICE**  
SCALE:



**2 (E) BASEBALL / BASKETBALL SERVICE SINGLE LINE DIAGRAM**



**3 CONTROL DIAGRAM**

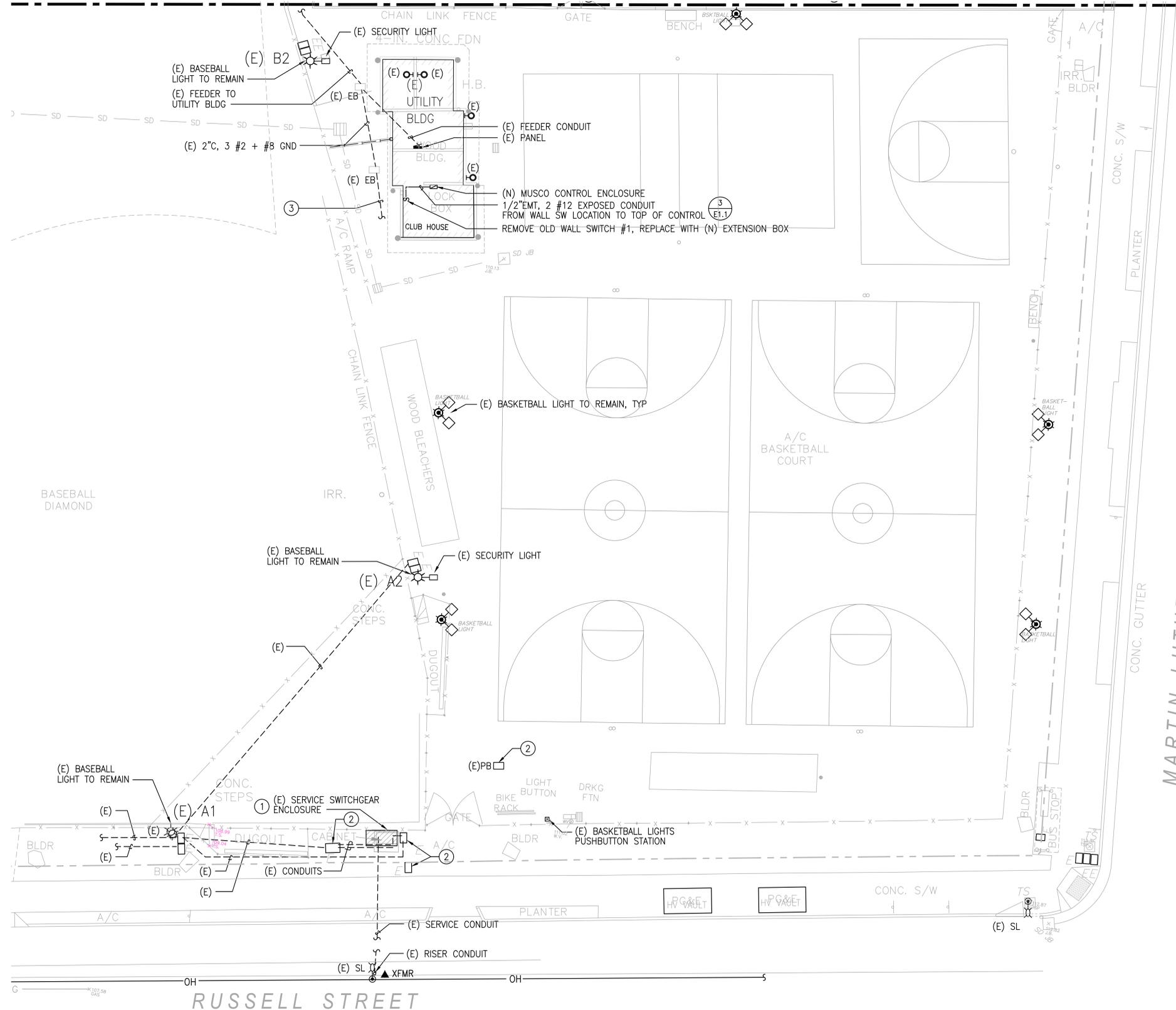
**ELECTRICAL SCOPE OF WORK:**

INSTALLATION OF A NEW REMOTE-CONTROL SYSTEM FOR CONTROLLING THE BALLFIELD LIGHTING CONTACTOR, UTILIZING MUSCO CONTROL-LINK CONTROL CABINET AND WIRELESS CONTROL BY REUSING THE EXISTING BALLFIELD ELECTRICAL SWITCHBOARD AND THE INTEGRAL LIGHTING CONTACTOR.

MATCHLINE 'A' SEE SHEET E2.2

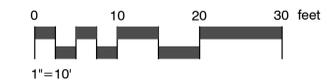
**SHEET NOTES:**

- ① (E) SERVICE METER SWITCHBOARD ENCLOSURE
- ② (E) PULL BOX TO REMAIN, TYP
- ③ (E) CONDUIT WITH 3 #2 + #8 GND TO (E) SWITCHBOARD AT RUSSEL ST. SEE AS-BUILT DWGS FOR REFERENCE



MARTIN LUTHER KING JR. WAY

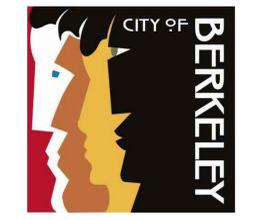
RUSSELL STREET



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1480 MORAGA ROAD, SUITE C #229  
MORAGA, CA 94556



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**ELECTRICAL SITE PLAN**

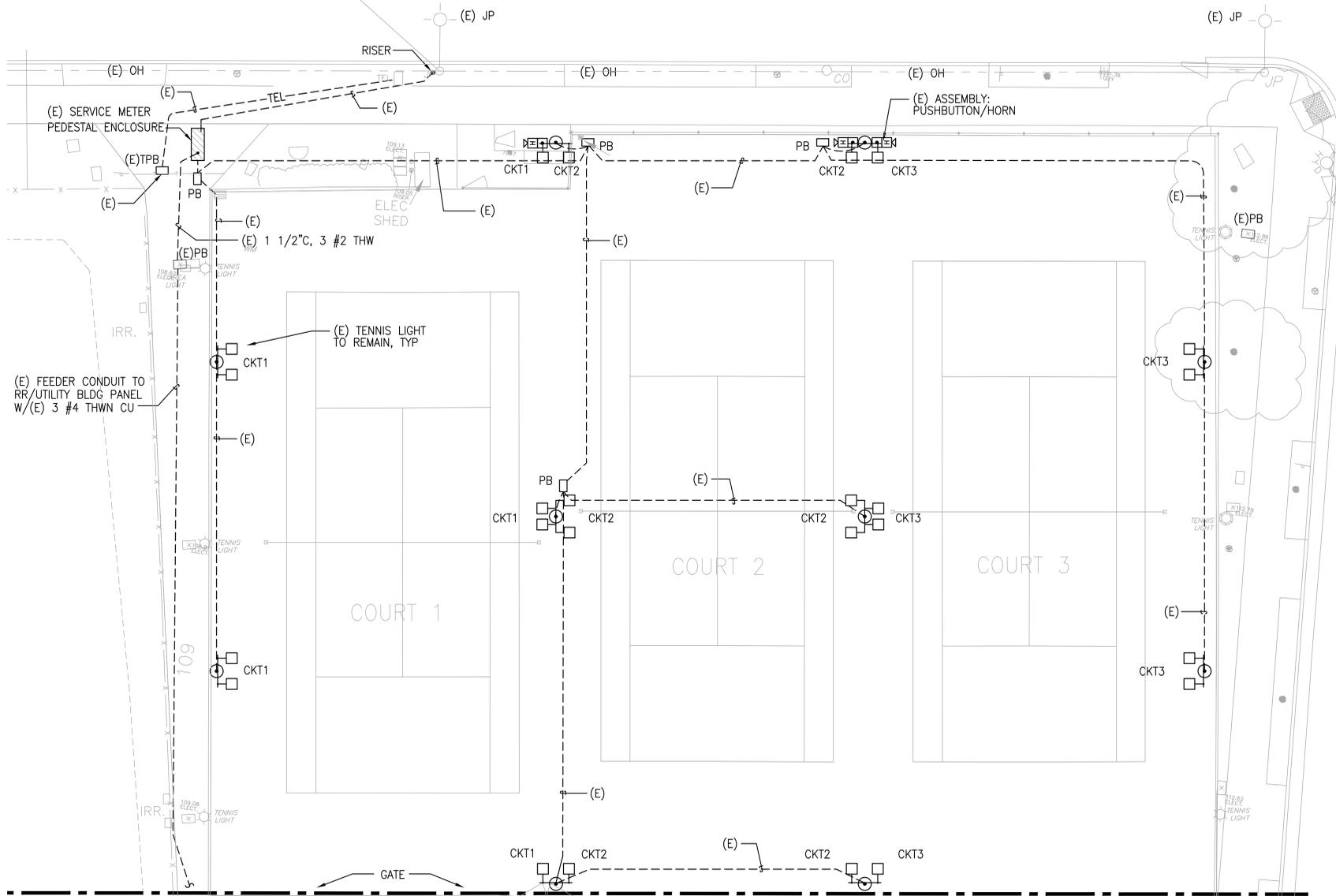
NO.	REVISION	DATE

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CITY PLAN NO. 8256 FILE NO. 406-218  
PROJECT MANAGER

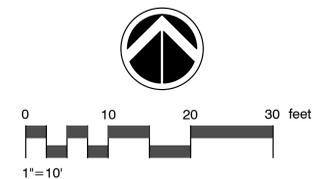
DRAWN BY MP	CHECKED BY RZ
DATE NOVEMBER 22, 2022	
PROJECT NUMBER 2211-01-RC21	
SHEET <b>E-2.1</b>	

BID SET

OREGON STREET



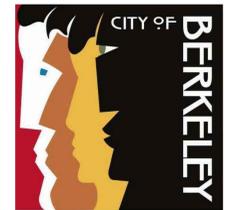
MATCHLINE 'A' SEE SHEET E2.1



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**ELECTRICAL SITE PLAN**

NO.	REVISION	DATE
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SHEET  
**E-2.2**

BID SET