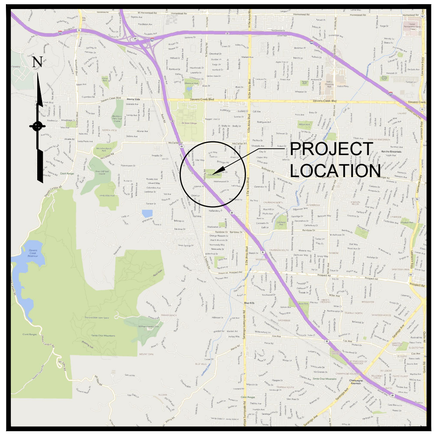
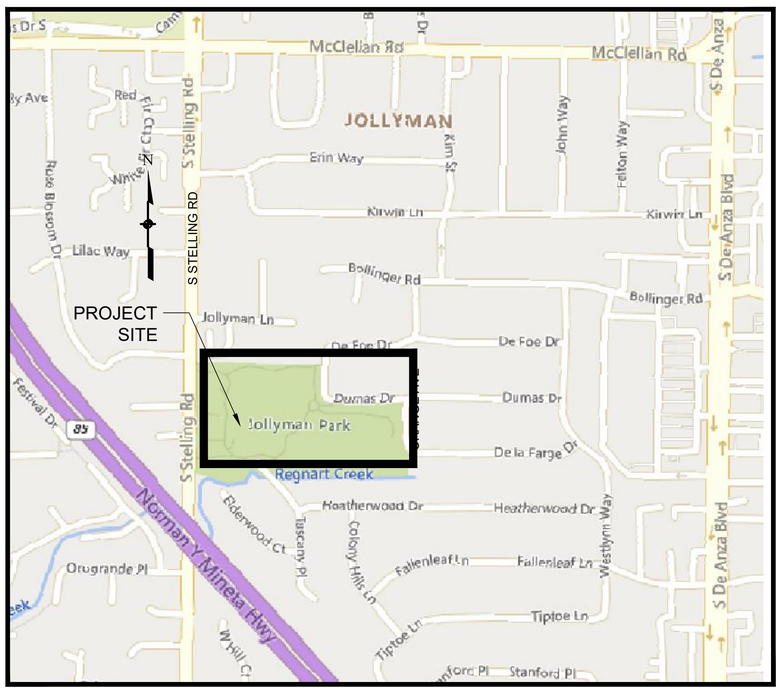
ALL-INCLUSIVE PLAYGROUND
AT JOLLYMAN PARK

CUPERTINO, CALIFORNIA

PROJECT NO. XXXXX



LOCATION MAP



SITE MAP

PROJECT BASIS OF BEARING

GET INFORMATION FROM SURVEY DEPARTMENT

PROJECT BENCHMARK

ELEV DATUM:

GET INFORMATION FROM SURVEY DEPARTMENT

SHEET INDEX

CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SHALL OBTAIN AND PAY FOR THE PERMITS AND LICENSES NECESSARY FOR THE WORK. CONTRACTOR SHALL PROTECT THE OWNER AND ENGINEER FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.

UNAUTHORIZED CHANGES & USES: THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS.

CALL BEFORE YOU DIG 811 UNDERGROUND SERVICE ALERT CA: 811

CITY ENGINEER SIGNATURE

APPROVED BY: _____ RCE 66077 _____ DATE

CHAD MOSLEY
CITY ENGINEER

MIG
800 HEARST AVENUE
BERKELEY, CA 94710
TEL (510) 845-7549
www.migcom.com

Date:	02-21-2023
Scale:	
Designed:	
Drawn:	CH
Checked:	JE
Proj. Engr:	
File:	

△	REVISIONS	DESIGN BY	DESIGN DATE	CITY APPR.	APPR. DATE

IMPROVEMENT PLANS FOR

ALL-INCLUSIVE PLAYGROUND
AT JOLLYMAN PARK

CUPERTINO CALIFORNIA

FOR CITY OF CUPERTINO USE
PROJECT # _____

PUBLIC WORKS INSPECTOR:

VOICE MAIL:

CITY OF CUPERTINO

G0.00
COVER SHEET

SHEET

FEBRUARY 2023

Z:\SHARED\BERKELEY\3900_CERS\3902 JOLLYMAN PLAY\07 CD\G0.0-COVER_3902.DWG

ALL-INCLUSIVE PLAYGROUND AT JOLLYMAN PARK / 50% CD / NOT FOR CONSTRUCTION / 02-21-2023

ABBREVIATIONS

@	AT
&	AND
AB	AGGREGATE BASE
AC	ASPHALTIC CONCRETE
AD	AREA DRAIN
AGG.	AGGREGATE
APPROX.	APPROXIMATELY
ASPH	ASPHALT
AVG	AVERAGE
BC	BOTTOM OF CURB
BFP	BACKFLOW PREVENTER
BW	BOTTOM OF WALL
BAR/REBAR	REINFORCING BAR
BLDG	BUILDING
CB	CATCH BASIN
CIP	CAST-IN-PLACE
CITY	CITY OF SAN JOSE
CL	CENTER LINE
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
CONC.	CONCRETE
CONT.	CONTINUOUS
CP	CONCRETE PIPE
DG	DECOMPOSED GRANITE
DP	DEEP
DI	DRAIN INLET
DIA / DIAM / Ø	DIAMETER
DEG./°	DEGREE
DEMO	DEMOLITION
DF / DOUG. FIR	DOUGLAS FIR
DTL / DET.	DETAIL
(E) / EX.	EXISTING
EA	EACH
(EB)	EASTBOUND
EJ	EXPANSION JOINT
EL / ELEV.	ELEVATION
ELEC	ELECTRIC(AL)
EPDM	ETHYLENE PROPYLENE DIENE MONOMER
EQ.	EQUAL
FG	FINISH GRADE
FIN	FINISH
FF	FINISH FLOOR
FFE	FINISH FLOOR ELEVATION
FT	FEET
GAU	GAUGE
GAL	GALLON
GALV	GALVANIZED
GPM	GALLONS PER MINUTE
HDPE	HIGH-DENSITY POLYETHYLENE
HDWD	HARDWOOD
HOR	HORIZONTAL
HP	HIGH POINT
HSS	HOLLOW STRUCTURAL STEEL
ID	INTERIOR DIMENSION
INV	INVERT
L.O.W.	LIMIT OF WORK
LP	LOW POINT
MAX.	MAXIMUM
MFR	MANUFACTURER
MIN.	MINIMUM
(N)	NEW
(NB)	NORTHBOUND
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
NO	NUMBER/#
OC	ON CENTER
OD	OUTSIDE DIMENSION
PA	PLANTING AREA
PCC	PORTLAND CEMENT CONCRETE
PERF.	PERFORATED
PL	PROPERTY LINE
P.O.B.	POINT OF BEGINNING
POC	POINT OF CURVATURE OR POINT OF CONNECTION
PREF.	PREFABRICATED
PT	PRESSURE TREATED
PSI	POUNDS PER SQUARE INCH
PVC	POLYVINYL CHLORIDE
QSP.	QUALIFIED SWPPP PRACTITIONER
QTY.	QUANTITY
R/RAD	RADIUS
REINF.	REINFORCING
RCP	REINFORCED CONCRETE PIPE
REL.	RELATIVE
REQ'D	REQUIRED
RIM	RIM ELEVATION
S.A.D.	SEE ARCHITECT'S DRAWINGS
SIM.	SIMILAR
S/SLP	SLOPE/SOUTH
(SB)	SOUTHBOUND
SBR	STYRENE BUTADIENE RUBBER
S.C.M.	SEE CIVIL DRAWINGS
SCH	SCHEDULE
SD	STORM DRAIN
SPECS.	SPECIFICATIONS
SPK	SPRINKLER HEAD
SQ	SQUARE
SS	SANITARY SEWER
S.S.D.	SEE STRUCTURAL DRAWINGS
SSS	SYNTHETIC SAFETY SURFACING
SST	STAINLESS STEEL
STD	STANDARD
STL	STEEL
SYNTH.	SYNTHETIC
TBD	TO BE DETERMINED
TOPO	TOPOGRAPHIC MAP
TC	TOP OF CURB
TP	TOP OF PAVEMENT
TW	TOP OF WALL
TYP.	TYPICAL
UON	UNLESS OTHERWISE NOTED
VERT.	VERTICAL
W/	WITH
(WB)	WESTBOUND
WW/%	WIDE WITH PERCENT

PROJECT DIRECTORY

LANDSCAPE ARCHITECT: MIG	Jan Eiesland	jeiesland@migcom.com	510.845.7549
CIVIL ENGINEER: BKF	Christian Anzelde	canzelde@bkf.com	408.467.9102
ELECTRICAL ENGINEER: ATIUM	Dave Maino	maino@atiumeng.com	925.248.2044
STRUCTURAL ENGINEER: KPFF	Molly Seto	molly.seto@kpff.com	415.989.1004
GEOTECH: NINYO & MOORE	Ransom Hennefer	rhennefer@ninyoandmoore.com	408.435.9000

APPLICABLE CODES

REFER TO SPECIFICATIONS FOR ALL APPLICABLE CODES

GENERAL NOTES

1. REFER TO GEOTECHNICAL EVALUATION, "JOLLYMAN PARK ALL-INCLUSIVE PLAYGROUND", BY NINYO AND MOORE, DATED FEBRUARY 18, 2022 AND SUPPLEMENTAL GEOTECHNICAL EVALUATION, "JOLLYMAN PARK NEW PRE-FABRICATED BATHROOM", BY NINYO AND MOORE, DATED DECEMBER 20,2022. CONTRACTOR TO ADHERE TO GEOTECH RECOMMENDATIONS FOR SUBGRADE PREPARATION SPECIFIC TO THIS PROJECT.
2. CITY REPRESENTATIVE TO ENGAGE GEOTECHNICAL ENGINEER FOR REQUIRED SITE OBSERVATION AND COMPACTION TESTING. CONTRACTOR TO COORDINATE CONSTRUCTION SCHEDULE WITH GEOTECHNICAL ENGINEER TO DETERMINE TIMING OF SITE VISITS.
3. CITY REPRESENTATIVE TO PROVIDE COUNTY GRANT RECOGNITION SIGN, AS LOCATED ON THE MATERIALS & DETAIL REFERENCE PLANS. CONTRACTOR RESPONSIBLE FOR POST, FOOTING AND INSTALLATION.
4. CONTRACTOR TO VERIFY LOCATION OF ALL BUILDINGS, WALLS, CURBS, PATHS AND REMAINING PLAY EQUIPMENT AFFECTING LANDSCAPE SCOPE OF WORK WITH CIVIL ENGINEER'S DRAWINGS AND EXISTING CONDITIONS AT THE PROJECT SITE. NOTIFY CITY'S REPRESENTATIVE OF ANY CONFLICTS.
5. VERIFY LOCATION OF ALL VAULTS, ELECTRICAL DUCT BANKS, MANHOLES, CONDUIT AND PIPING, DRAINAGE STRUCTURES AND OTHER UTILITIES WITH THE APPROPRIATE ENGINEERING DRAWINGS AND THE EXISTING CONDITIONS ON THE PROJECT SITE.
6. ALL EXISTING UTILITY BOXES, VAULTS, VALVE COVERS, AND MANHOLES WITHIN THE AREA TO BE IMPROVED SHALL BE ADJUSTED TO THE NEW FINISH GRADE.
7. REFER TO CIVIL DRAWINGS FOR EXISTING CONDITIONS, DEMOLITION PLAN, REFERENCE DATA, GRADING, DRAINAGE, RESTROOM AND UTILITIES.
8. DIMENSIONS TAKE PRECEDENCE OVER SCALES SHOWN ON DRAWINGS.
9. NOTES AND DETAILS ON SPECIFIC DRAWINGS TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS.
10. REFERENCE TO NORTH REFERS TO TRUE NORTH, REFERENCE TO SCALE IS FOR FULL-SIZED DRAWINGS ONLY. DO NOT SCALE FROM REDUCED DRAWINGS.

DEMOLITION, GRADING/DRAINAGE, UTILITY, AND ADD'L NOTES

REFER TO CIVIL DWGS

LAYOUT NOTES

REFER TO L2 LAYOUT NOTES

IRRIGATION AND PLANTING NOTES

REFER TO L4 IRRIGATION NOTES AND L5 PLANTING NOTES

MIG
800 HEARST AVENUE
BERKELEY, CA 94710
TEL (510) 845-7549
www.migcom.com

Date:	02-21-2023
Scale:	
Designed:	
Drawn:	CH
Checked:	JE
Proj. Engr:	
File:	

△	REVISIONS	DESIGN BY	DESIGN DATE	CITY APPR.	APPR. DATE

IMPROVEMENT PLANS FOR

ALL-INCLUSIVE PLAYGROUND AT JOLLYMAN PARK

CUPERTINO CALIFORNIA

FOR CITY OF CUPERTINO USE
PROJECT # _____

PUBLIC WORKS INSPECTOR:

VOICE MAIL:

CITY OF CUPERTINO

G0.10
PROJECT DIRECTORY AND GENERAL NOTES

SHEET

FEBRUARY 2023

CITY OF CUPERTINO GENERAL NOTES

1. ALL WORK SHALL BE IN ACCORDANCE WITH THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS (LATEST EDITION, AS AMENDED), AND STANDARD PLANS (LATEST EDITION, AS AMENDED), AND CITY OF CUPERTINO STANDARD DETAILS. THE CONTRACTOR SHALL PERFORM THE WORK DESCRIBED IN THE SPECIFICATION, AND AS SHOWN ON THE DRAWINGS, AND TO THE SATISFACTION OF THE CITY ENGINEER.
2. APPROVAL OF THESE PLANS SHALL NOT RELEASE THE OWNER OR CONTRACTOR OF THE RESPONSIBILITY FOR CORRECTIONS OF MISTAKES, ERRORS, OR OMISSIONS CONTAINED THEREIN. IF DURING THE COURSE OF CONSTRUCTION OF IMPROVEMENTS, PUBLIC INTEREST REQUIRES A MODIFICATION OF/OR A DEPARTURE FROM THE CITY OF CUPERTINO STANDARD DETAILS OR THESE IMPROVEMENTS PLANS, THE CITY ENGINEER SHALL HAVE THE AUTHORITY TO REQUIRE SUCH MODIFICATION OR DEPARTURE AND TO SPECIFY THE MANNER IN WHICH THE SAME IS TO BE COMPLETED, AT THE SOLE EXPENSE OF THE OWNER OR CONTRACTOR.
3. APPROVAL OF THESE PLANS BY THE CITY ENGINEER IS ONLY FOR PUBLIC RIGHT-OF-WAY IMPROVEMENTS (INCLUDING STORM DRAIN IN THE RIGHT OF WAY), AND NOT FOR WATER, SEWER OR DRY UTILITIES. IT IS THE DEVELOPER'S/OWNER'S RESPONSIBILITY TO COORDINATE REVIEWS AND APPROVAL FROM EACH OF THE UTILITY COMPANIES, AND TO PROVIDE APPROVAL LETTERS AS REQUESTED.
4. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THE APPROVED PLANS OR THE LATEST REVISED PLANS ARE FURNISHED TO ITS SUBCONTRACTORS, AND TO ENSURE THE LATEST APPROVED PLANS ARE ONSITE AT ALL TIMES DURING CONSTRUCTION.
5. THE CONTRACTOR SHALL NOTIFY THE CITY OF CUPERTINO PUBLIC WORKS INSPECTOR TWO (2) WORKING DAYS PRIOR TO REQUIRING AN INSPECTION. CALL (408) 777-3104 TO SCHEDULE PUBLIC WORKS INSPECTIONS.
6. CONSTRUCTION AREA TRAFFIC CONTROL DEVICES SHALL BE INSTALLED PRIOR TO BEGINNING OF WORK.
7. NOTIFY CITY OF CUPERTINO TRAFFIC SIGNAL MAINTENANCE FOR INSPECTION OF TRAFFIC SIGNAL FACILITY FOUNDATION EXCAVATIONS AT (408) 777-1366, TWO (2) WORKING DAYS PRIOR TO POURING ANY CABINET OR SIGNAL FOUNDATIONS RELATING TO THE JOB.
8. THE CONTRACTOR SHALL LOCATE UNDERGROUND FACILITIES IN THE AREA OF WORK. THE CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT (USA) AT 811 TWO (2) WORKING DAYS IN ADVANCE OF ANY WORK FOR LOCATION OF THE UNDERGROUND FACILITIES.
9. ALL UNDERGROUND UTILITIES SHALL BE INSTALLED AND BACKFILLED BEFORE PLACEMENT OF THE BASE MATERIAL AND SURFACE STRUCTURES. IF UTILITIES ARE TO BE INSTALLED SUBSEQUENTLY, A WRITTEN NOTIFICATION FROM THE AFFECTED UTILITY COMPANY INDICATING ITS COMMITMENT TO BORE OR TUNNEL SHALL BE SUBMITTED TO THE CITY ENGINEER BEFORE PROCEEDING WITH THE WORK. UNDERGROUND UTILITIES, EXCEPT STORM DRAINS AND SANITARY SEWERS, SHALL NOT BE PERMITTED IN PAVEMENT AREA, WITH THE EXCEPTION OF STREET CROSSINGS, UNLESS APPROVED BY THE CITY ENGINEER.
10. ALL WATER LINES, VALVES, HYDRANTS, AND APPURTENANCES THERETO INSTALLED WITHIN THE PUBLIC RIGHT-OF-WAY SHALL BE THE PROPERTY OF THE WATER UTILITY COMPANY.
11. STORM DRAIN LINES INSTALLED AS PART OF THE WORK ON THESE PLANS SHALL BE CLEARED OF ALL DEBRIS AND OBSTRUCTIONS PRIOR TO FINAL ACCEPTANCE.
12. ALL TRENCH BACKFILL, FILL AREAS, AND BASE MATERIAL SHALL ATTAIN A MINIMUM 95% RELATIVE COMPACTION. FOR TYPICAL TRENCH SECTIONS, EXCEPT FOR SANITARY SEWERS, REFER TO THE CITY STANDARD DETAILS.
13. THE DEVELOPER SHALL PAY ALL COSTS FOR MOISTURE-DENSITY CURVES (CALIF. TEST NO. 216E) AND ANY OTHER TESTS REQUIRED BY THE CITY ENGINEER DURING STREET CONSTRUCTION.
14. TREES, ROOTS, AND FOREIGN MATTER IN EXISTING OR PROPOSED RIGHT-OF-WAY SHALL BE REMOVED TO A DEPTH OF TWO (2) FEET BELOW SUBGRADE AND DISPOSED OF PER CALTRANS STANDARDS. IN THE CASE OF LIVE TREE ROOTS FROM CITY STREET TREES, CONTRACTOR SHALL CONTACT THE CITY FOR FIELD OBSERVATION PRIOR TO REMOVING TREE ROOTS.
15. TRENCH PLATES IN THE TRAVELED WAY SHALL BE TRAFFIC RATED, PROPERTY SECURED AND SHALL BE RECESSED UPON THE REQUEST OF THE DIRECTOR OF PUBLIC WORKS.
16. ALL TRENCHES LOCATED WITHIN 5' OF THE EDGE OF PAVEMENT (IE. CURB, LIP OF GUTTER, EDGE OF PAVEMENT, ETC.) SHALL BE REPAVED TO THE EDGE OF PAVEMENT.
17. ALL NEW PAVEMENT SHALL MATCH THE EXISTING PAVEMENT SECTION. A MINIMUM PAVEMENT SECTION OF 3" AC/6" CLASS 2 AB IS REQUIRED.
18. EXISTING PAVEMENT THAT IS REMOVED OR DAMAGED SHALL BE REPLACED AS REQUIRED BY THE CITY ENGINEER.
19. MANHOLE FRAMES AND COVERS SHALL BE BROUGHT TO FINISH GRADE PRIOR TO FINAL SIGNOFF.
20. FIVE (5) WORKING DAYS PRIOR TO INSTALLING PERMANENT STRIPING, THE CONTRACTOR SHALL CAT TRACK THE STRIPING AND REQUEST REVIEW OF THE CAT TRACKS BY THE CITY TRAFFIC ENGINEER. THE CITY ENGINEER SHALL HAVE THE RIGHT TO MAKE CHANGES IN THE LOCATION OF THE ALIGNMENT OF TRAFFIC STRIPES, PAVEMENT MARKINGS, AND PAVEMENT MARKERS.
21. CONCRETE FOR USE IN ALL CONCRETE STRUCTURES SHALL CONFORM TO CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS SECTION 90. DROP INLETS, SIDEWALKS, CURBS AND GUTTERS SHALL CONTAIN 590 LBS. OF CEMENT PER CUBIC YARD AND SHALL ATTAIN A MINIMUM STRENGTH OF 3,000 PSI IN 28 DAYS.
22. DROP INLETS SHALL BE CONSTRUCTED CONFORMING TO CITY STANDARD DETAILS UNLESS OTHERWISE NOTED ON THE PLANS. DROP INLETS SHALL BE INSTALLED CONCURRENT WITH THE CONSTRUCTION OF THE CURB AND GUTTER 'NO DUMPING FLOWS TO THE BAY.'PLAQUE SHALL BE INSTALLED ON THE CURB ADJACENT TO ALL INLETS.
23. A MINIMUM THICKNESS OF FIVE (5) INCHES OF CONCRETE SHALL BE REQUIRED FOR COMMERCIAL DRIVEWAY APPROACHES AND FOUR (4) INCHES FOR RESIDENTIAL. THE DRIVEWAY APPROACH SHALL BE INSTALLED CONCURRENT WITH THE CONSTRUCTION OF THE CURB AND GUTTER.
24. ONE POUND OF DISPERSING BLACK SHALL BE MIXED WITH EACH CUBIC YARD OF CONCRETE AT THE BATCH PLANT.
25. CITY STANDARD STREET LIGHTS SHALL BE INSTALLED AS REQUIRED BY THE DIRECTOR OF PUBLIC WORKS, AND SHALL CONFORM TO THE CITY STANDARD DETAILS AND NOTES. DURING CONSTRUCTION OPERATIONS, TEMPORARY STREET LIGHTING SHALL BE PROVIDED AS NECESSARY TO ENSURE THE PUBLIC SAFETY. TEMPORARY STREET LIGHTS SHALL BE INSTALLED AT THE DISCRETION OF, AND TO THE SATISFACTION OF, THE DIRECTOR OF PUBLIC WORKS.
26. CITY STANDARD STREET MONUMENTS SHALL BE CONSTRUCTED AT THE LOCATIONS SHOWN ON THE PLANS OR AS DIRECTED BY THE CITY ENGINEER.
27. NEW CITY STANDARD STREET MONUMENTS AND OTHER PERMANENT MONUMENTS DISTURBED DURING CONSTRUCTION SHALL BE REPLACED BEFORE ACCEPTANCE OF THE IMPROVEMENTS BY THE CITY ENGINEER. ATTENTION IS DIRECTED TO SECTION 8771 OF THE CALIFORNIA BUSINESS AND PROFESSIONS CODE FOR THE REQUIREMENTS CONCERNING SURVEY MONUMENTS. EXISTING SURVEY MONUMENTS SHALL BE LOCATED AND REFERENCED BY OR UNDER THE DIRECTION OF A LICENSED LAND SURVEYOR OR REGISTERED CIVIL ENGINEER PRIOR TO CONSTRUCTION OPERATIONS, AND A CORNER RECORD OR RECORD OF SURVEY SHALL BE FILED WITH THE COUNTY SURVEYOR OF THE COUNTY OF SANTA CLARA. EXISTING SURVEY MONUMENTS SHALL BE RESET TO FINISH GRADE, AND A CORNER RECORD OR RECORD OF SURVEY SHALL BE FILED WITH THE COUNTY SURVEYOR OF THE COUNTY OF SANTA CLARA PRIOR TO THE RECORDING OF THE CERTIFICATE OF COMPLETION FOR THE PROJECT.
28. CONSTRUCTION SURVEY STAKES OR MARKS (CONTROL STAKES) TO ESTABLISH LINES AND GRADES SHALL BE SET BY THE CONTRACTOR'S SURVEYOR OR ENGINEER.
29. NOTIFY THE CITY INSPECTOR TWO (2) WORKING DAYS IN ADVANCE OF REQUIRING SERVICES FOR CHECKING FIELD STAKING. THREE (3) COPIES OF THE CUT SHEETS SHALL BE FURNISHED TO THE CITY INSPECTOR.
30. GRADING OF LOTS SHALL BE COMPLETED AS DETERMINED BY THE CITY ENGINEER, AS SHOWN ON THE PLANS, AND SHALL FOLLOW REQUIREMENTS AND STANDARDS AS SET FORTH IN THE CITY STANDARD GRADING AND DRAINAGE NOTES.
31. DEMOLITION OF SEPTIC TANKS SHALL CONFORM TO SANTA CLARA COUNTY ENVIRONMENTAL HEALTH DEPARTMENT REGULATIONS. WORK SHALL BE DONE PRIOR TO CONSTRUCTION.
32. ALL PUBLIC IMPROVEMENTS MUST BE COMPLETED PRIOR TO OCCUPANCY.
33. CONTRACTOR IS RESPONSIBLE FOR DUST CONTROL AND ENSURING THE AREA ADJACENT TO THE WORK IS LEFT IN A CLEAN CONDITION.
34. CONTRACTOR SHALL REVIEW CITY DETAIL 6-4 ON TREE PROTECTION PRIOR TO ACCOMPLISHING ANY WORK OR REMOVING ANY TREES.
35. UTILIZE BEST MANAGEMENT PRACTICES (BMP'S), AS REQUIRED BY THE STATE WATER RESOURCES CONTROL BOARD, FOR ANY ACTIVITY, WHICH DISTURBS THE SOIL.
36. A WORK SCHEDULE OF GRADING AND EROSION & SEDIMENT CONTROL PLAN SHALL BE PROVIDED TO THE CITY ENGINEER BY AUGUST 15. NO HILLSIDE GRADING SHALL BE PERFORMED BETWEEN OCTOBER 1 TO APRIL 15.
37. ALL NEW ELECTRICAL SERVICE (POWER, PHONE, AND/OR CABLE) SHALL BE UNDERGROUNDED.
38. TO INITIATE RELEASE OF BONDS, CONTACT THE PUBLIC WORKS INSPECTOR FOR FINAL INSPECTION.
39. ALL DOWNSPOUTS TO BE RELEASED TO THE GROUND SURFACE, DIRECTED AWAY FROM BUILDING FOUNDATIONS AND DIRECTED TO LANDSCAPED AREAS.
40. PRIOR TO BEGINNING ANY WORK WITHIN THE PUBLIC RIGHT OF WAY, THE CONTRACTOR WILL BE RESPONSIBLE FOR PULLING AN ENCROACHMENT PERMIT FROM THE PUBLIC WORKS DEPARTMENT.

CUPERTINO SANITARY DISTRICT SANITARY SEWER NOTES

1. ALL WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THESE PLANS, THE CURRENT CUPERTINO SANITARY DISTRICT STANDARD SPECIFICATIONS AND CONSTRUCTION DETAILS, AND BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS' REQUIREMENTS AND SPECIFICATIONS.
2. ALL WORK SHALL COMPLY WITH ALL CURRENT LOCAL, STATE AND FEDERAL REQUIREMENTS.
3. ALL EXCAVATION, BACKFILL, AND PAVEMENT SECTION WITHIN STREET RIGHT-OF-WAY SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE ENGINEER OF THE PUBLIC AGENCY HAVING JURISDICTION AND DISTRICT STANDARD SPECIFICATIONS AND DETAILS. IN CASE OF CONFLICT BETWEEN PUBLIC AGENCY AND DISTRICT, AGENCY'S REQUIREMENTS SHALL TAKE PRECEDENCE.
4. AGENCY'S ENCROACHMENT PERMITS SHALL BE OBTAINED AND A COPY SHALL BE ON THE JOB DURING CONSTRUCTION.
5. FILL MATERIAL SHALL BE COMPACTED TO A MINIMUM OF TWO AND ONE HALF (2.5) FEET ABOVE THE TOP OF PIPE ELEVATION BY METHODS THAT WILL NOT DAMAGE THE PIPE OR TWO (2) SLURRY MIX. FILL MATERIAL MUST ATTAIN A MINIMUM OF NINETY FIVE PERCENT (95%) RELATIVE COMPACTION IN PAVEMENT AREAS IN ACCORDANCE WITH THE STATE OF CALIFORNIA STANDARD SPECIFICATIONS.
6. THE DISTRICT ENGINEER SHALL BE NOTIFIED TWO (2) WORKING DAYS IN ADVANCE OF STARTING CONSTRUCTION, 20863 STEVENS CREEK BOULEVARD, SUITE 100, CUPERTINO, CA 95014 (408) 253-7071. AT THAT TIME, TRAFFIC PLANS, ENCROACHMENT PERMITS AND THE SEWER DIVERSION PLANS SHALL BE SUBMITTED TO THE DISTRICT ENGINEER. SEWER DIVERSION PLANS SHALL INCLUDE SEWAGE BYPASS AND EMERGENCY PLANS. WORK SHALL NOT BEGIN UNTIL THE DISTRICT ENGINEER HAS PROVIDED WRITTEN ACCEPTANCE OF THESE PLANS.
7. ONE (1) SANITARY SEWER LATERAL SHALL BE INSTALLED FOR EACH LOT, RESIDENTIAL UNIT OR BUILDING WITH A CLEAN-OUT. LOCATION OF LATERAL AND PROPERTY CORNERS TO BE STAKED IN FIELD AT THE SAME TIME THE SEWER MAIN IS STAKED FOR CONSTRUCTION. LATERALS SHALL NOT BE LAID ON LESS THAN TWO PERCENT (2%) GRADE AND SHALL HAVE A MINIMUM COVER OF FOUR AND ONE HALF (4.5) FEET AT PROPERTY LINE OR EDGE OF SANITARY SEWER EASEMENT. LATERALS SHALL BE DEEPER THAN FOUR AND ONE HALF (4.5) FEET WHEN DIRECTED BY DISTRICT ENGINEER. LATERALS SHALL NOT BE EXTENDED BEYOND THE STREET RIGHT-OF-WAY LINE OR SANITARY SEWER EASEMENT LINE UNTIL THE MAIN HAS BEEN TESTED. LATERAL SEWERS CONSTRUCTED OUTSIDE OF THE PUBLIC STREET OR CUPERTINO SANITARY DISTRICT EASEMENT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE REQUIREMENTS OF, AND SHALL BE INSPECTED BY THE CITY BUILDING DEPARTMENT.
8. EXISTING LATERALS TO BE ABANDONED (OR NOT USED) SHALL BE REMOVED TO THE WYE, CAPPED AND CONCRETE COLLAR MINIMUM OF 6" ALL AROUND.
9. THE CONTRACTOR PERFORMING WORK ON THE SANITARY SEWERS SHALL BE REQUIRED TO REGISTER WITH THE DISTRICT AND PROVIDE INSURANCE AS SPECIFIED IN SECTIONS 1.39 AND 1.40 OF THE DISTRICT'S STANDARD SPECIFICATIONS.
10. THE DEVELOPER AND GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF ALL EXISTING IMPROVEMENTS INCLUDING EXISTING SANITARY SEWER FACILITIES THAT ARE TO REMAIN AND IF DAMAGED DURING CONSTRUCTION OF THE PROPOSED IMPROVEMENTS, SHALL BE REPAIRED TO THE SATISFACTION OF THE CUPERTINO SANITARY DISTRICT AND OTHER AFFECTED AGENCIES.
11. CHANNELS OF ALL DISTRICT MANHOLES WITHIN THE CONSTRUCTION AREA SHALL BE PROTECTED BY PLYWOOD COVERS, PLACED IN THE MANHOLES AND MANHOLE CASTINGS SHALL BE ADJUSTED TO FINAL GRADE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS OF THE CUPERTINO SANITARY DISTRICT OR AS DIRECTED BY THE DISTRICT ENGINEER.
12. THE DEVELOPER AND GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE PREVENTION OF CONSTRUCTION DEBRIS ENTERING THE EXISTING SANITARY SEWER SYSTEM DUE TO THE CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS PROJECT AND THE DEVELOPER AND CONTRACTOR SHALL PAY ALL COSTS ASSOCIATED WITH THE RELEASE OF CONSTRUCTION DEBRIS INTO THE EXISTING SANITARY SEWER SYSTEM DUE TO THE CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS PROJECT.
13. THE DEVELOPER AND GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE PREVENTION OF A SEWAGE SPILL ASSOCIATED THE CONTRACTORS ACTIVITIES AND SHALL PAY ALL COSTS ASSOCIATED WITH THE RELEASE OF SEWAGE INTO SURFACE DRAINAGE SYSTEM AND DOWNSTREAM SURFACE WATERS.
14. UTILITY NOTIFICATION:
    a. UNDERGROUND SERVICE ALERT 800-227-2600
    b. STORM DRAINS – CITY
    c. SANITARY SEWERS – CUPERTINO SANITARY DISTRICT
15. CONTRACTOR SHALL POTHOLE AND VERIFY LOCATION AND DEPTH OF ALL EXISTING UTILITIES CROSSING NEW SEWER MAIN OR LATERAL CONSTRUCTION
16. ALL SANITARY SEWER PIPES SHALL BE PVC-SDR26 OR APPROVED EQUAL, UNLESS OTHERWISE SPECIFIED BY THE DISTRICT ENGINEER.
17. ACCESS FOR PEDESTRIANS AND VEHICLES SHALL BE PROVIDED AT ALL TIMES UNLESS APPROVED IN WRITING BY THE DISTRICT ENGINEER.
18. SANITARY SEWER MANHOLES, FLUSHING INLETS AND CLEANOUTS SHALL BE MARKED WITH "SANITARY" OR "SANITARY SEWER".
19. AT THE DEVELOPER/GENERAL CONTRACTOR'S EXPENSE, CLOSED CIRCUIT VIDEO INSPECTION OF MAINS, LATERALS AND PROPERTY LINE CLEAN-OUTS IS REQUIRED. WHEN THE USE OF AN EXISTING LATERAL IS PROPOSED, AN ADDITIONAL VIDEO INSPECTION IS REQUIRED PRIOR TO CONSTRUCTION TO VERIFY THAT IT MEETS THE CURRENT DISTRICT STANDARDS.
20. APPROVAL OF THESE PLANS BY CUPERTINO SANITARY DISTRICT DOES NOT RELIEVE THE DEVELOPER/GENERAL CONTRACTOR OF THE RESPONSIBILITY FOR THE CORRECTION OF MISTAKES, ERRORS, OR OMISSIONS. IF, DURING THE COURSE OF CONSTRUCTION OF THE SANITARY SEWERS THE PUBLIC INTEREST REQUIRES A MODIFICATION OF, OR A DEPARTURE FROM THE DISTRICT SPECIFICATIONS AND/OR DETAILS, THE DISTRICT ENGINEER SHALL HAVE THE AUTHORITY TO REQUIRE SUCH MODIFICATIONS OR DEPARTURE AND TO SPECIFY THE MANNER IN WHICH THE MODIFICATIONS OR DEPARTURE IS TO BE DONE.
21. CONDITIONS OF APPROVAL TO BE MET DURING CONSTRUCTION:
    - INSTALL TWO (2) NEW SANITARY SEWER LOWER LATERALS TO DISTRICT'S STANDARDS. LOWER LATERALS MUST BE 6" PVC SDR26 AS SHOWN ON PLANS. LOWER LATERALS MUST EXTEND FROM THE SANITARY SEWER MAIN OR MANHOLE TO THE PROPERTY LINE FRONTING THE CITY RIGHT-OF-WAY.
        - •• THE CONTRACTOR PERFORMING WORK ON THE DISTRICT OWNED SANITARY SEWERS SHALL BE REQUIRED TO REGISTER WITH THE DISTRICT AND PROVIDE INSURANCE AS SPECIFIED IN SECTION 1.39 AND 1.40 OF THE DISTRICT'S STANDARD SPECIFICATIONS.
    - INSTALL TWO (2) NEW PROPERTY LINE CLEANOUTS TO DISTRICT'S STANDARDS. SEE ATTACHED DETAIL. PROPERLY LINE CLEANOUT MUST BE WITHIN 5 FEET OF THE PROPERTY LINE. CLEANOUT SHALL BE THE SAME DIAMETER AS THE STREET PORTION OF THE SERVICE LATERAL. GRAVITY LATERAL IS 6" DIAMETER. (O.C'. 4101)
    - CUPERTINO SANITARY DISTRICT INITIAL (VISUAL) INSPECTION REQUIRED. CONTRACTOR SHALL LEAVE NEW PIPE INSTALLATION EXPOSED. DO NOT BACKFILL. OWNER TO CONTACT DISTRICT 48 HOURS PRIOR TO SCHEDULING A DISTRICT INSPECTOR FOR A VISUAL INSPECTION. (O.C. 5203)
    - CUPERTINO SANITARY DISTRICT FINAL (CCTV) INSPECTION AND APPROVAL OF THE NEW PROPERTY LINE CLEANOUT, POINT OF CONNECTION, AND DISTRICT LATERAL IS REQUIRED PRIOR TO CLEARANCE FOR CITY OF CUPERTINO FINAL INSPECTION. OWNER MUST ALLOW DISTRICT AT LEAST 48 HOURS NOTICE TO SCHEDULE A DISTRICT INSPECTOR FOR A VIDEO INSPECTION. DISTRICT TO PROVIDE BUILDING DEPARTMENT WITH WRITTEN NOTIFICATION UPON COMPLETION OF INSPECTION. (O.C. 7102)

APPROVED AS TO COMPLIANCE WITH DISTRICT REQUIREMENTS ______________________________, 2020

CUPERTINO SANITARY DISTRICT

____
BENJAMIN T. PORTER, DISTRICT ENGINEER

PROJECT GENERAL NOTES

1. ALL WORK WITHIN PUBLIC RIGHT-OF-WAY SHALL BE PERFORMED IN ACCORDANCE WITH THE CITY OF CUPERTINO STANDARD SPECIFICATIONS. ON-SITE PRIVATE IMPROVEMENTS SHALL BE PERFORMED IN ACCORDANCE WITH PROJECT SPECIFICATIONS.
2. THESE PLANS AND SPECIFICATIONS, INCLUDING GRADES AND STREET DRAINAGE ARE SUBJECT TO MODIFICATION DURING CONSTRUCTION. SHOULD CONDITIONS APPEAR THAT WERE NOT APPARENT DURING DESIGN, ANY SUCH MODIFICATION SHALL BE APPROVED BY THE CITY ENGINEER.
3. CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY FIELD CHANGES MADE WITHOUT WRITTEN AUTHORIZATION FROM THE LOCAL AGENCY ENGINEER AND BKF ENGINEERS. ANY DEVIATIONS OR CHANGES IN THESE PLANS WITHOUT OFFICIAL APPROVAL OF THE DESIGN ENGINEER SHALL ABSOLVE THE DESIGN ENGINEER OF ANY AND ALL RESPONSIBILITY OF SAID DEVIATION OR CHANGE.
4. CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE STATE OF CALIFORNIA BEST MANAGEMENT PRACTICES HANDBOOK FOR APPLICABLE CONTROL MEASURES AND EMPLOY ITS PROVISIONS THROUGHOUT ALL CONSTRUCTION.
5. IT IS RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ALL PERMITS NECESSARY TO PERFORM THE IMPROVEMENTS IN THESE PLANS FROM THE APPROPRIATE AGENCIES AND TO COMPLY WITH THE AGENCIES' REQUIREMENTS. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL LAWS.
6. WHEN IT IS FOUND THAT FIELD CONDITIONS ARE NOT AS SHOWN ON THE PLANS, THE CONSULTING ENGINEER MUST MAKE REVISIONS AND/OR ADJUSTMENTS TO THE SATISFACTION OF THE CITY ENGINEER/OWNER PRIOR TO FURTHER CONSTRUCTION.
7. CONTRACTOR SHALL CAREFULLY PRESERVE THE SURROUNDING PROPERTY BY CONFINING OPERATION WITHIN THE LIMIT OF WORK AREA. ALL EXISTING UTILITIES AND IMPROVEMENTS THAT BECOME DAMAGED DURING CONSTRUCTION SHALL BE COMPLETELY RESTORED TO THE SATISFACTION OF THE CITY ENGINEER/OWNER.
8. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO IMMEDIATELY NOTIFY THE CITY INSPECTOR AND THE DESIGN ENGINEER UPON DISCOVERY OF ANY FIELD CONFLICTS.
9. CONTRACTOR IS RESPONSIBLE FOR MATCHING EXISTING STREETS, SURROUNDING LANDSCAPE AND OTHER IMPROVEMENTS WITH A SMOOTH TRANSITION IN PAVING, CURBS, GUTTERS, SIDEWALK, GRADING, ETC AND TO AVOID ANY ABRUPT OR APPARENT CHANGES IN GRADES OR CROSS SLOPES, LOW SPOTS OR HAZARDOUS CONDITIONS.
10. DO NOT LEAVE TRENCHES OPEN OVERNIGHT IN EXISTING STREET AREAS. BACKFILL OR COVER OPEN TRENCHES WITH STEEL TRENCH PLATES AT THE END OF THE WORK EVERY WORK DAY.
11. CONTRACTOR SHALL PROVIDE ALL LIGHTS, SIGNS, BARRICADES, FLAGGERS OR OTHER DEVICES NECESSARY TO PROVIDE FOR SAFETY. THE CONTRACTOR SHALL SUBMIT AND OBTAIN APPROVAL OF TRAFFIC CONTROL PLANS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
12. CONTRACTOR SHALL POST EMERGENCY TELEPHONE NUMBERS FOR POLICE, FIRE, AMBULANCE AND THOSE AGENCIES RESPONSIBLE FOR MAINTENANCE OF UTILITIES IN THE VICINITY OF JOB SITE PRIOR TO THE START OF WORK.
13. CONSTRUCTION STAKING SHALL BE DONE BY A CIVIL ENGINEER OR LAND SURVEYOR REGISTERED IN THE STATE OF CALIFORNIA.
14. BKF ENGINEERS DOES NOT SPECIFY NOR RECOMMEND THE USE OR INSTALLATION OF ANY MATERIAL OR EQUIPMENT WHICH IS MADE FROM, OR WHICH CONTAINS ASBESTOS FOR USE IN THE CONSTRUCTION OF THESE IMPROVEMENTS. ANY PARTY INSTALLING OR USING SUCH MATERIALS OR EQUIPMENT SHALL BE SOLELY RESPONSIBLE FOR ALL INJURIES, DAMAGES, OR LIABILITIES OF ANY KIND, CAUSED BY THE USE OF SUCH MATERIALS OR EQUIPMENT. THE PROVISIONS OF THIS NOTE SHALL APPLY UNLESS THEY ARE EXPRESSLY WAIVED IN WRITING BY BKF ENGINEERS.
15. THE GENERAL CONTRACTOR SHALL PROVIDE A QUALIFIED SUPERVISOR ON THE JOB SITE AT ALL TIMES DURING CONSTRUCTION.
16. UPON SATISFACTORY COMPLETION OF THE WORK, THE ENTIRE WORK SITE SHALL BE CLEANED UP AND LEFT WITH A SMOOTH AND NEATLY GRADED SURFACE FREE OF CONSTRUCTION WASTE AND RUBBISH OF ANY NATURE BY THE CONTRACTOR TO THE SATISFACTION OF THE CITY ENGINEER.
17. CONTRACTOR SHALL KEEP UP-TO-DATE A COMPLETE SET OF PRINTS OF THE CONTRACT DRAWINGS SHOWING EVERY CHANGE FROM THE ORIGINAL DRAWINGS MADE DURING THE COURSE OF CONSTRUCTION INCLUDING EXACT LOCATIONS, SIZES, MATERIALS AND EQUIPMENT. A COMPLETE SET OF CORRECTED AND COMPLETED RECORD DRAWINGS PRINTS SHALL BE SUBMITTED TO THE ENGINEER PRIOR TO FINAL ACCEPTANCE FOR REVIEW AND APPROVAL BY THE ENGINEER.
18. ALL ON-SITE GRADING AND PAVING SHALL CONFORM TO THE GEOTECHNICAL INVESTIGATION AND PAVEMENT DESIGN PREPARED BY GILES ENGINEERING ASSOCIATES INC, DATED APRIL 11, 2017, AND TO THE CITY STANDARD PLANS AND SPECIFICATIONS, AS APPLICABLE.
19. PROJECT TO BE DESIGNED AND CONSTRUCTED FOR AS A EV READY SITE PER CALGREEN 2018 REQUIREMENTS. EV PARKING STALLS AND CONDUIT SHALL BE INSTALLED PER THIS PERMIT. FUTURE EV CHARGER OPERABLE PARTS SHALL BE PLACED WITHIN REACH, MAX 48"/MIN 15" ABOVE GROUND SURFACE PER CBC 11B-208 AND 11B-309.3. OPERABLE PARTS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, TWISTING, OR MORE THAN 5 LBS MAXIMUM FORCE REQUIRED PER 11B-309.4.

UTILITY NOTES

1. THE CONTRACTOR SHALL COORDINATE UTILITY RELOCATION WORK WITH RESPONSIBLE AGENCIES.
2. GRAVITY FLOW UTILITIES SHALL BE CONSTRUCTED FROM DOWNSTREAM CONNECTION POINT TO UPSTREAM TERMINUS.
3. PROVIDE MINIMUM 12-INCH VERTICAL CLEARANCE BETWEEN ADJACENT UTILITY PIPES AT UTILITY CROSSINGS UNLESS OTHERWISE NOTED ON PLANS.
4. THE CONTRACTOR SHALL NOTIFY UTILITY PROVIDER MINIMUM 2 WORKING DAYS PRIOR TO COMMENCING WORK OR CONNECTION TO EXISTING UTILITIES. IF EXISTING WATER, STORM DRAIN, SEWER, GAS OR OTHER UTILITY SERVICES ARE DISTURBED OR DAMAGED DURING CONSTRUCTION, NOTIFY UTILITY OWNER IMMEDIATELY.
5. EXISTING UTILITIES TO REMAIN SHALL BE PROTECTED FROM DAMAGE CAUSED BY CONTRACTOR'S WORK.
6. UTILITY STRUCTURES IN PAVED AREAS SHALL BE PROVIDED WITH MATERIALS SUITABLE FOR H-20 LOADING.
7. PIPE LENGTHS SHOWN ON PLANS ARE FOR ENGINEERING CALCULATIONS ONLY AND ARE NOT INTENDED AS BID QUANTITIES OR FOR ORDERING MATERIALS.
8. JOINT TRENCH LINES AND APPURTENANCES ARE SHOWN FOR INFORMATION ONLY. CONTRACTOR SHALL REFERENCE JOINT TRENCH PLANS FOR INSTALLATION OF THESE FACILITIES.
9. CONTRACTOR SHALL STENCIL ALL CATCH BASINS WITH THE NON-POINT-SOURCE "NO DUMPING" MESSAGE. CONTRACTOR TO COORDINATE WITH THE CITY ENGINEER FOR THE STENCIL.
10. THE EXISTING UTILITY CROSSING THE NEW PIPELINE ARE SHOWN ACCORDING TO THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL VERIFY THE TYPE, SIZE, LOCATION AND DEPTH OF ALL THE UTILITY CROSSINGS (BOTH MAINS AND LATERALS) ARE CORRECTLY SHOWN. NO GUARANTEE IS MADE THAT ALL EXISTING UTILITIES (BOTH MAINS AND LATERALS) ARE SHOWN. THE CONTRACTOR SHALL EXERCISE CAUTION WHEN EXCAVATING AND SHALL PROTECT ALL EXISTING UTILITIES (BOTH MAINS AND LATERALS) FROM DAMAGE DUE TO HIS OPERATION.
11. ALL UTILITY STRUCTURES INCLUDING BUT NOT LIMITED TO MANHOLES, CATCH BASINS, WATER VALVES, FIRE HYDRANTS, CABLE TV, TELEPHONE, AND ELECTRIC VAULTS AND PULL BOXES ETC. THAT LIE WITHIN THE PUBLIC RIGHT OF WAY, EASEMENTS, OR AREAS AFFECTED BY THE WORK ON THE PROJECT SHALL BE ADJUSTED TO GRADE BY THE CONTRACTOR OF THE RESPECTIVE UTILITY COMPANY FOR WHICH THE CONTRACTOR IS RESPONSIBLE TO COORDINATE.
12. ON-SITE PVC SANITARY SEWER AND STORM DRAIN PIPE & FITTINGS SHALL CONFORM TO ASTM-D3034 AND F-679, SDR 26 PVC GRAVITY SEWER PIPE, AS MANUFACTURED BY JM PIPE OR APPROVED EQUAL. SANITARY SEWER LATERALS SHALL BE A MINIMUM OF 1' BELOW WATER LATERALS, UNLESS OTHERWISE NOTED. SEWER LINE TESTING SHALL BE PERFORMED IN ACCORDING WITH THE REQUIREMENTS OF THE MOST CURRENT BUILDING CODE.
13. CONTRACTOR SHALL COORDINATE UTILITY INFORMATION SHOWN ON THE PLANS WITH INSTALLATION OF PG&E, CABLE, TELEPHONE, AND/OR JOINT TRENCH LAYOUT AND DETAILS.
14. CONTRACTOR SHALL VERIFY ALL INVERT ELEVATIONS FOR STORM DRAIN AND SANITARY SEWER CONSTRUCTION PRIOR TO COMMENCEMENT OF ANY WORK. ALL WORK FOR STORM AND SANITARY SEWER INSTALLATION SHALL BEGIN AT THE DOWNSTREAM CONNECTION POINT. THIS WILL ALLOW FOR ANY NECESSARY ADJUSTMENTS TO BE MADE PRIOR TO THE INSTALLATION OF THE ENTIRE LINE. IF THE CONTRACTOR FAILS TO BEGIN AT THE DOWNSTREAM CONNECTION POINT AND DOWNSTREAM, CONTRACTOR SHALL PROCEED AT CONTRACTOR'S OWN RISK AND BE RESPONSIBLE FOR ANY ADJUSTMENTS NECESSARY. CONTRACTOR SHALL VERIFY LOCATION OF SANITARY SEWER LATERAL WITH OWNER PRIOR TO CONSTRUCTION. CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITY CROSSINGS PRIOR TO COMMENCEMENT OF CONSTRICTION.
15. IT IS THE CONTRACTOR'S RESPONSIBILITY TO POTHOLE AND/OR UNCOVER AND EXPOSE EXISTING UTILITIES AT CROSSING LOCATIONS. CONTRACTOR TO PROTECT ALL EXISTING UTILITIES AND SERVICE LATERALS FROM DAMAGE DUE TO CONTRACTOR'S OPERATIONS. ANY AND ALL UTILITY SERVICES LATERALS THAT ARE DAMAGED DURING CONSTRUCTION SHALL BE REPLACED TO THE SATISFACTION OF THE CITY ENGINEER.

EXISTING CONDITIONS NOTES

1. EXISTING BOUNDARY AND TOPOGRAPHIC INFORMATION SHOWN ON THESE PLANS ARE BASED ON BOUNDARY AND TOPOGRAPHIC SURVEY BY BKF, DATED NOVEMBER 2022. CONTRACTOR SHALL REVIEW THE PLANS AND CONDUCT FIELD INVESTIGATIONS AS REQUIRED TO VERIFY EXISTING CONDITIONS AT THE PROJECT SITE. SHOULD GRADES ENCOUNTERED VARY FROM THOSE SHOWN, CONTRACTOR SHALL CONTACT THE ENGINEER IMMEDIATELY FOR CLARIFICATION.
2. EXISTING SUBSURFACE IMPROVEMENTS AND UTILITIES SHOWN ON THESE PLANS WERE TAKEN FROM RECORD INFORMATION KNOWN TO THE ENGINEER AND FIELD SURVEY OF ABOVE GRADE FEATURES. THESE PLANS ARE NOT MEANT TO BE A FULL CATALOG OF EXISTING SUBSURFACE CONDITIONS. CONTRACTOR SHALL CONDUCT FIELD INVESTIGATION TO VERIFY THE LOCATIONS AND ELEVATIONS OF EXISTING SUBSURFACE IMPROVEMENTS AND UTILITIES, WHETHER SHOWN ON PLANS OR NOT, PRIOR TO START OF EXCAVATION. IF DISCREPANCIES BETWEEN EXISTING CONDITIONS AND THESE PLANS ARE DISCOVERED, NOTIFY THE DESIGN ENGINEER IMMEDIATELY AND REQUEST DISCREPANCY BE RESOLVED.
3. IF CONTRACTOR FAILS TO INVESTIGATE KNOWN AND UNKNOWN EXISTING SUBSURFACE IMPROVEMENTS PRIOR TO ANY CONSTRUCTION ACTIVITIES AND UNFORESEEN CONDITIONS ARISE, ALL COSTS AND SCHEDULE IMPACTS WILL BE BORNE BY THE CONTRACTOR.
4. CONTRACTOR SHALL PROVIDE INGRESS AND EGRESS FOR PRIVATE PROPERTIES ADJACENT TO CONSTRUCTION AREAS THROUGHOUT CONSTRUCTION PERIOD.

DEMOLITION NOTES

1. CONTRACTOR SHALL REMOVE FROM SITE AND DISPOSE OF IN A LAWFUL MANNER EXISTING STRUCTURES, UTILITIES, AND OTHER FEATURES AS INDICATED ON PLANS.
2. CONTRACTOR TO COORDINATE WORK WITH GOVERNING AGENCIES FOR EXISTING FIRE AND DOMESTIC LINES AND STRUCTURES WITHIN LIMIT OF WORK

RECORD DRAWINGS

1. THE CONTRACTOR SHALL KEEP ACCURATE RECORD OF FINAL LOCATION, ELEVATION AND DESCRIPTION OF WORK ON A COPY OF FINAL APPROVED CONSTRUCTION DOCUMENTS. NOTE THE LOCATIONS AND ELEVATIONS OF EXISTING IMPROVEMENTS ENCOUNTERED THAT VARY FROM THE LOCATIONS SHOWN ON THE IMPROVEMENT PLANS. THE CONTRACTOR SHALL PROVIDE COPY OF RECORD INFORMATION TO OWNER AT COMPLETION OF PROJECT AND TO CITY PUBLIC WORKS.

STATEMENT OF RESPONSIBILITY

1. CONTRACTOR AGREES THAT, IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD THE CITY, ITS AGENTS, OWNER AND ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXEMPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE ENGINEER.

ELECTRIC, TELEPHONE, GAS & CATV UTILITY INSTALLATION

THE ELECTRIC, TELEPHONE, GAS AND CABLE TV UTILITIES PLANS ARE PRELIMINARY, THESE UTILITIES SHALL NOT BE INSTALLED UNTIL THE FINAL JOINT UTILITY PLANS HAVE BEEN APPROVED BY THE PUBLIC WORKS DEPARTMENT AND UTILITY COMPANIES. AS-BUILT JOINT UTILITY PLANS SHALL BE INCLUDED WITH THE AS-BUILT OF THESE PLANS.

GEOTECHNICAL

SEE "GOETECHNICAL EVALUATION JOLLYMAN PARK ALL-INCLUSIVE PLAYGROUND" PREPARED BY NINYO & MOORE GEOTECHNICAL & ENVIRONMENTAL SCIENCES CONSULTANTS, DATED FEBRUARY 18, 2022.

ABBREVIATIONS

SYMBOL	DESCRIPTION
AB	AGGREGATE BASE
AC	ASPHALT CONCRETE
AD	AREA DRAIN
AGG	AGGREGATE
APPROX	APPROXIMATE
BB	BUBBLER BOX
BC	BEGINNING OF CURVE
BCR	BEGIN CURB RETURN
BLDG	BUILDING
BM	BENCH MARK
BO	BLOWOFF
BOV	BLOWOFF VALVE
BVC	BEGIN VERTICAL CURVE
BW	BACK OF WALK/ BOTTOM OF WALL
CB	CATCH BASIN
CS	CONCRETE SLAB
CDS	CUL-DE-SAC
C&G	CURB & GUTTER
C , CL	CENTERLINE
CMP	CORRUGATED METAL PIPE
CO	CLEANOUT
CONC	CONCRETE
CR	CURB RETURN
CVC	CENTER OF VERTICAL CURVE
DEFL	DEFLECTION
DG	DECOMPOSED GRANITE
DI	DROP INLET
DIP	DUCTILE IRON PIPE
DIA	DIAMETER
DS	DOWNSPOUT
DW	DOMESTIC WATER
D/W	DRIVEWAY
DWG	DRAWING
ELEC	ELECTRIC
(E)	EAST
EC	END OF CURVE
ECR	END OF CURB RETURN
EL	ELEVATION
EP	EDGE OF PAVEMENT
E.V.A.E.	EMERGENCY VEHICLE ACCESS EASEMENT
EVC	END VERTICAL CURVE
EW	EACHWAY
EX	EXISTING

SYMBOL	DESCRIPTION
(F)	FUTURE
FC	FLUSH CURB
FF	FINISHED FLOOR ELEVATION
FG	FINISHED GRADE
FH	FIRE HYDRANT
FL	FLOW LINE
FM	FORCE MAIN
FOB	FACE OF BUILDING
FP	FINISHED PAVEMENT
FT	FEET
G	GAS
GI	GRATE INLET
GB	GRADE BREAK
GE	GARAGE ELEVATION
GM	GAS METER
HP	HIGH POINT
HV	HIGH VOLTAGE
I.E.E.	INGRESS/EGRESS EASEMENT
INV	INVERT
IRR	IRRIGATION
JT	JOINT TRENCH
LAT	LATERAL
L	LENGTH
LF	LINEAR FEET
LG	LIP OF GUTTER
LP	LOW POINT
LT	LEFT
MAX	MAXIMUM
MB	MOW BAND
MH	MANHOLE
MIN	MINIMUM
MON	MONUMENT
OR	ORIFICE
(N)	NORTH/NEW
NO., #	NUMBER
NTS	NOT TO SCALE
P.A.E.	PUBLIC ACCESS EASEMENT
PCC	POINT OF COMPOUND CURVE or PORTLAND CEMENT CONCRETE
PE	PAD ELEVATION
PG&E	PACIFIC GAS AND ELECTRIC
PL	PROPERTY LINE
PROP	PROPOSED
P.O.C.	POINT OF CONNECTION
PRC	POINT OF REVERSE CURVE

SYMBOL	DESCRIPTION
P.S.D.E.	PRIVATE STORM DRAIN EASEMENT
P.S.E.	PUBLIC SERVICE EASEMENT
PT	POINT
P.U.E.	PUBLIC UTILITY EASEMENT
PV	PAVEMENT
PVC	POLYVINYL CHLORIDE
PVI	POINT OF VERTICAL INTERSECTION
R	RADIUS
RCP	REINFORCED CONCRETE PIPE
RIM EL	RIM ELEVATION
RPPA	REDUCED PRESSURE PRINCIPAL ASSEMBLY
RT	RIGHT
RS	RESILIENT SURFACE
R/W	RIGHT OF WAY
S	SLOPE
(S)	SOUTH
SD	STORM DRAIN
S.D.E.	STORM DRAIN EASEMENT
SDMH	STORM DRAIN MANHOLE
SHT.	SHEET
SJWC	SAN JOSE WATER COMPANY
SS	SANITARY SEWER
SSMH	SANITARY SEWER MANHOLE
ST.	STREET
STA	STATION
STD	STANDARD
S/W	SIDEWALK
T OR TELE	TELEPHONE
T&B	TOP AND BOTTOM
TC	TOP OF CURB
TEMP	TEMPORARY
TG	TOP OF GRATE
TP	TOP OF PAVEMENT
TYP.	TYPICAL
VC	VERTICAL CURVE
VERT.	VERTICAL
W	WATER
(W)	WEST
W/	WITH
W	WATERLINE
WM	WATER METER
WV	WATER VALVE

MIG
800 HEARST AVENUE
BERKELEY, CA 94710
TEL (510) 845-7549
www.migcom.com

Date:	02-21-2023
Scale:	AS SHOWN
Designed:	CA
Drawn:	JH
Checked:	PK
Proj. Engr:	
File:	C20211516

△	REVISIONS	DESIGN BY	DESIGN DATE	CITY APPR.	APPR. DATE

IMPROVEMENT PLANS FOR

ALL-INCLUSIVE PLAYGROUND AT JOLLYMAN PARK

CUPERTINO
CALIFORNIA

FOR CITY OF CUPERTINO USE
PROJECT # ___________

PUBLIC WORKS INSPECTOR:

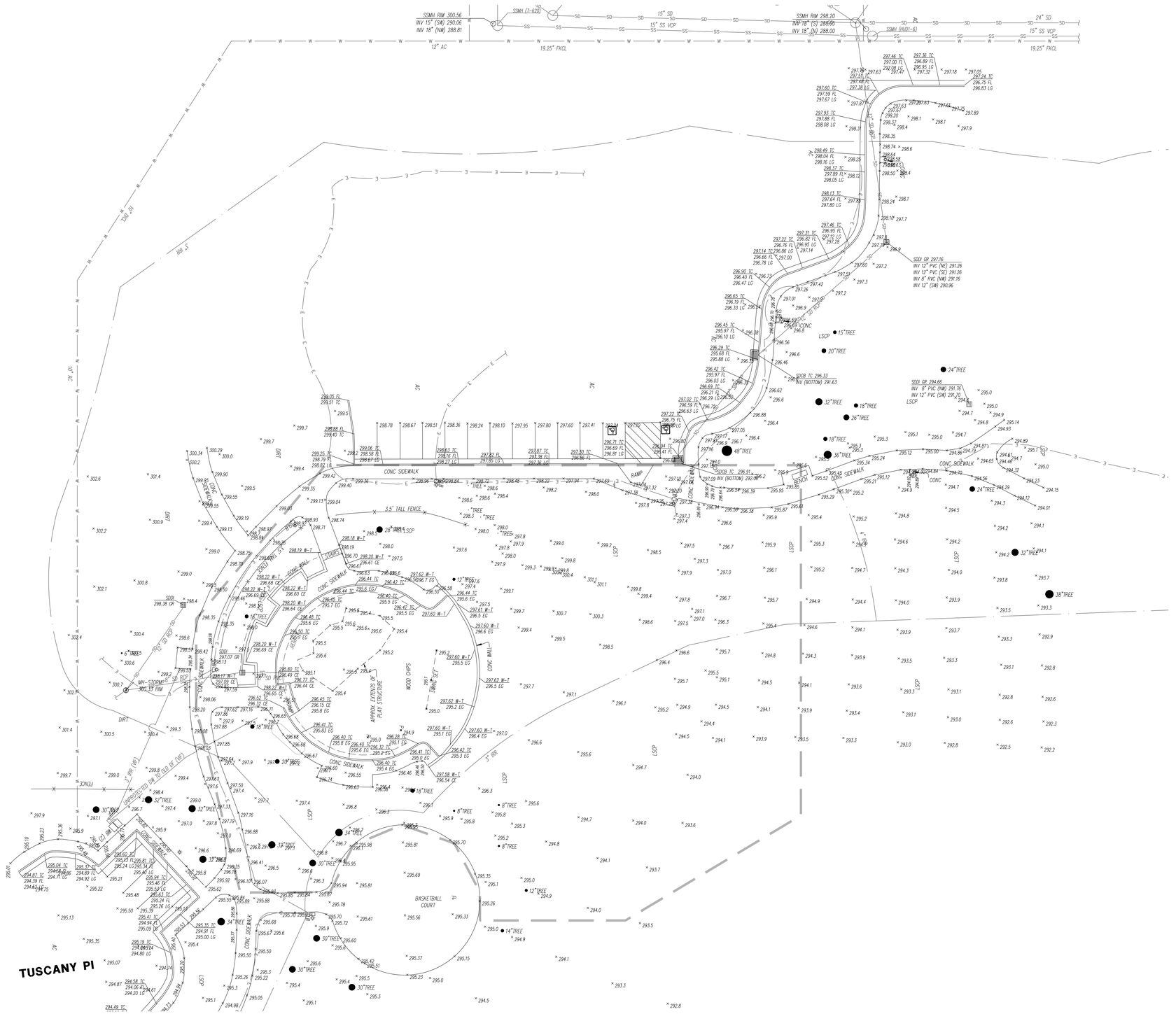
VOICE MAIL:

CITY OF CUPERTINO

C0.00
CIVIL GENERAL NOTES

SHEET

CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.



CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.

\\BKF-SJ\VOL4\2021\211516_CUPERTINO_JOLLYMAN_PARK_PLAYGROUND\ENGINEERING\SHEETS\00_JMP_EX.DWG

LEGEND

BOUNDARY LINE	
LOT LINE	
EASEMENT LINE	
LIMIT OF WORK	
FENCE LINE	
CONCRETE SIDEWALK	CC SW
OVERHEAD LINE	OH
COMMUNICATION LINE	COMM
ELECTRICAL LINE	E
GAS LINE	G
STORM DRAIN LINE	SD
SANITARY SEWER LINE	SS
WATER LINE	W
IRRIGATION LINE	
ELEVATION	(TC XX.X±)
COMMUNICATION BOX	COM
ELECTRIC BOX	▭ EB
FIRE HYDRANT	
GAS METER	○ GM
GUY WIRE	
JOINT POLE	JP
SANITARY SEWER CLEANOUT	○ SSCO
SANITARY SEWER MANHOLE	SS
STORM DRAIN CATCH BASIN	▦
STORM DRAIN DROP INLET	▦
STORM DRAIN MANHOLE	SD
STREET LIGHT BOX	▭ SLB
SURVEY IRON PIPE	●
SURVEY STREET MONUMENT	○
TRAFFIC SIGNAL	
TRAFFIC SIGNAL BOX	▭ TSB
UNKNOWN MANHOLE	○
WATER METER	▭ WM
WATER VALVE	○ WV

SURVEY NOTES

BASIS OF BEARINGS:

THE BEARING NORTH OF THE MONUMENT LINE OF STELLING ROAD, AS SAID BEARING AND MONUMENTS ARE SHOWN ON THAT CERTAIN TRACK MAP NO. 7160 FILE FOR RECORD ON MAY 1981 IN BOOK 491 OF MAPS AT PAGE 47, RECORDS OF SANTA CLARA COUNTY, WAS TAKEN AS THE BASIS OF BEARING FOR THIS SURVEY.

BENCHMARK:

CITY OF CUPERTINO BENCHMARK #33, A CONCRETE NAIL IN TOP OF CURB IN THE N/E RETURN ON STELLING ROAD AND GARDEN GATE DRIVE.

ELEVATION = 262.21 FEET

GENERAL NOTES:

1. DATE OF FIELD SURVEY: NOVEMBER 2022
2. ALL DISTANCES AND DIMENSIONS ARE SHOWN IN FEET AND DECIMALS THEREOF.
3. THE TYPES, LOCATIONS, AND SIZES OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THIS TOPOGRAPHIC SURVEY ARE BASED ON AS-BUILT MAPS, GIS MAPS, AND OTHER UTILITY INFORMATION FROM DIFFERENT SOURCES. ONLY ACTUAL EXCAVATION WILL REVEAL THE TYPES, EXTENT, SIZES, LOCATIONS AND DEPTHS OF SUCH UNDERGROUND UTILITIES. A REASONABLE EFFORT HAS BEEN MADE TO DELINEATE ALL KNOWN UNDERGROUND UTILITIES. CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR ALL EXISTING UTILITIES NOT SHOWN ON THESE DRAWINGS.

MIG
800 HEARST AVENUE
BERKELEY, CA 94710
TEL (510) 845-7549
www.migcom.com

Date:	02-21-2023
Scale:	AS SHOWN
Designed:	CA
Drawn:	JH
Checked:	PK
Proj. Engr:	
File:	C20211516

△	REVISIONS	DESIGN BY	DESIGN DATE	CITY APPR.	APPR. DATE

IMPROVEMENT PLANS FOR

ALL-INCLUSIVE PLAYGROUND AT JOLLYMAN PARK

CUPERTINO CALIFORNIA

FOR CITY OF CUPERTINO USE
PROJECT # ___________

PUBLIC WORKS INSPECTOR:

VOICE MAIL:

CITY OF CUPERTINO

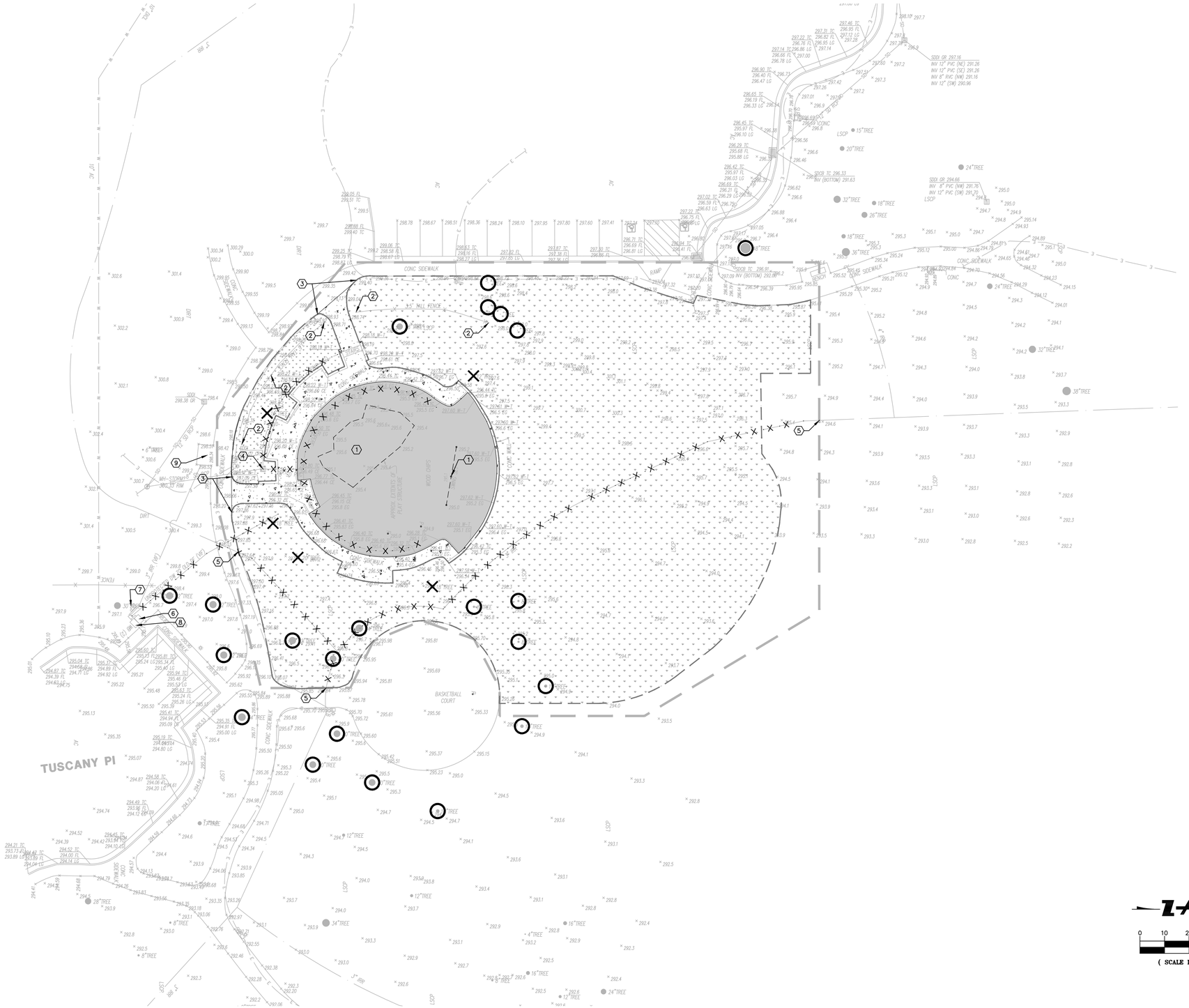
C0.10
EXISTING CONDITIONS

SHEET

ALL-INCLUSIVE PLAYGROUND AT JOLLYMAN PARK / 50% CD / NOT FOR CONSTRUCTION / 02-21-2023

FEBRUARY 2023

CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.



LEGEND

BOUNDARY LINE	— — — —
LOT LINE	— — — —
EASEMENT LINE	— — — —
REMOVE EXISTING UTILITY LINE	· X · X · X · X ·
CLEAR AND GRUB EXISTING LANDSCAPE AREA	▨
REMOVE CONCRETE AND BASE MATERIALS	▨
REMOVE EXISTING WOOD FIBER SURFACE	▨
TRENCH FOR PROPOSED UTILITIES, SEE UTILITY PLAN, SHEET C4.0 FOR MORE INFORMATION	▨
TREE TO BE PRESERVED. COORDINATE WITH ARBORIST, LANDSCAPE ARCHITECT, OWNER AND ADJACENT PROPERTY OWNER, PROVIDE TREE PROTECTION FENCE PER ARBORIST REPORT.	○
TREE TO BE REMOVED INCLUDING ALL ROOT MASSES. COORDINATE WITH LANDSCAPE ARCHITECT AND ARBORIST PRIOR TO REMOVAL OF TREES.	X

KEYNOTE

1. REMOVE EXISTING PLAY STRUCTURE
2. REMOVE EXISTING FENCE
3. PROTECT EXISTING SITE CONCRETE
4. PROTECT EXISTING STORM DRAIN DROP INLET
5. CAP EXISTING IRRIGATION LINE
6. REMOVE AND SALVAGE EXISTING WATER METER, CONTACT SAN JOSE WATER COMPANY FOR RE–USE
7. REMOVE EXISTING BACKFLOW PREVENTER
8. PROTECT EXISTING WATER METER
9. PROTECT EXISTING DRINKING FOUNTAIN

NOTES

1. THE CONTRACTOR SHALL VISIT THE PROJECT SITE PRIOR TO BIDDING TO DETERMINE THE EXACT EXTENT OF ALL SITE DEMOLITION ITEMS.
2. CONTRACTOR TO PROVIDE AN APPROXIMATE NEARBY AREA FOR MOBILZATION AND EQUIPMENT STORAGE TO THE CITY AND JOLLYMAN STAFF PRIOR TO PRE–CONSTRUCTION MEETING.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERIFICATION OF ALL EXISTING UTILITIES IN THE FIELD PRIOR TO CONSTRUCTION. LOCATIONS SHOWN ON THE PLANS ARE APPROXIMATE AND FOR GENERAL INFORMATION ONLY. THE CONTRACTOR SHALL BECOME FAMILIAR WITH ALL UNDERGROUND CONDITIONS PRIOR TO COMMENCEMENT OF WORK.
4. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS, STANDARD DETAILS AND SUBSEQUENT ADDENDA AS ADOPTED BY THE CITY COUNCIL, WHERE APPLICABLE AND ALSO THE SPECIAL PROVISIONS FOR THIS PROJECT.
5. THE CONTRACTOR SHALL PERFORM ALL CLEARING, DEMOLITION, REMOVAL OF OBSTRUCTIONS AND SITE PREPARATIONS NECESSARY FOR THE PROPER EXECUTION OF ALL WORK SHOWN ON THESE PLANS AND AS DESCRIBED IN THE SPECIFICATIONS.
6. THE CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION ON THE PROJECT (U.S.A. AT 811). THE CONTRACTOR SHALL REMOVE ALL USA MARKINGS, AS SOON AS THEY ARE NO LONGER NEEDED, BY USING A HIGH PRESSURE WATER METHOD ONLY. THE CITY ENCOURAGES THE USE OF CHALK PAINT WHENEVER POSSIBLE.
7. THE CONTRACTOR SHALL BE RESPONSIBLE UNDER THIS CONTRACT FOR REPAIRING/REPLACING AT THE CONTRACTORS OWN EXPENSE, ANY STRUCTURES, FENCES, WALLS, OR PLANT LIFE DAMAGED OR DESTROYED BY THE CONTRACTORS OPERATION. LIKEWISE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING OR REPLACING ANY AND ALL DAMAGES OCCURRING BY THEIR OPERATION, ON ADJACENT PROPERTIES AND ANYWHERE OUTSIDE THE CONTRACT LIMIT LINES. THE DAMAGED ITEMS WILL BE RESTORED TO THEIR ORIGINAL CONDITION AND TO THE SATISFACTION OF THE ENGINEER.
8. KEEP ALL PLANTING, PAVING AND CURB AREAS FREE FROM WEEDS, DEBRIS AND TRASH DURING THE ENTIRE DURATION OF THE CONTRACT. WEED CONTROL HERBICIDES SHALL BE APPLIED IF THE ENGINEER DEEMS IT NECESSARY. TYPE OF HERBICIDE TO BE USED AND METHOD OF APPLICATION SHALL BE APPROVED BY THE ENGINEER.
9. CARE SHOULD BE TAKEN WITH EXISTING TREES TO REMAIN. GRADES WITHIN THE DRIP LINE OF THE TREE SHALL NOT BE CHANGED UNLESS OTHERWISE SPECIFIED ON THE PLANS. ANY COMPACTION OF THE AREA WITHIN THE DRIP LINE SHALL BE AVOIDED.
10. ALL ITEMS INDICATED TO BE REMOVED SHALL BE DISPOSED OF FROM THE PROJECT SITE, EXCEPT ITEMS INDICATED TO BE SALVAGED.
11. FOR ANY ON–SITE AND OFF–SITE TREES TO REMAIN, THE CONTRACTOR SHALL PROTECT EXISTING TREES AND TREE ROOTS FROM ANY DAMAGE. TREE PROTECTION SHALL BE INSTALLED PER CITY STANDARD DETAIL 6–4.

MIG
800 HEARST AVENUE
BERKELEY, CA 94710
TEL (510) 845-7549
www.migcom.com

Date:	02-21-2023
Scale:	AS SHOWN
Designed:	CA
Drawn:	JH
Checked:	PK
Proj. Engr:	
File:	C20211516

	REVISIONS	DESIGN BY	DESIGN DATE	CITY APPR.	APPR. DATE
△					

IMPROVEMENT PLANS FOR

ALL-INCLUSIVE PLAYGROUND AT JOLLYMAN PARK

CUPERTINO CALIFORNIA

FOR CITY OF CUPERTINO USE
PROJECT # __________

PUBLIC WORKS INSPECTOR:

VOICE MAIL:

CITY OF CUPERTINO

C1.10
DEMOLITION PLAN

SHEET

FEBRUARY 2023

\\BKF-SJ\VOL4\2021\211516_CUPERTINO_JOLLYMAN_PARK_PLAYGROUND\ENG\ENGINEERING\SHEETS\01_JMP_DM.DWG

ALL-INCLUSIVE PLAYGROUND AT JOLLYMAN PARK / 50% CD / NOT FOR CONSTRUCTION / 02-21-2023

CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.

In the Santa Clara Valley, storm drains flow directly to our local creeks, and on to San Francisco Bay, with no treatment.

Storm water pollution is a serious problem for wildlife dependent on our waterways and for the people who live near polluted streams or baylands.

Proper management of construction sites reduces pollution significantly.

This sheet summarizes the "Best Management Practices" (BMPs) for storm water pollution prevention.

ORDINANCE OF THE CITY OF CUPERTINO FOR STORM WATER POLLUTION PREVENTION & WATERCOURSE PROTECTION: Chapter 9.18

9.18.040 Discharge into the storm drain prohibited
It is unlawful to cause, allow, or permit to be discharged, any discharge not composed entirely of stormwater to the storm drain system or to surface waters or to any location where it would contact or eventually be transported to surface waters, including flood plain areas, unless specifically called out in the Municipal Regional Permit as an exempt or conditionally exempt discharge.

9.18.070 Accidental Discharge
All persons shall notify the Director of Public Works immediately upon accidentally discharging pollutants of concern to enable countermeasures to be taken by the City to minimize damage to storm drains and the receiving waters. Initial notification shall be followed, within five (5) business days of the date of occurrence, by a detailed written statement describing the causes of the accidental discharge and the measures being taken to prevent future occurrences. Such notification will not relieve persons of liability for violations of this chapter or for any fines imposed on the City on account thereof under Section 13350 of the California Water Code, or for violation of Section 5650 of the California Fish and Wildlife Code, or any other applicable provisions of State or Federal laws.

9.18.220 Violation*
Any person who violates any provision of this Chapter shall be guilty of a misdemeanor and upon conviction thereof shall be punished as provided in Chapter 1.12 of the City of Cupertino Municipal Code.

Chapter 1.12: General Penalty, Section 1.12.010, paragraph D, states*:

Unless otherwise specified by this code, an infraction is punishable by:
1. A fine not to exceed $100 for a first violation
2. A fine not to exceed $200 for a second violation
3. A fine not to exceed $500 for a third violation of the same chapter within one year.

9.18.240 Civil penalty for illicit discharges*
Any person who discharges pollutants, in violation of this Chapter, by the use of illicit connections shall be civilly liable to the City in a sum **not to exceed twenty-five thousand dollars per day per violation** for each day in which such violation occurs.

*Excerpts – For complete CODE language refer to the City ofCupertino Municipal Code.

Cupertino
Building Dept: 408-777-3228
Public Works Dept: 408-777-3354
Santa Clara County
Recycling Hotline: 800-533-8414
www.reducewaste.org
www.recyclestuff.com
Small Business Hazardous Waste: 408-299-7300
Cupertino Sanitary Sewer Distr 408-253-7071
Santa Clara Valley Urban Runoff Pollution Prevention Prgm 800-794-2482
State Office of Emergency Services 1-800-852-7550 (24 hrs)
Report spills to **911**

General Construction and Site Supervision

Storm Drain Pollution from Construction Activities

Construction sites are common sources of storm water pollution. Materials and wastes that blow or wash into a storm drain, gutter, or street have a direct impact on local creeks and the Bay.

As a contractor, or site supervisor, owner or operator of a site, you may be responsible for any environmental damage caused by your subcontractors or employees.

General Principles
- ❑ Keep an **orderly site** and ensure good housekeeping practices are used.
- ❑ **Maintain equipment** properly.
- ❑ **Cover** materials when they are not in use.
- ❑ Keep materials **away from streets**, storm drains and drainage channels.
- ❑ Ensure **dust control** water doesn't leave site or discharge to storm drains.

Advance Planning To Prevent Pollution
- ❑ **Schedule excavation and grading activities for dry weather periods.** To reduce soil erosion, plant temporary vegetation or place other erosion controls before rain begins. Use the *Erosion and Sediment Control Manual*, available from the Regional Water Quality Control Board, as a reference.
- ❑ **Control the amount of runoff** crossing your site (especially during excavation!) by using berms or temporary or permanent drainage ditches to divert water flow around the site. Reduce stormwater runoff velocities by constructing temporary check dams or berms where appropriate.
- ❑ **Train your employees and subcontractors.** The city can provide brochures about these issues for you to distribute to workers at your construction site. Inform your subcontractors about the stormwater requirements and their own responsibilities. Use *Blueprint for a Clean Bay*, a construction best management practices guide available at our Building Dept. counter.

Good Housekeeping Practices
- ❑ **Designate one area of the site** for auto parking, vehicle refueling, and routine equipment maintenance. The designated area should be well away from streams or storm drain inlets, bermed if necessary. Make major repairs off site.
- ❑ **To prevent off-site tracking of dirt,** provide entrances with stabilized aggregate surfaces. Or provide a tire wash area.
- ❑ **Keep materials out of the rain** – prevent runoff contamination at the source. Cover exposed piles of soil or construction materials with plastic sheeting or temporary roofs. Before it rains, sweep and remove materials from surfaces that drain to storm drains, creeks, or channels.
- ❑ **Contain all litter, food wrappers, bottles and cans.** Place lidded trash and recycling bins around the site.
- ❑ **Clean up leaks, drips and other spills** immediately so they do not contaminate soil or groundwater or leave residue on paved surfaces. Use dry cleanup methods whenever possible. If you must use water, use just enough to keep the dust down.
- ❑ **Cover and maintain dumpsters.** Place dumpsters under roofs or cover with tarps or plastic sheeting secured around the outside of the dumpster. Never clean out a dumpster by hosing it down on the construction site.
- ❑ **Place portable toilets** away from storm drains. Make sure portable toilets are in good working order. Check frequently for leaks.

Materials/Waste Handling
- ❑ **Practice Source Reduction** -- minimize waste when you order materials. Estimate carefully.
- ❑ **Recycle excess materials** whenever possible, such as concrete, asphalt, scrap metal, solvents, degreasers, cleared vegetation, paper, rock, and vehicle maintenance materials such as used oil, antifreeze, batteries, and tires. www.reducewaste.org for info.
- ❑ **Dispose of all wastes properly.** Materials that cannot be recycled must be taken to an appropriate landfill or disposed of as hazardous waste. Never bury waste materials or leave them in the street or near a creek or stream bed.

Permits
- ❑ In addition to local grading and building permits, you will need to obtain coverage under the State's General Construction Activity Stormwater Permit if your construction **site's disturbed area totals 5 acres or more.** Information on the General Permit can be obtained from the Regional Water Quality Control Board. (This criteria will change to one acre as of Mar. 2003.)

Landscaping, Gardening, and Pool Maintenance

Landscaping/Garden Maintenance
- ❑ **Protect stockpiles** and landscaping materials **from wind and rain** by storing them under tarps or secured plastic sheeting.
- ❑ **Schedule** grading and excavation projects **during dry weather.**
- ❑ Use temporary **check dams or ditches** to divert runoff away from storm drains.
- ❑ **Protect storm drains with sandbags, gravel-filled bags, straw wattles,** or other sediment controls.
- ❑ **Re-vegetation** is an excellent form of erosion control for any site.
- ❑ **Store** pesticides, fertilizers, and other chemicals **indoors** or in a shed or storage cabinet.
- ❑ **Use pesticides sparingly**, according to instructions on the label. Rinse empty containers, and use rinsewater as product. Dispose of rinsed, empty containers in the trash. Dispose of unused pesticides as hazardous waste.
- ❑ In Cupertino, **residents** with curbside recycling can collect lawn, garden and tree trimmings in **yardwaste toters.** Yardwaste will be collected and composted by the city's contractors. Residents are encouraged to compost yardwaste on-site themselves. Or take yardwaste to a landfill where it will be composted.
- ❑ **Landscape contractors** should **take** clippings and pruning waste **to a landfill that composts yard waste** (BFI's Newby Island and Zanker Rd. landfill are the nearest).
- ❑ **Do not blow or rake leaves into the street.**

Storm Drain Pollution from Landscaping and Swimming Pool Maintenance

Many landscaping activities expose soils and increase the likelihood that earth and garden chemicals will run off into the storm drains during irrigation or when it rains.
Swimming pool water containing chlorine and copper-based algaecides should never be discharged to storm drains. These chemicals are toxic to aquatic life.

Pool/Fountain/Spa Maintenance

Draining pools or spas

When it's time to drain a pool, spa, or fountain please be sure to call the Cupertino Sanitary District before you start for further guidance on flow rate restrictions, backflow prevention, and handling special cleaning waste (such as acid wash). Discharge flows should be kept to the low levels typically possible through a garden hose. Higher flow rates may be prohibited by local ordinance.

- ❑ **Never discharge pool or spa water to a street or storm drain; discharge to a sanitary sewer cleanout.**
- ❑ If possible, when emptying a pool or spa, let chlorine dissipate for a few days and then recycle/reuse water by **draining it gradually onto a landscaped area.**
- ❑ **Do not use copper-based algaecides.** Control algae with chlorine or other alternatives, such as sodium bromide.

Filter Cleaning
- ❑ **Never clean a filter in the street or near a storm drain.** Rinse cartridge and diatomaceous earth filters onto a dirt area, and spade filter residue into soil. Dispose of spent diatomaceous earth in the garbage.
- ❑ **If there is no suitable dirt area,** call Cupertino Sanitary for instructions on discharging filter backwash or rinsewater to the sanitary sewer.

Earth-Moving Activities

Storm Drain Pollution from Earth-Moving Activities

Soil excavation and grading operations loosen large amounts of soil that can flow or blow into storm drains when handled improperly. Sediments in runoff can clog storm drains, smother aquatic life, and destroy habitats in creeks and the Bay. Effective erosion control practices reduce the amount of runoff crossing a site *and* slow the flow with check dams or roughened ground surfaces.

Practices During Construction
- ❑ Remove existing vegetation only when absolutely necessary. **Plant temporary vegetation for erosion control** on slopes or where construction is not immediately planned.
- ❑ **Protect downslope drainage courses, streams, and storm drains** with wattles, or temporary drainage swales. Use check dams or ditches to **divert runoff around excavations.** Refer to the Regional Water Quality Control Board's *Erosion and Sediment Control Field Manual* for proper erosion and sediment control measures.
- ❑ **Cover stockpiles** and excavated soil with secured tarps or plastic sheeting.

Dewatering Operations

Storm Drain Pollution From Dewatering Activities

Be sure to call your city's storm water inspector at 408-472-9907 before discharging water to a street, gutter, or storm drain. Filtration or diversion through a basin, tank, and sediment trap may be required. Reuse water for dust control, irrigation or another on-site purpose to the greatest extent possible.

Check for Sediment or Toxic Pollutants
- ❑ Check for odors, discoloration, or an oily sheen on groundwater.
- ❑ Ask your city inspector whether the groundwater must be tested by a certified laboratory.
- ❑ Depending on the test results, you may be allowed to discharge pumped groundwater to the storm drain OR you may be required to discharge to the sanitary sewer or collect and haul the water off-site for treatment and disposal at an appropriate treatment facility.
- ❑ When discharging to a storm drain, protect the inlet using a barrier of burlap bags filled with drain rock, or cover inlet with filter fabric anchored under the grate.
- ❑ Contact Cupertino Sanitary District at 253-7071 prior to discharging to the sanitary sewer.

Heavy Equipment Operation

Stormwater Pollution from Heavy Equipment on Construction Sites

Poorly maintained vehicles and heavy equipment that leak fuel, oil, antifreeze or other fluids on the construction site are common sources of storm drain pollution. Prevent spills and leaks by isolating equipment from runoff channels, and by watching for leaks and other maintenance problems. Remove construction equipment from the site as soon as possible.

Site Planning and Preventive Vehicle Maintenance
- ❑ **Designate one area** of the construction site, well away from streams or storm drain inlets, for auto and equipment parking, refueling, and routine vehicle and equipment maintenance. Contain the area with berms, sand bags, or other barriers.
- ❑ **Maintain all vehicles** and heavy equipment. Inspect frequently for and repair leaks.
- ❑ **Perform major maintenance,** repair jobs, and vehicle and equipment washing **off-site,** where cleanup is easier.
- ❑ If you must drain and replace motor oil, radiator coolant, or other fluids on site, **use drip pans or drop cloths to catch drips and spills.** Collect all spent fluids, store in separate containers, and properly dispose as hazardous waste (recycle whenever possible).
- ❑ **Do not use diesel oil to lubricate** equipment parts, or clean equipment. Use only water for any onsite cleaning.
- ❑ **Cover exposed fifth wheel hitches** and other oily or greasy equipment during rain events.

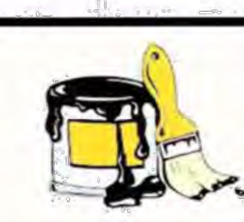
Spill Cleanup
- ❑ **Clean up spills immediately.**
- ❑ **Never hose down** "dirty" pavement or impermeable surfaces where fluids have spilled. **Use dry cleanup methods** (absorbent materials, cat litter, and/or rags) whenever possible and properly dispose of absorbent materials.
- ❑ **Sweep up** spilled dry materials immediately. Never attempt to "wash them away" with water, or bury them.
- ❑ **Use as little water as possible** for dust control. Ensure water used doesn't leave silt or discharge to storm drains.
- ❑ **Clean up spills on dirt areas** by digging up and properly disposing of contaminated soil.
- ❑ **Call 911 for significant spills.**
- ❑ If the spill poses a **significant hazard** to human health and safety, property or the environment, you must also **report it** to the State Office of Emergency Services.

The property owner and the contractor share ultimate responsibility for the activities that occur on a construction site. You may be held responsible for any environmental damage caused by your subcontractors or employees.

Removal of BMP Facilities

The Project Contractor is responsible for removal of all BMP Facilities located within the Public Right of Way upon project final inspection.

Painting and Application of Solvents and Adhesives



Storm Drain Pollution from Paints, Solvents, and Adhesives

All paints, solvents, and adhesives contain chemicals that are harmful to wildlife in local creeks, San Francisco Bay, and the Pacific Ocean. Toxic chemicals may come from liquid or solid products or from cleaning residues or rags. Paint material and wastes, adhesives and cleaning fluids should be recycled when possible, or disposed of properly to prevent these materials from flowing into storm drains and watercourses.

Handling Paint Products
- ❑ **Keep all liquid paint products and wastes away from the gutter, street, and storm drains.**

Painting Cleanup
- ❑ **Never clean brushes or rinse paint containers into a street, gutter, storm drain, French drain, or creek.**
- ❑ For **water-based paints**, paint out brushes to the extent possible, and rinse into an inside sink drain that goes to the sanitary sewer.
- ❑ For **oil-based paints**, paint out brushes to the extent possible and clean with thinner or solvent. Filter and reuse thinners and solvents, where possible. Dispose of excess liquids and residue as hazardous waste.
- ❑ When thoroughly dry, empty paint cans, used brushes, rags, and drop cloths may be **disposed of as garbage.**

Paint Removal
- ❑ **Paint chips and dust from non-hazardous dry stripping and sand blasting** may be swept up or collected in plastic drop cloths and disposed of as trash.
- ❑ **Chemical paint stripping residue,** and chips and dust from **marine paints,** or **paints containing lead, mercury or tributyl tin** must be disposed of as hazardous wastes. Lead based paint removal requires a state-certified contractor.
- ❑ When stripping or cleaning **building exteriors** with high-pressure water, block storm drains. **Direct washwater onto a dirt area** and spade into soil. Or, check with Cupertino Sanitary District to find out if you can mop or vacuum the washwater and **dispose of it in a sanitary sewer drain.** Sampling of the washwater may be required.
- ❑ **Washwater from painted buildings constructed before 1978** can contain high amounts of **Lead,** even if paint chips are not present. Before you begin stripping paint or cleaning pre-1978 building exteriors with water under high pressure, test paint for lead by taking paint scrapings to a local laboratory. (See Yellow Pages for a state-certified laboratory.)
- ❑ If there is **loose paint** on the building, or if the **paint tests positive for lead,** block storm drains. Check with Cupertino Sanitary District to determine whether you may discharge water to the sanitary sewer, or if you must send it offsite for disposal as hazardous waste.

Paint Disposal, Return or Donation
- ❑ **Dispose of** unwanted liquid paint, thinners, solvents, glues, and cleaning fluids **as hazardous waste** (call the Small Business Hazardous Waste Prgm: 299-7300).
- ❑ Or **Return** to supplier. (Unopened cans of paint may be able to be returned. Check with the vendor regarding its "buy-back" policy.)
- ❑ **Donate** excess paint (call 299-7300 to donate.)

Roadwork and Paving

General Business Practices
- ❑ Develop and implement **erosion/sediment control plans** for roadway embankments.
- ❑ Schedule excavation and grading work during **dry weather.**
- ❑ Check for and **repair leaking equipment.**
- ❑ Perform **major equipment repairs** at designated areas in your maintenance yard, where cleanup is easier. Avoid performing equipment repairs at construction sites.
- ❑ When **refueling** or when vehicle/equipment maintenance must be done on site, designate a location away from storm drains and creeks.
- ❑ **Do not use diesel oil to lubricate** equipment parts or clean equipment.
- ❑ **Recycle** used oil, concrete, broken asphalt, etc. whenever possible, or dispose of properly. (www.recyclestuff.com for list of recycling companies.)

Asphalt/Concrete Removal
- ❑ Avoid creating excess **dust** when breaking asphalt or concrete.
- ❑ After breaking up old pavement, be sure to **remove all chunks and pieces.** Make sure broken pavement does not come in contact with rainfall or runoff.
- ❑ When making **saw cuts**, use as little water as possible. Shovel or vacuum saw-cut slurry and remove from the site. Cover or protect storm drain inlets during saw-cutting. Sweep up, and properly dispose of, all residues.
- ❑ Sweep, **never hose down streets** to clean up tracked dirt. Use a street sweeper or vacuum truck. Do not dump vacuumed liquor in storm drains.

Storm Drain Pollution from Roadwork

Road paving, surfacing, and pavement removal happen right in the street, where there are numerous opportunities for asphalt, saw-cut slurry, or excavated material to illegally enter storm drains. Extra planning is required to store and dispose of materials properly and guard against pollution of storm drains, creeks, and the Bay.

During Construction
- ❑ **Avoid paving and seal coating in wet weather,** or when rain is forecast, to prevent fresh materials from contacting stormwater runoff.
- ❑ **Cover and seal catch basins and manholes** when applying seal coat, slurry seal, fog seal, or similar materials.
- ❑ **Protect drainage ways** by using earth dikes, sand bags, or other controls to divert or trap and filter runoff.
- ❑ Never wash excess material from **exposed-aggregate concrete** or similar treatments into a street or storm drain. Collect and recycle, or dispose to dirt area.
- ❑ **Cover stockpiles** (asphalt, sand, etc.) and other construction materials with plastic tarps. Protect from rainfall and prevent runoff with temporary roofs or plastic sheets and berms.
- ❑ Park **paving machines** over drip pans or absorbent material (cloth, rags, etc.) to catch drips when not in use.
- ❑ **Clean up all spills and leaks** using "dry" methods (with absorbent materials and/or rags), or dig up, remove, and properly dispose of contaminated soil.
- ❑ Collect and recycle or appropriately dispose of excess abrasive gravel or sand. ???
- ❑ Avoid over-application by **water trucks** for dust control.

Fresh Concrete and Mortar Application

Storm Drain Pollution from Fresh Concrete and Mortar Applications

Fresh concrete and cement-related mortars that wash into lakes, streams, or estuaries are toxic to fish and the aquatic environment. Disposing of these materials to the storm drains or creeks can block storm drains, causes serious problems, and is prohibited by law.

General Business Practices
- ❑ Wash out concrete mixers only in designated **washout areas** in your yard, away from storm drains and waterways, where the water will flow into a temporary waste pit in a dirt area. Let water percolate through soil and dispose of settled, hardened concrete as garbage. Whenever possible, recycle washout by pumping back into mixers for reuse.
- ❑ **Wash out chutes** onto dirt areas that do not flow to streets or drains.
- ❑ **Always store both dry and wet materials under cover,** protected from rainfall and runoff and away from storm drains or waterways. Protect dry materials from wind.
- ❑ **Secure bags of cement** after they are open. Be sure to keep wind-blown cement powder away from streets, gutters, storm drains, rainfall, and runoff.
- ❑ **Do not use diesel fuel as a lubricant** on concrete forms, tools, or trailers.

During Construction
- ❑ **Don't mix up more** fresh concrete or cement than you will use in a two-hour period.
- ❑ Set up and **operate small mixers on tarps** or heavy plastic drop cloths.
- ❑ When cleaning up after driveway or sidewalk construction, **wash fines onto dirt areas,** not down the driveway or into the street or storm drain.
- ❑ **Protect** applications of fresh concrete and mortar **from rainfall** and runoff until the material has dried.
- ❑ Wash down **exposed aggregate concrete** only when the washwater can (1) flow onto a dirt area, (2) drain onto a bermed surface from which it can be pumped and disposed of properly, or (3) be vacuumed from a catchment created by blocking a storm drain inlet. If necessary, divert runoff with temporary berms. Make sure runoff does not reach gutters or storm drains.
- ❑ When breaking up pavement, be sure to pick up all the pieces and **dispose of properly.** Recycle large chunks of broken concrete. See www.reducewaste.org for info on recyclers.
- ❑ **Never bury** waste material. Dispose of small amounts of excess dry concrete, grout, and mortar in the trash.
- ❑ Never dispose of **washout** into the street, storm drains, drainage ditches, or streams.

Small Business Hazardous Waste Disposal Prgm
Businesses that generate less than 27 gallons or 220 pounds of hazardous waste per month are eligible to use this program.
Call 408-299-7300 for a quote.

CITY OF CUPERTINO

Santa Clara Valley Urban Runoff Pollution Prevention Program

UPDATED SEPTEMBER 2016

APPROVED BY: [signature]
TIMM BORDEN, RCE 45512
DIRECTOR OF PUBLIC WORKS
9/1/16
DATE

CONSTRUCTION BEST MANAGEMENT PRACTICES

CITY OF CUPERTINO
DEPARTMENT OF PUBLIC WORKS

SHEET: OF SHEETS
FILE:

MIG
800 HEARST AVENUE
BERKELEY, CA 94710
TEL (510) 845-7549
www.migcom.com

Date:	02-21-2023
Scale:	AS SHOWN
Designed:	CA
Drawn:	JH
Checked:	PK
Proj. Engr:	
File:	C20211516

△	REVISIONS	DESIGN BY	DESIGN DATE	CITY APPR.	APPR. DATE

IMPROVEMENT PLANS FOR
ALL-INCLUSIVE PLAYGROUND AT JOLLYMAN PARK
CUPERTINO CALIFORNIA

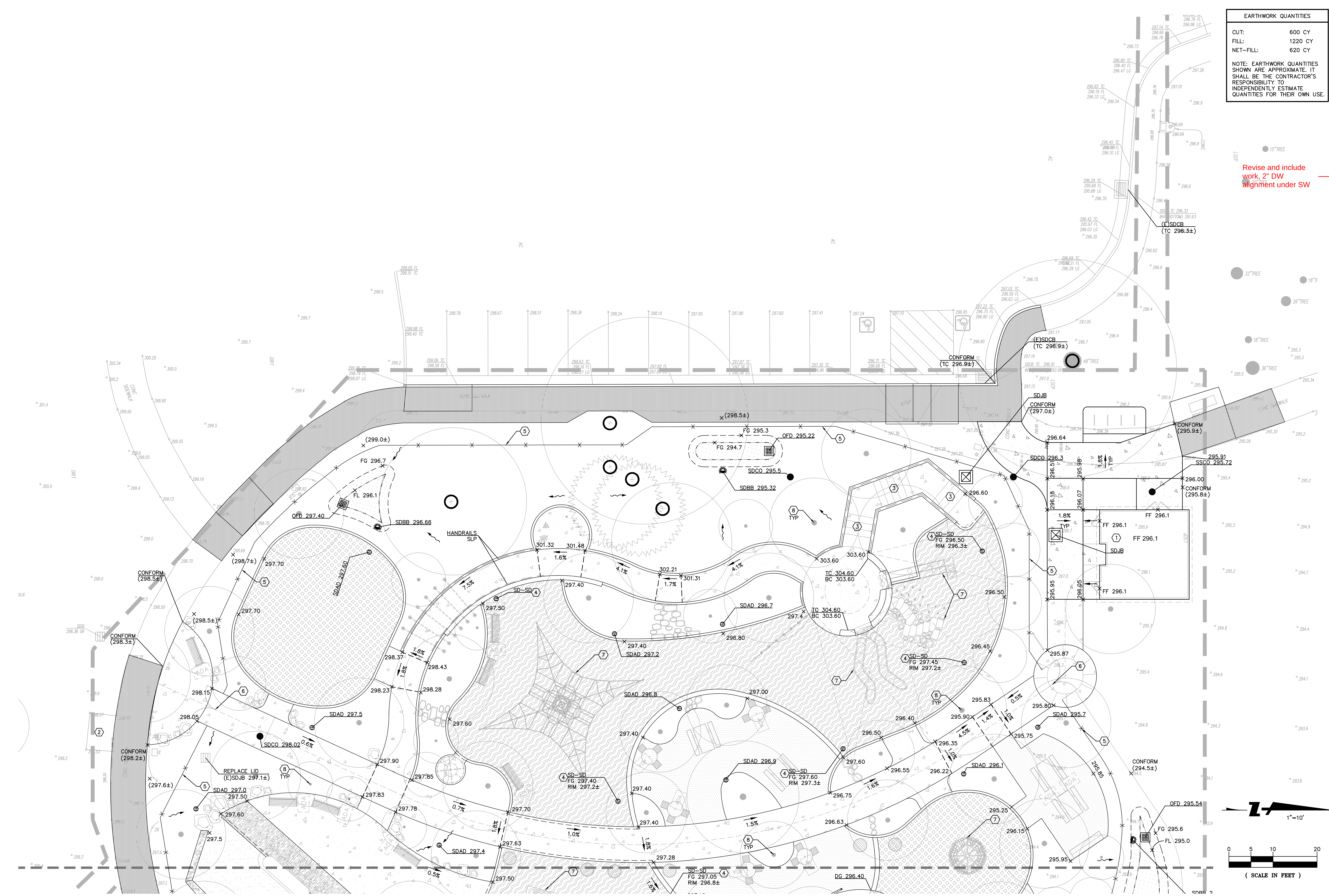
FOR CITY OF CUPERTINO USE
PROJECT # __________
PUBLIC WORKS INSPECTOR:
VOICE MAIL:

CITY OF CUPERTINO
C2.20
BEST MANAGEMENT PRACTICES
SHEET

FEBRUARY 2023

\\BKF-SJ\VOL4\2021\211516_CUPERTINO_JOLLYMAN_PARK_PLAYGROUND\ENG\ENGINEERING\SHEETS\02_BMP.DWG

ALL-INCLUSIVE PLAYGROUND AT JOLLYMAN PARK / 50% CD / NOT FOR CONSTRUCTION / 02-21-2023



MATCHLINE, SEE SHEET 8

EARTHWORK QUANTITIES	
CUT:	600 CY
FILL:	1220 CY
NET-FILL:	620 CY

NOTE: EARTHWORK QUANTITIES SHOWN ARE APPROXIMATE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO INDEPENDENTLY ESTIMATE QUANTITIES FOR THEIR OWN USE.

LEGEND

- BOUNDARY LINE
- EASEMENT LINE
- LIMIT OF WORK
- METAL FENCE S.L.D.
- SYNTHETIC TURF SAFETY SURFACING S.L.D.
- PEDESTRIAN CONCRETE PAVING S.L.D.
- DECOMPOSED GRANITE PAVING S.L.D.
- POURED IN PLACE SAFETY SURFACING S.L.D.
- SAND S.L.D.
- CONCRETE WALKWAY PER SEPARATE PERMIT
- BIORETENTION BASIN
- TREE TO BE PRESERVED, COORDINATE WITH LANDSCAPE ARCHITECT AND OWNER
- ADA COMPANION SEATING S.L.D.
- PICNIC TABLES S.L.D.
- BENCHES S.L.D.
- ELEVATION (PROPOSED) — TC XXX.XX / FL XXX.XX
- ELEVATION (EXISTING) — (TC XXX.XX±) / (FL XXX.XX±)
- FINISHED FLOOR ELEVATION — FF XX.XX
- SPOT ELEVATION (PROPOSED) — × 100.00
- SPOT ELEVATION (EXISTING) — × (100.00±)
- GRADE BREAK
- OVERLAND RELEASE
- SLOPE TO GRADE (LANDSCAPE)
- SLOPE TO GRADE (HARDSCAPE) — X.X%

NOTES

1. PREFABRICATED RESTROOM BUILDING.
2. DRINKING FOUNTAIN, S.L.D.
3. STAIRWAY, S.L.D.
4. SUBSURFACE DRAIN, SEE MATERIALS PLAN FOR SURFACE MATERIAL. SUBSURFACE DRAIN TO BE PLACED AS SHOWN IN DETAIL 5 SHEET C6.00
5. PLAYGROUND FENCE, S.L.D.
6. PLAYGROUND GATE, S.L.D.
7. PLAY STRUCTURE, S.L.D.
8. PROPOSED TREE, S.L.D.

NOTES

1. DISTANCES BETWEEN BIORETENTION AREAS AND HARDSCAPE ARE SHOWN ON THESE PLANS. ALL BIORETENTION AREAS MUST BE 2' MINIMUM AWAY FROM ALL HARDSCAPE.
2. COORDINATE THE PLACEMENT OF ALL SLEEVES FOR LANDSCAPE IRRIGATION AND SITE LIGHTING PRIOR TO PLACEMENT OF ANY FLATWORK. SEE SITE LANDSCAPING DRAWINGS.
3. ACCESSIBLE PATH OF TRAVEL SHALL BE PROVIDED ON ALL WALKWAYS, TO PUBLIC SIDEWALK AND ACCESSIBLE PARKING.
   - ACCESSIBLE PATH SLOPE REQUIREMENTS: 5% MAXIMUM LONGITUDINAL SLOPE, 2% MAXIMUM CROSS-SLOPE.
4. FOR GRADING RECOMMENDATIONS CONTRACTOR SHALL REFER TO PROJECT "GEOTECHNICAL EVALUATION JOLLYMAN PARK ALL-INCLUSIVE PLAYGROUND" PREPARED BY NINYO & MOORE GEOTECHNICAL & ENVIRONMENTAL SCIENCES CONSULTANTS DATED FEBRUARY 18, 2022.
5. DO NOT ADJUST GRADES ON THIS PLAN WITHOUT APPROVAL OF THE ENGINEER/ARCHITECT.
6. CONTRACTOR SHALL CONTACT PROJECT'S CIVIL ENGINEER AND PUBLIC WORKS INSPECTOR FOR INSTALLATION AND INSPECTION OF ON-SITE GRADING & DRAINAGE FACILITIES. A LETTER FROM THE CIVIL ENGINEER WILL BE REQUIRED TO CERTIFY THAT GRADING AND DRAINAGE SYSTEMS ARE INSTALLED PER DESIGN PRIOR TO PROJECT ACCEPTANCE.
7. 2"-4" COBBLE STONE ENERGY DISSIPATERS SHALL BE MINIMUM 24"X24" AREA AS DEPICTED PER PLAN AND TO BE PLACES AT CURB CUTS AND AROUND OVERFLOW DRAINS (OFD) AND BUBBLER BOXES (BB).

MIG
800 HEARST AVENUE
BERKELEY, CA 94710
TEL (510) 845-7549
www.migcom.com

Date:	02-21-2023
Scale:	AS SHOWN
Designed:	CA
Drawn:	JH
Checked:	PK
Proj. Engr:	
File:	C20211516

REVISIONS	DESIGN BY	DESIGN DATE	CITY APPR.	APPR. DATE

IMPROVEMENT PLANS FOR

ALL-INCLUSIVE PLAYGROUND AT JOLLYMAN PARK

CUPERTINO CALIFORNIA

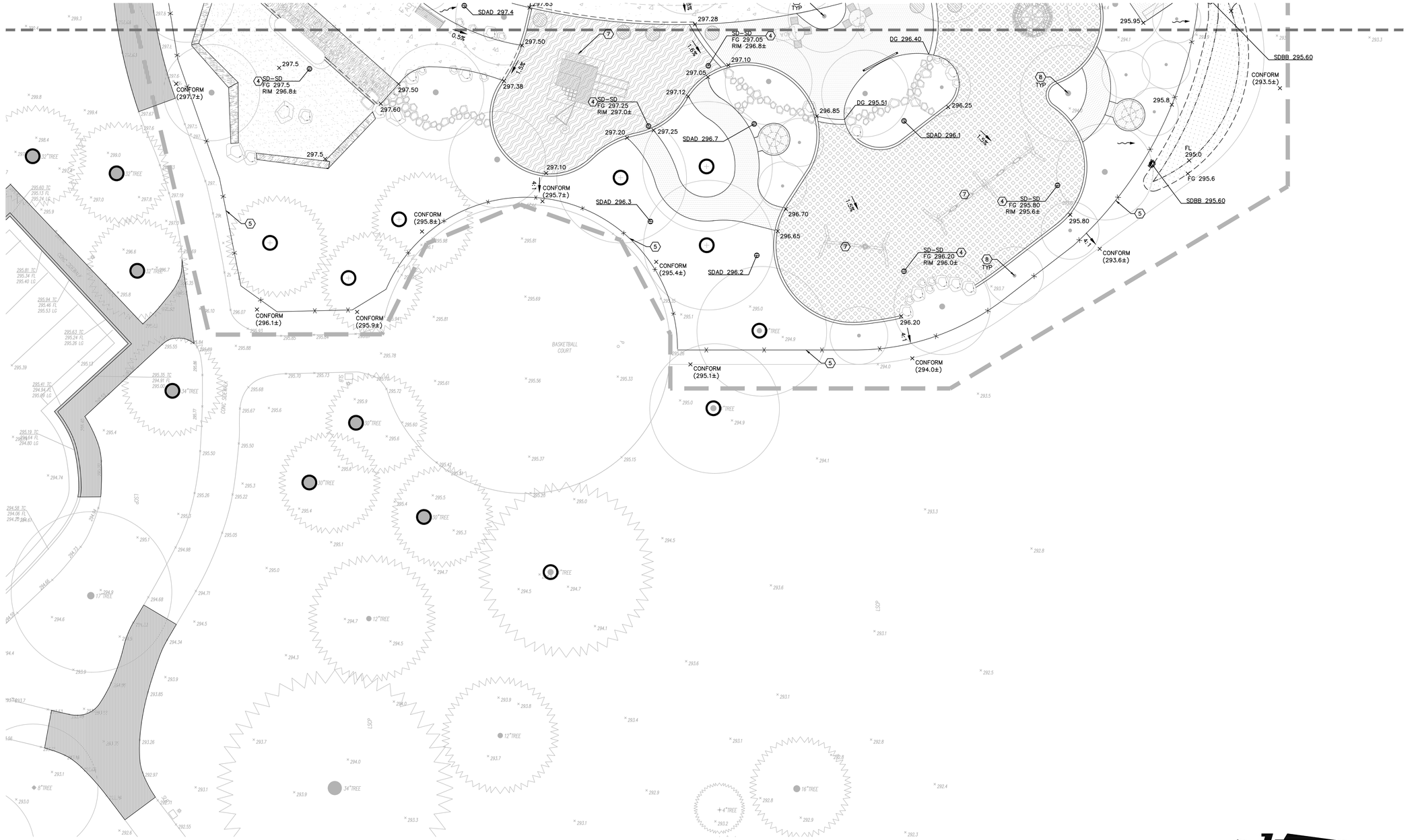
FOR CITY OF CUPERTINO USE
PROJECT # ____________
PUBLIC WORKS INSPECTOR:
VOICE MAIL:

CITY OF CUPERTINO

C3.10
GRADING AND DRAINAGE PLAN - WEST

SHEET

MATCHLINE, SEE SHEET 7



1"=10'

0 5 10 20

(SCALE IN FEET)

LEGEND

- BOUNDARY LINE
- EASEMENT LINE
- LIMIT OF WORK
- METAL FENCE S.L.D.
- SYNTHETIC TURF SAFETY SURFACING S.L.D.
- PEDESTRIAN CONCRETE PAVING S.L.D.
- DECOMPOSED GRANITE PAVING S.L.D.
- POURED IN PLACE SAFETY SURFACING S.L.D.
- SAND S.L.D
- CONCRETE WALKWAY PER SEPARATE PERMIT
- BIORETENTION BASIN
- TREE TO BE PRESERVED, COORDINATE WITH LANDSCAPE ARCHITECT AND OWNER
- ADA COMPANION SEATING S.L.D.
- PICNIC TABLES S.L.D.
- BENCHES S.L.D.
- ELEVATION (PROPOSED) — TC XXX.XX / FL XXX.XX
- ELEVATION (EXISTING) — (TC XXX.XX±) / (FL XXX.XX±)
- FINISHED FLOOR ELEVATION — FF XX.XX
- SPOT ELEVATION (PROPOSED) — ×100.00
- SPOT ELEVATION (EXISTING) — ×(100.00±)
- GRADE BREAK
- OVERLAND RELEASE
- SLOPE TO GRADE (LANDSCAPE)
- SLOPE TO GRADE (HARDSCAPE) — X.X%

NOTES

1. PREFABRICATED RESTROOM BUILDING.
2. DRINKING FOUNTAIN, S.L.D.
3. STAIRWAY, S.L.D.
4. SUBSURFACE DRAIN, SEE MATERIALS PLAN FOR SURFACE MATERIAL. SUBSURFACE DRAIN TO BE PLACED AS SHOWN IN DETAIL 5 SHEET C6.00
5. PLAYGROUND FENCE, S.L.D.
6. PLAYGROUND GATE, S.L.D.
7. PLAY STRUCTURE, S.L.D.
8. PROPOSED TREE, S.L.D.

NOTES

1. DISTANCES BETWEEN BIORETENTION AREAS AND HARDSCAPE ARE SHOWN ON THESE PLANS. ALL BIORETENTION AREAS MUST BE 2' MINIMUM AWAY FROM ALL HARDSCAPE.
2. COORDINATE THE PLACEMENT OF ALL SLEEVES FOR LANDSCAPE IRRIGATION AND SITE LIGHTING PRIOR TO PLACEMENT OF ANY FLATWORK. SEE SITE LANDSCAPING DRAWINGS.
3. ACCESSIBLE PATH OF TRAVEL SHALL BE PROVIDED ON ALL WALKWAYS, TO PUBLIC SIDEWALK AND ACCESSIBLE PARKING.
   – ACCESSIBLE PATH SLOPE REQUIREMENTS: 5% MAXIMUM LONGITUDINAL SLOPE, 2% MAXIMUM CROSS–SLOPE.
4. FOR GRADING RECOMMENDATIONS CONTRACTOR SHALL REFER TO PROJECT "GEOTECHNICAL EVALUATION JOLLYMAN PARK ALL–INCLUSIVE PLAYGROUND" PREPARED BY NINYO & MOORE GEOTECHNICAL & ENVIRONMENTAL SCIENCES CONSULTANTS DATED FEBRUARY 18, 2022.
5. DO NOT ADJUST GRADES ON THIS PLAN WITHOUT APPROVAL OF THE ENGINEER/ARCHITECT.
6. CONTRACTOR SHALL CONTACT PROJECT'S CIVIL ENGINEER AND PUBLIC WORKS INSPECTOR FOR INSTALLATION AND INSPECTION OF ON–SITE GRADING & DRAINAGE FACILITIES. A LETTER FROM THE CIVIL ENGINEER WILL BE REQUIRED TO CERTIFY THAT GRADING AND DRAINAGE SYSTEMS ARE INSTALLED PER DESIGN PRIOR TO PROJECT ACCEPTANCE.
7. 2"–4" COBBLE STONE ENERGY DISSIPATERS SHALL BE MINIMUM 24"X24" AREA AS DEPICTED PER PLAN AND TO BE PLACES AT CURB CUTS AND AROUND OVERFLOW DRAINS (OFD) AND BUBBLER BOXES (BB).

MIG
800 HEARST AVENUE
BERKELEY, CA 94710
TEL (510) 845-7549
www.migcom.com

Date:	02-21-2023
Scale:	AS SHOWN
Designed:	CA
Drawn:	JH
Checked:	PK
Proj. Engr:	
File:	C20211516

REVISIONS	DESIGN BY	DESIGN DATE	CITY APPR.	APPR. DATE

IMPROVEMENT PLANS FOR

ALL-INCLUSIVE PLAYGROUND AT JOLLYMAN PARK

CUPERTINO CALIFORNIA

FOR CITY OF CUPERTINO USE
PROJECT # _____

PUBLIC WORKS INSPECTOR:

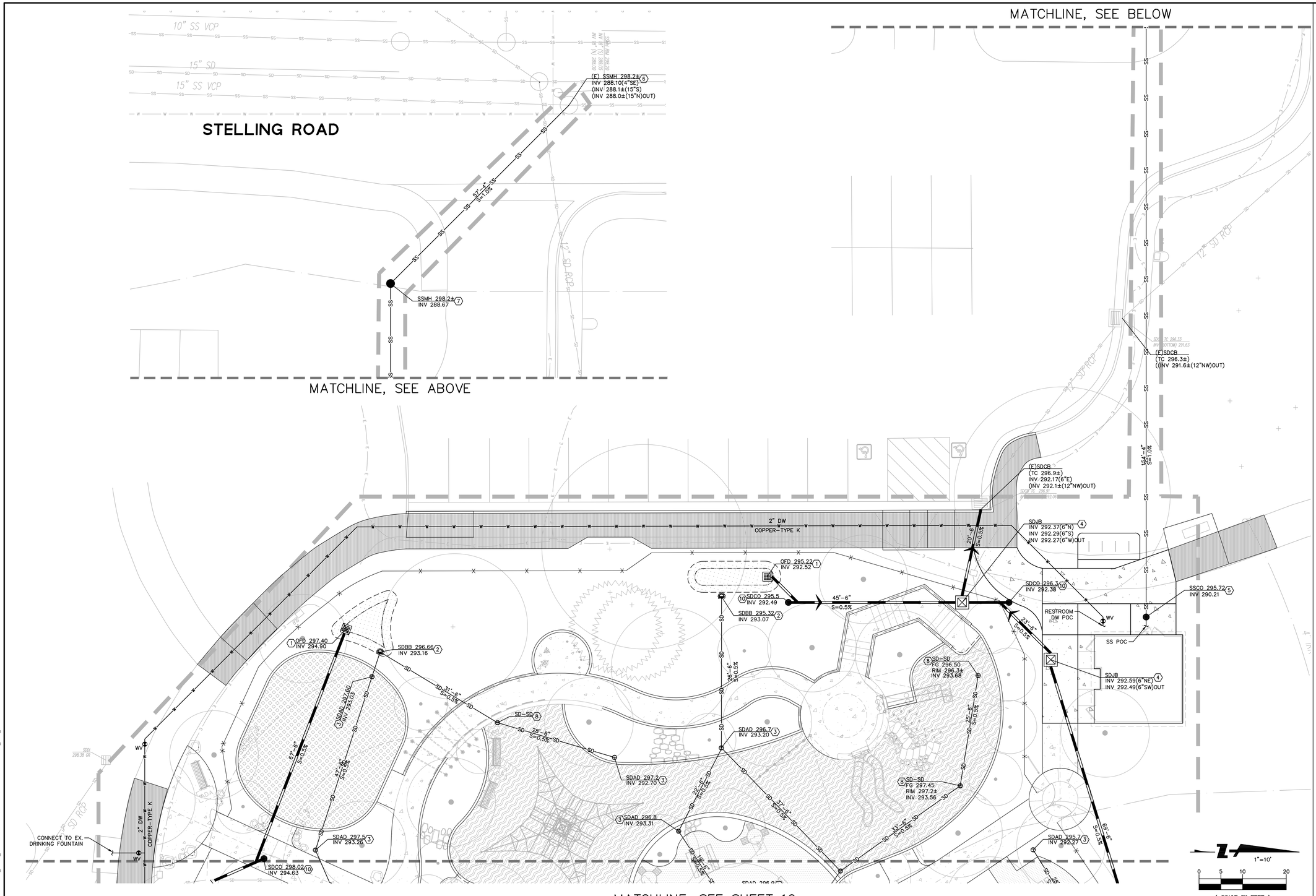
VOICE MAIL:

CITY OF CUPERTINO

C3.11
GRADING AND DRAINAGE PLAN - EAST

SHEET

FEBRUARY 2023



MATCHLINE, SEE SHEET 10

LEGEND

BOUNDARY LINE	
LOT LINE	
EASEMENT LINE	
LIMIT OF WORK	
BIORETENTION BASIN	
DOMESTIC WATER LINE	W
ELECTRIC LINE	E
SANITARY SEWER LINE	XX"-X" S=X.X% SS
STORM DRAIN (DIRECTION)	SD
STORM DRAIN (PERFORATED)	XX"-X" S=X.X%
STORM DRAIN (TREATED)	XX"-X" S=X.X%
STORM DRAIN (UNTREATED)	XX"-X" S=X.X% SD
STORM DRAIN AREA DRAIN	SDAD
STORM DRAIN BUBBLER BOX	SDBB
STORM DRAIN CLEANOUT	SDCO
STORM DRAIN CATCH BASIN	SDCB
STORM DRAIN DROP INLET	SDDI
STORM DRAIN JUNCTION BOX	SDJB
STORM DRAIN MANHOLE	SDMH
STORM DRAIN OVERFLOW DRAIN	OFD
SANITARY SEWER CLEANOUT	SSCO
SANITARY SEWER MANHOLE	SSMH
WATER VALVE	WV

KEYNOTE

1. INSTALL OVERFLOW DRAIN PER DETAIL 7, SHEET C6.00
2. INSTALL STORM DRAIN BUBBLE UP PER DETAIL 4, SHEET C6.00
3. INSTALL STORM DRAIN AREA DRAIN PER DETAIL 3, SHEET C6.00
4. INSTALL STORM DRAIN JUNCTION BOX PER DETAIL 5, SHEET C6.00
5. INSTALL SANITARY SEWER CLEANOUT PER DETAIL 2, SHEET C6.00
6. CONNECT TO EXISTING SANITARY SEWER MANHOLE
7. INSTALL SANITARY SEWER MANHOLE PER CSD STDS 2, 3, AND 4, SHEET C6.01
8. INSTALL SUBSURFACE DRAIN PER DETAIL 5, SHEET C.6.00. SEE MATERIALS PLAN FOR SURFACE MATERIAL.
9. INSTALL 2" BACKFLOW PREVENTER
10. INSTALL STORM DRAIN CLEANOUT PER DETAIL 2, SHEET C6.00

NOTES

1. SEE LANDSCAPE DRAWINGS FOR IRRIGATION AND PLANTING INFORMATION.
2. GRAVITY FLOW SYSTEMS, CONTRACTOR SHALL VERIFY (POTHOLE IF NECESSARY) SIZE, MATERIAL, LOCATION AND DEPTH OF ALL SYSTEMS THAT ARE TO BE CONNECTED TO OR CROSSED PRIOR TO THE TRENCHING OR INSTALLATION OF ANY GRAVITY FLOW SYSTEM.
3. COMPLETE SYSTEM: ALL UTILITY SYSTEMS ARE DELINEATED IN A SCHEMATIC MANNER ON THESE PLANS. CONTRACTOR IS TO PROVIDE ALL FITTINGS, ACCESSORIES, AND WORK NECESSARY TO COMPLETE THE UTILITY SYSTEM SO THAT IT IS FULLY FUNCTIONING FOR THE PURPOSE INTENDED.
4. ALL UTILITY TRENCHING AND BACKFILLING MUST CONFORM TO CITY OF CUPERTINO STANDARD DETAILS AND SPECIFICATIONS AND GEOTECHNICAL REPORT PREPARED BY NINYO & MOORE GEOTECHNICAL & ENVIRONMENTAL SCIENCES CONSULTANTS, DATED FEBRUARY 18, 2022.
5. CONTRACTOR SHALL MAINTAIN 12" VERTICAL CLEARANCE ABOVE OR BELOW EXISTING AND NEW UTILITY CROSSING
6. HORIZONTAL DIMENSIONS ARE TAKEN FROM CENTER OF PIPE TO CENTER OF PIPE.
7. ALL STORM DRAIN INLETS SHALL BE CLEARLY MARKED WITH "NO DUMPING – FLOWS TO CREEK" OR EQUIVALENT, AS APPROVED BY THE DIRECTOR OF PUBLIC WORKS.
8. SANITARY SEWER AND STORM DRAIN SHALL BE CONSTRUCTED FROM THE DOWNSTREAM UP.
9. THE CONTRACTOR PERFORMING WORK ON THE DISTRICT OWNED SANITARY SEWERS SHALL BE REQUIRED TO REGISTER WITH THE DISTRICT AND PROVIDE INSURANCE AS SPECIFIED IN SECTION 1.39 AND 1.40 OF THE DISTRICTS STANDARD SPECIFICATIONS.
10. CONTRACTOR SHALL CONTACT PROJECTS CIVIL ENGINEER AND PUBLIC WORKS INSPECTOR FOR INSTALLATION AND INSPECTION OF ON-SITE GRADING & DRAINAGE FACILITIES. A LETTER FROM THE CIVIL ENGINEER WILL BE REQUIRED TO CERTIFY THAT GRADING AND DRAINAGE SYSTEMS ARE INSTALLED PER DESIGN PRIOR TO PROJECT ACCEPTANCE.

MIG
800 HEARST AVENUE
BERKELEY, CA 94710
TEL (510) 845-7549
www.migcom.com

Date:	02-21-2023
Scale:	AS SHOWN
Designed:	CA
Drawn:	JH
Checked:	PK
Proj. Engr:	
File:	C20211516

REVISIONS	DESIGN BY	DESIGN DATE	CITY APPR.	APPR. DATE

IMPROVEMENT PLANS FOR

ALL-INCLUSIVE PLAYGROUND AT JOLLYMAN PARK

CUPERTINO CALIFORNIA

FOR CITY OF CUPERTINO USE
PROJECT # _____

PUBLIC WORKS INSPECTOR:

VOICE MAIL:

CITY OF CUPERTINO

C4.10
UTILITY PLAN - WEST

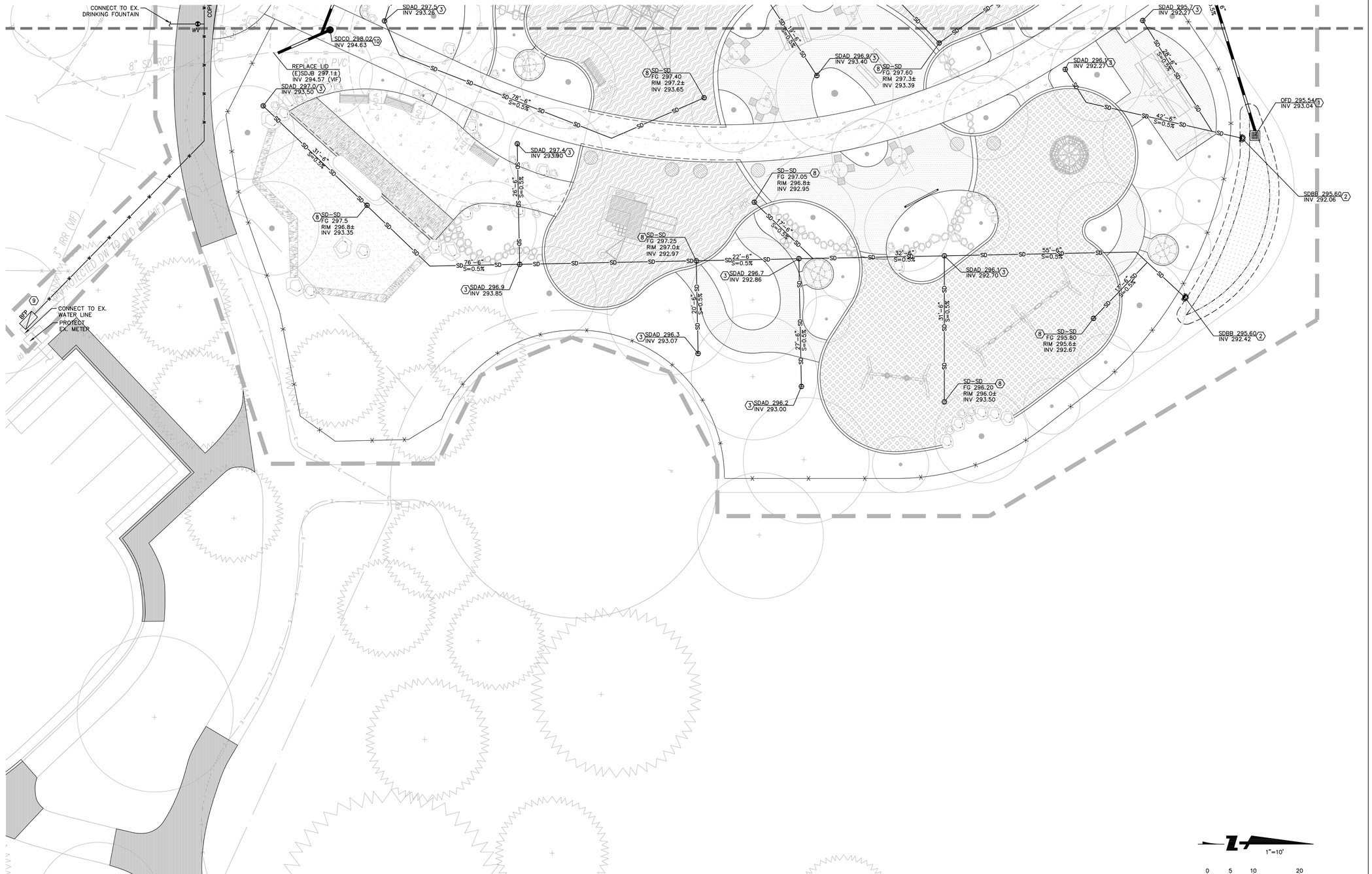
SHEET

ALL-INCLUSIVE PLAYGROUND AT JOLLYMAN PARK / 50% CD / NOT FOR CONSTRUCTION / 02-21-2023

\\BKF-SJVOL4\2021\211516_CUPERTINO_JOLLYMAN_PARK_PLAYGROUND\ENGINEERING\SHEET\SHEET_10.DWG

FEBRUARY 2023

MATCHLINE, SEE SHEET 9



1"=10'

0 5 10 20

(SCALE IN FEET)

LEGEND

BOUNDARY LINE	
LOT LINE	
EASEMENT LINE	
LIMIT OF WORK	
BIORETENTION BASIN	
DOMESTIC WATER LINE	W
ELECTRIC LINE	E
SANITARY SEWER LINE	XX'-X" S=X.X% SS
STORM DRAIN (DIRECTION)	SD
STORM DRAIN (PERFORATED)	XX'-X" S=X.X%
STORM DRAIN (TREATED)	XX'-X" S=X.X%
STORM DRAIN (UNTREATED)	XX'-X" S=X.X% SD
STORM DRAIN AREA DRAIN	SDAD
STORM DRAIN BUBBLER BOX	SDBB
STORM DRAIN CLEANOUT	SDCO
STORM DRAIN CATCH BASIN	SDCB
STORM DRAIN DROP INLET	SDDI
STORM DRAIN JUNCTION BOX	SDJB
STORM DRAIN MANHOLE	SDMH
STORM DRAIN OVERFLOW DRAIN	OFD
SANITARY SEWER CLEANOUT	SSCO
SANITARY SEWER MANHOLE	SSMH
WATER VALVE	WV

KEYNOTE

1. INSTALL OVERFLOW DRAIN PER DETAIL 7, SHEET C6.00
2. INSTALL STORM DRAIN BUBBLE UP PER DETAIL 4, SHEET C6.00
3. INSTALL STORM DRAIN AREA DRAIN PER DETAIL 3, SHEET C6.00
4. INSTALL STORM DRAIN JUNCTION BOX PER DETAIL 5, SHEET C6.00
5. INSTALL SANITARY SEWER CLEANOUT PER DETAIL 2, SHEET C6.00
6. CONNECT TO EXISTING SANITARY SEWER MANHOLE
7. INSTALL SANITARY SEWER MANHOLE PER CSD STDS 2, 3, AND 4, SHEET C6.01
8. INSTALL SUBSURFACE DRAIN PER DETAIL 5, SHEET C.6.00. SEE MATERIALS PLAN FOR SURFACE MATERIAL.
9. INSTALL 2" BACKFLOW PREVENTER
10. INSTALL STORM DRAIN CLEANOUT PER DETAIL 2, SHEET C6.00

NOTES

1. SEE LANDSCAPE DRAWINGS FOR IRRIGATION AND PLANTING INFORMATION.
2. GRAVITY FLOW SYSTEMS, CONTRACTOR SHALL VERIFY (POTHOLE IF NECESSARY) SIZE, MATERIAL, LOCATION AND DEPTH OF ALL SYSTEMS THAT ARE TO BE CONNECTED TO OR CROSSED PRIOR TO THE TRENCHING OR INSTALLATION OF ANY GRAVITY FLOW SYSTEM.
3. COMPLETE SYSTEM: ALL UTILITY SYSTEMS ARE DELINEATED IN A SCHEMATIC MANNER ON THESE PLANS. CONTRACTOR IS TO PROVIDE ALL FITTINGS, ACCESSORIES, AND WORK NECESSARY TO COMPLETE THE UTILITY SYSTEM SO THAT IT IS FULLY FUNCTIONING FOR THE PURPOSE INTENDED.
4. ALL UTILITY TRENCHING AND BACKFILLING MUST CONFORM TO CITY OF CUPERTINO STANDARD DETAILS AND SPECIFICATIONS AND GEOTECHNICAL REPORT PREPARED BY NINYO & MOORE GEOTECHNICAL & ENVIRONMENTAL SCIENCES CONSULTANTS, DATED FEBRUARY 18, 2022.
5. CONTRACTOR SHALL MAINTAIN 12" VERTICAL CLEARANCE ABOVE OR BELOW EXISTING AND NEW UTILITY CROSSING
6. HORIZONTAL DIMENSIONS ARE TAKEN FROM CENTER OF PIPE TO CENTER OF PIPE.
7. ALL STORM DRAIN INLETS SHALL BE CLEARLY MARKED WITH "NO DUMPING -- FLOWS TO CREEK" OR EQUIVALENT, AS APPROVED BY THE DIRECTOR OF PUBLIC WORKS.
8. SANITARY SEWER AND STORM DRAIN SHALL BE CONSTRUCTED FROM THE DOWNSTREAM UP.
9. THE CONTRACTOR PERFORMING WORK ON THE DISTRICT OWNED SANITARY SEWERS SHALL BE REQUIRED TO REGISTER WITH THE DISTRICT AND PROVIDE INSURANCE AS SPECIFIED IN SECTION 1.39 AND 1.40 OF THE DISTRICTS STANDARD SPECIFICATIONS.
10. CONTRACTOR SHALL CONTACT PROJECTS CIVIL ENGINEER AND PUBLIC WORKS INSPECTOR FOR INSTALLATION AND INSPECTION OF ON-SITE GRADING & DRAINAGE FACILITIES. A LETTER FROM THE CIVIL ENGINEER WILL BE REQUIRED TO CERTIFY THAT GRADING AND DRAINAGE SYSTEMS ARE INSTALLED PER DESIGN PRIOR TO PROJECT ACCEPTANCE.

MIG
800 HEARST AVENUE BERKELEY, CA 94710
TEL (510) 845-7549
www.migcom.com

Date:	02-21-2023
Scale:	AS SHOWN
Designed:	CA
Drawn:	JH
Checked:	PK
Proj. Engr:	
File:	C20211516

REVISIONS	DESIGN BY	DESIGN DATE	CITY APPR.	APPR. DATE

IMPROVEMENT PLANS FOR

ALL-INCLUSIVE PLAYGROUND AT JOLLYMAN PARK

CUPERTINO CALIFORNIA

FOR CITY OF CUPERTINO USE
PROJECT # _____

PUBLIC WORKS INSPECTOR:

VOICE MAIL:

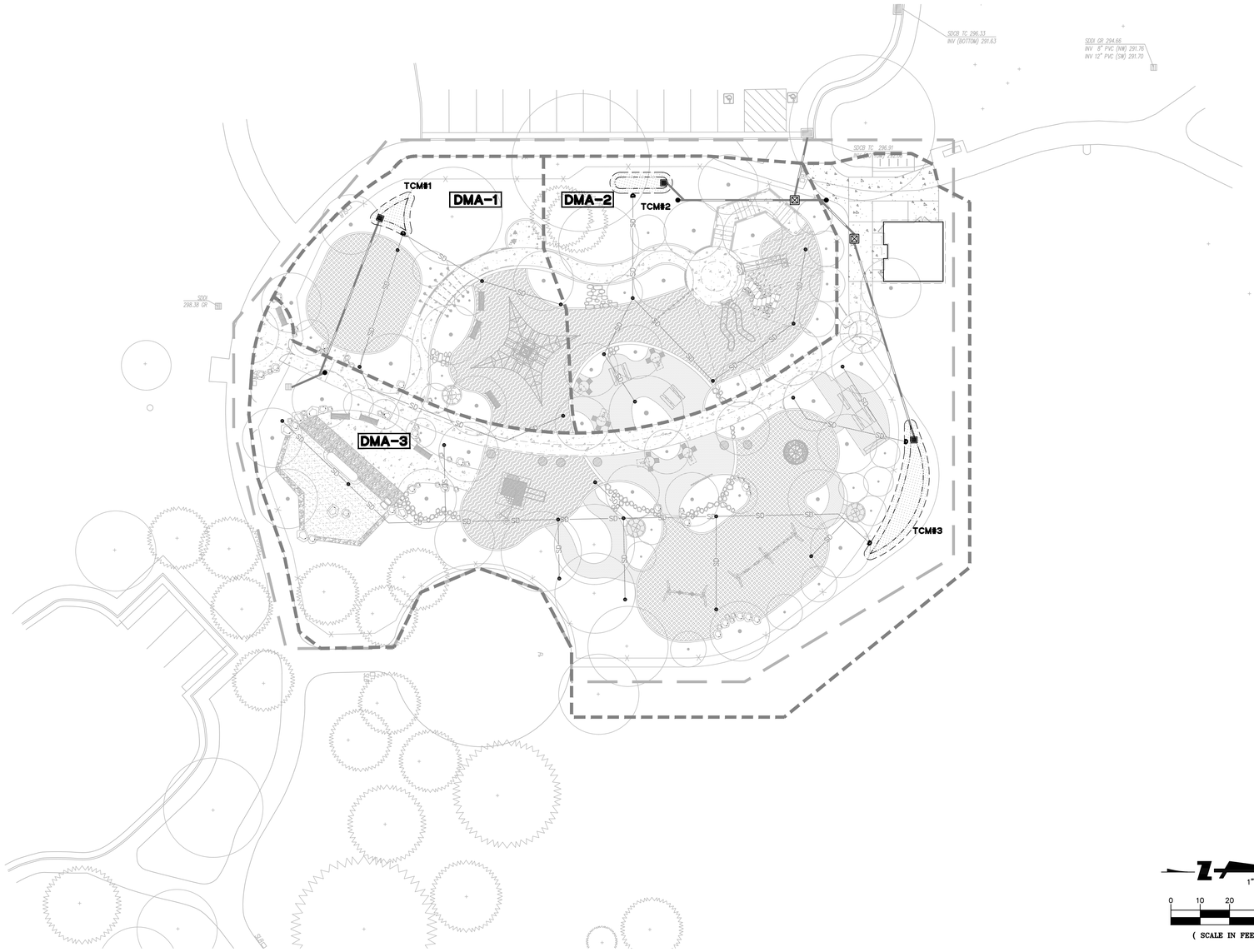
CITY OF CUPERTINO

C4.11
UTILITY PLAN - EAST

SHEET

FEBRUARY 2023

\\BKF-SJ\VOL4\2021\211516_CUPERTINO_JOLLYMAN_PARK_PLAYGROUND\ENG\ENGINEERING\SHEETS\05_JMP_SW.DWG



PROJECT SITE INFORMATION:

1. SOILS TYPE:	STIFF LEAN CLAY
2. GROUND WATER DEPTH:	50 FEET
3. NAME OF RECEIVING BODY:	GUADALUPE
4. FLOOD ZONE:	ZONE D
5. FLOOD ELEVATION:	N/A

SOURCE CONTROL MEASURES:

1. BENEFICIAL LANDSCAPING.
2. USE OF WATER EFFICIENT IRRIGATION SYSTEMS.
3. MAINTENANCE (PAVEMENT SWEEPING, CATCH BASIN CLEANING, GOOD HOUSEKEEPING).

SITE DESIGN MEASURES:

1. PROTECT EXISTING TREES, VEGETATION, AND SOIL.
2. PRESERVE OPEN SPACE AND NATURAL DRAINAGE PATTERNS.
3. DIRECT RUNOFF FROM ROOFS, SIDEWALKS, PATIOS TO LANDSCAPED AREAS.
4. PLANT TREES ADJACENT TO AND IN PARKING AREAS AND ADJACENT TO OTHER IMPERVIOUS AREAS.
5. CREATE NEW PERVIOUS AREAS: LANDSCAPING

BIORETENTION & FLOW-THROUGH PLANTER NOTES:

1. SEE GRADING PLAN FOR BASIN FOOTPRINT AND DESIGN ELEVATIONS.
2. PLACE 3 INCHES OF COMPOSTED, NON-FLOATABLE MULCH IN AREAS BETWEEN STORMWATER PLANTINGS AND SIDE SLOPES.
3. SEE LANDSCAPE PLAN FOR MULCH, PLANT MATERIALS AND IRRIGATION REQUIREMENTS
4. CURB CUTS SHALL BE A MINIMUM 18" WIDE AND SPACED AT MAXIMUM 10' O.C. INTERVALS AND SLOPED TO DIRECT STORMWATER TO DRAIN INTO THE BASIN. CURB CUTS SHALL ALSO NOT BE PLACED INLINE WITH OVERFLOW CATCH BASIN. SEE GRADING PLAN FOR MORE DETAIL ON LOCATIONS OF CURB CUTS.
5. A MINIMUM 0.2' DROP BETWEEN STORM WATER ENTRY POINT (I.E. CURB OPENING, FLUSH CURB, ETC.) AND ADJACENT LANDSCAPE FINISHED GRADE.
6. DO NOT COMPACT NATIVE SOIL / SUBGRADE AT BOTTOM OF BASIN. LOOSEN SOIL TO 12" DEPTH.

LEGEND

BOUNDARY LINE	━━ ━ ━ ━━
LOT LINE	—— – – ——
EASEMENT LINE	— —— —— —
LIMIT OF WORK	▬▬ ▬▬
PCC CONCRETE	▨
GRASS PAVER	▨
PLANTING AREA	▨
DRAINAGE MANAGEMENT AREA	DMA-1
STORM DRAIN (PERFORATED)	– – – ➤ – – –
STORM DRAIN (TREATED)	━━━➤━━━
STORM DRAIN (UNTREATED)	——SD—➤——
STORM DRAIN AREA DRAIN	⊖
STORM DRAIN BUBBLER BOX	✪
STORM DRAIN CATCH BASIN	▦
STORM DRAIN DROP INLET	▦
STORM DRAIN JUNCTION BOX	☒
STORM DRAIN MANHOLE	◉
FLOW DIRECTION (PLANTING AREA)	∿➤
FLOW DIRECTION (PAVEMENT AREA)	←
OVERLAND RELEASE DIRECTION	⇨

BIOTREATMENT SOIL REQUIREMENTS

- BIORETENTION SOIL MIX SHALL MEET THE REQUIREMENTS AS OUTLINED IN APPENDIX C OF THE C.3 STORM WATER HANDBOOK AND SHALL BE A MIXTURE OF FINE SAND AND COMPOST MEASURED ON A VOLUME BASIS OF 60–70% SAND AND 30–40% COMPOST. CONTRACTOR TO REFER TO APPENDIX C FOR SAND AND COMPOST MATERIAL SPECIFICATIONS. CONTRACTOR MAY OBTAIN A COPY OF THE C3 HANDBOOK AT : HTTP: //WWW.SANJOSECA.GOV/INDEX.ASPX?NID=1761
- PRIOR TO ORDERING THE BIOTREATMENT SOIL MIX OR DELIVERY TO THE PROJECT SITE, CONTRACTOR SHALL PROVIDE A BIOTREATMENT SOIL MIX SPECIFICATION CHECKLIST, COMPLETED BY THE SOIL MIX SUPPLIER AND CERTIFIED TESTING LAB.

TABLE 1 **ROUTINE**

MAINTENANCE ACTIVITIES FOR BIORETENTION AREAS

NO.	MAINTENANCE TASK	FREQUENCY OF TASK
1	REMOVE OBSTRUCTIONS, WEEDS, DEBRIS AND TRASH FROM BIORETENTION AREA AND ITS INLETS AND OUTLETS; AND DISPOSE OF PROPERLY.	QUARTERLY, OR AS NEEDED AFTER STORM EVENTS
2	INSPECT BIORETENTION AREA FOR STANDING WATER. IF STANDING WATER DOES NOT DRAIN WITHIN 2-3 DAYS, TILL AND REPLACE THE SURFACE BIOTREATMENT SOIL WITH THE APPROVED SOIL MIX AND REPLANT.	QUARTERLY, OR AS NEEDED AFTER STORM EVENTS
3	CHECK UNDERDRAINS FOR CLOGGING. USE THE CLEANOUT RISER TO CLEAN ANY CLOGGED UNDERDRAINS.	QUARTERLY, OR AS NEEDED AFTER STORM EVENTS
4	MAINTAIN THE IRRIGATION SYSTEM AND ENSURE THAT PLANTS ARE RECEIVING THE CORRECT AMOUNT OF WATER (IF APPLICABLE).	QUARTERLY
5	ENSURE THAT THE VEGETATION IS HEALTHY AND DENSE ENOUGH TO PROVIDE FILTERING AND PROTECT SOILS FROM EROSION. PRUNE AND WEED THE BIORETENTION AREA. REMOVE AND/OR REPLACE ANY DEAD PLANTS.	ANNUALLY, BEFORE THE WET SEASON BEGINS
6	USE COMPOST AND OTHER NATURAL SOIL AMENDMENTS AND FERTILIZERS INSTEAD OF SYNTHETIC FERTILIZERS, ESPECIALLY IF THE SYSTEM USES AN UNDERDRAIN.	ANNUALLY, BEFORE THE WET SEASON BEGINS
7	CHECK THAT MULCH IS AT APPROPRIATE DEPTH (2 - 3 INCHES PER SOIL SPECIFICATIONS) AND REPLENISH AS NECESSARY BEFORE WET SEASON BEGINS. IT IS RECOMMENDED THAT 2" – 3" OF ARBOR MULCH BE REAPPLIED EVERY YEAR.	ANNUALLY, BEFORE THE WET SEASON BEGINS
8	INSPECT THE ENERGY DISSIPATION AT THE INLET TO ENSURE IT IS FUNCTIONING ADEQUATELY, AND THAT THERE IS NO SCOUR OF THE SURFACE MULCH. REMOVE ACCUMULATED SEDIMENT.	ANNUALLY, BEFORE THE WET SEASON BEGINS
9	INSPECT OVERFLOW PIPE TO ENSURE THAT IT CAN SAFELY CONVEY EXCESS FLOWS TO A STORM DRAIN. REPAIR OR REPLACE DAMAGED PIPING.	ANNUALLY, BEFORE THE WET SEASON BEGINS
10	REPLACE BIOTREATMENT SOIL AND MULCH, IF NEEDED. CHECK FOR STANDING WATER, STRUCTURAL FAILURE AND CLOGGED OVERFLOWS. REMOVE TRASH AND DEBRIS. REPLACE DEAD PLANTS.	
11	INSPECT BIORETENTION AREA USING THE ATTACHED INSPECTION CHECKLIST.	ANNUALLY, BEFORE THE WET SEASON

STANDARD STORMWATER CONTROL NOTES:

- STANDING WATER SHALL NOT REMAIN IN THE TREATMENT MEASURES FOR MORE THAN FIVE DAYS, TO PREVENT MOSQUITO GENERATION. SHOULD ANY MOSQUITO ISSUES ARISE, CONTACT THE SANTA CLARA VALLEY VECTOR CONTROL DISTRICT (DISTRICT). MOSQUITO LARVICIDES SHALL BE APPLIED ONLY WHEN ABSOLUTELY NECESSARY, AS INDICATED BY THE DISTRICT, AND THEN ONLY BY A LICENSED PROFESSIONAL OR CONTRACTOR. CONTACT INFORMATION FOR THE DISTRICT IS PROVIDED BELOW.
- DO NOT USE PESTICIDES OR OTHER CHEMICAL APPLICATIONS TO TREAT DISEASED PLANTS, CONTROL WEEDS OR REMOVED UNWANTED GROWTH. EMPLOY NON-CHEMICAL CONTROLS (BIOLOGICAL, PHYSICAL AND CULTURAL CONTROLS) TO TREAT A PEST PROBLEM. PRUNE PLANTS PROPERLY AND AT THE APPROPRIATE TIME OF YEAR. PROVIDE ADEQUATE IRRIGATION FOR LANDSCAPE PLANTS. DO NOT OVER WATER.

TREATMENT CONTROL MEASURE SUMMARY TABLE

DMA #	TCM #	Location	Treatment Type	LID or Non-LID	Sizing Method	Drainage Area (s.f.)	Impervious Area (s.f.)	Pervious Area (Permeable Pavement) (s.f.)	Pervious Area (Other) (s.f.)	% Onsite Area Treated by LID or Non-LID TCM	Bioretention Area Required (s.f.)	Bioretention Area Provided (s.f.)	Comments
1	1	Onsite	Bioretention lined* w/ underdrain	LID	2C. Flow: 4% Method **	6,592	3,306	N/A	3,286	19.15%	132	132	
2	2	Onsite	Bioretention lined* w/ underdrain	LID	2C. Flow: 4% Method **	7,529	3,768	N/A	3,761	21.82%	151	173	
3	3	Onsite	Bioretention lined* w/ underdrain	LID	2C. Flow: 4% Method **	23,911	10,193	N/A	13,719	59.03%	408	413	
					Totals:	**38,032**	**17,267**	N/A	**20,766**	100.00%	691	718	

Footnotes:

* "Lined" refers to an impermeable liner placed on the bottom of a Bioretention basin or a concrete Flow-Through Planter, such that no infiltration into native soil occurs.

** Sizing for Bioretention Area Required calculated using the 4% Method (Impervious Area x 0.04)

*** Per Chapter 2.3 of the C3 Stormwater Handbook Roadway projects that add new sidewalk along an existing roadway are exempt from Provision C.3.c of the Municipal Stormwater Permit.

MIG
800 HEARST AVENUE
BERKELEY, CA 94710
TEL (510) 845-7549
www.migcom.com

Date:	02-21-2023
Scale:	AS SHOWN
Designed:	CA
Drawn:	JH
Checked:	PK
Proj. Engr:	
File:	C20211516

△	REVISIONS	DESIGN BY	DESIGN DATE	CITY APPR.	APPR. DATE

IMPROVEMENT PLANS FOR

ALL-INCLUSIVE PLAYGROUND AT JOLLYMAN PARK

CUPERTINO CALIFORNIA

FOR CITY OF CUPERTINO USE
PROJECT # ___________

PUBLIC WORKS INSPECTOR:

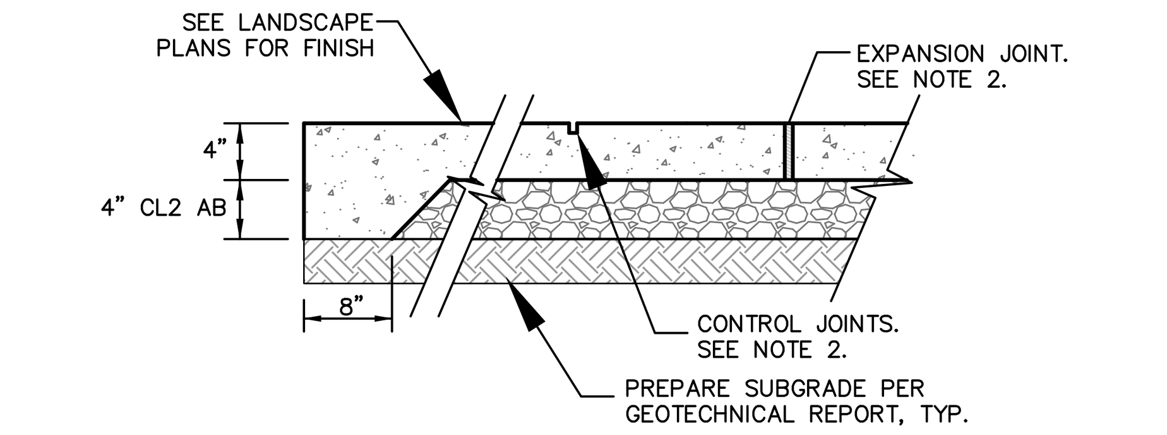
VOICE MAIL:

CITY OF CUPERTINO

C5.10
STORMWATER MANAGEMENT PLAN

SHEET

FEBRUARY 2023

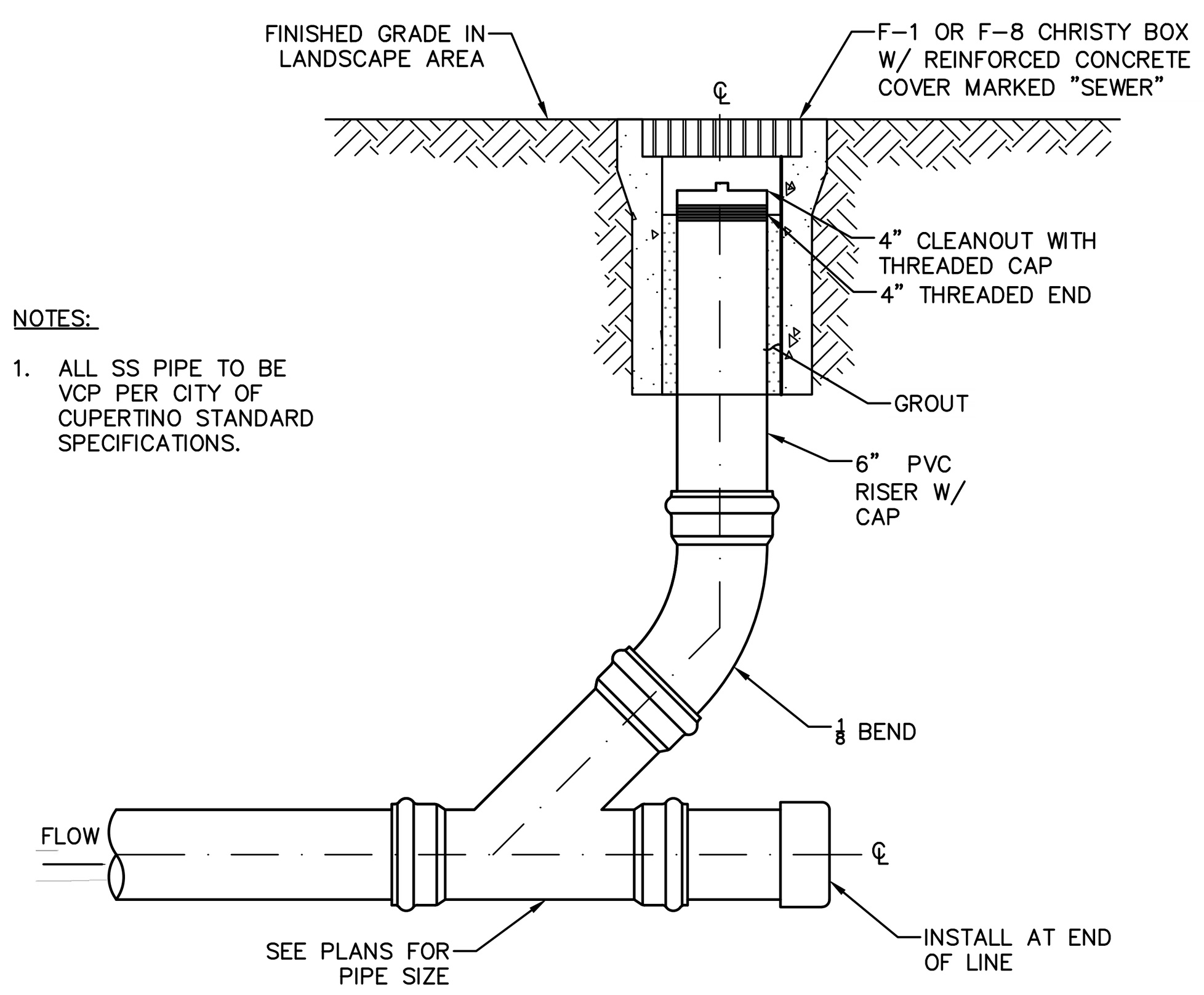


NOTES:

1. TYPE OF CONCRETE: TYPE A
2. SEE LANDSCAPE PLANS FOR EXPANSION AND CONTROL JOINTS
3. CLASS 2 AGGREGATE BASE SHALL BE COMPACTED TO MINIMUM 95% RELATIVE COMPACTION.

1 - CONCRETE SECTION (PEDESTRIAN)

NTS

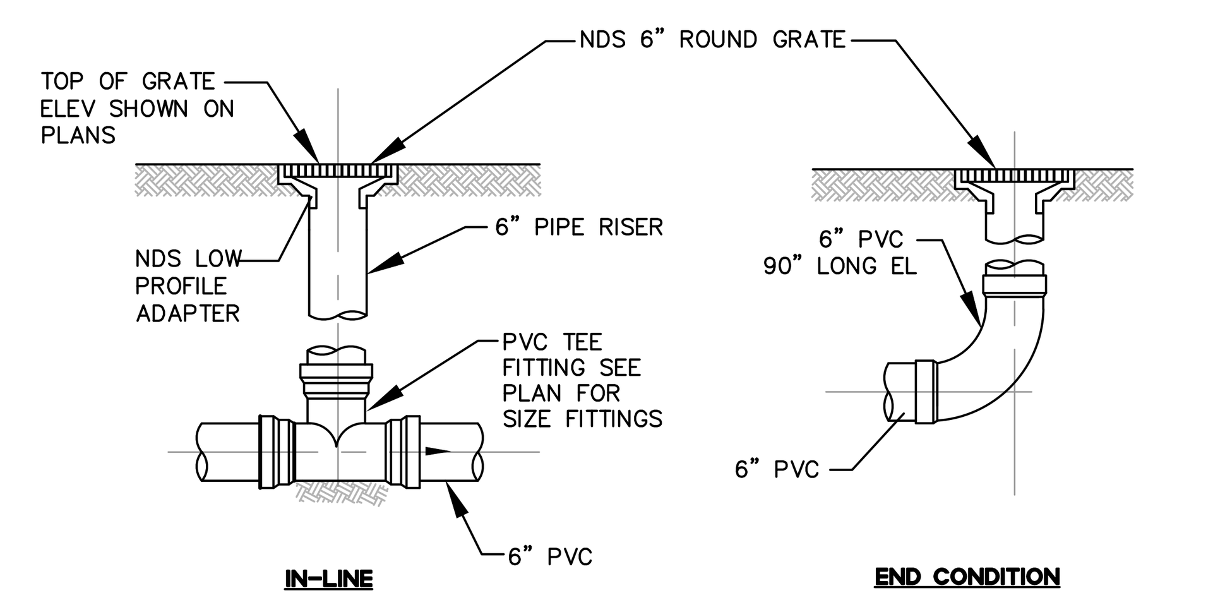


NOTES:

1. ALL SS PIPE TO BE VCP PER CITY OF CUPERTINO STANDARD SPECIFICATIONS.

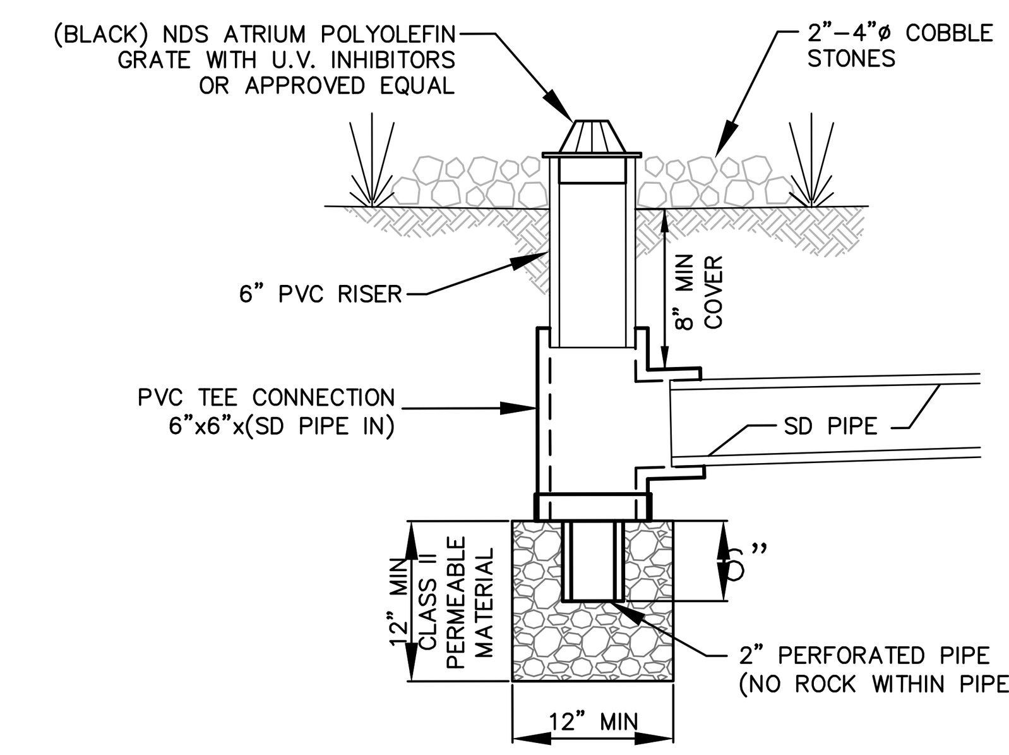
2 - SANITARY SEWER CLEANOUT

NTS



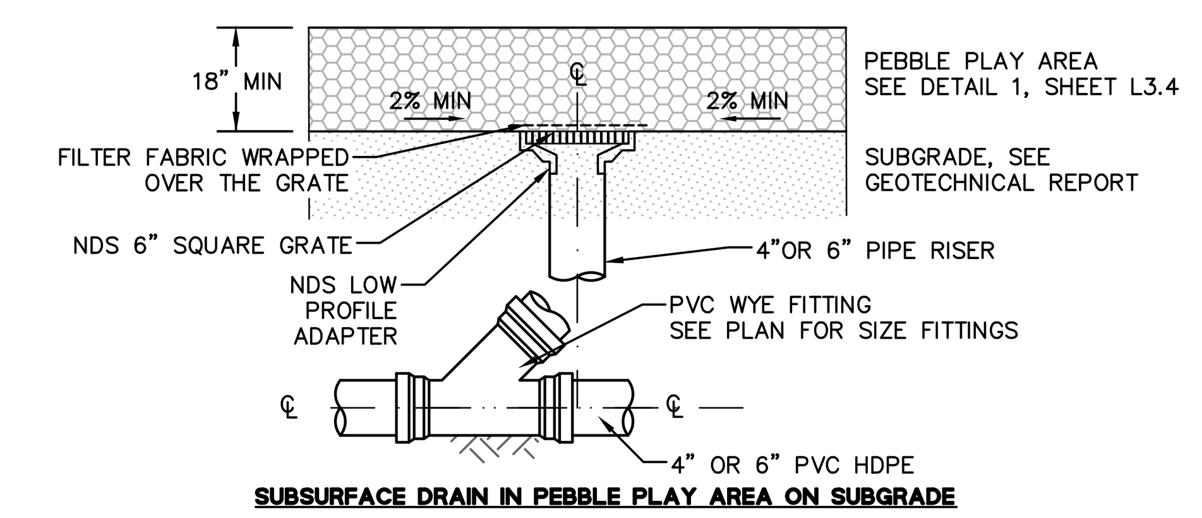
3 - AREA DRAIN

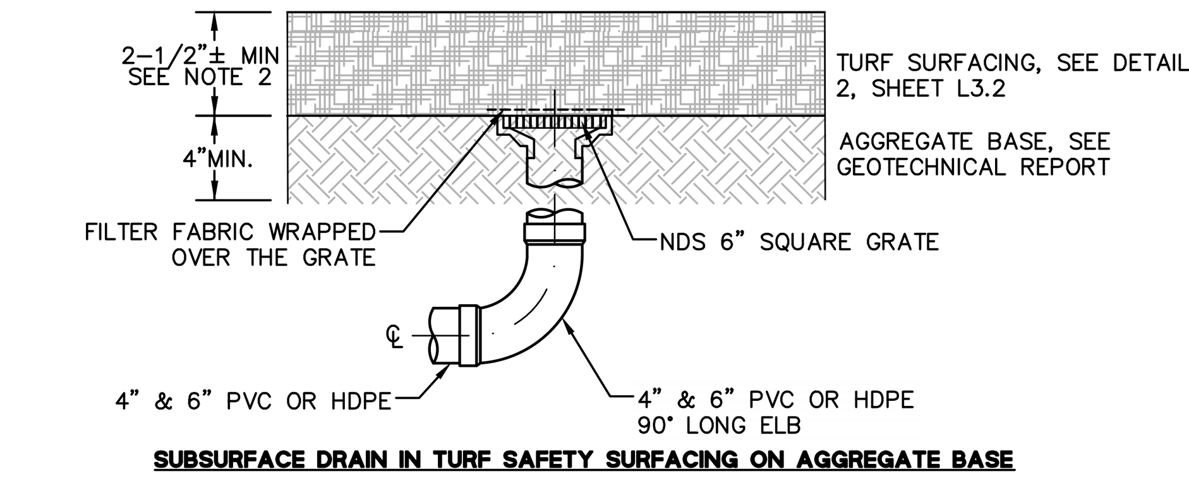
NTS



4 - BUBBLER ASSEMBLY

NTS



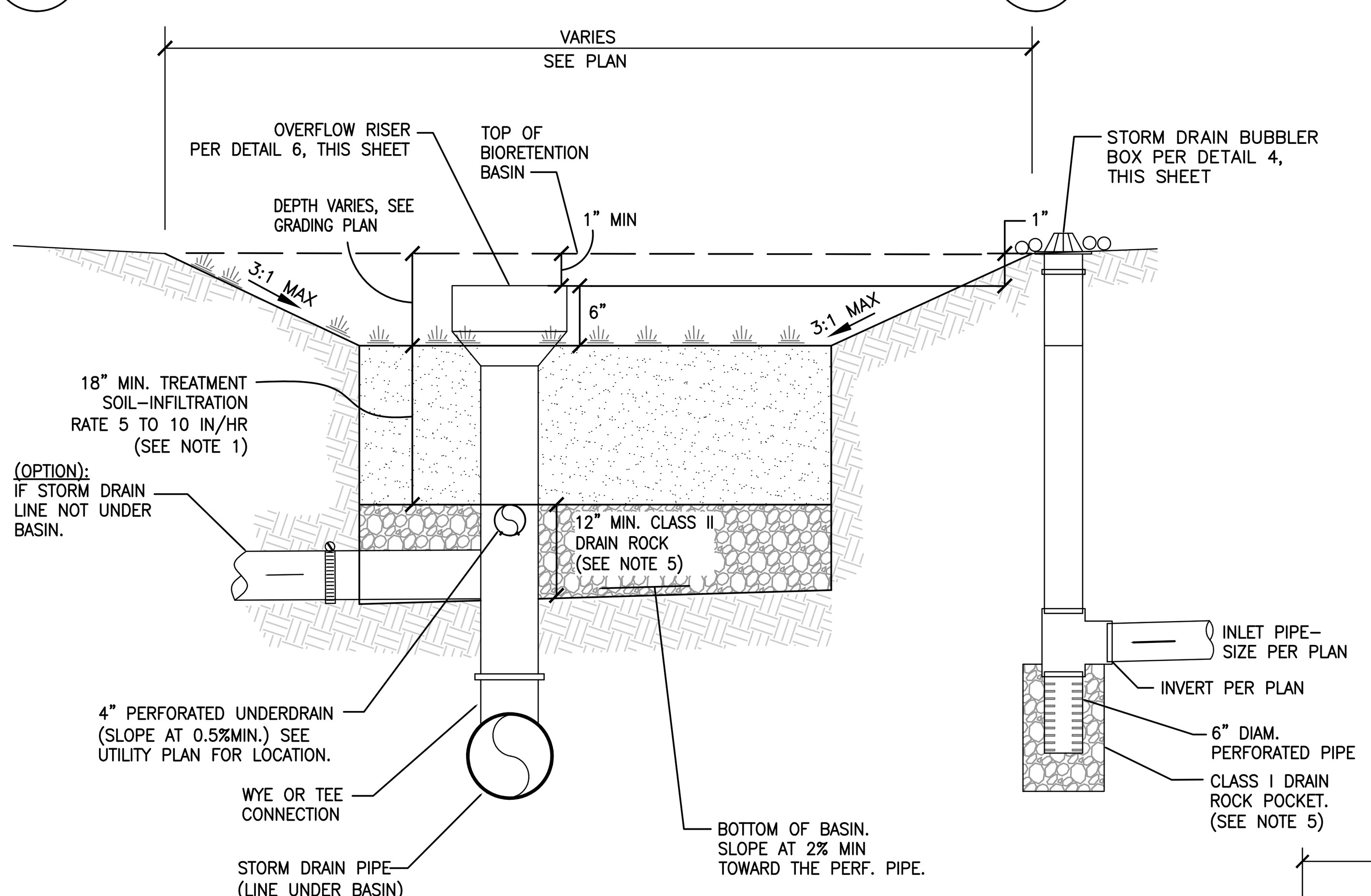


NOTES:

1. SEE NDS DRAINAGE PRODUCTS CATALOG FOR INSTALLATION.
2. TOTAL DEPTH OF SAFETY SURFACING VARIES BASED OFF OF SITE LOCATION AND MUST BE DETERMINED BY MANUFACTURER FOR EACH PLAY AREA. CONTRACTOR TO CONFORM WITH MANUFACTURER.

5 - SUBSURFACE DRAIN WITH SQUARE GRATE

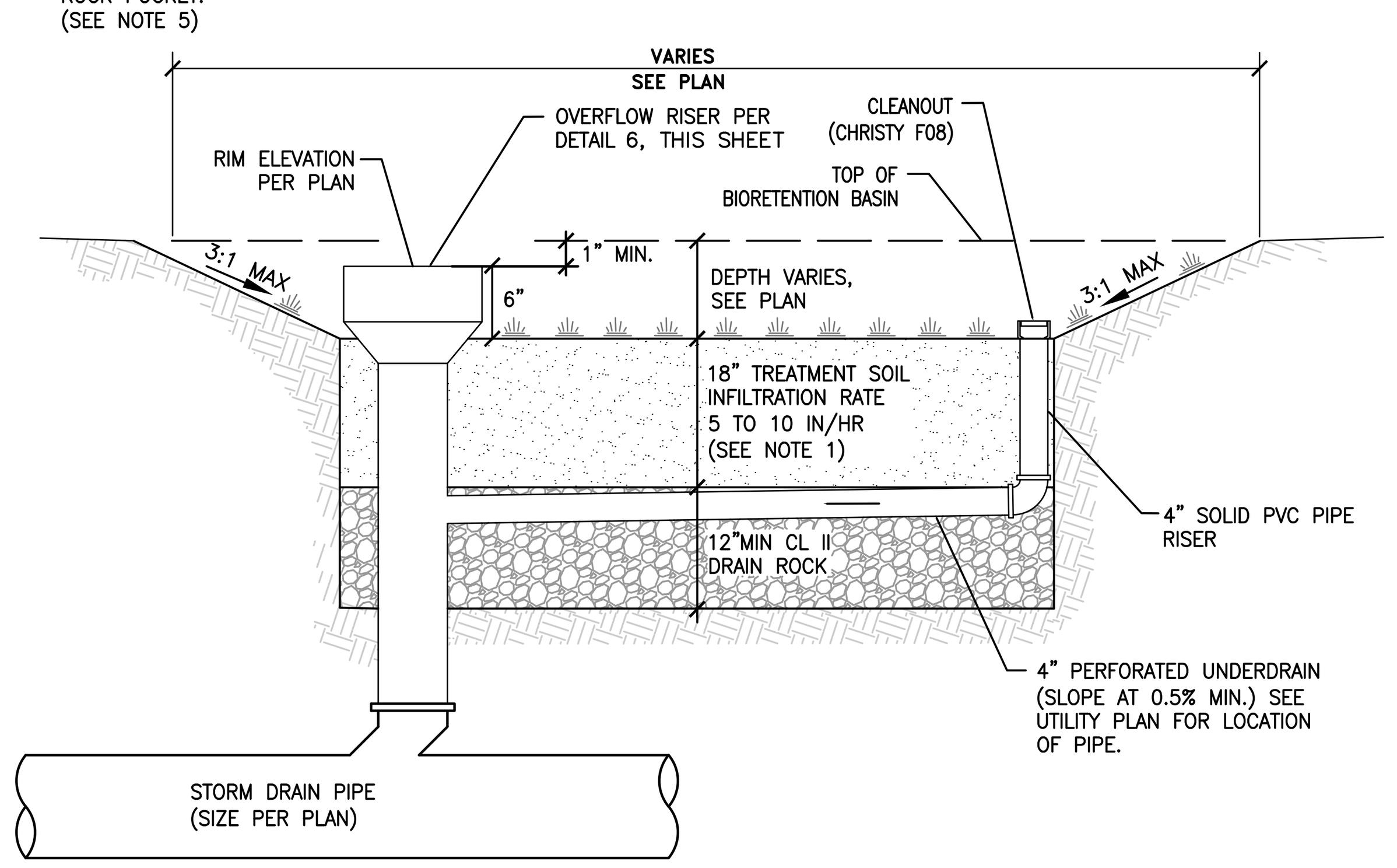
NTS



TRANSVERSE SECTION

NOTES:

1. TREATMENT SOIL MIX SHALL MEET REQUIREMENTS AS SPECIFIED IN THE CONTRA COSTA CLEAN WATER PROGRAM (CCCWP) STORMWATER C.3 GUIDEBOOK DATED 2017 IN APPENDIX B.
2. BACKFILL BIORETENTION ONLY WITH PERMEABLE PLANTING MATERIAL AND DRAIN ROCK AS SPECIFIED IN THIS DETAIL. ABSOLUTELY NO NATIVE MATERIAL SHALL BE USED FOR BACKFILL. CONTRACTOR MUST COORDINATE WITH CIVIL ENGINEER PRIOR TO CONSTRUCTION.
3. CONTACT THE CITY'S URBAN RUNOFF COORDINATOR FOR INSPECTION DURING INSTALLATION OF BIOTREATMENT SOIL, OF THE TREE POD SYSTEM, AND FINAL LANDSCAPING. RESULT FROM A PERCOLATION RATE SHALL BE GREATER THAN 5.0 IN/HR AND LESS THAN 10.0 IN/HR.
4. A MINIMUM 2-FOOT LEVEL CLEARANCE (MAX 2%) SHALL BE PROVIDE BETWEEN THE TOP OF BASIN AND WALKWAYS/PUBLIC SIDEWALKS.
5. DRAIN ROCK TO BE CLASS 2 PERMEABLE MATERIAL PER CALTRANS STANDARD SPECIFICATIONS, SECTION 68-1.025. THE MATERIAL SHALL BE WASHED AND FREE FROM CLAY OR ORGANIC MATERIAL.
6. PERFORATED PIPE SHALL BE SOLVENT WELD PVC SDR 35 (OR APPROVED EQUAL) WITH PERFORATIONS FACED DOWN. LOCATION OF THE PIPE VARIES, SEE PLAN.
7. FOR ANY HORIZONTAL LINER PENETRATIONS, RADIAL-CUT THE LINER FOR PIPE. MASTIC AND SEAL WITH PIPE CLAMP TO INSURE WATER-TIGHT SEAL.

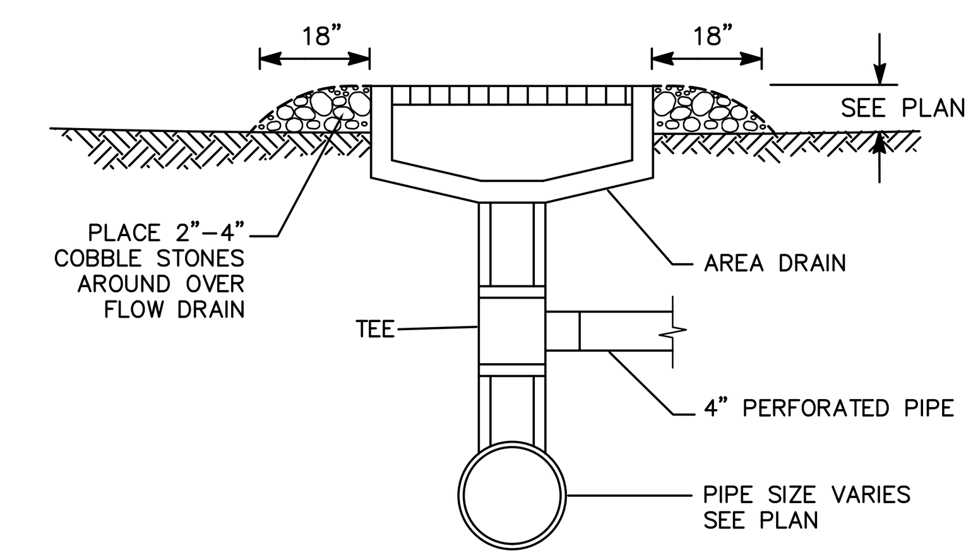


LONGITUDINAL SECTION

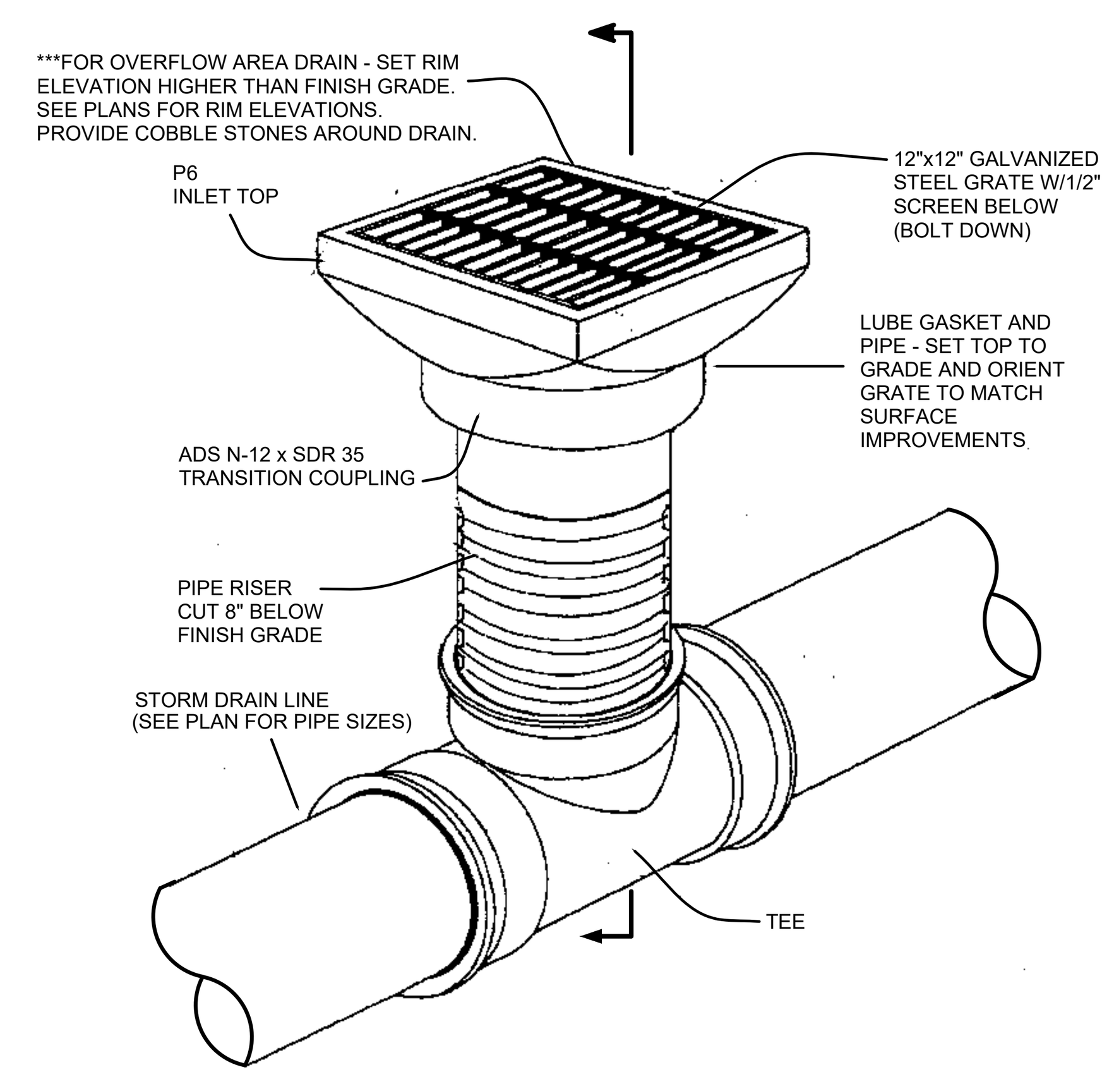
N.T.S.

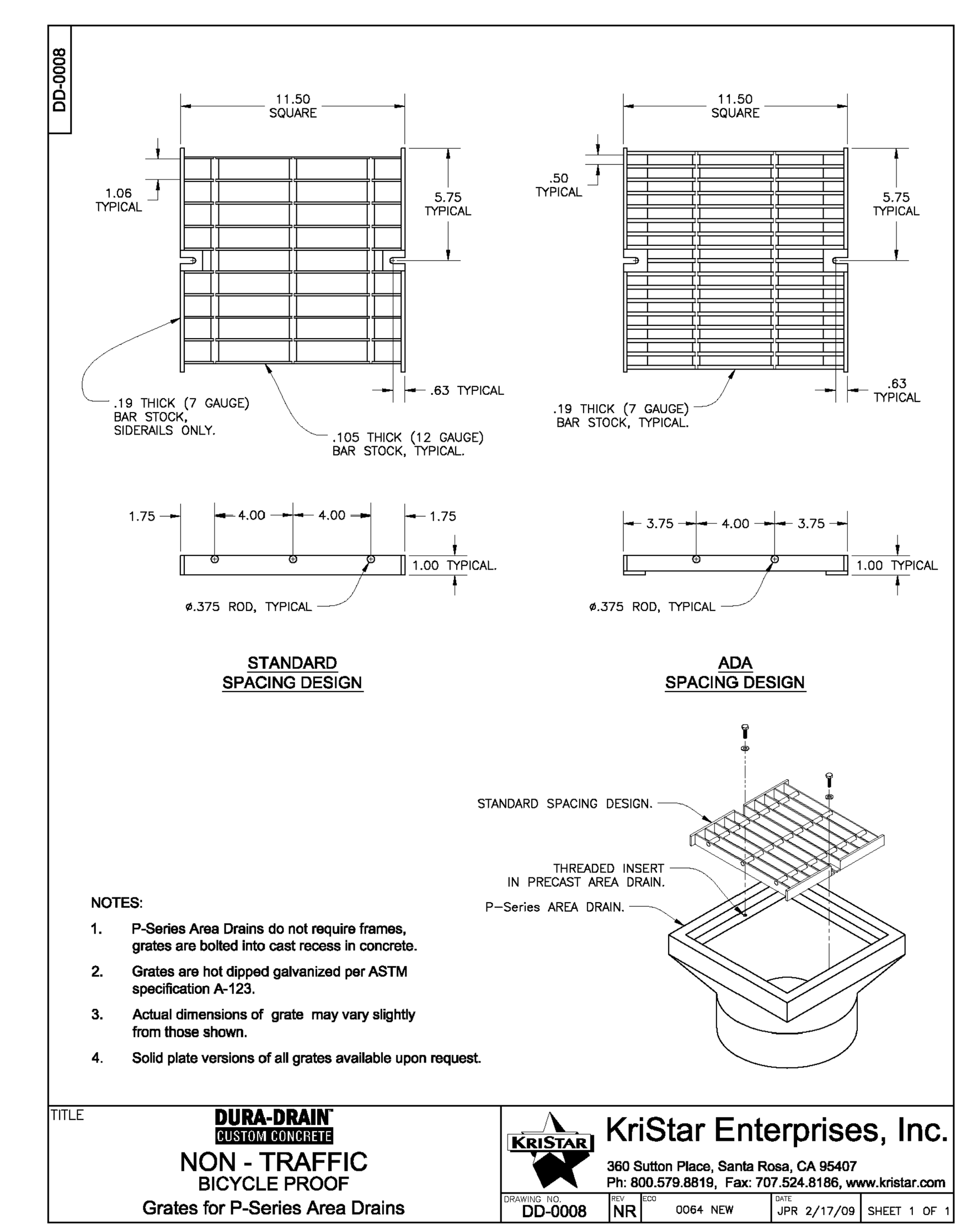
6 - BIORETENTION BASIN

NTS



SECTION A-A





7 - OVERFLOW DRAIN RISER AT BIORETENTION BASIN

NTS

MIG
800 HEARST AVENUE
BERKELEY, CA 94710
TEL (510) 845-7549
www.migcom.com

Date:	02-21-2023
Scale:	AS SHOWN
Designed:	CA
Drawn:	JH
Checked:	PK
Proj. Engr:	
File:	C20211516

REVISIONS	DESIGN BY	DESIGN DATE	CITY APPR.	APPR. DATE

IMPROVEMENT PLANS FOR

ALL-INCLUSIVE PLAYGROUND AT JOLLYMAN PARK

CUPERTINO CALIFORNIA

FOR CITY OF CUPERTINO USE
PROJECT # ________

PUBLIC WORKS INSPECTOR:

VOICE MAIL:

CITY OF CUPERTINO

C6.00
CONSTRUCTION DETAILS

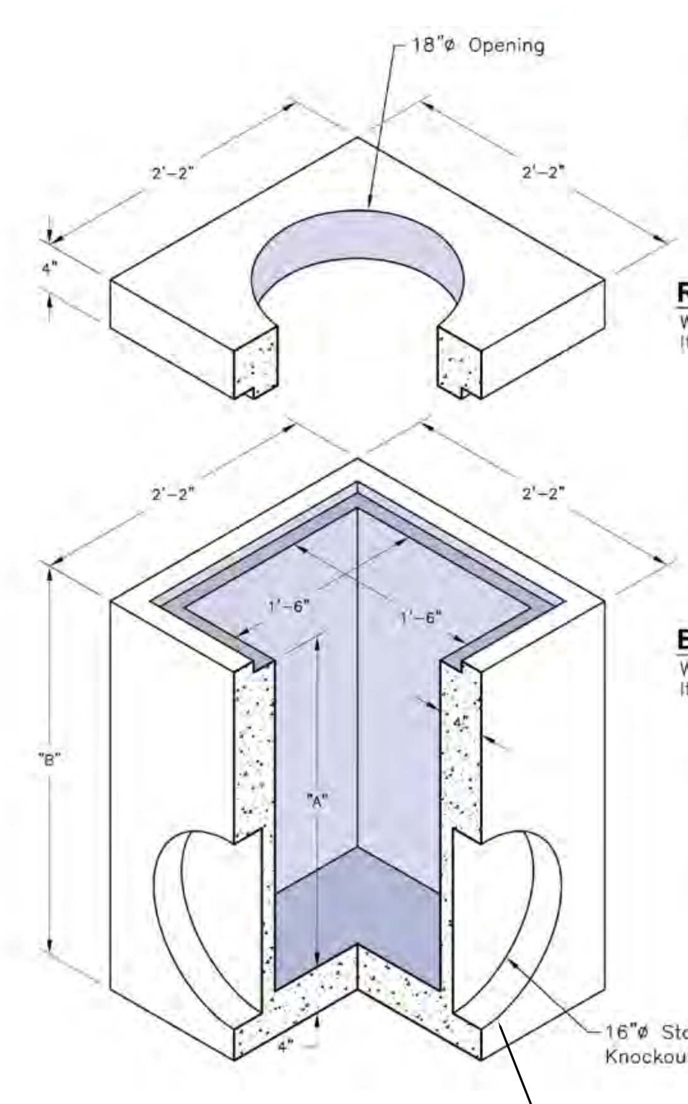
SHEET

FEBRUARY 2023

ALL-INCLUSIVE PLAYGROUND AT JOLLYMAN PARK / 50% CD / NOT FOR CONSTRUCTION / 02-21-2023

Oldcastle Precast — Water

1'-6"x1'-6" I.D. Junction Box
Model: JB-1818



GENERAL NOTES:
1. Different Height of Extensions and Bodies are Available by Request.
2. Frames and Covers Also Available.
3. Frames may be Cast in Extension or Body.

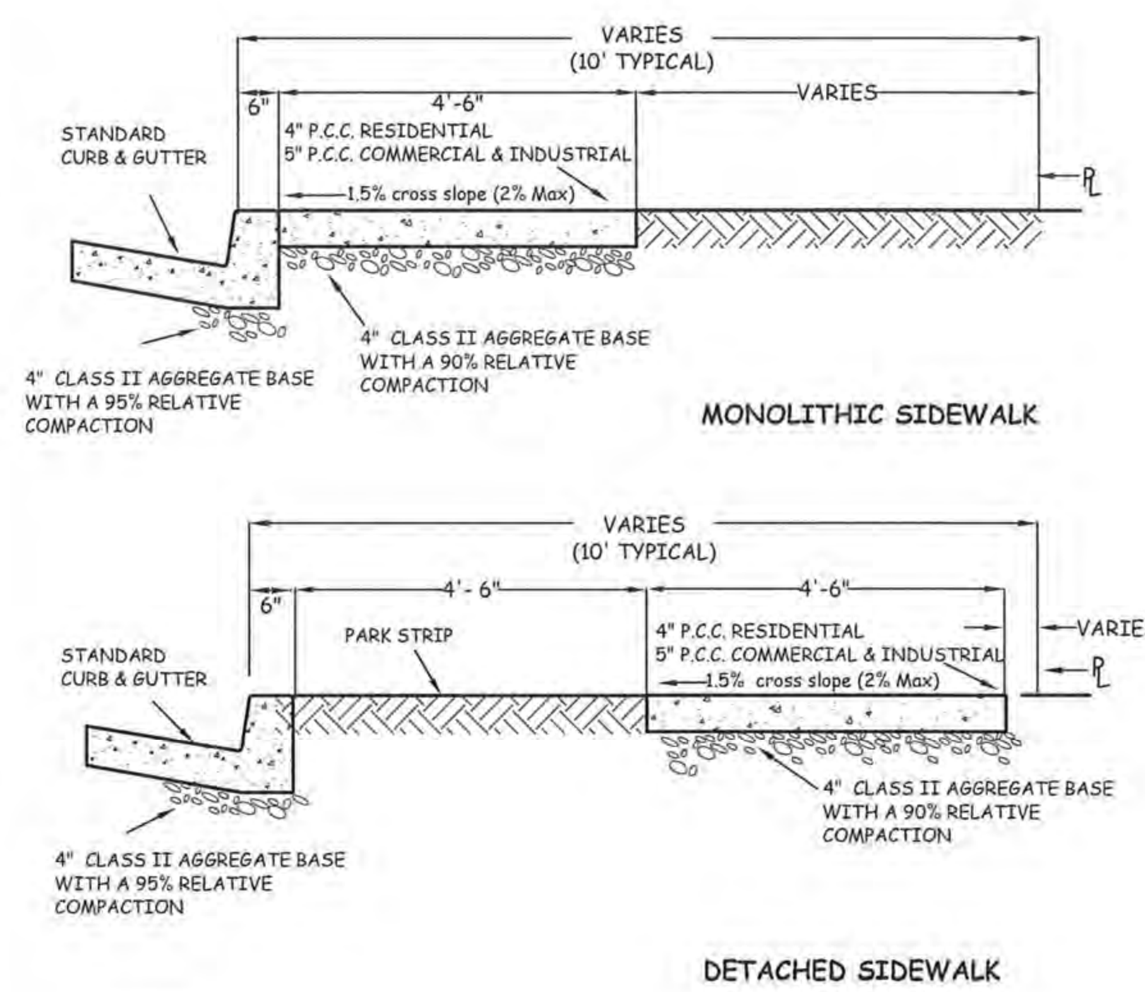
Roof Slab
Weight – 225 Lbs.
Item# – 1207700

SPECIFICATIONS:
1. Concrete has a design strength of 5000 PSI at 28 days.
2. Steel reinforcement: ASTM A-615 Grade 60 or ASTM A-497 Welded wire fabric.
3. Loading: Designed for H20 Loading.
4. C.I. Castings: ASTM A-48, Class 30/35.

Body
Weight – See Table
Item# – See Table

Body			
A	B	Weight	Item#
12"	16"	600 Lbs.	1201440
18"	22"	775 Lbs.	1201480
24"	28"	975 Lbs.	1201520
30"	34"	1150 Lbs.	1201580
36"	40"	1325 Lbs.	1201660

1 – **JUNCTION BOX**
NTS



NOTES:

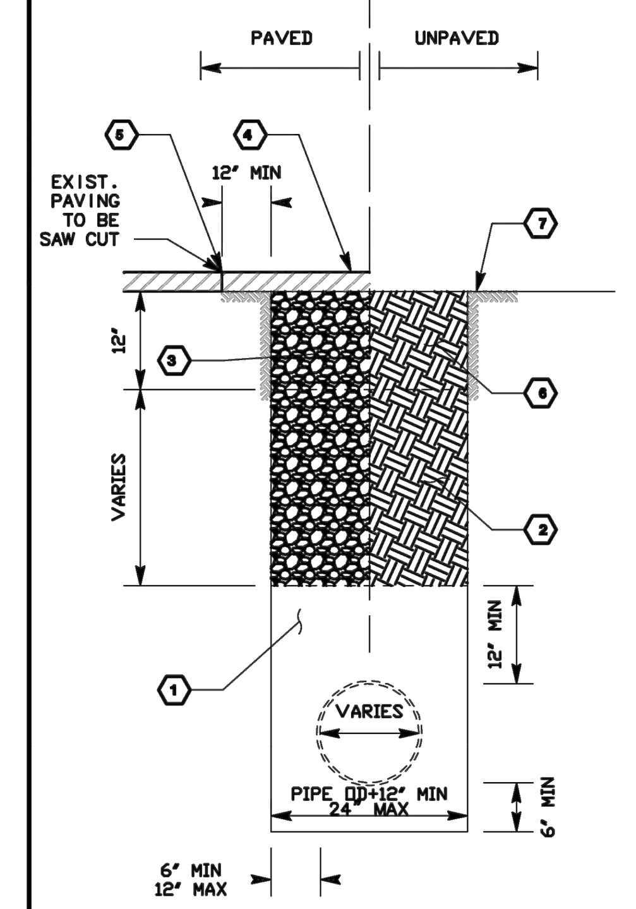
1. Cross slope shall be 1.5% (in no case shall cross slope exceed 2%)
2. Driveway concrete thickness: Residential - 5". Commercial and Industrial - 6" w/ #4 rebar 18" O.C. both ways.
3. One pound of dispersing black shall be mixed with each cubic yard of concrete at the batch plant.
4. Sidewalks, curbs and gutters shall be Class "A" (6 sacks per cubic yard) as per Standard Specification and shall attain a strength 3,000 p.s.i. in 28 days.
5. Sidewalk finish shall be light broom.

SIDEWALK DETAILS

REVISED 6/2016

CITY OF CUPERTINO STANDARD DETAILS | APPROVED BY: City Engineer | DATE: 6/29/16 | 1-19

CUPERTINO SANITARY DISTRICT



LEGEND:

1. BEDDING MATERIAL PER CUSD STANDARD SPECIFICATIONS
2. IN UNPAVED AREA, USE NATIVE BACKFILL COMPACTED TO 90% MINIMUM. IN PAVED AREA, USE CLASS 2 AGGREGATE BASE (3/4" MAXIMUM GRADATION) COMPACTED TO 95% MINIMUM. IF REQUIRED BY LOCAL AGENCY OR DISTRICT ENGINEER, USE 2 SACK SLURRY MIX CONCRETE BACKFILL. NATIVE MATERIAL MAY BE USED WITH DESIGNER OF RECORD RECOMMENDATION AND IF APPROVED BY THE DISTRICT ENGINEER.
3. CLASS 2 AGGREGATE BASE, 3/4" MAX.
4. 4" ASPHALT CONCRETE OR MATCH EXISTING DEPTH WHICHEVER IS GREATER.
5. APPLY TACK COAT ON SAW CUT EDGES PER SECTION 94 OF STATE SPECIFICATIONS.
6. TOPSOIL – MATCH EXISTING MINIMUM 90% RC(NATIVE MATERIAL)
7. GROUND COVER – MATCH EXISTING

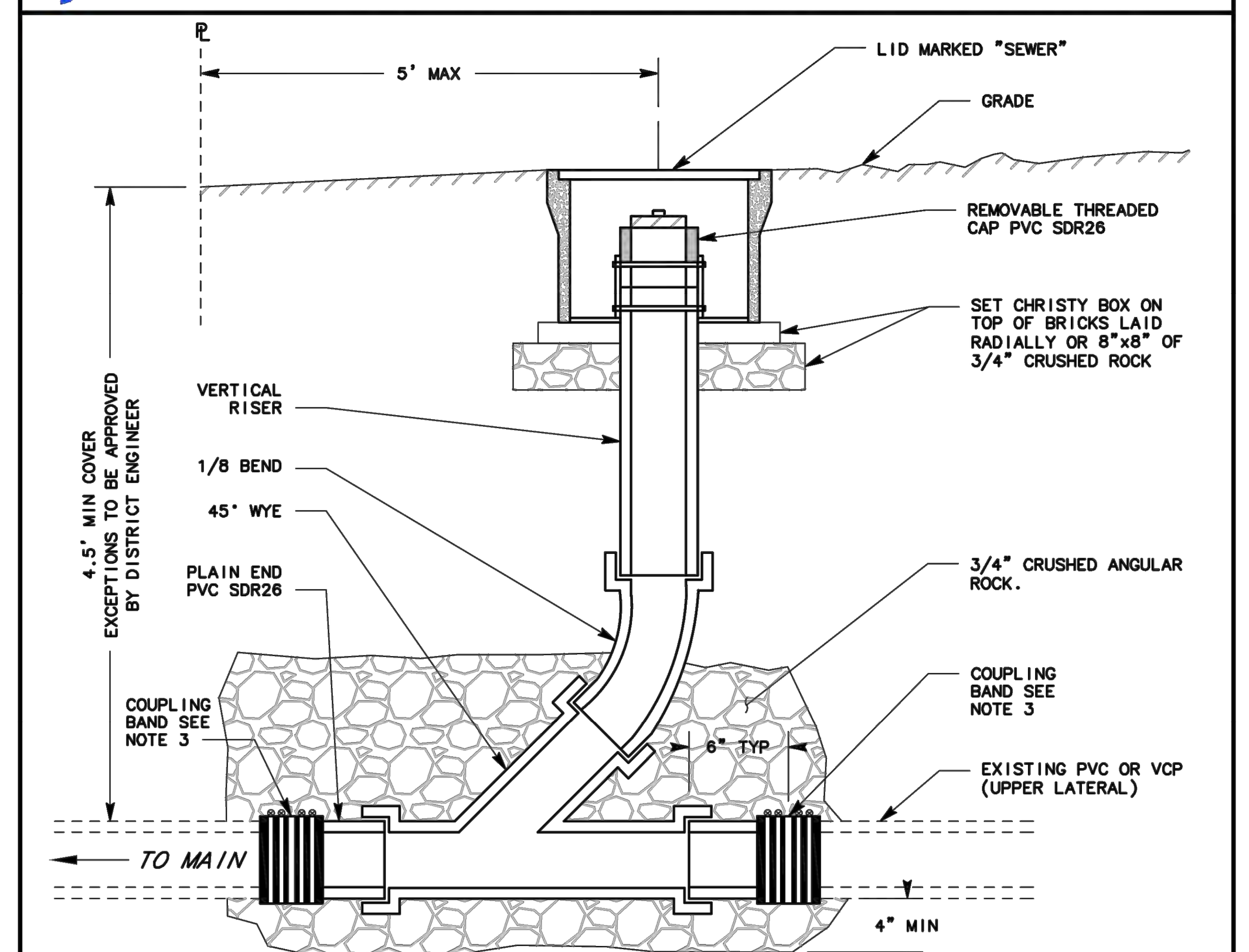
NOTES:

1. RELATIVE COMPACTION (RC) SHALL MEAN COMPACTION IS DETERMINED BY CALIFORNIA COMPACTION TEST METHOD OR BY ASTM METHODS.
2. ASPHALT CONCRETE TO BE HMA (TYPE A) ½" MAX AGGREGATE PER SECTION 39 OF STATE STANDARD SPECIFICATIONS.
3. ALL BACKFILL SHALL BE PLACED AND COMPACTED IN 6" MAXIMUM LIFTS.
4. CLASS 2 AGGREGATE BASE PER SECTION 26 AND ASPHALT CONCRETE (HMA) PER SECTION 39 OF THE STATE STANDARD SPECIFICATIONS AND DISTRICT STANDARD SPECIFICATIONS.
5. EXISTING AC PAVEMENT SHALL BE REPLACED TO THE EDGE OF PAVEMENT WHEN THE EDGE OF THE TRENCH IS 2' OR LESS FROM THE EDGE OF PAVEMENT.
6. WIDTH OF THE OPEN TRENCH WHEN INSTALLING THE MAIN LINE SHALL TYPICALLY BE TWICE THE DIA OF THE PIPE BUT NOT LESS THAN 24"
7. THIS DETAIL DESCRIBES THE MINIMUM REQUIREMENTS FOR CUPERTINO SANITARY DISTRICT ONLY. ALL LOCAL AND COUNTY STANDARD SPECIFICATIONS MUST ALSO BE MET.

STANDARD TRENCH — DETAIL 1

DR. BY: ED	DATE: 05/04/2020	CK. BY: FQ	DATE: 05/04/2020	APPROVED. BY:	DATE: 05/04/2020

CUPERTINO SANITARY DISTRICT



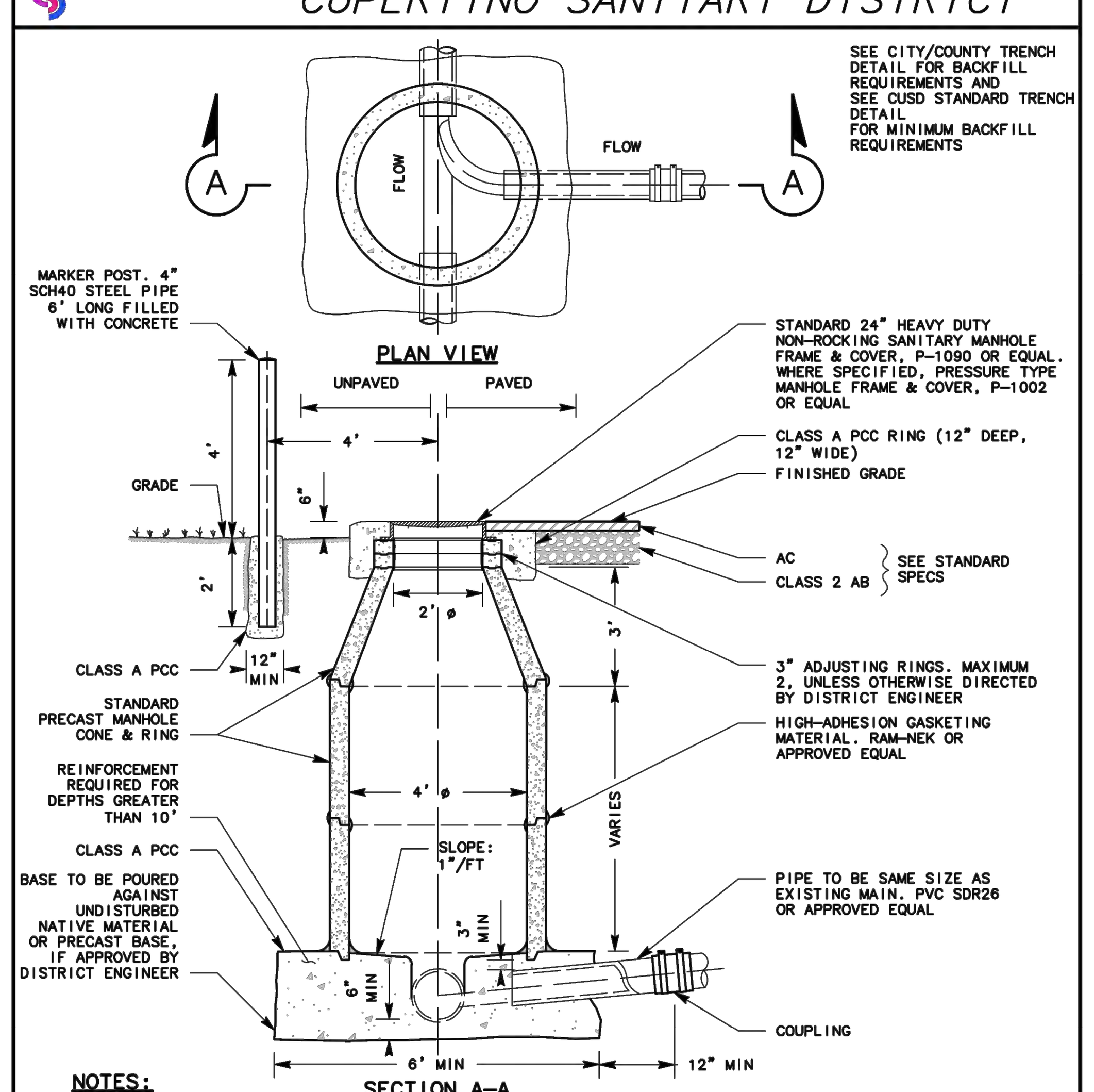
NOTES:

1. ALL PIPING AND FITTINGS SHALL BE PVC SDR26.
2. CLEANOUT BOX SHALL BE OLDCASTLE PRECAST F08 WITH F08C FOR NON-TRAFFIC AREA AND G05T WITH G05CT IN TRAFFIC AREA OR APPROVED EQUAL.
3. CONNECTION TO LOWER SANITARY SEWER LATERAL
   A. EXISTING LATERAL– MAKE CONNECTION TO EXISTING LATERAL IN GOOD CONDITION AS DETERMINED BY THE ENGINEER WITH MISSION CLAY "ARC SHIELDED", FERNCO "SHEAR RING COUPLING" OR APPROVED EQUAL.
   B. NEW LATERAL– SEE DETAIL 6 FOR LOWER LATERAL. CONNECT LATERAL WYE DIRECTLY TO LOWER LATERAL
4. CLEANOUT,ONCE INSTALLED AND APPROVED BY THE DISTRICT, BECOMES PRIVATELY OWNED AND MAINTAINED BY PROPERTY OWNER.

PROPERTY LINE CLEANOUT — DETAIL 7

DR. BY: JB	DATE: 05/04/2020	CK. BY: RTK	DATE: 05/04/2020	APPROVED. BY:	DATE: 05/04/2020

CUPERTINO SANITARY DISTRICT



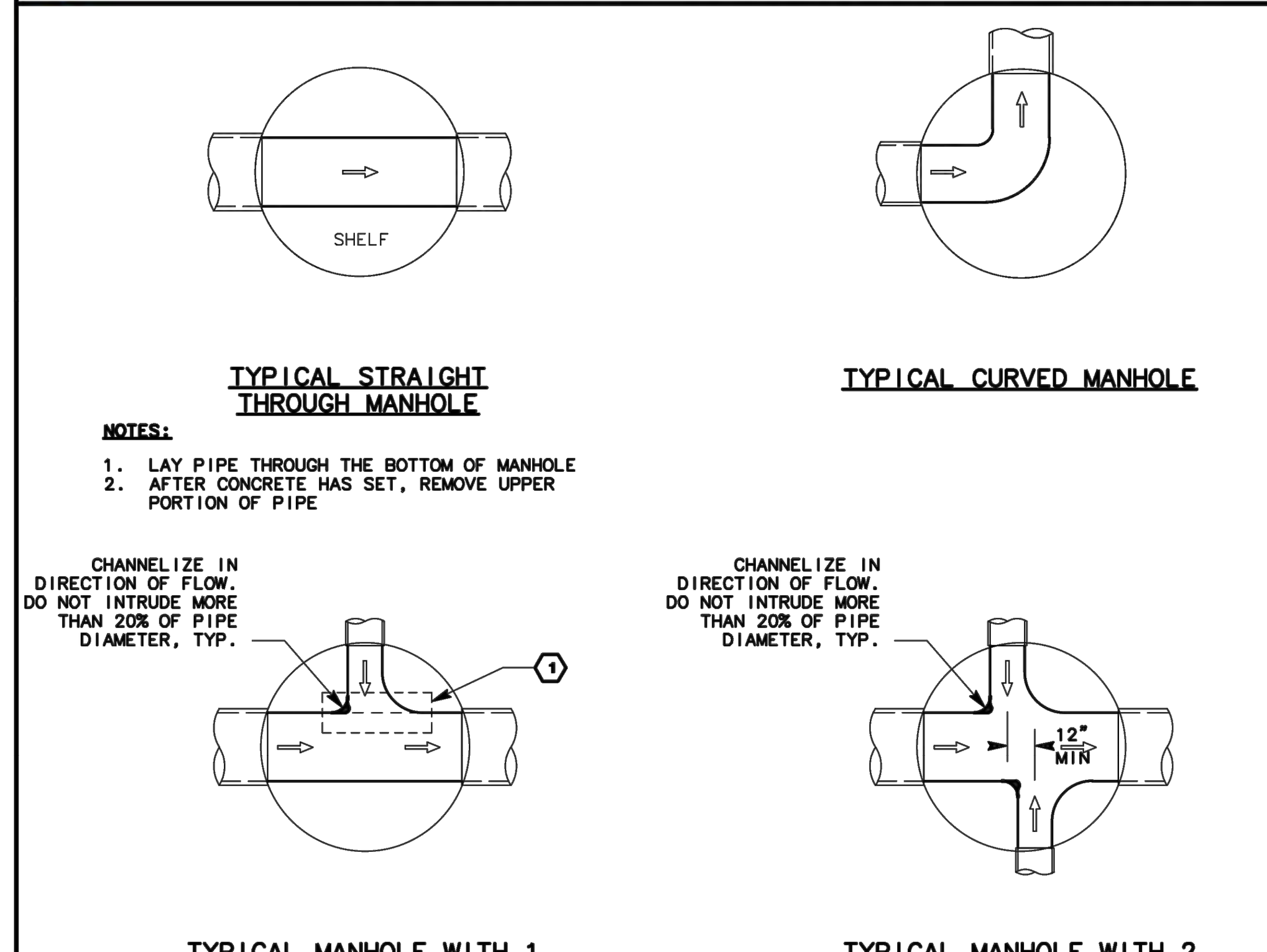
NOTES:

1. COUPLING BAND SHALL BE MISSION BANDED STAINLESS STEEL "ARC SHIELD", FERNCO STAINLESS STEEL "SHEAR RING", OR APPROVED EQUAL. COUPLING BAND IS REQUIRED FOR ALL CONNECTIONS TO THE MANHOLE.
2. ALL CONCRETE TO BE SIX (6) SACK.
3. ALL GROUT SHALL CONTAIN "HYDROPEL" EXCEPT WHEN DIRECTED OTHERWISE BY DISTRICT ENGINEER.

STANDARD MANHOLE — DETAIL 2

DR. BY: ED	DATE: 05/04/2020	CK. BY: FQ	DATE: 05/04/2020	APPROVED. BY:	DATE: 05/04/2020

CUPERTINO SANITARY DISTRICT



TYPICAL STRAIGHT THROUGH MANHOLE

NOTES:
1. LAY PIPE THROUGH THE BOTTOM OF MANHOLE
2. AFTER CONCRETE HAS SET, REMOVE UPPER PORTION OF PIPE

TYPICAL MANHOLE WITH 1 BRANCH

NOTES:
1. REMOVE PORTION OF PIPE IN BOXED AREA ABOVE
2. THEN LAY PIPE THROUGH THE BOTTOM OF MANHOLE
3. AFTER CONCRETE HAS SET, REMOVE UPPER PORTION OF PIPE

TYPICAL MANHOLE WITH 2 BRANCHES

NOTES:
1. WHEN FOUR LINES COME INTO A MANHOLE, THE TWO LINES WHICH EMPTY INTO THE MAIN CHANNEL ARE TO BE STAGGERED FROM CENTERLINE TO CENTERLINE BY 12" MINIMUM

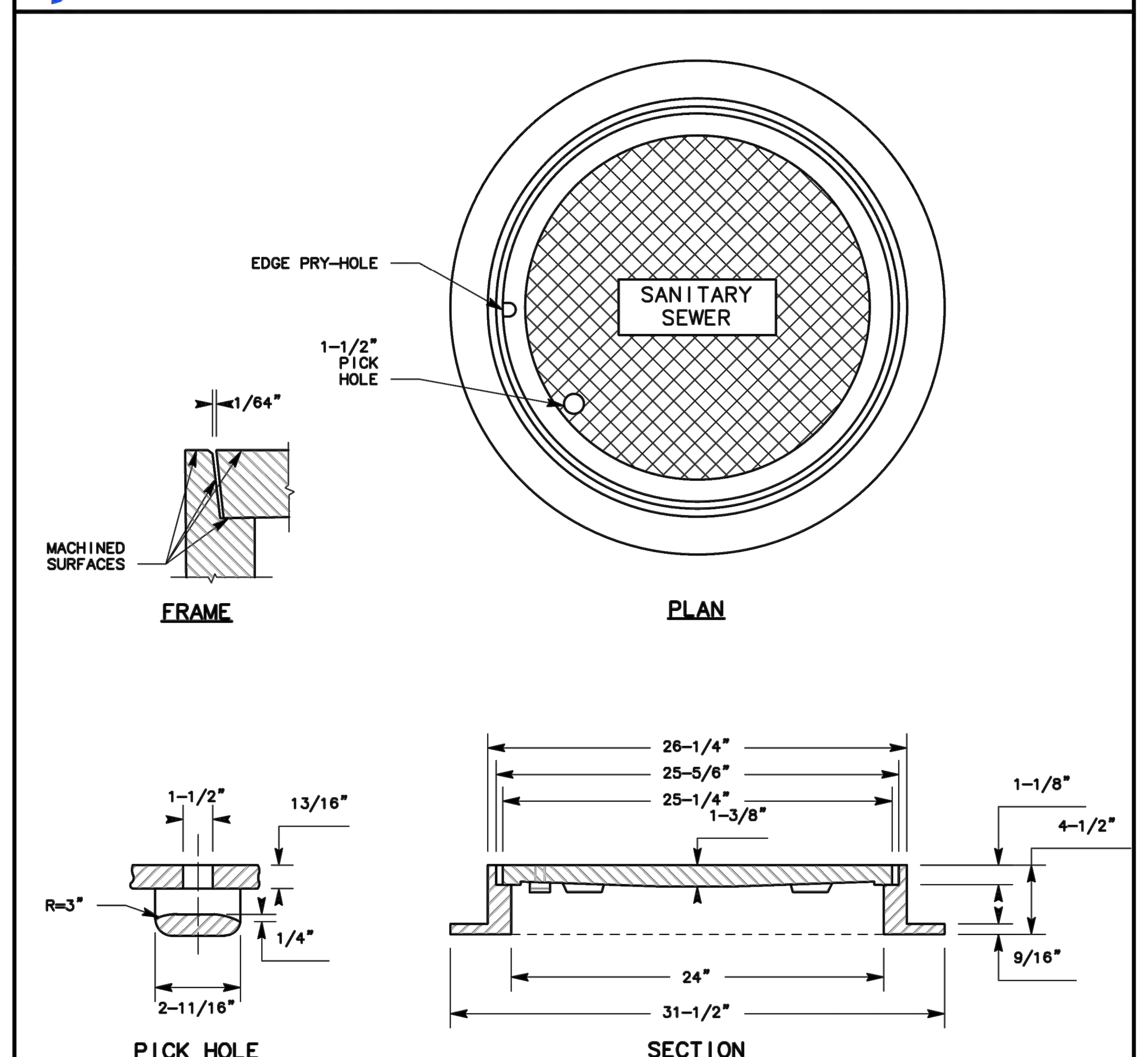
NOTES:

1. CHANNELS TO BE FORMED TO APPROXIMATE WIDTH, SIZE, & SHAPE OF PIPE AND FINISHED WITH GROUT
2. THICKNESS OF GROUT TO BE APPROXIMATELY HALF AN INCH (1/2")
3. TROWEL SMOOTH CURVES TO FIT, TYP

FILE NO. SP-248 — **MANHOLE CHANNELS** — DETAIL 3

DR. BY: ED	DATE: 05/04/2020	CK. BY: FQ	DATE: 05/04/2020	APPROVED. BY:	DATE: 05/04/2020

CUPERTINO SANITARY DISTRICT



NOTES:

1. WHEN THERE IS A NEED TO RAISE MANHOLE COVER TO MEET GRADE, ONLY ONE (1) ADDITIONAL MANHOLE RING MAY BE ADDED, UNLESS OTHERWISE DIRECTED BY THE DISTRICT ENGINEER
2. FRAME & COVER SHALL BE PHOENIX IRON WORKS #P-1090, OR APPROVED EQUAL
3. COVER TO BE MACHINED FOR PERFECT, NO-ROCK FIT

FRAME & COVER — DETAIL 4

DR. BY: ED	DATE: 05/04/2020	CK. BY: FQ	DATE: 05/04/2020	APPROVED. BY:	DATE: 05/04/2020

MIG
800 HEARST AVENUE
BERKELEY, CA 94710
TEL (510) 845-7549
www.migcom.com

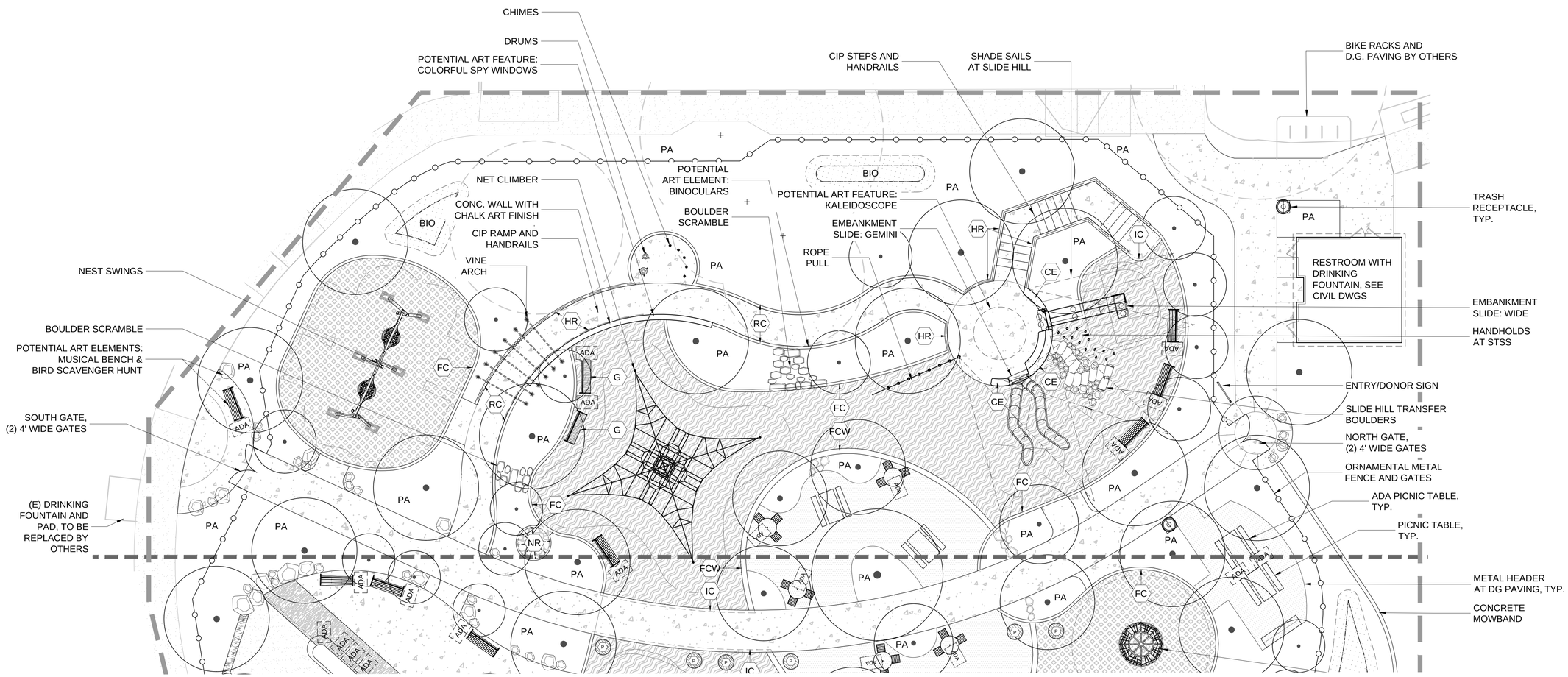
Date:	02-21-2023
Scale:	AS SHOWN
Designed:	CA
Drawn:	JH
Checked:	PK
Proj. Engr:	
File:	C20211516

REVISIONS | DESIGN BY | DESIGN DATE | CITY APPR. | APPR. DATE

IMPROVEMENT PLANS FOR
ALL-INCLUSIVE PLAYGROUND AT JOLLYMAN PARK
CUPERTINO CALIFORNIA

FOR CITY OF CUPERTINO USE
PROJECT # ___________
PUBLIC WORKS INSPECTOR:
VOICE MAIL:

CITY OF CUPERTINO
C6.01
CONSTRUCTION DETAILS
SHEET



LEGEND

- PEDESTRIAN CONCRETE PAVING
- DECOMPOSED GRANITE (DG) PAVING
- SYNTHETIC TURF SAFETY SURFACING (STSS)
- POURED IN PLACE (PIP) SAFETY SURFACING
- SAND
- COMPOSITE WOOD DECK
- ROUNDED BOULDER
- SQUARE EDGED BOULDER
- STEPPING STONES
- PA — PLANTING AREA
- BIO — BIORETENTION AREA, SEE CIVIL DWGS
- TREE
- (E) TREE TO BE PROTECTED
- LIMIT OF WORK
- MATCH LINE
- ORNAMENTAL METAL FENCE
- RAILING
- OVERHEAD FEATURES
- PLAY SAFETY ZONE
- ADA — DESIGNATED COMPANION SEATING AREA
- GAME TABLE + CHAIRS
- PARK BENCH
- G — GLIDER BENCH
- PLOP BENCH
- PICNIC TABLE
- ADA PICNIC TABLE
- BUFFET TABLE
- TRASH RECEPTACLE
- FC — FLUSH CONC. CURB AT SS (STANDARD 6" WIDE)
- FCW — FLUSH CONC. CURB AT SS (12" WIDE)
- IC — INTEGRAL CONC. CURB AT SS
- RC — RAISED CURB
- SC — SAND PLAY CURB
- CE — CIP CONCRETE EDGE AT SLIDE HILL
- HR — HAND RAIL
- NR — NATURE RETREAT

MIG
800 HEARST AVENUE
BERKELEY, CA 94710
TEL (510) 845-7549
www.migcom.com

Date:	02-21-2023
Scale:	
Designed:	
Drawn:	CH
Checked:	JE
Proj. Engr:	
File:	

REVISIONS	DESIGN BY	DESIGN DATE	CITY APPR.	APPR. DATE

IMPROVEMENT PLANS FOR

ALL-INCLUSIVE PLAYGROUND AT JOLLYMAN PARK

CUPERTINO CALIFORNIA

FOR CITY OF CUPERTINO USE
PROJECT # _____

PUBLIC WORKS INSPECTOR:

VOICE MAIL:

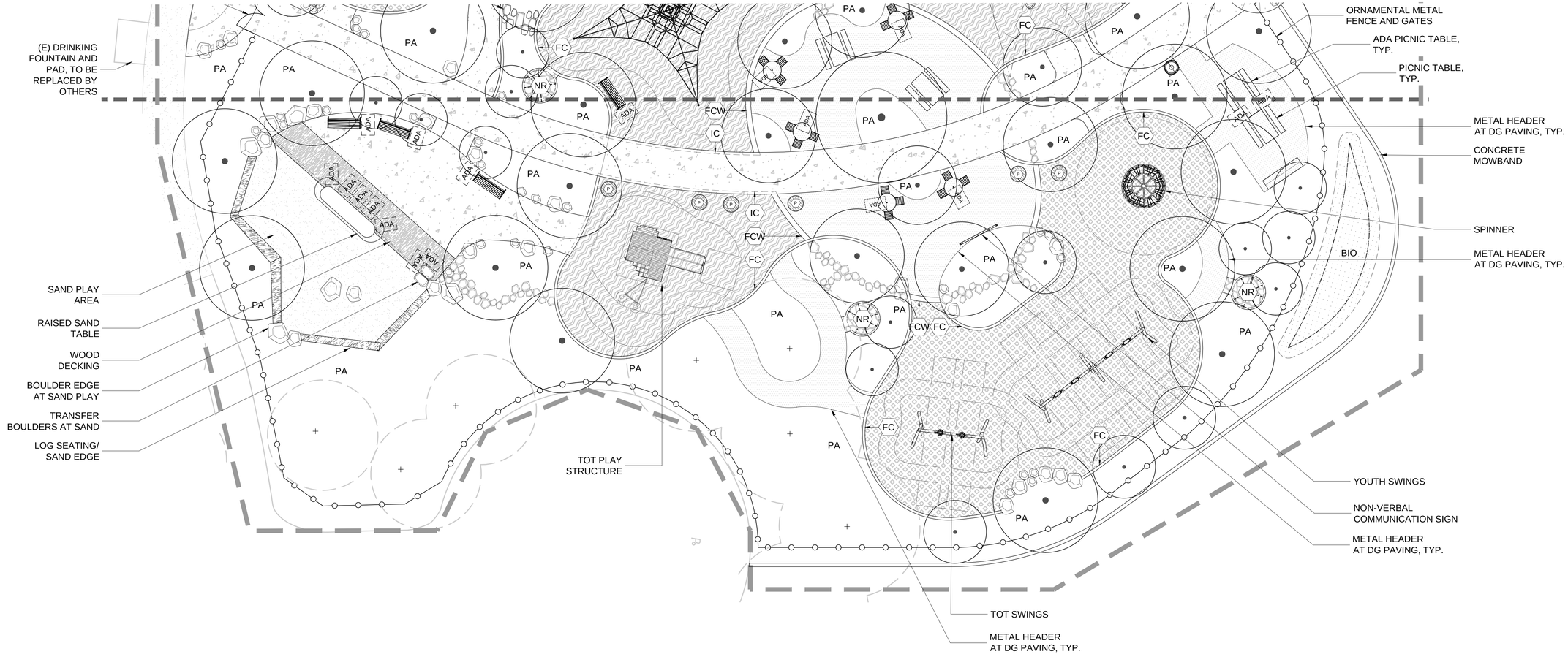
CITY OF CUPERTINO

L1.10
MATERIALS & DETAIL REFERENCE PLAN - WEST
SHEET

FEBRUARY 2023

Z:\SHARED\BERKELEY\3000_CED\3\0902 JOLLYMAN PLAY\07 CD\L1.X-MATRLS_3\0902.DWG

ALL-INCLUSIVE PLAYGROUND AT JOLLYMAN PARK / 50% CD / NOT FOR CONSTRUCTION / 02-21-2023



LEGEND

- PEDESTRIAN CONCRETE PAVING
- DECOMPOSED GRANITE (DG) PAVING
- SYNTHETIC TURF SAFETY SURFACING (STSS)
- POURED IN PLACE (PIP) SAFETY SURFACING
- SAND
- COMPOSITE WOOD DECK
- ROUNDED BOULDER
- SQUARE EDGED BOULDER
- STEPPING STONES
- PA — PLANTING AREA
- BIO — BIORETENTION AREA, SEE CIVIL DWGS
- TREE
- (E) TREE TO BE PROTECTED
- LIMIT OF WORK
- MATCH LINE
- ORNAMENTAL METAL FENCE
- RAILING
- OVERHEAD FEATURES
- PLAY SAFETY ZONE
- ADA — DESIGNATED COMPANION SEATING AREA
- GAME TABLE + CHAIRS
- PARK BENCH
- G — GLIDER BENCH
- PLOP BENCH
- PICNIC TABLE
- ADA PICNIC TABLE
- BUFFET TABLE
- TRASH RECEPTACLE
- FC — FLUSH CONC. CURB AT SS (STANDARD 6" WIDE)
- FCW — FLUSH CONC. CURB AT SS (12" WIDE)
- IC — INTEGRAL CONC. CURB AT SS
- RC — RAISED CURB
- SC — SAND PLAY CURB
- CE — CIP CONCRETE EDGE AT SLIDE HILL
- HR — HAND RAIL
- NR — NATURE RETREAT

0 5' 10' 20'

NORTH

MIG
800 HEARST AVENUE BERKELEY, CA 94710
TEL (510) 845-7549
www.migcom.com

Date:	02-21-2023
Scale:	
Designed:	
Drawn:	CH
Checked:	JE
Proj. Engr:	
File:	

REVISIONS	DESIGN BY	DESIGN DATE	CITY APPR.	APPR. DATE

IMPROVEMENT PLANS FOR

ALL-INCLUSIVE PLAYGROUND AT JOLLYMAN PARK

CUPERTINO CALIFORNIA

FOR CITY OF CUPERTINO USE
PROJECT # _____

PUBLIC WORKS INSPECTOR:

VOICE MAIL:

CITY OF CUPERTINO

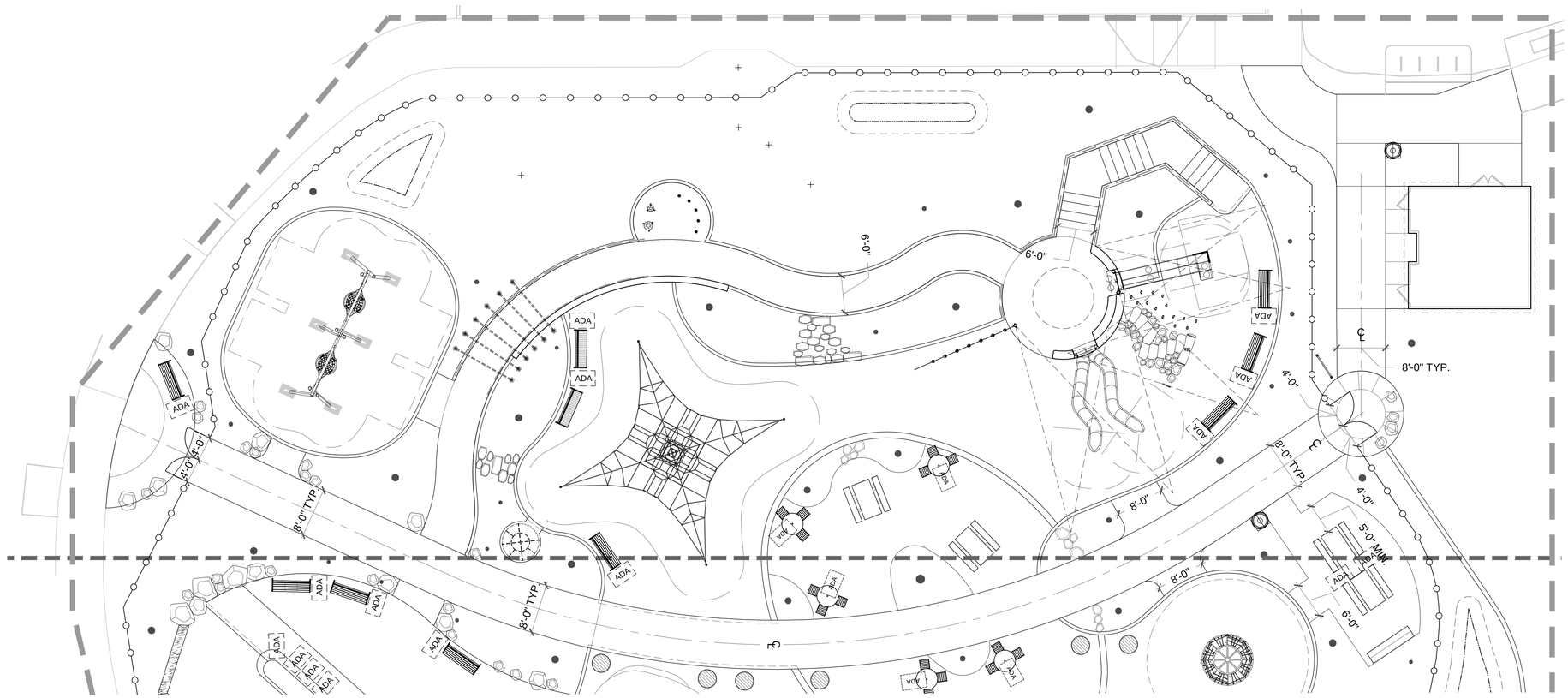
L1.11
MATERIALS & DETAIL REFERENCE PLAN - EAST

SHEET

FEBRUARY 2023

Z:\SHARED\BERKELEY\3000_CED\S\30902 JOLLYMAN PLAY\07 CD\L1.X-MATRLS_30902.DWG

ALL-INCLUSIVE PLAYGROUND AT JOLLYMAN PARK / 50% CD / NOT FOR CONSTRUCTION / 02-21-2023



LAYOUT NOTES

1. COORDINATES, BEARINGS, DISTANCES, AND ELEVATIONS ARE BASED ON A BKF SURVEY DATED MONTH, DAY YEAR. SEE EXISTING CONDITIONS PLAN AND CAD SURVEY FILE FOR BENCHMARKS AND ADDITIONAL SURVEY NOTES.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERIFICATION OF THE LOCATIONS OF ALL UTILITIES IN THE FIELD. LOCATIONS SHOWN ON THE PLAN ARE APPROXIMATE AND FOR GENERAL INFORMATION ONLY. THE CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT (U.S.A.) AT LEAST 48 HOURS PRIOR TO AN EXCAVATION ON THIS PROJECT (PHONE: 800-227-2600).
3. ALL "LAYOUT" WORK SHALL BE APPROVED BY THE ENGINEER PRIOR TO THE START OF ANY EXCAVATION.
4. DIMENSIONS SHOWN ON LAYOUT PLANS INDICATE CERTAIN CRITICAL DIMENSIONS & CLEARANCES AND SITING OF SMALLER ELEMENTS IN RELATION TO THE OVERALL. FOR FULL SITE LAYOUT, OVERALL DIMENSIONS, AND LAYOUT OF CURVED PATHS & RADII, CONTRACTOR SHALL REQUEST CAD DESIGN FILE PER THE NEXT NOTE.
5. A 2D AUTOCAD 2020 FILE (FOR THE SOLE PURPOSE OF HORIZONTAL LAYOUT) WILL BE PROVIDED TO THE CONTRACTOR AT THE BEGINNING OF THE PROJECT'S CONSTRUCTION. THE AUTOCAD FILE WILL PROVIDE FOR HORIZONTAL LAYOUT OF CIVIL UTILITIES (SEWER AND WATER) AND PAVING (WALKS, DRIVES, CURBS) SHOWN ON PLAN VIEWS OF THE CIVIL AND LANDSCAPE DRAWINGS. PRIOR TO RELEASE OF AUTOCAD FILE, SUBMIT REQUEST FOR "ELECTRONIC INFORMATION TRANSFER AGREEMENT (EITA) FORM" THROUGH PROJECT'S ESTABLISHED RFI PROCESS. FOLLOWING RECEIPT OF SIGNED EITA FORM, THE DESIGN TEAM WILL PREPARE AND DELIVER CAD FILES FOR CONTRACTOR'S USE TO CITY REPRESENTATIVE WITHIN SEVEN (7) BUSINESS DAYS. CONTRACTOR SHALL NOTIFY CITY REPRESENTATIVE OF ANY DISCREPANCIES OR CONCERNS RELATED TO THE AUTOCAD FILE, HARD COPY DRAWINGS AND SITE CONDITIONS PRIOR TO LAYOUT.
6. USING CONTRACTOR'S PREFERRED METHOD (STRING, CHALK PAINT, OR OTHER), CONTRACTOR SHALL OBTAIN APPROVAL FROM THE CITY'S REPRESENTATIVE FOR LAYOUT OF PLAY EQUIPMENT SAFETY ZONE AND ITS ADJACENT CURBS AND FEATURES, IN RELATION TO THE SURROUNDING IMPROVEMENTS PRIOR TO INSTALLATION OF ANY OF THESE ITEMS.
7. ALL POSTS ARE DIMENSIONED FROM CENTER TO CENTER UNLESS SPECIFICALLY INDICATED OTHERWISE.
8. PATHWAY EDGES SHALL BE PARALLEL ALONG THE ENTIRE LENGTH OF PATH UNLESS OTHERWISE INDICATED.
9. ALL CURVES SHALL BE SMOOTH, CONTINUOUS AND TANGENT TO OTHER CURVES & EDGES.
10. IN AREAS WHERE NEW CONCRETE IS JOINED WITH EXISTING CONCRETE, THE CONNECTION SHALL BE MADE AT THE NEAREST SCORE LINE.
11. ALL CONCRETE SURFACES SHALL HAVE A MEDIUM BROOM FINISH AND BE APPROVED BY THE ENGINEER, EXCEPT WHERE SHOWN OTHERWISE.

LEGEND

- CENTER LINE
- EXISTING TREE
- PROPOSED TREE LOCATION
- LIMIT LINE
- MATCH LINE

0 5' 10' 20'

NORTH

MIG
800 HEARST AVENUE
BERKELEY, CA 94710
TEL: (510) 845-7549
www.migcom.com

Date:	02-21-2023
Scale:	
Designed:	
Drawn:	CH
Checked:	JE
Proj. Engr:	
File:	

	REVISIONS	DESIGN BY	DESIGN DATE	CITY APPR.	APPR. DATE
△					

IMPROVEMENT PLANS FOR

ALL-INCLUSIVE PLAYGROUND AT JOLLYMAN PARK

CUPERTINO CALIFORNIA

FOR CITY OF CUPERTINO USE
PROJECT # _____

PUBLIC WORKS INSPECTOR:

VOICE MAIL:

CITY OF CUPERTINO

L2.10
LAYOUT PLAN - WEST

SHEET

FEBRUARY 2023

Z:\SHARED\BERKELEY\3000_CEDS\30902 JOLLYMAN PLAY\07 CDN\L2-X-LAYOUT_30902.DWG

ALL-INCLUSIVE PLAYGROUND AT JOLLYMAN PARK / 50% CD / NOT FOR CONSTRUCTION / 02-21-2023

LEGEND

- CENTER LINE
- \+ EXISTING TREE
- • PROPOSED TREE LOCATION
- LIMIT LINE
- MATCH LINE

0 5' 10' 20'

NORTH

CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.

Z:\SHARED\BERKELEY\3000_CED\S\30902 JOLLYMAN PLAY\07 CD\L2.X-LAYOUT_30902.DWG

MIG
800 HEARST AVENUE
BERKELEY, CA 94710
TEL (510) 845-7549
www.migcom.com

Date:	02-21-2023
Scale:	
Designed:	
Drawn:	CH
Checked:	JE
Proj. Engr:	
File:	

REVISIONS	DESIGN BY	DESIGN DATE	CITY APPR.	APPR. DATE

IMPROVEMENT PLANS FOR

ALL-INCLUSIVE PLAYGROUND AT JOLLYMAN PARK

CUPERTINO CALIFORNIA

FOR CITY OF CUPERTINO USE
PROJECT # _____

PUBLIC WORKS INSPECTOR:

VOICE MAIL:

CITY OF CUPERTINO

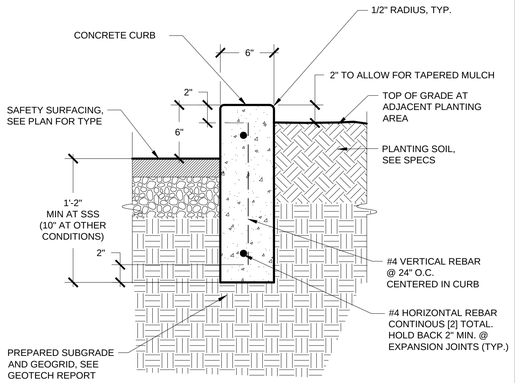
L2.11
LAYOUT PLAN - EAST

SHEET

FEBRUARY 2023

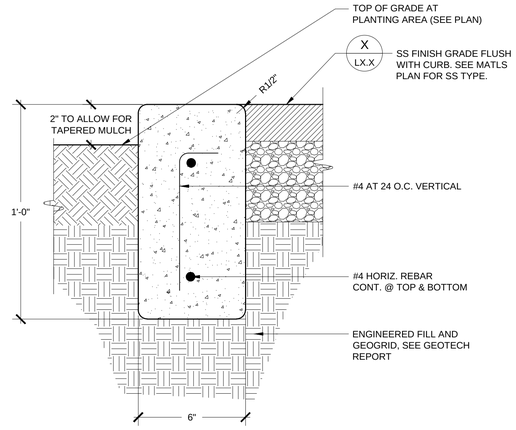
ALL-INCLUSIVE PLAYGROUND AT JOLLYMAN PARK / 50% CD / NOT FOR CONSTRUCTION / 02-21-2023

NOTES:
1. FINISH: MEDIUM BROOM



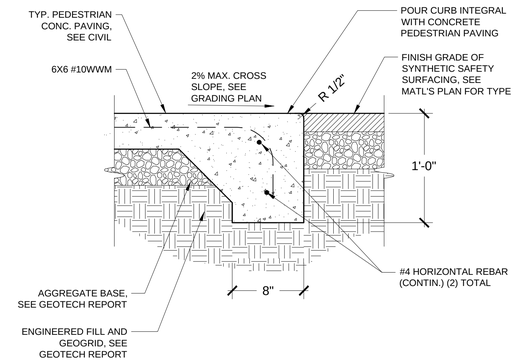
1 RAISED CURB — Scale: 1 1/2" = 1'-0"

NOTES:
1. FINISH: MEDIUM BROOM



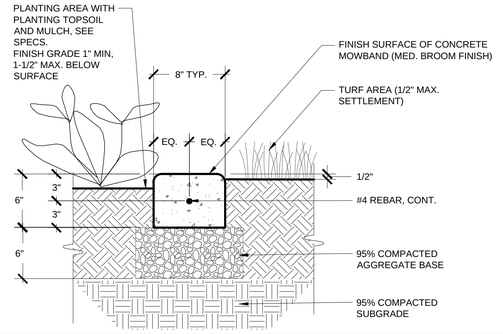
2 FLUSH CONC. CURB AT SS (STD. 6" WIDE) — Scale: NTS

NOTES:
1. FINISH: MEDIUM BROOM



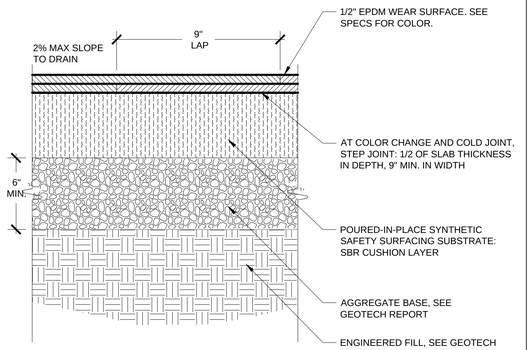
3 INTEGRAL CONC. CURB AT SS — Scale: NTS

NOTES:
1. EXPANSION JOINTS USING 1/4 " PREMOLDED JOINT FILLER (FELT) SHALL BE INSTALLED AT 60' INTERVALS MAXIMUM.



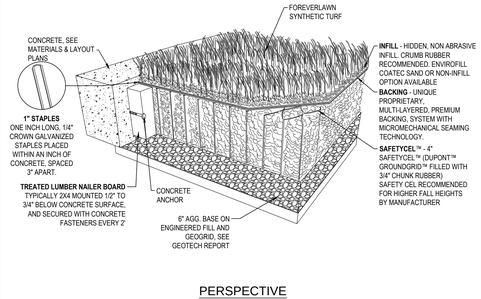
4 CONCRETE MOWBAND — SCALE: 1 1/2" = 1'-0"

NOTES:
1. TOTAL DEPTH OF SAFETY SURFACING TO BE DETERMINED BY MANUFACTURER BASED ON HIGHEST DESIGNATED PLAY SURFACE FOR EACH PLAY ELEMENT.
2. SEE MATERIALS PLAN AND L3.0 DTLS FOR EDGING



5 PIP SAFETY SURFACING — Scale: NTS

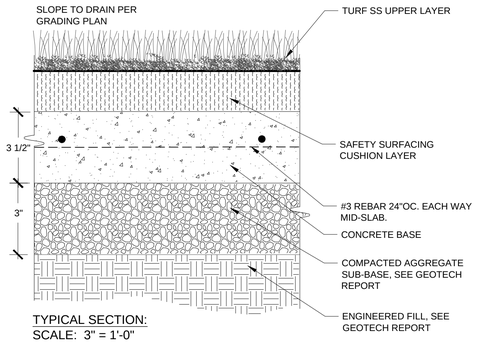
LANDSCAPE NOTES:
1. TOTAL DEPTH OF SAFETY SURFACING TO BE DETERMINED BY MANUFACTURER TO BASED ON HIGHEST DESIGNATED PLAY SURFACE FOR EACH PLAY ELEMENT.
2. INSTALLATION TO FOLLOW MANUFACTURER'S INSTRUCTIONS.
3. SEE GEOTECH REPORT FOR AGG. BASE, GEOGRID AND ENGINEERED FILL REQUIREMENTS.
4. SEE CIVIL DRAWINGS FOR SUBSURFACE DRAINS.



PERSPECTIVE

6 SYN. TURF SS ON AGG. BASE — Scale: 3/8" = 1'-0"

NOTES:
1. CONCRETE BASE TO BE USED AT TURF SS WHEREVER SLOPES ARE GREATER THAN 4:1. FOR ALL OTHER AREAS, SEE DETAIL 2/THIS SHEET FOR TURF SS WITH AGG. BASE.
2. TOTAL DEPTH OF SAFETY SURFACING TO BE DETERMINED BY MANUFACTURER BASED ON HIGHEST DESIGNATED PLAY SURFACE FOR EACH PLAY ELEMENT.
3. FOR EDGE AT PAVING, SEE L3.0 DETAILS AND MANUFACTURER INSTRUCTIONS



TYPICAL SECTION:
SCALE: 3" = 1'-0"

7 SYN. TURF SS ON CONC. BASE — Scale: NTS

NOTE:
PRELIMINARY STANDARD DETAILS PROVIDED. ADD'L CUSTOM DETAILS TO BE PROVIDED AT 90% SUBMITTAL. SEE ATTACHED CUT SHEETS FOR PROPOSED PLAY EQUIP. AND SITE FURNISHINGS.

MIG
800 HEARST AVENUE
BERKELEY, CA 94710
TEL (510) 845-7549
www.migcom.com

Date:	02-21-2023
Scale:	
Designed:	
Drawn:	CH
Checked:	JE
Proj. Engr:	
File:	

	REVISIONS	DESIGN BY	DESIGN DATE	CITY APPR.	APPR. DATE
△					

IMPROVEMENT PLANS FOR

ALL-INCLUSIVE PLAYGROUND AT JOLLYMAN PARK

CUPERTINO CALIFORNIA

FOR CITY OF CUPERTINO USE
PROJECT # _____

PUBLIC WORKS INSPECTOR:

VOICE MAIL:

CITY OF CUPERTINO

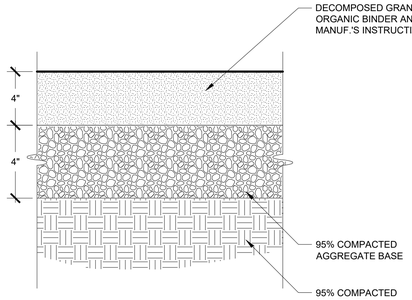
L3.10
CONSTRUCTION DETAILS

SHEET

FEBRUARY 2023

NOTES:

1. PROVIDE STEEL HEADER AT EDGE OF D.G. PAVING AS SHOWN ON PLAN, PER 7/-
2. WHERE ADJACENT TO PAVING, D.G. TO BE FLUSH TO PAVING
3. SEE SPECS FOR COLOR AND BINDER INFORMATION.

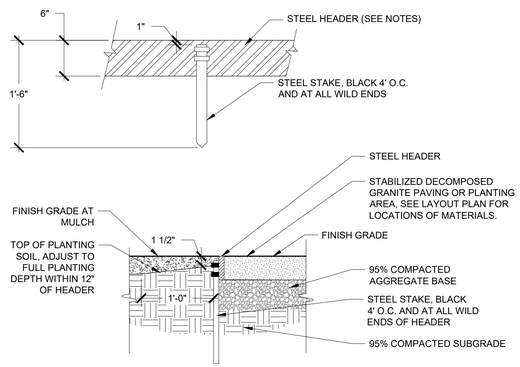


1 DECOMPOSED GRANITE PAVING

Scale: 3" = 1'-0"

NOTES:

1. HEADER SHALL BE COL-MET BLACK POWDER COATED 12-GAUGE STEEL
2. WHERE HEADER SEPARATES TWO PLANTING AREAS, BOTH PLANTING AREAS SHALL BE PER PLANTING AREA SECTION BELOW.



2 METAL HEADER AT DG PAVING

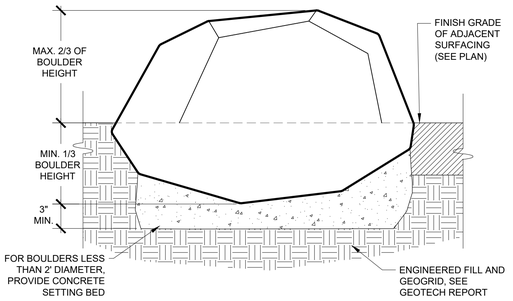
Scale: 1" = 1'-0"

NOTES:

1. BOULDERS SHALL BE ROUNDED, NON-CRUMBLING STONE. (SEE SPECS.) SUBMIT SAMPLE PHOTOS FOR APPROVAL OF BOULDERS.
2. BOULDER SCHEDULE PROVIDED FOR BIDDING PURPOSE. LAYOUT AND LOCATION OF BOULDERS TO BE FIELD APPROVED BY OWNER'S REPRESENTATIVE.
3. SEE DETAIL X/LX.X AND X/LX.X FOR INFORMATION ON BOULDER TRANSFER PLATFORMS AND BOULDER TRANSFER STEPS
4. SEE SHEETS LX.X, LX.X, LX.X PLAN VIEWS FOR BOULDER SIZING

BOULDER SCHEDULE

NAME	SIZE	QUANTITY
BOULDER A	1'-0 TO +/- 1'-6"Ø	*SEE PLAN*
BOULDER B	1'-6" TO +/- 2'-0"Ø	*SEE PLAN*
BOULDER C	2'-0" TO +/- 2'-6"Ø	*SEE PLAN*
BOULDER D	2'-6" TO +/- 3'-0"Ø	*SEE PLAN*
BOULDER E	3'-0" TO +/- 3'-6"Ø	*SEE PLAN*
BOULDER F	3'-6" TO +/- 4'-0"Ø	*SEE PLAN*
BOULDER G	4'-0" TO +/- 4'-6"Ø	*SEE PLAN*

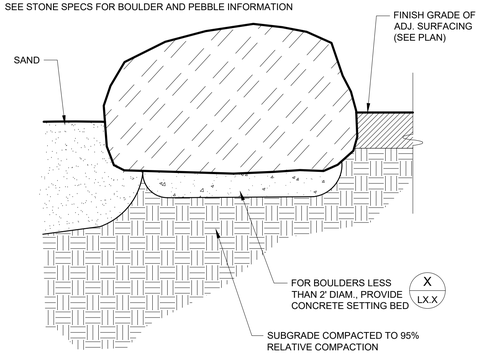


3 BOULDER INSTALLATION

Scale: 1 1/2" = 1'-0"

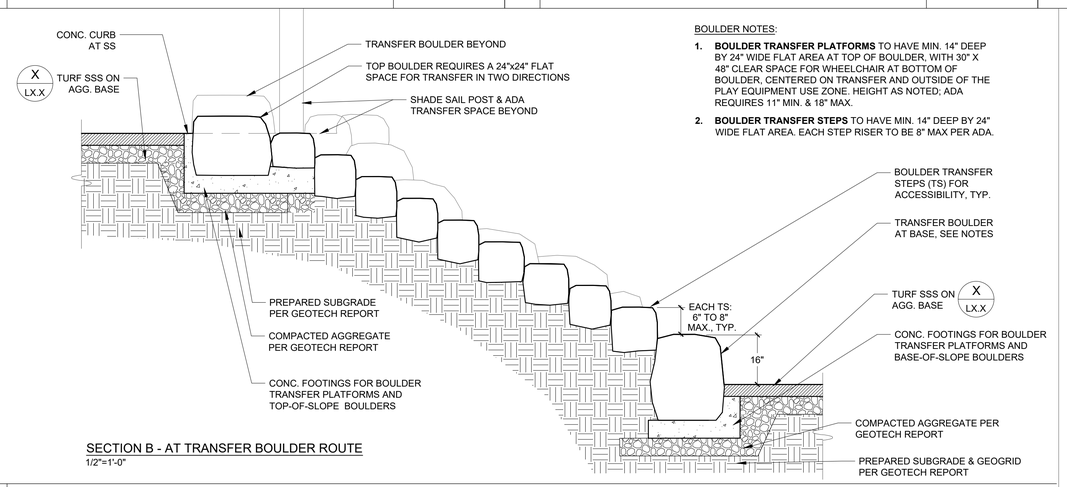
NOTES:

1. DTL SHOWS RELATIONSHIP OF BOULDER TO SAND PLAY AREA. SEE BOULDER DTL X/LX.X FOR ADD'L BOULDER REQUIREMENTS.
2. SEE STONE SPECS FOR BOULDER AND PEBBLE INFORMATION



4 BOULDER EDGE AT SAND PLAY

Scale: 1 1/2" = 1'-0"



SECTION B - AT TRANSFER BOULDER ROUTE
1/2"=1'-0"

BOULDER NOTES:

1. **BOULDER TRANSFER PLATFORMS** TO HAVE MIN. 14" DEEP BY 24" WIDE FLAT AREA AT TOP OF BOULDER, WITH 30" X 48" CLEAR SPACE FOR WHEELCHAIR AT BOTTOM OF BOULDER, CENTERED ON TRANSFER AND OUTSIDE OF THE PLAY EQUIPMENT USE ZONE. HEIGHT AS NOTED; ADA REQUIRES 11" MIN. & 18" MAX.
2. **BOULDER TRANSFER STEPS** TO HAVE MIN. 14" DEEP BY 24" WIDE FLAT AREA. EACH STEP RISER TO BE 8" MAX PER ADA.

5 YOUTH HILLSIDE SLIDE & SCRAMBLE

NOTE:
PRELIMINARY STANDARD DETAILS PROVIDED. ADD'L CUSTOM DETAILS TO BE PROVIDED AT 90% SUBMITTAL. SEE ATTACHED CUT SHEETS FOR PROPOSED PLAY EQUIP. AND SITE FURNISHINGS.

MIG
800 HEARST AVENUE
BERKELEY, CA 94710
TEL (510) 845-7549
www.migcom.com

Date:	02-21-2023
Scale:	
Designed:	
Drawn:	CH
Checked:	JE
Proj. Engr:	
File:	

△	REVISIONS	DESIGN BY	DESIGN DATE	CITY APPR.	APPR. DATE

IMPROVEMENT PLANS FOR

ALL-INCLUSIVE PLAYGROUND AT JOLLYMAN PARK

CUPERTINO CALIFORNIA

FOR CITY OF CUPERTINO USE
PROJECT # _____

PUBLIC WORKS INSPECTOR:

VOICE MAIL:

CITY OF CUPERTINO

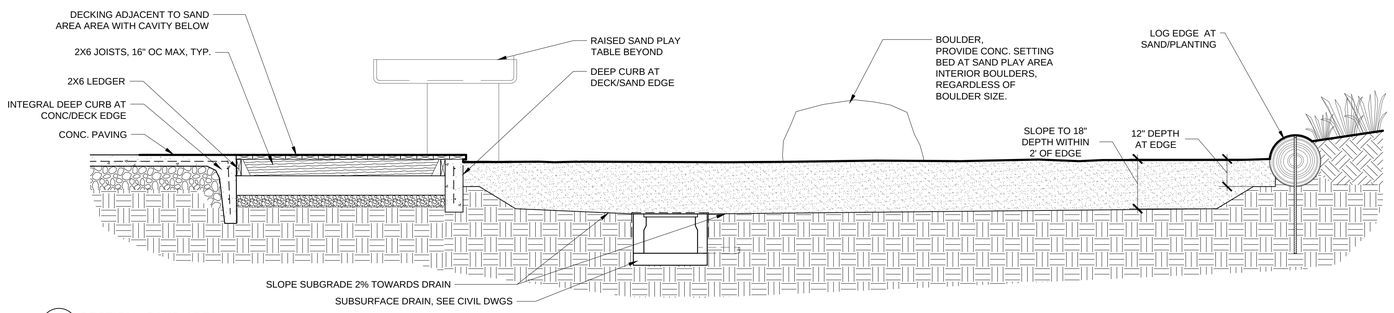
L3.11
CONSTRUCTION DETAILS

SHEET

FEBRUARY 2023

DECKING NOTES:

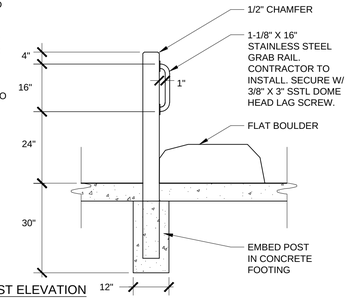
1. ALL STRUCTURAL MEMBERS, UNLESS SPECIFIED OTHERWISE TO BE ACQ. PRESSURE-TREATED LUMBER. (SEE SPECS.)
2. ALL DECKING TO BE SUSTAINABLY HARVESTED IPE OR REDWOOD DECKING (CITY REVIEW ITEM). SEE SPECS. FOR COLOR
3. ALL HARDWARE TO BE GALVANIZED.



A SECTION - SAND AREA
Scale: NTS

BOULDER NOTES:

1. FLAT BOULDERS FOR TRANSFERRING TO SAND SHALL BE APPROVED BY LANDSCAPE ARCHITECT.
2. BOULDERS SHALL BE ROUNDED FIELD STONE, PER SPECS. SOLID, NON-CRUMBLING ROCK, FREE OF SHARP CORNERS, OPEN CRACKS, OR HOLES. SEE BOULDER DTL 2/L3.3 FOR MORE INFO.
3. FLAT BOULDERS SHALL BE SET CLOSELY TOGETHER AND FIRMLY INTO THE CONCRETE SETTING BED SO THAT THEY WILL NOT ROLL, ROTATE, OR SETTLE.



POST ELEVATION

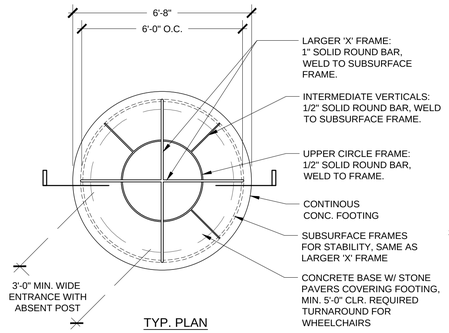
B TRANSFER BOULDERS INTO SAND
Scale: 1" = 1'-0"

1 SAND PLAY AREA

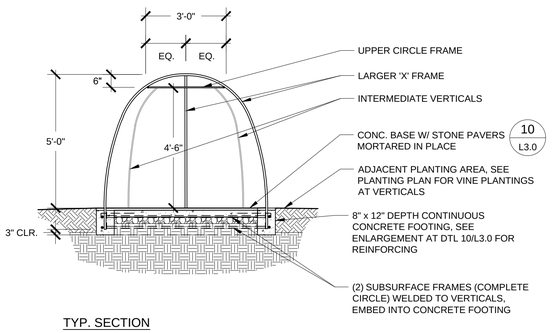
Scale: AS SHOWN

NOTES:

1. ALL METAL TO BE STAINLESS STEEL, SEE SPECS
2. SEE PLANTING PLAN FOR VINE SPECIES



TYP. PLAN



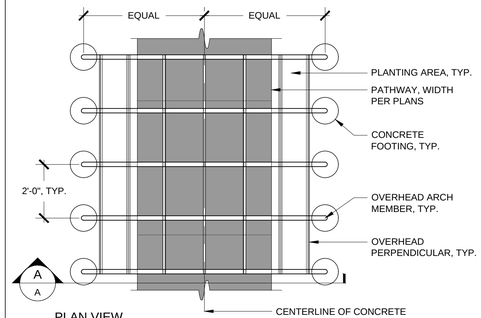
TYP. SECTION

2 NATURE RETREAT

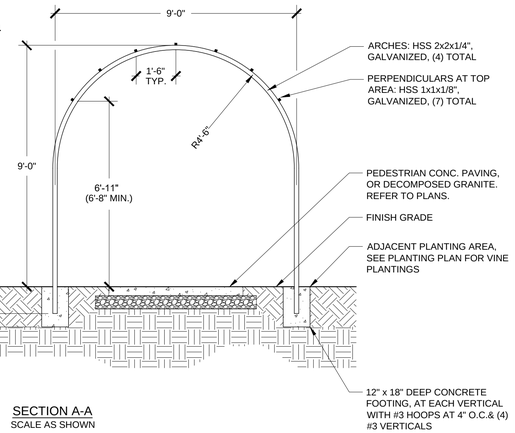
Scale: 3/8" = 1'-0"

NOTES:

1. ALL METAL TO BE GALVANIZED AND COATED WITH HIGH PERFORMANCE COATING, SUCH AS TNEMIC OR APPROVED EQUAL.
2. PROVIDE SOLID WELDS AT THE INTERSECTION OF ALL MEMBERS. ENSURE ALL WELDS ARE GROUND SMOOTH.
3. SEE L5.1 PLANTING PLAN AND DTL 4/L5.2 FOR VINE PLANTING
4. GENERAL CONTRACTOR TO PROVIDE FOR A CALIFORNIA STRUCTURAL ENGINEER'S REVIEW OF THE CONCRETE FOOTING SHOWN. PROVIDE IN STAMPED SUBMITTAL TO THE CITY OF SAN JOSE FOR APPROVAL.



PLAN VIEW
SCALE AS SHOWN



SECTION A-A
SCALE AS SHOWN

3 VINE ARCH

Scale: 3/8" = 1'-0"

NOTE:
PRELIMINARY STANDARD DETAILS PROVIDED. ADD'L CUSTOM DETAILS TO BE PROVIDED AT 90% SUBMITTAL. SEE ATTACHED CUT SHEETS FOR PROPOSED PLAY EQUIP. AND SITE FURNISHINGS.

MIG
800 HEARST AVENUE
BERKELEY, CA 94710
TEL (510) 845-7549
www.migcom.com

Date:	02-21-2023
Scale:	
Designed:	
Drawn:	CH
Checked:	JE
Proj. Engr:	
File:	

REVISIONS	DESIGN BY	DESIGN DATE	CITY APPR.	APPR. DATE

IMPROVEMENT PLANS FOR

ALL-INCLUSIVE PLAYGROUND AT JOLLYMAN PARK

CUPERTINO CALIFORNIA

FOR CITY OF CUPERTINO USE
PROJECT # _____

PUBLIC WORKS INSPECTOR:

VOICE MAIL:

CITY OF CUPERTINO

L3.12
CONSTRUCTION DETAILS

SHEET

FEBRUARY 2023

Z:\SHARED\BERKELEY\3000_CED\S\30902 JOLLYMAN PLAY\07 CD\L3.X_DETAILS_30902.DWG

ALL-INCLUSIVE PLAYGROUND AT JOLLYMAN PARK / 50% CD / NOT FOR CONSTRUCTION / 02-21-2023

LANDSCAPE IRRIGATION EQUIPMENT LEGEND, CONTINUED

TREE FLOOD BUBBLER

SYMBOL	MFG'R	MODEL #	NOZZLE FLOW	OPERATING PRESSURE	RADIUS	TOTAL FLOW PER TREE	NOTE	DETAIL
	(OR APPROVED EQUAL)							
⬢	RAIN BIRD	1402	0.5 GPM	30 PSI	N/A	1.0 GPM	CONTRACTOR TO INSTALL (2) BUBBLERS PER TREE ON OPPOSITE SIDES OF THE ROOTBALL.	

VINE FLOOD BUBBLER

SYMBOL	MFG'R	MODEL #	NOZZLE FLOW	OPERATING PRESSURE	RADIUS	TOTAL FLOW PER VINE	NOTE	DETAIL
	(OR APPROVED EQUAL)							
■	RAIN BIRD	1402	0.5 GPM	30 PSI	N/A	0.5 GPM	CONTRACTOR TO INSTALL (1) BUBBLER PER VINE ON HIGH SIDE OF THE ROOTBALL.	

SUBSURFACE DRIP IRRIGATION EQUIPMENT

SYMBOL	MFG'R	MODEL #	DESCRIPTION	OP. PSI	EMITTER FLOW (GPH)	EMITTER SPACING	MAX. ALLOWED HOZIN. SPACING	BURIAL DEPTH	DETAIL
	(OR APPROVED EQUAL)								
	RAIN BIRD	XFS-CV-06-12	INLINE EMITTER DRIPLINE W/ PRESSURE COMPENSATING, SELF-FLUSHING EMITTERS W/ BUILT IN CHECK VALVE AND COPPER CHIP. USE WITH XF INSERT BARB FITTINGS.	30	0.60	12-INCHES	12-INCHES	6-INCHES	

SYMBOL	MFG'R	MODEL #	DESCRIPTION	REMARKS	DETAIL
	(OR APPROVED EQUAL)				
Ⓕ	NIBCO	4660-S	PVC MANUAL FLUSH BALL VALVE	1/2" SIZE. PLUMB TO PVC EXHAUST HEADER. HEADER SIZE TO MATCH SUPPLY HEADER SIZE. REFER TO PLAN. REFER TO GENERAL IRRIGATION NOTES FOR ADDITIONAL INFORMATION.	
Ⓘ	RAIN BIRD	OPERIND	SYSTEM OPERATION INDICATOR	PLUMB TO DRIP PVC LATERAL FEED LINE. ONE PER DRIP ZONE.	
Ⓐ	RAIN BIRD	ARV050	AIR VACUUM RELIEF VALVE	1/2" SIZE. PLUMB TO DRIP TUBING AT HIGH POINTS OF PLANTING AREAS.	

PRESSURE MAINLINE PIPE SIZING CHART CLASS 315 & SCH. 40 IPS U.S. PVC PLASTIC PIPE (FOR REFERENCE USE ONLY)

PIPE SIZE	MAXIMUM GALLONS PER MINUTE
3/4 -INCH	0 - 6
1 - INCH	7 - 12
1-1/4 - INCHES	13 - 20
1-1/2 - INCHES	21 - 30
2 - INCHES	31 - 50
2-1/2 - INCHES	51 - 70
3 - INCHES	71 - 110

NON-PRESSURE LATERAL PIPE SIZING CHART SCHEDULE 40 IPS U.S. PVC PLASTIC PIPE (FOR REFERENCE USE ONLY)

PIPE SIZE	MAXIMUM GALLONS PER MINUTE
3/4 -INCH	0 - 6
1 - INCH	7 - 12
1-1/4 - INCHES	13 - 20
1-1/2 - INCHES	21 - 30
2 - INCHES	31 - 50
2-1/2 - INCHES	51 - 70
3 - INCHES	71 - 110

CONDUIT/PIPE SLEEVE SIZING CHART (FOR REFERENCE USE ONLY)

SCHEDULE 40 PVC PIPE SLEEVE SIZE	MAXIMUM IRRIGATION PIPE/WIRE CONDUIT SIZE
2 - INCHES	1 - INCH
2-1/2 - INCHES	1-1/4 - INCH
3 - INCHES	1-1/2 - INCH
4 - INCHES	2 - INCHES
6 - INCHES	3 - INCHES
SPARE SLEEVE SIZE TO MATCH LARGEST SLEEVE AT SAME CROSSING LOCATION.	

LANDSCAPE IRRIGATION EQUIPMENT LEGEND

SYMBOL	MFG'R	MODEL #	DESCRIPTION	REMARKS	DETAIL
	(OR APPROVED EQUAL)				
⋈	NIBCO	T-113-BHW	MAINLINE ISOLATION GATE VALVE (2-1/2-INCH AND SMALLER)	MAINLINE SIZE WITH THREADED CONNECTIONS. INSTALL WITHIN PLASTIC VALVE BOX WITH LOCKING COVER.	
⋈	NIBCO	F-619-RWS-SON	MAINLINE ISOLATION GATE VALVE (3-INCH AND LARGER)	MAINLINE SIZE WITH FLANGED CONNECTIONS AND SQUARE NUT. INSTALL WITHIN CONCRETE VALVE BOX AND LOCKING COVER.	
NOT SHOWN	NIBCO	T585HP-66-LF	BALL VALVE AT REMOTE CONTROL VALVE (2-INCH AND SMALLER)	LEAD FREE, BRONZE, THREADED, QUARTER TURN. SIZE TO MATCH SIZE OF ASSOCIATED REMOTE CONTROL VALVE; ONE PER REMOTE CONTROL VALVE.	
	RAIN BIRD	44LRC	QUICK COUPLER VALVE	1-INCH SIZE (NPT); SINGLE SLOT WITH YELLOW TOP. SUPPLY WITH (2) 1-INCH NPT MALE x 3/4-INCH FEMALE KEYS (MODEL #44-K) AND MATCHING 1-INCH MALE HOSE X 1" FEMALE PIPE HOSE SWIVELS (MODEL #SH-2). INSTALL WITHIN PLASTIC VALVE BOX WITH LOCKING COVER.	
C	RAIN MASTER	RME-24-5G	PROPOSED IRRIGATION CONTROLLER	24 STATION EAGLE PLUS IRRIGATION CONTROLLER WITH CELLULAR SERVICE TO BE WALL MOUNTED WITHIN UTILITY ROOM OF NEW RESTROOM BUILDING. CONNECT TO 120 VOLT A.C. POWER (SEE ELECTRICAL DRAWINGS) PER LOCAL CODES.	
	RAINBIRD	100-EFB-CP 1" 150-EFB-CP 1.5" 200-EFB-CP 2"	REMOTE CONTROL VALVE (RCV) FOR ROTOR AND BUBBLER ZONES	BRASS GLOBE VALVE WITH FLOW CONTROL. SIZE AS INDICATED ON PLANS. INSTALL WITHIN PLASTIC VALVE BOX AND BOLT DOWN COVER. INSTALL WITHIN MANIFOLD WHEN GROUPED WITH OTHER VALVES. SIZE MANIFOLD TO MATCH LARGEST LATERAL LINE SIZE. WIRE TO CONTROLLERS AS INDICATED ON THE PLANS.	
	RAINBIRD	100-EFB-CP 1"	DRIP REMOTE CONTROL VALVE (DRCV) FOR DRIP ZONES	BRASS GLOBE VALVE WITH FLOW CONTROL. INSTALL LCRBY100D FILTER AND PSI-H40X-100 PRESSURE REGULATOR. INSTALL WITHIN PLASTIC VALVE BOX AND BOLT DOWN COVER. INSTALL WITHIN MANIFOLD WHEN GROUPED WITH OTHER VALVES. SIZE MANIFOLD TO MATCH LARGEST LATERAL LINE SIZE. WIRE TO CONTROLLERS AS INDICATED ON THE PLANS.	
	PW PIPE	-	PRESSURE MAINLINE PIPE	SIZE AS NOTED ON PLANS. USE CLASS 200 PVC PIPE FOR MAINLINE 3 INCHES AND LARGER; USE DUCTILE IRON GASKETED FITTINGS WITH LEEMCO JOINT RESTRAINTS. INSTALL PIPE WITH COPPER TRACE WIRE ABOVE. MAINLINE COVER DEPTH: 24"	
	PW PIPE	-	PRESSURE MAINLINE PIPE	SIZE AS NOTED ON PLANS. USE SCHEDULE 80 PVC PIPE FOR MAINLINE 2-1/2 INCHES OR SMALLER. INSTALL PIPE WITH COPPER TRACE WIRE ABOVE. MAINLINE COVER DEPTH: 18"	
	PW PIPE	-	NON-PRESSURE LATERAL PIPE	SIZE PER PLAN; SCH. 40 PVC. LATERAL LINE PIPE WITH SCH. 40 PVC SOLVENT WELD FITTINGS, 3/4" MINIMUM SIZE. LATERAL COVER DEPTH 12".	
	PW PIPE	-	IRRIGATION PIPE/ CONTROL WIRES/ SENSOR WIRE SLEEVE	QUANTITIES SHOWN ON PLANS ARE FOR BIDDING PURPOSES ONLY. CONTRACTOR SHALL PROVIDE SIZE AND QUANTITY AS REQUIRED. REFER TO PIPE/WIRE SLEEVING CHART FOR SIZE (THIS SHEET).	
	EXISTING	-	EXISTING QUICK COUPLING VALVE (RCV) TO REMAIN	FIELD VERIFY EXACT LOCATION. PROTECT IN PLACE AS DIRECTED ON PLANS.	N/A
	EXISTING	-	EXISTING QUICK COUPLING VALVE (RCV) TO REMOVE	FIELD VERIFY EXACT LOCATION. REMOVE AS DIRECTED ON PLANS.	
	EXISTING	-	EXISTING REMOTE CONTROL VALVE (RCV) TO REMAIN	FIELD VERIFY EXACT LOCATION AND SIZE. PROTECT IN PLACE AS DIRECTED ON PLANS.	
	EXISTING	-	EXISTING REMOTE CONTROL VALVE (RCV) TO REMOVE	FIELD VERIFY EXACT LOCATION AND SIZE. REMOVE AS DIRECTED ON PLANS.	
	EXISTING TO REMAIN	-	EXISTING PRESSURE MAINLINE PIPE AND CONTROL WIRES TO REMAIN	SIZE PER PLAN. FIELD VERIFY EXACT LOCATION AND SIZE. CUT AND CONNECT AS NOTED ON PLANS. PROTECT IN PLACE.	
	EXISTING TO REMOVE	-	EXISTING PRESSURE MAINLINE PIPE AND CONTROL WIRES TO BE REMOVED	REMOVE WHERE INDICATED ON PLANS. FIELD VERIFY EXACT LOCATION OF EACH PIPE.	
	EXISTING TO REMAIN	-	EXISTING NON-PRESSURE LATERAL PIPE TO REMAIN	SIZE PER PLAN. FIELD VERIFY EXACT LOCATION AND SIZE. CUT AND CONNECT AS NOTED ON PLANS. PROTECT IN PLACE.	
	EXISTING TO REMOVE	-	EXISTING NON-PRESSURE LATERAL PIPE TO BE REMOVED	REMOVE WHERE INDICATED ON PLANS. FIELD VERIFY EXACT LOCATION OF EACH PIPE.	

EXISTING TURF ROTORS

SYMBOL	MFG'R	MODEL #	DESCRIPTION	NOZZLE	OPERATING PSI	RADIUS FEET	FLOW GPM	DETAIL
	(OR APPROVED EQUAL)							
EX	RAIN BIRD	5604-SS	EXISTING POP-UP ROTOR TO REMAIN. FIELD VERIFY EXACT LOCATION.	FIELD VERIFY	-	FIELD VERIFY	FIELD VERIFY	N/A
RM	RAIN BIRD	5604-SS	EXISTING POP-UP ROTOR TO BE REMOVED. FIELD VERIFY EXACT LOCATION.	FIELD VERIFY	-	FIELD VERIFY	FIELD VERIFY	N/A
RL	RAIN BIRD	5604-SS	EXISTING POP-UP ROTOR TO BE RELOCATED. FIELD VERIFY EXACT LOCATION.	FIELD VERIFY	-	FIELD VERIFY	FIELD VERIFY	N/A

OVERHEAD IRRIGATION EQUIPMENT- ROTORS

SYMBOL	MFG'R	MODEL #	DESCRIPTION	NOZZLE	OPER. PSI	RADIUS FEET	FLOW GPM	DETAIL
	(OR APPROVED EQUAL)							
6	RAIN BIRD	6504-PC-SS-06	PART-CIRCLE ROTOR 5-INCH POP-UP SPRINKLER (TURF)	06	50	49'	6.6	
12	RAIN BIRD	6504-PC-SS-12	PART-CIRCLE ROTOR 5-INCH POP-UP SPRINKLER (TURF)	12	50	55'	12.6	
6	RAIN BIRD	6504-FC-SS-12	FULL-CIRCLE ROTOR 5-INCH POP-UP SPRINKLER (TURF)	12	50	55'	12.6	
12	RAIN BIRD	6504-FC-SS-06	FULL-CIRCLE ROTOR 5-INCH POP-UP SPRINKLER (TURF)	06	50	40'	5.6	

MIG
800 HEARST AVENUE
BERKELEY, CA 94710
TEL (510) 845-7549
www.migcom.com

Date:	02-21-2023
Scale:	
Designed:	
Drawn:	CH
Checked:	JE
Proj. Engr:	
File:	

REVISIONS	DESIGN BY	DESIGN DATE	CITY APPR.	APPR. DATE

IMPROVEMENT PLANS FOR

ALL-INCLUSIVE PLAYGROUND AT JOLLYMAN PARK

CUPERTINO CALIFORNIA

FOR CITY OF CUPERTINO USE
PROJECT # _____

PUBLIC WORKS INSPECTOR:

VOICE MAIL:

CITY OF CUPERTINO

L4.00
IRRIGATION LEGEND

SHEET XX

FEBRUARY 2023

Z:\SHARED\BERKELEY\3000_CED\3092 JOLLYMAN PLAY\07 CD\L4.X-IRRIGATION_30992.DWG

ALL-INCLUSIVE PLAYGROUND AT JOLLYMAN PARK / 50% CD / NOT FOR CONSTRUCTION / 02-21-2023

EXISTING UTILITIES NOTES

1. THE CONTRACTOR SHALL AT HIS OWN EXPENSE, VERIFY THE LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES, STRUCTURES, AND SERVICES WHICH MAY AFFECT CONTRACTOR'S OPERATION DURING CONSTRUCTION BEFORE COMMENCING WORK. THE LOCATIONS OF UTILITIES, STRUCTURES, AND SERVICES SHOWN IN THESE PLANS ARE APPROXIMATE ONLY. ANY DISCREPANCIES BETWEEN THE PLANS AND ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO THE OWNER'S REPRESENTATIVE.

2. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN WORKING NEAR OVERHEAD OR UNDERGROUND POWER AND/OR TELEPHONE, WATER, GAS, OIL, SEWER, ETC., SO AS TO SAFELY PROTECT ALL UTILITIES, PERSONNEL, AND EQUIPMENT, AND SHALL BE RESPONSIBLE FOR ALL COSTS AND LIABILITY IN CONNECTION HEREIN.

3. WHERE IT IS NECESSARY TO EXCAVATE IN AREAS OF EXISTING UTILITIES, THE CONTRACTOR SHALL POTHOLE TO CONFIRM EXACT LOCATIONS OF EXISTING UTILITIES.

4. IN EXCAVATING AND WORKING NEAR EXISTING UTILITIES AND SHALL TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE TO THE SAME.

5. IN CASE OF INTERRUPTION OF UTILITIES CAUSED BY THE CONTRACTOR'S OPERATION OR NEGLECT, THE CONTRACTOR SHALL BE RESPONSIBLE TO REPAIR OR RECONSTRUCT DAMAGED ITEMS TO THE OWNER'S AND/OR UTILITY'S REPRESENTATIVE SATISFACTION AT THE CONTRACTOR'S EXPENSE. CONTRACTOR SHALL BE RESPONSIBLE TO HAVE THE UTILITIES IN SERVICE AS SOON AS POSSIBLE.

CONTROLLER NOTES

1. CONTROLLERS SHALL BE INSTALLED AT THE APPROXIMATE LOCATIONS SHOWN ON THE IRRIGATION PLANS. FINAL LOCATION SHALL BE APPROVED BY OWNER'S REPRESENTATIVE. REFER TO THE ELECTRICAL ENGINEERING DWGS FOR THE POINT OF CONNECTION TO THE POWER SOURCE.

2. ALL CABLES AND CONDUCTORS MUST BE INSTALLED IN CONDUIT AND SEALED PER NOTE 7 BELOW. EXTEND CONDUITS ALONG WITH APPROPRIATE CABLES/CONDUCTORS TO LOCATIONS SHOWN ON PLANS. REMOTE CONTROL WIRES SHALL BE DIRECT BURIAL.

3. PRIOR TO CONSTRUCTION, CONTRACTOR TO SCHEDULE A PRE-CONSTRUCTION MEETING WITH THE OWNER REPRESENTATIVE, RAINMASTER SALES REPRESENTATIVE, AND OTHER NECESSARY PARTIES ASSOCIATED WITH THE INSTALLATION OF IRRIGATION EQUIPMENT.

4. IRRIGATION CONTROLLER BY RAINMASTER. ENCLOSURE AND ASSOCIATED EQUIPMENT SHALL BE MANUFACTURED, AND ASSEMBLED BY RAINMASTER.

5. ALL CONDUCTORS AND WIRING SHALL BE NEATLY ARRANGED AND ORDERED SO THAT CLEAR ACCESS TO ALL EQUIPMENT IS MAINTAINED.

6. PROVIDE ENGRAVED SCREW-ON PHENOLIC NAMEPLATE ON DEVICE BOX INDICATING LOCATION AND NAME OF ORIGINATING ELECTRICAL PANEL AND BRANCH CIRCUIT IDENTIFICATION NUMBER.

7. CONTRACTOR SHALL SEAL OFF ENDS OF CONDUIT AFTER INSTALLING CONDUCTORS/WIRES WITH DUCT SEAL, AND CAP ENDS OF ALL SPARE CONDUITS. EXTEND SPARE CONDUITS 24" BEYOND FOUNDATION AND CAP WITH BRASS CAP.

8. PROVIDE QUANTITY OF UNUSED STATIONS (#14) SPARE WIRES FROM CONTROLLER TO A PULLBOX AS INDICATED ON PLANS. CAP SPARE WIRES WITH WIRE NUTS WRAPPED WITH VINYL ELECTRICAL TAPE. LABEL "SPARE". SEE IRRIGATION SPECIFICATIONS.

9. CONTROLLER ASSEMBLY TO BE COVERED BY A 5 YEAR WARRANTY.

10. CONTRACTOR TO FURNISH, INSTALL, AND TEST COMPLETE RAINMASTER AUTOMATIC IRRIGATION CONTROLLER ASSEMBLY CONSISTING OF BUT NOT LIMITED TO CONTROLLER(S), ENCLOSURE, TERMINAL INTERFACE BOARDS, 120 VOLT GFI OUTLET, ON/OFF SWITCH, CABLING, TRANSFORMERS, SURGE ARRESTERS, AND ALL OTHER ITEMS SPECIFIED.

11. REFER TO SHEET L4.0 FOR OTHER IRRIGATION SYSTEM COMPONENTS AND MATERIALS REQUIRED FOR PROJECT.

12. UPON COMPLETION OF INSTALLATION, CONTACT THE RAINMASTER SALES REPRESENTATIVE TO PERFORM A SITE VISIT TO VERIFY THE SYSTEM HAS BEEN INSTALLED PER MANUFACTURER'S INSTRUCTIONS. THE SYSTEM WILL NOT BE ACCEPTED UNTIL THE REPRESENTATIVE HAS INDICATED THAT THE SYSTEM HAS BEEN INSTALLED CORRECTLY AND IS OPERATING SATISFACTORILY. CONTRACTOR TO PROVIDE PROGRAMMING OF CONTROLLER, WITH TRAINING (AT NO CHARGE) FROM THE RAINMASTER SALES REPRESENTATIVE.

13. CONTRACTOR SHALL PROVIDE TWO KEYS FOR EACH OF THE THE CONTROLLER ENCLOSURES, AND SECURE THE ENCLOSURES WITH THE LOCK DURING CONSTRUCTION AND MAINTENANCE. LOCKS SHALL BE KEYED TO THE OWNER'S NUMBER ASSIGNED. IMMEDIATELY PRIOR TO PROJECT ACCEPTANCE, THE CONTRACTOR SHALL TURN THE KEYS OVER TO THE CITY.

IRRIGATION NOTES

1. THE EXISTING PRESSURE AT THE WATER METER RANGES FROM 60 TO 65 PSI. THE IRRIGATION SYSTEM IS DESIGNED TO OPERATE AT 65 PSI AFTER THE EXISTING BOOSTER PUMP.

2. ALL WORK SHALL CONFORM TO LOCAL AND STATE CODES AND ORDINANCES. ALL IRRIGATION WORK SHALL CONFORM TO THE PARKS AND RECREATION LANDSCAPE STANDARDS OF, CITY OF CUPERTINO AND THE PLANS AND DETAILS FOR THIS PROJECT.

3. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND WATER PRESSURE, IF ANY DISCREPANCY EXISTS BETWEEN DESIGN AND ACTUAL FIELD CONDITIONS, NOTIFY THE PROJECT ENGINEER PRIOR TO ANY INSTALLATION.

4. THE CONTRACTOR SHALL NOTIFY THE CITY ENGINEER A MINIMUM OF 48 HOURS PRIOR TO START OF ANY IRRIGATION WORK.

5. CONTROL WIRES SHALL BE 14 GAUGE (RED). SEPARATE WIRES SHALL RUN FROM THE CONTROLLER TO EACH VALVE. COMMON GROUND WIRES SHALL BE 12 GAUGE (WHITE). ALL CONTROL WIRES LEADING FROM VALVES TO CONTROLLER MUST BE LOOPED UP A MINIMUM OF THREE (3) FEET INTO EVERY VALVE BOX INTERCEPTED ON THE WAY TO THE CONTROLLER.

6. SPLICES IN THE FIELD SHALL BE MADE EXCLUSIVELY WITH RAINBIRD "SNAP-TITE" CONNECTORS OR GLOBAL SPAN PRODUCTS, INC. "SPLICE KOTE" IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS OR APPROVED EQUAL.

7. ALL PLASTIC FITTING SHALL BE A MINIMUM OF 18" APART TO FACILITATE REMOVAL AND REPLACEMENT OF INDIVIDUAL FITTINGS.

8. TRENCHING DEPTHS FOR IRRIGATION PIPES ARE AS FOLLOWS: MAIN = 24", ALL LATERALS = 18". ALL DIMENSIONS ARE FROM THE TOP OF THE PIPE. TRENCHING DEPTHS OF POTABLE WATER MAIN SHALL BE 24".

9. ALL MAINS, LATERALS AND CONTROL WIRES SHALL BE INSTALLED IN CLASS 315 P.V.C. SLEEVES (OF APPROPRIATE SIZE) UNDER ALL A.C. AND P.C.C. PAVEMENT.

10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE AND EFFECTIVE COVERAGE OF ALL PLANTED AREAS, BALANCE EACH SYSTEM TO OPTIMUM COVERAGE, ADJUST EACH ARC, RADIUS AND NOZZLE AS DIRECTED ON SITE BY THE ENGINEER.

11. THE GENERAL CONTRACTOR SHALL COORDINATE THEIR PORTION OF WORK WITH THE UNDERGROUND ELECTRICAL SUB-CONTRACTOR TO MINIMIZE CONFLICTS.

12. GATE VALVES SHALL BE INSTALLED IN A ROUND CONCRETE BOX WITH LOCKABLE STEEL LID, INSTALLED WITH 2 CUBIC FEET OF DRAIN ROCK.

13. THESE IRRIGATION DRAWINGS ARE DIAGRAMMATIC AND INDICATIVE OF THE WORK TO BE INSTALLED. ALL PIPING, VALVES, ETC. SHOWN WITHIN PAVED AREAS IS FOR CLARITY ONLY AND ARE TO BE INSTALLED WITHIN NON-TURF PLANTING AREAS WHERE POSSIBLE.

14. ALL MAINS, LATERALS AND CONTROL WIRES LOCATED UNDER PAVEMENT SHALL BE INSTALLED IN SLEEVES. REFER TO SPECIFICATION 328400 FOR SLEEVE SIZE AND MATERIAL.

15. THE CONTRACTOR IS REQUIRED TO NOTIFY AND COORDINATE LANDSCAPE IRRIGATION CONTRACT WORK WITH ALL APPLICABLE CONTRACTORS AND TRADES FOR THE LOCATION AND INSTALLATION OF PIPE, CONDUIT, AND SLEEVES THROUGH OR UNDER WALLS, ROADWAYS, PAVING, STRUCTURES, ETC., BEFORE CONSTRUCTION. IN THE EVENT THESE NOTIFICATIONS ARE NOT PERFORMED, THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ALL REQUIRED REVISIONS.

16. IRRIGATION COMPONENTS SHOWN WITHIN PAVED AREAS ARE FOR GRAPHIC CLARITY ONLY. PLACE ALL PIPING, VALVES, QUICK COUPLING VALVES, AND OTHER IRRIGATION COMPONENTS WITHIN ADJACENT PLANTING AREAS EXCEPT WHERE PIPES CROSS PAVING OR AS NOTED. AVOID ANY CONFLICTS BETWEEN THE IRRIGATION SYSTEM AND TREES, PLANTINGS, SITE FEATURES AND UTILITIES INCLUDING STORM DRAINAGE.

17. PRIOR TO ANY TRENCHING THE CONTRACTOR SHALL ASCERTAIN THE LOCATION OF ALL NEW AND EXISTING UNDERGROUND UTILITY LINES. CALL 811 A MINIMUM OF FORTY-EIGHT (48) HOURS PRIOR TO THE START OF CONSTRUCTION.

18. THE INTENT OF THIS IRRIGATION SYSTEM IS TO PROVIDE THE MINIMUM AMOUNT OF WATER TO MAINTAIN GOOD PLANT HEALTH, APPEARANCE AND REASONABLE GROWTH. THE AMOUNT OF SUPPLEMENTAL WATER A PLANT REQUIRES IS DEPENDENT ON SOIL TYPE, PLANT MATERIAL, ROOTING DEPTH, CLIMATE, SEASONAL CHANGES, SLOPES, MOUNDS, SUN, SHADE AND WIND. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ADJUST THE IRRIGATION SCHEDULE AND ET VARIABLES AS NEEDED. IN ADDITION, THE CONTRACTOR SHALL PROVIDE SUPPLEMENTAL WATER TO ACCOMMODATE SPECIAL WATERING NEEDS OF PLANT MATERIAL THROUGH THE MAINTENANCE PERIOD. ACTUAL STATION RUN TIMES MAY VARY IN ACCORDANCE WITH VARYING SITE CONDITIONS.

19. ALL VALVES PROVIDING IRRIGATION TO SLOPES AREAS SHALL BE SCHEDULED IN MULTIPLE, SHORT CYCLES TO HELP ELIMINATE IRRIGATION WATER RUNOFF.

20. CONTRACTOR SHALL ADJUST THE PLACEMENT OF THE DRIPLINE LAYOUT AS PER ACTUAL FIELD CONDITIONS TO ACHIEVE FULL COVERAGE OF ALL PLANTED AREAS. THE CONTRACTOR WILL BE RESPONSIBLE OF INSTALLING ADDITIONAL DRIPLINE, AS NEEDED, TO PROVIDE ADEQUATE COVERAGE, AT NO ADDITIONAL COST TO THE CLIENT. REFER TO IRRIGATION EQUIPMENT LEGEND FOR MAXIMUM ALLOWED VERTICAL DRIPLINE SPACING.

21. SUBSURFACE EMITTER FLOW RATE, EMITTER SPACING AND LATERAL SPACING IS BASED ON TYPICAL SOILS ENCOUNTERED IN THE AREA. THE CONTRACTOR SHALL MAKE ANY MODIFICATION TO EMITTER FLOW RATE, EMITTER SPACING, AND LATERAL SPACING AS REQUIRED TO COMPLY WITH MANUFACTURER'S RECOMMENDATIONS FOR AN EVEN WETTED PATTERN, BASED ON ACTUAL SOIL ANALYSIS. REFER TO DRIPLINE MANUFACTURER RECOMMENDATIONS FOR ADDITIONAL INFORMATION. FINAL EMITTER SPACING AND FLOW RATE TO BE APPROVED BY THE CLIENT REPRESENTATIVE.

22. DRAINAGE OF IRRIGATION WATER THROUGH DRIP EMITTERS WILL NOT BE ALLOWED. DURING THE COURSE OF CONSTRUCTION, THE CONTRACTOR SHALL INSTALL ADDITIONAL IN-LINE CHECK VALVES AS REQUIRED IN ANY AREA WHERE EMISSION DEVICES SHOW SIGNS OF DRAINAGE AFTER IRRIGATION SYSTEM HAS OPERATED FROM AN ON TO OFF POSITION. INSTALLATION OF ADDITIONAL IN-LINE CHECK VALVES SHALL BE INCLUDED IN THE BID PRICE WITHOUT ADDITIONAL COST TO THE CLIENT.

23. CONTRACTOR SHALL ADJUST THE DRIPLINE LAYOUT, WHEN PLANTER SLOPE IS GREATER THAN 5 PERCENT,TO PROVIDE LATERAL ROW SPACING THAT IS 25 PERCENT GREATER WITHIN THE BOTTOM ONE-THIRD OF THE SLOPE.

24. LOCATIONS AND THE QUANTITIES OF FLUSH VALVES AND AIR/VACUUM RELIEF VALVES (AVRV) SHOWN ON PLANS ARE APPROXIMATE. CONTRACTOR IS RESPONSIBLE FOR VERIFYING HIGHEST POINTS OF EACH HYDROZONE AND LOCATING AVRV'S AS REQUIRED AND FOR INSTALLING ADDITIONAL FLUSH VALVES, AS NEEDED, ACCORDING TO MANUFACTURER'S GALLONS PER HOUR REQUIREMENTS PER HYDROZONE AT NO ADDITIONAL COST TO THE CLIENT

25. MAINLINE PIPE SIZE DOWNSTREAM OF LAST PIPE SIZE INDICATED TO BE THE SAME AS INLET OF PRODUCT IT SUPPLIES, BUT NOT LESS THAN 1-INCH. LATERAL PIPE SIZES DOWNSTREAM OF LAST PIPE SIZE CALL OUT SHALL BE SAME AS THE LAST PIPE SIZE CALLED OUT, BUT NO LESS THAN 3/4-INCH.

26. ALL IRRIGATION EQUIPMENT SHALL BE AS LISTED OR EQUAL AS APPROVED BY THE CITY'S REPRESENTATIVE.

27. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY AND COORDINATE AND PROVIDE THE FINAL CONNECTION OF THE CONTROLLER TO ITS DEDICATED POWER SOURCE. ALL ELECTRICAL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR AND SHALL CONFORM TO THE LATEST EDITION OF THE N.E.C. AND ALL STATE AND LOCAL CODES AND REGULATIONS. ALL ELECTRICAL WORK SHALL BE REQUIRED TO PASS CITY INSPECTION.

28. SEE IRRIGATION DETAILS, TECHNICAL SPECIFICATIONS AND PLANTING PLANS FOR ADDITIONAL REQUIREMENTS AND INFORMATION.

29. ALL TRENCHING SHALL COMPLY WITH TREE PRESERVATION REQUIREMENTS. SEE PLANTING PLANS FOR ADDITIONAL INFORMATION.

EXISTING IRRIGATION NOTES

1. IRRIGATION DESIGN IS BASED ON CITY PROVIDED INFORMATION AND MAY NOT REFLECT ACTUAL FIELD CONDITIONS. CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE OF SITE CONDITIONS WHICH MAY PREVENT INSTALLATION OF WORK PER PLANS, DETAILS AND SPECIFICATIONS. ALL EXISTING IRRIGATION SYSTEM LAYOUT (IF ANY) SHALL BE FIELD VERIFIED WITH THE OWNER'S REPRESENTATIVE AT THE START OF WORK.

2. CONTRACTOR SHALL FIELD VERIFY (POTHOLE IF NECESSARY) SIZE, MATERIAL, LOCATION AND DEPTH OF ALL MAINLINES THAT ARE TO BE CONNECTED TO OR CROSSED AT THE START OF WORK AND PROVIDE FINDINGS TO OWNER'S REPRESENTATIVE IN WRITING PRIOR TO THE START OF DEMOLITION.

3. THE CONTRACTOR SHALL FAMILIARIZE THEMSELVES WITH ANY EXISTING IRRIGATION SYSTEMS DIRECTLY ADJACENT AND OUTSIDE OF THE LIMIT-OF-WORK AREAS PRIOR TO THE START OF WORK. CONTRACTOR SHALL DOCUMENT ANY BROKEN OR MALFUNCTIONING PIECE OF IRRIGATION EQUIPMENT AND PROVIDE THE OWNER'S REPRESENTATIVE WITH A WRITTEN REPORT. ANY REPAIRS REQUIRED TO COMPONENTS NOT NOTED IN THE REPORT DURING OR AFTER DEMOLITION IS COMPLETED SHALL BECOME THE RESPONSIBILITY OF THE CONTRACTOR AND ALL REPAIR WORK SHALL BE TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE.

4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE EXISTING IRRIGATION SYSTEM TO REMAIN CAUSED BY EITHER THEIR OR THEIR SUB-CONTRACTORS OPERATIONS OR NEGLECT. IN CASE OF DAMAGE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PERFORMING ANY REQUIRED REPAIRS AS SOON AS POSSIBLE. REPAIRS SHALL BE THE DIRECTION OF THE OWNER'S AUTHORIZED REPRESENTATIVE AND SHALL BE TO THE EXACT DUPLICATE OF ORIGINAL WORK OR HIGHER QUALITY.

5. EXISTING IRRIGATION OUTSIDE OF AREAS OF WORK (IF ANY) SHALL REMAIN FULLY OPERATIONAL. NO DISRUPTION OF THE EXISTING IRRIGATION SYSTEM'S WATERING OR OPERATION SHALL BE ALLOWED DURING THE COURSE OF CONSTRUCTION. THE EXISTING IRRIGATION SYSTEM SHALL MAINTAIN AUTOMATIC PROGRAMMED WATERING SCHEDULES THROUGHOUT CONSTRUCTION AND SHALL BE SUPPLEMENTED BY MANUAL WATERING ONLY WHEN REQUIRED OR REQUESTED BY THE OWNER'S AUTHORIZED REPRESENTATIVE.

6. PROTECT ALL EXISTING MAINLINE, CONTROL VALVES AND WIRES, AND IRRIGATION EQUIPMENT, INCLUDING BY NOT LIMITED TO PRESSURE REDUCING VALVES, MASTER VALVES, FLOW SENSORS, ETC., NECESSARY FOR THE OPERABILITY OF THE EXISTING IRRIGATION SYSTEM TO REMAIN. REMOVE EXISTING IRRIGATION EQUIPMENT ONLY WHEN REQUIRED AS PART OF NEW IRRIGATION SYSTEM INSTALLATION.

7. ANY EXISTING IRRIGATION CONTROL VALVES CONNECTED TO EXISTING CONTROLLER(S) SHALL REMAIN CONNECTED UNLESS OTHERWISE NOTED ON PLANS. CONFIRM PROPER EXISTING CONTROLLER OPERATION WITH CITY'S REPRESENTATIVE UPON COMPLETION OF WORK.

8. EXISTING EQUIPMENT MAY BE RELOCATED FROM THE AREA OF WORK IF REQUIRED IN ORDER TO MAINTAIN OPERABILITY OF THE EXISTING IRRIGATION SYSTEM DURING AND AFTER CONSTRUCTION. RELOCATE EXISTING EQUIPMENT ONLY AS REQUIRED TO REMAIN FUNCTIONAL AND AS PER CITY'S REPRESENTATIVE APPROVAL.

811 Know what's **below** **Call** before you dig.

MIG
800 HEARST AVENUE
BERKELEY, CA 94710
TEL (510) 845-7549
www.migcom.com

Date:	02-21-2023					
Scale:						
Designed:						
Drawn:	CH					
Checked:	JE					
Proj. Engr:		△	REVISIONS	DESIGN BY	DESIGN DATE	CITY APPR.	APPR. DATE
File:							

IMPROVEMENT PLANS FOR

ALL-INCLUSIVE PLAYGROUND AT JOLLYMAN PARK

CUPERTINO CALIFORNIA

FOR CITY OF CUPERTINO USE
PROJECT # _____

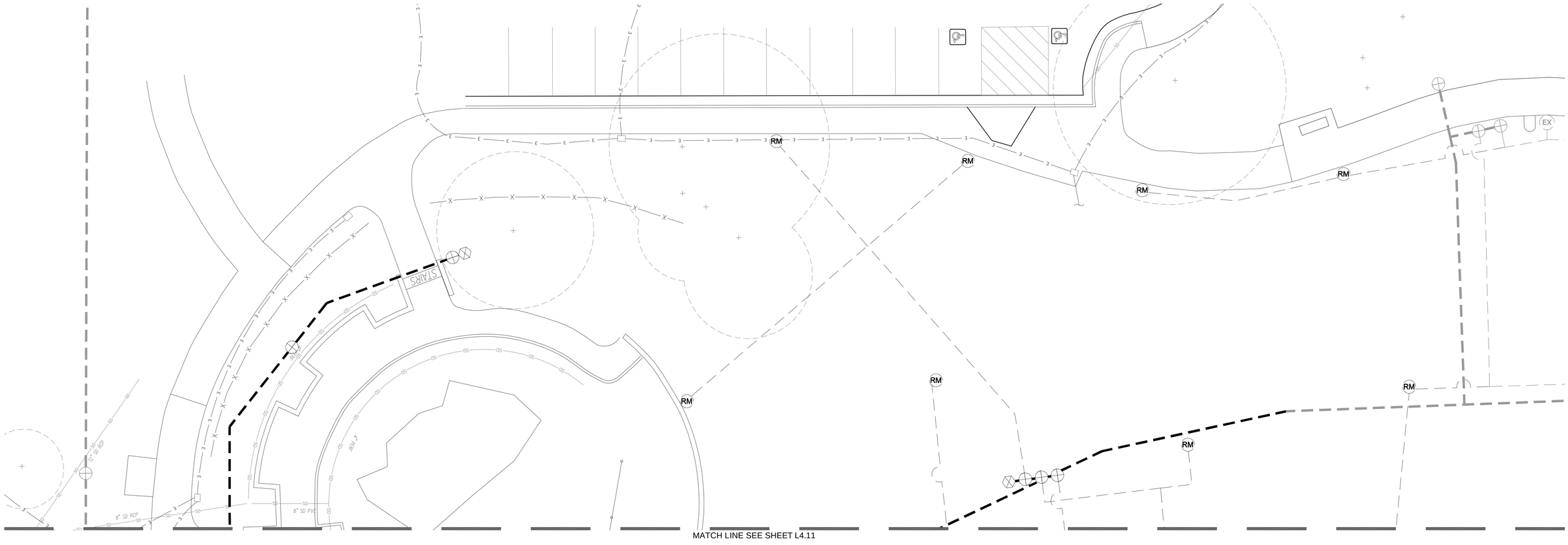
PUBLIC WORKS INSPECTOR:

VOICE MAIL:

CITY OF CUPERTINO

L4.01
IRRIGATION NOTES

SHEET XX



MATCH LINE SEE SHEET L4.11

GENERAL IRRIGATION NOTES

1. REFER TO THE IRRIGATION EQUIPMENT LEGEND ON L4.00 AND THE GENERAL IRRIGATION NOTES ON SHEET L4.01 FOR ADDITIONAL INFO.
2. REFER TO THE IRRIGATION DEMOLITION PLANS ON SHEETS L4.10 & L4.11.
3. REFER TO THE IRRIGATION PLANS ON SHEETS L4.12 & L4.13.
4. REFER TO THE IRRIGATION DETAILS ON SHEETS L4.50, L4.51& L4.52 FOR ADDITIONAL INFORMATION.
5. ALL MAINLINE, LATERAL PIPE, VALVES, AND OTHER IRRIGATION SYSTEM APPURTENANCES SHOWN IN PAVED AREA IS FOR GRAPHICAL CLARITY ONLY. CONTRACTOR TO PLACE MAINLINE, LATERAL PIPE, VALVES AND ALL IRRIGATION APPURTENANCES WITHIN ADJACENT PLANTING AREAS UNLESS NOTED OTHERWISE ON THE PLANS.
6. CONTRACTOR SHALL ROUTE ALL IRRIGATION MAINLINE, LATERAL PIPE AND SLEEVES AROUND ALL SERVICE LINES, UTILITIES, STORM DRAINAGE FACILITIES, ETC. IN ORDER TO AVOID ANY CONFLICTS IN THE FIELD. INSTALL IRRIGATION PIPE BELOW STORM DRAINAGE PIPES WHERE REQUIRED TO MAINTAIN THE MINIMAL DEPTH REQUIREMENTS.

GENERAL IRRIGATION LEGEND

SLEEVING: REFER TO IRRIGATION LEGEND AND CHART ON SHEET L4.00 FOR TYPE AND SIZE.

(#)M MAINLINE PIPE SLEEVE QUANTITY
(#)L LATERAL PIPE SLEEVE QUANTITY
(#)W WIRE/CONDUIT SLEEVE QUANTITY
(#)S EMPTY(SPARE) SLEEVE QUANTITY

VALVE CALLOUT

CONTROLLER/STATION →	A17	Z1 ← HYDROZONE DESCRIPTION*
FLOW (GPM) →	5.4	1" ← VALVE SIZE
OPERATING PRESSURE (PSI) →	30	DRP ← IRRIGATION METHOD (BELOW)
HYDROZONE WATER-USE →	L	0.85 ← PRECIP. RATE (IN./HR.)
	631	← HYRDOZONE AREA (SF)

*REFER TO HYDROZONE CHART

IRRIGATION METHOD:

RWS - TREE ROOT WATERING SYSTEM
DRP - SUB-SURFACE DRIP GRID
ROT - POP-UP ROTOR
SPR - POP-UP SPRAY

1-1/2" PIPE SIZING CALLOUT

0 5' 10' 20'

NORTH

811 Know what's **below** **Call** before you dig.

MIG
800 HEARST AVENUE BERKELEY, CA 94710
TEL (510) 845-7549
www.migcom.com

Date:	02-21-2023
Scale:	
Designed:	
Drawn:	CH
Checked:	JE
Proj. Engr:	
File:	

REVISIONS	DESIGN BY	DESIGN DATE	CITY APPR.	APPR. DATE

IMPROVEMENT PLANS FOR

ALL-INCLUSIVE PLAYGROUND AT JOLLYMAN PARK

CUPERTINO CALIFORNIA

FOR CITY OF CUPERTINO USE
PROJECT # _____

PUBLIC WORKS INSPECTOR:

VOICE MAIL:

CITY OF CUPERTINO

L4.10
IRRIGATION DEMOLITION PLAN - WEST

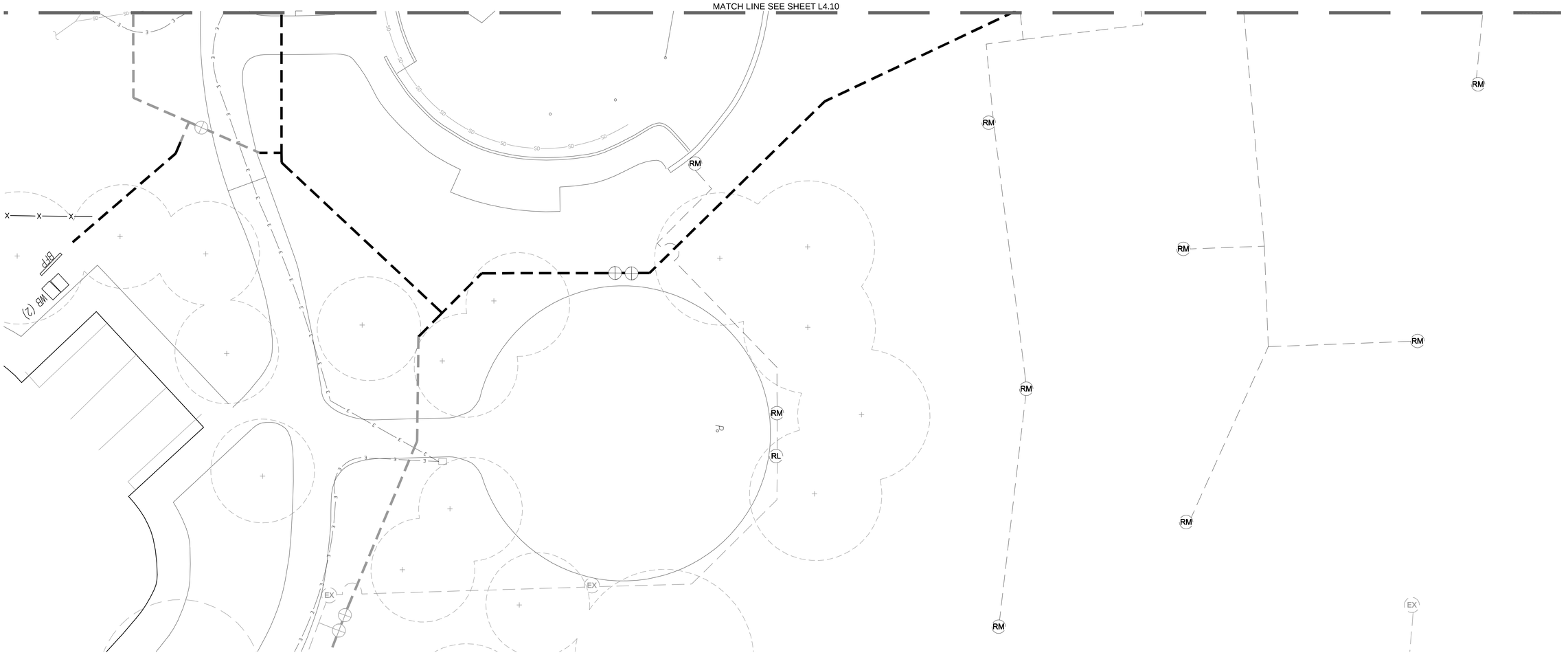
SHEET XX

FEBRUARY 2023

Z:\SHARED\BERKELEY\3000_CED\3.30902 JOLLYMAN PLAY\07 CD\L4 X-IRRIGATION_DEMO_30902.DWG

ALL-INCLUSIVE PLAYGROUND AT JOLLYMAN PARK / 50% CD / NOT FOR CONSTRUCTION / 02-21-2023

MATCH LINE SEE SHEET L4.10



GENERAL IRRIGATION NOTES

1. REFER TO THE IRRIGATION EQUIPMENT LEGEND ON L4.00 AND THE GENERAL IRRIGATION NOTES ON SHEET L4.01 FOR ADDITIONAL INFO.
2. REFER TO THE IRRIGATION DEMOLITION PLANS ON SHEETS L4.10 & L4.11.
3. REFER TO THE IRRIGATION PLANS ON SHEETS L4.12 & L4.13.
4. REFER TO THE IRRIGATION DETAILS ON SHEETS L4.50, L4.51& L4.52 FOR ADDITIONAL INFORMATION.
5. ALL MAINLINE, LATERAL PIPE, VALVES, AND OTHER IRRIGATION SYSTEM APPURTENANCES SHOWN IN PAVED AREA IS FOR GRAPHICAL CLARITY ONLY. CONTRACTOR TO PLACE MAINLINE, LATERAL PIPE, VALVES AND ALL IRRIGATION APPURTENANCES WITHIN ADJACENT PLANTING AREAS UNLESS NOTED OTHERWISE ON THE PLANS.
6. CONTRACTOR SHALL ROUTE ALL IRRIGATION MAINLINE, LATERAL PIPE AND SLEEVES AROUND ALL SERVICE LINES, UTILITIES, STORM DRAINAGE FACILITIES, ETC. IN ORDER TO AVOID ANY CONFLICTS IN THE FIELD. INSTALL IRRIGATION PIPE BELOW STORM DRAINAGE PIPES WHERE REQUIRED TO MAINTAIN THE MINIMAL DEPTH REQUIREMENTS.

GENERAL IRRIGATION LEGEND

SLEEVING: REFER TO IRRIGATION LEGEND AND CHART ON SHEET L4.00 FOR TYPE AND SIZE.

(#)M	MAINLINE PIPE SLEEVE QUANTITY
(#)L	LATERAL PIPE SLEEVE QUANTITY
(#)W	WIRE/CONDUIT SLEEVE QUANTITY
(#)S	EMPTY(SPARE) SLEEVE QUANTITY

VALVE CALLOUT

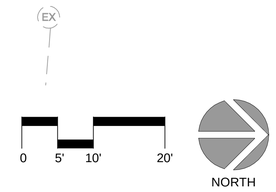
CONTROLLER/STATION →	A17	Z1	← HYDROZONE DESCRIPTION*
FLOW (GPM) →	5.4	1"	← VALVE SIZE
OPERATING PRESSURE (PSI) →	30	DRP	← IRRIGATION METHOD (BELOW)
HYDROZONE WATER-USE →	L	0.85	← PRECIP. RATE (IN./HR.)
	631		← HYRDOZONE AREA (SF)

*REFER TO HYDROZONE CHART

IRRIGATION METHOD:

- RWS - TREE ROOT WATERING SYSTEM
- DRP - SUB-SURFACE DRIP GRID
- ROT - POP-UP ROTOR
- SPR - POP-UP SPRAY

1-1/2" PIPE SIZING CALLOUT



811 Know what's **below** **Call** before you dig.

MIG
800 HEARST AVENUE
BERKELEY, CA 94710
TEL (510) 845-7549
www.migcom.com

Date:	02-21-2023
Scale:	
Designed:	
Drawn:	CH
Checked:	JE
Proj. Engr:	
File:	

REVISIONS	DESIGN BY	DESIGN DATE	CITY APPR.	APPR. DATE

IMPROVEMENT PLANS FOR

ALL-INCLUSIVE PLAYGROUND AT JOLLYMAN PARK

CUPERTINO CALIFORNIA

FOR CITY OF CUPERTINO USE
PROJECT # _____

PUBLIC WORKS INSPECTOR:

VOICE MAIL:

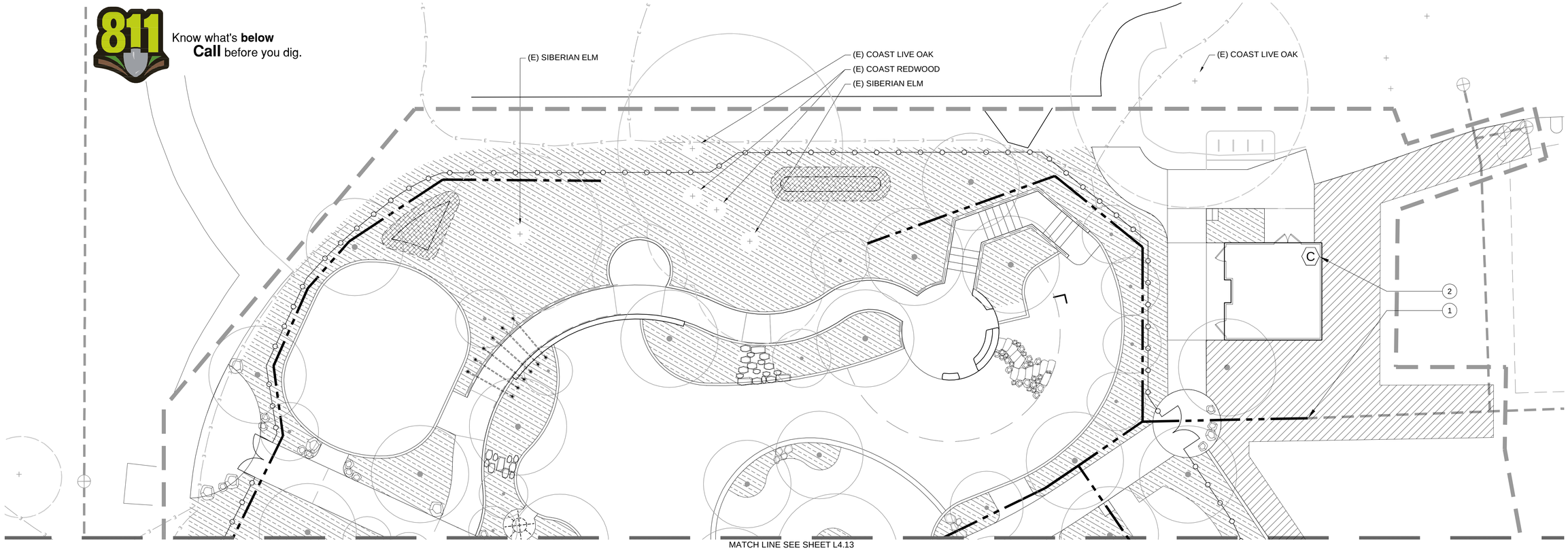
CITY OF CUPERTINO

L4.11
IRRIGATION DEMOLITION PLAN - EAST

SHEET XX

FEBRUARY 2023

811 Know what's **below** **Call** before you dig.



MATCH LINE SEE SHEET L4.13

GENERAL IRRIGATION NOTES

1. REFER TO THE IRRIGATION EQUIPMENT LEGEND ON L4.00 AND THE GENERAL IRRIGATION NOTES ON SHEET L4.01 FOR ADDITIONAL INFO.
2. REFER TO THE IRRIGATION DEMOLITION PLANS ON SHEETS L4.10 & L4.11.
3. REFER TO THE IRRIGATION PLANS ON SHEETS L4.12 & L4.13.
4. REFER TO THE IRRIGATION DETAILS ON SHEETS L4.50, L4.51& L4.52 FOR ADDITIONAL INFORMATION.
5. ALL MAINLINE, LATERAL PIPE, VALVES, AND OTHER IRRIGATION SYSTEM APPURTENANCES SHOWN IN PAVED AREA IS FOR GRAPHICAL CLARITY ONLY. CONTRACTOR TO PLACE MAINLINE, LATERAL PIPE, VALVES AND ALL IRRIGATION APPURTENANCES WITHIN ADJACENT PLANTING AREAS UNLESS NOTED OTHERWISE ON THE PLANS.
6. CONTRACTOR SHALL ROUTE ALL IRRIGATION MAINLINE, LATERAL PIPE AND SLEEVES AROUND ALL SERVICE LINES, UTILITIES, STORM DRAINAGE FACILITIES, ETC. IN ORDER TO AVOID ANY CONFLICTS IN THE FIELD. INSTALL IRRIGATION PIPE BELOW STORM DRAINAGE PIPES WHERE REQUIRED TO MAINTAIN THE MINIMAL DEPTH REQUIREMENTS.

GENERAL IRRIGATION LEGEND

SLEEVING: REFER TO IRRIGATION LEGEND AND CHART ON SHEET L4.00 FOR TYPE AND SIZE.

(#)M	MAINLINE PIPE SLEEVE QUANTITY
(#)L	LATERAL PIPE SLEEVE QUANTITY
(#)W	WIRE/CONDUIT SLEEVE QUANTITY
(#)S	EMPTY(SPARE) SLEEVE QUANTITY

VALVE CALLOUT

CONTROLLER/STATION →	A17	Z1	← HYDROZONE DESCRIPTION*
FLOW (GPM) →	5.4	1"	← VALVE SIZE
OPERATING PRESSURE (PSI) →	30	DRP	← IRRIGATION METHOD (BELOW)
HYDROZONE WATER-USE →	L	0.85	← PRECIP. RATE (IN./HR.)
	631		← HYRDOZONE AREA (SF)

*REFER TO HYDROZONE CHART

IRRIGATION METHOD:

RWS - TREE ROOT WATERING SYSTEM
DRP - SUB-SURFACE DRIP GRID
ROT - POP-UP ROTOR
SPR - POP-UP SPRAY

1-1/2" PIPE SIZING CALLOUT

LANDSCAPE IRRIGATION KEYED NOTES

1	POINT OF CONNECTION TO EXISTING IRRIGATION MAIN AND WIRING:
	CONNECT TO EXISTING 3" PVC MAIN LINE PIPE AND LOW VOLTAGE CONTROL WIRES AT THIS LOCATION WITH NEW MAIN LINE PIPE AND CONTROL WIRES. ROUTE NEW PVC MAIN AND CONTROL WIRES AS INDICATED ON THE IRRIGATION PLANS. INSTALL PER DETAILS.
2	AUTOMATIC IRRIGATION CONTROLLER 'C':
	LOCATION OF PROPOSED WALL MOUNTED IRRIGATION CONTROLLER. INSTALL PER DETAIL WITHIN UTILITY ROOM. CONNECT TO 120 VOLT POWER SUPPLY PER ELECTRICAL DRAWINGS. FINAL LOCATION OF CONTROLLER PER CLIENT. REFER TO GENERAL IRRIGATION NOTES FOR ADDITIONAL REQUIREMENTS.

0 5' 10' 20'

NORTH

IRRIGATION ZONE LEGEND

ZONE 1 - TURF GRASS AT PLAY FIELD (SOD)- HIGH WATER USE
- POP-UP ROTOR IRRIGATION.

ZONE 2 - SHRUBS AND GROUNDCOVER- LOW WATER USE
- SUB SURFACE DRIP GRID IRRIGATION.

ZONE 3 - SHRUBS AND GROUNDCOVER- MEDIUM WATER USE
- SUB SURFACE DRIP GRID IRRIGATION.

ZONE 4 - BIO RETENTION AREA PLANTING- LOW WATER USE
- SUBSURFACE DRIP GRID IRRIGATION.

ZONE 5 - VINES - MEDIUM WATER USE
- FLOOD BUBBLER IRRIGATION (1 PER VINE).

ZONE 6 - TREES - LOW WATER USE
- FLOOD BUBBLER IRRIGATION (2 PER TREE).

ZONE 7 - TREES - MEDIUM WATER USE
- FLOOD BUBBLER IRRIGATION (2 PER TREE).

MWELO REQUIRED STATEMENTS & CERTIFICATION:

1. A DIAGRAM OF THE IRRIGATION PLAN SHOWING HYDROZONES SHALL BE KEPT WITH THE IRRIGATION CONTROLLER FOR SUBSEQUENT MANAGEMENT PURPOSES.
2. A CERTIFICATE OF COMPLETION SHALL BE FILLED OUT AND CERTIFIED BY EITHER THE DESIGNER OF THE LANDSCAPE PLANS, IRRIGATION PLANS, OR THE LICENSED LANDSCAPE CONTRACTOR FOR THE PROJECT.
3. AN IRRIGATION AUDIT REPORT SHALL BE COMPLETED AT THE TIME OF FINAL INSPECTION.

MWELO IRRIGATION DESIGN PLAN REQUIRED NOTES:

1. PRESSURE REGULATING DEVICES ARE REQUIRED IF WATER PRESSURE IS BELOW OR EXCEEDS THE RECOMMENDED PRESSURE OF THE SPECIFIED IRRIGATION DEVICES.
2. CHECK VALVES OR ANTI-DRAIN VALVES ARE REQUIRED ON ALL SPRINKLER HEADS WHERE LOW POINT DRAINAGE COULD OCCUR.

"I AGREE TO COMPLY WITH THE REQUIREMENTS OF THE WATER EFFICIENT LANDSCAPE ORDINANCE AND SUBMIT A COMPLETE LANDSCAPE DOCUMENTATION PACKAGE."

SIGNATURE DATE

"I HAVE COMPLIED WITH THE CRITERIA OF THE ORDINANCE AND APPLIED THEM FOR THE EFFICIENT USE OF WATER IN THE LANDSCAPE DESIGN PLANS."

MIG
800 HEARST AVENUE BERKELEY, CA 94710
TEL (510) 845-7549
www.migcom.com

Date:	02-21-2023
Scale:	
Designed:	
Drawn:	CH
Checked:	JE
Proj. Engr:	
File:	

REVISIONS	DESIGN BY	DESIGN DATE	CITY APPR.	APPR. DATE

IMPROVEMENT PLANS FOR

ALL-INCLUSIVE PLAYGROUND AT JOLLYMAN PARK

CUPERTINO CALIFORNIA

FOR CITY OF CUPERTINO USE
PROJECT # _____

PUBLIC WORKS INSPECTOR:

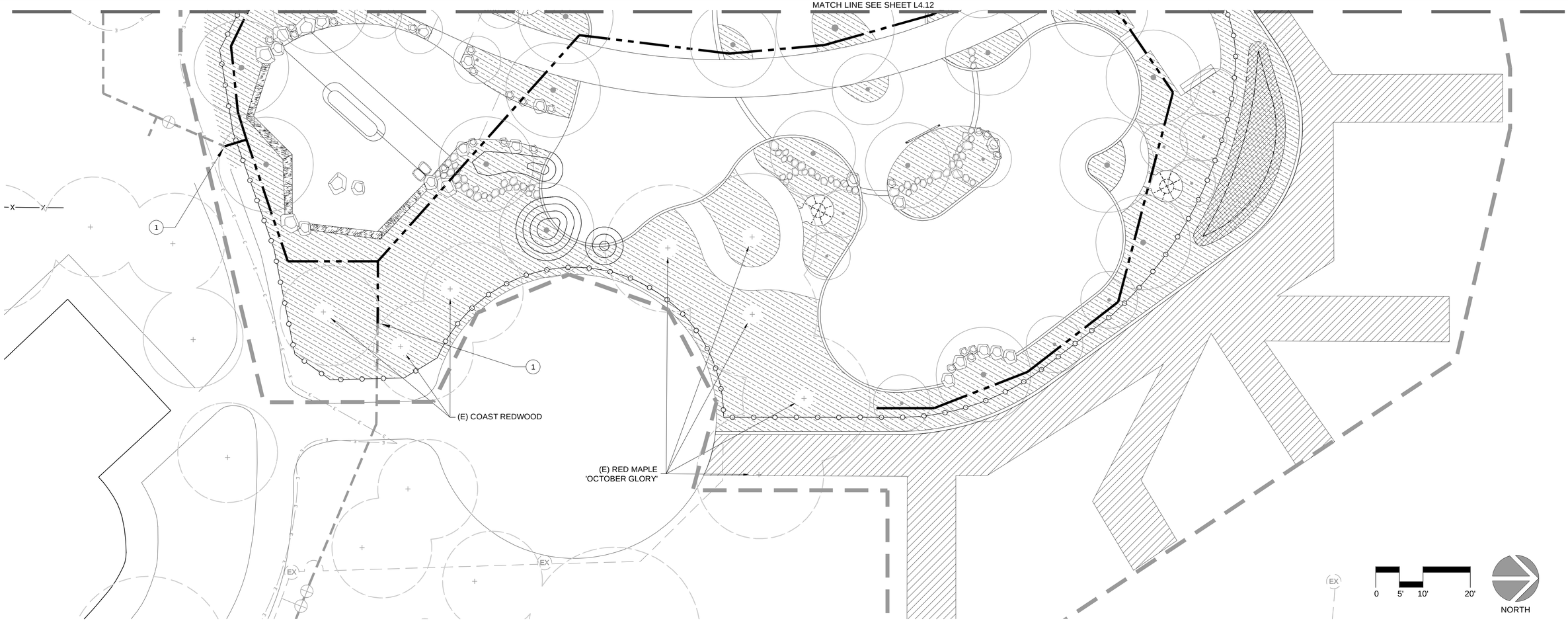
VOICE MAIL:

CITY OF CUPERTINO

L4.12
IRRIGATION PLAN - WEST

SHEET XX

MATCH LINE SEE SHEET L4.12



GENERAL IRRIGATION NOTES

1. REFER TO THE IRRIGATION EQUIPMENT LEGEND ON L4.00 AND THE GENERAL IRRIGATION NOTES ON SHEET L4.01 FOR ADDITIONAL INFO.
2. REFER TO THE IRRIGATION DEMOLITION PLANS ON SHEETS L4.10 & L4.11.
3. REFER TO THE IRRIGATION PLANS ON SHEETS L4.12 & L4.13.
4. REFER TO THE IRRIGATION DETAILS ON SHEETS L4.50, L4.51& L4.52 FOR ADDITIONAL INFORMATION.
5. ALL MAINLINE, LATERAL PIPE, VALVES, AND OTHER IRRIGATION SYSTEM APPURTENANCES SHOWN IN PAVED AREA IS FOR GRAPHICAL CLARITY ONLY. CONTRACTOR TO PLACE MAINLINE, LATERAL PIPE, VALVES AND ALL IRRIGATION APPURTENANCES WITHIN ADJACENT PLANTING AREAS UNLESS NOTED OTHERWISE ON THE PLANS.
6. CONTRACTOR SHALL ROUTE ALL IRRIGATION MAINLINE, LATERAL PIPE AND SLEEVES AROUND ALL SERVICE LINES, UTILITIES, STORM DRAINAGE FACILITIES, ETC. IN ORDER TO AVOID ANY CONFLICTS IN THE FIELD. INSTALL IRRIGATION PIPE BELOW STORM DRAINAGE PIPES WHERE REQUIRED TO MAINTAIN THE MINIMAL DEPTH REQUIREMENTS.

GENERAL IRRIGATION LEGEND

SLEEVING: REFER TO IRRIGATION LEGEND AND CHART ON SHEET L4.00 FOR TYPE AND SIZE.

(#)M MAINLINE PIPE SLEEVE QUANTITY
(#)L LATERAL PIPE SLEEVE QUANTITY
(#)W WIRE/CONDUIT SLEEVE QUANTITY
(#)S EMPTY(SPARE) SLEEVE QUANTITY

VALVE CALLOUT

CONTROLLER/STATION →	A17	Z1	← HYDROZONE DESCRIPTION*
FLOW (GPM) →	5.4	1"	← VALVE SIZE
OPERATING PRESSURE (PSI) →	30	DRP	← IRRIGATION METHOD (BELOW)
HYDROZONE WATER-USE →	L	0.85	← PRECIP. RATE (IN./HR.)
	631		← HYRDOZONE AREA (SF)

*REFER TO HYDROZONE CHART

IRRIGATION METHOD:
RWS - TREE ROOT WATERING SYSTEM
DRP - SUB-SURFACE DRIP GRID
ROT - POP-UP ROTOR
SPR - POP-UP SPRAY

1-1/2" PIPE SIZING CALLOUT

LANDSCAPE IRRIGATION KEYED NOTES

1	POINT OF CONNECTION TO EXISTING IRRIGATION MAIN AND WIRING':
	CONNECT TO EXISTING 3" PVC MAIN LINE PIPE AND LOW VOLTAGE CONTROL WIRES AT THIS LOCATION WITH NEW MAIN LINE PIPE AND CONTROL WIRES. ROUTE NEW PVC MAIN AND CONTROL WIRES AS INDICATED ON THE IRRIGATION PLANS. INSTALL PER DETAILS.

IRRIGATION ZONE LEGEND

ZONE 1 - TURF GRASS AT PLAY FIELD (SOD)- HIGH WATER USE
- POP-UP ROTOR IRRIGATION.

ZONE 2 - SHRUBS AND GROUNDCOVER- LOW WATER USE
- SUB SURFACE DRIP GRID IRRIGATION.

ZONE 3 - SHRUBS AND GROUNDCOVER- MEDIUM WATER USE
- SUB SURFACE DRIP GRID IRRIGATION.

ZONE 4 - BIO RETENTION AREA PLANTING- LOW WATER USE
- SUBSURFACE DRIP GRID IRRIGATION.

ZONE 5 - VINES - MEDIUM WATER USE
- FLOOD BUBBLER IRRIGATION (1 PER VINE).

ZONE 6 - TREES - LOW WATER USE
- FLOOD BUBBLER IRRIGATION (2 PER TREE).

ZONE 7 - TREES - MEDIUM WATER USE
- FLOOD BUBBLER IRRIGATION (2 PER TREE).

811 Know what's **below** **Call** before you dig.

MWELO REQUIRED STATEMENTS & CERTIFICATION:

1. A DIAGRAM OF THE IRRIGATION PLAN SHOWING HYDROZONES SHALL BE KEPT WITH THE IRRIGATION CONTROLLER FOR SUBSEQUENT MANAGEMENT PURPOSES.
2. A CERTIFICATE OF COMPLETION SHALL BE FILLED OUT AND CERTIFIED BY EITHER THE DESIGNER OF THE LANDSCAPE PLANS, IRRIGATION PLANS, OR THE LICENSED LANDSCAPE CONTRACTOR FOR THE PROJECT.
3. AN IRRIGATION AUDIT REPORT SHALL BE COMPLETED AT THE TIME OF FINAL INSPECTION.

MWELO IRRIGATION DESIGN PLAN REQUIRED NOTES:

1. PRESSURE REGULATING DEVICES ARE REQUIRED IF WATER PRESSURE IS BELOW OR EXCEEDS THE RECOMMENDED PRESSURE OF THE SPECIFIED IRRIGATION DEVICES.
2. CHECK VALVES OR ANTI-DRAIN VALVES ARE REQUIRED ON ALL SPRINKLER HEADS WHERE LOW POINT DRAINAGE COULD OCCUR.

"I AGREE TO COMPLY WITH THE REQUIREMENTS OF THE WATER EFFICIENT LANDSCAPE ORDINANCE AND SUBMIT A COMPLETE LANDSCAPE DOCUMENTATION PACKAGE.

SIGNATURE DATE

"I HAVE COMPLIED WITH THE CRITERIA OF THE ORDINANCE AND APPLIED THEM FOR THE EFFICIENT USE OF WATER IN THE LANDSCAPE DESIGN PLANS."

MIG
800 HEARST AVENUE
BERKELEY, CA 94710
TEL (510) 845-7549
www.migcom.com

Date:	02-21-2023
Scale:	
Designed:	
Drawn:	CH
Checked:	JE
Proj. Engr:	
File:	

REVISIONS	DESIGN BY	DESIGN DATE	CITY APPR.	APPR. DATE

IMPROVEMENT PLANS FOR

ALL-INCLUSIVE PLAYGROUND AT JOLLYMAN PARK

CUPERTINO CALIFORNIA

FOR CITY OF CUPERTINO USE
PROJECT # _____

PUBLIC WORKS INSPECTOR:

VOICE MAIL:

CITY OF CUPERTINO

L4.13
IRRIGATION PLAN - EAST

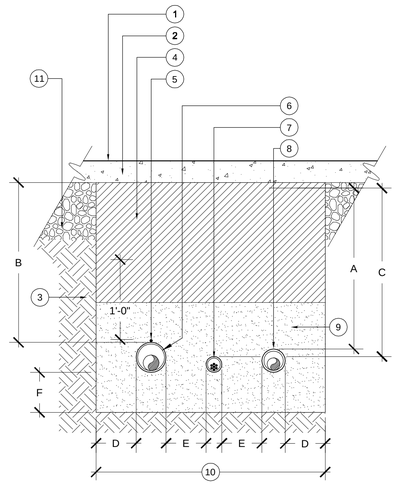
SHEET XX

FEBRUARY 2023

	LAT	MAIN	WIRING			
DEPTH	A	B	C	D	E	F
4" AND LARGER	N/A	N/A	N/A	6"	6"	6"
3" AND SMALLER	18"	N/A	N/A	6"	6"	6"
2-1/2" AND SMALLER	12"	N/A	N/A	6"	6"	6"
CONTROL WIRES	N/A	N/A	18"	6"	6"	6"

NOTES:

1. DIG SIDES OF TRENCH SQUARE AND CLEAN OF ALL SHARP MATERIAL.
2. NON-PRESSURE PIPES RUNNING PARALLEL TO EACH OTHER MUST HAVE A MIN. CLEARANCE OF 6" FROM EACH OTHER.
3. IRRIGATION PIPES SHALL HAVE A MIN. CLEARANCE OF 24" FROM OTHER TRADES.
4. PROVIDE A 24" LOOP IN ALL WIRING AT CHANGES IN DIRECTION.
5. CONTRACTOR MUST ADJUST MAINLINE AS REQUIRED TO AVOID OTHER ELEMENTS.
6. ALL SLEEVES MUST BE A MIN. OF 2 TIMES THE DIAMETER OF THE PIPE WITHIN
7. ALL SLEEVES MUST EXTEND 6" MIN. DISTANCE PAST CURB OR PAVEMENT EDGES.



SECTION VIEW

1. FINISH GRADE.
2. VEHICULAR OR PEDESTR. PAVING.
3. UNDISTURBED NATIVE SOIL.
4. COMPACTED BACKFILL OVER INITIAL SAND BEDDING:
   - BENEATH VEHICULAR PAVEMENT SHALL BE COMPACTED CLASS II AGG., DEPTH AND COMPACTION PER ENGINEER'S PLANS
   - BENEATH NON-VEHICULAR PAVEMENT SHALL BE NATIVE SITE SOIL. NO PARTICLES GREATER THAN 1". COMPACT PER SPECS.
5. COPPER TRACE WIRE, REFER TO SPECS.
6. PRESSURE MAINLINE PIPE SLEEVE, PER LEGEND.
7. CONTROL WIRE SLEEVE, PER LEGEND.
8. NON-PRESSURE LATERAL LINE SLEEVE, PER LEGEND.
9. INITIAL SAND BACKFILL PER SPECS. PROVIDE 6" BEDDING DEPTH BELOW MAINLINE AND 6" COVER ABOVE MAINLINE. COMPACT PER SPECS.
10. 9" MIN. OR AS NEEDED TO PROVIDE FOR A MINIMUM 6" CLEARANCE BETWEEN PIPES.
11. PAVEMENT SUBGRADE - AS PER ENGINEER'S PLANS

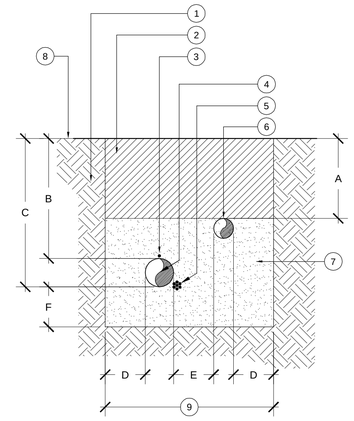
2 TRENCHING - BENEATH PAVING

Scale: N.T.S.

	LAT	MAIN	WIRING			
DEPTH	A	B	C	D	E	F
4" AND LARGER	N/A	N/A	N/A	6"	6"	6"
3" AND SMALLER	18"	N/A	N/A	6"	6"	6"
2-1/2" AND SMALLER	12"	N/A	N/A	6"	6"	6"
CONTROL WIRES	N/A	N/A	18"	6"	6"	6"

NOTES:

1. DIG SIDES OF TRENCH SQUARE AND CLEAN OF ALL SHARP MATERIAL.
2. NON-PRESSURE PIPES RUNNING PARALLEL TO EACH OTHER MUST HAVE A MIN. CLEARANCE OF 6" FROM EACH OTHER.
3. IRRIGATION PIPES SHALL HAVE A MIN. CLEARANCE OF 24" FROM OTHER TRADES.
4. PROVIDE A 24" LOOP IN ALL WIRING AT CHANGES IN DIRECTION.
5. CONTRACTOR MUST ADJUST MAINLINE AS REQUIRED TO AVOID OTHER ELEMENTS.



SECTION VIEW

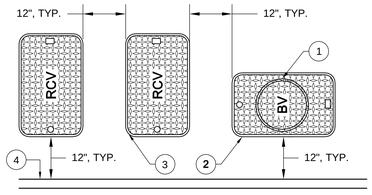
1. UNDISTURBED NATIVE SOIL.
2. COMPACTED NATIVE BACKFILL OVER INITIAL SAND BEDDING. NO PARTICLES GREATER THAN 1". COMPACT PER SPECS.
3. COPPER TRACE WIRE. REFER TO SPECS.
4. PRESSURE MAINLINE PIPE, PER LEGEND.
5. CONTROL WIRES, BUNDLED AND TAPED TO SIDE OF MAINLINE AT 10' O.C. (INSTALL WIRES IN CONDUIT FROM CONTROLLER TO MAINLINE).
6. NON-PRESSURE LATERAL LINE, PER LEGEND.
7. INITIAL SAND BACKFILL PER SPECS. PROVIDE 6" BEDDING DEPTH BELOW MAINLINE AND 6" COVER ABOVE MAINLINE. COMPACT PER SPECS.
8. FINISH GRADE
9. 9" MIN. OR AS NEEDED TO PROVIDE FOR A MINIMUM 6" CLEARANCE BETWEEN PIPES.

1 TRENCHING - WITHIN PLANTING AREAS

Scale: N.T.S.

NOTES:

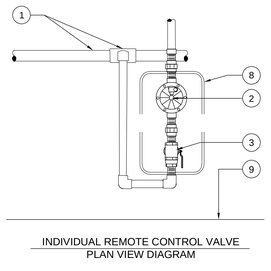
1. INSTALL VALVE BOXES IN GROUND COVER/ SHRUB PLANTING AREAS WHENEVER POSSIBLE.
2. ALL VALVE BOXES MUST BE PERPENDICULAR TO EDGE OF AREA, ADJACENT PAVING OR CONCRETE CURB AND SET PARALLEL TO EACH OTHER.
3. ALL VALVES MUST BE CENTERED AND INSTALLED PLUMB INSIDE VALVE BOX TO FACILITATE ACCESS AND MAINTENANCE.
4. ALL VALVES MUST BE INSTALLED IN ITS OWN VALVE BOX.
6. REFER TO VALVE ASSEMBLY DETAILS FOR VALVE BOXES FINISH ELEVATIONS.
7. AVOID EXCESSIVE COMPACTING AROUND VALVE BOXES TO PREVENT COLLAPSE AND DEFORMATION OF VALVE BOX SIDES.
8. INSTALL VALVE BOX EXTENSIONS BY VALVE MANUFACTURER AS REQUIRED TO COMPLETELY ENCLOSE VALVE ASSEMBLY.
9. LOCATION OF VALVE ASSEMBLIES SHALL BE STAKED FOR APPROVAL BY OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
10. BOX COLOR: GREEN FOR POTABLE WATER SYSTEMS..
11. ALL VALVE BOX LIDS MUST BE LABELED BY HOT IRON BRANDING:
    - YS - WYE STRAINER
    - CV - CHECK VALVE
    - MV - MASTER VALVE
    - FS - FLOW SENSOR
    - RCV - REMOTE CONTROL VALVE
    - QCV - QUICK COUPLER VALVE
    - BV - ISOLATION BALL VALVE
    - GV - ISOLATION GATE VALVE
    - E - PULL BOX/ SPLICE BOX



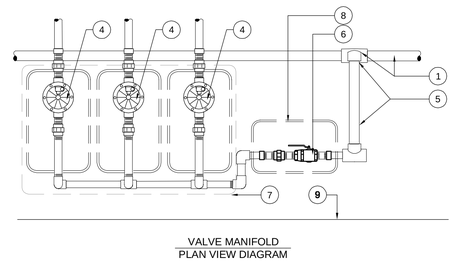
1. 10" ROUND VALVE BOX PER SPECS FOR REMOTE CONTROL WIRE PULL/SPLICES, TYP.
2. RECTANGULAR VALVE BOX PER SPECS FOR MAINLINE ISOLATION BALL VALVE, TYP.
3. RECTANGULAR VALVE BOX PER SPECS FOR REMOTE CONTROL VALVE ASSEMBLIES, TYP.
4. EDGE OF AREA, SIDEWALK, CONCRETE CURB, ETC., TYP.

4 VALVE BOX LAYOUT

Scale: N.T.S.



INDIVIDUAL REMOTE CONTROL VALVE
PLAN VIEW DIAGRAM



VALVE MANIFOLD
PLAN VIEW DIAGRAM

1. PRESSURE MAINLINE AND TEE FITTING(S).
2. INDIVIDUAL REMOTE CONTROL VALVE WITH BALL VALVE .
3. ISOLATION BALL VALVE WHEN SINGLE REMOTE CONTROL VALVE IS NOT GROUPED WITHIN MAINLINE MANIFOLD ASSEMBLY.
4. REMOTE CONTROL VALVE
5. MANIFOLD TEE AND PRESSURE MAINLINE PIPE. MUST BE MAINLINE SIZE.
6. MANIFOLD ISOLATION BALL VALVE. VALVE MUST BE MAINLINE SIZE.
7. MANIFOLD VALVES TOGETHER WHEN WITHIN 20 FEET OF EACH OTHER.
8. VALVE BOX, TYP.
9. EDGE OF AREA, ADJACENT PAVING OR CONCRETE CURB.

NOTES:

1. ALL THREADED CONNECTIONS MUST HAVE TEFLON TAPE (PVC/ BRASS) OR PASTE (BRASS ONLY).
2. REMOTE CONTROL VALVES SHALL BE INSTALLED WITH THE LARGEST VALVE AND GPM FLOW INSTALLED FIRST ON THE MANIFOLD, WITH THE SMALLER VALVES AND CAPACITIES TRANSITIONING FROM THERE.
3. REFER TO SPECIFIC DETAIL FOR ISOLATION BALL VALVE REQUIREMENTS.
4. REFER TO SPECIFIC DETAIL FOR QUICK COUPLER VALVE REQUIREMENTS.
5. REFER TO SPECIFIC DETAIL FOR REMOTE CONTROL VALVE REQUIREMENTS.
6. REFER TO SPECIFIC DETAIL FOR VALVE BOX LAYOUT REQUIREMENTS.
7. REFER TO SPECIFIC DETAIL FOR PRESSURE MAINLINE AND NON-PRESSURE LATERALS PIPE REQUIREMENTS.

3 MANIFOLD INSTALLATION

Scale: N.T.S.

MIG
800 HEARST AVENUE
BERKELEY, CA 94710
TEL (510) 845-7549
www.migcom.com

Date:	02-21-2023
Scale:	
Designed:	
Drawn:	CH
Checked:	JE
Proj. Engr:	
File:	

	REVISIONS	DESIGN BY	DESIGN DATE	CITY APPR.	APPR. DATE
△					

IMPROVEMENT PLANS FOR

ALL-INCLUSIVE PLAYGROUND AT JOLLYMAN PARK

CUPERTINO CALIFORNIA

FOR CITY OF CUPERTINO USE
PROJECT # _____

PUBLIC WORKS INSPECTOR:

VOICE MAIL:

CITY OF CUPERTINO

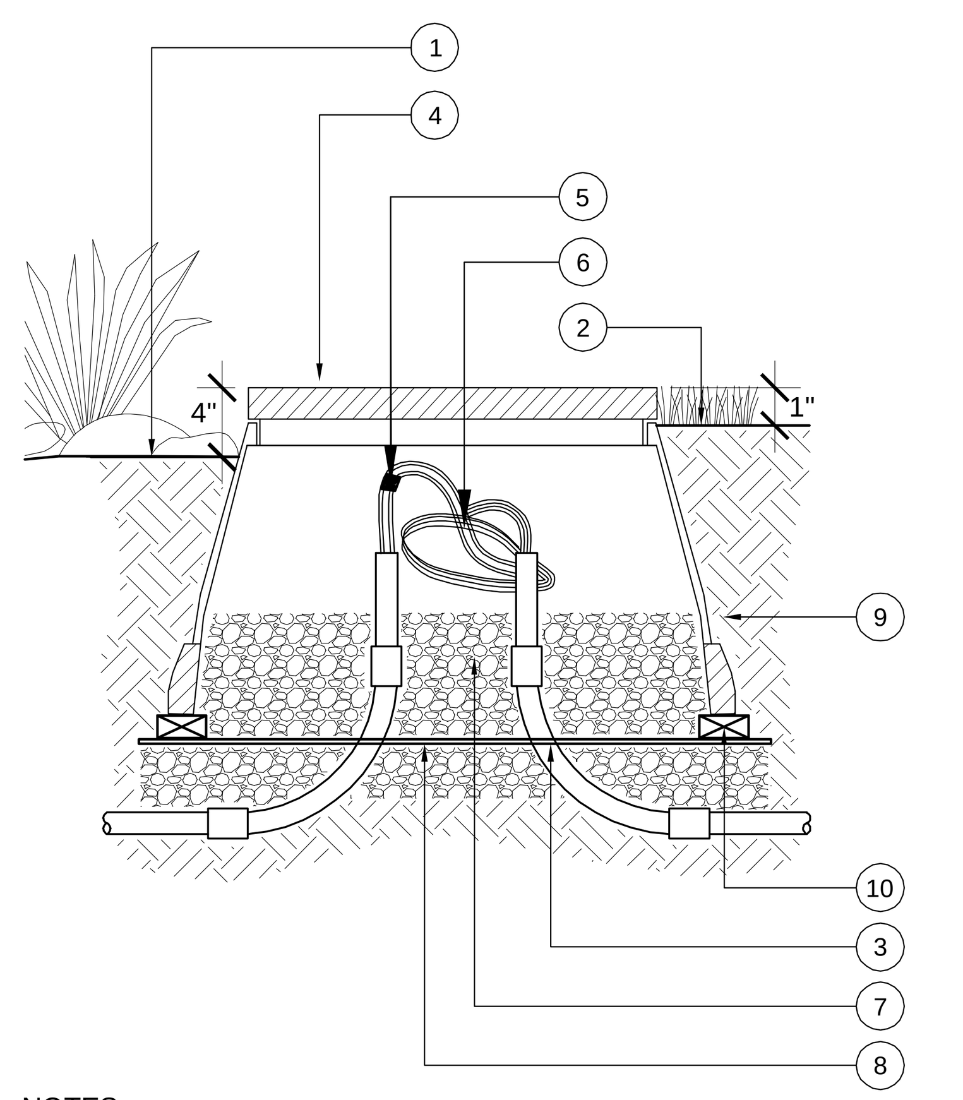
L4.50
IRRIGATION DETAILS

SHEET XX

FEBRUARY 2023

Z:\SHARED\BERKELEY\3000_CED\3\30902 JOLLYMAN PLAY\07 CD\L4.X-IRRIGATION_30902.DWG

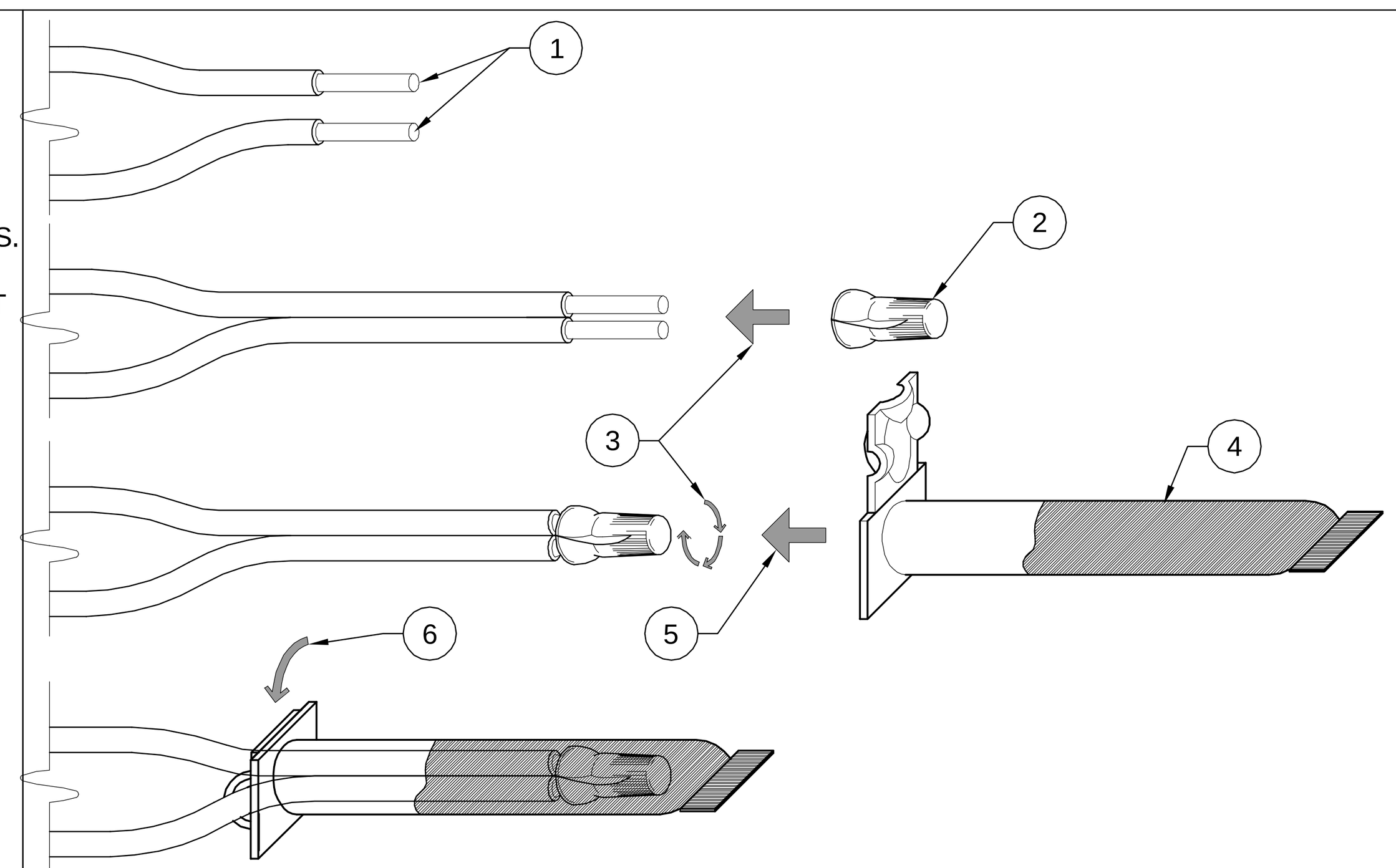
ALL-INCLUSIVE PLAYGROUND AT JOLLYMAN PARK / 50% CD / NOT FOR CONSTRUCTION / 02-21-2023



1. FINISH GRADE AT PLANTER.
2. FINISH GRADE AT TURF AREA.
3. PVC SCH. 40 ELECTRICAL CONDUIT AND SWEEPS TO DEPTH PER SPECS.
4. RECTANGULAR VALVE BOX W/ BOLT DOWN COVER, AND SS HARDWARE.
5. APPROVED WIRE CONNECTOR (IF APPLICABLE).
6. 36" EXPANSION COIL.
7. 3 CU. FT. CRUSHED ROCK BASE.
8. LANDSCAPE FABRIC AND 1/4" GALV. WIRE MESH, TYP.
9. NATIVE SOIL.
10. (4) CONCRETE BRICK SUPPORTS, ONE AT EACH CORNER.

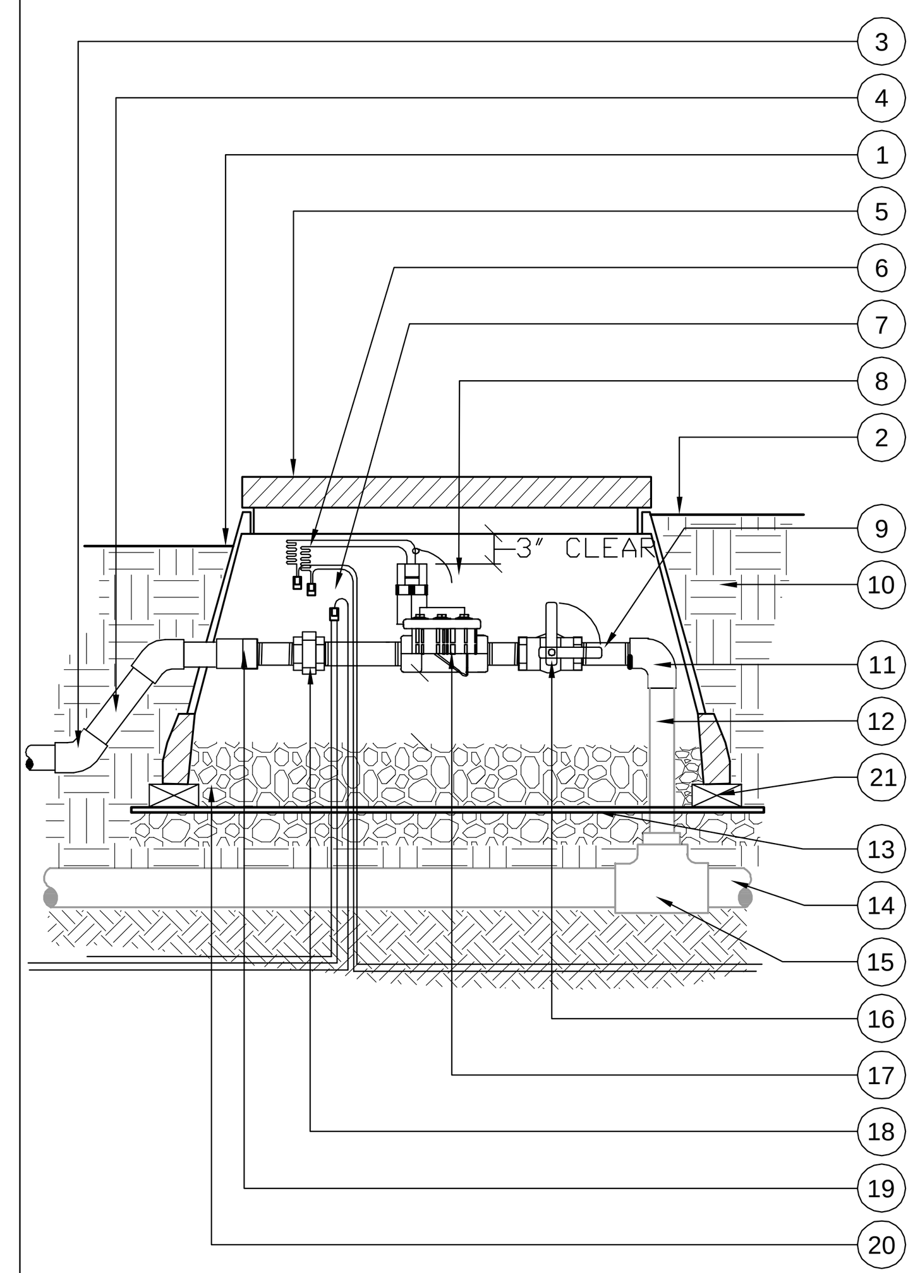
NOTES:
1. ALL WIRING MUST CONFORM TO LOCAL CODES.
2. PROVIDE 36" EXPANSION COILS AT EACH WIRE CONNECTION.
3. PROVIDE 3" CLEARANCE BETWEEN WIRES AND LID.
4. NO WIRE SPLICES ARE ALLOWED WITHOUT OWNER'S REPRESENTATIVE APPROVAL.

8 PULL BOX
Scale: N.T.S.



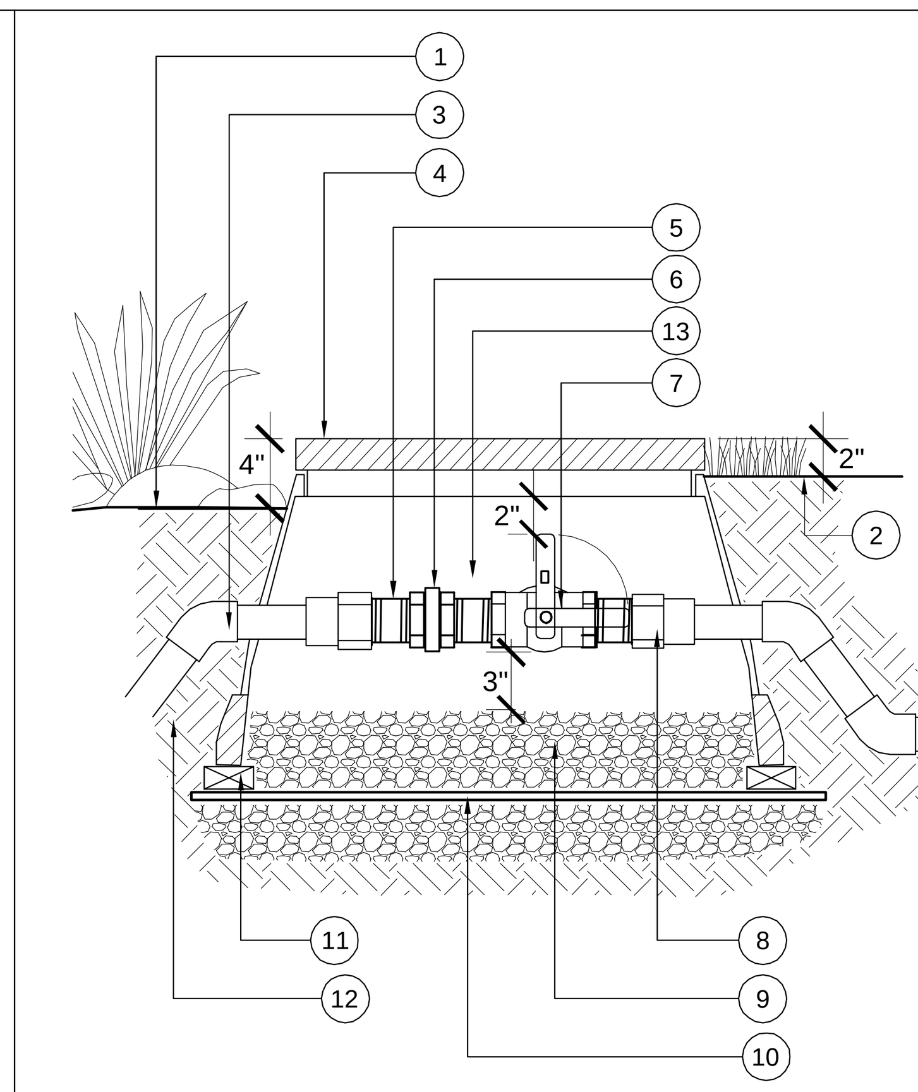
1. STRIP, CLEAN AND DRY WIRES APPROXIMATELY 5/8" FROM END AND INSERT WIRES THROUGH HOLES IN BASE OF BODY
2. ELECTRICAL CONNECTOR
3. APPLY ELECTRICAL CONNECTOR AND TWIST CLOCKWISE
4. GEL-FILLED INSULATOR
5. INSERT SPLICE INTO GEL-FILLED INSULATOR TUBE. PUSH PAST THE LOCKING FINGERS TO HOLD ELECTRICAL CONNECTOR IN PLACE.
6. POSITION WIRE CHANNELS AND SNAP INSULATOR TUBE COVER CLOSED.

7 DRY SPLICE CONNECTION
Scale: NTS



1. FINISH GRADE AT PLANTER
2. FINISH GRADE AT TURF AREA
3. PVC LATERAL LINE. USE PVC SCH. 40 45° ELL TO DEPTH PER SPECS.
4. LATERAL PIPE, PER SPECS.
5. RECTANGULAR VALVE BOX
6. DIRECT BURIAL CONTROL WIRING.
7. EXTRA WIRE.
8. TAG WITH STATION NUMBER.
9. SCH. 80 NIPPLE (4X PER VALVE)
10. NATIVE SOIL COMPACTED
11. CONNECTION: SLIP X FT SCH. 80 PVC ELL
12. EXISTING MANIFOLD PIPE.
13. LANDSCAPE FABRIC AND 1/4" GALV. WIRE MESH, TYP.
14. EXISTING MAINLINE/ WIRES TO REMAIN.
15. EXISTING MAINLINE FITTING TO REMAIN.
16. VALVE SIZE BRONZE BALL VALVE. ONE PER VALVE.
17. REMOTE CONTROL VALVE, SIZE PER PLAN.
18. SCH. 80 UNION
19. SCH. 80 FEMALE ADAPTER
20. 3 CU. FT. 3/4" PEA GRAVEL.
21. BRICK SUPPORTS, TYP. OF 4

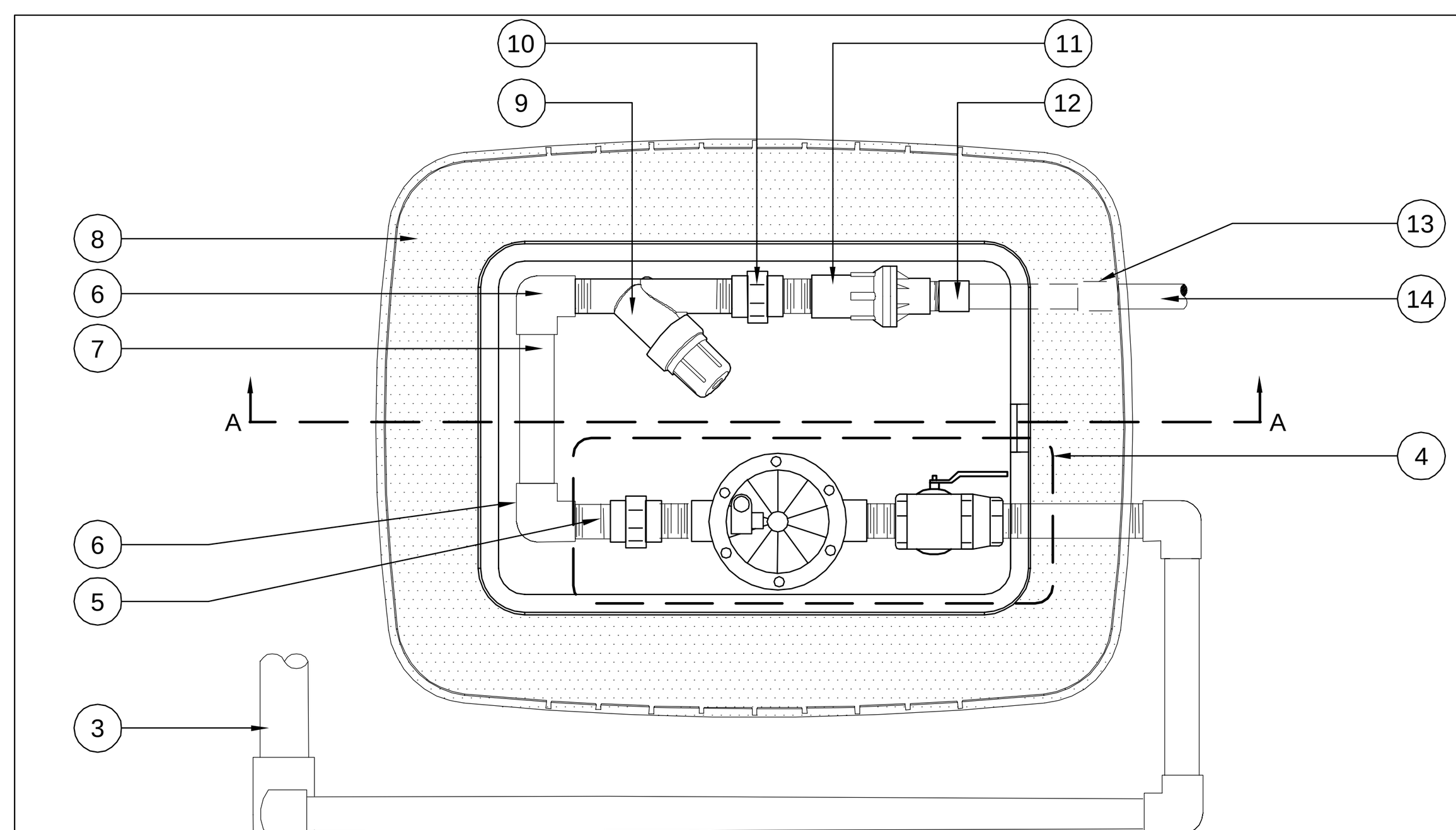
6 REMOTE CONTROL VALVE
Scale: N.T.S.



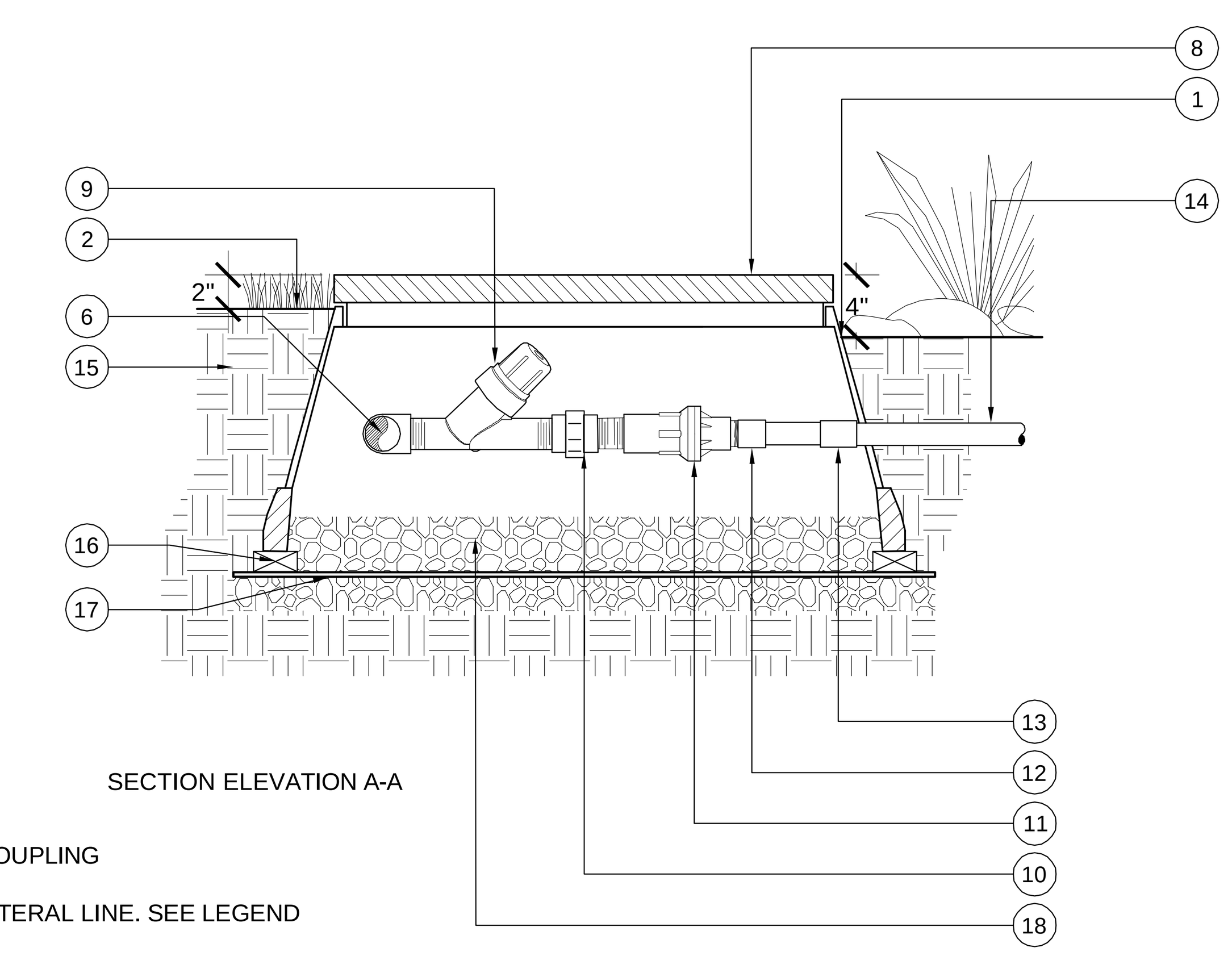
1. FINISH GRADE AT PLANTER
2. FINISH GRADE AT TURF AREA
3. PVC MAINLINE. USE PVC SCH. 80 45° ELL TO DEPTH PER SPECS.
4. RECTANGULAR VALVE BOX W/ BOLT DOWN COVER, AND SS HARDWARE
5. BRASS NIPPLE.3 QTY., TYP
6. BRASS UNION
7. ISOLATION BALL VALVE. REFER TO SPECS.
8. PVC SCH. 80 FEMALE ADAPTER, (2) QTY.
9. 3 CU. FT. 3/8" PEA GRAVEL
10. LANDSCAPE FABRIC AND 1/4" GALV. WIRE MESH, TYP.
11. NATIVE SOIL COMPACTED TO
12. (4) CONCRETE BRICK SUPPORTS, ONE AT EACH CORNER

NOTES:
1. BALL VALVE MUST BE INSTALLED IN VALVE BOX TO ALLOW PROPER OPERATION OF BALL VALVE HANDLE.
2. ALL THREADED FITTINGS MUST HAVE 3/4" TEFLON TAPE OR PASTE.
3. PROVIDE 45° ELLS TO ACHIEVE BALL VALVE HEIGHT PER DETAIL.

5 ISOLATION BALL VALVE, 3" & SMALLER
Scale: N.T.S.



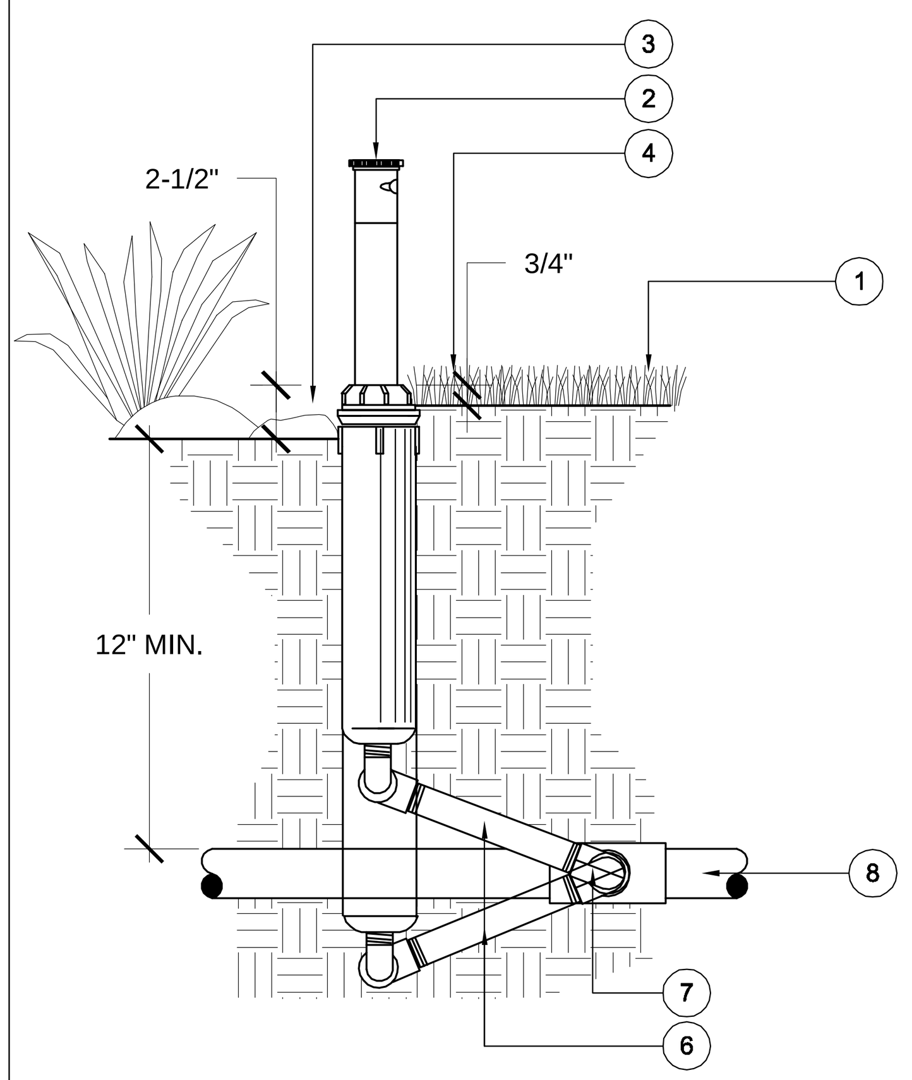
TOP VIEW



SECTION ELEVATION A-A

1. FINISH GRADE AT PLANTER
2. FINISH GRADE AT TURF AREA
3. IRRIGATION PRESSURE MAINLINE OR MANIFOLD SUPPLY
4. REFER TO REMOTE CONTROL VALVE DETAIL
5. SCH. 80 PVC NIPPLE. 3" MIN. LENGTH
6. SCH. 80 PVC ELL (TxT)
7. SCH. 80 PVC NIPPLE. LENGTH AS REQ.
8. JUMBO RECTANGULAR VALVE BOX WITH LOCKING COVER AND SS LOCKING BOLT
9. SCREEN FILTER. SEE LEGEND AND SPECS
10. SCH. 80 PVC UNION
11. PRESSURE REGULATOR. SEE LEGEND AND SPECS
12. SCH. 80 PVC MALE ADAPTER
13. SCH. 40 PVC COUPLING
14. IRRIGATION LATERAL LINE. SEE LEGEND AND SPECS
15. NATIVE SOIL COMPACTED
16. BRICK SUPPORTS, TYP. OF 4
17. LANDSCAPE FABRIC AND 1/4" GALV. WIRE MESH, TYP.
18. 3 CU. FT. 3/4" PEA GRAVEL

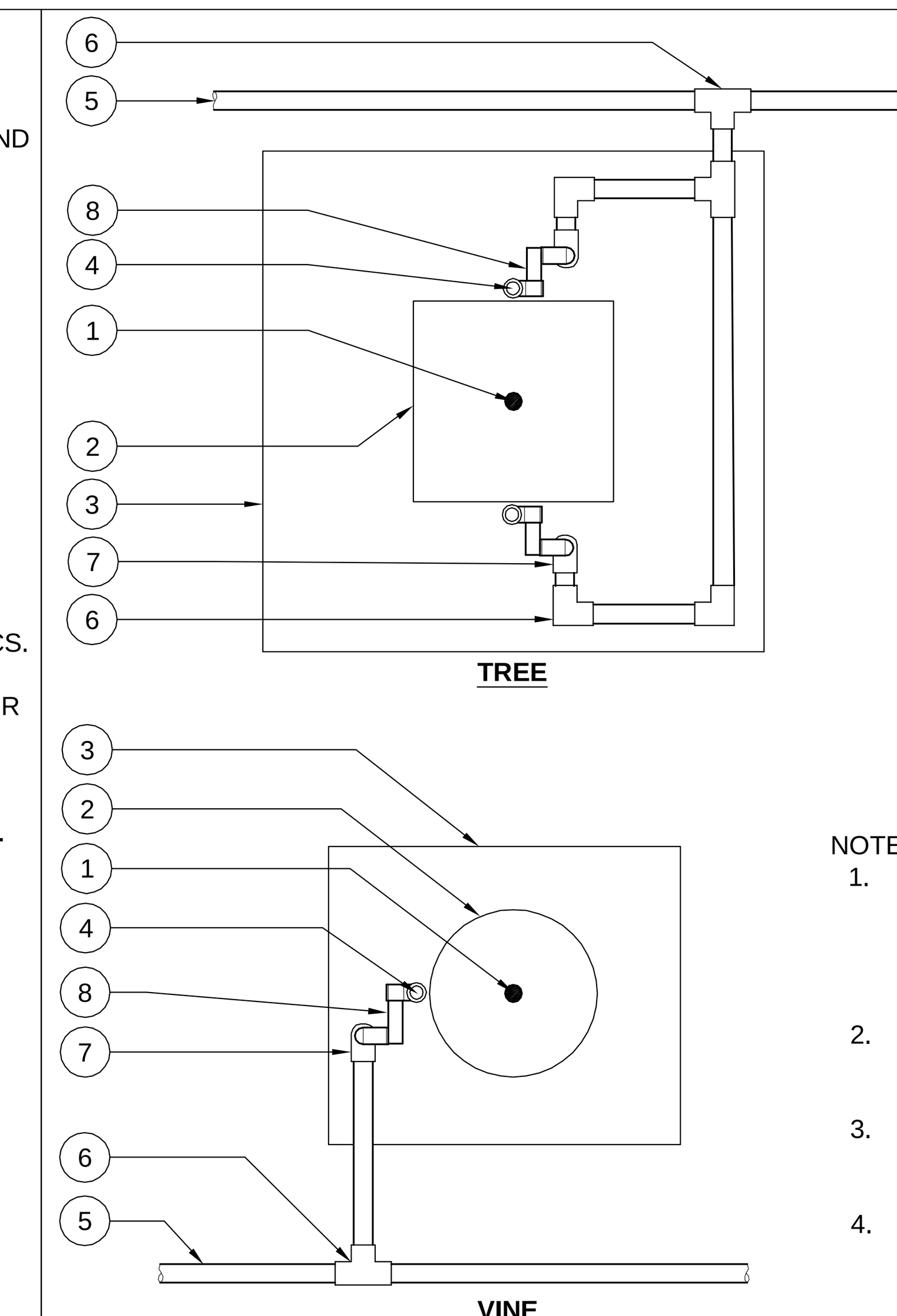
11 DRIP REMOTE CONTROL VALVE ASSEMBLY
Scale: N.T.S.



1. FINISH GRADE
2. POP-UP ROTOR HEAD, PER IRRIGATION EQUIPMENT LEGEND AND SPECS.
3. INSTALL HEAD 2-1/2" ABOVE FINISH GRADE AT SHRUB AND GROUND-COVER AREAS.
4. INSTALL HEAD 3/4" ABOVE FINISH GRADE AT TURF AREAS.
5. NATIVE SOIL COMPACTED TO ORIGINAL DENSITY AROUND HEAD.
6. TRIPLE SWING JOINT ASSEMBLY. THREADED ENDS SHALL BE SAME SIZE AS SPRINKLER INLET. 12" MIN. LENGTH FOR 12" POP-UP. SEE SPECS.
7. SCH. 40 PVC FITTING. SxSxT (TEE) OR SxT(ELL) AS REQUIRED, LATERAL X SPRINKLER INLET SIZE.
8. PVC NON-PRESSURE LATERAL LINE. SEE SPECS.

NOTES:
1. USE 3/4" TEFLON TAPE WHERE ELL MEETS TEE/ELL.
2. INSTALL HEADS PERPENDICULARLY PLUMB TO ADJACENT GRADE.
3. ADJUST NOZZLES/HEAD TO PREVENT OVERSPRAY ONTO PAVING, WALLS/FENCES, BUILDINGS, ETC.
4. INSTALL HEADS 4" FROM ALL HARDSCAPE EDGES.
5. INSTALL HEADS 6" FROM WALLS/ FENCES.

10 POP-UP ROTOR
Scale: N.T.S.



KEY:
1. TRUNK OF TREE, STEM OF VINE, TYP.
2. EDGE OF ROOTBALL, TYP.
3. PLANTING PIT, TYP.
4. BUBBLER ADJACENT TO ROOTBALL. QUANTITY PER LEGEND.
5. LATERAL LINE IRRIGATION. SEE PLANS FOR SIZING AND TYPE.
6. SCH. 40 PVC TEE OR 90° ELBOW
7. SCH. 40 PVC 90° ELBOW SLIP TO THREAD
8. TRIPLE SWING JOINT

NOTES:
1. CONTRACTOR SHALL SETTLE THE AREA AROUND THE BUBBLER AND EDGE OF THE ROOTBALL SO THAT ALL IRRIGATION FLOWS THROUGH THE ROOT BALL.
2. BUBBLER MUST BE ADJACENT TO THE EDGE OF THE ROOTBALL.
3. IN GROUND SHRUB CONDITION IS IDENTICAL TO VINE CONDITION.
4. LOCATE BUBBLERS ON HIGH SIDE OF ROOTBALL WHEN SLOPE EXISTS.

9 TREE/VINE BUBBLER ASSEMBLY
Scale: N.T.S.

MIG
800 HEARST AVENUE
BERKELEY, CA 94710
TEL (510) 845-7549
www.migcom.com

Date:	02-21-2023					
Scale:						
Designed:						
Drawn:	CH					
Checked:	JE					
Proj. Engr:			REVISIONS	DESIGN BY	DESIGN DATE	CITY APPR.	APPR. DATE
File:						

IMPROVEMENT PLANS FOR

ALL-INCLUSIVE PLAYGROUND AT JOLLYMAN PARK

CUPERTINO CALIFORNIA

FOR CITY OF CUPERTINO USE
PROJECT # __________

PUBLIC WORKS INSPECTOR:

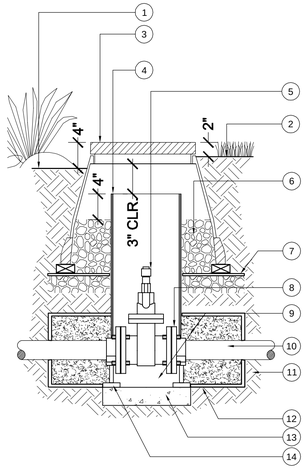
VOICE MAIL:

CITY OF CUPERTINO

L4.51
IRRIGATION DETAILS

SHEET XX

FEBRUARY 2023



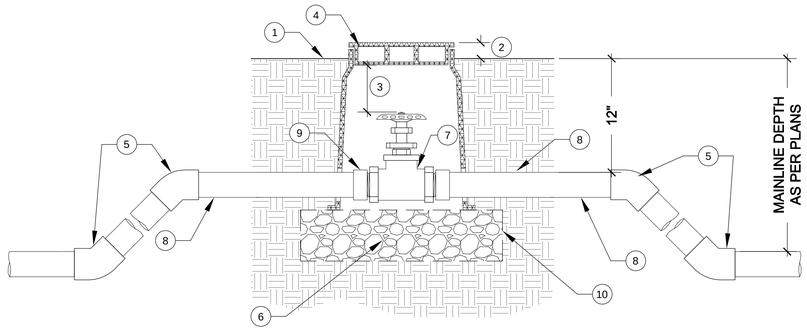
1. FINISH GRADE AT PLANTER
2. FINISH GRADE AT TURF AREA
3. RECTANGULAR VALVE BOX W/ BOLT DOWN COVER, AND SS HARDWARE
4. 8" PVC CL 160 PIPE.
5. ISOLATION GATE VALVE WITH 2" OPERATING NUT PER SPECS AND IRRIGATION LEGEND
6. 3 CU. FT. 3/4" PEA GRAVEL
7. LANDSCAPE FABRIC AND 1/4" GALV. WIRE MESH BELOW BOX, TYP.
8. SCH. 80 FLANGE, BOLT & GASKET, TYP., (2) QTY.
9. ROUNDED PEA GRAVEL OVER DOUBLE WRAPPED PIPING AND VALVE.
10. SOLVENT WELD PVC PIPE PER SPECS AND IRRIGATION LEGEND
11. NATIVE SOIL COMPACTED TO
12. MIRAFY FILTER FABRIC
13. 14" X 14" X 4" CONC. SUPPORT
14. STEEL POWDER COATED VALVE STAND (2) QTY., TYP.

NOTES:

1. CONTRACTOR SHALL PROVIDE (1) 5-FOOT TEE WRENCH WITH 2" SQUARE NUT FOR VALVE OPERATION.

14 ISOLATION GATE VALVE (3" - 4")

Scale: N.T.S.



NOTES:

1. WHEN THE MAIN LINE IS TERMINATED AT THE VALVE, EXTEND MAIN LINE 48" BEYOND VALVE BOX AND CAP.

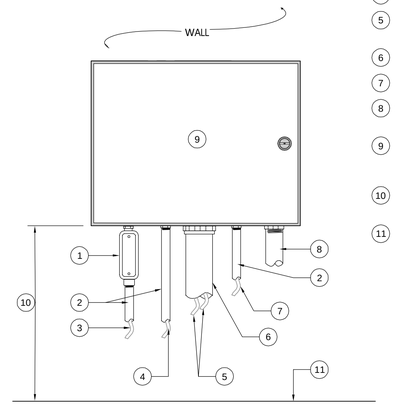
1. FINISH GRADE
2. SET TOP OF BOX ABOVE FINISH GRADE: 1/2" IN SEED, 1-1/2" IN SOD, 2-1/2" IN PLANTER.
3. ALLOW 3" BETWEEN TOP OF THE INTERIOR VALVE BOX COVER AND TOP OF VALVE HANDLE.
4. GREEN PLASTIC VALVE BOX WITH BOLT DOWN LOC-KIT; CARSON MODEL 910.
5. 45° FITTING
6. 3/4" CRUSHED ROCK; 3" MINIMUM DEPTH. EXTEND 6" BEYOND VALVE BOX WALL.
7. GATE VALVE (THREADED)
8. MAIN LINE
9. MALE SLIP ADAPTER, (ON EACH SIDE, 2 TOTAL)
10. 1/4" GALVANIZED WIRE CLOTH

13 ISOLATION GATE VALVE (2.5" & SMALLER)

Scale: N.T.S.

NOTES:

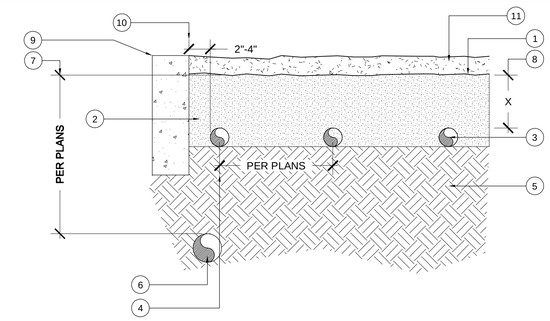
1. PROPER GROUNDING IS REQUIRED TO ACHIEVE GROUND RESISTANCE OF 10 OHMS OR LESS AS PER MFG'R REQUIREMENTS.
2. USE CONDUIT PER CONDITIONS OR PER LOCAL CODE.
3. INSTALL PER MANUFACTURER'S INSTRUCTIONS.



1. JUNCTION BOX
2. 1/2" CONDUIT
3. POWER SUPPLY WIRES
4. ETHERNET CABLE (IF REQ'D)
5. IRRIG. WIRES IN CONDUIT TO FIELD
6. 2" CONDUIT
7. GROUNDING WIRE
8. 1" CONDUIT FOR ANTENNA CABLE (IF REQ'D)
9. IRRIGATION CONTROLLER WALL MOUNTED IN UTILITY ROOM. SEE LEGEND FOR MODEL NUMBER.
10. 60" ABOVE FINISH FLOOR OF UTILITY ROOM.
11. FINISH FLOOR.

12 WALL MOUNT CONTROLLER

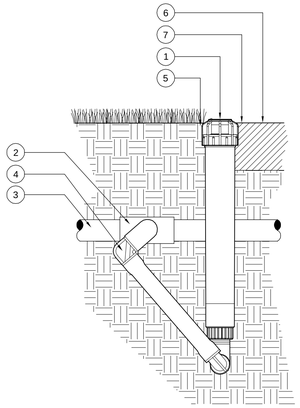
NOT TO SCALE



1. FINISH GRADE AT PLANTER
2. TOP SOIL. SEE SPECS.
3. DRIPLINE, SEE IRRIGATION LEGEND
4. REFER TO PLAN FOR SPACING REQ.
5. PREPARED SUBGRADE. REFER TO PLANITNG PLANS AND DETAILS.
6. PVC NON-PRESSURE LATERAL LINE PER IRRIGATION PLANS
7. DEPTH OF PVC LATERAL LINE, SEE PLANS AND SPECS
8. DEPTH OF DRIPLINE, REFER TO IRRIGATION LEGEND
9. PLANTER EDGE
10. LOCATE PERIMETER DRIPLINE LATERALS 2" MIN. AND 4" MAX. AWAY FROM EDGES.
11. MULCH AND PLANTING MATERIAL PER PLANTING PLAN

18 SUBSURFACE DRIPLINE

Scale: N.T.S.



1. DRIP OPERATION INDICATOR
2. 1/2" FPT CONNECTION FROM IRRIGATION LATERAL LINE
3. IRRIGATION LATERAL PIPE
4. SWING JOINT
5. FINISH GRADE IN LAWN. INSTALL INDICATOR FLUSH WITH FINISH GRADE IN TURF AREA.
6. ADJACENT MULCH
7. FINISH GRADE IN PLANTER AREA. INSTALL INDICATOR 1/2" ABOVE FINISH GRADE OF MULCH IN SHRUB AND GROUNDCOVER AREAS

NOTES:

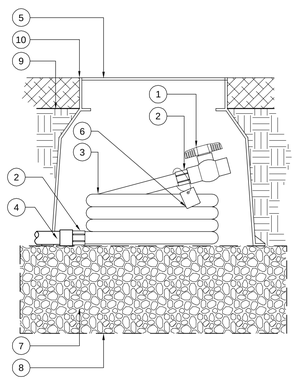
1. LOCATE INDICATOR WITHIN AN AREA ADJACENT TO A WALKWAY, CURB, ETC. AND AWAY FROM PLANT MATERIALS TO PROVIDE EASY VISUAL CONFIRMATION FROM A DISTANCE OF OPERATION.
2. COMPACT SOIL AROUND INDICATOR TO THE SAME DENSITY AS ADJACENT SOIL.

17 DRIP OPERATION INDICATOR

Scale: N.T.S.

NOTES:

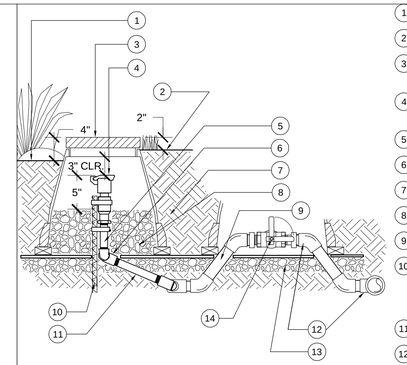
1. TAG EACH FLUSH VALVE WITH A PERMANENT METAL ID TAG. NUMBER SHALL CONINCIE WITH CONTROLLER STATION NUMBER. TAG SHALL BE PLACED TO AVOID BEING BURIED.
2. REFER TO SPECS FOR ADDITIONAL INFORMATION.



1. SCH. 40 PVC. BALL VALVE PER LEGENG.
2. IRRIGATION HOSE FITTING
3. 1/2" SIZE IRRIGATION HOSE. 30" MIN. LENGTH. COIL INSIDE VALVE BOX.
4. PVC EXHAUST HEADER PER PLANS AND LEGEND.
5. 10" ROUND VALVE BOX WITH LOCKING COVER AND SS BOLT
6. VALVE ID TAG. SEE NOTE #1.
7. 3/4" CRUSHED DRAIN ROCK, 6" MIN. DEPTH. EXTEND 6" BEYOND ALL EDGES OF VALVE BOX
8. 1/4" GALV. WIRE CLOTH. WRAP AROUND CRUSHED ROCK.
9. FINISH GRADE
10. SET VALVE BOX FLUSH WITH TOP OF MULCH LAYER.

16 MANUAL FLUSH VALVE

Scale: N.T.S.



NOTES:

1. ALL THREADED FITTINGS MUST HAVE 3/4" TEFLON TAPE.
2. ALL BRASS PIPE TO BE YELLOW BRASS.
3. MINIMUM LINE SIZE SUPPLYING A QUICK COUPLER MUST BE 1-1/2"
4. QUICK COUPLERS MUST BE NO MORE THAN 200' O.C. APART. LOCATE AT RCV MANIFOLDS WHEN POSSIBLE.
5. REFER TO DETAIL # FOR ALL ISOLATION BALL VALVE REQUIREMENTS.

1. FINISH GRADE AT PLANTER
2. FINISH GRADE AT TURF AREA
3. 10" ROUND VALVE BOX W/ BOLT DOWN COVER, AND SS HARDWARE
4. QUICK COUPLER VALVE PER LEGEND AND SPECS.
5. BRASS NIPPLE, TYP.
6. BRASS STREET ELL, TYP.
7. NATIVE SOIL COMPACTED TO
8. 1 CU. FT. 3/8" PEA GRAVEL
9. PRESSURE MAINLINE PER SPECS
10. #4 X 36" REBAR STAKE. SECURE QUICK COUPLER VALVE TO STAKE WITH (2) TWO STAINLESS STEEL CLAMPS
11. BRASS NIPPLE, 10" LENGTH MIN.
12. SCH. 80 PVC MAINLINE TEE OR ELL
13. LANDSCAPE FABRIC AND 1/4" GALV. WIRE MESH, TYP.
14. BRASS BALL VALVE W/ PVC. SCH. 80 MALE ADAPTERS.
15. CONCRETE BRICK SUPPORTS, THREE (3) SPACED EQUALLY ALONG PERIMETER BOTTOM.

15 QUICK COUPLER VALVE

Scale: N.T.S

MIG
800 HEARST AVENUE
BERKELEY, CA 94710
TEL (510) 845-7549
www.migcom.com

Date:	02-21-2023
Scale:	
Designed:	
Drawn:	CH
Checked:	JE
Proj. Engr:	
File:	

REVISIONS	DESIGN BY	DESIGN DATE	CITY APPR.	APPR. DATE

IMPROVEMENT PLANS FOR

ALL-INCLUSIVE PLAYGROUND AT JOLLYMAN PARK

CUPERTINO CALIFORNIA

FOR CITY OF CUPERTINO USE
PROJECT # _____

PUBLIC WORKS INSPECTOR:

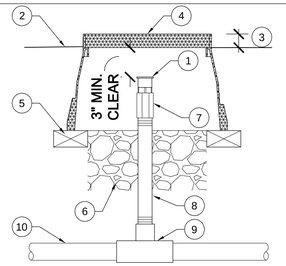
VOICE MAIL:

CITY OF CUPERTINO

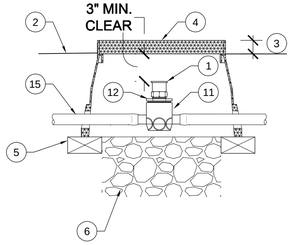
L4.52
IRRIGATION DETAILS

SHEET XX

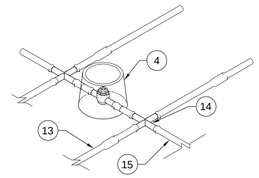
FEBRUARY 2023



A ARV PLUMBED TO PVC PIPE
SECTION ELEVATION



B ARV PLUMBED TO DRIPLINE
SECTION ELEVATION



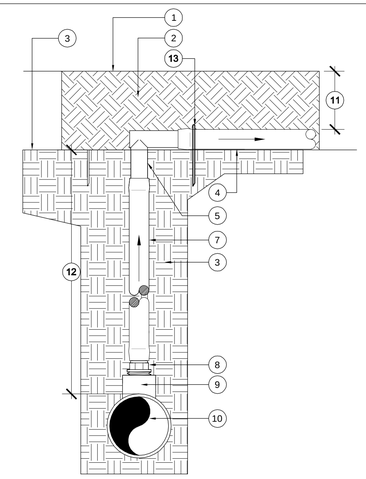
C ARV @ DRIPLINE
ISOMETRIC

NOTES:
1. ARV VALVES SHALL BE INSTALLED IN VALVE BOXES AT HIGHEST POINTS WITHIN SUB-SURFACE DRIP SYSTEM PER MNF'R GUIDELINES.
2. SEE LEGEND FOR LATERAL DEPTH AND SPACING.

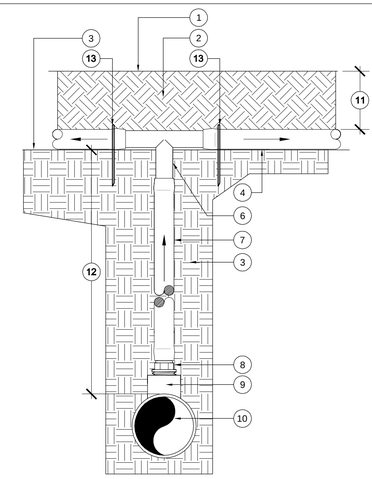
1. AIR VACUUM/RELIEF VALVE, REFER TO LEGEND
2. FINISH GRADE
3. SET TOP OF VALVE BOX ABOVE FINISH GRADE: 1/2" IN SEED, 1-1/2" IN SOD, 2-1/2" IN PLANTER
4. 10" ROUND VALVE BOX, SEE SPECS.
5. THREE (3) COMMON BRICKS FOR SUPPORT. CENTER EACH UNDER EDGE OF VALVE BOX EQUIDISTANT FROM EACH OTHER.
6. 3/4" CRUSHED ROCK, 6" MIN. DEPTH.
7. 1/2" PVC SCH. 80 COUPLING (THxTH)
8. 1/2" PVC SCH. 80 NIPPLE (LENGTH AS REQ.)
9. PVC REDUCTION TEE WITH 1/2" FEMALE THREADED INLET
10. PVC NON-PRESSURE LATERAL LINE. SIZE AND TYPE PER PLAN
11. 3/4" FPT COMBINATION TEE (INS x INS x TH)
12. 1/2" MPT REDUCER BUSHING.
13. DRIPLINE, TYPE AND DEPTH PER LEGEND
14. BARBED INSERT TEE FITTING, TYP.
15. BLANK POLYETHYLENE TUBING, TYP.

20 AIR VACUUM/RELIEF VALVE

Scale: N.T.S.



A MANIFOLD-ELL CONDITION
SECTION ELEVATION

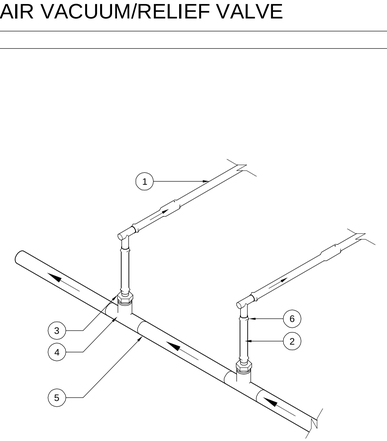


B MANIFOLD-TEE CONDITION
SECTION ELEVATION

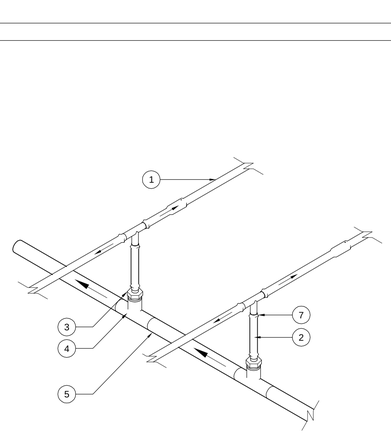
1. FINISH GRADE AT PLANTER
2. TOP SOIL. REFER TO SPECS
3. COMPACTED SUBGRADE. REFER TO SPECS.
4. DRIPLINE TUBING, REFER TO IRRIGATION LEGEND FOR ADDITIONAL INFORMATION
5. BARBED DRIP ELBOW FITTING
6. BARBED DRIP TEE FITTING
7. BLANK POLYETHYLENE DRIP TUBING
8. BARBED x 1/2" MPT ADAPTER
9. PVC TEE (SLxSLxTH) WITH 1/2" FPT INLET
10. PVC SUPPLY LATERAL LINE, SIZE AND TYPE PER PLAN
11. DEPTH OF MULCH, REFER TO SPECS.
12. DEPTH OF PVC LATERAL LINE, REFER TO IRRIGATION LEGEND
13. 4" GALVANIZED STAPLE. INSTALL OVER TUBING AT SPACING PER SPECS

19 DRIPLINE TO PVC LATERAL LINE TRANSITION (SUPPLY AND EXHAUST HEADER)

Scale: N.T.S.



A END FEED MANIFOLD SUPPLY
ISOMETRIC

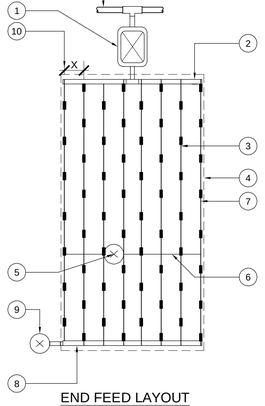


B CENTER FEED MANIFOLD SUPPLY
ISOMETRIC

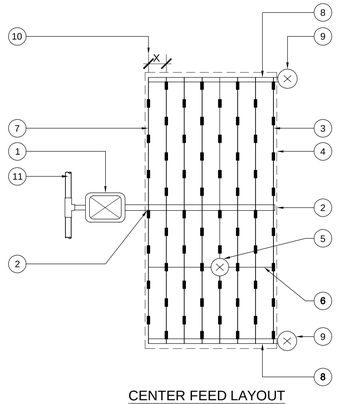
1. DRIPLINE, TYPE AND DEPTH PER IRRIGATION LEGEND
2. BLANK POLYETHYLENE TUBING
3. BARB X MPT ADAPTER
4. SCH. 40 PVC TEE WITH FPT OUTLET
5. NON-PRESSURE LATERAL DOWNSTREAM FROM DRIP REMOTE CONTROL VALVE ASSEMBLY
6. BARBED INSERT 90° ELL FITTING
7. BARBED INSERT TEE FITTING

22 DRIPLINE MANIFOLD SUPPLY

Scale: N.T.S



END FEED LAYOUT



CENTER FEED LAYOUT

1. DRIP REMOTE CONTROL VALVE ASSEMBLY. REFER TO IRRIGATION PLANS AND LEGEND
2. IRRIGATION NON-PRESSURE PVC LATERAL SUPPLY LINE (HEADER), PER IRRIGATION PLANS AND LEGEND
3. DRIPLINE TUBING LATERAL PER IRRIGATION LEGEND
4. PLANTING AREA PERIMETER
5. AIR/VACUUM RELIEF VALVE PER IRRIGATION LEGEND. INSTALL AT HIGH POINT(S) OF HYDROZONE. LOCATE IN FIELD.
6. AIR/VACUUM RELIEF LATERAL BLANK DRIPLINE TUBING. CONNECT PERPENDICULAR TO DRIPLINE USING MANUFACTURER APPROVED FITTINGS
7. INSTALL PERIMETER DRIPLINE LATERALS 2" TO 4" FROM EDGE OF HARDSCAPE, CURB, ETC.
8. IRRIGATION NON-PRESSURE PVC EXHAUST HEADER.
9. FLUSH VALVE PER IRRIGATION LEGEND. PLUMB TO NON-PRESSURE PVC LATERAL LINE
10. DISTANCES PER IRRIGATION LEGEND
11. IRRIGATION PRESSURE MAINLINE PER PLANS AND SPECS.

21 DRIPLINE LAYOUT (TYPICAL)

Scale: N.T.S.

MIG
800 HEARST AVENUE
BERKELEY, CA 94710
TEL (510) 845-7549
www.migcom.com

Date:	02-21-2023
Scale:	
Designed:	
Drawn:	CH
Checked:	JE
Proj. Engr:	
File:	

	REVISIONS	DESIGN BY	DESIGN DATE	CITY APPR.	APPR. DATE
△					

IMPROVEMENT PLANS FOR

ALL-INCLUSIVE PLAYGROUND AT JOLLYMAN PARK

CUPERTINO CALIFORNIA

FOR CITY OF CUPERTINO USE
PROJECT # _____

PUBLIC WORKS INSPECTOR:

VOICE MAIL:

CITY OF CUPERTINO

L4.53
IRRIGATION DETAILS

SHEET XX

FEBRUARY 2023

PLANTING SCHEDULE (Note: Preliminary plant palette for 50% set includes large variety for City review/comment. Not every plant will be used in final plans.)

CODE	BOTANICAL NAME / COMMON NAME	SPACING	HEIGHT x WIDTH	WATER / REFERENCE	EVGRN/ DECID	SUN / SHADE
TREES						
ACE MAC	Acer macrophyllum / Big Leaf Maple	As Shown	40-60'h x 30-50'w	M - WUCOLS	D	Full sun to shade
ACE RUB	Acer rubrum `Red Sunset` / Red Sunset Maple	As Shown	40-50'h x 30-35'w	M - WUCOLS	D	Full sun to part shade
ARB MAR	Arbutus 'Marina' / Marina arbutus	As Shown	20-40'h x 15-30'w	L - WUCOLS	E	Full sun
CED DEO	Cedrus deodara / Deodar cedar	As Shown	40-60'h x 20-30'w	L - WUCOLS	E	Full sun to part shade
CER CAN	Cercis canadensis / Eastern Redbud	As Shown	25-35'h x 25-35'w	M - WUCOLS	D	Full sun to part shade
CER OCC	Cercis occidentalis / Western Redbud	As Shown	10-18'h x 10-18'w	VL- WUCOLS	D	Full sun to part shade
GIN AUT	Ginkgo biloba `Autumn Gold` / Autumn Gold Maidenhair Tree	As Shown	30-50'h x 25-45'w	M - WUCOLS	D	Full sun to part shade
LAU NOB	Laurus nobilis 'Saratoga' / Saratoga Bay Laurel	As Shown	15-40'h x 15-30'w	L - WUCOLS	E	Full sun to part shade
PLA RAC	Platanus racemosa / California sycamore	As Shown	30-80'h x 20-50'w	M - WUCOLS	D	Full sun to part shade
PIN CAN	Pinus canariensis / Canary Island Pine	As Shown	50-80'h x 20-35'w	L - WUCOLS	E	Full sun to part shade
PIN HAL	Pinus halapensis / Aleppo Pine	As Shown	30-60'h x 20-40'w	L - WUCOLS	E	Full sun to part shade
QUE AGR	Quercus agrifolia / Coast Live Oak	As Shown	40-50'h x 60'w	VL- WUCOLS	E	Full sun to part shade
QUE AGR	Quercus suber / Cork Oak	As Shown	70'h x 70'w	L - WUCOLS	E	Full sun to part shade
SHRUBS, PERENNIALS, GRASSES						
ACH CAM	Achillea x 'Cameo' / Cameo Yarrow	18" o.c.	1-3'h	L - WUCOLS	E	Full sun to part shade
ANI RED	Anigozanthos 'Big Red' / Red Kangaroo Paw	2' o.c.	3-4'h x 2'w	L - WUCOLS	E	Full sun
ANI YEL	Anigozanthos 'Bush Dawn' / Yellow Kangaroo Paw	2' o.c.	4'h x 2-3'w	L - WUCOLS	E	Full sun
ARC HOW	Arctostaphylos 'Howard McMinn' / Howard McMinn Manzanita	As shown	6'h x 6'w	L - WUCOLS	E	Sun / Shade
CAR CAL	Carpenteria californica / Bush Anemone	6' O.C.	4'h	L-M PERRY	E	Full sun to part shade
CAR DIV	Carex divulsa / Berkeley Sedge	18" o.c	1-2'h x 2'w	L - WUCOLS	E	Sun / Shade
CAL KAR	Calamagrostis x acutiflora `Karl Foerster` / Feather Reed Grass	3' o.c.	3-5`h x 2-3'w	M-L PERRY	E	Full sun or partial shade
COT COG	Cotinus coggygria / Smoke Tree	As shown	10-15'h x 10-18'w	L - WUCOLS	D	Full sun to part shade
DIC ANT	Dicksonia antarctica / Tasmanian Tree Fern	As shown	10-15'h x 6-10'w	M - WUCOLS	E	Full to Part shade
DOD VIS	Dodonea viscosa / Hop Bush	As shown	10-15'h x 10-15'w	L - WUCOLS	E	Full sun to part shade
HEM ARB	Heteromeles arbutifolia / Toyon	6' o.c.	6-10'h x 6-8'w	L - WUCOLS	D	Full sun to shade
HEM SPP.	Hemerocallis spp. / Daylily (choose evergreen species)	30" o.c.	2-3'h x 2-3'w	M - WUCOLS	D/E	Full sun
LEO LEO	Leonotis leonarus / Lion's Tail	3' o.c.	4'h x 4-5'w	L - WUCOLS	semi-E	Sun
LEU RED	Leucadendron x 'Red Gem' / Red Conebush	4' o.c.	4'h x 4-5'w	L - WUCOLS	E	Sun
LEY CON	Leymus condensatus `Canyon Prince` / Canyon Prince Wild Rye	3' o.c.	2-3'h x 2-3'w	L - WUCOLS	E	Full sun to part shade
LOR CRI	Lorapetalum chinense 'Crimson Fire' / Crimson Fire Chinese Fringeflower	3' o.c.	2-3'h x 2-3'w	L - WUCOLS	E	Part shade to sun
MIM AUR	Mimulus aurantiacus / Sticky Monkey Flower	3' o.c.	2-3'h x 2-3'w	VL- WUCOLS	E	Full sun or partial shade
MUH CAP	Muhlenbergia capillaris / Pink Muhly	4' o.c.	3-4'h x 3-4"w	L - WUCOLS	E	Full sun or light shade
MUH LIN	Muhlenbergia lindheimeri / Lindheimer's Muhly	4' o.c.	3-4'h x 3-4'w	L - WUCOLS	E	Full sun or light shade
PEN HAM	Pennisetum alopecuroides 'Hameln' / Dwarf Fountain Grass	3' O.C.	2-3'h x 1-2'w	L - WUCOLS	E	Full sun to part shade
PHO SUN	Phormium 'Sunset' / New Zealand Flax	4' O.C.	4-5'h x 4-5'w	L - WUCOLS	E	Sun
PHO WAV	Phormium tenax `Yellow Wave` / New Zealand Flax	3' o.c.	3-4'h x 3-4'w	L - WUCOLS	E	Sun or shade
POL MUN	Polystichum munitum / Western Sword Fern	2' o.c.	2-4'h x 2-4'w	M - WUCOLS	E	Partial or full shade
RHA CAL	Rhamnus californica 'Mound San Bruno' / Coffeeberry	6' o.c.	3-4'h x 8-12'w	L - WUCOLS	E	Full sun to shade
RHA INT	Rhus integrifolia / Lemonade berry	As shown	6-10'h x 10-15'w	L - WUCOLS	E	Full sun to shade
SAL BAR	Salvia leucantha 'Santa Barbara' / S. Barbara Mexican Bush Sage	3' o.c	3'h x 3'w	L - WUCOLS	E	Full sun to part shade
GROUNDCOVER (Spreading or used in mass plantings)						
ARC PAC	Arctostaphylos x `Pacific Mist` / Pacific Mist Manzanita	24" o.c.	1-2'h	L - WUCOLS	E	Full sun to part shade
CEA CEN	Ceanothus x `Centennial` / Centennial Ceanothus	48" o.c.	0.5-1'h	L - WUCOLS	E	Full sun to part shade
CIS SKA	Cistus x skanbergii / Coral Rockrose	3' o.c.	2'h x 3-5' w	L - WUCOLS	E	Full sun
ESC CAL	Eschscholzia californica / California poppy	18" o.c.	1-2'h x 1-2' w	VL- WUCOLS	D	Full sun
HAK AUR	Hakonechloa macra `Aureola` / Golden Variegated Hakonechloa	2' o.c.	12"h x 2' w	M - WUCOLS	E	Shade/ Pt sun
LOM BRE	Lomandra longifolia `Breeze` / Mat Rush	3' o.c.	2-3'h x 2-4'w	L - WUCOLS	E	Sun / Shade
MYO PAR	Myoporum parvifolium 'Putah Creek' / PC Trailing Myoporum	3' o.c.	1'h x 8'w	L - WUCOLS	E	Full sun to part shade
OEN BER	Oenothera berlandieri / Mexican Evening Primrose	2' o.c.	10-12"h x 2-3`w	L - WUCOLS	D	Full sun
PEN MAR	Penstemon heterophyllus 'margarita bop' / Foothill Penstemon	24" o.c.	1.5-2'h	L - WUCOLS	E	Full sun to part shade
SAL BEE	Salvia x `Bee`s Bliss` / Sage	3' o.c	1.5'h	L - WUCOLS	E	Full sun
VINES						
DIS BUC	Distictis buccinatoria / Blood Red Trumpet Vine	As Shown	Climber	M - WUCOLS	E	Full sun to part shade
TEC CAP	Tecomaria capensis / Cape Honeysuckle	As Shown	Climber	L-M- WUCOLS	E	Full sun to part shade
TRA JAS	Trachelospermum jasminoides / Star Jasmine	As Shown	Climber	M - WUCOLS	E	Full sun or light shade
WIS SIN	Wisteria sinensis	As Shown	Climber	M - WUCOLS	D	Full sun to part shade
BIORETENTION PLANTS * PLACE 3 INCHES OF NON-FLOATABLE MULCH IN AREAS BETWEEN STORMWATER PLANTINGS AND SIDE SLOPES.						
CHO TEC	Chondropetalum tectorum / Cape Rush	As Shown	2-3'h x 2-3'w	L - WUCOLS	E	Full sun to full shade
IRI DOU	Iris douglasiana / Douglas Iris	2' o.c.	2'h x 2'w	L - WUCOLS	E	Full sun or light shade
JUN ELK	Juncus patens 'Elk Blue' / California Gray Rush	2' o.c.	2'h x 2'w	L - WUCOLS	E	Full sun or light shade

PLANTING NOTES:

1. ALL UNDERGROUND UTILITIES SHALL BE LOCATED BEFORE START OF WORK.
2. ALL GRADES SHALL BE APPROVED BY THE ENGINEER PRIOR TO PLANTING OF ANY PLANT MATERIALS.
3. CONTRACTOR SHALL LAYOUT TREES, SHRUBS AND GROUND COVERS AS SHOWN ON THE PLANS. LAYOUT OF PLANT MATERIALS, WHILE STILL IN CONTAINERS, SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION OF ANY PLANTS.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR AND REPLACEMENT OF ANY DAMAGE OR DESTRUCTION TO THE EXISTING PLANT MATERIALS AND TO RESTORE IT TO ITS ORIGINAL CONDITION TO THE SATISFACTION OF THE ENGINEER.
5. REFER TO SPECIFICATIONS FOR SOIL REQUIREMENTS, AMENDMENTS AND MORE PLANTING INFORMATION.
6. TREE, SHRUB AND GROUND COVER AREAS SHALL RECEIVE WEED CONTROL TREATMENT AS SPECIFIED IN THE ACCOMPANYING SPECIFICATIONS.
7. THE AREA OF GROUND COVER IS APPROXIMATE AND FOR BIDDING PURPOSES ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE REQUIRED NUMBER OF PLANTS TO COVER THE AREA WHICH IS SHOWN ON THE PLANS AT THE SPACING NOTED IN THE SCHEDULE.
8. UPON RECEIPT OF "NOTICE TO PROCEED", THE CONTRACTOR SHALL ORDER PLANT MATERIAL TO INSURE ADEQUATE QUANTITIES AND SIZES OF PLANT MATERIAL WILL BE AVAILABLE. COPY OF THE NURSERY INVOICE SHALL BE SUBMITTED TO THE PROJECT ENGINEER.
9. ALL PLANTS SHALL BE TRUE TO NAME, AND ONE OF EACH BUNDLE OR LOT SHALL BE TAGGED WITH THE NAME AND SIZE OF THE PLANT. IN ACCORDANCE WITH THE STANDARD OF PRACTICE RECOMMENDED BY THE AMERICAN ASSOCIATION OF NURSERYMEN.
10. AFTER PLANTING IS COMPLETE, FURNISH AND SPREAD MULCH TO 3" DEPTH OVER THE ENTIRE PLANTED AREA. MULCH SHALL BE PER SPECS. QUANTITY OF MULCH SHALL BE THE CONTRACTORS RESPONSIBILITY. SUBMIT SAMPLE PRIOR TO DELIVERY TO THE PROJECT SITE PER SPECS.
11. EXISTING PLANTING TO REMAIN WHICH IS DAMAGED DURING CONSTRUCTION, SHALL BE RESTORED TO PREEXISTING CONDITIONS WITH THE SAME PLANT MATERIALS IN MATURE SIZE.
12. EXISTING TURF DAMAGED DURING IRRIGATION AND UTILITY TRENCHING SHALL BE RESTORED OR REPAIRED TO MATCH EXISTING TURF.
13. ALL GROUND COVER SHALL BE TRIANGULARLY SPACED WITHIN EACH PLANTING AREA.

MIG
800 HEARST AVENUE BERKELEY, CA 94710
TEL (510) 845-7549
www.migcom.com

Z:\SHARED\BERKELEY\3000_CED\30902 JOLLYMAN PLAY\07 CDILS\X-PLANTING_30902.DWG

Date:	02-21-2023
Scale:	
Designed:	
Drawn:	CH
Checked:	JE
Proj. Engr:	
File:	

REVISIONS	DESIGN BY	DESIGN DATE	CITY APPR.	APPR. DATE

IMPROVEMENT PLANS FOR

ALL-INCLUSIVE PLAYGROUND AT JOLLYMAN PARK

CUPERTINO CALIFORNIA

FOR CITY OF CUPERTINO USE
PROJECT # _____

PUBLIC WORKS INSPECTOR:

VOICE MAIL:

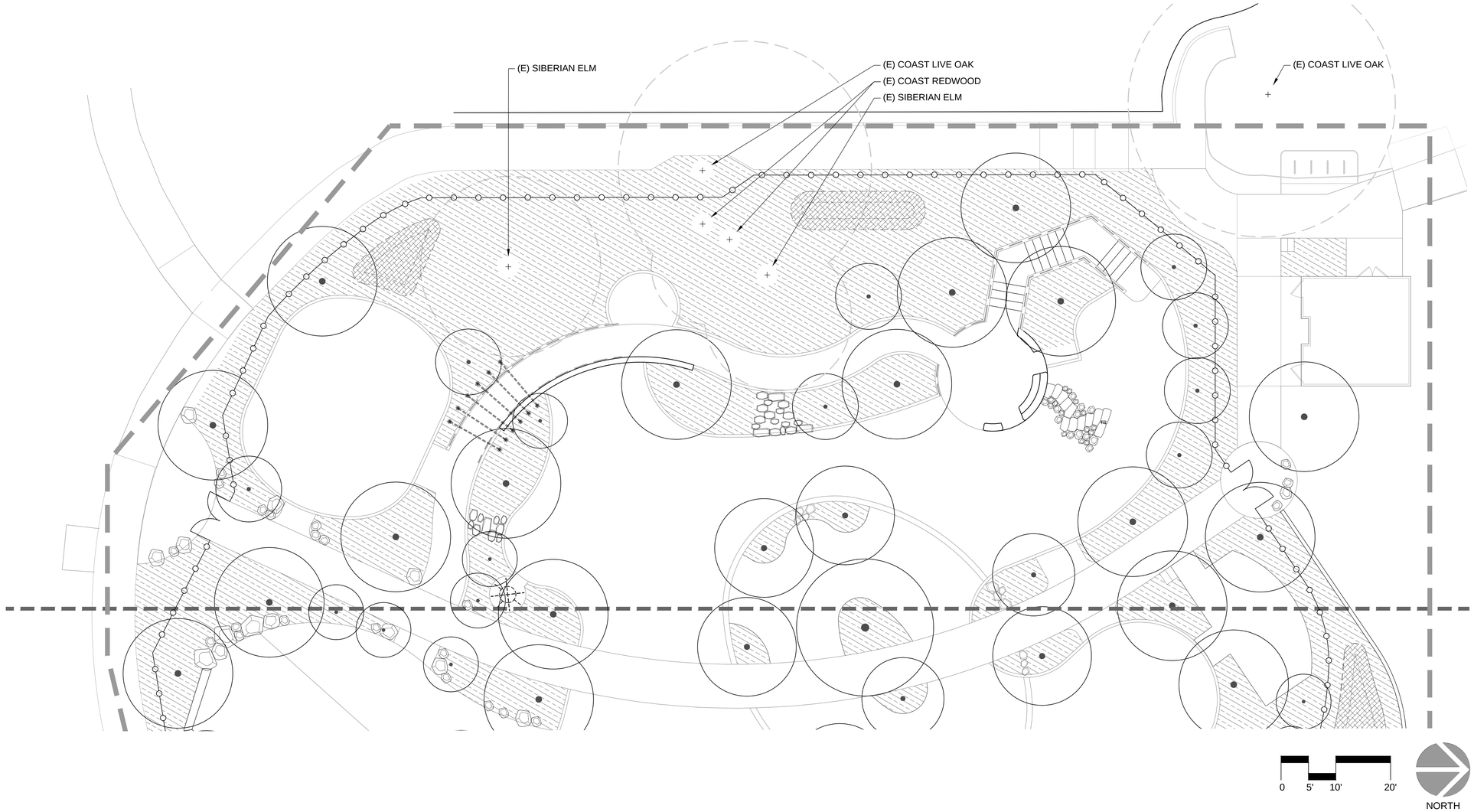
CITY OF CUPERTINO

L5.00
PLANTING SCHEDULE

SHEET

FEBRUARY 2023

ALL-INCLUSIVE PLAYGROUND AT JOLLYMAN PARK / 50% CD / NOT FOR CONSTRUCTION / 02-21-2023



LEGEND

- PLANTING AREA (SHRUBS / GROUNDCOVER)
- BIORETENTION PLANTING
- TREE
- (E) TREE TO BE PROTECTED

MIG
800 HEARST AVENUE
BERKELEY, CA 94710
TEL (510) 845-7549
www.migcom.com

Date:	02-21-2023
Scale:	
Designed:	
Drawn:	CH
Checked:	JE
Proj. Engr:	
File:	

	REVISIONS	DESIGN BY	DESIGN DATE	CITY APPR.	APPR. DATE
△					

IMPROVEMENT PLANS FOR

ALL-INCLUSIVE PLAYGROUND AT JOLLYMAN PARK

CUPERTINO CALIFORNIA

FOR CITY OF CUPERTINO USE
PROJECT # _____

PUBLIC WORKS INSPECTOR:

VOICE MAIL:

CITY OF CUPERTINO

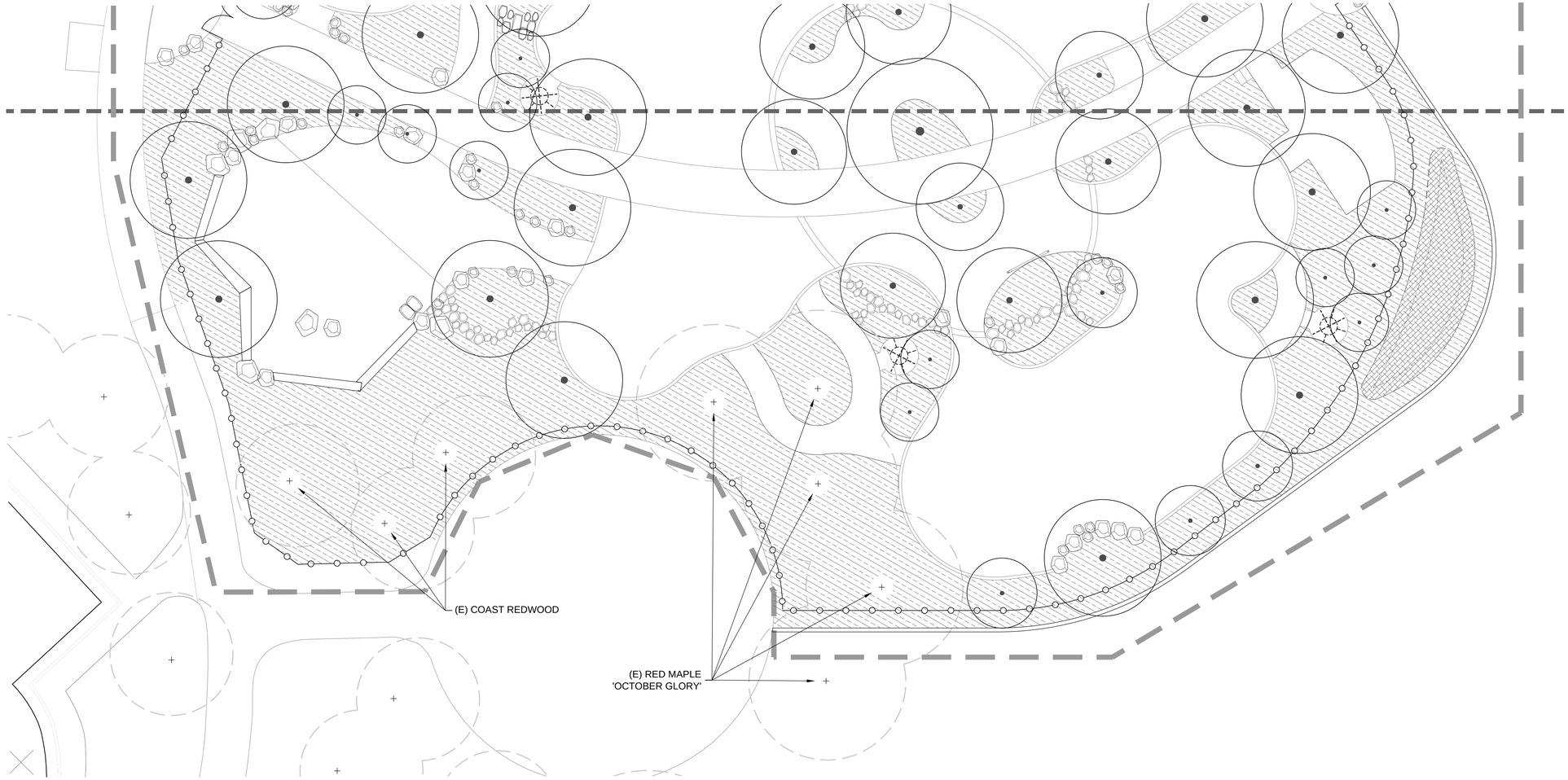
L5.10
PLANTING PLAN - WEST

SHEET

FEBRUARY 2023

Z:\SHARED\BERKELEY\3000_CEDS\30902 JOLLYMAN PLAY\07 CD\LS X-PLANTING_30902.DWG

ALL-INCLUSIVE PLAYGROUND AT JOLLYMAN PARK / 50% CD / NOT FOR CONSTRUCTION / 02-21-2023



LEGEND

- PLANTING AREA (SHRUBS / GROUNDCOVER)
- BIORETENTION PLANTING
- TREE
- (E) TREE TO BE PROTECTED

0 5' 10' 20'

NORTH

CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.

Z:\SHARED\BERKELEY\3000_CEDS\30902 JOLLYMAN PLAY\07 CD\L5.X-PLANTING_30902.DWG

MIG
800 HEARST AVENUE
BERKELEY, CA 94710
TEL (510) 845-7549
www.migcom.com

Date:	02-21-2023
Scale:	
Designed:	
Drawn:	CH
Checked:	JE
Proj. Engr:	
File:	

REVISIONS	DESIGN BY	DESIGN DATE	CITY APPR.	APPR. DATE

IMPROVEMENT PLANS FOR

ALL-INCLUSIVE PLAYGROUND AT JOLLYMAN PARK

CUPERTINO CALIFORNIA

FOR CITY OF CUPERTINO USE
PROJECT # _____

PUBLIC WORKS INSPECTOR:

VOICE MAIL:

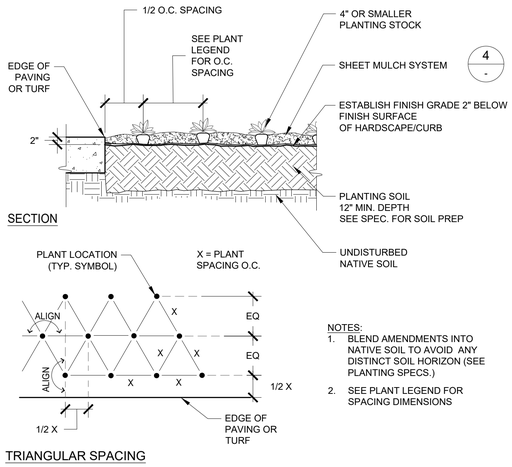
CITY OF CUPERTINO

L5.11
PLANTING PLAN - EAST

SHEET

FEBRUARY 2023

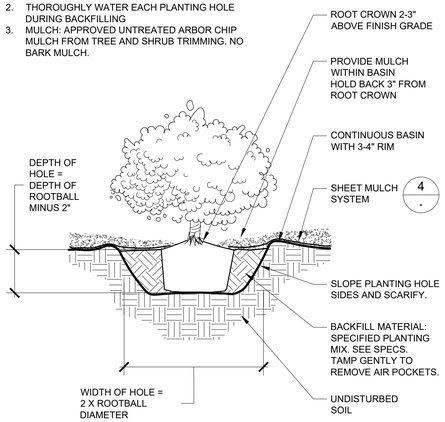
ALL-INCLUSIVE PLAYGROUND AT JOLLYMAN PARK / 50% CD / NOT FOR CONSTRUCTION / 02-21-2023



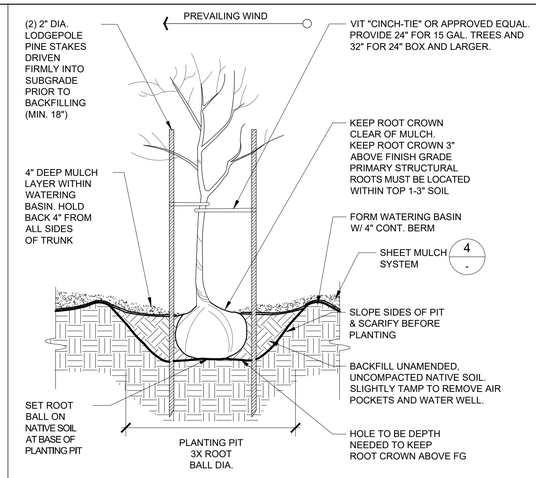
NOTES:
1. BLEND AMENDMENTS INTO NATIVE SOIL TO AVOID ANY DISTINCT SOIL HORIZON (SEE PLANTING SPECS.)
2. SEE PLANT LEGEND FOR SPACING DIMENSIONS

1 GROUNDCOVER PLANTING — Scale: 3/4" = 1'-0"

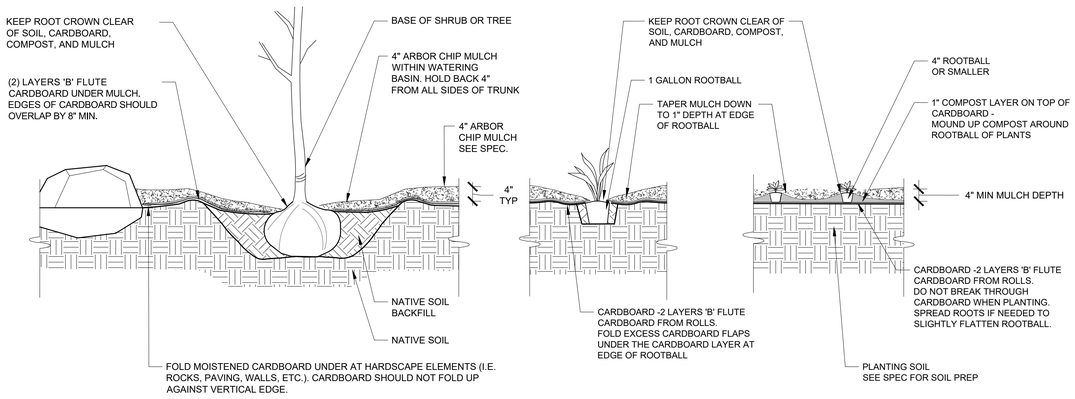
NOTES:
1. CUT ROOTBALL AS REQUIRED TO LOOSEN ROOTS AND PREVENT CIRCLING
2. THOROUGHLY WATER EACH PLANTING HOLE DURING BACKFILLING
3. MULCH: APPROVED UNTREATED ARBOR CHIP MULCH FROM TREE AND SHRUB TRIMMING. NO BARK MULCH.



2 SHRUB & PERENNIAL PLANTING — Scale: 1" = 1'-0"



3 TREE PLANTING & STAKING — Scale: 1/2" = 1'-0"

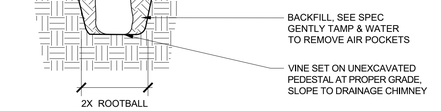


SHEET MULCH PROCEDURE:
1. SEE SPECS FOR SOIL PREP & SUB-SURFACE IRRIGATION
2. INSTALL INITIAL COMPOST & ALL 5 GALLON AND LARGER PLANTS (TAKING NOTE OF FINAL SURFACE GRADES) PRIOR TO CARDBOARD, SEE PLANTING SPECS.
3. APPLY TWO LAYERS OF B FLUTE RECYCLED CARDBOARD ON ALL SOIL SURFACES. OVERLAP EDGES OF CARDBOARD 8". WET THE CARDBOARD TO KEEP IT IN PLACE
4. SPREAD AN ADDITIONAL 1" COMPOST ON TOP OF CARDBOARD.
5. APPLY 1" MULCH ON TOP OF CARDBOARD LAYER
6. INSTALL 1 GALLON PLANTS THROUGH CARDBOARD BY MOVING MULCH ASIDE AND CAREFULLY CUTTING THROUGH CARDBOARD. DO NOT ALLOW ANY SOIL TO REMAIN ON TOP OF CARDBOARD.
7. INSTALL ANY 4" PLANTS AND PLUGS OR LINERS INTO MULCH AND COMPOST LAYERS (DO NOT PUNCH THROUGH CARDBOARD).
8. APPLY 3" ADDITIONAL MULCH FOR A TOTAL OF 4" MULCH, MINIMUM.
9. DO NOT BURY ROOT CROWNS OF PLANTS IN MULCH.
10. MAINTENANCE: REPLENISH MULCH AS NEEDED TO MAINTAIN SPECIFIED MULCH DEPTH

NOTES:
1. PLACE SHEET MULCH ON ALL SOIL SURFACES.
2. ALL CARDBOARD (100% RECYCLED B FLUTE CARDBOARD ROLLS) IS TO BE COVERED WITH A MINIMUM OF 4" MULCH.
3. WHERE SLOPE IS GREATER THAN 3:1 DO NOT USE CARDBOARD. APPLY ONLY A 2" LAYER OF COMPOST COVERED WITH 4" MULCH.

4 SHEET MULCH SYSTEM — Scale: 1/2" = 1'-0"

NOTES:
1. PLANT PIT TO BE MIN. 3 TIMES THE DIAMETER AND 1-1/2 TIMES THE HEIGHT OF THE ROOTBALL EXCEPT FOR PEDESTAL.
2. SEE SPEC FOR SOIL PREPARATION AND FERTILIZATION.
3. ROUGHEN SIDES AND BOTTOM OF ROOTBALL AND PLANT HOLE.
4. PLANT VINE STEM AS CLOSE TO COLUMN AS POSSIBLE BUT ALLOW 6" MIN. BETWEEN COLUMN AND PLANT.



5 VINE PLANTING — Scale: 1" = 1'-0"

Z:\SHARED\BERKELEY\3000_CEDS\30902 JOLLYMAN PLAY\07 CD\L5 20_PLANTING DETAILS_30902.DWG

MIG
800 HEARST AVENUE
BERKELEY, CA 94710
TEL (510) 845-7549
www.migcom.com

Date:	02-21-2023
Scale:	
Designed:	
Drawn:	CH
Checked:	JE
Proj. Engr:	
File:	

	REVISIONS	DESIGN BY	DESIGN DATE	CITY APPR.	APPR. DATE

IMPROVEMENT PLANS FOR

ALL-INCLUSIVE PLAYGROUND AT JOLLYMAN PARK

CUPERTINO CALIFORNIA

FOR CITY OF CUPERTINO USE
PROJECT # _____

PUBLIC WORKS INSPECTOR:

VOICE MAIL:

CITY OF CUPERTINO

L5.20
PLANTING DETAILS

SHEET

FEBRUARY 2023

ALL-INCLUSIVE PLAYGROUND AT JOLLYMAN PARK / 50% CD / NOT FOR CONSTRUCTION / 02-21-2023

ABBREVIATIONS

A	AMPERE	EMT	ELECTRICAL METALLIC TUBING	NIC	NOT IN CONTRACT
ABV	ABOVE	EOL	END OF LINE RESISTOR	NIEC	NOT IN ELECTRICAL CONTRACT
AF	AMPERE FRAME, AMPERE FUSE	EQP	EQUIPMENT	NO	NORMALLY OPEN
AFF	ABOVE FINISHED FLOOR	FA	FIRE ALARM	NTS	NOT TO SCALE
AIC	AMPERE INTERRUPTING CAPACITY	FACP	FIRE ALARM CONTROL PANEL	NUM, #	NUMBER
ARCH	ARCHITECTURAL	(F)	FUTURE	OC	ON CENTER
AS	AMPERE SWITCH	FIN	FINISH	P	POLE
AT	AMPERE TRIP	FLR	FLOOR	PA	PUBLIC ADDRESS
ATS	AUTOMATIC TRANSFER SWITCH	G, GND	GROUND	PB	PULL BOX
BKR	BREAKER	GRC	GALVANIZED RIGID CONDUIT	PF	POWER FACTOR
BLDG	BUILDING	HGT	HEIGHT	PH	PHASE
C	CONDUIT	HP	HORSEPOWER	PNL	PANEL
CATV	CABLE TELEVISION	IC	INTERCOM	PVC	POLYVINYL CHLORIDE
CB	CIRCUIT BREAKER	IDF	INTERMEDIATE DISTRIBUTION FRAME	(R)	EXISTING TO BE RELOCATED
CBC	CALIFORNIA BUILDING CODE	IMC	INTERMEDIATE METAL CONDUIT	REQD	REQUIRED
CD	CANDELA	INFO	INFORMATION	REQT(S)	REQUIREMENT(S)
CEC	CALIFORNIA ELECTRICAL CODE	JB	JUNCTION BOX	RM	ROOM
CFC	CALIFORNIA FIRE CODE	KAIC	KILOAMPERE INTERRUPTING CAPACITY	RSC	RIGID STEEL CONDUIT
CKT	CIRCUIT	KV	KILOVOLT	SAD	SEE ARCHITECTURAL DOCUMENTS
CL	CENTER LINE	KVA	KILOVOLT AMPERE	SHT	SHEET
CLG	CEILING	KW	KILOWATT	SPD	SURGE PROTECTIVE DEVICE
CO	CONDUIT ONLY	LTG	LIGHTING	STC	SIGNAL TERMINAL CABINET
COMM	COMMUNICATIONS	LV	LOW VOLTAGE	SW	SWITCH
CSFM	CALIFORNIA STATE FIRE MARSHALL	MAX	MAXIMUM	SWBD	SWITCHBOARD
CTR	CENTER	KCMIL	THOUSAND CIRCULAR MILS	T24	CALIFORNIA ENERGY CODE
(D)	DEMOLISH	MDF	MAIN DISTRIBUTION FRAME	TC	TERMINAL CABINET
DET	DETAIL	MECH	MECHANICAL	TEL	TELEPHONE
DIM	DIMENSION	MH	MANHOLE	TYP	TYPICAL
DIST	DISTRIBUTION	MIN	MINIMUM	UON	UNLESS OTHERWISE NOTED
DP	DISTRIBUTION PANEL	MTD	MOUNTED	V	VOLT
DWG	DRAWING	MTG	MOUNTING	W	WATT, WIRE
(E)	EXISTING	NC	NORMALLY CLOSED	WP	WEATHERPROOF
ELEC	ELECTRICAL	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION	XFMR	TRANSFORMER
EM	EMERGENCY				

NEW VS. EXISTING

	(N) CONDUIT - CONCEALED IN WALLS OR CEILING.
	(E) CONDUIT - CONCEALED IN WALLS OR CEILING.
	(E) CONDUIT - TO BE REMOVED.
$	(N) DEVICE OR EQUIP (EXAMPLE)
$	(E) DEVICE OR EQUIP (EXAMPLE)
$	(E) DEVICE OR EQUIP TO BE REMOVED (EXAMPLE)

WIRING, CONDUIT, AND RACEWAY SYMBOLS

	CONDUIT - CONCEALED IN WALLS OR CEILING.
	CONDUIT - EXPOSED.
	CONDUIT - UNDERGROUND / DIRECT BURIAL.
	CONDUIT HOME RUN TO PANEL, TERMINAL CABINET, ETC. SIZE CONDUIT ACCORDING TO SPECIFICATIONS AND APPLICABLE CODES. ALL 20A/1P BRANC CIRCUITS SHALL BE #12 AWG WIRES WITH #12 AWG NEUTRALS AND GROUNDS RUN A MAXIMUM OF 3 BRANCH CIRCUITS PER CONDUIT.
	CONDUIT - FLEX WITH CONNECTION.
	CONDUIT - STUB UP.
	CONDUIT - STUB DOWN.
E	CONDUIT - EMERGENCY POWER SYSTEM.
	CONDUIT - CAPPED.
	CONDUIT - CONTINUATION.
	SURFACE MOUNTED WIRE RACEWAY - INSTALL AT + 36" AFF UON.
	SURFACE MOUNTED WIRE RACEWAY UP/DOWN
Y X	IN-GRADE PULL BOX. SINGLE LINE = NON-TRAFFIC RATED. DOUBLE LINE = TRAFFIC RATED. "Y" = UNIQUE BOX IDENTIFIER. "X" = SYSTEM: P = POWER C = COMMUNICATIONS F = FIRE ALARM L = LIGHTING

LUMINAIRE SYMBOLS

	LUMINAIRE - POLE MOUNT SINGLE HEAD.

POWER DISTRIBUTION SYMBOLS (PLANS)

	PANELBOARD - FLUSH MOUNTED.
	PANELBOARD - SURFACE MOUNTED.
T	TRANSFORMER
	GROUND ROD
CH 2	EQUIPMENT TAG - SEE EQUIPMENT SCHEDULE "CH" = EQUIPMENT TYPE "2" = UNIQUE IDENTIFIER

POWER DISTRIBUTION SYMBOLS (SINGLE LINE)

	TRANSFORMER (SINGLE LINE)
	STANDARD / EMERGENCY PANEL BOARD
	CIRCUIT BREAKER, 3-POLE UON.
	GROUND ROD
X M	METER WITH CURRENT TRANSFORMERS. "X" INDICATES METER IDENTIFIER, SEE SCHEDULE. U = UTILITY METER M# = OWNER METER, SEE SPECIFICATIONS
M X	METER INSTALLED WITHIN EQUIPMENT
M X	METER IN STANDALONE ENCLOSURE
	CURRENT TRANSFORMERS

OWNERSHIP OF INSTRUMENTS OF SERVICE

1. ALL REPORTS, DRAWINGS, SPECIFICATIONS, COMPUTER FILES, FIELD DATA, NOTES AND OTHER DOCUMENTS AND INSTRUMENTS PREPARED BY THE CONSULTANT AS INSTRUMENTS OF SERVICE SHALL REMAIN THE PROPERTY OF THE CONSULTANT. THE CONSULTANT SHALL RETAIN ALL COMMON LAW, STATUTORY AND OTHER RESERVED RIGHTS, INCLUDING THE COPYRIGHT THERETO.
2. THE CLIENT ACKNOWLEDGES THE CONSULTANT'S CONSTRUCTION DOCUMENTS, INCLUDING ELECTRONIC FILES, AS INSTRUMENTS OF PROFESSIONAL SERVICE. NEVERTHELESS, THE FINAL CONSTRUCTION DOCUMENTS PREPARED UNDER THIS AGREEMENT SHALL BECOME THE PROPERTY OF THE CLIENT UPON COMPLETION OF THE SERVICES AND PAYMENT IN FULL OF ALL MONIES DUE TO THE CONSULTANT. THE CLIENT SHALL NOT REUSE OR MAKE ANY MODIFICATION TO THE CONSTRUCTION DOCUMENTS WITHOUT THE PRIOR WRITTEN AUTHORIZATION OF THE CONSULTANT. THE CLIENT AGREES, TO THE FULLEST EXTENT PERMITTED BY LAW, TO INDEMNIFY AND HOLD HARMLESS THE CONSULTANT, ITS OFFICERS, DIRECTORS, EMPLOYEES AND SUBCONSULTANTS (COLLECTIVELY, CONSULTANT) AGAINST ANY DAMAGES, LIABILITIES OR COSTS, INCLUDING REASONABLE ATTORNEY'S FEES AND DEFENSE COSTS, ARISING FROM OR ALLEGEDLY ARISING FROM OR IN ANY WAY CONNECTED WITH THE UNAUTHORIZED REUSE OR MODIFICATION OF THE CONSTRUCTION DOCUMENTS BY THE CLIENT OR ANY PERSON OR ENTITY THAT ACQUIRES OR OBTAINS THE CONSTRUCTION DOCUMENTS FROM OR THROUGH THE CLIENT WITHOUT THE WRITTEN AUTHORIZATION OF THE CONSULTANT.

CODES AND STANDARDS

1. 2022 CALIFORNIA BUILDING CODE (CBC), VOLUMES #1 AND #2 (PART 2,TITLE 24, CCR).
2. 2022 CALIFORNIA ELECTRICAL CODE (PART 3, TITLE 24, CCR).
3. 2022 CALIFORNIA MECHANICAL CODE (CMC) (PART 4, TITLE 24, CCR).
4. 2022 CALIFORNIA PLUMBING CODE (CPC) (PART 5, TITLE 24, CCR).
5. 2022 CALIFORNIA ENERGY CODE (PART 6,TITLE 24, CCR).
6. 2022 CALIFORNIA FIRE CODE (CFC) (PART 9,TITLE 24, CCR).
7. 2022 CALIFORNIA GREEN CODE (PART 11, TITLE 24, CCR).
8. 2022 CALIFORNIA REFERENCED STANDARDS CODE (PART 12, TITLE 24, CCR).
9. 2016 NFPA 72 NATIONAL FIRE ALARM CODE.
10. 2015 NFPA 720 STANDARDS FOR CARBON MONOXIDE DETECTION AND WARNING.
11. 2016 NFPA 13 STANDARDS FOR FIRE SPRINKLER SYSTEMS.
12. ADA STANDARDS FOR ACCESSIBLE DESIGN: ADA ACCESSIBILITY GUIDELINES (ADAAG) 28, PART 36 APPENDIX A.
13. ADA STANDARDS FOR ACCESSIBLE DESIGN - CODE OF REGULATIONS (INCLUDING AMENDMENTS).

DRAWING INDEX

GENERAL SYMBOLS

3 E2.1 / 3 -	PLAN OR DETAIL DESIGNATION "3" DENOTES DETAIL OR PLAN NUMBER "E2.1" DENOTES SHEET NUMBER. "-" DENOTES SAME SHEET.
2 E1.0 / 2 -	SECTION OR ELEVATION DESIGNATION "2" DENOTES SECTION OR ELEVATION NUMBER "E1.0" DENOTES SHEET NUMBER. "-" DENOTES SAME SHEET.
#	SHEET NOTE TAG - SEE APPLICABLE NOTE ON SAME SHEET
XXXX	FEEDER SCHEDULE TAG, SEE APPLICABLE SCHEDULE
XXXX	CONDUIT SCHEDULE TAG, SEE APPLICABLE SCHEDULE

GENERAL NOTES

A. THE CONTRACTOR SHALL VISIT THE PROJECT SITE PRIOR TO BIDDING AND ALLOW FOR ALL FIELD CONDITIONS. OBTAIN CONTRACT DOCUMENTS FOR ALL OTHER TRADES AND BE RESPONSIBLE FOR ALL ELECTRICAL WORK NOTED AND CALLED OUT ON THE CONTRACT DOCUMENTS. COORDINATE ELECTRICAL WORK WITH ALL OTHER TRADES ON PROJECT. COORDINATE ALL CONDUIT RUNS, ELECTRICAL EQUIPMENT AND PANEL LOCATIONS WITH ALL OTHER WORK TO AVOID CONFLICTS.

B. COMPLY WITH ALL APPLICABLE CODES AND REGULATIONS. MATERIALS AND EQUIPMENT SHALL BE U.L. AND CALIFORNIA STATE FIRE MARSHAL (CSFM) LISTED AND LABELED FOR THE APPLICATION.

C. BEFORE BEGINNING CONSTRUCTION, PROVIDE TO THE ARCHITECT A CONSTRUCTION SCHEDULE OF ELECTRICAL WORK. THE CONSTRUCTION SCHEDULE SHALL IDENTIFY ALL SIGNIFICANT MILESTONES WITH COMPLETION DATES.

D. OBTAIN AND PAY FOR ALL PERMITS, LICENSES AND INSPECTION FEES REQUIRED BY THIS CONTRACT WORK, UNLESS OTHERWISE NOTED.

E. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF PERSONS AND PROPERTY AND SHALL PROVIDE INSURANCE COVERAGE AS NECESSARY FOR LIABILITY, PERSONAL, PROPERTY DAMAGE, TO FULLY PROTECT THE OWNER, ARCHITECT AND ENGINEER FROM ANY AND ALL CLAIMS RESULTING FROM THIS WORK.

F. MAINTAIN RECORD DRAWINGS AT THE PROJECT SITE INDICATING ALL MODIFICATIONS TO ELECTRICAL SYSTEMS. AT THE CONCLUSION OF THE PROJECT, PROVIDE ACCURATE "AS-BUILT" DRAWINGS ACCEPTABLE TO THE ARCHITECT.

G. ALL MATERIALS PROVIDED FOR THE PROJECT SHALL BE NEW, UNLESS OTHERWISE NOTED. PROVIDE ALL INCIDENTAL MATERIALS REQUIRED FOR A COMPLETE INSTALLATION.

H. ALL ELECTRICAL EQUIPMENT INSTALLED OUTDOORS SHALL BE WEATHERPROOF. EXTERIOR CONDUIT RUNS INTO BUILDINGS SHALL BE INSTALLED WITH FLASHING, CAULKED AND SEALED. CONDUITS FOR EXTERIOR ELECTRICAL DEVICES SHALL BE RUN INSIDE BUILDING, UNLESS OTHERWISE NOTED. UNDERGROUND AND EXTERIOR CONDUIT SHALL HAVE WATERTIGHT FITTINGS.

I. ALL CONDUITS SHALL BE A MINIMUM 3/4," UNLESS OTHERWISE NOTED. POWER AND LIGHTING BRANCH CIRCUITS SHALL HAVE A MINIMUM TWO (2) #12 AWG AND ONE (1) #12 AWG GROUND TYPE THWN/THHN. ALL POWER AND FIRE ALARM WIRING SHALL BE RUN IN CONDUIT. THE USE OF ROMEX (NMC) OR BX (AC) CABLE IS NOT PERMITTED. PROVIDE ALL WIRES AND WIRE SIZES REQUIRED BY LATEST CODES.

J. ALL WIRE SIZING SHOWN ON THE CONSTRUCTION DOCUMENTS UTILIZES ASSUMED ROUTING AND CIRCUIT LENGTHS TO DETERMINE VOLTAGE DROP. CONTRACTOR SHALL VERIFY ALL CIRCUIT LENGTHS WITH ACTUAL FIELD CONDITIONS AND SHALL PROVIDE INCREASED WIRE AND CONDUIT SIZES AS REQUIRED TO LIMIT FEEDERS TO A MAXIMUM OF 2% VOLTAGE DROP AND BRANCH CIRCUITRY TO A MAXIMUM OF 3% VOLTAGE DROP.

K. ALL POWER CIRCUITS SHALL HAVE A DEDICATED NEUTRAL. SHARED NEUTRALS WITH TIE-BARS AT THE BREAKERS IN THE PANEL SHALL NOT BE ALLOWED.

L. CONDUITS SHALL NOT BE USED AS A GROUND PATH. ALL CONDUITS SHALL CONTAIN A GROUNDING CONDUCTOR, SIZED PER NEC/CEC REQUIREMENTS.

M. NOTE THAT BRANCH CIRCUIT WIRING IS NOT SHOWN. CIRCUIT NUMBERS ARE SHOWN ADJACENT TO ALL OUTLETS/FIXTURES/DEVICES. PROVIDE ALL BRANCH CIRCUIT WIRING BASED ON CIRCUIT NUMBERS SHOWN TO COMPLETE THE WIRING SYSTEM.

N. INCLUDE UTILITY COMPANY'S "CONTRACT-DOCUMENTS" WITH THE BID. REMAIN IN CONTACT WITH THE UTILITY COMPANY'S ENGINEERING DEPARTMENT THROUGHOUT THE PROJECT TO INSURE COORDINATION AND SCHEDULING OF WORK.

O. PROVIDE A PULL CORD IN EVERY EMPTY CONDUIT FOR USE IN FUTURE CONSTRUCTION. LABEL EACH END OF THE CONDUIT WITH TYPED, PERMANENT LABEL, TO IDENTIFY WHERE THE OPPOSING END TERMINATES.

P. ALL EQUIPMENT VOLTAGES AND AMPACITY IS BASED ON THE INFORMATION PROVIDED BY OTHER DISCIPLINES AS PART OF THE CONTRACT DOCUMENTS. VERIFY ALL VOLTAGES AND AMPACITIES OF EQUIPMENT WITH GENERAL AND OTHER SUB-CONTRACTORS PRIOR TO ROUGH-IN AND PROVIDE PROVISIONS FOR CORRECT BREAKER, WIRING, AND CONDUIT SIZES BASED ON ACTUAL EQUIPMENT TO BE USED FOR THE PROJECT.

Q. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SITE LOCATING ALL EXISTING UNDERGROUND SYSTEMS IN THE AREA OF UNDER GROUND WORK. REPAIR ALL DAMAGED SYSTEMS TO OWNERS SATISFACTION. MAINTAIN EXTREME CARE DURING TRENCHING AS EXISTING SYSTEMS ARE KNOWN TO EXIST IN THE AREA. THE DRAWINGS AND SPECIFICATIONS ARE FOR THE ASSISTANCE AND GUIDANCE OF THE CONTRACTOR. EXACT LOCATIONS, DISTANCES AND ELEVATIONS WILL BE GOVERNED BY ACTUAL CONDITIONS. COORDINATE THE CONTRACT DOCUMENTS AND FIELD CONDITIONS TO DETERMINE EXACT ROUTING AND FINAL TERMINATIONS FOR ALL WORK.

R. CONDUIT AND WIRING ARE SHOWN ON THESE PLANS DIAGRAMMATICALLY. EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD TO SUIT SITE CONDITIONS.

S. SEISMIC ANCHORAGE OF ALL ELECTRICAL EQUIPMENT SHALL BE PROVIDED IN ACCORDANCE WITH TITLE 24, CBC SECTION 1632A.

T. PLANS SHALL BE APPROVED BY THE AUTHORITY HAVING JURISDICTION PRIOR TO BEGINNING WORK. SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR REVIEW PRIOR TO PURCHASE.

U. SUFFICIENT ACCESS AND WORKING SPACE SHALL BE PROVIDED AND MAINTAINED ABOUT ALL ELECTRIC EQUIPMENT TO PERMIT READY AND SAFE ORPERATION AND MAINTENANCE OF SUCH EQUIPMENT PER CEC ARTICLE 110-26.

V. ALL CONTROLS, SWITCHES, AND ELECTRICAL RECEPTACLE OUTLETS SHALL BE NOT MORE THAN +48" AFF TO TOP OF THE OUTLET BOX, NOR LESS THAN +15" AFF TO BOTTOM OF OUTLET BOX PER CBC 11B-308.1.

W. CONTRACTOR SHALL PERFORM ALL TESTING AND COMPLETE ALL DOCUMENTATION FOR THE LIGHTING AND LIGHTING CONTROLS SYSTEM ACCEPTANCE TESTING PER REQUIREMENTS OF CEC SECTION 130.4. SUBMIT ALL DOCUMENTATION TO THE AHJ.

atium ENGINEERING
ELECTRICAL ENGINEERS
3533 York Lane
San Ramon, CA 94582
tel: 925.248.2044
email: info@atiumeng.com

MIG
800 HEARST AVENUE
BERKELEY, CA 94710
TEL (510) 845-7549
www.migcom.com

Date: 02-21-2023							
Scale:							
Designed:							
Drawn: DM							
Checked: DM							
Proj. Engr:							
File:		REVISIONS	DESIGN BY	DESIGN DATE	CITY APPR.	APPR. DATE	

NOT FOR CONSTRUCTION
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

IMPROVEMENT PLANS FOR

ALL-INCLUSIVE PLAYGROUND AT JOLLYMAN PARK

CUPERTINO CALIFORNIA

FOR CITY OF CUPERTINO USE
PROJECT # __________
PUBLIC WORKS INSPECTOR:
VOICE MAIL:

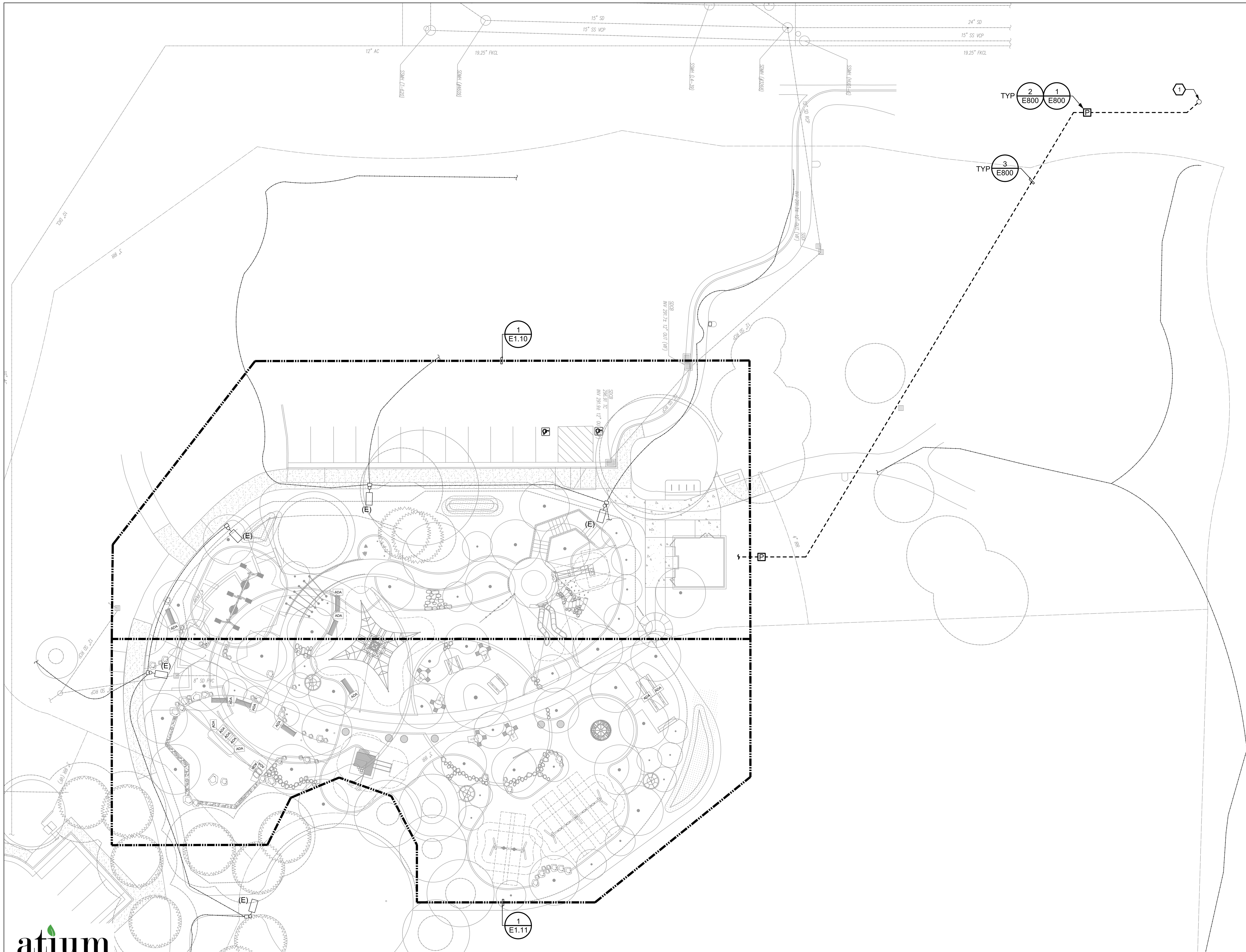
CITY OF CUPERTINO

E0.00
GENERAL INFORMATION

SHEET

FEBRUARY 2023

JOLLYMAN PARK ALL-INCLUSIVE PLAYGROUND / 50% SUBMITTAL / DATE TBD



1 OVERALL SITE PLAN

1" = 20'-0"

GENERAL NOTES

A. THE CONTRACTOR SHALL COORDINATE ALL ELECTRICAL SERVICE INSTALLATION AND/OR DEMOLITION WITH PG&E.

B. PROVISIONS SHALL BE MADE TO DISCONNECT EXISTING SERVICE EQUIPMENT AND RECONNECT NEW SERVICE EQUIPMENT WITH MINIMAL POWER DISRUPTION.

C. PROVIDE SEPARATE PULL BOXES FOR POWER AND COMMUNICATIONS CONDUIT. LABEL IN GRADE POWER PULL BOXES AS "ELECTRICAL." LABEL IN GRADE LIGHTING PULL BOXES AS "LIGHTING." LABEL UTILITY PULL BOXES PER UTILITY REQUIREMENTS.

D. CONCEAL ALL CONDUIT, UNLESS OTHERWISE NOTED.

E. AREA MAY CONTAIN UNDERGROUND RACEWAY. SITE LOCATE ALL EXISTING UNDERGROUND RACEWAY IN THIS AREA BEFORE TRENCHING. MAINTAIN EXTREME CARE WHEN TRENCHING.

F. COORDINATE EXACT LOCATIONS OF ALL ARCHITECTURAL, MECHANICAL, PLUMBING, LANDSCAPING AND CIVIL EQUIPMENT WITH ARCHITECTURAL, MECHANICAL, PLUMBING, LANDSCAPING AND CIVIL DRAWINGS.

G. CIRCUIT ALL DEVICES ON THIS SHEET TO PANELBOARD ___, UNLESS OTHERWISE NOTED.

H. CIRCUIT EXTERIOR LIGHT FIXTURES VIA ______. SEE DETAIL _/_._.

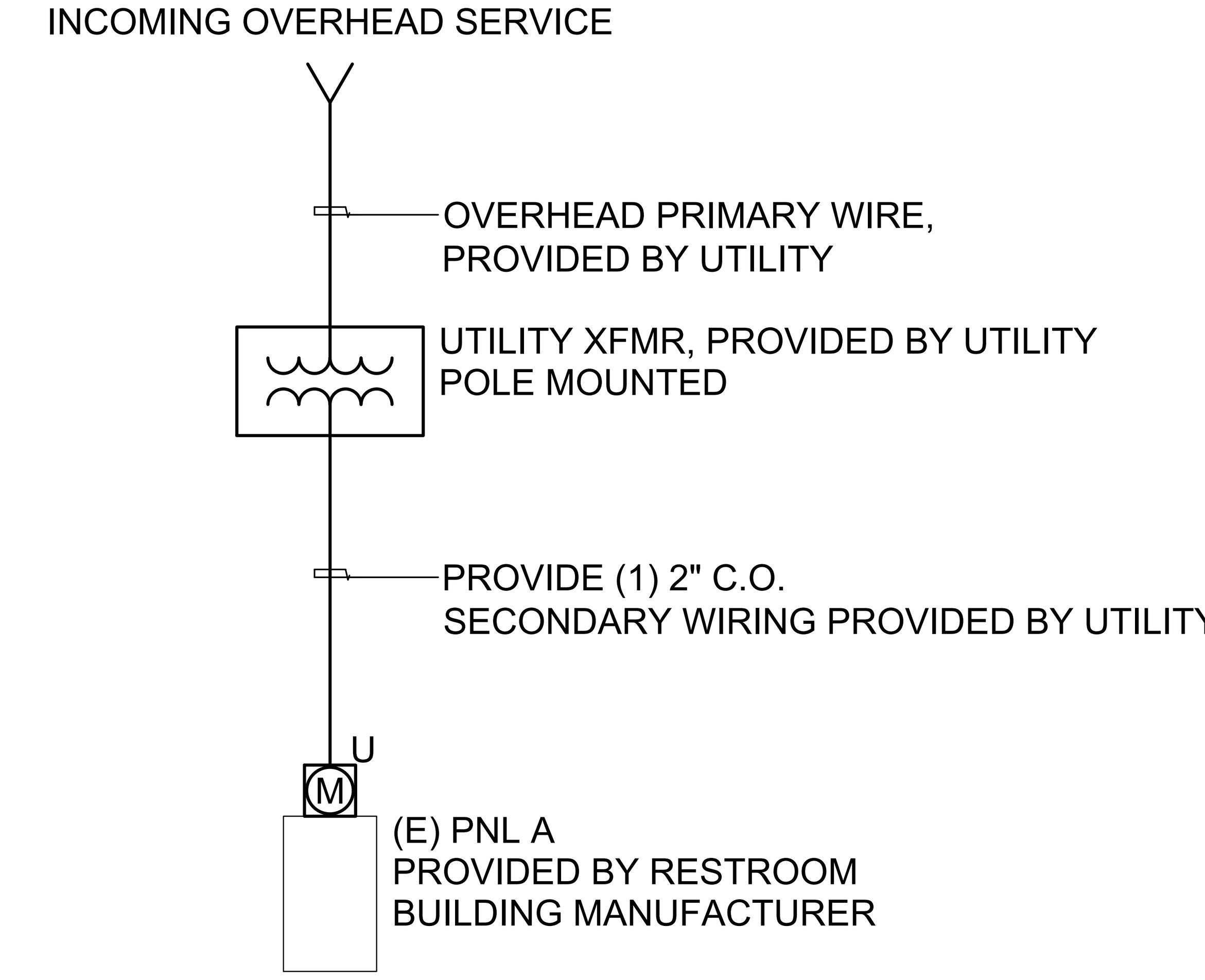
I. SEE DRAWING _/_.__ FOR LIGHT FIXTURE MOUNTING DETAILS.

J. CERTAIN FEEDER AND BRANCH CIRCUIT WIRE SIZES HAVE BEEN OVERSIZED TO COMPENSATE FOR VOLTAGE DROP. SPLICE WIRES TO COMPATIBLE SIZES FOR TERMINATION, ADJACENT TO EQUIPMENT CONNECT AS REQUIRED.

K. CONTRACTOR SHALL SIZE ALL IN GRADE PULL BOXES PER CODE OR FOR THEIR CONVENIENCE FOR PULLING WIRE, WHICHEVER IS LARGER.

SHEET NOTES

1. (E) UTILITY POLE TO REMAIN. COORDINATE WITH PG&E REPRESENTATIVE FOR CONNECTION REQUIREMENTS.



2 RISER DIAGRAM

NOT TO SCALE

atium ENGINEERING
ELECTRICAL ENGINEERS
3533 York Lane
San Ramon, CA 94582
tel: 925.248.2044
email: info@atiumeng.com

MIG
800 HEARST AVENUE
BERKELEY, CA 94710
TEL (510) 845-7549
www.migcom.com

Date:	02-21-2023						
Scale:							
Designed:							
Drawn:	DM						
Checked:	DM						
Proj. Engr:		△	REVISIONS	DESIGN BY	DESIGN DATE	CITY APPR.	APPR. DATE
File:							

NOT FOR CONSTRUCTION

IMPROVEMENT PLANS FOR

ALL-INCLUSIVE PLAYGROUND AT JOLLYMAN PARK

CUPERTINO CALIFORNIA

FOR CITY OF CUPERTINO USE
PROJECT # __________
PUBLIC WORKS INSPECTOR:
VOICE MAIL:

CITY OF CUPERTINO

E1.00
OVERALL SITE PLAN

SHEET

FEBRUARY 2023

JOLLYMAN PARK ALL-INCLUSIVE PLAYGROUND / 50% SUBMITTAL / DATE TBD

SHEET NOTES

1. PANELBOARD PROVIDED BY RESTROOM BUILDING MANUFACTURER.
2. PROVIDE NEW METER SOCKET ADJACENT TO PANELBOARD IN ACCORDANCE WITH UTILITY COMPANY REQUIREMENTS. PROVIDE CUTSHEET OF PROPOSED METER SOCKET TO UTILITY REPRESENTATIVE FOR APPROVAL PRIOR TO PURCHASE AND INSTALL.
3. (E) CONDUITS AND BOXES FEEDING (E) LIGHT FIXTURES TO REMAIN SHALL BE PROTECTED IN PLACE DURING CONSTRUCTION. LOCATIONS SHOWN ARE APPROXIMATE AND EXACT SHALL BE CONFIRMED PRIOR TO ANY DEMOLITION WORK.
4. SEE E100 FOR CONTINUATION.
5. SITE CONTRACTOR SHALL STUB CONDUITS TO WITHIN 5'-0" OF BUILDING FOOTPRINT. RESTROOM BUILDING MANUFACTURER SHALL INTERCEPT CONDUITS AND CONTINUE THEM TO METER AND PANEL.

GENERAL NOTES

A. THE CONTRACTOR SHALL COORDINATE ALL ELECTRICAL SERVICE INSTALLATION AND/OR DEMOLITION WITH PG&E.

B. PROVISIONS SHALL BE MADE TO DISCONNECT EXISTING SERVICE EQUIPMENT AND RECONNECT NEW SERVICE EQUIPMENT WITH MINIMAL POWER DISRUPTION.

C. PROVIDE SEPARATE PULL BOXES FOR POWER AND COMMUNICATIONS CONDUIT. LABEL IN GRADE POWER PULL BOXES AS "ELECTRICAL." LABEL IN GRADE LIGHTING PULL BOXES AS "LIGHTING." LABEL UTILITY PULL BOXES PER UTILITY REQUIREMENTS.

D. CONCEAL ALL CONDUIT, UNLESS OTHERWISE NOTED.

E. AREA MAY CONTAIN UNDERGROUND RACEWAY. SITE LOCATE ALL EXISTING UNDERGROUND RACEWAY IN THIS AREA BEFORE TRENCHING. MAINTAIN EXTREME CARE WHEN TRENCHING.

F. COORDINATE EXACT LOCATIONS OF ALL ARCHITECTURAL, MECHANICAL, PLUMBING, LANDSCAPING AND CIVIL EQUIPMENT WITH ARCHITECTURAL, MECHANICAL, PLUMBING, LANDSCAPING AND CIVIL DRAWINGS.

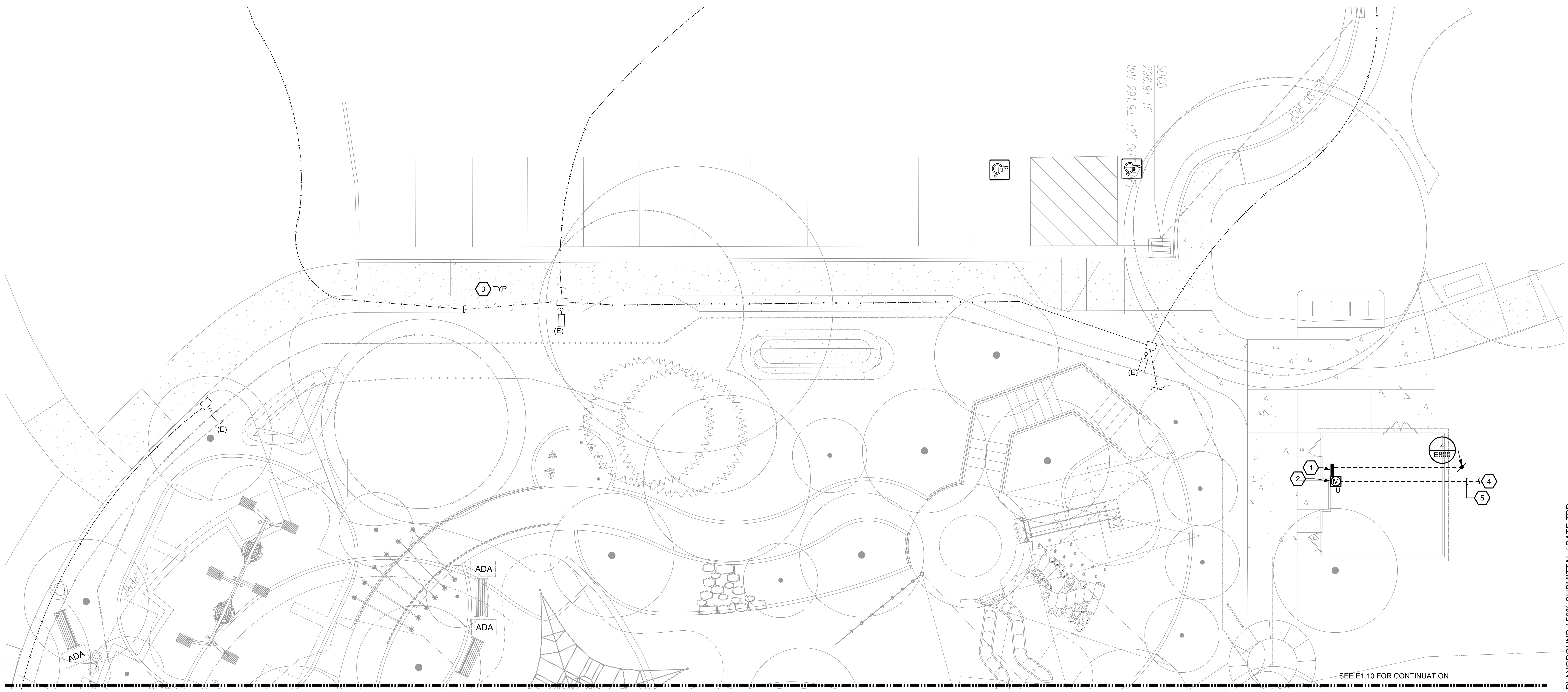
G. CIRCUIT ALL DEVICES ON THIS SHEET TO PANELBOARD ___, UNLESS OTHERWISE NOTED.

H. CIRCUIT EXTERIOR LIGHT FIXTURES VIA ______. SEE DETAIL _/_._.

I. SEE DRAWING _/_.__ FOR LIGHT FIXTURE MOUNTING DETAILS.

J. CERTAIN FEEDER AND BRANCH CIRCUIT WIRE SIZES HAVE BEEN OVERSIZED TO COMPENSATE FOR VOLTAGE DROP. SPLICE WIRES TO COMPATIBLE SIZES FOR TERMINATION, ADJACENT TO EQUIPMENT CONNECT AS REQUIRED.

K. CONTRACTOR SHALL SIZE ALL IN GRADE PULL BOXES PER CODE OR FOR THEIR CONVENIENCE FOR PULLING WIRE, WHICHEVER IS LARGER.



1 ENLARGED SITE PLAN - WEST
1/8" = 1'-0"

atium ENGINEERING
ELECTRICAL ENGINEERS
3533 York Lane
San Ramon, CA 94582
tel: 925.248.2044
email: info@atiumeng.com

G:\SHARED DRIVES\01_PROJECTS\MIG INC_48\2148.106 - JOLLYMAN ALL-INCLUSIVE PARK\05_DRAWINGS\01_DWGS\2148.106 - E100 - SITE PLAN.DWG

MIG
800 HEARST AVENUE
BERKELEY, CA 94710
TEL (510) 845-7549
www.migcom.com

Date: 02-21-2023						
Scale:						
Designed:						
Drawn: DM						
Checked: DM						
Proj. Engr:	△	REVISIONS	DESIGN BY	DESIGN DATE	CITY APPR.	APPR. DATE
File:						

REGISTERED PROFESSIONAL ENGINEER · ELECTRICAL · STATE OF CALIFORNIA
NOT FOR CONSTRUCTION

IMPROVEMENT PLANS FOR

ALL-INCLUSIVE PLAYGROUND AT JOLLYMAN PARK

CUPERTINO CALIFORNIA

FOR CITY OF CUPERTINO USE
PROJECT # __________

PUBLIC WORKS INSPECTOR:

VOICE MAIL:

CITY OF CUPERTINO

E1.10
ENLARGED SITE PLAN - WEST

SHEET

JOLLYMAN PARK ALL-INCLUSIVE PLAYGROUND / 50% SUBMITTAL / DATE TBD

FEBRUARY 2023

SHEET NOTES

1. (E) CONDUITS AND BOXES FEEDING (E) LIGHT FIXTURES TO REMAIN SHALL BE PROTECTED IN PLACE DURING CONSTRUCTION. LOCATIONS SHOWN ARE APPROXIMATE AND EXACT SHALL BE CONFIRMED PRIOR TO ANY DEMOLITION WORK.

GENERAL NOTES

A. THE CONTRACTOR SHALL COORDINATE ALL ELECTRICAL SERVICE INSTALLATION AND/OR DEMOLITION WITH PG&E.

B. PROVISIONS SHALL BE MADE TO DISCONNECT EXISTING SERVICE EQUIPMENT AND RECONNECT NEW SERVICE EQUIPMENT WITH MINIMAL POWER DISRUPTION.

C. PROVIDE SEPARATE PULL BOXES FOR POWER AND COMMUNICATIONS CONDUIT. LABEL IN GRADE POWER PULL BOXES AS "ELECTRICAL." LABEL IN GRADE LIGHTING PULL BOXES AS "LIGHTING." LABEL UTILITY PULL BOXES PER UTILITY REQUIREMENTS.

D. CONCEAL ALL CONDUIT, UNLESS OTHERWISE NOTED.

E. AREA MAY CONTAIN UNDERGROUND RACEWAY. SITE LOCATE ALL EXISTING UNDERGROUND RACEWAY IN THIS AREA BEFORE TRENCHING. MAINTAIN EXTREME CARE WHEN TRENCHING.

F. COORDINATE EXACT LOCATIONS OF ALL ARCHITECTURAL, MECHANICAL, PLUMBING, LANDSCAPING AND CIVIL EQUIPMENT WITH ARCHITECTURAL, MECHANICAL, PLUMBING, LANDSCAPING AND CIVIL DRAWINGS.

G. CIRCUIT ALL DEVICES ON THIS SHEET TO PANELBOARD ___, UNLESS OTHERWISE NOTED.

H. CIRCUIT EXTERIOR LIGHT FIXTURES VIA ______. SEE DETAIL _/_._.

I. SEE DRAWING _/_.__ FOR LIGHT FIXTURE MOUNTING DETAILS.

J. CERTAIN FEEDER AND BRANCH CIRCUIT WIRE SIZES HAVE BEEN OVERSIZED TO COMPENSATE FOR VOLTAGE DROP. SPLICE WIRES TO COMPATIBLE SIZES FOR TERMINATION, ADJACENT TO EQUIPMENT CONNECT AS REQUIRED.

K. CONTRACTOR SHALL SIZE ALL IN GRADE PULL BOXES PER CODE OR FOR THEIR CONVENIENCE FOR PULLING WIRE, WHICHEVER IS LARGER.

1 ENLARGED SITE PLAN - EAST

1/8" = 1'-0"

atium ENGINEERING
ELECTRICAL ENGINEERS
3533 York Lane
San Ramon, CA 94582
tel: 925.248.2044
email: info@atiumeng.com

MIG
800 HEARST AVENUE BERKELEY, CA 94710
TEL (510) 845-7549
www.migcom.com

Date: 02-21-2023						
Scale:						
Designed:						
Drawn: DM						
Checked: DM						
Proj. Engr:						
File:	△	REVISIONS	DESIGN BY	DESIGN DATE	CITY APPR.	APPR. DATE

NOT FOR CONSTRUCTION

IMPROVEMENT PLANS FOR

ALL-INCLUSIVE PLAYGROUND AT JOLLYMAN PARK

CUPERTINO CALIFORNIA

FOR CITY OF CUPERTINO USE
PROJECT # __________

PUBLIC WORKS INSPECTOR:

VOICE MAIL:

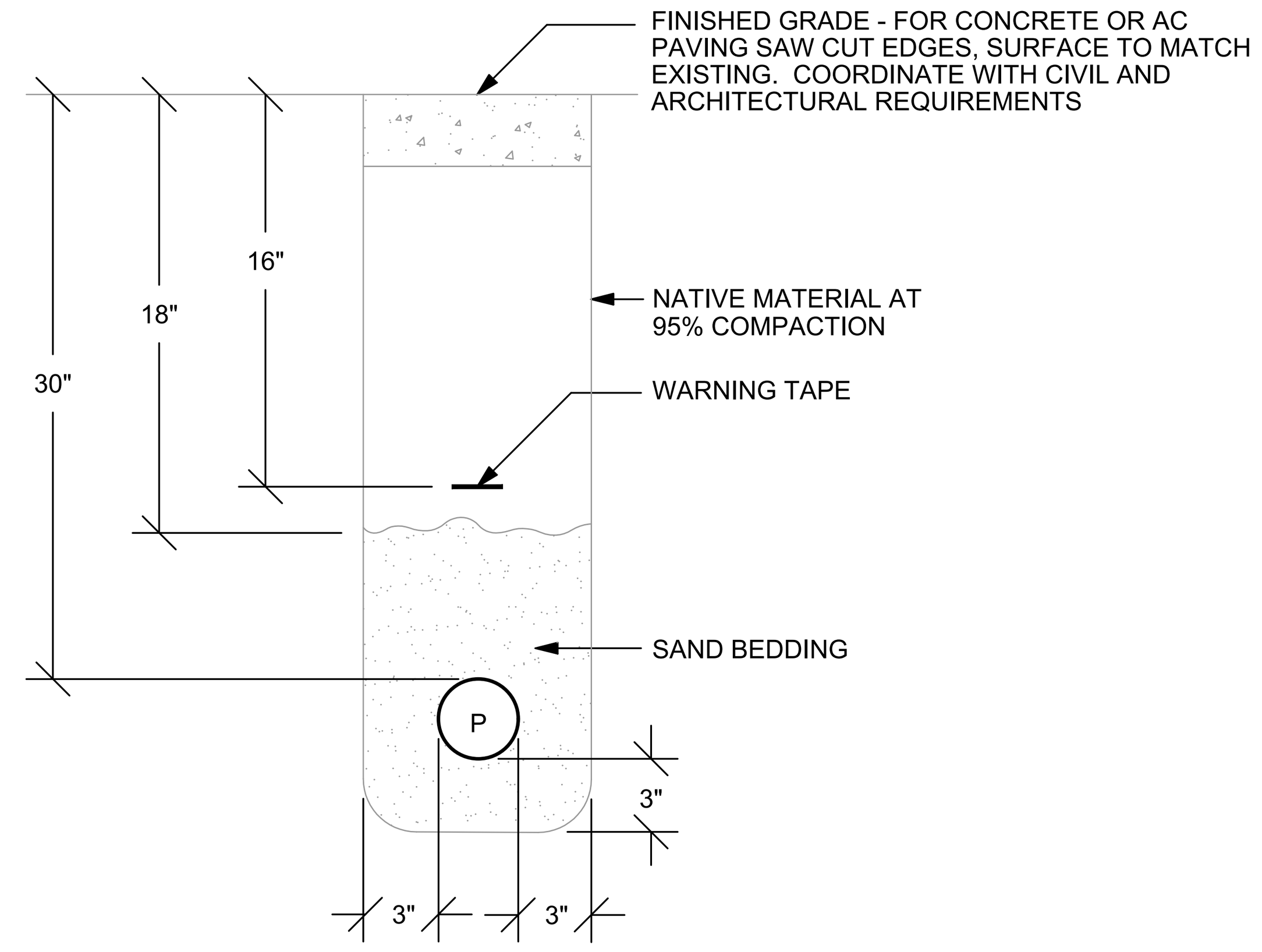
CITY OF CUPERTINO

E1.11
ENLARGED SITE PLAN - EAST

SHEET

FEBRUARY 2023

JOLLYMAN PARK ALL-INCLUSIVE PLAYGROUND / 50% SUBMITTAL / DATE TBD

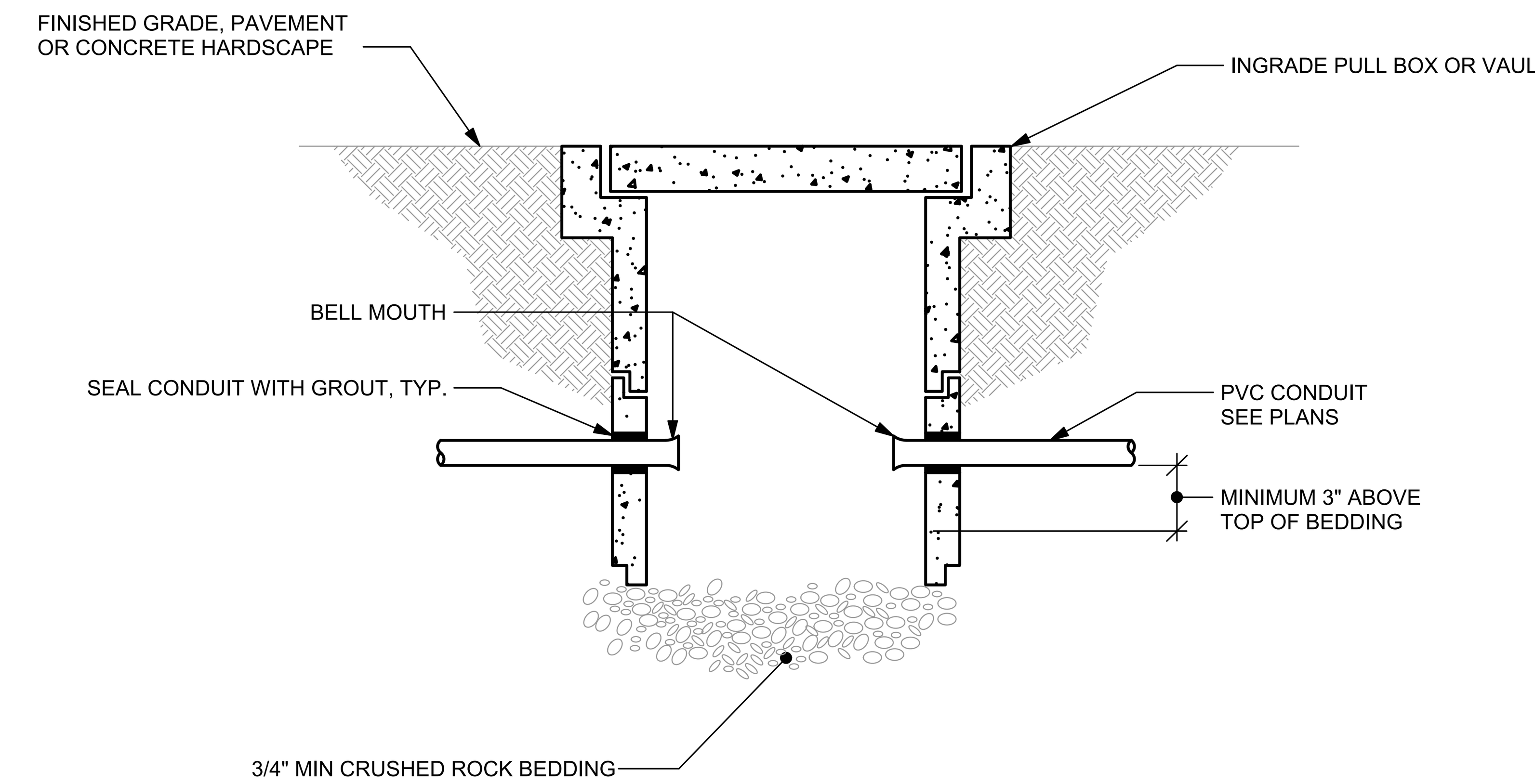


DETAIL NOTES

1. DETAIL PROVIDED FOR REFERENCE ONLY. PROVIDE TRENCH DIMENSIONS AND LAYOUT PER LATEST PG&E GREENBOOK REQUIREMENTS.
2. QUANTITY OF CONDUITS SHOWN IS FOR EXAMPLE ONLY. PROVIDE QUANTITY OF CONDUITS AS SHOWN ON CONTRACT DOCUMENTS AND AS REQUIRED PER PG&E GREENBOOK REQUIREMENTS.

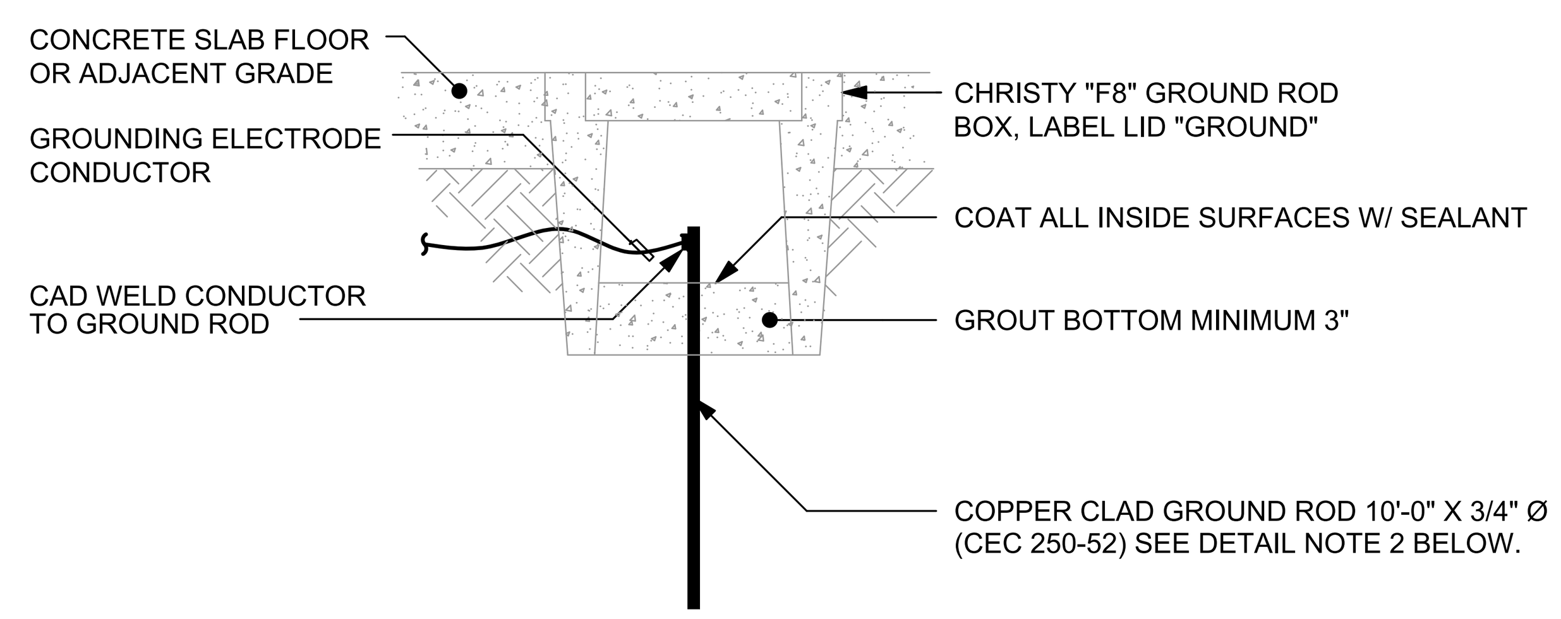
3 TYPICAL PG&E TRENCH

NOT TO SCALE



1 INGRADE PULL BOX CONDUIT TERMINATION

NOT TO SCALE

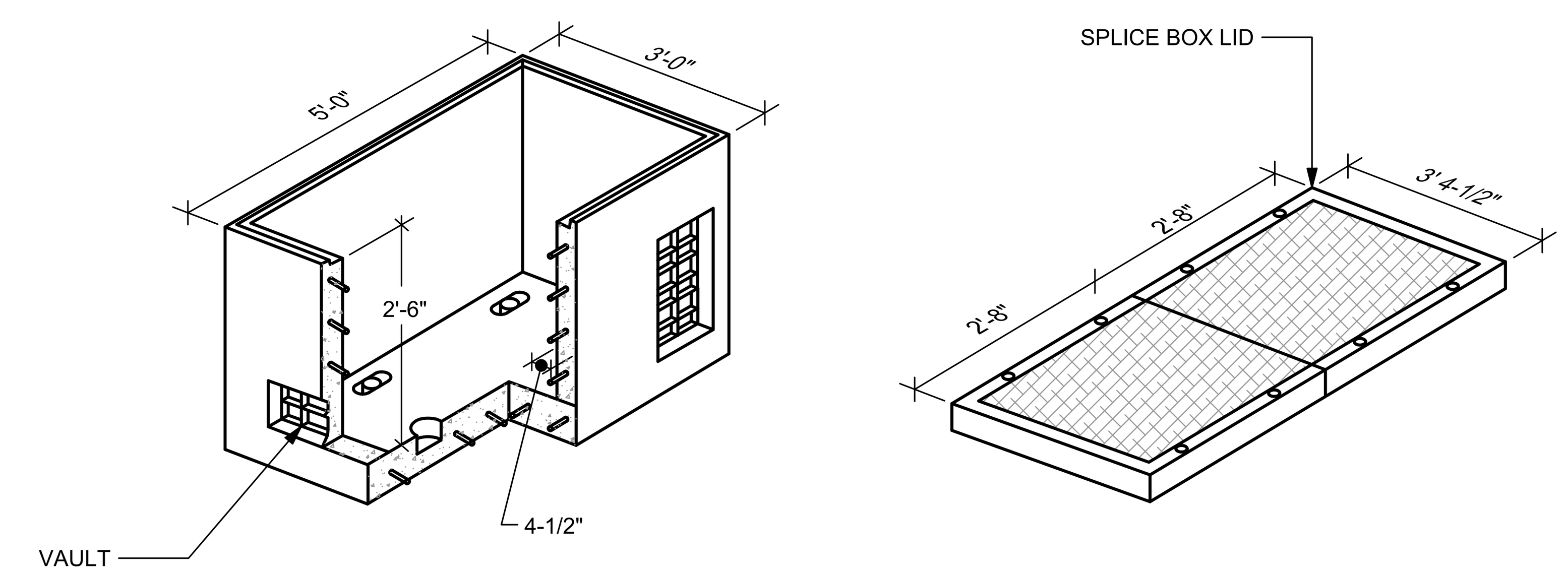


DETAIL NOTES

1. SIZE OF CONDUCTORS SHALL COMPLY WITH CEC TABLE 250-122.
2. PROVIDE A MINIMUM OF (1) GROUND ROD AND GROUND ROD BOX, LOCATED NEAR MAIN SERVICE EQUIPMENT. CHECK RESISTANCE TO GROUND, IF RESISTANCE EXCEEDS 25 OHMS, INSTALL ADDITIONAL GROUND RODS AND GROUND ROD BOXES AS REQUIRED. (CEC 250-56)
3. GROUNDING TEST MUST BE BY INDEPENDENT LICENSED ELECTRICAL CONTRACTOR OR TESTING LABORATORY. PROJECT CONTRACTOR IS NOT ELIGIBLE TO RUN TEST.

4 GROUND ROD

NOT TO SCALE



DETAIL NOTES

1. HEAVY DUTY REINFORCED CONCRETE BOX WITH STANDARD KNOCKOUTS AND PULLING IRONS. CONFORM WITH PG & E REQUIREMENTS.

2 3' X 5' PG&E ELECTRICAL PULL BOX

NOT TO SCALE

G:\SHARED DRIVES\01_PROJECTS\MIG INC_48\2148.106 - JOLLYMAN ALL-INCLUSIVE PARK\05_DRAWINGS\01_DWGS\2148.106 - E800 - DETAILS.DWG

atium ENGINEERING
ELECTRICAL ENGINEERS
3533 York Lane
San Ramon, CA 94582
tel: 925.248.2044
email: info@atiumeng.com

MIG
800 HEARST AVENUE
BERKELEY, CA 94710
TEL (510) 845-7549
www.migcom.com

Date:	02-21-2023						
Scale:							
Designed:							
Drawn:	DM						
Checked:	DM						
Proj. Engr:							
File:		△	REVISIONS	DESIGN BY	DESIGN DATE	CITY APPR.	APPR. DATE

NOT FOR CONSTRUCTION

IMPROVEMENT PLANS FOR

ALL-INCLUSIVE PLAYGROUND AT JOLLYMAN PARK

CUPERTINO CALIFORNIA

FOR CITY OF CUPERTINO USE
PROJECT # ___________

PUBLIC WORKS INSPECTOR:

VOICE MAIL:

CITY OF CUPERTINO

E8.00
DETAILS

SHEET