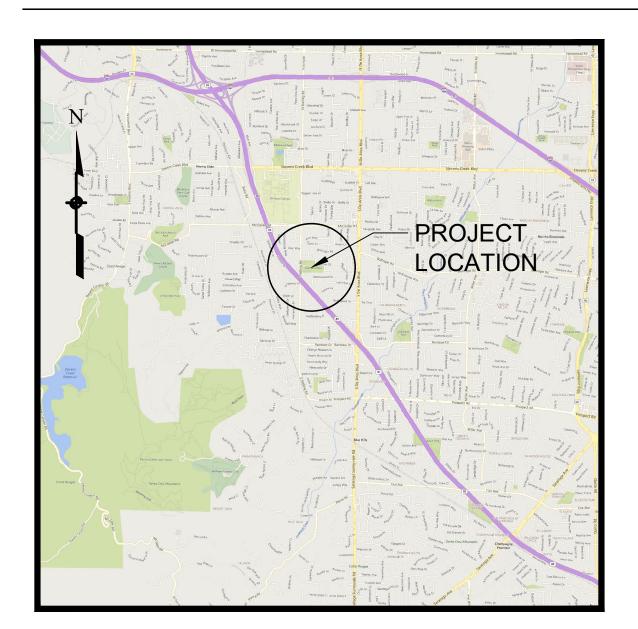


# ALL-INCLUSIVE PLAYGROUND AT JOLLYMAN PARK

CUPERTINO, CALIFORNIA

PROJECT NO. XXXXX



## **LOCATION MAP**

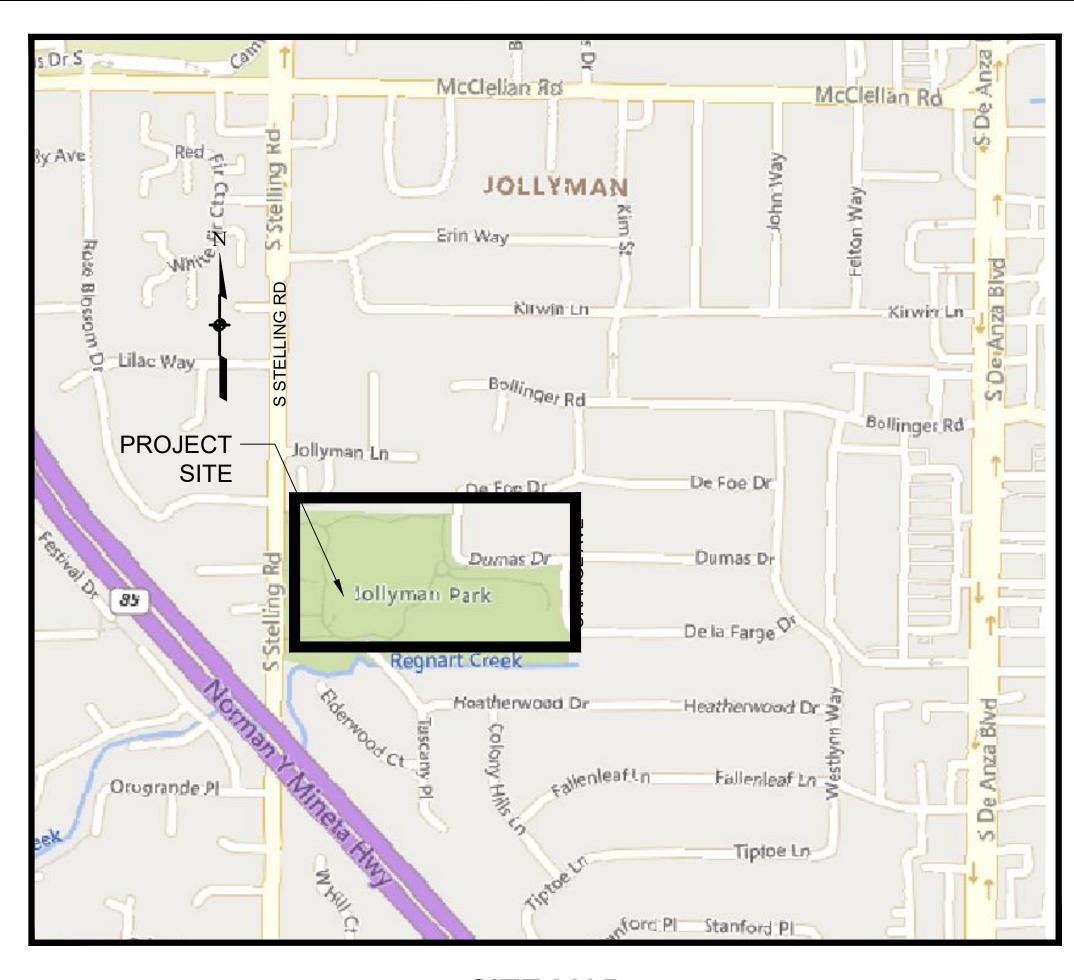
## PROJECT BASIS OF BEARING

GET INFORMATION FROM SURVEY DEPARTMENT

## PROJECT BENCHMARK

**ELEV DATUM:** 

GET INFORMATION FROM SURVEY DEPARTMENT



## SITE MAP

## SHEET INDEX

TITLE	DRAWING	TITLE	DRAWING
G0.00	COVER SHEET	L4.00	IRRIGATION LEGEND
G0.10	PROJECT DIRECTORY & GENERAL NOTES	L4.01	IRRIGATION NOTES
		L4.10	IRRIGATION DEMOLITION PLAN - WEST
CIVIL		L4.11	IRRIGATION DEMOLITION PLAN - EAST
C0.00	CIVIL GENERAL NOTES	L4.12	IRRIGATION PLAN - WEST
C0.10	EXISTING CONDITIONS	L4.13	IRRIGATION PLAN - EAST
C1.10	DEMOLITION PLAN	L4.50	IRRIGATION DETAILS
C2.20	BEST MANAGEMENT PRACTICES	L4.51	IRRIGATION DETAILS
C3.10	GRADING AND DRAINAGE PLAN - WEST	L4.52	IRRIGATION DETAILS
C3.11	GRADING AND DRAINAGE PLAN - EAST	L4.53	IRRIGATION DETAILS
C4.10	UTILITY PLAN - WEST		
C4.11	UTILITY PLAN - EAST	L5.00	PLANTING SCHEDULE
C5.10	STORMWATER MANAGEMENT PLAN	L5.10	PLANTING PLAN - WEST
C6.00	CONSTRUCTION DETAILS	L5.11	PLANTING PLAN - EAST
C6.01	CONSTRUCTION DETAILS	L5.20	PLANTING DETAILS
LANDSCAP	PE	ELECTRICA	.L
L1.10	MATERIALS & DETAIL REFERENCE PLAN - WEST	E0.00	GENERAL INFORMATION
L1.11	MATERIALS & DETAIL REFERENCE PLAN - EAST	E1.00	OVERALL SITE PLAN
L2.10	LAYOUT PLAN - WEST	E1.10	ENLARGED SITE PLAN - WEST
L2.11	LAYOUT PLAN - EAST	E1.11	ENLARGED SITE PLAN - EAST
L3.10	CONSTRUCTION DETAILS	E8.00	DETAILS
L3.11	CONSTRUCTION DETAILS		
L3.12	CONSTRUCTION DETAILS		



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.

Date:	02-21-2023						
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Designed:							$\setminus$
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Proj. Engr:		Λ	REVISIONS	DESIGN DESIGN	CITY	APPR.	

IMPROVEMENT PLANS FOR

## ALL-INCLUSIVE PLAYGROUND AT JOLLYMAN PARK

FOR CITY OF CUPERTINO USE PROJECT #	CITY OF CUPERTINO
PUBLIC WORKS INSPECTOR:  VOICE MAII:	G0.00 COVER SHEET
VOICE MAIL:	SHEET

RCE 66077

CITY ENGINEER SIGNATURE

CHAD MOSLEY CITY ENGINEER

HOLLOW STRUCTURAL STEEL

INTERIOR DIMENSION

INVERT

LOW POINT MAXIMUM

LIMIT OF WORK

VERT.

WW/%

**VERTICAL** 

WESTBOUND

WIDE WITH PERCENT

WITH

## 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.
- 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

800 HEARST AVENUE BERKELEY, CA 94710

www.migcom.com

ALL-INCLUSIVE PLAYGROUND
AT JOLLYMAN PARK

FOR CITY OF CUPERTINO USE
PROJECT #

PUBLIC WORKS
INSPECTOR:

VOICE MAIL:

CITY OF
CUPERTINO

G0.10
PROJECT DIRECTORY
AND GENERAL NOTES

SHEET

0

FEBRUARY 2023

CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITABLE AND TOTALL BERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABIL ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE

L.O.W.

CITY ENGINEER DURING STREET CONSTRUCTION.

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

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.

IS TO BE COMPLETED, AT THE SOLE EXPENSE OF THE OWNER OR CONTRACTOR.

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

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,

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

18. EXISTING PAVEMENT THAT IS REMOVED OR DAMAGED SHALL BE REPLACED AS REQUIRED BY THE CITY ENGINEER.

Existing Production in the New York State of the English to Regular ST THE ST

19. MANHOLE FRAMES AND COVERS SHALL BE BROUGHT TO FINISH GRADE PRIOR TO FINAL SIGNOFF.

CONTRACTOR SHALL CONTACT THE CITY FOR FIELD OBSERVATION PRIOR TO REMOVING TREE ROOTS.

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

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 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

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

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.

STATE OF CALIFORNIA STANDARD SPECIFICATIONS.

DISTRICT ENGINEER HAS PROVIDED WRITTEN ACCEPTANCE OF THESE PLANS.

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

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

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

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 — CITYc. 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

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

21. CONDITIONS OF APPROVAL TO BE MET DURING CONSTRUCTION:

MODIFICATIONS OR DEPARTURE IS TO BE DONE.

• 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)
 CUPERTING SANITARY DISTRICT INITIAL (VISUAL) INSPECTION REQUIRED. CONTRACTOR SHALL LEAVE NEW PIPE

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 \_\_\_\_\_

CUPERTINO SANITARY DISTRICT

BENJAMIN T. PORTER, DISTRICT ENGINEER

## PROJECT GENERAL NOTES

. 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.

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.

PIPE LENGTHS SHOWN ON PLANS ARE FOR ENGINEERING CALCULATIONS ONLY AND ARE NOT INTENDED AS BID QUANTITIES OR FOR ORDERING MATERIALS.
 JOINT TRENCH LINES AND APPURTENANCES ARE SHOWN FOR INFORMATION ONLY. CONTRACTOR SHALL REFERENCE JOINT TRENCH PLANS FOR INSTALLATION OF THESE FACILITIES.

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.

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.

2. 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**

. 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.

### <u>DEMOLITION NOTES</u>

CONTRACTOR SHALL REMOVE FROM SITE AND DISPOSE OF IN A LAWFUL MANNER EXISTING STRUCTURES, UTILITIES, AND OTHER FEATURES AS INDICATED ON

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

**DESCRIPTION** 

<u>SYMBOL</u>

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 & CATY 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.

## <u>GEOTECHNICA</u>

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

PRIVATE STORM DRAIN EASEMENT AGGREGATE BASE P.S.D.E. ASPHALT CONCRETE FLUSH CURB PUBLIC SERVICE EASEMENT ARFA DRAIN FINISHED FLOOR ELEVATION AGGREGATE FINISHED GRADE P.U.E. PUBLIC UTILITY EASEMENT APPROXIMATE FIRE HYDRANT BUBBLER BOX FLOW LINE POLYVINYL CHLORIDE BEGINNING OF CURVE FORCE MAIN FACE OF BUILDING POINT OF VERTICAL INTERSECTION Z BEGIN CURB RETURN FINISHED PAVEMENT REINFORCED CONCRETE PIPE BENCH MARK RIM ELEVATION BLOWOFF BLOWOFF VALVE REDUCED PRESSURE BEGIN VERTICAL CURVE PRINCIPAL ASSEMBLY BACK OF WALK GARAGE ELEVATION RESILIENT SURFACE BOTTOM OF WAL GAS METER RIGHT OF WAY HIGH POINT CONCRETE SLAB HIGH VOLTAGE CUL-DE-SAC INGRESS/EGRESS EASEMENT CURB & GUTTER STORM DRAIN CENTERLINE STORM DRAIN EASEMENT IRRIGATION CORRUGATED METAL PIPE SDMH JOINT TRENCH STORM DRAIN MANHOLE CL FANOUT LATERAL CONCRETE SJWC SAN JOSE WATER I FNGTH CURB RETURN COMPANY LINEAR FEET CENTER OF VERTICAL CURVE SANITARY SEWER LIP OF GUTTER SANITARY SEWER LOW POINT DECOMPOSED GRANITE MANHOLE DROP INLET STREET MAXIMUM DUCTILE IRON PIPE STATION MANHOLE SIDEWALK MINIMUM T´OR TELE TELEPHONE MONUMEN<sup>\*</sup> TOP AND BOTTOM ORIFICE TOP OF CURB FLECTRIC TEMPORARY NORTH/NEW TOP OF GRATE NUMBER END OF CURVE TOP OF PAVEMENT NOT TO SCALE P.A.E. END OF CURB RETURN PUBLIC ACCESS EASEMENT VERTICAL CURVE **ELEVATION** PCC VERTICAL MERGENCY VEHICLE WATFR PAD ELEVATION ACCESS EASEMEN PACIFIC GAS AND ELECTRIC END VERTICAL CURVE PROPERTY LINE FACHWAY WATERLINE POINT OF CONNECTION **EXISTING** WATER METER

POINT OF REVERSE CURVE

**ABBREVIATIONS** 

**DESCRIPTION** 

<u>SYMBOL</u>

**DESCRIPTION** 

WATER VALVE

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 DESIGN CITY APPR. DATE

IMPROVEMENT PLANS FOR

# ALL-INCLUSIVE PLAYGROUND AT JOLLYMAN PARK

FOR CITY OF CUPERTINO USE
PROJECT # \_\_\_\_\_ CITY OF
CUPERTINO

PUBLIC WORKS
INSPECTOR:

C0.00
CIVIL GENERAL NOTES

VOICE MAIL:

SHEET

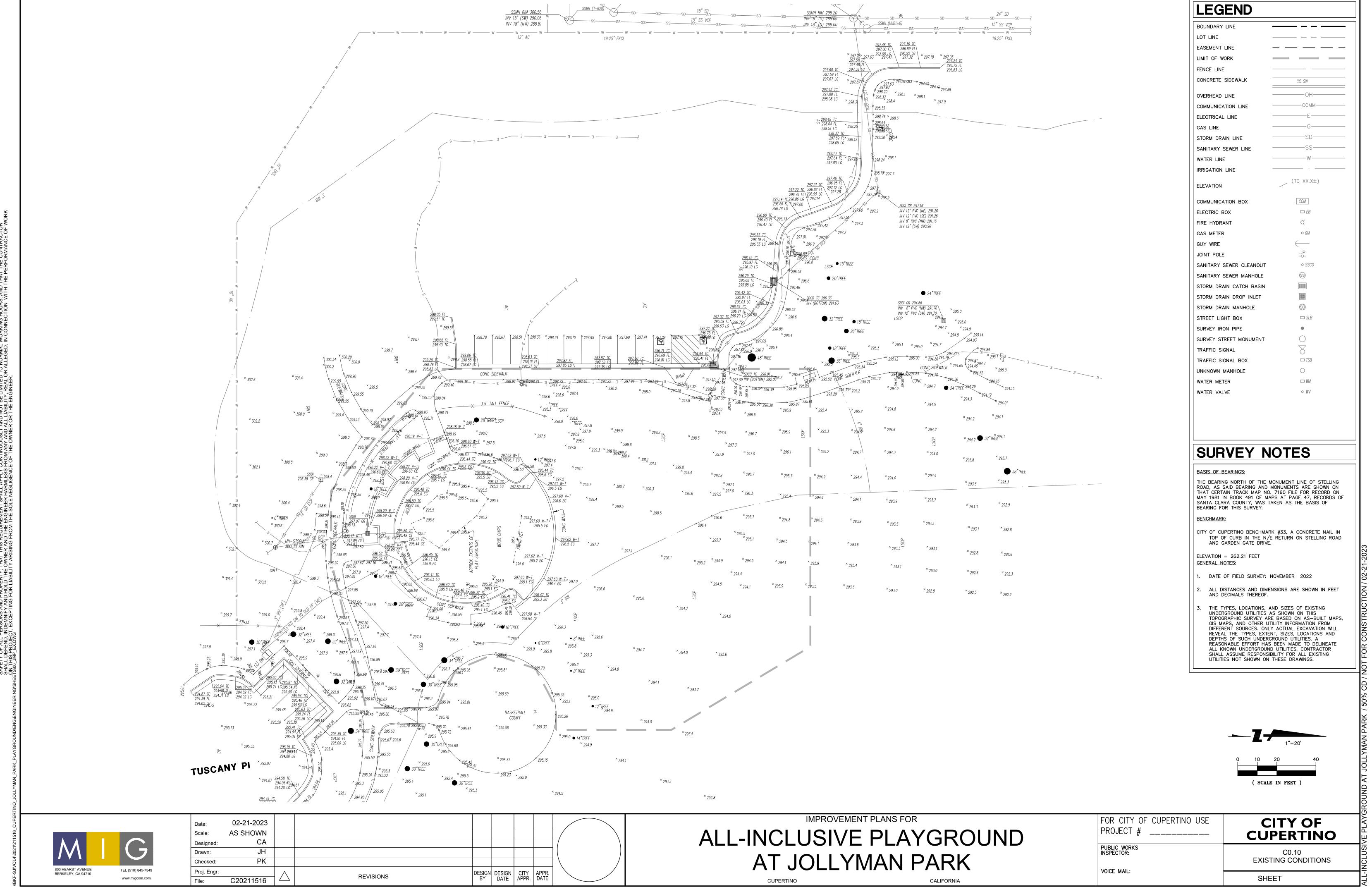
FEBRUARY 2023

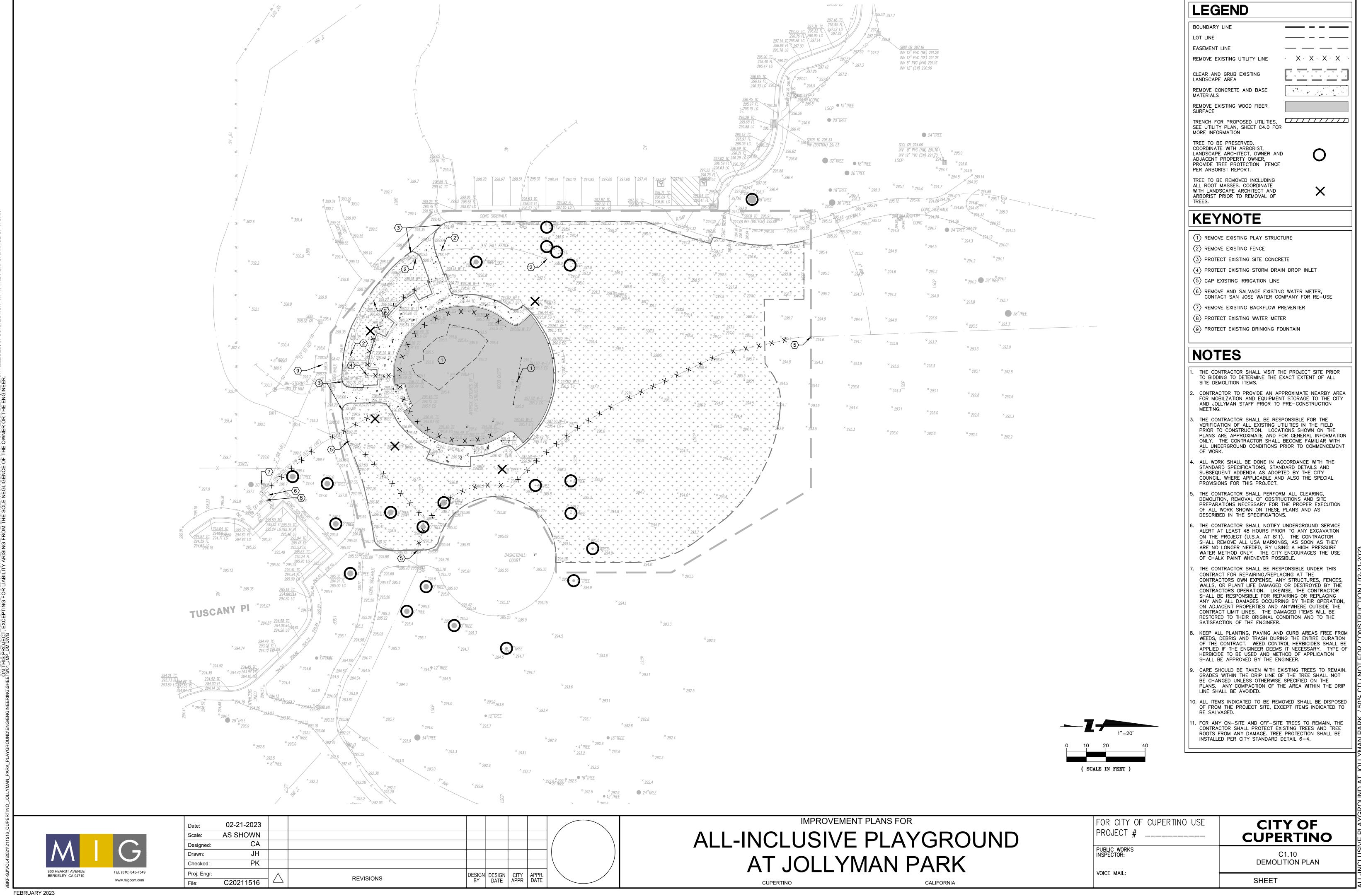
LANDSCAPED AREAS.

SOLE AND COMPLETE RESPONSIB THIS REQUIREMENT SHALL APPLY ER AND THE ENGINEER HARMLESS ISING FROM THE SOLE NEGLIGENC

CUPERTINO

CALIFORNIA





FEBRUART 20

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

roper management of construction sites reduces pollution significantly.

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

## 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,

## Unless otherwise specified by this code, an infraction is

A fine not to exceed \$100 for a first violation A fine not to exceed \$200 for a second violation 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 of Cupertino Municipal Code.

- Building Dept: Public Works Dept:
- Santa Clara County Recycling Hotline: 800-533-8414
- www.recyclestuff.com Small Business Hazardous Waste:
- upertino Sanitary Sewer Distr Santa Clara Valley Urban Runoff
- Pollution Prevention Prgm 800-794-2482 State Office of Emergency

1-800-852-7550 (24 hrs) Report spills to 911

DIRECTOR OF PUBLIC WORKS

General Construction and Site Supervision

### Storm Drain Pollution from Construction Activities

onstruction sites are common sources of storm vater pollution. Materials and wastes that blow of wash into a storm drain, gutter, or street have a firect 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 ocontractors or employees

## General Principles

- Keep an orderly site and ensure good ousekeeping 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 ex cavation and grading activities for dry weather periods. To reduce soil erosion, plant temporary vegetation or place other erosion controls before rain begins. Use he Erosion and Sediment Control Manual. available from the Regional Water Quality Control Board, as a reference
- Control the amount of runoff crossing you site (especially during excavation!) by using emisor temporary or permanent drainage leduce stormwater run off velocities by constructing temporary check dams or berms
- Train your employees and subcontractors. The city can provide brochure's about these issues for you to distribute to workers at your construction site. Inform your subcontra dors about the stormwater requirements and their own responsibilities. Use Blueprint for a Clean Bay, a construction best management ractices: guide available at our Building Dept. counter.

## Good House keeping 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 tamination at the source. Cover exposed piles of soil or construction materials with plastic sheeting or temporary roofs. Before it rains, sweet and remove materials from surfaces that drain to
- storm drains, creeks, or channels. Contain all litter, food wrappers, bottles and around the site.
- Clean up leaks, drips and other spills immediately so they do not contaminate soil or roundwater or leave residue on paved surface Use dry cleanup methods whenever possible. It
- you must use water, use just enough to keep the Cover and maintain dumpsters Place plastic sheeting secured around the outside of the
- 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.

dumpster. Never clean out a dumpster by hosing

Materials/Waste Handling ☐ Practice Source Reduction -- minimize waste hen you order materials. Estimate carefully Recycle excess materials, whenever possible such as concrete, asphalt, scrap metal, solvents

degreasers, cleared vegetation, paper, rock, an

vehicle maintenance materials such as used oil

www.reducevieste.org for info Dispose of all wastes properly. Materials that waste. Never bury waste materials or leave the

antifreeze, batteries, and tires,

acre as of Mar. 2003.

in the street or near a creek or stream bed. In addition to local grading and building permits. you will need to obtain coverage under the State's General Construction Activity Stormwater Permit in your construction site's disturbed area totals 5 acres or more. Information on the General Perm

can be obtained from the Regional Water Quality

control Board. (This criteria will change to one

Landscape contractors should take clippings and pruning waste to a landfill that composts yard waste iBFI's Newby Island and

Landscaping

Gardening,

and Pool

Maintenance

☐ Protect stockpiles and landscaping materials

from wind and rain by storing them under

☐ Schedule grading and excavation projects.

Use lemporary check dams or ditches to

☐ Protect storm drains with sandbags, gravel-

Re-vegetation is an excellent form of erosion

chemicals indoors or in a shed or storage

Store pesticides, fertilizers, and other

Use pesticides sparingly, according to

instructions on the labe. Rinse empty

trash. Dispose of unused pesticides as

Dispose of rinsed, empty containers in the

In Cupertino, residents with curbside recycling

can collect lawn, garden and tree trimmings i

filled bags, straw wattles, or other sediment

divert runoff away from storm drains.

Lands caping/Garden Maintenance

tarps or secured plastic sheeting.

during dry weather

control for any site

hazardous waste

Do not blow or rake leaves into.

Zanker Rd. landfill are the nearest)

## 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 levels typically possible through a garden hose. Higher flow rates may be prohibited by local

- ☐ Never discharge pool or spa water to a street or storm drain; discharge to a
- If possible, when emptying a pool or spaylet. 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

spent diatomaceous earth in the garbage.

- yardwaste toters. Yardwaste will be collected and composted by the city's contractors Never clean a filter in the street or near a Residents are encouraged to compost storm drain. Rinse cartridge and yardwaste on-site themselves. Or take diatomaceous earth filters onto a dirt area. yard waste to a land fill where it will be and spade filter residue into soil. Dispose of
  - If there is no suitable dirt area, call Cupertino Sanitary for instructions on discharging filter backwash or rinsewater to the sanitary sewer.

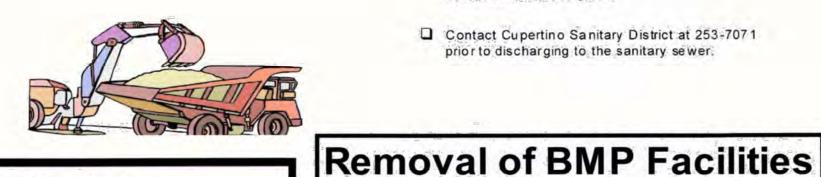
## Earth-Moving Activities

## Storm Drain Pollution from Earth-Moving Activities

Soil excavation and grading operations loosen large amounts of soil that can flow or blow into storm crains when handled improperly. Sediments in runoff can dog storm drains smother aquatic life, and cestroy 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

## Check for Sediment or Toxic Pollutants

- Check for odors, discoloration, or an oily sheen on ground water.
- Ask your city inspector whether the groundwater must be tested by a certified
- 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.

The Project Contractor is responsible

located within the Public Right of Way

for removal of all BMP Facilities

upon project final inspection.

## Heavy Equipment Operation

Storm water Pollution from Heavy Equipment on Construction Sites Poorly maintained vehicles and heavy equipment that leak fuel, oil, antifreeze o 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

- Designate one area of the construction site, well away from stream sor storm drain inlets for auto and equipment parking refueling and routine vehicle and equipment maintenance. Contain the area with berms, sand bags, or other
- Maintain all vehicles and heavy equipment
- Perform major maintenance, repair jobs and clean up is easier
- If you must drain and replace motor oil radiator drop cloths to catch drips and spills Collect all spent fluids, store in separate containers, and properly dispose as hazardous waste (recycle
- Do not use diesel oil to lubricate equipment any onsite cleaning
- O cover exposed fifth wheel hitches and other only or greasy equipment during rain events.

## Spill Cleanup

- Clean up spills im mediately A Neverhose down "dirty" pavement or Use dry cleanup methods (absorbent
- D Sweep up spilled dry materials immediately.
- Use as little water as possible for dust control.

possible and properly dispose of absorbent

- Clean up spills on dirt areas by digging up and
- ☐ Call 91.1 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.

## 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

## 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

esidue as hazardous waste. ☐ When thoroughly dry, empty paint cans, used brushes, rags, and drop doths may be disposed of as garbage

- 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
- ☐ 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
- 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 deaning 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 Paving

General Business Practices

- Develop and implement erosion/sediment control plans for roadway embankments. Schedule excavation and grading work during
- 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 /e quipment 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

Asphalt/Concrete Removal

## Avoid creating excess dust when breaking asphalt

- remove all chunks and pieces. Make sure broken payement does not come in contact with rainfall or runoff.
- properly dispose of, all residues. Sweep, never hose down streets to clean up

companies.)

or concrete.

When making saw cuts use as little water as

- After breaking up old pavement, be sure to
- possible. Shovel or vacuum saw-cut slurry and remove from the site. Cover or protect storm drain inlets during saw-cutting. Sweep up, and
- tracked dirt. Use a street sweeper or vacuum truck. Do not dump vacuumed liquor in storm

## Storm Drain Pollution from Roadwork Road paving, surfacing, and pavement remova

happen right in the street, where there are numerous opportunities for a sphalt, 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
- when applying seal coat, slurry seal, fog seal, or similar materials. Protect drainage ways by using earth dikes,

Over and seal catch basins and manholes

- 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. Over 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" m ethods (with a bsorbe nt materials and/or rags), or dig up, remove, and properly dispose of contaminated soil.
- Ocllect and recycle or appropriately dispose of excess abrasive gravel or sand. ??? Avoid over-application by water trucks for dust

## 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 into a temporary waste pit in a dirt area. Let water percolate through soil and dispose of settled, hardened concrete as garbage.
- pumping back into mixers for reuse. Wash out chutes onto dirt areas that do not
- Always store both dry and wet materials under cover, protected from rainfall and runof and away from storm drains or waterways. Protect dry materials from wind.

Secure bags of cement after they are open.

away from streets, gutters, storm drains,

Be sure to keep wind-blown cement powder

rainfall, and runoff Do not use diesel fuel as a lubricant on concrete forms tools, or trailers

## **During Construction**

CITY OF CUPERTINO

DEPARTMENT OF PUBLIC WORKS

material has dried.

storm drains.

- washout areas in your yard, away from storm drains and waterways, where the water will flow Whenever possible, recycle washout by
- flow to streets or drains.

## Don't mix up more fresh concrete or cement

- than you will use in a two-hour period. A Set up and operate small mixers on tarps or
- When cleaning up after driveway or sidewalk construction, wash fines onto dirt areas, not down the drive way or into the street or storm
- Protect applications of fresh concrete and mortar from rainfall and runoff until the
- ☐ 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 run off does not reach gutters or
- When breaking up pavement, be sure to pick up all the pieces and dispose of properly. Recycle large chunks of broken concrete See
- ☐ 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.





**UPDATED SEPTEMBER 20** 

800 HEARST AVENUE TEL (510) 845-7549 www.migcom.com

02-21-2023 **AS SHOWN** Scale: CA Designed: JH Drawn: PK Checked DESIGN DESIGN CITY APPR. BY DATE APPR. DATE Proj. Engr: **REVISIONS** C20211516

# CONSTRUCTION BEST MANAGEMENT PRACTICES

IMPROVEMENT PLANS FOR ALL-INCLUSIVE PLAYGROUND AT JOLLYMAN PARK

FOR CITY OF CUPERTINO USE PROJECT # \_\_\_\_\_

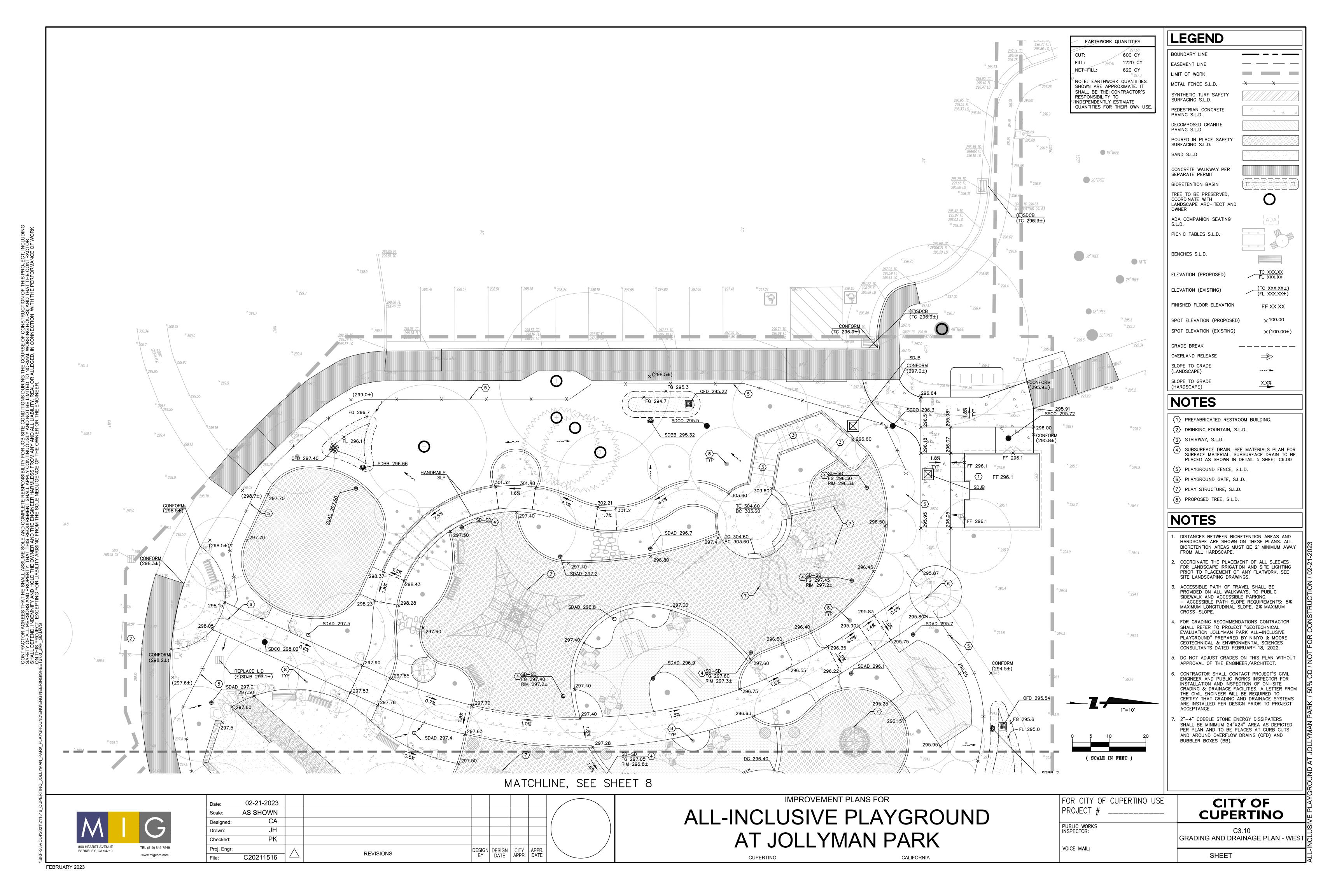
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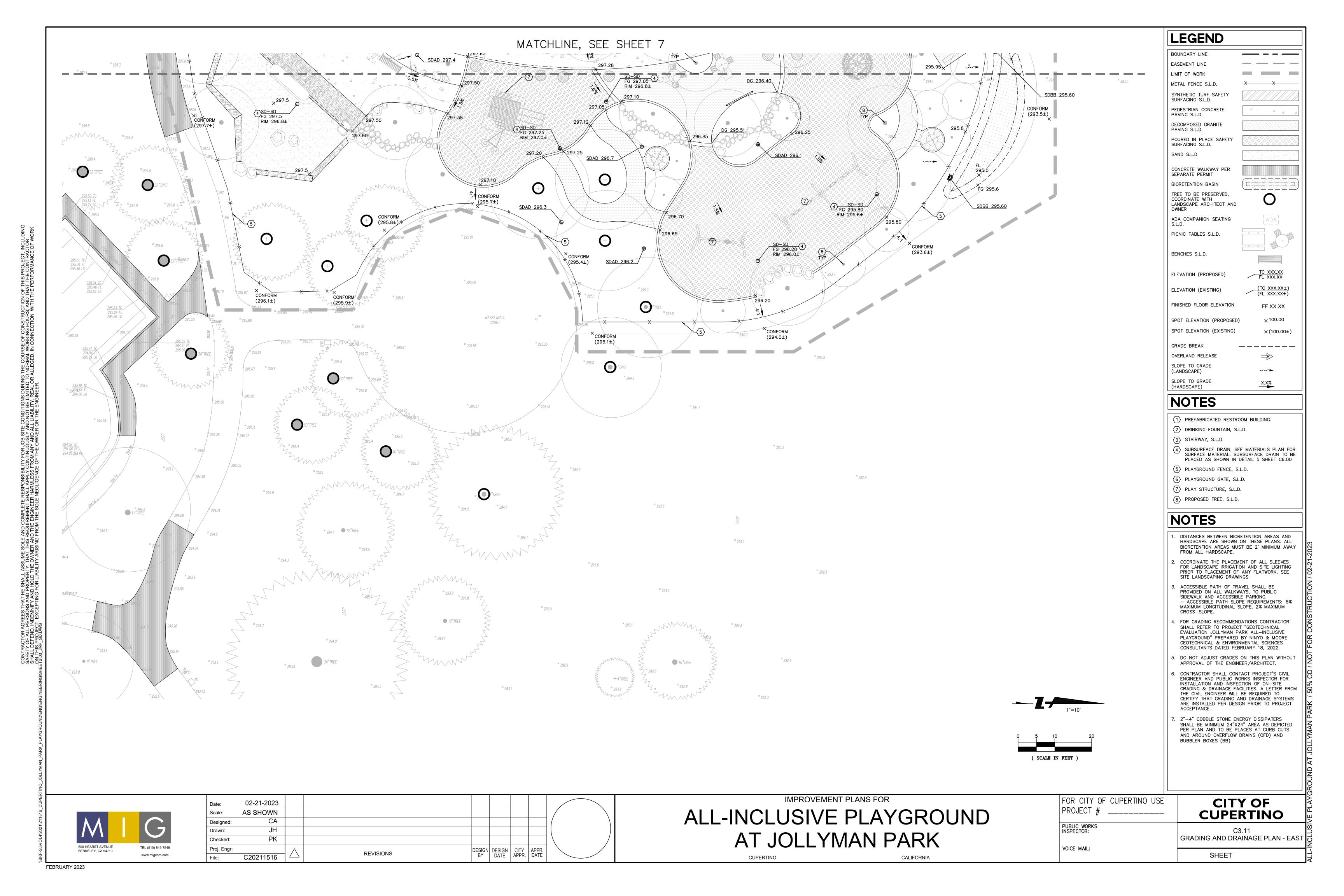
C2.20 BEST MANAGEMENT PRACTICES

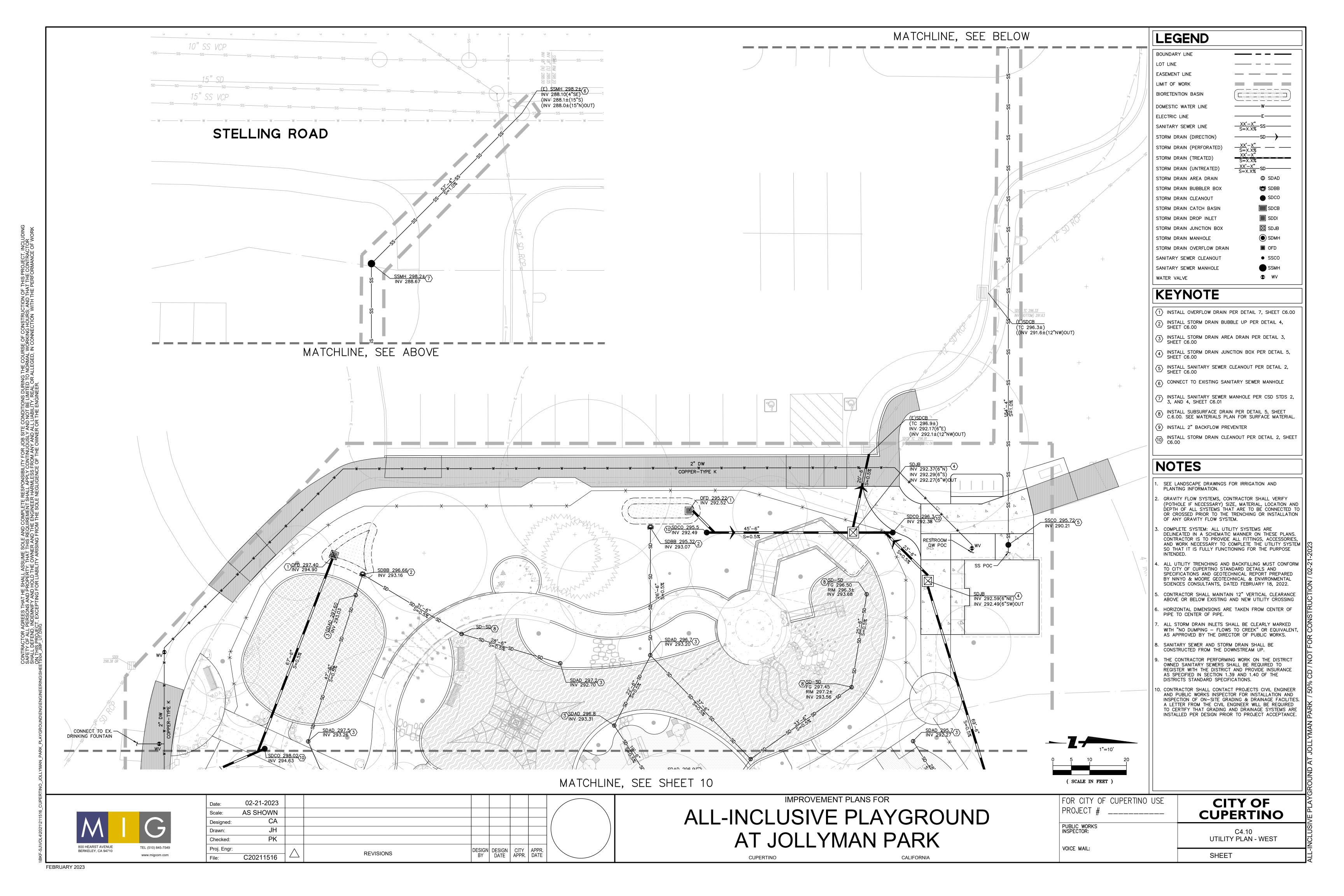
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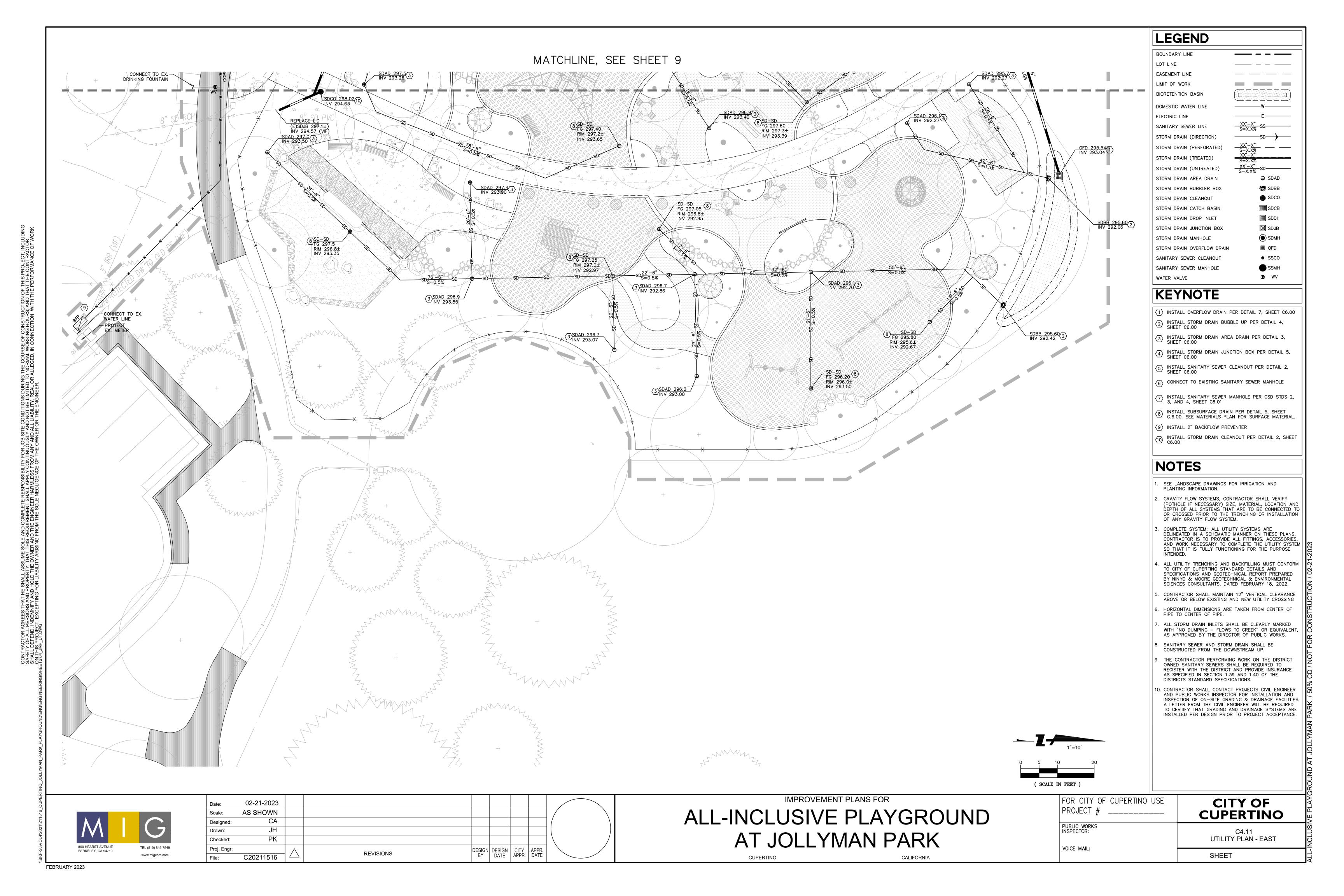
CITY OF

**CUPERTINO** 











	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.

## PROJECT SITE INFORMATION:

- 1. SOILS TYPE:
  - SOILS TYPE: <u>STIFF LEA</u>
    GROUND WATER DEPTH: <u>50 FEET</u>
  - 3. NAME OF RECEIVING BODY: GUADALUPE
    4. FLOOD ZONE: ZONE D
    5. FLOOD ELEVATION: N/A

SOURCE CONTROL MEASURES:

- BENEFICIAL LANDSCAPING.
- 2. USE OF WATER EFFICIENT IRRIGATION SYSTEMS.
- 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.
- LANDSCAPED AREAS.

  4. PLANT TREES ADJACENT TO AND IN PARKING AREAS AND

3. DIRECT RUNOFF FROM ROOFS, SIDEWALKS, PATIOS TO

ADJACENT TO OTHER IMPERVIOUS AREAS.

CREATE NEW PERVIOUS AREAS: LANDSCAPING

## BIORETENTION & FLOW-THROUGH PLANTER NOTES:

- 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
- I. 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
  - LOT LINE

    EASEMENT LINE

    LIMIT OF WORK

PCC CONCRETE

- GRASS PAVER
- PLANTING AREA

## DRAINAGE MANAGEMENT AREA

# <u>DMA−1</u>

**y y y** 

STORM DRAIN (PERFORATED)

STORM DRAIN (TREATED)

STORM DRAIN (UNTREATED)

STORM DRAIN AREA DRAIN

STORM DRAIN BURBLER BOX

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 CERTI	FIED TESTING LAB.							
TA	TABLE 1  MAINTENANCE ACTIVITIES FOR BIORETENTION AREAS  ROUTIN								
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 DEFORE THE WET							
10	REPLACE BIOTREATMENT SOIL AND MULCH, IF NEEDED. CHECK FOR STANDING WATER, STRUCTURAL FAILURE AND CLOGGED OVERFLOWS. REMOVE TRASH AND DEBRIS. REPLACE DEAD	ANNUALLY, BEFORE THE WET SEASON BEGINS							

11 INSPECT BIORETENTION AREA USING THE ATTACHED INSPECTION CHECKLIST.

## 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.

ANNUALLY, BEFORE THE WET

 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.



 Date:
 02-21-2023

 Scale:
 AS SHOWN

 Designed:
 CA

 Drawn:
 JH

 Checked:
 PK

 Proj. Engr:
 File:

 C20211516
 REVISIONS

 DESIGN DESIGN DATE APPR. DATE

ALL-INCLUSIVE PLAYGROUND
AT JOLLYMAN PARK

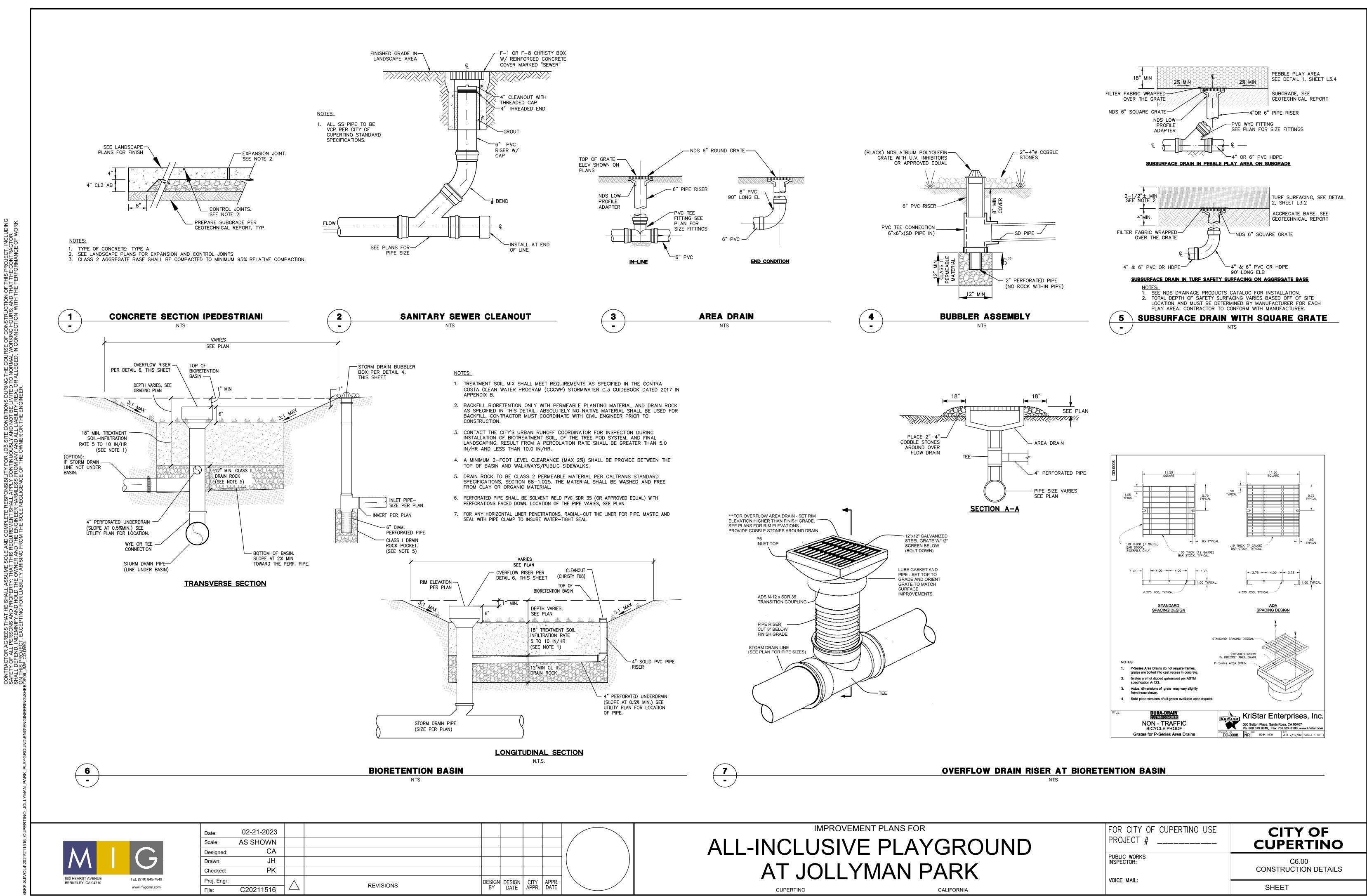
FOR CITY OF CUPERTINO USE PROJECT # CUPERTINO

PUBLIC WORKS INSPECTOR:

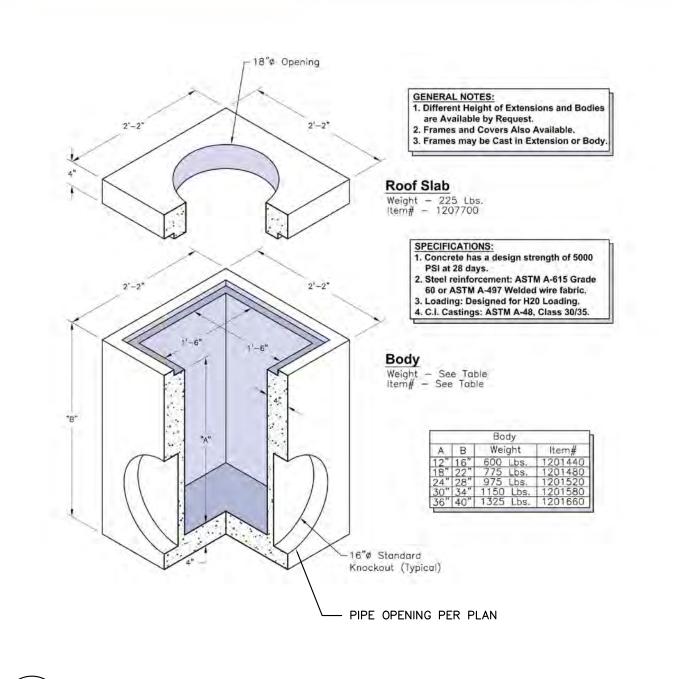
C5.10
STORMWATER MANAGEMENT PLAN

VOICE MAIL:

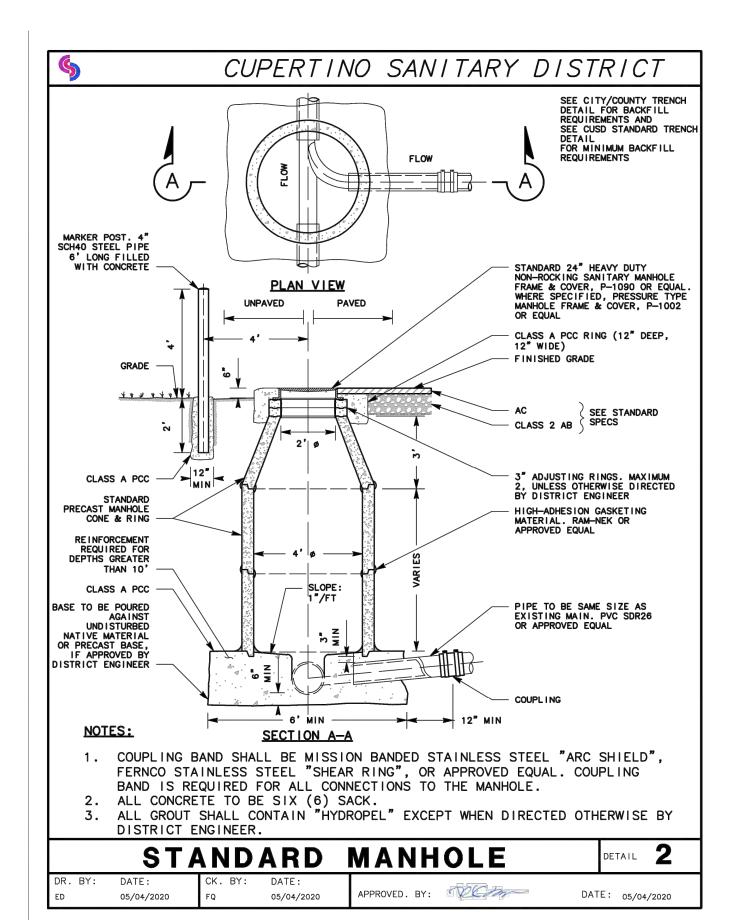
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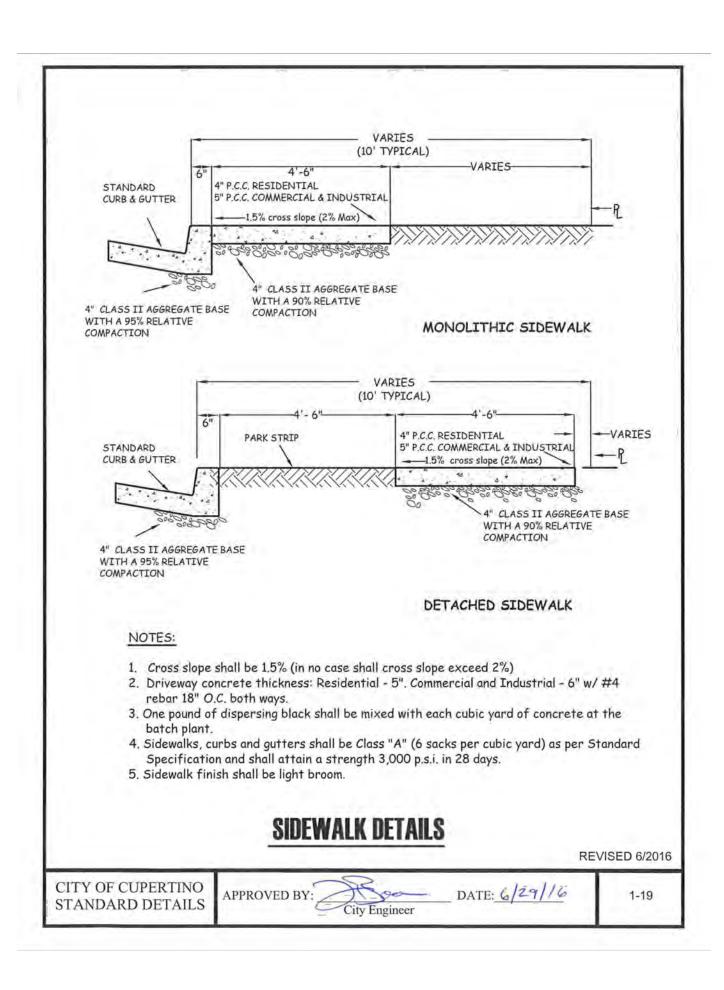


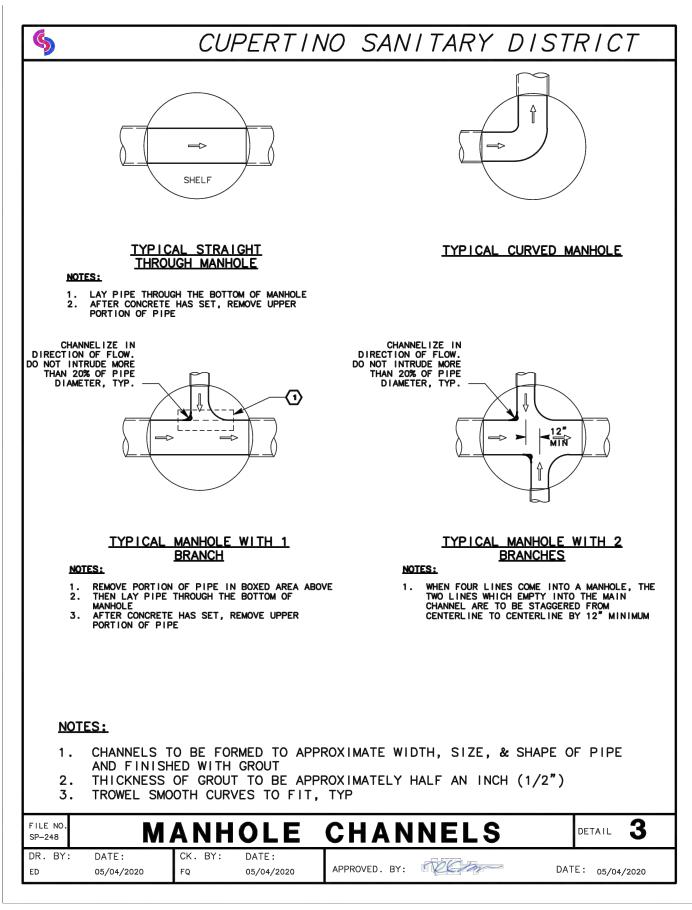


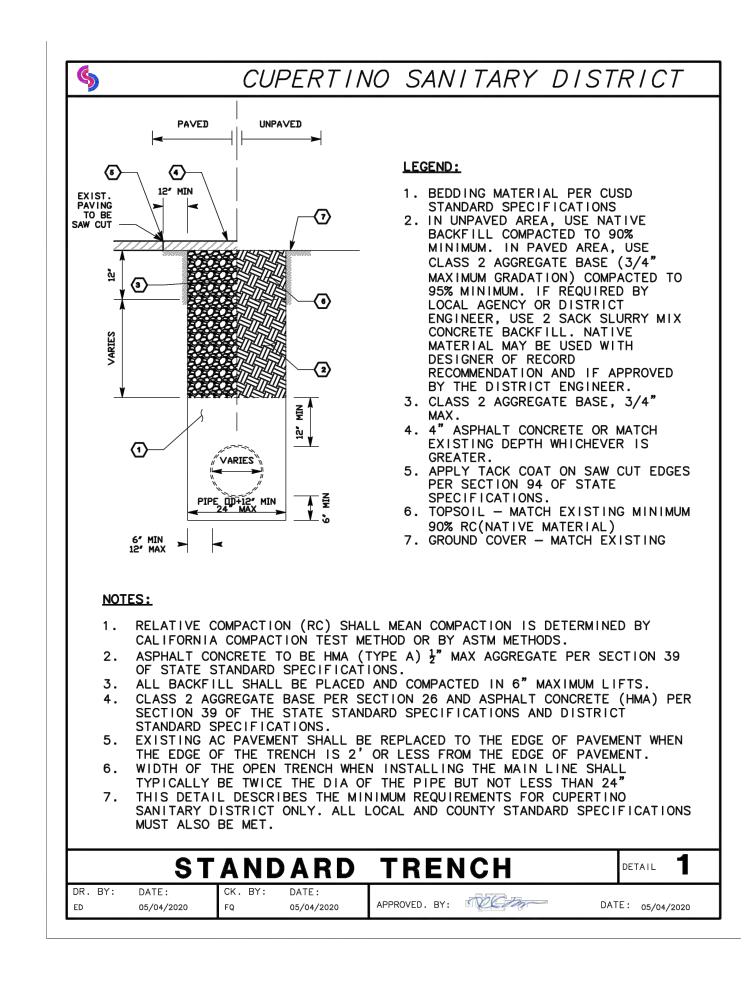


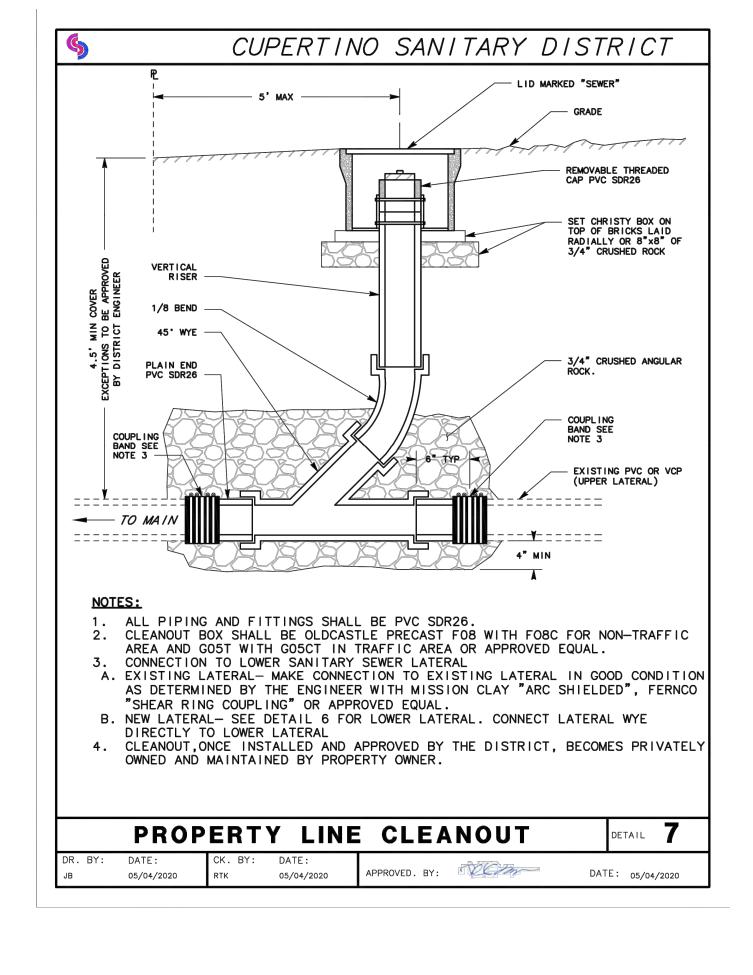
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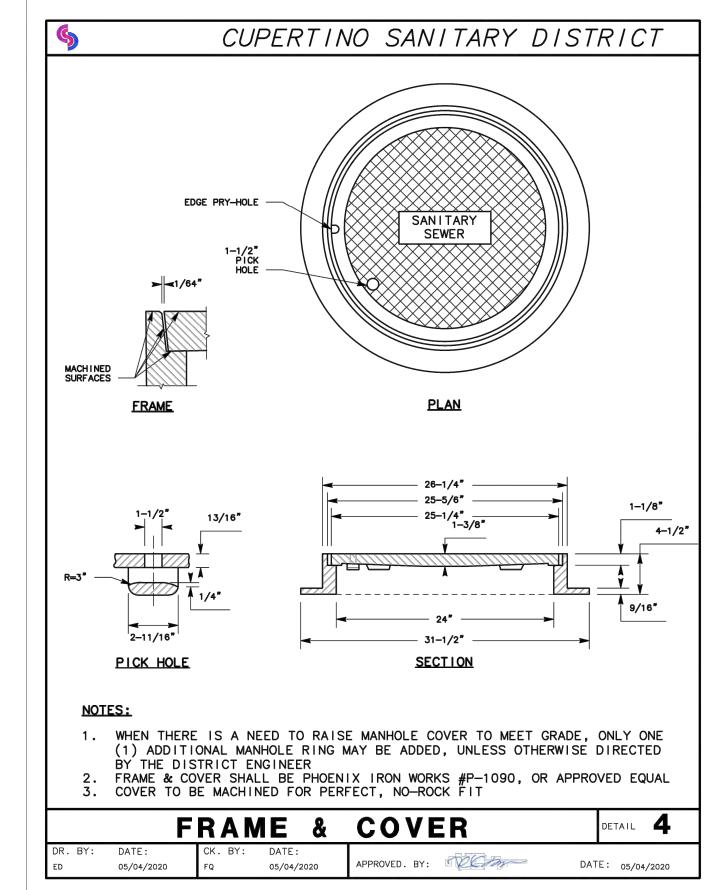


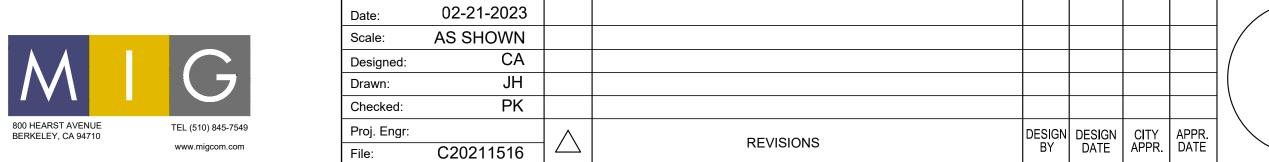












IMPROVEMENT PLANS FOR

# ALL-INCLUSIVE PLAYGROUND

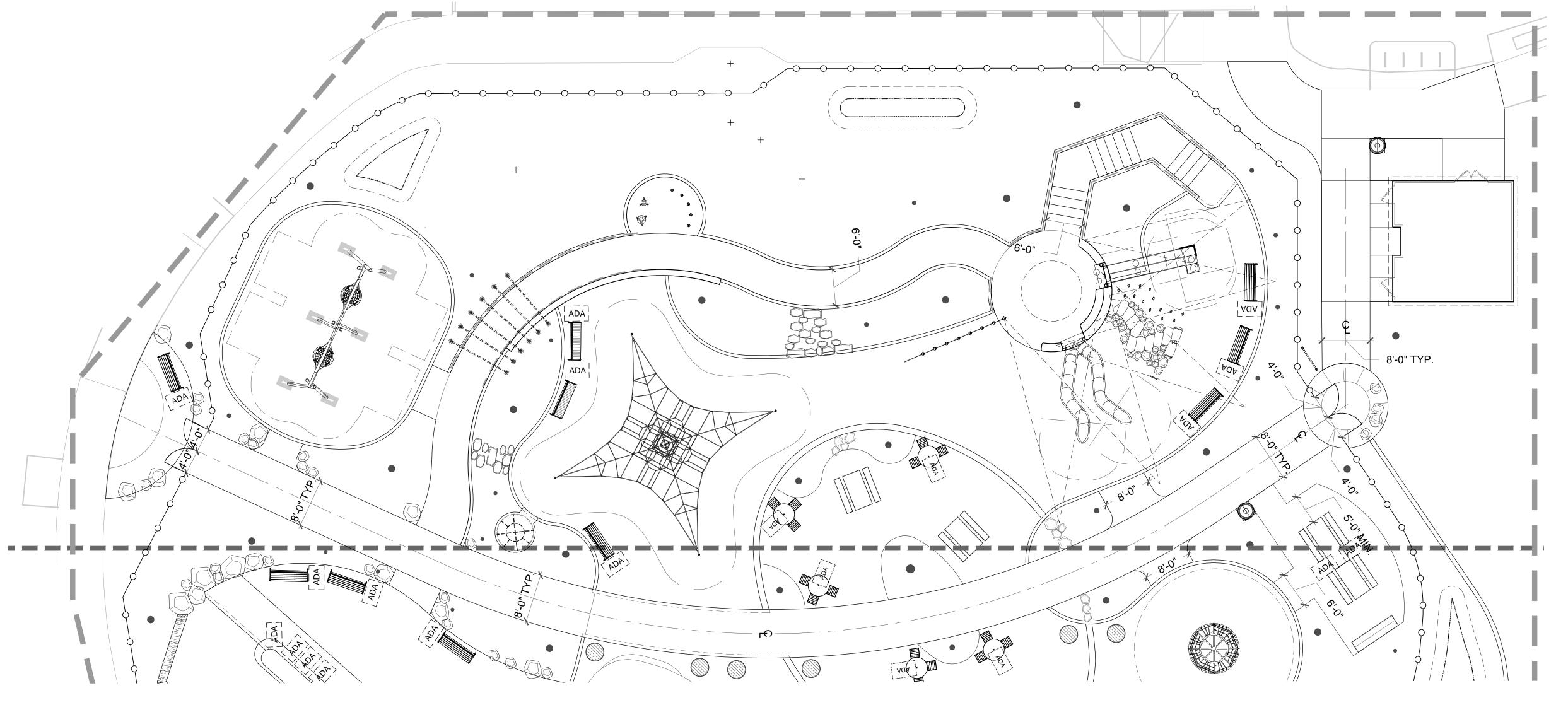
AT JOLLYMAN PARK

FOR CITY OF CUPERTINO USE PROJECT #	CITY OF CUPERTINO
PUBLIC WORKS INSPECTOR:	C6.01 CONSTRUCTION DETAILS
VOICE MAIL:	SHEET

SHEET

REVISIONS

www.migcom.com

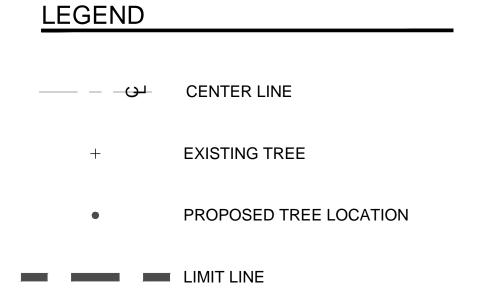


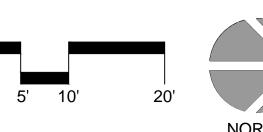
## LAYOUT NOTES

- 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.

- 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.





IMPROVEMENT PLANS FOR

# ALL-INCLUSIVE PLAYGROUND AT JOLLYMAN PARK

FOR CITY OF CUPERTINO USE
PROJECT # \_\_\_\_\_ CITY OF
CUPERTINO

PUBLIC WORKS
INSPECTOR:

L2.10
LAYOUT PLAN - WEST

VOICE MAIL:

SHEET

MIG

 Date:
 02-21-2023

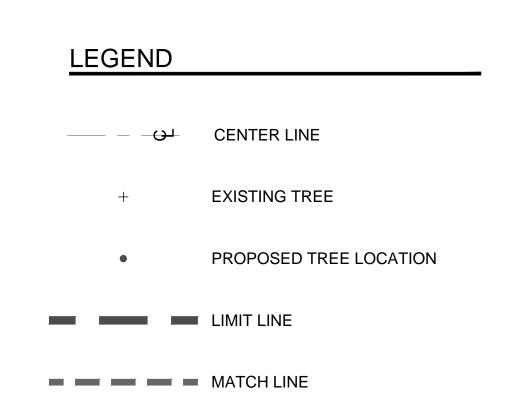
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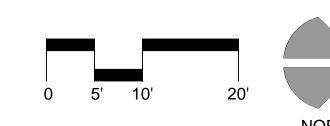
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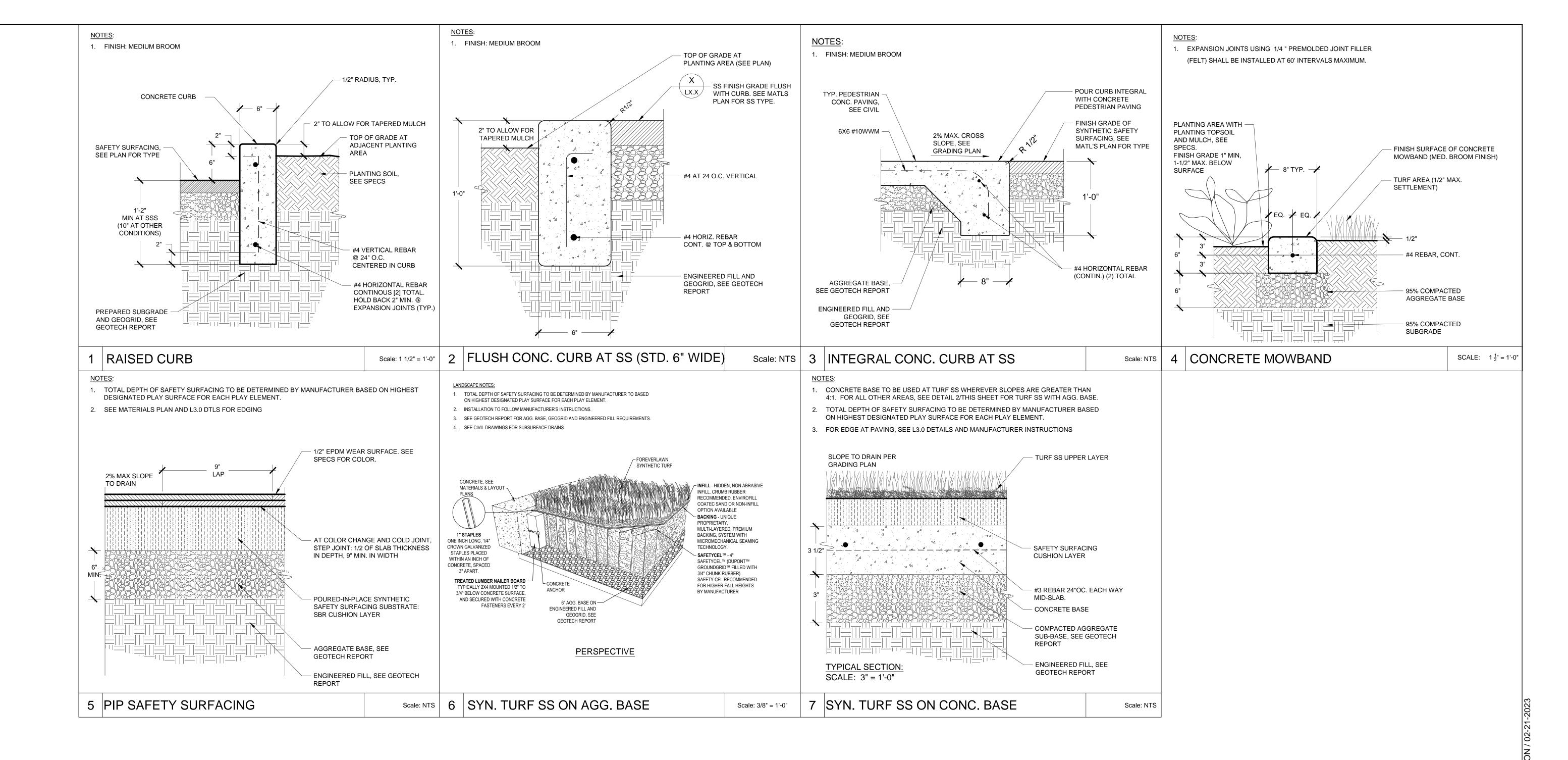




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# ALL-INCLUSIVE PLAYGROUND AT JOLLYMAN PARK

FOR CITY OF CUPERTINO USE PROJECT #	CITY OF CUPERTINO
PUBLIC WORKS INSPECTOR:	L2.11 LAYOUT PLAN - EAST
VOICE MAIL:	SHEET



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.

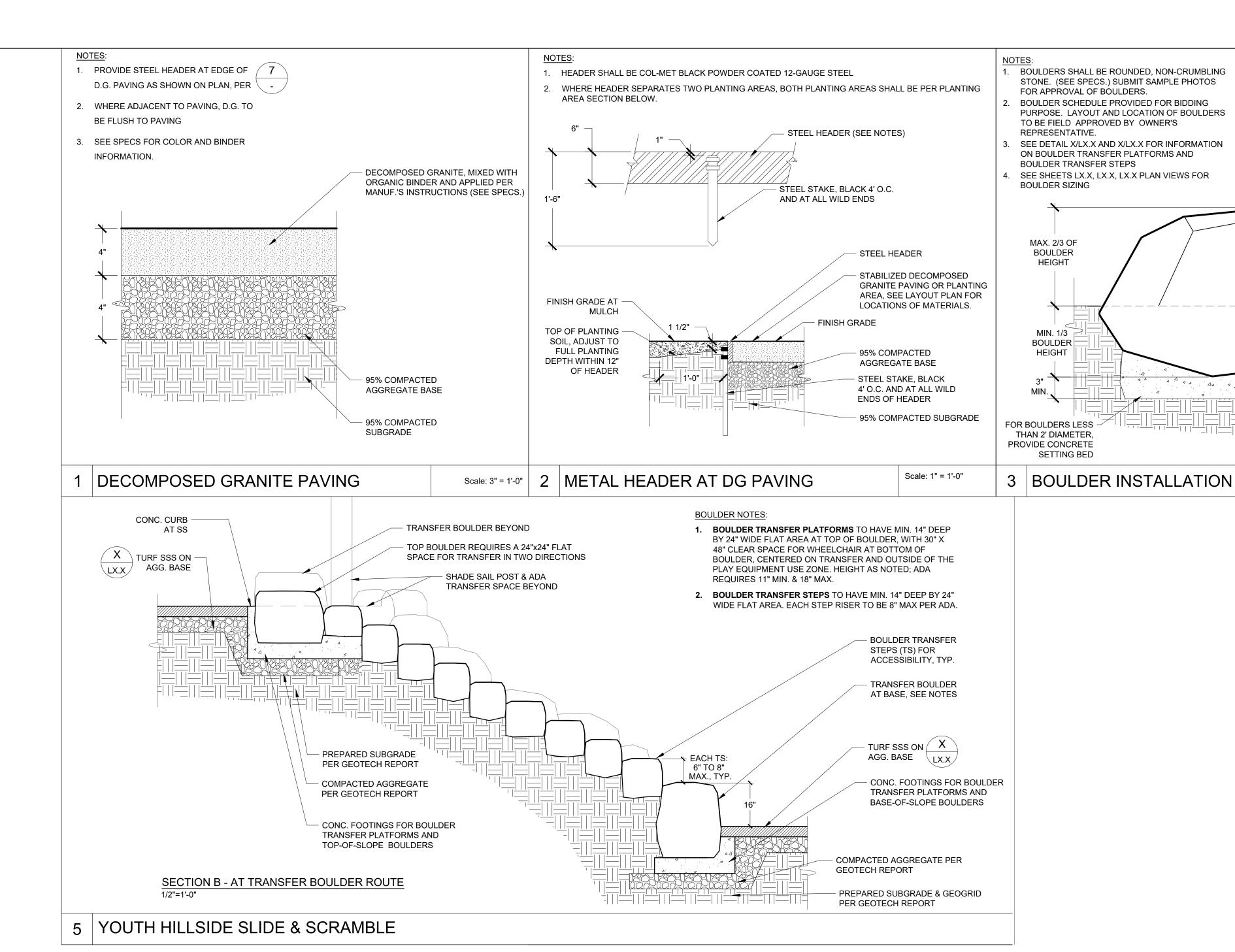


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# ALL-INCLUSIVE PLAYGROUND AT JOLLYMAN PARK

FOR CITY OF CUPERTINO USE PROJECT #	CITY OF CUPERTINO
PUBLIC WORKS INSPECTOR:	L3.10 CONSTRUCTION DETAILS
VOICE MAIL:	SHEET





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.

800 HEARST AVENUE TEL (510) 845-7549

www.migcom.com

 Date:
 02-21-2023

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REVISIONS

| DESIGN DESIGN DATE | DATE |

# ALL-INCLUSIVE PLAYGROUND AT JOLLYMAN PARK

IV	717	4 1	4		11	1			
		CALIFORNIA							

**BOULDER SCHEDULE** 

BOULDER B 1'-6"' TO +/- 2'-0"Ø

1'-0 TO +/- 1'-6"Ø

2'-0" TO +/- 2'-6"Ø

2'-6" TO +/- 3'-0"Ø

3'-0" TO +/- 3'-6"Ø

3'-6" TO +/- 4'-0"Ø

4'-0" TO +/- 4'-6"Ø

**BOULDER A** 

BOULDER C

BOULDER D

**BOULDER E** 

**BOULDER F** 

**BOULDER G** 

**QUANTITY** 

SEE PLAN

- FINISH GRADE OF ADJACENT SURFACING

(SEE PLAN)

ENGINEERED FILL AND

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

GEOGRID, SEE

**GEOTECH REPORT** 

1. DTL SHOWS RELATIONSHIP OF BOULDER TO SAND PLAY

REQUIREMENTS.

SAND -

AREA. SEE BOULDER DTL X/LX.X FOR ADD'L BOULDER

4 BOULDER EDGE AT SAND PLAY

SEE STONE SPECS FOR BOULDER AND PEBBLE INFORMATION

- FINISH GRADE OF

ADJ. SURFACING

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

(SEE PLAN)

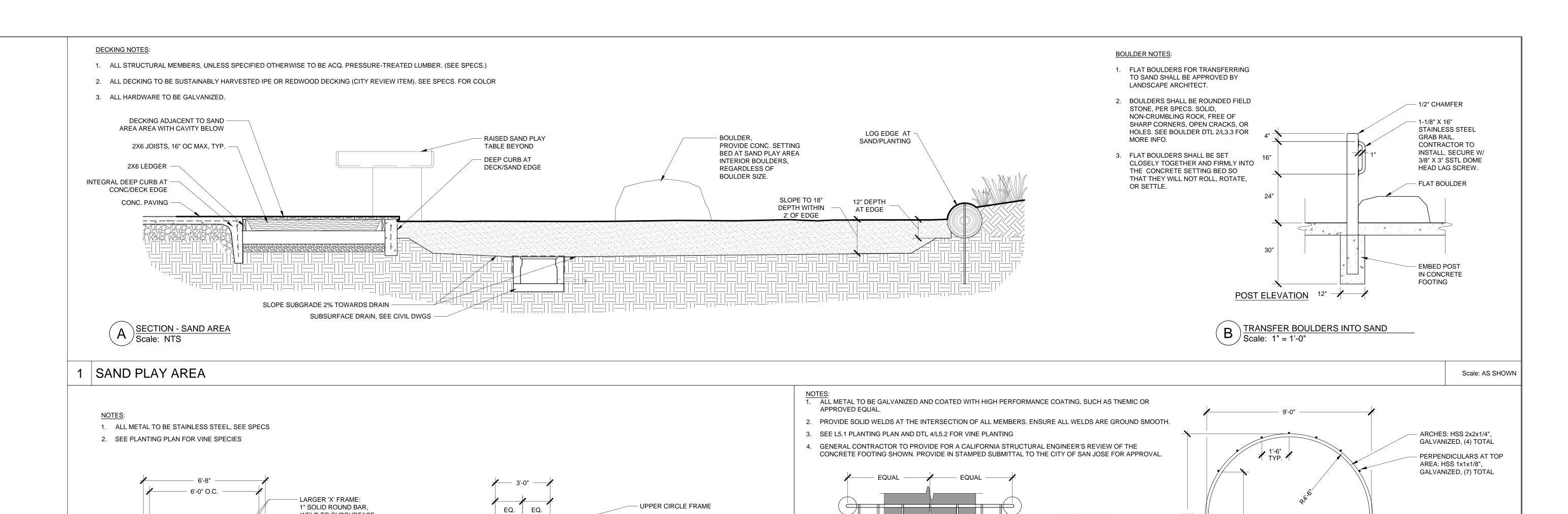
- FOR BOULDERS LESS  $igg( {\sf X} igg)$ 

THAN 2' DIAM., PROVIDE CONCRETE SETTING BED

SUBGRADE COMPACTED TO 95%

RELATIVE COMPACTION

FOR CITY OF CUPERTINO USE PROJECT #	CITY OF CUPERTINO
PUBLIC WORKS INSPECTOR:	L3.11 CONSTRUCTION DETAILS
VOICE MAIL:	SHEET



2'-0", TYP.

PLAN VIEW SCALE AS SHOWN

3 VINE ARCH

- LARGER 'X' FRAME

MORTARED IN PLACE

AT VERTICALS

- INTERMEDIATE VERTICALS

8" x 12" DEPTH CONTINUOUS CONCRETE FOOTING, SEE

- CONC. BASE W/ STONE PAVERS 10

PLANTING PLAN FOR VINE PLANTINGS

ADJACENT PLANTING AREA, SEE

ENLARGEMENT AT DTL 10/L3.0 FOR

(2) SUBSURFACE FRAMES (COMPLETE

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

CIRCLE) WELDED TO VERTICALS,

EMBED INTO CONCRETE FOOTING



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.

PEDESTRIAN CONC. PAVING,

OR DECOMPOSED GRANITE.

ADJACENT PLANTING AREA,

- 12" x 18" DEEP CONCRETE FOOTING, AT EACH VERTICAL

WITH #3 HOOPS AT 4" O.C.& (4)

#3 VERTICALS

SEE PLANTING PLAN FOR VINE

REFER TO PLANS.

FINISH GRADE

PLANTINGS



Date:	02-21-2023							
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File:			REVISIONS	BY	DATE	APPR.	DATE	

WELD TO SUBSURFACE

INTERMEDIATE VERTICALS:

TO SUBSURFACE FRAME.

**UPPER CIRCLE FRAME:** 

1/2" SOLID ROUND BAR,

SUBSURFACE FRAMES

LARGER 'X' FRAME

TURNAROUND FOR

WHEELCHAIRS

FOR STABILITY, SAME AS

PAVERS COVERING FOOTING,

TYP. SECTION

MIN. 5'-0" CLR. REQUIRED

WELD TO FRAME.

CONTINOUS CONC. FOOTING

3'-0" MIN. WIDE

**ENTRANCE WITH** 

ABSENT POST

2 NATURE RETREAT

TYP. PLAN

1/2" SOLID ROUND BAR, WELD

IMPROVEMENT PLANS FOR ALL-INCLUSIVE PLAYGROUND AT JOLLYMAN PARK

PLANTING AREA, TYP.

PATHWAY, WIDTH

- OVERHEAD ARCH

PERPENDICULAR, TYP.

PER PLANS

- CONCRETE FOOTING, TYP.

- OVERHEAD

CENTERLINE OF CONCRETE

PATH UNDER ARBOR

9'-0"

SECTION A-A SCALE AS SHOWN

(6'-8" MIN.)

1'-0"

FOR CITY OF CUPERTINO USE PROJECT #	CITY OF CUPERTINO
PUBLIC WORKS INSPECTOR:  VOICE MAIL:	L3.12 CONSTRUCTION DETAILS
VOICE MAIL:	SHEET

LANDS	CAPE IRI	RIGATION	I EQUIPME	NT LEGEND	, CON	ITINUED							
TREE FLOOD	BUBBLER												
SYMBOL	MFG'R (OR APPR	MODEL #	NOZZLE FLOW	OPERATING PRESSURE	RADIUS	TOTAL FLOW PER TREE		NOTE		DETAIL			
•	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 E	BUBBLER				1								
SYMBOL	MFG'R	MODEL#	NOZZLE FLOW	OPERATING PRESSURE	RADIUS	TOTAL FLOW PER VINE		NOTE					
	(OR APPR	OVED EQUAL)  1402	0.5 GPM	30 PSI	N/A	0.5 GPM		CONTRACTOR TO INSTALL (1) BUBBLER PER VINE ON			CONTRACTOR TO INSTALL (1) BUBBLER PER VINE ON HIGH SIDE OF THE ROOTBALL.		
SUBSURFAC	CE DRIP IRRIC	SATION EQUIPI	MENT										
SYMBOL	MFG'R	MODEL#	DES	CRIPTION	OP. PSI	EMITTER FLOW (GPH)	EMITTER SPACING	MAX. ALLOWED HOZIN. SPACING	BURIAL DEPTH	DETAIL			
	(OR APPROVED EQUAL)					(3.1.)	OI NOING	TIOZIIV. OI NOIIVO	DEI III				
	RAIN BIRD	XFS-CV-06-12	INLINE EMITTER DRIPLIN COMPENSATING, SELF-F BUILT IN CHECK VALVE A WITH XF INSERT BARB F	FLUSHING EMITTERS W/ AND COPPER CHIP. USE	30	0.60	12-INCHES	12-INCHES	6-INCHES				
SYMBOL	MFG'R	MODEL#	DES	CRIPTION	DEMA DICO								
STMBOL	(OR APPR	OVED EQUAL)	DES	CRIFTION	REMARKS								
F	NIBCO	4660-S	PVC MANUAL FLUSH BAI	LL 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 INI	DICATOR	PLUMB TO DR	RIP PVC LATERAL FEE	ED LINE. ONE I	PER DRIP ZONE.					
A	RAIN BIRD	ARV050	AIR VACUUM RELIEF VA	LVE	1/2" SIZE. PLU	IMB TO DRIP TUBING	AT HIGH POIN	TS OF PLANTING AREA	S.				

CLASS 315 & SCH. 40 II	NE PIPE SIZING CHART PS U.S. PVC PLASTIC PIPE ENCE 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

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						

NON-PRESSURE LATERAL PIPE SIZING CHART

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.						

SYMBOL	MFG'R (OR APPR	MODEL # OVED EQUAL)	DESCRIPTION		REMA	ARKS		DETAIL
×	NIBCO	T-113-BHW	MAINLINE ISOLATION GATE VALVE (2-1/2-INCH AND SMALLER)	_	VITH THREADED ( BOX WITH LOCKII		NSTALL WITHIN	
Ă	NIBCO	F-619-RWS-SON	MAINLINE ISOLATION GATE VALVE (3-INCH AND LARGER)	MAINLINE SIZE V	VITH FLANGED CO CONCRETE VALV	ONNECTIONS AND	•	
NOT SHOWN	NIBCO	T585HP-66-LF	BALL VALVE AT REMOTE CONTROL VALVE (2-INCH AND SMALLER)		ONZE, THREADED ASSOCIATED REM		I	
€	RAIN BIRD	44LRC	QUICK COUPLER VALVE	1-INCH SIZE (NP (2) 1-INCH NPT N MATCHING 1-INC	T); SINGLE SLOT VI MALE x 3/4-INCH F CH MALE HOSE X INSTALL WITHIN I	EMALE KEYS (MO 1" FEMALE PIPE H	DEL #44-K) AND HOSE SWIVELS	
<b>(c)</b>	RAIN MASTER	RME-24-5G	PROPOSED IRRIGATION CONTROLLER	CELLULAR SER\ OF NEW RESTRO	GLE PLUS IRRIGAT /ICE TO BE WALL DOM BUILDING. O ECTRICAL DRAWI	MOUNTED WITHI CONNECT TO 120	N UTILITY ROOM VOLT A.C.	
•	RAINBIRD	100-EFB-CP 1" 150-EFB-CP 1.5" 200-EFB-CP 2"	REMOTE CONTROL VALVE (RCV) FOR ROTOR AND BUBBLER ZONES	ON PLANS. INST COVER. INSTALL VALVES. SIZE M.	ALVE WITH FLOW ALL WITHIN PLAS WITHIN MANIFOI ANIFOLD TO MATO ROLLERS AS INDIC	TIC VALVE BOX A LD WHEN GROUP CH LARGEST LAT	ND BOLT DOWN PED WITH OTHER PERAL LINE SIZE.	
$lue{m{\oplus}}$	RAINBIRD	100-EFB-CP 1"	DRIP REMOTE CONTROL VALVE (DRCV) FOR DRIP ZONES	FILTER AND PSI- WITHIN PLASTIC WITHIN MANIFO MANIFOLD TO M	ALVE WITH FLOW H40X-100 PRESS VALVE BOX AND LD WHEN GROUP ATCH LARGEST L AS INDICATED ON	URE REGULATOR BOLT DOWN CO' ED WITH OTHER ATERAL LINE SIZ	. INSTALL VER. INSTALL VALVES. SIZE	
	PW PIPE	-	PRESSURE MAINLINE PIPE	SIZE AS NOTED MAINLINE 3 INCH FITTINGS WITH L	ON PLANS. USE C HES AND LARGER LEEMCO JOINT RE WIRE ABOVE. MA	CLASS 200 PVC PI ; USE DUCTILE IR ESTRAINTS. INSTA	ON GASKETED ALL PIPE WITH	
	PW PIPE	-	PRESSURE MAINLINE PIPE	MAINLINE 2-1/2 I	ON PLANS. USE S NCHES OR SMALI OVE. MAINLINE C	LER. INSTALL PIP	E WITH COPPER	
	PW PIPE	-	NON-PRESSURE LATERAL PIPE	-	SCH. 40 PVC. LAT /ELD FITTINGS, 3/ 2"			
	PW PIPE	-	IRRIGATION PIPE/ CONTROL WIRES/ SENSOR WIRE SLEEVE	QUANTITIES SHO ONLY. CONTRAC	DWN ON PLANS A CTOR SHALL PRO' ER TO PIPE/WIRE	VIDE SIZE AND Q	UANTITY AS	
$\otimes$	EXISTING	-	EXISTING QUICK COUPLING VALVE (RCV) TO REMAIN	FIELD VERIFY EX	KACT LOCATION.	PROTECT IN PLA	CE AS DIRECTED	
$\otimes$	EXISTING	-	EXISTING QUICK COUPLING VALVE (RCV) TO REMOVE	FIELD VERIFY EXPLANS.	KACT LOCATION.	REMOVE AS DIRE	ECTED ON	
$\oplus$	EXISTING	-	EXISTING REMOTE CONTROL VALVE (RCV) TO REMAIN	FIELD VERIFY EX	KACT LOCATION A	AND SIZE. PROTE	CT IN PLACE AS	
$\bigoplus$	EXISTING	-	EXISTING REMOTE CONTROL VALVE (RCV) TO REMOVE	FIELD VERIFY EX	KACT LOCATION A	AND SIZE. REMOV	'E AS DIRECTED	N/A
	EXISTING TO REMAIN	-	EXISTING PRESSURE MAINLINE PIPE AND CONTROL WIRES TO REMAIN	_	FIELD VERIFY EX			14// (
	EXISTING TO REMOVE	-	EXISTING PRESSURE MAINLINE PIPE AND CONTROL WIRES TO BE REMOVED	REMOVE WHERE INDICATED ON PLANS. FIELD VERIFY EXALOCATION OF EACH PIPE.				
	EXISTING TO REMAIN EXISTING TO REMOVE	-	EXISTING NON-PRESSURE LATERAL PIPE TO REMAIN  EXISTING NON-PRESSURE LATERAL PIPE TO BE REMOVED	AND CONNECT A	FIELD VERIFY EX AS NOTED ON PLA E INDICATED ON F ACH PIPE.	ANS. PROTECT IN	PLACE.	
XISTING T	URF ROTOR	S	1					
SYMBOL	MFG'R (OR APPR	MODEL#	DESCRIPTION	NOZZLE	OPERATING PSI	RADIUS FEET	FLOW GPM	DETAIL
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
VERHEA	D IRRIGAT	ION EQUIPMI	ENT- ROTORS					
SYMBOL	MFG'R (OR APPR	MODEL # OVED EQUAL)	DESCRIPTION	NOZZLE	OPER. PSI	RADIUS FEET	FLOW GPM	DETAIL
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	06	50	40'	5.6	



02-21-2023 СН Proj. Engr: DESIGN DESIGN CITY APPR. DATE REVISIONS

IMPROVEMENT PLANS FOR

ALL-INCLUSIVE PLAYGROUND AT JOLLYMAN PARK

FOR CITY OF CUPERTINO USE

VOICE MAIL:

CITY OF CUPERTINO L4.00 IRRIGATION LEGEND

SHEET XX

- 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.
- 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

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

Date:

Designed:

Drawn:

Checked:

Proj. Engr:

02-21-2023

СН

**REVISIONS** 

## 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.
- 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.
- 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. 17 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.

DESIGN DESIGN CITY APPR. DATE

- 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.

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

IMPROVEMENT PLANS FOR

ALL-INCLUSIVE PLAYGROUND AT JOLLYMAN PARK

PUBLIC WORKS INSPECTOR: VOICE MAIL:

SHEET XX

FEBRUARY 2023

CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITION SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE I SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE EN

FOR CITY OF CUPERTINO USE CITY OF **CUPERTINO** IRRIGATION NOTES

## **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.

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

HYDROZONE WATER-USE — L 0.85 — PRECIP. RATE (IN./HR.) 631 HYRDOZONE AREA (SF)

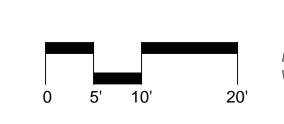
\*REFER TO HYDROZONE CHART

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

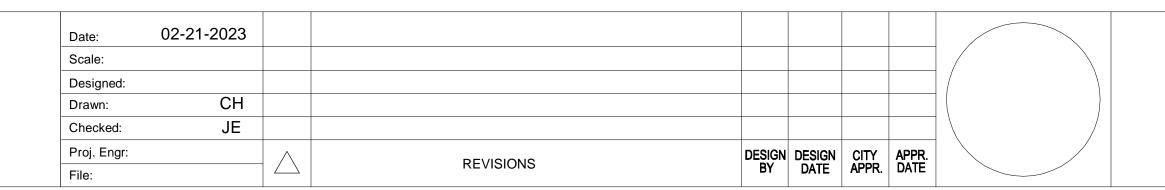






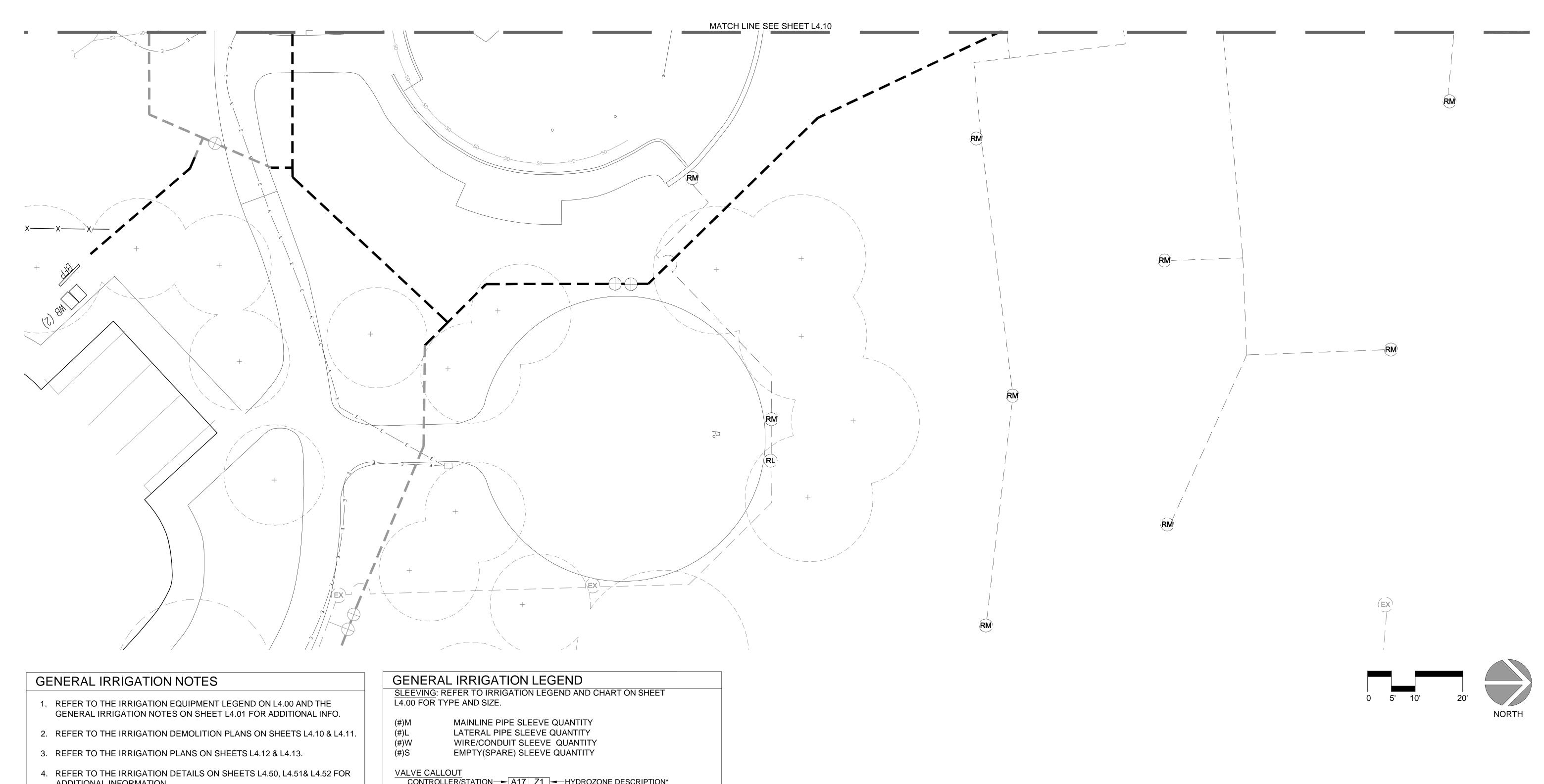
SHEET XX





IMPROVEMENT PLANS FOR ALL-INCLUSIVE PLAYGROUND AT JOLLYMAN PARK

FOR CITY OF CUPERTINO USE PROJECT #	CITY OF CUPERTINO
PUBLIC WORKS INSPECTOR:  VOICE MAIL:	L4.10 IRRIGATION DEMOLITION PLAN - WI



- 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.
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CONTROLLER/STATION — A17 Z1 — HYDROZONE DESCRIPTION\*

FLOW (GPM) — 5.4 1" — VALVE SIZE

OPERATING PRESSURE (PSI) — 30 DRP

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



Call before you dig.

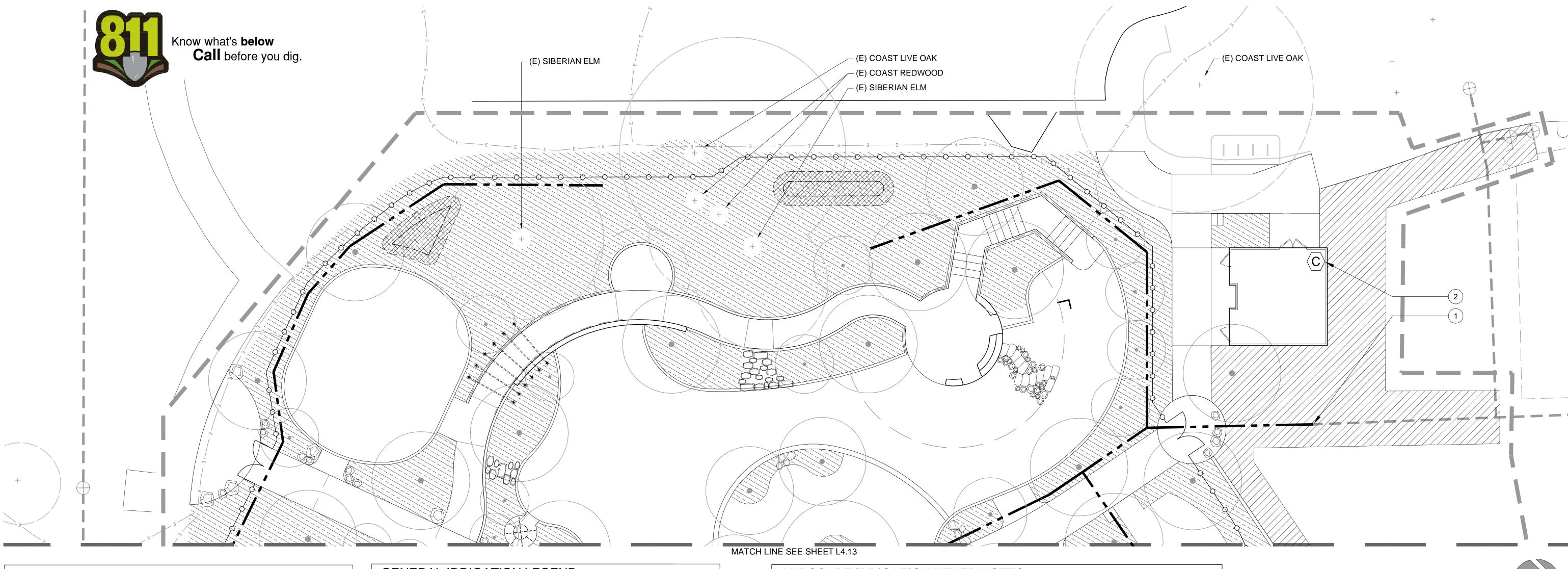


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IMPROVEMENT PLANS FOR

ALL-INCLUSIVE PLAYGROUND AT JOLLYMAN PARK

FOR CITY OF CUPERTINO USE PROJECT #	CITY OF CUPERTINO
PUBLIC WORKS INSPECTOR:	L4.11 IRRIGATION DEMOLITION PLAN - EAST
VOICE MAIL:	SHEET XX



## **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.
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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
HYDROZONE WATER-USE L 0.85

HYDROZONE WATER-USE L 0.85

HYRDOZONE AREA (SF)

\*REFER TO HYDROZONE CHART

**IRRIGATION METHOD:** 

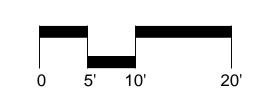
RWS - TREE ROOT WATERING SYSTEM DRP - SUB-SURFACE DRIP GRID

**ROT - POP-UP ROTOR** SPR - POP-UP SPRAY

1-1/2" PIPE SIZING CALLOUT

## LANDSCAPE IRRIGATION KEYED NOTES

- 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.
- 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.





DATE

## 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).

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

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

SIGNATURE

## MWELO REQUIRED STATEMENTS & CERTIFICATION:

- 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:

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

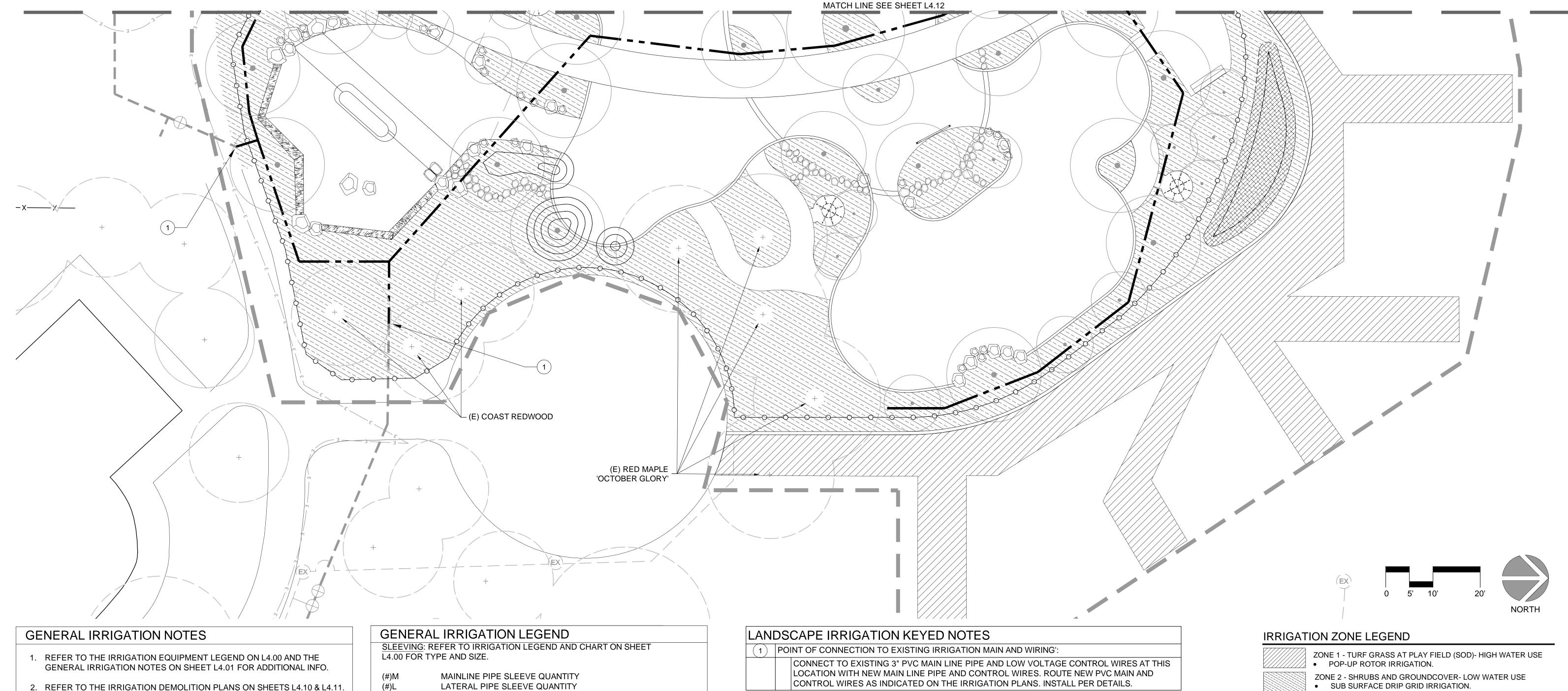
IMPROVEMENT PLANS FOR

## ALL-INCLUSIVE PLAYGROUND AT JOLLYMAN PARK

FOR CITY OF CUPERTINO USE CITY OF **CUPERTINO** PUBLIC WORKS INSPECTOR: L4.12 **IRRIGATION PLAN - WEST** VOICE MAIL: SHEET XX

800 HEARST AVENUE BERKELEY, CA 94710

02-21-2023 Date: Designed: CH Drawn: Checked: DESIGN DESIGN CITY APPR. DATE Proj. Engr: **REVISIONS** 



- 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.

WIRE/CONDUIT SLEEVE QUANTITY 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-USÉ 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

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).

• FLOOD BUBBLER IRRIGATION (2 PER TREE).

ZONE 7 - TREES - MEDIUM WATER USE

ZONE 6 - TREES - LOW WATER USE

• FLOOD BUBBLER IRRIGATION (2 PER TREE).



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

## MWELO REQUIRED STATEMENTS & CERTIFICATION:

- A DIAGRAM OF THE IRRIGATION PLAN SHOWING HYDROZONES SHALL BE KEPT WITH THE IRRIGATION CONTROLLER FOR SUBSEQUENT MANAGEMENT PURPOSES.
- 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:

PRESSURE REGULATING DEVICES ARE REQUIRED IF WATER PRESSURE IS BELOW OR EXCEEDS THE RECOMMENDED PRESSURE OF THE SPECIFIED IRRIGATION DEVICES.

CHECK VALVES OR ANTI-DRAIN VALVES ARE REQUIRED ON ALL SPRINKLER HEADS WHERE LOW POINT DRAINAGE COULD

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



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IMPROVEMENT PLANS FOR

## ALL-INCLUSIVE PLAYGROUND AT JOLLYMAN PARK

FOR CITY OF CUPERTINO USE

CITY OF **CUPERTINO** 

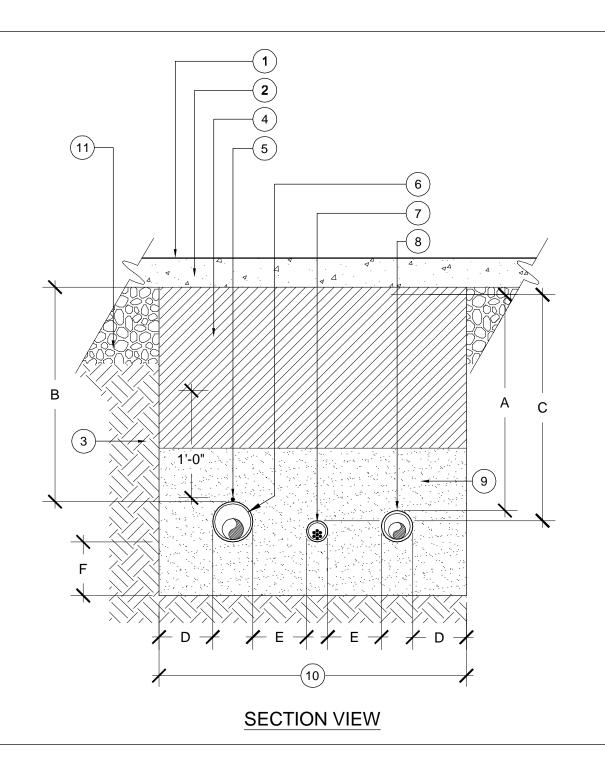
SHEET XX

PUBLIC WORKS INSPECTOR: VOICE MAIL:

**IRRIGATION PLAN - EAST** 

DEPTH	Α	В	С	D	Е	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"

- 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.



- $(\ {\sf 1}\ )$  FINISH GRADE.
- (2) VEHICULAR OR PEDESTR. PAVING.
- (3) UNDISTURBED NATIVE SOIL.
- $\left( ext{ 4 } 
  ight)$  COMPACTED BACKFILL OVER INITIAL SAND BEDDING: - BENEATH VEHICULAR PAVEMENT SHALL BE COMPACTED CLASS II

AGG., DEPTH AND COMPACTION

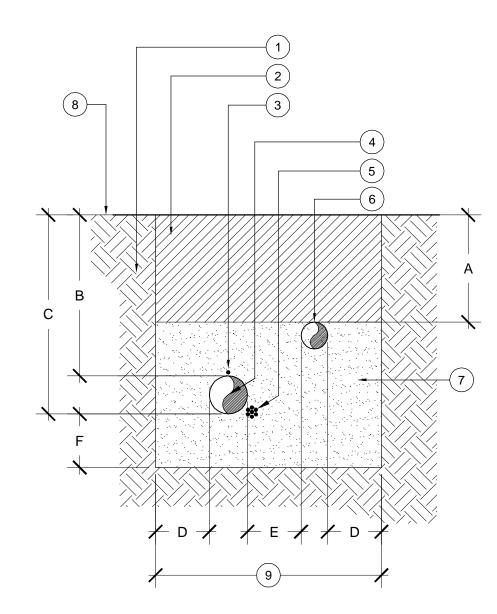
- BENEATH NON-VEHICULAR PAVEMENT SHALL BE NATIVE SITE SOIL. NO PARTICLES GREATER THAN 1". COMPACT PER SPECS.

PER ENGINEER'S PLANS

- (5) COPPER TRACE WIRE, REFER TO
- (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**

	LAT	MAIN	WIRING			
DEPTH	Α	В	С	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"

- 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.
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- 4. PROVIDE A 24" LOOP IN ALL WIRING AT CHANGES IN DIRECTION.
- 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.

## TRENCHING - BENEATH PAVING

Scale: N.T.S.

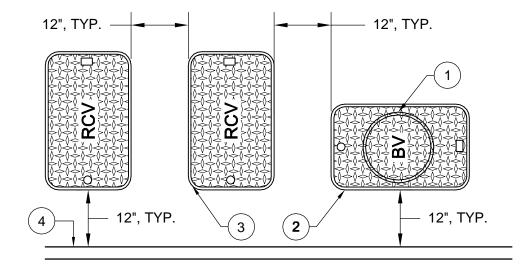
TRENCHING - WITHIN PLANTING AREAS

Scale: N.T.S.

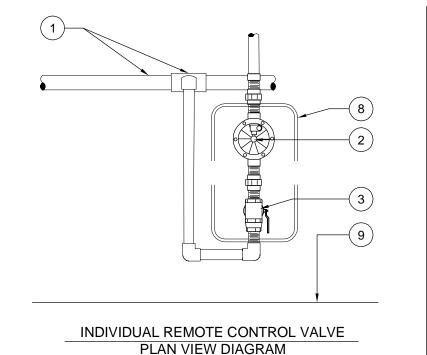
- 1. INSTALL VALVE BOXES IN GROUND COVER/ SHRUB PLANTING AREAS WHENEVER POSSIBLE
- 2. ALL VALVE BOXES MUST BE PERPENDICULAR TO EDGE OF AREA, ADJACENT PAVING OR CONCRETE CURB AND SET PARALLEL TO EACH OTHER.
- 3. ALL VALVES MUST BE CENTERED AND INSTALLED PLUMB INSIDE VALVE BOX TO FACILITATE ACCESS AND 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
- 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

CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIOI SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE EN

- **RCV REMOTE CONTROL VALVE**
- QCV QUICK COUPLER VALVE
- **BV ISOLATION BALL VALVE**
- **GV ISOLATION GATE VALVE** E - PULL BOX/ SPLICE BOX



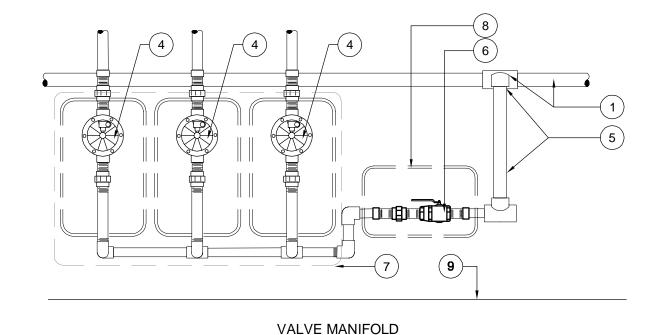
- ( 1 ) 10" ROUND VALVE BOX PER SPECS FOR REMOTE CONTROL WIRE PULL/SPLICES, TYP.
- (2) RECTANGULAR VALVE BOX PER SPECS FOR MAINLINE ISOLATION BALL VALVE, TYP.
- (3) RECTANGULAR VALVE BOX PER SPECS FOR REMOTE CONTROL VALVE ASSEMBLIES, TYP.
- (4) EDGE OF AREA, SIDEWALK, CONCRETE CURB, ETC., TYP.



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.

7. REFER TO SPECIFIC DETAIL FOR PRESSURE MAINLINE AND NON-PRESSURE LATERALS PIPE REQUIREMENTS.



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
- MANIFOLD TEE AND PRESSURE MAINLINE PIPE. MUST BE MAINLINE
- (6) MANIFOLD ISOLATION BALL VALVE. VALVE MUST BE MAINLINE SIZE.
- (7) MANIFOLD VALVES TOGETHER WHEN WITHIN 20 FEET OF EACH
- (8) VALVE BOX, TYP.
- (9) EDGE OF AREA, ADJACENT PAVING OR CONCRETE CURB.

## 4 VALVE BOX LAYOUT

Scale: N.T.S.

3 MANIFOLD INSTALLATION

3. REFER TO SPECIFIC DETAIL FOR ISOLATION BALL VALVE REQUIREMENTS

4. REFER TO SPECIFIC DETAIL FOR QUICK COUPLER VALVE REQUIREMENTS

6. REFER TO SPECIFIC DETAIL FOR VALVE BOX LAYOUT REQUIREMENTS

5. REFER TO SPECIFIC DETAIL FOR REMOTE CONTROL VALVE REQUIREMENTS.

Scale: N.T.S.



02-21-2023 Designed: СН Drawn: Checked: DESIGN DESIGN CITY APPR. DATE Proj. Engr: **REVISIONS** 

IMPROVEMENT PLANS FOR

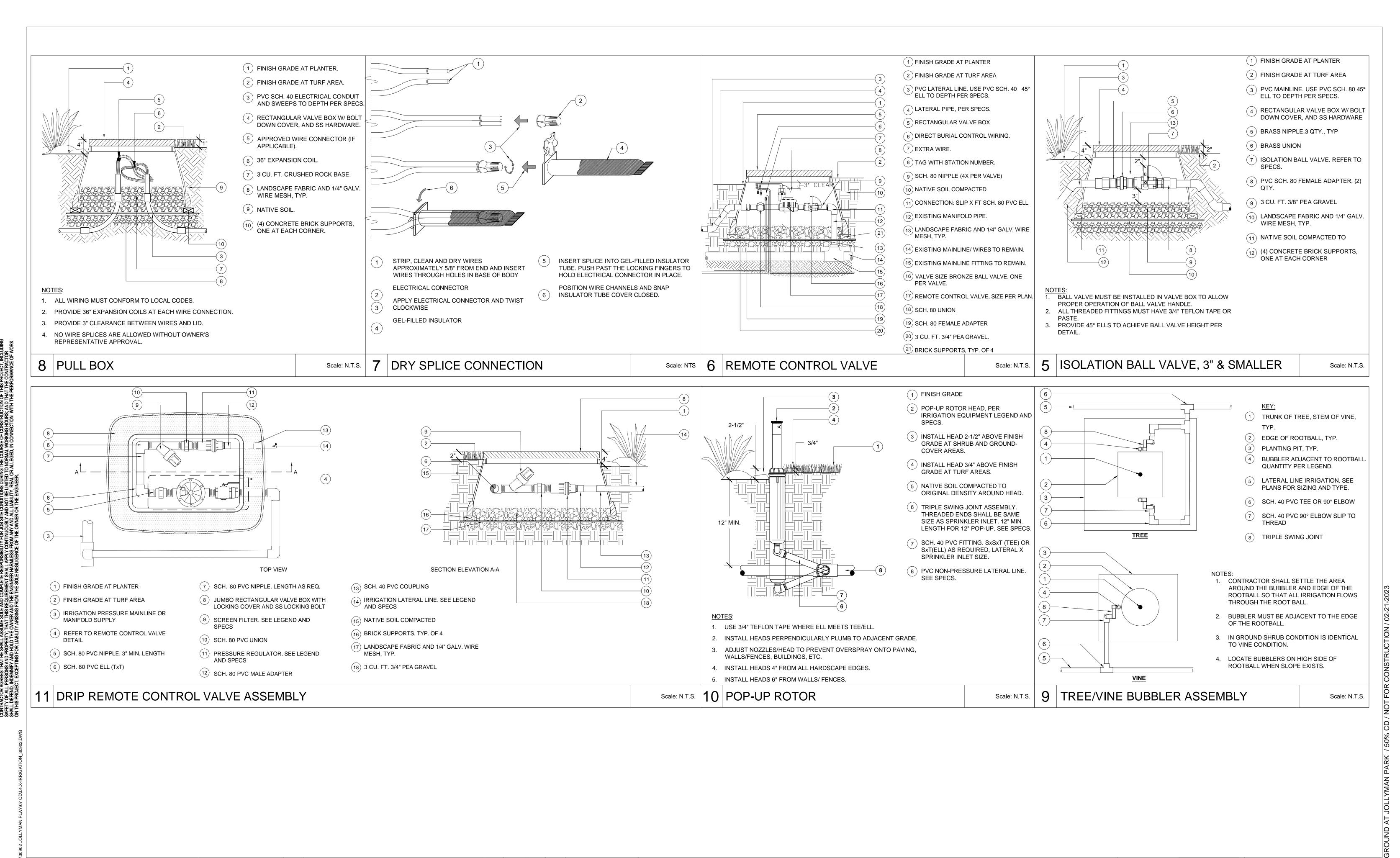
ALL-INCLUSIVE PLAYGROUND AT JOLLYMAN PARK

FOR CITY OF CUPERTINO USE PUBLIC WORKS INSPECTOR:

VOICE MAIL:

CITY OF **CUPERTINO** 

**IRRIGATION DETAILS** SHEET XX





# ALL-INCLUSIVE PLAYGROUND AT JOLLYMAN PARK

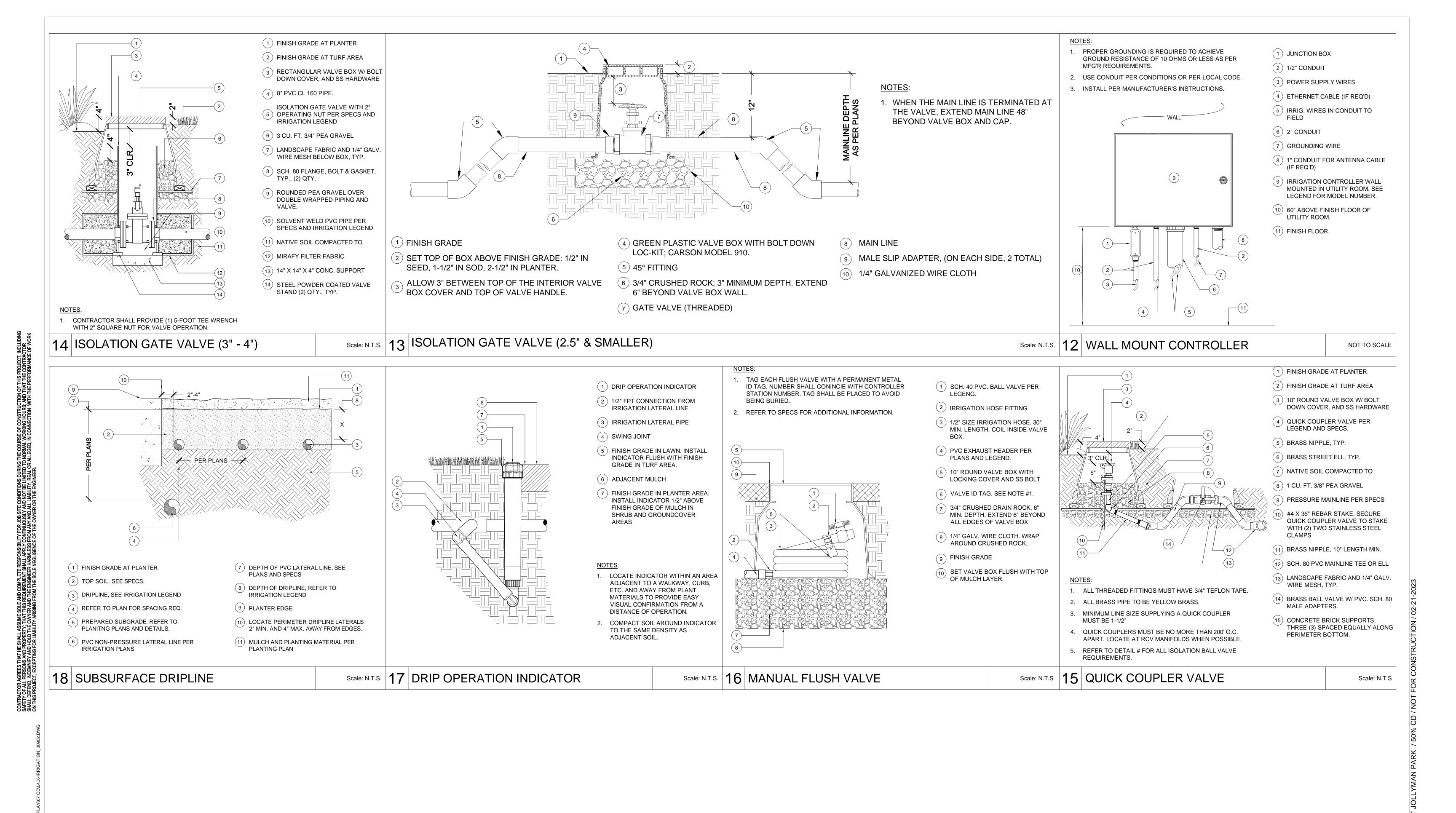
FOR CITY OF CUPERTINO USE

PUBLIC WORKS INSPECTOR:

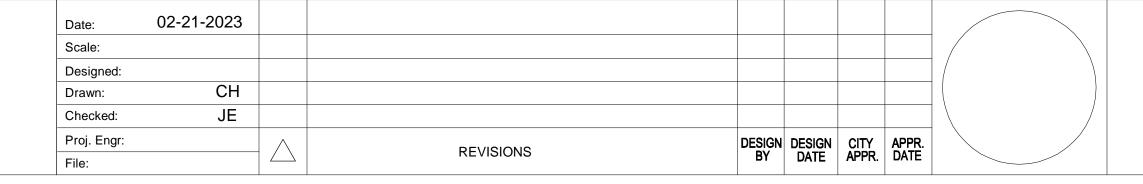
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L4.51 IRRIGATION DETAILS SHEET XX







## ALL-INCLUSIVE PLAYGROUND AT JOLLYMAN PARK

IMPROVEMENT PLANS FOR

CITY OF **CUPERTINO** 

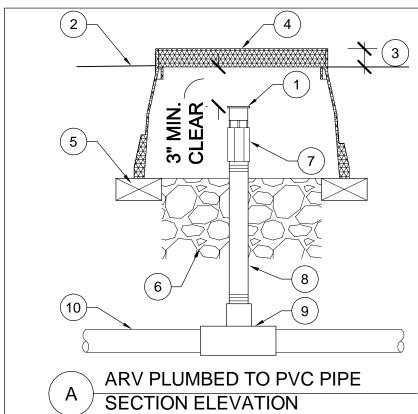
SHEET XX

FOR CITY OF CUPERTINO USE

PUBLIC WORKS INSPECTOR:

VOICE MAIL:

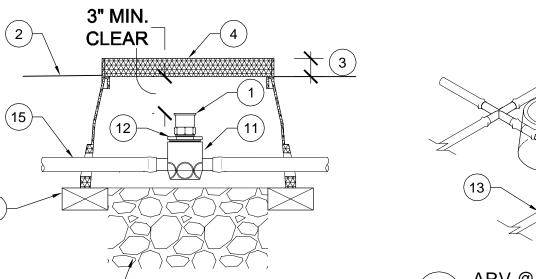
**IRRIGATION DETAILS** 



- ARV PLUMBED TO DRIPLINE SECTION ELEVATION
- <sup>2</sup> FINISH GRADE (8) 1/2" PVC SCH. 80 NIPPLE (LENGTH AS REQ.) 9 PVC REDUCTION TEE WITH 1/2" FEMALE SET TOP OF VALVE BOX ABOVE FINISH GRADE: 1/2" IN SEED, 1-1/2" IN SOD, 2-1/2" IN PLANTER

AIR VACUUM/RELIEF VALVE, REFER TO LEGEND

- (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.



(10) PVC NON-PRESSURE LATERAL LINE. SIZE AND

(11) 3/4" FPT COMBINATION TEE (INS x INS x TH)

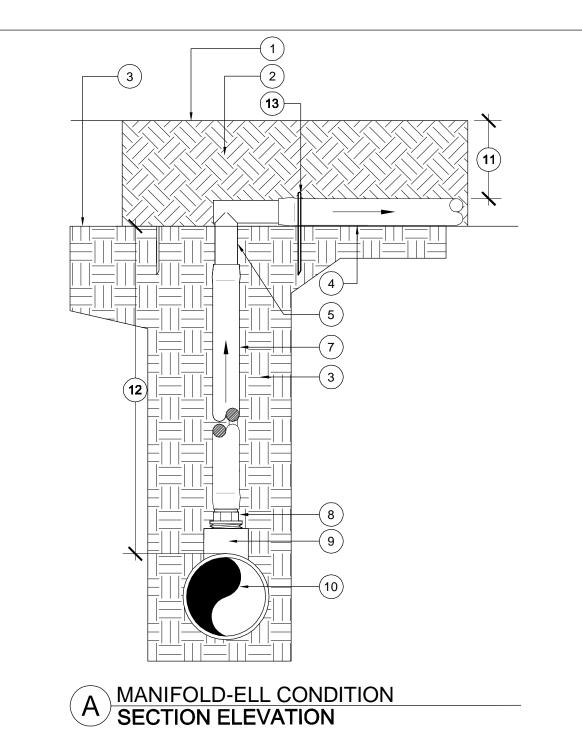
THREADED INLET

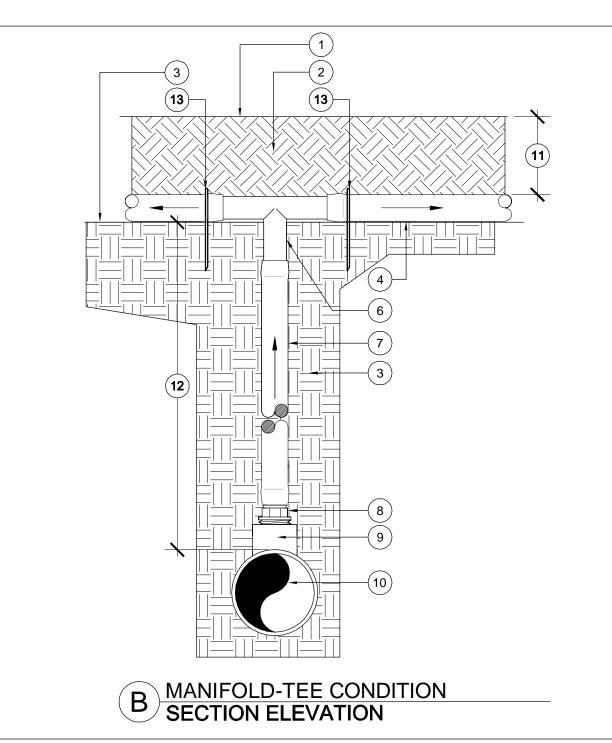
TYPE PER PLAN

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. ARV @ DRIPLINE ISOMETRIC

- 7) 1/2" PVC SCH. 80 COUPLING (THxTH) 1/2" MPT REDUCER BUSHING.
  - 13) DRIPLINE, TYPE AND DEPTH PER LEGEND
  - (14) BARBED INSERT TEE FITTING, TYP.
  - (15) BLANK POLYETHYLENE TUBING, TYP.





- (1) FINISH GRADE AT PLANTER
- (2) TOP SOIL. REFER TO SPECS
- 3 COMPACTED SUBGRADE. REFER TO SPECS.
- DRIPLINE TUBING, REFER TO IRRIGATION LEGEND FOR ADDITIONAL INFORMATION
- (5) BARBED DRIP ELBOW FITTING
- (6) BARBED DRIP TEE FITTING
- 7 BLANK POLYETHYLENE DRIP
- (8) BARBED x 1/2" MPT ADAPTER
- (9) PVC TEE (SLxSLxTH) WITH 1/2" FPT
- 10 PVC SUPPLY LATERAL LINE, SIZE AND TYPE PER PLAN
- 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

## 20 AIR VACUUM/RELIEF VALVE

Scale: N.T.S. 19 DRIPLINE TO PVC LATERAL LINE TRANSITION (SUPPLY AND EXHAUST HEADER)

Scale: N.T.S.



1 DRIPLINE, TYPE AND DEPTH PER IRRIGATION LEGEND

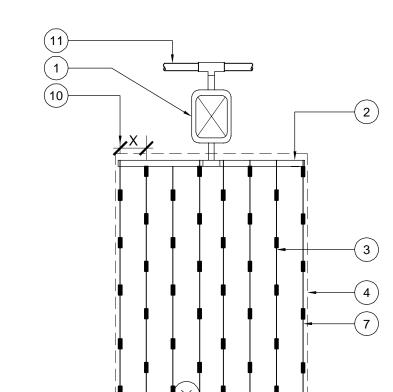
(2) BLANK POLYETHYLENE TUBING

3 BARB X MPT ADAPTER

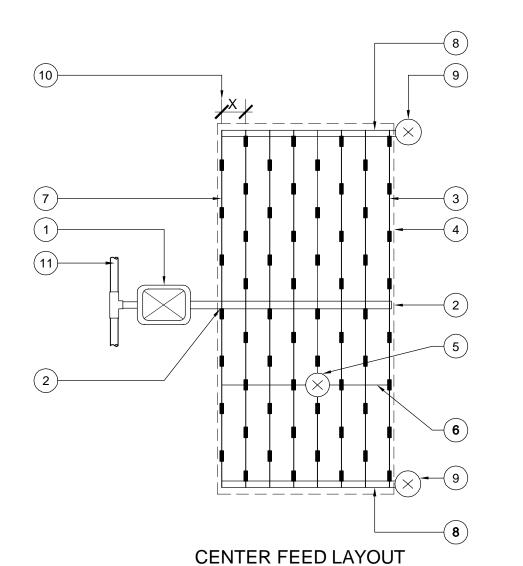
(4) SCH. 40 PVC TEE WITH FPT OUTLET

5 NON-PRESSURE LATERAL DOWNSTREAM FROM DRIP REMOTE CONTROL VALVE

- 6 BARBED INSERT 90° ELL FITTING
- 7 BARBED INSERT TEE FITTING



**END FEED LAYOUT** 



- 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
- 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.

22 DRIPLINE MANIFOLD SUPPLY

A END FEED MANIFOLD SUPPLY ISOMETRIC

Scale: N.T.S 21 DRIPLINE LAYOUT (TYPICAL)

Scale: N.T.S.



02-21-2023 Designed: СН DESIGN DESIGN CITY APPR. DATE Proj. Engr: **REVISIONS** 

B CENTER FEED MANIFOLD SUPPLY ISOMETRIC

IMPROVEMENT PLANS FOR ALL-INCLUSIVE PLAYGROUND AT JOLLYMAN PARK

PUBLIC WORKS INSPECTOR: VOICE MAIL:

FOR CITY OF CUPERTINO USE

CITY OF CUPERTINO

L4.53 IRRIGATION DETAILS SHEET XX

CODE TDEEC	BOTANICAL NAME / COMMON NAME	SPACING	HEIGHT x WIDTH	WATER / REFERENCE	EVGRN/ DECID	SUN / SHADE
TREES	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
		As Shown	30-80'h x 20-50'w	M - WUCOLS		·
PLA RAC	Platanus racemosa / California sycamore		50-80'h x 20-35'w		D	Full sun to part shade
PIN CAN	Pinus balanansis / Alanna Pina	As Shown As Shown		L - WUCOLS	E	Full sun to part shade
PIN HAL	Pinus halapensis / Aleppo Pine		30-60'h x 20-40'w		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
SHRU	BS, PERENNIALS, GRASSES					
ACH CAM	Achillea x 'Cameo' / Cameo Yarrow	18" o.c.	1-3'h	L - WUCOLS	Е	Full sun to part shade
ANI RED	Anigozanthos 'Big Red' / Red Kangaroo Paw	2' o.c.	3-4'h x 2'w	L - WUCOLS	Е	Full sun
ANI YEL	Anigozanthos 'Bush Dawn' / Yellow Kangaroo Paw	2' o.c.	4'h x 2-3'w	L - WUCOLS	Е	Full sun
ARC HOW	Arctostaphylos 'Howard McMinn' / Howard McMinn Manzanita	As shown	6'h x 6'w	L - WUCOLS	Е	Sun / Shade
CAR CAL	Carpenteria californica / Bush Anemone	6' O.C.	4'h	L-M PERRY	Е	Full sun to part shade
CAR DIV	Carex divulsa / Berkeley Sedge	18" o.c	1-2'h x 2'w	L - WUCOLS	Е	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	Е	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	Е	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	Е	Sun
LEY CON	Leymus condensatus `Canyon Prince` / Canyon Prince Wild Rye	3' o.c.	2-3'h x 2-3'w	L - WUCOLS	Е	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	Е	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

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
PHO WAV	Phormium tenax `Yellow Wave` / New Zealand Flax	3' o.c.	3-4'h x 3-4'w	L - WUCOLS	Е	Sun or shade
POL MUN	Polystichum munitum / Western Sword Fern	2' o.c.	2-4'h x 2-4'w	M - WUCOLS	Е	Partial or full shade
RHA CAL	Rhamnus californica 'Mound San Bruno' / Coffeeberry	6' o.c.	3-4'h x 8-12'w	L - WUCOLS	Е	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	Е	Full sun to part shade
GROU	NDCOVER (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	Е	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	Е	Shade/ Pt sun
LOM BRE	Lomandra longifolia `Breeze` / Mat Rush	3' o.c.	2-3'h x 2-4'w	L - WUCOLS	Е	Sun / Shade
MYO PAR	Myoporum parvifolium 'Putah Creek' / PC Trailing Myoporum	3' o.c.	1'h x 8'w	L - WUCOLS	Е	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	Е	Full sun to part shade
SAL BEE	Salvia x `Bee`s Bliss` / Sage	3' o.c	1.5'h	L - WUCOLS	Е	Full sun
VINES						
DIS BUC	Distictis buccinatoria / Blood Red Trumpet Vine	As Shown	Climber	M - WUCOLS	Е	Full sun to part shade
TEC CAP	Tecomaria capensis / Cape Honeysuckle	As Shown	Climber	L-M- WUCOLS	Е	Full sun to part shade
TRA JAS	Trachelospermum jasminoides / Star Jasmine	As Shown	Climber	M - WUCOLS	Е	Full sun or light shade
WIS SIN	Wisteria sinensis	As Shown	Climber	M - WUCOLS	D	Full sun to part shade

### Iris douglasiana / Douglas Iris L - WUCOLS IRI DOU 2' o.c. 2'h x 2'w

JUN ELK	Juncus patens 'Elk Blue' / California Gray Rush	2' o.c.	2'h x 2'w	L - WUCOLS	Е	Full sun or light shade

As Shown

2-3'h x 2-3'w

L - WUCOLS

Full sun to full shade

Full sun or light shade

BIORETENTION PLANTS \* PLACE 3 INCHES OF NON-FLOATABLE MULCH IN AREAS BETWEEN STORMWATER PLANTINGS AND SIDE SLOPES.

## PLANTING NOTES:

1. ALL UNDERGROUND UTILITIES SHALL BE LOCATED BEFORE START OF WORK.

Chondropetalum tectorum / Cape Rush

- 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
- 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.

CUPERTINO

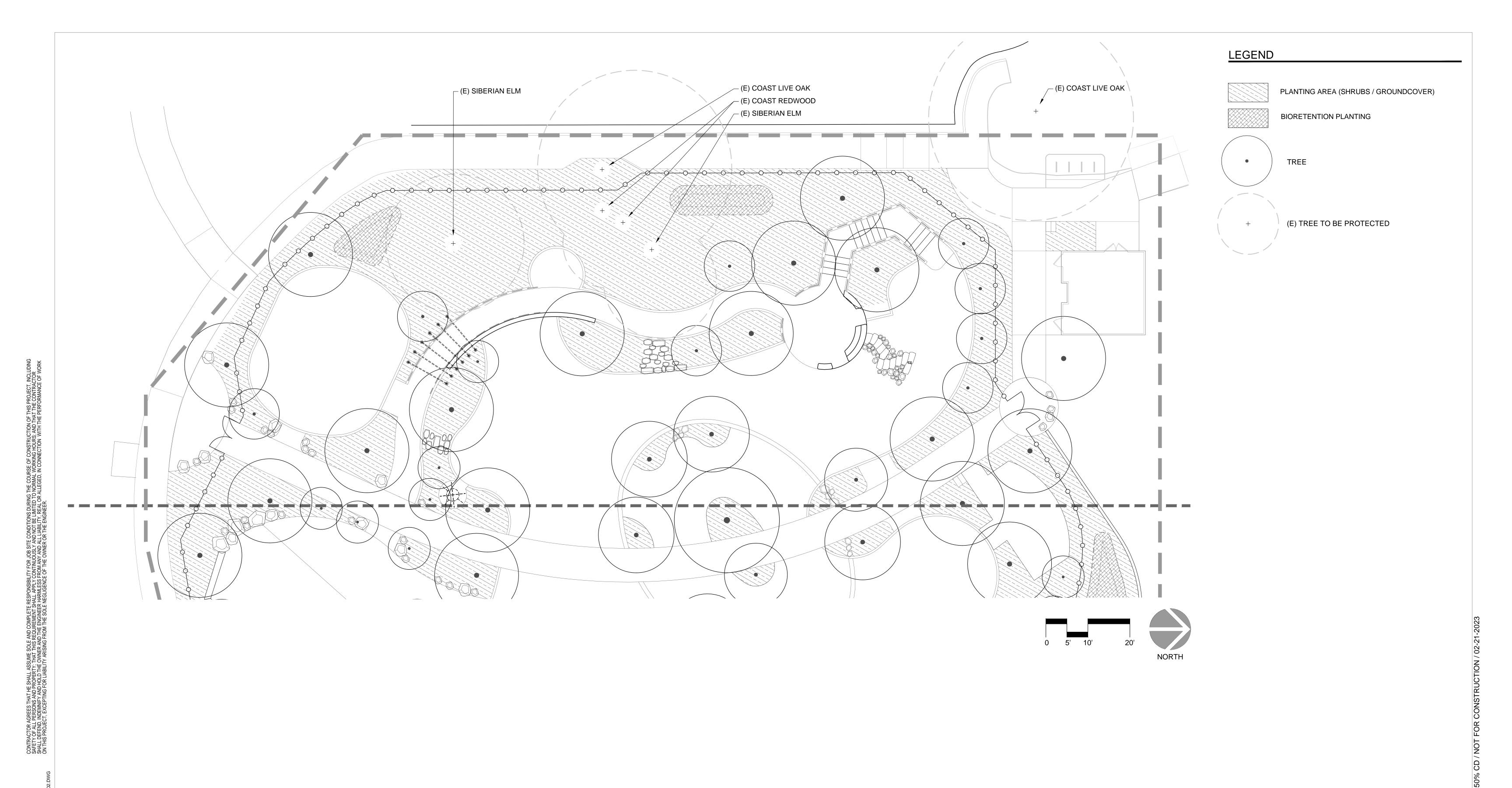
IMPROVEMENT PLANS FOR

## ALL-INCLUSIVE PLAYGROUND AT JOLLYMAN PARK

FOR CITY OF CUPERTINO USE CITY OF CUPERTINO PUBLIC WORKS INSPECTOR: PLANTING SCHEDULE VOICE MAIL: SHEET

800 HEARST AVENUE www.migcom.com

02-21-2023 Designed: СН Drawn: Checked: Proj. Engr: DESIGN DESIGN CITY APPR. DATE REVISIONS

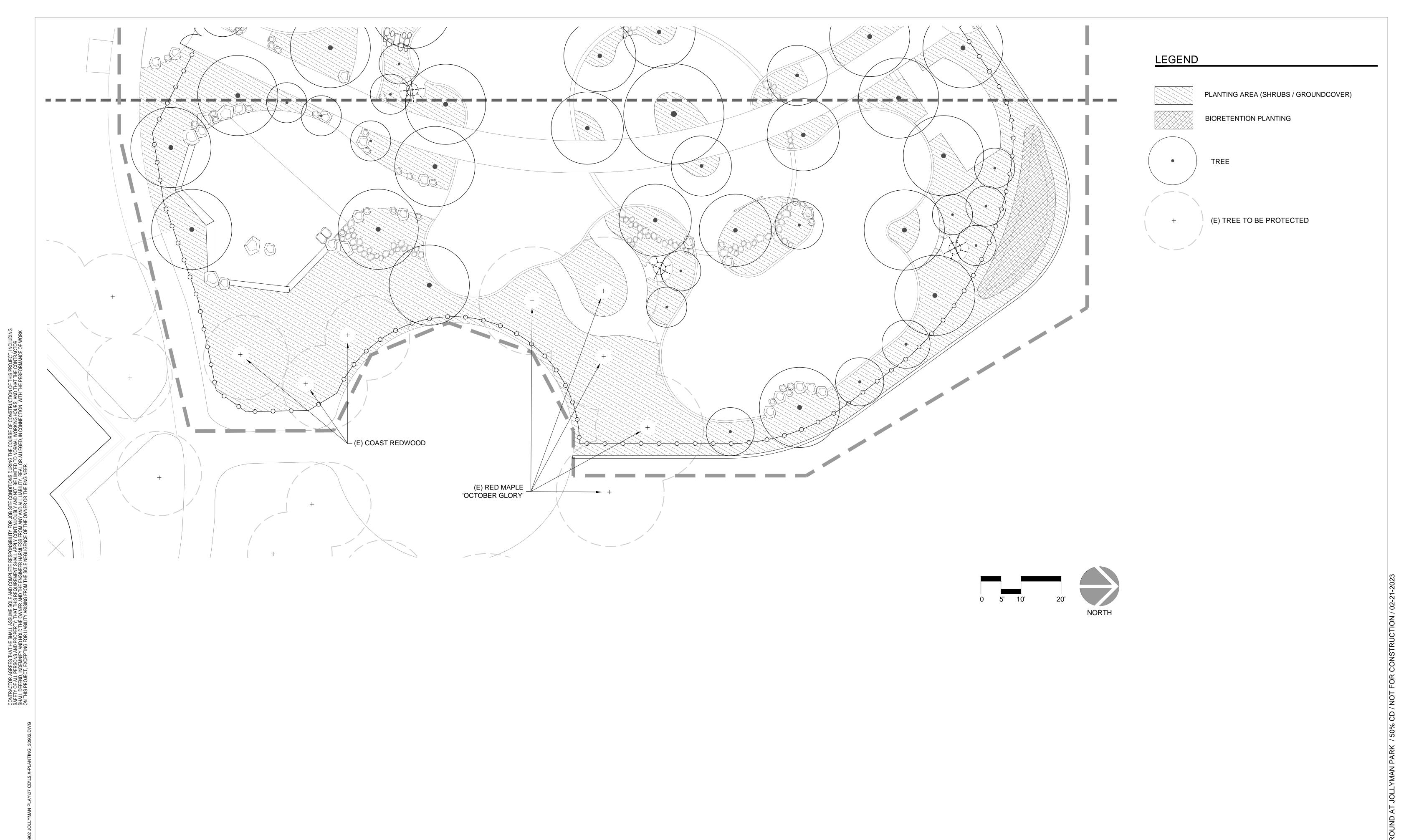


M	I G
800 HEARST AVENUE	TEL (510) 845-7549
BERKELEY, CA 94710	www.migcom.com

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# ALL-INCLUSIVE PLAYGROUND AT JOLLYMAN PARK

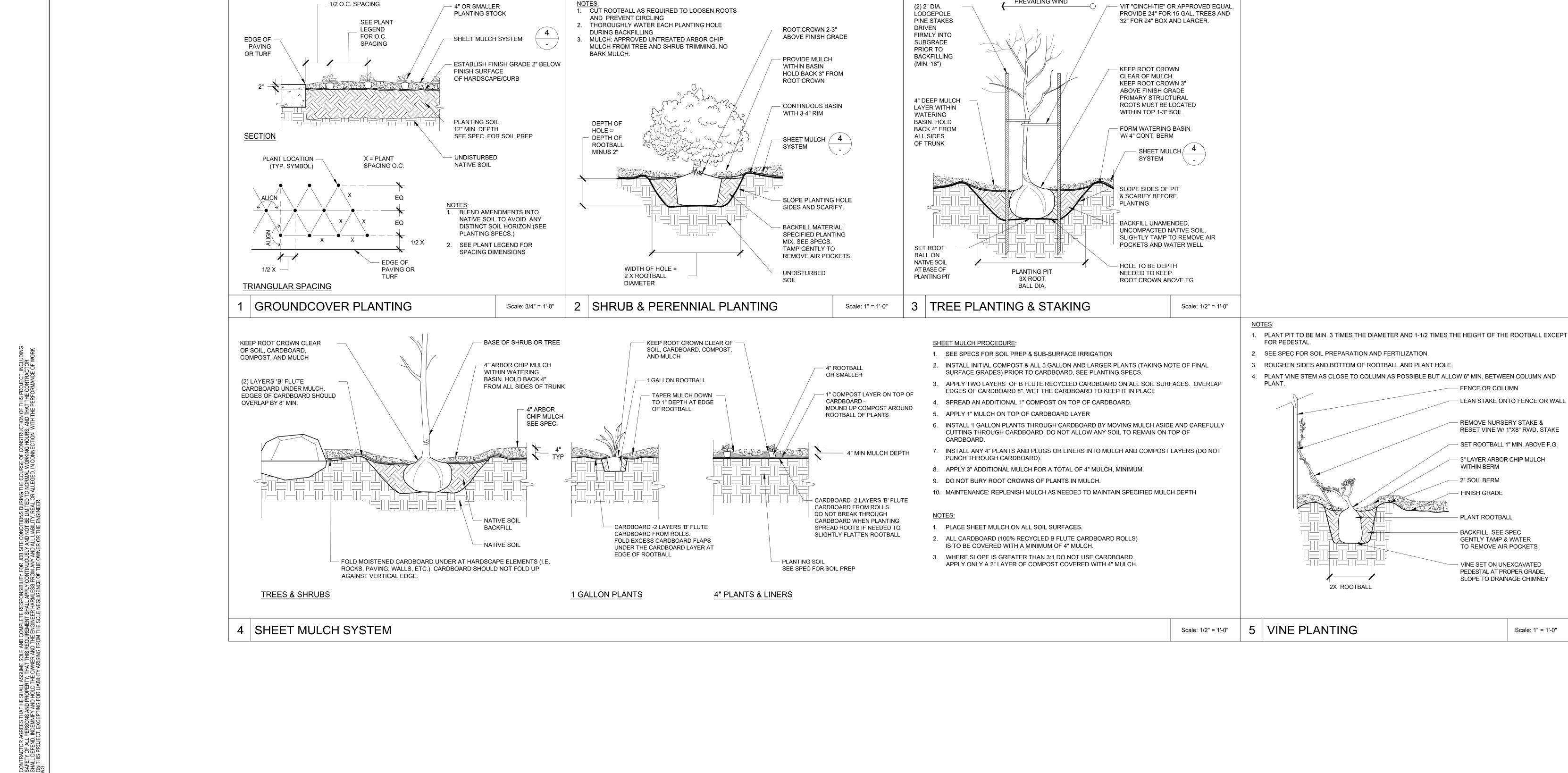
FOR CITY OF CUPERTINO USE PROJECT #	CITY OF CUPERTINO
PUBLIC WORKS INSPECTOR:	L5.10 PLANTING PLAN - WEST
VOICE MAIL:	SHEET



800 HEARST AVENUE BERKELEY, CA 94710

ALL-INCLUSIVE PLAYGROUND
AT JOLLYMAN PARK

FOR CITY OF CUPERTINO USE PROJECT #	CITY OF CUPERTINO
PUBLIC WORKS INSPECTOR:	L5.11 PLANTING PLAN - EAST
VOICE MAIL:	SHEET



02-21-2023 Designed: CH Proj. Engr: DESIGN DESIGN CITY APPR. DATE **REVISIONS** 

IMPROVEMENT PLANS FOR

ALL-INCLUSIVE PLAYGROUND AT JOLLYMAN PARK

PREVAILING WIND

FOR CITY OF CUPERTINO USE CITY OF **CUPERTINO** PLANTING DETAILS VOICE MAIL: SHEET

FENCE OR COLUMN

LEAN STAKE ONTO FENCE OR WALL

REMOVE NURSERY STAKE &

- 3" LAYER ARBOR CHIP MULCH

WITHIN BERM

- 2" SOIL BERM

- FINISH GRADE

PLANT ROOTBALL

- BACKFILL, SEE SPEC

GENTLY TAMP & WATER

TO REMOVE AIR POCKETS

VINE SET ON UNEXCAVATED

PEDESTAL AT PROPER GRADE,

SLOPE TO DRAINAGE CHIMNEY

Scale: 1" = 1'-0"

RESET VINE W/ 1"X8" RWD. STAKE

- SET ROOTBALL 1" MIN. ABOVE F.G.

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

## (E) CONDUIT - CONCEALED IN WALLS OR CEILING. (E) CONDUIT - TO BE REMOVED. (N) DEVICE OR EQUIP (EXAMPLE) $\Psi \square \emptyset$ \$ (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" SURFACE MOUNTED WIRE RACEWAY UP/DOWN IN-GRADE PULL BOX. SINGLE LINE = NON-TRAFFIC RATED. DOUBLE LINE = TRAFFIC RATED. "Y" = UNIQUE BOX IDENTIFIER. "X" = SYSTEM:

P = POWER

F = FIRE ALARM

L = LIGHTING

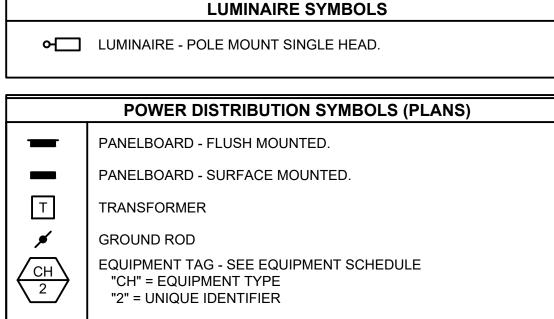
C = COMMUNICATIONS

DESIGN DESIGN CITY APPR.

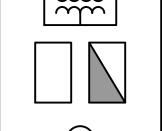
BY DATE APPR.

**NEW VS. EXISTING** 

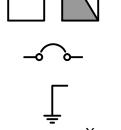
(N) CONDUIT - CONCEALED IN WALLS OR CEILING.



## POWER DISTRIBUTION SYMBOLS (SINGLE LINE)



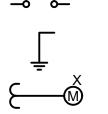
TRANSFORMER (SINGLE LINE)



STANDARD / EMERGENCY PANEL BOARD

CIRCUIT BREAKER, 3-POLE UON.

**GROUND ROD** 



METER WITH CURRENT TRANSFORMERS. "X" INDICATES METER IDENTIFIER. SEE SCHEDULE. U = UTILITY METER M# = OWNER METER, SEE SPECIFICATIONS

METER IN STANDALONE ENCLOSURE **CURRENT TRANSFORMERS** 

METER INSTALLED WITHIN EQUIPMENT

### OWNERSHIP OF INSTRUMENTS OF SERVICE

- 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.
- 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**

- 2022 CALIFORNIA BUILDING CODE (CBC), VOLUMES #1 AND #2 (PART 2,TITLE 24, CCR).
- 2. 2022 CALIFORNIA ELECTRICAL CODE (PART 3, TITLE 24, CCR).
- 2022 CALIFORNIA MECHANICAL CODE (CMC) (PART 4, TITLE 24, CCR).
- 2022 CALIFORNIA PLUMBING CODE (CPC) (PART 5, TITLE 24, CCR).
- 5. 2022 CALIFORNIA ENERGY CODE (PART 6,TITLE 24, CCR).
- 2022 CALIFORNIA FIRE CODE (CFC) (PART 9,TITLE 24, CCR).
- 2022 CALIFORNIA GREEN CODE (PART 11, TITLE 24, CCR).
- 2022 CALIFORNIA REFERENCED STANDARDS CODE (PART 12, TITLE 24,
- 9. 2016 NFPA 72 NATIONAL FIRE ALARM CODE.
- 10. 2015 NFPA 720 STANDARDS FOR CARBON MONOXIDE DETECTION AND
- 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 INFORMATION OVERALL SITE PLAN

**ENLARGED SITE PLAN - WEST** E1.10 **ENLARGED SITE PLAN - EAST** 

SCHEDULES

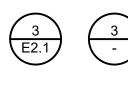
DETAILS E8.00

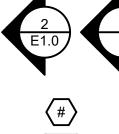
E7.00

### 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.

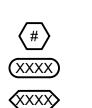
CONDITIONS.

## **GENERAL SYMBOLS**





"2" DENOTES SECTION OR ELEVATION NUMBER "E1.0" DENOTES SHEET NUMBER. '-" DENOTES SAME SHEET.



SHEET NOTE TAG - SEE APPLICABLE NOTE ON SAME SHEET

IMPROVEMENT PLANS FOR

# ALL-INCLUSIVE PLAYGROUND AT JOLLYMAN PARK

**GENERAL NOTES** 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

OTHER WORK TO AVOID CONFLICTS.

FROM THIS WORK.

COMPLETE INSTALLATION.

WATERTIGHT FITTINGS.

SCHEDULING OF WORK.

REQUIRED BY LATEST CODES.

ARCHITECT.

LISTED AND LABELED FOR THE APPLICATION.

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

COMPLY WITH ALL APPLICABLE CODES AND REGULATIONS. MATERIALS AND

EQUIPMENT SHALL BE U.L. AND CALIFORNIA STATE FIRE MARSHAL (CSFM)

CONSTRUCTION SCHEDULE OF ELECTRICAL WORK. THE CONSTRUCTION

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF PERSONS

FOR LIABILITY, PERSONAL, PROPERTY DAMAGE, TO FULLY PROTECT THE

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

ALL MATERIALS PROVIDED FOR THE PROJECT SHALL BE NEW, UNLESS

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

ALL CONDUITS SHALL BE A MINIMUM 3/4," UNLESS OTHERWISE NOTED.

(AC) CABLE IS NOT PERMITTED. PROVIDE ALL WIRES AND WIRE SIZES

ALL WIRE SIZING SHOWN ON THE CONSTRUCTION DOCUMENTS UTILIZES

CONTRACTOR SHALL VERIFY ALL CIRCUIT LENGTHS WITH ACTUAL FIELD

ALL POWER CIRCUITS SHALL HAVE A DEDICATED NEUTRAL. SHARED

BRANCH CIRCUITRY TO A MAXIMUM OF 3% VOLTAGE DROP.

ASSUMED ROUTING AND CIRCUIT LENGTHS TO DETERMINE VOLTAGE DROP

CONDITIONS AND SHALL PROVIDE INCREASED WIRE AND CONDUIT SIZES AS REQUIRED TO LIMIT FEEDERS TO A MAXIMUM OF 2% VOLTAGE DROP AND

NEUTRALS WITH TIE-BARS AT THE BREAKERS IN THE PANEL SHALL NOT BE

CONDUITS SHALL NOT BE USED AS A GROUND PATH. ALL CONDUITS SHALL

CONTAIN A GROUNDING CONDUCTOR, SIZED PER NEC/CEC REQUIREMENTS.

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

DEPARTMENT THROUGHOUT THE PROJECT TO INSURE COORDINATION AND

PERMANENT LABEL. TO IDENTIFY WHERE THE OPPOSING END TERMINATES.

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

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

CONDUIT AND WIRING ARE SHOWN ON THESE PLANS DIAGRAMMATICALLY.

SEISMIC ANCHORAGE OF ALL ELECTRICAL EQUIPMENT SHALL BE PROVIDED IN

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

MAINTAINED ABOUT ALL ELECTRIC EQUIPMENT TO PERMIT READY AND SAFE ORPERATION AND MAINTENANCE OF SUCH EQUIPMENT PER CEC ARTICLE

ALL CONTROLS, SWITCHES, AND ELECTRICAL RECEPTACLE OUTLETS SHALL BE NOT MORE THAN +48" AFF TO TOP OF THE OUTLET BOX, NOR LESS THAN

DOCUMENTATION FOR THE LIGHTING AND LIGHTING CONTROLS SYSTEM

ACCEPTANCE TESTING PER REQUIREMENTS OF CEC SECTION 130.4. SUBMIT

EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD TO SUIT SITE

SUFFICIENT ACCESS AND WORKING SPACE SHALL BE PROVIDED AND

FOR CORRECT BREAKER, WIRING, AND CONDUIT SIZES BASED ON ACTUAL

INCLUDE UTILITY COMPANY'S "CONTRACT-DOCUMENTS" WITH THE BID.

PROVIDE A PULL CORD IN EVERY EMPTY CONDUIT FOR USE IN FUTURE

REMAIN IN CONTACT WITH THE UTILITY COMPANY'S ENGINEERING

CONSTRUCTION. LABEL EACH END OF THE CONDUIT WITH TYPED,

EQUIPMENT TO BE USED FOR THE PROJECT.

ACCORDANCE WITH TITLE 24, CBC SECTION 1632A.

+15" AFF TO BOTTOM OF OUTLET BOX PER CBC 11B-308.1.

CONTRACTOR SHALL PERFORM ALL TESTING AND COMPLETE ALL

REVIEW PRIOR TO PURCHASE.

ALL DOCUMENTATION TO THE AHJ.

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

ALL ELECTRICAL EQUIPMENT INSTALLED OUTDOORS SHALL BE

OTHERWISE NOTED. PROVIDE ALL INCIDENTAL MATERIALS REQUIRED FOR A

AND PROPERTY AND SHALL PROVIDE INSURANCE COVERAGE AS NECESSARY

OWNER, ARCHITECT AND ENGINEER FROM ANY AND ALL CLAIMS RESULTING

SCHEDULE SHALL IDENTIFY ALL SIGNIFICANT MILESTONES WITH COMPLETION

BEFORE BEGINNING CONSTRUCTION, PROVIDE TO THE ARCHITECT A

OBTAIN AND PAY FOR ALL PERMITS, LICENSES AND INSPECTION FEES

REQUIRED BY THIS CONTRACT WORK, UNLESS OTHERWISE NOTED.

FEBRUARY 2023

800 HEARST AVENUE

TEL (510) 845-7549

www.migcom.com

02-21-2023

DM

**REVISIONS** 

Scale: Designed:

Drawn:

Checked:

Proj. Engr:

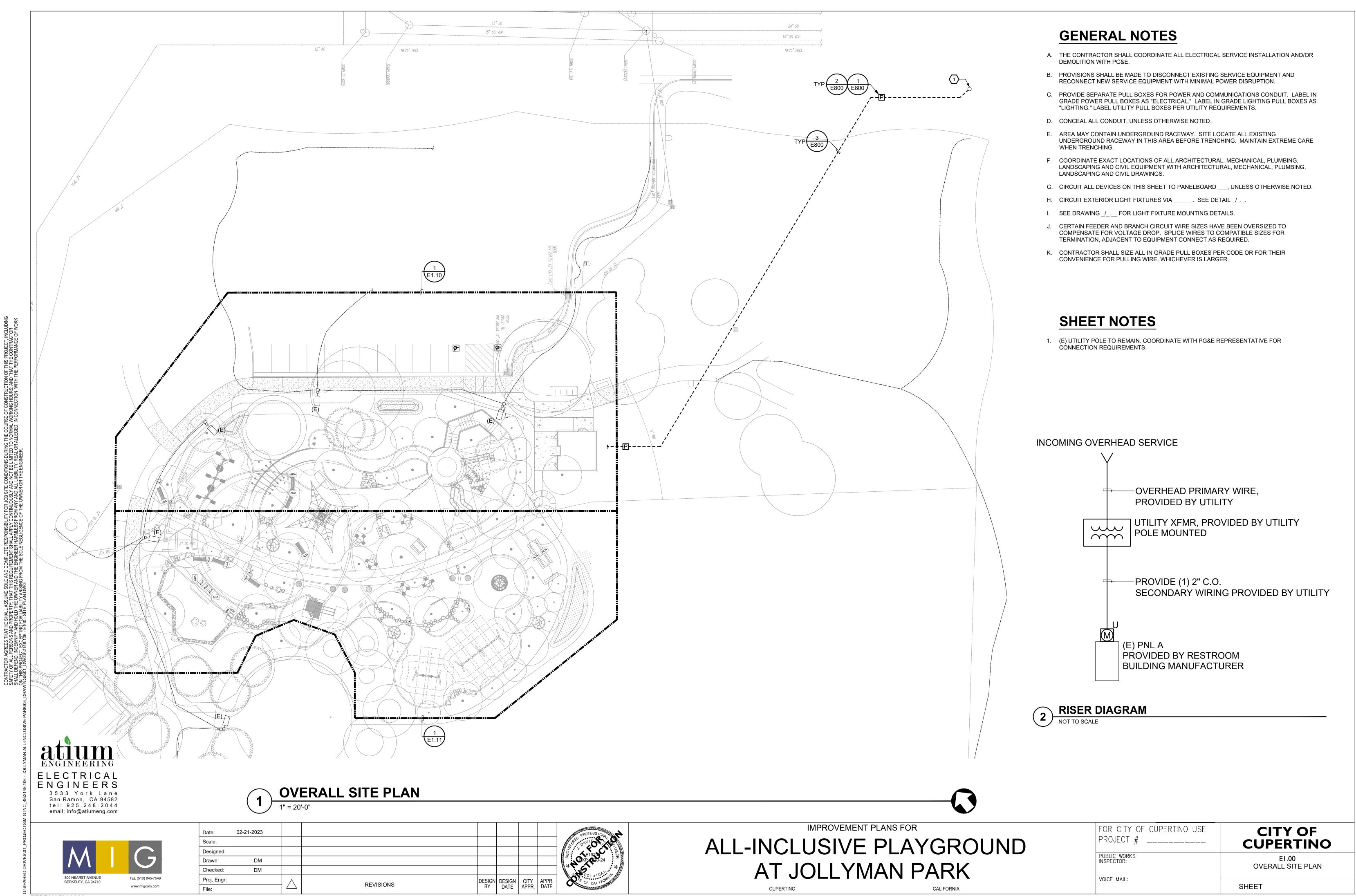
FOR CITY OF CUPERTINO USE CITY OF PROJECT # \_\_\_\_\_ **CUPERTINO** PUBLIC WORKS INSPECTOR: **GENERAL INFORMATION** VOICE MAIL: SHEET

PLAN OR DETAIL DESIGNATION "3" DENOTES DETAIL OR PLAN NUMBER "E2.1" DENOTES SHEET NUMBER. "-" DENOTES SAME SHEET. SECTION OR ELEVATION DESIGNATION

(XXXX) (XXXX)

FEEDER SCHEDULE TAG, SEE APPLICABLE SCHEDULE

CONDUIT SCHEDULE TAG, SEE APPLICABLE SCHEDULE

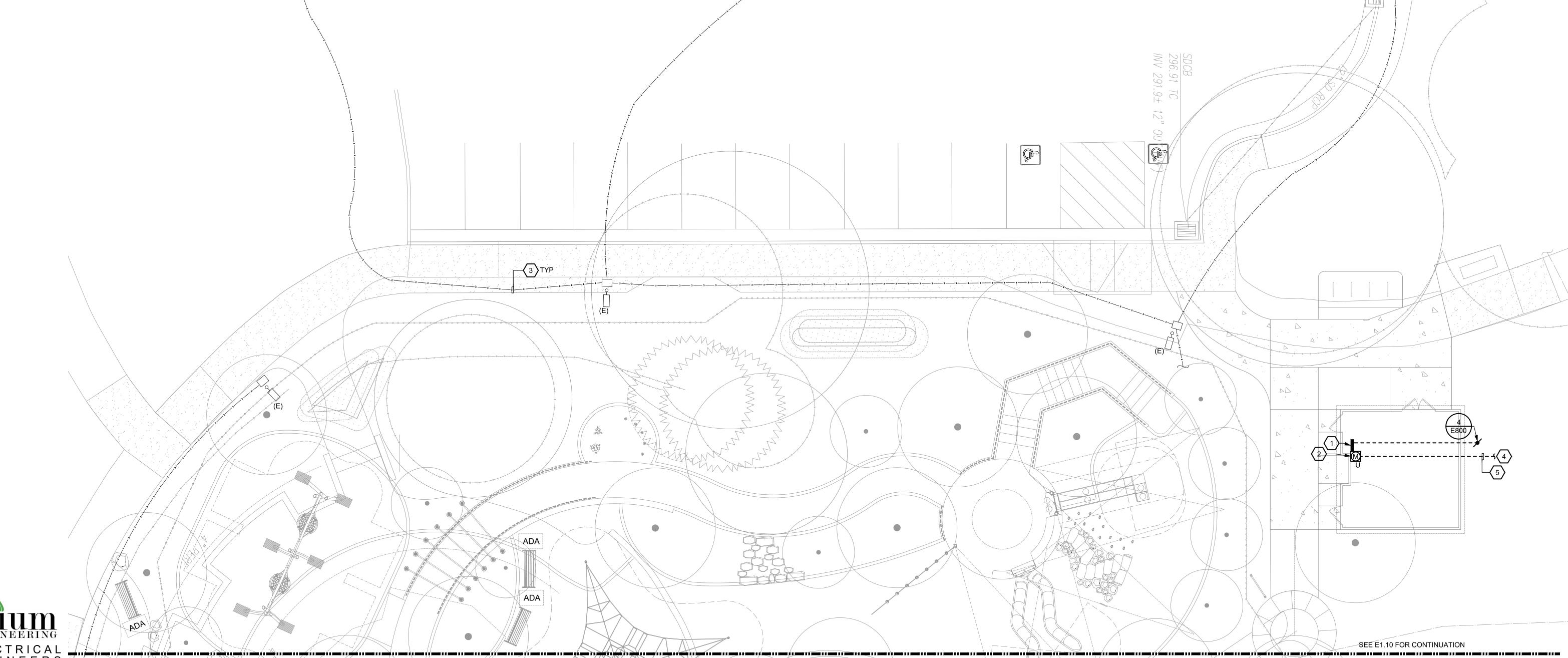


## SHEET NOTES

- 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.
- 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



3 5 3 3 York Lane San Ramon, CA 94582 tel: 9 2 5 . 2 4 8 . 2 0 4 4 email: info@atiumeng.com

**ENLARGED SITE PLAN - WEST** 

02-21-2023 Designed: Drawn: Checked: Proj. Engr: **REVISIONS** 

IMPROVEMENT PLANS FOR ALL-INCLUSIVE PLAYGROUND AT JOLLYMAN PARK

FOR CITY OF CUPERTINO USE CITY OF CUPERTINO EI.IO ENLARGED SITE PLAN - WEST VOICE MAIL:

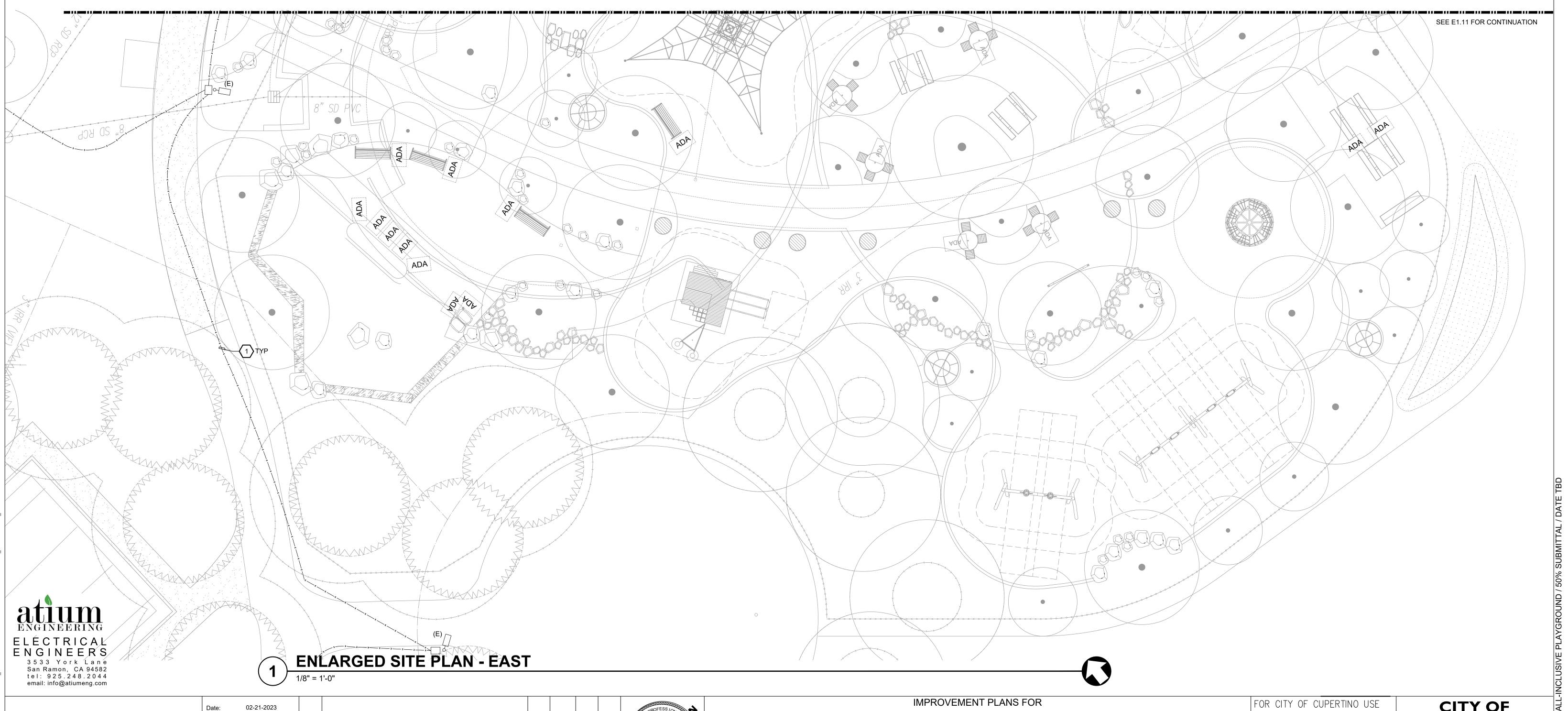
SHEET

## 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.



FEBRUARY 2023

Designed:

Proj. Engr

**REVISIONS** 

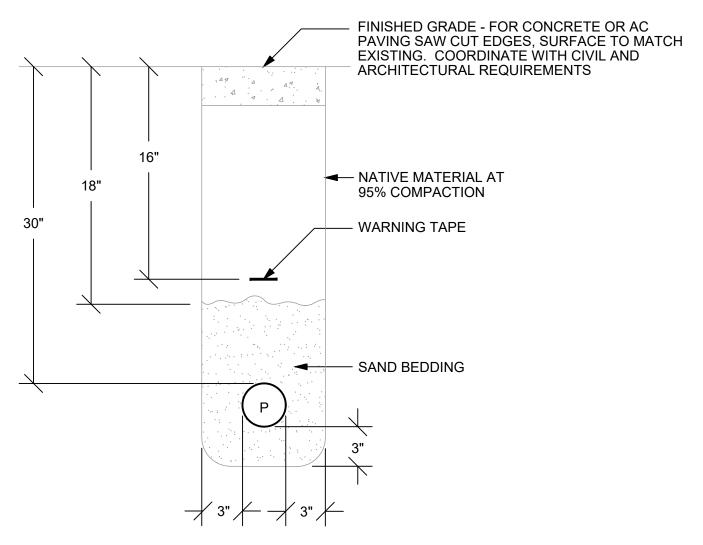
ALL-INCLUSIVE PLAYGROUND AT JOLLYMAN PARK

CALIFO

FOR CITY OF CUPERTINO USE PROJECT #	CITY OF CUPERTINO
PUBLIC WORKS INSPECTOR:	EI.II ENLARGED SITE PLAN - EAST

VOICE MAIL:

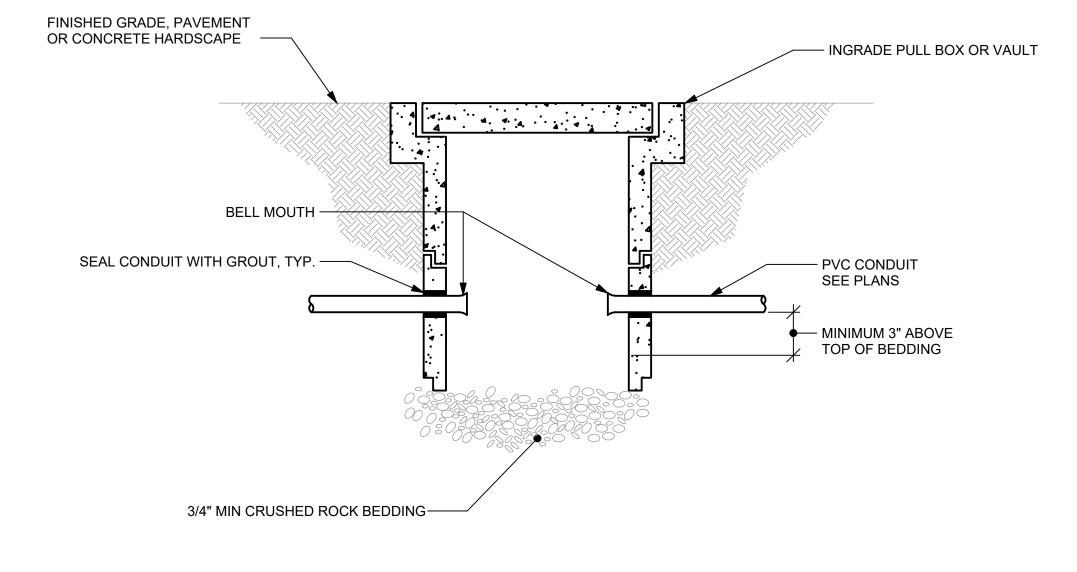
SHEET



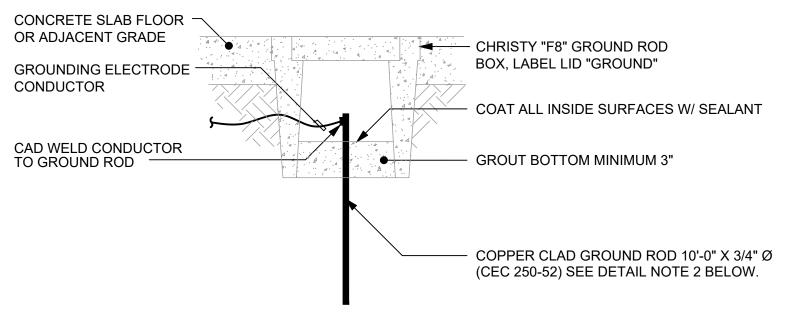
## **DETAIL NOTES**

- 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.





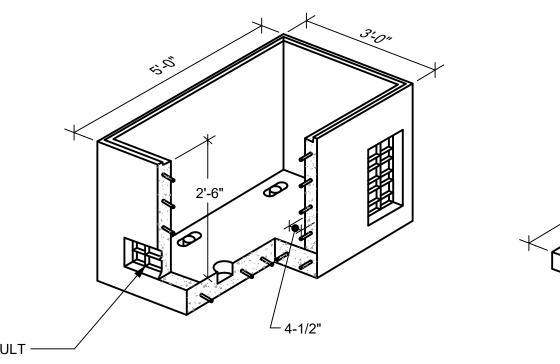


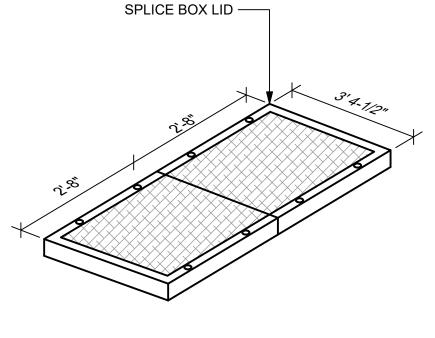


- <u>DETAIL NOTES</u>

  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.





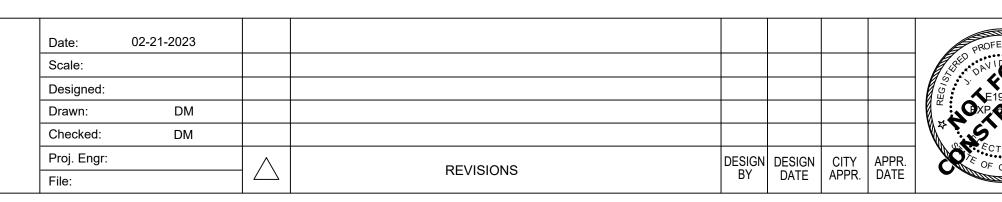


## **DETAIL NOTES**

- 1. HEAVY DUTY REINFORCED CONCRETE BOX WITH STANDARD KNOCKOUTS AND PULLING IRONS. CONFORM WITH PG & E REQUIREMENTS.
  - 3' X 5' PG&E ELECTRICAL PULL BOX







IMPROVEMENT PLANS FOR ALL-INCLUSIVE PLAYGROUND AT JOLLYMAN PARK

FOR CITY OF CUPERTINO USE CITY OF CUPERTINO PUBLIC WORKS INSPECTOR: E8.00 DETAILS VOICE MAIL: SHEET