

# OAK KNOLL ELEMENTARY SCHOOL

MENLO PARK, CALIFORNIA

## PROJECT DIRECTORY

CLIENT  
MENLO PARK CITY SCHOOL DISTRICT  
181 ENCINAL AVE, AHERTON  
AHERTON, CA 94027  
PH: 650-321-7140 EXT 5614  
CONTACT: AHMAD SHEIKHOESLAMI

LANDSCAPE ARCHITECT  
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2671 CROW CANYON ROAD  
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PH: (925) 736-8176  
CONTACT: MELONIE O'SULLIVAN

## GENERAL NOTES

1. THE CONTRACTOR AGREES THAT, IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR 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 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 ENGINEER.
2. EXCAVATIONS SHALL BE ADEQUATELY SHORED, BRACED AND SHEETED SO THAT THE EARTH WILL NOT SLIDE OR SETTLE AND SO THAT ALL EXISTING IMPROVEMENTS OF ANY KIND WILL BE FULLY PROTECTED FROM DAMAGE. ANY DAMAGE RESULTING FROM A LACK OF ADEQUATE SHORING, BRACING AND SHEETING, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND HE SHALL EFFECT NECESSARY REPAIRS OR RECONSTRUCTION AT HIS OWN EXPENSE. WHERE THE EXCAVATION FOR A CONDUIT TRENCH, AND/OR STRUCTURE IS FIVE FEET OR MORE IN DEPTH, THE CONTRACTOR SHALL PROVIDE ADEQUATE SHEETING, SHORING AND BRACING OR EQUIVALENT METHOD, FOR THE PROTECTION OF LIFE, OR LIMB, WHICH SHALL CONFORM TO THE APPLICABLE CONSTRUCTION SAFETY ORDERS OF THE DIVISION OF INDUSTRIAL SAFETY OF THE STATE OF CALIFORNIA, THE CONTRACTOR SHALL ALWAYS COMPLY WITH OSHA REQUIREMENTS.
3. ALL APPLICABLE REQUIREMENTS OF THE CALIFORNIA CONSTRUCTION AND GENERAL INDUSTRY SAFETY ORDERS, THE OCCUPATIONAL SAFETY AND HEALTH ACT AND THE CONSTRUCTION SAFETY ACT SHALL BE MET.
4. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN PERMITS NECESSARY TO PERFORM THE WORK SHOWN IN THESE PLANS FROM THE APPROPRIATE AGENCIES.
5. THE CONTRACTOR SHALL TAKE EFFECTIVE ACTION TO PREVENT THE FORMATION OF AN AIRBORNE DUST NUISANCE AND SHALL BE RESPONSIBLE FOR ANY DAMAGE RESULTING FROM THEIR FAILURE TO DO SO.
6. THE CONTRACTOR MUST PROVIDE FOR SAFE ACCESSIBLE INGRESS AND EGRESS FOR ADJACENT PROPERTY OWNERS AND EVA THROUGHOUT THE PERIOD OF CONSTRUCTION. TEMPORARY THROUGH ACCESS FOR THE GENERAL PUBLIC DUE TO CONSTRUCTION STAGING OR LIMITATIONS MUST BE FULLY REVIEWED AND APPROVED BY THE OWNER PRIOR TO IMPLEMENTATION. ALL ACCESS MUST BE SAFE, SECURED, FLAGGED, SIGNED, AND ACCESSIBLE PER THE APPROVED SITE ACCESS PLAN SUBMITTED BY THE CONTRACTOR AND REQUIRED BY THE OWNER.
7. DURING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR EMERGENCY VEHICLE ACCESS, PUBLIC SAFETY AND SAFETY OF EXISTING STRUCTURES. THE CONTRACTOR SHALL PROVIDE ALL LIGHTS, SIGNS, FENCING, BARRICADES, TRAFFIC CONTROLS, FLAGGERS, SHORINGS, BRACING AND GUYS OR OTHER DEVICES NECESSARY TO PROVIDE FOR SAFETY IN ACCORDANCE WITH ALL NATIONAL, STATE SPECS AND LOCAL SAFETY ORDINANCES.
8. THE CONTRACTOR SHALL POST EMERGENCY TELEPHONE NUMBERS FOR POLICE, FIRE, AMBULANCE, AND THOSE AGENCIES RESPONSIBLE FOR MAINTENANCE OF UTILITIES IN THE VICINITY OF JOB SITE.
9. ALL EXISTING UTILITIES AND IMPROVEMENTS ARE SHOWN IN THEIR APPROXIMATE LOCATIONS BASED UPON RECORD INFORMATION AVAILABLE TO THE ENGINEER AT THE TIME OF PREPARATION OF THESE PLANS. LOCATIONS MAY NOT HAVE BEEN VERIFIED IN THE FIELD AND NO GUARANTEE IS MADE AS TO THE ACCURACY OR COMPLETENESS OF THE INFORMATION SHOWN. THE CONTRACTOR SHALL NOTIFY UTILITY COMPANIES AT LEAST THREE (3) WORKING DAYS IN ADVANCE OF CONSTRUCTION TO FIELD LOCATE UTILITIES. CALL UNDERGROUND SERVICE ALERT (U.S.A.), AT 800-227-2600. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXISTENCE AND LOCATION OF THOSE UTILITIES SHOWN ON THESE PLANS OR INDICATED IN THE FIELD BY LOCATING SERVICES. ADDITIONAL COSTS INCURRED AS A RESULT OF CONTRACTOR'S FAILURE TO VERIFY LOCATIONS OF EXISTING UTILITIES PRIOR TO BEGINNING OF CONSTRUCTION IN THEIR VICINITY SHALL BE BORNE BY THE CONTRACTOR AND ASSUMED INCLUDED AND MERGED IN THE CONTRACT UNIT PRICE.
10. ALL EXISTING UTILITIES AND IMPROVEMENTS THAT BECOME DAMAGED DURING CONSTRUCTION MUST BE COMPLETELY RESTORED TO THE SATISFACTION OF THE CITY ENGINEER OR UTILITY AGENCY REPRESENTATIVE, AT THE CONTRACTOR'S SOLE EXPENSE.
11. ANY RELOCATION OF PUBLIC UTILITIES SHALL BE CONDUCTED IN ACCORDANCE WITH ANY AND ALL REQUIREMENTS OF THE UTILITY COMPANY REPRESENTATIVE INCLUDING FEES, BONDS, PERMITS AND WORKING CONDITIONS, ETC. THIS WORK SHALL BE DONE AT NO EXPENSE TO THE UTILITY COMPANY. THE OWNER SHALL PAY THE COST OF ALL SUCH RELOCATION WORK INCLUDING FEES, BONDS, PERMITS, ETC.
12. THE CONSTRUCTION OF ALL GRAVITY UNDERGROUND LINES (STORM DRAINS) SHALL BEGIN AT THE MOST DOWNSTREAM END, UNLESS OTHERWISE SPECIFICALLY APPROVED BY ENGINEER OR BY THE OWNER.
13. IF ARCHEOLOGICAL MATERIALS ARE UNCOVERED DURING GRADING, TRENCHING OR OTHER EXCAVATION, EARTHWORK WITHIN 50 FEET OF THESE MATERIALS SHALL BE STOPPED UNTIL A PROFESSIONAL ARCHEOLOGIST WHO IS CERTIFIED BY THE SOCIETY OF CALIFORNIA ARCHEAEOLOGY (SCA) AND/OR THE SOCIETY OF PROFESSIONAL ARCHEAEOLOGY (SOPA) HAS HAD AN OPPORTUNITY TO EVALUATE THE SIGNIFICANCE OF THE FIND AND SUGGEST APPROPRIATE MITIGATION MEASURES, IF THEY ARE DEEMED NECESSARY.
14. 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, IS NEITHER SPECIFIED NOR RECOMMENDED. ANY PARTY INSTALLING OR USING ANY PARTY 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.
15. THE CONTRACTOR MUST MEET AND IMPLEMENT ALL NPDES, SWPPP, AND EROSION CONTROL REQUIREMENTS IN EFFECT AT THE TIME OF CONSTRUCTION.
16. SHOULD IT APPEAR THAT THE WORK TO BE DONE OR ANY MATTER RELATIVE THERETO IS NOT SUFFICIENTLY DETAILED OR EXPLAINED ON THESE PLANS, THE CONTRACTOR SHALL CONTACT GATES & ASSOCIATES AT (925) 736-8176 FOR SUCH FURTHER EXPLANATIONS AS MAY BE NECESSARY.

## LAYOUT NOTES

1. CONTRACTOR SHALL VERIFY ALL UTILITIES, GRADES, EXISTING CONDITIONS AND DIMENSIONS IN THE FIELD PRIOR TO COMMENCING WORK. ALL DISCREPANCIES OR QUESTIONS SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT FOR RESOLUTION.
2. ALL WRITTEN DIMENSIONS SUPERCEDE ALL SCALED DISTANCES AND DIMENSIONS. DIMENSIONS SHOWN ARE FROM THE FACE OF THE BUILDING, WALL, BACK OF CURB, EDGE OF WALK, PROPERTY LINE, OR CENTERLINE OF COLUMN UNLESS OTHERWISE NOTED ON THE DRAWINGS.
3. ALL DIMENSIONS AT BUILDING ARE TO FACE OF BUILDING. ALL DIMENSIONS AT ROADWAY ARE TO FACE OF CURB.
4. ALL ANGLES ARE 45 DEGREE, 90 DEGREE, OR 135 DEGREE UNLESS OTHERWISE NOTED.
5. ALL CURVES AND ALL TRANSITIONS BETWEEN CURVES AND STRAIGHT EDGES SHALL BE SMOOTH.
6. ALL RETURN RADII AND CURB DATA ARE TO FACE OF CURB.
7. WHENEVER BOTTOM OF WALL (BW) ELEVATION IS GIVEN, IT IS FINISH PAVEMENT OR GRADE ELEVATION AT FACE OF WALL.
8. SCORE LINES IN SIDEWALKS SHALL BE SPACED TO EQUAL THE WIDTH OF THE WALKWAY, UNLESS OTHERWISE SHOWN. EXPANSION JOINTS IN SIDEWALKS SHALL BE 20' ON CENTER MAXIMUM.
9. EXPANSION JOINTS IN CONCRETE WALLS SHALL BE AT 40' O.C. MAXIMUM.
10. BUILDING LAYOUT AND LOCATION, SIDEWALK, CURB AND GUTTER, GRADING AND DRAINAGE IS BASED ON DRAWINGS PREPARED BY THE ARCHITECT AND THE CIVIL ENGINEER.
11. STATIONING HEREON IS ALONG CONSTRUCTION CENTERLINE UNLESS OTHERWISE SHOWN OR INDICATED.
12. ANY EXTRA CONSTRUCTION STAKING NECESSITATED SOLELY BY THE CONTRACTOR'S NEGLIGENCE WILL BE CHARGED TO THE CONTRACTOR ON A TIME AND EXPENSES BASIS AND PAID FOR BY THE CONTRACTOR.
13. SEE IRRIGATION DRAWINGS FOR GENERAL SYSTEM REQUIREMENTS AND FOR LOCATION OF IRRIGATION MAINLINE PIPING. SLEEVES TO ACCOMMODATE IRRIGATION PIPING, SIZED AS NEEDED, SHALL BE IN PLACE UNDER AND THROUGH SLABS AND WALLS, PRIOR TO POURING.
14. PROVIDE CONTINUOUS HEADERS AT THE EDGES OF ALL AC PAVING, SHRUB AREAS, LAWN AREAS, DECOMPOSED GRANITE WHERE IT IS NOT CONSTRAINED BY A CONCRETE PAVING OR MOW BAND.
15. ALL CONCRETE PAVEMENTS SHALL BE DOWELED INTO CURBS, SIDEWALKS, AND BUILDING FOUNDATIONS.
16. REFER TO GEOTECHNICAL REPORT FOR ADDITIONAL INFORMATION, SECTIONS, REINFORCEMENT, AND PREPARATION. IN CASE OF DISCREPANCY THE GEOTECHNICAL REPORT SHALL GOVERN.
17. ALL TYPICAL DETAILS SHALL APPLY UNLESS NOTED OTHERWISE.
18. ANY AND ALL WORK WITHIN CITY RIGHT OF WAY SHALL CONFORM TO ALL CITY STANDARD DETAILS AND SPECIFICATIONS.
19. CONCRETE FOOTINGS INSTALLED FOR ALL SITE FURNISHINGS, SPORTS EQUIPMENT, ETC.. IN DECORATIVE PAVEMENT, ASPHALT PAVING, DECOMPOSED GRANITE, CONCRETE PAVING, AND PLANTERS SHALL BE HELD BELOW GRADE.
20. ALL EXISTING ITEMS TO REMAIN SHALL BE PROTECTED AS REQUIRED. ANY DAMAGED ITEMS SHALL BE FULLY REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE TO THE FULL SATISFACTION OF THE OWNER.
21. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY COORDINATION WITH SUBCONTRACTORS AS REQUIRED TO ACCOMPLISH OPERATIONS.
22. ALL QUANTITIES AND PAY ITEMS ARE AND WILL BE BASED ON HORIZONTAL MEASUREMENTS.
23. ALL PATTERNS, LINE TYPES, AND SYMBOLS SHOWN WITHIN THE PLAN SET REFERENCE THE LAYOUT LEGEND AND ARE PART OF THE SCOPE OF WORK. CALLOUTS ARE SHOWN FOR CLARIFICATION OF WORK, BUT DO NOT INDICATE EVERY AND ALL INSTANCES OF SUCH WORK. THE CONTRACTOR SHALL REQUEST CLARIFICATION TO ANY ITEMS (INCLUDING BUT NOT LIMITED TO PAVING, WALLS, FINISHES, COLORS, FENCING, FOUNTAINS, POTS, AND SITE FURNITURE) NOT CLEARLY IDENTIFIED TO BE PART OF THE SCOPE OF WORK PRIOR TO BID.
24. THE CONTRACT DRAWINGS MUST BE ACCOMPANIED BY CONTRACT SPECIFICATIONS. THE CONTRACTOR MUST CONTACT THE LANDSCAPE ARCHITECT AT 925-736-8176 FOR SPECIFICATIONS IF NOT RECEIVED.
25. THE CONTRACTOR IS RESPONSIBLE FOR ALL WORK AND MATERIALS OF THE CONTRACT DOCUMENTS INCLUDING ALL WORK AND MATERIALS PROVIDED BY SUBCONTRACTORS. ALL QUALIFICATIONS OF THE CONTRACT DOCUMENTS INCLUDING ALL SPECIFIC EXCLUSIONS OF ANY WORK, DETAILS, MATERIALS, AND INCIDENTALS SHALL BE CONFIRMED AND ACCEPTED IN WRITING BY THE CONTRACTOR AND OWNER UPON FINALIZATION OF BIDS AND CONTRACT. THE LANDSCAPE ARCHITECT SHALL BE NOTIFIED OF ALL QUALIFICATIONS AND NOTIFICATIONS.

## Sheet List Table

Sheet Number	Sheet Title
L0.1	COVER SHEET
L0.2	LAYOUT NOTES AND LEGEND
L0.3	PLANTING NOTES, LEGEND AND LIST
L1.1	DEMOLITION PLAN
L1.2	LAYOUT PLAN
L1.3	CONCEPTUAL GRADING PLAN
L2.1	PLANTING PLAN
L3.1	IRRIGATION PLAN AND LEGEND
L3.2	IRRIGATION DETAIL
L4.1	CONSTRUCTION DETAIL
L4.2	CONSTRUCTION DETAILS
L4.3	CONSTRUCTION DETAILS

**GATES**  
**+ASSOCIATES**  
**LANDSCAPE ARCHITECTURE**  
**LAND PLANNING • URBAN DESIGN**  
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T 925.736.8176 www.dgates.com

## OAK KNOLL ELEMENTARY SCHOOL

MENLO PARK  
CALIFORNIA

ISSUE:	DESCRIPTION:	DATE:
1	BID SET	05/24/2019



PROJECT NUMBER: 5610  
DRAWN: JK  
CHECK: MM  
DATE: 05/24/2019  
SCALE: ----



COVER SHEET

L0.1



LAYOUT LEGEND

PLAY SURFACING

MFR: SURFACE AMERICA

COLOR A: 50% BLACK, 50% DARK GREY

COLOR B: 25% DARK GRAY, 75% SKY BLUE

COLOR C: 25% DARK GRAY, 75% BRIGHT GREEN

COLOR D: 20% BLACK, 80% BROWN

COLOR E: LIGHT GRAY

3

8

L4.1

L4.2

ARTIFICIAL TURF

4

5

L4.1

L4.1

42" ORNAMENTAL IRON FENCE

1,2,3

L4.2

SAIL SHADE STRUCTURE A & B  
MFR: USA SHADE  
MODEL: DSA PC MODEL, TRIANGLE  
DSA30125-16  
SIZE: 25'X25'X25'

DOUBLE TOWER WITH DOUBLE SLIDE

1

L4.3

PLAY AND LEARN COLLAGE

2

L4.3

FOREST BUG SPINNER

3

L4.3

SAND BOX TOTAL OF(4)  
MODEL: NAOMI HOME KIDS CEDAR SANDBOX  
W/2 BENCHES  
AVAILABLE FROM: [www.ojcommerce.com](http://www.ojcommerce.com)

STOP AND YIELD SIGN  
MFR: LANDSCAPE STRUCTURES  
INSTALL PER MANUFACTURE SPECIFICATIONS



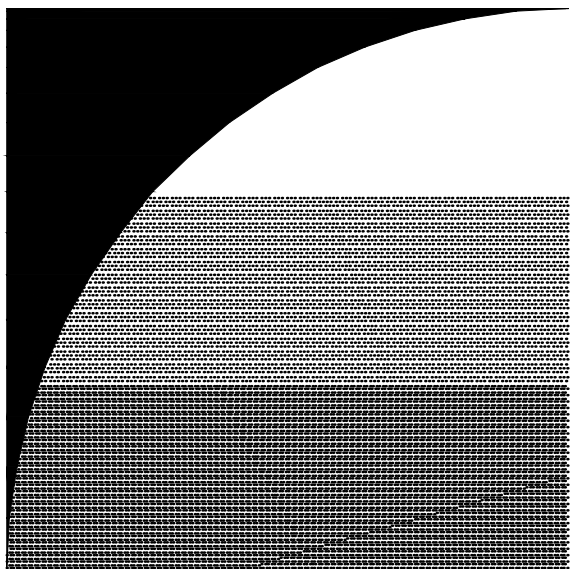
EJ	EXPANSION JOINT LOCATE AS SHOWN, AT ALL JOINTS BETWEEN PAVING & WALLS, AND AT ALL CHANGES IN PAVING MATERIAL.
	SCORELINE
T	TREAD
TBD	TO BE DETERMINED
SP	SPACING
◆	POINT OF BEGINNING
F.O.B.	FACE OF BUILDING
TYP.	TYPICAL
EQ.	EQUAL
CONT.	CONTINUOUS
S.C.D.	SEE CIVIL'S DRAWINGS
S.A.D.	SEE ARCHITECT'S DRAWINGS
S.S.D.	SEE STRUCTURAL'S DRAWINGS
SIM	SIMILAR
R	RADIUS - ALL RADII GIVEN FOR WALLS ARE DIMENSIONED TO OUTSIDE OF WALLS.
↶	ALIGN
CL	CENTER LINE
PL	PROPERTY LINE
EQ	EQUAL
PLA	PLANTING AREA
HDR	HEADER BOARD

GENERAL NOTES

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18. ANY AND ALL WORK WITHIN DISTRICT RIGHT OF WAY SHALL CONFORM TO ALL DISTRICT STANDARD DETAILS AND SPECIFICATIONS.
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24. THE CONTRACT DRAWNGS MUST BE ACCOMPANIED BY CONTRACT SPECIFICATIONS. THE CONTRACTOR MUST CONTACT THE DISTRICT PROJECT MANAGER AT 925-736-8176 FOR SPECIFICATIONS IF NOT RECEIVED.
25. SUBMITTALS AND SITE MOCKUPS OF ALL WORK SHALL BE REQUIRED PRIOR TO FINAL PLACEMENT INCLUDING BUT NOT LIMITED TO ALL WALLS, PAVEMENTS, COLORS, FINISHES, METAL WORK, FENCING, AND PAINTING FOR REVIEW AND APPROVAL BY THE DISTRICT PROJECT MANAGER. SEE SPECIFICATIONS.



GATES

+ASSOCIATES

LANDSCAPE ARCHITECTURE

LAND PLANNING • URBAN DESIGN

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T 925.736.8176 [www.dgates.com](http://www.dgates.com)

OAK KNOLL  
ELEMENTARY  
SCHOOL

MENLO PARK  
CALIFORNIA

ISSUE:	DESCRIPTION:	DATE:
1	BID SET	05/24/2019



PROJECT NUMBER:	5610
DRAWN:	JK
CHECK:	MM
DATE:	05/24/2019
SCALE:	



LAYOUT NOTES AND  
LEGEND

L0.2



PLANTING NOTES

GENERAL

1.

ALL WORK SHALL BE PERFORMED BY PERSONS FAMILIAR WITH PLANTING WORK AND UNDER THE SUPERVISION OF A QUALIFIED PLANTING FOREMAN.
2.

ALL QUANTITIES AND PLANT COUNTS ARE FOR THE CONVENIENCE OF THE CONTRACTOR. IN CASE OF DISCREPANCIES, THE PLAN SHALL GOVERN.
3.

THE DISTRICT PROJECT MANAGER RESERVES THE RIGHT TO MAKE SUBSTITUTIONS, ADDITIONS, AND DELETIONS IN THE PLANTING SCHEME AS THEY FEEL NECESSARY WHILE WORK IS IN PROGRESS. UPON APPROVAL BY THE OWNER. SUCH CHANGES ARE TO BE ACCOMPANIED BY EQUITABLE ADJUSTMENTS IN THE CONTRACT PRICE, WHEN NECESSARY.
4.

PLANT MATERIAL LOCATIONS SHOWN ARE DIAGRAMMATIC AND MAY BE SUBJECT TO CHANGE IN THE FIELD BY THE DISTRICT PROJECT MANAGER. PLANT LOCATIONS ARE TO BE ADJUSTED IN THE FIELD AS NECESSARY TO SCREEN UTILITIES, BUT SHALL NOT BLOCK WINDOWS, BLOCK SIGNS NOR IMPEDE ACCESS.
5.

THE DESIGN INTENT OF THE PLANTING PLAN IS TO ESTABLISH AN ATTRACTIVE MATURE LANDSCAPE APPEARANCE. FUTURE PLANT GROWTH WILL NECESSITATE TRIMMING, SHAPING, AND IN SOME CASE REMOVAL OF TREES AND SHRUBS AS AN ON-GOING MAINTENANCE PROCEDURE.
6.

ALL PLANTING AREA MUST BE IRRIGATED WITH AUTOMATIC IRRIGATION SYSTEM. IRRIGATION SYSTEM SHALL BE FULLY AUTOMATED AND OPERATIONAL WITH FULL COVERAGE PRIOR TO PLANTING.
7.

CONTRACTOR TO REVIEW ALL EXISTING, PROPOSED, & AS BUILT UTILITY PLANS PRIOR TO CONSTRUCTION. CONTRACTOR TO TAKE PRECAUTIONS IN EXCAVATION OF ALL TREE PLANTING PITS. CONTRACTOR TO NOTIFY DISTRICT PROJECT MANAGER OF ANY CONFLICTS FOUND DURING CONSTRUCTION.
8.

CONTRACTOR MUST REVIEW ALL PLANS PRIOR TO THE BEGINNING OF CONSTRUCTION AND MAINTAIN THE FOLLOWING CLEARANCES FOR ALL TREE PLANTINGS. CONTRACTOR TO TAKE PRECAUTION IN ALL EXCAVATION ACTIVITY. NOTIFY DISTRICT PROJECT MANAGER OF ANY CONFLICTS PRIOR TO INSTALLATION.

FIRE HYDRANTS AND PIVS: 3' MINIMUM

LIGHT POLES: 10' MINIMUM

UTILITIES: 3' MINIMUM

BUILDING ROOF EDGE: 5' MINIMUM
9.

CONTRACTOR TO PROVIDE AND ARRANGE FOR PLANT MATERIAL THRU CONTRACT GROW, PLANT BROKERS, OR DIRECT PURCHASE AS REQUIRED FOR THE FULL IMPLEMENTATION OF THE PROJECTS PLANTING PLAN. CONTRACTOR MUST SUBMIT WITHIN 30 DAYS AFTER AWARD OF A BID A DETAILED NURSERY LIST OF SECURED PLANT MATERIAL, CONTRACT GROW PLANT MATERIAL, AND ANY SUBSTITUTION REQUESTS. CONTRACTOR SHALL ARRANGE AND SECURE ALL PLANT MATERIAL WITHIN 30 DAYS OF BID. UPON DELIVERY, PLANT MATERIAL THAT DOES NOT MEET NURSERY STANDARDS, IS ROOTBOUND, OF POOR QUALITY & HEALTH, SUBSTANDARD SIZE, AND / OR IS NOT APPROVED BY THE DISTRICT PROJECT MANAGER SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. MATERIAL WHICH IS NOT SECURED AND IS UNAVAILABLE IN THE SIZE SPECIFIED SHALL BE UP-SIZED, IF AVAILABLE. ALL REPLACEMENT MATERIAL, SUBSTITUTIONS OR UP-SIZED PLANT MATERIAL MUST BE PROVIDED AS REQUIRED FOR THE FULL IMPLEMENTATION OF THE PLANTING PLAN AT NO ADDITIONAL COST TO THE CONTRACT AND OWNER.
10.

PROCUREMENT OF PLANT MATERIAL SHALL NOT BE LIMITED TO NORTHERN CALIFORNIA. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRUCKING, INSPECTIONS, AND INCIDENTALS FOR PROVIDING PLANT MATERIAL FROM SOURCES OUT OF STATE AS REQUIRED BY THE PROJECT PLANTING PLAN.

EXISTING PLANT MATERIAL

1.

ALL EXISTING PLANT MATERIAL, TREES, OR LAWN TO REMAIN MUST BE PROTECTED AND MAINTAINED IN PLACE BY THE CONTRACTOR.
2.

ANY DAMAGED MATERIAL MUST BE FULLY REPLACED TO MATCH EXISTING BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CONTRACT AND OWNER.
3.

CONTRACTOR MUST MAINTAIN ANY EXISTING IRRIGATION SYSTEMS OR PROVIDE TEMPORARY IRRIGATION SYSTEMS AS REQUIRED TO ALL EXISTING PLANTING AREAS TO REMAIN.

SOILS

1.

THE CONTRACTOR MUST PROVIDE AN AGRICULTURAL SUITABILITIES ANALYSIS FOR ALL SOILS EXISTING AND IMPORTED INCLUDING BUT NOT LIMITED TO: EXISTING ON-SITE SOILS, IMPORTED TOPSOIL, LIME TREATED AREAS, AND ALL AMMENDMENTS. RECOMMENDATIONS FOR AMENDMENTS CONTAINED IN THIS ANALYSIS ARE TO BE CARRIED OUT BEFORE PLANTING OCCURS. PROVIDE 2 TESTS AT 6" DEPTH AND 2 TESTS AT 24" DEPTH THROUGHOUT THE SITE. PROVIDE ADDITIONAL TESTING (ONE 6" AND ONE 24" DEPTH TEST PER 25,000 SF FOR AREAS WHICH WERE LIME TREATED). EACH TEST SAMPLE SHALL CONTAIN 3 REPRESENTATIVE SOIL SAMPLES. ALL LIME TREATED PLANTING AREAS SHALL BE REMOVED AND REPLACED WITH IMPORT TOP SOIL AT NO COST TO THE OWNER. ALL TESTING SHALL BE PAID FOR BY THE CONTRACTOR. FOR BID PURPOSES AMEND ALL SOIL WITH 6 YARDS OMRI COMPOST 50LBS GYPSUM AND 100LBS OF GRO-POWER PLUS 5-3-1 W/ M PER 1000SF. CONTRACTOR TO SUBMIT ALL DELIVERY TICKETS FOR COMPOST AND FERTILIZERS FOR VERIFICATION.
2.

ALL SOILS IMPORTED ONTO THE SITE FOR ANY PURPOSE SUCH AS GRADING, NON EXPANSIVE FILL, FILL, OR FOR ANY GENERAL PURPOSE MUST BE TESTED FOR PLANT SUITABILITY PRIOR TO PLACEMENT. ALL IMPORT SOILS SHALL BE NON-DETRIMENTAL TO PLANT MATERIAL AND SOILS ANALYSIS SUBMITTED TO THE DISTRICT PROJECT MANAGER FOR REVIEW AND APPROVAL. PROVIDE 1 TEST PER 500 CY OF MATERIAL.
3.

SOIL IS TO BE AMENDED, AT THE RATE INDICATED BY THE SOIL ANALYSIS, TO BRING THE SOIL ORGANIC MATTER CONTENT TO A MINIMUM OF 3.5% BY DRY WEIGHT, AND A MINIMUM OF 2" OF QUALITY RECYCLED COMPOST, ON ALL PLANTING AREAS.
4.

ALL PLANTERS IN AREAS WHICH HAVE BEEN COMPACTED, SUCH AS ADJACENT TO BUILDINGS AND IN PARKING LOTS, SHALL BE CROSS RIPPED TO THE FOLLOWING DEPTHS: PLANTERS LESS THAN THREE (3) FEET WIDE SHALL HAVE COMPACTION RELIEVED TO A MINIMUM DEPTH OF TWENTY-FOUR (24) INCHES BELOW SUBGRADE. PLANTERS THREE TO TEN (3-10) FEET WIDE MUST HAVE COMPACTION RELIEVED TO A MINIMUM DEPTH OF 18" BELOW SUBGRADE, PLANTERS MORE THAN 10' WIDE SHALL HAVE COMPACTION RELIEVED TO A MINIMUM DEPTH OF 12" BELOW SUBGRADE. AREAS SHALL BE PROTECTED AFTER DECOMPACTION.
5.

CONTRACTOR SHALL PERFORM A PERCOLATION TEST AT THE BEGINNING OF CONSTRUCTION AT 1 LOCATION PER ACRE (MAX OF 4) TO DETERMINE THE DRAINAGE CAPADISTRICT OF THE EXISTING SITE SOIL FOR TREE HEALTH. NOTIFY THE DISTRICT PROJECT MANAGER IF DRAINAGE IS LESS THAN 2" PER HOUR.

TREES

1.

ALL TREES SHALL BE STANDARDS UNLESS SPECIFICALLY NOTED.
2.

ALL TREES ARE TO BE STAKED AS SHOWN ON THE TREE STAKING/GUYING DIAGRAMS. BRANCHING HEIGHT OF TREES SHALL BE A 6"-0" MINIMUM ABOVE FINISH GRADE. ALL TREES IN A FORMAL GROUP PLANTING MUST BE MATCHING IN SIZE AND SHAPE. ALL STREET TREES TO BE INSTALLED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE OWNER. DISTRICT PROJECT MANAGER SHALL BE CONSULTED REGARDING ORIENTATION OF TREES PRIOR TO PLANTING AND/OR BACKFILLING.
3.

PLANT TREES 3'-0" MINIMUM FROM FACE OF CURB AT PARKING, AND FROM EDGES OF PAVNG. ALL TREES WITHIN 5' OF PAVING AREAS AND BUILDINGS MUST HAVE ROOT BARRIERS INSTALLED. SEE ROOT BARRIER DETAIL. DEEP ROOT BARRIER MODEL NO. UB.24.2. (415) 344-1464. INSTALL PER MANUFACTURER'S SPECIFICATIONS. WHERE WATER BARRIERS AND ROOT BARRIERS ARE REQUIRED, USE CENTURY PRODUCTS DUAL PURPOSE WATER/ ROOT BARRIER CR-PE24-20, (714)632-7083, S.C.D. FOR LOCATIONS OF WATER BARRIER.

4.

PROVIDE 4" BERM AROUND TREE FOR WATER BASIN. SEE TREE STAKING DETAIL. BERM TO BE REMOVED IN LAWN AREA AFTER INITIAL MAINTENANCE PERIOD. MULCH TREE WELL WITH 3" LAYER OF RECYCLED CHIPPED MULCH. KEEP MULCH AWAY FROM TREE TRUNK. HOLD LAWN AND HYDROSEED 2' CLEAR FROM TRUNKS, TYP.
5.

TREES MUST HAVE AN UNCUT LEADER THAT HAS A UNIFORM TAPER FROM BASE TO TIP. TREES MUST MEET AT LEAST NORMAL CALIPER AND HEIGHT FOR CONTAINER SIZE. OVERGROWN OR ROOT BOUND TREES ARE NOT ACCEPTABLE.

ACCESSORIES

1.

ALL PLANTING NOT BOUNDED BY CONCRETE OR A HARDSCAPE EDGE SHALL BE COMPLETELY SURROUNDED BY HEADERS. ALL ASPHALT AND DECOMPOSED GRANITE AREAS TO BE COMPLETELY SURROUNDED BY HEADERS OR ADJACENT CONCRETE WORK.
2.

ALL PLANTING AREAS MUST BE TOP-DRESSED WITH 3" LAYER OF RECYCLED CHIPPED MULCH. COLOR: BROWN. SUBMIT SAMPLE TO DISTRICT PROJECT MANAGER FOR APPROVAL PRIOR TO ORDERING.
3.

THE LANDSCAPE CONTRACTOR SHALL AS A PART OF THIS BID PROVIDE FOR A PLANTING ALLOWANCE FOR THE AMOUNT OF \$3,000.00 (THREE THOUSAND DOLLARS), TO BE USED FOR SUPPLYING AND INSTALLING ADDITIONAL PLANT MATERIAL AS DIRECTED BY THE DISTRICT PROJECT MANAGER AND APPROVED BY THE OWNER IN WRITING. THE UNUSED PORTION OF THE ALLOWANCE SHALL BE RETURNED TO THE OWNER AT THE BEGINNING OF THE MAINTENANCE PERIOD.
4.

SEE SPECIFICATIONS FOR ALL FERTILIZER REQUIREMENTS

SUBMITTALS

1.

CONTRACTOR MUST SUBMIT ALL TESTS, PRODUCTS, ACCESSORIES, CUT SHEETS OF ALL ITEMS SPECIFIED FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.
2.

ALL PLANT MATERIAL MUST BE REVIEWED AND APPROVED BY THE DISTRICT PROJECT MANAGER PRIOR TO DELIVERY. CONTRACTOR SHALL SUBMIT PHOTOS OF ALL SHRUBS, GROUND COVERS, VINES, AND TREES FOR PRELIMINARY REVIEW AND APPROVAL.
3.

PLANT MATERIAL NOT APPROVED BY THE DISTRICT PROJECT MANAGER MAY BE SUBJECT TO REMOVAL AND REPLACEMENT WITH APPROVED PLANT MATERIAL AT NO ADDITIONAL COST TO THE CONTRACT OR OWNER.

MUNICIPAL REQUIREMENTS

1.

ALL PLANT MATERIAL TO BE INSPECTED & APPROVED BY DISTRICT REPRESENTATIVE AND DISTRICT PROJECT MANAGER PRIOR TO INSTALLATION.
2.

CONTACT THE PROJECT DISTRICT PROJECT MANAGER FOR FINAL INSPECTION OF LANDSCAPE AND IRRIGATION. PRIOR TO RELEASE OF BUILDING FOR OCCUPANCY, THE PROJECT DISTRICT PROJECT MANAGER WILL SUBMIT A LETTER TO THE DISTRICT CERTIFYING THE PLANTING AND IRRIGATION HAS BEEN INSTALLED IN CONFORMANCE WITH THE APPROVED PLANTING AND IRRIGATION PLANS; SUBJECT TO THE REVIEW AND APPROVAL OF THE DISTRICT DISTRICT PROJECT MANAGER. SECURITIES IN LIEU OF INSTALLATION WILL NOT BE ACCEPTED.
3.

DURING THE INSTALLATION OF LANDSCAPING AND INSTALLATION AND PRIOR TO THE ISSUANCE OF A BUILDING OCCUPANCY PERMIT, THE DISTRICT PROJECT MANAGER MUST INSPECT AND MONITOR THE INSTALLATION OF MATERIALS TO VERIFY CONFORMANCE TO THESE PLANS. ONCE APPROVED, THE DISTRICT PROJECT MANAGER SHALL PROVIDE A WRITTEN LETTER TO DEPARTMENT OF PLANNING AND DEVELOPMENT STATING COMPLIANCE WITH THE APPROVED PLANS.

ABBREVIATIONS

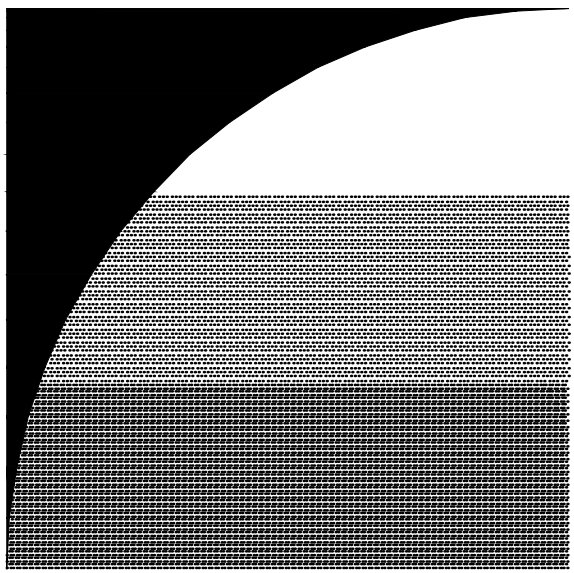
EX.	EXISTING
PA	PLANTING AREA
S.A.D.	SEE ARCHITECTURE DRAWINGS
S.C.D.	SEE CIVIL DRAWINGS
TYP.	TYPICAL

PLANT SCHEDULE

SHRUBS	BOTANICAL NAME	COMMON NAME	SIZE	SPACING
DV	DIETES GRANDIFLORA 'VARIEGATA'	STRIPED FORTNIGHT LILY	5 GAL	36' o.c.
LB	LOMANDRA LONGIFOLIA 'BREEZE'	DWARF MAT RUSH	5 GAL	36' o.c.

PLANTING LEGEND

XX	SHRUB NAME	1,2
XX	QUANTITY	L4.1
XXX	TREE NAME	3,4
XX	QUANTITY	L4.1



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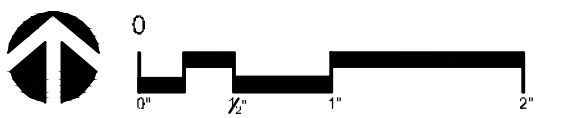
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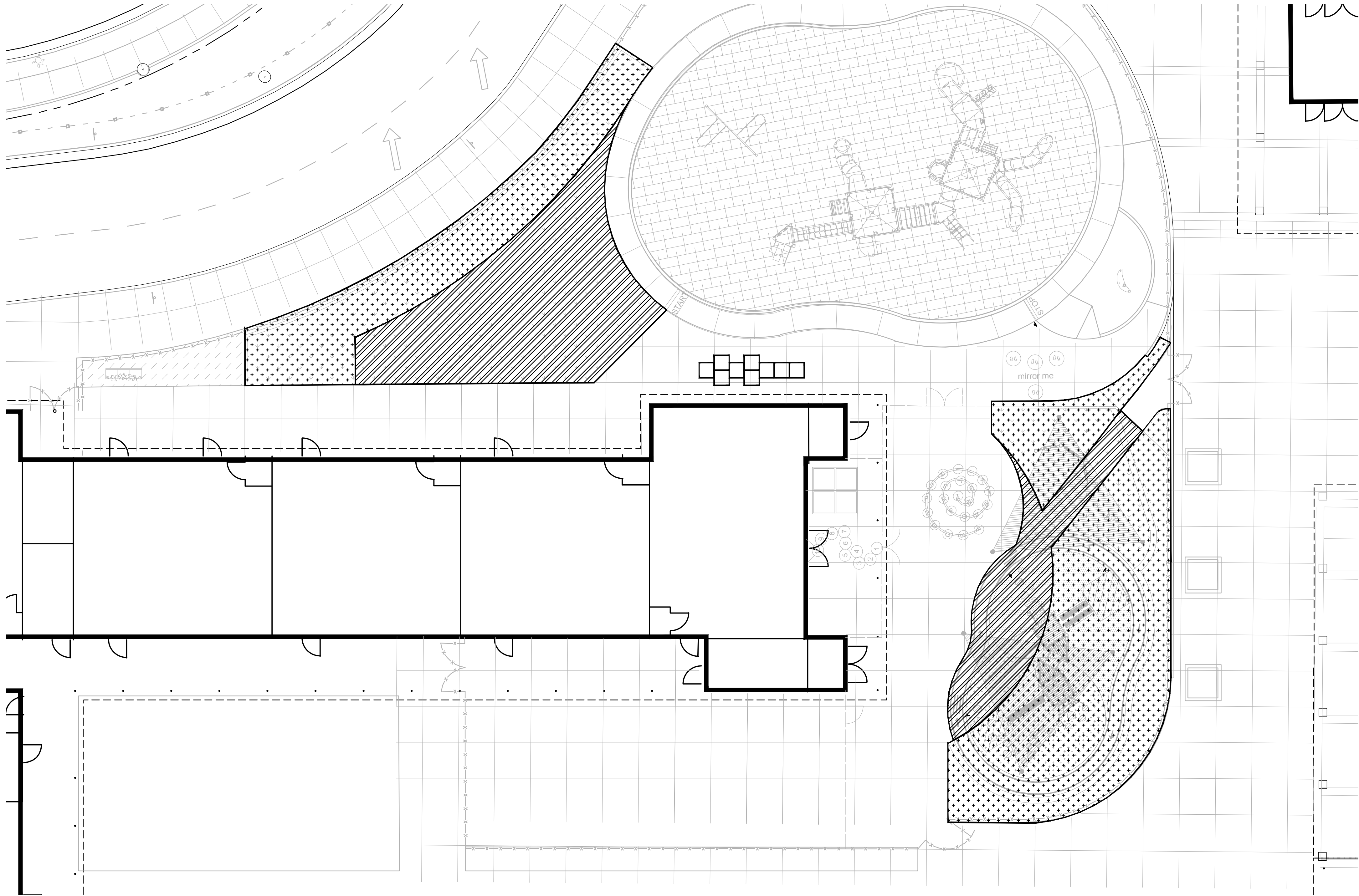


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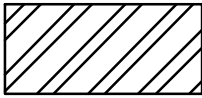


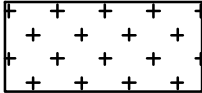
PLANTING NOTES,  
LEGEND AND LIST

L0.3



DEMOLITION LEGEND

- 

DEMOLISH AND REMOVE CONCRETE INCLUDING ANY ASSOCIATED BASE/ROCK AND REBAR. STABILIZE THE EXISTING SUBGRADE,
- 

CLEAR AND GRUB EXISTING LANDSCAPE AREA SO NO ORGANICS ARE STILL PRESENT

DEMOLITION NOTES

1. CONTRACTOR TO DEMOLISH AND REMOVE ALL IRRIGATION IN LANDSCAPE AREAS WITHIN THE LIMIT OF WORK. IF ANY IRRIGATION LINES OR MAINS ARE IN THE LIMIT OF WORK OR ARE DAMAGED THAT SERVE LANDSCAPE TO REMAIN, CONTRACTOR TO RECONNECT OR RELOCATE AT NO ADDITIONAL COST TO OWNER

2. ALL UNDERGROUND UTILITIES LANDSCAPE FEATURES, AND HARDSCAPE FEATURES NOT SHOWN TO BE REMOVED THAT ARE IMPACTED OR DAMAGED BY THE CONTRACTOR OR THEIR SUB-CONTRACTOR SHALL BE REMOVED AND REPLACED IN KIND. ITEMS MAY INCLUDE, BUT NOT LIMITED TO, UNDERGROUND UTILITY AND IRRIGATION LINES, CURB, SIDEWALK, PAVEMENT, FENCING, PAVEMENT MARKINGS, PLANTING AND LANDSCAPING.

3. PROTECT ALL EXISTING UTILITIES IN PLACE UNLESS OTHERWISE NOTES, REPLACE ANY DAMAGED UTILITY TO REMAIN TO KEEP OPERABLE DURING CONSTRUCTION.

4. THIS DEMOLITION PLAN IS NOT A COMPLETE INVENTORY OF UTILITIES OR STRUCTURES. CONTRACTOR SHALL CONTACT ENGINEER IF ANY UNKNOWN OR UNEXPECTED UTILITIES OR OTHER STRUCTURES ARE FOUND. THE CONTRACTOR IS RESPONSIBLE FOR ALL DEMOLITION NECESSARY TO PREPARE SITE FOR DEVELOPMENT.
5. ALL UTILITY DEMOLITION TO BE DISCONNECTED AND CAPPED WHERE SHOWN ON THE PLAN PER UTILITY OWNERS SPECIFICATIONS AND STANDARDS.

6. CONTRACTOR IS TO COMPLY WITH ALL GENERAL AND STATE REQUIREMENTS INVOLVING THE REMOVAL AND DISPOSAL OF HAZARDOUS MATERIALS.

7. CONTRACTOR'S BID IS TO INCLUDE ALL VISIBLE SURFACE AND ALL SUBSURFACE FEATURES IDENTIFIED TO BE REMOVED OR ABANDONED IN THESE DOCUMENTS.

8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR A SITE INSPECTIONS TO FULLY ACKNOWLEDGE THE EXTEND OF THE DEMOLITION WORK.

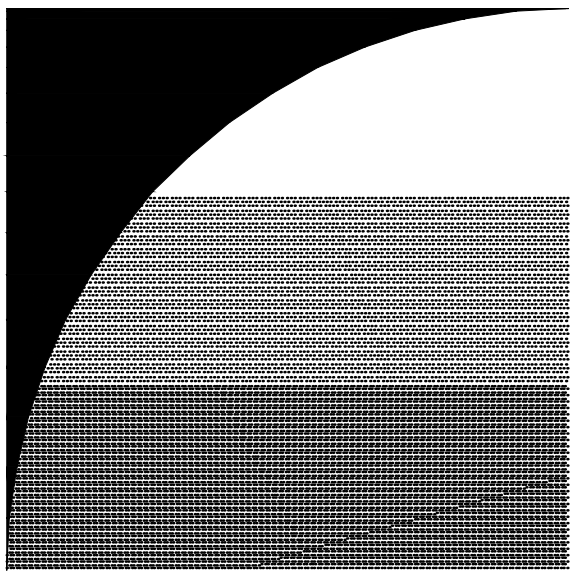
9. BACKFILL ALL DEPRESSIONS AND TRENCHES FROM DEMOLITION.

10. REMOVAL OF LANDSCAPING SHALL INCLUDE ROOTS AND ORGANIC MATERIALS

11. THE CONTRACTOR SHALL MAINTAIN ALL SAFETY DEVICES, AND SHALL BE RESPONSIBLE FOR CONFORMANCE TO ALL LOCAL, STATE AND FEDERAL SAFETY AND HEALTH STANDARDS LAWS AND REGULATIONS.
12. THE CONTRACTOR SHALL PROTECT FROM DAMAGE ALL EXISTING IMPROVEMENTS FACILITIES AND STRUCTURES WHICH ARE TO REMAIN. ANY ITEMS DAMAGED BY THE CONTRACTOR OF THEIR AGENTS OR ANY ITEMS REMOVED FOR HIS USE SHALL BE REPLACED IN EQUAL OR BETTER CONDITION AS APPROVED BY OWNER.

13. THIS PLAN IS NOT INTENDED TO BE A COMPLETE CATALOGUE OF ALL EXISTING STRUCTURES AND UTILITIES. THIS PLAN INTENDS TO DISCLOSE GENERAL INFORMATION KNOWN BY THE LANDSCAPE ARCHITECT AND TO SHOW THE LIMITS OF THE AREA WHERE WORK WILL BE PERFORMED. THIS PLAN SHOWS EXISTING FEATURES TAKEN FROM AS BUILD PLANS. THIS PLAN MAY OR MAY NOT ACCURATELY REFLECT THE TYPE OR EXTENT OF THE ITEMS TO BE ENCOUNTERED AS THEY ACTUALLY EXIST. WHERE EXISTING FEATURE ARE NOT SHOWN, IT IS NOT IMPLIED THAT THEY ARE NOT TO BE DEMOLISHED OR RELOCATED. THE CONTRACTOR SHALL PERFORM A THROUGH FILED INVESTIGATION AND REVIEW OF THE SITE WITHIN THE LIMIT OF WORK SHOWN IN THIS PLAN SET TO DETERMINATE THE TYPE, QUANTITY AND EXTENT OD ANY AND ALL ITEMS. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR DETERMINING THE EXTENT OF EXISTING STRUCTURES AND UTILITIES AND QUANTITY OF WORK INVOLVED IN REMOVING THESE ITEMS FROM THE SITE
14. ALL UTILITY SHUT DOWNS ARE TO BE AVOIDED. IF ANY DOWNS ARE NECESSARY CONTRACTOR TO COORDINATE DOWN WITH UTILITY OWNER WITH 48 HOUR MINIMUM NOTICE.

15. ALL EXISTING STORM DRAIN, SANITARY SEWER AND WATER MAINS THAT SERVE EXISTING BUILDINGS MUST REMAIN OPERABLE DURING CONSTRUCTION. CONTRACTOR TO SET UP TEMPORARY SERVICE OR PUMPS AS NECESSARY TO ENSURE UNINTERRUPTED SERVICE.



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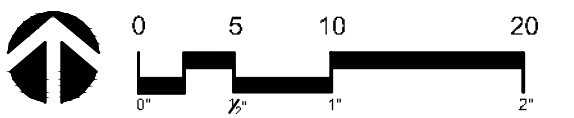
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ELEMENTARY  
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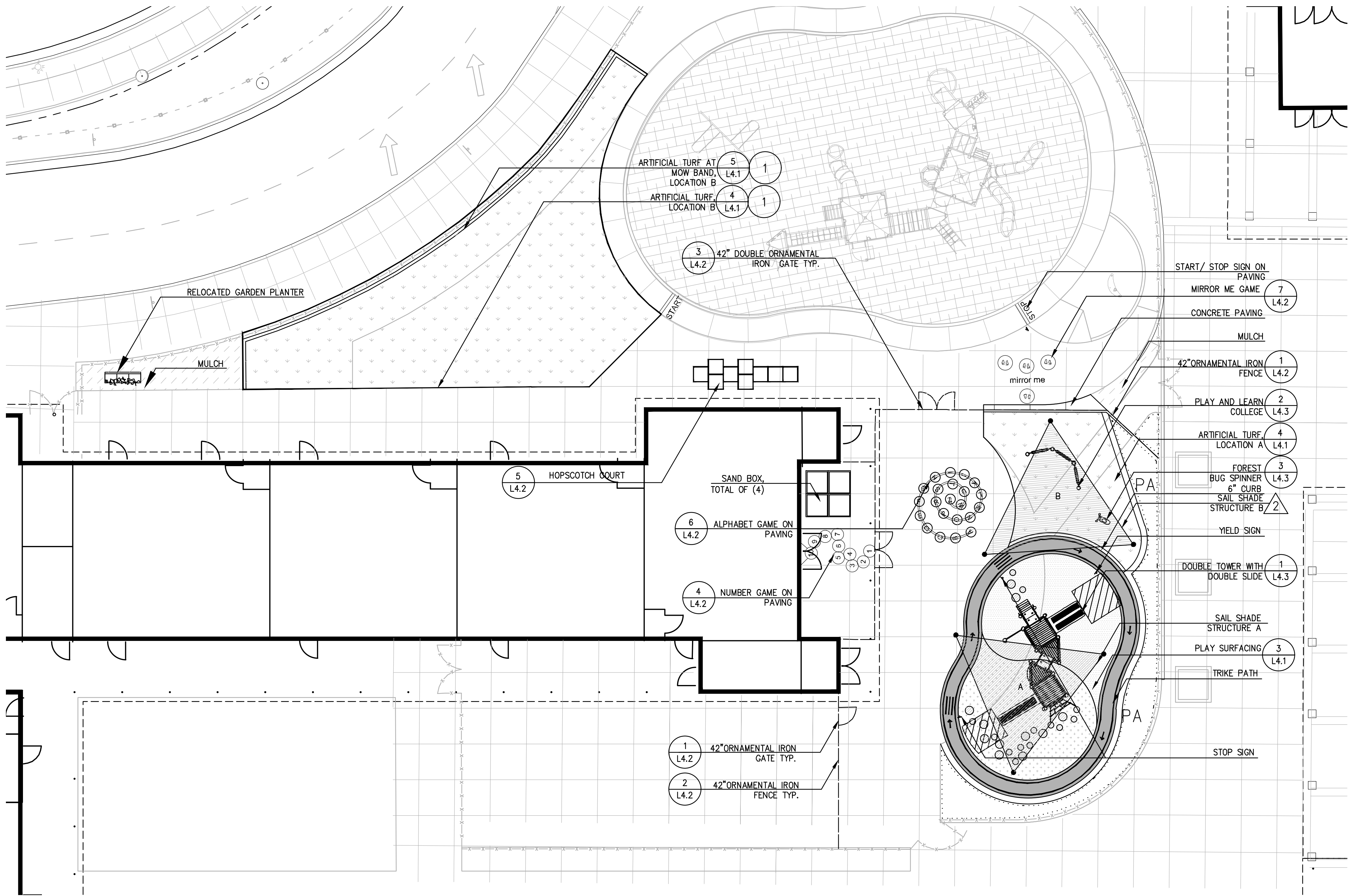
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DEMOLITION PLAN

L1.1





ALTERNATES

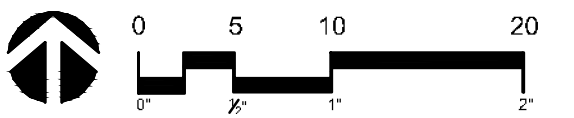
- 1 ALTERNATE 1. DEDUCT ARTIFICIAL TURF (LOCATION B) AND REPLACE WITH SOD
- 2 ALTERNATE 2. ADD SAIL SHADE STRUCTURE B

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CALIFORNIA

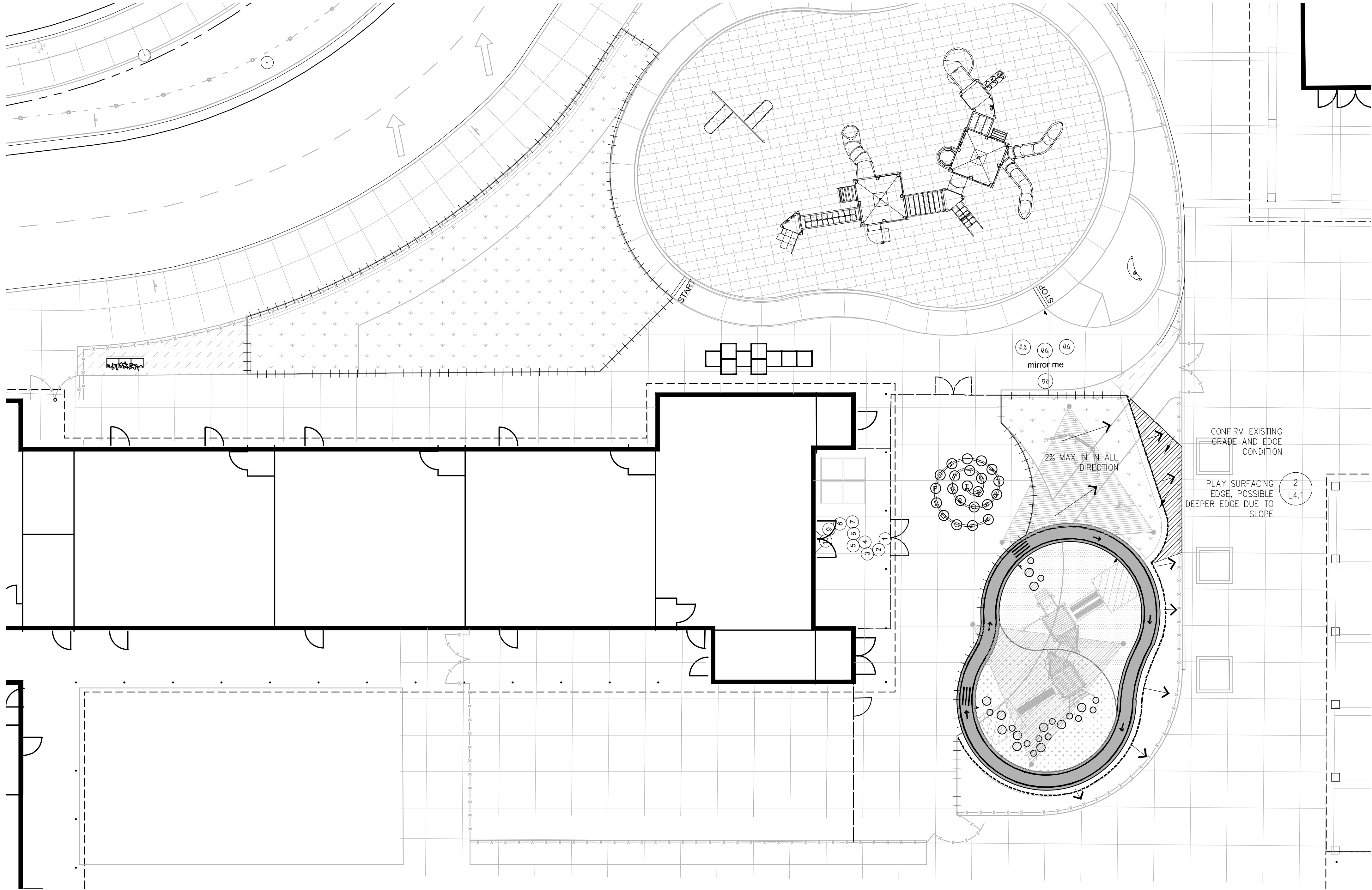
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LAYOUT PLAN



LEGEND

++++ CONFORM TO EXISTING EDGE

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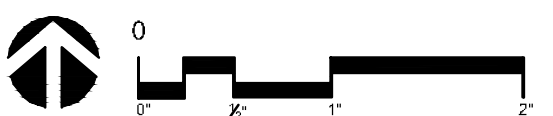
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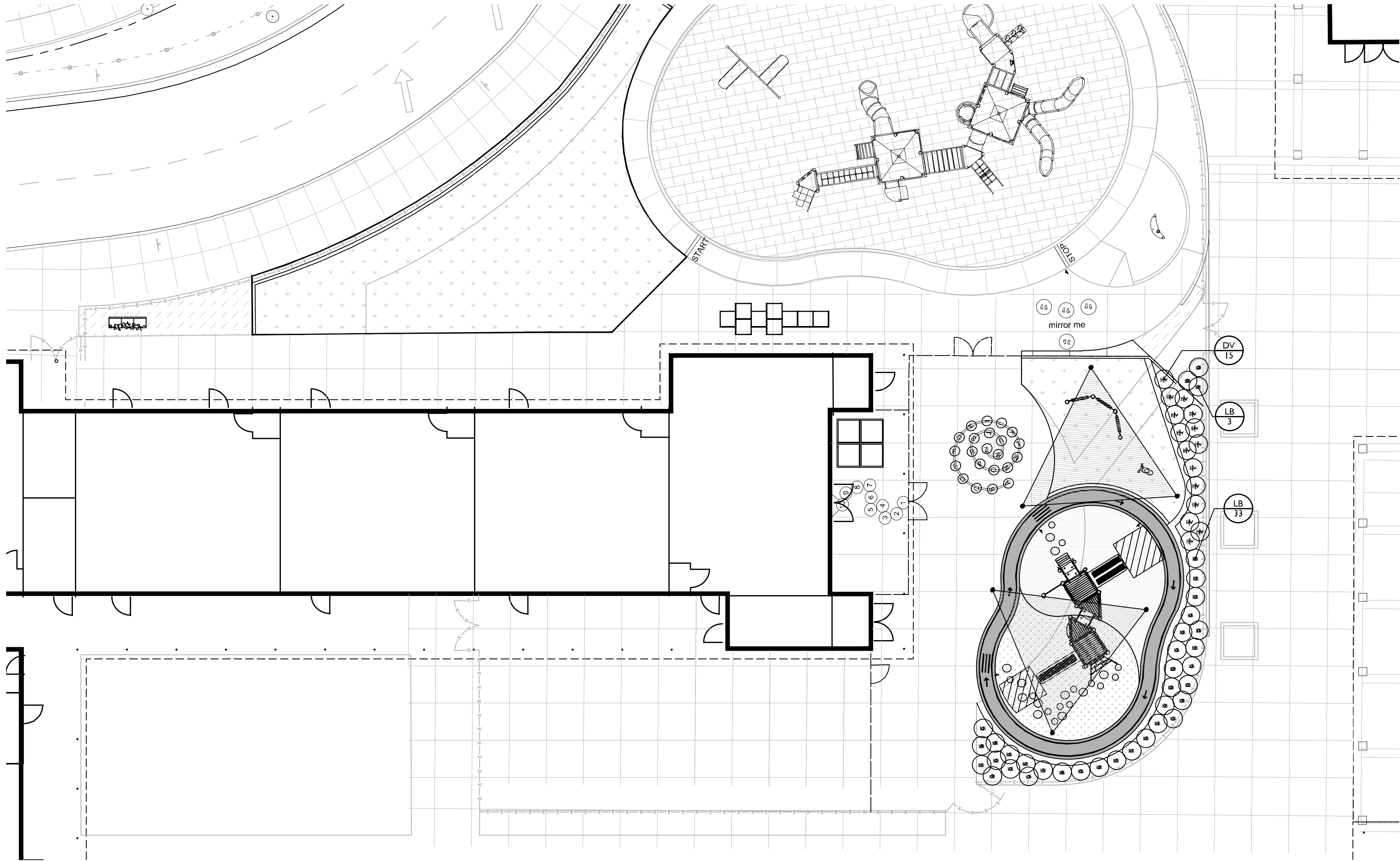


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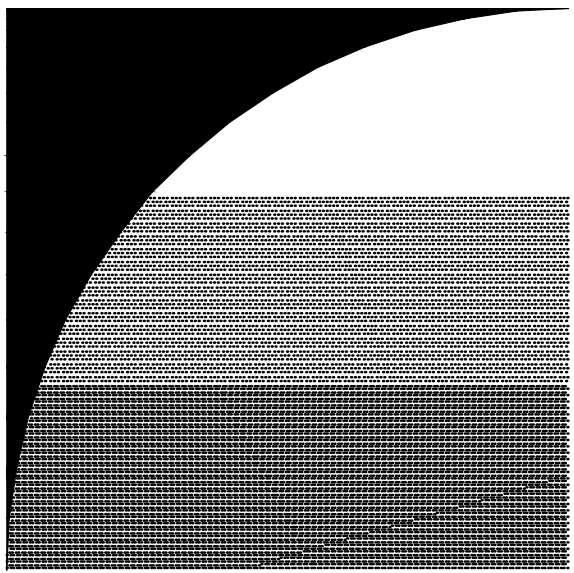
CONCEPTUAL GRADING  
PLAN

**L1.3**



PLANT SCHEDULE

SHRUBS	BOTANICAL NAME	COMMON NAME	SIZE	SPACING
DV	DIETES GRANDIFLORA 'VARIEGATA'	STRIPED FORTNIGHT LILY	5 GAL	36" o.c.
LB	LOMANDRA LONGIFOLIA 'BREEZE'	DWARF MAT RUSH	5 GAL	36" o.c.



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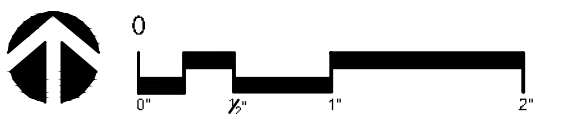
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ELEMENTARY  
SCHOOL

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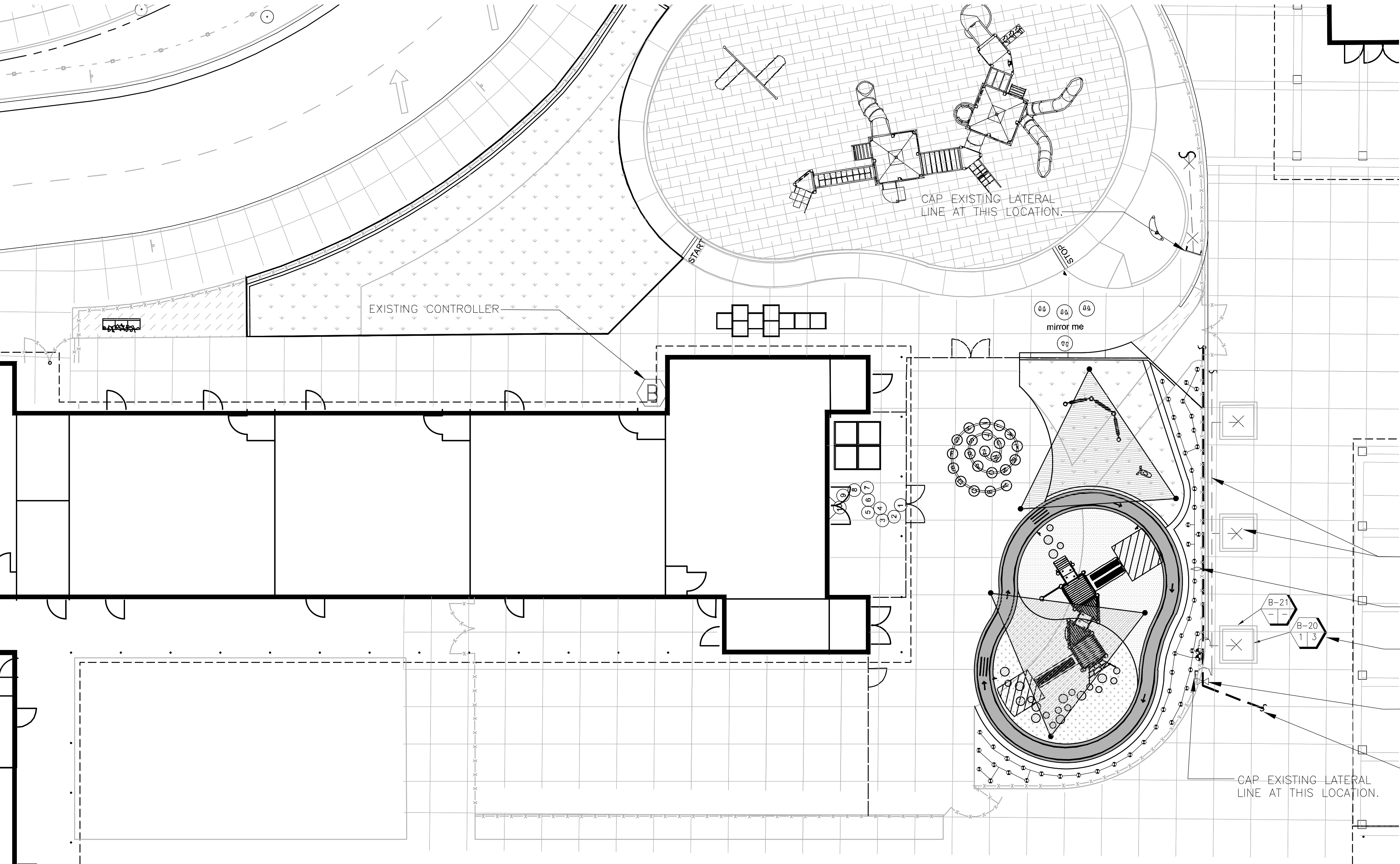
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PLANTING PLAN

L2.1





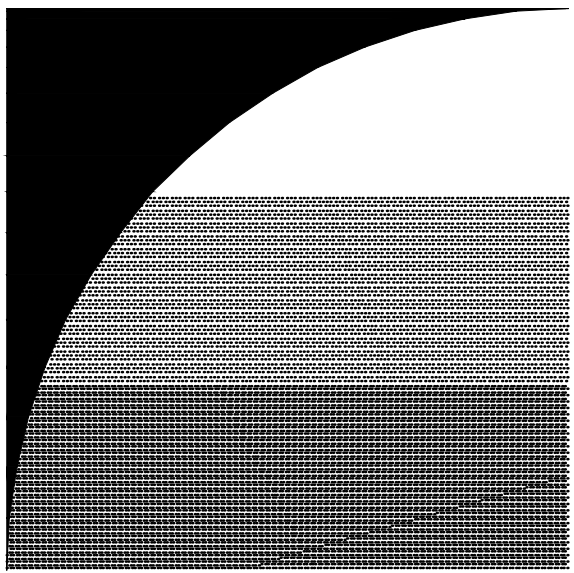
- NOTES:
- ONE BUBBLER SYMBOL IS SHOWN AT TREES FOR GRAPHIC CLARITY ONLY. INSTALL MINIMUM TWO BUBBLERS AT EACH TREE. INSTALL REQUIRED NUMBER OF BUBBLERS AS DETAILED.
  - IRRIGATION EQUIPMENT MAY BE SHOWN WITHIN HARDSCAPE FOR GRAPHIC CLARITY ONLY. INSTALL ALL IRRIGATION EQUIPMENT WITHIN PLANTED AREAS. IRRIGATION PIPE AND WIRE CROSSING BENEATH HARDSCAPE SURFACES SHALL BE CONTAINED WITHIN SLEEVING OR SCHEDULE 40 PVC CONDUIT. SLEEVING SIZE SHALL BE A MINIMUM OF TWO TIMES THE AGGREGATE DIAMETER OF ALL PIPES CONTAINED WITH SLEEVE. PROVIDE VERTICAL SWEEP FOR ALL ELECTRICAL CONDUIT ON EACH SIDE OF HARDSCAPE AND TERMINATE ENDS AT 12" MINIMUM DEPTH AND 12" FROM HARDSCAPE SURFACE.
  - UNSIZE LATERAL LINE PIPING LOCATED DOWN STREAM OF 1" PIPING SHALL BE 3/4" IN SIZE (TYPICAL).
  - SIZING OF LATERAL PIPE SHALL BE AS FOLLOWS:
- |       |           |
|-------|-----------|
| 0.75" | 0-6 GPM   |
| 1"    | 7-12 GPM  |
| 1.25" | 21-32 GPM |

- EXISTING LATERAL AND BUBBLERS TO REMAIN SERVING EXISTING TREES AS SHOWN (TYPICAL).
- QUICK COUPLER TO REMAIN.
- EXISTING REMOTE CONTROL VALVE TO BE REUSE TO SERVICE EXISTING AND NEW IRRIGATION.
- EXISTING GATE VALVE.
- EXISTING MAIN LINE TO REMAIN SERVING EXISTING SYSTEM.

IRRIGATION LEGEND

SYMBOL	MODEL NUMBER	DESCRIPTION	NOZZLE GPM	OPERATING PSI	OPERATING RADIUS (FEET)
	DB-04-PC	TORO BUBBLER (SHRUB) 1 PER SHRUB	0.066	30	TRICKLE
	-	EXISTING REMOTE CONTROL VALVE TO REMAIN			
	-	EXISTING QUICK COUPLER			
	-	EXISTING TREE BUBBLER AND SPRINKLER			
	-	EXISTING GATE VALVE			
	-	EXISTING CONTROLLER			
		CONTROLLER AND STATION NUMBER FLOW (GPM) REMOTE CONTROL VALVE SIZE (IN INCHES)			
		EXISTING MAIN LINE			
		EXISTING LATERAL LINE			
		LATERAL LINE: 3/4" AND LARGER: 1120-SCHEDULE 40 PVC PLASTIC PIPE WITH SCHEDULE 40 PVC SOLVENT WELD FITTINGS. 12" COVER.			

Irrigation Consultant:  
Russell D. Mitchell Associates, Inc.  
2760 Camino Diablo  
Walnut Creek, CA 94597  
tel 925.939.3985 ♦ fax 925.932.5671  
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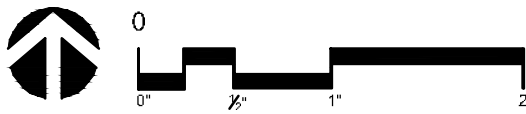
OAK KNOLL  
ELEMENTARY  
SCHOOL

MENLO PARK  
CALIFORNIA

ISSUE:	DESCRIPTION:	DATE:
1	BID SET	05/24/2019



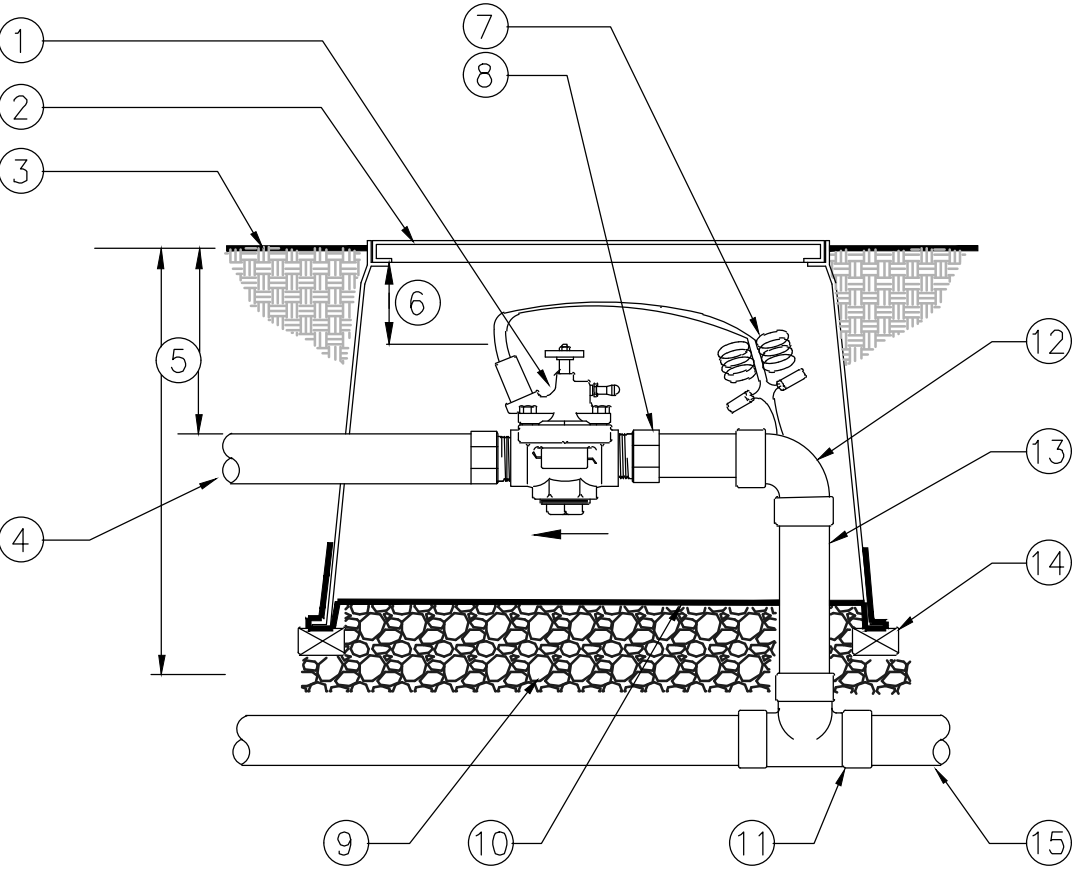
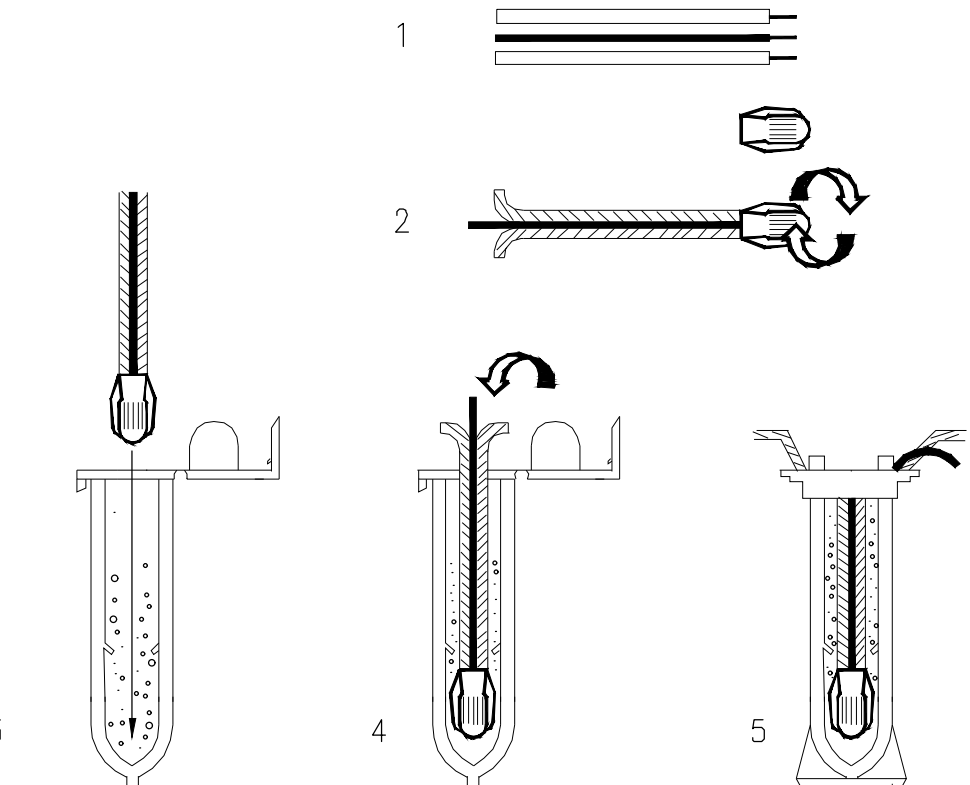
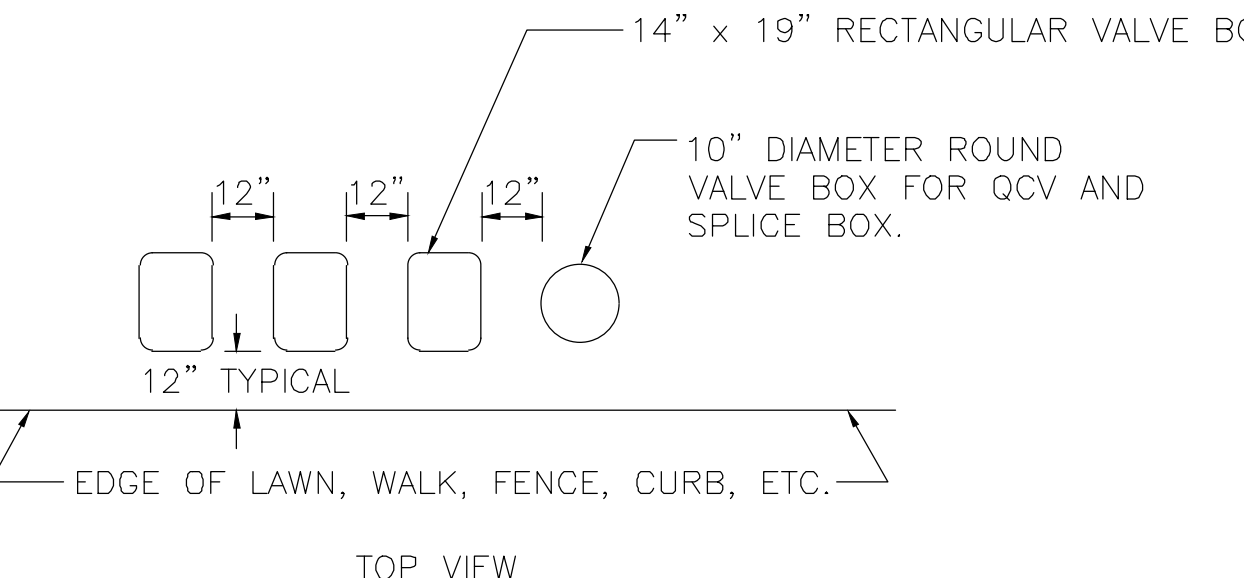
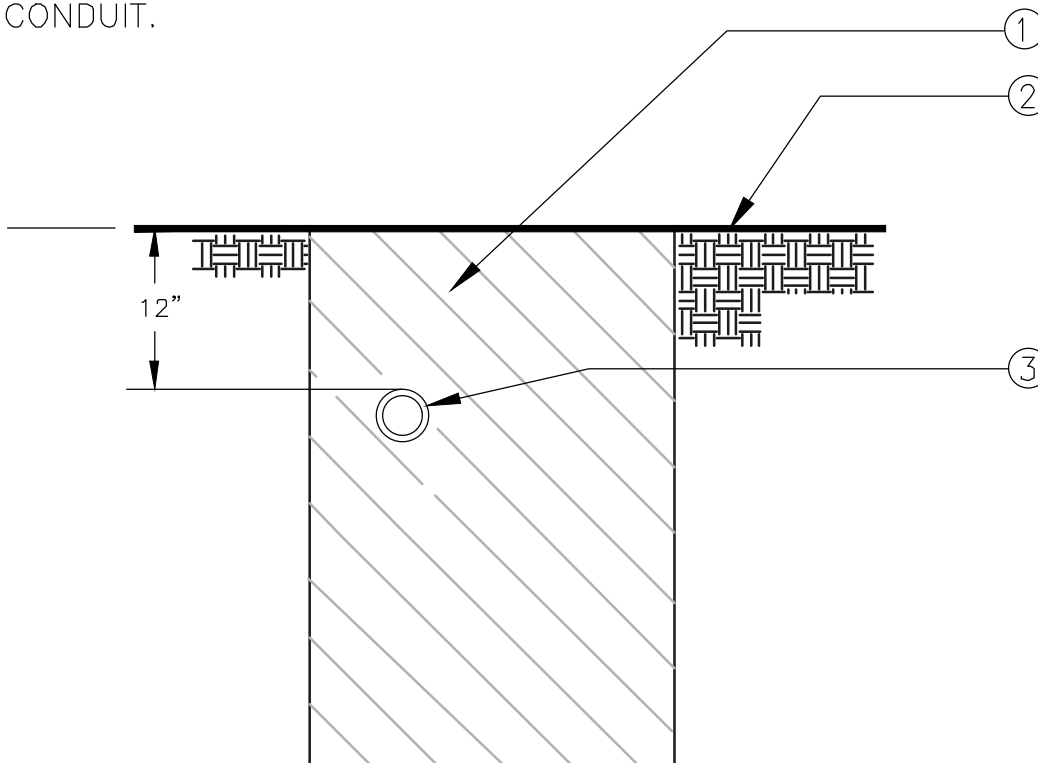
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DRAWN:	JK
CHECK:	MM
DATE:	05/24/2019
SCALE:	

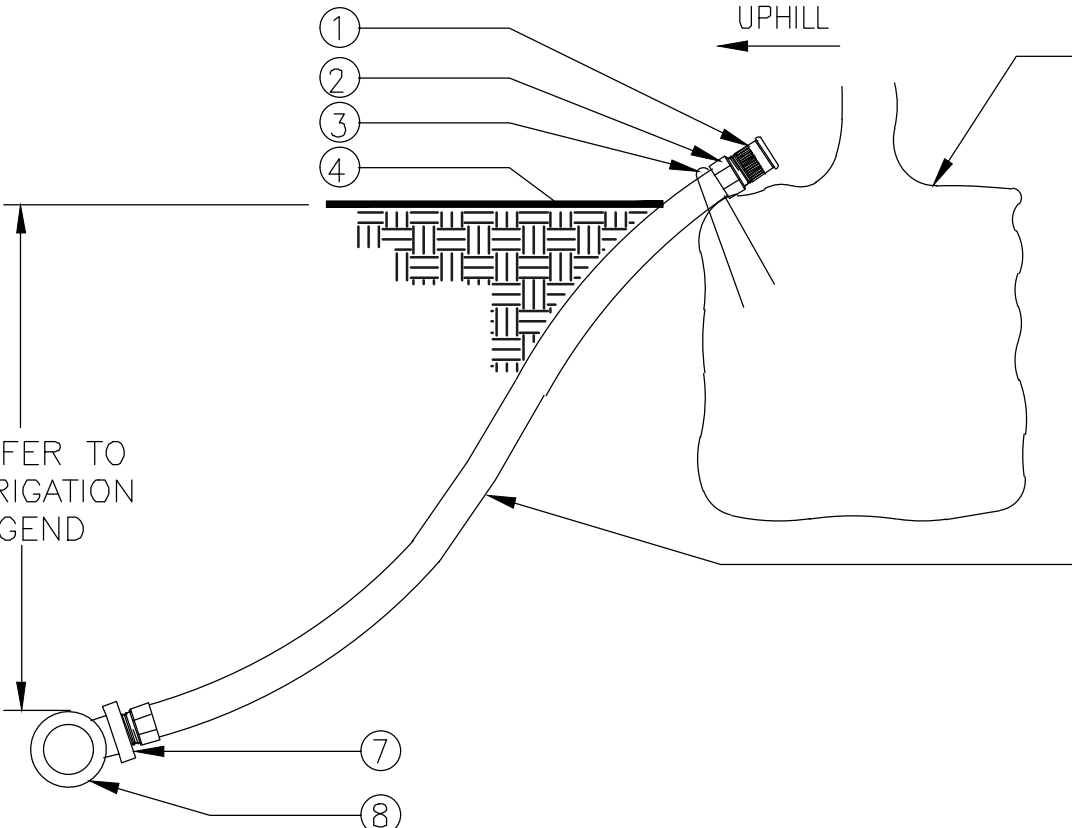


IRRIGATION PLAN  
AND LEGEND

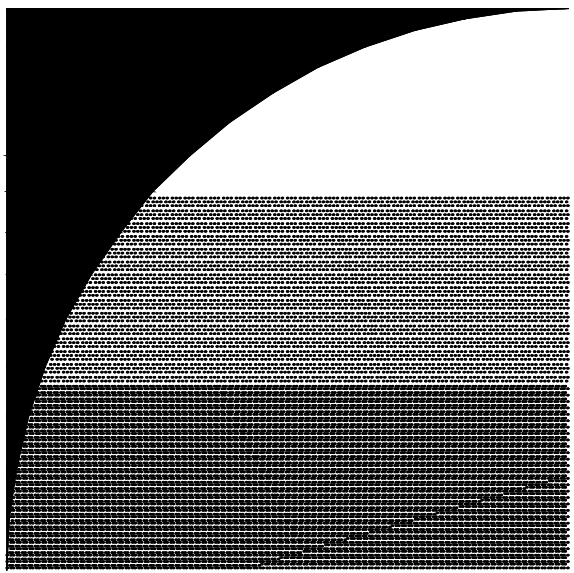
L3.1



 <p>1 REMOTE CONTROL VALVE WITH FLOW CONTROL AND MANUAL BLEED</p> <p>2 10" ROUND VALVE BOX. ONE VALVE PER BOX— NO EXCEPTIONS.</p> <p>3 FINISH GRADE</p> <p>4 PVC LATERAL LINE</p> <p>5 REFER TO IRRIGATION LEGEND</p> <p>6 3" MIN 6" MAX</p> <p>7 VALVE CONTROL WIRE— PROVIDE 3M—DBY SEAL PACKS AT ALL SPLICES AND 24" OF EXCESS UF WIRE IN A 1" DIAMETER COIL</p> <p>8 SCHEDULE 40 MALE ADAPTER (2 TOTAL)</p> <p>9 PEA GRAVEL OR 3/4" DRAIN ROCK— 4" [100mm] DEEP BELOW VALVE (NO SOIL IN VALVE BOX).</p> <p>10 19 GAUGE 1/2" [12mm] SQUARE WIRE MESH.</p> <p>11 UPC APPROVED SCHEDULE 40 PVC TEE</p> <p>12 SCHEDULE 40 PVC 90° ELBOW (SXS)</p> <p>13 SCHEDULE 40 PVC</p> <p>14 BRICK—1 EACH CORNER</p> <p>15 PVC MAIN LINE</p>	 <p>INSTRUCTIONS:</p> <p>1. STRIP WIRES APPROXIMATELY 1/2" (13 mm) TO EXPOSE WIRE.</p> <p>2. TWIST CONNECTOR AROUND WIRES CLOCKWISE UNTIL HAND TIGHT, DO NOT OVERTIGHTEN.</p> <p>3. INSERT WIRE ASSEMBLY INTO PLASTIC TUBE UNTIL WIRE CONNECTOR SNAPS PAST LIP IN BOTTOM OF TUBE.</p> <p>4. PLACE WIRES WHICH EXIT TUBE IN WIRE EXIT HOLES AND CLOSE CAP UNTIL IT SNAPS.</p> <p>5. INSPECT FINAL SPLICE ASSEMBLY TO BE SECURE AND FINISHED.</p>	 <p>14" x 19" RECTANGULAR VALVE BOX.</p> <p>12" TYPICAL</p> <p>10" DIAMETER ROUND VALVE BOX FOR QCV AND SPLICE BOX.</p> <p>EDGE OF LAWN, WALK, FENCE, CURB, ETC.</p> <p>TOP VIEW</p> <p>INSTRUCTIONS:</p> <p>1. CENTER VALVE BOX OVER REMOTE CONTROL VALVE TO FACILITATE SERVICING VALVE.</p> <p>2. SET BOXES 1" ABOVE FINISH GRADE OR MULCH COVER IN GROUND COVER/SHRUB AREA AND FLUSH WITH FINISH GRADE IN TURF AREA.</p> <p>3. SET RCV AND VALVE BOX ASSEMBLY IN GROUND COVER/SHRUB AREA WHERE POSSIBLE. INSTALL IN LAWN ONLY IF GROUND COVER DOES NOT EXIST ADJACENT TO LAWN.</p> <p>4. SET BOXES PARALLEL TO EACH OTHER AND PERPENDICULAR TO EDGE OF LAWN, WALK, FENCE, CURB, ETC.</p> <p>5. AVOID HEAVILY COMPACTING SOIL AROUND VALVE BOXES TO PREVENT COLLAPSE AND DEFORMATION OF VALVE BOX SIDES.</p> <p>6. INSTALL EXTENSION BY VALVE BOX MANUFACTURER AS REQUIRED TO COMPLETELY ENCLOSE ASSEMBLY FOR EASY ACCESS.</p>	<p>NOTES:</p> <p>1. ALL MAIN SUPPLY LINES AND LATERAL LINES SHALL BE PLACED IN SLEEVES UNDER PAVED SURFACES. INSTALL LOW VOLTAGE WIRES WITHIN A SEPARATE CONDUIT UNDER PAVED SURFACES. DO NOT TAPE WIRES WITHIN CONDUIT.</p>  <p>1 CLEAN BACKFILL MATERIAL.</p> <p>2 FINISH GRADE.</p> <p>3 LATERAL LINE.</p>
<p>1</p> <p>REMOTE CONTROL VALVE</p> <p>SCALE: NONE</p>	<p>2</p> <p>WEATHERPROOF WIRE SPLICE ASSEMBLY</p> <p>SCALE: NONE</p> <p>DET: WIRE—SPL</p>	<p>3</p> <p>VALVE BOX INSTALLATION</p> <p>SCALE: NONE</p> <p>DET: VALVE—B2</p>	<p>4</p> <p>TRENCHING</p> <p>SCALE: NONE</p>

 <p>1 BUBBLER (TO BE INSTALLED ON TOP OF ROOTBALL).</p> <p>2 1/2" SCH. 40 MALE ADAPTER.</p> <p>3 6" STAPLE.</p> <p>4 FINISH GRADE.</p> <p>5 SHRUB ROOTBALL.</p> <p>6 1/2" IPS FLEXIBLE PVC.</p> <p>7 PVC TEE (SST), ELBOW (ST) OR FEMALE ADAPTER.</p> <p>8 PVC LATERAL LINE.</p> <p>NOTE: SUGGESTED QUANTITY OF BUBBLERS PER TREES AND SHRUBS SIZE:</p> <ul style="list-style-type: none"> <li>SHRUBS = 1 BUBBLER</li> </ul>	<p>5</p> <p>SHRUB BUBBLER</p> <p>SCALE: NONE</p>
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**Russell D. Mitchell Associates, Inc.**  
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 Walnut Creek, CA 94597  
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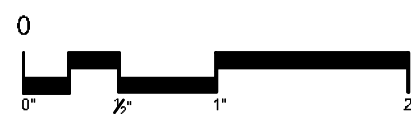
**OAK KNOLL**  
**ELEMENTARY**  
**SCHOOL**

MENLO PARK  
 CALIFORNIA

ISSUE: 1 DESCRIPTION: BID SET DATE: 05/24/2019



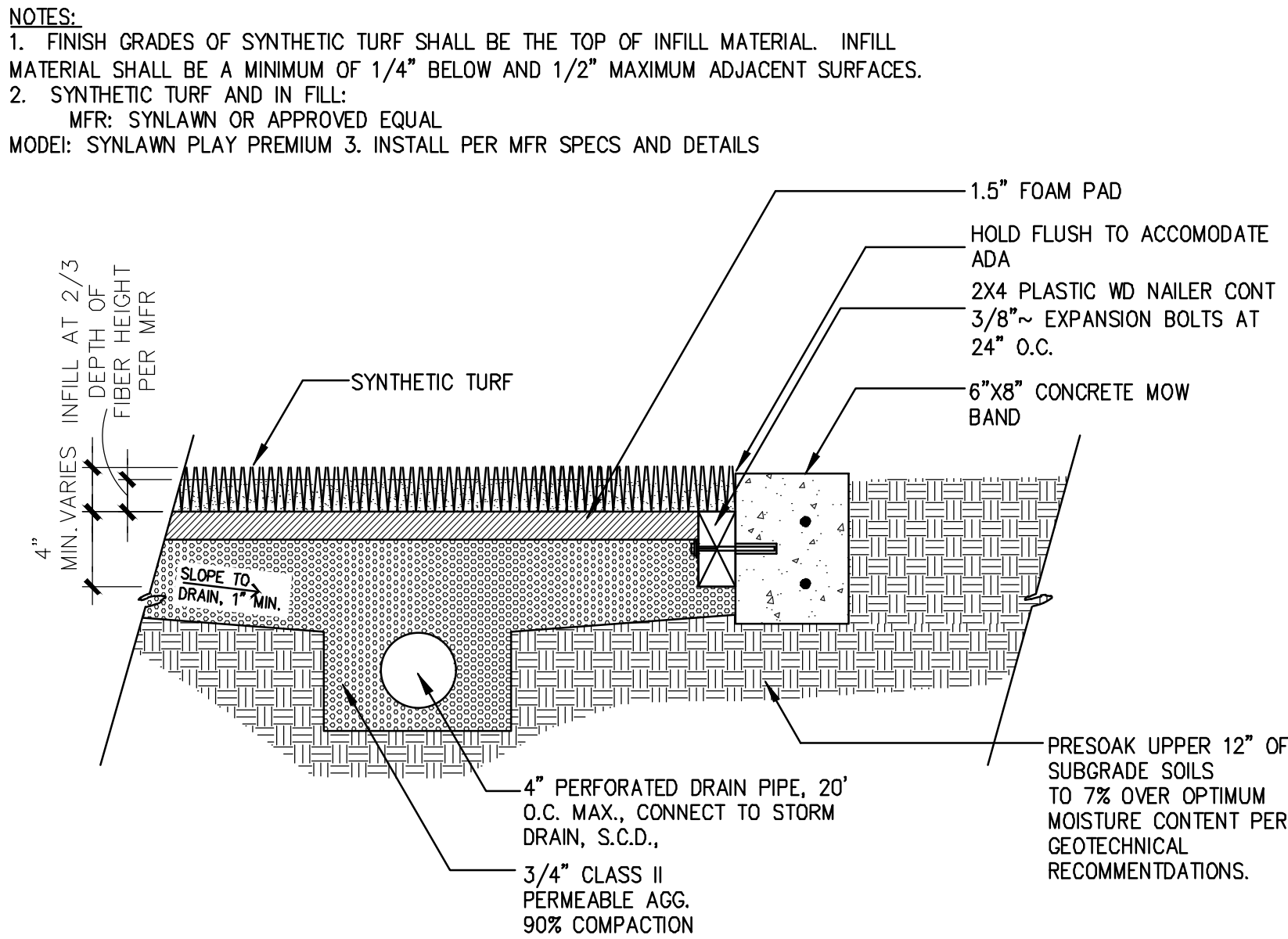
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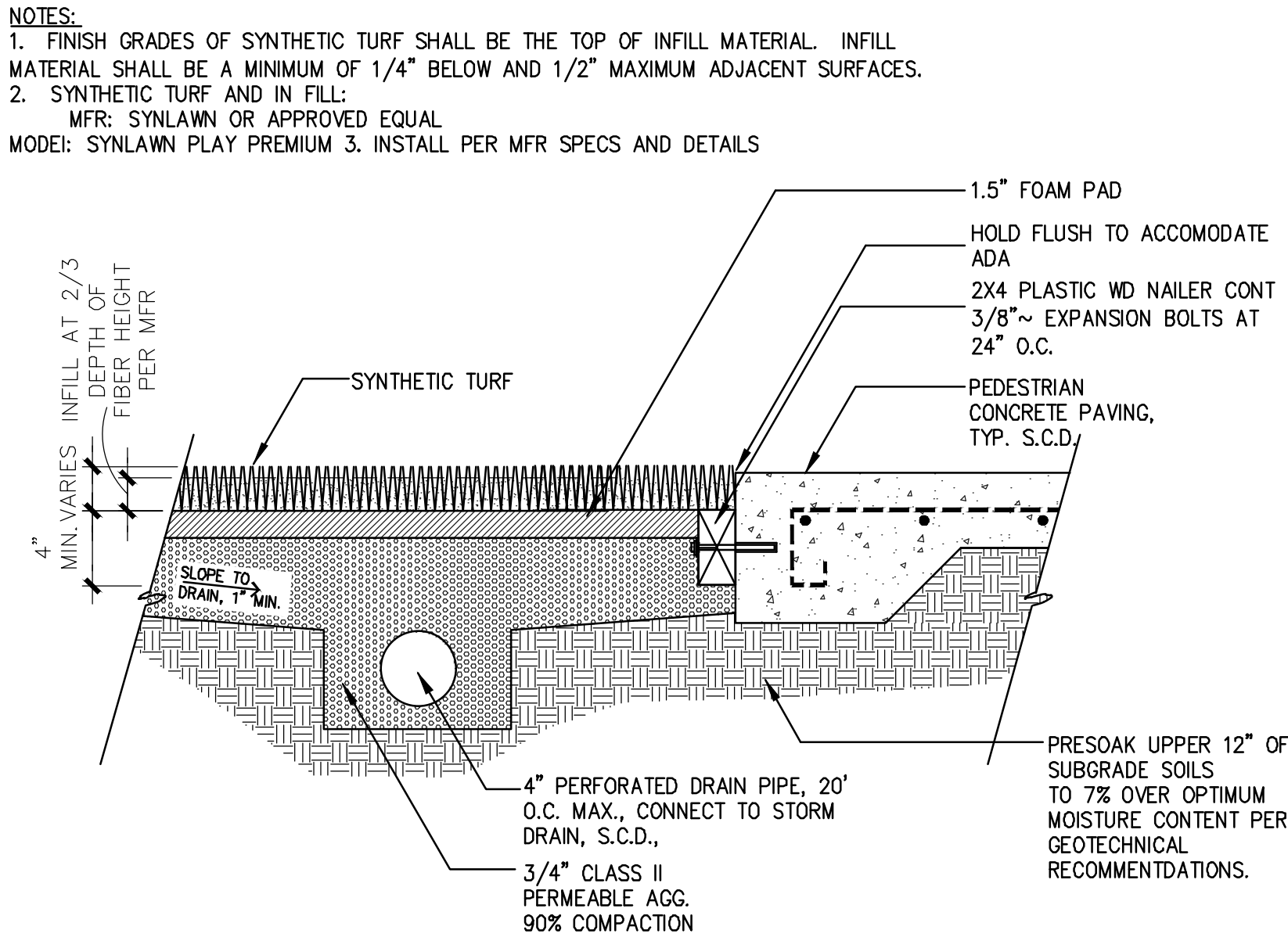
IRRIGATION DETAILS  
 AND WATER  
 CALCULATIONS

**L3.2**

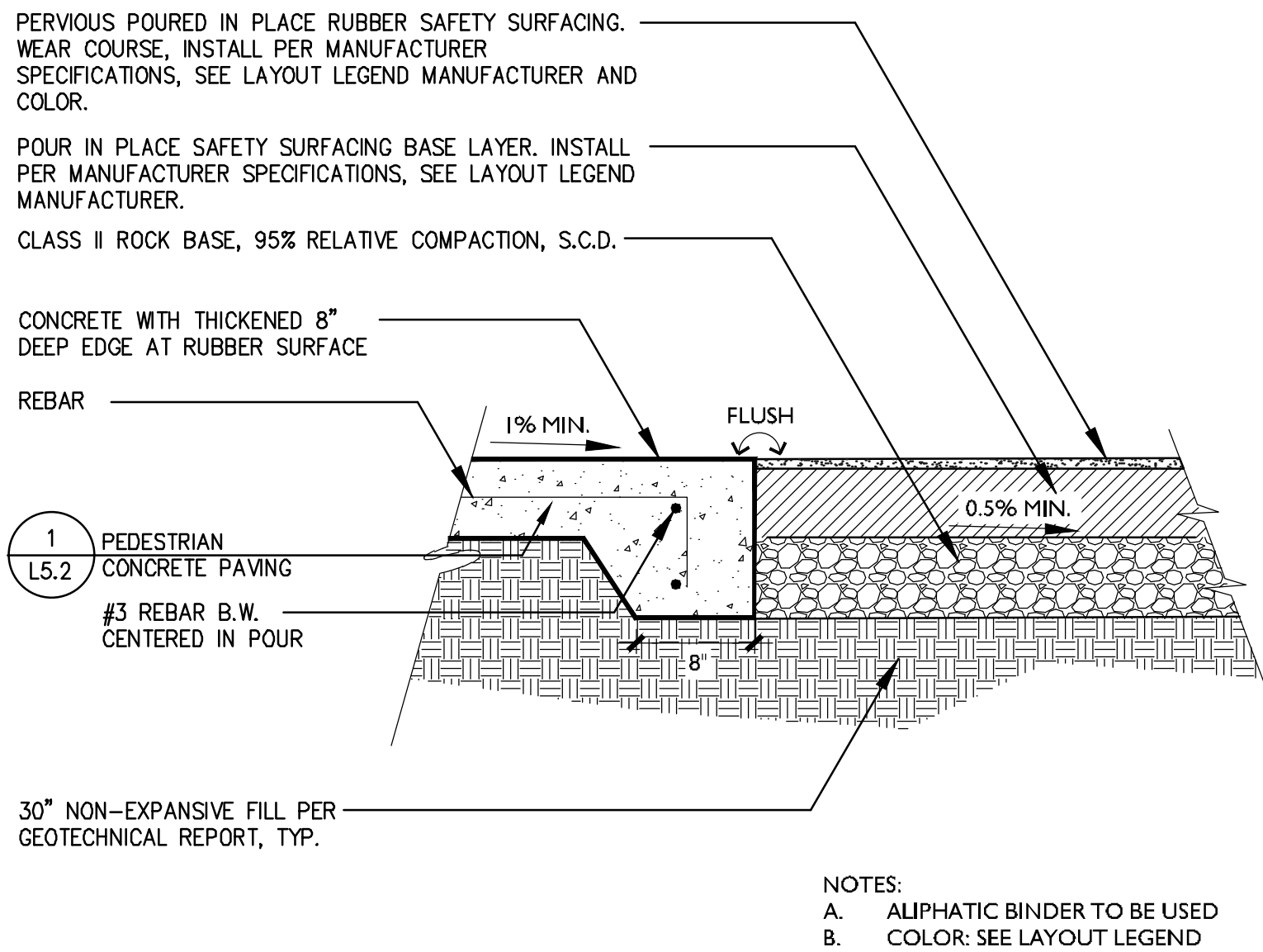
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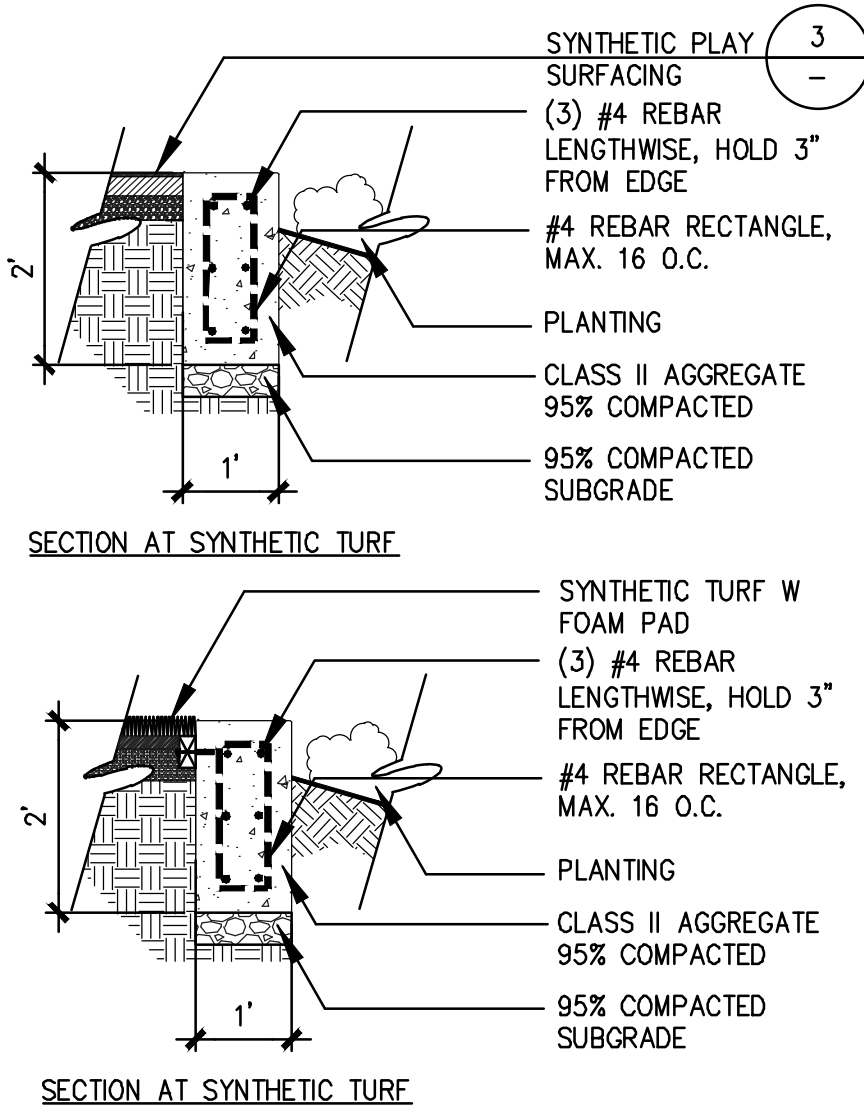
5 SYNTHETIC TURF AT MOW BAND  
 SCALE: 1-1/2" = 1'-0"



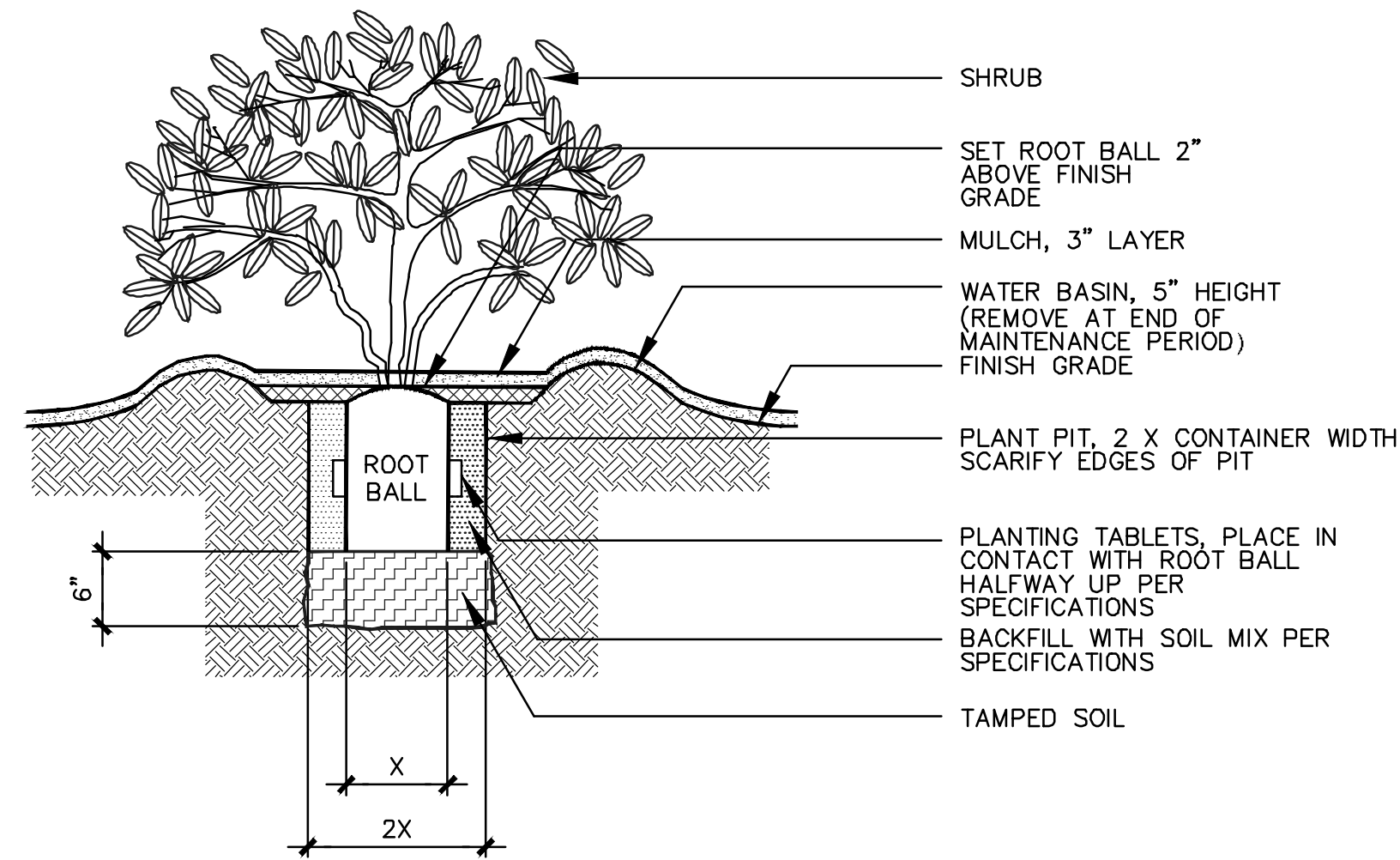
4 SYNTHETIC TURF  
 SCALE: 1-1/2" = 1'-0"



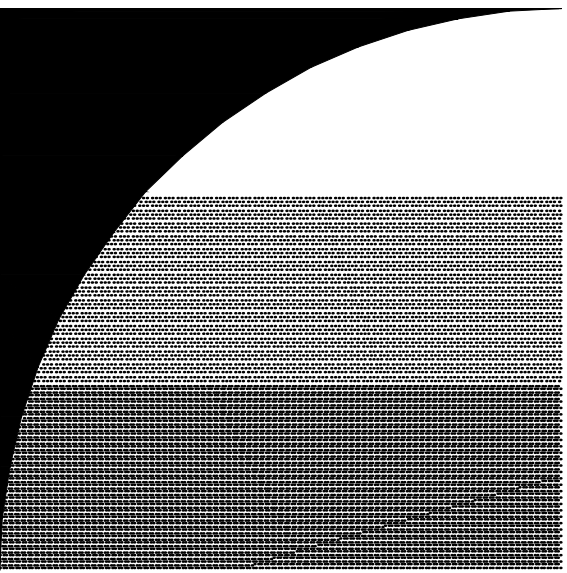
3 SAFETY SURFACING AT PEDESTRIAN CONCRETE PAVING  
 SCALE: 1-1/2" = 1'-0"



2 PLAY SURFACE EDGE @ PLANTING  
 SCALE: 1/2" = 1'-0"



1 SHRUB PLANTING  
 SCALE: 1" = 1'



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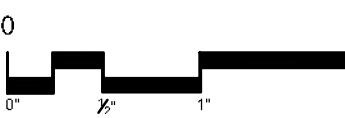
## OAK KNOLL ELEMENTARY SCHOOL

MENLO PARK  
 CALIFORNIA

ISSUE: 1 DESCRIPTION: BID SET DATE: 05/24/2019



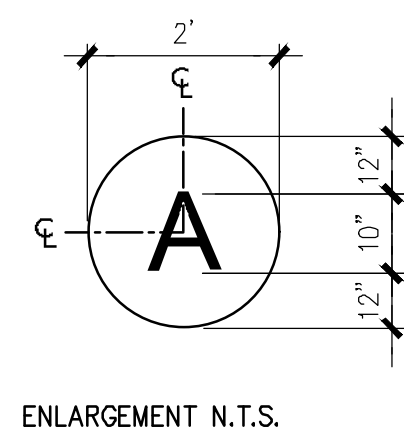
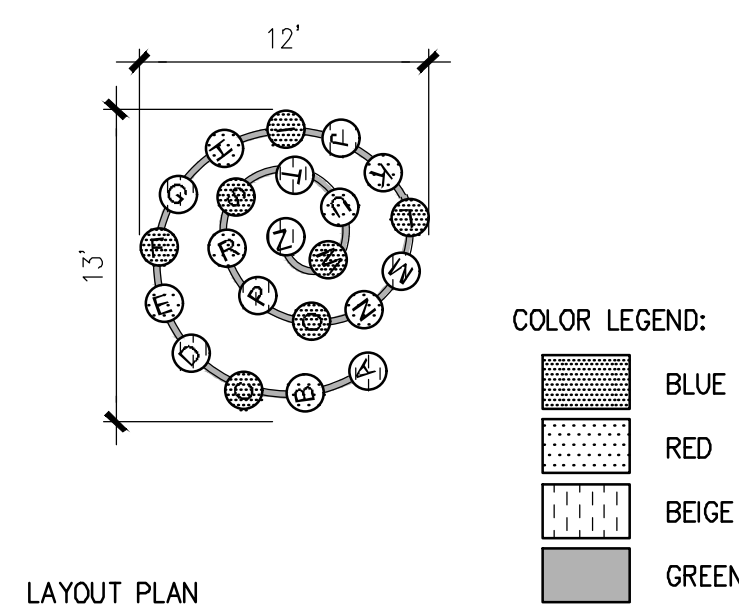
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 DRAWN: JK  
 CHECK: MM  
 DATE: 05/24/2019  
 SCALE: PER DETAIL



CONSTRUCTION DETAIL

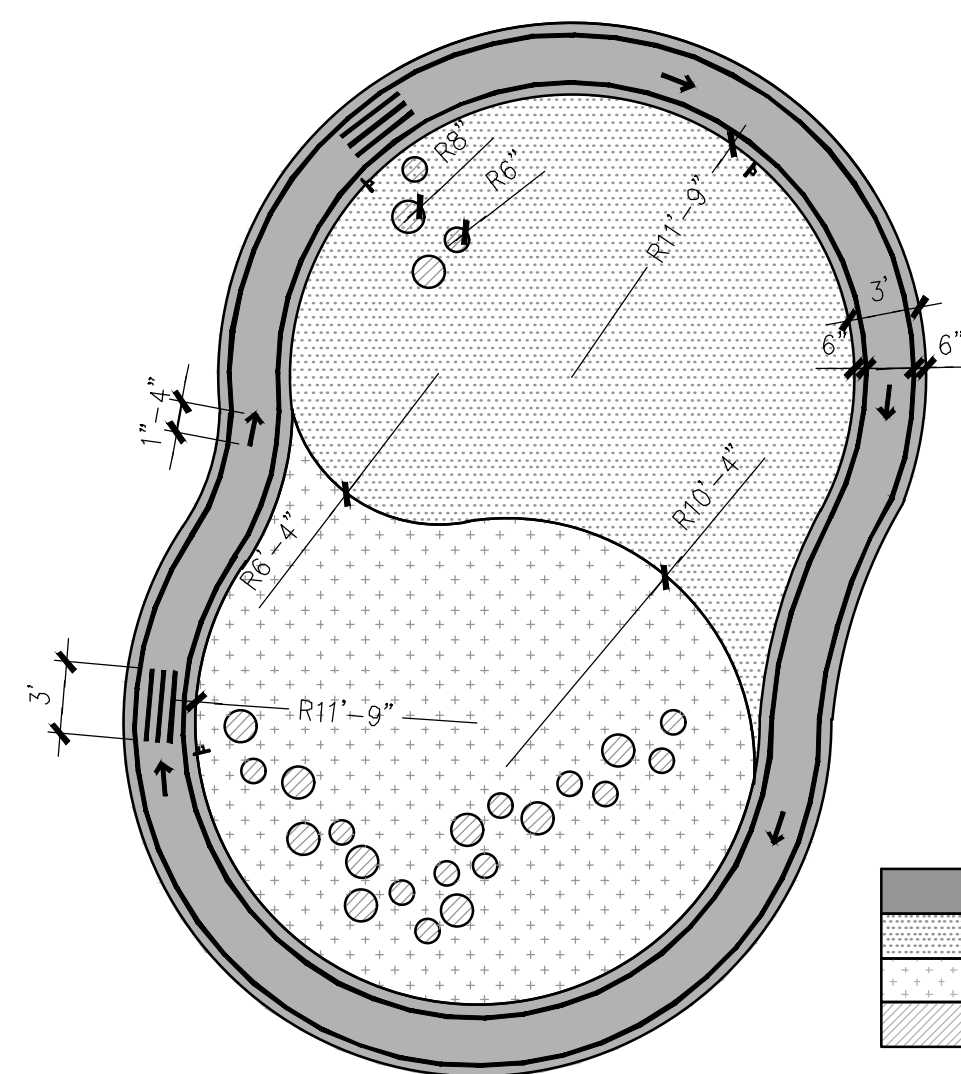
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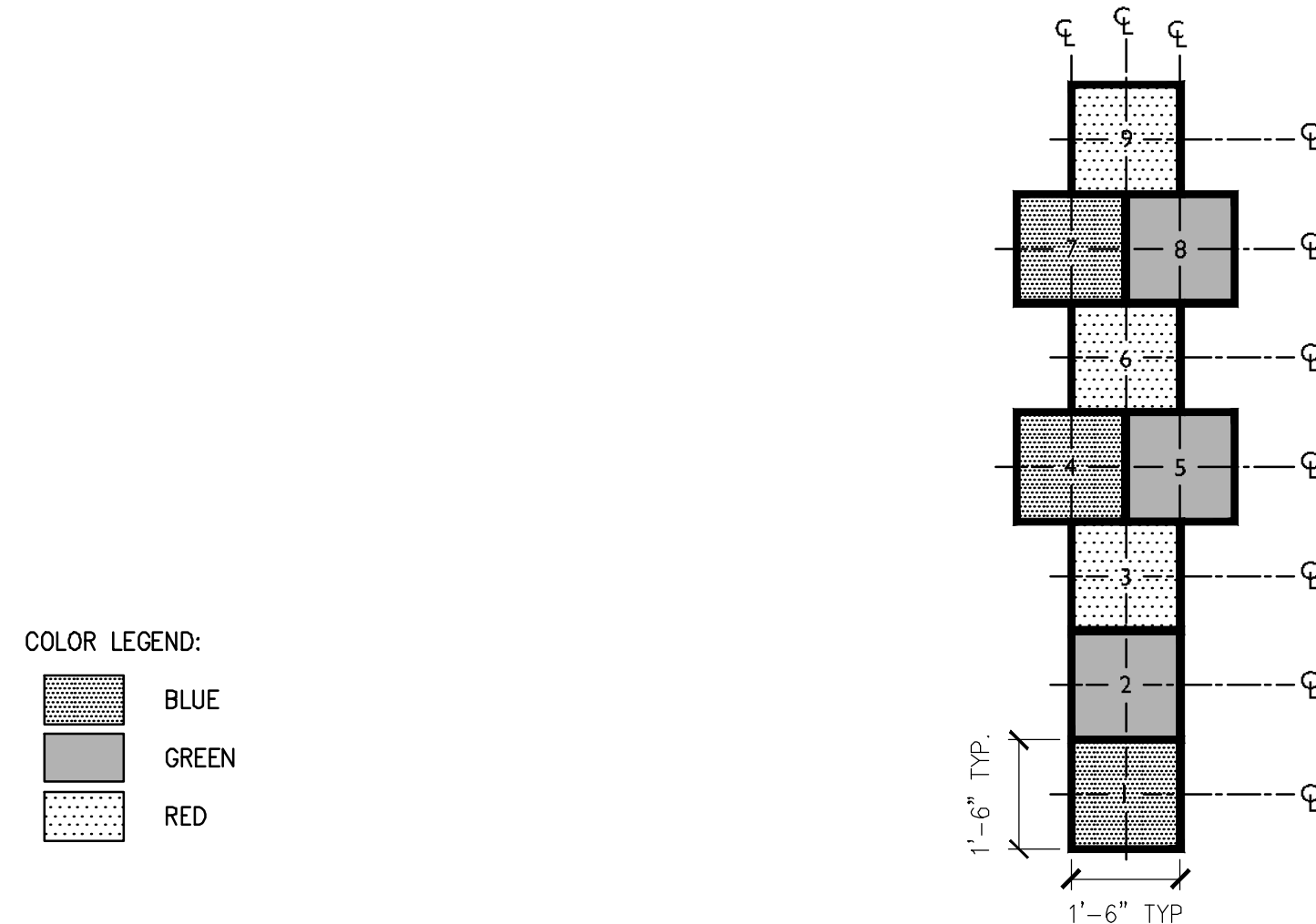


- NOTE:
1. ALL COURT MARKINGS TO BE 2" WIDE.
  2. ALL MEASUREMENTS OF COURT MARKINGS ARE TO CENTER LINES.
  3. DETAIL SHOWN FOR DESIGN INTENT ONLY
  4. CONTRACTOR SHALL LAYOUT AND RECEIVE FINAL APPROVAL FROM ARCHITECT PRIOR TO FINAL PLACEMENT.
  5. PROVIDE SKID TEX NON-SKID ADDITIVE TO ALL PAINTED SURFACES, TYP. PROVIDE MOCKUP OF PAINTED SURFACE PRIOR TO INSTALLATION

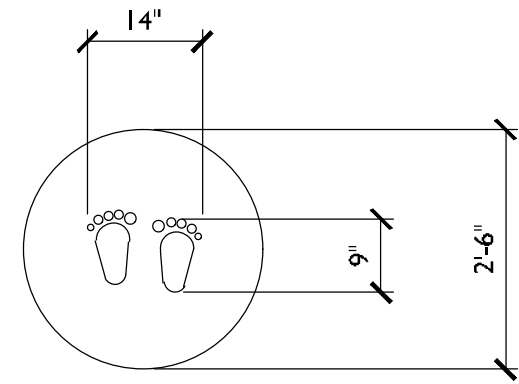
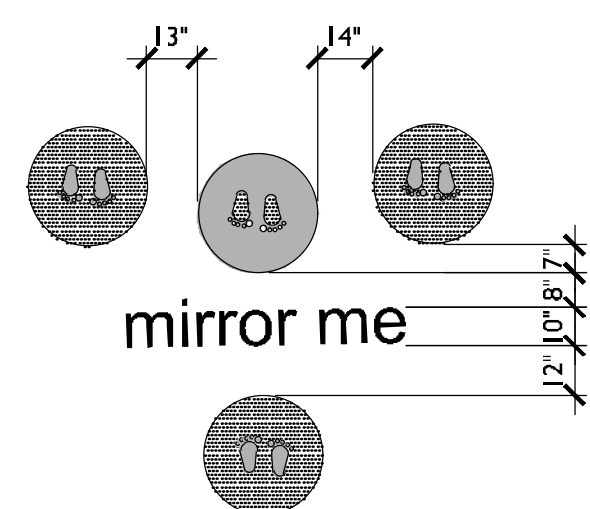
## 6 ALPHABET GAME



8 PLAYGROUND SURFACING PATTERN  
SCALE:  $1/8" = 1'-0"$

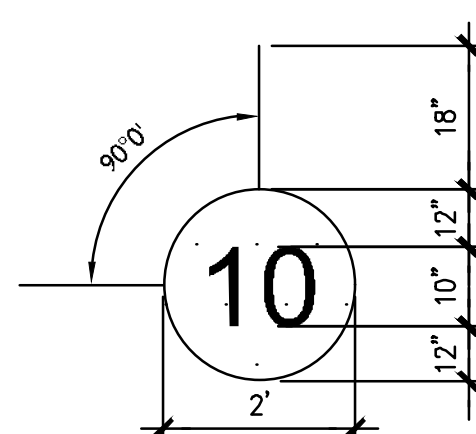
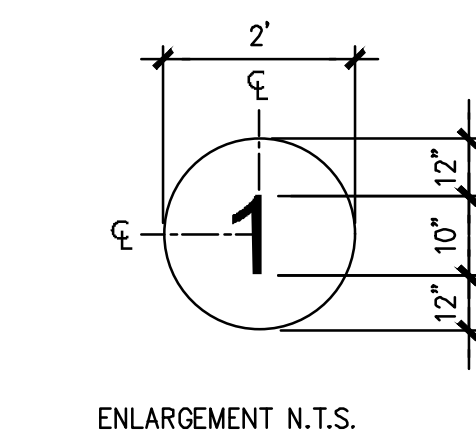
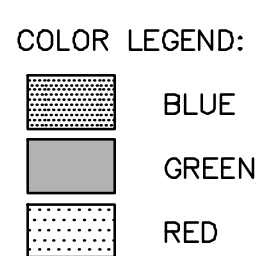
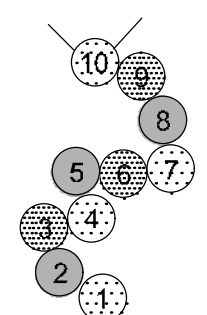


5 HOPSCOTCH COURTS  
SCALE: 1/4" = 1'-0"



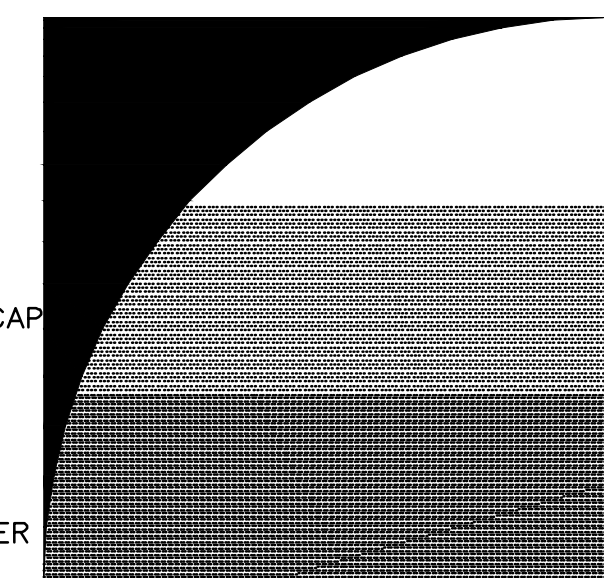
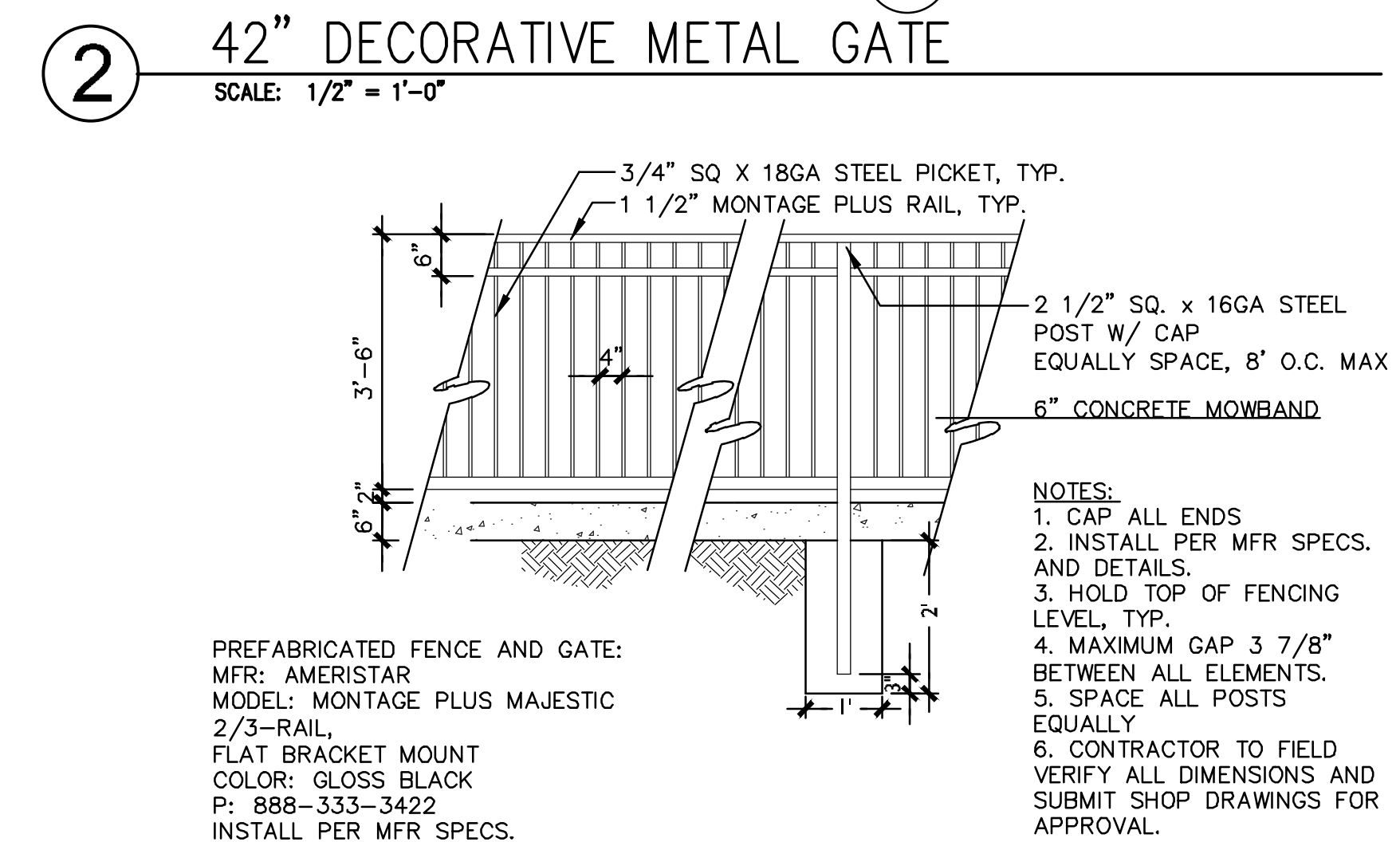
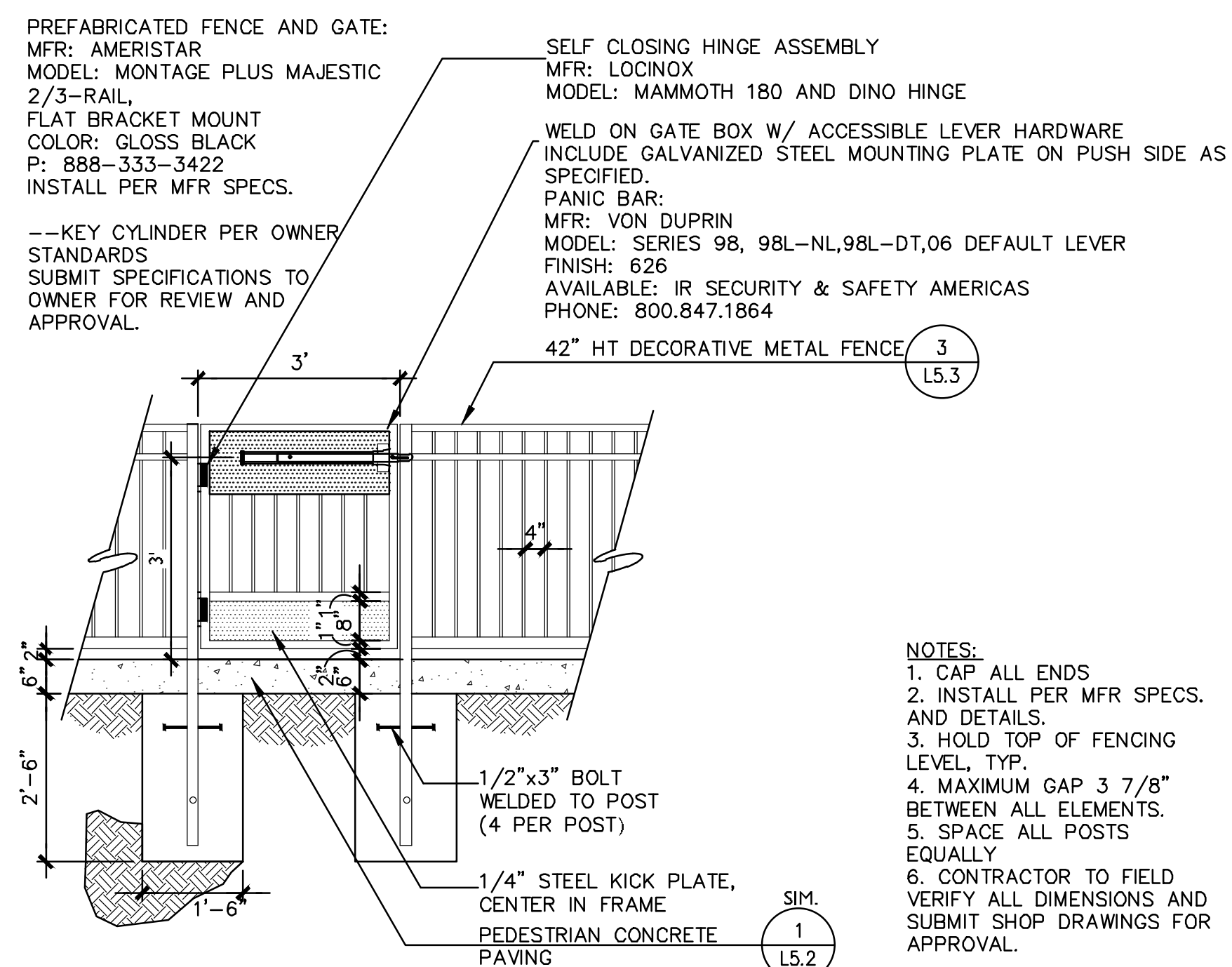
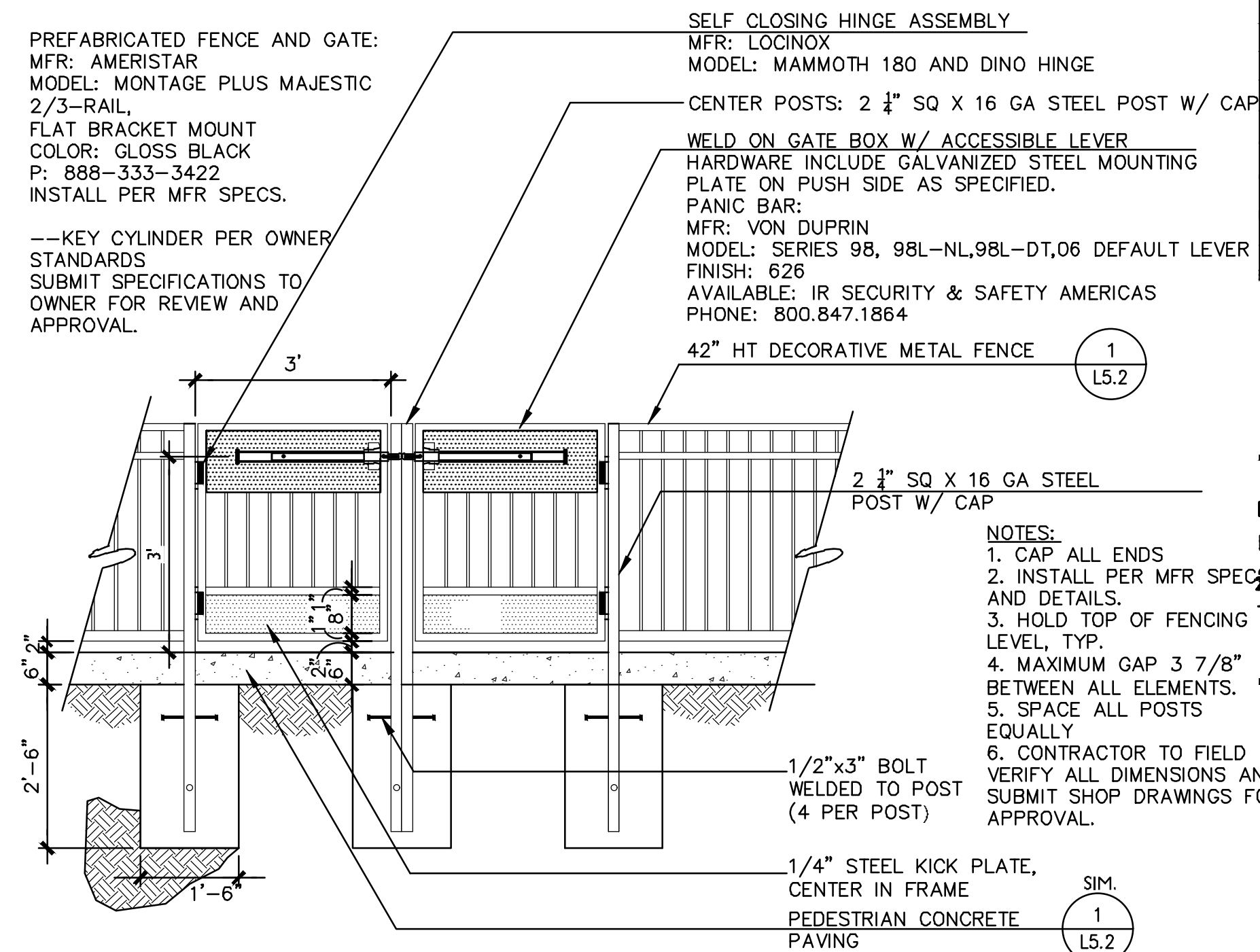
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7 MIRROR ME  
SCALE: 1/4" = 1'-0"



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## 4 NUMBER GAME



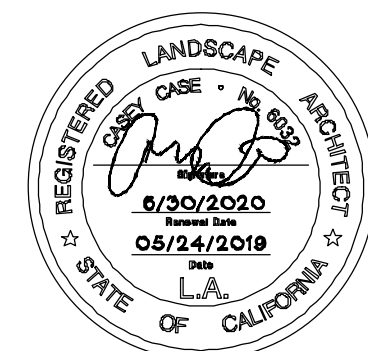
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<sup>D</sup> AND  
FOR

OAK KNOLL  
ELEMENTARY  
SCHOOL

MENLO PARK  
CALIFORNIA

ISSUE:	DESCRIPTION:	DATE:
1	BID SET	05/24/2019



PROJECT NUMBER: 5610  
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DATE: 05/24/2019  
SCALE: PER DETAIL



## CONSTRUCTION DETAILS

## L4.2

