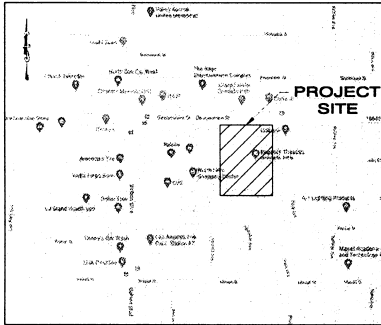


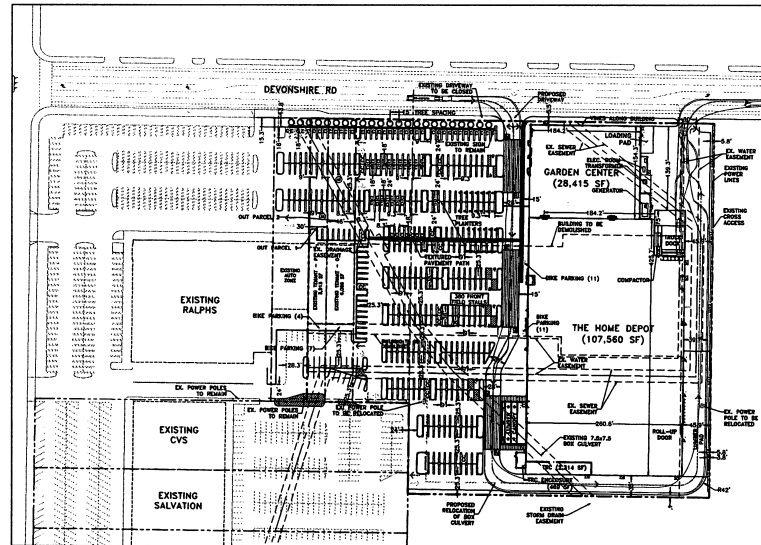
COMBINED SET PLAN FOR

# THE HOME DEPOT GRANADA HILLS, CA



GRANADA HILLS, CA

SHEET INDEX	
CS-1	COVER SHEET
C-1	SITE PLAN
C-2	ARCHITECT BASE PLAN
C-3	COLOR ELEVATIONS
CB	GRADING PLAN
CC1	SEWER AND WATER PLAN
CC2	STORM DRAIN PLAN
CD	LID PLAN
L1.00	TREE REMOVAL PLAN
L1.01	PLANTING PLAN
L1.02	PLANTING NOTES
L1.03	PARKING SHADE
L2.00	IRRIGATION PLAN
L2.01	HYDROZONE MAP & PLANTING NOTES
L3.00	LANDSCAPE DETAILS
L3.01	LANDSCAPE DETAILS
L4.00	LANDSCAPE SPECIFICATIONS
L4.01	LANDSCAPE SPECIFICATIONS
L4.02	LANDSCAPE SPECIFICATIONS
L4.03	LANDSCAPE SPECIFICATIONS



CONTACT LIST	
<b>PROJECT MANAGER</b>	
BOB DEWY 600 N. METROPOLITAN AVE SUITE 100 MADERA, CA 93703 Phone: 562-255-9999 Email: BOB@DEWYENGINEERING.COM	SOILS ENGINEER BOB & MOORE GEOLOGICAL & ENVIRONMENTAL ENGINEERS 2714 WILSON BLVD. SUITE 2000, CA 91303 Phone: 626-255-1888 EXT. 1488 Email: BOB@DEWYENGINEERING.COM
<b>SITE DEVELOPMENT</b>	
COORDINATION LAND ARCHITECTURE & ASSOC., INC. 1001 N. GARDEN ST. P.O. BOX 1000 POMONA, CA 91768 Phone: 909-866-6600 EXT. 103 Email: BOB@LANDARCHITECT.COM	ENVIRONMENTAL ATTORNEY TERRACON CONSULTANTS 11000 E. HARVEST BLVD. SUITE 400 DOWNEY, CA 90244 Phone: 562-944-9979 Email: COLBY@TERRACON.COM
<b>CIVIL ENGINEER</b>	
BOB WINDMIRE INC. 1470 Lowrey Way, CA 91041 Email: BOB@BOBWINDMIRE.COM	
<b>ARCHITECT</b>	
BOB WINDMIRE INC. 1470 Lowrey Way, CA 91041 Email: BOB@BOBWINDMIRE.COM	
<b>UTILITY</b>	
<b>WATER &amp; ELECTRIC</b> City of Los Angeles Water and Power	PHONE Metro: 311 Water and Power: 311
<b>GAS</b> San Antonio Planning Department P.O. Box 100 San Antonio, CA 94133 Phone: 415-779-3444 Email: ALAN@SANANTONIO.COM	PHONE San Antonio: 415-779-3444 San Antonio: 415-779-3444
<b>SEWER</b> LA Sanitation	PHONE 562-779-6489

APN: 2685-002-31, 2685-002-041, & 2685-002-42

LEGAL DESCRIPTION: THAT PORTION OF LOT 1 OF TRACT NO. 19177, IN THE CITY OF LOS ANGELES, COUNTY OF LOS ANGELES, STATE OF CALIFORNIA, AS PER MAP RECORDED IN BOOK 432, PAGES 16 AND 17 OF MAPS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY, DESCRIBED AS FOLLOWS:

BEGINNING AT THE MOST EASTERLY NORTHWEST CORNER OF SAID LOT 1; THENCE ALONG THE MOST EASTERLY BOUNDARY OF SAID LOT 1, SOUTH 89° 59' 04" WEST 806.25 FEET TO AN ANGLE POINT THEREIN; THENCE CONTINUING ALONG THE BOUNDARY OF SAID LOT 1, SOUTH 89° 59' 04" WEST 806.25 FEET TO THE SOUTHERLY PROLONGATION OF THE EASTERLY LINE OF LOT 3 OF TRACT NO. 33589 AS SAID PROLONGATION IS SHOWN ON SAID MAP OF SAID TRACT NO. 19177; THENCE ALONG SAID PROLONGATION NORTH 0° 14' WEST 150.00 FEET TO THE LINE SHOWN ON SAID TRACT NO. 19177 AS THE SOUTHERLY LINE OF SAID TRACT 33589; THENCE ALONG SAID SOUTHERLY LINE SOUTH 89° 59' 04" WEST TO THE SOUTHEASTERLY CORNER OF THE LAND DESCRIBED AS PARCEL 1 IN BOOK D-4034, PAGE 960, OF OFFICIAL RECORDS OF SAID COUNTY; THENCE ALONG THE EASTERLY LINE OF SAID PARCEL 1, NORTH 0° 01' 10" WEST 476.52 FEET, MORE OR LESS TO THE NORTHERLY OF SAID LOT 1; THENCE ALONG SAID NORTHERLY LINE NORTH 89° 59' 15" EAST TO THE POINT OF BEGINNING, EXCEPTING THAT PORTION OF LOT 1 INCLUDED WITHIN THE NORTHWEST QUARTER OF LOT 8 IN SECTION 18 OF SUBDIVISION NO. 1 OF THE PROPERTY OF THE PORTER LAND AND WATER COMPANY AS PER MAP RECORDED IN BOOK 31, PAGE 5 ET SEQ. OF MISCELLANEOUS RECORDS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY, 50 PERCENT INTEREST IN ALL MINERALS AND OIL RIGHTS IN SAID LANDS AS RECEIVED BY MARY F. GLADCOCK, IN DEED RECORDED NOVEMBER 24, 1943 IN BOOK 20470, PAGE 116, OF OFFICIAL RECORDS; ALL RIGHT, TITLE AND INTEREST IN AND TO THE USE OF THE SURFACE AND THE SUBSURFACE AREA TO A DEPTH OF 500 FEET MEASURED FROM SAID SURFACE OF SAID LAND WAS CONVEYED TO THE RECORD OWNER OF SAID LAND BY DEED RECORDED DECEMBER 31, 1957 AS INSTRUMENT NO. 1943 IN BOOK 56335, PAGE 221, OF OFFICIAL RECORDS.

Received by City Planning on April 5, 2024

**FUSCOE**  
CONSULTANTS

**MG2**

**LARS ANDERSEN & ASSOCIATES, INC.**  
CIVIL ENGINEERS - LAND SURVEYORS - PLANNERS  
4091 W.31 JACOBULLY AVENUE • FRESNO, CALIFORNIA 93727  
TEL: 524-746-1796 FAX: 508-276-0853 WWW.LARSANDERSEN.COM

LA PROJECT NO. 2185

**THE HOME DEPOT**  
GRANADA HILLS, CA  
SEC DEVONSHIRE & BALBOA  
GRANADA HILLS, CA 91344

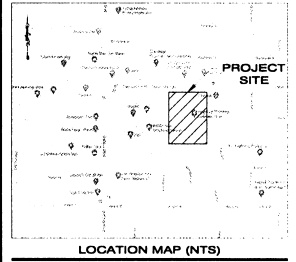
SD SITE SELECTION NUMBER SS-02752.2003

**CS-1 COVER SHEET**

- NON-PROTOTYPICAL MODIFICATIONS**
- HOME DEPOT DIMENSIONS
  - GARDEN CENTER LOCATION
  - GARDEN CENTER LOADING PAD
  - TRC ENCLOSURE SIZE AND LOCATION
  - TRUCK DOCK LOCATION
  - FRONT DRIVE REDUCED TO 28'
  - REAR DRIVE DIMENSION
  - SHOWERS AND LOCKERS REQUIRED
  - SHORT TERM & LONG-TERM BICYCLE PARKING REQUIRED
  - TRUCK ENTRANCE/EXIT FROM DEVONSHIRE IS LIMITED TO RIGHT-IN/RIGHT-OUT

**LARS ANDERSEN & ASSOCIATES, INC.**  
 CIVIL ENGINEERS - LAND SURVEYORS - PLANNERS  
 4654 WEST 42ND AVENUE, FRIEDRICH, COLORADO 80521  
 TEL: 303-278-2700 FAX: 303-278-0700 [WWW.LANDSERVICES.COM](http://WWW.LANDSERVICES.COM)

LA PROJECT NO. 21003



**SITE AREA**

THE HOME DEPOT PARCEL	8.14 AC	354,854 SF
OUT PARCEL 1	0.33 AC	14,155 SF
OUT PARCEL 2	0.49 AC	21,635 SF
<b>TOTAL SITE AREA</b>	<b>8.96 AC</b>	<b>390,645 SF</b>

**BUILDING AREA**

THE HOME DEPOT	107,560 SF
MEZZANINE	107,560 SF
SUBTOTAL	215,120 SF
GARDEN CENTER	28,415 SF
VESTIBULES	0 SF
TOTAL THD AREA	136,975 SF
TENANT - P	3,923 SF
TENANT - O	6,052 SF
<b>TOTAL BUILDING AREA</b>	<b>145,964 SF</b>

**PARKING REQUIRED**

THE HOME DEPOT	3/1000 SF	323 STALLS
GARDEN CENTER	1/500 SF	57 STALLS
TOTAL HD PARKING		380 STALLS
TENANT - P	3/1000 SF	12 STALLS
TENANT - O	3/1000 SF	18 STALLS
<b>TOTAL PARKING REQUIRED</b>		<b>411 STALLS</b>

**PARKING PROVIDED**

FRONT FIELD	380 STALLS
SIDE FIELD / REAR	0 STALLS
TOTAL THD PARKING	380 STALLS
TENANT - P	12 STALLS
TENANT - O	19 STALLS
<b>TOTAL PARKING PROVIDED</b>	<b>411 STALLS</b>

**BICYCLE PARKING REQUIRED**

THD SHORT-TERM	1/10,000 SF	11 SPACES
THD LONG-TERM	1/10,000 SF	11 SPACES
<b>TOTAL THD REQUIRED</b>		<b>22 SPACES</b>

**TENANT O**

TENANT O	1/2,000 SF	7 SPACES
TENANT P	1/2,000 SF	4 SPACES

**INCLUDED IN PARKING PROVIDED**  
 ACCESSIBLE STALLS (9 REQ. @ 401-500) 9 STALLS

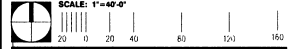
**INCLUDED IN PARKING PROVIDED**  
 CART CORRALS 14 STALLS  
 TOTAL THD PARKING PROVIDED 375 STALLS

**ZONING CLASSIFICATION**  
 JURISDICTION: CITY OF LOS ANGELES  
 ZONING CLASSIFICATION: COMMUNITY COMMERCIAL (C2-1V)  
 THD USE PERMITTED BY RIGHT: YES  
 SPECIFIC PLAN: GRANADA HILLS SPECIFIC PLAN  
 ENTITLEMENT REQUIRED: SITE PLAN REVIEW  
 DESIGN REVIEW BOARD  
 PROJECT PERMIT COMPLIANCE (FOR SPECIFIC PLAN)

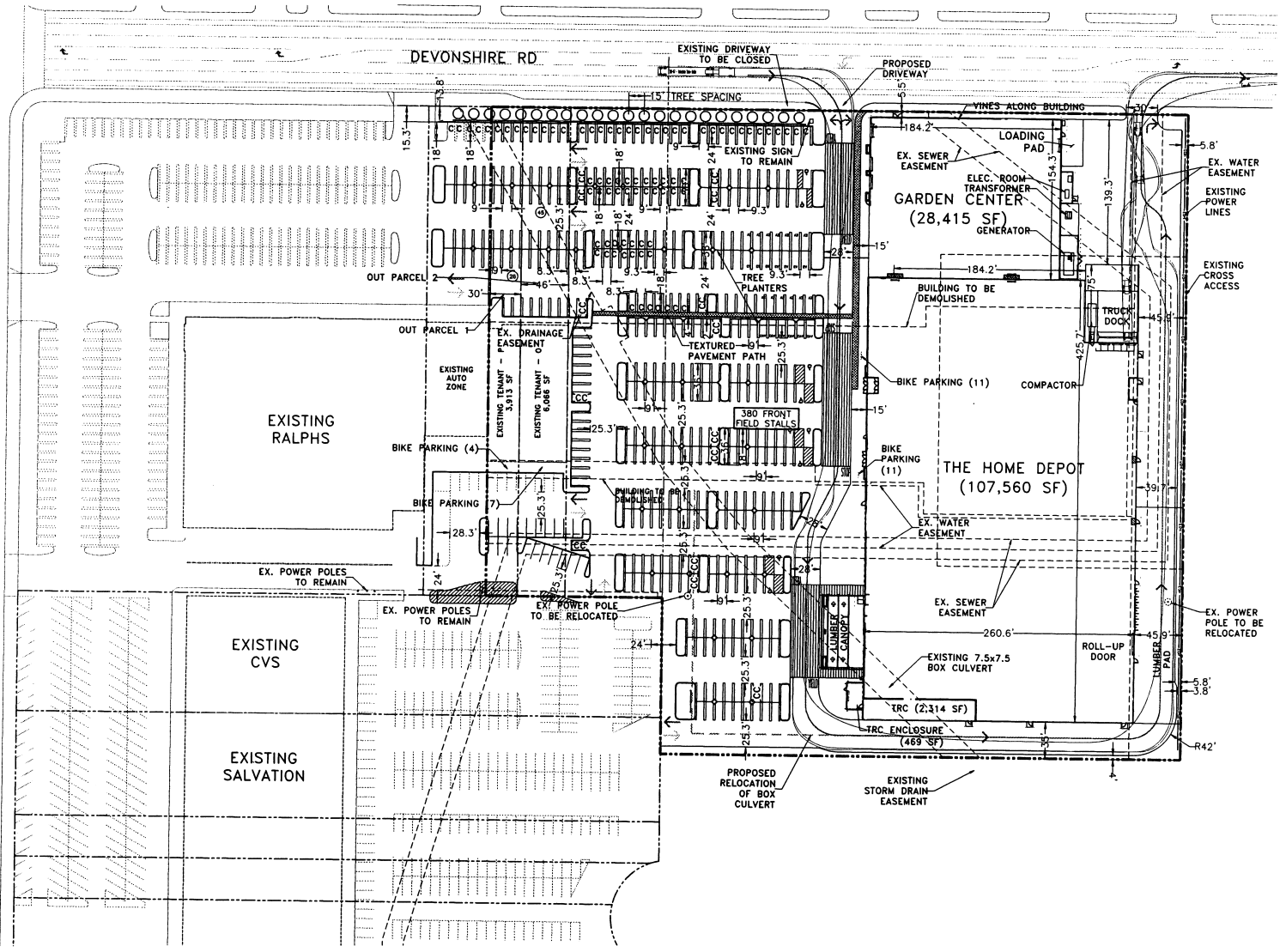
**LANDSCAPING**  
 REQUIRES 10% OF SURFACE PARKING LOT  
 TOTAL SURFACE PARKING LOT = 178,020 SF  
 LANDSCAPING PROVIDED IN PARKING LOT = 20,949 SF  
 LANDSCAPING PERCENTAGE = 11.8% (20,949 SF/178,020 SF)

**THE HOME DEPOT**  
**GRANADA HILLS, CA**  
 SEC DEVONSHIRE & BALBOA  
 GRANADA HILLS, CA 91344

DRAWING ISSUE DATE: 03.22.2024  
 HD SITE SELECTION NUMBER: SS-02752.2003



**C-1 SITE PLAN**



**BULK REGULATIONS**

	REQUIRED	PROVIDED
FRONT SETBACK (BLDG.):	N/A	N/A
SIDE SETBACK (BLDG.):	N/A	5'
REAR SETBACK (BLDG.):	N/A	5'
LANDSCAPE BUFFER:	N/A	5'
FLOOR AREA RATIO:	1.5 MAX.	1.5



**NOTES**  
 1. PLAN BOUNDARY IS BASED OFF AVAILABLE PHOTOMAPS, AN ALTA SHOULD BE COMPLETED FOR ACCURACY.



BALBOA BLVD

DEVONSHIRE RD

EXISTING RALPHS

EXISTING CVS

EXISTING SALVATION

GARDEN CENTER (28,415 SF)

THE HOME DEPOT (107,560 SF)

EXISTING 7.5x7.5 BOX CULVERT

TRC (2,314 SF)

TRC ENCLOSURE (469 SF)

PROPOSED RELOCATION OF BOX CULVERT

EXISTING STORM DRAIN EASEMENT

LOADING PAD

ELEC. ROOM TRANSFORMER

GENERATOR

BIKE PARKING (11)

BIKE PARKING (11)

EXISTING 7.5x7.5 BOX CULVERT

TRC (2,314 SF)

TRC ENCLOSURE (469 SF)

PROPOSED RELOCATION OF BOX CULVERT

EXISTING STORM DRAIN EASEMENT

EXISTING SIGN TO REMAIN

EXISTING WATER EASEMENT

EXISTING POWER LINES

EXISTING CROSS ACCESS

EXISTING AUTO ZONE

EXISTING TENANT 3,913 SF

EXISTING TENANT 6,065 SF

EXISTING DRAINAGE EASEMENT

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

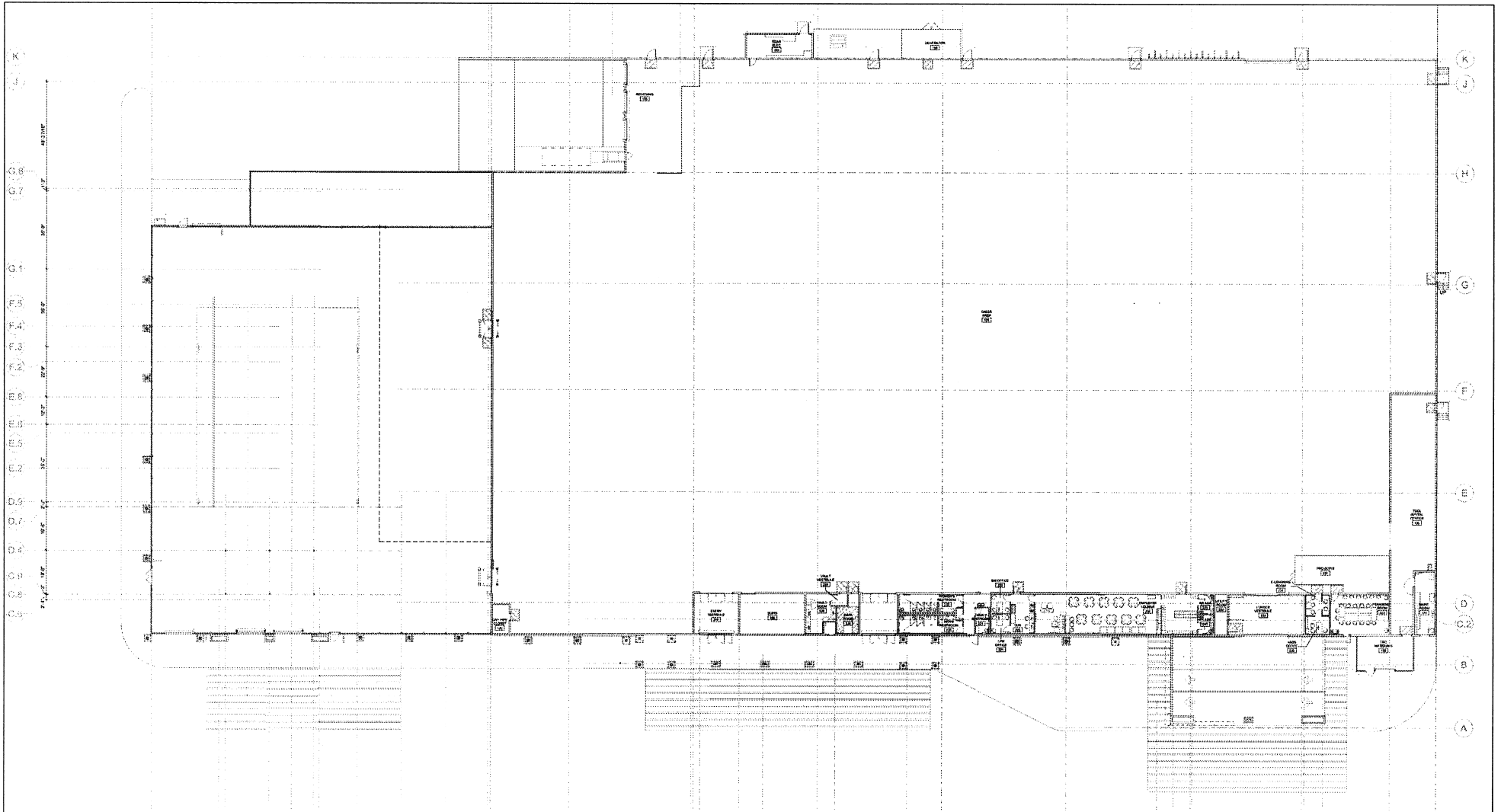
EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

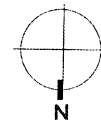
EXISTING TRUCK DOCK

EXISTING TRUCK DOCK

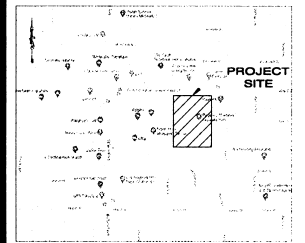
EXISTING TRUCK



**BUILDING DESIGN PRESENTATION**  
**GRANADA HILLS, CA**  
03 . 07 . 2024



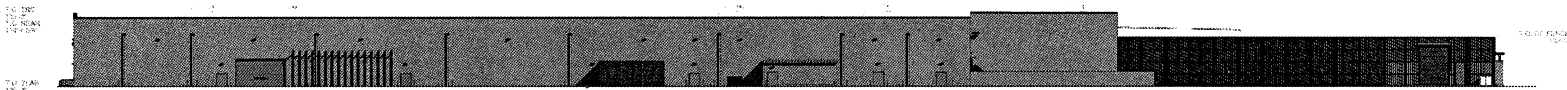
**C-2 ARCHITECT BASE PLANS**



LOCATION MAP (NTS)



1 EXTERIOR ELEVATION - FRONT  
SCALE: 1/8"=1'-0"



2 EXTERIOR ELEVATION - REAR  
SCALE: 1/8"=1'-0"



3 EXTERIOR ELEVATION - TRC  
SCALE: 1/8"=1'-0"



4 EXTERIOR ELEVATION - GARDEN CENTER  
SCALE: 1/8"=1'-0"

#	DESCRIPTION	MATERIAL	COLOR	FINISH	NOTES
1	WALL PANEL	CONCRETE TILT PANEL	LIGHT TAUPE	SMOOTH	
2	WALL PANEL	CONCRETE TILT PANEL	DARK TAUPE	SMOOTH	
3A	LEDGE STONE WALL PANEL	FORMLINER ON CONCRETE TILT PANEL	DARK TAUPE	PAINTED	
3B	LEDGE STONE VENEER	FIELDSTONE	NATURAL		
4	ROOF	TERRAZZOTA	"TND BRONZE"	SMOOTH PAINT	PPG CUSTOM PAINT
5	CORNING 1X4	METAL	"TND BRONZE"	PAINT	PPG CUSTOM PAINT
6	CORNICE	METAL	"TND BRONZE"	PAINT	PPG CUSTOM PAINT
7	CONCRETE CAP	CONCRETE	NATURAL	SACK FINISH	
8	CANOPY	METAL ACCENT WIDE FLANGE	"TND BRONZE"	PAINT	PPG CUSTOM PAINT
9	BOLLARD	STEEL	ORSA SAFETY YELLOW	PRE-FINISHED	
10	TRELLIS	STEEL	BLACK	PRE-FINISHED	
11	DECORATIVE FENCE	ALUMINUM	BLACK	PAINT	
12	3/4" HD 8 EXPANDED METAL SECURITY MESH	ALUMINUM	BLACK	PAINT	
13	CONCRETE CURB	C.I.P. CONCRETE	NATURAL	PRE-FINISHED	
14	WALL PACK FIXTURES	METAL	BRONZE	PRE-FINISHED	INTERNALLY ILLUMINATED
15	SIGNAGE	REVERSE PAN METAL LETTERS	HOMER BUCKEY ORANGE	PRE-FINISHED	
16	STOREFRONT SYSTEM	ANODIZED ALUMINUM	DARK BRONZE	PRE-FINISHED	
17	DOOR AND FRAME	HOLLOW METAL	COLOR TO MATCH ADJACENT WALL	PAINT	
18	DOOR DOOR	STEEL	GRAY	PRE-FINISHED	
19	COMPARTOR	STEEL	GRAY	PRE-FINISHED	
20	OVERHEAD DOOR	STEEL	COLOR TO MATCH ADJACENT WALL	PRE-FINISHED	
21	CONCRETE CART CLAB	C.I.P. CONCRETE	NATURAL	PRE-FINISHED	



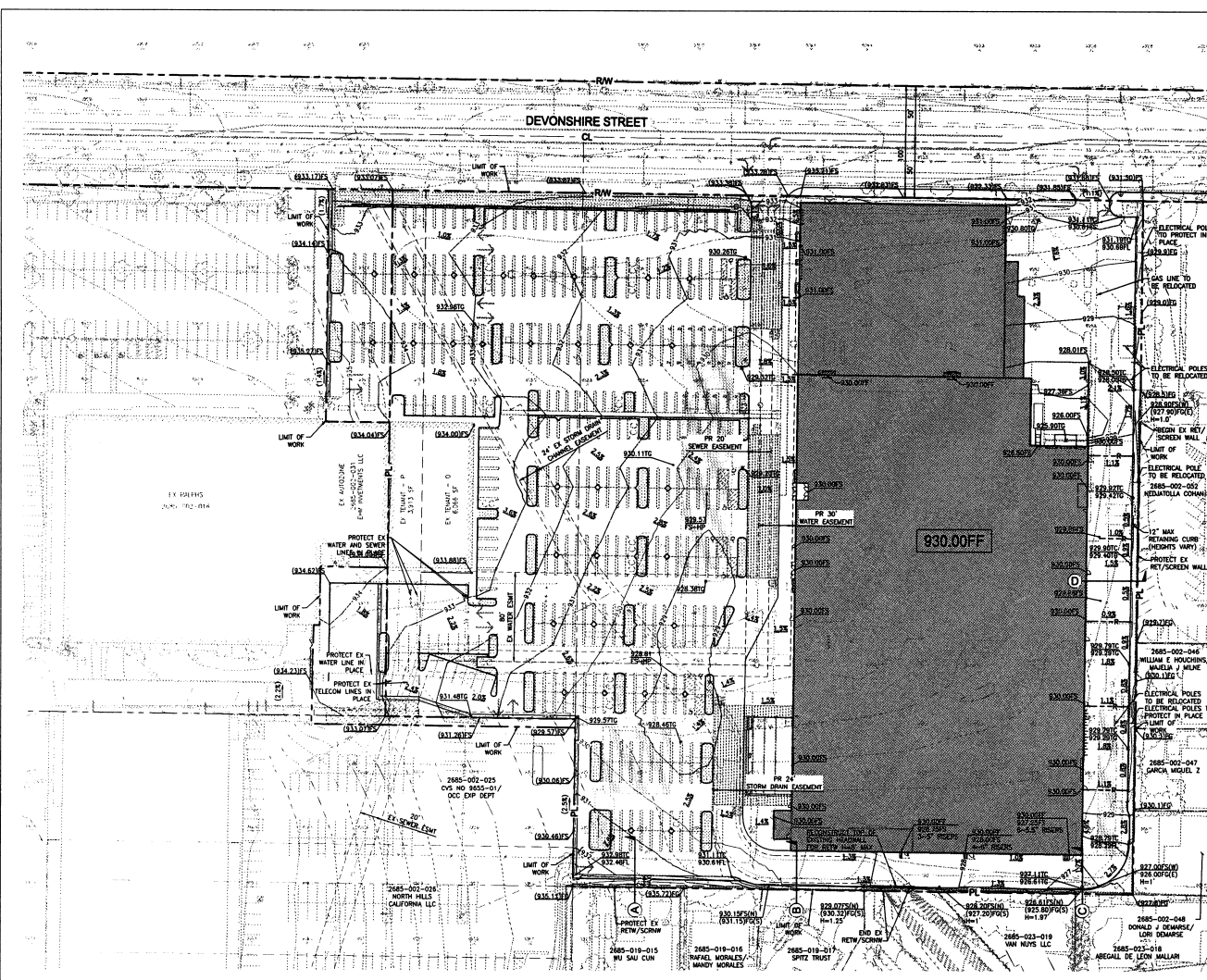
**BUILDING DESIGN PRESENTATION**  
**GRANADA HILLS, CA**  
 03 . 07 . 2024



**THE HOME DEPOT**  
**GRANADA HILLS, CA**  
 SEC DEVONSHIRE & BALBOA  
 GRANADA HILLS, CA 91344

DRAWING ISSUE DATE 04.05.2024  
 HD SITE SELECTION NUMBER SS-02752.2003

**C-3 COLOR ELEV.**



**SITE LEGEND**

- LIMIT OF WORK LINE
- PROPERTY / RIGHT OF WAY LINE
- CENTERLINE
- EASEMENT LINE
- LOT LINES

**GRADING LEGEND**

- 15 PROPOSED MAJOR CONTOURS
- 15 EXISTING CONTOUR
- R RIDGE
- GB GRADE BREAK
- FLW LINE FLOW LINE
- FLW LINE DIRECTION
- SAWCUT
- RETAINING WALL
- (100.00)FS EXISTING ELEVATION
- (100.00)FS PROPOSED ELEVATION
- 0.0% SURFACE SLOPE

**ABBREVIATIONS**

- |                     |                    |
|---------------------|--------------------|
| AC ASPHALT CONCRETE | HP HIGH POINT      |
| CB CATCH BASIN      | HW HW              |
| CL CENTER LINE      | INT NOT TO SCALE   |
| CY CUBIC YARD       | HTS PROPERTY LINE  |
| EL ELEVATION        | PR PROPOSED        |
| EM EASEMENT         | R RIDGE            |
| EX EXISTING         | R/W RIGHT-OF-WAY   |
| FD FINISHED GRADE   | R/W RETAINING WALL |
| FLW FLOW LINE       | SC SCREEN WALL     |
| FS FINISHED SURFACE | TC TOP OF CURB     |
| GB GRADE BREAK      | TG TOP OF GRADE    |
| H HEIGHT RETAINING  | TP TYPICAL         |

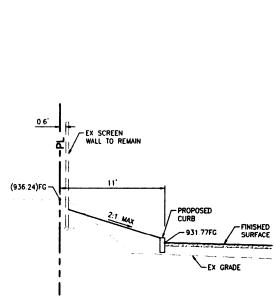
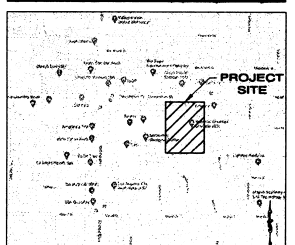
**EARTHWORK VOLUME ANALYSIS**

DESCRIPTION	CUT (CY)	FILL (CY)	NET (CY)	DISPOSITION
RAW	10,700	10,400	300	---
OVER-EX	---	---	---	---
SHRINKAGE	---	---	---	---
<b>NET TOTAL</b>	<b>10,700</b>	<b>10,400</b>	<b>300</b>	<b>EXPORT</b>

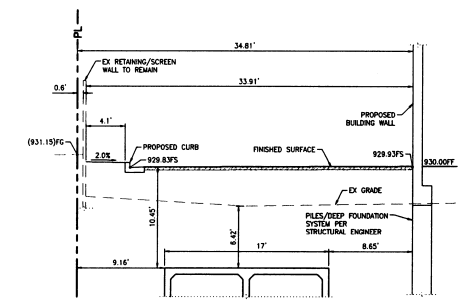
- EARTHWORK QUANTITIES SHOWN ABOVE ARE FOR PERMIT ESTIMATE PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL QUANTITIES PRIOR TO BIDDING AND CONSTRUCTION.
- ALL PROJECT SITE PREPARATION ACTIVITIES SHALL FOLLOW THE REQUIREMENTS SPECIFIED BY GEOTECHNICAL EVALUATION PREPARED BY NINYO MOORE DATED 08/11/2023.
- QUANTITIES DO NOT TAKE INTO ACCOUNT SPILLS FROM UTILITIES.
- PRELIMINARY EARTHWORK CALCULATIONS EXCLUDE THE FOLLOWING:
  - OVER-EXCAVATION PER GEOTECHNICAL RECOMMENDATIONS
  - SHRINK/SWELL PER GEOTECHNICAL RECOMMENDATIONS
  - REMEDIAL GRADING PER GEOTECHNICAL RECOMMENDATIONS
  - EXCAVATION FOR DETENTION SYSTEMS
  - PROPOSED RETAINING WALLS
  - SOIL CULVERT RECONSTRUCTION
  - EXISTING AND PROPOSED FOUNDATION EXCAVATION



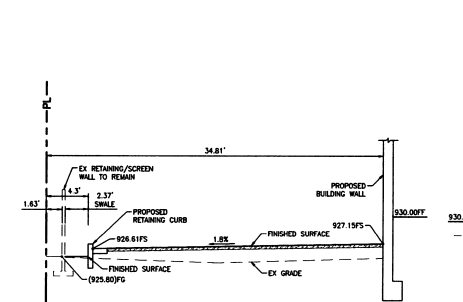
**LARS ANDERSEN & ASSOCIATES, INC.**  
 CIVIL ENGINEERS - LAND SURVEYORS - PLANNERS  
 4694 WEST JACQUELIN AVENUE - FRESNO, CALIFORNIA 93722  
 TEL: 559 276-7700 FAX: 559 276-6850 WWW.LARSANDERSEN.COM



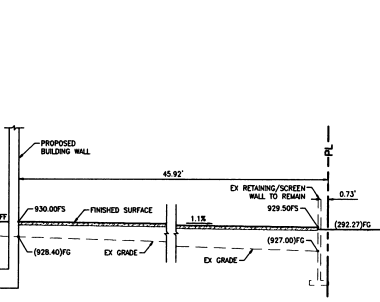
**SECTION A**  
SCALE 1"=8'



**SECTION B**  
SCALE 1"=8'



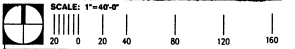
**SECTION C**  
SCALE 1"=8'



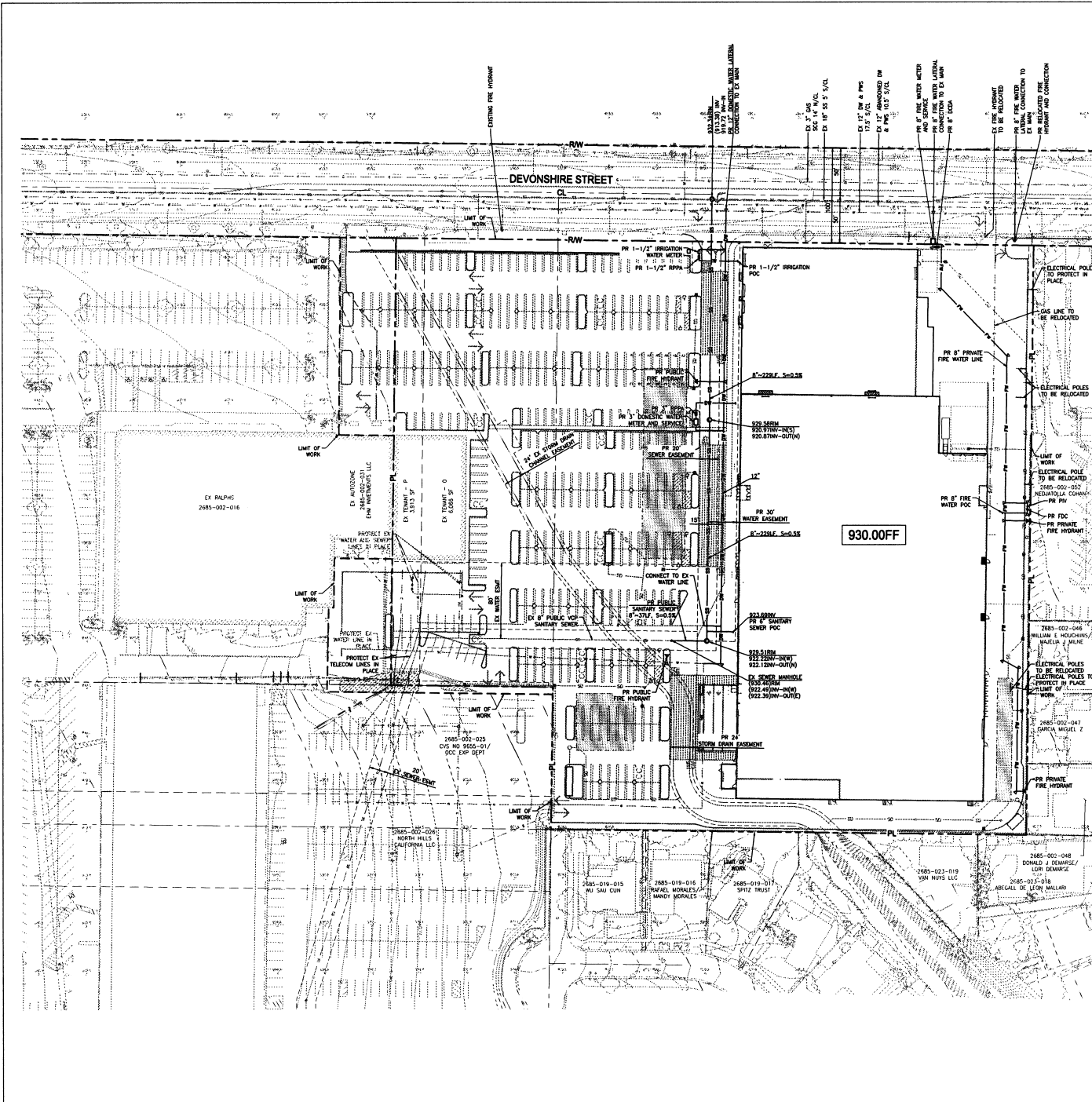
**SECTION D**  
SCALE 1"=8'

**THE HOME DEPOT**  
**GRANADA HILLS, CA**  
 SEC DEVONSHIRE & BALBOA  
 GRANADA HILLS, CA 91344

DRAWING ISSUE DATE: 01.11.2024  
 HD SITE SELECTION NUMBER: SS-02752.2003



**CB - GRADING PLAN**



**SITE LEGEND**

- LIMIT OF WORK LINE
- PROPERTY / RIGHT OF WAY LINE
- CENTERLINE
- EASEMENT LINE
- LOT LINES
- /// UTILITY TO BE DEMOLISHED

**UTILITY LINETYPES LEGEND**

- PR --- PROPOSED DOMESTIC WATER
- FW --- PROPOSED FIRE WATER
- SD --- PROPOSED STORM DRAIN
- SS --- PROPOSED SANITARY SEWER
- IR --- PROPOSED IRRIGATION WATER
- SD --- EXISTING STORM DRAIN
- SS --- EXISTING SEWER
- ED --- EXISTING DOMESTIC WATER
- EG --- EXISTING NATURAL GAS
- EE --- EXISTING ELECTRICAL

**ABBREVIATIONS**

- CL --- CENTER LINE
- DDA --- DOUBLE CHECK DETECTOR BACKFLOW ASSEMBLY
- DM --- DOMESTIC WATER
- EL --- ELEVATION
- EX --- EXISTING
- LF --- LINEAR FEET
- FDC --- FIRE DEPARTMENT CONNECTION
- FG --- FINISH GRADE
- FL --- FLOW LINE
- IL --- INVERT
- IV --- ROOT INDICATOR VALVE
- PL --- POINT OF CONNECTION
- PL --- PROPERTY LINE
- PR --- PROPOSED REDUCED PRESSURE PRINCIPAL BACKFLOW ASSEMBLY
- R/W --- RIGHT-OF-WAY
- SG --- SOCIAL GAS
- SS --- SANITARY SEWER
- TC --- TOP OF CURB
- TG --- TOP OF GATE
- TY --- TYPICAL
- VCP --- VITRIFIED CLAY PIPE

**FUSCOE**  
CONSULTANTS

**MG2**

**LARS ANDERSEN & ASSOCIATES, INC.**  
CIVIL ENGINEERS - LAND SURVEYORS - PLANNERS  
1684 WEST JACOBSON AVENUE - FRESNO, CALIFORNIA 93722  
TEL: 559 278-2700 FAX: 559 278-2580 WWW.LARSANDERSEN.COM

LA PROJECT NO. 21003

**PROJECT SITE**

**LOCATION MAP (NTS)**

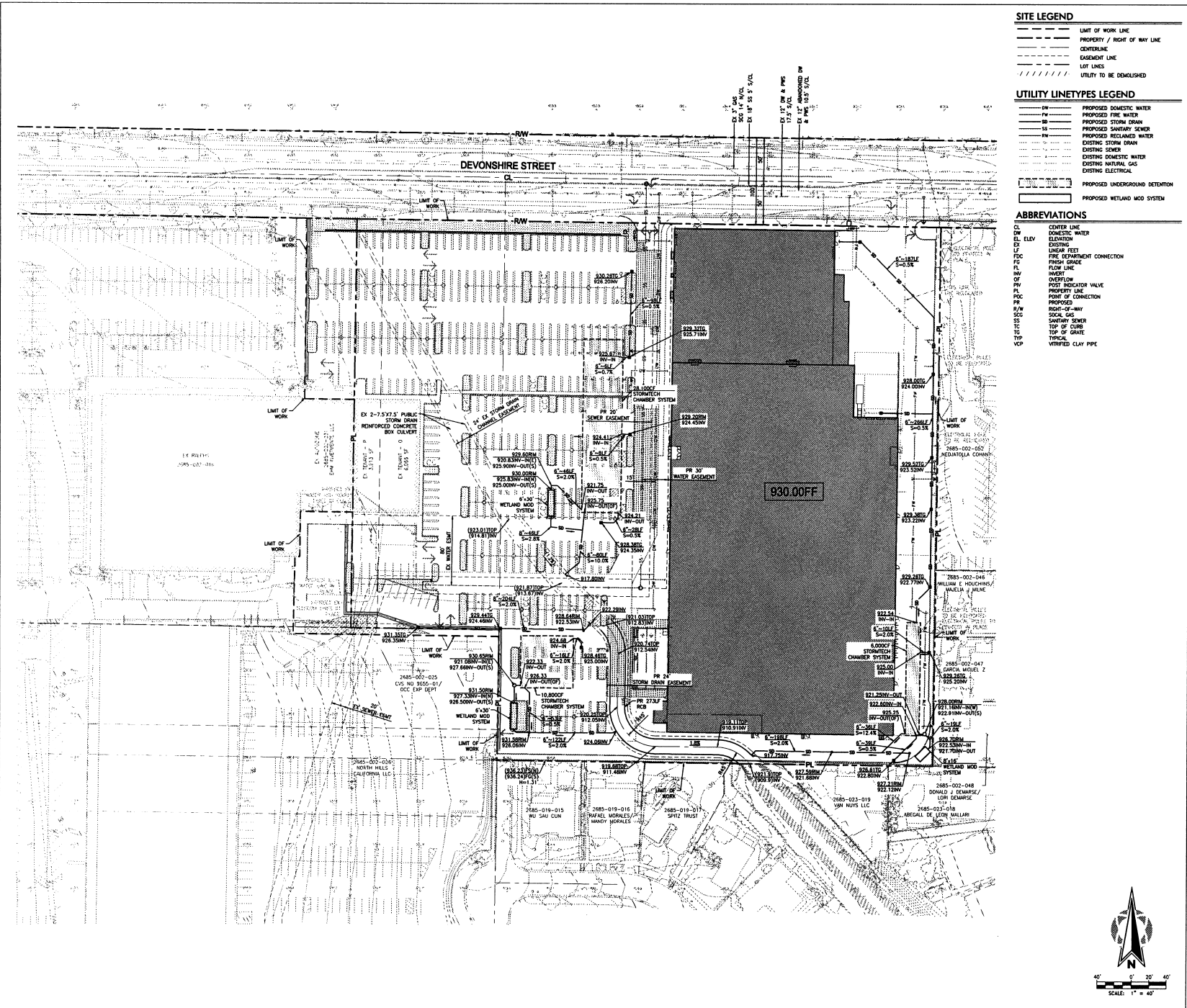


**THE HOME DEPOT**  
GRANADA HILLS, CA  
SEC DEVONSHIRE & BALBOA  
GRANADA HILLS, CA 91344

DRAWING ISSUE DATE: 01.11.2024  
HD SITE SELECTION NUMBER: SS-02752.2003

SCALE: 1" = 40'-0"  
0 20 40 80 120 160

**CC1 - SEWER AND WATER PLAN**



- SITE LEGEND**
- LIMIT OF WORK LINE
  - - - - - PROPERTY / RIGHT OF WAY LINE
  - CENTERLINE
  - - - - - EASEMENT LINE
  - LOT LINES
  - UTILITY TO BE DEMOLISHED
- UTILITY LINETYPES LEGEND**
- PROPOSED DOMESTIC WATER
  - PROPOSED FIRE WATER
  - PROPOSED STORM DRAIN
  - PROPOSED SANITARY SEWER
  - PROPOSED RECLAIMED WATER
  - EXISTING STORM DRAIN
  - EXISTING SEWER
  - EXISTING DOMESTIC WATER
  - EXISTING NATURAL GAS
  - EXISTING ELECTRICAL
  - PROPOSED UNDERGROUND DETENTION
  - PROPOSED WETLAND MOD SYSTEM

- ABBREVIATIONS**
- CL CENTER LINE
  - EL ELEVATION
  - LF LINEAR FEET
  - FC FIRE DEPARTMENT CONNECTION
  - FG FINISH GRADE
  - FL FLOW LINE
  - OV OVERFLOW
  - IN INVERT
  - PI POST INDICATOR VALVE
  - PL PROPERTY LINE
  - POC POINT OF CONNECTION
  - PR PROPOSED
  - R/W RIGHT-OF-WAY
  - SS SOCIAL GAS
  - SS SANITARY SEWER
  - TC TOP OF CURB
  - TG TOP OF GRADE
  - TYP TYPICAL
  - VCP VITRIFIED CLAY PIPE

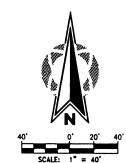
**FUSCOE**  
CONSULTING ENGINEERS

**MG2**

**LARS ANDERSEN & ASSOCIATES, INC.**  
CIVIL ENGINEERS - LAND SURVEYORS - PLANNERS  
4694 WEST JACQUELYN AVENUE - FRESNO, CALIFORNIA 93722  
TEL: 509 278-7700 FAX: 509 278-0850 WWW.LARSANDERSEN.COM

LA PROJECT NO. 21003

**LOCATION MAP (NTS)**

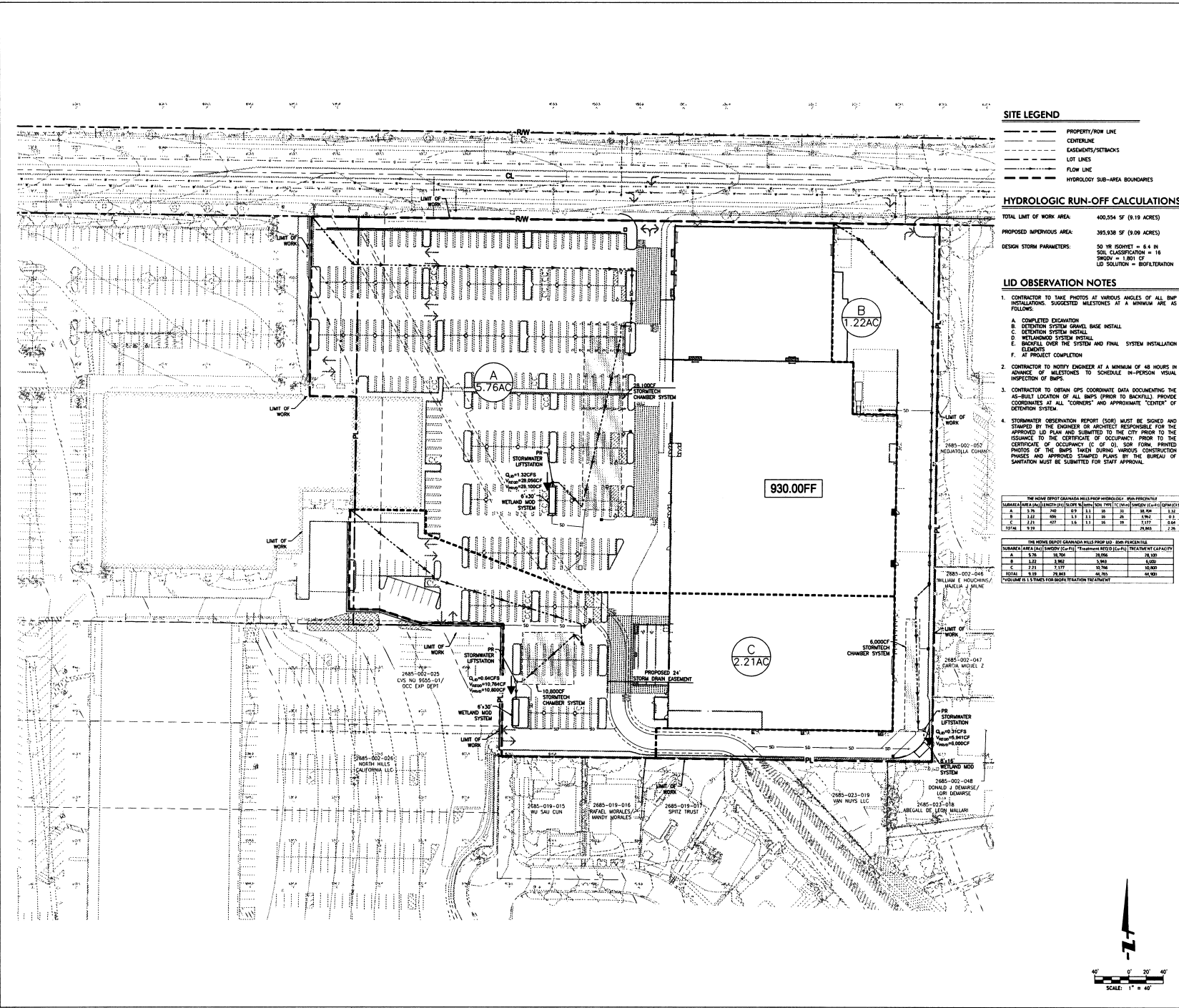


**THE HOME DEPOT**  
GRANADA HILLS, CA  
SEC DEVONSHIRE & BALBOA  
GRANADA HILLS, CA 91344

DRAWING ISSUE DATE: 01.11.2024  
HD SITE SELECTION NUMBER: SS-02752.2003

SCALE: 1"=40'-0"

**CC-2 - STORM DRAIN PLAN**



**SITE LEGEND**

- PROPERTY/RW LINE
- CENTERLINE
- EASEMENTS/STREETS
- LOT LINES
- FLOW LINE
- HYDROLOGY SUB-AREA BOUNDARIES

**HYDROLOGIC RUN-OFF CALCULATIONS**

TOTAL LIMIT OF WORK AREA: 400,554 SF (9.19 ACRES)  
 PROPOSED IMPERVIOUS AREA: 395,938 SF (9.09 ACRES)  
 DESIGN STORM PARAMETERS: 50 YR ISOHET = 6.4 IN  
 SOIL CLASSIFICATION = 18  
 SWDOW = 1.801 CF  
 LID SOLUTION = BIOFILTRATION

**LID OBSERVATION NOTES**

1. CONTRACTOR TO TAKE PHOTOS AT VARIOUS ANGLES OF ALL BMP INSTALLATIONS. SUGGESTED MILESTONES AT A MINIMUM ARE AS FOLLOWS:
  - A. COMPLETED DITCHWORK
  - B. DETENTION SYSTEM GRAVEL BASE INSTALL
  - C. DETENTION SYSTEM INSTALL
  - D. WETLAND MOD SYSTEM INSTALL
  - E. BACKFILL OVER THE SYSTEM AND FINAL SYSTEM INSTALLATION ELEMENTS
  - F. AT PROJECT COMPLETION
2. CONTRACTOR TO NOTIFY ENGINEER AT A MINIMUM OF 48 HOURS IN ADVANCE OF MILESTONES TO SCHEDULE IN-PERSON VISUAL INSPECTION OF BMPs.
3. CONTRACTOR TO OBTAIN GPS COORDINATE DATA DOCUMENTING THE AS-BUILT LOCATION OF ALL BMPs (PRIOR TO BACKFILL). PROVIDE COORDINATES AT ALL "CORNERS" AND APPROXIMATE "CENTER" OF DETENTION SYSTEM.
4. STORMWATER OBSERVATION REPORT (SOR) MUST BE SIGNED AND STAMPED BY THE ENGINEER OR ARCHITECT RESPONSIBLE FOR THE APPROVED LID PLAN AND SUBMITTED TO THE CITY PRIOR TO THE ISSUANCE OF THE CERTIFICATE OF OCCUPANCY (C of O). SOE FORM-PRINTED PHOTOS OF THE BMPs TAKEN DURING VARIOUS CONSTRUCTION PHASES AND APPROVED STAMPED PLANS BY THE BUREAU OF SANITATION MUST BE SUBMITTED FOR STAFF APPROVAL.

THE HOME DEPOT GRANADA HILLS PROP LID BMP PERCENTAGE							
SUBAREA (AC)	LENGTH (FT)	SLOPE (FT/100)	SOIL TYPE (C)	INCHES	PERCENT	QUALITY	
A	9.25	7.82	0.9	2.11	18	25.00	3.22
B	3.27	6.00	1.3	1.1	16	5.92	0.3
C	2.21	4.57	1.6	1.11	18	2.377	0.48
TOTAL	9.53					33.896	2.28

THE HOME DEPOT GRANADA HILLS PROP LID BMP PERCENTAGE			
SUBAREA (AC)	LENGTH (FT)	PERCENTAGE (C of P)	PERCENTAGE CAPACITY
A	9.25	9.70	39.06
B	3.27	3.42	5.00
C	2.21	2.377	9.78
TOTAL	9.53	15.496	64.83

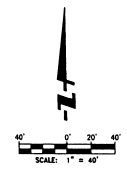
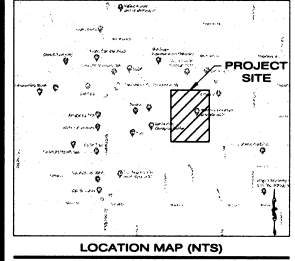
INCLUDE 5% STRIPES FOR BIODIVERSITY BENEFIT

**FUSCOE**  
 CONSULTANTS

**MG2**

**LARS ANDERSEN & ASSOCIATES, INC.**  
 CIVIL ENGINEERS - LAND SURVEYORS - PLANNERS  
 4684 WEST JACQUELYN AVENUE - FRESNO, CALIFORNIA 93722  
 TEL: 569 276-2700 FAX: 569 276-1985 WWW.LARSANDERSEN.COM

LA PROJECT NO. 21003



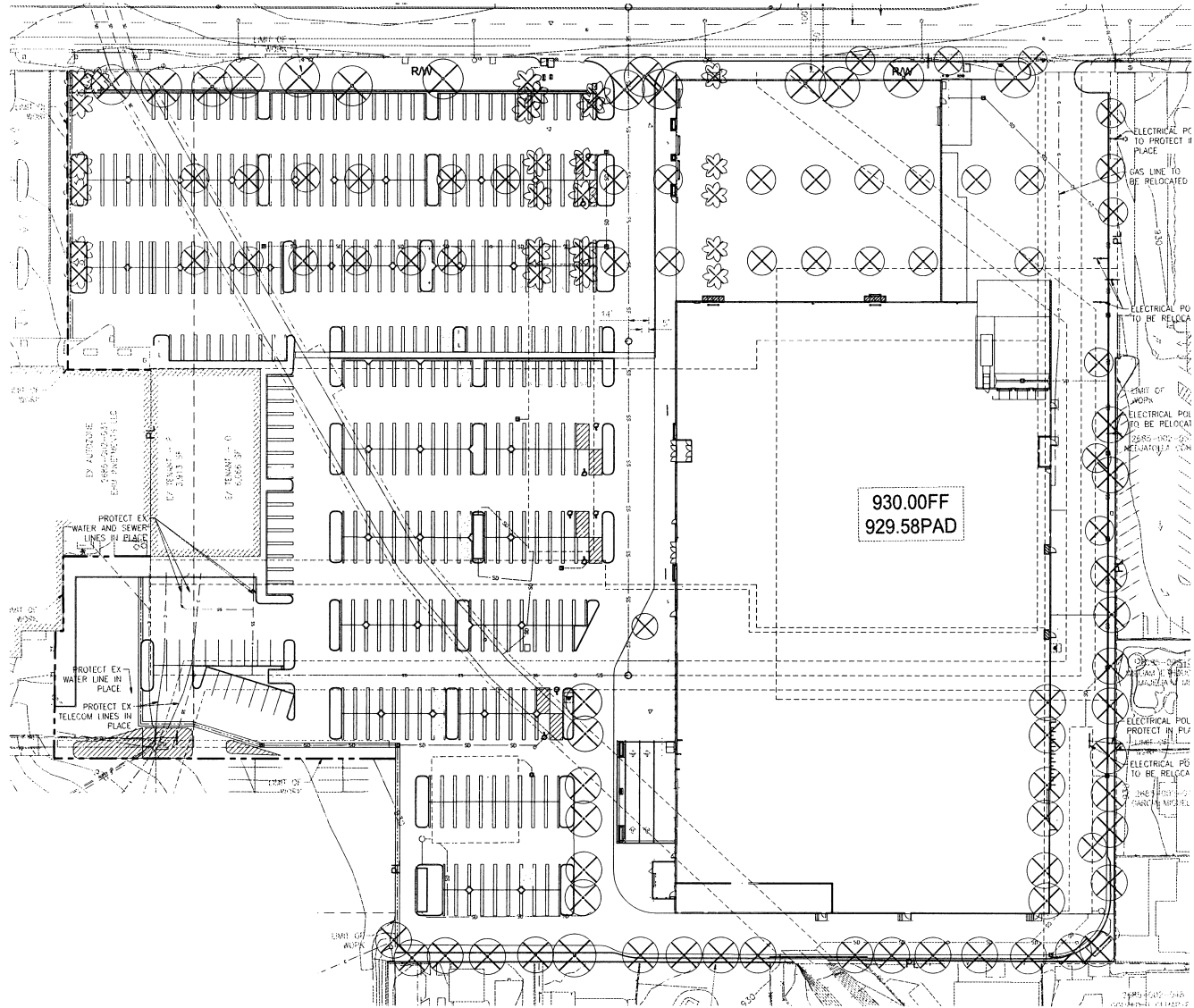
**THE HOME DEPOT**  
**GRANADA HILLS, CA**  
 SEC DEVONSHIRE & BALBOA  
 GRANADA HILLS, CA 91344

DRAWING ISSUE DATE: 01/11/2024  
 HD SITE SELECTION NUMBER: SS-02752.2003

SCALE: 1" = 40'-0"

**CD - LID PLAN**





TREE REMOVAL SCHEDULE

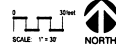
SYMBOL	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT. SIZE
<b>STREET TREES</b>					
X		3	Lagerströmia indica	Crape Myrtle	Existing to be Removed
<b>TREES TO BE REMOVED</b>					
RA		5	Avicennia romanocoffmanii	Queen Palm Multi Trunk	Existing to be Removed
XS		1	Chorisia speciosa	Silk Floss Tree	Existing to be Removed
XL		34	Lagerströmia indica Purple Tower	Purple Tower Crape Myrtle	Existing to be Removed
XP		25	Podocarpus grandis	Fern Pine	Existing to be Removed
XT		14	Tabebuia impatiens	Pink Trumpet Tree	Existing to be Removed
TT		1	Tiptuna sp.	Tipi Tree	Existing to be Removed
UD		13	Ulmus parvifolia Drake	Drake Lacebark Elm	Existing to be Removed
RF		13	Washingtonia filifera	California Fan Palm	Existing to be Removed
RW		7	Washingtonia robusta	Mexican Fan Palm	Existing to be Removed

I agree to comply with the requirements of the water efficient landscaping ordinance and submit a complete Landscape Designation Report.

*Robert L. Curley*  
Robert L. Curley, RLA

A minimum 3-inch layer of mulch shall be applied on all exposed soil surfaces of planting areas except turf areas, creeping or rooting groundcovers, or direct seeding applications where mulch is contraindicated.

For soils less than 6% organic matter in the top 8 inches of soil, compost at a rate of a minimum of four cubic yards per 1,000 square feet of permeable area shall be incorporated to a depth of six inches into the soil.



landscape architect  
**CUNNINGHAM**  
CUNNINGHAM LANDSCAPE ARCHITECTS  
L.A. 1700 Pacific Coast Highway, Suite C  
Santa Monica, California 90404  
562.310.1100  
www.cunninghamla.com

project no 23-10298

OWNER



THE HOME DEPOT  
2488 PACES FERRY ROAD, C-19  
ATLANTA, GA 30338-0428  
PHONE: (770) 433-8211

project info  
GRANADA HILLS, CA  
SEC 000000000000 & BALBOA  
GRANADA HILLS, CA 91344  
STORE: 0000

submittal dates

submittal:	01.09.24
PERMIT:	000000
CONSTRUCTION:	000000
REVISIONS:	date

designed by: RC  
checked by: RC



03.21.24

TREE REMOVAL PLAN

L1.00

I agree to comply with the requirements of the water efficient landscaping ordinance and submit a complete landscape plan.

**Robert L. Curley**  
Landscape Architect

A minimum 2-inch layer of mulch shall be applied on all exposed soil surfaces of planting areas except turf areas, creeping or rooting groundcovers, or direct seeding applications where mulch is contraindicated.

For soils less than 6% organic matter in the top 6 inches of soil, compost at a rate of a minimum of four cubic yards per 1,000 square feet of permeable area shall be incorporated to a depth of six inches into the soil.

LANDSCAPE ORDINANCE POINTS			
TOTAL SQ. FOOTAGE OF SITE:	300,530	sq	FROM GUIDELINES O
TOTAL NUMBER OF POINTS REQUIRED FOR SITE:	156		

DETAIL OF POINTS		POINTS CLAIMED	
A	GROUPING OF STREET TREES IN PLANTING AREAS:	2	
B	30" BOX STREET TREES:	15	
C	FREE FLOWERING STREET TREES:	5	
D	HANDICAP ACCESSIBLE TO STREET:	5	
E	VINES ON WALL:	18	
F	100% CALIFORNIA NATIVES:	78	
G	TREE TAXON THAT DOES NOT EXIST WITHIN A 1000'	39	
		<b>189</b>	<b>TOTAL POINTS</b>

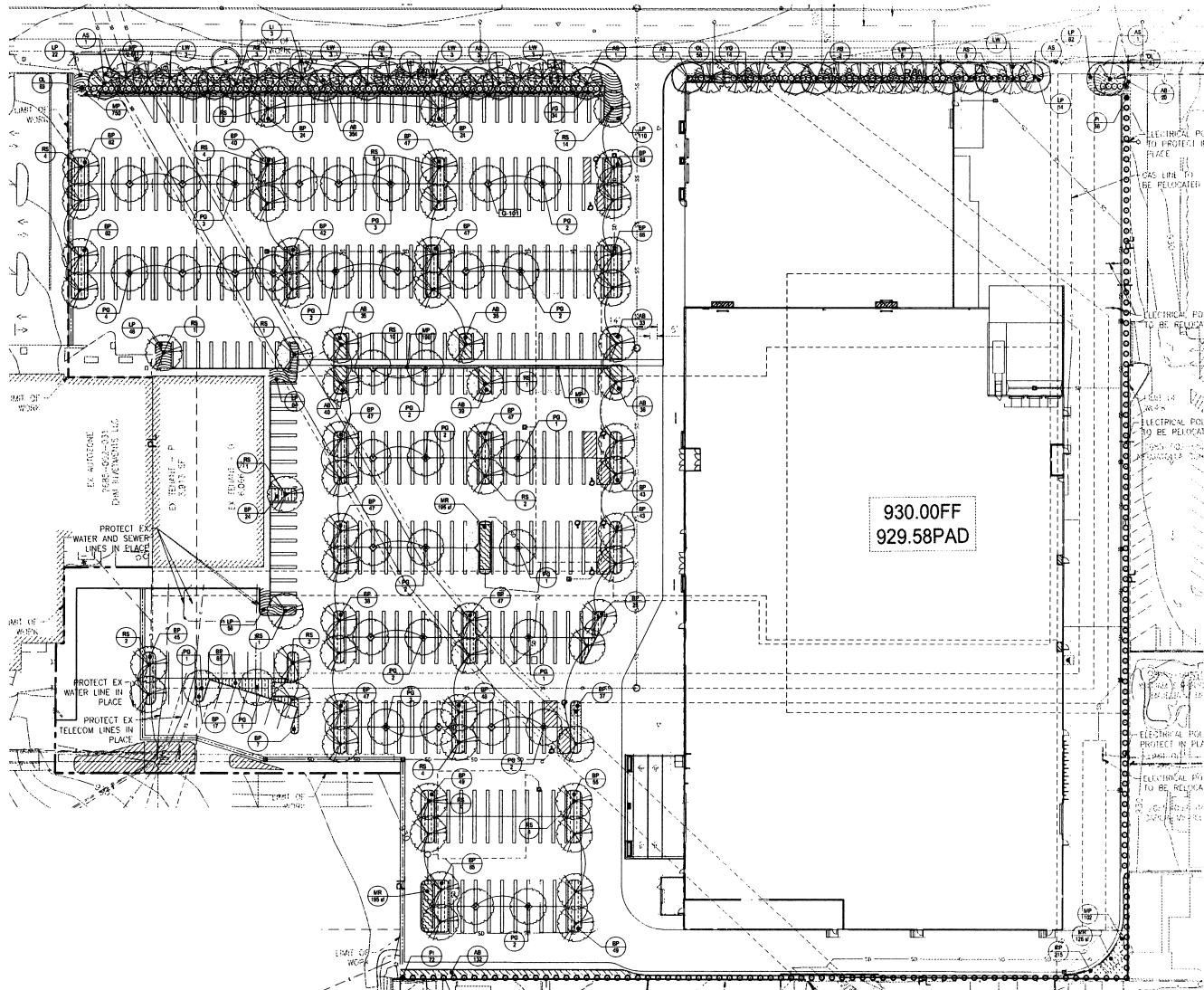
WATER MANAGEMENT POINTS			
TOTAL SQUARE FOOTAGE OF PROJECT SITE:	300,530		
TOTAL NUMBER OF POINTS REQUIRED FOR SITE:	2,093		FROM GUIDELINES AA

DETAIL OF POINTS		POINTS CLAIMED	SHEET
1	DRIP/LOW PRECIPITATION HEADS:	115	L-2.0
2	LAWN AREA OR SWIMMING POOLS 0% - 15% OF LA:	5	L-1.1
3	AUTOMATIC CONTROLLER:	5	L-2.0
4	RAIN MEASURING DEVICE/SMART CONTROLLER:	10	L-2.0
5	EXCESS FLOW METER:	2	L-2.0
6	LANDSCAPE IRRIGATION WATER METER:	521	L-2.0
7	GROUND COVER (MONTHLY SUMMER WATER ONLY):	159	L-1.1
8	PLANTS (MONTHLY SUMMER WATER ONLY):	1989	L-1.1
		<b>2818</b>	<b>TOTAL POINTS</b>

**PARKING CALCULATIONS:**

PARKING LOT AREA:	175,704 SF
LANDSCAPE AREA REQ:	17,570 SF
LANDSCAPE AREA PROVIDED:	19,209 SF

TREES:  
411 STALLS  
1 TREE PER 4 STALLS REQUIRED  
411 / 4 = 103 TREES REQUIRED. 137 TREES PROVIDED.



**PLANT SCHEDULE**

SYMBOL	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT. SIZE	CAL	SPEC.	HZ	WUCOLS
<b>TREES</b>									
[A]	AS	19	Arbutus unedo From Appendix B Preferred Plant List	Strawberry Tree	15 Gal Standard	1.25" Cal	6' Ht.	2	L 10-30%
[B]	LW	21	Lagerstroemia x 'Natchez' From Appendix B Preferred Plant List	White Crapemyrtle Multi Trunk	15 Gal Standard	1.25" Cal	7' 0" x 3' 4"	3	M 40-60%
[C]	PG	35	Photographa grandiflora From Appendix B Preferred Plant List	Fern Pine	24" Box Standard	1.5" Cal	7' 0" x 3' 4"	3	M 40-60%
[D]	RS	62	Rhus typhina From Appendix B Preferred Plant List	Alhambra Sumac	24" Box Standard	2" Cal	7' 0" x 3' 4"	2	L 10-30%
[E]	LI	3	Lagerstroemia indica	Crape Myrtle	30" Box	2.5" Cal	10' 12" x 8' 10"	M 40-60%	
[F]	EL	1	Lagerstroemia indica	Crape Myrtle	Existing to Remain				
<b>SHRUBS</b>									
[G]	OL	150	Olea europaea 'Little Olio' TM	Little Olio Olive	5 gal		48" oc	1	L 10-30%
[H]	PI	156	Prunus dulcis	Hollyhock Cherry	15 Gal Column		48" oc	1	L 10-30%
[I]	VG	48	Vitis girdiana	Desert Wild Grape	1 Gal		10" oc	1	L 10-30%
[J]	AS	2,768 sf	Argemone x 'Big Red'	Big Red Kangaroo Paw	5 Gal		24" on center	1	L 0.2 PF 24" oc
[K]	BP	8,028 sf	Baccharis glauca 'Twin Peaks'	Twin Peaks Coyote Bush	5 gal		30" on center	1	L 10-30% 30" oc
[L]	LP	1,432 sf	Lantana montevideensis	Trelling Lantana	1 Gal		34" on center	1	L 0.2 PF 24" oc
[M]	MS	418 sf	Muhlenbergia clivata	Blue Grass	1 Gal		36" on center	1	M 40-60%

**PLANT SCHEDULE**

SYMBOL	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT. SIZE	SPACINGS	HZ	WUCOLS	SPACINGS	REMARKS	
[N]	OP	43	Ornithoglossum parvifolium	Trailing Myosotis	Plugs		9" oc	1	L 10-30%	9" oc	From Appendix B Preferred Plant List

**PLANT SCHEDULE**

SYMBOL	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT.	SPACINGS	HZ	WUCOLS	SPACINGS	REMARKS	
[O]	MP	43	Myosotis parvifolium	Trailing Myosotis	Plugs		9" oc	1	L 10-30%	9" oc	From Appendix B Preferred Plant List

**NON-LIVING GROUND COVER SCHEDULE**

SYMBOL	DESCRIPTION	QTY
[P]	Apache Brown 1" minus Gravel Mulch, 3" layer	288 sf
[Q]	Decorative Rock Solutions 800-859-1878	
[R]	Typical all tree soils	

**BIO-FILTRATION AREAS**

[S]	MS	418 sf	Muhlenbergia clivata	Blue Grass	1 Gal		36" on center	1	M 40-60%
-----	----	--------	----------------------	------------	-------	--	---------------	---	----------

landscape architect  
**COOK INC.**  
L.A. 1700 Pacific Coast Highway, Suite C  
Santa Monica, California 90404  
562-318-1222  
www.cookinc.com

project no 23-10298

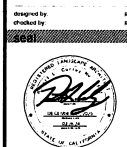
DATE:



THE HOME DEPOT  
2455 PACES FERRY ROAD, C-19  
ATLANTA, GA 30339-4024  
PHONE: (770) 433-8211

GRANDDA HILLS CA  
SEC DEVONSHIRE & BALEDA  
GRANDDA HILLS CA 91344  
STORE 0000

DATE	DESCRIPTION	BY
01/09/24	Submission	000000
00/00/00	Revise	000000
00/00/00	Construction	000000
00/00/00	As Shown	000000



03/26/24

SHEET INFO

PLANTING PLAN

**L1.01**



**GENERAL PLANTING NOTES**

1. Installer shall be responsible for making himself familiar with all underground utilities, pipes and structures. Installer shall take sole responsibility for any cost incurred due to damage of said utilities.
2. The installer shall make himself familiar with all local, regional, County, State and Federal regulations, requirements etc. in effect as to the transport, import, delivery and installation of all plant materials specified on the plans. It is strongly recommended to source plant materials from local nurseries that are also familiar with the requirements for growing, supplying and transporting plants into the area of the project.
3. Installer shall not willfully proceed with construction as designed when it is obvious that unknown obstructions and/or grade differences exist that may not have been known during design.
4. Installer shall have soils tested by a qualified agronomy laboratory. Materials and timing of soil amendments, fertilizers, and back fill for planting pits shall be in accordance with recommendations of the soils agronomy report.
5. The installer shall secure all plant material for the project upon award of contract but in no instances less than 120 days prior to installation.
6. All plant material shall be approved by the Landscape Architect, Owner or Owner's representative prior to installation.
7. Final location of all plant material shall be subject to the approval of the Construction Manager.
8. See details for staking method and plant pit dimensions.
9. If conflicts arise between size of areas and plans, installer to contact Construction Manager for resolution. Failure to make such conflicts known to the Construction Manager will result in Installer's liability to relocate the materials.
10. All ground covers to be held back 4" from edges of new shrubs typical and 2" from back of curbs or edge of walks at time of planting.
11. Ground covers shall be triangularly spaced per detail.
12. Trees shall be located minimum 4" from walls, overhead, walks, headers and other trees within the project, unless otherwise shown.
13. Place Deep Root Barrier at new trees that are with in 5' of Curbs or paving unless noted otherwise on the plans. Deep Root model UB 24" see installation detail.
14. Separate all ground cover /shrub, areas from lawn, rock or Decomposed Granite areas with headers as per the installation details.
15. All slopes greater than 3:1 in shrub areas shall be covered jute mesh to prevent soil erosion during plant establishment
16. Remove stakes and trellis from vines and espaliers and secure to walls, fences and posts as per detail
17. In all cases "Root Bound" plant material will not be accepted.
18. No trees are to be planted within or above site storm drain pipes, swales or retention basins.
19. Separate all ground cover and shrub areas from lawn areas with headers as per the installation details. If no detail is present use Permaco CleanLine Aluminum edging, 2" x 4", Mill finish.
20. 15. Separate all shrub areas and lawn areas from area of rock or Decomposed Granite with headers as per the installation details. If no detail is present use Permaco CleanLine Aluminum edging, 2" x 4", Mill finish.
21. All planting areas including pots irrigated with drip irrigation or low volume irrigation components shall be hand watered by the installer until plant materials root zones have established enough to effectively access the irrigation water from the drip systems.
22. Planting areas (except lawn and hydroseeded areas as well as areas of Decomposed Granite, to be top dressed with 2" (inch) min, layer of mulch Agromin ES-2 or equal. Agromin (800)247-6646

**23. Suitable Soil Import**

- a. General - Topsoil shall be free of roots, clods, stones larger than 1-inch in the greatest dimension, pockets of coarse sand, noxious weeds, sticks, lumber, brush and other litter. It shall not be infested with nematodes or other undesirable disease-causing organisms such as insects and plant pathogens
- b. Topsoil shall be friable and have sufficient structure in order to give good tilth and aeration to the soil.
- c. Gradation limits - soil shall be a sandy loam. The definition of soil texture shall be the USDA classification scheme cited below. Gravel over 2 millimeters in diameter shall be less than 20% by weight
- d. Permeability Rate - Hydraulic conductivity rate shall be not less than one inch per hour nor more than 10 inches per hour when tested in accordance with the USDA Handbook Number 60, method 34b or other approved methods.
- e. Fertility - The range of the essential elemental concentration in soil shall be as follows for approval of source soil:

Ammonium Bicarbonate/DTPA Extraction	
parts per million (mg/Kilogram dry weight basis)	
phosphorus	10 - 40
potassium	100 - 220
iron	5 - 35
manganese	0.6 - 6
zinc	1 - 8
copper	0.3 - 5
boron	0.2 - 1
magnesium	50 - 150
sodium	0 - 100
sulfur	25 - 500
molybdenum	0.1 - 2

- f. Acidity - The soil pH range measured in the saturation extract (Method 21a, USDA Handbook Number 60) shall be 6.0 - 7.9.
- g. Salinity - The salinity range measured in the saturation extract (Method 3a, USDA Handbook Number 60) shall be 0.5 - 2.5 dS/m.
- h. Chloride - The maximum concentration of soluble chloride in the saturation extract (Method 3a, USDA Handbook Number 60) shall be 150 mg/l (parts per million).
- i. Boron - The maximum concentration of soluble boron in the saturation extract (Method 3a, USDA Handbook Number 60) shall be 1 mg/l (parts per million).
- j. Sodium Adsorption Ratio (SAR) - The maximum SAR shall be 3 measured per Method 20b, USDA Handbook Number 60.
- k. Aluminum - Available aluminum measured with the Ammonium Bicarbonate/DTPA Extraction shall be less than 3 parts per million.
- l. Soil Organic Matter Content - Sufficient soil organic matter shall be present to impart good physical soil properties but not be excessive to cause toxicity or cause excessive reduction in the volume of soil due to decomposition of organic matter. The desirable range is 3% to 5%. The carbon:nitrogen ratio should be about 10.
- m. Calcium Carbonate Content - Free calcium carbonate (limonite) shall not be present for acid-loving plants.
- n. Heavy Metals - The maximum permissible elemental concentration in the soil shall not exceed the following concentrations:

Ammonium Bicarbonate/DTPA Extraction	
parts per million (mg/Kilogram dry weight basis)	
arsenic	1
cadmium	1
chromium	10
cobalt	2
lead	30
mercury	1
nickel	5
selenium	3
silver	0.5
vanadium	3

- o. If the soil pH is between 6 and 7, the maximum permissible elemental concentration shall be reduced 50%. If the soil pH is less than 6.0, the maximum permissible elemental concentration shall be reduced 75%. No more than three metals shall be present at 50% or more of the above values.

**Phytotoxic constituent, herbicides, hydrocarbons etc.** - Germination and growth of monocots and dicots shall not be restricted more than 10% compared to the reference soil. Growth inhibiting constituents must not be present.

**20. Organic soil amendment**

- a. Composted aerobic humus compost without presence of decomposition products. The organic matter content shall be at least 50% on dry weight basis. Humus material shall have an acid-soluble ash content of no less than 6% and no more than 20%.
- b. The pH of the material shall be between 6 and 7.5.
- c. The salt content shall be less than 6 millimoles/cm<sup>3</sup> @ 25° C. (ECe less than 6) in a saturated paste extract.
- d. Boron content of the saturated extract shall be less than 1.0 part per million.
- e. Silicon content (acid-insoluble ash) shall be less than 50%.
- f. Calcium carbonate shall not be present if to be applied on alkaline soils.
- g. Types of acceptable products are composts, manures, mushroom composts, straw, alfalfa, peat mosses etc. low in salts, low in heavy metals, free from weed seeds, free of pathogens and other deleterious materials.
- h. Composted wood products are conditionally acceptable (stable humus must be present). Wood based products are not acceptable which are based on red wood or cedar.
- i. Sludge-based materials are not acceptable.

- j. Carbon:nitrogen ratio is between 6.0 and 20:1.
- k. SAR (sodium adsorption ratio) less than 5.
- l. Seed germination - over 80% germination in saturation extract diluted 1 to 3 in water compared to seeds germinated in deionized water.
- m. Germination vigor - equal to or better than seed length for seeds germinated in deionized water.
- n. Maturity and stability - Solvita 5 or higher.
- o. Molar ratio of ammoniacal nitrogen to nitrate nitrogen less than 2.
- p. The compost shall be aerobic without malodorous presence of decomposition products.
- q. The maximum particle size shall be 0.5 inch, 80% or more shall pass a No. 4 screen.

Maximum total permissible pollutant concentrations in amendment in parts per million on a dry weight basis:

arsenic	12	copper	100	selenium	20
cadmium	15	lead	100	silver	10
chromium	100	mercury	10	vanadium	50
cobalt	50	zinc	200	molybdenum	20
nickel	100				

20. Decomposed granite (D.G.) - install a 2" (Min.) layer of Decomposed Granite w/ stabilizer continuous, color as per plan, in all planters under all trees and shrubs as indicated. Before placing granite, compact sub-grade to 85% and apply a pre-emergent herbicide to soil. After placing granite: rake smooth, wet to entire depth, allow to dry, then lightly scarify surface with a leaf rake. Apply a secondary application of pre-emergent herbicide to top of granite. Keep top of granite 1" below adjacent walks and curbs. Do not allow granite to touch the trunk of any plant. Install after installation of plant material making note of plant height so they are not buried by D.G.
21. Cactus / Succulent Mix:  
Pumice or Perlite (Approximately 40%)  
Potting Soil Mix (Approximately 15%)  
Clean Washed River Sand (Approximately 10%)  
Loosened Coir (Approximately 35%)
22. All Washingtonia Palms shall be skinned the green fronds above and shall be as per the brown trunk height (BT) as indicated on the planting plan and legend.
23. All Phoenix Palms shall be "Pineapple Cut" skinned and shall be as per the brown trunk height (BT) as indicated on the planting plan and legend and matched to be of equal height in each area of use.
24. Brown Trunk Height "BT" shall mean as measured from the ground line to the base of the heart leaf.
25. All Palms must be certified disease and pest free by a licensed Arborist. Written documentation must be provided prior to planting.

**SOIL TESTS FOR SOIL MANAGEMENT**

1. The Contractor shall be responsible for obtaining soils testing and soil amendment recommendations. Soils testing shall be completed and test results and amendment recommendations submitted to the Owner's Representative a minimum of sixty (60) days before commencement of any planting. The report shall be reviewed approved by the project Landscape Architect and ALL required governing agencies PRIOR to the commencement of any soil amending or planting.
2. The testing laboratory shall be WALLACE LABORATORIES, LLC 365 Crest Circle El Segundo, CA 90245 phone (310) 815-0116 or approved equal as approved by the Owner's Representative, or approved equal as approved by the Owner's Representative.
3. The testing laboratory for soil analysis shall use the following criteria for soil testing: USDA Agricultural Suitability Test per Handbook 60, to include Boron presence and content; and University of California Soil Fertility Test.
4. Interpretations, fertilization and soil amendment recommendations, and comments regarding these tests are required.
5. Infiltration Rate determined by laboratory test or Soil Texture and Infiltration Rate table
6. Soils test sites shall occur not more than 250 feet on center in the planting areas, unless otherwise noted on plans.
7. Samples of all import soil from each source shall also be submitted to the soils testing laboratory for analysis, interpretation and recommendations prior to placement, blending or back-filling.
8. A copy of the plant schedule shall be provided to the lab for review and comment in relation to the results of the soils tests.

**PERCOLATION TEST**

1. The landscape installer shall dig (as test areas) four (4) plant pits of 24" box size, or larger, at four (4) locations minimum within the job site. Pits are to be filled with water. The results of this test shall be reported to the Landscape Architect and owner 48 hours after initiating. Test pits shall be in actual location of trees as shown on the plan. Failure to carry out this test shall make the landscape installer liable for any and all trees that die due to poor water percolation beyond the agreed guarantee period.

**OPTION 1**

Should the water drain out of the test pits at a normal rate indicating good percolation then tree detail "A" and shrub planting detail "A" shall be utilized.

**OPTION 2**

In the event any amount of water is left standing in the test pit (per the above procedure) 24 hours after initiating the percolation test then the vertical mulching details for tree detail "B" and shrub detail "B" shall apply to all trees and shrubs regardless of size. These details shall supersede all other planting details. However, the tree staking requirements of tree planting detail "A" shall remain intact in either case.

I agree to comply with the requirements of the water efficient landscaping plan and submit a complete Landscape Installation Plan

  
Robert L. Curley, PLS

A minimum 3-inch layer of mulch shall be applied on all exposed soil surfaces of planting areas except for areas, sleeping or resting groundcovers, or direct seeding applications where mulch is contraindicated.  
For soils less than 6% organic matter in the top 6 inches of soil, compost at a rate of a minimum of four cubic yards per 1,000 square feet of permeable area shall be incorporated to a depth of six inches into the soil.



project no 23-10298



THE HOME DEPOT  
2468 PACES FERRY ROAD, C-19  
ATLANTA, GA 30339-4024  
PHONE: (770) 433-8211

**PROJECT INFO**

GRANADA HILLS CA  
SEC DOWNSHIRE & BALBOA  
GRANADA HILLS, CA 91341  
STORE: 0000

SUBMITTALS	
submission:	01.29.24
PERMIT:	000000
BID:	000000
CONSTRUCTION:	000000
revisions:	
Δ description:	one

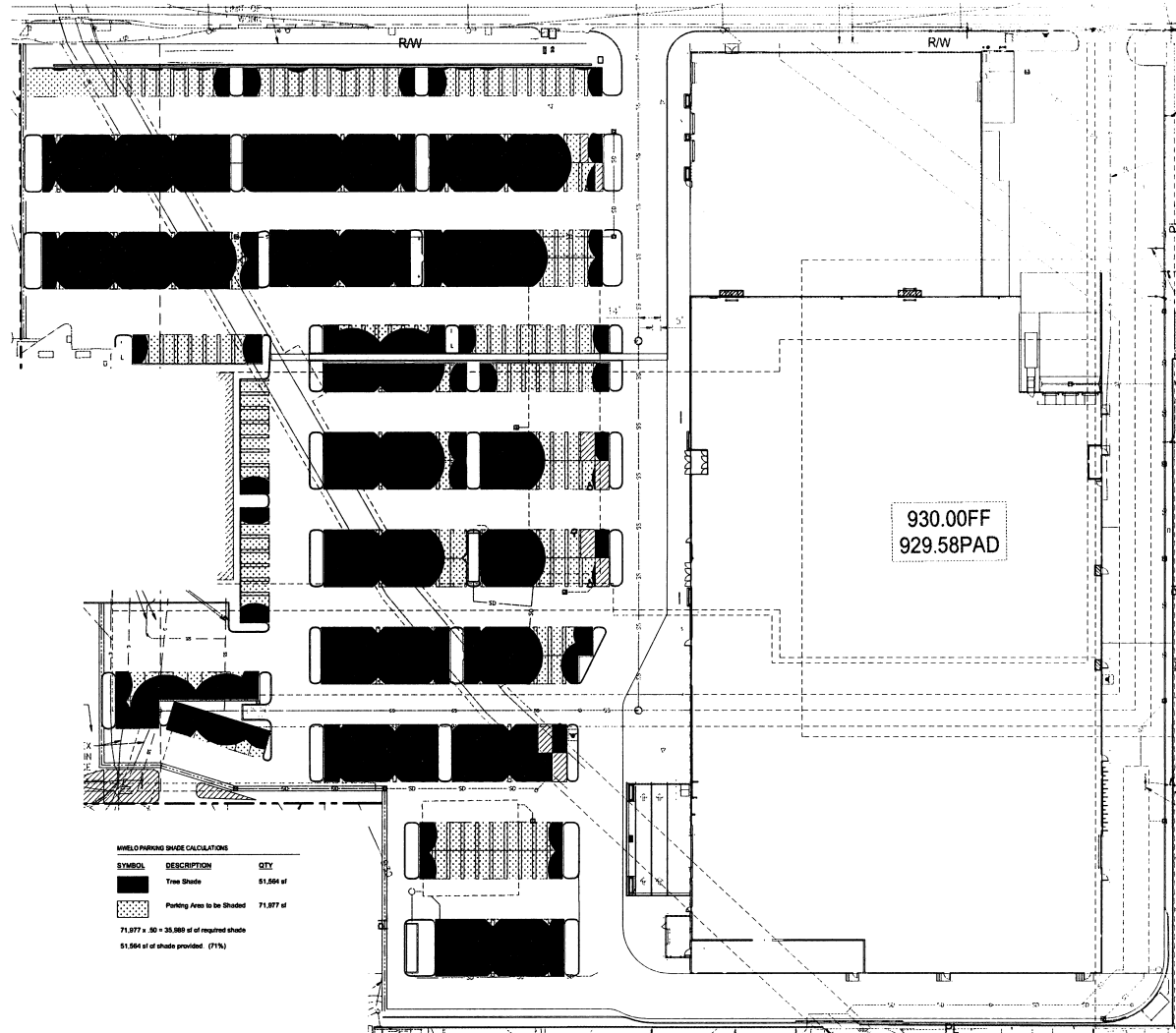
designed by: RC  
checked by: RC



03.29.24

**PLANTING NOTES**

**L1.02**



**WHELO PARKING SHADE CALCULATIONS**

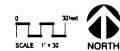
SYMBOL	DESCRIPTION	QTY
■	Tree Shade	81,564 sf
▨	Parking Area to be Shaded	71,877 sf
71,877 x .90 = 35,889 sf of required shade		
81,564 sf of shade provided (71%)		

I agree to comply with the requirements of the water efficient landscaping program and submit a complete Landscape Distribution Package

*Robert L. Curley*  
Robert L. Curley, RLA 11111

A minimum 3-inch layer of mulch shall be applied on all exposed soil surfaces of planting areas except turf areas, creeping or rooting groundcovers, or direct seeding applications where mulch is contraindicated.

For soils less than 6% organic matter in the top 6 inches of soil, compost at a rate of a minimum of four cubic yards per 1,000 square feet of permeable area shall be incorporated to a depth of six inches into the soil.



landscape architect  
**ROBERT L. CURLEY & ASSOCIATES, INC.**  
583 - 11th Street, Suite 100  
San Diego, California 92101  
Tel: 619.594.1111  
Fax: 619.594.1112  
www.rlc.com

project no 23-10298



THE HOME DEPOT  
2455 PACES FERRY ROAD, C-19  
ATLANTA, GA 30339-4024  
PHONE: (770) 433-8211

WORKING  
GRANADA HILLS, CA  
SEC DEVONSHIRE & BALBOA  
GRANADA HILLS, CA 91344  
STORE 0000

**ISSUE DATES**

submission:	01/03/24
revised:	06/06/24
CONSTRUCTION	06/06/24
revisions:	06/06/24
AS NOTED	06/06/24

designed by: RC  
checked by: RC



sheet info 03/24/24

PARKING SHADE  
**L1.03**

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	ARC	PSI	GPM	RADIUS
(1)	Rain Bird 1806 SAM PRS 5 Series Stream SC3 B Stream Bubble 5 On prepup with check valve and pressure regulator	160	180	20	0.5	1/4" 1/2"
(1)	Rain Bird 1806 SAM PRS 5 Series Stream SQ B Stream Bubble 5 On prepup with check valve and pressure regulator	1	90	20	0.5	5"
(1)	Rain Bird RWS B C 1402 Rain Warning System with 1/2" diameter 3-1/2" long with locking gate, semi rigid mesh tube, and check valve. Rain Bird bubble gaskets are included. 14010 25 gpm, 1402 5 gpm, 1404 1.0 gpm, 1408 2.0 gpm.	268	360	20	0.5	3"

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI
(1)	Rain Bird KC2 PRB 100 COM Medium Flow Flow Drop Control Kit for Commercial Applications: 1" Ball Valve with 1" PESS Valve and 1" Pressure Regulating 40psi Check Check Backfill Filter. 3gpm to 20gpm.	10	
(1)	Nalden TLV 1 Automatic Flush Valve, with Inset Inlet	21	
(A)	Nalden TLAVR1 Automatic relief valve, 1/2in. male pipe thread	15	
(1)	Area to Receive Drains Rain Bird XFS CV 0118 XFS CV Back Surface and On Surface Landscape Drains with a Heavy Duty 4.3 psi Check Valve. 0.4 GPM emitters at 18" O.C. Drains laterals spaced at 18" apart, with emitters offset for triangular pattern. Specify XF insert fittings.	17,718 ±	20

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
(1)	Rain Bird PEB 1" 1 1/2" 2" Plastic Industrial Valves, Low Flow Operating Capacity, Globe Configuration	14
(1)	Rain Bird 3303RC 3/4" Check Control Valve, Ino press body	1
(1)	Niboot T 880 SR 86 LL Stainless steel ball valve and offset valve	1
(1)	Buckner Superior 3000 1 1/2" Normally Closed Brass Master Valve that Provides Dirty Water Protection and 3 Way Selected Design. Available in 1", 1 1/2", 2", 2 1/2" and 3" sizes	1
(1)	Waters 375RVR HPRC PRE SET SERIES 1 1/2" Reduced Pressure Backflow Preventer with 7" Stemmer and Pressure Regulator. High Range (HRS) 15 150 PSI (Hrs)	1
(1)	Rain Bird ESP 12LUMEF LUMISS w/ (1) ESP 12LUMM12 24 Station, Traditionally Wired, Rain Street, Commercial Controller. (1) ESP 12LUMEF 12-Station, Flow Smart, (Mudrot) Infrared Indoor/Outdoor, Plastic Heat Sensitive Endzone w/ (1) ESP 12LUMEM12 12-Station Expansion Module. Install in LUMISS Stainless Steel Wall Mounted Cabinet.	1
(1)	Rain Bird WR2 RC Wireless Rain Sensor Combo, includes 1 receiver and 1 rain sensor transmitter	1
(1)	Rain Bird FS 150 P 1 1/2" Flow Sensor for use with Rain Bird Maxson, SincControl and ESP LXD Central Control Systems. Plastic (PVC) Model. Suggested Operating Range of 5.0 GPM to 100.0 GPM. Sensors should be sized for flow rather than pipe size.	1
(1)	Water Meter 1 1/2" LADWP Hrs 104 psi, Loh 58 psi, ELEV 834'	1
(1)	Irrigation Lateral Line PVC Schedule 40	8,729 L.F.
(1)	Irrigation Mainline PVC Schedule 40	4,134 L.F.
(1)	Pipe Sleeve PVC Schedule 40	841 6 L.F.



CRITICAL ANALYSIS  
2024 03 29 08 15

P.O.C. NUMBER 01  
Water Source Information LADWP Hrs 104 psi, Loh 58 psi, ELEV 834'

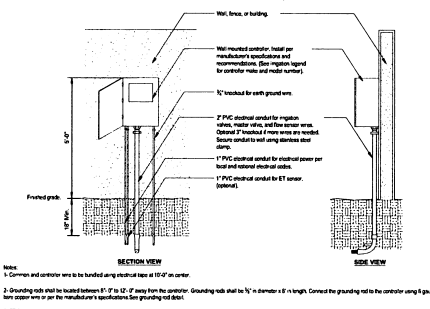
FLOW AVAILABLE  
Water Meter Size: 1 1/2"  
Flow Available: 45.99 GPM

PRESSURE AVAILABLE  
Static Pressure at POC: 86 PSI  
Elevation Change: 100.8'  
Service Line Size: 1 1/2"  
Length of Service Line: 28.9'  
Pressure Available: 85 PSI

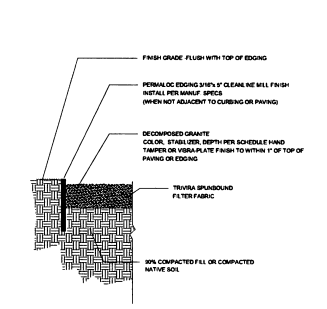
DESIGN ANALYSIS  
Maximum Station Flow: 22 GPM  
Flow Available at POC: 45.99 GPM  
Residual Flow Available: 25.59 GPM

Critical Station	Design Pressure	Friction Loss	Fittings Loss	Elevation Loss	Loss through Valve	Pressure Head at Critical Station	Loss for Frittings	Loss for Main Line	Loss for POC to Valve Elevation	Loss for Backflow	Loss for Master Valve	Loss for Water Meter	Critical Station Pressure at POC	Pressure Available
C1	20 PSI	0.02	0.02	0.00	0.00	19.98	0.00	0.00	0.00	0.00	0.00	0.00	19.98	85.00
C2	20 PSI	0.02	0.02	0.00	0.00	19.98	0.00	0.00	0.00	0.00	0.00	0.00	19.98	85.00
C3	20 PSI	0.02	0.02	0.00	0.00	19.98	0.00	0.00	0.00	0.00	0.00	0.00	19.98	85.00
C4	20 PSI	0.02	0.02	0.00	0.00	19.98	0.00	0.00	0.00	0.00	0.00	0.00	19.98	85.00
C5	20 PSI	0.02	0.02	0.00	0.00	19.98	0.00	0.00	0.00	0.00	0.00	0.00	19.98	85.00
C6	20 PSI	0.02	0.02	0.00	0.00	19.98	0.00	0.00	0.00	0.00	0.00	0.00	19.98	85.00
C7	20 PSI	0.02	0.02	0.00	0.00	19.98	0.00	0.00	0.00	0.00	0.00	0.00	19.98	85.00
C8	20 PSI	0.02	0.02	0.00	0.00	19.98	0.00	0.00	0.00	0.00	0.00	0.00	19.98	85.00
C9	20 PSI	0.02	0.02	0.00	0.00	19.98	0.00	0.00	0.00	0.00	0.00	0.00	19.98	85.00
C10	20 PSI	0.02	0.02	0.00	0.00	19.98	0.00	0.00	0.00	0.00	0.00	0.00	19.98	85.00
C11	20 PSI	0.02	0.02	0.00	0.00	19.98	0.00	0.00	0.00	0.00	0.00	0.00	19.98	85.00
C12	20 PSI	0.02	0.02	0.00	0.00	19.98	0.00	0.00	0.00	0.00	0.00	0.00	19.98	85.00
C13	20 PSI	0.02	0.02	0.00	0.00	19.98	0.00	0.00	0.00	0.00	0.00	0.00	19.98	85.00
C14	20 PSI	0.02	0.02	0.00	0.00	19.98	0.00	0.00	0.00	0.00	0.00	0.00	19.98	85.00
C15	20 PSI	0.02	0.02	0.00	0.00	19.98	0.00	0.00	0.00	0.00	0.00	0.00	19.98	85.00
C16	20 PSI	0.02	0.02	0.00	0.00	19.98	0.00	0.00	0.00	0.00	0.00	0.00	19.98	85.00
C17	20 PSI	0.02	0.02	0.00	0.00	19.98	0.00	0.00	0.00	0.00	0.00	0.00	19.98	85.00
C18	20 PSI	0.02	0.02	0.00	0.00	19.98	0.00	0.00	0.00	0.00	0.00	0.00	19.98	85.00
C19	20 PSI	0.02	0.02	0.00	0.00	19.98	0.00	0.00	0.00	0.00	0.00	0.00	19.98	85.00
C20	20 PSI	0.02	0.02	0.00	0.00	19.98	0.00	0.00	0.00	0.00	0.00	0.00	19.98	85.00
C21	20 PSI	0.02	0.02	0.00	0.00	19.98	0.00	0.00	0.00	0.00	0.00	0.00	19.98	85.00
C22	20 PSI	0.02	0.02	0.00	0.00	19.98	0.00	0.00	0.00	0.00	0.00	0.00	19.98	85.00
C23	20 PSI	0.02	0.02	0.00	0.00	19.98	0.00	0.00	0.00	0.00	0.00	0.00	19.98	85.00
C24	20 PSI	0.02	0.02	0.00	0.00	19.98	0.00	0.00	0.00	0.00	0.00	0.00	19.98	85.00
C25	20 PSI	0.02	0.02	0.00	0.00	19.98	0.00	0.00	0.00	0.00	0.00	0.00	19.98	85.00
C26	20 PSI	0.02	0.02	0.00	0.00	19.98	0.00	0.00	0.00	0.00	0.00	0.00	19.98	85.00
C27	20 PSI	0.02	0.02	0.00	0.00	19.98	0.00	0.00	0.00	0.00	0.00	0.00	19.98	85.00
C28	20 PSI	0.02	0.02	0.00	0.00	19.98	0.00	0.00	0.00	0.00	0.00	0.00	19.98	85.00
C29	20 PSI	0.02	0.02	0.00	0.00	19.98	0.00	0.00	0.00	0.00	0.00	0.00	19.98	85.00
C30	20 PSI	0.02	0.02	0.00	0.00	19.98	0.00	0.00	0.00	0.00	0.00	0.00	19.98	85.00
C31	20 PSI	0.02	0.02	0.00	0.00	19.98	0.00	0.00	0.00	0.00	0.00	0.00	19.98	85.00
C32	20 PSI	0.02	0.02	0.00	0.00	19.98	0.00	0.00	0.00	0.00	0.00	0.00	19.98	85.00
C33	20 PSI	0.02	0.02	0.00	0.00	19.98	0.00	0.00	0.00	0.00	0.00	0.00	19.98	85.00
C34	20 PSI	0.02	0.02	0.00	0.00	19.98	0.00	0.00	0.00	0.00	0.00	0.00	19.98	85.00
C35	20 PSI	0.02	0.02	0.00	0.00	19.98	0.00	0.00	0.00	0.00	0.00	0.00	19.98	85.00
C36	20 PSI	0.02	0.02	0.00	0.00	19.98	0.00	0.00	0.00	0.00	0.00	0.00	19.98	85.00
C37	20 PSI	0.02	0.02	0.00	0.00	19.98	0.00	0.00	0.00	0.00	0.00	0.00	19.98	85.00
C38	20 PSI	0.02	0.02	0.00	0.00	19.98	0.00	0.00	0.00	0.00	0.00	0.00	19.98	85.00
C39	20 PSI	0.02	0.02	0.00	0.00	19.98	0.00	0.00	0.00	0.00	0.00	0.00	19.98	85.00
C40	20 PSI	0.02	0.02	0.00	0.00	19.98	0.00	0.00	0.00	0.00	0.00	0.00	19.98	85.00
C41	20 PSI	0.02	0.02	0.00	0.00	19.98	0.00	0.00	0.00	0.00	0.00	0.00	19.98	85.00
C42	20 PSI	0.02	0.02	0.00	0.00	19.98	0.00	0.00	0.00	0.00	0.00	0.00	19.98	85.00
C43	20 PSI	0.02	0.02	0.00	0.00	19.98	0.00	0.00	0.00	0.00	0.00	0.00	19.98	85.00
C44	20 PSI	0.02	0.02	0.00	0.00	19.98	0.00	0.00	0.00	0.00	0.00	0.00	19.98	85.00
C45	20 PSI	0.02	0.02	0.00	0.00	19.98	0.00	0.00	0.00	0.00	0.00	0.00	19.98	85.00
C46	20 PSI	0.02	0.02	0.00	0.00	19.98	0.00	0.00	0.00	0.00	0.00	0.00	19.98	85.00
C47	20 PSI	0.02	0.02	0.00	0.00	19.98	0.00	0.00	0.00	0.00	0.00	0.00	19.98	85.00
C48	20 PSI	0.02	0.02	0.00	0.00	19.98	0.00	0.00	0.00	0.00	0.00	0.00	19.98	85.00
C49	20 PSI	0.02	0.02	0.00	0.00	19.98	0.00	0.00	0.00	0.00	0.00	0.00	19.98	85.00
C50	20 PSI	0.02	0.02	0.00	0.00	19.98	0.00	0.00	0.00	0.00	0.00	0.00	19.98	85.00
C51	20 PSI	0.02	0.02	0.00	0.00	19.98	0.00	0.00	0.00	0.00	0.00	0.00	19.98	85.00
C52	20 PSI	0.02	0.02	0.00	0.00	19.98	0.00	0.00	0.00	0.00	0.00	0.00	19.98	85.00
C53	20 PSI	0.02	0.02	0.00	0.00	19.98	0.00	0.00	0.00	0.00	0.00	0.00	19.98	85.00
C54	20 PSI	0.02	0.02	0.00	0.00	19.98	0.00	0.00	0.00	0.00	0.00	0.00	19.98	85.00
C55	20 PSI	0.02	0.02	0.00	0.00	19.98	0.00	0.00	0.00	0.00	0.00	0.00	19.98	85.00
C56	20 PSI	0.02	0.02	0.00	0.00	19.98	0.00	0.00	0.00	0.00	0.00	0.00	19.98	85.00
C57	20 PSI	0.02	0.02	0.00	0.00	19.98	0.00	0.00	0.00	0.00	0.00	0.00	19.98	85.00
C58	20 PSI	0.02	0.02	0.00	0.00	19.98	0.00	0.00	0.00	0.00	0.00	0.00	19.98	85.00
C59	20 PSI	0.02	0.02	0.00	0.00	19.98	0.00	0.00	0.00	0.00	0.00	0.00	19.98	85.00
C60	20 PSI	0.02	0.02	0.00	0.00	19.98	0.00	0.00	0.00	0.00	0.00	0.00	19.98	85.00
C61	20 PSI	0.02	0.02	0.00	0.00	19.98	0.00	0.00	0.00	0.00	0.00	0.00	19.98	85.00
C62	20 PSI	0.02	0.02	0.00	0.00	19.98	0.00	0.00	0.00	0.00	0.00	0.00	19.98	85.00
C63	20 PSI	0.02	0.02	0.00	0.00	19.98	0.00	0.00	0.00	0.00	0.00	0.00	19.98	85.00
C64	20 PSI	0.02	0.02	0.00	0.00	19.98	0.00	0.00	0.00	0.00	0.00	0.00	19.98	85.00
C65	20 PSI	0.02	0.02	0.00	0.00	19.98	0.00	0.00	0.00	0.00	0.00	0.00	19.98	85.00
C66	20 PSI	0.02	0.02	0.00	0.00	19.98	0.00	0.00	0.00	0.00	0.00	0.00	19.98	85.00
C67	20 PSI	0.02	0.02	0.00	0.00	19.98	0.00	0.00	0.00	0.00	0.00	0.00	19.98	85.00
C68	20 PSI	0.02	0.02	0.00	0.00	19.98	0.00	0.00	0.00	0.00	0.00	0.00	19.98	85.00
C69	20 PSI	0.02	0.02	0.00	0.00	19.98	0.00	0.00	0.00	0.00	0.00	0.00	19.98	85.00
C70	20 PSI	0.02	0.02	0.00	0.00	19.98	0.00	0.00	0.00	0.00	0.00	0.00	19.98	85.00
C71	20 PSI	0.02	0.02	0.00	0.00	19.98	0.00	0.00	0.00	0.00	0.00	0.00	19.98	85.00
C72	20 PSI	0.02	0.02	0.00	0.00	19.98	0.00	0.00	0.00	0.00	0			

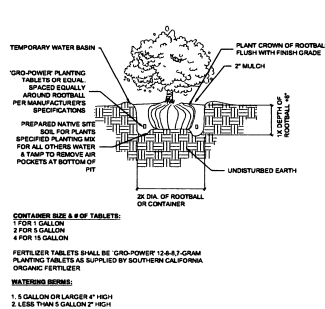




**10 WALL MOUNTED CONTROLLER**  
1 1/2" x 1/2"



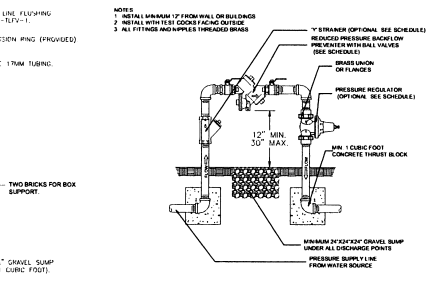
**6 DECOMPOSED GRANITE**  
1 1/2" x 1/2"



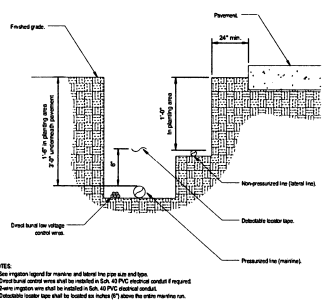
**4 SHRUB PLANTING**  
1 1/2" x 1/2"



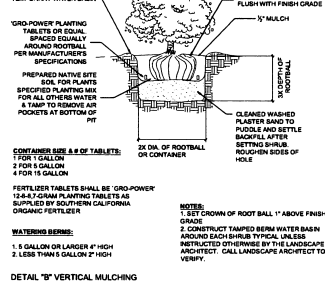
**1 TREE ROOT BARRIER**  
1 1/2" x 1/2"



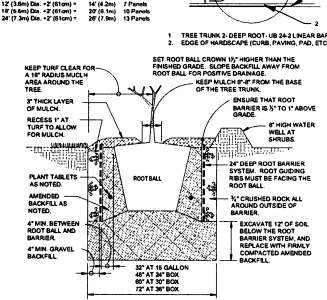
**11 REDUCED PRESSURE BACKFLOW DEVICE**  
1 1/2" x 1/2"



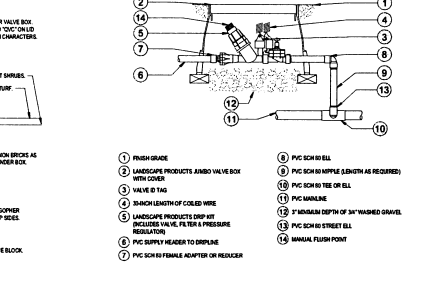
**7 IRRIGATION TRENCHING**  
1 1/2" x 1/2"



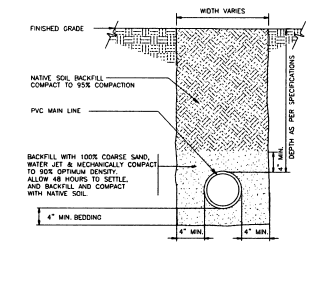
**5 TREE PLANTING**  
1 1/2" x 1/2"



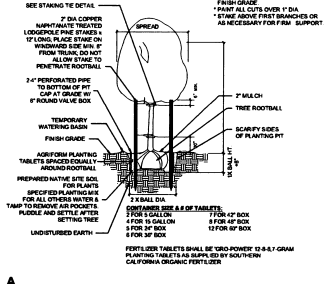
**2 CINCH TIE**  
1 1/2" x 1/2"



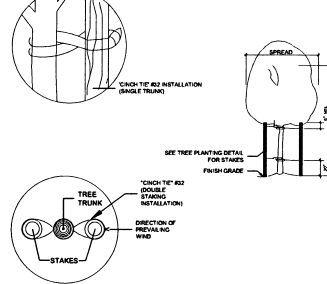
**12 DRIP ZONE KIT IN VALVE BOX**  
NOT TO SCALE



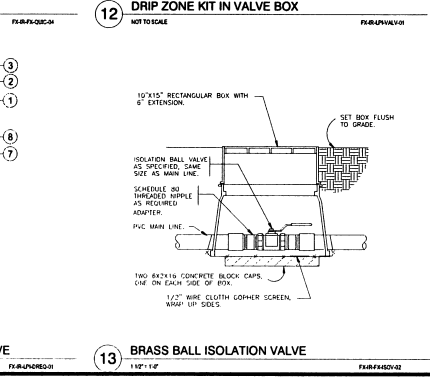
**8 SLEEVE AT ROAD**  
1 1/2" x 1/2"



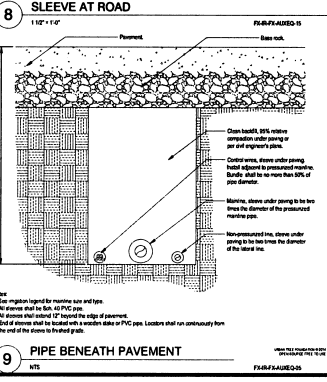
**3 GROUND COVER**  
1 1/2" x 1/2"



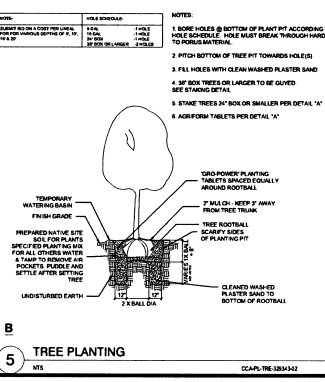
**16 17MM EZ-ID DRILINE AIR RELIEF VALVE**  
NOT TO SCALE



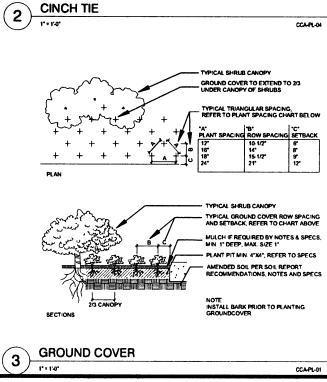
**13 BRASS BALL ISOLATION VALVE**  
1 1/2" x 1/2"



**9 PIPE BENEATH PAVEMENT**  
1 1/2" x 1/2"



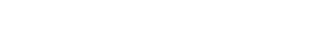
**10 WALL MOUNTED CONTROLLER**  
1 1/2" x 1/2"



**11 REDUCED PRESSURE BACKFLOW DEVICE**  
1 1/2" x 1/2"



**14 NETAFIM TECHLINE FLUSH VALVE**  
1 1/2" x 1/2"



**15 QUICK COUPLING VALVE IN BOX**  
1 1/2" x 1/2"



**16 17MM EZ-ID DRILINE AIR RELIEF VALVE**  
NOT TO SCALE



**17 17MM EZ-ID DRILINE AIR RELIEF VALVE**  
NOT TO SCALE

**LANDSCAPE ARCHITECT**

**COUNCILMAN**  
L.A. 1700 Pacific Coast Highway, Suite C  
Santa Monica, California 90404  
TEL: 310.316.1122 FAX: 310.316.1123  
WWW.COUNCILMAN.COM

project no 23-10298

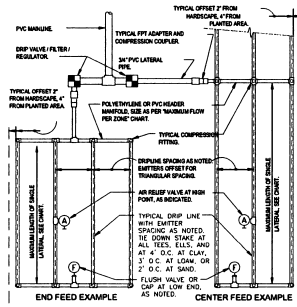
**THE HOME DEPOT**  
3855 PACES FERRY ROAD, C-19  
ATLANTA, GA 30338-4928  
PHONE: (770) 433-8111

**GRANADA HILLS, CA**  
SEC DEVONSHIRE & SALBA  
GRANADA HILLS, CA 91304  
STORE: 0000

**SUBMISSION:** 01/09/24  
DESIGN: 000000  
CONSTRUCTION: 000000  
000000

designed by: RC  
drawn by: RC

**LANDSCAPE DETAILS**  
**L3.00**



- BLIND CONDITION NOTE**
- DRIPE LATERAL SHOULD FOLLOW THE CONTOURS OF THE SLOPE WHENEVER POSSIBLE.
  - INSTALL AIR RELIEF VALVE AT HIGHEST POINT.
  - NORMAL SPACING WITHIN THE TOP 1/3 OF SLOPE.
  - INSTALL DRIPE LINE AT 2X GREATER SPACING AT THE BOTTOM OF THE SLOPE.
  - WHEN ELEVATION CHANGE IS 10 FT OR MORE, ZONE THE BOTTOM ON A SEPARATE VALVE.

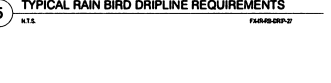
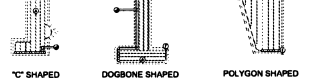
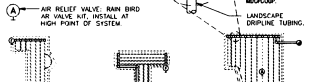
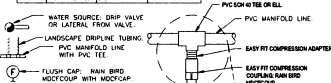
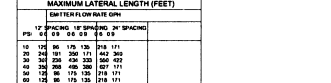
GRID PRECIPITATION RATES (IN/HR)			MAXIMUM FLOW PER ZONE		
EMITTER SPACING	LATERAL SPACING	EMITTER RATE	SCHEDULE 40 PVC HEADERS SIZE	EMITTER RATE	EMITTER SPACING
12	12	0.88	1/2"	1.0	12
18	18	0.88	3/4"	1.5	18
24	24	0.88	1"	2.0	24

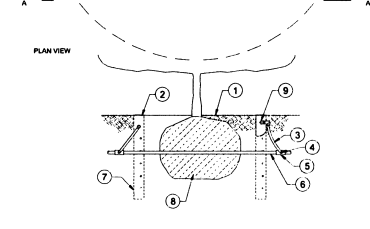
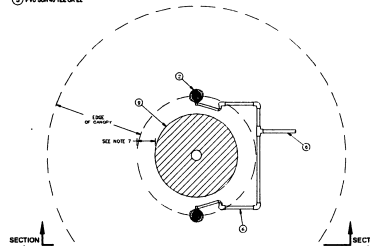
LATERAL FLOW PER 100 FT (GPM)		
EMITTER RATE	EMITTER SPACING	LATERAL SPACING
0.8 GPM	12"	12"
1.5 GPM	18"	18"
2.0 GPM	24"	24"

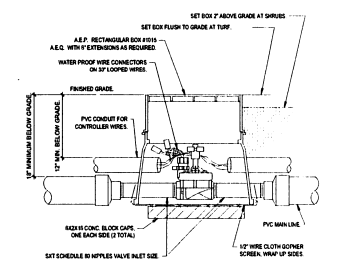
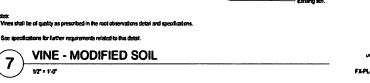
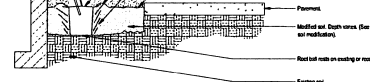
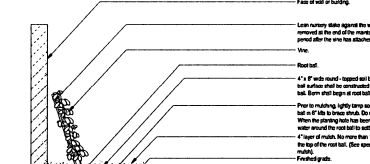
MAXIMUM LATERAL LENGTH (FEET)		
EMITTER RATE	EMITTER SPACING	LATERAL SPACING
0.8 GPM	12"	12"
1.5 GPM	18"	18"
2.0 GPM	24"	24"



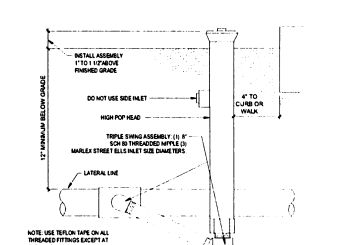
- 1 FINISH GRADE TOP OF MAIN
- 2 60° F ROUND DRIVE - BLACK
- 3 1/4" BONDING PERFORMED DRAIN PIPE
- 4 SA SERIES SWING ASSEMBLY
- 5 1/2" (1.3 IN) W/40 P/NET (INCLUDED)
- 6 PVC SCH 40 TEE OR ELB
- 7 PVC ON LATERAL PIPE
- 8 1/2" BONDING PERFORMED DRAIN PIPE
- 9 PLUMB ROOT BALL
- 10 BUBBLER PER IRRIGATION SCHEDULE



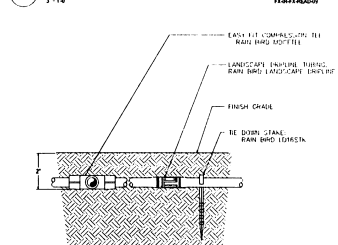
- NOTES:**
1. POSITION 7" DIA 1/2" SPACED SPREAD PLANT FOR NEW TREE PLACE NEAR ROOT BALL FOR EXISTING TREE PLACE HALF THE DISTANCE IN EACH DIRECTION FROM THE TREE.
  2. METAL REVISE WITH TOP COVER WITH DRIVING SURFACE.
  3. HOLES REQUIRED IN EXISTING FLOOR OR CONCRETE AND 2" DIA (2.0 IN) DRILL HOLE AND DRIVING THE UNIT TO ALLOW FASTER WATER INFILTRATION AND ROOT PENETRATION.
  4. HOLES MUST BE REINFORCED TO THE POINTS WITH REINFORCING BARS, BEARING PLATES, ETC.
  5. FOR NEW TREE PLACE WATERING SYSTEM NEAR ROOT BALL FOR EXISTING TREE PLACE WATERING SYSTEM NEAR TO EDGE OF COURSE.



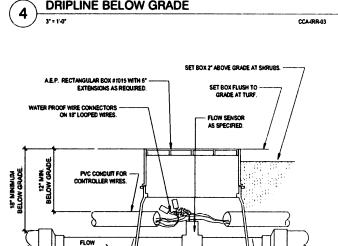
1 MASTER CONTROL VALVE  
1 1/2" x 1/2"



2 SHRUB SPRAY HIGH-POP MARLEX ASSEMBLY  
7/8" x 1/2"



4 DRIPLINE BELOW GRADE  
7/8" x 1/2"



6 FLOW SENSOR ASSEMBLY  
1 1/2" x 1/2"

landscape architect  
**COASTAL CONSTRUCTION**  
1700 Pacific Coast Highway, Suite C  
565 Sea Beach, California 90742  
949.441.1232  
WWW.COASTALCONSTRUCTION.COM

Project no 23-10398  
REVISED

**THE HOME DEPOT**  
3455 PACIFIC FERRY ROAD, C-19  
ATLANTA, GA 30339-4034  
PHONE: (770) 433-8211

Project Info  
GRANDDA HILLS, GA  
SEC DEVONSHIRE & BALDIA  
GRANDDA HILLS, GA 31844  
STORE 0000

Issue Dates  
Submission: 01/07/24  
REVISED: 01/07/24  
REVISED: 01/07/24  
REVISED: 01/07/24

Revisions  
1. 01/07/24

Designed by: RC  
Checked by: RC  
Scale: 1/8" = 1'-0"

01/07/24  
LANDSCAPE DETAILS  
**L3.01**



SECTION 02011 IRRIGATION SYSTEM	
<b>PART 1 GENERAL</b>	
<b>1.1 RELATED DOCUMENTS</b>	A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.
<b>1.2 SUMMARY</b>	A. This Section includes leveling and irrigation system. B. Include a one-year of extended maintenance. Extended maintenance requirements are specified in Division 2 Section "Landscape and Irrigation Maintenance".
<b>1.3 QUALITY ASSURANCE AND REQUIREMENTS</b>	A. Permits and Fees: Obtain and pay for any and all permits and all inspections as required. B. Manufacturer's Directions: Manufacturer's directions and detailed drawings shall be followed in all cases where the manufacturer's directions are in this Contract furnish directions covering points not shown in the Drawings and Specifications. C. Ordinances and Regulations: All local, municipal and state laws, rules, and regulations governing or relating to any portion of this work are hereby incorporated into and made a part of these Specifications, and their provisions shall be carried out by the Contractor. Anything contained in these Specifications shall not be construed to conflict with any of the above rules and regulations or requirements of the same. However, when these Specifications and Drawings call for or describe materials, workmanship or construction of a better quality, higher standard, or larger size than is required by the above rules and regulations, the provisions of these Specifications and Drawings shall take precedence. D. Explanation of Drawings: 1. Due to the scale of Drawings, it is not possible to indicate all offsets, fittings, sleeves, etc., which may be required. Carefully investigate the structural and finished conditions affecting all of his work and plan his work accordingly, furnishing such fittings, etc., as may be required to meet such conditions. Drawings are generally schematic and indicative of the work to be installed. The work shall be installed in such a manner as to avoid conflicts between irrigation systems, planting, utilities and architectural features. 2. All items called for on the Drawings by notes or details shall be furnished and installed whether or not specifically mentioned in the Specifications. 3. Do not willfully install the irrigation system as shown on the Drawings when it is obvious in the field that unforeseen obstructions, grade differences or discrepancies in area dimensions exist that shall not have been considered in engineering. Such obstructions or differences should be brought to the attention of the Landscape Architect. In the event this notification is not performed, the Contractor shall assume full responsibility for any reason necessary.
<b>1.4 ACTION SUBMITTALS</b>	A. Material List: 1. Furnish the articles, equipment, materials, or processes specified by name in the Drawings and Specifications. No substitutions will be allowed without prior written acceptance by the Landscape Architect. 2. Complete material list shall be submitted prior to performing any work. Material list shall include the manufacturer, model number and description of all materials and equipment to be used. 3. Equipment or materials installed or furnished without prior acceptance by the Landscape Architect shall be rejected and removed from the site at their expense. 4. Review any item, alternate or substitute indicates only that the product or products apparently meet the requirements of the Drawings and Specifications on the basis of the information furnished and submitted by the Contractor. 5. Manufacturer's warranties shall not relieve the Contractor of liability under the guarantee. Such warranties shall only supplement the guarantee. B. Record and As-Built Drawings: 1. Provide and keep up to date a complete "as-built" record set of prints which shall be corrected daily and show every change from the original Drawings and Specifications and the exact "as-built" locations, sizes and kinds of equipment. Prints for this purpose may be obtained from the Architect at cost. This set of drawings shall be kept at the site and shall be used only as a record set. 2. These drawings shall also serve as work progress sheets, and the Contractor shall make neat and legible annotations thereon daily as the work proceeds, showing the work as actually installed. These drawings shall be available at all times for review on site. 3. Before the date of final review, transfer all information from the as-built prints to a reproducible drawing, prepared from the Landscape Architect at cost. All keys shall be neat, in ink, and subject to the approval of the Landscape Architect. 4. Dimension from two (2) permanent points of reference, building corners, sidewalk or road intersections, etc., the location of the following items: a. Connection to existing water lines. b. Connection to existing electrical power. c. Gate valves. d. Routing of sprinkler pressure lines (dimension maximum 100 feet (30 m) along routing). e. Sprinkler control valves. f. Routing of control wiring. g. Quick coupling valves and drain valves. h. Other related equipment as directed by the Landscape Architect. 5. Deliver the completed and corrected as-built reproducible prints to the Landscape Architect thirty (30) days before the date of final review. Delivery of the reproducible prints will not release the Contractor of the responsibility of furnishing required information that may be omitted from the prints. C. Contractor Charts: 1. As-built reproducible prints shall be reviewed by the Landscape Architect before contractor charts are prepared. 2. Provide one contractor chart for each controller supplied. 3. The chart shall show the area controlled by the automatic controller and shall be the maximum size which the controller door will allow. 4. The chart is to be a reduced drawing of the approved as-built reproducible prints. In the event the controller sequence is legible when the drawing is reduced, it shall be enlarged to a size that will be readable. 5. The chart shall have a reproducible drawing and a different color shall be used to indicate the area of coverage for each station. 6. When completed and approved, the chart shall be hermetically sealed between two pieces of plastic, minimum 8 mil. 7. These charts shall be completed and approved by the Landscape Architect prior to final review of the irrigation system. 8. Contractor charts shall be attached to the inside surface of the corresponding controller enclosure prior to final review. D. Operation and Maintenance Manuals: 1. Prepare and deliver to the Landscape Architect within ten (10) calendar days prior to completion of construction, a cover binder with three rings containing the following information: a. Index sheet listing Contractor's address and telephone number, list of equipment with name and addresses of local manufacturer's representatives. b. Catalog and parts lists for every material and equipment installed under this Contract. c. Guarantee statement. d. Complete operating and maintenance instructions on all major equipment. e. Construction details from project. f. Controller trouble shooting guide to common irrigation problems. g. Winterization and spring start up procedures. h. Chart of approved watering times for spring, summer, fall and winter. 2. In addition to the above mentioned maintenance manuals, provide the Owner's maintenance personnel with instructions for major equipment and show evidence in writing to the Landscape Architect at the conclusion of the project that no service has been rendered. E. Maintenance Materials to be Furnished: 1. Supply as a part of this Contract, the following tools: a. Two sets of tools required for removing, disassembling and adjusting each type of sprinkler and valve supplied on this project. b. Two 5-foot (1500 mm) wire saws for operation of gate valves. c. Two keys for each automatic controller. d. Three quick-coupler keys and matching hose saws for each type of quick coupling valve installed. e. End Use Equipment, including the following: 1) One pair of hand-cut shears. 2) 10 feet (3 m) of dripper tubing for each dripper, interval and discharge rate. 3) Six barbed couplings. 4) Six barbed 90 degree elbows. 5) Six barbed tee fittings. 6) Six 100' x 1/2" wire adapter tool. 7) Six male adapters with 3/4 inch (19 mm) FPT. 8) The spare line element of the main line installed on the irrigation system. 9) One line flushing valve. 10) Two regulator springs of the colored and regulating pressure indicated on the irrigation legend. 11) Six dripper plug plugs. 12) The above mentioned equipment shall be turned over to the Owner at the conclusion of the project. Before final review can occur, evidence that the Owner has received material must be shown to the Landscape Architect.
<b>1.5 PRODUCT DELIVERY, STORAGE AND HANDLING</b>	A. Handling of PVC pipe and fittings: The Contractor is cautioned to exercise care in handling, loading, unloading, and transporting of PVC pipe and fittings. All PVC pipe shall be transported in a vehicle which allows the length of pipe to lie flat so as not to be subjected to undue bending or concentrated abnormal load at any point. Any section of pipe that has been dented or damaged will be discarded, and, if replaced, shall be replaced with new piping. B. Provide all equipment called for by the Drawings.
<b>1.6 FIELD QUALITY CONTROL AND SITE VISITS</b>	A. Required Site Visits During Construction: 1. Pre-Installation Conference: Contractor, Installer, Landscape Architect, Owner's Representative, and other pertinent parties to attend. 2. Landscape Architect will make three (3) site visits during construction to review the irrigation system at the following stages: a. Prior to pipe cover-up for mainline pressure test and start timer. b. After sprinkler head installation. c. Puncti fill coverage test. 3. Puncti Fill Review: Landscape Architect will make one site visit to review the completed work. Landscape Architect to obtain Contractor's Puncti fill prior to visit and to schedule the visit when the work is complete enough to begin the need for additional visits. B. Required Site Visit After Construction: 1. Landscape Architect will make one (1) Guaranteed Site Visit. C. Submit reports of site visits to Architect and Owner. D. Site Visit Schedule: Contractor shall be responsible for notifying the Landscape Architect and Owner's Representative in advance for the following items, according to the time indicated: 1. Pre-Installation Conference: Five (5) business days. 2. Mainline Pressure Test and Start Review: Three (3) business days. 3. Sprinkler Head Installation: Three (3) business days. 4. Puncti Fill Review and Cover Test: Three (3) business days. 5. One-Year Guaranteed Site Visit: Ten (10) business days.
<b>1.7 GUARANTEE</b>	A. The guarantee for the irrigation system shall be made in accordance with the attached form. The General Conditions and Supplementary Conditions of these Specifications shall be filed with the Owner or his representative prior to acceptance of the irrigation system. B. A copy of the guarantee form shall be included in the operations and maintenance manual. C. The guarantee form shall be signed by the Contractor's authorized representative and contain the following information: <p style="text-align: center;"><b>GUARANTEE FOR IRRIGATION SYSTEM</b></p> We hereby guarantee that the irrigation system we have furnished and installed is free from defects in materials and workmanship, and the work has been completed in accordance with the Drawings and Specifications, ordinary wear and tear and unusual abuse, or neglect installed. We agree to repair or replace any defects in materials or workmanship which may develop during the period of one (1) year from date of acceptance and also to repair or replace any damage resulting from the repairing or replacing of such defects at no additional cost to the Owner. We shall make such substitutions as the Owner may request, as determined by the Owner, after receipt of a written notice. In the event of our failure to make such repairs or replacements within a reasonable time after receipt of written notice from the Owner, we authorize the Owner to proceed to have said repairs or replacements made at our expense and we will pay the costs and charges thereon upon demand. PROJECT: _____ LOCATION: _____ SIGNED: _____ Contractor: ADDRESS: _____ PHONE: _____ DATE OF ACCEPTANCE: _____
<b>PART 2 PRODUCTS</b>	
<b>2.1 MATERIALS</b>	A. General: Use only new materials of brands and types noted on Drawings and specified herein. B. PVC Pressure Main Line Pipe and Fittings: 1. Pressure main line piping shall be PVC Schedule 40. 2. Pipe shall be made from an NSF approved Type I, Grade I, PVC compound conforming to ASTM main specification D1754. All pipe must meet requirements as set forth in Federal Specification PS-22-70 with an appropriate standard dimension ratio (S.D.R.). (Solvent weld pipe). 3. Pipe shall be made from NSF approved Type I, Grade I, PVC compound conforming to ASTM main specification D1754. All pipe must meet requirements as set forth in Federal Specification PS-21-70. (Solvent weld pipe). 4. PVC solvent-weld fittings shall be Schedule 40, 1/2", 1" NSF approved conforming to ASTM main provision D2466. 5. Solvent cement and primer for PVC solvent-weld pipe and fittings shall be of type and installation methods prescribed by the manufacturer. 6. All PVC pipe must bear the following markings: a. Manufacturer's name b. Nominal pipe size c. Schedule or class d. Pressure rating in P.S.I. e. NSF (National Sanitation Foundation) approval f. Date of installation 7. All fittings shall bear the manufacturer's name of trademark, material designation, size, applicable P.S.I. schedule and NSF seal of approval. C. PVC Non-Pressure Lateral Line Piping and Sweating: 1. Non-pressure buried lateral line piping shall be PVC Schedule 40 with solvent-weld fittings. 2. Pipe shall be made from NSF approved Type I, Grade I, PVC compound conforming to ASTM main specification D1754. All pipe must meet requirements as set forth in Federal Specification PS-22-70 with an appropriate standard dimension ratio (S.D.R.). D. Connections between main lines and control valves shall be of Schedule 40 PVC (threaded both ends) nipples and fittings. E. All PVC pipe used on the site shall be from the same manufacturer. F. Drigger Tubing with Pressure Compensating Emitters: Tubing shall be of nominal size 1/2-inch (12 mm) low density, ultra-violet resistant, linear polyethylene tubing with internal pressure-compensating, self-cleaning, linear drippers at a specified interval. G. Inset Barbed Fittings: All inset barbed fittings shall be constructed of molded, ultra-violet resistant, plastic. Each fitting shall have a minimum of two drippers or bars per outlet. All fittings shall be of one manufacturer and shall be available in one of the following configurations: 1. barbed insert fittings 2. male pipe threads (MPT) with barbed insert fittings 3. female pipe threads (FPT) with barbed insert fittings.
<b>2.2 QUICK COUPLER VALVES</b>	A. Quick coupler valves shall be as listed on the Drawings. B. Provide and install automatic irrigation controller in appropriate location shown on Drawings. 120 V.A.C. power and control to outside planting area as shown on electrical drawings. C. Final electrical hook-up shall be the responsibility of the irrigation contractor.
<b>2.3 CONTROLLERS</b>	A. Controllers shall be as listed on the Drawings. B. Provide and install automatic irrigation controller in appropriate location shown on Drawings. 120 V.A.C. power and control to outside planting area as shown on electrical drawings. C. Final electrical hook-up shall be the responsibility of the irrigation contractor.
<b>2.4 LINE FLUSHING VALVE</b>	A. The line flushing valve shall be constructed of black molded plastic and shall be a normally closed hydraulic valve, which flushes based on volumetric quantity of water. Inlet and outlet configurations shall be one of the following configurations: 1. 1/2-inch (12 mm) MPT, or
<b>2.5 REMOTE CONTROL VALVES</b>	C. Inset barbed fitting: The top of the line flushing valve shall be domed shaped to allow water transported debris to drain away from one of the eight orifices in the top of the valve. The valve shall be non-serviceable and capable of automatically operating during initial system pressure built up to discharge one gallon of water per 10 psi demand and 25 psi maximum or 4 psi minimum.
<b>2.6 CONTROL WIRE</b>	A. Remote control valves shall be as noted on irrigation schedule. Sizes of remote control valves shall be as listed on the Drawings.
<b>2.7 DISC FILTER</b>	A. The disc filter body shall be molded of black plastic with male pipe threads (MPT) for both the inlet and outlet ports. A threaded cap on one end of the body shall be capable of periodic servicing by uncoupling the cap from the main filter body. On the 3/4-inch (19 mm) model, a manual shut-off valve shall be connected to the opposing end of the removable cap part of the main body. This device shall be capable of closing off the inlet port to the disc element can be removed when the main line is still pressurized. B. The filter elements shall be either disc-type or a canister screen filter. The disc-type shall be color-coded in one of four colors denoting filtration of 80, 120, 140, and 200 mesh. The canister-type screen shall be available in three levels of filtration, 80, 120, and 140 mesh.
<b>2.8 BOXES FOR AUTOMATIC CONTROL VALVES</b>	A. Boxes for remote control valves shall be Carson Model 1419 plastic valve box. Provide extensions as required to flush box with first grade.
<b>2.9 AIR/VACUUM RELIEF VALVES</b>	A. Air/vacuum relief valves shall be constructed of gray plastic with an internal sliding stopper valve that is capable of venting air or vacuum to the atmosphere only. The main body shall have a 1/2-inch (12 mm) male pipe thread (MPT). B. Operating pressure range for the air/vacuum relief valve shall be 7 psi minimum to 140 psi maximum.
<b>2.10 BACKFLOW PREVENTION UNITS</b>	A. Backflow prevention units shall be of the size and type shown. Install backflow prevention units in accord with irrigation construction details, with positive drainage and room for servicing. B. Wet risers at backflow prevention units shall have a 125-lb (57 kg) flanged cast iron body with 100 mesh screen.
<b>2.11 BALL VALVES</b>	A. Ball valves 2 inches and smaller shall 400 psi/27.8 Bar Non-Shock Cold Working Pressure brass ball valve with Threaded - Standard Port - Flanged-Port Stem - TFE Seal, 90cc, 1/2" NPT.
<b>2.12 DRAIN ROCK</b>	A. Un-fractured rock, 1/2" nominal passing a 1-1/2" (38 mm) square sieve and 0 percent passing a 3/4" (19 mm) sieve.
<b>2.13 PROTECTIVE SLEEVES WITH LOCKING CAPS</b>	A. 2-inch (50 mm) diameter class 200 PVC, length as required. Cast, Rein #3120. Enclose all drain valves in protective sleeves with locking caps.
<b>2.14 SLEEVES FOR PIPING UNDER PAVING</b>	A. PVC class 200, 3/4" size, depth as required for piping. B. Extend piping 12 inches (300 mm) into planter, plug ends and mark at grade with flag label.
<b>2.15 STAINLESS STEEL CLAMPS</b>	A. Tubing clamps shall be constructed to 304 AISI stainless steel and shall be one "tee" type. This "tee" shall be capable of being punched with a punching tool to secure the tubing around the union barbed fitting. B. Interior design shall be smooth to prevent clogging or pinching of tubing.
<b>2.16 MISCELLANEOUS INSTALLATION MATERIALS</b>	A. Solvent cement and primers for solvent weld joints shall be of make and type approved by manufacturer of pipe and fittings. Cement shall be maintained of proper consistency throughout use.
<b>2.17 MISCELLANEOUS EQUIPMENT</b>	A. Provide all equipment called for by the Drawings.
<b>PART 3 EXECUTION</b>	
<b>3.1 REVIEW</b>	A. Site Conditions: 1. All scaled dimensions are approximate. The Contractor shall check and verify all size dimensions and receive Landscape Architect's approval prior to proceeding with work under this section. 2. Exercise extreme care in excavating and working near existing utilities. Contractor shall be responsible for damage to utilities which are caused by his operations or neglect. Check existing utilities drawings for existing utility locations. 3. Coordinate installation of sprinkler irrigation materials, including pipe, so there shall be no interference with utilities or other construction or difficulty in planting trees, shrubs, and ground cover. 4. The Contractor shall carefully check all grades to satisfy himself that he may safely proceed before starting work on the landscape sprinkler system. 5. Coordinate installation of sleeves with other trades.
<b>3.2 PREPARATION</b>	A. Physical Layout: 1. Prior to installation, stake out all pressure supply lines, routing and location of sprinkler heads. Begin 6" pipe layout layer 4 to 8 inches (100 to 150 mm) away from both surfaces (i.e., concrete sidewalks, curbs, asphalt, and/or underground edges, a stone cut masonry). Mark leveling intervals on the ground with flags, pins, or some other markings that can be maintained throughout the installation. 2. Make minor changes to conform to ground conditions and note on as-built drawings. B. Water Supply: 1. Connect to the water supply at the approximate point of connection as indicated on the Drawings. 2. Contractor is responsible for minor changes caused by actual site conditions. C. Electrical Supply: 1. Electrical connections for automatic controller shall be made to electrical points of connections as indicated on the Drawings. 2. Contractor is responsible for minor changes caused by actual site conditions.
<b>3.3 EXCAVATING AND TRIMMING</b>	A. Excavation shall be in all cases ample in size to permit the pipes to be laid at the elevations indicated and to permit ample space for joining. B. Make trenches for pipelines deep enough to provide minimum cover from finish grade as follows: 1. 24 inches minimum cover over main lines to control valves and quick coupling valves. 2. 24 inches minimum cover over control wires from controller to valves. 3. 18 inches minimum cover over lateral lines to sprinkler heads. 4. All lines shall have a minimum clearance of 6 inches (150 mm) from each other and from lines of other trades. Parallel lines shall not be installed directly adjacent or over one another. Reinstall all rejected piping in accordance with this requirement. C. Reasonable Survey, existing underground installations, etc., damaged or cut as a result of excavations, to original conditions in manner approved by the Landscape Architect and Owner's Representative.

LANDSCAPE ARCHITECT

**COLEMAN**

1700 PACIFIC COAST HIGHWAY, SUITE C  
SANTA BARBARA, CALIFORNIA 93101  
TEL: 805-963-1232 FAX: 805-963-1233  
WWW.COLEMANARCHITECTS.COM

project no 23-10298

**THE HOME DEPOT**  
3455 PACIFIC FERRY ROAD, C-19  
ATLANTA, GA 30338-0234  
PHONE: (770) 433-2111

**GRANADA HILLS, CA  
SEC DEVELOPER & BALBOA  
GRANADA HILLS, CA 91304  
STORE: 0000**

**ISSUE DATA**

SUBMISSION:	01 05 24
REVIEW:	05 08 24
CONSTRUCTION:	06 01 24
ISSUE:	06 01 24

DESIGNED BY:

CHECKED BY:

DATE: 05 24 24

**LANDSCAPE SPECIFICATIONS**

**L4.00**

D. Where other utilities interfere with irrigation trenching and pipe work, adjust the trench depth as instructed by the Landscape Architect or Owner's Representative.

### 34. DRIPPER TUBING INSTALLATION

- A. Drigger tubing can be installed in one of the following methods:
1. Over excavation: In small areas, over-excavate the entire area to a depth of 4 inches (100 mm) below finish grade. Plant at specimen holes and shrubs, 1/2 gallon size and larger, then place tubing at the new specified interval indicated on the plans.
  2. Pipe Pulling: In larger areas where ground elevations to be maintained, pressure the pipe pulling machinery shall be used. Purge the air ends of each run for main connection to supply and exhaust headers of rigid PVC pipe. Maintain 4-inch (100 mm) cover.
- B. Drigger tubing can be installed with the water outlets facing upward or downward. Offset the water outlets to form a triangular pattern throughout the tubing layout. In irregular areas, water outlets too close to final improvements shall be capped off with an end cap or plug ring.
- C. Barbed Fittings: Connect dripper tubing to barbed fittings by pushing on and over both barbs until the tubing has seated against another piece of tubing or has butted against another portion of the barbed fitting.
- D. Pipe Clamping: When operating pressure exceeds 45 psi, stainless steel pipe clamps shall be used. Stop clamps over tubing before slipping tubing over barbed fittings. Place clamps between the first and second ridge of the barbed fittings and clamp the "bar" of the clamp tightly. Clamp the "bar" twice to ensure proper seating.

### 35. BACKFILLING

- A. Backfill only after piping has been tested, reviewed and accepted.
- B. Backfill material shall be the earth excavated from the trenches, free from rocks, concrete chunks, and other foreign or coarse materials. Carefully select backfill that is to be placed next to plastic pipe to avoid any sharp objects which may damage the pipe. Place shutoff valve of dirt on immediate tubing to keep them in place and maintain new spacing. If soil is rock-laden, settle from pipe with minimum 2 inches (50 mm) of clean, coarse sand.
- C. All pipe under asphalt paving shall be backfilled with 4 inches (100 mm) of clean sand on all sides of pipe.
- D. Place backfill material in 6 inches (150 mm) layers and compact by jolting or tamping to a minimum compaction of 90 percent of original soil density.
- E. Dress off areas to finish grades and remove excess soil, rocks or debris remaining after backfill is completed.
- F. Settlement occurs along trenches, and adjustments in pipes, valves and sprinkler heads, soil, sod, or paving to the proper level or the permanent grade, subcontractor, as part of the work under this Contract, shall make all adjustments without extra cost to the Owner.

### 36. PIPING

- A. Use piping as indicated on drawings. Install in accordance with industry standards and manufacturer's recommendations.
- B. Install all PVC piping using two-step solvent weld process only. Cure joints at least 24 hours.
- C. Part of all galvanized pipe below grade with at least one heavy coat of approved paint to prevent corrosion.
- D. Cap or plug openings as pipeline is assembled to prevent entrance of dirt or obstruction. Remove caps or plugs only when necessary to continue assembly.
- E. Where pipes or control wires pass through sleeves, provide removable runout decoupling plug at ends of sleeves to prevent entrance of earth.

### 37. REMOTE CONTROL VALVES

- A. Install where shown and group together in straight lines where practical. Limit one remote control valve per box.
- B. Locate valves no closer than 12 inches (300 mm) from walk edges, building walls. Install valve box parallel to walk, curb or edge.
- C. Thoroughly flush main line before installing valve.
- D. Install in planting areas where possible.

### 38. DISC FILTER

- A. Install the disc filter horizontally level, below grade and as indicated in the installation details. The position of the disc filter in the valve box will be off-center in place for removal of the disc element for periodic servicing.

### 39. AIR/VACUUM RELIEF

- A. Install the maximum relief valve below grade and at the highest elevation within each zone. Depending on the site conditions and tubing layout, multiple atmospheric relief valves will be required. Place the valve within a round valve box with a locking cover and 8 1/4" x 1 1/4" (214 mm) grommet gasket as noted on the details.
- B. Interconnect tubing with an atmospheric relief lateral perpendicular to other tubing laterals for systems that are located on mounds or berms with more than a 3-foot (900 mm) elevation differential.

### 310. LINE FLUSHING VALVE

- A. Install the line flushing valve horizontally level and below grade at each exhaust header. Locate in a valve box with the dome shape of the valve facing upward. Include a minimum of 1 cu. ft. of 3/4 inch (19 mm) gravel in the bottom of the valve box.

### 311. AUTOMATIC CONTROL WIRING

- A. Run lines along masts whenever practical. The wires in bundles with pipe wrapping tape at 10-foot (3 meter) intervals and slow stick for connection between strappings.
- B. Loop a minimum of 3 feet (900 mm) of extra wire in each valve box, for control wire, spares and ground wire.
- C. Connections shall be made by crimping bare wires with brass connectors and sealing with epoxy resin sealer paste.
- D. Wiring will be permitted only on runs exceeding 500 feet (150 m). Locate all splices at valve locations within valve boxes. All splicing shall be made with Scotch-Lok #1576 connector sealing packs or approved. Field splices between the automatic controller and electrical control valves will not be allowed without prior approval of the Landscape Architect or Owner's Representative.
- E. Where control wires line pass under paving, they shall pass through PVC class 200 sleeves.
- F. Provide two complete spare wire runs from controller through every valve box for future use. Test for continuity at punch list. Provide an extra 3 feet (900 mm) in each valve box and permanently label "Spare".

### 312. AUTOMATIC CONTROLLER

- A. Control control lines to controller in sequential arrangement according to assigned identification number of valve. Control lines shall be labeled at controller with permanent non-fading labels indicated identification number of valve controlled.

### 313. FLUSHING OF SYSTEM

- A. After all new sprinkler pipe lines and risers are in place and connected, all necessary dimension work has been completed, and prior to installation of sprinkler heads, open control valves and use a full head of water to flush out the system.
- B. Install sprinkler heads only after flushing of system has been accomplished and approved by the Landscape Architect or Owner's Representative.

### 314. SPRINKLER HEADS AND CHECK COUPLER VALVES

- A. Thoroughly flush lines before installing heads or DCVs.
- B. Locate heads and DCVs as shown in the Drawings and details.
- C. Adjust sprinkler heads for proper distribution and trim. In no case shall spacing exceed maximum recommended by the manufacturer and as listed on the Drawings.

### 315. EXISTING TREES

- A. Where it is necessary to excavate adjacent to existing trees, the Contractor shall use all possible care to avoid injury to trees and tree roots.
- B. Excavation in areas where 2 inches (50 mm) and larger roots occur shall be done by hand.
- C. All roots 2 inches (50 mm) and larger in diameter directly in the path of pipe or conduit, shall be banded under and shall be heavily wrapped with burlap, to prevent or minimize any desiccating dry.
- D. Where a digging machine is used, close to trees having roots smaller than 2 inches (50 mm) in diameter, the wall of the trench adjacent to the tree shall be hand finished, making clean cuts through.
- E. Trenches adjacent to trees shall be closed within 24 hours; and, where this is not possible, the side of the adjacent to the trees shall be kept shaded with burlap or canvas.

### 316. FIELD QUALITY CONTROL

- A. Adjustment of the System:
1. The Contractor shall flush and adjust all drip lines for optimum performance and to prevent overwatering onto walks, roadways, and buildings as much as possible.
  2. If it is determined that adjustments in the irrigation equipment will provide proper and more adequate coverage, the Contractor shall make such adjustments prior to planting. Adjustments may include changing in nozzle sizes and degrees of arc.
  3. All sprinkler heads shall be set perpendicular to finish grade unless otherwise designated on the drawings.
- B. Testing of Irrigation System:
1. The Contractor shall request the presence of the Landscape Architect in writing at least 3 business days in advance of testing.
  2. Test all pressure lines under hydraulic pressure of 150 pounds per square inch, and prove watertight for 1/2 hour with maximum 5 psi loss.
  3. Suspect pressure in lines for less than two hours. If leaks develop, replace pipes and repeat test until entire system is proven watertight.
  4. All hydraulic tests shall be made only in the presence of the Landscape Architect. No pipe shall be backfilled until it has been reviewed, tested and accepted in writing.
  5. Furnish necessary forms, pumps and all other test equipment.
  6. When the landscape irrigation system is completed, perform a coverage test in the presence of the Landscape Architect to determine if the water coverage for planting areas is complete and adequate. Furnish all materials and perform all work required to correct any inadequacies of coverage due to deviations from plans, or where the system has been partially installed as indicated on the Drawings when it is obviously inadequate, without bringing this to the attention of the Landscape Architect or Owner's Representative. This test shall be accomplished before any ground cover is planted.
  7. Upon completion of each phase of work, entire system shall be tested and adjusted to meet site requirements.

### 317. MAINTENANCE

- A. The entire irrigation system shall be under full automatic operation for a period of 7 days prior to any planting.
- B. The Landscape Architect or Owner's Representative reserves the right to waive or shorten the operation period.

### 318. CLEAN-UP

- A. Clean-up as each portion of work progresses. Remove refuse and excess dirt from the site. Sweep or wash all walks and paving. Repair any damage sustained to the work of others to original conditions.

### 319. PUNCH LIST REVIEW PRIOR TO ACCEPTANCE

- A. The Contractor shall operate each system in its entirety for the Landscape Architect at time of punch list review. Any items deemed not acceptable by the reviewer shall be reworked to the complete satisfaction of the Landscape Architect or Owner's Representative.
- B. The Contractor shall show evidence to the Landscape Architect or Owner's Representative that the Owner has received all accessories, charts, record drawings, and equipment as required before final review can occur.
- C. No review will commence without as-built drawings. In the event the Contractor calls for a review without as-built drawings, without completing previously noted corrections, or without preparing the system for review, he shall be responsible for reimbursing the Architect at the rate of \$150 (three hundred dollars) per hour per day to provide (a) transportation costs for the inconvenience. No further review will be scheduled until this charge has been paid.

### 320. EXTENDED MAINTENANCE

- A. In addition to the minimum required until final acceptance, provide irrigation maintenance for a period of one year after final acceptance of the entire project for all new and existing modified work per Division 2 Section "Landscape and Irrigation Maintenance".
- B. The installer shall also provide the Owner with a fee to perform the maintenance required for a period of one year the 90-day Extended Maintenance Period per Division 2 Section "Landscape and Irrigation Maintenance".

### END OF SECTION

### LANDSCAPE PLANTING

#### PART 1 GENERAL

##### 1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

##### 1.2 SUMMARY

- A. Section Includes all materials, equipment and labor necessary for finish grading, planting of trees, shrubs and ground cover and lawn, and rough grass seeding, protection, guarantee and replacement, one year extended maintenance and related items necessary to complete work indicated on the Drawings and/or specified. Maintenance requirements are specified in Section Landscape and Irrigation Maintenance.

##### 1.3 QUALITY ASSURANCE

- A. Installer/Supplier Qualifications:
1. To be "Specified" with minimum five (5) years experience in the field.
  2. Under this section, either the Supplier, or an individual or firm under the Supplier's direct supervision, is to perform the work. In other case, he/she is to be registered in the State of California.
- B. Plant Material to be in accordance with the following reference specifications where applicable:
1. "Ornamental Evergreen and Deciduous Plants, Nursery Stock Standards for the Department of Agriculture" (Order No. 1229, 1230, 1231, 1232).
  2. "Nursery Standard for Nursery Stock" (ANSI), current edition.
  3. Hortus III, current edition.
  4. Plant names shall conform to the latest edition of "Standardized Plant Names" as adopted by American Joint Committee of Horticulture Nomenclatures.
- C. Fertilizer: Conform to California State Department of Agriculture Laws and Federal Specification F-2410 pertaining to commercial fertilizers.
- D. Seed: Conform to USDA laws for seed certification.

##### 1.4 ACTION SUBMITTALS

- A. Within 20 days after award of contract, submit documentation that all plant material, seed, and sod has been ordered.
- B. Submit for review the following items:
1. One quart liquid sample for each type specified.
  2. One quart media sample.
  3. One quart compost sample.
- C. Submit 3 copies of planting schedule showing scheduled dates for each type of planting in each area of site within 30 days after award of contract.
- D. Submit source and proposed fertilizers including manufacturer's cut sheets.

##### 1.5 SUBSTITUTIONS

- A. Approval of substitutions will be made only in exceptional cases when the Contractor submits satisfactory evidence that, through no fault of his own, specified or otherwise approved items cannot be obtained in time to avoid delay of the work. In any case, substitutions are subject to acceptance by the Landscape Architect and Owner's Representative.
- B. Trees and shrubs of larger size may be used if acceptable to Landscape Architect and Owner's Representative, and if sizes of roots or balls are increased proportionately.

##### 1.6 PRODUCT DELIVERY, STORAGE AND HANDLING

- A. Deliver packaged materials in containers showing weight, analysis and name of manufacturer. Protect materials from deterioration during delivery and while stored at the site.
- B. Trees and Shrubs
1. Provide healthy dug trees and shrubs. Do not use trees or shrubs which have been in cold storage or broken.
  2. Do not prune prior to delivery. Do not bend or blind trees or shrubs in such a manner as to damage bark, branch or destroy natural shape. Provide protective covering during delivery.
  3. Deliver trees and shrubs after preparation for planting have been completed and plant. Immediately, if planting is delayed more than 8 hours after delivery, set trees and shrubs in shade, protect from weather and mechanical damage, and keep roots moist.
- C. Do not remove container grown stock from containers until planting time.
- D. Seed: Store seed as recommended by supplier.
- E. Sod: Protect plants of sod from sun and water thoroughly.

##### 1.7 JOB CONDITIONS

- A. Installer must ensure the sub-grade, verify the elevations and observe the conditions under which work is to be performed. Do not proceed with the work until satisfactory conditions have been confirmed in a manner acceptable to the installer.
- B. Proceed with and complete the landscape work as rapidly as portions of the site become available, working within the seasonal limitations for each kind of landscape work required.
- C. Determine location of underground utilities and perform work in a manner which will avoid possible damage. Hand excavate, as required, to minimize possibility of damage to underground utilities. Maintain grade stakes set by others until removed or mutually agreed upon by all parties concerned.
- D. When conditions deemed to plant growth are encountered, such as stable soil, adverse drainage conditions, or obstructions, notify Landscape Architect and Owner's Representative before planting. Take any steps required to improve drainage, including mounding around tree/balls, dry lighting pits, and adjustments to locations with owner approval.
- E. Plant or install materials during normal planting seasons for each type of landscape work required. Consider planting with specified maintenance period to provide maintenance for one year after acceptance by the owner.
- F. Provide all necessary supports, as approved and/or required by the Landscape Architect and Owner's Representative, for the protection of all planted areas until final reinspection is accomplished, or for such time as it requires to assure vigorous establishment of the plant material.

##### 1.8 GUARANTEE

- A. Guarantee trees, shrubs and ground cover for a period of one year after date of acceptance against defects including death and unsatisfactory growth, except for defects resulting from neglect by Owner, abuse or damage by others, or unusual phenomena or incidents which are beyond Landscape Contractor's control. Replace all dead plants and plants with numerous dead limbs in the same size as those originally planted.
- B. Seeded/Sodded Lawn Areas: Guarantee a relatively uniform, acceptable stand of grass with no bare spots over 3-inch (75 mm) square in seeded or sodded areas at time of punch list review. Re-install, in the manner originally specified, any area which fails to vigorously establish uniform stand for any reason whatsoever. Fill to finish grade with approved topsoil and reseed or re-sod all areas which evidence settlement. Repeat as required until final acceptance at Contractor's expense.
- C. Remove and replace trees, shrubs and ground cover found to be dead or in unhealthy condition during guarantee period. Plant missing trees, shrubs and plants. Make replacements during growth season following end of guarantee period. Furnish and plant replacements which comply with requirements shown and specified. Also, replace trees and shrubs, which are in doubtful condition at end of guarantee period, unless, in the opinion of the Landscape Architect and Owner's Representative, it is advisable to extend guarantee period for a full growing season.
- D. The Landscape Architect and Owner's Representative will review at the end of the extended guarantee period, if any, to determine the acceptance or rejection.
- E. Rough seeded areas: Guarantee a relatively uniform, acceptable stand of grass with no bare spots over 12 inch (300 mm) square at time of punch list review. Reseed any areas, which fail to vigorously establish a uniform stand for any reason whatsoever. Repeat as required until final acceptance at Contractor's expense.

##### 1.9 FIELD QUALITY CONTROL AND SITE REVIEWS

- A. Required Site Visits During Construction:
1. Pre-Installation Conference: Contractor, Installer, Landscape Architect, Owner's Representative, and other pertinent parties to attend Pre-Installation Conference to discuss landscape and irrigation prior to starting work on site.
  2. Landscape Architect will make 3 site visits during construction to review the following landscape items:
    - a. Subgrade prior to placement of sod.
    - b. Finish grade prior to any planting or seeding.
    - c. Plant material prior to installation.
    - d. Staked plant locations prior to installation.
  3. Punch List Review: Landscape Architect will make one site visit to review the completed work. Landscape Architect to obtain Contractor's Punch List prior to visit and to schedule the visit when the work is complete enough to require the need for additional work.
- B. Required Site Visit After Construction:
1. Landscape Architect will make a one year Guarantee Site Visit.
  2. Submit reports of site visits to Architect and Owner.
- D. Site Visit Schedule: Contractor shall be responsible for notifying the Landscape Architect and Owner's Representative in advance for the following reviews, according to the time indicated:
1. Pre-Installation Conference: 5 business days.
  2. Other Site Visits During Construction: 3 business days.
  3. Punch List Review: 3 business days.
  4. One Year Guarantee Site Visit: 10 business days.
  5. Punch List Review: Landscape Architect will make one site visit to review the completed work. Landscape Architect to obtain Contractor's Punch List prior to visit and to schedule the visit when the work is complete enough to require the need for additional work.

##### 1.10 PROTECTION

- A. Protect materials against harm from wind and unusual weather. Special planting techniques, defolting, wet-pruning, or spray misting may be required by Landscape Architect for unusual planting, prolonged periods of drought, and the like.
- B. Soak significantly dry root balls before planting.
- C. Perform no work in, over, or adjacent to planting areas without proper protection and safeguards.
- D. Protect surrounding areas and surfaces on products damage, including erosion and trespassing, and injury to the public.
- C. Take particular care to prevent pavement staining from fertilizers.

### LANDSCAPE ARCHITECT



project no 23-10298

### OWNER:

- GRANADA HILLS CA SEC DEVONSHIRE A BALBOA GRANADA HILLS CA 91304 STORE 0000



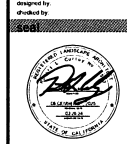
THE HOME DEPOT  
2555 FACES FERRY ROAD, C-19  
ATLANTA, GA 30339-6024  
PHONE: (770) 433-6211

GRANADA HILLS CA  
SEC DEVONSHIRE A BALBOA  
GRANADA HILLS CA 91304  
STORE 0000

### ISSUE DATES

Submission:	01/19/24
1 - (R)1	revised
2 - (R)1	revised
3 - (R)1	revised

revision: 1



03/28/24

### LANDSCAPE SPECIFICATIONS

# L4.01

PART PRODUCTS

21 TOPSOIL

- A. Planting Mix: specified topsoil amended with twenty-five (25%) percent (by volume) native soils from planting pit.
B. Imported Topsoil: Screened, sandy loam, weed free, minimum six (6%) percent organic material, as approved by Landscape Architect or Owner's Representative.

22 PLANTS / SEED

- A. Conform to American Association of Nurserymen's specifications true to name. Plants to be first quality, well fertilized with well-developed root systems and a normal, well-shaped trunk, limbs, stems and a head.
B. Acidify any plant materials not grown in California for a minimum of one growing season prior to installation.
C. Deciduous Trees
D. Deciduous Shrubs
E. Coniferous and Broadleaved Evergreens
F. Ground Cover: Provide plants established and well-rooted in removable containers and with not less than the minimum length of runners required by ANSI Z60.1 for the pot size shown or listed.

23 FERTILIZERS AND SOIL AMENDMENTS

- A. General: Approved brands conforming to applicable state fertilizer laws. Uniform in composition, dry, free flowing, delivered to the site in original unopened containers, each bearing the manufacturer's guaranteed analysis.
1. ORGANIC AMENDMENTS
a. Organic Amendment shall be derived from bark of white fir, red fir or pine; nitrogen stabilized; ground, and screen sized.
2. Nitrogen Content - 0.5% based on dry weight for redwood sawdust, 1.0% based on dry weight for fir or pine bark.
3. Baffinity - maximum conductivity 4.8 millimohm/cm at 25 degrees C, as measured by extraction extract method.
4. Organic content - minimum 90% based on dry weight.
5. Acceptable products meeting these specifications are Forest Humus by Beagles Forest Products, Forest Bark Humus by Beagles Horticultural Products, Bark Humus by Long Beach Redwood Corporation, or other approved equal as approved by the Owner's Representative.
2. ORGANIC FERTILIZER
a. Organic Fertilizer shall be processed sewer sludge with minimum content of 1% Nitrogen and 2% Phosphoric Acid, which has been processed in such a manner as to retain the normal bacteria content.
3. COMMERCIAL FERTILIZER
a. Commercial fertilizer shall be "Oro-Power" 5-3-1, as supplied by Southern California Organic Fertilizer Company, 16-4-8 commercial fertilizer, 12-12-12 commercial fertilizer, or as otherwise noted on plans.
4. MINERALS AND ELEMENTAL SOIL AMENDMENTS
a. Fertilizer shall be first-grade commercial quality, with a minimum of 20% metallic iron.
b. Soil Sulfur shall be approximately 99% sulfur.
c. Phosphate fertilizers shall be supplied as single or triple superphosphate.
d. Ammonium Phosphate shall be noted 11-46-0.
e. Ammonium Sulfate shall be noted 20-0-0.
f. Gypsum shall be of standard agricultural grade.
g. Calcium carbonate lime shall be first quality commercial grade.
h. Potassium nitrate shall be first quality commercial grade.
i. Fine sand shall be a standard horticultural product, clean and free from foreign matter or chemical contamination, suitable for incorporating into planting soil.
B. Trees, Shrubs and Ground Cover
1. Starter fertilizer with rooting hormone, 10% water soluble, apply at manufacturer's recommended rate.
2. Planting tables: 21 gram size, 20-10-5 analysis. Apply at a rate of
a. Trees - 4 tables per tree
b. Shrubs - 2 tables per shrub
c. Ground cover - 1 table each plant
C. Seeded and Sodded Areas: High quality balanced (N, P, K, pH) fertilizer designed for region and local soils, as recommended in soils report, including slow release nitrogen.
24 STAKES AND GUY'S
A. Material as per standard detail.
25 MULCH
A. Ground fir or hemlock bark (no pine) of uniform color, free from weeds, sawdust, and splinters, and shall not contain resin, tar, wood fiber, salts, or other compounds detrimental to plant life.
26 HYDROMULCH
A. Silted wood fiber mulch and emulsifier as approved.
27 TACKIFIER
A. Tack or approved equal. Apply at manufacturer's suggested rate (minimum 40 lbs./acre) on all seeded slopes over 3:1.

PART EXECUTION

3.1 REVIEW

- A. Verify installation conditions as satisfactory to resolve work of this section. Do not install until unsatisfactory conditions are corrected.
B. Verify sub-grades and final grades in rough seeded areas as properly prepared.
C. Verify grades with Architect, Owner's Representative and General Contractor before commencement of planting, preferably at time of staking and layout.
D. Give appropriate notice of adverse drainage conditions.
E. Give appropriate notice of contaminants (discarded) if other trades, such as thinner, cementitious products, and the like.

3.2 FINISH GRADING

- A. Finish grade at planting, lawn and rough seeded areas and final grade as may be necessary or incidental to all planting operations.
B. Sub-grades shall be established at the following depths below finish grade:
1. Planting Areas within 10 feet (3 m) of buildings: 8 inches (203 mm), consisting of 6 inches (150 mm) topsoil and 2 inches (50 mm) mulch.
2. Other Planting Areas: 8 inches (150 mm), consisting of 4 inches (100 mm) topsoil and 2 inches (50 mm) mulch.
3. Rough Grass: Finish grade of rough grass areas using on site material.
4. Lawn Areas: 4 inches (100 mm).
C. Acceptable Tolerance: One inch (25 mm) plus or minus throughout, 1/2-inch (12 mm) adjacent to paving or enclosures.
D. Prior to planting topsoil in areas, thoroughly moist all planting and lawn areas to a depth of 6 inches (150 mm).
E. Rake, flat, drag, roll, and perform all necessary operations to remove surface irregularities and to provide a firm, smooth surface with positive surface drainage.
F. Grade as indicated after installation of topsoil and mulch with adjacent surfaces unless otherwise specified or detailed.

3.3 PERFORMANCE

- A. Planting Time: Plant trees, shrubs and ground covers during periods which are normal for such work, as determined by season, weather conditions, and accepted practice.
B. Plant Location:
1. After placement of topsoil, stake tree locations and position shrubs above ground as per Drawings for approval.
2. All plants are required to have positively draining pits.
C. Planting Trees:
1. Excavate tree pits twice the diameter of the root ball.
2. Place trees upright in center of hole with fresh grade, release root covering or spread roots.
3. Fertilize trees at the specified rate applied uniformly around circumference of root spread under a cover of 2 inches (50 mm) of planting mix.
D. Planting Shrubs and Ground Cover:
1. After topsoil placement and approval of finish grade, excavate planting pockets at locations shown on Drawings and as directed to a diameter of twice the root spread and to a depth that will leave a 3-inch (75 mm) cushion of compacted planting mix below the root ball.
2. Place plants upright in center of hole with fresh grade, release root covering or spread roots.
3. Fertilize at the specified rate applied uniformly around the circumference of the root spread under a cover of 2 inches (50 mm) of planting mix.
E. Sodding:
1. Soil Preparation: As per "Finish Grading" section.
2. Lay fresh sod with tight, staggered joints in a running bond pattern.
3. In sloped areas, lay sod up and down slope.
4. After setting, water sod thoroughly to 8 to 10 inch (200 to 250 mm) depth.
5. Repair any depressions, which develop through guarantee period.

F. Seeding:

- 1. Seed using specified mix with hydromulch, emulsifier, fertilizer and zinc or other approved stabilizer for all slopes over 3:1.
2. Prior to seeding, water area to a minimum depth of 6 inches (150 mm).
3. Overseed any bare areas quickly and repair any settlement to provide a full, even, vigorous stand of grass.

G. Mulching:

- 1. Immediately after completion of all planting, mulch all planted areas to a minimum compacted depth of 2 inches (50 mm).
H. Pruning and Repair:
1. Upon completion of the work under this contract, all trees shall be pruned as directed by the Landscape Architect and Owner's Representative and any higher required.
2. Pruning shall be done in such a manner as not to change the natural habit or shape of the plant.

3.4 MAINTENANCE/PLANT MATERIALS

- A. Begin maintenance following installation of each tree/shrub, ground cover, or lawn area and continue as follows until final acceptance:
B. Include watering, weeding, spraying, fertilizing, mowing, lightening and replying of stakes, removal of dead materials, erosion repair, reseeded, reseeding, resetting plants to proper grades and upright position, and other required operations, as frequently as needed.
C. Protect and maintain until acceptance of the project, or agreed (in writing) partial-acceptance.
D. Replace any vandalized plant materials until the work is accepted by Owner.
E. As soon as conditions permit with normal planting seasons, remove dead or unsatisfactory plants from site, as determined by the Landscape Architect or Owner's Representative.
F. Identify replacements and take whatever necessary steps to prevent similar demise of plant materials.

3.5 CLEANING

- A. Daily Cleanup: Keep site areas clean, neat and orderly.
1. Exclude dirt and rubbish from paved and planted areas.
2. Prior to final review, remove deleterious materials and debris.
3. Rake neatly around plants to an even final grade.
4. Wash hard surfaces clean.
5. Remove Bag labels from trees and shrubs.

B. Final Cleanup: Maintain areas in clean, neat and orderly manner:

- 1. Prior to final review, remove deleterious material and debris.
2. Rake and clean planting areas neatly to an even final grade, with no weeds present.
3. Wash and clean hard surfaces, including parking and walk areas, solely by work of this section.
4. On acceptance of the work, remove surplus material, equipment and debris from the site.
3.6 PLANT SCHEDULE AND DETAILS
A. See Drawings.
3.7 EXTENDED MAINTENANCE
A. In addition to the maintenance required until final acceptance, provide landscape maintenance for a period of ninety (90) days after substantial completion per Division 2 Section "Landscape and Irrigation Maintenance".
B. The installer shall provide the "Owner" with a plan to perform the maintenance required for a period of one year per the 90 day Extended Maintenance Period per Division 2 Section "Landscape and Irrigation Maintenance".

END OF SECTION

landscape architect logo with contact information for L.A. CURTIS ARCHITECTS, INC. including address, phone, and website.

project no 23-10298



THE HOME DEPOT 3455 PACES FERRY ROAD, C-18 ATLANTA, GA 30338-0231 PHONE: (770) 433-2111

PROJECT INFO GRANADA HILLS, CA SEC 26/09/SHIRAZ & BALDOSA GRANADA HILLS, CA #1344 STORE: 0000

Table with columns: SUBMITTALS, PERMITS, CONSTRUCTION, REVISES, and description. Includes dates and quantities for each category.

designed by: [Signature] RC checked by: [Signature] RC



LANDSCAPE SPECIFICATIONS L4.02

