

PROJECT PLANS FOR CONSTRUCTION OF RAMSAY PARK PHASE IV: GREEN INFRASTRUCTURE IMPROVEMENTS

IN THE CITY OF WATSONVILLE, CALIFORNIA



VICINITY MAP
Scale: NTS



SITE MAP
Scale: 1"= 30'

RELEVANT SPECIFICATIONS

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- 01 26 00 CONTRACT MODIFICATION PROCEDURES
- 01 29 00 PAYMENT PROCEDURES
- 01 31 00 PROJECT MANAGEMENT AND COORDINATION
- 01 32 00 CONSTRUCTION PROGRESS DOCUMENTATION
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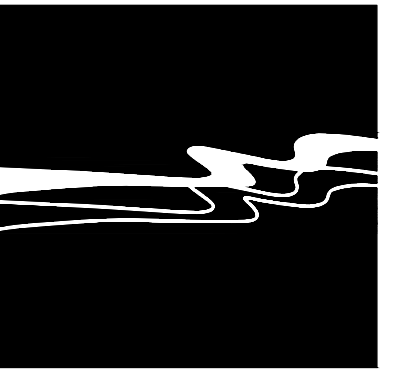
ABBREVIATIONS

AC	ASPHALTIC CONCRETE
ACP	ASBESTOS CEMENT PIPE
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
ARV	AIR RELEASE VALVE
ASV	AIR AND VACUUM (COMBINATION) VALVE
AVG	AVERAGE
BC	BEGIN CURVE
BFV	BLIND FLANGE
BIA	BUREAU OF INDIAN AFFAIRS
BLDG	BUILDING
BM	BENCH MARK
BO	BLOW OFF
BV	BALL VALVE
C	CURB
CAV	COMBINATION AIR VALVE
CATV	CABLE TELEVISION
CI	CAST IRON
CL	CENTERLINE
CLASS	CLASS
CMP	CORRUGATED METAL PIPE
CO	CLEANOUT
CONC	CONCRETE
CONST	CONSTRUCTION
CONT	CONTINUOUS
CP	CATHODIC PROTECTION
CPLG	COUPLING
CY	CUBIC YARD
DET	DETAIL
DIA	DIAMETER
DIM	DIMENSION
D/W	DRIVEWAY
E	EXISTING
EA	EACH
EC	END CURVE
ELE	ELEVATION
EP	EDGE OF PAVEMENT
EX	EXISTING
EG	EXISTING GROUND
FCA	FLANGE COUPLING ADAPTOR
FDC	FIRE DEPARTMENT CONNECTION
FF	FINISH FLOOR
FG	FINISH GRADE
FH	FIRE HYDRANT
FL	FLOW LINE
FL	FIRE LINE
FLG	FLANGE
FS	FINISH SURFACE
FT	FEET
G	GAS
GA	GAGE
GAL	GALLON
GALV	GALVANIZED
GB	GRADE BREAK
GPD	GALLONS PER DAY
GPM	GALLONS PER MINUTE
GV	GATE VALVE
HC	HANDICAP
HDPE	HIGH DENSITY POLYETHYLENE
HGL	HYDRAULIC GRADE LINE
ID	INSIDE DIAMETER
IN	INCHES
INV	INVERT
JP	JOINT POLE
JT	JOINT UTILITY TRENCH
L	LENGTH
LAT	LATERAL
LF	LINEAR FEET
LP	LIGHT POLE
LT	LEFT
M	METER
MAX	MAXIMUM
MIN	MINIMUM
MISC	MISCELLANEOUS
MH	MANHOLE
N/A	NOT APPLICABLE
NGVD	NATIONAL GEODETIC VERTICAL DATUM
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OD	OUTSIDE DIAMETER
PCC	PORTLAND CEMENT CONCRETE
PH	POT HOLE (UTILITY WAS POT HOLED)
PIV	POST INDICATOR VALVE
POC	POINT OF CONNECTION
PRV	PRESSURE REGULATING VALVE
PSF	POUND PER SQUIRE FOOT
PSI	POUND PER SQUARE INCH
PVC	POLYVINYL CHLORIDE
R	RADIUS
RC	REINFORCED CONCRETE
RCP	REINFORCED CONCRETE PIPE
REQD	REQUIRED
RT	RIGHT
R/W	RIGHT OF WAY
RET WALL	RETAINING WALL
SS	SANITARY SEWER
SCH	SCHEDULE
SD	STORM DRAIN
SHT	SHEET
SPEC	SPECIFICATIONS
SSFM	SANITARY SEWER FORCE MAIN
STA	STATION
STD	STANDARD
STL	STEEL
SW	SIDEWALK
T	TELEPHONE
TB	THRUST BLOCK
TB	TOP OF BANK
TC	TOP OF CURB
TF	TOP OF FOOTING
TG	TOP OF GRATE
TP	TOP OF PAVEMENT
TYP	TYPICAL
TW	TOP WALL
UTL	COMMON TRENCH UTILITIES
VAR	VARIES
VC	VERTICAL CURVE
VIC	VICTAULIC COUPLING
VERT	VERTICAL
W	WATER
WF	WIDE FLANGE
WL	WATER LINE
WM	WATER METER
WS	WATER SERVICE
WV	WATER VALVE
WWM	WELDED WIRE MESH
WW	WET WELL



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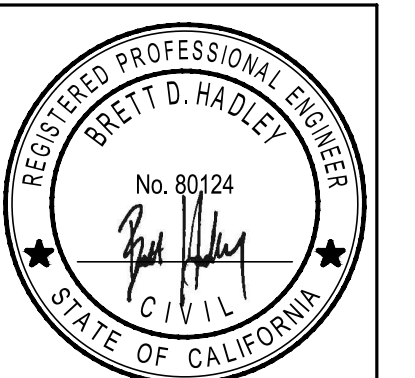
*NOTE: THIS IS A STANDARD SET OF ABBREVIATIONS.
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CITY OF WATSONVILLE
RAMSAY PARK GREEN INFRASTRUCTURE
TITLE SHEET

JOB #: 1535-0007
DESIGNERS: BDH
DRAWN BY: WES
DATE: 07/09/24

DRAWING NO.

C-1.0

1 OF 19 SHEETS

GENERAL NOTES

1. THESE PLANS ARE PART OF A SET OF CONTRACT DOCUMENTS AND SHALL NOT BE CONSIDERED THE SOLE SOURCE OF CONSTRUCTION INFORMATION. ALL CONSTRUCTION WORK AND INSTALLATIONS SHALL CONFORM TO THE CITY OF WATSONVILLE STANDARDS AND SPECIFICATIONS, THE CONTRACT DOCUMENTS AND WORK SHALL BE SUBJECT TO THE APPROVAL OF THE PUBLIC WORKS DEPARTMENT.
2. THE CONTRACTOR SHALL HAVE COPIES OF THE APPROVED CONTRACT DOCUMENTS FOR THIS PROJECT ON THE SITE AT ALL TIMES AND SHALL BE FAMILIAR WITH ALL APPLICABLE STANDARDS AND SPECIFICATIONS.
3. CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE DURING THE COURSE OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD THE ENGINEER AND OWNER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR ENGINEER, OR THIRD PARTY IN VIOLATION OF THE LAW OR IN TRESPASS. THE CONTRACTOR SHALL PRACTICE SAFETY AT ALL TIMES AND SHALL FURNISH, ERECT, AND MAINTAIN, SUCH FENCES, BARRICADES, LIGHTS, AND SIGNS NECESSARY TO GIVE ADEQUATE PROTECTION TO THE PUBLIC AT ALL TIMES.
4. INFORMATION PERTAINING TO EXISTING UNDERGROUND FACILITIES IS BASED ON RECORD INFORMATION AND IS SHOWN FOR INFORMATION PURPOSES ONLY. UNDERGROUND FEATURES SHOWN IN PLAN VIEW ON THE PLANS ARE INDICATED WITH THEIR APPROXIMATE LOCATION AND EXTENT, AND MAY NOT APPEAR IN PROFILE OR SECTION VIEWS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL AGENCIES INVOLVED AND SHALL LOCATE ALL FACILITIES PRIOR TO EXCAVATION IN ANY AREA. THE CONTRACTOR SHALL CALL UNDERGROUND SERVICE ALERT (USA), TOLL FREE AT 811, THE CITY OF WATSONVILLE PRIOR TO THE START OF CONSTRUCTION.
5. THE CONTRACTOR SHALL CONTINUALLY REVIEW JOB SITE CONDITIONS, CONDITIONS REQUIRING CONSTRUCTION DIFFERENT FROM THAT SHOWN ON THE PLANS SHALL BE REPORTED TO THE ENGINEER PRIOR TO PROCEEDING WITH THE AFFECTED CONSTRUCTION.
6. THESE DRAWINGS REPRESENT THE FINISHED CONDITION AND UNLESS OTHERWISE INDICATED, THEY DO NOT SHOW THE METHOD OF CONSTRUCTION.
7. ALL IMPROVEMENTS SHOWN OR INDICATED ON THESE DRAWINGS ARE TO BE CONSTRUCTED AND/OR INSTALLED BY THE CONTRACTOR IN THIS PROJECT, UNLESS THEY ARE CALLED OUT AS: "EXISTING", "FUTURE", "NIC", NOT A PART, OR HAVE SOME OTHER EXCLUDING NOTATION.
8. CONTRACTOR SHALL KEEP A SET OF PROJECT DRAWINGS ON WHICH RECORD INFORMATION SHALL BE PLACED NOTING DEVIATIONS FROM THE PLANS IN THE LOCATION, GRADE, SIZE, TYPE, AND SCOPE OF WORK WHICH IS CONSTRUCTED.
9. THE ENGINEER OF WORK SHALL PERFORM PERIODIC REVIEWS OF COMPLETED WORK TO DETERMINE CONFORMANCE WITH THE APPROVED PLANS. CONTRACTOR SHALL CORRECT ANY DIFFERENCES FOUND BY SUCH SURVEY AND WILL PROVIDE ALL CONTRACTOR'S RECORDS KEPT DURING THE COURSE OF CONSTRUCTION TO THE ENGINEER OF WORK FOR PREPARATION OF RECORD DRAWINGS. ENGINEER WILL PREPARE SUCH RECORD DRAWINGS UPON COMPLETION OF THE WORK AND PRIOR TO CITY'S FINAL INSPECTION.
10. OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) REQUIREMENTS AND STANDARDS SHALL BE OBSERVED AT THE JOB SITE AT ALL TIMES.
11. ALL CONSTRUCTION SHALL BE IN COMPLETE COMPLIANCE WITH ALL RECOMMENDATIONS AND REQUIREMENTS AS SET FORTH IN THE SOILS REPORT: RAMSAY PARK IMPROVEMENTS, PACIFIC CREST ENGINEERING INC., DATED JANUARY 2020.
12. DRY UTILITY LINES ARE SHOWN FOR REFERENCE ONLY. CONTACT PROJECT OWNER FOR UTILITY COMPANY PLANS.
13. PRIOR TO FINAL INSPECTION AND/OR CERTIFICATION OF OCCUPANCY THE COUNTY HEALTH DEPT SHALL APPROVE & INSPECT THE CROSS CONNECTION DEVICES
14. CONTRACTOR TO WORK WITHIN THE FOLLOWING CONSTRUCTION HOURS:
 MONDAY - FRIDAY 7:00am - 6:00pm
 SATURDAY 8:00am - 5:00pm
 SUNDAY NO WORK ALLOWED

PRE-CONSTRUCTION MEETING

1. A PRE-CONSTRUCTION MEETING SHALL BE HELD PRIOR TO COMMENCEMENT OF WORK. THE MEETING SHALL INCLUDE (AT A MINIMUM) THE OWNER/REPRESENTATIVE, CONTRACTORS, ENGINEER OF WORK, SOILS ENGINEER, PERTINENT UTILITY COMPANIES, SURVEYOR AND CITY STAFF.

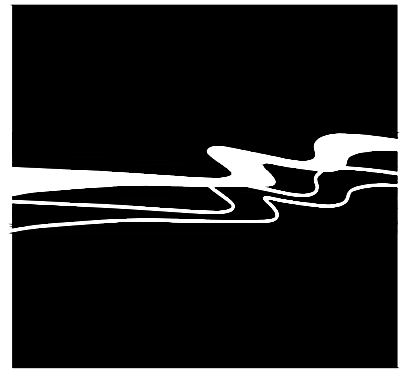
CONSTRUCTION NOTES

1. THE CONTRACTOR SHALL INVESTIGATE THE SITE DURING CLEARING AND EARTHWORK OPERATIONS FOR ANY EXISTING HAZARD TO CONSTRUCTION NOT SHOWN ON THE PLANS SUCH AS FILLED EXCAVATIONS OR BURIED STRUCTURES SUCH AS CESSPOOLS, CISTERNS, FOUNDATIONS, OR LARGE DEPOSITS OF ORGANIC MATERIAL, ETC. IF ANY SUCH HAZARDS ARE FOUND, THE OWNER AND ENGINEER SHALL BE NOTIFIED. ALL EXISTING SURFACE STRUCTURES, FENCES, TANKS, PIPES, ETC., AND ANY BURIED MATERIAL SPECIFIED IN THE PLANS FOR REMOVAL FROM THE SITE SHALL BE DISPOSED OF AT A LICENSED DISPOSAL FACILITY.
2. ALL DISTURBED AREAS SHALL BE RE-VEGETATED. TEMPORARY EROSION, SEDIMENTATION, AND SILTATION MITIGATION DEVICES SHALL BE PLACED PRIOR TO START OF CONSTRUCTION OR LAND DISTURBING ACTIVITIES. DRAINAGE SHALL BE DISPERSED FROM IMPERMEABLE AREAS TO MITIGATE EROSION.
3. THE CONTRACTOR SHALL PROVIDE A MINIMUM OF 48 HOURS WRITTEN NOTICE TO THE PROJECT REPRESENTATIVE AND SURVEYOR WHEN REQUESTING SURVEY STAKES.

GRADING NOTES

1. THE FOLLOWING SOIL QUANTITIES ARE ESTIMATES ONLY AND ARE NOT ADJUSTED FOR REMOVAL OF VEGETATION OR FOR ROCK INCURRED DURING EXCAVATION. QUANTITY ESTIMATES SHOWN ON THESE PLANS ARE TO BE USED FOR BONDING AND PERMIT PURPOSES ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ACTUAL QUANTITIES AND SHRINKAGE FOR THE PURPOSES OF CONSTRUCTION AND BIDDING.
 A. CUT = 445 CY
 B. FILL = 214 CY
 C. NET = 231 CY (CUT)

2. ALL GRADING AND SITE WORK SHALL BE DONE IN ACCORDANCE WITH THE 2021 CALIFORNIA BUILDING CODE (CBC), CITY STANDARDS, AND THE SOILS REPORT. IN THE CASE OF CONFLICT BETWEEN THE PRECEDING REQUIREMENTS AND THESE PLANS, THE MORE STRINGENT SHALL GOVERN.
3. PACIFIC CREST ENGINEERING INC., HEREINAFTER DESCRIBED AS THE GEOTECHNICAL ENGINEER, WILL BE NOTIFIED AT LEAST TWO (2) WORKING DAYS BEFORE SITE CLEARING OR GRADING OPERATIONS COMMENCE, AND WILL BE PRESENT TO OBSERVE THE STRIPPING OF DELETERIOUS MATERIAL AND PROVIDE CONSULTATION TO THE GRADING CONTRACTOR IN THE FIELD.
4. ALL GRADING OPERATIONS SHALL CONFORM TO THE RECOMMENDATIONS IN THE SOILS REPORT AS DESCRIBED IN NOTE 3 ABOVE, UNLESS OTHERWISE DIRECTED BY THE GEOTECHNICAL ENGINEER OF RECORD OR AS NOTED ON THESE PLANS.
5. ALL PERMANENT CUT OR FILL SLOPES SHALL BE NO STEEPER THAN 2.0 HORIZONTAL TO 1.0 VERTICAL. THE GEOTECHNICAL ENGINEER SHALL SUBMIT A REPORT VERIFYING THE STABILITY OF ALL SLOPES STEEPER THAN 2.0 HORIZONTAL TO 1.0 VERTICAL.
6. ALL FILLS SHALL BE BENCHED INTO COMPETENT MATERIAL AND FILL AREA SHALL BE PREPARED AS REQUIRED BY THE GEOTECHNICAL ENGINEER. NO FILL SHALL BE PLACED UNTIL PREPARATION OF THE SITE HAS BEEN APPROVED BY THE GEOTECHNICAL ENGINEER. SCARIFICATION OF THE EXISTING SOIL AT AREAS TO RECEIVE FILL SHALL BE PERFORMED. ALL FILL MATERIAL SHALL BE IN ACCORDANCE WITH THE SOILS REPORT.
7. FIELD OBSERVATION, INSPECTIONS, AND TESTING DURING THE GRADING OPERATIONS, AS DESCRIBED HEREIN, SHALL BE PROVIDED BY THE GEOTECHNICAL ENGINEER, SO THAT A DECISION CAN BE FORMED REGARDING THE ADEQUACY OF THE SITE PREPARATION, THE ACCEPTABILITY OF FILL MATERIALS, AND THE EXTENT TO WHICH THE EARTHWORK CONSTRUCTION AND THE DEGREE OF COMPACTION COMPLY WITH THE PROJECT'S GEOTECHNICAL SPECIFICATIONS AND IS SUITABLE TO SUPPORT THE INTENDED STRUCTURES.
8. THE CONTRACTOR SHALL FURNISH THE GEOTECHNICAL ENGINEER WITH A SUBMITTAL INDICATING THE TYPE OF CONCRETE, MIX QUANTITIES, AND MASONRY MATERIALS TO BE USED IN THE CONSTRUCTION OF ALL FOUNDATIONS, FOUNDATION WALLS, AND RETAINING WALLS FOR PRIOR APPROVAL.
9. THE CONTRACTOR SHALL PROVIDE UNIFORM GRADES BETWEEN CONTROL ELEVATIONS WITH SMOOTH VERTICAL CURVES AT GRADE BREAKS. THE EDGES OF ALL GRADING WORK SHALL BE ROLLED AND CONTOURED TO PRESENT A NATURAL LOOKING APPEARANCE THAT BLENDS WITH ADJACENT NATURAL GRADES AND AVOIDS PRISMATIC FORMS.
10. NO AREA SHALL BE GRADED SOONER THAN IS NECESSARY FOR CONSTRUCTION TO REDUCE THE AMOUNT OF TIME THAT THE SOILS ARE DEVOID OF PLANT MATERIAL.
11. PRIOR TO FINAL INSPECTION, THE GEOTECHNICAL ENGINEER SHALL CERTIFY THAT ALL GRADING, SCARIFICATION, AND COMPACTION WAS DONE IN ACCORDANCE WITH THE RECOMMENDATIONS IN THE SOILS REPORT AND AS NOTED ON THESE PLANS.
12. THE GEOTECHNICAL ENGINEER SHALL INSPECT AND CERTIFY THAT ALL FOUNDATION EXCAVATIONS COMPLY WITH THE RECOMMENDATIONS OF THE SOILS REPORT.



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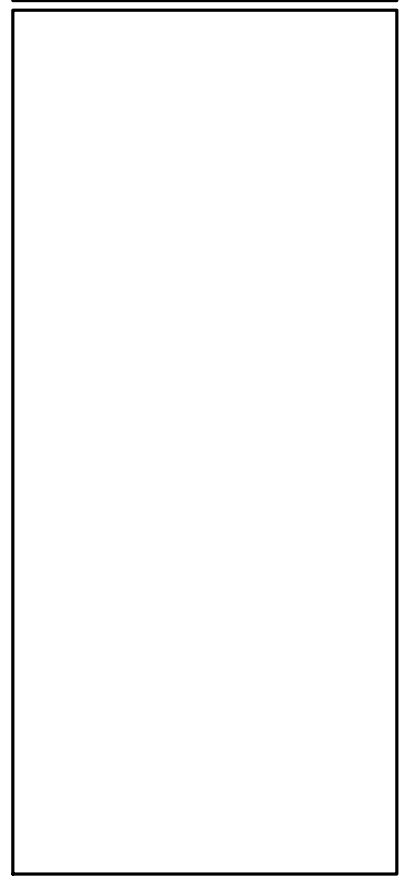
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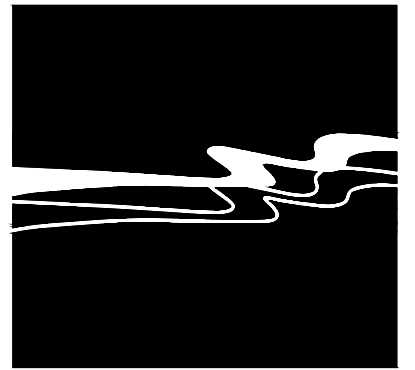
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CITY OF WATSONVILLE
RAMSAY PARK GREEN INFRASTRUCTURE
NOTES SHEET

JOB #: 1535-0007
 DESIGNERS: BDH
 DRAWN BY: WES
 DATE: 07/09/24

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2 OF 19 SHEETS



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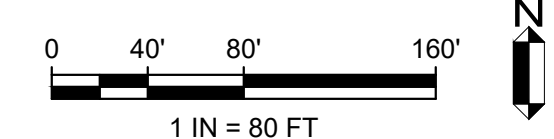
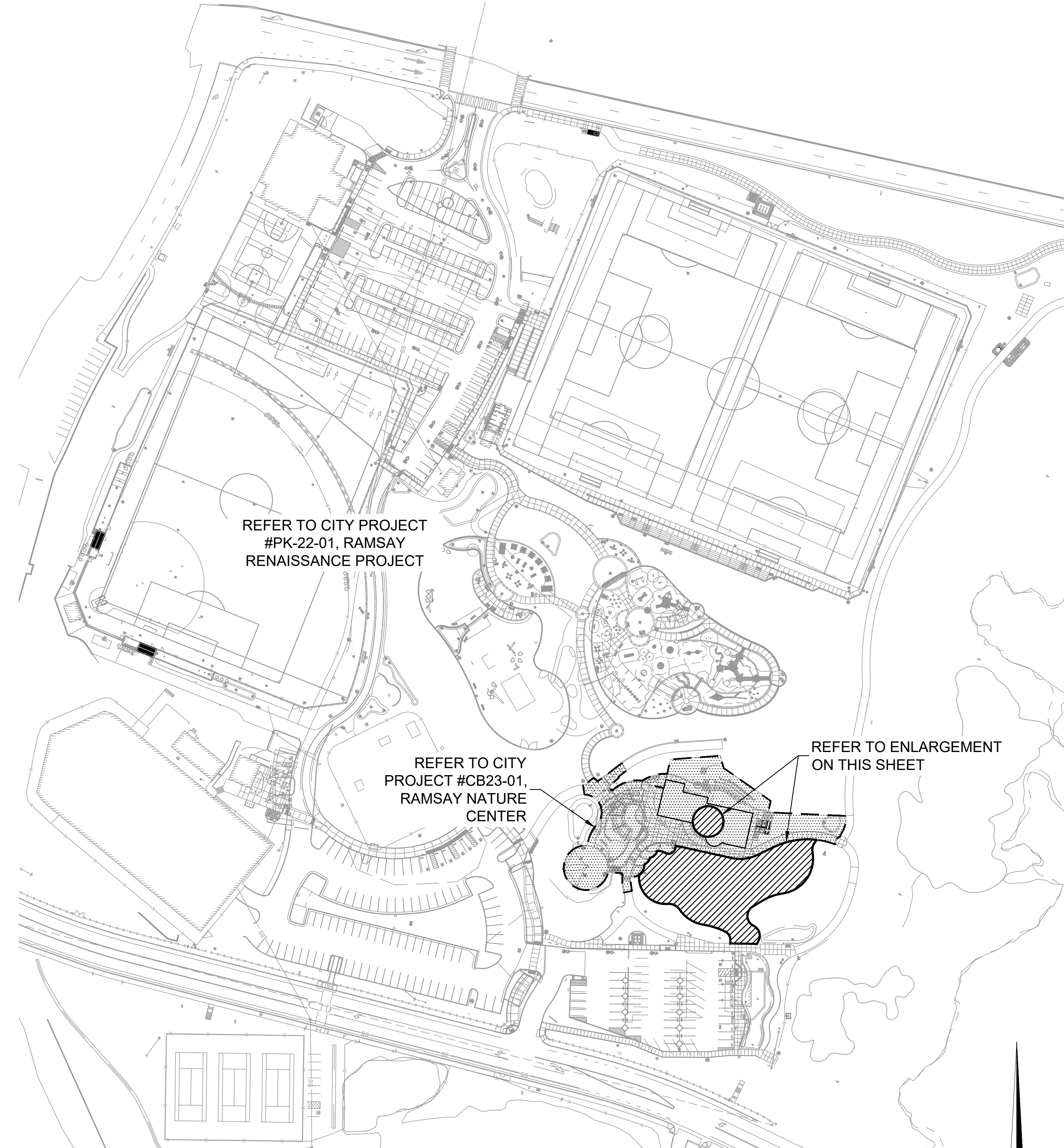


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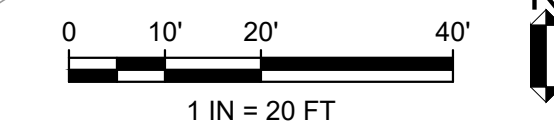
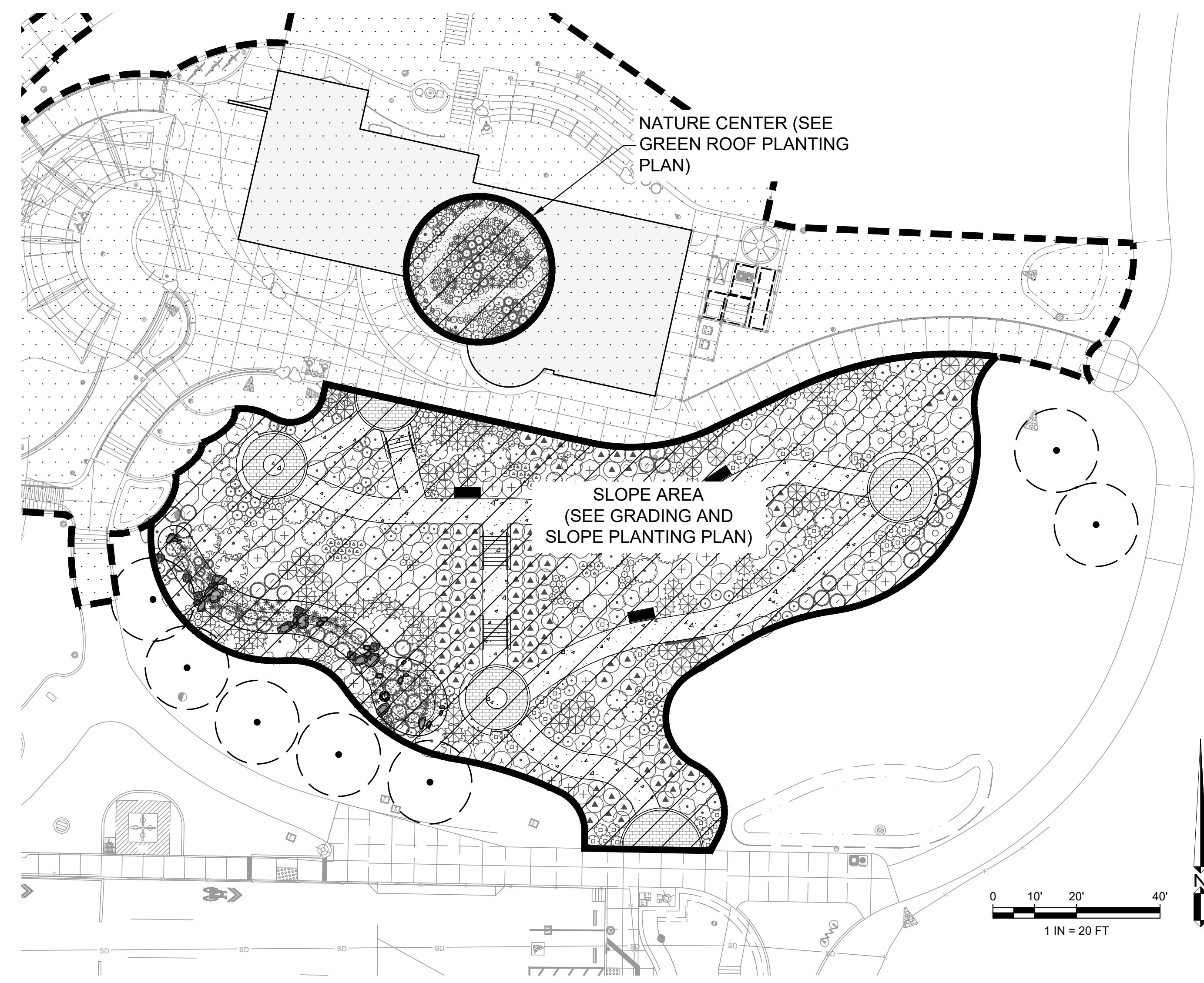
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**CITY OF WATSONVILLE
RAMSAY PARK GREEN INFRASTRUCTURE
OVERALL SITE PLAN**

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DESIGNERS: SLB
DRAWN BY: MCC
DATE: 07/09/24
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C-1.2
3 OF 19 SHEETS

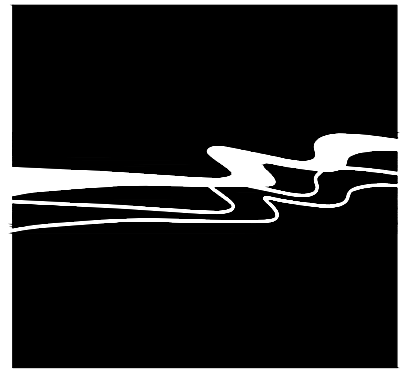


PROJECT ENLARGEMENT



REFERENCE KEYNOTES

XXX	GRADING AND DRAINAGE
101	10" STORM DRAIN BASIN PER DETAIL 1, SHEET C-4.0
102	EXIST STORM STRUCTURE BY OTHERS
103	¾-1" ROUNDED COBBLE, 2" THICK
104	VEGETATED SWALE PER DETAIL 4, SHEET C-4.0
105	BIORETENTION BASIN PER DETAIL 5, SHEET C-4.0
106	CONCRETE PAVING PER DETAIL 7, SHEET C-4.0
107	PERMEABLE PAVER PER DETAIL 6, SHEET C-4.0
108	6" CONCRETE MOW CURB PER DETAIL 4, SHEET LD-1
109	4" PERFORATED PVC PIPE IN PAVER AREA PER DETAIL 6, SHEET C-4.0
110	TIE INTO STORM STRUCTURE BY OTHERS
111	PROPOSED HANDRAIL (L-TOTAL=44') PER LANDSCAPE PLANS
112	CONCRETE SEAT WALL PER DETAIL 6, SHEET C-4.0
113	CONCRETE STAIRS WITH CHEEK WALLS PER DETAIL 3, SHEET LD-1



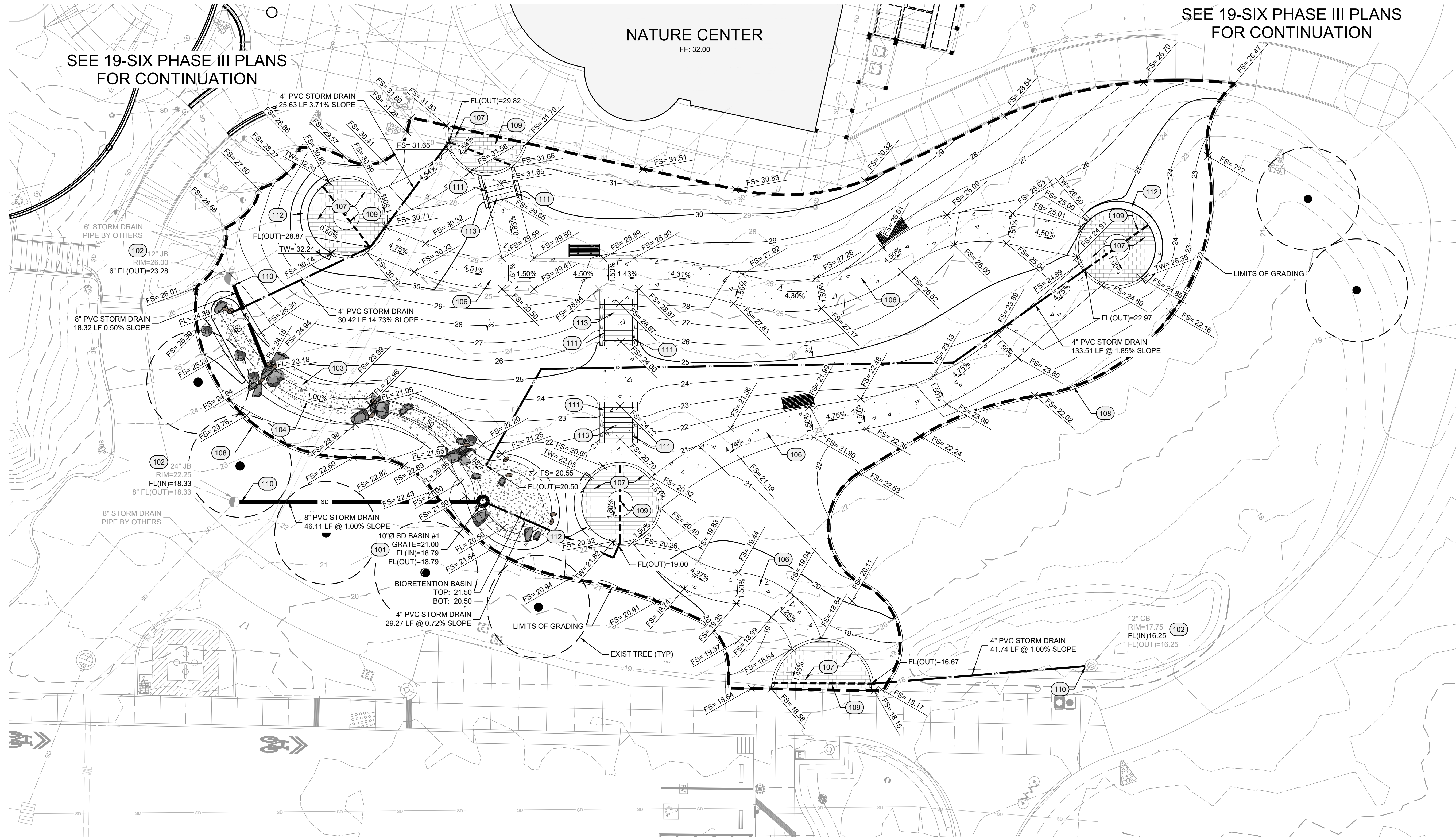
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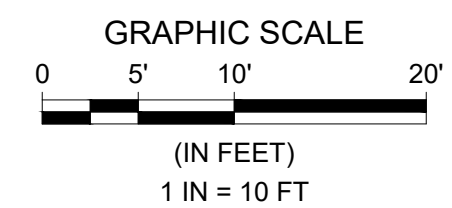
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SEE 19-SIX PHASE III PLANS FOR CONTINUATION

SEE 19-SIX PHASE III PLANS FOR CONTINUATION

CITY OF WATSONVILLE
 RAMSAY PARK GREEN INFRASTRUCTURE
 GRADING AND DRAINAGE PLAN



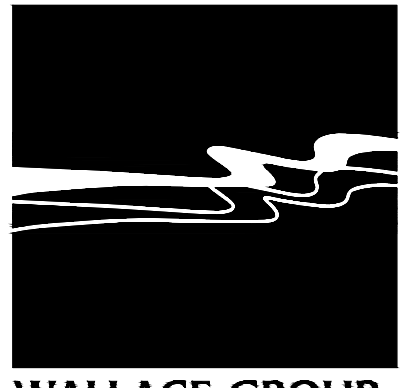
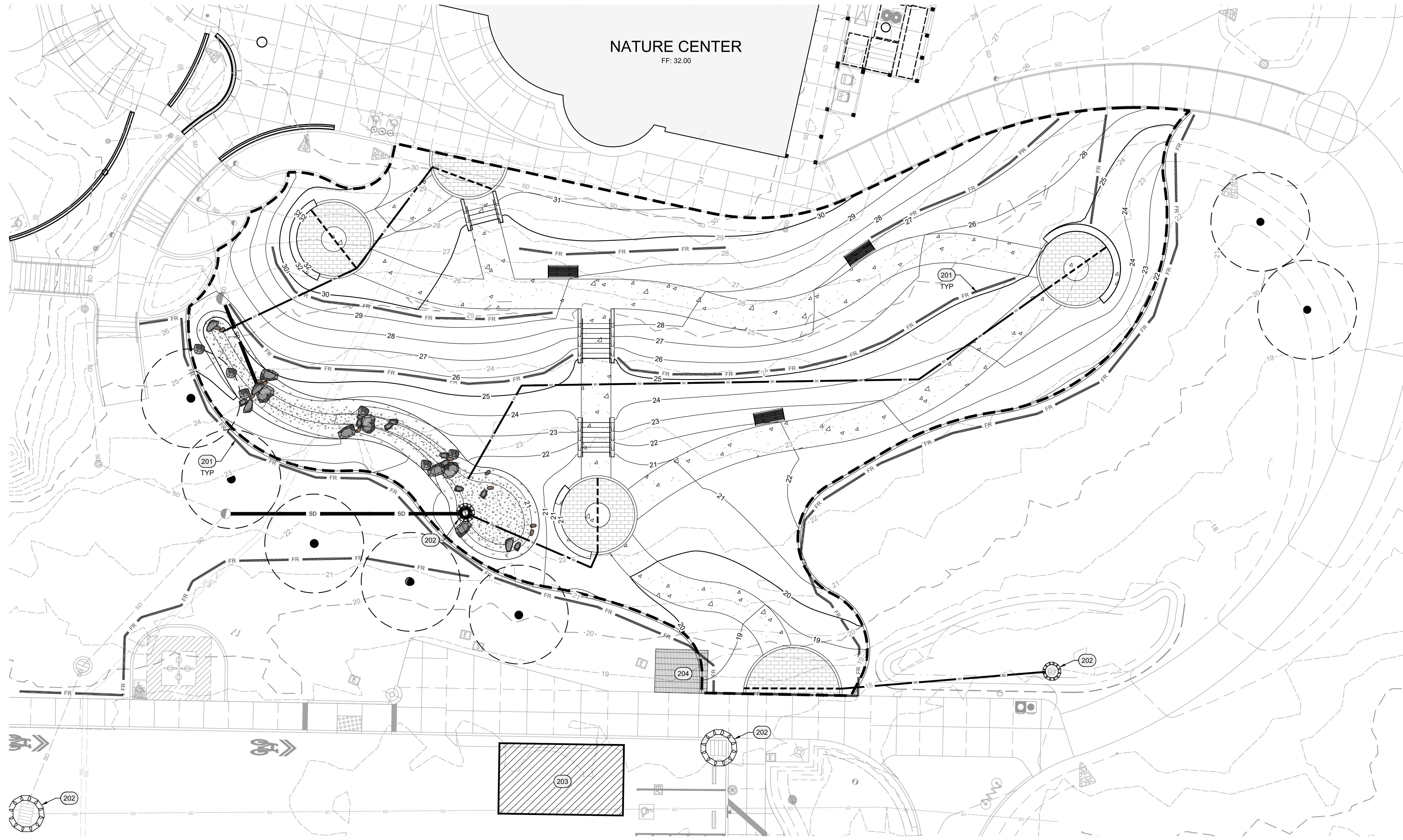
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 C-2.0
 4 OF 19 SHEETS

REFERENCE KEYNOTES

(XXX)	TEMPORARY EROSION CONTROL
201	FIBER ROLL PER CALTRANS BMP SC-5 AND T56, SEE SHEET C-3.1
202	TEMPORARY DRAINAGE INLET PROTECTION TYPE 3B PER CALTRANS BMP SC-10 AND T62, SEE SHEET C-3.1
203	TEMPORARY CONSTRUCTION STAGING AREA (EQUIPMENT, STORAGE, HAZARDOUS MATERIALS, WASTE, AND STOCKPILES) PER DETAIL 1, SEE SHEET C-3.1
204	TEMPORARY CONSTRUCTION ENTRANCE PER CALTRANS T58, SEE SHEET C-3.1

FIBER ROLL INSTALLATION GUIDELINES

SLOPE PERCENTAGE	SHEET FLOW LENGTH NOT TO EXCEED
0%-25%	20 FEET
25%-50%	15 FEET
>50%	10 FEET



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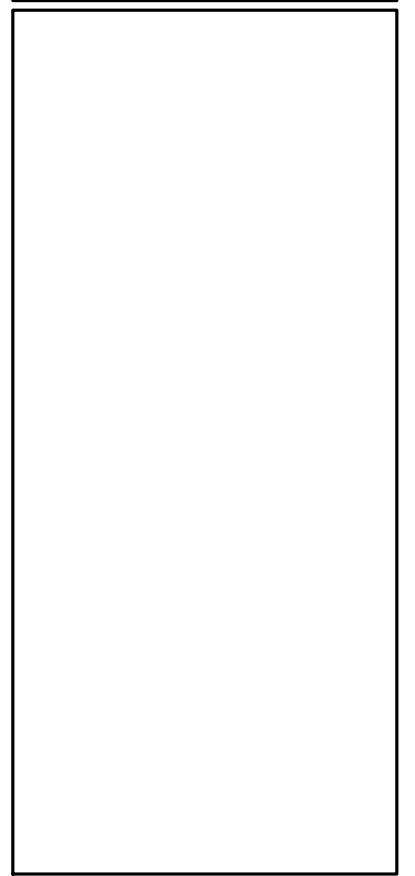
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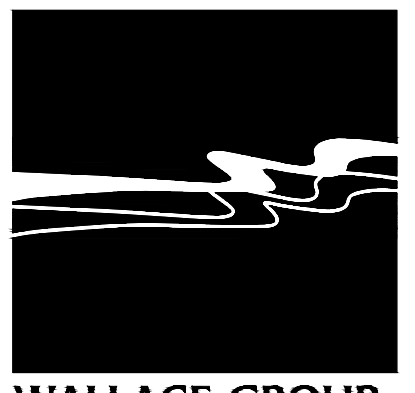
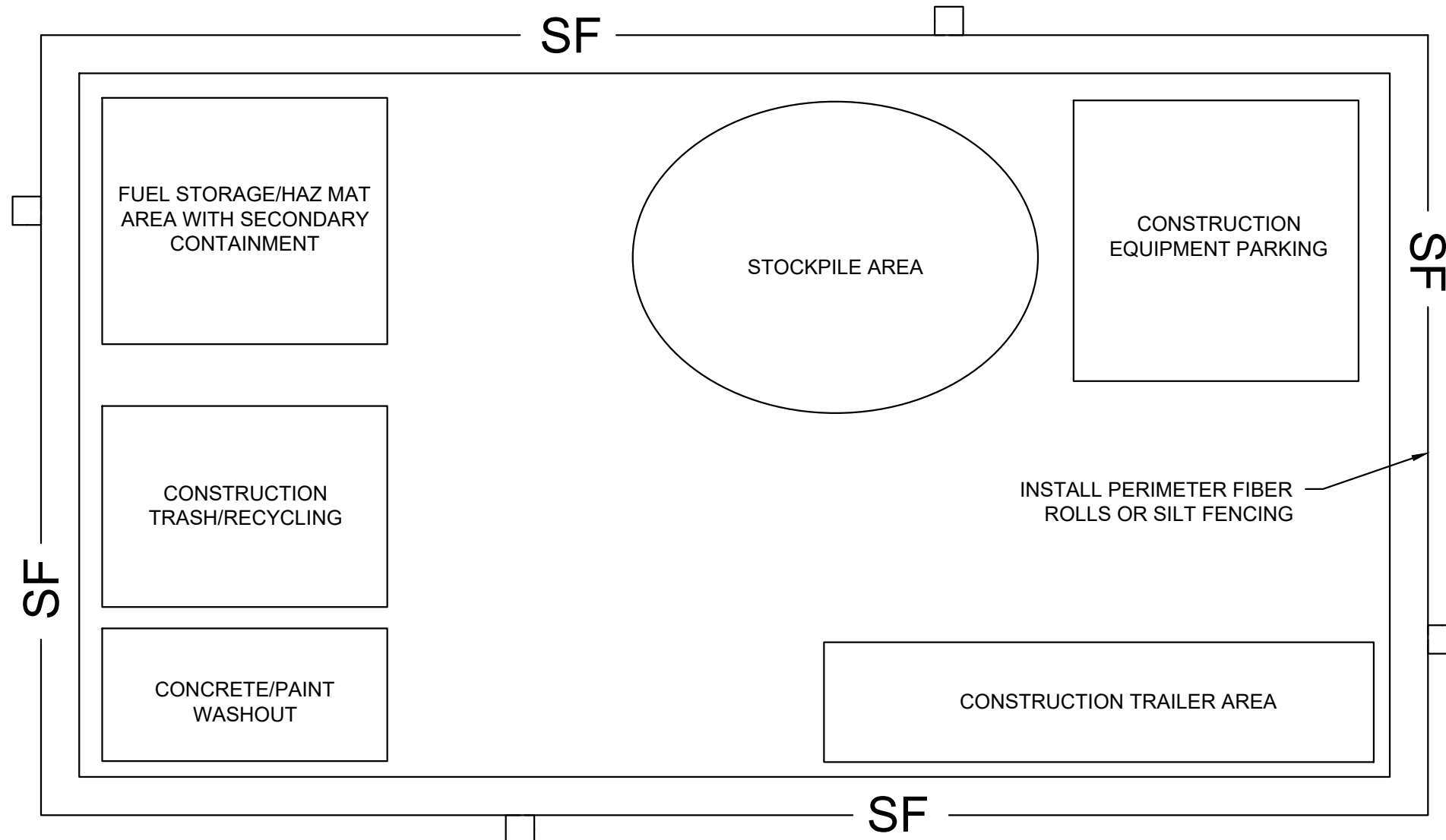
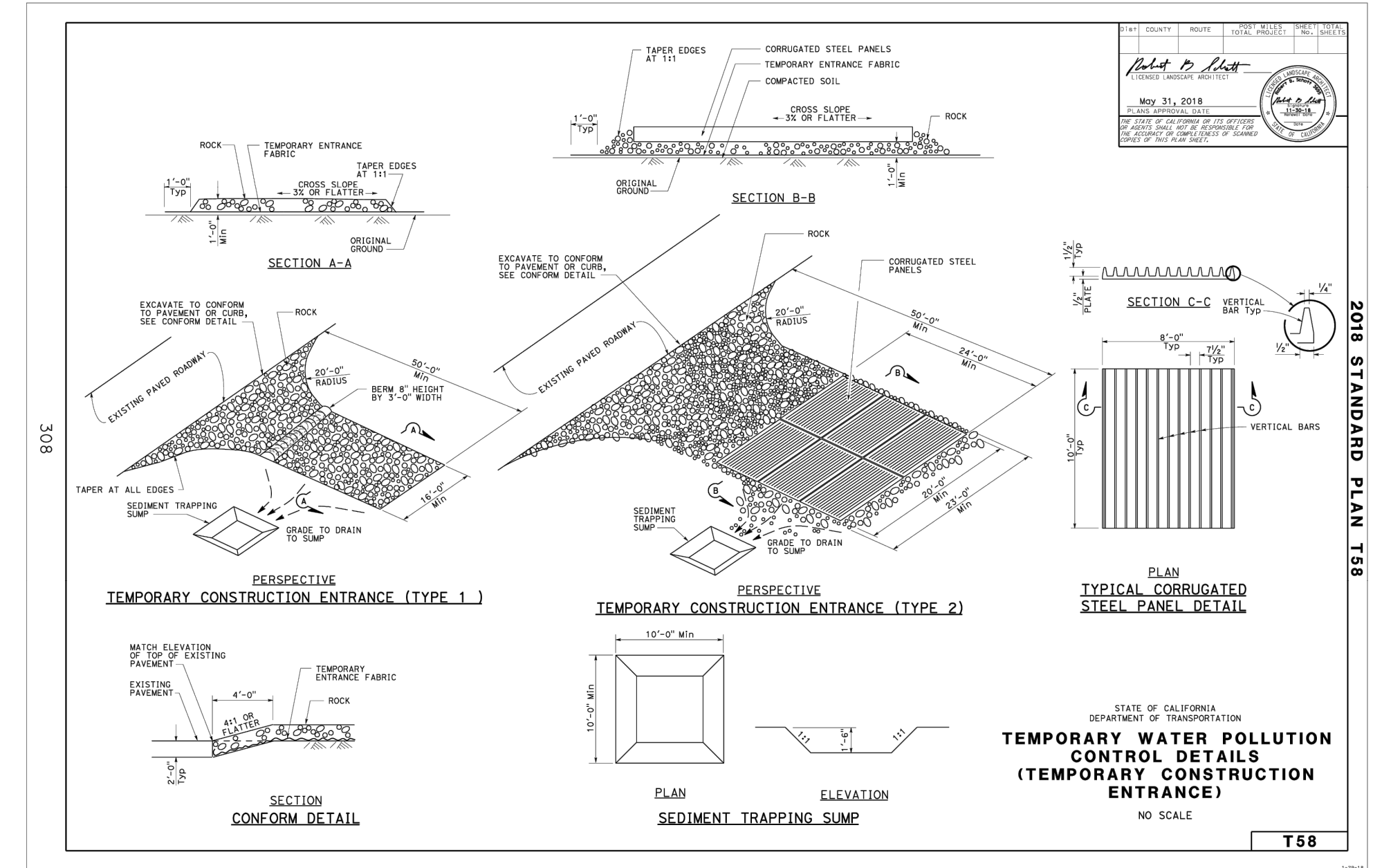
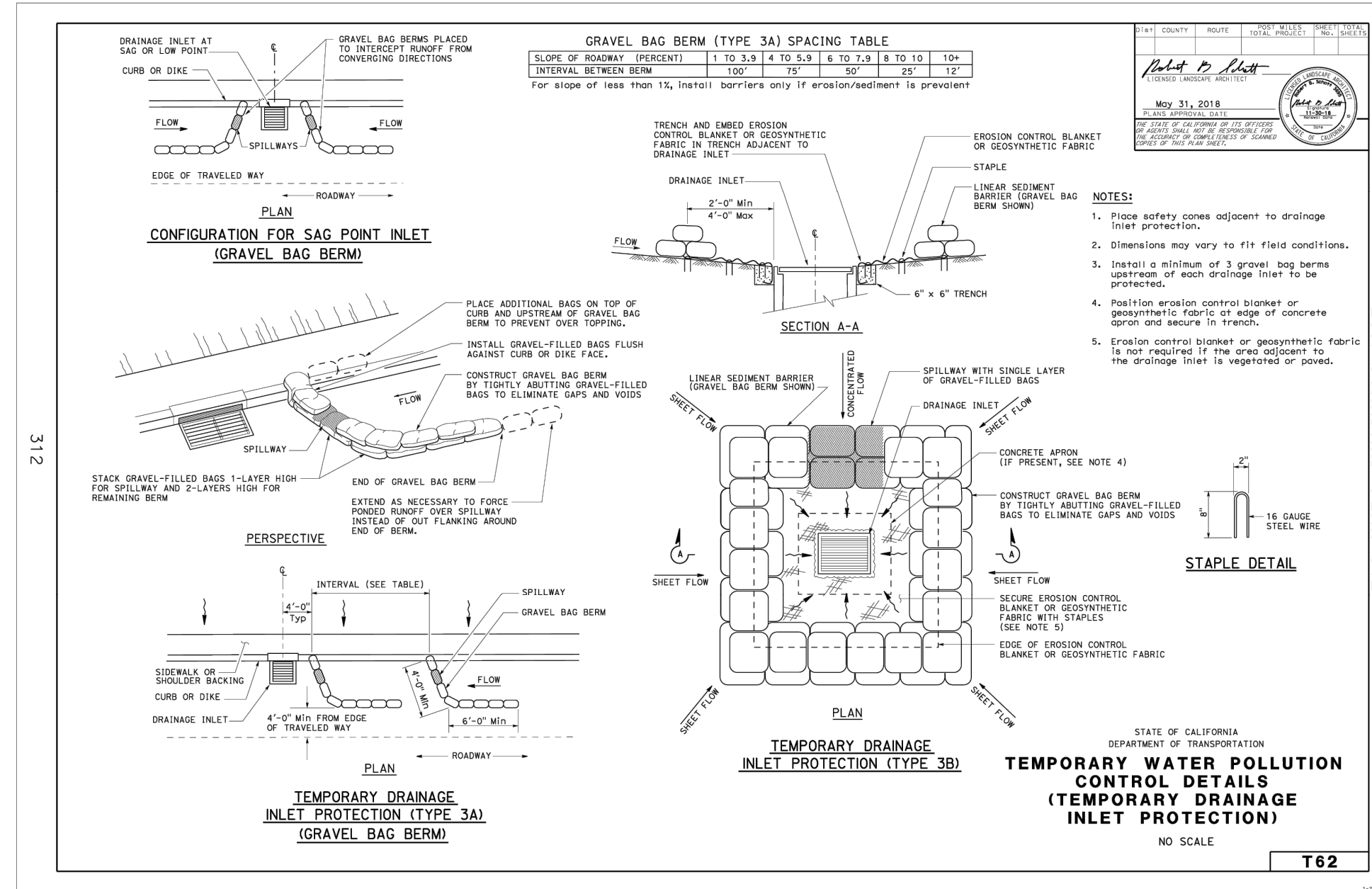
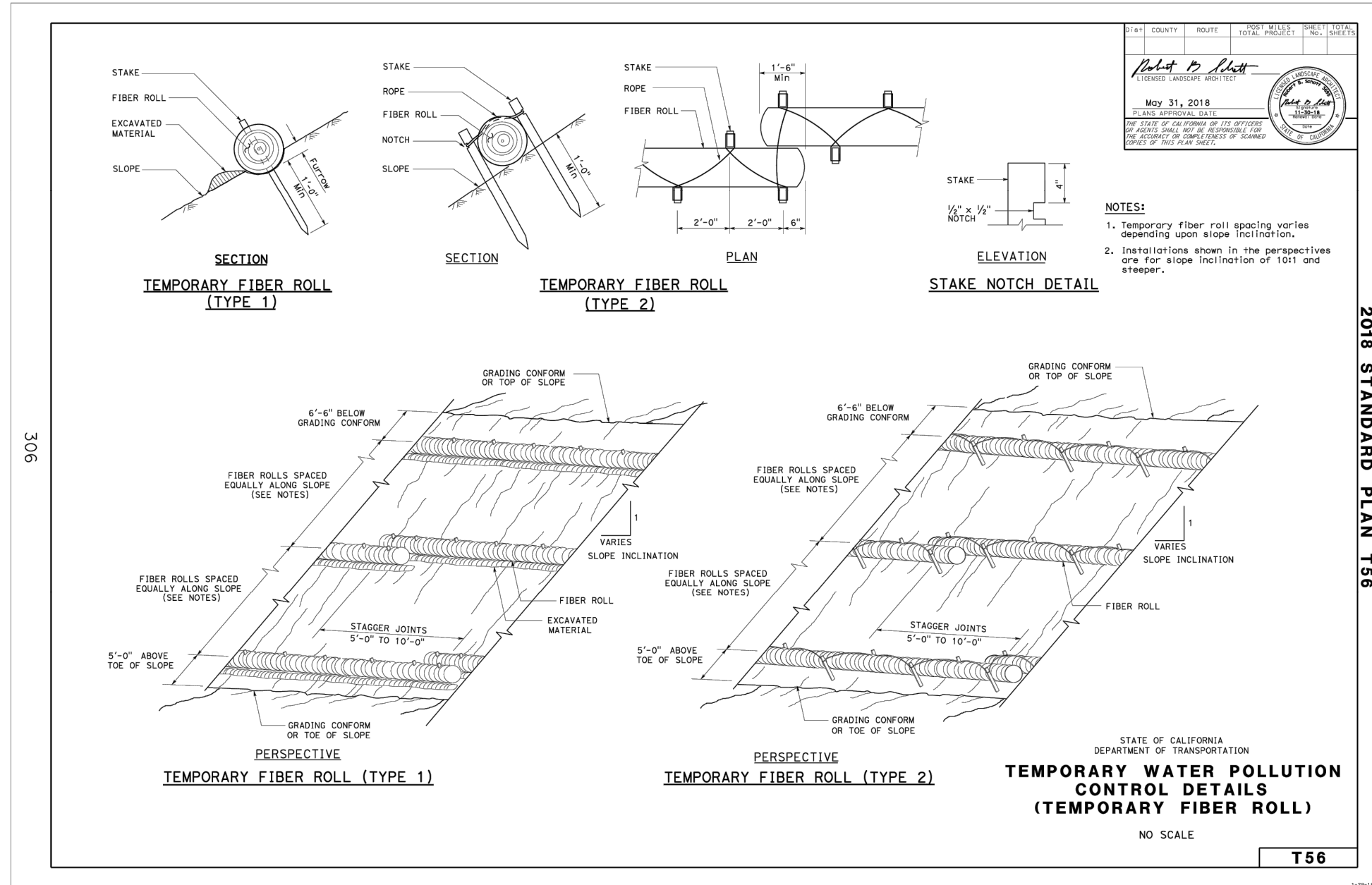
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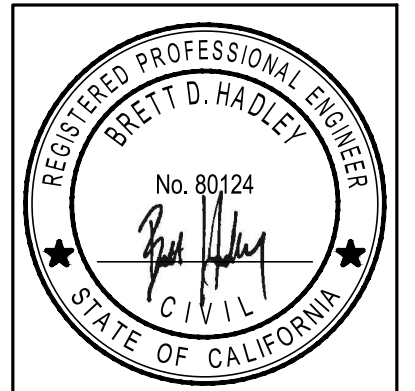
CITY OF WATSONVILLE
RAMSAY PARK GREEN INFRASTRUCTURE
EROSION CONTROL PLAN

JOB #: 1535-0007
DESIGNERS: BDH
DRAWN BY: WES
DATE: 07/09/24
DRAWING NO.
C-3.0
5 OF 19 SHEETS



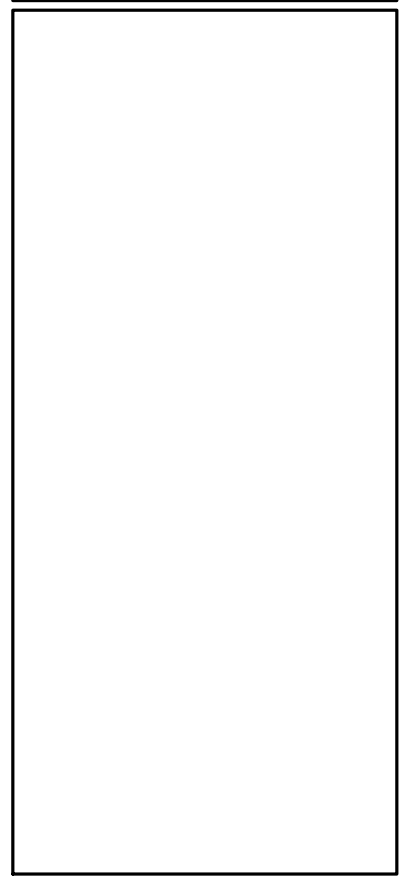
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CITY OF WATSONVILLE
 RAMSAY PARK GREEN INFRASTRUCTURE
 EROSION CONTROL PLAN DETAILS

JOB #: 1535-0007
 DESIGNERS: BDH
 DRAWN BY: WES
 DATE: 07/09/24
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C-3.1
 6 OF 19 SHEETS

NYLOPLAST DRAIN BASIN WITH DOME GRATE

1 - 8" - 30" DOME GRATES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.

2 - 8" & 10" DOME GRATES FIT ONTO THE DRAIN BASINS WITH THE USE OF A PVC BODY TOP. SEE DRAWING NO. 7001-110-045.

3 - DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. RISERS ARE NEEDED FOR BASINS OVER 84" DUE TO SHIPPING RESTRICTIONS. SEE DRAWING NO. 7001-110-065.

4 - DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12HANCOR DUAL WALL, N-12 HP, & PVC SEWER (EX: SDR 35), PVC DWV (EX: SCH 40), PVC C900/C905, CORRUGATED & RIBBED PVC).

5 - ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360°. TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001-110-012.

6 - 8" - 30" DOME GRATES HAVE NO LOAD RATING.

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	TITLE: DRAIN BASIN WITH DOME GRATE QUICK SPEC INSTALLATION DETAIL	

1099CGDF

APPROX. DRAIN AREA = 54.32 SQ IN
APPROX. WEIGHT = 8.86 LBS

SECTION A-A

DIMENSIONS ARE FOR REFERENCE ONLY. ACTUAL DIMENSIONS MAY VARY. DIMENSIONS ARE IN INCHES. QUALITY: MATERIALS SHALL CONFORM TO ASTM A536 GRADE 70-50-05. PAINT: CASTINGS ARE FURNISHED WITH A BLACK PAINT. LOCKING DEVICE AVAILABLE UPON REQUEST.

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	TITLE: 10 IN DOME GRATE ASSEMBLY - TYPES B	

COVER AND GRATE OPTIONS

COVER AND GRATE OPTIONS

CATCH BASINS ARE AVAILABLE WITH THE FOLLOWING COVER AND GRATE OPTIONS:

- Traffic and Non-Traffic grates.
- ADA and Bicycle proof Traffic grates.
- Galv. steel solid Traffic and Non-Traffic covers.

The "BOX" Option:

Catch Basins are available in a one piece "BOX" configuration, with the frame cast into the top of a one piece structure.

Catch Basins are available with Custom holes where required and Variable heights.

12" x 12" SECTION

18" x 18" SECTION

24" x 24" SECTION

36" x 36" SECTION

48" x 48" SECTION

SQUARE CATCH BASINS

REV. 06/08

1 ADS NYOPLAST 10" STORM DRAIN BASIN

2 ADS NYOPLAST 10" DOME GRATE

3 STORM DRAIN JUNCTION BOX

VEGETATED SWALE

Scale: 1"=2'

PROFILE

SECTION

LEGEND:

- 3/4-1" ROUNDED COBBLE, 2" THICK
- BOULDERS, SIZE AND PLACEMENT PER LANDSCAPE PLAN
- NATIVE SOIL
- PLANTING PER LANDSCAPE PLAN
- 8" PVC STORM DRAIN

BIORETENTION SECTION

Scale: 1"=2'

LEGEND:

- BIORETENTION SOIL MEDIA PER SPECIFICATIONS
- NO. 8 GRAVEL
- NO. 57 GRAVEL
- SCARIFY SUBGRADE
- NYLOPLAST 10" DOME GRATE PER ADS DETAIL 2, SEE THIS SHEET
- NYLOPLAST 10" DRAIN BASIN PER ADS DETAIL 1, SEE THIS SHEET
- 6" PVC STORM DRAIN
- PLANTING PER LANDSCAPE PLAN

PERMEABLE PAVERS

Scale: 1"=1'

LEGEND:

- 6"x12"x80 MM HYDRO-FLO PERMEABLE PAVER SEE NOTE 2
- NO. 8 GRAVEL
- NO. 57 GRAVEL
- NO. 2 GRAVEL
- 12" NON-EXPANSIVE ENGINEERED FILL
- MIRAFI 140N GEOTEXTILE FABRIC PER SPECIFICATIONS
- 4" PERFORATED PVC PIPE, CONNECT TO STORM DRAIN SYSTEM WITH SOLID WALL 4" PIPE AS SHOWN ON PLAN, DEPTH OF PERFORATED PIPE VARIES PER PLAN
- NATIVE SOIL
- CONCRETE EDGEBAND, ENGRAVE PATTERN PER LANDSCAPE PLANS
- #4 REBAR AT 18" O.C. EACH WAY, CONTINUOUS TOP TO BOTTOM

NOTE:

- ALL CONCRETE SURROUNDING THE PERMEABLE PAVERS SHALL HAVE THE SAME DEPTH AS THE BASE ROCK MATERIAL BENEATH THE PAVERS.
- HYDRO-FLO PERMEABLE PAVERS BY PACIFIC INTERLOCK PAVERS, INC. CONTRACTOR MAY CUT PAVERS AS REQUIRED.
- REFER TO MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS PRIOR TO INSTALLATION.

4 VEGETATED SWALE

5 BIORETENTION SECTION

6 PERMEABLE PAVERS

CONCRETE SECTION

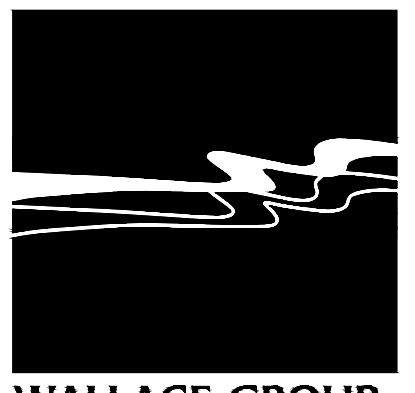
Scale: 1"=1'

LEGEND:

- #3 REBAR AT 18" O.C. EACH WAY
- COMPACTED CLASS II AGGREGATE BASE
- 12" NON-EXPANSIVE ENGINEERED FILL
- THICKENED EDGE REQUIRED ALONG ALL EDGES
- CONCRETE FINISH AND PATTERN PER LANDSCAPE PLANS
- (2) #3 BARS CONTINUOUS

NOTE: PROVIDE SCORE JOINTS 5' O.C. AND 10' O.C. FOR EXPANSION JOINT

7 CONCRETE SECTION



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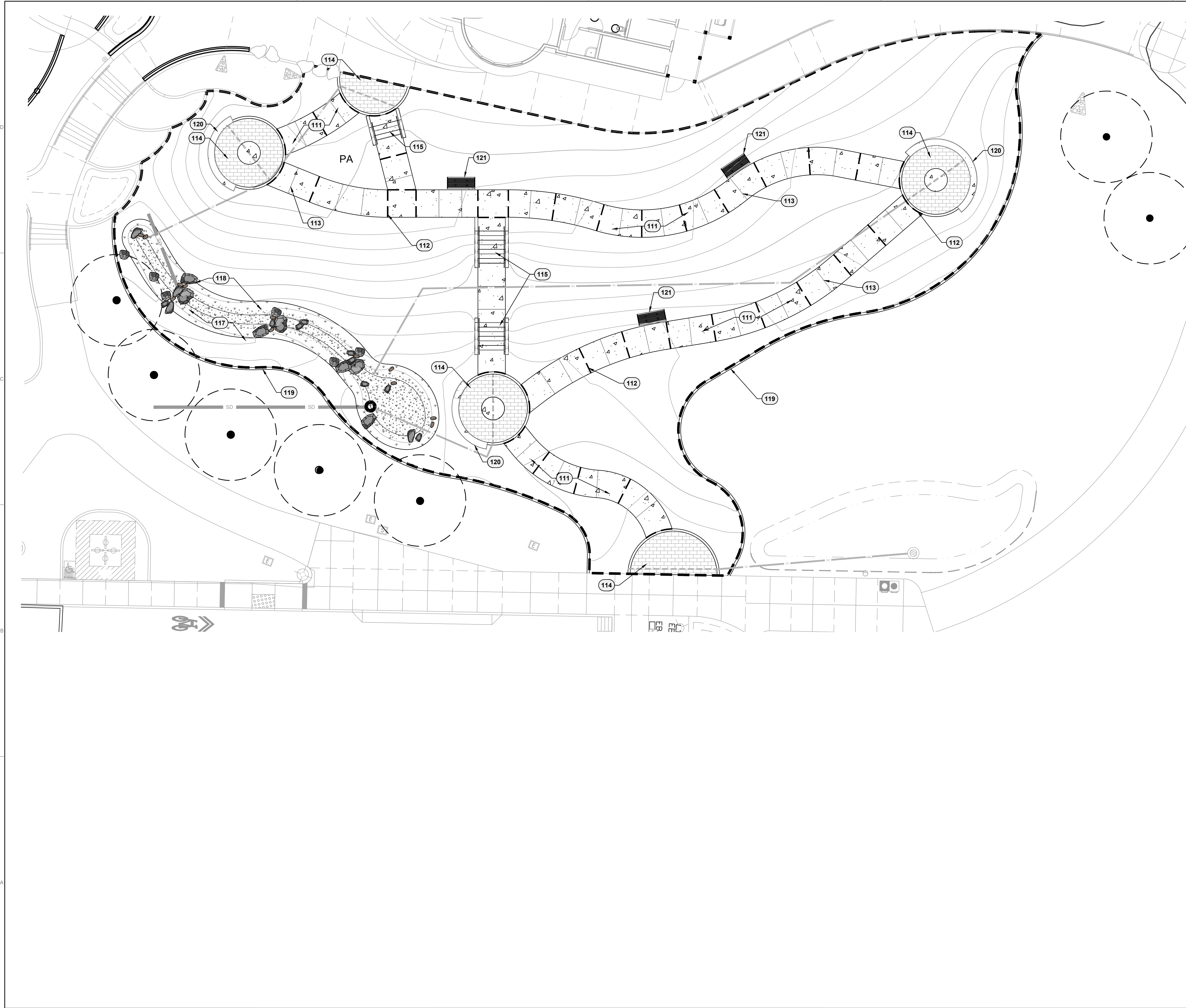


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 CONSTRUCTION DETAILS

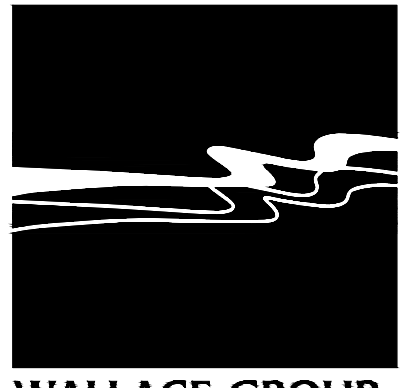
JOB #: 1535-0007
 DESIGNERS: BDH
 DRAWN BY: WES
 DATE: 07/09/24
 DRAWING NO.
 C-4.0
 7 OF 19 SHEETS



REFERENCE KEYNOTES

110	HARDSCAPE
111	CONCRETE PAVING, TOP CAST SAND FINISH, SEE DETAIL 1, SHEET LD-1
112	CONCRETE EXPANSION CONTROL, AT 20' O.C. SPACING EXCEPT WHERE SHOWN OR NOTED OTHERWISE, SEE DETAIL 2, SHEET LD-1
113	CONCRETE SCORE JOINT, AT 5' O.C. SPACING EXCEPT WHERE SHOWN OR NOTED OTHERWISE, SEE DETAIL 2, SHEET LD-1
114	PERMEABLE PAVERS W/ 5' DIAMETER CONCRETE BASE FOR MOSAIC MEDALLION, SEE DETAIL 1, SHEET LD-3
115	METAL HANDRAILS & STAIR TREADS, SEE DETAIL 3, SHEET LD-1
117	BIORETENTION FACILITY, SEE CIVIL
118	BOULDER PLACEMENT, SEE DETAIL 3, SHEET LD-2
119	CONCRETE MOW STRIP, SEE DETAIL 4, SHEET LD-1
120	CAST IN PLACE CONCRETE SEAT BENCH, SEE DETAIL, SHEET LD-1
121	BENCH WITH BACK, REFER TO SPECIFICATIONS

- BOULDERS - 18-SMALL ≈1' - 1.5'
- BOULDERS - 9-MEDIUM ≈2' - 2.5'
- BOULDERS - 9-LARGE ≈3' - 4.5'



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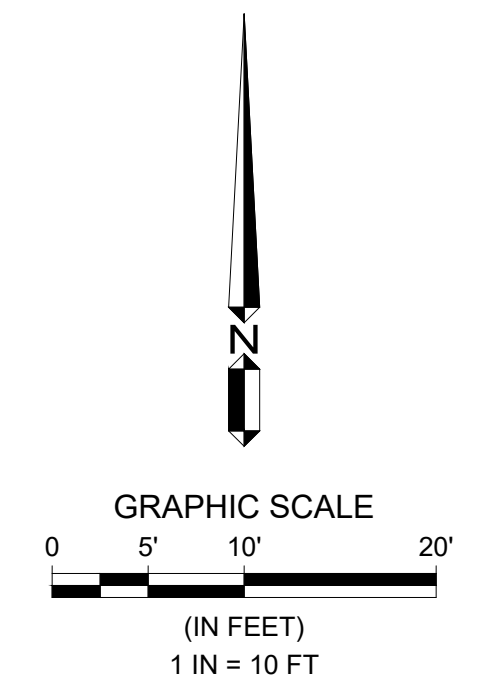


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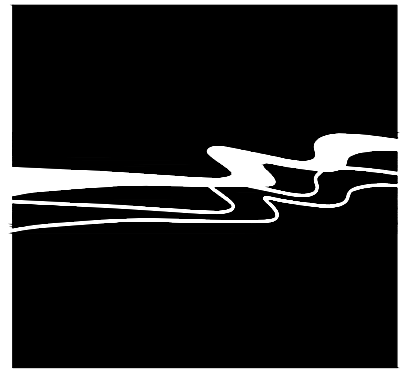
**CITY OF WATSONVILLE
 RAMSAY PARK GREEN INFRASTRUCTURE
 SLOPE SITE PLAN**

JOB #: 1535-0007
 DESIGNERS: EAS, SJB
 DRAWN BY: MCC
 DATE: 7/9/2024
**DRAWING NO.
 LL-1**
 8 OF 19 SHEETS





REFERENCE KEYNOTES	
110	HARDSCAPE
116	GRT CLASSIC LAYERED GREEN ROOF SYSTEM, SEE DETAIL 1, SHEET LD-2
122	3/4" CRUSHED GRAVEL PATH, 3" THICK, TAN/GRAY BLEND



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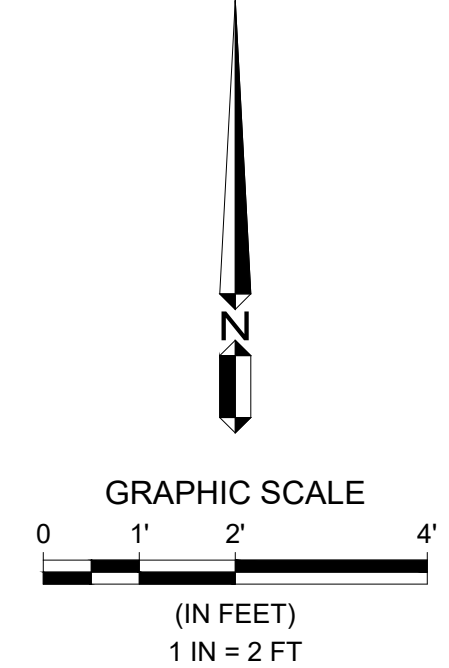
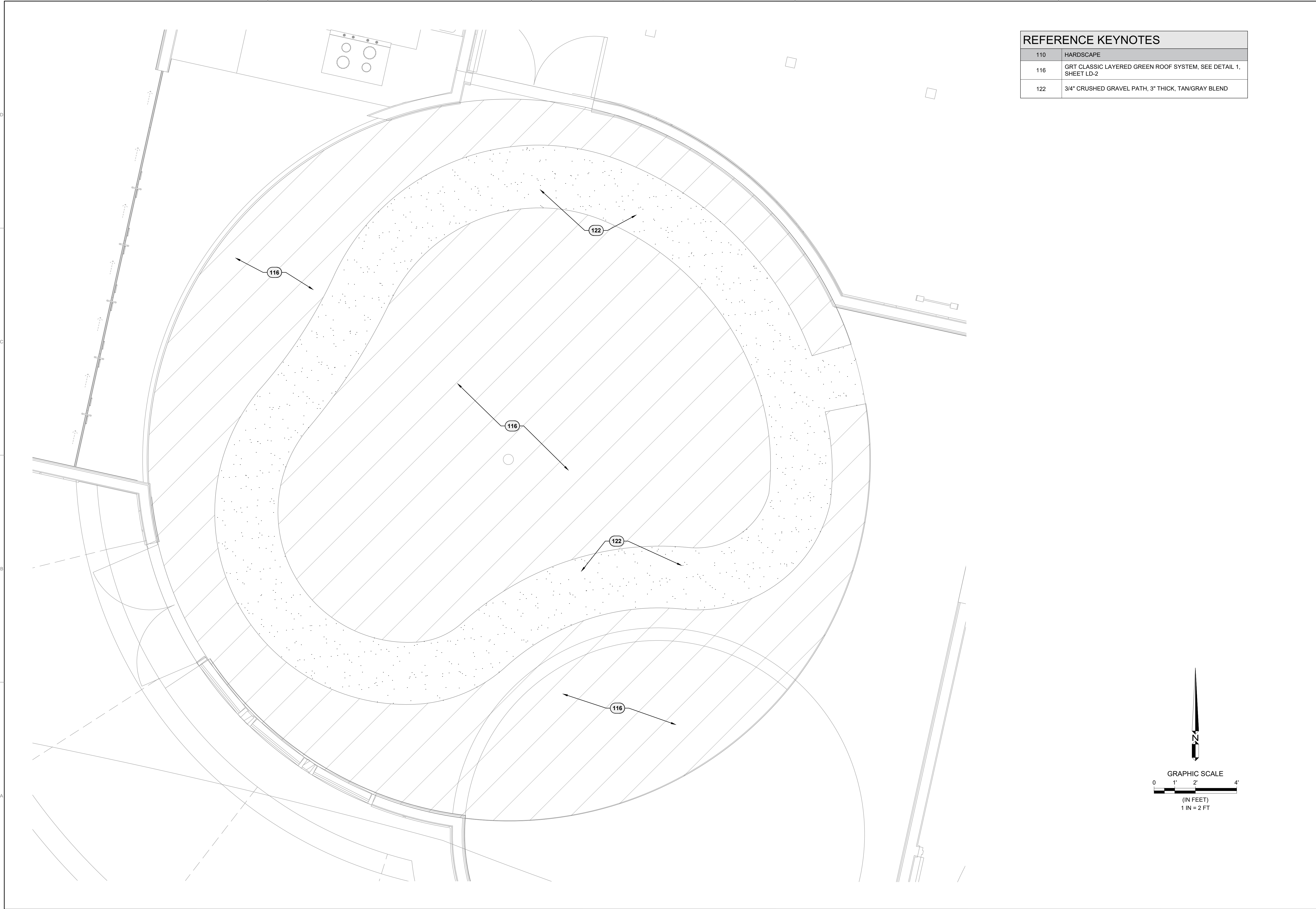
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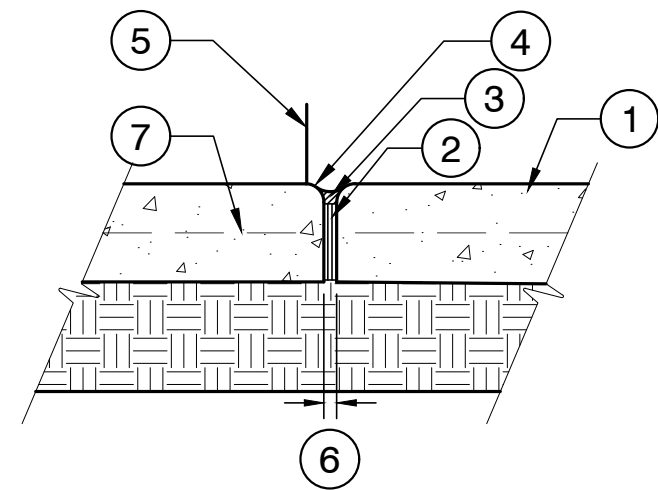
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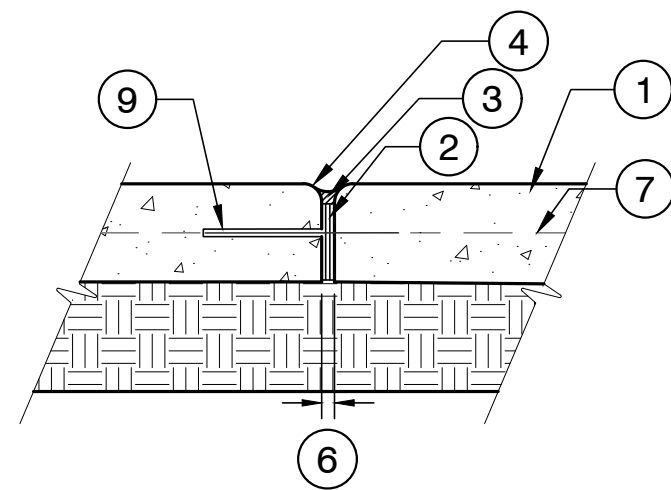


**CITY OF WATSONVILLE
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GREEN ROOF SITE PLAN**

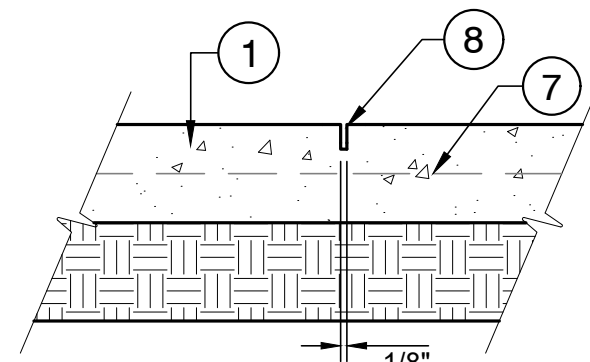
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DESIGNERS: EAS, SJB
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DATE: 07/09/24
**DRAWING NO.
LL-2**
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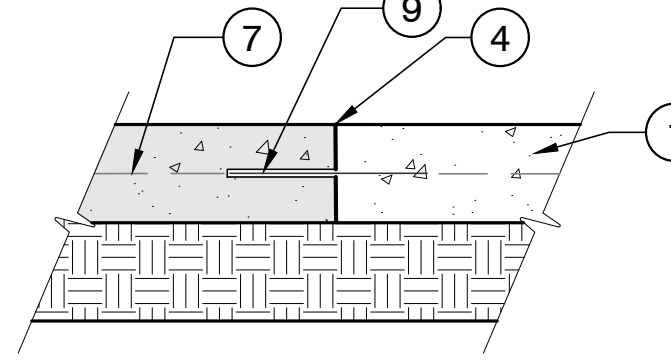
EXPANSION JOINT



DOWELED EXPANSION JOINT



CONTROL JOINT



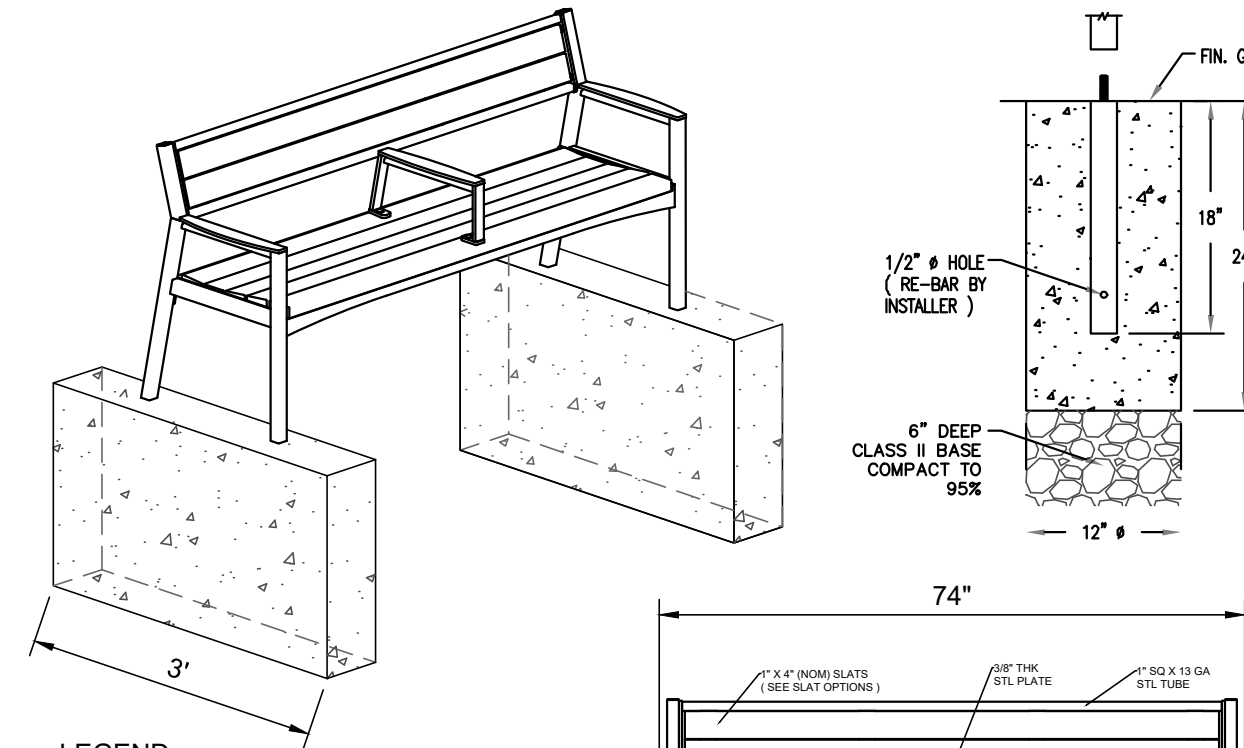
COLD JOINT

LEGEND:

- 1 CONCRETE PAVING
- 2 JOINT BACKER MATERIAL OR POLYFOAM BACKER MATERIAL
- 3 SIKAFLEX - 1A JOINT SEALANT AT 1/2" DEPTH, COLOR TO MATCH ADJACENT HARDSCAPE SURFACE
- 4 1/4" RADIUS TYP.
- 5 FACE OF CURB, CONCRETE PAVING, WALL, BUILDING OR STRUCTURE - WHERE OCCURS
- 6 EXPANSION JOINT WIDTH: PEDESTRIAN PAVING - 3/8" VEHICULAR PAVING - 1/2"
- 7 CONCRETE REINFORCING #3 REBAR @ 18" O.C. BOTH DIRECTIONS IN MIDDLE OF SLAB
- 8 SAWCUT JOINT PER PLANS. 1/2" DEPTH FOR PEDESTRIAN PAVING. 3/4" DEPTH FOR VEHICULAR PAVING. STOPPING JOINT SHORT OF GRATES, WALLS, BUILDING, ETC. IS UNACCEPTABLE.
- 9 NO 3 BAR 24" DOWEL O.C. WITH SLEEVE

NOTES:

- A. SPACE EXPANSION JOINTS PER PLANS OR AT 10' O.C. MAX. SPACE CONTROL JOINTS PER PLANS OR AT 5' O.C. MAX.
- B. WHERE CONCRETE ABUTS WALLS/BUILDING PROVIDE CONTINUOUS EXPANSION JOINT MATERIAL (SEALED, NO DOWEL), TYP.



LEGEND:

- 1 FINISH SURFACE, REFER TO PLANS
- 2 TYPICAL CONCRETE POST FOOTING AS DIMENSIONED

NOTES:

- A. ALL STL. MEMBERS COATED W/ ZINC RICH EPOXY THEN FINISHED W/ POLYESTER POWDER COATING.
- B. ANTIQUE MAHOGANY TEXTURED SLAT OPTION

2 BENCH WITH BACK

1/2" = 1'-0"

P-RA-06

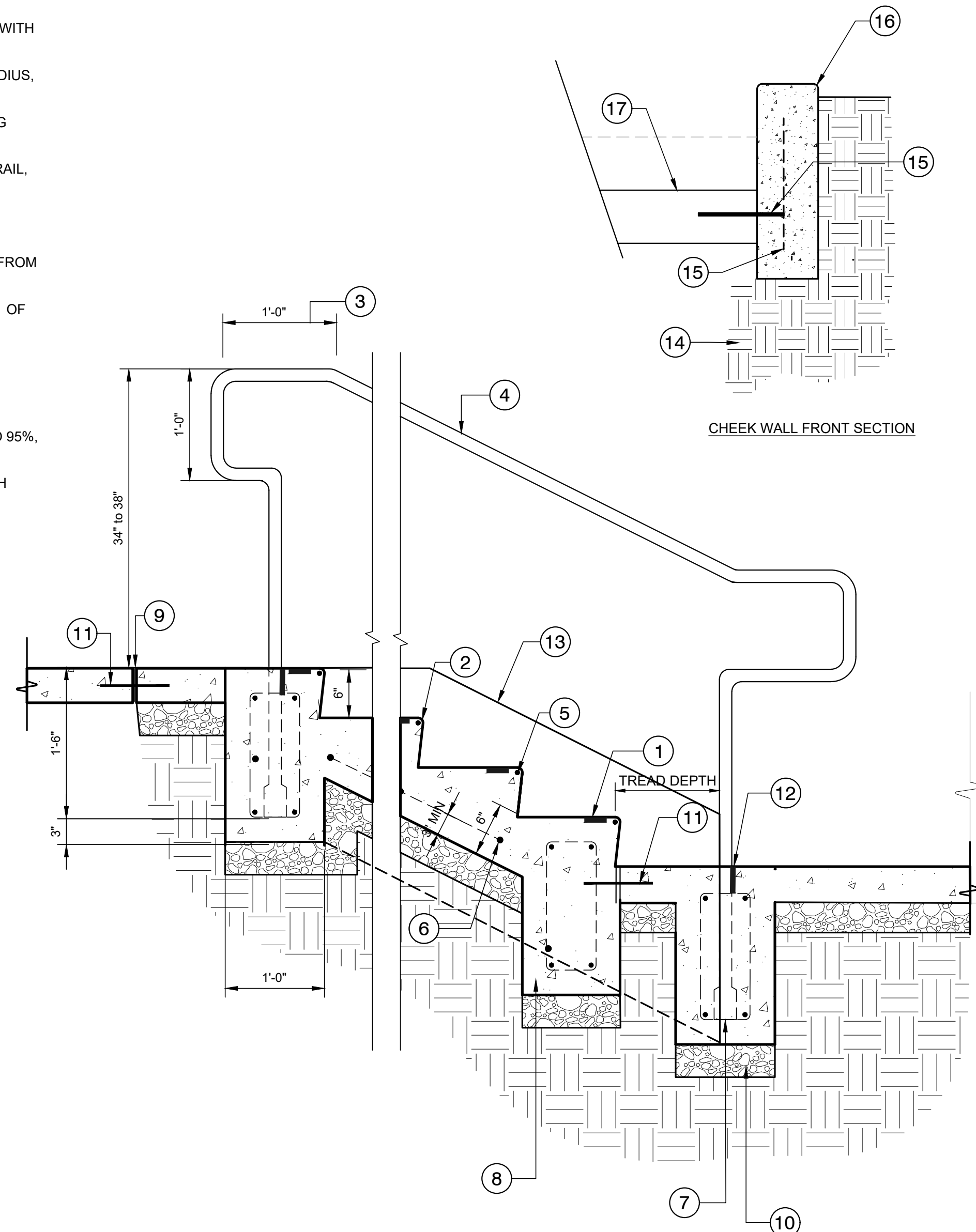
1 CONCRETE JOINTING

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P-RA-03

LEGEND:

- 1 CONTRACTOR SHALL PAINT WARNING STRIPS WITH YELLOW TRAFFIC PAINT
- 2 1/2" BULLNOSE ON ALL STEPS. NOSING 1/4" RADIUS, SPACED 3/4" APART
- 3 EXTEND 12" MIN. LEVEL DISTANCE TO LANDING SURFACE BEFORE RETURNED
- 4 1-1/2" DIAMETER SCHED 40 STEEL PIPE HANDRAIL, GALVANIZED
- 5 NO. 3 NOSING BAR, BEND DOWN 4" AT ENDS, SHOULD BE PLACED MIN. 3" FROM EDGE
- 6 NO. 4 REBAR 9" O.C. E.W., 3" MIN. CLEARANCE FROM FACE
- 7 3 X 3 X 1/2" STEEL PLATE WELDED TO BOTTOM OF RAIL, TYPICAL
- 8 TYPICAL CONCRETE POST FOOTING
- 9 3/8" WIDE ASPHALT IMPREGNATED FIBROUS EXPANSION JOINTS, EACH END
- 10 6" DEEP CLASS 2 AGGREGATE COMPACTED TO 95%, TYP
- 11 "SPEED LOAD" 3/4" X 12" SLEEVE W/ 24" SMOOTH DOWEL AT 18" O.C. CENTERED IN SLAB
- 12 SIKAFLEX JOINT AT ALL PIPE LOCATIONS
- 13 CHEEK WALL
- 14 95% COMPACTED SUBGRADE
- 15 #4 REBAR AS SHOWN
- 16 3/8" RADIUS TYP.
- 17 CONCRETE STEPS



CHEEK WALL FRONT SECTION

3 STAIRS AND HANDRAILS

1" = 1'-0"

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4 CONCRETE MOW STRIP

1/2" = 1'-0"

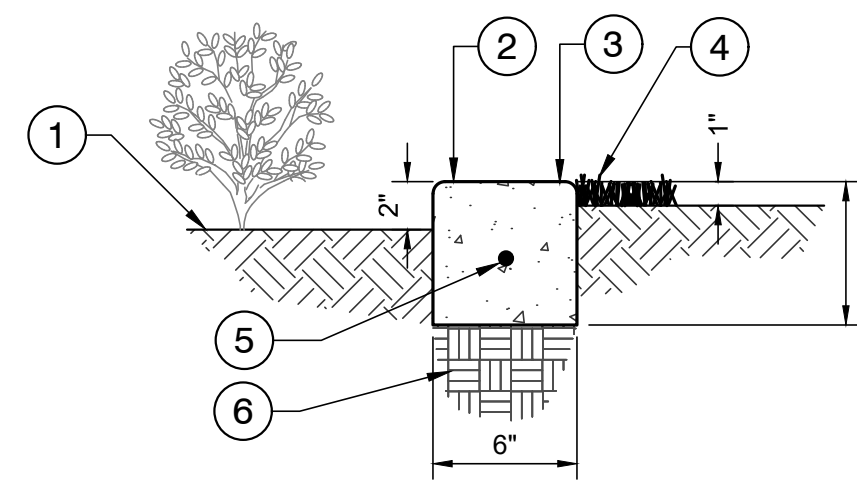
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LEGEND:

- 1 PLANTING AREA
- 2 NATURAL GREY CONCRETE MOW BAND, PCC, CLASS B. SMOOTH TROWEL FINISH.
- 3 1" RADIUS TOOLED EDGE
- 4 TURF
- 5 #3 REBAR CONTINUOUS
- 6 SUBGRADE, COMPACT TO 95% RELATIVE COMPACTION 6" BELOW SURFACE.

NOTES:

- A. UNLESS OTHERWISE SHOWN ON PLANS, PLACE WEAKENED PLANE JOINTS AT 10' AND EXPANSION JOINTS AT 30' ON CENTER.
- B. CONCRETE SHALL BE 3000 PSI.



LEGEND:

- 1 1/2" RADIUS ALL EXPOSED EDGES, TYP.
- 2 TALL CURB OR SEATWALL, REFER TO PLANS
- 3 CHAMFERED JOINT SHALL EXTEND FULL DEPTH OF CONCRETE FEATURE
- 4 3/4" REVEAL ALL EXPOSED SIDES, TYP.

5 CHAMFERED EXPANSION JOINT AT SEATWALL

NTS

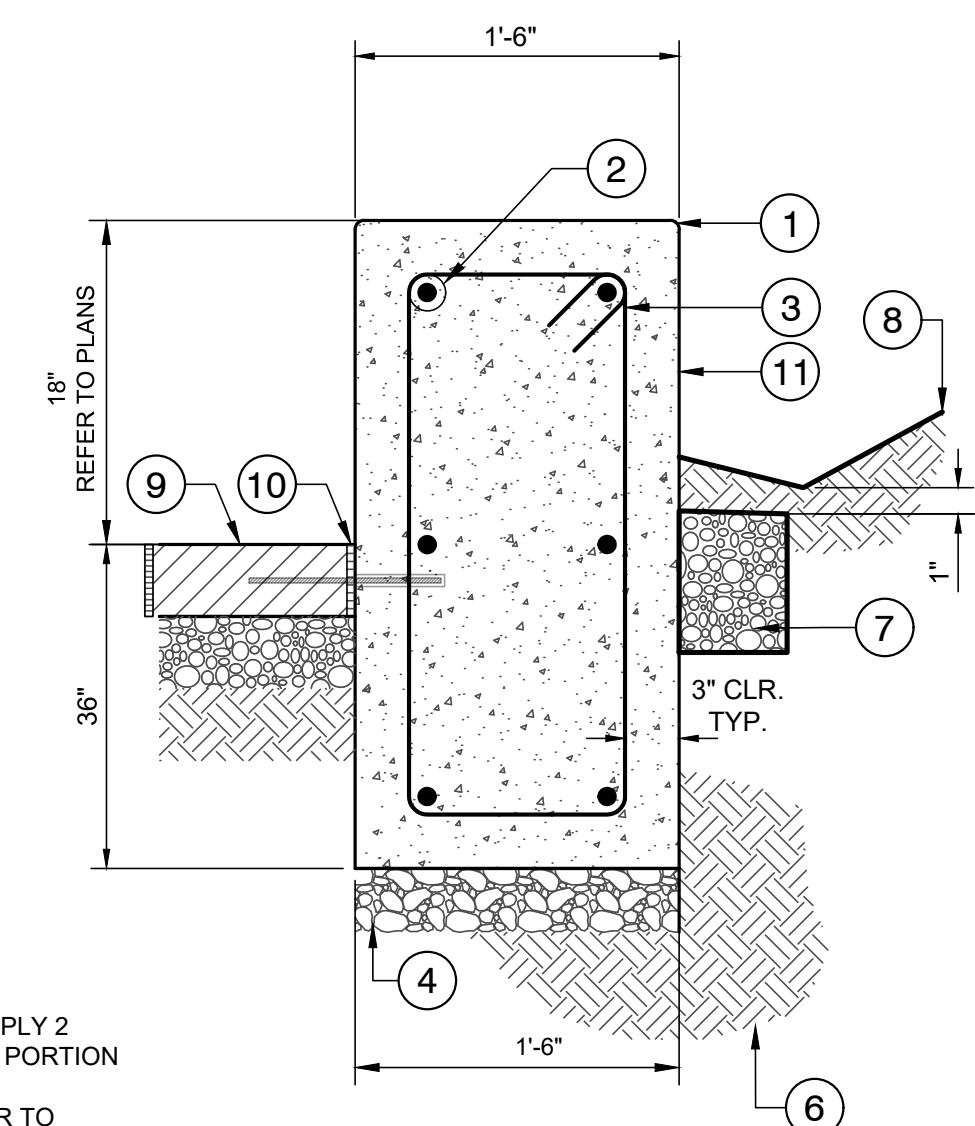
P-RA-04

LEGEND:

- 1 1/2" RADIUS EDGES
- 2 #4 REBAR @ 12" O.C. BOTH WAYS, TYP.
- 3 #4 SHEAR TIES @ 16" O.C.
- 4 AG BASE COMPACTED TO 95% RELATIVE COMPACTION
- 5 COMPACTED SUBGRADE PER SOILS REPORT
- 6 6" WIDE BY 1" DEEP 3/4" SIZE DRAIN ROCK
- 7 FINISH GRADE
- 8 FINISH SURFACE, PERMEABLE PAVERS, ADJACENT SURFACE VARIES, REFER TO PLANS
- 9 EXPANSION JOINT/DOWEL JOINT AT LOCATIONS WHERE SEATWALL IS ADJACENT TO CONCRETE, REFER TO PLANS
- 10 TOP-CAST SAND FINISH, TYP. ALL SIDES, DAYTON SUPERIOR OR APPROVED EQUAL

NOTE:

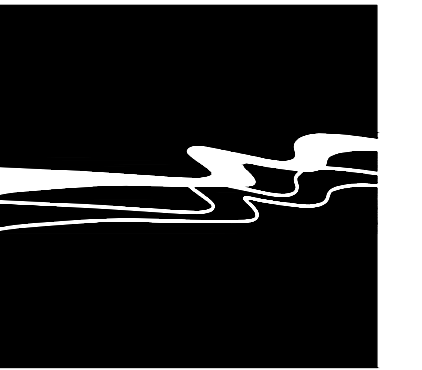
- A. IF SEAT WALL HAS ADJACENT PLANTING AREA / SYNTHETIC TURF AREA, CONTRACTOR SHALL APPLY 2 COATS COAL - TAR BASED WATER PROOFING TO PORTION OF WALL BELOW GRADE.
- B. AMEND SOIL AND INSTALL ROOT BARRIER, REFER TO PLANTING PLAN AND SPECIFICATIONS.



6 WIDE CONCRETE SEAT WALL

3/32" = 1'-0"

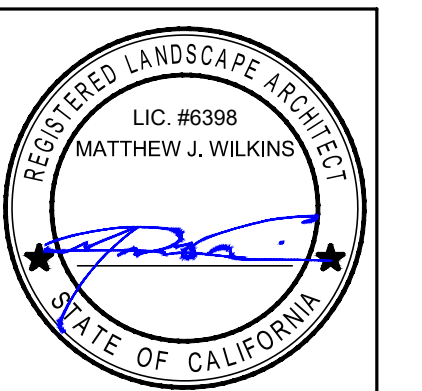
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CITY OF WATSONVILLE
RAMSAY PARK GREEN INFRASTRUCTURE
SITE DETAILS & NOTES

JOB #: 1535-0007
DESIGNERS: EAS/SLB
DRAWN BY: MCC
DATE: 07/09/24

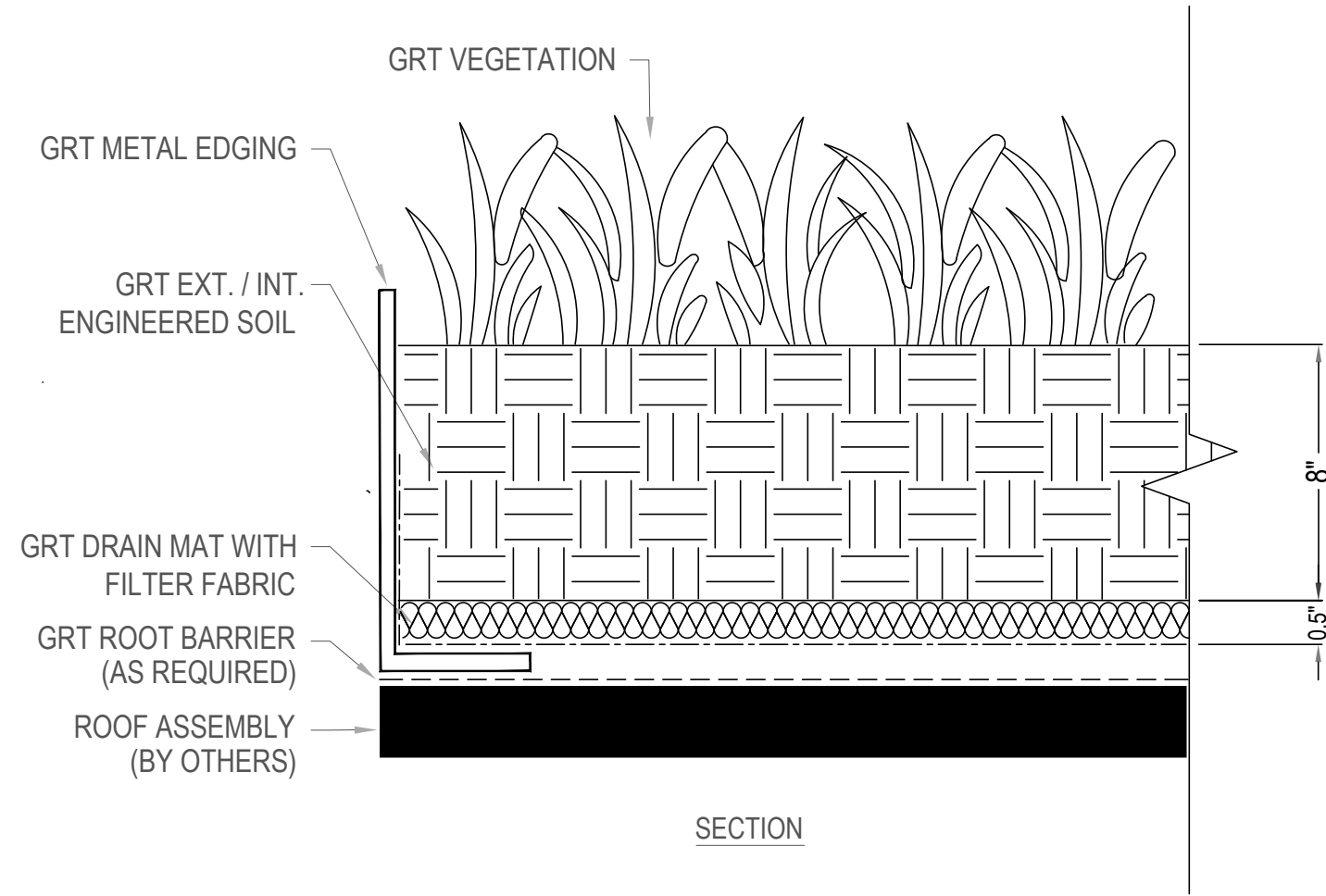
DRAWING NO.
LD-1

10 OF 19 SHEETS



1500 MEDICAL CENTER PKWY
MURFREESBORO, TN 37129
www.greenrisetech.com

GRT CLASSIC SYSTEM



- NOTES:**
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
 2. DO NOT SCALE DRAWING.
 3. THIS DRAWING IS INTENDED FOR USE BY ARCHITECTS, ENGINEERS, CONTRACTORS, CONSULTANTS AND DESIGN PROFESSIONALS FOR PLANNING PURPOSES ONLY. THIS DRAWING MAY NOT BE USED FOR CONSTRUCTION.
 4. ALL INFORMATION CONTAINED HEREIN WAS CURRENT AT THE TIME OF DEVELOPMENT BUT MUST BE REVIEWED AND APPROVED BY THE PRODUCT MANUFACTURER TO BE CONSIDERED ACCURATE.
 5. CONTRACTOR'S NOTE: FOR PRODUCT AND COMPANY INFORMATION VISIT WWW.GREENRISETECH.COM.

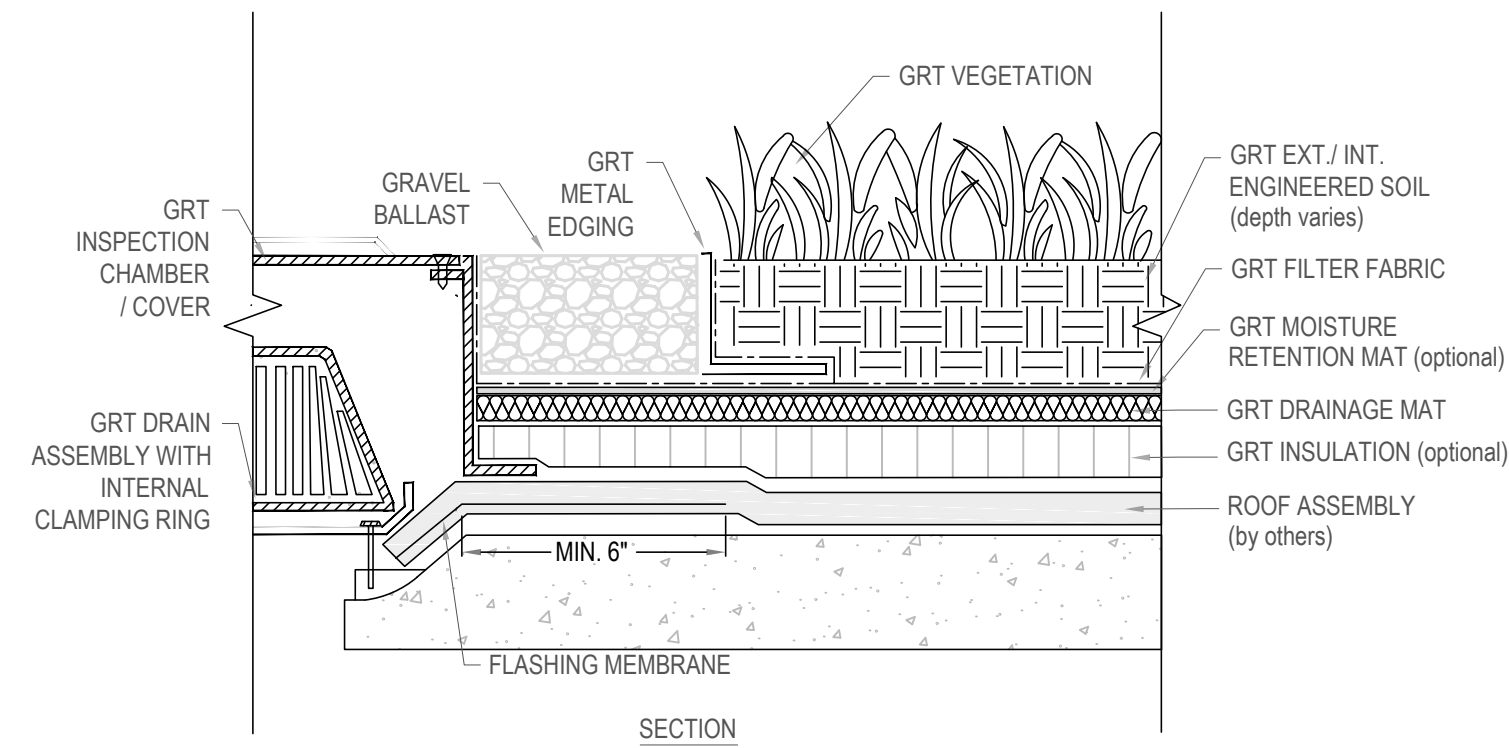
1 GRT CLASSIC LAYERED GREEN ROOF SYSTEM

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REVISION DATE 9/29/2022



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2 GRT LAYERED GREEN ROOF SYSTEM AT ROOF DRAIN

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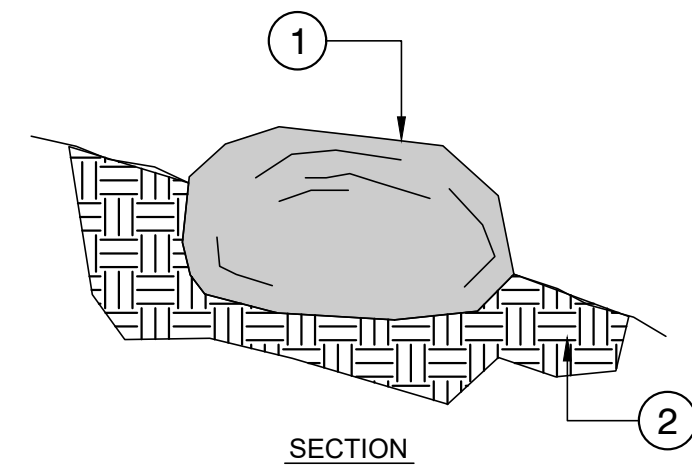
REVISION DATE 7/12/23

LEGEND:

- ① BOULDER, TO BE SELECTED BY LANDSCAPE ARCHITECT
- ② COMPACTED SUBRADE

NOTES:

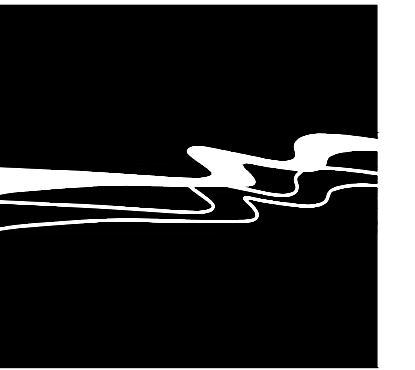
- A. DEPRESS BOULDER MASS 1/3 TO 1/2 BELOW GRADE AS SHOWN
- B. SEE LANDSCAPE LAYOUT PLAN FOR LOCATIONS
- C. BOULDER GROUPINGS SHALL BE VARYING SIZES, NOT LESS THAN 2' IN ANY EXPOSED DIMENSION



3 BOULDER PLACEMENT ON SLOPE

NTS

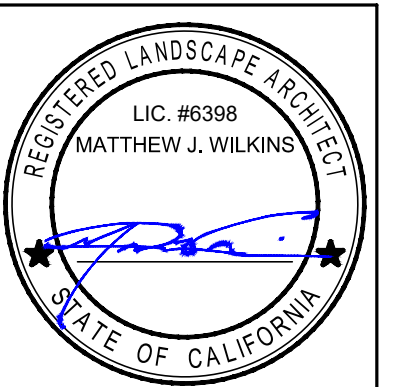
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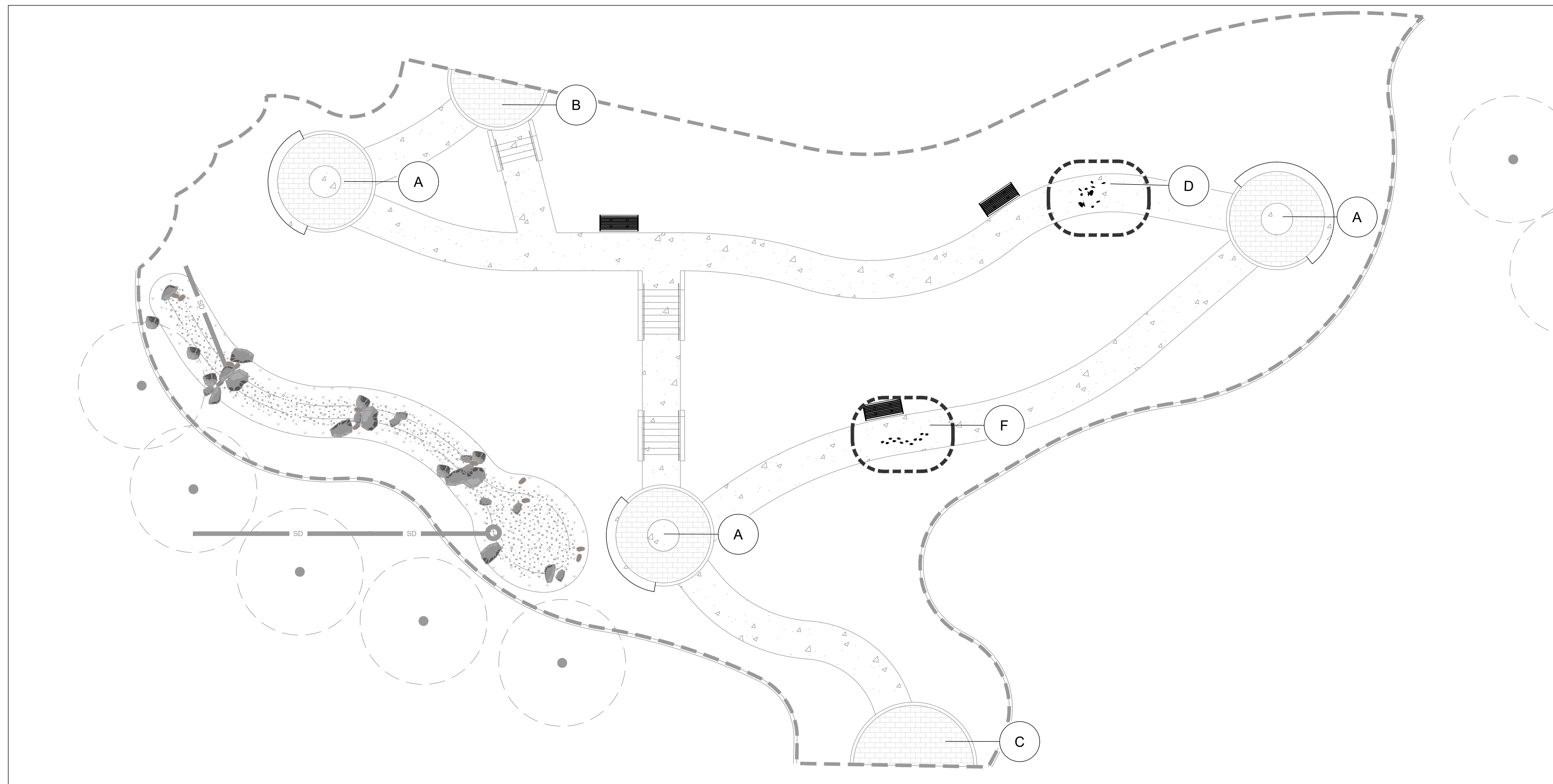
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CITY OF WATSONVILLE
RAMSAY PARK GREEN INFRASTRUCTURE
SITE DETAILS

JOB #: 1535-0007
DESIGNERS: EAS/SLB
DRAWN BY: MCC
DATE: 07/09/24

DRAWING NO.
LD-2
11 OF 19 SHEETS



PAVER COLORS:

1. MAIN FIELD - B5 MOHAVE DUNES
2. ACCENT: S5 CHARCOAL
3. 5' DIAMETER MOSAIC MEDALLION FIELD

NOTES:

- A. CONTRACTOR SHALL ACCOUNT FOR PAW PRINTS AND LEAF IMPRINTS FOR THE ENTIRE CONCRETE PATHWAY AND INCLUDE PRICING FOR THIS ITEM IN THE CONCRETE BID ITEM. PLANT AND ANIMAL SPECIES TO BE CHOSEN BY THE CITY. SEE SPECIFICATIONS.
- B. ABALONE CHIPS SHALL BE BROADCAST IN SPECIFIC LOCATIONS (IDENTIFIED BY CITY REPRESENTATIVE) FOR A TOTAL OF 10% OF PATH CONCRETE (APPROXIMATELY 200 SQUARE FEET).
- C. SPECIFIC LOCATIONS OF LEAVES AND ANIMAL PRINTS TO BE LOCATED IN THE FIELD BY CITY REPRESENTATIVE.
- D. PROVIDE A 4'X4' MOCK-UP SHOWING ALL REPRESENTATIVE IMPRINTS FOR REVIEW AND APPROVAL BY THE CITY BEFORE CONSTRUCTION. THIS MOCK-UP SHALL BE SEPARATE FROM THE WALKWAY.
- E. CONTRACTOR SHALL PROVIDE AN IN-PLACE MOCK-UP OF THE PAVERS FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION. PROVIDE ONE (1) MOCK-UP FOR BOTH INTERMEDIATE LANDING AND ENTRY DESIGNS.
- F. MOSAIC MEDALLION TO BE PROVIDED BY CITY. CONTRACTOR SHALL INSTALL 5' DIAMETER CONCRETE PAD, 4" THICK. BASE MATERIAL TO FOLLOW CONCRETE DETAIL 7, SHEET C-4.0. CONTRACTOR SHALL ENSURE CONCRETE PAD IS SET $\frac{3}{8}$ " LOWER THAN SURROUNDING PAVERS TO ALLOW FOR MOSAIC INLAY.
- G. SEE PAVES DETAIL 6 ON SHEET C-4.0.
- H. SEE SPECIFICATIONS FOR MORE INFORMATION.



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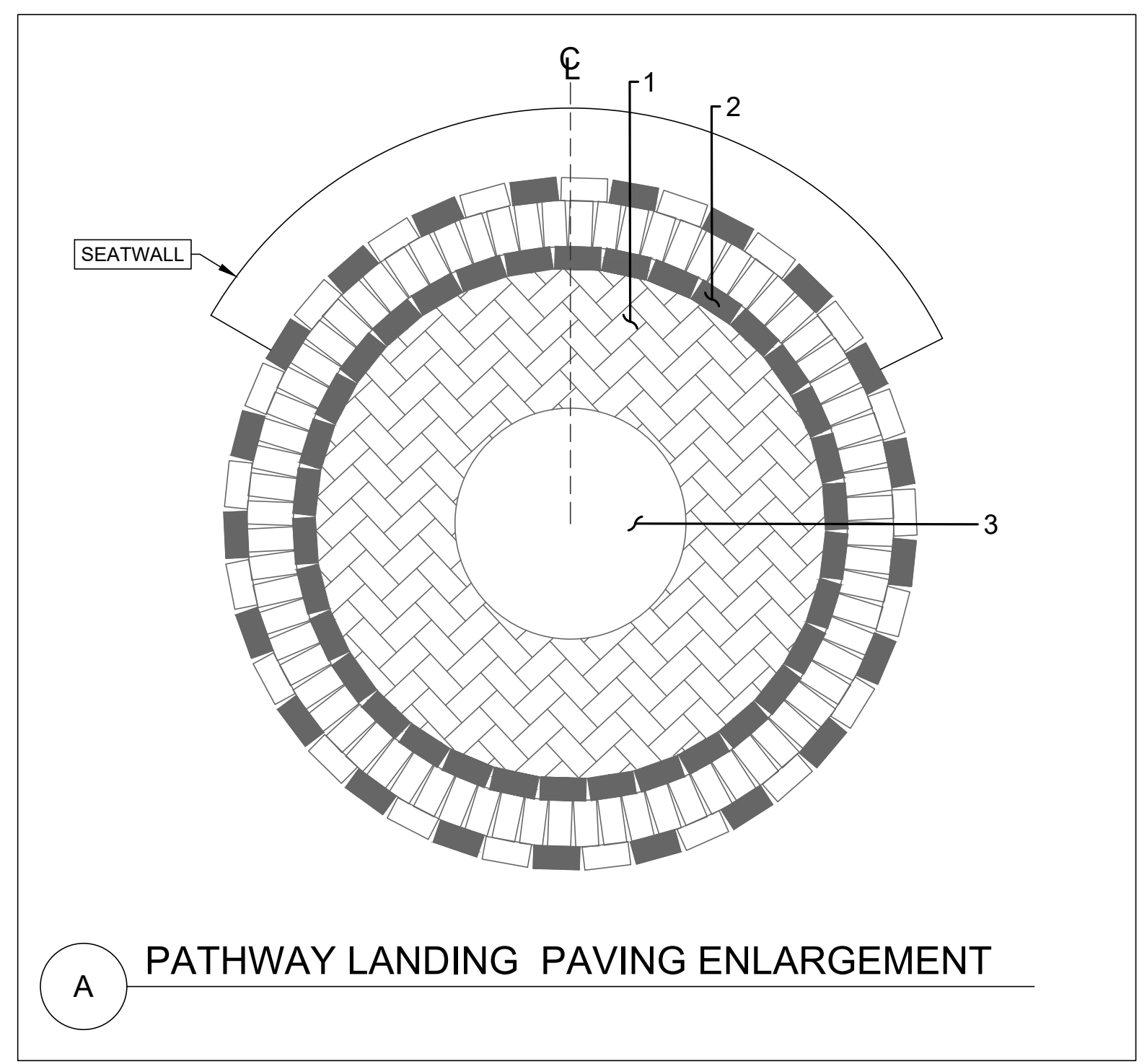
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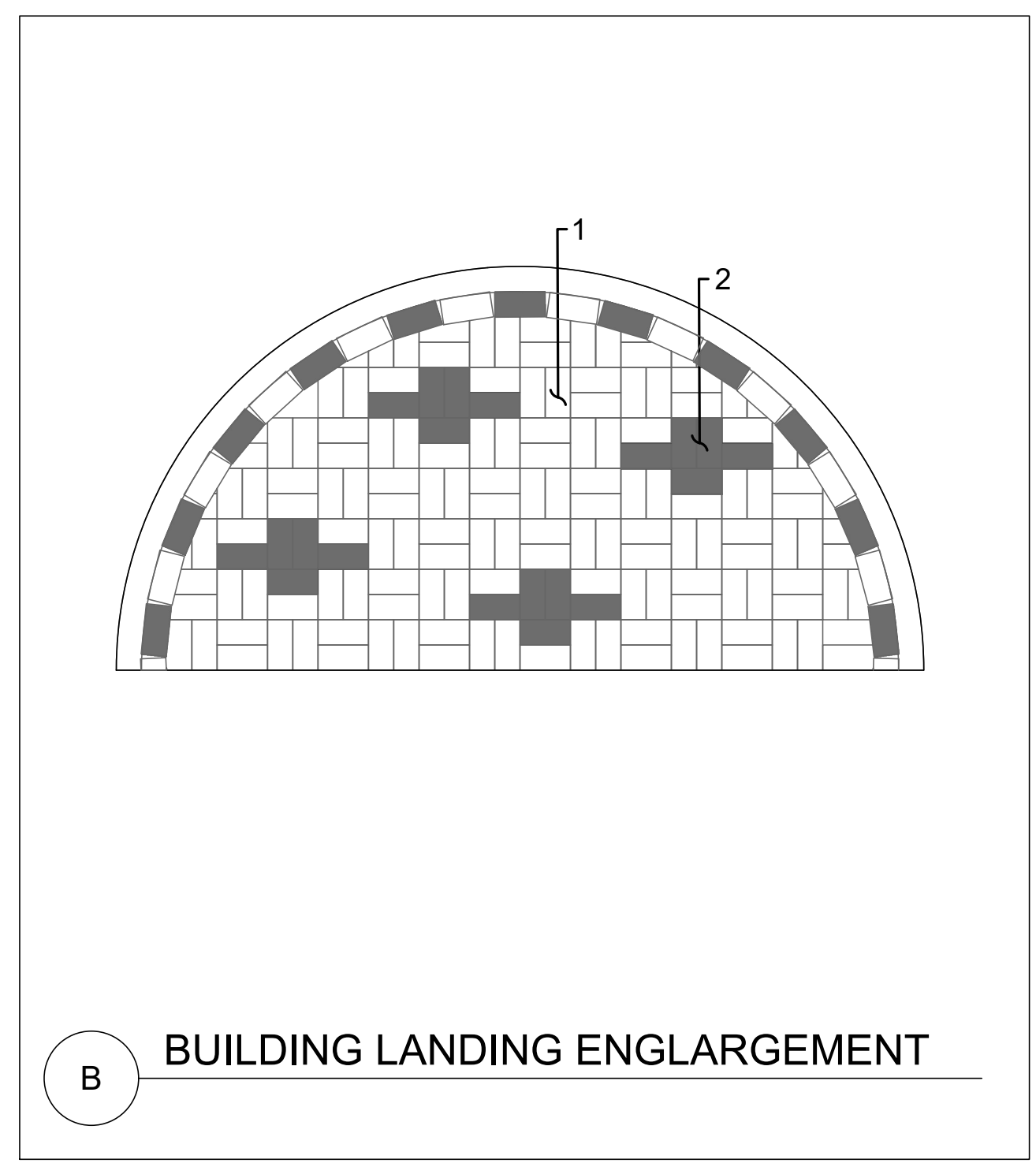


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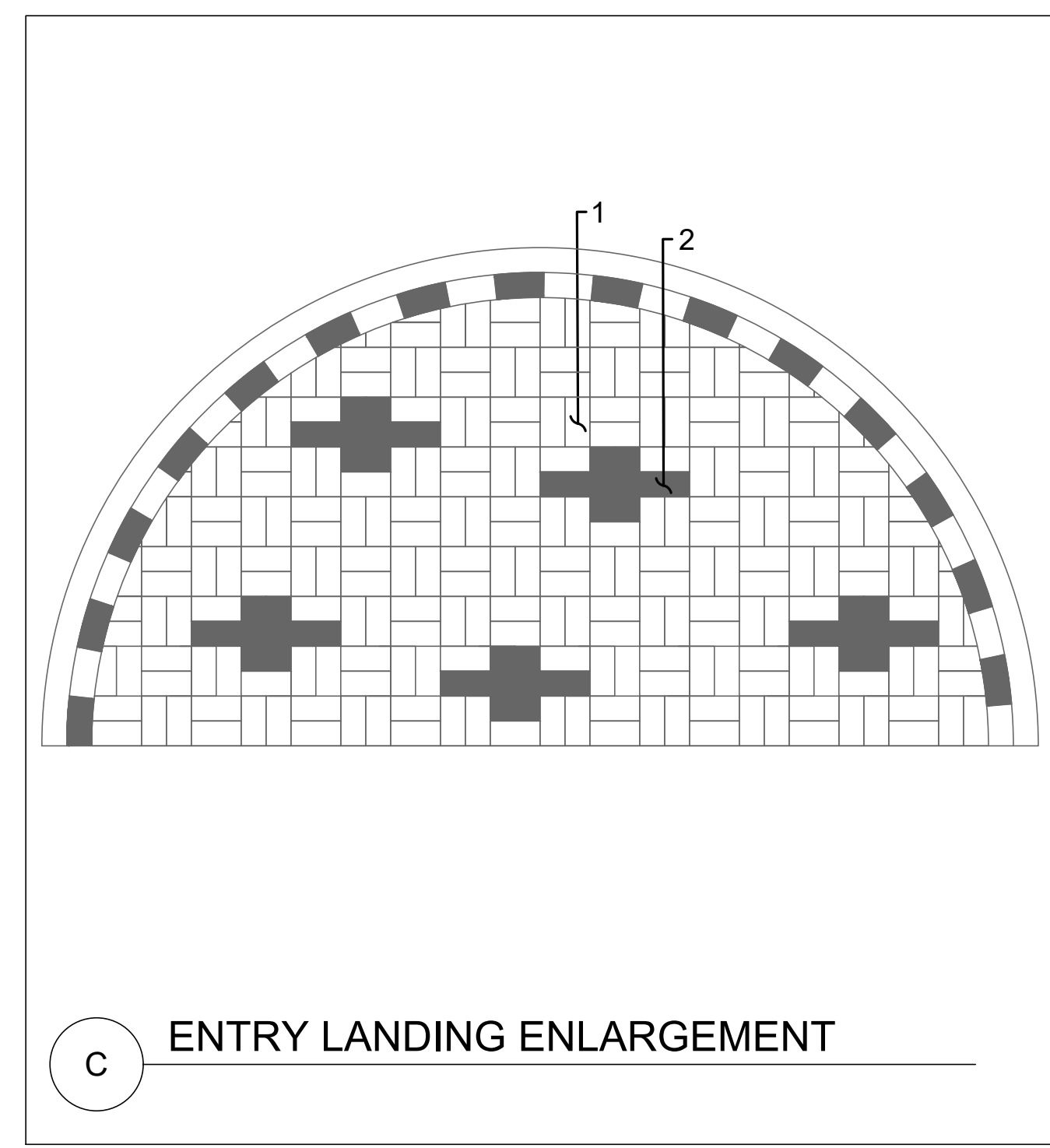
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A PATHWAY LANDING PAVING ENLARGEMENT



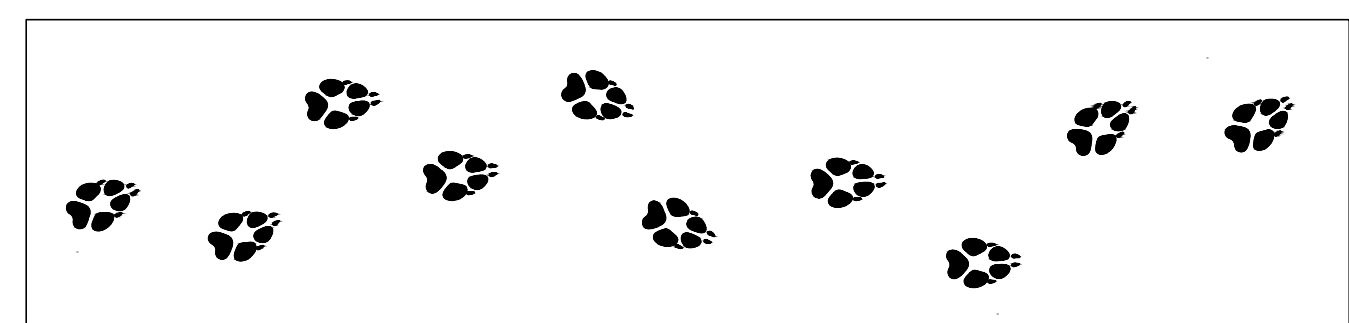
B BUILDING LANDING ENLARGEMENT



C ENTRY LANDING ENLARGEMENT



D STAMPED CONCRETE: LEAVES



F STAMPED CONCRETE: ANIMAL PRINTS

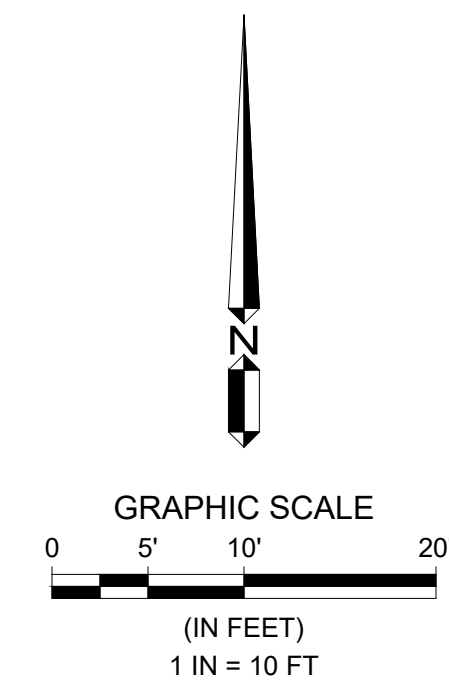
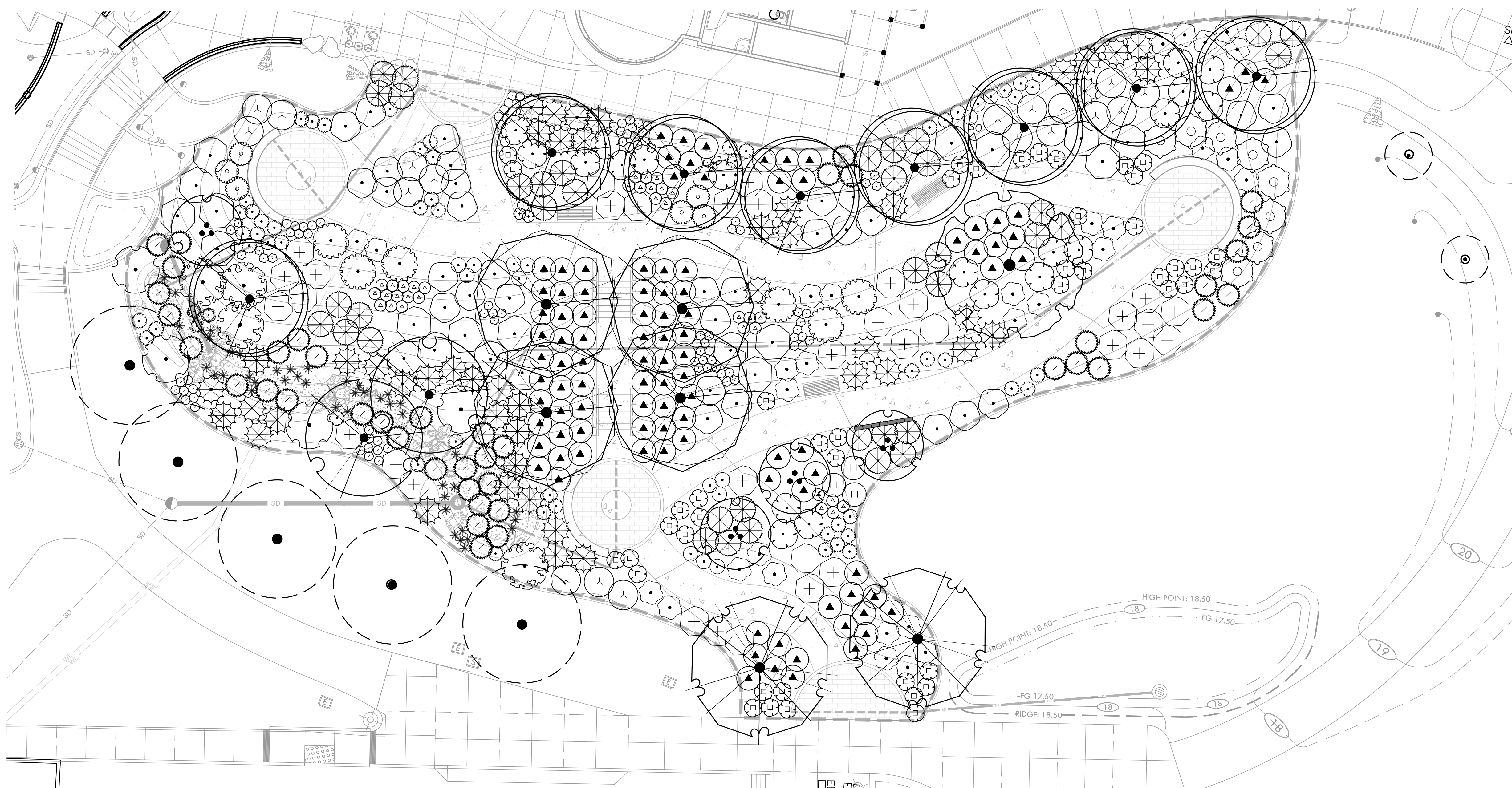
1 DECORATIVE PAVERS AND ETCHED CONCRETE

SCALE: 1" = 3'-0"

CITY OF WATSONVILLE
RAMSAY PARK GREEN INFRASTRUCTURE
SITE DETAIL

JOB #: 1535-0007
DESIGNERS: EAS/SLB
DRAWN BY: MCC
DATE: 07/09/24

DRAWING NO.
LD-3
12 OF 19 SHEETS



NOTES:

1. PLANTING ON THIS SHEET SHALL BE INSTALLED BY WETLANDS WATCH. CONTRACTOR IS RESPONSIBLE FOR SITE AND SOIL PREP, IRRIGATION, AND ALL OTHER MATERIAL AND FURNISHING INSTALLATION.



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PLANT SCHEDULE SLOPE & WALKWAY PLANTING			
SYMBOL	BOTANICAL / COMMON NAME	CONT	QTY
TREES			
	ARBUTUS MENZIESII / PACIFIC MADRONE	15 GAL	2
	CORNUS SERICEA OCCIDENTALS / WESTERN RED TWIG DOGWOOD	15 GAL	4
	EXISTING TREE	NA	7
	QUERCUS AGRIFOLIA / COAST LIVE OAK	15 GAL	1
	QUERCUS TOMENTELLA / ISLAND OAK	15 GAL	8
	QUERCUS TOMENTELLA / ISLAND OAK TWO (2) EXISTING TREES TO BE TRANSPLANTED FROM OTHER LOCATION IN PARK	EXISTING	2
	UMBELLULARIA CALIFORNICA STD / BAY LAUREL	15 GAL	4

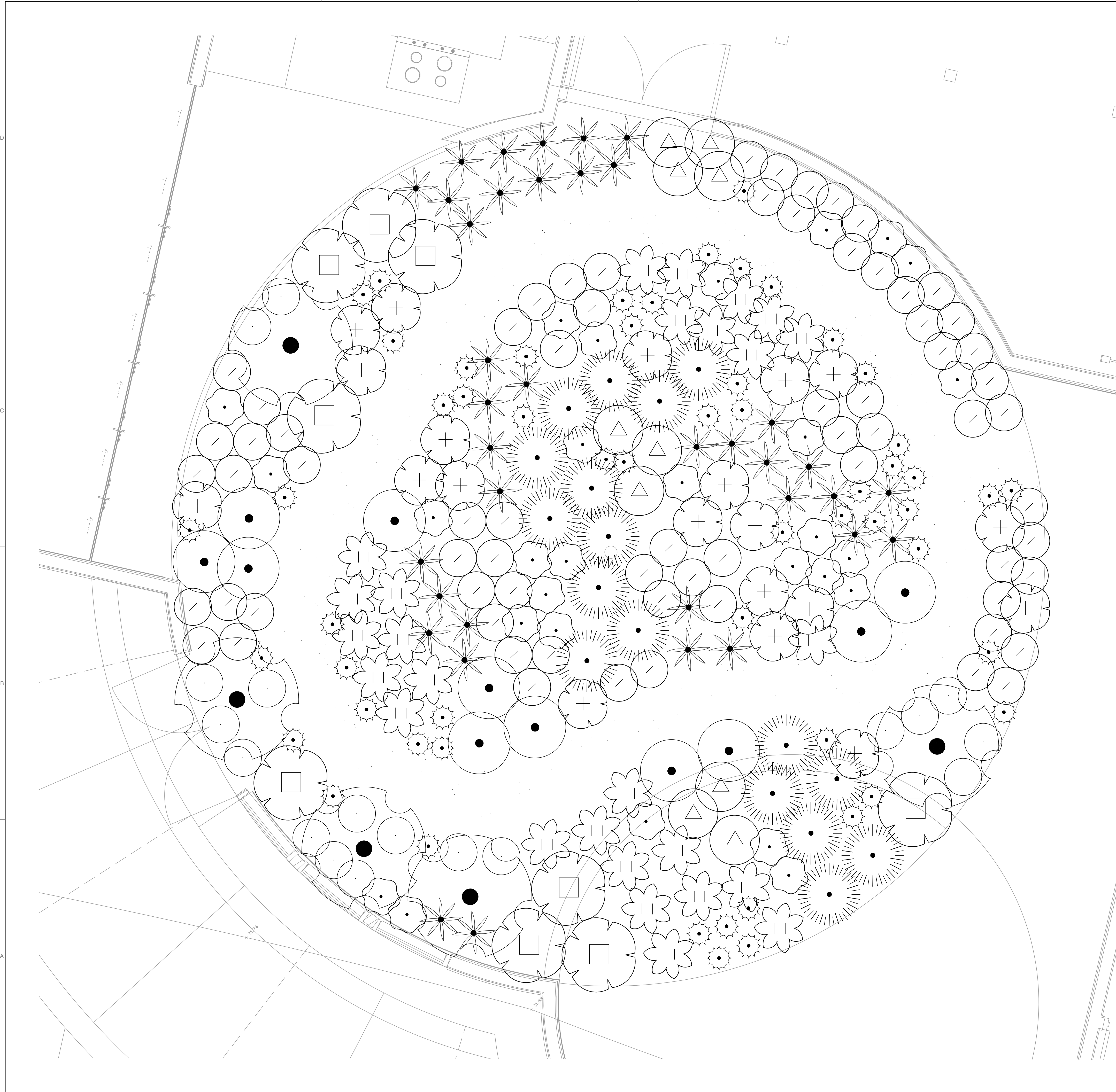
SHRUBS			
	ACHILLEA MILLEFOLIUM 'NOVAACHDUS' / MOON DUST COMMON YARROW	1 GAL	35
	ARCTOSTAPHYLOS PAJAROENSIS 'PARADISE' / PARADISE PAJARO MANZANITA	5 GAL	6
	ARCTOSTAPHYLOS X 'EMERALD CARPET' / EMERALD CARPET MANZANITA	5 GAL	101
	ARTEMISIA CALIFORNICA / CALIFORNIA SAGEBRUSH	5 GAL	6
	ARTEMISIA CALIFORNICA 'CANYON GREY' / PROSTRATE CALIFORNIA SAGEBRUSH	5 GAL	31
	CAREX TUMULICOLA / FOOTHILL SEDGE	1 GAL	43
	CEANOTHUS GRISEUS HORIZONTALIS 'YANKEE POINT' / YANKEE POINT CALIFORNIA LILAC	5 GAL	38
	CEANOTHUS THYRSIFLORUS 'SKYLARK' / SKYLARK BLUEBLOSSOM	5 GAL	18
	CORYLUS CORNUTA CALIFORNICA / WESTERN HAZELNUT	15 GAL	4
	DUDLEYA BRITTONII / GIANT CHALK DUDLEYA	1 GAL	3
	ELYMUS GLAUCUS / BLUE WILDRIE	1 GAL	3
	EPILOBIUM CANUM / CALIFORNIA FUCHSIA	1 GAL	45
	ERIGERON GLAUCUS / SEASIDE DAISY	1 GAL	21
	ESCHSCHOLZIA CALIFORNICA / CALIFORNIA POPPY	1 GAL	50
	FRANGULA CALIFORNICA 'MOUND SAN BRUNO' / MOUND SAN BRUNO COFFEEBERRY	5 GAL	8
	IRIS DOUGLASSIANA PCH 'CANYON SNOW' / CANYON SNOW IRIS	1 GAL	11

	JUNCUS PATENS / CALIFORNIA GRAY RUSH	1 GAL	41
	MIMULUS AURANTIACUS / STICKY MONKEYFLOWER	1 GAL	48
	MUHLENBERGIA RIGENS / DEER GRASS	1 GAL	47
	RIBES SANGUINEUM / RED FLOWERING CURRANT	5 GAL	20
	ROSA CALIFORNICA / CALIFORNIA WILD ROSE	5 GAL	3
	SALVIA APIANA / WHITE SAGE	5 GAL	31
	SALVIA COLUMBARIAE / CHIA	1 GAL	33
	SALVIA MELLIFERA / BLACK SAGE	5 GAL	20
	SALVIA X 'POZO BLUE' / POZO BLUE SAGE	5 GAL	34
	SAMBUCUS MEXICANA / MEXICAN ELDERBERRY	5 GAL	4

--- ROOT BARRIER

CITY OF WATSONVILLE
RAMSAY PARK GREEN INFRASTRUCTURE
SLOPE PLANTING PLAN

JOB #: 1535-0007
 DESIGNERS: SLB
 DRAWN BY: MCC
 DATE: 7/9/2024
DRAWING NO.
PL-1
 13 OF 19 SHEETS

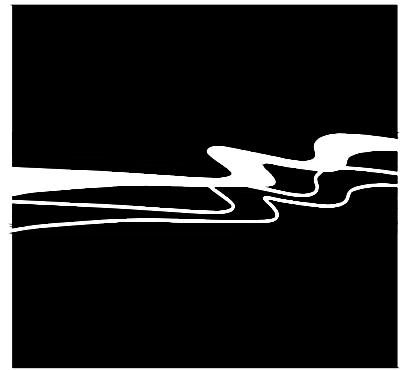
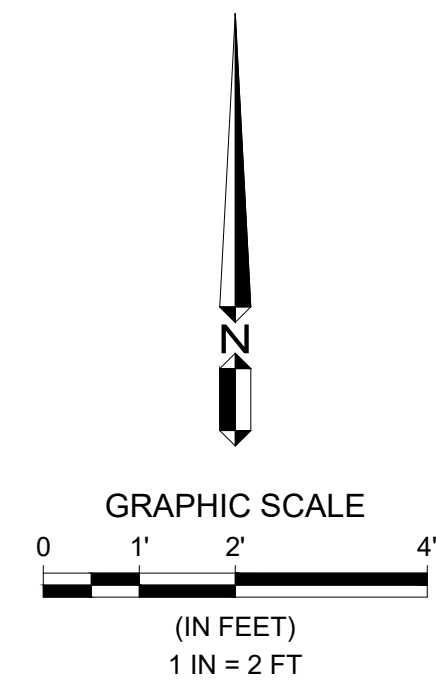


PLANT SCHEDULE GREEN ROOF

SYMBOL	BOTANICAL / COMMON NAME	CONT	QTY
SHRUBS			
☑	ACHILLEA MILLEFOLIUM 'NOVAACHDUS' / MOON DUST COMMON YARROW	1 GAL	69
✿	CAREX TEXENSIS / TEXAS SEDGE	1 GAL	27
✱	CAREX TUMULICOLA / FOOTHILL SEDGE	1 GAL	37
⊕	DUDLEYA BRITTONII / GIANT CHALK DUDLEYA	1 GAL	20
⊙	ELYMUS GLAUCUS / BLUE WILD RYE	1 GAL	17
⊞	EPILOBIUM CANUM / CALIFORNIA FUCHSIA	1 GAL	9
⊙	ERIGERON GLAUCUS / SEASIDE DAISY	1 GAL	11
⊞	ESCHSCHOLZIA CALIFORNICA / CALIFORNIA POPPY	1 GAL	28
⊙	IRIS DOUGLASSIANA PCH 'CANYON SNOW' / CANYON SNOW IRIS	1 GAL	18
✿	SALVIA APIANA / WHITE SAGE	1 GAL	5
⊞	SALVIA COLUMBARIARAE / CHIA	1 GAL	10
✱	SISYRINCHIUM BELLUM / BLUE-EYED GRASS	1 GAL	56

NOTES:

1. SOIL MEDIUM TO BE A LIGHT WEIGHT GREEN ROOF SOIL BLEND MIX. SEE SPECIFICATIONS.
2. MULCH AROUND PLANTS WITH 3/4" CRUSHED GRAVEL, 2" DEEP.
3. GRAVEL PATH TO BE 3/4" CRUSHED GRAVEL, 3" DEEP.
4. PEDESTRIAN TRAFFIC OVER THE WORKING AREA SHALL BE RESTRICTED AND CONTROLLED TO QUALIFIED PERSONNEL ONLY.
5. PRIOR TO INSTALLATION OF GREEN ROOF COMPONENTS, INSPECT THE SUBSTRATE. IT MUST BE CLEAN AND FREE OF PROJECTIONS AND DEBRIS THAT COULD IMPAIR THE PERFORMANCE OF THE INSTALLATION.
6. THE TOTAL DEPTH OF ROOF SOIL AND CRUSHED GRAVEL IS 8-INCHES. CARE MUST BE TAKEN TO AVOID USE OF SHARP TOOLS THAT MAY COME IN CONTACT WITH THE ROOF WATERPROOFING SUBSTRATE. USE SHORT HAND TOOLS ONLY. SHOVELS AND OTHER LONG HANDLED TOOLS ARE PROHIBITED ON THE GREEN ROOF EXCEPT FOR RAKES TO AID IN SPREADING THE SOIL MEDIA OR CRUSHED GRAVEL.



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CITY OF WATSONVILLE
RAMSAY PARK GREEN INFRASTRUCTURE
GREEN ROOF PLANTING PLAN

JOB #: 1535-0007
DESIGNERS: SLB
DRAWN BY: MCC
DATE: 07/09/24
DRAWING NO.
PL-2
14 OF 19 SHEETS

PLANTING NOTES:

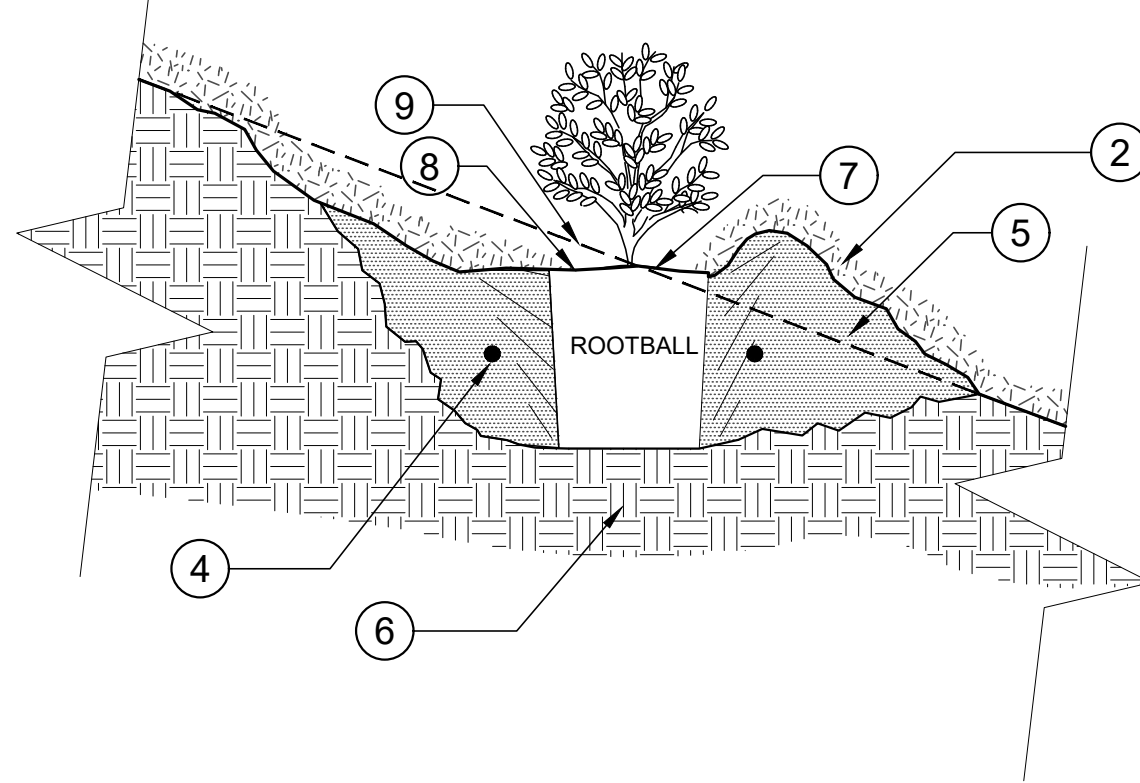
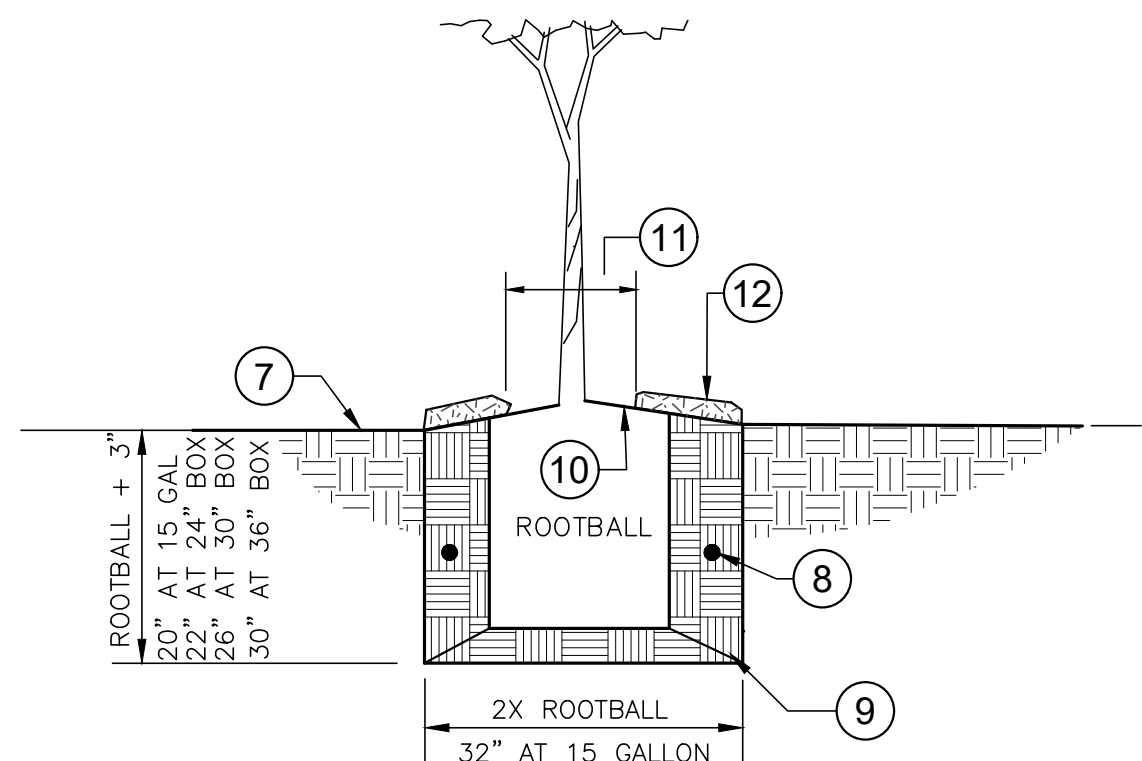
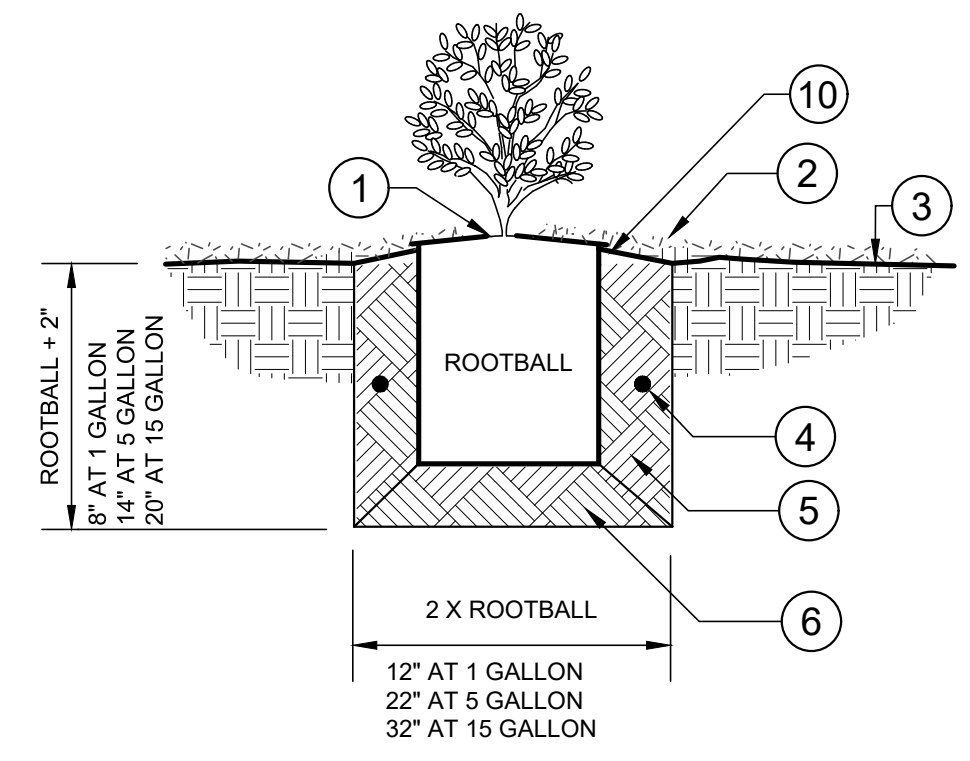
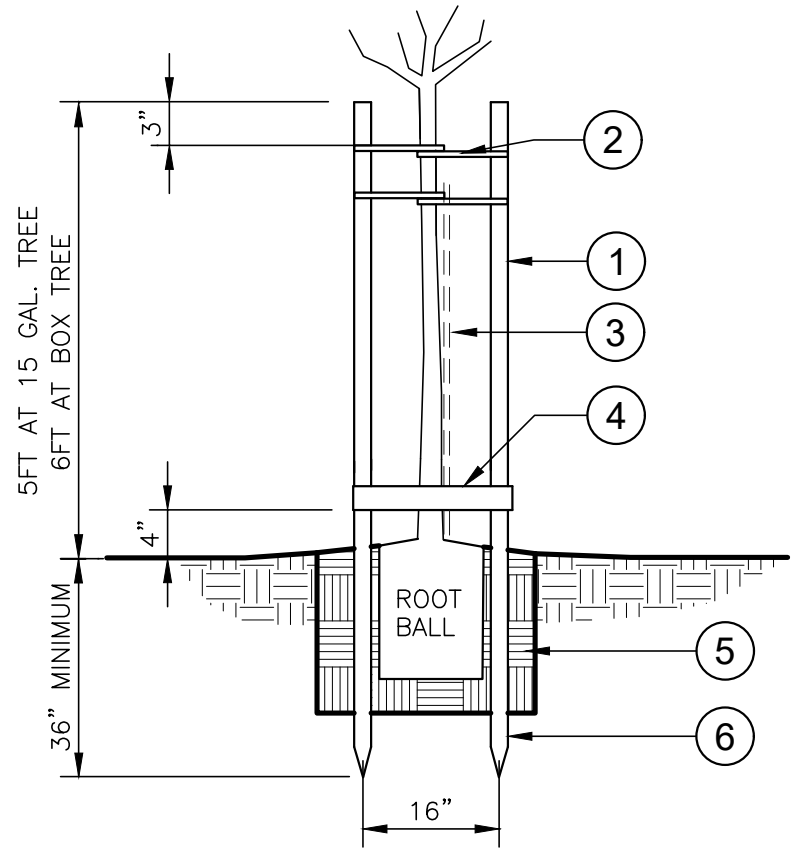
- REFER TO PLANTING PLANS, PLAN NOTES, SPECIFICATIONS, PLANT LEGEND, AND PLANTING DETAILS FOR ADDITIONAL PLANTING INFORMATION. REFER TO IRRIGATION PLANS, NOTES, SPECIFICATIONS, AND DETAILS FOR RELATED LANDSCAPE WORK.
- NOTIFY OWNER'S REPRESENTATIVE (REP.) 48 HOURS MINIMUM PRIOR TO COMMENCEMENT OF WORK TO COORDINATE PROJECT INSPECTION SCHEDULE.
- VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS BEFORE PROCEEDING WITH THE WORK. IMMEDIATELY NOTIFY OWNER'S REPRESENTATIVE OF FIELD CONDITIONS THAT VARY FROM THOSE SHOWN ON DRAWINGS AND SEEK CORRECTIONS AND DIRECTIONS BEFORE PROCEEDING WITH WORK. ASSUME FULL RESPONSIBILITY FOR ALL NECESSARY CORRECTIONS DUE TO FAILURE TO REPORT KNOWN DISCREPANCIES.
- LOCATE AND MARK ALL EXISTING UTILITIES WHETHER SHOWN HEREON OR NOT. PROTECT FROM DAMAGE ALL UTILITIES, AREAS AND STRUCTURES IN AND AROUND LANDSCAPE WORK AREAS. ASSUME FULL RESPONSIBILITY AND EXPENSE FOR REPAIR AND REPLACEMENT OF DAMAGES CAUSED BY CONTRACTOR.
- LOCATION OF NON-LANDSCAPE CONSTRUCTION ELEMENTS SUCH AS LIGHTS, SIGNS, VENTS, HYDRANTS, TRANSFORMERS, AND OTHER STRUCTURES OR ELEMENTS ARE APPROXIMATE. CONTRACTOR SHALL VERIFY FIELD CONDITIONS WHETHER SHOWN HEREON OR NOT. WHEN SHOWN ITEMS DO NOT CORRESPOND TO FIELD CONDITIONS, REPORT DISCREPANCIES TO OWNER'S REP. FOR CLARIFICATIONS AND INSTRUCTIONS PRIOR TO PROCEEDING WITH WORK.
- PLANTING ACCESSORIES & MATERIAL:
 - TREE TIE: CINCH TIE, BY V.I.T. PRODUCTS, 800-729-1314.
 - FERTILIZER TABLETS: AGRIFORM (OR APPROVED EQUAL) 20-10-5, THREE 20-GRAM TABLETS FOR 15 GALLON OR LARGER SIZE TREES, TWO 10-GRAM TABLETS FOR 5 GALLON SIZE PLANTS, ONE 10-GRAM TABLET FOR 1 GALLON SIZE.
 - ROOT BARRIER: 18" DEEP X 10' INJECTION MOLDED CO-POLYMER POLYPROPYLENE ROOT BARRIER PANELS.
 - TOPSOIL (BACKFILL MIX): 60-70% LOAM TOPSOIL THOROUGHLY MIXED WITH 30-40% FULLY COMPOSTED ORGANIC MATERIAL.
 - MULCH: CONIFEROUS BARK MULCH AT SHRUB ONLY LOCATIONS WHERE NO COARSE GRAVEL OR RIVER COBBLE IS SHOWN. SUBMIT SAMPLE FOR APPROVAL.
- SOIL MANAGEMENT REPORT: PRIOR TO DELIVERING TOPSOIL TO PROJECT SITE, PROVIDE ONE REPRESENTATIVE SOIL SAMPLE OF THE TOPSOIL IN ACCORDANCE WITH LABORATORY PROTOCOL. SOIL ANALYSIS TO INCLUDE:
 - SOIL TEXTURE
 - INFILTRATION RATE
 - PH
 - TOTAL SOLUBLE SALTS
 - SODIUM
 - PERCENT ORGANIC MATTER
 - RECOMMENDATIONS FOR TREE, SHRUB AND SOD PLANTING.
- ADD FERTILIZER AND AMENDMENTS TO THE TOPSOIL PER SOIL TEST REPORT RECOMMENDATIONS FOR PLANTING WORK.
- PREPLANTING PREPARATION:
 - PROCEED WITH PLANTING WORK ONLY AFTER IRRIGATION WORK IS COMPLETED, TESTED, AND APPROVED BY OWNER'S REP. PROTECT IRRIGATION SYSTEM FROM DAMAGE.
 - PLACE IMPORTED TOPSOIL IN AREAS SHOWN ON THE TOPSOIL PLAN TO THE DEPTH INDICATED. ROUGH GRADE PLANTING AREAS UNIFORMLY SMOOTH, DEVOID OF DEPRESSIONS, TO CONFORM TO THE GRADING PATTERNS ESTABLISHED BY CIVIL ENGINEERING DRAWINGS. ENSURE POSITIVE WATER REMOVAL AT 2% MINIMUM GRADIENT TO DRAINAGE ELEMENTS OR STRUCTURES PROVIDED BY OTHERS.
 - REMOVE ALL ROCKS GREATER THAN 1" DIAMETER AND ALL DEBRIS AND DELETERIOUS MATERIAL FROM PLANTING AREAS.
- PLANTS: ALL PLANTS OF THE SAME SPECIES/CULTIVAR/VARIETY SHALL HAVE MATCHING FORM, FLOWER COLOR, AND SIZE, IN HEALTHY AND THRIVING CONDITION, FREE FROM INJURIES, DISEASES, PESTS AND ROOT-BOUND OR GIRDLING ROOTS. REPLACE REJECTED PLANTS WITH MATCHING SPECIES, SIZE AND FORM.
- PLANTING:
 - IRRIGATE PLANTING AREAS TO BRING TOP 6" OF SOIL TO FIELD CAPACITY. ALLOW SOIL TO DRAIN. DO NOT WORK SOIL UNTIL IT RETURNS TO A MOIST FRIABLE CONDITION. TREE EXCAVATIONS MAY REQUIRE ADDITIONAL IRRIGATION. FLOOD TREE PITS AS REQUIRED TO MOISTEN SUBGRADE.
 - PLACE PLANTS IN THEIR CONTAINERS AT THE LOCATIONS PER PLANS FOR APPROVAL BY OWNER'S REP. MAKE MINOR ADJUSTMENTS AS REQUIRED BY FIELD CONDITIONS AND TO ALLOW OPTIMAL IRRIGATION COVERAGE.
 - PLANT QUANTITIES GIVEN ON PLANT LEGEND ARE FOR GENERAL GUIDANCE ONLY. PROVIDE THE SPECIFIED PLANT SPECIES IN THE QUANTITIES AT THE REQUIRED SPACING TO ACHIEVE THE DESIGN EFFECT/INTENT SHOWN ON THE PLANS.
 - FOR TREES IN TREE WELLS OR WITHIN 6 FEET OF PAVEMENT AND SLAB FOUNDATIONS, PRIOR TO TREE PLACEMENT, INSTALL ROOT BARRIER PANELS ALL AROUND THE PLANT PIT PER THE MANUFACTURERS INSTALLATION INSTRUCTIONS AND DETAIL 4, THIS SHEET. LOCATIONS OF ROOT BARRIERS NOT SHOWN ON PLANS.
 - PLANT TREES AND SHRUBS AS SHOWN ON DETAILS.
 - INSTALL 3" DEEP CONIFEROUS BARK MULCH TO COVER BARE SOIL AROUND TREES & SHRUBS. KEEP MULCH 3" AWAY FROM SHRUB TRUNKS, 6-8" AWAY FROM TREE TRUNKS. DO NOT INSTALL CONIFEROUS BARK MULCH WHERE MINERAL MULCHES (COARSE GRAVEL / RIVER COBBLE) OCCUR.
- 3-YEAR MAINTENANCE PERIOD: MAINTAIN PLANTINGS IN THRIVING CONDITION USING ACCEPTED INDUSTRY PRACTICES FOR WATERING, FERTILIZING, AND PRUNING. DO NOT MOW BIOFILTRATION SOD. MAINTAIN TREE STAKES IN PROPER POSITIONS. REMOVE TREE STAKES AT END OF MAINTENANCE PERIOD. REPLACE PLANTS THAT DIE OR FAIL TO ESTABLISH IN THRIVING CONDITION WITH SPECIES, SIZE AND FORM MATCHING OTHERS ON SITE. REPAIR OR REPLACE BROKEN IRRIGATION COMPONENTS.
- WARRANTY: WARRANT PLANT MATERIAL AND IRRIGATION SYSTEM FOR ONE YEAR FROM END OF MAINTENANCE PERIOD. REPLACE DEAD OR DYING PLANTS AND BROKEN IRRIGATION COMPONENTS WITHIN THIS PERIOD.

GREEN ROOF WEIGHT TABLE

MATERIAL NAME	POUNDS PER SQUARE FOOT
GREEN ROOF SYSTEM (SATURATED)	58
CRUSHED GRAVEL 2" DEEP	14
PLANT MATERIAL	1
TOTAL	73

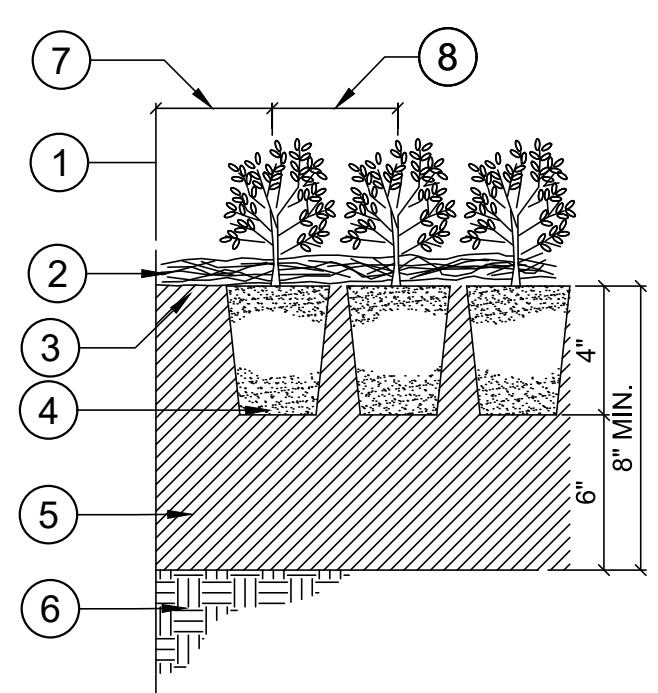
GREEN ROOF NOTE:

- THE ROOF DESIGN FROM THE NATURE CENTER PLANS ALLOWS FOR A WEIGHT OF 80 POUNDS PER SQUARE FOOT (PSF).
- WEIGHT TABLE IS A CALCULATION OF THE MOST PREVALENT CONDITION (THE PLANTED AREA), THE PATHWAY HAS 3" OF CRUSHED GRAVEL AND NO PLANTS, ITS TOTAL WEIGHT IS CALCULATED AT 72 POUNDS PER SQUARE FOOT.
- CONTRACTOR SHALL ENSURE THAT THE WEIGHT OF THE ROOFTOP DOESN'T EXCEED 80 PSF DURING THE INSTALLATION PROCESS. CONTRACTOR SHALL SUBMIT DESIRED INSTALLATION MATERIALS, METHODS, AND PERSONNEL FOR REVIEW BY OWNER REPRESENTATIVE PRIOR TO INSTALLATION. FINAL INSTALLED DESIGN SHALL NOT EXCEED 80PSF.
- IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT THE WATERPROOFING OF THE ROOF IS IN TACT AND NOT DAMAGED DURING THE INSTALLATION OF THE GREENROOF PLANTING AND IRRIGATION. CONTRACTOR SHALL CONFIRM THAT WATERPROOFING OF ROOF IS IN PLACE PRIOR TO INSTALLATION OF THE GREENROOF AND BRING ANY ISSUES OR CONCERNS TO THE IMMEDIATE ATTENTION OF THE OWNER REPRESENTATIVE. DESIGN OF THE GREENROOF IS LIMITED TO PLANTING AND IRRIGATION ONLY. THE WORK HEREIN THESE DOCUMENTS DO NOT PERTAIN TO THE WATERPROOFING, BUILDING WATER LINES, AND OTHER MATERIALS THAT ARE NOT SHOWN IN THESE DRAWINGS.



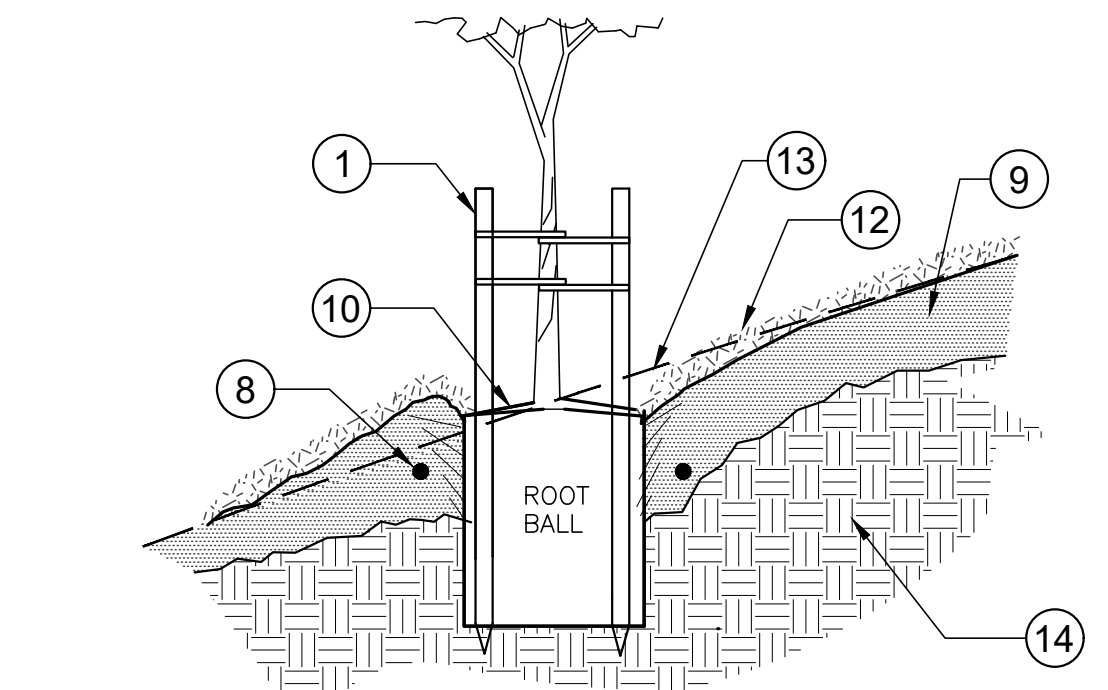
- LEGEND:**
- SET ROOTBALL CROWN 1" HIGHER THAN SURROUNDING FINISHED GRADE.
 - BARK MULCH - 3" DEPTH WHERE NOTED ON PLANS.
 - PLANT TABLETS 1/3 THE DEPTH OF ROOTBALL, SEE NOTES.
 - BACKFILL MIX, SEE NOTES.
 - UNDISTURBED EXISTING SOIL.
 - SET ROOTBALL CROWN 1-1/2" HIGHER THAN THE SURROUNDING FINISHED GRADE. SLOPE BACKFILL AWAY FROM ROOTBALL FOR POSITIVE DRAINAGE.
 - KEEP BARK MULCH 6-8" FROM BASE OF SHRUB.
 - ORIGINAL SLOPE SHOULD PASS THROUGH THE POINT WHERE THE TRUNK MEETS SUBSTRATE/SOIL.
 - SLOPE FINISHED GRADE AT BACKFILL AWAY FROM ROOTBALL.

2 SHRUB PLANTING
1" = 1'-0" P-RA-09



- LEGEND:**
- EDGE OF PLANTING
 - 3" DEPTH OF BARK MULCH
 - FINISH GRADE
 - PLANTS FROM POTS OF LINERS AS REQUIRED
 - BACKFILL MIX, SEE NOTES & SOILS REPORT
 - EXISTING SOIL
 - 2/3 PLAN SPACING
 - SPACING PER PLANS

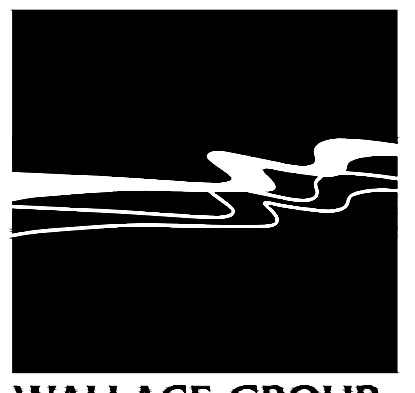
NOTES:
A. PREPARE FINISH GRADE OF BEDS TO SURFACE DRAIN AWAY FROM WALLS / STRUCTURES



- LEGEND:**
- 3"- 2" DIA. LODGEPOLE PINE STAKE OUTSIDE ROOTBALL. CUT STAKE 2" BELOW LOWEST BRANCH AND INSTALL IN LINE WITH PREVAILING WINDS.
 - SETS OF REINFORCED RUBBER TIRE TREE STRAPS, TIED IN A FIGURE 8 STYLE. NAILS FLUSH TO STAKE SURFACE AND SECURED AT LOWEST POINT NECESSARY TO HOLD TUBE UPRIGHT.
 - REMOVE NURSERY STAKES
 - 1X3 CROSSTIE, AVOID RUBBING INJURY TO TRUNK
 - BACKFILL MIX, SEE NOTES
 - AVOID DAMAGE TO THE ROOT BALL WITH THE SUPPORT STAKES
 - FINISHED GRADE
 - PLANT TABLETS PLACED 1" FROM ROOTBALL 1/3 DEPTH OF PLANT PIT - SEE NOTES.
 - BACKFILL MIX, SEE NOTES.
 - SET ROOTBALL CROWN 1-1/2" HIGHER THAN THE SURROUNDING FINISHED GRADE. SLOPE BACKFILL AWAY FROM ROOTBALL FOR POSITIVE DRAINAGE
 - KEEP BARK MULCH 6"-8" FROM BASE OF TREE
 - BARK MULCH - 3" DEPTH WHERE NOTED ON PLANS.
 - ORIGINAL SLOPE SHOULD PASS THROUGH THE POINT WHERE THE TRUNK MEETS SUBSTRATE/SOIL.
 - UNDISTURBED EXISTING SOIL.

1 TREE PLANTING
1" = 1'-0" P-RA-08

3 GROUND COVER BED PLANTING
SCALE = NTS 329313.13-01



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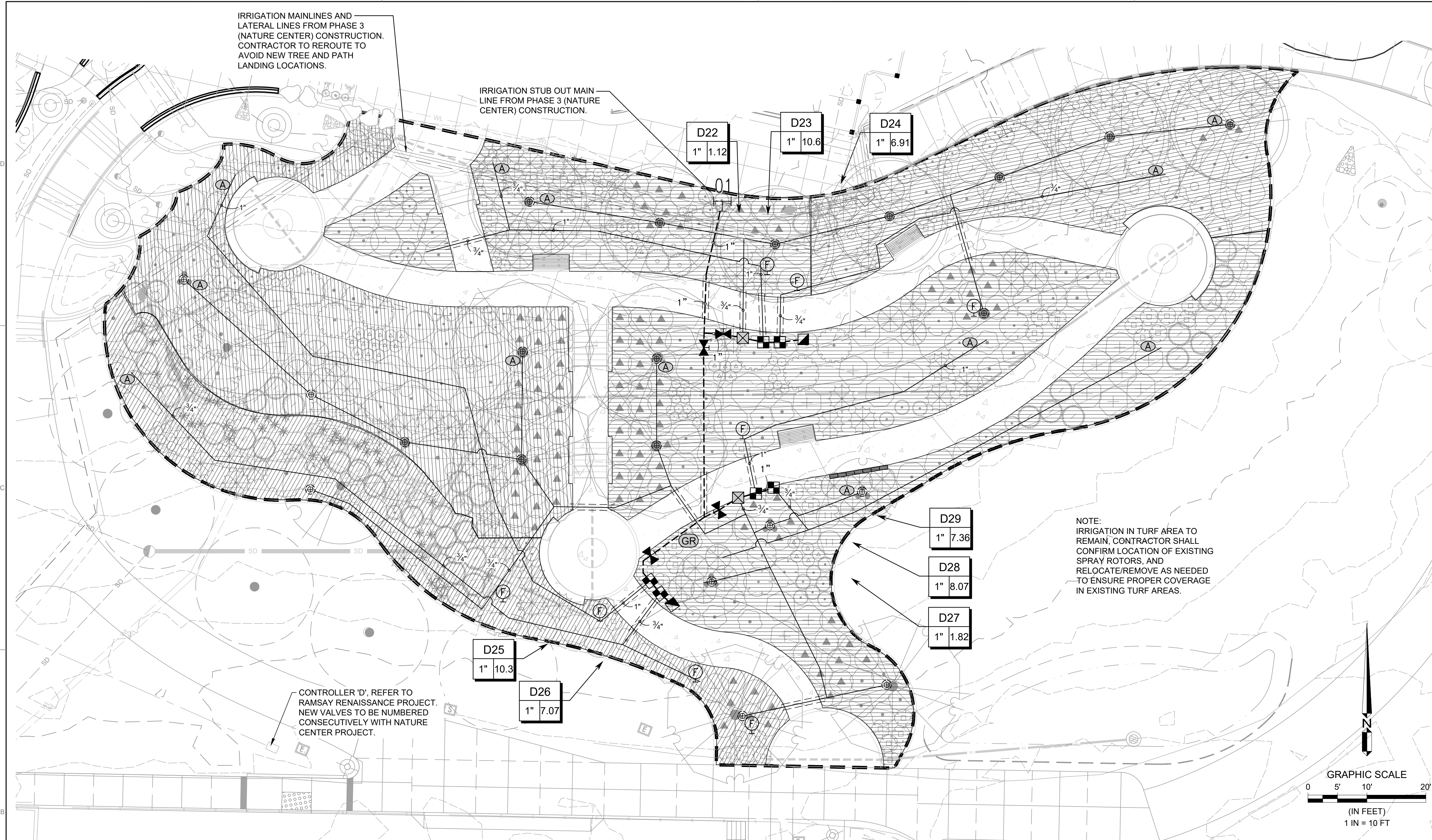
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CITY OF WATSONVILLE
RAMSAY PARK GREEN INFRASTRUCTURE
PLANTING DETAILS & NOTES

CITY OF WATSONVILLE
RAMSAY PARK GREEN INFRASTRUCTURE
PLANTING DETAILS & NOTES

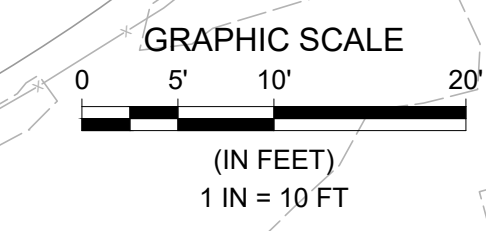
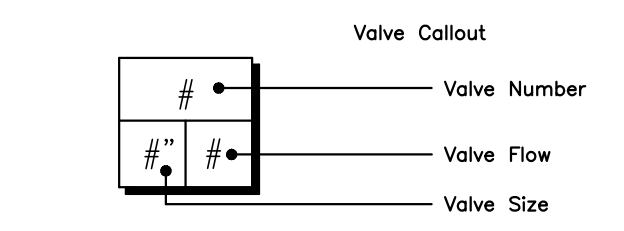
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IRRIGATION SCHEDULE SLOPE & WALKWAY PLANTING

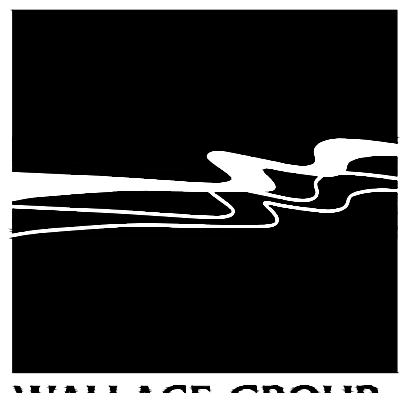
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
■	NETAFIM LVCZS8010075-HF PRE-ASSEMBLED CONTROL ZONE KIT, WITH 1" SERIES 80 CONTROL VALVE, 3/4" DISC FILTER, AND HIGH FLOW PRESSURE REGULATOR 4.5GPM TO 17.6GPM.	6
⊗	NETAFIM LVCZS8010075-LF PRE-ASSEMBLED CONTROL ZONE KIT, WITH 1IN. SERIES 80 CONTROL VALVE, 3/4IN. DISC FILTER, AND LOW FLOW PRESSURE REGULATOR 0.25GPM-4.4GPM	2
F	TORO T-FCH-H-FIPT FLUSH VALVE, PLUMBED TO FLUSH MANIFOLD AT LOW POINT.	8
Ⓐ	TORO T-YD-500-34 1/2IN. AIR VENT- MIPT AIR RELEASE AND VACUUM RELIEF VALVE	12
Ⓢ	NETAFIM TLCV-06-18 DRIP RING	21
▨	AREA TO RECEIVE DRIPLINE NETAFIM TLCV-06-18 TECHLINE PRESSURE COMPENSATING LANDSCAPE DRIPLINE WITH CHECK VALVE. 0.6 GPH EMITTERS AT 18" O.C. DRIPLINE LATERALS SPACED AT 18" APART, WITH EMITTERS OFFSET FOR TRIANGULAR PATTERN. 17MM.	6,646 L.F.
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
■	HUNTER HQ-33DLRC QUICK COUPLER VALVE. YELLOW LOCKING RUBBER COVER, RED BRASS AND STAINLESS STEEL, WITH 3/4IN. NPT INLET, 2-PIECE BODY.	2
⊗	NIBCO T-113 CLASS 125 BRONZE GATE SHUT OFF VALVE WITH WHEEL HANDLE. SAME SIZE AS MAINLINE PIPE DIAMETER AT VALVE LOCATION. SIZE RANGE - 1/4IN. - 3IN.	4
Ⓒ	LIGHTNING ARRESTOR SLGDT LIGHTNING ARRESTOR FOR TWO-WIRE CONTROLLER SYSTEM. ATTACHED TO GROUND ROD VIA GREEN WIRE.	1
XX	POINT OF CONNECTION 3"	1
---	IRRIGATION LATERAL LINE: PVC SCHEDULE 40	1,007 L.F.
---	IRRIGATION MAINLINE: PVC SCHEDULE 40	107.1 L.F.
---	PIPE SLEEVE: PVC CLASS 315 SDR 13.5 TYPICAL PIPE SLEEVE FOR IRRIGATION PIPE. PIPE SLEEVE SIZE SHALL ALLOW FOR IRRIGATION PIPING AND THEIR RELATED COUPLINGS TO EASILY SLIDE THROUGH SLEEVING MATERIAL. EXTEND SLEEVES 12 INCHES BEYOND EDGES OF PAVING OR CONSTRUCTION.	89.9 L.F.



IRRIGATION NOTES:

- THE SYSTEM DESIGN SHOWN IS BASED UPON A MINIMUM PRESSURE OF 55 PSI AT A MAXIMUM DISCHARGE OF 11 GPM. VERIFY PRESSURE AND FLOW ON SITE PRIOR TO CONSTRUCTION WORK AND REPORT ANY DISCREPANCIES TO THE OWNER'S REPRESENTATIVE.
- ALL WORK SHALL CONFORM TO LOCAL AND STATE CODES AND ORDINANCES AND THE PLANS, SPECIFICATIONS, DETAILS AND NOTES FOR THIS PROJECT. READ THOROUGHLY AND BECOME FAMILIAR WITH THE SPECIFICATIONS AND INSTALLATION DETAILS FOR THIS AND RELATED WORK PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS, INCLUDING, BUT NOT LIMITED TO, UNDERGROUND UTILITIES AND STRUCTURES. COORDINATE ALL WORK WITH CIVIL, MECHANICAL, AND ELECTRICAL WORK AND TRADES TO MINIMIZE CONFLICTS. THE WORK INCLUDES THE RESPONSIBILITY FOR THE INSTALLATION OF IRRIGATION SLEEVING. CONTRACTOR SHALL COORDINATE SLEEVE INSTALLATION AND SEQUENCE HIS WORK WITH ALL WORK AND DISCIPLINES AS REQUIRED.
- LAYOUT SHOWN IS DIAGRAMMATIC. IRRIGATION PIPING AND COMPONENTS MAY BE SHOWN OUTSIDE PLANTING AREAS FOR CLARITY. INSTALL IRRIGATION PIPING AND WIRING IN LANDSCAPED AREAS WHENEVER POSSIBLE. INSTALL IRRIGATION VALVES IN GROUND COVER OR SHRUB AREAS WHENEVER POSSIBLE. LOCATE IRRIGATION CONTROL AND QUICK COUPLING VALVES ADJACENT TO HARDSCAPE AREAS FOR EASY ACCESS. AVOID CONFLICTS BETWEEN THE IRRIGATION SYSTEM, PLANTING MATERIAL, AND ARCHITECTURAL FEATURES.
- DO NOT PROCEED WITH THE INSTALLATION OF THE SYSTEM WHEN IT IS EVIDENT THAT FIELD CONDITIONS OR DIFFERENCES EXIST THAT COULD NOT HAVE BEEN CONSIDERED IN ENGINEERING OR IF DISCREPANCIES IN CONSTRUCTION DRAWINGS, DETAILS, NOTES AND SPECIFICATIONS ARE DISCOVERED. BRING ALL SUCH DIFFERING FIELD CONDITIONS AND DISCREPANCIES TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE.
- IRRIGATION SYSTEM SHALL CONNECT TO THE EXISTING IRRIGATION SYSTEM THAT IS IN PLACE FROM PHASE 3 (NATURE CENTER) CONSTRUCTION. CONTRACTOR SHALL CONFIRM ALL EQUIPMENT IS IN PLACE AND OPERATIONAL PRIOR TO FINAL SYSTEM OPERATION.
- SEE LEGEND FOR PIPING MATERIAL. SEE DRAWINGS AND LEGEND FOR PIPE SIZES. SIZE CALLOUTS ON DRAWINGS INDICATE NOMINAL PIPE SIZE. UNLABELED SECTIONS ARE THE NOMINAL SIZE OF THE PRECEDING CALLOUT. SUBSEQUENT CALLOUTS INDICATE CHANGE IN PIPE SIZE.
- UNLESS OTHERWISE NOTED, TRENCHING DEPTHS FOR IRRIGATION SHALL BE 18" FOR MAINLINES AND 12" FOR LATERALS. DEPTH SHALL BE MEASURED FROM THE TOP OF PIPE TO FINISHED SOIL LEVEL.
- INSTALL CONCRETE THRUST BLOCKS ON ALL MAINLINES THREE (3) INCHES AND LARGER IN DIAMETER IN ACCORDANCE WITH LOCAL CODES AND STANDARDS OR ASAE STANDARD S376.1.
- ALL MAINLINES, LATERALS, AND CONTROL WIRES UNDER PAVEMENT SHALL BE INSTALLED IN SCHEDULE 40 PVC SLEEVES. SLEEVES SHALL EXTEND 12" BEYOND EDGE OF PAVEMENT AND SHALL HAVE ENDS CLEARLY MARKED ABOVE GRADE DURING CONSTRUCTION.
- PRIOR TO BACKFILLING, FLUSH AND TEST MAINS AND LATERALS. FLUSH MAINS BEFORE INSTALLING VALVES. FLUSH LATERALS BEFORE INSTALLING DRIP LINE. SUBJECT MAINS TO HYDROSTATIC PRESSURE OF 1.5 TIMES THE ANTICIPATED OPERATING PRESSURE (MIN. 100 PSI) FOR TWO HOURS. SUBJECT LATERALS TO HYDROSTATIC PRESSURE EQUAL TO ANTICIPATED OPERATING PRESSURE. ALL FLUSHING SHALL BE DONE IN THE PRESENCE OF THE ARCHITECT. BACKFILL WITH CLEAN MATERIAL FROM EXCAVATION. REMOVE ROCKS AND DEBRIS LARGER THAN 1" DIAMETER.
- INSTALL QUICK COUPLING VALVE ASSEMBLIES AS SHOWN OR APPROXIMATELY 50 FEET ON CENTER FOR IRRIGATION AND HARDSCAPE WASHDOWN WATER.
- THE IRRIGATION CONTROLLER PROVIDED PER THE NATURE CENTER PACKAGE.
- INSTALL 14-2 MAXI-CABLE CONTROL WIRE FROM THE CONTROLLER TO EACH REMOTE CONTROL VALVE. VALVE DECODER. CONTROL WIRE TO BE INSTALLED IN 1 1/2" PVC CLASS 315 SDR 13.5 SLEEVING. COIL THREE(3) FEET OF WIRE IN EACH VALVE OR SPLICE BOX. USE 3M DBY SPLICE KITS (OR APPROVED EQUAL) FOR ALL WIRE CONNECTIONS AND SPLICES. ALL WIRE SPLICES SHALL BE IN A 10" ROUND SPLICE BOX.

- INSTALL GROUNDING RODS EVERY 1000 FEET ALONG WIRE PATH AND AT THE END OF THE WIRE PATH. SEE PLANS FOR LOCATIONS. INSTALL GROUNDING ROD AND PLATES ASSEMBLY ADJACENT TO (6 FT AWAY) FROM IRRIGATION CONTROLLER.
- CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETE AND UNIFORM COVERAGE OF ALL PLANTED AREAS. ADJUST REMOTE CONTROL VALVE PRESSURE REGULATOR AND FLOW CONTROL TO BALANCE EACH LATERAL SYSTEM AND TO ENSURE PROPER VALVE CLOSURE TIME.
- CONTRACTOR SHALL ADJUST DRIP EMITTER LOCATION(S) AND ADD EMITTERS AS REQUIRED TO ACCOMMODATE PLANT NEEDS.
- INSTALL PLASTIC CHECK VALVES FOR EVERY 6-FT OF ELEVATION DROP IN DRIP VALVE ZONE.



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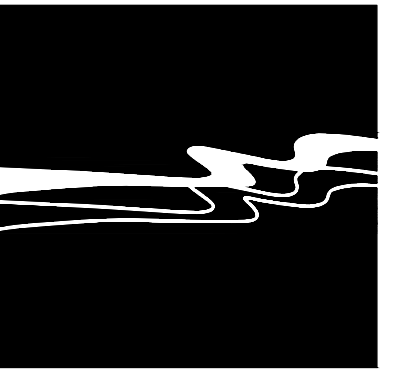
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RAMSAY PARK GREEN INFRASTRUCTURE
SLOPE IRRIGATION PLAN & NOTES

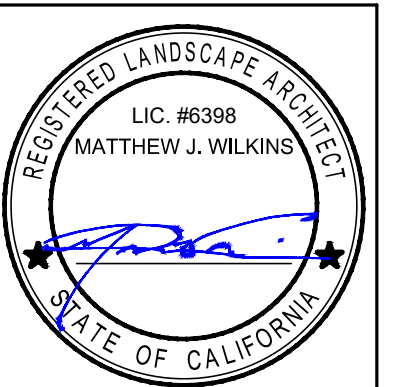
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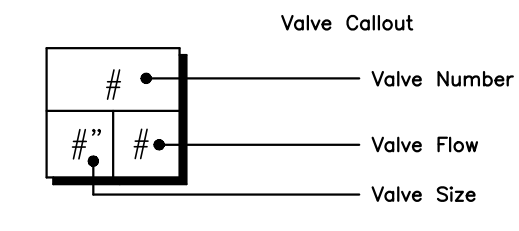


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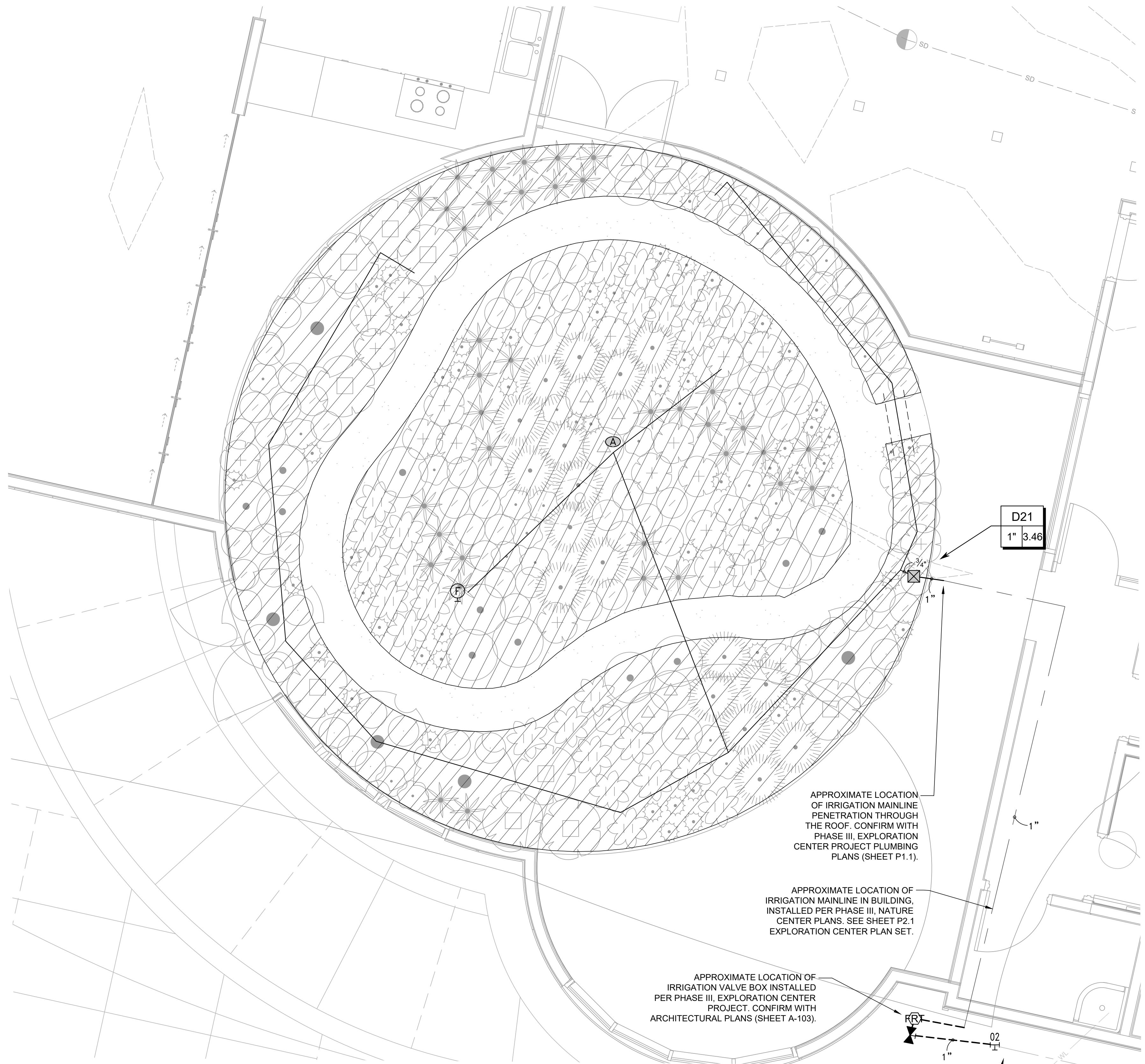
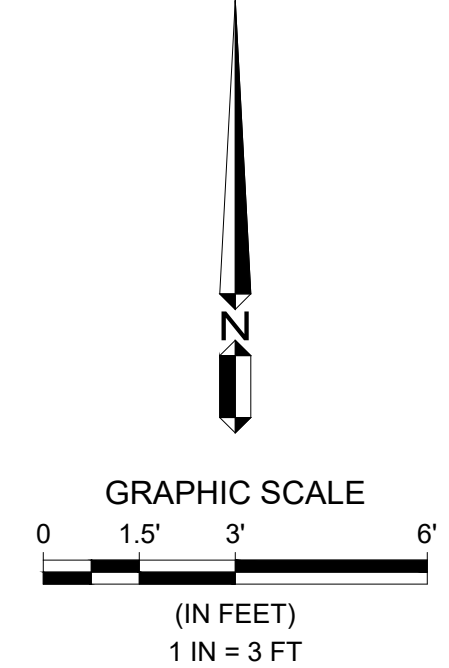
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IRRIGATION SCHEDULE GREEN ROOF

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
☒	NETAFIM LVCZS8010075-LF PRE-ASSEMBLED CONTROL ZONE KIT, WITH 1IN. SERIES 80 CONTROL VALVE, 3/4IN. DISC FILTER, AND LOW FLOW PRESSURE REGULATOR 0.25GPM-4.4GPM	1
Ⓣ	TORO T-FCH-H-FIPT FLUSH VALVE, PLUMBED TO FLUSH MANIFOLD AT LOW POINT.	1
Ⓐ	TORO T-YD-500-34 1/2IN. AIR VENT- MIPT AIR RELEASE AND VACUUM RELIEF VALVE	1
[Hatched Box]	AREA TO RECEIVE DRIPLINE NETAFIM TLCV-06-18 TECHLINE PRESSURE COMPENSATING LANDSCAPE DRIPLINE WITH CHECK VALVE. 0.6 GPH EMITTERS AT 18" O.C. DRIPLINE LATERALS SPACED AT 18" APART, WITH EMITTERS OFFSET FOR TRIANGULAR PATTERN. 17MM.	519.4 L.F.
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
⌘	NIBCO T-113 CLASS 125 BRONZE GATE SHUT OFF VALVE WITH WHEEL HANDLE. SAME SIZE AS MAINLINE PIPE DIAMETER AT VALVE LOCATION. SIZE RANGE - 1/4IN. - 3IN.	1
Ⓡ	EZ-FLO FERTILIZING SYSTEMS EZ001-CX ONE SYSTEM FEEDS ALL ZONES, DRIP OR SPRINKLER. USED FOR SMALLER COMMERCIAL LANDSCAPES, RESIDENTIAL, HOAFT S, MODEL HOMES, AND GROWER APPLICATIONS. INSTALL DIRECTLY IN THE IRRIGATION SYSTEM MAIN LINE AFTER THE BACK FLOW PREVENTER. TANK CAPACITY: 1.5 G.	1
XX	POINT OF CONNECTION 3"	1
---	IRRIGATION LATERAL LINE: PVC SCHEDULE 40	116.2 L.F.
---	IRRIGATION MAINLINE: PVC SCHEDULE 40	8.1 L.F.
---	IRRIGATION MAINLINE: PVC SCHEDULE 40 1" IRRIGATION LINE PROVIDED THROUGH BUILDING AS PART OF PHASE III NATURE CENTER PROJECT.	27.3 L.F.
---	IRRIGATION MAINLINE: SCHEDULE 40 STD. STEEL PIPE	9.8 L.F.
---	PIPE SLEEVE: PVC CLASS 315 SDR 13.5 TYPICAL PIPE SLEEVE FOR IRRIGATION PIPE. PIPE SLEEVE SIZE SHALL ALLOW FOR IRRIGATION PIPING AND THEIR RELATED COUPLINGS TO EASILY SLIDE THROUGH SLEEVING MATERIAL. EXTEND SLEEVES 12 INCHES BEYOND EDGES OF PAVING OR CONSTRUCTION.	3.1 L.F.

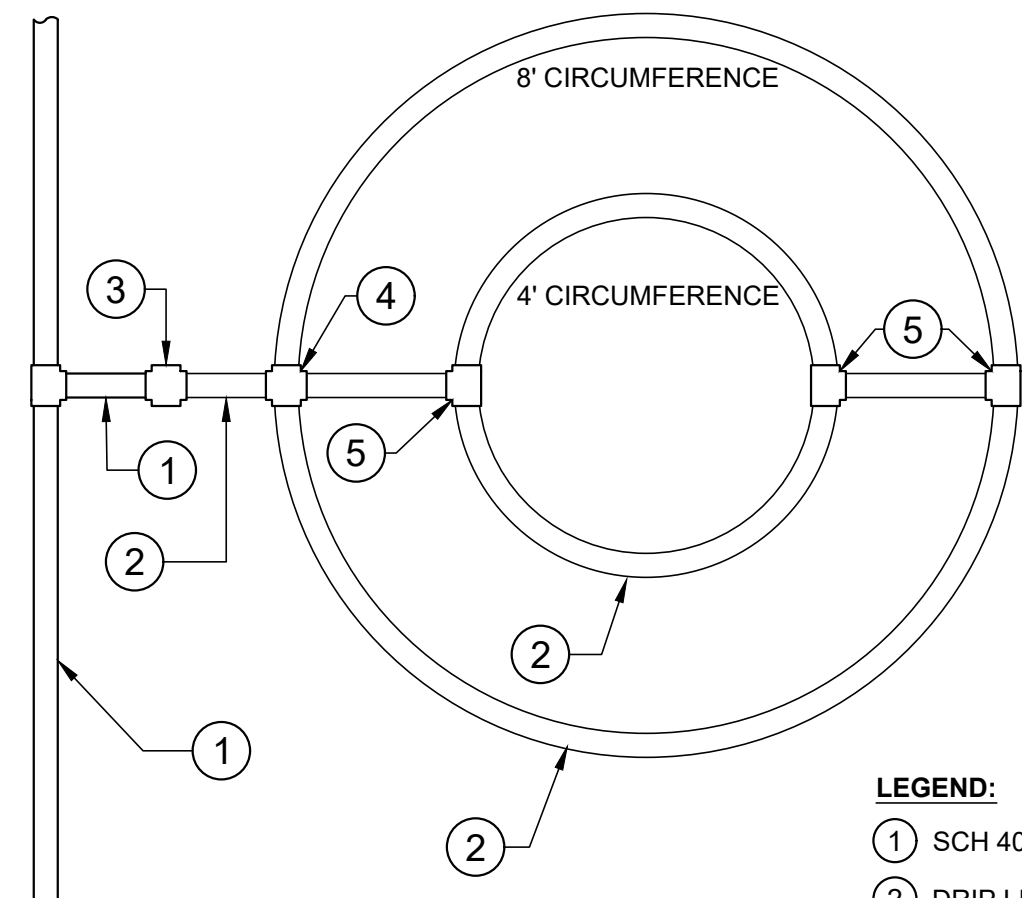


NOTE:
DRIP IRRIGATION SYSTEM PER DRIP SYSTEM DETAILS. WATERPROOF SYSTEM AND DRAINAGE SYSTEMS ARE PROVIDED UNDER ARCHITECTURAL SCOPE.



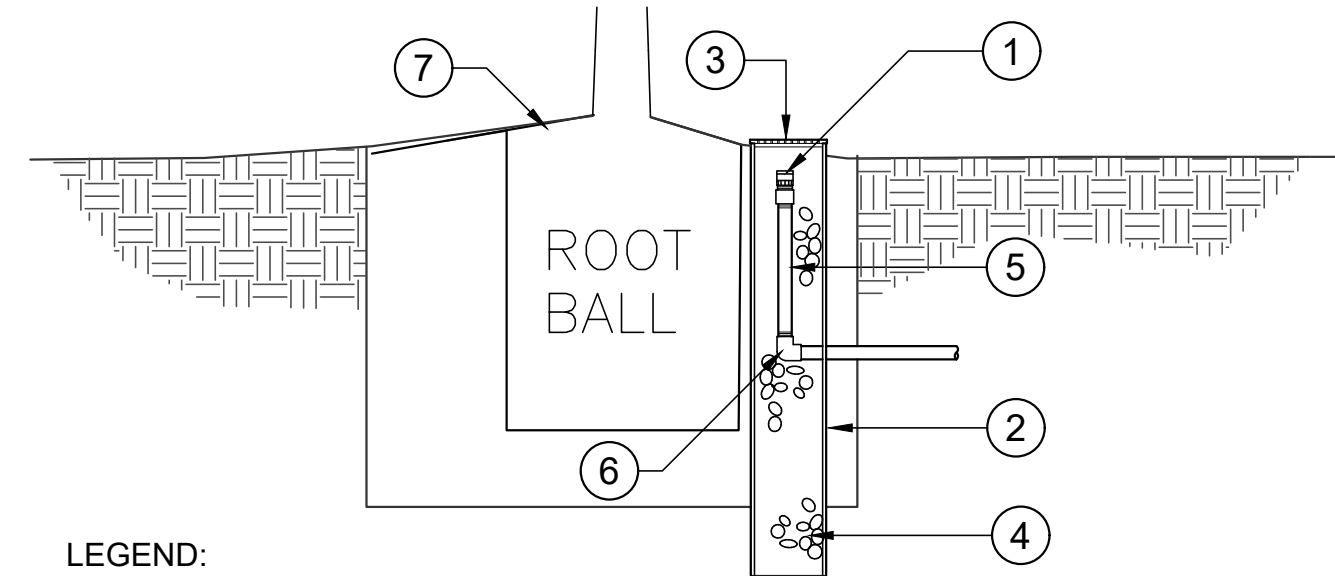
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RAMSAY PARK GREEN INFRASTRUCTURE
GREEN ROOF IRRIGATION PLAN

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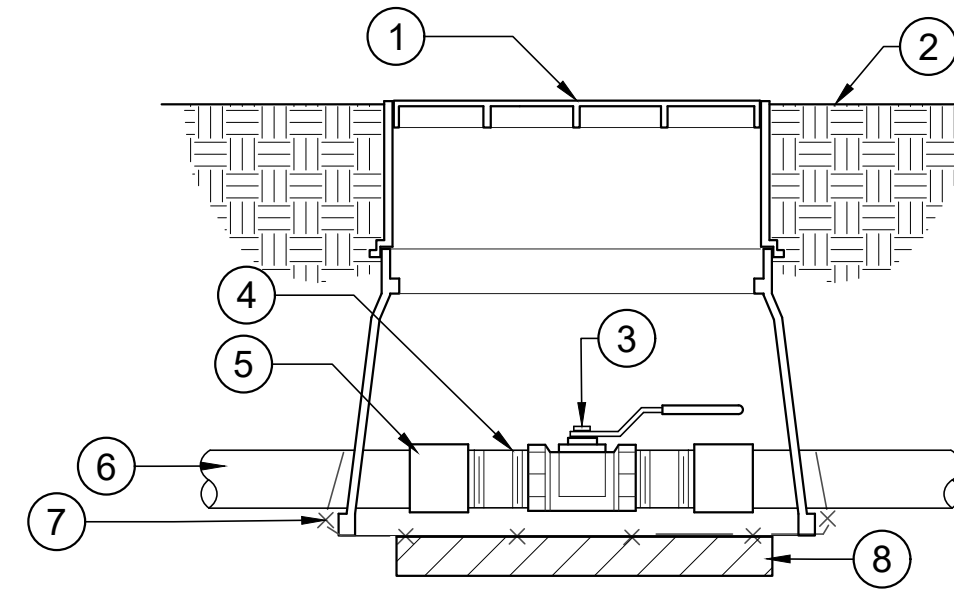
- LEGEND:**
- ① SCH 40 PVC LATERAL LINE
 - ② DRIP LINE
 - ③ INSERT ADAPTER
 - ④ INSERT CROSS
 - ⑤ INSERT TEE

1 TREE RING LAYOUT
1 1/2" = 1'-0" 328413.24-01



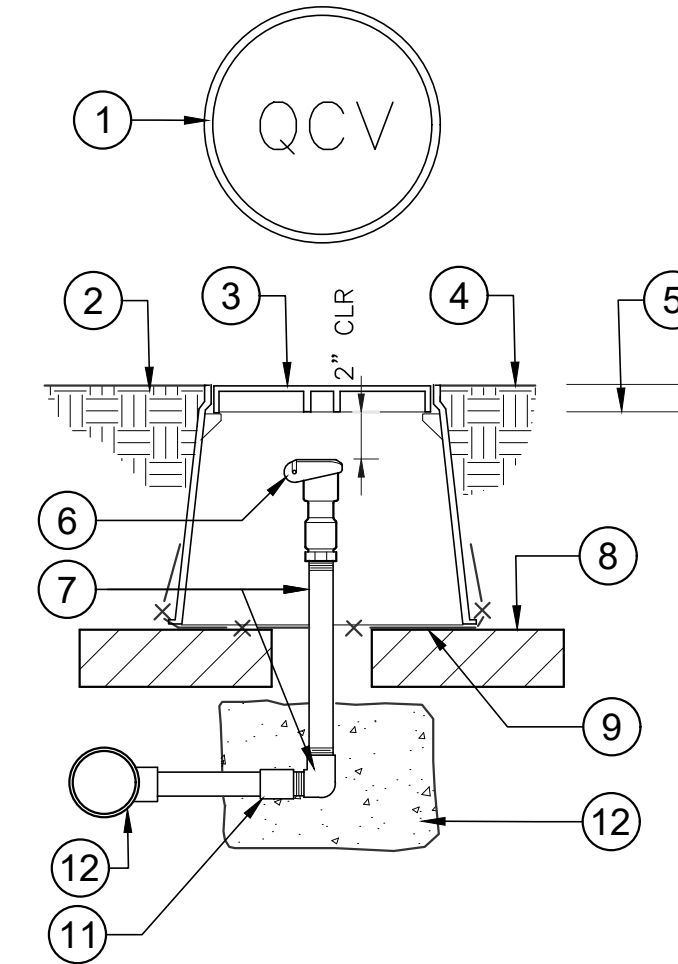
- LEGEND:**
- ① BUBBLER HEAD, PLACE INSIDE PERFORATED PIPE UNDER GRATE CAP
 - ② ROOT WATERING TUBE
 - ③ LOCKING GRATE CAP. TOP OF CAP SHALL BE A MINIMUM OF 1/2 INCH ABOVE FINISHED GRADE
 - ④ FILL TUBE WITH ROUNDED DRAIN ROCK TO JUST BELOW BUBBLER CONNECTION
 - ⑤ THREADED SCH 80 RISER, LENGTH AS REQUIRED
 - ⑥ THREAD/SLIP ELL
 - ⑦ TREE PLANTING AS INDICATED ON PLANTING DETAILS

2 ROOT WATERING SYSTEM
3/16" = 1'-0" 32 8403.53-17



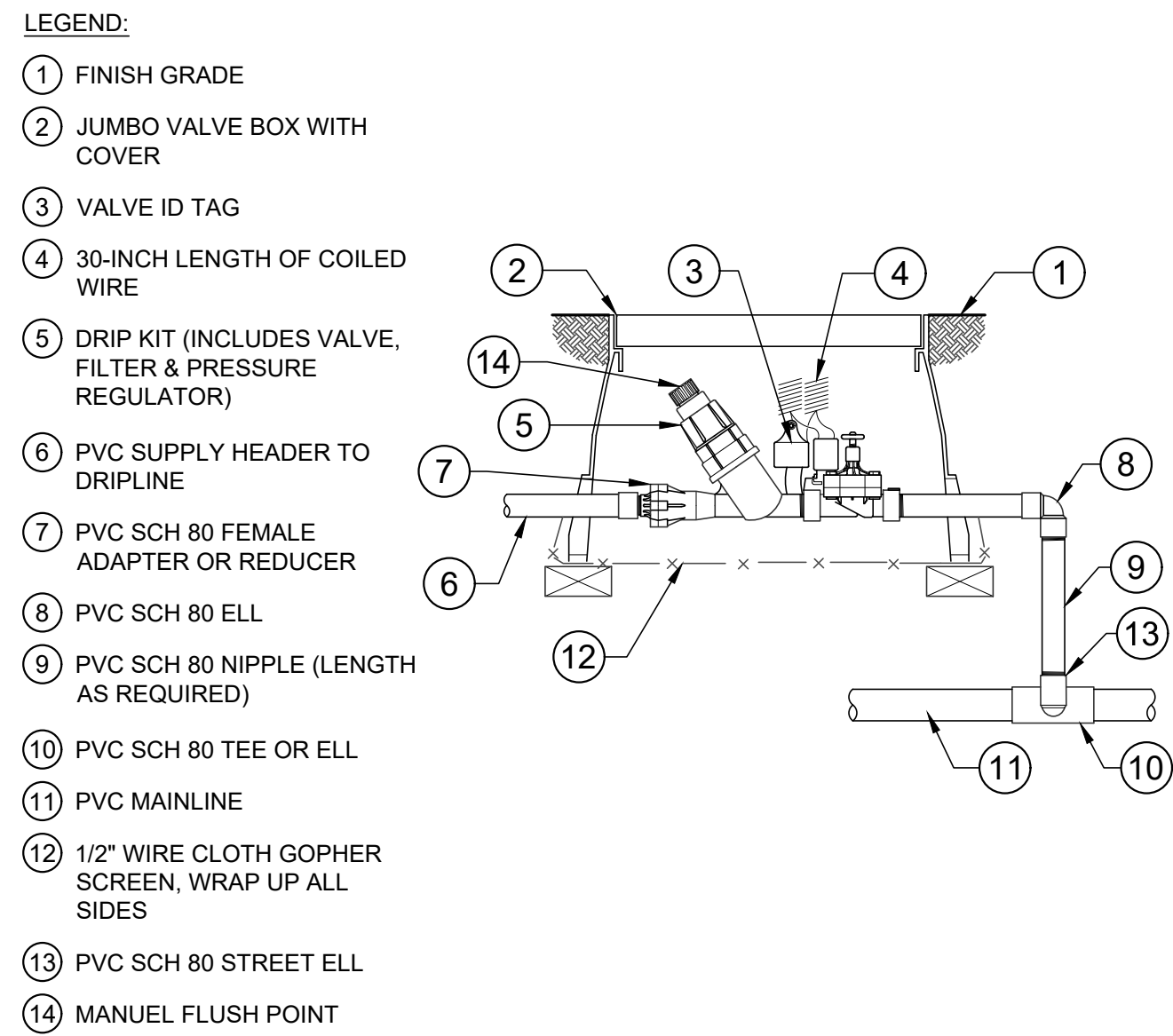
- LEGEND:**
- ① 10"X15" RECTANGULAR BOX WITH 6" EXTENSION
 - ② SET BOX FLUSH TO GRADE
 - ③ ISOLATION BALL VALVE AS SPECIFIED, SAME SIZE AS MAIN LINE
 - ④ SCHEDULE 80 THREADED NIPPLE AS REQUIRED
 - ⑤ ADAPTER
 - ⑥ PVC MAIN LINE
 - ⑦ 1/2" WIRE CLOTH GOPHER SCREEN, WRAP UP SIDES
 - ⑧ TWO 6X2X16 CONCRETE BLOCK CAPS, ONE ON EACH SIDE OF BOX

3 BRASS BALL ISOLATION VALVE
1 1/2" = 1'-0" 32 8406.33-02



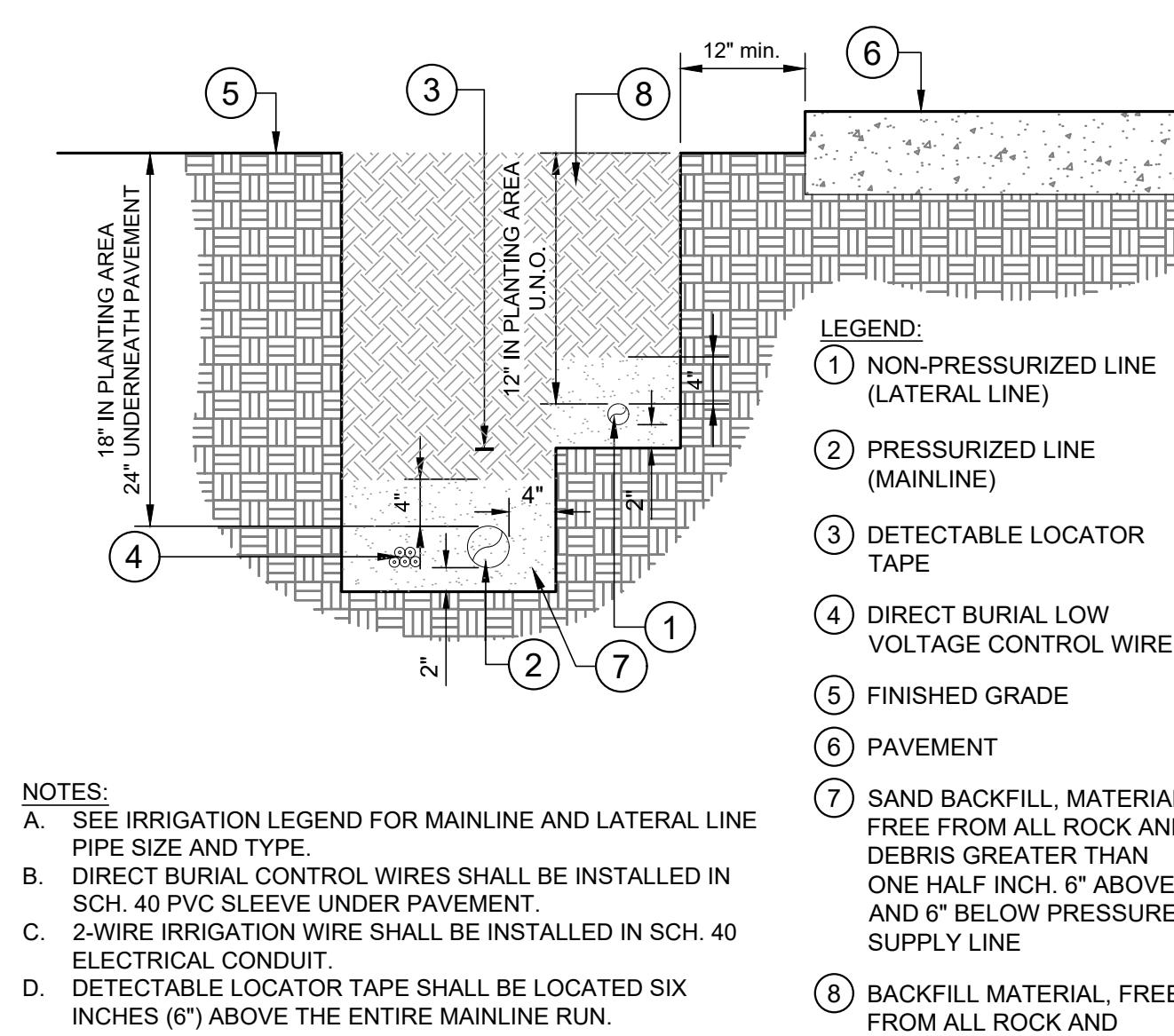
- LEGEND:**
- ① 10" DIAMETER VALVE BOX. HEAT BRAND "QCV" ON LID WITH 2" HIGH LETTERS
 - ② FINISHED GRADE
 - ③ 10" DIAMETER VALVE BOX
 - ④ FLUSH TO GRADE AT TURF
 - ⑤ 1" ABOVE GRADE AT SHRUBS
 - ⑥ QUICK COUPLER AS SPECIFIED
 - ⑦ GALVANIZED RISER AND ELBOW, QC INLET SIZE
 - ⑧ FOUR COMMON BRICKS AS SUPPORT UNDER BOX
 - ⑨ 1/2" WIRE CLOTH GOPHER SCREEN, WRAP UP SIDES
 - ⑩ MAIN LINE
 - ⑪ PVC MALE ADAPTER
 - ⑫ 60 LB CONCRETE TORQUE BLOCK

4 QUICK COUPLING VALVE IN BOX ASSEMBLY
1 1/2" = 1'-0" 32 8406.43-03



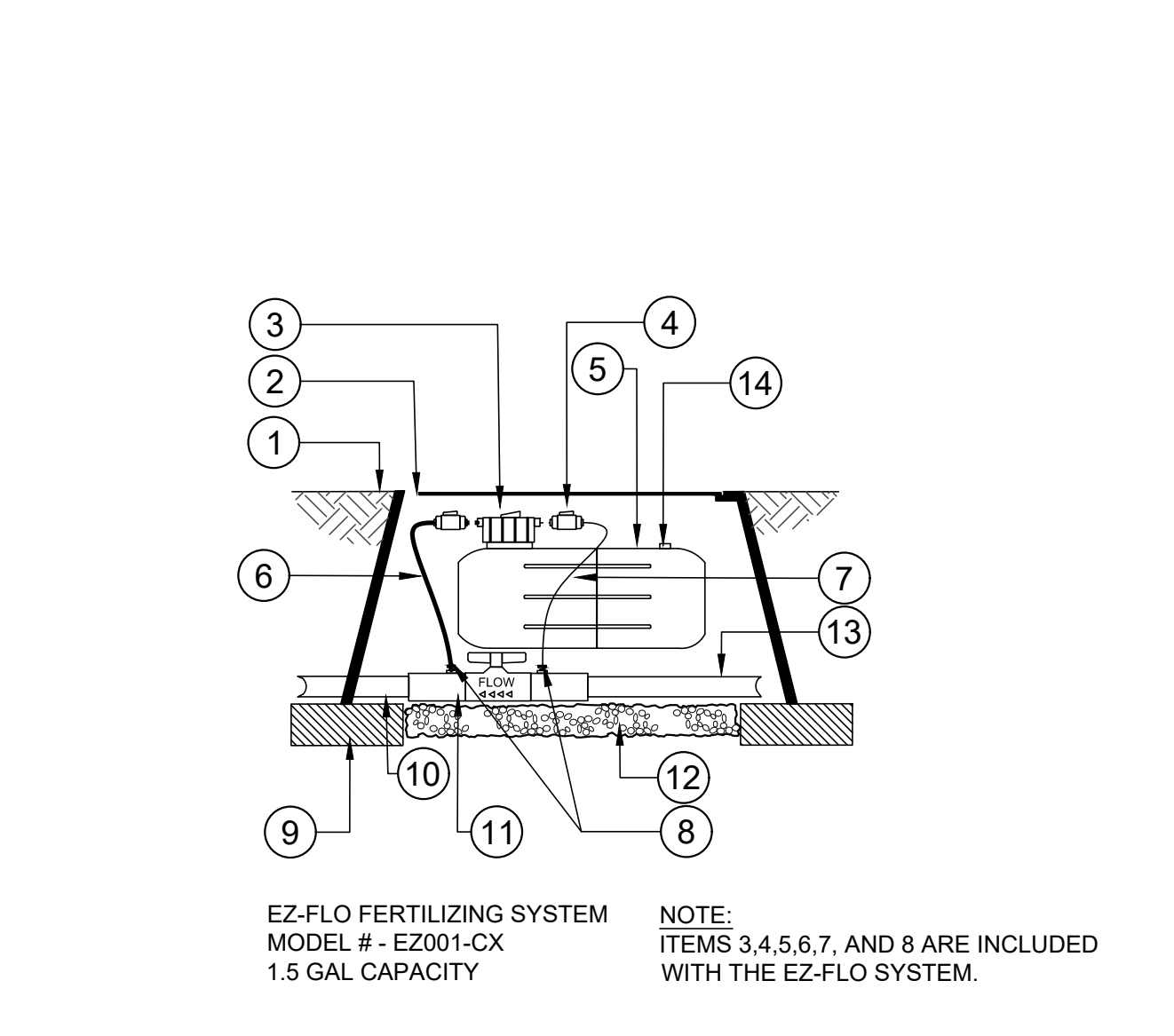
- LEGEND:**
- ① FINISH GRADE
 - ② JUMBO VALVE BOX WITH COVER
 - ③ VALVE ID TAG
 - ④ 30-INCH LENGTH OF COILED WIRE
 - ⑤ DRIP KIT (INCLUDES VALVE, FILTER & PRESSURE REGULATOR)
 - ⑥ PVC SUPPLY HEADER TO DRIFLINE
 - ⑦ PVC SCH 80 FEMALE ADAPTER OR REDUCER
 - ⑧ PVC SCH 80 ELL
 - ⑨ PVC SCH 80 NIPPLE (LENGTH AS REQUIRED)
 - ⑩ PVC SCH 80 TEE OR ELL
 - ⑪ PVC MAINLINE
 - ⑫ 1/2" WIRE CLOTH GOPHER SCREEN, WRAP UP ALL SIDES
 - ⑬ PVC SCH 80 STREET ELL
 - ⑭ MANUEL FLUSH POINT

5 DRIP ZONE KIT IN VALVE BOX
1/2" = 1'-0" 328413.46-07



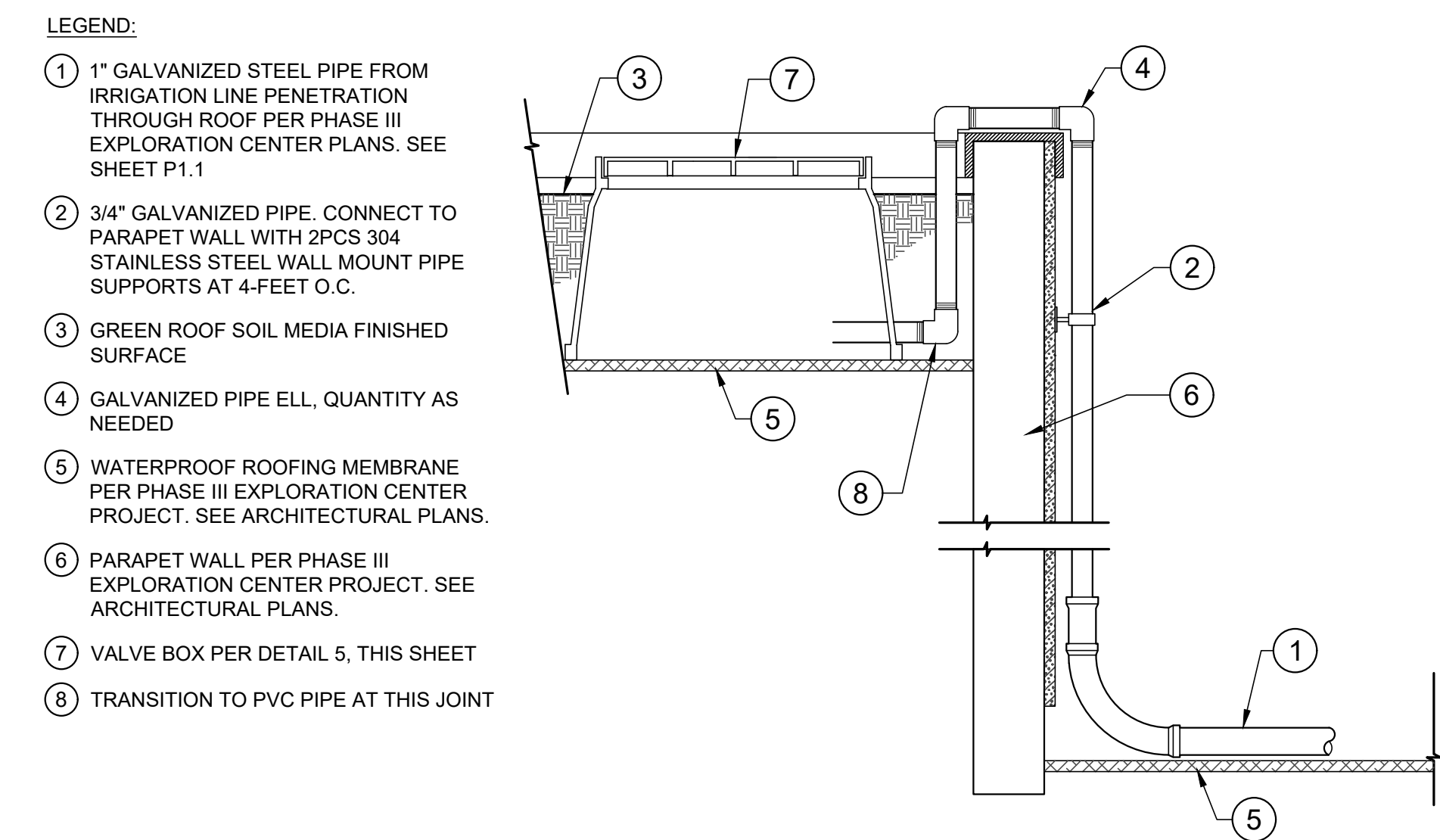
- LEGEND:**
- ① NON-PRESSURIZED LINE (LATERAL LINE)
 - ② PRESSURIZED LINE (MAINLINE)
 - ③ DETECTABLE LOCATOR TAPE
 - ④ DIRECT BURIAL LOW VOLTAGE CONTROL WIRES
 - ⑤ FINISHED GRADE
 - ⑥ PAVEMENT
 - ⑦ SAND BACKFILL, MATERIAL FREE FROM ALL ROCK AND DEBRIS GREATER THAN ONE HALF INCH. 6" ABOVE AND 6" BELOW PRESSURE SUPPLY LINE
 - ⑧ BACKFILL MATERIAL, FREE FROM ALL ROCK AND DEBRIS LARGER THAN 1-INCH
- NOTES:**
- A. SEE IRRIGATION LEGEND FOR MAINLINE AND LATERAL LINE PIPE SIZE AND TYPE.
 - B. DIRECT BURIAL CONTROL WIRES SHALL BE INSTALLED IN SCH. 40 PVC SLEEVE UNDER PAVEMENT.
 - C. 2-WIRE IRRIGATION WIRE SHALL BE INSTALLED IN SCH. 40 ELECTRICAL CONDUIT.
 - D. DETECTABLE LOCATOR TAPE SHALL BE LOCATED SIX INCHES (6") ABOVE THE ENTIRE MAINLINE RUN.

6 IRRIGATION TRENCHING
1 1/2" = 1'-0" FX-IR-FX-AUXEQ-08



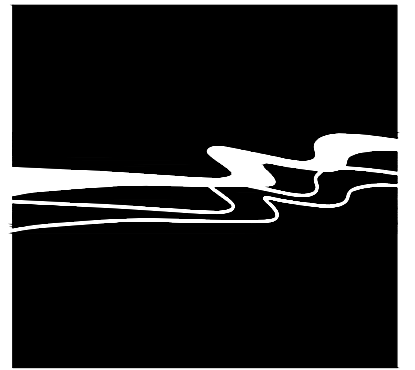
- LEGEND:**
- ① FINISHED GRADE
 - ② VALVE BOX & COVER - PROVIDED WITH EXPLORATION CENTER, PHASE III PROJECT
 - ③ PROPORTIONING CAP W/FEED ADJUSTMENT KNOB
 - ④ EZ-FLO SHUT OFF VALVES W/ DISCONNECT WASHERS
 - ⑤ EZ-FLO IN-LINE FERTIGATION SYSTEM TANK
 - ⑥ FERTILIZER OUT- CONNECT CLEAR TUBE TO GREEN CONNECTIONS ON PROPORTIONING CAP & COUPLING
 - ⑦ WATER IN - CONNECT BLACK TUBE TO BLUE CONNECTIONS ON PROPORTIONING CAP & COUPLING
 - ⑧ 1/4" TUBING CLAMP - BOTH GREEN & BLUE COUPLING TUBING CONNECTIONS
 - ⑨ APPROVED BACKFILL
 - ⑩ PVC MAINLINE TO VALVE MANIFOLD
 - ⑪ BALL VALVE COUPLING CONNECTOR - INSTALL ACCORDING TO WATER FLOW DIRECTION ARROW
 - ⑫ PEA GRAVEL (1 CU FT)
 - ⑬ MAIN LINE
 - ⑭ PRESSURE RELIEF VALVE
- NOTE:** ITEMS 3,4,5,6,7, AND 8 ARE INCLUDED WITH THE EZ-FLO SYSTEM.

7 IN-LINE FERTIGATION
1/2" = 1'-0"



- LEGEND:**
- ① 1" GALVANIZED STEEL PIPE FROM IRRIGATION LINE PENETRATION THROUGH ROOF PER PHASE III EXPLORATION CENTER PLANS. SEE SHEET P.1.1
 - ② 3/4" GALVANIZED PIPE. CONNECT TO PARAPET WALL WITH 2PCS 304 STAINLESS STEEL WALL MOUNT PIPE SUPPORTS AT 4-FEET O.C.
 - ③ GREEN ROOF SOIL MEDIA FINISHED SURFACE
 - ④ GALVANIZED PIPE ELL. QUANTITY AS NEEDED
 - ⑤ WATERPROOF ROOFING MEMBRANE PER PHASE III EXPLORATION CENTER PROJECT. SEE ARCHITECTURAL PLANS.
 - ⑥ PARAPET WALL PER PHASE III EXPLORATION CENTER PROJECT. SEE ARCHITECTURAL PLANS.
 - ⑦ VALVE BOX PER DETAIL 5, THIS SHEET
 - ⑧ TRANSITION TO PVC PIPE AT THIS JOINT

8 IRRIGATION / PARAPET CROSSING
3/4" = 1'-0"



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SIGNATURE
7/9/2024
DATE SIGNED

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CITY OF WATSONVILLE
RAMSAY PARK GREEN INFRASTRUCTURE
IRRIGATION DETAILS

CITY OF WATSONVILLE
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IRRIGATION DETAILS

JOB #: 1535-0007
DESIGNERS: EAS
DRAWN BY: EAS
DATE: 07/09/24
DRAWING NO.
ID-1
18 OF 19 SHEETS

GENERAL NOTES

- CODE COMPLIANCE: ALL WORK SHALL CONFORM TO AND BE PERFORMED IN ACCORDANCE WITH CODES, STANDARDS, AND ORDINANCES AS SET FORTH BY THE AUTHORITIES HAVING JURISDICTION AND THEIR LATEST ADOPTED EDITIONS (IN EFFECT AT TIME CONSTRUCTION) OF THE FOLLOWING PUBLICATIONS:
 - CALIFORNIA CODE OF REGULATIONS TITLE 24; INCLUDES 2022 CALIFORNIA ELECTRICAL CODE, 2022 CALIFORNIA FIRE CODE, 2022 CALIFORNIA BUILDING CODE, ETC. WITH LOCAL AMENDMENTS AS APPLICABLE.
 - GENERATOR: 2022 CALIFORNIA FIRE CODE CHAPTER 6, SECTION 604 AND NFPA 110 AND 111. COMPLIANCE WITH UL-2200 IS REQUIRED
 - AMERICANS WITH DISABILITIES ACT (ADA).
- SAFETY: THE ELECTRICAL CONTRACTOR IS RESPONSIBLE TO MAINTAIN ALL EQUIPMENT IN A SAFE AND RESPONSIBLE MANNER. KEEP DEAD FRONT EQUIPMENT IN PLACE WHILE EQUIPMENT IS ENERGIZED. CONDUCT ALL CONSTRUCTION OPERATIONS IN A SAFE MANNER FOR EMPLOYEES AS WELL AS OTHER WORKPERSONS OR ANYONE VISITING THE JOB SITE. PROVIDE BARRIERS, FLAGS, TAPE, ETC. AS REQUIRED FOR SAFETY. THE CONTRACTOR SHALL HOLD ALL PARTIES HARMLESS OF NEGLIGENT SAFETY PRACTICES, WHICH MAY CAUSE INJURY TO OTHERS ON OR NEAR THE JOB SITE.
- ALL CONDUCTORS SHALL BE COPPER WITH TYPE THHN/THWN INSULATION UNLESS OTHERWISE NOTED.

REFERENCE NOTES

- INTERCEPT EXISTING AND EXTEND 1" CONDUIT STUBBED OUT FROM PEDESTRIAN FIXTURE AS PART OF NATURE CENTER PROJECT. EXTEND 2#10 THWN & 1#10 GND TO NEW LIGHTS.
- 1" - 2#10 THWN & 1#10 GND. TYPICAL.
- NEW AREA LIGHT PER FIXTURE SCHEDULE. SEE DETAIL 3. TYPICAL.

ABBREVIATIONS

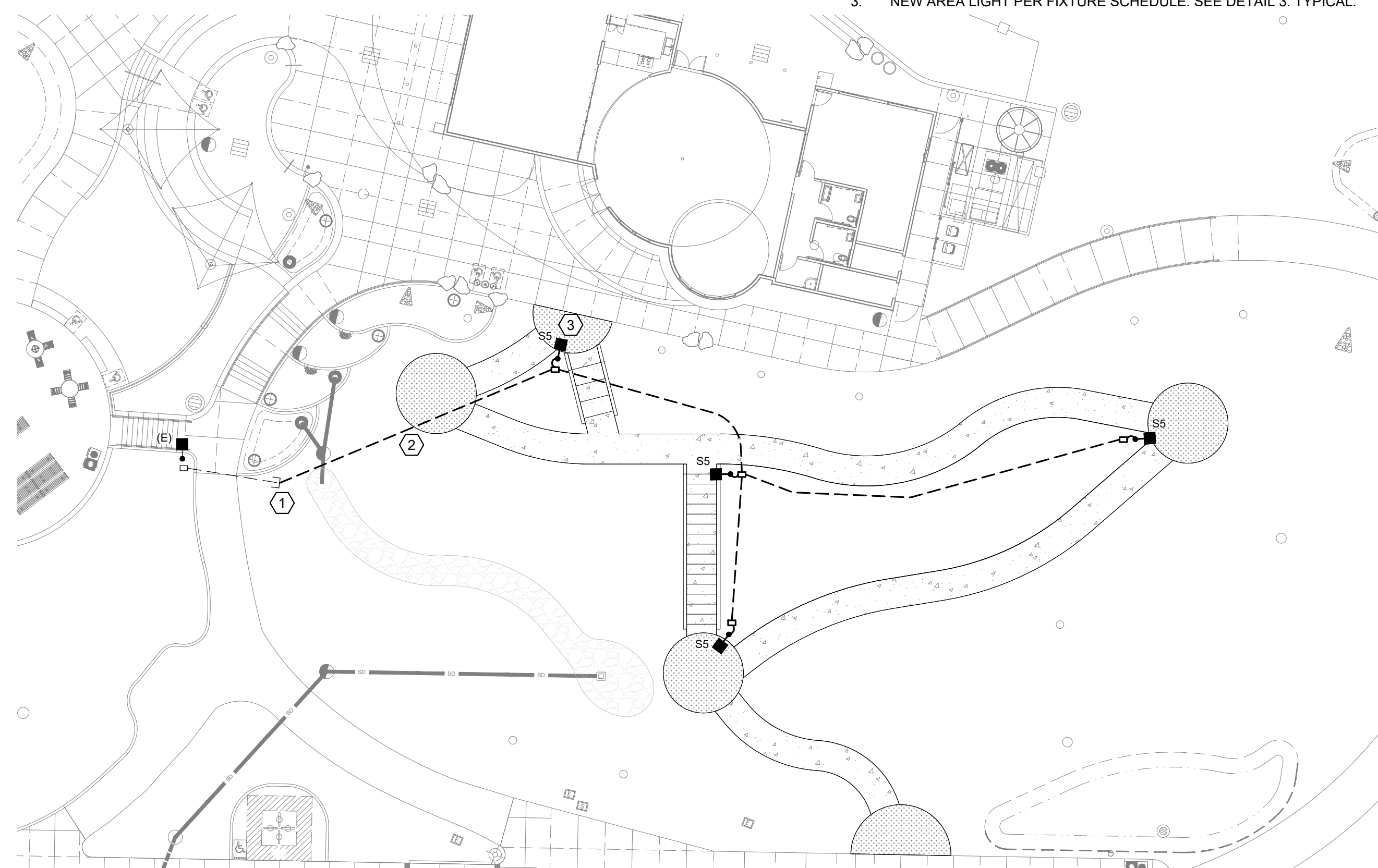
A AMPERE	GRS GALVANIZED RIGID STEEL
AF AMP FUSE RATING	GWS GANGED WITH SWITCH
AFF ABOVE FINISH FLOOR	IG ISOLATED GROUND
AFG ABOVE FINISH GRADE	LTG LIGHTING
AIC AMPERES INTERRUPT CAPACITY	MC MECHANICAL CONTRACTOR
AS AMP SWITCH RATING	MCB MAIN CIRCUIT BREAKER
BFG BELOW FINISH GRADE	MLO MAIN LUGS ONLY
CB CIRCUIT BREAKER	MSB MAIN SWITCHBOARD
CEC CA ELECTRICAL CODE	MTTB MAIN TELEPHONE TERMINAL BOARD
CKT CIRCUIT	(N) NEW
C CONDUIT	NIC NOT IN CONTRACT
C.O. CONDUIT ONLY	NL NIGHT LIGHT
(E) EXISTING	P POLE
EC ELECTRICAL CONTRACTOR	PV PHOTOVOLTAIC
EF# EXHAUST FAN	(R) RELOCATE(D)
(EXN) (E) IN (N) LOCATION	(TRB) TO BE REMOVED
(EXR) (E) TO BE (R)	TYP TYPICAL
(F) FUTURE	UC UNDERCABINET
FA FIRE ALARM	UG UNDERGROUND
FACP FIRE ALARM CONTROL PANEL	UON UNLESS OTHERWISE NOTED
G GROUNDING CONDUCTOR	V VOLT
GC GENERAL CONTRACTOR	VA VOLT AMPERES
GFI GROUND FAULT CKT INTERRUPTER	W WATT, WIRE
GND GROUND	WP WEATHERPROOF (NEMA 3R)

LEGEND

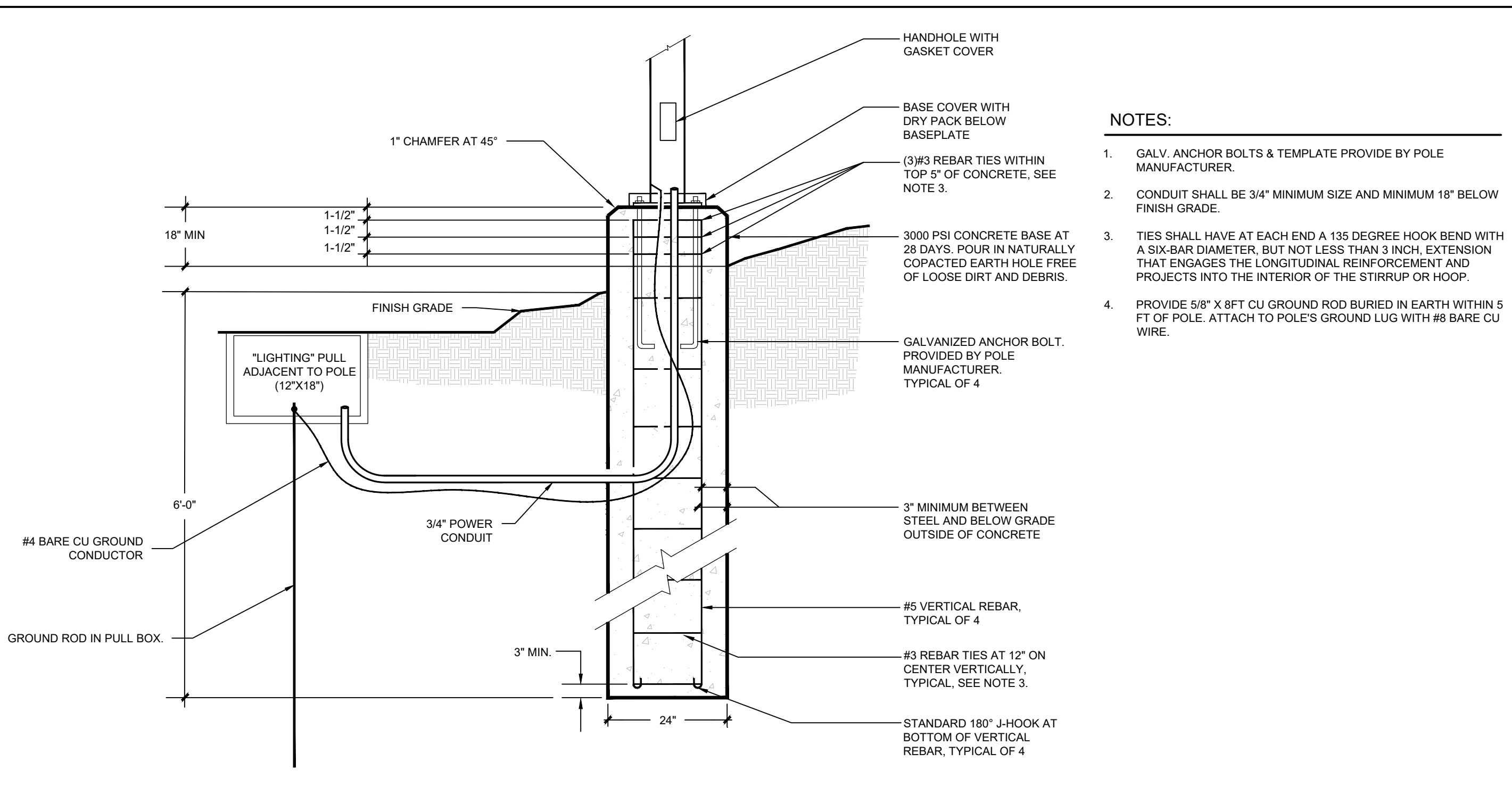
—	NEW ABOVE GROUND/SURFACE CONDUIT/CIRCUIT
- - -	NEW UNDERGROUND CONDUIT/CIRCUIT
- · - · -	ISOLATED GROUND
—	EXISTING CONDUIT/CIRCUIT
- · - · -	EXISTING UNDERGROUND CONDUIT/CIRCUIT
□	PULL BOX, HANDHOLE, JUNCTION BOX

LIGHTING AND POLE SCHEDULE

TYPE	SYMBOL	MANUFACTURER	CATALOG NO.	VOLTAGE	MAX. VA.	LAMPING	MOUNTING	DESCRIPTION
S5	■	HEAD: GARDCO POLE: KW INDUSTRIES	HEAD: PUREFORM 26 P26-500-NW-G2-AR-5-UNV-BL-IMRI3-MGY POLE: RSP15-4.0-11-GRY-DM10-BC-LAB	120-277 VAC	75	4000K LED	POLE 15'	AREA LIGHT WITH INTEGRAL MOTION SENSOR. MOUNTED TO 15FT TALL 4" STRAIGHT ROUND POLE. FIXTURES TO MATCH NATURE CENTER PEDESTRIAN LIGHTS. NO SUBSTITUTIONS.

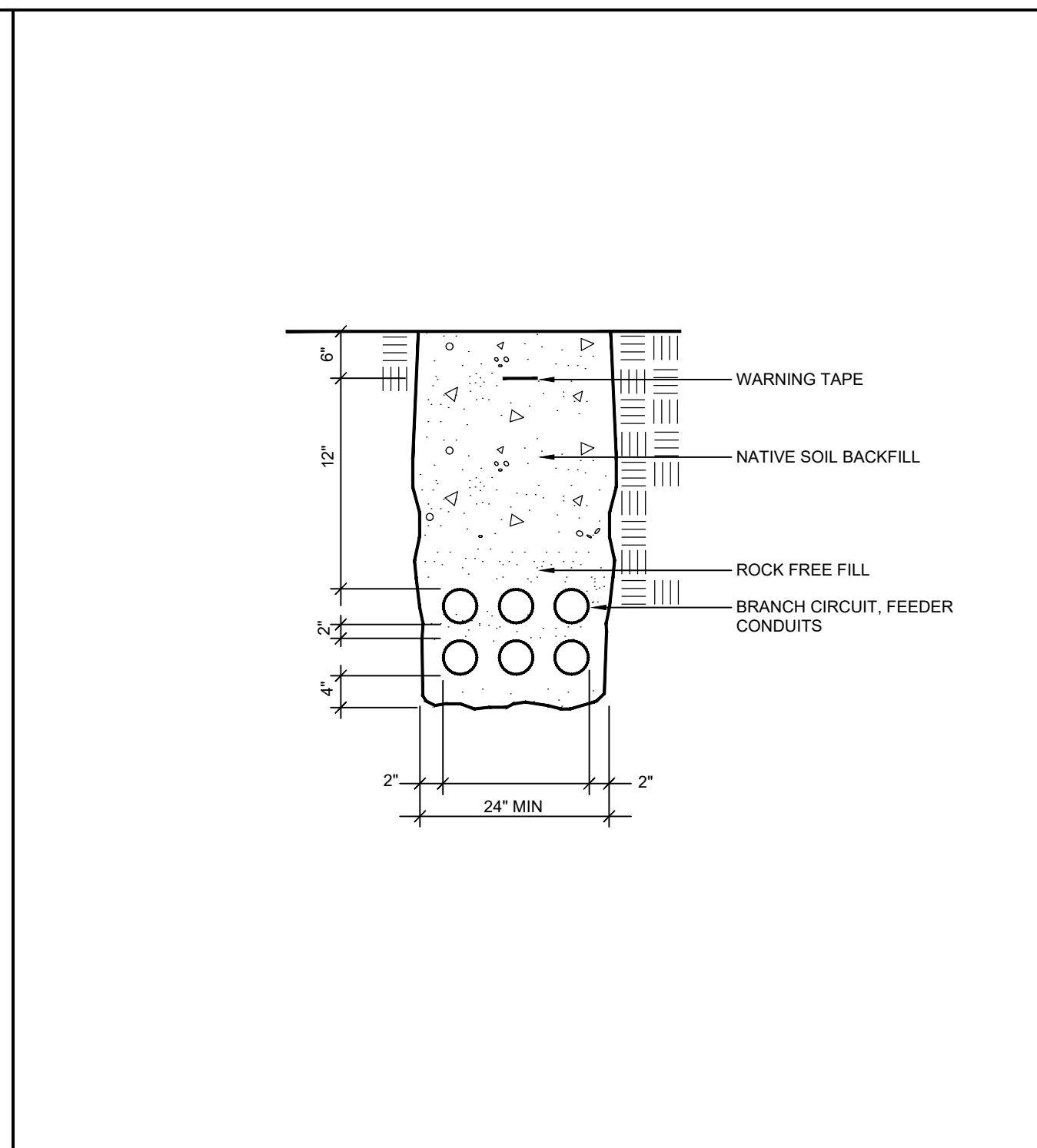
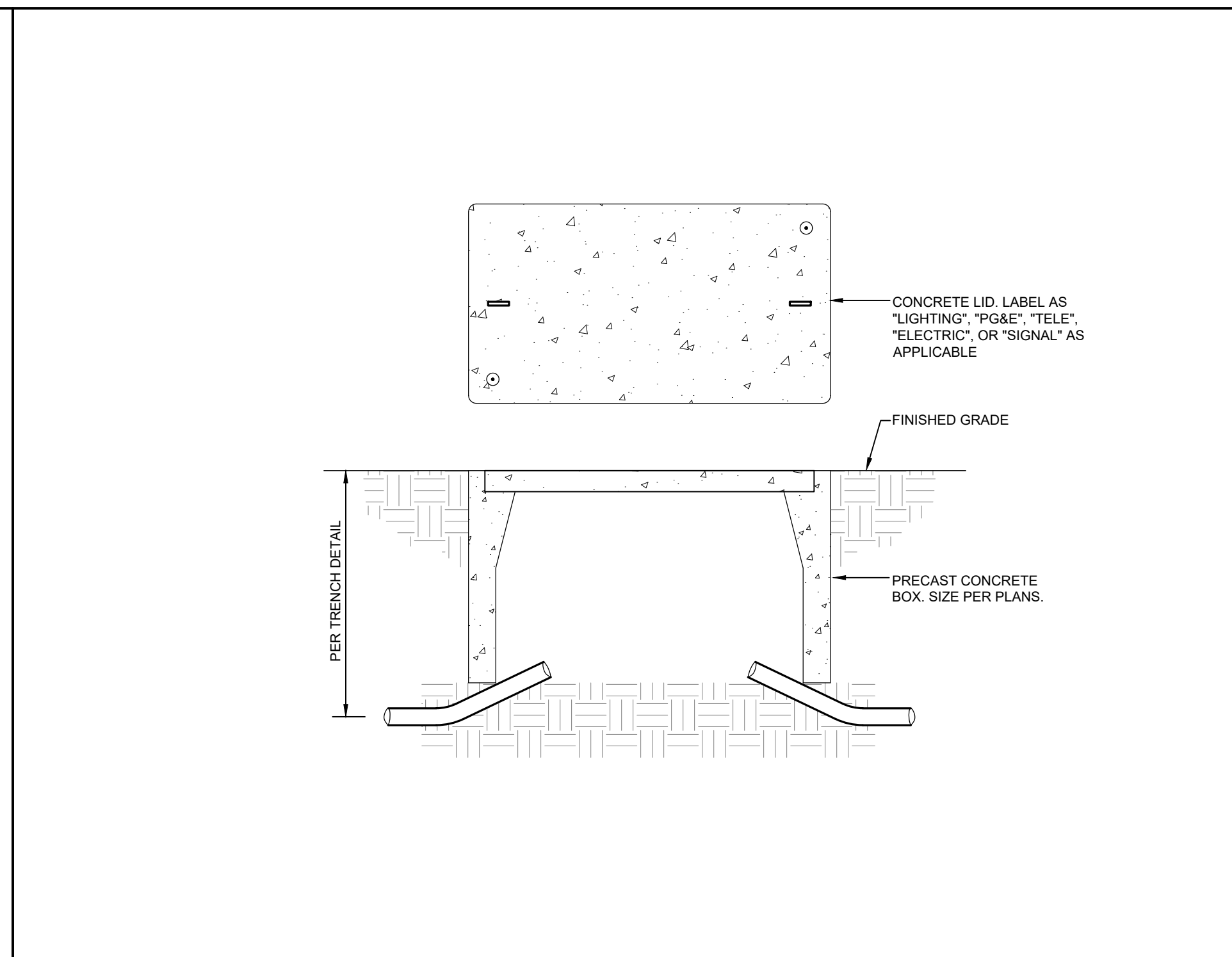


SITE ELECTRICAL PLAN
SCALE: 1"=20'-0"
NORTH



NOTES:

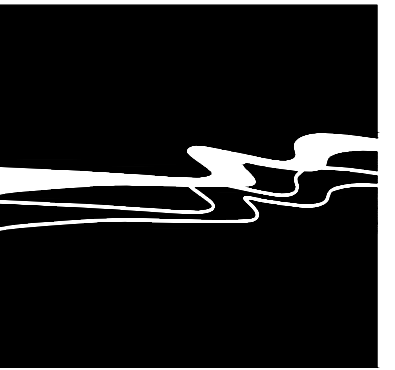
- GALV. ANCHOR BOLTS & TEMPLATE PROVIDE BY POLE MANUFACTURER.
- CONDUIT SHALL BE 3/4" MINIMUM SIZE AND MINIMUM 18" BELOW FINISH GRADE.
- TIES SHALL HAVE AT EACH END A 135 DEGREE HOOK BEND WITH A SIX-BAR DIAMETER, BUT NOT LESS THAN 3 INCH. EXTENSION THAT ENGAGES THE LONGITUDINAL REINFORCEMENT AND PROJECTS INTO THE INTERIOR OF THE STIRRUP OR HOOP.
- PROVIDE 5/8" X 8FT CU GROUND ROD BURIED IN EARTH WITHIN 5 FT OF POLE. ATTACH TO POLE'S GROUND LUG WITH #6 BARE CU WIRE.



3 TYPICAL LIGHT POLE MOUNTING DETAIL

2 TYPICAL AT GRADE PULL BOX DETAIL

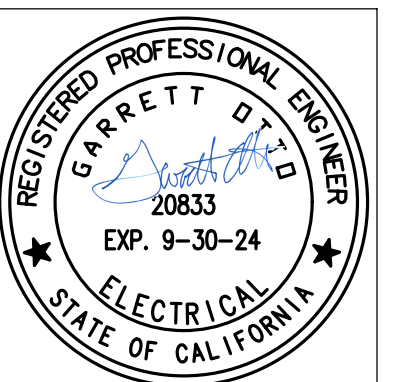
1 TYPICAL BRANCH CIRCUIT TRENCH



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CITY OF WATSONVILLE
RAMSAY PARK GREEN INFRASTRUCTURE
ELECTRICAL PLAN AND DETAILS

JOB #: 24-002
DESIGNERS: OTTO
DRAWN BY: OTTO
DATE: 8/19/2024

DRAWING NO.
E-1
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