

**Meeting of the Central Valley Flood Protection Board
February 26, 2016
Staff Report – Encroachment Permit
City of Sacramento
American River Parkway Enhancements at Sutter’s Landing Park**

1.0 – ITEM

Consider approval of Permit No. 19051. (Attachment B)

2.0 – APPLICANT

City of Sacramento

3.0 – LOCATION

The project is located at Sutter’s Landing Park at the northern terminus of 28th Street, north of the intersection with C Street in the City of Sacramento. (American River, Sacramento County, see Attachment A)

4.0 – DESCRIPTION

The applicant proposes to modify approximately 3,500 feet of an existing gravel service road located at the waterside levee toe to facilitate the construction of a paved multi-use trail. The proposed project also involves the creation of a landside trailhead to include benches, interpretive kiosks, a sprinkler system; and the restoration of floodplain habitat by removing non-native vegetation and replanting with native vegetation (Attachment C).

5.0 – PROJECT ANALYSIS

The American River Parkway Enhancements at Sutter’s Landing Park is a trail extension and floodplain habitat restoration project. The trail enhancements include a gathering area with benches, interpretive elements, and planting areas with a permanent irrigation system on the land-side of the levee. The project will also modify a

segment of gravel service road at the water-side toe of the levee to incorporate a paved multi-use trail. The floodplain habitat restoration includes removal of non-native vegetation and hand broadcasting of native grasses and/or forb seed mix, installation of approximately 4,000 native herbaceous small container plants and installation of a temporary on-grade irrigation system to irrigate the plants during the three year establishment period.

5.1 – Hydraulic Analysis

The project features that may have an adverse impact to water surface elevations are the proposed native herbaceous plantings on the riverbank. These plantings will replace existing non-native vegetation that are similar in height and density. All other improvement features are above the water surface elevation. Because there will be no proposed encroachments or significant vegetation changes to the river channel roughness the proposed project would have no impact on the American River water surface elevation.

5.2 – Geotechnical Analysis

There will be no work conducted underground; therefore, a geotechnical analysis was not required.

6.0 – AGENCY COMMENTS AND ENDORSEMENTS

The comments and endorsements associated with this project, from all pertinent agencies are shown below:

- American River Flood Control District endorsed the application on June 12, 2015 with no conditions.
- The U.S. Army Corps of Engineers 33 USC 408 decision letter has not been received for this application. Staff anticipates receipt of a letter indicating that the USACE District Engineer has no objection to the project, subject to conditions. Upon receipt of the letter, staff will review to ensure conformity with the permit language and incorporate it into the permit as Exhibit A.

7.0 – CEQA ANALYSIS

Board staff has prepared the following California Environmental Quality Act (CEQA) findings:

The Board determined that the project is categorically exempt from CEQA under a Class 1 Categorical Exemption (CEQA Guidelines Section 15301) covering minor alterations to existing facilities.

8.0 – SECTION 8610.5 CONSIDERATIONS

1. Evidence that the Board admits into its record from any party, State or local public agency, or nongovernmental organization with expertise in flood or flood plain management:

The Board will make its decision based on the evidence in the permit application and attachments, this staff report, and any other evidence presented by any individual or group.

2. The best available science that related to the scientific issues presented by the executive officer, legal counsel, the Department or other parties that raise credible scientific issues.

The accepted industry standards for the work proposed under this permit as regulated by Title 23 have been applied to the review of this permit.

3. Effects of the decision on facilities of the State Plan of Flood Control, and consistency of the proposed project with the Central Valley Flood Protection Plan as adopted by Board Resolution 2012-25 on June 29, 2012:

This project has no adverse effects on facilities of the State Plan of Flood Control as the hydrologic impacts from the proposed project are considered to be insignificant. All project improvements except for vegetation are placed above the water surface elevation. The proposed vegetation is similar to existing and therefore shouldn't impact the water surface elevation.

4. Effects of reasonable projected future events, including, but not limited to, changes in hydrology, climate, and development within the applicable watershed:

There will be no effects to the proposed project from reasonable projected future events. The project is based on an approved City of Sacramento Overall Master

Plan for Sutter's Landing Park and is not expected to impact the American River water surface elevation.

9.0 – STAFF RECOMMENDATION

Staff recommends that the Board:

Adopt: the CEQA findings; determining that the project is categorically exempt from CEQA;

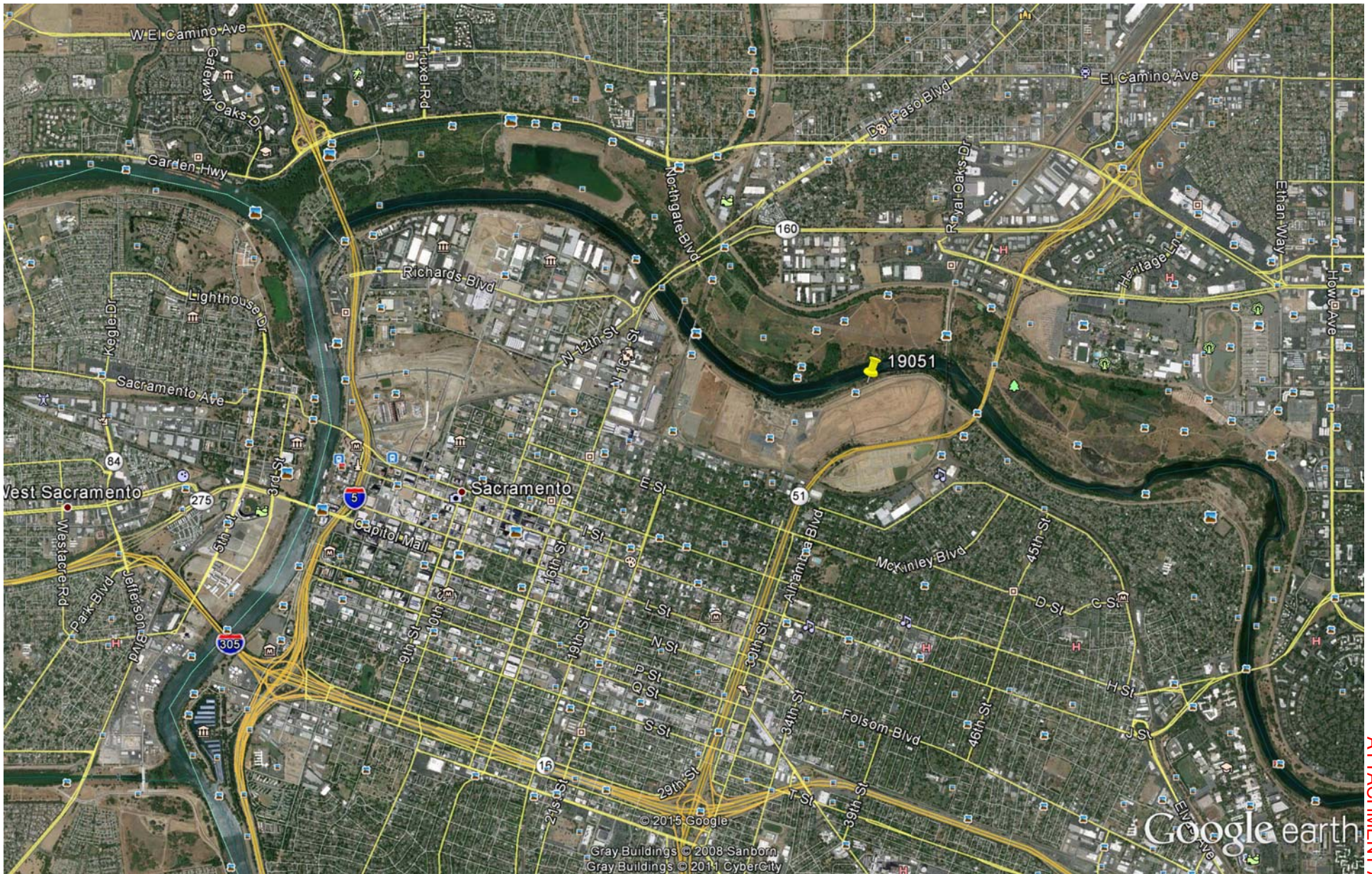
Approve: Encroachment Permit No. 19051, in substantially the form provided, conditioned upon receipt of a U.S. Army Corps of Engineers 33 USC 408 decision letter indicating that the District Engineer has no objection to the project, subject to conditions;

Direct: the Executive Officer to take the necessary actions to execute the permit and file a Notice of Exemption with the State Clearinghouse.

10.0 – LIST OF ATTACHMENTS

- A. Location Maps
- B. Draft Permit No. 19051
- C. Design Plans

Design Review:	Ilene Wellman-Barbree, PE, Senior Engineer
Environmental Review:	James Herota, Senior Environmental Scientist (Specialist)
Document Review:	Gary Lemon, P.E., Chief Permitting Section Mitra Emami, P.E., Operation Branch Chief
Legal Review:	Nicole Rinke, Attorney General



Google Earth Pro



ATTACHMENT A - Location Maps



DRAFT

STATE OF CALIFORNIA
THE RESOURCES AGENCY
THE CENTRAL VALLEY FLOOD PROTECTION BOARD

PERMIT NO. 19051 BD

This Permit is issued to:

City of Sacramento
915 I Street, 3rd Floor
Sacramento, California 95814

To modify approximately 2/3-mile segment of gravel service road at the waterside toe of the levee to incorporate a paved multi-use trail. It will also create a trailhead and restore floodplain habitat with a temporary irrigation system on the waterside and permanent irrigation on the landside project area.

The project is located at Sutter's Landing Park at the northern terminus of 28th Street, north of the intersection with C Street. (Section 32S, T9N, R 5E, MDB&M, American River Flood Control District, American River, Sacramento County).

NOTE: Special Conditions have been incorporated herein which may place limitations on and/or require modification of your proposed project as described above.

(SEAL)

Dated: _____

Executive Officer

GENERAL CONDITIONS:

ONE: This permit is issued under the provisions of Sections 8700 – 8723 of the Water Code.

TWO: Only work described in the subject application is authorized hereby.

THREE: This permit does not grant a right to use or construct works on land owned by the Sacramento and San Joaquin Drainage District or on any other land.

FOUR: The approved work shall be accomplished under the direction and supervision of the State Department of Water Resources, and the permittee shall conform to all requirements of the Department and The Central Valley Flood Protection Board.

FIVE: Unless the work herein contemplated shall have been commenced within one year after issuance of this permit, the Board reserves the right to change any conditions in this permit as may be consistent with current flood control standards and policies of The Central Valley Flood Protection Board.

SIX: This permit shall remain in effect until revoked. In the event any conditions in this permit are not complied with, it may be revoked on 15 days' notice.

SEVEN: It is understood and agreed to by the permittee that the start of any work under this permit shall constitute an acceptance of the conditions in this permit and an agreement to perform work in accordance therewith.

EIGHT: This permit does not establish any precedent with respect to any other application received by The Central Valley Flood Protection Board.

NINE: The permittee shall, when required by law, secure the written order or consent from all other public agencies having jurisdiction.

TEN: The permittee is responsible for all personal liability and property damage which may arise out of failure on the permittee's part to perform the obligations under this permit. If any claim of liability is made against the State of California, or any departments thereof, the United States of America, a local district or other maintaining agencies and the officers, agents or employees thereof, the permittee shall defend and shall hold each of them harmless from each claim.

ELEVEN: The permittee shall exercise reasonable care to operate and maintain any work authorized herein to preclude injury to or damage to any works necessary to any plan of flood control adopted by the Board or the Legislature, or interfere with the successful execution, functioning or operation of any plan of flood control adopted by the Board or the Legislature.

TWELVE: Should any of the work not conform to the conditions of this permit, the permittee, upon order of The Central Valley Flood Protection Board, shall in the manner prescribed by the Board be responsible for the cost and expense to remove, alter, relocate, or reconstruct all or any part of the work herein approved.

SPECIAL CONDITIONS FOR PERMIT NO. 19051 BD

LIABILITY AND INDEMNIFICATION

THIRTEEN: The permittee shall defend, indemnify, and hold the Central Valley Flood Protection Board (Board) and the State of California, including its agencies, departments, boards, commissions, and their respective officers, agents, employees, successors and assigns (collectively, the "State"), safe and harmless, of and from all claims and damages related to the Board's approval of this permit, including but not limited to claims filed pursuant to the California Environmental Quality Act. The State expressly reserves the right to supplement or take over its defense, in its sole discretion.

FOURTEEN: The permittee is responsible for all liability associated with construction, operation, and maintenance of the permitted facilities and shall defend, indemnify, and hold the Board and the State of California; including its agencies, departments, boards, commissions, and their respective officers, agents, employees, successors and assigns (collectively, the "State"), safe and harmless, of and from all claims and damages arising from the project undertaken pursuant to this permit, all to the extent allowed by law. The State expressly reserves the right to supplement or take over its defense, in its sole discretion.

FIFTEEN: The Board and Department of Water Resources shall not be held liable for any damages to the permitted encroachment(s) resulting from flood fight, operation, maintenance, inspection, or emergency repair.

AGENCY CONDITIONS

SIXTEEN: The permittee shall comply with all conditions set forth in the letter from the U.S. Army Corps of Engineers District Engineer dated January XX, 2016, which is attached to this permit as Exhibit A and is incorporated by reference.

SEVENTEEN: If the permittee does not comply with the conditions of the permit and enforcement by the Board is required, the permittee shall be responsible for bearing all costs associated with the enforcement action, including reasonable attorney's fees. Permittee acknowledges that State law allows the imposition of fines in enforcement matters.

PRE-CONSTRUCTION

EIGHTEEN: The permittee shall contact the Board by telephone at (916) 574-0609, and submit the enclosed postcard to schedule a preconstruction conference. Failure to do so at least 10 working days prior to start of work may result in delay of the project.

CONSTRUCTION

NINETEEN: All work approved by this permit shall be in accordance with the submitted drawings and specifications except as modified by special permit conditions herein. No further work, other than that approved by this permit, shall be done in the area without prior approval of the Board.

TWENTY: No construction work of any kind shall be done during the flood season from November 1 to April 15 without prior approval of the Board, and shall be removed after completion of the project.

TWENTY-ONE: No material stockpiles, temporary buildings, or equipment shall remain in the floodway during the flood season from November 1 to April 15.

VEGETATION / ENVIRONMENTAL MITIGATION

TWENTY-TWO: The permittee will be responsible for securing any necessary permits incidental to habitat manipulation and restoration work completed in the flood control project, and will provide any biological surveying, monitoring, and reporting needed to satisfy those permits.

TWENTY-THREE: Areas where plantings are lost to erosion may be replanted to the level of plantings in the approved project plans and specifications.

TWENTY-FOUR: Cleared trees and brush (or pruning therefrom) shall be completely burned or removed from the floodway, and downed trees or brush shall not remain in the floodway during the flood season from November 1st to April 15th.

POST-CONSTRUCTION

TWENTY-FIVE: Except with respect to the activities expressly allowed under this permit, the work

area shall be restored to the condition that existed prior to start of work.

TWENTY-SIX: Any damage to the levee crown roadway or access ramps that will be utilized for access for this project shall be promptly repaired to the condition that existed prior to this project.

TWENTY-SEVEN: All debris generated by this project shall be disposed of outside the floodway.

OPERATIONS AND MAINTENANCE

TWENTY-EIGHT: The permittee shall be responsible for repair of any damages to the channel, banks, levees, and floodway due to construction, operation, or maintenance of the proposed project.

TWENTY-NINE: The permittee shall maintain the permitted encroachment(s) within the utilized area in the manner required and as requested by the authorized representative of the Board, Department of Water Resources, or any other agency responsible for maintenance.

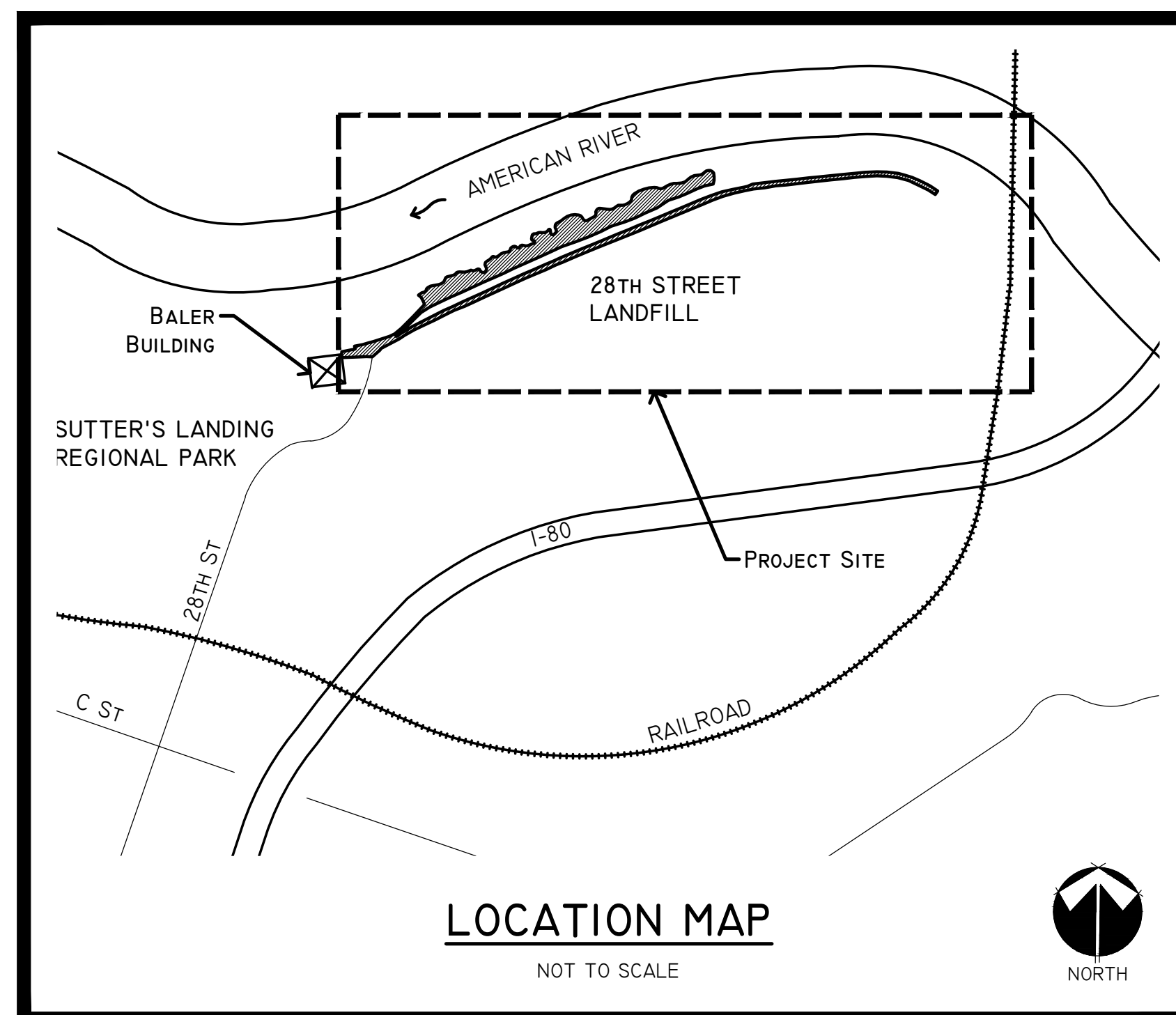
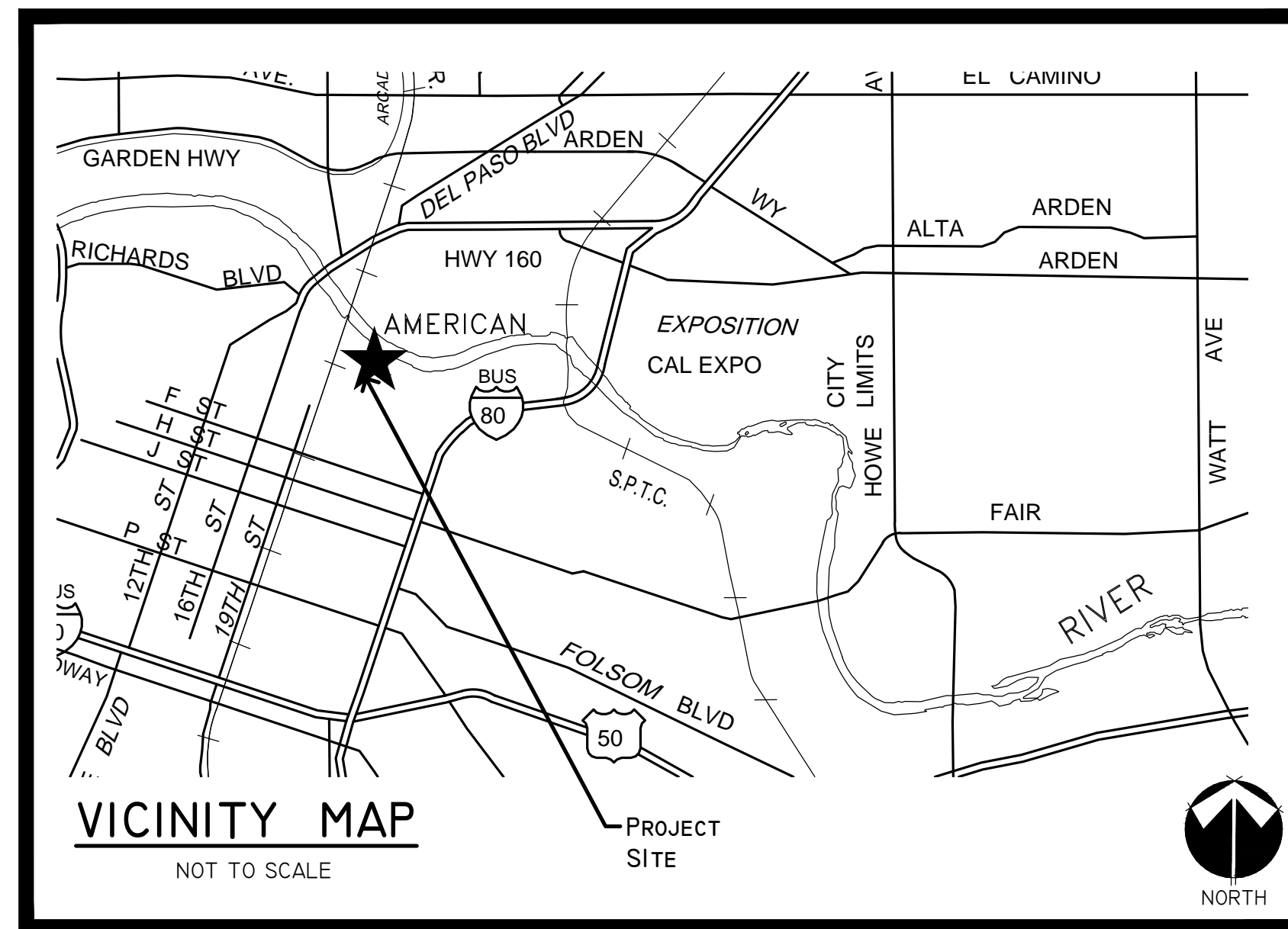
THIRTY: The permitted encroachment(s) shall not interfere with the flood conveyance capacity of the American River. If the permitted encroachment(s) are determined by any agency responsible for operation or maintenance of the flood control project to interfere, the permittee shall be required, at permittee's cost and expense, to modify or remove the permitted encroachment(s) under direction of the Board. If the permittee does not comply, the Board may modify or remove the encroachment(s) at the permittee's expense.

PROJECT ABANDONMENT, CHANGE IN PLAN OF FLOOD CONTROL

THIRTY-ONE: If the project, or any portion thereof, is to be abandoned in the future, the permittee shall abandon the project under direction of the Board, at the permittee's cost and expense.

THIRTY-TWO: The permittee may be required, at permittee's cost and expense, to remove, alter, relocate, or reconstruct all or any part of the permitted encroachment(s) if removal, alteration, relocation, or reconstruction is necessary as part of or in conjunction with any present or future flood control plan or project or if damaged by any cause. If the permittee does not comply, the Board may perform this work at the permittee's expense.

END OF CONDITIONS



CITY REPRESENTATIVE:
 TIN-WAH WONG
 LANDSCAPE ARCHITECT, #L972
 CITY OF SACRAMENTO, LANDSCAPE ARCHITECTURE SECTION
 915 I STREET, 5TH FLOOR
 SACRAMENTO, CA 95814
 TELEPHONE: (916) 808-5540

APPROVED BY:

JAMES COMBS, DIRECTOR (DATE)
 DEPARTMENT OF PARKS AND RECREATION

C. GARY HYDEN, SUPERVISING LANDSCAPE ARCHITECT #1741 (DATE)
 DEPARTMENT OF PARKS AND RECREATION

SHANNON D. BROWN, PARKS MAINTENANCE MANAGER (DATE)
 DEPARTMENT OF PARKS AND RECREATION

CITY OF SACRAMENTO

DEPARTMENT OF PARKS AND RECREATION

LANDSCAPE ARCHITECTURE SECTION

CONSTRUCTION PLANS FOR:

AMERICAN RIVER PARKWAY ENHANCEMENTS

AT SUTTER'S LANDING PARK

20 28TH STREET
 SACRAMENTO, CA 95816

PROJECT NUMBER: LI9-1672-00

PARCEL NO.: 003-0010-001
 001-0170-019

TOTAL AREA DISTURBED: 6 ACRES 1

GENERAL NOTES

- COORDINATION OF CONTRACT DOCUMENTS:** REFER TO SECTION 5-3 COORDINATION OF CONTRACT DOCUMENTS OF THE CITY OF SACRAMENTO STANDARD SPECIFICATIONS FOR PUBLIC CONSTRUCTION DATED JUNE 2007 INCLUDING ALL APPLICABLE ADDENDA AND MEMORANDA.
- TRAFFIC CONTROL REQUIREMENT:** REFER TO SECTION 6-10 TRAFFIC CONTROL REQUIREMENTS OF THE STANDARD SPECIFICATIONS FOR REQUIREMENTS.
- EXISTING FACILITIES:** REFER TO SECTION 13 EXISTING FACILITIES OF THE STANDARD SPECIFICATIONS FOR REQUIREMENTS.
- LOCATION AND PROTECTION OF EXISTING UTILITIES:** REFER TO SECTION 6-19 MAIN AND TRUNKLINE UTILITIES OF THE STANDARD SPECIFICATIONS FOR REQUIREMENTS.
- PERMANENT SURVEY MONUMENTS:** REFER TO SECTION 5-6 PERMANENT SURVEY OF MONUMENTS OF THE STANDARD SPECIFICATIONS FOR REQUIREMENTS.
- IF HUMAN BURIALS ARE ENCOUNTERED:** ALL WORK IN THE AREA SHALL STOP IMMEDIATELY AND THE SACRAMENTO COUNTY CORONER'S OFFICE SHALL BE NOTIFIED IMMEDIATELY. IF THE REMAINS ARE DETERMINED TO BE NATIVE AMERICAN IN ORIGIN, BOTH THE NATIVE AMERICAN HERITAGE COMMISSION AND ANY IDENTIFIED DESCENDANTS MUST BE NOTIFIED AND RECOMMENDATIONS FOR TREATMENT SOLICITED. PURSUANT TO: CEQA SECTION 15064.5; HEALTH AND SAFETY CODE SECTION 7050.5; PUBLIC RESOURCES CODE SECTION 5097.94 AND 5097.98.
- TRENCH SAFETY PLANS:** REFER TO SECTION 6-8 TRENCH SAFETY PLANS OF THE STANDARD SPECIFICATIONS FOR REQUIREMENTS.
- PROTECTION OF WORK, PERSONS AND PROPERTY AGAINST DAMAGE:** REFER TO SECTION 7-7 PROTECTION OF WORK, PERSONS AND PROPERTY AGAINST DAMAGE OF THE STANDARD SPECIFICATIONS FOR REQUIREMENTS.
- RECORD DRAWINGS:** REFER TO SECTION 5-8 RECORD DRAWINGS OF THE STANDARD SPECIFICATIONS FOR REQUIREMENTS.
- LAWS, REGULATIONS:** REFER TO SECTION 6-1 LAWS TO BE OBSERVED AND SECTION 6-2 CERTAIN LAWS AFFECTING THE WORK OF THE STANDARD SPECIFICATIONS AND THE SPECIAL PROVISIONS FOR REQUIREMENTS.
- UTILITIES:** THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE LOCATION OF ALL EXISTING UTILITIES AND PROTECTING AND REPAIRING DAMAGE TO EXISTING UTILITIES. THE CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT (1-800-642-2444) TWO WORKING DAYS PRIOR TO WORK COMMENCEMENT.

TITLE	SHEET NO.
COVER SHEET	G1.0
SITE PLAN	G1.1
TRAILHEAD SITE PREPARATION AND DEMOLITION PLAN	G1.2
GENERAL NOTES	G1.3
TYPICAL SECTIONS	C1.0
LAYOUT AND PROFILE	C1.1
LAYOUT AND PROFILE	C1.2
GRADING DETAILS	C1.3
TEMPORARY STORMWATER POLLUTION PREVENTION PLAN	C1.4
TEMPORARY STORMWATER POLLUTION PREVENTION PLAN	C1.5
STRIPING PLAN	C1.6
TRAIL IMPROVEMENT PLAN	L1.0
SITE DIMENSIONING PLAN	L1.1
SITE ACCESS PLAN	L1.2
HARDSCAPE DETAILS	L1.3
SITE AMENITY DETAILS (1)	L1.4
SITE AMENITY DETAILS (2)	L1.5
DIMENSIONING DETAILS	L1.6
MONUMENT SIGN DETAILS	L1.7
INTERPRETIVE SIGN FORM 'A' DETAILS	L1.8
INTERPRETIVE SIGN FORM 'B' DETAILS	L1.9
INTERPRETIVE PAVING DETAILS	L1.10
ELECTRICAL NOTES AND LEGEND	E0.1
ELECTRICAL PLAN	E1.1
ELECTRICAL SPECIFICATIONS	E2.1
IRRIGATION NOTES AND LEGEND	L2.0
TRAILHEAD IRRIGATION PLAN	L2.1
TRAILHEAD IRRIGATION DETAILS (1)	L2.2
TRAILHEAD IRRIGATION DETAILS (2)	L2.3
HABITAT RESTORATION AREA IRRIGATION PLAN AND DETAILS	L2.4
TRAILHEAD PLANTING PLAN	L3.0
HABITAT RESTORATION AREA PLANTING PLAN	L3.1
PLANTING DETAILS	L3.2
TRAILHEAD SIGNAGE PLAN	L4.1
MULTI-USE TRAIL SIGNAGE PLAN	L4.2
SIGN DETAILS	L4.3

PREPARED BY:



H.T. HARVEY & ASSOCIATES
 Ecological Consultants

Landscape Architect:
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 Los Gatos, CA 95032
Project Landscape Architect:
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 email: jhoward@harveyecology.com
Project Manager:
 Karen Verpeet, CA #5197
 tel: (408) 458-3200
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MARK THOMAS & COMPANY
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 SACRAMENTO, CALIFORNIA 95826
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Project Engineer:
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Interpretive Designer:
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Project Manager:
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 email: josel@migcom.com



M. NEILS ENGINEERING, INC.
 Electrical Engineers | Lighting Designers

Electrical Engineer:
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 Sacramento, CA 95825
Project Engineer:
 Michael F. Neils, CA #8707
 tel: (916) 923-4400
 email: mneils@mneilsengineering.com

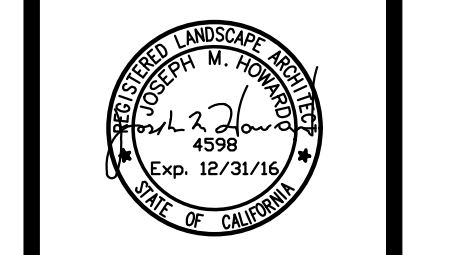


100% SUBMITTAL

CITY OF SACRAMENTO
 DEPARTMENT OF PARKS & RECREATION
 PARK, PLANNING & DEVELOPMENT SERVICES
 LANDSCAPE ARCHITECTURE SECTION
 915 I STREET, FLOOR 5, SACRAMENTO, CA 95814

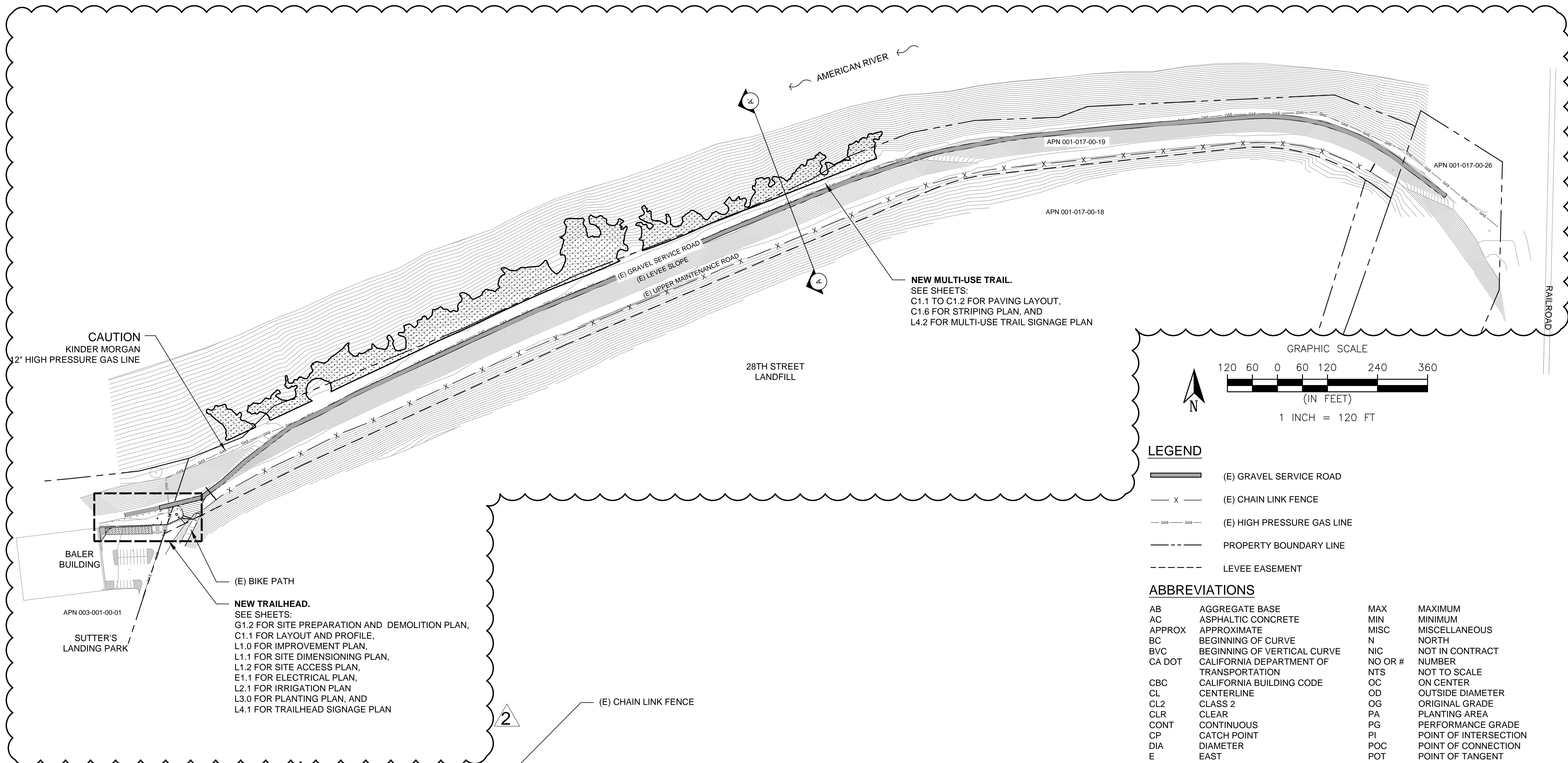
AMERICAN RIVER PARKWAY ENHANCEMENTS
 AT SUTTER'S LANDING PARK
 COVER SHEET

LANDSCAPE ARCHITECT:
 JMH
 DESIGN BY/DRAWN BY:
 LK / KV / SVL / CJ
 CAD FILE:
 G1 COVER.DWG
 DATE: 06/25/2015
 SCALE: NO SCALE
 P. N.: LI9-1672-00
 REVISIONS
 10/22/2015



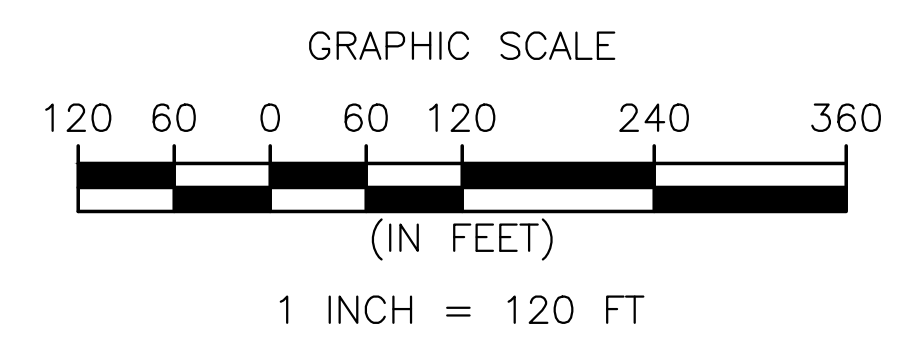
G1.0
 SHEET NO. 1 OF 36

AMERICAN RIVER PARKWAY ENHANCEMENTS AT SUTTER'S LANDING PARK (LI9-1672-00)



NEW MULTI-USE TRAIL.
SEE SHEETS:
C1.1 TO C1.2 FOR PAVING LAYOUT,
C1.6 FOR STRIPING PLAN, AND
L4.2 FOR MULTI-USE TRAIL SIGNAGE PLAN

NEW TRAILHEAD.
SEE SHEETS:
G1.2 FOR SITE PREPARATION AND DEMOLITION PLAN,
C1.1 FOR LAYOUT AND PROFILE,
L1.0 FOR IMPROVEMENT PLAN,
L1.1 FOR SITE DIMENSIONING PLAN,
L1.2 FOR SITE ACCESS PLAN,
E1.1 FOR ELECTRICAL PLAN,
L2.1 FOR IRRIGATION PLAN,
L3.0 FOR PLANTING PLAN, AND
L4.1 FOR TRAILHEAD SIGNAGE PLAN

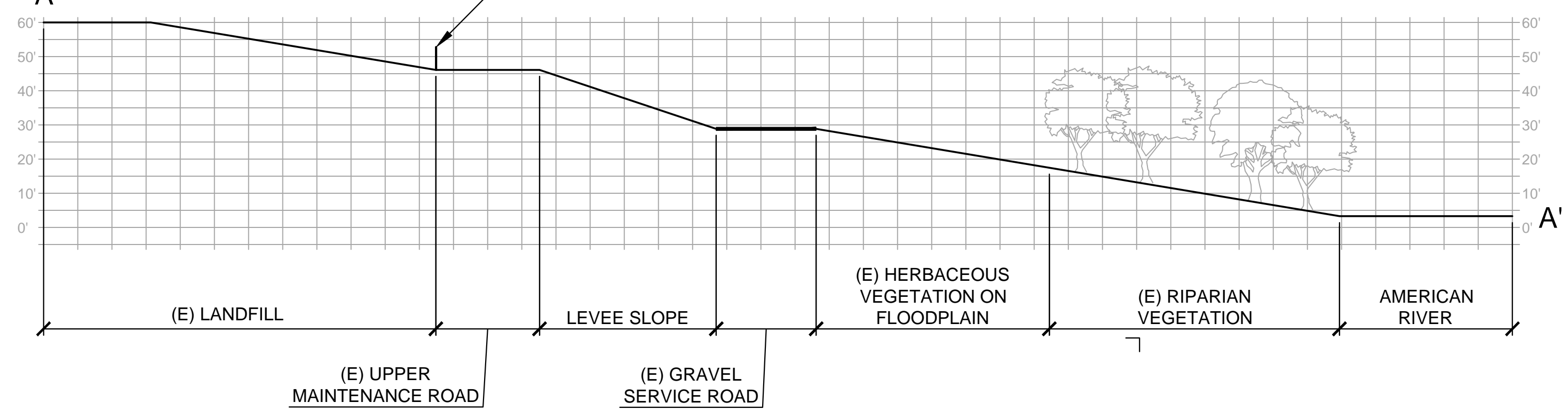


LEGEND

- (E) GRAVEL SERVICE ROAD
- (E) CHAIN LINK FENCE
- (E) HIGH PRESSURE GAS LINE
- PROPERTY BOUNDARY LINE
- LEVEE EASEMENT

ABBREVIATIONS

AB	AGGREGATE BASE	MAX	MAXIMUM
AC	ASPHALTIC CONCRETE	MIN	MINIMUM
APPROX	APPROXIMATE	MISC	MISCELLANEOUS
BC	BEGINNING OF CURVE	N	NORTH
BVC	BEGINNING OF VERTICAL CURVE	NIC	NOT IN CONTRACT
CA DOT	CALIFORNIA DEPARTMENT OF TRANSPORTATION	NO OR #	NUMBER
CBC	CALIFORNIA BUILDING CODE	NTS	NOT TO SCALE
CL	CENTERLINE	OC	ON CENTER
CL2	CLASS 2	OD	OUTSIDE DIAMETER
CLR	CLEAR	OG	ORIGINAL GRADE
CONT	CONTINUOUS	PA	PLANTING AREA
CP	CATCH POINT	PG	PERFORMANCE GRADE
DIA	DIAMETER	PI	POINT OF INTERSECTION
E	EAST	POC	POINT OF CONNECTION
(E)	EXISTING	POT	POINT OF TANGENT
EA	EACH	PRC	POINT OF REVERSE CURVE
EC	END OF CURVE	PSI	POUNDS PER SQUARE INCH
ELEV	ELEVATION	PVC	POLYVINYL CHLORIDE
EP	EDGE OF PAVEMENT	PVI	POINT OF VERTICAL CURVE
EQ	EQUAL	R	RADIUS
ES	EDGE OF SHOULDER	RD	RELATIVE DENSITY
ESA	ENVIRONMENTALLY SENSITIVE AREA	R VALUE	RESISTANCE VALUE
EVC	END OF VERTICAL CURVE	S	SOUTH
FT	FEET	SA	SEEDING AREA
GALV	GALVANIZED	SCH	SCHEDULE
GPH	GALLONS PER HOUR	SH	SHRUB IRRIGATION ZONE
GPM	GALLONS PER MINUTE	SIM	SIMILAR
HP	HIGH POINT	SL	SUTTER'S LANDING
HMA	HOT MIX ASPHALT	STA	STATION
IN	INCHES	T	THREADED
ID	INSIDE DIAMETER	TI	TRAFFIC INDEX
IPS	IRON PIPE SIZE	TYP	TYPICAL
LB / LBS	POUND / POUNDS	VAR	VARIES
LW	LOWER	VC	VERTICAL CURVE



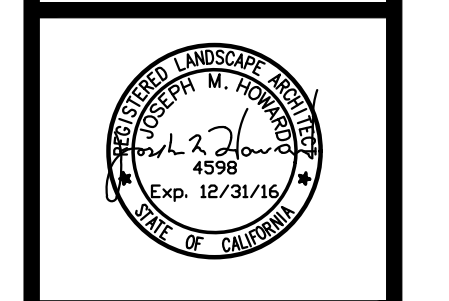
TYPICAL SITE SECTION (EXISTING CONDITIONS) A-A'
SCALE: 1 INCH = 30 FT



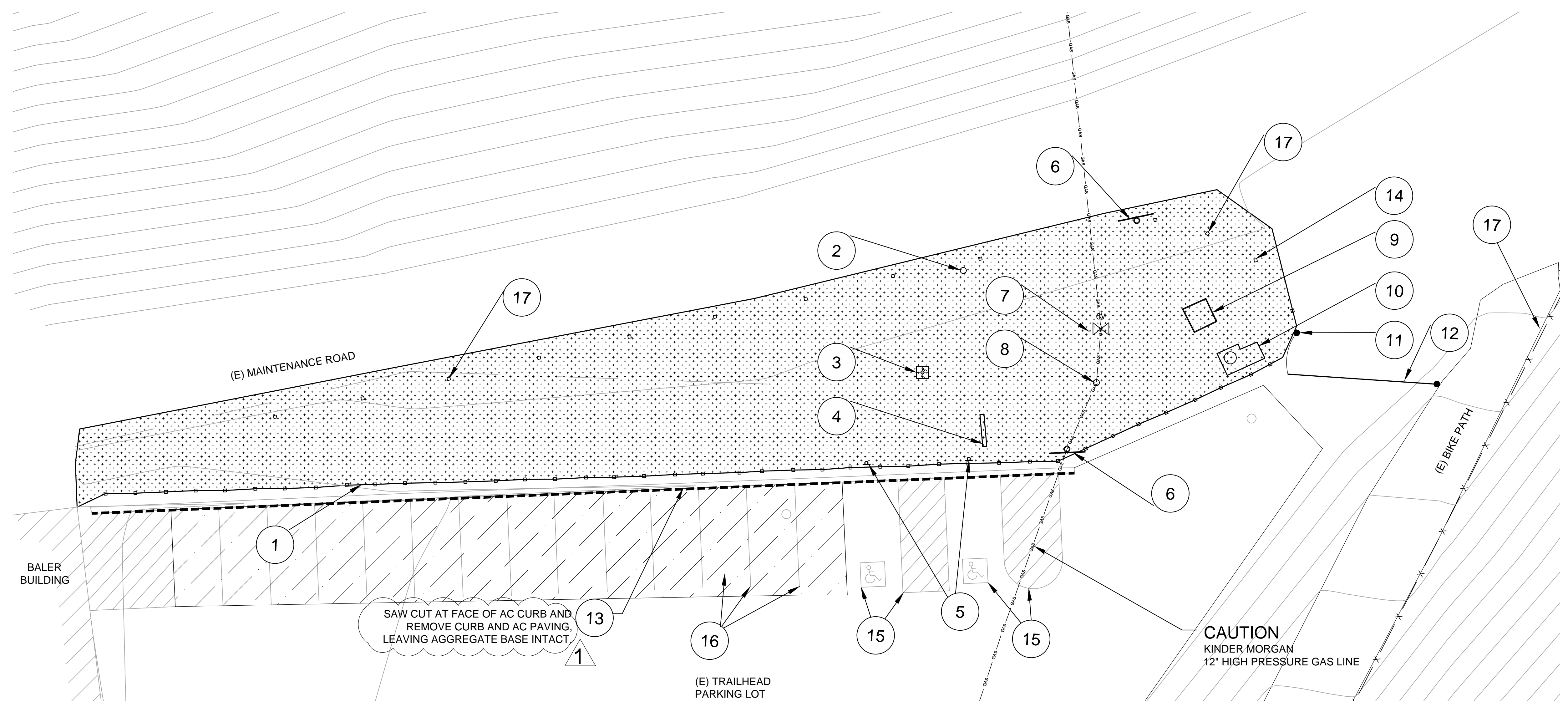
H.T. HARVEY & ASSOCIATES
Ecological Consultants

100% SUBMITTAL

LANDSCAPE ARCHITECT:
JMH
DESIGN BY/DRAWN BY:
LK / KV / SVL / C.J.
CAD FILE:
GL_SITE+DEMO.DWG
DATE: 06/25/2015
SCALE: SEE SHEET
P. N.: L19-1672-00
REVISIONS
1 10/22/2015
2 12/15/2015



GI.1



KEY

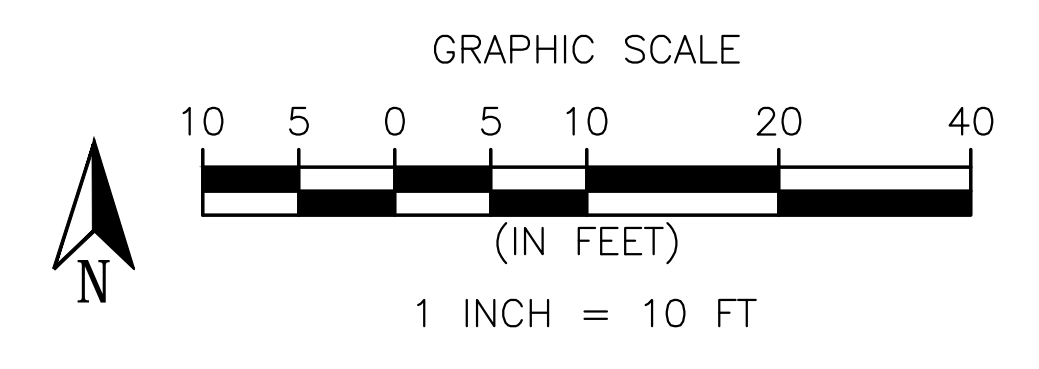
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|--|---|
| 1 CHAIN AND BOLLARD FENCE TO BE REMOVED AND DISPOSED | 13 AC CURB TO BE REMOVED AND DISPOSED |
| 2 DOG WASTE BAG DISPENSER TO BE REMOVED AND DISPOSED | 14 (13) FREE STANDING BOLLARDS TO BE REMOVED AND DISPOSED |
| 3 GROUNDWATER MONITORING WELL TO REMAIN PER SHEET L1.0 (LOCATION APPROX), REVISE AND PROTECT IN PLACE | 15 (E) PAVEMENT STRIPING AND MARKING TO REMAIN, PROTECT IN PLACE |
| 4 BIKE RACK TO BE REMOVED AND DISPOSED | 16 (E) PAVEMENT STRIPING TO BE REMOVED AND SURFACE PREPARED FOR RE-STRIPING |
| 5 (2) ACCESSIBLE PARKING SIGNS, (LOCATION APPROX) SALVAGE AND RELOCATE SIGNS PER SHEET L1.0. REMOVE AND DISPOSE OF POSTS AND FOOTINGS. | 17 (E) SIGNS TO BE REMOVED AND DISPOSED |
| 6 GAS VALVE SIGN TO REMAIN, PROTECT IN PLACE | |
| 7 GAS VALVE AND BOLLARDS TO REMAIN, PROTECT IN PLACE | |
| 8 ELECTRICAL CABINET TO REMAIN, PROTECT IN PLACE | |
| 9 KIOSK TO SALVAGE AND RELOCATE PER SHEET L1.0 | |
| 10 TRASH CAN AND CONCRETE PAD TO BE REMOVED AND DISPOSED | |
| 11 GATE POST AND SIGNS TO REMAIN, PROTECT IN PLACE | |
| 12 MAINTENANCE ACCESS GATE AND SIGNS TO REMAIN, PROTECT IN PLACE | |

LEGEND

- CLEARING AND GRUBBING AREA
- (E) PAVEMENT STRIPING REMOVAL AREA
- SAW CUT (E) AC CURB
- (E) CHAIN AND BOLLARD FENCE
- (E) CHAIN LINK FENCE TO REMAIN, PROTECT IN PLACE
- (E) HIGH PRESSURE GAS LINE TO REMAIN, PROTECT IN PLACE
- (E) GROUNDWATER MONITORING WELL

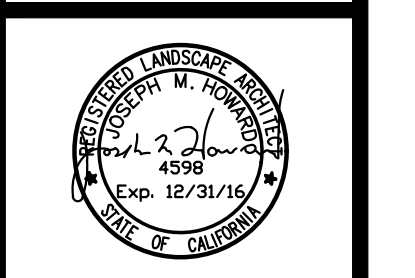
NOTE:

- FOR LOCATION OF TEMPORARY CONSTRUCTION FENCE, SEE SHEET C1.1



H.T. HARVEY & ASSOCIATES
Ecological Consultants

100% SUBMITTAL



GI.2

GENERAL NOTES:

- ALL CONSTRUCTION SHALL CONFORM TO THE CITY OF SACRAMENTO STANDARD SPECIFICATIONS, DATED JUNE 2007, AND ALL UPDATES, ADDENDUMS AND MEMORANDUMS TO THEM.
- TWO WORKING DAYS PRIOR TO PROJECT STAKING, THE CONTRACTOR SHALL SUBMIT TO THE CITY LANDSCAPE ARCHITECT A COMPLETED CONSTRUCTION STAKING REQUEST FORM.
- THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR FURNISHING, INSTALLING AND MAINTAINING ALL WARNING SIGNS AND DEVICES NECESSARY TO SAFEGUARD THE GENERAL PUBLIC AND THE WORK AND FOR PROVIDING PROPER AND SAFE ROUTING OF THE VEHICULAR AND PEDESTRIAN TRAFFIC DURING THE PERFORMANCE OF THE WORK. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND SHALL NOT BE LIMITED TO WORKING HOURS. THE USE OF FLAGGERS, BARRICADES AND CONSTRUCTION SIGNING SHALL COMPLY WITH THE CURRENT EDITION OF WORK AREA AND TRAFFIC CONTROL HANDBOOK (W.A.T.C.H.).
- THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE LOCATION OF ALL EXISTING UTILITIES AND PROTECTING AND REPAIRING DAMAGE TO EXISTING UTILITIES. THE CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT (1-800-642-2444) TWO WORKING DAYS PRIOR TO WORK COMMENCEMENT.
- THE CONTRACTOR SHALL MAINTAIN ALL EXISTING WATER, DRAINAGE AND SEWER FACILITIES WITHIN THE CONSTRUCTION AREA.
- DEMOLITION OF EXISTING FEATURES SHALL BE LIMITED TO THE ITEMS SHOWN ON THE PLANS AND DESCRIBED IN THE SPECIAL PROVISIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR AND/OR REPLACE ALL EXISTING FEATURES DAMAGED BY HIS OPERATIONS, AT THE CONTRACTOR'S EXPENSE.
- AT THE TIME THE CONTRACT IS AWARDED, THE CONTRACTOR SHALL POSSESS A CLASS "A" LICENSE, OR A COMBINATION OF CLASSES REQUIRED BY THE CATEGORIES AND CLASSES OF WORK INCLUDED IN THIS CONTRACT.
- DAMAGE TO EXISTING CURB, GUTTER AND SIDEWALK WHICH IS SHOWN ON THE PLANS TO REMAIN, SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL OBTAIN A PERMIT FROM THE DIVISION OF OCCUPATIONAL SAFETY & HEALTH (2424 ARDEN WAY SUITE 165, SACRAMENTO, CA PHONE 263-2800) PRIOR TO ANY TRENCHING EXCAVATION 5 FEET OR MORE IN DEPTH. A COPY OF THIS PERMIT SHALL BE AVAILABLE AT THE CONSTRUCTION SITE AT ALL TIMES.
- THE CONTRACTOR SHALL BE COMPLETELY RESPONSIBLE FOR PRESERVING ALL EXISTING MONUMENTS WHICH WILL BE DISTURBED OR REMOVED AS REQUIRED BY CONTRACTOR'S WORK. CONTRACTOR SHALL COORDINATE WITH ENGINEER/SURVEYOR PRIOR TO DISTURBANCE OF EXISTING MONUMENTS, AND SHALL RESET MONUMENTS OR PROVIDE PERMANENT WITNESS MONUMENTS AND FILE DOCUMENTATION WITH THE COUNTY SURVEYOR PURSUANT TO BUSINESS AND PROFESSIONS CODE SECTION 8771.
- THE CONTRACTOR, SUBCONTRACTOR OR SURVEYOR SHALL NOT CUT PERMANENT CROSSES INTO EXISTING CONCRETE CURBS, GUTTERS OR SIDEWALKS. THE CONTRACTOR SHALL BE ASSESSED AN ADMINISTRATIVE PENALTY OF \$500 FOR EACH CROSS THAT IS CUT PERMANENTLY INTO EXISTING CONCRETE CURBS, GUTTERS AND SIDEWALKS.
- ALL EXISTING TREES SHALL BE PRESERVED, AND SHALL BE FULLY PROTECTED FROM INJURY OR DAMAGE BY THE CONTRACTOR AT HIS EXPENSE. THE CONTRACTOR SHALL NOT ALLOW STAKING OF CONSTRUCTION MATERIALS OR PARKING OF EQUIPMENT AND VEHICLES WITHIN A TREE DRIP LINE.
- IF AMOUNTS OF BONE, STONE OR ARTIFACTS ARE UNCOVERED, WORK WITHIN 50 METERS OF THE AREA SHALL CEASE IMMEDIATELY AND A QUALIFIED ARCHEOLOGIST SHALL BE CONSULTED TO DEVELOP, IF NECESSARY, MITIGATION MEASURES TO REDUCE AND ARCHEOLOGICAL IMPACTS TO A LESS THAN SIGNIFICANT EFFECT BEFORE CONSTRUCTION RESUMES IN THE AREA.
- COST TO REMOVE AND REPLACE EXISTING PAVEMENT OVER THE WATER, STORM, AND SANITARY LINE TRENCHES SHALL BE INCLUDED IN THE PRICE BID FOR PIPE IN PLACE. REPLACEMENT SHALL BE 4" AC AND 12" AB, MINIMUM, OR AS INDICATED ON THE PLANS.
- AGGREGATE SUBBASE SHALL CONFORM TO CALTRANS SPECIFICATIONS DATED: JULY, 1992 A.B.S., SECTION 25.
- A STORM WATER PERMIT FROM STATE WATER RESOURCES CONTROL BOARD WILL BE OBTAINED BY THE CITY PRIOR TO CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR UPDATING THE STORMWATER POLLUTION PREVENTION PLAN. THE STATE WATER RESOURCES CONTROL BOARD, DIVISION OF WATER QUALITY, STORM WATER PERMIT UNIT, P.O. BOX 1977, SACRAMENTO, CA 95812-1977, SHALL BE CONTRACTED TO OBTAIN THE PERMIT PRIOR TO BEGINNING CONSTRUCTION.
- EVERY PERMIT ISSUED SHALL BECOME INVALID UNLESS THE WORK ON THE SITE AUTHORIZED BY SUCH PERMIT IS COMMENCED WITHIN 180 DAYS AFTER ITS ISSUANCE, OR IF THE WORK AUTHORIZED ON THE SITE BY SUCH PERMIT IS SUSPENDED OR ABANDONED FOR A PERIOD OF 180 DAYS AFTER THE TIME THE WORK IS COMMENCED. THE BUILDING OFFICIAL IS AUTHORIZED TO GRANT, IN WRITING, ONE OR MORE EXTENSIONS OF TIME, FOR PERIODS NOT MORE THAN 180 DAYS EACH. THE EXTENSION SHALL BE REQUESTED IN WRITING AND JUSTIFIABLE CAUSE DEMONSTRATED.
- THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE EXACT LOCATION OF ALL EXISTING UTILITIES AND FOR THE PROTECTION OF AND REPAIR OF DAMAGE TO THEM. THE CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT (1-800-642-2444), TWO (2) WORKING DAYS BEFORE WORK IS TO BEGIN.
- NOISE FROM CONSTRUCTION ACTIVITIES ARE EXEMPTED UNDER CITY CODE SECTION 8.68.080 EXEMPTIONS BETWEEN THE HOURS OF SEVEN A.M. AND SIX P.M., ON MONDAY, TUESDAY, WEDNESDAY, THURSDAY, FRIDAY AND SATURDAY, AND BETWEEN NINE A.M. AND SIX P.M. ON SUNDAY; PROVIDED, HOWEVER, THAT THE OPERATION OF AN INTERNAL COMBUSTION ENGINE SHALL NOT BE EXEMPT PURSUANT TO THIS SUBSECTION IF SUCH ENGINE IS NOT EQUIPPED WITH SUITABLE EXHAUST AND INTAKE SILENCERS WHICH ARE IN GOOD WORKING ORDER.
- THE PROJECT INCORPORATES THE CURRENT SACRAMENTO METROPOLITAN AIR QUALITY MANAGEMENT DISTRICTS RULES DURING CONSTRUCTION, SPECIFICALLY RULE 401 RINGELMANN CHART/OPACITY; RULE 402 NUISANCE; RULE 402 FUGITIVE DUST; AND, RULE 405 DUST AND CONDENSED FUMES.

DEMOLITION NOTES:

- CLEAR AND GRUB:** CONTRACTOR SHALL CLEAR AND GRUB ALL EXISTING VEGETATION, UNLESS OTHERWISE INDICATED, AS REQUIRED FOR THE SITE CONSTRUCTION, IRRIGATION, AND PLANTING OPERATIONS. LIMITS OF CLEARING SHALL BE REVIEWED WITH OWNER PRIOR TO COMMENCEMENT OF WORK. STRIP ALL ORGANIC MATTER TO A SUFFICIENT DEPTH TO COMPLETELY REMOVE SUCH MATERIAL.

CONTRACTOR SHALL REVIEW DEMOLITION, AND CLEARING AND GRUBBING REQUIREMENTS ON SITE WITH LANDSCAPE ARCHITECT PRIOR TO COMMENCING DEMOLITION OPERATIONS.

ALL DEMOLITION OPERATIONS WITHIN THE DRIP LINE OF TREES SHALL CONFORM TO GENERAL REQUIREMENTS.

EXISTING SITE FURNISHINGS AND IRRIGATION EQUIPMENT TO BE REMOVED SHALL BE RETURNED TO CITY OF SACRAMENTO, UNLESS OTHERWISE NOTED.
- IRRIGATION EQUIPMENT:** REMOVE ALL VISIBLE EXISTING IRRIGATION EQUIPMENT AND ANY BELOW-GRADE COMPONENTS THAT WOULD INTERFERE WITH THE WORK DURING TRENCHING AND/OR ROUGH GRADING OPERATIONS.
- SAWCUTTING:** ALL PAVEMENT AND CURB REMOVAL AS SHOWN ON THE PLAN SHALL BE ACCOMPLISHED BY SAWCUTTING.

SAWCUTS SHALL BE NEAT AND CLEAN AND SHALL PROVIDE A SMOOTH TRANSITION BETWEEN NEW AND EXISTING FEATURES.

CALTRANS STANDARD PLAN DATED 2010:

- A62A EXCAVATION AND BACKFILL MISCELLANEOUS DETAILS
- T51 TO T67 TEMPORARY POLLUTION CONTROL DETAILS

TREE PROTECTION NOTES:

- ALL TREE ROOTS REQUIRING PRUNING SHALL BE CUT CLEAN, AND THE TREE AFFECTED MAY REQUIRE SUPPLEMENTAL IRRIGATION/FERTILIZATION AND PRUNING AS A RESULT OF THE ROOT CUTTING.
- THE CONTRACTOR SHALL BE HELD LIABLE FOR ANY DAMAGE TO EXISTING TREES, I.E. TRUNK WOUNDS, BROKEN LIMBS, POURING OF ANY DELETERIOUS MATERIALS, OR CONCRETE WASHOUT UNDER THE DRIPLINE OF THE TREES. DAMAGES WILL BE ASSESSED USING THE "GUIDE TO PLANT APPRAISAL," 9TH EDITION, PUBLISHED BY THE INTERNATIONAL SOCIETY OF ARBORICULTURE. AN APPRAISAL REPORT SHALL BE SUBMITTED FOR REVIEW BY THE CITY ARBORIST.
- SUPPLEMENTAL IRRIGATION WILL BE REQUIRED FOR TREES ON AND ADJACENT TO THE PROJECT SITE WHERE THE IRRIGATION HAS BEEN TURNED OFF OR MODIFIED BECAUSE OF CONSTRUCTION ACTIVITIES.
- ALL TREES TO BE PRESERVED AND PROTECTION METHODS NOTED ABOVE SHALL BE IDENTIFIED ON CONSTRUCTION PLANS FOR THIS PROJECT.
- TREES TO BE PRESERVED SHALL BE MAINTAINED IN A SAFE AND HEALTHY STATE AND SHALL BE IRRIGATED, FERTILIZED, OR OTHERWISE TREATED AS NECESSARY PER CITY ARBORIST'S RECOMMENDATIONS.

GRADING NOTES

- GRADING: ALL PROPOSED PAVING, CURBS WALLS, AND PLANTING AREAS SHALL SMOOTHLY CONFORM TO EXISTING ADJACENT FEATURES TO REMAIN. PROVIDE POSITIVE DRAINAGE ON ALL PAVING AND THROUGHOUT ALL PLANTING AREAS. CONTRACTOR SHALL FLOOD PAVED AREAS UPON COMPLETION AND RECONSTRUCT ANY LOW SPOTS AS DIRECTED. SLOPE PAVING 4.9% MAXIMUM WITH A CROSS SLOPE OF 1% MINIMUM TO 2% MAXIMUM.
- GRADING: CONTRACTOR SHALL PERFORM ALL EARTHWORK AND GRADING PER GEOTECHNICAL ENGINEER'S RECOMMENDATIONS.
- LANDFILL CAP: TRENCHES SHALL TYPICALLY REQUIRE GCL LINING PER DETAIL 5 SHEET 24. GAS CUT-OFF BARRIERS EVERY 50 FEET, DETAIL 7 SHEET 24.
- TRENCH LINING: PORTIONS OF THE SITE CONSISTS OF EXISTING ASPHALT PAVEMENT THAT SERVES AS THE LANDFILL CAP. THE REFUSE LAYER VARIES IN DEPTH ACROSS THE SITE. IN ORDER TO PREVENT WATER FROM ENTERING THE LANDFILL REFUSE, ALL PENETRATION OF THIS CAP AS REQUIRED TO PERFORM THE WORK SHOWN SHALL BE RESEALED AS SPECIFIED AND DETAILED. NO TRENCH SHALL BE LEFT OPEN DURING STORM EVENTS. CONTRACTOR SHALL EXERCISE EXTREME CARE TO AVOID ACCIDENTAL PENETRATIONS OF THIS BARRIER AND SHALL REPAIR THE SAME TO THE SATISFACTION OF THE ENGINEER AT NO ADDITIONAL COST TO THE CITY.
- HORIZONTAL AND VERTICAL CONTROL: THE BASIS OF BEARINGS AND COORDINATES FOR THIS AERIAL SURVEY IS THE CALIFORNIA COORDINATES SYSTEM, NAD83, ZONE 2, U.S. FEET. VERTICAL DATUM IS NGVD 1929 U.S. FEET. THE HORIZONTAL AND VERTICAL DATUM IS BASED ON FOUND MONUMENTS SET BY THE U.S. ARMY CORPS OF ENGINEERS, SACRAMENTO DISTRICT, FOR THE AMERICAN RIVER PROJECT I, DATED 3/12/2002.

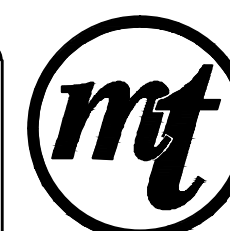
NOTE: THESE NOTES ARE ADAPTED FROM CITY STANDARD NOTES, AT THE CITY'S DIRECTION.



SITE COSTRUCTION NOTES

- DIMENSIONS: ALL WRITTEN DIMENSIONS SUPERSEDE SCALED DIMENSIONS.
- SLEEVING: REFER TO IRRIGATION PLAN FOR REQUIREMENTS FOR SLEEVING UNDER PAVEMENT.
- PROJECT STAKING: ALL PROPOSED SITE FEATURES SHALL BE STAKED IN FIELD FOR REVIEW BY THE CITY PARK INSPECTOR PRIOR TO CONSTRUCTION. ALL CURVES SHALL BE SMOOTH AND CONTINUOUS WITH CAREFULLY MATCHED TANGENTS.

ALL NORTHINGS AND EASTINGS INDICATED ON THESE PLANS ARE SHOWN WITH 3 COMMON DIGITS REMOVED:
ALL NORTHINGS SHOULD BEGIN WITH THE COMMON DIGITS 197...
ALL EASTINGS SHOULD BEGIN WITH THE COMMON DIGITS 671...
- EXISTING CONDITIONS: ALL EXISTING CONDITIONS SUCH AS CONTOURS, SITE FEATURES, AND ROAD ALIGNMENT ARE SHOWN SCREENED ON PLAN.
- HORIZONTAL AND VERTICAL CONTROL: SEE DEMOLITION, GRADING AND DRAINAGE NOTES FOR DESCRIPTIONS.



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SACRAMENTO, CALIFORNIA 95826
(916) 381-9100 FAX: (916) 381-9180

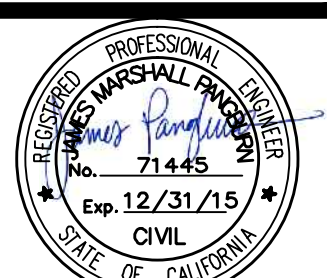
100% SUBMITTAL

CITY OF SACRAMENTO
DEPARTMENT OF PARKS & RECREATION
PARK, PLANNING & DEVELOPMENT SERVICES
LANDSCAPE ARCHITECTURE SECTION
915 I STREET, FLOOR 5, SACRAMENTO, CA 95814



AMERICAN RIVER PARKWAY ENHANCEMENTS
AT SUTTER'S LANDING PARK
GENERAL NOTES

PROFESSIONAL ENGINEER:
J. PANGBURN
DESIGN BY/DRAWN BY:
J. BYGOYTIA
CAD FILE:
SL_GI.3.DWG
DATE: 06/25/2015
SCALE:
P. N.: LI9-1672-00
REVISIONS
10/15/2015



GI.3

SHEET NO.
4 OF 36

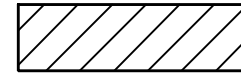


AMERICAN RIVER PARKWAY ENHANCEMENTS AT SUTTER'S LANDING PARK (LI9-1672-00)

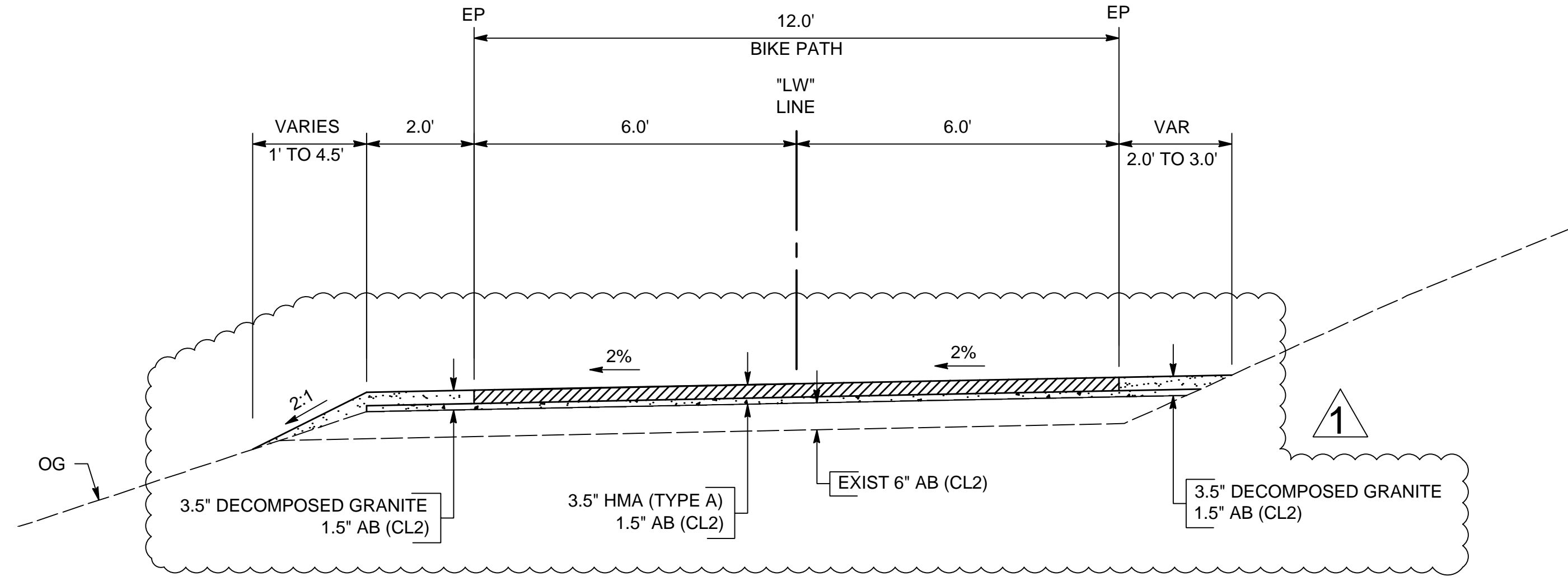
GENERAL NOTES

1. DIMENSIONS OF THE STRUCTURAL SECTIONS ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
2. SUPERELEVATION AS SHOWN OR AS DIRECTED BY THE CITY LANDSCAPE ARCHITECT.
3. STRUCTURAL SECTIONS ARE SUBJECT TO TOLERANCES AS SPECIFIED IN THE STANDARD SPECIFICATIONS AND THE SPECIAL PROVISIONS.
4. PAVEMENT SECTION BASED ON A TI OF 6.0 AND AN R VALUE OF 73.
5. SEE LAYOUT SHEETS C1.1 - C1.2 FOR BEGINNING AND END OF TYPICAL DECOMPOSED GRANITE SHOULDERS.pj
- 6.

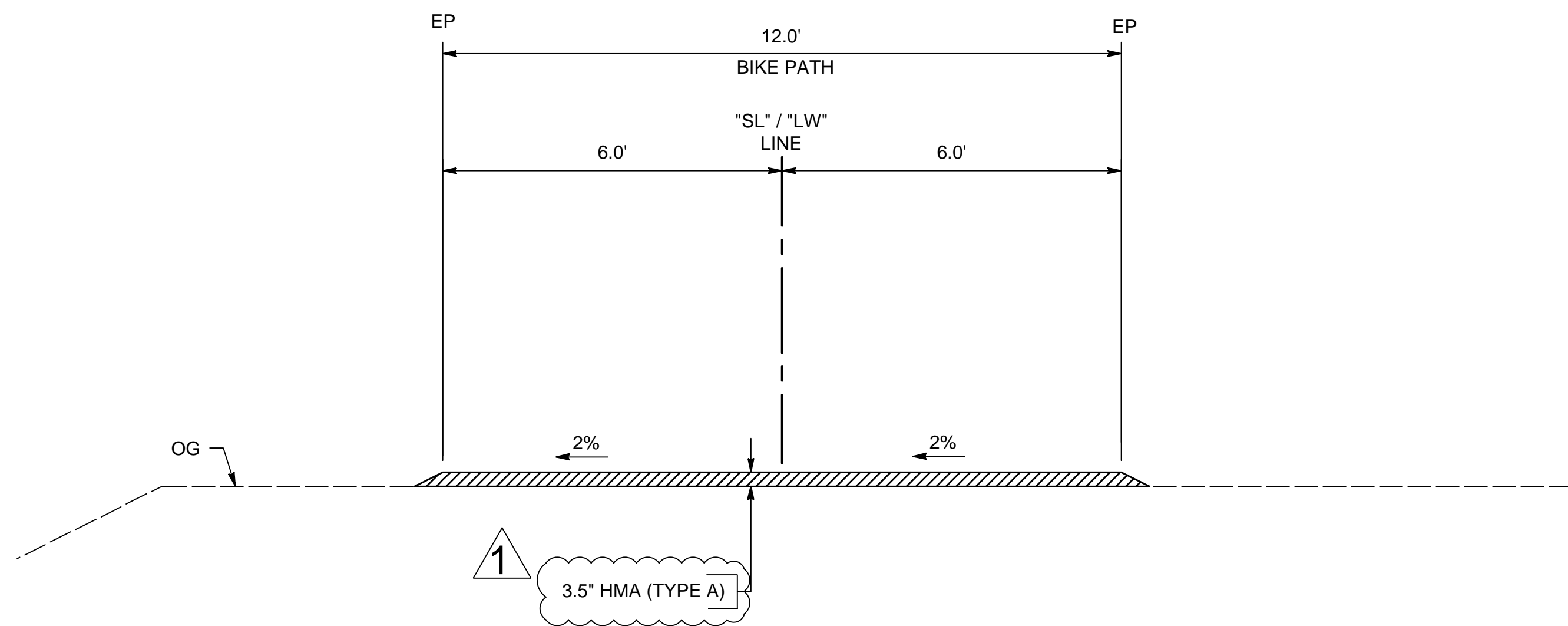


LEGEND

-  HMA (TYPE A)
-  AB (CL2)
-  DECOMPOSED GRANITE



"LW" 100+94.10 TO 132+95.76
MULTI-USE TRAIL (SLOPE AND LEVEE TOE)



"SL" 10+05.00 TO 11+94.73
"LW" 100+59.10 TO 100+94.10
MULTI-USE TRAIL (LEVEE CROWN)

PROFESSIONAL ENGINEER:
J. PANGBURN
DESIGN BY/DRAWN BY:
J. BYGOYTIA
CAD FILE:
SL_CI.0.DWG
DATE: 06/25/2015
SCALE: NO SCALE
P. N.: LI9-1672-00
REVISIONS
10/15/2015

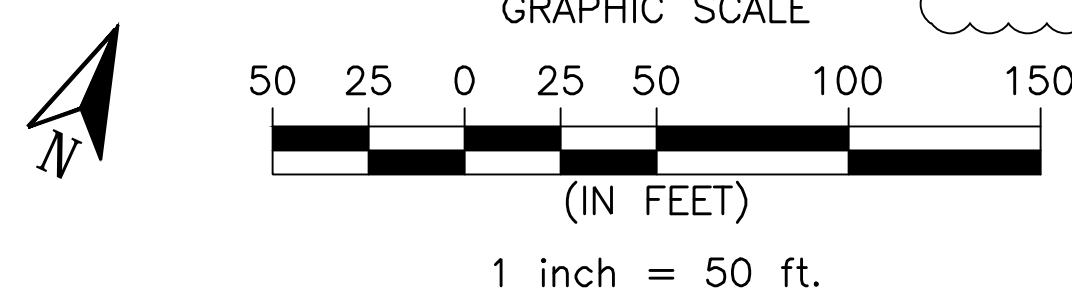
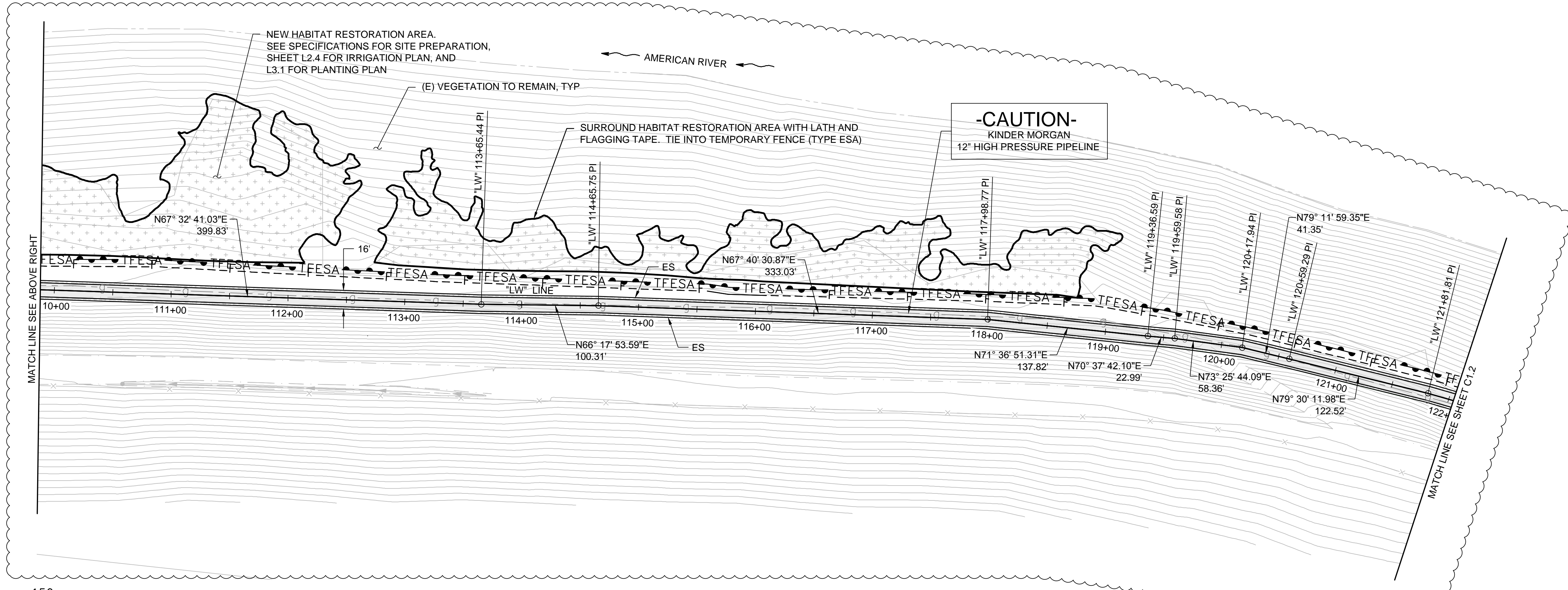
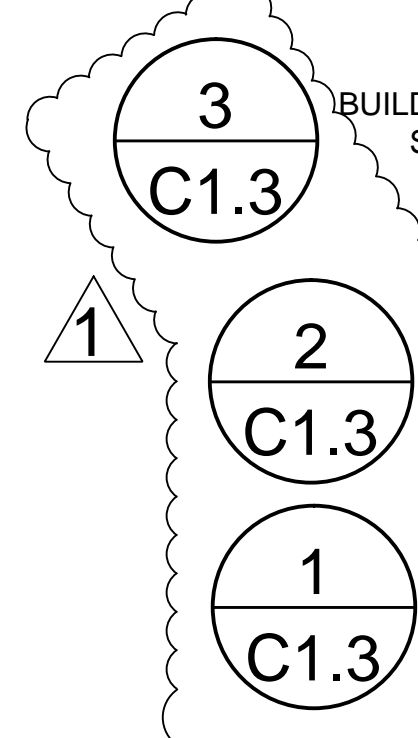
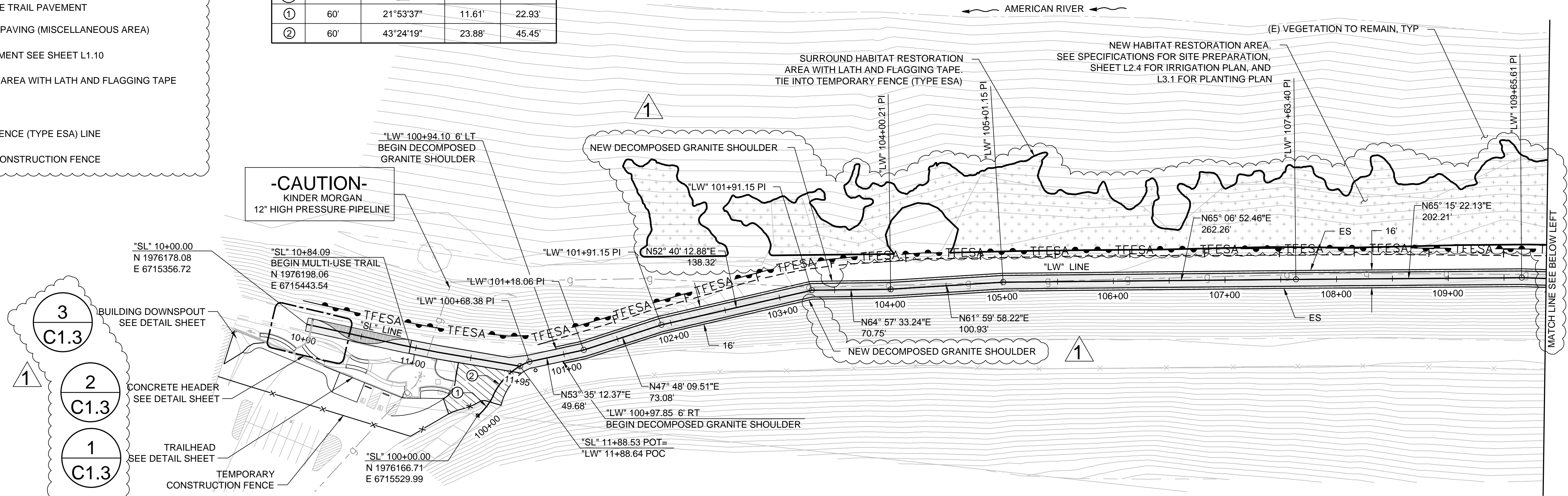


LEGEND

-  NEW MULTI-USE TRAIL PAVEMENT
-  NEW ASPHALT PAVING (MISCELLANEOUS AREA)
-  SPECIAL PAVEMENT SEE SHEET L1.10
-  RESTORATION AREA WITH LATH AND FLAGGING TAPE
-  FILL LINE
-  TFESA - TEMPORARY FENCE (TYPE ESA) LINE
-  TEMPORARY CONSTRUCTION FENCE

CURVE DATA

No.	R	Δ	T	L
①	60'	21°53'37"	11.61'	22.93'
②	60'	43°24'19"	23.88'	45.45'



MARK THOMAS & COMPANY
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100% SUBMITTAL

CITY OF SACRAMENTO
DEPARTMENT OF PARKS & RECREATION
 PARK, PLANNING & DEVELOPMENT SERVICES
 LANDSCAPE ARCHITECTURE SECTION
 915 I STREET, FLOOR 5, SACRAMENTO, CA 95814

AMERICAN RIVER PARKWAY ENHANCEMENTS AT SUTTER'S LANDING PARK

LAYOUT

PROFESSIONAL ENGINEER: J. PANGBURN
 DESIGN BY/DRAWN BY: J. BYGOYTIA
 CAD FILE: SL.CI.1-CI.3.DWG
 DATE: 06/25/2015
 SCALE: AS SHOWN
 P. N.: LI9-1672-00
 REVISIONS: 10/15/2015



CI.1

SHEET NO. 6 OF 36

AMERICAN RIVER PARKWAY ENHANCEMENTS AT SUTTER'S LANDING PARK (LI9-1672-00)

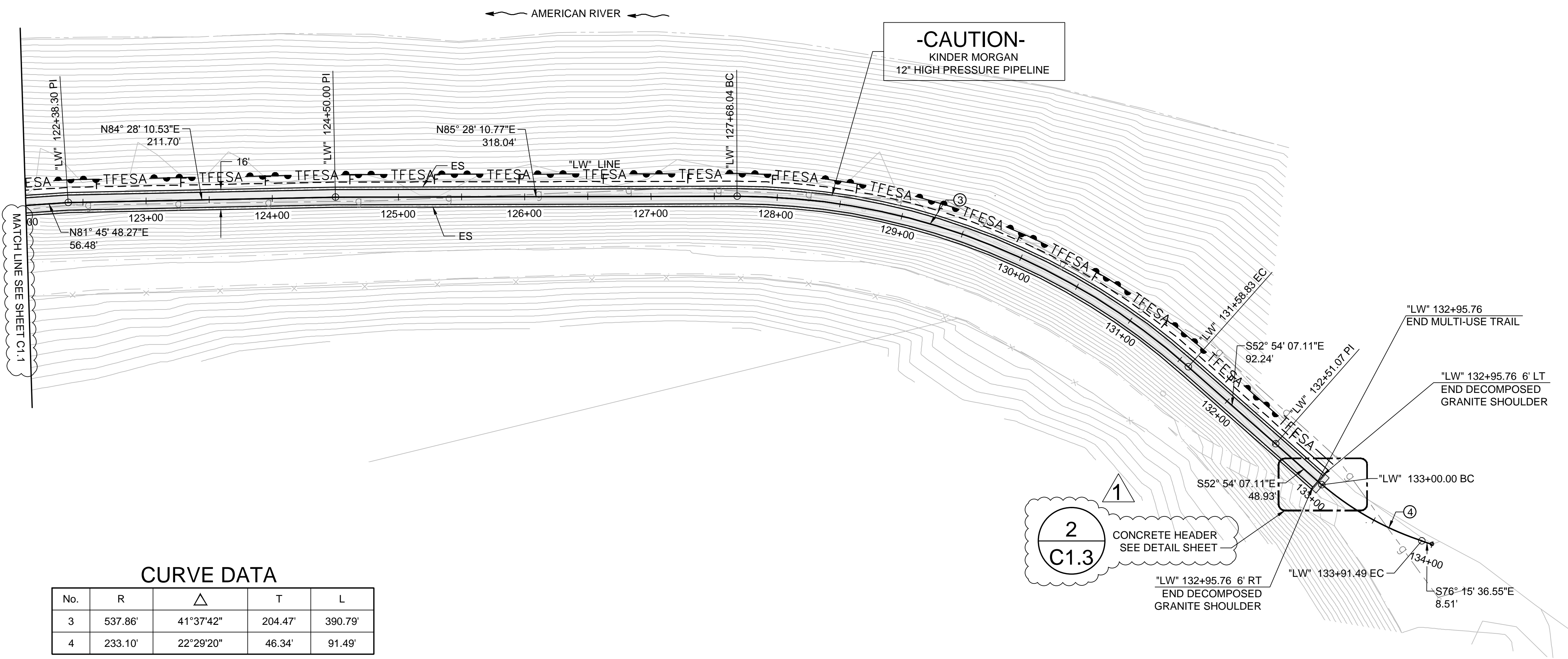


LAYOUT

PROFESSIONAL ENGINEER:
 J. PANGBURN
 DESIGN BY/DRAWN BY:
 J. BYGOYTIA
 CAD FILE:
 SL_C1.1-C1.3.DWG
 DATE: 06/25/2015
 SCALE: AS SHOWN
 P. N.: L19-1672-00
 REVISIONS
 10/15/2015

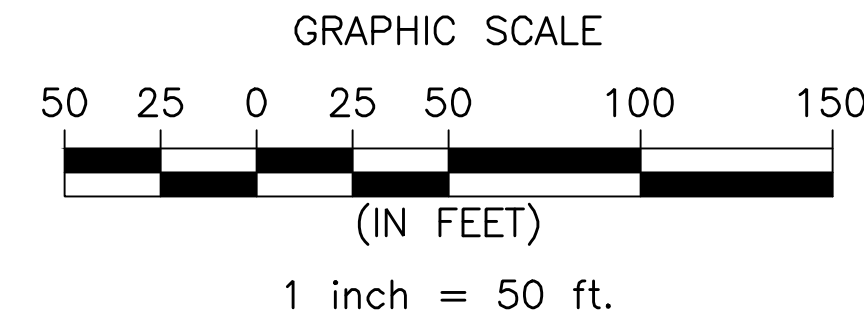


C1.2
 SHEET NO.
7 OF 36



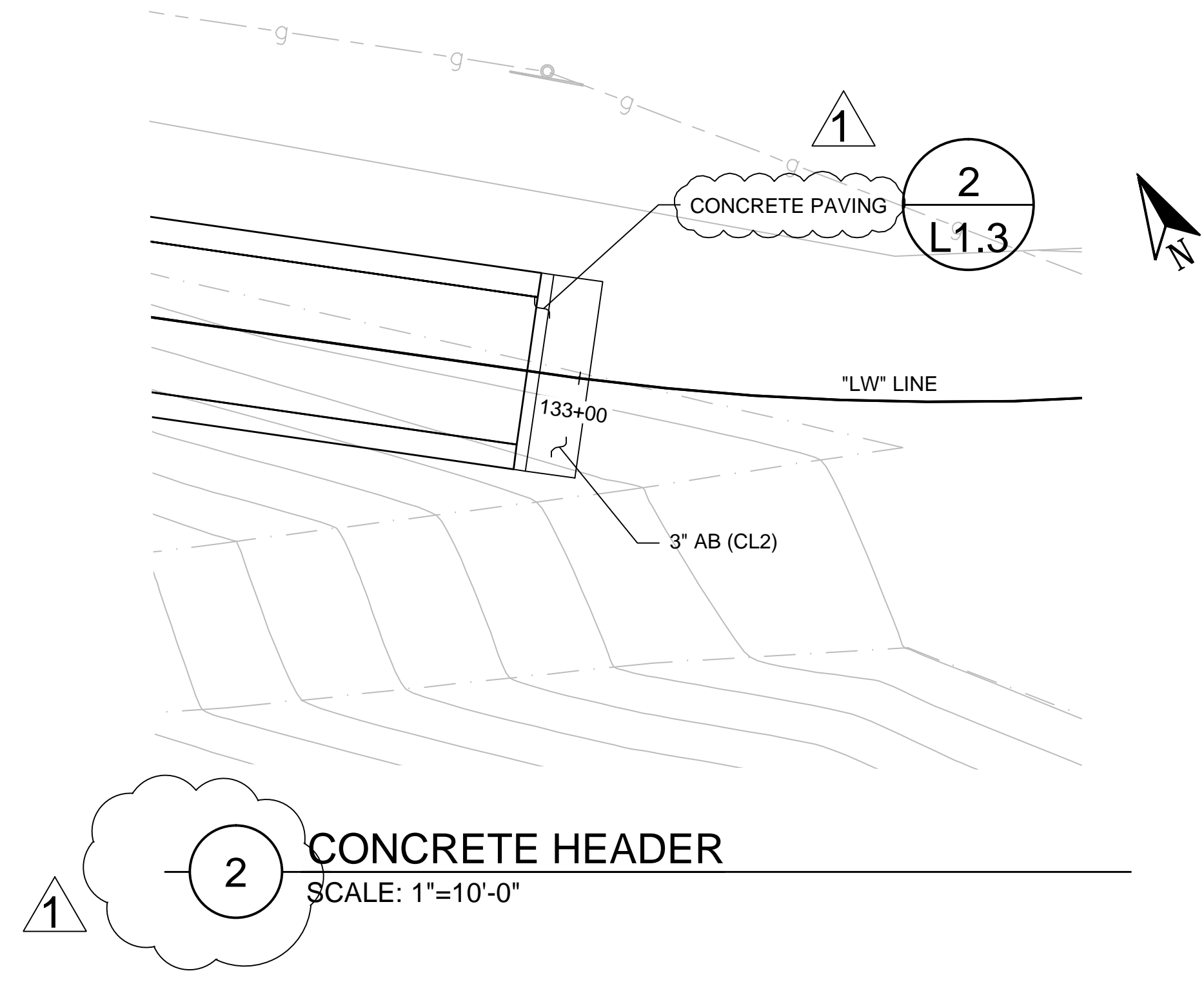
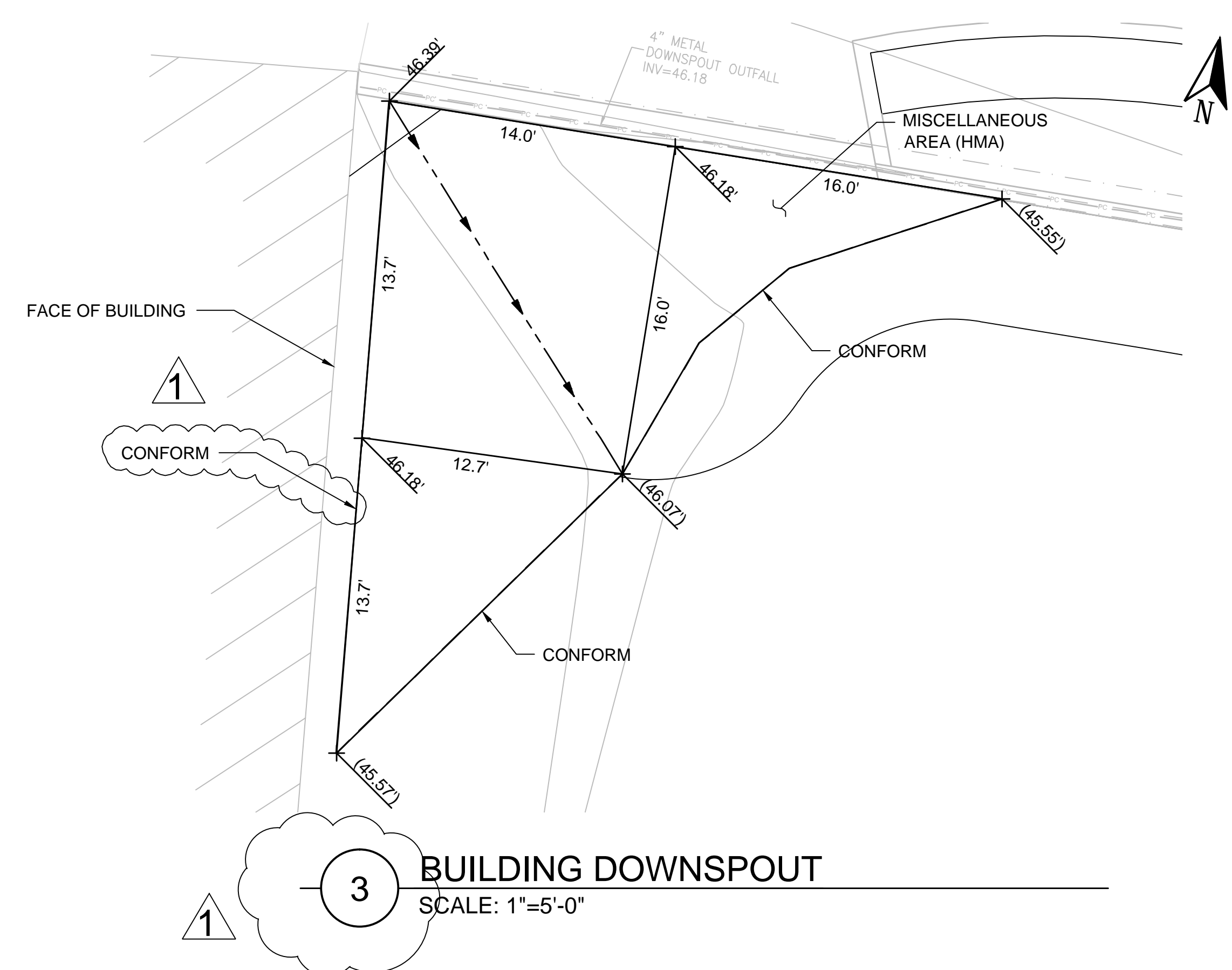
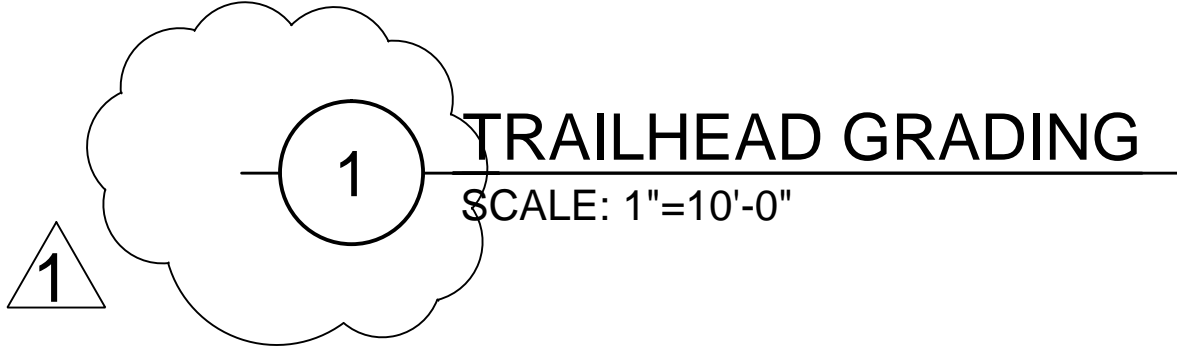
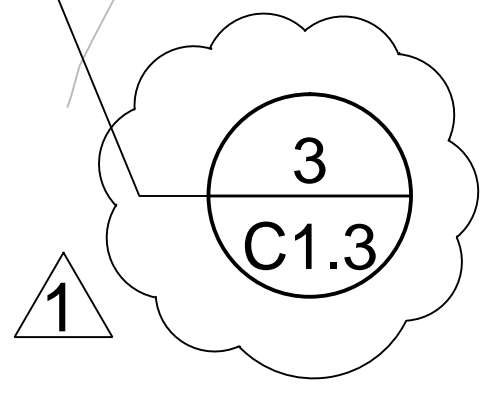
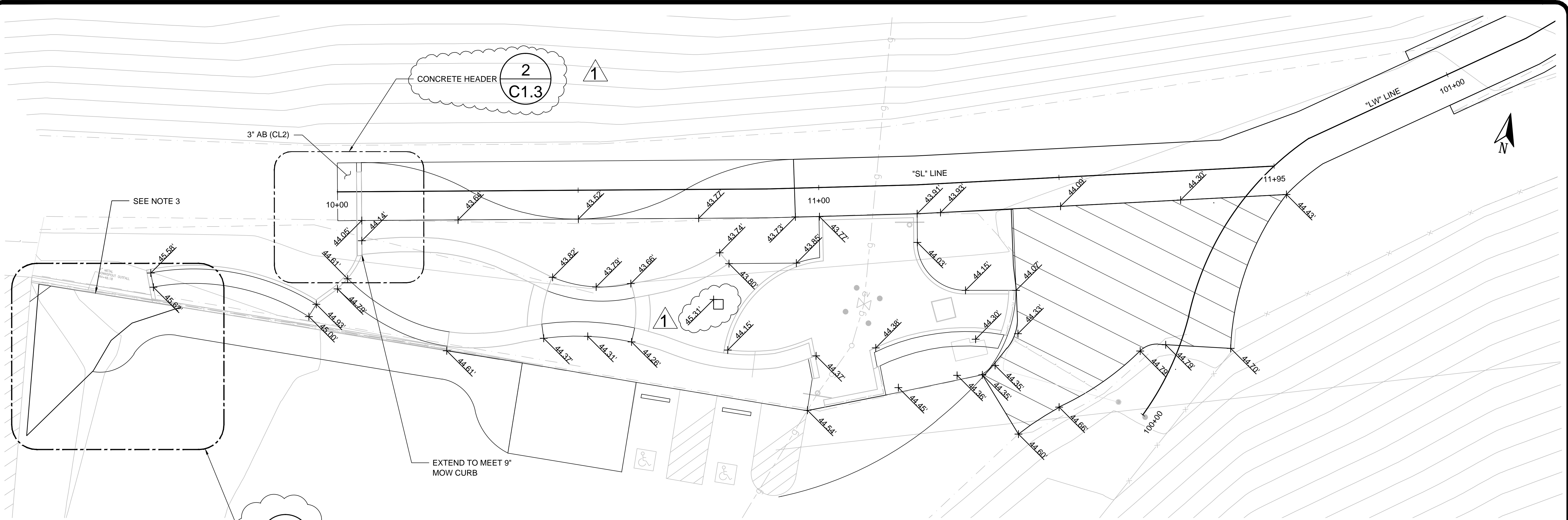
CURVE DATA

No.	R	Δ	T	L
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4	233.10'	22°29'20"	46.34'	91.49'

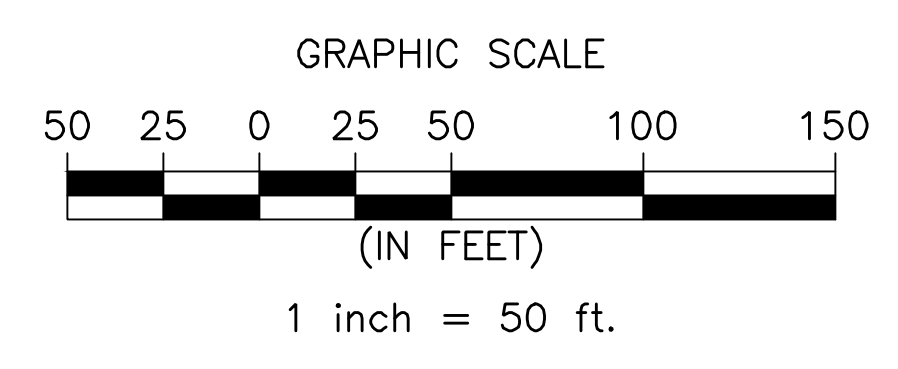


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- NOTES:**
1. CONTRACTOR SHALL VERIFY EXISTING ELEVATIONS PRIOR TO CONSTRUCTION. IF THERE IS A DISCREPANCY BETWEEN EXISTING ELEVATIONS SHOWN ON THESE PLANS AND ACTUAL ELEVATIONS, INFORM THE LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION IN THAT AREA.
 2. () DENOTES AN EXISTING ELEVATION
 3. NEW ASPHALT CONCRETE (HMA) ADDED IN PARKING LOT TO BE PLACED OVER EXISTING PAVEMENT. NO EXCAVATING, GRINDING OR ANY OTHER TYPE OF DEMOLITION OF EXISTING ASPHALT PAVING WILL BE ALLOWED.



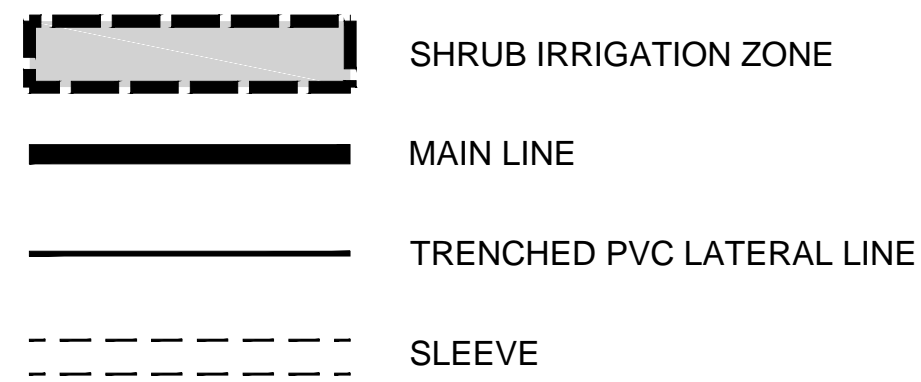
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PROFESSIONAL ENGINEER:	J. PANGBURN
DESIGN BY/DRAWN BY:	J. BYGOYTIA
CAD FILE:	SL_CI.4.DWG
DATE:	06/25/2015
SCALE:	AS SHOWN
P. N.:	L19-1672-00
REVISIONS	10/15/2015

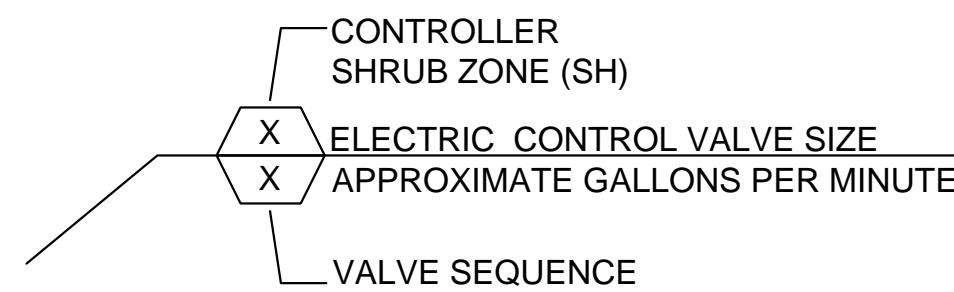


TRAILHEAD IRRIGATION LEGEND



SYMBOL MANUFACTURER MODEL NO. DESCRIPTION

[M]	SEE SPECIFICATIONS		WATER TAP AND METER
[C]	HUNTER	PC-400	ELECTRIC AUTOMATIC CONTROLLER WITH HEAVY-DUTY STAINLESS STEEL ENCLOSURE
[S]	PER APPROVED UTILITIES DEPT. LIST, SEE SECTION 10-49 OF THE STANDARD SPECIFICATIONS		BACKFLOW PREVENTION ASSEMBLY
[V]	HUNTER	IBV	ELECTRIC CONTROL VALVE
[D]	HUNTER	HQ-5RC	QUICK COUPLING VALVE
[B]	HUNTER	PCB-25	LOW-FLOW SHRUB BUBBLER



IRRIGATION NOTES

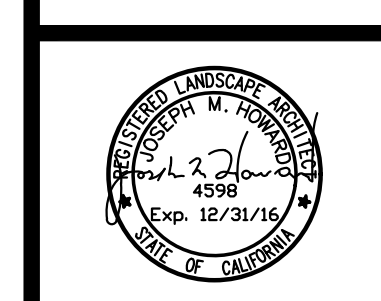


- SPECIFICATIONS:** SEE IRRIGATION SPECIFICATIONS FOR ADDITIONAL INFORMATION. THE DRAWINGS HAVE BEEN PREPARED IN COMBINATION WITH A WRITTEN TECHNICAL SPECIFICATIONS. CONTRACTOR SHALL BE FAMILIAR WITH THESE DRAWINGS AND THE ASSOCIATED TECHNICAL SPECIFICATIONS BEFORE BEGINNING WORK.
- VERIFICATION:** THE IRRIGATION SYSTEM DESIGN IS BASED ON A STATIC WATER PRESSURE OF 40 PSI AT THE POINT OF CONNECTION. IRRIGATION MAXIMUM DEMAND IS 14 GPM. THE IRRIGATION CONTRACTOR SHALL VERIFY WATER PRESSURE PRIOR TO IRRIGATION SYSTEM INSTALLATION. ANY DIFFERENCES BETWEEN THE WATER PRESSURE INDICATED ABOVE AND THE ACTUAL PRESSURE READING AT THE POINT OF CONNECTION SHALL BE REPORTED TO THE PROJECT LANDSCAPE ARCHITECT, IF SUCH DATA ADVERSELY AFFECTS THE OPERATION OF THE SYSTEM. SUCH NOTICE SHALL BE MADE IN WRITING AND PRIOR TO COMMENCING ANY IRRIGATION WORK. CONTRACTOR SHALL AWAIT RECEIPT OF WRITTEN INSTRUCTIONS FROM THE PROJECT LANDSCAPE ARCHITECT PRIOR TO PROCEEDING WITH CONSTRUCTION OF THE IRRIGATION SYSTEM.
- UTILITIES:** CONTRACTOR SHALL VERIFY LOCATION OF ALL ON-SITE UTILITIES. RESTORATION OF DAMAGED UTILITIES SHALL BE MADE AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE PROJECT LANDSCAPE ARCHITECT.
- SCHEMATIC:** SYSTEM FEATURES ARE SHOWN SCHEMATICALLY FOR GRAPHIC CLARITY. THE LOCATION OF THE POINT OF CONNECTION, ALL PIPING, VALVES, ETC. ARE DIAGRAMMATIC. EQUIPMENT SHOWN WITHIN ROADS OR PAVED AREAS IS FOR DESIGN CLARIFICATION ONLY. AVOID ANY CONFLICT BETWEEN THE IRRIGATION SYSTEM, PLANTING, UTILITIES, EXISTING PAVING, AND ARCHITECTURAL OR ENGINEERING FEATURES. INSTALL ALL PIPING AND VALVES IN COMMON TRENCHES WHERE FEASIBLE AND INSIDE PLANTING AREAS WHENEVER POSSIBLE. ALL VALVES SHALL BE LOCATED IN GROUND COVER OR SHRUB AREAS WHENEVER POSSIBLE.
- CODES:** IRRIGATION SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH ALL LOCAL CODES AND MANUFACTURER'S SPECIFICATIONS. NOTIFY PROJECT LANDSCAPE ARCHITECT BY TELEPHONE AND IN WRITING OF ANY CONFLICTS PRIOR TO INSTALLATION.
- DUE TO THE SCALE OF THE DRAWINGS, IT IS NOT POSSIBLE TO INDICATE ALL OFFSETS, FITTINGS, SLEEVES, ETC., THAT MAY BE REQUIRED. THE CONTRACTOR SHALL CAREFULLY INVESTIGATE THE STRUCTURAL AND FINISHED CONDITIONS AFFECTING ALL OF THE WORK AND PLAN ACCORDINGLY, AND SHALL FURNISH MATERIAL REQUIRED TO MEET SUCH CONDITIONS.
- SLEEVING:** CONTRACTOR SHALL ADEQUATELY SIZE ALL SLEEVES SHOWN ON PLAN. SLEEVES SHALL BE INSTALLED AT THE NECESSARY DEPTHS PRIOR TO PAVEMENT CONSTRUCTION. SLEEVING SHALL EXTEND 1'-0" FROM EDGE OF PAVEMENT INTO PLANTING AREA AND SHALL HAVE ENDS CLEARLY MARKED AT GRADE.
- QUICK COUPLING VALVES:** INSTALL ON TRIPLE SWING JOINT. LOCATE 1'-0" AWAY FROM EDGE OF WALKS, WALLS, CURBS, AND HEADERBOARDS WITHIN PLANTING AREAS. PROVIDE CITY OF SACRAMENTO WITH ONE OPERATING KEY, TWO SETS OF LOCKING COVER KEYS, AND ONE SWIVEL HOSE ELL.
- HEAD ALLOWANCE:** CONTRACTOR SHALL ALLOW IN BID PRICE AN AMOUNT SUFFICIENT TO PROVIDE AND INSTALL AN ADDITIONAL FIVE(5) BUBBLERS OF EACH TYPE SPECIFIED ON PLAN TO ACCOMMODATE FIELD CHANGES. THESE HEADS SHALL BE LOCATED AS DIRECTED BY THE PROJECT LANDSCAPE ARCHITECT. CONTRACTOR SHALL DELIVER TO THE CITY OF SACRAMENTO ANY UNUSED ADDITIONAL HEADS AT THE END OF THE MAINTENANCE PERIOD.
- CONTRACTOR TO INSTALL IRRIGATION CONTROL WIRES FROM THE IRRIGATION CONTROLLER TO A NEW VALVE BOX WITH LOCKABLE LID AND LABELED "SP." CONTROL WIRE SHALL BE IN DIFFERENT COLORS AND COILED AS SHOWN IN THE DRAWINGS. CONTRACTOR SHALL INSTALL IRRIGATION CONTROL WIRES IN MAIN LINE TRENCH WHERE POSSIBLE.
- IT IS THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO FAMILIARIZE THEMSELVES WITH ALL GRADE DIFFERENCES, LOCATIONS OF WALLS, RETAINING WALLS, PAVING, ETC. CONTRACTOR SHALL COORDINATE WORK TO BE DONE WITH THE GENERAL CONTRACTOR AND OTHER SUBCONTRACTORS FOR THE LOCATION AND INSTALLATION OF SLEEVES THROUGH WALLS, UNDER PAVING, STRUCTURES, ETC.
- CONTRACTOR SHALL NOT WILLFULLY INSTALL THE IRRIGATION SYSTEMS AS SHOWN ON THE DRAWINGS WHEN IT IS OBVIOUS IN THE FIELD THAT OBSTRUCTIONS, GRADE DIFFERENCES, OR DIFFERENCES IN THE AREA DIMENSIONS EXIST. SUCH OBSTRUCTIONS, OR DIFFERENCES SHALL BE BROUGHT TO THE ATTENTION OF THE PROJECT LANDSCAPE ARCHITECT. IN THE EVENT THAT THIS NOTIFICATION IS NOT PERFORMED, THE IRRIGATION CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY REVISIONS NECESSARY.
- SHOULD THE EXISTING MAIN LINE BREAK OR BE SHUT OFF FOR ANY REASON DURING THE COURSE OF CONSTRUCTION, THE CONTRACTOR SHALL HAND WATER ALL TREES, SHRUBS, TURF, AND GROUND COVER THE EXISTING IRRIGATION SYSTEM WATERS. THE CONTRACTOR SHALL CONTINUE TO DO SO UNTIL THE IRRIGATION SYSTEM IS OPERABLE.
- CONTRACTOR SHALL TEST EXISTING IRRIGATION SYSTEM TO VERIFY AVAILABLE PRESSURE AND TO DETERMINE IF REPAIRS ARE NEEDED.
- TRENCHING:** CONTRACTOR SHALL COMPLY WITH GEOCON CONSULTANTS INC WORK PLAN PREPARED FOR JOHN LEWIS AT THE COUNTY OF SACRAMENTO ENVIRONMENTAL COMPLIANCE DIVISION.

CITY OF SACRAMENTO
DEPARTMENT OF PARKS & RECREATION
PARK, PLANNING & DEVELOPMENT SERVICES
LANDSCAPE ARCHITECTURE SECTION
915 I STREET, FLOOR 5, SACRAMENTO, CA 95814

AMERICAN RIVER PARKWAY ENHANCEMENTS
AT SUTTER'S LANDING PARK
IRRIGATION NOTES AND LEGEND

LANDSCAPE ARCHITECT:
JMH
DESIGN BY/DRAWN BY:
LK / KV / SVL / CJ
CAD FILE:
FILE.DWG
DATE: 06/25/2015
SCALE: NO SCALE
P. N.: L19-1672-00
REVISIONS
1022/2015



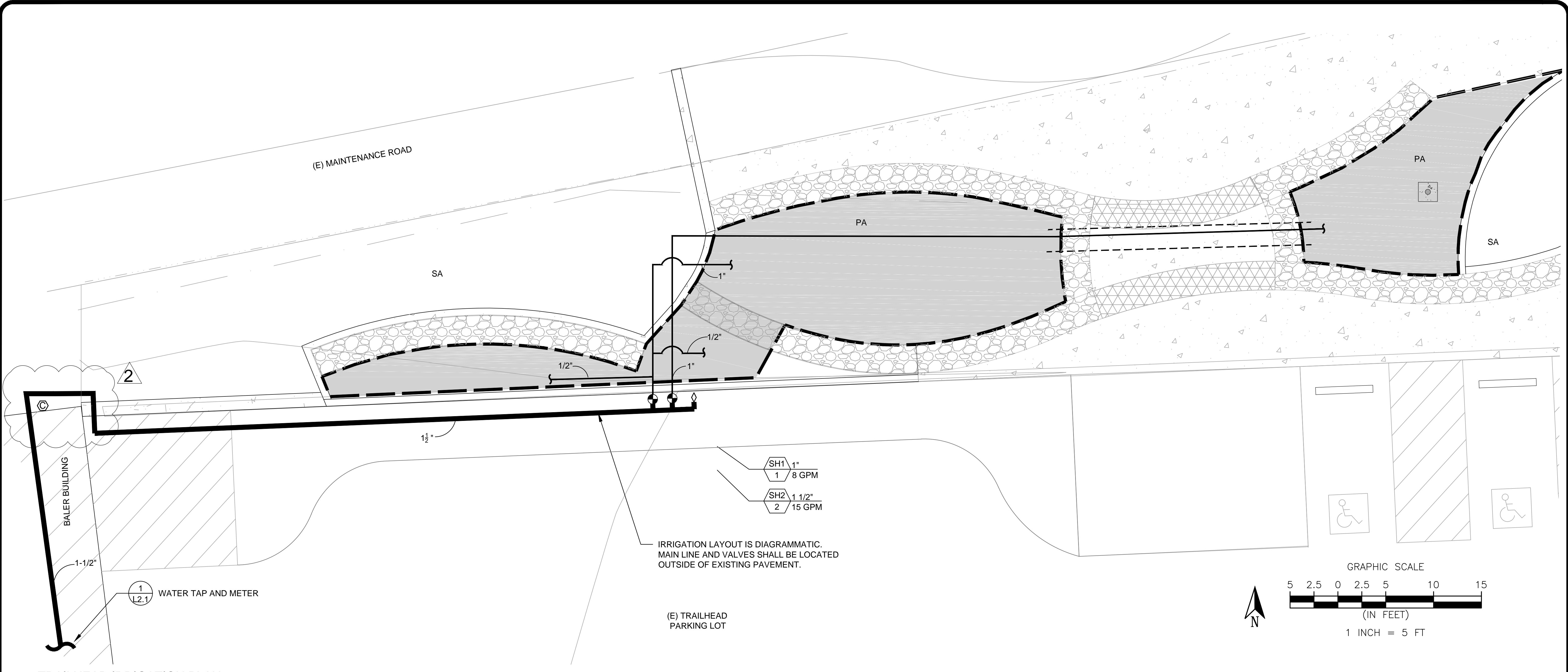
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SHEET NO. 1
26 OF 36

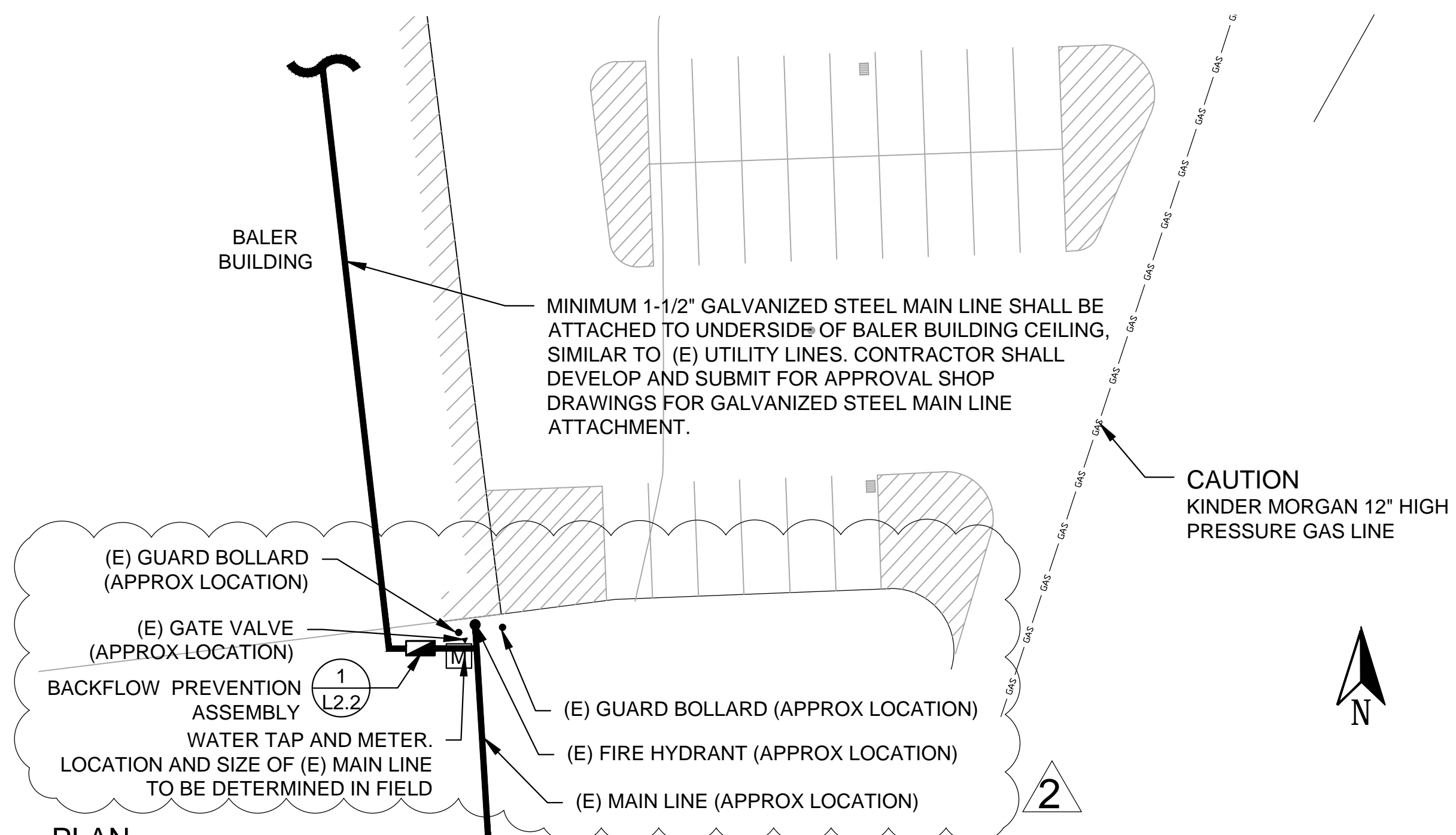


H.T. HARVEY & ASSOCIATES
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TRAILHEAD IRRIGATION PLAN



PLAN

1 WATER TAP AND METER

SCALE: 1" = 20'-0"

NOTES

1. CITY CREWS TO TAP EXISTING WATER MAIN AND INSTALL A 1-1/2" IRRIGATION WATER SERVICE TAP FOR A FEE OF \$1,552.00.
2. CITY TO PROVIDE AND INSTALL 1-1/2" IRRIGATION METER AFTER PAYMENT OF METER FEE OF \$648.00 AND DEVELOPMENT FEE OF \$ 5,541.58.
3. CONTRACTOR TO EXPOSE MAIN FOR CITY TO INSTALL TAP, BACKFILL AND RESTORE SURFACE AS NECESSARY.
4. CONTRACTOR TO PROVIDE AND INSTALL APPROVED BACKFLOW PREVENTION ASSEMBLY PER DETAIL 1/L2.2 .

LEGEND

- CONCRETE PAVING
- GABION WALL
- PA PLANTING AREA
- SA SEEDING AREA
- IRRIGATION ZONE
- MAIN LINE
- TRENCHED PVC LATERAL LINE
- (E) GROUNDWATER MONITORING WELL (LOCATION APPROX)
- SLEEVE



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CITY OF SACRAMENTO
DEPARTMENT OF PARKS & RECREATION
PARK, PLANNING & DEVELOPMENT SERVICES
LANDSCAPE ARCHITECTURE SECTION
915 I STREET, FLOOR 5, SACRAMENTO, CA 95814



AMERICAN RIVER PARKWAY ENHANCEMENTS
AT SUTTER'S LANDING PARK
TRAILHEAD
IRRIGATION PLAN

LANDSCAPE ARCHITECT:
JMH

DESIGN BY/DRAWN BY:
LK / KV / SVL / C.J.

CAD FILE:
FILE.DWG

DATE: 06/25/2015

SCALE: SEE SHEET

P. N.: LI19-1672-00

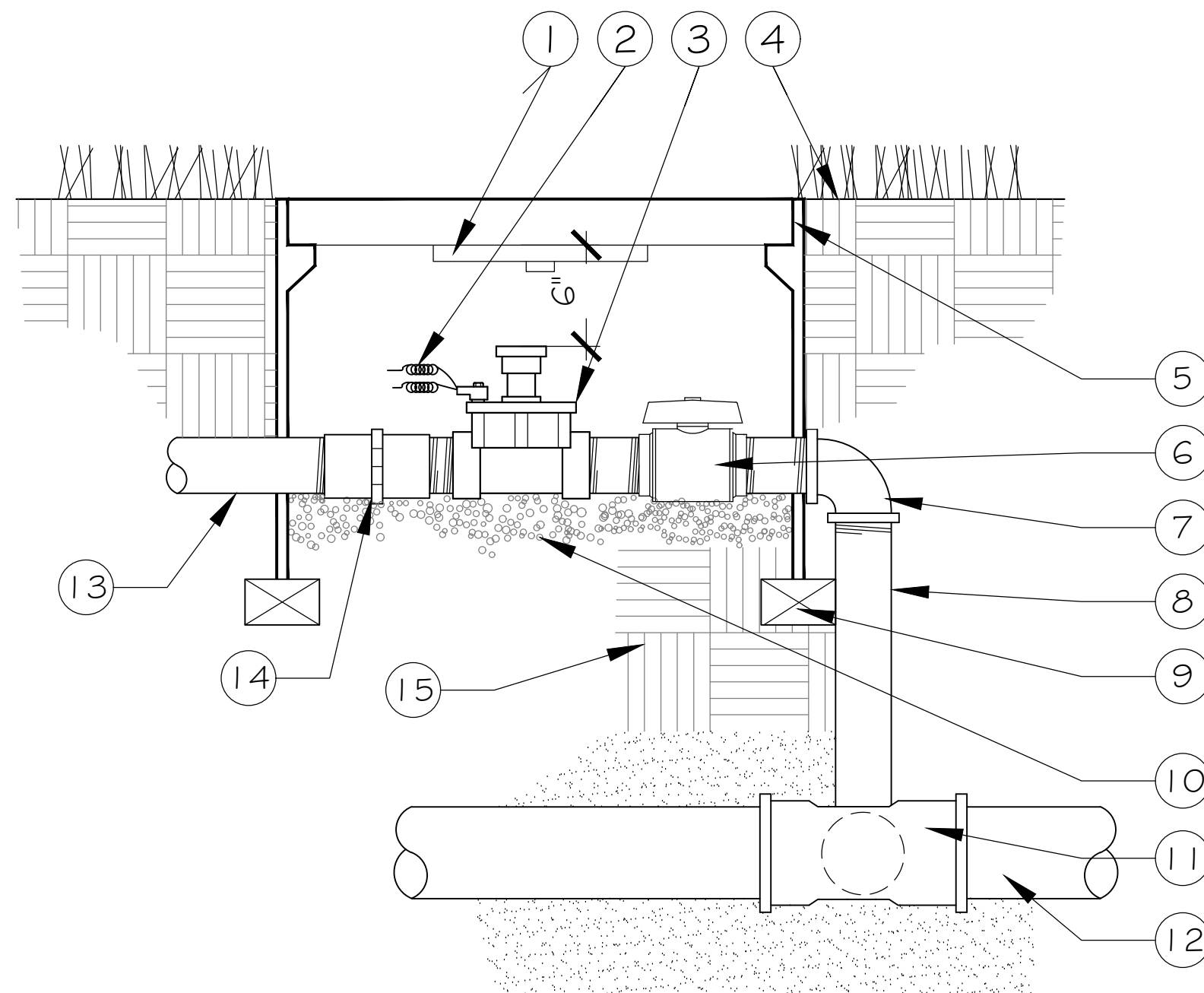
REVISIONS
10/22/2015

2 12/15/2015

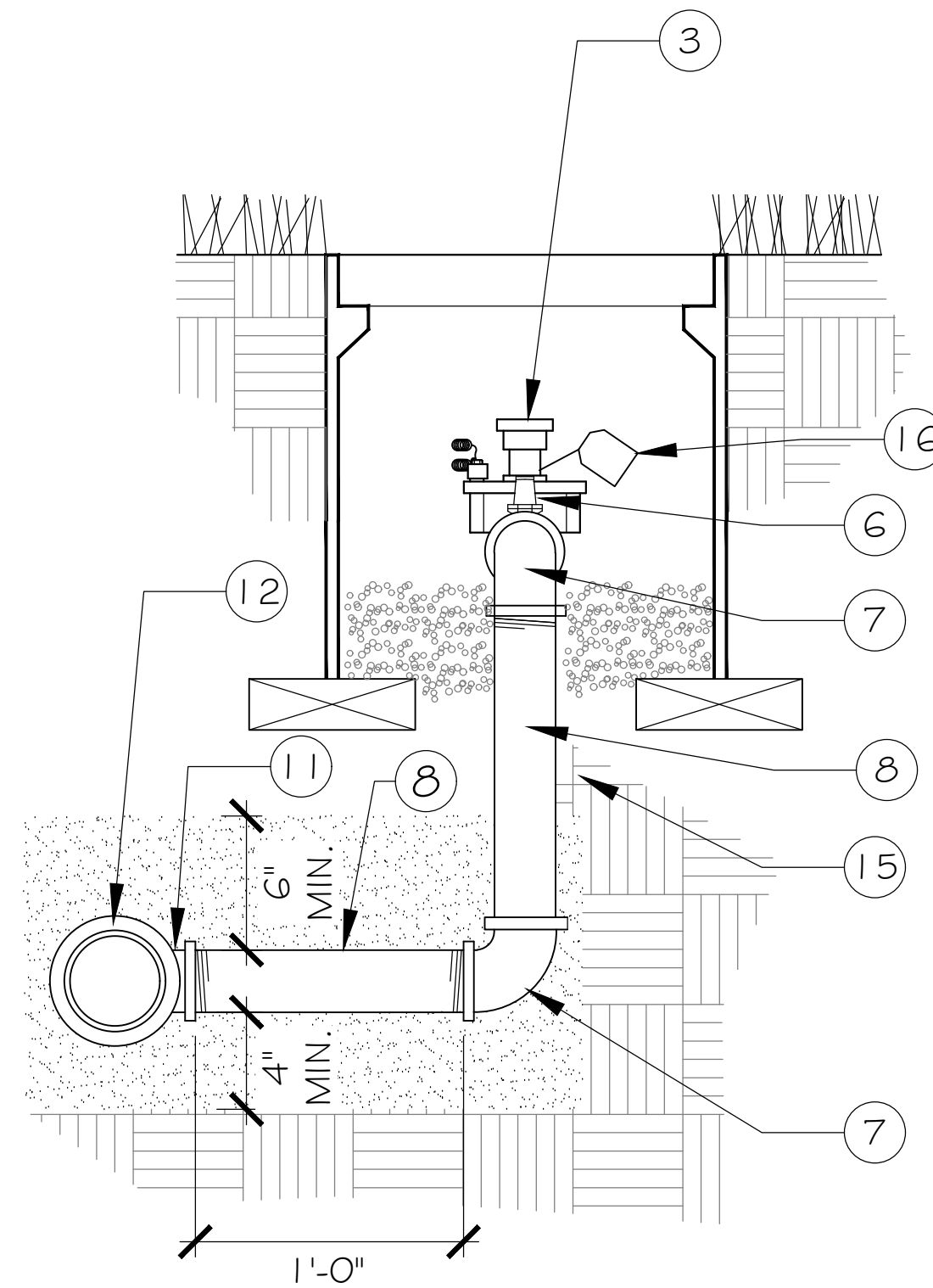


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SHEET NO.
27 OF 36



SECTION - FRONT VIEW



SECTION - SIDE VIEW

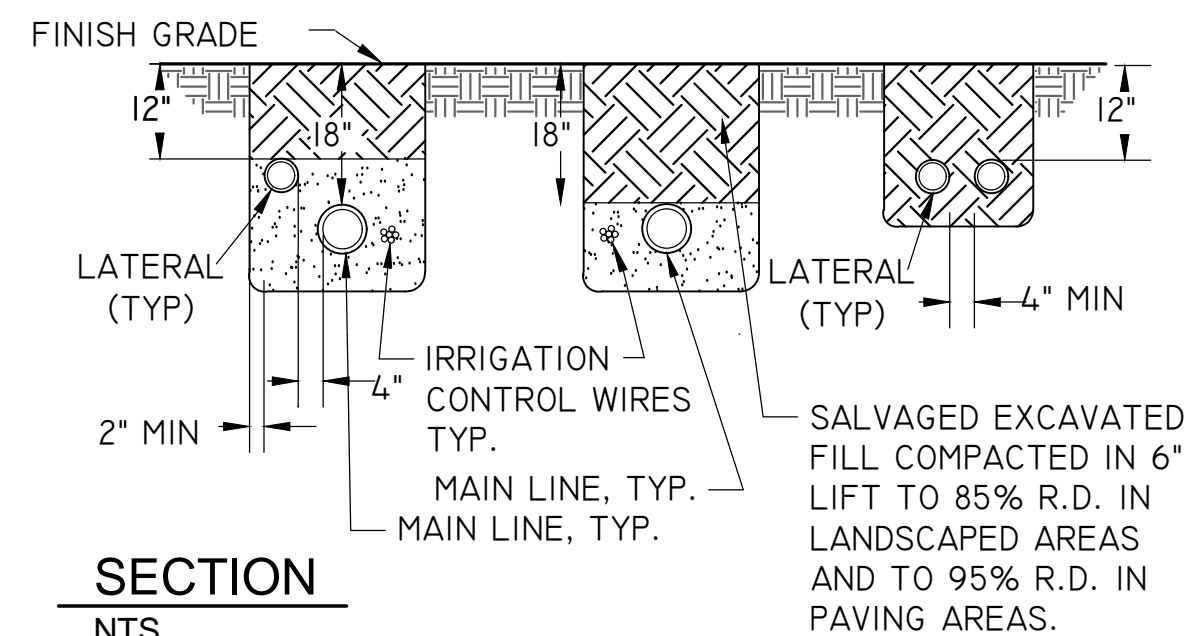
NOTES:

1. VALVE MARKER PER SPECIFICATIONS SECURE TO INSIDE LID OF VALVE BOX FOR VALVE BOXES BURIED BELOW GRADE.
2. VALVE CONTROL WIRE PROVIDE "3M DBY" SEAL PACKS AT ALL SPLICES & 36" OF EXCESS UF WIRE IN A 1" DIA. COIL.
3. REMOTE CONTROL VALVE.
4. FINISH GRADE.
5. 13" X 20" JUMBO RECTANGULAR LOCKING VALVE BOX.
6. FULL PORT PVC BALL VALVE.
7. SCH. 80 PVC 90 DEGREE ELL.
8. THREADED ON BOTH ENDS, SCH. 80 PVC NIPPLE.
9. BRICK - 1 @ EA. CORNER.
10. PEA GRAVEL.
11. SCH. 80 PVC TEE.
12. PVC MAIN LINE.
13. IRRIGATION SUPPLY LINE.
14. SCH. 80 UNION.
15. SOIL IN IRRIGATION MAIN AND LATERAL LINES SHALL BE COMPACTED IN 6" LIFT WITH EACH LIFT COMPACTED TO 85% R.D. IN LANDSCAPED AREAS AND 95% R.D. IN PAVING AREAS.
16. VALVE STATION # ID TAG

SECTION NTS

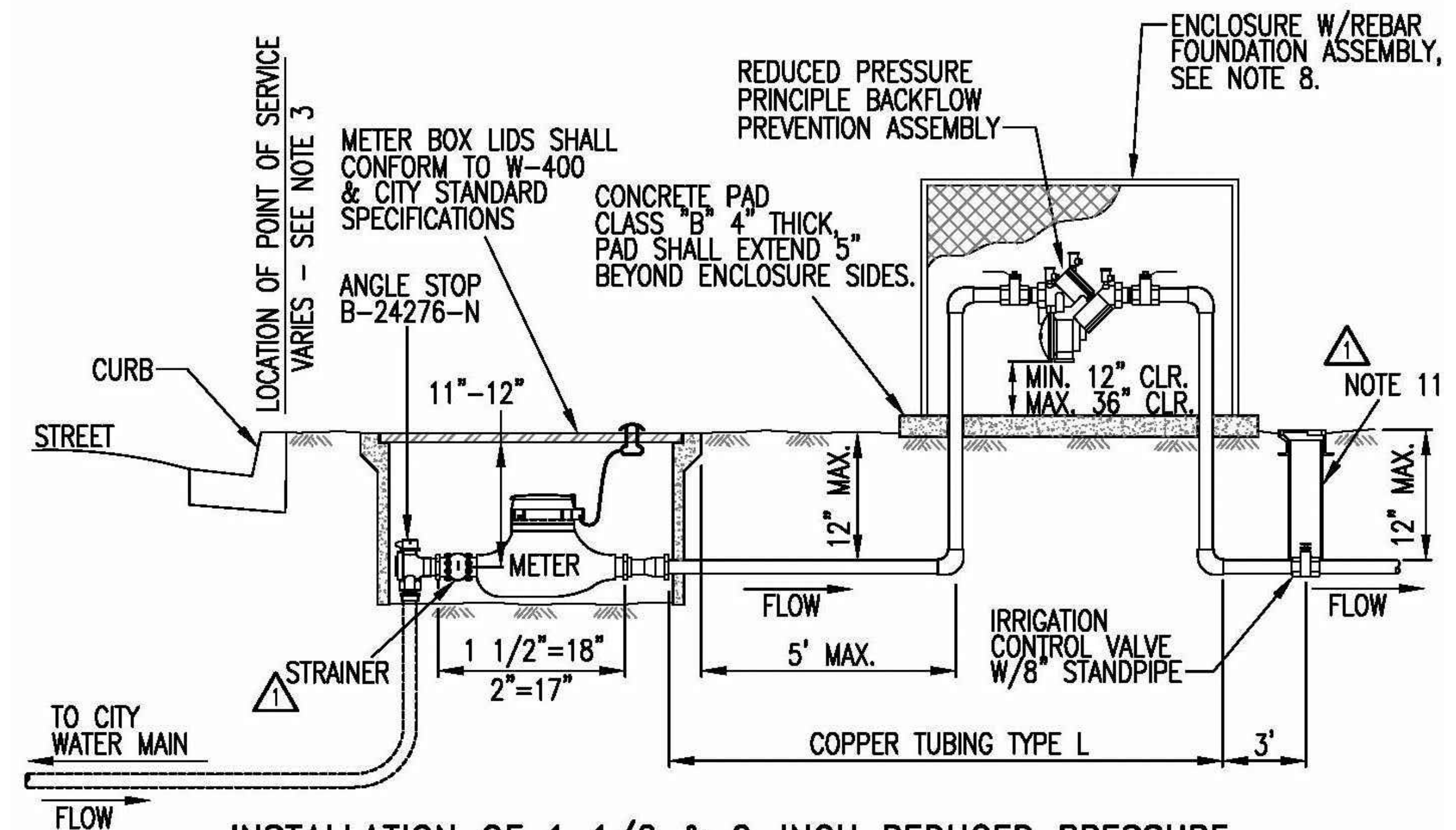
2 ELECTRIC CONTROL VALVE CITY OF SACRAMENTO STANDARD DETAIL

NOTE: SLEEVE IRRIGATION PIPE IN PLANTING AREAS AND UNDER PAVING AS SHOWN IN PLANS.



SECTION NTS

3 IRRIGATION LATERAL LINE TRENCHING CITY OF SACRAMENTO STANDARD DETAIL - REVISED



INSTALLATION OF 1 1/2 & 2-INCH REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTION ASSEMBLY / WATER METER ON ALL CITY IRRIGATION SYSTEMS OWNED BY THE CITY.

NOTES:

1. INSTALLATION AND TESTING SHALL BE IN ACCORDANCE WITH THE CURRENT CROSS CONNECTION CONTROL POLICY.
2. REDUCED PRESSURE BACKFLOW PREVENTION ASSEMBLIES SHALL BE CONNECTED TO CITY WATER AND TESTED PRIOR TO BEING PLACED INTO SERVICE.
3. POINT OF SERVICE:
 - A. POINT OF SERVICE IS THE BACK OF CURB FOR ALL CITY STREETS WITH PLANTER STRIPS.
 - B. POINT OF SERVICE IS THE BACK OF SIDEWALK FOR STREETS WITH SIDEWALK CONTIGUOUS WITH CURB AND GUTTER
 - C. POINT OF SERVICE IS THE RIGHT-OF-WAY LINE ON ALL ALLEYS AND UNIMPROVED STREETS.
 - D. WHERE THE POINT OF SERVICE IS UNCLEAR THE LOCATION SHALL BE DETERMINED BY THE CROSS CONNECTION CONTROL SPECIALIST.
4. LISTS OF APPROVED BACKFLOW PREVENTION ASSEMBLIES AND CERTIFIED BACKFLOW PREVENTION ASSEMBLY TESTORS ARE AVAILABLE AT THE DEPARTMENT OF UTILITIES CUSTOMER SERVICE COUNTER LOCATED AT 1395 35TH AVE.
5. THE BACKFLOW PREVENTION ASSEMBLIES SHALL BE INSTALLED ABOVE GROUND, IN A HORIZONTAL AND LEVEL POSITION THE ASSEMBLY SHALL BE LOCATED ON THE CUSTOMER'S SIDE AND NO FURTHER THAN FIVE (5) FEET FROM THE POINT OF SERVICE OR THE METER.
6. OUTLETS, TAPS, TEES, OR CONNECTIONS BETWEEN THE WATER MAIN AND BACKFLOW PREVENTER ARE NOT ALLOWED.
7. FREEZE BAGS ARE REQUIRED ON ALL CITY MAINTAINED ASSEMBLIES.
8. CONCRETE PAD AND PROTECTIVE ENCLOSURE REQUIRED FOR ALL CITY MAINTAINED ASSEMBLIES. ENCLOSURE SHALL BE PLACER WATERWORKS PW/E1AW-M (W18"xL40"xH30") OR EQUAL. FINISH SHALL BE POWDER COATED HUNTER GREEN.
9. IF PROTECTIVE ENCLOSURE IS REQUIRED, DEPARTMENT OF UTILITIES LOCK(S) SHALL BE INSTALLED.
10. 6 MIL POLYETHYLENE WRAP WITH 10 MIL TAPE IS REQUIRED FOR ALL UNDERGROUND COPPER TUBING.
11. PLACE BLOCKS UNDER STAND PIPE SO SUPPORTED CLEAR OF HORIZ PIPE. STAND PIPE TO BE 8" SDR 35 WITH 910 CARSON VALVE BOX GREY IN COLOR WITH (WATER) LETTERING ON THE LID, OR APPROVED EQUAL.

REV.	DATE	DESCRIPTION
1	Dec-2013	Addendum #3

CITY OF SACRAMENTO DEPARTMENT OF UTILITIES

2-INCH & SMALLER RP ASSEMBLY W/METER ON ALL CITY IRRIGATION SYSTEMS

APPR'D BY: _____ NO SCALE
DATE: _____ DWG. NO. W-606

1 BACKFLOW PREVENTION ASSEMBLY CITY OF SACRAMENTO STANDARD DETAIL



H.T. HARVEY & ASSOCIATES Ecological Consultants

100% SUBMITTAL



LANDSCAPE ARCHITECT: JMH

DESIGN BY/DRAWN BY: LK / KV / SVL / CJ

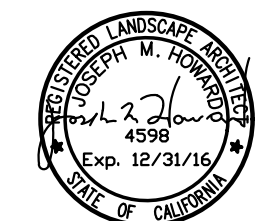
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DATE: 06/25/2015

SCALE: NO SCALE

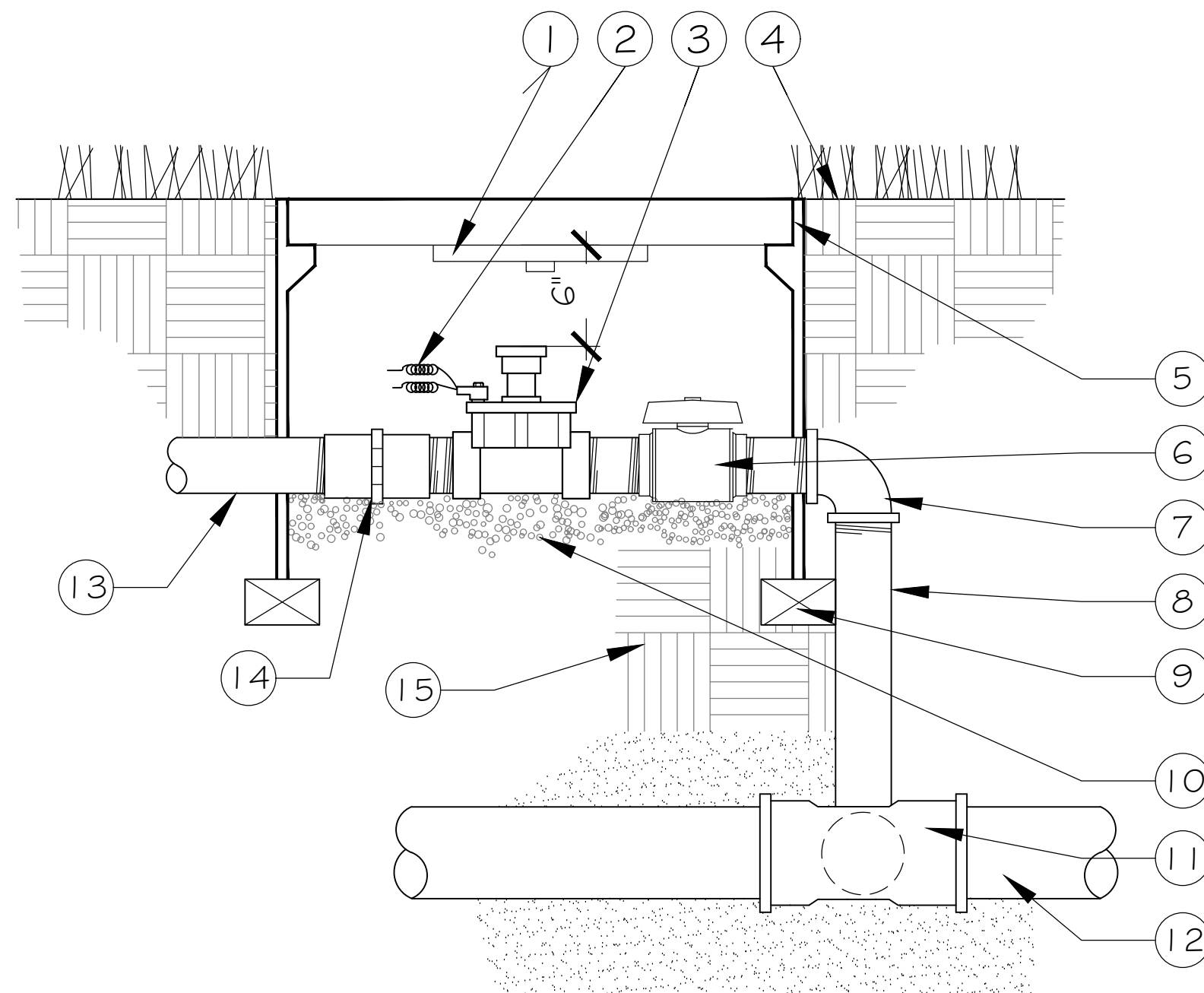
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REVISIONS 2 12/15/2015

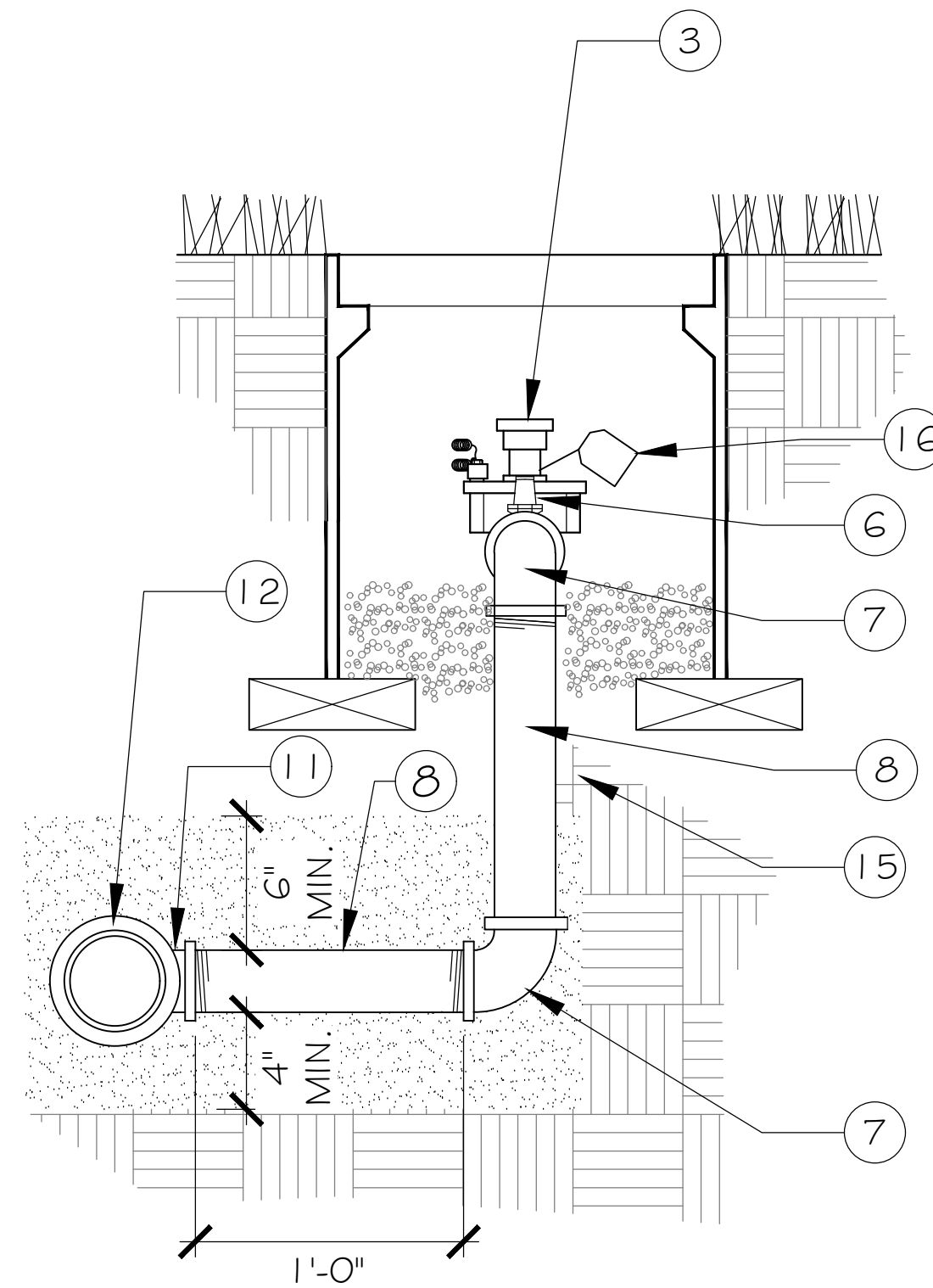


L2.2

SHEET NO. 28 OF 36



SECTION - FRONT VIEW



SECTION - SIDE VIEW

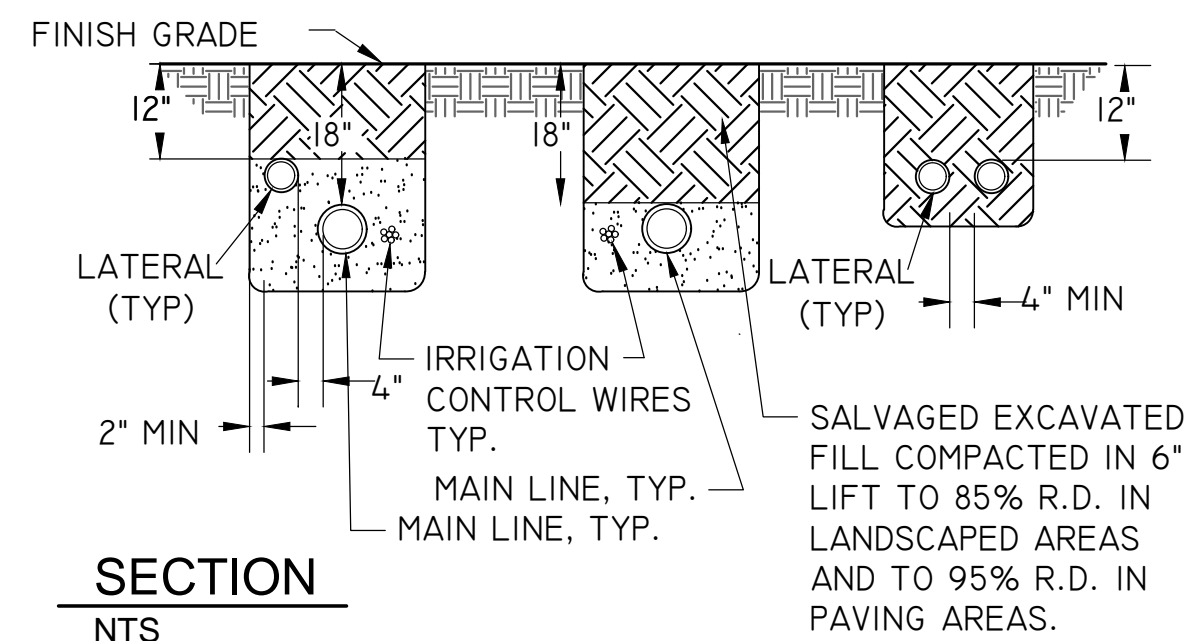
NOTES:

1. VALVE MARKER PER SPECIFICATIONS SECURE TO INSIDE LID OF VALVE BOX FOR VALVE BOXES BURIED BELOW GRADE.
2. VALVE CONTROL WIRE PROVIDE "3M DBY" SEAL PACKS AT ALL SPLICES & 36" OF EXCESS UF WIRE IN A 1" DIA. COIL.
3. REMOTE CONTROL VALVE.
4. FINISH GRADE.
5. 13" X 20" JUMBO RECTANGULAR LOCKING VALVE BOX.
6. FULL PORT PVC BALL VALVE.
7. SCH. 80 PVC 90 DEGREE ELL.
8. THREADED ON BOTH ENDS, SCH. 80 PVC NIPPLE.
9. BRICK - 1 @ EA. CORNER.
10. PEA GRAVEL.
11. SCH. 80 PVC TEE.
12. PVC MAIN LINE.
13. IRRIGATION SUPPLY LINE.
14. SCH. 80 UNION.
15. SOIL IN IRRIGATION MAIN AND LATERAL LINES SHALL BE COMPACTED IN 6" LIFT WITH EACH LIFT COMPACTED TO 85% R.D. IN LANDSCAPED AREAS AND 95% R.D. IN PAVING AREAS.
16. VALVE STATION # ID TAG

SECTION NTS

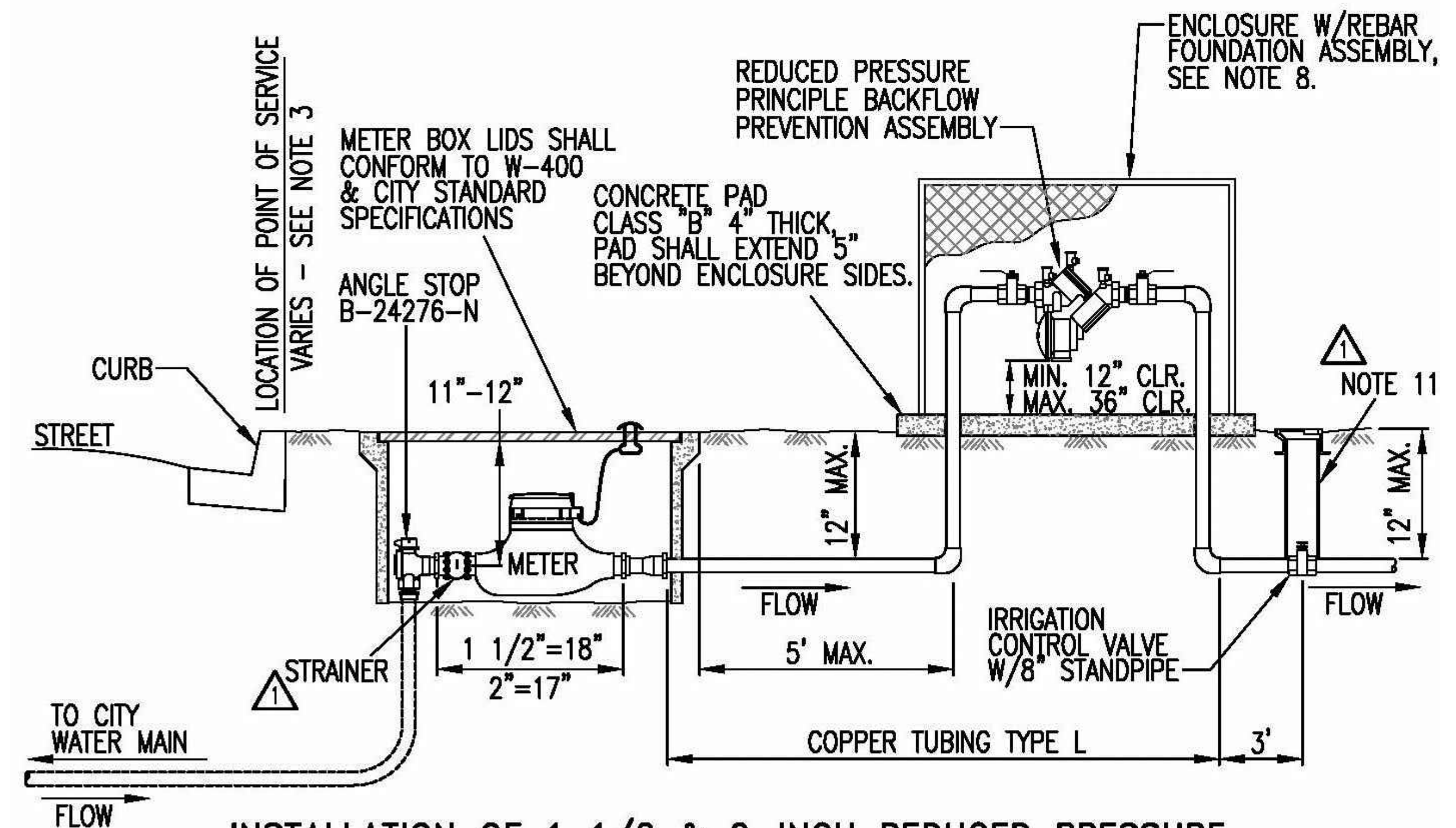
2 ELECTRIC CONTROL VALVE CITY OF SACRAMENTO STANDARD DETAIL

NOTE: SLEEVE IRRIGATION PIPE IN PLANTING AREAS AND UNDER PAVING AS SHOWN IN PLANS.



SECTION NTS

3 IRRIGATION LATERAL LINE TRENCHING CITY OF SACRAMENTO STANDARD DETAIL - REVISED



INSTALLATION OF 1 1/2 & 2-INCH REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTION ASSEMBLY / WATER METER ON ALL CITY IRRIGATION SYSTEMS OWNED BY THE CITY.

NOTES:

1. INSTALLATION AND TESTING SHALL BE IN ACCORDANCE WITH THE CURRENT CROSS CONNECTION CONTROL POLICY.
2. REDUCED PRESSURE BACKFLOW PREVENTION ASSEMBLIES SHALL BE CONNECTED TO CITY WATER AND TESTED PRIOR TO BEING PLACED INTO SERVICE.
3. POINT OF SERVICE:
 - A. POINT OF SERVICE IS THE BACK OF CURB FOR ALL CITY STREETS WITH PLANTER STRIPS.
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7. FREEZE BAGS ARE REQUIRED ON ALL CITY MAINTAINED ASSEMBLIES.
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9. IF PROTECTIVE ENCLOSURE IS REQUIRED, DEPARTMENT OF UTILITIES LOCK(S) SHALL BE INSTALLED.
10. 6 MIL POLYETHYLENE WRAP WITH 10 MIL TAPE IS REQUIRED FOR ALL UNDERGROUND COPPER TUBING.
11. PLACE BLOCKS UNDER STAND PIPE SO SUPPORTED CLEAR OF HORIZ PIPE. STAND PIPE TO BE 8" SDR 35 WITH 910 CARSON VALVE BOX GREY IN COLOR WITH (WATER) LETTERING ON THE LID, OR APPROVED EQUAL.

REV.	DATE	DESCRIPTION
1	Dec-2013	Addendum #3

CITY OF SACRAMENTO DEPARTMENT OF UTILITIES

2-INCH & SMALLER RP ASSEMBLY W/METER ON ALL CITY IRRIGATION SYSTEMS

APPR'D BY: _____ NO SCALE
DATE: _____ DWG. NO. W-606

1 BACKFLOW PREVENTION ASSEMBLY CITY OF SACRAMENTO STANDARD DETAIL



H.T. HARVEY & ASSOCIATES Ecological Consultants

100% SUBMITTAL

CITY OF SACRAMENTO DEPARTMENT OF PARKS & RECREATION PARK, PLANNING & DEVELOPMENT SERVICES LANDSCAPE ARCHITECTURE SECTION 915 I STREET, FLOOR 5, SACRAMENTO, CA 95814

AMERICAN RIVER PARKWAY ENHANCEMENTS AT SUTTER'S LANDING PARK TRAILHEAD IRRIGATION DETAILS (1)

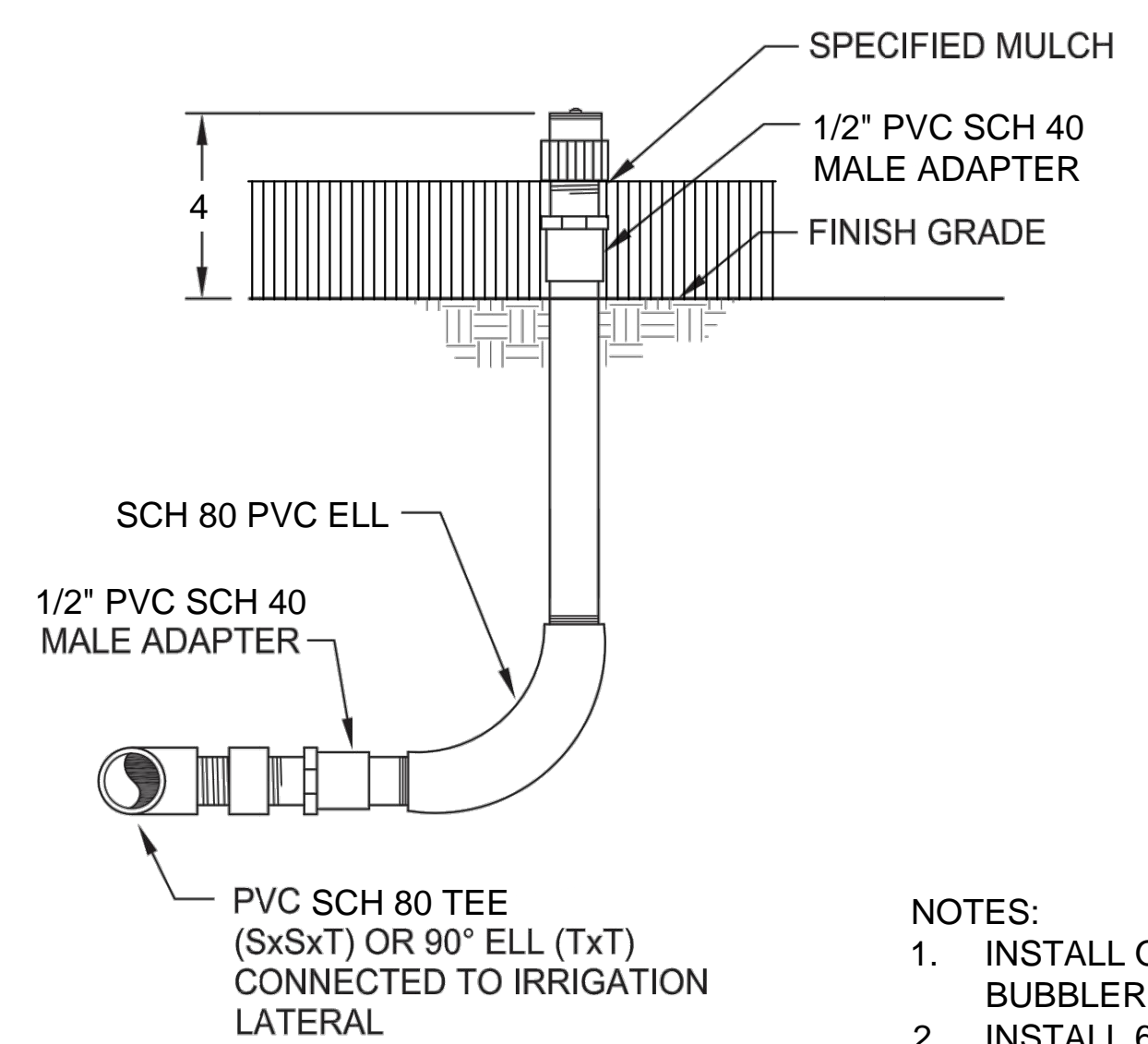
LANDSCAPE ARCHITECT: JMH
DESIGN BY/DRAWN BY: LK / KV / SVL / CJ
CAD FILE: FILE.DWG
DATE: 06/25/2015
SCALE: NO SCALE
P. N.: L19-1672-00
REVISIONS: 2 12/15/2015



L2.2

SHEET NO. 28 OF 36

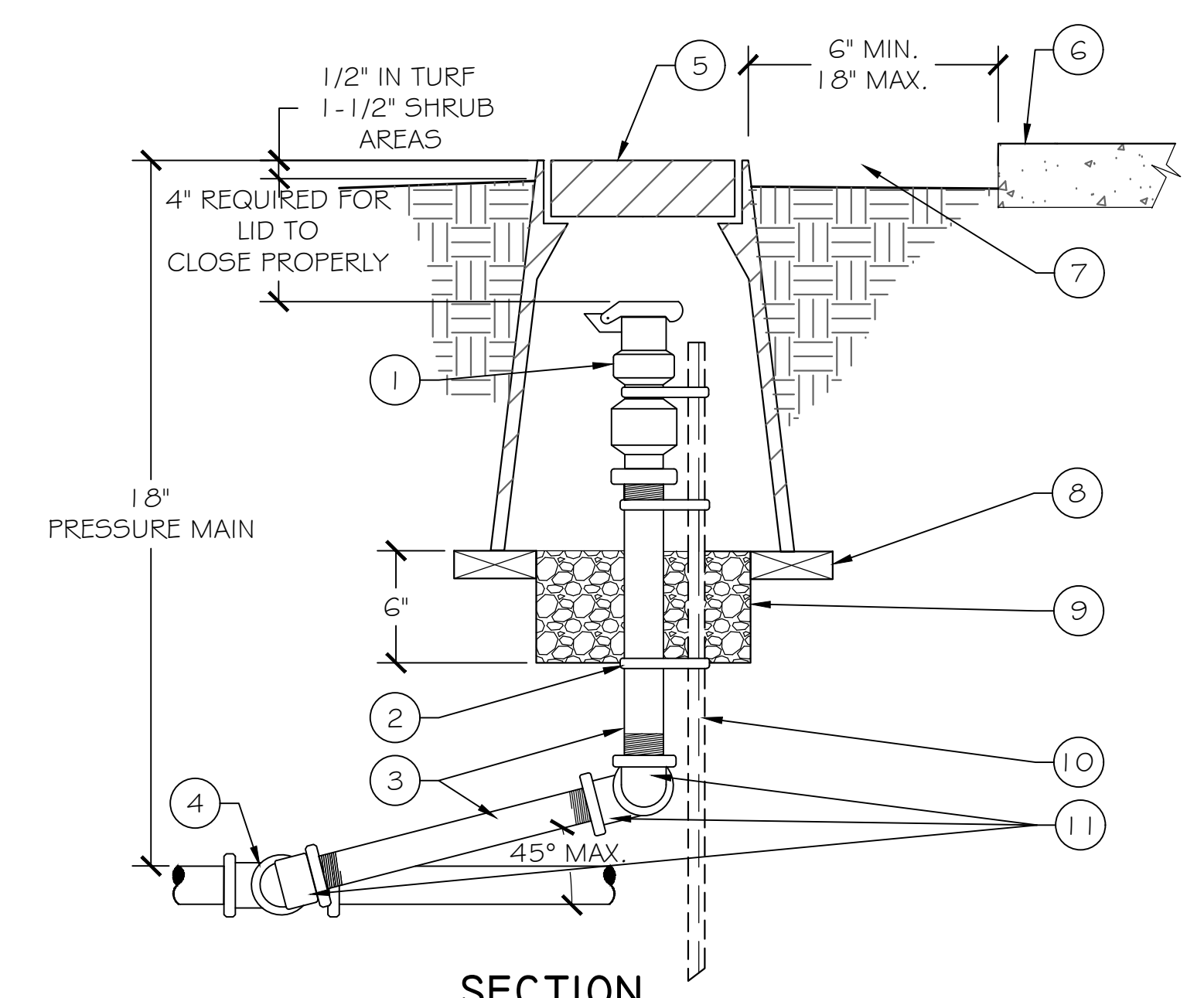
NOTE:
CUT SLOT IN DRAIN PIPE FOR FLEX PIPE



- NOTES:**
1. INSTALL ONE LOW-FLOW BUBBLER PER (1) SHRUB.
 2. INSTALL 6" FROM EDGE OF ROOT BALL.

SECTION
NTS

1 LOW-FLOW SHRUB BUBBLER



SECTION

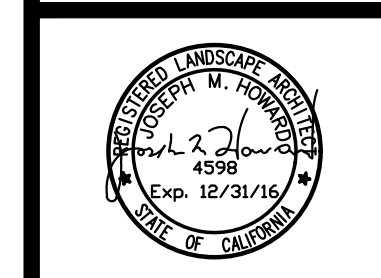
CALLOUTS

1. QUICK COUPLING VALVE, SEE IRRIGATION LEGEND FOR MANUFACTURER AND MODEL NUMBER
2. STAINLESS STEEL SCREW CLAMP, MIN. (3) PLACES
3. SCH. 80 PVC THREADED (BOTH ENDS) NIPPLE (1 2" LONG MINIMUM)
4. SCH. 80 PVC TEE (SLIP X SLIP X FIPT)
5. 1 0" ROUND VALVE BOX W/ 'ICV' LABEL , AND LOCKING COVER.
6. STRUCTURE OR HARDSCAPE
7. FINISH GRADE
8. BRICK, PLACE TWO PER BOX, TYPICAL
9. 3/4" DIAMETER DRAIN ROCK
10. #5 REBAR ANGLE IRON (36" LONG)
11. SCH. 80 PVC 90 DEGREES 1 27" ELL (FIPT X MIPT)

NOTES

- A. INSTALL QUICK COUPLING VALVES IN PLANTING BEDS WHEREVER POSSIBLE.
- B. INSTALL VALVE BOX SO THAT TOP OF VALVE BOX IS FLUSH WITH ADJACENT HARDSCAPING.
- C. PLACE 3/4" DIAMETER DRAIN ROCK PRIOR TO INSTALLATION OF VALVE BOX.
- D. REFER TO PLANS AND SPECIFICATIONS FOR MORE INFORMATION.
- E. SIZE OF ASSEMBLY TO BE EQUAL TO THE FIPT OF THE QUICK COUPLER

2 QUICK COUPLING VALVE
CITY OF SACRAMENTO STANDARD DETAIL - REVISED



L2.3

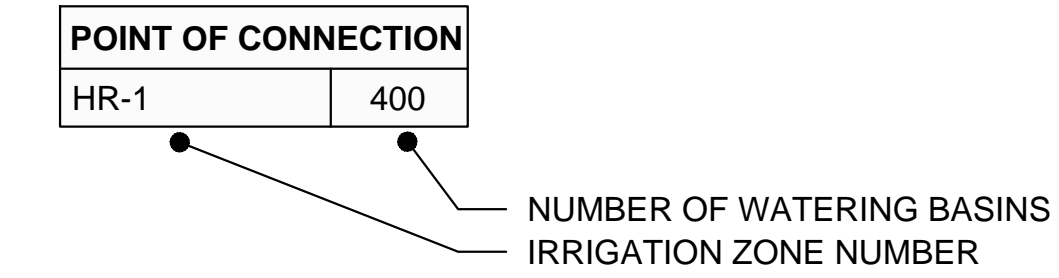


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Ecological Consultants

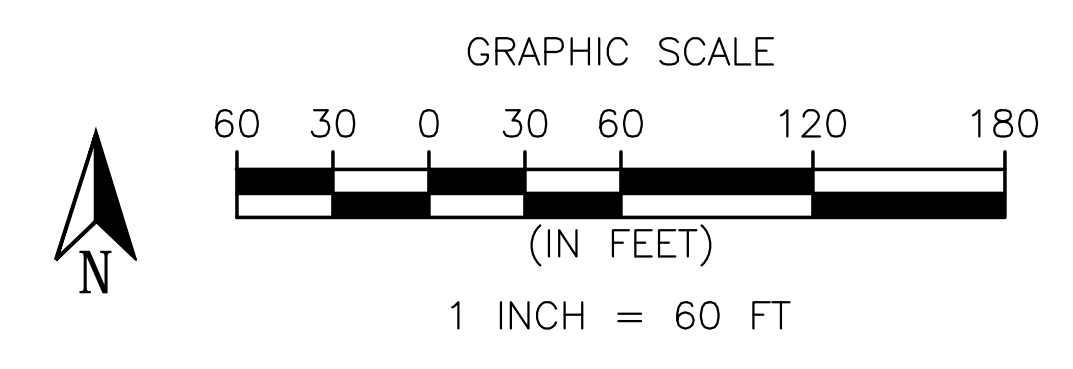
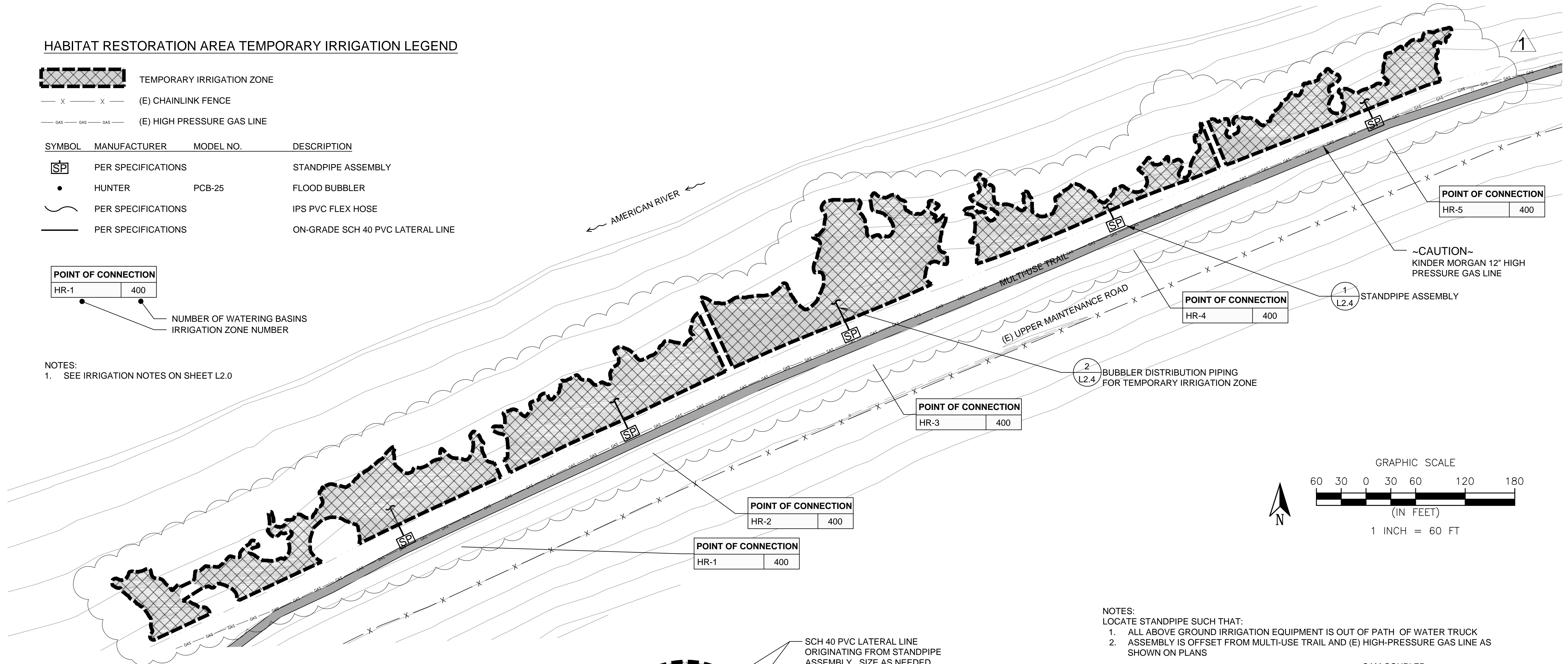
100% SUBMITTAL

HABITAT RESTORATION AREA TEMPORARY IRRIGATION LEGEND

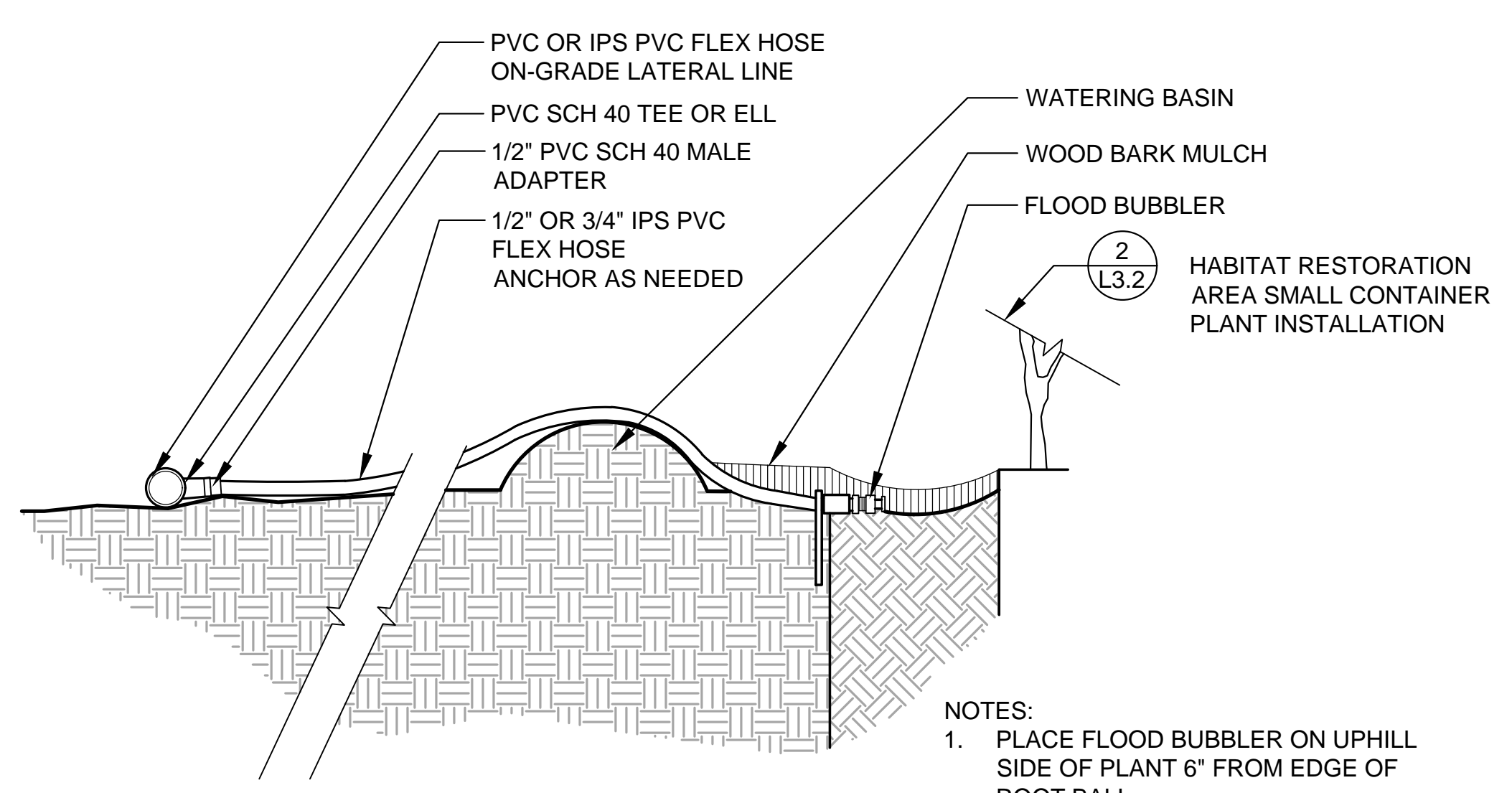
	TEMPORARY IRRIGATION ZONE		
	(E) CHAINLINK FENCE		
	(E) HIGH PRESSURE GAS LINE		
SYMBOL	MANUFACTURER	MODEL NO.	DESCRIPTION
	PER SPECIFICATIONS		STANDPIPE ASSEMBLY
	HUNTER	PCB-25	FLOOD BUBBLER
	PER SPECIFICATIONS		IPS PVC FLEX HOSE
	PER SPECIFICATIONS		ON-GRADE SCH 40 PVC LATERAL LINE



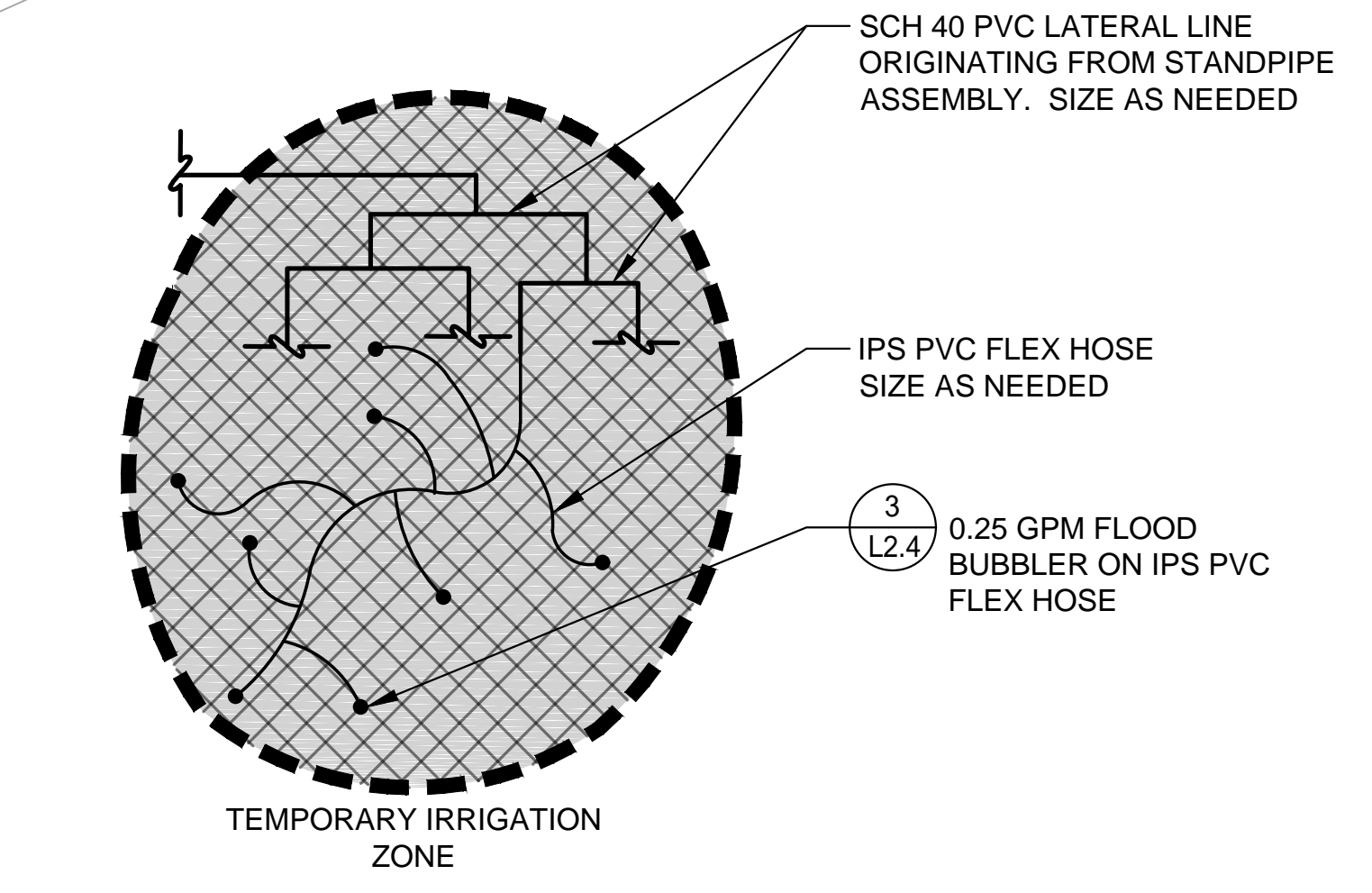
NOTES:
1. SEE IRRIGATION NOTES ON SHEET L2.0



NOTES:
LOCATE STANDPIPE SUCH THAT:
1. ALL ABOVE GROUND IRRIGATION EQUIPMENT IS OUT OF PATH OF WATER TRUCK
2. ASSEMBLY IS OFFSET FROM MULTI-USE TRAIL AND (E) HIGH-PRESSURE GAS LINE AS SHOWN ON PLANS



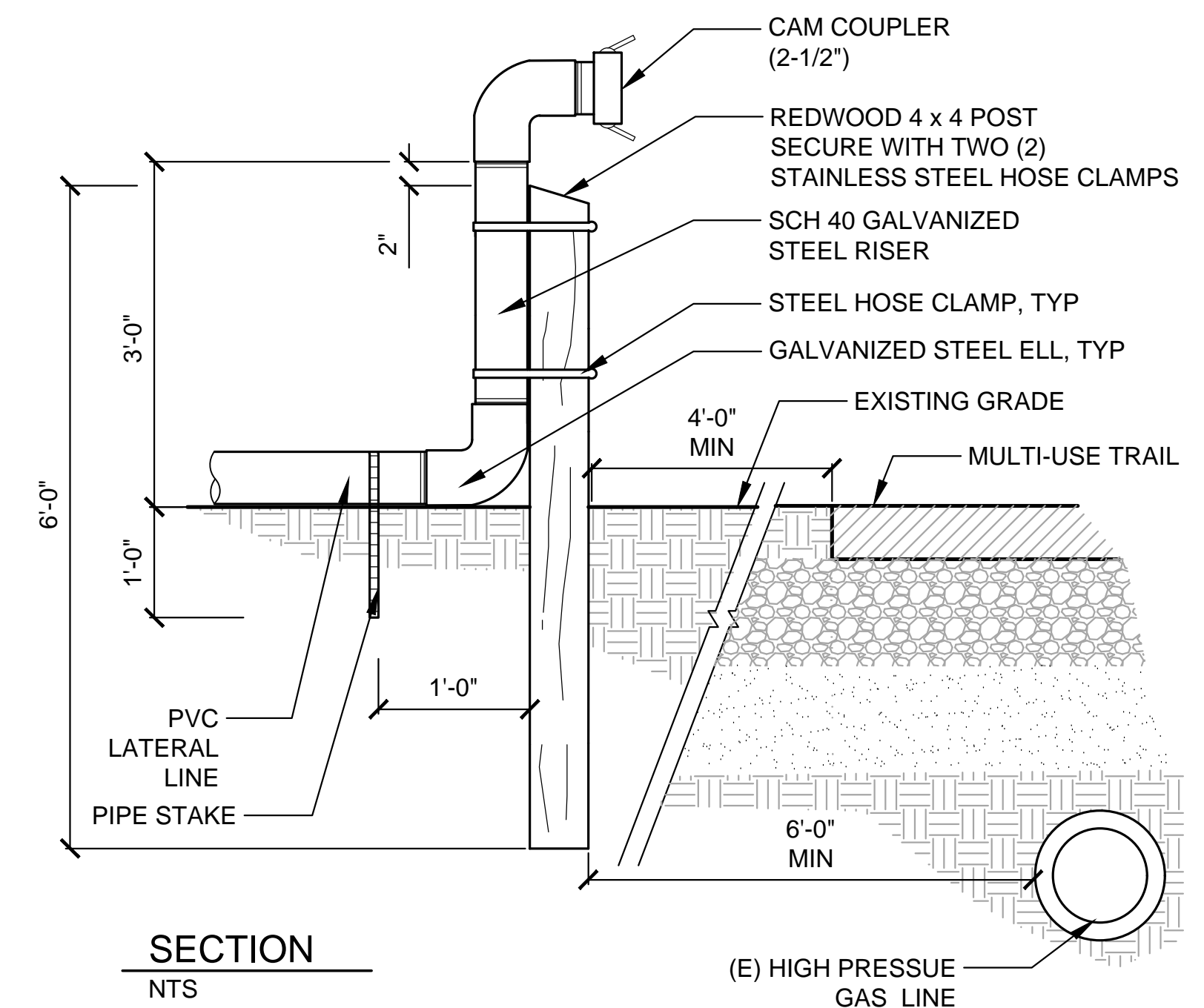
NOTES:
1. PLACE FLOOD BUBBLER ON UPHILL SIDE OF PLANT 6\"/>



SIZE	MATERIAL	GPM
1/2" IPS*	IPS PVC FLEX HOSE	0-4
3/4" IPS*	IPS PVC FLEX HOSE	4-8
1"	SCH. 40 PVC	8-12
1-1/4"	SCH. 40 PVC	12-22
1-1/2"	SCH. 40 PVC	22-30
2"	SCH. 40 PVC	30-50

*IPS = IRON PIPE SIZE

NOTES:
1. INSTALL ONE FLOOD BUBBLER PER PLANT. SIZE PIPE AS NEEDED SO AS NOT TO EXCEED FLOW RATES INDICATED IN THE TABLE.
2. ALL BUBBLER DISTRIBUTION PIPING SHALL BE INSTALLED ON-GRADE.
3. PIPING SHALL BE ANCHORED PER THE SPECIAL PROVISIONS.



SECTION
NTS
1 STANDPIPE ASSEMBLY
STAND PIPE_ON-GRADE_8

SECTION
NTS
3 FLOOD BUBBLER ON FLEX HOSE
BUBBLER ON FLEX HOSE_UNTRENCHED MAIN_8

SECTION
NTS
2 BUBBLER DISTRIBUTION PIPING FOR TEMPORARY IRRIGATION ZONE
layout_conceptual Bubbler System 3_12



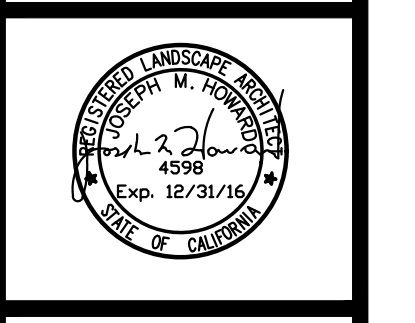
H.T. HARVEY & ASSOCIATES
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CITY OF SACRAMENTO
DEPARTMENT OF PARKS & RECREATION
PARK, PLANNING & DEVELOPMENT SERVICES
LANDSCAPE ARCHITECTURE SECTION
915 I STREET, FLOOR 5, SACRAMENTO, CA 95814

AMERICAN RIVER PARKWAY ENHANCEMENTS
AT SUTTER'S LANDING PARK
HABITAT RESTORATION AREA
IRRIGATION PLAN AND DETAILS

LANDSCAPE ARCHITECT:
JMH
DESIGN BY/DRAWN BY:
LK / KV / SVL / CJ
CAD FILE:
FILE.DWG
DATE: 06/25/2015
SCALE: SEE SHEET
P. N.: L19-1672-00
REVISIONS
1 1022/2015

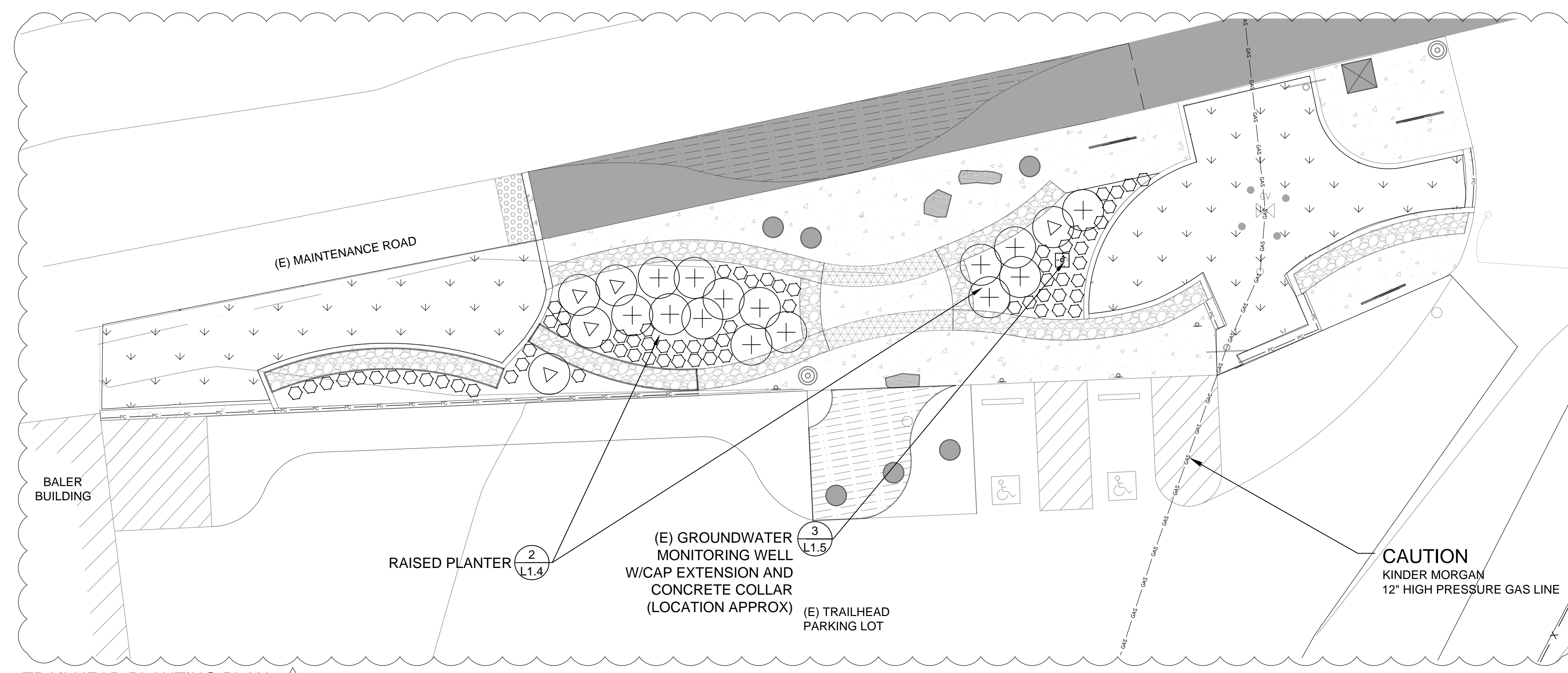


L2.4

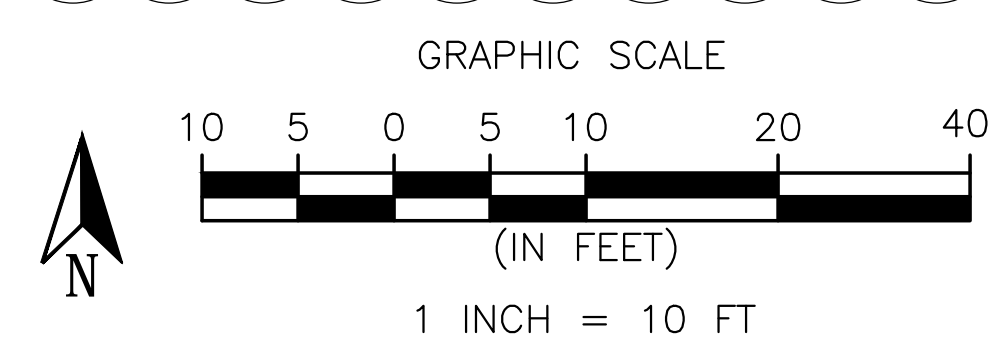
SHEET NO. 1
30 OF 36

AMERICAN RIVER PARKWAY ENHANCEMENTS AT SUTTER'S LANDING PARK (L19-1672-00)

Sheet L3.0 Revision 1 is included for reference, there are no Revision 2 changes.



TRAILHEAD PLANTING PLAN 1



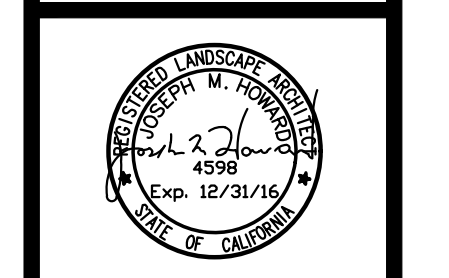
PLANTING SCHEDULE: TRAILHEAD PLANTING AREA

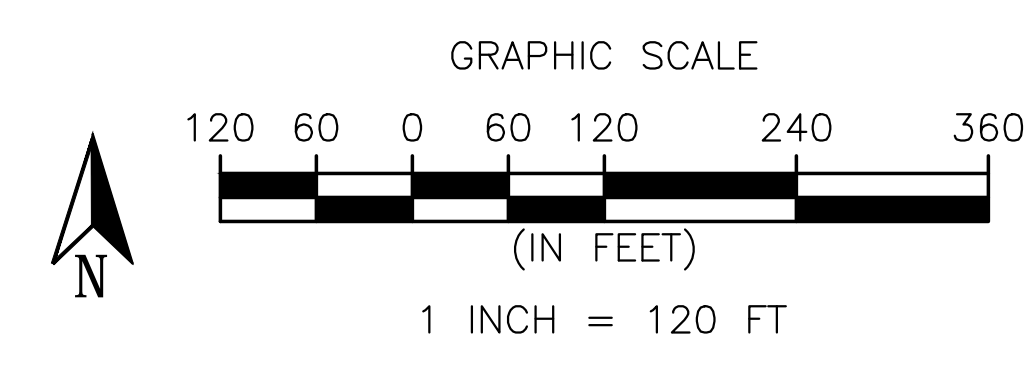
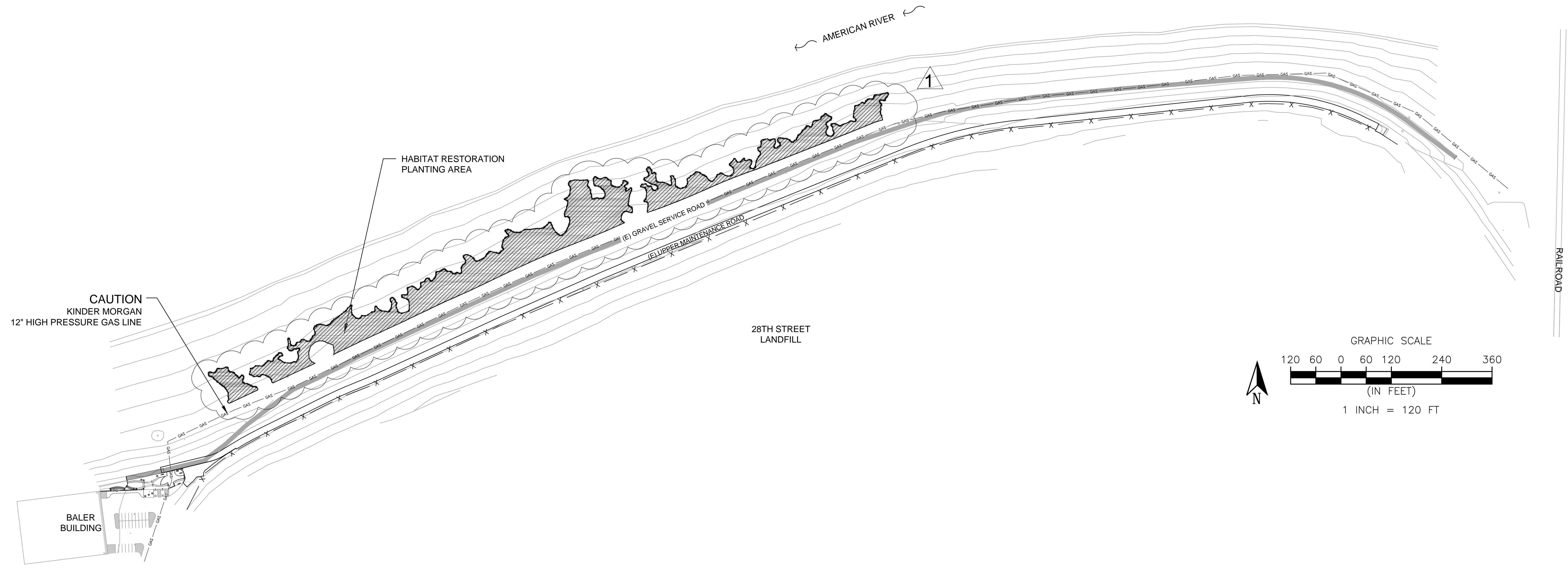
SYMBOL	BOTANICAL NAME	COMMON NAME	OC SPACING (FT)	CONTAINER SIZE	TOTAL PLANTS
SHRUBS					
▽	ARCTOSTAPHYLOS DENSIFLORA 'HOWARD MCMINN'	MCMINN'S MANZANITA	6	5 GAL	5
+	CEANOTHUS 'YANKEE POINT'	YANKEE POINT LILAC	6	5 GAL	14
⬡	LUPINUS ALBIFRONS VAR. COLLINUS	DWARF SILVER BUSH LUPINE	2	1 GAL	70

TRAILHEAD SEEDING - SEE SPECIFICATIONS

- LEGEND**
- GABION WALL
 - SEEDED AREA
 - POST AND CABLE FENCE
 - (E) HIGH PRESSURE GAS LINE

- NOTES:**
- SHRUB PLANTING SHALL BE PER (L3.2)
 - DO NOT INSTALL SHRUBS WITHIN 25-FT OF (E) HIGH PRESSURE GAS LINE





PLANTING SCHEDULE: HABITAT RESTORATION PLANTING AREA

SYMBOL	BOTANICAL NAME	COMMON NAME	APPROX OC SPACING (FT)	SMALL CONTAINER SIZE	TOTAL WATERING BASINS	NOTES
	CAREX BARBARAE*	SANTA BARBARA SEDGE	7.5	DEEPOP	467	INSTALL 3 PLANTS PER BASIN
	LEYMUS TRITICOIDES**	CREEPING WILDRYE	7.5	DEEPOP	333	INSTALL 3 PLANTS PER BASIN
	MUHLENBERGIA RIGENS**	DEER GRASS	7.5	1-GAL	1000	INSTALL 1 PLANT PER BASIN
	RUBUS URSINUS**	CALIFORNIA BLACKBERRY	7.5	DEEPOP	200	INSTALL 3 PLANTS PER BASIN
	HABITAT RESTORATION SEEDING - SEE SPECIFICATIONS***					

* CITY WILL PROVIDE 400 CAREX BARBARAE. CONTRACTOR SHALL PROVIDE REMAINING QUANTITY. SEE NOTE 2.
 ** PROVIDED BY CONTRACTOR. SEE NOTE 2.
 *** PROVIDED AND INSTALLED BY CONTRACTOR.

- NOTES:**
- HABITAT RESTORATION SMALL CONTAINER PLANT INSTALLATION SHALL BE PER 1.2
 - CONTRACTOR SHALL PROVIDE PLANT MATERIAL TO SACRAMENTO REGIONAL CONSERVATION CORPS FOR INSTALLATION PER SPECIFICATIONS.

- LEGEND**
- (E) CHAINLINK FENCE
 - (E) HIGH PRESSURE GAS LINE

LANDSCAPE ARCHITECT:
 JMH
 DESIGN BY/DRAWN BY:
 LK / KV / SVL / CJ
 CAD FILE:
 FILE.DWG
 DATE: 06/25/2015
 SCALE: SEE SHEET
 P. N.: LI9-1672-00
 REVISIONS
 10/22/2015

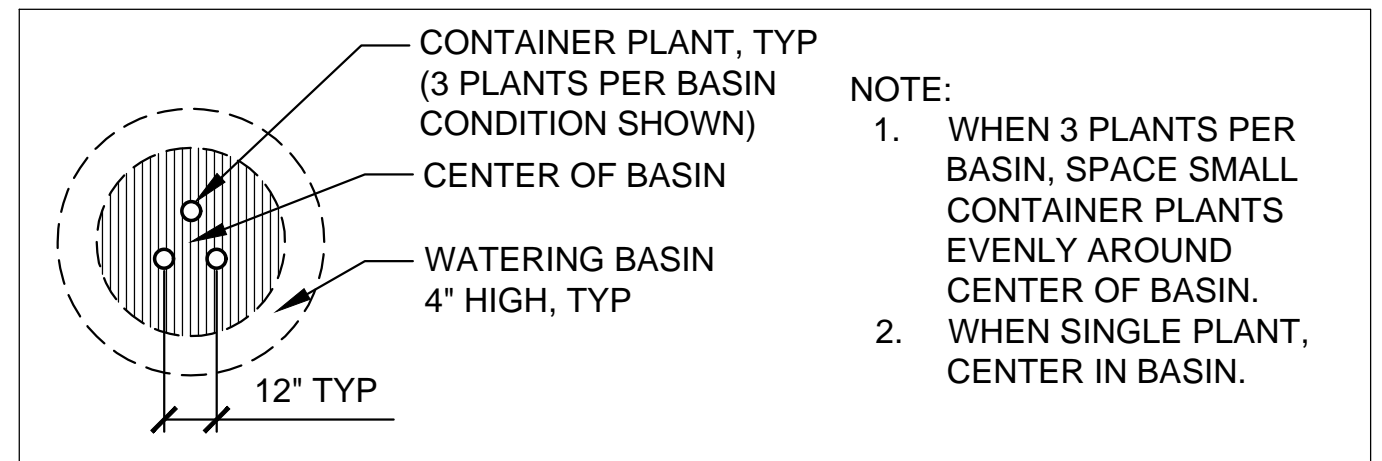
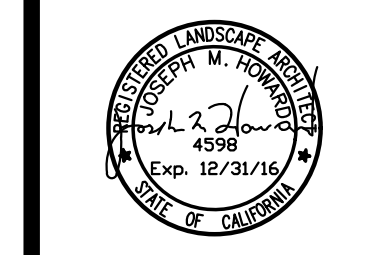


L3.1



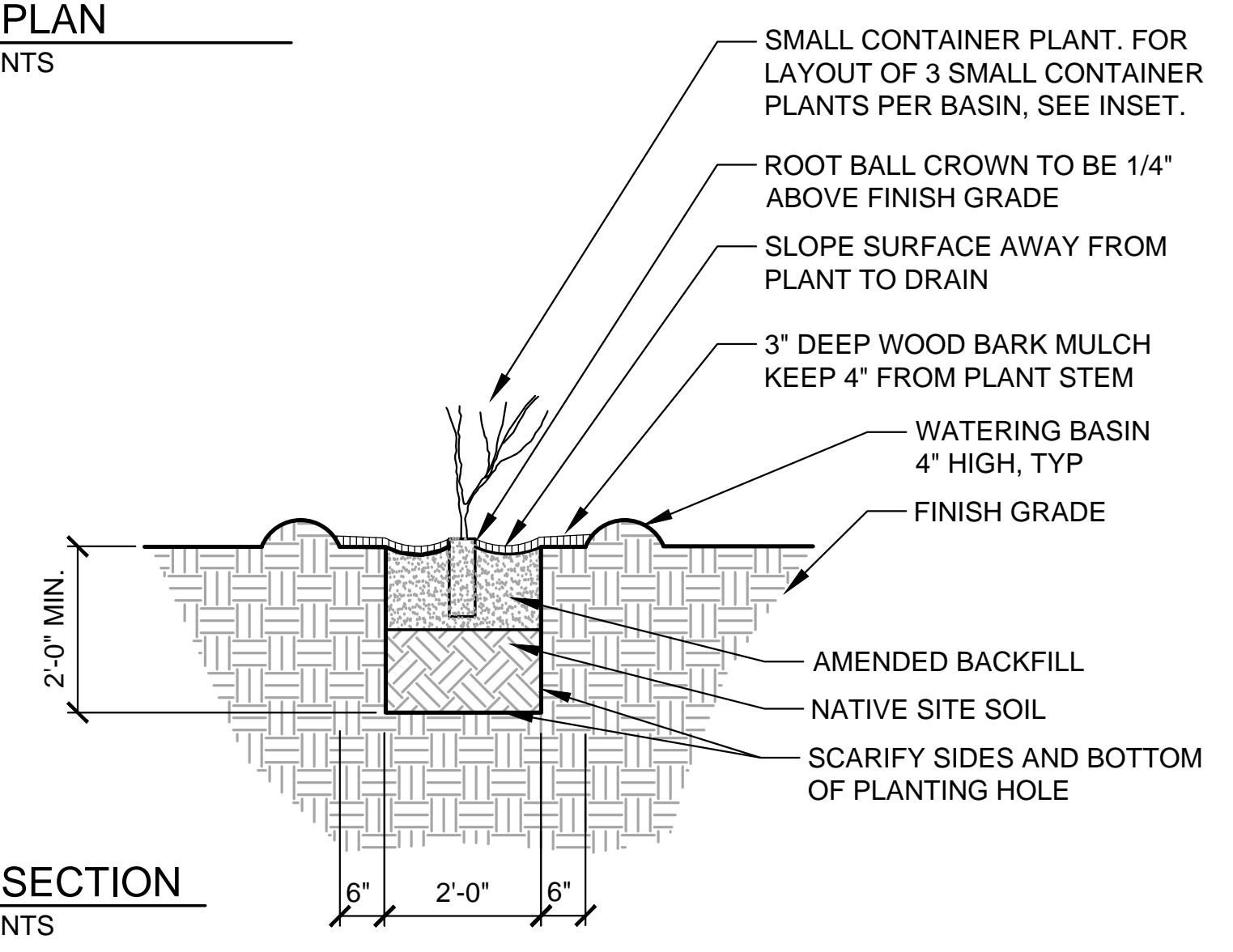
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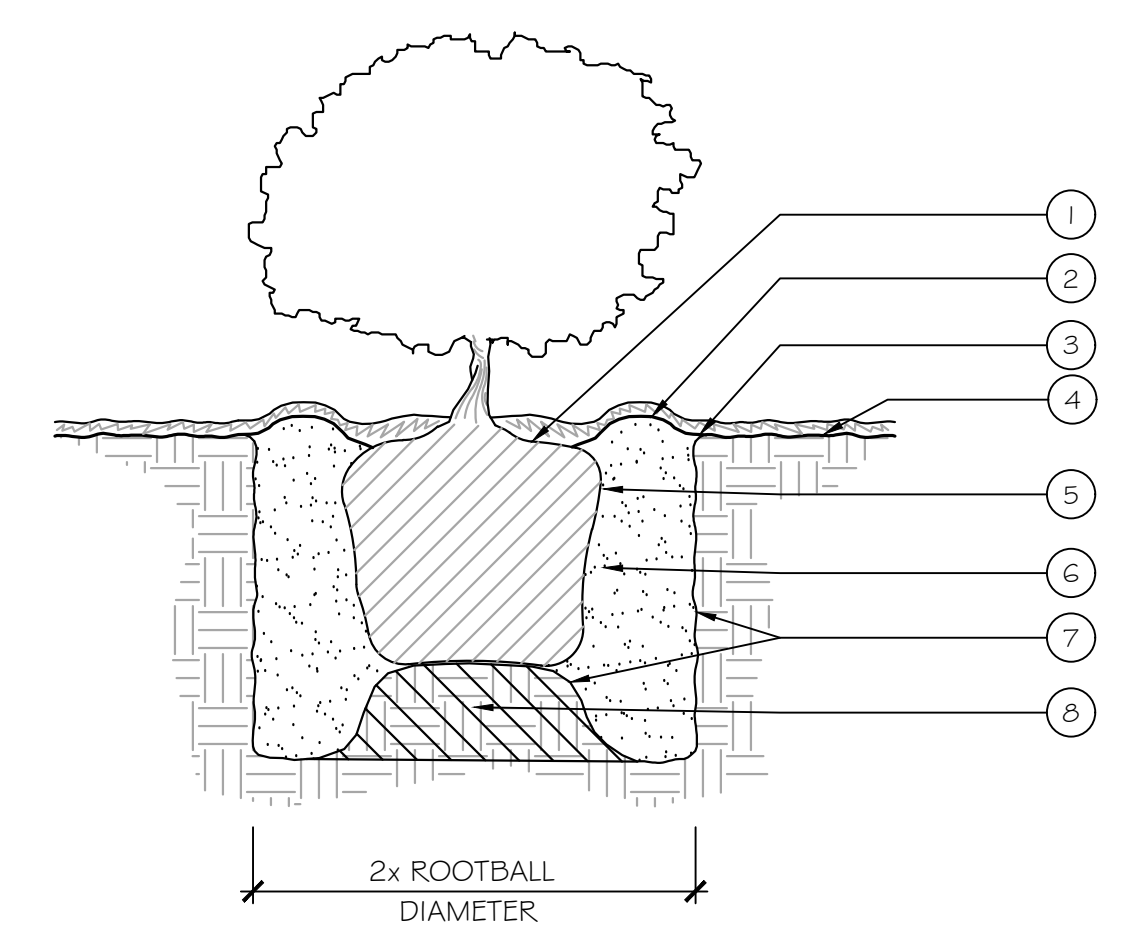
- NOTE:
1. WHEN 3 PLANTS PER BASIN, SPACE SMALL CONTAINER PLANTS EVENLY AROUND CENTER OF BASIN.
 2. WHEN SINGLE PLANT, CENTER IN BASIN.

PLAN
 NTS



SECTION
 NTS

2 **HABITAT RESTORATION AREA**
SMALL CONTAINER PLANT INSTALLATION
 PLANT SMALL CONT-RESTORATION3_24



SECTION

- CALLOUTS**
1. PLANT ROOT CROWN 1" ABOVE FINISH GRADE.
 2. 2" HIGH EARTH MOUND, FINISH GRADE
 3. LANDSCAPE FABRIC.
 4. 3" LAYER OF BARK MULCH.
 5. SHRUB ROOTBALL.
 6. PLANTING SOIL MIX.
 7. SCARIFY SIDES AND BOTTOM OF PLANTING PIT.
 8. PLACE ROOTBALL ON SMALL MOUND OF TAMPED/ FIRM EXISTING SITE SOIL.

1 **SHRUB PLANTING**
 CITY OF SACRAMENTO STANDARD DETAIL



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