AGREEMENT FOR USE OF RECYCLED WATER BETWEEN MONTE VISTA WATER DISTRICT AND CITY OF MONTCLAIR

This Agreement for Use of Recycled Water ("Agreement") is entered into this ____ day of _____, 20__ ("Agreement Date") between the Monte Vista Water District ("District") and the City of Montclair ("City"). For purposes of this Agreement, District and City may be referred to herein individually as a "Party" and collectively as the "Parties."

RECITALS

A. District provides retail municipal water service to land within its boundaries and owns and operates infrastructure to effectuate service of said water. On August 8, 2007, District adopted Ordinance No. 31 ("District Ordinance"), which establishes procedures, specifications, and limitations for the safe and orderly development and operation of recycled water facilities and systems within the District's service area, and to adopt rules and regulations controlling such use. This Agreement is intended to comply with the District Ordinance.

B. The City is constructing recycled water pipeline and appurtenances within the District's service area to serve City-owned properties and rights-of-way. The pipeline and appurtenances are "On-site Facilities" as defined in the District Ordinance and are shown on the City's as-built drawings or facility plans attached as **Exhibit "1"**. Both the On-site Facilities and the City's construction of the On-site Facilities are governed by the District Ordinance and applicable local, State, and Federal laws.

C. Prior to the Agreement Date, City completed and submitted a Recycled Water Service Application ("Application") to District, which is attached as **Exhibit "2"** and incorporated as part of this Agreement.

D. City intends to obtain recycled water from the Inland Empire Utilities Agency and to distribute said water through the On-site Facilities.

E. A copy of the Title 22 Engineering Report ("Engineering Report"), approved by the State Water Resources Control Board ("SWRCB"), is attached as **Exhibit "3"** and incorporated as part of this Agreement.

AGREEMENT

NOW, THEREFORE, for valuable consideration, the receipt and sufficiency of which is hereby acknowledged and accepted, the Parties agree as follows:

1. On-Site Facilities. The City shall construct all On-site Facilities necessary for the use of recycled water in compliance with the Engineering Report, District Ordinance, and all other applicable laws, rules, and regulations. No changes in the proposed On-site Facilities shall be undertaken without the prior amendment of this Agreement and written consent of the District and SWRCB.

2. Rules and Regulations. The City shall utilize recycled water in compliance with the District Ordinance, such rules and regulations as may be established and amended by the District from time to time, and all applicable local, State, and Federal laws, rules, and regulations controlling the use of recycled water.

3. On-Site Supervisor. The On-Site Recycled Water Supervisor ("Supervisor") shall be designated by the City as the person responsible for the proper use of recycled water and the operation and maintenance of the On-site Facilities. The Supervisor shall receive a minimum of four (4) hours of approved training. The City shall notify the District immediately when there is a change of Supervisor.

4. Cross-Connections. The City's On-site Facilities shall be inspected for Cross-Connections, as defined in the District Ordinance, and approved by the District prior to activation of the recycled water service.

5. Signs and Identifiers. The City shall be responsible for providing and maintaining approved recycled water use signage and other recycled water system identification as provided in the Engineering Report and the District Ordinance. The City shall promptly replace or repair, at its sole cost and expense, any damaged or missing recycled water signs or recycled water system identifiers.

6. Right to Inspect. The City hereby grants to the District the right to enter upon City's property at reasonable times and intervals for the purpose of inspecting the On-site Facilities.

7. Penalties. The City hereby understands and acknowledges the penalties for violation of any term of this Agreement and/or provision in the District Ordinance and/or any applicable laws and regulatory agency's requirements.

8. Damage to District Facilities. City hereby agrees that it will assume all responsibility for damages and charges to District facilities within and adjacent to the On-site Facilities caused by City, and any person, firm, or corporation working for, on behalf of, or by direction of City in the construction of the On-site Facilities.

GENERAL PROVISIONS

9. Incorporation of Recitals. The Recitals set forth above are true and correct and incorporated into this Agreement.

10. Defense and Indemnification. City shall indemnify, hold harmless, and defend District and its respective elected officials, officers, volunteers, agents, attorneys, and employees from and against any and all claims (including all litigation, demands, damages, liabilities, costs, and expenses, and including court costs and attorney's fees) resulting or arising from City's construction of the On-Site Facilities or performance or non-performance (actual or alleged) of this Agreement (with the exception of the sole negligence or willful misconduct by the District, or its elected officials, officers, volunteers, agents and employees).

11. Resolution of Disputes. If any dispute shall arise with respect to this Agreement and is not otherwise resolved by the parties hereto, then such dispute shall be determined by a general judicial reference pursuant to California Code of Civil Procedure Sections 638 et seq. in the County of San Bernardino, before one general referee. This is a waiver of any right that may exist to a jury trial.

The Parties shall meet to select the referee no later than thirty (30) days after service of the initial complaint on all defendants named in the complaint. The referee shall be a retired judge who has served in either the California Superior Court or Federal Court in Orange County, California with substantial experience in the type of matter in dispute and without any relationship to either Party, unless the Parties agree otherwise.

All other fees and costs incurred in connection with the judicial reference proceeding, including the cost of the stenographic record, shall be advanced equally by the Parties. However, the referee shall have the power to reallocate such fees and costs among the Parties in the referee's final ruling.

12. Attorneys' Fees and Costs. In the event that a Party brings an action relating to or arising from this Agreement, the prevailing Party in such action shall be entitled to recover from the other Party its reasonable attorneys' fees and costs.

13. Governing Law. The Parties hereby agree that this Agreement is to be governed under the laws of the State of California and construed according to its plain meaning as if drafted by both City and District. Any suit, claim, or legal proceeding of any kind related to this Agreement shall be filed and heard in a court of competent jurisdiction in the County of San Bernardino.

14. Cancellation or Amendment. This Agreement may be unilaterally cancelled or amended by the District if one or more of the following conditions occur:

a. A significant change of either volume or use of recycled water by the City which results in damage to the operation of the District's Recycled Water Distribution Program;

b. A change in the City's On-site Facilities without prior District and SWRCB approval; or

c. A material violation by the City of the District Ordinance.

This Agreement may be bilaterally modified or amended only if the amendment is made in writing and signed by both Parties.

15. Term. This Agreement shall be operable for ten (10) years from the Agreement Date. District and City will negotiate in good faith thereafter to make necessary changes to conform this Agreement to then existing District standards, practices, and policies.

16. Waiver. The failure of either party to enforce any provision of this Agreement shall not be construed as a waiver or limitation of that Party's right to subsequently enforce and compel strict compliance with other terms and provisions contained in this Agreement.

17. Severability. Should any provision of this Agreement be determined to be invalid or unenforceable for any reason, the remaining provisions shall continue to be valid and enforceable.

18. No Third-Party Beneficiaries. This Agreement shall not be deemed to confer any rights upon any individual or entity which is not a party hereto, and the Parties hereto expressly disclaim any such third-party benefit.

19. Successors and Assigns. The terms, conditions, and provisions of this Agreement shall inure to the benefit of and be binding upon the Parties and their respective successors and assigns.

20. Further Cooperation. The Parties agree to execute, acknowledge if appropriate, and deliver any and all documents and cooperate in performing any and all acts in any commercially reasonable manner as may be necessary to carry out the intent of this Agreement as set forth in the Recitals and implement the terms and conditions of this Agreement.

21. Complete Agreement. This Agreement contains the entire agreement between the Parties and supersedes and replaces any and all prior negotiations and agreements between the Parties, whether written or oral.

22. Counterparts. This Agreement may be executed in counterparts (signatures may be by facsimile or electronic mail), each of which is hereby declared to be an original. All, however, shall constitute but one and the same Agreement.

By signing this Agreement both Parties agree they will comply with the terms and conditions of the Agreement.

Monte Vista Water District

By: _____
Justin M. Scott-Coe, General Manager

By: _____
Sandra S. Rose, President
Board of Directors

APPROVED AS TO FORM:

By: _____
Andrew B. Gagen, Legal Counsel
Kidman Gagen Law LLP

City of Montclair

_____
Javier "John" Dutrey, Mayor
City Council

ATTEST:

By: _____
Andrea M. Phillips, City Clerk

APPROVED AS TO FORM

By: _____
Diane Evans Robbins, City Attorney
Robbins & Holdaway

Exhibit 1

Facility Plans

See Exhibit 3 Page 7

Exhibit 2

RECYCLED WATER SERVICE APPLICATION

(To be completed by Owner or Recycled Water User)

Applicant hereby requests the use of recycled water, as delivered to and distributed by Monte Vista Water District. The applicant hereby agrees to design and operate their recycled water facilities in accordance with the Ordinances, Resolutions, Rules and Regulations of Monte Vista Water District, and in accordance with applicable Federal, State and local ordinances, regulations, and other requirements. The Recycled Water User agrees to prepare and submit a Title 22 Engineering Report to the California Department of Public Health as a condition of being granted service. Final Engineering Report approval is required to enter into a Recycled Water Use Agreement with the District.

(Please type or print all information)

General Information

User Name _____

User Address _____

User Telephone/Fax _____

Owner of Property (if different) _____

Owner's Address _____

Owner's Telephone/Fax _____

Onsite Supervisor _____ Title _____

Supervisor Work Phone _____ After-Hours Phone _____

Property Location (Street Address) _____

Property Use _____

Property Description (Describe Facilities) _____

_____

Intended Use for Recycled Water _____

Proposed Number of Service Connections _____ Size of Service(s) _____ inches

Estimated Average Annual Use _____ gallons ÷ 325,851 = _____ acre-feet per year

Time of use for recycled water will be from _____ to _____ daily.

For Irrigation Use

Total Irrigated Area (per this Application) _____ acres Projected Monthly Usage _____ gallons

Proposed Average Application Rate _____ gpm Duration _____ hours

Maximum Flow Rate _____ gpm Duration _____ hours

For Process Use

Average Demand _____ gpm Peak Demand _____ gpm

Daily Shift _____ gallons Projected Monthly Usage _____ gallons

Required Documents (attached or prior submittals)

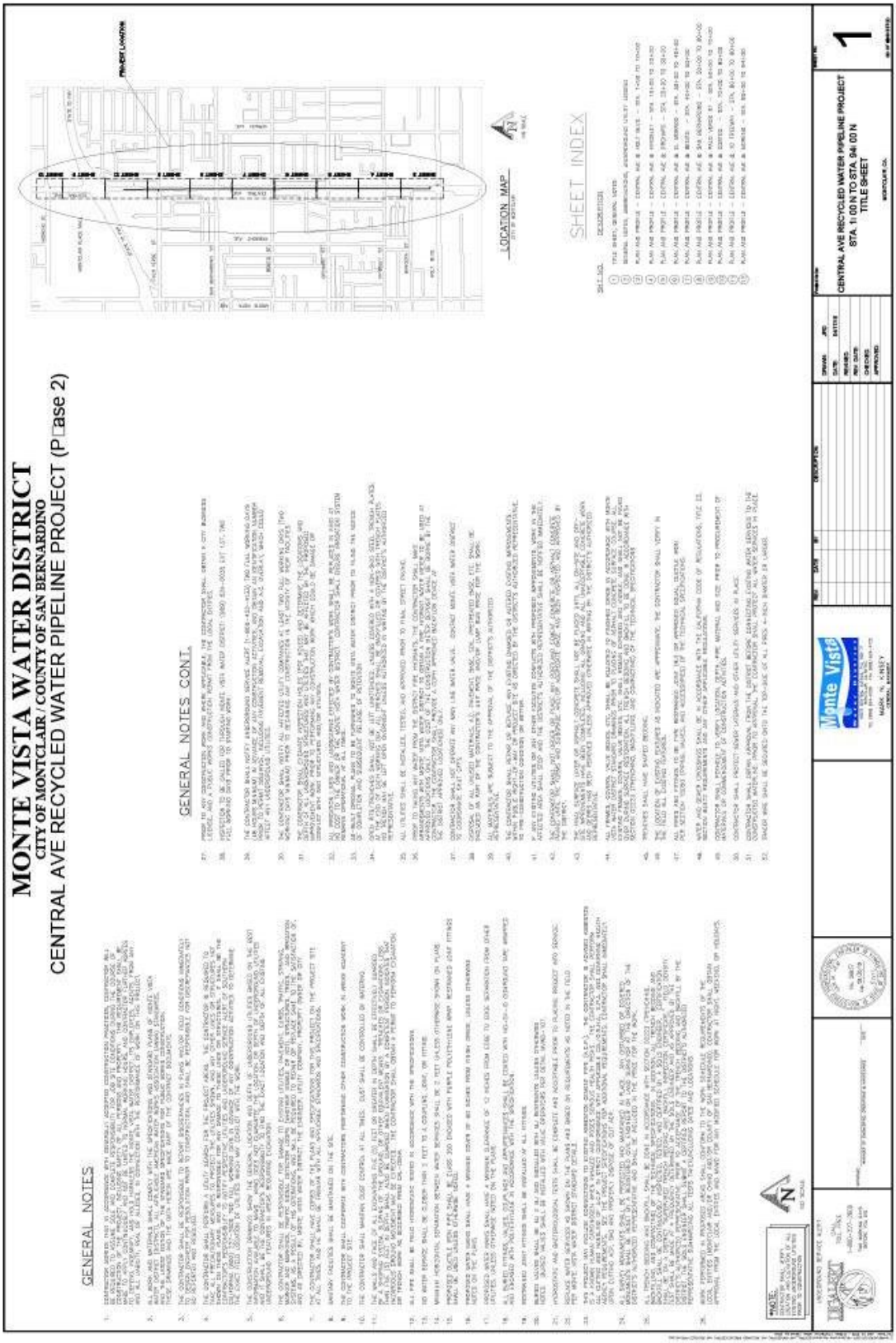
☐ "As-Built" Drawings or Proposed Facility Plans ☐ Map or Description of Proposed Meter Location

_____

Authorized Signature

Exhibit 3

Title 22 Engineering Report



MONTE VISTA WATER DISTRICT

CITY OF MONTCLAIR / COUNTY OF SAN BERNARDINO

CENTRAL AVE RECYCLED PIPELINE PROJECT (P□ase 2)

TRAFFIC CONTROL PLAN GENERAL NOTES

1. IT IS THE RESPONSIBILITY OF THE CONTRACTOR PERFORMING WORK ON A PUBLIC STREET TO INSTALL AND MAINTAIN THE TRAFFIC CONTROL DEVICES, AS WELL AS ANY SUCH ADDITIONAL TRAFFIC CONTROL DEVICES AS MAY BE REQUIRED BY THE LOCAL ENTITIES WITH JURISDICTION TO ENSURE THE SAFE MOVEMENT OF TRAFFIC AND PEDESTRIANS THROUGH OR AROUND THE WORK AREA AND PROVIDE MAXIMUM PROTECTION AND SAFETY TO CONSTRUCTION WORKERS.

2. FLASHING WARNING LIGHTS ARE TO WARN DRIVERS OF APPROACHING CONSTRUCTIONS AND STEADY BURNING LIGHT ARE TO DELINEATE THE CHANGE OF STREET ALIGNMENT AND BARRICADES ARE TO PROTECT THE WORK AREAS. FOR NIGHT TIME DELINEATION, ALL BARRICADES AND DELINEATORS SHALL BE EQUIPPED WITH BATTERY -POWERED FLASHING/STEADY BURN WARNING LIGHTS.

3. THE CONTRACTOR SHALL NOTIFY THE LOCAL ENTITIES WITH JURISDICTION AT LEAST TEN (10) WORKING DAYS IN ADVANCE OF IMPLEMENTING ANY CONSTRUCTION DETOUR IN THEIR PERSPECTIVE AREAS.

4. ALL SIGNS, DELINEATORS, BARRICADES, ETC., SHALL CONFORM TO THE STANDARD PLANS AND SPECIFICATIONS AND THE CALIFORNIA MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.

5. THE LOCAL ENTITIES WITH JURISDICTION RESERVE THE RIGHT TO OBSERVE THESE TRAFFIC CONTROL PLANS IN USE AND TO MAKE ANY NECESSARY CHANGES AS FIELD CONDITIONS WARRANT. ANY CHANGES SHALL SUPERSEDE THESE PLANS AND WILL BE DONE SOLELY AT THE CONTRACTOR'S EXPENSE.

6. THE CONTRACTOR SHALL NOTIFY RTA (909) 884-0850 OR ANY OTHER INTERESTED TRANSIT SERVICES (BUSES, NURSES, DIAL-A-RIDER, PERSONAL TRANSIT, ETC.) AT LEAST 5 WORKING DAYS PRIOR TO START OF CONSTRUCTION WHICH WILL INTERFERE WITH NORMAL BUS SERVICE.

7. ALL TRAFFIC CONTROL DEVICES SHALL BE KEPT IN THEIR PROPER POSITION AT ALL TIMES, AND SHALL BE REPAIRED, REPLACED, OR CLEANED AS NECESSARY TO PRESERVE THEIR APPEARANCE AND CONTINUITY.

8. THE CONTRACTOR SHALL COVER ALL EXISTING SPEED LIMIT SIGNS DURING CONSTRUCTION IF AUTHORIZED BY THE LOCAL ENTITIES WITH JURISDICTION.

9. FIVE- FOOT CLEARANCE SHALL BE MAINTAINED BETWEEN OPEN EXCAVATION AND ADJACENT MOVING TRAFFIC LANE EXCEPT AS SHOWN ON TRAFFIC CONTROL PLANS. OPEN TRENCH WITH LESS THAN 5-FOOT CLEARANCE SHALL BE COVERED WITH STEEL PLATE FOR TRAFFIC OR BACK-FILLED IMMEDIATELY AFTER EXCAVATION.

10. THE NAME AND PHONE NUMBER (24-HOUR AVAILABILITY) OF THE CONTRACTOR'S SAFETY COORDINATOR AND TRAFFIC CONTROL DEVICE MAINTENANCE MANAGER SHALL BE PROVIDED TO THE DISTRICT AND ANY CHANGE IN ASSIGNED PERSONNEL OR PHONE NUMBER SHALL BE REPORTED IMMEDIATELY TO THE DISTRICT.

11. ALL DELINEATORS SHALL BE TRAFFIC CONES WITH 28" HEIGHT MINIMUM AND A 12" MINIMUM WHITE REFLECTIVE SLEEVE.

12. CONTRACTOR SHALL REPAIR OR REPLACE ALL DAMAGED OR DESTROYED TRAFFIC SIGNAL LOOPS, PAVEMENT MARKINGS AND TRAFFIC STRIPES.

13. ALL CONFLICTING STRIPES, PAVEMENT MARKINGS AND LEGENDS SHALL BE COVERED BY BLACK DETOUR GRADE TAPE PRIOR TO ANY CHANGE IN THE TRAFFIC PATTERN.

14. CONTRACTOR SHALL POST ADVANCE -WARNING SIGNS AS SHOWN AT LEAST TWO WEEKS PRIOR TO CONSTRUCTION.

15. CONTRACTOR SHALL PROVIDE A TRAFFIC CONTROL PLAN FOR REVIEW AND APPROVAL. THE TRAFFIC CONTROL PLAN IS TO SHOW TOPOGRAPHIC FEATURES WITHIN 300 FEET ON EACH DIRECTION OF THE PROJECT. THE PLAN IS TO BE PREPARED, SIGNED AND STAMPED BY A REGISTERED CALIFORNIA TRAFFIC ENGINEER, ACCEPTABLE AT THE DISCRETION OF THE LOCAL ENTITIES WITH JURISDICTION PRIOR TO BEGINNING WORK ON TRAFFIC CONTROL PLANS.

16. THE CONTRACTOR IS RESPONSIBLE FOR REPAINING ALL STRIPING, PAVEMENT MARKINGS, TRAFFIC LOOPS, ETC. REMOVED/DAMAGED DUE TO CONSTRUCTION ACTIVITIES. CONTRACTOR SHALL PROTECT ALL TRAFFIC LOOPS/SIGNALS IN PLACE.

17. ANYONE DAMAGE IS CAUSED BY THE CONTRACTOR'S OPERATIONS, THE CONTRACTOR SHALL AT HIS OWN EXPENSE, REPAIR OR REPLACE DAMAGED FACILITIES PROMPTLY.

18. ALL WORK, SIGNING, STRIPING AND TRAFFIC COUNTS, SHALL BE IN CONFORMANCE WITH THE DEPARTMENT STANDARD PLANS AND SPECIFICATIONS AND THE CALIFORNIA MUTCD, LATEST EDITIONS.

19. ALL TRENCHES SHALL BE COVERED WITH STEEL PLATES AT THE END OF EACH WORKDAY DURING CONSTRUCTION.

CITY OF MONTCLAIR CONSTRUCTION NOTES:

1. PRIOR TO ANY CONSTRUCTION ACTIVITY WITHIN THE CITY OF MONTCLAIR CITY LIMITS, CONTRACTOR SHALL OBTAIN A CONSTRUCTION PERMIT.
2. PRIOR TO ANY CONSTRUCTION ACTIVITY WITHIN THE CITY OF MONTCLAIR CITY LIMITS, CONTRACTOR SHALL CONTACT THE CITY'S PUBLIC WORKS INSPECTOR TO ARRANGE A PRECONSTRUCTION MEETING.
3. ALL STREET WORK WITHIN THE CITY OF MONTCLAIR CITY LIMITS SHALL CONFORM TO THE "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (WHITEBOOK)", 2006 EDITION (INCLUDING THE LATEST SUPPLEMENTAL AMENDMENTS THERETO), THAT MAY BE USED IN LIEU OF CITY STANDARD DRAWINGS, "STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION", 1997 EDITION (INCLUDING THE LATEST SUPPLEMENTAL AMENDMENTS THERETO), THAT MAY BE USED IN LIEU OF ANY OTHER STANDARD DRAWINGS SHALL REQUIRE PRIOR APPROVAL FROM THE CITY OF MONTCLAIR. ALL WORK SHALL BE PERFORMED AND COMPLETED TO THE SATISFACTION OF THE CITY ENGINEER OR HIS APPOINTED REPRESENTATIVE.
4. STREET RESURFACING REQUIREMENTS SHALL BE DETERMINED BY THE CITY ENGINEER OR HIS APPOINTED REPRESENTATIVE. AFTER WATER LINES HAVE BEEN INSTALLED AND BACKFILLED, STREET MAY BE REQUIRED TO HAVE A SEAL COAT APPLIED AT THE OPTION OF THE CITY ENGINEER OR APPOINTED REPRESENTATIVE. TYPE OF SEAL COAT IS TO BE DETERMINED BY THE CITY ENGINEER OR HIS APPOINTED REPRESENTATIVE.
5. ALL PAVEMENT MARKINGS, STRIPING, LEGENDS, RAISED PAVEMENT MARKERS, LANE DELINEATORS, AND/OR OTHER TRAFFIC CONTROL DEVICES SHALL BE REQUIRED, REPLACED, RESTORED, OR OTHERWISE RECTIFIED AS DETERMINED NECESSARY BY THE CITY ENGINEER OR HIS APPOINTED REPRESENTATIVE.
6. SECTION 4216 AND 4217 OF THE GOVERNMENT CODE REQUIRE A DIG ALERT IDENTIFICATION NUMBER BE ISSUED BEFORE THE REPORT WILL BE VALID. FOR YOUR DIG ALERT ID NUMBER, CALL UNDERGROUND SERVICE ALERT (TOLL FREE) AT (811) TWO WORKING DAYS PRIOR TO EXCAVATION.
7. THE FINAL PAVEMENT OR SURFACE LAYER OF ASPHALTIC CONCRETE ROADWAY PAVEMENT SHALL NOT BE PLACED UNTIL ALL UTILITIES WITHIN THE ROADWAY HAVE BEEN INSTALLED, COMPACTED, TESTED, AND ACCEPTED BY THE CITY; ALL ON-SITE IMPROVEMENTS INCLUDING ALL GRADING, LANDSCAPING, AND IRRIGATION HAVE BEEN COMPLETED; AND ALL ROADWAY IMPROVEMENTS ARE REMOVED AND REPLACED TO THE SATISFACTION OF THE CITY.
8. CONTRACTOR SHALL COMPLY WITH AND BE SOLELY LIABLE FOR ALL APPLICABLE APWA REQUIREMENTS.

ABBREVIATIONS

AB	AGGREGATE BASE	D	DIA	P	PACKER
ABAN	ABANDONED	DIAGO	DIAGONAL	RCP	REINFORCED CONCRETE PIPE
AC	ASPHALT CONCRETE	DIA	DAUGE	RCB	REINFORCED CONCRETE BOX
ACP	ASBESTOS CEMENT PIPE	DKW	DRIVEWAYS	REBAR	REINFORCING STEEL
APPROX	APPROXIMATE	DV	GATE VALVE	REQ'D	REQUIRED
AV	AIR RELEASE & VACUUM RELIEF VALVE	H	HOUSE	RJ	RESTRAINED JOINT
AVT	AIR VENT	HWY	HIGHWAY	RT	RING TYPE
BC	BEGIN CURVE	IBW	INFRARED	RW	RECLAIMED WATER
BF	BLIND FLANGE	ID	INSIDE DIAMETER	R/W	RIGHT-OF-WAY
BFV	BUTTERFLY VALVE	INV (EL)	INVERT ELEVATION	S	SLOPE (DOWNWAY OF PIPELINE)
BO	BLOWOFF ASSEMBLY	LF	LINEAR FEET	SCE	SOUTHERN CALIFORNIA EDISON
BP	BOLLARD PIPE	M	METER	SCH	SCHEDULE
BVC	BEGIN VERTICAL CURVE	MB	GAS METER	SD	STORM DRAIN
C	COPPER PIPE	MG	MILLION GALLONS	SHT	SHEET
CB	CATCH BASIN	MH	MANHOLE	SJ	SOLDER JOINT
CI	CAST IRON	MIN	MINIMUM	SL	STREET LIGHT CONDUIT
CL	COPPER LINE	MJ	MECHANICAL JOINT	SMH	SANITARY SEWER MANHOLE
CMLCS	CEMENT MORTAR LINED CONTROL STEEL	MOA	MACHINED OVER ALL	SS	SANITARY SEWER
CO	CLEAN OUT (SEWER)	MP	METER PEDESTAL	STA	STATION
CP	CATHODIC PROTECTION	MV	METERING VAULT	STD	STANDARD
CS	CORPORATION STOP	NAP	NOT A PART	STL	STEEL
℄	COUTERLINE	NTS	NOT TO SCALE	TS	TRAFFIC SIGNAL CONDUIT
DIA	DIAMETER	NIC	NOT IN CONTRACT	TYP	TYPICAL
DIP	DUCTILE IRON PIPE	OC	ON CENTER	UG	UNDERGROUND
DWG	DRAWING	OD	OUTSIDE DIAMETER	VCP	VITRIFIED CLAY PIPE
E	ELECTRIC	PC	PLAN END	VERT	VERTICAL
EC	END CURVE	POC	POINT OF COMPOUND CURVE	WJ	WELDED JOINTS
EASMT	EASEMENT	PRC	POINT OF REVERSE CURVE		
EVC	END VERTICAL CURVE	PI	POINT OF INTERSECTION		
EXIST	EXISTING	PH	POTHOLE		
F	FLARE	PL	PLASTIC LINE		
FO	FIBER OPTICS	PP	POWER POLE		
FL	FLOWLINE	PT	POINT		
FLG	FLANGE	PVC	POLYVINYL CHLORIDE		
FM	FORCE MAIN	PVMT	PAVEMENT		
FF	FINISHED FLOOR				
FG	FINISHED GRADE				
FS	FINISHED SURFACE				
FUT	FUTURE				

UNDERGROUND UTILITY LEGEND

	PROPOSED POTABLE WATER MAIN
	EXIST. POTABLE WATER
	EXIST. POTABLE WATER (ABANDONED)
	EXIST. RECLAIMED WATER
	EXIST. SANITARY SEWER (W/MANHOLES)
	EXIST. STORM DRAIN
	EXIST. SO CAL GAS DEPT. MAIN
	EXIST. TELEPHONE CONDUITS
	EXIST. ELECTRIC CONDUITS
	EXIST. STREET LIGHT CONDUITS
	EXIST. TRAFFIC SIGNAL CONDUITS
	EXIST. FIBER OPTIC LINE
	EXIST. OIL/GAS PIPELINES

NOTE:
CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION

NO SCALE

UNDERGROUND SERVICE ALERT
DIGALERT
CALL TOLL FREE 1-800-227-2600
THE WORKING DAYS BEFORE YOU DIG

APPROVED: MANAGER OF ENGINEERING, PLANNING & INNOVATIONS — DATE

No. 38870 Exp. 09/30/19 CIVIL STATE OF CALIFORNIA

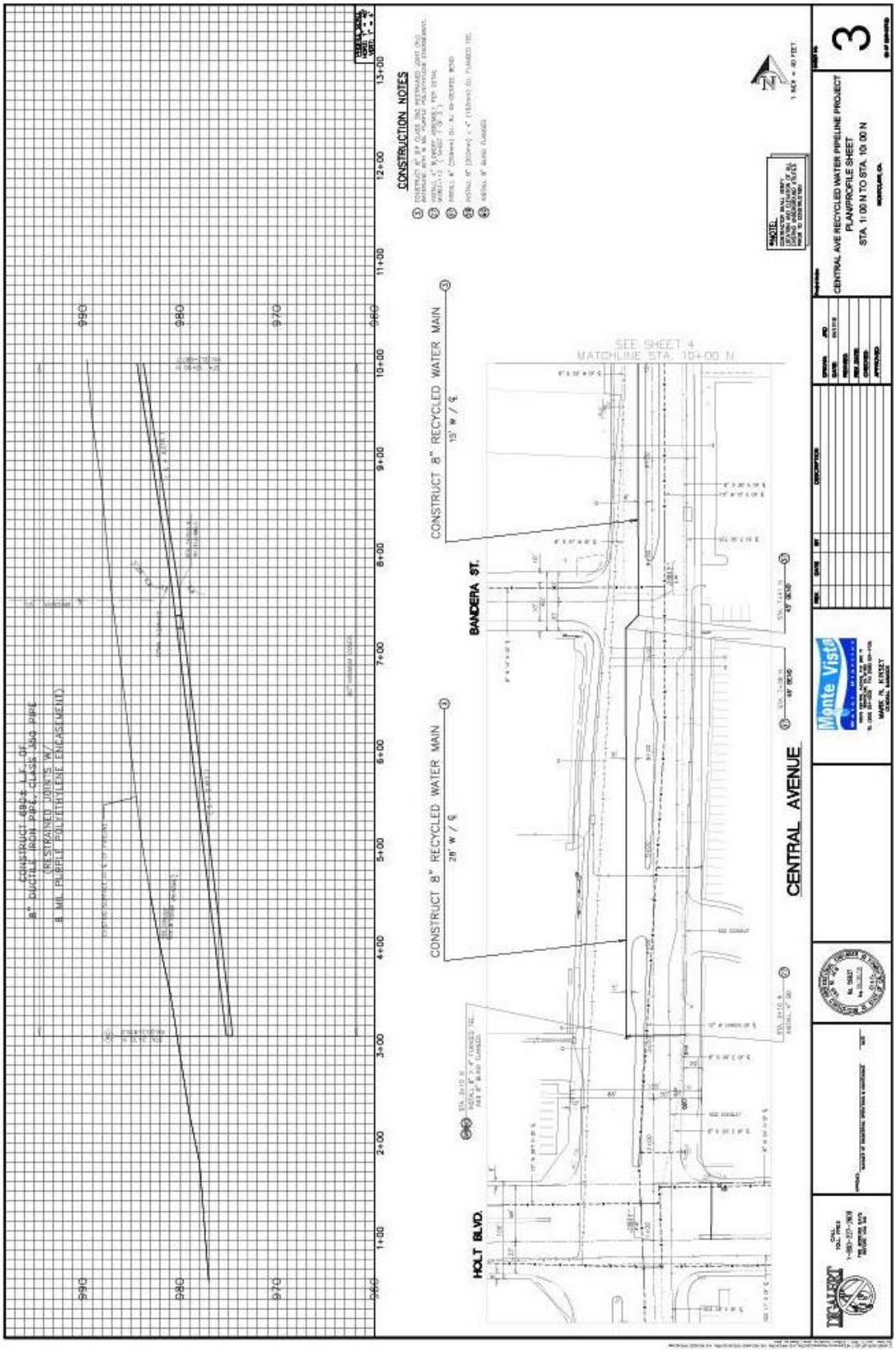
Monte Vista Water District
10575 CENTRAL AVENUE, P.O. BOX 71080
MONTCLAIR, CA 91763
TEL (909) 624-0500 FAX (909) 625-4722
MARK W. KINSEY
GENERAL MANAGER

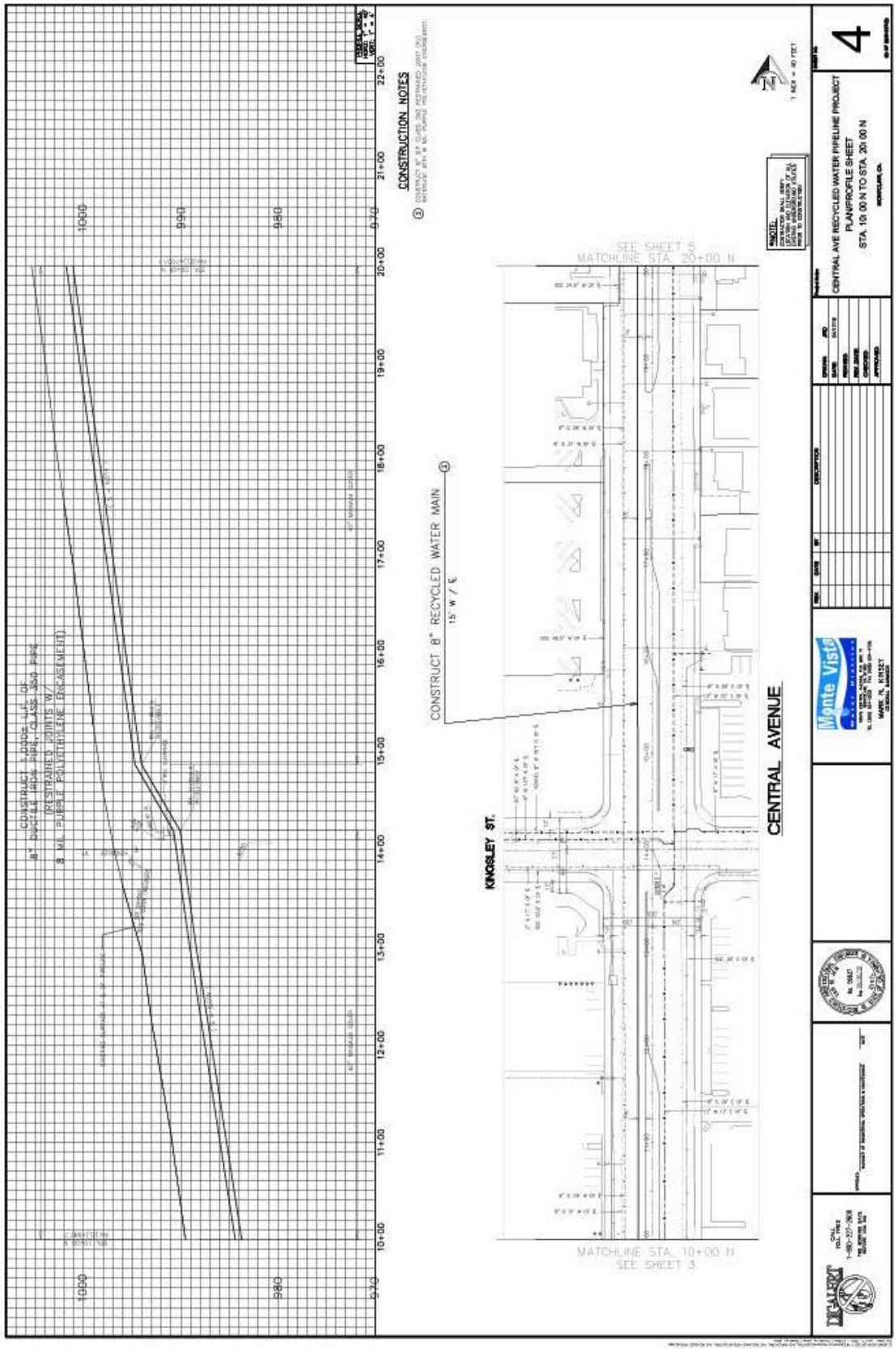
REV	DATE	BY	DESCRIPTION

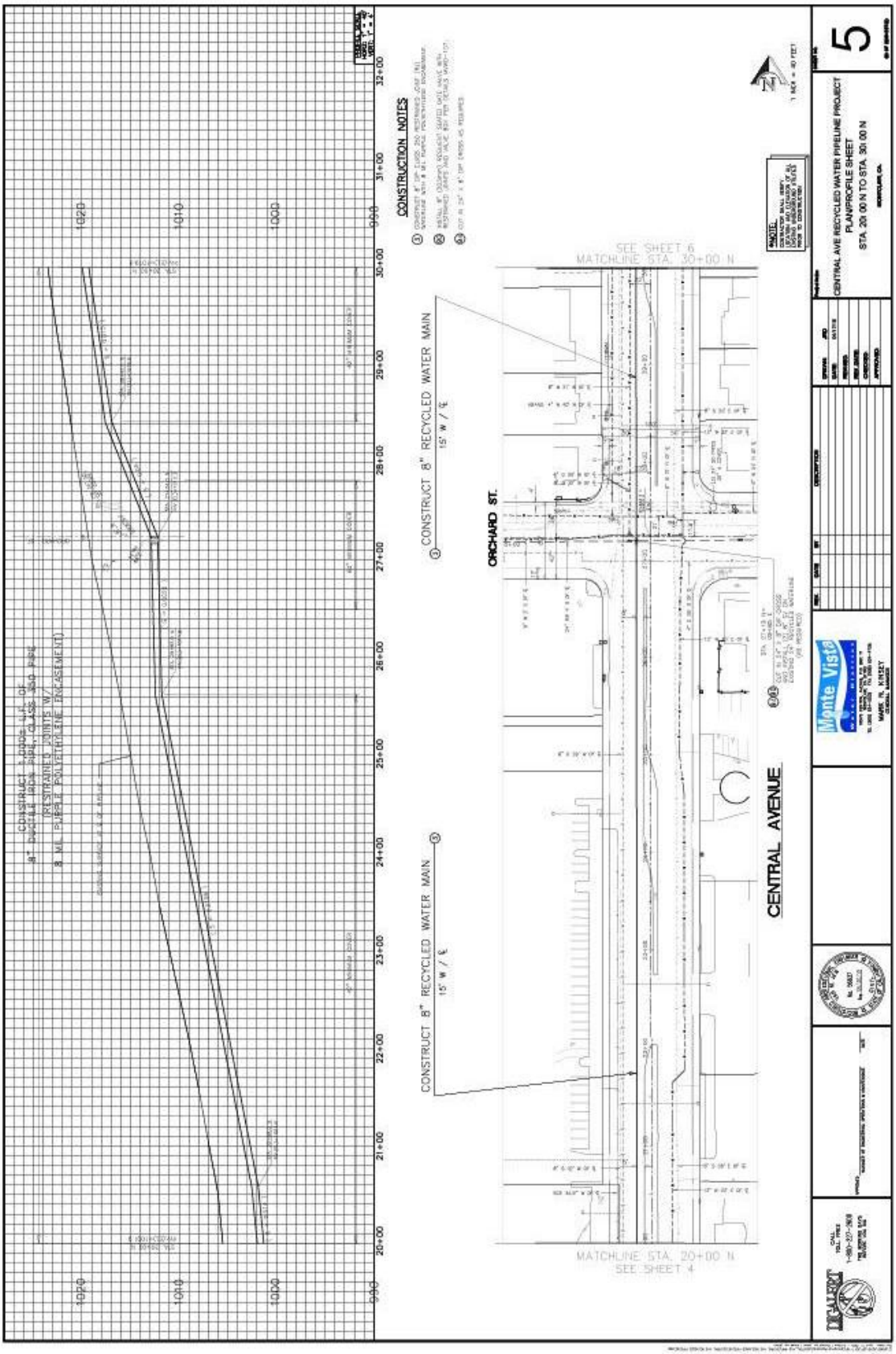
DRAWN: JRD
DATE: DATE
REVISED:
REV DATE:
CHECKED:
APPROVED:

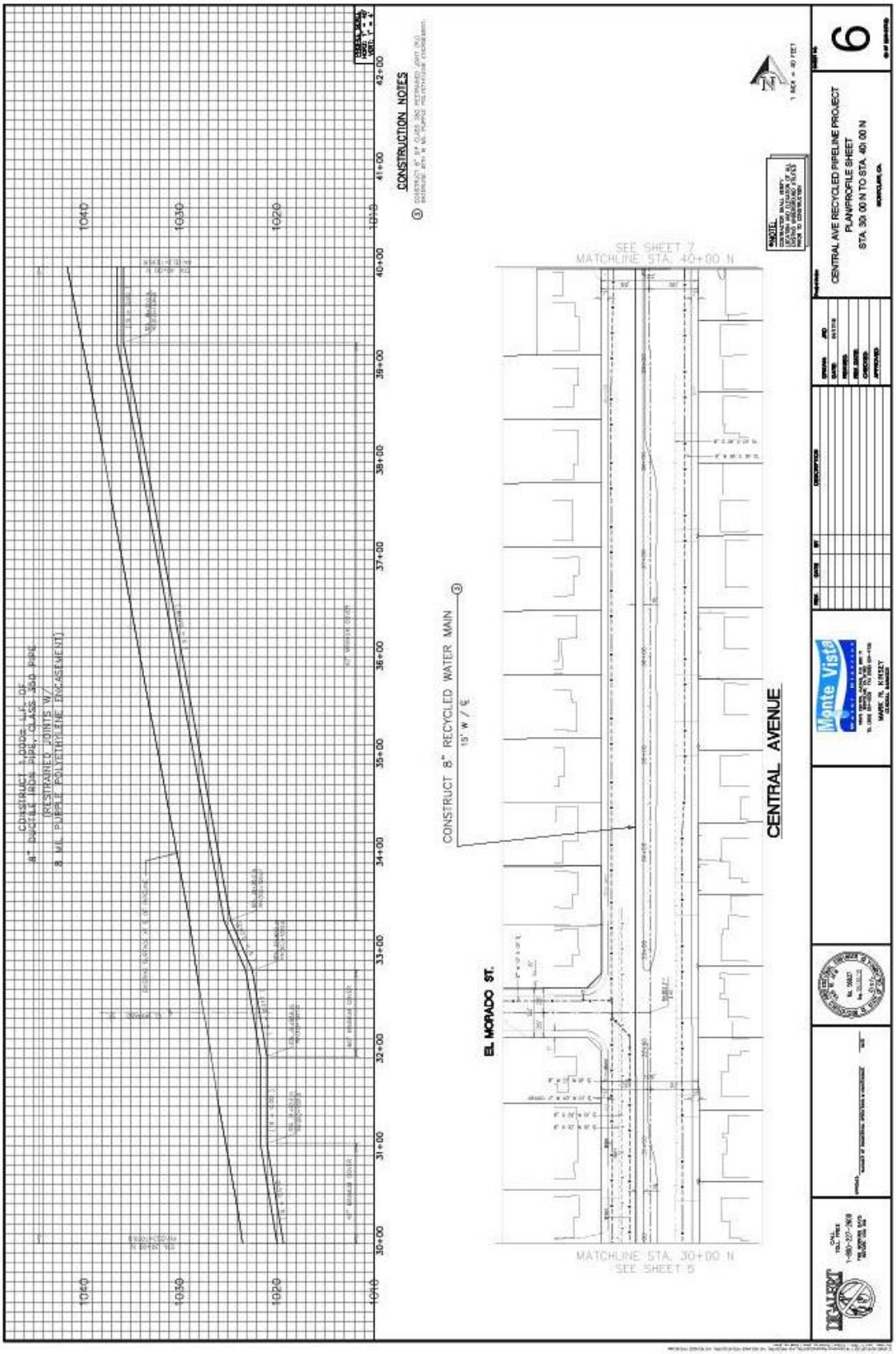
Project title:
CENTRAL AVE RECYCLED WATER PIPELINE PROJECT
GENERAL NOTES, ABBREVIATIONS, LEGEND
MONTCLAIR, CA.

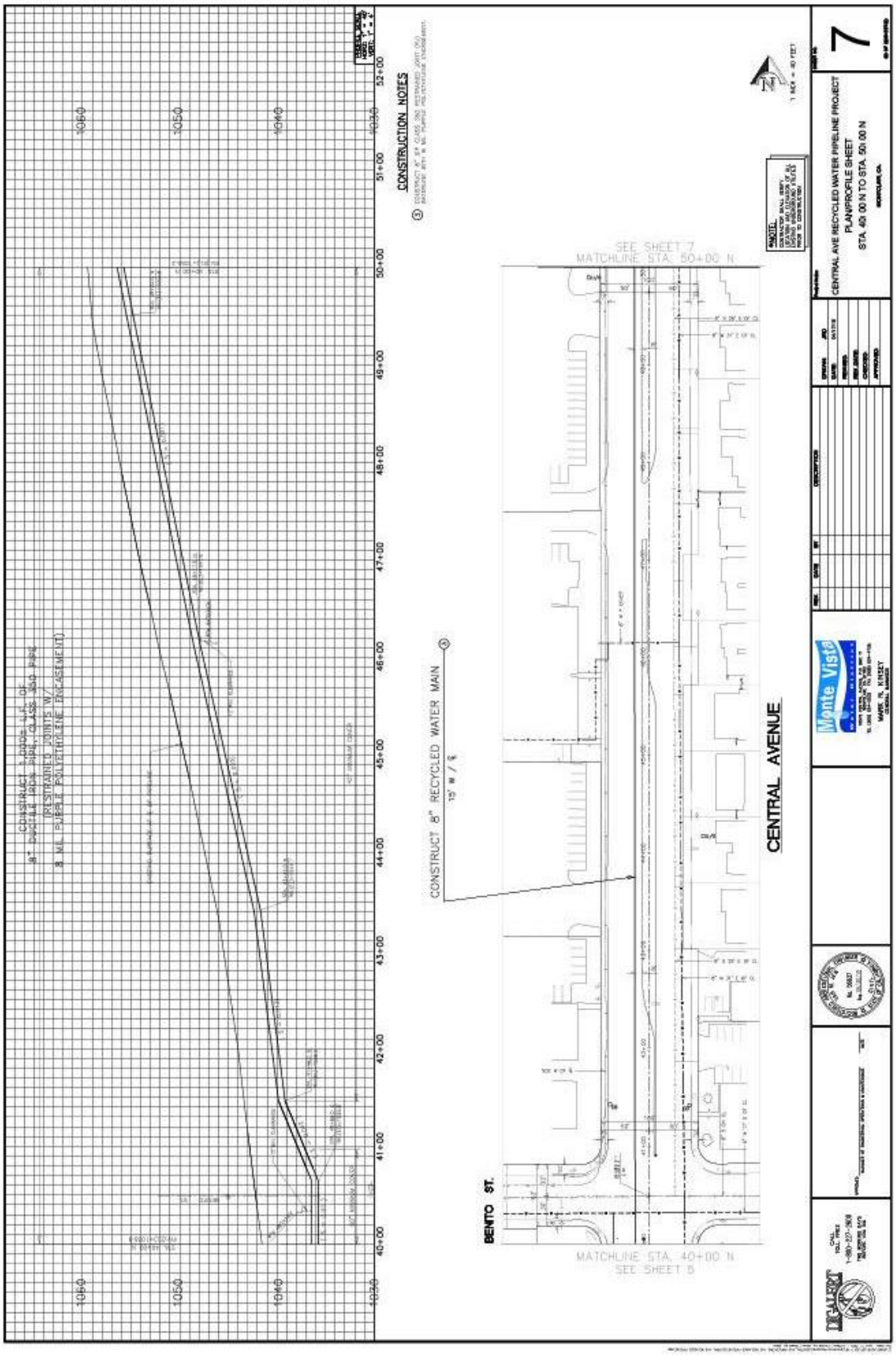
SHEET No.
2
OF 41 SHEETS

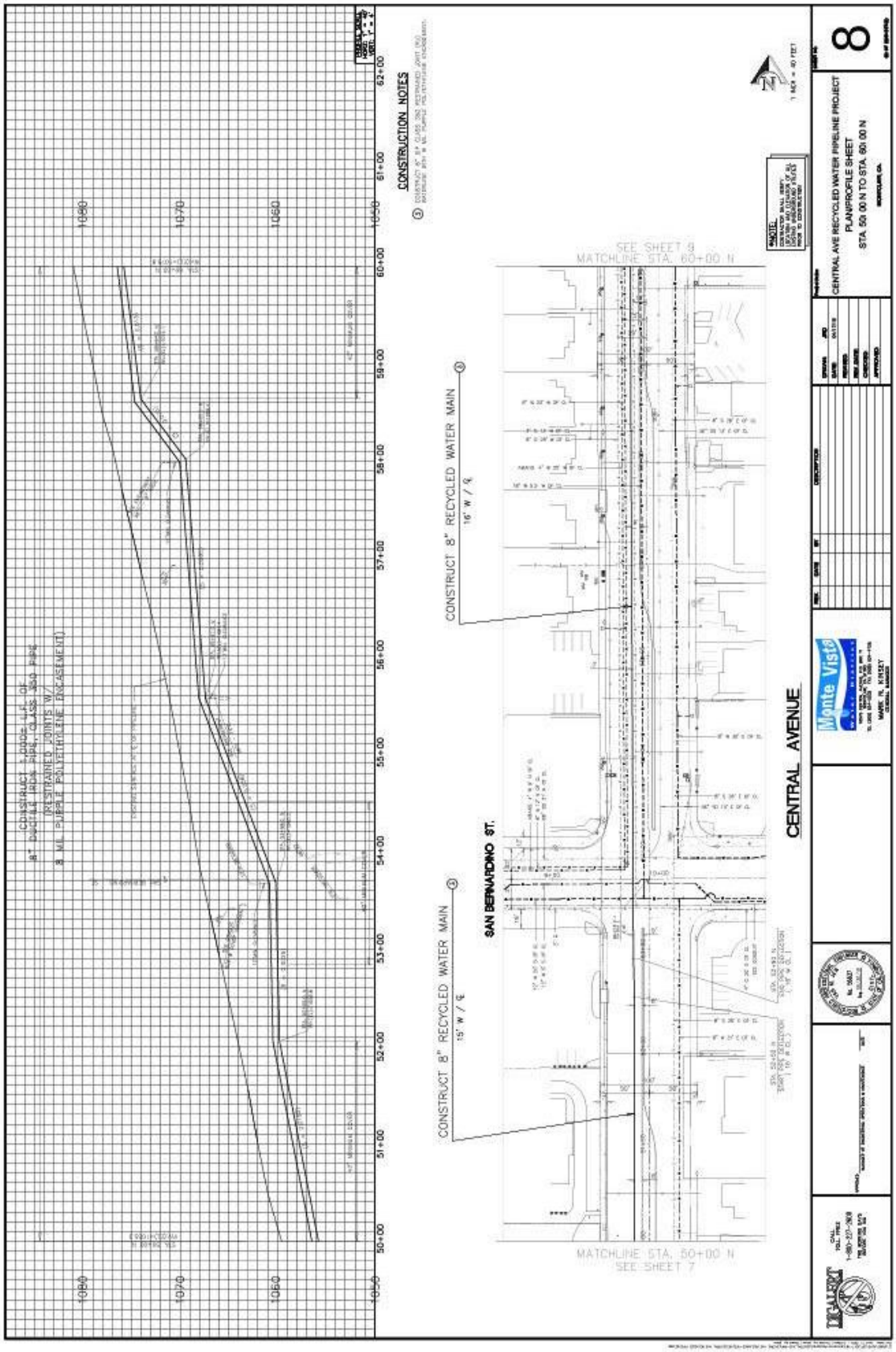

CONSTRUCTION NOTES
CONSTRUCT 8" RECYCLED WATER MAIN
15' W / ℄
CONSTRUCT 8" RECYCLED WATER MAIN
20' W / ℄
SEE SHEET 4
MATCHLINE STA. 10+00 N
BANDERA ST.
HOLT BLVD.
CENTRAL AVENUE
CENTRAL AVE RECYCLED WATER PIPELINE PROJECT
PLAN/PROFILE SHEET
STA. 1+00 N TO STA. 10+00 N
3

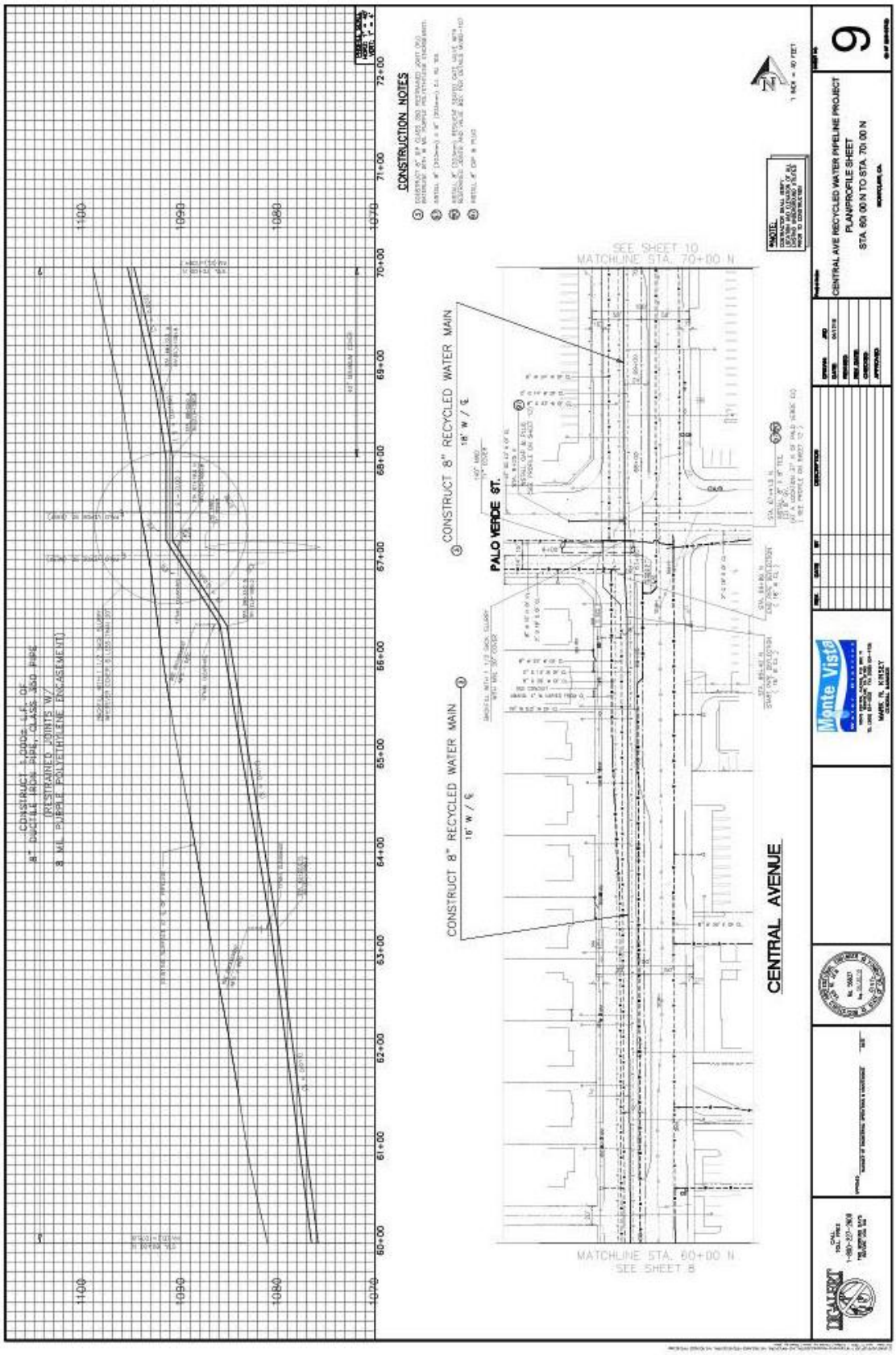

CONSTRUCTION NOTES
CONSTRUCT 8" RECYCLED WATER MAIN
15' W / E
KINGSLEY ST.
CENTRAL AVENUE
SEE SHEET 5
MATCHLINE STA. 20+00 N
MATCHLINE STA. 10+00 N
SEE SHEET 3
CENTRAL AVE RECYCLED WATER PIPELINE PROJECT
PLAN/PROFILE SHEET
STA. 10+00 N TO STA. 20+00 N
4

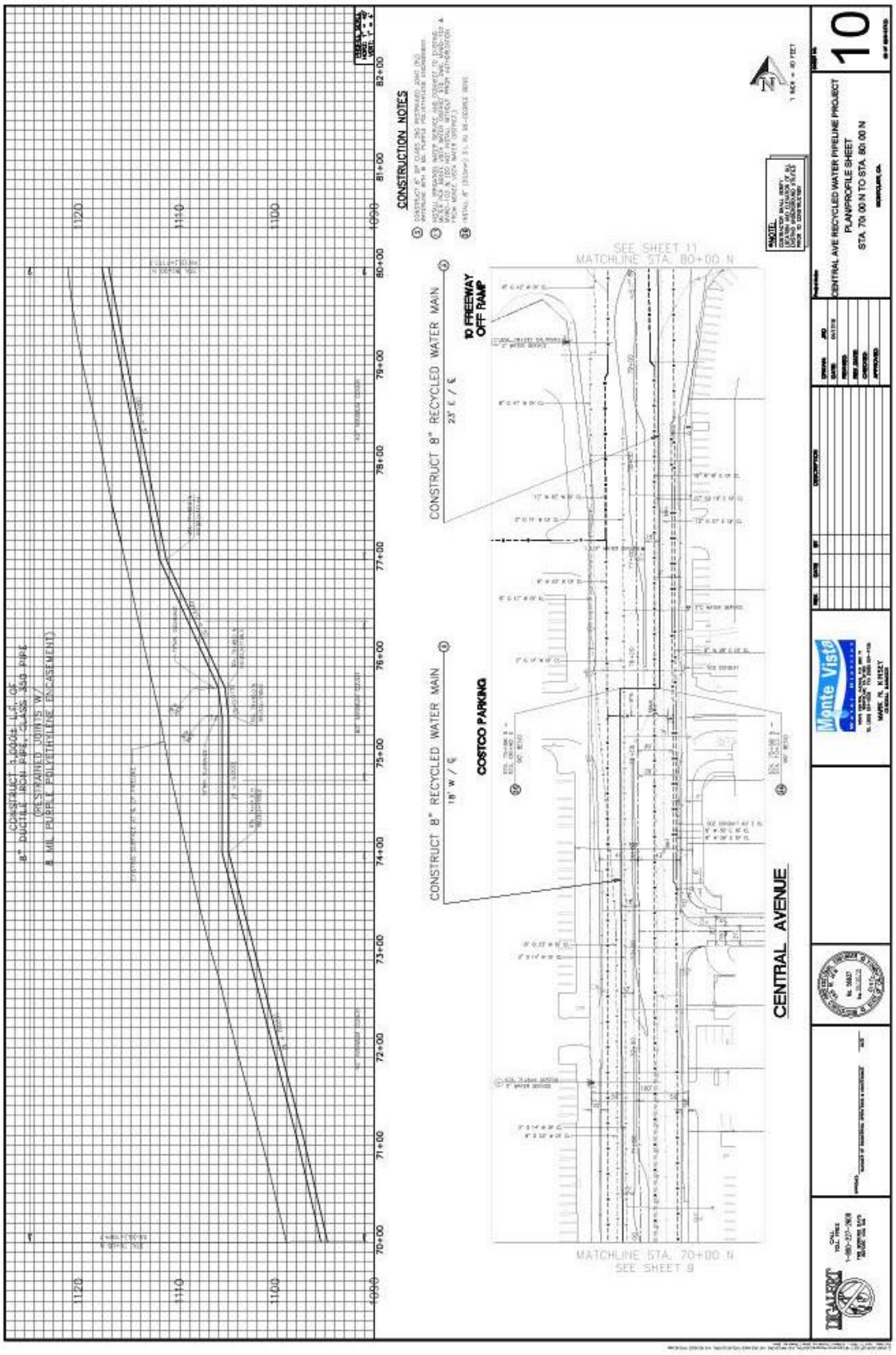

CONSTRUCTION NOTES
CONSTRUCT 8" RECYCLED WATER MAIN
15' W / ℄
ORCHARD ST.
CENTRAL AVENUE
SEE SHEET 6
MATCHLINE STA. 30+00 N
MATCHLINE STA. 20+00 N
SEE SHEET 4
CENTRAL AVE RECYCLED WATER PIPELINE PROJECT
PLAN/PROFILE SHEET
STA. 20+00 N TO STA. 30+00 N
5


CONSTRUCTION NOTES
CONSTRUCT 8" RECYCLED WATER MAIN
15' W / ℄
EL MORADO ST.
CENTRAL AVENUE
SEE SHEET 7
MATCHLINE STA. 40+00 N
MATCHLINE STA. 30+00 N
SEE SHEET 5
CENTRAL AVE RECYCLED PIPELINE PROJECT
PLAN/PROFILE SHEET
STA. 30+00 N TO STA. 40+00 N
6


CONSTRUCT 8" DUCTILE IRON PIPE, CLASS 350 PIPE
(RESTRAINED JOINTS W/
8 MIL PURPLE POLYETHYLENE ENCASEMENT)
CONSTRUCTION NOTES
SEE SHEET 7
MATCHLINE STA. 50+00 N
CONSTRUCT 8" RECYCLED WATER MAIN
BENITO ST.
CENTRAL AVENUE
MATCHLINE STA. 40+00 N
SEE SHEET 5
CENTRAL AVE RECYCLED WATER PIPELINE PROJECT
PLAN/PROFILE SHEET
STA. 40+00 N TO STA. 50+00 N
7
Monte Vista


CONSTRUCTION NOTES
CONSTRUCT 8" RECYCLED WATER MAIN
16' W / ℄
CONSTRUCT 8" RECYCLED WATER MAIN
15' W / ℄
SAN BERNARDINO ST.
CENTRAL AVENUE
SEE SHEET 9
MATCHLINE STA. 60+00 N
MATCHLINE STA. 50+00 N
SEE SHEET 7
CENTRAL AVE RECYCLED WATER PIPELINE PROJECT
PLAN/PROFILE SHEET
STA. 50+00 N TO STA. 60+00 N
8
Monte Vista


CONSTRUCTION NOTES
CONSTRUCT 8" RECYCLED WATER MAIN
PALO VERDE ST.
CENTRAL AVENUE
SEE SHEET 10
MATCHLINE STA. 70+00 N
MATCHLINE STA. 60+00 N
SEE SHEET 8
CENTRAL AVE RECYCLED WATER PIPELINE PROJECT
PLAN/PROFILE SHEET
STA. 60+00 N TO STA. 70+00 N
9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8" DUCTLE IRON PIPE, CLASS 350 PIPE
(RESTRAINED JOINTS W/
8 MIL PURPLE POLYETHYLENE ENCASEMENT)
CONSTRUCTION NOTES
CONSTRUCT 8" RECYCLED WATER MAIN
23' E / ℄
10 FREEWAY OFF RAMP
CONSTRUCT 8" RECYCLED WATER MAIN
18' W / ℄
COSTCO PARKING
CENTRAL AVENUE
SEE SHEET 11
MATCHLINE STA. 80+00 N
MATCHLINE STA. 70+00 N
SEE SHEET 9
CENTRAL AVE RECYCLED WATER PIPELINE PROJECT
PLAN/PROFILE SHEET
STA. 70+00 N TO STA. 80+00 N
10
Monte Vista
1120
1110
1100
1090
70+00
71+00
72+00
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78+00
79+00
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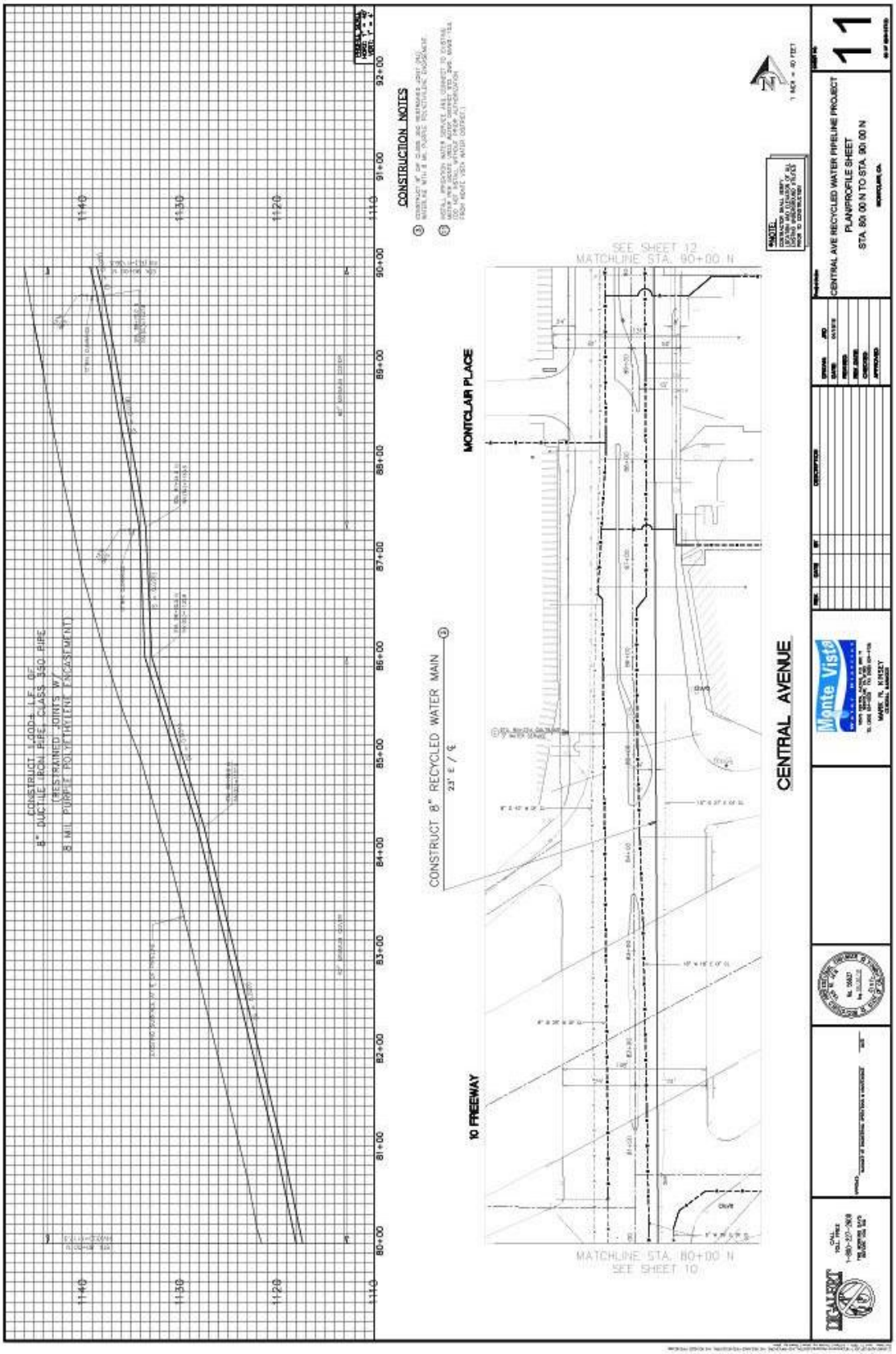
82+00


CONSTRUCT 1,000± L.F. OF
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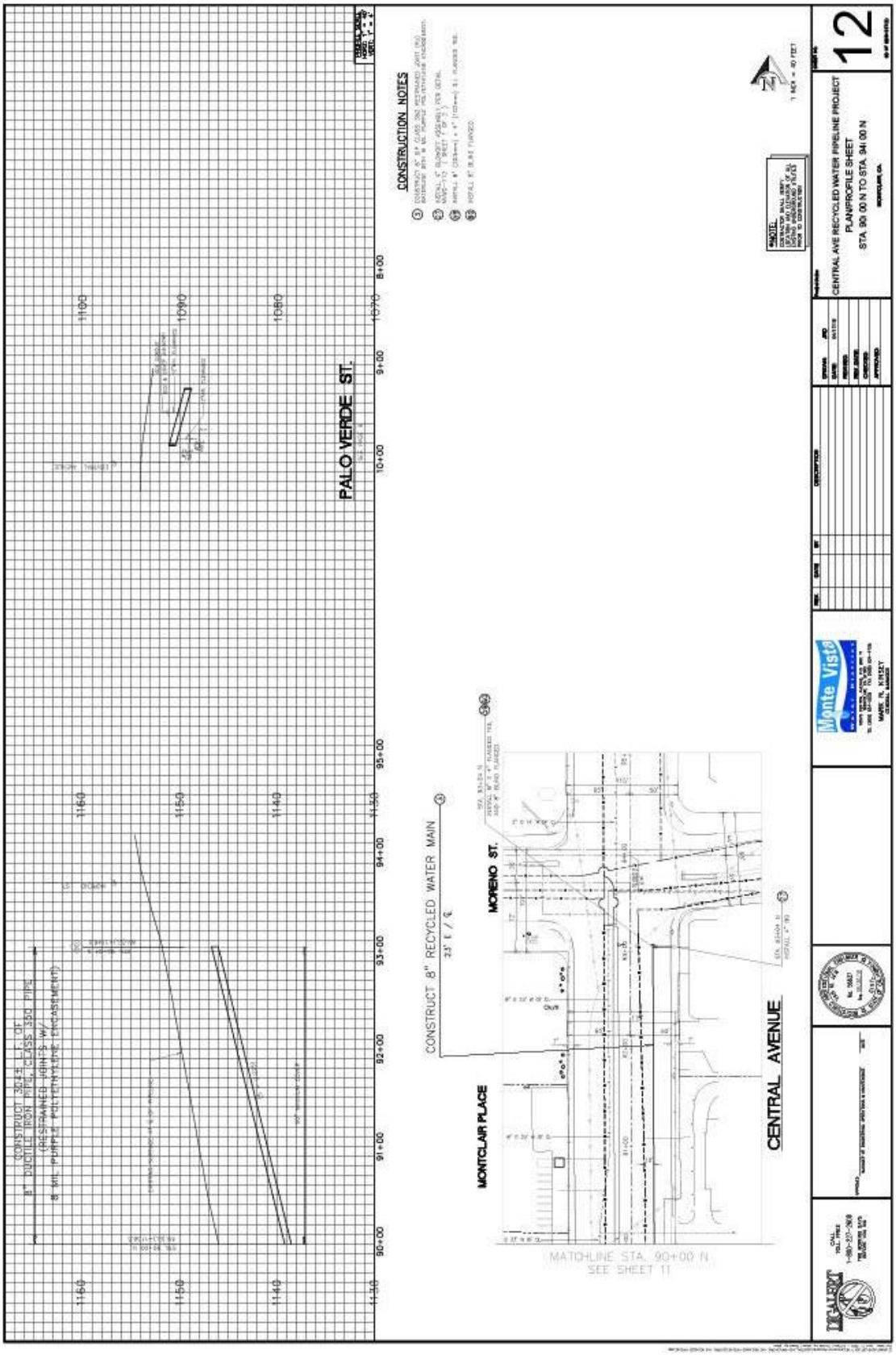
(RESTRAINED JOINTS W/
8 MIL POLYETHYLENE ENCASEMENT)
CONSTRUCTION NOTES
MONTCLAIR PLACE
10 FREEWAY
CONSTRUCT 8" RECYCLED WATER MAIN
23' E / ℄
CENTRAL AVENUE
SEE SHEET 12
MATCHLINE STA. 80+00 N
MATCHLINE STA. 80+00 N
SEE SHEET 10
CENTRAL AVE RECYCLED WATER PIPELINE PROJECT
PLAN/PROFILE SHEET
STA. 80.00 N TO STA. 90.00 N
11


CONSTRUCTION NOTES
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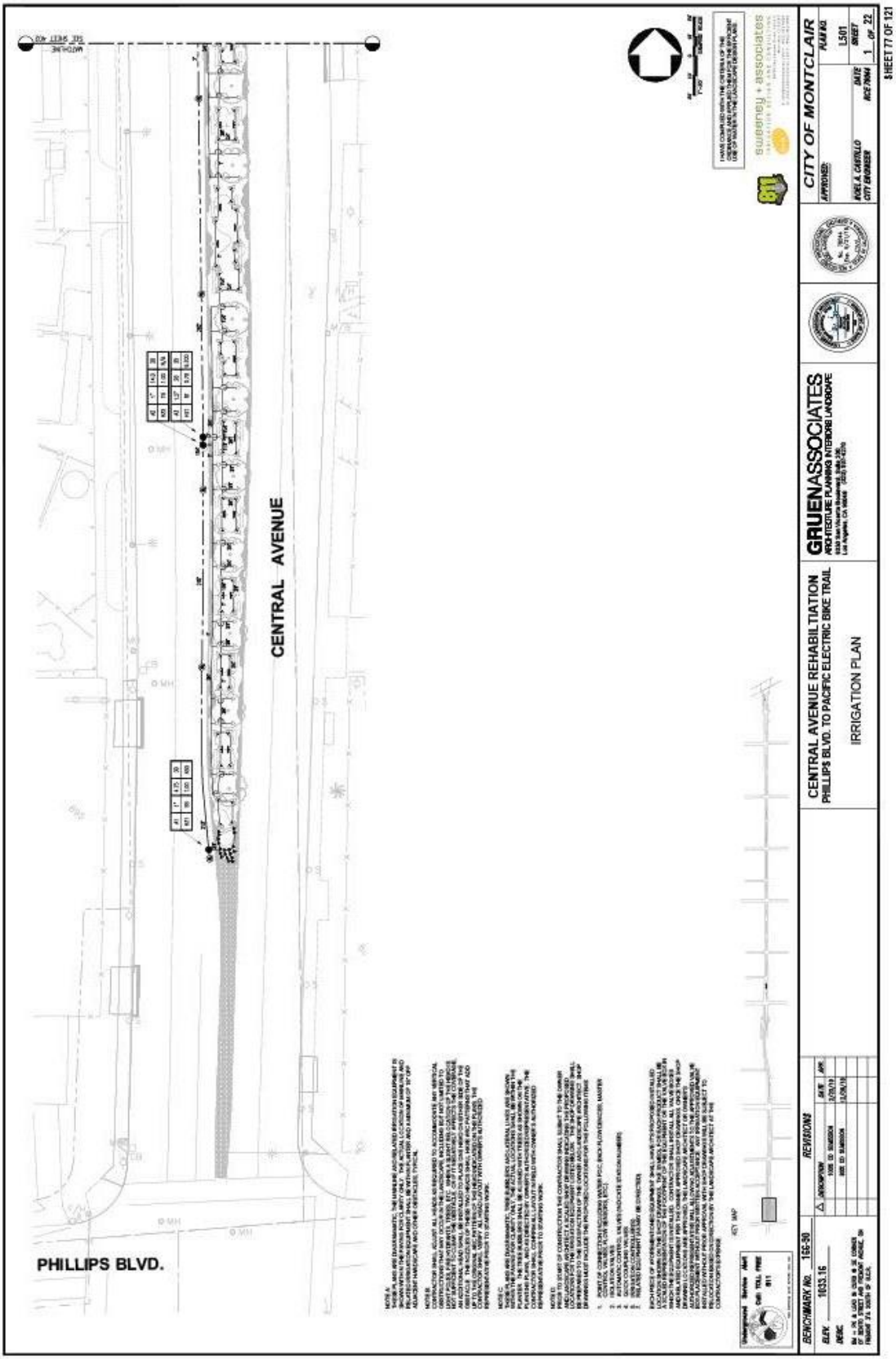
CONSTRUCT 8" RECYCLED WATER MAIN
MORENO ST.
MONTCLAIR PLACE
CENTRAL AVENUE
MATCHLINE STA. 90+00 N
SEE SHEET 11
CENTRAL AVE RECYCLED WATER PIPELINE PROJECT
PLAN/PROFILE SHEET
STA. 90 00 N TO STA. 94 00 N
12

Appendix B

Central Avenue Rehabilitation Irrigation Plans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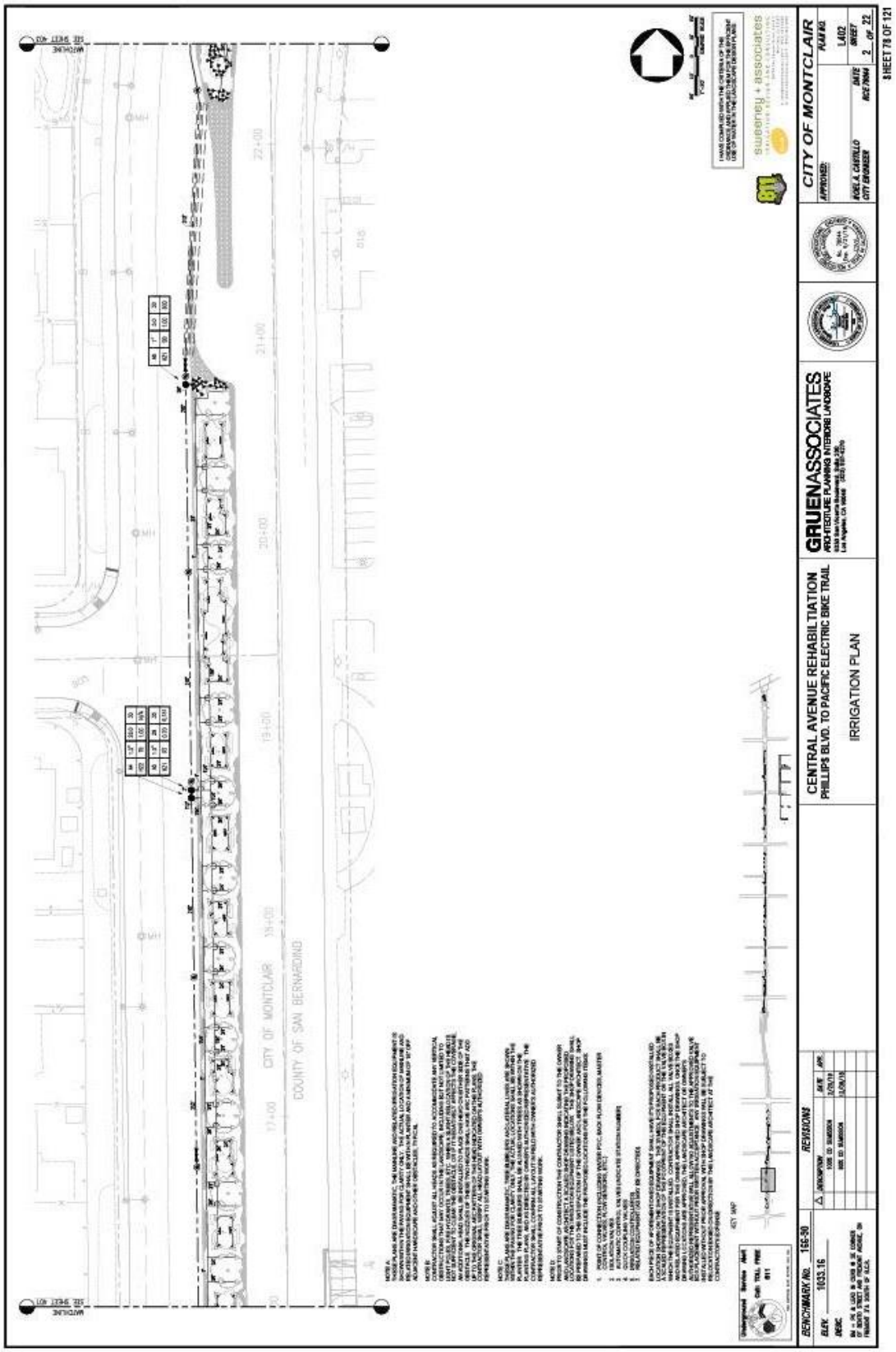
CENTRAL AVENUE
CENTRAL AVENUE REHABILITATION
PHILLIPS BLVD. TO PACIFIC ELECTRIC BIKE TRAIL
IRRIGATION PLAN
GRUENASSOCIATES
CITY OF MONTCLAIR
REVISIONS
BENCHMARK NO. 166-90
ELEV. 1633.16
DESC.
SHEET 77 OF 121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COUNTY OF SAN BERNARDINO
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PHILLIPS BLVD. TO PACIFIC ELECTRIC BIKE TRAIL
IRRIGATION PLAN
GRUENASSOCIATES
ARCHITECTURE PLANNING INTERIORS LANDSCAPE
sweeney + associates
CITY OF MONTCLAIR
APPROVED:
PLAN NO.
L402
SHEET
2 OF 22
DATE
REV. 7/08/04
ROSE A. CASTILLO
CITY ENGINEER
BENCHMARK NO. 162-30
ELEV. 1033.16
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REVISIONS
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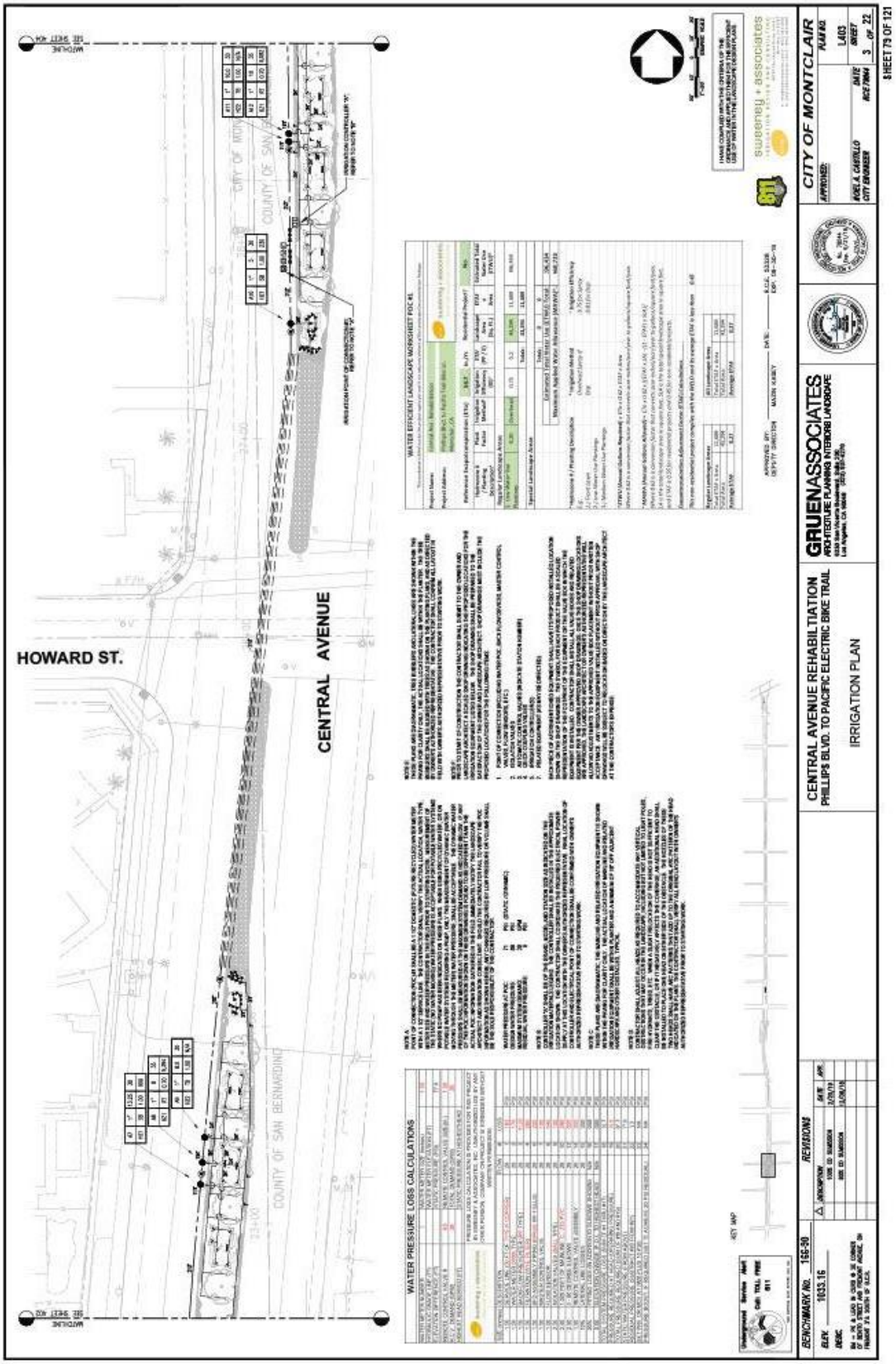
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CITY OF MONTCLAIR
WATER PRESSURE LOSS CALCULATIONS
WATER EFFICIENT LANDSCAPE WORKSHEET POC #1
GRUENASSOCIATES
CENTRAL AVENUE REHABILITIATION
PHILLIPS BLVD. TO PACIFIC ELECTRIC BIKE TRAIL
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CITY OF MONTCLAIR
L-03
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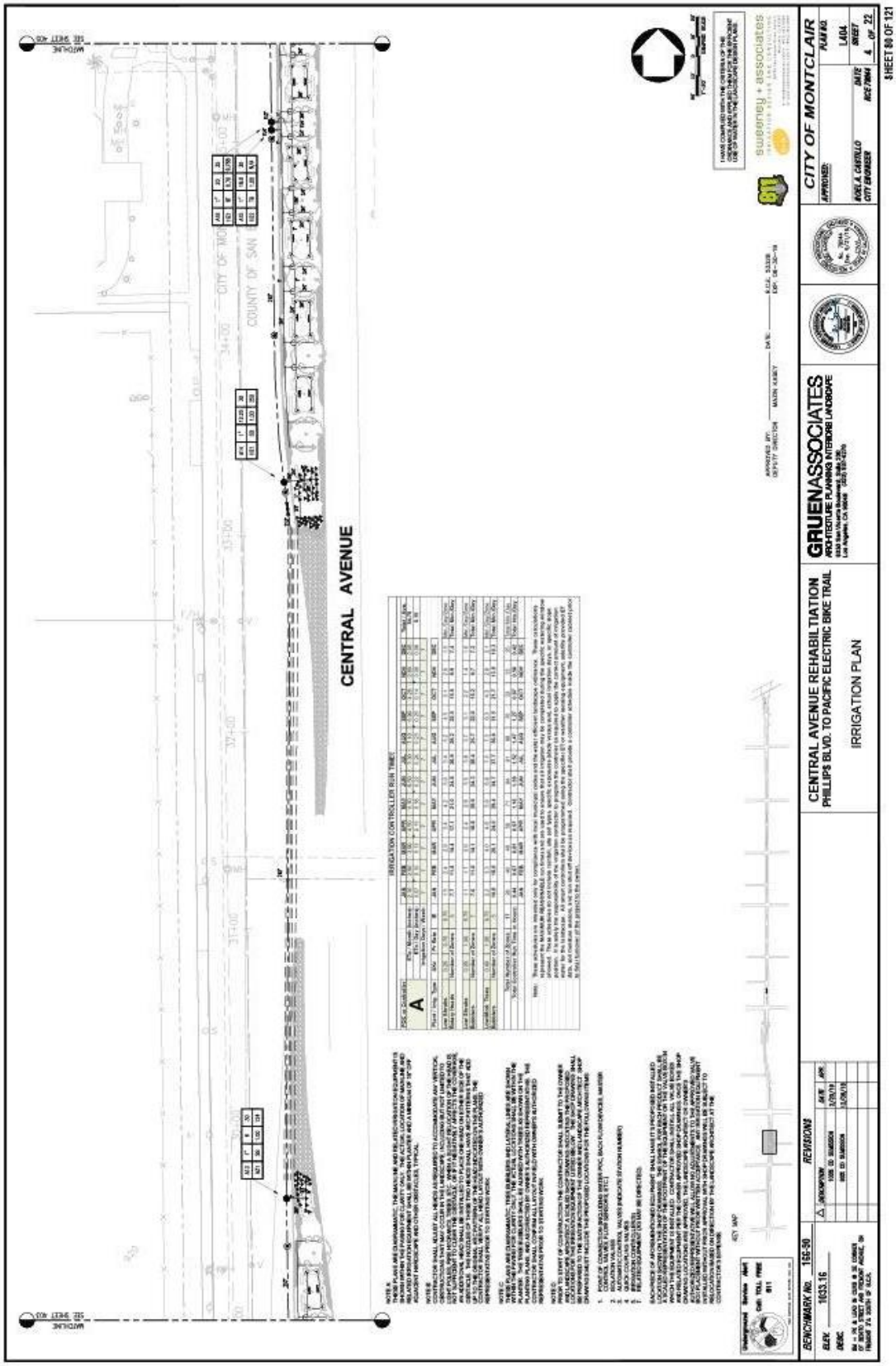
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CITY OF MONTCLAIR
GRUENASSOCIATES
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IRRIGATION PLAN
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BENCHMARK No. 156-30
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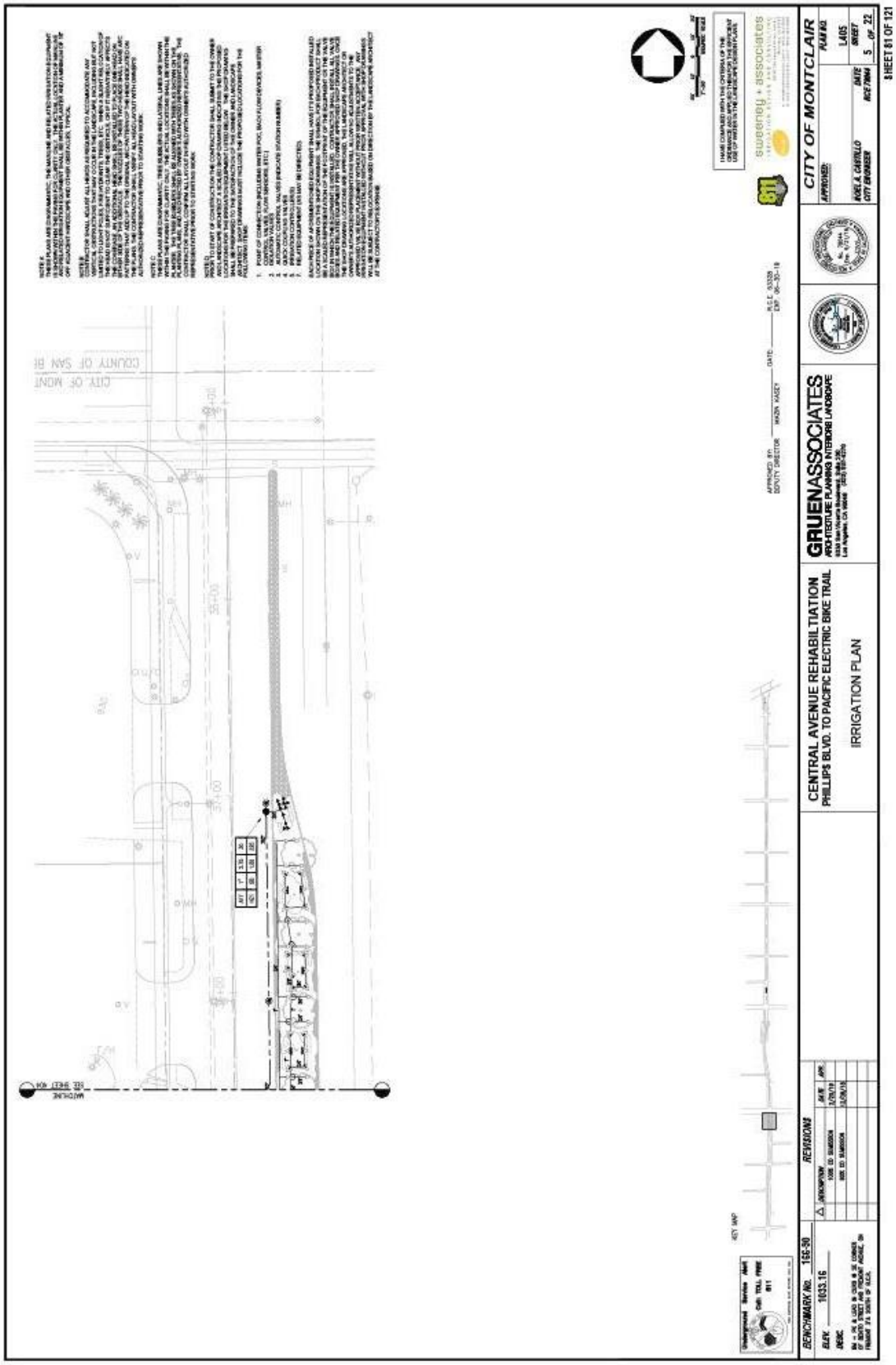
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IRRIGATION PLAN
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REVISIONS
BENCHMARK NO. 156-30
ELEV. 1033.16
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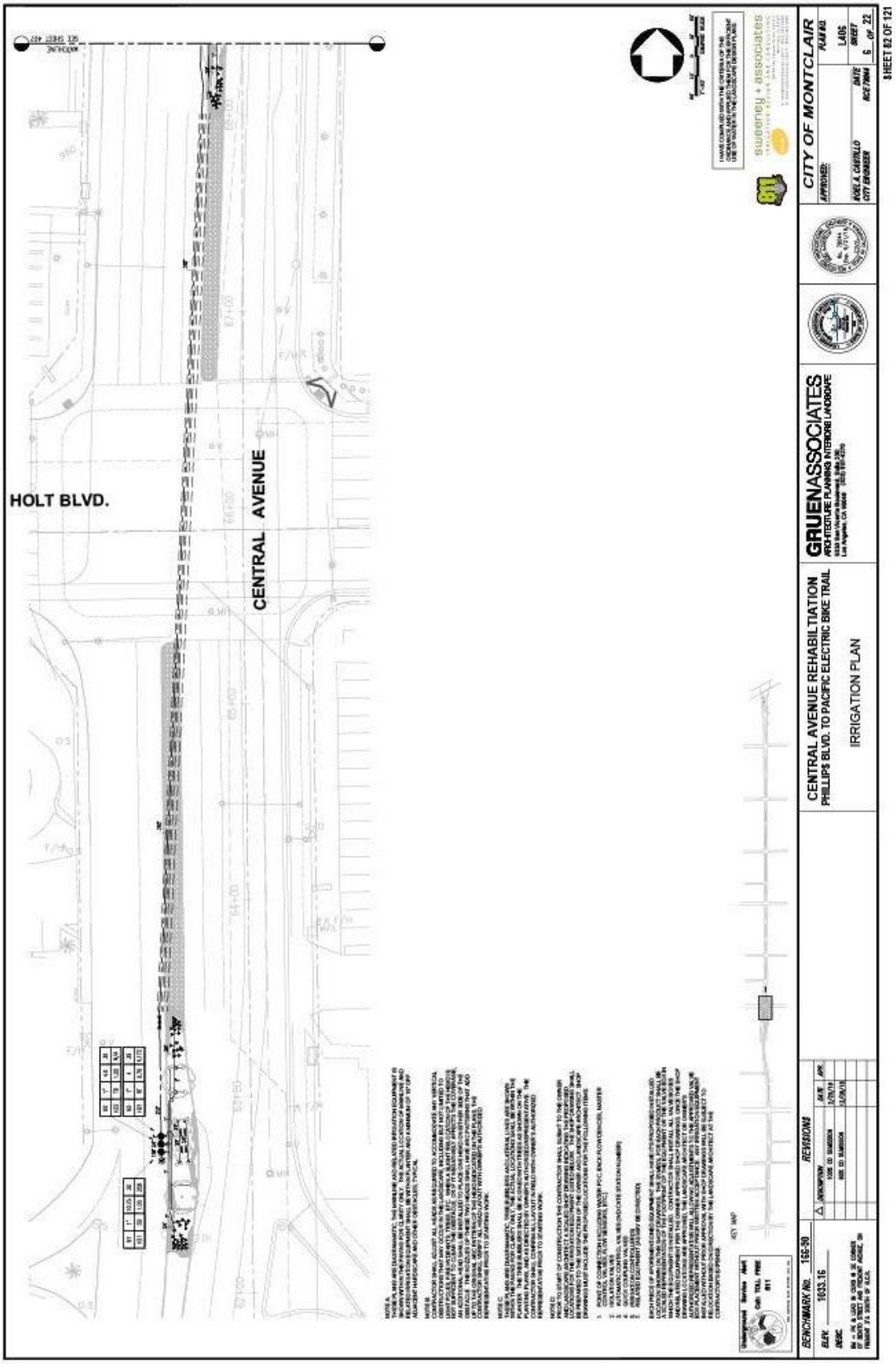
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GRUENASSOCIATES
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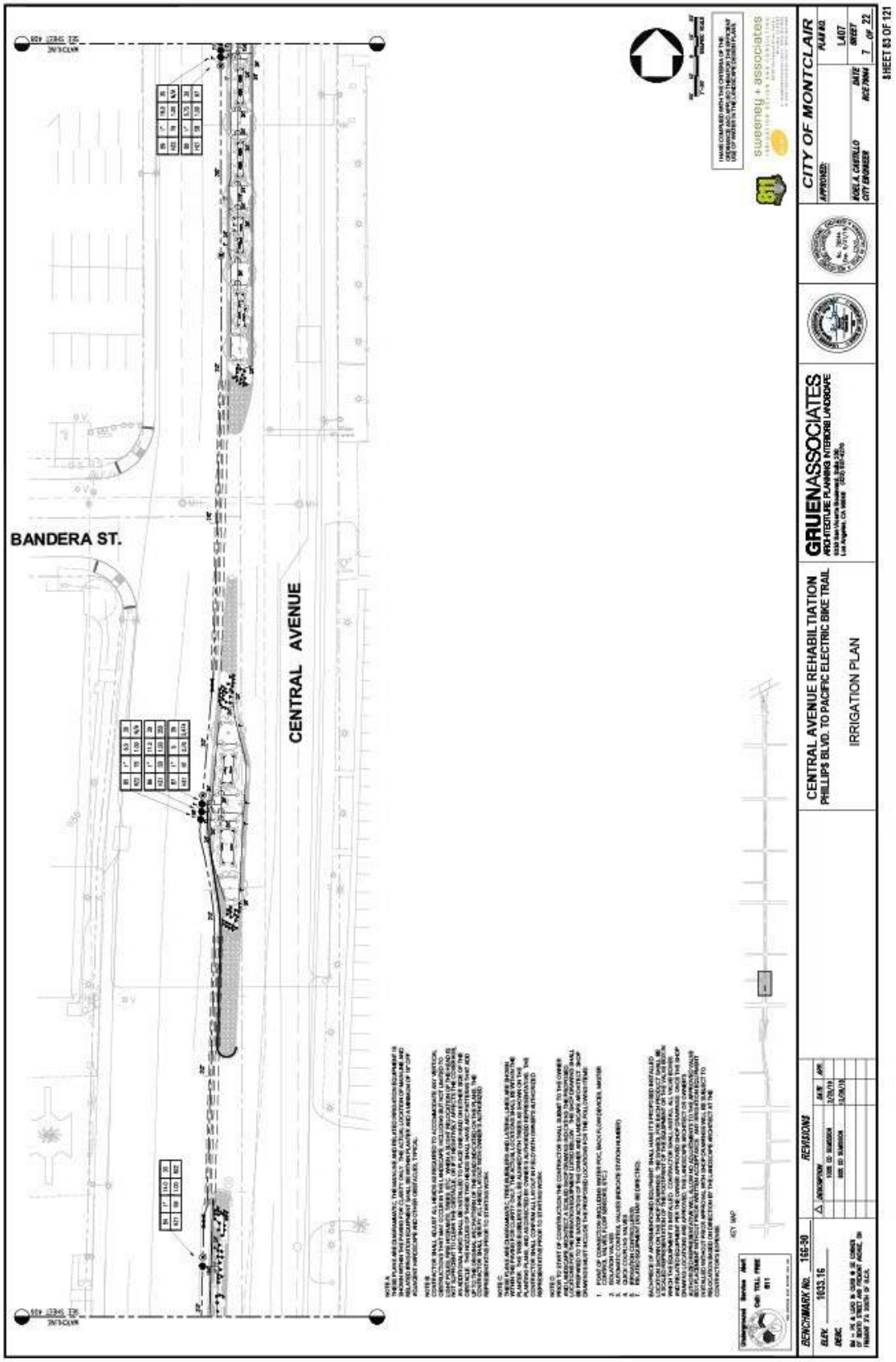
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GRUENASSOCIATES
ARCHITECTURE PLANNING INTERIORS LANDSCAPE
CITY OF MONTCLAIR
PLAN NO.
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REVISIONS
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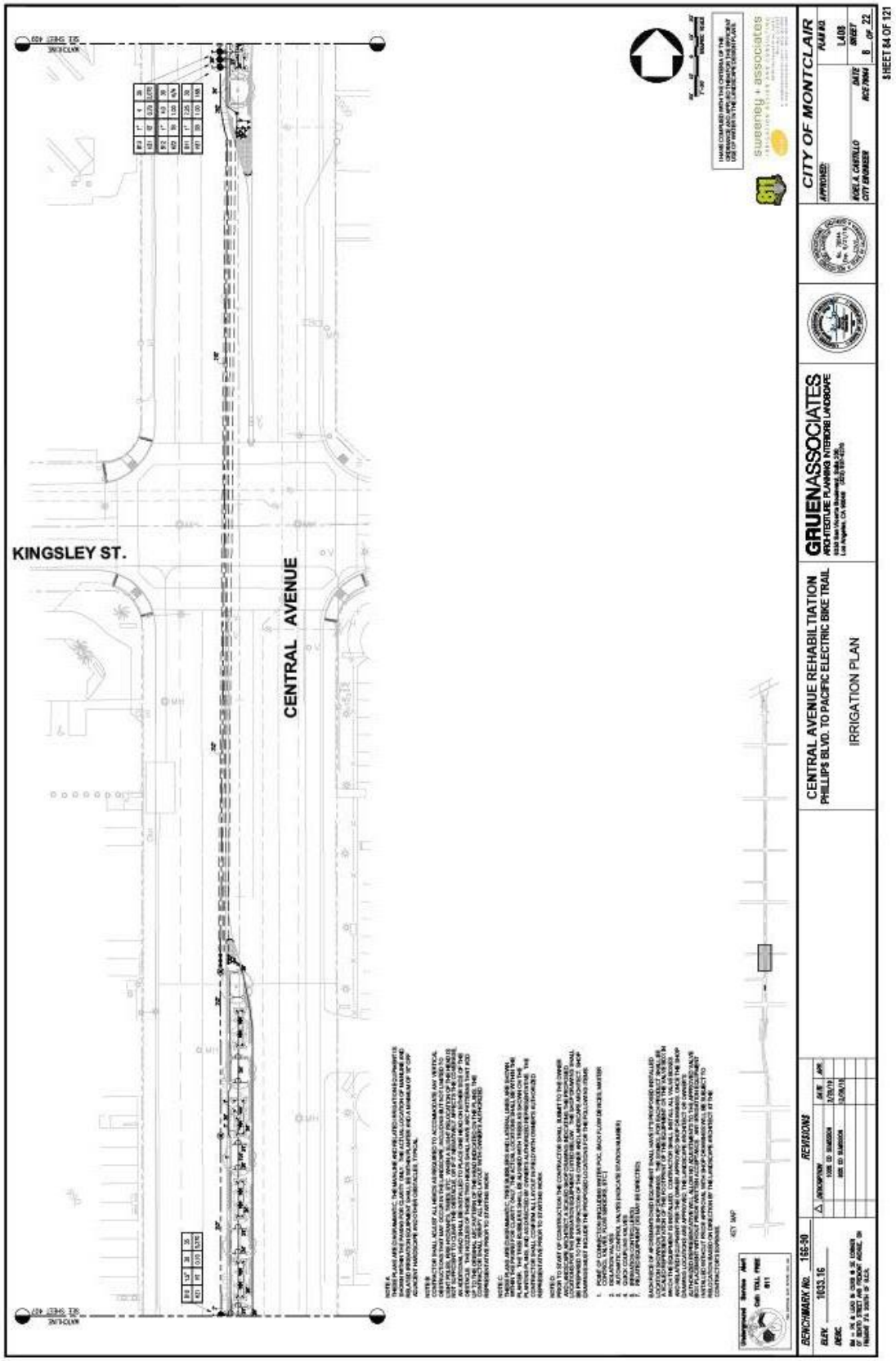
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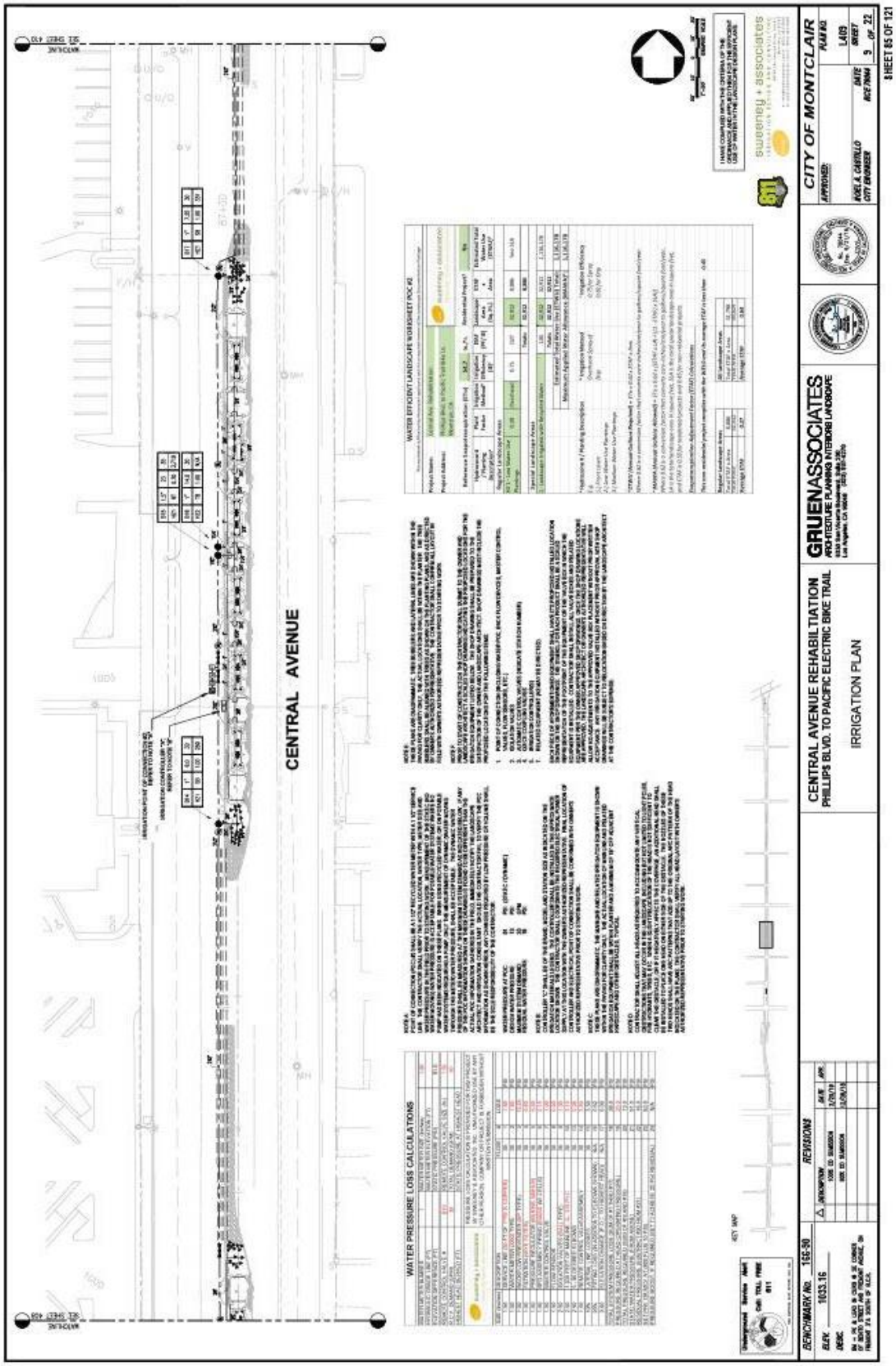
IRRIGATION PLAN
GRUENASSOCIATES
ARCHITECTURE PLANNING INTERIORS LANDSCAPE
sweeney + associates
CITY OF MONTCLAIR
APPROVED:
RUDY A. CARRILLO
CITY ENGINEER
L408
SHEET
8 OF 22
SHEET 84 OF 121
REVISIONS
BENCHMARK NO. 166-30
1033.16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GRUENASSOCIATES
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PHILLIPS BLVD. TO PACIFIC ELECTRIC BIKE TRAIL
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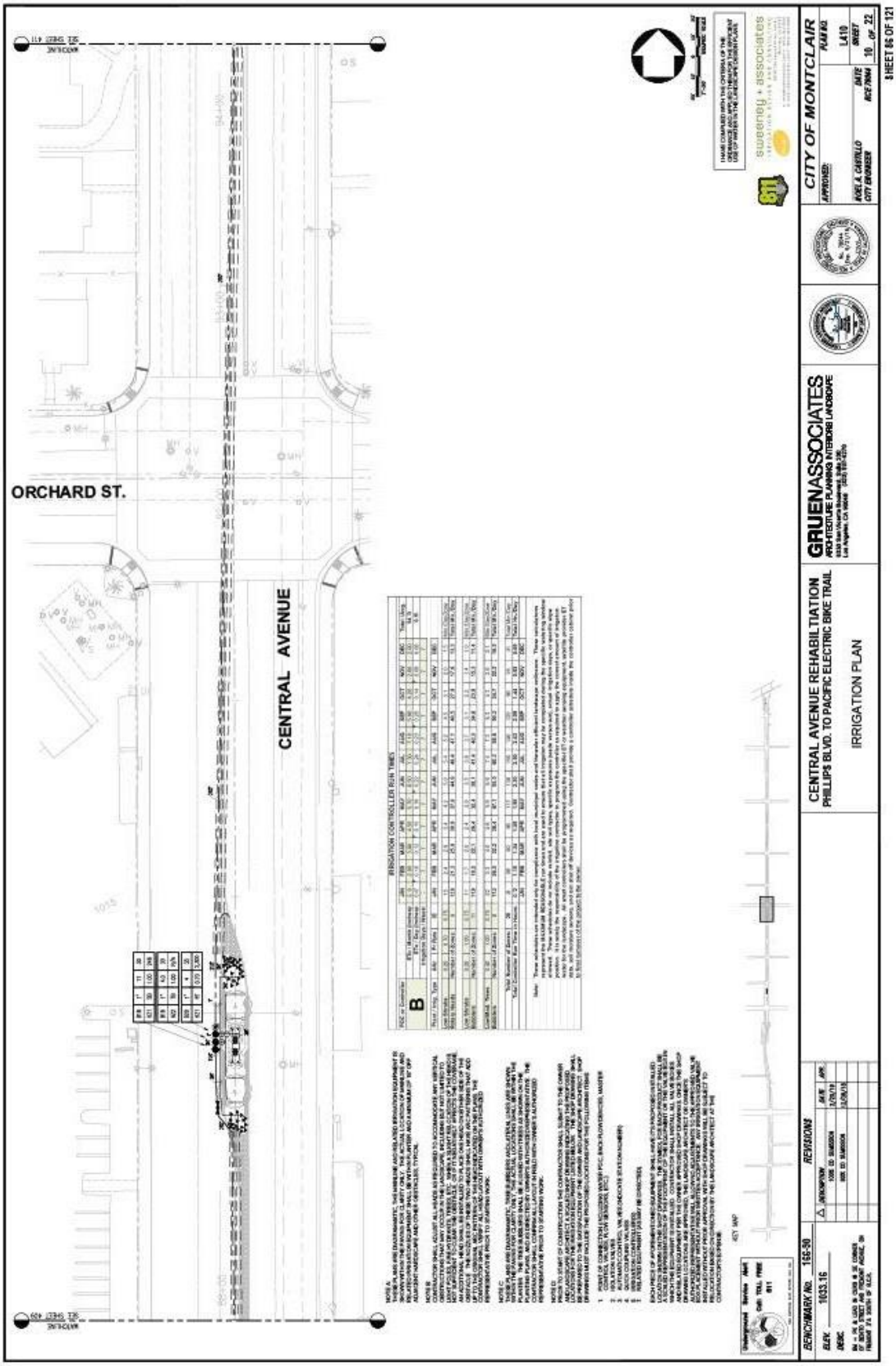
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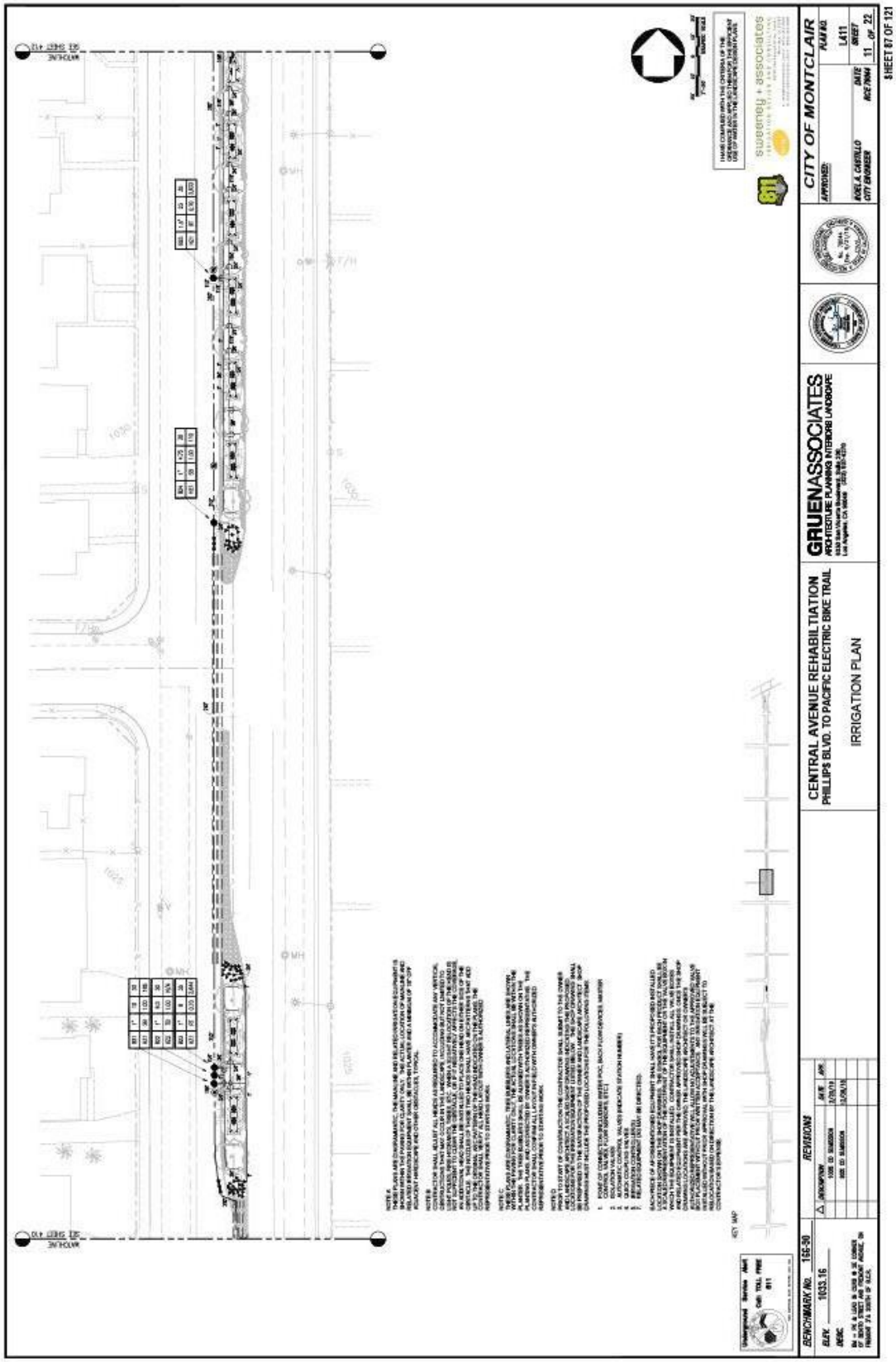
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IRRIGATION PLAN
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ARCHITECTURE PLANNING INTERIORS LANDSCAPE
CITY OF MONTCLAIR
PLAN NO.
L411
SHEET
11 OF 22
DATE
AUG 2004
APPROVED:
ROEL A. CASTILLO
CITY ENGINEER
REVISIONS
BENCHMARK NO. 166-30
ELEV. 1033.16
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KEY MAP
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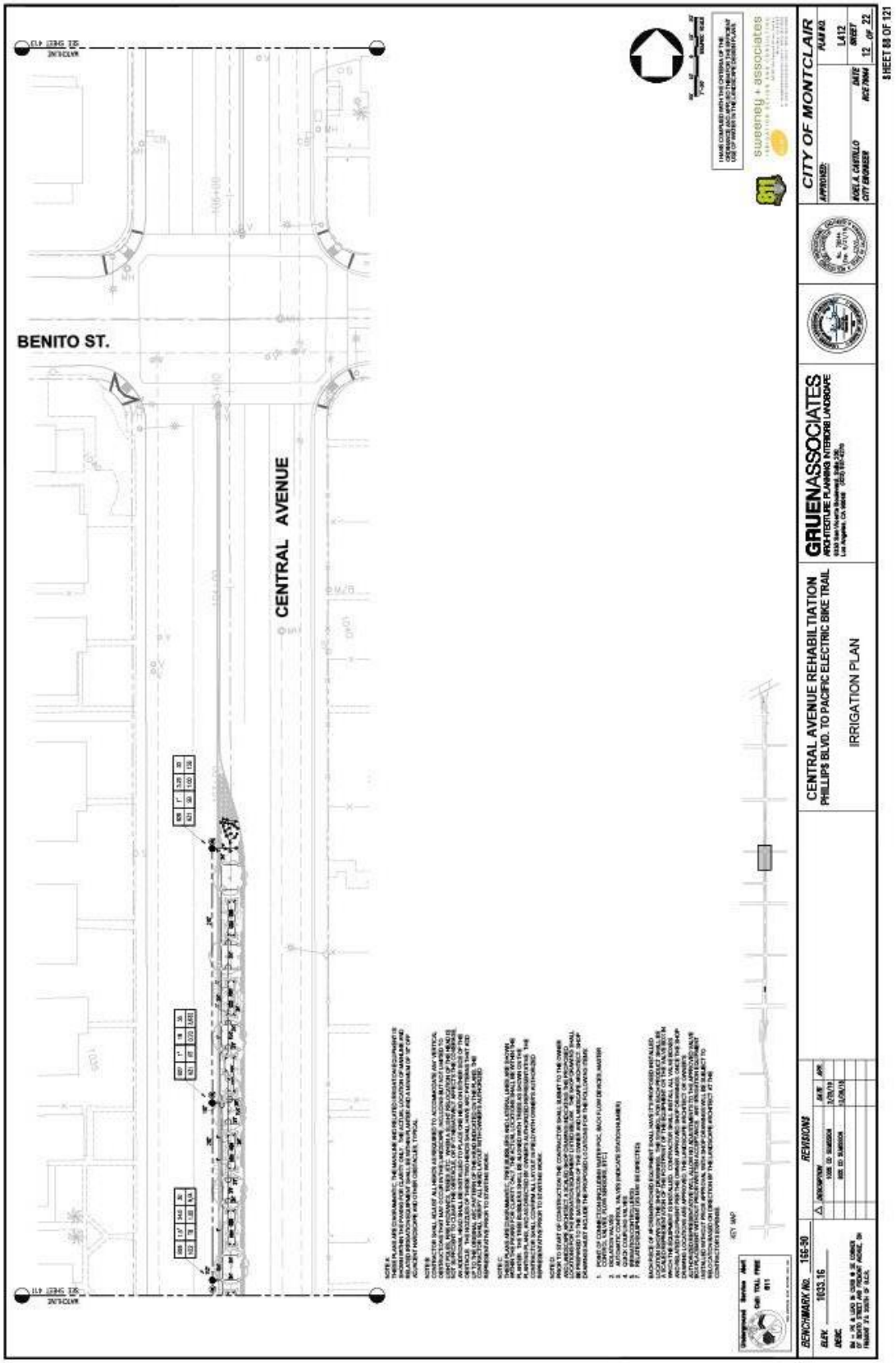
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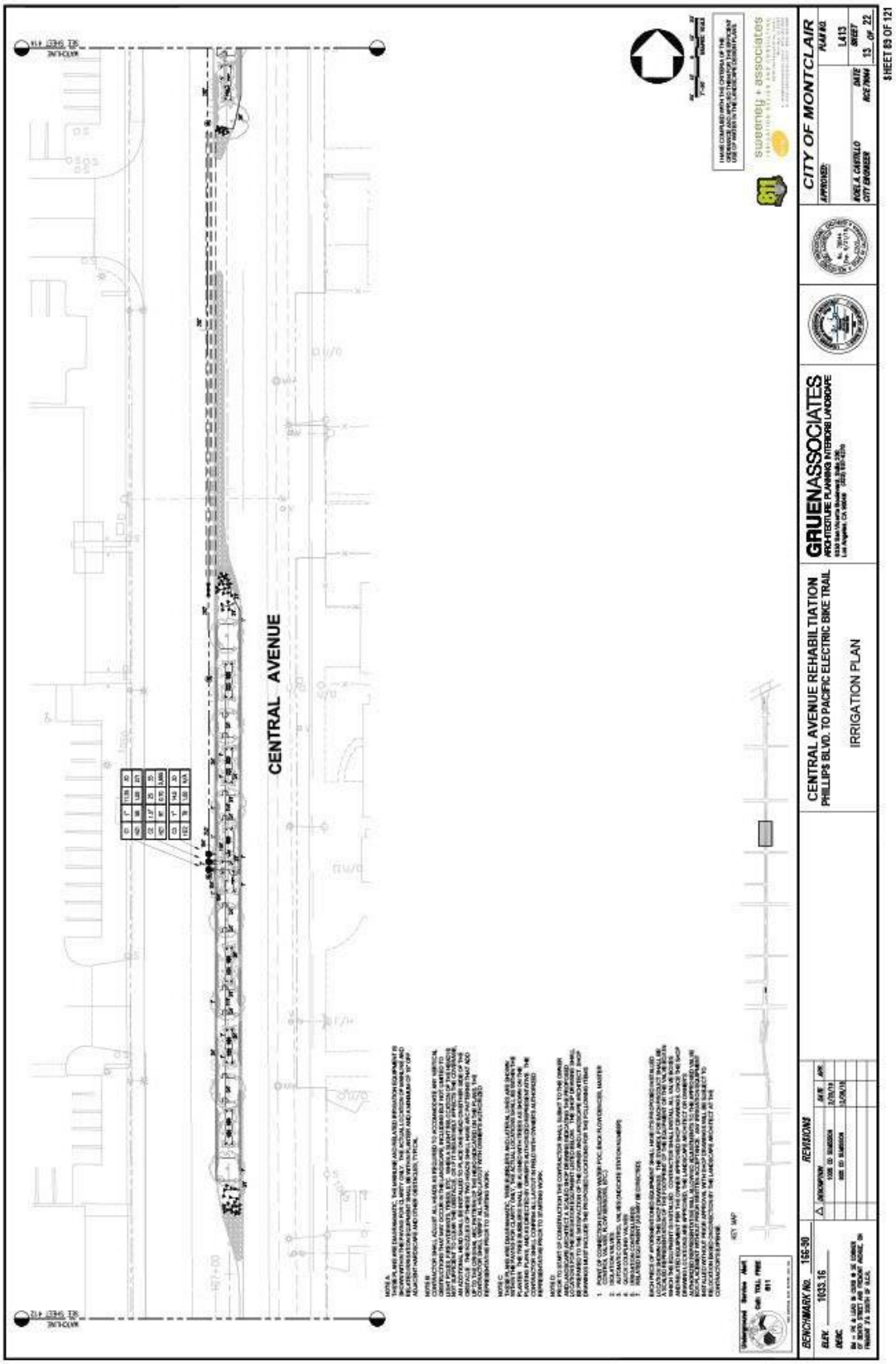
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PHILLIPS BLVD. TO PACIFIC ELECTRIC BIKE TRAIL
IRRIGATION PLAN
GRUENASSOCIATES
ARCHITECTURE PLANNING INTERIORS LANDSCAPE
CITY OF MONTCLAIR
APPROVED:
ANGEL A. CASTILLO
CITY ENGINEER
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BENCHMARK No. 156-30
REVISIONS
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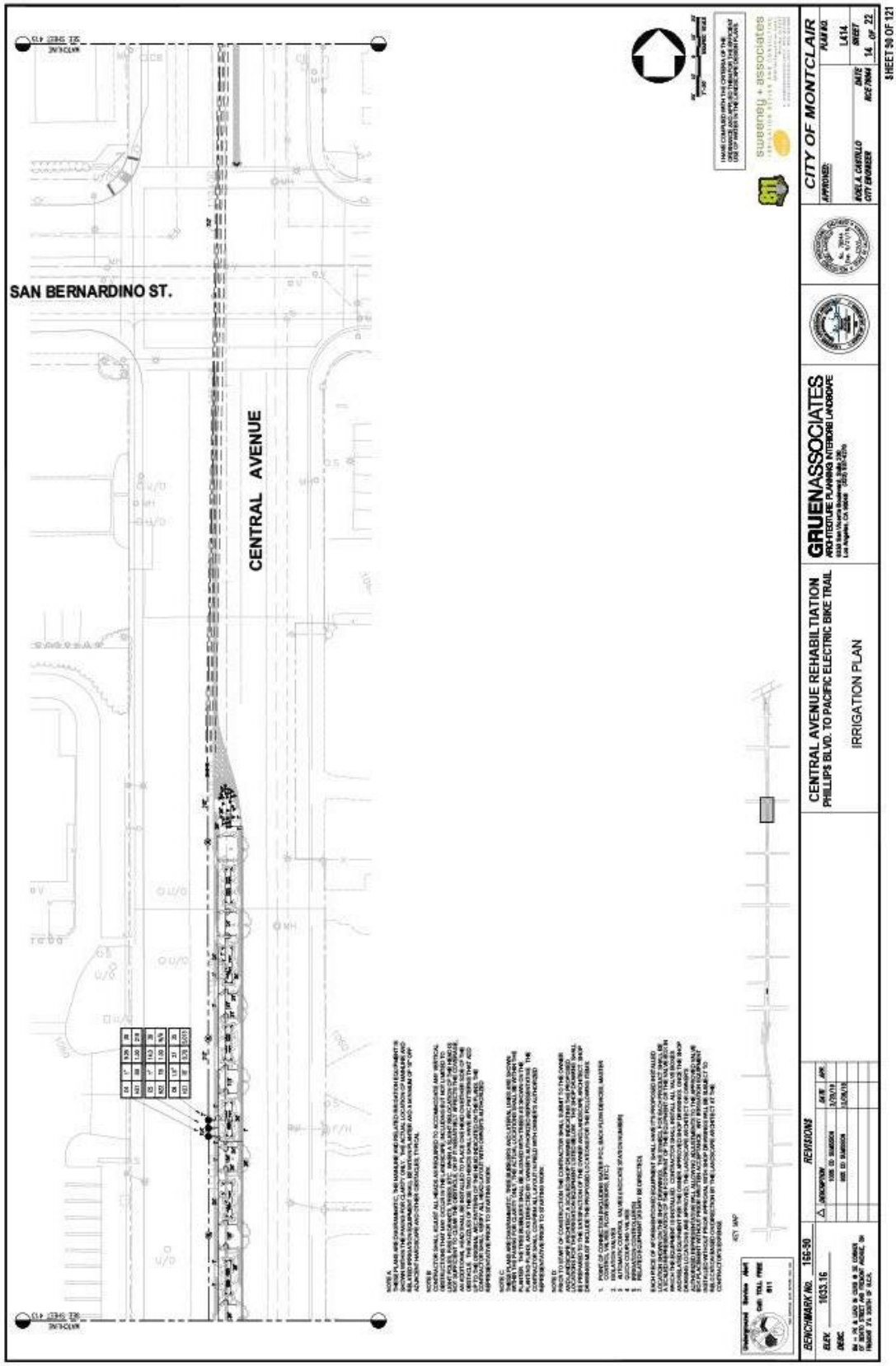
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IRRIGATION PLAN
GRUENASSOCIATES
ARCHITECTURE PLANNING INTERIORS LANDSCAPE
CITY OF MONTCLAIR
APPROVED:
ROEL A. CARTILLO
CITY ENGINEER
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BENCHMARK NO. 15E-30
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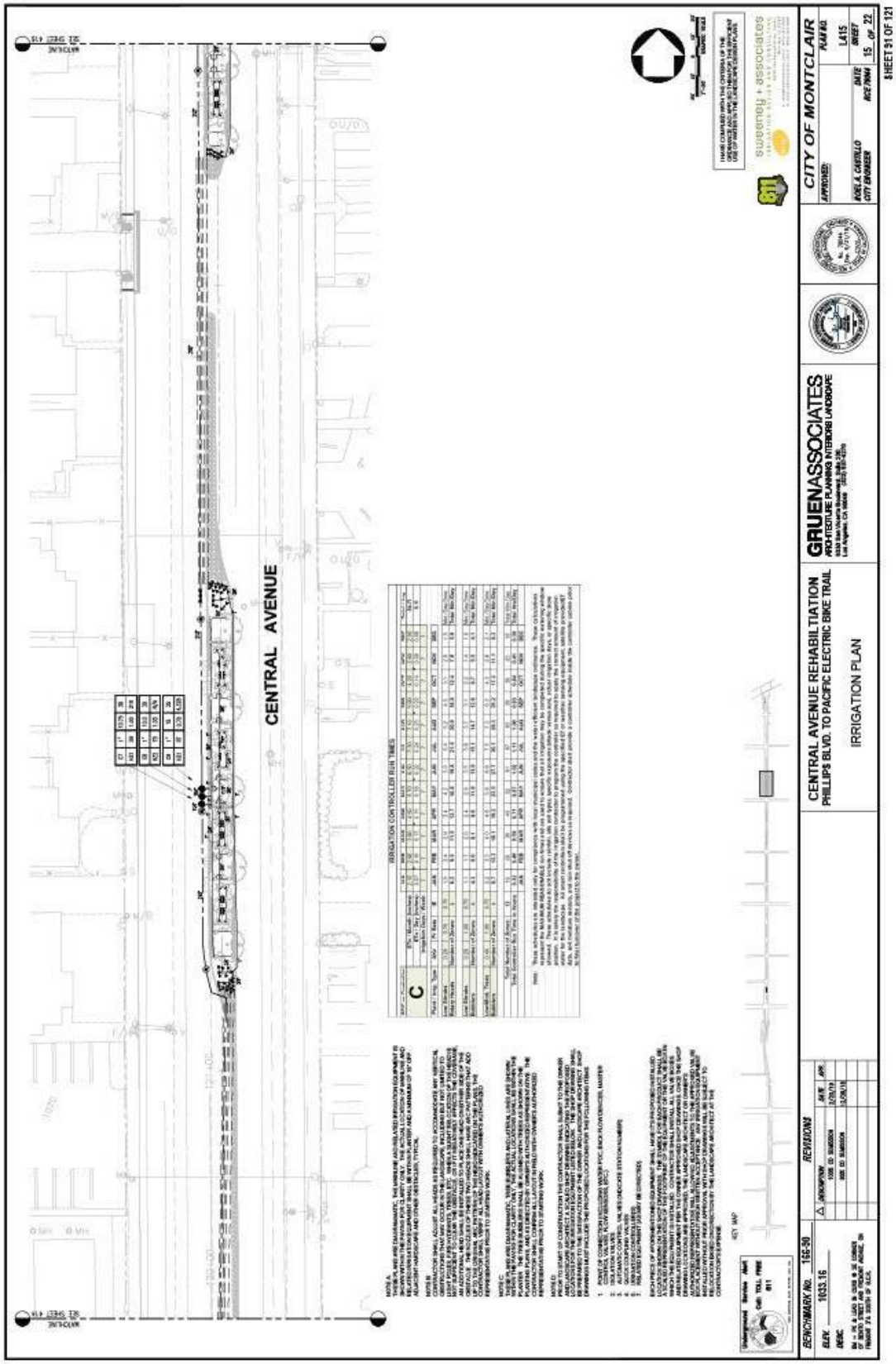
DESC.
sweeney + associates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PHILLIPS BLVD. TO PACIFIC ELECTRIC BIKE TRAIL
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CITY OF MONTCLAIR
L415
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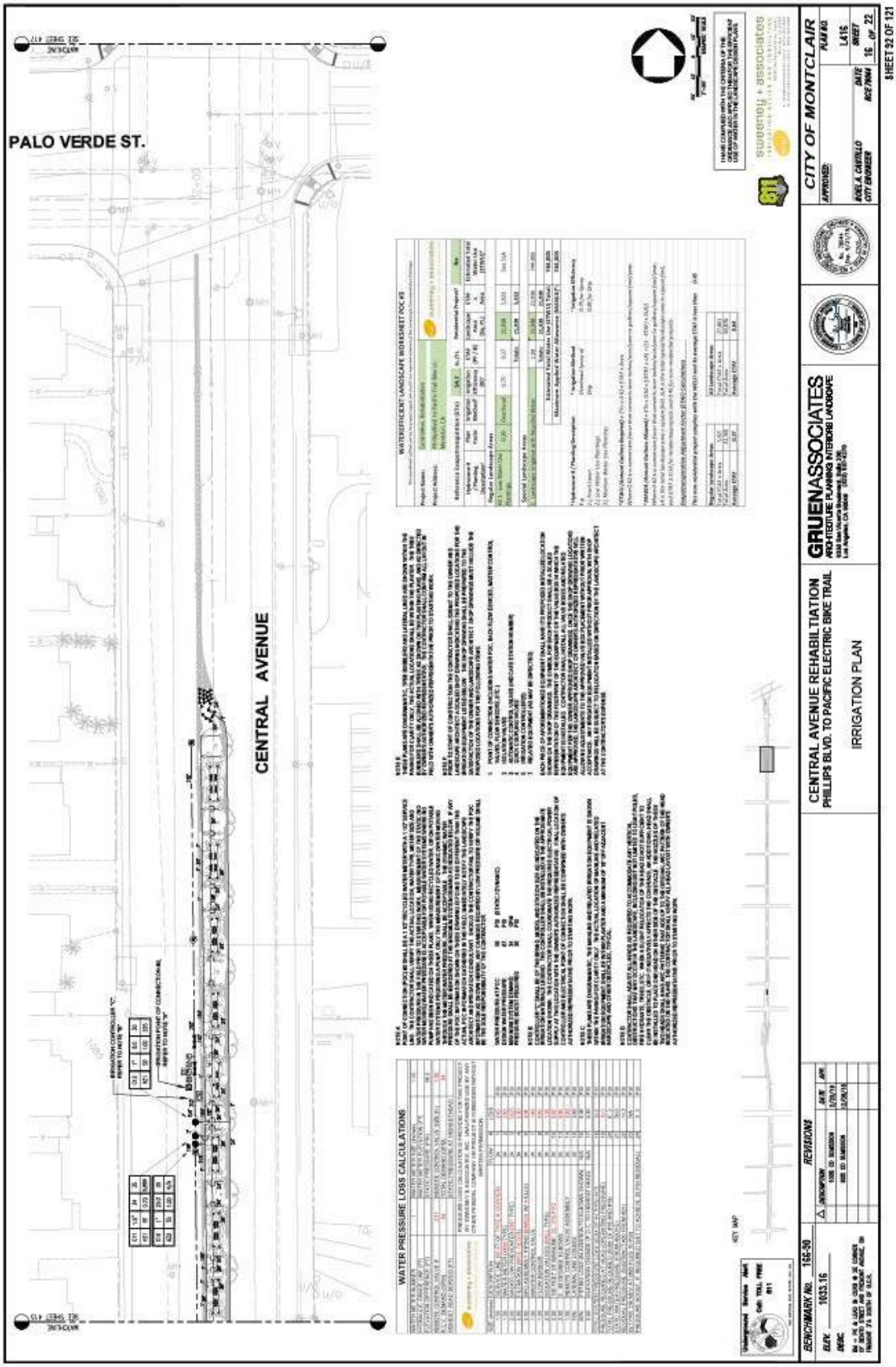
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GRUENASSOCIATES
ARCHITECTURE PLANNING INTERIORS LANDSCAPE
CENTRAL AVENUE REHABILITATION
PHILLIPS BLVD. TO PACIFIC ELECTRIC BIKE TRAIL
IRRIGATION PLAN
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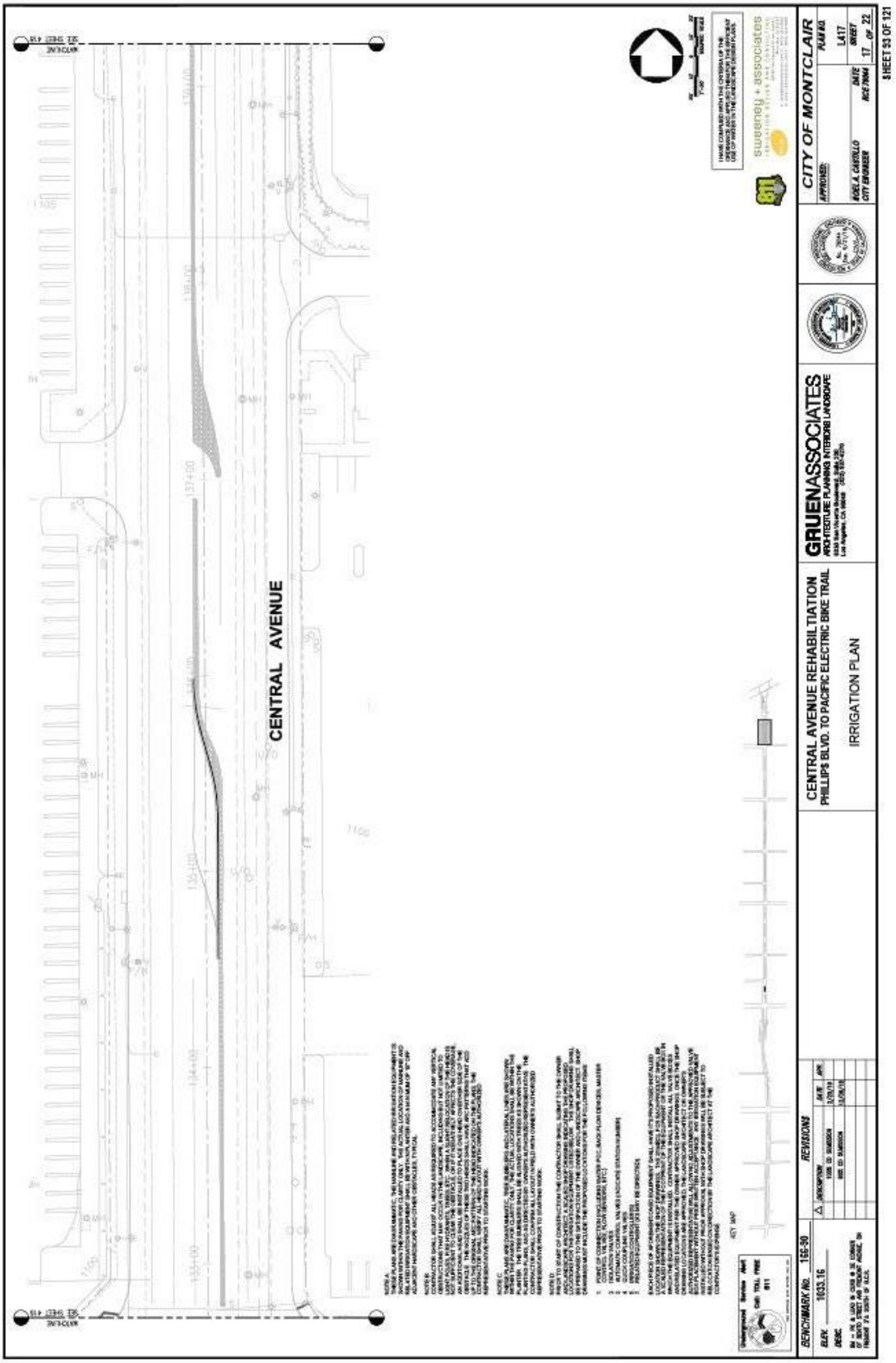
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PHILLIPS BLVD. TO PACIFIC ELECTRIC BIKE TRAIL
IRRIGATION PLAN
GRUEN ASSOCIATES
ARCHITECTURE PLANNING INTERIORS LANDSCAPE
sweeney + associates
CITY OF MONTCLAIR
APPROVED:
ROEL A. CARRILLO
CITY ENGINEER
DATE
NOV 7 2004
PLAN NO.
L417
SHEET
17 OF 22
SHEET 93 OF 121
REVISIONS
BENCHMARK No. 152-30
ELEV. 1033.16
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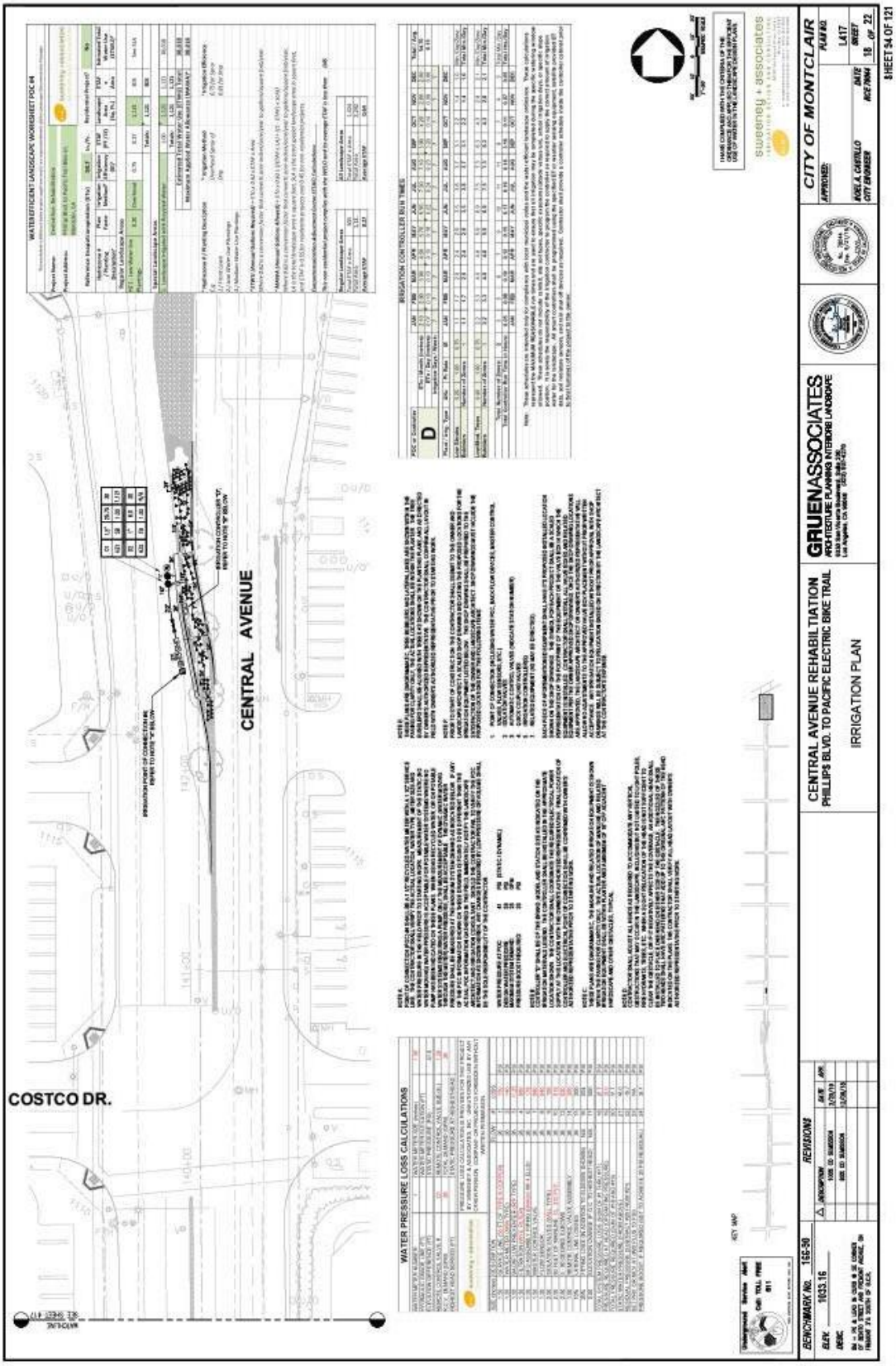
KEY MAP
Call TOLL FREE
811


COSTCO DR.
CENTRAL AVENUE
WATER EFFICIENT LANDSCAPE WORKSHEET PDC #4
IRRIGATION CONTROLLER RUN TIMES
WATER PRESSURE LOSS CALCULATIONS
CENTRAL AVENUE REHABILITATION
PHILLIPS BLVD. TO PACIFIC ELECTRIC BIKE TRAIL
IRRIGATION PLAN
GRUENASSOCIATES
CITY OF MONTCLAIR
REVISIONS
BENCHMARK NO. 166-90
SHEET 54 OF 121

WATER AUDIT AND MAINTENANCE SCHEDULE

THE CONTRACTOR WILL CONDUCT AN IRRIGATION AUDIT USING A CERTIFIED IRRIGATION AUDITOR, AFTER THE FINAL FIELD OBSERVATION HAS BEEN COMPLETED AND ALL IRRIGATION COMPONENTS AND INSTALLED IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS AND THE IRRIGATION SYSTEM IS ACCEPTED BY THE PROJECT ARCHITECT FOR MAINTENANCE.

THE IRRIGATION AUDIT WILL BE CONDUCTED IN ACCORDANCE WITH THE FOLLOWING SCHEDULE:

1. PLACE FLAGS AT EACH HEAD IN THE ZONE
2. MEASURE SPACING AND MARK ADJ POINTS BETWEEN HEADS.
3. PLACE WATER MAX CATCH RECEPTACLES.
4. TAKE READINGS OF WATER LEVEL IN RECEPTACLES AND RECORD RESULTS.
5. MEASURE HEAD PRESSURE IN EACH ZONE AND RECORD RESULTS.
6. AFTER COMPLETING ZONE ADVANCE TO NEXT ZONE AND REPEAT PROCEDURE.
7. SUBMIT THE RESULTS OF THE AUDIT TO THE PROJECT ARCHITECT.

THE IRRIGATION MAINTENANCE SCHEDULE THEN LISTED BELOW ARE INTENDED AS MINIMUM STANDARDS AND MORE FREQUENT ATTENTION MAY BE REQUIRED DEPENDING ON THE PARTICULAR SITE CONDITIONS.

MAINTENANCE TASK

1. CONTROLLER CABINET - OPEN CABINET AND CLEAN OUT DEBRIS AND REPLACE BATTERY AS NECESSARY. CHECK WIRING AND REPAIR AS NEEDED AND CHECK CLOCK AND RESET IF NECESSARY.
FREQUENCY: QUARTERLY

2. IRRIGATION SCHEDULE - ADJUST SCHEDULE FOR SEASONAL WEATHER CONDITIONS AND OTHER CONDITIONS WHICH MAY AFFECT THE AMOUNT OF WATER NEEDED TO MAINTAIN PLANT HEALTH. ADJUST AS NECESSARY.
FREQUENCY: MONTHLY

3. POC - VISUALLY INSPECT COMPONENTS FOR LEAKS, PRESSURE SETTINGS, SETTLEMENT OR OTHER DAMAGE. IMPACTING THE OPERATION OF A COMPONENT. REPAIR AS NEEDED.
FREQUENCY: QUARTERLY

4. REMOTE CONTROL VALVES, ISOLATION VALVES AND QUICK COUPLER VALVES - VISUALLY INSPECT FOR LEAKS, SETTLEMENT, WIRE CONNECTIONS AND PRESSURE SETTINGS. REPAIR OR ADJUST AS NEEDED.
FREQUENCY: QUARTERLY

5. MAINLINE & LATERALS - VISUALLY INSPECT FOR LEAKS OR SETTLEMENT OF TRENCH.
FREQUENCY: QUARTERLY

6. SPRINKLERS - VISUALLY CHECK FOR ANY BROKEN OR CLOGGED HEADS. HEADS WITH INCORRECT ARC, INADEQUATE COVERAGE OR OVERSPRAY AND LOW HEAD DRAINAGE. REPAIR AS NEEDED.
FREQUENCY: WEEKLY

7. FILTERS AND STRAINERS - VISUALLY CHECK FOR LEAKS, BROKEN FITTING, CLEAN AND FLUSH SCREENS.

AUDIT SHALL BE IN ACCORDANCE WITH THE LATEST STATE OF CALIFORNIA LANDSCAPE WATER MANAGEMENT PROGRAM AS DESCRIBED IN THE LATEST LANDSCAPE IRRIGATION AUDITOR HANDBOOK. THE LANDSCAPE IRRIGATION AUDITS TO BE CONDUCTED BY A CERTIFIED INDIVIDUAL AND THE AUDIT SCHEDULE SHALL BE CONDUCTED AT LEAST ONCE EVERY FIVE YEARS IN ACCORDANCE WITH THE REQUIREMENTS OF TITLE 20, DIVISION 1 OF THE LOS ANGELES COUNTY CODE.

MAINTENANCE SCHEDULES:

MAINTENANCE SCHEDULES: A RESULTANT MAINTENANCE SCHEDULE DEPENDING THE FOLLOWING CONDITIONS SHALL BE SUBMITTED AS PART OF THE LANDSCAPE DOCUMENTATION PACKAGE.

LANDSCAPE SHALL BE MAINTAINED TO REGAIN WATER EFFICIENCY. A REGULAR MAINTENANCE SCHEDULE SHALL INCLUDE, BUT NOT BE LIMITED TO, CHECKING, ADJUSTING, AND REPAIRING IRRIGATION EQUIPMENT, TESTING THE AUTOMATIC CONTROLLER, AERATING AND DETHATCHING TURF AREAS, REPLENISHING MULCH, FERTILIZING, PRUNING, AND WEEDING IN ALL LANDSCAPE AREAS.

WHENEVER POSSIBLE, REPAIR OF IRRIGATION EQUIPMENT SHALL BE DONE WITH THE ORIGINALLY SPECIFIED MATERIALS OR THEIR EQUIVALENTS.

A LANDSCAPE IRRIGATION AUDIT SCHEDULE AS REQUIRED IN CHAPTER 10.09 OF TITLE 20 MAY BE RECOMMENDED. THE MAXIMUM PERIOD BETWEEN AUDITS SHALL BE FIVE YEARS.

IRRIGATION AUDIT SCHEDULES:

LANDSCAPE IRRIGATION AUDIT SCHEDULES: A SCHEDULE OF LANDSCAPE IRRIGATION AUDITS OF AT LEAST EVERY FIVE YEARS MUST BE ESTABLISHED. FOR ALL NOT SINGLE-FAMILY RESIDENCE, AND OTHER PROJECTS WITH LANDSCAPE AREA LESS THAN 1 ACRE (0.405 HA), AS REQUIRED IN CHAPTER 20.09 OF TITLE 20 (UTILITY CODE), AN AUDIT ENTERING THE FOLLOWING CONDITIONS SHALL BE SUBMITTED TO THE COUNTY AS PART OF THE LANDSCAPE DOCUMENTATION PACKAGE.

AT A MINIMUM, AUDITS SHALL BE IN ACCORDANCE WITH THE LATEST STATE OF CALIFORNIA LANDSCAPE WATER MANAGEMENT PROGRAM AS DESCRIBED IN THE LANDSCAPE IRRIGATION AUDITOR HANDBOOK, PREPARED FOR THE CALIFORNIA DEPARTMENT OF WATER RESOURCES, WATER CONSERVATION OFFICE. THE ENTIRE DOCUMENT, WHICH IS HEREBY INCORPORATED BY REFERENCE.

THIS SCHEDULE SHALL PROVIDE FOR LANDSCAPE IRRIGATION AUDITS TO BE CONDUCTED BY A QUALIFIED INDIVIDUAL AS DETERMINED BY THE DIRECTOR AT LEAST ONCE EVERY FIVE YEARS IN ACCORDANCE WITH THE REQUIREMENTS OF TITLE 20, DIVISION 1 OF THE LOS ANGELES COUNTY CODE.

IRRIGATION NOTES

1. ALL LOCAL, MUNICIPAL AND STATE LAWS, RULES AND REGULATIONS GOVERNING OR RELATING TO ANY PORTION OF THIS WORK ARE HEREBY INCORPORATED INTO AND MADE A PART OF THESE SPECIFICATIONS AND THEIR PROVISIONS SHALL BE CARRIED OUT BY THE CONTRACTOR.
2. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES, STRUCTURES AND SERVICES BEFORE COMMENCING WORK. THE LOCATIONS OF UTILITIES, STRUCTURES AND SERVICES SHOWN IN THESE PLANS ARE APPROXIMATE ONLY. ANY DISCREPANCIES BETWEEN THESE PLANS AND ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO THE OWNER'S REPRESENTATIVE.
3. THE CONTRACTOR SHALL OBTAIN THE PERTINENT ENGINEERING OR ARCHITECTURAL PLANS BEFORE BEGINNING WORK.
4. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS REQUIRED TO PERFORM THE WORK INDICATED HEREIN BEFORE BEGINNING WORK.
5. THIS DESIGN IS DIAGRAMMATIC. ALL EQUIPMENT SHOWN IN PAVED AREAS IS FOR DESIGN CLARITY ONLY AND IS TO BE INSTALLED WITHIN PLANTING AREAS.
6. THE CONTRACTOR SHALL NOT WILLFULLY INSTALL ANY EQUIPMENT AS SHOWN ON THE PLANS WHEN IT IS OBVIOUS IN THE FIELD THAT UNKNOWN CONDITIONS EXIST THAT WERE NOT EVIDENT AT THE TIME THESE PLANS WERE PREPARED. ANY SUCH CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE PRIOR TO ANY WORK. OF THE IRRIGATION CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY FOR ANY FIELD CHANGES DEEMED NECESSARY BY THE OWNER.
7. INSTALL ALL EQUIPMENT AS SHOWN IN THE DETAILS AND SPECIFICATIONS. CONTRACTOR SHALL BE RESPONSIBLE TO COMPLY WITH LOCAL CITY, COUNTY AND STATE REQUIREMENTS FOR BOTH EQUIPMENT AND INSTALLATION.
8. ACTUAL LOCATION FOR THE INSTALLATION OF THE GROUND PROVIDER AND THE AUTOMATIC CONTROLLER IS TO BE DETERMINED IN THE FIELD BY THE OWNER'S AUTHORIZED REPRESENTATIVE.
9. CONTRACTOR IS TO PROVIDE AN ADDITIONAL PILOT WIRE FROM CONTROLLER ALONG THE ENTIRETY OF MAINLINE TO THE LAST TRCV ON EACH AND EVERY LEG OF MAIN LINE. LABEL SPARE WIRES AT BOTH ENDS.
10. ALL PIPE UNDER PAVED AREAS TO BE INSTALLED IN SLEEVING TWICE THE DIAMETER OF THE PIPE CARRIED. USE LISCO FOR TYPE. ALL WIRE UNDER PAVED AREAS TO BE INSTALLED IN A SCH. 40 SLEEVE THE SIZE REQUIRED TO EASILY PULL WIRE THROUGH. ALL SLEEVES TO BE INSTALLED WITH A MINIMUM DEPTH AS SHOWN ON THE SLEEVING DETAILS. SLEEVES TO EXTEND AT LEAST 12" PAST THE EDGE OF THE PAVING.
11. ALL QUICK COUPLER AND REMOTE CONTROL VALVES TO BE INSTALLED IN SHRUB OR GROUND COVER AREAS WHERE POSSIBLE. ALL QUICK COUPLER AND REMOTE CONTROL VALVES TO BE INSTALLED AS SHOWN ON THE INSTALLATION DETAILS. INSTALL ALL QUICK COUPLER AND REMOTE CONTROL VALVES WITHIN 18" OF HARDSCAPE.
12. ALL HEADS ARE TO BE INSTALLED WITH THE NOZZLE, SCREEN AND ARCS SHOWN ON THE PLANS. ALL HEADS ARE TO BE ADJUSTED TO PREVENT OVERSPRAY ONTO BUILDINGS, WALLS, FENCES AND HARDSCAPE. THIS INCLUDES, BUT NOT LIMITED TO, ADJUSTMENT OF EXPANDER PER OR ADJUSTMENT SCREW, REPLACEMENT OF PRESSURE COMPENSATING SCREEN, REPLACEMENT OF NOZZLE WITH MORE APPROPRIATE PROPERTIES AND THE REPLACEMENT OF NOZZLES WITH ADJUSTABLE ARC UNITS.
13. CONTRACTOR SHALL INSTALL ADDITIONAL CHECK VALVES TO HEADS AND LATERALS AS REQUIRED TO PREVENT LOW HEAD DRAINAGE.
14. THE CONTRACTOR SHALL USE PROPER GROUNDING TECHNIQUES FOR GROUNDING THE CONTROLLER AND RELATED EQUIPMENT PER MANUFACTURER'S SPECIFICATIONS, SAFETY AND ASSOCIATED RECOMMENDED INSTALLATIONS FOR PROPER GROUNDING AT LEAST ONCE ANNUALLY, AND NECESSARY ADJUSTMENTS MADE TO COMPLY WITH MANUFACTURER SPECIFICATIONS.
15. THE CONTRACTOR IS REQUIRED TO CONTACT DIGALERT (811) A MINIMUM OF TWO (2) DAYS PRIOR TO THE START OF ANY EXCAVATIONS ON THE PROJECT AND SPECIFICALLY PRIOR TO THE INSTALLATION OF ANY GROUNDING RODS. DIAL 811 OR LOG ONTO WWW.DIGALERT.ORG TO START A PROJECT TICKET. DIGALERT AND 811 IS A FREE SERVICE PROVIDED TO THE PROJECT. FAILURE TO CONTACT AND MARK THE EXISTING UTILITIES (811 OR 811) LOCATED AND MARKED SHALL MAKE THE CONTRACTOR SOLELY RESPONSIBLE FOR ANY AND ALL DAMAGE.

VALVE CALLOUT LEGEND

HYDROZONE DESCRIPTION CHART

NUMBER	DESCRIPTION OF THE HYDROZONE	MULCH	PLANT FACTOR
HZ 1	LOW WATER USE PLANTINGS	L	0.20
HZ 2	LOW/MODERATE WATER USE TREES	M	0.42

IRRIGATION METHOD DESCRIPTION CHART

LETTERS	DESCRIPTION OF THE IRRIGATION	TYPE	IR. EFFICIENCY
R	ROTATOR HEADS	SPRAY	0.75
SB	SHRUB BUBBLERS	BUBB	0.75
TB	TREE BUBBLERS	BUBB	0.75

IRRIGATION MATERIAL LEGEND

SYMBOL G	T	H	F	MANUFACTURER	MODEL NO. / DESCRIPTION	FLOW RATE (GPM)	PSI	RADIUS	P.R. (TR.)	DETAIL
				RAIN BIRD	RD-12.5-PRS-P-NP 12" POP-UP SHRUB HEAD WITH R-VAN04 (G/T/H) / R-VAN10 (F)	.32, .42, .63, 1.37	35	14-FT	0.76 IN/HR.	A
				RAIN BIRD	RD-12.5-PRS-P-NP 12" POP-UP SHRUB HEAD WITH R-VAN06 (G/T/H) / R-VAN10 (F)	.50, .92, 1.17, 1.85	35	16-FT	0.76 IN/HR.	A
				RAIN BIRD	RD-12.5-PRS-P-NP 12" POP-UP SHRUB HEAD WITH R-VAN08 (G/T/H) / R-VAN10 (F)	.84, 1.18, 1.85, 2.48	35	24-FT	0.76 IN/HR.	A
				RAIN BIRD	RD-06-5-PRS-P-NP 6" POP-UP BUBBLER HEAD WITH A HUNTER MSBN-250 STREAM BUBBLER NOZZLE. EACH SYMBOL REPRESENTS ONE (1) BUBBLER PER SHRUB	.25	30	1.5-FT	1.00 IN/HR.	A
				RAIN BIRD	RD-06-5-NP 6" POP-UP BUBBLER HEAD WITH A HUNTER MSBN-500 STREAM BUBBLER NOZZLE. EACH SYMBOL REPRESENTS TWO (2) BUBBLER TO PROVIDE A TOTAL OF TWO (2) BUBBLERS PER TREE. PLACE THE BUBBLER HEADS 6-8 (6) INCHES FROM THE ROOT BALL OF THE TREE AND ON OPPOSITE SIDES OF TREE. ADJUST BUBBLER STREAMS TO WET THE ROOT BALL AND ADJACENT AMENDED SOIL WITHOUT HITTING THE TRUNK OF THE TREE	.50 (1.00 TOTAL)	30	1-FT	1.00 IN/HR.	A,B
				P.O.C. #1	EXISTING 1 1/2" POTABLE (DOMESTIC), DEDICATED IRRIGATION WATER METER, FUTURE RECYCLED, WITH 1 1/2" SERVICE LINE. VERIFY SIZE, LOCATION AND PRESSURE IN FIELD.					MM.
				P.O.C. #2, #3, #4	1 1/2" RECYCLED (RECLAIMED) DEDICATED IRRIGATION WATER METER WITH 1 1/2" SERVICE LINE. VERIFY SIZE, LOCATION AND PRESSURE IN FIELD.					MM.
				WILKINS	STRAIN, 1 1/2" RP BACK FLOW PREVENTION DEVICE WITH WYE STRAINER. INSTALL WITH BRASS NIPPLES, UNIONS AND FITTINGS. SIZED PER DEVICE					D
NO SYMBOL				WILKINS	SIZE=1/2, 3/4, 1 1/2" BRONZE, HIGH FLOW PURGE (10-125 PSI) PRESSURE REGULATOR, WITH SINGLE UNIONS PER 2 FUPT CONNECTIONS, SHUT-OFF, PRESSURE REGULATOR ON THE DOWNSTREAM SIDE OF THE BACK FLOW DEVICE. SET WATER PRESSURE TO 15 PSI ABOVE DESIGN PRESSURE SHOWN ON POC NOTES.					D
NO SYMBOL				V.I.T.	STRONG BOX 3880C-4000 "SMOOTH TOUCH" STAINLESS STEEL BACK FLOW DEVICE ENCLOSURE					D
				B.E.P.	BARRETT IRRIGATION BOOSTER PUMP, MOD. # BS40-1.5-2.2-W-PUP. SEE DETAIL. INSTALL PUMP ASSEMBLY PER THE MANUFACTURER'S RECOMMENDATIONS. CONTACT DAVID, GREEN @ 1-800 (949) 559-1311. THE CONTRACTOR SHALL VERIFY EXISTING DYNAMIC WATER PUMPING AT DESIGN FLOW/WATER PRESSURE, STATIC (NO WATER MOVEMENT) WATER PRESSURE AND THE ELECTRICAL POWER SUPPLY PRIOR TO ORDERING THE PUMP.					C
				SLICKNER	3200-VS-FBN 1 1/2" NORMALLY CLOSED, BRASS MASTER CONTROL VALVE. WIRE NCV TO THE CONTROLLER USING A SEPARATE PILOT AND GROUND WIRE, ROUTE INSIDE 1 1/4" SCH. 40 PVC ELECTRICAL CONDUIT. INSTALL INSIDE A STANDARD RECTANGULAR VALVE BOX.					E
				ERITROL	1 1/2" FLOW SENSOR, AS PART OF CONTROLLER ASSEMBLY. WIRE TO CONTROLLER USING TWO (2) #14UF AWG WIRES INSIDE A 1 1/4" SCH. 40 PVC (GRAY) ELECTRICAL CONDUIT. INSTALL PER MANUFACTURER'S RECOMMENDATIONS AND INSIDE A STANDARD RECTANGULAR VALVE BOX.					F
				LISCO	1/2" SCH. 80 C 2 1/2" SLIP CLOSE SCH. 40 PVC, TRUE UNION BALL VALVE WITH SOLVENT WELD SOCKET CONNECTIONS, LINE SIZE PER MAINLINE. INSTALL INSIDE A 10" ROUND VALVE BOX.					G
				SIGNATURE	7845 1" INCH POTABLE ACME THREADED QUICK COUPLER VALVE WITH PURPLE LOCKING RUBBER COVER. INSTALL WITHIN 12" ROUND VALVE BOX.					H
				RAIN BIRD	100 LPR SERIES PSI-0 PRESSURE REGULATING, PLASTIC REMOTE CONTROL VALVE (RCV), SIZE AS SHOWN ON 1" AND 1 1/2" SIZING. SET PRS-0 PRESSURE REGULATOR TO PROVIDE THE OPERATING PRESSURE OF THE SPRINKLER (30-60 PSI) HEAD AT THE HEADER OR AT THE HEADER OR AT THE HIGH ON THE CONTROL VALVE ZONE (MEASURE PSI AT HEAD). INSTALL THE RCV INSIDE A STANDARD RECTANGULAR VALVE BOX.					I
				I.T.S.	CONTROLLER "D" SHALL BE MODEL #1CM-R1-24SRPRCL-PRRCRMPLUMP3-1500MP16 CONTROLLER "E" SHALL BE MODEL #1CM-R1-24SRPRCL-PRRCRPS-1500MP16 CONTROLLER "C" SHALL BE MODEL #1CM-R1-24SRPRCL-PRRCRPS-1500MP16 CONTROLLER "D" SHALL BE MODEL #1CM-R1-24SRPRCL-PRRCRPS-1500MP16 CONTROLLER AS SIMILIES SHALL BE 24 STATIONS EACH, INCLUDING TOP ENTRY STAINLESS STEEL ENCLOSURES					J
				N/A	120 VOLT ELECTRICAL POWER FOR CONTROLLER, PROVIDED BY ELECTRICIAN. VERIFY ACTUAL LOCATION IN FIELD					MM.
				N/A	230 VOLT (SINGLE/STAGE) PHASE ELECTRICAL POWER FOR BOOSTER PUMP SYSTEM, PROVIDED BY ELECTRICIAN. VERIFY ACTUAL LOCATION IN FIELD					MM.
				AS APPROVED	PURPLE RECYCLED WATER PVC PIPE SCH. 40, SOLVENT WELD WITH SCH. 40 PVC FITTINGS. AS LATERAL LINES INSTALLED 12" BELOW FINISHED GRADE					K
				AS APPROVED	PURPLE RECYCLED WATER PVC PIPE 2 1/2" CL. 315, SOLVENT WELD WITH SCH. 80 PVC FITTINGS, AS MAINLINES INSTALLED 18" BELOW FINISHED GRADE					K
				AS APPROVED	PVC PIPE SCH. 40 AS SLEEVING, 2 TIMES THE DIAMETER OF PIPE OR WIRE BUNDLE CARRIED (2" MINIMUM SIZE) INSTALL ALL PIPE AND WIRE UNDER PAVING, HARDSCAPE, ETC. (OR AS DIRECTED BY OWNER'S AUTHORIZED REPRESENTATIVE) INSIDE SLEEVES. SLEEVES UNDER PEDESTRIAN PAVING SHALL BE INSTALLED 24" BELOW FINISHED GRADE. SLEEVES UNDER VEHICULAR PAVING SHALL BE INSTALLED 30" BELOW FINISHED GRADE					L
NO SYMBOL				LISCO	ALL FITTINGS USED WITH SOLVENT WELD MAINLINE PIPE SHALL BE SCH. 80 PVC FITTINGS, GRAY IN COLOR, AND SIZED TO MATCH THE MAINLINE PIPE. ALL FITTINGS USED WITH SOLVENT WELD LATERAL LINE PIPE SHALL BE SCH. 40 PVC, WHITE IN COLOR, AND SIZED TO MATCH THE LATERAL LINE PIPE. ALL THREADED PVC NIPPLES SHALL BE SCH. 80 PVC PIPE, DARK GRAY IN COLOR, WITH MOLDED THREADS.					MM.
NO SYMBOL				AS APPROVED	ALL SOLVENT WELD CONNECTIONS FOR BOTH MAINLINE AND LATERAL LINE SHALL BE MADE USING THE TWO-STEP PROCESS OF PRIMER AND SOLVENT CEMENT. PRIMER SHALL BE LISCO KCC "PURPLE PRIMER". MAINLINE SOLVENT CEMENT SHALL BE LISCO KCC, "GRAY HEAVY BODY" CEMENT. LATERAL LINE SOLVENT CEMENT SHALL BE LISCO KCC, GRAY OR BLUE (COLORED) HEAVY BODY CEMENT. USE (MUNITS) SIZED AT LEAST ONE-HALF THE SIZE OF THE LARGEST PIPE BEING JOINED. ALL SOLVENT CEMENTED JOINTS SHALL BE MADE PER THE PIPE AND FITTING MANUFACTURER'S RECOMMENDATIONS.					MM.
NO SYMBOL				AS APPROVED	1/2" SCH. 40 PVC, GRAY ELECTRICAL CONDUIT FOR FLOW SENSOR / MASTER VALVE WIRES. PROVIDE PULL BOX AT A MAXIMUM OF 200 FEET ON CENTER FOR A STRAIGHT WIRE LOOP OR ANY SPLICES. INSTALL INSIDE A STANDARD RECTANGULAR VALVE BOX.					MM.
NO SYMBOL				PAGE ELECTRIC	PE1500 POLYETHYLENE INSULATED, SOLID COPPER CONDUCTOR IRRIGATION CONTROL WIRE #14UF AWG DIRECT BURIAL (U.L. APPROVED). PILOT WIRES SHALL BE RED IN COLOR, COMMON GROUND WIRE SHALL BE WHITE IN COLOR. SPARE WIRES SHALL BE YELLOW IN COLOR. WHERE MULTIPLE CONTROLLERS ARE USED ON THE PROJECT, EACH CONTROLLER SHALL HAVE A DIFFERENT COLOR FOR PILOT WIRES. THE CONTRACTOR SHALL ROUTE TWO (2) SPARE CONTROL WIRES (YELLOW) FROM THE CONTROLLER ALONG THE MAINLINE IN ALL DIRECTIONS AWAY FROM THE CONTROLLER. LOOP SPARE WIRES UP AND INTO EACH VALVE BOX ALONG THE MAINLINE, PROVIDE A 3 FOOT MINIMUM LOOP.					K,L,M
NO SYMBOL				3M IRRIGATION	SCOTCHLOK DIRECT BURIAL, 100% SILICONE GEL, WATER PROOF WIRE CONNECTORS FOR USE ON ALL WIRE SPLICES AND CONNECTIONS					M
NO SYMBOL				NDS (K-811)	KSC-200-S SPRING CHECK VALVE, LATERAL LINE SIDE. INSTALL ONE (1) ON THE DOWNSTREAM SIDE OF EACH RCV WHEN THE RCV IS LOWER THAN THE SPRINKLERS, BUBBLERS OR DRIP EMITTERS. INSTALL WITHIN SPRINKLER / BUBBLER / DRIP ZONES AS REQUIRED TO PREVENT LOW HEAD DRAINAGE					MM.
NO SYMBOL				NDS (K-811)	KC-100-S SPRING CHECK VALVE, LATERAL LINE SIDE. INSTALL ONE (1) ON THE DOWNSTREAM SIDE OF EACH RCV WHEN THE RCV IS HIGHER THAN THE SPRINKLERS, BUBBLERS OR DRIP EMITTERS. INSTALL WITHIN SPRINKLER / BUBBLER / DRIP ZONES AS REQUIRED TO PREVENT LOW HEAD DRAINAGE					MM.
NO SYMBOL				AS APPROVED	RECYCLED WATER SIGNS, INSTALL QUANTITY AND LOCATIONS PER COUNTY REQUIREMENTS					N
NO SYMBOL				T. CHRISTY'S	PURPLE RECYCLED WATER WARNING TAGS, ATTACH TO ALL EQUIPMENT, PER COUNTY REQUIREMENT					MM.
NO SYMBOL				3M	MODEL TA-NO-PRINT, 2 1/2" AND 1" RECYCLED WATER MAINLINE IDENTIFICATION TAPE TO BE INSTALLED ALONG ENTIRE SURFACE OF PIPE					MM.
NO SYMBOL				RAIN BIRD	ALL VALVE BOXES SHALL BE VB SERIES, PLASTIC TYPE WITH OVERLAPPING LIDS. VALVE BOX BODIES SHALL BE BLACK IN COLOR. LIDS FOR BOXES IN SHRUB AREAS SHALL BE BLACK, EDGED WITH PURPLE LIDS. ALL BOXES SHALL BE SECURED WITH A STAINLESS STEEL COUPLER PRETA HEAD BOLT, WASHER AND CLIP. BOXES SHALL BE AS SHOWN BELOW:					MM.

DESCRIPTION	SHRUB AREAS (BLACK BODIES AND LIDS)
10" ROUND BOXES	VB-10RHB (BOX) AND VB-10RHBPL (LID)
STANDARD RECTANGULAR BOXES	VB-STDHB (BOX) AND VB-STDPL (LID)

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

sweeney + associates
IRRIGATION DESIGN AND CONSULTING

Underground Service Alert
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811

BENCHMARK No. 166-90	REVISIONS		
ELEV. 1033.16	△ DESCRIPTION	DATE	APR.
DESC.	100% CD SUBMISSION	3/29/19	
BM — PK & LEAD IN CURB @ SE CORNER OF BONITO STREET AND VIGNONT AVENUE, ON FRAGNOT 37± SOUTH OF BLDG.	90% CD SUBMISSION	5/28/19	

CENTRAL AVENUE REHABILTIATION
PHILLIPS BLVD. TO PACIFIC ELECTRIC BIKE TRAIL

IRRIGATION LEGEND AND NOTES

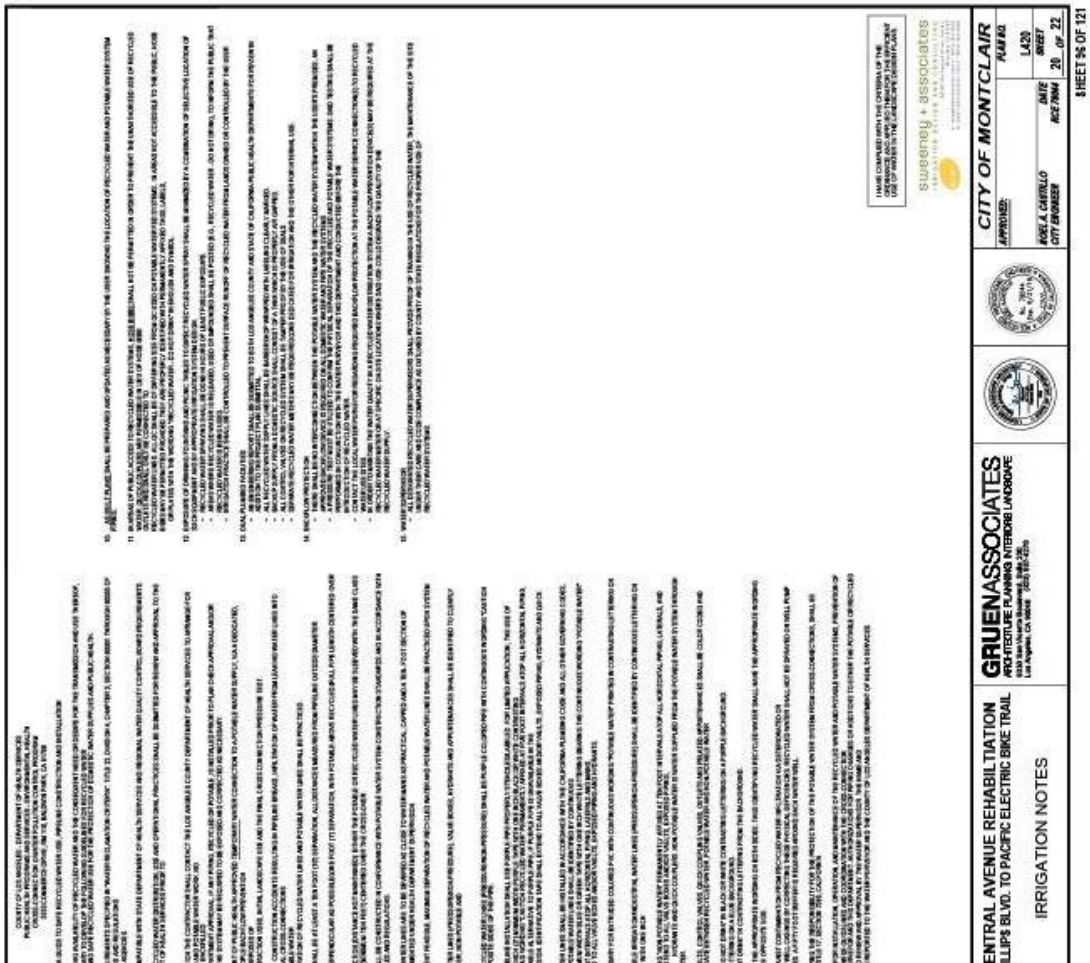
GRUENASSOCIATES
ARCHITECTURE PLANNING INTERIORS LANDSCAPE
8330 San Vicente Boulevard, Suite 300
Los Angeles, CA 90048 (323) 930-4200

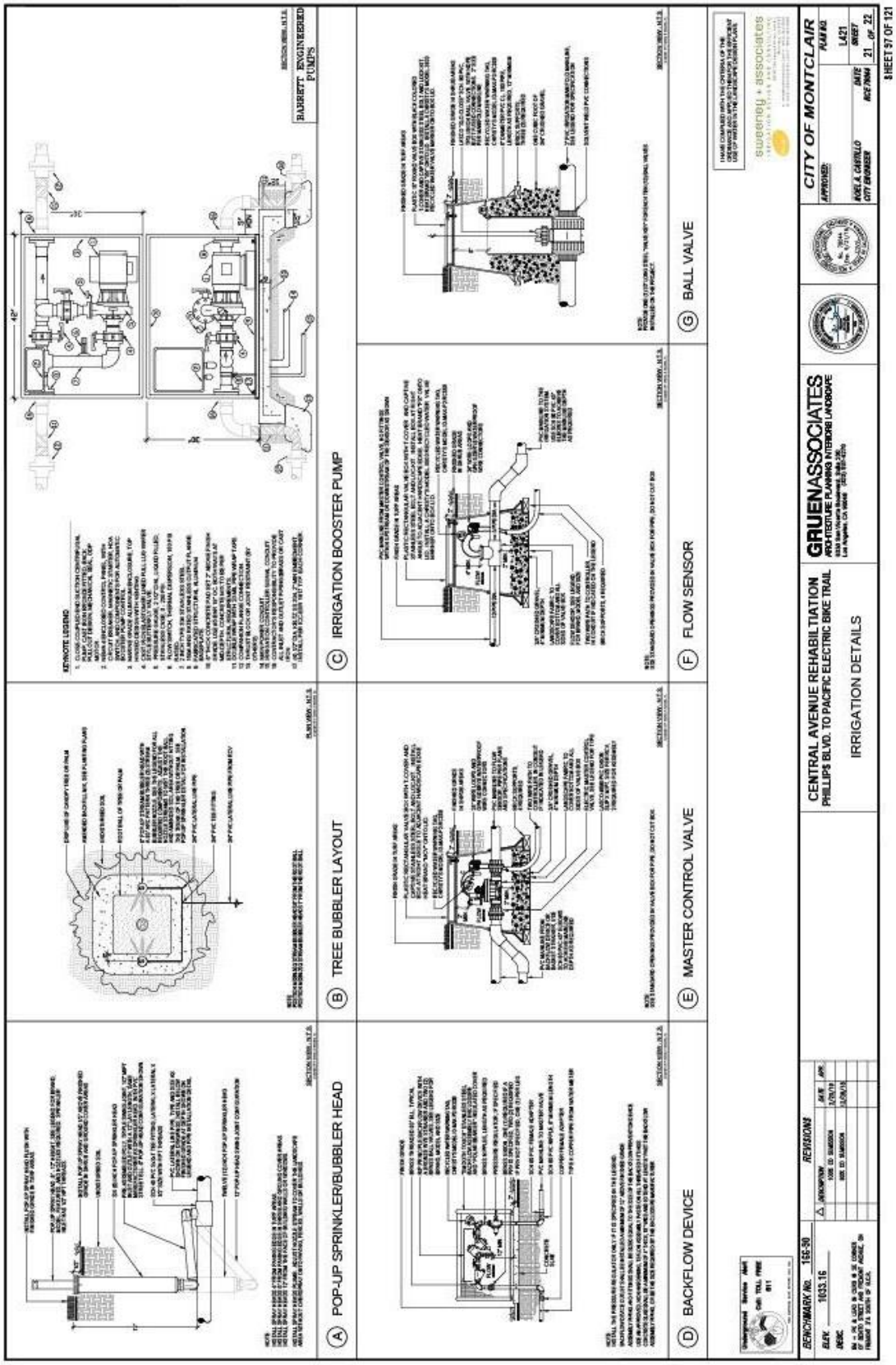
CITY OF MONTCLAIR

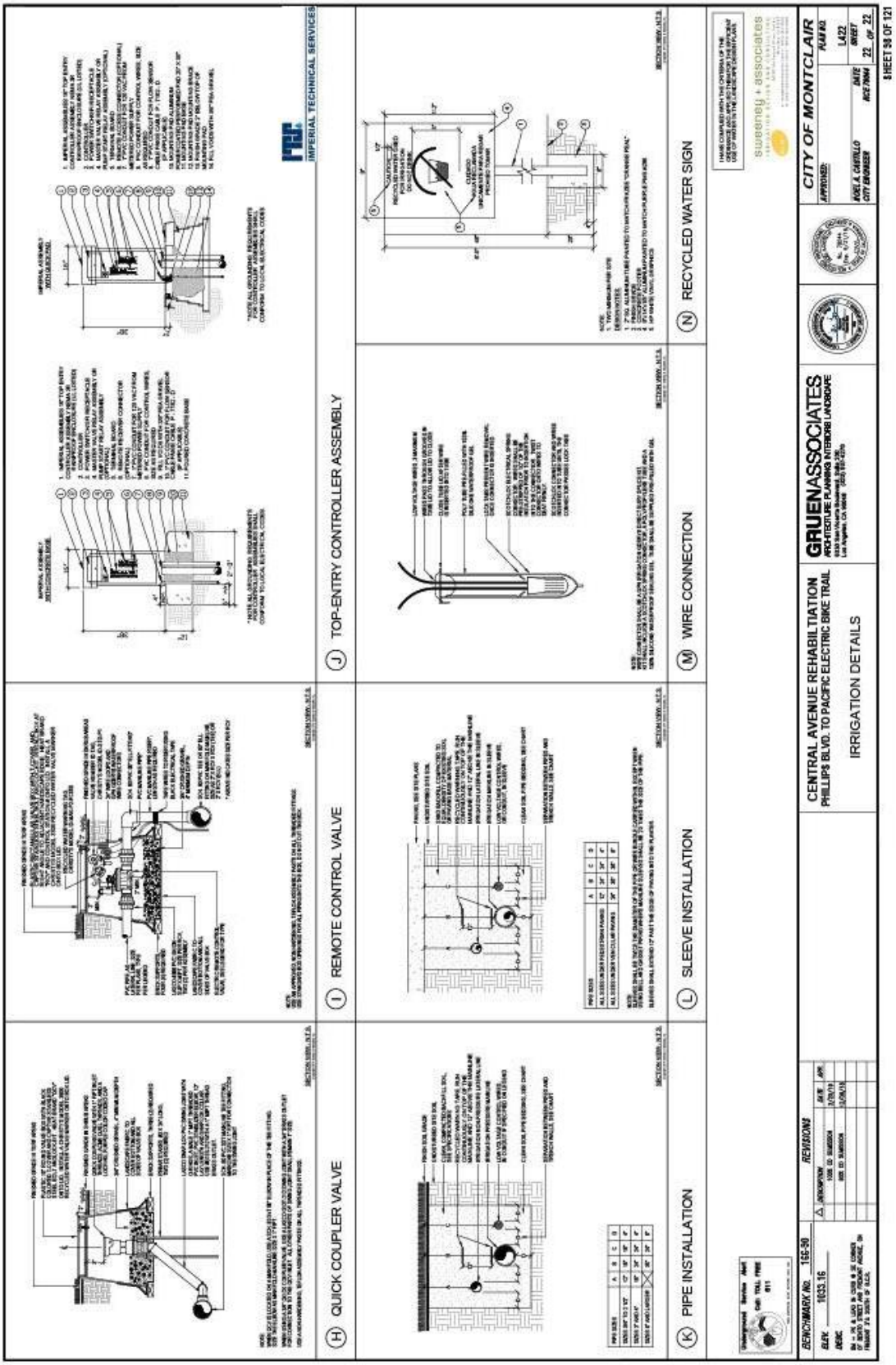
APPROVED:
ROEL A. CASTILLO, CITY ENGINEER — DATE / RCE 76044

PLAN NO. L419
SHEET 19 OF 22

SHEET 95 OF 121


CENTRAL AVENUE REHABILITATION
PHILLIPS BLVD. TO PACIFIC ELECTRIC BIKE TRAIL
IRRIGATION NOTES
GRUENASSOCIATES
CITY OF MONTCLAIR
SHEET 36 OF 121


BARRETT ENGINEERED PUMPS
KEYNOTE LEGEND
(C) IRRIGATION BOOSTER PUMP
(B) TREE BUBBLER LAYOUT
(A) POP-UP SPRINKLER/BUBBLER HEAD
(G) BALL VALVE
(F) FLOW SENSOR
(E) MASTER CONTROL VALVE
(D) BACKFLOW DEVICE
CITY OF MONTCLAIR
GRUENASSOCIATES
CENTRAL AVENUE REHABILITATION
PHILLIPS BLVD. TO PACIFIC ELECTRIC BIKE TRAIL
IRRIGATION DETAILS
REVISIONS
BENCHMARK NO. 156-30
ELEV. 1633.16
L421
SHEET 97 OF 121


IMPERIAL TECHNICAL SERVICES
(H) QUICK COUPLER VALVE
(I) REMOTE CONTROL VALVE
(J) TOP-ENTRY CONTROLLER ASSEMBLY
(K) PIPE INSTALLATION
(L) SLEEVE INSTALLATION
(M) WIRE CONNECTION
(N) RECYCLED WATER SIGN
CENTRAL AVENUE REHABILITATION
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ANGEL A. CARRILLO
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