



CONSULTANT
ICON ATELIER, INC.
TEL. (714) 681-0823
iconpak@yahoo.com

COPYRIGHT RESERVED
OWNERSHIP, COPYRIGHTS AND USE OF
DRAWINGS, DOCUMENTS, SPECIFICATIONS AND
COPIES THEREOF FURNISHED BY ICON ATELIER
INC. ARE AND SHALL REMAIN ITS PROPERTY.
THEY ARE TO BE USED ONLY WITH RESPECT TO
THIS PROJECT. FEDERAL LAW PROHIBITS THE
REPRODUCTION, DISPLAY, SALE, OR OTHER
DEPOSITION OF THIS DOCUMENT WITHOUT THE
EXPRESS WRITTEN CONSENT OF ICON ATELIER
INC. ALL RIGHTS RESERVED.

CLIENT
B & K ROAD SERVICE
15480 JACKSON DRIVE,
FONTANA, CA 92336

PROJECT
**PROPOSED TRUCK
TIRE REPAIR SHOP**

15817 BOYLE AVENUE,
FONTANA, CA 92337

PROPOSED TRUCK TIRE REPAIR SHOP AT 15817 BOYLE AVE, FONTANA, CA 92337

HYDROLOGY REPORT - EDS23-00025: APPROVED 4.8.25
PERCOLATION REPORT: APPROVED 4.8.25
WQMP #17-000021: APPROVED 3.28.25
ONSITE WASTEWATER TREATMENT SYSTEM - WQ 2014-0153-DWQ: APPROVED 7.12.24
PRECISE GRADING PLANS: APPROVED 4.8.25
LANDSCAPE PLANS: APPROVED 11.02.23
EASEMENT DEED - DOC# 2024-0201823: RECORDED 8.17.24
COST ESTIMATE - ELPC23-000025: APPROVED 5.30.25
LAND IMPROVEMENT AGREEMENT - ASP21-028 / MCN21-054 / CUP21-008: 6.24.25 (BOND GUARANTEE \$30,170.48)
STREET LIGHT PLAN - ELPC23-000025: APPROVED 8.11.25

MCN25-0083
CUP25-0021
ASP25-0031



COPYRIGHT RESERVED
 OWNERSHIP, COPYRIGHTS AND USE OF DRAWINGS, DOCUMENTS, SPECIFICATIONS AND COPIES THEREOF FURNISHED BY ICON ATELIER INC. ARE AND SHALL REMAIN ITS PROPERTY. THEY ARE TO BE USED ONLY WITH RESPECT TO THIS PROJECT. FEDERAL LAW PROHIBITS THE REPRODUCTION, DISPLAY, SALE, OR OTHER DEPOSITION OF THIS DOCUMENT WITHOUT THE EXPRESS WRITTEN CONSENT OF ICON ATELIER INC. ALL RIGHTS RESERVED.

CLIENT
B & K ROAD SERVICE
 15480 JACKSON DRIVE,
 FONTANA, CA 92336

PROJECT
**PROPOSED TRUCK
 TIRE REPAIR SHOP**

15817 BOYLE AVENUE,
 FONTANA, CA 92337

CONSULTANTS:
 ARCHITECT/ENGINEER
 SEAL AND SIGNATURE

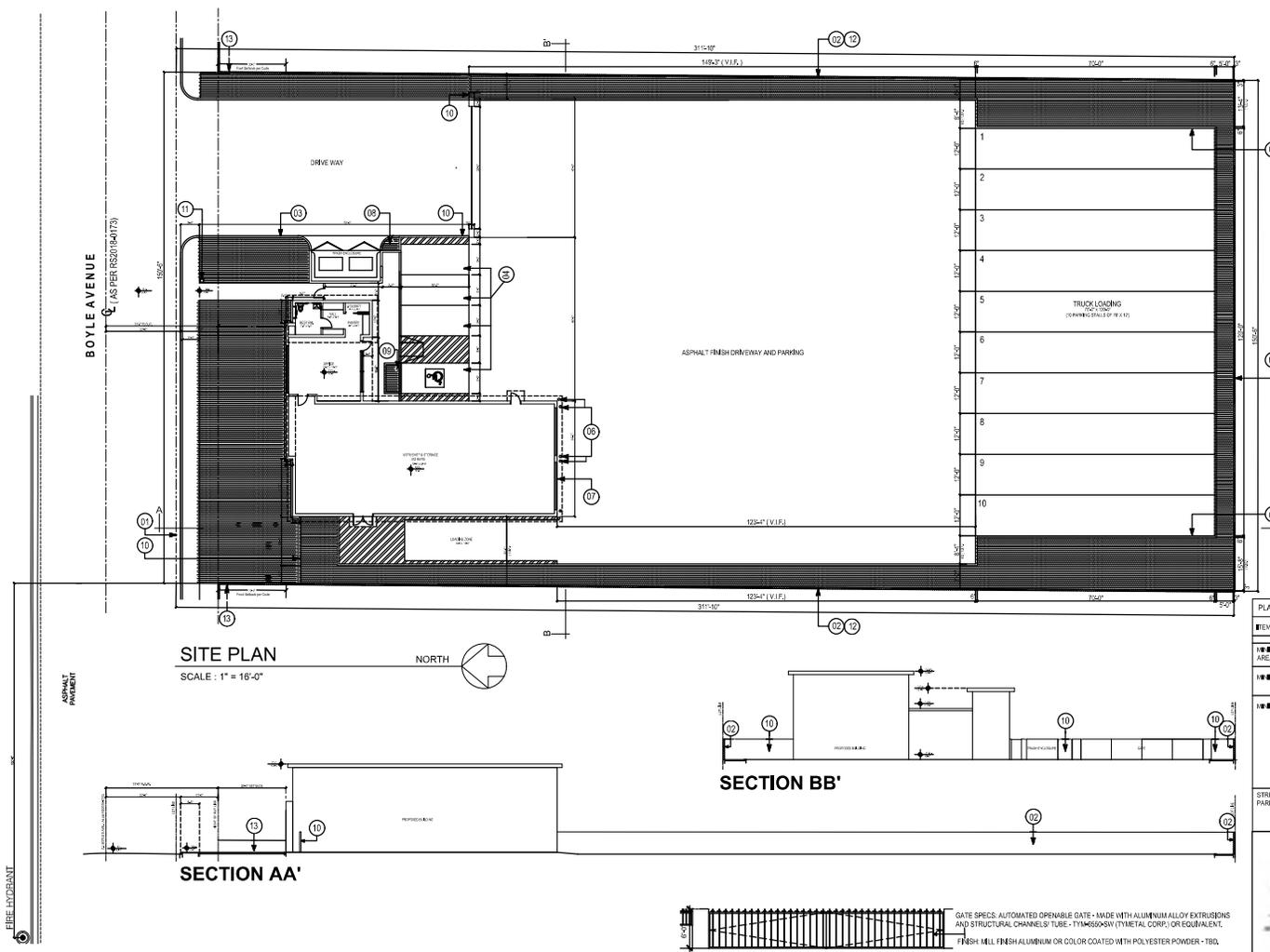
ASSOCIATE CONSULTANTS:
 SEAL AND SIGNATURES

DRAWINGS/ISSUE
 DATE DESCRIPTION DELTA

DATE 08.04.2025
 DRAWN 100
 REVIEWED 140
 PROJECTING 18/10/2025
 SCALE AS NOTED
 SHEET TITLE

SITE PLAN

SHEET NO.
A-1.0



SITE AREA CALCULATION

TOTAL SITE AREA:	46,839 SF (LOT AREA)
	-3431 SF (BUILDINGS)
	+893 SF (LOADING ZONE)
	42,605 SF = TOTAL SITE AREA

PLANTING REQUIREMENTS

ITEM	REQUIRED	PROVIDED
■ BALM LANDSCAPE AREA	10% OF TOTAL SITE AREA 4,260 SF X 0.10 = 426 SF	9,334 SF
■ MINUM # OF TREES	1 TREE / 100 SF OF LANDSCAPED AREA 4,260 SF / 100 SF = 42 TREES	20 TREES
■ MINUM PLANT TYPES	TREES (20 TOTAL): 50% 10 GALLON # 11 TREES 40% 24 INCH BOX # 8 TREES 10% 30 INCH BOX # 2 TREES	TREES 24 INCH BOX # 17 TREES 30 INCH BOX # 3 TREES 12" BARE TRUNK HEIGHT PALMS 24" BOX # 0 TREES
SHRUBS (208 TOTAL)	50% 5 GALLON # 154 50% 1 GALLON # 154	SHRUBS 5 GALLON # 172 1 GALLON # 156
STREET TREES / PARKWAY	1 TREE (24" BOX # 8) PER EACH 30 LF OF STREET FRONTAGE 150 LF = 5 TREES	DUE TO WIDTH OF TRUCK DRIVE AND TURNING RADIUS TREES ARE PROVIDED IN PARKWAY # 15. ALL MINIMUM TREES IN ADJUTING YARD: 3 TREES TOTAL.



PROJECT INFORMATION

OWNER:	B & K ROAD SERVICE 15480 JACKSON DRIVE, FONTANA, CA 92336,
HOURS OF OPERATION:	07 DAYS A WEEK, 7:00 AM TO 7:00 PM
ZONING:	FREEWAY INDUSTRIAL DISTRICT WITHIN SOUTHWEST INDUSTRIAL PLAN
BUILDING STORES:	ONE
CONSTRUCTION TYPE:	V-B
OCCUPANCY:	B
BUILDING SPRINKLED:	YES
LOT AREA:	46,839 SF (1.078 ACRES)
BUILT-UP AREA DETAILS:	
PROPOSED OFFICE BUILDING:	728 SF
PROPOSED WORKSHOP BUILDING:	2205 SF
TOTAL BUILT UP AREA:	2933 SF

PARKING SUMMARY

PARKING CALCULATION:	
FROM TABLE 30-314.A	
REQUIRED NUMBER OF PARKING SPACES FOR AUTOMOBILE SERVICE STATION OR REPAIR FACILITY:	
1 PARKING SPACE FOR 300 SF OF SERVICE BAY.	
1 PARKING SPACE PER EMPLOYEE.	
TOTAL AREA OF WORKSHOP SERVICE BAY: 2516 SF	
REQUIRED PARKING FOR SERVICE BAYS: 2516/300 = 8.4	
REQUIRED PARKING FOR EMPLOYEES:	03 EMPLOYEES + 03 PARKING
TYPICAL PARKING STALL SIZE:	9'-0" x 20'-0"
PARKING STALLS BREAKDOWN:	
PROPOSED STANDARD PARKING STALLS:	03
PROPOSED HANDICAPPED STALL:	01
PROPOSED TRUCK PARKING:	10
PROPOSED LOADING PARKING:	01

APPLICABLE CODE SUMMARY

C.E.G. TITLE 24 ACCESS COMPLIANCE:

THE PROJECT SHALL COMPLY WITH CORP TITLE 24 (PART 6 - CALIFORNIA ENERGY COMPLIANCE AND THE AMERICANS WITH DISABILITIES ACT (ADA) FOR DISABLED ACCESS REQUIREMENTS.

CODE COMPLIANCE:

THE PROJECT SHALL COMPLY WITH THE CODES, ORDINANCES, OR LAWS HAVING JURISDICTION ON THE PROJECT - WHICH INCLUDE, BUT ARE NOT LIMITED TO:

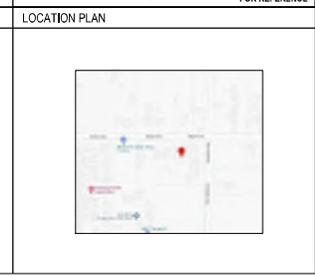
- 2019 CALIFORNIA BUILDING CODE (PART 2, TITLE 24, CCR)
- 2019 CALIFORNIA ELECTRICAL CODE (PART 7, TITLE 24, CCR)
- 2019 CALIFORNIA MECHANICAL CODE (PART 4, TITLE 24, CCR)
- 2019 CALIFORNIA PLUMBING CODE (PART 5, TITLE 24, CCR)
- 2019 CALIFORNIA FIRE CODE (PART 9, TITLE 24, CCR)
- 2019 CALIFORNIA REFERENCE STANDARDS CODE (PART 12, TITLE 24, CCR)
- AMERICANS WITH DISABILITY ACT (ADA)
- 2019 CALIFORNIA GREEN BUILDING STANDARDS (PART 11, TITLE 24, CCR)

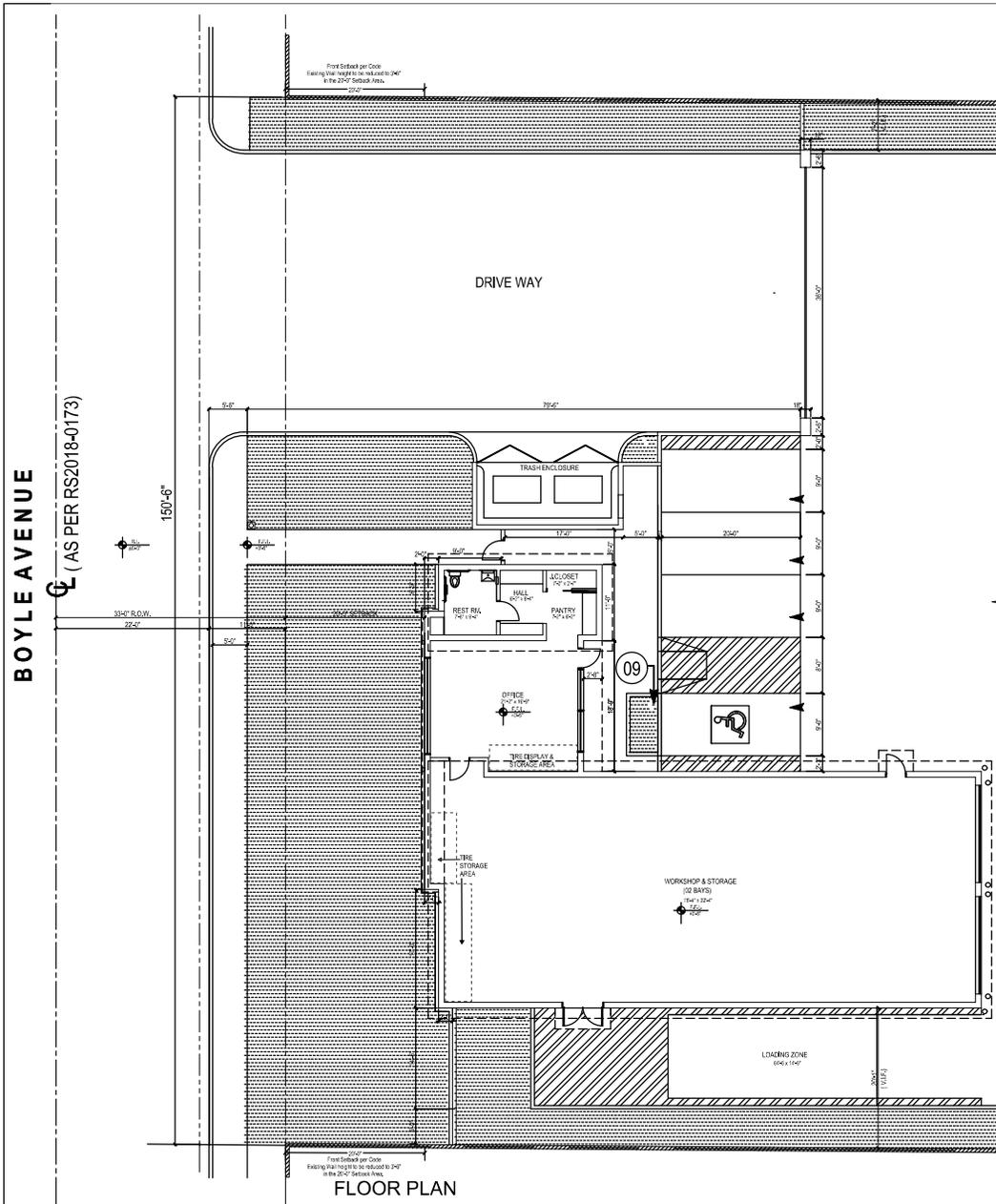
KEY NOTES

- 1 Property Line
- 2 Existing 6' High Boundary wall to remain
- 3 Proposed 6" Concrete Curb
- 4 Proposed Parking
- 5 Proposed Landscape
- 6 8"Ø Concrete Filled Bulbair
- 7 14'-0" W x 15'-0" H Roller Steel Shutter
- 8 Alter
- 9 Tree Planter
- 10 Proposed 6" High Boundary wall
- 11 Proposed Street Light
- 12 All existing metal fencing over the existing 6' high (both side) wall towards the rear end to be removed completely and repair to match existing walls and code.
- 13 Existing Wall Height to be reduced to 3'-0" in the 20'-0" Setback Area.

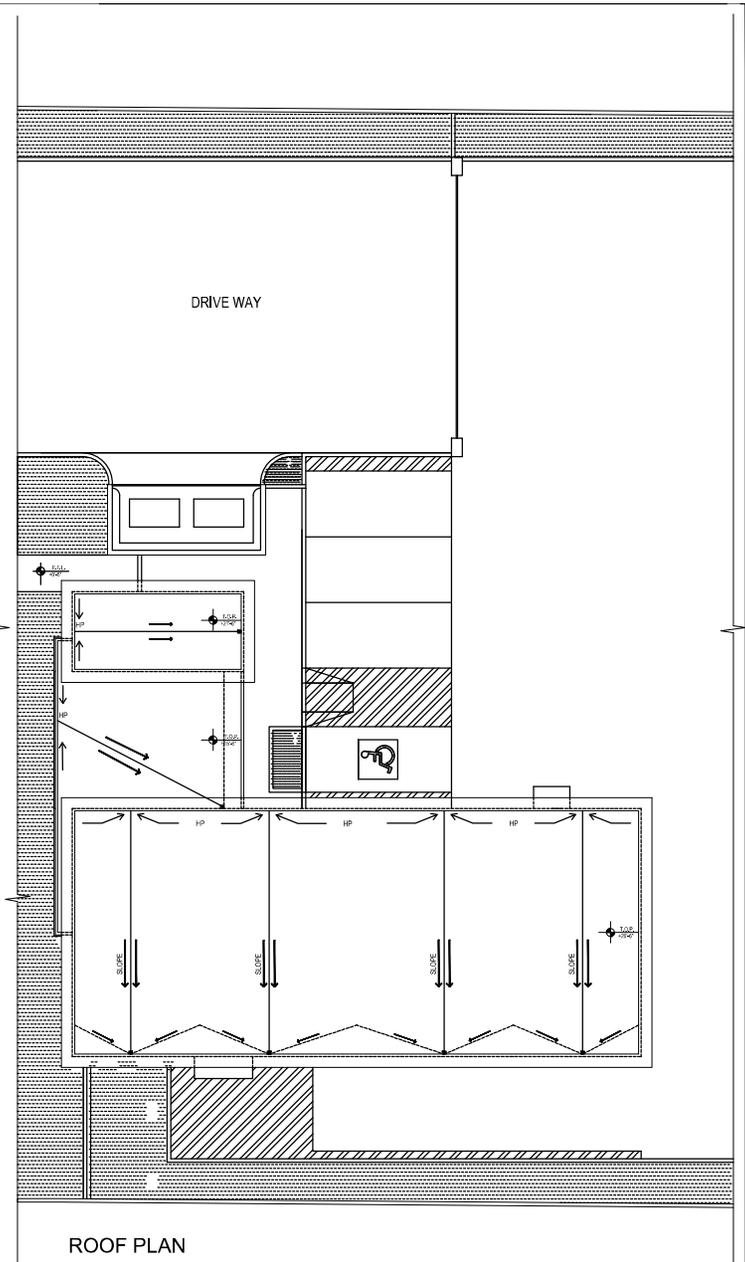
LEGEND

PROPERTY LINE	---
EXISTING BOUNDARY WALL	▨
PROPOSED LANDSCAPE	■
NO PARKING	▨
PROPOSED CONSTRUCTION	□





FLOOR PLAN
SCALE: 1/8"=1'-0"



ROOF PLAN
SCALE: 1/8"=1'-0"



CONSULTANT
ICON ATELIER, INC.
TEL. (714) 681-0823
iconpak@yahoo.com

COPYRIGHT RESERVED
OWNERSHIP, COPYRIGHTS AND USE OF DRAWINGS, DOCUMENTS, SPECIFICATIONS AND COPIES THEREOF FURNISHED BY ICON ATELIER, INC. ARE AND SHALL REMAIN ITS PROPERTY. THEY ARE TO BE USED ONLY WITH RESPECT TO THIS PROJECT. FEDERAL LAW PROHIBITS THE REPRODUCTION, DISPLAY, SALE, OR OTHER DEPOSITION OF THIS DOCUMENT WITHOUT THE SIGNATURE AND THE CONSENT OF ICON ATELIER, INC. ALL RIGHTS RESERVED.

CLIENT
B & K ROAD SERVICE
15480 JACKSON DRIVE,
FONTANA, CA 92336

PROJECT
**PROPOSED TRUCK
TIRE REPAIR SHOP**

15617 BOYLE AVENUE,
FONTANA, CA 92337

CONSULTANTS:
ARCHITECT/ENGINEER
SEAL AND SIGNATURE

ASSOCIATE CONSULTANTS:
SEAL AND SIGNATURE

DRAWINGS/ISSUE
DATE DESCRIPTION DELTA

DATE: 06/04/2021
DRAWING: 100
REVISION: 1-0
PROJECTING: BA1015000
SCALE: AS NOTED

SHEET TITLE
**FLOOR PLAN
& ROOF PLAN**

SHEET NO.
A-2.0



CONSULTANT
ICON ATELIER, INC.
 TEL. (714) 681-0823
 iconpak@yahoo.com

COPYRIGHT RESERVED
 OWNERSHIP, COPYRIGHTS AND USE OF
 DRAWINGS, DOCUMENTS, SPECIFICATIONS AND
 COPIES THEREOF FURNISHED BY ICON ATELIER
 INC. ARE AND SHALL REMAIN ITS PROPERTY.
 THEY ARE TO BE USED ONLY WITH RESPECT TO
 THIS PROJECT. FEDERAL LAW PROHIBITS THE
 REPRODUCTION, DEBRIAY, SALE, OR OTHER
 DEPOSITION OF THIS DOCUMENT WITHOUT THE
 EXPRESS WRITTEN CONSENT OF ICON ATELIER
 INC. ALL RIGHTS RESERVED.

CLIENT
B & K ROAD SERVICE
 15480 JACKSON DRIVE,
 FONTANA, CA 92336

PROJECT
**PROPOSED TRUCK
 TIRE REPAIR SHOP**

15817 BOYLE AVENUE,
 FONTANA, CA 92337

SEAL & SIGNATURE:

ASSOCIATE CONSULTANTS:

DRAWINGS/ISSUE
 DATE DESCRIPTION DELTA

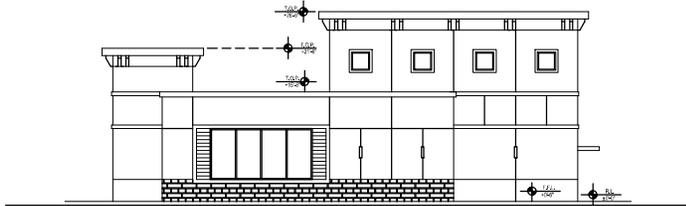
DATE 08.01.2022
 DRAWN 100
 REVIEWED 140
 PROJECTING 04/13/2022
 SCALE AS NOTED

SHEET TITLE

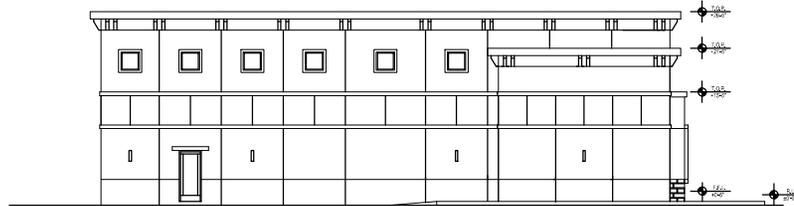
ELEVATIONS

SHEET NO.

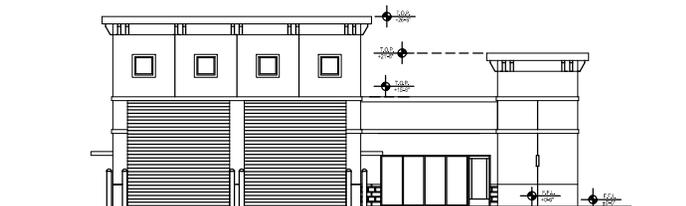
A-3.0



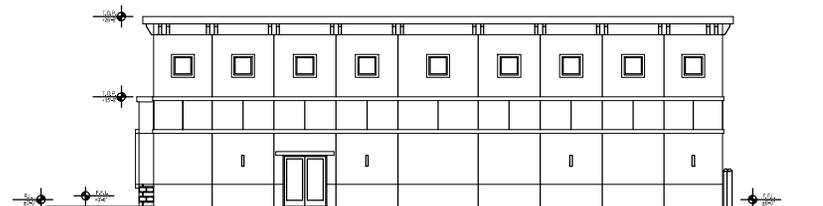
NORTH ELEVATION
 SCALE: 1/8"=1'-0"



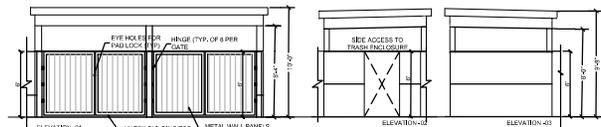
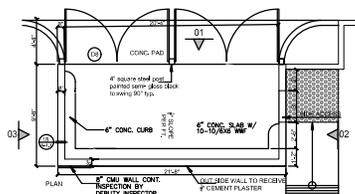
EAST ELEVATION
 SCALE: 1/8"=1'-0"



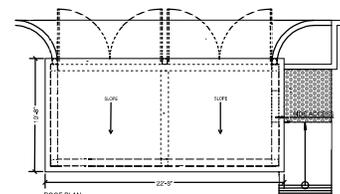
SOUTH ELEVATION
 SCALE: 1/8"=1'-0"



WEST ELEVATION
 SCALE: 1/8"=1'-0"



TRASH ENCLOSURE
 SCALE: 3/16"=1'-0"





CONSULTANT
ICON ATELIER, INC.
 TEL. (714) 681-0823
 iconpak@yahoo.com

COPYRIGHT RESERVED
 OWNERSHIP, COPYRIGHTS AND USE OF
 DRAWINGS, DOCUMENTS, SPECIFICATIONS AND
 COPIES THEREOF FURNISHED BY ICON ATELIER
 INC. ARE AND SHALL REMAIN ITS PROPERTY.
 THEY ARE TO BE USED ONLY WITH RESPECT TO
 THIS PROJECT. FEDERAL LAW PROHIBITS THE
 REPRODUCTION, DISPLAY, SALE, OR OTHER
 DEPOSITION OF THIS DOCUMENT WITHOUT THE
 EXPRESS WRITTEN CONSENT OF ICON ATELIER
 INC. ALL RIGHTS RESERVED.

CLIENT
B & K ROAD SERVICE
 15480 JACKSON DRIVE,
 FONTANA, CA 92336

PROJECT
**PROPOSED TRUCK
 TIRE REPAIR SHOP**

15817 BOYLE AVENUE,
 FONTANA, CA 92337

SEAL & SIGNATURE:

ASSOCIATE CONSULTANTS:

DRAWINGS ISSUE
 DATE DESCRIPTION DELTA

DATE 08.04.2022
DRAWN NS
REVIEWED HC
PROJECTING BA1919001
SCALE AS NOTED

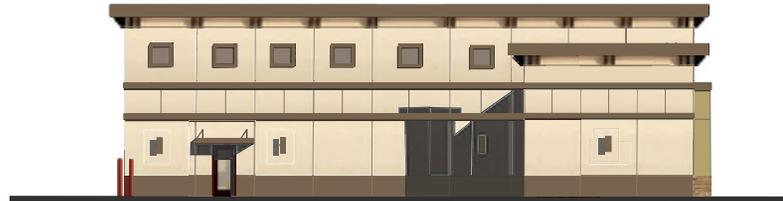
SHEET TITLE
**RENDERED
 ELEVATIONS**
PER CITY COMMENTS DATED 12.22.21

SHEET NO.

A-3.1



NORTH ELEVATION (FRONT)



EAST ELEVATION



SOUTH ELEVATION



WEST ELEVATION



1 - STUCCO SMOOTH
 FINISH TEXTURE



2 - FLOATING FEATHER
 DE 6142 BY DUNN EDWARDS



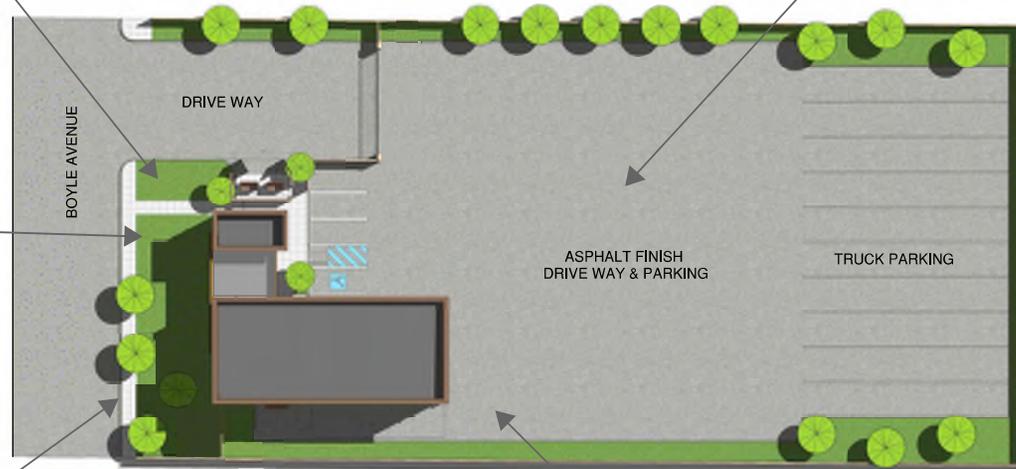
3 - GRAHAM CRACKER
 DE 6144 BY DUNN EDWARDS



4 - CORONADO "SUNRISE"
 OLD WORLD LEDGE



5 - VINTAGE WOOD
 CEDAR BY NICHIIA



SITE PLAN
SCALE : 1" = 16'-0"



ICON
CONSULTANT
ICON ATELIER, INC.
TEL. (714) 681-0823
iconpak@yahoo.com

COPYRIGHT RESERVED
OWNERSHIP, COPYRIGHTS AND USE OF
DRAWINGS, DOCUMENTS, SPECIFICATIONS AND
COPIES THEREOF FURNISHED BY ICON ATELIER
INC ARE AND SHALL REMAIN ITS PROPERTY.
THEY ARE TO BE USED ONLY WITH RESPECT TO
THIS PROJECT. FEDERAL LAW PROHIBITS THE
REPRODUCTION, DISPLAY, SALE, OR OTHER
DEPOSITION OF THIS DOCUMENT WITHOUT THE
EXPRESS WRITTEN CONSENT OF ICON ATELIER
INC. ALL RIGHTS RESERVED.

CLIENT
B & K ROAD SERVICE
15480 JACKSON DRIVE,
FONTANA, CA 92336

PROJECT
**PROPOSED TRUCK
TIRE REPAIR SHOP**

15817 BOYLE AVENUE,
FONTANA, CA 92337

SEAL & SIGNATURE:

ASSOCIATE CONSULTANTS
SEAL AND SIGNATURES

DRAWINGS ISSUE
DATE DESCRIPTION DELTA

DATE	09.04.2022
DRAWN	NS
REVIEWED	HC
PROJECT NO.	BA1919001
SCALE	AS NOTED

SHEET TITLE
**PROPOSED
BUILDING
VIEWS**

SHEET NO.
A-3.2

GENERAL NOTES

- ALL GRADING SHALL CONFORM TO THE 2019 CALIFORNIA BUILDING CODE CHAPTERS 17, 18 AND APPENDIX-J AS AMENDED BY ORDINANCE 457.
- ALL PROPERTY CORNERS, GRADING BOUNDARIES AND ALL CONSERVATION AREAS / LEAST SENSITIVE AREA (LSA) DETERMINED BY THE ENVIRONMENTAL PROGRAMS DEPARTMENT (EPD) SHALL BE CLEARLY DELINEATED AND STAKED IN THE FIELD PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION / GRADING.
- ALL WORK UNDER THIS GRADING PERMIT SHALL BE LIMITED TO WORK WITHIN THE PROPERTY LINES. ALL WORK WITHIN THE ROAD RIGHT-OF-WAY WILL REQUIRE SEPARATE PLANS AND A SEPARATE REVIEW / APPROVAL (PERMIT) FROM THE TRANSPORTATION DEPARTMENT.
- ALL GRADING SHALL BE DONE UNDER A SUPERVISION OF A SOILS ENGINEER IN CONFORMANCE WITH THE RECOMMENDATIONS OF THE PRELIMINARY SOILS INVESTIGATION BY LA CRESTA DATED MARCH 21, 2016 AND SLOPE STABILITY INVESTIGATION BY LOC DATED AUGUST 19, 2016.
- COMPACTED FILL TO SUPPORT ANY STRUCTURES SHALL COMPLY WITH SECTION 1803.5.8. PROJECTS WITHOUT PRELIMINARY SOILS REPORT SHALL INCLUDE DETAILED SPECIFICATIONS IN ACCORDANCE WITH SECTIONS 1803.2 AND 1803.5 PREPARED BY THE ENGINEER OF RECORD.
- THE CONTRACTOR SHALL NOTIFY THE BUILDING AND SAFETY DEPARTMENT AT LEAST 24 HOURS IN ADVANCE TO REQUEST FINISH LOT GRADE AND DRAINAGE INSPECTION. THIS INSPECTION MUST BE APPROVED PRIOR TO BUILDING PERMIT FINAL INSPECTION OF EACH LOT.
- THE CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT TWO DAYS BEFORE DIGGING AT 1-800-422-4133.
- PRIOR TO GRADING, A MEETING SHALL BE SCHEDULED WITH A RIVERSIDE COUNTY ENVIRONMENTAL COMPLIANCE INSPECTOR PRIOR TO COMMENCEMENT OF GRADING OPERATIONS.

THESE PLANS ARE NOT VALID FOR LANDSCAPE IMPROVEMENTS, IRRIGATION SYSTEMS, ETC., SEE APPROVED LANDSCAPE PLANS FROM THE LANDSCAPE DIVISION

PRECISE GRADING PLAN

APN 0237-061-02
CITY OF FONTANA, CALIFORNIA

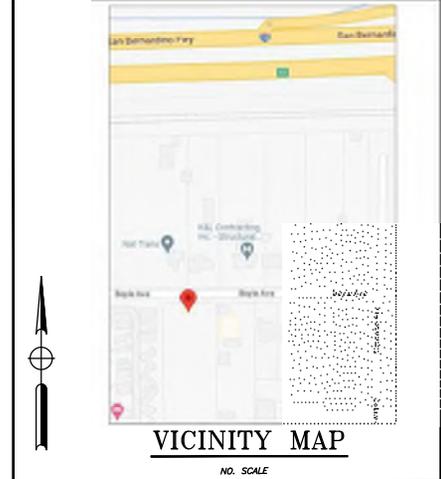
SITE ADDRESS
15817 BOYLE AVE.
FONTANA, CA.

CIVIL ENGINEER

RAHMAN ENGINEERING SERVICES, INC.
13611 12TH ST., UNIT B
CHINO, CA 91710
(213) 400-8078

SOILS ENGINEER

GEOTECHNICAL AND ENVIRONMENTAL
ENGINEERING CONSULTANTS, INC.
4071 E. LA PALMA AVE, STE B
MURFEE, CA 95007
714-632-3166



CUT/FILL

- MAXIMUM CUT AND FILL SLOPE = 2:1 (HORIZONTAL TO VERTICAL).
- NO FILL SHALL BE PLACED ON EXISTING GROUND UNTIL THE GROUND HAS BEEN CLEARED OF WEEDS, TOPSOIL AND OTHER DELETERIOUS MATERIAL. FILLS SHOULD BE PLACED IN THIN LIFTS (8-INCH MAX OR AS RECOMMENDED IN SOILS REPORT), COMPACTED AND TESTED AS GRADING PROCESS UNTIL FINAL GRADES ARE ATTAINED. ALL FILLS ON SLOPES STEEPER THAN 5 TO 1 (H/V) AND A HEIGHT GREATER THAN 5 FEET SHALL BE KEPT AND BENCHED INTO FIRM NATURAL SOIL FOR FULL SUPPORT. THE BENCH UNDER THE TOE MUST BE 10 FEET WIDE MIN.
- THE SLOPE STABILITY FOR CUT AND FILL SLOPES OVER 30' IN VERTICAL HEIGHT, OR CUT SLOPES STEEPER THAN 2:1 HAVE BEEN VERIFIED WITH A FACTOR OF SAFETY OF AT LEAST 1.5.
- NO ROCK OR SIMILAR IRREDUCIBLE MATERIAL WITH A MAXIMUM DIMENSION GREATER THAN 12 INCHES SHALL BE BURIED OR PLACED IN FILLS CLOSER THAN 10 FEET TO THE FINISHED GRADE.

DRAINAGE and EROSION/DUST CONTROL

- DRAINAGE ACROSS THE PROPERTY LINE SHALL NOT EXCEED THAT WHICH EXISTED PRIOR TO GRADING. EXCESS OR CONCENTRATED DRAINAGE SHALL BE CONTAINED ON SITE OR DIRECTED TO AN APPROVED DRAINAGE FACILITY. EROSION OF THE GROUND IN THE AREA OF DISCHARGE SHALL BE PREVENTED BY INSTALLATION OF NON-EROSIVE DOWN DRAINS OR OTHER DEVICES.
- PROVIDE A PAVED SLOPE INTERCEPTOR DRAIN ALONG THE TOP OF CUT SLOPES WHERE THE DRAINAGE PATH IS GREATER THAN 40 FEET TOWARDS THE CUT SLOPE.
- PROVIDE 5' WIDE BY 11" HIGH BERM ALONG THE TOP OF ALL FILL SLOPES STEEPER THAN 3:1 (HORIZONTAL TO VERTICAL).
- THE GROUND SURFACE IMMEDIATELY ADJACENT TO THE BUILDING FOUNDATION SHALL BE SLOPED AWAY FROM THE BUILDING AT A SLOPE OF NOT LESS THAN ONE UNIT VERTICAL IN 20 UNITS HORIZONTAL (5% SLOPE) FOR A MIN. DISTANCE OF 10 FEET MEASURED PERPENDICULAR TO THE FACE OF THE FOUNDATION.
- NO OBSTRUCTION OF NATURAL WATER COURSES SHALL BE PERMITTED.
- DURING ROUGH GRADING OPERATIONS AND PRIOR TO CONSTRUCTION OF PERMANENT DRAINAGE STRUCTURES, TEMPORARY DRAINAGE CONTROL (BEST MANAGEMENT PRACTICES, BMP'S) SHALL BE PROVIDED TO PREVENT PONDING WATER AND DAMAGE TO ADJACENT PROPERTIES.
- DUST SHALL BE CONTROLLED BY WATERING OR OTHER APPROVED METHODS.
- FUGITIVE DUST CONTROL: CONSTRUCTION SITES SUBJECT TO PM10 FUGITIVE DUST VIOLATION SHALL COMPLY WITH AQMD CHAPTER 4.03.1.
- STORM WATER SHALL NOT BE DRAINED INTO SEWERS INTENDED FOR SANITARY DRAINAGE ONLY.
- ALL INLETS AND OUTLETS INTO AND OUT OF THE MANHOLES SHALL INCORPORATE THE USE OF A FLEXIBLE COMPRESSION JOINTS LOCATED BETWEEN 12" AND 36" FROM THE MANHOLE NO FLEXIBLE COMPRESSION JOINT SHALL BE EMBEDDED IN THE MANHOLE BASE.
- THE TWO-WAY CLEANOUT MUST BE AN APPROVED TYPE AS DEFINED IN THE OPC SECTION 203.0 & PER SECTION 707.4 EXCTION (4)

- ALL EXISTING DRAINAGE COURSES AND STORM DRAIN FACILITIES SHALL CONTINUE TO FUNCTION. PROTECTIVE MEASURES AND TEMPORARY DRAINAGE PROVISIONS SHALL BE PROVIDED TO PROTECT ADJOINING PROPERTIES DURING GRADING OPERATIONS.
- FOR ALL SLOPES STEEPER THAN 4 TO 1 (H/V); FOR ALL SLOPES EQUAL TO OR GREATER THAN 3:1 IN VERTICAL HEIGHT, ARE REQUIRED TO BE PLANTED WITH AN APPROVED DROUGHT TOLERANT GROUND COVER AT A MINIMUM SPACING AT A MINIMUM SPACING OF 12" ON CENTER OR AS APPROVED BY THE ENGINEER OF RECORD OR THE REGISTERED LANDSCAPE ARCHITECT AND DROUGHT TOLERANT SHRUBS SPACED AT NO MORE THAN 10' ON CENTER. SLOPES EXCEEDING 15' IN VERTICAL HEIGHT SHALL BE PLANTED WITH APPROVED SHRUBS NOT TO EXCEED 10' ON CENTER, OR TREES SPACED NOT TO EXCEED 20' ON CENTER OR SHRUBS NOT TO EXCEED 10' OR A COMBINATION OF SHRUBS AND TREES NOT TO EXCEED 15' IN ADDITION TO THE GRASS OR GROUND COVER. SLOPES THAT REQUIRE PLANTING SHALL BE PROVIDED WITH AN IN-GROUND IRRIGATION SYSTEM EQUIPPED WITH AN APPROPRIATE BACKFLOW DEVICE PER C.P.C., CHAPTER 6. THE SLOPE PLANTING AND IRRIGATION SYSTEM SHALL BE INSTALLED AS SOON AS POSSIBLE UPON COMPLETION OF ROUGH GRADING. ALL PERMANENT SOILS SHALL BE ESTABLISHED AND IN GOOD CONDITION PRIOR TO SCHEDULING PRECISE GRADE INSPECTION.

COMPLETION OF WORK

- ROUGH GRADE**
- A REGISTERED CIVIL ENGINEER SHALL PREPARE FINAL COMPACTION REPORT/GRADING REPORT AND IT SHALL BE SUBMITTED FOR REVIEW AND APPROVAL. THE REPORT SHALL ALSO PROVIDE BUILDING FOUNDATION DESIGN PARAMETERS INCLUDING ALLOWABLE SOIL PRESSURES, EXPANSION INDEX AND REMEDIAL MEASURES IF EIP-20, WATER SOLUBLE SULFATE CONTENT, CORROSIIVITY AND REMEDIAL MEASURES IF NECESSARY.
 - EXCEPT FOR NON-TRACT SINGLE RESIDENTIAL LOT GRADING, THE COMPACTION REPORT SHALL INCLUDE THE SPECIAL INSPECTION VERIFICATION LISTED IN TABLE 1705.6 OF 2013 CBC.
 - THE COUNTY OF SAN BERNARDINO REQUIRES A LICENSED PROFESSIONAL ENGINEER TO SUBMIT A WET SIGNED AND STAMPED ROUGH GRADING CERTIFICATION WHICH INCLUDES PAD CERTIFICATION PRIOR TO REQUESTING INSPECTION AND ISSUANCE OF THE BUILDING PERMIT.
 - ROUGH GRADE ONLY PERMITS: IN ADDITION ON OBTAINING ALL REQUIRED INSPECTIONS AND APPROVAL OF ALL FINAL REPORTS, ALL SITES PERMITTED FOR ROUGH GRADE ONLY SHALL PROVIDE VEGETATIVE COVERAGE (100 PERCENT) OR OTHER MEANS OF SITE STABILIZATION APPROVED BY ENVIRONMENTAL COMPLIANCE DIVISION, PRIOR TO RECEIVING A ROUGH GRADE PERMIT FINAL.
- PRECISE GRADE**
- A REGISTERED CIVIL ENGINEER SHALL SUBMIT TO THE BUILDING AND SAFETY DEPARTMENT WRITTEN FINAL CERTIFICATION OF COMPLETION OF GRADING IN ACCORDANCE WITH THE APPROVED GRADING PLAN PRIOR TO REQUEST OF PRECISE GRADING INSPECTION.

NPDES: WHEN ONE ACRE OR MORE IS BEING DISTURBED:

CONSTRUCTION SITE BEST MANAGEMENT PRACTICES (BMP'S) FOR THE MANAGEMENT OF STORM WATER AND NON-STORM WATER DISCHARGES SHALL BE DOCUMENTED ON THE GRADING PLAN. ARRANGEMENTS SHALL BE MADE BY THE DEVELOPER TO RETAIN THE SWPPP ON THE JOBSITE THROUGHOUT THE TIME OF CONSTRUCTION. THE IMPLEMENTATION AND MAINTENANCE OF SITE BMP'S IS REQUIRED TO MINIMIZE JOBSITE EROSION AND SEDIMENTATION. ARRANGEMENTS SHALL BE MADE BY THE DEVELOPER TO MAINTAIN THOSE BMP'S THROUGHOUT THE TIME OF CONSTRUCTION.

NOTE:

- GRADING PLAN SHALL COMPLY WITH THE LATEST ADOPTED EDITION OF THE FOLLOWING CODES:
- 2022 CALIFORNIA BUILDING CODE AND ITS APPENDICES AND STANDARDS.
 - 2022 CALIFORNIA PLUMBING CODE AND ITS APPENDICES AND STANDARDS.
 - 2022 CALIFORNIA GREEN STANDARDS CODE AND ITS APPENDICES AND STANDARDS.
 - CITY OF FONTANA ORDINANCES AND REGULATIONS.

SCOPE OF WORK:

NEW CONSTRUCTION OF OFFICE/SHOP, WORKSHOP BAYS (02), FRONT BOUNDARY WALL, GATE, LANDSCAPE AND PARKING AREA

UTILITIES

SEWER: N/A
WATER: FONTANA WATER COMPANY, PH: 877-274-8419
ELECTRIC: SOUTHERN CALIFORNIA EDISON, PH: 909-357-6221
CABLE: TIME WARNER CABLE, PH: 909-390-4738
TELEPHONE: AT&T, PH: 714-666-7415
GAS: SOCAL GAS, PH: 909-428-8411

EARTHWORK QUANTITIES

RAW CUT-40 C.Y.
RAW FILL-750 C.Y.

QUANTITIES ARE ESTIMATES ONLY AND CONTRACTOR IS TO VERIFY QUANTITIES PRIOR TO CONSTRUCTION

AREA OF DISTURBANCE

TOTAL AREA = 1.07 AC
DISTURBED AREA: (43,126 S.F.) (0.99) AC
TOTAL IMPERVIOUS AREA: 37,527 S.F. (0.86 AC)

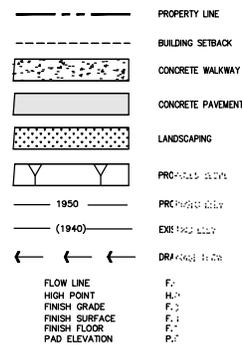
CONSTRUCTION NOTES

- CONSTRUCT 6" CURB FOR CITY OF FONTANA STD. DWG. NO. 1000
- CONSTRUCT 4" SLOPE SIDEWALK. DWG. NO. 1006
- PUMP AT WHITE SINGLE LINE PARKING STRIPES
- CONSTRUCT GRADING PER CITY OF FONTANA STD. DWG. NO. 1001
- INSTALL IMPACT ENLIGHTENMENT PER ARCHITECTURAL PLANS
- CONSTRUCT ADA RAMP
- PAINT PAVEMENT ADA MARKING SYMBOL SIGNS
- PAINT PAVEMENT ADA BLUE CROSS HATCH
- INSTALL ADA "HANDICAPPED" PARKING SIGN
- CONSTRUCT 24" X 24" CATCH BASIN
- INSTALL 12" PVC PIPE @ .60% MIN. SLOPE
- CONSTRUCT ASPHALT CONCRETE PAVEMENT PER SOILS RECOMMENDATION
- CONSTRUCT 1.0' WIDE CURB OPENING PER DETAIL ON SHEET 2
- 750 GALLON SEPTIC TANK WITH LEACH LINES

QUANTITY

1000 LF	1150 SF	12 EA	850 LF	32500 SF	1 EA
---------	---------	-------	--------	----------	------

LEGEND



PARKING SUMMARY

STANDARD CAR PARKING	HANDICAPPED PARKING	TRUCK PARKING	LOADING ZONE PARKING	BICYCLE PARKING	REQUIRED	PROPOSED
3	1	9	1	2	3	10

SHEET INDEX:

SHEET NO.	TITLE
1	PRECISE GRADING PLAN AND SECTIONS
2	CONSTRUCTION CONTROL PLAN

Description:
PERMIT FOR 40,336 SF OF ROUGH GRADING AND PRECISE GRADING FOR NEW CONSTRUCTION OF OFFICE/SHOP

GRADE-25-00025

Underground Service Alert

Call: TOLL FREE 811

www.call811.com

NO WORKING DAYS BEFORE YOU DIG

CITY OF FONTANA

ENGINEERING DEPARTMENT
8353 SIERRA AVE.
FONTANA, CA 92335
TEL: (909) 350-7600

BENCH MARK:

PLANS PREPARED BY
RAHMAN ENGINEERING SERVICES, INC.
13611 12TH ST., UNIT B
CHINO, CA 91710
(213) 400-8078

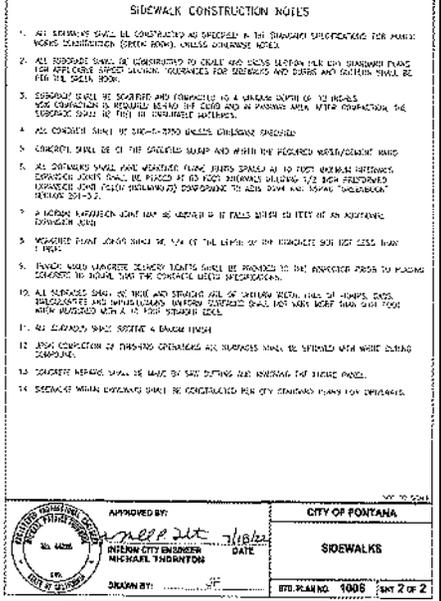
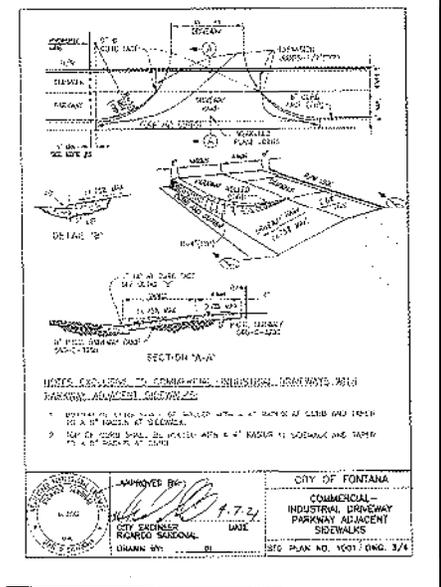
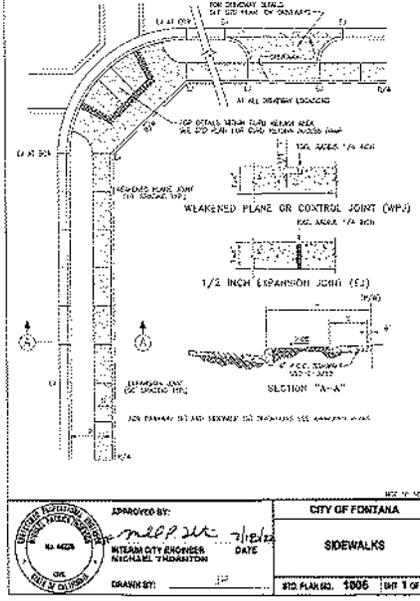
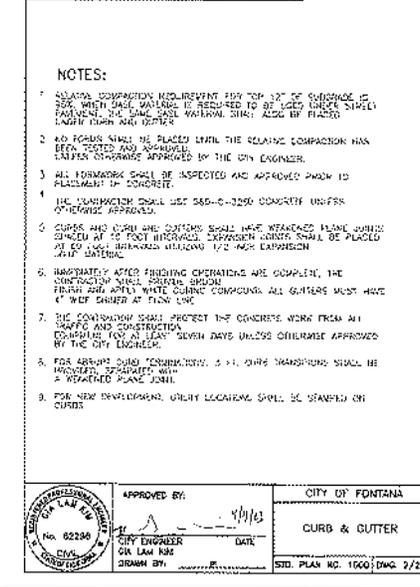
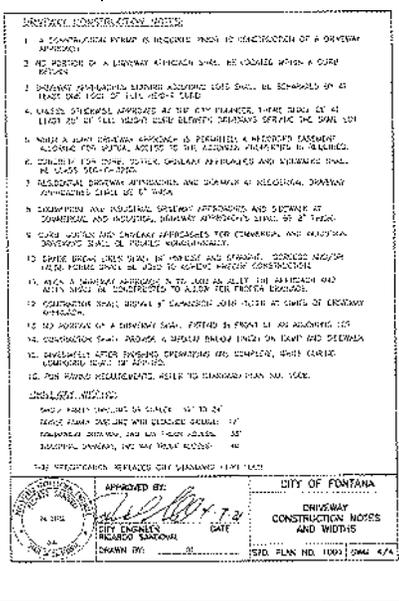
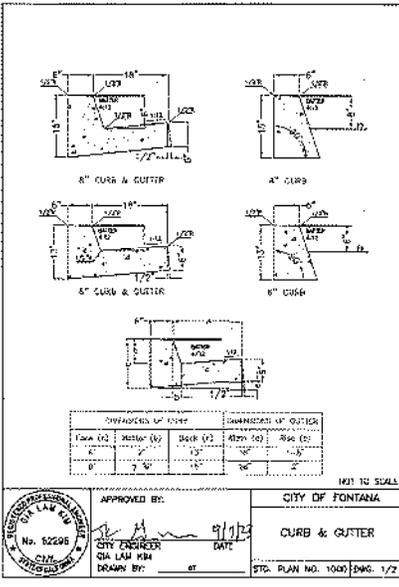
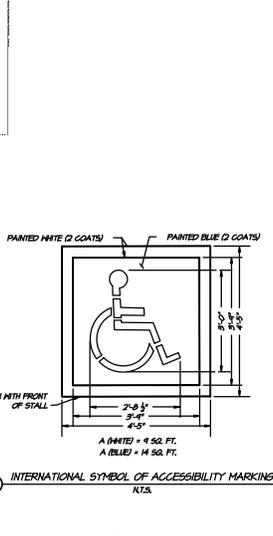
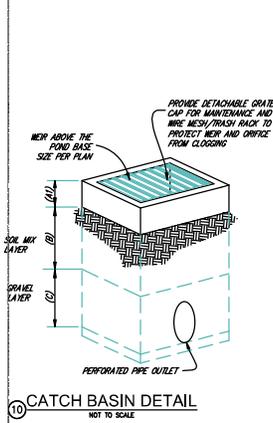
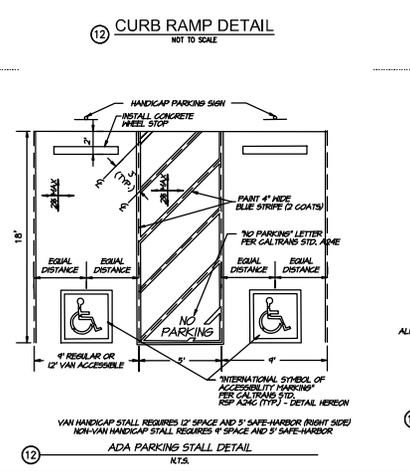
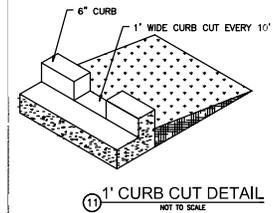
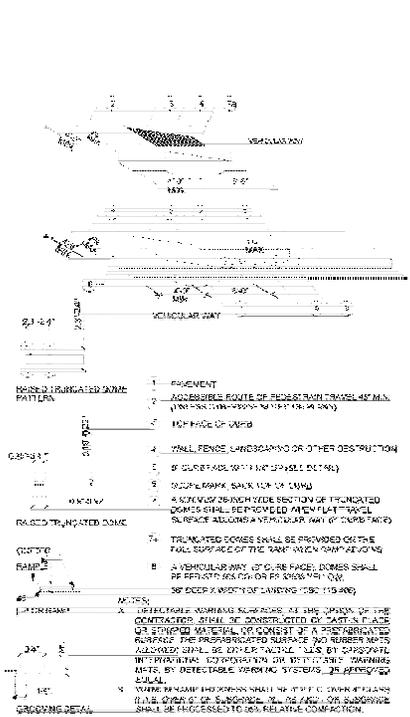


REVISIONS		
NO.	DATE	DESCRIPTION

TITLE SHEET

TRUCK REPAIR SHOP
15817 BOYLE AVE.
FONTANA, CA 92337

W.D. No.	
CIP No.	
PROJECT No.	
SHEET 1 OF 7	



CITY OF FONTANA
ENGINEERING DEPARTMENT
8353 SIERRA AVE
FONTANA, CA 92335
TEL: (909) 350-7800

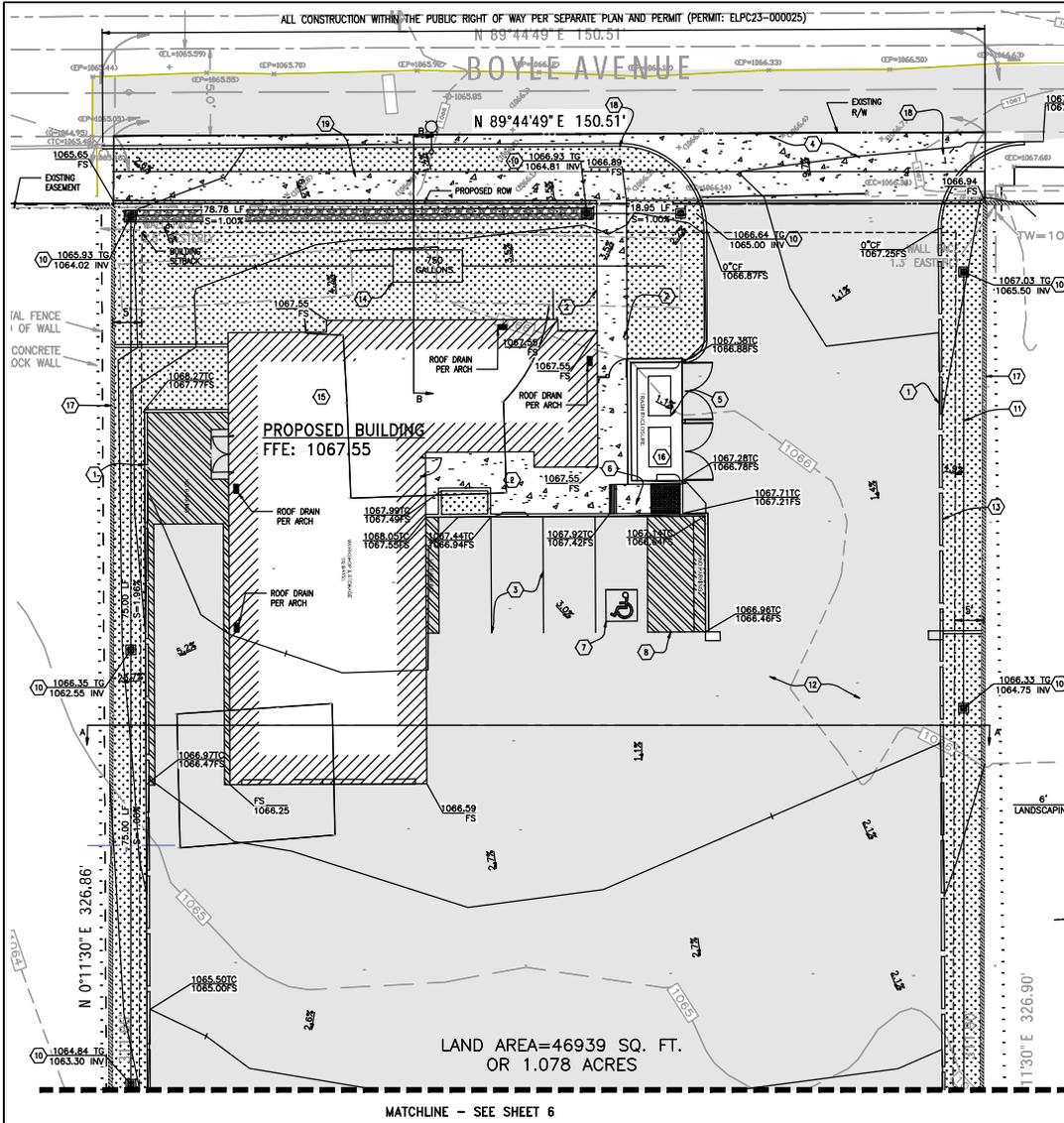
BENCH MARK:
PLANS PREPARED BY:
RAHMAN ENGINEERING SERVICES, INC
13811 12TH ST., UNIT B
CHINO, CA 91710
(913) 400-8078

MOKSUDUR RAHMAN RCE 089263 DATE

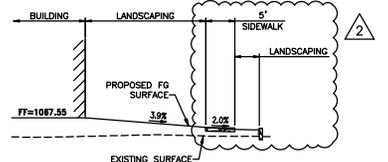
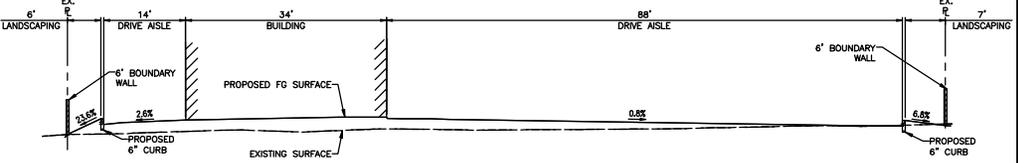
NO.	REVISIONS	DATE

REVISIONS

DETAILS
TRUCK REPAIR SHOP
15817 BOYLE AVE.
FONTANA, CA 92337



- ### CONSTRUCTION NOTES
- 1 CONSTRUCT 6" CURB PER CITY OF FONTANA STD. DWG. NO. 1000
 - 2 CONSTRUCT 4" THICK, PCC SIDEWALK. DWG. NO. 1006
 - 3 PAINT 4" WHITE DOUBLE LINE PARKING STRIPES
 - 4 CONSTRUCT DRIVEWAY PER CITY OF FONTANA STD. DWG. NO. 1001 PER SEPARATE PLAN AND PERMIT
 - 5 INSTALL TRASH ENCLOSURE PER ARCHITECTURAL PLANS
 - 6 CONSTRUCT ADA RAMP
 - 7 PAINT PAVEMENT ADA MARKING SYMBOL SIGNS
 - 8 PAINT PAVEMENT ADA BLUE CROSS HATCH
 - 9 INSTALL ADA "HANDICAPPED" PARKING SIGN
 - 10 CONSTRUCT 24" X 24" CATCH BASIN PER DETAIL ON SHEET 2
 - 11 INSTALL 12" PVC PIPE @ .60% MIN. SLOPE
 - 12 CONSTRUCT ASPHALT CONCRETE PAVEMENT PER SOILS RECOMMENDATION
 - 13 CONSTRUCT 1.0' WIDE CURB OPENING PER DETAIL ON SHEET 2
 - 14 750 GALLON SEPTIC TANK WITH LEACH LINES
 - 15 PROPOSED BUILDING PER SEPARATE PERMIT
 - 16 TRASH ENCLOSURE PER SEPARATE PERMIT
 - 17 EXISTING BOUNDARY WALL, MODIFICATIONS PER SEPARATE PERMIT
 - 18 CONSTRUCT 8" CURB PER CITY OF FONTANA STD. DWG. NO. 1000 PER SEPARATE PLAN AND PERMIT
 - 19 CONSTRUCT 4" THICK, PCC SIDEWALK, DWG. NO. 1006 PER SEPARATE PLAN AND PERMIT



A PRECISE GRADING PLAN
SCALE: 1" = 10'

CITY OF FONTANA
ENGINEERING DEPARTMENT
8353 SIERRA AVE
FONTANA, CA 92335
TEL: (909) 350-7600

BENCH MARK:

PLANS PREPARED BY:
RAHMAN ENGINEERING SERVICES, INC
13611 12TH ST., UNIT B
CHINO, CA 91710
(213) 400-8078



REVISIONS	
NO.	DATE

PRECISE GRADING PLAN

TRUCK REPAIR SHOP
15817 BOYLE AVE.
FONTANA, CA 92337

W.D. No.
CIP No.
PROJECT No.
SHEET 5 OF 7

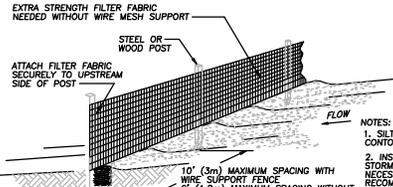
C:\Bentley\Projects\Management\Bentley\2025\Fontana\250021\CUP25-0021\ASP25-0031\Drawings\250021-0031-005.dwg #1/25/24 10:53 AM

EROSION CONTROL NOTES:

- EQUIPMENT AND WORKERS FOR EMERGENCY WORK SHALL BE MADE AVAILABLE AT ALL TIMES DURING THE RAINY SEASON. NECESSARY MATERIALS SHALL BE AVAILABLE ON SITE AND STOCKPILED AT CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OF TEMPORARY DEVICES WHEN RAIN IS IMMINENT.
- DEVICES SHALL NOT BE MOVED OR MODIFIED WITHOUT THE APPROVAL OF THE ENGINEERING DEPARTMENT.
- ALL REMOVABLE PROTECTIVE DEVICES SHOWN SHALL BE IN PLACE AT THE END OF EACH WORKING DAY WHEN THE 5-DAY RAIN PROBABILITY FORECAST EXCEEDS 40%.
- AFTER A RAINSTORM, ALL SILT AND DEBRIS SHALL BE REMOVED FROM CHECK BERMS AND DESILTING BASINS, AND THE BASINS PUMPED DRY.
- GRADED AREAS AROUND THE TRACT PERIMETER MUST DRAIN AWAY FROM THE FACE OF SLOPE AT THE CONCLUSION OF EACH WORKING DAY.
- THE CONTRACTOR SHALL BE RESPONSIBLE AND SHALL TAKE NECESSARY PRECAUTIONS TO PREVENT PUBLIC TRESPASS ONTO AREAS WHERE IMPOUNDED WATER CREATES A HAZARDOUS CONDITION.
- GRAVEL BAG LAYOUT SHALL BE INSTALLED AS SHOWN PER PLAN OR AS DIRECTED BY THE CITY INSPECTOR.

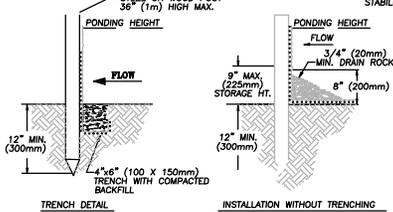
EROSION CONTROL CONSTRUCTION NOTES

- CONSTRUCT STABILIZED CONSTRUCTION ENTRANCE PER C.A.S.Q.A. BMP TC-1. SEE DETAIL "C" HEREOF
- CONSTRUCT SILT FENCE PER C.A.S.Q.A. BMP SE-1. SEE DETAIL "B" HEREOF
- STREET SWEEPING & VACUUMING PER C.A.S.Q.A. BMP SE-7
- CONSTRUCT STORM DRAIN INLET PROTECTION PER C.A.S.Q.A. BMP SE-10

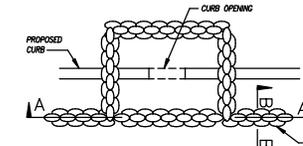


- NOTES:
- SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.
 - INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY. 9" (225mm) MAXIMUM RECOMMENDED STORAGE HEIGHT.
 - REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.

SILT FENCE (SE-1) 2
NOT TO SCALE

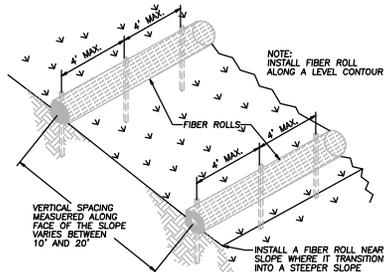


TRENCH DETAIL **INSTALLATION WITHOUT TRENCHING**

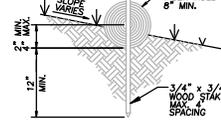


- NOTES:
- GRAVEL BAGS ARE ENCOURAGED OVER THE USE OF SANDBAGS AND MAY BE REQUIRED IN AREAS WHICH ARE PARTICULARLY SENSITIVE TO SEDIMENT DEPOSITION.
 - PLACE EROSION BAGS TO COVER TOP OF AREA LEAVING IF RAIN IS EXPECTED PRIOR TO THE LANDSCAPE INSTALLATION.

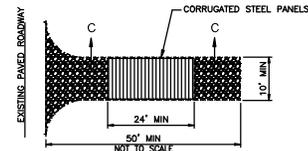
INLET PROTECTION (SE-10) 4
NOT TO SCALE



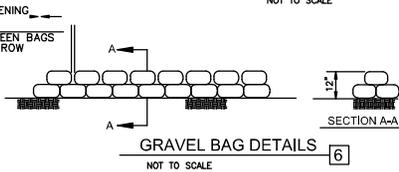
TYPICAL FIBER ROLL INSTALLATION N.T.S.



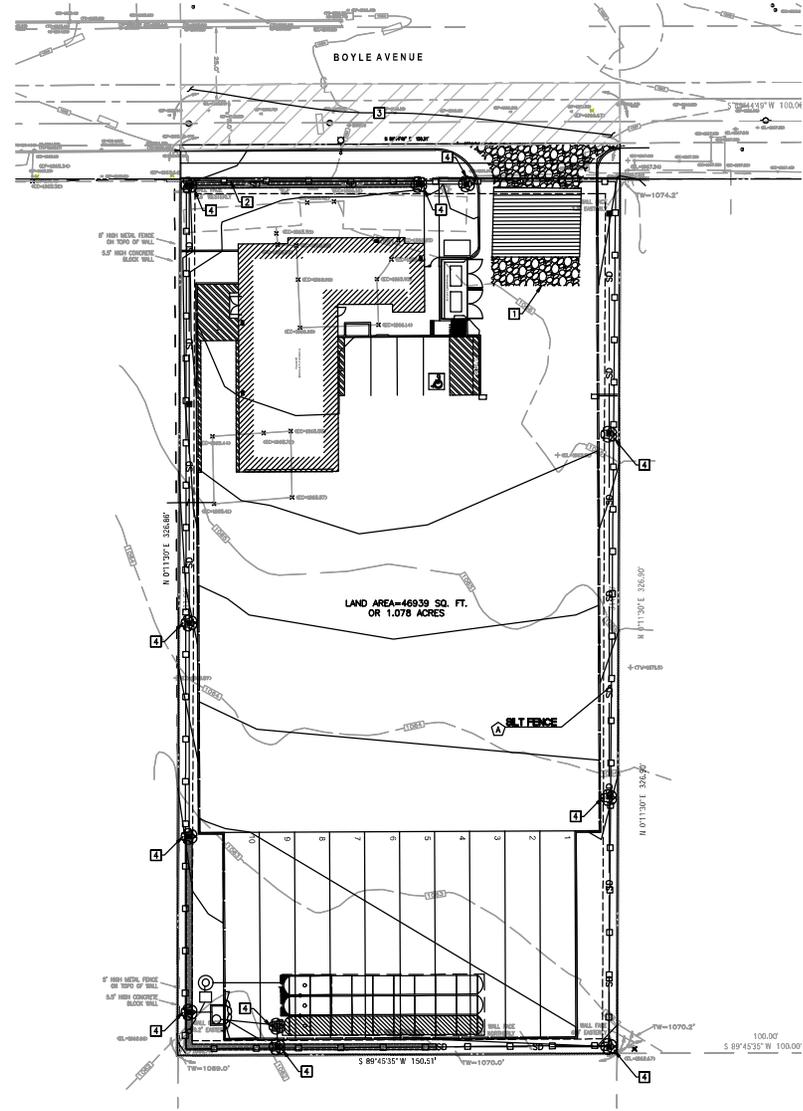
FIBER ROLL DETAIL 5
NOT TO SCALE



STABILIZED CONSTRUCTION ENTRANCE/EXIT DETAIL (TC-1) 1
NOT TO SCALE



GRAVEL BAG DETAILS 6
NOT TO SCALE



EROSION CONTROL PLAN
SCALE: 1" = 20'

CITY OF FONTANA

ENGINEERING DEPARTMENT
8353 SIERRA AVE
FONTANA, CA 92335
TEL: (909) 350-7800

BENCH MARK:

PLANS PREPARED BY:
RAHMAN ENGINEERING SERVICES, INC
13611 12TH ST., UNIT B
CHINO, CA 91710
(213) 400-8078



MOKSUDUR RAHMAN RCE C08263 DATE

REVISIONS

NO.	DESCRIPTION	DATE

EROSION CONTROL PLAN

TRUCK REPAIR SHOP
15817 BOYLE AVE.
FONTANA, CA 92337

W.D. No.
CIP No.
PROJECT No.
SHEET Z OF 7

C:\Brower\mxd\Projects\Management\BCH-Brower\2025\250021\Fontana-Asphalt\Asphalt\Asphalt.dwg, 1/23/25, 9:48 AM

LANDSCAPE DRAWINGS

PROPOSED TRUCK TIRE REPAIR SHOP

APN: 0237-061-02



CONSULTANT
ICON ATELIER INC.
 TEL: (714) 881-0825
 icona@yaho.com

COPYRIGHT RESERVED
 OWNERSHIP, COPYRIGHTS AND USE OF DRAWINGS, DOCUMENTS, SPECIFICATIONS AND COPIES THEREOF FURNISHED BY ICON ATELIER INC ARE AND SHALL REMAIN ITS PROPERTY. THEY ARE TO BE USED ONLY WITH RESPECT TO THE PROJECT, FEDERAL LAW PROHIBITS THE REPRODUCTION, DISPLAY, SALE OR OTHER DISPOSITION OF THIS DOCUMENT WITHOUT THE EXPRESS WRITTEN CONSENT OF ICON ATELIER INC. ALL RIGHTS RESERVED.

CLIENT
B&K ROAD SERVICE
 15480 JACKSON DRIVE,
 FONTANA, CA 92336

PROJECT
PROPOSED TRUCK TIRE REPAIR SHOP
 15511 DRYLEY AVENUE,
 FONTANA, CA 92337

SEAL AND STAMP



ASSOCIATE CONSULTANTS

DEPARTMENT OF SPACE

SITE DESIGN STUDIO
 1000 CALIFORNIA WAY
 SUITE 100
 FONTANA, CA 92335

DRAWINGS ISSUE
 DATE: 08.24.23
 DESCRIPTION: DELTA SUBMITTAL

DATE: 08.24.2023
 DRAWN: BFM
 REVIEWED: BFM
 PROJECT NO: 1A/0121/001
 SCALE: AS SHOWN

SHEET TITLE
TITLE SHEET

SHEET NO.
L - 0,0

PROJECT INFORMATION		VICINITY MAP	DRAWINGS INDEX	
OWNER:	B&K ROAD SERVICE 15480 JACKSON DRIVE, FONTANA, CA 92336 TEL: 1099780-8809		SHEET #	SHEET NAME
HOURS OF OPERATION:	TWO TO TEN - SEVEN DAYS A WEEK		L - 0,0	TITLE SHEET
ZONING:	FREeway INDUSTRIAL DISTRICT WITHIN SOUTHWEST INDUSTRIAL PLAN	L - 0,1	SOIL MANAGEMENT PLAN	
BUILDING STORED:	ONE	L - 1,0	IRRIGATION PLAN	
TYPE:	WH	L - 3,1	IRRIGATION DETAILS AND CALCULATIONS	
OCCUPANCY:	B	L - 3,2	IRRIGATION DETAILS AND RUN TIMES	
BUILDING SPRINKLED:	YES	L - 1,3	IRRIGATION SPECIFICATIONS	
SCOPE OF WORK:	NEW CONSTRUCTION OF OFFICE / SHOP, WORKSHOP BAYS (01), FRONT BOUNDARY WALL, GATE, LANDSCAPE AND PARKING AREA	L - 1,4	IRRIGATION SPECIFICATIONS	
APN:	0237-061-02	L - 2,0	PLANTING PLAN	
		L - 2,1	PLANTING DETAILS	
		CONTACT DIRECTORY		
		OWNER	B&K ROAD SERVICE 15480 JACKSON DRIVE, FONTANA, CA 92336	
		CONTACT	MARTIN GUNN (562) 260-1856 martin.gunn@bkr.com	
		CONSULTANTS	ICON ATELIER, INC. 15480 JACKSON DRIVE, FONTANA, CA 92336 (714) 881-0825 icona@yaho.com	
		OWNER'S REPRESENTATIVE	GEOFFREY J. SOKOL FENCLER ASSOCIATES (714) 655-3166	
		CIVIL ENGINEER	BARBARA ENGINEERING SERVICES 15811 12TH STREET, UNIT B CHINO, CA 91710 (917) 698-8292	
		LANDSCAPE ARCHITECT	DEPARTMENT OF SPACE, INC. 480 NORTH INDIAN HILL, SUITE 20 CLARKSBURG, CA 91711 (917) 550-1150	

STANDARD CITY LANDSCAPE NOTES

UNLESS CONTRACTED BY A SOIL TEST, COMPOST AT A RATE OF A MAXIMUM OF FOUR CUBIC YARDS PER ONE HUNDRED (100) SQUARE FEET OF PAVED SURFACE AREA SHALL BE INCORPORATED TO A DEPTH OF SIX INCHES INTO THE SOIL.

A MINIMUM THREE LAYER OF MULCH SHALL BE APPLIED ON ALL EXPOSED SOIL SURFACES OF PLANTING AREAS EXCEPT LAW, GRASSING OR ROOTING GROUNDCOVERS, OR DIRECT SEEDING APPLICATIONS WHERE MULCH IS CONTRACTED.

AT THE TIME OF FINAL INSPECTION, THE PERMIT APPLICANT MUST PROVIDE THE OWNER OF THE PROPERTY WITH A CERTIFICATE OF COMPLETION, CERTIFICATE OF INSTALLATION, IRRIGATION SCHEDULE AND SCHEDULE OF LANDSCAPE MAINTENANCE.

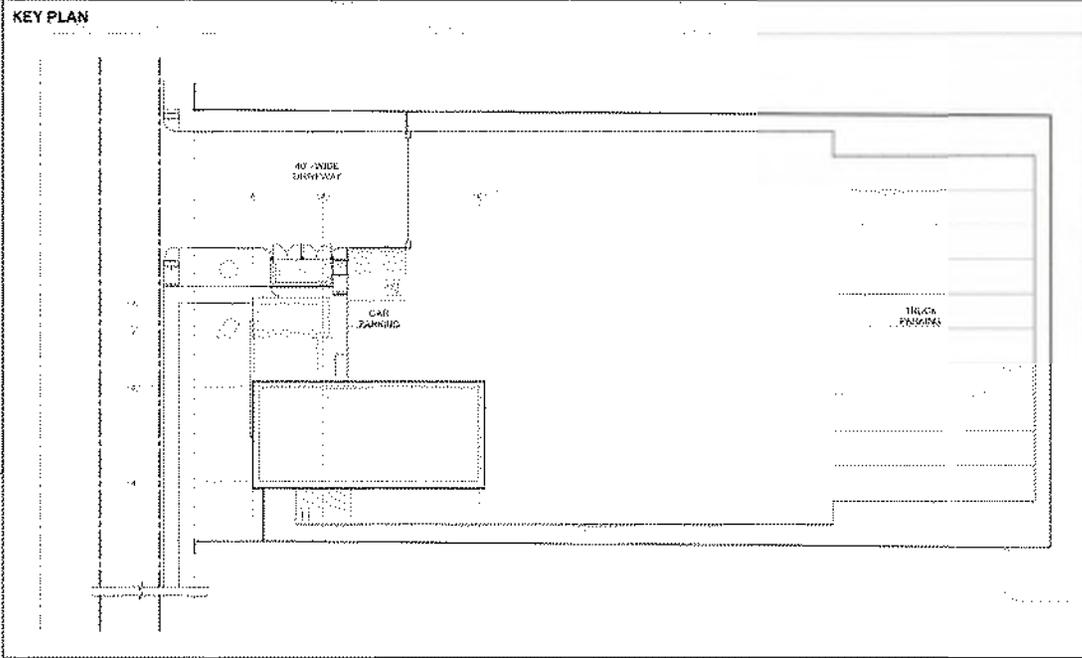
PRESSURE REGULATING DEVICES ARE REQUIRED IF WATER PRESSURE IS BELOW OR EXCEEDS THE RECOMMENDED PRESSURE OF THE SPECIFIED IRRIGATION DEVICES.

CHECK VALVES OR WATER SHUT-OFFS ARE REQUIRED ON ALL SPRINKLER HEADS WHERE LOW POINT LEAKAGE COULD OCCUR.

A DIAGRAM OF THE IRRIGATION PLAN SHOWING THE DEVICES, SHALL BE KEPT WITH THE SUBMISSION CONTINGENT FOR SUBSEQUENT MANAGEMENT PURPOSES. A CERTIFICATE OF COMPLETION SHALL BE FILED OUT AND CERTIFIED BY EITHER THE OWNER OF THE PROJECT OR PLANS, OR THE LICENSED LANDSCAPE CONTRACTOR FOR THE PROJECT.

NO CERTIFICATE OF OCCUPANCY SHALL BE ISSUED UNTIL THE CITY LANDSCAPE INSPECTOR HAS VERIFIED THAT ALL IRRIGATION DEVICES AND PLANTING HAVE BEEN COMPLETED IN ACCORDANCE WITH THE PROPOSED PLANS AND SPECIFICATIONS OF FCC SECTION 18-117 AT THE OF FINAL INSPECTION.

AN IRRIGATION AUDIT REPORT SHALL BE COMPLETED PER FCC SECTION 18-120 AT THE OF FINAL INSPECTION.



CONTACT DIRECTORY

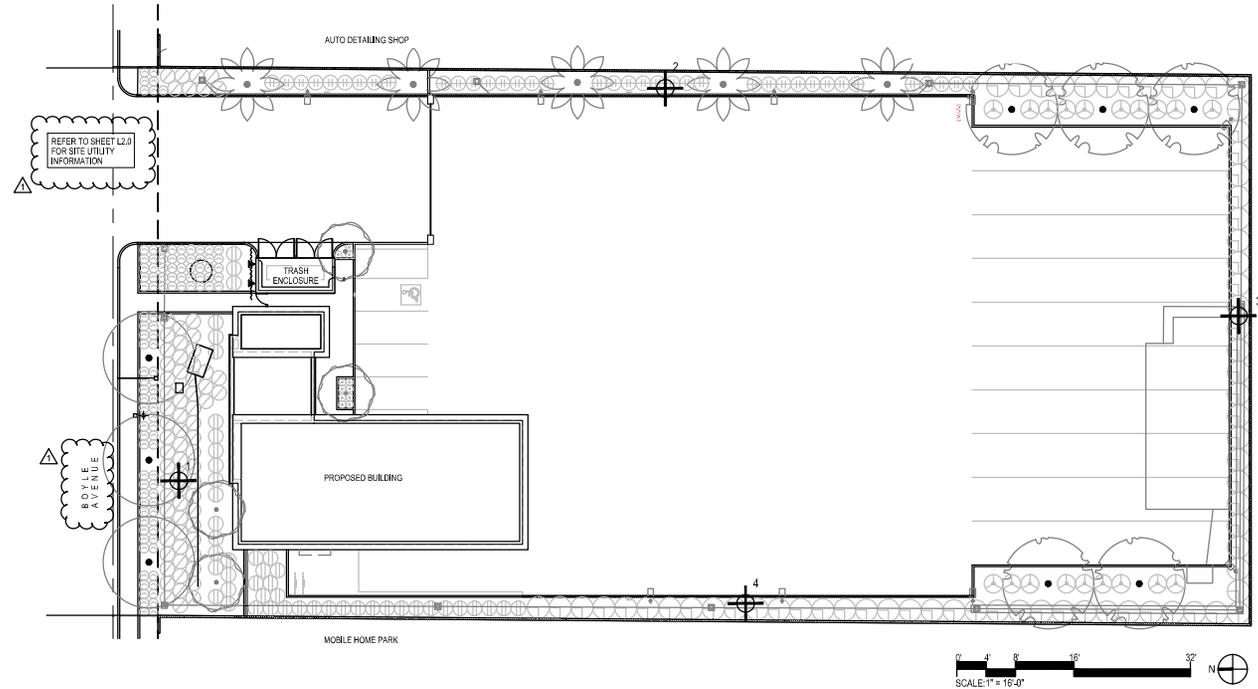
OWNER
 B&K ROAD SERVICE
 15480 JACKSON DRIVE,
 FONTANA, CA 92336
CONTACT: MARTIN GUNN
 (562) 260-1856
 martin.gunn@bkr.com

CONSULTANTS
 ICON ATELIER, INC.
 15480 JACKSON DRIVE,
 FONTANA, CA 92336
CONTACT: (714) 881-0825
 icona@yaho.com

OWNER'S REPRESENTATIVE
 GEOFFREY J. SOKOL
 FENCLER ASSOCIATES
 (714) 655-3166

CIVIL ENGINEER
 BARBARA ENGINEERING SERVICES
 15811 12TH STREET, UNIT B
 CHINO, CA 91710
 (917) 698-8292

LANDSCAPE ARCHITECT
 DEPARTMENT OF SPACE, INC.
 480 NORTH INDIAN HILL, SUITE 20
 CLARKSBURG, CA 91711
 (917) 550-1150



SOIL TESTING LEGEND		
SYMBOL	ITEM	DESCRIPTION
	SOIL TEST LOCATION	AFTER ROUGH GRADING HAS COMPLETED, TAKE SEPARATE SAMPLES AT 0'-12" DEPTH AND 12'-36" DEPTH, PACKAGE AND LABEL SEPARATELY FOR ANALYSIS. EACH SAMPLE TO BE DRY, LABELED IN A QUART SIZED ZIP LOCK BAG APPROXIMATELY HALF FULL. 4 LOCATIONS, 8 SAMPLES TOTAL.

SOIL TESTING NOTES

- SUBMIT SAMPLES TO:
WALLACE LABORATORIES
385 CORRAL CIRCLE
EL SEGUNDO, CA 90245
310-615-0116
www.wlabs.com
- ALL SOIL SAMPLE TESTS TO BE "SOIL MANAGEMENT REPORT" PER THE WALLACE LABS SOIL SUBMITTAL FORM:
<http://us.wlabs.com/wp-content/uploads/2016/12/2019soilform.pdf>
- AMENDED TOPSOIL AND SOIL IMPROVEMENT RECOMMENDATIONS PER SOILS REPORT. **THE FOLLOWING INSTRUCTIONS ARE FOR BID PURPOSES ONLY.**
 - Soil Conditioning and Amending**
Check the soil quality after demolition, soil harvesting and prior to soil preparation. Cross rip compacted soils 12 inches deep or use other suitable means to cultivate the soil, especially within planting areas, and to pulverize the clods in order to make workable soil. Reduce the size of the clods to less than 1/2-inch in diameter. Reduce the gravel content, if elevated, if planters have been kept low. Clean the planters and scarify the base soil in the planters to avoid a sharp soil interface.
SOIL PREPARATION ON A SQUARE FOOT BASIS
Uniformly broadcast the following materials to dry soil. The rates are per 1,000 square feet for a 6-inch fill. Remove clods, rocks, debris, foreign materials larger than 1/2 inch in diameter from the each 6-inch fill. Homogeneously incorporate the materials into the soil to a depth of six inches for each fill.
Triple superphosphate (0-45-0) – 3 pounds
Gypsum – 30 pounds
Organic amendment – about 4 cubic yards, sufficient for 5% to 6% soil organic matter on a dry weight basis
Cure the soil to activate the soil conditioner. Irrigate the soil to dampen the soil to a depth of six inches. The soil does not need to be saturated, just damp. Allow the soil to dry or at least dry to the point where the stringiness has disappeared. Then rewater the soil to a 6-inch depth.
 - Tree, Shrub and Vine Backfill**
Planting of container plants. Prepare planting pits twice as wide as the rootballs. Amending of planting pits is not needed for 1 gallon plants if the general soil preparation work has been completed. The wais and bottom of the planting pits should not have compacted soil. If necessary, loosen glazed soil by scarifying the soil surface.
On a volume basis, blend the following materials into clean, dry soil. Remove debris, clods, rocks and foreign material larger than 1/2 inch in diameter. Excessive gravel should not be present. Thoroughly mix topsoil and amendment in stockpiles on site. Rates are per cubic yard:
Triple superphosphate (0-45-0) – 14 pound
Gypsum – 1.5 pounds
Organic amendment – about 20% by volume, sufficient for 4% to 8% soil organic matter on a dry weight basis



COPYRIGHT RESERVED
OWNER/SHIP, COPYRIGHTS AND USE OF DRAWINGS, DOCUMENTS, SPECIFICATIONS AND COPIES THEREOF FURNISHED BY ICON ATELIER INC. ARE AND SHALL REMAIN ITS PROPERTY. THEY ARE TO BE USED ONLY WITH RESPECT TO THIS PROJECT. FEDERAL LAW PROHIBITS THE REPRODUCTION, DISPLAY, SALE OR OTHER DISPOSITION OF THIS DOCUMENT WITHOUT THE EXPRESS WRITTEN CONSENT OF ICON ATELIER INC. ALL RIGHTS RESERVED.

CLIENT
B&K ROAD SERVICE
15480 JACKSON DRIVE
FONTANA, CA 92336

PROJECT
PROPOSED TRUCK TIRE REPAIR SHOP
15511 BOYLE AVENUE
FONTANA, CA 92327



DRAWINGS ISSUE		
DATE	DESCRIPTION	DELTA
08.24.23	1ST PC RESPONSE	
	SUBMITTAL	

DATE:	08.24.2023
DRAWN:	BFM
REVIEWED:	BFM
PROJECT NO.:	1A/0121/001
SCALE:	AS SHOWN

SHEET TITLE
SOIL MANAGEMENT PLAN

SHEET NO.
L - 0,1



COPYRIGHT RESERVED
OWNER'S/CLIENT'S USE OF DRAWINGS, DOCUMENTS, SPECIFICATIONS AND COPIES THEREOF FURNISHED BY ICON ATTELIER INC. ARE AND SHALL REMAIN ITS PROPERTY. THESE ARE TO BE USED ONLY WITH RESPECT TO THE PROJECT, FEDERAL LAW PROHIBITS THE REPRODUCTION, COPY, SALE OR OTHER DISPOSITION OF THIS DOCUMENT WITHOUT THE EXPRESS WRITTEN CONSENT OF ICON ATTELIER INC. ALL RIGHTS RESERVED.

CLIENT
B&K ROAD SERVICE
15400 JACKSON DRIVE,
FONTANA, CA 92338

PROJECT
PROPOSED TRUCK TIRE REPAIR SHOP
15511 BOYLE AVENUE,
FONTANA, CA 92337



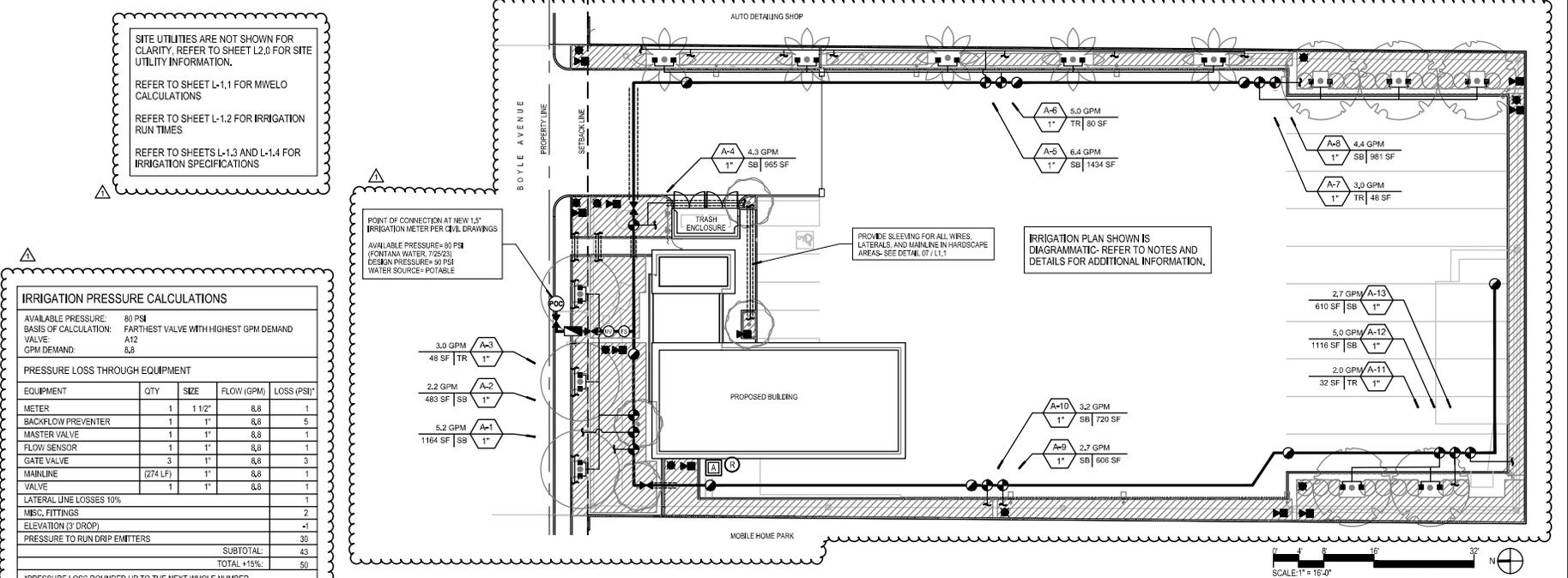
ASSOCIATE CONSULTANTS
DEPARTMENT OF SPACES
SITE DESIGN STUDIO
22000 CENTRAL EXP. SUITE 100
FONTANA, CA 92337

DRAWINGS ISSUE
DATE DESCRIPTION DELTA
08.24.23 1ST PC RESPONSE SUBMITTAL

DATE: 08.24.2023
DRAWN: BFM
REVIEWED: BFM
PROJECT NO: 1A/0121/001
SCALE: AS SHOWN

SHEET TITLE
IRRIGATION PLAN

SHEET NO.
L - 1.0



SITE UTILITIES ARE NOT SHOWN FOR CLARITY. REFER TO SHEET L2.0 FOR SITE UTILITY INFORMATION.
REFER TO SHEET L-1.1 FOR MWEO CALCULATIONS
REFER TO SHEET L-1.2 FOR IRRIGATION RUN TIMES
REFER TO SHEETS L-1.3 AND L-1.4 FOR IRRIGATION SPECIFICATIONS

POINT OF CONNECTION AT NEW 1.5" IRRIGATION METER PER CIVIL DRAWINGS
AVAILABLE PRESSURE=80 PSI
FONTANA WATER TREATMENT
DESIGN PRESSURE= 90 PSI
WATER SOURCE= POTABLE

IRRIGATION PLAN SHOWN IS DIAGRAMMATIC- REFER TO NOTES AND DETAILS FOR ADDITIONAL INFORMATION.

IRRIGATION PRESSURE CALCULATIONS

AVAILABLE PRESSURE: 80 PSI
BASIS OF CALCULATION: FARTHEST VALVE WITH HIGHEST GPM DEMAND
VALVE: A12
GPM DEMAND: 6.8

PRESSURE LOSS THROUGH EQUIPMENT

EQUIPMENT	QTY	SIZE	FLOW (GPM)	LOSS (PSI)
METER	1	1 1/2"	8.8	1
BACKFLOW PREVENTER	1	1"	8.8	5
MASTER VALVE	1	1"	8.8	1
FLOW SENSOR	1	1"	8.8	1
GATE VALVE	3	1"	8.8	3
MAINLINE (274 LF)		1"	8.8	1
VALVE	1	1"	8.8	1
LATERAL LINE LOSSES 10%				1
MISC. FITTINGS				2
ELEVATION (3' DROP)				-1
PRESSURE TO RUN DRIP EMITTERS				30
SUBTOTAL:				43
TOTAL +15%:				50

*PRESSURE LOSS ROUNDED UP TO THE NEXT WHOLE NUMBER

CERTIFICATE OF DESIGN
I AGREE TO COMPLY WITH THE REQUIREMENTS OF THE WATER EFFICIENT LANDSCAPE ORDINANCE AND SUBMIT A COMPLETE LANDSCAPE DOCUMENTATION PACKAGE. I HAVE COMPLIED WITH THE CRITERIA OF THE ORDINANCE AND APPLIED THEM ACCORDINGLY FOR THE EFFICIENT USE OF WATER IN THE LANDSCAPE PLANS.
BEN VALDEZ
CALIFORNIA PROFESSIONAL LANDSCAPE ARCHITECT
LICENSE NUMBER: 61562
08/15/2023
cert@spacelab.com
909-532-1402

- IRRIGATION NOTES**
- THE IRRIGATION DESIGN PRESENTED IN THESE DOCUMENTS IS INTENDED TO BE DIAGRAMMATIC. ALL IRRIGATION EQUIPMENT, PIPING AND VALVE LOCATIONS TO BE COORDINATED AND CONFIRMED ON FIELD.
 - THE IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARIZING THEMSELVES WITH ALL DIFFERENCES IN GRADE, LOCATION OF GRABS, LOCATION OF WALLS, CURBS, ETC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL IRRIGATION WORK WITH THE GENERAL CONTRACTOR, ELECTRICAL CONTRACTOR, AND ALL OTHER SUBCONTRACTORS FOR THE LOCATION AND THE INSTALLATION OF IRRIGATION.
 - THE IRRIGATION CONTRACTOR SHALL VERIFY WATER PRESSURE PRIOR TO CONSTRUCTION AND SUBMIT TO THE ARCHITECT AND OWNERS REPRESENTATIVE.
 - IF IT IS APPARENT TO THE LANDSCAPE CONTRACTOR IN THE FIELD THAT GRADE VARIATIONS, GRADE DIFFERENCES, OR DIFFERENCES IN THE CALCULATED AREA DIMENSIONS EXIST THAT MAY HAVE NOT BEEN CONSIDERED IN THE DESIGN OF THE SYSTEM, THE IRRIGATION CONTRACTOR SHALL NOT WILLFULLY INSTALL THE IRRIGATION SYSTEM AS INDICATED ON THE CONSTRUCTION DRAWINGS. THE OWNERS AUTHORIZED REPRESENTATIVE SHALL BE NOTIFIED IN WRITING OF ANY SUCH DISCREPANCIES OR DIFFERENCES PRIOR TO BEGINNING ANY IRRIGATION INSTALLATION. IF NOTIFICATION IS NOT RECEIVED PRIOR TO BEGINNING INSTALLATION, THE IRRIGATION CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ALL REVISIONS TO THE IRRIGATION SYSTEM AS DEEMED NECESSARY BY OWNERS REPRESENTATIVE AND ALL COSTS ASSOCIATED WITH THOSE REVISIONS.
 - THE IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING THE PRESSURE REGULATOR ON EACH ELECTRIC CONTROL VALVE SO THE IRRIGATION HEAD OR DRIPLINE LOCATION FARTHEST AND HIGHEST IN ELEVATION FROM ITS ASSOCIATED CONTROL VALVE FUNCTIONS WITHIN THE OPERATING PRESSURE SHOWN ON THE IRRIGATION LOG (NOT TO EXCEED 5 PSI ABOVE THE INDICATED OPERATING PRESSURE).
 - THE IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING THE FINAL CONNECTION BETWEEN THE POWER SOURCE AND THE AUTOMATIC CONTROLLER. 120 VOLT ELECTRICAL POWER SOURCE SHALL BE LOCATED BY THE GENERAL CONTRACTOR IN FIELD.
 - ADHESIVES, SEALANTS AND CAULKS SHALL MEET LOCAL OR REGIONAL AIR POLLUTION CONTROL OR SOUTH COAST AQMD RULE 1168 VOC AND STATEWIDE VOC STANDARDS.
 - MATERIALS LIST SUBMITTAL: PRIOR TO INSTALLATION OF PRODUCTS, SUBMIT A DETAILED LIST OF EACH MATERIAL PROPOSED FOR USE. PREPARE TYPEWRITTEN MATERIAL LIST USING THE FOLLOWING FORMAT:
ITEM NO. DESCRIPTION MANUFACTURER MODEL NO.
 - UPON COMPLETION OF PLANTING AND IRRIGATION, THE CONTRACTOR SHALL ARRANGE FOR A SUBSTANTIAL COMPLETION INSPECTION BY LANDSCAPE ARCHITECT. CONTRACTOR SHALL CORRECT ANY DISCREPANCIES FOUND PRIOR TO FINAL INSPECTION AND ACCEPTANCE OF THE PROJECT.
 - LANDSCAPE CONTRACTOR TO PROVIDE 30 DAY MAINTENANCE OF PLANTING AND IRRIGATION UPON FINAL ACCEPTANCE.
 - GUARANTEE: ALL IRRIGATION EQUIPMENT SHALL BE GUARANTEED FOR REPLACEMENT AFTER FINAL INSPECTION FOR ONE YEAR.
 - CONTROLLER CHARTS: LANDSCAPE CONTRACTOR WILL PROVIDE A LAMINATED CONTROLLER CHART FOR EACH NEW CONTROLLER SHOWING ALL STATIONS IT CONTROLS. CHART MAY BE A REPRODUCTION OF THE PROJECT RECORD DRAWING, IF THE SCALE PERMITS FITTING CONTROLLER DOORS. IF PHOTO REDUCTION PRINTS ARE REQUIRED, KEEP REDUCTION TO MAXIMUM SIZE POSSIBLE TO RETAIN FULL LEGIBILITY OF ALL LINEWORK AND TEXT. IDENTIFY AREAS OF COVERAGE OF EACH REMOTE CONTROL VALVE USING DISTINCT PASTEL COLOR TONES OVER THE APPLICABLE AREA. SUBMIT CHARTS FOR REVIEW BEFORE SUBSTANTIAL COMPLETION REVIEW.
 - IF THE INSTALLED IRRIGATION SYSTEM DIFFERS FROM THE DOCUMENTED DESIGN OF THESE DRAWINGS, THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR PROVIDING A CLEAR THOROUGH ELECTRONIC SET OF AS-BUILT DRAWINGS, INCLUDING SPECIFICATIONS OF ALL EQUIPMENT NOT MATCHING THESE DRAWINGS.
 - TURNOVER ITEMS: AS PART OF THE CONTRACT, THE CONTRACTOR SHALL SUPPLY THE FOLLOWING ITEMS FOR EACH PROPERTY:
TWO (2) KEYS FOR CONTROLLER, CONTROLLER ENCLOSURE.
180' OF DRIP LINE FOR EACH DRIP LINE INTERVAL AND DISCHARGE RATE
(8) BARBED COUPLINGS
(8) BARBED 90° ELBOW FITTINGS
(8) BARBED TEE FITTINGS
(6) WIRE ADAPTERS WITH 1/2" FPT
(1) LINE FLUSHING VALVE

HYDROZONE NOTE
ALL PLANT SPECIES SELECTED ARE RATED AS LOW WATER USE IN THE CITY OF FONTANA PER THE UC DAVIS WUCOLS DATABASE. ALL PLANTING AREAS FALL INTO THE SAME HYDROZONE BASED ON WATER USE.

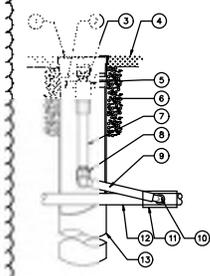
IRRIGATION LEGEND

SYMBOL	MANF.	MODEL NO.	BOX	BRAND	DESCRIPTION / NOTES	PSI	FLOW RATE	DETAIL
[Symbol]	RANBIRD	RWS-MB-1402			ROOT WATERING SYSTEM	30	0.50 GPM	01 / L-1.2
[Symbol]	NETAFIM	IRRIGATION DRIPLINE - TECHLINE CV DRIPLINE TLCOV 6-18			SPACE LATERAL ROWS AT 15'-18" DRIPPER SPACING AT 12" INSTALL ON GRADE UNDER MULCH	30	0.60 GPH	02 / L-1.2
[Symbol]	NETAFIM	AIR RELIEF VALVE-65ARA075	8" ROUND PVBSTD	ARV	INSTALL PER MANUFACTURERS SPECIFICATIONS			03 / L-1.2
[Symbol]	NETAFIM	MANUAL FLUSH VALVE-TLSOV	8" ROUND PVBSTD	MFV	INSTALL PER MANUFACTURERS SPECIFICATIONS			09 / L-1.2
[Symbol]	BUCKNER SUPERIOR	3000 NORMALLY CLOSED MASTER VALVE	STANDARD PVBSTD	MV	SIZE ACCORDINGLY PER LINE SIZE			02 / L-1.1
[Symbol]	HUNTER	FLOW-OK FLOW SENSOR	STANDARD PVBSTD	FS	METER MUST BE HARDWIRED TO THE CONTROLLER VIA SHIELDED MINIMUM 18 AWG WIRE. UP TO 1000' FROM THE CONTROLLER.			03 / L-1.1
[Symbol]	WATTS	71940T BACKFLOW PREVENTER			SIZE ACCORDINGLY PER LINE SIZE. PROVIDE SSB-COOR ENCLOSURE BY STRONG BOX. STANDARD COLOR DARK GREEN WITH POWDERCOATED FINISH OR APPROVED EQUAL.			04 / L-1.1
[Symbol]	NIBCO	T-133 BRONZE GATE VALVE	10" ROUND PVB10RND	GV	SIZE ACCORDINGLY PER LINE SIZE			05 / L-1.1
[Symbol]	RANBIRD	100 - EPB-CP WITH PRF-100-RBY	JUMBO PVB10RND	RCV AX	BRASS REMOTE CONTROL DRIP VALVE KIT WITH PRESSURE REGULATING BASKET FILTER			09 / L-1.1
[Symbol]	RANBIRD	44-RC - 1" QUICK COUPLER VALVE	10" ROUND PVB10RND	OCV	QUICK COUPLER VALVE WITH LOCKING RUBBER COVER. INSTALL IN ROUND VALVE BOX PER DETAIL.			12 / L-1.2
[Symbol]	HUNTER	WISS-SEN WIRELESS SOLAR SYNC RAIN SENSOR			VERIFY LOCATION IN FIELD			05 / L-1.2
[Symbol]	HUNTER	IC-400SS I-CORE IRRIGATION CONTROLLER WITH SS CABINET			VERIFY LOCATION IN HELD-WALL MOUNT IN SS ENCLOSURE. PROVIDE LINE VOLTAGE CONNECTION			06, 07 / L-1.1
[Symbol]		MAINLINE			IRRIGATION MAINLINE - 1" PVC SCH. 80			06, 07 / L-1.1
[Symbol]		LATERAL LINE			LATERAL PIPE - 1" PVC SCH. 40			06, 07 / L-1.1
[Symbol]		SLEEVING			SCHEDULE 40 PVC SLEEVES. SIZE TO BE 2X PIPE DIAMETER OR WIRE BUNDLE SIZE			08 / L-1.1

IRRIGATION VALVE CAYOUT
Station No. X-X GPM XX SF Plant Type Valve Size Area of Zone

PLANT MATERIAL ABBREVIATIONS
TF Turf
SB Shrub / Ground Cover
TR Trees
PT Pals
VG Vegetable Garden

ALL IRRIGATION BOXES BY RANBIRD, BOXES TO RECEIVE HEAT BRANDED LABEL INDICATING CONTENTS PER LEGEND.

<p>IRRIGATION CONTROLLER SCHEDULE</p> <p>DATE: 08/20/23 PROJECT: Proposed Truck Tire Repair Shop PROJECT CITY: Fontana, CA CLIENT: MARIANO, INC. PREPARED BY: MARIANO, INC.</p> <p>IRRIGATION ZONE: South West Area LAYOUT: 0101 REVISION HISTORY: REVISION NO. DATE BY: 1. ESTIMATED WATER USE DOES NOT EXCEED CALCULATED WATER VALUE FOR THIS PROJECT.</p> <p>ESTABLISHMENT</p> <p>NOTE: THIS SCHEDULE IS PROVIDED AS A STARTING POINT ONLY. THE CONTRACTOR SHALL ADJUST RUN TIMES FOR ACTUAL SITE CONDITIONS, SOIL CONDITIONS AND REQUIRE SLOPE MULTIFIERS FOR ACTUAL SITE CONDITIONS. SLOPE CONDITIONS MAY REQUIRE SLOPE MULTIFIERS TO ACCOMMODATE SLOPE AND RUNTIME VALUES. CONTRACTOR SHALL ADJUST RUN TIMES TO ALLOW FOR SOIL INFILTRATION RATES TO SUBSTRATE RUNTIME.</p> <p>SCHEDULING DATA</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>STATION</th> <th>AREA (SQ. FT.)</th> <th>SOIL TYPE</th> <th>PLANT TYPE</th> <th>PLANT WATER REQUIREMENT (GAL. PER SQ. FT.)</th> <th>PLANT WATER REQUIREMENT (GAL. PER HOUR)</th> <th>PLANT WATER REQUIREMENT (GAL. PER DAY)</th> <th>PLANT WATER REQUIREMENT (GAL. PER WEEK)</th> <th>PLANT WATER REQUIREMENT (GAL. PER MONTH)</th> <th>PLANT WATER REQUIREMENT (GAL. PER YEAR)</th> </tr> </thead> <tbody> <tr><td>1</td><td>100</td><td>1</td><td>1</td><td>0.1</td><td>10</td><td>300</td><td>2100</td><td>6300</td><td>75600</td></tr> <tr><td>2</td><td>100</td><td>1</td><td>1</td><td>0.1</td><td>10</td><td>300</td><td>2100</td><td>6300</td><td>75600</td></tr> <tr><td>3</td><td>100</td><td>1</td><td>1</td><td>0.1</td><td>10</td><td>300</td><td>2100</td><td>6300</td><td>75600</td></tr> <tr><td>4</td><td>100</td><td>1</td><td>1</td><td>0.1</td><td>10</td><td>300</td><td>2100</td><td>6300</td><td>75600</td></tr> <tr><td>5</td><td>100</td><td>1</td><td>1</td><td>0.1</td><td>10</td><td>300</td><td>2100</td><td>6300</td><td>75600</td></tr> <tr><td>6</td><td>100</td><td>1</td><td>1</td><td>0.1</td><td>10</td><td>300</td><td>2100</td><td>6300</td><td>75600</td></tr> <tr><td>7</td><td>100</td><td>1</td><td>1</td><td>0.1</td><td>10</td><td>300</td><td>2100</td><td>6300</td><td>75600</td></tr> <tr><td>8</td><td>100</td><td>1</td><td>1</td><td>0.1</td><td>10</td><td>300</td><td>2100</td><td>6300</td><td>75600</td></tr> <tr><td>9</td><td>100</td><td>1</td><td>1</td><td>0.1</td><td>10</td><td>300</td><td>2100</td><td>6300</td><td>75600</td></tr> <tr><td>10</td><td>100</td><td>1</td><td>1</td><td>0.1</td><td>10</td><td>300</td><td>2100</td><td>6300</td><td>75600</td></tr> <tr><td>11</td><td>100</td><td>1</td><td>1</td><td>0.1</td><td>10</td><td>300</td><td>2100</td><td>6300</td><td>75600</td></tr> <tr><td>12</td><td>100</td><td>1</td><td>1</td><td>0.1</td><td>10</td><td>300</td><td>2100</td><td>6300</td><td>75600</td></tr> <tr><td>13</td><td>100</td><td>1</td><td>1</td><td>0.1</td><td>10</td><td>300</td><td>2100</td><td>6300</td><td>75600</td></tr> <tr><td>14</td><td>100</td><td>1</td><td>1</td><td>0.1</td><td>10</td><td>300</td><td>2100</td><td>6300</td><td>75600</td></tr> <tr><td>15</td><td>100</td><td>1</td><td>1</td><td>0.1</td><td>10</td><td>300</td><td>2100</td><td>6300</td><td>75600</td></tr> <tr><td>16</td><td>100</td><td>1</td><td>1</td><td>0.1</td><td>10</td><td>300</td><td>2100</td><td>6300</td><td>75600</td></tr> <tr><td>17</td><td>100</td><td>1</td><td>1</td><td>0.1</td><td>10</td><td>300</td><td>2100</td><td>6300</td><td>75600</td></tr> <tr><td>18</td><td>100</td><td>1</td><td>1</td><td>0.1</td><td>10</td><td>300</td><td>2100</td><td>6300</td><td>75600</td></tr> <tr><td>19</td><td>100</td><td>1</td><td>1</td><td>0.1</td><td>10</td><td>300</td><td>2100</td><td>6300</td><td>75600</td></tr> <tr><td>20</td><td>100</td><td>1</td><td>1</td><td>0.1</td><td>10</td><td>300</td><td>2100</td><td>6300</td><td>75600</td></tr> <tr><td>21</td><td>100</td><td>1</td><td>1</td><td>0.1</td><td>10</td><td>300</td><td>2100</td><td>6300</td><td>75600</td></tr> <tr><td>22</td><td>100</td><td>1</td><td>1</td><td>0.1</td><td>10</td><td>300</td><td>2100</td><td>6300</td><td>75600</td></tr> <tr><td>23</td><td>100</td><td>1</td><td>1</td><td>0.1</td><td>10</td><td>300</td><td>2100</td><td>6300</td><td>75600</td></tr> <tr><td>24</td><td>100</td><td>1</td><td>1</td><td>0.1</td><td>10</td><td>300</td><td>2100</td><td>6300</td><td>75600</td></tr> <tr><td>25</td><td>100</td><td>1</td><td>1</td><td>0.1</td><td>10</td><td>300</td><td>2100</td><td>6300</td><td>75600</td></tr> <tr><td>26</td><td>100</td><td>1</td><td>1</td><td>0.1</td><td>10</td><td>300</td><td>2100</td><td>6300</td><td>75600</td></tr> <tr><td>27</td><td>100</td><td>1</td><td>1</td><td>0.1</td><td>10</td><td>300</td><td>2100</td><td>6300</td><td>75600</td></tr> <tr><td>28</td><td>100</td><td>1</td><td>1</td><td>0.1</td><td>10</td><td>300</td><td>2100</td><td>6300</td><td>75600</td></tr> <tr><td>29</td><td>100</td><td>1</td><td>1</td><td>0.1</td><td>10</td><td>300</td><td>2100</td><td>6300</td><td>75600</td></tr> <tr><td>30</td><td>100</td><td>1</td><td>1</td><td>0.1</td><td>10</td><td>300</td><td>2100</td><td>6300</td><td>75600</td></tr> <tr><td>31</td><td>100</td><td>1</td><td>1</td><td>0.1</td><td>10</td><td>300</td><td>2100</td><td>6300</td><td>75600</td></tr> <tr><td>32</td><td>100</td><td>1</td><td>1</td><td>0.1</td><td>10</td><td>300</td><td>2100</td><td>6300</td><td>75600</td></tr> <tr><td>33</td><td>100</td><td>1</td><td>1</td><td>0.1</td><td>10</td><td>300</td><td>2100</td><td>6300</td><td>75600</td></tr> <tr><td>34</td><td>100</td><td>1</td><td>1</td><td>0.1</td><td>10</td><td>300</td><td>2100</td><td>6300</td><td>75600</td></tr> <tr><td>35</td><td>100</td><td>1</td><td>1</td><td>0.1</td><td>10</td><td>300</td><td>2100</td><td>6300</td><td>75600</td></tr> <tr><td>36</td><td>100</td><td>1</td><td>1</td><td>0.1</td><td>10</td><td>300</td><td>2100</td><td>6300</td><td>75600</td></tr> <tr><td>37</td><td>100</td><td>1</td><td>1</td><td>0.1</td><td>10</td><td>300</td><td>2100</td><td>6300</td><td>75600</td></tr> <tr><td>38</td><td>100</td><td>1</td><td>1</td><td>0.1</td><td>10</td><td>300</td><td>2100</td><td>6300</td><td>75600</td></tr> <tr><td>39</td><td>100</td><td>1</td><td>1</td><td>0.1</td><td>10</td><td>300</td><td>2100</td><td>6300</td><td>75600</td></tr> <tr><td>40</td><td>100</td><td>1</td><td>1</td><td>0.1</td><td>10</td><td>300</td><td>2100</td><td>6300</td><td>75600</td></tr> <tr><td>41</td><td>100</td><td>1</td><td>1</td><td>0.1</td><td>10</td><td>300</td><td>2100</td><td>6300</td><td>75600</td></tr> <tr><td>42</td><td>100</td><td>1</td><td>1</td><td>0.1</td><td>10</td><td>300</td><td>2100</td><td>6300</td><td>75600</td></tr> <tr><td>43</td><td>100</td><td>1</td><td>1</td><td>0.1</td><td>10</td><td>300</td><td>2100</td><td>6300</td><td>75600</td></tr> <tr><td>44</td><td>100</td><td>1</td><td>1</td><td>0.1</td><td>10</td><td>300</td><td>2100</td><td>6300</td><td>75600</td></tr> <tr><td>45</td><td>100</td><td>1</td><td>1</td><td>0.1</td><td>10</td><td>300</td><td>2100</td><td>6300</td><td>75600</td></tr> <tr><td>46</td><td>100</td><td>1</td><td>1</td><td>0.1</td><td>10</td><td>300</td><td>2100</td><td>6300</td><td>75600</td></tr> <tr><td>47</td><td>100</td><td>1</td><td>1</td><td>0.1</td><td>10</td><td>300</td><td>2100</td><td>6300</td><td>75600</td></tr> <tr><td>48</td><td>100</td><td>1</td><td>1</td><td>0.1</td><td>10</td><td>300</td><td>2100</td><td>6300</td><td>75600</td></tr> <tr><td>49</td><td>100</td><td>1</td><td>1</td><td>0.1</td><td>10</td><td>300</td><td>2100</td><td>6300</td><td>75600</td></tr> <tr><td>50</td><td>100</td><td>1</td><td>1</td><td>0.1</td><td>10</td><td>300</td><td>2100</td><td>6300</td><td>75600</td></tr> <tr><td>51</td><td>100</td><td>1</td><td>1</td><td>0.1</td><td>10</td><td>300</td><td>2100</td><td>6300</td><td>75600</td></tr> <tr><td>52</td><td>100</td><td>1</td><td>1</td><td>0.1</td><td>10</td><td>300</td><td>2100</td><td>6300</td><td>75600</td></tr> <tr><td>53</td><td>100</td><td>1</td><td>1</td><td>0.1</td><td>10</td><td>300</td><td>2100</td><td>6300</td><td>75600</td></tr> <tr><td>54</td><td>100</td><td>1</td><td>1</td><td>0.1</td><td>10</td><td>300</td><td>2100</td><td>6300</td><td>75600</td></tr> <tr><td>55</td><td>100</td><td>1</td><td>1</td><td>0.1</td><td>10</td><td>300</td><td>2100</td><td>6300</td><td>75600</td></tr> <tr><td>56</td><td>100</td><td>1</td><td>1</td><td>0.1</td><td>10</td><td>300</td><td>2100</td><td>6300</td><td>75600</td></tr> <tr><td>57</td><td>100</td><td>1</td><td>1</td><td>0.1</td><td>10</td><td>300</td><td>2100</td><td>6300</td><td>75600</td></tr> <tr><td>58</td><td>100</td><td>1</td><td>1</td><td>0.1</td><td>10</td><td>300</td><td>2100</td><td>6300</td><td>75600</td></tr> <tr><td>59</td><td>100</td><td>1</td><td>1</td><td>0.1</td><td>10</td><td>300</td><td>2100</td><td>6300</td><td>75600</td></tr> <tr><td>60</td><td>100</td><td>1</td><td>1</td><td>0.1</td><td>10</td><td>300</td><td>2100</td><td>6300</td><td>75600</td></tr> <tr><td>61</td><td>100</td><td>1</td><td>1</td><td>0.1</td><td>10</td><td>300</td><td>2100</td><td>6300</td><td>75600</td></tr> <tr><td>62</td><td>100</td><td>1</td><td>1</td><td>0.1</td><td>10</td><td>300</td><td>2100</td><td>6300</td><td>75600</td></tr> <tr><td>63</td><td>100</td><td>1</td><td>1</td><td>0.1</td><td>10</td><td>300</td><td>2100</td><td>6300</td><td>75600</td></tr> <tr><td>64</td><td>100</td><td>1</td><td>1</td><td>0.1</td><td>10</td><td>300</td><td>2100</td><td>6300</td><td>75600</td></tr> <tr><td>65</td><td>100</td><td>1</td><td>1</td><td>0.1</td><td>10</td><td>300</td><td>2100</td><td>6300</td><td>75600</td></tr> <tr><td>66</td><td>100</td><td>1</td><td>1</td><td>0.1</td><td>10</td><td>300</td><td>2100</td><td>6300</td><td>75600</td></tr> <tr><td>67</td><td>100</td><td>1</td><td>1</td><td>0.1</td><td>10</td><td>300</td><td>2100</td><td>6300</td><td>75600</td></tr> <tr><td>68</td><td>100</td><td>1</td><td>1</td><td>0.1</td><td>10</td><td>300</td><td>2100</td><td>6300</td><td>75600</td></tr> <tr><td>69</td><td>100</td><td>1</td><td>1</td><td>0.1</td><td>10</td><td>300</td><td>2100</td><td>6300</td><td>75600</td></tr> <tr><td>70</td><td>100</td><td>1</td><td>1</td><td>0.1</td><td>10</td><td>300</td><td>2100</td><td>6300</td><td>75600</td></tr> <tr><td>71</td><td>100</td><td>1</td><td>1</td><td>0.1</td><td>10</td><td>300</td><td>2100</td><td>6300</td><td>75600</td></tr> <tr><td>72</td><td>100</td><td>1</td><td>1</td><td>0.1</td><td>10</td><td>300</td><td>2100</td><td>6300</td><td>75600</td></tr> <tr><td>73</td><td>100</td><td>1</td><td>1</td><td>0.1</td><td>10</td><td>300</td><td>2100</td><td>6300</td><td>75600</td></tr> <tr><td>74</td><td>100</td><td>1</td><td>1</td><td>0.1</td><td>10</td><td>300</td><td>2100</td><td>6300</td><td>75600</td></tr> <tr><td>75</td><td>100</td><td>1</td><td>1</td><td>0.1</td><td>10</td><td>300</td><td>2100</td><td>6300</td><td>75600</td></tr> <tr><td>76</td><td>100</td><td>1</td><td>1</td><td>0.1</td><td>10</td><td>300</td><td>2100</td><td>6300</td><td>75600</td></tr> <tr><td>77</td><td>100</td><td>1</td><td>1</td><td>0.1</td><td>10</td><td>300</td><td>2100</td><td>6300</td><td>75600</td></tr> <tr><td>78</td><td>100</td><td>1</td><td>1</td><td>0.1</td><td>10</td><td>300</td><td>2100</td><td>6300</td><td>75600</td></tr> <tr><td>79</td><td>100</td><td>1</td><td>1</td><td>0.1</td><td>10</td><td>300</td><td>2100</td><td>6300</td><td>75600</td></tr> <tr><td>80</td><td>100</td><td>1</td><td>1</td><td>0.1</td><td>10</td><td>300</td><td>2100</td><td>6300</td><td>75600</td></tr> <tr><td>81</td><td>100</td><td>1</td><td>1</td><td>0.1</td><td>10</td><td>300</td><td>2100</td><td>6300</td><td>75600</td></tr> <tr><td>82</td><td>100</td><td>1</td><td>1</td><td>0.1</td><td>10</td><td>300</td><td>2100</td><td>6300</td><td>75600</td></tr> <tr><td>83</td><td>100</td><td>1</td><td>1</td><td>0.1</td><td>10</td><td>300</td><td>2100</td><td>6300</td><td>75600</td></tr> <tr><td>84</td><td>100</td><td>1</td><td>1</td><td>0.1</td><td>10</td><td>300</td><td>2100</td><td>6300</td><td>75600</td></tr> <tr><td>85</td><td>100</td><td>1</td><td>1</td><td>0.1</td><td>10</td><td>300</td><td>2100</td><td>6300</td><td>75600</td></tr> <tr><td>86</td><td>100</td><td>1</td><td>1</td><td>0.1</td><td>10</td><td>300</td><td>2100</td><td>6300</td><td>75600</td></tr> <tr><td>87</td><td>100</td><td>1</td><td>1</td><td>0.1</td><td>10</td><td>300</td><td>2100</td><td>6300</td><td>75600</td></tr> <tr><td>88</td><td>100</td><td>1</td><td>1</td><td>0.1</td><td>10</td><td>300</td><td>2100</td><td>6300</td><td>75600</td></tr> <tr><td>89</td><td>100</td><td>1</td><td>1</td><td>0.1</td><td>10</td><td>300</td><td>2100</td><td>6300</td><td>75600</td></tr> <tr><td>90</td><td>100</td><td>1</td><td>1</td><td>0.1</td><td>10</td><td>300</td><td>2100</td><td>6300</td><td>75600</td></tr> <tr><td>91</td><td>100</td><td>1</td><td>1</td><td>0.1</td><td>10</td><td>300</td><td>2100</td><td>6300</td><td>75600</td></tr> <tr><td>92</td><td>100</td><td>1</td><td>1</td><td>0.1</td><td>10</td><td>300</td><td>2100</td><td>6300</td><td>75600</td></tr> <tr><td>93</td><td>100</td><td>1</td><td>1</td><td>0.1</td><td>10</td><td>300</td><td>2100</td><td>6300</td><td>75600</td></tr> <tr><td>94</td><td>100</td><td>1</td><td>1</td><td>0.1</td><td>10</td><td>300</td><td>2100</td><td>6300</td><td>75600</td></tr> <tr><td>95</td><td>100</td><td>1</td><td>1</td><td>0.1</td><td>10</td><td>300</td><td>2100</td><td>6300</td><td>75600</td></tr> <tr><td>96</td><td>100</td><td>1</td><td>1</td><td>0.1</td><td>10</td><td>300</td><td>2100</td><td>6300</td><td>75600</td></tr> <tr><td>97</td><td>100</td><td>1</td><td>1</td><td>0.1</td><td>10</td><td>300</td><td>2100</td><td>6300</td><td>75600</td></tr> <tr><td>98</td><td>100</td><td>1</td><td>1</td><td>0.1</td><td>10</td><td>300</td><td>2100</td><td>6300</td><td>75600</td></tr> <tr><td>99</td><td>100</td><td>1</td><td>1</td><td>0.1</td><td>10</td><td>300</td><td>2100</td><td>6300</td><td>75600</td></tr> <tr><td>100</td><td>100</td><td>1</td><td>1</td><td>0.1</td><td>10</td><td>300</td><td>2100</td><td>6300</td><td>75600</td></tr> </tbody> </table>	STATION	AREA (SQ. FT.)	SOIL TYPE	PLANT TYPE	PLANT WATER REQUIREMENT (GAL. PER SQ. FT.)	PLANT WATER REQUIREMENT (GAL. PER HOUR)	PLANT WATER REQUIREMENT (GAL. PER DAY)	PLANT WATER REQUIREMENT (GAL. PER WEEK)	PLANT WATER REQUIREMENT (GAL. PER MONTH)	PLANT WATER REQUIREMENT (GAL. PER YEAR)	1	100	1	1	0.1	10	300	2100	6300	75600	2	100	1	1	0.1	10	300	2100	6300	75600	3	100	1	1	0.1	10	300	2100	6300	75600	4	100	1	1	0.1	10	300	2100	6300	75600	5	100	1	1	0.1	10	300	2100	6300	75600	6	100	1	1	0.1	10	300	2100	6300	75600	7	100	1	1	0.1	10	300	2100	6300	75600	8	100	1	1	0.1	10	300	2100	6300	75600	9	100	1	1	0.1	10	300	2100	6300	75600	10	100	1	1	0.1	10	300	2100	6300	75600	11	100	1	1	0.1	10	300	2100	6300	75600	12	100	1	1	0.1	10	300	2100	6300	75600	13	100	1	1	0.1	10	300	2100	6300	75600	14	100	1	1	0.1	10	300	2100	6300	75600	15	100	1	1	0.1	10	300	2100	6300	75600	16	100	1	1	0.1	10	300	2100	6300	75600	17	100	1	1	0.1	10	300	2100	6300	75600	18	100	1	1	0.1	10	300	2100	6300	75600	19	100	1	1	0.1	10	300	2100	6300	75600	20	100	1	1	0.1	10	300	2100	6300	75600	21	100	1	1	0.1	10	300	2100	6300	75600	22	100	1	1	0.1	10	300	2100	6300	75600	23	100	1	1	0.1	10	300	2100	6300	75600	24	100	1	1	0.1	10	300	2100	6300	75600	25	100	1	1	0.1	10	300	2100	6300	75600	26	100	1	1	0.1	10	300	2100	6300	75600	27	100	1	1	0.1	10	300	2100	6300	75600	28	100	1	1	0.1	10	300	2100	6300	75600	29	100	1	1	0.1	10	300	2100	6300	75600	30	100	1	1	0.1	10	300	2100	6300	75600	31	100	1	1	0.1	10	300	2100	6300	75600	32	100	1	1	0.1	10	300	2100	6300	75600	33	100	1	1	0.1	10	300	2100	6300	75600	34	100	1	1	0.1	10	300	2100	6300	75600	35	100	1	1	0.1	10	300	2100	6300	75600	36	100	1	1	0.1	10	300	2100	6300	75600	37	100	1	1	0.1	10	300	2100	6300	75600	38	100	1	1	0.1	10	300	2100	6300	75600	39	100	1	1	0.1	10	300	2100	6300	75600	40	100	1	1	0.1	10	300	2100	6300	75600	41	100	1	1	0.1	10	300	2100	6300	75600	42	100	1	1	0.1	10	300	2100	6300	75600	43	100	1	1	0.1	10	300	2100	6300	75600	44	100	1	1	0.1	10	300	2100	6300	75600	45	100	1	1	0.1	10	300	2100	6300	75600	46	100	1	1	0.1	10	300	2100	6300	75600	47	100	1	1	0.1	10	300	2100	6300	75600	48	100	1	1	0.1	10	300	2100	6300	75600	49	100	1	1	0.1	10	300	2100	6300	75600	50	100	1	1	0.1	10	300	2100	6300	75600	51	100	1	1	0.1	10	300	2100	6300	75600	52	100	1	1	0.1	10	300	2100	6300	75600	53	100	1	1	0.1	10	300	2100	6300	75600	54	100	1	1	0.1	10	300	2100	6300	75600	55	100	1	1	0.1	10	300	2100	6300	75600	56	100	1	1	0.1	10	300	2100	6300	75600	57	100	1	1	0.1	10	300	2100	6300	75600	58	100	1	1	0.1	10	300	2100	6300	75600	59	100	1	1	0.1	10	300	2100	6300	75600	60	100	1	1	0.1	10	300	2100	6300	75600	61	100	1	1	0.1	10	300	2100	6300	75600	62	100	1	1	0.1	10	300	2100	6300	75600	63	100	1	1	0.1	10	300	2100	6300	75600	64	100	1	1	0.1	10	300	2100	6300	75600	65	100	1	1	0.1	10	300	2100	6300	75600	66	100	1	1	0.1	10	300	2100	6300	75600	67	100	1	1	0.1	10	300	2100	6300	75600	68	100	1	1	0.1	10	300	2100	6300	75600	69	100	1	1	0.1	10	300	2100	6300	75600	70	100	1	1	0.1	10	300	2100	6300	75600	71	100	1	1	0.1	10	300	2100	6300	75600	72	100	1	1	0.1	10	300	2100	6300	75600	73	100	1	1	0.1	10	300	2100	6300	75600	74	100	1	1	0.1	10	300	2100	6300	75600	75	100	1	1	0.1	10	300	2100	6300	75600	76	100	1	1	0.1	10	300	2100	6300	75600	77	100	1	1	0.1	10	300	2100	6300	75600	78	100	1	1	0.1	10	300	2100	6300	75600	79	100	1	1	0.1	10	300	2100	6300	75600	80	100	1	1	0.1	10	300	2100	6300	75600	81	100	1	1	0.1	10	300	2100	6300	75600	82	100	1	1	0.1	10	300	2100	6300	75600	83	100	1	1	0.1	10	300	2100	6300	75600	84	100	1	1	0.1	10	300	2100	6300	75600	85	100	1	1	0.1	10	300	2100	6300	75600	86	100	1	1	0.1	10	300	2100	6300	75600	87	100	1	1	0.1	10	300	2100	6300	75600	88	100	1	1	0.1	10	300	2100	6300	75600	89	100	1	1	0.1	10	300	2100	6300	75600	90	100	1	1	0.1	10	300	2100	6300	75600	91	100	1	1	0.1	10	300	2100	6300	75600	92	100	1	1	0.1	10	300	2100	6300	75600	93	100	1	1	0.1	10	300	2100	6300	75600	94	100	1	1	0.1	10	300	2100	6300	75600	95	100	1	1	0.1	10	300	2100	6300	75600	96	100	1	1	0.1	10	300	2100	6300	75600	97	100	1	1	0.1	10	300	2100	6300	75600	98	100	1	1	0.1	10	300	2100	6300	75600	99	100	1	1	0.1	10	300	2100	6300	75600	100	100	1	1	0.1	10	300	2100	6300	75600	 <ol style="list-style-type: none"> 1. 4-INCH GRATE 2. ROOT WATERING SYSTEM RAIN BIRD (RAIS INCLUDES BUBBLER ON REAR GRATE) 3. BUBBLER 4. FINISH SURFACE MULCH OR D.G. 5. CHECK VALVE 6. OPTIONAL PEA GRAVEL FOR SANDY SOILS 7. 1/2-INCH PVC SCHED 40 PIPE 8. 1/2-INCH HD-DEGREE ELBOW 9. SWING-BEE 1/2-INCH SWING ASSEMBLY 10. 1/2-INCH MALE NPT RILET 11. PVC SCH 40 TEE OR G. 12. LATERAL PIPE 13. 4-INCH BASKET WEAVE CANISTER
STATION	AREA (SQ. FT.)	SOIL TYPE	PLANT TYPE	PLANT WATER REQUIREMENT (GAL. PER SQ. FT.)	PLANT WATER REQUIREMENT (GAL. PER HOUR)	PLANT WATER REQUIREMENT (GAL. PER DAY)	PLANT WATER REQUIREMENT (GAL. PER WEEK)	PLANT WATER REQUIREMENT (GAL. PER MONTH)	PLANT WATER REQUIREMENT (GAL. PER YEAR)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
1	100	1	1	0.1	10	300	2100	6300	75600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
2	100	1	1	0.1	10	300	2100	6300	75600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
3	100	1	1	0.1	10	300	2100	6300	75600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
4	100	1	1	0.1	10	300	2100	6300	75600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
5	100	1	1	0.1	10	300	2100	6300	75600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
6	100	1	1	0.1	10	300	2100	6300	75600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
7	100	1	1	0.1	10	300	2100	6300	75600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
8	100	1	1	0.1	10	300	2100	6300	75600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
9	100	1	1	0.1	10	300	2100	6300	75600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
10	100	1	1	0.1	10	300	2100	6300	75600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
11	100	1	1	0.1	10	300	2100	6300	75600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
12	100	1	1	0.1	10	300	2100	6300	75600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
13	100	1	1	0.1	10	300	2100	6300	75600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
14	100	1	1	0.1	10	300	2100	6300	75600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
15	100	1	1	0.1	10	300	2100	6300	75600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
16	100	1	1	0.1	10	300	2100	6300	75600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
17	100	1	1	0.1	10	300	2100	6300	75600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
18	100	1	1	0.1	10	300	2100	6300	75600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
19	100	1	1	0.1	10	300	2100	6300	75600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
20	100	1	1	0.1	10	300	2100	6300	75600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
21	100	1	1	0.1	10	300	2100	6300	75600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
22	100	1	1	0.1	10	300	2100	6300	75600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
23	100	1	1	0.1	10	300	2100	6300	75600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
24	100	1	1	0.1	10	300	2100	6300	75600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
25	100	1	1	0.1	10	300	2100	6300	75600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
26	100	1	1	0.1	10	300	2100	6300	75600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
27	100	1	1	0.1	10	300	2100	6300	75600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
28	100	1	1	0.1	10	300	2100	6300	75600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
29	100	1	1	0.1	10	300	2100	6300	75600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
30	100	1	1	0.1	10	300	2100	6300	75600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
31	100	1	1	0.1	10	300	2100	6300	75600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
32	100	1	1	0.1	10	300	2100	6300	75600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
33	100	1	1	0.1	10	300	2100	6300	75600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
34	100	1	1	0.1	10	300	2100	6300	75600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
35	100	1	1	0.1	10	300	2100	6300	75600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
36	100	1	1	0.1	10	300	2100	6300	75600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
37	100	1	1	0.1	10	300	2100	6300	75600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
38	100	1	1	0.1	10	300	2100	6300	75600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
39	100	1	1	0.1	10	300	2100	6300	75600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
40	100	1	1	0.1	10	300	2100	6300	75600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
41	100	1	1	0.1	10	300	2100	6300	75600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
42	100	1	1	0.1	10	300	2100	6300	75600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
43	100	1	1	0.1	10	300	2100	6300	75600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
44	100	1	1	0.1	10	300	2100	6300	75600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
45	100	1	1	0.1	10	300	2100	6300	75600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
46	100	1	1	0.1	10	300	2100	6300	75600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
47	100	1	1	0.1	10	300	2100	6300	75600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
48	100	1	1	0.1	10	300	2100	6300	75600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
49	100	1	1	0.1	10	300	2100	6300	75600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
50	100	1	1	0.1	10	300	2100	6300	75600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
51	100	1	1	0.1	10	300	2100	6300	75600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
52	100	1	1	0.1	10	300	2100	6300	75600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
53	100	1	1	0.1	10	300	2100	6300	75600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
54	100	1	1	0.1	10	300	2100	6300	75600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
55	100	1	1	0.1	10	300	2100	6300	75600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
56	100	1	1	0.1	10	300	2100	6300	75600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
57	100	1	1	0.1	10	300	2100	6300	75600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
58	100	1	1	0.1	10	300	2100	6300	75600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
59	100	1	1	0.1	10	300	2100	6300	75600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
60	100	1	1	0.1	10	300	2100	6300	75600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
61	100	1	1	0.1	10	300	2100	6300	75600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
62	100	1	1	0.1	10	300	2100	6300	75600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
63	100	1	1	0.1	10	300	2100	6300	75600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
64	100	1	1	0.1	10	300	2100	6300	75600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
65	100	1	1	0.1	10	300	2100	6300	75600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
66	100	1	1	0.1	10	300	2100	6300	75600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
67	100	1	1	0.1	10	300	2100	6300	75600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
68	100	1	1	0.1	10	300	2100	6300	75600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
69	100	1	1	0.1	10	300	2100	6300	75600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
70	100	1	1	0.1	10	300	2100	6300	75600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
71	100	1	1	0.1	10	300	2100	6300	75600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
72	100	1	1	0.1	10	300	2100	6300	75600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
73	100	1	1	0.1	10	300	2100	6300	75600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
74	100	1	1	0.1	10	300	2100	6300	75600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
75	100	1	1	0.1	10	300	2100	6300	75600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
76	100	1	1	0.1	10	300	2100	6300	75600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
77	100	1	1	0.1	10	300	2100	6300	75600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
78	100	1	1	0.1	10	300	2100	6300	75600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
79	100	1	1	0.1	10	300	2100	6300	75600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
80	100	1	1	0.1	10	300	2100	6300	75600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
81	100	1	1	0.1	10	300	2100	6300	75600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
82	100	1	1	0.1	10	300	2100	6300	75600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
83	100	1	1	0.1	10	300	2100	6300	75600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
84	100	1	1	0.1	10	300	2100	6300	75600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
85	100	1	1	0.1	10	300	2100	6300	75600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
86	100	1	1	0.1	10	300	2100	6300	75600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
87	100	1	1	0.1	10	300	2100	6300	75600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
88	100	1	1	0.1	10	300	2100	6300	75600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
89	100	1	1	0.1	10	300	2100	6300	75600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
90	100	1	1	0.1	10	300	2100	6300	75600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
91	100	1	1	0.1	10	300	2100	6300	75600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
92	100	1	1	0.1	10	300	2100	6300	75600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
93	100	1	1	0.1	10	300	2100	6300	75600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
94	100	1	1	0.1	10	300	2100	6300	75600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
95	100	1	1	0.1	10	300	2100	6300	75600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
96	100	1	1	0.1	10	300	2100	6300	75600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
97	100	1	1	0.1	10	300	2100	6300	75600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
98	100	1	1	0.1	10	300	2100	6300	75600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
99	100	1	1	0.1	10	300	2100	6300	75600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
100	100	1	1	0.1	10	300	2100	6300	75600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
<p>IRRIGATION CONTROLLER SCHEDULE</p> <p>DATE: 08/20/23 PROJECT: Proposed Truck Tire Repair Shop PROJECT CITY: Fontana, CA CLIENT: MARIANO, INC. PREPARED BY: MARIANO, INC.</p> <p>IRRIGATION ZONE: South West Area LAYOUT: 0101 REVISION HISTORY: REVISION NO. DATE BY: 1. ESTIMATED WATER USE DOES NOT EXCEED CALCULATED WATER VALUE FOR THIS PROJECT.</p> <p>ESTABLISHMENT</p> <p>NOTE: THIS SCHEDULE IS PROVIDED AS A STARTING POINT ONLY. THE CONTRACTOR SHALL ADJUST RUN TIMES FOR ACTUAL SITE CONDITIONS, SOIL CONDITIONS AND REQUIRE SLOPE MULTIFIERS FOR ACTUAL SITE CONDITIONS. SLOPE CONDITIONS MAY REQUIRE SLOPE MULTIFIERS TO ACCOMMODATE SLOPE AND RUNTIME VALUES. CONTRACTOR SHALL ADJUST RUN TIMES TO ALLOW FOR SOIL INFILTRATION RATES TO SUBSTRATE RUNTIME.</p> <p>SCHEDULING DATA</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>STATION</th> <th>AREA (SQ. FT.)</th> <th>SOIL TYPE</th> <th>PLANT TYPE</th> <th>PLANT WATER REQUIREMENT (GAL. PER SQ. FT.)</th> <th>PLANT WATER REQUIREMENT (GAL. PER HOUR)</th> <th>PLANT WATER REQUIREMENT (GAL. PER DAY)</th> <th>PLANT WATER REQUIREMENT (GAL. PER WEEK)</th> <th>PLANT WATER REQUIREMENT (GAL. PER MONTH)</th> <th>PLANT WATER REQUIREMENT (GAL. PER YEAR)</th> </tr> </thead> <tbody> <tr><td>1</td><td>100</td><td>1</td><td>1</td><td>0.1</td><td>10</td><td>300</td><td>2100</td><td>6300</td><td>75600</td></tr> <tr><td>2</td><td>100</td><td>1</td><td>1</td><td>0.1</td><td>10</td><td>300</td><td>2100</td><td>6300</td><td>75600</td></tr> <tr><td>3</td><td>100</td><td>1</td><td>1</td><td>0.1</td><td>10</td><td>300</td><td>2100</td><td>6300</td><td>75600</td></tr> <tr><td>4</td><td>100</td><td>1</td><td>1</td><td>0.1</td><td>10</td><td>300</td><td>2100</td><td>6300</td><td>75600</td></tr> <tr><td>5</td><td>100</td><td>1</td><td>1</td><td>0.1</td><td>10</td><td>300</td><td>2100</td><td>6300</td><td>75600</td></tr> <tr><td>6</td><td>100</td><td>1</td><td>1</td><td>0.1</td><td>10</td><td>300</td><td>2100</td><td>6300</td><td>75600</td></tr> <tr><td>7</td><td>100</td><td>1</td><td>1</td><td>0.1</td><td>10</td><td>300</td><td>2100</td><td>6300</td><td>75600</td></tr> <tr><td>8</td><td>100</td><td>1</td><td>1</td><td>0.1</td><td>10</td><td>300</td><td>2100</td><td>6300</td><td>75600</td></tr> <tr><td>9</td><td>100</td><td>1</td><td>1</td><td>0.1</td><td>10</td><td>300</td><td>2100</td><td>6300</td><td>75600</td></tr> <tr><td>10</td><td>100</td><td>1</td><td>1</td><td>0.1</td><td>10</td><td>300</td><td>2100</td><td>6300</td><td>75600</td></tr> <tr><td>11</td><td>100</td><td>1</td><td>1</td><td>0.1</td><td>10</td><td>300</td><td>2100</td><td>6300</td><td>75600</td></tr> <tr><td>12</td><td>100</td><td>1</td><td>1</td><td>0.1</td><td>10</td><td>300</td><td>2100</td><td>6300</td><td>75600</td></tr> <tr><td>13</td><td>100</td><td>1</td><td>1</td><td>0.1</td><td>10</td><td>300</td><td>2100</td><td>6300</td><td>75600</td></tr> <tr><td>14</td><td>100</td><td>1</td><td>1</td><td>0.1</td><td>10</td><td>300</td><td>2100</td><td>6300</td><td>75600</td></tr> <tr><td>15</td><td>100</td><td>1</td><td>1</td><td>0.1</td><td>10</td><td>300</td><td>2100</td><td>6300</td><td>75600</td></tr> <tr><td>16</td><td>100</td><td>1</td><td>1</td><td>0.1</td><td>10</td><td>300</td><td>2100</td><td>6300</td><td>75600</td></tr> <tr><td>17</td><td>100</td><td>1</td><td>1</td><td>0.1</td><td>10</td><td>300</td><td>2100</td><td>6300</td><td>75600</td></tr> <tr><td>18</td><td>100</td><td>1</td><td>1</td><td>0.1</td><td>10</td><td>300</td><td>2100</td><td>6300</td><td>75600</td></tr> <tr><td>19</td><td>100</td><td>1</td><td>1</td><td>0.1</td><td>10</td><td>300</td><td>2100</td><td>6300</td><td>75600</td></tr> <tr><td>20</td><td>100</td><td>1</td><td>1</td><td>0.1</td><td>10</td><td>300</td><td>2100</td><td>6300</td><td>75600</td></tr> <tr><td>21</td><td>100</td><td>1</td><td>1</td><td>0.1</td><td>10</td><td>300</td><td>2100</td><td>6300</td><td>75600</td></tr> <tr><td>22</td><td>100</td><td>1</td><td>1</td><td>0.1</td><td>10</td><td>300</td><td>2100</td><td>6300</td><td>75600</td></tr> <tr><td>23</td><td>100</td><td>1</td><td>1</td><td>0.1</td><td>10</td><td>300</td><td>2100</td><td>6300</td><td>75600</td></tr> <tr><td>24</td><td>100</td><td>1</td><td>1</td><td>0.1</td><td>10</td><td>300</td><td>2100</td><td>6300</td><td>75600</td></tr> <tr><td>25</td><td>100</td><td>1</td><td>1</td><td>0.1</td><td>10</td><td>300</td><td>2100</td><td>6300</td><td>75600</td></tr> <tr><td>26</td><td>100</td><td>1</td><td>1</td><td>0.1</td><td>10</td><td>300</td><td>2100</td><td>6300</td><td>75600</td></tr> <tr><td>27</td><td>100</td><td>1</td><td>1</td><td>0.1</td><td>10</td><td>300</td><td>2100</td><td>6300</td><td>75600</td></tr> <tr><td>28</td><td>100</td><td>1</td><td>1</td><td>0.1</td><td>10</td><td>300</td><td>2100</td><td>6300</td><td>75600</td></tr> <tr><td>29</td><td>100</td><td>1</td><td>1</td><td>0.1</td><td>10</td><td>300</td><td>2100</td><td>6300</td><td>75600</td></tr> <tr><td>30</td><td>100</td><td>1</td><td>1</td><td>0.1</td><td>10</td><td>300</td><td>2100</td><td>6300</td><td>75600</td></tr> <tr><td>31</td><td>100</td><td>1</td><td>1</td><td>0.1</td><td>10</td><td>300</td><td>2100</td><td>6300</td><td>75600</td></tr> <tr><td>32</td><td>100</td><td>1</td><td>1</td><td>0.1</td><td>10</td><td>300</td><td>2100</td><td>6300</td><td>75600</td></tr> <tr><td>33</td><td>100</td><td>1</td><td>1</td><td>0.1</td><td>10</td><td>300</td><td>2100</td><td>63</td></tr></tbody></table>	STATION	AREA (SQ. FT.)	SOIL TYPE	PLANT TYPE	PLANT WATER REQUIREMENT (GAL. PER SQ. FT.)	PLANT WATER REQUIREMENT (GAL. PER HOUR)	PLANT WATER REQUIREMENT (GAL. PER DAY)	PLANT WATER REQUIREMENT (GAL. PER WEEK)	PLANT WATER REQUIREMENT (GAL. PER MONTH)	PLANT WATER REQUIREMENT (GAL. PER YEAR)	1	100	1	1	0.1	10	300	2100	6300	75600	2	100	1	1	0.1	10	300	2100	6300	75600	3	100	1	1	0.1	10	300	2100	6300	75600	4	100	1	1	0.1	10	300	2100	6300	75600	5	100	1	1	0.1	10	300	2100	6300	75600	6	100	1	1	0.1	10	300	2100	6300	75600	7	100	1	1	0.1	10	300	2100	6300	75600	8	100	1	1	0.1	10	300	2100	6300	75600	9	100	1	1	0.1	10	300	2100	6300	75600	10	100	1	1	0.1	10	300	2100	6300	75600	11	100	1	1	0.1	10	300	2100	6300	75600	12	100	1	1	0.1	10	300	2100	6300	75600	13	100	1	1	0.1	10	300	2100	6300	75600	14	100	1	1	0.1	10	300	2100	6300	75600	15	100	1	1	0.1	10	300	2100	6300	75600	16	100	1	1	0.1	10	300	2100	6300	75600	17	100	1	1	0.1	10	300	2100	6300	75600	18	100	1	1	0.1	10	300	2100	6300	75600	19	100	1	1	0.1	10	300	2100	6300	75600	20	100	1	1	0.1	10	300	2100	6300	75600	21	100	1	1	0.1	10	300	2100	6300	75600	22	100	1	1	0.1	10	300	2100	6300	75600	23	100	1	1	0.1	10	300	2100	6300	75600	24	100	1	1	0.1	10	300	2100	6300	75600	25	100	1	1	0.1	10	300	2100	6300	75600	26	100	1	1	0.1	10	300	2100	6300	75600	27	100	1	1	0.1	10	300	2100	6300	75600	28	100	1	1	0.1	10	300	2100	6300	75600	29	100	1	1	0.1	10	300	2100	6300	75600	30	100	1	1	0.1	10	300	2100	6300	75600	31	100	1	1	0.1	10	300	2100	6300	75600	32	100	1	1	0.1	10	300	2100	6300	75600	33	100	1	1	0.1	10	300	2100	63																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
STATION	AREA (SQ. FT.)	SOIL TYPE	PLANT TYPE	PLANT WATER REQUIREMENT (GAL. PER SQ. FT.)	PLANT WATER REQUIREMENT (GAL. PER HOUR)	PLANT WATER REQUIREMENT (GAL. PER DAY)	PLANT WATER REQUIREMENT (GAL. PER WEEK)	PLANT WATER REQUIREMENT (GAL. PER MONTH)	PLANT WATER REQUIREMENT (GAL. PER YEAR)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
1	100	1	1	0.1	10	300	2100	6300	75600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
2	100	1	1	0.1	10	300	2100	6300	75600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
3	100	1	1	0.1	10	300	2100	6300	75600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
4	100	1	1	0.1	10	300	2100	6300	75600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
5	100	1	1	0.1	10	300	2100	6300	75600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
6	100	1	1	0.1	10	300	2100	6300	75600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
7	100	1	1	0.1	10	300	2100	6300	75600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
8	100	1	1	0.1	10	300	2100	6300	75600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
9	100	1	1	0.1	10	300	2100	6300	75600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
10	100	1	1	0.1	10	300	2100	6300	75600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
11	100	1	1	0.1	10	300	2100	6300	75600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
12	100	1	1	0.1	10	300	2100	6300	75600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
13	100	1	1	0.1	10	300	2100	6300	75600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
14	100	1	1	0.1	10	300	2100	6300	75600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
15	100	1	1	0.1	10	300	2100	6300	75600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
16	100	1	1	0.1	10	300	2100	6300	75600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
17	100	1	1	0.1	10	300	2100	6300	75600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
18	100	1	1	0.1	10	300	2100	6300	75600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
19	100	1	1	0.1	10	300	2100	6300	75600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
20	100	1	1	0.1	10	300	2100	6300	75600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
21	100	1	1	0.1	10	300	2100	6300	75600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
22	100	1	1	0.1	10	300	2100	6300	75600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
23	100	1	1	0.1	10	300	2100	6300	75600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
24	100	1	1	0.1	10	300	2100	6300	75600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
25	100	1	1	0.1	10	300	2100	6300	75600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
26	100	1	1	0.1	10	300	2100	6300	75600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
27	100	1	1	0.1	10	300	2100	6300	75600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
28	100	1	1	0.1	10	300	2100	6300	75600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
29	100	1	1	0.1	10	300	2100	6300	75600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
30	100	1	1	0.1	10	300	2100	6300	75600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
31	100	1	1	0.1	10	300	2100	6300	75600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
32	100	1	1	0.1	10	300	2100	6300	75600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
33	100	1	1	0.1	10	300	2100	63																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											

PART 1 - GENERAL

1.1 DESCRIPTION

A Scope of Work. Provide all labor, materials, transportation, and services necessary to furnish and install the Irrigation System as shown on the Drawings and described herein.

1.2 QUALITY ASSURANCE & REQUIREMENTS

A. Quality Assurance: The Contractor and its major job superintendent shall have regular design and specialized, for the preceding five years, in the installation of irrigation systems of similar scope and complexity to the system being installed on this project.

B. Permits and Fees: The Contractor shall secure the required licenses and permits, make payments of charges and fees required, give required notices to public authorities and verify permit conditions of arrangements made by others for the work of this section.

C. Manufacturer's Drawings: Manufacture's drawings and technical specifications shall be followed in all cases where the manufacturer's drawings and technical specifications conflict with the Drawings and Specifications.

D. Overruns and Replacements: 1. Convey all soil, local, municipal and state laws, rules and regulations. 2. Conform to applicable provisions of the latest editions of the Uniform Plumbing Code, the National Electric Code and all codes presently governing the materials and work at the project site.

E. Explanation of Drawings: 1. Due to the scale of the Drawings, it is not possible to indicate all offsets, fittings, devices, etc., which may be required. The Contractor shall carefully investigate the structural and finished conditions affecting all of his work and plan his work accordingly, furnishing such fittings, etc., as may be required to meet such conditions. Drawings are generally diagrammatic and indicative of the work to be installed. The work shall be installed in such a manner as to avoid conflict between the irrigation systems, drainage, underground utilities, above ground utilities and architectural features.

2. Work called out on the Drawings by notes or details shall be furnished and installed whether or not specifically mentioned in the Specifications.

3. The Contractor shall not utilize any irrigation system which is shown on the Drawings when it is obvious in the field that obstructions, grade differences, or discrepancies in dimensions exist that might not have been considered in engineering. Such obstructions or differences shall be brought to the attention of the Owner's Authorized Representative. In the event this notification is not performed, the Contractor shall assume full responsibility for any revision necessary.

4. The Contractor shall not utilize any irrigation system which is shown on the Drawings when it is obvious in the field that obstructions, grade differences, or discrepancies in dimensions exist that might not have been considered in engineering. Such obstructions or differences shall be brought to the attention of the Owner's Authorized Representative. In the event this notification is not performed, the Contractor shall assume full responsibility for any revision necessary.

5. All dimensions shown on drawings shall be minimum 1/8" in size when reduced to minimum control size and all 1/2", 1", 2", 3", 4", 6", 8", 10", 12", 16", 20", 24", 30", 36", 48", 60", 72", 96", 120", 144", 168", 192", 216", 240", 288", 324", 360", 432", 480", 540", 600", 648", 720", 792", 864", 936", 1008", 1080", 1152", 1224", 1296", 1368", 1440", 1512", 1584", 1656", 1728", 1800", 1872", 1944", 2016", 2088", 2160", 2232", 2304", 2376", 2448", 2520", 2592", 2664", 2736", 2808", 2880, 2952, 3024, 3096, 3168, 3240, 3312, 3384, 3456, 3528, 3600, 3672, 3744, 3816, 3888, 3960, 4032, 4104, 4176, 4248, 4320, 4392, 4464, 4536, 4608, 4680, 4752, 4824, 4896, 4968, 5040, 5112, 5184, 5256, 5328, 5400, 5472, 5544, 5616, 5688, 5760, 5832, 5904, 5976, 6048, 6120, 6192, 6264, 6336, 6408, 6480, 6552, 6624, 6696, 6768, 6840, 6912, 6984, 7056, 7128, 7200, 7272, 7344, 7416, 7488, 7560, 7632, 7704, 7776, 7848, 7920, 7992, 8064, 8136, 8208, 8280, 8352, 8424, 8496, 8568, 8640, 8712, 8784, 8856, 8928, 9000, 9072, 9144, 9216, 9288, 9360, 9432, 9504, 9576, 9648, 9720, 9792, 9864, 9936, 10008, 10080, 10152, 10224, 10296, 10368, 10440, 10512, 10584, 10656, 10728, 10800, 10872, 10944, 11016, 11088, 11160, 11232, 11304, 11376, 11448, 11520, 11592, 11664, 11736, 11808, 11880, 11952, 12024, 12096, 12168, 12240, 12312, 12384, 12456, 12528, 12600, 12672, 12744, 12816, 12888, 12960, 13032, 13104, 13176, 13248, 13320, 13392, 13464, 13536, 13608, 13680, 13752, 13824, 13896, 13968, 14040, 14112, 14184, 14256, 14328, 14400, 14472, 14544, 14616, 14688, 14760, 14832, 14904, 14976, 15048, 15120, 15192, 15264, 15336, 15408, 15480, 15552, 15624, 15696, 15768, 15840, 15912, 15984, 16056, 16128, 16200, 16272, 16344, 16416, 16488, 16560, 16632, 16704, 16776, 16848, 16920, 16992, 17064, 17136, 17208, 17280, 17352, 17424, 17496, 17568, 17640, 17712, 17784, 17856, 17928, 18000, 18072, 18144, 18216, 18288, 18360, 18432, 18504, 18576, 18648, 18720, 18792, 18864, 18936, 19008, 19080, 19152, 19224, 19296, 19368, 19440, 19512, 19584, 19656, 19728, 19800, 19872, 19944, 20016, 20088, 20160, 20232, 20304, 20376, 20448, 20520, 20592, 20664, 20736, 20808, 20880, 20952, 21024, 21096, 21168, 21240, 21312, 21384, 21456, 21528, 21600, 21672, 21744, 21816, 21888, 21960, 22032, 22104, 22176, 22248, 22320, 22392, 22464, 22536, 22608, 22680, 22752, 22824, 22896, 22968, 23040, 23112, 23184, 23256, 23328, 23400, 23472, 23544, 23616, 23688, 23760, 23832, 23904, 23976, 24048, 24120, 24192, 24264, 24336, 24408, 24480, 24552, 24624, 24696, 24768, 24840, 24912, 24984, 25056, 25128, 25200, 25272, 25344, 25416, 25488, 25560, 25632, 25704, 25776, 25848, 25920, 25992, 26064, 26136, 26208, 26280, 26352, 26424, 26496, 26568, 26640, 26712, 26784, 26856, 26928, 27000, 27072, 27144, 27216, 27288, 27360, 27432, 27504, 27576, 27648, 27720, 27792, 27864, 27936, 28008, 28080, 28152, 28224, 28296, 28368, 28440, 28512, 28584, 28656, 28728, 28800, 28872, 28944, 29016, 29088, 29160, 29232, 29304, 29376, 29448, 29520, 29592, 29664, 29736, 29808, 29880, 29952, 30024, 30096, 30168, 30240, 30312, 30384, 30456, 30528, 30600, 30672, 30744, 30816, 30888, 30960, 31032, 31104, 31176, 31248, 31320, 31392, 31464, 31536, 31608, 31680, 31752, 31824, 31896, 31968, 32040, 32112, 32184, 32256, 32328, 32400, 32472, 32544, 32616, 32688, 32760, 32832, 32904, 32976, 33048, 33120, 33192, 33264, 33336, 33408, 33480, 33552, 33624, 33696, 33768, 33840, 33912, 33984, 34056, 34128, 34200, 34272, 34344, 34416, 34488, 34560, 34632, 34704, 34776, 34848, 34920, 34992, 35064, 35136, 35208, 35280, 35352, 35424, 35496, 35568, 35640, 35712, 35784, 35856, 35928, 36000, 36072, 36144, 36216, 36288, 36360, 36432, 36504, 36576, 36648, 36720, 36792, 36864, 36936, 37008, 37080, 37152, 37224, 37296, 37368, 37440, 37512, 37584, 37656, 37728, 37800, 37872, 37944, 38016, 38088, 38160, 38232, 38304, 38376, 38448, 38520, 38592, 38664, 38736, 38808, 38880, 38952, 39024, 39096, 39168, 39240, 39312, 39384, 39456, 39528, 39600, 39672, 39744, 39816, 39888, 39960, 40032, 40104, 40176, 40248, 40320, 40392, 40464, 40536, 40608, 40680, 40752, 40824, 40896, 40968, 41040, 41112, 41184, 41256, 41328, 41400, 41472, 41544, 41616, 41688, 41760, 41832, 41904, 41976, 42048, 42120, 42192, 42264, 42336, 42408, 42480, 42552, 42624, 42696, 42768, 42840, 42912, 42984, 43056, 43128, 43200, 43272, 43344, 43416, 43488, 43560, 43632, 43704, 43776, 43848, 43920, 43992, 44064, 44136, 44208, 44280, 44352, 44424, 44496, 44568, 44640, 44712, 44784, 44856, 44928, 45000, 45072, 45144, 45216, 45288, 45360, 45432, 45504, 45576, 45648, 45720, 45792, 45864, 45936, 46008, 46080, 46152, 46224, 46296, 46368, 46440, 46512, 46584, 46656, 46728, 46800, 46872, 46944, 47016, 47088, 47160, 47232, 47304, 47376, 47448, 47520, 47592, 47664, 47736, 47808, 47880, 47952, 48024, 48096, 48168, 48240, 48312, 48384, 48456, 48528, 48600, 48672, 48744, 48816, 48888, 48960, 49032, 49104, 49176, 49248, 49320, 49392, 49464, 49536, 49608, 49680, 49752, 49824, 49896, 49968, 50040, 50112, 50184, 50256, 50328, 50400, 50472, 50544, 50616, 50688, 50760, 50832, 50904, 50976, 51048, 51120, 51192, 51264, 51336, 51408, 51480, 51552, 51624, 51696, 51768, 51840, 51912, 51984, 52056, 52128, 52200, 52272, 52344, 52416, 52488, 52560, 52632, 52704, 52776, 52848, 52920, 52992, 53064, 53136, 53208, 53280, 53352, 53424, 53496, 53568, 53640, 53712, 53784, 53856, 53928, 54000, 54072, 54144, 54216, 54288, 54360, 54432, 54504, 54576, 54648, 54720, 54792, 54864, 54936, 55008, 55080, 55152, 55224, 55296, 55368, 55440, 55512, 55584, 55656, 55728, 55800, 55872, 55944, 56016, 56088, 56160, 56232, 56304, 56376, 56448, 56520, 56592, 56664, 56736, 56808, 56880, 56952, 57024, 57096, 57168, 57240, 57312, 57384, 57456, 57528, 57600, 57672, 57744, 57816, 57888, 57960, 58032, 58104, 58176, 58248, 58320, 58392, 58464, 58536, 58608, 58680, 58752, 58824, 58896, 58968, 59040, 59112, 59184, 59256, 59328, 59400, 59472, 59544, 59616, 59688, 59760, 59832, 59904, 59976, 60048, 60120, 60192, 60264, 60336, 60408, 60480, 60552, 60624, 60696, 60768, 60840, 60912, 60984, 61056, 61128, 61200, 61272, 61344, 61416, 61488, 61560, 61632, 61704, 61776, 61848, 61920, 61992, 62064, 62136, 62208, 62280, 62352, 62424, 62496, 62568, 62640, 62712, 62784, 62856, 62928, 63000, 63072, 63144, 63216, 63288, 63360, 63432, 63504, 63576, 63648, 63720, 63792, 63864, 63936, 64008, 64080, 64152, 64224, 64296, 64368, 64440, 64512, 64584, 64656, 64728, 64800, 64872, 64944, 65016, 65088, 65160, 65232, 65304, 65376, 65448, 65520, 65592, 65664, 65736, 65808, 65880, 65952, 66024, 66096, 66168, 66240, 66312, 66384, 66456, 66528, 66600, 66672, 66744, 66816, 66888, 66960, 67032, 67104, 67176, 67248, 67320, 67392, 67464, 67536, 67608, 67680, 67752, 67824, 67896, 67968, 68040, 68112, 68184, 68256, 68328, 68400, 68472, 68544, 68616, 68688, 68760, 68832, 68904, 68976, 69048, 69120, 69192, 69264, 69336, 69408, 69480, 69552, 69624, 69696, 69768, 69840, 69912, 69984, 70056, 70128, 70200, 70272, 70344, 70416, 70488, 70560, 70632, 70704, 70776, 70848, 70920, 70992, 71064, 71136, 71208, 71280, 71352, 71424, 71496, 71568, 71640, 71712, 71784, 71856, 71928, 72000, 72072, 72144, 72216, 72288, 72360, 72432, 72504, 72576, 72648, 72720, 72792, 72864, 72936, 73008, 73080, 73152, 73224, 73296, 73368, 73440, 73512, 73584, 73656, 73728, 73800, 73872, 73944, 74016, 74088, 74160, 74232, 74304, 74376, 74448, 74520, 74592, 74664, 74736, 74808, 74880, 74952, 75024, 75096, 75168, 75240, 75312, 75384, 75456, 75528, 75600, 75672, 75744, 75816, 75888, 75960, 76032, 76104, 76176, 76248, 76320, 76392, 76464, 76536, 76608, 76680, 76752, 76824, 76896, 76968, 77040, 77112, 77184, 77256, 77328, 77400, 77472, 77544, 77616, 77688, 77760, 77832, 77904, 77976, 78048, 78120, 78192, 78264, 78336, 78408, 78480, 78552, 78624, 78696, 78768, 78840, 78912, 78984, 79056, 79128, 79200, 79272, 79344, 79416, 79488, 79560, 79632, 79704, 79776, 79848, 79920, 79992, 80064, 80136, 80208, 80280, 80352, 80424, 80496, 80568, 80640, 80712, 80784, 80856, 80928, 81000, 81072, 81144, 81216, 81288, 81360, 81432, 81504, 81576, 81648, 81720, 81792, 81864, 81936, 82008, 82080, 82152, 82224, 82296, 82368, 82440, 82512, 82584, 82656, 82728, 82800, 82872, 82944, 83016, 83088, 83160, 83232, 83304, 83376, 83448, 83520, 83592, 83664, 83736, 83808, 83880, 83952, 84024, 84096, 84168, 84240, 84312, 84384, 84456, 84528, 84600, 84672, 84744, 84816, 84888, 84960, 85032, 85104, 85176, 85248, 85320, 85392, 85464, 85536, 85608, 85680, 85752, 85824, 85896, 85968, 86040, 86112, 86184, 86256, 86328, 86400, 86472, 86544, 86616, 86688, 86760, 86832, 86904, 86976, 87048, 87120, 87192, 87264, 87336, 87408, 87480, 87552, 87624, 87696, 87768, 87840, 87912, 87984, 88056, 88128, 88200, 88272, 88344, 88416, 88488, 88560, 88632, 88704, 88776, 88848, 88920, 88992, 89064, 89136, 89208, 89280, 89352, 89424, 89496, 89568, 89640, 89712, 89784, 89856, 89928, 90000, 90072, 90144, 90216, 90288, 90360, 90432, 90504, 90576, 90648, 90720, 90792, 90864, 90936, 91008, 91080, 91152, 91224, 91296, 91368, 91440, 91512, 91584, 91656, 91728, 91800, 91872, 91944, 92016, 92088, 92160, 92232, 92304, 92376, 92448, 92520, 92592, 92664, 92736, 92808, 92880, 92952, 93024, 93096, 93168, 93240, 93312, 93384, 93456, 93528, 93600, 93672, 93744, 93816, 93888, 93960, 94032, 94104, 94176, 94248, 94320, 94392, 94464, 94536, 94608, 94680, 94752, 94824, 94896, 94968, 95040, 95112, 95184, 95256, 95328, 95400, 95472, 95544, 95616, 95688, 95760, 95832, 95904, 95976, 96048, 96120, 96192, 96264, 96336, 96408, 96480, 96552, 96624, 96696, 96768, 96840, 96912, 96984, 97056, 97128, 97200, 97272, 97344, 97416, 97488, 97560, 97632, 97704, 97776, 97848, 97920, 97992, 98064, 98136, 98208, 98280, 98352, 98424, 98496, 98568, 98640, 98712, 98784, 98856, 98928, 99000, 99072, 99144, 99216, 99288, 99360, 99432, 99504, 99576, 99648, 99720, 99792, 99864, 99936, 100008, 100080, 100152, 100224, 100296, 100368, 100440, 100512, 100584, 100656, 100728, 100800, 100872, 100944, 101016, 101088, 101160, 101232, 101304, 101376, 101448, 101520, 101592, 101664, 101736, 101808, 101880, 101952, 102024, 102096, 102168, 102240, 102312, 102384, 102456, 102528, 102600, 102672, 102744, 102816, 102888, 102960, 103032, 103104, 103176, 103248, 103320, 103392, 103464, 103536, 103608, 103680, 103752, 103824, 103896, 103968, 104040, 104112, 104184, 104256, 104328, 104400, 104472, 104544, 104616, 104688, 104760, 104832, 104904, 104976, 105048, 105120, 105192, 105264, 105336, 105408, 105480, 105552, 105624, 105696, 105768, 105840, 105912, 105984, 106056, 106128, 106200, 106272, 106344, 106416, 106488, 106560, 106632, 106704, 106776, 106848, 106920, 106992, 107064, 107136, 107208, 107280, 107352, 107424, 107496, 107568, 107640, 107712, 107784, 107856, 107928, 108000, 108072, 108144, 108216, 108288, 108360, 108432, 108504, 108576, 108648, 108720, 108792, 108864, 108936, 109008, 109080, 109152, 109224, 109296, 109368, 109440, 109512, 109584, 109656, 109728, 109800, 109872, 109944, 110016, 110088, 110160, 110232, 110304, 110376, 110448, 110520, 110592, 110664, 110736, 110808, 110880, 110952, 111024, 111096, 111168, 111240, 111312, 111384, 111456, 111528, 111600, 111672, 111744, 111816, 111888, 111960, 112032, 112104, 112176, 112248, 112320, 112392, 112464, 112536, 112608, 112680, 112752, 112824, 112896, 112968, 113040, 113112, 113184, 113256, 113328, 113400, 113472, 113544, 113616, 113688, 113760, 113832, 113904, 113976, 114048,

PART 3 - EXECUTION REQUIREMENTS

3. GENERAL INSTALLATION REQUIREMENTS

- A. Before work commences, schedule a preconstruction meeting with Owner, General Contractor, and Landscape Architect to discuss general details of the work.
- B. Verify dimensions and grades at job site before work is commenced.
- C. During the progress of the work, a competent superintendent and any assistants necessary shall be on-site at all installation of the Owner. The superintendent shall not be engaged except with consent of Owner. All other persons present, including those to be employed, the superintendent shall represent the Contractor in his absence and all decisions given by the superintendent shall be as binding as if given by Contractor.
- D. Work indicated or noted on Drawings shall be provided whether or not specifically mentioned in the Specifications.
- E. If there are ambiguities between Drawings and Specifications, and specific interpretation or clarification is not issued prior to bidding, the interpretation or clarification will be made only by Owner, and Contractor shall comply with the decisions. In the event the installation contradicts the drawings given, the installation shall be corrected by Contractor or to additional costs to Owner.
- F. Layout of sprinkler lines shown on Drawings is diagrammatic. Location of sprinkler equipment is contingent upon and subject to integration with other equipment utilities. Contractor shall verify all data contained in the Contract Documents and shall verify this information at the construction site to confirm the manner by which it relates to the installation.
- G. Coordinate the installation of all sprinkler materials, including pipe, with the Landscape Drawings to avoid conflict with the trees, shrubs, or other planting material.
- H. Do not proceed with the installation of the sprinkler system when it is apparent that obstructions or grade differences exist or if conflict in construction details, legend, or specific notes are discovered. All such obstructions, conflicts, or discrepancies shall be brought to the attention of Owner's Authorized Representative.

- I. Reduces, or repair to the satisfaction of Owner, all existing paving disturbed during the course of this work. Work shall be done in same type, shape, texture, finish, and be equal in every way to the material removed.
- J. Owner retains the right to make temporary repairs as necessary to keep equipment in operating condition while working. Only Contractor or authorized relieving Contractor is responsible during the guarantee shall not be affected.
- K. Sprinkler heads will require installation of anti-rain devices to prevent head drainage.
- L. Coordinate the installation of all sprinkler materials, including pipe, with the Landscape Drawings to avoid conflict with the trees or other planting.

- 1. Reduces, or repair to the satisfaction of Owner, all existing paving disturbed during the course of this work. Work shall be done in same type, shape, texture, finish, and be equal in every way to the material removed.
- J. Owner retains the right to make temporary repairs as necessary to keep equipment in operating condition while working. Only Contractor or authorized relieving Contractor is responsible during the guarantee shall not be affected.
- K. Sprinkler heads will require installation of anti-rain devices to prevent head drainage.
- L. Coordinate the installation of all sprinkler materials, including pipe, with the Landscape Drawings to avoid conflict with the trees or other planting.

3.2 OBSERVATION OF SITE CONDITIONS

- A. Scaled dimensions are approximate. The Contractor shall check and verify all size dimensions and receive approval from the Owner's Authorized Representative prior to proceeding with work under the Section.
- B. Exercise extreme care in excavating and working near existing utilities. The Contractor shall be responsible for damages to utilities, which are caused by its operations or neglect. Check existing utilities drawings for exact utility locations.
- C. Coordinate installation of sprinkler irrigation materials including pipe, shrubs, and ground covers.
- D. The Contractor shall carefully check all grades to satisfy that they be fully marked, proceed before starting work on the irrigation system. Any discrepancies between the drawings and actual site conditions shall be brought to the attention of the owner prior to proceeding with the work.

3.3 PREPARATION

- A. Physical Layout:
 - 1. Prior to installation, the Contractor shall stake out all pressure supply lines, routing and location of sprinkler heads.
- B. Water Supply:
 - 2. Layouts shall be reviewed by the Owner's Authorized Representative prior to installation.
- C. Connections shall be made at the approximate location(s) shown on the Drawings. The Contractor is responsible for minor changes caused by actual site conditions.
- D. Electrical Supply:
 - 1. Electrical connections for any air conditioning controllers shall be made to electrical panels at locations as indicated on the Drawings.
 - 2. Connections shall be made at the approximate location(s) shown on the Drawings. The Contractor is responsible for minor changes caused by actual site conditions.

3.4 INSTALLATION

- A. Trenching:
 - 1. Dig trenches straight and support pipe continuously on bottom of trench. Lay pipe to an even grade. Trenching excavation shall follow layout indicated on the Drawings and as noted.
 - 2. Provide for a minimum of eighteen (18) inches cover for all pressure supply lines of two and one-half (2 1/2) nominal diameter or smaller.
 - 3. Provide for a minimum of twenty-four inches (24) cover for all pressure supply lines of three-inch (3) nominal diameter or larger.
 - 4. Provide for a minimum of twelve inches (12) for all non-pressure lines.
 - 5. Provide for a minimum cover of eighteen inches (18) for all controlling piping.
 - 6. Provide for a minimum cover of eighteen inches (18) for all communication cable conduits.
- B. Backfilling:
 - 1. The trenches shall not be backfilled until all required tests are performed. Trenches shall be carefully backfilled with the excavated materials applied for backfilling, consisting of earth, loam, sandy clay, sand, or other approved materials, free from large objects of earth, stones, basalt or any mechanically composed or landscaped areas to a dry density equal to adjacent undisturbed soil in draining areas. Backfill will conform to adjacent grades without gaps, voids, areas, lumps or other surface irregularities.
 - 2. A fine granular material backfill will be initially placed on all lines. No foreign matter larger than one-half (1/2) inch (1/2) in size will be permitted in the initial backfill.
 - 3. Backfilling of trenches will be permitted only with approval of the Owner's Authorized Representative.
 - 4. If settlement occurs and necessitates adjustments in pipe, valves, sprinkler heads, lawn, plantings, or other installed work, the Contractor shall make all required adjustments without cost to Owner.
 - 5. Trenching and Backfill Under Paving:
 - 1. Trenches located under areas where paving, asphaltic concrete, or concrete will be installed, shall be backfilled with sand to a depth six inches (6) below the pipe and three inches (3) above the pipe and compacted to 95% compaction using manual or mechanical tamping devices. Trenches for piping shall be compacted to equal the compaction of the existing adjacent areas and shall be backfilled in firm, unyielding condition. Trenches shall be left flush with the adjoining grade. The Contractor shall set in block-top and pressure seal all pipes under paving prior to the paving work.
 - 2. Generally, paving under existing walks is done by jacking, boring, or hydraulic driving, but where any cutting or breaking of sidewalks and/or concrete is necessary, it shall be done and replaced by the Contractor as a part of the Contract. Note: Permission to cut or break sidewalks and/or concrete shall be obtained from the Owner's Authorized Representative. No hydraulic driving will be permitted under concrete paving.

- 3. Provide for a minimum cover of eighteen inches (18) between the top of the pipe and the bottom of the aggregate base for all pressure and non-pressure piping installed under asphaltic concrete paving.
- 4. PVC Pipe and Fittings:
 - 1. Install PVC pipe and fittings in accordance with manufacturer's recommendations.
 - 2. Install sprinkler heads on PVC pipe as indicated on Drawings.
 - 3. Prepare of solder-and-lead joints with manufacturer's primer prior to applying solder.
 - 4. Allow soldered-joint pipes at least 15 minutes de-solvoling time before moving or handling.
 - 5. Partially center-bore pipe as trenches to prevent warping and shifting when water pressure is on.
 - 6. Do not paint work in pipe until a period of at least four (4) hours has elapsed for solvent/welding fumes to dissipate, and prior to installation of sprinkler heads to solvent manufacturer.
 - 7. Attach pipe identification tags directly to pipe as specified in SBWR regulations, where color-monomer and sleeved pipe is not utilized.
- 5. Do backfilling when pipes are laid.
- 6. Curing:
 - 1. When the temperature is above 80°F, allow de-solvented joints at least 24 hours curing the time before water is introduced under pressure.
 - 2. When temperature is below 80°F, allow manufacturer's recommendations.
- A. Solderless:
 - 1. Reading of sprinkler heads is indicated on the Drawings is diagrammatic. Install lines (and valves assemblies) in such a manner as to conform to the details per the Drawings.
 - 2. Install NO multiple assemblies in plastic lines. Provide each assembly with its own outlet.
 - 3. Install all assemblies specified herein in accordance with respective detail. In absence of detail drawings or Specifications pertaining to specific items required to complete work, perform such work in accordance with best standard practice with prior approval of Owner's Authorized Representative.
 - 4. PVC pipe and fittings shall be thoroughly cleaned of dirt, dust, and moisture before installation. Installation and solvent welding methods shall be as recommended by the pipe and fitting manufacturer.
 - 5. On PVC to metal connections, the Contractor shall work to metal connections first. Yellow tape or approved equal, shall be used on all threaded PVC to PVC, and on all threaded PVC to metal joints. 1/2" air wrench pressure is all that is required. Where threaded PVC connections are required, use threaded PVC adapters and which the pipe may be welded.
 - 6. F. Couplings and Sleeves:
 - 1. Coupling: Spacing shall be considered existing only when installed under another contract. For all other installations, provide material and conditions consult and sleeve installation with other trades as required to make smooth construction sequences.
 - 2. Couplet: Furnish and install coulets where control valves pass under or through walls, walks and paving. Coulets to be of adequate size to accommodate removal for repair of wiring and shall extend 12 inches beyond edge of walls and pavement.
 - 3. Sleeve: 1/2" minimum for all pipes passing through or under walls and paving as shown on the Drawings. Sleeve to be of adequate size to accommodate removal of wiring and shall extend 12 inches beyond edge of paving or other construction.
 - 7. G. Line Clearance:
 - 1. All lines shall have a minimum clearance of six inches (6") from each other and from lines of other trades. Parallel lines shall not be installed directly one over another.
- K. Weather Sensitive Irrigation Controller Setup, Schedule and Program:
 - 1. Preliminary irrigation controller setup, schedule and program shall be provided by the installing contractor through the client's established period.
 - 2. At the end of the plant establishment period and turnover of the project, the irrigation controller setup, scheduling and programming shall become the responsibility of the landscape maintenance contractor.
- L. Electric Control Valves and master valves:
 - 1. Install electric control valves and master valves where shown on the Drawings, where grouped together with other valve boxes, allow at least twelve inches (12) between adjacent valve boxes.

- 2. Provide identification tags to electric control valves. Electric control valves shall be connected to controller in numerical sequence as shown on the Drawings.
- 3. Each valve number shall be hand marked on valve box cover and one-half (1/2) inch (1/2) tall letters. Master valve box covers shall be hand-branded with the Contractor assignment. Branding unit available from Hydroscape Products, Inc. and master number (714) 628-1850.
- 4. Provide recycled water warning tags to electric control valves and master valves as indicated in the drawings.
- 5. Quick Coupling Valves:
 - 1. Locate and install quick coupling valves as indicated in the drawings.
 - 2. Provide recycled water warning tags to quick coupling valves and master valves as indicated in the drawings.
- N. Ball Valves:
 - 1. Locate and install ball valves as indicated in the drawings.
- O. Check Valves:
 - 1. Locate and install check valves of the size and type as indicated in the drawings.
 - 2. Provide and install additional check valves as directed by the Owner's Authorized Representative to prevent and minimize low head drainage after shut down of irrigation system.
- P. Flushing of System:
 - 1. After all new sprinkler pipelines and risers are in place and connected, all necessary check work has been completed, and prior to installation of sprinkler heads, the control valves shall be opened and full head of water used to flush out the system.
 - 2. Sprinkler heads shall be installed only after flushing of the system has been accomplished to the complete satisfaction of the Owner's Authorized Representative.
- Q. Solder Heads:
 - 1. Install the sprinkler heads as designated on the Drawings. Sprinkler heads to be installed in wet soil shall be equivalent in all respects to those listed.
 - 2. Spacing of heads shall not exceed the maximum indicated on the Drawings. In no case shall plant establishment be in accordance with respective detail. In absence of detail drawings or Specifications pertaining to specific items required to complete work, perform such work in accordance with best standard practice with prior approval of Owner's Authorized Representative.
 - 3. Sprinkler heads shall be perpendicular to finish grade of the area to be irrigated unless otherwise specified on the Drawings.
- S. In-Line Drop Irrigation System:
 - 1. Verify existing field dimensions of the area to be irrigated with the irrigation plans for accuracy. Begin dripper tubing layout 2' to 3' away from both north-south lines, corners, easements, walls, roads, and/or existing structures, etc., around all buildings. Mark tubing marks on the ground with flags, paint, or some other markings that can be removed without the installation.
 - 2. Dripper tubing shall be installed per irrigation construction details as shown on drawings.
 - 3. Install underground piping horizontally and as level as possible to a minimum depth of 3' and maximum depth of 5' unless otherwise specified. Optimum pipe depth is 4'.
 - 4. As much as possible, supply and exhaust headers shall be installed perpendicular to contours.
 - 5. As much as possible, dripper tubing shall be installed parallel with contours.
 - 6. Dripper tubing can be installed with the water column being upward or downward. Place dripper outlets in such a manner as to form a triangular pattern between parallel tubing lines. In irregular areas, some water outlets may need to be close to the improvements and may have to be capped with a dripper plug/riser.
 - 7. Connect dripper tubing to barbed fittings by pushing on and over both ends until the tubing has seated against another piece of tubing. Inserted segments and/or ends of the barbed fitting. For water pressures in excess of the 45 psi, use stainless steel clamps as noted in paragraph 3. "Pipe Clamping" on all barbed fittings.
 - 8. When design operating pressure exceeds 45 psi, stainless steel pipe clamps shall be used. Slip clamps over tubing before adding tubing over metal barbed fitting. Place clamp between the fittings and secure ridge of the barbed fitting and crop the "ear" of the clamp lightly. Crop the "ear" back to the curve proper setting.
 - 9. Install a pressure regulator below grade, downstream, and in line with the remote control valve. Whenever possible, place the pressure regulator in the same valve box location for remote inspection. Place the regulator with the flow indicated on the side of the body pointing in the direction of the flow of water. Provide straight tubing on the outside of the regulator for a diameter no less than three lengths of the overall body dimension.
 - 10. Install the disc filter horizontally below grade and before and after the remote control valve as indicated in the installation details. The position of the disc filter in the valve box shall be suitable to allow for removal of the disc filter for periodic servicing. Refer to the installation details for the size of the valve box.
 - 11. Install the airvacuum relief valve below grade and at the highest elevation within each zone. Depending on the valve condition, substitute the airvacuum relief valve with a 1/2" x 3/4" SCH 40 PVC reduction bushing and thread this assembly into a 1/2" x 1/2" x 3/4" SCH 40 PVC tee. Place the valve within a round valve box with a backing cover and a 1 cu. Ft. 3/4" gravel surge as noted on the details. Additional flow: backfill tubing may be necessary when design the dripper tubing along on mounds or berms with more than a 3' elevation difference. Blank tubing layout shall be completed perpendicular to the dripper tubing with marked lines from the lowest elevation of dripper tubing to the highest point of the mound where the airvacuum relief valve is located. This airvacuum relief valve serves to collect and transport trapped air bubbles or release vacuum in lower elevation dripper tubing parallel to the dripper tubing located at the high point in the system. Locate an airvacuum relief valve lateral for each berm within the system.
 - 12. Prior to backfilling and before connection of the line flushing valves. Flush the entire system in reverse or any set of sediments that may have entered the system during the installation.
 - 13. The line flushing valve horizontally level and below grade at the hydraulic hammering joints in each system. Locate air valves on the back-slope of the air valve facing upward. Include a minimum of 1 cu. Ft. of 3/4" expanded rock in the bottom of the valve box per construction detail.
 - 14. Prior to backfilling, open the remote control valve and operate each circuit to check for leakage around both barbed and threaded PVC fittings. Make necessary corrections to stopleaks.
 - 15. Repeat those systems where leaks were corrected before commencing backfilling operations.

- 3. TEMPORARY REPAIRS:
 - The Owner reserves the right to make temporary repairs as necessary to keep the irrigation system equipment in operating condition. The exercise of this right by the Owner shall not relieve the Contractor of his responsibilities under the terms of the guarantee or warranty specified.
- 3.6 EXISTING TREES:
 - A. Where it is necessary to excavate adjacent to existing trees, the Contractor shall use all possible care to avoid injury to trees and tree roots. Excavation in areas where two-inch (2") and larger roots occur shall be done by hand. Roots two inches (2") and larger in diameter, except directly in the path of pipe or conduit, shall be turned under and shall be heavily supported with burlap to prevent erosion and soil compaction. Where a tree's root system runs close to trees having roots smaller than two inches (2") in diameter, the wall of the trench shall be backfilled with soil to support the roots. Where a tree's root system is within one foot (1') and larger in diameter shall be paired with two coats of Tree Seal or equal. Trenches dug down to a depth of 24 inches (24") shall be backfilled with soil and where it is possible, the side of the trench adjacent to the tree shall be kept shaded with burlap or canvas.
- 3.7 FIELD QUALITY CONTROL:
 - A. Adjustment of the System:
 - 1. The Contractor shall flush and adjust all sprinkler heads for optimum performance and to prevent overspray onto walks, roadways, and buildings as much as possible.
 - 2. If it is determined that adjustments in the irrigation equipment will provide proper and more adequate coverage, the Contractor shall make such adjustments prior to planting. Adjustments may also include changes in nozzle sizes and degrees of arc as required.
 - 3. Lowering raised sprinkler heads by the Contractor shall be accomplished within 10 (10) days after installation by the Owner.
 - 4. Sprinkler heads shall be perpendicular to finished grades unless otherwise designated on the Drawings.

- B. Testing of the Irrigation System:
 - 1. The Contractor shall not begin the presence of the Owner's Authorized Representative in writing at least 48 hours in advance of testing.
 - 2. Test all pressure lines under hydrostatic pressure of 150 pounds per square inch and prove watertight. No pipe shall be backfilled until it has been observed, tested, and approved in writing.
 - 3. Note: Testing of pressure main lines shall occur prior to installation of the electric control valves.
 - 4. Flushing under paved areas shall be under hydrostatic pressure of 150 pounds per square inch and prove watertight prior to determining the water coverage for planting areas.
 - 5. Test pressure in lines for not less than two (2) hours. If leaks develop, stop pipes and repeat test until entire system is proven watertight.
 - 6. Hydrostatic tests shall be made only in the presence of the Owner's Authorized Representative. No pipe shall be backfilled until it has been observed, tested, and approved in writing.
 - 7. Furnish necessary force pump and all other test equipment.
- C. When the irrigation system is completed, perform a coverage test in the presence of the Owner's Authorized Representative to determine if the water coverage for planting areas is complete and adequate. The coverage test shall be accomplished using a contractor furnished radio remote receiver and transmitter to turn each control valve on to observe sprinkler coverage and then to read the control valve of when coverage test of that system is complete. Furnish all materials and perform all work required to correct any inadequacies of coverage due to variations from the Drawings, or where the system has been fully installed as indicated on the Drawings when it is obviously inadequate. Without limiting this to the attention of the Owner's Authorized Representative. This test shall be accomplished before any ground cover is placed.
- 8. Upon completion of each phase of work, the entire system shall be tested and adjusted to meet all requirements. The contractor shall provide an irrigation water schedule for plant establishment as well as any subsequent schedule changes for review and approval by owner. Approval of irrigation schedule includes only the schedule for plant establishment. The final irrigation schedule shall be established on the basis of the information submitted. Any adjustments to the schedule shall be plans after all water needs or changes in weather conditions shall be the responsibility of the contractor.

- 3.8 MAINTENANCE:
 - A. The entire irrigation system shall be under full automatic operation for a period of seven (7) days prior to any planting.
 - B. The Owner's Authorized Representative reserves the right to waive or shorten the operation period.
- 3.9 CLEANUP:
 - A. Cleanup shall be made as each portion of work progresses. Refuse and excess dirt shall be removed from the site. All walks and drives shall be broomed or washed down, and any damage caused by the work of others shall be repaired to original conditions.
- 3.10 FINAL SITE OBSERVATION REPORT TO ACCEPTANCE:
 - A. The Contractor shall complete each system in its entirety for the Owner's Authorized Representative at time of final observation. Any items deemed not acceptable by the Owner's Authorized Representative shall be reworked to the complete satisfaction of the Owner's Authorized Representative.
 - B. The Contractor shall provide evidence to the Owner's Authorized Representative that the Owner has received all accessories, manuals, records, drawings, and equipment as required before final observation occurs.
- 3.11 SITE OBSERVATION SCHEDULE:
 - A. The Contractor shall be responsible for notifying the Owner's Authorized Representative in advance for the following observation meetings, according to the time indicated:
 - 1. Pre-bid Conference - seven (7) days
 - 2. Pressure supply line installation and testing - 48 hours
 - 3. Irrigation controller installation - 48 hours
 - 4. Irrigation controller activation and scheduling - 48 hours
 - 5. Remote valve installation - 48 hours
 - 6. Lateral line and sprinkler installation - 48 hours
 - 7. Plant of construction installation - 48 hours
 - 8. Master Valve, basket strainer and flow sensor installation - 48 hours
 - 9. Pressure sensor conduit installation - 48 hours
 - 10. Coverage test - 48 hours
 - 11. Final site observation - seven (7) days
 - B. When site observations have been conducted by a party other than the Owner's Authorized Representative, allow evidence in writing of when and why these observations were made.
 - C. Prior to walking irrigation system with Owner's Authorized Representative, the Contractor shall pre-walk irrigation system with its own crew to ensure compliance with plans and specifications. The Contractor shall observe these items shown on the construction observation checklist below and initial and date that all items observed are in accordance with plans and specifications. This list shall be presented to the Owner's Authorized Representative prior to the final installation walkthrough with the Owner's Authorized Representative.
 - D. No site observations will be conducted without record drawings or Construction Observation Check List. In the event the Contractor calls for a site visit without record drawings or Construction Observation Check List, without completing necessary record conditions, or without preparing the system for site visit, it shall be responsible for reimbursing the Owner's Authorized Representative at its current hourly billing rate, partial or partial day (after transportation costs), for the non-coverage. No further site observations will be scheduled until the change has been paid and reviewed.
 - E. The following field test and accuracy form shall be prepared with the Contractor's permission. The form shall be completed by the contractor and sent to the site of the information shown on the sample checklist form shown on this page.



COPYRIGHT RESERVED
 OWNERSHIP, COPYRIGHTS AND USE OF DRAWINGS, DOCUMENTS, SPECIFICATIONS AND NOTES THEREON FURNISHED BY ICON ATLENTA, INC. ARE AND SHALL REMAIN ITS PROPERTY. THEY ARE TO BE USED ONLY WITH RESPECT TO THE PROJECT, FEDERAL LAW, PROHIBITS THE REPRODUCTION, QUALITY, SALE OR OTHER DISPOSITION OF THIS DOCUMENT WITHOUT THE EXPRESS WRITTEN PERMISSION OF ICON ATLENTA, INC. ALL RIGHTS RESERVED.

CLIENT
B&K ROAD SERVICE
 15420 JACKSON DRIVE,
 FONTANA, CA 92336

PROJECT
PROPOSED TRUCK TIRE REPAIR SHOP
 15511 HOPKIN AVE. #2,
 FONTANA, CA 92327



ASSOCIATE CONSULTANTS



DATE: 08.24.2023
 DRAWN: BFM
 REVISION: BFM
 PROJECT NO: 16/0121/001
 SCALE: AS SHOWN

DATE	DESCRIPTION	DELTA
08.24.23	1ST PC RESPONSE	SUBMITTAL

SHEET TITLE
IRRIGATION SPECIFICATIONS

SHEET NO.
L - 1.4



CONSULTANT
ICON ATELIER INC.
 TEL: (714) 841-0625
 icona@icona.com

COPYRIGHT RESERVED
 OWNERSHIP, COPYRIGHTS AND USE OF DRAWINGS, DOCUMENTS, SPECIFICATIONS AND COPIES THEREOF FURNISHED BY ICON ATELIER INC. ARE AND SHALL REMAIN ITS PROPERTY. THESE ARE TO BE USED ONLY WITH RESPECT TO THE PROJECT, FEDERAL LAW PROHIBITS THE REPRODUCTION OF THIS DOCUMENT WITHOUT THE EXPRESS WRITTEN CONSENT OF ICON ATELIER INC. ALL RIGHTS RESERVED.

CLIENT
B&K ROAD SERVICE
 15480 JACKSON DRIVE,
 FONTANA, CA 92336

PROJECT
PROPOSED TRUCK TIRE REPAIR SHOP
 15511 BOYLE AVENUE,
 FONTANA, CA 92337

SCALE AND STAMP



ASSOCIATE CONSULTANTS

DEPARTMENT OF PUBLIC WORKS

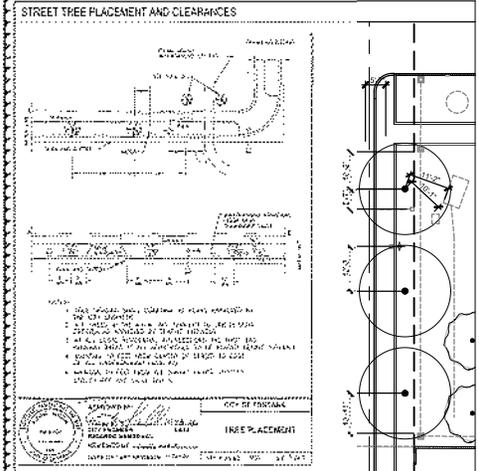
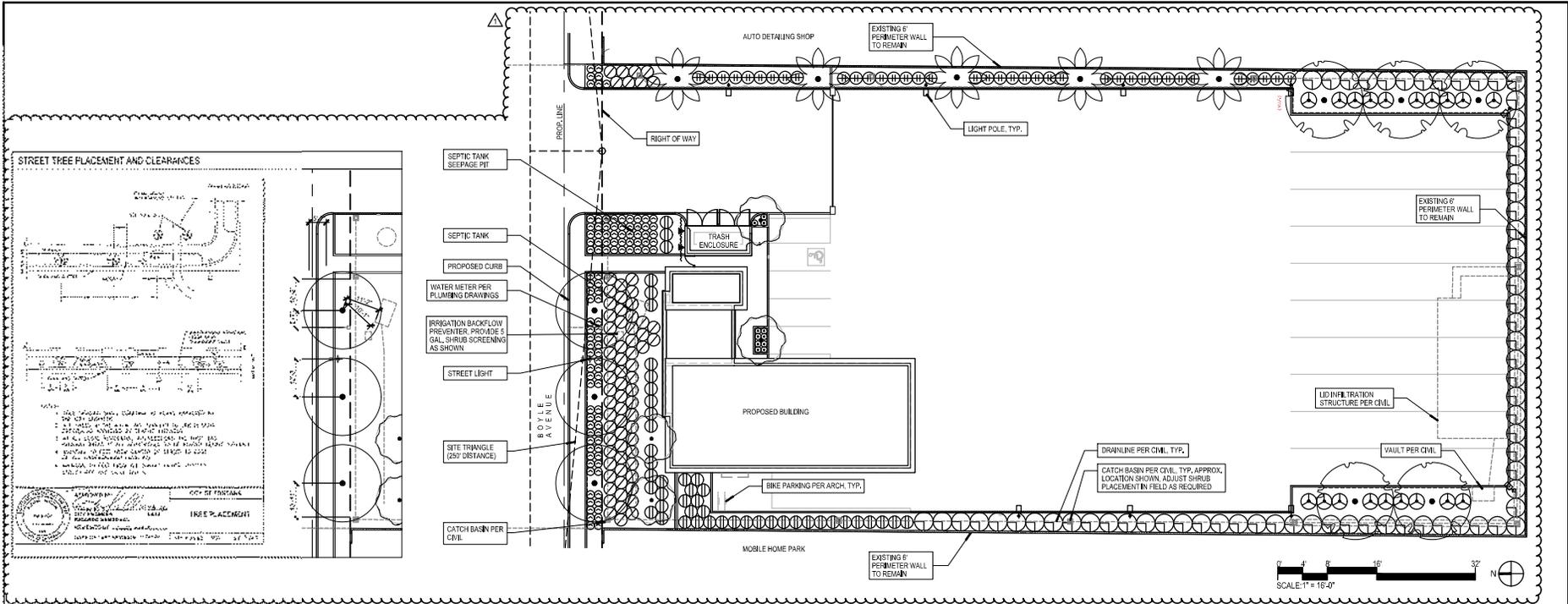
SITE DESIGN STUDIO

DRAWINGS ISSUE
 DATE DESCRIPTION DELTA
 08.24.23 1ST PC RESPONSE SUBMITTAL

DATE: 08.24.2023
 DRAWN: BFM
 REVIEWED: BFM
 PROJECT NO: 160121/001
 SCALE: AS SHOWN

SHEET TITLE
PLANTING PLAN

SHEET NO.
L - 2.0



GENERAL PLANTING NOTES

1. VERIFY LOCATION AND DEPTH OF ALL UNDERGROUND UTILITIES PRIOR TO START OF WORK.
2. CONTRACTOR SHALL APPLY A CONTACT HERBICIDE WHERE WEEDS ARE PRESENT PER MANUFACTURERS SPECIFICATIONS A MINIMUM OF TEN (10) DAYS PRIOR TO COMMENCEMENT OF ANY PLANTING OR IRRIGATION WORK. WEEDS SHALL BE ALLOWED TO COMPLETELY DIE BACK, INCLUDING THE ROOTS BEFORE PROCEEDING WITH WORK.
3. REMOVE WEEDS AND GRASSES AND PROPERLY DISPOSE OF WASTE AT A LICENSED DUMP SITE.
4. LANDSCAPE CONTRACTOR TO PROVIDE THE FOLLOWING SUBMITTALS FOR REVIEW AND APPROVAL:
 1. SOILS REPORT (SEE SHEET L-2.0)
 2. PHOTOGRAPHS OF PLANT MATERIAL 15 GALLON AND SMALLER (SHRUBS) WITH NURSERY LOCATION
 3. PHOTOGRAPHS OF TREES WITH DIMENSIONS AND NURSERY LOCATION FOR TAGGING
 4. CUTSHEETS OF ALL PROPOSED DRY GOOD MATERIALS INCLUDING BUT NOT LIMITED TO TREE STAKES.
5. NO SUBSTITUTIONS FOR PLANT MATERIAL SHALL BE MADE WITHOUT PRIOR WRITTEN APPROVAL BY THE LANDSCAPE ARCHITECT. IF SPECIFIED PLANTS ARE UNAVAILABLE, CONTRACTOR SHALL PROVIDE ALTERNATIVE AVAILABLE SIZE OR SPECIES FOR CONSIDERATION.
6. INSTALL BROODGRADABLE OPEN WEAVE JUTE MESH IN ALL LANDSCAPE AREAS EXCEEDING 4% SLOPE.
7. LANDSCAPE ARCHITECT SHALL HAVE THE OPPORTUNITY TO INSPECT AND APPROVE ALL SPECIMEN AND BOX MATERIALS AT JOB SITE PRIOR TO PLANTING. ALL UNACCEPTABLE MATERIAL SHALL BE REMOVED FROM JOB SITE AND REPLACED WITH ACCEPTABLE MATERIAL AT CONTRACTOR'S EXPENSE.
8. LANDSCAPE ARCHITECT SHALL APPROVE FINAL PLACEMENT OF TREES PRIOR TO PLANTING. CONTRACTOR SHALL GIVE AT LEAST THREE (3) BUSINESS DAYS NOTICE FOR PLANT LAYOUT APPROVAL.
9. LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL THEY OR DAMAGE TO PLANT MATERIAL ONCE PLANT MATERIAL IS DELIVERED TO THE JOB SITE. PROVIDE PROPER MEASURES TO SECURE AND PROTECT MATERIAL.
10. A REPRESENTATIVE OF THE BOTANICAL NAME TAGS, FURNISHED BY THE NURSERY STOCK SUPPLIER, SHALL REMAIN ATTACHED TO THE PLANTS UNTIL FINAL INSPECTION.
11. AFTER PLANTING IS COMPLETE BUT PRIOR TO INSTALLING BARK MULCH OR AGGREGATE MULCH, APPLY GRANULAR FERTILIZER/SMITHITE AT MANUFACTURER SUGGESTED RATE. PENICILLUM, BONAFON, OR SNAPSHOT IN ALL SHRUB AND GROUND COVER AREAS. APPLY 1" MIN. LAYER OF MULCH. FOREST BLEND BY WOLFENBARGER'S BROS-27487.
12. KEEP MULCH 1' CLEAR FROM ALL PLANT MATERIAL, EXCEPT ORNAMENTAL GRASSES.
13. ALL AREAS SHALL BE GRADED TO SLOPE TO CATCH BASINS OR FLOW LINES AS INDICATED ON THE CIVIL PLANS OR AS DIRECTED BY THE LANDSCAPE ARCHITECT. SOIL SHALL BE 1.5' BELOW ADJACENT HEADERS AND PAVING IN GROUND COVER AREAS.
14. UPON COMPLETION OF ALL PLANTING OPERATIONS, THE PORTION OF THE PROJECT USED FOR THE APPARATUS OF THE WORK SHALL BE CLEANED OF ALL DEBRIS, SUPERFLUOUS MATERIAL, AND EQUIPMENT. ALL SUCH MATERIALS AND EQUIPMENT SHALL BE ENTIRELY REMOVED FROM THE PROJECT SITE. PAVING SHALL BE WASHED CLEAN AT THE COMPLETION OF WORK.
15. UPON COMPLETION OF PLANTING, THE CONTRACTOR SHALL ARRANGE FOR A SUBSTANTIAL COMPLETION INSPECTION BY LANDSCAPE ARCHITECT. CONTRACTOR SHALL CORRECT ANY DISCREPANCIES FOUND PRIOR TO FINAL INSPECTION AND ACCEPTANCE OF THE PROJECT.
16. CONTRACTOR SHALL INCLUDE AND PERFORM A 90 DAY MAINTENANCE PERIOD UPON SUBSTANTIAL COMPLETION OF THE ENTIRE SCOPE OF WORK. MAINTENANCE PERIOD IS FOR THE ENTIRE SITE. NO INDIVIDUAL PORTIONS WILL BE RELEASED UNDER A SEPARATE MAINTENANCE PERIOD PRIOR TO WRITTEN APPROVAL. IF PROVIDED.
17. DEAD OR DYING PLANT MATERIAL SHALL BE REPLACED WITHIN ONE WEEK DURING THE MAINTENANCE PERIOD. GUARANTEE: ALL PLANT MATERIAL SHALL BE GUARANTEED FOR REPLACEMENT AFTER FINAL INSPECTION AS FOLLOWS:
 - 15 GAL. AND SMALLER-30 DAYS
 - 24" BOX AND LARGER-90 DAYS
18. UPON FINAL ACCEPTANCE OF THE WORK, THE CONTRACTOR SHALL SUBMIT TO THE OWNER SIGNED ORIGINALS OF ALL MATERIALS AND LABOR RELEASES.
19. PLANT QUANTITIES IN LEGEND ARE FOR REFERENCE ONLY. CONTRACTOR TO PROVIDE AND INSTALL ALL PLANT MATERIAL SHOWN ON PLANS.

SITE AREA CALCULATION

TOTAL SITE AREA:	46,939 SF (LOT AREA)
	-3431 SF (BUL. DING.)
	-203 SF (LOADING ZONE)
	42,895 SF = TOTAL SITE AREA

PLANTING REQUIREMENTS

ITEM	REQUIRED	PROVIDED
MINIMUM LANDSCAPE AREA	15% OF TOTAL SITE AREA 42,905 SF (15% = 6,436 SF)	8,287 SF
MINIMUM # OF TREES	1 TREE / 500 SF OF LANDSCAPED AREA 8,287 SF / 500 SF = 17 TREES	17 TREES
MINIMUM PLANT SIZES	TREES (17 TOTAL) 50% 15 GALLON = 9 TREES 40% 24 INCH BOX = 7 TREES 10% 30 INCH BOX = 1 TREES	TREES 15 GALLON = 0 TREES 24 INCH BOX = 14 TREES 30 INCH BOX = 3 TREES
	SHRUBS (360 TOTAL) 50% 5 GALLON = 180 50% 1 GALLON = 180	SHRUBS 5 GALLON = 184 1 GALLON = 176
STREET TREES IN PARKWAY	1 TREE (24" BOX) WILL PER EACH 30 LF OF STREET FRONTAGE 150 LF = 5 TREES	ONE TO WIDTH OF TRUCK DRIVE AND TURNING RADI 3 TREES ARE PROVIDED IN PARKWAY WITH 2 ADDITIONAL TREES IN ADJUTING YARD (5 TREES TOTAL)

SHRUB AND GROUND COVER LEGEND

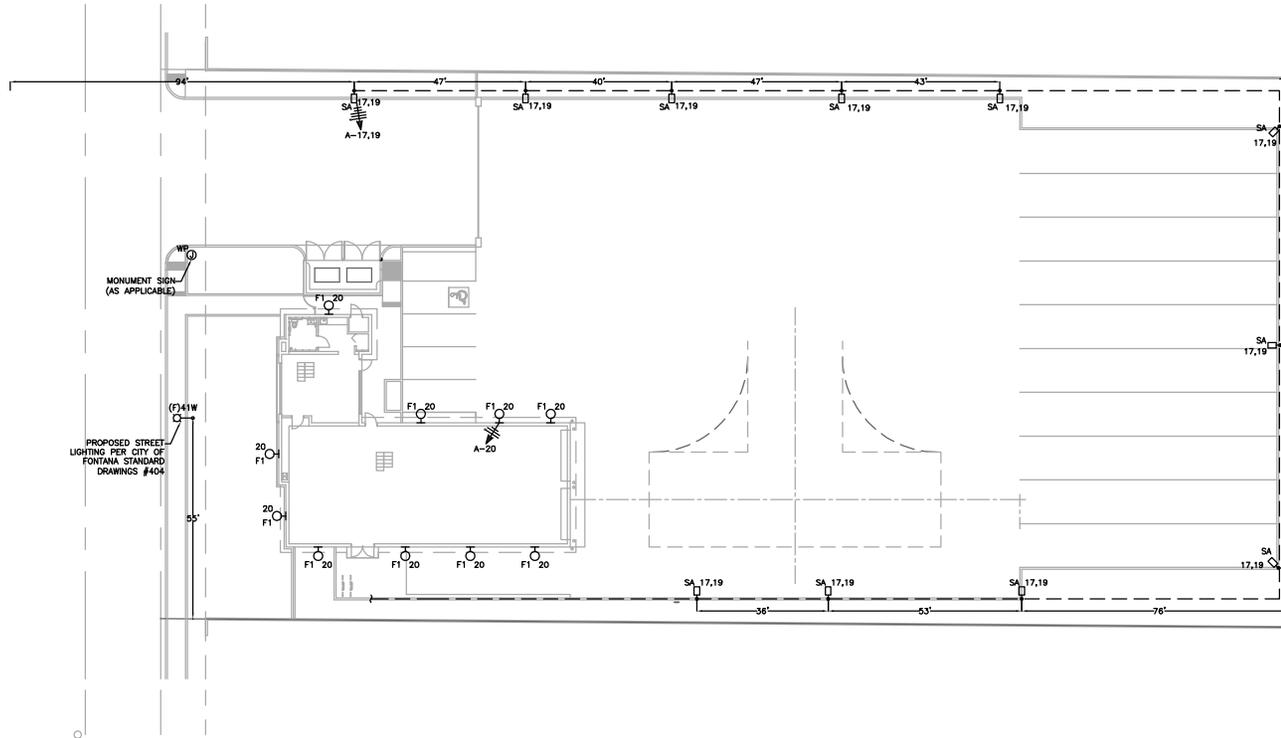
SYMBOL	BOTANIC NAME COMMON NAME	SIZE	QTY.	WATER REQ.	DETAIL
☉	ACACIA REDOLENS 'LOW BOY' PROSTRATE ACACIA	5 GAL	19	LOW	02 / L-2.1
⊙	AMISOZANTHOS 'BUSH DAWN' YELLOW KANGAROO PAW	5 GAL	11	LOW	
⊙	CAREX TUMULUCOLA BERKLEY SEDGE	1 GAL	105	LOW	
⊙	ELEAAGNIUS PLUNGENS 'FRUITLAND' FRUITLAND SILVERBERRY	5 GAL	68	LOW	
⊙	LANTANA SELLOWIANA LANTANA	1 GAL	72	LOW	
⊙	LEUCOPHYLLUM FRUTESCENS 'COMPACTA' COMPACT TEXAS SAGE	5 GAL	48	LOW	
⊙	ROSMARINUS OFFICINALIS 'TUSCAN BLUE' TUSCAN BLUE ROSEMARY	5 GAL	38	LOW	
⊙	MACFADYENA UNGUIS-CATI CATS CLAW VINE	5 GAL	2	LOW	09 / L-2.1

TREE LEGEND

SYMBOL	BOTANIC NAME COMMON NAME	SIZE	QTY.	WATER REQ.	DETAIL
☉	BRACHYCHITON POPULNEUS BOTTLE TREE	24" BOX STD.	5	LOW	07 / L-2.1
☉	CHITRALPA TASH-KENTENSIS CHITRALPA	24" BOX STD.	4	LOW	01 / L-2.1
☉	GLEDITSIA TRIACANTHOS VAR. INERMIS THORNLESS HONEY LOCUST	38" BOX STD.	3	LOW	01 / L-2.1
☉	WASHINGTONIA FILIFERA CALIFORNIA FAN PALM	12" BTH	5	LOW	03 / L-2.1
---	ROOT BARRIER				06 / L-2.1

GENERAL NOTES:

1. ALL EXTERIOR COMMERCIAL DOORS, DURING THE HOURS OF DARKNESS, SHALL BE ILLUMINATED WITH A MINIMUM OF ONE(1) FOOTCANDLE OF LIGHT. ALL EXTERIOR BULBS SHALL BE PROTECTED BY WEATHER AND VANDALISM-RESISTANT COVER(S).
2. OPEN PARKING LOTS, AND ACCESS THERETO, PROVIDING MORE THAN TEN(10) PARKING SPACES AND FOR USE BY THE GENERAL PUBLIC, SHALL BE PROVIDED WITH A MAINTAINING MINIMUM OF ONE(1) FOOTCANDLE OF LIGHT ON THE PARKING SURFACE FROM DUSK UNTIL THE TERMINATION OF BUSINESS EVERY OPERATING DAY.
3. ALL COMMERCIAL AND INDUSTRIAL BUILDINGS MUST DISPLAY, ON THE ROOF, THE ADDRESS OF THE BUILDING. IF THE BUILDING IS SUBDIVIDED INTO A MULTI-USE WITH A COMMON ROOF, EACH USE MUST BE IDENTIFIED WITH A NUMBER, LETTER, OR ITS INDIVIDUAL ADDRESS IS REQUIRED.



① EXTERIOR LIGHTING PLAN
SCALE: 1/16"=1'-0"

FOR REFERENCE ONLY



CONSULTANT
ICON ATELIER INC.
TEL. (714) 681-0823
iconpak@yahoo.com

COPYRIGHT RESERVED
OWNER'S COPYRIGHTS AND USE OF DRAWINGS, DOCUMENTS, SPECIFICATIONS AND CONTENTS THEREOF PROVIDED BY ICON ATELIER INC ARE AND SHALL REMAIN THE PROPERTY. THEY ARE TO BE USED ONLY WITH RESPECT TO THE PROJECT, FEDERAL LAW PROHIBITS THE REPRODUCTION, DISPLAY, SALE OR OTHER DISPOSITION OF THIS DOCUMENT WITHOUT THE EXPRESS WRITTEN CONSENT OF ICON ATELIER INC. ALL RIGHTS RESERVED.

CLIENT
B&K ROAD SERVICE
15480 JACKSON DRIVE,
FONTANA, CA 92338

PROJECT
**PROPOSED TRUCK
TIRE REPAIR SHOP**
15817 BOYLE AVENUE,
FONTANA, CA 92337

SEAL AND STAMP



ASSOCIATE CONSULTANTS
05.09.23 1ST PC RESPONSE SUBMITTAL
10.14.23 2ND PC RESPONSE SUBMITTAL

DRAWINGS ISSUE
DATE DESCRIPTION DELTA

DATE: 07/19/2023
DRAWN:
REVIEWED:
PROJECT NO:
SCALE:

SHEET TITLE
**EXTERIOR
LIGHTING PLAN**

SHEET NO.
E-2.2



CONSULTANT
ICON ATELIER INC.
 TEL. (714) 661-0823
 iconpak@yahoo.com

COPYRIGHT RESERVED
 OWNERS' COPYRIGHTS AND USE OF DRAWINGS, DOCUMENTS, SPECIFICATIONS AND CONTENTS THEREOF PROVIDED BY ICON ATELIER INC. ARE AND SHALL REMAIN THE PROPERTY. THESE ARE TO BE USED ONLY WITH RESPECT TO THE PROJECT, FEDERAL LAW, STATE OR OTHER APPLICABLE REGULATORY, SALE OR OTHER PROVISIONS OF THE LICENSE OF REGISTERED PROFESSIONAL ENGINEERS, ALL RIGHTS RESERVED.

CLIENT
B&K ROAD SERVICE
 15480 JACKSON DRIVE,
 FONTANA, CA 92338

PROJECT
**PROPOSED TRUCK
 TIRE REPAIR SHOP**
 15817 BOYLE AVENUE,
 FONTANA, CA 92337

SEAL AND STAMP



ASSOCIATE CONSULTANTS

- 05.09.23 1ST PC RESPONSE SUBMITTAL ▲
- 10.14.23 2ND PC RESPONSE SUBMITTAL ▲

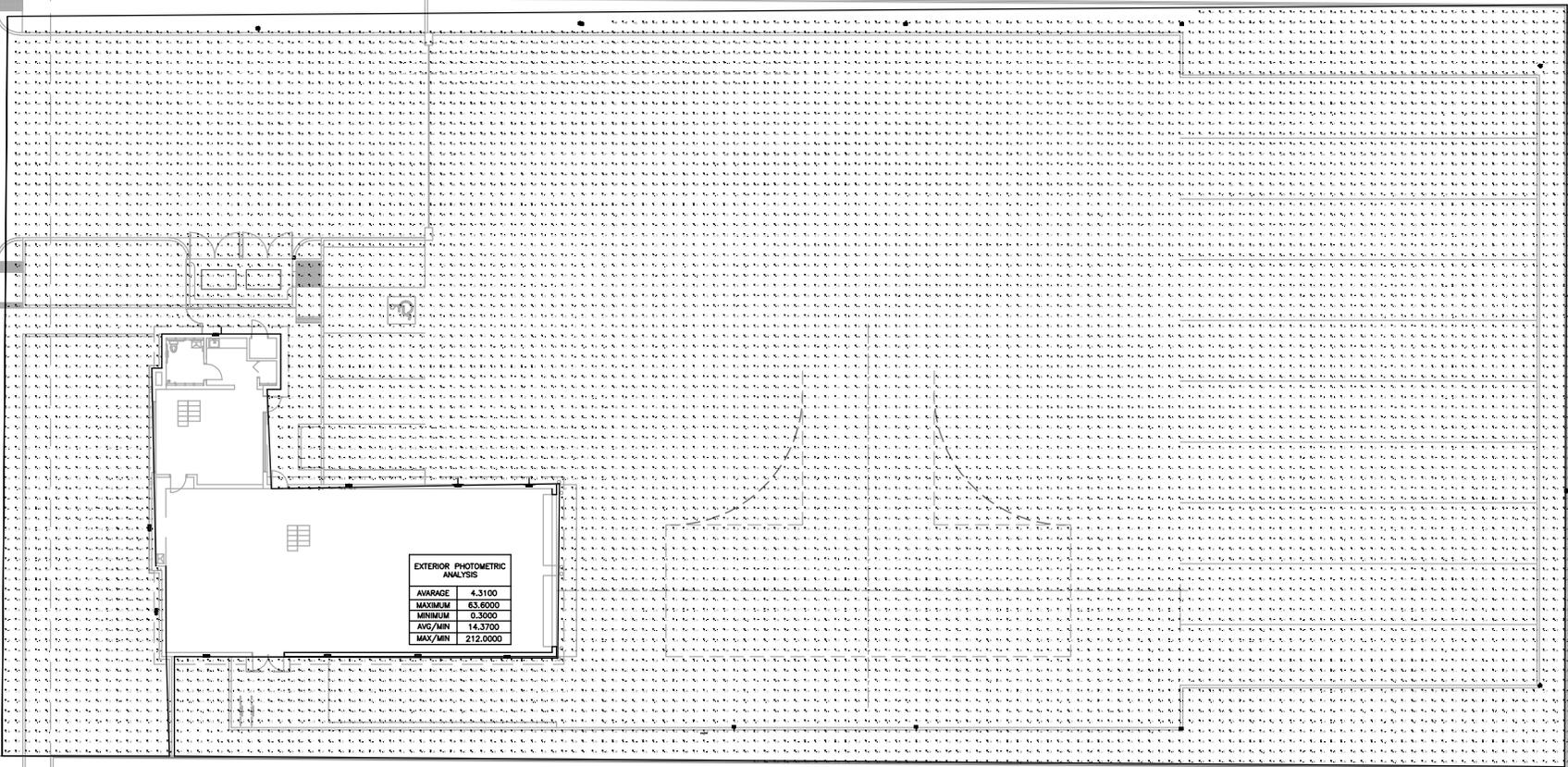
DRAWINGS ISSUE

DATE DESCRIPTION DELTA

DATE: 07/19/2023
 DRAWN:
 REVIEWED:
 PROJECT NO:
 SCALE:

SHEET TITLE
**PHOTOMETRIC
 STUDY**

SHEET NO.
E-3.2



① PHOTOMETRIC STUDY
 SCALE: 3/32"=1'-0"

FOR REFERENCE ONLY