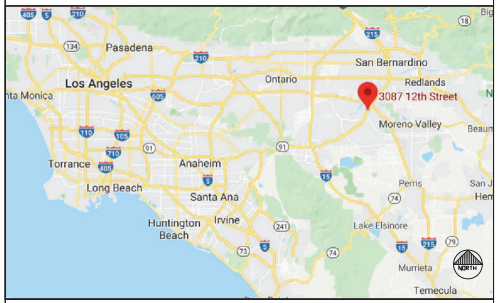
# 3087 12TH STREET, RIVERSIDE, COUNTY OF RIVERSIDE, CA
# PARKING FACILITY LANDSCAPE PLANS
# 10TH STREET @ HOWARD AVE.

## VICINITY MAP

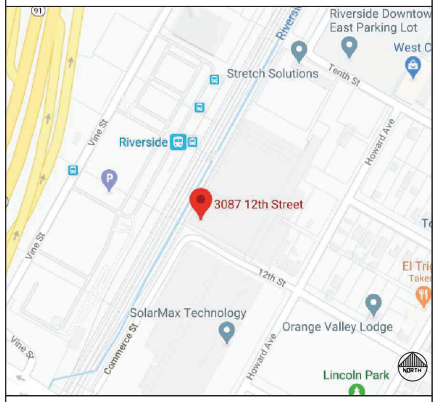

## LOCATION MAP




## PLAN CHECK SUBMITTAL

| | SUBMITTAL DATE | INITIALS | REVIEWED DATE | INITIALS |
|---|---|---|---|---|
| FIRST PLAN CHECK | 08.11.2022 | AWR | | |
| SECOND PLAN CHECK | 09.05.2023 | AWR | | |
| THIRD PLAN CHECK | 04.21.2024 | AWR | | |
| FOURTH PLAN CHECK | 06.26.2024 | AWR | | |
| FIFTH PLAN CHECK (SUB.VI) | 07.31.2024 | AWR | | |
| SIXTH PLAN CHECK (SUB.VII) | 10.30.2024 | AWR | | |

## SITE MAP




## MWELO

NOTE: MWELO COMPLIANCE SEE L-6 & IRRIGATION DESIGN PLANS L-2 TO L-5

NOTE: MWELO *PERFORMANCE* COMPLIANCE (OVER 2,500 SF)

| TOTAL IRRIGATED LANDSCAPE AREA: | 19,805 SF | 100.0% |
|---|---|---|
| LOW WATER USE PLANTING AREA: | 18,060 SF | 91.2% |
| MODERATE USE AREAS: | 1,745 SF | 8.8% |
| HIGH WATER USE TURF AREA: | 0 SF | 0 % |
| TOTAL: | | 100.0 % |

**MWELO CERTIFICATE OF COMPLETION**

THE FOLLOWING LANDSCAPE DOCUMENTATION IS TO BE SUBMITTED TO THE BUILDING INSPECTOR AT TIME OF FINAL INSPECTION:

| | |
|---|---|
| CERTIFICATE OF COMPLETION: | COMPLETED BY LANDSCAPE CONTRACTOR AT COMPLETION OF LANDSCAPE |
| CERTIFICATE OF INSTALLATION: | TO BE PROVIDED BY LANDSCAPE CONTRACTOR OR PROPERTY OWNER AT TIME OF COMPLETION TO THE CITY OF RIVERSIDE |
| SCHEDULE OF LANDSCAPE MAINTANENCE: | TO BE PROVIDED BY LANDSCAPE CONTRACTOR AS PART OF CERTIFICATE OF COMPLETION (C.O.C.) |
| SOIL MANAGEMENT REPORT: | LANDSCAPE CONTRACTOR TO PROVIDE TEST, INCORPORATE RECOMMENDATIONS DURING INSTALLATION AND PROVIDE AS PART OF CERTIFICATE OF COMPLETION (C.O.C.) |
| LANDSCAPE AUDIT REPORTS: | PREPARED BY A CERTIFIED THIRD PARTY LANDSCAPE IRRIGATION AUDITOR POST INSTALLATION AS PART OF CERTIFICATE OF COMPLETION (C.O.C.) |

## CITY OF RIVERSIDE GENERAL LANDSCAPE NOTES

**PUBLIC LANDSCAPING**

a. All related work shall conform to the City of Riverside Public Works Department Standards and Specifications for Planting and Irrigation work. (Sections 02441 and 02483).
b. A "Public Landscape" permit, as issued by the Public Works Department is required. Contact the Public Works Landscape Inspector at (951) 351-6313 to schedule a preconstruction meeting and to obtain the permit.
c. When calling for inspections contact the Public Works Landscape Inspector a minimum of 48 hours in advance to schedule an inspection. A written approval will be provided on the Public Landscape Permit card for each stage of inspection. A verbal approval will not be acceptable. Inspections are required per the standard specifications, and include but are not necessarily limited to the following:
- After completion of final grading and when all utility services have been marked, but prior to initiating any landscape work within the public right of way;
- At time of installation of irrigation sleeves and constant pressure mainlines, but prior to backfill of trenches for same (Note: mainlines must be pressure tested in the presence of the Public Works Landscape Inspector);
- At time of installation of irrigation valves, laterals and heads;
- For spotting of all trees prior to digging planting pits;
- While digging plant pits and planting/relocating trees;
- After planting and all other indicated or specified work has been completed, for start of maintenance;
- At substantial completion of the project for City's acceptance to start the required maintenance period;
- At the end of the Maintenance Period, the Contractor/Developer shall call the Public Works Landscape Inspector at the number listed above for a final acceptance inspection in order to be released from maintenance. Contractor's bond will not be released until after City's issuance of written notification that the project has passed final inspection and the Public Works Department is assuming maintenance responsibilities.

d. The Developer shall be responsible to acceptably maintain all plantings for a minimum period as specified in the bid documents.

**HOA MAINTAINED PUBLIC LANDSCAPES**

a. All related work shall conform to the City of Riverside Public Works Department Standards and Specifications for Planting and Irrigation work. (Sections 02441 and 02483).
Rev. (07/30/2009)
b. A "Public Landscape" permit, as issued by the Public Works Department is required. Contact the assigned Public Works Landscape Inspector at (951) 351-6313 to schedule a preconstruction meeting and to obtain the permit.
c. When calling for inspections contact the Public Works Landscape Inspector a minimum of 48 hours in advance to schedule an inspection. A written approval will be provided on the Public Landscape Permit card for each stage of inspection. A verbal approval will not be acceptable. Inspections are required per the standard specifications, and include but are not necessarily limited to the following:
- After completion of final grading and when all utility services have been marked, but prior to initiating any landscape work within the public right of way;
- At time of installation of irrigation sleeves and constant pressure mainlines, but prior to backfill of trenches for same (Note: mainlines must be pressure tested in the presence of the Public Works Landscape Inspector);
- At time of installation of irrigation valves, laterals and heads;
- For spotting of all trees prior to digging planting pits;
- While digging plant pits and planting/relocating trees;
- After planting and all other indicated or specified work has been completed, for start of maintenance;
- At substantial completion of the project for City's acceptance to start the required maintenance period;
- At the end of the Maintenance Period, the Contractor/Developer shall contact the Public Works Landscape Inspector at the number listed above for a final acceptance inspection in order to be released from maintenance. Developer's bonds will not be released until after City's receipt of written notification from the HOA's authorized representative that the HOA is assuming maintenance responsibilities, and the City's issuance of written notification to the Developer that the project has passed final inspection.

d. The Developer shall be responsible to acceptably maintain all plantings for a minimum period of one (1) year.
*NOTE: In the interest of public safety and maintenance the Public Works Landscape Inspector shall have the authority to revise the tree quantities and locations shown on approved plans based upon field conditions found at the time of installation of the trees.

## INDEX OF DRAWINGS



## AGENCIES

**OWNER:**
SHAUN TAN
BUILDER:
OWNER
3087 12TH STREET
RIVERSIDE, CA 92260
PH: (951)-203-3190
CONTACT PERSON:
TODD NELSON

**UTILITY COMPANY**
CITY OF RIVERSIDE
3900 MAIN STREET
RIVERSIDE, CA 92522
PHONE: (951) 782-0330

Underground Service Alert
Call: TOLL FREE
1-800
227-2600
TWO WORKING DAYS BEFORE YOU DIG

## PROJECT

NEW PARKING FACILITY 10TH STREET @ HOWARD
3087 12TH STREET, RIVERSIDE CA 92522
CITY OF RIVERSIDE, COUNTY OF RIVERSIDE
APN MULTI - MAIN APN 211-191-021-02 (PARCEL MERGER IN PROCESS)

## AGENCIES

## REVISIONS

| DATE | INITIALS | DESCRIPTION | APPROVAL INITIALS | DATE |
|---|---|---|---|---|
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

## CONSULTANT


Low Water Landscapes, Inc.
Folsom, CA 95630
LowWaterLandscapes.com

CONTACT PERSON:
AARON@LOWWATERLANDSCAPES.COM
T: 916-260-5094,
LINE 2: 916-941-5085

DANIEL PATNEAUDE
PH: 206-734-7765


FINAL SUBMITTAL

LICENSED LANDSCAPE ARCHITECT
STATE OF CALIFORNIA

06.27.2024
DATE
FOR REVIEW

AARON W. REDDICK
NAME

#6477
NUMBER

L-1
DATE: 09/05/2023
1 OF 9

PR-2023-001595 (CUP, LS/DR) Exhibit 8 - Project Plans

## GENERAL IRRIGATION NOTES:

1. SINCE A *PORTION* OF THIS PROJECT FALLS WITHIN PUBLIC RIGHT OF WAY, THE LANDSCAPE CONTRACTOR SHOULD REFER TO AND ADHERE TO THE ADDITIONAL CONSTRUCTION INSPECTION PROCEDURES AS PART OF THE CITY OF RIVERSIDE 'PUBLIC WORKS LANDSCAPE SPECIFICATIONS AND GUIDELINES': SECTION IV-1 GENERAL, IV-2 INSPECTION REQUIREMENTS, IV-3 RELEASE OF LANDSCAPE IMPROVEMENT BONDS/SURETY.

2. UNLESS CONTRADICTED BY A SOILS TEST, COMPOST AT A RATE OF A MINIMUM OF FOUR CUBIC YARDS PER 1,000 SQUARE FEET OF PERMEABLE AREA SHALL BE INCORPORATED TO A DEPTH OF SIX INCHES INTO THE SOIL EXCEPT WITHIN THE TPZ OF PROTECTED TREES, WHICH SHALL RECEIVE 4 - 6" OF HARDWOOD CHIP MULCH.

3. A DIAGRAM OF THE IRRIGATION PLAN SHOWING HYDROZONES SHALL BE KEPT WITH THE IRRIGATION CONTROLLER FOR SUBSEQUENT MANAGEMENT PURPOSES.

4. IRRIGATION ROUTING IS DIAGRAMMATICAL, FINAL ROUTING & SLEEVING LOCATIONS TO BE DETERMINED BY CONTRACTOR. AVOID ANY CONFLICTS BETWEEN THE DRIP SYSTEM, BUBBLER SYSTEM, PLANTING AND ARCHITECTURAL FEATURES.

5. DUE TO UNFORSEEN UNDERGROUND CONDITIONS, MAINLINE, LATERALS, SLEEVING, AND VALVES ARE DIAGRAMMATICALLY IN NATURE AND TO BE LOCATED BY CONTRACTOR DURING INSTALLATION AND PROVIDE AN AS-BUILT PLAN AS NEEDED.

6. THE IRRIGATION SYSTEM DESIGN IS BASED ON THE MINIMUM OPERATING PRESSURE OF 50 DYNAMIC PSI AT THE VALVES AND THE MAXIMUM FLOW OF 18.5 GPM AT VALVE #A-11 AS SHOWN ON THE IRRIGATION DRAWINGS AT THE METER OR POINT OF CONNECTION. THE IRRIGATION CONTRACTOR SHALL VERIFY WATER PRESSURE PRIOR TO CONSTRUCTION. REPORT ANY DIFFERENCE BETWEEN THE WATER PRESSURE IRRIGATION POINT OF CONNECTION TO THE OWNER'S AUTHORIZED REPRESENTATIVE. IN THE EVENT THAT PRESSURE DIFFERENCES ARE NOT REPORTED PRIOR TO THE START OF CONSTRUCTION, THE IRRIGATION CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY REVISIONS NECESSARY.

7. 120 VOLT ELECTRICAL POWER OUTLET AT THE AUTOMATIC CONTROLLER LOCATION SHALL BE PROVIDED BY OTHERS. IT SHALL BE THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO MAKE THE FINAL HOOK-UP FROM THE ELECTRICAL OUTLET TO THE AUTOMATIC CONTROLLER.

8. THE IRRIGATION CONTRACTOR SHALL FLUSH AND ADJUST ALL VALVES BY THROTTLING THE FLOW CONTROL AT EACH VALVE TO OBTAIN THE OPTIMUM OPERATING PRESSURE FOR EACH SYSTEM.

9. DO NOT WILLFULLY INSTALL THE IRRIGATION SYSTEM AS SHOWN ON THE DRAWINGS WHEN IT IS OBVIOUS IN THE FIELD THAT OBSTRUCTIONS, GRADE DIFFERENCES OR DIFFERENCES IN THE AREA DIMENSIONS EXIST THAT MIGHT NOT HAVE BEEN CONSIDERED IN THE ENGINEERING. SUCH OBSTRUCTIONS OR DIFFERENCES SHOULD BE BROUGHT TO THE ATTENTION OF THE OWNER'S AUTHORIZED REPRESENTATIVE. IN THE EVENT THAT THIS NOTIFICATION IS NOT PERFORMED, THE IRRIGATION CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY REVISIONS NECESSARY.

10. INSTALL ALL PIPE MATERIALS AND EQUIPMENT AS SHOWN IN THE DETAILS. USE TEFLON TAPE OR TEFLON PIPE DOPE ON ALL PVC MALE PIPE THREADS

11. CONTRACTOR SHALL PROGRAM IRRIGATION CONTROLLER TO OPERATE AS FOLLOWS POST-CONSTRUCTION: VALVES SHALL ONLY BE TURNED ON BETWEEN THE HOURS OF 10:00 P.M. AND 6:00 A.M.

12. DRIP ZONES CONSIST OF BUILT IN EMITTER LINES, HOWEVER EACH ZONE SHALL HAVE (1) AIR-RELEASE VALVE AT THE HIGHEST POINT OF THE SYSTEM & ONE AUTOMATIC FLUSH VALVE AT THE LOWEST POINT OF THE ZONE (SEE LEGEND).

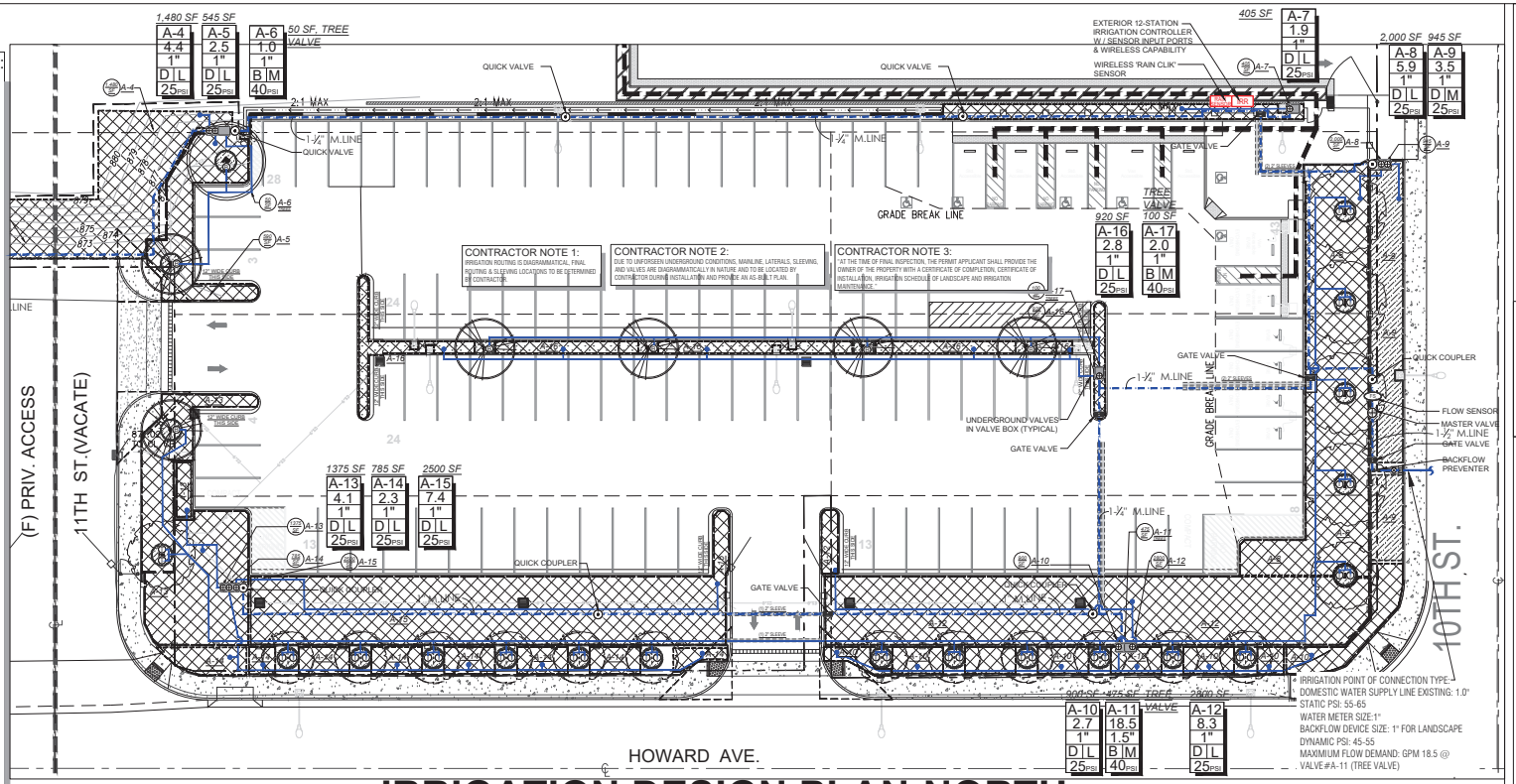
13. DO NOT INSTALL FILTER BASKETS OR PRESSURE REDUCERS FOR 17 MM DRIPLINES AS COMPONENTS ARE DESIGNED FOR 40 PSI OPTIMAL.

14. 120 VOLT ELECTRICAL POWER OUTLET AT THE AUTOMATIC CONTROLLER LOCATION SHALL BE PROVIDED BY OTHERS. IT SHALL BE THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO MAKE THE FINAL HOOK-UP FROM THE ELECTRICAL OUTLET TO THE AUTOMATIC CONTROLLER.

15. IN ADDITION TO THE CONTROL WIRE NECESSARY FOR THE REMOTE CONTROL VALVES SHOWN ON THE DRAWING, THE CONTRACTOR SHALL PROVIDE A MINIMUM OF EIGHTEEN (18) INCHES OF A COMPLETE SET OF SPARE CONTROL WIRES, LOOPED, WITHIN EACH VALVE BOX.

16. IT IS THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO BE FAMILIARIZED WITH ALL GRADE DIFFERENCES, LOCATION OF WALLS, RETAINING WALLS, ETC. HE SHALL COORDINATE HIS WORK WITH THE GENERAL CONTRACTOR AND OTHER SUB-CONTRACTORS FOR THE LOCATION AND THE INSTALLATION OF PIPE SLEEVES THROUGH WALLS, UNDER ROADWAYS, PAVING, STRUCTURES, ETC.






# IRRIGATION DESIGN PLAN-NORTH

NORTH

SCALE: 1"=16'-0"
0 4' 8' 16' 32'
FEET

### IRRIGATION MAINLINE EQUIPMENT

| SYMBOL | MANUFACTURER | MODEL | DESCRIPTION |
|---|---|---|---|
| W/M | -- | -- | EXISTING WATER METER. VERIFY LOCATION IN FIELD. |
| | NIBCO | T18-1 | 1" BRASS GATE VALVE, FNPT, PROVIDE IN ROUND VALVE BOX |
| BF | ZURN | 720A -1" PRESSURE VACUUM BREAKER ASSEMBLY | 1" PRESSURE VACUUM BREAKER TO ELIMINATE BACKFLOW INTO POTABLE SYSTEM |
| FS | HUNTER | HC-FLOW 100 W-HC-FLOW | HC FLOW METER FOR HYDRAWISE WITH 1" NPT MALE ADAPTER, CONNECTED TO CONTROLLER FOR WATER LOSS PREVENTION. ADD W-HC-FLOW AS A WIRELESS TRANSMITTER AS AN OPTION, OTHERWISE HARDWARE ALONG MAINLINE TO CONTROLLER |
| | RAIN BIRD | 1" PES-B | MASTER VALVE, NORMALLY CLOSED POSITION, WIRED TO CONTROLLER PER CONTROLLER WIRING MANUAL & LOCATED BETWEEN BACKFLOW PREVENTER FLOW SENSOR. PROVIDE IN ROUND VALVE BOX. |
| | RAINBIRD | 44-LRC | QUICK COUPLING VALVE WITH LOCKING RUBBER COVER. PROVIDE IN VALVE BOX PER DETAIL ON L-4 |
| IRR | HUNTER | PHC-12 - 00 | 12 STATION CONTROLLER, OUTDOOR MODEL, WIRELESS CONTROL WITH FLOW METER AND RAIN-CLIK SENSORS PORTS. NOTE: CONTROLLER IS FOR ALL FUTURE EXPANSION |
| RAIN SENSOR | HUNTER | WR-CLIK | WIRELESS SENSOR FOR AUTOMATIC SHUTOFF DURING RAIN EVENTS |

### VALVE DESIGNATORS & IRRIGATION PIPING

| SYMBOL | TYPE | DESCRIPTION |
|---|---|---|
| | PRESSURE MAIN LINE | PVC CLASS 315 FOR SIZES 2" AND LARGER, PVC SCHEDULE 40 FOR SIZES 1-1/2" AND SMALLER (SIZE AS NOTED). |
| | NON-PRESSURE LATERAL | PVC SCHEDULE 40 (SIZE AS NOTED) |
| NOT SHOWN | CONDUIT | PVC SCHEDULE 40 - 2" MIN. DIAMETER FOR LOW VOLTAGE WIRING. |
| | SLEEVE - PVC SCH. 40 | PVC SCHEDULE 40 - TWICE THE DIAMETER OF THE LINE SIZE MINIMUM OR AS NOTED ON PLAN. INSTALL 12" BELOW FINISHED GRADE. EXTEND 12" PAST END OF PAVING. |
| A1 | | INDICATES CONTROLLER LETTER DESIGNATION AND STATION NUMBER |
| 3.6 | | INDICATES FLOW IN GALLONS PER MINUTE |
| 1" | | INDICATES ELECTRIC CONTROL VALVE SIZE |
| D | | INDICATES TYPE OF PLANT MATERIAL BEING IRRIGATED. D=DRIP FOR SHRUBS / GROUNDCOVER B=BUBBLERS FOR TREES OR S=OVERHEAD SPRAY |
| L | | INDICATES HYDROZONE AREA. L = LOW, M = MODERATE, H = HIGH |
| 25 PSI | | PSI REGULATED AT VALVE BY PRESSURE REDUCER. 30 PSI FOR 17 MM DRIP. 25 FOR TRADITIONAL DRIP. |

### IRRIGATION VALVE & 17 MM DRIP EQUIPMENT

| | SYMBOL | MANUFACTURER | MODEL | DESCRIPTION |
|---|---|---|---|---|
| | | RAIN BIRD | 1" PES-B | BELOW GROUND 1" REMOTE CONTROL VALVE, WITH FACTORY INSTALLED ATMOSPHERIC ANTI-SIPHON, ADD PRESSURE REDUCER FOR ALL 25 PSI 17 MM DRIP ZONES (NOT ON TREE BUBBLER ZONES). PROVIDE IN BANKS OF 2 PER VALVE BOX. |
| | | RAIN BIRD | 1"-100 PES-B/ 1.5"-150 PES-B | BELOW GROUND 1" OR 1.5" REMOTE CONTROL VALVE, FULL PRESSURE (40 PSI) FOR TREE BUBBLER ZONES, INSTALLED IN VALVE BOX. |
| LOW WATER USE ZONE TOTAL: 18,060 SF | | DRIPLINE LANDSCAPE PRODUCTS | 17 MM DRIPLINE OR TREE ROOT ZONE WATERING KIT | DRIPPER LINE WITH 0.4 GPH FLOW RATE AND 18" DRIPPER SPACING, PLACED AT 18" ROW SPACING. INSTALL PER MANUFACTURER'S SPECIFICATIONS AND DETAILS. DO NOT EXCEED 430 L.F. LENGTH IN SINGLE RUN. INSTALL ONE PRESSURE RELIEF VALVE AT BOTTOM OF RUN & ONE AIR RELEASE VALVE AT HIGHEST POINT OF ZONE. EQUIVALENT TO HUNTER PLD OR RAINBIRD XFS |
| MODERATE WATER USE ZONE TOTAL: 1,745 | | DRIPLINE LANDSCAPE PRODUCTS | 17 MM DRIPLINE OR TREE ROOT ZONE WATERING KIT | DRIPPER LINE WITH 0.6 GPH FLOW RATE AND 18" DRIPPER SPACING, PLACED AT 24" ROW SPACING. INSTALL PER MANUFACTURER'S SPECIFICATIONS AND DETAILS. DO NOT EXCEED 430 L.F. LENGTH IN SINGLE RUN. INSTALL ONE PRESSURE RELIEF VALVE AT BOTTOM OF RUN & ONE AIR RELEASE VALVE AT HIGHEST POINT OF ZONE. EQUIVALENT TO HUNTER PLD OR RAINBIRD XFS |
| HIGH WATER USE ZONE TOTAL: 0 | | SEE IRRIGATION SPRINKLER LEGEND | -- | -- |

### IRRIGATION LEGEND - POPUP TREE BUBBLER HEADS

| SYMBOL | BODY DESCRIPTION | NOZZLE DESCRIPTION | RADIUS / ACTUAL ADJUSTED | FLOW | PSI | PRECIP. RATE (INCHES) | PATTERN |
|---|---|---|---|---|---|---|---|
| T | IN-DEEP IRRIGATION ROOT QUENCHER | INSTALL 2 PER MEDIUM SIZED STREET TREE | -- | .50 GPM EA. (1.0 TOTAL) | 40 | -- | TRICKLE |
| B | IN-DEEP IRRIGATION ROOT QUENCHER | INSTALL 1 PER SMALL TREE | -- | .50 GPM | 40 | -- | TRICKLE |

### LATERAL LINE SIZING CHART

| GALLONS PER MINUTE | PIPE SIZE |
|---|---|
| 1-5 | 3/4" |
| 6-10 | 1" |
| 11-20 | 1 1/4" |
| 21-28 | 1 1/2" |
| 29-55 | 2" |

### PIPE & TRENCH DEPTH

| TYPE | DEPTH |
|---|---|
| SCH. 40 MAINLINE 1.5" OR LESS | 18" |
| SCH. 40 & CLASS 200 PVC IPS PLASTIC LATERALS | 12" |
| CLASS 315 PVC IPS PLASTIC MAINLINES OVER 2" | 24" |

Underground Service Alert
Call: TOLL FREE 1-800 227-2600
TWO WORKING DAYS BEFORE YOU DIG

NOTE:
I HAVE COMPLIED WITH THE CRITERIA OF THE MODEL WATER CONSERVATION LANDSCAPING ORDINANCE, 'APPENDIX D' AND APPLIED THEM TO THE EFFICIENT USE OF WATER IN THE IRRIGATION DESIGN PLAN.

AARON W. REDDICK 07.31.2024
CA L.A.#6477
LOW WATER LANDSCAPES

### NOTE: MWELO *PERFORMANCE* COMPLIANCE (OVER 2,500 SF)

| | | |
|---|---|---|
| TOTAL IRRIGATED LANDSCAPE AREA: | 19,805 SF | 100.0% |
| LOW WATER USE PLANTING AREA: | 18,060 SF | 91.2% |
| MODERATE USE AREAS: | 1,745 SF | 8.8% |
| HIGH WATER USE TURF AREA: | 0 SF | 0 % |
| TOTAL: | | 100.0 % |

Low Water Landscapes, Inc.
Folsom, CA 95630
Tel: 916-280-5094 or
Line 2: 916-941-5065
Aaron@LowWaterLandscapes.com

FINAL SUBMITTAL

CONSULTANT
DRP ENTERPRISES LLC
PO BOX 4428
PALM SPRINGS, CA 92263
DAVID R. PRICE
R.C.E # 26900

SHEET TITLE: IRRIGATION DESIGN PLAN - NORTH

OWNER
SHAUN TAN
3087 12 STREET
RIVERSIDE, CA 92522

PRISM AEROSPACE
NEW PARKING FACILITY LANDSCAPING-10TH @ HOWARD
3087 12TH STREET, RIVERSIDE, CA 92522
APN# 211-201-021-2 - PROJECT# 2019-125

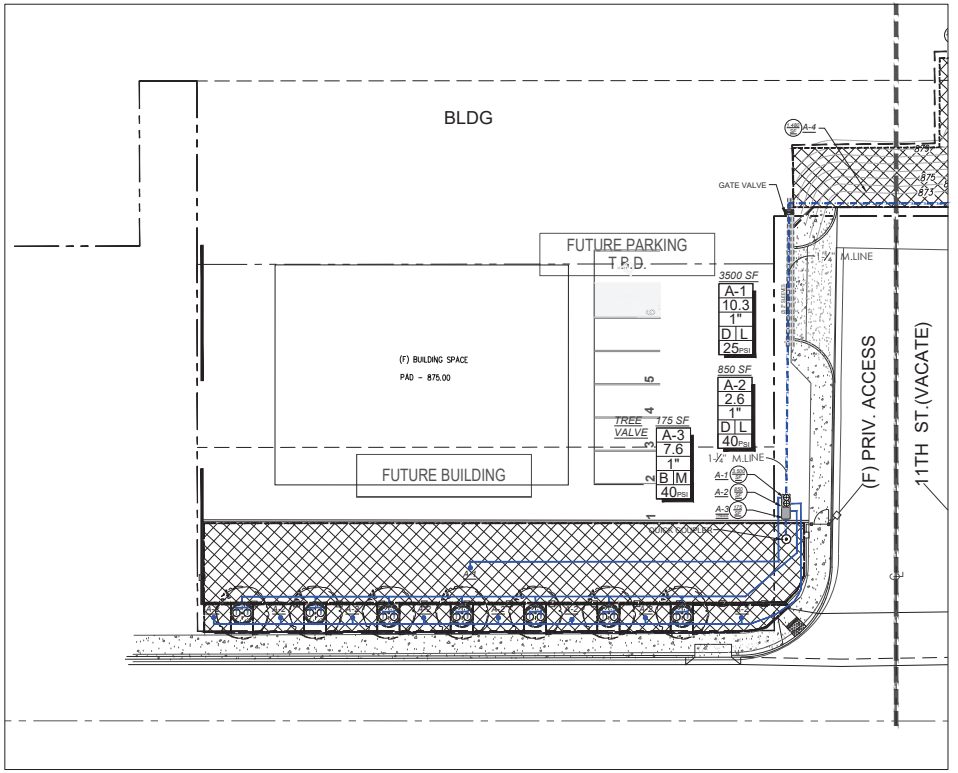
CONTACT:
TODD NELSON
PRISM AEROSPACE
(951)203-3190

| SUBMITTALS | BY |
|---|---|
| 1 8-04-2022 | LWL |
| 2 8-11-2023 | LWL |
| 3 9-05-2023 | LWL |
| 4 4-22-2024 | LWL |
| 5 6-27-2024 | LWL |
| 6 7-31-2024 | LWL |
| 7 10-30-2024 | LWL |

NORTH

LWL JOB# 2022.04_RIVERSIDE
DRP JOB# NO.2019-125

L-2
2 OF 9




CONTRACTOR NOTE 1:
IRRIGATION ROUTING IS DIAGRAMMATICAL. FINAL ROUTING & SLEEVING LOCATIONS TO BE DETERMINED BY CONTRACTOR.

CONTRACTOR NOTE 2:
DUE TO UNFORSEEN UNDERGROUND CONDITIONS, MAINLINE, LATERALS, SLEEVING, AND VALVES ARE DIAGRAMMATICALLY IN NATURE AND TO BE LOCATED BY CONTRACTOR DURING INSTALLATION AND PROVIDE AN AS-BUILT PLAN.

CONTRACTOR NOTE 3:
"AT THE TIME OF FINAL INSPECTION, THE PERMIT APPLICANT SHALL PROVIDE THE OWNER OF THE PROPERTY WITH A CERTIFICATE OF COMPLETION, CERTIFICATE OF INSTALLATION, IRRIGATION SCHEDULE OF LANDSCAPE AND IRRIGATION MAINTENANCE."

# IRRIGATION DESIGN PLAN - SOUTH

SCALE: 1"=16'-0"
0 4' 8' 16' 32'
FEET

## IRRIGATION MAINLINE EQUIPMENT

| SYMBOL | MANUFACTURER | MODEL | DESCRIPTION |
|---|---|---|---|
| WM | -- | -- | EXISTING WATER METER. VERIFY LOCATION IN FIELD. |
| | NIBCO | T-18-1 | 1" BRASS GATE VALVE, FNPT, PROVIDE IN ROUND VALVE BOX |
| BF | ZURN | 720A -1" PRESSURE VACUUM BREAKER ASSEMBLY | 1" PRESSURE VACUUM BREAKER TO ELIMINATE BACKFLOW INTO POTABLE SYSTEM |
| FS | HUNTER | HC-FLOW 100 W=HC-FLOW | HC FLOW METER FOR HYDRAWISE WITH 1" NPT MALE ADAPTER, CONNECTED TO CONTROLLER FOR WATER LOSS PREVENTION. ADD W=HC-FLOW AS A WIRELESS TRANSMITTER AS AN OPTION. OTHERWISE HARDWARE ALONG MAINLINE TO CONTROLLER |
| MV | RAIN BIRD | 1" PES-B | MASTER VALVE, NORMALLY CLOSED POSITION, WIRED TO CONTROLLER PER CONTROLLER WIRING MANUAL & LOCATED BETWEEN BACKFLOW PREVENTER FLOW SENSOR. PROVIDE IN ROUND VALVE BOX. |
| | RAINBIRD | 44-LRC | QUICK COUPLING VALVE WITH LOCKING RUBBER COVER. PROVIDE IN VALVE BOX PER DETAIL ON L-4 |
| IRR | HUNTER | PHC-12 - 00 | 12 STATION CONTROLLER, OUTDOOR MODEL, WIRELESS CONTROL WITH FLOW METER AND RAIN-CLIK SENSORS PORTS. NOTE: CONTROLLER IS FOR ALL FUTURE EXPANSION |
| RAIN SENSOR | HUNTER | WR-CLIK | WIRELESS SENSOR FOR AUTOMATIC SHUTOFF DURING RAIN EVENTS |

## VALVE DESIGNATORS & IRRIGATION PIPING

| SYMBOL | TYPE | DESCRIPTION |
|---|---|---|
| | PRESSURE MAIN LINE | PVC CLASS 315 FOR SIZES 2" AND LARGER, PVC SCHEDULE 40 FOR SIZES 1-1/2" AND SMALLER (SIZE AS NOTED). |
| | NON-PRESSURE LATERAL | PVC SCHEDULE 40 (SIZE AS NOTED) |
| NOT SHOWN | CONDUIT | PVC SCHEDULE 40 - 2" MIN. DIAMETER FOR LOW VOLTAGE WIRING. |
| | SLEEVE - PVC SCH. 40 | PVC SCHEDULE 40 - TWICE THE DIAMETER OF THE LINE SIZE MINIMUM OR AS NOTED ON PLAN. INSTALL 12" BELOW FINISHED GRADE. EXTEND 12" PAST END OF PAVING. |
| A1 | | INDICATES CONTROLLER LETTER DESIGNATION AND STATION NUMBER |
| 3.6 | | INDICATES FLOW IN GALLONS PER MINUTE |
| 1" | | INDICATES ELECTRIC CONTROL VALVE SIZE |
| D | | INDICATES TYPE OF PLANT MATERIAL BEING IRRIGATED. D=DRIP FOR SHRUBS / GROUNDCOVER B=BUBBLERS FOR TREES OR S=OVERHEAD SPRAY |
| L | | INDICATES HYDROZONE AREA. L = LOW, M = MODERATE, H = HIGH |
| 25 PSI | | PSI REGULATED AT VALVE BY PRESSURE REDUCER. 30 PSI FOR 17 MM DRIP, 25 FOR TRADITIONAL DRIP. |

## IRRIGATION VALVE & 17 MM DRIP EQUIPMENT

| SYMBOL | MANUFACTURER | MODEL | DESCRIPTION |
|---|---|---|---|
| | RAIN BIRD | 1" PES-B | BELOW GROUND 1" REMOTE CONTROL VALVE, WITH FACTORY INSTALLED ATMOSPHERIC ANTI-SIPHON, ADD PRESSURE REDUCER FOR ALL 25 PSI 17 MM DRIP ZONES (NOT ON TREE BUBBLER ZONES). PROVIDE IN BANKS OF 2 PER VALVE BOX. |
| | RAIN BIRD | 1"-100 PES-B/ 1.5"-150 PES-B | BELOW GROUND 1" OR 1.5" REMOTE CONTROL VALVE. FULL PRESSURE (40 PSI) FOR TREE BUBBLER ZONES, INSTALLED IN VALVE BOX. |
| LOW WATER USE ZONE TOTAL: 18,060 SF | DRIPLINE LANDSCAPE PRODUCTS | 17 MM DRIPLINE OR TREE ROOT ZONE WATERING KIT | DRIPPER LINE WITH 0.4 GPH FLOW RATE AND 18" DRIPPER SPACING, PLACED AT 18" ROW SPACING. INSTALL PER MANUFACTURER'S SPECIFICATIONS AND DETAILS. DO NOT EXCEED 430 L.F. LENGTH IN SINGLE RUN. INSTALL ONE PRESSURE RELIEF VALVE AT BOTTOM OF RUN & ONE AIR RELEASE VALVE AT HIGHEST POINT OF ZONE. EQUIVALENT TO HUNTER PLD OR RAINBIRD XFS |
| MODERATE WATER USE ZONE TOTAL: 1,745 | DRIPLINE LANDSCAPE PRODUCTS | 17 MM DRIPLINE OR TREE ROOT ZONE WATERING KIT | DRIPPER LINE WITH 0.6 GPH FLOW RATE AND 18" DRIPPER SPACING, PLACED AT 24" ROW SPACING. INSTALL PER MANUFACTURER'S SPECIFICATIONS AND DETAILS. DO NOT EXCEED 430 L.F. LENGTH IN SINGLE RUN. INSTALL ONE PRESSURE RELIEF VALVE AT BOTTOM OF RUN & ONE AIR RELEASE VALVE AT HIGHEST POINT OF ZONE. EQUIVALENT TO HUNTER PLD OR RAINBIRD XFS |
| HIGH WATER USE ZONE TOTAL: 0 | SEE IRRIGATION SPRINKLER LEGEND | -- | -- |

## IRRIGATION LEGEND - POPUP TREE BUBBLER HEADS

| SYMBOL | BODY DESCRIPTION | NOZZLE DESCRIPTION | RADIUS / ACTUAL ADJUSTED | FLOW | PSI | PRECIP. RATE (INCHES) | PATTERN |
|---|---|---|---|---|---|---|---|
| T | 4"-DEEP IRRIGATION ROOT QUENCHER | INSTALL 2 PER MEDIUM SIZED STREET TREE | -- | .50 GPM EA. (1.0 TOTAL) | 40 | -- | TRICKLE |
| B | 4"-DEEP IRRIGATION ROOT QUENCHER | INSTALL 1 PER SMALL TREE | -- | .50 GPM | 40 | -- | TRICKLE |

## LATERAL LINE SIZING CHART

| GALLONS PER MINUTE | PIPE SIZE |
|---|---|
| 1-5 | 3/4" |
| 6-10 | 1" |
| 11-20 | 1 1/4" |
| 21-28 | 1 1/2" |
| 29-55 | 2" |

## PIPE & TRENCH DEPTH

| TYPE | DEPTH |
|---|---|
| SCH. 40 MAINLINE 1.5" OR LESS | 18" |
| SCH. 40 & CLASS 200 PVC IPS PLASTIC LATERALS | 12" |
| CLASS 315 PVC IPS PLASTIC MAINLINES OVER 2" | 24" |

Underground Service Alert
Call: TOLL FREE
1-800
227-2600
TWO WORKING DAYS BEFORE YOU DIG

NOTE:
I HAVE COMPLIED WITH THE CRITERIA OF THE MODEL WATER CONSERVATION LANDSCAPING ORDINANCE, "APPENDIX D" AND APPLIED THEM TO THE EFFICIENT USE OF WATER IN THE IRRIGATION DESIGN PLAN.

AARON W. REDDICK 07.31.2024
CA L.A.#6477
LOW WATER LANDSCAPES

## NOTE: MWELO *PERFORMANCE* COMPLIANCE (OVER 2,500 SF)

| | | |
|---|---|---|
| TOTAL IRRIGATED LANDSCAPE AREA: | 19,805 SF | 100.0% |
| LOW WATER USE PLANTING AREA: | 18,060 SF | 91.2% |
| MODERATE USE AREAS: | 1,745 SF | 8.8% |
| HIGH WATER USE TURF AREA: | 0 SF | 0 % |
| TOTAL: | | 100.0 % |

Low Water Landscapes, Inc.
Folsom, CA 95630
Tel: 916-280-5094 or
Line 2: 916-941-5065
Aaron@LowWaterLandscapes.com

FINAL SUBMITTAL

CONSULTANT
DRP ENTERPRISES LLC
PO BOX 4428
PALM SPRINGS, CA 92263
DONNIE RISER
R.C.E. # 26900

SHEET TITLE: IRRIGATION DESIGN PLAN

OWNER
SHAUN TAN
3057 12 STREET
RIVERSIDE, CA 92522

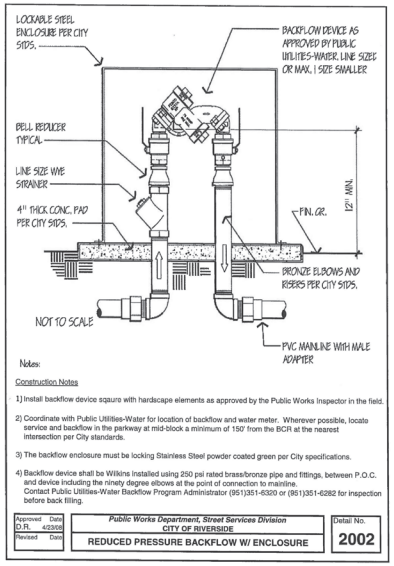
PRISM AEROSPACE
NEW PARKING FACILITY LANDSCAPING-10TH @ HOWARD
3087 12TH STREET, RIVERSIDE, CA 92522
APN# 211-201-021-02 -- PROJECT # 2019-125

CONTACT:
TODD NELSON
PRISM AEROSPACE
(951)203-3190

| SUBMITTALS | BY |
|---|---|
| 1 8-04-2022 | LWL |
| 2 8-11-2023 | LWL |
| 3 9-05-2023 | LWL |
| 4 4-22-2024 | LWL |
| 5 6-27-2024 | LWL |
| 6 7-31-2024 | LWL |
| 7 10-30-2024 | LWL |

LWL JOB# 2022.04_RIVERSIDE
DRP JOB# NO.2019-125

L-3
3 OF 9




Notes:

Construction Notes

1) Install backflow device sqaure with hardscape elements as approved by the Public Works Inspector in the field.

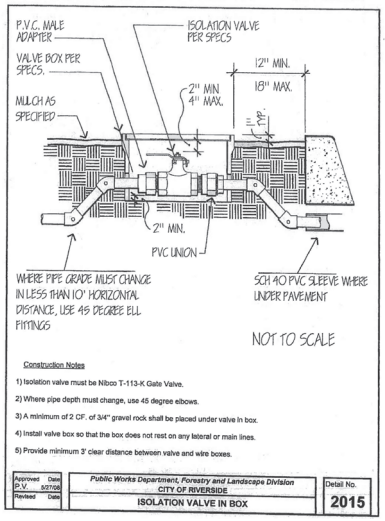
2) Coordinate with Public Utilities-Water for location of backflow and water meter. Wherever possible, locate service and backflow in the parkway at mid-block a minimum of 150' from the BCR at the nearest intersection per City standards.

3) The backflow enclosure must be locking Stainless Steel powder coated green per City specifications.

4) Backflow device shall be Wilkins Installed using 250 psi rated brass/bronze pipe and fittings, between P.O.C. and device including the ninety degree elbows at the point of connection to mainline. Contact Public Utilities-Water Backflow Program Administrator (951)351-6320 or (951)351-6282 for inspection before back filling.

| Approved | Date | Public Works Department, Street Services Division CITY OF RIVERSIDE | Detail No. |
|---|---|---|---|
| O.R. | 4/23/08 | REDUCED PRESSURE BACKFLOW W/ ENCLOSURE | 2002 |
| Revised | Date | | |

## 1 REDUCED PRESSURE BACKFLOW W/ENCLOSURE
SCALE: N.T.S.




Construction Notes

1) Isolation valve must be Nibco T-113-K Gate Valve.

2) Where pipe depth must change, use 45 degree elbows.

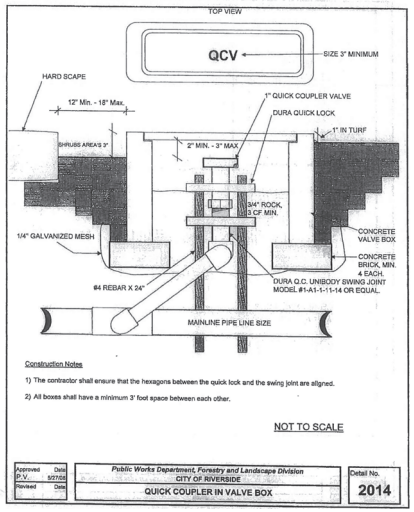
3) A minimum of 2 CF. of 3/4" gravel rock shall be placed under valve in box.

4) Install valve box so that the box does not rest on any lateral or main lines.

6) Provide minimum 3' clear distance between valve and wire boxes.

| Approved | Date | Public Works Department, Forestry and Landscape Division CITY OF RIVERSIDE | Detail No. |
|---|---|---|---|
| P.V. | 5/27/08 | ISOLATION VALVE IN BOX | 2015 |
| Revised | Date | | |

## 3 GATE VALVE
SCALE: N.T.S.



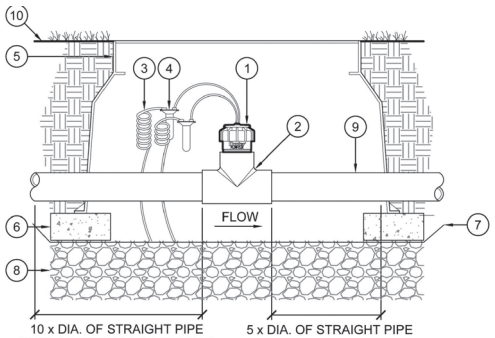

Construction Notes

1) The contractor shall ensure that the hexagons between the quick lock and the swing joint are aligned.

2) All boxes shall have a minimum 3' foot space between each other.

| Approved | Date | Public Works Department, Forestry and Landscape Division CITY OF RIVERSIDE | Detail No. |
|---|---|---|---|
| P.V. | 5/27/08 | QUICK COUPLER IN VALVE BOX | 2014 |
| Revised | Date | | |

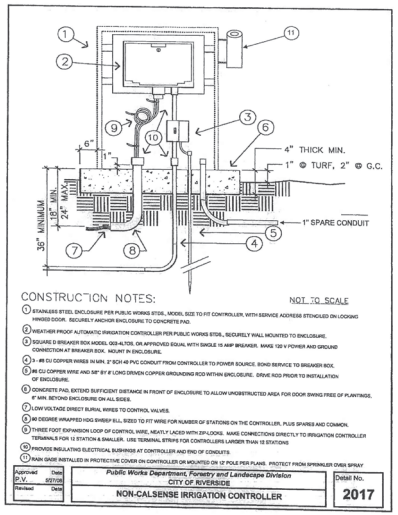
## 5 QUICK COUPLER
SCALE: N.T.S.




### DETAIL LEGEND:

1. FLOW SENSOR PER PLAN (HFS)
2. RECEPTACLE TEE (FCT), SIZE PER PLAN
3. MIN. 18/2 WIRE PER PLAN TO CONTROLLER SENSOR TERMINALS. MAXIMUM WIRE DISTANCE RUN OF 1,000'
4. DBRY-6 WIRE SPLICE
5. RECTANGULAR VALVE BOX PER PLAN
6. BRICK SUPPORTS AT EACH CORNER (4)
7. FILTER FABRIC
8. GRAVEL BASE, DEPTH PER PLAN
9. MAIN LINE AND SOIL COVER PER PLAN
10. FINISHED GRADE

## 2 1" FLOW SENSOR LAYOUT
SCALE: N.T.S.

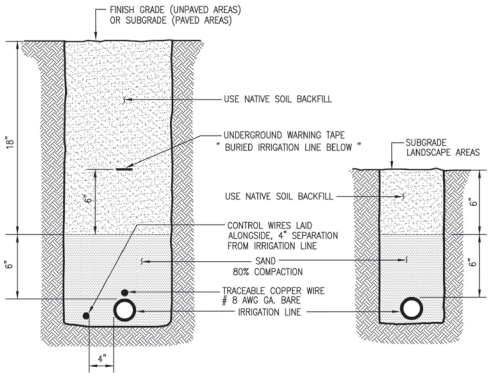



CONSTRUCTION NOTES: NOT TO SCALE

1. STAINLESS STEEL ENCLOSURE PER PUBLIC WORKS STDS., MODEL SIZE TO FIT CONTROLLER, WITH SERVICE ADDRESS STENCILED ON LOCKING HINGED DOOR. SECURELY ANCHOR ENCLOSURE TO CONCRETE PAD.
2. WEATHER PROOF AUTOMATIC IRRIGATION CONTROLLER PER PUBLIC WORKS STDS., SECURELY WALL MOUNTED TO ENCLOSURE.
3. SQUARE D BREAKER BOX MODEL QO3-4L70S, OR APPROVED EQUAL WITH SINGLE 15 AMP BREAKER. MAKE 120 V POWER AND GROUND CONNECTION AT BREAKER BOX. MOUNT IN ENCLOSURE.
4. 3 - #8 CU COPPER WIRES IN MIN. 2" SCH 40 PVC CONDUIT FROM CONTROLLER TO POWER SOURCE. BOND SERVICE TO BREAKER BOX.
5. #8 CU COPPER WIRE AND 5/8" BY 8' LONG DRIVEN COPPER GROUNDING ROD WITHIN ENCLOSURE. DRIVE ROD PRIOR TO INSTALLATION OF ENCLOSURE.
6. CONCRETE PAD, EXTEND SUFFICIENT DISTANCE IN FRONT OF ENCLOSURE TO ALLOW UNOBSTRUCTED AREA FOR DOOR SWING FREE OF PLANTINGS, 6" MIN. BEYOND ENCLOSURE ON ALL SIDES.
7. LOW VOLTAGE DIRECT BURIAL WIRES TO CONTROL VALVES.
8. 60 DEGREE WRAPPED HDG SWEEP ELL, SIZED TO FIT WIRE FOR NUMBER OF STATIONS ON THE CONTROLLER, PLUS SPARES AND COMMON.
9. THREE FOOT EXPANSION LOOP OF CONTROL WIRE, NEATLY LACED WITH ZIP-LOKS. MAKE CONNECTIONS DIRECTLY TO IRRIGATION CONTROLLER TERMINALS FOR 12 STATION & SMALLER. USE TERMINAL STRIPS FOR CONTROLLERS LARGER THAN 12 STATIONS
10. PROVIDE INSULATING ELECTRICAL BUSHINGS AT CONTROLLER AND END OF CONDUITS.
11. RAIN GAGE INSTALLED IN PROTECTIVE COVER ON CONTROLLER OR MOUNTED ON 12' POLE PER PLANS. PROTECT FROM SPRINKLER OVER SPRAY

| Approved | Date | Public Works Department, Forestry and Landscape Division CITY OF RIVERSIDE | Detail No. |
|---|---|---|---|
| P.V. | 6/27/08 | NON-CALSENSE IRRIGATION CONTROLLER | 2017 |
| Revised | Date | | |

## 4 CONTROLLER ENCLOSURE
SCALE: N.T.S.




NOTES:

1. MIN. 30" DEPTH REQUIRED FOR BOTH MAINLINES AND LATERALS AT MAIN ENTRY DRIVEWAYS OR TRUCK ENTRY DRIVEWAYS.
2. ALL MAINLINE (SUPPLY LINE) PIPE 3" IN DIA. AND LESS TO BE SCH. 40 PVC. IF LARGER THAN 3" IN DIA. PIPE TO BE AWWA C-900 CLASS 200 PIPE.
3. ALL LATERAL LINES TO BE MIN. SCH. 40 PVC PIPE.
4. ALL MAINLINES AND LATERALS TO BE INSTALLED IN SCH. 40 PVC SLEEVING UNDER ALL PAVEMENT MATERIAL (NON-LANDSCAPED). EXTEND SLEEVING 6" BEYOND EDGE OF PAVEMENT OR CURB.
5. COMPLETE MAIN LINE FLUSHING PRIOR TO VALVE INSTALLATION. CITY ENGINEER TO BE PRESENT DURING FLUSHING.
6. STATION WIRE RUNS ALONG MAIN LINE SHALL INCLUDE A 1" SERVICE LOOP AT ALL TEES AND 90'S.
7. NO VERTICAL STACKINGS OF IRRIGATION. INSTALL 4" MIN. APART SIDE BY SIDE.

## 6 IRRIGATION TRENCHING
SCALE: N.T.S.



Low Water Landscapes, Inc.
Folsom, CA 95630
Tel: 916-280-5094 or
Line 2: 916-941-5065
Aaron@LowWaterLandscapes.com

FINAL SUBMITTAL

CONSULTANT
DRP ENTERPRISES LLC
PO BOX 4428
PALM SPRINGS, CA 92263
DAVID R. PRICE
R.C.E # 21900

SHEET TITLE: IRRIGATION DETAILS

PRISM AEROSPACE
NEW PARKING FACILITY LANDSCAPING-10TH @ HOWARD
3087 12TH STREET, RIVERSIDE, CA 92522
APN# 211-201-021-02 -- PROJECT # 2019-125

OWNER
SHAUN TAN
3087 12 STREET
RIVERSIDE, CA 92522

CONTACT:
TODD NELSON
PRISM AEROSPACE
(951)203-3190

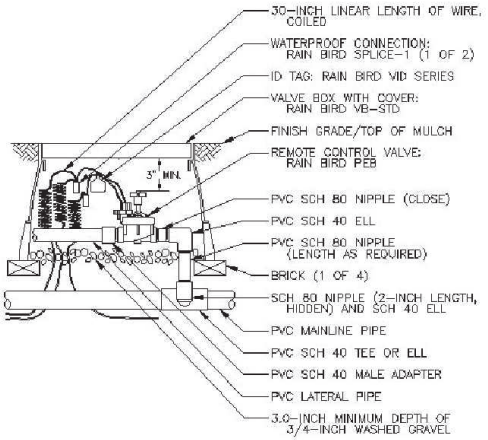
| SUBMITTALS | | BY |
|---|---|---|
| 1 | 8-04-2022 | LWL |
| 2 | 8-11-2023 | LWL |
| 3 | 9-05-2023 | LWL |
| 4 | 4-22-2024 | LWL |
| 5 | 6-27-2024 | LWL |
| 6 | 7-31-2024 | LWL |
| 7 | 10-30-2024 | LWL |

NORTH

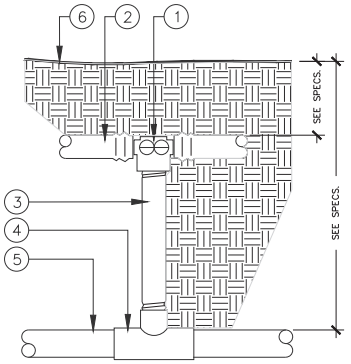
LWL JOB# 2022.04_RIVERSIDE
DRP JOB# NO.2019-125

L-4
4 OF 9

PR-2023-001595 (CUP, LS/DR) Exhibit 8 - Project Plans

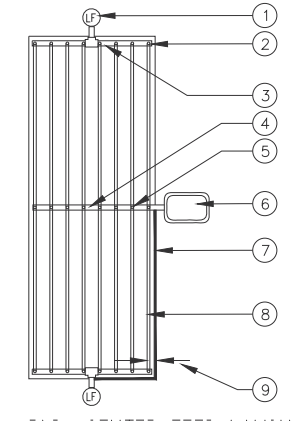



## 1 1" VALVE - PESB
SCALE: N.T.S.



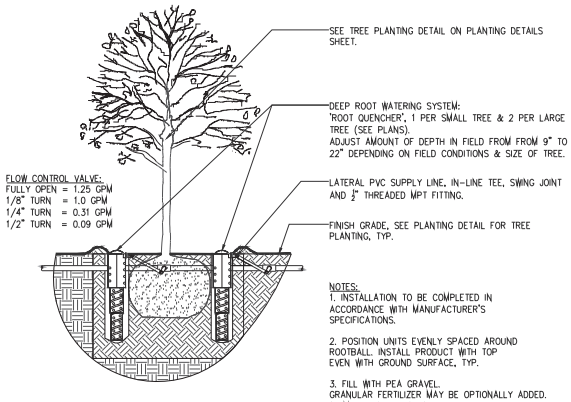

LEGEND:
1. PLD-075-TBTEE.
2. PLD TUBING.
3. ¾" SCH. 80 PVC NIPPLI
4. PVC TEE: S x S x T.
5. PVC PIPING.
6. FINISH GRADE.

## 3 17 MM DRIP SYSTEM START
SCALE: N.T.S.

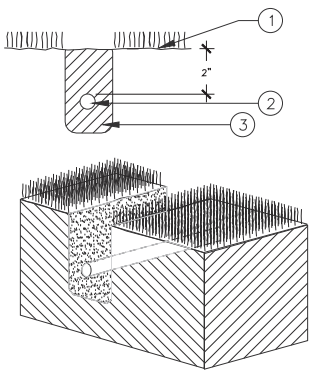



LEGEND:
1. MANUAL LINE FLUSHING VALVE PLUMBED TO PVC OR POLY.
2. PLD START CONNECTION MALE ADAPTER.
3. PVC OR POLY EXHAUST HEADER.
4. PVC OR POLY SUPPLY HEADER.
5. PLD START CONNECTION.
6. REMOTE CONTROL VALVE WITH DISC FILTER AND PRV.
7. AREA PERIMETER.
8. PLD TUBING LATERAL.
9. PERIMETER LATERALS 2" TO 4" FROM EDGE.

## 5 17MM DRIP CENTER FEED LAYOUT
SCALE: N.T.S.

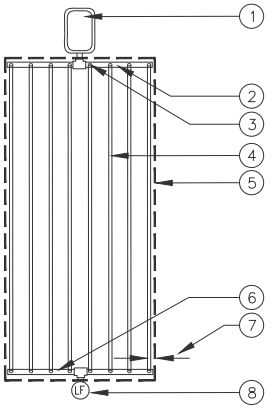



## 2 TREE ROOT ZONE WATERING SYSTEM
SCALE: N.T.S.




LEGEND:
1. FINISH GRADE.
2. PLD LATERAL TUBING, 2" BELOW GRADE.
3. BACKFILLED TRENCH FREE OF DEBRIS.

## 4 17 MM DRIP SYSTEM TRENCHING
SCALE: N.T.S.




LEGEND:
1. REMOTE CONTROL VALVE WITH DISC FILTER AND PRV.
2. PVC OR POLY SUPPLY HEADER.
3. PLD START CONNECTION MALE ADAPTER.
4. PLD TUBING LATERAL.
5. AREA PERIMETER.
6. PVC OR POLY EXHAUST HEADER.
7. PERIMETER LATERALS 2" TO 4" FROM EDGE.
8. MANUAL LINE FLUSHING VALVE PLUMBED TO PVC OR POLY.

## 6 17 MM DRIP END FEED LAYOUT
SCALE: N.T.S.

Low Water Landscapes, Inc.
Folsom, CA 95630
Tel: 916-280-5094 or
Line 2: 916-941-5065
Aaron@LowWaterLandscapes.com

FINAL SUBMITTAL

CONSULTANT
DRP ENTERPRISES LLC
PO BOX 4428
PALM SPRINGS, CA 92263
DANIEL R. PORTER
R.C.E # 26900

PRISM AEROSPACE
NEW PARKING FACILITY LANDSCAPING-10TH @ HOWARD
3087 12TH STREET, RIVERSIDE, CA 92522
APN# 211-201-021-02 -- PROJECT # 2019-125

SHEET TITLE: IRRIGATION DETAILS

OWNER
SHAUN TAN
3087 12 STREET
RIVERSIDE, CA 92522

CONTACT:
TODD NEILSON
PRISM AEROSPACE
(951)203-3190

| SUBMITTALS | BY |
|---|---|
| 1 8-04-2022 | LWL |
| 2 8-11-2023 | LWL |
| 3 9-05-2023 | LWL |
| 4 4-22-2024 | LWL |
| 5 6-27-2024 | LWL |
| 6 7-31-2024 | LWL |
| 7 10-30-2024 | LWL |

NORTH

LWL JOB# 2022.04_RIVERSIDE
DRP JOB# NO.2019-125

L-5
5 OF 9



PR-2023-001595 (CUP, LS/DR) Exhibit 8 - Project Plans

## WATER EFFICIENT LANDSCAPE ORDINANCE

**SUBMITTAL DOCUMENTATION COVERSHEET**

**PROJECT: 3087 12TH ST.**
**JOB#:** *LWL# 2022.04_Riverside*
**DATE:** *07.31.2024 Ver6*

**APPLICANT**

CONTACT NAME: Aaron Reddick, L.A. #6477
TITLE: Principal
COMPANY NAME: Low Water Lansdcapes, Inc.
STREET ADDRESS: 101 Wembley Ct.
CITY, STATE, ZIP: Folsom, CA 95630
TELEPHONE #: 916-260-5094 OR 916-9415085
EMAIL ADDRESS: Aaron@LowWaterLandscapes.com

**PROPERTY OWNER AND/OR REPRESENTATIVE**

CONTACT NAME: Todd Nelson
TITLE:
COMPANY NAME: Prizm Aerospace
STREET ADDRESS: 3087 12th St.
CITY, STATE, ZIP: Riverside, CA 92260
PARCEL, TRACT, OR LOT NUMBER: APN# 211-201-021-02
LATTITUDE/LONGITUDE (Optional):
PROJECT TYPE: Commerical
TOTAL LANDSCAPE AREA: 19,805 S.F.
WATER SUPPLY TYPE: Domestic

**DOCUMENTATION PACKAGE**

| | | |
|---|---|---|
| Water Efficient Landscape Worksheet | X | See Submittal Documentation Package |
| Soil Management Report | X | Preliminary, Final Deferred |
| Landscape Design Plan | X | See Submittal Documentation Package |
| Irrigation Design Plan | X | See Submittal Documentation Package |
| Grading Design Plan | X | See Civil Engineering Plan |

**APPLICANT**

"I agree to comply with the requirements of the water efficient landscape ordinance and submit a complete landscape documentation package."

Aaron W. Reddick — Applicant Signature — 7.31.2024 Date

## WATER EFFICIENT LANDSCAPE WORKSHEET

PROJECT: 3087 12TH ST.
LOCATION: Riverside, CA 92260
JOB#: 2022.04_RiversidePrism
DATE: 07.31.2024

**Appendix B**

This worksheet is filled out by the project applicant and it is a required element of the Landscape Documentation Package.

Reference Evapotranspiration (ETo): 56.4

| Hydrozone # /Planting Description[A] | Plant Factor (PF) | Irrigation Method[B] | Irrigation Efficiency (IE)[C] | ETAF (PF/IE) | Landscape Area (sq. ft.) | ETAF x Area | Estimated Total Water Use (ETWU)[D] |
|---|---|---|---|---|---|---|---|
| **Regular Landscape Areas** | | | | | | | |
| A1 Shrub | 0.30 | Bubblers/Drip | 0.81 | 0.37 | 3,500 | 1296.3 | 45,329 |
| A2 Shrub/GC | 0.30 | Bubblers/Drip | 0.81 | 0.37 | 850 | 314.8 | 11,008 |
| A3 **Tree** | **0.50** | Bubblers/Drip | 0.81 | 0.62 | 175 | 108.0 | 3,777 |
| A4 Shrub | 0.30 | Bubblers/Drip | 0.81 | 0.37 | 1,480 | 548.1 | 19,168 |
| A5 Shrub | 0.30 | Bubblers/Drip | 0.81 | 0.37 | 545 | 201.9 | 7,058 |
| A6 **Tree** | **0.50** | Bubblers/Drip | 0.81 | 0.62 | 50 | 30.9 | 1,079 |
| A7 Shrub | 0.30 | Bubblers/Drip | 0.81 | 0.37 | 405 | 150.0 | 5,245 |
| A8 Shrub | 0.30 | Bubblers/Drip | 0.81 | 0.37 | 2,000 | 740.7 | 25,902 |
| A9 **Shrub/GC** | **0.50** | Bubblers/Drip | 0.81 | 0.62 | 940 | 583.3 | 20,398 |
| A10 Shrub/GC | 0.30 | Bubblers/Drip | 0.81 | 0.37 | 900 | 333.3 | 11,656 |
| A11 Tree | **0.50** | Bubblers/Drip | 0.81 | 0.62 | 475 | 293.2 | 10,253 |
| A12 Shrub | 0.30 | Bubblers/Drip | 0.81 | 0.37 | 2,800 | 1037.0 | 36,263 |
| A13 Shrub/GC | 0.30 | Bubblers/Drip | 0.81 | 0.37 | 1,375 | 509.3 | 17,808 |
| A14 Shrub/GC | 0.30 | Bubblers/Drip | 0.81 | 0.37 | 785 | 290.7 | 10,167 |
| A15 Shrub | 0.30 | Bubblers/Drip | 0.81 | 0.37 | 2,500 | 925.9 | 32,378 |
| A16 Shrub | 0.30 | Bubblers/Drip | 0.81 | 0.37 | 920 | 340.7 | 11,915 |
| A17 **Tree** | **0.50** | Bubblers/Drip | 0.81 | 0.62 | 100 | 61.7 | 2,159 |
| | | | | Totals | **19,805** | **7766.0** | **271,563** |
| **Special Landscape Areas** | | | | | | | |
| | | | | Totals | 0 | 0.00 | 0 |
| | | | | | | ETWU Total | 271,563 |
| | | | | | | Maximum Allowed Water Allowance (MAWA) | 311,644 |

[A] Hydrozone #/Planting Descrip. E.g. 1) front lawn 2) low water use plantings 3) medium water use planting

[B] Irrigation Method overhead spray or drip

[C] Irrigation Efficiency 0.75 for spray head 0.81 for drip

[D] ETWU (Annual Gallons Required) = Eto x 0.62 x ETAF x Area

where 0.62 is a conversion factor that converts acre-inches per acre per year to gallons per square foot per year.

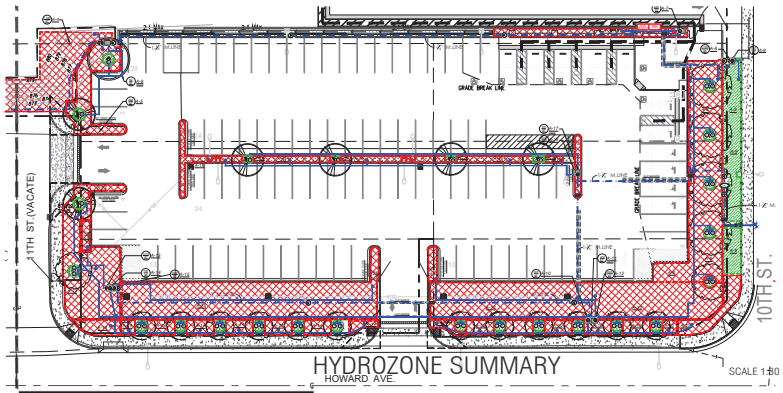
[A] MAWA (Annual Gallons Allowed) = (Eto) (0.62) [(ETAF x LA) + ((1-ETAF) x SLA)]

where 0.62 is a conversion factor that converts acre-inches per acre per year to gallons per square foot per year, LA is the total landscape area in square feet, SLA is the total special landscape area in square feet, and ETAF is .55 for residential areas and 0.45 for non-residential areas.

**ETAF Calculations**

| Regular Landscape Areas | |
|---|---|
| Total ETAF x Area | 7,766 |
| Total Area | 19,805 |
| Average ETAF | 0.39 |
| **All Landscape Areas** | |
| Total ETAF x Area | 7,766 |
| Total Area | 19,805 |
| Sitewide ETAF | 0.39 |

**Average ETAF for Regular Landscape Areas must be 0.55 or below for residential areas, and 0.45 or below for non-residential areas.**




## HYDROZONE SUMMARY

NORTH, ABOVE
SOUTH, BELOW

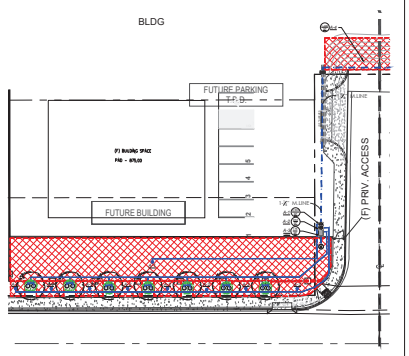
LOW WATER USE ZONE TOTAL: 18,060

MODERATE WATER USE ZONES (INCL TREES ZONES) TOTAL: 1,745

## MWELO CERTIFICATE OF COMPLETION

THE FOLLOWING LANDSCAPE DOCUMENTATION IS TO BE SUBMITTED TO THE BUILDING INSPECTOR AT TIME OF FINAL INSPECTION:

| | |
|---|---|
| CERTIFICATE OF COMPLETION: | COMPLETED BY LANDSCAPE CONTRACTOR AT COMPLETION OF LANDSCAPE. |
| CERTIFICATE OF INSTALLATION: | TO BE PROVIDED BY LANDSCAPE CONTRACTOR OR PROPERTY OWNER AT TIME OF COMPLETION TO THE CITY OF RIVERSIDE |
| SCHEDULE OF LANDSCAPE MAINTANENCE: | TO BE PROVIDED BY LANDSCAPE CONTRACTOR AS PART OF CERTIFICATE OF COMPLETION (C.O.C.) |
| SOIL MANAGEMENT REPORT: | LANDSCAPE CONTRACTOR TO PROVIDE TEST, INCORPORATE RECOMMENDATIONS DURING INSTALLATION AND PROVIDE AS PART OF CERTIFICATE OF COMPLETION (C.O.C.) |
| LANDSCAPE AUDIT REPORTS: | PREPARED BY A CERTIFIED THIRD PARTY. LANDSCAPE IRRIGATION AUDITOR POST INSTALLATION AS PART OF CERTIFICATE OF COMPLETION (C.O.C.) |




## HYDROZONE SUMMARY

SCALE 1:30

## IRRIGATION SCHEDULE

PROJECT: 3087 12TH ST.
LOCATION: Riverside, CA 92260
JOB#: 22.04-RiversidePrism
DATE: 07.31.2024

CONTROLLER: A

| VALVE | GPM | Landscape Area (S.F.) | PLANT TYPE | WATER USE | IRRIGATION METHOD | WATERING DAYS/WK | MAX RUN TIME/ CYCLE | ESTABLISHMENT PERIOD MONTHLY ETO JAN 2.5 | FEB 2.9 | MAR 4.2 | APR 5.3 | MAY 5.9 | JUN 6.6 | JULY 7.2 | AUG 6.9 | SEP 5.4 | OCT 4.1 | NOV 2.9 | DEC 2.6 | MAINTENANCE PERIOD MONTHLY ETO JAN 2.5 | FEB 2.9 | MAR 4.2 | APR 5.3 | MAY 5.9 | JUN 6.6 | JULY 7.2 | AUG 6.9 | SEP 5.4 | OCT 4.1 | NOV 2.9 | DEC 2.6 | PER VALVE PR (In/Yr) | MAWA (Gal/Yr) | ETWU (Gal/Yr) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | RUN TIME IN MINUTES/DAY (4 RUN DAYS PER WEEK) | | | | | | | | | | | | RUN TIME IN MINUTES/DAY (4 RUN DAYS PER WEEK) | | | | | | | | | | | | | | |
| A1 | 10.3 | 3,500 | Shrub | Low | Bubblers/Drip | 4 | 84.73 | 14 | 17 | 24 | 31 | 34 | 38 | 41 | 40 | 31 | 24 | 17 | 15 | 11 | 13 | 19 | 23 | 26 | 29 | 32 | 31 | 24 | 18 | 13 | 12 | 13.85 | 55,075 | 45,329 |
| A2 | 2.6 | 850 | Shrub/GC | Low | Bubblers/Drip | 4 | 81.52 | 14 | 16 | 23 | 29 | 33 | 37 | 40 | 38 | 30 | 23 | 16 | 14 | 11 | 12 | 18 | 23 | 25 | 28 | 31 | 29 | 23 | 17 | 12 | 11 | 13.85 | 13,375 | 11,008 |
| A3 | 7.0 | 175 | **Tree** | **Med** | Bubblers/Drip | 4 | 6.23 | 2 | 2 | 3 | 4 | 4 | 5 | 5 | 5 | 4 | 3 | 2 | 2 | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 4 | 3 | 2 | 2 | 1 | 23.08 | 2,754 | 3,777 |
| A4 | 4.4 | 1,480 | Shrub | Low | Bubblers/Drip | 4 | 83.87 | 14 | 17 | 24 | 30 | 34 | 38 | 41 | 39 | 31 | 23 | 17 | 15 | 11 | 13 | 18 | 23 | 26 | 29 | 32 | 30 | 24 | 18 | 13 | 11 | 13.85 | 23,289 | 19,168 |
| A5 | 2.5 | 545 | Shrub | Low | Bubblers/Drip | 4 | 54.36 | 9 | 11 | 16 | 20 | 22 | 24 | 27 | 25 | 20 | 15 | 11 | 10 | 7 | 8 | 12 | 15 | 17 | 19 | 20 | 20 | 15 | 12 | 8 | 7 | 13.85 | 8,576 | 7,058 |
| A6 | 1.0 | 50 | **Tree** | **Med** | Bubblers/Drip | 4 | 12.47 | 4 | 4 | 6 | 7 | 8 | 9 | 10 | 10 | 8 | 6 | 4 | 4 | 3 | 3 | 5 | 6 | 6 | 7 | 8 | 7 | 6 | 4 | 3 | 3 | 23.08 | 787 | 1,079 |
| A7 | 1.9 | 405 | Shrub | Low | Bubblers/Drip | 4 | 53.15 | 9 | 10 | 15 | 19 | 21 | 24 | 26 | 25 | 20 | 15 | 10 | 9 | 7 | 8 | 12 | 15 | 16 | 18 | 20 | 19 | 15 | 11 | 8 | 7 | 13.85 | 6,373 | 5,245 |
| A8 | 5.9 | 2,000 | Shrub | Low | Bubblers/Drip | 4 | 84.53 | 14 | 17 | 24 | 30 | 34 | 38 | 41 | 40 | 31 | 24 | 17 | 15 | 11 | 13 | 19 | 23 | 26 | 29 | 32 | 30 | 24 | 18 | 13 | 11 | 13.85 | 31,471 | 25,902 |
| A9 | 4.3 | 945 | **Shrub/GC** | **Med** | Bubblers/Drip | 4 | 54.80 | 16 | 18 | 26 | 33 | 37 | 41 | 45 | 43 | 34 | 25 | 18 | 16 | 12 | 14 | 20 | 25 | 28 | 32 | 34 | 33 | 26 | 20 | 14 | 12 | 23.08 | 14,870 | 20,398 |
| A10 | 2.7 | 900 | Shrub/GC | Low | Bubblers/Drip | 4 | 83.12 | 14 | 16 | 24 | 30 | 33 | 37 | 41 | 39 | 30 | 23 | 16 | 15 | 11 | 13 | 18 | 23 | 26 | 29 | 31 | 30 | 23 | 18 | 13 | 11 | 13.85 | 14,162 | 11,656 |
| A11 | 18.5 | 475 | **Tree** | **Med** | Bubblers/Drip | 4 | 6.40 | 2 | 2 | 3 | 4 | 4 | 5 | 5 | 5 | 4 | 3 | 2 | 2 | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 4 | 3 | 2 | 2 | 1 | 23.08 | 7,474 | 10,253 |
| A12 | 8.3 | 2,800 | Shrub | Low | Bubblers/Drip | 4 | 84.12 | 14 | 17 | 24 | 30 | 34 | 38 | 41 | 39 | 31 | 23 | 17 | 15 | 11 | 13 | 18 | 23 | 26 | 29 | 32 | 30 | 24 | 18 | 13 | 11 | 13.85 | 44,060 | 36,263 |
| A13 | 4.1 | 1,375 | Shrub/GC | Low | Bubblers/Drip | 4 | 83.62 | 14 | 16 | 24 | 30 | 34 | 38 | 41 | 39 | 31 | 23 | 16 | 15 | 11 | 13 | 18 | 23 | 26 | 29 | 31 | 30 | 24 | 18 | 13 | 11 | 13.85 | 21,636 | 17,808 |
| A14 | 2.3 | 785 | Shrub/GC | Low | Bubblers/Drip | 4 | 85.10 | 14 | 17 | 24 | 31 | 34 | 38 | 42 | 40 | 31 | 24 | 17 | 15 | 11 | 13 | 19 | 24 | 26 | 29 | 32 | 31 | 24 | 18 | 13 | 12 | 13.85 | 12,352 | 10,167 |
| A15 | 7.4 | 2,500 | Shrub | Low | Bubblers/Drip | 4 | 84.24 | 14 | 17 | 24 | 30 | 34 | 38 | 41 | 39 | 31 | 23 | 17 | 15 | 11 | 13 | 18 | 23 | 26 | 29 | 32 | 30 | 24 | 18 | 13 | 11 | 13.85 | 39,339 | 32,378 |
| A16 | 2.8 | 920 | Shrub | Low | Bubblers/Drip | 4 | 81.93 | 14 | 16 | 23 | 30 | 33 | 37 | 40 | 38 | 30 | 23 | 16 | 14 | 11 | 12 | 18 | 23 | 25 | 28 | 31 | 30 | 23 | 18 | 12 | 11 | 13.85 | 14,477 | 11,915 |
| A17 | 2.0 | 100 | **Tree** | **Med** | Bubblers/Drip | 4 | 12.47 | 4 | 4 | 6 | 7 | 8 | 9 | 10 | 10 | 8 | 6 | 4 | 4 | 3 | 3 | 5 | 6 | 6 | 7 | 8 | 7 | 6 | 4 | 3 | 3 | 23.08 | 1,574 | 2,159 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | TOTAL # OF VALVE | | 17 | | |

| LANDSCAPE AREA | | |
|---|---|---|
| SHRUB | 14,635 | S.F |
| ANNUALS | | S.F |
| TURF | | S.F |
| TREE | 850 | S.F. |
| TEMP | | S.F. |
| **TOTAL** | **15,485** | **S.F.** |

| SPECIAL LA | | |
|---|---|---|
| SHRUB | 0 | S.F. |
| TURF | 0 | S.F. |
| TREE | 0 | S.F. |
| EDIBLE | 0 | S.F. |
| ACTIVE | 0 | S.F. |
| WATER | 0 | S.F. |
| **SLA** | **0** | **S.F.** |

| OTHER | | |
|---|---|---|
| BARK MULCH | - | S.F. |
| D.G. | 0 | S.F. |
| HARDSCAPE | 0 | S.F. |
| SLA | 0 | S.F. |
| **TOTAL AREA** | **15,485** | **S.F.** |

| WATER DEMAND | | |
|---|---|---|
| Maximum Flow Demand | 13 | Gpm/Day |
| Watering Window of | 8 | Hours |
| # of Watering Days/Wk - Turf | N/A | Days |
| # of Watering Days/Wk - Shru | 4 | Days |

| SOILS | YEARLY ETO |
|---|---|
| Texture: Sandy Loam | Riverside UC 56.4 |

MAWA = (YEARLY ET0) (0.62) [(0.45 x LA) + (0.55 x SLA)] — MAWA 311,644

ETWU = (YEARLY ET0)(0.62)((HA x Ks/IE)+SLA) — ETWU 271,563

ETWU 271,563 < MAWA 311,644

**NOTES:**

1. **Run Time in Minutes/Day shall occur on *each Watering Day per Week*. Run Time = Weekly ETO*60/(PR*IE)*Watering Days**
2. **Any irrigation valve whose Precipitation Rate (PR) exceeds the Soil Infiltration Rate (SIR), shall be programmed using the Cycle and Soak feature. Run times in minutes per day shall be divided into the necessary amount of cycles to avoid runoff. Do not exceed Max Cycle Time Maximum Run Time per Cycle shown becomes invalid if there is a slope involved. Visual analysis in the field will be needed to determine Cycle time**
3. **Any landscaped area graded to a slope of 10:1 or greater shall be programed using the Cycle and Soak feature Run times in minutes per day shall be divided in half for each cycle. Do not exceed Max Cycle Time.**
4. **Controllers need to be programmed using multiple program features in order to obtain the maximum flow demand. If necessary, program multiple valves to run simultaneously so that the Maximum Flow Demand is met.**
5. **Establishment period is 6 months for Plant Zones & 12 Months for Tree Bubbler Zones**

**ESTIMATED TOTAL WATER USE:**

This estimate of water use is based on watering properly maintained, established plantings with a water use management plan in place. In providing this estimate of water use, it is recognized that Low Water Landscapes does not have control over the maintenance of the landscaped areas or management of water use. This estimate of water use is based on AB1881 requirements and Low Water Landscape's reasonable professional judgement and experience and does not constitute a warranty, express or implied, that the actual water use will not vary from this estimate.

**SOIL TYPE**

HANFORD COARSE SANDY LOAM (HcC)
SOURCE: UC DAVIS SOIL WEB
MWELO TEXTURE RATING USED:
SOIL CEC RANGE: 3-8 'SANDY LOAM'
M.A.D.=.5

Underground Service Alert
Call: TOLL FREE 1-800 227-2600
TWO WORKING DAYS BEFORE YOU DIG

NOTE:
I HAVE COMPLIED WITH THE CRITERIA OF THE MODEL WATER CONSERVATION LANDSCAPING ORDINANCE, 'APPENDIX D' AND APPLIED THEM TO THE EFFICIENT USE OF WATER IN THE IRRIGATION DESIGN PLAN.

Aaron W. Reddick 07.31.2024
CA L.A.#6477
LOW WATER LANDSCAPES

## NOTE: MWELO *PERFORMANCE* COMPLIANCE (OVER 2,500 SF)

| TOTAL IRRIGATED LANDSCAPE AREA: | 19,805 SF | 100.0% |
|---|---|---|
| LOW WATER USE PLANTING AREA: | 18,060 SF | 91.2% |
| MODERATE USE AREAS: | 1,745 SF | 8.8% |
| HIGH WATER USE TURF AREA: | 0 SF | 0 % |
| TOTAL: | | 100.0 % |


Low Water Landscapes, Inc.
Folsom, CA 95630
Tel: 916-260-5094 or
Line 2: 916-941-5085
Aaron@LowWaterLandscapes.com


FINAL SUBMITTAL

CONSULTANT
DRP ENTERPRISES LLC
PO BOX 4428
PALM SPRINGS, CA 92263
ROBERT E. PRATER
R.C.E. # 26900

SHEET TITLE: IRRIGATION SCHEDULE & MWELO CALCS
PRISM AEROSPACE
NEW PARKING FACILITY LANDSCAPING-10TH @ HOWARD
3087 12TH STREET, RIVERSIDE, CA 92522
APN# 211-201-021-02 -- PROJECT # 2019-125

OWNER
SHAUN TAN
3087 12 STREET
RIVERSIDE, CA 92522
CONTACT:
TODD NELSON
PRISM AEROSPACE
(951)203-3190

SUBMITTALS BY

| | | |
|---|---|---|
| 1 | 8-04-2022 | LWL |
| 2 | 8-11-2023 | LWL |
| 3 | 9-05-2023 | LWL |
| 4 | 4-22-2024 | LWL |
| 5 | 6-27-2024 | LWL |
| 6 | 7-31-2024 | LWL |
| 7 | 10-30-2024 | LWL |

NORTH

LWL JOB# 2022.04_RIVERSIDE
DRP JOB# NO.2019-125

L-6
6 OF 9



10/30/2024 1:50:30 PM, ARCH expand D (36.00 x 24.00 Inches), 1:1

## FINE GRADING NOTES

1. THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR FINE GRADING AND POSITIVE SURFACE DRAINAGE IN ALL LANDSCAPE AREAS. THE CONTRACTOR SHALL VERIFY ALL ROUGH GRADES IN THE FIELD AND BRING ANY DISCREPANCIES TO THE ATTENTION OF THE GENERAL CONTRACTOR, LANDSCAPE ARCHITECT AND CIVIL ENGINEER FOR A DECISION BEFORE PROCEEDING WITH THE WORK.

2. SEE LEA & BRAZE DRAWING FOR ROAD SURFACE ELEVATIONS, ROADWAY SECTIONS, CATCH BASINS, SIDEWALKS, AND TOP OF CURB ELEVATIONS.

3. CONTRACTORS ARE TO EXERCISE EXTREME CARE IN BACKFILLING AND COMPACTING ANY EXCAVATION OR TRENCHING IN AREAS PREVIOUSLY COMPACTED FOR OTHER ASPECTS OF THE WORK.

4. THE LANDSCAPE CONTRACTOR SHALL REMOVE FROM THE SITE ALL DEBRIS AND UNSUITABLE MATERIAL GENERATED BY THEIR CONSTRUCTION OPERATIONS.

5. ALL ON-GRADE AREAS MARKED FOR PLANTING SHALL BE VERIFIED, BY THE FINE GRADING CONTRACTOR, THAT THEY ARE WITHIN A TENTH OF A FOOT OF FINAL GRADE. THE LANDSCAPE CONTRACTOR SHALL RIP COMPACTED ROUGH GRADED SOIL TO A DEPTH OF 12 INCHES IN BOTH DIRECTIONS, THEN TILL IN THE SOIL AMENDMENT. SOIL AMENDMENT SHALL BE DETERMINED BY AN AGRICULTURAL SUITABILITY'S ANALYSIS (SEE PLANTING NOTE 5). A MINIMUM OF ONE FOOT DEPTH OF NONMECHANICALLY COMPACTED SOIL IS AVAILABLE FOR WATER ABSORPTION AND ROOT GROWTH IN PLANTED AREAS.

6. REVIEW STRUCTURAL SOILS REPORT FOR RECOMMENDATIONS ON SOIL TYPE, GRADING PROCEDURES, SOIL COMPACTION, MAXIMUM ALLOWABLE SLOPES, FLATWORK BASE MATERIAL, ETC. COPIES OF THE REPORT ARE AVAILABLE FROM THE OWNER.

7. MINIMUM PAVING SLOPE TO BE TYPICALLY 1 PERCENT. MINIMUM PLANTING AREA SLOPE TO BE TYPICALLY 2 PERCENT. BRING ANY DISCREPANCIES TO THE ATTENTION OF THE LANDSCAPE ARCHITECT FOR A DECISION PRIOR TO FINE GRADING.

8. GROUNDCOVER / SHRUB AREAS: FINISH GRADES SHALL BE 2" INCHES BELOW THE TOP OF ADJACENT PAVEMENT, HEADERS, CURBS, OR WALLS, UNLESS OTHERWISE SPECIFIED. FINISHED GRADES ARE DETERMINED AFTER THE APPLICATION OF ALL SOIL AMENDMENTS. LOWER HEADERS WHERE REQUIRED TO ALLOW WATER TO FLOW TO DRAINAGE STRUCTURES.

## PLANTING NOTES:

THE SCOPE OF THE PLANTING WORK INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING:
A. ORDERING & DELIVERY OF THE PLANT MATERIALS TO SITE.
B. SOIL PREPARATION AND CONDITIONING.
C. FINE GRADING OF ALL LANDSCAPE AREAS, INCLUDING SUPPLYING & INSTALLING AMENDMENTS OR IMPORTED TOPSOIL AS DESCRIBED ON THE DRAWINGS AND AS REQUIRED BY THE RECOMMENDATIONS OF THE SOILS TESTING REPORT IF REQUIRED.
D. COORDINATION OF ADDITIONAL DRAINAGE WORK AS SHOWN ON THE DRAWINGS.
E. SOIL TESTING BY LANDSCAPE CONTRACTOR.
F. INSTALLATION OF PLANT MATERIALS.
G. NINETY (90) DAY MAINTENANCE PERIOD.
H. REPLACEMENT OF ALL UNSATISFACTORY PLANT MATERIALS.
I. FINAL APPROVAL
J. WARRANTY

1. PLANT LOCATIONS ARE DIAGRAMMATIC AND ARE TO BE ADJUSTED IN THE FIELD AS NECESSARY TO SCREEN UTILITIES BUT NOT IMPEDE ACCESS. IF A DISCREPANCY BETWEEN THESE PLANS AND ACTUAL ON-SITE CONDITIONS OCCURS, THE CONTRACTOR IS TO NOTIFY THE OWNER IMMEDIATELY BEFORE PROCEEDING WITH WORK FOR A DECISION.

2. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH STATE AND LOCAL CITY OF RIVERSIDE CODES, INCLUDING MWELO PERFORMANCE REQUIREMENTS.

3. ALL PLANTS BROUGHT ONTO THE SITE SHALL BE WATERED AND PROTECTED FROM EXCESSIVE WIND, SUN, FROST, PHYSICAL DAMAGE AND THEFT UNTIL INSTALLATION. ALL CONCRETE, ASPHALT, BASE COURSE MATERIALS AND OTHER DEBRIS ARE TO BE COMPLETELY REMOVED BELOW PLANTING AREAS.

4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR POSITIVE SURFACE DRAINAGE AT 2% MINIMUM
IN PLANTING AREA EXCEPT WHERE OTHERWISE SHOWN ON CIVIL OR LANDSCAPE GRADING PLANS.

5. "A MINIMUM 3-INCH LAYER OF ORGANIC MULCH SHALL BE APPLIED ON ALL EXPOSED SOIL SURFACES OF PLANTING AREAS EXCEPT TURF AREAS, CREEPING OR ROOTING GROUNDCOVERS, OR DIRECT SEEDING APPLICATIONS WHERE MULCH IS CONTRAINDICATED."

6. APPLY AGRIFORM FERTILIZER TABLETS OR EQUIVALENT 'BEST' BRAND PACKETS TO ALL NEW TREES, 15 GALLON, & 5 GALLONS SIZED SHRUBS. DO NOT APPLY TO SUCCULENT PLANTS.

7. UNLESS CONTRADICTED BY A SOILS TEST, COMPOST AT A RATE OF A MINIMUM OF FOUR CUBIC YARDS PER 1,000 SQUARE FEET OF PERMEABLE AREA SHALL BE INCORPORATED TO A DEPTH OF SIX INCHES INTO THE SOIL IN PLANTING PITS

## GENERAL SOIL PREPARATION NOTES:

***SOIL PREPARATION:***

Materials recommended per 1,000 square feet
200 lbs. Gro-Power® Plus
20 lbs. dolomite lime
3 cu. yd. of nitrolized shavings or good quality compost

Apply recommended materials and rototill a minimum of two directions, to a depth of 6 inches. After soil preparation, but prior to planting, irrigate with overhead irrigation so that a minimum of 1-3 inches of good quality water passes through the soil profile, beyond the root zone.

***BACKFILL:***

Materials recommended per cubic yard of mix
70% native on site soil, by volume
30% nitrolized shavings or good quality compost
16 lbs. Gro-Power® Plus
1 lb. dolomite lime
Gro-Power® Planting Tablets for extended feed/conditioning

Dig planting pits 1½ times the width and 1 time the depth of the root ball. Fill pits with backfill mix to the depth of the root ball and irrigate thoroughly. Be sure entire root ball area is covered when planting.

***MAINTENANCE:***

Initially feed with 20 lbs. Gro-Power® Plus per 1,000 sq. ft. on day 45 and 85. Thereafter, feed with same product at same rate every 8 to 12 weeks, depending on usage and/or desired level of maintenance. You might consider alternating with a balanced chemical fertilizer, so that ½ to 1 lb. of nitrogen is applied per 1,000 sq. ft. or, Gro-Power® Premium Hi-Nitrogen (18-3-7/ER) at 8-½ lbs. per 1,000 sq. ft.

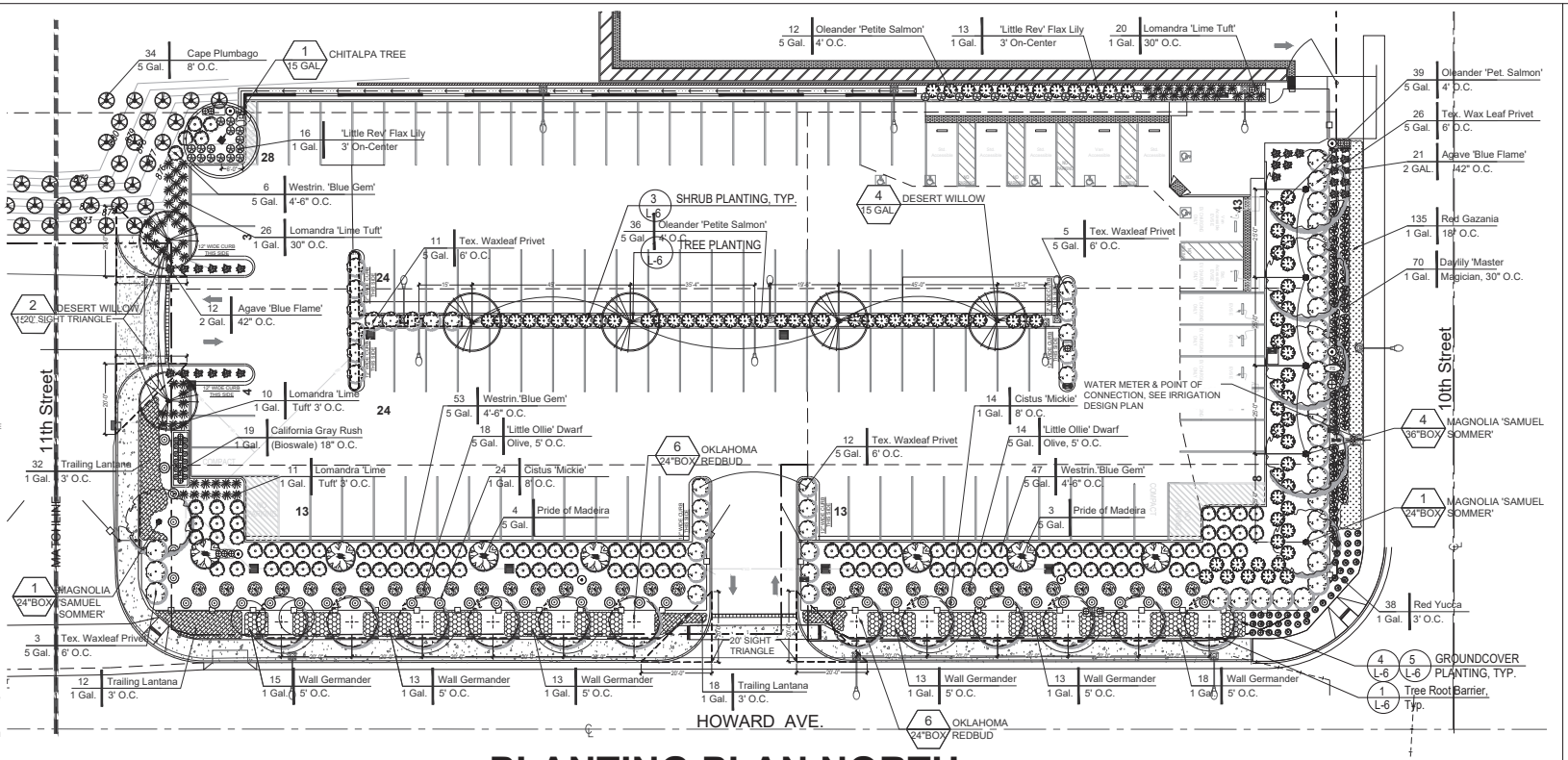
- Gro-Power® Flower 'N' Bloom (3-12-12) at 20 lbs. per 1,000 sq. ft. is an excellent product for color and blooming plants.
- See enclosed Long Term Maintenance Schedule for more specific recommendations.

***EVALUATION OF SOIL ELEMENTS:***

1. pH is LOW, indicating acidic soil. Addition of some lime will aid in raising pH to more acceptable level.
2. EC (soluble salts) is LOW. Within optimum range for most plant material.
3. Boron is LOW. No toxicity problem.
4. Exchangeable sodium is LOW, with some balance provided by magnesium and calcium.
5. Major nutrients: Nitrogen is VERY LOW- Phosphorus is LOW- Potassium is MODERATE:
   Gro-Power® products used at specified rates will provide adequate major and
   micronutrients for plant establishment and vigorous growth.

***SPECIAL COMMENTS:***

1. Amendments are more effective when thoroughly mixed into the soil. Note excessive lime applied to soil surface can lead to surface sealing.




# PLANTING PLAN NORTH

SCALE: 1"=16'-0"
0 4' 8' 16' 32'
FEET

**PLANTING SCHEDULE - Prism Aerospace Parking Lot, Region 4** Ver7_10.30.2024

| SYMBOL | QUANT. | NURSERY SIZE | BOTANICAL NAME | COMMON NAME | WUCOLS RATING | SIZE H X W | COMMENTS |
|---|---|---|---|---|---|---|---|
| **TREES** | | | | | | | |
| | 19 | 24" BOX | CERCIS CANADENSIS 'OKLAHOMA' | OKLAHOMA REDBUD | MOD | 15'X 15' | STANDARD |
| | 6 | 15 GAL. | CHILOPSIS LINEARIS | DESERT WILLOW | LOW | 15'X 15' | STANDARD |
| | 1 | 15 GAL. | CHITALPA TASHKENTENSIS | CHITALPA | LOW | 25'X 25' | STANDARD FORM |
| | 2 | 24" BOX | MAGNOLIA GRANDIFLORA 'SAMUEL SOMMER' | MAGNOLIA 'SAMUEL SOMMER' | MOD | 30-40' H X 30' W | STANDARD FORM |
| | 4 | 36" BOX | MAGNOLIA GRANDIFLORA 'SAMUEL SOMMER' | SOUTHERN MAGNOLIA 'SAMUEL SOMMER' | MOD | 30-40' H X 30' W | STANDARD FORM |

| SYMBOL | QUANT. | NURSERY SIZE | BOTANICAL NAME | COMMON NAME | WUCOLS RATING | SIZE H X W | COMMENTS |
|---|---|---|---|---|---|---|---|
| **SHRUBS** | | | | | | | |
| | 57 | 1 GAL. | CISTUS X HYBRIDUS 'MICKIE' | 'MICKIE' ROCKROSE | LOW | 3'X 3' | 4' OR 8' O.C. |
| | 11 | 5 GAL. | ECHIUM CANDICANS | PRIDE OF MADEIRA | LOW | 6'X 8' | PER PLAN |
| | 70 | 1 GAL. | HEMEROCALLIS 'MASTER MAGICIAN' | DAYLILY 'MASTER MAGICIAN' | MOD | 2'X 2' | 30" IN O.C. |
| | 60 | 15 GAL. | LIGUSTRUM JAPONICUM 'TEXANUM' | TEXAS WAX-LEAF PRIVET | LOW | 6'X 6' | 6' O.C. |
| | 87 | 5 GAL. | NERIUM 'PETITE SALMON' | DWARF OLEANDER 'PETITE SALMON' | LOW | 3'X 3' | 4' O.C. |
| | 51 | 5 GAL. | OLEA EUROPAEA 'MONTRA' | LITTLE OLLIE' DWARF OLIVE | LOW | 3'X 5' | 8 TO 10' O.C. |
| | 34 | 5 GAL. | PLUMBAGO AURICULATA 'MONOTT' | ROYAL CAPE PLUMBAGO | LOW | 3'X 5' | 8' O.C. |
| | 168 | 5 GAL. | WESTRINGIA FRUTICOSA 'BLUE GEM' | BLUE GEM' COAST ROSEMARY | LOW | 5'X 5' | 4-6' O.C. |
| **SUCCULENTS** | | | | | | | |
| | 33 | 2 GAL | AGAVE 'BLUE FLAME' | 'BLUE FLAME' AGAVE | LOW | 3'X 3' | 3-6" O.C. |
| | 38 | 1 GAL. | HESPERALOE PARVIFOLIA | RED YUCCA | LOW | 3'X 1.5' | 3' O.C. |
| **GRASSES** | | | | | | | |
| | 29 | 1 GAL. | DIANELLA REVOLUTA 'LITTLE REV' | 'LITTLE REV' FLAX LILY | LOW | 2'X 2' | 2' / 3' O.C. |
| | 19 | 1 GAL | JUNCUS PATENS 'ELK BLUE' | CALIFORNIA GRAY RUSH | LOW | 1'X 1' | *BIOSWALE: 18" O.C. |
| | 35 | 1 GAL. | LOMANDRA LONGIFOLIA 'LOMONY' | LIME TUFT' DWARF MAT RUSH | LOW | 2'X 2' | 30" IN O.C. |
| **GROUNDCOVERS** | | | | | | | |
| | 125 | 1 GAL. | GAZANIA X 'FIESTA RED' | RED GAZANIA | MOD | 4"X 12' | 3' O.C., TRIANGULAR |
| | 42 | 1 GAL. | LANTANA MONTEVIDENSIS | PURPLE TRAILING LANTANA | LOW | 3'X 4' | 36" O.C., SQUARE |
| | 147 | 1 GAL. | TEUCRIUM CHAMAEDRYS | WALL GERMANDER | LOW | 1'X 4' | 5' O.C. TRIANGULAR |

TREE TAGS
QTY. — 1 — ABBREVIATED NAME LAG-DYN — 15 GAL — NURSERY SIZE

SHRUB / GROUNDCOVER TAGS:
QTY. — 1 — COMMON NAME
NAME — 1 GAL — SPACING, IF APPLIES — 3' O.C.
NURSERY SIZE

| TREE NURSERY BOX SIZE REQUIREMENT: (20% OF TOTAL TREES = 24" BOX, 10% OF TOTAL TREES = 36" BOX) | | |
|---|---|---|
| 32 | TOTAL TREECOUNT | |
| 65.5% | PERCENTAGE OF 24" BOX | ✓PROJECT MEETS / EXCEEDS REQUIREMENT |
| 12.5% | PERCENTAGE OF 36" BOX | ✓PROJECT MEETS / EXCEEDS REQUIREMENT |

Underground Service Alert
Call: TOLL FREE 1-800 227-2600
TWO WORKING DAYS BEFORE YOU DIG

NOTE:
I HAVE COMPLIED WITH THE CRITERIA OF THE WATER CONSERVATION LANDSCAPING ORDINANCE AND APPLIED THEM TO THE EFFICIENT USE OF WATER IN THE LANDSCAPE DESIGN PLAN.

AARON W. REDDICK 07.31.2024
CA L.A.#6477
LOW WATER LANDSCAPES

NOTE: MWELO *PERFORMANCE* COMPLIANCE (OVER 2,500 SF)

| | | |
|---|---|---|
| TOTAL IRRIGATED LANDSCAPE AREA: | 19,805 SF | 100.0% |
| LOW WATER USE PLANTING AREA: | 18,060 SF | 91.2% |
| MODERATE USE AREAS: | 1,745 SF | 8.8% |
| HIGH WATER USE TURF AREA: | 0 SF | 0 % |
| TOTAL: | | 100.0 % |

Low Water Landscapes, Inc.
Folsom, CA 95630
Tel: 916-280-5094 or
Line 2: 916-941-5065
Aaron@LowWaterLandscapes.com

FINAL SUBMITTAL

CONSULTANT
DRP ENTERPRISES LLC
PO BOX 4428
PALM SPRINGS, CA 92263
ROBERT PETERSEN, P.E.
R.C.E. # 26900

SHEET TITLE: PLANTING PLAN NORTH & NOTES
PRISM AEROSPACE
NEW PARKING FACILITY LANDSCAPING-10TH @ HOWARD
3087 12TH STREET, RIVERSIDE, CA 92522
APN# 211-201-021-02 -- PROJECT # 2019-125

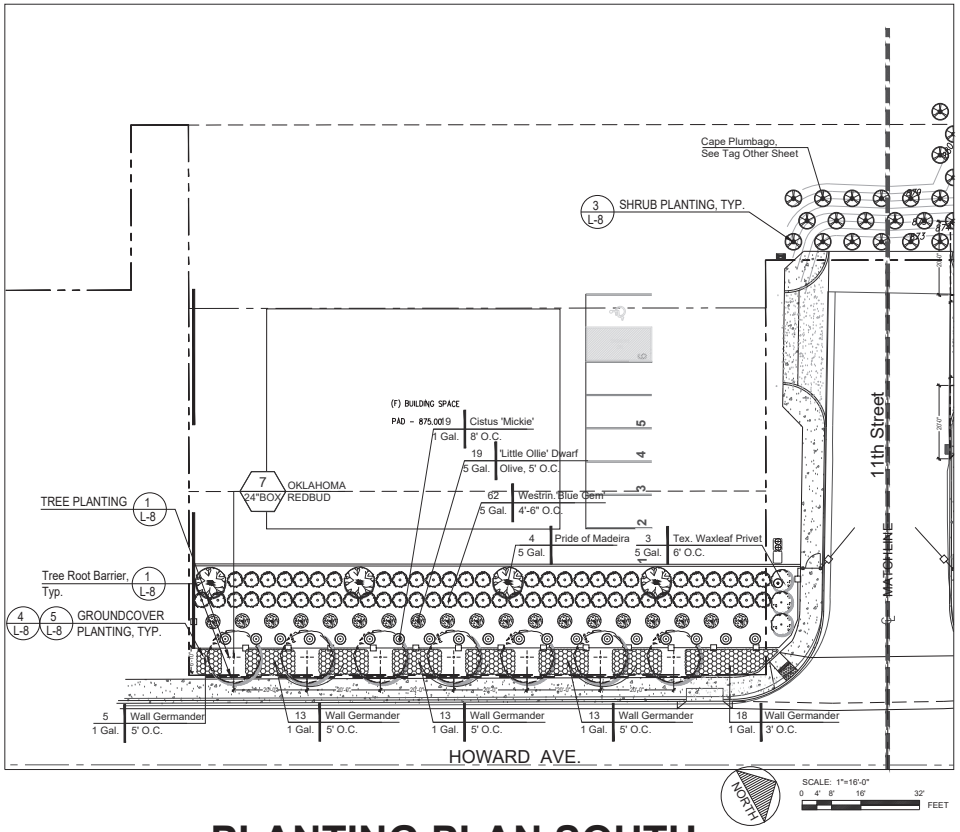
OWNER
SHAUN TAN
3087 12TH STREET
RIVERSIDE, CA 92522

CONTACT:
TODD NELSON
PRISM AEROSPACE
(951)203-3190

| SUBMITTALS | BY |
|---|---|
| 1 8-04-2022 | LWL |
| 2 8-11-2023 | LWL |
| 3 9-05-2023 | LWL |
| 4 4-22-2024 | LWL |
| 5 6-27-2024 | LWL |
| 6 7-31-2024 | LWL |
| 7 10-30-2024 | LWL |

LWL JOB# 2022.04_RIVERSIDE
DRP JOB# NO.2019-125

L-7
7 OF 9



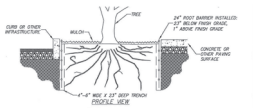

# PLANTING PLAN SOUTH

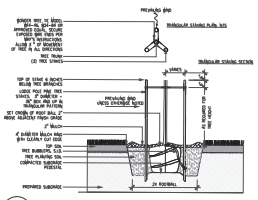
**PLANTING SCHEDULE - Prism Aerospace Parking Lot, Region 4** Ver7_10.30.2024

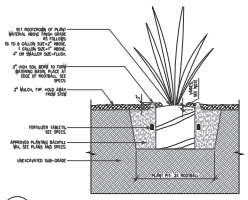
| SYMBOL | QUANT. | NURSERY SIZE | BOTANICAL NAME | COMMON NAME | WUCOLS RATING | SIZE H X W | COMMENTS |
|---|---|---|---|---|---|---|---|
| **TREES** | | | | | | | |
| | 19 | 24" BOX | CERCIS CANADENSIS 'OKLAHOMA' | OKLAHOMA REDBUD | MOD | 15'X 15' | STANDARD |
| | 6 | 15 GAL. | CHILOPSIS LINEARIS | DESERT WILLOW | LOW | 15'X 15' | STANDARD |
| | 1 | 15 GAL. | CHITALPA TASHKENTENSIS | CHITALPA | LOW | 25'X 25' | STANDARD FORM |
| | 2 | 24" BOX | MAGNOLIA GRANDIFLORA 'SAMUEL SOMMER' | MAGNOLIA 'SAMUEL SOMMER' | MOD | 30-40' H x 30' W | STANDARD FORM |
| | 4 | 36" BOX | MAGNOLIA GRANDIFLORA 'SAMUEL SOMMER' | SOUTHERN MAGNOLIA 'SAMUEL SOMMER' | MOD | 30-40' H x 30' W | STANDARD FORM |
| TREE NURSERY BOX SIZE REQUIREMENT: (20% OF TOTAL TREES = 24" BOX, 10% OF TOTAL TREES = 36" BOX) | | | | | | | |
| | 32 | TOTAL TREECOUNT | | | | | |
| | 65.5% | PERCENTAGE OF 24" BOX | | ✓PROJECT MEETS / EXCEEDS REQUIREMENT | | | |
| | 12.5% | PERCENTAGE OF 36" BOX | | ✓PROJECT MEETS / EXCEEDS REQUIREMENT | | | |
| **SHRUBS** | | | | | | | |
| | 57 | 1 GAL. | CISTUS X HYBRIDUS 'MICKIE' | 'MICKIE' ROCKROSE | LOW | 2'X3' | 4' OR 8' O.C. |
| | 11 | 5 GAL. | ECHIUM CANDICANS | PRIDE OF MADEIRA | LOW | 6'X8' | PER PLAN |
| | 70 | 1 GAL. | HEMEROCALLIS 'MASTER MAGICIAN' | DAYLILY 'MASTER MAGICIAN' | MOD | 2'X2' | 30" IN O.C. |
| | 60 | 15 GAL. | LIGUSTRUM JAPONICUM 'TEXANUM' | TEXAS WAX-LEAF PRIVET | LOW | 6'X6' | 6' O.C. |
| | 87 | 5 GAL. | NERIUM 'PETITE SALMON' | DWARF OLEANDER 'PETITE SALMON' | LOW | 3'X3' | 4' O.C. |
| | 51 | 5 GAL. | OLEA EUROPAEA 'MONTRA' | LITTLE OLLIE' DWARF OLIVE | LOW | 3'X5' | 8 TO 10' O.C. |
| | 34 | 5 GAL. | PLUMBAGO AURICULATA 'MONOTT' | ROYAL CAPE PLUMBAGO | LOW | 3'X5' | 8' O.C. |
| | 168 | 5 GAL. | WESTRINGIA FRUTICOSA 'BLUE GEM' | BLUE GEM' COAST ROSEMARY | LOW | 5'X5' | 4-6' O.C. |
| **SUCCULENTS** | | | | | | | |
| | 33 | 2 GAL | AGAVE 'BLUE FLAME' | 'BLUE FLAME' AGAVE | LOW | 3'X3' | 3-6' O.C. |
| | 38 | 1 GAL. | HESPERALOE PARVIFOLIA | RED YUCCA | LOW | 3'X1.5' | 3' O.C. |
| **GRASSES** | | | | | | | |
| | 29 | 1 GAL. | DIANELLA REVOLUTA 'LITTLE REV' | 'LITTLE REV' FLAX LILY | LOW | 2'X2' | 2' / 3' O.C. |
| | 19 | 1 GAL. | JUNCUS PATENS 'ELK BLUE' | CALIFORNIA GRAY RUSH | LOW | 1'X1' | "BOSWALE; 18" O.C. |
| | 35 | 1 GAL. | LOMANDRA LONGIFOLIA 'LOMRON' | LIME TUFT' DWARF MAT RUSH | LOW | 2'X2' | 30" IN O.C. |
| **GROUNDCOVERS** | | | | | | | |
| | 125 | 1 GAL. | GAZANIA X 'FIESTA RED' | RED GAZANIA | MOD | 4"X 12" | 2' O.C., TRIANGULAR |
| | 42 | 1 GAL. | LANTANA MONTEVIDENSIS | PURPLE TRAILING LANTANA | LOW | 2'X 4' | 36" O.C., SQUARE |
| | 147 | 1 GAL. | TEUCRIUM CHAMAEDRYS | WALL GERMANDER | LOW | 1'X 4' | 5' O.C. TRIANGULAR |

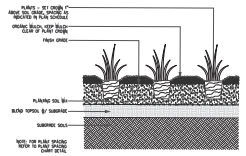
TREE TAGS: QTY. / ABBREVIATED NAME — LAGOYN — 15 GAL — NURSERY SIZE

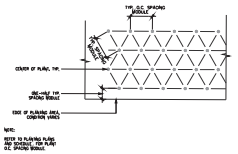
SHRUB / GROUNDCOVER TAGS: QTY. / COMMON NAME — NAME — 1 GAL — 3' O.C. — SPACING, IF APPLIES — NURSERY SIZE


1 TREE ROOT BARRIER
SCALE: N.T.S.


2 TREE PLANTING
SCALE: 1/4" = 1'-0"


3 SHRUB PLANTING
SCALE: 1/2" = 1'-0"


4 GROUNDCOVER PLANTING
SCALE: 1/4" = 1'-0"


5 GROUNDCOVER SPACING
SCALE: N.T.S.

Underground Service Alert
Call: TOLL FREE 1–800 227–2600
TWO WORKING DAYS BEFORE YOU DIG

NOTE:
I HAVE COMPLIED WITH THE CRITERIA OF THE WATER CONSERVATION LANDSCAPING ORDINANCE AND APPLIED THEM TO THE EFFICIENT USE OF WATER IN THE LANDSCAPE DESIGN PLAN.

AARON W. REDDICK 07.31.2024
CA L.A.#6477
LOW WATER LANDSCAPES

NOTE: MWELO *PERFORMANCE* COMPLIANCE (OVER 2,500 SF)

| | | |
|---|---|---|
| TOTAL IRRIGATED LANDSCAPE AREA: | 19,805 SF | 100.0% |
| LOW WATER USE PLANTING AREA: | 18,060 SF | 91.2% |
| MODERATE USE AREAS: | 1,745 SF | 8.8% |
| HIGH WATER USE TURF AREA: | 0 SF | 0 % |
| TOTAL: | | 100.0 % |

Low Water Landscapes, Inc.
Folsom, CA 95630
Tel: 916-280-5094 or
Line 2: 916-941-5065
Aaron@LowWaterLandscapes.com

FINAL SUBMITTAL

CONSULTANT
DRP ENTERPRISES LLC
PO BOX 4428
PALM SPRINGS, CA 92263
DAVID R. PRICE
R.C.E. # 26900

SHEET TITLE: PLANTING PLAN SOUTH & DETAILS

PRISM AEROSPACE
NEW PARKING FACILITY LANDSCAPING-10TH @ HOWARD
3087 12TH STREET, RIVERSIDE, CA 92522
APN# 211-201-021-02 -- PROJECT # 2019-125

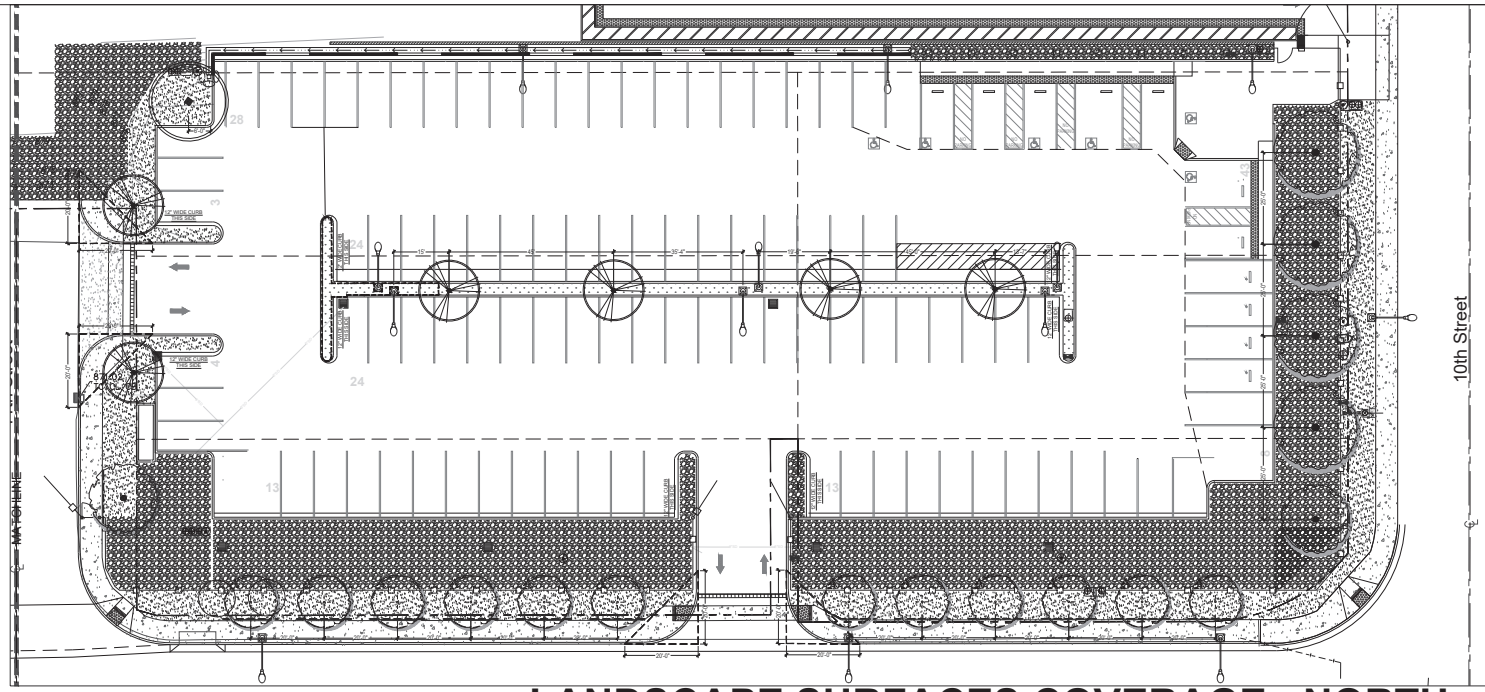
OWNER
SHAUN TAN
3087 12 STREET
RIVERSIDE, CA 92522
CONTACT:
TODD NELSON
PRISM AEROSPACE
(951)203-3190

| SUBMITTALS | BY |
|---|---|
| 1 8-04-2022 | LWL |
| 2 8-11-2023 | LWL |
| 3 9-05-2023 | LWL |
| 4 4-22-2024 | LWL |
| 5 6-27-2024 | LWL |
| 6 7-31-2024 | LWL |
| 7 10-30-2024 | LWL |

NORTH

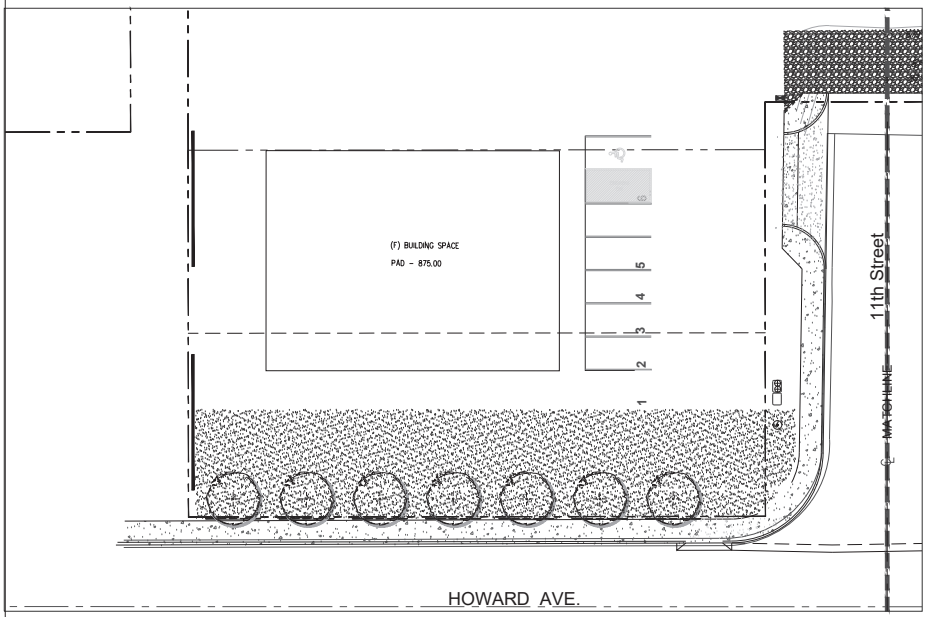
LWL JOB# 2022.04_RIVERSIDE
DRP JOB# NO.2019-125

L-8
8 OF 9




# LANDSCAPE SURFACES COVERAGE - NORTH

SCALE: 1"=16'-0"
0 4' 8' 16' 32'
FEET




# LANDSCAPE SURFACES COVERAGE - SOUTH

SCALE: 1"=16'-0"
0 4' 8' 16' 32'
FEET

## NEW MATERIALS LEGEND

**9,250 SF**
2.5" DECOMPOSSED GRANITE OVER OVER NON-WOVEN, COMMERICAL GRADE GEO FABRIC, 3 OZ. OR BETTER

**11,200 SF**
2.5" THICK 3/4" DESERT GOLD ROCK COVER OVER NON-WOVEN, COMMERICAL GRADE GEO FABRIC, 3 OZ. OR BETTER

Underground Service Alert
Call: TOLL FREE
1-800
227-2600
TWO WORKING DAYS BEFORE YOU DIG

NOTE:
I HAVE COMPLIED WITH THE CRITERIA OF THE WATER CONSERVATION LANDSCAPING ORDINANCE AND APPLIED THEM TO THE EFFICIENT USE OF WATER IN THE LANDSCAPE DESIGN PLAN.

AARON W. REDDICK 07.31.2024
CA L.A.#6477
LOW WATER LANDSCAPES

## NOTE: MWELO *PERFORMANCE* COMPLIANCE (OVER 2,500 SF)

| | | |
|---|---|---|
| TOTAL IRRIGATED LANDSCAPE AREA: | 19,805 SF | 100.0% |
| LOW WATER USE PLANTING AREA: | 18,060 SF | 91.2% |
| MODERATE USE AREAS: | 1,745 SF | 8.8% |
| HIGH WATER USE TURF AREA: | 0 SF | 0 % |
| TOTAL: | | 100.0 % |

Low Water Landscapes, Inc.
Folsom, CA 95630
Tel: 916-280-5094 or
Line 2: 916-941-5065
Aaron@LowWaterLandscapes.com

FINAL SUBMITTAL

CONSULTANT
DRP ENTERPRISES LLC
PO BOX 4428
PALM SPRINGS, CA 92263
JOHN MESSER
R.C.E. # 26900

SHEET TITLE: LANDSCAPE SURFACES COVERAGE

OWNER
SHAUN TAN
3057 12 STREET
RIVERSIDE, CA 92522

PRISM AEROSPACE
NEW PARKING FACILITY LANDSCAPING-10TH @ HOWARD
3057 12TH STREET, RIVERSIDE, CA 92522
APN# 211-201-021-02 -- PROJECT # 2019-125

CONTACT:
TODD NELSON
PRISM AEROSPACE
(951)203-3190

| SUBMITTALS | BY |
|---|---|
| 1 8-04-2022 | LWL |
| 2 8-11-2023 | LWL |
| 3 9-05-2023 | LWL |
| 4 4-22-2024 | LWL |
| 5 6-27-2024 | LWL |
| 6 7-31-2024 | LWL |
| 7 10-30-2024 | LWL |

LWL JOB# 2022.04_RIVERSIDE
DRP JOB# NO.2019-125

L-9
9 OF 9

## APPLICABLE CODES & STANDARDS

APPLICABLE CODES AS OF JANUARY 1, 2023

| | | | |
|---|---|---|---|
| LISTING | | | |
| | CITY OF RIVERSIDE BUILDING CODE, TITLE 16 - BUILDINGS AND CONSTRUCTION | | |
| CAC 2022 | CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE | CCR TITLE 24 PART 1 | |
| CBC 2022 | CALIFORNIA BUILDING CODE | CCR TITLE 24 PART 2, VOL 1&2 | BASED ON THE 2021 INTERNATIONAL BUILDING CODE W/ CA AMENDMENTS |
| CEC 2022 | CALIFORNIA ELECTRICAL CODE | CCR TITLE 24 PART 3 | BASED ON THE 2020 NATIONAL ELECTRICAL CODE W/ CA AMENDMENTS |
| CEC 2022 | CALIFORNIA ENERGY CODE | CCR TITLE 24 PART 6 | BASED ON THE 2021 CALIFORNIA ENERGY COMMISION BUILDING ENERGY EFFICIENCY STNDS |
| CFC 2022 | CALIFORNIA FIRE CODE | CCR TITLE 24 PART 9 | BASED ON THE 2021 INTERNATIONAL FIRE CODE W/ CA AMENDMENTS |
| CALGREEN 2022 | CALIFORNIA GREEN BUILDING STANDARDS CODE | CCR TITLE 24 PART 11 | |
| CRSC 2022 | CALIFORNIA REFERENCED STANDARDS CODE | CCR TITLE 24 PART 12 | |
| | CALIFORNIA STATE FIRE MARSHAL REGULATIONS: PUBLIC SAFETY | CCR TITLE 19 DIVISION 1 | |
| ADDITIONAL CODES AND STANDARDS | | | |
| ADA | AMERICANS WITH DISABILITIES ACT - PUBLIC ACCOMMODATIONS | | |
| NFPA 101 | 2022 LIFE SAFETY CODE W/ CA AMENDMENTS | | |
| NESC | NATIONAL ELECTRICAL SAFETY CODE | | |
| IESNA | ILLUMINATING ENGINEERS SOCIETY OF NORTH AMERICA | | |

## FIXTURE SCHEDULE

ALL FIXTURES IN SCHEDULE SHALL BE "OR EQUAL",UON.

| FIXTURE VIEW | TYPE | WATTS | LAMP | VOLTS | MTG | DESCRIPTION | MFR | CATALOG NUMBERS | NOTES |
|---|---|---|---|---|---|---|---|---|---|
|  | P1 | 125 | LED 15,000 LM 4000K | UNV | 22' POLE ON 3' PIER, 25' TOTAL MTG HGT | LED AREA LIGHT, SINGLE HEAD, FORWARD THROW OPTICS W/ HOUSE SIDE SHIELD | LITHONIA LIGHTING | DSXI LED P4 40K TFTM MVOLT H5 | |
|  | P2 | 250 | LED 30,000 LM 4000K | UNV | 22' POLE ON 3' PIER, 25' TOTAL MTG HGT | LED AREA LIGHT, DUAL HEAD, FORWARD THROW OPTICS W/ HOUSE SIDE SHIELD | LITHONIA LIGHTING | DSXI LED P4 40K T5M MVOLT MVOLT H5 | |
|  | TC | 6 | --- | 120/277 | WALL | 7-DAY ASTRONOMIC TIMECLOCK, 30 AMP, 4-CIRCUIT, 1HP-2HP, SUNSET ON / TIMER OFF, AUTOMATIC DAYLIGHT SAVINGS TIME | INTERMATIC | ET8415CR (R=NEMA 3R, EL5E NEMA 1) | 2 |

## CERTIFIED ELECTRICIAN NOTE

THE CALIFORNIA STATE LICENSE BOARD (CSLB) "ZERO TOLERANCE POLICY" IS IN EFFECT FOR NON-COMPLIANT ELECTRICIANS. IN CALIFORNIA, ELECTRICAL WORK SHALL ONLY BE DONE BY "STATE CERTIFIED ELECTRICIANS". PER LABOR CODE SECTIONS 3099 AND 3099.2, SECTIONS 209.0 AND THE AB 931. AS OF JANUARY 2006, ENFORCEMENT OF LEGAL ACTION WILL BE ISSUED TO ANY C-10 CONTRACTOR WHO WILLFULLY EMPLOYS AN "UNCERTIFIED ELECTRICIAN" TO PERFORM ELECTRICAL WORK IN THE STATE OF CALIFORNIA.

## ELECTRICAL ABBREVIATIONS

NOTE: SOME ABBREVIATIONS MAY NOT APPLY TO THIS PROJECT

| | | |
|---|---|---|
| 1PH | - | SINGLE PHASE |
| 3PH | - | THREE PHASE |
| 3W | - | THREE WIRE |
| 4W | - | FOUR WIRE |
| A | - | AMPERE |
| AC | - | ALTERNATING CURRENT |
| AF | - | CIRCUIT BREAKER AMP FRAME RATING |
| AFG | - | ABOVE FINISHED GROUND |
| AFF | - | ABOVE FINISHED FLOOR |
| AIC | - | AMPS INTURRUPTING CAPACITY |
| AWG | - | AMERICAN WIRE GAUGE |
| BKR | - | BREAKER |
| BLDG | - | BUILDING |
| C | - | CONDUIT (<600V) |
| CB | - | CIRCUIT BREAKER |
| CKT | - | CIRCUIT |
| CU | - | COPPER |
| DISC | - | DISCONNECT |
| (E) | - | EXISTING |
| EF | - | EXHAUST FAN |
| FBCON | - | FURNISHED BY CONTRACOR |
| FBO | - | FURNISHED BY OTHERS |
| FLA | - | FULL LOAD AMPS |
| FLEX | - | FLEXIBLE METAL CONDUIT |
| GALV | - | GALVANIZED |
| GEC | - | GROUNDING ELECTRODE CONDUCTOR |
| GFI | - | GROUND FAULT CIRCUIT INTERRUPTER |
| GND | - | GROUND |
| HID | - | HIGH INTENSITY DISCHARGE |
| HP | - | HORSEPOWER |
| IEC | - | INTERNATIONAL ELECTRICAL CODE |
| J-BOX | - | JUNCTION BOX |
| KCMIL | - | THOUSAND CIRCULAR MILS |
| KVA | - | KILOVOLT AMPERE |
| KWH | - | KILOWATT HOUR |
| LCP | - | LIGHTING CONTROL PANEL |
| LTG | - | LIGHTING |
| MCA | - | MIN CIRCUIT AMPS |
| MFR | - | MANUFACTURER |
| MFR DOC | - | MANUFACTURERS DOCUMENTATION |
| MLO | - | MAIN LUGS ONLY |
| MOCP | - | MAX OVERCURRENT PROTECTION |
| MTR | - | MOTOR |
| (N) | - | NEW |
| NEC | - | NATIONAL ELECTRICAL CODE |
| NECA | - | NATIONAL ELEC CONTRACTORS ASSOCIATION |
| NEMA | - | NATIONAL ELEC MFRS ASSOC. |
| NTS | - | NOT TO SCALE |
| PB | - | PULL BOX |
| PVC | - | POLYVINYL CHLORIDE CONDUIT |
| REC | - | RECEPTACLE |
| RM | - | ROOM |
| SPEC | - | SPECIFICATION |
| SWBD | - | SWITCHBOARD |
| TELE | - | TELEPHONE |
| TELECOMM | - | TELECOMMUNICATIONS |
| THRU | - | THROUGH |
| TFMR | - | TRANSFORMER |
| TYP | - | TYPICAL WHERE OCCURS |
| UG | - | UNDERGROUND |
| UNV | - | UNIVERSAL (COMPATIBLE WITH MULTIPLE VOLTAGES) |
| UON | - | UNLESS OTHERWISE NOTED |
| V | - | VOLT |
| VFD | - | VARIABLE FREQUENCY DRIVE |
| VIF | - | CONTRACTOR TO VERIFY IN FIELD |
| W | - | WATT |
| WP | - | WEATHERPROOF (NEMA 3R) |

## ELECTRICAL SYMBOL SCHEDULE

NOTE: SOME SYMBOLS SHOWN MAY NOT APPLY TO THIS PROJECT

| SYMBOL | DESCRIPTION | NOTES |
|---|---|---|
| (3,A,1,50) | DENOTES LIGHTING FIXT CKT, FIXT TYPE AND FIXT WATTAGE | |
| 1 | ELECTRICAL KEYNOTE #1, REFER TO NOTES ON SAME SHEET | |
| A-1,3,5 | HOME RUN 3/4"C - ARROW DENOTES # OF CKTS, (PANEL A, CKTS #1,3,5) | |
| | CONDUIT RUN, IN WALL OR ATTIC, 1/2"C-2#12+1#12 GND (CU THWN) | |
| | CONDUIT RUN IN FLOOR OR U.G., 1/2"C-2#12+1#12 GND (CU THWN) | |
| | ANY CONDUIT RUN - 3/4"C - 3#12 + 1#12 GND (CU THWN)) | |
| | " " " - 3/4"C - 4#12 + 1#12 GND (CU THWN) | |
| | EXISTING CONDUIT | |
| | GROUND WIRE | |
| | CONDUIT STUB - CAPPED AND LABELED | |
| Q | CONDUIT, FLEXIBLE METALLIC CONDUIT, SIZE AS SHOWN | |
| J | JUNCTION BOX, 4" x 4" W/ FLUSH PLATE MINIMUM, UON | |
| A J | JUNCTION BOX W/ FLEXIBLE CONDUIT CONNECTION TO EQUIPMENT | |
| | POLE LTG FIXT | |
| TC | TIME CLOCK / SWITCH | |
| | POWER POLE | |
| | ELECTRICAL PANEL | |
| =WP/GFI | EXTERIOR DUPLEX REC, GFI, WP, IN WALL W/ WP COVER | |

## ELECTRICAL DRAWING INDEX

| SHEET NUMBER | SHEET TITLE |
|---|---|
| E1 | ELECTRICAL CODES, SYMBOLS, SCHEDULES & DETAIL |
| E2 | PARKING LOT ELECTRICAL PLAN |
| E3.1 | SINGLE LINE DIAGRAM & PANEL SCHEDULES |
| E3.2 | ELECTRICAL DETAILS |
| E4.1 | TITLE 24 POWER DISTRIBUTION COMPLIANCE DOCUMENTATION |
| E4.2 | TITLE 24 OUTDOOR LIGHTING COMPLIANCE DOCUMENTATION |
| E5 | ELECTRICAL SPECIFICATIONS |

## GENERAL NOTES

1. PRIOR TO BEGINNING THE PROJECT, THE ELECTRICAL CONTRACTOR SHALL WALK THE JOB SITE AND COMPARE EXISTING CONDITIONS WITH THE EXISTING CONDITIONS AS SHOWN ON THESE DRAWINGS. ANY OBVIOUS OR LIKELY DISCREPANCY BETWEEN THE SITE CONDITIONS AND THESE ELECTRICAL DRAWINGS SHALL BE IMMEDIATELY REPORTED TO THIS ENGINEER. THE ELECTRICAL CONTRACTOR SHALL THEN WAIT FOR DIRECTION FROM THIS ENGINEER BEFORE PROCEEDING WITH ITEMS THAT CONCERN THE DISPUTED MATTER. NO EQUIPMENT SHALL BE ORDERED THAT CONCERNS THE DISPUTED MATTER UNTIL THE MATTER IS SETTLED.
2. THE ELECTRICAL CONTRACTOR SHALL NOT ORDER ANY ELECTRICAL EQUIPMENT WITHOUT FIRST SUBMITTING THE PRODUCT DATA SHEETS TO THIS ENGINEER FOR APPROVAL.
3. SHARED NEUTRALS ARE NOT PERMITTED. NEUTRAL CONDUCTORS SHALL NOT BE USED FOR MORE THAN ONE BRANCH CIRCUIT.
4. WORKMANSHIP SHALL BE OF THE HIGHEST ORDER, PER NEC ARTICLE 110-12. ELECTRICAL INSTALLATION SHALL BE IN ACCORDANCE WITH NECA STANDARDS OF INSTALLATION.
5. ELECTRICAL PLANS ARE DIAGRAMMATIC ONLY. ROUTING OF RACEWAYS SHALL BE AT THE OPTION OF THE ELECTRICAL CONTRACTOR, UON, AND SHALL BE COORDINATED WITH OTHER TRADES. DO NOT SCALE THE ELECTRICAL PLANS FOR LOCATIONS OF ANY ELECTRICAL, ARCHITECTURAL, STRUCTURAL, CIVIL, OR MECHANICAL EQUIPMENT, ITEMS OR FEATURES.
6. ALL EXISTING ELECTRICAL INFORMATION, POWER AND SIGNALS, SHOWN HEREIN HAS BEEN COMPILED FROM PREVIOUS 'AS-CONSTRUCTED' CONSTRUCTION DOCUMENTS AND INFORMATION PROVIDED BY THE OWNER'S FACILITIES PERSONNEL. IT HAS NOT NECESSARILY BEEN PHYSICALLY FIELD VERIFIED BY THIS ENGINEER. USE AND APPLICATION OF THIS INFORMATION SHALL BE CONFINED TO THE PROJECT FOR WHICH IT IS INTENDED.
7. ALL EQUIPMENT SHALL HAVE AN INDEPENDENT TESTING LABORATORY LABEL (U.L., C.S.A., ETC.) AS REQUIRED BY NEC ARTICLE 110-2 AND 110-3.
8. WORKING CLEARANCES ABOUT ELECTRICAL EQUIPMENT SHALL COMPLY WITH THE REQUIREMENTS OF NEC ARTICLE 110 AND ARTICLE 406.16.
9. ALL EQUIPMENT/MATERIALS REMOVED SHALL BE PROPERTY OF THE OWNER.
10. LIGHTING FIXTURE MOUNTING SUPPORT AND LOCATIONS SHALL BE PER NEC ARTICLE 410 REQUIREMENTS.
11. WHERE EXISTING CONDUIT IS BEING REUSED ON THE SITE, NEW CONDUCTORS SHALL BE PULLED CONTINUOUS AND UNSPLICED THROUGH THE EXISTING RACEWAY, RE-PULLING EXISTING CONDUCTORS AS REQUIRED AND PROVIDING A PULL ROPE IN THE EXISTING CONDUIT.
12. PROVIDE 3/8" NYLON PULL ROPE IN ALL NEW CONDUIT AND RACEWAY TO ALLOW FUTURE ADDITION OF CONDUCTORS AS REQUIRED, WHETHER OR NOT CONDUCTORS ARE INSTALLED AT THIS TIME.
13. ALL FIXTURES, OUTLETS AND EQUIPMENT MOUNTED IN/ON THE BUILDING EXTERIOR SHALL BE UL APPROVED FOR WET LOCATION INSTALLATION. PARTIALLY PROTECTED FIXTURES, DEVICES AND EQUIPMENT SO MOUNTED SHALL BE UL APPROVED FOR DAMP LOCATION INSTALLATION. RECEPTACLES IN DAMP OR WET LOCATIONS SHALL MEET THE REQUIREMENTS OF NEC ARTICLE 406.8.


Client:

DRP ENTERPRISES, LLC
P.O. BOX 4428
PALM SPRINGS, CA
92263

Consultant:

REGISTERED PROFESSIONAL ENGINEER
MARC J. BURKHARD
NO. E18782
EXP. 06-30-2025
ELECTRICAL
STATE OF CALIFORNIA

DATE SIGNED:
03/27/2025

MJB Engineering
Electrical Engineering Consulting
Marc Burkhard, PE
6316 Avenue 400
Dinuba, California 93618
Office: (559) 261-1675
Fax: (559) 591-0266
Email: mjb@mjb-engineering.com
Web: www.mjb-engineering.com


## REVISIONS

| Rev: | Date: | Description: |
|---|---|---|
| 1 | 11/8/2024 | PLAN REVIEW |
| | | |
| | | |

Project Title:
NEW PARKING FACILITY
CORNER OF 10TH ST. & HOWARD AVE.

3087 12TH STREET,
RIVERSIDE, CA 92522

Date Issued:
3-27-2025

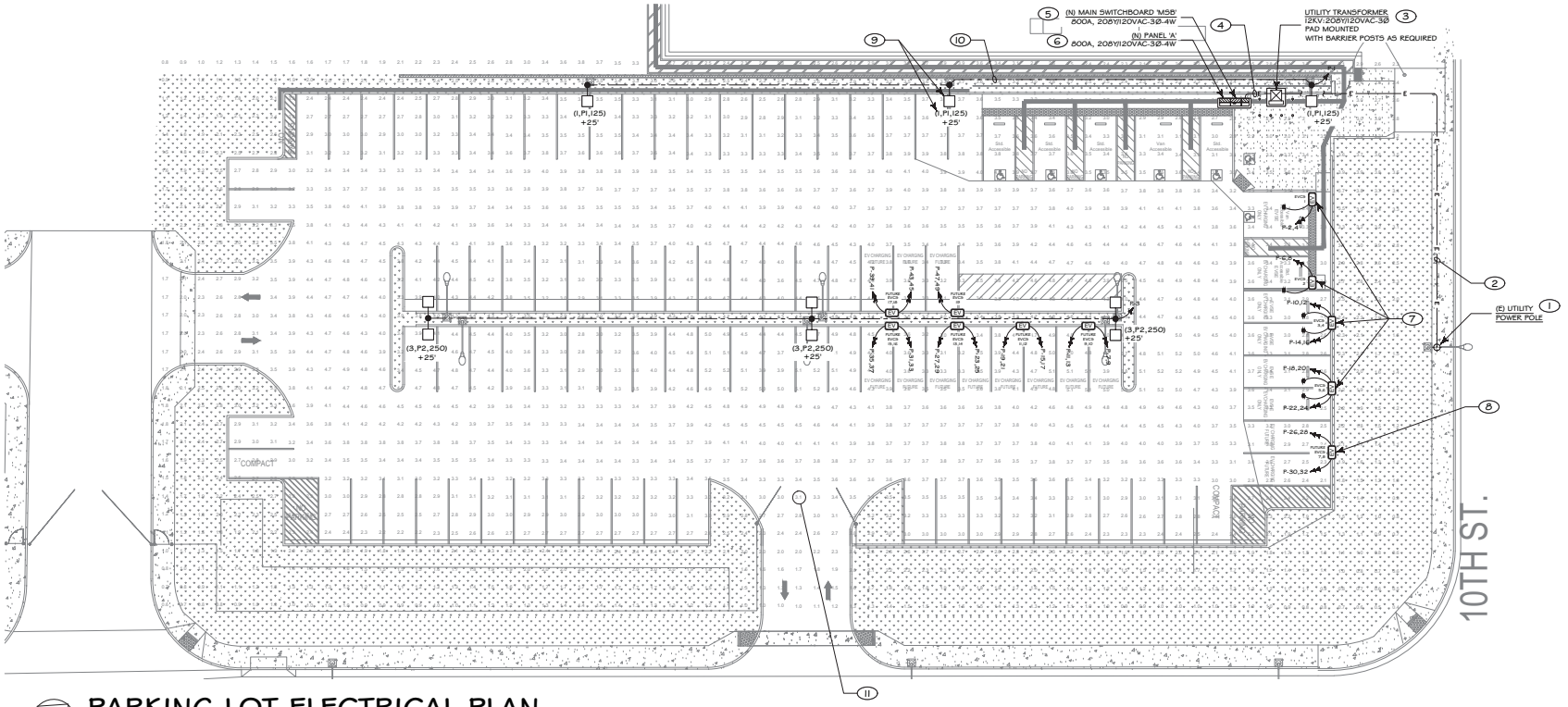
Project Phase:
PERMIT

CAD By: MJB
Project Number: DRP-04

Drawing Title:
ELECTRICAL CODES, SYMBOLS, SCHEDULES & DETAIL

Drawing Number:
E1

Drawing 1 of 7

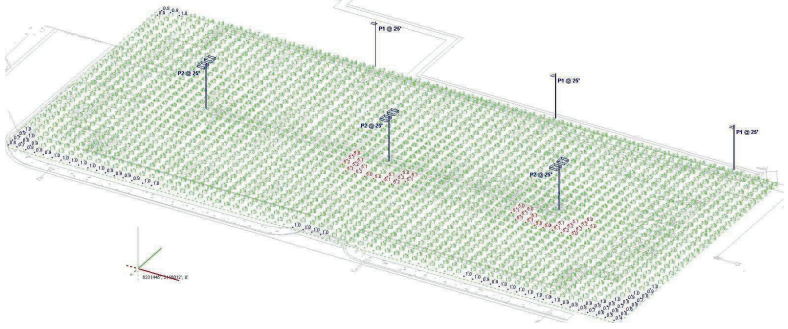



# PARKING LOT ELECTRICAL PLAN

15' 0 15' 30' 1" = 15'

## PARKING LOT ELECTRICAL PLAN NOTES:

1. (E) UTILITY COMPANY SERVICE POLE TO REMAIN. PROVIDE (N) SERVICE RISER OR DROP PER UTILITY COMPANY REQUIREMENTS. COORDINATE ANY RISER CONDUIT QUANTITIES, POLE QUADRANT, ALL UNDERGROUND SERVICE CONDUIT QUANTITIES AND ALL ROUTING REQUIREMENTS WITH UTILITY COMPANY PLANNING REPRESENTATIVE PRIOR TO BID.
2. TWO 4"C. UG (PRIMARY) PER UTILITY COMPANY REQUIREMENTS.
3. UTILITY COMPANY TRANSFORMER. PROVIDE MTG STRUCTURE, BARRIERS AND GROUNDING, PER UTILITY COMPANY REQUIREMENTS, UNLESS PROVIDED BY UTILITY. COORDINATE ALL WITH UTILITY COMPANY PLANNING REPRESENTATIVE PRIOR TO COMMENCEMENT OF THIS WORK. REFER TO SINGLE LINE DIAGRAM, SHEET E3.1 FOR COORDINATION.
4. FOUR 3"C (SECONDARY) PER UTILITY COMPANY REQUIREMENTS. REFER TO SINGLE LINE DIAGRAM, SHEET E3.1 FOR COORDINATION.
5. PROVIDE MAIN SWITCHBOARD, INSTALL PER DETAIL #1/E3.2 AND CONNECT PER SINGLE LINE DIAGRAM, SHEET E3.1. PROVIDE ASTRONOMICAL TIMECLOCK AND 120V GFCI RECEPTACLE FOR IRRIGATION CONTROLLER WITHIN MAIN SWITCHBOARD.
6. PROVIDE (N) PANELBOARD, PANEL 'A', MTD IN INTERIOR OF MAIN SWITCHBOARD. INSTALL AND CONNECT PER MFR DOCS AND PER SINGLE LINE DIAGRAM, SHEET E3.1.
7. CURRENT ELECTRIC VEHICLE CHARGING STATION (EVCS) 40A, 208V-1PH: PROVIDE 1-1/4"C - 2#6 + 1#10 GND, CU-THWN STUBBED INTO PULLBOX, PER CALGREEN 5.106.5.3.3. INSTALL ELECTRIC VEHICLE CHARGING STATION PER CBC 11B-812. COORDINATE EXACT LOCATION PRIOR TO ROUGH-IN. TYP OF 6.
8. FUTURE ELECTRIC VEHICLE CHARGING STATION (EVCS) 40A, 208V-1PH: PROVIDE 1-1/4"C SPARE STUBBED INTO PULLBOX AND LABELED "EV CAPABLE" FOR FUTURE WIRING (2#6 + 1#10 GND, CU-THWN), PER CALGREEN 5.106.5.3.3. INSTALL FUTURE ELECTRIC VEHICLE CHARGING STATION PER CBC 11B-812. COORDINATE EXACT LOCATION PRIOR TO ROUGH-IN. TYP OF 13.
9. PROVIDE (N) POLE LIGHT FIXTURE, PER FIXTURE SCHEDULE, SHEET E1. INSTALL PER DETAIL #3/E3.2 TYP.
10. 1"C - 2#10 + 1#10 CU GND BETWEEN POLE LIGHT FIXTURES, TYP, UON.
11. THE VALUES SHOWN REPRESENT THE EXTERIOR PHOTOMETRIC CALCULATIONS AT THE PARKING LOT, SHOWN IN FOOT-CANDLES (FC). THE IES RECOMMENDED LIGHT LEVEL FOR THE PARKING LOT IS 1.0 FC. THIS DESIGN PROVIDES AN AVERAGE OF 3.1 FC.



# PHOTOMETRIC CALCULATION - ISO VIEW

(THIS ILLUSTRATION MAY NOT BE HELPFUL WHEN PLOTTED IN GRAYSCALE, WITHOUT COLOR)

FOR EXTERIOR LTG:
BLUE = LESS THAN 1.0 FC, LOW LIGHT LEVELS
GREEN = BETWEEN 1.0 FC AND 5.0 FC, APPROPRIATE LIGHT LEVELS
RED = GREATER THAN 5.0 FC, HIGH LIGHT LEVELS


Client:
DRP Enterprises
DRP ENTERPRISES, LLC
P.O. BOX 4428
PALM SPRINGS, CA 92263

Consultant:
REGISTERED PROFESSIONAL ENGINEER MARC J. BURKHARD NO. E18782 EXP. 06-30-2025 ELECTRICAL
DATE SIGNED: 03/27/2025
MJB Engineering
Electrical Engineering Consulting
Marc Burkhard, PE
6316 Avenue 400
Dinuba, California 93618
Office: (559) 261-1675
Fax: (559) 591-0266
Email: mjb@mjb-engineering.com
Web: www.mjb-engineering.com


REVISIONS

| Rev: | Date: | Description: |
|---|---|---|
| 1 | 11/8/2024 | PLAN REVIEW |
| | | |
| | | |

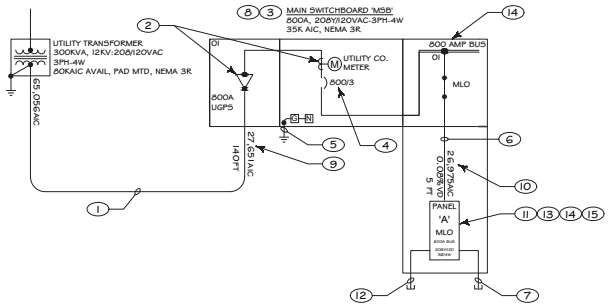
Project Title:
NEW PARKING FACILITY
CORNER OF 10TH ST. & HOWARD AVE.
3087 12TH STREET, RIVERSIDE, CA 92522

Date Issued:
3-27-2025

Project Phase:
PERMIT

CAD By: MJB
Project Number: DRP-04
Drawing Title:
PARKING LOT ELECTRICAL PLAN
Drawing Number:
E2
Drawing 2 of 7


PRINTED: 3/27/2025 2:57 PM BY: MJB-ENG-MAIN LAST SAVED: 3/27/2025 2:42 PM BY: MJB-ENG-MAIN
t:_mjb engineering\01 projects\dpp enterprises, llc\dpp-04 prism parking lot riverside\03 drawings\dpp-04 prism parking lot electrical plan.dwg




# SINGLE LINE DIAGRAM

## SINGLE LINE DIAGRAM NOTES:

1. FOUR 3"C. FOR UTILITY COMPANY SECONDARY SERVICE LATERAL. CONTRACTOR SHALL VERIFY EXACT LOCATION, EXTENSION AND CONNECTION REQUIREMENTS WITH UTILITY COMPANY PLANNING REPRESENTATIVE PRIOR TO BID AND AGAIN PRIOR TO COMMENCEMENT OF THIS PORTION OF THE WORK.
2. PROVIDE LANDING LUGS AND METERING FACILITIES PER UTILITY COMPANY REQUIREMENTS. CONTRACTOR SHALL VERIFY PRIOR TO BID.
3. PROVIDE (N) MAIN SWITCHBOARD PER SPECIFICATIONS, INSTALL PER DETAIL #1/E3.2 AND CONNECT AS SHOWN. MAIN SWITCHBOARD AND ALL ASSOCIATED DISTRIBUTION EQUIPMENT SHALL BE RATED 35,000 A.I.C., MIN. CONTRACTOR SHALL VERIFY FAULT CURRENT AVAILABLE FROM UTILITY AND PROVIDE APPROPRIATE RATED EQUIPMENT THAT MEETS OR EXCEEDS UTILITY FAULT DUTY.
4. PROVIDE MAIN SERVICE DISCONNECT PER UTILITY COMPANY REQUIREMENTS. CONTRACTOR SHALL VERIFY PRIOR TO BID.
5. PROVIDE GROUNDING ELECTRODE CONDUCTOR ONE #2/0 CU, PER DETAIL #5/E3.2.
6. PROVIDE 4#600 + 1#1/0 GND (CU THWN) IN PARALLEL.
7. PROVIDE 2"C SPARE, 5 FEET BEYOND EQUIPMENT PAD (OR INTO NEAREST LANDSCAPED AREA). PROVIDE 3/8" NYLON PULL ROPE. STUB, CAP AND LABEL "FOR FUTURE USE"
8. PROVIDE ARC FLASH WARNING LABELING PER DETAIL #2/E3.2. PROVIDE AT MAIN SWITCHBOARD AND PANELS.
9. PROVIDE LABELING FOR MAXIMUM AVAILABLE FAULT CURRENT (MAFC) AT SERVICE EQUIPMENT, PER CEC 110.24(A). CALCULATED MAFC IS SHOWN HERE. VERIFY WITH UTILITY COMPANY.
10. THE CALCULATED MINIMUM FAULT CURRENT RATING OF THE PANEL AND THE VOLTAGE DROP ON THE PROPOSED FEEDER ARE SHOWN HERE.
11. RESERVED CIRCUIT BREAKER SPACE FOR FUTURE ELECTRICAL VEHICLE CHARGING STATION CONNECTION, AND SHALL BE PERMANENTLY MARKED "EV CAPABLE". FUTURE CIRCUIT BREAKER SHALL BE PER 2019 CAL GREEN 4.106.4 FOR RESIDENTIAL OR 5.106.5.3 FOR NON-RESIDENTIAL.
12. PROVIDE 1-1/4"C SPARE + PULLROPE, RUN FROM WITHIN MAIN SWITCHBOARD UNDERGROUND TO PARKING STALL DESIGNATED FOR FUTURE CHARGING STATION, STUB, CAP AND LABEL "FOR FUTURE EVCS". TYP FOR EACH EVCS.
13. THE ELECTRICAL SYSTEM HAS SUFFICIENT CAPACITY TO SIMULTANEOUSLY CHARGE ALL ELECTRIC VEHICLES AT THEIR FULL RATED AMPERAGE.
14. A LABEL STATING 'EV CAPABLE' SHALL BE POSTED IN A CONSPICUOUS PLACE AT THE SERVICE PANEL OR SUB PANEL AND NEXT TO THE RACEWAY TERMINATION POINT, PER 2019 CAL GREEN 4.106.4 FOR RESIDENTIAL OR 5.106.5.3 FOR NON-RESIDENTIAL.
15. ONCE THE "FUTURE" EVCS SYSTEM IS TO BE INSTALLED, A SEPARATE ELECTRICAL PLAN CHECK IS REQUIRED TO VERIFY THE RACEWAY METHOD(S), WIRING SCHEMATICS AND ELECTRICAL CALCULATIONS FOR THE ELECTRICAL CHARGING SYSTEM.

## PANEL 'A'

120/208V VOLTS | 3-PH | 4-WIRE
600 AMP BUS | MLO | AMP MAIN BKR
60 CKT | BOLT-ON
35,000 AIC RATING | NEMA 1
5.75" MAX. ENCL. DEPTH
INTERNAL MTG | NEU 100%

| CKT | BKR | COND | WIRE | GND | LOAD V.A. A | LOAD V.A. B | LOAD V.A. C | DESCRIPTION | DESCRIPTION | LOAD V.A. C | LOAD V.A. B | LOAD V.A. A | GND | WIRE | COND | BKR | CKT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20/1 | 3/4" | #12 | #12 | 375 | | | LTG - POLE LTG | EVCS 1 40 FLA | | | 4,160 | #10 | #4 | 1-1/2" | 40/2 | 2 |
| 3 | 20/1 | 3/4" | #12 | #12 | | 750 | | LTG - POLE LTG | | | 4,160 | | | | | | 4 |
| 5 | 20/1 | 3/4" | #12 | #12 | | | 360 | REC - IRR. CONTROLLER | EVCS 2 40 FLA | 4,160 | | | #10 | #4 | 1-1/2" | 40/2 | 6 |
| 7 | 40/2 | 1-1/2" | #4 | #10 | 4,160 | | | EVCS 9 (FUTURE) 40 FLA | | | | 4,160 | | | | | 8 |
| 9 | | | | | | 4,160 | | | EVCS 3 40 FLA | | 4,160 | | #10 | #4 | 1-1/2" | 40/2 | 10 |
| 11 | 40/2 | 1-1/2" | #4 | #10 | | | 4,160 | EVCS 10 (FUTURE) 40 FLA | | 4,160 | | | | | | | 12 |
| 13 | | | | | 4,160 | | | | EVCS 4 40 FLA | | | 4,160 | #10 | #4 | 1-1/2" | 40/2 | 14 |
| 15 | 40/2 | 1-1/2" | #4 | #10 | | 4,160 | | EVCS 11 (FUTURE) 40 FLA | | | 4,160 | | | | | | 16 |
| 17 | | | | | | | 4,160 | | EVCS 5 40 FLA | 4,160 | | | #10 | #4 | 1-1/2" | 40/2 | 18 |
| 19 | 40/2 | 1-1/2" | #4 | #10 | 4,160 | | | EVCS 12 (FUTURE) 40 FLA | | | | 4,160 | | | | | 20 |
| 21 | | | | | | 4,160 | | | EVCS 6 40 FLA | | 4,160 | | #10 | #4 | 1-1/2" | 40/2 | 22 |
| 23 | 40/2 | 1-1/2" | #4 | #10 | | | 4,160 | EVCS 13 (FUTURE) 40 FLA | | 4,160 | | | | | | | 24 |
| 25 | | | | | 4,160 | | | | EVCS 7 (FUTURE) 40 FLA | | | 4,160 | #10 | #4 | 1-1/2" | 40/2 | 26 |
| 27 | 40/2 | 1-1/2" | #4 | #10 | | 4,160 | | EVCS 14 (FUTURE) 40 FLA | | | 4,160 | | | | | | 28 |
| 29 | | | | | | | 4,160 | | EVCS 8 (FUTURE) 40 FLA | 4,160 | | | #10 | #4 | 1-1/2" | 40/2 | 30 |
| 31 | 40/2 | 1-1/2" | #4 | #10 | 4,160 | | | EVCS 15 (FUTURE) 40 FLA | | | | 4,160 | | | | | 32 |
| 33 | | | | | | 4,160 | | | ******* SPACE ******* | | | | | | | | 34 |
| 35 | 40/2 | 1-1/2" | #4 | #10 | | | 4,160 | EVCS 16 (FUTURE) 40 FLA | ******* SPACE ******* | | | | | | | | 36 |
| 37 | | | | | 4,160 | | | | ******* SPACE ******* | | | | | | | | 38 |
| 39 | 40/2 | 1-1/2" | #4 | #10 | | 4,160 | | EVCS 17 (FUTURE) 40 FLA | ******* SPACE ******* | | | | | | | | 40 |
| 41 | | | | | | | 4,160 | | ******* SPACE ******* | | | | | | | | 42 |
| 43 | 40/2 | 1-1/2" | #4 | #10 | 4,160 | | | EVCS 18 (FUTURE) 40 FLA | ******* SPACE ******* | | | | | | | | 44 |
| 45 | | | | | | 4,160 | | | ******* SPACE ******* | | | | | | | | 46 |
| 47 | 40/2 | 1-1/2" | #4 | #10 | | | 4,160 | EVCS 19 (FUTURE) 40 FLA | ******* SPACE ******* | | | | | | | | 48 |
| 49 | | | | | 4,160 | | | | ******* SPACE ******* | | | | | | | | 50 |
| 51 | 20/1 | --- | --- | --- | | | | SPARE | ******* SPACE ******* | | | | | | | | 52 |
| 53 | 20/1 | --- | --- | --- | | | | SPARE | ******* SPACE ******* | | | | | | | | 54 |
| 55 | 20/1 | --- | --- | --- | | | | SPARE | ******* SPACE ******* | | | | | | | | 56 |
| 57 | 20/1 | --- | --- | --- | | | | SPARE | ******* SPACE ******* | | | | | | | | 58 |
| 59 | 20/1 | --- | --- | --- | | | | SPARE | ******* SPACE ******* | | | | | | | | 60 |

| | A | B | C |
|---|---|---|---|
| TOTAL LOADS (VA) : | 58,615 | 50,670 | 50,280 |
| 25% LCL/LML (VA) : | 1,134 | 1,228 | 1,040 |
| TOTAL LOAD (VA) : | 59,749 | 51,898 | 51,320 |
| TOTAL LOAD (AMPS) : | 498 | 432 | 428 |
| TOTAL LOAD FOR PANEL (VA) : | | 162,966 | |
| TOTAL LOAD FOR PANEL (AMPS) : | | 452 | |


Client:
DRP ENTERPRISES, LLC
P.O. BOX 4428
PALM SPRINGS, CA 92263

Consultant:
REGISTERED PROFESSIONAL ENGINEER MARC J. BURKHARD NO. E18782 EXP. 06-30-2025 ELECTRICAL
DATE SIGNED: 03/27/2025
MJB Engineering
Electrical Engineering Consulting
Marc Burkhard, PE
6316 Avenue 400
Dinuba, California 93618
Office: (559) 261-1675
Fax: (559) 591-0266
Email: mjb@mjb-engineering.com
Web: www.mjb-engineering.com


REVISIONS

| Rev: | Date: | Description: |
|---|---|---|
| 1 | 11/8/2024 | PLAN REVIEW |
| | | |
| | | |

Project Title:
NEW PARKING FACILITY
CORNER OF 10TH ST. & HOWARD AVE.

3087 12TH STREET,
RIVERSIDE, CA 92522

Date Issued:
3-27-2025

Project Phase:
PERMIT

CAD By: MJB | Project Number: DRP-04

Drawing Title:
SINGLE LINE DIAGRAM & PANEL SCHEDULE

Drawing Number:
E3.1

Drawing 3 of 7