#### GENERAL CONSTRUCTION NOTES

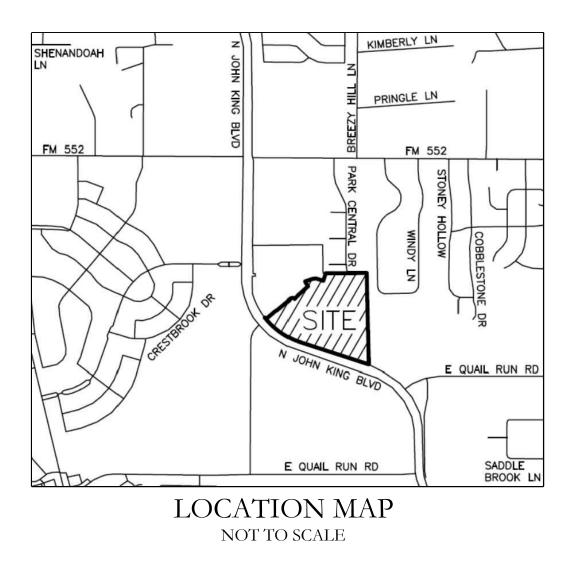
- 1. ALL CONSTRUCTION, TESTING, AND MATERIALS SHALL BE IN ACCORDANCE WITH THE CITY'S CURRENT STANDARDS, DETAILS, AND SPECIFICATIONS.
- PRIOR TO ANY CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL BE FAMILIAR WITH THE PLANS INCLUDING ALL NOTES, STANDARD SPECIFICATIONS, DETAILS, AND CITY STANDARDS.

3. TESTING AND INSPECTION OF MATERIALS SHALL BE PERFORMED BY A COMMERCIAL TESTING LABORATORY APPROVED BY THE CLIENT AND CITY. CONTRACTOR SHALL FURNISH MATERIALS OR SPECIMENS FOR TESTING, AND SHALL FURNISH SUITABLE EVIDENCE THAT THE MATERIALS PROPOSED TO BE INCORPORATED INTO THE WORK ARE IN ACCORDANCE WITH THE SPECIFICATIONS.

- CONTRACTOR SHALL NOTIFY THE CITY AT LEAST 48 HOURS PRIOR TO BEGINNING ANY CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS PRIOR TO BEGINNING ANY CONSTRUCTION. CONTRACTOR MUST KEEP AVAILABLE ON-SITE AT ALL TIMES APPROVED
- CONSTRUCTION PLANS AND COPIES OF ANY REQUIRED PERMITS ALONG WITH THE CURRENT VERSIONS OF THE FOLLOWING REFERENCES: CITY OF ROCKWALL ENGINEERING STANDARDS, NCTCOG SPECIFICATIONS, TXDOT SPECIFICATIONS, TXDOT STANDARD DRAWINGS.
- ALL SHOP DRAWINGS, WORKING DRAWINGS OR OTHER DOCUMENTS WHICH REQUIRE REVIEW BY THE CITY SHALL BE SUBMITTED BY THE CONTRACTOR SUFFICIENTLY IN ADVANCE OF SCHEDULED CONSTRUCTION TO ALLOW NO LESS THAN 14 CALENDAR DAYS FOR REVIEW AND RESPONSE BY THE CITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REQUIRED CONSTRUCTION
- SURVEYING AND STAKING AND SHALL NOTIFY THE CLIENT AND CITY OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH ANY WORK 9. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL SURVEY MARKERS
- INCLUDING IRON RODS, PROPERTY CORNERS, OR SURVEY MONUMENTS WITHIN THE LIMITS OF CONSTRUCTION AND OUTSIDE ROW DURING CONSTRUCTION. ANY SURVEY MARKERS DISTURBED DURING CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR AT NO COST TO THE CLIENT. 10. CONTRACTOR IS RESPONSIBLE FOR KEEPING STREETS AND DRIVEWAYS ADJACENT
- TO THE PROJECT FREE OF MUD AND DEBRIS AT ALL TIMES. CONTRACTOR SHALL CLEAN UP AND REMOVE ALL LOOSE MATERIAL RESULTING FROM CONSTRUCTION OPERATIONS. THE CONTRACTOR SHALL TAKE ALL AVAILABLE PRECAUTIONS TO CONTROL DUST.
- 11. THE EXISTENCE AND LOCATIONS OF THE PUBLIC AND FRANCHISE UTILITIES SHOWN ON THE DRAWINGS WERE OBTAINED FROM AVAILABLE RECORDS AND ARE APPROXIMATE. THE CONTRACTOR SHALL DETERMINE THE DEPTH AND LOCATION OF EXISTING UNDERGROUND UTILITIES PRIOR TO EXCAVATING, TRENCHING, OR DRILLING AND SHALL BE REQUIRED TO TAKE ANY PRECAUTIONARY MEASURES TO PROTECT ALL LINES SHOWN AND / OR ANY OTHER UNDERGROUND UTILITIES NOT OF RECORD OR NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL PUBLIC AGENCIES AND FRANCHISE UTILITIES 48 HOURS PRIOR TO CONSTRUCTION. (DIG-TESS 1-800-344-8377) THE CONTRACTOR MAY BE REQUIRED EXPOSE THESE FACILITIES AT NO COST TO THE CITY. THE CONTRACTOR WILL BE RESPONSIBLE FOR DAMAGES TO UTILITIES IF THE DAMAGE IS CAUSED BY NEGLIGENCE OR FAILURE TO HAVE LOCATES PERFORMED.
- 12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING FACILITIES OR ADJACENT PROPERTIES DURING CONSTRUCTION. ANY REMOVAL OR DAMAGE TO EXISTING FACILITIES SHALL BE REPLACED OR REPAIRED TO EOUAL OR BETTER CONDITION BY THE CONTRACTOR.
- 13. CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING AND INSTALLING ALL TEMPORARY AND PERMANENT TRAFFIC CONTROL IN ACCORDANCE WITH THE MINIMUM REOUIREMENTS OF THE LATEST REVISION OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (TMUTCD) AND TXDOT BARRICADE AND CONSTRUCTION STANDARDS.
- 4. CONTRACTOR SHALL NOT IMPEDE TRAFFIC ON EXISTING STREETS, DRIVEWAYS, ALLEYS, OR FIRE LANES OPEN TO THE PUBLIC. IN THE EVENT THE CONSTRUCTION WORK REQUIRES THE CLOSURE OF AN EXISTING STREET, ALLEY, OR FIRE LANE, THE CONTRACTOR SHALL REQUEST THE ROAD CLOSURE THROUGH THE CITY TRAFFIC DIVISION.
- 15. CONTRACTOR SHALL NOT STORE MATERIALS, EQUIPMENT OR OTHER CONSTRUCTION ITEMS ON ADJACENT PROPERTIES OR RIGHT-OF-WAY WITHOUT THE PRIOR WRITTEN CONSENT OF THE PROPERTY OWNER AND THE CITY.
- 16. TEMPORARY FENCING SHALL BE INSTALLED PRIOR TO THE REMOVAL OF EXISTING FENCING. TEMPORARY FENCING SHALL BE REMOVED AFTER PROPOSED FENCING IS APPROVED BY THE CITY. ALL TEMPORARY AND PROPOSED FENCING LOCATIONS SHALL BE SUBJECT TO FIELD REVISIONS AS DIRECTED BY THE CITY. 17. UNUSABLE EXCAVATED MATERIAL, OR CONSTRUCTION DEBRIS SHALL BE
- REMOVED AND DISPOSED OF OFFSITE AT AN APPROVED DISPOSAL FACILITY BY THE CONTRACTOR AT HIS EXPENSE.
- 18. CONTRACTOR SHALL AVOID DAMAGE TO EXISTING TREES. WHEN NECESSARY, TREES AND SHRUB TRIMMING FOR CONSTRUCTION SHALL BE PERFORMED BY CERTIFIED TREE WORKER OR UNDER THE DIRECTION OF A REGISTERED LANDSCAPE ARCHITECT OR CERTIFIED ARBORIST.
- 19. EROSION CONTROL DEVICES SHALL BE INSTALLED ON ALL PROJECTS PRIOR TO BEGINNING CONSTRUCTION AND SHALL BE MAINTAINED THROUGHOUT THE PROJECT IN A CONDITION ACCEPTABLE TO THE CITY.
- 20. CONTRACTOR SHALL LOCATE AND PROTECT ALL EXISTING LANDSCAPE IRRIGATION SYSTEMS. DAMAGE TO EXISTING IRRIGATION SYSTEMS AND LANDSCAPE MATERIALS SHALL BE RESTORED TO EQUAL OR BETTER CONDITION AT NO COST TO CITY OR CLIENT.
- 21. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN A NEAT AND ACCURATE RECORD OF CONSTRUCTION FOR THE CLIENT'S AND CITY'S RECORDS.

# **CONSTRUCTION PLANS** FOR SCREENING AND BUFFERING





#### **OWNER / DEVELOPER:**

SADDLE STAR SOUTH HOLDINGS, LLC 2200 ROSS AVENUE **SUITE 4200W** DALLAS, TEXAS 75201 PH. (972) 716-2900 **CONTACT: JOSE CAMPOS** 

## ~SADDLE STAR ESTATES SOUTH - PH1~ CITY OF ROCKWALL ROCKWALL COUNTY, TEXAS

SUBMITTAL DATE: August 29, 2019

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| L1        | OVERALL LAYOUT PLAN |
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| L11-L15   | LANDSCAPE DETAILS   |
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| IR10-IR11 | IRRIGATION DETAILS  |

**CIVIL ENGINEER:** 

**ENGINEERING CONCEPTS & DESIGN, LP 201 WINDCO CIRCLE SUITE 200** WYLIE, TEXAS 75098 PH. (972) 941-8400 **CONTACT: RYAN KING** 

**LANDSCAPE ARCHITECT:** 

CODY JOHNSON STUDIO, LLC 9720 COIT ROAD SUITE 220-333 PLANO, TEXAS 75025 PH. (903) 570-0162 CONTACT: CODY JOHNSON, RLA, ASLA, LI

## GENERAL LANDSCAPE NOTES:

#### **INSPECTIONS:**

- 1. NO EXCAVATION SHALL OCCUR IN CITY R.O.W. WITHOUT A R.O.W. PERMIT--CONTACT THE PUBLIC WORKS DEPARTMENT.
- 2. THE CONTRACTOR SHALL MARK ALL WATER LINES, SEWER LINES, AND TREE LOCATIONS PRIOR TO CALLING FOR ROW INSPECTION AND PERMIT.
- 3. THE LANDSCAPE INSTALLATION SHALL COMPLY WITH APPROVED LANDSCAPE DRAWINGS PRIOR TO FINAL ACCEPTANCE BY THE CITY AND ISSUANCE OF A CERTIFICATE OF OCCUPANCY.
- WATER METERS, CLEANOUTS AND OTHER APPURTENANCES, SHALL BE ACCESSIBLE, ADJUSTED TO GRADE, CLEARLY MARKED WITH FLAGGING AND COMPLIANT WITH PUBLIC WORKS DEPARTMENT STANDARDS PRIOR TO CALLING FOR FINAL LANDSCAPE AND ROW INSPECTIONS.

#### LANDSCAPE STANDARDS:

- 1. PLANTINGS AND LANDSCAPE ELEMENTS SHALL COMPLY WITH THE CITY'S ENGINEERING DESIGN STANDARDS, PUBLIC R.O.W. VISIBILITY REQUIREMENTS.
- 2. UNLESS OTHERWISE SPECIFIED, TREES SHALL BE PLANTED NO LESS THAN 4' FROM CURBS, SIDEWALKS, UTILITY LINES, SCREENING WALLS AND OTHER STRUCTURES. THE CITY HAS FINAL APPROVAL FOR ALL TREE PLACEMENTS.
- 3. A MINIMUM THREE FEET (3') RADIUS AROUND A FIRE HYDRANT MUST REMAIN CLEAR OF LANDSCAPE PURSUANT TO THE FIRE CODE.
- 4. STREET TREES, WHERE REQUIRED, SHALL BE (10') MINIMUM FROM THE EDGE OF A STORM SEWER CURB INLET BOX AND THE EDGE OF THE ROOT BALL SHALL BE (4') MINIMUM FROM THE WATER METER.
- 5. THE AMERICAN STANDARD FOR NURSERY STOCK (ANSI Z60.1-2014) SPECIFICATIONS SHALL GOVERN PLANT QUALIFICATIONS, GRADES, AND STANDARDS. 6. TREE PLANTING SHALL COMPLY WITH DETAILS HEREIN AND THE INTERNATIONAL
- SOCIETY OF ARBORICULTURE (ISA) STANDARDS. 7. A 2-3" LAYER OF MULCH SHALL BE PROVIDED AROUND THE BASE OF THE PLANTED
- TREE. THE MULCH SHALL BE PULLED BACK 4" FROM THE TRUNK OF THE TREE 8. TREE PITS SHALL BE TESTED FOR WATER PERCOLATION. IF WATER DOES NOT DRAIN OUT OF TREE PIT WITHIN 24-HOURS, THE TREE SHALL BE MOVED OR
- DRAINAGE SHALL BE PROVIDED. 9. ALL BEDS TO HAVE 3" OF COMPOSTED SOIL, LIVING EARTH TECHNOLOGY, OR
- APPROVED EQUAL TILLED AND TURNED TO A DEPTH OF 8" MINIMUM. 10. ALL PLANT BEDS SHALL BE TOP-DRESSED WITH A MINIMUM OF 3 INCHES OF HARDWOOD MULCH.
- 11. NATIVE SITE TOPSOIL IS TO BE PROTECTED FROM EROSION OR STOCKPILED. NATIVE SITE TOPSOIL SHALL BE LABORATORY TESTED BY AND ACCREDITED LABORATORY AND AMENDED PER SAID LABORATORY'S RECOMMENDATIONS

#### **IRRIGATION STANDARDS:**

- 1. ANY CHANGES TO THESE APPROVED IRRIGATION DRAWINGS SHALL BE AUTHORIZED BY THE CITY. 2. CONTACT DEVELOPMENT SERVICES FOR AN IRRIGATION PERMIT PRIOR TO
- INSTALLING THE IRRIGATION SYSTEM.
- 3. IRRIGATION OVER-SPRAY ON STREETS AND WALKS IS PROHIBITED. 4. MAINLINES, VALVES, OR CONTROL WIRES SHALL NOT BE LOCATED IN THE CITY'S ROW.
- 5. ET IRRIGATION CONTROLLERS SHALL BE PROGRAMMED AND ADJUSTED TO NOT EXCEED THE LANDSCAPE WATER ALLOWANCE (LWA) PRIOR TO APPROVAL OF LANDSCAPE INSTALLATION.
- 6. VALVES SHALL BE LOCATED A MINIMUM OF (3') AWAY FROM STORM SEWERS, AND SANITARY SEWER LINES AND 5 FEET FROM CITY FIRE HYDRANTS AND WATER VALVES
- 7. THE BORE DEPTH UNDER STREETS, DRIVE AISLES, AND FIRE LANES SHALL PROVIDE (2) OF CLEARANCE (MINIMUM). IRRIGATION HEADS THAT RUN PARALLEL AND NEAR PUBLIC WATER AND SANITARY
- SEWER LINES; SHALL BE FED FROM STUBBED LATERALS OR BULL-BEADS. A MINIMUM FIVE FOOT (5') SEPARATION IS REQUIRED BETWEEN IRRIGATION MAIN LINES AND LATERALS THAT RUN PARALLEL TO PUBLIC WATER AND SANITARY SEWER LINES.
- 9. NO VALVES, BACKFLOW PREVENTION ASSEMBLIES, QUICK COUPLERS ETC. SHALL BE LOCATED CLOSER THAN 10' FROM THE CURB AT STREET OR DRIVE INTERSECTION.

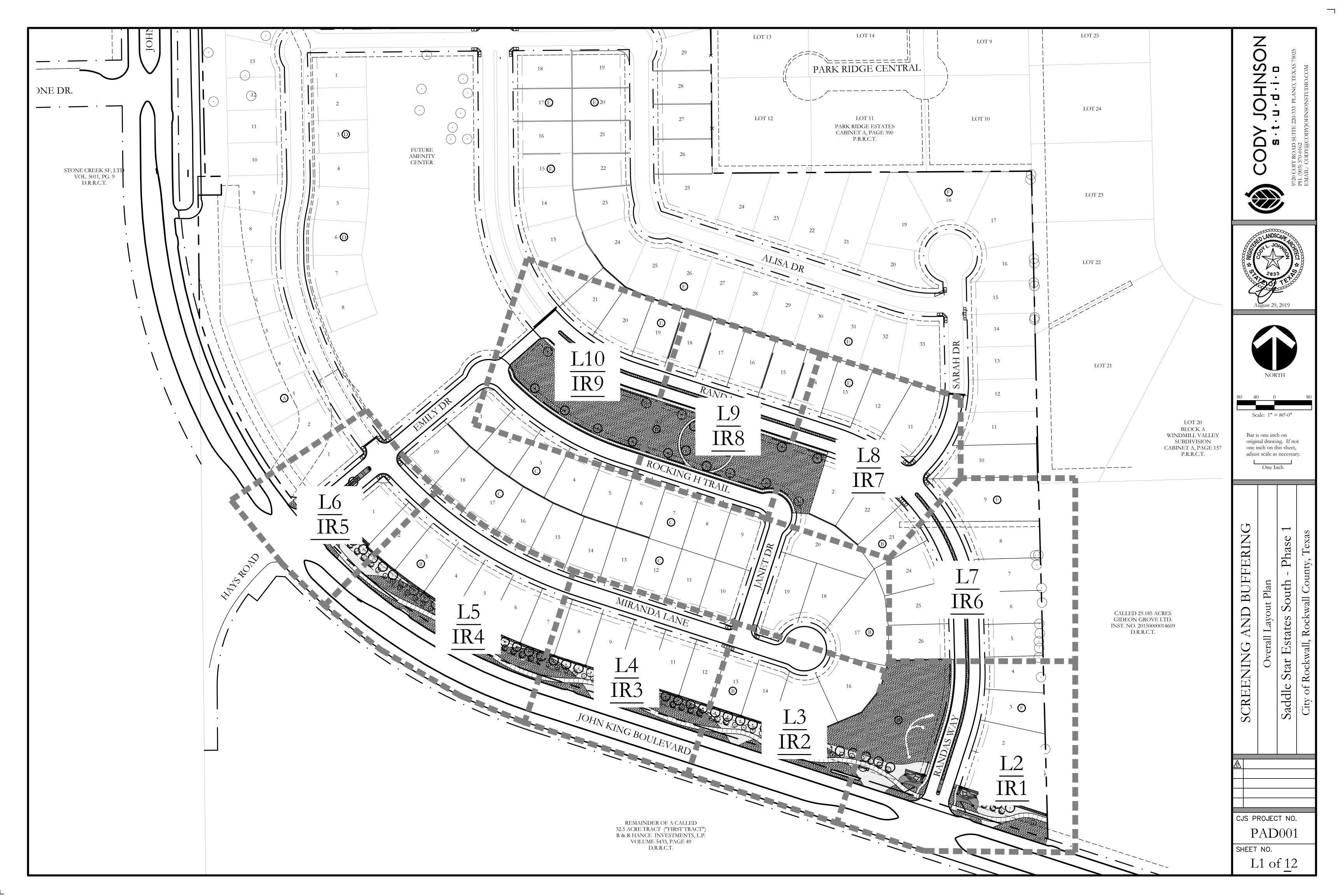
MAINTENANCE STANDARDS:

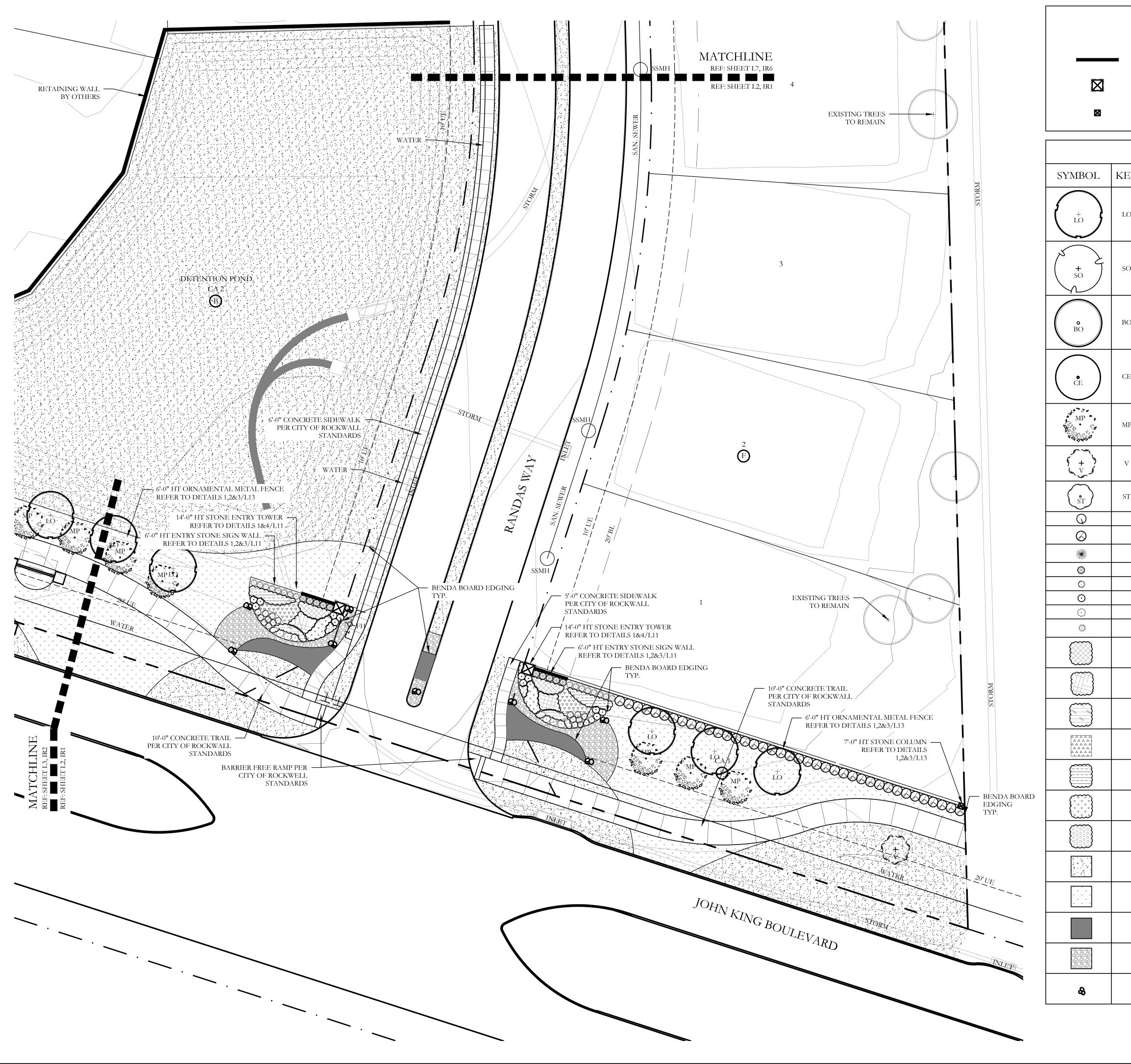
- 1. THE OWNER SHALL BE RESPONSIBLE FOR THE ESTABLISHMENT, MAINTENANCE, AND VIGOR OF PLANT MATERIAL IN ACCORDANCE WITH THE DESIGN INTENT AND AS APPROPRIATE FOR THE SEASON OF THE YEAR.
- 2. LANDSCAPE AND OPEN AREAS SHALL BE FREE OF TRASH, LITTER AND WEEDS. 3. NO PLANT MATERIAL SHALL BE ALLOWED TO ENCROACH ON R.O.W., SIDEWALKS OR EASEMENTS TO THE EXTENT THAT VISION OR ROUTE OF TRAVEL FOR VEHICULAR, PEDESTRIAN, OR BICYCLE TRAFFIC IS IMPEDED.
- 4. TREE MAINTENANCE SHALL BE IN ACCORDANCE WITH THE STANDARDS OF THE INTERNATIONAL SOCIETY OF ARBORICULTURE.
- 5. TREE STAKING MATERIALS, IF USED, SHALL BE REMOVED AFTER (1) GROWING SEASON, NO MORE THAN (1) YEAR AFTER INSTALLATION (STEEL TREE STAKES, WIRES, AND HOSES ARE PROHIBITED).

#### TREE PROTECTION NOTES:

- 1. CONTACT DEVELOPMENT SERVICES FOR A TREE REMOVAL PERMIT PRIOR TO REMOVAL OR TRANSPLANTING OF ANY TREES.
- 2. ALL TREES WHICH ARE TO REMAIN ON SITE SHALL BE PROTECTED WITH A (4') TALL BRIGHTLY COLORED PLASTIC FENCE, OR SILT FENCE, PLACED AT THE DRIP LINE OF THE TREES.
- 3. PRIOR TO THE PRE-CONSTRUCTION MEETING OR OBTAINING A GRADING PERMIT, ALL TREE MARKINGS AND PROTECTIVE FENCING SHALL BE INSTALLED BY THE OWNER AND BE INSPECTED BY DEVELOPMENT SERVICES.
- 4. NO EQUIPMENT SHALL BE CLEANED, OR HARMFUL LIQUIDS DEPOSITED WITHIN THE LIMITS OF THE ROOT ZONE OF TREES WHICH REMAIN ON SITE.
- 5. NO SIGNS, WIRES, OR OTHER ATTACHMENTS SHALL BE ATTACHED TO ANY TREE TO REMAIN ON SITE. 6. VEHICULAR AND CONSTRUCTION EQUIPMENT SHALL NOT PARK OR DRIVE WITHIN
- THE LIMITS OF THE DRIP LINE. 7. GRADE CHANGES IN EXCESS OF 3 INCHES (CUT OR FILL) SHALL NOT BE ALLOWED
- WITHIN A ROOT ZONE, UNLESS ADEQUATE TREE PRESERVATION METHODS ARE APPROVED BY THE CITY. 8. NO TRENCHING SHALL BE ALLOWED WITHIN THE DRIP-LINE OF A TREE, UNLESS
- APPROVED BY THE CITY. 9. ALL REMOVED TREES SHALL BE CHIPPED AND USED FOR MULCH ON SITE OR
- HAULED OFF-SITE. 10. ALL TREE MAINTENANCE TECHNIQUES SHALL BE IN CONFORMANCE WITH INDUSTRY IDENTIFIED STANDARDS. IMPROPER OR MALICIOUS PRUNING TECHNIQUES ARE STRICTLY PROHIBITED.



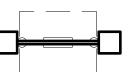




6'-0" HT. ENTRY SIGN WALL REFER TO DETAILS 1,2,&3/L11.

14'-0" HT. STONE ENTRY TOWER REFER TO DETAILS 1&4/L11.

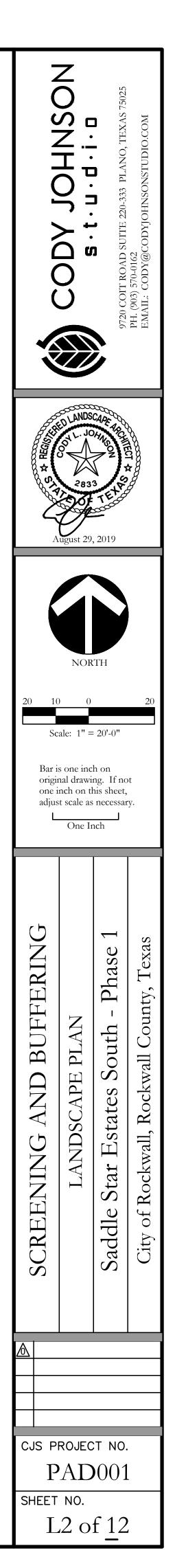
7'-0" HT. STONE COLUMN. REFER TO DETAILS 1,3&4/L13.

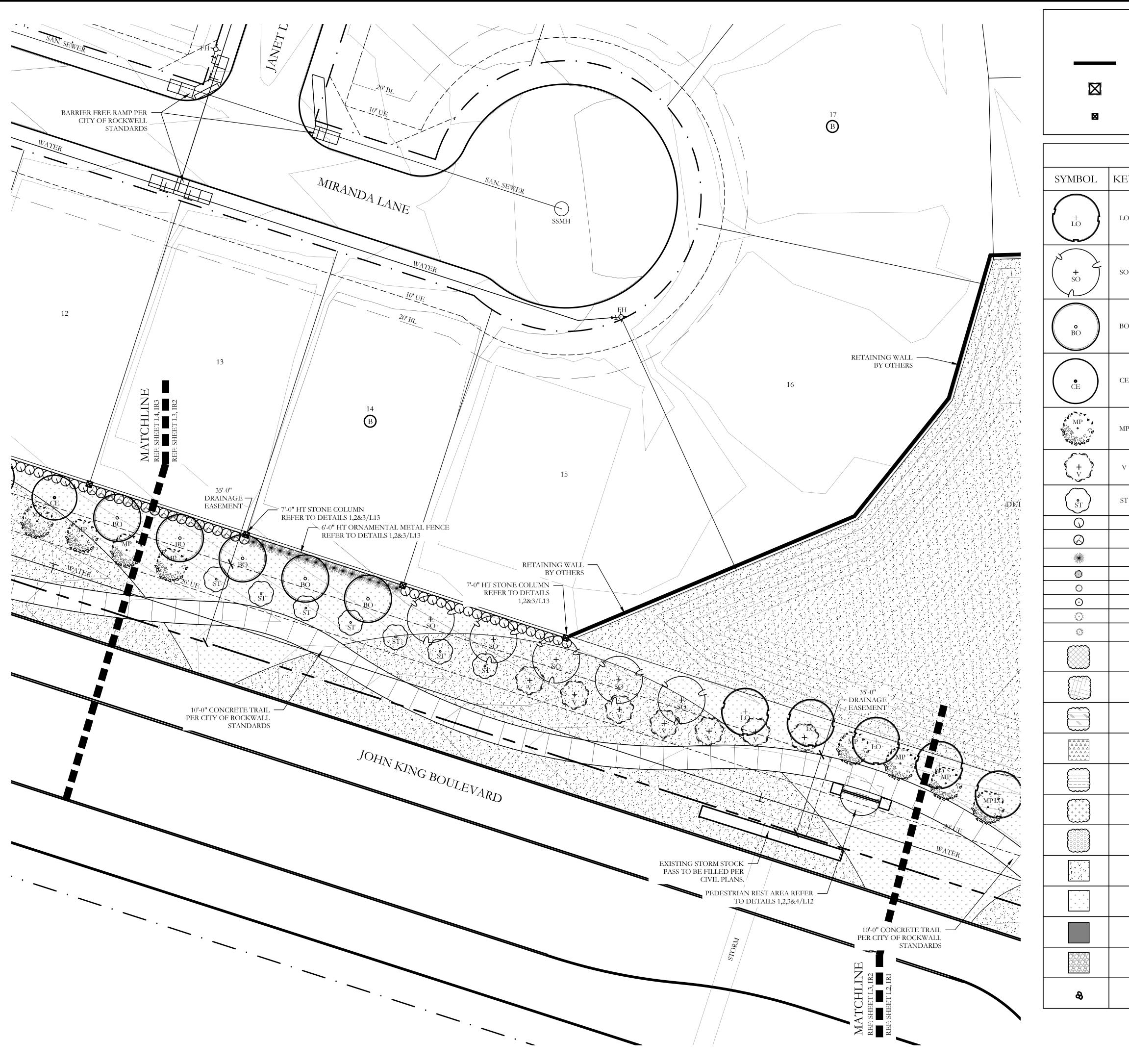


6'-0" HT. ORNAMENTAL METAL FENCE REFER TO DETAILS 1,2&3/L13.

#### PEDESTRIAN REST AREA REFER TO DETAILS 1,2,3&4/L12.

|    | PLANT LEGEND  |  |                |  |
|----|---|--|----------------|--|
| EY | COMMON NAME   | SCIENTIFIC NAME  | SIZE           | SPACING                                  |
| LO | LIVE OAK  | QUERCUS VIRGINIANA   | 4" CALIPER     | AS SHOWN                                 |
| 80 | SHUMARD OAK   | QUERCUS SHUMARDII  | 4" CALIPER     | AS SHOWN                                 |
| BO | BUR OAK   | QUERCUS MACROCARPA   | 4" CALIPER     | AS SHOWN                                 |
| CE | CEDAR ELM   | ULMUS CRASSIFOLIA  | 4" CALIPER     | AS SHOWN                                 |
| MP | MEXICAN PLUM  | PRUNUS MEXICANA  | 2" CALIPER     | AS SHOWN                                 |
| V  | CHASTE TREE   | VITEX AGNUS  | 2" CALIPER     | AS SHOWN                                 |
| ST | SMOKE TREE  | COTINUS COGGYGRIA  | 2" CALIPER     | AS SHOWN                                 |
|    | TEXAS SAGE  | LEUCOPHYLLUM FRUTESCENS  | 7 GALLON       | 48" O.C.                                 |
|    | EDWARD GOUCHER ABELIA   | ABELIA GRANDIFLORA<br>'EDWARD GOUCHER'                               | 7 GALLON       | 48" O.C.                                 |
|    | 'DALLAS BLUES'  | PANICUM VIRGATUM 'DALLAS   | 3 GAL.         | 36" O.C.                                 |
|    | SWITCHGRASS<br>INDIAN HAWTHORN 'SNOW'                         | BLUES'<br>RHAPHIOLEPIS INDICA 'SNOW'                                 | 3 GALLON       | 36" O.C.                                 |
|    | 'LITTLE SPIRE' RUSSIAN SAGE                                   | PEROVSKIA 'LITTLE SPIRE'   | 3 GAL.         | 36" O.C.                                 |
|    | RED YUCCA   | HESPERALOE PARVIFLORA  | 3 GALLON       | 36" O.C.                                 |
|    | QUEEN VICTORIA AGAVE  | AGAVE VICTORIAER REGINAE   | 3 GAL.         | 36" O.C.                                 |
|    | UPRIGHT ROSEMARY  | ROSMARINUS OFFICINALIS<br>'UPRIGHT'                                  | 3 GALLON       | 36" O.C.                                 |
|    | MAUVE WALLFLOWER  | ERYSIMUM 'BOWLES MAUVE'  | 1 GAL.         | 24" O.C.                                 |
|    | 'AUTUMN JOY' SEDUM  | sedum 'aut'umn joy'  | 1 GAL.         | 24" O.C.                                 |
|    | PURPLELEAF<br>WINTERCREEPER                                   | EUONYMUS FORTUNE<br>'COLORATUS'                                      | 1 GALLON       | 12" O.C.                                 |
|    | TAM JUNIPER   | JUNIPERUS SABINA<br>'TAMARISCIFOLIA'                                 | 7 GALLON       | 36" O.C.                                 |
|    | WEEPING LOVE GRASS  | ERAGROSTIS CURVULA   | 1 GALLON       | 18" O.C.                                 |
|    | DWARF SHASTA DAISY  | LEUCANTHEMUM X SUPERBUM  | 1 GALLON       | 24" O.C.                                 |
|    | LAVENDER COTTON   | SANTOLINA<br>CHAMAECYPARISSUS  | 1 GALLON       | 24" O.C.                                 |
|    | COMMON BERMUDA GRASS<br>HYDROMULCH                            | CYNODON DACTYLON   | SQUARE<br>FEET | HYDROMULCH                               |
|    | ВЕЕ НАРРҮ МІХ   | BY NATIVE AMERICAN SEED CO   | SQUARE<br>FEET | HYDROMULCH                               |
|    | BLACK STAR CRUSHED<br>GRANITE                                 | 3" DEPTH MINIMUM WITH<br>DEWITT 4.1 OZ FILTER FABRIC<br>BENEATH ROCK | SQUARE<br>FEET | <sup>3</sup> / <sub>4</sub> -1" DIAMETER |
|    | TEXAS RIVER ROCK;<br>MIX OF TANS, BROWNS,<br>GRAYS, AND PINKS | 3" DEPTH MINIMUM WITH<br>DEWITT 4.1 OZ FILTER FABRIC<br>BENEATH ROCK | SQUARE<br>FEET | EQUAL<br>COMBINATION<br>OF 1-2" AND 2-4" |
|    | OKLAHOMA MOSS ROCK<br>BOULDERS                                | BURY BOTTOM<br>THIRD OF BOULDER IN<br>LANDSCAPE BED.                 | 50 LB - 250 LB | FIELD LOCATE<br>ALL BOULDER<br>MASSES    |
|    |   |  |                |  |

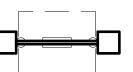




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14'-0" HT. STONE ENTRY TOWER REFER TO DETAILS 1&4/L11.

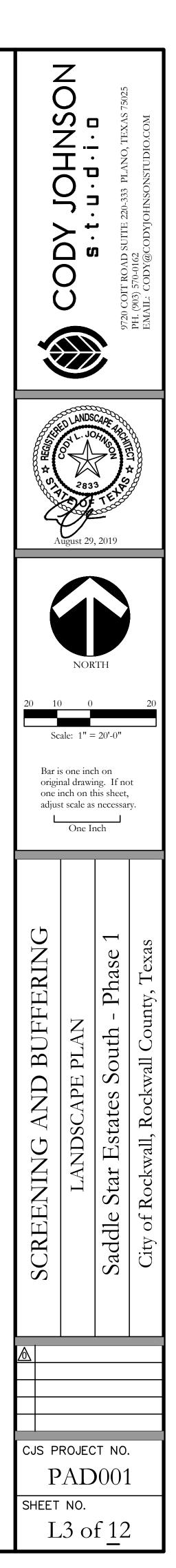
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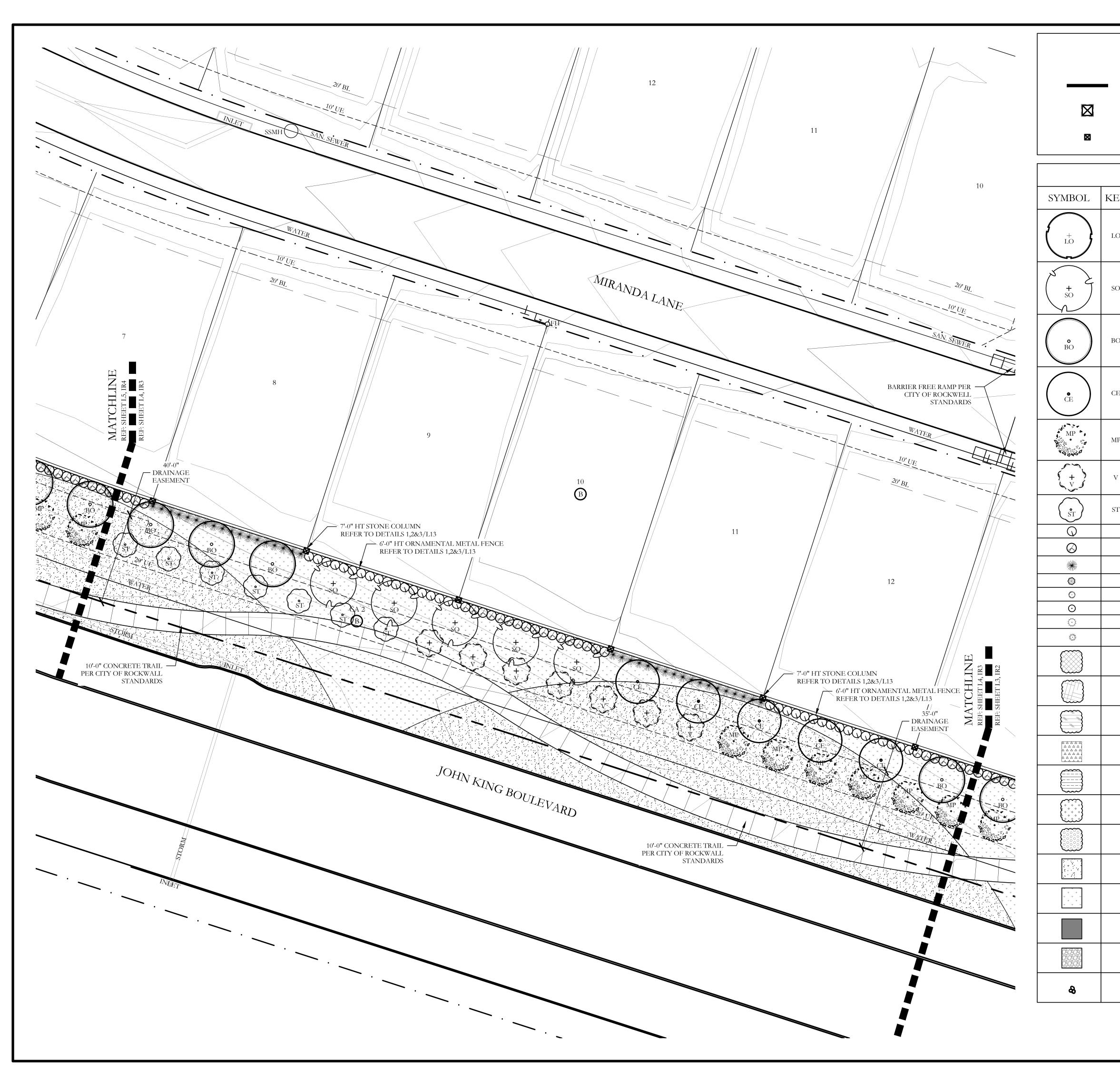


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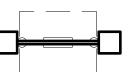




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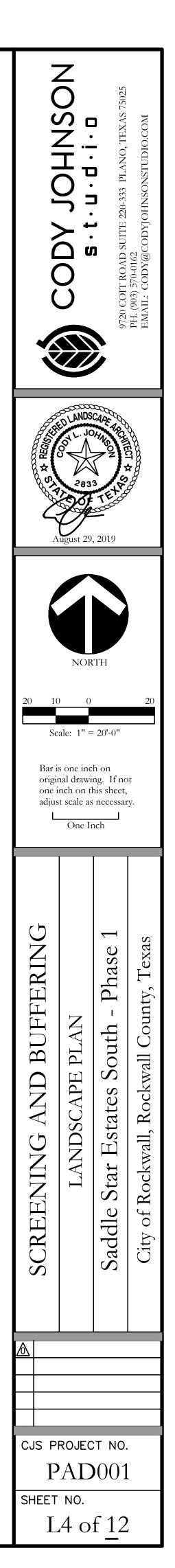
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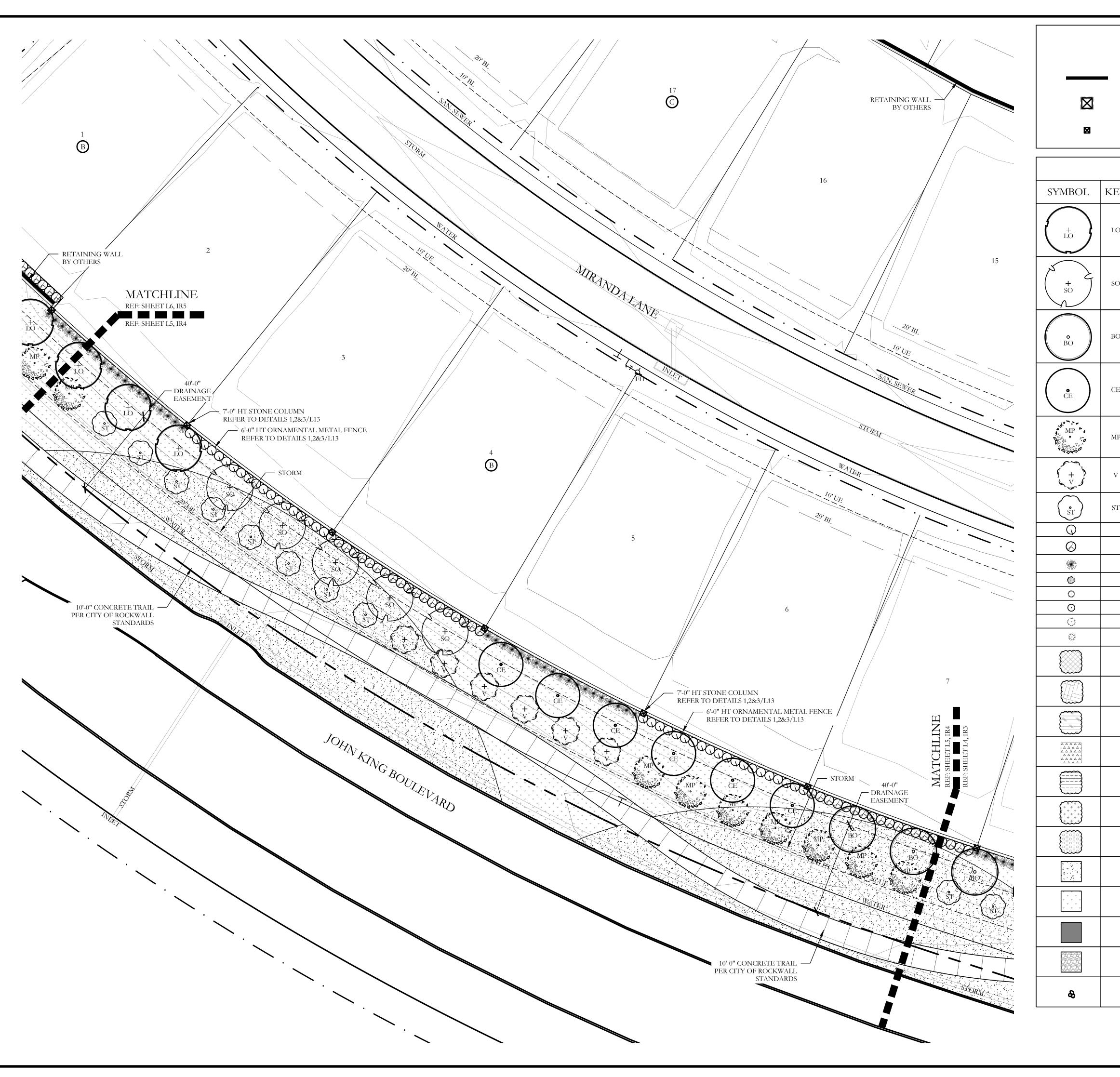


6'-0" HT. ORNAMENTAL METAL FENCE REFER TO DETAILS 1,2&3/L13.

#### PEDESTRIAN REST AREA REFER TO DETAILS 1,2,3&4/L12.

|    | PLANT   | ΓLEGEND  |                |  |
|----|---|--|----------------|--|
| EY | COMMON NAME   | SCIENTIFIC NAME  | SIZE           | SPACING                                  |
| LO | LIVE OAK  | QUERCUS VIRGINIANA   | 4" CALIPER     | AS SHOWN                                 |
| SO | SHUMARD OAK   | QUERCUS SHUMARDII  | 4" CALIPER     | AS SHOWN                                 |
| BO | BUR OAK   | QUERCUS MACROCARPA   | 4" CALIPER     | AS SHOWN                                 |
| CE | CEDAR ELM   | ULMUS CRASSIFOLIA  | 4" CALIPER     | AS SHOWN                                 |
| MP | MEXICAN PLUM  | PRUNUS MEXICANA  | 2" CALIPER     | AS SHOWN                                 |
| V  | CHASTE TREE   | VITEX AGNUS  | 2" CALIPER     | AS SHOWN                                 |
| ST | SMOKE TREE  | COTINUS COGGYGRIA  | 2" CALIPER     | AS SHOWN                                 |
|    | TEXAS SAGE  | LEUCOPHYLLUM FRUTESCENS  | 7 GALLON       | 48" O.C.                                 |
|    | EDWARD GOUCHER ABELIA   | ABELIA GRANDIFLORA<br>'EDWARD GOUCHER'                               | 7 GALLON       | 48" O.C.                                 |
|    | 'DALLAS BLUES'  | PANICUM VIRGATUM 'DALLAS   | 3 GAL.         | 36" O.C.                                 |
|    | SWITCHGRASS<br>INDIAN HAWTHORN 'SNOW'                         | BLUES'<br>RHAPHIOLEPIS INDICA 'SNOW'                                 | 3 GALLON       | 36" O.C.                                 |
|    | 'LITTLE SPIRE' RUSSIAN SAGE                                   | PEROVSKIA 'LITTLE SPIRE'   | 3 GAL.         | 36" O.C.                                 |
|    | RED YUCCA   | HESPERALOE PARVIFLORA  | 3 GALLON       | 36" O.C.                                 |
|    | QUEEN VICTORIA AGAVE  | AGAVE VICTORIAER REGINAE   | 3 GAL.         | 36" O.C.                                 |
|    | UPRIGHT ROSEMARY  | ROSMARINUS OFFICINALIS<br>'UPRIGHT'                                  | 3 GALLON       | 36" O.C.                                 |
|    | MAUVE WALLFLOWER  | ERYSIMUM 'BOWLES MAUVE'  | 1 GAL.         | 24" O.C.                                 |
|    | 'AUTUMN JOY' SEDUM  | sedum 'aut'umn joy'  | 1 GAL.         | 24" O.C.                                 |
|    | PURPLELEAF<br>WINTERCREEPER                                   | EUONYMUS FORTUNE<br>'COLORATUS'                                      | 1 GALLON       | 12" O.C.                                 |
|    | TAM JUNIPER   | JUNIPERUS SABINA<br>'TAMARISCIFOLIA'                                 | 7 GALLON       | 36" O.C.                                 |
|    | WEEPING LOVE GRASS  | ERAGROSTIS CURVULA   | 1 GALLON       | 18" O.C.                                 |
|    | DWARF SHASTA DAISY  | LEUCANTHEMUM X SUPERBUM  | 1 GALLON       | 24" O.C.                                 |
|    | LAVENDER COTTON   | SANTOLINA<br>CHAMAECYPARISSUS  | 1 GALLON       | 24" O.C.                                 |
|    | COMMON BERMUDA GRASS<br>HYDROMULCH                            | CYNODON DACTYLON   | SQUARE<br>FEET | HYDROMULCH                               |
|    | BEE HAPPY MIX   | BY NATIVE AMERICAN SEED CO   | SQUARE<br>FEET | HYDROMULCH                               |
|    | BLACK STAR CRUSHED<br>GRANITE                                 | 3" DEPTH MINIMUM WITH<br>DEWITT 4.1 OZ FILTER FABRIC<br>BENEATH ROCK | SQUARE<br>FEET | <sup>3</sup> / <sub>4</sub> -1" DIAMETER |
|    | TEXAS RIVER ROCK;<br>MIX OF TANS, BROWNS,<br>GRAYS, AND PINKS | 3" DEPTH MINIMUM WITH<br>DEWITT 4.1 OZ FILTER FABRIC<br>BENEATH ROCK | SQUARE<br>FEET | EQUAL<br>COMBINATION<br>OF 1-2" AND 2-4" |
|    | OKLAHOMA MOSS ROCK<br>BOULDERS                                | BURY BOTTOM<br>THIRD OF BOULDER IN<br>LANDSCAPE BED.                 | 50 LB - 250 LB | FIELD LOCATE<br>ALL BOULDER<br>MASSES    |
|    |   |  |                |  |

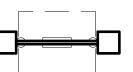




6'-0" HT. ENTRY SIGN WALL REFER TO DETAILS 1,2,&3/L11.

14'-0" HT. STONE ENTRY TOWER REFER TO DETAILS 1&4/L11.

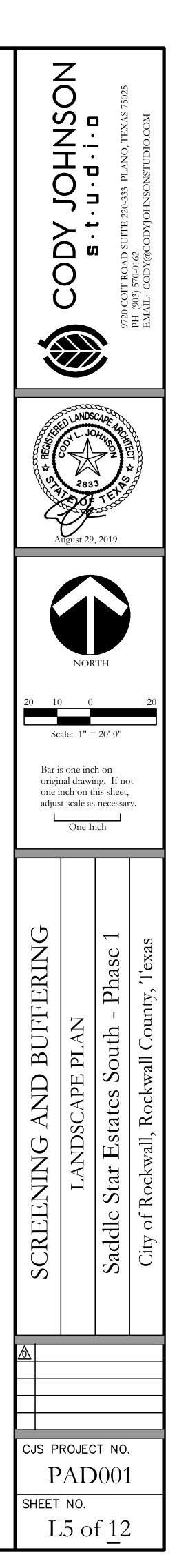
7'-0" HT. STONE COLUMN. REFER TO DETAILS 1,3&4/L13.

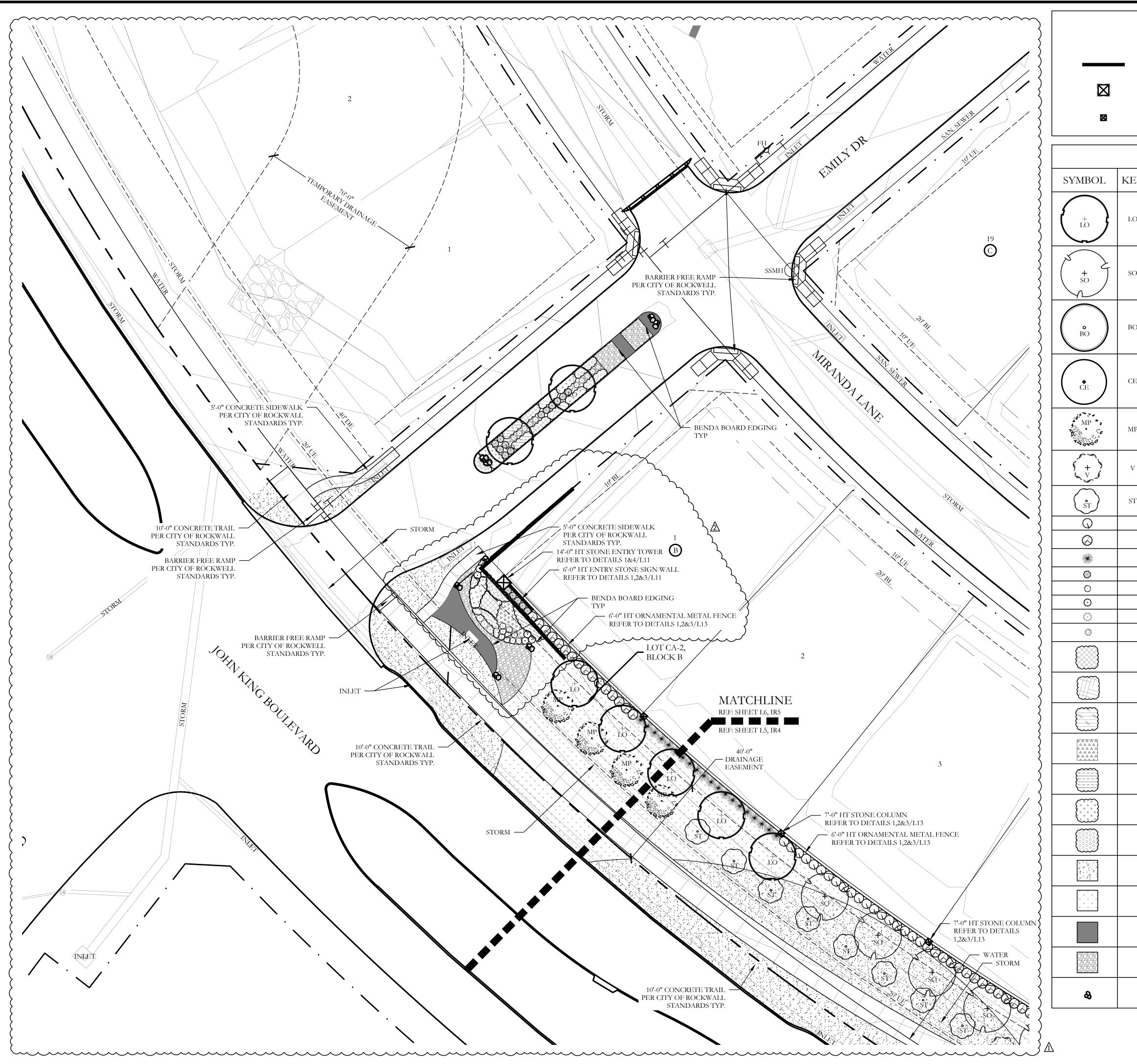


6'-0" HT. ORNAMENTAL METAL FENCE REFER TO DETAILS 1,2&3/L13.

#### PEDESTRIAN REST AREA REFER TO DETAILS 1,2,3&4/L12.

|    | PLANT   | ΓLEGEND  |                |  |
|----|---|--|----------------|--|
| EY | COMMON NAME   | SCIENTIFIC NAME  | SIZE           | SPACING                                  |
| LO | LIVE OAK  | QUERCUS VIRGINIANA   | 4" CALIPER     | AS SHOWN                                 |
| 80 | SHUMARD OAK   | QUERCUS SHUMARDII  | 4" CALIPER     | AS SHOWN                                 |
| во | BUR OAK   | QUERCUS MACROCARPA   | 4" CALIPER     | AS SHOWN                                 |
| CE | CEDAR ELM   | ULMUS CRASSIFOLIA  | 4" CALIPER     | AS SHOWN                                 |
| MP | MEXICAN PLUM  | PRUNUS MEXICANA  | 2" CALIPER     | AS SHOWN                                 |
| V  | CHASTE TREE   | VITEX AGNUS  | 2" CALIPER     | AS SHOWN                                 |
| ST | SMOKE TREE  | COTINUS COGGYGRIA  | 2" CALIPER     | AS SHOWN                                 |
|    | TEXAS SAGE  | LEUCOPHYLLUM FRUTESCENS  | 7 GALLON       | 48" O.C.                                 |
|    | EDWARD GOUCHER ABELIA   | ABELIA GRANDIFLORA<br>'EDWARD GOUCHER'                               | 7 GALLON       | 48" O.C.                                 |
|    | 'DALLAS BLUES'  | PANICUM VIRGAT'UM 'DALLAS  | 3 GAL.         | 36" O.C.                                 |
|    | SWITCHGRASS<br>INDIAN HAWTHORN 'SNOW'                         | BLUES'<br>RHAPHIOLEPIS INDICA 'SNOW'                                 | 3 GALLON       | 36" O.C.                                 |
|    | 'LITTLE SPIRE' RUSSIAN SAGE                                   | PEROVSKIA 'LITTLE SPIRE'   | 3 GALLON       | 36" O.C.                                 |
|    | RED YUCCA   | HESPERALOE PARVIFLORA  | 3 GALLON       | 36" O.C.                                 |
|    | QUEEN VICTORIA AGAVE  | AGAVE VICTORIAER REGINAE   | 3 GAL.         | 36" O.C.                                 |
|    | UPRIGHT ROSEMARY  | ROSMARINUS OFFICINALIS<br>'UPRIGHT'                                  | 3 GALLON       | 36" O.C.                                 |
|    | MAUVE WALLFLOWER  | ERYSIMUM 'BOWLES MAUVE'  | 1 GAL.         | 24" O.C.                                 |
|    | 'AUTUMN JOY' SEDUM  | SEDUM 'AUTUMN JOY'   | 1 GAL.         | 24" O.C.                                 |
|    | PURPLELEAF<br>WINTERCREEPER                                   | EUONYMUS FORTUNE<br>'COLORATUS'                                      | 1 GALLON       | 12" O.C.                                 |
|    | TAM JUNIPER   | JUNIPERUS SABINA<br>'TAMARISCIFOLIA'                                 | 7 GALLON       | 36" O.C.                                 |
|    | WEEPING LOVE GRASS  | ERAGROSTIS CURVULA   | 1 GALLON       | 18" O.C.                                 |
|    | DWARF SHASTA DAISY  | LEUCANTHEMUM X SUPERBUM  | 1 GALLON       | 24" O.C.                                 |
|    | LAVENDER COTTON   | SANTOLINA<br>CHAMAECYPARISSUS  | 1 GALLON       | 24" O.C.                                 |
|    | COMMON BERMUDA GRASS<br>HYDROMULCH                            | CYNODON DACTYLON   | SQUARE<br>FEET | HYDROMULCH                               |
|    | BEE HAPPY MIX   | BY NATIVE AMERICAN SEED CO   | SQUARE<br>FEET | HYDROMULCH                               |
|    | BLACK STAR CRUSHED<br>GRANITE                                 | 3" DEPTH MINIMUM WITH<br>DEWITT 4.1 OZ FILTER FABRIC<br>BENEATH ROCK | SQUARE<br>FEET | $\frac{3}{4}$ -1" DIAMETER               |
|    | TEXAS RIVER ROCK;<br>MIX OF TANS, BROWNS,<br>GRAYS, AND PINKS | 3" DEPTH MINIMUM WITH<br>DEWITT 4.1 OZ FILTER FABRIC<br>BENEATH ROCK | SQUARE<br>FEET | EQUAL<br>Combination<br>OF 1-2" and 2-4" |
|    | OKLAHOMA MOSS ROCK<br>BOULDERS                                | BURY BOTTOM<br>THIRD OF BOULDER IN<br>LANDSCAPE BED.                 | 50 LB - 250 LB | FIELD LOCATE<br>ALL BOULDER<br>MASSES    |
|    |   |  |                |  |

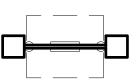




6'-0" HT. ENTRY SIGN WALL REFER TO DETAILS 1,2,&3/L11.

14'-0" HT. STONE ENTRY TOWER REFER TO DETAILS 1&4/L11.

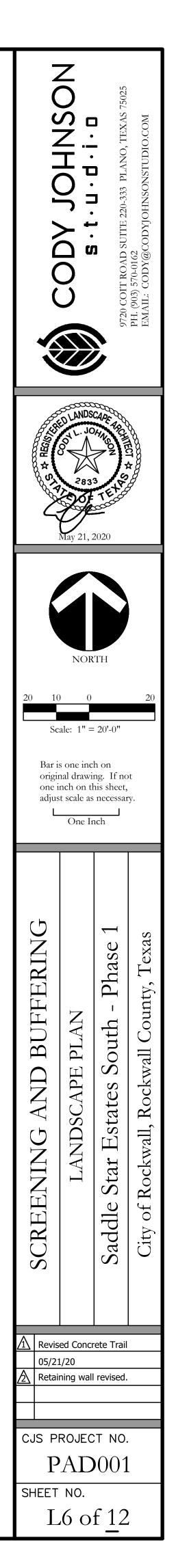
7'-0" HT. STONE COLUMN. REFER TO DETAILS 1,3&4/L13.

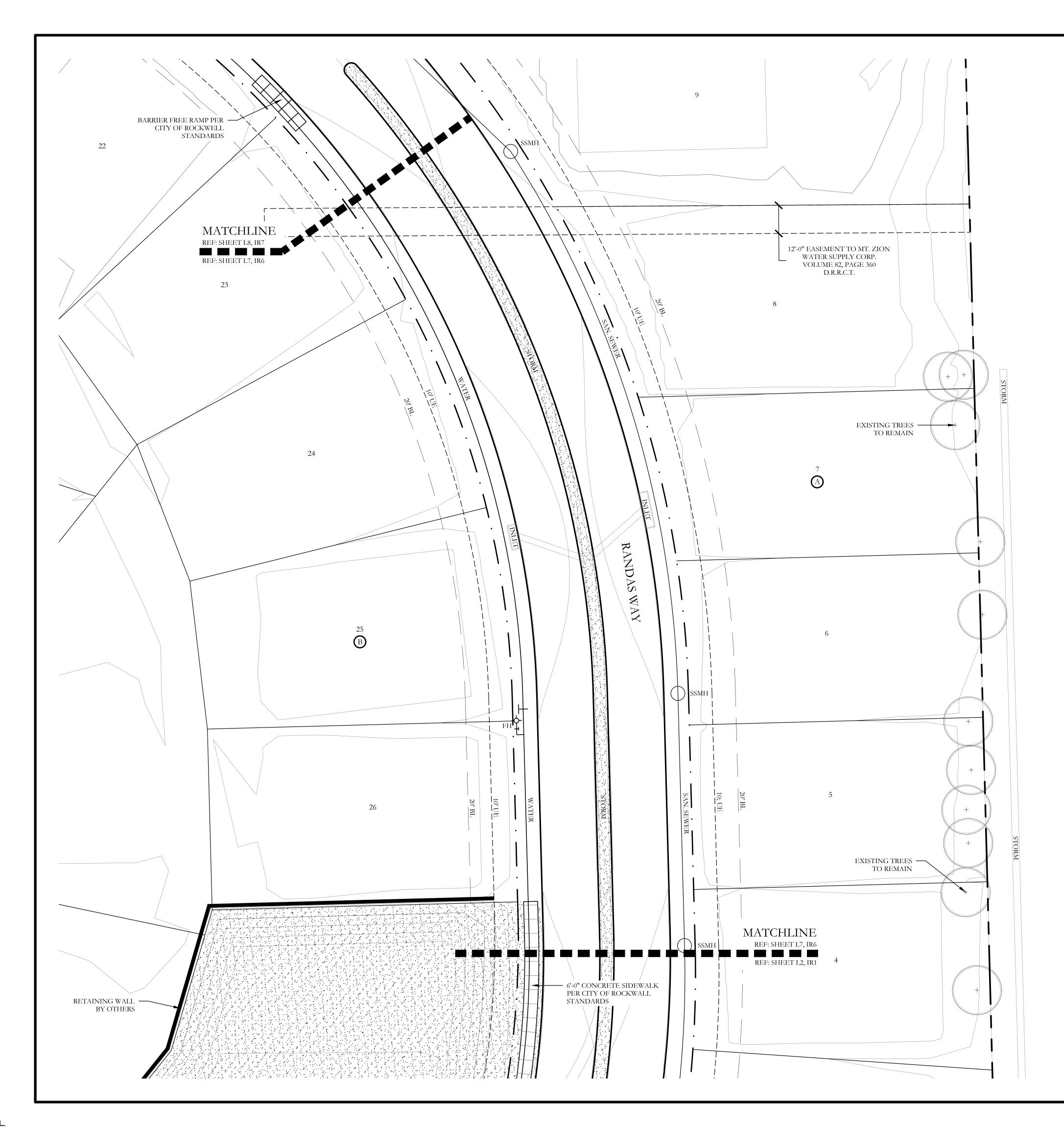


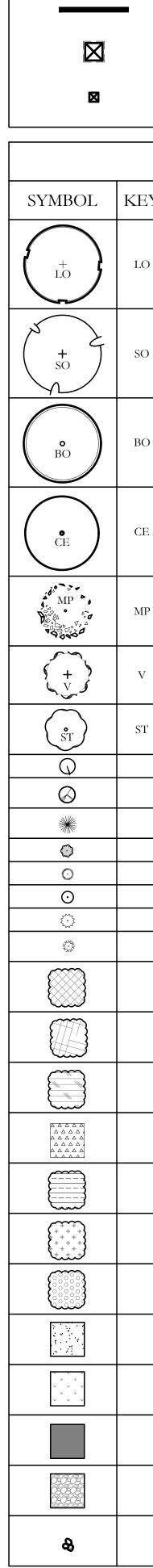
6'-0" HT. ORNAMENTAL METAL FENCE REFER TO DETAILS 1,2&3/L13.

#### PEDESTRIAN REST AREA REFER TO DETAILS 1,2,3&4/L12.

|    | PLANT   | ΓLEGEND  |                |  |
|----|---|--|----------------|--|
| EY | COMMON NAME   | SCIENTIFIC NAME  | SIZE           | SPACING                                  |
| 20 | LIVE OAK  | QUERCUS VIRGINIANA   | 4" CALIPER     | AS SHOWN                                 |
| 50 | SHUMARD OAK   | QUERCUS SHUMARDII  | 4" CALIPER     | AS SHOWN                                 |
| 30 | BUR OAK   | QUERCUS MACROCARPA   | 4" CALIPER     | AS SHOWN                                 |
| CE | CEDAR ELM   | ULMUS CRASSIFOLIA  | 4" CALIPER     | AS SHOWN                                 |
| мР | MEXICAN PLUM  | PRUNUS MEXICANA  | 2" CALIPER     | AS SHOWN                                 |
| V  | CHASTE TREE   | VITEX AGNUS  | 2" CALIPER     | AS SHOWN                                 |
| ST | SMOKE TREE  | COTINUS COGGYGRIA  | 2" CALIPER     | AS SHOWN                                 |
|    | TEXAS SAGE  | LEUCOPHYLLUM FRUTESCENS  | 7 GALLON       | 48" O.C.                                 |
|    | EDWARD GOUCHER ABELIA   | ABELIA GRANDIFLORA   | 7 GALLON       | 48" O.C.                                 |
|    |   | 'EDWARD GOUCHER'<br>PANICUM VIRGATUM 'DALLAS                         | / GALLOIN      | 46 0.0.                                  |
|    | 'DALLAS BLUES'<br>SWITCHGRASS                                 | BLUES'   | 3 GALLON       | 36" O.C.                                 |
|    | INDIAN HAWTHORN 'SNOW'  | RHAPHIOLEPIS INDICA 'SNOW'   | 3 GALLON       | 36" O.C.                                 |
|    | 'LITTLE SPIRE' RUSSIAN SAGE                                   | PEROVSKIA 'LITTLE SPIRE'   | 3 GALLON       | 36" O.C.                                 |
|    | RED YUCCA   | HESPERALOE PARVIFLORA  | 3 GALLON       | 36" O.C.                                 |
|    | QUEEN VICTORIA AGAVE  | AGAVE VICTORIAER REGINAE   | 3 GALLON       | 36" O.C.                                 |
|    | UPRIGHT ROSEMARY  | ROSMARINUS OFFICINALIS<br>'UPRIGHT'                                  | 3 GALLON       | 36" O.C.                                 |
|    | MAUVE WALLFLOWER  | ERYSIMUM 'BOWLES MAUVE'  | 1 GALLON       | 24" O.C.                                 |
|    | 'AUTUMN JOY' SEDUM  | sedum 'aut'umn joy'  | 1 GALLON       | 24" O.C.                                 |
|    | PURPLELEAF<br>WINTERCREEPER                                   | EUONYMUS FORTUNE<br>'COLORATUS'                                      | 1 GALLON       | 12" O.C.                                 |
|    | TAM JUNIPER   | JUNIPERUS SABINA<br>'TAMARISCIFOLIA'                                 | 7 GALLON       | 36" O.C.                                 |
|    | WEEPING LOVE GRASS  | ERAGROSTIS CURVULA   | 1 GALLON       | 18" O.C.                                 |
|    | DWARF SHASTA DAISY  | LEUCANTHEMUM X SUPERBUM  | 1 GALLON       | 24" O.C.                                 |
|    | LAVENDER COTTON   | SANTOLINA<br>CHAMAECYPARISSUS  | 1 GALLON       | 24" O.C.                                 |
|    | COMMON BERMUDA GRASS<br>HYDROMULCH                            | CYNODON DACTYLON   | SQUARE<br>FEET | HYDROMULCH                               |
|    | BEE HAPPY MIX   | BY NATIVE AMERICAN SEED CO   | SQUARE<br>FEET | HYDROMULCH                               |
|    | BLACK STAR CRUSHED<br>GRANITE                                 | 3" DEPTH MINIMUM WITH<br>DEWITT 4.1 OZ FILTER FABRIC<br>BENEATH ROCK | SQUARE<br>FEET | $\frac{3}{4}$ -1" DIAMETER               |
|    | TEXAS RIVER ROCK;<br>MIX OF TANS, BROWNS,<br>GRAYS, AND PINKS | 3" DEPTH MINIMUM WITH<br>DEWITT 4.1 OZ FILTER FABRIC<br>BENEATH ROCK | SQUARE<br>FEET | EQUAL<br>COMBINATION<br>OF 1-2" AND 2-4" |
|    | OKLAHOMA MOSS ROCK<br>BOULDERS                                | BURY BOTTOM<br>THIRD OF BOULDER IN<br>LANDSCAPE BED.                 | 50 LB - 250 LB | FIELD LOCATE<br>ALL BOULDER<br>MASSES    |
|    |   |  |                |  |



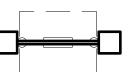




6'-0" HT. ENTRY SIGN WALL REFER TO DETAILS 1,2,&3/L11.

14'-0" HT. STONE ENTRY TOWER REFER TO DETAILS 1&4/L11.

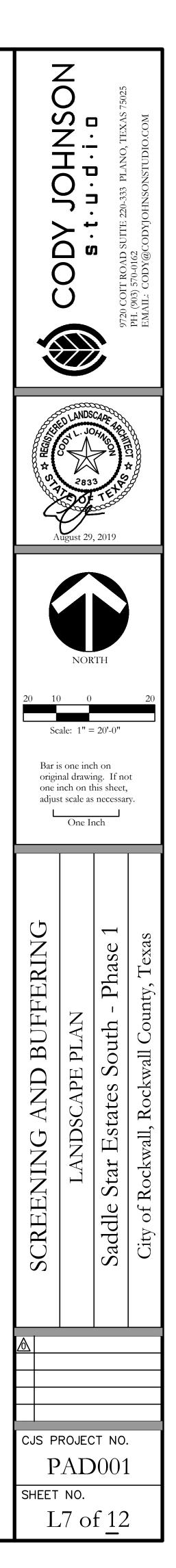
7'-0" HT. STONE COLUMN. REFER TO DETAILS 1,3&4/L13.

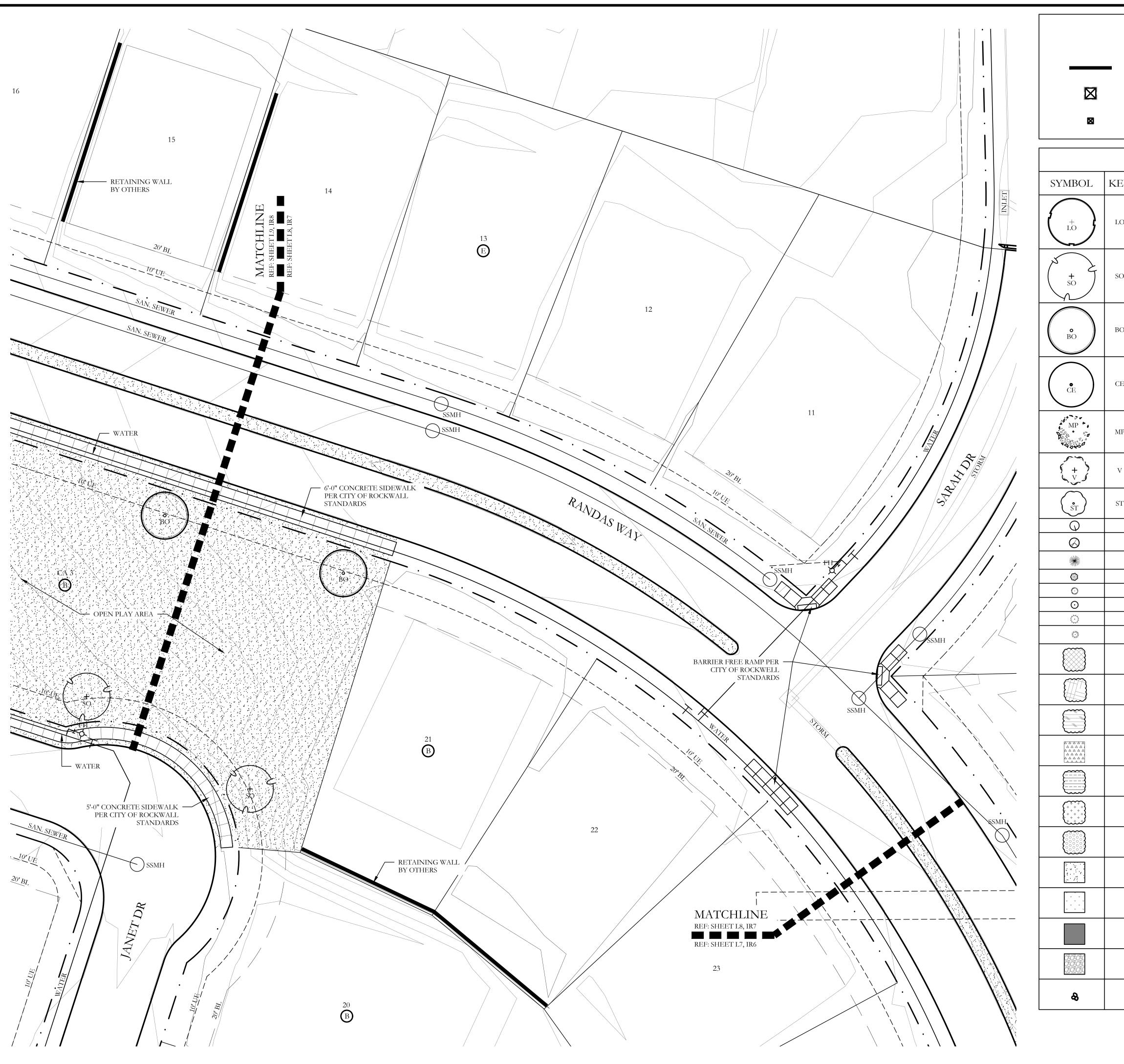


6'-0" HT. ORNAMENTAL METAL FENCE REFER TO DETAILS 1,2&3/L13.

#### PEDESTRIAN REST AREA REFER TO DETAILS 1,2,3&4/L12.

|    | PLAN  | ΓLEGEND  |                    |  |
|----|---|--|--------------------|--|
| EY | COMMON NAME   | SCIENTIFIC NAME  | SIZE               | SPACING                                  |
| LO | LIVE OAK  | QUERCUS VIRGINIANA   | 4" CALIPER         | AS SHOWN                                 |
| 80 | SHUMARD OAK   | QUERCUS SHUMARDII  | 4" CALIPER         | AS SHOWN                                 |
| 30 | BUR OAK   | QUERCUS MACROCARPA   | 4" CALIPER         | AS SHOWN                                 |
| CE | CEDAR ELM   | ULMUS CRASSIFOLIA  | 4" CALIPER         | AS SHOWN                                 |
| MP | MEXICAN PLUM  | PRUNUS MEXICANA  | 2" CALIPER         | AS SHOWN                                 |
| V  | CHASTE TREE   | VITEX AGNUS  | 2" CALIPER         | AS SHOWN                                 |
| ST | SMOKE TREE  | COTINUS COGGYGRIA  | 2" CALIPER         | AS SHOWN                                 |
|    | TEXAS SAGE  | LEUCOPHYLLUM FRUTESCENS  | 7 GALLON           | 48" O.C.                                 |
|    | EDWARD GOUCHER ABELIA   | ABELIA GRANDIFLORA   | 7 GALLON           | 48" O.C.                                 |
|    | 'DALLAS BLUES'  | 'EDWARD GOUCHER'<br>PANICUM VIRGAT'UM 'DALLAS                        | 3 GAL.             | 36" O.C.                                 |
|    | SWITCHGRASS   | BLUES'   |                    |  |
|    | INDIAN HAWTHORN 'SNOW'<br>'LITTLE SPIRE' RUSSIAN SAGE         | RHAPHIOLEPIS INDICA 'SNOW'<br>PEROVSKIA 'LITTLE SPIRE'               | 3 GALLON<br>3 GAL. | 36" O.C.<br>36" O.C.                     |
|    | RED YUCCA   | HESPERALOE PARVIFLORA  | 3 GALLON           | 36" O.C.                                 |
|    | QUEEN VICTORIA AGAVE  | AGAVE VICTORIAER REGINAE   | 3 GAL.             | 36" O.C.                                 |
|    | UPRIGHT ROSEMARY  | ROSMARINUS OFFICINALIS<br>'UPRIGHT'                                  | 3 GALLON           | 36" O.C.                                 |
|    | MAUVE WALLFLOWER  | ERYSIMUM 'BOWLES MAUVE'  | 1 GAL.             | 24" O.C.                                 |
|    | 'AUTUMN JOY' SEDUM  | SEDUM 'AUTUMN JOY'   | 1 GAL.             | 24" O.C.                                 |
|    | PURPLELEAF<br>WINTERCREEPER                                   | EUONYMUS FORTUNE<br>'COLORATUS'                                      | 1 GALLON           | 12" O.C.                                 |
|    | TAM JUNIPER   | JUNIPERUS SABINA<br>'TAMARISCIFOLIA'                                 | 7 GALLON           | 36" O.C.                                 |
|    | WEEPING LOVE GRASS  | ERAGROSTIS CURVULA   | 1 GALLON           | 18" O.C.                                 |
|    | DWARF SHASTA DAISY  | LEUCANTHEMUM X SUPERBUM  | 1 GALLON           | 24" O.C.                                 |
|    | LAVENDER COTTON   | SANTOLINA<br>CHAMAECYPARISSUS  | 1 GALLON           | 24" O.C.                                 |
|    | COMMON BERMUDA GRASS<br>HYDROMULCH                            | CYNODON DACTYLON   | SQUARE<br>FEET     | HYDROMULCH                               |
|    | BEE HAPPY MIX   | BY NATIVE AMERICAN SEED CO   | SQUARE<br>FEET     | HYDROMULCH                               |
|    | BLACK STAR CRUSHED<br>GRANITE                                 | 3" DEPTH MINIMUM WITH<br>DEWITT 4.1 OZ FILTER FABRIC<br>BENEATH ROCK | SQUARE<br>FEET     | $\frac{3}{4}$ -1" DIAMETER               |
|    | TEXAS RIVER ROCK;<br>MIX OF TANS, BROWNS,<br>GRAYS, AND PINKS | 3" DEPTH MINIMUM WITH<br>DEWITT 4.1 OZ FILTER FABRIC<br>BENEATH ROCK | SQUARE<br>FEET     | EQUAL<br>COMBINATION<br>OF 1-2" AND 2-4" |
|    | OKLAHOMA MOSS ROCK<br>BOULDERS                                | BURY BOTTOM<br>THIRD OF BOULDER IN<br>LANDSCAPE BED.                 | 50 LB - 250 LB     | FIELD LOCATE<br>ALL BOULDER<br>MASSES    |
|    |   |  |                    |  |

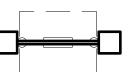




6'-0" HT. ENTRY SIGN WALL REFER TO DETAILS 1,2,&3/L11.

14'-0" HT. STONE ENTRY TOWER REFER TO DETAILS 1&4/L11.

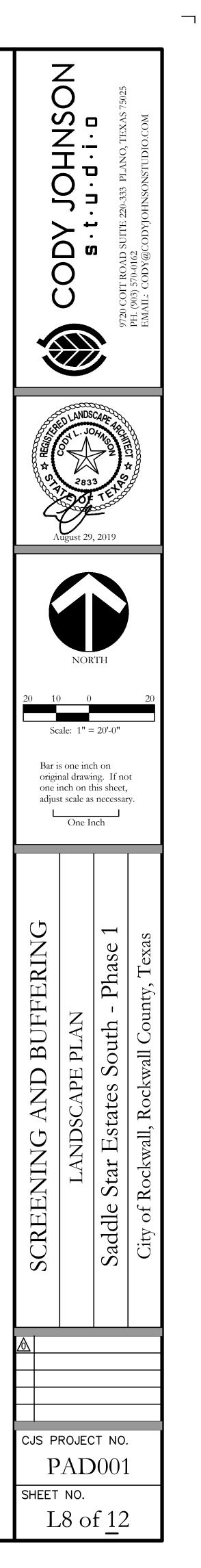
7'-0" HT. STONE COLUMN. REFER TO DETAILS 1,3&4/L13.

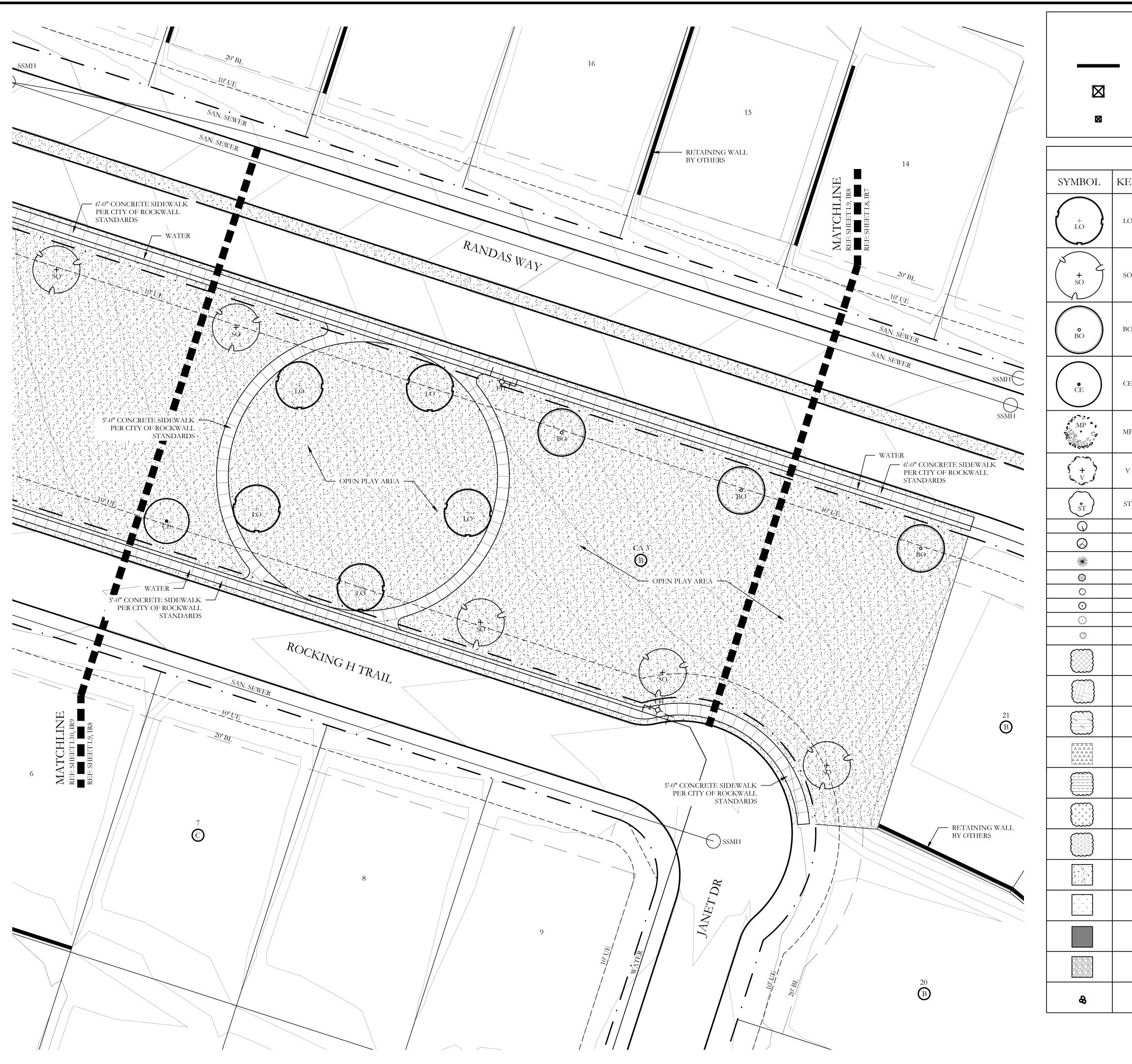


6'-0" HT. ORNAMENTAL METAL FENCE REFER TO DETAILS 1,2&3/L13.

#### PEDESTRIAN REST AREA REFER TO DETAILS 1,2,3&4/L12.

| .0       IVE OAK       QUERCUS VIRGINIANA       4" CALIPER       AS SHOWN         30       SHUMARD OAK       QUERCUS SHUMARDII       4" CALIPER       AS SHOWN         30       BUR OAK       QUERCUS MACROCARPA       4" CALIPER       AS SHOWN         30       BUR OAK       QUERCUS MACROCARPA       4" CALIPER       AS SHOWN         30       BUR OAK       QUERCUS MACROCARPA       4" CALIPER       AS SHOWN         30       BUR OAK       QUERCUS MACROCARPA       4" CALIPER       AS SHOWN         30       MEXICAN PLUM       PUNUS CRASSIFOLIA       4" CALIPER       AS SHOWN         MP       MEXICAN PLUM       PRUNUS MEXICANA       2" CALIPER       AS SHOWN         V       CHASTE TREE       VITEX AGNUS       2" CALIPER       AS SHOWN   |    | PLAN  | ΓLEGEND                                 |                |                            |  |
|--|----|---|---|----------------|----------------------------|--|
| Image: State of the state o  | EY | COMMON NAME                                   | SCIENTIFIC NAME                         | SIZE           | SPACING                    |  |
| Image: State of the set of   | LO | LIVE OAK                                      | QUERCUS VIRGINIANA                      | 4" CALIPER     | AS SHOWN                   |  |
| Image: State in the second st  | 50 | SHUMARD OAK                                   | QUERCUS SHUMARDII                       | 4" CALIPER     | AS SHOWN                   |  |
| Image: Section of the section of t  | 30 | BUR OAK                                       | QUERCUS MACROCARPA                      | 4" CALIPER     | AS SHOWN                   |  |
| Image: Section of the section of t  | CE | CEDAR ELM ULMUS CRASSIFOLIA 4" CALIPER AS SHO |   | AS SHOWN       |                            |  |
| Image: state in the state in | MP | MEXICAN PLUM                                  | LUM PRUNUS MEXICANA 2" CALIPER AS SHOWN |                | AS SHOWN                   |  |
| Image: constraint of the state of the sta | V  | CHASTE TREE                                   | VITEX AGNUS                             | 2" CALIPER     | AS SHOWN                   |  |
| EDWARD GOUCHER ABELIA       ABELIA GRANDIFLORA<br>ELWARD GOUCHER       7 GALLON       44° O.C.         DALLAS BLUES'<br>SWITCHGRASS       PANCOM VIRGATUM 'DALLAS       3 GAL       36° O.C.         INDIAN HAWTHORN 'SNOW'       RHAPHIOLEPIS INDICA 'SNOW'       3 GALLON       36° O.C.         11TTLE SPIRI'R USSIAN SAGE       PEROVSKIA 'LITTLE SPIRI'       3 GALLON       36° O.C.         QUEEN VICTORIA AGAVE       AGAVE VICTORIAER REGINAE       3 GALLON       36° O.C.         QUEEN VICTORIA AGAVE       AGAVE VICTORIAER REGINAE       3 GALLON       36° O.C.         QUEEN VICTORIA AGAVE       AGAVE VICTORIAER REGINAE       3 GALLON       36° O.C.         UPRIGHT ROSEMARY       ROSMARINUS OFFICINALIS       3 GALLON       36° O.C.         VURNEGHT ROSEMARY       ROSMARINUS OFFICINALIS       3 GALLON       36° O.C.         VURNEGHT ROSEMARY       SEDUM 'AUTUAIN JOY'       1 GAL.       24° O.C.         VURNEGHT RAFE       FUONYMUS FORTUNE       1 GALLON       12° O.C.         VURNER DELA       JUNIPERUS SABINA       7 GALLON       36° O.C.         VURNER JOVE GRASS       ERAGROSTIS CURVULA       1 GALLON       24° O.C.         DWARF SHASTA DAISY       LEUCANTHEMUM X SUPERBUM       1 GALLON       24° O.C.         LAVENDER COTTON       SANTOLINA<br>CHAMAECYPARISSUS  | ST | SMOKE TREE                                    | COTINUS COGGYGRIA                       | 2" CALIPER     | AS SHOWN                   |  |
| Individe Gouching and the second s                |    | TEXAS SAGE                                    | LEUCOPHYLLUM FRUTESCENS                 | 7 GALLON       | 48" O.C.                   |  |
| DALLAS BLUES'<br>SWITCHGRASS     PANICUM VIRGATUM 'DALLAS     3 GAL     36" O.C.       INDIAN HAWTHORN'SNOW*     RHAPPHOLEPIS INDICA'SNOW*     3 GALLON     36" O.C.       TITTLE SPIRE' RUSSIAN SAGE     PEROVSKIA LITTLE SPIRE'     3 GALL     36" O.C.       RED VUCCA     HISPIRALOU PARVITLORA     3 GALLON     36" O.C.       QUITN VICTORIA AGAVE     AGAVE VICTORIAE REGINAE     3 GALL     36" O.C.       UPRIGHT ROSEMARY     ROSMARINUS OFFICINALIS     3 GALLON     36" O.C.       MAUVE WALLILOWER     ERYSIMUM 'BOWLES MAUVE!     1 GAL.     24" O.C.       'AUTUMN JOY'SEDUM     SEDUM 'AUTUMN JOY"     1 GAL.     24" O.C.       'AUTUMN JOY'SEDUM     SEDUM 'AUTUMN JOY"     1 GAL.     24" O.C.       'PURPLELEAF     EUONYMUS FORTUNE     1 GALLON     12" O.C.       'TAM JUNIPER     JUNIPERUS SABINA<br>'TAMARISCH'OLIA'     7 GALLON     36" O.C.       WEEPING LOVE GRASS     ERAGROSTIS CURVULA     1 GALLON     18" O.C.       UWARE SHASTA DAISY     LEUCANTHEMUM X SUPERBUM     1 GALLON     24" O.C.       UWARE SHASTA DAISY     LEUCANTHEMUM X SUPERBUM     1 GALLON     24" O.C.       UWARE SHASTA DAISY     LEUCANTHEMUM X SUPERBUM     1 GALLON     24" O.C.       UWARE SHASTA DAISY     LEUCANTHEMUM X SUPERBUM     1 GALLON     24" O.C.       COMMON BERMUDA  |    | EDWARD GOUCHER ABELIA                         |   | 7 GALLON       | 48" O.C.                   |  |
| INDIAN HAWTHORN SNOW*       RHAPHIOLEPIS INDICA 'SNOW*       3 GALLON       36" O.C.         'LITTLE SPIRE' RUSSIAN SAGE       PEROVSKIA 'LITTLE SPIRE'       3 GALLON       36" O.C.         RED YUCCA       HESPERALOE PARVIFLORA       3 GALLON       36" O.C.         QUEEN VICTORIA AGAVE       AGAVE VICTORIAER REGINAE       3 GALLON       36" O.C.         UPRIGHT ROSEMARY       ROSMARINUS OFFICINALIS       3 GALLON       36" O.C.         MAUVE WALLFLOWER       ERYSIMUM 'BOWLES MAUVE'       1 GAL       24" O.C.         'AUTUMN JOY' SEDUM       SEDUM 'AUTUMN JOY'       1 GAL       24" O.C.         'PURPLELEAF       EUONYMUS FORTUNE       1 GALLON       12" O.C.         TAM JUNIPER       JUNIPERUS SABINA       7 GALLON       36" O.C.         WEEPING LOVE GRASS       ERAGROSTIS CURVULA       1 GALLON       12" O.C.         WWARF SHASTA DAISY       LEUCANTHEMUM X SUPERBUM       1 GALLON       24" O.C.         UWARF SHASTA DAISY       LEUCANTHEMUM X SUPERBUM       1 GALLON       24" O.C.         UWARF SHASTA DAISY       LEUCANTHEMUM X SUPERBUM       1 GALLON       24" O.C.         UWARF SHASTA DAISY       LEUCANTHEMUM X SUPERBUM       1 GALLON       24" O.C.         UWARF SHASTA DAISY       LEUCANTHEMUM X SUPERBUM       1 GALLON <td< td=""><td></td><td></td><td>PANICUM VIRGATUM 'DALLAS</td><td>3 GAL.</td><td>36" O.C.</td></td<>  |    |   | PANICUM VIRGATUM 'DALLAS                | 3 GAL.         | 36" O.C.                   |  |
| RED YUCCAHESPERALOE PARVIFLORA3 GALLON36" O.C.QUEEN VICTORIA AGAVEAGAVE VICTORIAER REGINAE3 GAL.36" O.C.UPRIGHT ROSEMARYROSMARINUS OFFICINALIS3 GALLON36" O.C.MAUVE WALLFLOWERERYSIMUM BOWLES MAUVE?1 GAL.24" O.C.'AUTUMN JOY' SEDUMSEDUM 'AUTUMN JOY'1 GAL.24" O.C.'AUTUMN JOY' SEDUMSEDUM 'AUTUMN JOY'1 GALLON12" O.C.'WINTERCREEPEREUONYMUS FORTUNE1 GALLON12" O.C.TAM JUNIPERJUNIPERUS SABINA<br>TAMARISCIFOLIA'7 GALLON36" O.C.WEEPING LOVE GRASSERAGROSTIS CURVULA1 GALLON36" O.C.DWARF SHASTA DAISYLEUCANTHEMUM X SUPERBUM1 GALLON24" O.C.LAVENDER COTIONSANTOLINA<br>CHAMAFCYPARISSUS1 GALLON24" O.C.BEE HAPPY MIXBY NATIVE AMERICAN SEED COSQUARE<br>HYDROMULCHHYDROMULCHBLACK STAR CRUSHED<br>GRANITE3" DEPTH MINIMUM WITH<br>DEWITT 4.1 OZ FILTER FABRIC<br>BEINATH ROCKSQUARE<br>FEETHYDROMULCHTEXAS RIVER ROCK;<br>GRANS AND PINKS3" DEPTH MINIMUM WITH<br>DEWITT 4.1 OZ FILTER FABRIC<br>BEINATH ROCKSQUARE<br>FEETLEUCANTOKI AHOMA MOSS ROCK<br>BURY BOTTOM<br>DENTT 4.1 OZ FILTER FABRICSQUARE<br>FEETCOMBINATION<br>OF 1-2" AND 2-4"OKI AHOMA MOSS ROCK<br>   |    |   |   | 3 GALLON       | 36" O.C.                   |  |
| QUEEN VICTORIA AGAVEAGAVE VICTORIAER REGINAE3 GAL36" O.C.UPRIGHT ROSEMARYROSMARINUS OFFICINALIS3 GALLON36" O.C.MAUVE WALLFLOWERERYSIMUM BOWLES MAUVE"1 GAL.24" O.C.'AUTUMN JOY' SEDUMSEDUM 'AUTUMN JOY"1 GAL.24" O.C.'AUTUMN JOY' SEDUMSEDUM 'AUTUMN JOY"1 GAL.24" O.C.'PURPLELEAFEUONYMUS FORTUNE1 GALLON12" O.C.'UNITERCREEPERFUONYMUS FORTUNE1 GALLON36" O.C.'UNITERCREEPERJUNIPERUS SABINA<br>'TAMARISCIFOLIA'7 GALLON36" O.C.WEEPING LOVE GRASSERAGROSTIS CURVULA1 GALLON36" O.C.UWARF SHASTA DAISYLEUCANTHEMUM X SUPERBUM1 GALLON24" O.C.LAVENDER COTTONSANTOLINA<br>CHAMAECYPARISSUS1 GALLON24" O.C.COMMON BERMUDA GRASS<br>HYDROMULCHCYNODON DACTYLONSQUARE<br>FEETHYDROMULCHBEE HAPPY MIXBY NATIVE AMERICAN SEED COSQUARE<br>FEETHYDROMULCHBI-ACK STAR CRUSHED<br>GRANTE3" DEPTH MINIMUM WITH<br>DEWITT 4.1 OZ FELTER FABRIC<br>BENEATH ROCKSQUARE<br>FEET+1" DIAMETER<br>GUANTEBI-ACK STAR CRUSHED<br>GRANTE3" DEPTH MINIMUM WITH<br>DEWITT 4.1 OZ FELTER FABRIC<br>BENEATH ROCKSQUARE<br>FEET+1" DIAMETER<br>FEET'MIX OF TANS, BROWNS,<br>GAAYS, AND PINKSBURY BOTTOM<br>BUNY BOTTOM<br>BUNY BOTTOM<br>THRD OF BOLDER INSO LB -2SO LBALL DOULDER<br>ALL DOULDER'BURY BOTTOM<br>BURY BOTTOM<br>CONDERSSO LB -2SO LBALL DOULDER'BURY BOTTOM<br>CONDERSBURY BOTTOM<br>ALL DOULDER  |    | 'LITTLE SPIRE' RUSSIAN SAGE                   | PEROVSKIA 'LITTLE SPIRE'                | 3 GAL.         | 36" O.C.                   |  |
| UPRIGHT ROSEMARY     ROSMARINUS OFFICINALIS     3 GALLON     36" O.C.       MAUVE WALLFLOWER     ERYSIMUM 'BOWLES MAUVE'     1 GAL.     24" O.C.       'AUTUMN JOY' SEDUM     SEDUM 'AUTUMN JOY"     1 GAL.     24" O.C.       'AUTUMN JOY' SEDUM     SEDUM 'AUTUMN JOY"     1 GAL.     24" O.C.       'PURPLELEAF     EUONYMUS FORTUNE     1 GALLON     12" O.C.       'TAM JUNIPER     JUNIPERUS SABINA<br>'TAMARISCIPOLIA'     7 GALLON     36" O.C.       WEEPING LOVE GRASS     ERAGROSTIS CURVULA     1 GALLON     36" O.C.       WEEPING LOVE GRASS     ERAGROSTIS CURVULA     1 GALLON     24" O.C.       DWARF SHASTA DAISY     LEUCANTHEMUM X SUPERBUM     1 GALLON     24" O.C.       LAVENDER COTTON     SANTOLINA<br>CHAMAECYPARISSUS     1 GALLON     24" O.C.       COMMON BERMUDA GRASS     CYNODON DACTYLON     SQUARE<br>FEET     HYDROMULCH       BEE HAPPY MIX     BY NATIVE AMERICAN SEED CO     SQUARE<br>FEET     HYDROMULCH       BLACK STAR CRUSHED     3" DEPTH MINIMUM WITH<br>DEWTT 4.1 OZ HILTER FABRIC<br>GRANTE     SQUARE<br>FEET     HYDROMULCH       TEXAS RIVER ROCK:<br>MIX OF TANS, BROWNS,<br>GRAYS, AND PINKS     3" DEPTH MINIMUM WITH<br>DEWTT 4.1 OZ HILTER FABRIC<br>BENEATH ROCK     SQUARE<br>FEET     4" DIAMETER       OKLAHOMA MOSS ROCK     BURY BOTTOM     50 LB - 250LB     ALL BOLLDER <td></td> <td></td> <td></td> <td></td> <td></td>   |    |   |   |                |                            |  |
| UPRIGHT ROSEMARYUPRIGHT3 GALLON30 O.C.MAUVE WALLFLOWERERYSIMUM 'BOWLES MAUVE'1 GAL24" O.C.'AUTUMN JOY' SEDUMSEDUM 'AUTUMN JOY'1 GAL24" O.C.'AUTUMN JOY' SEDUMSEDUM 'AUTUMN JOY'1 GALLON12" O.C.WINTERCREEPEREUONYMUS FORTUNE<br>'COLORATUS'1 GALLON12" O.C.TAM JUNIPERJUNIPERUS SABINA<br>'TAMARISCIFOLIA'7 GALLON36" O.C.WEEPING LOVE GRASSERAGROSTIS CURVULA1 GALLON18" O.C.DWARF SHASTA DAISYLEUCANTHEMUM X SUPERBUM1 GALLON24" O.C.LAVENDER COTTONSANTOLINA<br>CHAMAECYPARISSUS1 GALLON24" O.C.COMMON BERMUDA GRASS<br>HYDROMULCHCYNODON DACTYLONSQUARE<br>FEETHYDROMULCHBEE HAPPY MIXBY NATIVE AMERICAN SEED COSQUARE<br>FEETHYDROMULCHBLACK STAR CRUSHED<br>GRANTE3" DEPTH MINIMUM WITH<br>DEWTT 4.1 OZ FILTER FABRIC<br>BENEATH ROCKSQUARE<br>FEET  |    |   |   |                |                            |  |
| Image: constraint of the second sec |    | UPRIGHT ROSEMARY                              |   | 3 GALLON       | 36" O.C.                   |  |
| PURPLELEAF<br>WINTERCREEPEREUONYMUS FORTUNE<br>COLORATUS'1 GALLON12" O.C.TAM JUNIPERJUNIPERUS SABINA<br>TAMARISCIFOLLA'7 GALLON36" O.C.WEEPING LOVE GRASSERAGROSTIS CURVULA1 GALLON36" O.C.WEEPING LOVE GRASSERAGROSTIS CURVULA1 GALLON18" O.C.DWARF SHASTA DAISYLEUCANTHEMUM X SUPERBUM1 GALLON24" O.C.LAVENDER COTTONSANTOLINA<br>CHAMAECYPARISSUS1 GALLON24" O.C.COMMON BERMUDA GRASSCYNODON DACTYLONSQUARE<br>FEETHYDROMULCHBEE HAPPY MIXBY NATIVE AMERICAN SEED COSQUARE<br>FEETHYDROMULCHBLACK STAR CRUSHED<br>  |    | MAUVE WALLFLOWER                              | ERYSIMUM 'BOWLES MAUVE'                 | 1 GAL.         | 24" O.C.                   |  |
| WINTERCREEPER'COLORATUS'I GALLON12" O.C.TAM JUNIPERJUNIPERUS SABINA<br>'TAMARISCIFOLIA'7 GALLON36" O.C.WEEPING LOVE GRASSERAGROSTIS CURVULA1 GALLON18" O.C.DWARF SHASTA DAISYLEUCANTHEMUM X SUPERBUM1 GALLON24" O.C.LAVENDER COTTONSANTOLINA<br>CHAMAECYPARISSUS1 GALLON24" O.C.COMMON BERMUDA GRASSCYNODON DACTYLONSQUARE<br>FEETHYDROMULCHBEE HAPPY MIXBY NATIVE AMERICAN SEED COSQUARE<br>FEETHYDROMULCHBLACK STAR CRUSHED<br>GRANTE3" DEPTH MINIMUM WITH<br>DEWITT 4.1 OZ FILTER FABRIC<br>BENEATH ROCKSQUARE<br>FEET\$4.1" DIAMETER<br>COMBINATION<br>OF 1-2" AND 2-4"TEXAS RIVER ROCK;<br>RAYS, AND PINKS3" DEPTH MINIMUM WITH<br>DEWITT 4.1 OZ FILTER FABRIC<br>BENEATH ROCKSQUARE<br>FEET\$QUARE<br>FEETTEXAS RIVER ROCK;<br>BURY BOTTOM<br>THIND OF BOULDER INSUB - 250 LBFELD LOCATE<br>ALL BOULDEROKLAHOMA MOSS ROCK<br>FOLD LOCATE<br>ALL BOULDERBURY BOTTOM<br>THIND OF BOULDER INS0 LB - 250 LBFELD LOCATE<br>ALL BOULDER  |    | 'AUTUMN JOY' SEDUM                            | sedum 'Aut'umn Joy'                     | 1 GAL.         | 24" O.C.                   |  |
| PARTYONNERPARTYONPARTYONPARTYONPARTYONPARTYONWEEPING LOVE GRASSERAGROSTIS CURVULA1 GALLON18" O.C.DWARF SHASTA DAISYLEUCANTHEMUM X SUPERBUM1 GALLON24" O.C.LAVENDER COTTONSANTOLINA<br>CHAMAECYPARISSUS1 GALLON24" O.C.COMMON BERMUDA GRASSCYNODON DACTYLONSQUARE<br>FEETHYDROMULCHBEE HAPPY MIXBY NATIVE AMERICAN SEED COSQUARE<br>FEETHYDROMULCHBLACK STAR CRUSHED3" DEPTH MINIMUM WITH<br>DEWTIT 4.1 OZ FILTER FABRIC<br>BENEATH ROCKSQUARE<br>FEET‡1" DIAMETERTEXAS RIVER ROCK;<br>GRAYS, AND PINKS3" DEPTH MINIMUM WITH<br>DEWTIT 4.1 OZ FILTER FABRIC<br>BENEATH ROCKSQUARE<br>FEET£QUAL<br>COMBINATION<br>OF 1.2" AND 2.4"OKLAHOMA MOSS ROCK<br>BURY BOTTOM<br>THIRD OF BOULDER IN50 LB - 250 LBFILD LOCATE<br>ALL BOULDER   |    |   |   | 1 GALLON       | 12" O.C.                   |  |
| Image: constraint of the second sec |    | TAM JUNIPER                                   |   | 7 GALLON       | 36" O.C.                   |  |
| Image: constraint of the section of |    | WEEPING LOVE GRASS                            | ERAGROSTIS CURVULA                      | 1 GALLON       | 18" O.C.                   |  |
| LAVENDER COTTONCHAMAECYPARISSUSI GALLON24° O.C.COMMON BERMUDA GRASS<br>HYDROMULCHCYNODON DACTYLONSQUARE<br>FEETHYDROMULCHBEE HAPPY MIXBY NATIVE AMERICAN SEED COSQUARE<br>FEETHYDROMULCHBLACK STAR CRUSHED<br>GRANITE3" DEPTH MINIMUM WITH<br>DEWITT 4.1 OZ FILTER FABRIC<br>BENEATH ROCKSQUARE<br>FEET $\frac{3}{4}$ 1" DIAMETERTEXAS RIVER ROCK;<br>MIX OF TANS, BROWNS,<br>GRAYS, AND PINKS3" DEPTH MINIMUM WITH<br>DEWITT 4.1 OZ FILTER FABRIC<br>BENEATH ROCKSQUARE<br>FEET $\frac{3}{4}$ 1" DIAMETEROKLAHOMA MOSS ROCK<br>BURY BOTTOM<br>THIRD OF BOULDER IN50 LB - 250 LBFIELD LOCATE<br>ALL BOULDER  |    | DWARF SHASTA DAISY                            | LEUCANTHEMUM X SUPERBUM                 | 1 GALLON       | 24" O.C.                   |  |
| HYDROMULCHCYNODON DACTYLONFEETHYDROMULCHBEE HAPPY MIXBY NATIVE AMERICAN SEED COSQUARE<br>FEETHYDROMULCHBLACK STAR CRUSHED<br>GRANITE3" DEPTH MINIMUM WITH<br>DEWITT 4.1 OZ FILTER FABRIC<br>BENEATH ROCKSQUARE<br>FEET $\frac{3}{4}$ -1" DIAMETERTEXAS RIVER ROCK;<br>MIX OF TANS, BROWNS,<br>GRAYS, AND PINKS3" DEPTH MINIMUM WITH<br>DEWITT 4.1 OZ FILTER FABRIC<br>BENEATH ROCKSQUARE<br>FEET $\frac{2}{4}$ -1" DIAMETEROKLAHOMA MOSS ROCK<br>BOUL DERSBURY BOTTOM<br>THIRD OF BOULDER IN50 LB - 250 LBFIELD LOCATE<br>ALL BOULDER  |    | LAVENDER COTTON                               |   | 1 GALLON       | 24" O.C.                   |  |
| BEE HAPPT MIXBT NATIVE AMERICAN SEED COFEETHTDROMULCHBLACK STAR CRUSHED<br>GRANITE3" DEPTH MINIMUM WITH<br>DEWITT 4.1 OZ FILTER FABRIC<br>BENEATH ROCKSQUARE<br>FEET $\frac{3}{4}$ -1" DIAMETERTEXAS RIVER ROCK;<br>MIX OF TANS, BROWNS,<br>GRAYS, AND PINKS3" DEPTH MINIMUM WITH<br>DEWITT 4.1 OZ FILTER FABRIC<br>BENEATH ROCKSQUARE<br>FEETEQUAL<br>COMBINATION<br>OF 1-2" AND 2-4"OKLAHOMA MOSS ROCK<br>BOULDERSBURY BOTTOM<br>THIRD OF BOULDER IN50 LB - 250 LBFIELD LOCATE<br>ALL BOULDER  |    |   | CYNODON DACTYLON                        |                | HYDROMULCH                 |  |
| BLACK STAR CRUSHED<br>GRANITEDEWITT 4.1 OZ FILTER FABRIC<br>BENEATH ROCKSQUARE<br>FEET $\frac{3}{4}$ -1" DIAMETERTEXAS RIVER ROCK;<br>MIX OF TANS, BROWNS,<br>GRAYS, AND PINKS3" DEPTH MINIMUM WITH<br>DEWITT 4.1 OZ FILTER FABRIC<br>BENEATH ROCKSQUARE<br>FEETEQUAL<br>COMBINATION<br>OF 1-2" AND 2-4"OKLAHOMA MOSS ROCK<br>BOUL DERSBURY BOTTOM<br>THIRD OF BOULDER IN50 LB - 250 LBFIELD LOCATE<br>ALL BOULDER   |    | BEE HAPPY MIX                                 | BY NATIVE AMERICAN SEED CO              |                | HYDROMULCH                 |  |
| MIX OF TANS, BROWNS,<br>GRAYS, AND PINKSDEWITT 4.1 OZ FILTER FABRIC<br>BENEATH ROCKSQUARE<br>FEETCOMBINATION<br>OF 1-2" AND 2-4"OKLAHOMA MOSS ROCK<br>BOULDERSBURY BOTTOM<br>THIRD OF BOULDER IN50 LB - 250 LBFIELD LOCATE<br>ALL BOULDER  |    |   | DEWITT 4.1 OZ FILTER FABRIC             |                | $\frac{3}{4}$ -1" DIAMETER |  |
| OKLAHOMA MOSS ROCK<br>BOULDERSTHIRD OF BOULDER IN50 LB - 250 LBALL BOULDER   |    | MIX OF TANS, BROWNS,                          | DEWITT 4.1 OZ FILTER FABRIC             |                | COMBINATION                |  |
|  |    |   | THIRD OF BOULDER IN                     | 50 LB - 250 LB | ALL BOULDER                |  |

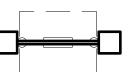




6'-0" HT. ENTRY SIGN WALL REFER TO DETAILS 1,2,&3/L11.

14'-0" HT. STONE ENTRY TOWER REFER TO DETAILS 1&4/L11.

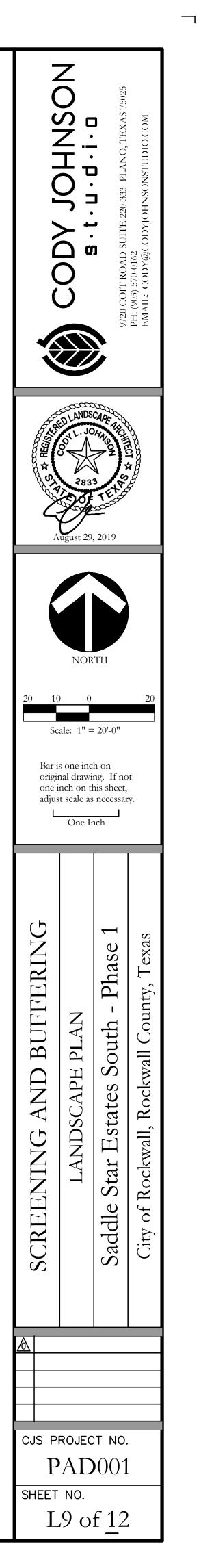
7'-0" HT. STONE COLUMN. REFER TO DETAILS 1,3&4/L13.

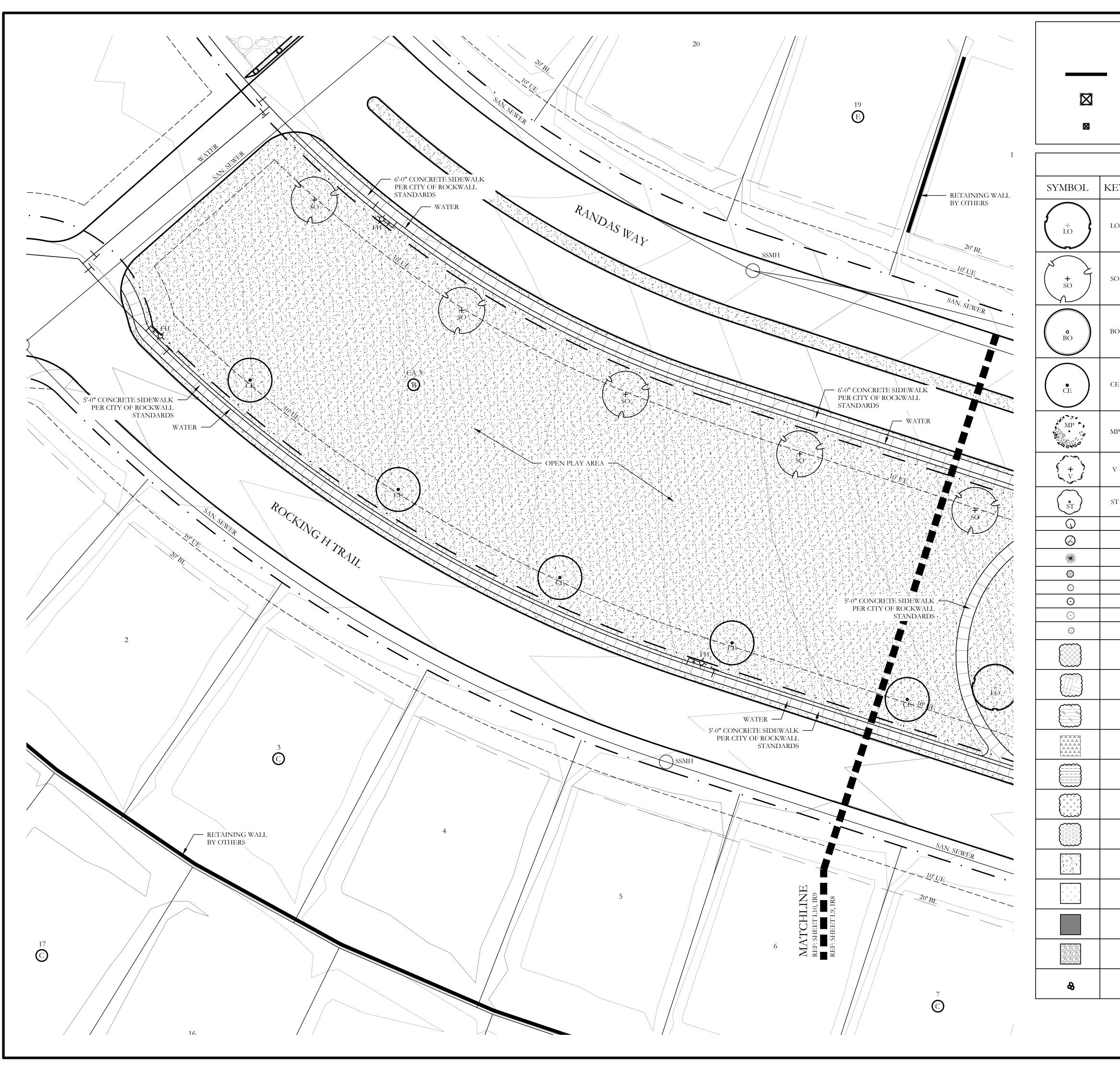


6'-0" HT. ORNAMENTAL METAL FENCE REFER TO DETAILS 1,2&3/L13.

#### PEDESTRIAN REST AREA REFER TO DETAILS 1,2,3&4/L12.

|    | PLANT LEGEND  |  |                |  |
|----|---|--|----------------|--|
| EY | COMMON NAME   | SCIENTIFIC NAME  | SIZE           | SPACING                                  |
| LO | LIVE OAK  | QUERCUS VIRGINIANA   | 4" CALIPER     | AS SHOWN                                 |
| 50 | SHUMARD OAK   | QUERCUS SHUMARDII  | 4" CALIPER     | AS SHOWN                                 |
| 30 | BUR OAK   | QUERCUS MACROCARPA   | 4" CALIPER     | AS SHOWN                                 |
| CE | CEDAR ELM   | ULMUS CRASSIFOLIA  | 4" CALIPER     | AS SHOWN                                 |
| MP | MEXICAN PLUM  | PRUNUS MEXICANA  | 2" CALIPER     | AS SHOWN                                 |
| V  | CHASTE TREE   | VITEX AGNUS  | 2" CALIPER     | AS SHOWN                                 |
| ST | SMOKE TREE  | COTINUS COGGYGRIA  | 2" CALIPER     | AS SHOWN                                 |
|    | TEXAS SAGE  | LEUCOPHYLLUM FRUTESCENS  | 7 GALLON       | 48" O.C.                                 |
|    | EDWARD GOUCHER ABELIA   | ABELIA GRANDIFLORA<br>'EDWARD GOUCHER'                               | 7 GALLON       | 48" O.C.                                 |
|    | 'DALLAS BLUES'  | PANICUM VIRGATUM 'DALLAS   | 3 GAL.         | 36" O.C.                                 |
|    | SWITCHGRASS<br>INDIAN HAWTHORN 'SNOW'                         | BLUES'<br>RHAPHIOLEPIS INDICA 'SNOW'                                 | 3 GALLON       | 36" O.C.                                 |
|    | 'LITTLE SPIRE' RUSSIAN SAGE                                   | PEROVSKIA 'LITTLE SPIRE'   | 3 GAL.         | 36" O.C.                                 |
|    | RED YUCCA   | HESPERALOE PARVIFLORA  | 3 GALLON       | 36" O.C.                                 |
|    | QUEEN VICTORIA AGAVE  | AGAVE VICTORIAER REGINAE   | 3 GAL.         | 36" O.C.                                 |
|    | UPRIGHT ROSEMARY  | ROSMARINUS OFFICINALIS<br>'UPRIGHT'                                  | 3 GALLON       | 36" O.C.                                 |
|    | MAUVE WALLFLOWER  | ERYSIMUM 'BOWLES MAUVE'  | 1 GAL.         | 24" O.C.                                 |
|    | 'AUTUMN JOY' SEDUM  | sedum 'aut'umn joy'  | 1 GAL.         | 24" O.C.                                 |
|    | PURPLELEAF<br>WINTERCREEPER                                   | EUONYMUS FORTUNE<br>'COLORATUS'                                      | 1 GALLON       | 12" O.C.                                 |
|    | TAM JUNIPER   | JUNIPERUS SABINA<br>'TAMARISCIFOLIA'                                 | 7 GALLON       | 36" O.C.                                 |
|    | WEEPING LOVE GRASS  | ERAGROSTIS CURVULA   | 1 GALLON       | 18" O.C.                                 |
|    | DWARF SHASTA DAISY  | LEUCANTHEMUM X SUPERBUM  | 1 GALLON       | 24" O.C.                                 |
|    | LAVENDER COTTON   | SANTOLINA<br>CHAMAECYPARISSUS  | 1 GALLON       | 24" O.C.                                 |
|    | COMMON BERMUDA GRASS<br>HYDROMULCH                            | CYNODON DACTYLON   | SQUARE<br>FEET | HYDROMULCH                               |
|    | ВЕЕ НАРРҮ МІХ   | BY NATIVE AMERICAN SEED CO   | SQUARE<br>FEET | HYDROMULCH                               |
|    | BLACK STAR CRUSHED<br>GRANITE                                 | 3" DEPTH MINIMUM WITH<br>DEWITT 4.1 OZ FILTER FABRIC<br>BENEATH ROCK | SQUARE<br>FEET | $\frac{3}{4}$ -1" DIAMETER               |
|    | TEXAS RIVER ROCK;<br>MIX OF TANS, BROWNS,<br>GRAYS, AND PINKS | 3" DEPTH MINIMUM WITH<br>DEWITT 4.1 OZ FILTER FABRIC<br>BENEATH ROCK | SQUARE<br>FEET | EQUAL<br>Combination<br>OF 1-2" and 2-4" |
|    | OKLAHOMA MOSS ROCK<br>BOULDERS                                | BURY BOTTOM<br>THIRD OF BOULDER IN<br>LANDSCAPE BED.                 | 50 LB - 250 LB | FIELD LOCATE<br>ALL BOULDER<br>MASSES    |
|    |   |  |                |  |

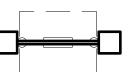




6'-0" HT. ENTRY SIGN WALL REFER TO DETAILS 1,2,&3/L11.

14'-0" HT. STONE ENTRY TOWER REFER TO DETAILS 1&4/L11.

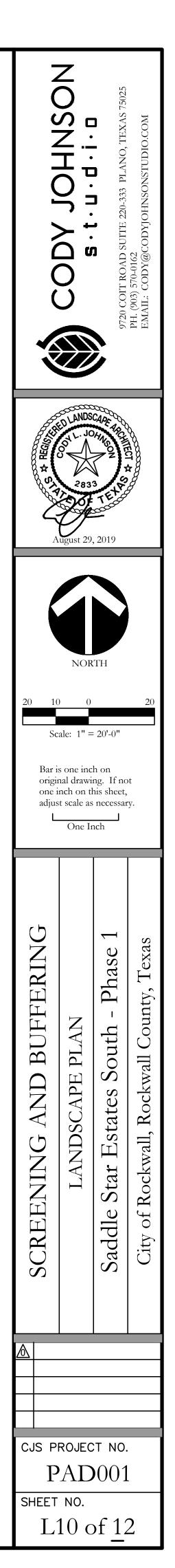
7'-0" HT. STONE COLUMN. REFER TO DETAILS 1,3&4/L13.

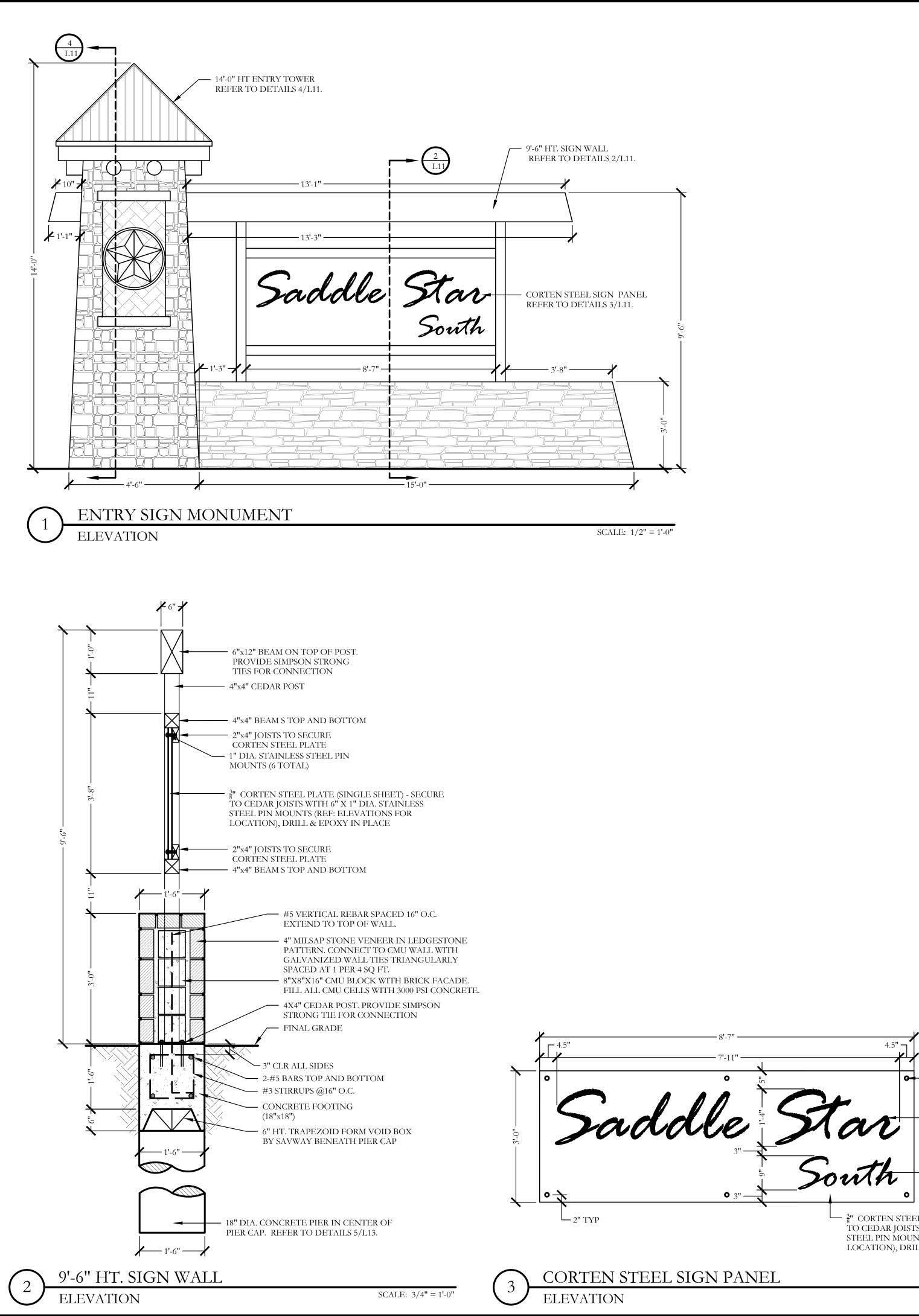


6'-0" HT. ORNAMENTAL METAL FENCE REFER TO DETAILS 1,2&3/L13.

#### PEDESTRIAN REST AREA REFER TO DETAILS 1,2,3&4/L12.

|    | PLAN  | ΓLEGEND  |                |  |
|----|---|--|----------------|--|
| EY | COMMON NAME   | SCIENTIFIC NAME  | SIZE           | SPACING                                  |
| LO | LIVE OAK  | QUERCUS VIRGINIANA   | 4" CALIPER     | AS SHOWN                                 |
| 50 | SHUMARD OAK   | QUERCUS SHUMARDII  | 4" CALIPER     | AS SHOWN                                 |
| BO | BUR OAK   | QUERCUS MACROCARPA   | 4" CALIPER     | AS SHOWN                                 |
| CE | CEDAR ELM   | ULMUS CRASSIFOLIA  | 4" CALIPER     | AS SHOWN                                 |
| MP | MEXICAN PLUM  | PRUNUS MEXICANA  | 2" CALIPER     | AS SHOWN                                 |
| V  | CHASTE TREE   | VITEX AGNUS  | 2" CALIPER     | AS SHOWN                                 |
| ST | SMOKE TREE  | COTINUS COGGYGRIA  | 2" CALIPER     | AS SHOWN                                 |
|    | TEXAS SAGE  | LEUCOPHYLLUM FRUTESCENS  | 7 GALLON       | 48" O.C.                                 |
|    | EDWARD GOUCHER ABELIA   | ABELIA GRANDIFLORA<br>'EDWARD GOUCHER'                               | 7 GALLON       | 48" O.C.                                 |
|    | 'DALLAS BLUES'  | PANICUM VIRGATUM 'DALLAS   | 3 GAL.         | 36" O.C.                                 |
|    | SWITCHGRASS<br>INDIAN HAWTHORN 'SNOW'                         | BLUES'<br>RHAPHIOLEPIS INDICA 'SNOW'                                 | 3 GALLON       | 36" O.C.                                 |
|    | 'LITTLE SPIRE' RUSSIAN SAGE                                   | PEROVSKIA 'LITTLE SPIRE'   | 3 GAL.         | 36" O.C.                                 |
|    | RED YUCCA   | HESPERALOE PARVIFLORA  | 3 GALLON       | 36" O.C.                                 |
|    | QUEEN VICTORIA AGAVE  | AGAVE VICTORIAER REGINAE   | 3 GAL.         | 36" O.C.                                 |
|    | UPRIGHT ROSEMARY  | ROSMARINUS OFFICINALIS<br>'UPRIGHT'                                  | 3 GALLON       | 36" O.C.                                 |
|    | MAUVE WALLFLOWER  | ERYSIMUM 'BOWLES MAUVE'  | 1 GAL.         | 24" O.C.                                 |
|    | 'AUTUMN JOY' SEDUM  | sedum 'Autumn Joy'   | 1 GAL.         | 24" O.C.                                 |
|    | PURPLELEAF<br>WINTERCREEPER                                   | EUONYMUS FORTUNE<br>'COLORATUS'                                      | 1 GALLON       | 12" O.C.                                 |
|    | TAM JUNIPER   | JUNIPERUS SABINA<br>'T'AMARISCIFOLIA'                                | 7 GALLON       | 36" O.C.                                 |
|    | WEEPING LOVE GRASS  | ERAGROSTIS CURVULA   | 1 GALLON       | 18" O.C.                                 |
|    | DWARF SHASTA DAISY  | LEUCANTHEMUM X SUPERBUM  | 1 GALLON       | 24" O.C.                                 |
|    | LAVENDER COTTON   | SANTOLINA<br>CHAMAECYPARISSUS  | 1 GALLON       | 24" O.C.                                 |
|    | COMMON BERMUDA GRASS<br>HYDROMULCH                            | CYNODON DACTYLON   | SQUARE<br>FEET | HYDROMULCH                               |
|    | ВЕЕ НАРРҮ МІХ   | BY NATIVE AMERICAN SEED CO   | SQUARE<br>FEET | HYDROMULCH                               |
|    | BLACK STAR CRUSHED<br>GRANITE                                 | 3" DEPTH MINIMUM WITH<br>DEWITT 4.1 OZ FILTER FABRIC<br>BENEATH ROCK | SQUARE<br>FEET | $\frac{3}{4}$ -1" DIAMETER               |
|    | TEXAS RIVER ROCK;<br>MIX OF TANS, BROWNS,<br>GRAYS, AND PINKS | 3" DEPTH MINIMUM WITH<br>DEWITT 4.1 OZ FILTER FABRIC<br>BENEATH ROCK | SQUARE<br>FEET | EQUAL<br>COMBINATION<br>OF 1-2" AND 2-4" |
|    | OKLAHOMA MOSS ROCK<br>BOULDERS                                | BURY BOTTOM<br>THIRD OF BOULDER IN<br>LANDSCAPE BED.                 | 50 LB - 250 LB | FIELD LOCATE<br>ALL BOULDER<br>MASSES    |
|    |   |  |                |  |





— 1" DIA. STAINLESS STEEL PIN MOUNTS (6 TOTAL)

— 16" HT.RAGE ITALIC STYLE FONT; 3-DIMENSIONAL LETTERING W/1" REVEAL; BRUSHED ALUMINUM FINISH.

- 7" HT. RAGE ITALIC STYLE FONT; 3-DIMENSIONAL LETTERING W/ 1" REVEAL; BRUSHED ALUMINUM FINISH.

 $-\frac{3}{8}$ " CORTEN STEEL PLATE (SINGLE SHEET) - SECURE TO CEDAR JOISTS WITH 6" X 1" DIA. STAINLESS STEEL PIN MOUNTS (REF: ELEVATIONS FOR LOCATION), DRILL & EPOXY IN PLACE

SCALE: 3/4" = 1'-0"

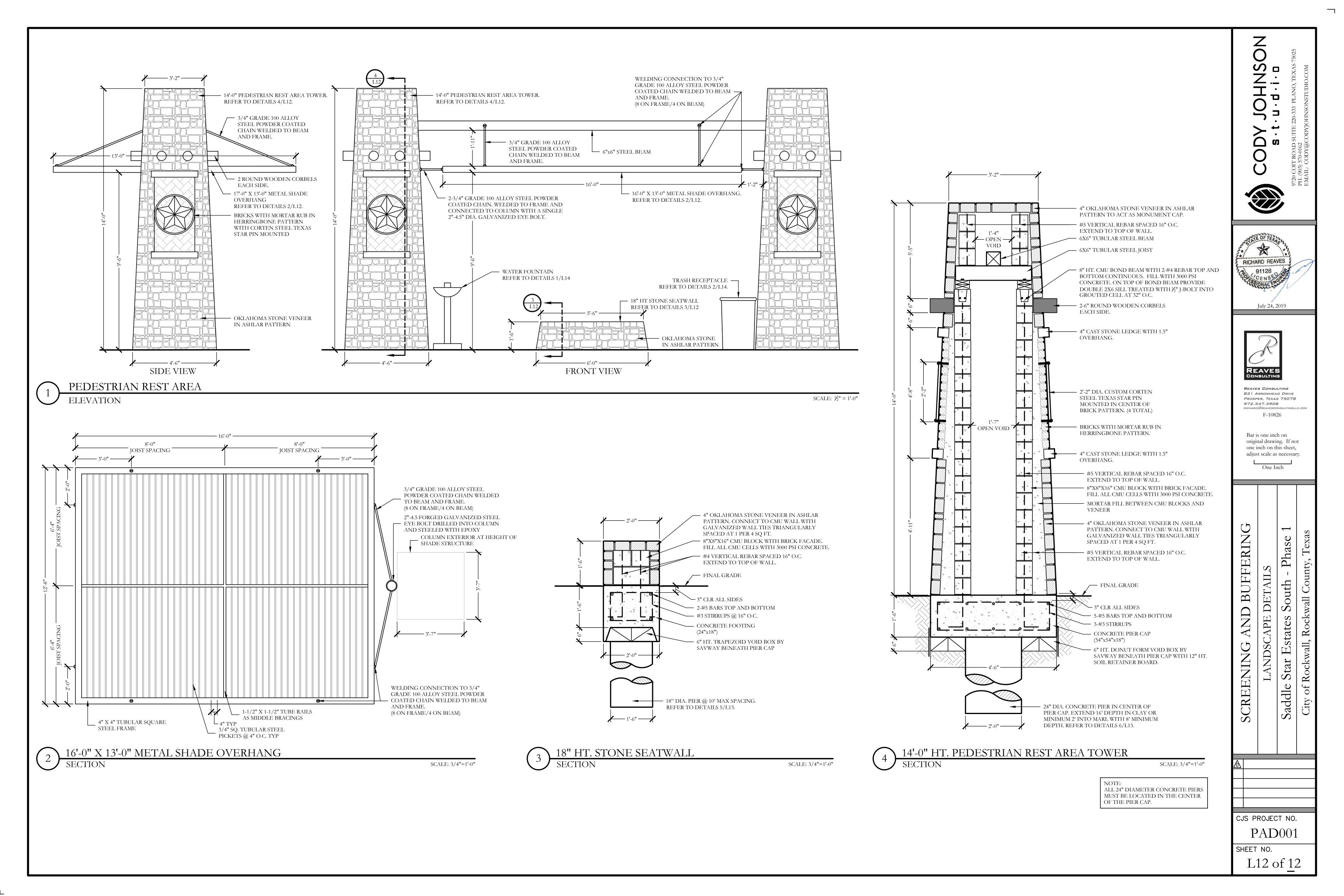
## 14'-0" HT. STONE ENT SECTION

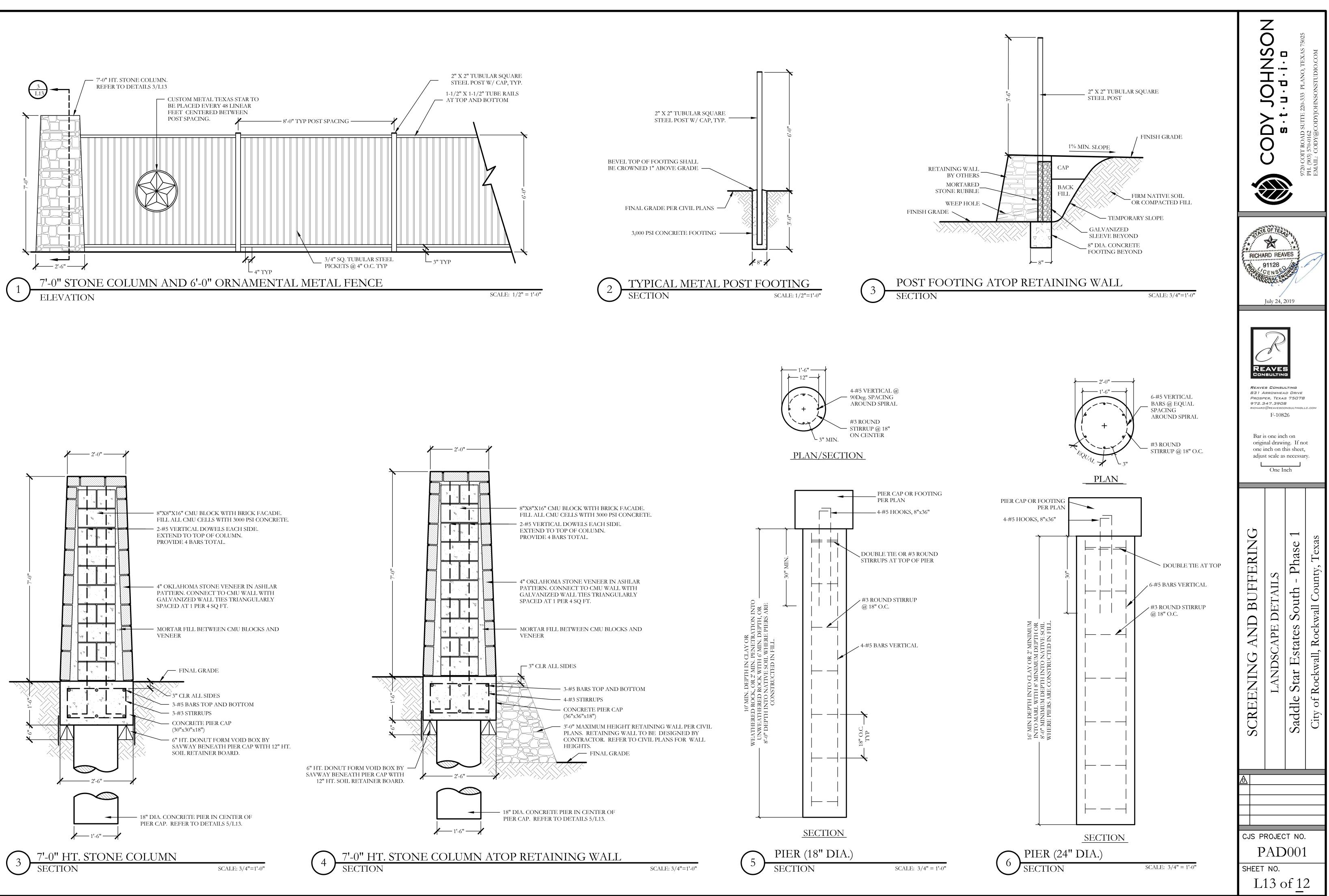
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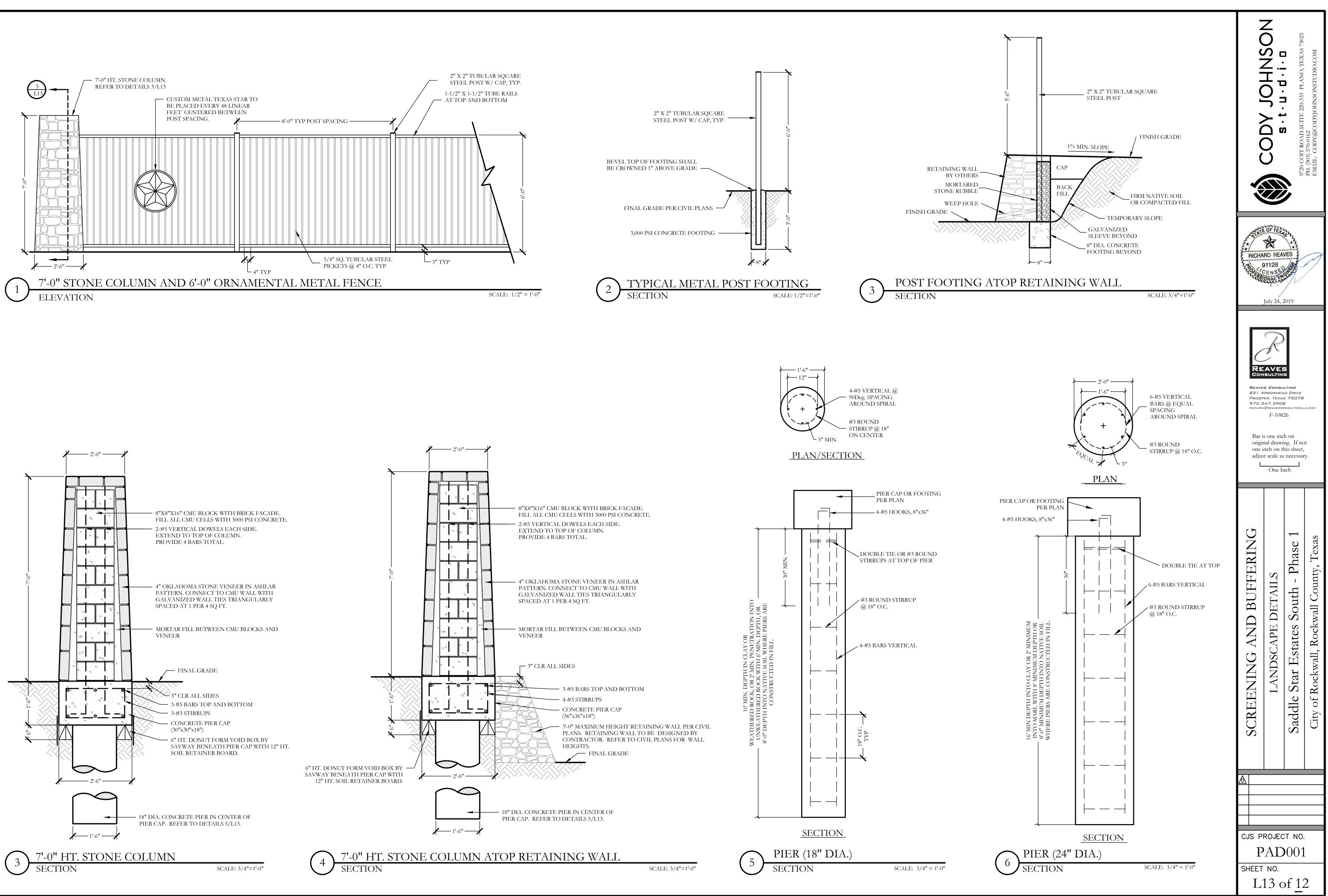
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2'-0"

|             |  |   | <u>.</u>   |  |   |   |
|-------------|--|---|--|--|---|---|
|             |  |   |  |  | 9720 COIT ROAD SUITE 220-333 PLANO, TEXAS 75025 | PH. (903) 570-0162<br>EMAIL: CODY@CODYJOHNSONSTUDIO.COM |
| 5'-3"       | - STANDING SEAM METAL ROOF W<br>TOP LAYER AND #30 FELT. COLO<br>SHALL BE SELECTED BY OWNER.  | R AND SPEC  | S STOCK  | ARD REAL<br>P1128<br>CENSE<br>DIALES   | VES   | 7   |
|             | – (3) 2X6 HEADER<br>– 2X6 STUD @ 12" O.C.  |   | 1  |  |   |   |
|             | <ul> <li>2X8 RAFTER @ 16" O.C.</li> <li>3"x12" CEDAR BOARD WITH 1"x-<br/>TOP BOARD.</li> <li>2-6" ROUND WOODEN CORBELS<br/>EACH SIDE.</li> <li>4" CAST STONE LEDGE WITH 1.5"<br/>OVERHANG.</li> <li>8" HT. CMU BOND BEAM WITH 2-#<br/>BOTTOM CONTINUOUS. FILL WIT<br/>CONCRETE. ON TOP OF BOND BE<br/>DOUBLE 2X6 SILL TREATED WITH<br/>GROUTED CELL AT 32" O.C.</li> <li>2'-2" DIA. CUSTOM CORTEN<br/>STEEL TEXAS STAR PIN<br/>MOUNTED. (4 TOTAL)</li> <li>BRICKS WITH MORTAR RUB IN<br/>HERRINGBONE PATTERN.</li> <li>4" CAST STONE LEDGE WITH 1.5"<br/>OVERHANG.</li> <li>#5 VERTICAL REBAR SPACED 16</li> </ul> | 44 REBAR TOP AND<br>TH 3000 PSI<br>EAM PROVIDE<br>I ½" J-BOLT INTO    | Reave<br>B31 A<br>PROSE<br>972.3<br>RIGHARC<br>Bar i<br>origi<br>one i | A 7.390E<br>PREAVESCE<br>F-1082<br>s one inc<br>nal drawit<br>inch on the<br>st scale as<br>One Ir | Ch on<br>his sheet,                             | Texas   |
|             | <ul> <li>EXTEND TO TOP OF WALL.</li> <li>8"X8"X16" CMU BLOCK WITH BEFILL ALL CMU CELLS WITH 3000</li> <li>MORTAR FILL BETWEEN CMU EVENEER</li> <li>4" OKLAHOMA STONE VENEEF PATTERN. CONNECT TO CMU V GALVANIZED WALL TIES TRIAL SPACED AT 1 PER 4 SQ FT.</li> <li>#5 VERTICAL REBAR SPACED 10 EXTEND TO TOP OF WALL.</li> </ul>   | ) PSI CONCRETE.<br>BLOCKS AND<br>R IN ASHLAR<br>WALL WITH<br>NGULARLY | NING AND BU  | LANDSCAPE DETAILS  | e Star Estates South -                          | of Rockwall, Rockwall County,                           |
|             | 3" CLR ALL SIDES<br>5-#5 BARS TOP AND BOTTON<br>3-#3 STIRRUPS<br>CONCRETE PIER CAP<br>(54"x54"x18")  | м   | SCREEN   |  | Saddl   | City o  |
| 4'-6"       | 6" HT. DONUT FORM VOID B<br>SAVWAY BENEATH PIER CAI<br>SOIL RETAINER BOARD.  |   |  |  |   |   |
|             |  |   |  |  |   |   |
| PIER CAP. H | DNCRETE PIER IN CENTER OF<br>EXTEND 16' DEPTH IN CLAY OR   | NOTE:<br>All 24" DIAMETER CONCRETE PIERS                              |  |  |   |   |
|             | 2' INTO MARL WITH 8' MINIMUM<br>FER TO DETAILS 6/L13.<br>ER  | MUST BE LOCATED IN THE CENTER<br>OF THE PIER CAP.                     | SHEET  | AD<br>NO.  | 0001  |   |
|             |  | SCALE: 3/4"=1'-0"   |  | 11 c   | of $\underline{12}$                             | 2   |









## **CONTEMPORARY DRINKING FOUNTAINS**

#### **GR Series**

MODEL GRM45 BARRIER FREE, BI-LEVEL PEDESTAL MOUNTED DRINKING FOUNTAIN

STANDARD FEATURES

- Resistant to sunlight, heat, moisture and wear
- 18 gage, 304 stainless steel Bowl
- 12 gage, heavy duty stainless steel, corrosion and scratch resistant finish Polished Stainless Steel, Anti-Rotation
- Non-Squirt Bubbler
- 100-Mesh Inlet Strainer Access Door, heavy duty stainless steel, vandal
- resistant

Model GRM45 is a Barrier Free Pedestal Mounted,

Vandal Resistant, Bi-Level Round Drinking Fountain

made from 18 gage, 304 stainless steel Bowls

mounted into a green powder coated 12 gage, heavy duty stainless steel Pedestal. Unit shall be activated by

front mounted self-closing Buttons, by using less than

5 pounds of force, which activates internally mounted

the water flow. Bubblers shall be polished stainless

steel with non-squirt features and operate on water

to ANSI A117.1, Public Law 111-380 (NO-LEAD),

CHSC 116875 and NSF/ANSI 61, Section 9. Fixture

meets ADA, ADA Standing Person, and ADA Child

requirements when mounted appropriately.

<sup>2</sup> This option is not available freeze-resistant.

Options Notes: <sup>1</sup> See separate option sheet.

pressure range of 20 - 105 PSIG. Fountain is certified

Valves with adjustable stream regulators controlling

Vandal resistant stainless steel Bottom Plate

SUGGESTED SPECIFICATIONS



#### GRM44 Satin stainless finish GRM45 Green powder-coated (Shown GRM46 Red powder-coated GRM47 Blue powder-coated Custom color finishes available upon request OPTIONS -CH30 Child height, 30" Bubbler height -FRU2 Freeze resistant, 2 Valves 1 -FRU3 Freeze resistant, 3 Valves 1 I-FRU4 Freeze resistant, 4 Valves 1 I-FS Foot Shower -HB1 Hose Bibb, compression, with hose threaded outlet/VB -HB3 Hose Bibb, loose key, vandal resistant, locked door with hose threaded outlet/VB 1 2 In-ground Anchor Plate 🗋 -IAP -IGM In-ground 14" Mounting Adapter

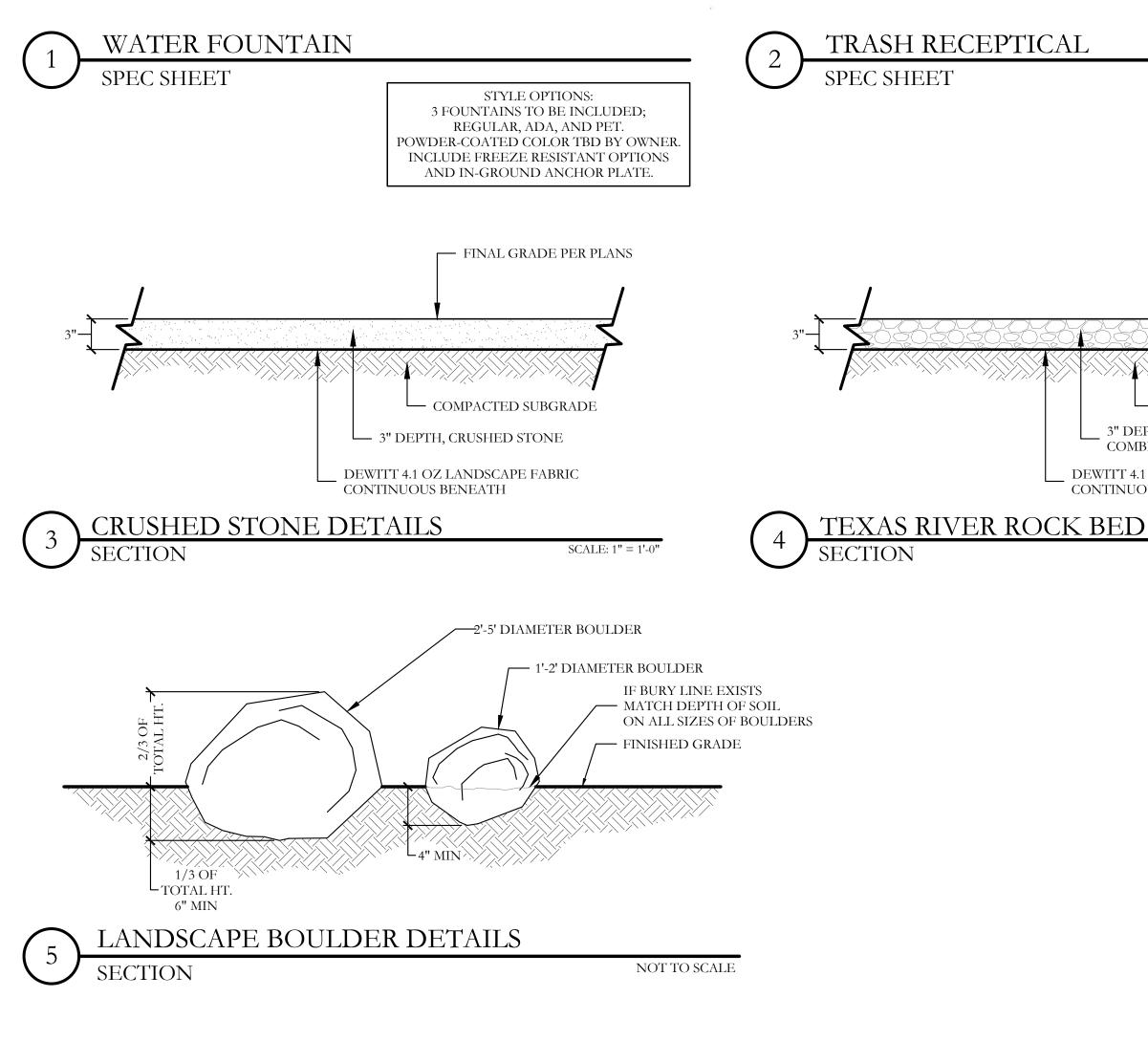
- □ -JF1 Jug Filler, Spigot, self-closing Valve with Plain End <sup>1 2</sup> Jug Filler, Pushbutton, self-closing Valve w/ Plain end 1
- J-JFFR1 Jug Filler, Pushbutton, Freeze Resistant, self-closing Valve 1 -NP2 Non-Pollutable, Freeze Resistant, 2 Valves
- -NP3 Non-Pollutable, Freeze Resistant, 3 Valves Pet Fountain Receptor

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Revised: 06/12/18

WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov

MURDOCK MFG. • 15125 Proctor Avenue • City of Industry, CA 91746 USA Phone 800-453-7465 or 626-333-2543 • Fax 626-855-4860 • www.murdockmfg.com GRM45



customer service: ASSEMBLERS: If you find any parts missing or damaged, or if you're having difficulty assembling your furniture/equipment, call us at: \* Before calling, have your product model number available 1-800-253-8619 (Inside U.S.A.) 260-352-2102 (Outside U.S.A.) Monday thru Friday, 8:00 AM — 4:30 PM Eastern Time (EXCEPT HOLIDAYS) Any correspondence concerning our product should be sent directly to our Customer Service Manager at: URBANSCAPE a division of Wabash Valley Mfg., Inc. 505 E. Main Street P.O.Box 5 Silver Lake, IN 46982 U.S.A. FAX: 260-352-2160 or email: cs@wabashvalley.com maintenance: Regular inspection and maintenance of all parts, and fasteners is necessary. Tighten all bolts and nuts. Inspect Tops, Seats, Legs, Braces and Fasteners periodically for wear or vandalism. Replace broken or worn parts immediately or take equipment out of service until repairs are made. Use genuine Urbanscape replacement parts. KEEP THIS ASSEMBLY/SPECIFICATION SHEET FOR FUTURE REFERENCE. specifications: NOTE: We reserve the right to change specifications without notice. ramework assemblies are finished with powder coating; electrostatically applied and oven cured according to powder manufacturer's

#### RECEPTACLE LEGS:

model no:

PJ7533P

CORINTHIAN DESIGN W/O SCROLLS

Inground and Surface Mount legs are constructed of 12 gage x 2 7/8" diameter structural steel tubing. Mounting plate consists of 10 gage sheet steel and support gussets are 14 gage sheet steel on both style legs. Surface mount plate is 1/4" plate steel.

RECEPTACLES/PLANTER: All Receptacle and Planter bodies are made of aluminum flat bar, rod and tubing rings. Mounting base is constructed of 1/4" aluminum plae.

GENERAL DIMENSIONS Ground space requirements for trash receptacles with flat tops are 32" diameter x 40 1/2" tall. Ground space requirements for trash receptacles with ash bonnets are 32" diameter x 55 1/4" tall. Ground space requirements for trash receptacles with bonnets are 32" diameter x 55 3/4" tall. Ground space requirements for lanters are 32" diameter x 23" tall.

NOTE: Minor scratches to the faux-wood furniture can be touched up using Wood Finish Touch-Up markers or pens. Some recommended touch-up markers are the MINWAX WOOD FINISH STAIN MARKERS. The cherry marker works well with the wheat faux—wood, the Provincial marker closely matches the weathered and italia, and the Dark Walnut marker matches the espresso faux—wood. The touch—up markers can be obtained at a local hardware store or may also be obtained through Urbanscape by contacting customer service. 413900 page



TJ/PJ-Trash/Planter Series urbanscape

TJ3A33I, TJ3A33P, TJ3A33S TJ3B33I, TJ3B33P, TJ3B33S TJ3F33I, TJ3F33P, TJ3F33S



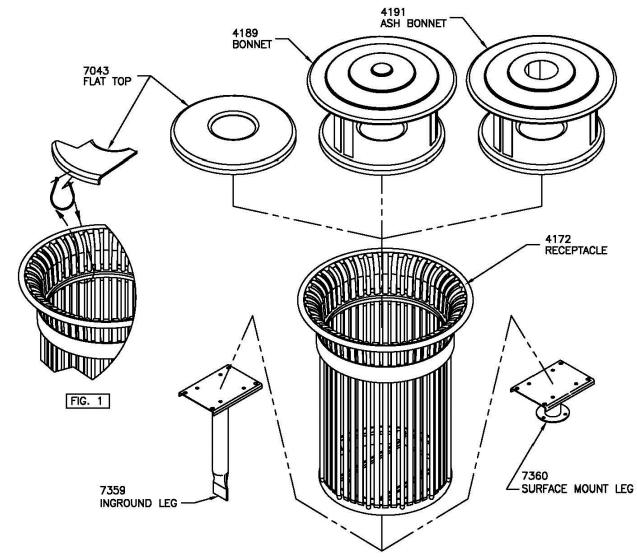
INGROUND, PORT & SURFACE MOUNT RECEPTACLES & PLANTER

IMPORTANT: Assemblers should be reasonably skilled in the assembly of commerci grade/heavy duty fabricated steel equipment. assembly procedures: To ensure proper assembly, it is suggested that you take adequate time to locate and identify each part. To prevent scratching of the finished pieces, we recommend this unit to be assembled on a clean, flat, solid, surface with a drop cloth, allowing plenty of working room. Also please read the instructions and study the sketches very carefully. A little extra time spent before assembly will be well worth it in performing a complete, proper assembly. Please note that all parts have been precut and pre-drilled. During the assembly process leave all bolts and nuts "finger tight", until the entire unit is completely assembled. This allows room for movement to level or adjust all seats, tops, benches, framework and braces if necessary. After final adjustment and leveling permanently tighten all nuts, bolts and fasteners.

FLAT TOP INSTALLATION: Attach flat top to receptacle using one 1/4" X 1 1/4" One Way Machine Screw (17008), two 1/4" flat washer (17103) one 1/4" Nyloc Hex Nut (17016) and one (19067) Wire Rope. Before attaching bolt to Flat Top, thread rope between bars and around top ledge of receptacle. See Fig. 1 below.

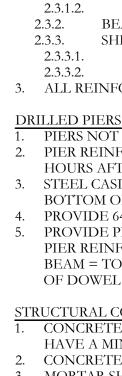
BONNET TOP INSTALLATION: Attach Bonnets to receptacle using one 1/4" X 1 1/4" One Way Machine Screw (17008), two 1/4" flat washer (17103 one 1/4" Nyloc Hex Nut (17016) and one (19067) Wire Rope. Before attaching bolt to Flat Top, thread rope between bars and around top ledge of receptacle. See Fig. 1 below.

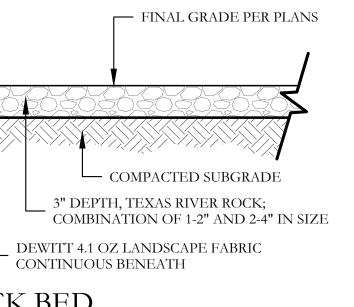
LEG INSTALLATION: Attach surface mount/inground leg to receptacle using one 5/16" X 1 1/2" hex head bolt (17011), two 3/8" flat washer (17028), one 5/16" lock washer (17069) and one 5/16" hex nut (17032) per each bolt hole.



installation: WARNING: The proper installation for Urbanscape products may depend upon many factors unique to the site, location, or use of a particular product. Consult with your contractor or other professional to determine your specific installation

STYLE OPTIONS: POWDER-COATED COLOR TBD BY OWNER TO MATCH COLOR OF FOUNTAIN) INCLUDE FLAT TOP AND IN-GROUND ANCHOR PLATE.





SCALE: 1" = 1'-0'

## WALL NOTES

THESE DETAILS AND SPECIFICATIONS ARE APPLICABLE ONLY FOR THE SITE CONDITIONS AND HEIGHTS SHOWN HEREIN. IF CONDITIONS CHANGE FROM THOSE DESCRIBED HEREIN, THE ENGINEER SHOULD BE NOTIFIED IMMEDIATELY TO DETERMINE THE EFFECT, IF ANY, ON THE STRUCTURAL DESIGN AND LAYOUT. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIMSELF FAMILIAR WITH ALL UNDERGROUND UTILITIES, PIPES, AND

STRUCTURES EITHER SHOWN OR NOT SHOWN ON THE PLANS. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY COST INCURRED DUE TO DAMAGE OR REPLACEMENT OF SAID UTILITIES AND STRUCTURES CAUSED BY HIS FORCES. ALL EARTHWORK SHALL BE PERFORMED AS INDICATED IN THE GEOTECHNICAL INVESTIGATION. PROPER EXECUTION OF EARTHWORK SHALL BE VERIFIED BY AN INDEPENDENT TESTING LAB. PRE-POUR OBSERVATION OF FOOTINGS, BEAMS, AND PIERS IS RECOMMENDED BY OR UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER.

5. ALL CONCRETE USED IN FOOTINGS AND PIERS SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI @ 28 DAYS. CONCRETE USED IN COLUMNS SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI @ 28 DAYS ALL REINFORCING SHALL BE NEW BILLET STEEL, ASTM A615, GRADE 60 EXCEPT STIRRUPS SHALL BE GRADE 40 AND SPIRALS SHALL BE ASTM A82, GRADE 60.

CONCRETE FOR DRILLED PIERS SHALL BE POURED WITHIN 8 HOURS OF DRILLING PIER HOLES. REFER TO DETAILS FOR TYPE AND SIZE OF STONE WALL REINFORCING.

ALL MORTAR TO BE TYPE S; MORTAR COLOR TO BE SELECTED BY OWNER. MASONRY CEMENT WILL NOT BE ALLOWED. 10. ALL MORTAR JOINTS ARE TO BE 3/8" CONCAVE TOOLED JOINTS. 11. STONE AND BRICK VENEER MATERIAL SHALL BE SELECTED BY OWNER

12. THE CONTRACTOR IS RESPONSIBLE FOR ALL REQUIRED PERMITS, APPLICABLE FEES, AND CITY INSPECTIONS.

13. LAYOUT OF THE PROPOSED SCREENING WALL SHALL BE PERFORMED IN THE FIELD BY THE OWNER'S REPRESENTATIVE AND THE CONTRACTOR PRIOR TO BEGINNING CONSTRUCTION 14. THE WALL STONE MATERIAL & PATTERN SHALL BE SELECTED BY OWNER AS NOTED ON LAY STONE COURSES LEVEL

AND PLUMB. DO NOT EXCEED 1/4" VARIATION FROM LEVEL IN 20 FEET MAXIMUM. 15. CLEAN STONEWORK PROMPTLY AFTER COMPLETION WITH FIBER BRUSHES, CLEAN WATER OR APPROVED CLEANING AGENT. DO NOT USE WIRE BRUSHES OR ACID TYPE CLEANING AGENTS. 16. THE CONTRACTOR SHALL PROVIDE A 4'X 4' MOCKUP OF THE STONE AND BRICK SCREEN WALL FOR THE OWNERS

REVIEW PRIOR TO BEGINNING THE STONE WORK. THE APPROVED "MOCKUP" SHALL SERVE AS THE STANDARD FOR THE STONE WORK ON THE PROJECT. 17. THE CONTRACTOR SHALL OBTAIN A PERMIT FOR ALL WALL CONSTRUCTION AND SECURE ALL NECESSARY INSPECTIONS

AND CERTIFICATIONS REQUIRED.

## GENERAL NOTES - HARDSCAPE CONSTRUCTION

#### CAST-IN-PLACE CONCRETE

C33.

2.2.1.

2.2.2.

2.3.1.

2.3.1.1.

ALL CONCRETE SHALL BE 3000 PSI, NORMAL WEIGHT, 28 DAY STRENGTH WITH A 4 TO 6 INCH SLUMP. THE CEMENT SHALL BE TYPE 1 AND SHALL CONFORM TO ASTM C150. AGGREGATES SHALL CONFORM TO ASTM

2. ALL MIXING, TRANSPORTING, PLACING, AND CURING OF CONCRETE SHALL COMPLY WITH ACI 318. CONCRETE SHALL NOT BE PLACED IN RAINING OR FREEZING WEATHER. 4. CHLORIDES SHALL NOT BE USED. 5. MAXIMUM AGGREGATE SIZE = 1".

CONCRETE REINFORCING STEEL

ALL REINFORCEMENT SHALL CONFORM TO ASTM A615 60 GRADE AND DEFORMED PER ASTM A305. PROVIDE 38 BAR DIAMETER LAP SPLICES FOR ALL CONTINUOUS BARS UNLESS NOTED OTHERWISE. PROVIDE THE FOLLOWING MINIMUM COVER FOR CONCRETE CAST IN PLACE REINFORCEMENT: 2.1. CONCRETE CAST AGAINST EARTH AND PERMANENTLY EXPOSED TO EARTH: 3 INCHES

2.2. CONCRETE EXPOSED TO EARTH OF WEATHER:

(A) BARS LARGER THAN NO. 5: 2 INCHES (B) BARS NO. 5 AND SMALLER: 1-1/2 INCHES.

2.3. CONCRETE NOT EXPOSED TO EARTH OR WEATHER: SLABS, WALLS AND JOISTS

(A) BARS, LARGER THAN NO. 11: 1-1/2 INCHES

(B) BARS NO. 11 AND SMALLER: 3/4 INCHES. BEAMS AND COLUMNS: 1-1/2 INCHES

SHELLS AND FOLDED PLATES

(A) BAR LARGER THAN NO. 5: 3/4 INCHES.

(B) BARS NO. 5 AND SMALLER: 1/2 INCHES. 3. ALL REINFORCING STEEL SHALL BE CLEAN AND FREE OF GREASE.

PIERS NOT SPECIFICALLY LOCATED ON THE PLAN SHALL BE CENTERED ON WALL OR BEAM. 2. PIER REINFORCING AND CONCRETE SHALL BE PLACED IMMEDIATELY OR TO WITHIN A MAXIMUM OF 8 HOURS AFTER DRILLING IS COMPLETE.

3. STEEL CASING IS REQUIRED WHEN MORE THAN 2 INCHES OF STANDING WATER IS PRESENT AT THE BOTTOM OF THE SHAFTS PRIOR TO PLACEMENT OF STEEL AND CONCRETE

4. PROVIDE 64 BAR DIAMETER LAP SPLICES IN ALL VERTICAL PIER REINFORCING AS REQUIRED 5. PROVIDE PIER TO GRADE BEAM DOWELS TO MATCH SIZE, QUANTITY, AND LOCATION OF LONGITUDINAL PIER REINFORCING. MIN DOWEL PROJECTION INTO PIER = 30 BAR DIA. MIN DOWEL PROJECTION INTO BEAM = TOP LONGITUDINAL GRADE BEAM REINFORCING. PROVIDE STANDARD HOOK AT TERMINAL END OF DOWEL IN GRADE BEAM.

#### STRUCTURAL CONCRETE MASONRY UNIT

. CONCRETE MASONRY UNITS SHALL BE HOLLOW LOAD-BEARING TYPE N-1 CONFORMING TO ASTM C90 AND HAVE A MINIMUM COMPRESSIVE STRENGTH OF 1900 PSI.

- 2. CONCRETE MASONRY UNITS SHALL HAVE A MINIMUM PRISM STRENGTH OF 1500 PSI AT 28 DAYS.
- MORTAR SHALL BE ASTM C270, TYPE S, WITH A MINIMUM COMPRESSIVE STRENGTH OF 1800 PSI IN ACCORDANCE WITH ASTM C780. MASONRY CEMENT IS PROHIBITED.

4. COARSE GROUT SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2500 PSI AND A MAXIMUM AGGREGATE SIZE OF 2" IN ACCORDANCE WITH ASTM C476.REFER TO DETAILS FOR WALL REINFORCING BAR SIZE AND SPACING.

5. REINFORCE HORIZONTAL JOINTS WITH GALVANIZED LADDER-TYPE STEEL IN ACCORDANCE WITH

ANSI/ASTM A82. SIDE AND CROSS RODS SHALL BE 9 GA MINIMUM. 5. HORIZONTAL REINFORCEMENT SHALL BE SPACED AT 16" MAXIMUM. PROVIDE A 16" LAP AT SPLICES.

JOINT REINFORCING SHALL BE DISCONTINUOUS AT CONTROL AND EXPANSION JOINTS.

8. LAP VERITCAL REINFORCING BARS AT 72 BAR DIAMETERS. 9. LAP HORIZONTAL REINFORCING BARS AT 48 BAR DIAMETERS.

10. PLACE GROUT USING LOW-LIFT METHOD, 6'-8" MAXIMUM LIFTS.

## ORNAMENTAL METAL FENCE NOTES

1. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIMSELF FAMILIAR WITH ALL UNDERGROUND UTILITIES, PIPES, AND STRUCTURES EITHER SHOWN OR NOT SHOWN ON THE PLANS. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY COST INCURRED DUE TO DAMAGE OR REPLACEMENT OF SAID UTILITIES AND STRUCTURES CAUSED BY HIS FORCES. 2. ALL CONCRETE USED IN FOOTING AND PIERS SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI @ 28 DAYS. THE CONTRACTOR IS RESPONSIBLE FOR ALL REQUIRED PERMITS AND CITY INSPECTIONS. 4. ALL ORNAMENTAL METAL TUBES, POSTS, RAILS AND PICKETS SHALL BE FLUSH AND FREE OF ALL DENTS, SPURS, AND SHARP EDGES AND SHALL BE INSTALLED LEVEL, PLUMB, AND SQUARE. 5. PROVIDE CONTINUOUS WELDS ALONG ALL EDGES OF FENCE MEMBERS.

6. GRIND SMOOTH ALL WELDS.

ALL METAL SURFACES SHALL BE PRIMED AND PAINTED WITH TWO COATS OF RUSTPROOF PAINT, COLOR TO BE FLAT BLACK. CONTRACTOR TO SUBMIT SAMPLES AS REQUIRED. 8. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS BEFORE MANUFACTURING GATES AND FENCE. GATE

LOCKING MECHANISM SHALL BE SELECTED BY OWNER. 9. ALL ORNAMENTAL METAL FENCE MEMBERS ARE TO BE TUBULAR MEMBERS IN ACCORDANCE WITH ASTM 513 HOT ROLLED

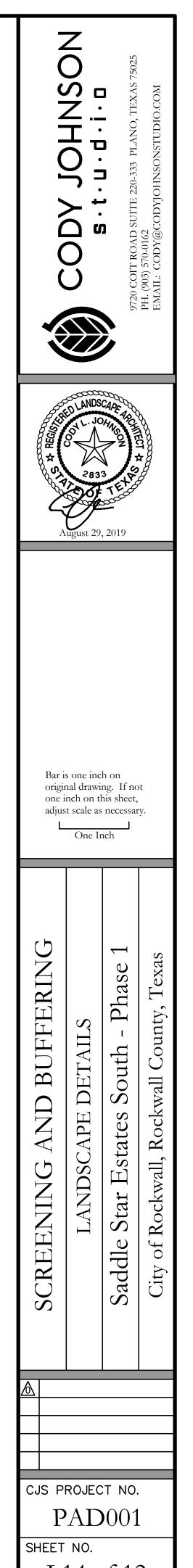
STRUCTURAL STEEL 50,000 PSI TENSILE STRENGTH, 60,000 PSI YIELD STRENGTH. 10. FENCE MEMBER SIZES TO BE AS FOLLOWS: 10.1. PICKETS, 3/4" SQUARE 16 GA.

10.2. RAILS, 1-1/2" X 1/2" SQUARE 16 GA.

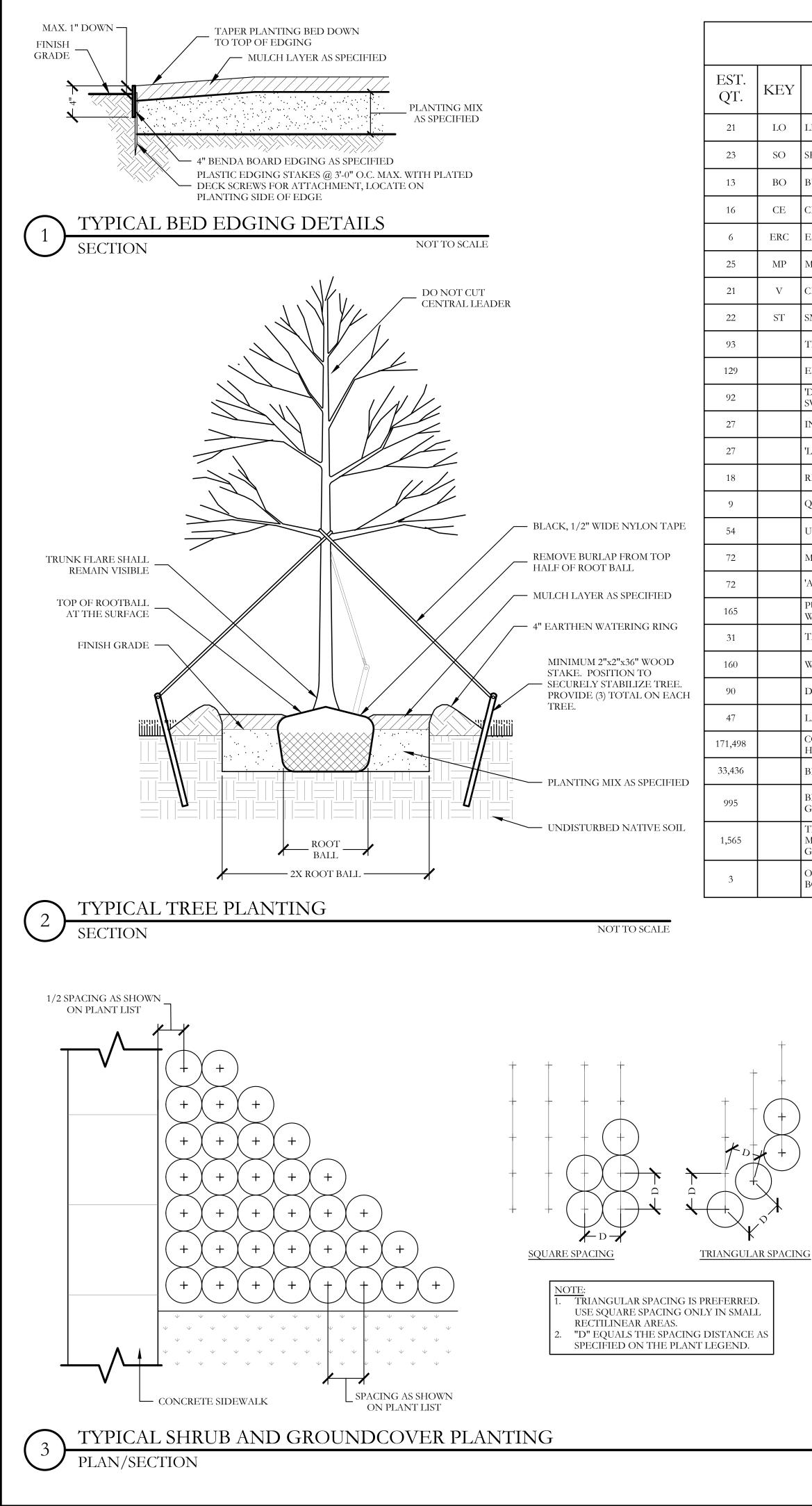
10.3. POSTS, 2" SQUARE 11 GA.

11. CONCRETE FOOTING FOR POSTS SHALL BE A MINIMUM OF 3X POST WIDTH. 12. POSTS SHALL BE PLACED AT A MINIMUM DISTANCE OF 6'-0" O.C AND A MAXIMUM DISTANCE OF 8'-0" O.C.

13. FENCE SHALL MEET LOCAL CODES AND REQUIREMENTS. CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING COMPLIANCE INCLUDING NECESSARY UPSIZING OF POSTS, PICKETS AND HORIZONTAL BARS AND INCREASING THE HEIGHT OF THE FENCE AS IT APPEARS IN THIS DETAILS AT NO ADDITIONAL COST TO THE OWNER FOR MATERIALS AND/OR LABOR.



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| EY  | COMMON NAME   | SCIENTIFIC NAME  | SIZE           | SPACING                                  | REMARKS  |
|-----|---|--|----------------|--|--|
| .0. | LIVE OAK  | QUERCUS VIRGINIANA   | 4" CALIPER     | AS SHOWN                                 | NURSERY GROWN; FULL HEAD; MINIMUM BRANCHING<br>HEIGHT AT 6'-0"; MINIMUM 10'-0" OVERALL HEIGHT. |
| 50  | SHUMARD OAK   | QUERCUS SHUMARDII  | 4" CALIPER     | AS SHOWN                                 | NURSERY GROWN; FULL HEAD; MINIMUM BRANCHING<br>HEIGHT AT 6'-0"; MINIMUM 10'-0" OVERALL HEIGHT. |
| 30  | BUR OAK   | QUERCUS MACROCARPA   | 4" CALIPER     | AS SHOWN                                 | NURSERY GROWN; FULL HEAD; MINIMUM BRANCHING<br>HEIGHT AT 6'-0"; MINIMUM 10'-0" OVERALL HEIGHT. |
| СE  | CEDAR ELM   | ULMUS CRASSIFOLIA  | 4" CALIPER     | AS SHOWN                                 | NURSERY GROWN; FULL HEAD; MINIMUM BRANCHING<br>HEIGHT AT 6'-0"; MINIMUM 10'-0" OVERALL HEIGHT. |
| RC  | EASTERN RED CEDAR   | JUNIPERUS VIRGINIANA   | 3" CALIPER     | AS SHOWN                                 | NURSERY GROWN; FULL HEAD; MINIMUM BRANCHING<br>HEIGHT AT 6'-0"; MINIMUM 10'-0" OVERALL HEIGHT. |
| ЛР  | MEXICAN PLUM  | PRUNUS MEXICANA  | 2" CALIPER     | AS SHOWN                                 | NURSERY GROWN; FULL HEAD; MINIMUM 8'-0"<br>OVERALL HEIGHT.                                     |
| V   | CHASTE TREE   | VITEX AGNUS  | 2" CALIPER     | AS SHOWN                                 | NURSERY GROWN; FULL HEAD; MINIMUM 8'-0"<br>OVERALL HEIGHT.                                     |
| ST  | SMOKE TREE  | COTINUS COGGYGRIA  | 2" CALIPER     | AS SHOWN                                 | NURSERY GROWN; FULL HEAD; MINIMUM 8'-0"<br>OVERALL HEIGHT.                                     |
|     | TEXAS SAGE  | LEUCOPHYLLUM FRUTESCENS  | 7 GALLON       | 48" O.C.                                 | CONTAINER GROWN; FULL PLANT.   |
|     | EDWARD GOUCHER ABELIA   | ABELIA GRANDIFLORA<br>'EDWARD GOUCHER'                               | 7 GALLON       | 48" O.C.                                 | CONTAINER GROWN; FULL PLANT.   |
|     | 'DALLAS BLUES'<br>SWITCHGRASS                                 | PANICUM VIRGATUM 'DALLAS<br>BLUES'                                   | 3 GALLON       | 36" O.C.                                 | CONTAINER GROWN; FULL PLANT.   |
|     | INDIAN HAWTHORN 'SNOW'  | RHAPHIOLEPIS INDICA 'SNOW'   | 3 GALLON       | 36" O.C.                                 | CONTAINER GROWN; FULL PLANT.   |
|     | 'LITTLE SPIRE' RUSSIAN SAGE                                   | PEROVSKIA 'LITTLE SPIRE'   | 3 GALLON       | 36" O.C.                                 | CONTAINER GROWN; FULL PLANT.   |
|     | RED YUCCA   | HESPERALOE PARVIFLORA  | 3 GALLON       | 36" O.C.                                 | CONTAINER GROWN; FULL PLANT.   |
|     | QUEEN VICTORIA AGAVE  | AGAVE VICTORIAER REGINAE   | 3 GALLON       | 36" O.C.                                 | CONTAINER GROWN; FULL PLANT.   |
|     | UPRIGHT ROSEMARY  | ROSMARINUS OFFICINALIS<br>'UPRIGHT'                                  | 3 GALLON       | 36" O.C.                                 | CONTAINER GROWN; FULL PLANT.   |
|     | MAUVE WALLFLOWER  | ERYSIMUM 'BOWLES MAUVE'  | 1 GALLON       | 24" O.C.                                 | CONTAINER GROWN; FULL PLANT.   |
|     | 'AUTUMN JOY' SEDUM  | SEDUM 'AUTUMN JOY'   | 1 GALLON       | 24" O.C.                                 | CONTAINER GROWN; FULL PLANT.   |
|     | PURPLELEAF<br>WINTERCREEPER                                   | EUONYMUS FORTUNE<br>'COLORATUS'                                      | 1 GALLON       | 12" O.C.                                 | CONTAINER GROWN; FULL PLANT.   |
|     | TAM JUNIPER   | JUNIPERUS SABINA<br>'TAMARISCIFOLIA'                                 | 7 GALLON       | 36" O.C.                                 | CONTAINER GROWN; FULL PLANT.   |
|     | WEEPING LOVE GRASS  | ERAGROSTIS CURVULA   | 1 GALLON       | 18" O.C.                                 | CONTAINER GROWN; FULL PLANT.   |
|     | DWARF SHASTA DAISY  | LEUCANTHEMUM X SUPERBUM  | 1 GALLON       | 24" O.C.                                 | CONTAINER GROWN; FULL PLANT.   |
|     | LAVENDER COTTON   | SANTOLINA<br>CHAMAECYPARISSUS  | 1 GALLON       | 24" O.C.                                 | CONTAINER GROWN; FULL PLANT.   |
|     | COMMON BERMUDA GRASS<br>HYDROMULCH                            | CYNODON DACTYLON   | SQUARE<br>FEET | HYDROMULCH                               | MINIMUM 100% COVERAGE ALL AREAS SHOWN  |
|     | BEE HAPPY MIX   | BY NATIVE AMERICAN SEED CO.  | SQUARE<br>FEET | HYDROMULCH                               | MINIMUM 100% COVERAGE ALL AREAS SHOWN  |
|     | BLACK STAR CRUSHED<br>GRANITE                                 | 3" DEPTH MINIMUM WITH<br>DEWITT 4.1 OZ FILTER FABRIC<br>BENEATH ROCK | SQUARE<br>FEET | $\frac{3}{4}$ -1" DIAMETER               | MINIMUM 100% COVERAGE ALL AREAS SHOWN  |
|     | TEXAS RIVER ROCK;<br>MIX OF TANS, BROWNS,<br>GRAYS, AND PINKS | 3" DEPTH MINIMUM WITH<br>DEWITT 4.1 OZ FILTER FABRIC<br>BENEATH ROCK | SQUARE<br>FEET | EQUAL<br>COMBINATION<br>OF 1-2" AND 2-4" |  |
|     | OKLAHOMA MOSS ROCK<br>BOULDERS                                | BURY BOTTOM<br>THIRD OF BOULDER IN<br>LANDSCAPE BED.                 | TONS           | FIELD LOCATE                             | 50 LB - 250 LB PER BOULDER   |

REMOVE ALL LABELS AND TAGS — TOP OF ROOTBALL SHALL BE 1-2" HIGHER THAN — FINISH GRADE WHEN PLANTED MULCH LAYER AS SPECIFIED —

> PLANTING MIX AS SPECIFIED REMOVE CONTAINER AND

PRUNE ANY CIRCLING ROOT

1/2 ROOTBALL DIAMETER -

SPACING AS SHOWN

ON PLANT LIST

TOP OF 1/2" BEI

SPECIFIED SOIL

## GENERAL LANDSCAPE NOTES

#### PECTIONS:

NO EXCAVATION SHALL OCCUR IN CITY R.O.W. WITHOUT A R.O.W. PERMIT--CONTACT THE PUBLIC WORKS DEPARTMENT. THE CONTRACTOR SHALL MARK ALL WATER LINES, SEWER LINES, AND TREE LOCATIONS PRIOR TO

CALLING FOR ROW INSPECTION AND PERMIT. THE LANDSCAPE INSTALLATION SHALL COMPLY WITH APPROVED LANDSCAPE DRAWINGS PRIOR TO FINAL ACCEPTANCE BY THE CITY AND ISSUANCE OF A CERTIFICATE OF OCCUPANCY. WATER METERS, CLEANOUTS AND OTHER APPURTENANCES, SHALL BE ACCESSIBLE, ADJUSTED TO GRADE, CLEARLY MARKED WITH FLAGGING AND COMPLIANT WITH PUBLIC WORKS DEPARTMENT STANDARDS PRIOR TO CALLING FOR FINAL LANDSCAPE AND ROW INSPECTIONS.

#### NDSCAPE STANDARDS:

PLANTINGS AND LANDSCAPE ELEMENTS SHALL COMPLY WITH THE CITY'S ENGINEERING DESIGN STANDARDS, PUBLIC R.O.W. VISIBILITY REQUIREMENTS. UNLESS OTHERWISE SPECIFIED, TREES SHALL BE PLANTED NO LESS THAN 4' FROM CURBS, SIDEWALKS,

UTILITY LINES, SCREENING WALLS AND OTHER STRUCTURES. THE CITY HAS FINAL APPROVAL FOR ALL TREE PLACEMENTS. A MINIMUM THREE FEET (3') RADIUS AROUND A FIRE HYDRANT MUST REMAIN CLEAR OF LANDSCAPE

PURSUANT TO THE FIRE CODE. STREET TREES, WHERE REQUIRED, SHALL BE (10') MINIMUM FROM THE EDGE OF A STORM SEWER CURB INLET BOX AND THE EDGE OF THE ROOT BALL SHALL BE (4') MINIMUM FROM THE WATER METER. THE AMERICAN STANDARD FOR NURSERY STOCK (ANSI Z60.1-2004) SPECIFICATIONS SHALL GOVERN PLANT OUALIFICATIONS, GRADES, AND STANDARDS.

TREE PLANTING SHALL COMPLY WITH DETAILS HEREIN AND THE INTERNATIONAL SOCIETY OF ARBORICULTURE (ISA) STANDARDS. A 2-3" LAYER OF MULCH SHALL BE PROVIDED AROUND THE BASE OF THE PLANTED TREE. THE MULCH

SHALL BE PULLED BACK 4" FROM THE TRUNK OF THE TREE. TREE PITS SHALL BE TESTED FOR WATER PERCOLATION. IF WATER DOES NOT DRAIN OUT OF TREE PIT WITHIN 24-HOURS, THE TREE SHALL BE MOVED OR DRAINAGE SHALL BE PROVIDED.

ALL BEDS TO HAVE 3" OF COMPOSTED SOIL, LIVING EARTH TECHNOLOGY, OR APPROVED EOUAL TILLED AND TURNED TO A DEPTH OF 8" MINIMUM. ALL PLANT BEDS SHALL BE TOP-DRESSED WITH A MINIMUM OF 3 INCHES OF HARDWOOD MULCH.

NATIVE SITE TOPSOIL IS TO BE PROTECTED FROM EROSION OR STOCKPILED. NATIVE SITE TOPSOIL SHALL BE LABORATORY TESTED BY AND ACCREDITED LABORATORY AND AMENDED PER SAID LABORATORY'S RECOMMENDATIONS.

#### IGATION STANDARDS:

ANY CHANGES TO THESE APPROVED IRRIGATION DRAWINGS SHALL BE AUTHORIZED BY THE CITY. CONTACT DEVELOPMENT SERVICES FOR AN IRRIGATION PERMIT PRIOR TO INSTALLING THE IRRIGATION SYSTEM.

IRRIGATION OVER-SPRAY ON STREETS AND WALKS IS PROHIBITED.

MAINLINES, VALVES, OR CONTROL WIRES SHALL NOT BE LOCATED IN THE CITY'S ROW. ET IRRIGATION CONTROLLERS SHALL BE PROGRAMMED AND ADJUSTED TO NOT EXCEED THE

LANDSCAPE WATER ALLOWANCE (LWA) PRIOR TO APPROVAL OF LANDSCAPE INSTALLATION. VALVES SHALL BE LOCATED A MINIMUM OF (3') AWAY FROM STORM SEWERS, AND SANITARY SEWER LINES AND 5 FEET FROM CITY FIRE HYDRANTS AND WATER VALVES. THE BORE DEPTH UNDER STREETS, DRIVE AISLES, AND FIRE LANES SHALL PROVIDE (2') OF CLEARANCE

(MINIMUM). IRRIGATION HEADS THAT RUN PARALLEL AND NEAR PUBLIC WATER AND SANITARY SEWER LINES; SHALL BE FED FROM STUBBED LATERALS OR BULL-BEADS. A MINIMUM FIVE FOOT (5') SEPARATION IS

REQUIRED BETWEEN IRRIGATION MAIN LINES AND LATERALS THAT RUN PARALLEL TO PUBLIC WATER AND SANITARY SEWER LINES. NO VALVES, BACKFLOW PREVENTION ASSEMBLIES, QUICK COUPLERS ETC. SHALL BE LOCATED CLOSER THAN 10' FROM THE CURB AT STREET OR DRIVE INTERSECTION.

#### INTENANCE STANDARDS:

THE OWNER SHALL BE RESPONSIBLE FOR THE ESTABLISHMENT, MAINTENANCE, AND VIGOR OF PLANT MATERIAL IN ACCORDANCE WITH THE DESIGN INTENT AND AS APPROPRIATE FOR THE SEASON OF THE YEAR.

LANDSCAPE AND OPEN AREAS SHALL BE FREE OF TRASH, LITTER AND WEEDS. NO PLANT MATERIAL SHALL BE ALLOWED TO ENCROACH ON R.O.W., SIDEWALKS OR EASEMENTS TO THE EXTENT THAT VISION OR ROUTE OF TRAVEL FOR VEHICULAR, PEDESTRIAN, OR BICYCLE TRAFFIC IS IMPEDED.

TREE MAINTENANCE SHALL BE IN ACCORDANCE WITH THE STANDARDS OF THE INTERNATIONAL SOCIETY OF ARBORICULTURE. TREE STAKING MATERIALS, IF USED, SHALL BE REMOVED AFTER (1) GROWING SEASON, NO MORE THAN (1) YEAR AFTER INSTALLATION (STEEL TREE STAKES, WIRES, AND HOSES ARE PROHIBITED).

#### EE PROTECTION NOTES:

CONTACT DEVELOPMENT SERVICES FOR A TREE REMOVAL PERMIT PRIOR TO REMOVAL OR TRANSPLANTING OF ANY TREES. ALL TREES WHICH ARE TO REMAIN ON SITE SHALL BE PROTECTED WITH A (4') TALL BRIGHTLY

COLORED PLASTIC FENCE, OR SILT FENCE, PLACED AT THE DRIP LINE OF THE TREES. PRIOR TO THE PRE-CONSTRUCTION MEETING OR OBTAINING A GRADING PERMIT, ALL TREE MARKINGS AND PROTECTIVE FENCING SHALL BE INSTALLED BY THE OWNER AND BE INSPECTED BY DEVELOPMENT SERVICES. 4. NO EQUIPMENT SHALL BE CLEANED, OR HARMFUL LIQUIDS DEPOSITED WITHIN THE LIMITS OF THE

ROOT ZONE OF TREES WHICH REMAIN ON SITE. 5. NO SIGNS, WIRES, OR OTHER ATTACHMENTS SHALL BE ATTACHED TO ANY TREE TO REMAIN ON SITE 6. VEHICULAR AND CONSTRUCTION EQUIPMENT SHALL NOT PARK OR DRIVE WITHIN THE LIMITS OF THE DRIP LINE.

7. GRADE CHANGES IN EXCESS OF 3 INCHES (CUT OR FILL) SHALL NOT BE ALLOWED WITHIN A ROOT ZONE, UNLESS ADEQUATE TREE PRESERVATION METHODS ARE APPROVED BY THE CITY. 8. NO TRENCHING SHALL BE ALLOWED WITHIN THE DRIP-LINE OF A TREE, UNLESS APPROVED BY THE CITY.

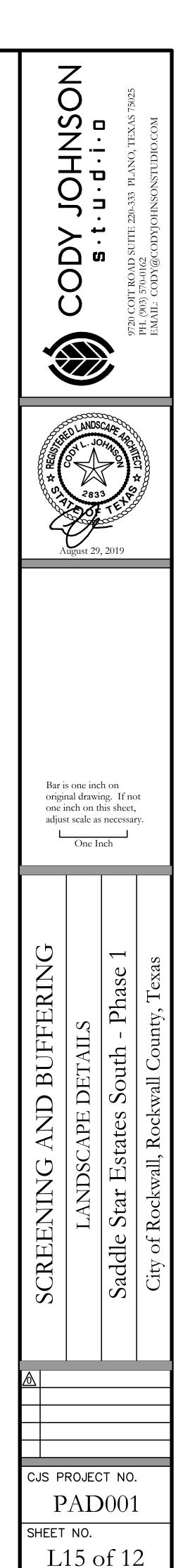
9. ALL REMOVED TREES SHALL BE CHIPPED AND USED FOR MULCH ON SITE OR HAULED OFF-SITE. 10. ALL TREE MAINTENANCE TECHNIQUES SHALL BE IN CONFORMANCE WITH INDUSTRY IDENTIFIED STANDARDS. IMPROPER OR MALICIOUS PRUNING TECHNIQUES ARE STRICTLY PROHIBITED.

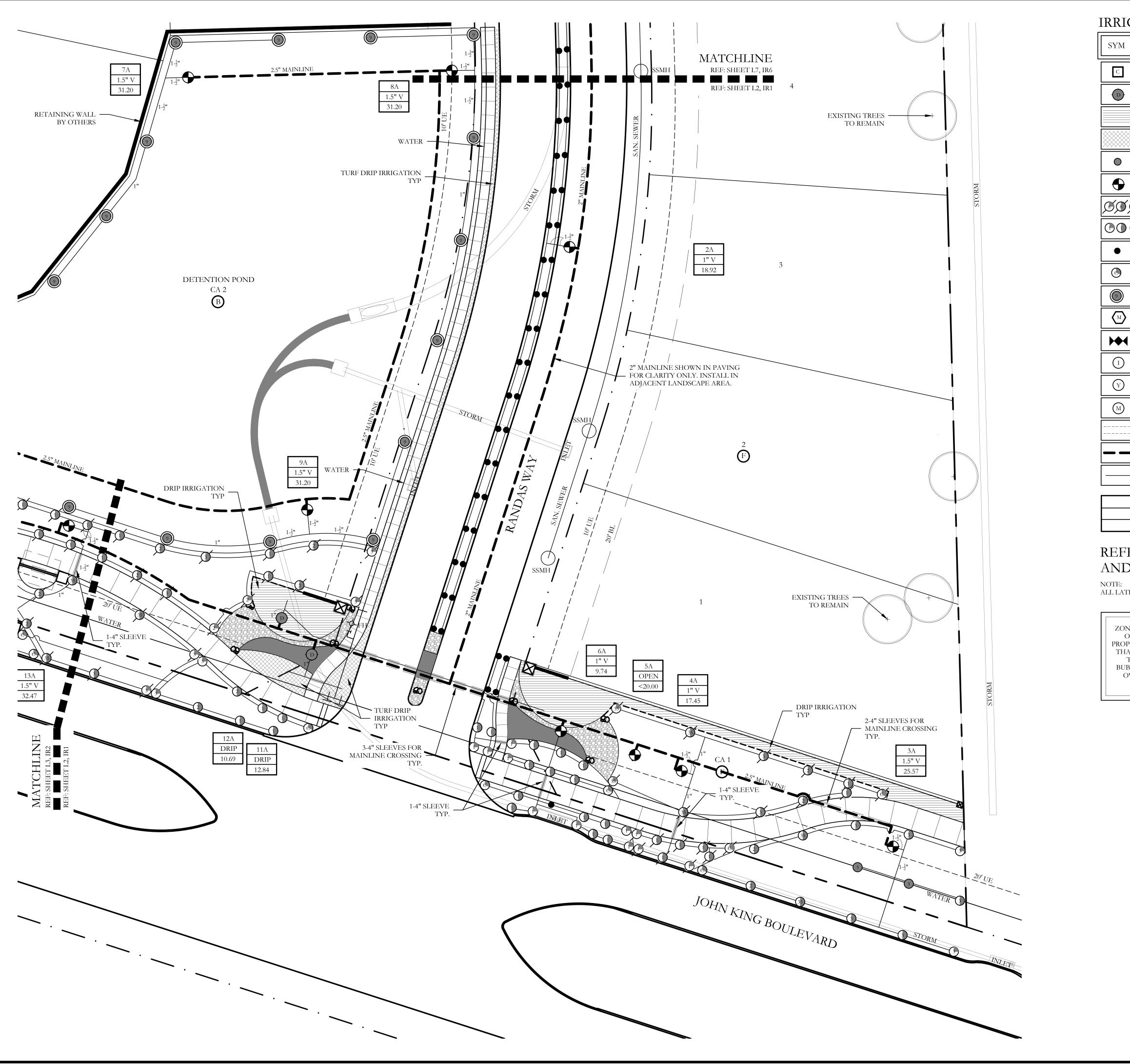
| F MULCH SHALL BE |  |
|------------------|--|
| LOW SIDEWALK     |  |

- CONCRETE SIDEWALK

PLANTING MIX AS UNDISTURBED NATIVE

NOT TO SCALE





| DESCRIPTION                          | MANUFACTURER | MODEL                                     | SIZE / NOZZLE                                     |
|--------------------------------------|--------------|---|---|
| AUTOMATIC CONTROLLER                 | HUNTER       | REFER TO<br>PLANS                         | N/A   |
| DRIP IRRIGATION<br>CONTROL VALVE     | HUNTER       | ICZ-101                                   | 1"  |
| DRIP IRRIGATION<br>(LANDSCAPE BEDS)  | HUNTER       | PLD-06-18                                 | N/A   |
| DRIP IRRIGATION<br>(TURF BEDS)       | HUNTER       | PLD-06-12                                 | N/A   |
| DRIP IRRIGATION                      | HUNTER       | AFB-ADJ BUBBLER<br>(0.5 GPM EACH BUBBLER) | 1/2"  |
| REMOTE CONTROL VALVE                 | HUNTER       | ICV-101G<br>ICV-151G                      | Refer to Plan<br>for Size                         |
| SHRUB MP ROTATOR                     | HUNTER       | 12" RAISED MP<br>ROTATOR                  | MP1000, MP2000,<br>MP3000, MP3500                 |
| LAWN MP ROTATOR                      | HUNTER       | MP ROTATOR                                | MP1000, MP2000,<br>MP3000, MP3500                 |
| 4" POP UP<br>MP ROTATOR CORNER STRIP | HUNTER       | STRIP SERIES                              | MPLC515 IVORY<br>MPRCS515 COPPER<br>MPSS530 BROWN |
| 4" POP UP<br>MP ROTATOR CORNER       | HUNTER       | CORNER SERIES                             | MP CORNER SERIES<br>ADJUSTABLE ARC<br>8'-15'      |
| ROTOR HEAD                           | HUNTER       | PGP SERIES                                | #9 NOZZLES  |
| WATER METER                          |              | PER CITY                                  | Refer to Plan<br>for Size                         |
| DOUBLE CHECK VALVE                   | Febco        | 850-BV Series                             | Refer to Plan<br>for Size                         |
| ISOLATION VALVE                      | Nibco        | *T-113                                    | Line Size   |
| WYE STRAINER                         | Febco        | *850                                      | Refer to Plan<br>for Size                         |
| MASTER VALVE                         | Hunter       | ICV-101G<br>ICV-151G                      | Refer to Plan<br>for Size                         |
| IRRIGATION SLEEVE                    |              | SCH. 40 w/ 12 GA.<br>PULL WIRE IN SLEEVE  | Refer to Plan<br>for Size                         |
| IRRIGATION MAIN LINE                 |              | SCH. 40                                   | Refer to Plan<br>for Size                         |
| IRRIGATION LATERAL LINE              |              | CLASS 200                                 | Refer to Plan<br>for Size                         |

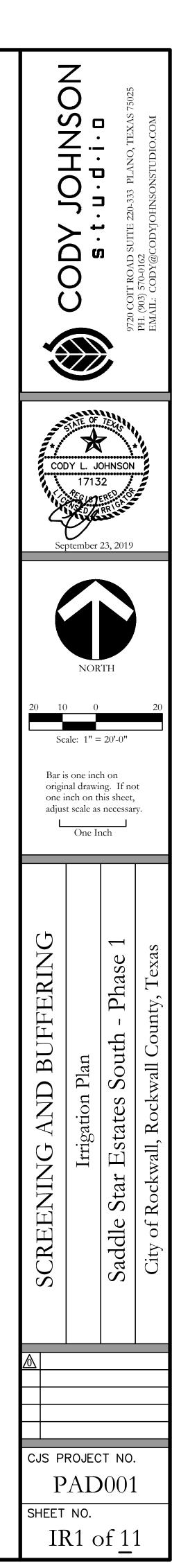
✓ VALVE SIZE IN INCHES

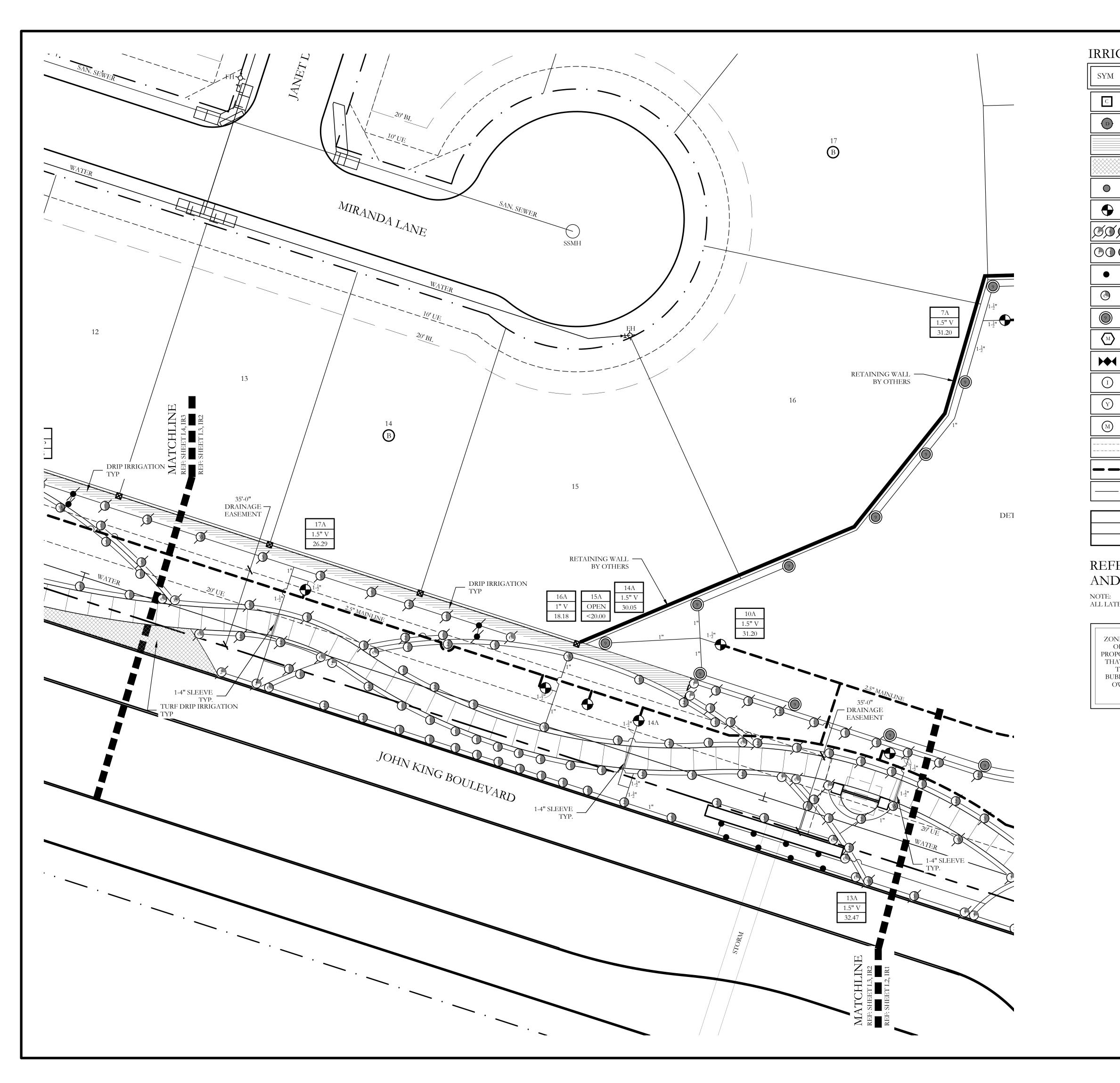
GALLONS PER MINUTE, PER VALVE

## REFER TO SHEET IR10 FOR FULL IRRIGATION LEGEND AND SCHEDULE

NOTE: ALL LATERAL LINES SHALL BE 3/4" CLASS 200 PVC UNLESS OTHERWISE NOTED ON PLANS.

ZONE VALVES LABELED AS 'OPEN" ARE INTENDED FOR THE USE OF SUPPLYING HUNTER AFB-ADJ TREE BUBBLERS ON EACH PROPOSED TREE. IRRIGATION CONTRACTOR SHALL FIELD VERIFY THAT THESE ZONES DO NOT EXCEED 20 GALLONS PER MINUTE. THE IRRIGATION CONTRACTOR SHALL STAKE EACH TREE BUBBLER HEAD LOCATION AND RECEIVE APPROVAL FROM THE OWNER AND/OR THE OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.





| DESCRIPTION                          | MANUFACTURER | MODEL                                     | SIZE / NOZZLE                                     |
|--------------------------------------|--------------|---|---|
| AUTOMATIC CONTROLLER                 | HUNTER       | REFER TO<br>PLANS                         | N/A   |
| DRIP IRRIGATION<br>CONTROL VALVE     | HUNTER       | ICZ-101                                   | 1"  |
| DRIP IRRIGATION<br>(LANDSCAPE BEDS)  | HUNTER       | PLD-06-18                                 | N/A   |
| DRIP IRRIGATION<br>(TURF BEDS)       | HUNTER       | PLD-06-12                                 | N/A   |
| DRIP IRRIGATION                      | HUNTER       | AFB-ADJ BUBBLER<br>(0.5 GPM EACH BUBBLER) | 1/2"  |
| REMOTE CONTROL VALVE                 | HUNTER       | ICV-101G<br>ICV-151G                      | Refer to Plan<br>for Size                         |
| SHRUB MP ROTATOR                     | HUNTER       | 12" RAISED MP<br>ROTATOR                  | MP1000, MP2000,<br>MP3000, MP3500                 |
| LAWN MP ROTATOR                      | HUNTER       | MP ROTATOR                                | MP1000, MP2000,<br>MP3000, MP3500                 |
| 4" POP UP<br>MP ROTATOR CORNER STRIP | HUNTER       | STRIP SERIES                              | MPLC515 IVORY<br>MPRCS515 COPPER<br>MPSS530 BROWN |
| 4" POP UP<br>MP ROTATOR CORNER       | HUNTER       | CORNER SERIES                             | MP CORNER SERIES<br>ADJUSTABLE ARC<br>8'-15'      |
| ROTOR HEAD                           | HUNTER       | PGP SERIES                                | #9 NOZZLES  |
| WATER METER                          |              | PER CITY                                  | Refer to Plan<br>for Size                         |
| DOUBLE CHECK VALVE                   | Febco        | 850-BV Series                             | Refer to Plan<br>for Size                         |
| ISOLATION VALVE                      | Nibco        | *T-113                                    | Line Size   |
| WYE STRAINER                         | Febco        | *850                                      | Refer to Plan<br>for Size                         |
| MASTER VALVE                         | Hunter       | ICV-101G<br>ICV-151G                      | Refer to Plan<br>for Size                         |
| IRRIGATION SLEEVE                    |              | SCH. 40 w/ 12 GA.<br>PULL WIRE IN SLEEVE  | Refer to Plan<br>for Size                         |
| IRRIGATION MAIN LINE                 |              | SCH. 40                                   | Refer to Plan<br>for Size                         |
| IRRIGATION LATERAL LINE              |              | CLASS 200                                 | Refer to Plan<br>for Size                         |

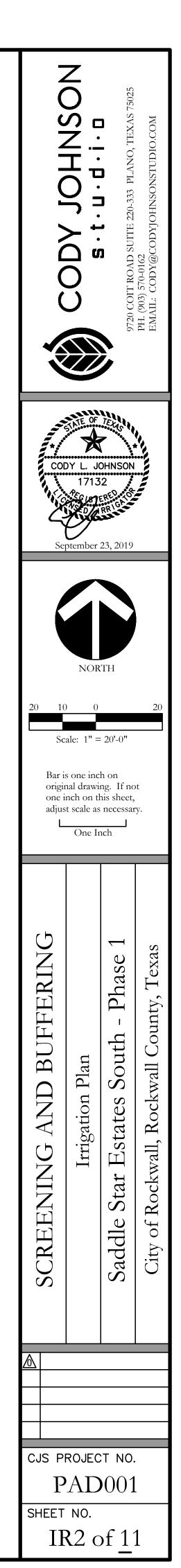
✓ VALVE SIZE IN INCHES

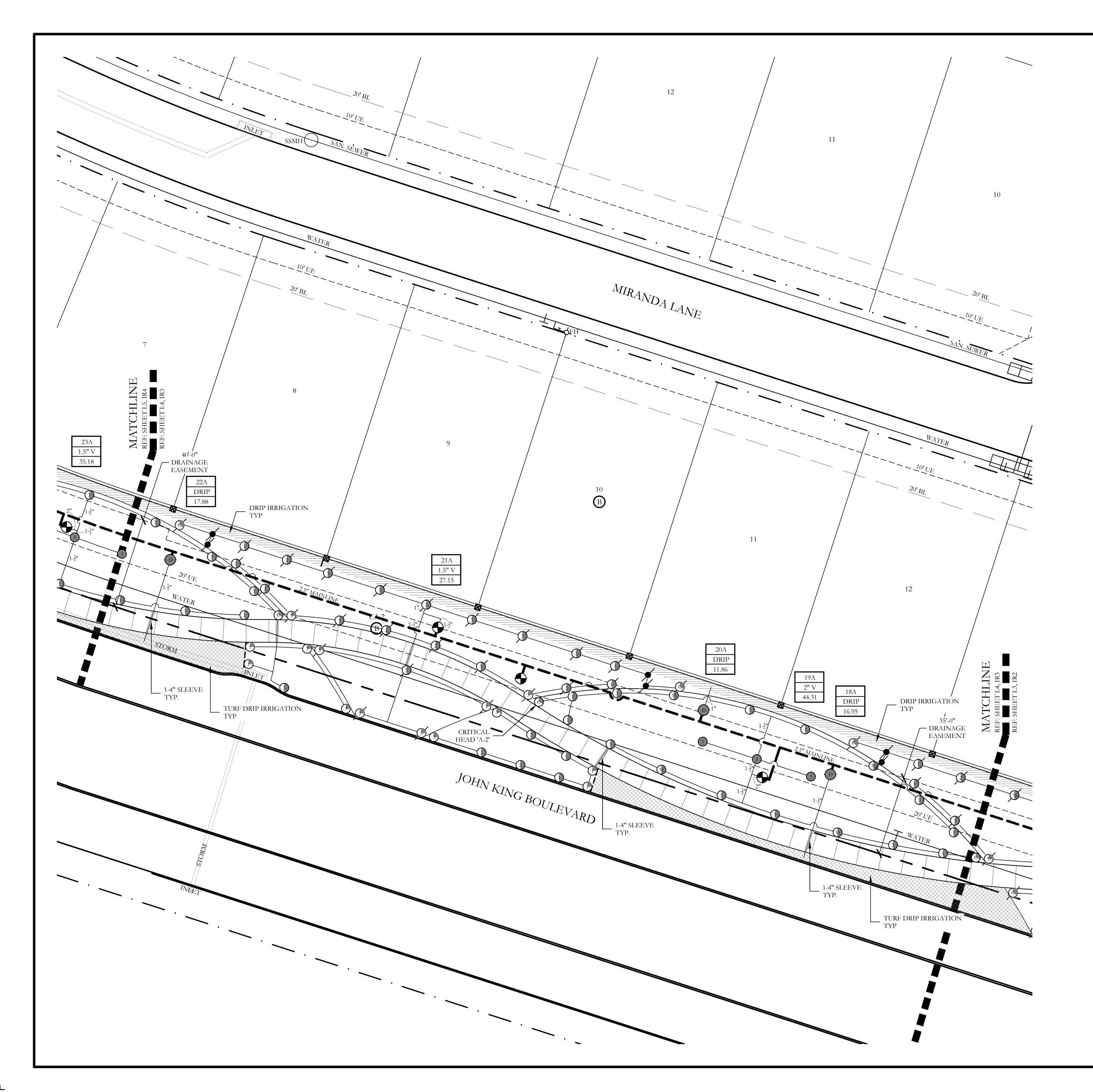
GALLONS PER MINUTE, PER VALVE

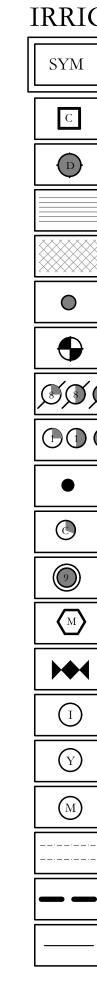
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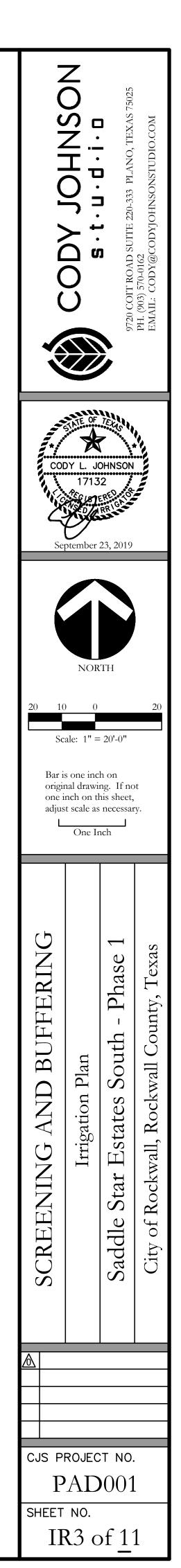
| DESCRIPTION                          | MANUFACTURER | MODEL                                     | SIZE / NOZZLE                                     |
|--------------------------------------|--------------|---|---|
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| DRIP IRRIGATION<br>CONTROL VALVE     | HUNTER       | ICZ-101                                   | 1"  |
| DRIP IRRIGATION<br>(LANDSCAPE BEDS)  | HUNTER       | PLD-06-18                                 | N/A   |
| DRIP IRRIGATION<br>(TURF BEDS)       | HUNTER       | PLD-06-12                                 | N/A   |
| DRIP IRRIGATION                      | HUNTER       | AFB-ADJ BUBBLER<br>(0.5 GPM EACH BUBBLER) | 1/2"  |
| REMOTE CONTROL VALVE                 | HUNTER       | ICV-101G<br>ICV-151G                      | Refer to Plan<br>for Size                         |
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| WATER METER                          |              | PER CITY                                  | Refer to Plan<br>for Size                         |
| DOUBLE CHECK VALVE                   | Febco        | 850-BV Series                             | Refer to Plan<br>for Size                         |
| ISOLATION VALVE                      | Nibco        | *T-113                                    | Line Size   |
| WYE STRAINER                         | Febco        | *850                                      | Refer to Plan<br>for Size                         |
| MASTER VALVE                         | Hunter       | ICV-101G<br>ICV-151G                      | Refer to Plan<br>for Size                         |
| IRRIGATION SLEEVE                    |              | SCH. 40 w/ 12 GA.<br>PULL WIRE IN SLEEVE  | Refer to Plan<br>for Size                         |
| IRRIGATION MAIN LINE                 |              | SCH. 40                                   | Refer to Plan<br>for Size                         |
| IRRIGATION LATERAL LINE              |              | CLASS 200                                 | Refer to Plan<br>for Size                         |

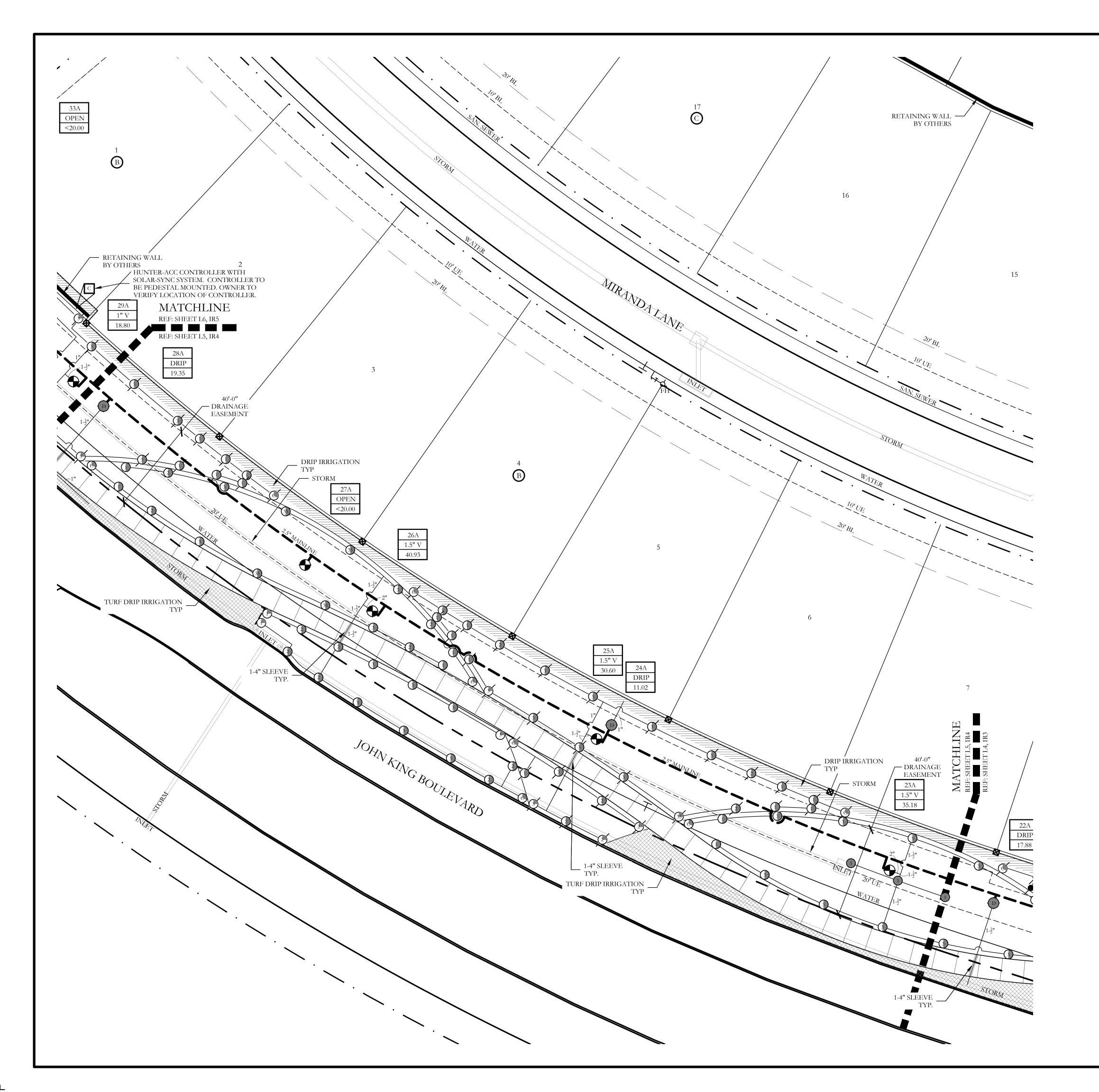
PROGRAM AND STATION NUMBER FOR AUTOMATIC CONTROLLER

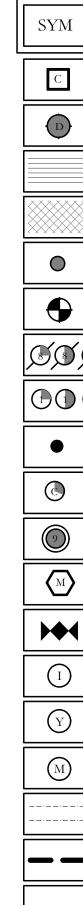
GALLONS PER MINUTE, PER VALVE

## REFER TO SHEET IR10 FOR FULL IRRIGATION LEGEND AND SCHEDULE

NOTE: ALL LATERAL LINES SHALL BE 3/4" CLASS 200 PVC UNLESS OTHERWISE NOTED ON PLANS.







ZONE VALVES LABELED AS 'OPEN" ARE INTENDED FOR THE USE OF SUPPLYING HUNTER AFB-ADJ TREE BUBBLERS ON EACH PROPOSED TREE. IRRIGATION CONTRACTOR SHALL FIELD VERIFY THAT THESE ZONES DO NOT EXCEED 20 GALLONS PER MINUTE. THE IRRIGATION CONTRACTOR SHALL STAKE EACH TREE BUBBLER HEAD LOCATION AND RECEIVE APPROVAL FROM THE OWNER AND/OR THE OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.

| SYM   | DESCRIPTION                          | MANUFACTURER | MODEL                                     | SIZE / NOZZLE                                     |
|-------|--------------------------------------|--------------|---|---|
| С     | AUTOMATIC CONTROLLER                 | HUNTER       | REFER TO<br>PLANS                         | N/A   |
| D     | DRIP IRRIGATION<br>CONTROL VALVE     | HUNTER       | ICZ-101                                   | 1"  |
|       | DRIP IRRIGATION<br>(LANDSCAPE BEDS)  | HUNTER       | PLD-06-18                                 | N/A   |
|       | DRIP IRRIGATION<br>(TURF BEDS)       | HUNTER       | PLD-06-12                                 | N/A   |
| 0     | DRIP IRRIGATION                      | HUNTER       | AFB-ADJ BUBBLER<br>(0.5 GPM EACH BUBBLER) | 1/2"  |
| •     | REMOTE CONTROL VALVE                 | HUNTER       | ICV-101G<br>ICV-151G                      | Refer to Plan<br>for Size                         |
| Y O C | SHRUB MP ROTATOR                     | HUNTER       | 12" RAISED MP<br>ROTATOR                  | MP1000, MP2000,<br>MP3000, MP3500                 |
|       | LAWN MP ROTATOR                      | HUNTER       | MP ROTATOR                                | MP1000, MP2000,<br>MP3000, MP3500                 |
| •     | 4" POP UP<br>MP ROTATOR CORNER STRIP | HUNTER       | STRIP SERIES                              | MPLC515 IVORY<br>MPRCS515 COPPER<br>MPSS530 BROWN |
| ٢     | 4" POP UP<br>MP ROTATOR CORNER       | HUNTER       | CORNER SERIES                             | MP CORNER SERIES<br>ADJUSTABLE ARC<br>8'-15'      |
| ٢     | ROTOR HEAD                           | HUNTER       | PGP SERIES                                | #9 NOZZLES  |
| M     | WATER METER                          |              | PER CITY                                  | Refer to Plan<br>for Size                         |
|       | DOUBLE CHECK VALVE                   | Febco        | 850-BV Series                             | Refer to Plan<br>for Size                         |
| I     | ISOLATION VALVE                      | Nibco        | *T-113                                    | Line Size   |
| Y     | WYE STRAINER                         | Febco        | *850                                      | Refer to Plan<br>for Size                         |
| M     | MASTER VALVE                         | Hunter       | ICV-101G<br>ICV-151G                      | Refer to Plan<br>for Size                         |
|       | IRRIGATION SLEEVE                    |              | SCH. 40 w/ 12 GA.<br>PULL WIRE IN SLEEVE  | Refer to Plan<br>for Size                         |
|       | IRRIGATION MAIN LINE                 |              | SCH. 40                                   | Refer to Plan<br>for Size                         |
|       | IRRIGATION LATERAL LINE              |              | CLASS 200                                 | Refer to Plan<br>for Size                         |

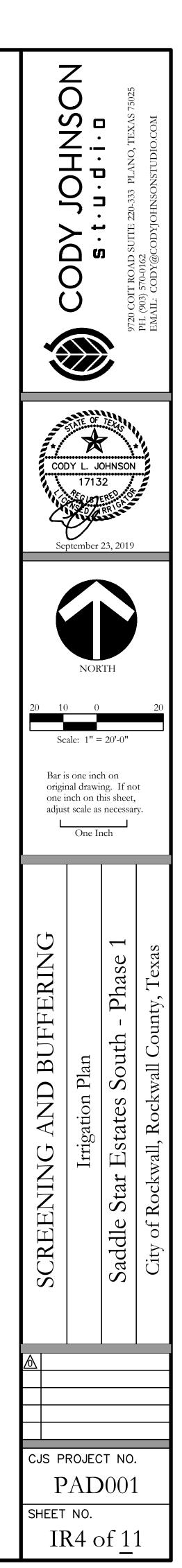
PROGRAM AND STATION NUMBER FOR AUTOMATIC CONTROLLER

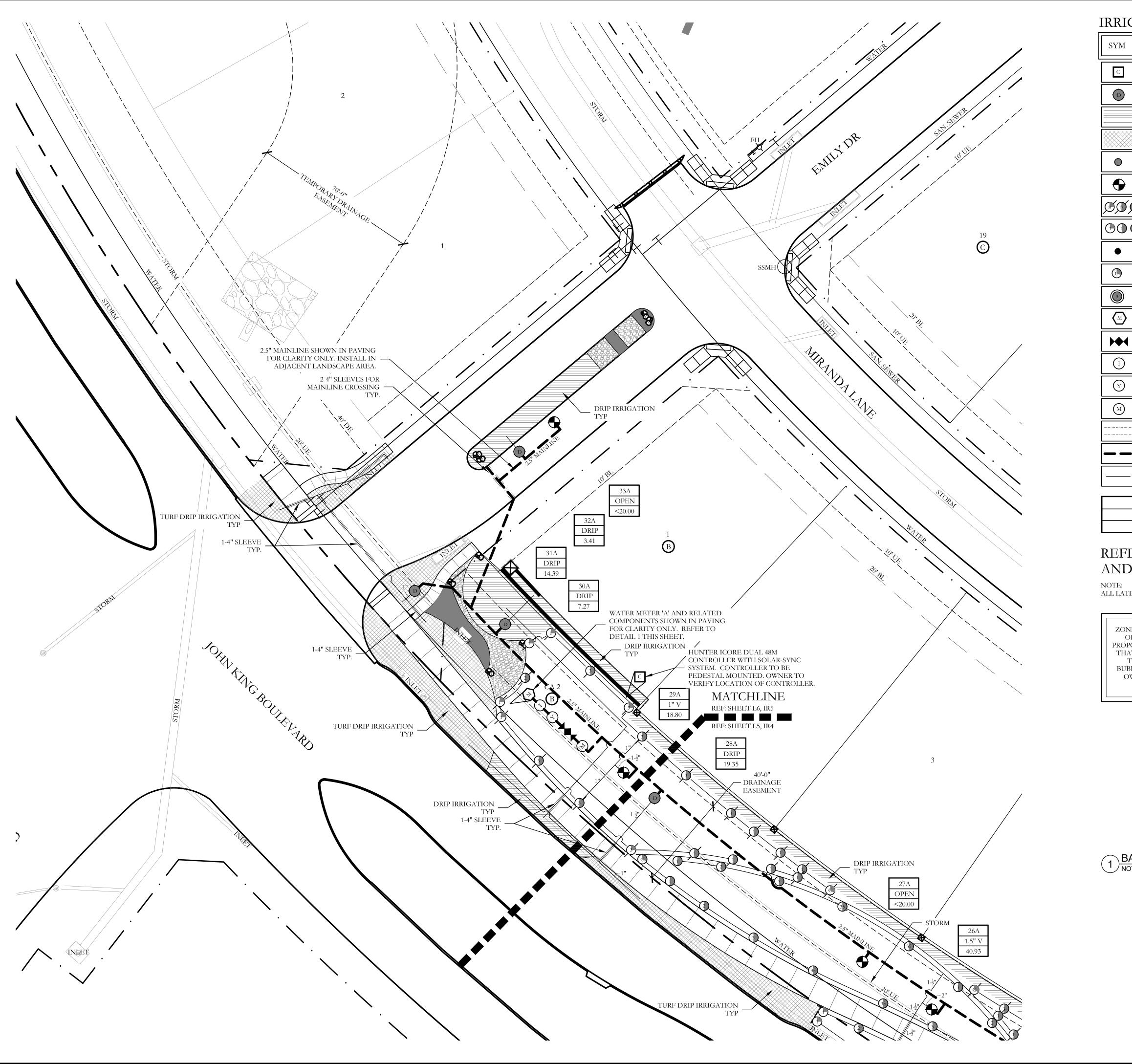
------ VALVE SIZE IN INCHES

GALLONS PER MINUTE, PER VALVE

## REFER TO SHEET IR10 FOR FULL IRRIGATION LEGEND AND SCHEDULE

NOTE: ALL LATERAL LINES SHALL BE 3/4" CLASS 200 PVC UNLESS OTHERWISE NOTED ON PLANS.





| DESCRIPTION                          | MANUFACTURER | MODEL                                     | SIZE / NOZZLE                                     |
|--------------------------------------|--------------|---|---|
| AUTOMATIC CONTROLLER                 | HUNTER       | REFER TO<br>PLANS                         | N/A   |
| DRIP IRRIGATION<br>CONTROL VALVE     | HUNTER       | ICZ-101                                   | 1"  |
| DRIP IRRIGATION<br>(LANDSCAPE BEDS)  | HUNTER       | PLD-06-18                                 | N/A   |
| DRIP IRRIGATION<br>(TURF BEDS)       | HUNTER       | PLD-06-12                                 | N/A   |
| DRIP IRRIGATION                      | HUNTER       | AFB-ADJ BUBBLER<br>(0.5 GPM EACH BUBBLER) | 1/2"  |
| REMOTE CONTROL VALVE                 | HUNTER       | ICV-101G<br>ICV-151G                      | Refer to Plan<br>for Size                         |
| SHRUB MP ROTATOR                     | HUNTER       | 12" RAISED MP<br>ROTATOR                  | MP1000, MP2000,<br>MP3000, MP3500                 |
| LAWN MP ROTATOR                      | HUNTER       | MP ROTATOR                                | MP1000, MP2000,<br>MP3000, MP3500                 |
| 4" POP UP<br>MP ROTATOR CORNER STRIP | HUNTER       | STRIP SERIES                              | MPLC515 IVORY<br>MPRCS515 COPPER<br>MPSS530 BROWN |
| 4" POP UP<br>MP ROTATOR CORNER       | HUNTER       | CORNER SERIES                             | MP CORNER SERIES<br>ADJUSTABLE ARC<br>8'-15'      |
| ROTOR HEAD                           | HUNTER       | PGP SERIES                                | #9 NOZZLES  |
| WATER METER                          |              | PER CITY                                  | Refer to Plan<br>for Size                         |
| DOUBLE CHECK VALVE                   | Febco        | 850-BV Series                             | Refer to Plan<br>for Size                         |
| ISOLATION VALVE                      | Nibco        | *T-113                                    | Line Size   |
| WYE STRAINER                         | Febco        | *850                                      | Refer to Plan<br>for Size                         |
| MASTER VALVE                         | Hunter       | ICV-101G<br>ICV-151G                      | Refer to Plan<br>for Size                         |
| IRRIGATION SLEEVE                    |              | SCH. 40 w/ 12 GA.<br>PULL WIRE IN SLEEVE  | Refer to Plan<br>for Size                         |
| IRRIGATION MAIN LINE                 |              | SCH. 40                                   | Refer to Plan<br>for Size                         |
| IRRIGATION LATERAL LINE              |              | CLASS 200                                 | Refer to Plan<br>for Size                         |

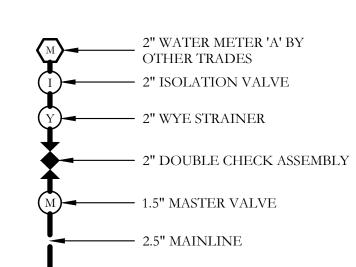
------ VALVE SIZE IN INCHES

—— GALLONS PER MINUTE, PER VALVE

## REFER TO SHEET IR10 FOR FULL IRRIGATION LEGEND AND SCHEDULE

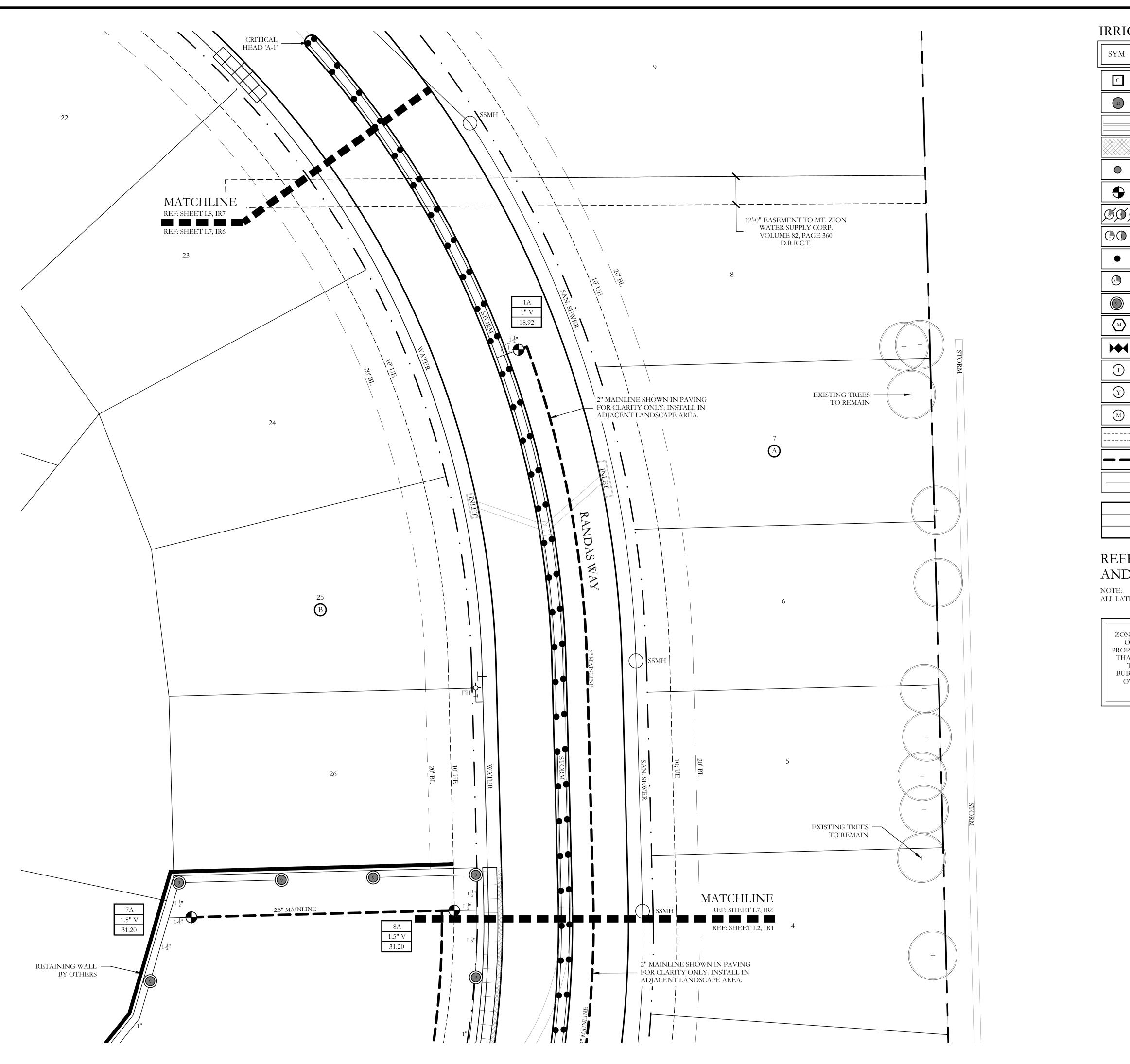
ALL LATERAL LINES SHALL BE 3/4" CLASS 200 PVC UNLESS OTHERWISE NOTED ON PLANS.

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1 BACKFLOW AND RELATED COMPONENTS NOT TO SCALE

| SHEET      | CJS P |  | SCREENING AND BUFFERING                  | 20 10<br>So<br>Bar i<br>origi<br>one                            |                      | -   |
|------------|-------|--|--|---|----------------------|---|
| PAD<br>NO. | ROJEC |  | Irrigation Plan                          | NOR   | DY L. JO<br>1713     |   |
|            | T NO. |  | Saddle Star Estates South - Phase 1      | TH<br>= 20'-0"<br>h on<br>ng. If no<br>his sheet,<br>o necessar | OHNSON<br>2<br>RRIGN | JITE 2  |
| -          |       |  | City of Rockwall, Rockwall County, Texas |   |                      | PH. (903) 570-0162<br>EMAIL: CODY@CODYJOHNSONSTUDIO.COM |



| DESCRIPTION                          | MANUFACTURER | MODEL                                     | SIZE / NOZZLE                                     |
|--------------------------------------|--------------|---|---|
| AUTOMATIC CONTROLLER                 | HUNTER       | REFER TO<br>PLANS                         | N/A   |
| DRIP IRRIGATION<br>CONTROL VALVE     | HUNTER       | ICZ-101                                   | 1"  |
| DRIP IRRIGATION<br>(LANDSCAPE BEDS)  | HUNTER       | PLD-06-18                                 | N/A   |
| DRIP IRRIGATION<br>(TURF BEDS)       | HUNTER       | PLD-06-12                                 | N/A   |
| DRIP IRRIGATION                      | HUNTER       | AFB-ADJ BUBBLER<br>(0.5 GPM EACH BUBBLER) | 1/2"  |
| REMOTE CONTROL VALVE                 | HUNTER       | ICV-101G<br>ICV-151G                      | Refer to Plan<br>for Size                         |
| SHRUB MP ROTATOR                     | HUNTER       | 12" RAISED MP<br>ROTATOR                  | MP1000, MP2000,<br>MP3000, MP3500                 |
| LAWN MP ROTATOR                      | HUNTER       | MP ROTATOR                                | MP1000, MP2000,<br>MP3000, MP3500                 |
| 4" POP UP<br>MP ROTATOR CORNER STRIP | HUNTER       | STRIP SERIES                              | MPLC515 IVORY<br>MPRCS515 COPPER<br>MPSS530 BROWN |
| 4" POP UP<br>MP ROTATOR CORNER       | HUNTER       | CORNER SERIES                             | MP CORNER SERIES<br>ADJUSTABLE ARC<br>8'-15'      |
| ROTOR HEAD                           | HUNTER       | PGP SERIES                                | #9 NOZZLES  |
| WATER METER                          |              | PER CITY                                  | Refer to Plan<br>for Size                         |
| DOUBLE CHECK VALVE                   | Febco        | 850-BV Series                             | Refer to Plan<br>for Size                         |
| ISOLATION VALVE                      | Nibco        | *T-113                                    | Line Size   |
| WYE STRAINER                         | Febco        | *850                                      | Refer to Plan<br>for Size                         |
| MASTER VALVE                         | Hunter       | ICV-101G<br>ICV-151G                      | Refer to Plan<br>for Size                         |
| IRRIGATION SLEEVE                    |              | SCH. 40 w/ 12 GA.<br>PULL WIRE IN SLEEVE  | Refer to Plan<br>for Size                         |
| IRRIGATION MAIN LINE                 |              | SCH. 40                                   | Refer to Plan<br>for Size                         |
| IRRIGATION LATERAL LINE              |              | CLASS 200                                 | Refer to Plan<br>for Size                         |

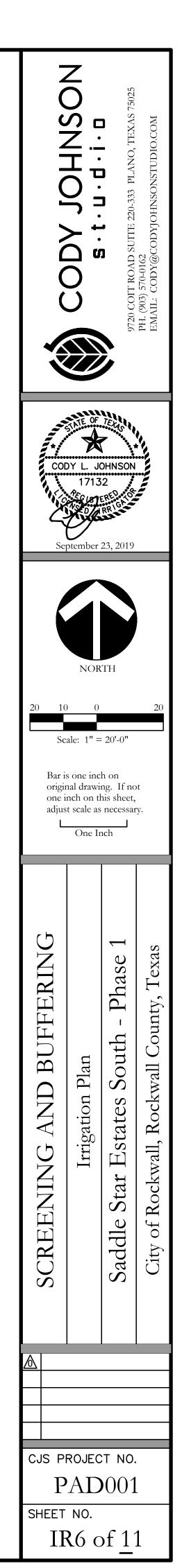
✓ VALVE SIZE IN INCHES

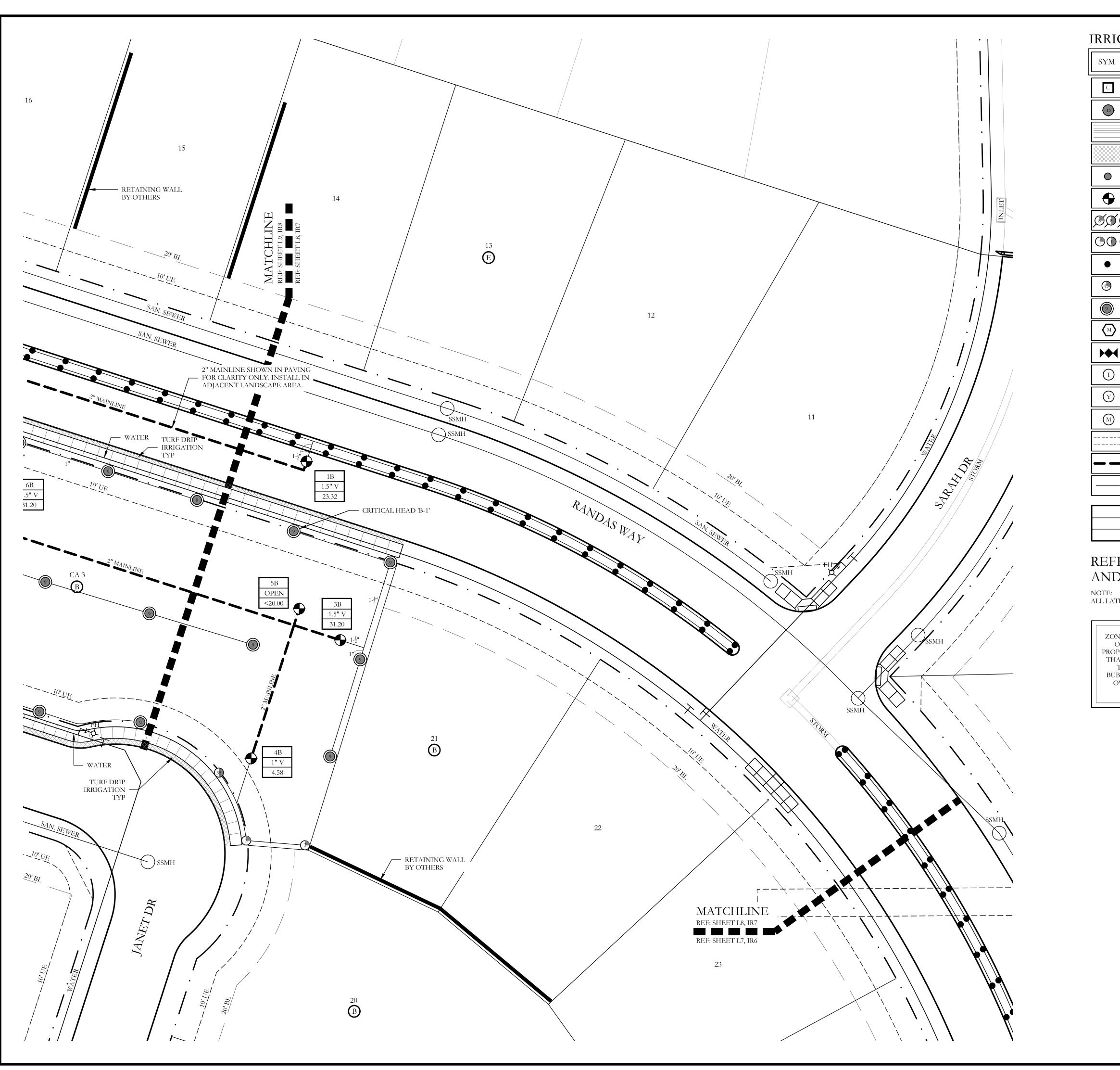
GALLONS PER MINUTE, PER VALVE

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|--------------------------------------|--------------|---|---|
| AUTOMATIC CONTROLLER                 | HUNTER       | REFER TO<br>PLANS                         | N/A   |
| DRIP IRRIGATION<br>CONTROL VALVE     | HUNTER       | ICZ-101                                   | 1"  |
| DRIP IRRIGATION<br>(LANDSCAPE BEDS)  | HUNTER       | PLD-06-18                                 | N/A   |
| DRIP IRRIGATION<br>(TURF BEDS)       | HUNTER       | PLD-06-12                                 | N/A   |
| DRIP IRRIGATION                      | HUNTER       | AFB-ADJ BUBBLER<br>(0.5 GPM EACH BUBBLER) | 1/2"  |
| REMOTE CONTROL VALVE                 | HUNTER       | ICV-101G<br>ICV-151G                      | Refer to Plan<br>for Size                         |
| SHRUB MP ROTATOR                     | HUNTER       | 12" RAISED MP<br>ROTATOR                  | MP1000, MP2000,<br>MP3000, MP3500                 |
| LAWN MP ROTATOR                      | HUNTER       | MP ROTATOR                                | MP1000, MP2000,<br>MP3000, MP3500                 |
| 4" POP UP<br>MP ROTATOR CORNER STRIP | HUNTER       | STRIP SERIES                              | MPLC515 IVORY<br>MPRCS515 COPPER<br>MPSS530 BROWN |
| 4" POP UP<br>MP ROTATOR CORNER       | HUNTER       | CORNER SERIES                             | MP CORNER SERIES<br>ADJUSTABLE ARC<br>8'-15'      |
| ROTOR HEAD                           | HUNTER       | PGP SERIES                                | #9 NOZZLES  |
| WATER METER                          |              | PER CITY                                  | Refer to Plan<br>for Size                         |
| DOUBLE CHECK VALVE                   | Febco        | 850-BV Series                             | Refer to Plan<br>for Size                         |
| ISOLATION VALVE                      | Nibco        | *T-113                                    | Line Size   |
| WYE STRAINER                         | Febco        | *850                                      | Refer to Plan<br>for Size                         |
| MASTER VALVE                         | Hunter       | ICV-101G<br>ICV-151G                      | Refer to Plan<br>for Size                         |
| IRRIGATION SLEEVE                    |              | SCH. 40 w/ 12 GA.<br>PULL WIRE IN SLEEVE  | Refer to Plan<br>for Size                         |
| IRRIGATION MAIN LINE                 |              | SCH. 40                                   | Refer to Plan<br>for Size                         |
| IRRIGATION LATERAL LINE              |              | CLASS 200                                 | Refer to Plan<br>for Size                         |

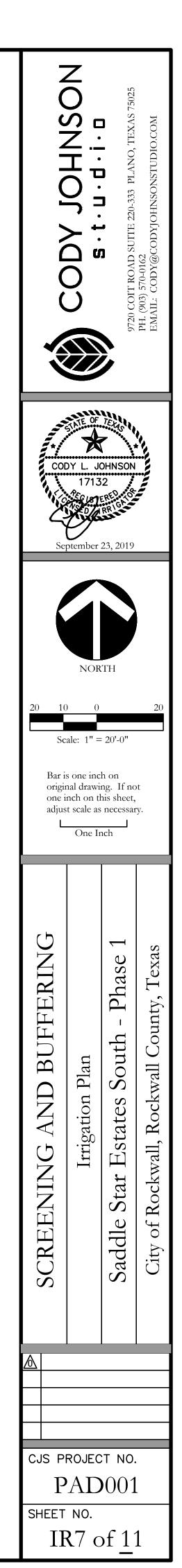
◄ VALVE SIZE IN INCHES

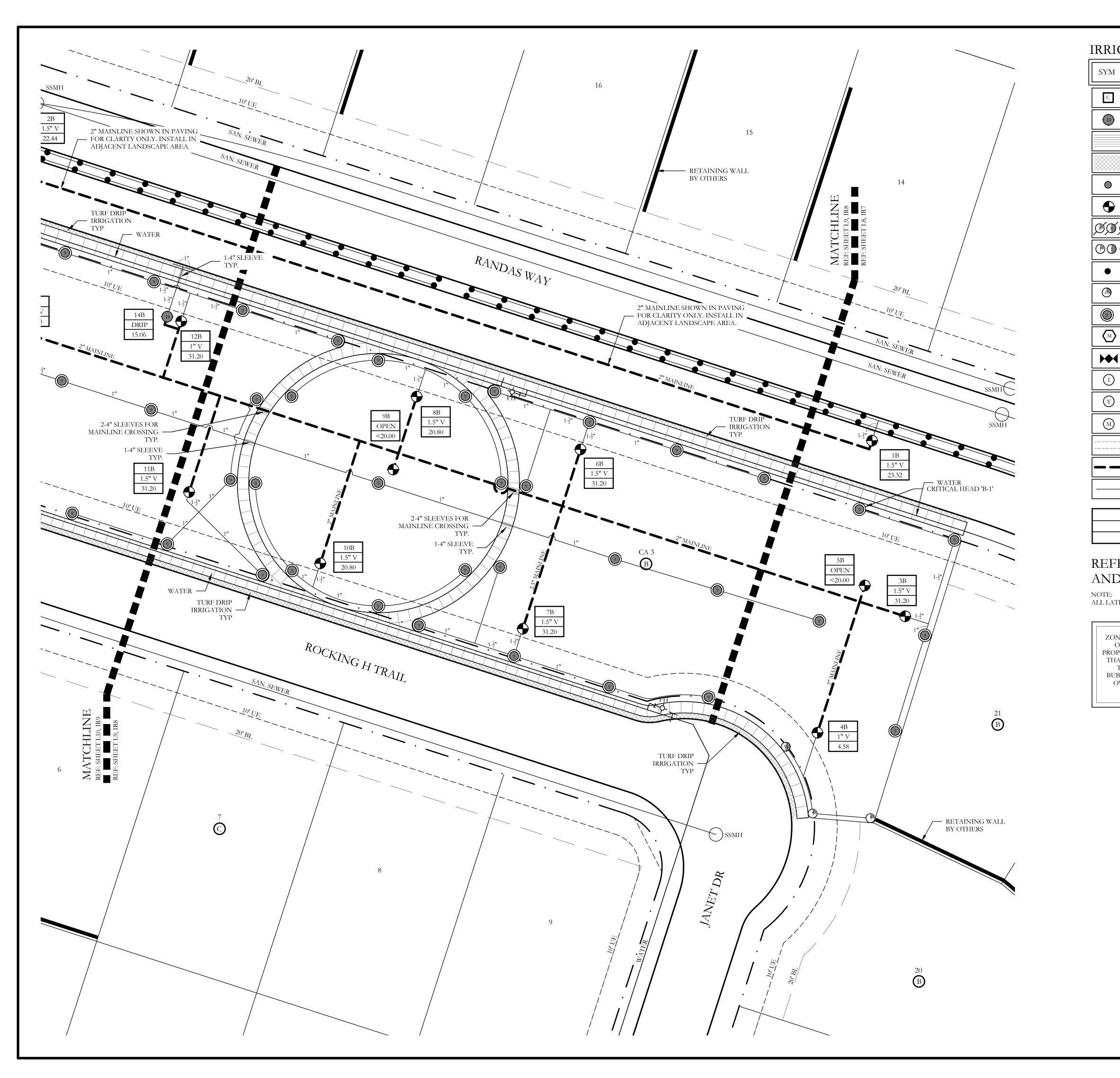
GALLONS PER MINUTE, PER VALVE

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| DRIP IRRIGATION                      | HUNTER       | AFB-ADJ BUBBLER<br>(0.5 GPM EACH BUBBLER) | 1/2"  |
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| ROTOR HEAD                           | HUNTER       | PGP SERIES                                | #9 NOZZLES  |
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| ISOLATION VALVE                      | Nibco        | *T-113                                    | Line Size   |
| WYE STRAINER                         | Febco        | *850                                      | Refer to Plan<br>for Size                         |
| MASTER VALVE                         | Hunter       | ICV-101G<br>ICV-151G                      | Refer to Plan<br>for Size                         |
| IRRIGATION SLEEVE                    |              | SCH. 40 w/ 12 GA.<br>PULL WIRE IN SLEEVE  | Refer to Plan<br>for Size                         |
| IRRIGATION MAIN LINE                 |              | SCH. 40                                   | Refer to Plan<br>for Size                         |
| IRRIGATION LATERAL LINE              |              | CLASS 200                                 | Refer to Plan<br>for Size                         |

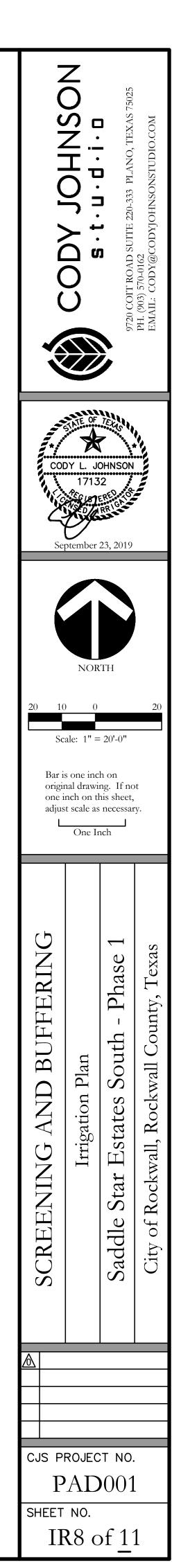
✓ VALVE SIZE IN INCHES

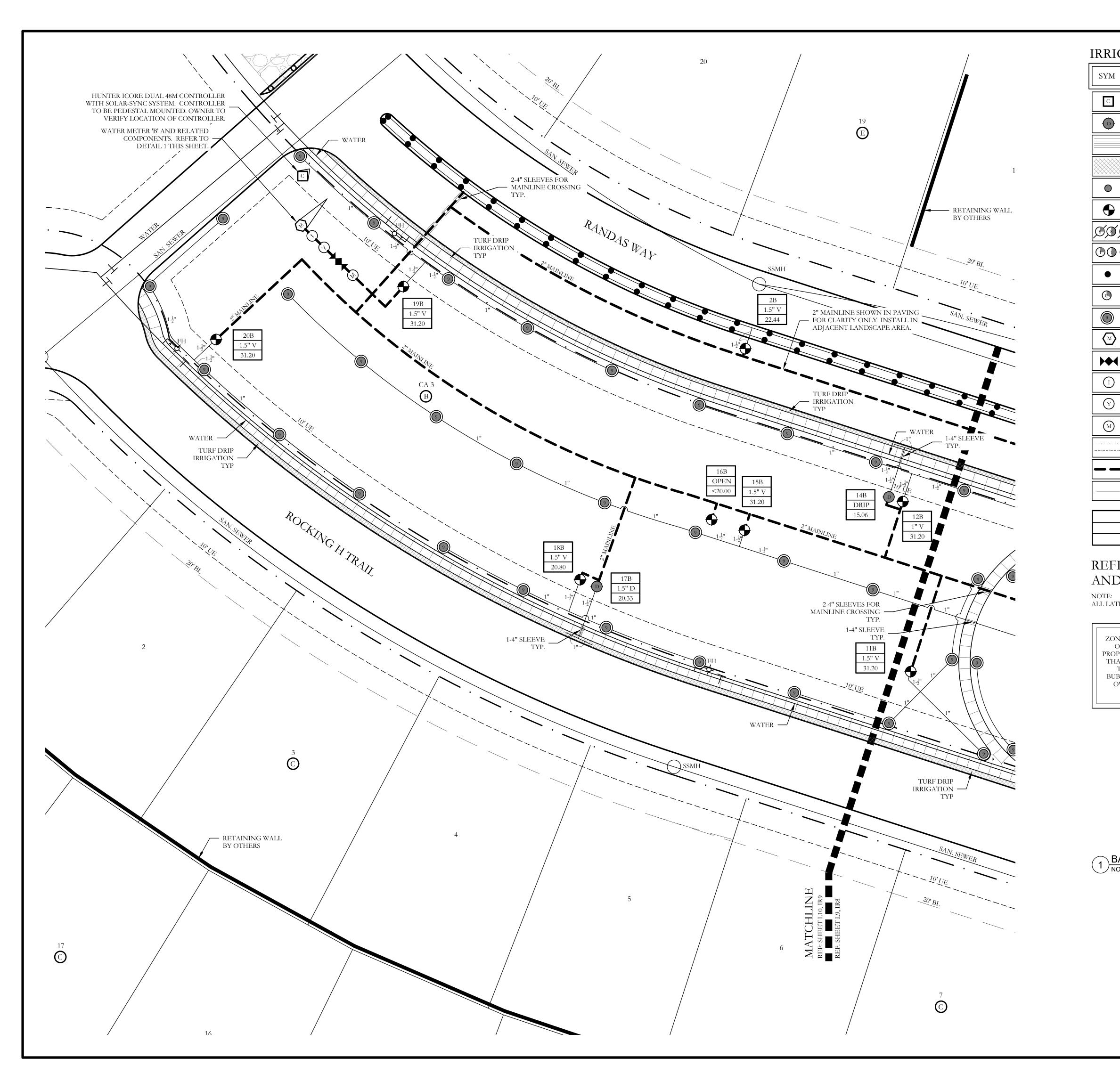
GALLONS PER MINUTE, PER VALVE

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|--------------------------------------|--------------|---|---|
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| DRIP IRRIGATION                      | HUNTER       | AFB-ADJ BUBBLER<br>(0.5 GPM EACH BUBBLER) | 1/2"  |
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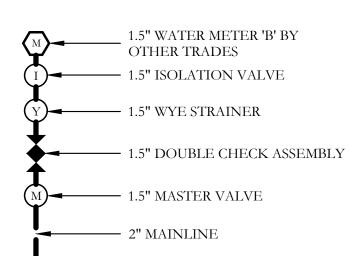
✓ VALVE SIZE IN INCHES

GALLONS PER MINUTE, PER VALVE

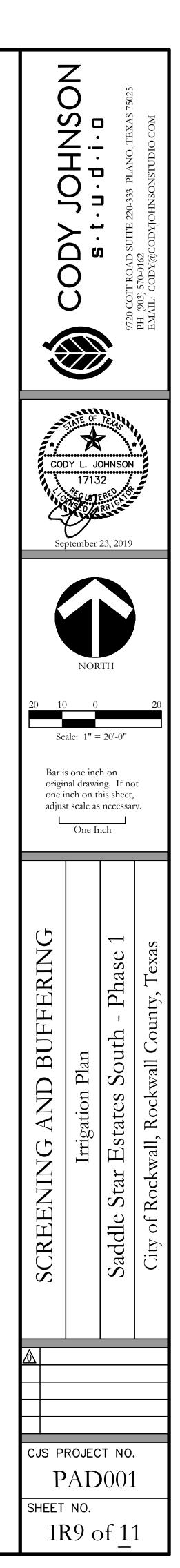
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1 BACKFLOW AND RELATED COMPONENTS NOT TO SCALE

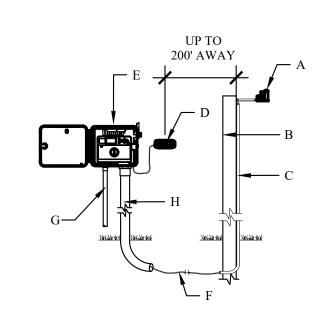


#### TWO-WIRE IRRIGATION NOTES

- PROVIDE A COMPLETE, FUNCTIONING AUTOMATIC IRRIGATION SYSTEM INCLUDING LABOR MATERIALS, FEES, TAXES, EQUIPMENT, AND OTHER COSTS INCIDENTAL TO ACCOMPLISHING WORK. 2. ACQUIRE WRITTEN APPROVAL FROM THE LANDSCAPE ARCHITECT OR LICENSED IRRIGATOR FOR
- MATERIAL SUBSTITUTES PRIOR TO BEGINNING INSTALLATION. FORTY EIGHT (48) HOURS BEFORE IRRIGATION CONSTRUCTION BEGINS, IRRIGATION CONTRACTOR MUST CALL (800) DIG-TESS AND IS RESPONSIBLE FOR LOCATING EXISTING UNDERGROUND UTILITIES

AND/OR OBSTACLES PRIOR TO BEGINNING WORK. ANY DAMAGE TO UTILITIES AND/OR FINISHES FROM INFERIOR WORKMANSHIP BY THE IRRIGATION CONTRACTOR SHALL BE REPAIRED AT NO ADDITIONAL COST TO THE OWNER. 4. PIPING IS DIAGRAMMATIC AND SHOWN FOR CLARITY ONLY. ADJUST AS REQUIRED FOR EXISTING

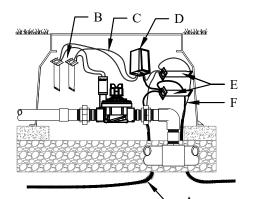
- UTILITIES, OBSTRUCTIONS, TREE ROOT BALLS, ETC. PIPING AND VALVES SHOWN IN PAVING FOR CLARITY ONLY AND SHALL BE INSTALLED IN ADJACENT LANDSCAPE AREA. COORDINATE WITH THE CITY OR ENTITY INSPECTING THE IRRIGATION SYSTEM AND DETERMINE THE LOCAL RULES AND CODES TO ABIDE BY REGARDING MAINLINE AND LATERAL PIPING LOCATIONS. COORDINATE SLEEVE AND CONDUIT REQUIREMENTS WITH GENERAL CONTRACTOR. IRRIGATION
- SLEEVES SHALL BE AS FOLLOWS: 5.1. SLEEVES INTENDED FOR LATERAL LINES ARE TO BE ONE-FOUR INCH SLEEVE AND ARE TO BE NO MORE THAN A DEPTH OF TWO FEET BELOW TOP OF CURB. SLEEVES SHOULD EXTEND A
- MINIMUM OF 2'-0" BEYOND BACK OF CURB. SLEEVES INTENDED FOR THE 2.5" & 2" MAINLINE ARE TO BE TWO-FOUR INCH SLEEVES SIDE BY 5.2.
- SIDE AND ARE TO BE NO MORE THAN A DEPTH OF TWO FEET BELOW TOP OF CURB. SLEEVES SHOULD EXTEND A MINIMUM OF 2'-0" BEYOND BACK OF CURB. LOCATE EACH END OF IRRIGATION SLEEVES DIMENSIONALLY ON THE RECORD "AS BUILT"
- DRAWINGS. 7. THE IRRIGATION CONTRACTOR SHALL COORDINATE THE INSTALLATION OF THE IRRIGATION SYSTEM WITH THE LANDSCAPE CONTRACTOR TO ENSURE ALL PLANT MATERIAL WILL BE WATERED
- IN ACCORDANCE WITH THE INTENT OF THE PLANS AND SPECIFICATIONS. 8. THE IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO PLANT MATERIAL DUE TO SYSTEM FAILURE FROM INFERIOR WORKMANSHIP FOR THE DURATION OF THE INSTALLATION OF
- PLANT MATERIAL AND MAINTENANCE PERIOD FOLLOWING INSTALLATION. THE IRRIGATION CONTRACTOR SHALL PROVIDE ALL LABOR AND MATERIAL NECESSARY TO HAND DIG WITHIN ALL EXISTING TREE DRIPLINE ZONES AT NO ADDITIONAL COST TO THE OWNER. THE IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE TO STAKE AND RECEIVE APPROVAL FROM ALL DISCIPLINES PRIOR TO AN TRENCHING AND HAND DIGGING IN AREAS OF EXISTING TREE COVERAGE OR ANY ADDITIONAL AREAS THAT MIGHT BE QUESTIONABLE.
- 10. EXTEND EXTRA WIRE AND MAINLINE PAST THE FARTHEST VALVE, ROUTED PARALLEL AND PLACE IN 12"X17" PENTEK VALVE BOX WERE NOTED ON PLANS FOR FUTURE EXPANSION OF IRRIGATION SYSTEM AT A LATER DATE.
- 11. TWO WIRE PATH SHALL BE DIRECT BURIAL, 14 AWG OR STANDARD DECODER CABLE BY HUNTER WITH YELLOW JACKET (ID1YLW), RATED FOR DIRECT BURIAL APPLICATIONS, UF., UL., APPROVED. HUNTER ICD DECODERS SHALL BE USED ON ALL ZONE VALVE CONNECTIONS TO TWO WIRE PATH. CONTRACTOR TO USE MANUFACTURERS RECOMMENDATIONS OF WIRE SPLICING AND BURIAL TECHNIQUES AS DETAILED AT WWW.HUNTERINDUSTRIES.COM.
- 12. THE OWNER AND/OR LANDSCAPE ARCHITECT SHALL DETERMINE THE FINAL CONTROLLER LOCATION. THE IRRIGATION CONTRACTOR SHALL MAKE FINAL ELECTRICAL CONNECTION OF CONTROLLER PER LOCAL ELECTRICAL CODE. PROVIDE ALL NECESSARY FUSE BOXES, CONDUIT, FITTINGS, CONNECTORS OR OTHER ELECTRICAL DEVICES TO MAKE CONNECTION. OWNER SHALL PROVIDE ELECTRICAL SERVICE WITHIN 10 LINEAR FEET OF CONTROLLER LOCATION UNLESS NOTED OTHERWISE ON DRAWINGS.
- 13. CONNECT REMOTE SENSORS TO CONTROLLER WITH GROUND WIRE IN SERIES PRIOR TO CONNECTING TO REMOTE CONTROL VALVES.
- 14. ALL P.V.C. MAINLINES AND LATERAL LINES SHALL RECEIVE AS FOLLOWS:
- 14.1. 18" MINIMUM COVER FOR MAIN LINES 14.2. 18" MINIMUM COVER FOR PIPING LOCATED UNDER PAVING
- 14.3. 12" MINIMUM COVER FOR LATERAL LINES
- 15. THE MINIMUM DISTANCE BETWEEN THE MAINLINE AND LATERAL LINE FITTINGS (EXCEPT FOR
- **REDUCER BUSHINGS) SHALL BE 18".** 16. THE MINIMUM HORIZONTAL DISTANCE OF 36" SHALL BE MAINTAINED BETWEEN ANY VALVES THAT
- ARE INSTALLED SIDE BY SIDE. 17. WHERE SERVICE TREES ARE INSTALLED ON THE MAINLINE FOR INSTALLATION OF THE ELECTRIC VALVES AND/OR QUICK COUPLING VALVES, THE CONTRACTOR SHALL LIMIT THE NUMBER OF THESE PER SERVICE TEE. DO NOT INSTALL MORE THAN A TOTAL OF EITHER THREE ELECTRIC VALVES OR A COMBINATION OF TWO ELECTRIC VALVES AND ONE QUICK COUPLER VALVE AT EACH TEE. THE MINIMUM DISTANCE BETWEEN FITTINGS SHALL BE 18" AS REFERENCED IN THE ABOVE NOTES.
- 8. ALL PVC PIPE AND FITTINGS ARE TO BE PRIMED WITH PURPLE PVC PRIMER SOLVENT BEFORE APPLYING PVC CEMENT IN ACCORDANCE WITH THE UNIFORM PLUMBING CODE.
- 19. INSTALL QUICK COUPLING VALVES IN 12"X17" PENTEK VALVE BOXES PER DETAIL SHOWN. CONNECT QUICK COUPLING VALVES TO MAINLINE PIPE WITH LASCO UNITIZED, O-RING SWING JOINTS PER DETAIL SHOWN, #T722-22. SUPPLY OWNER WITH THREE COUPLER KEYS WITH SWIVEL HOSE BIBB EACH, #33DK-10 AND #SH-0 RESPECTIVELY. VALVES TO BE INSTALLED SO THAT THE TOP OF THE QUICK COUPLER IS 2" BELOW BOTTOM OF VALVE BOX LID. PURPLE LID SHALL READ "NON-POTABLE, NOT SAFE FOR DRINKING" IN ENGLISH AND SPANISH.
- 20. ALL LATERAL LINES SHALL BE 3/4" CLASS 200 PVC UNLESS OTHERWISE NOTED ON PLANS. 21. ZONE VALVES LABELED AS 'OPEN" ARE INTENDED FOR THE USE OF SUPPLYING HUNTER AFB-ADJ TREE BUBBLERS ON EACH PROPOSED TREE. IRRIGATION CONTRACTOR SHALL FIELD VERIFY THAT THESE ZONES DO NOT EXCEED 20 GALLONS PER MINUTE. THE IRRIGATION CONTRACTOR SHALL STAKE EACH TREE BUBBLER HEAD LOCATION AND RECEIVE APPROVAL FROM THE OWNER AND/OR THE OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
- 22. ALL STATE OF TEXAS LAWS/RULES AND ALL LOCAL CODES/ORDINANCES AREA MADE PART OF THESE PLANS AND SPECIFICATIONS WHETHER SHOWN OR NOT. THESE LAWS AND ORDINANCES WILL SUPERCEDE THE PLANS, DETAILS, AND/OR SPECIFICATIONS FOR THIS PROJECT. THE IRRIGATION CONTRACTOR IS CAUTIONED THAT HE/SHE IS TO INCLUDE ANY AND ALL COST NECESSARY TO MEET OR EXCEED THE LAWS OF THE STATE OF TEXAS AND LOCAL CODES CONCERNING LANDSCAPE IRRIGATION.
- 24. INCLUDE THE FOLLOWING ALLOWANCES FOR PROVIDING AND INSTALLING AIR RELIEF VALVES AND FLUSH VALVES FOR THE DRIP SYSTEM. EXACT OUANTITY AND LOCATION OF THESE DEVICES WILL BE DETERMINED AT THE TIME OF INSTALLATION. IN GENERAL, ALL AIR RELIEF VALVES WILL BE INSTALLED AT THE HIGH POINTS AND FLUSH VALVES WILL BE INSTALLED AT THE LOW POINTS OF EXHAUST HEADER. ALLOW FOR APPROXIMATELY (1) AIR RELIEF AND APPROXIMATELY ONE (1) FLUSH VALVE FOR EACH DRIP ZONE KIT.
- 25. INCLUDE THE FOLLOWING ALLOWANCE FOR PROVIDING AND INSTALLING DRIP INDICATOR FOR THE DRIP SYSTEM. LOCATION OF DRIP INDICATOR SHOULD BE CENTERED IN DRIP ZONE.



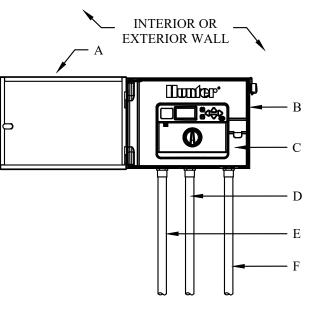
- CONSTRUCTION NOTES: MODEL: SOLAR SYNC SENSOR
- SUITABLE POST, POLE, OR GUTTER MOUNT. MOUNT IN LOCATION WHERE SENSOR CAN RECEIVE FULL SUN, IS OPEN TO RAINFALL AND OUT OF SPRINKLER SPRAY PATTERN.
- C. CONDUIT FROM SOLAR SYNC SENSOR TO CONTROLLER OR TO A POINT 12" BELOW GRADE MODEL SOLAR SYNC MODULE. MOUNT LESS THAN
- 6" AWAY FROM CONTROLLER. MODULE CAN BE MOUNTED INTERNALLY WHEN PAIRED WITH THE PCC CONTROLLER.\* HUNTER I-CORE CONTROLLER
- COMMUNICATION WIRE, 18-2(WIRE TYPE TO MEET INSTALLATION CODE REQUIREMENTS), FROM MODULE TO SENSOR. MAXIMUM TOTAL WIRE DISTANCE, 200 FEET.
- G. POWER SOURCE H. CONDUIT FOR VALVE CONTROL WIRE AND SOLAR SYNC COMMUNICATION WIRE

SOLAR SYNC SYSTEM (I-CORE CONTROLLER) NOT TO SCALE

| SYM | DESCRIPTION                          | MANUFACTURER | MODEL                                     | SIZE / NOZZLE                                     | NOTES   |
|-----|--------------------------------------|--------------|---|---|---|
| С   | AUTOMATIC CONTROLLER                 | HUNTER       | REFER TO<br>PLANS                         | N/A   | INSTALL PER MANUFACTURER'S STANDARDS. IN ADDITION, INSTALL SOLAR-SYNC SYSTEM BY HUNTER.   |
| D   | DRIP IRRIGATION<br>CONTROL VALVE     | HUNTER       | ICZ-101                                   | 1"  | INSTALL PER DETAIL IN 10" ROUND BOX w/<br>BOLT DOWN LID. ROUT AND PAINT VALVE NUMBER ON LID.  |
|     | DRIP IRRIGATION<br>(LANDSCAPE BEDS)  | HUNTER       | PLD-06-18                                 | N/A   | INSTALL PER DETAIL w/ 40 PSI AT OUTFLOW OF DRIP<br>ZONE VALVE.  |
|     | DRIP IRRIGATION<br>(TURF BEDS)       | HUNTER       | PLD-06-12                                 | N/A   | INSTALL PER DETAIL w/ 40 PSI AT OUTFLOW OF DRIP<br>ZONE VALVE.  |
| 0   | DRIP IRRIGATION                      | HUNTER       | AFB-ADJ BUBBLER<br>(0.5 GPM EACH BUBBLER) | 1/2"  | INSTALL PER DETAIL w/ 40 PSI AT BASE OF HEAD.<br>INSTALL 1.0 GPM/LARGE SHADE TREE AND 0.5 GPM/ORN. TREES<br>INSTALL ON ALL PROPOSED TREES, SEE LANDSCAPE PLANS. |
| •   | REMOTE CONTROL VALVE                 | HUNTER       | ICV-101G<br>ICV-151G                      | Refer to Plan<br>for Size                         | INSTALL PER DETAIL IN 10" ROUND PENTEK VALVE BOX WITH<br>BOLT DOWN LID. ROUT AND PAINT VALVE NUMBER ON LID.   |
| T)  | SHRUB MP ROTATOR                     | HUNTER       | 12" RAISED MP<br>ROTATOR                  | MP1000, MP2000,<br>MP3000, MP3500                 | INSTALL PER DETAIL w/ 40 PSI AT BASE OF HEAD.<br>INSTALL ON IPS FLEX PIPE ALL SPRAY BODIES.<br>INSTALL NOZZLES ON 12" PRS40 SPRAY BODIES W/ 6" STEM EXTENSION.  |
|     | LAWN MP ROTATOR                      | HUNTER       | MP ROTATOR                                | MP1000, MP2000,<br>MP3000, MP3500                 | INSTALL PER DETAIL w/ 40 PSI AT BASE OF HEAD.<br>INSTALL ON IPS FLEX PIPE ALL SPRAY BODIES.<br>INSTALL NOZZLES ON 4" PRS40 SPRAY BODIES.                        |
| •   | 4" POP UP<br>MP ROTATOR CORNER STRIP | HUNTER       | STRIP SERIES                              | MPLC515 IVORY<br>MPRCS515 COPPER<br>MPSS530 BROWN | INSTALL PER DETAIL w/ 40 PSI AT BASE OF HEAD.<br>INSTALL ON IPS FLEX PIPE ALL SPRAY BODIES.<br>INSTALL NOZZLES ON 4" PRS40 SPRAY BODIES.                        |
| ٢   | 4" POP UP<br>MP ROTATOR CORNER       | HUNTER       | CORNER SERIES                             | MP CORNER SERIES<br>ADJUSTABLE ARC<br>8'-15'      | INSTALL PER DETAIL w/ 40 PSI AT BASE OF HEAD.<br>INSTALL ON IPS FLEX PIPE ALL SPRAY BODIES.<br>INSTALL NOZZLES ON 4" PRS40 SPRAY BODIES.                        |
|     | ROTOR HEAD                           | HUNTER       | PGP SERIES                                | #9 NOZZLES  | INSTALL PER DETAIL w/ 50 PSI AT BASE OF HEAD.<br>INSTALL LASCO T732-212 SWING JOINTS (OR APPROVED EQUAL)<br>ON ALL ROTORS.                                      |
| M   | WATER METER                          |              | PER CITY                                  | Refer to Plan<br>for Size                         | INSTALLED BY GENERAL CONTRACTOR   |
|     | DOUBLE CHECK VALVE                   | Febco        | 850-BV Series                             | Refer to Plan<br>for Size                         | FURNISH AND INSTALL PER LOCAL CODE BY LICENSED IRRIGATION CONTRACTOR.   |
| I   | ISOLATION VALVE                      | Nibco        | *T-113                                    | Line Size   | INSTALL PER DETAIL IN 12"x17" PENTEK VALVE BOX WITH BOLT DOWN LID.  |
| Y   | WYE STRAINER                         | Febco        | *850                                      | Refer to Plan<br>for Size                         | INSTALL PER DETAIL IN 12"x17" PENTEK VALVE BOX WITH BOLT DOWN LID.  |
| M   | MASTER VALVE                         | Hunter       | ICV-101G<br>ICV-151G                      | Refer to Plan<br>for Size                         | INSTALL PER DETAIL IN 12"x17" PENTEK VALVE BOX WITH BOLT DOWN LID.  |
|     | IRRIGATION SLEEVE                    |              | SCH. 40 w/ 12 GA.<br>PULL WIRE IN SLEEVE  | Refer to Plan<br>for Size                         | DRIVEWAY SLEEVES INSTALLED BY GENERAL CONTRACTOR.<br>SIDEWALK SLEEVES INSTALLED BY IRRIGATION CONTRACTOR.   |
|     | IRRIGATION MAIN LINE                 |              | SCH. 40                                   | Refer to Plan<br>for Size                         | 18" INSTALLATION DEPTH.   |
|     | IRRIGATION LATERAL LINE              |              | CLASS 200                                 | Refer to Plan<br>for Size                         | 12" INSTALLATION DEPTH STANDARD. 18" INSTALLATION DEPTH<br>UNDER PAVING.  |









— GALLONS PER MINUTE, PER VALVE

**CONSTRUCTION NOTES:** . JACKETED ID WIRE PATH TWISTED TO NEXT DECODER

- DBY-2 TWO BLACK WIRES TO VALVE SOLENOID/
- UP TO 100 FT/30M MODEL DUAL-1 DECODER
- DBR\T-6 (2)
- JACKETED ID: WIRE PATH FROM
- CONTROLLER ALLOW 5 FT./1.5M SLACK PER DECODER/1/3 ON EITHER SIDE OF DECODER.

**CONSTRUCTION NOTES:** 

- B. MODEL IC-XX00D-M
- D. JACKETED ID WIRE IN ELECTRICAL
- E.  $\frac{1}{2}$ " POWER SUPPLY CONDUIT J-BOX INSIDE
- CONDUIT FOR GROUND WIRE, GROUNDING
- FROM CONTROLLER AT A RIGHT ANGEL TO THE TWO WIRE PATH.

#### \*NOTE\*

MOUNT CONTROLLER WITH LCD SCREEN AT EYE LEVEL. CONTROLLER SHALL BE HARD-WIRED TO GROUNDED 110 OR 220 VAC SOURCE.

I-CORE DECODER METAL CONTROLLER

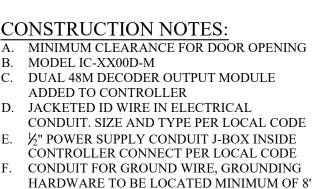
TEN DAYS PRIOR TO COMMENCING WORK, VERIFY STATIC PRESSURE. IF STATIC PRESSURE IS LESS THAN THE ASSUMED STATIC PRESSURE DO NOT START WORK UNTIL NOTIFIED IN WRITING TO PROCEED BY OWNER. IF CONTRACTOR PROCEEDS WITH WORK WITHOUT AUTHORIZATION FROM OWNER, THE CONTRACTOR SHALL BE FINANCIALLY RESPONSIBLE TO CORRECT, MODIFY OR REPAIR ANY ITEMS OR MATERIALS THAT MAY BE REQUIRED TO PROVIDE A FULLY FUNCTIONING AND OPERATIONAL IRRIGATION SYSTEM IN COMPLIANCE WITH THE PLANS AND SPECIFICATIONS. HYDRAULIC CALCULATIONS FOR THIS SYSTEM ARE BASED ON THE STATIC PRESSURE AS STATED ABOVE. THE STATIC PRESSURE SHOWN IS AN ASSUMED PRESSURE, A PRESSURE MEASURED AT THE SITE, OR AN ESTIMATED PRESSURE PROVIDED BY THE COUNTY OR CITY. THE OWNER UNDERSTANDS THIS PROJECT MAY NOT PROVIDE 100% COVERAGE AT ALL TIMES.

## ITEM SERVICE WATER I BALL VA WYE FIL BACKFL MASTER MAIN LI ZONE V LATERA CRITICA

TOTAL I ASSUME PRESSUR

| ITEM    |
|---------|
| SERVICE |
| WATER   |
| BALL VA |
| WYE FIL |
| BACKFL  |
| MASTER  |
|         |

| HYDRAULIC               | CALCU | LATIC | ON (FARTHEST HEAD)                     |
|-------------------------|-------|-------|--|
| ITEM                    | SIZE  | PSI   | NOTES                                  |
| SERVICE                 | 1.5"  | 0.88  | TYPE "K" COPPER 20 LN. FT. (31.20 GPM) |
| WATER METER             | 1.5"  | 2.10  | (31.20 GPM)                            |
| BALL VALVE              | 1.5"  | 1.00  | (31.20 GPM)                            |
| WYE FILTER              | 1.5"  | 0.30  | (31.20 GPM)                            |
| BACKFLOW PREVENTER      | 1.5"  | 4.00  | (31.20 GPM)                            |
| MASTER VALVE            | 1.5"  | 1.70  | (31.20 GPM)                            |
| MAIN LINE               | 2"    | 10.13 | 625 LINEAR FEET (31.20 GPM)            |
| ZONE VALVE (3B)         | 1.5"  | 1.70  | (31.20 GPM)                            |
| LATERAL PIPING          | N/A   | 1.89  |  |
| CRITICAL HEAD 'B-1'     | N/A   | 40.00 |  |
|                         |       |       |  |
| TOTAL LOSS              |       | 63.69 |  |
| ASSUMED STATIC PRESSURE |       | 70.00 |  |
| PRESSURE DIFFERENTIAL   |       | -6.31 |  |



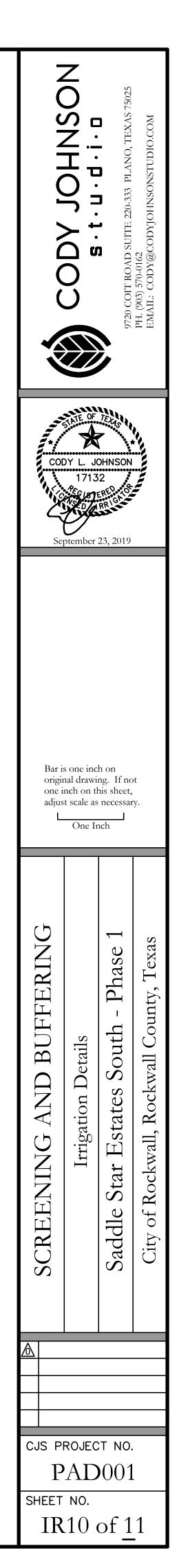
## HYDRAULIC CALCULATION NOTES

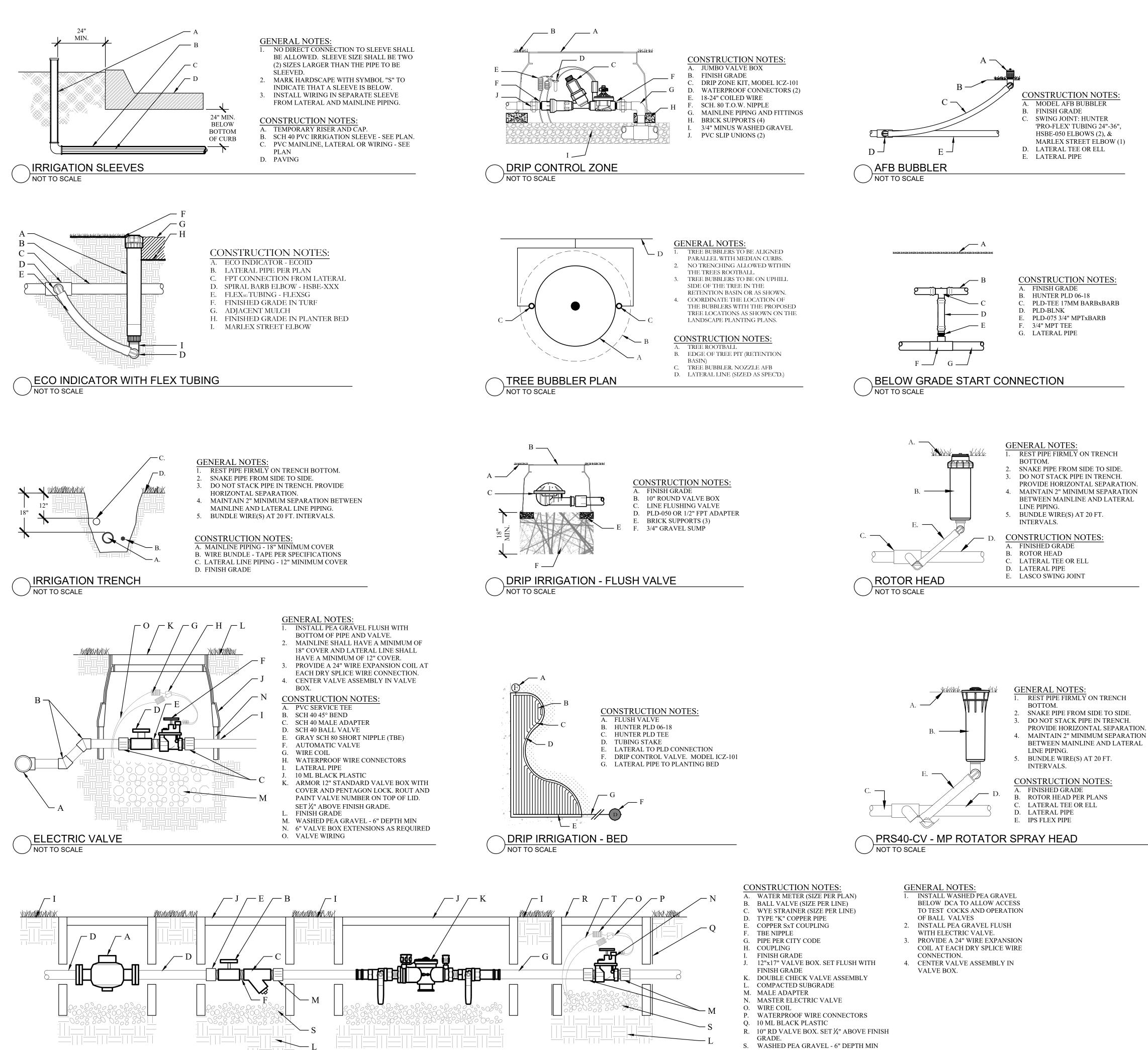
## HYDRAULIC CALCULATION (FARTHEST HEAD)

|                    | SIZE      | PSI    | NOTES   |
|--------------------|-----------|--------|---|
| Е                  | 1.5"      | 0.09   | TYPE "K" COPPER 20 LN. FT. (18.92 GPM)            |
| METER              | 2"        | 0.70   | (18.92 GPM)                                       |
| ALVE               | 2"        | 1.00   | (18.92 GPM)                                       |
| LTER               | 2"        | 0.30   | (18.92 GPM)                                       |
| LOW PREVENTER      | 2"        | 4.00   | (18.92 GPM)                                       |
| R VALVE            | 1.5"      | 1.50   | (18.92 GPM)                                       |
| INE                | 2.5" & 2" | 7.37   | 1380 LF (18.92 GPM -2.5"), 515 LF (18.92 GPM -2") |
| VALVE (1A)         | 1"        | 1.50   | (18.92 GPM)                                       |
| AL PIPING          | N/A       | 2.31   |   |
| AL HEAD 'A-1'      | N/A       | 40.00  |   |
|                    |           |        |   |
| LOSS               |           | 58.77  |   |
| ED STATIC PRESSURE |           | 70.00  |   |
| RE DIFFERENTIAL    |           | -11.23 |   |
|                    |           |        |   |

## HYDRAULIC CALCULATION (LARGEST ZONE)

| ITEM                    | SIZE | PSI   | NOTES                                  |
|-------------------------|------|-------|--|
| SERVICE                 | 2"   | 0.44  | TYPE "K" COPPER 20 LN. FT. (44.31 GPM) |
| WATER METER             | 2"   | 1.60  | (44.31 GPM)                            |
| BALL VALVE              | 2"   | 1.00  | (44.31 GPM)                            |
| WYE FILTER              | 2"   | 0.30  | (44.31 GPM)                            |
| BACKFLOW PREVENTER      | 2"   | 4.00  | (44.31 GPM)                            |
| MASTER VALVE            | 1.5" | 2.20  | (44.31 GPM)                            |
| MAIN LINE               | 2.5" | 10.51 | 790 LINEAR FEET (44.31 GPM)            |
| ZONE VALVE (19A)        | 2"   | 1.20  | (44.31 GPM)                            |
| LATERAL PIPING          | N/A  | 4.67  |  |
| CRITICAL HEAD 'A-2'     | N/A  | 40.00 |  |
|                         |      |       |  |
| TOTAL LOSS              |      | 65.92 |  |
| ASSUMED STATIC PRESSURE |      | 70.00 |  |
| PRESSURE DIFFERENTIAL   |      | -4.08 |  |





BACKFLOW PREVENTER CONNECTION

/ NOT TO SCALE

- - T. VALVE WIRING

