

OLIVER E. WATTS

CONSULTING ENGINEER

COLORADO SPRINGS

CASCADE SUBDIVISION FILING NO. 1

COLORADO SPRINGS

DATE: 1-04-22

DWG. NO.: 21-5647-06

SURVEYED BY: ESW, DEW V 6-22-21, 8-17-22

PROJ. NO.

**PRELIMINARY** GRADING AND EROSION CONTROL PLAN 13

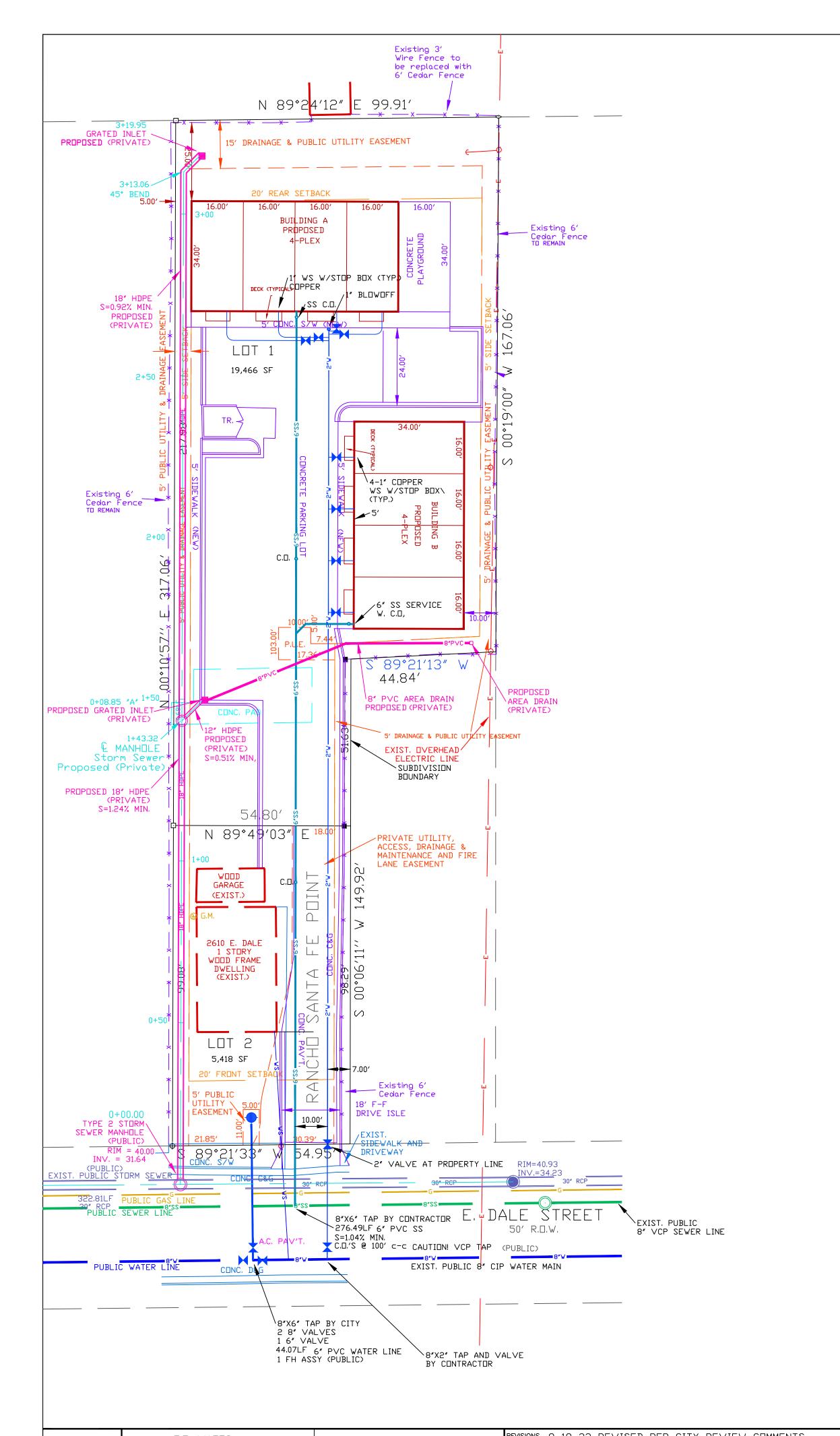
COLORADO SPRINGS OLYMPIC CITY USA

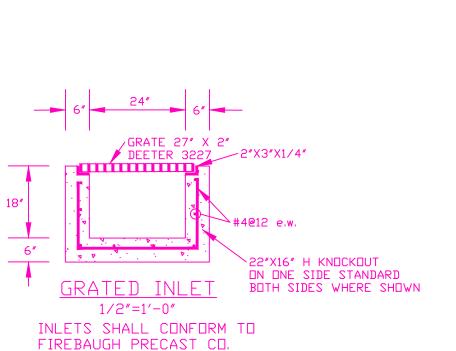
**Land Use Review** 

03/28/2024

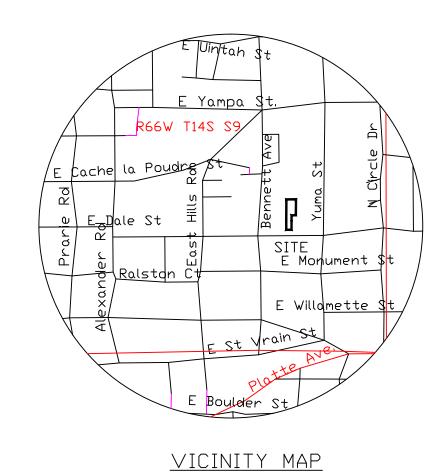
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William.Gray

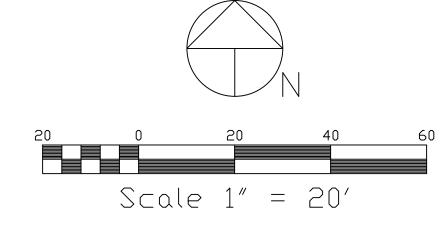




STD. INLET OR EQUAL



1"=1000'



#### LEGEND:

----- WATER LINE - EXIST

- □ FOUND 1-1/4" ORANGE #38141 CAP ON #5 REBAR
- ⇒ F□UND #4 REBAR
- FOUND 1" AL. CAP, WC., @38141 ON #5 REBAR
- ♦ ILLEG. WASHER ON CONCRETE NAIL

WATER LINE - NEW

SEWER MANHOLE → P□WER P□LE

LEGEND:

COLORADO SPRINGS OLYMPIC CITY USA **Land Use Review** Approved

FIRE HYDRANT - EXIST. FIRE HYDRANT - NEW

03/28/2024 9:13:29 AM

William.Gray

REDUCER - EXIST REDUCER - NEW

PLUG - NEW

General Notes for all Preliminary Utility Plans (required for all Development Plan submittals)

Property Owner(s) acknowledge and agree to the following upon approval of Preliminary Utility Plan:

1. Colorado Springs Utilities (Springs Utilities)shall make the final determination of the location of all water, wastewater, electric, and gas facilities, which may not be the same location as shown on this Preliminary Utility Plan.

2. Property Owner(s) ("Owner") acknowledges that the connection and/or extension of utility services to the property identified in this Preliminary Utility Plan ("Property") shall be in accord with all applicable codes and regulations, Springs Utilities' Line Extension and Service Standards ("Standards"), Tariffs, Colorado Springs City Code, resolutions, and policies, and Pikes Peak Regional Building Department codes, in effect at the time of utility service connection and/or extension.

3. Owner acknowledges responsibility for the costs of extensions or utility system improvements that Springs Utilities determines necessary to provide utility services to the Property or to ensure timely development of integrated utility systems serving the Property and areas outside the Property (including the costs to design and install water systems, wastewater collection systems and any gas or electric lines to and within the Property). Owner may be eligible for a cost Recovery Agreement as provided in Utilities' Rules and Regulations.

4. Springs Utilities' utility services are available on a "first-come, first-served" basis, and therefore no specific allocations or amounts of utility services, facilities, capacities or supplies are reserved for the Dwner, and Springs Utilities makes no commitment as to the availability of any utility service until such time as an application for permanent service is approved by Springs Utilities'.

5. The relocation or alteration of any existing utility facilities within the Property will be at the Owner's sole cost and expense. If Springs Utilities determines that Owner's relocation or alteration requires new or updated easements, Dwner shall convey those easements prior to relocating or altering the existing utility facilities.

6. Dwner, shall dedicate by plat and/or convey by recorded document, all property and easements that Springs Utilities determines are required for all utility system facilities necessary to serve the Property or to ensure development of an integrated utility system. All easements granted by separate instrument shall utilize Springs Utilities' then-current Permanent Easement Agreement.

7. The water system facilities must meet Springs Utilities' criteria for water quality, reliability and pressure, including looping requirements (see Springs Utilities' Line Extension and Service Standards).

8. Dwner recognizes that the extension of water system facilities may affect the quality of water in Springs Utilities' water system. When water quality is affected, Dwner acknowledge responsibility for any costs that Springs Utilities determines necessary in order to maintain water quality in its system as a result of Owner' water system extensions. Owner may be required to submit a Water Quality Plan for the project.

9. Owner must contact Springs Utilities Field Engineering to determine the location of all natural gas and electric meters and transformers and to secure approval of gas-service-line pressures in excess of Springs Utilities standard gas system pressure. (Contact Field Engineering North 668-4985 or South

10. It shall not be permissible for any person to modify the grade of the earth within any Springs Utilities easement or rights of way without the written approval of Springs Utilities. Improvements, structures and trees shall not be located within utility easement, shall not violate National Electric Safety Code (NESC) provisions and clearances, and shall not impair access or the ability to maintain utility facilities.

11. Springs Utilities' approval of this Preliminary Utility Plan shall not be construed as a limitation upon the authority of Springs Utilities to apply its Standards; and if there are any conflicts between any approved drawings and any provision of Standards or the City Code, then the Standards or City Code shall apply. Springs Utilities' approval of this Preliminary Utility Plan shall not be construed as a limitation upon the authority of the City of Colorado Springs or the Springs Utilities to adopt different ordinances, rules, regulations, resolutions, policies or codes which change any of the provisions of the Standards so long as these apply to the City generally and are in accord with the then-current tariffs, rates, and policies of Springs Utilities.

> Prepared by the office of: Oliver E. Watts, Consulting Engineer, Inc. 614 Elkton Drive Colorado Springs, CO 80907 (719) 593-0173 □lliewatts@aol.com Celebrating 44 years in Business

City File No.:  $\overline{DEPN-22-0083}$ 

2610 EAST DALE CASCADE SUBDIVISION FILING NO. 1 COLORADO SPRINGS

PRELIMINARY UTILITY AND

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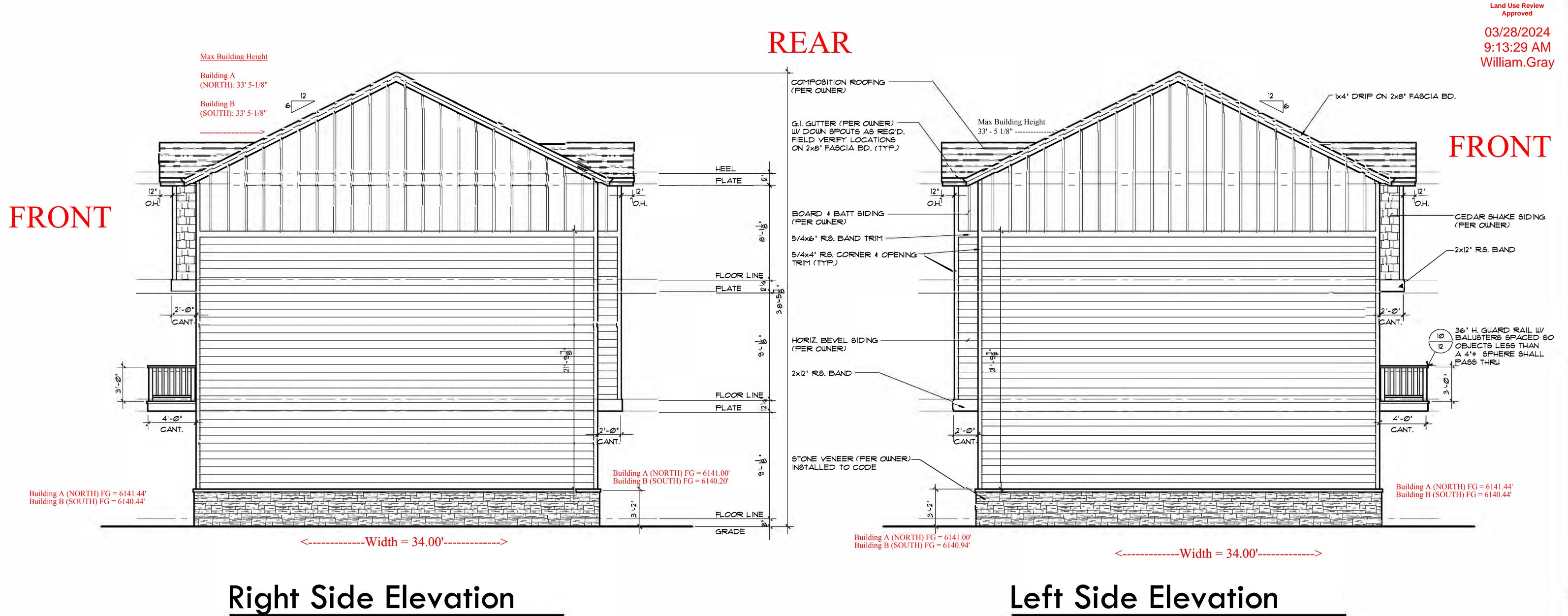
COLORADO OLYMPIC CITY **USA Land Use Review** 03/28/2024 9:13:29 AM William.Gray

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City File No: DEPN-22-0083

PLAN NUMBER: F-628



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COLORADO SPRINGS PLAN LICEN 820 Ranch Copyright PLAN NUMBER : F-628

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

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Rear Elevation
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|----------|---|------------------|-----------|--|---|--|
|          | 5 | DRAWN BY: CFB    | 8-14      | Bruinier & associates, inc.                | 820 Rancho Santa Fe Point, Colorado Springs, CO 80909 | L.M. Bruinier & Assoc. Inc. an Oregon Corporation, is strictly prohibited by law, under the FEI COPYRIGHT ACT TITLE XVII.  |
| IUMBER : | 1 | снескер вт : ДДШ |           | building designers 503-246-3022            | Copyriaht www.houseplans.pro                          | WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SC<br>DIMENSIONS: CONTRACTORS SHALL VERIFY, AND BE RESPONSIBLE FOR ALL DIMENSIONS  |
|          | 3 | DATE 1/2Ø21      |           | 1304 SW BERTHA BLVD. PORTLAND OREGON 97219 |   | CONDITIONS ON THE JOB AND THIS OFFICE MUST BE NOTIFIED OF ANY VARIATIONS FROM DIMENSIONS AND CONDITIONS SHOWN BY THESE DRAWINGS.   |

#### GENERAL SITE NOTES

- THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES, AS SHOWN ON THESE PLANS, IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED UPON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE LOCAL UTILITY LOCATION CENTER AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATIONS OF THE UTILITIES. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL VERIFY PERTINENT LOCATIONS AND ELEVATIONS, ESPECIALLY AT CONNECTION POINTS AND AT POTENTIAL UTILITY CONFLICTS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES THAT CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FOR ALL APPLICABLE AGENCIES.
- ALL MATERIALS, WORKMANSHIP, AND CONSTRUCTION OF PUBLIC IMPROVEMENTS SHALL MEET OR EXCEED THE STANDARDS AND SPECIFICATIONS SET FORTH IN CITY OF COLORADO SPRINGS STANDARDS AND SPECIFICATIONS AND APPLICABLE STATE AND FEDERAL REGULATIONS. WHERE THERE IS CONFLICT BETWEEN THESE PLANS AND THE SPECIFICATIONS, OR ANY APPLICABLE STANDARDS, THE HIGHER QUALITY STANDARD SHALL APPLY. ALL WORK SHALL BE INSPECTED AND APPROVED BY THE APPROPRIATE GOVERNING AGENCIES.
- THE CONTRACTOR SHALL HAVE ONE (1) SIGNED COPY OF THE APPROVED CONSTRUCTION DOCUMENTS, ONE (1) COPY OF THE APPROPRIATE STANDARDS AND SPECIFICATIONS, AND A COPY OF ANY PERMITS AND EXTENSION AGREEMENTS NEEDED FOR THE JOB, ON-SITE AT ALL TIMES.
- ALL REFERENCES TO ANY PUBLISHED STANDARDS SHALL REFER TO THE LATEST REVISION OF SAID STANDARD, UNLESS
- 6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING ROADWAYS FREE AND CLEAR OF ALL CONSTRUCTION DEBRIS TRACKED FROM THE SITE.
- CONTRACTOR RESPONSIBLE FOR COORDINATING AND INSTALLING ALL SLEEVING REQUIRED FOR IRRIGATION CONSTRUCTION. COORDINATE WITH GENERAL CONTRACTOR.

#### WATER WISE NOTE

The City of Colorado Springs has adopted permanent water-wise regulations at the start of 2020 which will affect the overall operation of the irrigation system.

- From May 1 to October 15, sprinklers can be operated before 10 a.m. and after 6 p.m.
- Watering is limited to three days a week (Drip irrigation is allowed at any time).
- Establishment permits are required from Colorado Springs Utilities for customers who need to temporarily water more than three days a week to establish new landscapes.
- Allocation plans are available for customers who need more watering schedule flexibility from Colorado Springs Utilities.

#### IRRIGATION SYSTEM DESCRIPTION

SITE IRRIGATION SYSTEM PROVIDED BY A FULLY AUTOMATED SPRINKLER SYSTEM CONSISTING OF DRIP IN PLANTING BEDS. ALL ZONES TO BE OPERATED FROM A SINGLE CONTROLLER LOCATED PER PLAN. COORDINATE INSTALLATION OF ALL IRRIGATION COMPONENTS WITH OWNERS REPRESENTATIVE AND OTHER TRADES. BALL VALVES SHALL BE PROVIDED BEFORE EACH ZONE VALVE FOR SYSTEM MAINTENANCE. POTABLE WATER SHALL BE USED FOR ALL SITE IRRIGATION. RAINBIRD EQUIPMENT SHALL BE INSTALLED UNLESS OTHERWISE NOTED PER PLAN. ANY DEVIATION FROM THIS PLAN SHALL BE APPROVED BY LANDSCAPE ARCHITECT OR OWNER.

REFER TO FLOW CHART FOR MINIMUM REQUIRED PRESSURE AT IRRIGATION POINT OF CONNECTION. VERIFY PRIOR TO IRRIGATION COMPONENT INSTALLATION.

#### DRIP SYSTEM NOTE

ALL PLANT MATERIAL SHALL RECEIVE DRIP LINE TUBING WITH EMITTERS PER DETAILS AND NOTES. FOR SYSTEM FLUSHING INSTALL FLUSH CAP AND THE END OF EACH ZONED DRIP LINE RUN AT LOWEST POINT OF LANDSCAPE AREA. INSTALL SLEEVES UNDER ALL PAVING AS REQUIRED FOR DRIP LINE. REFER TO LEGEND.

#### Cedar Fence Existing 3' INSTALL FLUSH CAP AT END OF DRIP ZONE. Wire Fence TYPICAL ONE FOR EACH ZONE. Replace with 6' Cedar Fence PROPOSED .6" TAP B 5.49LF 6" .04% MIN. 'S @ 100' '50.04 W "11'80°00 8 CONC. C&G RANCHO SANTA FE POINT POINT OF CONNECTION. VERIFY PRESSURE S' SIDEWALK (NEW) 4----INSTALL 3/4" COPPER LINE TO EXTERIOR Existing 6' Cedar Fence **INSTALL 3/4" COPPER LINE TO EXTERIOR** BELOW GRADE WITH DRAIN AT END OF TO REMAIN BELOW GRADE WITH DRAIN AT END OF VALVE MANIFOLD 11.80 VALVE MANIFOLD 3/4"

#### **IRRIGATION LEGEND - LOT 1**

3/4" POINT OF CONNECTION: CONTRACTOR TO VERIFY IN FIELD PRIOR TO INSTALLATION. COORDINATE WITH CITY UTILITIES AND GENERAL CONTRACTOR FOR LOCATION.

BACKFLOW PREVENTION DEVICE FEBCO 3/4" 825YA W/BALL VALVE AND DRAIN OR FEBCO 795, 1" DIA. AT EXTERIOR 12" ABOVE HIGHEST ZONE. INSTALL PER MANUFACTURE RECOMMENDATIONS

IRRIGATION CONTROLLER - RAINBIRD ESP-TM2-INDOOR MOUNT

INSTALL PER MANUFACTURE RECOMMENDATIONS

RAIN SENSOR: WIRELESS WR2

(INSTALL PER MANUFACTURE RECOMMENDATIONS)

RAINBIRD DV SERIES ELECTRIC REMOTE CONTROL VALVE SIZE AS NOTED AT EACH ZONE.

RAINBIRD REMOTE CONTROL DRIP VALVE ASSEMBLY KIT RAINBIRD XCZ-LF-075. SEE PLAN

MANIFOLD DRAIN IN 6" ROUND BOX WITH GRAVEL. 1" DIA. PVC BALL VALVE.

RAINBIRD 1806 SAM-PRS SERIES POP-UP SPRAY HEAD- R-VAN 24 SERIES OPERATING PRESSURE- 45 PSI RADIUS: 17'-24' NOZZLES: 15Q-.84 GPM, 15H-1.68 GPM, 15F-3.48 GPM

MAINLINE PIPE FOR MAINFOLD- CLASS 200 PVC PIPE (1" DIA. UNLESS OTHERWISE NOTED)

LATERAL PIPE- CLASS 200 PVC PIPE (1" DIA. UNLESS OTHERWISE NOTED)

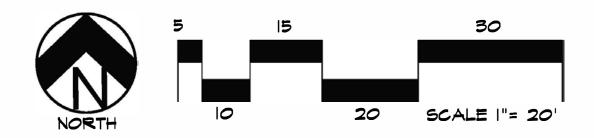
CLASS 200 PVC PIPE FOR SLEEVING \_\_\_\_\_ PIPE SLEEVE SIZE (SEE PLAN) LAST VALVE ---- ZONE # - GPM DISCHARGE -REMOTE CONTROL VALVE SIZE DRIP IRRIGATION LATERAL PIPE 100/80 PSI POLYETHYLENE PIPE: 3/4" DIAMETER

DRIP LINE TUBING: CENTENNIAL 3/4" or 1/2" DIAMETER (FOR REFERENCE ONLY NOT LENGTH) USED IN PLANTING BEDS FOR SHRUBS AND TREES - ROUTE ACCORDINGLY TO PLANT MATERIAL

AGRIFIM 3/4" CAP MODEL CETC-34 OR 1" AS REQUIRED (INSTALL IN 6" MIN. VALVE BOX)

BURY LATERAL 10" MINIMUM DEPTH

IRRIGATION PLAN





SHALL BE 6' MINIMUM DISTANCE FROM ANY GAS OR ELECTRIC AND 10' FROM GAS MAINS RATED AT 150PSI. FOR SANITARY SEWER AND WATER MAINLINES TREES SHALL NOT BE LOCATED WITHIN EASEMENTS AND WITHIN 15' OF ANY MAINLINE. ANY CONFLICT BETWEEN TREE LOCATIONS AND UTILITIES SHOWN ON PLANS SHALL BE RESOLVED WITH GENERAL CONTRACTOR PRIOR TO PLANTING. ALL FLECTRICAL VALUES AND TRANSFORMERS SHALL BE KEPT CLEAR FROM PLANT MATERIAL PER COLORADO SPRINGS UTILITIES GUIDELINES "LANDSCAPING AROUND ELECTRICAL EQUIPMENT". SEE COLORADO SPRINGS

#### **DOCUMENT NOTE**

IRRESPECTIVE OF ANY OTHER TERM IN THIS DOCUMENT, LANDSCAPE ARCHITECT SHALL NOT CONTROL OR BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SCHEDULES, SEQUENCES OR PROCEDURES, OR FOR CONSTRUCTION SAFETY OR ANY OTHER RELATED PROGRAMS, OR FOR ANOTHER PARTIES' ERRORS OR OMISSIONS OR FOR

CITY FILE NO. DEPN-22-0083

1068-22 ORIGINAL DATE 3-8-22 DRAWN BY JM DESCRIPTION **IRRIGATION PLAN** SHEET NO. 7 of 13

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ESIGN

GROU

#### IRRIGATION NOTES

COORDINATE ALL UNDERGROUND UTILITY LOCATIONS PRIOR TO ANY DIGGING ON SITE. ALL MATERIALS AND INSTALLATION PRACTICES SHALL BE IN COMPLIANCE WITH LOCAL CODES. CALL 811 FOR UTILITY LOCATES.

CONTRACTOR IS RESPONSIBLE FOR INSTALLING ALL IRRIGATION COMPONENTS SHOWN ON THE PLAN. ANY DEVIATIONS FROM THIS PLAN ARE TO BE APPROVED BY OWNER'S REPRESENTATIVE AND/OR LANDSCAPE ARCHITECT. DEVIATIONS FROM THE APPROVED PLAN SHALL REQUIRE LANDSCAPE ARCHITECT APPROVAL.

THE IRRIGATION SYSTEM IS TO RUN OFF 3/4" METERED TAP AT THE LOCATION INDICATED FROM THE BUILDING DOMESTIC SUPPLY AS SHOWN. COORDINATE WITH OWNER'S REPRESENTATIVE AND OTHER TRADES TO GET WATER AT LOCATION SHOWN. COORDINATE WITH CITY WATER TO INSURE PROPER METER INSTALLATION.

THE SYSTEM CONTROLLERS SHALL BE LOCATED AS SHOWN. COORDINATE LOCATION OF CONTROLLER AND RAIN SENSOR WITH OWNER. CONNECT CONTROLLER TO POWER SUPPLY AND COORDINATED WITH OWNER. CONNECT CONTROLLER TO ZONE VALVES, RAIN SENSOR, AND GROUNDING PER MANUFACTURE'S INSTRUCTIONS.

CONTRACTOR IS RESPONSIBLE FOR ALL IRRIGATION SLEEVING. SLEEVING FOR LATERAL LINES TO BE 12" BELOW TOP OF GRADE AND/OR BELOW THE BOTTOM OF PAVING. MAINLINE SLEEVING TO BE 18" BELOW TOP OF GRADE AND/OR BELOW THE BOTTOM OF PAVING. ALL SLEEVING TO EXTEND 3" BEYOND EDGE OF CONCRETE OR ASPHALT. ENDS OF SLEEVING TO BE SECURELY COVERED AFTER INSTALLATION. SLEEVE LOCATIONS TO BE CLEARLY MARKED WITH PAINTED STAKES OR PVC. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL SLEEVING LOCATIONS PRIOR TO CONSTRUCTION AND INSTALL ANY

ALL SPRINKLER HEADS SHALL INSTALLED WITH TOP OF HEADS FLUSH WITH SURROUNDING FINAL GRADE. CONTRACTOR SHALL ADJUST EACH SPRINKLER HEAD TO PROVIDE OPTIMAL COVERAGE. OVERSPRAY ONTO PAVEMENT OR WALLS IS TO BE PREVENTED. CONTRACTOR TO ADJUST AND SELECT NOZZLES TO PROVIDE UNIFORM COVERAGE. PROVIDE PRESSURE COMPENSATING NOZZLES OR SCREENS IF UNIFORM PRESSURE CANNOT BE ACHIEVED BY ADJUSTING PRESSURE AT VALVES.

IRRIGATION PLAN IS DIAGRAMMATIC. ANY COMPONENTS SHOWN ON PLAN OUTSIDE OF LANDSCAPE ARE SHOWN FOR CLARITY ONLY. USE ONLY STANDARD FITTINGS. MAINLINE PIPING DEPTH TO BE 18". LATERAL LINE DEPTH TO BE 12". DRIP LINE TO BE SECURED AT FINAL SOIL GRADE.

CONTRACTOR IS TO INSTALL IRRIGATION WIRE BETWEEN CONTROLLER AND ELECTRIC VALVES. INSTALL TWO EXTRA WIRES RUNNING FROM CONTROLLER ALONG MAINLINE IN EACH DIRECTION FROM THE CONTROLLER FOR TROUBLE SHOOTING OR FUTURE ADDITIONS. WIRE SHALL BE SOLID COPPER #14 PE IRRIGATION CONTROL WIRE. CONNECTIONS SHALL BE MADE WITHIN ENCLOSURES ONLY USING 3M BRAND DBY AND DBR CONNECTORS. NO BURIED SPLICES PERMITTED.

NOTIFY OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES BETWEEN PLAN DRAWINGS AND FIELD CONDITIONS PRIOR TO INSTALLATION OF ANY IRRIGATION COMPONENTS.

HIGHER GROUND DESIGNS, INC. (HGD) PREPARED THIS PLAN BASED ON EXISTING CONDITIONS AND SITE PLAN BY OTHERS. HDG DOES NOT RECOMMEND SPRAY/ROTOR OPERATION OR ROTOR/SPRAY OVER SPRAY WITHIN 5' OF ANY BUILDING. HGD ASSUMES NO LIABILITY FOR ANY WATER DAMAGE ON THIS SITE.

ALL DRIP POLYETHYLENE LATERALS AND DRIP TUBING FITTINGS SHALL BE RIBBED PLASTIC WITH OETIKER BRAND CLAMPS. THE END OF EACH DRIP LINE TO RECEIVE A DRIP FLUSH CAP PER DETAIL.

INSTALL VALVE BOXES IN PLANTER AND ROCK AREAS WHEN POSSIBLE. DO NOT SET VALVE BOXES IN TURF OR SEEDED AREAS UNLESS UNAVOIDABLE.

#### IRRIGATION SYSTEM MATERIALS

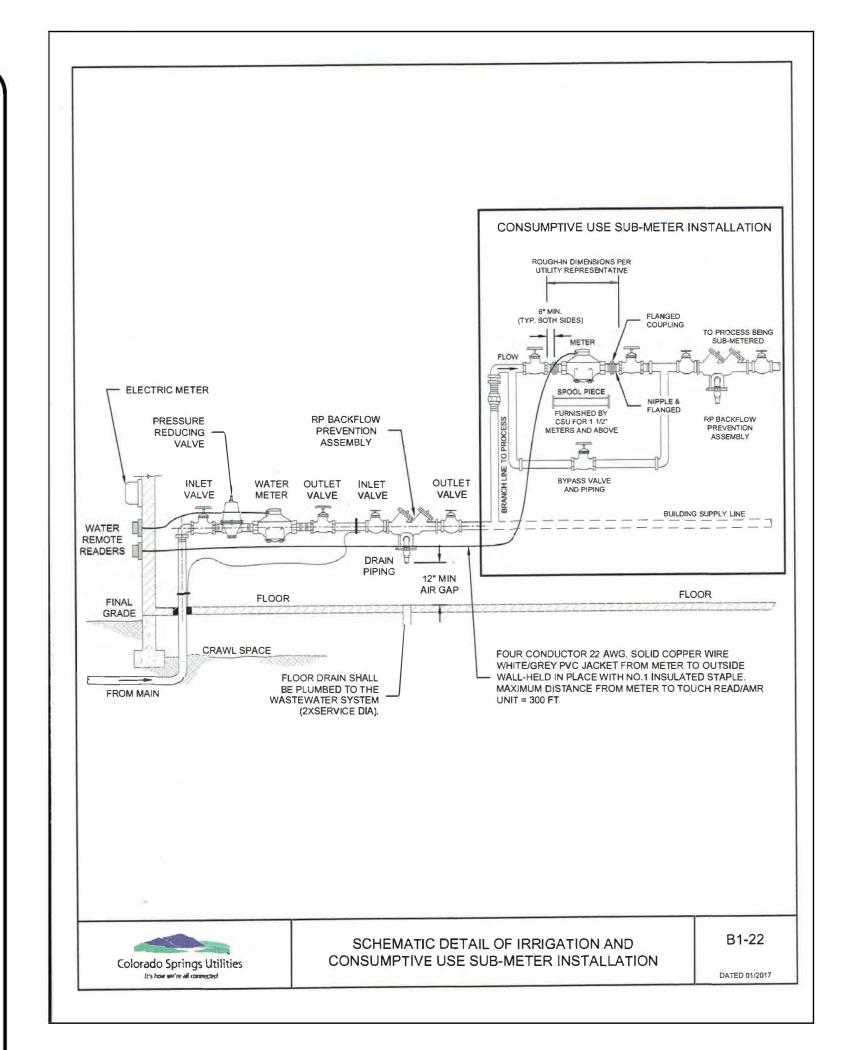
- PRESSURE SUPPLY LINE (FROM POINT OF CONNECTION THROUGH BACKFLOW PREVENTION UNIT) TYPE "K" RIGID COPPER. PRESSURE SUPPLY LINES (DOWNSTREAM OF BACKFLOW PREVENTION UNITS) - CLASS 200 PVC SOLVENT WELD (1" - 2 1/2") SOLVENT WELD PIPE - MANUFACTURED FROM VIRGIN POLYVINYL CHLORIDE (PVC) COMPOUND IN ACCORDANCE WITH ASTM D2241 AND ASTM D1784; CELL CLASSIFICATION 12454-B, TYPE 1, GRADE 1. FITTINGS - STANDARD WRIGHT, SCHEDULE 40, INJECTION MOLDED PVC; COMPLYING WITH ASTM D1784 AND D2466, CELL CLASSIFICATION 12454-B
- THREADS INJECTION MOLDED TYPE (WHERE REQUIRED).
- TEES AND ELLS SIDE GATED. THREADED NIPPLES ASTM D2464, SCHEDULE 80 WITH MOLDED THREADS ALL PVC MALE THREADED FITTINGS AND NIPPLES, EXCLUDING MARLEX FITTINGS, SHALL RECEIVE WRAPPING OF TEFLON TAPE
- JOINT CEMENT AND PRIMER TYPE AS RECOMMENDED BY MANUFACTURER OF PIPE AND FITTINGS.
- FLEXIBLE PLASTIC PIPE MANUFACTURED FROM VIRGIN POLYETHYLENE IN ACCORDANCE WITH ASTM D2239, WITH A HYDROSTATIC DESIGN STRESS OF 630 PSI AND DESIGNATED AS PE 2306. FITTINGS - INSERT TYPE MANUFACTURED IN ACCORDANCE WITH ASTM D2609; PVC TYPE 1 CELLCLASSIFICATION 12454-B.

#### IRRIGATION SYSTEM INSTALLATION

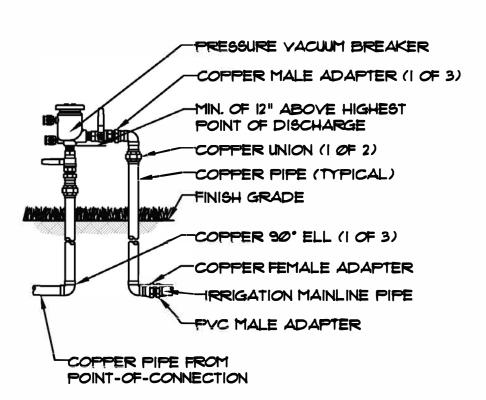
- BACKFILLING DO NOT BEGIN BACKFILLING OPERATIONS UNTIL REQUIRED SYSTEM TESTS HAVE BEEN COMPLETED. BACKFILL SHALL NOT BE DONE IN FREEZING WEATHER EXCEPT WITH REVIEW BY CONSULTANT. TRENCHES SHALL BE FINISH GRADED PRIOR TO WALK-THROUGH OF SYSTEM BY OWNER/CONSULTANT.
- EXCAVATED MATERIAL IS GENERALLY CONSIDERED SATISFACTORY FOR BACKFILL PURPOSES. BACKFILL MATERIAL SHALL BE FREE OF RUBBISH, VEGETABLE MATTER, FROZEN MATERIALS, AND STONES LARGER THAN 1 INCH IN MAXIMUM DIMENSION. DO NOT MIX SUBSOIL WITH TOPSOIL. MATERIAL NOT SUITABLE FOR BACKFILL SHALL BE HAULED AWAY. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING SUITABLE BACKFILL IF EXCAVATED MATERIAL IS UNACCEPTABLE OR NOT SUFFICIENT TO MEET BACKFILL, COMPACTION, AND FINAL GRADE REQUIREMENTS.
- DO NOT LEAVE TRENCHES OPEN FOR A PERIOD OF MORE THAN 48 HOURS. OPEN EXCAVATIONS SHALL BE PROTECTED IN ACCORDANCE WITH OSHA REGULATIONS. COMPACT BACKFILL TO 90% MAXIMUM DENSITY, DETERMINED IN ACCORDANCE WITH ASTM D155-7. MECHANICAL TAMPING IS PROHIBITED WITHIN 20'-0" OF BUILDING OR FOUNDATION WALLS.

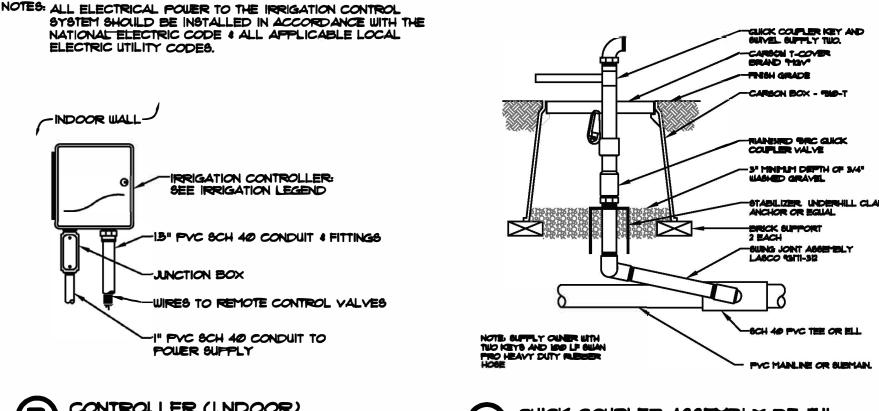
#### EXECUTION

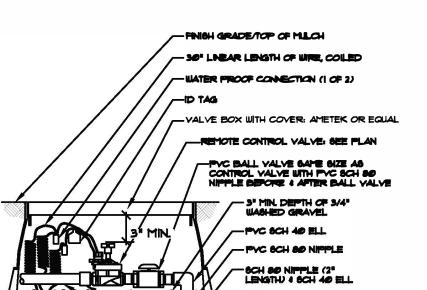
- CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF ANY SOIL RETENTION COVERING THAT WOULD INTERFERE WITH THE PROPER INSTALLATION OF THE IRRIGATION SYSTEM
- CONTRACTOR WILL BE HELD RESPONSIBLE FOR COORDINATION BETWEEN LANDSCAPE AND IRRIGATION SYSTEM INSTALLATION. LANDSCAPE MATERIAL LOCATIONS SHOWN ON THE LANDSCAPE PLAN SHALL TAKE PRECEDENCE OVER THE IRRIGATION SYSTEM EQUIPMENT LOCATIONS. IF IRRIGATION EQUIPMENT IS INSTALLED IN CONFLICT WITH THE LANDSCAPE MATERIAL LOCATIONS SHOWN ON THE LANDSCAPE PLAN, THE CONTRACTOR WILL BE REQUIRED TO RELOCATE THE IRRIGATION EQUIPMENT, AS NECESSARY, AT CONTRACTOR'S EXPENSE.
- CONTRACTOR IS RESPONSIBLE TO NOTIFY CONSULTANT OF ANY FIELD CONDITIONS THAT VARY FROM THE CONDITIONS SHOWN ON THE IRRIGATION CONSTRUCTION DOCUMENTS. IF CONTRACTOR FAILS TO NOTIFY CONSULTANT OF THESE CONDITIONS, CONTRACTOR WILL BE HELD RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH SYSTEM ADJUSTMENTS REQUIRED DUE TO THE CHANGE IN FIELD CONDITIONS.
- STATIC PRESSURE VERIFICATION CONTRACTOR SHALL FIELD VERIFY THE STATIC PRESSURE AT THE PROJECT SITE, PRIOR TO COMMENCING WORK OR ORDERING IRRIGATION MATERIALS. IF CONTRACTOR FAILS TO VERIFY STATIC WATER PRESSURE PRIOR TO COMMENCING WORK OR ORDERING IRRIGATION MATERIALS, CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR ALL COSTS REQUIRED TO MAKE SYSTEM OPERATIONAL AND THE COSTS REQUIRED TO REPLACE ANY DAMAGED LANDSCAPE MATERIAL. DAMAGE SHALL INCLUDE ALL REQUIRED MATERIAL COSTS, DESIGN COSTS AND PLANT REPLACEMENT COSTS.
- INSPECTION: EXAMINE AREAS AND CONDITIONS UNDER WHICH WORK OF THIS SECTION IS TO BE PERFORMED. DO NOT PROCEED WITH WORK UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.



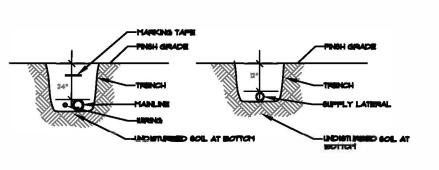
NOTES: • INSTALL BACKFLOW PREVENTER AS REQUIRED BY LOCAL CODES & HEALTH DEPARTMENT. VERIFY LOCAL REQUIREMENTS PRIOR TO INSTALLATION.



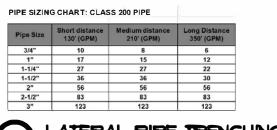


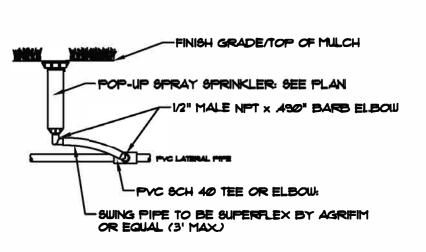




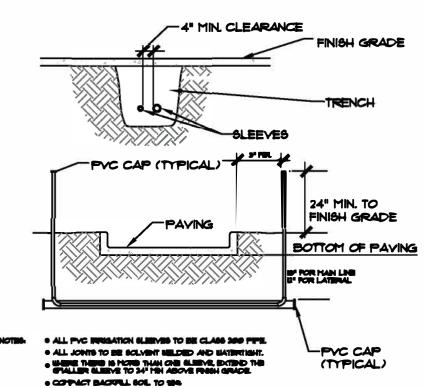


NOTALL FROM NO LESS THAN 2" LATERAL HORIZONTAL CLEARINGE AND 6" VERTICAL RE CRUSSET WATER LINE HARRONS TAPE WITH LABEL "BURED WATER PIPE. INSTALL ALONG RENCH AT CENTER OF PIPMA, AP DEPTH, AND EXPORE END AT ALL BOUITMENT. IN ROCKY GOLL ENVIRGINENTS INSTALL 3"-6" GAND BED EVALUATE EXISTING SOIL FOR BACKFILL. IF SOIL IS UNSUITABLE REMOVE AND REPLACE WITH MITTABLE SOIL FOR PROPER COMPACTION.









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FINISH GRADE -CONCRETE EDGE -GEAR DRIVEN ROTOR: SEE PLAN -PVC 8CH 80 NIPPLE (LENGTH A6 REQUIRED. PVC SWING ARM TO LETTER SOM PVC 8CH 40 TEE OR EL PVC SCH 80 NIPPLE (LENGTH AS REQUIRED)

NOTES: • A SWING PIPE MAY BE USED WITH FLOWS LESS THAN 4 GFM.





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1068-22 REVISIONS ORIGINAL DATE 3-8-22 DRAWN BY JM DESCRIPTION IRRIGATION DETAILS SHEET NO. 8 of 13

ESIGN

Know what's below. Call before you dig.

VERIFY LOCATION AND DEPTH OF ALL UNDERGROUND UTILITIES PRIOR TO START OF WORK. CALL 811 FOR UTILITY LOCATES. TREE TRUNK PLACEMENT SHALL BE 6' MINIMUM DISTANCE FROM ANY GAS OR ELECTRIC AND 10' FROM GAS MAINS RATED AT 150PSI. FOR SANITARY SEWER AND WATER MAINLINES TREES SHALL NOT BE LOCATED WITHIN EASEMENTS AND WITHIN 15' OF ANY MAINLINE. ANY CONFLICT BETWEEN TREE LOCATIONS AND UTILITIES SHOWN ON PLANS SHALL BE RESOLVED WITH GENERAL CONTRACTOR PRIOR TO PLANTING. ALL FLECTRICAL VALUETS AND TRANSFORMERS SHALL BE KEPT CLEAR FROM PLANT MATERIAL PER COLORADO SPRINGS UTILITIES GUIDELINES "LANDSCAPING AROUND ELECTRICAL EQUIPMENT". SEE COLORADO SPRINGS UTILITIES CONSTRUCTION STANDARD DRAWINGS 18-302 FOR SPECIFIC CLEARANCE REQUIREMENTS. ALL SHRUBS TO BE LOCATED 3' CLEAR OF ALL FIRE

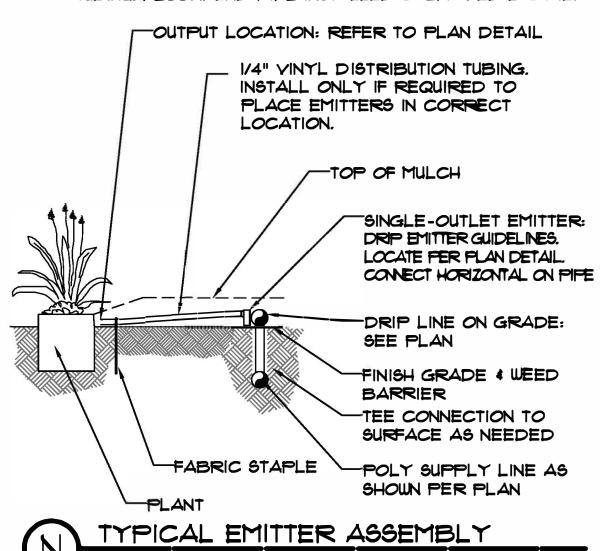
#### **DOCUMENT NOTE**

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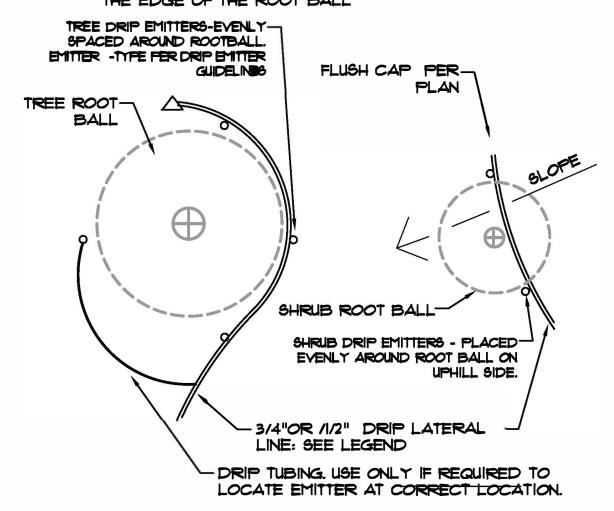
CITY FILE NO. DEPN-22-0083

# DRIP IRRIGATION ZONE CONTROL VALVE

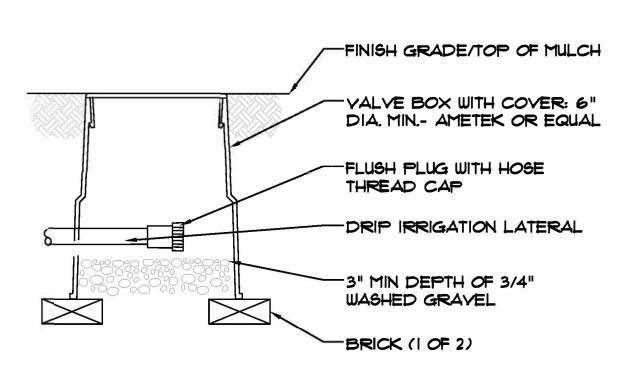
NOTES: • DRIP PIPING IS TO BE STAKED TO GROUND SURFACE EVERY 4-6'. MULCH IS TO BE INSTALLED TO COVER ALL PIPING AND TUBING. RECOMMEND PIPE INSTALLED OVER WEED BARRIER.



NOTES: DRIP EMITTERS SHALL BE PLACED APPROX. 2" OUTSIDE THE EDGE OF THE ROOT BALL







NOTES: DRIP FLUSH CAP AND BOX SHALL BE INSTALLED AT THE END OF EACH DRIP SUPPLY LINE AT ENDS.



#### **FLOW CHART**

|          | PROJECT NAME           | 2610 EAST DALE STREET   | CALC. BY                                | JM                       |   | T T      |
|----------|------------------------|-------------------------|---|--------------------------|---|----------|
|          | JOB #                  |                         | • · · · · · · · · · · · · · · · · · · · | 11/18/2022               |   |          |
|          | METER SIZE             | 0.75                    | ZONE                                    |                          |   | i        |
|          | SERVICE LINE           | 0.75                    |   | ROTATOR                  |   |          |
|          | METER ELEVATION        | 100                     | NOZZLE                                  | I                        |   |          |
|          | METER LEEVATION        | 100                     |   | MEDIUM                   |   |          |
|          |                        |                         | PIPE SIZING                             | I MEDION                 |   | -        |
|          |                        |                         |   |                          |   |          |
| Α        | VAILABLE PSI AT P.O.C. | 80                      | SYSTEM CALC                             | HIGH GPM ZONE            |   |          |
|          |                        |                         |   |                          | NAME OF THE PARTY |          |
|          | PE SIZE                | TYPE OF PIPE            | LATERAL LINE                            | GPM                      | DISTANCE  | PSI LOSS |
| 1        |                        | CLASS 200               |   | 4                        | 40  | 0.12     |
| 2        | 1.5                    | CLASS 200               |   | 4.64                     | 40  | 0.26     |
| 3        |                        | CLASS 200               |   | 4.64                     |   | 0.00     |
| 4        |                        | CLASS 200               |   | 4.64                     |   | 0.00     |
| 5        |                        | CLASS 200               |   | 4.64                     |   | 0.00     |
| 6        |                        | CLASS 200               |   | 4.64                     |   | 0.00     |
| 7        |                        | CLASS 200               |   | 4.64                     |   | 0.00     |
| 8        |                        | CLASS 200               |   | 4.64                     |   | 0.00     |
| 9        |                        | CLASS 200<br>CLASS 200  |   | 4.64                     |   | 0.00     |
| 10       |                        | CLASS 200               |   | 4.64                     |   | 0.00     |
| 11<br>12 |                        | CLASS 200               |   | 4.64<br>4.64             |   | 0.00     |
| 13       |                        | CLASS 200               |   | 4.64                     |   | 0.00     |
| 14       |                        | CLASS 200               |   | 4.64                     | 1   | 0.00     |
| 15       |                        | CLASS 200               |   | 4.64                     |   | 0.00     |
| 16       | :                      | CLASS 200               |   | 4.64                     | 1   | 0.00     |
| 17       |                        | CLASS 200               |   | 4.64                     |   | 0.00     |
| 18       |                        | CLASS 200               |   | 4.64                     | 1   | 0.00     |
| 19       |                        | CLASS 200               |   | 4.64                     | 1   | 0.00     |
| 20       |                        | CLASS 200               |   | 4.64                     | 1   | 0.00     |
| 21       | -                      | CLASS 200               |   | 4.64                     |   | 0.00     |
| 2IA      |                        | TOTAL LATERAL LENG      | TH                                      | 7.57                     | 80  | 0.00     |
|          |                        |                         |   |                          |   | -        |
| 22       |                        | TOTAL LATERAL PSI L     | OSS                                     |                          |   | 0.4      |
| 23       | 100                    | ELEVATION OF RCV        |   |                          |   |          |
| 24       | 100                    | HIGHEST HEAD ON ZONE    |   |                          |   | i i      |
| 25       | 0                      | PSI GAIN / LOSS RCV TO  | HIGH HEAD                               |                          |   | 0.0      |
| 26       |                        | ELEV PSI GAIN LOSS FROM |   |                          |   | 0.0      |
|          | ZE OF RCV 2"           | REMOTE CONTROL VALVE L  |   |                          |   | 5.0      |
| 28       |                        | MIN. PSI REQUIRED BY H  |   |                          |   | 45.0     |
| 29       |                        | TOTAL RCV PSI LOSS      |   |                          |   | 50.4     |
|          |                        |                         |   |                          |   |          |
|          | AIN SIZE I             | MAIN LINE PSI LOSS      |   | ENTER MAIN LINE PIPE LEN | GTH 5   | 0.10     |
| 32       |                        |                         |   |                          |   |          |
| 33       |                        | TOTAL POLLOSSES I A     | TERALS, MAIN, ELEVAT                    | ION DOV & HEAD POL       |   | 50.5     |

BACKFLOW PREV. PSI LOSS

PPER PIPE FROM POC TO BACKFLOW PREVENTOR BFP TO MAIN LINE PSI LOSS

RVICE LINE PSI LOSS (FROM THE MAIN IN THE STREET TO THE WATER METER 35'+ -)

42 MINIMUM OPERATING PSI (FOR THIS SYSTEM TO WORK PROPERLY AT THE POC)

**TOTAL IRRIGATED AREA: 6,405 SF** 

TER METER SIZE I WATER METER PSI LOSS

TAL OF ALL PSI LOSSES BEFORE 5% MARGIN

#### IRRIGATION SCHEDULE NOTES

THE SCHEDULING TIMES ARE BASED ON AN ET RATE .19 AND AN IRRIGATION EFFICIENCY OF 85%. TIMES SHALL BE ADJUSTED ACCORDINGLY FOR SEASONAL CHANGES. RAIN SENSOR SHALL BE SET FOR AUTOMATIC SHUT OFF AT 1/2" RAINFALL.

THE RUN TIMES ARE MINUTES PER DAY. EACH VEGETATION TYPE HAS A DIFFERENT WEEKLY WATER REQUIREMENT THAT SHOULD BE FULFILLED BY A DIFFERENT NUMBER OF SCHEDULED RUN TIMES.

NEWLY PLANTED TURF AREAS SHOULD BE IRRIGATED ON A DAILY BASIS THE FIRST GROWING SEASON. DURING THE SECOND SEASON, TURF AREAS SHOULD BE IRRIGATED EVERY OTHER DAY. ESTABLISHED BLUE GRASS TURF AREAS SHOULD BE IRRIGATED EVERY OTHER DAY. ESTABLISHED FESCUE GRASS AND NATIVE GRASS TURF AREAS SHOULD BE IRRIGATED EVERY THIRD DAY.

NEW LANDSCAPE PLANTS SHALL BE IRRIGATED EVERY OTHER DAY FOR THE FIRST GROWING SEASON. DURING ALL SUBSEQUENT SEASONS LANDSCAPE PLANTS SHALL BE IRRIGATED EVERY THIRD DAY.

THE RUN TIMES ARE INTENDED FOR SUMMER WATERING APPLICATIONS. RUN TIMES SHALL BE ADJUSTED FOR SEASONAL REQUIREMENTS. SPRING RUN TIMES SHALL BE SET AT 85% OF SUMMER RUN TIMES. FALL RUN TIMES. SHALL BE SET AT 80% OF SUMMER RUN TIMES.

AN ESTABLISHMENT PERMIT AND POSSIBLY AN ALLOCATION PLAN SHALL BE REQUIRED FROM COLORADO SPRINGS UTILITIES.

#### DRIP EMITTERS

DRIP EMITTERS FOR TREES, SHRUBS, ORNAMENTAL GRASSES AND PERENNIALS SHALL BE INSTALLED PER DETAILS ON THIS SHEET. CONTRACTOR IS RESPONSIBLE FOR ADJUSTING EMITTER QUANTITY SO THAT EACH PLANT TYPE RECEIVES THE CORRECT WATER REQUIREMENT BASED ON ZONE RUN TIME AND PLANT WATER REQUIREMENTS. SEE DRIP EMITTER GUIDELINES. EXCEPT FOR PERENNIALS ALL SHRUBS SHALL RECEIVE TWO EMITTERS, AND TREES SHALL RECEIVE MINIMUM FOUR EMITTERS.

| DRIP EMITTER GUIDELINES   |  |                                  |  |  |  |  |  |
|---|--|----------------------------------|--|--|--|--|--|
| PLANT MATERIAL  | EMITTER QUANTITY   | OUTPUT (GPH)                     |  |  |  |  |  |
| 1 GAL. PERENNIAL (COLOR) 1 GAL. ORNAMENTAL GRASS 5 GAL. ORNAMENTAL GRASS 5 GAL. EVERGREEN SHRUB 5 GAL. DECIDUOUS SHRUB HIGH WATER DECIDUOUS SHRUB | 1 EACH5 GPH<br>2 EACH5 GPH<br>2 EACH - 1 GPH<br>2 EACH - 1 GPH<br>2 EACH - 1 GPH<br>2 EACH - 2 GPH | .5<br>1<br>2<br>2<br>2<br>2<br>4 |  |  |  |  |  |
| 6' B&B EVERGREEN TREE<br>HIGH WATER EVERGREEN TREE<br>1 1/2" CAL. DECIDUOUS TREE<br>HIGH WATER DECIDUOUS TREE                                     | 4 EACH - 1 GPH<br>4 EACH - 2 GPH<br>4 EACH - 1 GPH<br>4 EACH - 2 GPH                               | 4<br>8<br>4<br>8                 |  |  |  |  |  |



#### **UTILITIES NOTE**

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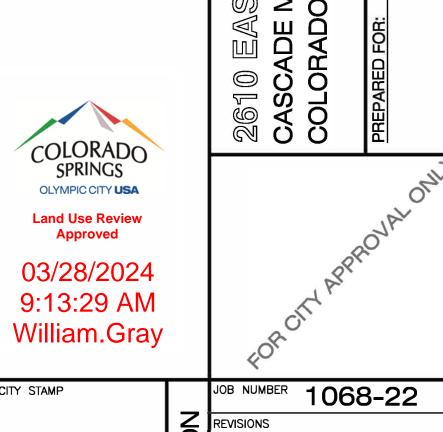
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CITY FILE NO. DEPN-22-0083



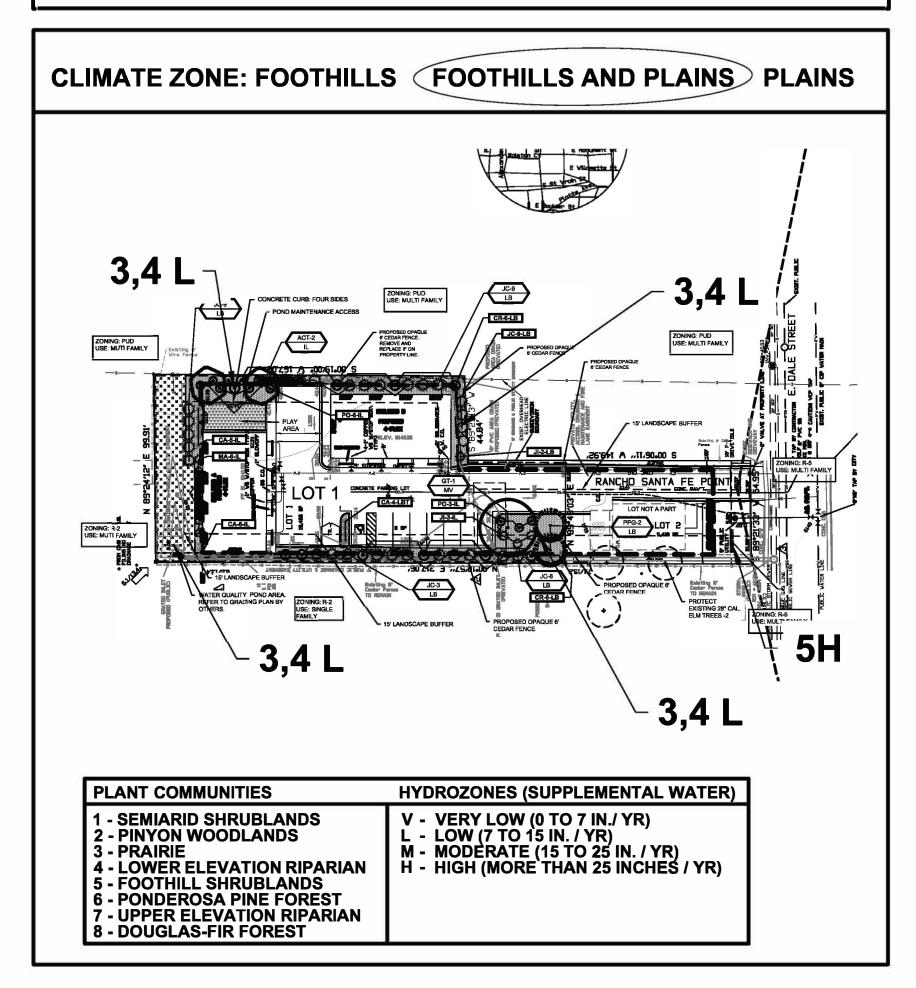
ORIGINAL DATE 3-8-22 DRAWN BY JM DESCRIPTION IRRIGATION DETAILS SHEET NO. 9 of 13 SHEET L1.7

ST DALE STRE MULTI FAMILY
SO SPRINGS, CO

DESIGNS,

GROUND

#### SCHEMATIC LANDSCAPE DIAGRAM NOT TO SCALE



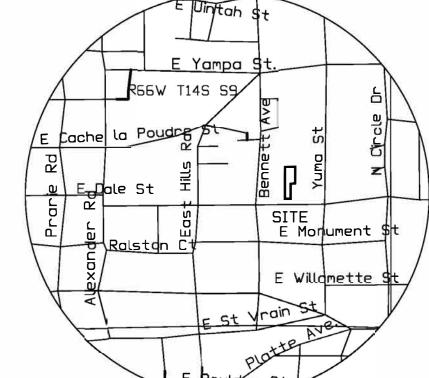
#### CITY OF COLORADO SPRINGS - LANDSCAPE CODE-LOT 1

| STREET NAME OR ZONE BOUNDARY (ELEV.)                         | STREET CLASSIFICATION                   | WIDTH (FT.)<br>REQUIPROV.             | LINEAR<br>FOOTAGE | TREE/FEET<br>REQUIRED | NO. OF TREES<br>REQUIPROVIDED |  |
|--|---|---------------------------------------|-------------------|-----------------------|-------------------------------|--|
| NOT REQUIRED: LOT 2 IS ADJACENT TO ROADWAY AND IS NOT A PART |   |                                       |                   |                       |                               |  |
|  |   |                                       |                   |                       |                               |  |
|  |   |                                       |                   |                       |                               |  |
| SHRUB SUBSTITUTES<br>REQ/PROY. (25% MAX)                     | ORNAMENTAL GRASS SUB. 2/1<br>REQ./PROV. | SETBACK PLANT ABBR<br>DENOTED ON PLAN | PERCENT GF        | ROUND PLANE<br>ROV.   |                               |  |

| MOTOR VEHICLE LO                            | 16 (MV)                                 |   |  |                                       |
|---|---|---|--|---------------------------------------|
| NO. OF VEHICLE<br>SPACES PROVIDED           | SHADE TREES (1/15 SPACES)<br>REQUIPROV. | VEHICLE LOT<br>FRONTAGE(9)                | LENGTH OF FRONTAGE (FT)<br>(EXCLUDING DRIVEWAYS) | 2/3 LENGTH<br>OF FRONTAGE (FT)        |
| 8   | 1/1                                     | PRONTAGE                                  | Ø LF   | Ø LF                                  |
| (15) MIN. 3' SCREENING<br>PLANTS REQUIPROV. | EVERGREEN PLANTS<br>REQ. 50%/PROV.      | LENGTH OF SCREENING<br>WALL OR BERM PROV. | VEHICLE LOT PLANT<br>ABBR. ON PLAN               | PERCENT GROUND PLANE<br>EG. REQ/PROV. |
| 010   | 0/0                                     | Ø LF                                      | MV   | 75%/75%                               |

|   | . LANDSCAPE AREA INCLUDES ALL LANDSCAPE AREAS NOT INCLUDING SETBACKS, BUFFERS OR MOTOR VEHICLE ISLANDS. |  |  |  |  |  |  |
|---|---|--|--|--|--|--|--|
| 100% SHRUB SUBSTITUTION FOR NON-RESIDENTAL / 50% SHRUB SUBSTITUTION FOR MULTI-FAMILY. |   |  |  |  |  |  |  |
| NET SITE AREA (SF)<br>(LESS PUBLIC ROW.)  | PERCENT MINIMUM<br>INTERNAL AREA (%)  | INTERNAL AREA (SF)<br>REQUIPROV.       | INTERNAL TREES (1/500 SF)<br>(EXCLUDING DRIVEWAYS) |  |  |  |  |
| 19,466 SF   | RESIDENTIAL 15%   | 2,920 SF/3,000 SF                      | 6/3  |  |  |  |  |
| SHRUB SUBSTITUTES<br>REQ/PROY.  | ORNAMENTAL GRASS SUB.<br>REQ/PROV.  | INTERNAL PLANT ABBR<br>DENOTED ON PLAN | PERCENT GROUND PLANE<br>VEG. REQUIPROV.            |  |  |  |  |
| 30/30 FLP   | 010   | L                                      | T5%/T5%  |  |  |  |  |

|  | S AND SCREENS (LB            |  |                                   |  |
|--|------------------------------|--|-----------------------------------|--|
| STREET NAME OR<br>PROPERTY LINE (ELEV.)        | WIDTH (FT)<br>REQ/PROY.      | LINEAR<br>FOOTAGE                      | BUFFER TREES (1/20')<br>REQ/PROV. | EVERGREEN TREES<br>REQ. (50%) / PROVIDED |
| NORTH  | 15/15 FT                     | 262 LF                                 | 13/13                             | 3/5 UPRIGHT EVERGREEN                    |
| EAST   | 15/8 <b>€</b> 15 FT          | 3IT LF                                 | 16/16                             | 8/9 UPRIGHT EVERGREEN                    |
| WEST   | 15/8 € 15 FT                 | 317 LF                                 | 16/16                             | 8/9 UPRIGHT EVERGREEN                    |
| TRASH ENCLOSURE(S)                             | NA                           | NA                                     | NA                                | 3/3 (UPRIGHT EVERGREEN)                  |
| LENGTH OF 6 FT. OPAQUE<br>STRUCTURE REQUIPROV. | TREE ABBR DENOTED<br>ON PLAN | PERCENT GROUND PLANE<br>VEG. REQ/PROV. |                                   |  |
| 100  | LB                           | 15%/15%                                |                                   |  |
| 718  | LB                           | 75%/75%                                |                                   |  |
| דוצ  | LB                           | 75%/75%                                |                                   |  |
| 6' HIGH WOOD ENCLOSURE                         | LBT (SHRUB)                  | NA                                     |                                   |  |



COLORADO SPRINGS OLYMPIC CITY USA Land Use Review

Approved

**VICINITY MAP** 

#### CITY AFFIDAVIT NOTE

CONSTRUCTION OBSERVATION VISITS TO ACCURATELY COMPLETE THE AFFIDAVIT. WHEN AFFIDAVITS ARE NOT SUBMITTED FINANCIAL ASSURANCES ARE TAKEN AND HELD FOR TWO YEARS. REGARDLESS, NATIVE SEED AREAS REQUIRE A TWO YEAR ESTABLISHMENT FINANCIAL ASSURANCE.

ACCEPTABLE FIELD CHANGES INCLUDE BUT ARE NOT LIMITED TO: COMPARABLE PLANT SUBSTITUTES (I.E. APPROXIMATELY 2 EASEMENTS OR CONFLICT WITH I.E. DRAINAGE OR A UTILITY; A CHANGE IN PLANT SIZE BUT SILL MEETS CITY MINIMUM SIXE READY TO CALL OF INSPECTION AND SUBMIT AFFIDAVITS FIRST CONTACT THE CITY PLANNER OF RECORD (385-5905) AND AS NECESSARY OUR DRE OFFICE (385-5982).

#### LANDSCAPE MAINTENANCE NOTE

LANDSCAPE IMPROVEMENTS AND MAINTENANCE SHALL BE THE RESPONSIBILITY OF OWNER, AND /OR THEIR ASSIGNS.

"STREET TREES, STREETSCAPE IMPROVEMENTS, AND VEGETATION WITHIN THE CITY ROW SHALL BE MAINTAINED BY THE ABUTTING PROPERTY OWNER."

#### STANDARD IRRIGATION NOTES

THE DESIGN PROFESSIONAL OF RECORD IS TO COMPLETE THE INSPECTION AFFIDAVIT BASED ON APPROVED FINAL IRRIGATION PLAN. THIS SHOULD REQUIRE LIMITED CONSTRUCTION OBSERVATION VISITS AND FUNCTIONAL TEST OF THE SYSTEM SHALL BE PERFORMEDTO ACCURATELY COMPLETE THE AFFIDAVIT. WHEN AFFIDAVITS ARE NOT SUBMITTED FINANCIAL ASSURANCES ARE TAKEN AND HELD FOR TWO YEARS. WHEN READY TO CALL OF INSPECTION AND SUBMIT AFFIDAVITS FIRST CONTACT THE CITY PLANNER OF RECORD (719-385-5905) AND AS NECESSARY OUR

- The City of Colorado Springs has adopted permanent water-wise regulations at the start of 2020 which will affect the overall operation of the irrigation system. From May 1 to October 15, sprinklers can be operated before 10 a.m. and after 6 p.m.
- Watering is limited to three days a week (Drip irrigation is allowed at any time). • Establishment permits are required from Colorado Springs Utilities for customers who need to temporarily water more than three days a week to establish new
- Allocation plans are available for customers who need more watering schedule flexibility from Colorado Springs Utilities. For all design irrigation systems, if more than three days a week are required to provide required coverage with spray/rotor stations/valves, a Water Allocation Plan is required from Colorado

AN UNDERGROUND, AUTOMATIC, IRRIGATION SYSTEM WITH SURFACE DRIP COMPONENTS WILL BE USED TO IRRIGATE ALL PLANT MATERIAL AND A ROTOR/SPRAY SYSTEM FOR TURF AND/OR SEEDED AREAS AS REQUIRED PER PLAN AS REQUIRED. THE IRRIGATION PLAN WILL INCLUDE WATERING SCHEDULE, WATER USE, ESTABLISHMENT GUIDELINES, AND WINTER WATERING GUIDELINES. THE PROPERTY OWNER SHALL BECOME FAMILIAR WITH THESE GUIDELINES.

IF THE IRRIGATION PLAN IS NOT SUBMITTED WITH THE FINAL IT MUST BE SUBMITTED FOR REVIEW CONCURRENT WITH BUILDING PERMIT SUBMITTAL AND APPROVED PRIOR TO ISSUANCE OF A BUILDING PERMIT AND BEFORE ANY IRRIGATION CONSTRUCTION. CONTACT LANDSCAPE ARCHITECT.

# 03/28/2024 9:13:29 AM William.Gray

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DO SPRINGS, CO

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1068-22 REVISIONS ORIGINAL DATE 3-8-22 DRAWN BY JM DESCRIPTION FINAL LANDSCAPE PLAN 10 of 13 SHEET

Know what's below. Call before you dig.

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CITY FILE NO. DEPN-22-0083

#### LAYOUT NOTE

CONTRACTOR IS RESPONSIBLE FOR INSTALLING ALL LANDSCAPE SHOWN ON THIS PLAN. ANY DEVIATIONS FROM THIS PLAN ARE TO BE APPROVED BY OWNER'S REPRESENTATIVE OR LANDSCAPE ARCHITECT. DEVIATIONS FROM THE APPROVED PLAN MAY REQUIRE APPROVAL BY COLORADO SPRINGS PLANNING AND OWNER REPRESENTATIVE.

#### **ESTABLISHMENT PERMIT NOTE**

ESTABLISHMENT PERMITS ARE REQUIRED FROM COLORADO SPRINGS UTILITIES (CSU) FOR CUSTOMERS THAT NEED TO TEMPORARILY WATER MORE THAN THREE DAYS PER WEEK TO ESTABLISH NEW LANDSCAPES

ALLOCATION PLANS ARE AVAILABLE FOR CUSTOMERS WHO NEED ADDITIONAL WATERING SCHEDULE FLEXIBILITY FROM CSU.

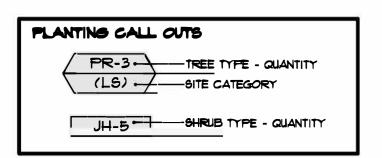
CONTRACTOR SHALL CONTACT CSU FOR FURTHER INFORMATION.

#### PLANT SCHEDULE - LOT 1 **Planting** Abbr. Qty. Size Botanical Name Common Name Size **EVERGREE TREES:** WXHT125678D 6-8' x 12-15' 6' ht. Juniperus scopulorum 'Cologreen **DECIDUOUS TREES** WXHTB & B Gleditsia triacanthos 'Skyline' 1-1/2"cal. 1-1/2"cal. Acer Tataricum 'Hot Wings' Tatarian Maple Hot Wings **EVERGREEN SHRUBS:** Compact Oregon Grape Holly 4S Buffalo Sierra Juniper 568A Juniperus sabina 'sierra' **DECIDUOUS SHRUBS:** O₃⊙ \*\*\* CR \*\*\* PO 6-10' x 8-10' 2-4' x 2-4' Cornus stolonifera 'Redtwig' Potentilla fruticosa 'Abbotswood PERCENT SIGNATURE TREES & SHRUBS REQUIRED: 60% TOTAL NO. OF SHRUBS/SIGNATURE SHRUBS: 100% SIGNATURE SHRUBS **ORNAMENTAL GRASSES:** Calamagrostis acutiflora 'Karl Foerster' Feather Reed Grass 1-3' x 2-3'

|               | <b>GROUND COVER LEGEND - LOT</b>   | 1          |
|---------------|--|------------|
| SYMBOL        | DESCRIPTION  | APPROX. SF |
| × × × × ×     | Irrigated Seed Mix 'A'. Refer to notes Submit SPEC to owner/landscape architect prior to ordering                  | 1,878 SF   |
|               | Blue-Gray River Rock: 1.5" Diameter (with weed barrier) Submit SPEC to owner/landscape architect prior to ordering | 4,558 SF   |
|               | Engineered Wood Fiber surface for play area. 12" depth Submit SPEC to owner/landscape architect prior to ordering  | 477 SF     |
| $\overline{}$ | Steel Edger. See notes   |            |
|               | JANTITIES SHOWN IN LEGEND ARE FOR CONVENIENCE ON<br>ONTRACTOR IS RESPONSIBLE FOR INSTALLING ALL MATER              |            |

#### JC-9 **ZONING: PUD** LB CONCRETE CURB: FOUR SIDES **USE: MULTI FAMILY** POND MAINTENANCE ACCESS LB CR-6-LB PROPOSED OPAQUE JC-9-LB **ZONING: PUD** 6' CEDAR FENCE. ZONING: PUD **USE: MULTI FAMILY** REMOVE AND PROPOSED OPAQUE 6' CEDAR FENCE USE: MUTI FAMILY REPLACE IF ON PROPERTY LINE. PROPOSED OPAQUE 6' CEDAR FENCE 15' LANDSCAPE BUFFER **AREA** `Se.è41 W '\!!\a0°00 S **ZONING: R-5 USE: MULTI FAMILY** CONCRETE PAREING LOT CA-4-LBT PO-3-IL **ZONING: R-2** USE: MUTI FAMILY 15' LANDSCAPE BUFFER JC-8 PROPOSED OPAQUE 6' JC-3 Cedar Fence CEDAR FENCE TO REMAIN WATER QUALITY POND AREA. REFER TO GRADING PLAN BY ZONING: R-2 USE: SINGLE **EXISTING 28" CAL. ELM TREES -2** ZONING: R-5 FAMILY USE: MULTI FAMILY PROPOSED OPAQUE 6' 15' LANDSCAPE BUFFER CEDAR FENCE

## FINAL LANDSCAPE PLAN





VERIFY LOCATION AND DEPTH OF ALL UNDERGROUND UTILITIES PRIOR TO START OF WORK. CALL 811 FOR UTILITY LOCATES. TREE TRUNK PLACEMENT SHALL BE 6' MINIMUM DISTANCE FROM ANY GAS OR ELECTRIC AND 10' FROM GAS MAINS RATED AT 150PSI. FOR SANITARY SEWER AND WATER MAINLINES TREES SHALL NOT BE LOCATED WITHIN EASEMENTS AND WITHIN 15' OF ANY MAINLINE. ANY CONFLICT BETWEEN TREE LOCATIONS AND UTILITIES SHOWN ON PLANS SHALL BE RESOLVED WITH GENERAL CONTRACTOR PRIOR TO PLANTING. ALL ELECTRICAL VAULTS AND TRANSFORMERS SHALL BE KEPT CLEAR FROM PLANT MATERIAL PER COLORADO SPRINGS UTILITIES GUIDELINES "LANDSCAPING AROUND ELECTRICAL EQUIPMENT". SEE COLORADO SPRINGS UTILITIES CONSTRUCTION STANDARD DRAWINGS 18-302 FOR SPECIFIC CLEARANCE REQUIREMENTS. ALL SHRUBS TO BE LOCATED 3' CLEAR OF ALL FIRE HYDRANTS AT MATURE SIZE.

### **GRADE NOTE**

NOTE: QUANTITIES SHOWN IN LEGEND ARE FOR CONVENIENCE ONLY.

CONTRACTOR IS RESPONSIBLE FOR INSTALLING ALL MATERIALS PER PLAN.

GRADE SHALL BE ESTABLISHED BASED ON GRADING PLAN BY OTHERS, AND FOR LANDSCAPE MATERIALS PER PLAN. FINAL SOIL GRADE FOR 5-12" DIAMETER ROCK AREAS SHALL BE 4" BELOW TOP OF SIDEWALK/CURB/PAVING. AT ALL OTHER ROCK AREAS GRADE SHALL BE 3" BELOW SIDEWALK/CURB. AT SOD/SEED AREAS GRADE SHALL BE 1" BELOW TOP OF SIDEWALK/CURB.

#### DOCUMENT NOTE

IRRESPECTIVE OF ANY OTHER TERM IN THIS DOCUMENT, LANDSCAPE ARCHITECT SHALL NOT CONTROL OR BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SCHEDULES, SEQUENCES OR PROCEDURES, OR FOR CONSTRUCTION SAFETY OR ANY OTHER RELATED PROGRAMS, OR FOR ANOTHER PARTIES' ERRORS OR OMISSIONS OR FOR ANOTHER PARTIES' FAILURE TO COMPLETE THEIR WORK OR SERVICES IN ACCORDANCE WITH LANDSCAPE ARCHITECT'S DOCUMENTS.

CITY FILE NO. DEPN-22-0083

REVISIONS

3-8-22 PER CITY COMMENTS

8-4-22 PER CITY COMMENTS

11-18-22 PER CITY COMMENTS

2-20-23 PER CITY COMMENTS

8-1-23 PER CITY COMMENTS

ORIGINAL DATE 3-8-22

DRAWN BY JM

DESCRIPTION
FINAL LANDSCAPE PLAN

SHEET NO. 11 of 13

SHEET

L1.2

ST DALE STRE MULTI FAMILY
SO SPRINGS, CO

DESIGNS,

#### **GENERAL SITE NOTES**

- CONTRACTOR RESPONSIBLE FOR COORDINATING AND INSTALLING ALL SLEEVING REQUIRED FOR LANDSCAPE AND IRRIGATION CONSTRUCTION. COORDINATE WITH GENERAL CONTRACTOR. ALL PLANTING AREAS SHALL RECEIVE SLEEVING. REFER TO PLANTING PLAN FOR ADDITIONAL INFORMATION.
- THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES, AS SHOWN ON THESE PLANS, IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOTTO BE RELIED UPON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE LOCAL UTILITY LOCATION CENTER AT LEAST 48 HOURS REFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATIONS OF THE LITH ITIES. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL VERIFY PERTINENT LOCATIONS AND ELEVATIONS, ESPECIALLY AT CONNECTION POINTS AND AT POTENTIAL UTILITY CONFLICTS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES THAT CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THESE PLANS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FOR ALL APPLICABLE
- ALL MATERIALS, WORKMANSHIP, AND CONSTRUCTION OF PUBLIC IMPROVEMENTS SHALL MEET OR EXCEED THE STANDARDS AND SPECIFICATIONS SET FORTH IN LOCAL CITY STANDARDS AND SPECIFICATIONS AND APPLICABLE STATE AND FEDERAL REGULATIONS. WHERE THERE IS CONFLICT BETWEEN THESE PLANS AND THE SPECIFICATIONS, OR ANY APPLICABLE STANDARDS, THE HIGHER QUALITY STANDARD SHALL APPLY. ALL WORK SHALL BE INSPECTED AND APPROVED BY THE APPROPRIATE GOVERNING AGENCIES.
- THE CONTRACTOR SHALL HAVE ONE (1) SIGNED COPY OF THE APPROVED CONSTRUCTION DOCUMENTS, ONE (1) COPY OF THE APPROPRIATE STANDARDS AND SPECIFICATIONS. AND A COPY OF ANY PERMITS AND EXTENSION AGREEMENTS NEEDED FOR THE JOB, ON-SITE AT ALL TIMES.
- ALL REFERENCES TO ANY PUBLISHED STANDARDS SHALL REFER TO THE LATEST REVISION OF SAID STANDARD, UNLESS SPECIFICALLY STATED OTHERWISE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING ROADWAYS FREE AND CLEAR OF ALL CONSTRUCTION DEBRIS TRACKED FROM THE SITE.
- THE CONTRACTOR SHALL PROTECT ALL SITE ELEMENTS DURING CONSTRUCTION INCLUDING, BUT NOT LIMITED TO: CONCRETE FLATWORK, CURB & GUTTER, PAVING, SIGNS, TREES, UTILITIES, ETC. ANY DAMAGE TO INFRASTRUCTURE SHALL BE RESPONSIBILITY OF CONTRACTOR TO REPAIR AND/OR REPLACE IN EQUAL OR BETTER CONDITION. ANY DAMAGE SHALL BE DOCUMENTED THE DAY IT OCCURS AND REPORTED TO THE CLIENT WITHIN 12 HOURS. COORDINATE WITH GENERAL CONTRACTOR.
- CONTRACTOR IS RESPONSIBLE FOR SUBMITTING LANDSCAPE AND IRRIGATION SUBMITTALS FOR APPROVAL PRIOR TO START OF ANY WORK.

#### **INSTALLATION NOTES**

REMOVE EXISTING TREES, DEBRIS AND WEEDS FROM SITE PRIOR TO CONSTRUCTION (AS SHOWN PER PLAN). LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE SITE DURING CONSTRUCTION. WEEDS AND TRASH SHALL BE REMOVED DAILY AS REQUIRED.

EXISTING TOPSOIL TO BE STOCKPILED ON-SITE AND USED DURING CONSTRUCTION TO ESTABLISH GRADES WITHIN

CONTRACTOR SHALL REFER TO ASSOCIATED LANDSCAPE CONTRACTORS OF COLORADO HANDBOOK (ALCC), 2007 REVISED EDITION FOR ALL CONSTRUCTION FOR THIS SITE. CONTACT OWNER/LANDSCAPE ARCHITECT FOR QUESTIONS.

QUANTITIES SHOWN IN PLANT SCHEDULE ARE FOR CONVENIENCE ONLY. CONTRACTOR IS RESPONSIBLE FOR INSTALLING ALL LANDSCAPE ARCHITECT SHALL HAVE OPPORTUNITY TO INSPECT AND APPROVE ALL TREES AND ALL 1-15 GALLON MATERIAL

AT JOB SITE PRIOR TO PLANTING, INCLUDING PLACEMENT INSPECTION. STEEL EDGING TO BE GREEN PRO-STEEL (1/8" x 4" x 10') WITH STAKES OR APPROVED EQUAL. EDGING TO BE EXPOSED 1/2" MAXIMUM ABOVE FINISHED GRADES. INSTALL PER MANUFACTURE RECOMMENDATIONS. SEE PLAN FOR EDGING LOCATIONS.

ALL ROCK COVER AREAS ONLY TO BE PREPARED WITH 3 OZ PROFESSIONAL GRADE POLYSPUN WEED BARRIER WITH STAPLES AT 5' O.C. FABRIC SEAMS TO BE OVERLAPPED 6" MIN. AND SECURED WITH STAPLES.

GROUND COVER SHALL BE CONTINUOUS UNDER ALL SHRUBS THROUGHOUT PROJECT SITE. REFER TO PLANTING DETAILS. TREES AND SHRUBS TO RECEIVE ORGANIC MULCH PER DETAILS, INCLUDING ROCK AREAS-SEE DETAILS, UNLESS OTHERWISE

SPECIFIED. ORGANIC MULCH TO BE 'CASCADE CEDAR' WITH NO LANDSCAPE FABRIC 4" DEPTH. DO NOT PLANT SHRUBS OR TREES OF INCOMPATIBLE WATER REQUIREMENTS IMMEDIATELY ADJACENT (MINIMUM 5') TO ONE

PLANT BACKFILL SHALL BE 70% NATIVE ON-SITE SOIL, AND 30% BREW-GRO BIOCOMP CLASS 1 (OR CITY APPROVED EQUAL). A REPRESENTATIVE SAMPLE OF THE BOTANICAL NAME TAGS, FURNISHED BY THE NURSERY STOCK PROVIDER SHALL REMAIN

ATTACHED TO THE PLANTS UNTIL FINAL INSPECTION. LANDSCAPE CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT IF STORM DRAINAGE FROM ADJACENT LANDSCAPE AREAS

OR BUILDING DOWNSPOUTS WILL ADVERSELY AFFECT LANDSCAPED AREAS PER THE PLAN. PRIOR TO INSTALLING PLANTS OR GROUND COVER BROADCAST (PLANT SAFE) PREEN WEED PRE-EMERGENT, OR APPROVED EQUAL, IN ALL PLANTING AREAS PER MANUFACTURE RECOMMENDATIONS. WWW.PREEN.COM

#### FIRE SIGNAGE NOTE

ANY VEGETATION THAT MAY GROW TO OR IMMEDIATELY OBSTRUCT ANY FIRE LANE SIGNAGE WILL BE PLANTED IN SUCH A WAY TO PREVENT ANY FUTURE OBSTRUCTION OF SUCH SIGNAGE

#### **GRADING AND DRAINAGE NOTE**

EXISTING GRADING AND DRAINAGE SHOULD BE MAINTAINED AND IS BY OTHERS. ALL GRADES SHOULD SLOPE MINIMUM AWAY FROM ALL BUILDING FOUNDATION. PRIOR TO, OR DURING CONSTRUCTION IF DRAINAGE PROBLEMS ARE IDENTIFIED CONTACT LANDSCAPE ARCHITECT AND CEASE WORK UNTIL A SOLUTION IS AGREED TO BY ALL PARTIES. HGD, INC. PREPARED THIS LANDSCAPE PLAN BASED ON EXISTING FIELD CONDITIONS AND AND IS NOT RESPONSIBLE FOR ANY DAMAGE TO BUILDING AND/OR SITE DUE TO IMPROPER GRADING AND/OR DRAINAGE

#### LONG-TERM MAINTENANCE NOTE

ON-GOING MAINTENANCE DURING CONSTRUCTION:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ON-GOING MAINTENANCE OF ALL COMPLETED LANDSCAPE AND IRRIGATION WORK AS DEFINED UNDER CONTRACT WITH OWNER.

BEGIN MAINTENANCE IMMEDIATELY AFTER PLANTING AND CONTINUE UNTIL LANDSCAPE WORK IS COMPLETED, ACCEPTED BY OWNER, AND IF REQUESTED A FORMAL MAINTENANCE PERIOD IS INITIATED. MAINTAIN LAWNS BY WATERING, FERTILIZING, WEEDING, MOWING, TRIMMING AND OTHER OPERATIONS SUCH AS ROLLING, REGARDING, REPLANTING AS REQUIRED THROUGH CONSTRUCTION PERIOD. REMULCH WITH NEW MULCH IN AREAS WHERE MULCH HAS BEEN DISTURBED BY CONSTRUCTION OPERATIONS SUFFICIENTLY TO NULLIFY ITS PURPOSE. CONTRACTOR SHALL REPAIR SEEDED AREAS DAMAGED BY TRAFFIC AND/OR VANDALISM DURING THE CONSTRUCTION

IF THE IRRIGATION SYSTEM IS NOT AVAILABLE FOR PROPER WATERING AT THE TIME OF INSTALLATION, PROVIDE AND MAINTAIN TEMPORARY PIPING, HOSES, AND LAWN WATERING EQUIPMENT AS REQUIRED TO CONVEY WATER FROM SOURCES AND TO KEEP THE LAWNAREAS UNIFORMLY MOIST AS REQUIRED FOR PROPER GROWTH. FAILURE OF THE IRRIGATION SYSTEM SHALL NOT RELIEVE THE NSTALLER OF THE RESPONSIBILITY TO PROVIDE THE REQUIRED WATER. COORDINATE WITH OWNER.

AS AGREED WITH OWNER CONTRACTOR SHALL PROVIDE ONE-YEAR WARRANTY ON ALL PLANT MATERIAL, GRASSES AND IRRIGATION SYSTEM. REPLACEMENT OF DEAD. DISEASED OR SUBSTANTIALLY DAMAGED PLANT MATERIALS SHALL BE OF THE SAME OR SIMILAR TYPE AS SET FORTH IN THE LANDSCAPE PLAN. REPLACEMENT SHALL BE MADE IN A TIME PERIOD NOT EXCEEDING 15 DAYS. PLANT MATERIAL NEEDING REPLACEMENT DURING WINTER MONTHS SHALL BE REPLACED AT THE START OF THE NEXT GROWING SEASON.

THE OWNER OF THIS PROPERTY AND ANY FUTURE OWNERS SHALL BE RESPONSIBLE FOR THE PROPER LANDSCAPE AND IRRIGATION SYSTEM MAINTENANCE OF THIS SITE AND ANY RIGHT-OF-WAY AREAS BETWEEN THE CURB AND PROPERTY BOUNDARIES OF THIS SITE. MAINTENANCE OF THIS INCLUDES, BUT IS NOT LIMITED TO, IRRIGATION INSPECTIONS AND ADJUSTMENTS, IRRIGATION SYSTEM SHUT DOWN AND START UP, IRRIGATION LEAK REPAIR, LANDSCAPE WEEDING, MOWING, SEEDING, FERTILIZING, WOOD MULCH AND ROCK ADDITIONS, PRUNING AND PLANT MATERIAL REPLACEMENTS. ALL MAINTENANCE SHALL BE DONE IN ACCORDANCE WITH THE ALCC SPECIFICATIONS HANDBOOK REV EDITION 2007. OWNER SHOULD CONTACT LANDSCAPE CONTRACTOR OR LANDSCAPE ARCHITECT REGARDING ANY QUESTIONS RELATING TO THE LANDSCAPE OR IRRIGATION SYSTEM.

#### **SEEDING NOTES**

SEED MIX 'A" NATIVE SEED TO BE EL PASO COUNTY CONSERVATION DISTRICT ALL PURPOSE SEED MIX SOIL PREPARATION AND SEEDING METHODS SHALL FOLLOW ALL GUIDELINES PER CITY OF COLORADO SPRINGS STORMWATER ENTERPRISE CONSTRUCTION MANUAL SECTION 5. DATED DECEMBER 2020. REFER TO TABLE 5-1 FOR SEED MIX.SOIL SHALL BE AMENDED BREW-GRO BIOCOMP CLASS 1 (OR CITY APPROVED EQUAL) AT 2 C.Y./1000 SF TILLED INTO TOP 4-6" OF SOIL PRIOR TO SEEDING.

DEPENDING ON WEATHER, SEED SHALL BE INSTALLED WITHIN THE FOLLOWING TIME FRAMES: SEPTEMBER 1 UNTIL CONSISTENT GROUND FREEZE FOR SPRING ESTABLISHMENT (DORMANT SEEDING); SPRING THAW UNTIL JUNE 1 FOR SPRING AND SUMMER ESTABLISHMENT

FOR HYDRO-SEEDING ALL SEEDED AREAS SHALL RECEIVE NOT LESS THAN 1 TON PER ACRE (2000 LBS) OF VIRGIN WOOD CELLULOSE HYDRO-MULCH AND 100 LBS PER ACRE OF ORGANIC TACKIFIER.

FOR AREAS 3:1 OR GREATER USE FLEXTERRA AS ALTERNATIVE TO STRAW BLANKET. INSTALL PER MANUFACTURE. SEE SPEC. SEEDED LANDSCAPE AREAS SHALL HAVE NO BARE AREAS LARGER THAN SIX (6) SQUARE INCHES 15 DAYS AFTER GERMINATION.

DRILL SEEDING: SEEDING EQUIPMENT USED FOR APPLYING SEED MIXTURES SHALL BE DESIGNED, MODIFIED OR EQUIPPED TO REGULATE THE APPLICATION RATE AND PLANTING DEPTH OF THE SEED MIXTURE. SEED SHALL BE UNIFORMLY DISTRIBUTED IN THE DRILL HOPPER DURING THE DRILLING OPERATION. A RANGELAND DRILL CAPABLE OF MIXING DIFFERENT SIZES AND WEIGHTS OF SEEDS SHALL BE USED. THE DRILL SHALL BE EQUIPPED WITH DOUBLE DISK FURROW OPENERS, DEPTH BANDS, PRESS WHEELS OR DRAG CHAINS.

THE SEED SHALL BE DRILLED APPROXIMATELY 🐉 INCH BELOW THE SOIL SURFACE. HALF OF THE TOTAL RATE OF SEED APPLICATION SHALL BE DRILLED IN 1 DIRECTION, WITH THE REMAINDER OF THE SEED RATE DRILLED AT 90 DEGREES FROM THE FIRST DIRECTION.DO NOT DRILL OR SOW SEED DURING HIGH WINDS OR WHEN THE GROUND IS FROZEN OR OTHERWISE UNABLE TO BE WORKED.

ALL SEEDED AREAS LESS THAN 3:1 SHALL RECEIVE NO LESS THAN 2 TONS PER ACRE (400 LBS) OF CERTIFIED WEED FREE STRAW MULCH. STRAW MULCH SHALL BE APPLIED IN A UNIFORM MANNER BY MULCH SPREADER OR BY HAND. STRAW MULCH SHALL BE CRIMPED OR ANCHORED INTO THE SEEDBED IMMEDIATELY FOLLOWING SPREADING BY USING A MULCH TILLER (CRIMPER). MULCH TILLERS SHALL HAVE ROUND, NOTCHED-BLADES SPACED 8-INCHES APART (MIN.) AND SHALL HAVE SUFFICIENT WEIGHT TO FORCE THE VEGETATIVE MULCH A MINIMUM DEPTH OF 3-INCHES INTO THE SOIL. ALL MULCH TILLING SHALL BE DONE PERPENDICULAR TO THE FLOW-LINE OF THE SLOPE (ALONG CONTOURS). HAND CRIMPING SHALL BE PERFORMED ON AREAS WHERE MECHANICAL METHODS CANNOT BE USED.

MULCH SHALL BE APPLIED TO SEEDED AREAS (INCLUDING DAMP GROUND) WITHIN 24 HOURS FOLLOWING THE COMPLETION OF SEEDING OPERATIONS FOR THE AREA. MULCHING SHALL NOT BE PERFORMED DURING ADVERSE WEATHER CONDITIONS OR WHEN WIND PREVENTS UNIFORM DISTRIBUTION. APPLICATION SHALL BE IN A MANNER TO NOT SERIOUSLY DISTURB THE SEEDBED SURFACE.

#### NATIVE GRASS MANAGEMENT NOTE

ON-GOING MAINTENANCE RECOMMENDATIONS FOR NATIVE GRASS

WELL ESTABLISHED SEEDED LAWN SHALL BE A HEALTHY, WELL-ROOTED, EVEN-COLORED, AND FREE OF WEEDS, BARE AREAS, AND SURFACE IRREGULARITIES.

THE MATURE HEIGHT OF NATIVE GRASS IS EXPECTED TO BE MAINTAINED AT ABOUT 6" HIGH AND MOWED TO 3" ONCEANNUALLY IN THE LATE WINTER OR EARLY SPRING, AND IRRIGATED ON REDUCED WATER SCHEDULE.

THE SUCCESS OF PERMANENT NATIVE GRASS SEEDING CAN RARELY BE EVALUATED ACCURATELY PRIOR TO THE END OF ITS SECOND FULL GROWING SEASON. SEEDING SUCCESS DEPENDS UPON CONTROL OF WEED COMPETITION DURING THE FIRST TWO GROWING SEASONS. IN ADDITION, THE SITE SHOULD BE MONITORED ANNUALLY FOR UNDESIRABLE PLANT SPECIES.

THE SITE SHOULD BE MONITORED FOR UNDESIRABLE PLANT SPECIES. IF WEED CONTROL NEEDS TO BE PERFORMED DURING THE FIRST YEAR OF PLANT GROWTH, UTILIZE ONE OF TWO METHODS. REGARDLESS OF WHICH METHOD OF WEED CONTROL IS USED, COMPLETE BEFORE FLOWERING OF WEED SEED HEADS. SINCE WEED SPECIES MAY DEVELOP MATURE SEED HEADS AT DIFFERENT TIME OF THE GROWING SEASON, WEED CONTROL EFFORTS WILL BE REQUIRED.

- 1. HAND PULL NOXIOUS WEEDS, REMOVING AS MUCH OF THE ROOT SYSTEM AS POSSIBLE.
- 2. USE WEED EATERS TO SELECTIVELY CUT OFF THE SEED HEADS OF NOXIOUS WEEDS. USE SELECTIVE BROADLEAF HERRICIDE SLICH AS 2-4-D WITH A BACKPACK SPRAYER OR WICK APPLICATOR. BE CAREFUL NOT TO APPLY HERBICIDE ON MORE THAN ONE SQUARE FOOT IN ANY GIVEN AREA. CONTRACTOR TO NOTIFY OWNER'S AUTHORIZED REPRESENTATIVE OF ANY SUSPECTED SOIL PROBLEMS AT THE END OF THE FIRST GROWING SEASON. BROADBAND APPLICATIONS OF HERBICIDE CAN BE COMPLETED AFTER NATIVE GRASS SPECIES REACH MATURE HEIGHT

#### SLOPE STABILIZATION

LANDSCAPE CONTRACTOR TO PROVIDE EROSION CONTROL BLANKETS OR EQUAL ON SEEDED SLOPES 3:1 AND STEEPER. BLANKETS TO BE SECURED TO SLOPE PER MANUFACTURE RECOMMENDATIONS FIELD VERIFY SLOPES.

ROSION CONTROL BLANKET SHALL CONSIST OF 100% AGRICULTURAL STRAW BLANKET WITH PHOTODEGRADABLE NETTING ON BOTH SIDES.

#### PLANTING AREA SOIL PREP NOTES

FOR ALL PLANTING AREAS SOIL PREPARATION FOR UNDISTURBED OR COMPACTED AREAS:

A. RIP EXISTING SOIL TO A DEPTH OF NINE (9) INCHES MINIMUM IN ONE DIRECTION USING AN AGRICULTURAL RIPPER WITH TINES SPACED NO FURTHER THAN EIGHTEEN (18) INCHES APART OR TILL TO 6" DEPTH. AREAS ADJACENT TO WALKS, STRUCTURES, CURBS, ETC., WHERE THE USE OF LARGE MECHANICAL EQUIPMENT IS DIFFICULT SHALL BE WORKED WITH SMALLER EQUIPMENT OR

B. REMOVE ALL RUBBLE, STONES AND EXTRANEOUS MATERIAL OVER TWO (2) INCHES IN DIAMETER FROM THE SITE.

C. FOR TREE LOCATIONS REMOVE AND REPLACE EXISTING SOIL TO 36" DEPTH. IF CLAY OR SAND REPLACE WITH GRADE B TOPSOIL.

D PLANTING AREA SOIL SHALL BE AMENDED BREW-GRO BIOCOMP CLASS 1 (OR CITY APPROVED EQUAL) AT 2 C.Y./1000 SF TILLED INTO TOP 4-6" OF SOIL PRIOR TO FINAL GRADE AND PLANTING. REFER TO SEED GRASS NOTES.

#### **SLOPE STABILIZATION**

ANDSCAPE CONTRACTOR TO PROVIDE EROSION CONTROL BLANKETS OR EQUAL ON SEEDED SLOPES 3:1 AND STEEPER. BLANKETS TO BE SECURED TO SLOPE PER MANUFACTURE RECOMMENDATIONS FIELD VERIFY SLOPES. EROSION CONTROL BLANKET SHALL CONSIST OF 100% AGRICULTURAL STRAW BLANKET WITH PHOTODEGRADABLE NETTING ON BOTH SIDES.

OR APPROVED CITY EQUAL: FLEXIBLE GROWTH MEDIUM (FGM). FLEXTERRA HP-FGM. REFER TO SPEC SHEET

#### FERTILIZER NOTES

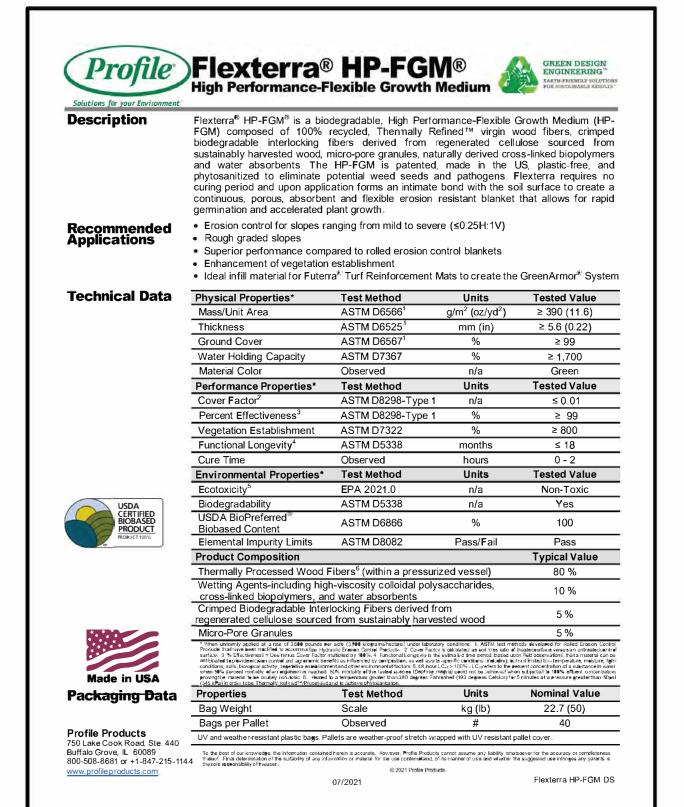
FERTILIZER A S FOLLOWS: (USE THE DRIP LINE TO CALCULATE THE SQUARE FEET TO CALC. AREA) REFER TO SOILS REPORT FOR

TREES: 3 LBS NITROGEN PER 1,000 SF, 4 LBS PHOSPHORUS PER 1,000 SF. ADJUST FERTILIZER RECOMMENDATIONS FOR AREA OCCUPIED BY ROOT SYSTEM, WHICH IS OFTEN TWO TO THREE TIMES, THE DIAMETER OF THE DRIPLINE. DO NOT APPLY FERTILIZER UNTIL TREES HAVE BEEN PLANTED FOR ONE FULL YEAR. APPLY HALF OF FERTILIZER IN SPRING, HALF IN FALL. SURFACE APPLY FERTILIZER TO AREA SUGGESTED ABOVE AND WATER PROPERLY. USE ABOVE RATES FOR BROADLEAF TREES. USE HALF OF ABOVE RATES FOR CONIFERS, EVERGREENS. OR FRUIT TREES.

SHRUBS: 1 LBS PHOSPHORUS PER 1,000 SF, 2 LBS NITROGEN PER 1,000 SF. SPREAD RECOMMENDED FERTILIZER EVENLY OVER THE ROOT ZONE, STARTING SIX INCHES AWAY FROM THE PLANT BASE AND EXTENDING A FOOT BEYOND THE ENDS OF THE BRANCHES. RAKE INTO THE TOP INCH OF SOIL WITHOUT DISTURBING ROOTS. APPLY HALF THE RECOMMENDED FERTILIZER IN EARLY SPRING, HALF IN EARLY SUMMER

KENTUCKY BLUEGRASS TURF: 1.0 LBS PHOSPHORUS PER 1,000 SF, 2.6 LBS NITROGEN PER 1,000 SF, AND .2 COPPER PER 1,000 SF. APPLY ABOUT 1 LB OF RECOMMENDE NITROGEN IN LATE SUMMER. APPLY HALF OF REMAINING NITROGEN REQUIRED IN MID-FALL, HALF IN MID SPRING. FOR HIGH MAINTENANCE TURF, APPLY ABOUT 1 LB OF THE RECOMMENDED NITROGEN IN EARLY SUMMER. TO OBTAIN 1 LB OF ACTUAL NITROGEN, APPLY 3 TO 4 LB OF 34-0-0, 5 LB OF 20-0-0, 10 LB OF 10-0-0, OR SIMILAR FERTILIZERS

NATIVE GRASS: 43 LBS PHOSPHORUS PER ACRE, 52 LBS NITROGEN PER ACRE, 4.0 LBS POTASSIUM PER ACRE, AND .2 COPPER PER ACRE. USE EL PASO COUNTY CONSERVATION DISTRICT GUIDELINES.



#### SEED MIX 'A' - ALL PURPOSE

Chapter 5 Native Vegetation Requirements and Guidelines

Table 5-1. El Paso County Conservation District All-Purpose Mix for Upland, Transition and Permanent

| ontroi Measu                        | re Areas                  |                            |            | USE THIS MI                                   | ×   |                                       |
|-------------------------------------|---------------------------|----------------------------|------------|---|---|---------------------------------------|
| Common<br>Name                      | Scientific<br>Name        | Growth<br>Season /<br>Form | % of Mix   | • Irrigated broadcast • Irrigated hydroseeded | Non-irrigated broadcast Non-irrigated hydroseeded drilled | Non-irrigated drilled  20 seeds/sq ft |
| Bluestem,<br>big                    | Andropogon<br>gerardii    | Warm, sod                  | 20         | 4.4   | 2.2   | 1.1                                   |
| Grama, blue                         | Bouteloua<br>gracilis     | Warm, bunch                | 10         | 0.5   | 0.25  | 0.13                                  |
| Green<br>needlegrass²               | Nassella<br>viridula      | Cool, bunch                | 10         | 2   | ) 1   | 0.5                                   |
| Wheatgrass,<br>western <sup>2</sup> | Pascopyrum<br>smithii     | Cool, sod                  | 20         | 6.4   | 3.2   | 1.6                                   |
| Grama,<br>sideoats                  | Bouteloua<br>curtipendula | Warm, bunch                | 10         | 2   | ) 1   | 0.5                                   |
| Switchgrass <sup>2</sup>            | Panicum<br>virgatum       | Warm,<br>bunch/sod         | 10         | 0.8   | 0.4   | 0.2                                   |
| Prairie<br>sandreed                 | Calimovilfa<br>Iongifolia | Warm, sod                  | 10         | 1.2   | 0.6   | 0.3                                   |
| Yellow<br>indiangrass <sup>2</sup>  | Sorghastrum<br>nutans     | Warm, sod                  | 10         | 2   | 3 1   | 0.5                                   |
|                                     |                           | Cood rate (II              | he DIC/acr | 10.2  | 0.7   | 1.0                                   |

<sup>1</sup>For portions of facilities located near or on the bottom or where wet soil conditions occur. Planting of potted nursery stock wetland plants 2-foot on-center is recommended for sites with wetland hydrology.

19.3

Seed rate (lbs PLS/acre)

<sup>2</sup>Species that will do well in the bottom of pond areas.

**Control Measure Areas** 

# Know what's below. Call before you dig.

#### **UTILITIES NOTE**

VERIFY LOCATION AND DEPTH OF ALL UNDERGROUND UTILITIES PRIOR TO START OF WORK. CALL 811 FOR UTILITY LOCATES. TREE TRUNK PLACEMENT SHALL BE 6' MINIMUM DISTANCE FROM ANY GAS OR ELECTRIC AND 10' FROM GAS MAINS RATED AT 150PSI. FOR SANITARY SEWER AND WATER MAINLINES TREES SHALL NOT BE LOCATED WITHIN EASEMENTS AND WITHIN 15' OF ANY MAINLINE. ANY CONFLICT BETWEEN TREE LOCATIONS AND UTILITIES SHOWN ON PLANS SHALL BE RESOLVED WITH GENERAL CONTRACTOR PRIOR TO PLANTING. ALL ELECTRICAL VAULTS AND TRANSFORMERS SHALL BE KEPT CLEAR FROM PLANT MATERIAL PER COLORADO SPRINGS LITILITIES GLIDELINES "LANDSCAPING AROLIND ELECTRICAL FOLIRMENT". SEE COLORADO SPRINGS UTILITIES CONSTRUCTION STANDARD DRAWINGS 18-302 FOR SPECIFIC CLEARANCE REQUIREMENTS. ALL SHRUBS TO BE LOCATED 3' CLEAR OF ALL FIRE HYDRANTS AT MATURE SIZE.

#### **DOCUMENT NOTE**

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CITY FILE NO. DEPN-22-0083

SPRINGS OLYMPIC CITY **USA Land Use Review** Approved 03/28/2024

9:13:29 AM

William.Gray

Z ROUND

AST DALE STREET MULTI FAMILY
DO SPRINGS, CO

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1068-22 REVISIONS 3-8-22 PER CITY COMMENTS
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8-1-23 PER CITY COMMENTS ORIGINAL DATE 3-8-22 DRAWN BY JM DESCRIPTION LANDSCAPE NOTES

SHEET NO.

12 of 13

SHEET

L1.3

