

2021/12/02 10:59 AM By: Andrew Hood J:\JDS-Hydro\Project Files\102 Widefield Water And San\102.125 Rolling Hills Pump Station\Drawings\02-Civil\102.125_Site Improvement_Details.dwg

GENERAL NOTES:

1. PRIOR TO BEGINNING ANY WORK ON THE SITE, THE CONTRACTOR SHALL CONTACT THE OFFICE OF THE OWNER'S REPRESENTATIVE FOR SPECIFIC INSTRUCTIONS RELEVANT TO THE SEQUENCING OF WORK.
2. READ THOROUGHLY AND BECOME FAMILIAR WITH THE DRAWINGS, NOTATIONS, DETAILS AND SPECIFICATIONS FOR THIS AND RELATED WORK PRIOR TO CONSTRUCTION.
3. LANDSCAPE CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES NECESSARY TO FURNISH AND INSTALL LANDSCAPE ELEMENTS AND PLANTINGS AS SPECIFIED HEREIN AND AS SHOWN ON THESE PLANS.
4. REPORT ANY DISCREPANCIES IN THE LANDSCAPE PLANS IMMEDIATELY TO THE OWNER/ OWNER'S REPRESENTATIVE.
5. NO MATERIAL SUBSTITUTIONS SHALL BE MADE WITHOUT LANDSCAPE ARCHITECT'S APPROVAL. ALTERNATE MATERIALS OF SIMILAR SIZE AND CHARACTER MAY BE CONSIDERED IF SPECIFIED PLANT MATERIALS CANNOT BE OBTAINED. OWNER'S REPRESENTATIVE RESERVES THE RIGHT TO REVISE PLANT LIST AS DEEMED NECESSARY.
6. ALL PLANT LOCATIONS ARE APPROXIMATE, ADJUST AS NECESSARY TO AVOID CONFLICTS.
7. QUANTITIES OF MATERIALS SHOWN ON THE PLANTING PLAN TAKE PRECEDENCE OVER QUANTITIES SHOWN ON THE PLANT MATERIAL SCHEDULE. LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL QUANTITIES ON THE PLANTING PLAN.
8. CONTRACTOR SHALL LOCATE ALL UTILITIES BEFORE WORK. UTILITIES HAVE BEEN SHOWN ON PLAN FOR ROUGH LOCATION OF SERVICES. LOCATE EXACT UTILITY LOCATIONS BY CONTACTING "CALL BEFORE YOU DIG" AT (800) 922-1987 OR 811. CONTRACTOR WILL BE RESPONSIBLE FOR THE REPAIR OF ANY DAMAGE HE MAY CAUSE TO UTILITIES.
9. REMOVE ALL RUBBISH, EQUIPMENT AND MATERIAL AND LEAVE THE AREA IN A NEAT, CLEAN CONDITION EACH DAY. MAINTAIN PAVED AREAS UTILIZED FOR HAULING EQUIPMENT AND MATERIALS BY OTHER TRADES IN A CLEAN AND UNOBSTRUCTED CONDITION AT ALL TIMES.
10. STORAGE OF ANY MATERIALS, BUILDINGS, VEHICLES OR EQUIPMENT, FENCING AND WARNING SIGNS SHALL BE MAINTAINED THROUGHOUT THE SITE WORK AND CONSTRUCTION PERIODS BY THE CONTRACTOR.
11. ALL COMMON LANDSCAPE AND STREETScape PLANTINGS WITHIN THIS DEVELOPMENT SHALL BE OWNED AND MAINTAINED BY THE PROPERTY OWNER.
12. ANY OBJECT WITHIN THE SIGHT DISTANCE TRIANGLE OR EASEMENT MORE THAN 30 INCHES ABOVE THE FLOWLINE ELEVATION OF THE ADJACENT ROADWAY SHALL CONSTITUTE A SIGHT OBSTRUCTION, AND SHALL BE REMOVED OR LOWERED. THE OBJECTS MAY INCLUDE BUT ARE NOT LIMITED TO BERMS, BUILDINGS, PARKED VEHICLES ON PRIVATE PROPERTY, CUT SLOPES, HEDGES, TREES, BUSHES, UTILITY CABINETS OR TALL CROPS. TREES MAY BE PERMITTED AT THE DISCRETION OF THE ECM ADMINISTRATOR IF PRUNED TO AT LEAST 8 FEET ABOVE THE FLOWLINE ELEVATION OF THE ADJACENT ROADWAY.

SHRUB/ TREE PLANTING NOTES:

1. ALL TREE AND SHRUB LOCATIONS ARE APPROXIMATE; ADJUST AS NECESSARY TO AVOID CONFLICTS. PLANTING LOCATIONS OF SHRUBS, GRASSES, AND PERENNIALS AS SPECIFIED. OBTAIN OWNER'S REPRESENTATIVE'S APPROVAL OF LOCATIONS PRIOR TO PLANTING TREES AND SHRUBS.
2. ALL PLANT MATERIAL SHALL BE WELL-FORMED AND DEVELOPED IN GOOD CONDITION, HEALTHY AND DISEASE-FREE, AND BE TYPICAL OF THE SPECIES. PLANTS SHALL COMPLY IN ALL APPLICABLE RESPECTS WITH ACCEPTABLE STANDARDS AS SET FORTH IN THE COLORADO NURSERY ACT OF 1965 - TITLE 35, ARTICLE 25, CRS 1974 (SEE LANDSCAPE THE NURSERY ACT).
3. PLANTS ARE TO BE SELECTED AND SIZED AS SHOWN ON THE PLANT SCHEDULE.
4. PLANTING BEDS RECEIVING MULCH ARE TO BE FREE OF WEEDS AND GRASS. TREAT BEDS WITH A PRE-EMERGENT HERBICIDE PRIOR TO PLANTING AND MULCH PLACEMENT. APPLY IN ACCORDANCE WITH STANDARD TRADE PRACTICE. DO NOT APPLY HERBICIDE IN PERENNIAL BEDS.
5. POROUS WEED BARRIER FABRIC, AS NOTED IN THE SPECIFICATIONS, SHALL BE INSTALLED WHERE NOTED IN THE DETAILS.
6. ALL PLANT MATERIALS SHALL HAVE BACKFILL CAREFULLY PLACED AROUND BASE AND SIDES OF BALL TO TWO-THIRDS (2/3) DEPTH OF BALL, THEN THOROUGHLY SOAKED WITH WATER TO ALLOW SETTLEMENT. ALL WIRE, BURLAP FASTENERS AND LOOSE BURLAP AROUND BASE OF TRUNK SHALL BE REMOVED AT THIS TIME. REMAINDER OF PIT SHALL THEN BE BACKFILLED, ALLOWING FOR DEPTH OF MULCH, SAUCER AND SETTLEMENT OF BACKFILL. BACKFILL SHALL THEN BE THOROUGHLY WATERED AGAIN.
7. THE CONTRACTOR SHALL PROVIDE ALL WATER, WATERING DEVICES AND LABOR NEEDED TO IRRIGATE PLANT MATERIALS UNTIL AUTOMATIC IRRIGATION SYSTEMS ARE OPERATIONAL AND ACCEPTED. THE CONTRACTOR SHALL SUPPLY ENOUGH WATER TO MAINTAIN THE PLANT'S HEALTHY CONDITION BASED ON SEASONAL CONSIDERATIONS.
8. AT THE COMPLETION OF PLANTING OPERATIONS ALL PLANTS SHALL BE INSPECTED BY THE OWNER AND OWNER'S REPRESENTATIVE. CONTRACTOR SHALL REPLACE IMMEDIATELY ANY PLANTS NOT IN HEALTHY AND VIGOROUS CONDITION AT THAT TIME AT NO EXPENSE TO THE OWNER. ANY PLANT NOT IN HEALTHY CONDITION DURING THE WARRANTY PERIOD SHALL BE REPLACED AS PER THE ORIGINAL SPECIFICATIONS, AT NO CHARGE TO THE OWNER.

SODDING & SEEDING:

1. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING EXISTING EROSION CONTROL MEASURES DURING THE DURATION OF WORK ON-SITE.
2. GENERAL CONTRACTOR SHALL PROVIDE 4" OF TOPSOIL AT ALL SOD AND PLANTING AREAS. GRADE SHALL BE ADJUSTED FOR SOD THICKNESS. ALL FINISH GRADING SHALL BE PERFORMED BY LANDSCAPE CONTRACTOR.
3. FINE GRADE SOD AREAS TO ELIMINATE IRREGULARITIES ON THE SURFACE. ROLL OR PERFORM ADDITIONAL FINE GRADING.
4. ALL SPECIFIED SEED MIXES SHALL CONSIST OF CERTIFIED SEED VARIETIES THAT ARE FREE OF NOXIOUS WEEDS AND HAVE BEEN TESTED FOR PURITY AND GERMINATION WITHIN SIX MONTHS OF THE PLANTING DATE. CERTIFICATION LABELS WHICH INDICATE THE SPECIES, PURITY, GERMINATION, WEED CONTENT, ORIGIN, AND TEST DATE SHALL BE SUBMITTED FOR ALL SEED MATERIALS.
5. SEEDING METHOD: DRILL SEEDING OR BROADCAST SEEDING SHALL BE USED FOR REVEGETATION. AS OUTLINED BELOW, THE SIZE AND SLOPE OF THE DISTURBED AREA SHALL DETERMINE WHICH SEEDING METHOD(S) IS APPROPRIATE AND ACCEPTABLE. WHERE FEASIBLE, RANGELAND DRILL SEEDING COMBINED WITH A COVER OF CRIMPED HAY MULCH OR HYDRO-MULCH IS THE REQUIRED METHOD

- 5.1. SLOPES LESS THAN 3:1 - SEED SHALL BE PLANTED USING A RANGELAND DRILL WITH A SMALL SEED/LEGUME BOX AND AN AGITATOR BOX FOR FLUFFY OR BULKY SEED. SEED ROWS SHALL BE SPACED 7-10 INCHES APART, AND PLANTED 0.5 TO 0.75 INCHES DEEP. THE DRILL SHALL HAVE DOUBLE-DISK FURROW OPENERS WITH DEPTH BANDS AND PACKER WHEELS. SEEDING SHALL BE ACCOMPLISHED USING BI-DIRECTIONAL DRILLING AND FOLLOWING THE SLOPE CONTOUR. THE DRILL EQUIPMENT SHALL BE CALIBRATED EACH DAY OR WHENEVER THERE IS A CHANGE IN THE SEED MIX TO ENSURE PROPER SEED DISTRIBUTION AND RATE.
 - 5.1.1. FOR AREAS LARGER THAN 0.1 ACRE- HYDRO-SEEDING SHALL BE USED. THE SEED SHALL NOT BE TANK MIXED WITH THE HYDRO-MULCH AND BROADCAST.
6. MULCHING: WEED-FREE NATIVE HAY, WEED-FREE STRAW, OR VIRGIN WOOD FIBER HYDRO-MULCH SHALL BE USED TO CONTROL EROSION AND PROMOTE SEED GERMINATION AND PLANT ESTABLISHMENT. NATIVE HAY, STRAW, OR HYDRO-MULCH SHALL BE APPLIED AT 2,000 POUNDS/ACRE ON SLOPES LESS THAN 3:1. ON STEEPER SLOPES, A MULCHING RATE OF 2,500 POUNDS/ACRE SHALL BE USED.
7. NATIVE HAY OR STRAW SHALL BE CRIMPED INTO THE SOIL TO A DEPTH OF AT LEAST 3 INCHES, AND SHALL PROTRUDE ABOVE THE GROUND AT LEAST 3 INCHES. AN ORGANIC TACKIFIER SHALL BE USED TO HOLD THE HAY OR STRAW IN PLACE IF THE CRIMPING RESULTS ARE INSUFFICIENT. HYDRO-MULCH SHALL BE APPLIED USING A COLOR DYE AND THE MANUFACTURER RECOMMENDED RATE OF AN ORGANIC TACKIFIER.
8. APPROVAL OF SEEDED TURF AREAS SHALL BE BASED UPON THE SEED PRODUCERS GUARANTEED SEEDING GERMINATION RATE FOR A ONE SQUARE FOOT AREA. IF GUARANTEED GERMINATION RATE IS NOT ACHIEVED, THE CONTRACTOR SHALL OVERSEED UNTIL THE GERMINATION RATE IS ACHIEVED. REVEGETATION SHALL HAVE AT LEAST 3 NATIVE GRASS SEEDLINGS/SQUARE FOOT AND NO BARE AREAS EXCEEDING ONE SQUARE METER AFTER THE SECOND GROWING SEASON. FOR DRILL SEEDING AREAS, PLANTING ROWS SHALL BE NOTICEABLE BY THE END OF THE FIRST FULL GROWING SEASON. IF A PARTIAL OR TOTAL SEEDING FAILURE IS APPARENT AFTER THE SECOND GROWING SEASON, POORLY VEGETATED AREAS SHALL BE RESEED IN THE SAME MANNER DESCRIBED ABOVE. APPROPRIATE SITE PREPARATION PRACTICES SHALL BE USED TO CREATE A SUITABLE SEEDBED FOR PLANTING, BUT ANY ESTABLISHED NATIVE VEGETATION SHALL BE UNDISTURBED TO THE EXTENT POSSIBLE. AREAS THAT ERODE BEFORE GERMINATION AND ESTABLISHMENT CAN OCCUR SHALL BE REPAIRED AND IMMEDIATELY RESEED DURING THE SAME SEASON.

Include the following information on this plan:

Vicinity map showing the site in relation to section lines and existing or proposed arterial or collector roadways.

The location of all utilities, walls, fences, exterior parking and loading areas, pedestrian walks or paths, pedestrian-oriented areas, vehicular drives, storm water detention areas, and other manmade elements. Detail drawings of all required structures used for screening purposes (Example: refuse areas, equipment screening, and/or gates).

Sight distance triangles and any plantings, signs, walls, structures, or other visual obstructions within the triangles where applicable.

JDS-HYDRO CONSULTANTS, INC.
 5440 TECH CENTER DR., SUITE 100
 COLORADO SPRINGS, COLORADO 80919
 (719) 227-0072
DISCLAIMER: THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS. ANY ERRORS OR OMISSIONS SHALL BE REPORTED TO JDS-HYDRO CONSULTANTS, INC. JDS-HYDRO ASSUMES NO LIABILITY FOR UNAUTHORIZED CHANGES AND/OR REVISIONS MADE TO PLANS.

WIDEFIELD WATER AND SANITATION DISTRICT
 ROLLING HILLS BOOSTER PUMP STATION
 ALTERNATE LANDSCAPE PLAN NOTES

NO.	DESCRIPTION	BY	DATE
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FOR REVIEW

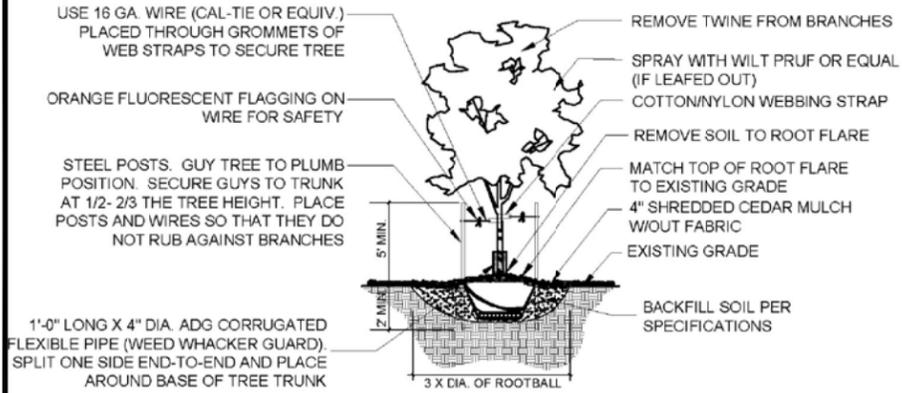


Project No.: 102.125
 Date: 12/02/21
 Design: GGM
 Drawn: GGM
 Check: GJD

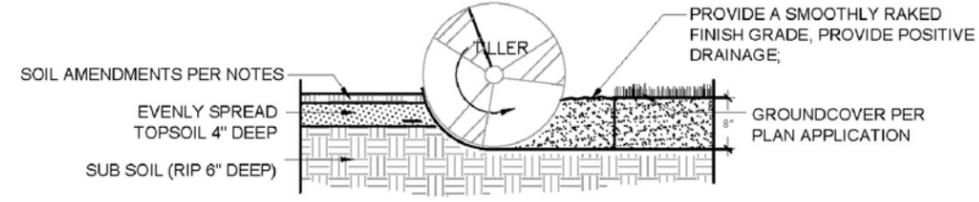
PCD File No. **PPR-21-075**

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2021/12/03 12:15 PM By: Gina Mangino J:\05-Hydro\Project Files\102 Widefield Water And San\102.125 Rolling Hills Pump Station\Drawings\02-Civil\102.125_Site Improvement_Details.dwg

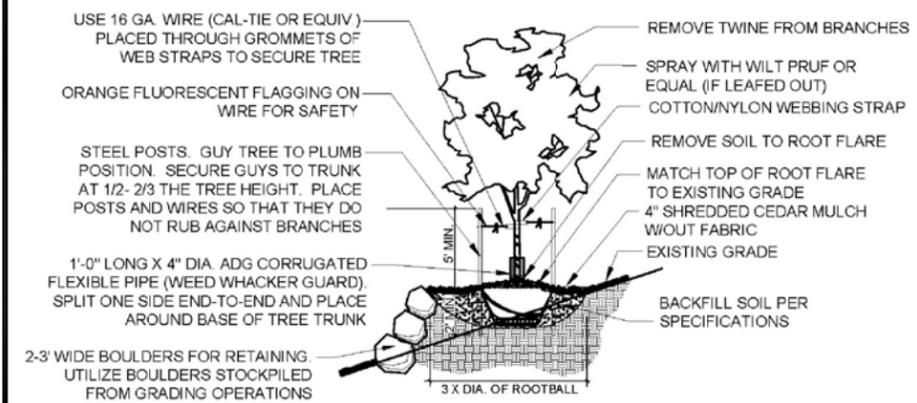


A DECIDUOUS TREE PLANTING
C23 SCALE: N.T.S.



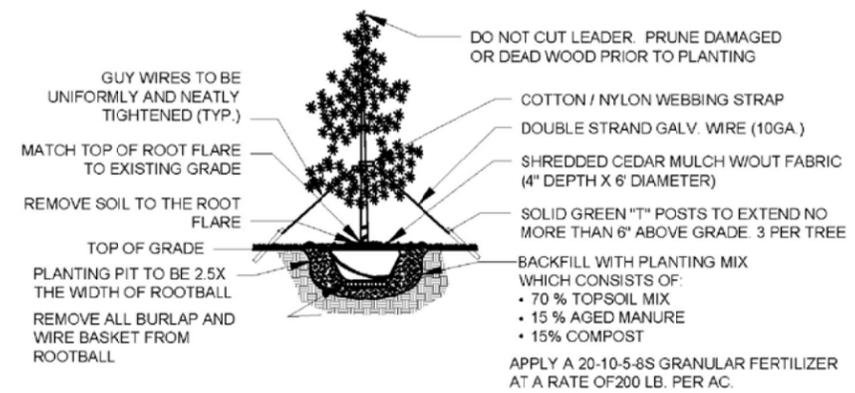
- NOTES:**
1. TOPSOIL TO CONSIST OF DARK, LIGHT LOAM SOIL FREE OF ROCKS, ROOTS, AND FOREIGN MATERIALS.
 2. COMPOST TO CONSIST OF 1-YEAR OLD ORGANIC MATERIAL AND SHOULD NOT INCLUDE CHICKEN MANURE.
 3. FROZEN MATERIALS OR MATERIALS GREATER THAN 1" DIA. SHOULD BE REMOVED.

D SOIL PREP FOR LANDSCAPE AREAS
C23 SCALE: N.T.S.



B TREE PLACEMENT ON SLOPES
C23 SCALE: N.T.S.

ALTERNATE LANDSCAPING COVERAGES	
SITE AREA (FUTURE TRACT D)	30,800 SQ FT
ROADWAY FRONTAGE	
GRAYLING DR, NON-ARTERIAL, COLLECTOR	220.01' (176.01' USEABLE)
FRONTAGE WIDTH REQUIRED/PROVIDED	15/15 (INSIDE EASEMENT)
NUMBER OF TREES REQUIRED @ 1/15 LF/PROVIDED	12/11 (SEE ALT. LANDSCAPE REQUEST)
PARKING LOT	
TREES, ISLANDS, SCREENING	N/A
BUFFER & SCREEN AREAS (PROPERTY TRACT LINES)	
WIDTH REQUIRED/PROVIDED	15/15 (WEST)
	15/10 (NORTH, SEE ALT. LANDSCAPE REQUEST)
	15/0 (EAST, SEE ALT. LANDSCAPE REQUEST)
INTERNAL	
% MINIMUM INTERNAL AREA REQUIRED/PROVIDED	5/0 (SEE ALT. LANDSCAPE REQUEST)
INTERNAL AREA REQUIRED/PROVIDED	1540/0 (SEE ALT. LANDSCAPE REQUEST)
MINIMUM QUANTITY OF TREES REQUIRED/PROVIDED	3/0 (SEE ALT. LANDSCAPE REQUEST)
LIVE GROUND COVER WITHIN REQ. LANDSCAPE AREAS	
% GROUNDCOVER REQUIRED/PROVIDED	75/0 (SEE MISCELLANEOUS BELOW)*
OTHER	
ZONING DISTRICT BOUNDARY TREES	N/A (SEE ALT. LANDSCAPE REQUEST)
LANDSCAPING BETWEEN LOT AND CURB	HARDSCAPE PP IN LIEU OF PLANTINGS (SEE ALT. LANDSCAPE REQUEST)
*MISCELLANEOUS	
% MINIMUM GROUNDCOVER REQUIRED/PROVIDED (OVER-RIDES ABOVE)	50/75 (CONSISTS OF NATIVE SEED)



C EVERGREEN TREE PLANTING
C23 SCALE: N.T.S.

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WIDEFIELD WATER AND SANITATION DISTRICT
ROLLING HILLS BOOSTER PUMP STATION
ALTERNATE LANDSCAPE PLAN DETAILS

NO.	DESCRIPTION	BY	APP.	DATE
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Project No.: 102.125
Date: 12/02/21
Design: GGM
Drawn: GGM
Check: GJD

EPC PLANNING TO PROVIDE

PCD File No. PPR-21-

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