

GENERAL LAWN NOTES

- CONTRACTOR SHALL COORDINATE OPERATIONS AND AVAILABILITY OF
- CONTRACTOR SHALL COORDINATE OPERATIONS AND AVAILABILITY OF EXISTING TOPSOL WITH ON ASTEE CONSTRUCTION MANAGER LAWN AREAS SHALL BE LEFT 1" BELOW FINAL FINASHED GRADE PRIOR TO TOPSOL INSTALLATION.
 CONTRACTOR TO FIND GRADE AREAS TO ACHIEVE FINAL CONTOURS AS SHOWN ON COLVID DRAWNISS, POSITIVE DRAWNAGE SHALL DE SHOWN ON CIVIL DRAWNISS, POSITIVE DRAWNAGE SHALL DE BOTTOM OF SLOPES SHALL DE PROVIDED AND IN OTHER BREAKS IN GRADE. CORPECT AREAS WHERE STANDING WATER MAY OCCUR. ALL LAWN AREAS SHALL BE FINE GRADED, IRRIGATION TENCHES COMPLETELY SETTLED AND FINISH GRADE APPORTED BY THE OWNERS CONSTRUCTION MANAGER OR LANDSCAPE AFFORD TO LAWN LANGER, REMOVE ALL DIRT CLODS, STICKS, CONCRETE SPOILS, TRASH ETC PRIOR TO PLACING TOPSOLAND GRADE STRALLATION.
 CONTRACTOR SHALL REMOVE ALL DROCKS 34T CKS, CONCRETE SPOILS, TRASH ETC PRIOR TO PLACING TOPSOLAND GRADE STRALLATION.
 CONTRACTOR SHALL REMOVE ALL DROCK SAT STRALLATION.
 CONTRACTOR SHALL REMOVE CAN DROCKS STRALLATION.

- ACCEPTANCE.
 CONTRACTOR SHALL GUARANTEE ESTABLISHMENT OF ACCEPTABLE
 TURF AREA AND SHALL PROVIDE REPLACEMENT IF NECESSARY.

- SOLID SOD:

 1. SOLID SOD SHALL BE PLACED ALONG ALL IMPERVIOUS EDGES, AT A MINIMUM, THIS SHALL INCLUDE CURBS, WALKS, INLETS, MANHOLES AND PLANTING BED AREAS, SOD SHALL COVER OTHER AREAS

 COMPLETELY AS INDICATED BY PLAN.

 2. SOD SHALL BE ROWNED. TO SHALL COVER DOTHER AREAS

 COMPLETELY AS INDICATED BY PLAN.

 2. SOL SHALL BE ROWNED FOR THE SOLID FEBSICIAN SOD, NOT SHALL COVER AND KINDESINABLE NATIVE GRASS AND INACINE CULT FREE CF WEEDS AND KINDESINABLE NATIVE GRASS AND INACINE CULT POP AT THE THE AND THAT THE ALL SHALL PROVIDE AND THE SOLID SOLID SHALL PROVIDE AND THE AND THAT CH.

 2. LAY SOD BY HAND TO COVER INDICATE OR AREAS COMPLETELY, ENSURING EDGES ARE TOUCHING WITH TIGHTLY FITTING JOINTS, NO OVERLAPS WITH STAGGEFEED STRIPS TO OFFSET JOINTS.

 4. TOP DRESS JOINTS IN SOD BY HAND WITH TIOP SOLIT OF FILL VOIDS IF

- NECESSARY

 5. SOD SHALL BE ROLLED TO CREATE A SMOOTH EVEN SURFACE. SOD SHOULD BE WATERED THOROUGHLY DURING INSTALLATION PROCESS.

 6. SHOULD INSTALLATION OCCUR BETWEEN COTOBER 1ST AND MARCH 1ST, OVERSEED BERMUDAGRASS SOD WITH WINTER RYEGRASS AT A RATE OF A POUNDS PER 1000 S.F.

HYDROMULCH:

LANDSCAPE TABULATIONS for

PROVIDED

PROVIDED

40 shrubs

PARKING LOT LANDSCAPE

15' landscape buffer

3 ornamental trees

parking screening

1715 s.f. (15.9%)

2 trees

11,512 s.f. (33%)

- SCARIFY AND LOOSEN ALL AREAS TO BE HYDROMULCHED TO A MINIMUM DEPTH OF 4" PRIOR TO TOPSOIL AND HYDROMULCH
- MINIMUM DEPTH OF 4" PRIOR TO TOPSOIL AND HYDROMULCH NISTALLATION.

 2. BERMUDA GRASS SEED SHALL BE EXTRA HULLED, TREATED LAWN TYPE SEED SHALL BE DELIVERED TO THE SITE IN TIS ORIGINAL TOPSOIL SHALL SH

- CONTAINER AND SHALL BETTERMENTACK ONE; AS MANUFACTURED BY GROWERS, INC OR APPROVED EQUAL.
 HYDROMULCH WITH BERMUDA GRASS SEET AT A RATE OF 2 POUNDS PER 1000 S. T.
 USE A BATTER BOARD AGAINST ALL BED AREAS TO PREVENT OVER SPRAY.
- 6. USE A BATTER BOARD AGAINST ALL BED AREAS TO PREVENT OVER SPRAY.
 7. IF INADEQUATE MOSTURE IS PRESENT IN SOIL APPLY WITER AS NECESSARY FOR OPTIMUM MOISTURE FOR SEED APPLICATION.
 8. ALL HYDORMULCH AREAS SHALL BE OVER-SEEDED WITH WINN'ER RYE GRASS AT A RATE OF FOUR POUNDS PER ONE THOUGHT SHOULD SOUAKE FEET. CONTRACTOR SHALL BE REQUIRED TO REHYDORMULCH WITH BERMUDA GRASS ATHE FOLLOWING GROWING SEASON AS PART OF THIS CONTRACT.
 9. AFTER APPLICATION, NO EQUIPMENT SHALL OPERATE OVER APPLIED AREAS WATER SECDED AREAS IMMEDIATELY AFTER APPLIED AREAS WATER SECDED AREAS IMMEDIATELY AFTER ALL ADMINISTRATION AREAS TO BE HYDROMULCHED SHALL ACHIEVE 100% COVERAGE PRIOR TO FINAL ACCEPTANCE.

PLANT SCHEDULE

LANDSCAPE NOTES

- CONTRACTOR TO VERIFY AND LOCATE ALL PROPOSED AND EXISTING ELEMENTS, NOTIFY LANDSCAPE ARCHITECT OR DESIGNATED REPRESENTATIVE FOR ANY LOVOUT DISCREPANCIES OR ANY CONDITION THAT WOULD PROHBIT THE INSTALLATION AS SHOWN, SURVEY DATA OF EXISTING CONDITIONS WAS SUPPLIED BY OTHERS

 CONTRACTOR SHALL CALL SIT TO VERIFY AND LOCATE ANY AND ALL UTILITIES ON SITE PRIOR TO COMMENCING WORK LANDSCAPE ARCHITECT SHOULD BE NOTHER OF ANY CONFLICT, CONTRACTOR TO EXERGISE EXTREME CAUTION WHEN WORKING NEAR UNDERGROUND

SERVICES,
ATION #F-002239

DEVELOPMENT S
TEXAS REGISTRATIC

#8063

FOODS

FORK

WILD

BLVD HILLS,

8609 DAVIS NORTH RICHLAND

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CORPORATION MANCHESTER,

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- CONTAINED ROUND PLANT MATERIAL BY AND SAFE HONOR HONOR PLANT SHOULD BY AND THESE PART TO BE AND THE SPACE.

 E. CONTAINED ROUND PLANT AND THE BY ANY CONFILORS. OWNER THE SPACE AND THE S

IRRIGATION:

ALL REQUIRED LANDSCAPE AREAS SHALL HAVE AN AUTOMATIC IRRIGATION SYSTEM WITH A FREEZE/RAIN SENSOR, SYSTEM SHALL ALSO HAVE AN ET WEATHER BASED CONTROLLER AND BE DESIGNED AND INSTALLED BY A LICENSED IRRIGATOR.

- MAINTENANCE REQUIREMENTS:

 NEGETATION SHOULD BE INSPECTED REQUIARLY TO ENSURE THAT PLANT MATERIAL IS ESTABLISHING PROPERLY AND REMAINS IN A HEALTHY GROWING CONDITION APPROPRIATE FOR THE SEASON, IF ANY AMERY AND SIZE.

 MOWING, TRIMMING, EDGING AND SUPERVISION OF WATER APPLICATIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR UNTIL THE OWNER OR OWNERS REPRESENTATIVE ACCEPTS AND ASSUMES REGILLAR MAINTENANC LEARNED AND KEPT FREE OF TRASH, DEBRIS, WEEDS AND OTHER MATERIAL.

MISCELLANEOUS MATERIALS:

1. STEEL EDGING SHALL BE 3/16" X 4 X 16" DARK GREEN DURAEDGE STEEL LANDSCAPE EDGING UNLESS NOTED OTHERWISE ON PLANS/DETAILS.

~					
		TREES			
6	CM	Crepe Myrtle 'Dynamite'	Lagerstroemia indica 'Dynamite'	30 gal.	8' ht., 4' spread, multi trunk, 3 cane min
8	CS	Carolina Sapphire Cypress	Cypress arizonica	6' ht.	3' spread min., full to base
2	LE	Lacebark Elm	Ulmus parvifolia 'Sempervirens'	3" cal.	12' ht., 4' spread
3	so	Shumard Oak	Quercus shumardii	3" cal.	12' ht., 5' spread
		SHRUBS			
40	DBH	Dwarf Burford Holly	llex comuta ' Burford Nana'	5 gal.	full, 20" spread, 36" c.c.
17	GM	Gulf Muhly	Muhlenbergia capillaris	3 gal.	full, 30" o.c.
22	NRS	Nellie R Stevens Holly	Illex x 'Nellie R. Stevens'	7 gal.	full, 40" o.c.
21	SG	Switchgrass	Panicum virgatum	5 gal.	full, 24" spread, 36" c.c.
			** 1		

Plant list is an aid to bidders only. Contractor shall verify all quantities on plan. All heights and spreads are minimums. Trees shall have a strong central leader and be of matching specimens. All plant material shall meet or exceed remarks as indicated. All trees to be container grown.

GRAPHIC SCALE

Scale 1"=20' - 0"

67 WM Wax Myrtle Myrica pusilla 7 gal. full, 30" sprd, 40" o.c. GROUNDCOVER/VINES/GRASS Giant Lirope Liriope gigantea 60 SC 4" pots full, 12" o.c. Seasonal Colo Bermuda Solid Sod Cynodon dactylon



SHEET





- 1.1 QUALIFICATIONS OF THE LANDSCAPE CONTRACTOR.
- A. ALL LANDSCAPE WORK SHOWN ON THESE PLANS SHALL BE PERFORMED BY A SINGLE FIRM SPECIALIZING IN LANDSCAPE PLANTING 1.2 REFERENCE DOCUMENTS
- A. REFER TO LANDSCAPE PLANS, NOTES, SCHEDULES AND DETAILS FOR ADDITIONAL REQUIREMENTS
- 1.3 SCOPE OF WORK / DESCRIPTION OF WORK
- A. WORK COVERED BY THESE SECTIONS INCLUDES: FURNISH ALL SUPERVISIONS, LABOR, MATERIALS, SERVICES, EQUIPMENT AND APPLIANCES REQUIRED TO COMPLETE THE WORK COVERED IN CONJUNCTION WITH THE LANDSCAPING COVERED IN LANDSCAPE PLANS AND SPECIFICATIONS INCLUDING:
- PLANTING (TREES SHRUBS GRASSES) BED PREP AND FERTILIZATION
- NOTIFICATION OF SOURCES
- WATER AND MAINTENANCE UNTIL ACCEPTANCE GUARANTEE
- B. SUMMANILEE EFFORMED IN ACCORDANCE WITH ALL APPLICABLE AND WORK FOR HEAD FROM THE RESULTIONS REQUIRED BY ARTHROTHES HANDING SUMMANIAN FOR THE AND A STATE OF THE AND A STATE A STATE OF THE ASSET OF THE

1.5 SUBMITTALS

- A. PROVIDE REPRESENTATIVE QUANTITIES OF EACH SOIL, MULCH, BED MIX, GRAVEL AND STONE BEFORE INSTALLATION, SAMFLES TO BE APPROVED BY OWNERS REPRESENTATIVE BEFORE USE.

 B. SOIL AMENDMENTS AND FERTILIZERS SHOULD BE RESEARCHED AND BASED ON THE SOILS IN THE AREA.
- 1.6 JOB CONDITIONS, DELIVERY, STORAGE AND HANDLING
- B. JOB CONDITIONS, DELIVERY, STORAGE AND HANDLING
 A. GENERAL CONTRACTOR TO COMPLETE WORK BEFORE LANDSCAPE
 CONTRACTOR TO COMMENCE.
 B. ALL PLANTING BED AREAS SHALL BE LEFT THREE INCHES BELOW FINAL
 GRAGO OF SIDEMALS, DIVERS AND CURBS. ALL AREAS TO RECEIVE SOLD
 SOD SHALL BE LET THE MEYER BELOW THE RIFAL GRAGE OF WALKS, DIVES
 SOD SHALL BE LET THE MEYER BELOW THE RIFAL GRAGE OF WALKS, DIVES
 LANDSCAPE CONTRACTOR BEGINNING WORK.
 C. STORAGE OF MATERIALS AND EQUIPMENT AT THE JOB SITE WILL BE AT THE
 RISK OF THE LANDSCAPE CONTRACTOR. THE OWNER CANNOT BE HELD
 RESPONSIBLE FOR THEFT OR DAMAGE. FINALTS USED FOR REFLACEMENT SHALL BE OF THE SAME SIZE AND KIND AS THOSE ORIGINALLY PLANTED OR SPECIFIED, ALL WORK ROLLDINGS AS THOSE ORIGINALLY PLANTED OR SPECIFIED, ACTUAL SHALL WORK OR AT A WORTH GUARANTEE. AND EARLY STATEMENT OF THE ACTUAL SHALL BE AT A SECULT OF MARKING REPLACEMENTS SHALL BE IMMEDIATELY REPARED. WINDOWNIEL REPAIRED. WHEN PLANTS, SOIL MIX, FERTILIZER AND MULCH ARE TO BE UTILIZED AS ORIGINALLY SPECIFIED AND REINSPECTED FOR FULL COMPULANCE WITH THE CONTRACT REQUIREMENTS, ALL REPLACEMENTS ARE INCLUDED UNDER WORK OF THIS SECTION.

1.7 SEQUENCING

- . INSTALL TREES, SHRUBS, AND LINER STOCK PLANT MATERIALS PRIOR TO INSTALLATION OF LAWNSOLID SOD.

 B. WHERE EXISTING TURE AREAS ARE BEING CONVERTED TO PLANTING BEDS, THE TURE SHALL BE CHEMICALLY FRADICATED TO MINIMIZE RE-GROWTH IN THE FUTURE. AREAS SHALL BE PROPERLY PREPARED WITH AMENDED ORGANIC MATTER.

- A. THE LANDSCAPE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR THE MAINTENANCE OF ALL WORK FROM THE TIME OF PLANTING UNTIL FINAL ACCEPTANCE BY OWNER.

 B. NO TREES, GARSA, GROUNDCOVER OR GRASS WILL BE ACCEPTED UNLESS THEY SHOW HEALTHY GROWTH AND SATISFACTORY FOLIAGE CONDITIONS.
- C. MAINTENANCE SHALL INCLUDE WATERING OF TREES AND PLANTS CULTIVATION, WEED SPRAYING, EDGING, PRUNING OF TREES, MOWING OF GRASS, CLEANING UP AND ALL OTHER WORK NECESSARY FOR MAINTENANCE.
- D. A WRITTEN NOTICE REQUESTING FINAL INSPECTION AND ACCEPTANCE

- F. REMOVE DEAD, UNHEALTHY AND UNSIGHTLY PLANTS DURING WARRANTY PERIOD
- PERIOD

 REMOVE GUYING AND STAKING MATERIALS AFTER ONE YEAR

 ALL LANDSCAPE MUST BE MAINTAINED AND GRASS MOWED/EDGED ON A
 WEEKLY SCHEDULE UNTIL ACCEPTANCE BY OWNER. REMOVE CLIPPINGS
 AND DEBRIS FROM SITE PROMOTILY.
- AND DEBIIS FROM SITE PROMPTLY,
 REMOVE TRASH, DEBRIS, AND LITTER, WATER, PRIUNE, RESTAME TREES,
 FERTILIZE, WEED AND PREPLY HERBICIDES AND FUNGICIDES AS REQUIRED.
 COORDINATE THE OPERATION OF IRRIPATION SYSTEM TO ENSURE THAT
 PLANTS ARE ADEQUATELY WATERED. HAND WATER AREAS NOT RECEIVING
 ADEQUATE WATER FROM AN IRRICATION SYSTEM.
 THE LANDSCAPE CONTRACTOR SHALL MANTAIN THE IRRIGATION SYSTEM AND ACCORDANCE TO THE MANIFEAVENES ESPRICE TO ENSURE THE SYSTEM IS
 NOT ANAMIZE WATER CONCERNMENT ON HER PROMPTION OF THE SYSTEM IS
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- REAPPLY MULCH TO BARE AND THIN AREAS.

 SHOULD SEEDED ANDIOR SODDED AREAS NOT BE COVERED BY AN AUTOMATIC IRRIGATION OF SYSTEM. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR WATERING THESE AREAS AND OBTAINING A FULL, HEALTHY STAND OF GRASS AT NO ADDITIONAL COST TO THE OWNER.
- HEALTHY STAND OF GRASS AT NO ADDITIONAL COST TO THE UNMERTHANCE PERIOD. THE MAINTENANCE PERIOD THE MAINTENANCE PERIOD THE MAINTENANCE PERIOD. THE LANDSCAPE GRAD LANDSCAPE GRADULE HEALTHY GROWTH WITH EXCEPTIONS MADE FOR SEASONAL DORMACOY, ALE PLANTS WITH MEETING THIS CONDITION SHALL BE REJECTED AND REPLACED BY HEALTHY FLANT MAINTENAN PHORT OF THIS ACCEPTANCE.
- ALL HARDSCAPE SHALL BE CLEANED PRIOR TO FINAL ACCEPTANCE.
- ACCEPTANCE.

 SODDED AREAS MUST BE ACTIVELY GROWING AND MART RECOLA.

 SODDED AREAS SHADE OF A STANDARD AND MART RECOLA.

 WINDOWN LEDGE OAREAS SHALL SHOW ACTIVE, HEALTHY GROWTH
 BABE AREAS LARGER THAN TWELVE SOLDER INCHES MUST
 BE RESOLDED OR RESECUED (AS APPROPRIATE) PRIOR TO FINAL
 ACCEPTANCE. ALL SODDED TURP SHALL BE HEALTH MOWED.

THE OWNER AGREES THAT FOR THE ONE YEAR WARRANTY PERIOD TO BE EFFECTIVE, HE WILL WATER PLANTS AT LEAST TWICE A WEEK DURING DRY PERIODS.

G. ACCEPTANCE FOR ALL LANDSCAPE WORK SHALL BE GIVEN AFTER FINAL INSPECTION BY THE OWNER PROVIDED THE JOB IS IN A COMPLETE, UNDAMAGED CONDITION AND THERE IS A STAND OF GRASS IN ALL LAWN AREAS, AT THAT TIME, THE OWNER WILL ASSUME MAINTENANCE ON THE ACCEPTED WORK.

OMPLY WITH JLL FEDERAL, STATE, COUNTY AND LOCAL REGULATIONS OCHENING LANGSCAPE MATERIALS AND WORK.

B. EMPLOY PERSONNEL EXCEPIENCED AND FAMILIAR WITH THE REGUIRED WORK AND SUPERVISION BY A FOREMAN.
C. MAKE CONTACT WITH SUPPLIERS IMMEDIATELY UPON OBTAINING NOTICE OF CONTRACT ACCEPTANCE TO SELECT AND SOOK MATERIALS.

A TREES, SHRUBS, GROUNDCYOER SHALL BE GUARANTEED (IN WRITING) FOR A 12 MONTH PERIOD (90 DAYS FOR ANNUAL PLANTING OR AT THE END OF THE SEASONAL COLOR GROWNIS SEASON, WHICHEVER GOMES SOONER, AFTER RINAL ACCEPTANCE. THE CONTRACTOR SHALL REPLACE ALL DEAD MATERIALS AS SOON AS WEATHER PERMITS AND UPON NOTIFICATION OF

8. TO AVOID DAMAGE OR STRESS, DO NOT LIFT, MOVE, ADJUST TO PLUMB, OR OTHERWISE MANIPULATE PLANTS BY TRUNK OR STEMS. PART 2 - PRODUCTS

2.1 PLANT MATERIALS

2.1 PLANT MATERIALS

A. GENERAL. WELL FORMED NO. 1 GRADE OR BETTER NURSERY GROWN STOCK, LISTED PLANT HEIGHTS ARE FROM TOPS OF FOOT BALLS TO WITHOUT A STOCK, LISTED PLANT HEIGHTS ARE FROM TOPS OF FOOT BALLS TO WITHOUT A STOCK, LISTED PLANT HOT THE OUTER LEAF TIPS. PLANTS SHALL BE INDIVIDUALLY APPROVED BY THE OWNERS REPRESENTATIVE SHAD THEIR DECISION AS TO THEIR ACCEPTABILITY SHALL BE FINAL.

B. QUANTITIES. THE DRAWNESS AND SPECIFICATIONS ARE COMPLIMENTARY, ANYTHING CALLED FOR ON ONE AND NOT THE OTHER IS AS BINDING AS IT BISDERS ONLY, CONFIRM ALL QUANTITIES OF PLANTESSHAD AND A TOTAL SIDEMS ONLY, CONFIRM ALL QUANTITIES OF PLANTESSHAD AND A TOTAL SIDEMS ONLY, CONFIRM ALL QUANTITIES OF PLANTESSHAD BY THE PLANT OF THE STATE OF THE PLANT SHALL BE FREE FROM INSCRIPT. IN ALSO IMPERATIVE, PLANTS SHALL BE FREE FROM INSCRIPT. IN A SIDEMS OF THE PLANTING AND SHALL BE REMOVED AT THE EXPENSE OF THE EMPOSED OF THE STATE OF THE PLANTING AND SHALL BE REMOVED AT THE EXPENSE OF THE LANDSCAPE CONTRACTOR AND SHALL BE REMOVED AT THE EXPENSE OF THE LANDSCAPE CONTRACTOR AND REPLACED WITH ACCEPTABLE SPECIMENS.

E. TREES SHALL BE REMOVED AT THE EXPENSE OF THE LANDSCAPE CONTRACTOR AND SHALL BE REMOVED AT THE EXPENSE OF THE CHANGSCAPE CONTRACTOR AND SHALL BE REMOVED AT THE EXPENSE OF THE LANDSCAPE CONTRACTOR AND REPLACED WITH ACCEPTABLE SPECIMENS.

E. TREES SHALL BE REALTY, LILL BRANCHED, WELL SHAPED AND SHALL BE REMOVED AT THE EXPENSE OF THE PLANTING AND MILES OF THE PROLECT SHE FOR SHALL BE CRECITED BY SHALL BE EXCLUDED.

D. DEVELOP A PROGRAM OF MAINTENANCE (PRUNING AND FERTILIZATION) WHICH WILL ENSURE THE PURCHASED MATERIALS WILL MEET AND/OR EXCEED PROJECT SPECIFICATIONS.

E-DO NOT MAKE PLANT MATERIAL SUBSTITUTIONS. IF THE LANDING MATERIAL SPECIFIED IS NOT READILY AVAILABLE, SUBMIT PROCLANDS CAPE ARCHITECT ALONG WITH THE PROPOSED MATERIAL USED IN LIEU OF THE SPECIFIED PLANT.

1, BALLED AND BURLAPPED B&B PLANTS): DIG AND PREPARE SHIPMENT IN A MANNER THAT WILL NOT DAMAGE ROOTS, BRANCHES, SHAPE AND FUTURE DEVELOPMENT.

2. CONTAINER GROWN PLANTS: DELIVER PLANTS IN RIGID CONTAINER TO HOLD BALL SHAPE AND PROTECT ROOT MASS.

LUVENT .

1. DELIVER PACKAGED MATERIALS IN SEALED CONTAINERS SHOWING WEIGHT, ANALYSIS AND NAME OF MANUFACTURER. PROTECT MATERIALS FROM DETERIORATION DURING DELIVERY AND WHILE STORED ON SITE.

2. DELIVER ONLY PLANT MATERIALS THAT CAN BE PLANTED IN ONE DAY UNLESS ADEQUATE STORAGE AND WATERING FACILITIES ARE AVAILABLE ON SITE

ON SITE 3. PROTECT ROOT BALLS BY HEELING IN WITH SAWDUST OR OTHER APPROVED MOISTURE RETAINING MATERIAL IF NOT PLANTED WITHIN 24 HOURS OF DELIVERY.

4. PROTECT PLANTS DURING LEVERY TO PREVENT DAMAGE TO ROOT BALL OR DESIGNATION.

S. KEEP PLANTS MOIST AT ALL TIMES. COVER ALL MATERIALS DURING TRANSPORT.

6. NOTIFY OWNERS REPRESENTATIVE OF DELIVERY 72 HOURS PRIOR TO DELIVERY OF PLANT MATERIAL AT JOB SITE.
7. REMOVE REJECTED PLANT MATERIAL IMMEDIATELY FROM JOB SITE.

1.10 PRODUCT DELIVERY, STORAGE AND HANDLING

A. PREPARATION

- F. PRUNING: ALL PRUNING OF TREES AND SHRUBS SHALL BE EXECUTED BY THE LANDSCAPE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER, PRIOR TO FINAL ACCEPTANCE.
- CHONT IN FINAL ANCEFTANCE.

 PLANTS SHALL CONFORM TO THE MEASUREMENTS SPECIFIED, EXCEPT THE PLANTS LARGER THAN THOSE SPECIFIED MAY BE USED. USE OF LARGER PLANTS SHALL NOT INCREASE THE CONTRACT PRICE.

 H. WHERE MATERIALS ARE PLANTED IN MASSES, PROVIDE PLANTS OF UNIFORM SCE.

- ROOTS, AND FREE FROM ANY OTHER ROOT DEFECTS (SUCH AS J-SHAPED
- THERE AND THE PROPERTY SHIPS THE PROPERTY SHIPS AND THE PROPERTY SHIPS AND THE PROPERTY SHIPS THE PROPERTY SHIPS THE PROPERTY SHIPS THE PROPERTY SHIPS AND THE P
- SUNSUALU, DISPRIGHENT AND 15, UNIVESCUT DAMPAGE VILLE OF THE COLOR OF
- SPECIFIED.

 G. OWNERS REPRESENTATIVE SHALL INSPECT ALL PLANT MATERIAL AND RETAINS THE RIGHT TO INSPECT METERIALS UPON ARRIVAL TO THE STREET AND THE RESERVE THE STREET AND THE STREET STREET AND MATERIALS HEISHE FEELS TO BE UNSATFACTORY OR DEFECTIVE DURING THE WORK PROCESS. ALL PLANTS DAMAGED IN TRANSIT OR AT THE JUDG STEWALLE REJECT SHALLE REJECT.

 - ROOT FLARE FOR TREES EXCEEDING FOUR INCHES IN CALIFER IN MILITHRUM FREES SHALL BE MEASURED BY THEIR OVERALL HEIGHT, MEASURED FROM THE TOP OF THE ROOT BALL.

 O, MY TREE OR SHIQUE SHOWN TO HAVE EXCESS SOIL PLACED ON TOP OF THE ROOT BALL, SO THAT THE ROOT FLARE HAS BEEN COMPLETELY COVERED, SHALL BE REJECTION.

 P. SOIL: PROVIDE WELL-ROOTED SOIL OF THE VARIETY NOTED ON THE PLANS. SOIL SHALL BE CUT FROM HEALTHY, MATURE TURF WITH SOIL THICKNESS OF 3WT TO 1". EACH TRALET OF SOIL SHALL BE ACCORDANIED BY A CERTIFICATE FROM SUPPLIES TAINING THE COMPOSITION OF THE SOIL.

2,2 SOIL PREPARATION MATERIALS

- 2 SOL PREPARATION MATERIALS

 A. SANDY LOAM:

 1. FRABIE, FERTILE, DARK, LOAMY SOIL, FREE OF CLAY
 LUMPS, SUBSOIL, STONES AND OTHER EXTRANEOUS
 MATERIAL AND REASONABLY PREE OF WEEDS AND
 FOREIGN GRASSES: LOAM CONTAINING DALLASGRASS OR
 NUTGRASS SHALL BE REJECTED.

 2. PHYSICAL PROPERTIES AS FOLLOWS:

 a. CLAY BETWEEN 7-27%
 b. SILT. BETWEEN 15-25%
 c. SAND LESS THAN 82%
 2. OSGAND MATERS HALL BE 3%-10% OF TOTAL DRY
- 3. ORGANIC MATTER SHALL BE 3%-10% OF TOTAL DRY WEIGHT.

- WEIGHT WEIGHT AND THE A SPALL BE 59% TO SOFT OF LICE AND WEIGHT AND WEIGHT AND THE ASSET OF THE
- IEAAS OR APPROVED EQUAL.

 SHARP SAND: SHARP SAND MUST BE FREE OF SEEDS, SOIL PARTICLES AND WEEDS.
- AND WEEDS.

 E. MULCH. DOUBLE SHREDDED HARDWOOD MULCH, PARTIALLY DECOMPOSED, DANK BROWN.

 F. ORGANIC FERTILIZER: FERTILAID, SUSTANE, OR GREEN SENSE OR EQUAL AS RECOMMENDED FOR REQUIRED APPLICATIONS, FERTILIZER SHALL BE DELIVERED TO THE SITE IN ORIGINAL UNGOFFED CONTAINERS, EACH BEARING THE MANUFACTURER'S GUARANTEED CONTAINERS, EACH BEARING THE MANUFACTURER'S GUARANTEED CONTAINERS.
- OTALEMENT OF ANALYSIS.

 G. COMMERCIAL FERTILIZER: 10-20-10 OR SIMILAR ANALYSIS. NITROGEN SOURCE TO BE A MINIMUM 50% SLOW RELEASE ORGANIC NITROGEN ISCU OR UFI WITH A MINIMUM 8% SULFUR AND 4% IRON, PLUS MICRONUTRENTS.
- PEAT: COMMERCIAL SPHAGNUM PEAT MOSS OR PARTIALLY DECOMPOSED SHREDDED PINE BARK OR OTHER APPROVED ORGANIC MATERIAL

- A MISCELLAWEOUS MATERIALS

 A STEEL EDOING SHALL BE 3/16" X 4" X 16" DARK GREEN LANDSCAPE EDGING. DURAEDOG STEEL OR APPROVED EDGINA.

 I TREE STANIG TREE STANIG SOLUTIONS OR APPROVED SUBSTITUTE: REFER TO DETAILS.

 FILTER FASRIC MIRAET 1405 BY MIRAET INC. OR APPROVED SUBSTITUTE: AVAILABLE AT LONE STAR PRODUCTS, INC. (469-823-0444)

 D. SAND-UNFORMLY GRADED WASHED, CLEAN BANK RUN SAND.

 E. GRAVEL WASHED NATIVE PER GRAVEL, GRADED 1'TO 1.5"

 DECOMBORDED ROALITE. BERN MITEBIAL OF ANTIREM MATERIAL MY OR.

- DECOMPOSED GRANITE BASE MATERIAL OF NATURAL MATERIAL MIX OF GRANITE AGGREGATE NOT TO EXCEED 1/8" IN DIAMETER COMPOSED OF VARIOUS STAGES OF DECOMPOSED EARTH BASE.
- G. RIVER ROCK LOCALLY AVAILABLE NATIVE RIVER ROCK BETWEEN 2"-4" IN DIAMETER

PART 3 - EXECUTION

3.1 PREPARATION

- A. LANDSCAPE CONTRACTOR TO INSPECT ALL EXISTING CONDITIONS AND REPORT AND OPERCENCIES TO THE OWNER.

 8. ALL PLANTING AREAS SHALL BE CONDITIONED AS FOLLOWS:

 1. PREPARE NEW PLANTING BEDS BY SCRAPING AWAY EXISTING GRASS AND WEEDS AS NECESSAMY. TILL EXISTING SOIL TO A CONTRACT OF THE CONT
- THICKNESS,
 2. BACKFILL FOR TREE PITS SHALL BE AS FOLLOWS: USE EXISTING TOP SOLL ON SITE LUSE IMPORTED TO SOLL AS NEEDED PIEE FROM TOP SOLL ON SITE LUSE IMPORTED TO SOLL AS NEEDED PIEE FROM THE OWNER OF THE PIECE O

3.2 INSTALLATION

- 2 INSTALLATION

 A MAINTENANCE OF PLANT MATERIALS SHALL BEGIN IMMEDIATELY AFTER EACH PLANT IS DELIVERED TO THE SITE AND SHALL CONTINUE UNITS. ALL BEGIN AT SEASON SHALL CONTINUE BEGIN AT SHALL SHALL BEGIN AT SHALL BE DELIVERED TO THE SITE ONLY AFTER THE BEDS ARE PREPARED AND AREAS ARE READY FOR PLANTING. ALL SHIPMENTS OF NUNSERY MATERIALS SHALL BE THOROUGHLY PROTECTED FROM THE WINDS DURING TRANST. ALL PLANTS WHICH BE WELL PROTECTED AGAINST THE POSSIBILITY OF DRIVING BY WIND AND BALLS OF EARTH OF B. & B.PLANTS SHALL BE KETT COVERED WITH SOIL OR OTHER ACCEPTABLE MATERIAL. ALL PLANTS REMAIN THE PROPERTY OF THE CONTRACTOR WITH ANDLE ACCEPTABLE MATERIAL. ALL PLANTS REMAIN THE PROPERTY OF THE CONTRACTOR WITH STANL ACCEPTABLE MATERIAL.

- THE PROPERTY OF THE CONTRACTOR WITL FINAL ACCEPTANCE.

 C. POSITION THE TREES AND SHRUBS IN THEIR INTENDED LOCATION AS FER FLAN.

 NOTIFY THE OWNER'S AUTHORIZED REPRESENTATIVE FOR INSPECTION AND APPROVAL OF ALL POSITIONING OF PLANT MATERIALS.

 E. EXCAVATE PITS WITH VERTICAL SIDES AND HORIZONTAL BOTTOM. THEE PITS SHALL BE LARGE ENOUGH TO FERMIT HANDLING AND SHALL BE OF SUCH DEPTH THAT WHEN PLANTED AND SETTLED, THE CROWN OF THE PLANT SHALL BEAR THE SAME RELATIONSHIP TO THE FINISH GRADE AS IT DID TO SOIL SUPPERS OR ORIGINAL PLACE OF GROWTH, THE SIDES OF THE HOLE SHOULD BE ROUGH AND JAGGED.

 SHALL BE ON THE PLANT SHALL BEAR IT SHOULD BE ROUGH AND JAGGED.

 SHALL BOARD AST TO THE HOLE SHOULD BE ROUGH AND JAGGED.

 SHALL BOARD THE PLANT SHALL BEAR ITS SHALL THAT THE STREET OF THE HOLE SHOULD BE ROUGH AND JAGGED.

- GROWTH, THE SIDES OF THE HOLE SHOULD BE ROUGH AND JAGGED,
 NEVER SILCK OR GLAZED SHALL BE NO LESS THAN TYPELTY-FOUND FATSHIPLAN ADMITTER THAN THE LATERAL DIMENSION, OF THE EARTH RALL
 AND SIX (F) INCHES DEEPER THAN ITS VERTICAL DIMENSION,
 REMOVE AND HAUL FROM SITE ALL ROCKS AND STONES OVER
 THREE-QUARTER (X)* INCH IN DIAMETER. PLANTS SHOULD BE
 THOROUGHLY MOST BEFORE REMOVING CONTAINERS.

 FERCULATION TEST: FILL THE HOLE WITH WATER. IF THE WATER
 LEVEL DOES NOT HE COLAIL WITHIN 24 HOURS, THE MEE NEEDS THAT
 A PK STAND PIEP PER TREE IF THE PERCOLATION TEST FALLS.

 H, BACKFILL ONLY WITH 5 PARTS EXISTING SOIL OR SANDY LOAM AND IT
 PART BED PEPERARTION. WHEN THE HOLE IS DUG IN SOLID ROCK.
 TOPSOIL FROM THE SAME AREA SHOULD NOT BE USED. CAREFULLY
 SETTLE BY WATERING TO PREVENT AIR POCKETS. REMOVE THE
 BURGH STAND THE PER THE PER OF THE BALL. AS SEEN SHALL IN ONE
 FROM THE SAME AREA SHOULD NOT BE USED. CAREFULLY
 SETTLE BY WATERING TO PREVENT AIR POCKETS. REMOVE THE
 BURGH SOUND, IF SO FOLLOW STANDARD NURSERY PRACTICE OF
 "ROOT SCORING."
- DO NOT WRAP TREES. DO NOT OVER PRUNE.
- K. REMOVE NURSERY TAGS AND STAKES FROM ALL PLANTS
 L. REMOVE BOTTOM OF PLANT BOXES PRIOR TO PLACING PLANTS. REMOVE SIDES AFTER PLACEMENT AND PARTIAL BACKFILLING.
- M. REMOVE UPPER THIRD OF BURLAP FROM BALLED AND BURLAPPED TREES AFTER PLACEMENT.

 N. PLACE PLANT UPRIGHT AND PLUMB IN CENTER OF HOLE, ORIENT PLANTS FOR BEST APPEARANCE.

- THE BALL AND MULCH WITH AT LEAST TWO (2") INCHES OF SPECIFIED
- ALL PLANT BEDS AND TREES TO BE MULCHED WITH A MINIMUM SETTLED THICKNESS OF TWO (2") INCHES OVER THE ENTIRE BED OR
- PIT.

 O. OSSTRUCTION BELOW GROUND: IN THE EVENT THAT ROCK, OR UNDERGROUND CONSTRUCTION WORK OR OBSTRUCTIONS CONSTRUCTION WORK OR OSSTRUCTIONS CONSTRUCTION WORK TO BE DONE UNDER THIS SECTION, ALTERNATE LOCATIONS MAY BE SELECTED BY THE OWNER. WHERE LOCATIONS CAMPOT BE CHANCED. THE OWNER. WHERE LOCATIONS CAMPOT BE CHANCED. THE OWNER WHERE LOW GRADE AND NO LESS THAN SIX (BY INCHES BELOW THE BOTTOM OF BALL WHEN PLANT IS PROPERLY SET AT THE REQUIRED GRADE. THE WORK OF THIS SECTION SHALL INCLUDE THE REMOVAL FROM THE STEE OF SUCH MOCK OR UNDERGROUND OBSTRUCTIONS ENCOUNTERED AT THE COST OF THE LANDSCAPE.
- P. TREES AND LARGE SHRUBS SHALL BE STAKED AS SITE CONDITIONS REQUIRE. POSITION STAKES TO SECURE TREES AGAINST SEASONAL PREVAILING WINDS.
- REQUIRE. POSITION STAKES TO SECULE TREES AGAINST SEASO PREVAILING WINDLING. HING. PRUNING SHALL BE DIRECTED BY PREVAILING WINDLING HING. BE DIRECTED BY PROVING SHALL BE PRUNED IN ACCORD. WITH STANDARD HORNICULTURAL PRACTICE FOLLOWING PRUNING, CLASS I PRUNING STANDARDS PROVIDED BY THE NATIO ARBORIST ASSOCIATION.

 1. DEAD WOOD, SUCKERS, BROKEN AND BADLY BRUISED BRANCHES SHALL BE REMOVED, GENERAL IPPING OF THE BRANCHES SHALL BE REMOVED, GENERAL IPPING OF THE BRANCHES IS NOT PERMITTED. DO NOT CUT TERMINAL BRANCHES. PRUNING SHALL BE DONE WITH CLEAN, SHAPP TOLS.

 3. TIMMEDIATELY AFTER PLANTING OPERATIONS ARE COMMERCED TO SHAPP TO S
- O, STEEL EDGE INSTALLATION: EDGE SHALL BE ALIGNED AS INDICATED ON PLANS. STAKE OUT LIMITS OF STEEL CURBING AND OBTAIN OWNERS APPROVAD, PRIOR TO INSTALLATION.

 1. ALL STEEL CURBING SHALL BE FREE OF KINKS AND ABRUPT BENDS.
- TOP OF EDGING SHALL BE ½* MAXIMUM HEIGHT ABOVE FINAL FINISHED GRADE.

 3. STAKES ARE TO BE INSTALLED ON THE PLANTING BED SIDE OF THE CURBING, AS OPPOSED TO THE GRADE SIDE.

 4. DO NOT INSTALL STEEL EDGING ALONG SIDEWALKS OR CURBS.

5. CUT STEEL EDGING AT 45 DEGREE ANGLE WHERE EDGING MEETS SIDEWALKS OR CURBS.

- 3.3 CLEANUP AND ACCEPTANCE

 A, CLEANUP, DURING THE WORK, THE PREMISES SHALL BE KEPT NEAT

 A, CLEANUP, DURING THE WORK, THE PREMISES SHALL BE KEPT NEAT

 SHALL BE, SU ORGANIZED, SO THAT THEY, TOO, ARE NEAT AND

 OPDERLY, ALL TRASH AND DEBRIS SHALL BE REMOVED FROM THE

 SITE AS WORK PROGRESSES. KEEP PAVED AREAS CLEAN BY

 SWEEPING OR HOSING THEM AT END OF EACH WORK DAY.

 B. REPAIR RUTS, HOLES AND SCARES IN GROUND SUPFACES.

 C. ESNIGE THAT WORK IS COMPLETE AND PLANT MATERIALS ARE IN

 VIGOROUS AND HEALTHY GROWING CONDITION.

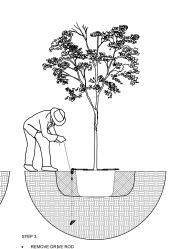
 JIPON COMPETION OF THE WORK THE ANDSCAPE CONTRACTOR SHALL

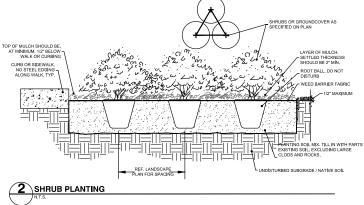
- VIGOROUS AND HEALTHY GROWNIS CONDITION.

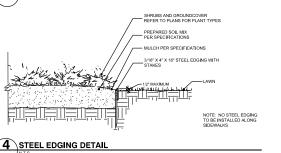
 UPON COMMETION OF THE WORK, THE LANDSCAPE CONTRACTOR SHALL PROVIDE THE SITE CLEAN, FREE OF DEBRIS AND TRASH, AND SUTRAGLE FOR USE AS INTENDED. THE LANDSCAPE CONTRACTOR SHALL THEN RECUEST DEBRIS AND TRASH, AND SUTRAGLE FOR USE AS THE CONTRACT OF SHALL THE NECESTARY OF THE CONTRACT OF SHALL PREVAMENT OF THE CONTRACT OF SHALL REPLACE ANDIOR REPAIR THE REJECTED WORK TO THE OWNERS SATISFACTION WITHIN 24 HORSCAPE WORK HAS DEED BY THE CONTRACT OF SHALL REPLACE AND THE SHALL REPLACE AND THE CONTRACT OF SHALL REPLACE AND THE SHALL REPLACE AND THE MAINTENANCE WILL BE ISSUED BY THE OWNER, AND THE MAINTENANCE WILL BE ISSUED BY THE OWNER, AND THE MAINTENANCE AND GUARANTEE PREVIOUS WILL COMMENCE.

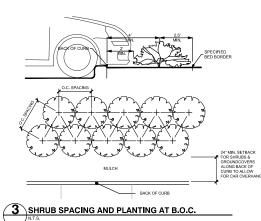
O. MULCH THE TOP OF THE BALL. DO NOT PLANT GRASS ALL THE WAY TO THE TRUNK OF THE TREE. LEAVE THE AREA ABOVE THE TOP OF

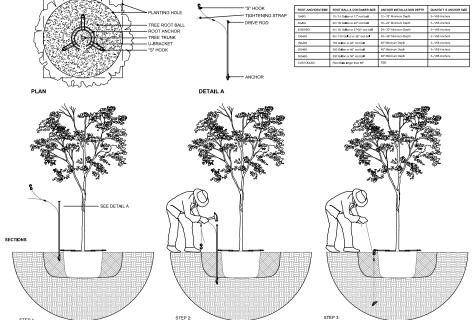


















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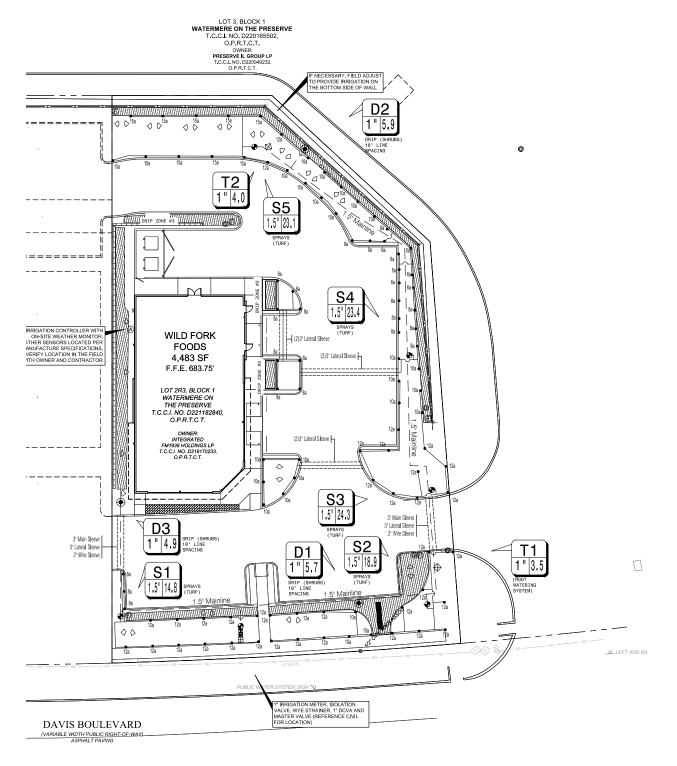
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TREE PLANTING

4 STEEL EDGING DETAIL





SLEEVING NOTES

- PIPING AND CONTROL WIRES SHALL BE INSTALLED IN SEPARATE SLEEVES UNDER PAVING. REFERENCE DRAWINGS FOR SLEEVE SIZE AND LOCATION.
- 2. SLEEVES SHALL BE FURNISHED AND INSTALLED BY GENERAL CONTRACTOR
- INSTALLATION OF SLEEVES SHALL BE TWENTY FOUR (24") BELOW TOP OF PAVEMENT OR FINISHED GRADE.
- SLEEVES SHALL EXTEND ONE (1') FOOT BEYOND EDGE OF ALL PAVEMENT AND STAKED FOR LOCATION.
- ALL SLEEVES SHALL BE SCHEDULE 40 PVC PIPE, CAPPED ON BOTH ENDS AND SIZED AT LEAST TWO TIMES LARGER THAN THE DIAMETER OF THE PIPE INSIDE THE SLEEVE.
- SLEEVE LOCATIONS SHALL BE MARKED ONTO THE CURB WITH A SAWCUT OF TWO PARALLEL LINES THAT ARE TWO (2") INCHES LONG AND ONE (1") APART.
- CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF SLEEVES AND SHALL ALSO BE RESPONSIBLE FOR LOCATING ANY SLEEVE THAT CANNOT BE FOUND DURING THE INSTALLATION OF THE SYSTEM.
- CONTRACTOR SHALL FURNISH OWNER AND IRRIGATION CONTRACTOR WITH AN 'AS-BUILT' DRAWING SHOWING ALL SLEEVE LOCATIONS.

IRRIGATION GENERAL NOTES

- THE CONTRACTOR SHALL BE RESPONSIBLE TO NOTIFY THE IRRIGATION DESIGNER OF SITE CONDITIONS OR ASSUME FULL RESPONSIBILITY FOR ANY AND ALL ON SITE REVISIONS NECESSARY.
- CONTRACTOR TO VERIFY DESIGN AND ITS INTENT TO PROVIDE FULL COVERAGE TO ALL NEW PLANTING MATERIAL.
- 4. NOTIFY IRRIGATION DESIGNER OF ANY LAYOUT DISCREPANCIES PRIOR TO BIDDING.
- LOCATE ALL UTILITIES AND SITE LIGHTING CONDUITS BEFORE IRRIGATION INSTALLATION BEGINS.
- IRRIGATION CONTRACTOR TO PROCURE ALL PERMITS, LICENSES AND GIVE ALL NECESSARY NOTICES THROUGHOUT THE DURATION OF THE PROJECT.
- THE CONTRACTOR SHALL BE A REGISTERED LICENSED IRRIGATOR IN GOOD STANDING WITH THE STATE OF TEXAS BOARDS AND REGULATORS.
- ALL ASPECTS OF THE IRRIGATION INSTALLATION SHALL CONFORM WITH THE PROPER GOVERNING AUTHORITIES, CODES AND ORDINANCES.
- SLEEVES SHALL BE FURNISHED AND INSTALLED BY GENERAL CONTRACTOR. SLEEVE MATERIAL SHALL BE SCHEDULE 40, SIZE AS INDICATED ON PLAN. REFER TO SLEEVING NOTES.
- 11. ALL MAIN LINE AND LATERAL LINE PIPING IN PLANTING AND LAWN AREAS SHALL HAVE A MININUM OF 12 INCHES OF COVER. ALL PIPING UNDER PAVING SHALL HAVE A MININUM OF 18 INCHES OF COVER. CONTRACTOR TO VERIFY LOCAL FREEZE DEPTHS
- ALL NOZZLES IN PARKING LOT ISLANDS AND PLANTING BEDS SHALL BE LOW ANGLE NOZZLES TO MINIMIZE OVER SPRAY ON PAVEMENT SURFACES.
- ELECTRICAL SPLICES SHOULD BE LOCATED AT EACH VALVE AND CONTROLLER ONLY.
- PROVIDE A 3/4" BLOW DOWN DRAIN TEE TO ALLOW WATER TO BE BLOWN FROM THE IRRIGATION LINES/SYSTEM.
- 17. DISTURBED AREAS IN NEED OF TURF ESTABLISHMENT MAY POIST BEYOND COMPACTOR TO ETHE PERMANENT IRRIGATION SYSTEM, IN THESE AREAS, CONTRACTOR TO ETERMINE A TEMPORARY MEANS TO ESTABLISH RECESSABLY TURF. CONTRACTOR IS ENCOURAGED TO BEGIN TURF ESTABLISHMENT IMMEDIATELY UPON FRALE AREAD IN ACCORDANCE WITH AND TO SATISFY SWIPP.
- 18. PROVIDE WITH OWNER A COPY OF ALL INSTALLED EQUIPMENT AND LINES (AS BUILT PLANS.)
- 20. IRRIGATION IN TEXAS IS REGULATED BY: THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEO) MC-178; PO BOX 13087 AUSTIN, TEXAS 78711-3087 WWW,TECOS,TATE,TXUS,

THE COATON OF RABLIME AND WALKS ON THE PLAN MAY BE SHOWN IN PARED AREAS FOR DESIGN CLANTY ONLY IRRIGATION ELEMENTS HAVE SEEN SHOWN ON CLARITY AND INTENT, ALL PIPES AND WALVES SHALL BE INSTALLED WITHIN PERVIOUS AREAS, ALL PIPE AND WIRES THAT CROSS UNDER PAVING SHALL BE INSTALLED IN SPRANCE SLEEPERS AS SPECIFIED.

IRRIGATION PROJECT NOTES

- ALL SPRINKLER EQUIPMENT NUMBERS REFERENCE THE HUNTER EQUIPMEN CATALOG UNLESS OTHERWISE INDICATED.
- TEN DAYS PRIOR TO START OF CONSTRUCTION, IRRIGATION CONTRACTOR SHALL VERHEY STATIC WATER PRESSURE. THE IRRIGATION SYSTEM FOR THIS SITE IS SOLIABLE NOT, SOLICIA THE SYSTEM OF THIS SYSTEM BE HIGHER THAN THE EXISTING PRESSURE, THE IRRIGATION CONTRACTOR SHALL NOTIFY THE RIRICATION DESIGNER INMEDIATELY.
- IRRIGATION CONTRACTOR SHALL COORDINATE THE LOCATION OF THE CONTROLLER AND SENSORS WITH THE GENERAL CONTRACTOR AND OWNER. A 110 VOLT ELECTRICAL SERVICE TO POWER THE RIRRIGATION CONTROLLER SHALL BE PROVIDED BY THE GENERAL CONTRACTOR AT THE LOCATION SHOWN ON THIS PLAN.
- WATER SERVICE TAP, METER AND LEAD FOR THE IRRIGATION SYSTEM SHALL BE PROVIDED AND INSTALLED BY THE GENERAL CONTRACTOR. SERVICE LINE AND METER SHALL BE SIZED AS NOTED ON THIS PLAN.
- TYPE AND INSTALLATION OF THE WATER METER AND BACK FLOW PREVENTION DEVICE SHALL BE DETERMINED BY THE GOVERNING AUTHORITY. AN ISOLATION VALVE SHALL BE PROVIDED BETWEEN THE WATER METER AND BACK FLOW DEVICE.
- REFERENCE HUNTER GUIDELINES AND SPECIFICATIONS PRIOR TO INSTALLATION CONFRM REQUIREMENTS FOR CONTROLLER, WATERPROOF CONNECTIONS GROUNDING, SURGE PROTECTORS, DECODERS, VALUES, AND WIRINO PRIOR TO INSTALLATION. HUNTER TECHNICAL SERVICES (760) 591-7383 WWW.HUNTERROUSTRIES.COM
- SPRAY HEADS LOCATED IN TURF AREAS SHALL BE HUNTER PROS-04-PRS30 SPRAY BODIES WITH PRO ADJUSTABLE NOZZLES, FIXED ARC NOZZLES, AND STRIP PATTERN NOZZLES ARTE AND AS INDICATED ON THE PLAN.
- IRRIGATION REMOTE CONTROL VALVES SHALL BE 1" AND/OR 1.5" HUNTER ICV AS INDICATED, PRIOR TO ALL REMOTE CONTROL VALVES, INSTALL A NOMINALLY SIZED BALL VALVE WITHIN THE SAME BOX.
- SIZE OF VALVES ARE AS SHOWN ON PLAN. VALVES SHALL BE INSTALLED I APPROVED BOXES WITH COVERS LARGE ENDUGH TO PERMIT MANUAL OPERATION REMOVAL OF SOLENDIO AND (OP NAUVE COVER WITHOUT ANY PARTH EXCAVATION OWNERS MAY ELECT LOCKING BOXES ON A PROJECT BY PROJECT BASIS.
- QUICK COUPLING VALVES SHALL BE HUNTER INSTALLED PER DETAIL SHOWN. SWING JOINTS SHALL BE CONSTRUCTED USING 3/ SCHEDULE 90 ELBOWS. CONTRACTOR SHALL SUPPLY OWNER WITH THREE (3) CH75 COUPLERS AND THREE (3) HIGHSL SWIVEL HOSE ELLS AS PART OF THIS CONTRACT.
- DRIP IRRIGATION REMOTE CONTROL VALVES SHALL BE HUNTER ICZ-101-LF-40 AS INDICATED. DRIP TUBING SHALL BE HUNTER HDL-06-12-CV.
- INSTALL DRIP TUBINGLINES PER MANUFACTURERS RECOMMENDATIONS. USE PLD-LOC FITTINGS PLD-LOC 075, PLD-LOC 690, PLD-LOC ELB, PLD-LOC CPL, PLD-LOC ACAP, PLD-LOC TEE, PLD-LOC OF USE FIHS BARB FITTINGS PLD-075, PLD-069, PLD-LER, PLD-074, PLD-CR, PLD-CR,
- DRIP TUBING SHALL BE SPACED 18" APART IN SHRUB AREAS. REFER TO MANUFACTURERS RECOMMENDATIONS.
- 17. ROOT BUBBLERS SHALL BE HUNTER RZWS-18-25.
- ALL VALVE CONTROL WIRE SHALL BE SIZED PER MANUFACTURER GUIDELINES BY THE CONTRACTOR ACCORDING TO THE ACTUAL FIELD DISTANCE. ALL CONNECTIONS SHALL BE WATER-PROOF, KEPT TO A MINIMUM, AND LOCATED IN AN APPROVED BOX.

SYMBOL DESCRIPTION MANUFACTURER MODEL NO. REE ROOT BUBBLER SYSTEM RZWS-18-25 850 SERIES IDL DRIPLINE HDL-06-12-CV AFV-B ECO-ID PRESSURE OPERATOR INDICATOR HUNTER

IRRIGATION LEGEND								
SYMBOL	DESCRIPTION							
Ш	1* IRRIGATION METER							
(A)	A HUNTER - PRO-C-12 STATION - PC-1200 WITH RAIN AND FREEZE SENSORS							
H	ISOLATION VALVE							
	LATERAL PIPING	REFER TO PI	.AN	CLASS 200 PVC				
<u> </u>		REFER TO PLAN SCH. 40 DCKS AND AIR/VACUUM REL		O PROTECT MAINLINE SYSTEM)				
======	IRRIGATION SLEEVE, SCH. 40 PVC, MIN. TWICE SIZE OF PIPE TO BE INSERTED, ONE SLEEVE PER PIPE CONTROL WIRING SLEEVE, 2" SCH. 40 PVC							
D1 1"8.8	VALVE STATION # (W VALVE SIZE GPM	HERE D = DRIP TUBING, S = S	SPRAY, R = ROTOR, T = TREE I	DRIP)				

IRRIGATION LEGENT

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4 **■** NOTE:

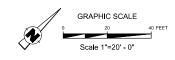
1. ENTIRE SYSTEM SHALL BE INSTALLED PER TCEQ STANDARDS, MANUFACTURER'S SPECIFICATIONS AND ALL CITY CODES.

2. THIS DESIGN IS DIAGRAMMATIC, ALL PIPING, VALVES, AND OTHER EQUIPMENT SHOWN WITHIN PAYED AREAS OR OUT OF PROPERTY BOUNDARIES, ARE FOR DESIGN CLARIFICATION ONLY, AND SHALL BE INSTALLED IN PLANTING AREAS WITHIN THE PROPERTY LINES OR LIMITS NIDICATED ON PLAN. THE IRRIGATION CONTRACTOR SHALL VERIEY THE LOCATIONS OF ALL ABOVE GROUND RRIGATION EQUIPMENT WITH THE OWNERS AUTHORIZED REPRESENTATIVE PRIOR TO INSTALLATION FOR PRIORATION CONTRACTOR MAY BE REQUIRED TO MOVE SUCH TIEMS AT HIS OWN COST.

3. VARIOUS AREAS ON PLAN ARE SHOWING SINGLE HEAD COVERAGE. IF OWNER SHOULD ELECT FOR FULL COVERAGE, CONTRACTOR TO PROCURE THE PROPER PERMITS AND BID ALTERNATE FOR THESE ADDITIONAL SPRAY HEADS, ZONES, AND CONTROLLER EXPANSION FOR THE SYSTEM.

 IRRIGATION SPRAY NOZZLES TO BE ADJUSTED TO AVOID PAVEMEN' BUILDING, WALLS, FENCES, UTILITIES, EQUIPMENT, SIGNAGE, AND CALL BOX REFERENCE LANDSCAPE PLAN FOR LOCATION OF GRAVEL, STEEL EDGING AND ALL PROPOSED PLANT MATERIAL.

8. CONTRACTOR TO TAKE ALL NECESSARY MEASURES TO PREVENT WATER HAMMER AND SYSTEM COLLAPSE BY DISCHARGING AIR DURING STARTUP AND ALLOWING AIR TO ENTER DURING SHUTDOWN. INSTALL THRUST BLOCKS AND AIRVACUUM RELIEF VALVES AS NECESSARY TO PROTECT MAINLINE SYSTEM. INSTALL PER MANUFACTURES BECOMMENDATIONS.





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DATE 05/10/22 SHEET TITLE IRRIGATION PLAN

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OF DEVELOPMENT SERVICES INC.

SHEET L20

1.1 DESCRIPTION

1.2 RELATED WORK

A. SECTION 32 8424 - IRRIGATION SYSTEM.

1.3 REFERENCE STANDARDS

A. AMERICAN STANDARD FOR TESTING AND MATERIALS (ASTM) - LATEST EDITION.

PART 2 - MATERIALS

2.1 GENERAL

- POLYVINYL CHLORIDE PIPE (PVC) SCHEDULE 40 SHALL BE USED FOR ALL SLEEVING PURPOSES.
- PVC PIPES SHALL BE MARKED WITH SDR NUMBER, ASTM STANDARD NUMBER, AND THE NSF SEAL.
- C. SOLVENT SHALL BE USED AS RECOMMENDED BY MANUFACTURER TO MAKE SOLVENT WELDED JOINTS. PIPE AND FITTINGS SHOULD BE CLEANED BEFORE APPLYING SOLVENT.

3.1 INSTALLATION

- A MINIMUM OF TWENTY FOUR (24) INCHES COVER SHALL BE PROVIDED OVER THE TOP OF SLEEVE FROM FINISH GRADE.
- B. SLEEVES SHALL BE EXTENDED ONE (1) FOOT PAST THE EDGE OF PAVEMENT OF WALLS. INSTALL A NINETY DEGREE ELBOW ON EACH SLEEVE AND ADD ADDITIONAL LENGTH TO EXTEND ABOVE FINISH GRADE BY TWELVE (12) INCHES. CAP PIPE ENDS.

- A. BACKFILL SHALL BE PLACED OVER SLEEVES IN SIX (6) INCH LIFTS. SOIL SHALL BE TAMPED INTO PLACE, TAKING CARE TO NOT DAMAGE SLEEVE
- END OF SECTION

SECTION 32 8424 - IRRIGATION SYSTEM

PART 1 - GENERAL

- A. PROVIDE A COMPLETE IRRIGATION SYSTEM INSTALLATION AS DETAILED AND SPECIFIED. THIS SHALL INCLUDE FURNISHING ALL LABOR, MATERIAL, EQUIPMENT AND SERVICES NECESSARY TO PROVIDE COMPLETE INSTALLATION. WORK INCLUDES:
- a. TRENCHING
- b. BACKFILL
- d. AS BUILT DRAWINGS
- SLEEVING AS SHOWN SHALL BE FURNISHED BY THE GENERAL CONTRACTOR.
- C. METER AND POWER SHALL BE PROVIDED BY THE GENERAL CONTRACTOR.

- REFERENCE IRRIGATION PLANS FOR CONTROLLER, HEAD AND ALL VALVE LOCATIONS.
- D. REFERENCE LANDSCAPE PLANS, NOTES, DETAILS FOR ADDITIONAL REQUIREMENTS.

WYF STRAINER

2 DOUBLE CHECK ASSEMBLY

EDGE OF PAVING OR FACE OF WALL

OR FACE OF WALL
MP ROTATOR USE
PROS-04-PRS40 SPRAY BODY
MODEL AND PROS-04-PRS30
FOR SHORT RADIUS,
FOR SHORT RADIUS,
FOR SHORT RADIUS,
MP-800SR = 6-12
MP-800SR = 6-12
MP-1000 = 27-12
MP-3000 = 22'-2'
MP-3000 = 22'-2'
MP-3000 = 22'-30'
MP STRIPS
MP CORNERS

MP CORNERS LABELED AS: RXX (WHERE XX = DISTANCE OF

THROW)
ROTORS USE PGP ULTRA,
PGP-04-PRB MODEL W/
MPR-25, -30, OR -35 NOZZELS
LABELED AS: XXR

- F. SECTION 32-8423 UNDERGROUND IRRIGATION SLEEVE AND UTILITY CONDUITS

AMERICAN STANDARD FOR TESTING AND MATERIALS (ASTM) - LATEST EDITION.

1.4 QUALITY ASSURANCE AND REQUIREMENTS

- A. PERMITS AND FEES: THE CONTRACTOR SHALL OBTAIN AND PAY FOR ANY PERMITS NECESSARY AND ALL OBSERVATIONS AS REQUIRED.
- MANUFACTURER'S DIRECTIONS: MANUFACTURER'S DIRECTIONS AND
 DETAILED DRAWINGS SHALL BE FOLLOWED IN ALL CASES WHERE THE
 MANUFACTURERS OF ARTICLES USED IN THIS CONTRACT FURNISH DIRECTIONS COVERING POINTS NOT SHOWN IN THE DRAWINGS AND SPECIFICATIONS
- ORDINANCES, CODES, AND REGULATIONS: ALL LOCAL, MUNICIPAL AND STATE LAWS, AND RULE AND REGULATIONS GOVERNING OR RELATING TO ANY PORTION OF THIS WORK ARE HEREBY INCCORROBATED INTO AND MADE A PART OF THESE SCIENCIATIONS, AND THEIR PROVISIONS SHALL BE CAMPIED OUT OF THE CONTRACTIONS, AND THEIR PROVISIONS SHALL BE CAMPIED OUT OF THE CONTRACTION, AND THEIR PROVISIONS THE THE CONTRACTION ANY PHINE CONTRACTION THE THE PROVISIONS SHALL BE CAMPIED OUT OF THE CONTRACTION ANY THE PROVISIONS OF THE SAME. THE ABOVE RULES AND REGULATIONS AND REQUIREMENTS OF THE SAME.
- D. HOWEVER, WHEN THESE SPECIFICATIONS AND DRAWINGS CALL FOR OR DESCRIBE MATERIALS, WORKMANSHIP, OR CONSTRUCTION OF A BETTER QUALITY, HIGHER STANDARD OR LARGER SIZE THAN IS REQUIRED BY THE ABOVE RULES AND REGULATIONS, THESE SPECIFICATIONS AND DRAWING SHALL TAKE PRECEDENCE.

1.5 SCHEDULE OF MATERIALS

- A. MATERIALS LIST
- a. ALL EQUIPMENT MANUFACTURERS AND MODEL NUMBERS SHALL BE AS NOTED ON THE PLANS.
- b. THE CONTRACTOR SHALL FURNISH THE ARTICLES, EQUIPMENT, MATERIALS, OR PROCESSES SPECIFIED BY NAME IN THE DRAWINGS AND SPECIFICATIONS. MO SUBSTITUTION WILL BE ALLOWED WITHOUT PRIOR WRITTEN APPROVAL OF THE LANDSCAPE ARCHITECT.
- A COMPLETE MATERIAL LIST OF EQUIPMENT SHALL BE SUBMITTED BEFORE PERFORMING ANY WORK. SUBMITTAL SHOULD INCLUDE ALL MANUFACTURERS' SPECIFICATIONS AND LITERATURE FOR APPROVAL BY THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
- d. EQUIPMENT OR MATERIALS INSTALLED OR FURNISHED WITHOUT PRIOR APPROVAL OF THE LANDSCAPE ARCHITECT MAY BE REJECTED.
- e. APPROVAL OF ANY ITEM, ALTERNATE OR SUBSTITUTE INDICATES ONLY THAT THE PRODUCT OR PRODUCTS APPARENTLY MEET THE REQUIREMENTS OF THE BRAWINGS AND SPECIFICATIONS ON THE BASIS OF THE INFORMATION OR SAMPLES SUBMITTED.
- f. MANUFACTURER'S WARRANTIES SHALL NOT RELIEVE THE CONTRACTOR OF HIS LIABILITY UNDER THE GUARANTEE. SUCH WARRANTIES SHALL ONLY SUPPLEMENT THE GUARANTEE.

- A. CONTRACTOR SHALL PROVIDE AND KEEP UP TO DATE AND COMPLETE "AS-BUILT" RECORD SET OF PRINTS.
- B. CONTRACTOR SHOULD USE ALL SYMBOLS AND NOTATIONS CONSISTENT WITH THE ORIGINAL DRAWINGS.
- C. IN "AS-BUILT" DRAWINGS, CONTRACTOR SHALL LOCATE
- b. CONNECTION TO ELECTRICAL POWER c. GATE VALVES

DOUBLE CHECK VALVE ASSEMBLY (REFERENCE PLAN FOR SIZE & TYPE)

SCHEDULE 40, BRASS OR GALVANIZED NIPPLE AS REQUIRED

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HICK LAYER OF GRAVE

METER BOX

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NOTE:

1. INSTALL BACKFLOW PREVENTER AS REQUIRED BY LOCAL CODES AND HEALTH DEPARTMENT. VERIFY LOCAL REQUIREMENTS PRIOR TO INSTALLATION. PRIOR TO BACKFLOW PREVENTER, INSTALL A NOMINALLY SIZED ISOLATION VALVE.

MODEL: PROSOL-PRSSO WI PRO ADJUSTABLE NOZILES AS

NOTE:

1. MAY NOT BE USED IN LANDSCAPE AREAS LESS THAN FORTY-EIGHT INCHES

(48") IN LENGTH OR WIDTH.

7 POP-UP SPRAY BODY OR POP-UP ROTOR

- e. SPRINKLER CONTROL VALVES
- f OHICK COUPLING VALVES
- g. OTHER RELATED EQUIPMENT
- SUBMIT COMPLETED TRACINGS PRIOR TO FINAL ACCEPTANCE. DATE AND SIGN ALL DRAWINGS.
- E. EQUIPMENT TO BE FURNISHED: a. SUPPLY AS PART OF THIS CONTRACT THE FOLLOWING TOOLS
- QUICK COUPLING KEYS, THREE (3) WITH BOILER DRAINS ATTACHED USING BRASS REDUCER.
- ii. THREE (3) KEYS FOR EACH AUTOMATIC CONTROLLER
- b. THE ABOVE MENTIONED EQUIPMENT SHALL BE TURNED OVER TO THE OWNER AT THE CONCLUSION OF THE PROJECT. THE IRRIGATION CONTRACTOR SHOULD DEMONSTRATE THAT THE FINAL INSTALLED SYSTEM WILL OPERATE ACCORDING TO THE INTENT OF THE DESIGNED AND SPECIFIED SYSTEM, RIRIGATION CONTRACTOR SHALL GUARANTEE 100% COVERAGE TO ALL AREAS TO BE IRRIGATION.
- 1.5 MAINTENANCE AND GUARANTEE

SETTLEMENT

- MAINTENANCE AND WORKMANSHIP SHALL BE GUARANTEED FULLY FOR ONE (1) YEAR AFTER FINAL ACCEPTANCE.
- B. PROVIDE MAINTENANCE OF SYSTEM, CLEANING AND ADJUSTMENT OF THE HEADS, FOR ONE (1) YEAR AFTER COMPLETION OF INSTALLATION. GUARANTEE IS LIMITED TO REPAIR AND REPLACEMENT OF DEFECTIVE MATERIALS AND WORKMANSHIP, INCLUDING THE REPAIR OF BACKFILL

- A. PERFORM TESTING REQUIRED WITH OTHER TRADES INCLUDING EARTHWORK, PAVING, PLUMBING, ETC. TO AVOID CUTTING, PATCHING OR BORING.
- B. WATER PRESSURE SHOULD BE FOUND PRIOR TO STARTING CONSTRUCTION, DETERMINE/CONFIRM THAT STATIC WATER PRESSURE IS MORE THAN THE WATER PRESSUR REDED FOR THE SYSTEM TO FUNCTION PROPERTY. IF STATIC PRESSURE IS LESS THAN THE DESIGN PRESSURE NEEDED, DO NOT START WORK UNTIL THE LANDSCAPE ARCHITECT IS NOTIFIED.

1.7 COORDINATION

- COORDINATE INSTALLATION OF ALL PRODUCTS, INCLUDING EARTHWORK, PAVING AND PLUMBING.
- B. COORDINATE TO ENSURE THAT ELECTRICAL POWER SOURCE IS IN PLACE.
- C. COORDINATE INSTALLATION WITH WORK SPECIFIED IN OTHER SECTIONS.
- COORDINATE WITH THE LANDSCAPE CONTRACTOR TO ENSURE PLAN MATERIAL IS UNIFORMLY WATERED IN ACCORDANCE WITH INTENT SHOWN ON DRAWINGS.

PART 2 - PRODUCTS

2.1 MATERIALS

- B. REFER TO CONSTRUCTION DRAWINGS AND NOTES
- SPRINKLER HEADS IN LAWN AREAS AS SPECIFIED ON PLAN
- D. PVC PIPE: CLASS 200 SPR 21
- E. COPPER TUBING (FOR CITY CONNECTIONS): TYPE "M"

IRRIGATION VALVE BOX: HEAT STAMP LID WITH 'RCV' IN 2" LETTERS

- ISOLATION VALVE FINISH GRADE AT ADJACENT SURFACE (TURF OR MULCH)

SCH, 80 CLOSE NIPPLE, SIZE PER RCV

RRIGATION VALVE BOX: HEAT STAMP

SCH. 80 CLOSE NIPPLE, MATCH SIZE TO VALVE

- F. 24V WIRE SIZE 14, TYPE UF
- G. ELECTRIC VALVES TO BE ALL PLASTIC CONSTRUCTION AS INDICATED ON PLANS.
- H. REFER TO DRAWING FOR BACKFLOW PREVENTION LOCATION COORDINATE EXACT LOCATION WITH THE GENERAL CONTRACTOR.

WATERPROOF

3/4" WASHED GRAVEL - 4" MIN. DEPTH

3 IN-LINE VALVE (ICV) WITH ISOLATION VALVE

SCH. 80 CLOSE NIPPLE, SIZE PER RCV

WATERPROO CONNECTORS (2

PVC SLIP X MPT ADAPTOR

PVC SLIP X FPT ADAPTOR ~

A SITE CONDITIONS

- ALL SCALED DIMENSIONS ARE APPROXIMATE. THE CONTRACTOR SHALL CHECK AND VERIFY ALL SIZE DIMENSIONS.
- b. EXERCISE EXTREME CARE IN EXCAVATING AND WORKING NEAR UTILITIES.
 CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGES TO UTILITIES
 WHICH ARE CAUSED BY ANY OF HIS OPERATIONS OR NEGLECT.
- GROUNDCOVERS. COORDINATE WORK WITH OTHER SITE CONTRACTORS

A. PHYSICAL LAYOUT:

- PIPING AND HEAD LAYOUT AS SHOWN ON PLANS IS SCHEMATIC ONLY.
 ALL PIPES TO BE INSTALLED DIRECTLY BEHIND CURBS, WALKS AND WALLS
 WHEREVER POSSIRI F
- b. PRIOR TO INSTALLATION CONTRACTOR SHALL STAKE OUT ALL PRESSURE SUPPLY LINES, ROUTING AND LOCATION OF SPRINKLER HEADS.
- ALL LAYOUTS SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT OR OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.

B. WATER SUPPLY:

- a. IRRIGATION SYSTEM SHALL BE CONNECTED TO WATER SUPPLY POINTS OF CONNECTION AS INDICATED ON THE DRAWINGS.
- CONNECTIONS SHOULD BE MADE AT APPROXIMATE LOCATIONS AS SHOWN ON DRAWINGS. CONTRACTOR SHALL VERIFY IN FIELD AND BE RESPONSIBLE FOR MINOR CHANGES CAUSED BY ACTUAL SITE CONDITIONS.

3.3 INSTALLATION

- a. DIG TRENCHES STRAIGHT 6" WIDE WITH NEAR VERTICAL SIDE AND SUPPORT PIPE CONTINUOUSLY ON BOTTOM OF TRENCH. REMOVE LUMBER, RUBBISH, LARGE ROCKS ETC. FROM TRENCHES. LAY PIPE TO AN EVEN GRADE WITH A FIRM, UNIFORM BEARING FOR ENTIRE LENGTH OF PIPE.
- REMOVE FOREIGN MATTER OR DIRT FROM INSIDE OF PIPE BEFORE WELDING AND KEEP PIPING CLEAN BY ANY MEANS POSSIBLE DURING AND AFTER LAYING OF PIPE.
- PROVIDE A MINIMUM OF EIGHTEEN (18) INCHES OF COVER FOR ALL PRESSURE SUPPLY LINES.
- d. PROVIDE A MINIMUM OF TWELVE (12) INCHES OF COVER FOR ALL NON-PRESSURE LINES.
- PROVIDE A MINIMUM COVER OF EIGHTEEN (18) INCHES FOR ALL CONTROL WIRING.
- f. NO MACHIET RENCHING, UNLESS APPROVED BY THE LANDSCAPE ARCHITECT, SHALL BE DONE WITHIN DRIP LINE OF EXISTING THE TRENCHING SHOULD BE DONE BY HAND, TUNNELING OR BORING OR OTHER METHODS APPROVED BY THE LANDSCAPE ARCHITECT. IT SHOULD BE UNDERSTOOD THAT PRIPIG LAND ITS DIAGRAMMATE AND PIPPING SHALL BE ROUTED AROUND TREES AND SHRUBS IN SUCH A MANNER TO AVIOL DAMAGE TO PLANTS.

- a. TRENCHES SHALL NOT BE BACKFILLED UNTIL ALL REQUIRED TESTS ARE PERFORMED. TRENCHES SHALL BE CAREFULLY BACKFILLED WITH THE EXCAVATED MATERIALS APPROVED FOR BACKFILLING, CONSISTING OF EARTH, LOAM, SANDY CLAY, SAND OR OTHER APPROVED MATERIALS, FREE FROM LARGE CLOSS, STONES OR STICKS.
- b. IF SETTLEMENT OCCURS AND SUBSEQUENT ADJUSTMENTS IN PIPE, VALVES, SPRINKLER HEADS, LAWN OR PLANTING OR OTHER

- TRENCHING AND BACKFILL UNDER PAVING:
- ALL IRRIGATION MAIN LIAR AND LATERAL LINES OR WIRING LOCAT UNDER AREAS WHERE PAVING, ASPHALTIC PAVING, OR CONCRETE SI BE INSTALLED IN SCHEDULE 40 PVC SLEEVES OF ADEQUATE SIZE. SEE SECTION 32, 82473 SECTION 32 8423.

D. ASSEMBLIES

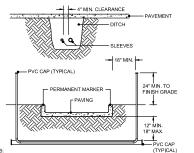
- INSTALL ALL ASSEMBLIES SPECIFIED HEREIN IN ACCORDANCE WITH RESPECTIVE DETAILS. IN ABSENCE OF DETAIL DRAWINGS OR SPECIFICATIONS, PERFORM SUCH WORK IN ACCORDANCE WITH BES
- MAKE SOLVENT WELDED JOINTS USING ONLY THE SOLVENT RECOMMENDED BY THE MANUFACTURER. PIPES AND FITTINGS SHOULD BE CLEANED OF ALL DIRT AND DUST AND MOISTENED BEFORE APPLYING
- ON PVC TO METAL CONNECTIONS, THE CONTRACTOR SHALL WORK METAL CONNECTIONS, THE CONTRACTOR SHALL WORK
 METAL CONNECTIONS FIRST, USE NON HARDENING PIPE DOPE OR
 TEFLON TAPE ON THEADED PVC ADAPTERS INTO WHICH PIPE MAY BE
 WELDED. LIGHT WERECH PRESSURE IS ALL THAT IS REQUIRED, USE
 THREADED PVC ADAPTERS INTO WHICH THE PIPE MAY BE WELDED.
- LINE CLEARANCE: ALL LINES SHALL HAVE A MINIMUM CLEARANCE OF SIX (6) INCHES FROM EACH OTHER AND FROM OTHER TRADES. PARALLEL LINES SHALL NOT BE DIRECTLY INSTALLED ONE OVER THE OTHER.
- SHALL MOT BE DIRECLET INSTALLED UNE OVER THE UTHER.
 WIRNING: SUPPLY WIRE FROM THE AUTOMATIC CONTROLLER TO ALL THE
 VALVES. A SEPARATE WIRE IS REQUIRED TO BEACH ELECTRIC VALVE. A
 COMMON NEUTRAL WIRE IS ALSO REQUIRED FROM EACH CONTROL TO
 EACH OF THE VALVES. BUILDED MULTIPLE WHITES AND TAPE THEM
 TOGETHER AT THE THOR THE TRYANS. SEPANSION COLS OF TEN INCHES
 SHALL BE INSTALLED APPROXIMATELY EVERY 100 FEET. MAKE ALL SPLICES
 WATERPRODO.
- G. AUTOMATIC CONTROLLER: INSTALL AS PER MANUFACTURER'S SPECIFICATIONS AND INSTRUCTIONS, REMOVE CONTROL VALVES SHALL BE CONNECTE TO CONTROLLER IN NUMERICAL SEQUENCE AS SHOWN ON THE DRAWMINGS. EACH REMOVE CONTROL VALVE SHALL BE WIRED TO ONE STATION OF THE CONTROLLER.

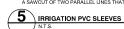
H. REMOTE CONTROL VALVES:

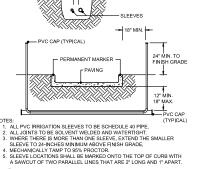
- a. INSTALL WHERE SHOWN ON DRAWINGS AND DETAILS. VALVES SHALL BE SIZED ACCORDING TO THE DRAWINGS.
- INSTALL IN A LEVEL POSITION IN ACCORDANCE TO MANUFACTURER'S SPECIFICATIONS.
- c. WHEN GROUPED TOGETHER, ALLOW AT LEAST TWELVE (12) INCHES BETWEEN VALVES, INSTALL EACH REMOTE CONTROL VALVE IN A SEPARATE VALVE BOX. EACH VALVE NUMBER AND ITS CONTROLLER LETTER SHALL BE STENCILED INSIDE VALVE BOX TOP WITH EXTERIOR PAINT.

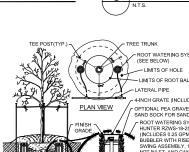
FLUSHING OF SYSTEM

- a. AFTER ALL NEW SPRINKLER PIPE LINES AND RISERS ARE IN PLACE AND CONNECTED, ALL NECESSARY WORK HAS BEEN COMPLETED, AND PRIOR TO INSTALLATION OF SPRINKLER HEADS, THE CONTROL VALVES SHALL BE OPENED AND A FOLL HEAD OF WATER USED TO FLUSH OUT THE SYSTEM.
- SPRINKLER HEADS:
- INSTALL HEADS AS DESIGNED ON THE DRAWINGS. MAKE APPROPRIATE
 ADJUSTMENTS TO HEAD LAYOUT TO ACCOMMODATE FOR ACTUAL FIELD
 CONDITIONS.
- SPACING OF HEADS SHALL NOT EXCEED THE MAXIMUM INDICATED ON THE DRAWINGS. IN NO CASE SHALL THE SPACING EXCEED THE MAXIMUM









11 TREE ROOT WATERING SYSTEM

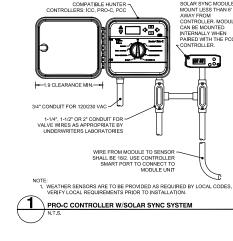
- LIMITS OF ROOT BALL 4-INCH GRATE (INCLUDED) 1/2-INCH 90-DEGREI ELBOW (INCLUDED) 1/2-INCH MALE NPT INLET (INCLUDED) BUBBLER: HUNTER 0.25 GPM (INCLUDED) PVC TEE OR EL 4-INCH BASKET WEAVE -CANISTER (INCLUDED) 12-INCH SWING ASSEMBLY (INCLUDED) ELEVATION

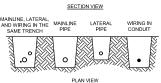
AWN Designs, LLC P.O. Box 1746 Aledo, Texas 76008 amanda@awr-designs.c

RECOMMENDED BY THE MANUFACTURER. ALL SPRINKLERS TO ATTACH TO LATERAL LINES WITH FLEXIBLE CONNECTORS. REFERENCE DETAILS ON DRAWINGS.

- A. THE CONTRACTOR SHALL TEST SPRINKLER MAIN FOR TWELVE TO
 FOUNTEEN HOURS UNDER NORMAL PRESSURE. IF LEAKS ARE PRESENT,
 REPLACE JOINT OR JOINS AND REPEAT TEST. A COMPLETE TEST SHALL BE MADE PRIOR TO BACKFILLING. BACKFILLIN
 MATERIALS MAY BE PLACED IN TRENCHES IN LIFTS TO ENSURE STABILITY
 OF THE LINE UNDER THE PRESSURE OF BACKFILL. IN EACH CASE, LEAVE
- ... WHEN SYSTEM IS COMPLETE, A COVERAGE TEST SHALL BE PERFORMED IN THE PRESENCE OF THE LANDSCAPE ARCHITECT OR OWNERS REPRESENTATIVE IS HALL BE DETERMINED IF THE WATER COVERAGE FOR ALL PLANTING AREA IS COMPLETE AND ADEQUATE. FURNISH ALL MATERIALS AND PERFORM ALL WORK REQUIRED TO CORRECT ANY INDEQUACES OF COVERAGE.
- UPON COMPLETION OF EACH PHASE OF WORK, THE ENTIRE SYSTEM SHOULD BE TESTED AND ADJUSTED TO MEET SITE REQUIREMENTS.

END OF SECTION





ALL SOLVENT WELD PLASTIC PIPING TO
BE SNAKED IN
TRENCH AS SHOWN.

NOTES:

1. SLEEVE BELOW ALL HARDSCAPE ELEMENTS WITH SCH 40 PVC TWICE THE DIAMETER OF THE PIPE OR WIRE BUNDLE WITHIN.

2. FOR PIPE AND WIRE BURIAL DEPTHS. SEE SPECIFICATIONS. MINIMUM - 12° 3. BACKFILL AND COMPACT TRENCHES TO ORIGINAL GRADE. 6 PIPE AND WIRING TRENCHING

TIE A 24-INCH LOOP IN ALL WIRING



* SWG CHECKED DATE 05/10/22 SHEET TITLE IRRIGATION SPECS/DETAILS L DRAWN AND WRITTEN INFORMATION
PEARING HEREIN SHALL NOT BE
JPLICATED, DISCLOSED, OR OTHERWI
SED WITHOUT THE WRITTEN CONSENT
OF DEVELOPMENT SERVICES INC.

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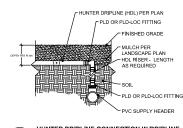
L202

ROOT WATERING SYSTEM (SEE BELOW) OPTIONAL PEA GRAVEL OR RWS SAND SOCK FOR SANDY SOILS ROOT WATERING SYSTEM: HUNTER RZWS-18-25 or -36-25 (INCLUDES 0.25 GPM BUBBLER WITH RISER, GRATE, SWING ASSEMBLY, 172" MALE NPT INLET, AND CANISTER)

FINISHED GRADE FLEX TURING

FPLD OR PLD-LOC FITTING FINISHED GRADE PLD OR PLD-LOC FITTING

C SLIP X MPT ADAPTO INLINE AND FITTINGS 3/4" WASHED GRAVEL - 4" MIN DEPTH DRIP CONTROL ZONE KIT W/ ISOLATION VALVE



OPENING 18.72*

4 STANDARD VALVE BOXES







