

GENERAL NOTES – PARKS**IRRIGATION AND LANDSCAPE****IRRIGATION****IRRIGATION – GENERAL**

ALL WORK SHALL CONFORM TO TOWN OF ERIE STANDARDS AND SPECIFICATIONS AND WITH THE ACCEPTED PLANS. REFER TO THESE STANDARDS FOR ADDITIONAL INFORMATION AS NEEDED. A COPY OF THESE SPECIFICATIONS SHALL BE AVAILABLE ON THE WORK SITE AT ALL TIMES.

THE DEVELOPER/ARCHITECT SHALL ENSURE THAT THE IRRIGATION PLAN IS COORDINATED WITH PLANS DONE BY OTHERS SO THE PROPOSED GRADING, DRAINAGE WORK, OR OTHER CONSTRUCTION DOES NOT CONFLICT NOR PRECLUDE INSTALLATION AND MAINTENANCE OF LANDSCAPE ELEMENTS ON THIS PLAN.

STORM WATER BEST MANAGEMENT PRACTICES SHALL CONFORM TO STATE OF COLORADO REQUIREMENTS. ALL STORM WATER REPORTS AND REQUIRED PAPERWORK SHALL ADHERE TO ALL STATE OF COLORADO REQUIREMENTS.

THE CONTRACTOR SHALL CERTIFY THAT THE GRADE IS WITHIN PLUS OR MINUS ONE-TENTH (1/10TH) OF THE FINAL GRADING PLAN PRIOR TO COMMENCEMENT OF ANY LANDSCAPE OR IRRIGATION WORK.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMITS, FEES, AND LICENSES ASSOCIATED WITH THE WORK AS SHOWN ON THE PLANS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR UTILITY LOCATIONS PRIOR TO ANY EXCAVATION.

ANY REVISION TO THE IRRIGATION PLAN SHALL BE REVIEWED AND APPROVED BY THE PARKS & RECREATION DIRECTOR OR DESIGNEE PRIOR TO IMPLEMENTATION.

THE CONTRACTOR SHALL HAVE ACCEPTED SET OF PLANS AND MUST HAVE HELD A PRE-CONSTRUCTION MEETING WITH THE TOWN OF ERIE PARKS DIVISION PRIOR TO THE COMMENCEMENT OF ANY AND ALL WORK.

THE CONTRACTOR SHALL WARRANTY THE WORKMANSHIP AND IRRIGATION SYSTEM FOR A PERIOD OF TWO YEARS.

DO NOT DISTURB PAVING, LIGHTING, LANDSCAPE OR IRRIGATION THAT EXISTS ADJACENT TO THE SITE UNLESS OTHERWISE NOTED ON PLANS.

THE CONTRACTOR SHALL IDENTIFY, VERIFY AND PROTECT CONTROL POINT. CONTRACTOR SHALL VERIFY LOCATION OF CONTROL POINT WEEKLY AND THE ORIGINAL CONDITION OF CONTROL POINT PIN SHALL BE MAINTAINED THROUGHOUT ENTIRE PROJECT. LOCATION AND G.P.S. COORDINATES OF THE CONTROL POINT SHALL BE IDENTIFIED ON ALL PLANS AND AS-BUILTS.

THE IRRIGATION SYSTEM SHALL BE INSTALLED AFTER SOIL PREPARATION AND PRIOR TO PLANT MATERIALS.

IRRIGATION – INSPECTIONS

FOR TOWN OF ERIE MAINTAINED TRACTS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SCHEDULING AND COORDINATION OF ALL REQUIRED INSPECTIONS WITH THE TOWN OF ERIE. REFER TO TOWN OF ERIE STANDARDS AND SPECIFICATIONS FOR ALL REQUIRED INSPECTIONS.

FOR TOWN OF ERIE MAINTAINED TRACTS, THE CONTRACTOR SHALL GIVE THE TOWN FORTY-EIGHT (48) HOURS NOTICE TO VISIT THE SITE AND PERFORM ALL INSPECTIONS. THIS DOES NOT PRECLUDE THE RIGHT OF THE TOWN TO MAKE INFORMAL INSPECTIONS AT ANY TIME. (LANDSCAPE – THE CONTRACTOR SHALL NOTIFY THE TOWN FOR INSPECTIONS OF MATERIAL AND SOIL PREPARATION)

THE IRRIGATION SYSTEM SHALL PASS A MAINLINE PRESSURE TEST AND COVERAGE TEST AND A WATERING SCHEDULE WITH RUN TIMES AND APPLICATION RATES SHALL BE SUBMITTED PRIOR TO SODDING, SEEDING, OR PLANTING.

CONTRACTOR SHALL SCHEDULE PRESSURE TEST AT COMPLETION OF MAINLINE, MAINLINE SHALL HOLD AT ONE HUNDRED TWENTY (120) P.S.I. FOR TWO (2) HOURS.

ALL HOA/METRO DISTRICT MAINTAINED TRACTS SHALL BE INSPECTED BY A COLORADO LANDSCAPE ARCHITECT IN GOOD STANDING AND PAID FOR BY THE DEVELOPER. ALL TOWN OF ERIE LANDSCAPE ACCEPTANCE PROCEDURES SHALL BE FOLLOWED.

IRRIGATION – AS-BUILTS

APPROVED CONSTRUCTION DRAWINGS SHALL BE ON SITE AND UPDATED DAILY WITH AS-BUILT MARKUPS. CONTRACTOR SHALL MAKE AS-BUILTS AVAILABLE ON SITE TO TOWN STAFF FOR REVIEW AND INSPECTION IMMEDIATELY UPON REQUEST.

RECORD ALL CHANGES WHICH ARE MADE FROM THE CONTRACT DRAWINGS. RECORD ALL REQUIRED INFORMATION ON AS-BUILT DRAWINGS. DO NOT USE THESE PRINTS FOR ANY OTHER PURPOSE.

CONTRACTOR SHALL SUBMIT A RED LINED PAPER SET OF AS-BUILTS FOR REVIEW TO THE PARKS & RECREATION DIRECTOR OR DESIGNEE AND WILL NOT PROCEED WITH THE PRODUCTION OF FINAL MYLARS UNTIL ACCEPTANCE AND ANY REQUIRED CHANGES HAVE BEEN MADE.

CONTRACTOR SHALL SUBMIT REPRODUCIBLE MYLARS, FOUR (4) MIL THICKNESS, DOUBLE MATTED REVERSE FILM, (24" X 36") (SEPIA'S NOT ACCEPTABLE), AND AN ELECTRONIC VERSION (CD/THUMB DRIVE) OF AS-BUILT PLAN DRAWINGS IN AUTOCAD AND PDF COMPATIBLE FORMAT PRIOR TO ENTERING THE WARRANTY PERIOD.

CONTRACTOR SHALL SUBMIT A FULL SET OF AS-BUILTS, WITH THE ACCURACY ATTESTED TO BY A REGISTERED PROFESSIONAL ENGINEER LICENSED TO PRACTICE IN COLORADO. ALL OF THE "AS-BUILT" DRAWINGS SHALL CONTAIN THE FOLLOWING STATEMENT:

THIS PLAN AND THE INFORMATION CONTAINED HEREON ACCURATELY REPRESENTS THE "AS-BUILT" CONDITION OF THE IMPROVEMENTS AS SHOWN AS OF (DATE).

BY: _____ P.E. NO. _____
JOHN DOE

FOR FURTHER INFORMATION SEE SECTION 200 – ACCEPTANCE PROCEDURES OF THE TOWN OF ERIE STANDARDS AND SPECIFICATIONS.

IRRIGATION – MATERIALS

REPLACEMENT PARTS SHALL MATCH PARTS BEING REPLACED, NO ALTERNATIVES WILL BE ALLOWED.

CONTROLLER GROUND WIRE SHALL BE NUMBER SIX (#6) BARE COPPER WIRE AND EIGHT (8) FEET AWAY FROM THE CONTROLLER PAD.

COMMON WIRE SHALL BE NUMBER TWELVE (#12) UF SINGLE STRAND DIRECT BURIAL PVC JACKETED COPPER WIRE.

IRRIGATION – INSTALLATION

FOR TOWN OF ERIE MAINTAINED TRACTS, CONTRACTOR SHALL CONTACT PARKS DIVISION PRIOR TO COMMENCEMENT OF ANY AND ALL WORK.

FOR TOWN OF ERIE MAINTAINED TRACTS, CONTRACTOR SHALL CONTACT PARKS DIVISION PRIOR TO INSTALLATION OF BACKFLOW DEVICE/METER PIT.

ALL COPPER BELOW GRADE SHALL BE SILVER SOLDERED AT ELEVEN HUNDRED FORTY-FIVE (1145) DEGREES (BRAZED).

LOOP WIRE IN TRENCH EVERY ONE HUNDRED (100) FEET AND AT EVERY CHANGE IN DIRECTION OF PIPE.

ALL MAINLINE SHALL HAVE TWENTY-FOUR (24) INCH COVER, ROTOR LATERAL LINES SHALL HAVE EIGHTEEN (18) INCH COVER, AND POP-UPS SHALL HAVE TWELVE (12) INCH COVER.

ALL VALVES SHALL BE WITHIN THREE (3) INCHES FROM THE BOTTOM OF VALVE BOX LID AND THREE (3) INCH MINIMUM OF DEPTH FROM THE BOTTOM OF THE VALVE TO THE GRAVEL LAYER IN THE VALVE BOX.

ALL VALVE BOXES SHALL BE SET TO FINAL GRADE.

ALL QUICK COUPLERS SHALL BE AT PROPER OPERATING HEIGHT AND STAKED WITH REBAR AND SECURED WITH HOSE CLAMPS.

ALL VALVE BOXES SHALL BE BRANDED WITH ASSOCIATED VALVE NUMBER.

ALL LINES (PIPE AND ELECTRICAL) SHALL BE SLEEVED UNDER HARDSCAPES.

IRRIGATION – MAINTENANCE

THE CONTRACTOR SHALL ENSURE THAT ALL PLANT MATERIALS, SOD, AND SEEDED AREAS ARE WATERED AS NECESSARY UNTIL FINAL ACCEPTANCE HAS BEEN GRANTED.

CONTRACTOR SHALL BE RESPONSIBLE FOR MONTHLY WATER APPLICATION ADJUSTMENTS, CLEANING OF ALL FILTERS AND SCREENS, ANNUAL BACKFLOW PREVENTION TESTING, AND SPRING TURN ON AND WINTER BLOW OUTS DURING THE WARRANTY PERIOD.

CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF ALL MAINTENANCE DURING THE WARRANTY PERIOD.

LANDSCAPE

LANDSCAPE – GENERAL

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GRAPHIC SYMBOLS SHALL PRESIDE OVER WRITTEN PLANT QUANTITIES.

ALL TREE SPECIES SHALL BE FROM THE TOWN OF ERIE APPROVED TREE LIST.

NATIVE PLANTS SHALL BE USED IN NATIVE SEED AREAS. REFER TO STANDARDS AND SPECIFICATIONS FOR COMPLETE SPECIES LIST.

ALL STREET TREE SPECIES AND THEIR LOCATIONS SHALL BE APPROVED BY THE PARKS & RECREATION DIRECTOR OR DESIGNEE FOR TREES PLANTED ADJACENT TO RESIDENTIAL HOMES WHETHER THEY ARE INSTALLED BY THE DEVELOPER, CONTRACTOR, OR HOMEOWNER.

NO ASH TREES SHALL BE PLANTED UNDER ANY CIRCUMSTANCES.

LANDSCAPE – INSPECTIONS

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SOD SHALL BE INSTALLED FOR A MINIMUM OF THREE (3) WEEKS PRIOR TO CALLING FOR INSPECTIONS.

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LANDSCAPE – MATERIAL SPECIFICATIONS

SUBMITTALS

CONTRACTOR SHALL FURNISH MATERIAL SAMPLES (MULCH, AMENDMENTS, EDGING, ETC.) UPON REQUEST BY THE TOWN

MULCH

WOOD CHIP MULCH SHALL BE OF A HIGH QUALITY FIBROUS NATURE, SUCH AS SHREDDED WOOD CHIPS OR SHAVINGS, WHICH ARE BETWEEN ONE (1) INCH AND FOUR (4) INCHES IN LENGTH. MULCH SHALL BE CLEAN AND FREE OF SOIL OR MAN-MADE DEBRIS.

ROCK MULCH SHALL BE CLEAN, THREE-QUARTER (3/4) TO THREE (3) INCH ROUNDED, WASHED RIVER ROCK, ROCK COBBLE SHALL BE TWO TO FOUR (2-4) INCH OR THREE TO SIX (3-6) INCH WASHED COBBLE ROCK MULCH AND COBBLE SHALL BE CLEAN AND FREE OF SOIL OR MAN-MADE DEBRIS AND SHALL BE OF GOOD QUALITY. ALL ROCK MULCH OR COBBLE SAMPLES SHALL HAVE THE SIZE, PRODUCT NAME AND SUPPLIER LISTED WITH THE SAMPLE PROVIDED.

EDGING

EDGING SHALL BE THREE-SIXTEENTHS BY SIX (3/16 X 6) INCH GREEN PAINTED STEEL.

STAKING MATERIALS

STAKES: SIX (6) FOOT STEEL TEE POSTS FOR DECIDUOUS TREES.
TWO (2) FOOT STEEL TEE POSTS FOR EVERGREEN TREES

- WIRES: A DOUBLE STRAND OF NUMBER TWELVE (12) GAUGE GALVANIZED WIRE.
- NYLON STRAPS: ONE AND ONE-HALF INCH (1½) WIDE NYLON STRAP WITH EYELETS AT EACH END.

LANDSCAPE FABRIC

ALL LANDSCAPE FABRIC SHALL BE TYPAR 3401 OR MIRAFI MIRASCAPE GEO-TEXTILE POLYPROPYLENE FABRIC OR AN APPROVED EQUIVALENT.

ALL SEAMS IN THE FABRIC SHALL OVERLAP A MINIMUM OF TWELVE (12) INCHES. LANDSCAPE FABRIC PINS WILL BE USED A MINIMUM OF EVERY THREE (3) FEET ALONG THE EDGE OF THE FABRIC AS WELL AS A MINIMUM OF THREE (3) FEET ON CENTER THROUGHOUT THE FABRIC.

SOD

SOD SHALL CONSIST OF A BLEND OF AT LEAST FOUR (4) VARIETIES OF BLUEGRASS. THIS BLEND IS TO BE APPROVED BY THE PARKS & RECREATION DIRECTOR OR DESIGNEE.

SOD SHALL BE STRONGLY ROOTED AND FREE OF NOXIOUS WEEDS, UNDESIRABLE PLANTS, ROOTS, STONES, AND OTHER FOREIGN MATERIALS THAT WILL BE DETRIMENTAL OR WILL HINDER THE PROPER DEVELOPMENT OF THE SOD. SEE SECTIONS 1023.00 AND 1043.00 WITHIN THE TOWN OF ERIE STANDARDS AND SPECIFICATIONS FOR FURTHER INFORMATION.

EXECUTION

SOIL AMENDMENTS

PRIOR TO THE INSTALLATION OF PLANT MATERIAL, SOD, OR SEED, THE CONTRACTOR SHALL THOROUGHLY TILL EXISTING MATERIALS. THE CONTRACTOR SHALL THEN THOROUGHLY INCORPORATE ORGANIC AMENDMENTS AT A RATE OF FIVE (5) CU. YARDS PER THOUSAND (1000) FEET FOR ALL LANDSCAPED AREAS AND AT A RATE OF THREE (3) CU. YARDS PER THOUSAND (1000) FEET FOR ALL NATIVE AREAS.

THE FOLLOWING IS A LIST OF THE REQUIRED SOIL PREPARATION INSPECTIONS IN THEIR ORDER:

1. THE CONTRACTOR SHALL CERTIFY THAT THE GRADE IS WITHIN PLUS OR MINUS ONE-TENTH (1/10TH) OF THE FINAL GRADING PLAN PRIOR TO COMMENCEMENT OF ANY LANDSCAPE OR IRRIGATION WORK.
2. DURING OR AFTER FIRST CULTIVATION
3. AFTER APPLICATION OF SPECIFIED ORGANIC MATERIALS
4. DURING OR AFTER SECOND CULTIVATION

5. AFTER FINAL GRADE IS COMPLETED

ANY WORKMANSHIP DEEMED BY THE TOWN TO BE FAULTY OR NOT IN ACCORDANCE WITH THE ACCEPTED PLANS AND THE TOWN OF ERIE STANDARDS AND SPECIFICATIONS SHALL BE CORRECTED AT THIS TIME.

FOR TOWN OF ERIE MAINTAINED TRACTS, THE TOWN SHALL INSPECT ALL MANURE ORGANIC MATERIALS, SEED AND SEED TAGS, MULCH, AND FERTILIZER UPON DELIVERY TO THE SITE. ANY UNSATISFACTORY MATERIALS SHALL BE REMOVED AND REPLACED WITH MATERIALS CONFORMING TO THE STANDARDS AND SPECIFICATIONS. WEIGHT TICKETS FOR ALL MATERIALS SHALL BE SUBMITTED TO THE TOWN AND CONFIRMATION IS REQUIRED BY TOWN INSPECTORS PRIOR TO SPREADING THE MATERIALS.

NATIVE SEEDING

DORMANT NATIVE SEEDING WITH STANDARD MIXTURES OF COOL-SEASON AND WARM-SEASON GRASSES (TABLES 1-7) MUST OCCUR BETWEEN OCTOBER 30TH AND APRIL 30TH. IN ORDER TO EXTEND THE SEEDING WINDOW AND MINIMIZE EROSION ON PROJECTS, SEEDING OF WARM-SEASON GRASSES ONLY WILL BE ALLOWED BETWEEN APRIL 1ST AND JUNE 15TH AND MIXTURES CONTAINING COOL-SEASON GRASSES ONLY WILL BE ALLOWED BETWEEN AUGUST 1ST AND SEPTEMBER 15TH AND APRIL 30TH AT PREVAILING RATES TO PROVIDE A FULL MIXTURE OF BOTH COOL AND WARM SEASON GRASSES. PERMISSION FOR EXCEPTIONS TO THIS SEEDING TIME MUST BE OBTAINED PRIOR TO SEEDING FROM THE PARKS & RECREATION DIRECTOR OR DESIGNEE. NO SEEDING SHALL BE DONE WHEN THE SOIL IS FROZEN, SNOW COVERED OR EXCESSIVELY WET.

ALL NATIVE SEED AREAS ADJACENT TO TALL TRAILS AND ROADS SHALL BE PLANTED WITH TOWN OF ERIE SPECIFIED SHORTGRASS PRAIRIE NATIVE SEED MIX WITHIN FIFTEEN (15) FEET OF EDGE OF TRAILS AND ROADS.

MOIST SWALE SEED MIX IS IN ADDITION TO MIXED GRASS PRAIRIE NATIVE AND SHORTGRASS PRAIRIE NATIVE SEED MIX IN AREAS REQUIRING, PER TOWN OF ERIE STANDARDS AND SPECIFICATIONS.

SEEDING, MOWING AND WEED CONTROL SHALL ALL BE CARRIED OUT AS DETAILED IN THE TOWN OF ERIE STANDARDS AND SPECIFICATIONS.

CONTRACTOR SHALL APPLY BIOSOL AT A RATE OF EIGHT HUNDRED (800) POUNDS PER ACRE TO ALL NATIVE AREAS IMMEDIATELY FOLLOWING SEEDING AND PRIOR TO THE APPLICATION OF HYDRO-MULCH.

HYDRO-MULCH SHALL BE WOOD CELLULOSE FIBER TYPE AND SHALL BE APPLIED AT THE MINIMUM RATE OF TWO THOUSAND FIVE HUNDRED (2,500) POUNDS PER ACRE WITH A MINIMUM RATE OF ONE HUNDRED FIFTY (150) POUNDS

PER ACRE TACKIFIER AND SHALL BE APPLIED IMMEDIATELY AFTER SEED APPLICATION.

STRAW CONSISTING OF SEVENTY-FIVE (75) PERCENT STRAWS LONGER THAN TEN (10) INCHES MAY BE USED ON NATIVE SEEDING. IT SHALL BE APPLIED EVENLY OVER THE SEEDED SURFACE AT THE MINIMUM RATE OF TWO (2) TONS PER ACRE AND PARTIALLY EMBEDDED INTO THE SOIL USING A CRIMPER OR SIMILAR IMPLEMENT.

ALL HYDRO-MULCH SHALL BE REMOVED FROM ALL PLANT MATERIALS, FENCES, CONCRETE AND OTHER AREAS EXCEPT FOR SEED BED. OVERLY DENSE APPLICATIONS OF STRAW MULCH, OR WINDROWS OF LOOSE STRAW MULCH WHICH MAY SMOTHER SEEDLING GRASSES, MUST BE COLLECTED AND REMOVED. STRAW MULCH BLOWN ONTO ADJACENT RESIDENTIAL AREAS SHALL BE REMOVED BY THE LANDSCAPER RESPONSIBLE FOR THE PROJECT.

ALL NATIVE SEED SHALL RECEIVE TEMPORARY IRRIGATION UNTIL SEED IS ESTABLISHED.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING BARRIERS AND SIGNS AS REQUIRED TO PROTECT SEEDED AREAS FROM PEDESTRIAN AND VEHICULAR DAMAGE.

THE CONTRACTOR SHALL WARRANTY ALL NATIVE SEEDED AREAS FOR CONSISTENCY AND COMPLETION OF COVERAGE. THE STANDARD OF ACCEPTABLE ESTABLISHMENT SHALL BE AT LEAST SIX (6) DESIRABLE SEEDED PLANT SEEDLINGS PER SQUARE FOOT. ALL BARE AREAS SHALL BE RE-SEEDED AND RE-MULCHED.

ANY REMAINING PEAT, SOIL, SAND, ROCK, OR SIMILAR MATERIAL WHICH HAS BEEN BROUGHT ONTO THE SITE BY WORK OPERATIONS OR OTHERWISE SHALL BE REMOVED, AND ALL OTHER REMAINING DEBRIS WILL BE DISPOSED OF. ALL GROUND AREA DISTURBED SHALL BE RENOVATED TO ITS ORIGINAL CONDITION OR TO THE REQUIRED NEW CONDITION.

PLANT MATERIALS

PLANT MATERIALS

ALL PLANT MATERIAL SHALL COMPLY WITH THE AMERICAN STANDARD FOR NURSERY STOCK ANSI Z60.1-2004.

PLANTS SHALL EXHIBIT GOOD ANNUAL GROWTH AND BUDS SHALL BE PLUMP AND WELL FITTED FOR THE SPECIES. FOLIAGE SHALL BE FULL AND DISPLAY A HEALTHY AND CONSISTENT COLOR WHEN IN LEAF. EVERGREEN FOLIAGE WILL BE GOOD INTENSE COLOR.

PLANT TAGS STATING THE CORRECT PLANT NAME AND SIZE SHALL BE SECURELY ATTACHED TO ALL PLANT MATERIALS. PLANTS SHALL BE TRUE TO THEIR NAME AS SPECIFIED. PLANT MATERIALS NOT MEETING THESE STANDARDS ARE SUBJECT TO REJECTION.

ALL DECIDUOUS TREES SHALL BE TWO (2) INCH CALIPER OR LARGER. ALL ORNAMENTAL TREES SHALL BE ONE AND A HALF (1.5) INCH CALIPER OR LARGER. CALIPER MEASUREMENT SHALL BE TAKEN SIX (6) INCHES ABOVE THE ROOT FLARE IF FOUR (4) INCHES OR LESS AND TWELVE (12) INCHES ABOVE THE ROOT FLARE FOR LARGER TREE SIZES.

ALL EVERGREEN TREES SHALL BE A MINIMUM OF SIX (6) FEET TALL OR LARGER. HEIGHT DIMENSIONS REFER TO THE MAIN BODY OF THE TREE, FROM THE ROOT COLLAR AND ABOVE.

SHRUBS SHALL BE FIVE (5) GALLON CONTAINERS OR LARGER.

PERENNIALS AND GROUNDCOVERS SHALL BE ONE (1) GALLON CONTAINER OR LARGER.

- ANY CHANGES IN SPECIES AND PLANT LOCATIONS SHALL BE SUBMITTED TO THE PARKS & RECREATION DIRECTOR OR DESIGNEE FOR REVIEW AND APPROVAL. OVERALL QUALITY AND DESIGN CONCEPT SHALL BE CONSISTENT WITH APPROVED LANDSCAPE DESIGN.
- ALL NEW AND REPLACEMENT PLANT MATERIALS REQUIRE INSPECTION AND SHALL BE TAGGED BY THE PARKS & RECREATION DIRECTOR OR DESIGNEE FOR ALL TOWN OF ERIE MAINTAINED AREAS PRIOR TO PLANTING. CONTACT APPROPRIATE TOWN OF ERIE STAFF TO ARRANGE FOR MATERIALS TO BE TAGGED.
- PLANT MATERIALS SHALL BE LIVE, HEALTHY, VIGOROUS, STRUCTURALLY SOUND, AND FREE OF DISEASE AND INSECT INFESTATIONS. PLANT MATERIALS NOT MEETING THESE STANDARDS SHALL BE SUBJECT TO REJECTION AND SHALL BE REPLACED.
- REPLACEMENT OF PLANT MATERIALS SHALL OCCUR AT THE FOLLOWING RATE:

TYPE	1 YEAR	2 YEAR
DECIDUOUS TREE	INCREASE CALIPER BY ONE (1) INCH	INCREASE CALIPER BY ONE AND ONE HALF (1.5) INCH
EVERGREEN TREE	INCREASE HEIGHT BY ONE AND ONE HALF (1.5) FOOT	INCREASE HEIGHT BY TWO (2) FEET

PLANTING PROCEDURES

OPTIMUM PLANTING PERIODS ARE FROM MARCH 15 TO JUNE 15 AND FROM SEPTEMBER 1 TO OCTOBER 15.

STORAGE

TREES SHALL BE PLANTED AS SOON AS POSSIBLE. IF NOT PLANTED ON THE DAY OF DELIVERY ALL PLANTS SHALL BE PLACED IN A TEMPORARY NURSERY, IRRIGATED DAILY, SHADED AND PROTECTED FROM SUN OR WIND. BALLED AND BURLAPPED TREES SHALL BE HEELED IN WITHIN 24 HOURS OF DELIVERY IN A COMPACT GROUP WITH SUITABLE MULCH MATERIAL PLACED AROUND AND BETWEEN THE BALLS SO THEY ARE COMPLETELY COVERED. NO PLANT SHALL REMAIN ON THE JOB SITE IN TEMPORARY STORAGE FOR OVER A MONTH.

EXCAVATION

TREE PITS SHALL BE EXCAVATED A MINIMUM OF TWO (2) TIMES GREATER THAN THE DIAMETER OF THE ROOT BALL AND SHALL BE SAUCER SHAPED.

IF TREE PITS ARE DUG UTILIZING MECHANICAL EQUIPMENT, EDGES OF PLANTING HOLE SHALL BE FLARED DOWN TO CREATE A SAUCER SHAPED PLANTING PIT AND THE SIDES OF THE HOLE SHALL BE SCORED TO PREVENT GLAZING OR COMPACTION OF PLANTING HOLE.

THE DIAMETER OF ALL SHRUB PLANTING PITS SHALL BE TWELVE (12) INCHES GREATER IN DIAMETER THAN THE DIAMETER OF THE CONTAINER.

PLANTING DEPTH

THE ROOT FLARE SHALL BE IDENTIFIED ON ALL TREES PRIOR TO PLANTING TO ASSURE THAT THE HOLE HAS BEEN DUG TO THE PROPER DEPTH – AND NO MORE. THE PLANTING PIT SHALL BE DEEP ENOUGH TO ALLOW FOR THE ROOT FLARE TO REMAIN TWO (2) INCHES HIGHER THAN THE SURROUNDING FINISH GRADE.

SHRUB PITS SHALL BE EXCAVATED SO THAT THE TOP OF THE BALL SHALL BE ONE (1) INCH ABOVE FINISH GRADE AND AMENDED AS SHOWN ON THE PLANTING DETAIL.

PERENNIAL OR GROUNDCOVER PLANTS SHALL BE PLANTED ONE (1) INCH ABOVE FINISHED GRADE WITHIN THE AMENDED SOIL. THE CONTRACTOR SHALL INSTALL PERENNIAL OR GROUNDCOVER PLANTS TAKING NOTE OF REQUIRED ON-CENTER SPACING AND REQUIRED DISTANCES FROM EDGES.

PLANTING

THE ROOT BALL SHALL BE PLACED ON FIRM, UNDISTURBED SOIL IN THE PLANTING PIT TO PREVENT SETTLING. ALL PLANTS SHALL BE SET PLUMB AND STRAIGHT AND IN THE CENTER OF THE PITS AND FACED FOR THE BEST EFFECT.

ALL TWINE, ROPE, BURLAP, AND WIRE FROM ENTIRE ROOT BALL OF BALLED AND BURLAPPED STOCK SHALL BE REMOVED.

ALL CONTAINERS SHALL BE REMOVED PRIOR TO BACKFILLING. THIS INCLUDES ANY ORGANIC MANUFACTURED CONTAINERS. IF THE ROOT SYSTEM OF A CONTAINER GROWN PLANT HAS BECOME CONTAINER-BOUND, THE ROOTS SHALL BE CUT VERTICALLY ON A MINIMUM OF TWO (2) SIDES OF THE ROOT MASS PRIOR TO PLANTING.

PLANTING PIT BACKFILL MIXTURE SHALL CONSIST OF TWO (2) PARTS OF EXCAVATED NATIVE SOIL AND ONE (1) PART ORGANIC SOIL AMENDMENT.

ALL PLANT TAGS, FLAGGING TAPE, LABELS, STRING, ETC. SHALL BE REMOVED FROM ALL PLANT MATERIALS.

MULCH

ALL DECIDUOUS TREES SHALL HAVE A SOD-FREE BASE AT LEAST FOUR (4) FEET IN DIAMETER AND EVERGREENS SHALL HAVE A SOD-FREE BASE EXTENDING TO THE DRIP LINE. MULCH SHALL BE THREE (3) INCHES DEEP AND SHALL BE PLACED TWO (2) INCHES FROM AND NOT MAKE CONTACT WITH TREE TRUNKS.

COBBLE AND WOOD MULCH SHALL BE SEPARATED BY THREE-SIXTEENTHS BY SIX (3/16 X 6) INCH GREEN STEEL EDGING.

PRUNING

ALL PRUNING SHALL COMPLY WITH ANSI A300 STANDARDS AND SHALL BE ONLY PERFORMED BY AN I.S.A. CERTIFIED TREE WORKER OR ARBORIST. CONTRACTOR SHALL REMOVE AND REPLACE EXCESSIVELY PRUNED OR MALFORMED STOCK RESULTING FROM IMPROPER PRUNING.

WATERING

THE CONTRACTOR SHALL ENSURE THAT ALL PLANT MATERIALS, SOD, AND SEEDED AREAS ARE WATERED AS NECESSARY UNTIL FINAL ACCEPTANCE HAS BEEN GRANTED.

ALL PLANT MATERIALS SHALL BE GIVEN SUPPLEMENTAL WATER AS REQUIRED THROUGHOUT THE WINTER MONTHS.

FERTILIZATION

TREES AND SHRUBS SHALL NOT BE FERTILIZED DURING INSTALLATION OR FOR THE FIRST TWELVE (12) MONTHS FOLLOWING INSTALLATION.

STALKING

ALL DECIDUOUS TREES SHALL BE STALKED FOR TWELVE (12) MONTHS AND EVERGREEN TREES FOR TWENTY-FOUR (24) MONTHS. CONTRACTOR IS RESPONSIBLE FOR PERIODICALLY RE-TENSIONING AND THE REMOVAL OF TREE STAKES THROUGHOUT THIS PERIOD.

WEEDING

ALL TREE WELLS, SHRUB, AND PERENNIAL BEDS; SEEDED AND SODDED AREAS; AND AREAS WHERE GRAVEL, ROCK OR WOOD MULCH IS TO BE USED AS A GROUND COVER SHALL BE KEPT FREE OF GRASS AND WEEDS.

SOD

THE MAINTENANCE OF SODDED AREAS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR UNTIL FINAL ACCEPTANCE HAS BEEN GRANTED. MAINTENANCE SHALL CONSIST OF REPAIR AND REPLACEMENT OF ERODED AREAS, WATERING, MOWING (WHEN THE SOD IS ESTABLISHED). WEEDING, FERTILIZING, AND RE-SODDING AS NECESSARY TO PROVIDE AN EVEN, CONSISTENT STAND OF GRASS. ALL REPLACEMENT SODDING DEEMED NECESSARY BY THE TOWN WILL BE DONE BY THE CONTRACTOR.

THE CONTRACTOR SHALL MAINTAIN A MOWING HEIGHT OF THREE INCHES (3) FREQUENCY OF MOWING SHALL BE DETERMINED BY THE GROWTH RATE OF THE GRASS BUT AT NO TIME SHOULD THE CLIPPINGS EXCEED TWO INCHES (2) IN LENGTH.

LITTER REMOVAL

THE CONTRACTOR SHALL COLLECT AND REMOVE ALL LITTER AND TRASH FROM THE AREA WEEKLY AT HIS OWN EXPENSE.

PLEASE SEE TABLES BELOW FOR NATIVE SEED MIXTURES.

TABLE 1. MIXED GRASS PRAIRIE NATIVE SEED MIXTURE: FOR USE IN OPEN SPACE NATIVE SEEDING AT LEAST FIFTEEN (15) FEET AWAY FROM ROAD AND TRAIL EDGES. THIS MIXTURE IS FOR GENERAL USAGE, IS DOMINATED BY SHORT TO MID-SIZED NATIVE PRAIRIE GRASSES (6-18 INCHES IN HEIGHT), BUT INCLUDES A FEW TALLER SPECIES (UP TO 36 INCHES). BEST FOR USE IN LARGER OPEN SPACE AREAS. BE SURE TO OVERSEED ANY SWALES OR MOIST AREAS WITHIN THIS SEEDING TYPE WITH THE MOIST SWALE SEED MIXTURE (TABLE 3). WHILE SEEDING IS PREFERRED BEGINNING IN LATE WINTER (AFTER FEBRUARY 1ST), THIS MIXTURE MAY BE USED BETWEEN OCTOBER 30TH AND APRIL 30TH ONLY WITHOUT SUPPLEMENTAL IRRIGATION. IF ADEQUATE SUPPLEMENTAL IRRIGATION IS IN PLACE, THIS MIXTURE MAY BE SEEDED THROUGH JUNE 15TH.

COMMON NAME	SCIENTIFIC NAME	VARIETY	OZ/ACRE	PLS LBS/ACRE
Buffalo grass	<i>Buchloe dactyloides</i>	Native, Bison or Texoka		3
Sideoats grama	<i>Bouteloua curtipendula</i>	Butte, Niner or El Reno		5
Prairie sandreed	<i>Calamovilfa longifolia</i>	Goshen or Bowman		1
Blue grama	<i>Chondrosum gracile</i>	Lovington, Alma,Native or Hachita		3
Western wheatgrass	<i>Pascopyrum smithii</i>	Arriba or Rosana		5
Little bluestem	<i>Schizachryium scoparium</i>	Pastura, Cimarron, Aldous Camper		4
Alkali sacaton	<i>Sporobolus airoides</i>	Common		1
Sand dropseed	<i>Sporobolus cryptandrus</i>	Common		1
Switchgrass	<i>Panicum virgatum</i>	Blackwell		5
SEEDING RATE POUNDS PLS/ACRE				28
Optional Addition of Native Wildflowers				
Fringed sage	<i>Artemisia frigida</i>	Common	1	
Purple prairie clover	<i>Dalea purpurea</i>	Common	6	
Blanketflower	<i>Gaillardia aristata</i>	Common	6	
Gayfeather	<i>Liatris punctata</i>	Common	4	
Tansy aster	<i>Machaeranthera tanacetifolia</i>	Common	3	
Prairie coneflower	<i>Ratibida columnifera</i>	Common	3	
OUNCES			23	1.4375
SEEDING RATE POUNDS PLS/ACRE WITH NATIVE WILDFLOWERS OPTION				29.4375

TABLE 2. SHORTGRASS PRAIRE NATIVE SEED MIXTURE: FOR USE IN OPEN SPACE NATIVE SEEDING LESS THAN FIFTEEN (15) FEET FROM ROAD AND TRAIL EDGES. THIS MIXTURE IS FOR SPECIFIC USAGE NEAR TRAILS OR WHERE SHORTER GRASSES ARE DESIRED (SUCH AS SMALLER PARK SITES). IT IS DOMINATED BY SHORT TO MID-SIZED NATIVE PRAIRIE GRASSES (6-18 INCHES IN HEIGHT). BEST FOR USE ALONG ROADS AND TRAILS AND IN SMALLER NATIVE SEEDING PARK AREAS. BE SURE TO OVERSEED ANY SWALES OR MOIST AREAS WITHIN THIS SEEDING TYPE WITH THE MOIST SWALE SEED MIXTURE (TABLE 3). WHILE SEEDING IS PREFERRED BEGINNING IN LATE WINTER (AFTER FEBRUARY 1ST) THIS MIXTURE MAY BE USED BETWEEN OCTOBER 30TH AND APRIL 30TH ONLY WITHOUT SUPPLEMENTAL IRRIGATION. IF ADEQUATE SUPPLEMENTAL IRRIGATION IS IN PLACE, THIS MIXTURE MAY BE SEEDING THROUGH JUNE 15TH.

COMMON NAME	SCIENTIFIC NAME	VARIETY	OZ/ACRE	PLS LBS/ACRE
Buffalo grass	<i>Buchloe dactyloides</i>	Native, Bison or Texoka		14
Blue grama	<i>Chondrosum gracile</i>	Lovington Alma, Native, or Hachita		12
Sand dropseed	<i>Sporobolus cryptandrus</i>	Common		4
SEEDING RATE POUNDS PLS/ACRE				30
<u>Optional Addition of Native Wildflowers</u>				
Fringed sage	<i>Artemisia frigida</i>	Common	1	
Purple prairie clover	<i>Dalea purpurea</i>	Common	4	
Gayfeather	<i>Liatris punctata</i>	Common	4	
Tansy aster	<i>Machaeranthera tanacetifolia</i>	Common	3	
OUNCES			12	0.75
SEEDING RATE POUNDS PLS/ACRE WITH NATIVE WILDFLOWERS OPTION				30.75

TABLE 3. MOIST SWALE SEED MIXTURE: THIS MIXTURE IS INTENDED TO BE SEEDED OVER THE TOP OF EITHER TABLE 1 OR TABLE 2 SEED MIXTURES IN LOCATIONS WHICH MAY BE MOIST AT LEAST SOME OF THE YEAR (SUCH AS POND EDGES, SMALL OR LARGER SWALES OR DITCHES WITHIN THE OPEN SPACE AREAS OR ALONG ROADS, IN DETENTION OR RETENTION BASINS, OR ALONG THE INNER BANKS OF IRRIGATION DITCHES. BE SURE TO SEED ONE OF THE OTHER SEED MIXTURES FIRST AND THEN ADD THIS MIXTURE TO PROVIDE ADEQUATE SPECIES ADAPTED TO MOIST CONDITIONS. THIS MIXTURE MAY BE USED BETWEEN OCTOBER 30TH AND JUNE 15TH WITHOUT SUPPLEMENTAL IRRIGATION, AND FROM JUNE 16TH THROUGH JULY 31ST IF ADEQUATE SUPPLEMENTAL IRRIGATION IS PRESENT AND ACCEPTABLE TO THE PARKS & RECREATION DIRECTOR OR DESIGNEE.

COMMON NAME	SCIENTIFIC NAME	VARIETY	PLS LBS/ACR
Woolly sedge	<i>Carex lanuginosa</i>	Native	0.5
Nebraska sedge	<i>Carex nebrascensis</i>	Native	0.1
Blue grama	<i>Chondrosum gracile</i>	Lovington, Alma,Native or Hachita	1.5
Buffalo grass	<i>Buchloe dactyloides</i>	Native, Bison or Texoka	0.5
Inland saltgrass	<i>Distichlis stricta</i>	Native	0.5
Baltic rush	<i>Juncus balticus</i>	Native	0.1
Prairie cordgrass	<i>Spartina pectinata</i>	Native	1
Alkali sacaton	<i>Sporobolus airoides</i>	Native	3
Switchgrass	<i>Panicum virgatum</i>	Blackwell	3
Western wheatgrass	<i>Pascopyrum smithii</i>	Arriba or Rosana	5
SEEDING RATE POUNDS PLS/ACRE			15.2
Optional Addition of Native Wildflowers			
Aster	<i>Aster laevis</i>		0.05
Yarrow	<i>Achillea millefolium</i>	Western	0.05
Prairie coneflower	<i>Ratibida columnifera</i>		0.05
SEEDING RATE POUNDS PLS/ACRE WITH NATIVE WILDFLOWER OPTION			15.35

TABLE 4. ROADSIDE NATIVE SEED MIXTURE: THIS MIXTURE IS INTENDED FOR USE FOR SEEDING OF PUBLIC WORKS ROADSIDE RE-VEGETATION PROJECTS. IT IS AN ADAPTABLE MIX OF SHORT TO MID-SIZED NATIVE AND INTRODUCED WARM AND COOL SEASON GRASSES. USE FOR PUBLIC WORKS ROADSIDE AND RIGHT-OF-WAY SEEDING PROJECTS ONLY. THIS MIXTURE MAY BE USED BETWEEN OCTOBER 30TH AND APRIL 30TH ONLY.

COMMON NAME	SCIENTIFIC NAME	VARIETY	PLS LBS/ACRE
Western wheatgrass	<i>Pascopyrum smithii</i>	Arriba or Rosana	8.0
Crested wheatgrass	<i>Agropyron cristatum</i>	Ephriam	5.0
Streambank wheatgrass	<i>Elymus lanceolatus</i>	Sodar	5.0
Sideoats grama	<i>Bouteloua gracilis</i>	Butte, Niner or El Reno	2.0
Blue grama	<i>Bouteloua gracilis</i>	Lovington, Alma, Native or Hachita	5.0
Buffalo grass	<i>Buchloe dactyloides</i>	Native, Bison or Texoka	3.0
Sand dropseed	<i>Sporobolus cryptandrus</i>	Common	1.0
SEEDING RATE POUNDS PLS/ACRE			29.0

TABLE 5. WARM SEASON MIXED GRASS PRAIRIE NATIVE SEED MIXTURE: FOR USE IN OPEN SPACE NATIVE SEEDING AT LEAST FIFTEEN (15) FEET AWAY FROM ROAD AND TRAIL EDGES. THIS MIXTURE IS FOR GENERAL USAGE, IS DOMINATED BY SHORT TO MID-SIZED NATIVE PRAIRIE GRASSES (6-18 INCHES IN HEIGHT), BUT INCLUDES A FEW TALLER SPECIES (UP TO 36 INCHES). BEST USED IN LARGER OPEN SPACE AREAS. THIS MIXTURE IS TO BE USED BETWEEN APRIL 1ST AND JUNE 15TH ONLY, UNLESS SUFFICIENT SUPPLEMENTAL IRRIGATION IS PRESENT. IRRIGATION MUST BE APPROVED BY PARKS & RECREATION DIRECTOR OR DESIGNEE. IF IRRIGATION IS PRESENT, MIXTURE CAN BE SEEDED BETWEEN JUNE 16TH AND JULY 31ST.

COMMON NAME	SCIENTIFIC NAME	VARIETY	PLS POUNDS/ACR E
Side Oats Grama	<i>Bouteloua curtipendula</i>	Butte, Niner or El Reno	7
Blue Grama	<i>Bouteloua gracilis</i>	Lovington, Alma,Native or Hachita	4
Buffalograss	<i>Buchloe dactyloides</i>	Native, Bison or Texoka	4
Switchgrass	<i>Panicum virgatum</i>	Blackwell	7
Little Bluestem	<i>Schizachyrium scoparium</i>	Pastura, Aldous,Cimarro n or Camper	6
Sand Dropseed	<i>Sporobolus cryptandrus</i>	Common	2
SEEDING RATE POUNDS PLS/ACRE			30.00

TABLE 6. WARM SEASON SHORTGRASS PRAIRIE AND ROADSIDE NATIVE SEED MIXTURE: THIS MIXTURE IS AN ADAPTABLE MIX OF SHORT TO MID-SIZE NATIVE WARM SEASON GRASSES WITH SPECIFIC USAGE NEAR TRAILS OR WHERE SHORTER GRASSES ARE DESIRED (SUCH AS SMALLER PARK SITES). IT IS DOMINATED BY SHORT TO MID-SIZED NATIVE PRAIRIE GRASSES (6-18 INCHES IN HEIGHT). USE FOR AREAS WITHIN FIFTEEN (15) FEET FROM OF TRAILS, AS WELL AS FOR PUBLIC WORKS ROADSIDE AND RIGHT-OF-WAY SEEDING PROJECTS BETWEEN THE MONTHS OF APRIL 1ST AND JUNE 15TH ONLY, UNLESS SUFFICIENT SUPPLEMENTAL IRRIGATION IS PRESENT. IF SUFFICIENT IRRIGATION IS PRESENT AS DETERMINED BY THE PARKS & RECREATION DIRECTOR OR DESIGNEE, THIS MIXTURE CAN BE SEEDED BETWEEN JUNE 16TH AND JULY 31ST.

COMMON NAME	SCIENTIFIC NAME	VARIETY	PLS POUNDS/ACRE
Side Oats Grama	<i>Bouteloua curtipendula</i>	Butte, Niner or El Reno	7
Blue Grama	<i>Bouteloua gracilis</i>	Lovington, Alma, Native or Hachita	4
Buffalograss	<i>Buchloe dactyloides</i>	Native, Bison or Texoka	4
Switchgrass	<i>Panicum virgatum</i>	Blackwell	7
Little Bluestem	<i>Schizachyrium Scoparium</i>	Pastura, Aldous, Cimarron or camper	6
Sand Dropseed	<i>Sporobolus cryptandrus</i>	Common	2
SEEDING RATE POUNDS PLS/ACRE			30.00

TABLE 7. COOL SEASON GRASS NATIVE SEED MIXTURE: THIS MIXTURE SHALL BE USED FOR MIXED GRASS PRAIRIE, MOST SWALE AND ROADSIDE LOCATIONS ONLY BETWEEN THE DATES OF AUGUST 1ST AND SEPTEMBER 15TH. AREAS ADJACENT TO TRALS SHALL BE SEEDED WITH THE STANDARD SHORTGRASS PRAIRIE NATIVE SEED MIXTURE BETWEEN THE MONTHS OF OCTOBER 30TH AND APRIL 30TH ONLY.

COMMON NAME	SCIENTIFIC NAME	VARIETY	PLS POUNDS/ACRE
Western Wheatgrass	<i>Pascopyrum smithii</i>	Arriba or Rosana	12
Crested Wheatgrass	<i>Agropyron cristatum</i>	Ephriam	9
Streambank Wheatgrass	<i>Elymus lanceolatus</i>	Sodar	9
SEEDING RATE POUNDS PLS/ACRE			30.00