



Scale: 1" = 35'-0"

PLANT SCHEDULE

SHRUE	S			
SYM	COMMON NAME / BOTANICAL NAME PLANTING			
0	GREAT BASIN WILDRYE/LEYMUS CINERUS	1 gallon		
0	SAND DROPSEED/SPOROBOLUS CRYPANDRUS	1 gallon		
0	BEE BALM/MONARDA MENTHAEFOLIA	1 gallon		
0	GIANT PURPLE SAGE/SALVIA PACKYPHYLLA	1 gallon		
•	GOLDENEYE/VIGUIERA DENTATA	1 gallon		
*	GOLDENROD/SOLIDAGO VIRGAUREA	1 gallon		
0	HOARY TOWNSEND'S DAISY/TOWNSENDIA INCANA	1 gallon		
0	INDIAN RICEGRASS/ORYZOPSIS HYMENOIDES	1 gallon		
٥	ORANGE GLOBEMALLOW/SPHAERALCEA MUNROANA	1 gallon		
	FIRECRACKER PENSTEMON/PENSTEMON EATONII	1 gallon		
•	SAGEBRUSH PENSTEMON/PENSTEMON SPECIOSUS	1 gallon		
*	ROCKY MOUNTAIN PENSTEMON/PENSTEMON STRICTUS 1 gallo			
€	BROOM SNAKEWEED/GUTIERREZIA SAROTHRAE 1 gallon			
۰	SULFER-FLOWER BUCKWHEAT/EROGONUM UMBELLATUM 1 gallor			
0	THREADLEAF GIANT HYSSOP/AGASTACHE RUPESTRIS	1 gallon		
0	TUFTED EVENING PRIMROSE/OENOTHERA CAESPITOSA	1 gallon		
⟨;;	DESERT FERNBUSH/CHAMAEBATIARIA MILLEFOLIUM	1 gallon		
	BUTTERFLY MILKWEED/ASCLEPIAS TUBEROSA	1 gallon		
0	RUBBER RABBITBRUSH/CHRYSOTHAMNUS NAUSEOSUS	1 gallon		
(3)	CURL LEAF MOUNTAIN MAHOGANY/CERCOCARPUS LEDIFOLIUS 5 gallon			



, EXISTING SHELTERS AND BUILDING

EXISTING PICNIC TABLE

LANDSCAPE NOTES

- ALL EXISTING TURF SHALL BE REMOVED AND REPLACED WITH $2-3^\circ$ DEPTH LAYER OF LARGE CHUNK BARK MULCH (PROVIDE MULCH SAMPLE PRIOR TO DELIVERY TO SITE).
- THIS DESIGN AS SHOWN IS INTENDED TO BE PERMANENTLY IRRIGATED BY MEANS OF AN AUTOMATIC IRRIGATION SYSTEM COMPOSED OF HIGH PERFORMANCE LOW-VOLUME LANDSCAPE DRIPLINE. THE EXISTING REPREZATION WHERE SQUIRES AND CONTROL SYSTEM SHALL REMAIN. THE IRRIGATION MAINLINE AND ALL CONTROL VALVES SHALL BE REPLACED. RE: IRRIGATION PLAN.

SHEET NOTES

- BROVE DISTING METER

 ORDERED NO CONSISTE FIND.

 COMPATTION ACCESSATE NAME OF THE STATEMENT OF THE STATEMENT NAMED FIND. STATEMENT NAMED FIND STATEMENT NAMED FOR THE STATEMENT OF THE STATEMENT O

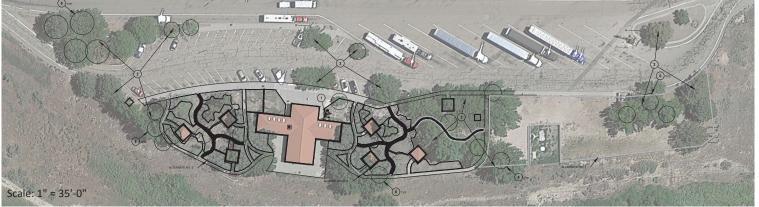
ALTERNATES



LANDSCAPE PLAN

20304 Design Package | L10





IRRIGATION SCHEDULE

SYMBOL	MANUFACT	MODEL	DESCRIPTION
No.	RAINBIRD	CONTROL ZONE KIT, FILTER, PRV. XCZ-PRB-100-COM (3-20 GPM).	
	RAINBIRD	XFS SUBSURFACE DRIPLINE	XFS-09-18 DRIPLINE AT 18" SPACING
C	RAINBIRD	ESP-LXD	IRRIGATION CONTROLLER-PEDESTAL MOUNT IN BUILDING MECHANICAL ROOM. (REPLACE EXISTING CONTROLLER)
⊕•	BUCKNER	VBM SERIES	ISOLATION VALVE-LINE SIZE
A	BUCKNER	VBM SERIES - 3/4"	MANUAL DRAIN VALVE
7	WILKINS	MODEL 950XL	DOUBLE CHECK VALVE BACKFLOW PREVENTER INSTALL PER LOCAL CODES AND CONDITIONS.
	PWPIPE (OR EQUAL)	PVC CLASS 200	2" MAINLINE (SIZE MAY VARY BASED ON WATER SOURCE AVAILABILITY)
	PWPIPE (OR EQUAL)	PVC CLASS 200	LATERAL PIPE-WATER VELOCITY SHALL NOT EXCEED 5' PER SECOND
	PWPIPE (OR EQUAL)	PVC CLASS 200	4" SLEEVES OR 2 SIZES LARGER THAN PIPE. 2" FOR ELECTRIC VALVE WIRING
•	RAINBIRD	33DRC QC VALVE 33 DK VALVE KEY SH=0 HOSE SWIVEL	QUICK COUPLING VALVE WITH ASSOCIATED VALVE KEY, AND HOSE SWIVEL

VALVE SCHEDULE



IRRIGATION NOTES

SHEET NOTES

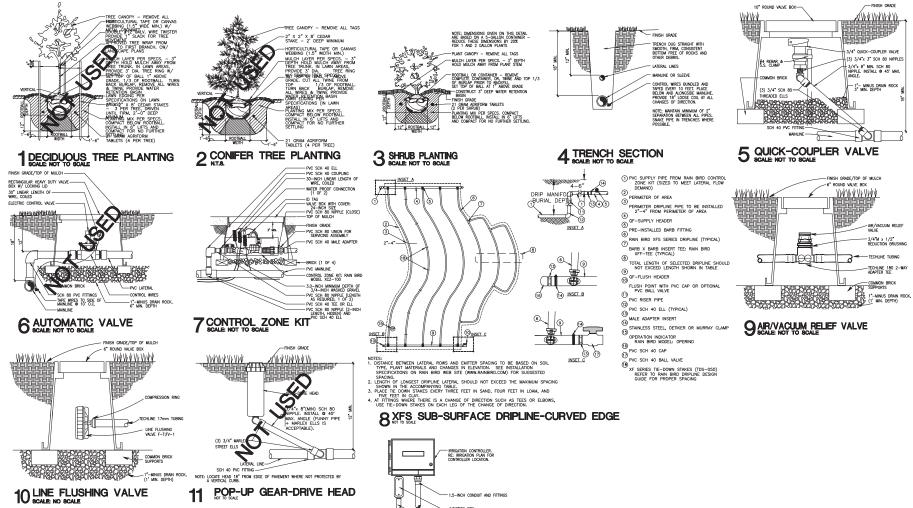


IRRIGATION PLAN

Design Package | L20 20304

IDAHO TRANSPORTATION DEPARTMENT





WIRES TO REMOTE CONTROL VALVES -CONDUIT TO POWER SUPPLY. RE: ELECTRICAL PLANS. EXTEND CONDUIT TO ELECTRICAL PANEL. 120 VOLT POWER W/ 15 AMP BREAKER (UIN) REQUIRED. SIZE WIRE AS REQUIRED BASED ON DISTANCE FROM CONTROLLER TO PANEL.

12 CONTROLLER-WALL MOUNT



PART 1 - GENERAL

1.1 SUMMARY

A. This Section includes valves, piping, sprinklers, specialties, accessories, controls, and wiring for lawn and landscape irrigation systems. B. Related Sections: The following Sections contain requirements that relate to this Section

Division 22, Section "Plumbing" for water supply.
 Division 26, Sections for electrical power materials and installations.

1.2 SYSTEM PERFORMANCE REQUIREMENTS

A Location of Sprinklers and Devices: Design location is approximate. Make minor adjustments necessary to avoid plantings and obstructions such as signs and light standards.

Minimum Water Coverage: Not less than:
1. Turf Areas: 100 percent.
2. Other Planting Areas: 100 percent.

Components and installation: Couple of producing piping systems with the following minimum working pressure rotings except where indicated otherwise.
 Pressure Piping: 190 psig.
 Circuit and Drain Piping: 100 psig.

1.3 SUBMITTALS

A. Product data including pressure rating, rated capacity, settings, and electrical data of selected models for the following:

Backflow preventers, including test equipment.

Valves, including general_duty, underground, manual, and automatic control, and quick_ooupler types, and valve boxes.

Sprinklers, including emitters, drip tubes, and devices.
 Controls, including controller wiring diagrams.

L Comply with requirements of utility supplying water for prevention of backflow and

sock-exprensive.

Installer Qualifications: Engage on experienced installer who has completed irrigation systems similar in makerial, design, and extent to that indicated for Project that have resulted in construction with a record of successful in_service performance.

C. Provide underground irrigation system as a complete unit produced by a single acceptable manufacturer, including heads, valves, controls, and accessories.

A. Perform site survey, research public utility records, and verify existing utility locations. Verify that irrigation system piping may be installed in compliance with original design and referenced standards.

1.6 SEQUENCING AND SCHEDULING

A Coordinate irrigation systems work with landscape work specified in Division 32 Section "Landscape Improvements."

2.1 MANUEACTURERS

Manufacturers: Subject to compliance with requirements, provide products by one of the following:

g: gled on the drawings.

2.2 PRESSURE PIPE: Comply with following:
A 3 and smaller, PVC plastic pipe, ASTM D2241, Class 200 PVC, SDR 21 solvent weld pipe.

2.3 PIPE FITTINOS: Comply with following:
A For PVC plastic pipe, ASTM D 2464 Schedule 80, accelet fittings with ASTM D 2564 solvest commit.

2.4 CRCUIT PIPE (DOWNSTREAM FROM CIRCUIT VALVES): Comply with the following:
A PVC plastic pipe, ASTM D 2241, Class 200 PVC, SDR21 selvent weld pipe.

A PiC platfile (Spie, ACM to 224 Case 200 PiC, SSS2) solvent wed pipe.

2. AVCISS Mendecter's standard, and an follower

A Provide cost travels booker, unless otherwise Adoption.

5. Menual Chronic States Class value

6. Menual Chronic States Class value

7. Foreign 2 care was pipe. The end provide the brokens and by your of the states.

A Advantic Circuit Vehice: Class values operated by low-power solenoids, normally concern, mornal forth cognitions.

E Authoritic Order: Water: Consistence of the complement.

E Authoritic Order: Water: Consistence to open for distinge when the pressure drops have 3 pile.

bels 3.5 BCC/DUF PRODUCTS). Mendechard's disorder, to all sortices, yet men as present disps.

2.7 SPROADS REGION Mendechard's disorder of an all sortices per productions.

2.7 SPROADS REGION Mendechard's allowed until earlyses to produce soften coverage over evide or of party of evidence presents, no finder presents.

2. Finds and form from the present of the pre

Peruiculum springs.

1. Pop—Up Rotary Spray: Gear drive, full circle and adjustable part circle type.

1. Pop—Up Rotary Impact: Impact drive, full circle and part circle as indicated.

1. Noove—Ground Rotary Impact: Impact drive, full circle and part circle as indicated.

2.8 VALVE BOX: Thermoplastic. Size as required for access; maximum of two valves per

box.

2.9 VALVE COVER AND FRAME: Thermoplestic anap-top lid with provision for locking.

2.10 AUTOMATIC CONTROL SYSTEM

A General: Furnish low voltage system manufactured expressly for control of automatic circuit valves of underground irrigation systems. Provide unit of capacity to suit number of circuits as indicated.

B. Exterior Central Enclosure: Manufacturer's standard weatherproof enclosure with locking cover, complying with NEC (National Electric Code).

C. Interior Control Enclosures: Manufacturer's standard with locking cover, complying with NFPA 70. Coordinate location with electrical plans.

D. Transformer: To convert building service voltage to control voltage of 24 volts.

E. Circuit Control: Each circuit variable from approximately 5 to 60 minutes. Include selfch for manual or automatic operation of each circuit.

F. Timing Device: Adjustable, 24_hour and 7 or 14_day period.

2.11 DRANNAGE BACKFILL: Cleaned gravel or crushed stone, graded from 3' maximum to b' minimum.

PART 3 - EXECUTION 3.1 EVANINATION

A investigate and determine available water supply water pressure and flow characteristics.

A Set stokes to identify proposed sprinkler locations. Obtain Owner's approval before

.3 INSTALLATION

A. General: Unless otherwise indicated, comply with requirements of Uniform Plumbing Code.

A Consect Unions otherwise Indicated, comply with requirements of Uniform Principles (See An Indicated or devilet).

1. An a relicious, leaded to write the control of the Consect Comprised a complete connection.

1. Whence Cheer. Provide Indicate was, union and other fittings an excelled to provide a comprised occurred to the Consect Comprised connection.

2. Cheer Ingr. 172-173. See Section 1. Cheer Indicate Indi

 For circuit piping, slope to drain valve at least 1/2" in 10" of run. At well penetrations, post the opening cround pie with non-whirink grout. At exterior face, leave a perimeter stat approximately 1/2 wide by 3/4 deep. Fill this stat with booker roll and on acceptable elaboramic seclant. Report below grade waterproofing disturbed by this work and make penetration vatertight.

A. Testing: Perform hydrostatic test of piping and valves before backfilling trenches. Piping may be tested in sections to expectite work.

rywy may be assed in sections to expedite work.

1. Cop and subject the piping system to a static water pressure of 50 psig (345 shift) above the operating pressure without exceeding pressure string of 145 shift pressure contribute directal both must be registered.

2. Report leaks and careful with rew motivation and refeet system or portion thereof until artifactory results are obtained.

3.5 CLEARNO AND ADJUSTING
A. Flush dirt and debris from piping before installing apriniders and other devices.
8. Adjust automatic control values to provide flow rote of rated operating pressure required for each sprinker force.

required for each sprinker around.

Corefully adjust laws sprinkers so they will be flush with, or not more than 1/2 inch (13 mm) above, finish grade after completion of landscape work.

3.6 DEMONSTRATION

A Demonstrate to Owner that system meets coverage requirements and that automatic controls function property.

Demonstrate to Owner's maintenance personnel operation of equipment, sprinklers, specialties, and accessories. Review operating and maintenance information.

SECTION 329300 - PLANTS

1. Trees.
2. Shrubs.
3. Ground covers.
4. Plants.

6. Plotts.
5. Learns.
6. Topodo and soil omendments.
7. Initial mointenance of isothicage molerida.
7. Initial mointenance of isothicage molerida.
8. Radioda Sections: The following Sections contain requirements that reside to this Section 1. Exchica 22 Section Thronton projects.

1.3 SUBMITAIS A. General: Submit each item in this Article according to the Conditions of the Contract and Division 1 Secrification Sections.

Specification Sections.

Through certificate signed by moniforture certifying but their products comply with specificate representation.

I. Manufacturer's certifical contepts for standard products.

A modest for content of the con

1.4 QUALITY ASSURANCE

A Installer Qualifications: Engage on experienced installer who has completed landscaping work similar in material, design, and extent to that indicated for this Project and with a record of successful landscape Installer's Field Supervision: Require Installer to maintain on experienced full_time supervisor on the Project late during times that landscaping is in progress.

Project site during times that landscoping is in progress.

Provide quality, size, genus, species, and variety of trees and shrubs indicated, complying with applicable requirements of AKSI 266.1 "American Standard for Nursery Stock."

Topacii Anatysis: Furnish a soil analysis made by a qualified independent soil_stetling agency stating percentages of organic matter, larganic matter (stit, clay, and sond), deleterious material, phi, and mineral and plant __sulfrent content of topacii.

and plant __euriment content of topacu.

Report substitution to content of topacu.

Report substitution to content for growth of applicable planting material. State recommended quantities of nitrogen, phosphorus, and potash nutrients and any limestone, aluminum sulfate, or other soil amendments to be added to produce a satisfactory together.

to see success di produce a destinicatory topolo.

Messagnement Messagn besser del Annia according to ARCI 2001 with bronches and francia or cores in their coronal position. Do not proces to obtain required stees. Take coffee messagnement & hockes (150 mm) above grounds for trees us to 4 facility (100,mms) object stees, and 120 steels, 200 mm) above grounds for trees us to 4 facility (100,mms) object size, and 120 steels, 200 mm) above grounds for trees us to 4 facility (100,mms) object size, and 120 steels, 200 mm) above process (150,ms).

E. Preinstallation Conference: General Contractor to conduct conference at project sits for plenting coordination to verify compliance with requirements of project prizes and local jurisdiction responsible for approval of the planting condition.

1.5 DELIVERY, STORAGE, AND HANDLING A. Pockaged Materials: Deliver packaged materials in containers showing weight, analysis, and name of manufacturer. Protect materials from deterioration during delivery and while stored at site. B. Seed: Deliver seed in original sealed, labeled, and undo

Lives: District seed in original seeds, listeria, and unknowed containers.

These and Struke in District relative gain sees and shales. Do not prace before delivery, except an approach by Camer, Protect book, benches, and not system from an sould, giving, seeding, whipping, and other containers of the containers of t

landle balled and burlapped stock by the root ball.

E. Detiver trees, shrubs, ground covers, and plants after preparations for planting have been completed and lastall immediately. If planting is delayed more than 6 hours after delivery, set planting materials in shade, protect from weather and mechanical damage, and keep roots motils.

In Heal in breact, root stock. Sook roots in water for 2 hours if dried out.

2. Set balled stock on ground and cover ball with soil, pest moss, southest, or other acceptable material.

3. De not remove container_peers stock from containers before time of planting. Woter root systems of trees and shrubs stored on sits with a fine_mist apray. Water as often as necessary to maintain root systems in a moist condition.

1.6 PROJECT CONDITIONS A Utilities: Determine location of above grade and underground utilities and perform work in a manner which will evoid damage. Hend excevote, as required. Mointain grade stakes until removal is mutually agreed upon by parties concerned.

 Decaration: When consistions detrimental to plant growth are encountered, such as rubble fill, adverse drainage conditions, or obstructions, notify Gener before planting. 1.7 COORDINATION AND SCHEDULING

A Coordinate installation of planting materials during normal planting seasons for each type of plant material required.

A General Worranty: The special worranty specified in this Article shall not deprive the Owner of other rights the Owner may have under other provisions of the Contract Documents and shall be in addition to, and run concurrent with, other worranties made by the CC under requirements of the Contract Documents.

occurrent with, other secretals make by the CC mours assessment and stops at distillable, but off on Special Remover, Bernard the Relating Report of the Conference of the Con

C. Remove and replace dead planting materials immediately unless required to plant in the succeeding planting sesson.

D. Replace planting materials that are more than 25 percent dead or in an unhealthy condition at end of warranty period.

E. A limit of one replacement of each plant material will be required, except for losses or replacements due to foliure to comply with requirements.

1.9 TREE AND SHRUB MAINTENANCE

A Montrolin trees and shrubs by proving, cultivating, extering, residing, fertifizing, restoring planting sources. Spitzering and reporting states and pay augusted, and resetting to proper produce or vertical position, on resolved to establish beating, which portings—Serving or requiring the proper produce for the feet of insects and disease. Restore or replace damaged tree exceptings. Maintain trees and shrubs for the following periods:

A. Begin maintenance of lawns immediately after each area is planted and continue until acceptable lawn is established, but for not less than the following periods:

established, but for not less than the following periods:

1. Sodded Lares: 30 days after date of Substantial Completion.

1. Sodded Lares: 30 days after date of Substantial Completion.

Moletinal and establish lares by substantial Completion.

Moletinal and establish lares by substantial periods of establish lares by substantial completion. C. Watering: Provide and maintain temporary piping, hoses, and laws_satering equipment to convey water from sources and to keep lawns uniformly moist to a depth of 4 inches (100 mm).

. Water lawn at the minimum rate of 1 inch (25 mm) per week. In more sain at the minimum rate of 1 both (25 mm) per week.
Determine soon on there is exocuple top greate to cut with mover set of sectioned helpfu for principal species planted. Repeat moving on required to maintain specified helpfu without outling more bon 40 percent of greates helpfu. Remove no more than 40 percent of greates and growth in hillion or subsequent meeting. Do not delay moving until greate blooks bend over and become motted. Do not move when great is set.

Postertization: Apply fertilizer to Isam offer first moving and when gross is dry.

1. Use fertilizer that will provide actual nitrogen of at least 1 ib per 1000 sq. ft. (0.5 kg per 100 sq. m) of Isam area.

PART 2 _ PRODUCTS

2.1 TREE AND SHRUB MATERIAL

IDAHO TRANSPORTATION DEPARTMENT

A. Provide trees, shrubs and other plants of size, genus, species, and variety which are appropriate for the geographic area and local conditions of the site, and complying with recommendations and requirements of ANSI 280.1 American Standard for Nursery Stock.

 Provide deciduous trees (sized per plans) with branching, configuration recommended by ANSI Z80.1 for type and species required. Provide single stem deciduous trees, balled and burlageed (8489). C. Provide deciduous ehrubs (sized per plans) with not less than the minimum number of cones required by AVSI 280.1 for type and height of shrub required. Provide deciduous ehrubs, beliefel and hubmania (1849).

ensurum, cases one cumapper (888). Provide confirmous energement breas (sized per plans) and confirmous energement breas (sized per plans). Creaping or prostrate type confirms shall have a minimum spread of 18. Provide confirm shall response to 18. Provide confirm shall response to 18. Provide confirm shall response to the primary dimension shows. Provide based and buttingper (880) evergreems.

2.2 ORASS MATERIALS
A Soci Certified turfgrose and complying with ASPA specifications for matchine-out intrinsics, st. strength, moliture content, and mowed height, and free of weeks and the following burfgross species, strongly rooted, and copable of vigorous growth and development twen plotted.

2.4 MISCELLANEOUS LANDSCAPE MATERIALS

4 MISCELLARELOS LONIOS-VET. MINITARIO. A Artil-Desicont: Emulsion type, film-forming agent designed to permit transpiration, but retord excessive loss of moleture from plants. Deliver in manufacturer's fully identified containers and mix in occordance with manufacturer's instructions.

B. Filtration/Separation Fabric: Water permeable filtration fabric of fiberglass or polyprosylene fabric.

C. Wrapping: Tree-wrap tope not less than 4 inches wide, designed to prevent borer damage and winter freezing. Distates and Oys: Provide states and department or sound new horizontal restaurance, treatment and the state of 2 strends between the strends between

2.5 TOPSOIL

A. Topsoil: ASTM D 5268, pH range of 5.5 to 7, 4 percent organic material minimum, free of stones 1 inch (25 mm) or larger in any dimension, and other extraneous materials harmful to plant growth.

a. Sod Grass: 6 Inches. b. Planter Beds: 12 inches.

c. Ourb Islands: 18 Inches.

2.6 SOIL AMENDMENTS

A. Lime: ASTM C 602, Class T, agricultural limestone containing a minimum 80 percent calcium carbonate equivalent, with a minimum 99 percent passing a No. 8 (2.36 mm) sieve and a minimum 75 percent passing a No. 80 (255 micrometer) sieve.

B. Pest Humus: Finely divided pest, so completely decomposed and free of fibers that its biological identity is lost. Provide in granular form, free of hard lumps and with pH rames suitable for intended use. C. Mulch: A five (5) pound sample of mulch shall be submitted to Architect prior to delivery to site. Mulch shall be free from deleterious materials and suitable for top dressing of trees, shrubs, or plants.

D. Commercial Fertilizer: Complete fertilizer of neutral character, with some elements derived from organic sources and containing following percentages of available plant

 For trees and shrubs, provide fertilizer with not less than 5 percent total nitrogen, 10 percent available phosphoric acid and 5 percent soluble potash. 2. For learns, provide fartilizer with percentage of nitrogen required to provide not less than 1 pound actual nitrogen per 1,000 sq. Ft. of Isom area and not less than 4 percent phesphoric acid and 2 percent plotassium. Provide nitrogen in a form that will be available to Isom during initial period of growth; at least 50 percent of nitrogen to be excepted from



LANDSCAPE SPECIFICATIONS

Design Package | L40

20304