

REFERENCE NOTES SCHEDULE

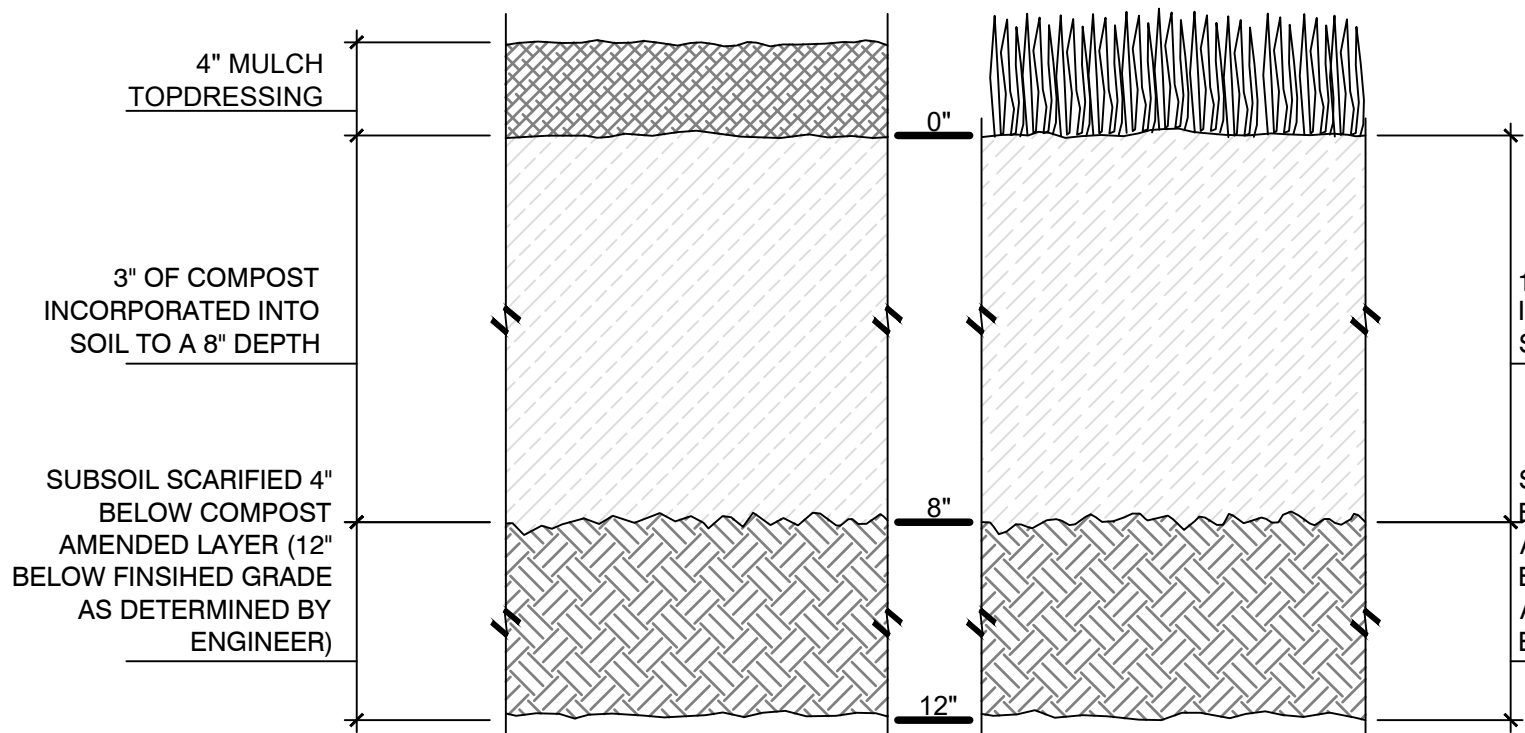
SYMBOL	DESCRIPTION	QTY	DETAIL
1	METAL EDGING	376 LF	/
2	CONCRETE MOW STRIP	182 LF	/
SYMBOL	DESCRIPTION	QTY	DETAIL
	LAWN AREA	8,210 SF	/
	NEW SCORED CONCRETE	10,752 SF	/
	PLANTING AREA-SOIL PREPARATION PER SPECIFICATIONS, TOPDRESS ALL LANDSCAPE BEDS WITH 4" OF MEDIUM GRIND BARK MULCH	4,643 SF	/
SYMBOL	DESCRIPTION	QTY	DETAIL
	GRAVEL MAINTENANCE STRIP	18.88 CY	/

Timeline for Tree Protection Fence Installation

1. Contact Project Forester to identify location for Tree Protection fence on site.
2. Contractor to install Tree Fence.
3. Project Forester inspects location and installation of Tree Fence and sends City of Olympia Forester inspection notice of Approval.
4. City Forester notifies Inspector the Pre-construction conference may be scheduled.
5. Contact Project Forester to attend the pre-construction conference to discuss tree protection issues.
6. Removal of trees and grading may begin within the clearing limits in the construction area
7. Maintain all tree protection fences throughout construction.
8. If any unplanned construction activity will affect a save tree, contact Project Forester prior to the impact. Project Forester assesses the proposed impact and recommends cultural care, mitigation, or removal. Project Forester sends email to City of Olympia Forester for final approval.

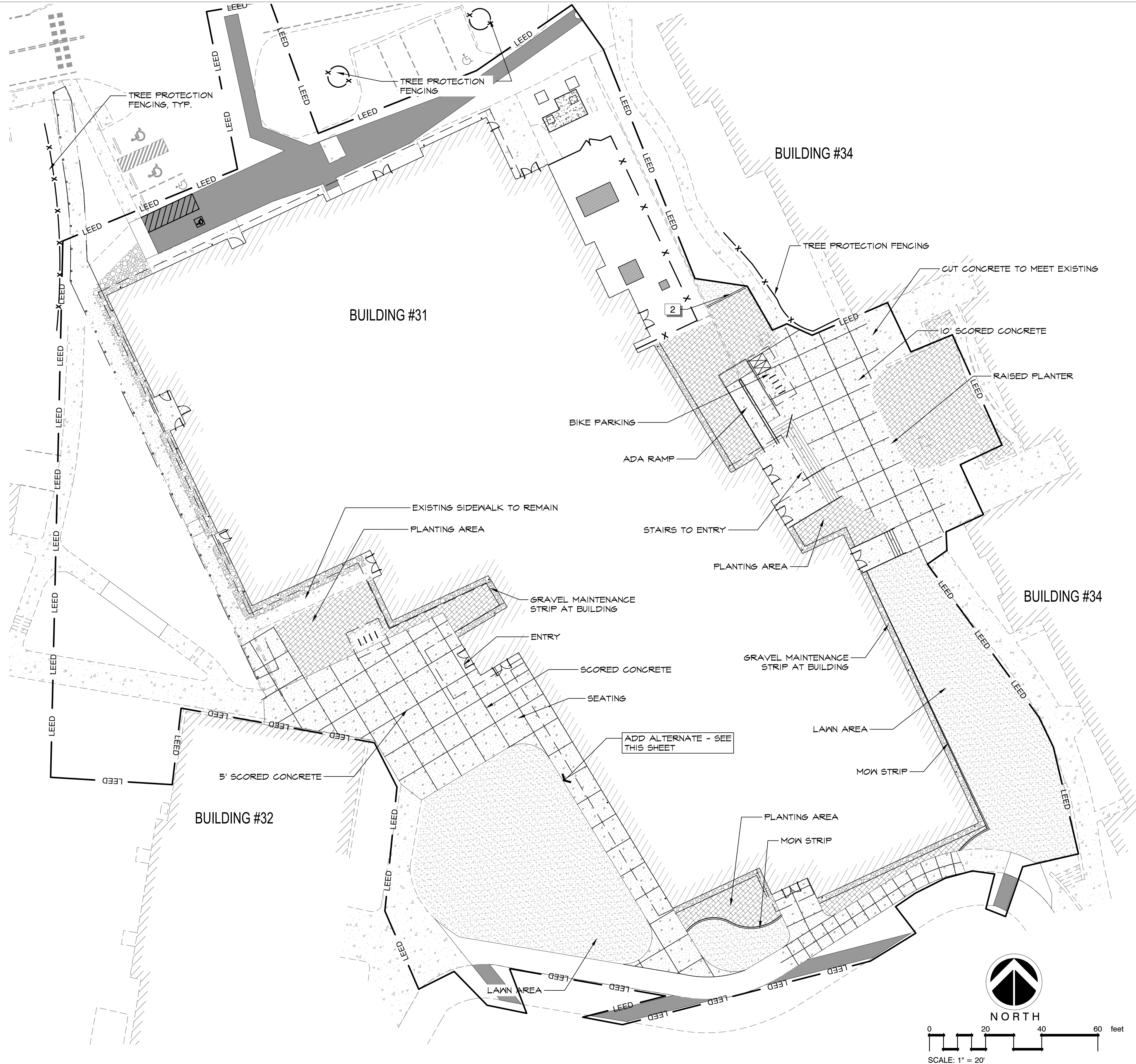
NOTES:

1. ALL SOIL AREAS DISTURBED BY OR COMPACTED BY CONSTRUCTION AND NOT COVERED BY BUILDINGS OR PAVEMENT SHALL BE AMENDED WITH COMPOST AS DESCRIBED BELOW.
2. SUBSOIL SHALL BE SCARIFIED (LOOSENE) 4" BELOW AMENDED LAYER, TO PRODUCE 12 INCH DEPTH OF UN-COMPACTED SOIL, EXCEPT WHERE SCARIFICATION WOULD DAMAGE TREE ROOTS OR AS DETERMINED BY THE ENGINEER.
3. COMPOST MUST BE TILLED IN TO 8 INCH DEPTH INTO EXISTING SOIL OR PLACE 8 INCHES OF COMPOST-AMENDED SOIL, PER SPECIFICATIONS.
4. TURF AREAS MUST RECEIVE 1.75 INCHES OF COMPOST TILLED IN TO 8-INCH DEPTH OR MAY SUBSTITUTE 8 INCHES OF IMPORTED SOIL CONTAINING 20-25% COMPOST BY VOLUME. THEN HYDROSEED AREA OR SOD PER LANDSCAPE DRAWINGS.
5. PLANTING BEDS MUST RECEIVE 3 INCHES OF COMPOST TILLED IN TO 8 INCH DEPTH, OR SUBSTITUTE 8 INCHES OF IMPORTED SOIL CONTAINING 20-25% COMPOST BY VOLUME. MULCH AFTER PLANTING WITH 2-3 INCHES OF TOPDRESS MULCH PER SPECIFICATIONS.
6. SETBACKS: TO PREVENT UNEVEN SETTLING, DO NOT COMPOST AMEND SOILS WITHIN 3 FEET OF UTILITY INFRASTRUCTURES (POLES, VAULTS, METERS, ETC...) WITHIN ONE FOOT OF PAVEMENT EDGE, CURBS AND SIDEWALKS SOIL SHOULD BE COMPACTED TO APPROXIMATELY 90% PROTOR TO ENSURE A FIRM SURFACE.



1 SOIL PREPARATION FOR LAWN AND PLANTING AREAS  
3" = 1'-0"

P-SC-SPS-34



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PLANT SCHEDULE

TREES	QTY	BOTANICAL NAME	CAL.	DESC.		REMARKS
	4	ACER PALMATUM JAPANESE MAPLE	2" CAL.	8'-10' HT.		DROUGHT TOLERANT
	3	TSUGA MERTENSIANA MOUNTAIN HEMLOCK	B&B/CONT.	4'-6' HT.		NATIVE
	6	ZELKOVA SERRATA 'GREEN VASE' SAWLEAF ZELKOVA	2" CAL.	12'-16' HT.		DROUGHT TOLERANT
SHRUBS	QTY	BOTANICAL NAME	SIZE	SPACING	SPACING	REMARKS
	13	AUCUBA JAPONICA 'GOLD DUST' 'GOLD DUST' AUCUBA	5 GAL	4' O.C.	48" o.c.	DROUGHT TOLERANT
	5	BUXUS SEMPERVIRENS 'FASTIGIATA' UPRIGHT BOXWOOD	5 GAL	3' O.C.	36" o.c.	DROUGHT TOLERANT
	27	GAULTHERIA SHALLON SALAL	1 GAL		30" o.c.	NATIVE
	24	LEUCOTHOE AXILLARIS COAST LEUCOTHOE	5 GAL	4' O.C.	48" o.c.	DROUGHT TOLERANT
	24	MAHONIA AQUIFOLIUM 'ORANGE FLAME' 'ORANGE FLAME' OREGON GRAPE	5 GAL	4' O.C.	48" o.c.	DROUGHT TOLERANT
	15	MISCANTHUS SINENSIS 'GHANA' 'GHANA' MISCANTHUS	2 GAL	4' O.C.	48" o.c.	DROUGHT TOLERANT
	3	MYRICA CALIFORNICA PACIFIC WAX MYRTLE	5 GAL	6' O.C.	72" o.c.	
	8	NANDINA DOMESTICA 'GULF STREAM' 'GULF STREAM' NANDINA	5 GAL	3' O.C.	36" o.c.	DROUGHT TOLERANT
	37	PENNISETUM ALOPECUROIDES 'HADELN' 'HADELN' FOUNTAIN GRASS	2 GAL	3' O.C.	36" o.c.	
	15	PIERIS JAPONICA 'PRELUDE' 'PRELUDE' PIERIS	2 GAL	3' O.C.	36" o.c.	DROUGHT TOLERANT
	9	PLEIOBLASTUS PYGMAEA DWF WHITESTRIP BAMBOO	2 GAL	3' O.C.	36" o.c.	
	60	RHUS AROMATICA 'GRO-LOW' 'GRO-LOW' FRAGRANT SUMAC	5 GAL	3' O.C.	36" o.c.	DROUGHT TOLERANT
	64	SYMPHORICARPOS MOLLIS CREEPING SNOWBERRY	1 GAL	3' O.C.	36" o.c.	NATIVE
GROUND COVERS	QTY	BOTANICAL NAME	SIZE	SPACING	SPACING	REMARKS
	259	BERGENIA CORDIFOLIA 'RED BEAUTY' 'RED BEAUTY' BEGENIA	1 GAL	@ 2.5' O.C.	24" o.c.	DROUGHT TOLERANT
	29	MOLINIA CAERULEA 'VARIEGATA' VARIEGATED MOOR GRASS	1 GAL	36" O.C.	36" o.c.	
	28	RUBUS CALYCINOIDES 'EMERALD CARPET' 'EMERALD CARPET' RUBUS	1 GAL	24" O.C.	24" o.c.	DROUGHT TOLERANT

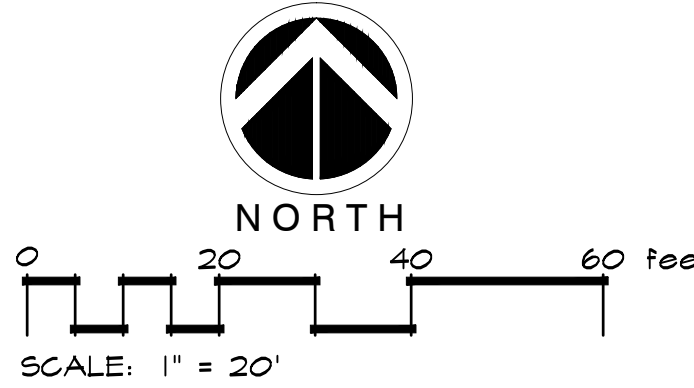
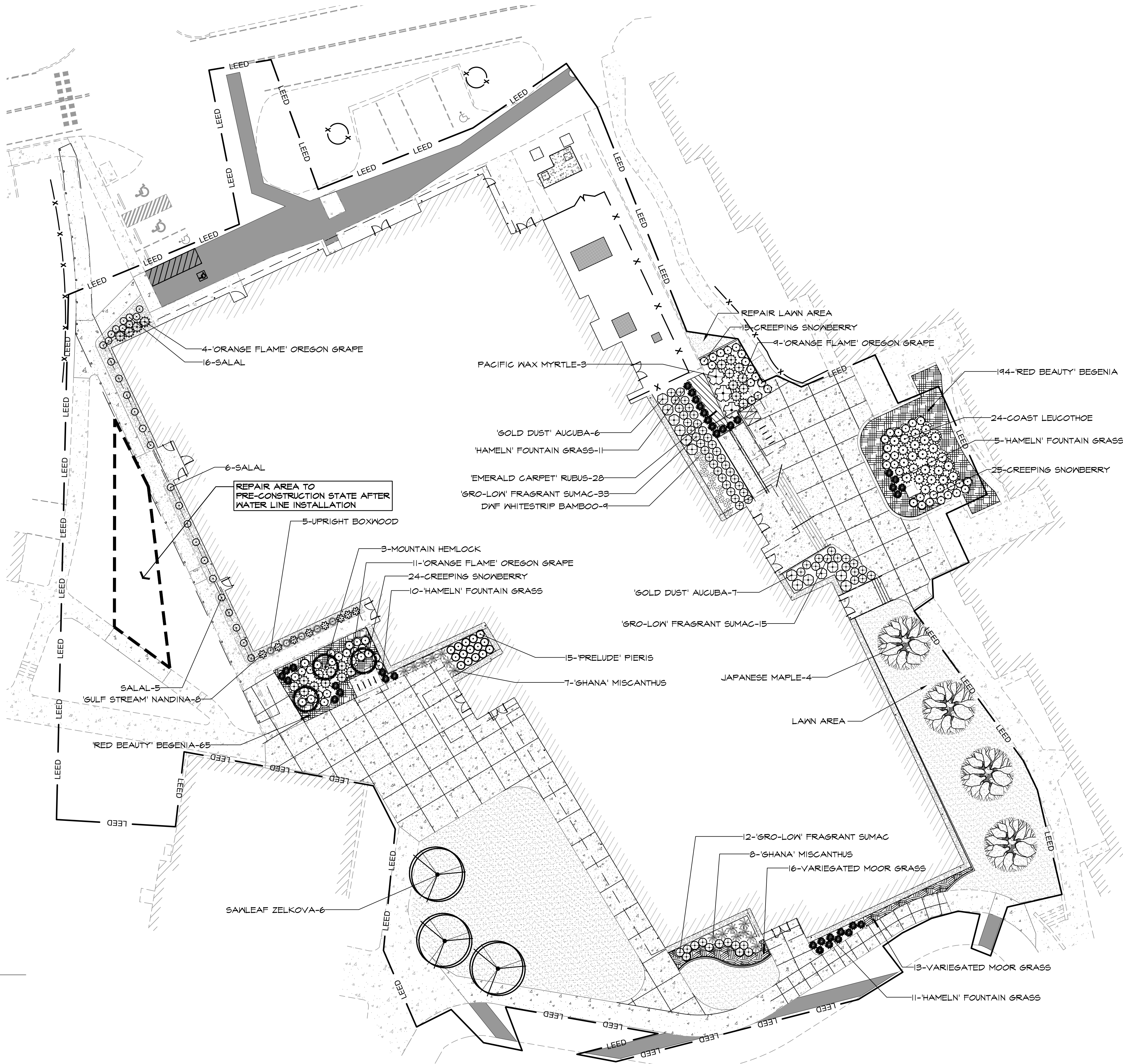
NOTE: PLANTS CONSIDERED DROUGHT TOLERANT PER GREAT PLANT PICKS.

SHEET NOTES

- REFER TO DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- ALL WORK SHALL BE PERFORMED TO THE SATISFACTION OF THE LANDSCAPE ARCHITECT/OWNER AND CITY OF OLYMPIA.
- PLANT LIST QUANTITIES ARE SHOWN FOR REFERENCE ONLY. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL QUANTITIES IN LIST WITH ACTUAL PLAN CALL-OUTS, AND INSTALLING PLANTINGS PER THE LANDSCAPE PLAN. GROUND COVER QUANTITIES SHALL BE ADJUSTED AS REQUIRED FOR FIELD CONDITIONS AT THE SPECIFIED SPACINGS.
- NO PLANT SUBSTITUTIONS WILL BE PERMITTED WITH OUT PRIOR APPROVAL OF LANDSCAPE ARCHITECT/ OWNER AND APPROVAL OF THE CITY OF OLYMPIA.
- THE GEOLOGIC MAP OF THE TUMWATER 7.5-MINUTE QUADRANGLE, THURSTON COUNTY, WASHINGTON (WALSH ET AL. 2003) TO UNDERSTAND THE REGIONAL GEOLOGY IN THE SITE VICINITY. THE GEOLOGIC MAP INDICATES THAT VASHON FINE-GRAINED SEDIMENTS WERE DEPOSITED IN THIS AREA BY GLACIAL LAKE RUSSELL. AND OTHER LAKES OF THE VASHON GLACIAL RECESSON. THE FINE-GRAINED DEPOSITS GENERALLY CONSIST OF LACUSTRINE SANDY SILT AND CLAY AND ARE MOST COMMONLY FOUND AT ELEVATIONS BELOW ABOUT ELEVATION 140 FEET (NAVD83) IN THE SOUTH PUGET LOWLAND. GLACIALLY CONSOLIDATED SOILS AT THE SITE ARE MAPPED AS VASHON GLACIAL OUTWASH DEPOSITS CONSISTING OF POORLY TO MODERATELY SORTED SAND AND GRAVEL WITH UNDERLYING LAYERS OF OVERCONSOLIDATED LACUSTRINE SILT AND CLAY.
- SEE SHEET L102 FOR COMPLETE PLANT LIST WITH SIZES, QUANTITIES & COST.
- ALL AREAS TO BE PLANTED ARE TO BE MULCHED WITH 4 INCHES ORGANIC MATERIAL.
- LANDSCAPE ARCHITECT SHALL INSPECT THE LANDSCAPING UPON INSTALLATION FOR PLAN COMPLIANCE AND SUBMIT A STATEMENT OF APPROVAL TO THE CITY PRIOR TO BUILDING OCCUPANCY.
- ALL LANDSCAPING AREAS SHALL BE PLANTED TO ACHIEVE 80% PLANT DENSITY WITHIN 3 YEARS OF PLANTING. ADDITIONAL PLANTINGS MAY BE NECESSARY UPON INSPECTION BY THE CITY.

INSTALLATION & MAINTENANCE SCHEDULE - APPROXIMATE

SEPT 2019 - DEC 2019	SOIL PREPARATION, IRRIGATION INSTALLATION, PLANTING, STAKING, WATERING. SUBSTANTIAL COMPLETION EXPECTED JANUARY 2020.
JAN 2020 - MAR 2020	60-DAY MAINTENANCE PERIOD. WEEKLY MAINTENANCE VISITS AND INSPECTION OF PLANT MATERIAL.
APR 2020	FINAL PUNCH LIST AND ACCEPTANCE OF PROJECT EXPECTED
APR-SEPT 2020	WEEKLY MAINTENANCE VISITS
SEPT - NOV 2020	LEAF AND TREE DEBRIS CLEAN-UP AS NEEDED
OCT 2020 - MARCH 2021	MONTHLY FERTILIZE AND PRUNING AS NEEDED
MARCH - SEPT 2021	WEEKLY MAINTENANCE VISITS
SEPT - NOV 2021	LEAF AND TREE DEBRIS CLEAN-UP AS NEEDED
OCT 2021 - MARCH 2022	MONTHLY FERTILIZE AND PRUNING AS NEEDED
MARCH - SEPT 2022	WEEKLY MAINTENANCE VISITS
SEPT - NOV 2022	LEAF AND TREE DEBRIS CLEAN-UP AS NEEDED
OCT 2022 - MARCH 2023	MONTHLY FERTILIZE AND PRUNING AS NEEDED

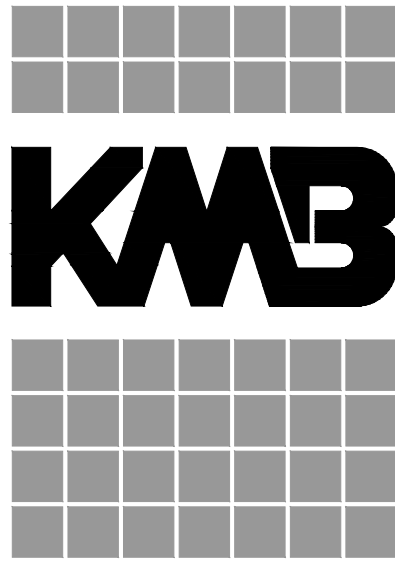


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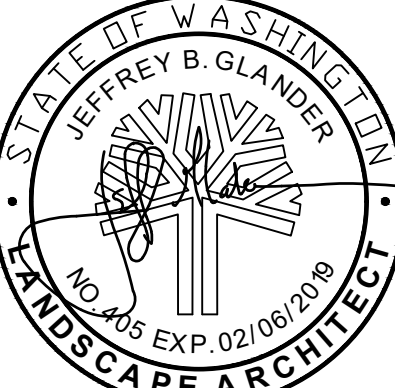
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KMB Project # E1626



HEALTH AND WELLNESS CENTER RENOVATION AND ADDITION  
SOUTH PUGET SOUND COMMUNITY COLLEGE  
2011 MOTTMAN ROAD SW, OLYMPIA, WA 98512  
PROJECT NO. 2018-11.1A

ORIGINAL SHEET SIZE = 30" x 42"  
HALF SIZE REDUCTIONS = 15x21"

REVISIONS:

DATE:  
07/12/2018  
DESIGN DEVELOPMENT

L-002

LANDSCAPE PLAN



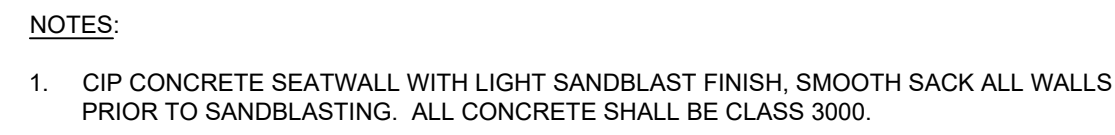


Diagram illustrating the components and dimensions for a planting pit:

- SHRUB PLANT SHALL BE CLEARLY VISIBLE AFTER PLANTING**
- 3"** (Height of mulch layer)
- MULCH - REMOVE FROM BASE OF PLANT**
- WATERING BASIN BERM**
- ROOTBALL DEPTH** (Indicated by a dashed line)
- 6" MIN.** (Minimum depth of the pit)
- PLANTING PIT SHALL BE A MIN. OF TWICE THE ROOTBALL DEPTH**
- 6" MIN.** (Minimum width of the pit)
- ROOTBALL DIAMETER** (Indicated by a dashed line)
- 6" MIN.** (Minimum width of the pit)
- 6" MIN.** (Minimum width of the pit)
- FERTILIZER TABLETS, 2"-6" DEPTH**
- COMPLETELY REMOVE BURLAP FROM ROOTBALL AFTER PLACING SHRUB IN PLANTING HOLE**
- BACKFILL SOIL MIX**
- NOTE: FOR PLANTS IN CONTAINERS COMPLETELY REMOVE PLANTS FROM POT AND WORK ROOTS FREE OF SOIL PRIOR TO PLANTING.**

[illegible]

Diagram illustrating the layout of a planting bed with various spacing and edge specifications:

- CONTINUOUS OUTER ROW OF PLANTS SPACED "X" ON CENTER AND SET BACK FROM THE PLANTING BED EDGE  $2/3$  "X"
- AREA FOR SPACING ADJUSTMENT
- EDGE OF PLANTING BED
- TRIANGULAR SPACING WITHIN PLANTING BED
- $2/3$  "X"

Diagram illustrating the installation of a street ell (Sch. 40 & 2-Marlex Street Ells or Assembled Swing w/ Sch. 40 Swivel Ells) for a sprinkler system. The diagram shows the sprinkler body, threaded riser (if needed), and lateral line fitting. The installation is shown at a 30°-45° angle to the finished grade. A 3" dimension is indicated for the riser section. The diagram also shows the finished grade, walk or curb, and a north arrow.

FINISH GRADE 1/2" BELOW TOP OF ALUMINUM EDGE BETWEEN GRAVEL AND BARK AREAS.

4" THICK ROCK MULCH

WEED BARRIER FABRIC, WRAP UP SIDES OF METAL EDGE.

1/2"

COMPACTED SUB-GRADE.

ALUMINUM EDGING WITH 12" ALUMINUM SPIKES, STAKE APPROX. EVERY 2', TYP.

EDGING SHALL BE PERMALOC® CLEAN LINE ALUMINUM LANDSCAPE EDGING (3/4" x 4"), FINISH SHALL BE (MF) MILL FINISH - NATURAL ALUMINUM AS AVAILABLE FROM PERMALOC, (800) 356-9660 OR APPROVED EQUAL.

Diagram illustrating the installation of a chain-link fence using anchor posts:

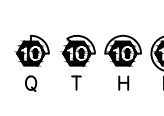

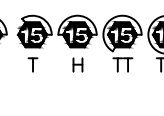


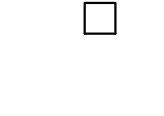
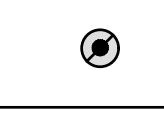
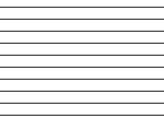
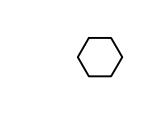

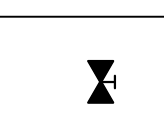


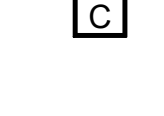

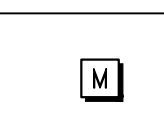
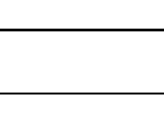
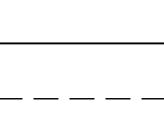
- Anchor posts should be minimum 6' tall "T-bar" fence posts.
- Attach fence to posts with appropriate fasteners at a minimum of 3 locations.
- 4' minimum chain link fence.
- Use 8" wire "U" to secure fence at bottom.
- Anchor posts must be installed to a depth of no less than 1/3 of the total height of post.
- Maximum distance between anchor posts is 8'.

1. THE TREE, SOIL AND VEGETATION PROTECTION FENCE SHOULD BE MAINTAINED THROUGHOUT THE CONSTRUCTION AND GRADING, AND NOT TO BE REMOVED UNTIL FINAL LANDSCAPING IS IN PROGRESS AND WITH APPROVAL BE PROJECT FORESTER.
2. NO VEHICLES OR EQUIPMENT SHOULD ENTER INTO THE CRITICAL ROOT ZONE (CRZ).
3. ALL BRUSH CLEANUP WITHIN THE CRZ SHOULD BE COMPLETED BY HAND TO PREVENT DISTURBANCE OF NATIVE GRASS COVER.
4. ALL CUTS AND FILLS, CUTS AND FILLS, TRENCHING, MODIFICATIONS TO DRAINAGE, OR CONCRETE RINSE WATER SHOULD IMPACT THE CRZ.
5. ALL VEHICLES OR OTHER DEVICES SHOULD BE ATTACHED TO PROTECTED TREES DURING CONSTRUCTION.
6. ALL WORK MUST OCCUR WITHIN THE CRZ, CONTACT PROJECT FORESTER PRIOR TO THE OPERATIONS TO DETERMINE THE PROPER PROCEDURE TO PROTECT THE TREE'S HEALTH.

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# IRRIGATION SCHEDULE

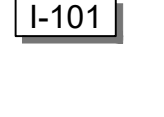
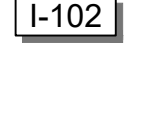

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	PSI	DETAIL
	HUNTER PRO-S-04-CV 10' RADIUS TURF SPRAY, 4.0" POP-UP, WITH DRAIN CHECK VALVE. CO-MOLDED WIPER SEAL WITH UV RESISTANT MATERIAL.	30	6/W/L2.02
	HUNTER PRO-S-04-CV 12' RADIUS TURF SPRAY, 4.0" POP-UP, WITH DRAIN CHECK VALVE. CO-MOLDED WIPER SEAL WITH UV RESISTANT MATERIAL.	30	6/W/L2.02
	HUNTER PRO-S-04-CV 15' RADIUS TURF SPRAY, 4.0" POP-UP, WITH DRAIN CHECK VALVE. CO-MOLDED WIPER SEAL WITH UV RESISTANT MATERIAL.	30	6/W/L2.02
	HUNTER PRO-S-04-CV 17' RADIUS TURF SPRAY, 4.0" POP-UP, WITH DRAIN CHECK VALVE. CO-MOLDED WIPER SEAL WITH UV RESISTANT MATERIAL.	30	6/W/L2.02
	HUNTER PRO-S-04-CV ADJ TURF SPRAY, 4.0" POP-UP, WITH DRAIN CHECK VALVE. CO-MOLDED WIPER SEAL WITH UV RESISTANT MATERIAL.	30	6/W/L2.02
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION		DETAIL
	HUNTER PCZ-101-25 DRIP CONTROL VALVE KIT. 1" PSV GLOBE VALVE WITH 1" HY100 FILTER SYSTEM. PRESSURE REGULATION: 25PSI. FLOW RANGE: 0.5 GPM TO 15 GPM. 150 MESH STAINLESS STEEL SCREEN.		6/L3.02
	TECHLINE START CONNECTION LATERAL TO DRIP ZONE TUBING WITH SWING JOINT ASSEMBLY.		7/L3.02
	AREA TO RECEIVE DRIPLINE NETAFIM TL-CV-06-10 TECHLINE PRESSURE COMPENSATING LANDSCAPE DRIPLINE WITH CHECK VALVE. 0.6 GPH EMITTERS AT 18" O.C. DRIPLINE LATERALS SPACED AT 18" APART, WITH EMITTERS OFFSET FOR TRIANGULAR PATTERN. ITMM.		
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION		DETAIL
	HUNTER ICV-6 1", 1/2", 2", AND 3" PLASTIC ELECTRIC REMOTE CONTROL VALVES, GLOBE CONFIGURATION, WITH NPT THREADED INLET/OUTLET, FOR COMMERCIAL/MUNICIPAL USE.		2/L3.02
	HUNTER HQ-33DRG QUICK COUPLER VALVE, YELLOW RUBBER COVER, RED BRASS AND STAINLESS STEEL, WITH 3/4" NPT INLET, 2-PIECE BODY.		5/W/L2.02
	MATCO-NORCA T54 BRASS SHUT OFF BALL VALVE, 1/2" TO 4". TWO PIECE BODY, BLOW-OUT PROOF STEM, CHROME PLATED SOLID BRASS BALL, THREADED, WITH PTFE SEATS. SAME SIZE AS MAINLINE PIPE.		3/L3.02
	DRAIN VALVE WILKINS #200 3/4" ANGLE VALVE FOR MANUAL DRAIN VALVE ASSEMBLY W/ KEY EXTENSION		8/L3.02
	FESCO 850 1" DOUBLE CHECK BACKFLOW PREVENTION, 1/2" TO 2"		1/L3.02
	HUNTER PC-4001 W/ (OI) PCM-300 & (OI) PCM-900 LIGHT COMMERCIAL & RESIDENTIAL CONTROLLER, 16-STATION EXPANDED MODULE CONTROLLER, 120 VAC, INDOOR MODEL		
	HUNTER WSS-SEN WIRELESS SOLAR, RAIN FREEZE SENSOR WITH OUTDOOR INTERFACE, CONNECTS TO HUNTER X-CORE AND ACC CONTROLLERS, INSTALL AS NOTED. INCLUDES GUTTER MOUNT BRACKET. MODULE NOT INCLUDED.		
	WATER METER 1" SYSTEM DESIGNED AT XX PSI, FIELD VERIFY EXACT PRESSURE ON SITE		
	IRRIGATION LATERAL LINE: PVC CLASS 200 SDR 21 12" BELOW GRADE, 24" BELOW PAVED AREAS		
	IRRIGATION MAINLINE: PVC SCHEDULE 40 18" BELOW GRADE, 24" BELOW PAVED AREAS		
	PIPE SLEEVE: PVC CLASS 200 SDR 21 BURY 24" BELOW GRADE		

#	Valve Callout
1	Valve Number
2	Valve Flow
3	Valve Size

## VALVE SCHEDULE

NUMBER	MODEL	SIZE	TYPE	GPM	PSI	PSI @ PQC
1	HUNTER PCZ-101-25	1"	AREA FOR DRIPLINE	5.35	40.40	46.28
2	HUNTER PCZ-101-25	1"	AREA FOR DRIPLINE	7.64	41.74	48.88
3	HUNTER ICV-6	1"	TURF SPRAY	22.50	34.14	47.25
4	HUNTER ICV-6	1"	TURF SPRAY	19.97	33.84	44.87
5	HUNTER ICV-6	1"	TURF SPRAY	18.54	34.30	44.84
6	HUNTER PCZ-101-25	1"	AREA FOR DRIPLINE	2.62	40.03	45.93
7	HUNTER ICV-6	1"	TURF SPRAY	16.09	33.74	45.94
8	HUNTER ICV-6	1"	TURF SPRAY	16.86	33.32	46.36
9	HUNTER ICV-6	1"	TURF SPRAY	19.74	33.91	50.11
10	HUNTER ICV-6	1"	TURF SPRAY	15.81	34.10	47.30
11	HUNTER ICV-6	1"	TURF SPRAY	21.12	33.80	52.43
12	HUNTER PCZ-101-25	1"	AREA FOR DRIPLINE	3.29	40.04	45.54
13	HUNTER PCZ-101-25	1"	AREA FOR DRIPLINE	7.00	41.35	48.87

## REFERENCE NOTES SCHEDULE

SYMBOL	IRRIGATION DESCRIPTION
	IRRIGATION PLAN IS DIAGRAMMATIC. INSTALL ALL PIPES, VALVES, HEADS AND OTHER IRRIGATION EQUIPMENT WITHIN PROJECT LIMITS AND IN LANDSCAPE BEDS WHEN POSSIBLE.
	IRRIGATION POINT OF CONNECTION AT NEW 1" METER. SYSTEM DESIGNED AT 65 PSI, FIELD VERIFY EXACT PRESSURE.
	INSTALL IRRIGATION CONTROLLER IN BUILDING AS DIRECTED. GENERAL CONTRACTOR SHALL PROVIDE POWER SOURCE FOR CONTROLLER. VERIFY LOCATION AND POWER SOURCE WITH OWNER'S REPRESENTATIVE.

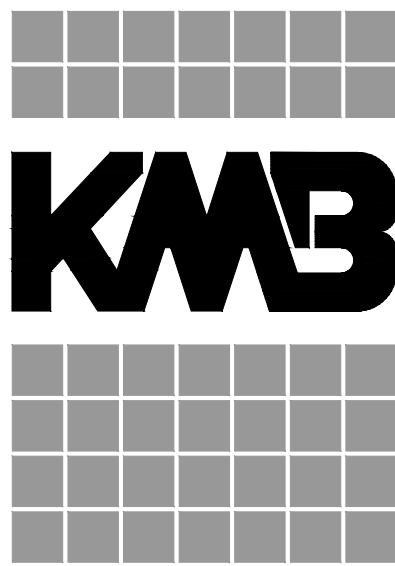
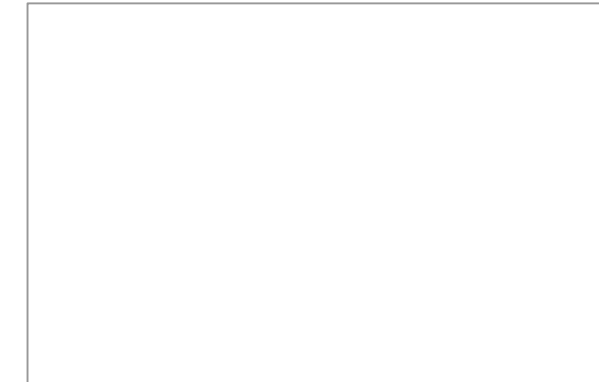
## IRRIGATION SHEET NOTES

- SEE DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- PLAN IS DIAGRAMMATIC. ALL PIPING, LATERALS, AND WIRE TO BE LOCATED IN BED OR LAWN AREAS WHERE APPROPRIATE.
- PIPE SIZES ARE TO REMAIN CONSTANT BETWEEN PIPE SIZE CALL-OUTS. PIPES ARE LABELED TO SMALLEST PIPE SIZE ONLY (¾").
- ALL IRRIGATION HEADS LOCATED IN LAWN AREAS SHALL BE 4" POP-UPS AND HEADS IN SHRUB AREAS SHALL BE 12" POP-UPS.
- ALL DRIP TUBING SHALL BE INSTALLED BELOW THE FINISH SOIL GRADE UNLESS NOTED OTHERWISE. INSTALL TUBING AT A CONSISTENT DEPTH OF 2" BELOW TOP OF TOPSOIL.
- ALL PIPES AND SLEEVES UNDER PAVED AREAS SHALL BE 24" DEEP. ALL MAINLINE SHALL BE 18" DEEP IN ALL UNPAVED AREAS, 24" IN PAVED AREAS. ALL LATERALS SHALL BE 12" DEEP IN ALL UNPAVED AREAS AND 24" DEEP IN PAVED AREAS.
- LOCATE ALL MAINLINES WITHIN THE PROJECT LIMITS. INSTALL #14-AWG DIRECT BURIAL LOW VOLTAGE WIRE ALONG MAINLINE; TAPE AND BUNDLE WIRE EVERY 20' FT. PROVIDE RED COLOR WIRE FOR SIGNAL AND WHITE COLOR WIRE FOR COMMON. PROVIDE A MINIMUM OF ONE SPARE WIRE FOR EVERY 10 VALVES FOR A MAXIMUM OF FIVE SPARE WIRES.
- ALL WORK SHALL BE PERFORMED TO THE SATISFACTION OF THE LANDSCAPE ARCHITECT/OWNER.

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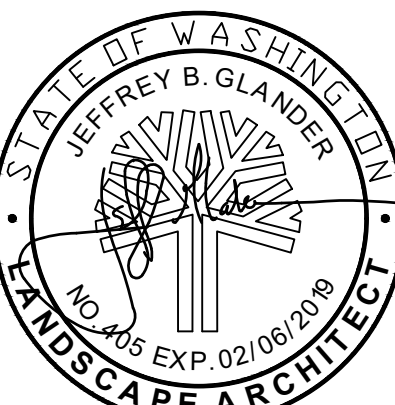
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KMB Project # E1626



**HEALTH AND WELLNESS CENTER RENOVATION AND ADDITION**  
**SOUTH PUGET SOUND COMMUNITY COLLEGE**  
2011 MOTTMAN ROAD SW, OLYMPIA, WA 98512  
PROJECT NO. 2018-11.1A

ORIGINAL SHEET SIZE = 30" x 42"  
HALF SIZE REDUCTIONS = 15x21"

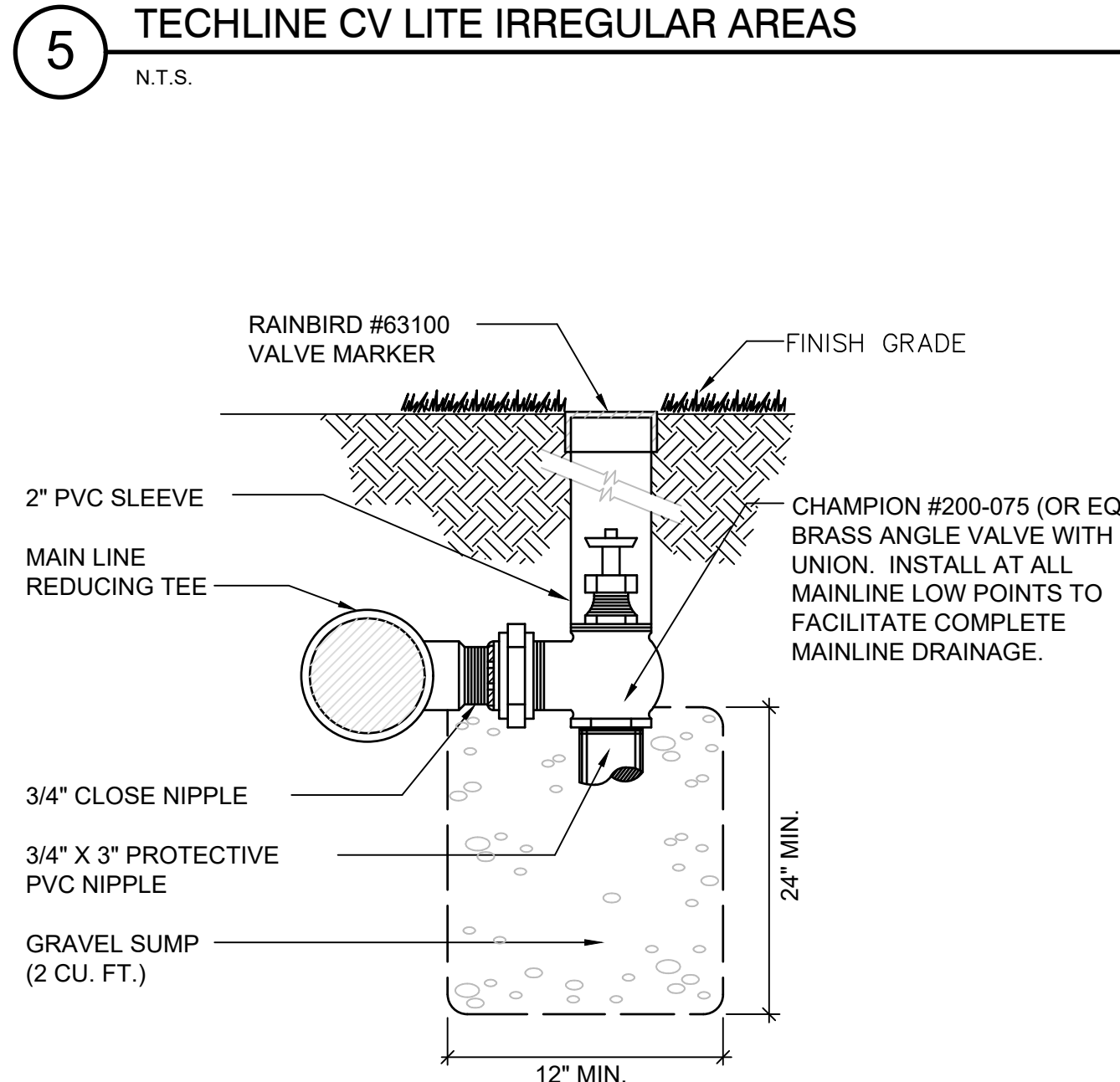
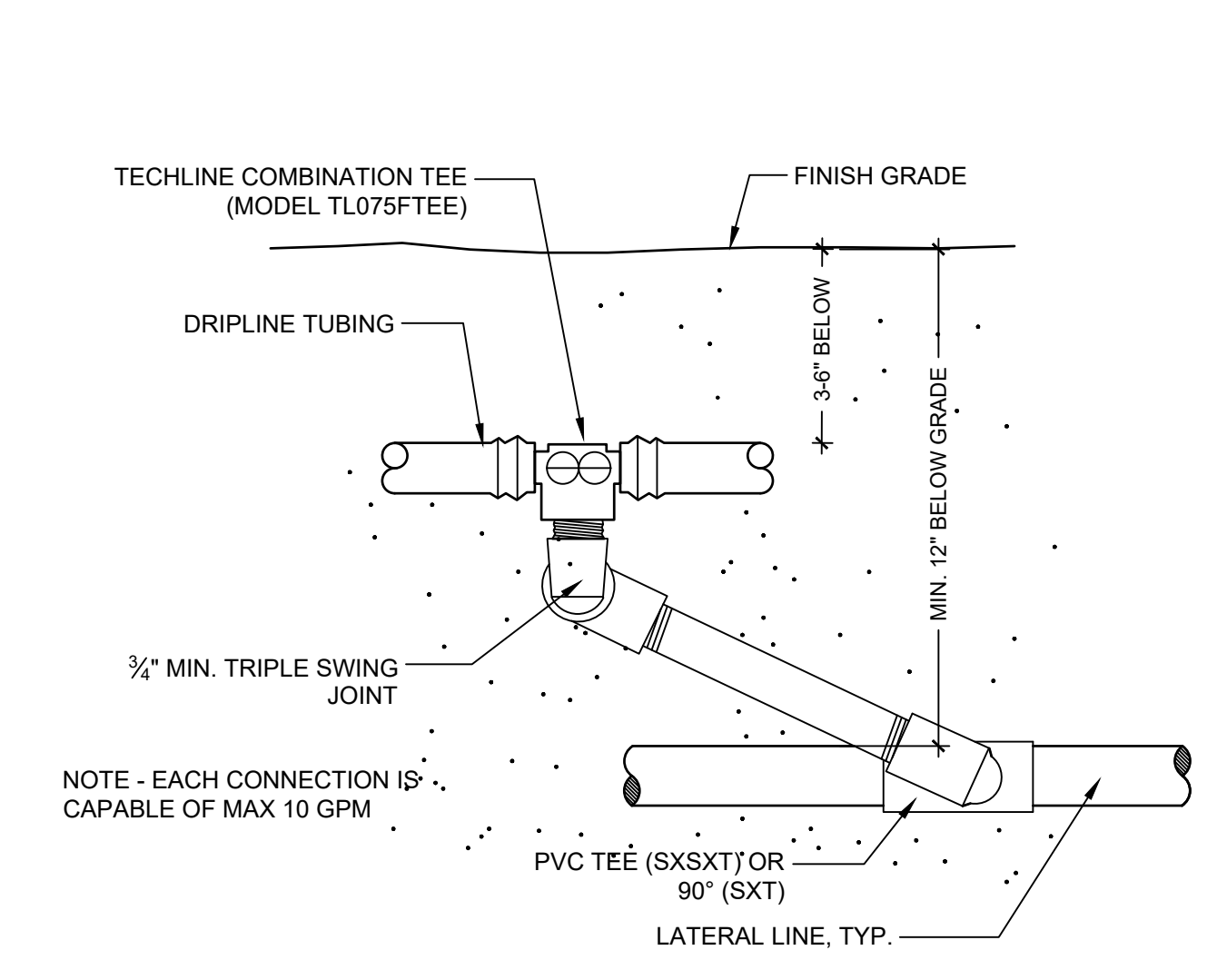
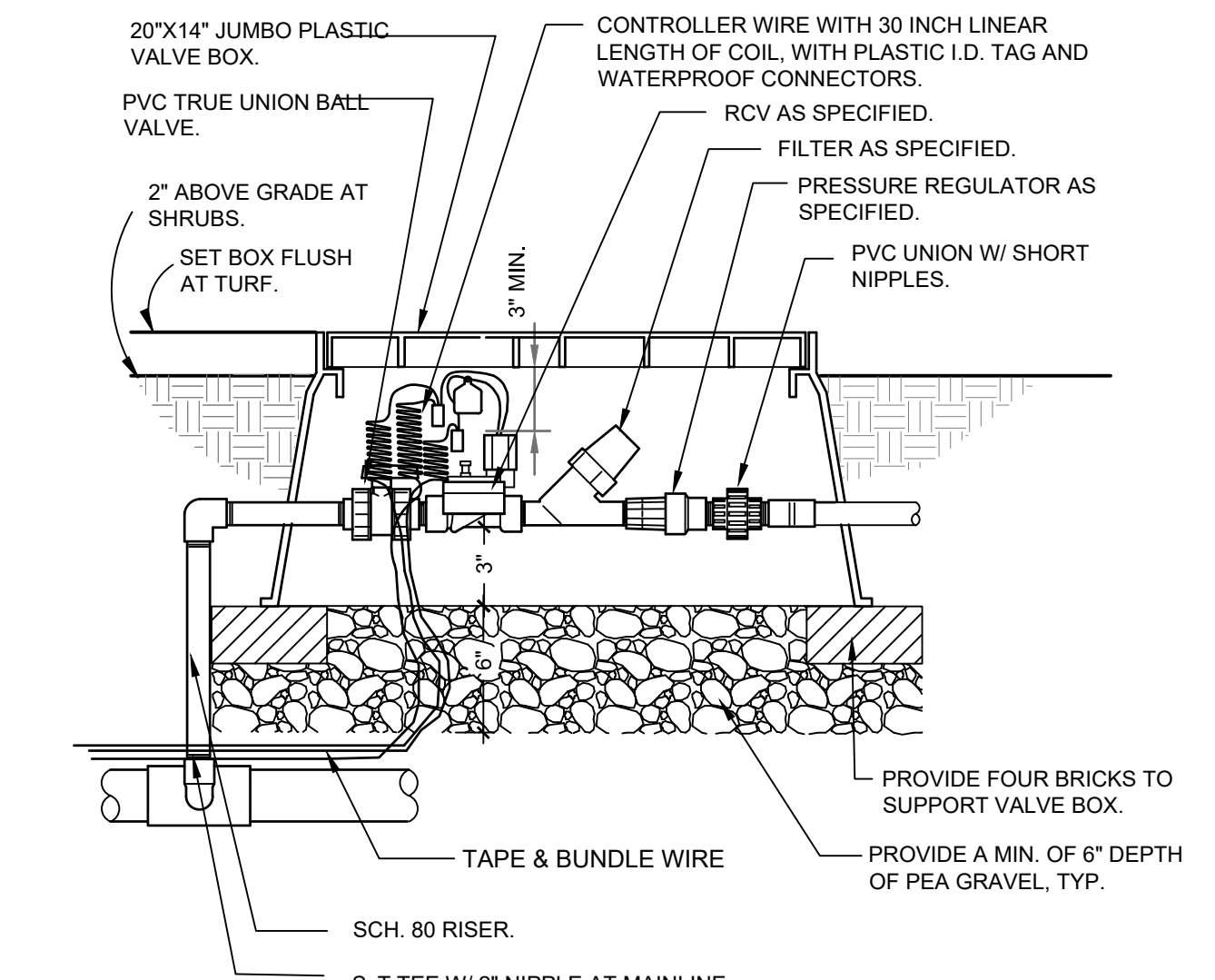
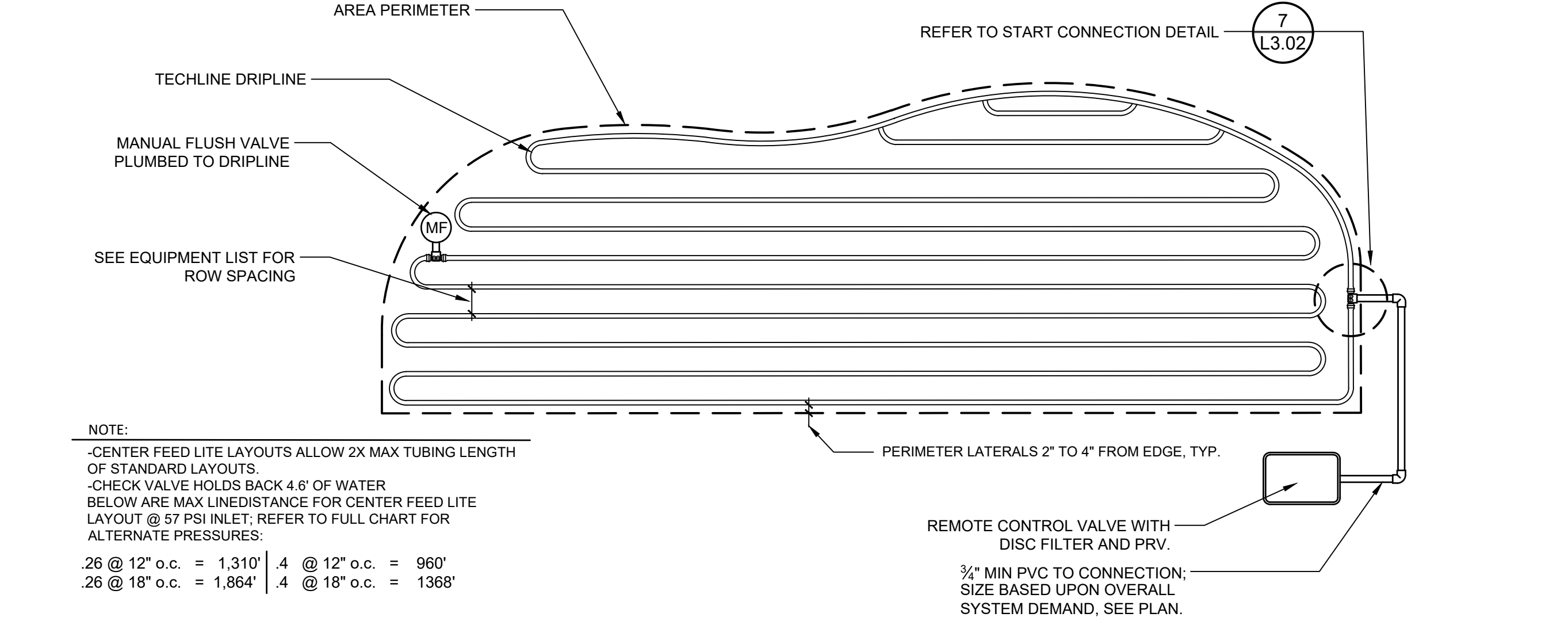
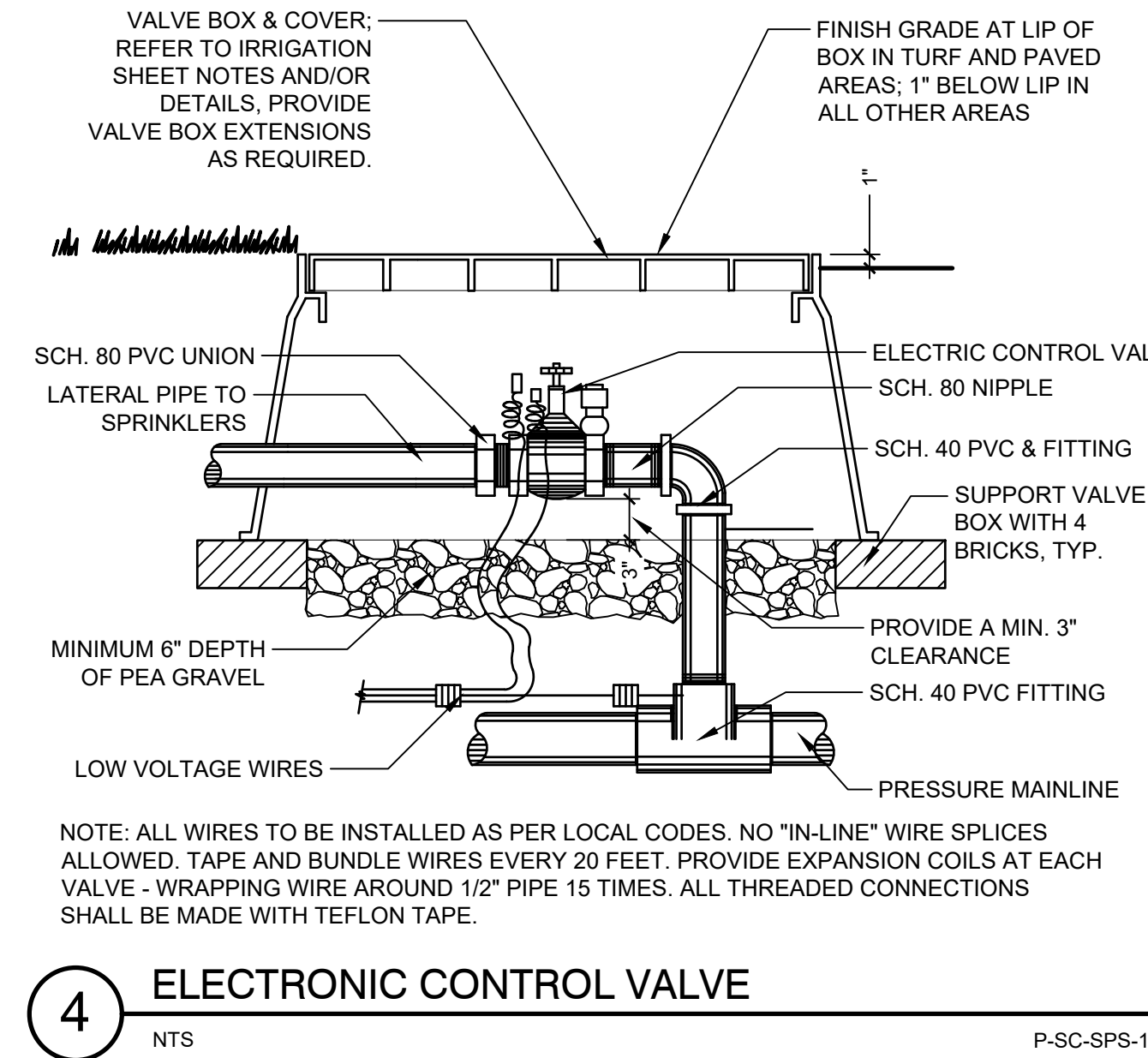
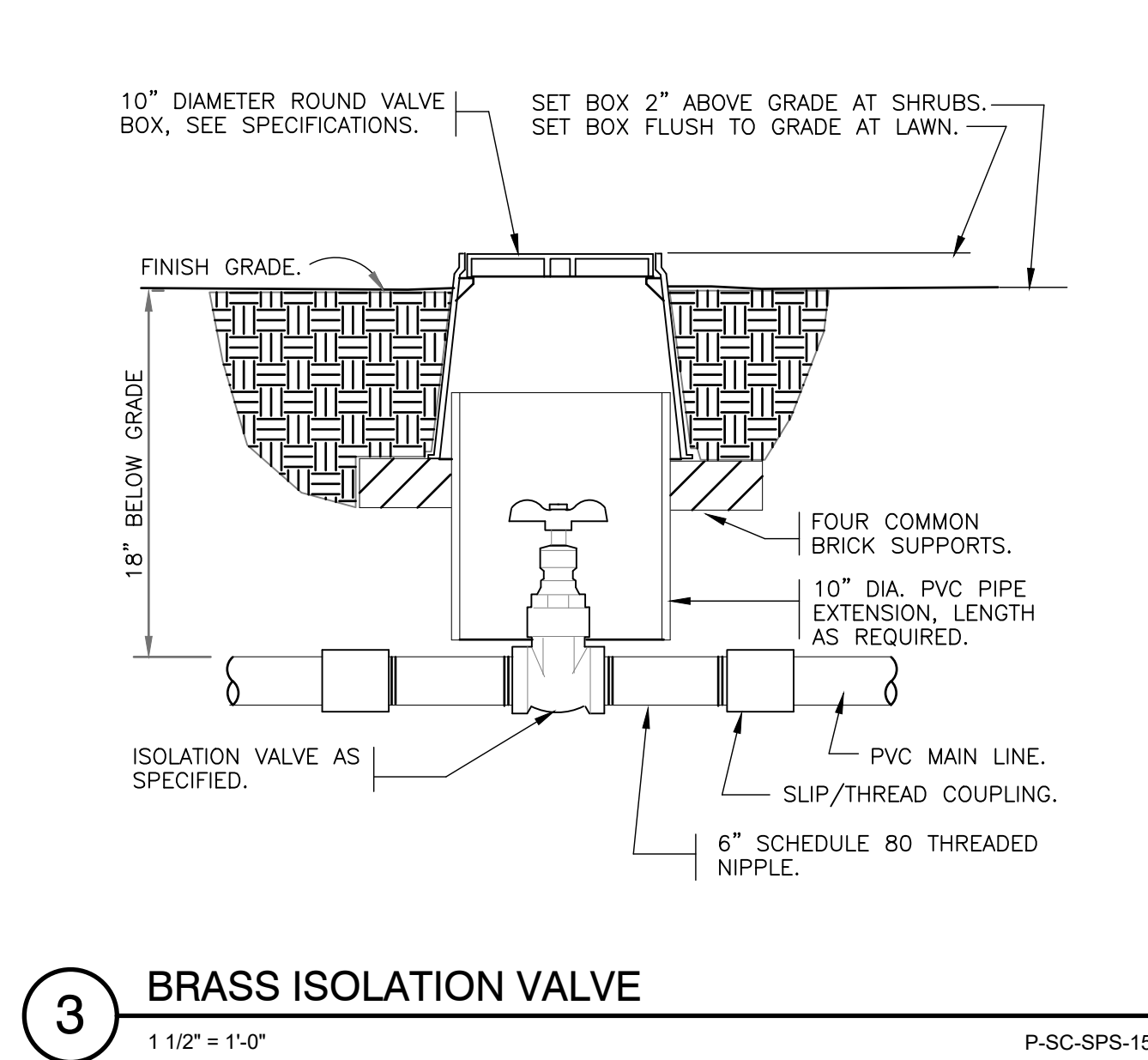
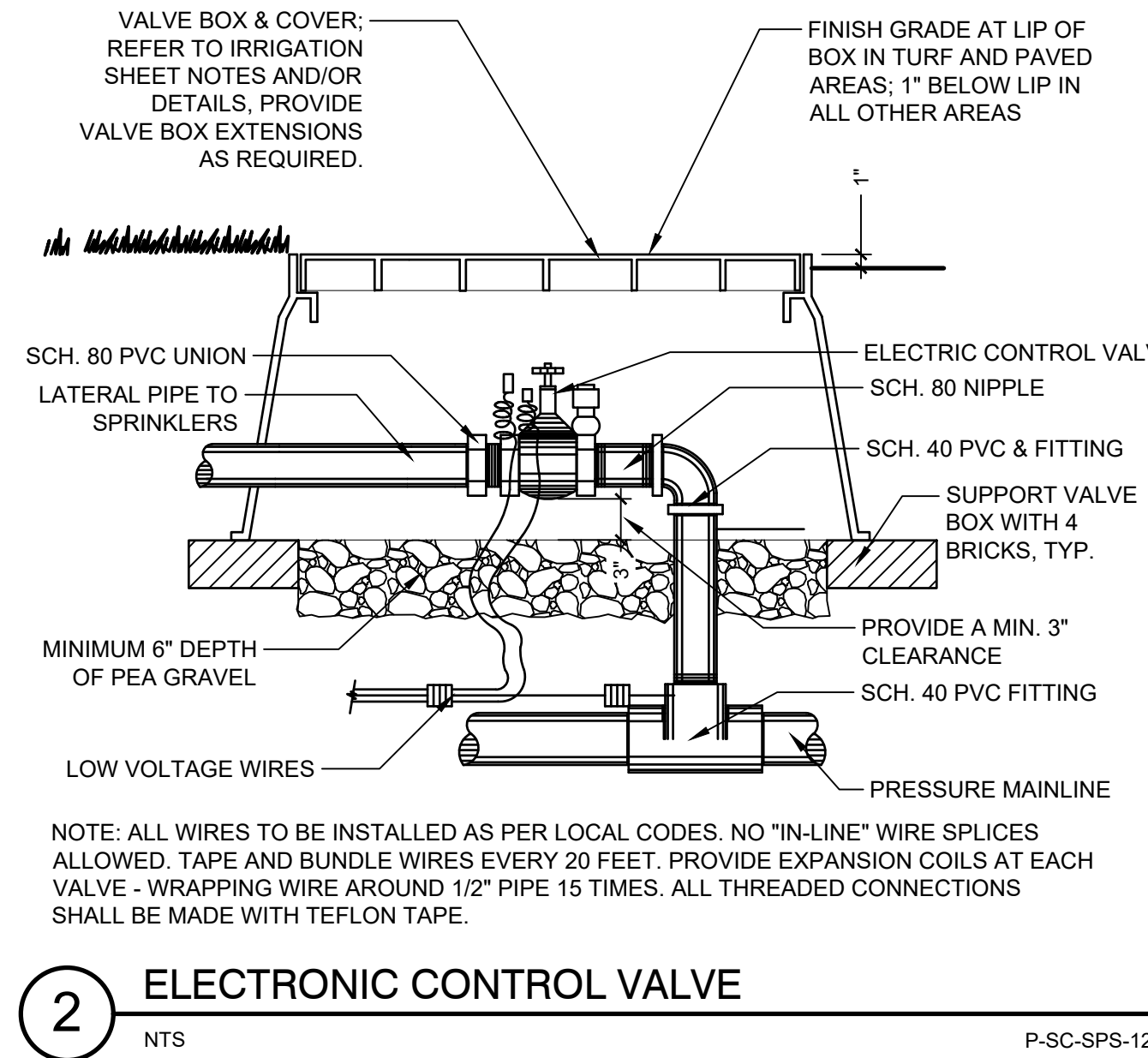
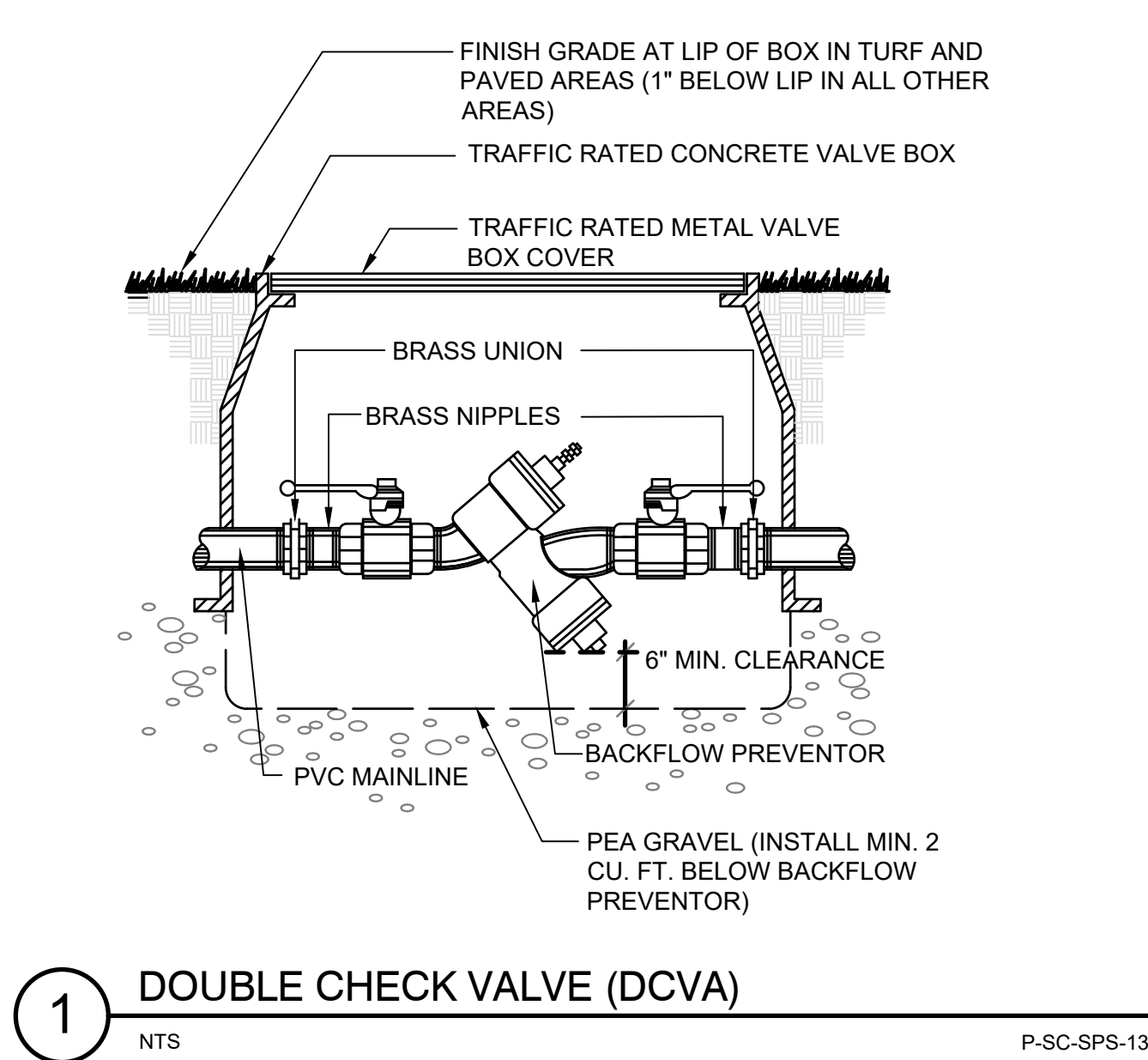
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DATE: 07/12/2018  
DESIGN DEVELOPMENT

L-004

IRRIGATION  
PLAN





### IRRIGATION SPECIFICATIONS

- THIS PLAN IS DIAGRAMMATIC; ALL PIPING, VALVES, ETC. SHALL BE INSTALLED IN SHRUB BEDS WHERE POSSIBLE AND SHALL FOLLOW THE PLAN AS CLOSE AS IS PRACTICAL.
- LOCATE ALL MAINLINES WITHIN THE PROJECT LIMITS.
- PIPE SIZES ARE CONSTANT BETWEEN PIPE SIZE CALL-OUTS. ALL LATERAL PIPES SHALL BE INSTALLED AT 12" DEPTH AND 24" DEPTH UNDER PAVED AREAS. MAINLINE PIPE SHALL BE INSTALLED AT 18" BELOW GRADE AND 24" BELOW PAVED AREAS.
- REFER TO DETAILS FOR ADDITIONAL INFORMATION.
- ALL PIPING AND WIRING UNDER PAVED AREAS SHALL BE HOUSED IN GLASS 200 PVC SLEEVES INSTALLED AT A 24" DEPTH. SIZE SLEEVES AS NEEDED TO ACCOMMODATE PIPE AND WIRES, UNLESS OTHERWISE SPECIFIED ON DRAWINGS.
- CONTRACTOR SHALL MAKE FIELD ADJUSTMENTS AS NEEDED TO OBTAIN FULL COVERAGE. LANDSCAPE ARCHITECT RESERVES THE RIGHT TO MAKE NOZZLE CHANGES AS NEEDED AT NO ADDITIONAL COST. ADJUST HEAD POSITIONS AND ADD OR DELETE HEADS AS NEEDED DEPENDING ON ACTUAL FIELD CONDITIONS.
- ALL MANUAL GATE AND ELECTRICAL VALVES AND OTHER UNDERGROUND EQUIPMENT SHALL BE HOUSED IN NELSON, AMETER OR EQUAL RECTANGULAR VALVE BOXES.
- NO IN-LINE WIRE SPLICES ALLOWED. SUPPLY VALVE BOXES AT ALL ELECTRICAL JUNCTIONS. TAPE AND BUNDLE WIRES EVERY 25 LINEAR FEET.
- CONTRACTOR IS RESPONSIBLE FOR COMPLETE SYSTEM DRAINAGE. INSTALL KING BROS. 1/2" AUTOMATIC DRAIN VALVES AT LATERAL LINE LOW POINTS. INSTALL MANUAL DRAINS AT ALL MAINLINE LOW POINTS AND WHERE INDICATED ON PLAN. CONTRACTOR SHALL PROVIDE ADJUSTABLE CHECK VALVES ON ANY IRRIGATION HEAD THAT EXPERIENCES LOW HEAD DRAINAGE.
- ALL THREADED PIPE CONNECTIONS SHALL BE MADE USING TEFLON TAPE WRAPPED AT LEAST THREE TIMES AROUND PIPE THREADS.
- ALL GATE AND ELECTRIC VALVES SHALL BE INSTALLED WITH UNIONS ON THE DOWNSTREAM END OF THE VALVE (REFER TO DETAILS).
- ALL PIPE SHALL HAVE A FIRM UNIFORM BEARING FOR THE ENTIRE LENGTH OF EACH LINE, FREE OF ROCKS OR DEBRIS. ALL TRENCHES CONTAINING PIPE AND/OR WIRES SHALL BE BACKFILLED WITH CLEAN TOPSOIL, FREE OF ALL LUMBER, RUBBISH AND ROCKS OVER 1" IN SIZE, OR CLEAN SAND IF CLEAN TOPSOIL IS NOT AVAILABLE.
- CONTRACTOR SHALL PROVIDE OWNER WITH ONE SET OF AS-BUILT RECORD DRAWINGS SHOWING EXACT ACTUAL LOCATIONS OF ALL SPRINKLER EQUIPMENT. CONTRACTOR SHALL ORIENT OWNER WITH COMPLETE SYSTEM AND CONTROLLER OPERATIONS AND WINTERIZATION PROCEDURES.
- CONTRACTOR SHALL SUPPLY AND INSTALL ALL EQUIPMENT SHOWN ON THE PLANS AND INDICATED IN THE SPECIFICATIONS TO ACHIEVE PROPER OPERATION OF SAID EQUIPMENT. ALL EQUIPMENT INSTALLATIONS, ELECTRICAL AND PLUMBING CONNECTIONS SHALL BE IN CONFORMANCE WITH ALL APPLICABLE CODES AND ORDINANCES, THESE SPECIFICATIONS, AND THE MANUFACTURER'S RECOMMENDATIONS WHETHER INDICATED ON THE DRAWINGS OR NOT.
- CONTRACTOR SHALL INCLUDE IN HIS BID ONE FALL WINTERIZATION AND ONE SPRING ACTIVATION OF IRRIGATION SYSTEM. THESE ACTIVITIES SHALL BE INCLUDED AS PART OF OWNER ORIENTATION PROCEDURES. ANY DAMAGE TO THE IRRIGATION SYSTEM OR THE LANDSCAPE AS A RESULT OF FAILURE TO COMPLY WITH THESE REQUIREMENTS SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- CONTRACTOR SHALL GUARANTEE IN WRITING ON HIS COMPANY LETTERHEAD ALL MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE FULL YEAR FOLLOWING ACCEPTANCE OF SYSTEM INSTALLATION.
- BACKFLOW PREVENTOR SHALL BE INSPECTED AND TESTED BY A CERTIFIED BACKFLOW DEVICE INSPECTOR. PROVIDE OWNER WITH ONE COPY OF APPROVAL CERTIFICATE.

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ORIGINAL SHEET SIZE = 30 x 42  
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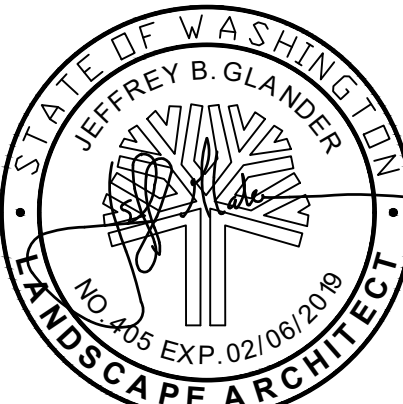
DATE:  
07/12/2018  
DESIGN DEVELOPMENT

L-005

IRRIGATION  
DETAILS

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KMB Project # E1626







Myrica California



Acer palmatum



Gaultheria shallon



Nandina domestica 'Gulf Stream'



Miscanthus sinensis 'GHANA'



Pennisetum alopecuroides 'Hameln'



Bergenia cordifolia 'Red Beauty'



Aucuba japonica 'Gold Dust'



Leucothoe axillaris



Pieris japonica 'Prelude'



Bergenia cordifolia 'Red Beauty'



Mahonia aquifolium 'Orange Flame'



Symphoricarpos mollis



Rubus calycinoides 'Emerald Carpet'



Pleiblastus pygmaea



Rhus aromatica 'Gro-Low'



Molinia caerulea 'Variegata'



Tsuga mertensiana



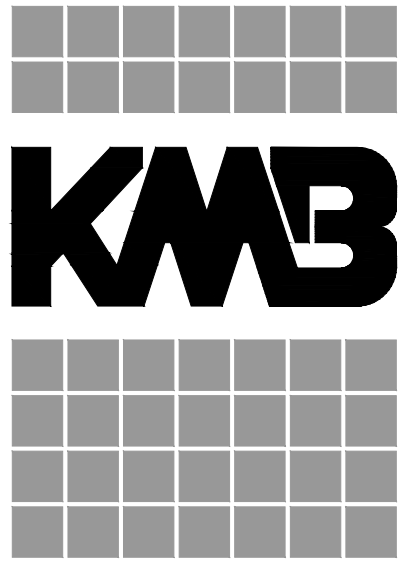
Zelkova serrata 'Green Vase'



Buxus sempervirens 'Fastigiata'

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**L-006**

PLANT PHOTOS