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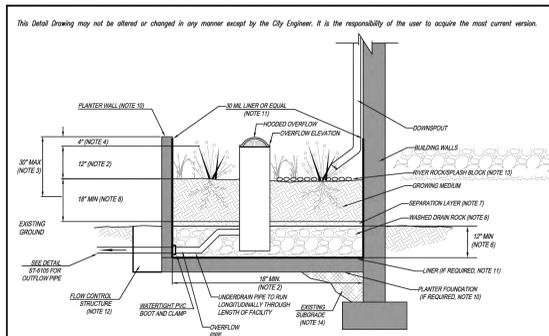
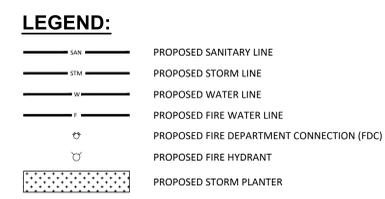
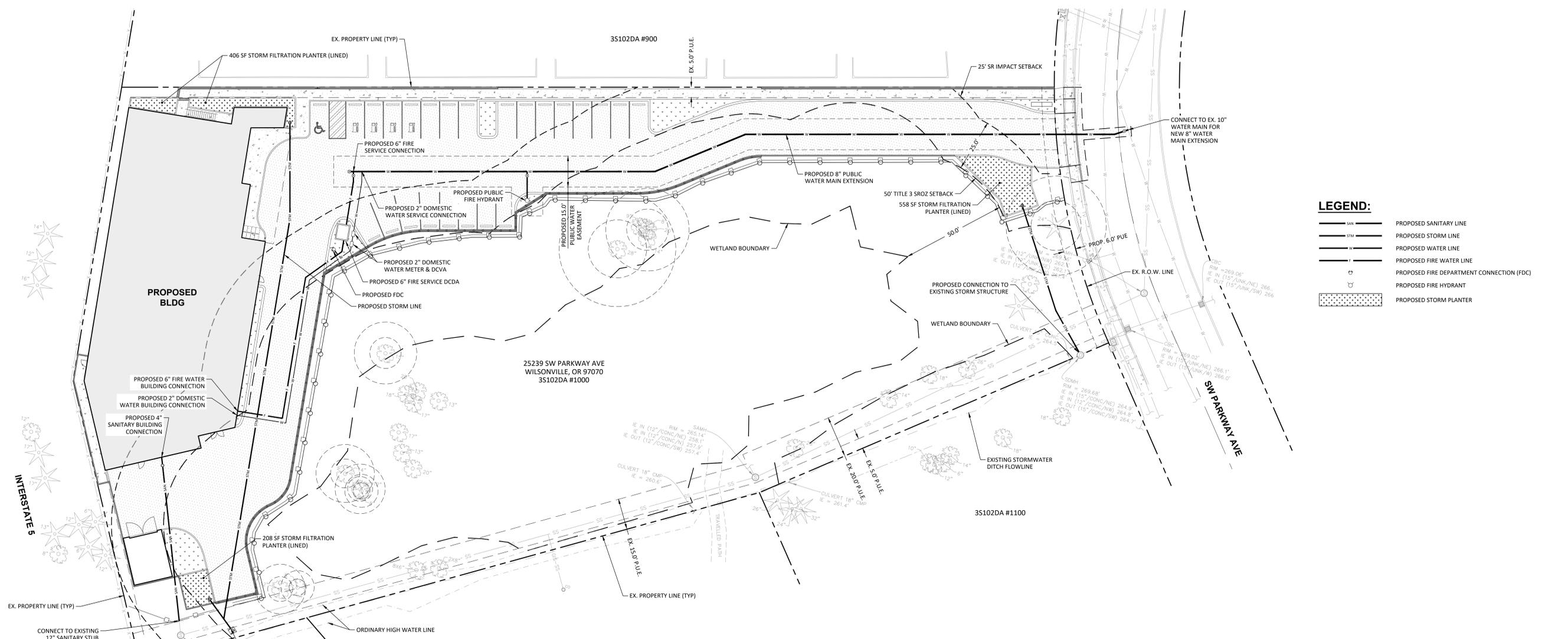


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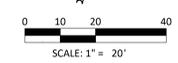


- GENERAL NOTES:
1. PROTECT PROTECTION FROM ALL VEHICLE TRAFFIC, EQUIPMENT STAGING, AND FOOT TRAFFIC IN PROPOSED INFILTRATION AREAS PRIOR TO, DURING AND AFTER CONSTRUCTION...
2. DIMENSIONS: DEPTH OF PLANTER FROM TOP OF GROWING MEDIUM TO OVERFLOW ELEVATION: 12\"/>

Stormwater Planter - Filtration
DRAWING NUMBER: ST-6005 DRAWN BY: SR SCALE: N.T.S.
FILE NAME: ST-6005.DWG APPROVED BY: NK DATE: 4/16/18
CITY OF WILSONVILLE
PUBLIC WORKS STANDARDS

Table with 3 columns: No., Description, Date. Contains revision entries.

DRAWN BY: HHPR
CHECKED BY: HHPR
JOB NO: 22-033
DATE: 10/04/2024
ISSUED FOR: PRELIMINARY
SHEET TITLE: PRELIMINARY UTILITY PLAN
SHEET NO.

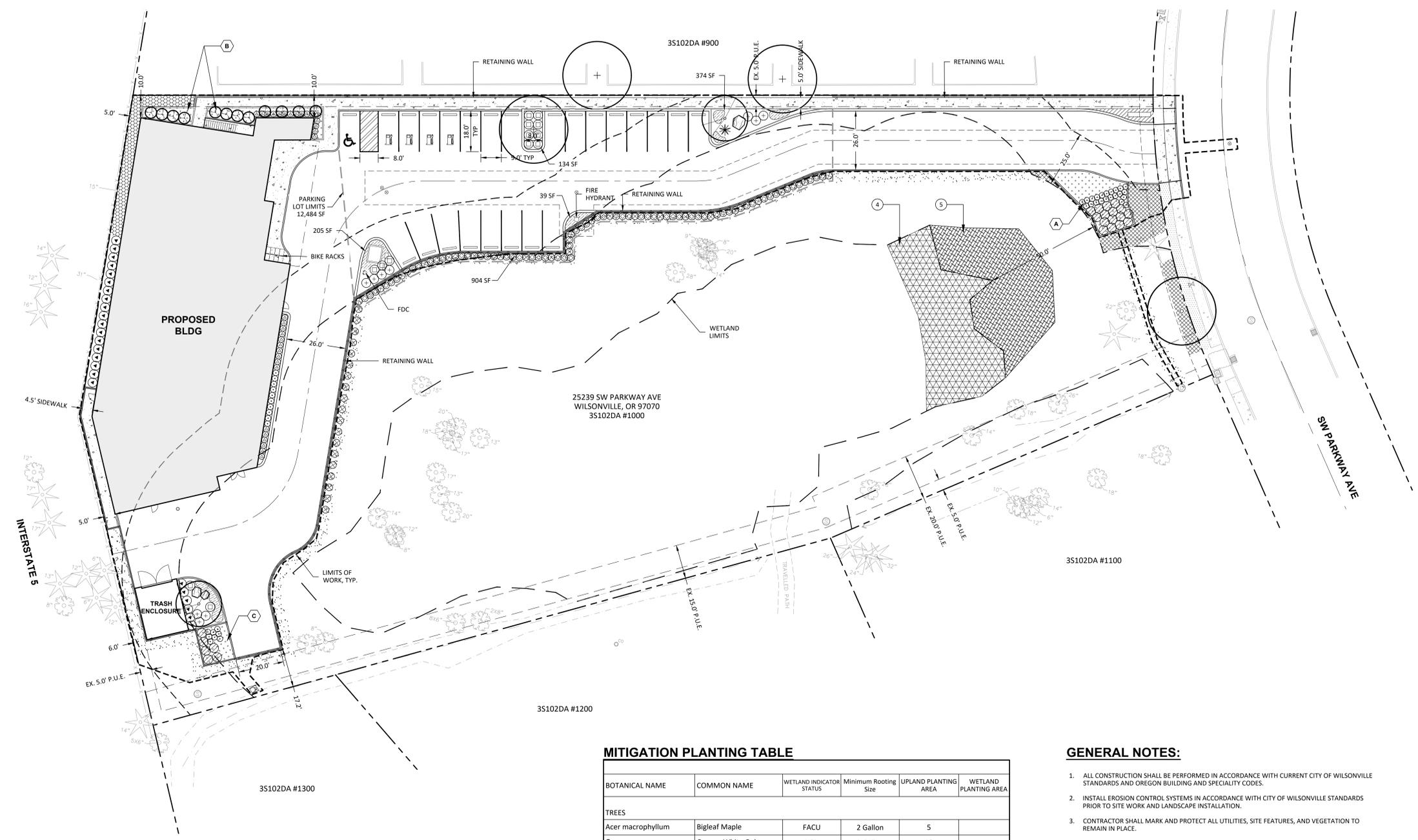


KEY NOTES

- 1 PLACE 12" AMENDED TOPSOIL IN SHRUB AREAS, TYP.
- 2 PLACE 3" BARK MULCH IN SHRUBS AREAS, TYP.
- 3 PLACE 6" AMENDED TOPSOIL IN SEEDED LAWN AREAS, TYP.
- 4 WETLAND MITIGATION PLANTINGS. SEE MITIGATION PLANTING TABLE, DETAIL 6/L101 AND NOTES SHEET L101.
- 5 UPLAND MITIGATION PLANTINGS. SEE MITIGATION PLANTING TABLE, DETAIL 6/L101 AND NOTES SHEET L101.

PLANT SCHEDULE

TREES	
2	EXISTING CONIFEROUS TREE TO BE RETAINED
VARIES	
29	EXISTING DECIDUOUS TREE TO BE RETAINED
VARIES	
20	EXISTING TREE TO BE REMOVED
3	Acer x freemanii 'Jeffersred' - Freeman maple
2.5" CAL.	B&B, WELL BRANCHED, LIMBED TO 6'
	SIZE AT MATURITY: 40' HGT X 30' WIDE
2	Magnolia Victoria - Victoria Magnolia
2" CAL.	B&B, WELL BRANCHED, LIMBED TO 6'
	SIZE AT MATURITY: 25' HGT X 20' WIDE
1	Quercus garryana - Oregon White Oak
2" CAL.	B&B, WELL BRANCHED, LIMBED TO 6'
SHRUBS	
1	Phormium tenax Purpurarum - Purple New Zealand Flax
5 GAL.	CONT., FULL PLANTS, SPACING AS SHOWN
11	Rhaphiopholis indica 'Ballerina' - Ballerina Indian Hawthorn
5 GAL.	CONT., FULL PLANTS, SPACING AS SHOWN
13	Spiraea japonica 'Goldmound' - Goldmound Spirea
5 GAL.	CONT., FULL PLANTS, SPACING AS SHOWN
24	Euonymus japonicus 'Grandifolius' - Japanese Euonymus
5 GAL.	CONT., FULL PLANTS, SPACING AS SHOWN
24	Buxus sempervirens 'Green Pillar' - Green Pillar Boxwood
5 GAL.	CONT., FULL PLANTS, SPACING AS SHOWN
GROUNDCOVER	
40	Ophiopogon planiscapus 'Yapard' - Black Beard Mondo Grass
1 GAL.	CONT., FULL PLANTS, 18" O.C.
138	Arctostaphylos uva-ursi 'Massachusetts' - Kinnikinnick
1 GAL.	CONT., FULL PLANTS, 30" O.C.
40	Hakonechloa macra 'All Gold' - All Gold Japanese Forest Grass
1 GAL.	CONT., FULL PLANTS, 24" O.C.
123	Nandina domestica 'Firepower' - Firepower Heavenly Bamboo
1 GAL.	CONT., FULL PLANTS, 24" O.C.
SEEDING	
	NORTHWEST SUPREME LAWN SEED MIX BY SUNMARK SEEDS
	8 LBS / 1000 SF
	NATIVE MEADOW SEED MIX BY SUNMARK SEEDS
	1 LBS / 1000 SF
VINES	
57	Euonymus fortunei 'Wolong Ghost' - Silver-Veined Wintercreeper
1 GAL.	CONT., FULL PLANTS, SPACING AS SHOWN
MITIGATION PLANTINGS	
	WETLAND - 2000 SF (SEE MITIGATION PLAN TABLE)
	UPLAND - 2000 SF (SEE MITIGATION PLAN TABLE)
STORM WATER FACILITIES	
7	Acer circinatum 'Pacific Fire' - Pacific Fire Vine Maple
60" HGT	WELL BRANCHED, MULTI-TRUNKED
	SMALL TREE
14	Salix purpurea 'Nana' - Dwarf Blue Arctic Willow
30" HGT	CONT., FULL PLANTS, SPACING AS SHOWN
	LARGE SHRUB
30	Cornus kelseyi - Kelsey Dogwood
1 GAL.	CONT., FULL PLANTS, SPACING AS SHOWN
	SMALL SHRUB
16	Polystichum munifolium - Western Sword Fern
1 GAL.	CONT., FULL PLANTS, SPACING AS SHOWN
	SMALL SHRUB
1348	Carex testacea - Orange New Zealand Sedge



STORM WATER FACILITY TABLE

Basin Number	SW Facility SF	SW Facility Zone A	SW Facility Zone B	Trees / Large Shrubs	Small Shrubs	Groundcover
A	558	558	0	17	22	642
B	406	406	0	12	16	467
C	208	208	0	6	8	239
TOTAL	1172	1172	0	35	46	1348

ZONE A : 3 LARGE SHUBS / SMALL TREES, 4 SMALL SHRUBS, 115 GROUND COVERS PLANTS (PER 100 SF)

PLANNING NOTES

CITY OF WILSONVILLE CODE COMPLIANCE

SITE AREA
LANDSCAPE REQUIRED (15%) 100,284 SF
15,043 SF

LANDSCAPE PROVIDED:
SROZ 56,221 SF
PARKING LOT LANDSCAPING 2,172 SF
SITE LANDSCAPING 3,426 SF
TOTAL (62%) 61,819 SF

PARKING LOT AREA
LANDSCAPE REQUIRED (10%) 12,484 SF
1,248 SF

PARKING LOT
LANDSCAPE PROVIDED (13%) 1,617 SF

REQUIRED PL TREES (1 / 8 STALLS)
24 STALLS = 3 TREES REQUIRED

MITIGATION PLANTING TABLE

BOTANICAL NAME	COMMON NAME	WETLAND INDICATOR STATUS	Minimum Rooting Size	UPLAND PLANTING AREA	WETLAND PLANTING AREA
TREES					
Acer macrophyllum	Bigleaf Maple	FACU	2 Gallon	5	
Quercus garryana	Oregon White Oak	UPL	2 Gallon	10	
Populus balsamifera	Balsam Poplar	FAC	2 Gallon		5
Pinus ponderosa var. willamettensis	Willantte Valley Ponderosa Pine	FACU	2 Gallon	5	
Fraxinus latifolia	Oregon Ash	FACW	2 Gallon		15
			Total trees	20	20
SHRUBS					
Amelanchier alnifolia	Western Serviceberry	FACU	1 Gallon	5	
Symphoricarpos alba	Snowberry	FACU	1 Gallon	5	
Mahonia aquifolium	Tall Oregon Grape	UPL	1 Gallon	10	
Polystichum munifolium	Pacific Sword Fern	FACU	1 Gallon		
Cornus sericea ssp. sericea	Red-osier Dogwood	FACW	1 Gallon		5
Salix hookeriana	Hooker's Willow	FACW	1 Gallon		10
Spiraea douglasii	Douglas spirea	FACW	1 Gallon		5
			Total shrubs	20	20
GRASSES AND FORBS*					
Elymus glaucus	Blue Wild-rye	FACW	5 lbs		X
Festuca idahoensis	Idaho Fescue	FACU	5 lbs	X	

*Grass seed to be applied in all temporary disturbed areas following construction at 7-10 PLS / Acre

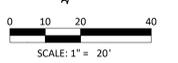
GENERAL NOTES:

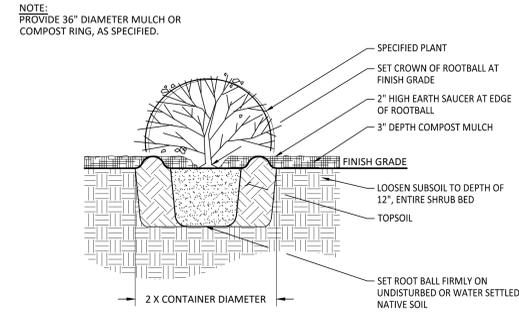
1. ALL CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH CURRENT CITY OF WILSONVILLE STANDARDS AND OREGON BUILDING AND SPECIALTY CODES.
2. INSTALL EROSION CONTROL SYSTEMS IN ACCORDANCE WITH CITY OF WILSONVILLE STANDARDS PRIOR TO SITE WORK AND LANDSCAPE INSTALLATION.
3. CONTRACTOR SHALL MARK AND PROTECT ALL UTILITIES, SITE FEATURES, AND VEGETATION TO REMAIN IN PLACE.
4. CONTRACTOR SHALL REMOVE ALL WEEDS AND INVASIVE SPECIES PRIOR TO PLANTING OR SEEDING.
5. ALL DISTURBED AREAS SHALL BE SEEDING.
6. PRIOR TO PLANTING, CONTRACTOR SHALL TEST ON-SITE SOILS FOR SOIL FERTILITY BY CERTIFIED TESTING LAB. IF NECESSARY, BACKFILL SOILS FOR TREE PITS, SHRUB AND GROUNDCOVER AREAS SHALL BE AMENDED AS RECOMMENDED BY SOIL ANALYSIS REPORT.
7. ALL SEEDED AREAS SHALL BE STRIPPED OF VEGETATION, SCARIFIED AND RECEIVE 4" OF TOPSOIL PRIOR TO APPLICATION OF SEED.
8. ALL PLANTER BEDS SHALL BE SCARIFIED 12" BELOW FINISHED GRADE AND HAVE 12" OF TOPSOIL ADDED TO BRING BACK TO FINISHED GRADE PRIOR TO PLANTING.
9. CONTRACTOR TO INSTALL 3" LAYER OF COMPOST MULCH AT ALL TREE, SHRUB AND GROUNDCOVER AREAS.
10. LANDSCAPE INSTALLATION SHALL INCLUDE PROVISION OF AN AUTOMATIC IRRIGATION SYSTEM TO SUSTAIN LANDSCAPE PLANTINGS, MEETING LOCAL AND STATE BUILDING CODES.
11. PLANT MATERIAL INSTALLED SHALL CONFORM IN SIZE AND GRADE TO THE "AMERICAN STANDARD FOR NURSERY STOCK" CURRENT EDITION.
12. QUANTITIES OF PLANT MATERIALS SHALL BE AS DETERMINED BY CONTRACTOR IN ACCORDANCE WITH SPECIFIED SPACING OR LOCATION ON PLAN. MATERIAL QUANTITIES SHOWN ON PLAN ARE FOR CONTRACTOR CONVENIENCE ONLY AND SHALL BE VERIFIED BY CONTRACTOR PRIOR TO INSTALLATION. SURPLUS OR SHORTAGES OF PLANT QUANTITIES SHALL BE RESPONSIBILITY OF CONTRACTOR.
13. LANDSCAPE CONTRACTOR SHALL WATER PLANTINGS FOR DURATION OF 1-YEAR WARRANTY PERIOD AFTER INSTALLATION AND GUARANTEE ALL PLANTINGS TO BE IN SATISFACTORY HEALTH. LANDSCAPE CONTRACTOR SHALL REPLACE ALL DAMAGED, DEAD, OR DYING PLANTS COVERED BY WARRANTY WITHIN 30 DAYS OF INITIAL IDENTIFICATION OF CONDITION.

REVISIONS

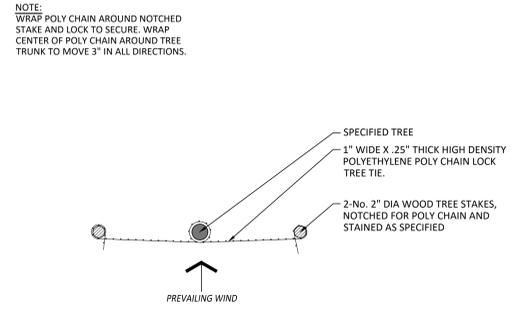
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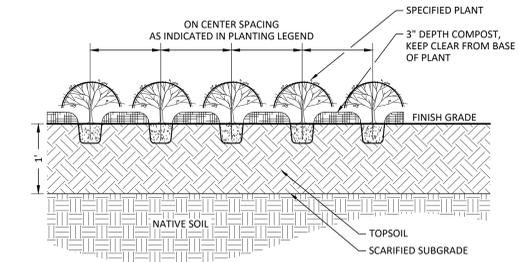




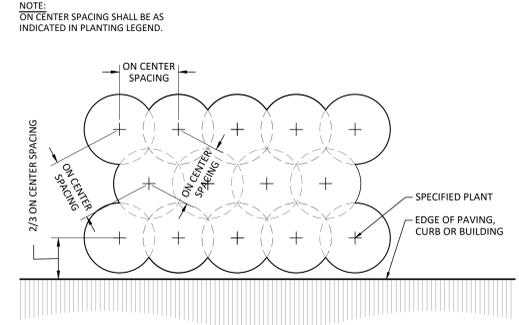
3 SHRUB PLANTING
Section NOT TO SCALE



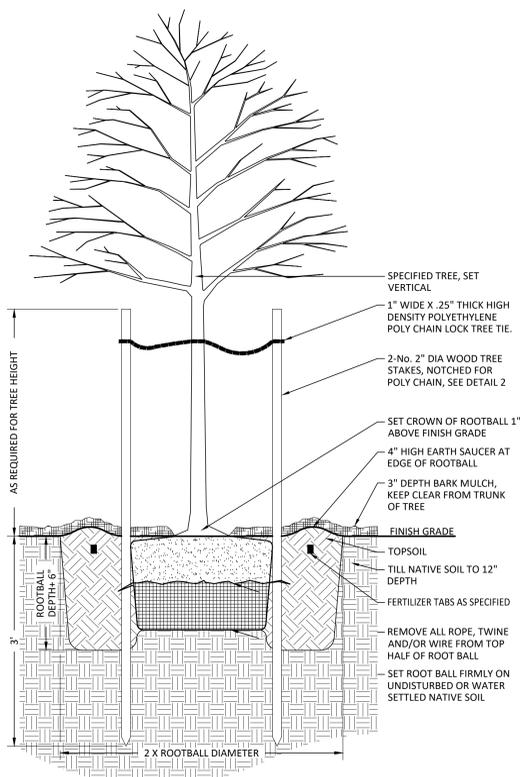
1 TREE STAKING
Plan NOT TO SCALE



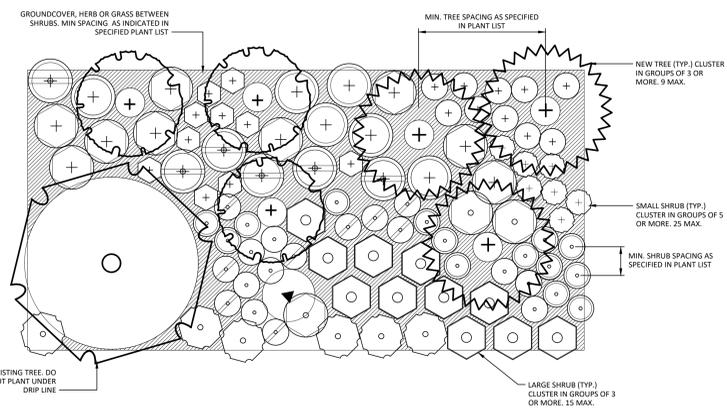
4 GROUNDCOVER PLANTING
Section NOT TO SCALE



5 TRIANGULAR SPACING
Plan SCALE: N.T.S. NOT TO SCALE



2 DECIDUOUS TREE PLANTING
Section NOT TO SCALE



6 TYPICAL MITIGATION PLANTING
Section Scale: 1"=8'-0"

MITIGATION PLANTING NOTES:

PLANTING METHODS, QUANTITIES AND PLACEMENT

- DEEP ROOTING TREES AND SHRUBS SHALL NOT BE PLANTED ON TOP OF CONCRETE PIPES OR WITHIN 10 FEET OF RETAINING WALLS, INLET/OUTLET STRUCTURES OR OTHER CULVERTS.
- LARGE TREES OR SHRUBS SHALL NOT BE PLANTED ON BERMS OVER 4 FEET TALL THAT IMPOUND WATER. SMALL TREES OR SHRUBS WITH FIBROUS ROOT SYSTEMS MAY BE INSTALLED ON BERMS THAT IMPOUND WATER AND ARE LESS THAN 4 FEET TALL.
- CONTAINERIZED STOCK SHALL BE INSTALLED ONLY FROM FEBRUARY 1 THROUGH MAY 1 AND OCTOBER 1 THROUGH NOVEMBER 15. IF PLANTING OUTSIDE OF THESE TIMES IS PROPOSED, CONTRACTOR SHALL SUBMIT PROCEDURES OF ADDITIONAL MEASURES TO BE IMPLEMENTED TO ENSURE SURVIVAL.

ACCESS, MONITORING AND MAINTENANCE

- CONTRACTOR SHALL PROVIDE MONITORING AND MAINTENANCE FOR A PERIOD OF 2 YEARS FOLLOWING SUBSTANTIAL COMPLETION AND ACCEPTANCE.
- CONTRACTOR SHALL SUBMIT MAINTENANCE SCHEDULE, INCLUDING RESPONSIBLE PARTY, CONTACT INFORMATION, DATES OF INSPECTION (MINIMUM 3 PER GROWING SEASON, AND ONE PRIOR TO ONSET OF GROWING SEASON) AND ESTIMATED MAINTENANCE SCHEDULE THROUGHOUT THE 2-YEAR MONITORING PERIOD.
- CONTRACTOR SHALL INSPECT THE SITE WITH PROJECT ENGINEER OR OWNER'S REPRESENTATIVE DURING SCHEDULED SITE VISITS. PLANTINGS SHALL BE EVALUATED AND REPLACED AS NECESSARY TO ENSURE A MINIMUM 80% SURVIVAL RATE OF THE INSTALLATION AND 90% AERIAL COVERAGE.
- NON-NATIVE, INVASIVE PLANT SPECIES SHALL BE REMOVED WHEN OCCUPYING GREATER THAN 20% OF THE SITE.

MULCHING AND IRRIGATION

- TREES, SHRUBS AND GROUNDCOVERS PLANTED IN UPLAND AREAS SHALL BE MULCHED A MINIMUM 3" DEPTH AND 18" DIAMETER. APPROPRIATE MULCHES SHALL BE DERIVED FROM COMPOSTED BARK OR LEAVES THAT HAVE NOT BEEN CHEMICALLY TREATED. ORGANIC MULCH SHALL NOT BE USED IN FREQUENTLY INUNDATED AREAS (SWALE TREATMENT AREA).
- CONTRACTOR SHALL SUBMIT SUPPLEMENTAL WATERING PLAN FOR APPROVAL BY CITY. CONTRACTOR SHALL WATER FOR A MINIMUM 2-YEAR PLANT ESTABLISHMENT PERIOD. WATERING SHALL BE A MINIMUM RATE OF 1 INCH PER WEEK FROM JUNE 15 THROUGH OCTOBER 15.

EROSION CONTROL

- INSTALL AND/OR MAINTAIN EROSION CONTROL SYSTEMS IN ACCORDANCE WITH CITY OF WILSONVILLE & CLATSOP COUNTY STANDARDS PRIOR TO SITE WORK AND LANDSCAPE INSTALLATION.
- GRADING, SOIL PREPARATION, AND SEEDING SHALL BE PERFORMED DURING OPTIMAL WEATHER CONDITIONS AND AT LOW FLOW LEVELS TO MINIMIZE SEDIMENT IMPACTS.
- SITE DISTURBANCE SHALL BE MINIMIZED AND DESIRABLE NATIVE VEGETATION RETAINED WHERE POSSIBLE.
- PLASTIC MESH THAT CAN ENTANGLE WILDLIFE IS NOT PERMITTED.

WETLAND PLANTING GENERAL NOTES

- ALL INVASIVE, NON-NATIVE OR NOXIOUS PLANT MATERIAL IS TO BE REMOVED. THE SUBJECT SITE IS TO EMPLOY MANUAL/MECHANICAL MANAGEMENT STRATEGIES AND PESTICIDE MANAGEMENT STRATEGIES THROUGHOUT MAINTENANCE PERIOD OR UNTIL HEALTHY STAND OF DESIRABLE VEGETATION IS ESTABLISHED.
- PRESERVE SITE'S EXISTING NATIVE VEGETATION TO THE MAXIMUM EXTENT PRACTICABLE. EVERY EFFORT SHALL BE MADE TO PROTECT A SITE'S EXISTING NATIVE VEGETATION. NATIVE VEGETATION ALONG SENSITIVE

AREAS AND VEGETATED CORRIDORS SHALL BE RETAINED TO THE MAXIMUM EXTENT PRACTICABLE

- REPLANTING/ENHANCEMENT AS FOLLOWS:
 - REFER TO PLANT TABLE, DETAILS AND PLAN FOR PLANT SPECIES, LOCATION, DISTRIBUTION, QUANTITIES, SIZE, CONDITION AND REQUIREMENTS.
 - ALL PLANTS TO BE PLANTED WITH ADDITIONAL ORGANIC MATTER IF REQUIRED BUT NO TRADITIONAL FERTILIZER IS NECESSARY. PLANT PLACEMENT SHALL BE CONSISTENT WITH THE FORM OF THE NATURALLY OCCURRING PLANT COMMUNITY. SHRUBS SHALL BE PLACED IN SINGLES OR CLUSTERS OF THE SAME SPECIES TO PROVIDE A NATURAL PLANTING SCHEME.
- PLANT INSTALLATION REQUIREMENTS. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF SITE PLANTING AS SPECIFIED. ALL TREES AND SHRUBS PLANTED IN THE UPLAND AREA ARE TO BE MULCHED A MINIMUM OF THREE INCHES IN DEPTH AND 18 INCHES IN DIAMETER. APPROPRIATE MULCHES INCLUDE THOSE MADE FROM COMPOSTED LEAVES OR BARK THAT HAVE NOT BEEN CHEMICALLY TREATED. TEMPORARY IRRIGATION WILL BE PROVIDED AND USED DURING THE TWO YEAR MAINTENANCE PERIOD.

SITE PREPARATION

- CONTRACTOR SHALL REMOVE ALL WEEDS AND INVASIVE SPECIES PRIOR TO PLANTING. ALL SEEDED AREAS SHALL BE STRIPPED OF VEGETATION, SCARIFIED AND RECEIVE 4" OF TOPSOIL PRIOR TO APPLICATION OF SEED.
- FOR UPLAND SITES WITH AT LEAST ONE FOOT OF NATIVE TOPSOIL, BUT CONTAINING A NON-NATIVE, INVASIVE SEED BANK OR PLANTS, REMOVE THE UNDESIRABLE PLANTS, ROOTS, AND SEEDS PRIOR TO PLANTING.
- ALL TREE AND SHRUB PLANTING AREAS SHALL BE SCARIFIED 12" BELOW FINISHED GRADE AND HAVE 12" OF TOPSOIL ADDED TO BRING BACK TO FINISHED GRADE PRIOR TO PLANTING.
- FOR UPLAND SITES WITH EITHER DISTURBED AND COMPACTED SOILS OR LESS THAN ONE FOOT OF TOPSOIL AND INVASIVE, NON-NATIVE SEED BANK OR PLANTS THAT HAVE BECOME ESTABLISHED:
 - REMOVE UNDESIRABLE PLANTS, ROOTS, AND SEEDS PRIOR TO ADDING TOPSOIL.
 - TILL SUB-GRADE IN THESE AREAS TO DEPTH OF AT LEAST FOUR INCHES AND ADD 12" MINIMUM CLEAN COMPOST-AMENDED TOPSOIL. COMPOST AMENDED TOPSOIL SHALL HAVE THE FOLLOWING CHARACTERISTICS:
 - TEXTURE: MATERIAL PASSES THROUGH 1-INCH SCREEN
 - FERTILITY: 35% ORGANIC MATTER
 - IN THE EVENT OF FLOODPLAIN GRADING, OVER-EXCAVATE SUB-GRADE TO ENSURE 12 INCHES OF TOPSOIL CAN BE APPLIED WITHOUT IMPACTING SURFACE WATER ELEVATIONS.
- WHERE APPROPRIATE AND NECESSARY FOR EROSION CONTROL OR TO ENHANCE ORGANIC MATTER, LEAF COMPOST MAY BE PLACED UNIFORMLY ON TOPSOIL. OTHER AMENDMENTS, CONDITIONERS, AND BIO-AMENDMENTS MAY BE ADDED AS NEEDED TO SUPPORT

SPECIFIED PLANTS OR ADJUST SOIL pH. CONVENTIONAL FERTILIZERS (N-P-K) SHALL NOT BE USED FOR NATIVE PLANTINGS.

MAINTENANCE

- CONTRACTOR SHALL PROVIDE MONITORING AND MAINTENANCE OF MITIGATION PLANTINGS AND VEGETATED CORRIDOR FOR A PERIOD OF 2 YEARS FOLLOWING SUBSTANTIAL COMPLETION AND ACCEPTANCE.

REVISIONS

No.	Description	Date

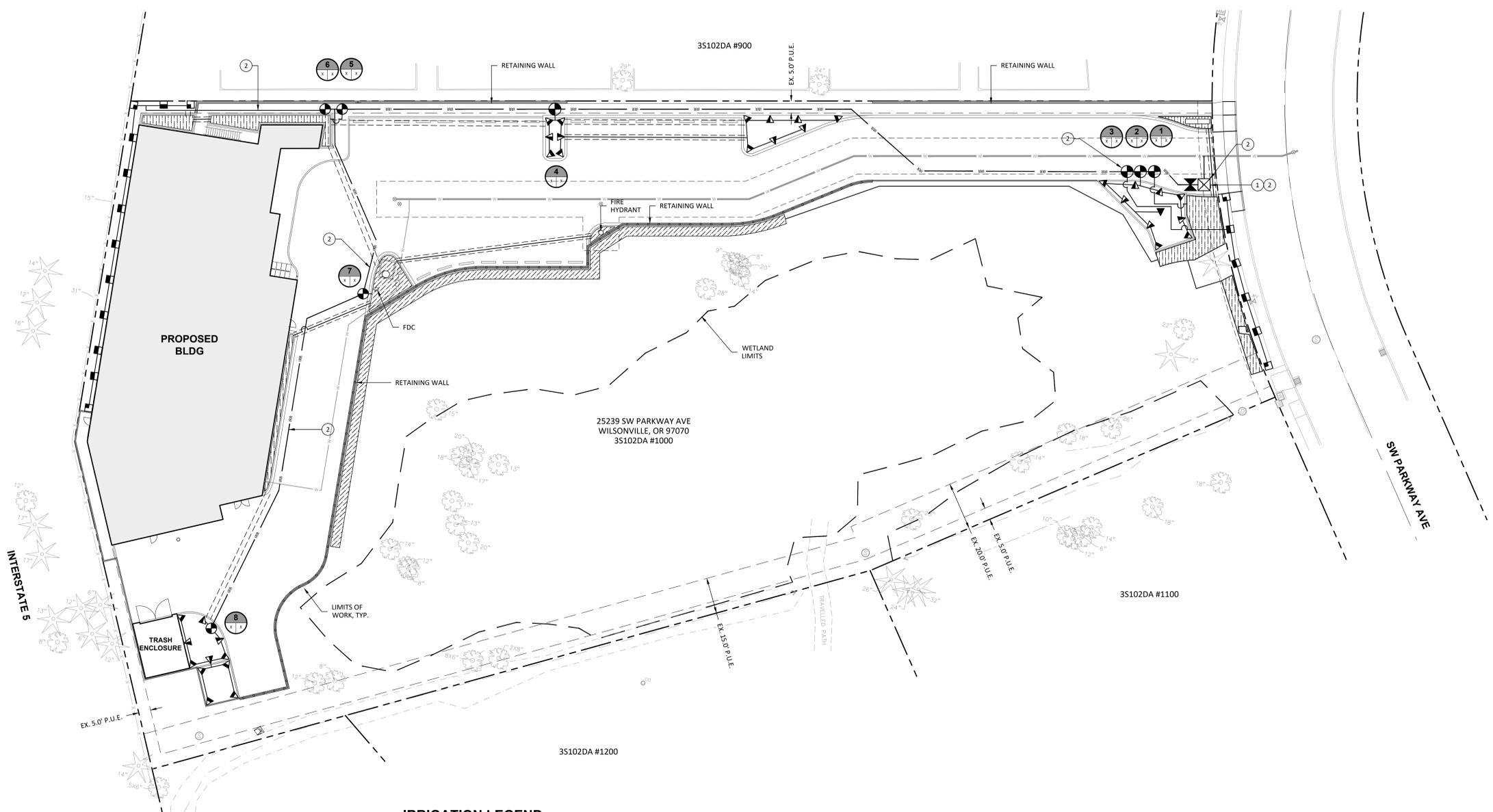
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PLANTING DETAILS
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KEY NOTES

- POINT OF CONNECTION - DOMESTIC WATER LINE, SEE CIVIL UTILITY PLANS
- IRRIGATION PLANS ARE SCHEMATIC REPRESENTATIONS ONLY. PLACE LINES AND VALVES IN PLANTER AREAS EXCEPT WHERE SLEEVES ARE SHOWN.

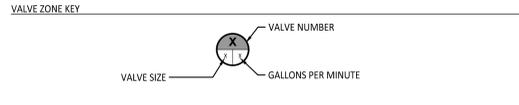
IRRIGATION NOTES

- CONTRACTOR SHALL INSPECT SITE AND VERIFY CONDITIONS AND DIMENSIONS PRIOR TO CONSTRUCTION.
- IRRIGATION PLANS ARE SCHEMATIC REPRESENTATIONS ONLY. PLACE LINES IN COMMON TRENCH WHENEVER POSSIBLE. FIELD ADJUST LINES TO AVOID CONFLICT WITH UTILITIES.
- IRRIGATION LATERAL AND MAINLINE PIPE SHOW OUTSIDE OF PLANTING AREAS FOR CLARIFICATION ONLY. PLACE LATERAL AND MAINLINE PIPE IN PLANTER AREAS UNLESS IRRIGATION SLEEVES ARE SHOWN.
- COORDINATE IRRIGATION WITH PLANTING PLAN AND SITE IMPROVEMENTS AND USE TRIANGULAR SPACING FOR HEAD TO HEAD COVERAGE. COORDINATE IRRIGATION HEAD LAYOUT WITH NEW PLANT MATERIALS. LOCATE SPRAY HEADS 30" FROM BASE OF TREE. DO NOT ALTER HEAD LOCATION, PIPE LAYOUT, OR VALVE LOCATION WITHOUT WRITTEN APPROVAL FROM CONSTRUCTION MANAGER. NOTIFY OWNER'S REPRESENTATIVE IF DISCREPANCIES OCCUR BETWEEN PLANS AND FIELD CONDITIONS.
- ALL COMPONENTS OF IRRIGATION SYSTEM SHALL BE INSTALLED AND PROPERLY ADJUSTED TO PROVIDE ADEQUATE COVERAGE AND MINIMIZATION OF OVERSPRAY ONTO WALKS, BUILDINGS, PARKING AREAS, ETC.
- ALL PIPE SIZES INDICATED ARE MINIMUMS. CONTRACTOR MAY NOT DECREASE PIPE SIZE. LARGER PIPE SIZES MAY BE USED AT NO ADDITIONAL COST TO OWNER.
- INSTALL ALL IRRIGATION PIPE AND CONTROL WIRES IN MINIMUM 4" PVC SLEEVE BELOW ALL PAVED SURFACES UNLESS OTHERWISE INDICATED ON PLANS. INSTALL SLEEVES PRIOR TO PLACEMENT OF PAVEMENTS AND PAVEMENT SUB-BASE.
- COORDINATE IRRIGATION POINTS OF CONNECTION AND LOCATION OF AUTOMATIC CONTROL VALVES WITH PROJECT MANAGER. COORDINATE ALL WORK WITH OTHER TRADES, I.E. ELECTRICAL, MASONRY, ETC.
- CONTRACTOR TO PROGRAM AUTOMATIC CONTROLLER TO ALLOW FOR EQUIVALENT OF 1" OF WATER PER WEEK, OR PER SITE AND PLANTING NEEDS FOR BEST PLANT HEALTH.
- ALL PIPES SHALL BE TRENCHED. PROVIDE POSITIVE DRAINAGE OF MAINLINE. PLACE MANUAL DRAIN AT LOW POINTS IN MAINLINE. IDENTIFY LOCATIONS ON AS-BUILTS.
- USE 45° ELLS INSTEAD OF 90° ELLS ON ALL MAINLINES 2-1/2" AND LARGER. INSTALL CONCRETE THRUST BLOCKS AT ALL MAINLINE CHANGES IN DIRECTION. POUR MINIMUM OF 1 CUBIC FOOT OF CONCRETE ON UNDISTURBED SOIL. WRAP PIPE IN PLASTIC WRAP PRIOR TO COVERING WITH CONCRETE.
- CONTRACTOR TO INSTALL CONTROLLER AND ACCESSORIES AS REQUIRED. CONTRACTOR TO FURNISH CONTROL WIRES FROM VALVES TO CONTROLLER. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING 110 VOLT SERVICE FROM BUILDING AND CONNECTION TO CONTROLLER SERVICE.
- IRRIGATION SYSTEMS SHALL BE TWO (2) WIRE DECODER CONTROL SYSTEMS UNLESS MULTI-WIRE SYSTEM IS SPECIFIED. CONTRACTOR TO PROVIDE DECODERS FOR EACH REMOTE CONTROL VALVE.
- ALL SPRINKLER BODIES TO BE 6" POP-UP IN LAWN AREAS AND 12-INCH POP-UP IN SHRUB, GROUNDCOVER AND STORM WATER PLANTER AREAS.



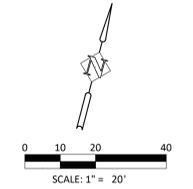
IRRIGATION LEGEND

EQUIPMENT	
SYMBOL	DESCRIPTION
	BACKFLOW PREVENTER - FEBCO MODEL 850, 1 1/2" OR APPROVED EQ.
	BALL VALVE - NIBCO T-560 OR APPROVED EQUAL
	REMOTE CONTROL VALVE - HUNTER ICV OR APPVD EQ. SIZE AS SHOWN REMOTE CONTROL VALVE
	QUICK COUPLER - HUNTER HQ3 OR APPROVED EQUAL.
	CONTROLLER - HUNTER HCC. TWO WIRE SYSTEM. RAIN CLIK RAIN SENSOR. # STATIONS. LOCATION TO BE APPROVED BY OWNER. INSTALL IN HUNTER SS PEDESTAL.
PIPE	
	MAINLINE - 2" SCH. 40 PVC
	SLEEVING - 4" SLEEVE FOR PIPES < 2"
	LATERAL LINE - .75", CLASS 200 PVC
	LATERAL LINE - 1.0", 1.25" & 1.5" CLASS 200 PVC
	LATERAL LINE - SIZE AS INDICATED, CLASS 200 PVC
	DRIPLINE - HUNTER HDL SUB SURFACE DRIPLINE



HEAD SCHEDULE

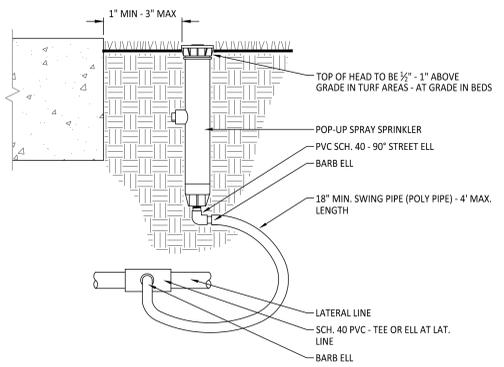
SYMBOL	DESCRIPTION	PSI	RADIUS	GPM
HUNTER PRS30 HEADS W/ PRO-SPRAY NOZZLES				
	PROS-PRS30-5 (F, H & Q)	30	5'	.47, .23, .12
	PROS-PRS30-8 (F, H & Q)	30	8'	.97, .47, .24
	PROS-PRS30-10 (F, H & Q)	30	10'	1.59, .88, .42
	PROS-PRS30-12 (F, H & Q)	30	12'	2.70, 1.30, .67
	PROS-PRS30-15 (F, H & Q)	30	15'	3.75, 1.86, .97
	PROS-PRS30-STRIP (SS, RCS & LCS)	30	5'X30', 5'X15'	1.30, .65
	HUNTER ROOT WATERING SYSTEM	40	NA	.25
HUNTER MPR40 HEADS W/ MP ROTATOR NOZZLES				
	MP55530, MPLCS515 & MPRCS515	40	5'X30', 5'X15'	.44, .22
	MP1000 (360, 180, 90)	40	8'-15'	.75, .37, .19
	MP2000 (360, 180, 90)	40	13'-21'	1.47, .74, .40
	MP3000 (360, 180, 90)	40	22'-30'	3.64, 1.82, .86



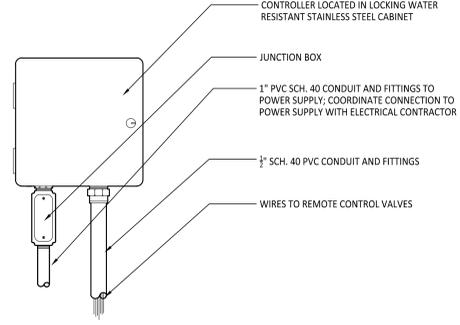
REVISIONS

No.	Description	Date

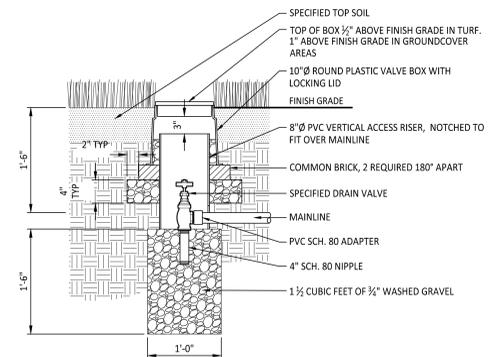
DRAWN BY: HHP
 CHECKED BY: HHP
 JOB NO: 22-033
 DATE: 10/04/2024
 ISSUED FOR: PRELIMINARY
 SHEET TITLE
 IRRIGATION PLAN
 SHEET NO.



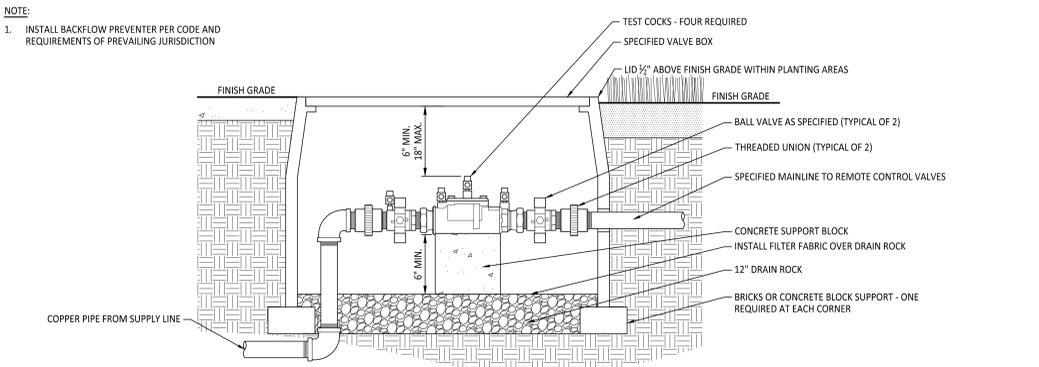
7 Section
12" POP-UP SPRAY SPRINKLER
NOT TO SCALE



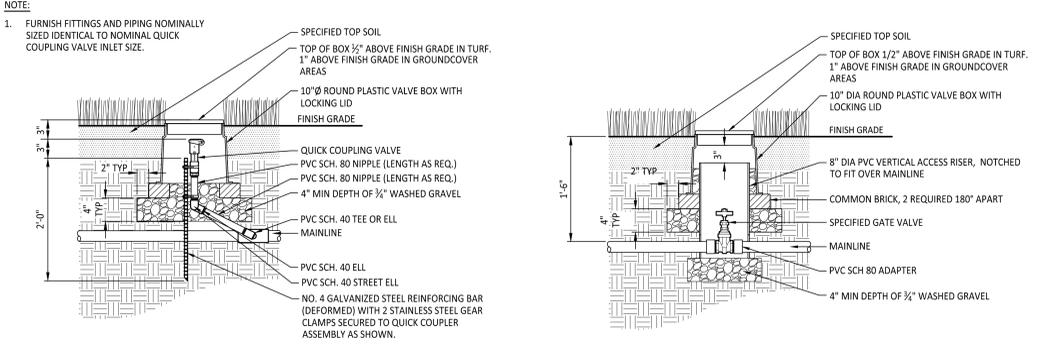
8 Section
CONTROLLER
NOT TO SCALE



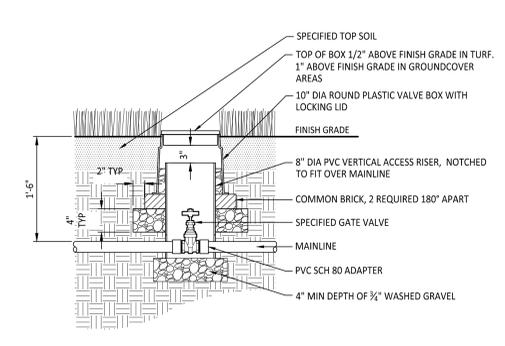
9 Section
MANUAL DRAIN VALVE
NOT TO SCALE



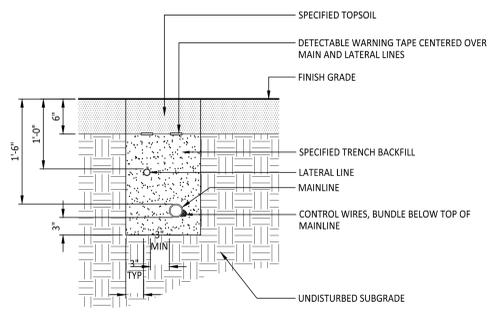
1 Section
BACKFLOW PREVENTER
NOT TO SCALE



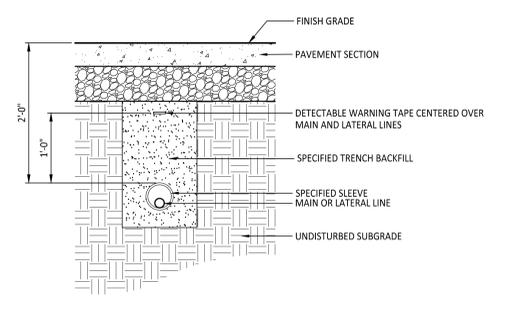
3 Section
QUICK COUPLER
NOT TO SCALE



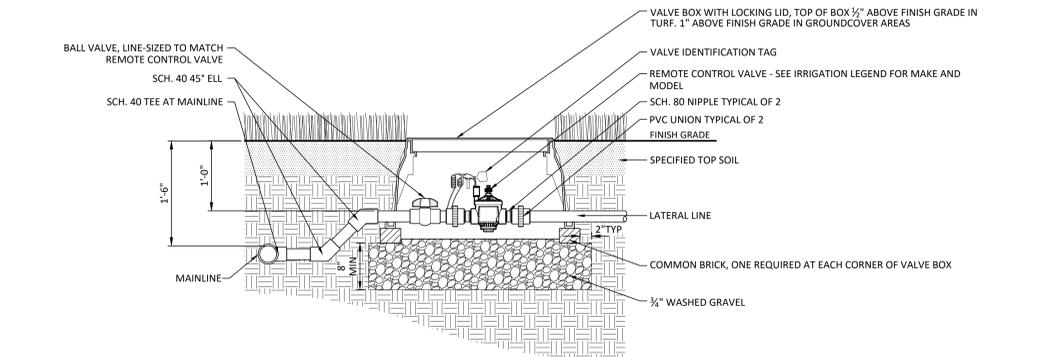
2 Section
ISOLATION VALVE
NOT TO SCALE



5 Section
TYPICAL TRENCHING
NOT TO SCALE



4 Section
SLEEVING
NOT TO SCALE



6 Section
REMOTE CONTROL VALVE
NTS

REVISIONS

No.	Description	Date

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CHECKED BY: HHPR
JOB NO: 22-033
DATE: 10/04/2024
ISSUED FOR: PRELIMINARY
SHEET TITLE
IRRIGATION DETAILS
SHEET NO.