

LEGEND

- EXISTING TREE TO REMAIN
- EXISTING TREE TO BE REMOVED
- TREE PROTECTION FENCE
- CLEARING LIMITS, SEE CIVIL

TREE SYMBOL LEGEND

- CONIFEROUS TREE  
SPECIES CODE (DF = DOUGLAS FIR, C = CEDAR, H = HEMLOCK)  
DIAMETER BREST HEIGHT (DBH)  
DF 24"
- DECIDUOUS TREE  
SPECIES CODE (M = MAPLE, A = ALDER)  
DIAMETER BREST HEIGHT (DBH)  
M 16"
- CRITICAL ROOT ZONE (CRZ), TYP.

TREE PROTECTION NOTES

- CONTRACTOR SHALL VERIFY ON-SITE CONDITIONS PRIOR TO BIDDING AND CONSTRUCTION.
- THE CONTRACTOR IS RESPONSIBLE FOR READING THE PLANS, SPECIFICATIONS AND NOTES.
- PER CITY OF PUYALLUP MUNICIPAL CODE SIGNIFICANT TREES ARE ALL HEALTHY AND GROWING TREES GREATER THAN FIFTEEN (15') INCHES DBH (DIAMETER BREST HEIGHT = 4.5' ABOVE GROUND).
- PER CITY OF PUYALLUP VEGETATION MANAGEMENT STANDARDS THE CRITICAL ROOT PROTECTION ZONE FOR SIGNIFICANT TREES, GROUPINGS OF SIGNIFICANT TREES, A STAND OF SIGNIFICANT TREES, OR A HERITAGE TREE SHALL BE DETERMINED BY THE FOLLOWING FORMULA: TREE DIAMETER (IN INCHES) X 2, CONVERTED INTO FEET = CRPZ DIAMETER.
- THE FOLLOWING RULES APPLY TO ALL CRITICAL ROOT PROTECTION ZONES (CRPZ), AS DEFINED ABOVE:
  - NO ENTRY, VEHICLE AND FOOT TRAFFIC PROHIBITED
  - NO GRADE CHANGES, STORAGE/STOCKPILING OF MATERIALS OR EQUIPMENT
  - NO TRENCHING
  - TREE PROTECTION FENCING SHALL REMAIN IN PLACE UNTIL NOTIFICATION FROM THE PUYALLUP PLANNING DEPARTMENT
- ROOT CUTS OUTSIDE OF CRPZ AREAS SHALL BE CUT CLEANLY AND IMMEDIATELY COVERED WITH WET BURLAP, WET WOOD CHIPS/HOG FUEL, WET COMPOST, OR APPROVED EQUAL TO PREVENT ROOT DESICCATION.



project\_ PUYALLUP CAMPUS PARKING EXPANSION FOR LOTS B AND C  
 client\_ PIERCE COLLEGE  
 location\_ PUYALLUP, WA  
 state project number\_ 2020-546 H (2-1)

Project No. 2012.000  
**TREE RETENTION PLAN AREA B**

issued\_ 15 FEB 23  
 BID SET

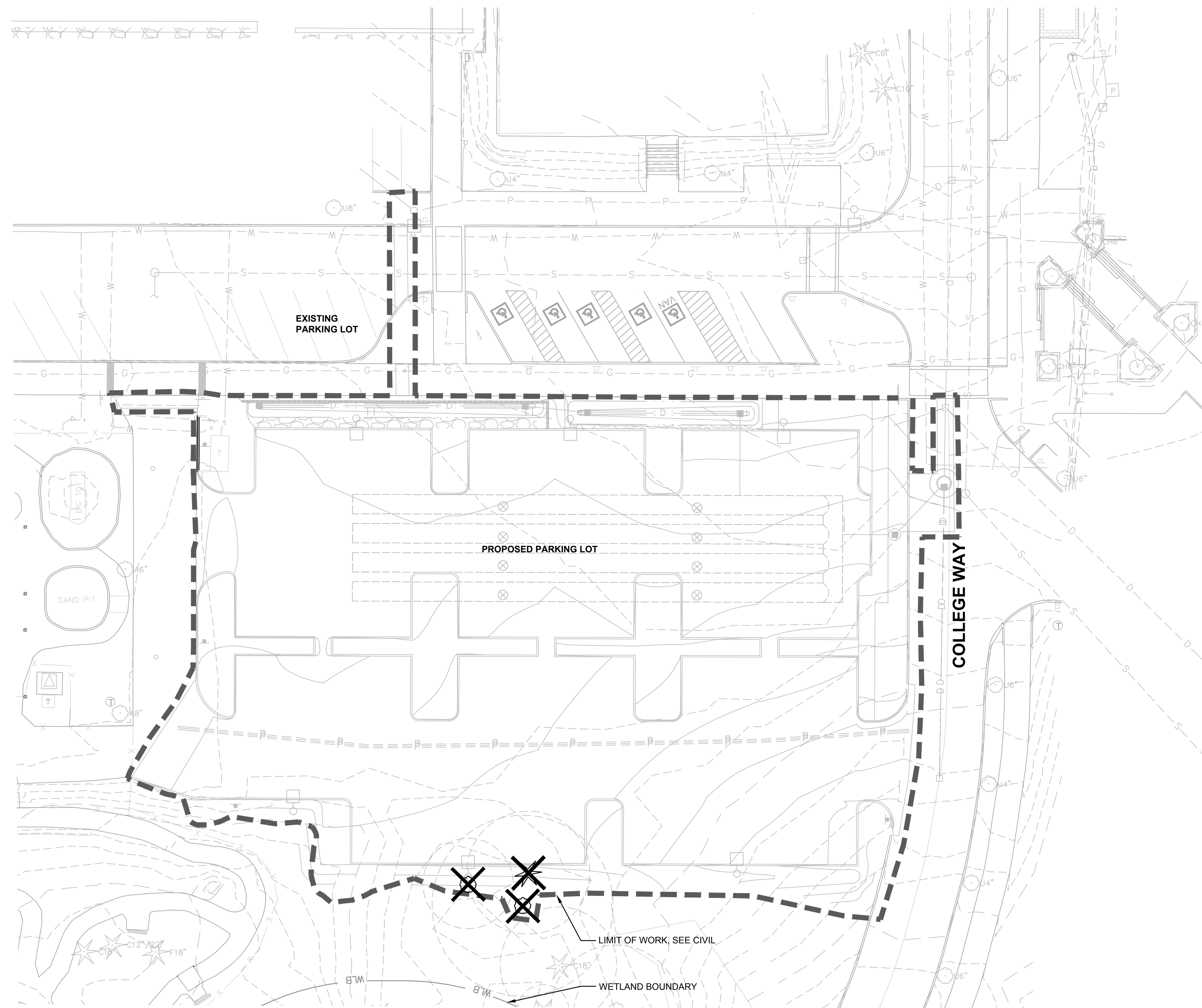
revision\_

drawn\_ S Johnson

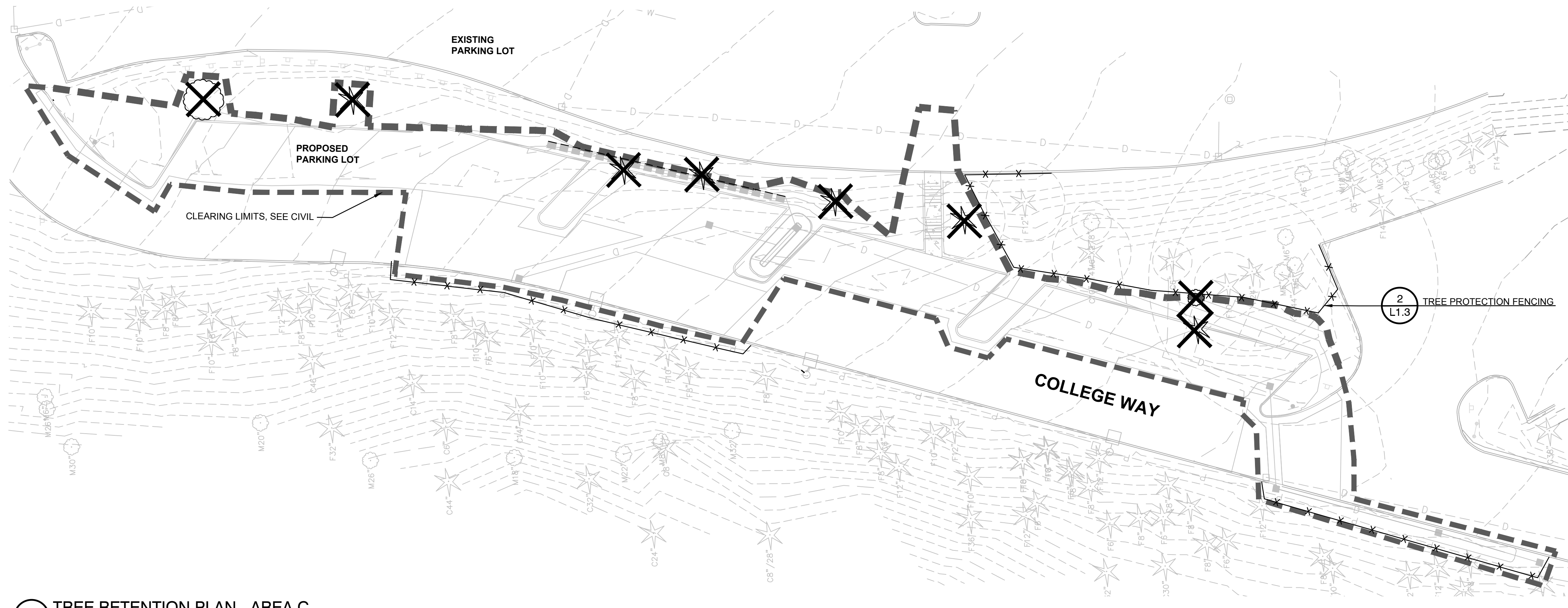
checked\_ S Singleton Schroedel

sheet\_

**L1.2**

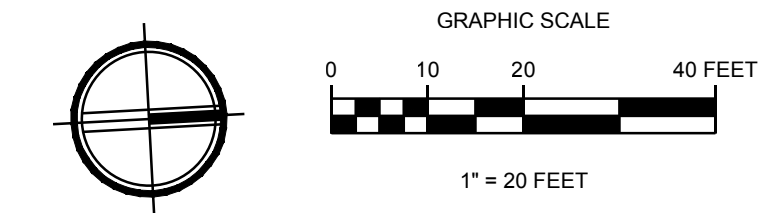






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  - TREE PROTECTION FENCE
  - CLEARING LIMITS, SEE CIVIL
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DIAMETER BREST HEIGHT (DBH)
  - CRITICAL ROOT ZONE (CRZ), TYP.

1 TREE RETENTION PLAN - AREA C



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 state project number\_ 2020-546 H (2-1)

Project No. 2012.000

**TREE RETENTION PLAN AREA C**

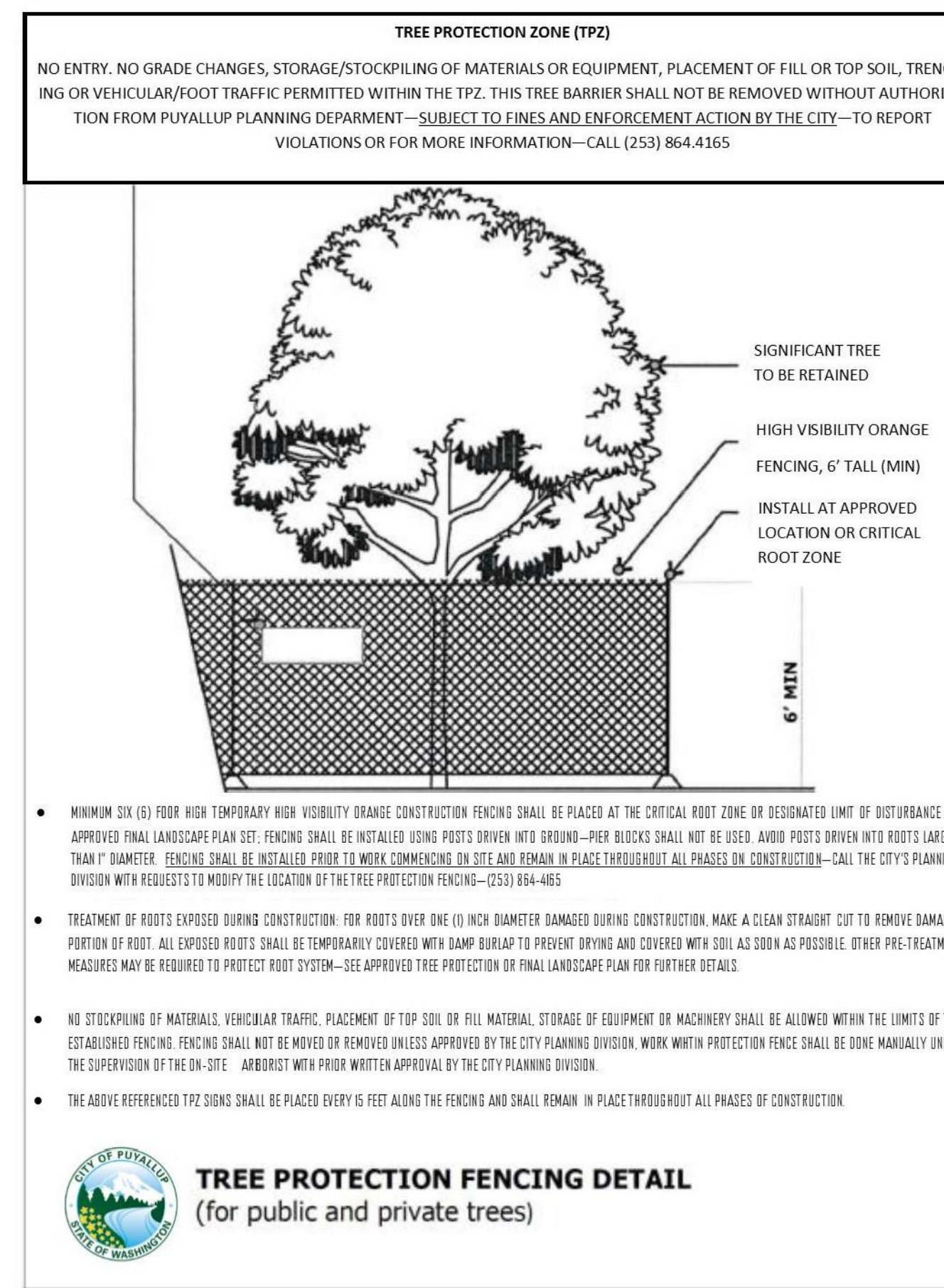
issued\_ 15 FEB 23  
 BID SET

revision\_

drawn\_ S Johnson

checked\_ S Singleton Schroedel

sheet\_ L1.3



2 TREE PROTECTION FENCING

NTS P-2-PCP-39

**City of Puyallup**  
 Development & Permitting Services  
**ISSUED PERMIT**

Building	Planning
Engineering	Public Works
Fire	Traffic

**CITY OF PUYALLUP**  
 Planning Division  
 Approved Landscape Plan  
 (253) 864-4165

Staff: Chris BEALE  
 Date: 04/26/2023

THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL DATE. THE CITY IS NOT RESPONSIBLE FOR ERRORS OR OMISSIONS ON THESE PLANS. FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE PLANNING DIRECTOR, DESIGNEE, OR PROJECT PLANNER.

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Call Before You Dig. 8-1-1 or 1-800-424-5555 Underground Service (USA)



LEGEND

EXISTING TREE TO REMAIN

REFERENCE NOTES SCHEDULE AREA B

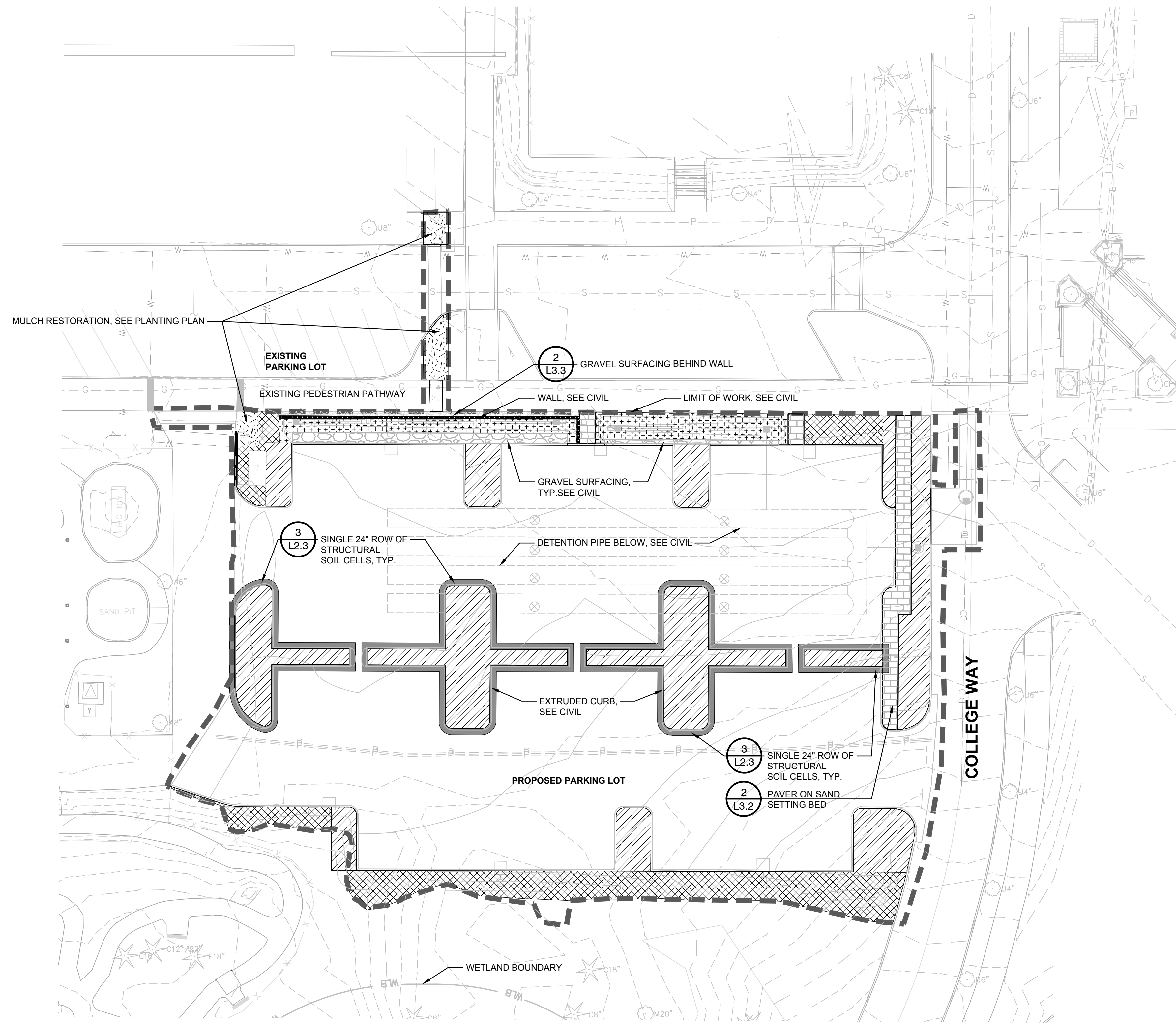
SYMBOL	DESCRIPTION
	18" TOPSOIL, SEE SPEC SECTION 329113.2.1.A
	8" TOPSOIL, SEE SPEC SECTION 329113.2.1.A AND DETAIL 1 THIS SHEET
	18" BIORETENTION SOILS, SEE SPEC SECTION 329113.2.1.A
	3" COMPOST AMENDMENT, SEE SPEC SECTION 329113.2.1.A

architect\_  
MCGRANAHAN ARCHITECTS

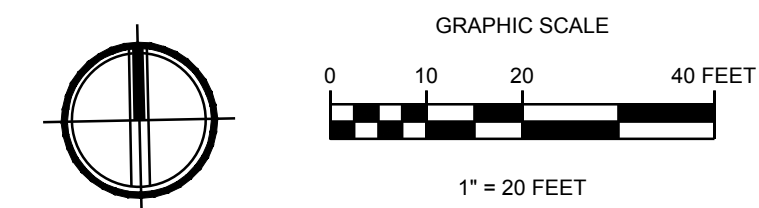
civil engineer\_  
AHBL

landscape design\_  
AHBL

electrical engineer\_  
HARGIS ENGINEERS



1 SOIL PREPARATION PLAN - AREA B



project\_  
PUYALLUP CAMPUS PARKING  
EXPANSION FOR LOTS B AND C

client\_  
PIERCE COLLEGE

location\_  
PUYALLUP, WA

state project number\_  
2020-546 H (2-1)

Project No. 2012.000

**SOIL  
PREPARATION  
PLAN  
AREA B**

issued\_  
BID SET 15 FEB 23

revision\_

drawn\_  
S Johnson

checked\_  
S Singleton Schroedel

sheet\_

L2.2

**City of Puyallup  
Development & Permitting Services  
ISSUED PERMIT**

Building	Planning
Engineering	Public Works
Fire	Traffic

CITY OF PUYALLUP  
Planning Division  
Approved Landscape Plan  
(253) 864-4165

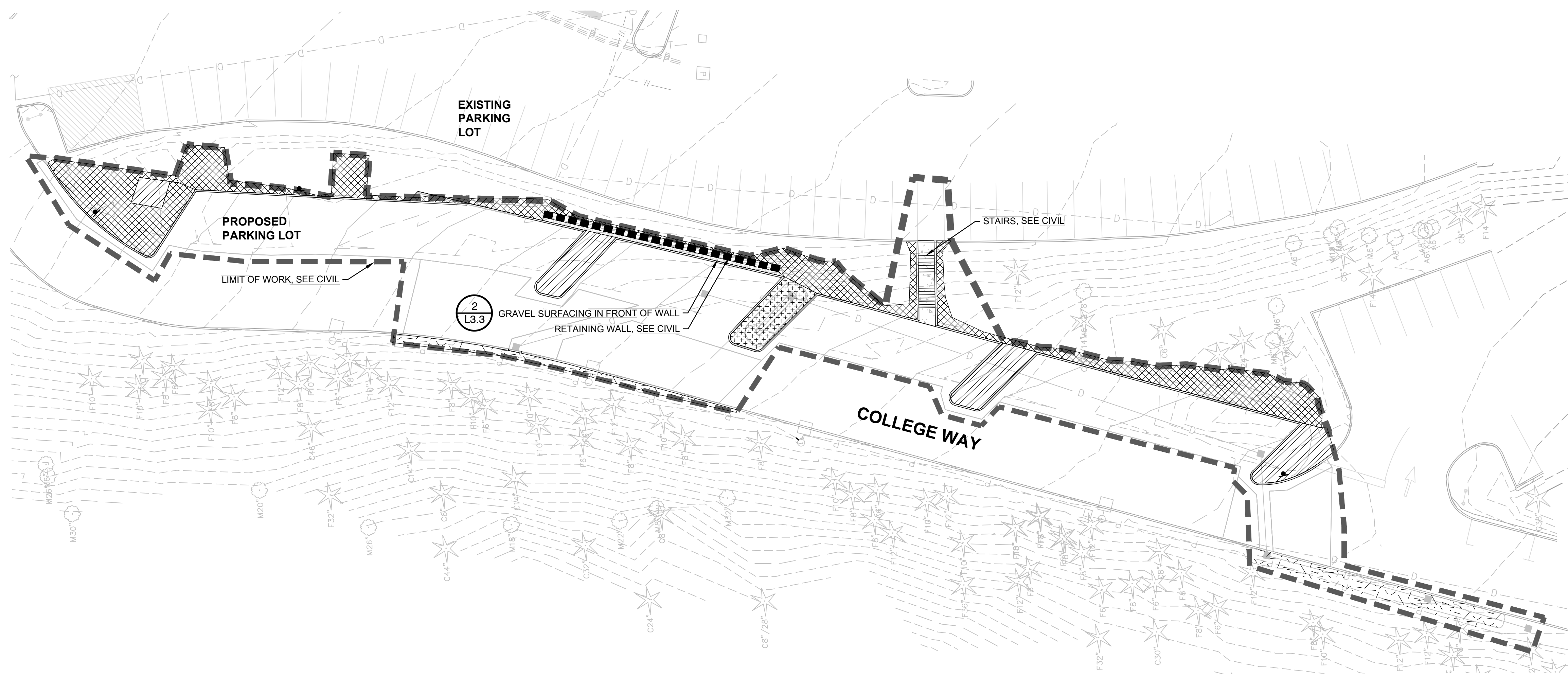
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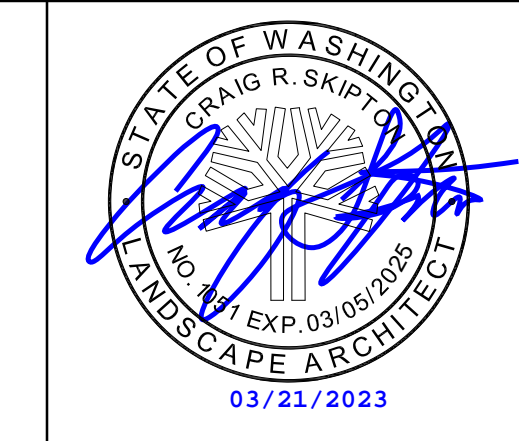
**LEGEND**

EXISTING TREE TO REMAIN

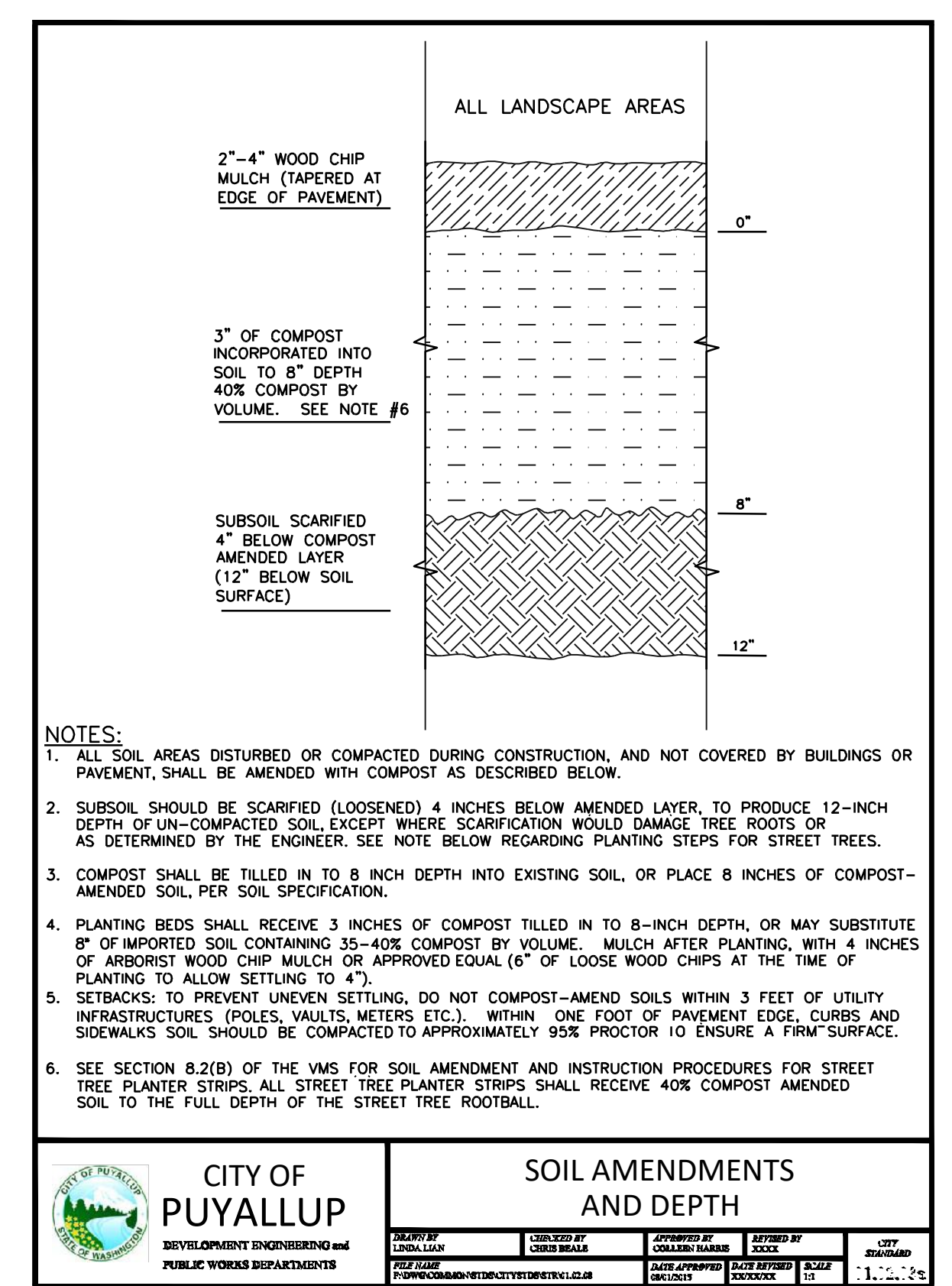
**REFERENCE NOTES SCHEDULE**

SYMBOL	DESCRIPTION
[Hatched Box]	18" TOPSOIL, SEE SPEC SECTION 329113.2.1.A
[Cross-hatched Box]	8" TOPSOIL, SEE SPEC SECTION 329113.2.1.A AND DETAIL 1 THIS SHEET
[Dotted Box]	18" BIORETENTION SOILS, SEE SPEC SECTION 329113.2.1.B.
[Stippled Box]	3" COMPOST AMENDMENT, SEE SPEC SECTION 329113.2.2.A.

architect  
MCGRANAHAN ARCHITECTS  
civil engineer  
AHBL  
landscape design  
AHBL  
electrical engineer  
HARGIS ENGINEERS

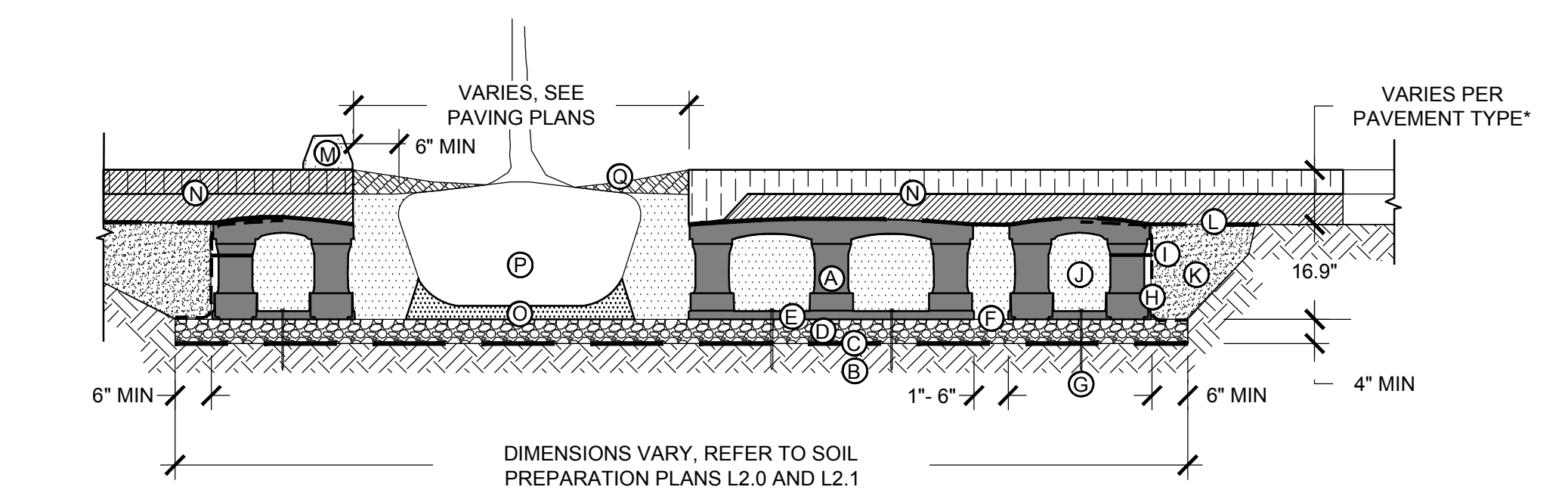


**1 SOIL PREPARATION PLAN - AREA C**



- NOTES:**
- ALL SOIL AREAS DISTURBED OR COMPACTED DURING CONSTRUCTION, AND NOT COVERED BY BUILDINGS OR PAVEMENT, SHALL BE AMENDED WITH COMPOST AS DESCRIBED BELOW.
  - SUBSOIL SHOULD BE SCARIFIED (LOOSEND) 4 INCHES 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. SEE NOTE REGARDING PLANTING STEPS FOR STREET TREES.
  - COMPOST SHALL BE TILLED IN TO 8 INCH DEPTH INTO EXISTING SOIL, OR PLACE 8 INCHES OF COMPOST-AMENDED SOIL PER SOIL SPECIFICATION.
  - PLANTING BEDS SHALL RECEIVE 3 INCHES OF COMPOST TILLED IN TO 8-INCH DEPTH, OR MAY SUBSTITUTE 6" OF IMPORTED SOIL CONTAINING 35-40% COMPOST BY VOLUME. MULCH AFTER PLANTING, WITH 4 INCHES OF ARBORIST WOOD CHIP MULCH OR APPROVED EQUIV. (6" OF LOOSE WOOD CHIPS AT THE TIME OF PLANTING TO ALLOW SETTLING TO 4").
  - SETBACKS: TO PREVENT UNWEN 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 95% PROCTOR TO ENSURE A FIRM SURFACE.
  - SEE SECTION 8.2(B) OF THE VMS FOR SOIL AMENDMENT AND INSTRUCTION PROCEDURES FOR STREET TREE PLANTER STRIPS. ALL STREET TREE PLANTER STRIPS SHALL RECEIVE 40% COMPOST AMENDED SOIL TO THE FULL DEPTH OF THE STREET TREE ROOTBALL.

CITY OF PUYALLUP DEVELOPMENT & PERMITTING SERVICES PUBLIC WORKS DEPARTMENT		SOIL AMENDMENTS AND DEPTH	
DESIGNED BY CRAIG R. SKIPTON	CHECKED BY CHRIS BEALE	APPROVED BY CRAIG R. SKIPTON	DATE 03/21/23
PROJECT NO. 2020-546 H (2-1)	DATE 03/21/23	SCALE AS SHOWN	SHEET NO. 1 OF 2



- KEY PLAN**
- (A) SOIL CELL SYSTEM (DECK, BASE, AND POSTS)
  - (B) SUBGRADE, COMPACTED
  - (C) GEOTEXTILE FABRIC, PLACED ABOVE SUBGRADE
  - (D) 4" MIN AGGREGATE SUB BASE, COMPACTED TO 95% PROCTOR
  - (E) SOIL CELL BASE SLOPE, 10% MAX
  - (F) 1" TO 6" SPACING BETWEEN SOIL CELLS AT BASE
  - (G) ANCHORING SPIKES, SEE SPECS
  - (H) GEOGRID, WRAPPED AROUND PERIMETER OF SYSTEM, WITH 6" TOE (OUTWARD FROM BASE) AND 12" EXCESS (OVER TOP OF DECK)
  - (I) CABLE TIE, ATTACHING GEOGRID TO SOIL CELL AT BASE OF UPPER LEG FLARE, AS NEEDED
  - (J) PLANTING SOIL, PER PROJECT SPECIFICATIONS, PLACED IN LIFTS AND WALK-IN COMPACTED TO 75-85% PROCTOR
  - (K) COMPACTED BACKFILL, PER PROJECT SPECIFICATIONS
  - (L) GEOTEXTILE FABRIC TO EDGE OF EXCAVATION
  - (M) CURB, SEE CIVIL
  - (N) PAVEMENT AND AGGREGATE BASE PER PROJECT
  - (O) PLANTING SOIL BELOW ROOT BALL, COMPACTED WELL TO PREVENT SETTLING
  - (P) ROOT BALL
  - (Q) TREE OPENING TREATMENT, PER PROJECT SPECIFICATIONS

**\*MINIMUM PAVEMENT PROFILE OPTIONS TO MEET H-20 LOADING**

PAVEMENT	+ AGGREGATE BASE COURSE
4" CONCRETE	+ 4" AGGREGATE
3" PAVER	+ 12" AGGREGATE
4" ASPHALT	+ 12" AGGREGATE
2.6" PAVER	+ 5" CONCRETE

- NOTES**
- EXCAVATION SHALL BE DONE IN ACCORDANCE WITH ALL APPLICABLE HEALTH AND SAFETY REGULATIONS
  - INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS
  - PROVIDE SUPPLEMENTAL IRRIGATION
  - DO NOT SCALE DRAWINGS

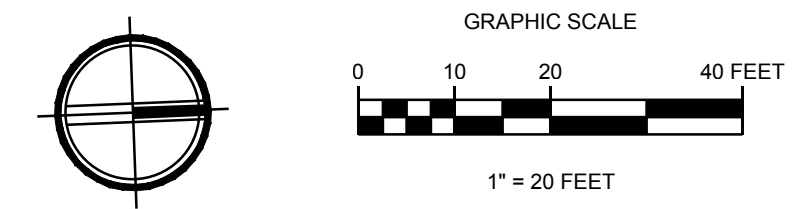
**2 SOIL AMENDMENTS AND DEPTH**

1" = 1'-0" P-2-PCP-02

**3 SOIL CELL SYSTEM 1X**

NTS P-2-PCP-34

Call Before You Dig. 8-1-1 or 1-800-424-5555 Underground Service (USA)  
ORIGINAL SHEET IS 24" x 36"  
copyright 2023  
all rights reserved  
DATE: March 15, 2023 FILENAME: \\ahbl.com\data\Projects\2020\220071840\_LAN\CAD\2200718.40 - SH - SOILS.dwg



project  
PUYALLUP CAMPUS PARKING  
EXPANSION FOR LOTS B AND C  
client  
PIERCE COLLEGE  
location  
PUYALLUP, WA  
state project number  
2020-546 H (2-1)

Project No. 2012.000

**SOIL PREPARATION PLAN AREA C**

issued  
BID SET 15 FEB 23

revision

**City of Puyallup  
Development & Permitting Services  
ISSUED PERMIT**

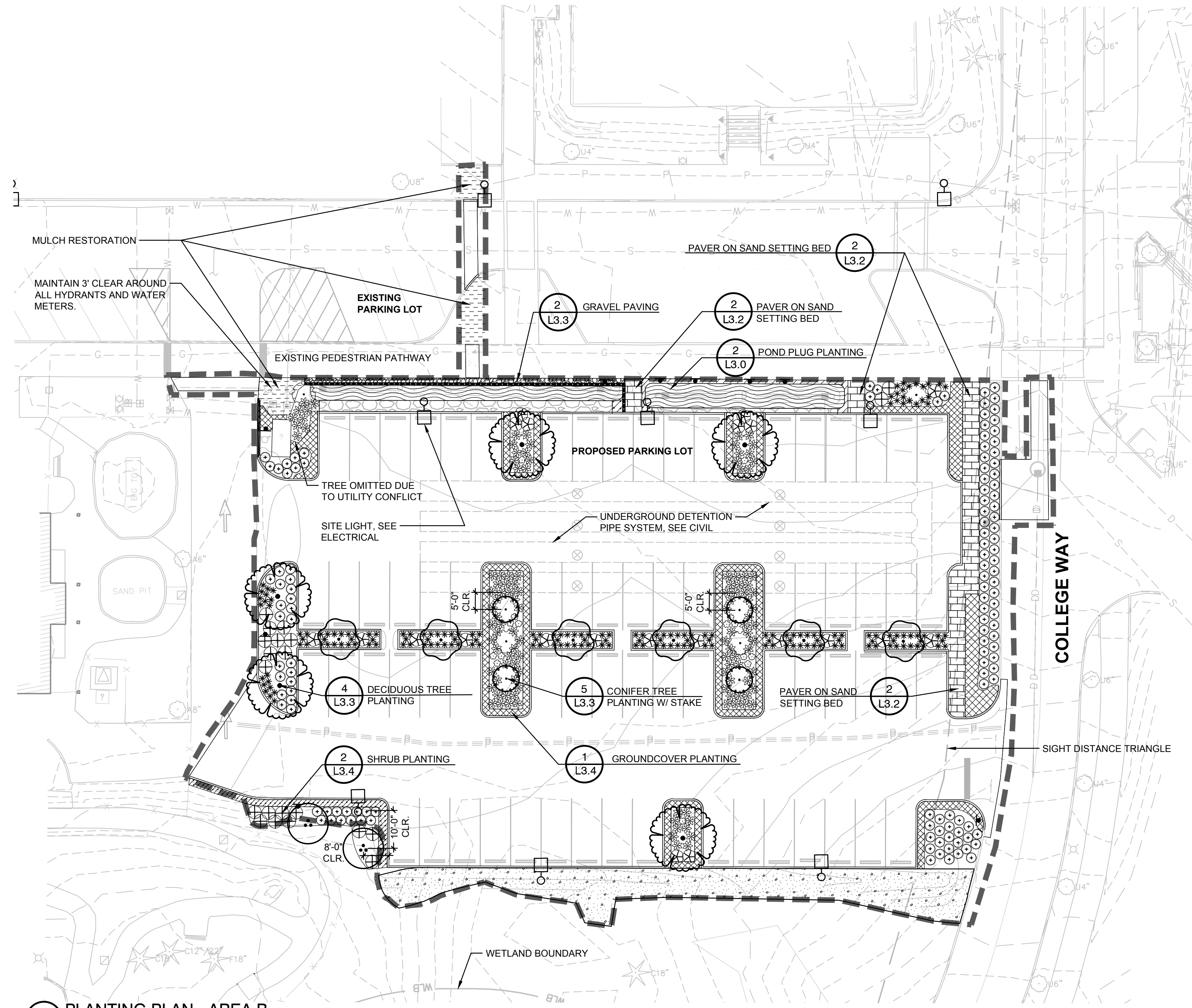
Building	Planning
Engineering	Public Works
Fire	Traffic

CITY OF PUYALLUP  
Planning Division  
Approved Landscape Plan  
(253) 864-4165  
Staff: Chris BEALE  
Date: 04/26/2023  
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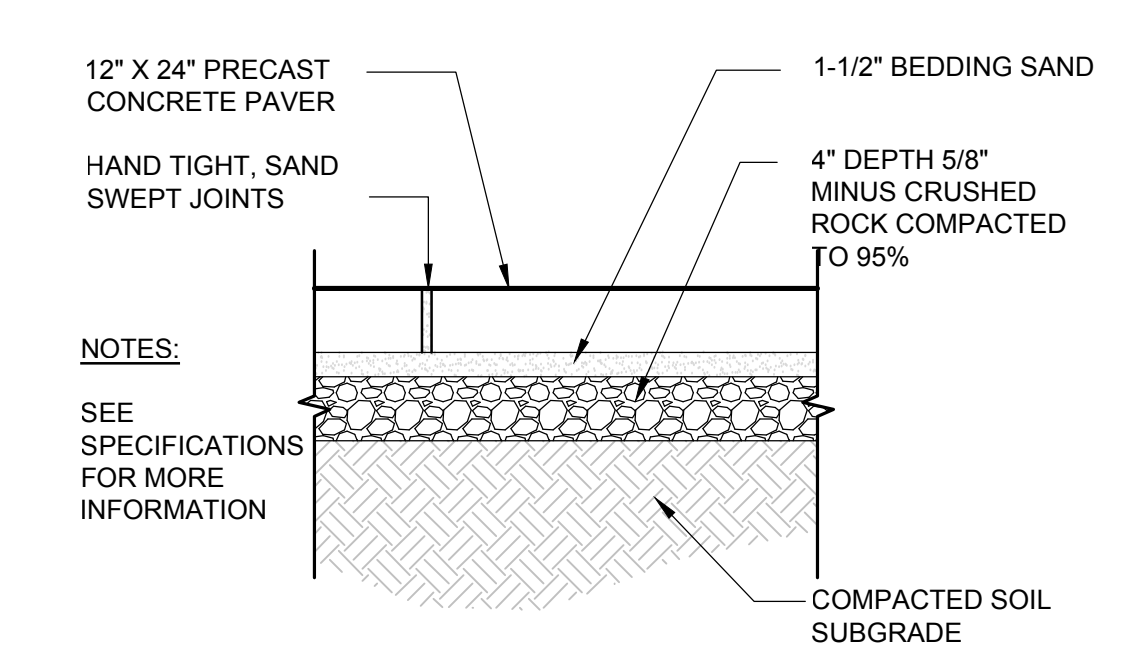
drawn  
S Johnson  
checked  
S Singleton Schroedel

sheet  
**L2.3**





1 PLANTING PLAN - AREA B



2 PAVER ON SAND SETTING BED  
1" = 1'-0" P-2-PCP-36

LEGEND

- EXISTING TREE TO REMAIN
- GRAVEL SURFACING, SEE CIVIL
- PAVER ON SAND SETTING (2 L3.2)

GENERAL LANDSCAPE NOTES

- SEE L3.3 SHEET FOR PLANTING SCHEDULE AND ADDITIONAL DETAILS.

architect\_ MCGRANAHAN ARCHITECTS  
 civil engineer\_ AHBL  
 landscape design\_ AHBL  
 electrical engineer\_ HARGIS ENGINEERS



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PLANTING PLAN AREA B

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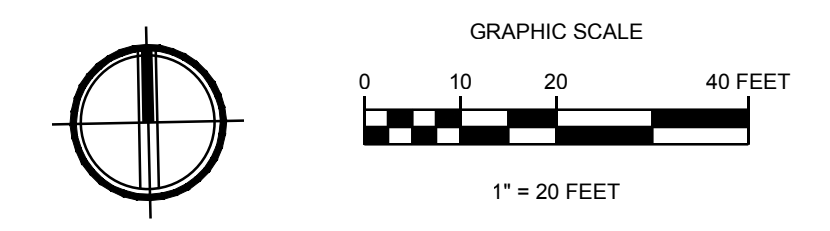
revision\_

drawn\_ S Johnson

checked\_ S Singleton Schroedel

sheet\_

L3.2



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 Development & Permitting Services  
**ISSUED PERMIT**

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Engineering	Public Works
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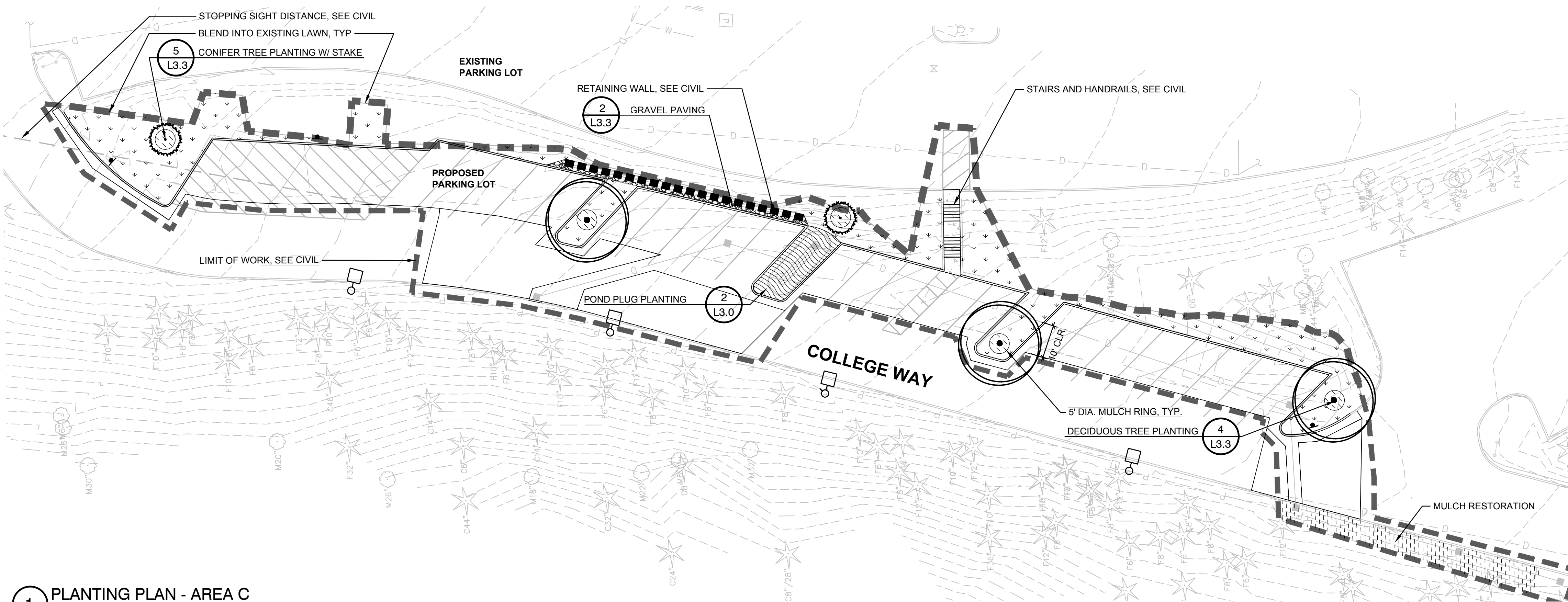


LEGEND

- EXISTING TREE TO REMAIN
- MULCH RING

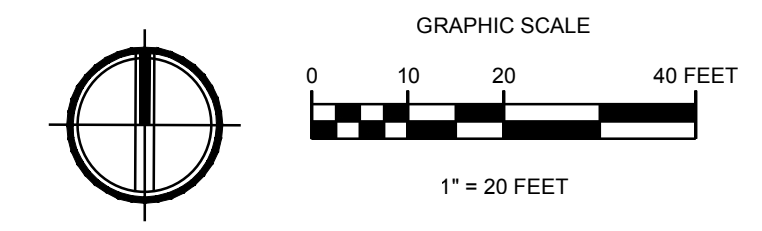
GENERAL LANDSCAPE NOTES

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**City of Puyallup**  
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1 PLANTING PLAN - AREA C

project\_  
PUYALLUP CAMPUS PARKING  
EXPANSION FOR LOTS B AND C

client\_  
PIERCE COLLEGE

location\_  
PUYALLUP, WA

state project number\_  
2020-546 H (2-1)

Project No. 2012.000

PLANTING PLAN AREA C AND DETAILS

issued\_  
BID SET 15 FEB 23

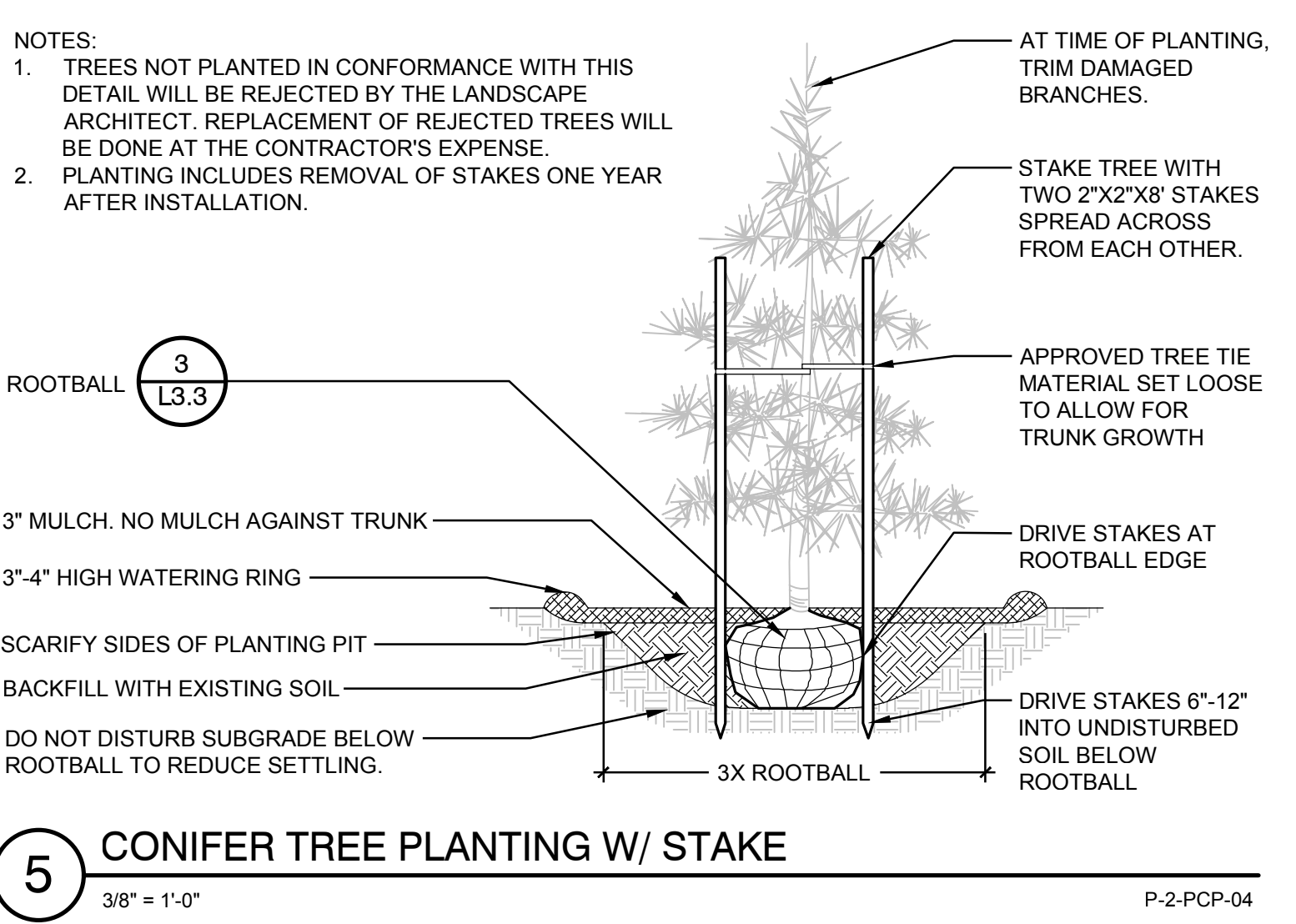
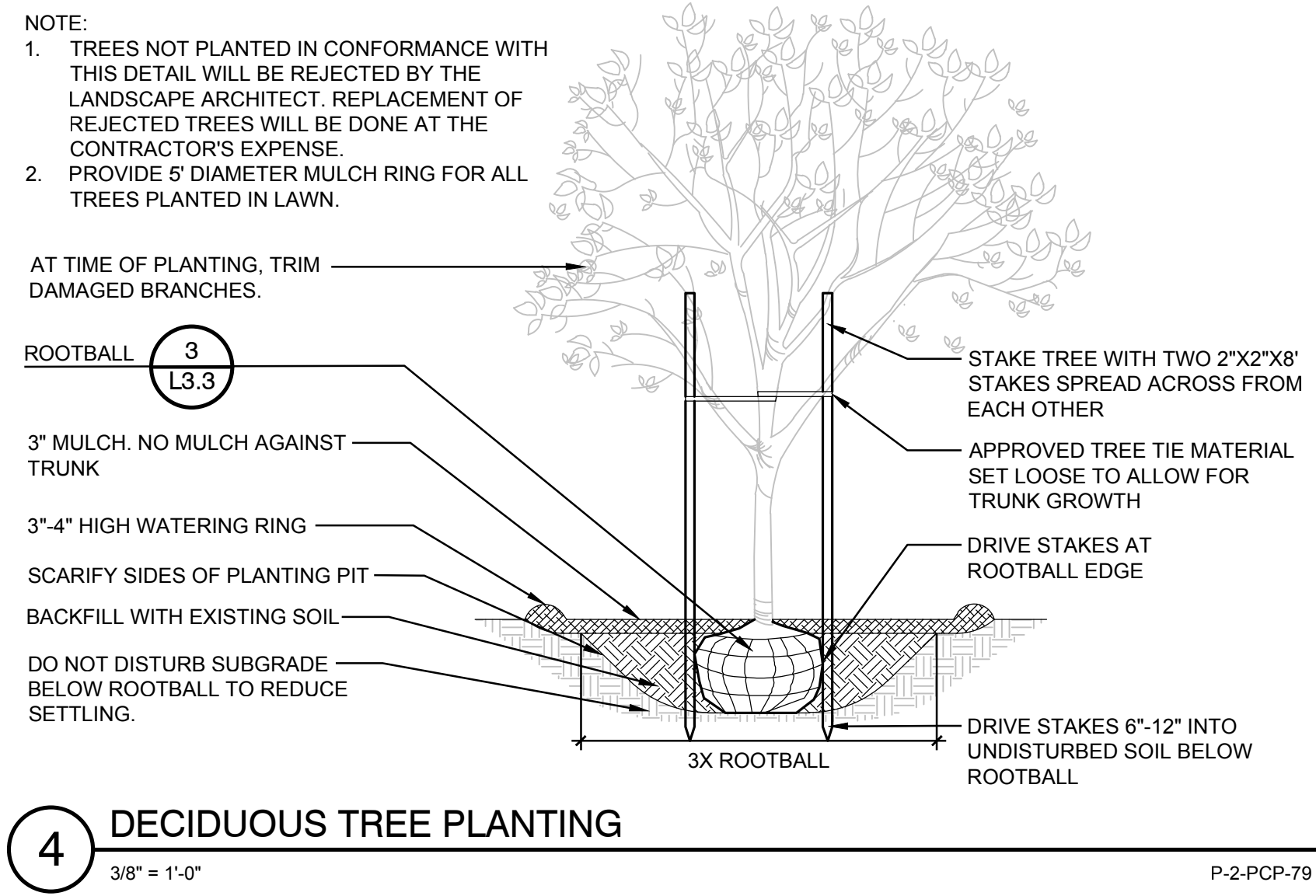
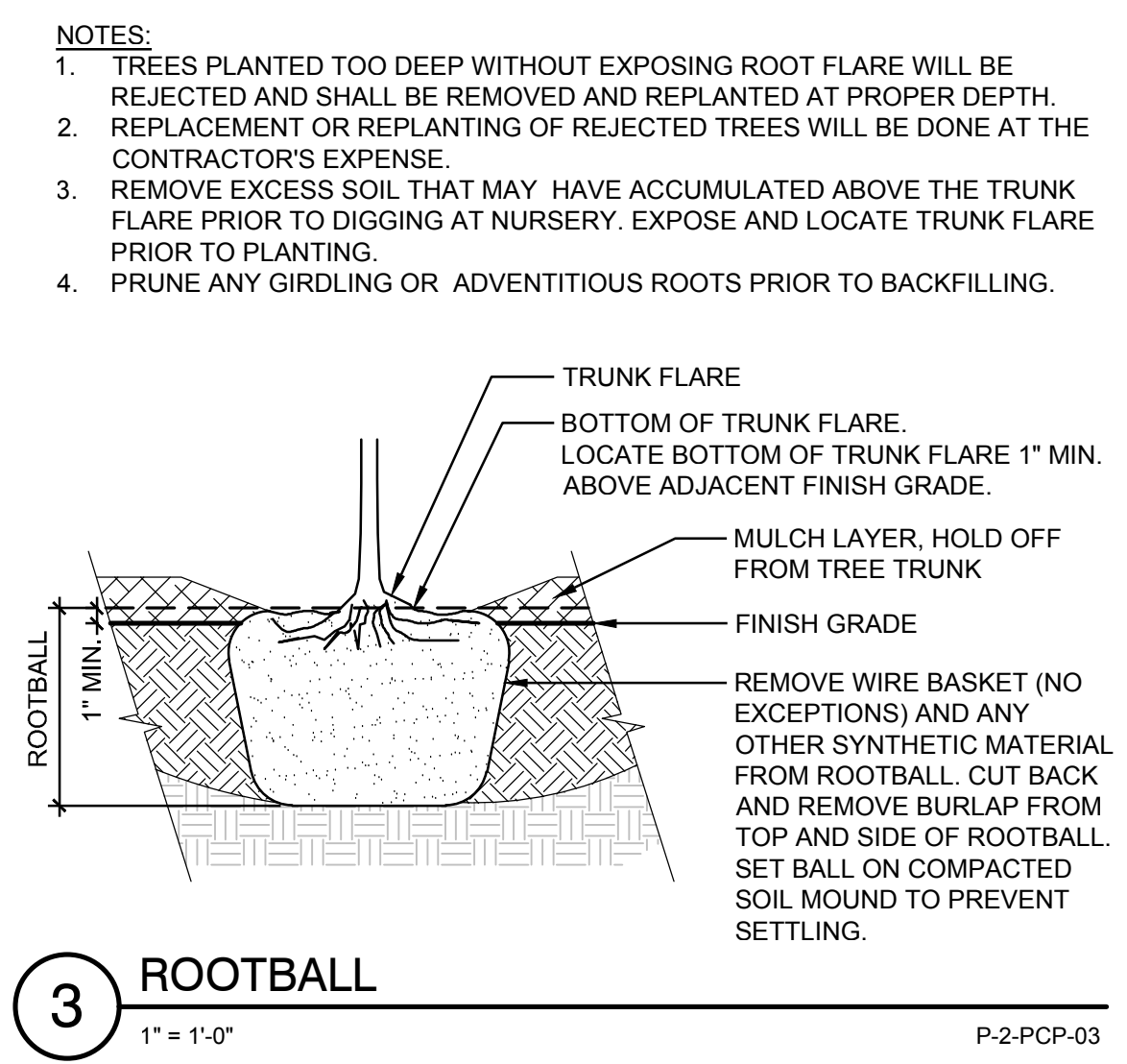
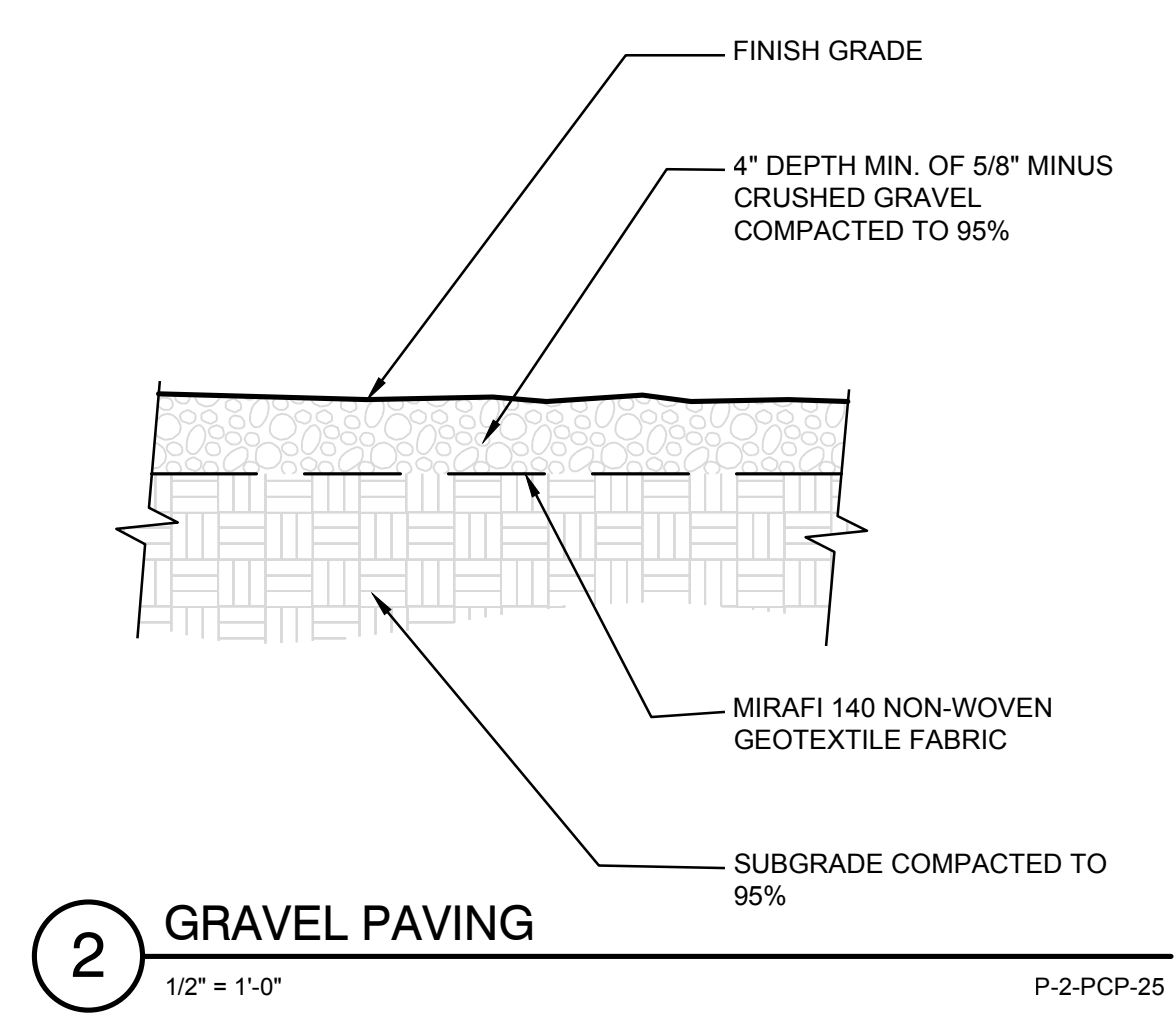
revision\_

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S Johnson

checked\_  
S Singleton Schroedel

sheet\_

L3.3



- NOTES:
- TREES PLANTED TOO DEEP WITHOUT EXPOSING ROOT FLARE WILL BE REJECTED AND SHALL BE REMOVED AND REPLANTED AT PROPER DEPTH. REPLACEMENT OR REPLANTING OF REJECTED TREES WILL BE DONE AT THE CONTRACTOR'S EXPENSE.
  - REMOVE EXCESS SOIL THAT MAY HAVE ACCUMULATED ABOVE THE TRUNK FLARE PRIOR TO DIGGING AT NURSERY. EXPOSE AND LOCATE TRUNK FLARE PRIOR TO PLANTING.
  - PRUNE ANY GIRDLING OR ADVENTITIOUS ROOTS PRIOR TO BACKFILLING.

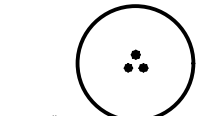










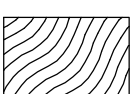

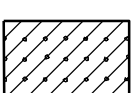
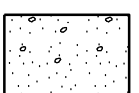
- NOTE:
- TREES NOT PLANTED IN CONFORMANCE WITH THIS DETAIL WILL BE REJECTED BY THE LANDSCAPE ARCHITECT. REPLACEMENT OF REJECTED TREES WILL BE DONE AT THE CONTRACTOR'S EXPENSE.
  - PROVIDE 5' DIAMETER MULCH RING FOR ALL TREES PLANTED IN LAWN.

- NOTES:
- TREES NOT PLANTED IN CONFORMANCE WITH THIS DETAIL WILL BE REJECTED BY THE LANDSCAPE ARCHITECT. REPLACEMENT OF REJECTED TREES WILL BE DONE AT THE CONTRACTOR'S EXPENSE.
  - PLANTING INCLUDES REMOVAL OF STAKES ONE YEAR AFTER INSTALLATION.

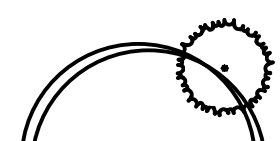


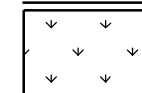
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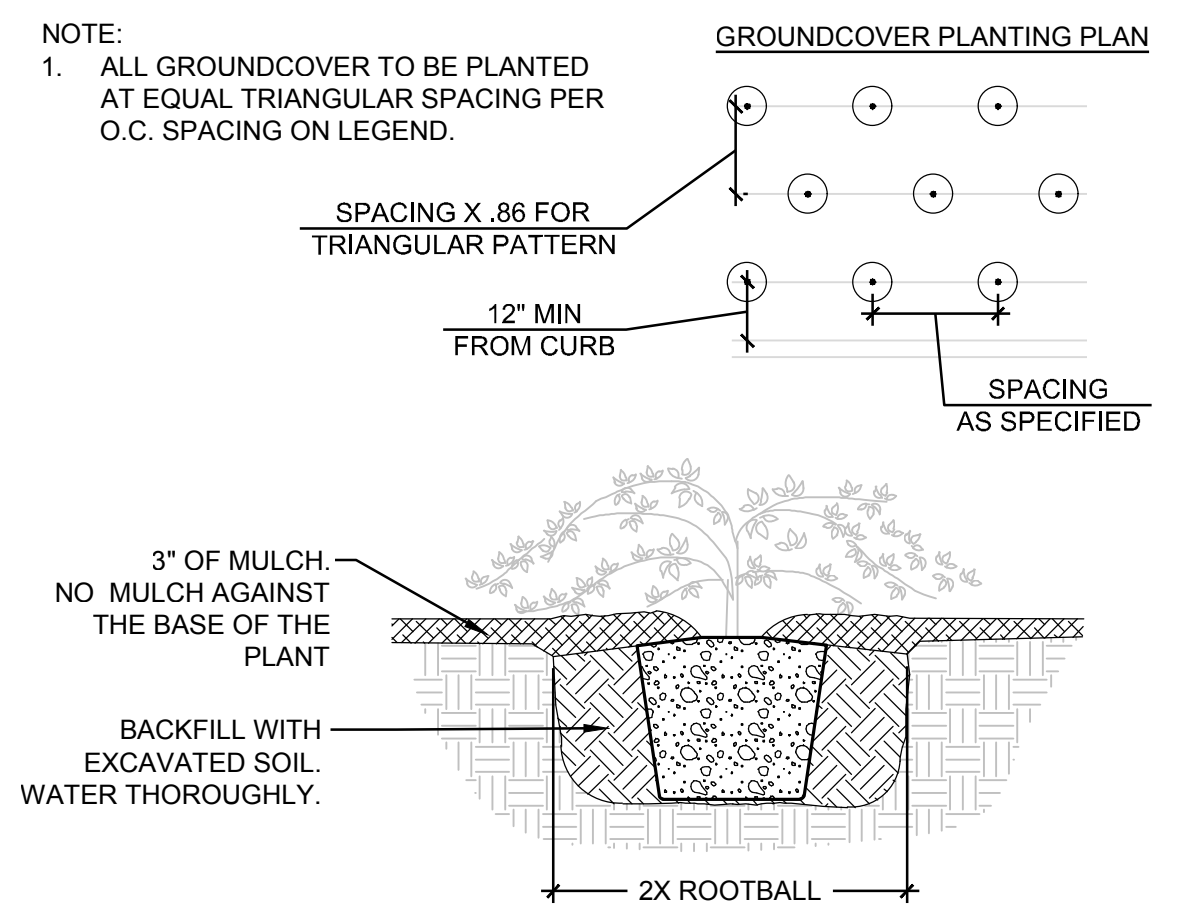


PLANT SCHEDULE AREA B

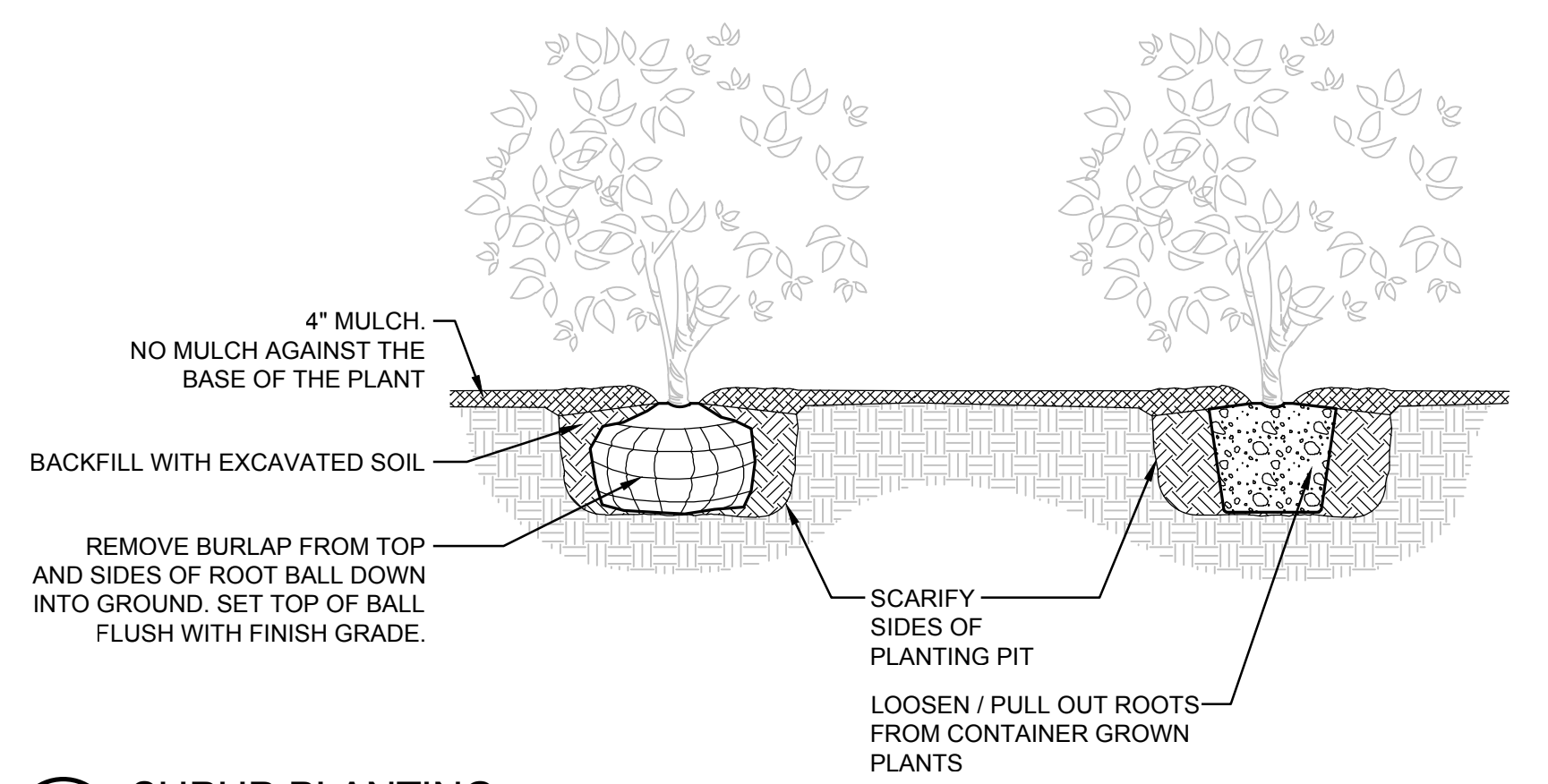
TREES	CODE	BOTANICAL NAME	COMMON NAME	PLANTING SIZE	QTY	
	AC	ACER CIRCINATUM	VINE MAPLE	6' HT, MULTI TRUNK	2	
	CG	CHAMAECYPARIS OBTUSA 'GRACILIS'	SLENDER HINOKI FALSE CYPRESS	6' HT MIN.	4	
	GA	GINKGO BILOBA 'AUTUMN GOLD' TM	AUTUMN GOLD MAIDENHAIR TREE	1.5" CAL	5	
	PV	PARROTIA PERSICA 'VANESSA'	VANESSA PERSIAN PARROTIA	1" CAL	6	
SHRUBS	CODE	BOTANICAL NAME	COMMON NAME	SIZE	QTY	
	CI	CAREX MORROWII 'ICE DANCE'	ICE DANCE JAPANESE SEDGE	1 GAL	183	
	CK	CORNUS SERICEA 'KELSEY'	KELSEY'S DWARF RED TWIG DOGWOOD	2 GAL	128	
	CP3	CORYLOPSIS PAUCIFLORA	WINTER HAZEL	5 GAL	4	
	EU	ECHINACEA PURPUREA 'VINTAGE WINE'	VINTAGE WINE CONEFLOWER	1 GAL	15	
	PK	PENNISETUM ORIENTALE 'KARLEY ROSE'	KARLEY ROSE FOUNTAIN GRASS	1 GAL	121	
	RM	RHODODENDRON X 'P.J.M. COMPACT'	PJM COMPACT RHODODENDRON	3 GAL	21	
	VD	VIBURNUM DAVIDII	DAVID VIBURNUM	3 GAL	21	
SHRUB AREAS	CODE	BOTANICAL NAME	COMMON NAME	INSTALL SIZE	SPACING	QTY
	CB	BIORETENTION MIX CORE	BOWLES GOLDEN SEDGE	PLUG	30% @ 36" o.c.	837 SF
	IO	CAREX ELATA 'BOWLES GOLDEN'	OREGON IRIS	1 GAL	5% @ 12" o.c.	29
	JE	PLANT IN GROUPS OF 5-7	SOFT RUSH	PLUG	30% @ 36" o.c.	29
	JE2	JUNCUS EFFUSUS	SWORDLEAF RUSH	PLUG	35% @ 36" o.c.	34
		JUNCUS ENSIFOLIUS				
GROUND COVERS	CODE	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	QTY
	AU	ARCTOSTAPHYLOS UVA-URSI	KINNIKINICK	1 GAL	36" o.c.	149
	FS	FRAGARIA X 'LIPSTICK'	LIPSTICK ORNAMENTAL STRAWBERRY	4" POT	36" o.c.	81
	TS	RESTORATION SEED MIX B	RESTORATION SEED MIX B	HYDROSEED		1,739 SF
		NATIVE E/C MIX BY SUNMARK SEEDS OR APPROVED EQUAL				

PLANT SCHEDULE AREA C

TREES	CODE	BOTANICAL NAME	COMMON NAME	PLANTING SIZE	QTY	
	PO	PICEA OMORIKA	SERBIAN SPRUCE	6' HT	2	
	UO	ULMUS AMERICANA 'LEWIS & CLARK'	PRAIRIE EXPEDITION® AMERICAN ELM	1.5" CAL	3	
SHRUB AREAS	CODE	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	QTY
	CB	BIORETENTION MIX CORE	BOWLES GOLDEN SEDGE	PLUG	30% @ 36" o.c.	270 SF
	IO	CAREX ELATA 'BOWLES GOLDEN'	OREGON IRIS	1 GAL	5% @ 12" o.c.	15
	JE	PLANT IN GROUPS OF 5-7	SOFT RUSH	PLUG	30% @ 36" o.c.	10
	JE2	JUNCUS EFFUSUS	SWORDLEAF RUSH	PLUG	35% @ 36" o.c.	11
		JUNCUS ENSIFOLIUS				
GROUND COVERS	CODE	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	QTY
	LH	LAWN MIX HYDROSEED	HYDROSEED LAWN MIX	HYDROSEED		3,582 SF



1 GROUNDCOVER PLANTING  
1/2" = 1'-0" P-2-PCP-66



2 SHRUB PLANTING  
NTS P-2-PCP-82

architect\_  
MCGRANAHAN ARCHITECTS  
civil engineer\_  
AHBL  
landscape design\_  
AHBL  
electrical engineer\_  
HARGIS ENGINEERS



project\_  
PUYALLUP CAMPUS PARKING  
EXPANSION FOR LOTS B AND C  
client\_  
PIERCE COLLEGE  
location\_  
PUYALLUP, WA  
state project number\_  
2020-546 H (2-1)

Project No. 2012.000  
**PLANT SCHEDULE AND DETAILS**  
issued\_  
BID SET 15 FEB 23

revision\_  
drawn\_  
S Johnson  
checked\_  
S Singleton Schroedel  
sheet\_  
**L3.4**

**CITY OF PUYALLUP**  
Planning Division  
Approved Landscape Plan  
(253) 864-4165

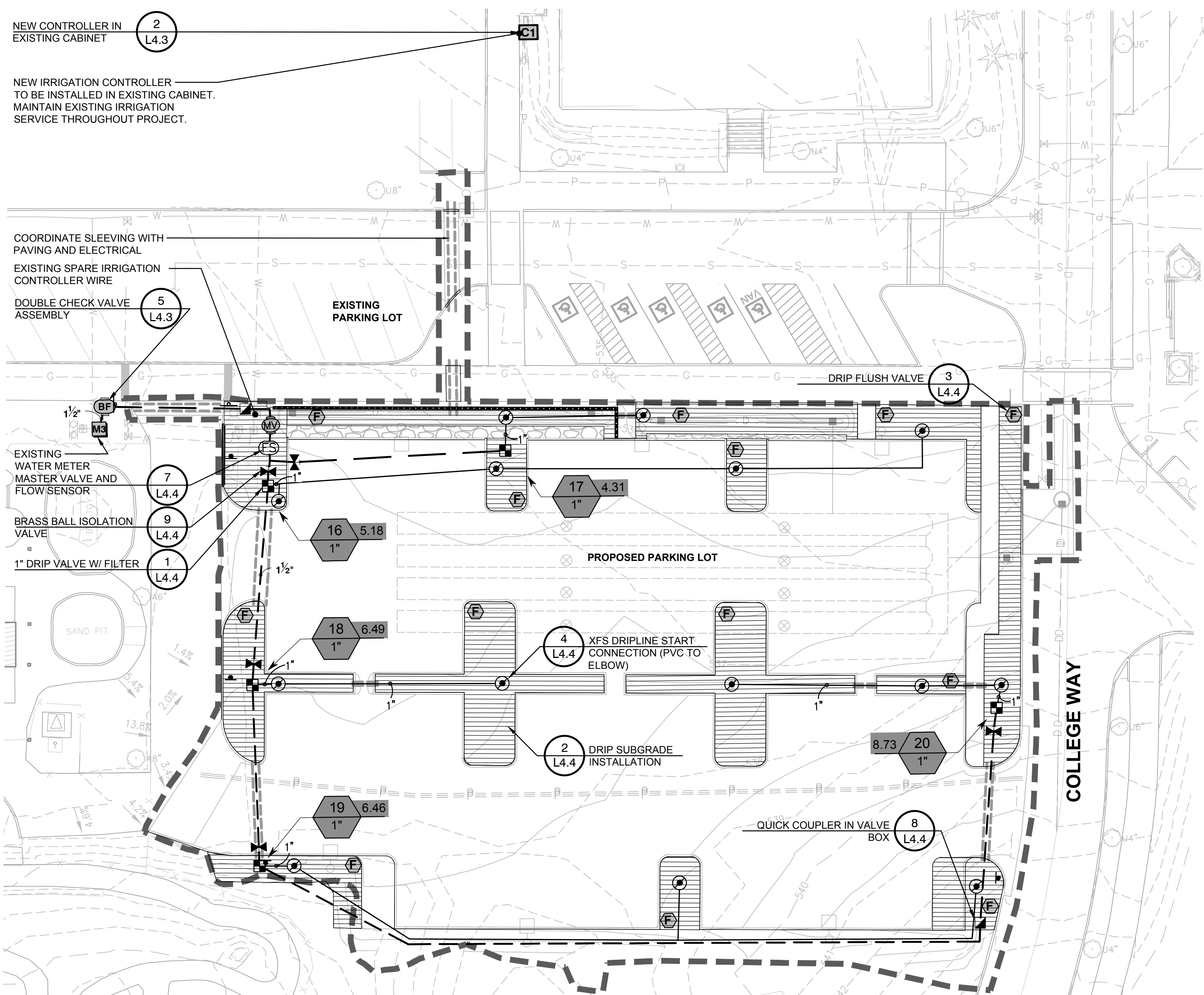
Staff: Chris BEALE  
Date: 04/26/2023

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NOTE: If street trees are required, Call Planning Division for final inspection: (253) 864-4165 (Option 3) Root barriers are required around street trees in accordance with city standard detail. Top soil shall be installed in accordance with city standards. Field verification required. Failure to install top soil and root barriers in accordance with the city standards may result in rejection of installation.

Building	Planning
Engineering	Public Works
Fire	Traffic





### IRRIGATION SCHEDULE AREA B

SYMBOL	MANUFACTURER/MODEL
	RAIN BIRD XCZ-100-PRB-LC
	DRIP IRRIGATION PVC HEADER
	DRIP FLUSH VALVE
	AREA TO RECEIVE DRIPLINE RAIN BIRD XFS-06-18
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	RAIN BIRD 5-LRC 1" BRASS QUICK-COUPLING VALVE, WITH CORROSION-RESISTANT STAINLESS STEEL SPRING, LOCKING THERMOPLASTIC RUBBER COVER, AND 1-PIECE BODY.
	ISOLATION VALVE
	RAIN BIRD 5-LRC 1" BRASS QUICK-COUPLING VALVE, WITH CORROSION-RESISTANT STAINLESS STEEL SPRING, LOCKING THERMOPLASTIC RUBBER COVER, AND 1-PIECE BODY. WITH SELF-FLUSHING FILTER SCREEN. GLOBE CONFIGURATION. RECLAIMED WATER COMPATIBLE. AND PURPLE HANDLE COVER DESIGNATES NON-POTABLE WATER USE. WITH PRESSURE REGULATOR.
	DOUBLE CHECK VALVE ASSEMBLY 1-1/2" DOUBLE CHECK BACKFLOW PREVENTION
	RAIN BIRD ESP8LXME WITH (02) ESPLXMSM12 32 STATION COMMERCIAL CONTROLLER. WALL MOUNTED IN A STEEL CABINET.
	RAIN BIRD FS-150-B 1-1/2" FLOW SENSOR. BRASS MODEL. SUGGESTED OPERATING RANGE 4.0 GPM TO 80.0 GPM. SIZE FOR FLOW NOT ACCORDING TO PIPE SIZE. RAIN BIRD COMPATIBLE CONTROLLERS: ESP-LXIVM(P)   LXI   LXME2(P)   ME3. OR CONTROLLERS ACCEPTING CUSTOM K-FACTOR AND OFFSET. INSTALL IN RAIN BIRD VALVE BOX.
	WATER METER 1" EXISTING IRRIGATION METER
	IRRIGATION LATERAL LINE: PVC SCHEDULE 40
	IRRIGATION MAINLINE: PVC SCHEDULE 40
	PIPE SLEEVE: PVC SCHEDULE 40

### LEGEND

EXISTING TREE TO REMAIN

### NOTES

- THE POINT OF CONNECTION LOCATION SHOWN ON THIS PLAN IS APPROXIMATE. CONTRACTOR SHALL COORDINATE LOCATION WITH OWNER IN THE FIELD PRIOR TO INSTALLATION.
- IRRIGATION LINES AND VALVES MAY BE SHOWN IN HARD SURFACE AREAS OR OUTSIDE LANDSCAPE AREAS FOR GRAPHIC CLARITY. LOCATE ALL IRRIGATION LINES IN LANDSCAPE AREAS OR IN SLEEVES UNDER PAVEMENT.
- IRRIGATION CONTRACTOR SHALL COORDINATE INSTALLATION OF IRRIGATION CONDUIT AND SLEEVES UNDER HARD SURFACES WITH RESPECTIVE CONTRACTORS.
- SPLICE CONTROL WIRES WITHIN VALVE BOXES ONLY. USING 3M-DBY, OR APPROVED SPLICE KITS, AND PROVIDE A 24" EXPANSION LOOP FOR ALL CONTROL WIRES WITHIN EACH VALVE BOX. KEEP WIRE SPLICES TO A MINIMUM. PROVIDE CLEAN WIRE CUTS WITH NEW SPLICE KITS AT ALL SPLICES INCLUDING ANY SPLICE THAT IS DISCONNECTED AND RECONNECTED FOR ANY REASON OR PERIOD OF TIME.
- REPAIR LANDSCAPING AND EXISTING IRRIGATION AT LIGHT AND CONTROLLER LOCATIONS.
- SEE CONTROLLER AND DRIP IRRIGATION NOTES ON SHEET L4.3
- SEE SHEET L3.3 FOR PLANTING SCHEDULE.

### VALVE SCHEDULE AREA B

NUMBER	MODEL	SIZE	TYPE	GPM	WIRE	PSI	PSI @ POC	PRECIP
16	RAIN BIRD XCZ-100-PRB-LC	1"	AREA FOR DRIPLINE	5.18	33.5	0.43	in/h	
17	RAIN BIRD XCZ-100-PRB-LC	1"	AREA FOR DRIPLINE	4.31	32.9	41.0	0.43 in/h	
18	RAIN BIRD XCZ-100-PRB-LC	1"	AREA FOR DRIPLINE	6.49	34.9	43.2	0.43 in/h	
19	RAIN BIRD XCZ-100-PRB-LC	1"	AREA FOR DRIPLINE	6.46	34.7	43.1	0.43 in/h	
20	RAIN BIRD XCZ-100-PRB-LC	1"	AREA FOR DRIPLINE	8.73	37.2		0.43 in/h	

**City of Puyallup**  
Development & Permitting Services  
**ISSUED PERMIT**

Building	Planning
Engineering	Public Works
Fire	Traffic

**CITY OF PUYALLUP**  
Planning Division  
Approved Landscape Plan  
(253) 864-4165

Staff: Chris BEALE  
Date: 04/26/2023

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project  
PUYALLUP CAMPUS PARKING  
EXPANSION FOR LOTS B AND C

client  
PIERCE COLLEGE

location  
PUYALLUP, WA

state project number  
2020-546 H (2-1)

Project No. 2012.000

## IRRIGATION PLAN AREA B AND DETAILS

issued  
BID SET 15 FEB 23

revision

drawn  
S Johnson

checked  
S Singleton Schroedel

sheet

# L4.2

### 1 IRRIGATION PLAN

### CONTROLLER NOTES

- CONTROLLER-INSTALL NEW TWO-WIRE BASELINE CONTROLLER IN EXISTING CABINET. CONFIRM LOCATIONS WITH OWNER PRIOR TO INSTALLATION.
  - PROVIDE 120V FROM ELECTRICAL SERVICE PER LOCAL UTILITY REQUIREMENTS AND APPLICABLE CODES. SEE ELECTRICAL PLAN FOR MORE INFORMATION.
  - PROVIDE COMMUNICATION CONNECTION FROM CONTROLLER TO FLOW METER AND MASTER VALVE.
  - COORDINATE COMMUNICATION CONNECTION TO BUILDING ETHERNET/WIFI WITH LOW VOLTAGE CONTRACTOR(S).
  - INSTALL CONTROLLER IN PEDESTAL PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE GROUNDING PER MANUFACTURER'S REQUIREMENTS.
  - PROGRAM CONTROLLER WITH TEMPORARY ESTABLISHMENT AND PERMANENT WATERING SCHEDULE. COORDINATE WITH OWNER FOR CONNECTION TO CENTRAL CONTROL SERVER AND PROGRAMMING.
- CONTROL WIRE SHALL BE INSTALLED IN 2" SCH. 40 ELECTRICAL CONDUIT AT HARDSCAPE CROSSINGS.
- INSTALL SPARE CONTROL WIRE (ORANGE COLOR) FROM CONTROLLER TO FARTHEST VALVE.

### CRITICAL ANALYSIS

P.O.C. NUMBER: 02  
Water Source Information: EXISTING IRRIGATION METE

FLOW AVAILABLE  
Water Meter Size: 1"  
Flow Available: 37.5 GPM

PRESSURE AVAILABLE  
Static Pressure at POC: 60 PSI  
Elevation Change: 5.00 ft  
Service Line Size: 3"  
Length of Service Line: 20 ft  
Pressure Available: 58 PSI

DESIGN ANALYSIS  
Maximum Station Flow: 6.49 GPM  
Flow Available at POC: 37.5 GPM  
Residual Flow Available: 31.01 GPM

Critical Station: 16  
Design Pressure: 30 PSI  
Friction Loss: 0.69 PSI  
Fittings Loss: 0.07 PSI  
Elevation Loss: 0 PSI  
Loss through Valve: 4.4 PSI  
Pressure Req. at Critical Station: 35.2 PSI  
Loss for Fittings: 0.01 PSI  
Loss for Main Line: 0.1 PSI  
Loss for POC to Valve Elevation: 0 PSI  
Loss for Backflow: 5 PSI  
Loss for Master Valve: 2.3 PSI  
Loss for Water Meter: 0.34 PSI  
Critical Station Pressure at POC: 42.9 PSI  
Pressure Available: 59 PSI  
Residual Pressure Available: 15.1 PSI

### POINT OF CONNECTION 02 NOTES

- CONTRACTOR SHALL VERIFY EXISTING STATIC PRESSURE IS 60 AT THE METER AND SUBMIT WRITTEN VERIFICATION TO THE LANDSCAPE ARCHITECT. NOTIFY THE LANDSCAPE ARCHITECT OF DISCREPANCIES GREATER THAN 5 POUNDS OF DESIGN PRIOR TO INSTALLATION OF ANY IRRIGATION EQUIPMENT.
- POC NUMBER 02: EXISTING 1" IRRIGATION METER.
  - THE SYSTEM DESIGN IS BASED ON OPERATING 1 ZONE AT A TIME USING AN EXISTING IRRIGATION METER. CONTRACTOR SHALL FIELD VERIFY SIZE AND LOCATION.
- IRRIGATION CONTRACTOR SHALL TIE INTO METER AND RUN PIPE TO BACKFLOW PREVENTER.
- NOTIFY THE OWNER IMMEDIATELY IF THE POINT OF CONNECTION ASSUMPTIONS MADE HERE DO NOT MATCH FIELD CONDITIONS.

### DRIP IRRIGATION NOTES

- SEE APPLICABLE GENERAL IRRIGATION NOTES.
- DO NOT EXCEED MAXIMUM VERTICAL DISTANCE BETWEEN PRESSURE CONTROL VALVES RECOMMENDED BY MANUFACTURER.
- DRIP LINE HATCH DIRECTION AND SPACING ON PLANS IS DIAGRAMMATIC. PLACE PER DETAILS, LEGEND, AND MANUFACTURER'S RECOMMENDATIONS.
- IRRIGATION CONTRACTOR SHALL INSTALL PROVISIONS FOR WINTERIZATION BY PROVIDING BOTH MANUAL DRAINS AT ALL LOW POINTS (AUTOMATIC DRAIN VALVES ARE NOT PERMITTED) AND A MEANS TO BLOW OUT IRRIGATIONS SYSTEM PIPES WITH PRESSURIZED AIR. SLOPE PIPE AT 1/2" MIN. TO DRAINS. PRESSURIZED AIR NOT TO EXCEED 20 PSI ON DRIP IRRIGATION LINES.
- INSTALL AIR RELIEF VALVES PER MANUFACTURER'S RECOMMENDATIONS, IN CONTROL VALVE BOXES.
- INSTALL DRIP LINES ACCORDING TO MANUFACTURER'S INSTRUCTIONS. NO DRIP TUBING SHALL BE LEFT EXPOSED.

### IRRIGATION SYSTEM DESIGN NOTES

- WATER PURVEYOR: CITY OF PUYALLUP.
- CONTACT INFORMATION: 253-841-5505
- THIS DESIGN ADDS A NEW IRRIGATION SYSTEM FOR THE AREAS AFFECTED BY CONSTRUCTION OF NEW PARKING LOTS.
- CONTRACTOR SHALL FIELD VERIFY ALL EXISTING IRRIGATION EQUIPMENT AND ZONES IMPACTED BY THE CONSTRUCTION OF THIS PROJECT PRIOR TO CONSTRUCTION. PROVIDE SHOP DRAWINGS INDICATING ZONE FLOW AND HEAD LOCATION OF AFFECTED ZONES AND HOW THE CONTRACTOR INTENDS TO ADJUST THE EXISTING SYSTEM TO ACCOMMODATE NEW ZONES.
- PROVIDE TEMPORARY IRRIGATION TO ALL UNDISTURBED ZONES DURING CONSTRUCTION.

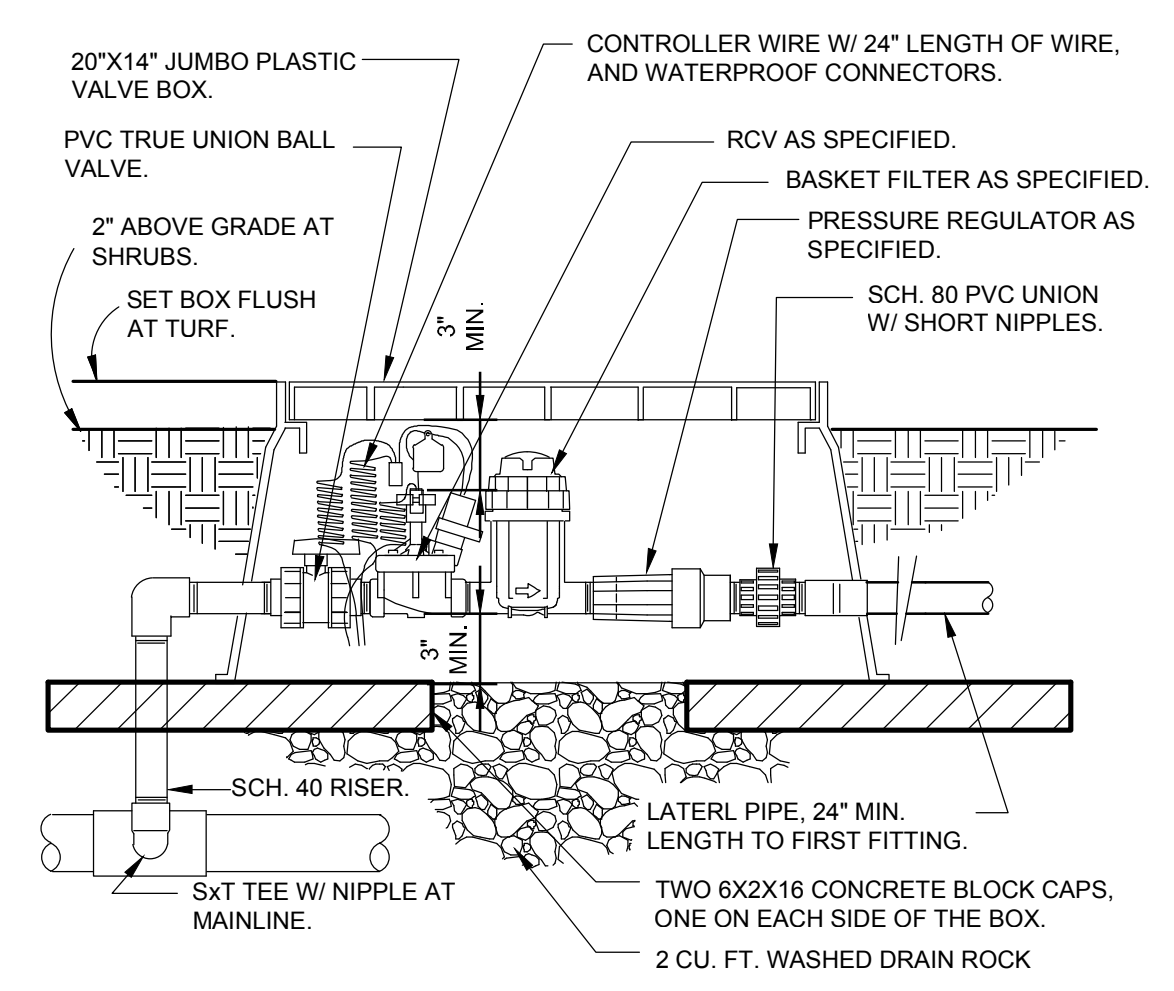
Call Before You Dig. 8-1-1 or 1-800-424-5555 Underground Service (USA)



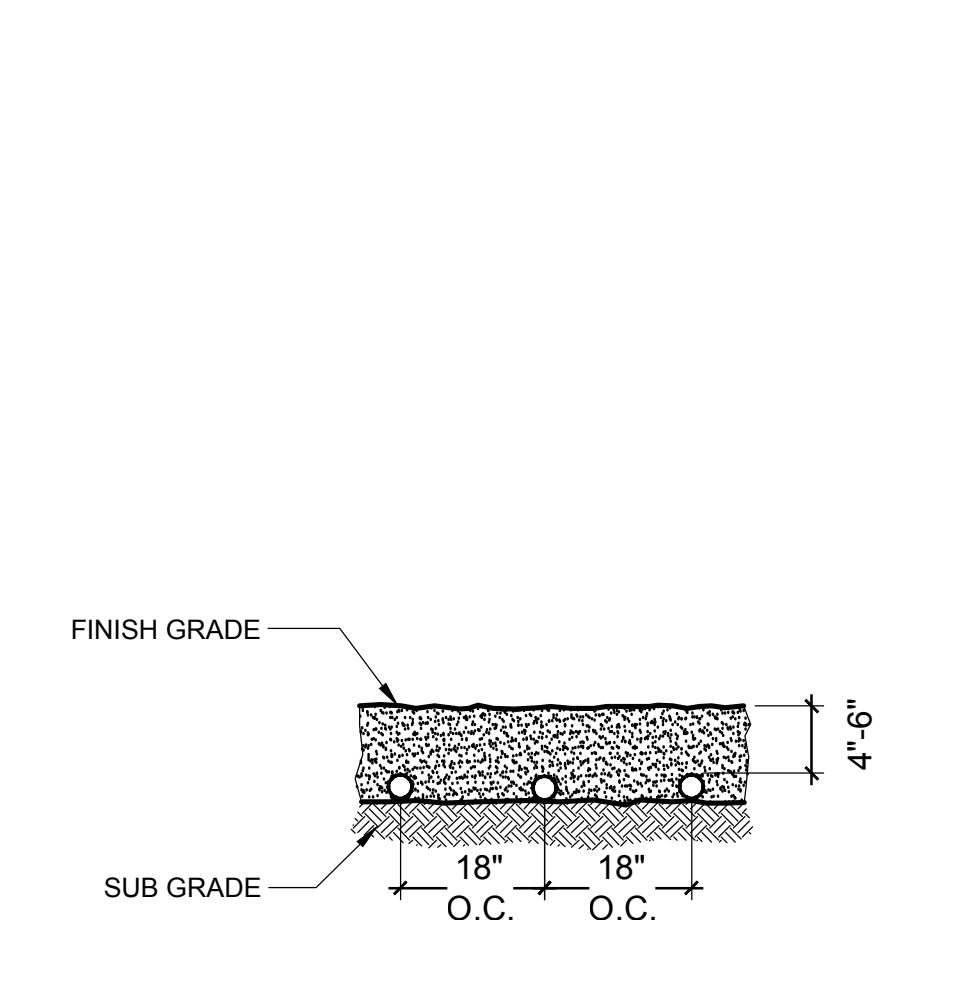




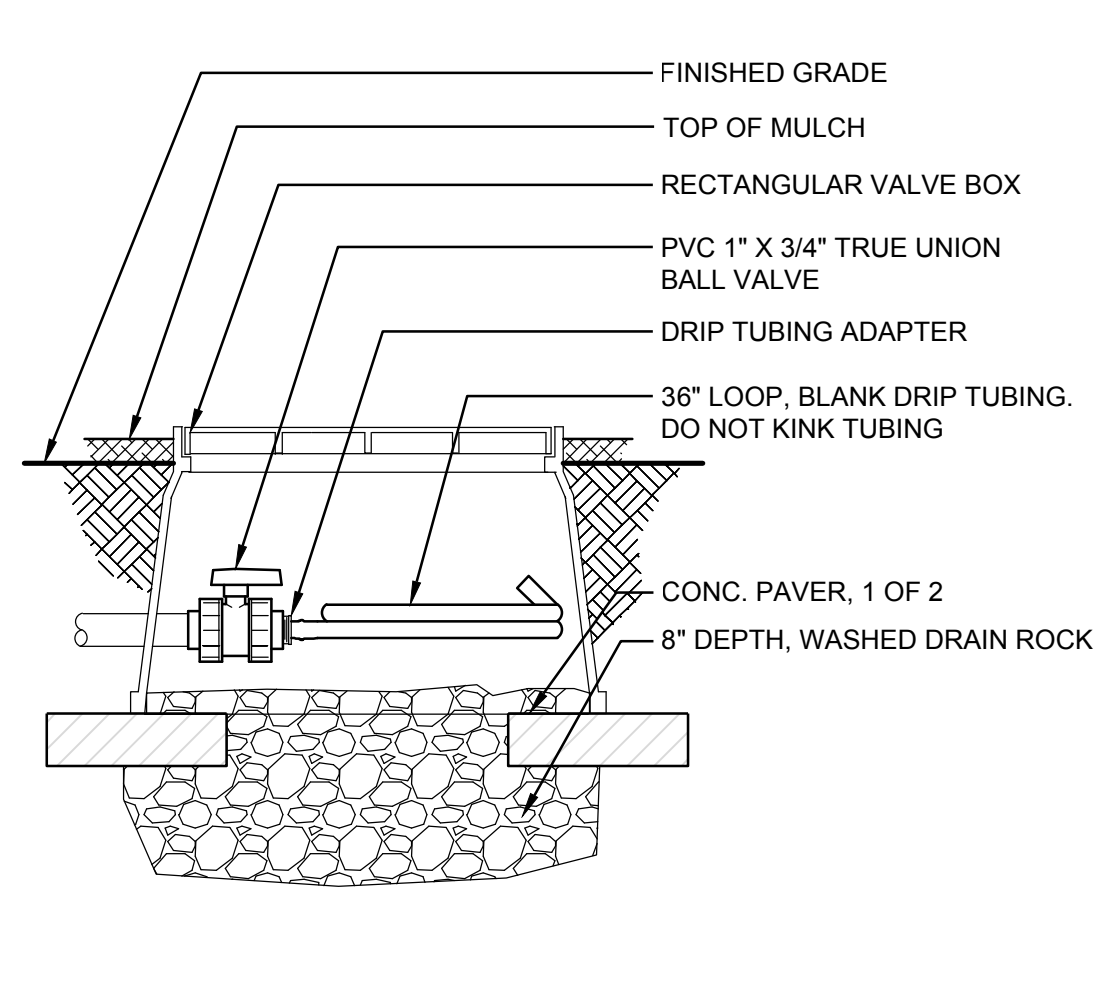
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civil engineer\_ AHBL  
landscape design\_ AHBL  
electrical engineer\_ HARGIS ENGINEERS



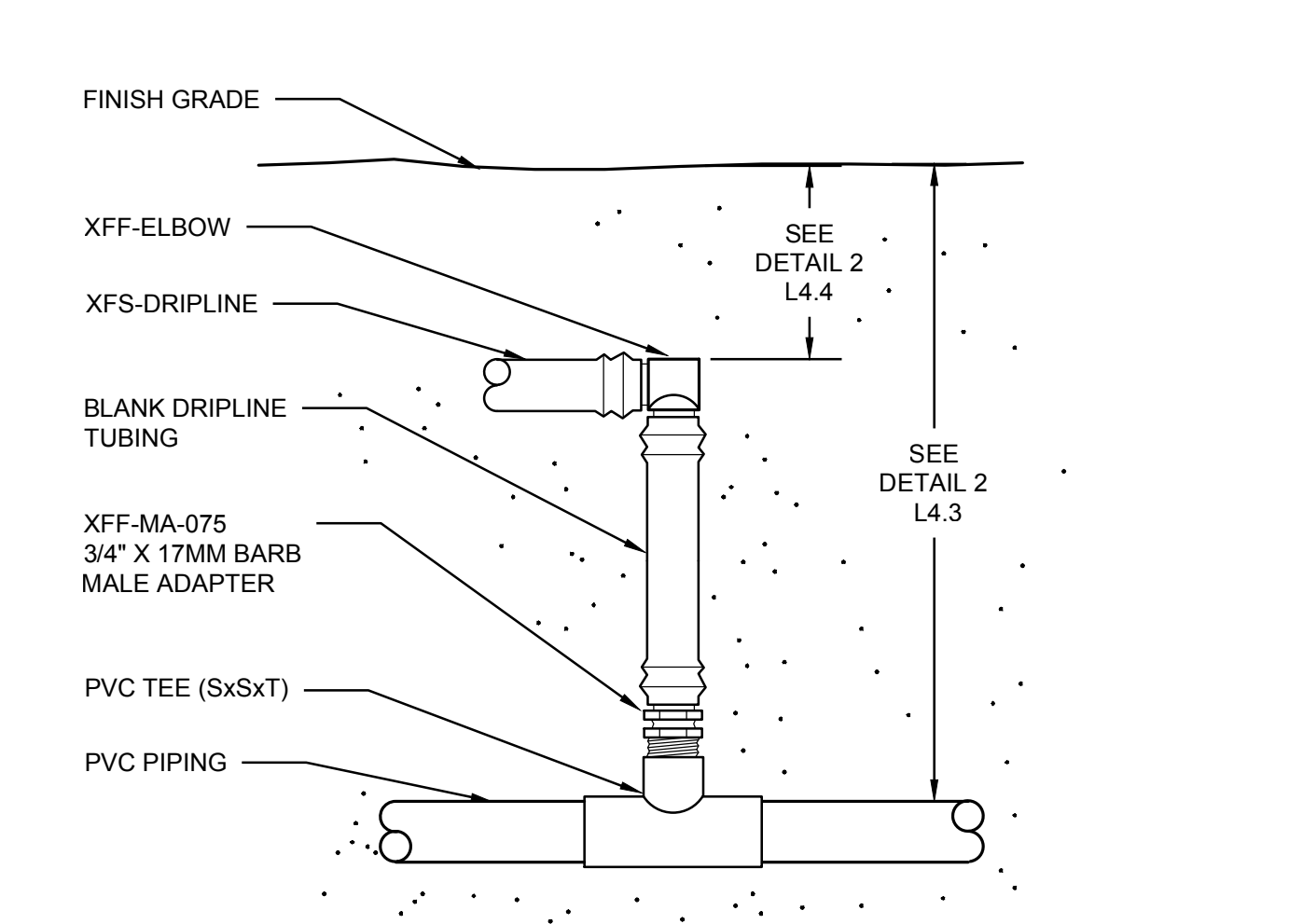
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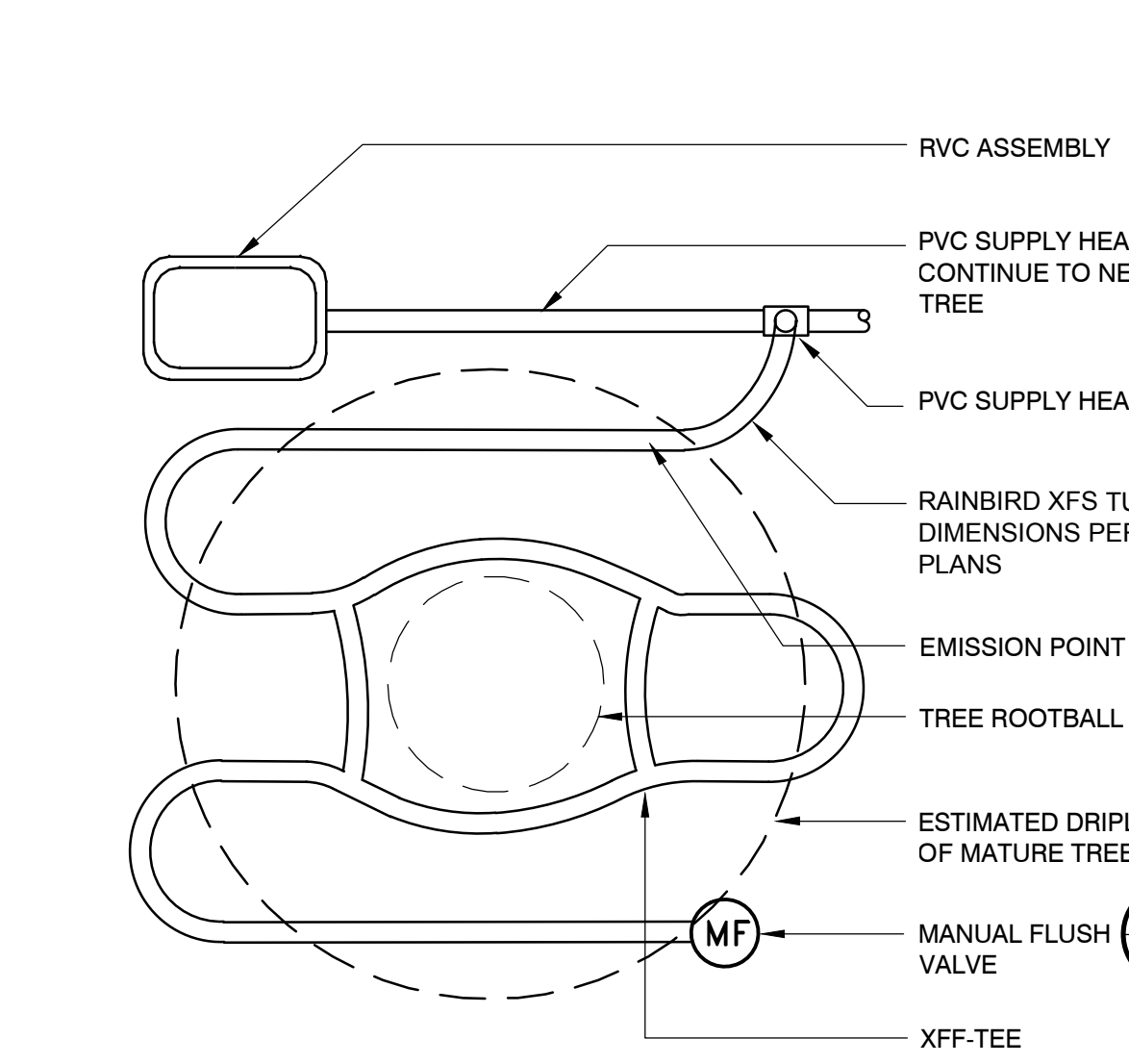
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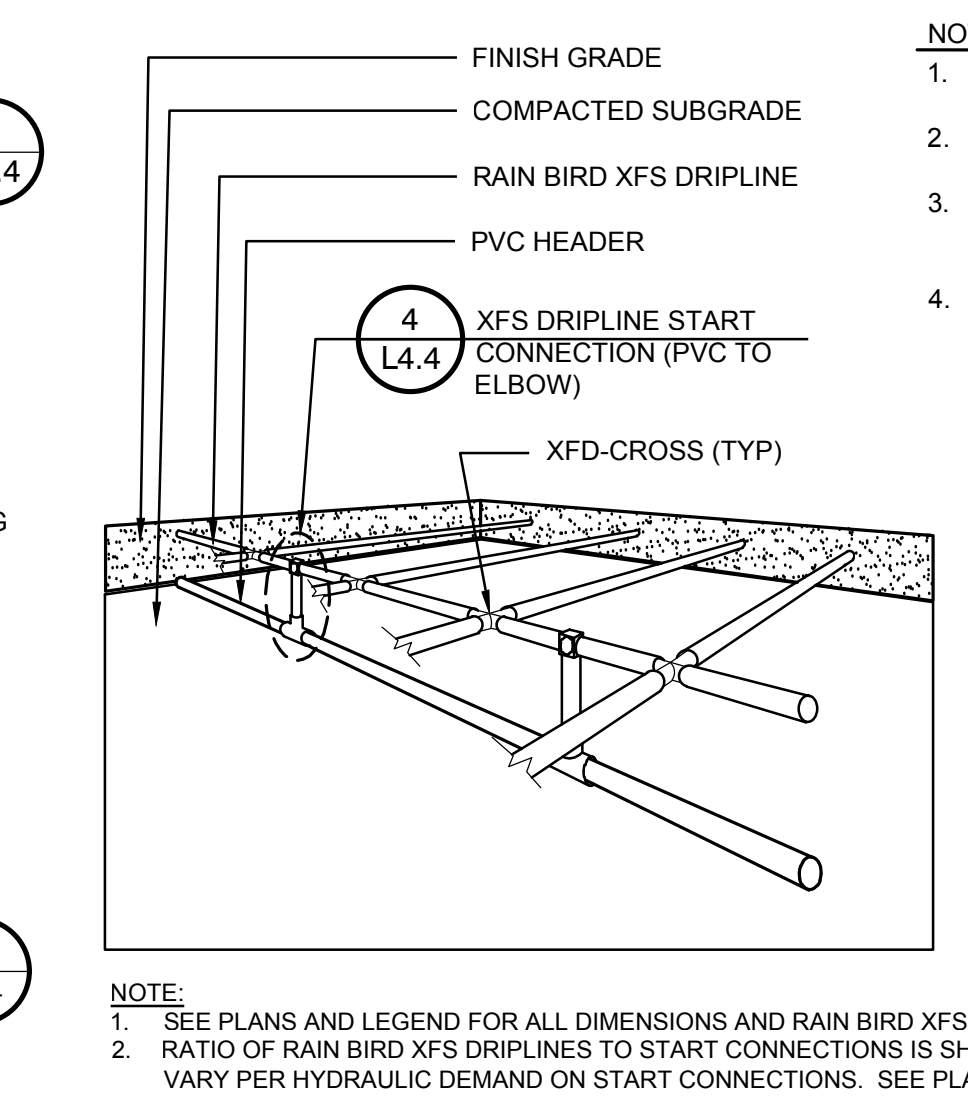
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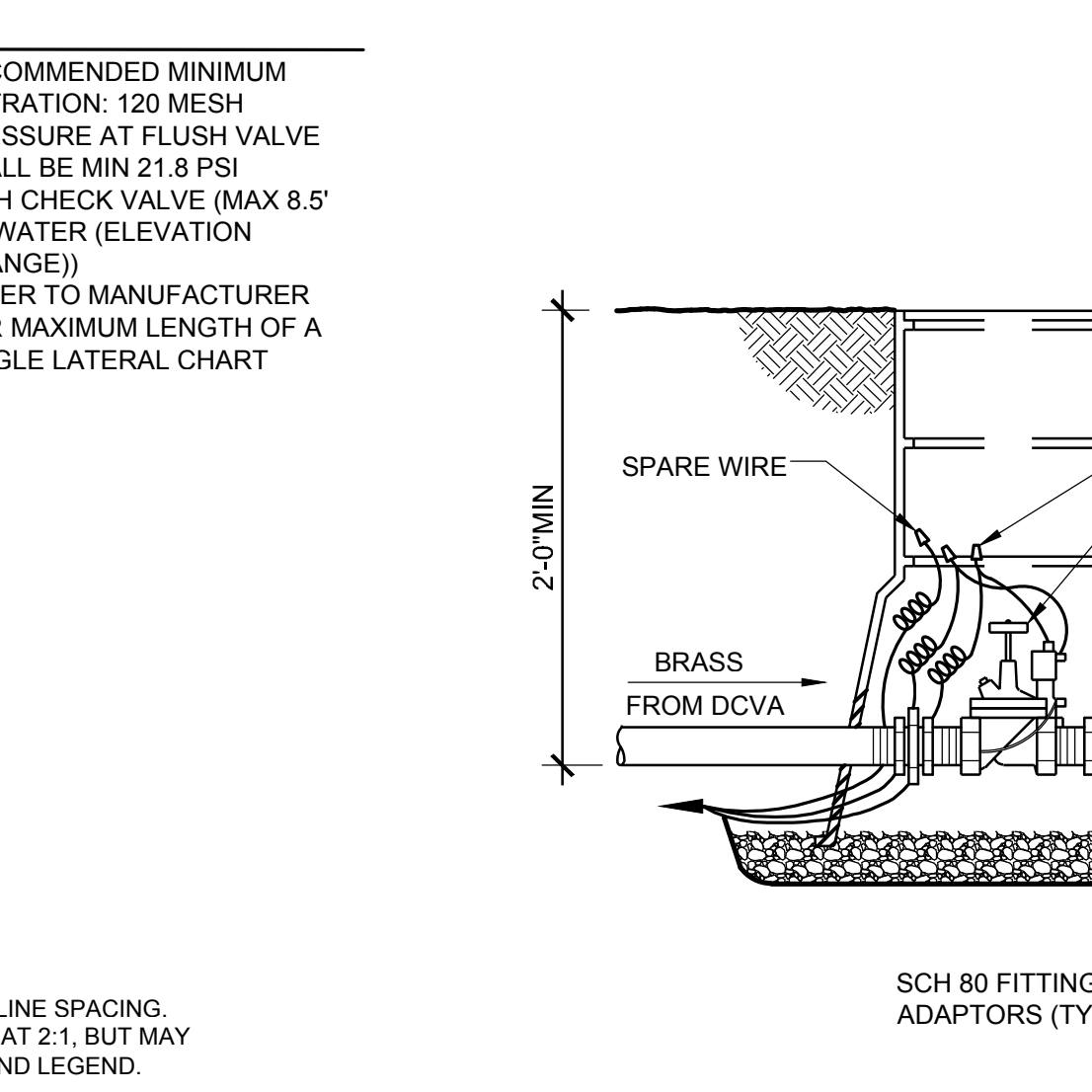
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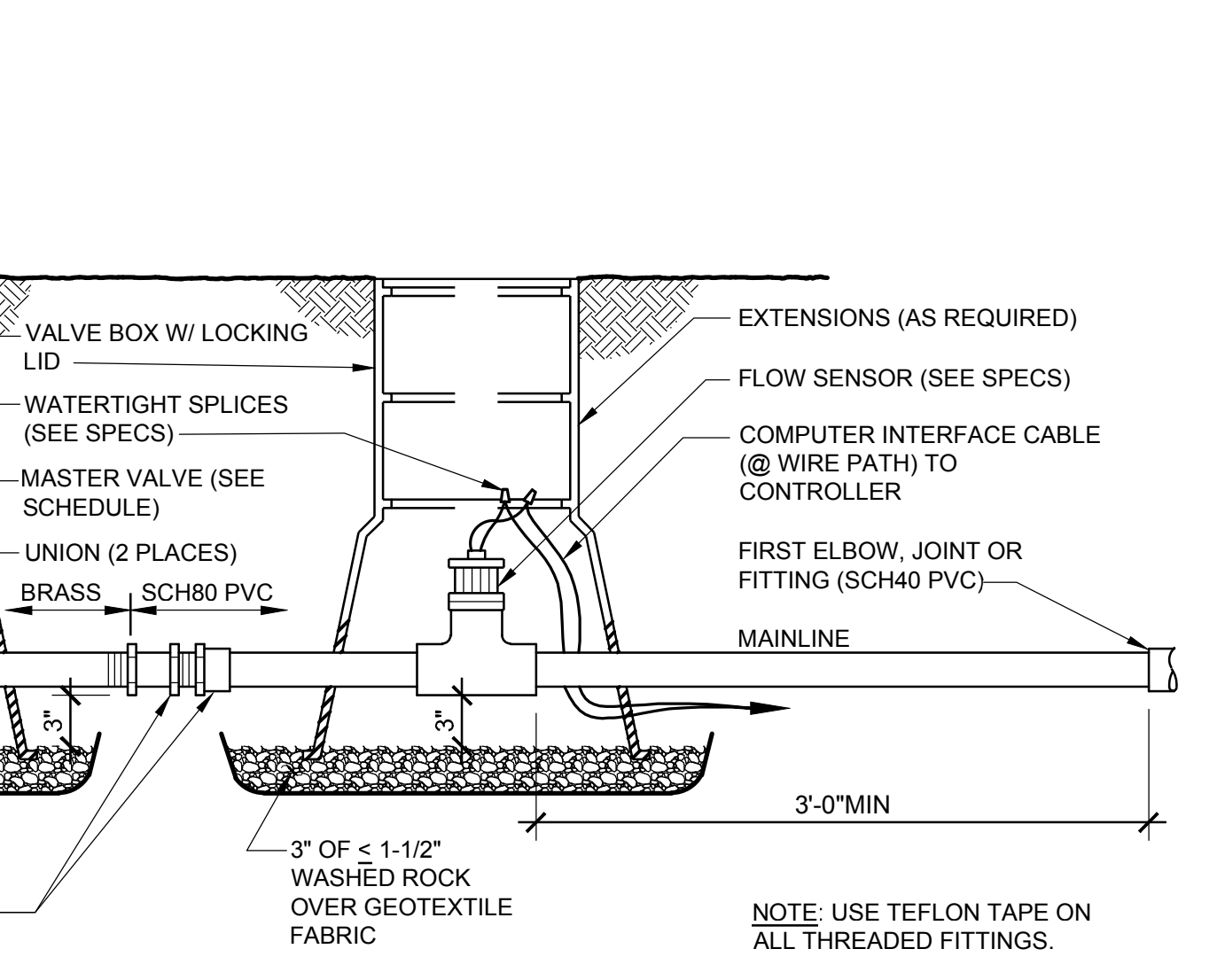
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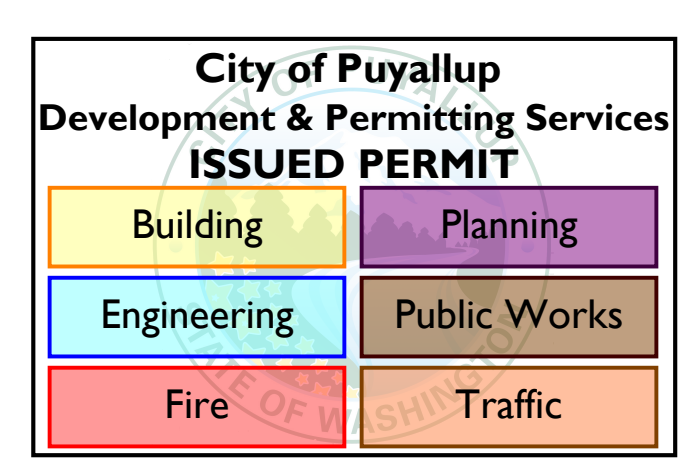
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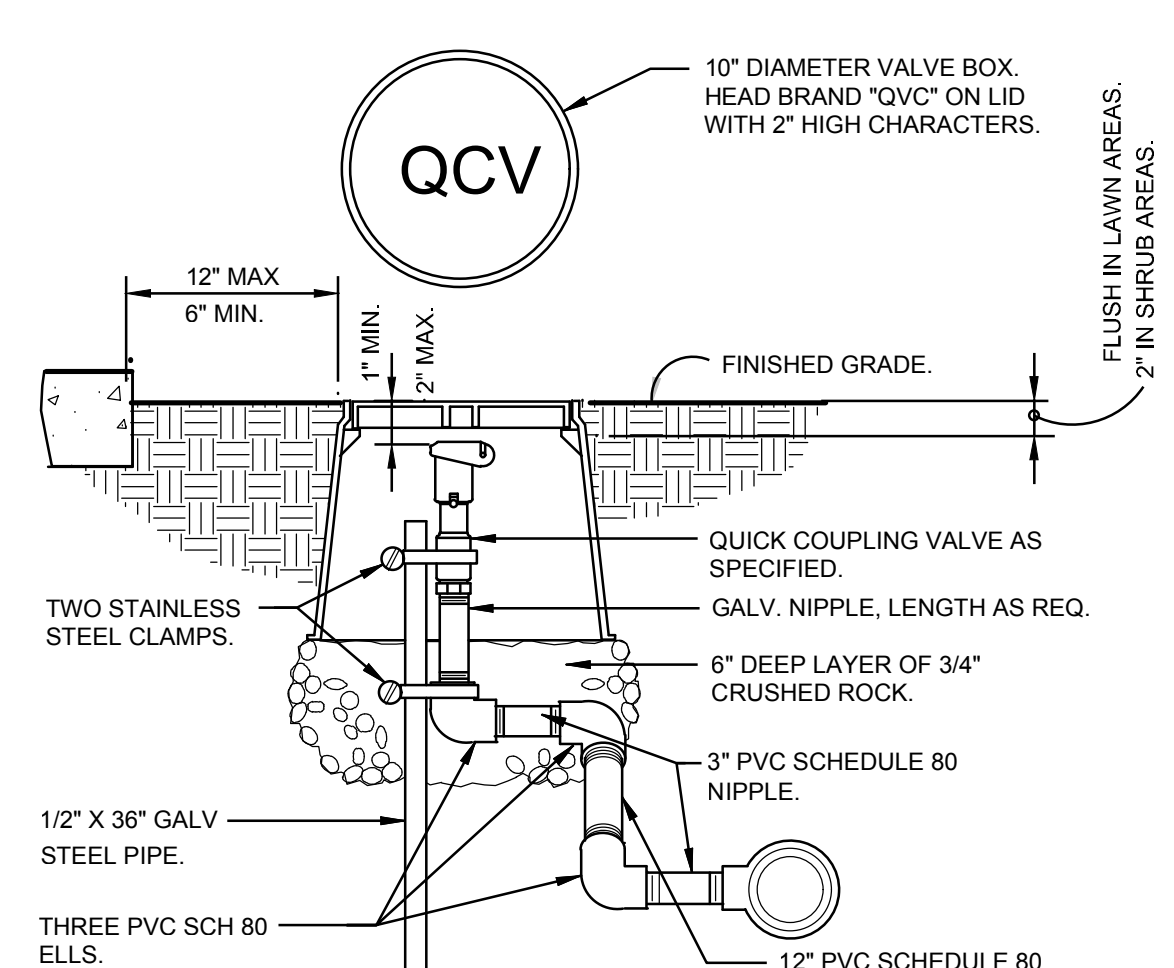
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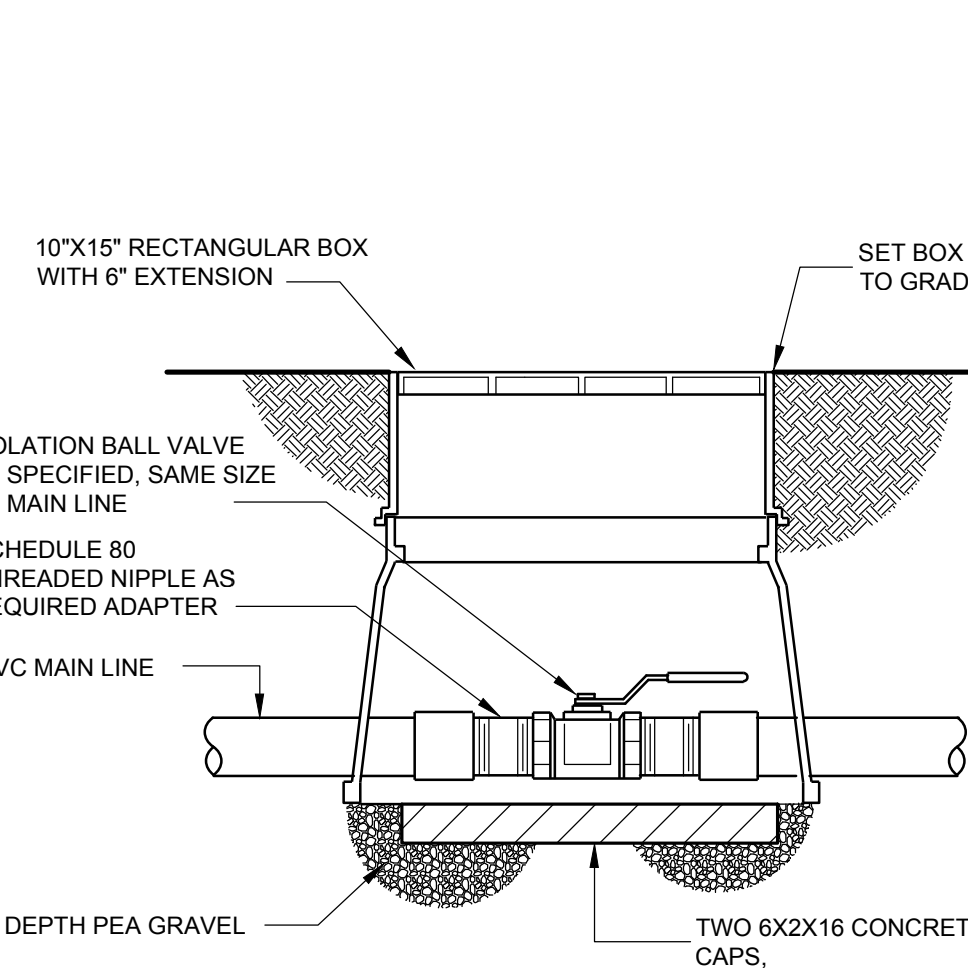
CITY OF PUYALLUP Planning Division Approved Landscape Plan (253) 864-4165  
Staff: Chris BEALE Date: 04/26/2023  
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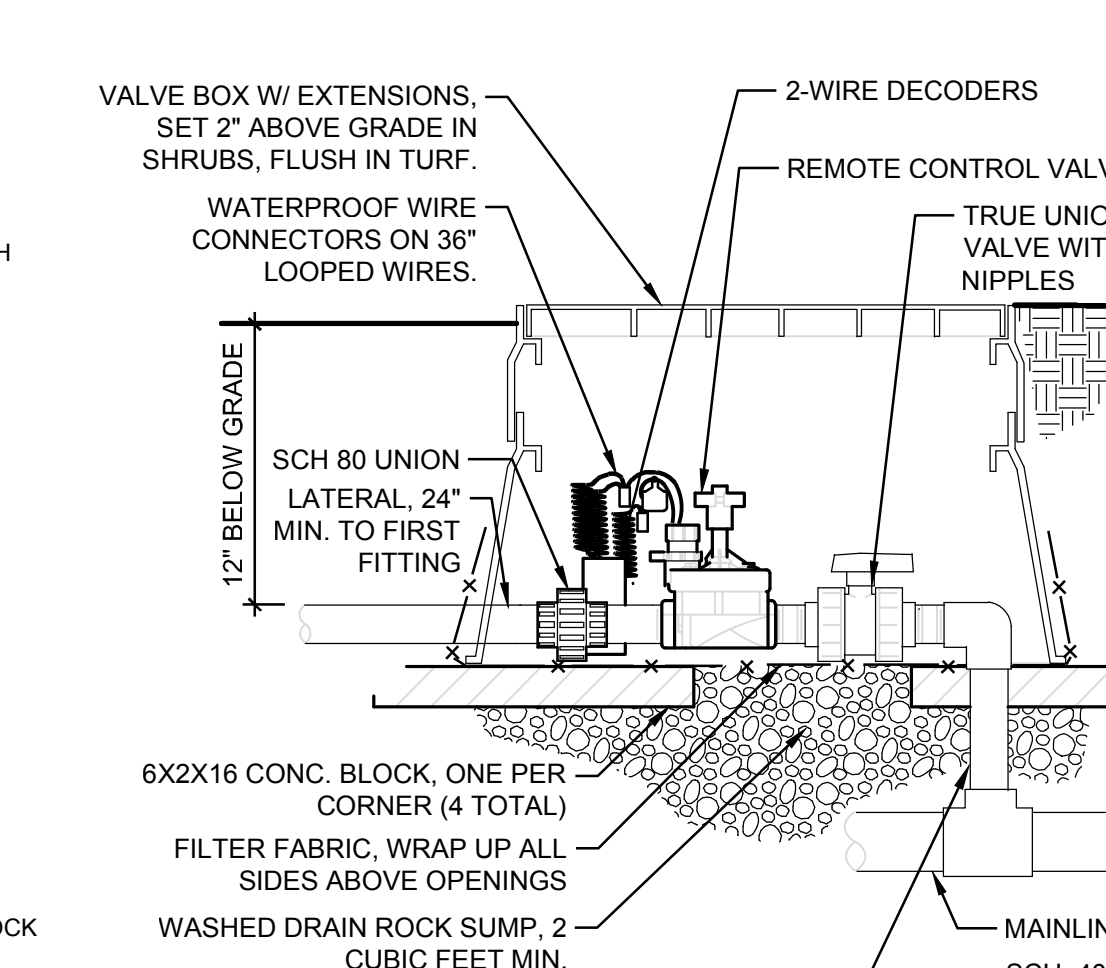
project\_ PUYALLUP CAMPUS PARKING EXPANSION FOR LOTS B AND C  
client\_ PIERCE COLLEGE  
location\_ PUYALLUP, WA  
state project number\_ 2020-546 H (2-1)



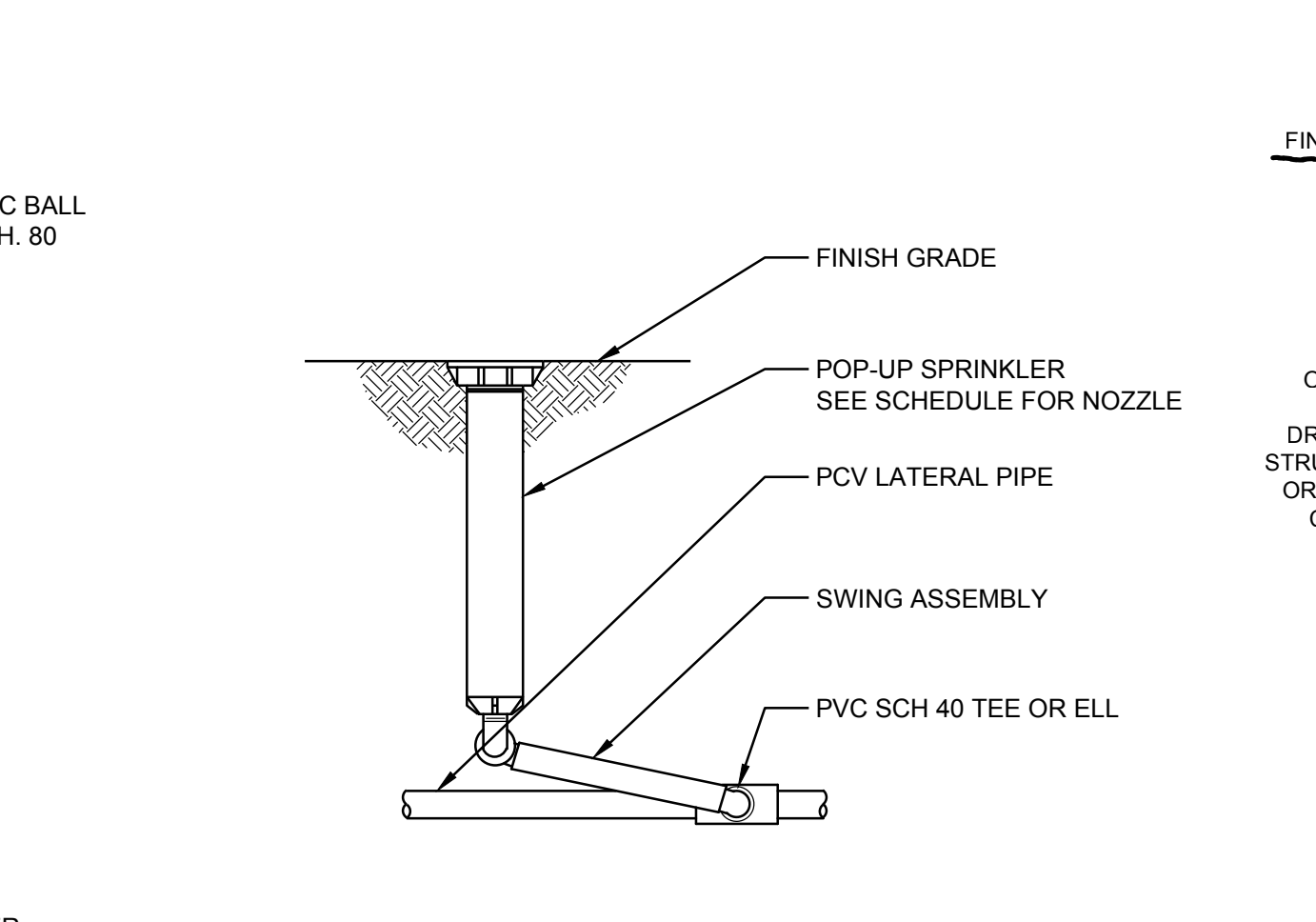
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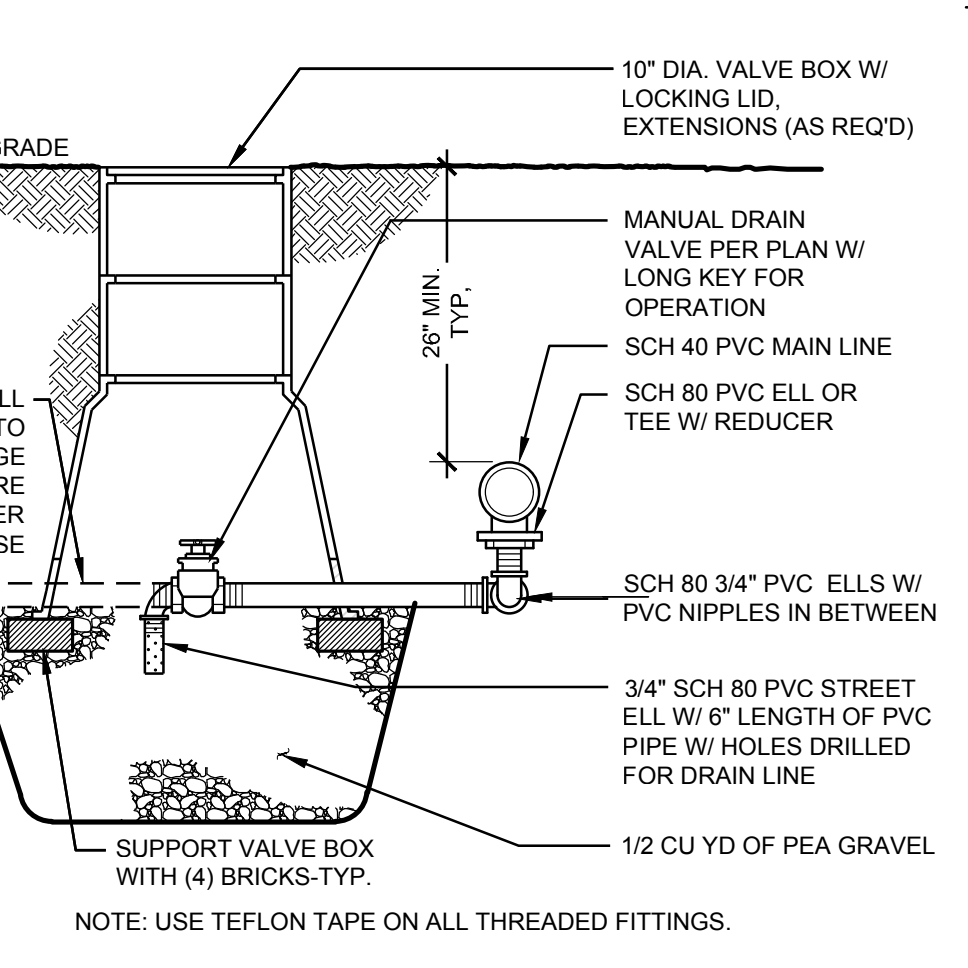
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11 3\"/>



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Project No. 2012.000  
**IRRIGATION DETAILS**

issued\_ 15 FEB 23

revision\_

drawn\_ S Johnson

checked\_ S Singleton Schroedel

sheet\_ L4.4

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