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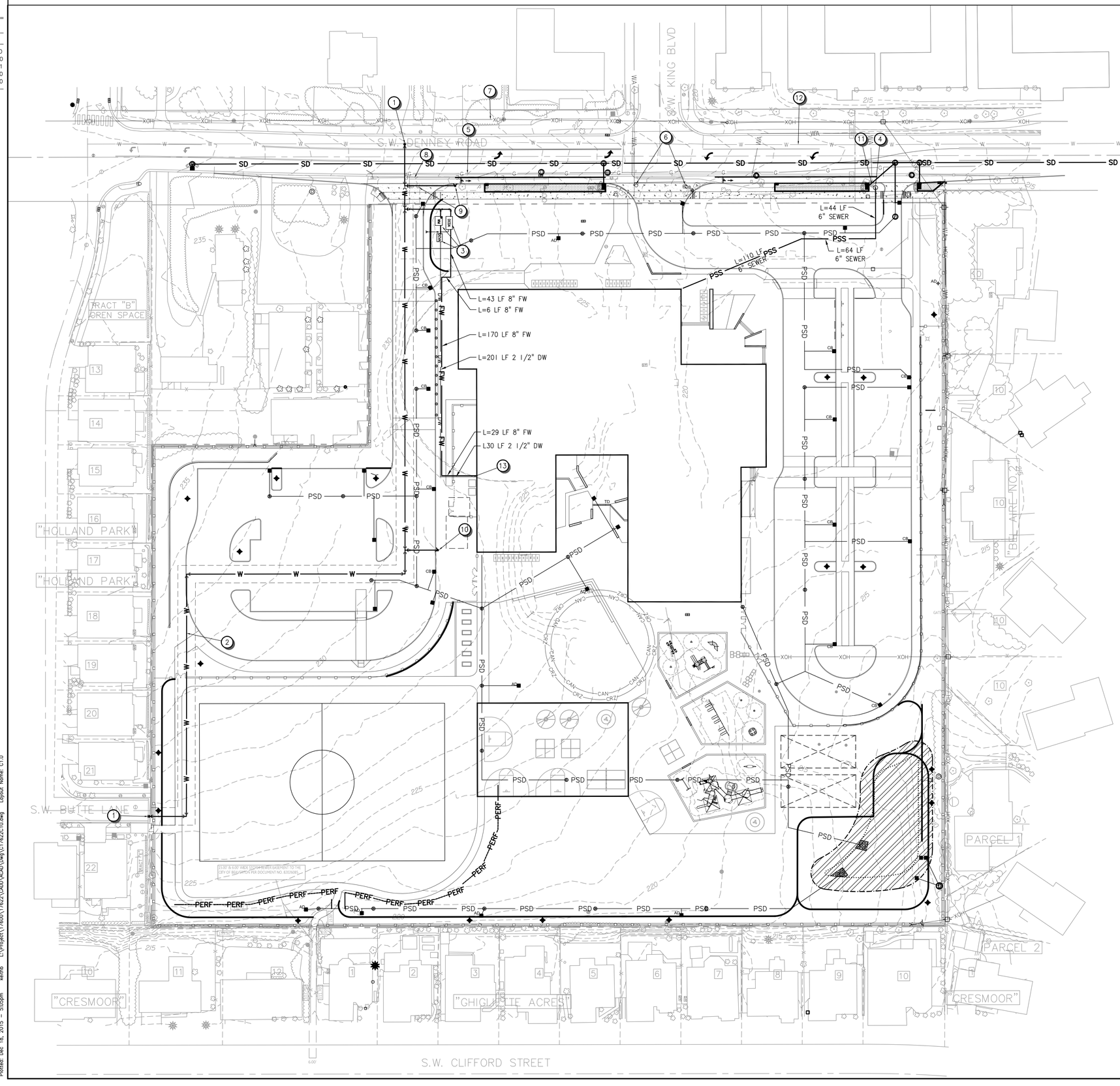

40' 0' 40' 80'
SCALE IN FEET

KEYNOTES:

1. CONNECT TO EXISTING WATER LINE. SEE PUBLIC IMPROVEMENTS FOR DETAILS.
2. INSTALL PUBLIC WATER LINE LOOP CONNECTION PER CITY REQUIREMENT. SEE PUBLIC IMPROVEMENTS FOR DETAILS.
3. INSTALL WATER METER, DOUBLE CHECK VALVE, DOUBLE CHECK DETECTOR, AND SERVICE. SEE PUBLIC IMPROVEMENTS FOR DETAILS.
4. CONNECT TO EXISTING SANITARY SEWER. (CONTRACTOR TO INSPECT EXISTING MANHOLE PRIOR TO CONSTRUCTION.) IE IN (6")=209.49
5. EXISTING GAS LINE.
6. EXISTING TRAFFIC SIGNAL POLE.
7. EXISTING OVERHEAD POWER.
8. EXISTING UNDERGROUND POWER.
9. RELOCATE EXISTING HYDRANT.
10. PROPOSED HYDRANT.
11. EXISTING HYDRANT.
12. CONTRACTOR TO VERIFY LOCATION OF EXISTING WATERLINE.
13. FIRE AND DOMESTIC WATER LINE CONNECTION LOCATION AT BUILDING.

LEGEND

	EXISTING	PROPOSED
STORM LINE (PUBLIC)	ST	SD
STORM MANHOLE		
STORM CURB INLET/CATCH BASIN		
PRIVATE STORM CATCH BASIN		
STORM CLEANOUT		
PRIVATE STORM LINE	ST	PSD
PERFORATED DRAIN LINE		PERF PERF
STORM WATER FACILITY		
LIDA FACILITY		
SANITARY LINE		SS
SANITARY MANHOLE		
WATER LINE	WA	W
WATER METER		WM
DOUBLE CHECK VALVE ASSEMBLY		DCVA
DOUBLE CHECK DETECTOR (FIRE)		DCDA
FIRE HYDRANT		
FDC		
DOMESTIC WATER LINE (PVT)		DW
FIRE WATER LINE (PVT)		FW
OVERHEAD POWER	XOH	
UNDERGROUND POWER	E	
POWER POLE		
LIGHT POLE		
GAS LINE	G	
1' CONTOUR		
5' CONTOUR	230	

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Design Development

PROFESSIONAL ENGINEER 12,629 PRELIMINARY OREGON JUNE 11, 1982 KEITH BUSICK
EXPIRES: 12/31/2015

COMPOSITE UTILITY PLAN
Vose K5
Beaverton School District

C1.0
74-15111-10
10/19/2015
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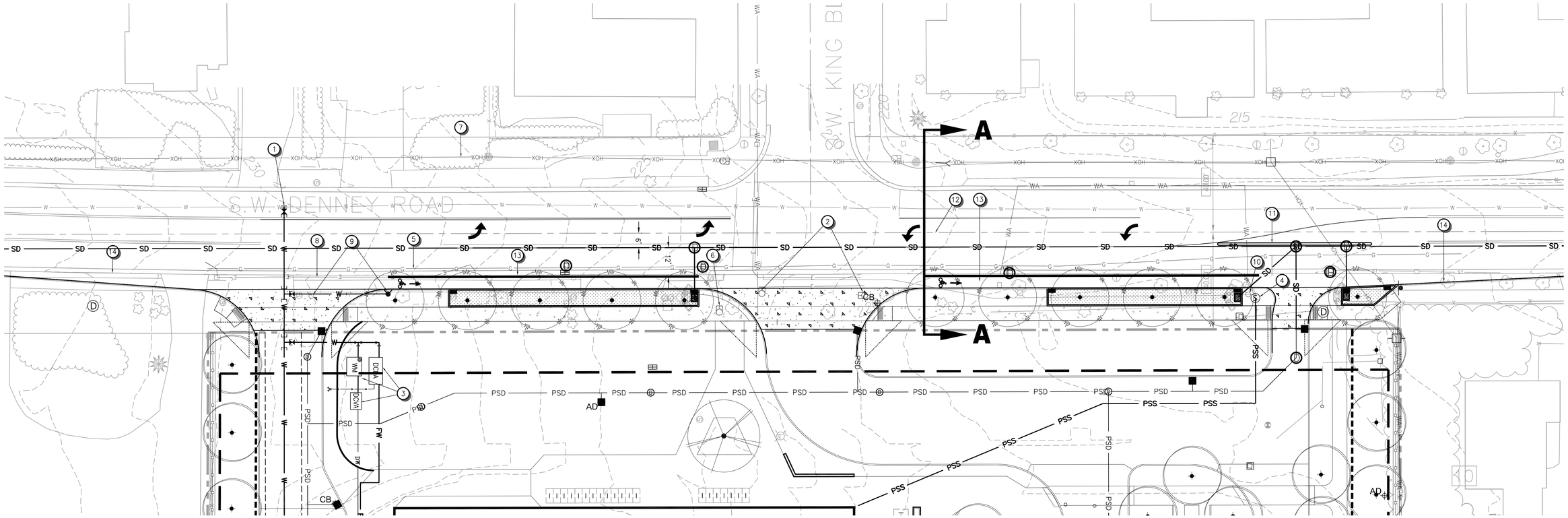

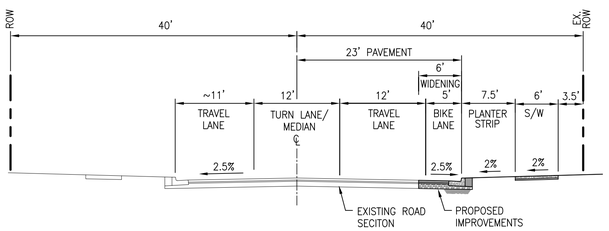

DENNEY ROAD HALF-STREET IMPROVEMENTS

SECTION A–A

CITY OF BEAVERTON (3-LANE COLLECTOR)
NO PARKING

KEYNOTES:

1. CONNECT TO EXISTING WATER LINE.
2. EXISTING TRAFFIC SIGNAL POLE TO BE RELOCATED.
3. INSTALL WATER METER, DOUBLE CHECK VALVE, DOUBLE CHECK DETECTOR, AND SERVICE.
4. CONNECT TO EXISTING SANITARY SEWER. (CONTRACTOR TO INSPECT EXISTING MANHOLE PRIOR TO CONSTRUCTION.)
5. EXISTING GAS LINE TO REMAIN.
6. NEW TRAFFIC SIGNAL POLE LOCATION.
7. EXISTING OVERHEAD POWER TO REMAIN.
8. EXISTING UNDERGROUND POWER TO REMAIN.
9. RELOCATE EXISTING HYDRANT.
10. EXISTING HYDRANT TO REMAIN.
11. PROPOSED TRAFFIC SEPARATOR RESTRICTING LEFT TURN MOVEMENTS.
12. PROPOSED LEFT TURN POCKET AT SIGNAL.
13. PROPOSED BIKE LANE.
14. PROPOSED CURB TAPER (20:1)

LEGEND

	EXISTING	PROPOSED
STORM LINE	ST	SD
STORM MANHOLE		SD
STORM CURB INLET/CATCH BASIN		
STORM WATER FACILITY		
SANITARY LINE		SS
SANITARY MANHOLE		SS
WATER LINE	WA	W
WATER METER		WM
DOUBLE CHECK VALVE ASSEMBLY		DCVA
DOUBLE CHECK DETECTOR (FIRE)		DCDA
FIRE HYDRANT		
FDC		
OVERHEAD POWER	XOH	
UNDERGROUND POWER	E	
POWER POLE		
LIGHT POLE		
GAS LINE	G	
1' CONTOUR		
5' CONTOUR	230	

20' 0' 20' 40'
SCALE IN FEET

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PRELIMINARY
EXPIRES: 12/31/2015

PUBLIC STREET IMPROVMENTS PLAN
Vose K5
Beaverton School District

C1.1
74-15111-10
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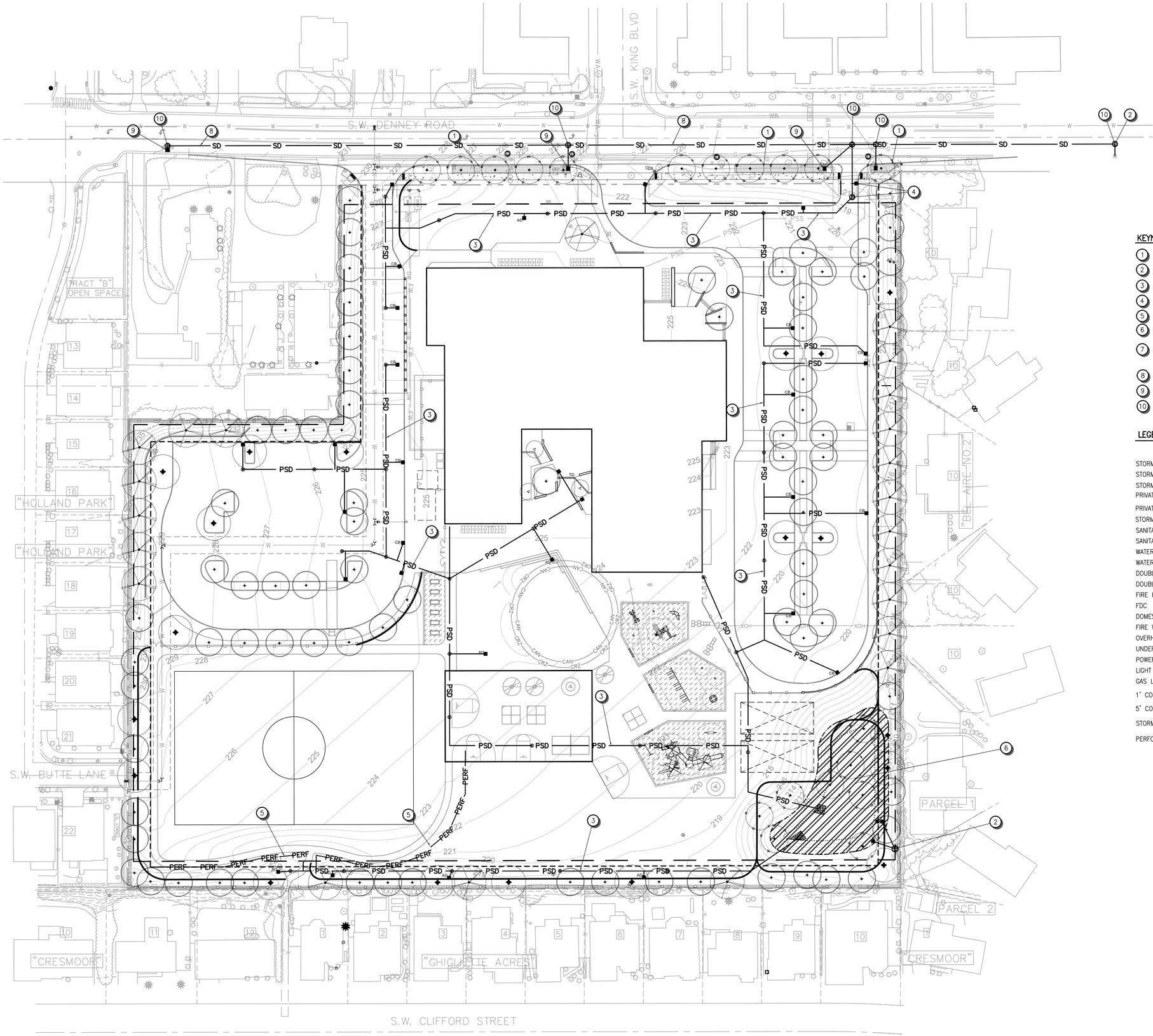

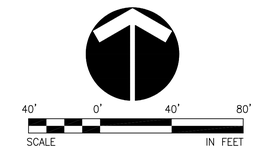

KEYNOTES:

1. CONSTRUCT PUBLIC LIDA PLANTER.
2. CONNECT TO EXISTING STORM SEWER.
3. INSTALL PRIVATE STORM PIPE.
4. INSTALL MECHANICAL STORMWATER TREATMENT STRUCTURE.
5. INSTALL GRAVEL TRENCH AND PERFORATED PIPE ALONG PATH.
6. CONSTRUCT EXTENDED DRY BASIN FACILITY.
7. PROPOSED MANHOLE OVER EXISTING STORM LINE. STORM LINE LOCATION SHOWN IS APPROXIMATE AND IS TO BE VERIFIED IN FIELD.
8. CONSTRUCT PUBLIC STORM PIPE.
9. CONSTRUCT PUBLIC INLET.
10. CONSTRUCT PUBLIC MANHOLE.

LEGEND

	EXISTING	PROPOSED
STORM LINE	ST	PSD
STORM MANHOLE		
STORM CURB INLET/CATCH BASIN		
PRIVATE STORM LINE	ST	PSD
PRIVATE STORM CATCH BASIN		
STORM CLEANOUT		
SANITARY LINE		SS
SANITARY MANHOLE		
WATER LINE	WA	W
WATER METER		WM
DOUBLE CHECK VALVE ASSEMBLY		DCVA
DOUBLE CHECK DETECTOR (FIRE)		DCDA
FIRE HYDRANT		
FDC		
DOMESTIC WATER LINE (PVT)		DW
FIRE WATER LINE (PVT)		FW
OVERHEAD POWER	XOH	
UNDERGROUND POWER	E	
POWER POLE		
LIGHT POLE		
GAS LINE	GAS	
1' CONTOUR		
5' CONTOUR	230	
STORMWATER FACILITY		
PERFORATED DRAIN LINE		PERF

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JAN 8, 2002
ASHLEY C. SIMONDS
EXPIRES: 12/31/2012

STORM OVERALL SITE PLAN

UTILITY PLAN
Vose K5
Beaverton School District

C2.0
74-15111-10
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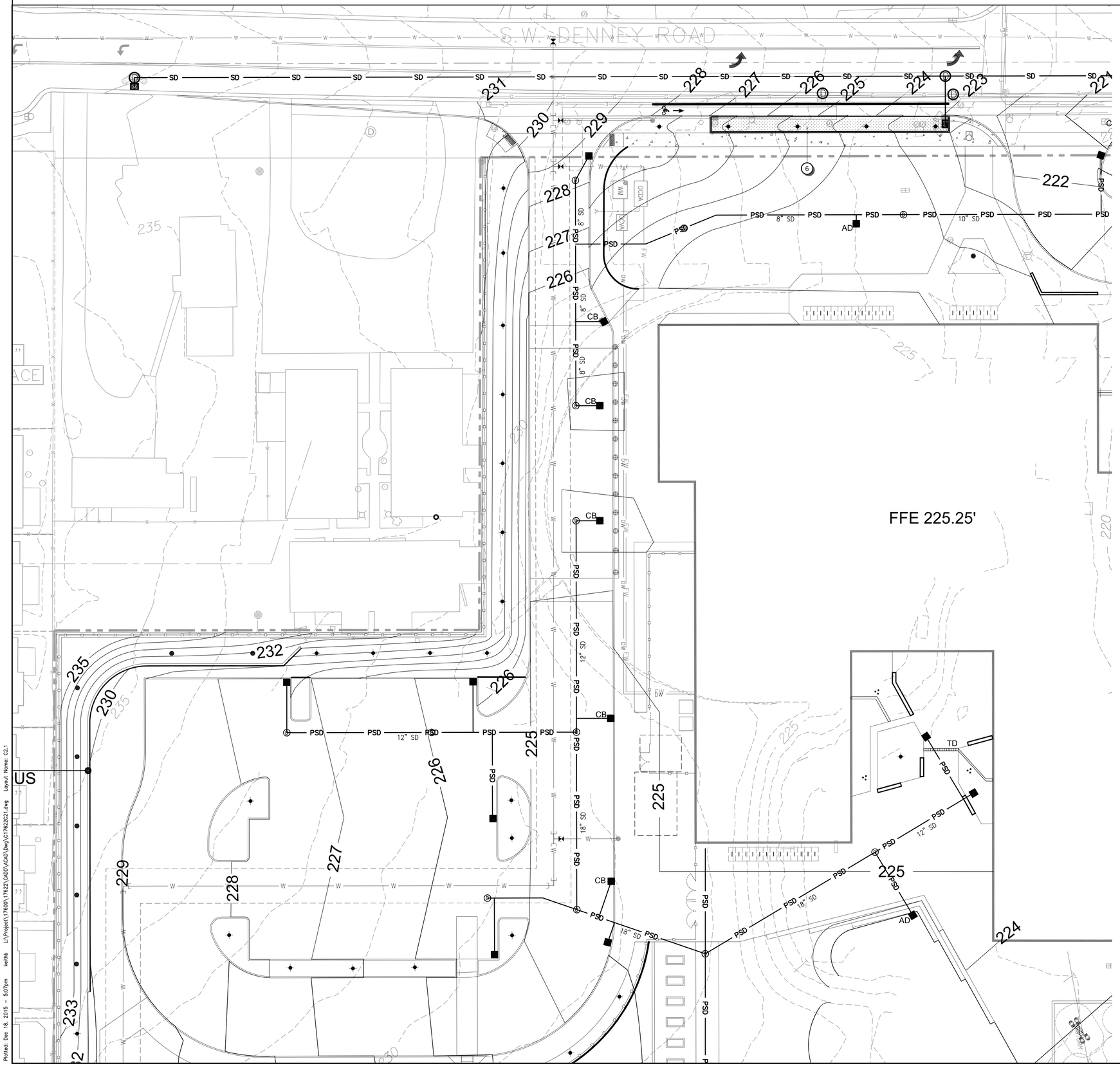


20' 0' 20' 80'
SCALE IN FEET

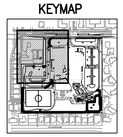
KEYNOTES:

1. CONSTRUCT MECHANICAL TREATMENT FACILITY. SEE SHEET C2.5 FOR DETAILS
2. CONNECT TO PUBLIC STORM SEWER.
3. CONNECT TO EXISTING STORM SEWER.
4. INSTALL GRAVEL TRENCH AND PERFORATED PIPE ALONG PATH.
5. CONSTRUCT EXTENDED DRY BASIN. SEE SHEET C2.5 FOR DETAILS.
6. CONSTRUCT PUBLIC VEGETATED LIDA FACILITY. SHEET R4.1 FOR DETAILS.

LEGEND

	EXISTING	PROPOSED
STORM LINE	ST	PSD
STORM MANHOLE		
STORM CURB INLET/CATCH BASIN		
PRIVATE STORM LINE	ST	PSD
PRIVATE STORM CATCH BASIN		
STORM CLEANOUT		
LIDA FACILITY		
1' CONTOUR		224
5' CONTOUR	230	225
STORMWATER FACILITY		
PERFORATED DRAIN LINE		PERF PERF

KEYMAP



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STORM PLAN A

UTILITY PLAN
Vose K5
Beaverton School District

C2.1
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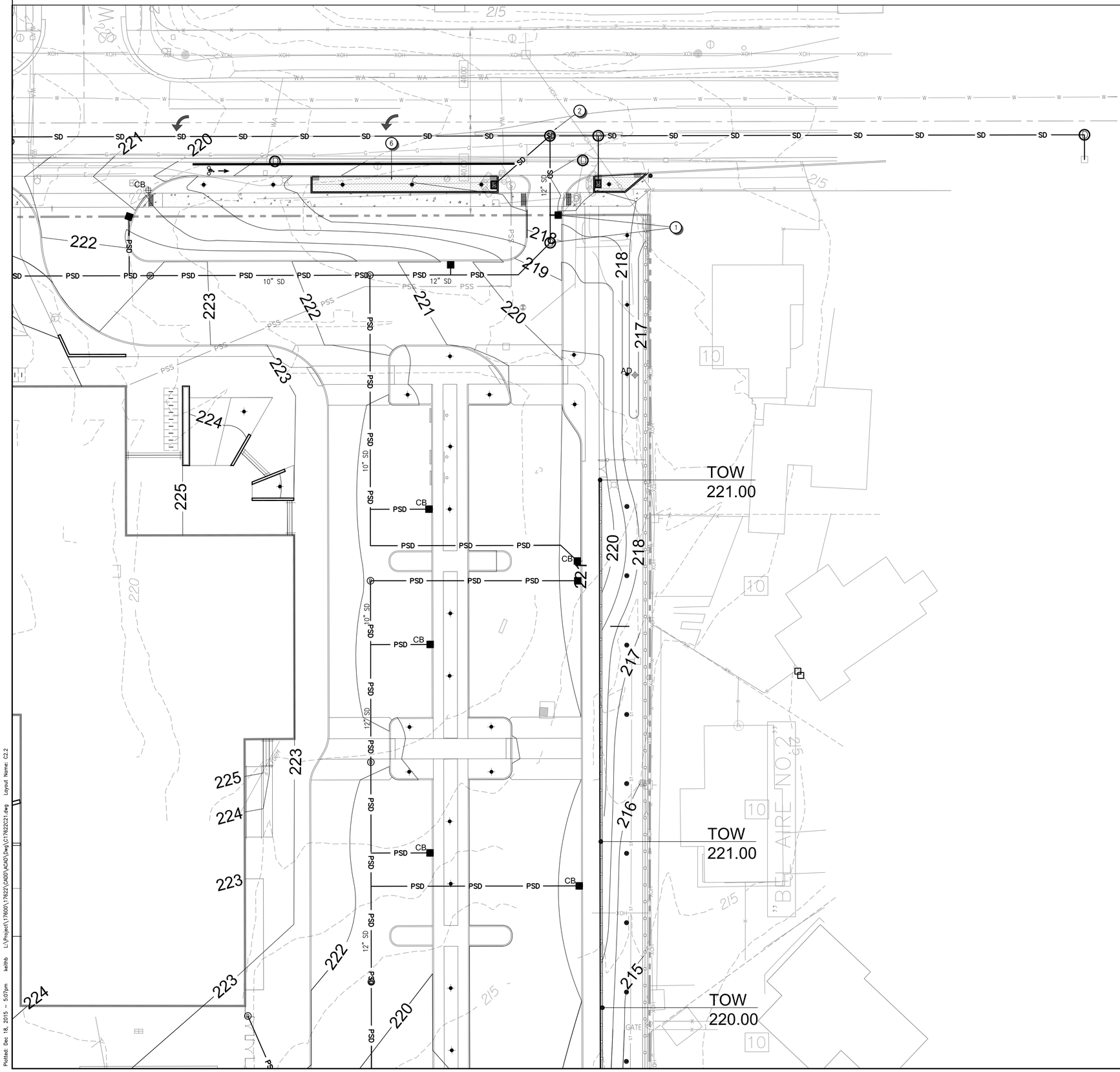


20' 0' 20' 80'
SCALE IN FEET

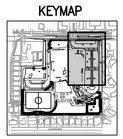
KEYNOTES:

1. CONSTRUCT MECHANICAL TREATMENT FACILITY. SEE SHEET C2.5 FOR DETAILS
2. CONNECT TO PUBLIC STORM SEWER.
3. CONNECT TO EXISTING STORM SEWER.
4. INSTALL GRAVEL TRENCH AND PERFORATED PIPE ALONG PATH.
5. CONSTRUCT EXTENDED DRY BASIN. SEE SHEET C2.5 FOR DETAILS.
6. CONSTRUCT PUBLIC VEGETATED LIDA FACILITY. SHEET R4.1 FOR DETAILS.

LEGEND

	EXISTING	PROPOSED
STORM LINE	ST	PSD
STORM MANHOLE		
STORM CURB INLET/CATCH BASIN		
PRIVATE STORM LINE	ST	PSD
PRIVATE STORM CATCH BASIN		
STORM CLEANOUT		
LIDA FACILITY		
1' CONTOUR		224
5' CONTOUR	230	225
STORMWATER FACILITY		
PERFORATED DRAIN LINE		PERF PERF

KEYMAP



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Design Development

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STORM PLAN B

UTILITY PLAN
Vose K5
Beaverton School District

C2.2
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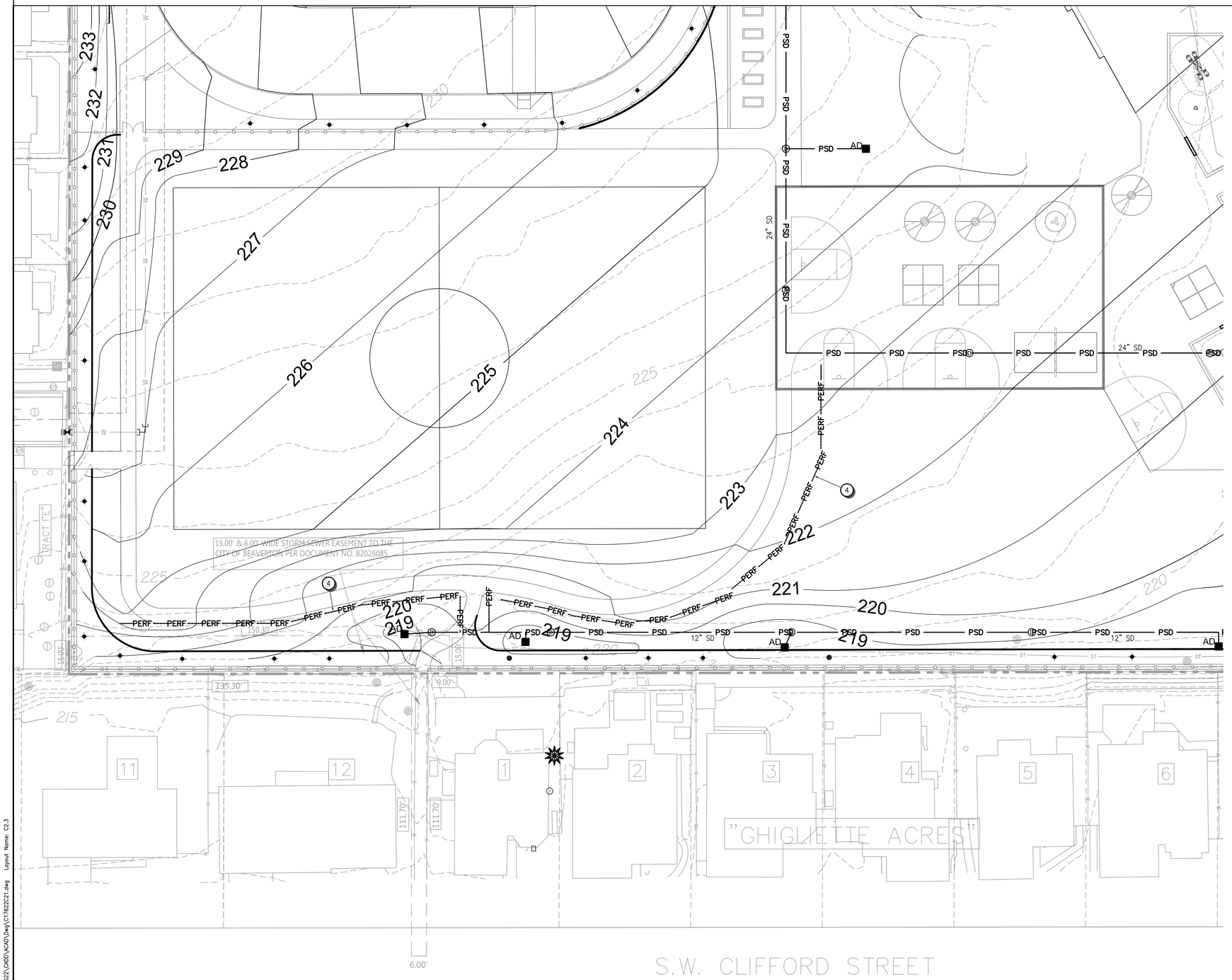


20' 0' 20' 80'
SCALE IN FEET

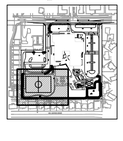
KEYNOTES:

1. CONSTRUCT MECHANICAL TREATMENT FACILITY. SEE SHEET C2.5 FOR DETAILS
2. CONNECT TO PUBLIC STORM SEWER.
3. CONNECT TO EXISTING STORM SEWER.
4. INSTALL GRAVEL TRENCH AND PERFORATED PIPE ALONG PATH.
5. CONSTRUCT EXTENDED DRY BASIN. SEE SHEET C2.5 FOR DETAILS.
6. CONSTRUCT PUBLIC VEGETATED LIDA FACILITY. SHEET R4.1 FOR DETAILS.

LEGEND

	EXISTING	PROPOSED
STORM LINE	ST	PSD
STORM MANHOLE		
STORM CURB INLET/CATCH BASIN		
PRIVATE STORM LINE	ST	PSD
PRIVATE STORM CATCH BASIN		
STORM CLEANOUT		
LIDA FACILITY		
1' CONTOUR		224
5' CONTOUR	230	225
STORMWATER FACILITY		
PERFORATED DRAIN LINE		PERF

KEYMAP



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STORM PLAN C

UTILITY PLAN
Vose K5
Beaverton School District

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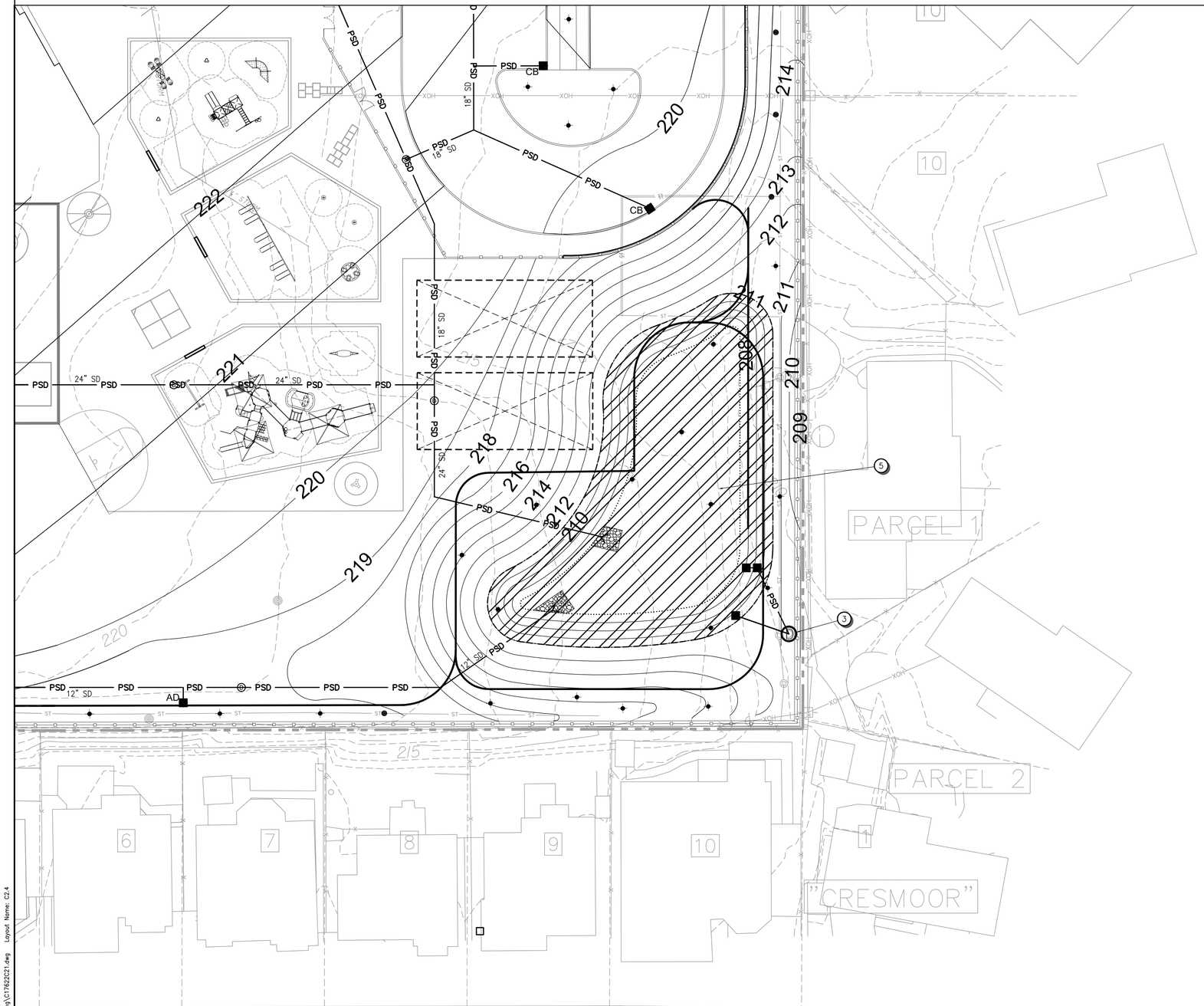

20' 0' 20' 80'
SCALE IN FEET

KEYNOTES:

1. CONSTRUCT MECHANICAL TREATMENT FACILITY. SEE SHEET C2.5 FOR DETAILS
2. CONNECT TO PUBLIC STORM SEWER.
3. CONNECT TO EXISTING STORM SEWER.
4. INSTALL GRAVEL TRENCH AND PERFORATED PIPE ALONG PATH.
5. CONSTRUCT EXTENDED DRY BASIN. SEE SHEET C2.5 FOR DETAILS.
6. CONSTRUCT PUBLIC VEGETATED LIDA FACILITY. SHEET R4.1 FOR DETAILS.

LEGEND

	EXISTING	PROPOSED
STORM LINE	ST	PSD
STORM MANHOLE		
STORM CURB INLET/CATCH BASIN		
PRIVATE STORM LINE	ST	PSD
PRIVATE STORM CATCH BASIN		
STORM CLEANOUT		
LIDA FACILITY		
1' CONTOUR		224
5' CONTOUR	230	225
STORMWATER FACILITY		
PERFORATED DRAIN LINE		PERF PERF

KEYMAP

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Design Development

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OREGON
JAN 8, 1982
ASHLEY C. SIMMONS
PRELIMINARY
EXPIRES: 12/31/2012

STORM PLAN D

UTILITY PLAN
Vose K5
Beaverton School District

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STORMFILTER CATCHBASIN DESIGN NOTES

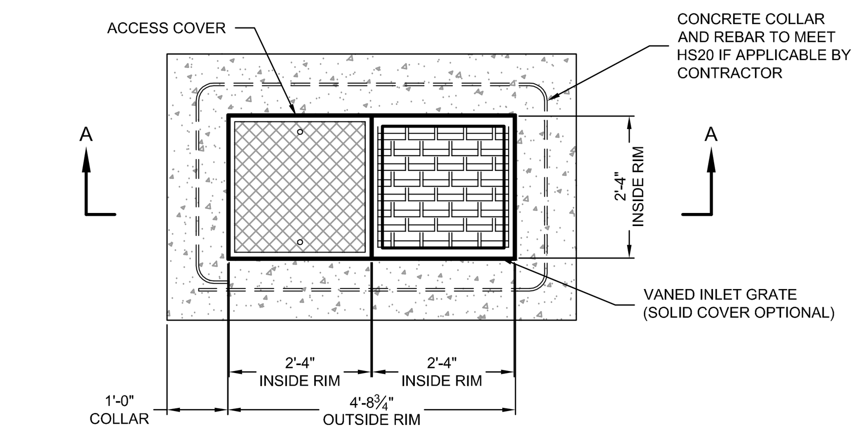
STORMFILTER TREATMENT CAPACITY IS A FUNCTION OF THE CARTRIDGE SELECTION AND THE NUMBER OF CARTRIDGES. 1 CARTRIDGE CATCHBASIN HAS A MAXIMUM OF ONE CARTRIDGE. SYSTEM IS SHOWN WITH A 27" CARTRIDGE, AND IS ALSO AVAILABLE WITH AN 18" CARTRIDGE. STORMFILTER CATCHBASIN CONFIGURATIONS ARE AVAILABLE WITH A DRY INLET BAY FOR VECTOR CONTROL.
PEAK HYDRAULIC CAPACITY PER TABLE BELOW. IF THE SITE CONDITIONS EXCEED PEAK HYDRAULIC CAPACITY, AN UPSTREAM BYPASS STRUCTURE IS REQUIRED.

CARTRIDGE SELECTION

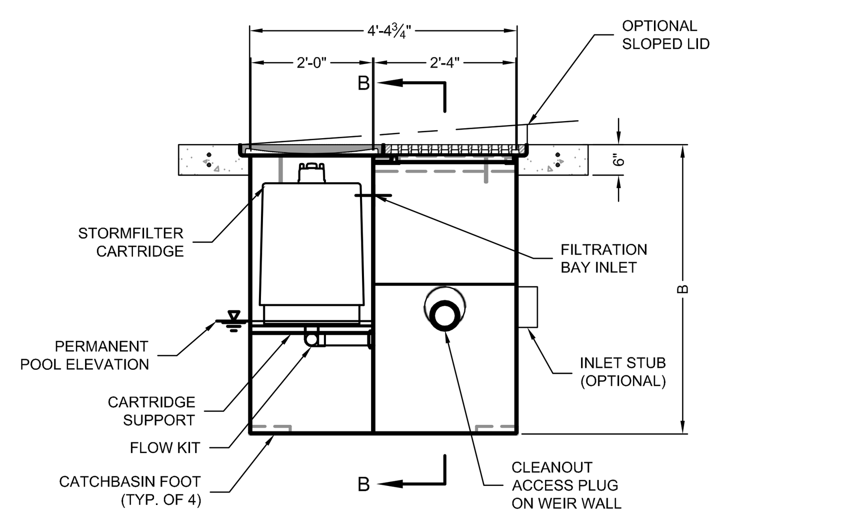
CARTRIDGE HEIGHT	27"		18"		18" DEEP	
MINIMUM HYDRAULIC DROP (H)	3.05'		2.3'		3.3'	
SPECIFIC FLOW RATE (gpm/sf)	2 gpm/ft²	1 gpm/ft²	2 gpm/ft²	1 gpm/ft²	2 gpm/ft²	1 gpm/ft²
CARTRIDGE FLOW RATE (gpm)	22.5	11.25	15	7.5	15	7.5
PEAK HYDRAULIC CAPACITY	1.0		1.0		1.8	
INLET PERMANENT POOL LEVEL (A)	1'-0"		1'-0"		2'-0"	
OVERALL STRUCTURE HEIGHT (B)	4'-9"		3'-9"		4'-9"	

GENERAL NOTES
1. CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
2. FOR SITE SPECIFIC DRAWINGS WITH DETAILED STORMFILTER CATCHBASIN STRUCTURE DIMENSIONS AND WEIGHTS, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS LLC REPRESENTATIVE. www.ContechES.com
3. STORMFILTER CATCHBASIN WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING.
4. INLET SHOULD NOT BE LOWER THAN OUTLET. INLET (IF APPLICABLE) AND OUTLET PIPING TO BE SPECIFIED BY ENGINEER AND PROVIDED BY CONTRACTOR.
5. STORMFILTER CATCHBASIN EQUIPPED WITH 4 INCH (APPROXIMATE) LONG STUBS FOR INLET (IF APPLICABLE) AND OUTLET PIPING. STANDARD OUTLET STUB IS 8 INCHES IN DIAMETER. MAXIMUM OUTLET STUB IS 15 INCHES IN DIAMETER. CONNECTION TO COLLECTION PIPING CAN BE MADE USING FLEXIBLE COUPLING BY CONTRACTOR.
6. STEEL STRUCTURE TO BE MANUFACTURED OF 1/4 INCH STEEL PLATE. CASTINGS SHALL MEET AASHTO M306 LOAD RATING. TO MEET HS20 LOAD RATING ON STRUCTURE, A CONCRETE COLLAR IS REQUIRED. WHEN REQUIRED, CONCRETE COLLAR WITH QUANTITY (2) #4 REINFORCING BARS TO BE PROVIDED BY CONTRACTOR.
7. FILTER CARTRIDGES SHALL BE MEDIA-FILLED, PASSIVE, SIPHON ACTUATED, RADIAL FLOW, AND SELF CLEANING. RADIAL MEDIA DEPTH SHALL BE 7-INCHES. FILTER MEDIA CONTACT TIME SHALL BE AT LEAST 37 SECONDS.
8. SPECIFIC FLOW RATE IS EQUAL TO THE FILTER TREATMENT CAPACITY (gpm) DIVIDED BY THE FILTER CONTACT SURFACE AREA (sq ft).

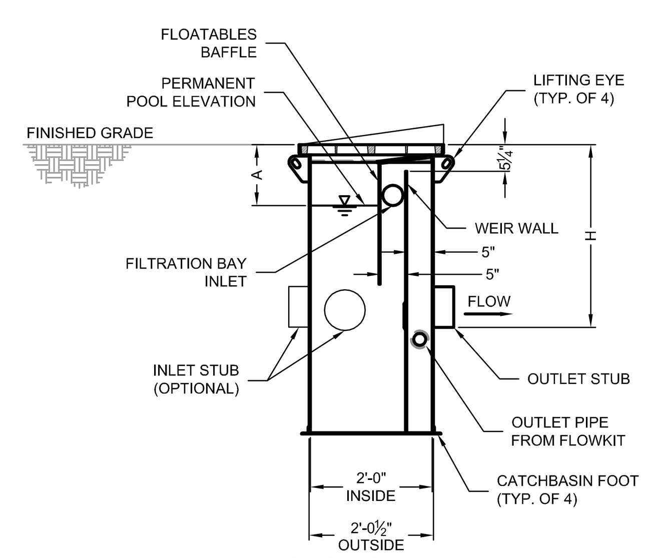
INSTALLATION NOTES
A. ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
B. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE CATCHBASIN (LIFTING CLUTCHES PROVIDED).
C. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO PROTECT CARTRIDGES FROM CONSTRUCTION-RELATED EROSION RUNOFF.



PLAN VIEW



SECTION A-A



SECTION B-B

1-CARTRIDGE CATCHBASIN STORMFILTER DATA		
STRUCTURE ID		XXX
WATER QUALITY FLOW RATE (cfs)		X.XX
PEAK FLOW RATE (<1 cfs)		X.XX
RETURN PERIOD OF PEAK FLOW (yrs)		XXX
CARTRIDGE FLOW RATE (gpm)		XX
MEDIA TYPE (CSF, PERLITE, ZPG, GAC, PHS)		XXXXX
RIM ELEVATION		XXX.XX'
PIPE DATA:	I.E.	DIAMETER
INLET STUB	XXX.XX'	XX"
OUTLET STUB	XXX.XX'	XX"
CONFIGURATION: OUTLET / INLET / INLET — OUTLET / INLET / INLET		
SLOPED LID		YES\NO
SOLID COVER		YES\NO
NOTES/SPECIAL REQUIREMENTS:		

The Stormwater Management StormFilter®

CONTECH ENGINEERED SOLUTIONS LLC
www.ContechES.com
9025 Centre Pointe Dr., Suite 400, West Chester, OH 45069
800-338-1122 513-645-7000 513-645-7993 FAX

1 CARTRIDGE CATCHBASIN
STORMFILTER
STANDARD DETAIL

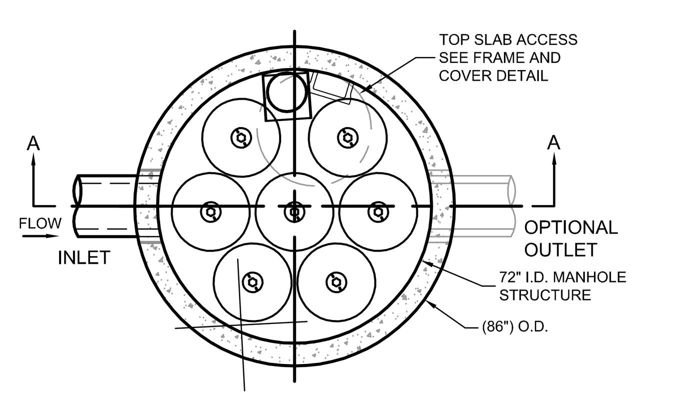
INFILTRATOR STORMFILTER DESIGN NOTES

INFILTRATOR STORMFILTER TREATMENT CAPACITY IS A FUNCTION OF THE CARTRIDGE SELECTION AND THE NUMBER OF CARTRIDGES. THE STANDARD MANHOLE STYLE IS SHOWN WITH THE MAXIMUM NUMBER OF CARTRIDGES (7).

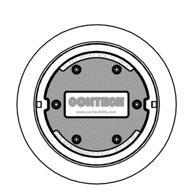
Ø72" MANHOLE STORMFILTER PEAK HYDRAULIC CAPACITY IS 1.5 CFS. IF THE SITE CONDITIONS EXCEED 1.5 CFS AN UPSTREAM BYPASS STRUCTURE IS REQUIRED.

CARTRIDGE SELECTION

CARTRIDGE HEIGHT	27"		18"		LOW DROP	
RECOMMENDED HYDRAULIC DROP (H)	3.05'		2.3'		1.8'	
SPECIFIC FLOW RATE (gpm/sf)	2 gpm/ft²	1 gpm/ft²	2 gpm/ft²	1 gpm/ft²	2 gpm/ft²	1 gpm/ft²
CARTRIDGE FLOW RATE (gpm)	22.5	11.25	15	7.5	10	5

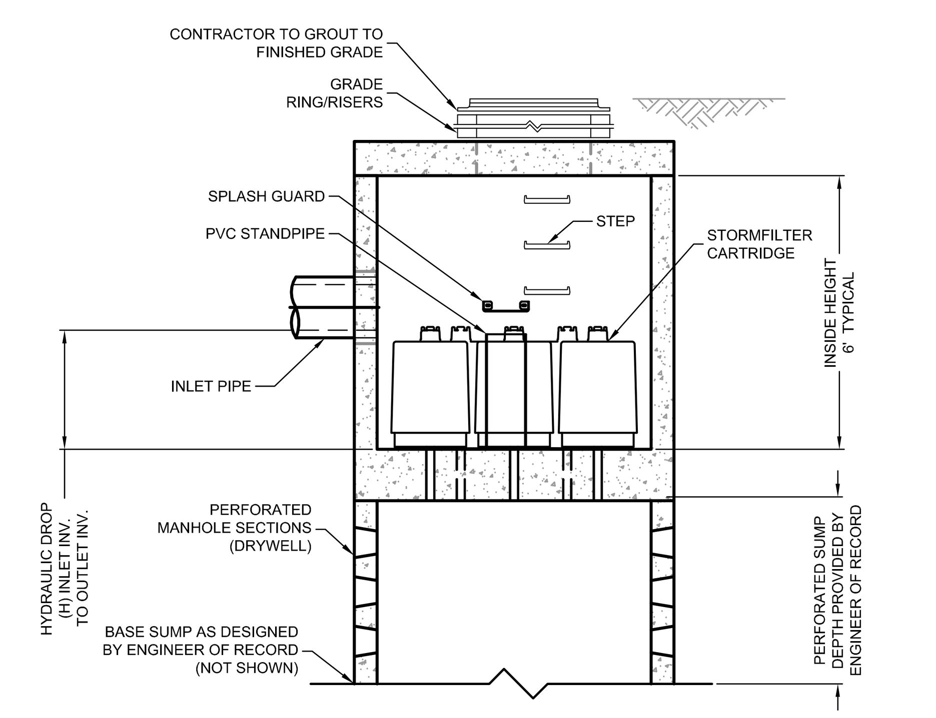


PLAN VIEW
TOP SLAB NOT SHOWN



FRAME AND COVER
(DIAMETER VARIES)
N.T.S.

SITE SPECIFIC DATA REQUIREMENTS			
STRUCTURE ID			*
WATER QUALITY FLOW RATE (cfs)			*
PEAK FLOW RATE (cfs)			*
RETURN PERIOD OF PEAK FLOW (yrs)			*
# OF CARTRIDGES REQUIRED			*
CARTRIDGE FLOW RATE			*
MEDIA TYPE (CSF, PERLITE, ZPG, GAC, PHS)			*
PIPE DATA:	I.E.	MATERIAL	DIAMETER
INLET PIPE #1	*	*	*
INLET PIPE #2	*	*	*
OUTLET PIPE	*	*	*
RIM ELEVATION			*
ANTI-FLOTATION BALLAST		WIDTH	HEIGHT
		*	*
NOTES/SPECIAL REQUIREMENTS:			
* PER ENGINEER OF RECORD			



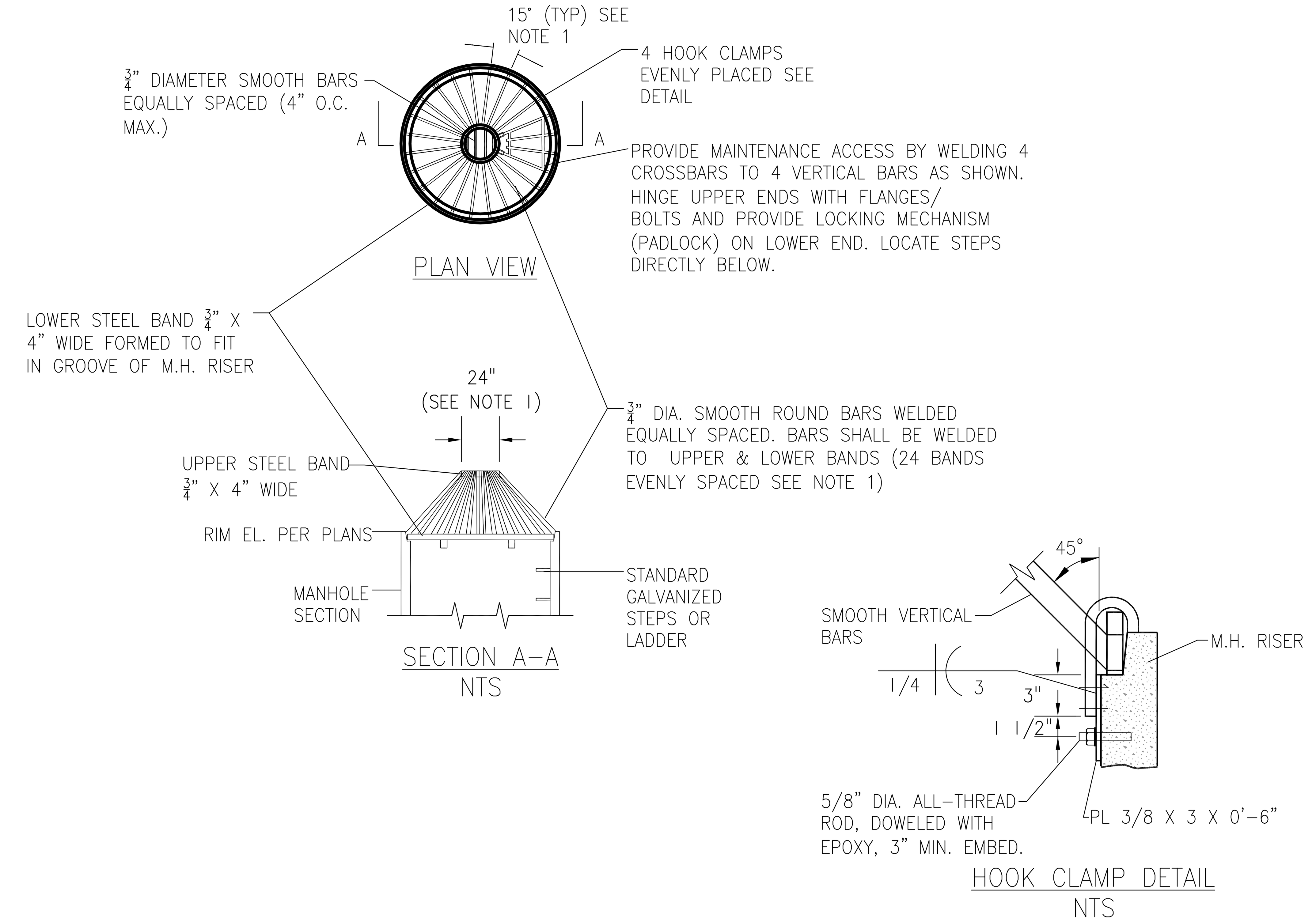
SECTION A-A

GENERAL NOTES
1. CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
2. DIMENSIONS MARKED WITH ( ) ARE REFERENCE DIMENSIONS. ACTUAL DIMENSIONS MAY VARY.
3. FOR SITE SPECIFIC DRAWINGS WITH DETAILED VAULT DIMENSIONS AND WEIGHTS, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS LLC REPRESENTATIVE. www.ContechES.com
4. INFILTRATOR STORMFILTER WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING.
5. STRUCTURE SHALL MEET AASHTO HS20 LOAD RATING, ASSUMING EARTH COVER OF 0' - 5' AND GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION. CASTINGS SHALL MEET AASHTO M306 AND BE CAST WITH THE CONTECH LOGO.
6. FILTER CARTRIDGES SHALL BE MEDIA-FILLED, PASSIVE, SIPHON ACTUATED, RADIAL FLOW, AND SELF CLEANING. RADIAL MEDIA DEPTH SHALL BE 7-INCHES. FILTER MEDIA CONTACT TIME SHALL BE AT LEAST 39 SECONDS.
7. SPECIFIC FLOW RATE IS EQUAL TO THE FILTER TREATMENT CAPACITY (gpm) DIVIDED BY THE FILTER CONTACT SURFACE AREA (sq ft).

INSTALLATION NOTES
1. ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
2. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE STORMFILTER STRUCTURE (LIFTING CLUTCHES PROVIDED).
3. CONTRACTOR TO INSTALL JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS AND ASSEMBLE STRUCTURE.
4. CONTRACTOR TO PROVIDE, INSTALL, AND GROUT INLET PIPE(S).
5. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO PROTECT CARTRIDGES FROM CONSTRUCTION-RELATED EROSION RUNOFF.

CONTECH ENGINEERED SOLUTIONS LLC
www.ContechES.com
9025 Centre Pointe Dr., Suite 400, West Chester, OH 45069
800-338-1122 513-645-7000 513-645-7993 FAX

SFIN-MH72
INFILTRATOR STORMFILTER
STANDARD DETAIL



NOTES:
1. DIMENSIONS ARE FOR ILLUSTRATION ON 54" DIAMETER MH. FOR DIFFERENT DIAMETER MH'S ADJUST TO MAINTAIN 45° ANGLE ON "VERTICAL" BARS AND 4" O.C. MAXIMUM SPACING OF BARS AROUND LOWER STEEL BAND.
2. METAL PARTS MUST BE CORROSION RESISTANT; STEEL BARS MUST BE GALVANIZED.
3. THIS DEBRIS BARRIER IS ALSO RECOMMENDED FOR USE ON THE INLET TO ROADWAY CROSS–CULVERTS WITH HIGH POTENTIAL FOR DEBRIS COLLECTION (EXCEPT ON TYPE 2 STREAMS).

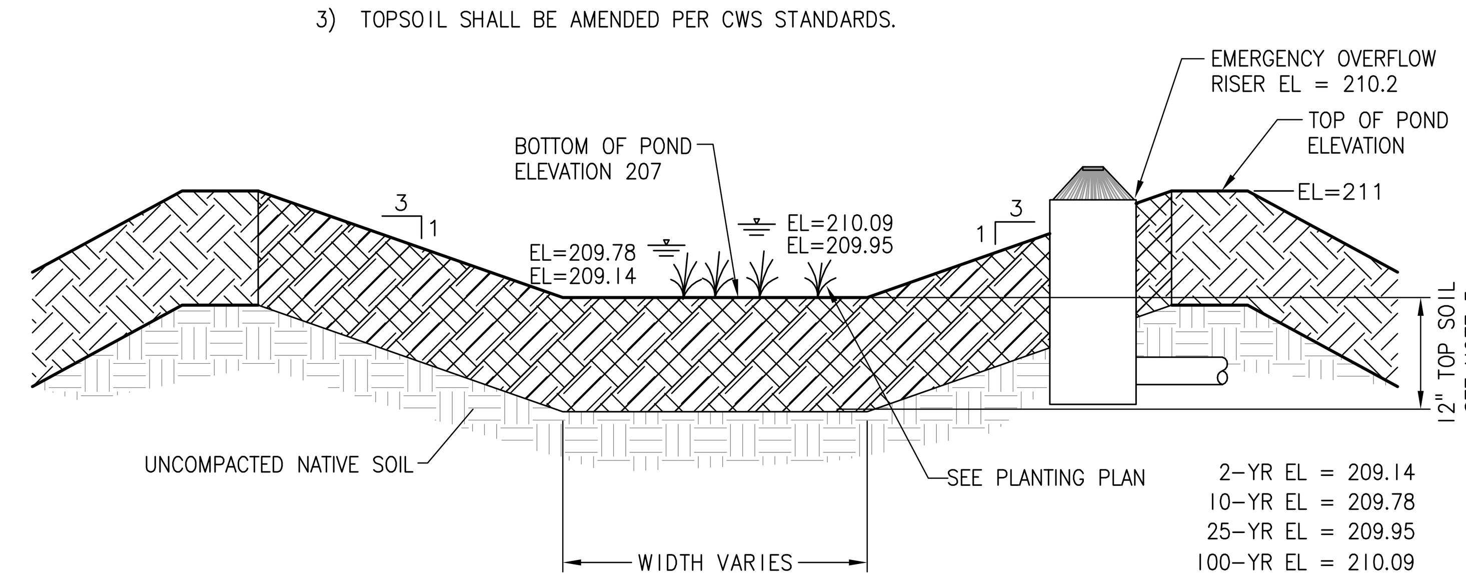
BIRDCAGE GRATE
NTS

NOTES:

1) JUTE MATTING TO BE GEOJUTE PLUS FOR ENTIRE POND AREA UP TO 25 YEAR DETENTION AND ECONOJUTE FROM FREEBOARD AND ABOVE. INSTALL PER MANUFACTURER'S INSTALLATION REQUIREMENTS.

2) SEE LANDSCAPE DRAWINGS FOR FENCE AND PLANTING DETAILS.

3) TOPSOIL SHALL BE AMENDED PER CWS STANDARDS.



EXTENDED DRY BASIN TYPICAL SECTION
NTS

Design Development

REGISTERED PROFESSIONAL ENGINEER 62238PE OREGON JAN 8, 2007 ASHLEY C. SIMONOWITS PRELIMINARY
EXPIRES: 12/31/2012

STORM POND DETAILS

UTILITY DETAILS
Vose K5
Beaverton School District

C2.5
74-15111-10
10/19/2015
REVISIONS

otak
HanmiGlobal Partner
808 SW 3rd Ave., Ste. 300
Portland, OR 97204
Phone: (503) 287-6825
FAX: (503) 415-2304
www.otak.com

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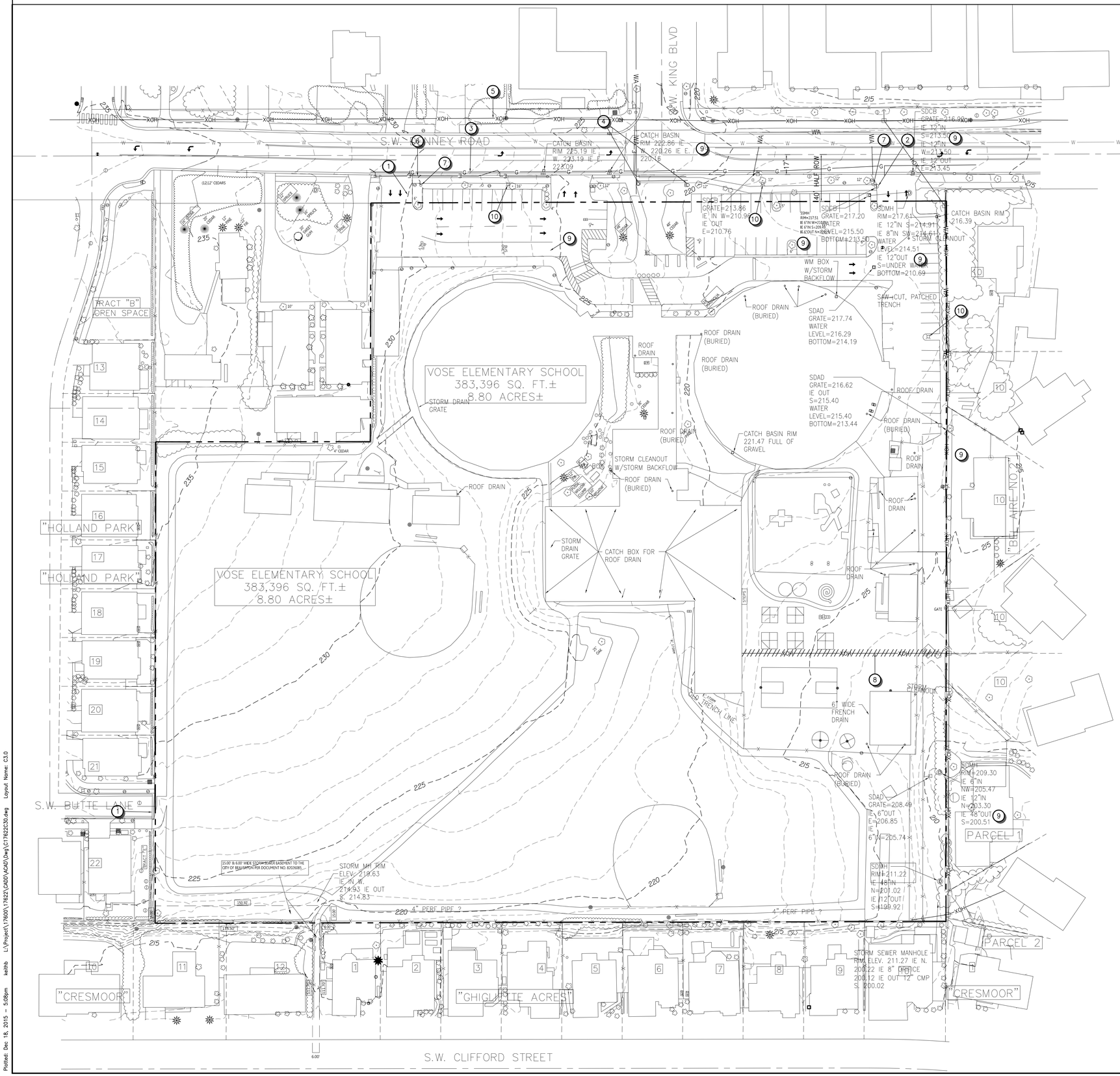

KEYNOTES:

1. EXISTING WATER LINE.
2. EXISTING SANITARY SEWER.
3. EXISTING GAS LINE.
4. EXISTING TRAFFIC SIGNAL POLE.
5. EXISTING OVERHEAD POWER.
6. EXISTING UNDERGROUND POWER.
7. EXISTING HYDRANT.
8. EXISTING OVERHEAD TO BE REMOVED.
9. EXISTING STORM AREA DRAIN / CATCH BASIN TO BE REMOVED.
10. REMOVE EXISTING STREET LIGHT.

LEGEND

	EXISTING
STORM LINE	ST
STORM MANHOLE	
STORM CURB INLET/CATCH BASIN	
SANITARY LINE	
SANITARY MANHOLE	
WATER LINE	WA
FIRE HYDRANT	
OVERHEAD POWER	XOH
UNDERGROUND POWER	E
POWER POLE	
LIGHT POLE	
GAS LINE	G
1' CONTOUR	
5' CONTOUR	230

Design Development

EXPIRES: 12/31/2015

EXISTING CONDITIONS / SITE UTILITY DEMOLITION PLAN
Vose K5
Beaverton School District

C3.0
74-15111-10
10/19/2015
REVISIONS

otak
HanmiGlobal Partner
808 SW 3rd Ave., Ste. 300
Portland, OR 97204
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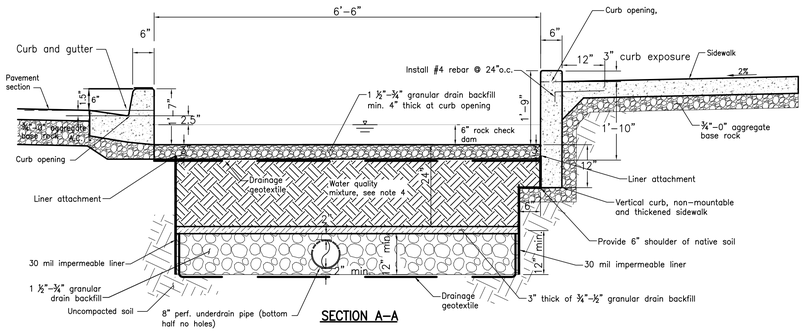
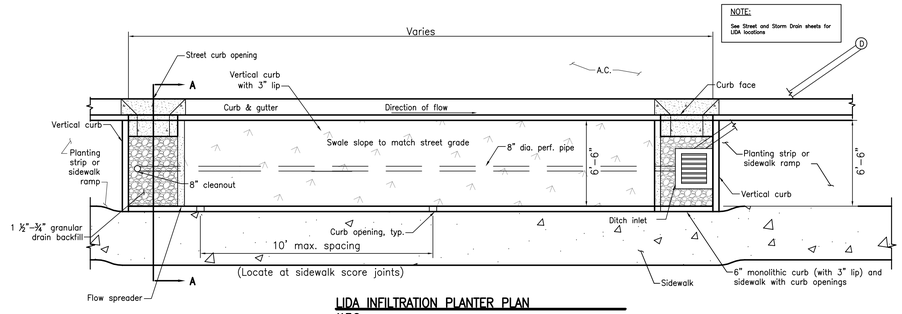
Plotted: Dec 18, 2015 - 5:08pm keithb L:\Project\17600\17622\CADD\Acad\Dwg\C17622C30.dwg Layout Name: C3.0



SECTION A-A

LIDA INFILTRATION PLANTER
N.T.S.



LIDA INFILTRATION PLANTER PLAN
N.T.S.

Design Development

REGISTERED PROFESSIONAL ENGINEER
12,629
OREGON
JUNE 11, 1971
KEITH BUSH
PRELIMINARY
EXPIRES: 12/31/2015

PUBLIC IMPROVEMENTS -
WATER QUALITY FACILITY DETAILS
Vose K5
Beaverton School District

R4.1
74-15111-10
10/19/2015
REVISIONS

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Portland, OR 97204
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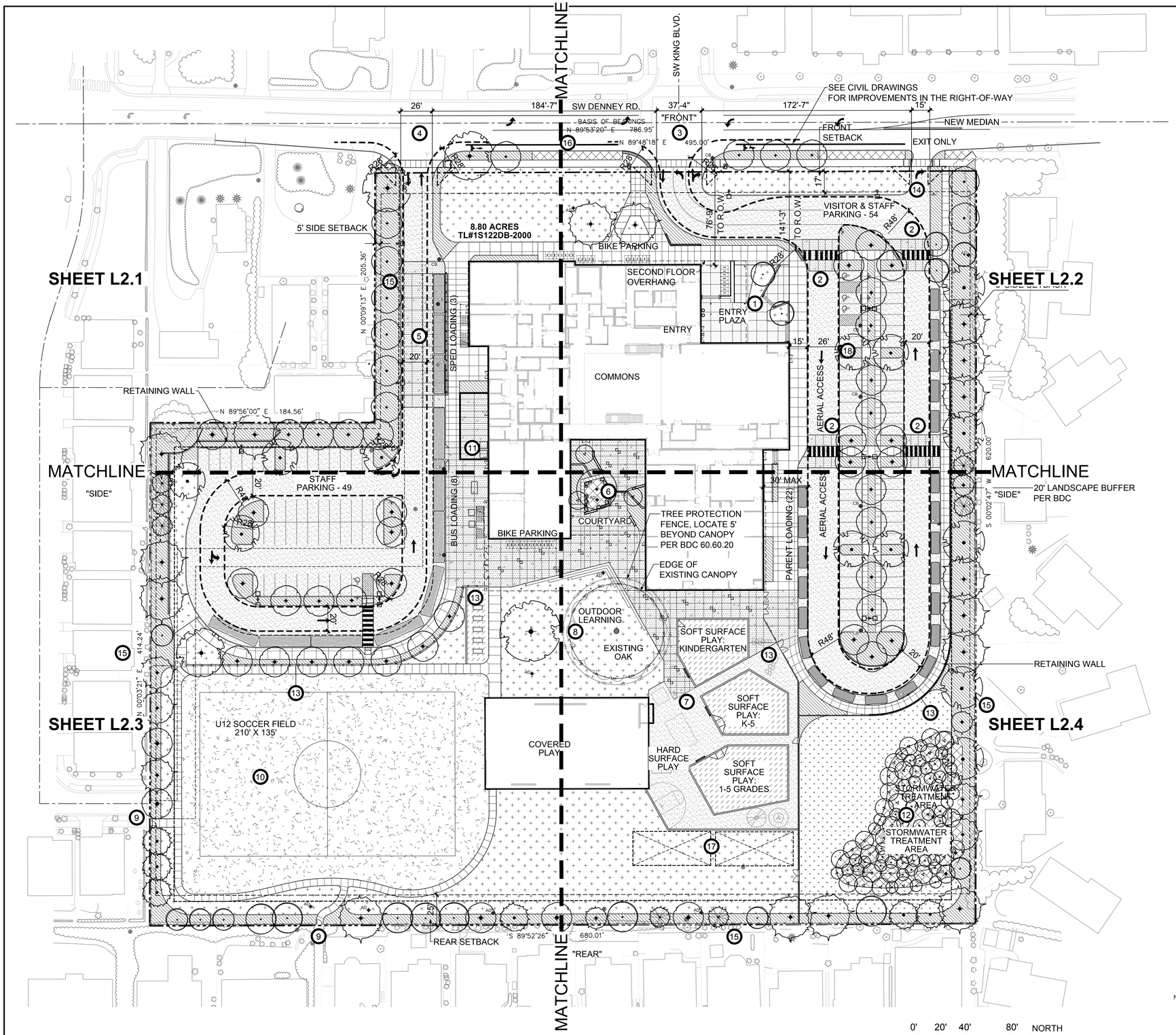

OVERALL SITE PLAN

SCALE 1" = 40'-0"

0' 20' 40' 80'

NORTH

KEY NOTES

1. MAIN ENTRY PLAZA: DECORATIVE CONCRETE PAVING, LANDSCAPE, SEAT WALLS, FURNISHINGS, BIKE PARKING, FLAG POLE, TRASH AND RECYCLING RECEPTACLES, STAIRS, AND METAL HANDRAILS.
2. RAISED CROSSING WITH PAVEMENT MARKINGS
3. PARENT AND VISITOR ENTRY: ADD ADDITIONAL TRAFFIC SIGNAL FOR TRAFFIC ENTERING AND EXITING THE SITE.
4. STAFF AND BUS ENTRY ON DENNEY ROAD DRIVEWAY ENTRANCE PER CITY STANDARD. SEE CIVIL.
5. RAISED DROP OFF WITH PROTECTIVE BOLLARDS FOR SPECIAL EDUCATION
6. OUTDOOR COURTYARD: DECORATIVE HARDSCAPE PAVING, LANDSCAPE, STORMWATER DEMONSTRATION PLANTER, OUTDOOR LEARNING, SEAT WALLS, AND FURNISHINGS.
7. OUTDOOR PLAY AREAS: HARD AND SOFT SURFACE PLAY AREAS WITH PLAYGROUND EQUIPMENT, BALL WALL, BASKETBALL HOOPS, PAVEMENT MARKINGS ETC.
8. EXISTING OAK TREE. CONCRETE SEAT WALLS AND STAIRS TO CREATE OUTDOOR LEARNING AREA. EXISTING GRADES TO BE PRESERVED BENEATH TREE CANOPY
9. PEDESTRIAN CONNECTION TO ADJACENT NEIGHBORHOODS.
10. LAWN ATHLETIC FIELD WITH SUBGRADE DRAINAGE.
11. SERVICE AND DELIVERY AREA ENCLOSED WITH 8' TALL WALL. RECYCLING AND WASTE CONTAINERS
12. STORMWATER TREATMENT FACILITY. FLOW-THROUGH PLANTERS ALONG RIGHT-OF-WAY (SEE CIVIL). DRY DETENTION BASIN AT SE PART OF SITE.
13. CHAIN LINK FENCING: 6'-0" TALL BLACK VINYL COATED.
14. EXIT/RIGHT TURN ONLY.
15. CITY OF BEAVERTON B3 HIGH SCREEN STANDARDS. 20'-0" WIDE BUFFER AT EDGE OF ALL ADJACENT RESIDENTIAL PROPERTIES. 6' TALL SITE OBSCURING FENCE, TREES, AND LANDSCAPE PLANTINGS.
16. DENNEY ROAD IMPROVEMENTS: MOVE SOUTHERN CURB LINE TO MEET CURRENT COLLECTOR STREET STANDARDS. CONSTRUCT NEW CURB AND GUTTER, BIKE LANE, SIDEWALK, AND FLOW-THROUGH PLANTERS. SEE CIVIL FOR IMPROVEMENTS IN THE RIGHT OF WAY.
17. FUTURE PORTABLE CLASS ROOM LOCATIONS
18. THREE (3) CARPOOL PARKING SPACES

GENERAL NOTES

1. ALL SURVEY INFORMATION PROVIDED BY:
   ALPHA COMMUNITY DEVELOPMENT
   9200 SW NIMBUS AVE.
   BEAVERTON, OREGON 97008
   (P): 503-452-8003
   DATED: 03-13-08
2. VERIFY EXACT LOCATIONS AND ROUTING OF EXISTING UNDERGROUND UTILITIES PRIOR TO STARTING EXCAVATION. REPAIR ANY DAMAGE TO EXISTING PIPES, UTILITIES OR RELATED FACILITIES AT CONTRACTOR'S EXPENSE IN A MANNER APPROVED BY OWNER'S REPRESENTATIVE.
3. BARRICADE AND PROTECT TRUNKS, LIMBS, ROOTS AND ROOT ZONES BEYOND DRIPLINE OF EXISTING TREES AND PLANT MATERIALS TO REMAIN AS DIRECTED BY LANDSCAPE ARCHITECT. CUT NO LIMBS OR ROOTS LARGER THAN 2" IN DIAMETER WITHOUT APPROVAL OF LANDSCAPE ARCHITECT. NOTIFY OWNER'S REPRESENTATIVE PRIOR TO PERFORMING ANY EXCAVATION WITHIN PROTECTION AREAS.
4. ALL ACCESSIBLE COMPONENTS INCLUDING, BUT NOT LIMITED TO SIGNS, RAMPS, TACTILE WARNING, MARKINGS, ETC. SHALL CONFORM TO ALL OREGON STATE STANDARDS FOR PARKING AND ACCESS FOR THE DISABLED.

LEGEND

- PROPERTY LINE
- EXISTING TREES TO REMAIN
- PROPOSED TREES
- FUTURE PORTABLE CLASSROOM BUILDING
- N XX°XX'XX" E XXX.XX' PROPERTY LINE DIMENSIONS
- EXISTING ADJACENT BUILDINGS SHOWN FOR REFERENCE ONLY
- FIRE LANE

LAND USE SUBMITTAL

OVERALL SITE PLAN
VOSE ELEMENTARY SCHOOL
BEAVERTON SCHOOL DISTRICT

L2.0

74-15111-10
12/23/2015
REVISIONS

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LANDSCAPE ARCHITECTURE & PLANNING
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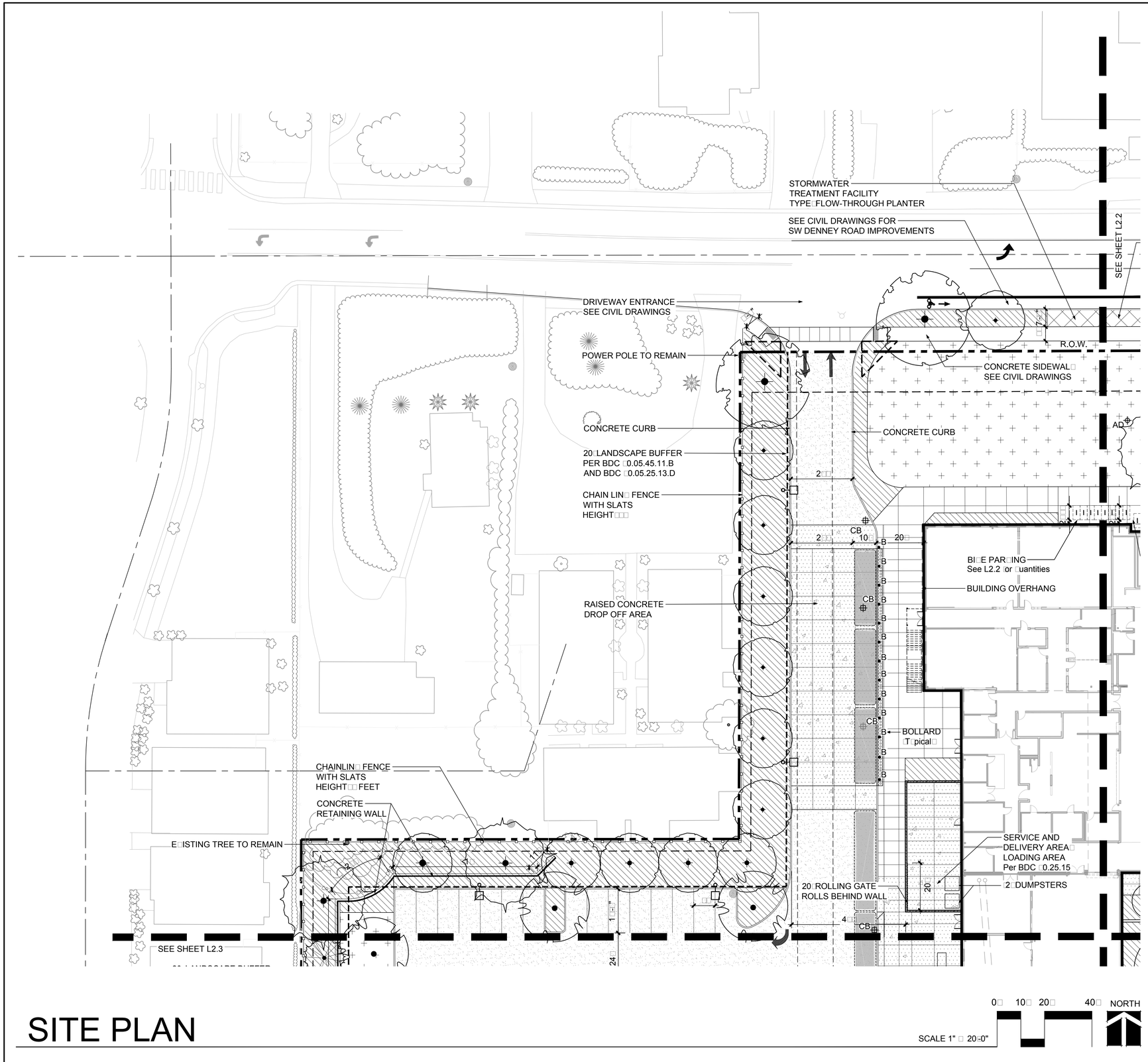
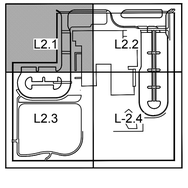


SITE PLAN

LEGEND

- PROPERTY LINE
- MINIMUM SETBACK PER BDC
- CONCRETE RETAINING WALL
- FENCE
- EXISTING TREES TO REMAIN
- PROPOSED TREES DECIDUOUS AND EVERGREEN 2" CAL. MIN (EXCEPT WHERE 2.5" REQUIRED BY CODE)
- VISION CLEARANCE ZONE PER CITY OF BEAVERTON STANDARD (15' x 15')
- STORM WATER LANDSCAPE AREA
- LANDSCAPE AREA
- LAWN AREA
- ATHLETIC FIELD LAWN AREA WITH SUBGRADE DRAINAGE
- CONCRETE PAVING - STANDARD
- VEHICLE REINFORCED CONCRETE PAVING
- ASPHALT PAVING
- SOFT PLAY AREA
- DETECTABLE PAVING 24" LENGTH IN THE DIRECTION OF TRAVEL
- TRASH AND RECYCLING RECEPTACLES OWNER FURNISHED OWNER INSTALLED
- BIKE PARKING
  - HOOP STYLE RACK
  - 18" X 6' FOR EACH BIKE
  - PERMANENTLY ANCHORED
- BOLLARDS
- TRENCH DRAIN, CATCH BASIN, AREA DRAIN
- PROPOSED LIGHTING SEE ELECTRICAL DRAWINGS
- EXISTING TREE CANOPY (CAN) AND 5 FOOT OFFSET (CRZ- CRITICAL ROOT ZONE)
- SCHOOL BUS
- PARENT VEHICLE

SHEET KEY



LAND USE SUBMITTAL

SITE PLAN
VOSE ELEMENTARY SCHOOL
BEAVERTON SCHOOL DISTRICT

L2.1
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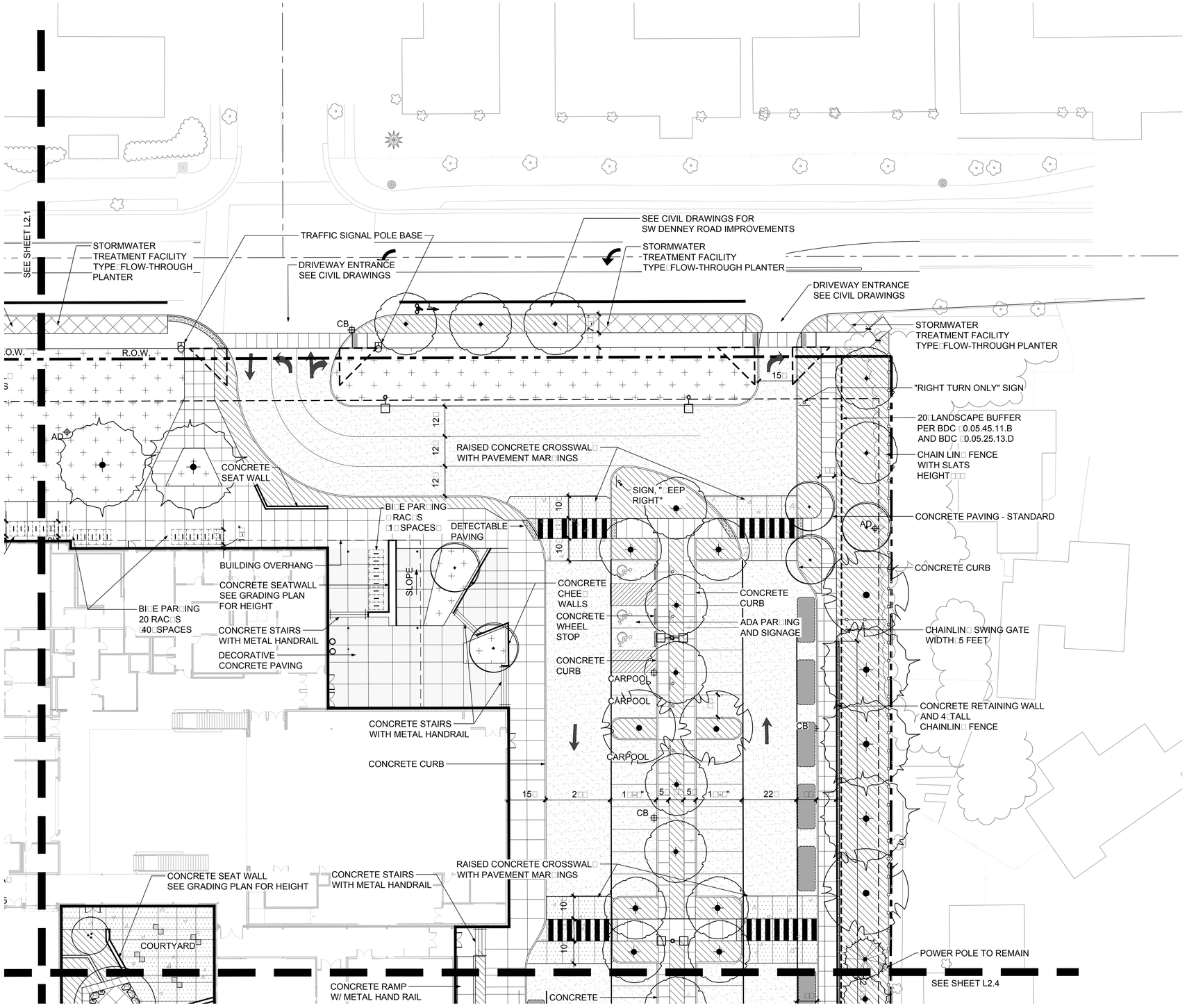

SITE PLAN

SCALE 1" 20'-0"

0 10 20 40 NORTH

LEGEND

- PROPERTY LINE
- MINIMUM SETBACK PER BDC
- CONCRETE RETAINING WALL
- FENCE
- EXISTING TREES TO REMAIN
- PROPOSED TREES DECIDUOUS AND EVERGREEN 2" CAL. MIN (EXCEPT WHERE 2.5" REQUIRED BY CODE)
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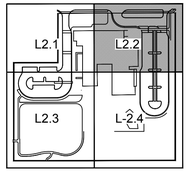
  - PERMANENTLY ANCHORED
- B B BOLLARDS
- AD TD CB TRENCH DRAIN, CATCH BASIN, AREA DRAIN
- PROPOSED LIGHTING SEE ELECTRICAL DRAWINGS
- CAN CRZ EXISTING TREE CANOPY (CAN) AND 5 FOOT OFFSET (CRZ- CRITICAL ROOT ZONE)
- SCHOOL BUS
- PARENT VEHICLE

SHEET KEY



LAND USE SUBMITTAL

SITE PLAN
VOSE ELEMENTARY SCHOOL
BEAVERTON SCHOOL DISTRICT

L2.2

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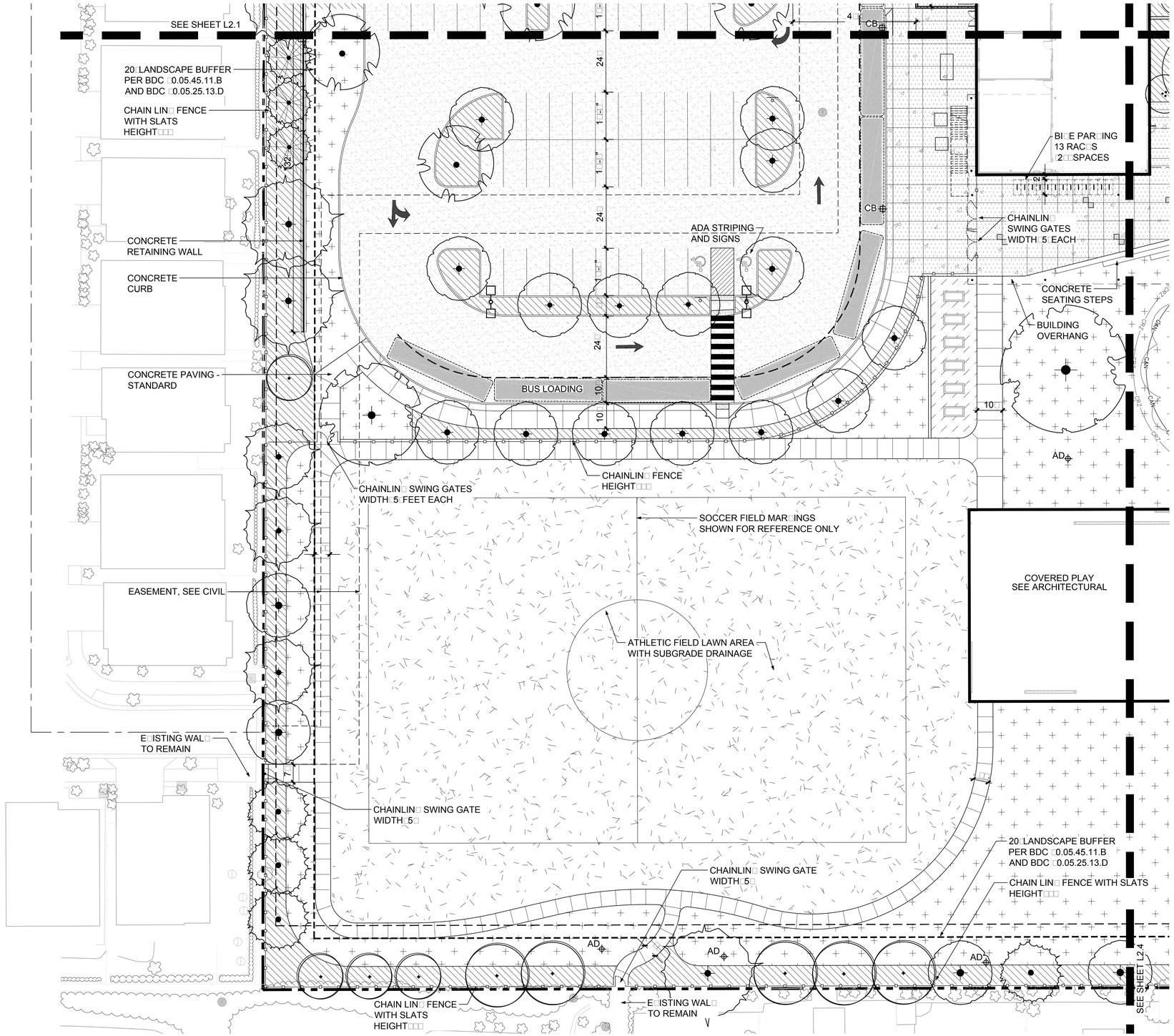

SITE PLAN

SCALE 1" 20'-0"

0 10 20 40 NORTH

LEGEND

- PROPERTY LINE
- MINIMUM SETBACK PER BDC
- CONCRETE RETAINING WALL
- FENCE
- EXISTING TREES TO REMAIN
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- STORM WATER LANDSCAPE AREA
- LANDSCAPE AREA
- LAWN AREA
- ATHLETIC FIELD LAWN AREA WITH SUBGRADE DRAINAGE
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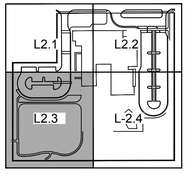
SHEET EY



LAND USE SUBMITTAL

SITE PLAN
VOSE ELEMENTARY SCHOOL
BEAVERTON SCHOOL DISTRICT

L2.3

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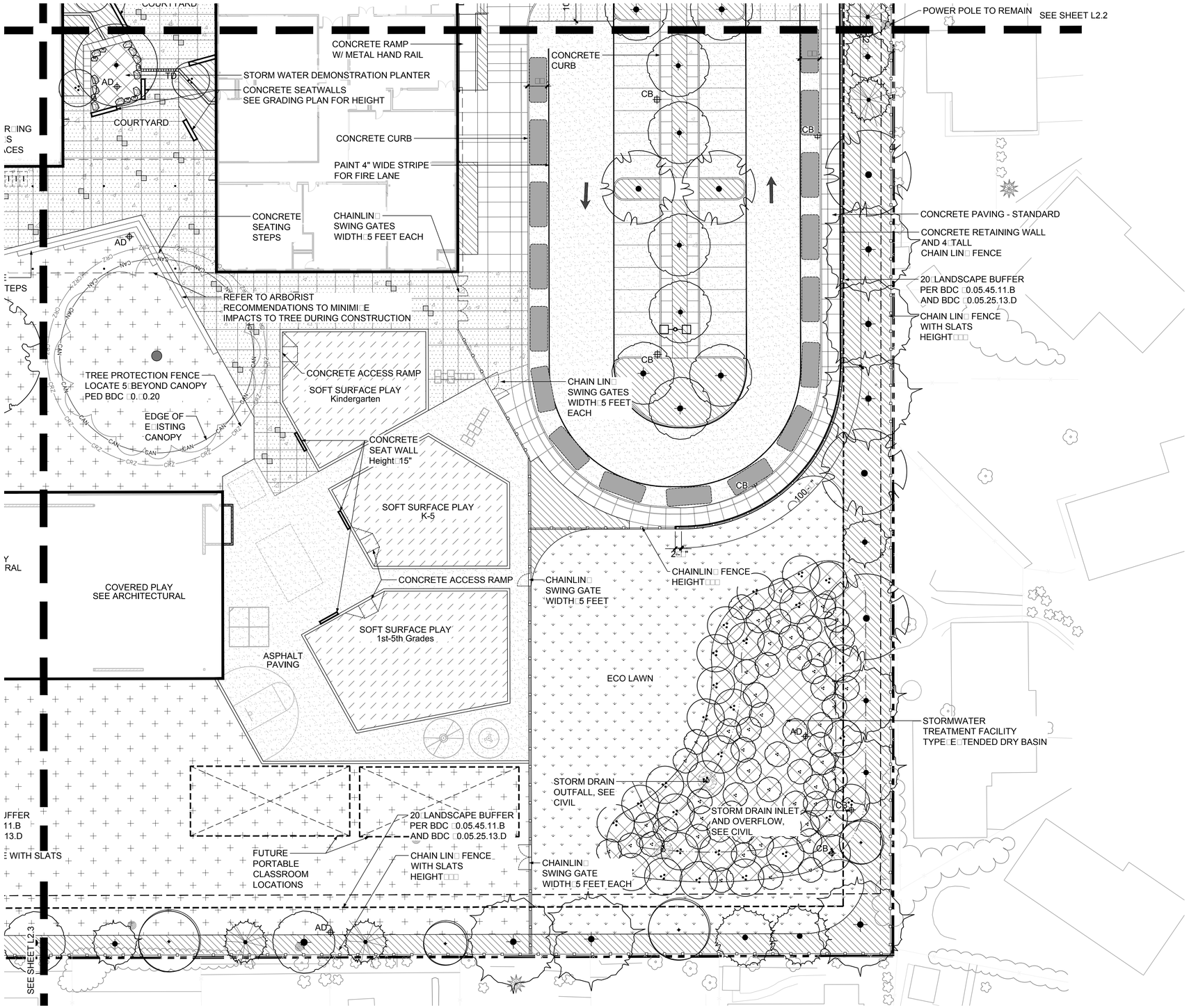

SITE PLAN

SCALE 1" 20'-0"

0 10 20 40 NORTH

LEGEND

- PROPERTY LINE
- MINIMUM SETBACK PER BDC
- CONCRETE RETAINING WALL
- FENCE
- EXISTING TREES TO REMAIN
- PROPOSED TREES DECIDUOUS AND EVERGREEN 2" CAL. MIN (EXCEPT WHERE 2.5" REQUIRED BY CODE)
- VISION CLEARANCE ZONE PER CITY OF BEAVERTON STANDARD (15' / 15')
- STORM WATER LANDSCAPE AREA
- LANDSCAPE AREA
- LAWN AREA
- ATHLETIC FIELD LAWN AREA WITH SUBGRADE DRAINAGE
- CONCRETE PAVING - STANDARD
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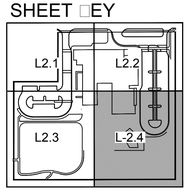
  - PERMANENTLY ANCHORED
- B B — BOLLARDS
- AD TD CB — TRENCH DRAIN, CATCH BASIN, AREA DRAIN
- PROPOSED LIGHTING SEE ELECTRICAL DRAWINGS
- CAN / CRZ — EXISTING TREE CANOPY (CAN) AND 5 FOOT OFFSET (CRZ- CRITICAL ROOT ZONE)
- SCHOOL BUS
- PARENT VEHICLE

SHEET KEY



LAND USE SUBMITTAL

SITE PLAN
VOSE ELEMENTARY SCHOOL
BEAVERTON SCHOOL DISTRICT

L2.4

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12/23/2015
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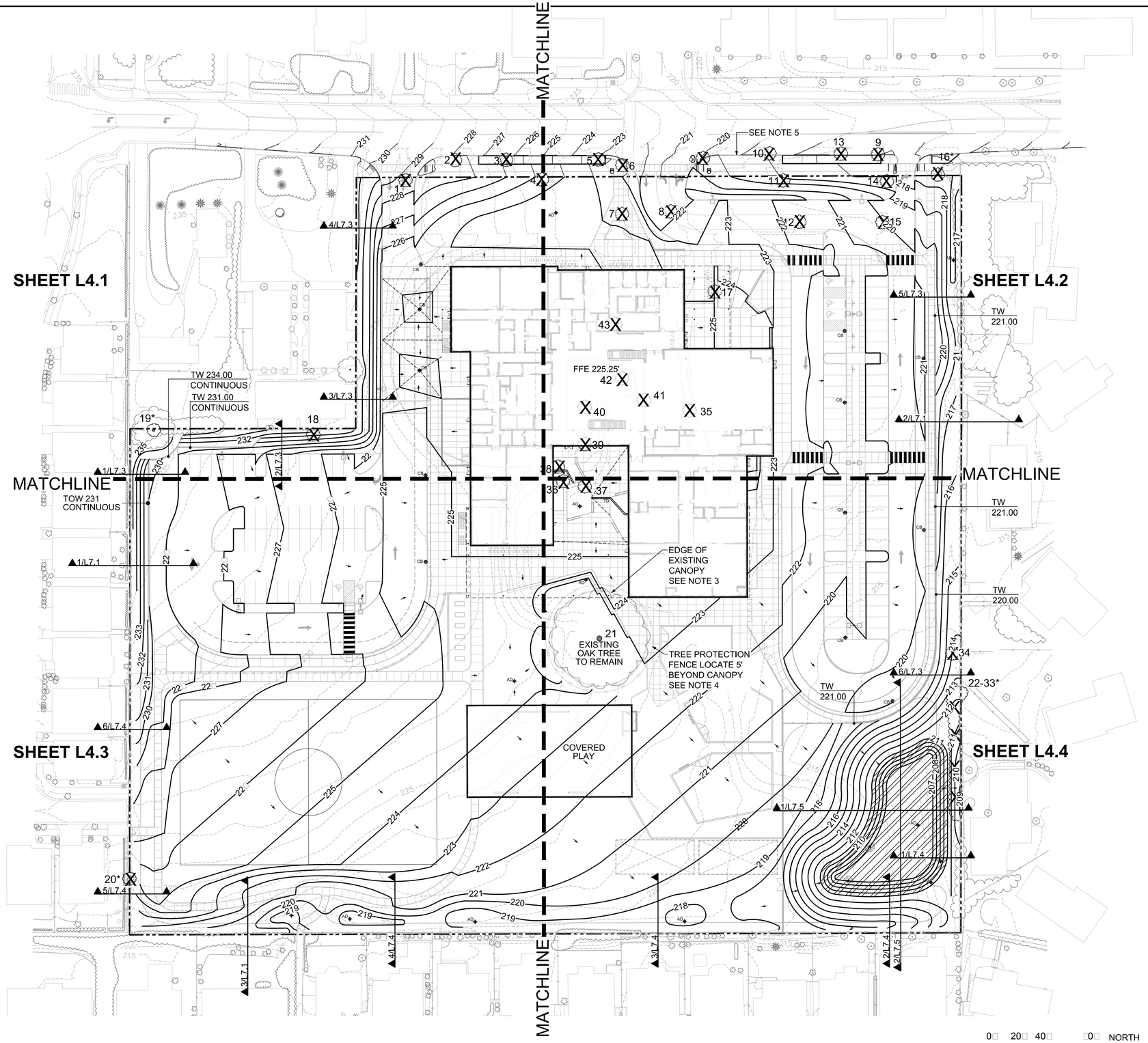

OVERALL GRADING PLAN

SCALE 1" = 40'-0"

NORTH

GENERAL NOTES

1. ALL SURVEY INFORMATION PROVIDED BY:
   ALPHA COMMUNITY DEVELOPMENT
   [illegible]200 SW NIMBUS AVE
   BEAVERTON, OR [illegible]700[illegible]
   PL 503-452-[illegible]003
   DATED: 03-13-0[illegible]
2. ALL ACCESSIBLE COMPONENTS INCLUDING, BUT NOT LIMITED TO, SIGNS, RAMPS, TACTILE WARNINGS, MAR[illegible]INGS, ETC. SHALL CONFORM TO OREGON STATE STANDARDS FOR PAR[illegible]ING AND ACCESS FOR THE DISABLED.
3. TREE CANOPY SHOWN IS APPRO[illegible]IMATE AND DETERMINED FROM AERIAL IMAGES. PRIOR TO CONSTRUCTION TREE CANOPY TO BE SURVEYED AND VERIFIED IN THE FIELD.
4. TREE PROTECTION FENCE TO MEET RE[illegible]UIREMENTS OF [illegible]0.[illegible]0.20. WITHIN THE PROTECTED ROOT [illegible]ONE AREA NO CONSTRUCTION, GRADING WOR[illegible] [illegible]E[illegible]CEPT WHERE HAND E[illegible]CAVATION IS APPROVED WITH THE SUBMITTAL OF AN ARBORIST'S REPORT[illegible] NEW IMPERVIOUS SURFACE, TRENCHING, STAGING, OR STORAGE OF ANY [illegible]IND, VEHICLE MANEUVERING, OR PAR[illegible]ING.
5. ALL GRADING SHOWN IN THE DENNEY ROAD RIGHT OF WAY IS FOR REFERENCE ONLY. SEE CIVIL FOR RIGHT OF WAY IMPROVEMENTS.

LEGEND

- EXISTING TREES TO BE REMAIN
- 45 — EXISTING TREES OVER 6" DBH TO BE REMOVED
  PLANT ID NUMBER REFERENCES
  SCHEDULE OF EXISTING TREES ON SHEET L5.0
  (NOTE: #'s with an * not included in the survey and located based on arborist report)
- 235 — EXISTING CONTOUR (1' INTERVAL)
- 220 — NEW CONTOUR (1' INTERVAL)
- TW — TOP OF WALL ELEVATION
- SECTION CUTS
  REFER TO SHEETS L7.1, L7.3, L7.4, L7.5

LAND USE
SUBMITTAL

OVERALL GRADING PLAN
VOSE ELEMENTARY SCHOOL
BEAVERTON SCHOOL DISTRICT

L4.0
74-15111-10
12/23/2015
REVISIONS

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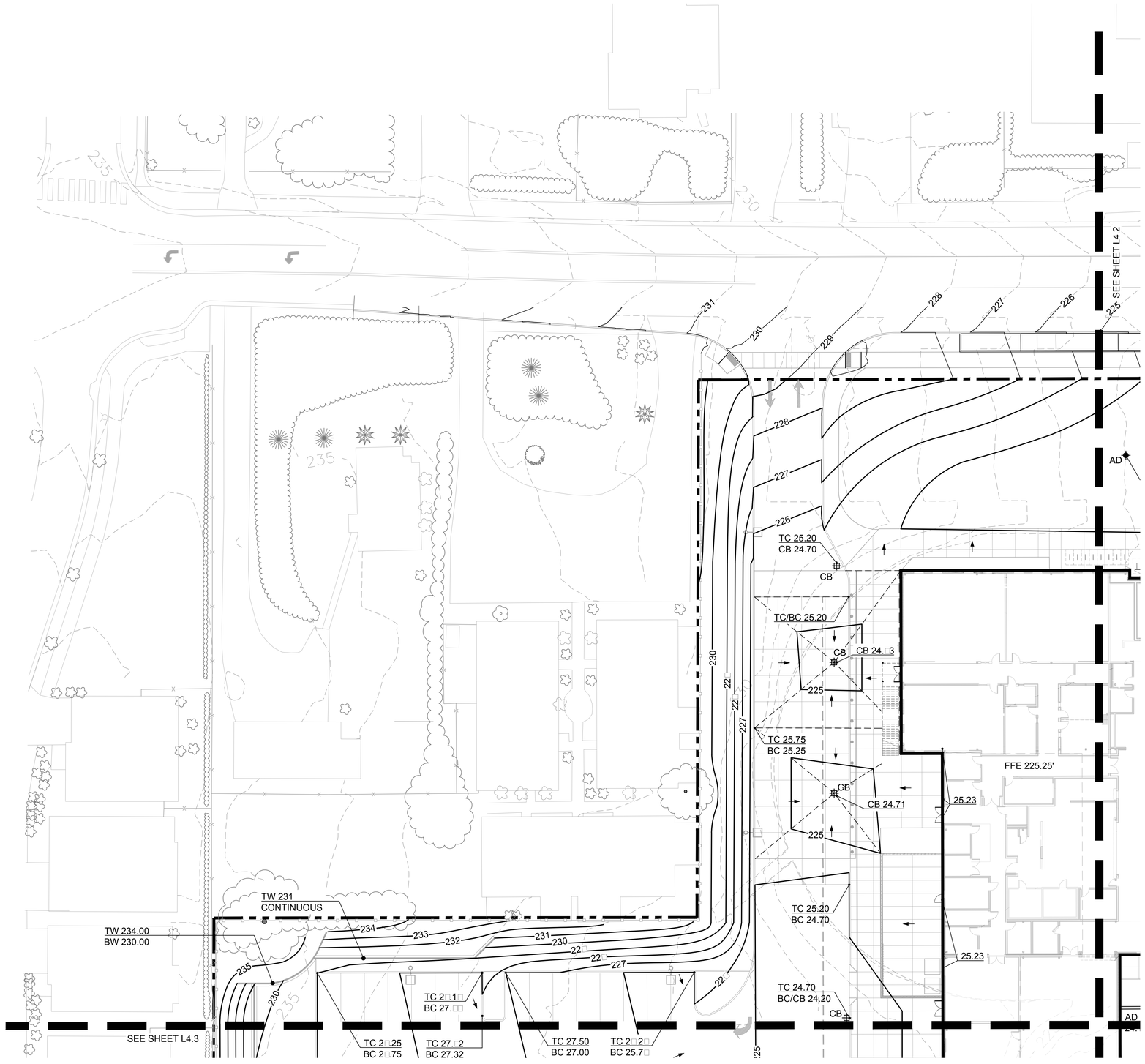


LEGEND

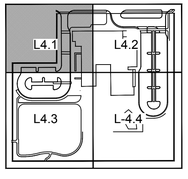
- PROPERTY LINE
- CONCRETE RETAINING WALL
- FFE — FINISH FLOOR ELEVATION
- 235 — EXISTING CONTOUR (1' INTERVAL)
- 222 — NEW CONTOUR (1' INTERVAL)
- SPOT ELEVATION
- TC / BC — TOP OF CURB ELEVATION ELEVATION / BOTTOM OF CURB
- TW / BW — TOP OF WALL ELEVATION / BOTTOM OF WALL ELEVATION
- TS / BS — TOP OF STAIR ELEVATION / BOTTOM OF STAIR ELEVATION
- CB RIM — CATCH BASIN RIM ELEVATION
- AD RIM — AREA DRAIN RIM ELEVATION
- DD RIM — DECK DRAIN RIM ELEVATION
- TD RIM — TRENCH DRAIN RIM ELEVATION
- BREAK IN PLANE ARROW INDICATES DIRECTION OF FLOW

GRADING PLAN

SCALE 1" = 20'-0"

0 10 20 40 NORTH

SHEET KEY



LAND USE SUBMITTAL

GRADING PLAN
VOSE ELEMENTARY SCHOOL
BEAVERTON SCHOOL DISTRICT

L4.1
74-15111-10
12/23/2015
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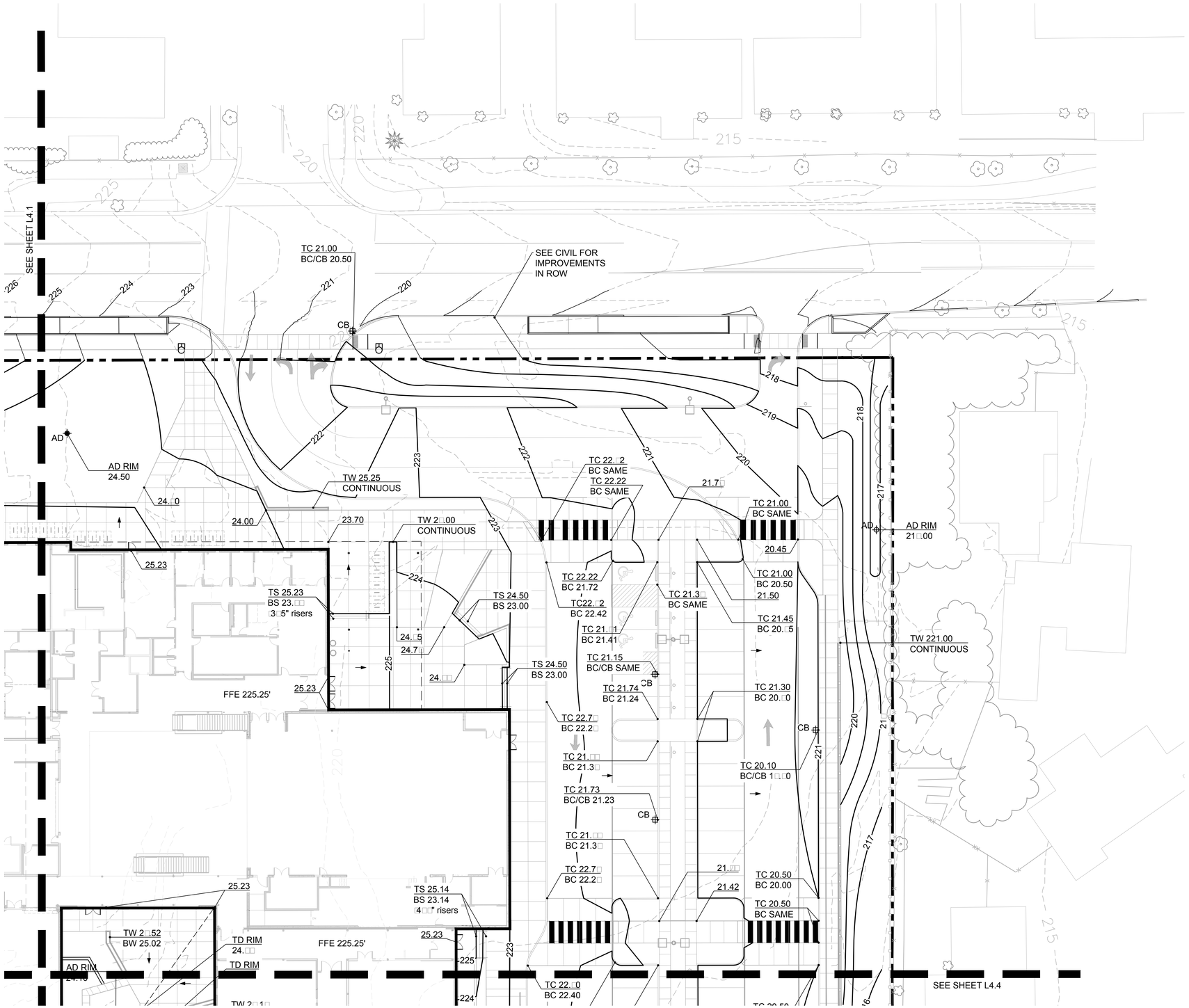

GRADING PLAN

SCALE 1" = 20'-0"

0' 10' 20' 40' NORTH

LEGEND

- PROPERTY LINE
- CONCRETE RETAINING WALL
- FFE — FINISH FLOOR ELEVATION
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- CB RIM — CATCH BASIN RIM ELEVATION
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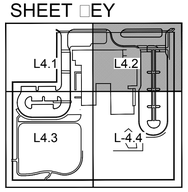
- DD RIM — DECK DRAIN RIM ELEVATION
- TD RIM — TRENCH DRAIN RIM ELEVATION
- BREAK IN PLANE ARROW INDICATES DIRECTION OF FLOW

SHEET KEY



LAND USE SUBMITTAL

GRADING PLAN
VOSE ELEMENTARY SCHOOL
BEAVERTON SCHOOL DISTRICT

L4.2

74-15111-10
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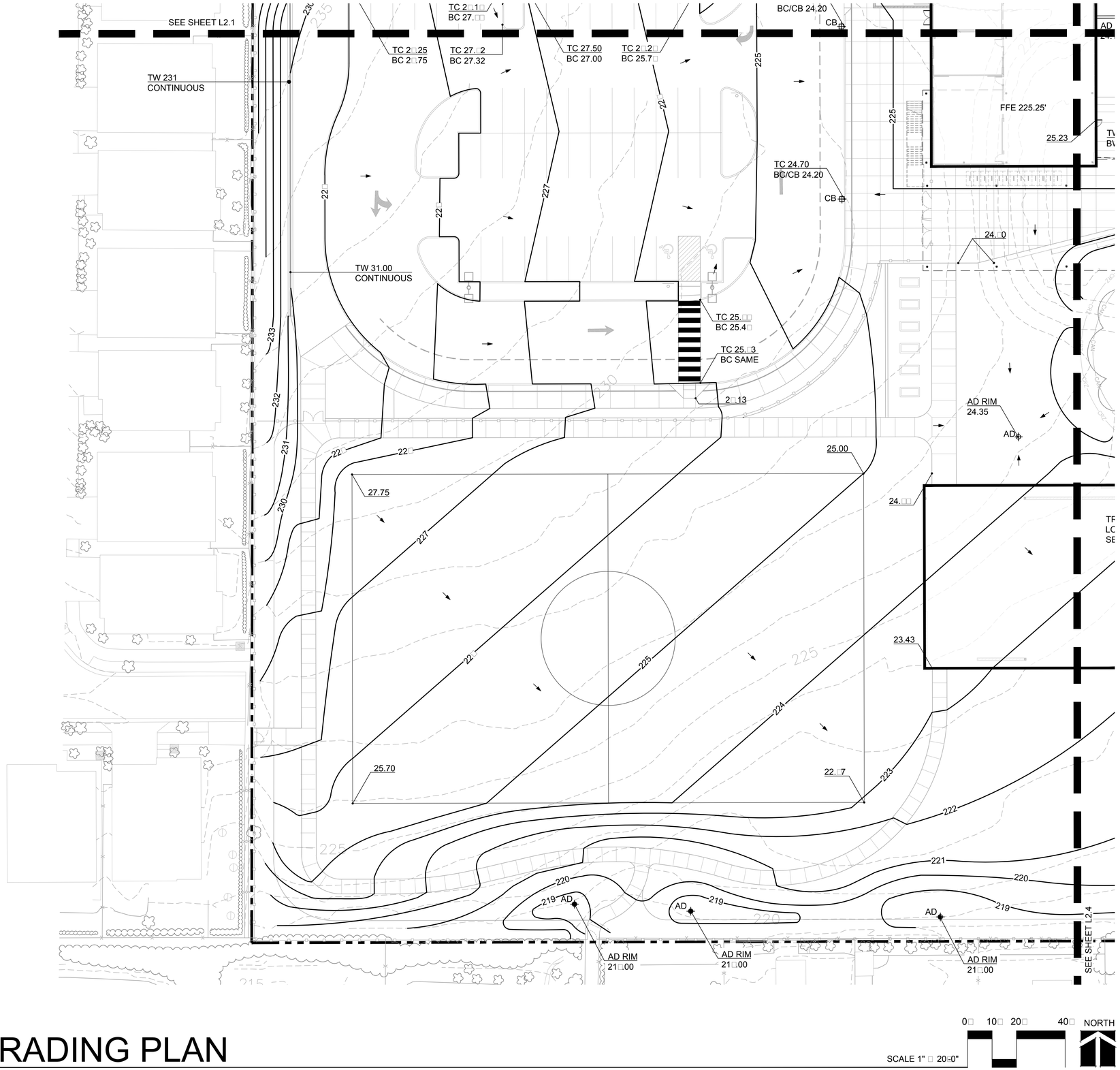


LEGEND

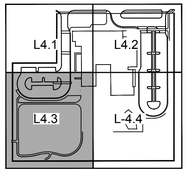
— — —	PROPERTY LINE
═══	CONCRETE RETAINING WALL
FFE	FINISH FLOOR ELEVATION
--235--	EXISTING CONTOUR (1' INTERVAL)
—222—	NEW CONTOUR (1' INTERVAL)
□□□.□□	SPOT ELEVATION
TC □□□.□□ / BC □□□.□□	TOP OF CURB ELEVATION ELEVATION / BOTTOM OF CURB
TW □□□.□□ / BW □□□.□□	TOP OF WALL ELEVATION / BOTTOM OF WALL ELEVATION
TS □□□.□□ / BS □□□.□□	TOP OF STAIR ELEVATION / BOTTOM OF STAIR ELEVATION
CB RIM □□□.□□	CATCH BASIN RIM ELEVATION
AD RIM □□□.□□	AREA DRAIN RIM ELEVATION
DD RIM □□□.□□	DECK DRAIN RIM ELEVATION
TD RIM □□□.□□	TRENCH DRAIN RIM ELEVATION
	BREAK IN PLANE ARROW INDICATES DIRECTION OF FLOW

GRADING PLAN

SCALE 1" □ 20□0"

0□ 10□ 20□ 40□ NORTH

SHEET □EY



LAND USE SUBMITTAL

GRADING PLAN
VOSE ELEMENTARY SCHOOL
BEAVERTON SCHOOL DISTRICT

L4.3

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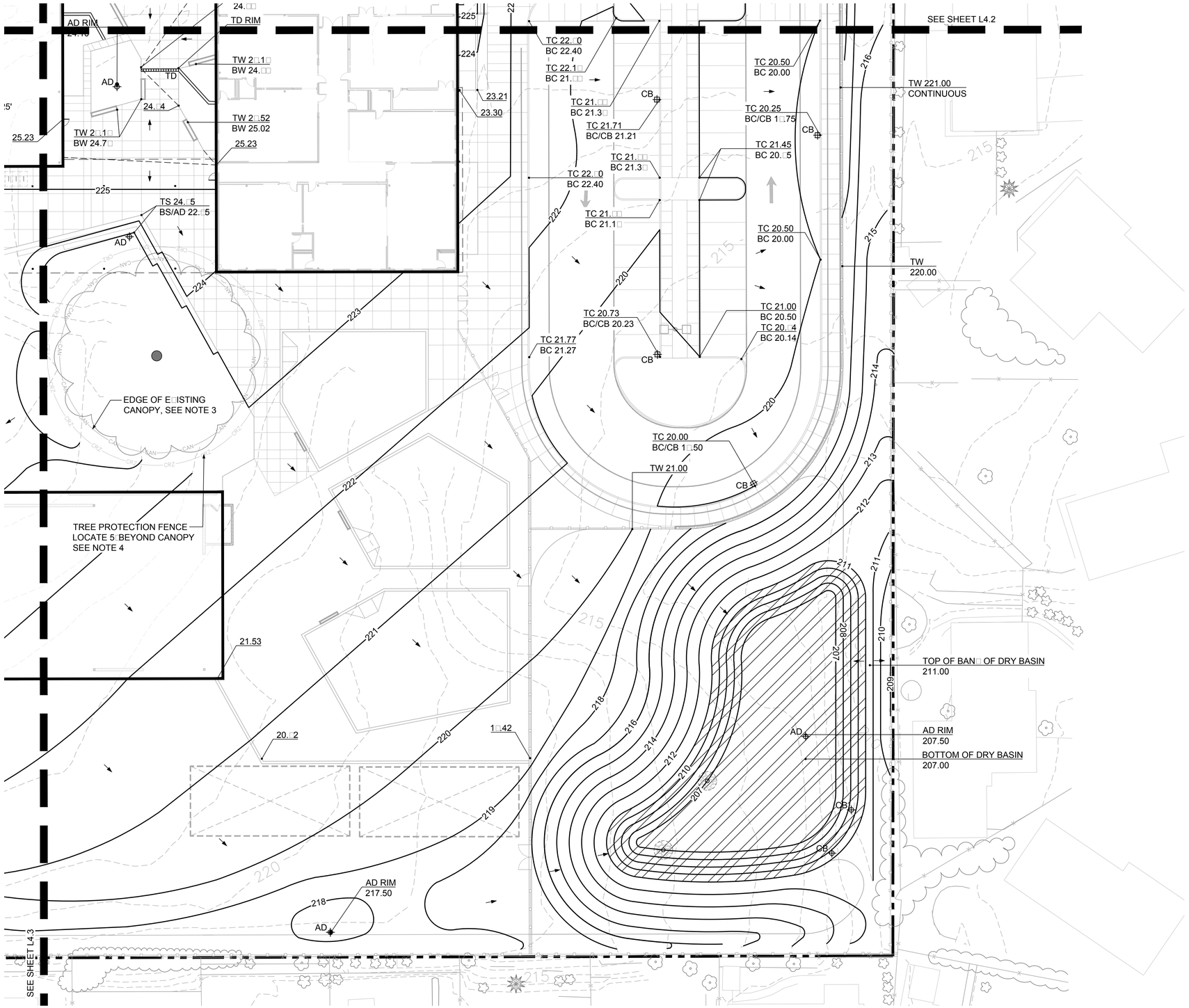

LEGEND

- PROPERTY LINE
- CONCRETE RETAINING WALL
- FFE — FINISH FLOOR ELEVATION
- 235 — EXISTING CONTOUR (1' INTERVAL)
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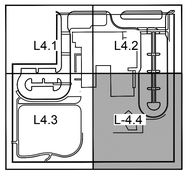
- TD RIM — TRENCH DRAIN RIM ELEVATION
- BREAK IN PLANE ARROW INDICATES DIRECTION OF FLOW

GRADING PLAN

SCALE 1" = 20'-0"

0 10 20 40 NORTH

SHEET KEY



LAND USE SUBMITTAL

GRADING PLAN
VOSE ELEMENTARY SCHOOL
BEAVERTON SCHOOL DISTRICT

L4.4

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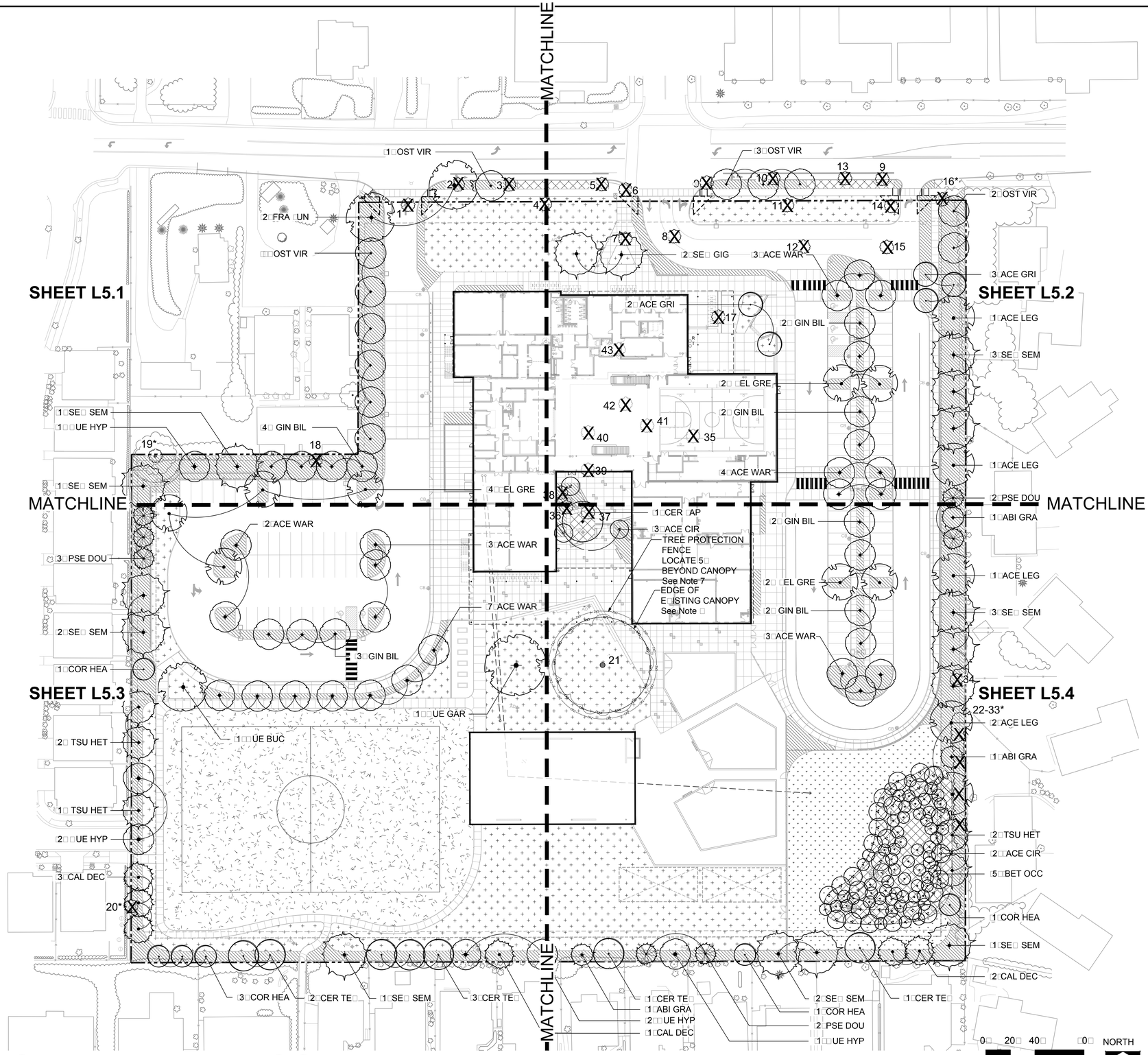

OVERALL LANDSCAPE PLAN

GENERAL NOTES

1. ALL SURVEY INFORMATION PROVIDED BY:
   ALPHA COMMUNITY DEVELOPMENT
   [illegible]200 SW NIMBUS AVE.
   BEAVERTON, OREGON [illegible]700[illegible]
   [illegible]P: [illegible]503-452-[illegible]003
   DATED: [illegible]03-13-0[illegible]
2. BARRICADE AND PROTECT TRUN[illegible]S, LIMBS, ROOTS AND ROOT [illegible]ONES BEYOND DRIPLINE OF E[illegible]ISTING TREES AND PLANT MATERIALS TO REMAIN AS DIRECTED BY LANDSCAPE ARCHITECT. CUT NO LIMBS OR ROOTS LARGER THAN 2" IN DIAMETER WITHOUT APPROVAL OF LANDSCAPE ARCHITECT. NOTIFY LANDSCAPE ARCHITECT PRIOR TO PERFORMING ANY E[illegible]CAVATION WITHIN PROTECTION AREAS.
3. NO SIGNIFICANT TREE RESOURCES OR SIGNIFICANT INDIVIDUAL TREES ARE LOCATED ON THE PRO[illegible]ECT SITE BASED ON THE CITY OF BEAVERTON TREE INVENTORY MAP DATED APRIL 30, 200[illegible].
4. AN AUTOMATIC IRRIGATION SYSTEM WILL BE INSTALLED AT ALL LAWN AND LANDSCAPE AREAS.
5. TREES PLANTED WITHIN RE[illegible]UIRED PAR[illegible]ING LOT LANDSCAPE PLANTER ISLANDS WILL BE OF A TYPE IDENTIFIED IN THE CITY OF BEAVERTON STREET TREE LIST.
6. TREE CANOPY SHOWN IS APPRO[illegible]IMATE AND DETERMINED FROM AERIAL IMAGES. PRIOR TO CONSTRUCTION TREE CANOPY TO BE SURVEYED AND VERIFIED IN THE FIELD.
7. TREE PROTECTION FENCE TO MEET RE[illegible]UIREMENTS OF BDC [illegible]0.[illegible]0.20. WITHIN THE PROTECTED ROOT [illegible]ONE AREA NO CONSTRUCTION, GRADING WOR[illegible] E[illegible]CEPT WHERE HAND E[illegible]CAVATION IS APPROVED WITH THE SUBMITTAL OF AN ARBORIST'S REPORT. NEW IMPERVIOUS SURFACE, TRENCHING, STAGING OR STORAGE OF ANY [illegible]IND, VEHICLE MANEUVERING OR PAR[illegible]ING.

LEGEND

- PROPERTY LINE
- MINIMUM SETBACK PER BDC
- 45 — EXISTING TREES TO BE REMAIN REFER TO SCHEDULE OF EXISTING TREES
- 45 — EXISTING TREES TO BE REMOVED REFER TO SCHEDULE OF EXISTING TREES
- PROPOSED TREES REFER TO L5.5 FOR PLANT LIST

SCHEDULE OF E[illegible]ISTING TREES

Plan ID	Genus & Species	Common Name	DBH	Action
1	Acer rubrum	Red Maple	11"	remove
2	Acer rubrum	Red Maple	4"	remove
3	Acer platanoides	Norway Maple	19"	remove
4	Acer Rubrum	Red Maple	6"	remove
5	Acer platanoides	Norway Maple	13"	remove
6	Acer platanoides	Norway Maple	13"	remove
7	Sequoiadendron giganteum	Giant Sequoia	64"	remove
8	Sequoiadendron giganteum	Giant Sequoia	58"	remove
9	Acer platanoides	Norway Maple	14"	remove
10	Acer platanoides	Norway Maple	14"	remove
11	Acer rubrum	Red Maple	8"	remove
12	Acer rubrum	Red Maple	11"	remove
13	Acer platanoides	Norway Maple	14"	remove
14	Acer rubrum	Red Maple	7"	remove
15	Acer rubrum	Red Maple	13"	remove
16	Acer platanoides	Norway Maple	7"	remove
17	Magnolia x soulangeana	Saucer Magnolia	15"	remove
18	Thuja plicata	Western Red Cedar	12"	remove
19	Prunus avium	Bird Cherry	12"	protect
20	Quercus paluistris	Pin Oak	10"	remove
21	Quercus garryana	Oregon White Oak	53"	protect
22	Pinus sylvestris	Scots Pine	10"	remove
23	Calocedrus decurrens	Incense Cedar	16"	remove
24	Calocedrus decurrens	Incense Cedar	13"	remove
25	Calocedrus decurrens	Incense Cedar	13"	remove
26	Calocedrus decurrens	Incense Cedar	12"	remove
27	Calocedrus decurrens	Incense Cedar	13"	remove
28	Calocedrus decurrens	Incense Cedar	13"	remove
29	Calocedrus decurrens	Incense Cedar	9"	remove
30	Calocedrus decurrens	Incense Cedar	8"	remove
31	Calocedrus decurrens	Incense Cedar	8"	remove
32	Calocedrus decurrens	Incense Cedar	8"	remove
33	Pinus sylvestris	Scots Pine	11"	remove
34	Pinus sylvestris	Scots Pine	10"	remove
35	Pinus sylvestris	Scots Pine	19"	remove
36	Salix discolor	Deciduous	9"	remove
37	Salix babylonia	Weeping Willow	19"	remove
38	Pseudotsuga menziesii	Douglas Fir	17"	remove
39	Pseudotsuga menziesii	Douglas Fir	10"	remove
40	Sequoiadendron giganteum	Giant Sequoia	48"	remove
41	Sequoiadendron giganteum	Giant Sequoia	47"	remove
42	Sequoiadendron giganteum	Giant Sequoia	16"	remove
43	Pinus ponderosa	Ponderosa Pine	26"	remove

LAND USE SUBMITTAL

OVERALL LANDSCAPE PLAN
VOSE ELEMENTARY SCHOOL
BEAVERTON SCHOOL DISTRICT

L5.0
74-15111-10
12/23/2015
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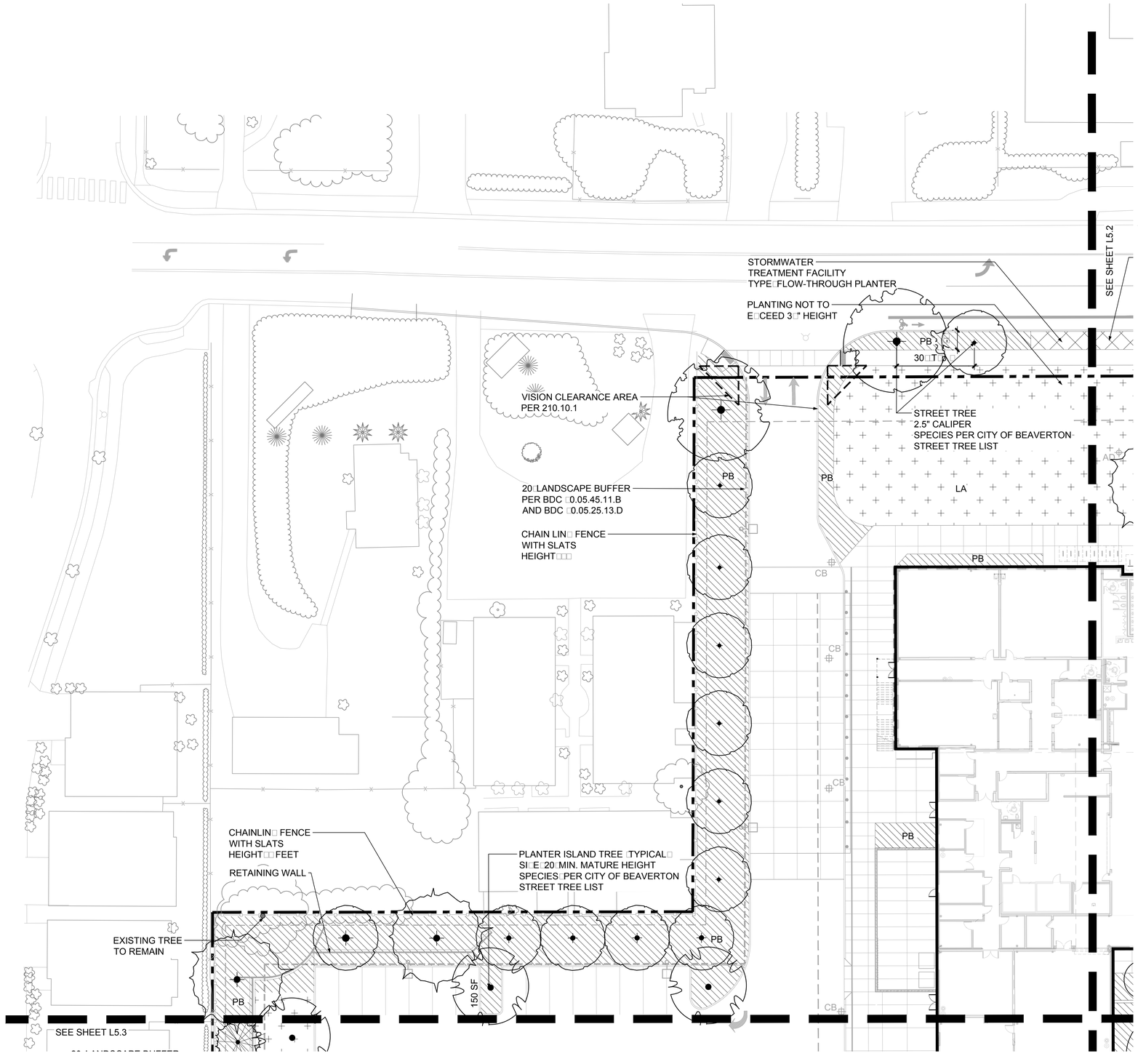


LEGEND

- PROPERTY LINE
- MINIMUM SETBACK PER BDC
- CONCRETE RETAINING WALL
- CHAINLINK FENCE BLACK VINYL COATED
- EXISTING TREES TO REMAIN
- PROPOSED TREES
- VISION CLEARANCE ZONE PER CITY OF BEAVERTON STANDARD (15' x 15')
- SW — STORM WATER LANDSCAPE AREA
- PB — PLANT BED WITH BARK MULCH
- LA — LAWN AREA
- AF — ATHLETIC FIELD LAWN AREA
- PROPOSED LIGHTING SEE ELECTRICAL

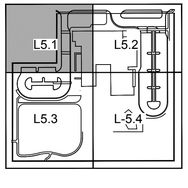
LANDSCAPE PLAN

SCALE 1" 20 0"

0 10 20 40

NORTH

SHEET EY



LAND USE SUBMITTAL

LANDSCAPE PLAN
VOSE ELEMENTARY SCHOOL
BEAVERTON SCHOOL DISTRICT

L5.1

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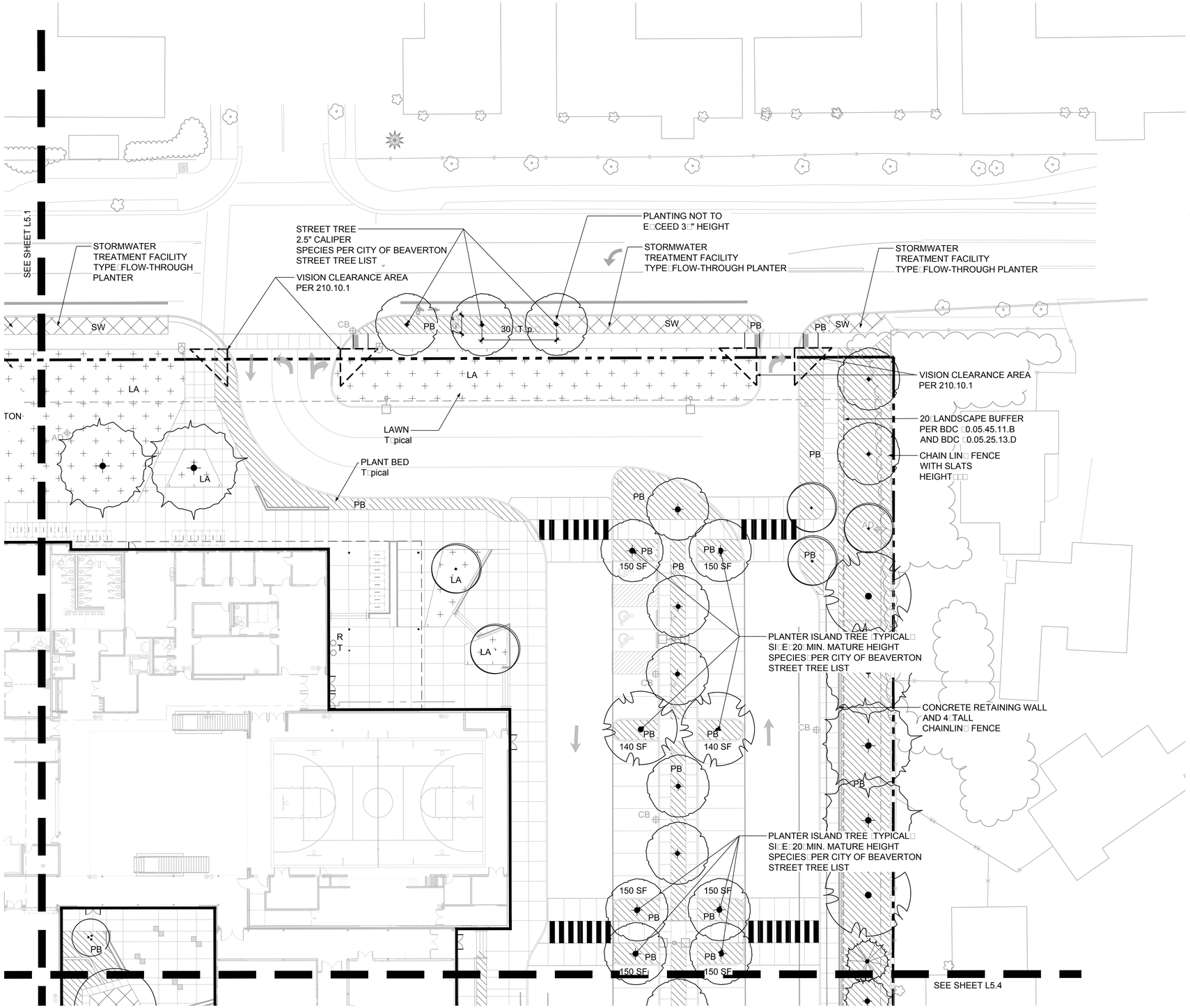

LEGEND

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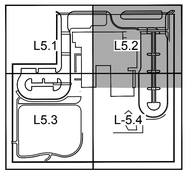
- LA — LAWN AREA
- AF — ATHLETIC FIELD LAWN AREA
- PROPOSED LIGHTING SEE ELECTRICAL

LANDSCAPE PLAN

SCALE 1" = 20'-0"

0' 10' 20' 40' NORTH

SHEET KEY



LAND USE SUBMITTAL

LANDSCAPE PLAN
VOSE ELEMENTARY SCHOOL
BEAVERTON SCHOOL DISTRICT

L5.2

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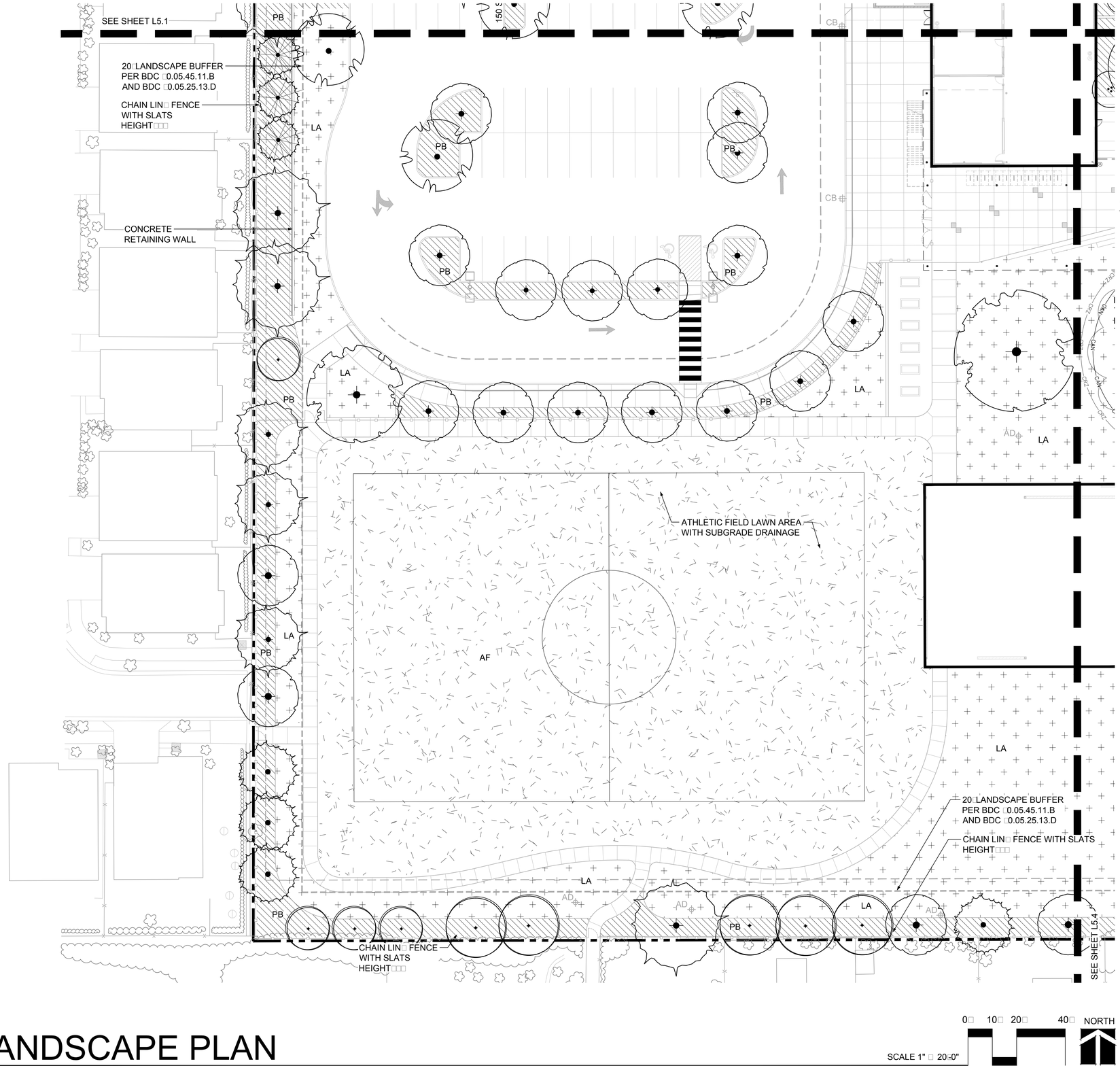
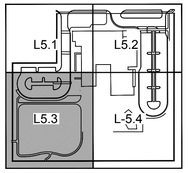


LANDSCAPE PLAN

LEGEND

- PROPERTY LINE
- MINIMUM SETBACK PER BDC
- CONCRETE RETAINING WALL
- CHAINLINK FENCE BLACK VINYL COATED
- EXISTING TREES TO REMAIN
- PROPOSED TREES
- VISION CLEARANCE ZONE PER CITY OF BEAVERTON STANDARD (15' x 15')
- SW — STORM WATER LANDSCAPE AREA
- PB — PLANT BED WITH BARK MULCH
- LA — LAWN AREA
- AF — ATHLETIC FIELD LAWN AREA
- PROPOSED LIGHTING SEE ELECTRICAL

SHEET KEY



LAND USE SUBMITTAL

LANDSCAPE PLAN
VOSE ELEMENTARY SCHOOL
BEAVERTON SCHOOL DISTRICT

L5.3

74-15111-10
12/23/2015
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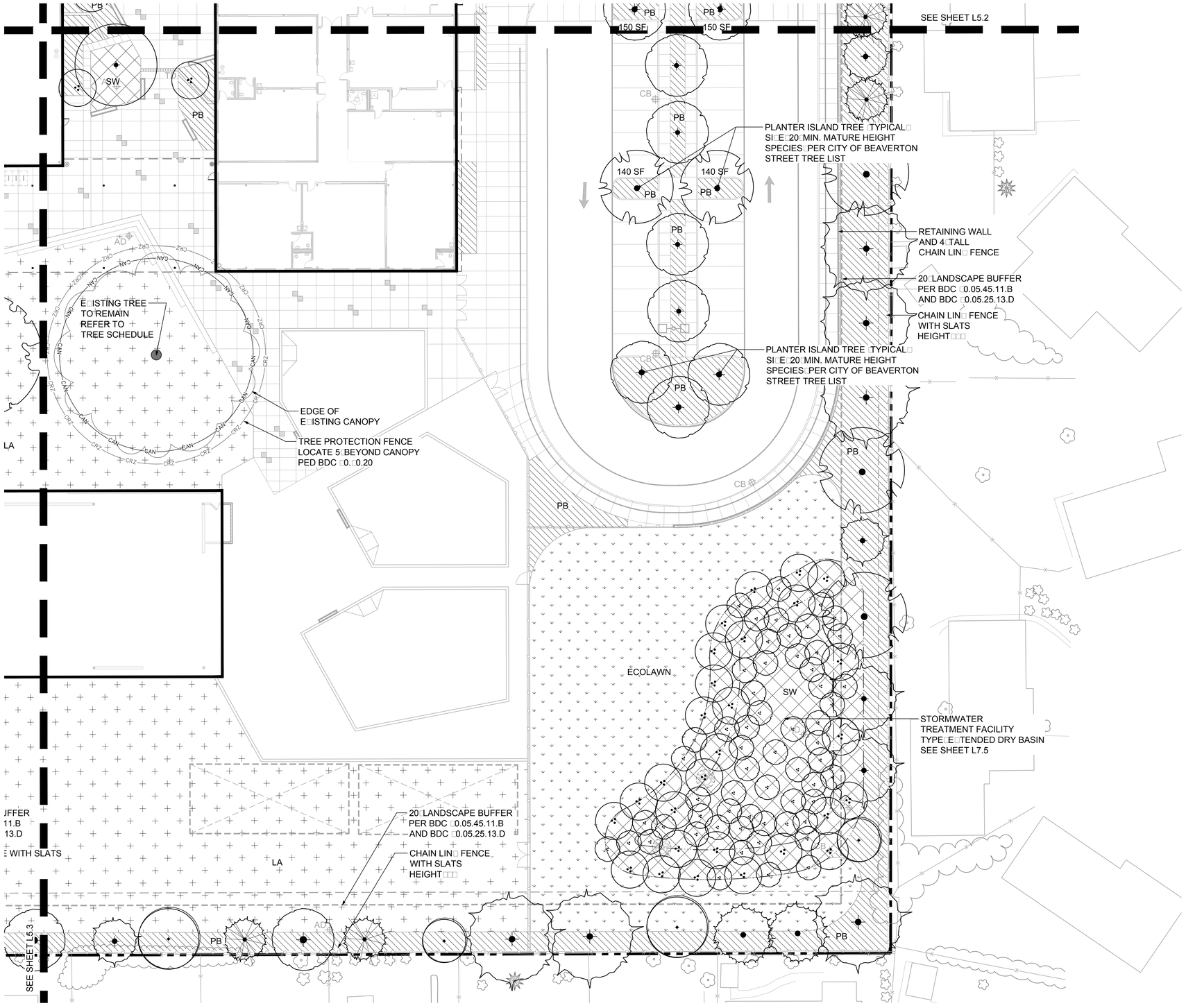


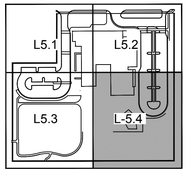
LEGEND

- PROPERTY LINE
- MINIMUM SETBACK PER BDC
- CONCRETE RETAINING WALL
- CHAINLINK FENCE BLACK VINYL COATED
- EXISTING TREES TO REMAIN
- PROPOSED TREES
- VISION CLEARANCE ZONE PER CITY OF BEAVERTON STANDARD (15' × 15')
- SW — STORM WATER LANDSCAPE AREA
- PB — PLANT BED WITH BARK MULCH
- LA — LAWN AREA
- AF — ATHLETIC FIELD LAWN AREA
- PROPOSED LIGHTING SEE ELECTRICAL

LANDSCAPE PLAN

SCALE 1" = 20'-0" 0 10 20 40 NORTH

SHEET KEY



LAND USE SUBMITTAL

LANDSCAPE PLAN
VOSE ELEMENTARY SCHOOL
BEAVERTON SCHOOL DISTRICT

L5.4

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12/23/2015
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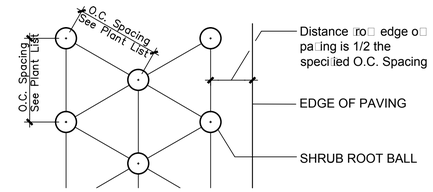
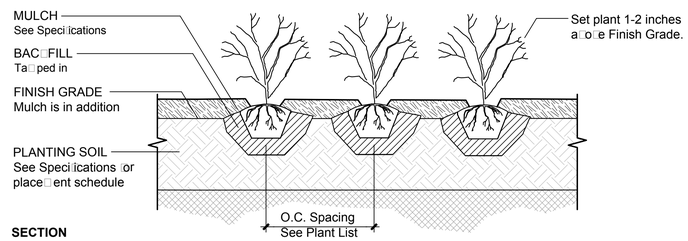


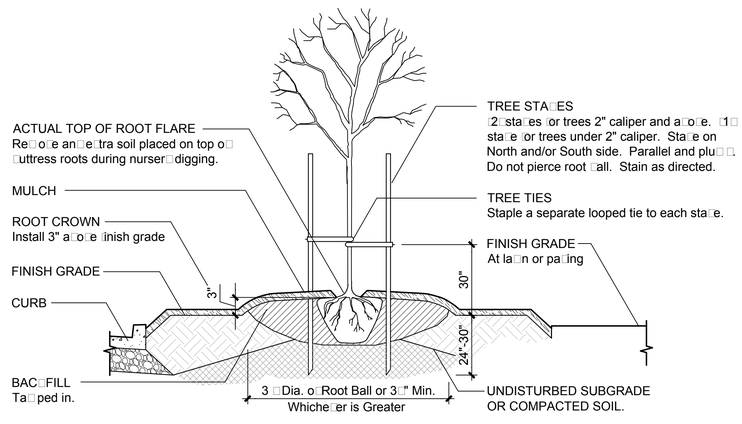
PLAN



SECTION

TRIANGULAR SHRUB SPACING DETAIL

NTS (1)



NOTES

1. Trees planted too deep will not be accepted.
2. Remove tree ties and stakes one year after planting unless directed otherwise.
3. Provide trees planted in lawn with minimum 5 foot diameter bare area. Hold bar a a from trunk.
4. Remove burlap from top of root ball.

DECIDUOUS TREE PLANTING

NTS (2)

SCHEDULE OF PROPOSED PLANT MATERIAL

TREES	Botanical	Common	Cont	Cal	Size	Remarks
ABI GRA	Abies grandis	Grand Fir	B&B or Cont.		6`-8`	Full & bushy, evenly branched
ACE CIR	Acer circinatum	Vine Maple	B&B or Cont.		6`	Full & bushy, evenly branched
ACE GRI	Acer griseum	Paperbark Maple	B&B or Cont.		6`	Full & bushy, evenly branched
ACE LEG	Acer saccharinum `Legacy`	Legacy Maple	B&B or Cont.	2"Cal		Full & bushy, evenly branched
ACE WAR	Acer truncatum `Warren Red`	Pacific Sunset Maple	B&B or Cont.	2"Cal		Full & bushy, evenly branched
BET OCC	Betula occidentalis	Water Birch	B&B or Cont.	1.5"Cal		Full & bushy, evenly branched
CAL DEC	Calocedrus decurrens	Incense Cedar	B&B or Cont.		6`	Full & bushy, evenly branched
CER JAP	Cercidiphyllum japonicum	Katsura Tree	B&B or Cont.	2"Cal		Full & bushy, evenly branched
CER TEX	Cercis canadensis texensis	Texas Redbud	B&B or Cont.		6`	Full & bushy, evenly branched
COR HEA	Cornus kousa `Heartthrob`	Heartthrob Korean Dogwood	B&B or Cont.		6`	Full & bushy, evenly branched
FRA JUN	Fraxinus americana `Junginger` TM	Autumn Purple White Ash	B&B or Cont.	2"Cal		Full & bushy, evenly branched
GIN BIL	Ginkgo biloba ``Golden Colonnade``	Golden Colonnade Ginko	B&B or Cont.	2"Cal		Full & bushy, evenly branched
OST VIR	Ostrya virginiana	American Hophornbeam	B&B or Cont.	2"Cal		Full & bushy, evenly branched
PSE DOU	Pseudotsuga menziesii	Douglas Fir	B&B or Cont.		6`-8`	Full & bushy, evenly branched
QUE BUC	Quercus buckleyi	Texas Red Oak	B&B or Cont.	2"Cal		Full & bushy, evenly branched
QUE GAR	Quercus garryana	Oregon Oak	B&B or Cont.	2.5"Cal		Full & bushy, evenly branched
QUE HYP	Quercus hypoleucoides	Silverleaf Oak	B&B or Cont.	2"Cal		Full & bushy, evenly branched
SEQ SEM	Sequoia sempervirens	Coast Redwood	B&B or Cont.		6`-8`	Full & bushy, evenly branched
SEQ GIG	Sequoiadendron giganteum	Giant Sequoia	B&B or Cont.		6`-8`	Full & bushy, evenly branched
TSU HET	Tsuga heterophylla	Western Hemlock	B&B or Cont.		6`-8`	Full & bushy, evenly branched
ZEL GRE	Zelkova serrata `Green Vase`	Sawleaf Zelkova	B&B or Cont.	2"Cal		Full & bushy, evenly branched

SHRUBS: Tall, over 3.5'			
Botanical	**Common**	**Size**	**Spacing**
Azalea species	Azalea	#3	3' o.c.
Daphne x burkwoodii 'Carol Mackie'	Carol Mackie Daphne	#5	48" o.c.
Enkianthus campanulatus 'Showy Lantern'	Showy Lantern Enkianthus	#5	36" o.c.
Prunus laurocerasus 'Otto Luyken'	Otto Luyken Laurel	#5	30" o.c.
SHRUBS and FERNS: Low, under 3.5'			
Cornus species	Dogwood	#3	36" o.c.
Dryopteris erythrosora 'Brilliance'	Autumn Fern	#2	36" o.c.
Euonymus species	Euonymus		
Fothergilla gardenii	Dwarf Fothergilla	#2	36" o.c.
Hydrangea quercifolia 'Pee Wee'	Pee Wee Oakleaf Hydrangea	#3	48" o.c
Kalmia latifolia 'Minuet'	Minuet Mountain Laurel	#3	32" o.c.
Polystichum munitum	Swordfern	#3	24" o.c.
Prunus laurocerasus 'Mt Vernon'	Mt. Vernon Laurel	#2	36" o.c.
Rhododendron cultivars	Rhododendron	#3	48" o.c.
Spiraea betulifolia 'Tor'	Birchleaf Spiraea	#3	30" o.c.
Spiraea japonica 'Albiflora'	Albiflora Japanese Spiraea	#3	36" o.c.
Taxus species	Yew	#2	48" o.c.
Viburnum davidii	David Viburnum	#3	48" o.c.
GROUNDCOVERS and Vines			
Arctostaphylos uva-ursi "Emerald Carpet"	Emerald Carpet Manzanita	#1 cont.	18" o.c.
Liriope cultivars	Lilyturf	#1 cont.	18" o.c.
Mahonia repens	Dwarf Oregon Grape	#1	24" o.c.
Vaccinium vitis	Lingonberry		
ORNAMENTAL GRASSES			
Calamagrostis acutiflora 'Karl Foerster'	Feather Reed Grass	#2 cont.	36" o.c.
Carex x 'Ice Dance'	Ice Dance Sedge	#1 cont.	18" o.c.
Panicum amarum Rotsrahibusch	Red Switch Grass	#2	36" o.c.
Pennisetum cultivars	Fountain Grass	#3	36" o.c.

LANDSCAPE SCHEDULE AND DETAILS

LAND USE SUBMITTAL

LANDSCAPE SCHEDULE AND DETAILS
VOSE ELEMENTARY SCHOOL
BEAVERTON SCHOOL DISTRICT

L5.5
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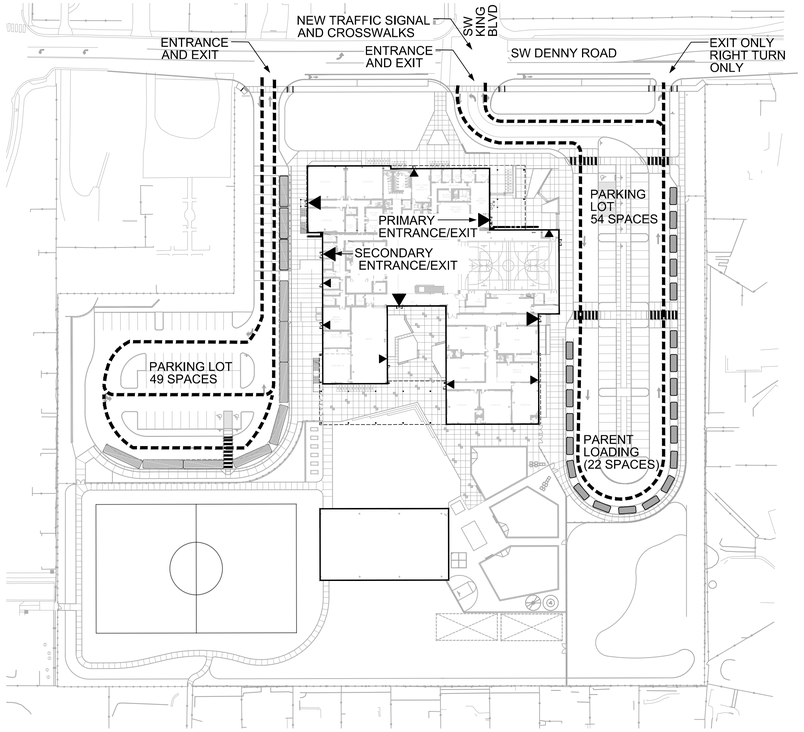
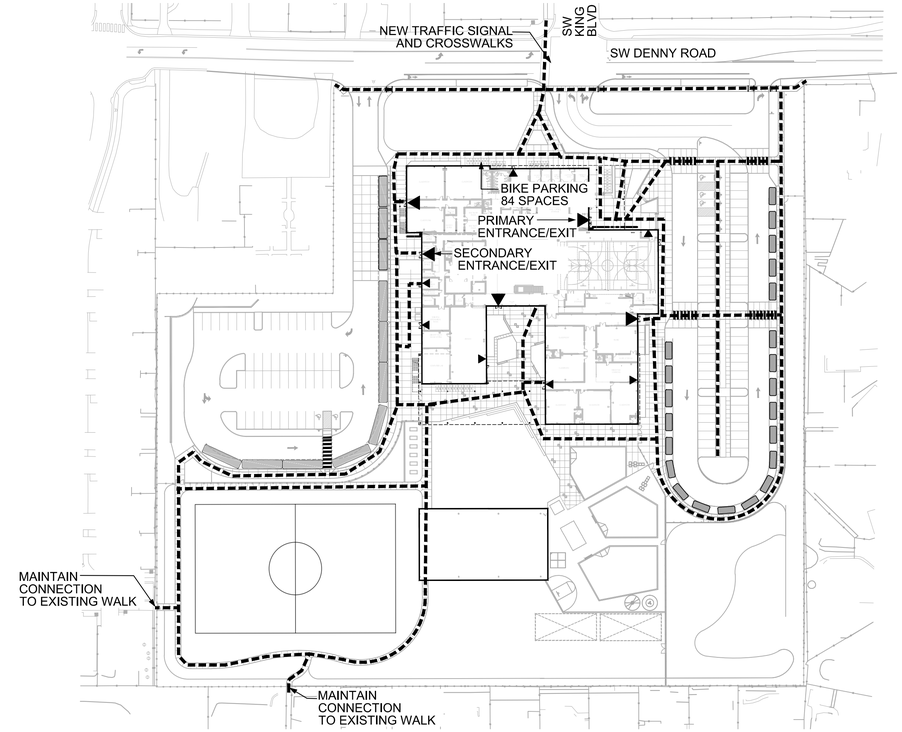


VEHICLE CIRCULATION - STAFF AND PARENTS

3



PEDESTRIAN AND BI□E CIRCULATION

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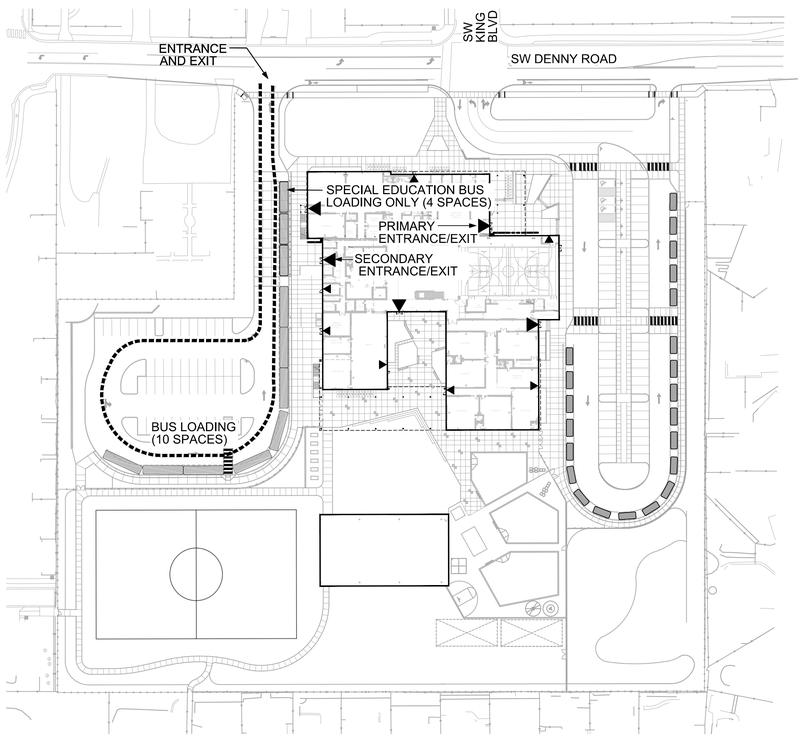

BUS CIRCULATION

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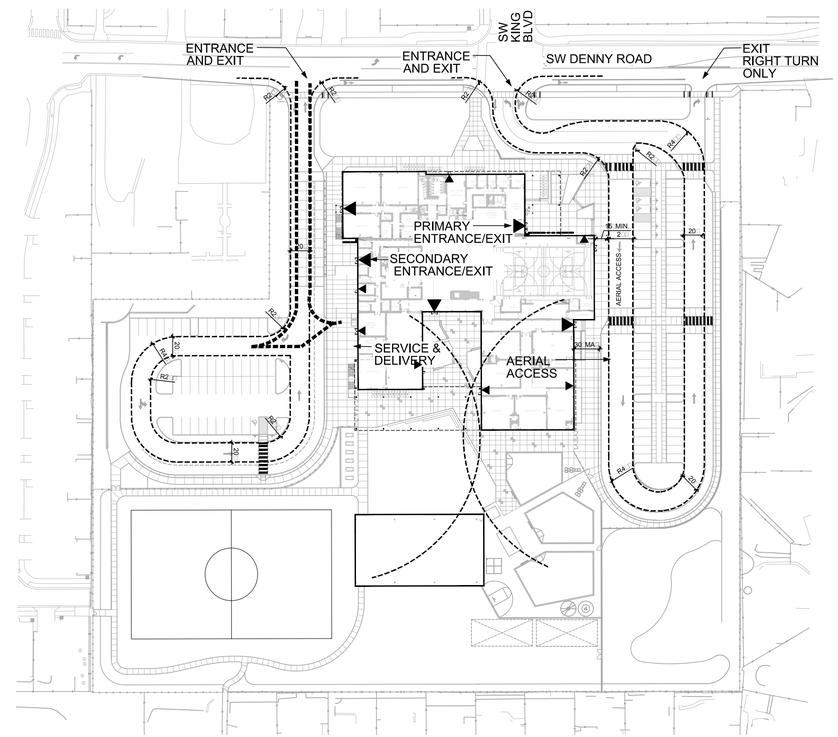

FIRE LANE AND DELIVERY CIRCULATION

2

LAND USE SUBMITTAL

MULTI MODAL CIRCULATION DIAGRAMS
VOSE ELEMENTARY SCHOOL
BEAVERTON SCHOOL DISTRICT

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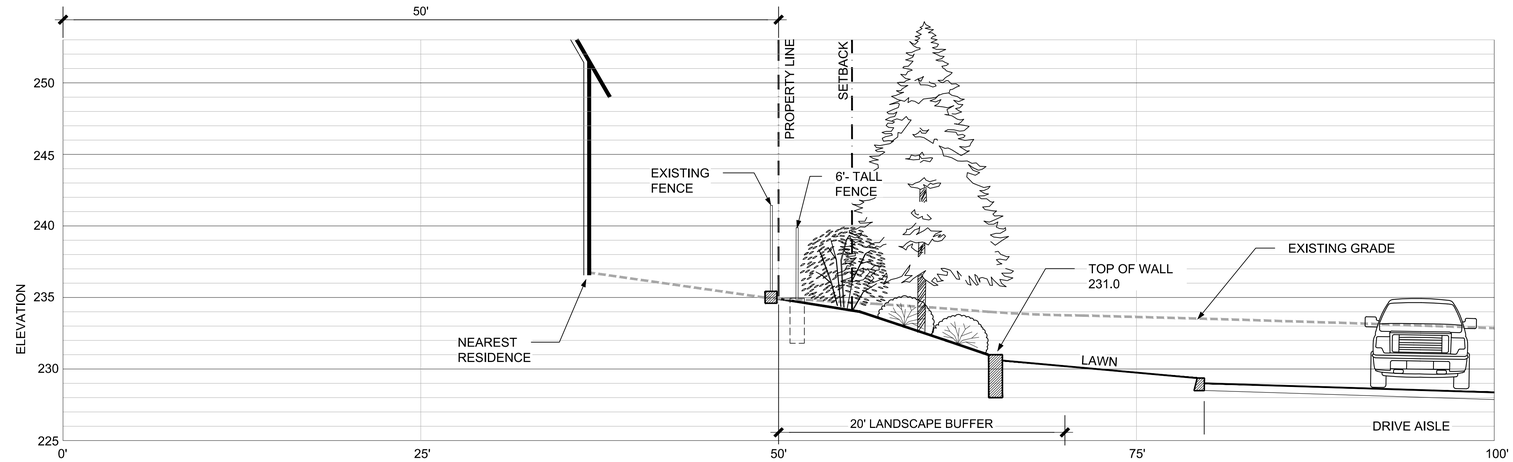
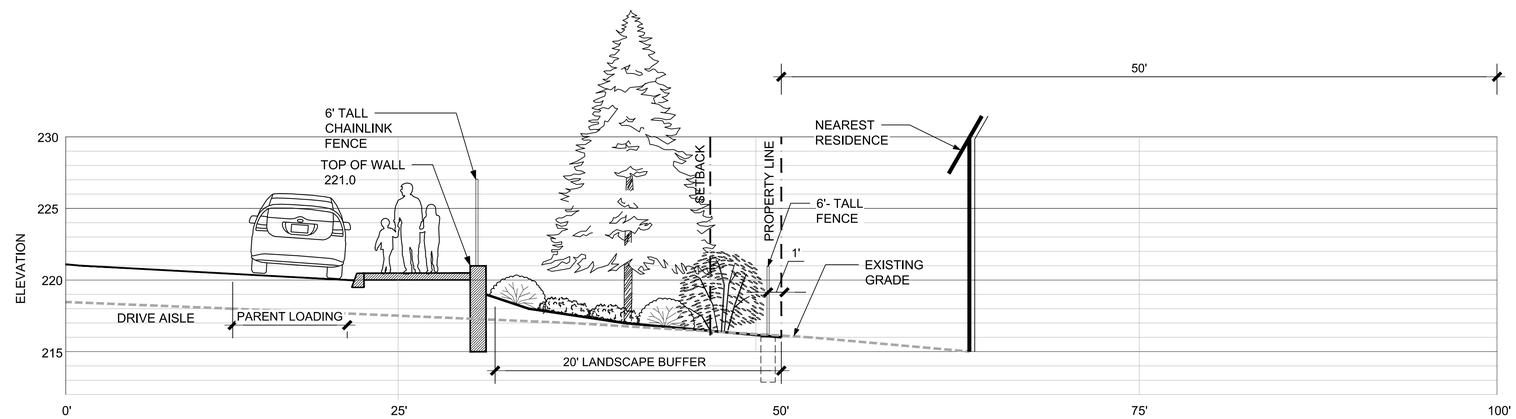


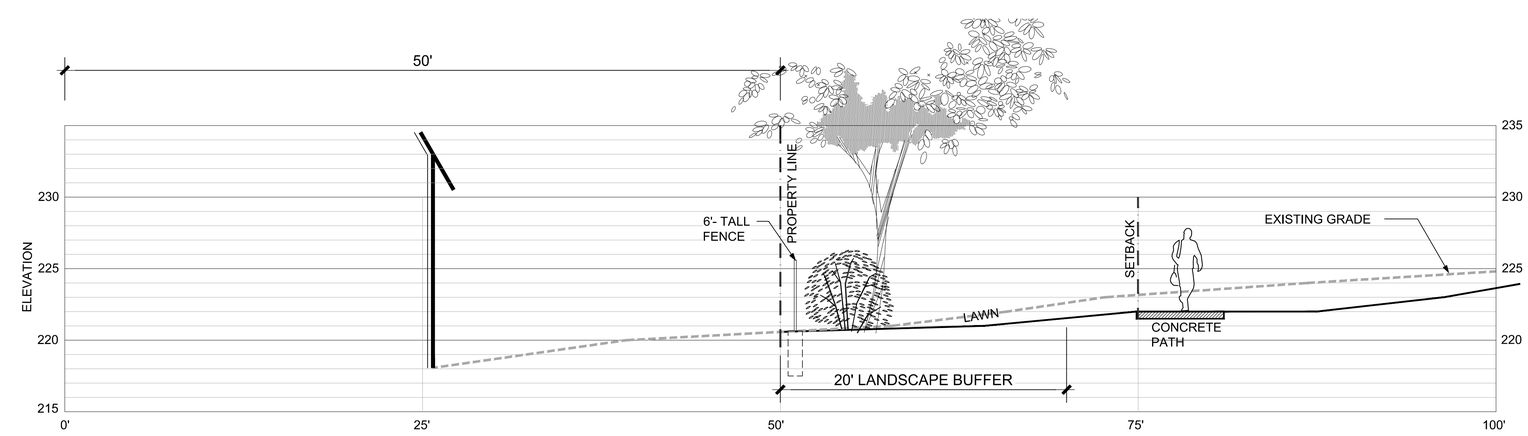
SECTION RETAINING WALL AT BUS DROP OFF LOOP

NTS 1



SECTION RETAINING WALL AT PARENT DROP OFF LOOP

NTS 2



SECTION SOUTH PEDESTRIAN PATH

NTS 3

LAND USE SUBMITTAL

SITE SECTIONS
VOSE ELEMENTARY SCHOOL
BEAVERTON SCHOOL DISTRICT

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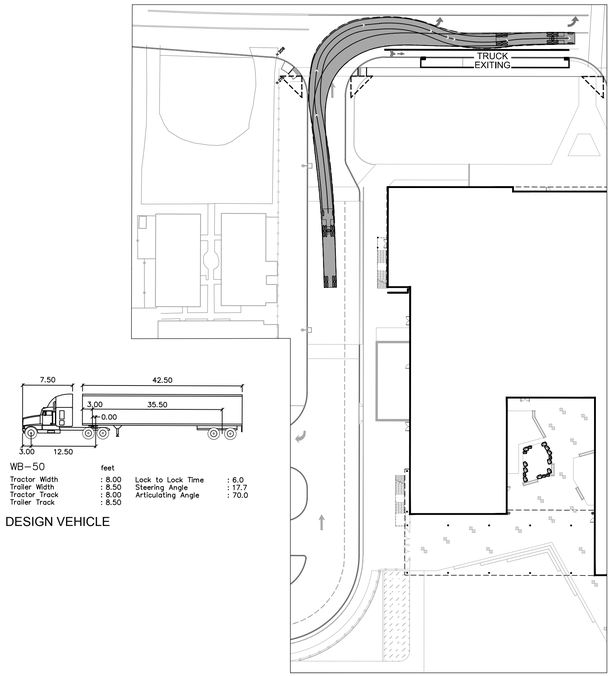
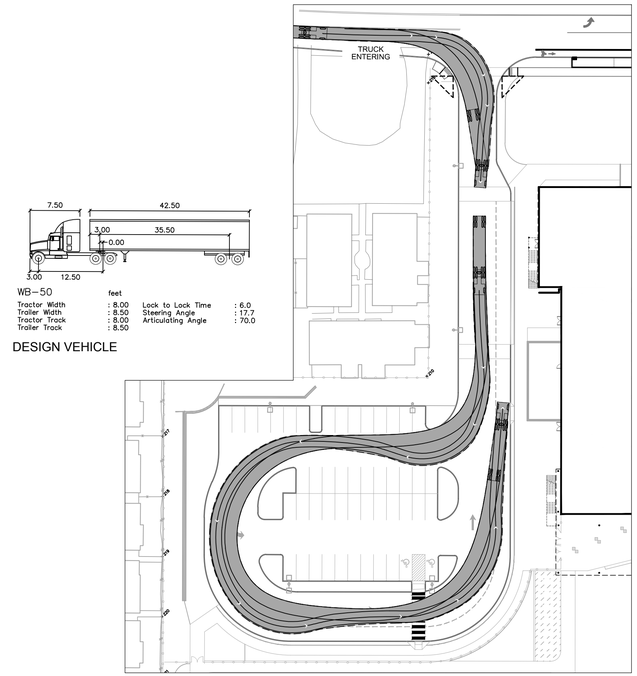


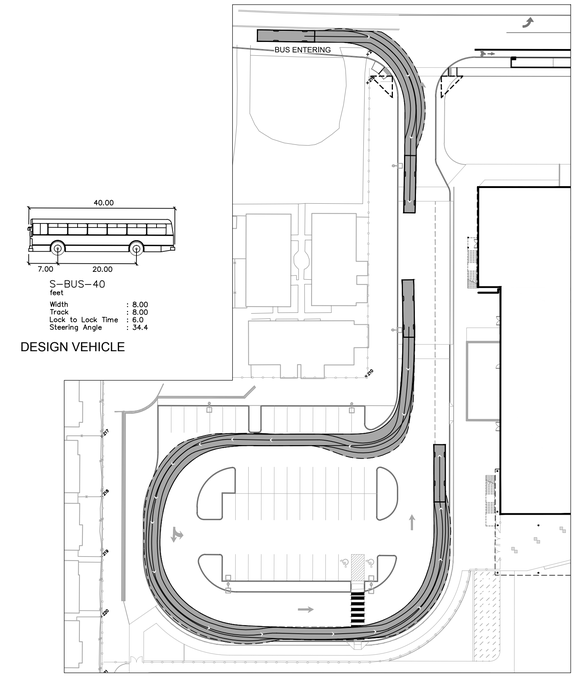
LARGE TRUC□ E□ITING IN WEST PAR□ING LOT

NTS (5)



LARGE TRUC□ ENTERING IN WEST PAR□ING LOT

NTS (3)



SCHOOL BUS LOADING IN WEST PAR□ING LOT

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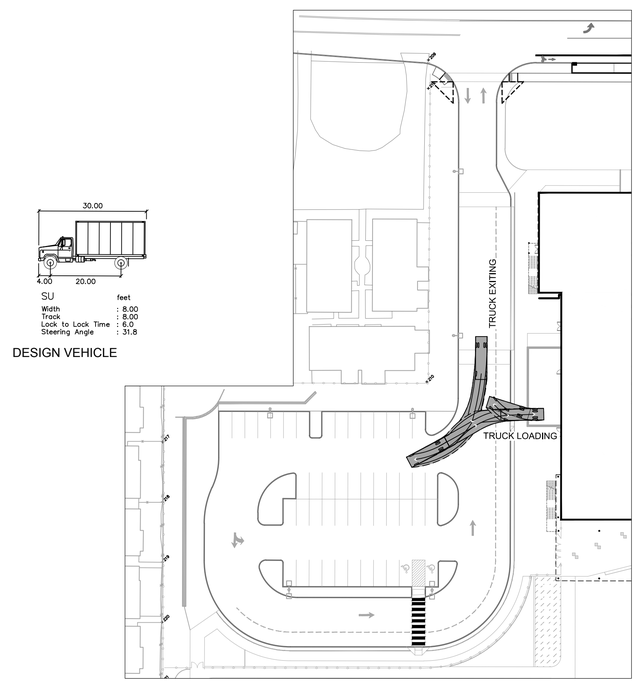

SMALL TRUC□ LOADING IN SERVICE & DELIVERY AREA

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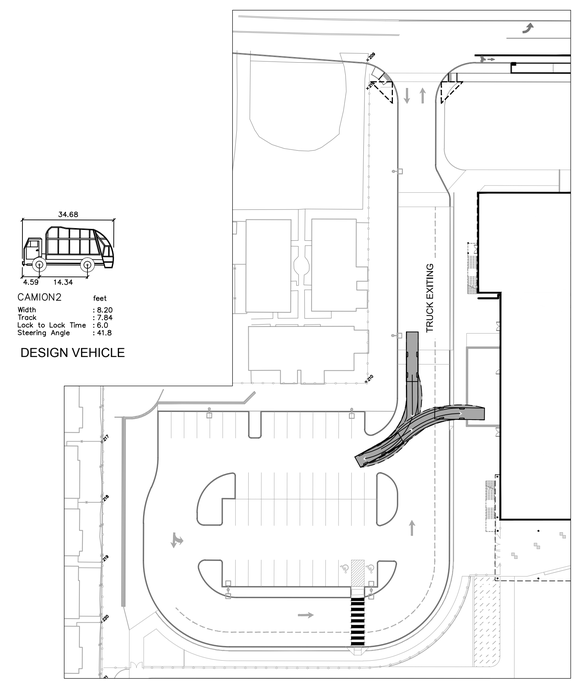

GARBAGE TRUC□ LOADING IN SERVICE & DELIVERY AREA

NTS (2)

LAND USE
SUBMITTAL

VEHICLE MANUEVERING DIAGRAMS
VOSE ELEMENTARY SCHOOL
BEAVERTON SCHOOL DISTRICT

L7.2

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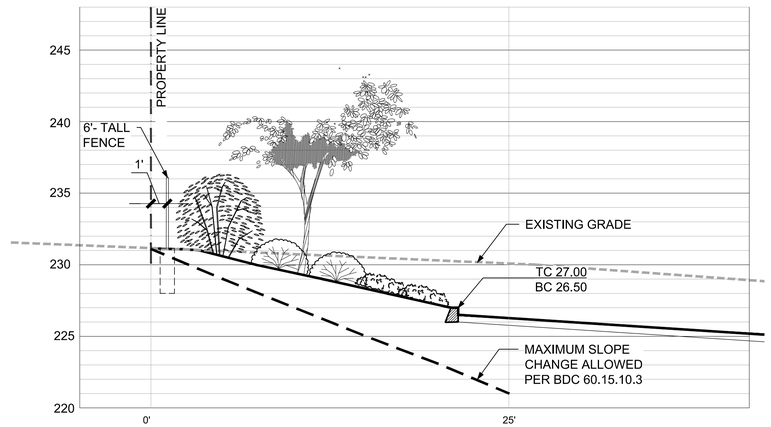

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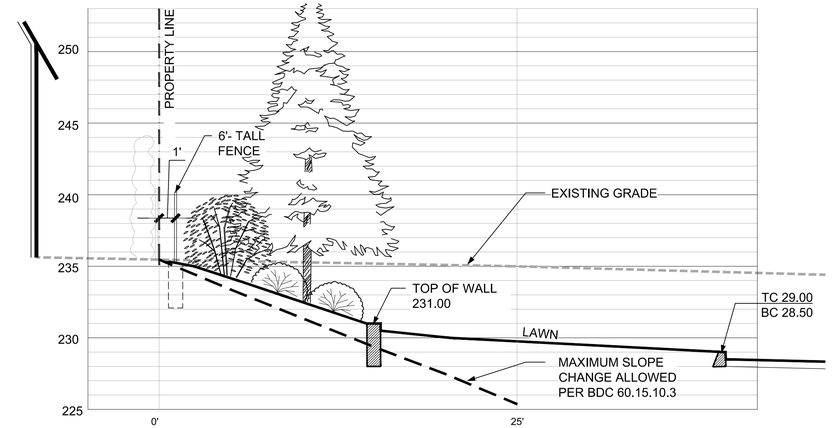
NTS 4



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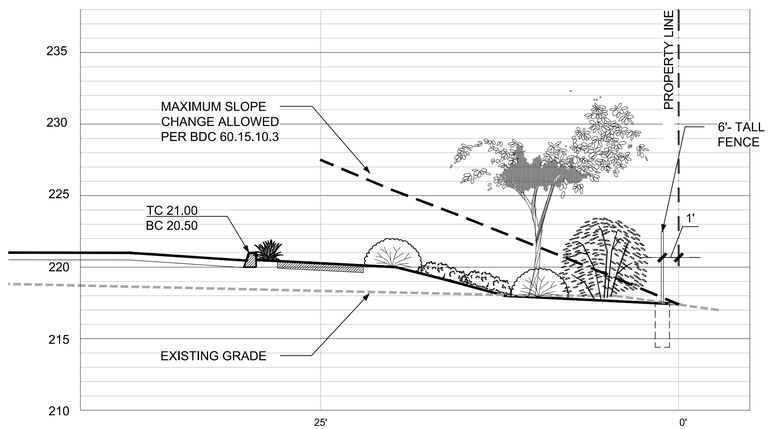

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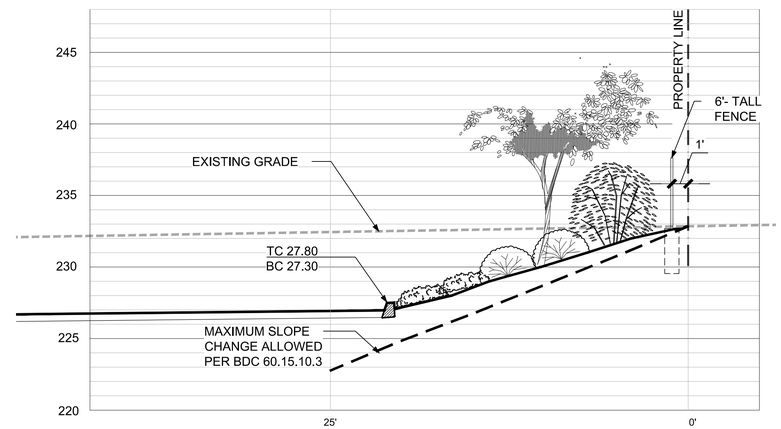
NTS 5



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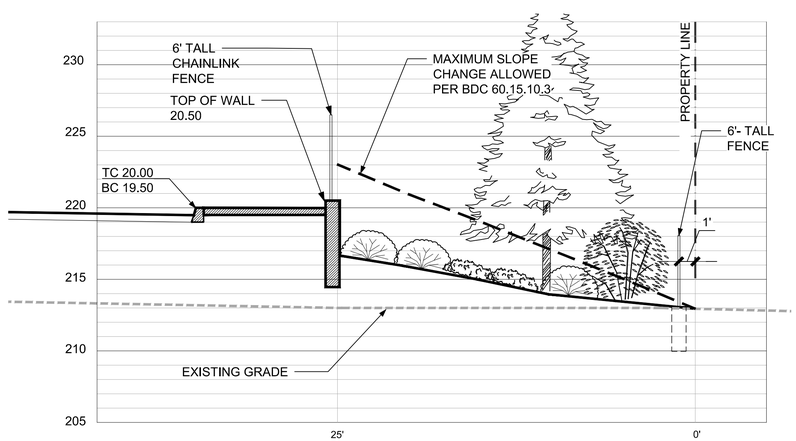
NTS 2



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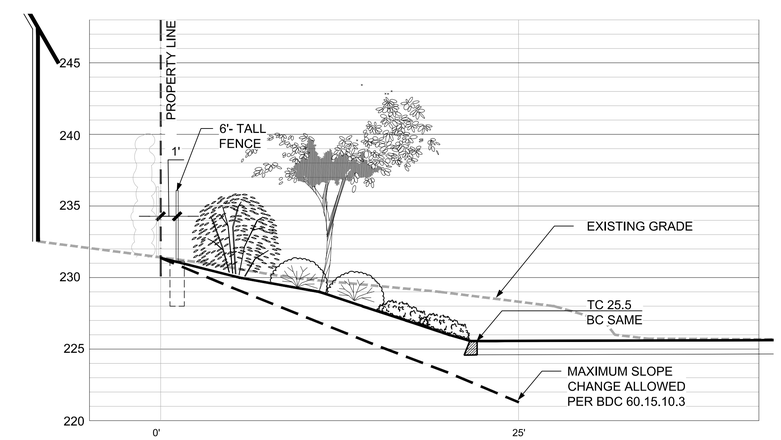

SECTION @ PROPERTY LINE
See Sheet L4.0 for reference
NTS 3

LAND USE SUBMITTAL

SITE SECTIONS
VOSE ELEMENTARY SCHOOL
BEAVERTON SCHOOL DISTRICT

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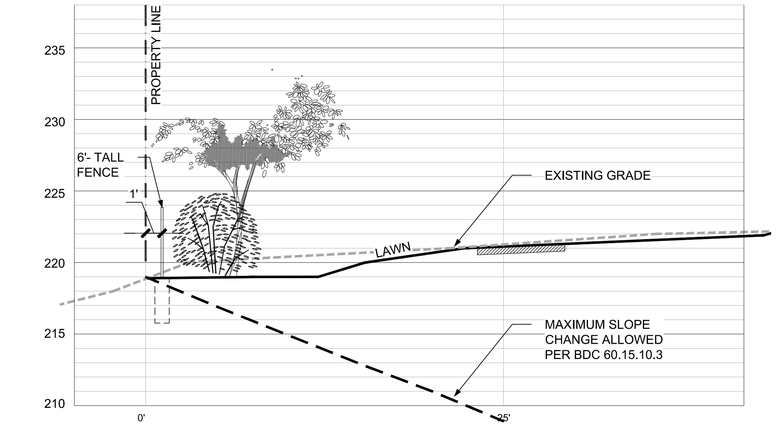

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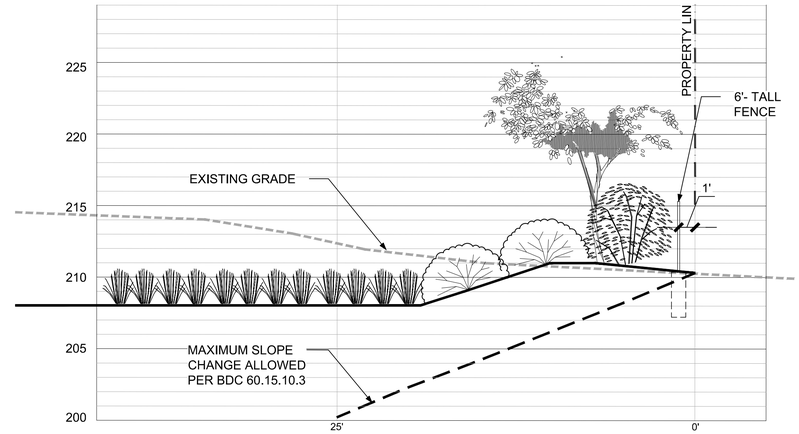

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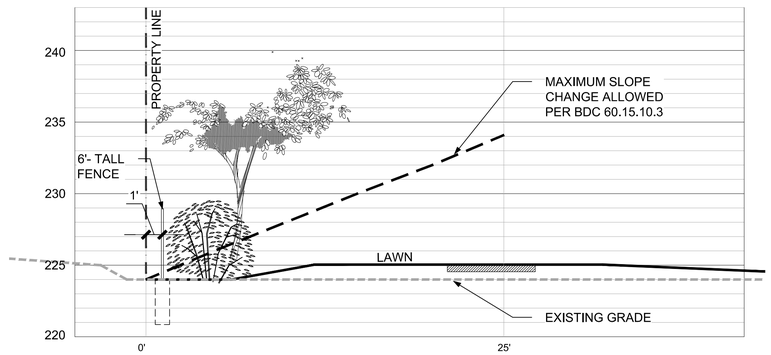

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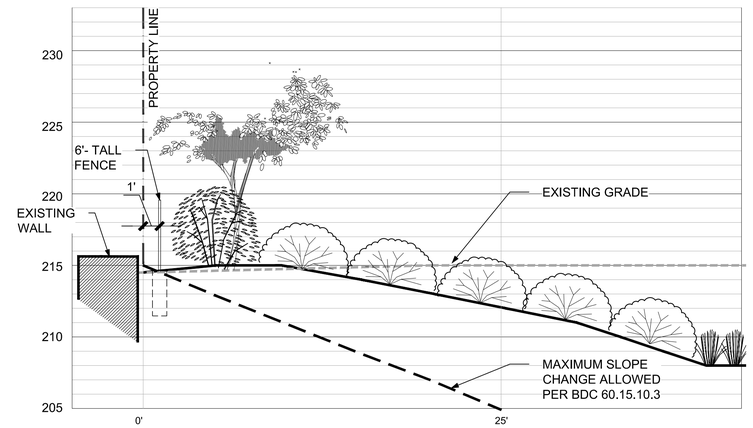

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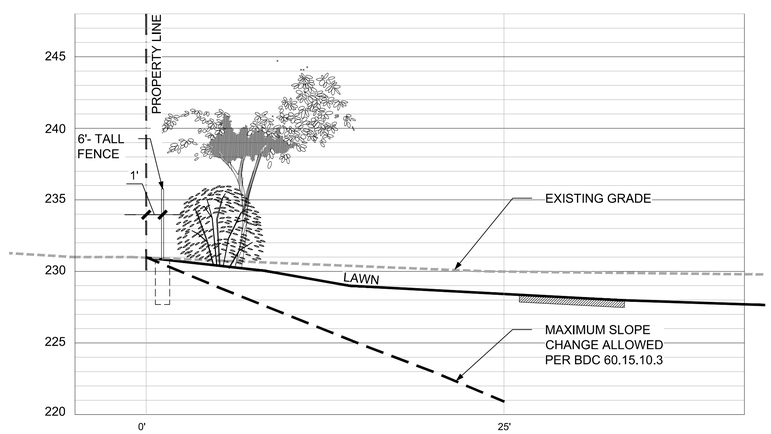
NTS 2



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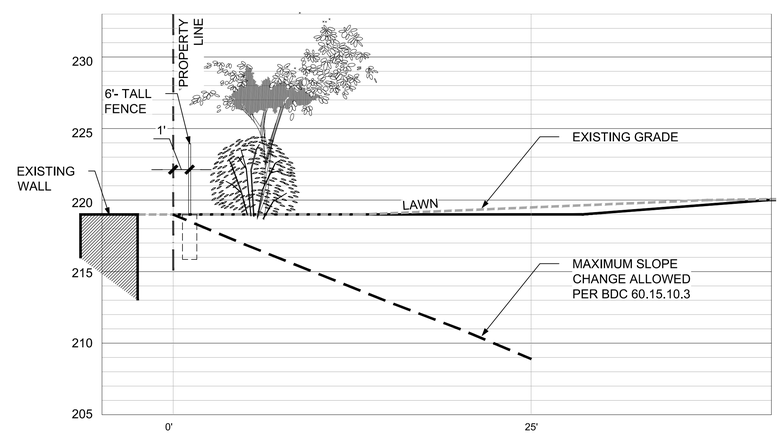
NTS



SECTION @ PROPERTY LINE
See Sheet L4.0 for reference
NTS 3

LAND USE SUBMITTAL

SITE SECTIONS
VOSE ELEMENTARY SCHOOL
BEAVERTON SCHOOL DISTRICT

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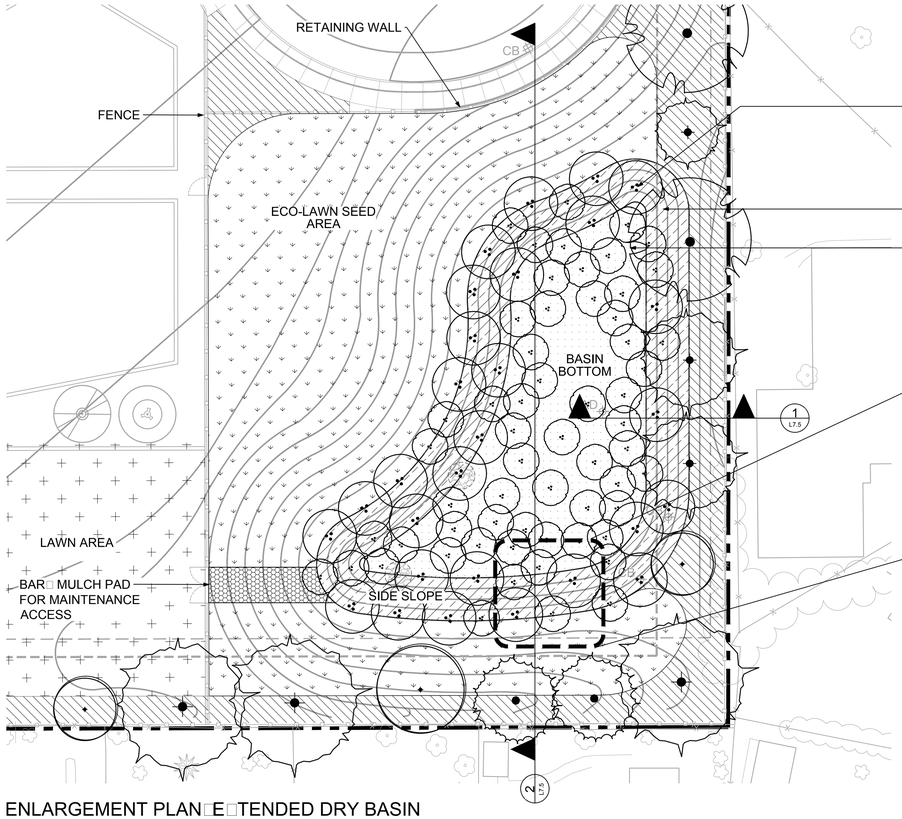


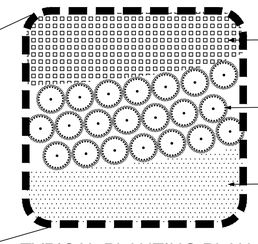
TREE PLANTINGS □□7 TOTAL
- ACER CIRCINATUM□ON SIDE SLOPES ONLY
- BETULA OCCIDENTALIS□ON SIDE SLOPES & BASIN BOTTOM

SIDE SLOPES PLANTED WITH□ CORNUS SERICEA □ELSEYI□□ 435

FLAT BASIN BOTTOM PLANTED WITH□ □0□ □UNCUS PATENS □21,451
10□ CAMASSIA □UAMASH □2□□1
10□ IRIS TENA□ □2□□1

ENLARGEMENT PLAN□E□TENDED DRY BASIN

SCALE 1" □ 20□0" (1)



BASIN BOTTOM PLANTED WITH □PLUGS PER S□UARE FOOT

SIDE SLOPE PLANTED WITH CORNUS □ELSEYI TO ACHIEVE 435 SHRUBS PER .20 ACRE

DRY AREA SEEDED WITH ECO-LAWN SEED MI□

TYPICAL PLANTING PLAN

□UNCUS PATENS

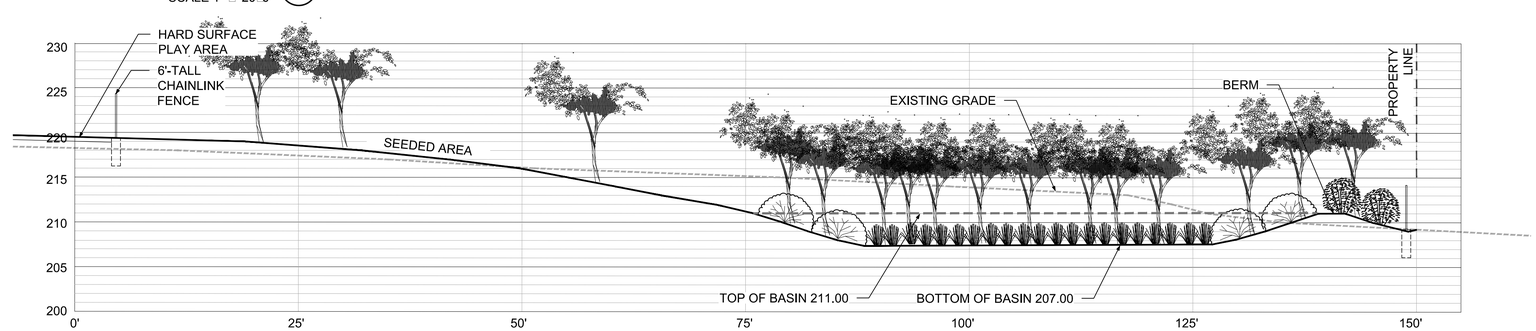
CAMASSIA □UAMASH

IRIS TENA□

CORNUS SERICEA □ELSEYI□

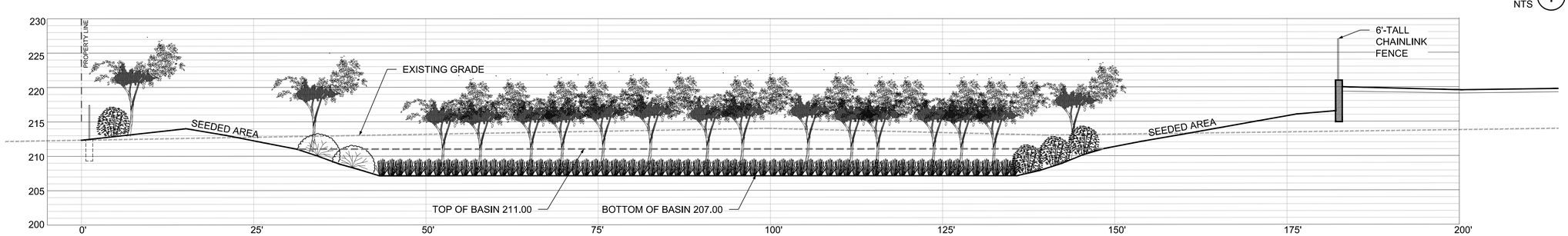
BETULA OCCIDENTALIS

ACER CIRCINATUM



SECTION□E□TENDED DRY BASIN

NTS (1)



SECTION□E□TENDED DRY BASIN

NTS (2)

LAND USE SUBMITTAL

SITE SECTIONS AND STORMWATER CONCEPT
VOSE ELEMENTARY SCHOOL
BEAVERTON SCHOOL DISTRICT

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PERSPECTIVE VIEW OF TERRACED SEATING @ COURTYARD / OUTDOOR LEARNING
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NTS (1)

LAND USE
SUBMITTAL

SITE DETAILS
VOSE ELEMENTARY SCHOOL
BEAVERTON SCHOOL DISTRICT

L7.6

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