KUEBLER GATEWAY SHOPPING CENTER SITE PLAN REVIEW SET

BOONE ROAD SE AND 27TH AVE SE SALEM, OREGON 97306

SITE LOCATION

LEGAL DESCRIPTION

VICINITY MAP

TAX PARCEL NUMBER

083W12C 02100

SURVEY INFORMATION

NATIONA GEODETIC VERTICAL DATUM OF 1929 (NGVD29) BOULEVARD, 20.2' SE OF PP #2701, 7.5' S OF E-W FENCE

PROJECT CONTACTS/UTILITIES

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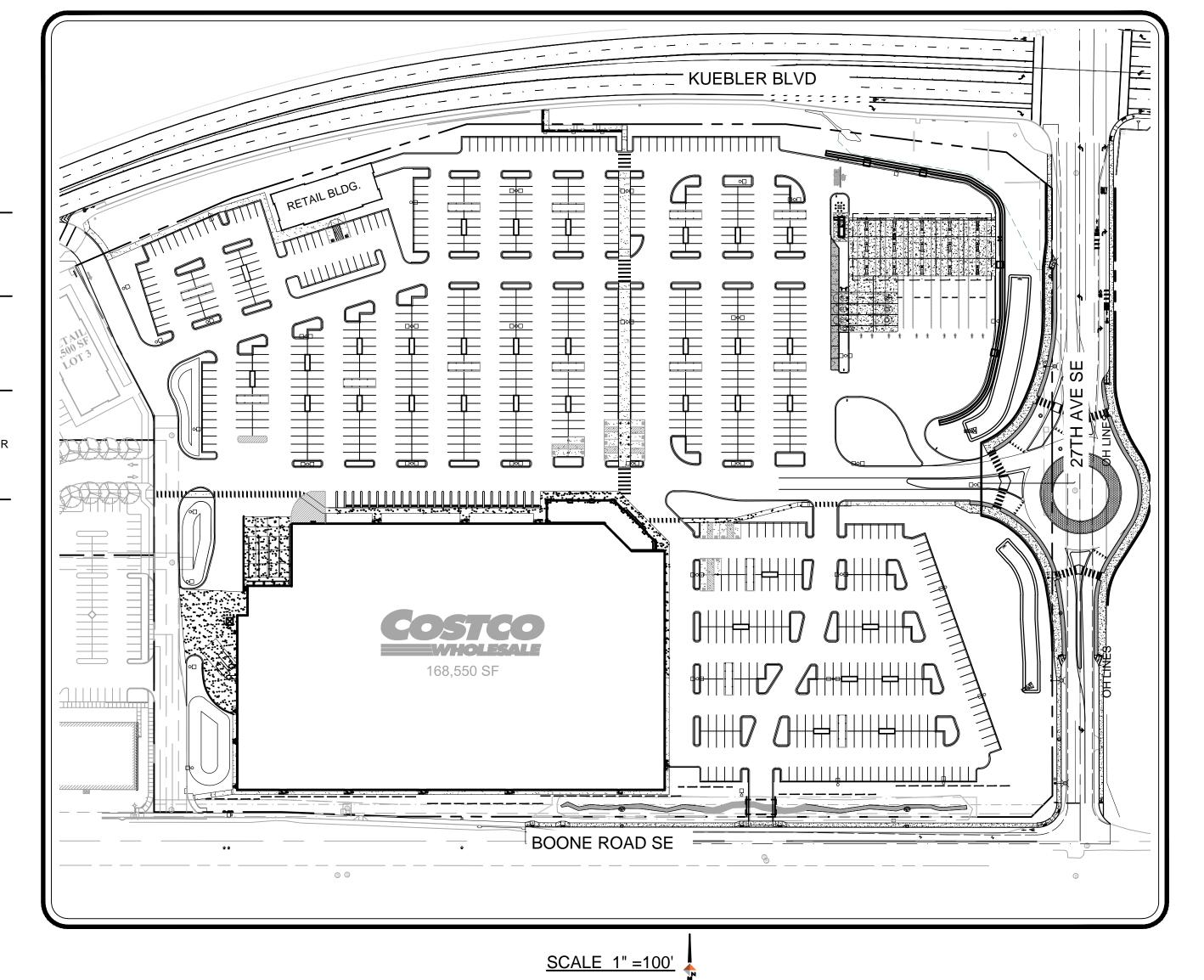
AITE@TEI-ENGINEERING.COM CITY OF SALEM PUBLIC WORKS DEPARTMENT 555 LIBERTY STREET SE, ROOM 325 SALEM, OR 97301-3513 CURT PELLATZ TEL: (503) 588-6211 FAX: (503) 588-6025

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SHEET INDEX

DESCRIPTION EXISTING CONDITIONS EXISTING STRUCTURES SITE PLAN **GRADING PLAN** STORM DRAINAGE PLAN STORM DETAILS **UTILITY PLAN EROSION CONTROL COVER SHEET**

ESC-02 **EROSION CONTROL EXISTING CONDITIONS** ESC-03 **EROSION CONTROL DETAILS**

LEGEND

_		
PROPOSED	EXISTING	<u>DESCRIPTION</u>
		BUILDING
		FLOW LINE CURB
		EXTRUDED CURB
		STANDARD CURB
		EDGE OF PAVEMENT
		EDGE OF CONCRETE
TV	TV	COMMUNICATIONS
FO	FO	BUILDING
т —	т	TELEPHONE
G	G	GAS
E	———— E———	ELECTRIC
OHP	——————————————————————————————————————	OVERHEAD POWER
ss	SS	SANITARY SEWER
	SD	STORM
W	W	WATER
		RIGHT OF WAY
		CENTERLINE
. — . — . — . — . —		WETLAND
		EDGE OF WATER
	, hl 111	WALL TOP
=	=	TREE -CONIFEROUS

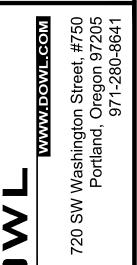
-O-

TREE - DECIDUOUS RIPRAP -0-POWER POLE LIGHT POST

POWER JUNCTION BOX UNDERGROUND VAULT \Box \top TELEPHONE RISER TRAFFIC SIGNAL CROSSING GAS METER GAS VALVE SANITARY SEWER MANHOLE DITCH INLET STORM MANHOLE STORM CATCH BASIN STORM AREA DRAIN CULVERT WATER VALVE FIRE HYDRANT WETLAND FLAGGING TEST PIT MONITORING WELL SIGN TOP

IRRIGATION CONTROL VALVE

CLEANOUT

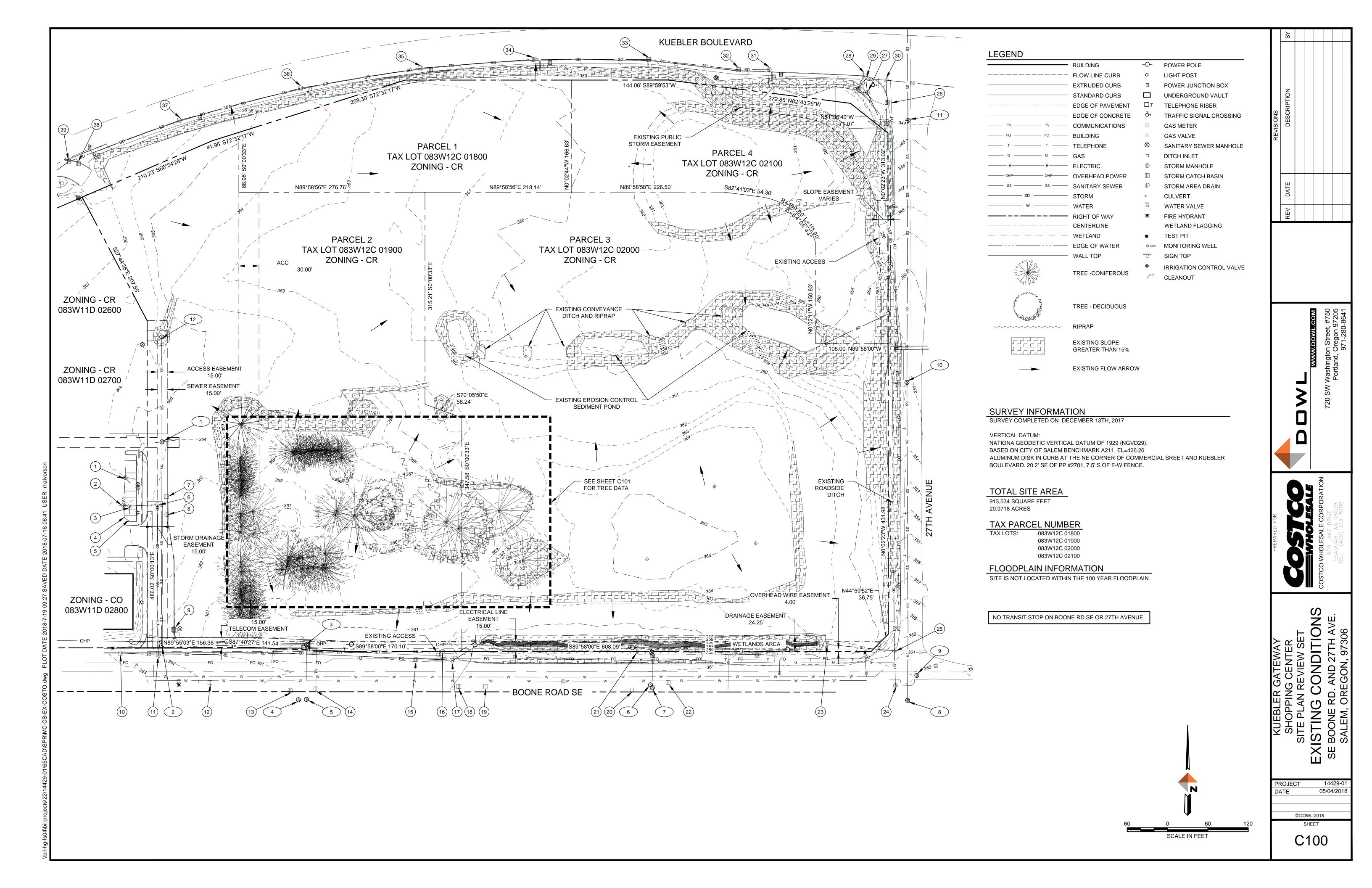




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SURVEY INFORMATION

REEL 3476, PAGE 0048, BOOK OF RECORDS.

2653

2656

2659

2660

2675

"E 156.38'

2667

A TRACT OF LAND LYING IN THE SOUTHWEST ONE-QUARTER OF SECTION 12, TOWNSHIP 8 SOUTH, RANGE 3 WEST OF THE WILLAMETTE MERIDIAN, CITY OF SALEM, MARION COUNTY, OREGON, DESCRIBED AS FOLLOWS:

BEGINNING AT A POINT ON THE NORTH RIGHT-OF-WAY LINE OF BOONE ROAD S.E., SAID POINT BEING 30.00 FEET NORTH 00°05'21" EAST AND 678.71 FEET SOUTH 89°58'00" EAST FROM THE SOUTHWEST CORNER OF SAID SECTION 12; AND RUNNING THENCE NORTH 89°58'00" WEST 467.90 FEET ALONG SAID NORTH RIGHT-OF-WAY LINE; THENCE NORTH 00°00'13" WEST 491.37 FEET; THENCE NORTH 27°44'38" WEST 207.56 FEET TO A POINT ON THE SOUTHERLY RIGHT-OF-WAY LINE OF KUEBLER BOULEVARD, SAID POINT BEING 90.56 FEET SOUTHEASTERLY OF AND AT RIGHT ANGLES TO THE CENTERLINE OF SAID KUEBLER BOULEVARD; THENCE NORTH 66°34'28" EAST 210.23 FEET ALONG SAID SOUTHERLY RIGHT-OF-WAY LINE TO AN ANGLE POINT IN SAID RIGHT-OF-WAY, SAID POINT BEING 80.00 FEET SOUTHEASTERLY OF AND AT RIGHT ANGLES TO SAID CENTERLINE; THENCE NORTH 72°32'17" EAST 41.95 FEET ALONG SAID SOUTHERLY RIGHT-OF-WAY LINE TO A POINT WHICH IS 79.61 FEET SOUTHEASTERLY OF AND AT RIGHT ANGLES TO SAID CENTERLINE; THENCE LEAVING SAID SOUTHERLY RIGHT-OF-WAY LINE SOUTH 00°00'33" EAST 88.97 FEET; THENCE NORTH 89°58'56" EAST 276.76 FEET; THENCE SOUTH 00°00'33" EAST 315.21 FEET; THENCE SOUTH 70°05'50" EAST 58.24 FEET; THENCE SOUTH 00°00'33" EAST 347.58 FEET TO THE POINT OF BEGINNING; EXCEPTING THAT PORTION CONVEYED TO CITY OF SALEM, AN OREGON MUNICIPAL CORPORATION, ORGANIZED AND EXISTING UNDER AND BY VIRTUE OF THE LAWS OF THE STATE OF OREGON BY DEED RECORDED FEBRUARY 25, 2013 IN

2807

2809

2803

2802

2801

PARCEL B

BEGINNING AT A POINT ON THE WEST LINE OF THAT TRACT OF LAND DESCRIBED IN REEL 2556, PAGE 0136, DEED RECORDS FOR MARION COUNTY, OREGON WHICH BEARS SOUTH 89°58'00" EAST 347.25 FEET AND NORTH 00°00'33" WEST 712.34 FEET FROM THE SOUTHWEST CORNER OF SECTION 12 IN TOWNSHIP 8 SOUTH, RANGE 3 WEST OF THE 30.00 FEET FROM THE SOUTHWEST CORNER OF SECTION 12 IN WILLAMETTE MERIDIAN, IN THE CITY OF SALEM, MARION COUNTY, OREGON; THENCE NORTH 00°00'33" WEST ALONG SAID WEST LINE A DISTANCE OF 88.97 FEET TO A POINT ON THE SOUTHERLY RIGHT OF WAY OF KUEBLER BOULEVARD; THENCE NORTH 72°32'17" EAST ALONG 89°59'52" EAST ALONG SAID RIGHT-OF-WAY LINE A DISTANCE OF 247.43 166.63 FEET TO THE SOUTHERLY RIGHT-OF-WAY LINE OF KUEBLER FEET TO THE EAST LINE OF THAT TRACT OF LAND DESCRIBED IN REEL 2579, PAGE 0170, BOOK OF RECORDS; THENCE SOUTH 00°02'44" EAST ALONG SAID EAST LINE A DISTANCE OF 166.63 FEET; THENCE SOUTH 89°58'56" WEST 494.90 FEET TO THE POINT OF BEGINNING.

PARCEL B1:

2793

¹ 2795

2796

2798

2724

BOONE RD SE

SCALE: 1" = 40'

EXISTING TREE INFORMATION

2806

2794

2790

2788

A 30.00 FOOT WIDE ACCESS EASEMENT THE WESTERLY LINE OF WHICH LINE OF SAID 27TH AVE. A DISTANCE OF 313.02 FEET; THENCE NORTH IS DESCRIBED AS FOLLOWS:

BEGINNING AT THE SOUTHWEST CORNER OF THE ABOVE DESCRIBED TRACT AND RUNNING THENCE SOUTH 00°00'33" EAST A DISTANCE OF 682.34 FEET TO THE NORTH LINE OF BOONE ROAD.

2828

2827

PARCEL C:

2240

2238

2526

BEGINNING AT A POINT ON THE NORTH LINE OF BOONE ROAD AT ITS INTERSECTION WITH THE WEST LINE OF THAT TRACT OF LAND DESCRIBED IN REEL 2579, PAGE 0172 BOOK OF RECORDS WHICH POINT BEARS SOUTH 89°58'00" EAST 842.63 FEET AND NORTH 00°02'44" WEST TOWNSHIP 8 SOUTH, RANGE 3 WEST OF THE WILLAMETTE MERIDIAN IN THE CITY OF SALEM, MARION COUNTY, OREGON; THENCE NORTH 00°02'44" WEST ALONG THE WEST LINE OF SAID TRACT, A DISTANCE OF 682.78 FEET TO THE TRUE POINT OF BEGINNING; THENCE NORTH SAID RIGHT-OF-WAY LINE A DISTANCE OF 259.30 FEET; THENCE NORTH 00°02'44" WEST ALONG THE WEST LINE OF SAID TRACT, A DISTANCE OF BOULEVARD SE; THENCE NORTH 89°59'52" EAST ALONG SAID RIGHT-OF-WAY LINE A DISTANCE OF 144.06 FEET TO AN ANGLE POINT THEREIN; THENCE SOUTH 82°43'26" EAST ALONG SAID RIGHT-OF-WAY LINE A DISTANCE OF 272.85 FEET; THENCE SOUTH 51°36'40" EAST 71.07 FEET TO AN ANGLE POINT IN THE WEST RIGHT-OF-WAY LINE OF 27TH AVE.; THENCE SOUTH 00°02'23" EAST ALONG THE WEST RIGHT-OF-WAY 89°58'00" WEST A DISTANCE OF 108.00 FEET; THENCE NORTH 00°02'11" WEST ALONG THE WEST LINE OF THAT TRACT OF LAND DESCRIBED IN REEL 1595, PAGE 0219, BOOK OF RECORDS, A DISTANCE OF 150.83 FEET; THENCE NORTHWESTERLY ALONG THE ARC OF A 100.00 FOOT RADIUS CURVE TO THE LEFT (THE CHORD OF WHICH BEARS NORTH 50°37'43" WEST 106.15 FEET) A DISTANCE OF 111.90 FEET; THENCE NORTH 82°41'03" WEST 54.30 FEET; THENCE NORTH 89°59'00" WEST 226.50 FEET TO THE TRUE POINT OF BEGINNING.

PARCEL D:

BEGINNING AT A POINT ON THE NORTH LINE OF BOONE ROAD AT ITS INTERSECTION WITH THE WEST LINE OF THAT TRACT OF LAND DESCRIBED IN REEL 1089, PAGE 0148, BOOK OF RECORDS WHICH POINT BEARS SOUTH 89°58'00" EAST 842.63 FEET AND NORTH 00°02'44" WEST 30.00 FEET FROM THE SOUTHWEST CORNER OF SECTION 12 IN TOWNSHIP 8 SOUTH, RANGE 3 WEST OF THE WILLAMETTE MERIDIAN IN THE CITY OF SALEM, MARION COUNTY, OREGON; THENCE NORTH 89°58'00" WEST ALONG SAID NORTH LINE A DISTANCE OF 163.81 FEET; THENCE NORTH 00°00'33" WEST 347.58 FEET; THENCE NORTH 70°05'50" WEST 58.24 FEET; THENCE NORTH 00°00'33" WEST 315.21 FEET; THENCE NORTH 89°58'56" EAST 218.14 FEET; THENCE SOUTH 89°59'00" EAST 226.50 FEET; THENCE SOUTH 82°41'03" EAST 54.30 FEET; THENCE SOUTHEASTERLY ALONG THE ARC OF A 100.00 FOOT RADIUS CURVE TO THE RIGHT (THE CHORD OF WHICH BEARS SOUTH 50°37'43" EAST 106.15 FEET) A DISTANCE OF 111.90 FEET TO A POINT ON THE WEST LINE OF THAT TRACT OF LAND DESCRIBED IN REEL 1595, PAGE 0219, BOOK OF RECORDS; THENCE SOUTH 00°02'11" EAST ALONG SAID WEST LINE A DISTANCE OF 150.83 FEET; THENCE SOUTH 89°58'00" EAST A DISTANCE OF 108.00 FEET, TO THE WEST RIGHT-OF-WAY LINE OF 27TH AVENUE; THENCE SOUTH 00°02'23" EAST ALONG SAID RIGHT-OF-WAY LINE A DISTANCE OF 431.98 TO AN ANGLE POINT IN SAID RIGHT-OF-WAY LINE; THENCE SOUTH 44°59'52" WEST 36.75 FEET TO THE NORTH LINE OF SAID BOONE ROAD: THENCE NORTH 89°58'00" WEST ALONG SAID NORTH LINE, A DISTANCE OF 444.28 FEET TO THE POINT OF BEGINNING.

EXISTING TREE TABLE

LAIGHING H	ILL IADLL		
POINT NUMBER	TREE TYPE	CALIPER	
2238	WHITE OAK	34	
2239	WHITE OAK	34	
2240	WHITE OAK	44	
2526	WHITE OAK	28	
2589	DOUGLAS-FIR	24	
2590	DOUGLAS-FIR	22	
2591	DOUGLAS-FIR	16	
2653	BLACK PINE	15	
2655	BLACK PINE	12	
2656	BLACK PINE	19	
2657	BLACK PINE	16	
2658	BLACK PINE	12	
2659	PONDERSONA PINE	15	
2660	BLACK PINE	14	
2661	BLACK PINE	12	
2662	BLACK PINE	16	
2663	BLACK PINE	8	
2664	BLACK PINE	10	
2666	PONDERSONA PINE	18	
2667	BLACK PINE	13	
2668	PONDERSONA PINE	10	
2669	PONDERSONA PINE	14	
2671	DOUGLAS-FIR	15	
2673	DOUGLAS-FIR	20	
2675	DOUGLAS-FIR	24	
2676	DOUGLAS-FIR	12	
2678	DOUGLAS-FIR	19	
2678	DOUGLAS-FIR	19	
2679	DEAD		
2680	BLACK PINE	7	
2681	PONDERSONA PINE	12	
2682	DEAD		
2683	PONDERSONA PINE	22	
2685	PONDERSONA PINE	19	
2686	PONDERSONA PINE	13	
2687	PONDERSONA PINE	16	
2688	PONDERSONA PINE	14	
2689	PONDERSONA PINE	21	
2694	BLACK PINE	20	
2695	BLACK PINE	15	
2701	BLACK PINE	16	
2702	BLACK PINE	16	
2703	BLACK PINE	13	
2704	BLACK PINE	17	
2714	PONDERSONA PINE	28	
2715	PONDERSONA PINE	21	
2718	PONDERSONA PINE	6	
2719	PONDERSONA PINE	12	
2720	PONDERSONA PINE	26	
2722	DOLIGIAS FIR	7	

2722

DOUGLAS-FIR

POINT NUMBER	TREE TYPE	CALIPER
2723	DOUGLAS-FIR	21
2724	GRAND FIR	25
2726	DOUGLAS-FIR	14
2728	DOUGLAS-FIR	21
2732	DOUGLAS-FIR	19
2785	ELM	12
2786	DOUGLAS-FIR	17
2788	DOUGLAS-FIR	14
2789	DOUGLAS-FIR	15
2790	DOUGLAS-FIR	12
2791	DOUGLAS-FIR	13
2793	DOUGLAS-FIR	9
2794	DOUGLAS-FIR	8
2795	DOUGLAS-FIR	13
2796	DOUGLAS-FIR	18
2798	DOUGLAS-FIR	7
2799	DOUGLAS-FIR	16
2800	DOUGLAS-FIR	14
2801	DOUGLAS-FIR	12
2802	DOUGLAS-FIR	14
2803	DOUGLAS-FIR	16
2804	DOUGLAS-FIR	8
2805	DOUGLAS-FIR	16
2806	DOUGLAS-FIR	17
2807	DOUGLAS-FIR	9
2808	DOUGLAS-FIR	21
2809	DOUGLAS-FIR	22
2813	DOUGLAS-FIR	26
2815	LONDON PLANETREE	26
2817	WESTERN REDCEDER	25
2819	BLACK PINE	21
2820	BLACK PINE	18
2823	WHITE OAK	51
2827	WHITE OAK	20
2828	WHITE OAK	18
2830	WHITE OAK	17
2831	WHITE OAK	12
2832	WHITE OAK	29
2838	WHITE OAK	30
2839	WHITE OAK	28

SANITARY SEWER DATA

- SANITARY SEWER MANHOLE RIM=364.11 IE 8" PVC IN (N)=357.47' IE 8" PVC IN (W)=357.26' IE 8" PVC IN (E)=357.25' IE 8" PVC OUT (S)=357.10'
- SANITARY SEWER MANHOLE RIM=361.86' IE 8" PVC IN (N)=354.60 IE 8" PVC OUT (E)=354.36
- SANITARY SEWER MANHOLE RIM=361.02' IE (W)=352.84' IE (S)=352.56'
- 4) SANITARY SEWER MANHOLE RIM=360.51'
- 5) SANITARY SEWER MANHOLE RIM=360.57'
- RIM=360.99' SANITARY SEWER MANHOLE

6) SANITARY SEWER MANHOLE

SANITARY SEWER MANHOLE RIM=362.82' IE (W)=345.05'

RIM=360.87'

IE (N)=345.00'

-) SANITARY SEWER MANHOLE RIM=362.02'
- (10) SANITARY SEWER MANHOLE RIM=350.93 IE (S)=341.99' IE (N)=341.06
- (11) SANITARY SEWER MANHOLE RIM=344.44' IE 8" PVC STUB? (W)=334.66' IE 24" CONC IN (S)=333.86'
- IE 24" CONC OUT (N)=333.10' (12) SANITARY SEWER MANHOLE RIM=350.42' IE 24" CONC IN (S)=329.68'
- IE 24" CONC OUT (N) SANITARY SEWER MANHOLE RIM=363.83'

IE (W)=360.63'

IE (S)=360.39'

- RIM=361.85' IE 18" CPP OUT (E)=355.55'
 - RIM=361.35'
 - RIM=360.17'
 - RIM=360.15' **CATCH BASIN** IE 4" IN (W)=359.10'
 - RIM=360.68' IE 18" IN (W)=354.55'
- **CATCH BASIN**
- **CATCH BASIN** RIM=359.68'
- CATCH BASIN RIM=359.91'
- RIM=360.47' IE 18" IN (E)=353.77 IE 18" OUT (W)=353.69
- CATCH BASIN RIM=360.17'
- STORM DRAIN MANHOLE RIM=359.66'
- RIM=360.48' IE 18" IN (W)=352.66' IE 30" (N)=352.16' IE 30" (S)=352.16'

STORM DRAINAGE DATA

- STORM DRAIN MANHOLE FILTERA SYSTEM RIM=366.06' IE 12" CPP IN (S)=359.91' IE 10" CPP IN (SE)=359.89' IE 18" CPP IN (W)=359.75' IE 18" CPP OUT (N)=359.67' SUMP=356.03'
- STORM DRAIN MANHOLE FILTERA SYSTEM RIM=365.99' IE 18" CPP IN (W)=359.70' IE 18" CPP OUT (N)=359.66 PIPES TURNED DOWN TO S & E

IE 18" CPP IN (W)=356.33'

IE 8/10" CPP IN (S)=356.27'

IE 18" CPP OUT (E)=356.21

- SUMP=356.37' STORM DRAIN MANHOLE RIM=365.85'
- CONTECH MANHOLE RIM=365.41'

FILTERA SYSTEM

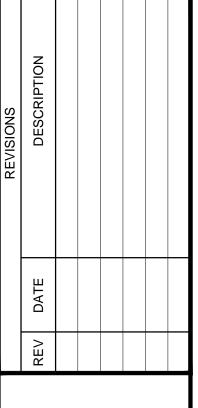
- **CONTECH MANHOLE** RIM=365.36' FILTERA SYSTEM
- STORM DRAIN MANHOLE RIM=363.82' IE 18" CPP IN (W)=356.10' IE 18" CPP OUT (S)=356.00"
- STORM TRAPPED INLET RIM=363.55' TRAPPED INLET (N) IE 4" IP (S)=362.30' SUMP=359.88'
- STORM AREA DRAIN RIM=363.42'
- CONTECH MANHOLE/CATCH BASIN FILTERA SYSTEM RIM=361.24'
- CATCH BASIN RIM=362.56'
- STORM DRAIN MANHOLE IE 18" CPP IN (N)=355.75'
- **CATCH BASIN**
- **CATCH BASIN**
- **CATCH BASIN**
- IE 4" IN (E)=358.96' IE 10" OUT (E)=358.36'
- STORM DRAIN MANHOLE IE 18" OUT (E)=354.50'
- CATCH BASIN RIM=359.88' IE 4" IN (W)=358.98' IE 10" IN (E)=358.14' IE 10" OUT (W)=358.03'
- RIM=359.46'
- STORM DRAIN MANHOLE

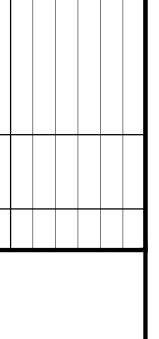
- STORM DRAIN MANHOLE RIM=361.66'
 - STORM DRAIN MANHOLE

- CATCH BASIN RIM=343.40' IE 12" IP (W)=341.65'
- STORM DRAIN MANHOLE OVERSIZED LID FILTERA SYSTEM RIM=344.77' IE 6" PVC IN (W)=337.70' IE 6" PVC IN (S)=337.70' PIPE TURNED DOWN TO N SUMP=333.43'

SUMP=340.70'

- CATCH BASIN RIM=344.44' IE 12" PVC (S)=341.92' SUMP=341.44'
- STORM DRAIN MANHOLE RIM=344.92' IE 18" PVC IN (S)=336.10' IE 12" PVC IN (SW)=336.00' IE 36" CONC OUT (E)=335.87'
- STORM DRAIN MANHOLE RIM=344.09' IE 18" PVC IN (S)=336.29' IE 36" CONC IN (W)=335.69' IE 36" CONC OUT (E)=335.65'
- STORM DRAIN MANHOLE OVERSIZED LID RIM=346.89' IE 14" PVC IN (W)=341.99' IE 16" PVC OUT (S) TURNED DOWN, CANNOT DIP SUMP=337.96'
- CATCH BASIN RIM=347.47' IE 14" PVC IN (W)=343.15' IE 14" PVC OUT (E)=342.91' SUMP=341.92'
- CATCH BASIN RIM=349.45' IE 14" PVC IN (W)=345.25' IE 14" PVC OUT (E)=345.05' SUMP=344.20'
- CATCH BASIN RIM=352.46' IE 12" PVC IN (W)=348.45' IE 14" PVC OUT (E)=348.10' SUMP=347.29'
- CATCH BASIN RIM=355.38' IE 12" PVC IN (W)=351.44' IE 12" PVC OUT (E)=351.21' SUMP=350.38'
- CATCH BASIN RIM=358.66' IE 12" PVC IN (W)=354.61' IE 12" PVC OUT (E)=354.48' SUMP=353.70'
- CATCH BASIN RIM=362.12' IE 12" PVC IN (W)=358.08' IE 12" PVC OUT (E)=357.95' SUMP=356.97'
- CATCH BASIN RIM=365.23' IE 12" PVC (N)=361.08' SUMP=360.18'
- CATCH BASIN RIM=365.35' IE 12" PVC IN (W)=361.20' IE 12" PVC OUT (E)=361.00' SUMP=360.15'
- CATCH BASIN RIM=365.52' IE 12" PVC OUT (E)= 361.50 SUMP FULL OF DEBRIS







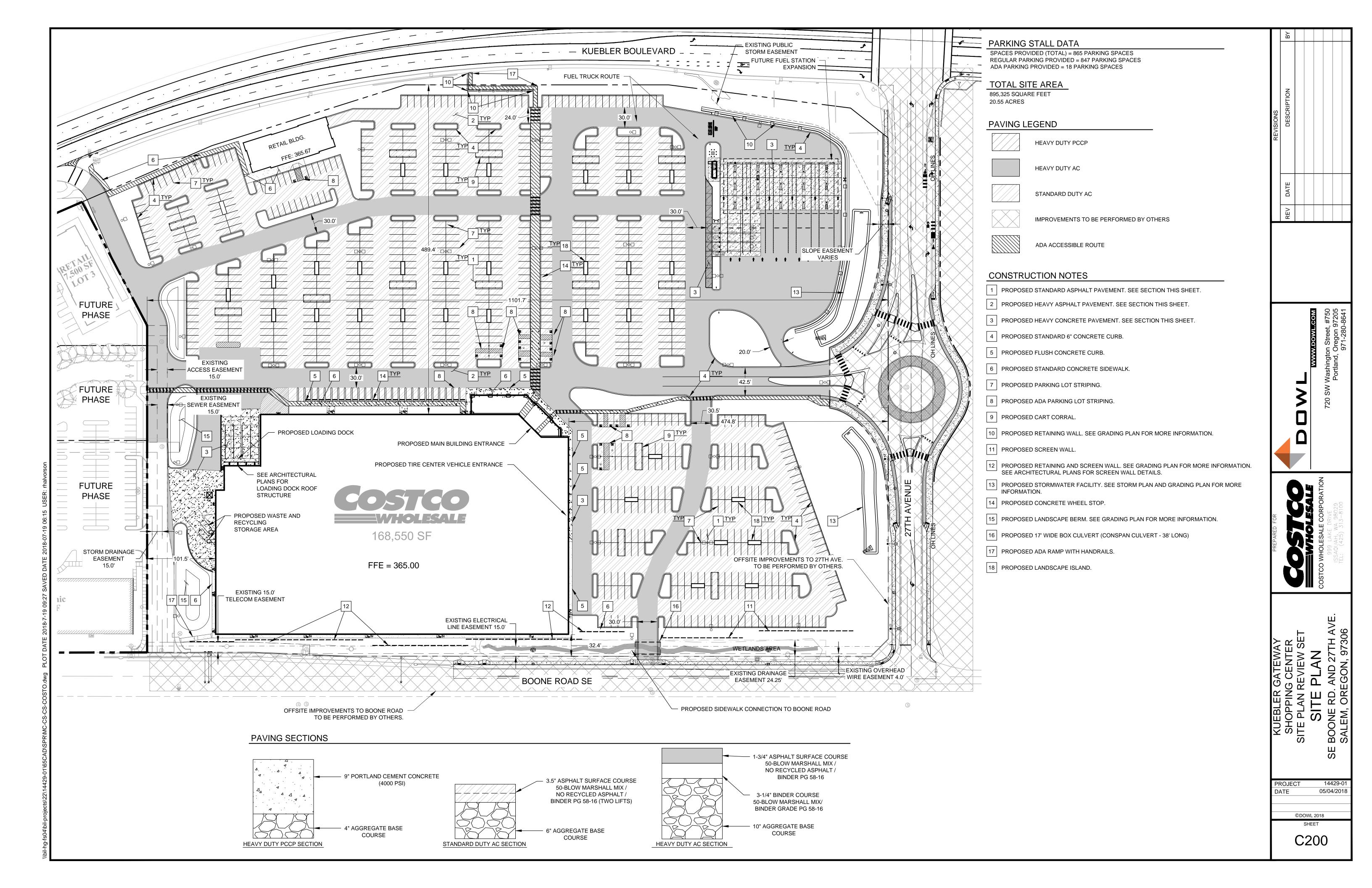


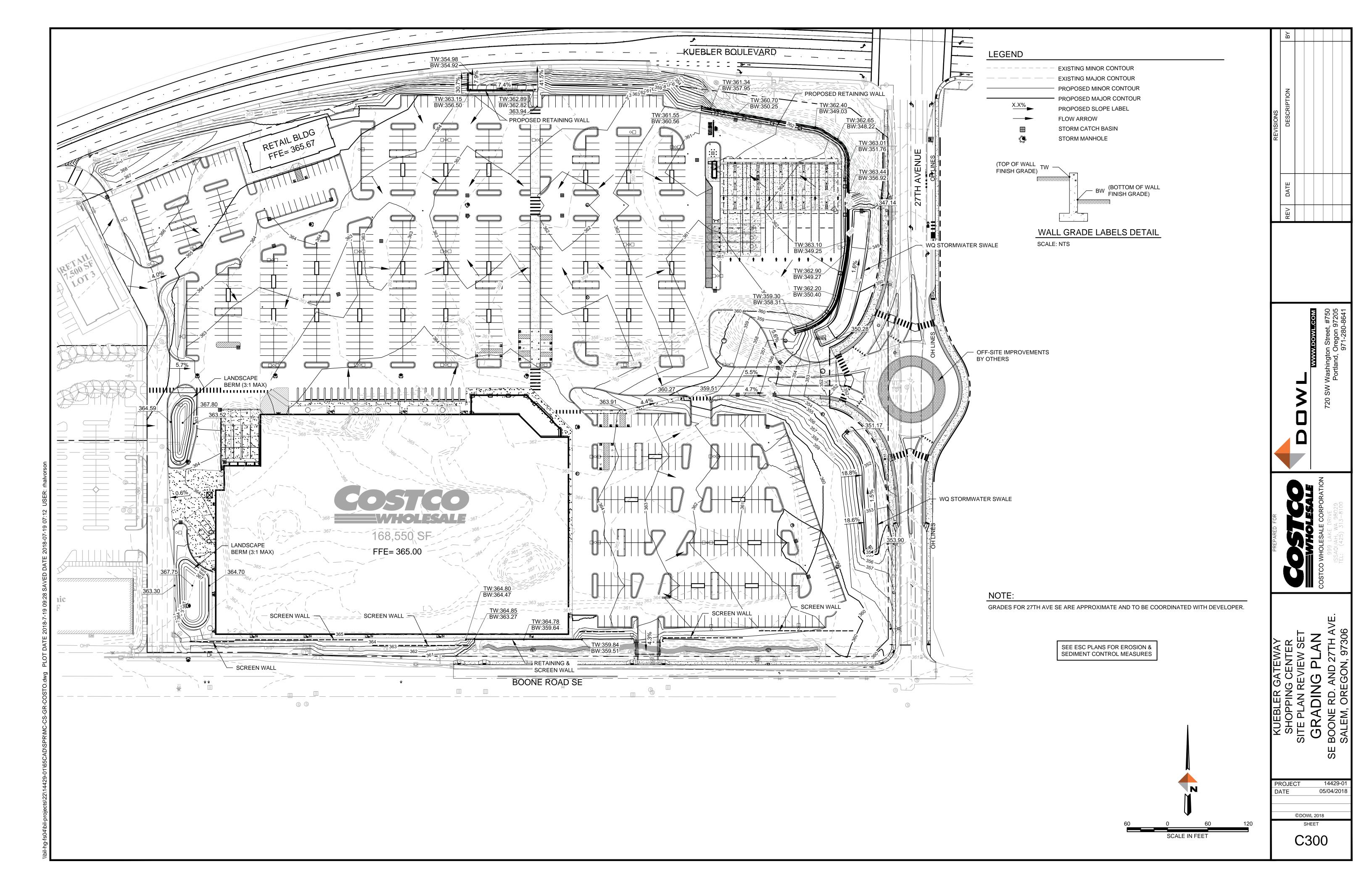


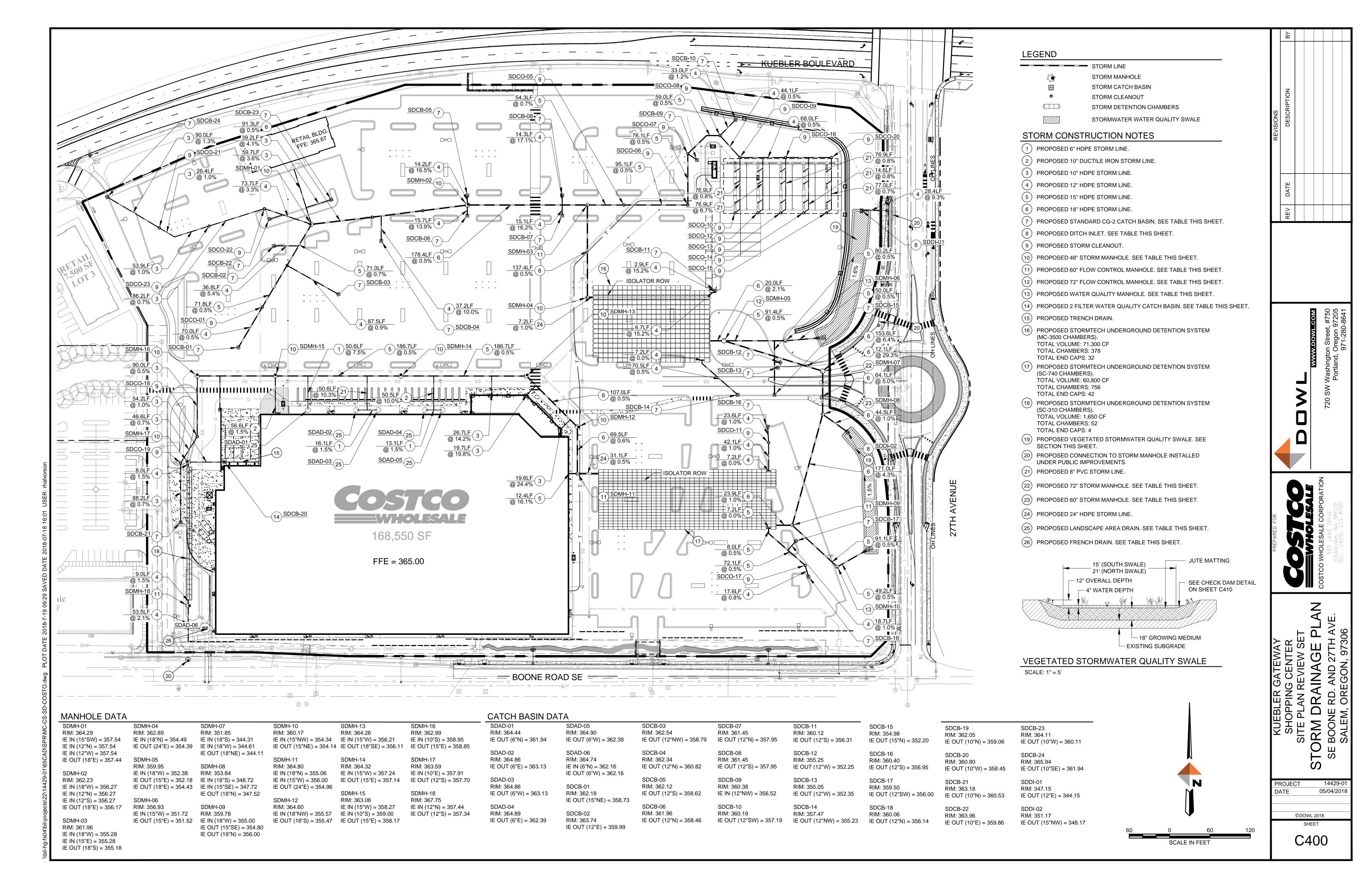
PROJECT 05/04/2018

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ACCEPTABLE FILL MATERIALS: STORMTECH MC-3500 CHAMBER SYSTEMS AASHTO MATERIAL COMPACTION / DENSITY MATERIAL LOCATION DESCRIPTION CLASSIFICATIONS REQUIREMENT FINAL FILL: FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER PREPARE PER SITE DESIGN ENGINEER'S PLANS. OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT PAVED INSTALLATIONS MAY HAVE STRINGENT GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE SUBGRADE REQUIREMENTS. MATERIAL AND PREPARATION REQUIREMENTS. ≥ □ MAY BE PART OF THE 'D' LAYER AASHTO M145 BEGIN COMPACTIONS AFTER 24" (600 mm) OF A-1, A-2-4, A-3 INITIAL FILL: FILL MATERIAL FOR LAYER 'C' GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 12" (300 mm) STARTS FROM THE TOP OF THE EMBEDMENT FINES OR PROCESSED AGGREGATE. OR STONE ('B' LAYER) TO 24" (600 mm) ABOVE THE MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU TOP OF THE CHAMBER. NOTE THAT PAVEMENT WELL GRADED MATERIAL AND 95% RELATIVE AASHTO M431 DENSITY FOR PROCESSED AGGREGATE SUBBASE MAY BE A PART OF THE 'C' LAYER. OF THIS LAYER. 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89 MATERIALS. 9, 10 **EMBEDMENT STONE:** FILL SURROUNDING THE AASHTO M431 CHAMBERS FROM THE FOUNDATION STONE ('A' CLEAN, CRUSHED, ANGULAR STONE NO COMPACTION REQUIRED. LAYER) TO THE 'C' LAYER ABOVE. FOUNDATION STONE: FILL BELOW CHAMBERS AASHTO M431 PLATE COMPACT OR ROLL TO ACHIEVE A FLAT FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) CLEAN, CRUSHED, ANGULAR STONE SURFACE. 2 3 3, 4 OF THE CHAMBER. PLEASE NOTE: 1. THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE WOULD STAT ANGULAR NO. 4 (AASHTO M43) STONE". STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 9" (230 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR. 3. WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS. PAVEMENT LAYER (DESIGNED ADS GEOSYNTHETICS 601T NON-WOVEN GEOTEXTILE ALL AROUND CLEAN, CRUSHED, ANGULAR STONE IN A & B LAYERS BY SITE DESIGN ENGINEER) PERIMETER STONE INSTALLATIONS WHERE RUTTING FROM VEHICLES MAY OCCUR, INCREASE COVER TO 30" (750 mm). (2.4 m)(600 mm) MIN* (SEE NOTE 6 12" (300 mm) MIN **EXCAVATION WALL** (CAN BE SLOPED OR VERTICAL) (1140 mm) DEPTH OF STONE TO BE DETERMINED BY SITE DESIGN ENGINEER 9" (230 mm) MIN 6" (150 mm) MIN -→ 77" (1950 mm) — → - 12" (300 mm) TYP SUBGRADE SOILS END CAP *FOR COVER DEPTHS GREATER THAN 8.0' (2.4 m) PLEASE CONTACT STORMTECH

MC-3500 CHAMBERS SHALL CONFORM TO THE REQUIREMENTS OF ASTM F2418 "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS"

THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH

PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.

MC-3500 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS". "ACCEPTABLE FILL MATERIALS" TABLE ABOVE PROVIDES MATERIAL LOCATIONS, DESCRIPTIONS, GRADATIONS, AND COMPACTION REQUIREMENTS FOR FOUNDATION, EMBEDMENT, AND FILL MATERIALS.

ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C'

SCALE: 1" = 5'

NOTES:

CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS.

OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.

AASHTO MATERIAL MATERIAL LOCATION DESCRIPTION CLASSIFICATIONS FINAL FILL: FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER PREPARE PER SITE DESIGN ENGINEER'S PLANS. ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT PAVED INSTALLATIONS MAY HAVE STRINGENT OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED N/A SUBGRADE REQUIREMENTS. MATERIAL AND PREPARATION REQUIREMENTS. GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER BEGIN COMPACTIONS AFTER 12" (300 mm) OF AASHTO M1451 MATERIAL OVER THE CHAMBERS IS REACHED. A-1, A-2-4, A-3 INITIAL FILL: FILL MATERIAL FOR LAYER 'C' GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% COMPACT ADDITIONAL LAYERS IN 6" (150 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR STARTS FROM THE TOP OF THE EMBEDMENT FINES OR PROCESSED AGGREGATE OR WELL GRADED MATERIAL AND 95% RELATIVE STONE ('B' LAYER) TO 18" (450 mm) ABOVE THE DENSITY FOR PROCESSED AGGREGATE TOP OF THE CHAMBER. NOTE THAT PAVEMENT MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU AASHTO M431 MATERIALS, ROLLER GROSS VEHICLE WEIGHT SUBBASE MAY BE A PART OF THE 'C' LAYER. OF THIS LAYER. 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, NOT TO EXCEED 12,000 lbs (53 kN), DYNAMIC 9, 10 FORCE NOT TO EXCEED 20,000 lbs (89 kN). **EMBEDMENT STONE:** FILL SURROUNDING THE AASHTO M431 CHAMBERS FROM THE FOUNDATION STONE ('A' CLEAN, CRUSHED, ANGULAR STONE 3, 357, 4, 467, 5, 56, 57 LAYER) TO THE 'C' LAYER ABOVE. FOUNDATION STONE: FILL BELOW CHAMBERS AASHTO M431 PLATE COMPACT OR ROLL TO ACHIEVE A FLAT FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) CLEAN, CRUSHED, ANGULAR STONE 3, 357, 4, 467, 5, 56, 57 OF THE CHAMBER. I. THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 6" (150 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR. WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS. ADS GEOSYNTHETICS 601T NON-WOVEN GEOTEXTILE ALL AROUND PAVEMENT LAYER (DESIGNED CLEAN CRUSHED, ANGULAR STONE IN A & B LAYERS BY SITE DESIGN ENGINEER) TO BOTTOM OF FLEXIBLE PAVEMENT. FOR UNPAVED ISTALLATIONS WHERE RUTTING FROM VEHICLES MAY OCCUR, INCREASE COVER TO 24* (600 mm). PERIMETER STONE (SEE NOTE 6) **EXCAVATION WALL** (CAN BE SLOPED OR VERTICAL)

ACCEPTABLE FILL MATERIALS: STORMTECH SC-310 CHAMBER SYSTEMS

(2.4 m) MAX DEPTH OF STONE TO BE DETERMINED BY SITE DESIGN ENGINEER 6" (150 mm) MIN

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PROJECT

COMPACTION / DENSITY

REQUIREMENT

NO COMPACTION REQUIRED.

SURFACE, 2 3

6" (150 mm)

MIN

(405 mm)

(450 mm) MIN*



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SC-310 CHAMBERS SHALL CONFORM TO THE REQUIREMENTS OF ASTM F2418 "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS", OR ASTM "STANDARD SPECIFICATION FOR POLYETHYLENE (PE) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".

SUBGRADE SOILS

(SEE NOTE 4)

(150 mm) MIN

- SC-310 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS"
- "ACCEPTABLE FILL MATERIALS" TABLE ABOVE PROVIDES MATERIAL LOCATIONS, DESCRIPTIONS, GRADATIONS, AND COMPACTION REQUIREMENTS FOR FOUNDATION, EMBEDMENT, AND FILL MATERIALS.
- THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS.
- PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.

12" (300 mm) MIN

ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.

