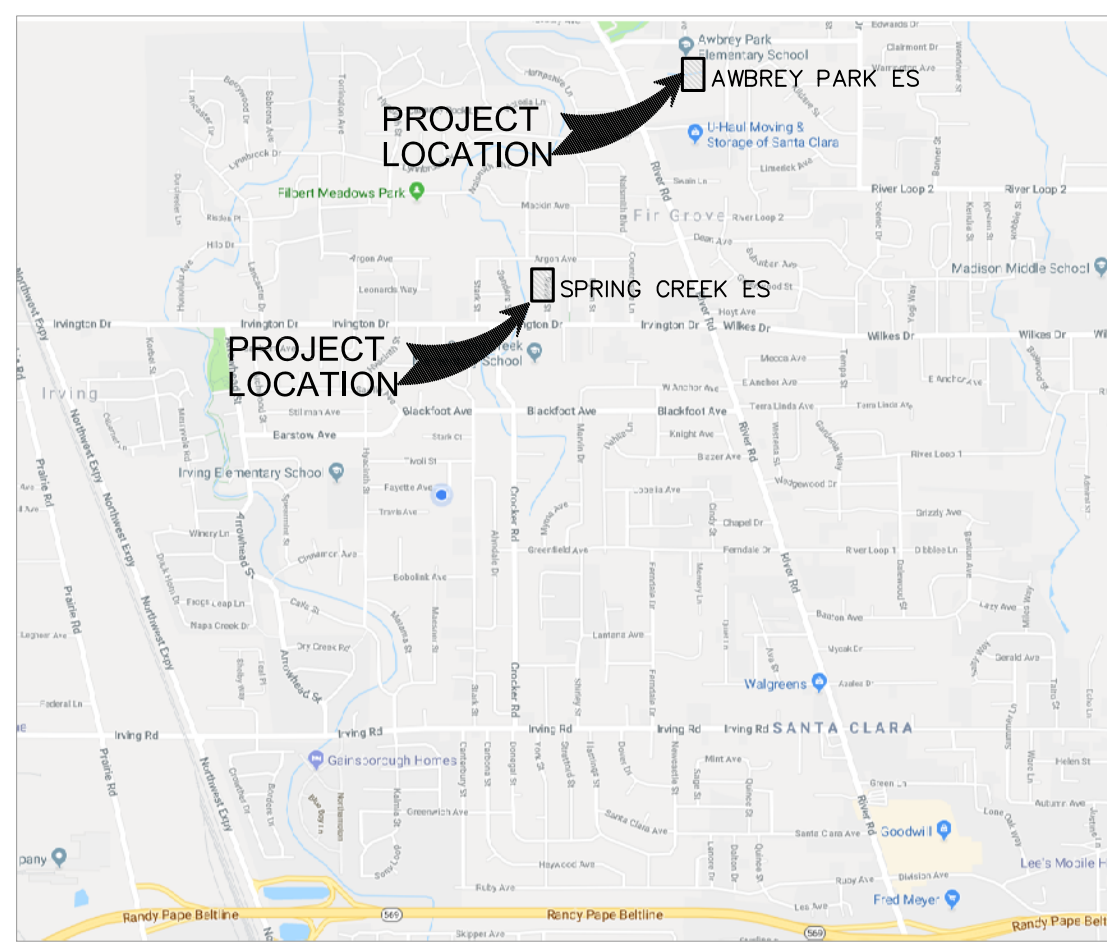


EUGENE SCHOOL DISTRICT 4J  
 AWBREY PARK & SPRING CREEK ELEMENTARY SCHOOLS  
 CONCRETE WALK & STORM DRAIN MAINTENANCE

CIP: 420.109.108



VICINITY MAP  
 NOT TO SCALE

CONTACTS

OWNER'S REPRESENTATIVE:  
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LANDSCAPE ARCHITECT  
 DAVID DOUGHERTY, ASLA  
 DOUGHERTY LANDSCAPE ARCHITECTS  
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 EUGENE, OREGON 97401  
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 FAX (541) 683-8183

CIVIL SHEET INDEX

- C1.0 COVER SHEET, GENERAL NOTES, LEGEND & DETAILS
- C1.1 CIVIL DETAILS
- C2.0 SITE PLAN - AWBREY PARK ES
- C2.1 SITE & PAVING PLAN - SPRING CREEK ES
- C3.0 CONSTRUCTION SITE MANAGEMENT PLAN - AWBREY PARK ES
- C3.1 CONSTRUCTION SITE MANAGEMENT PLAN - SPRING CREEK ES
- C3.2 CONSTRUCTION SITE MANAGEMENT NOTES & DETAILS
- C4.0 STORM DRAIN PLAN - AWBREY PARK ES EAST
- C4.1 STORM DRAIN PLAN - AWBREY PARK ES WEST
- C4.2 STORM DRAIN PLAN - SPRING CREEK ES
- C5.0 PAVING PLAN - AWBREY PARK ES

LANDSCAPE SHEET INDEX

- L1 LANDSCAPE PLAN
- L2 IRRIGATION PLAN

SURVEY LEGEND

●	- CORNERS FOUND: AS NOTED	⊗	- WATER VALVE
⊚	- STORM SEWER MANHOLE	⊗	- FIRE HYDRANT
⊖	- SANITARY SEWER MANHOLE	⊕	- TELEPHONE PEDESTAL
⊙	- AREA DRAIN	⊕	- POWER POLE
⊛	- CONIFER TREE	⊕	- ELECTRIC VAULT
⊙	- DECIDUOUS TREE		

GENERAL NOTES:

- EXISTING TOPOGRAPHIC INFORMATION IS FROM SURVEY PROVIDED BY BAKER & ASSOCIATES:  
 AWBREY PARK ES: MAY 30, 2002; REVISED FEBRUARY 1, 2013; DRAINAGE CHANNEL TOPO MARCH 22, 2018.  
 SPRING CREEK ES: MAY 10, 2002 AND 4J RECORD DRAWINGS.
- ELEVATIONS SHOWN ON THE DRAWING ARE BASED ON:  
 AWBREY PARK ES: CITY OR EUGENE BENCHMARK N-10-23, ELEV 374.42 (NGVD29), 1-1/2" BRASS DISK IN CURB.  
 SPRING CREEK ES: CITY OF EUGENE BENCHMARK N-10-8, ELEV 377.30 (NGVD29), BRASS DISC AT SPRING CREEK ES ENTRANCE.
- INSPECTION BY THE COUNTY OR OTHER AGENCIES SHALL NOT RELIEVE THE CONTRACTOR FROM ANY OBLIGATIONS TO PERFORM THE WORK IN STRICT COMPLIANCE WITH THE APPLICABLE CODES AND AGENCY REQUIREMENTS.
- CONFORM TO OREGON DEPARTMENT OF ENVIRONMENTAL QUALITY STORM WATER PERMIT NO. 1200C FOR CONSTRUCTION ACTIVITIES WHERE 1 ACRE OR MORE ARE DISTURBED. LESS THAN ONE ACRE OF GROUND DISTURBANCE WILL OCCUR WITH THIS PROJECT AND A 1200-C PERMIT IS NOT REQUIRED. HOWEVER, THE CITY MAY REQUIRE A 1200C PERMIT DUE TO SOIL CONDITIONS OR PROXIMITY TO DRAINAGE CHANNELS. REFER TO SHEETS C3.0, C3.1 & C3.2, CSMP'S, FOR REQUIRED PROJECT TEMPORARY EROSION CONTROL MEASURES.

EXISTING UTILITIES & FACILITIES:

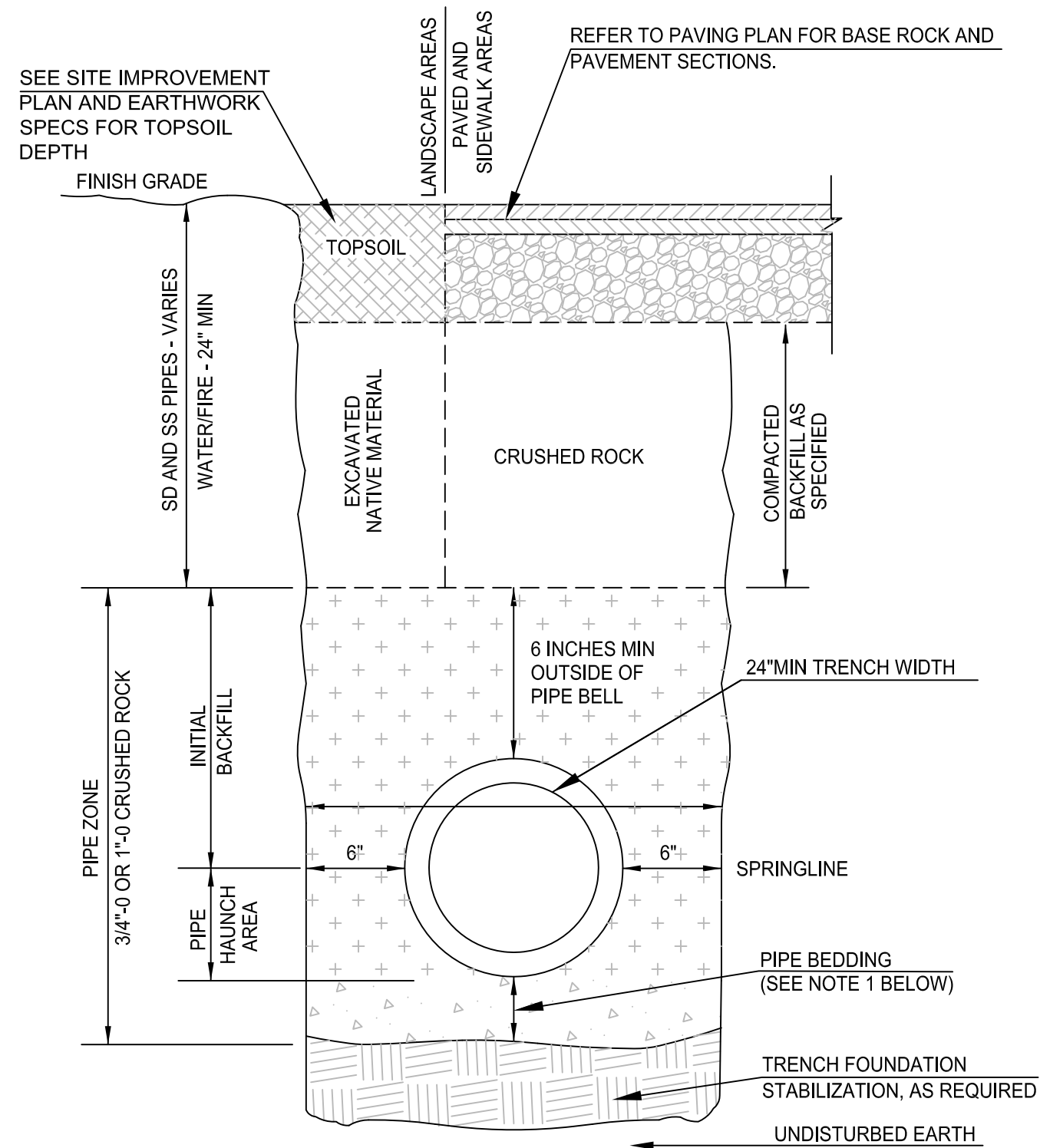
- LOCATION AND DESCRIPTION OF EXISTING UTILITIES SHOWN ON THE DRAWINGS ARE COMPILED FROM AVAILABLE RECORDS OR FIELD SURVEYS. THE OWNER AND UTILITY COMPANIES DO NOT GUARANTEE ACCURACY OR COMPLETENESS OF SUCH RECORDS. VERIFY SIZES AND LOCATIONS OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.
- PER OREGON LAW, FOLLOW RULES ADOPTED BY THE OREGON UTILITY NOTIFICATION CENTER. RULES ARE SET FORTH IN OAR 952-001-00100 THROUGH OAR 952-001-0090. OBTAIN COPIES OF THE RULES FROM OREGON UTILITY NOTIFICATION CENTER (503) 232-1987 OR 1-800-332-2344).
- LOCATE AND MARK EXISTING PROPERTY AND STREET MONUMENTS PRIOR TO CONSTRUCTION. REPLACE MONUMENTS DISTURBED DURING CONSTRUCTION OF PROJECT BY REGISTERED LAND SURVEY RETAINED AT THE CONTRACTOR'S EXPENSE. REPLACE DISTURBED MONUMENTS WITHIN A MAXIMUM OF 90 DAYS, AND NOTIFY COUNTY SURVEYOR IN WRITING AS REQUIRED BY ORS 209.150.
- FIELD VERIFY LOCATION AND DEPTH OF EXISTING UTILITIES WHERE NEW FACILITIES CROSS. CONTRACTOR SHALL BE RESPONSIBLE FOR EXPOSING POTENTIAL UTILITY CONFLICTS FAR ENOUGH AHEAD OF CONSTRUCTIONS TO MAKE NECESSARY GRADE MODIFICATIONS WITHOUT DELAYING THE WORK. IF GRADE MODIFICATION IS NECESSARY, NOTIFY THE ENGINEER FOR COORDINATION. MODIFICATIONS SHALL BE APPROVED PRIOR TO CONSTRUCTION. UTILITY CROSSING SHALL BE POT HOLED AS NECESSARY, PRIOR TO EXCAVATING OR BORING TO PREVENT GRADE ALIGNMENT CONFLICTS.
- MAINTAIN EXISTING FACILITIES IN PLACE UNLESS OTHERWISE SHOWN OR DIRECTED. TAKE PRECAUTIONS NECESSARY TO SUPPORT, MAINTAIN, OR OTHERWISE PROTECT EXISTING UTILITIES AND OTHER FACILITIES AT ALL TIMES DURING CONSTRUCTION. LEAVE EXISTING UTILITIES IN EQUAL OR BETTER-THAN-ORIGINAL CONDITION AND TO THE SATISFACTION OF THE OWNER AND CITY.
- REMOVE UTILITIES OR INTERFERING PORTIONS OF UTILITIES ABANDONED IN PLACE TO EXTENT NECESSARY TO ACCOMPLISH WORK.

GRADING, PAVING, & DRAINAGE:

- REVIEW CONTRACT SPECIFICATIONS FOR EARTHWORK REQUIREMENTS. WORK SHALL CONFORM TO SPECIFICATIONS.
- MANAGE CONSTRUCTION ACTIVITIES TO INSURE THAT PUBLIC STREETS AND RIGHT-OF-WAYS ARE KEPT CLEAN OF MUD, DUST OR DEBRIS. MAINTAIN DUST ABATEMENT BY ADEQUATE WATERING OF THE SITE.
- UNLESS OTHERWISE SHOWN ON DRAWINGS, STRAIGHT GRADES SHALL BE RUN BETWEEN ALL FINISH GRADE ELEVATIONS AND/OR FINISH CONTOUR LINES SHOWN. MATCH FINISH PAVEMENT GRADES AT TRANSITION TO EXISTING PAVEMENT EXISTING OR BE FEATHERED PAST JOINTS WITH EXISTING PAVEMENT AS REQUIRED TO PROVIDE SMOOTH, FREE DRAINING SURFACE.
- ADJUST EXISTING OR CONSTRUCTED MANHOLES, CLEAN OUTS, MONUMENTS, WATER VALVES AND SIMILAR STRUCTURES TO MATCH FINISH GRADE OF PAVEMENT, SIDEWALK OR LANDSCAPED AREA WHERE IT LIES.
- UNLESS OTHERWISE SHOWN ON THE DRAWINGS, NO CUT OR FILL SLOPES SHALL BE CONSTRUCTED STEEPER THAN 4H:1V.
- GRADING SHOWN ON THE DRAWINGS IS CRITICAL TO FUNCTIONING OF STORM DRAIN SYSTEM AND SHALL BE STRICTLY FOLLOWED.

CURBS & SIDEWALKS

- UNLESS OTHERWISE SHOWN OR INDICATED ON THE DRAWINGS, 6-INCHES NOMINAL CURB USED FOR DESIGN OF ALL PARKING LOT AND ROAD GRADES.
- CURB QUANTITIES SHOWN ARE FOR THE PURPOSE OF IDENTIFYING CURB TYPE. ACTUAL QUANTITIES MAY VARY. PROVIDE QUANTITIES REQUIRED FOR LAYOUT SHOWN.
- CONSTRUCT SIDEWALKS AND VEHICLE PAVEMENTS TO THE FULL THICKNESS SHOWN.
- WHERE WORK REQUIRES REMOVAL OF EXISTING PCC CURBS AND/OR SIDEWALKS, SAW CUT AND REMOVE THE CURBS AND/OR SIDEWALKS AT TOOLED JOINTS. SAW CUT LINES SHOWN ON THE DRAWINGS ARE SCHEMATIC AND NOT INTENDED TO SHOW THE EXACT ALIGNMENT OF SUCH CUTS.



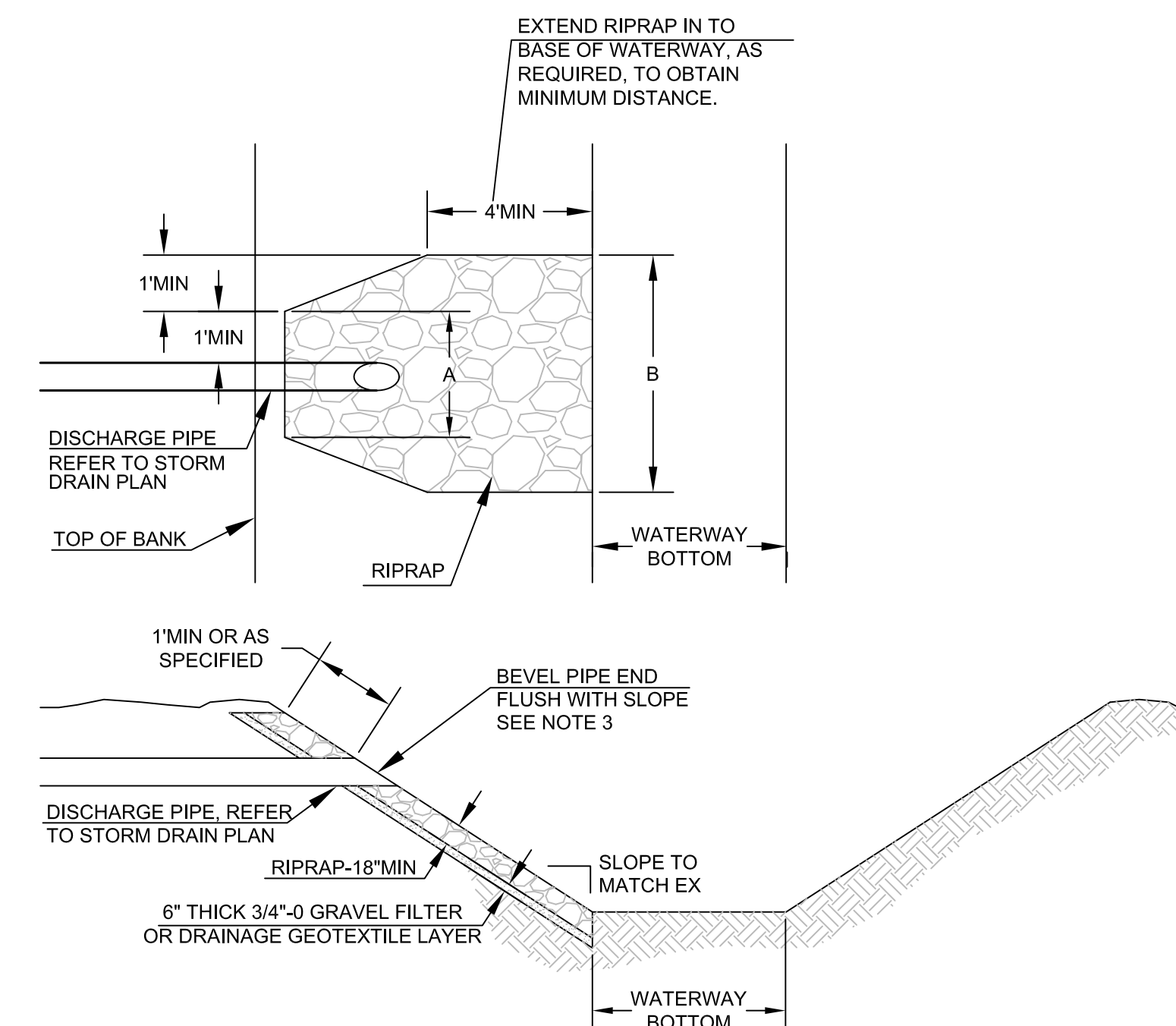
A TRENCHING AND BACKFILL  
 NO SCALE

PIPE UTILITIES:

- COORDINATE WITH SERVING UTILITY COMPANY. INSTALLING UTILITIES ON SITE. CONSTRUCTION OF OTHER UTILITIES ON SITE MAY OCCUR AT THE SAME TIME.
- ABANDON EXISTING STORM DRAIN NOT SCHEDULED TO REMAIN IN SERVICE - REMOVE OR FILL WITH CDF.
- PROVIDE FITTINGS AS REQUIRED TO COMPLETE PIPE CONNECTIONS AND TRANSITIONS PER PLANS, CONFORMING TO TRENCHING REQUIREMENTS AND SITE GRADES.
- MANHOLE RIM ELEVATIONS ARE APPROXIMATE. FINAL RIM ELEVATIONS MAY VARY AND SHALL MATCH ELEVATIONS OF ADJACENT SURFACES.
- PROVIDE ALL MATERIALS, EQUIPMENT AND FACILITIES REQUIRED FOR TESTING UTILITY PIPING IN ACCORDANCE WITH CONSTRUCTION SPECIFICATIONS.
- TRACER WIRE. AT NONMETALLIC WATER, SANITARY AND STORM SEWER PIPING PROVIDE ELECTRICALLY CONDUCTIVE INSULATED 12 GAUGE COPPER TRACER WIRE THE FULL LENGTH OF THE INSTALLED PIPE USING BLUE WIRE FOR WATER AND GREEN FOR STORM AND SANITARY PIPING. EXTENDED TRACER WIRE UP INTO MANHOLES AND CATCH BASINS. TRACER WIRE PENETRATIONS INTO MANHOLES SHALL BE WITHIN 18-INCHES OF THE RIM ELEVATION AND ADJACENT TO MANHOLE STEPS. THE TRACER WIRE TO THE TOP MANHOLE STEP OR OTHERWISE SUPPORTED TO ALLOW RETRIEVAL FROM OUTSIDE OF THE MANHOLE.
- COORDINATE WITH PLUMBING INSPECTOR PRIOR TO CONNECTION OF PRIVATE STORM PIPING TO EXISTING SYSTEMS.

STORM DRAIN

- STORM DRAIN PIPE MATERIALS SHALL CONFORM TO THE CONSTRUCTION DRAWINGS AND SPECIFICATIONS. USE UNIFORM PIPE MATERIAL ON EACH PIPE RUN BETWEEN STRUCTURES UNLESS OTHERWISE DIRECTED OR APPROVED. JOINTED HDPE PIPE SHALL NOT BE USED FOR SLOPES EXCEEDING TEN PERCENT (10%).
- SET CATCH BASINS SQUARE WITH BUILDINGS OR WITH THE EDGE OF THE PARKING LOT OR STREET WHEREIN THEY LIE. ADJUST STORM DRAIN INLET STRUCTURES AND PAVING SO WATER FLOWS INTO THE STRUCTURE WITHOUT PONDING WATER.
- UNLESS OTHERWISE APPROVED, ALL STORM DRAIN CONNECTIONS SHALL BE MANUFACTURED TEES AND SADDLES.
- SWEEP (DEFLECT) STORM DRAIN PIPE INTO CATCH BASINS AND MANHOLES AS REQUIRED. MAXIMUM JOINT DEFLECTION SHALL NOT EXCEED 5 DEGREES OR MANUFACTURERS RECOMMENDATIONS, WHICHEVER IS LESS.
- UNLESS OTHERWISE SPECIFIED OR DIRECTED, INSTALL STORM DRAIN PIPE IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION GUIDELINES.



PIPE DIA	A	B	RIPRAP CLASS	(HAND PLACED)
<12"	3'	3'	50	
>12"	PIPE DIA + 2'	PIPE DIA + 4'	100	

NOTES:

- RIPRAP MATERIAL SHALL BE PER SPECIFICATIONS.
- RIPRAP SHALL BE AS SPECIFIED (SEE RIPRAP CHART) OR CLASS 100 MINIMUM.
- BEVELED PIPE ENDS SHALL BE AS MANUFACTURED OR AS APPROVED BY ENGINEER.

1 STORM DRAIN OUTFALL  
 NO SCALE

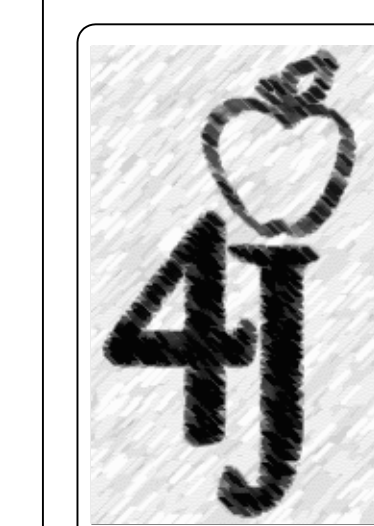
CIVIL LEGEND

SYMBOL	ABBR.	DESCRIPTION	ABBR.	DESCRIPTION	ABBR.	DESCRIPTION
---	SD	EX STORM DRAIN	4J	EUGENE SCHOOL DISTRICT 4J	GAL	GALLONS
---	SS	EX SANITARY SEWER	AC	ASPHALT CONCRETE	LF	LINEAR FEET
---	W	EX WATER	APPROX	APPROXIMATE	MAX	MAXIMUM
---	G	EX NATURAL GAS OR PROPANE	BLDG	BUILDING	ME	MATCH EXISTING
---	UG ELEC	EX UNDERGROUND ELECTRIC	CONST	CONSTRUCT	MIN	MINIMUM
---	E	EX UNDERGROUND ELECTRIC	CDF	CONTROLLED DENSITY FILL	NWN	NORTHWEST NATURAL
---	TELECOM	EX TELECOMMUNICATIONS	CFS	CUBIC FEET PER SECOND	NIC	NOT IN CONTRACT
---	CCTV	EX CLOSED CIRCUIT TV	CL	CENTERLINE	OC	ON CENTER
---	IRR	EX IRRIGATION	CY	CUBIC YARDS	PCC	PORTLAND CEMENT CONCRETE
→		STORM WATER SHEET FLOW	DESC	DESCRIPTION		
AD	AD	AREA DRAIN	DIA	DIAMETER	PSI	POUNDS PER SQUARE INCH
⊗	CB	CATCH BASIN	DIST	DISTANCE	PT	POINT
⊗	CO	CLEANOUT	ELEV	ELEVATION	SF	SQUARE FOOT
●	MH	MANHOLE	EQ	EQUAL	TC	TOP OF CURB
⊙		CONSTRUCTION NOTE	EX	EXISTING	TG	TOP OF GRAVEL
⊕		SECTION REFERENCE	EWEB	EUGENE WATER AND ELECTRIC BOARD	TP	TOP OF PAVEMENT
⊕		DETAIL REFERENCE	FFE	FINISHED FLOOR ELEVATION	TW	TOP OF WALK
↘		SLOPE ARROW	FG	FINISHED GRADE	TYP	TYPICAL
			FS	FINISHED SURFACE		
			FT	FOOT		



EXPIRATION DATE: 12/31/18

PROJECT TITLE



Facilities Management  
 School District 4J  
 715 W. 4th Avenue  
 Eugene, OR 97402  
 (541) 687-3257

AWBREY PARK & SPRING CREEK  
 ELEMENTARY SCHOOLS - CONCRETE WALK  
 & STORM DRAIN MAINTENANCE  
 AWBREY PARK - 158 SPRING CREEK DRIVE, EUGENE, OR 97404  
 SPRING CREEK - 560 IRVINGTON DRIVE, EUGENE, OR 97404

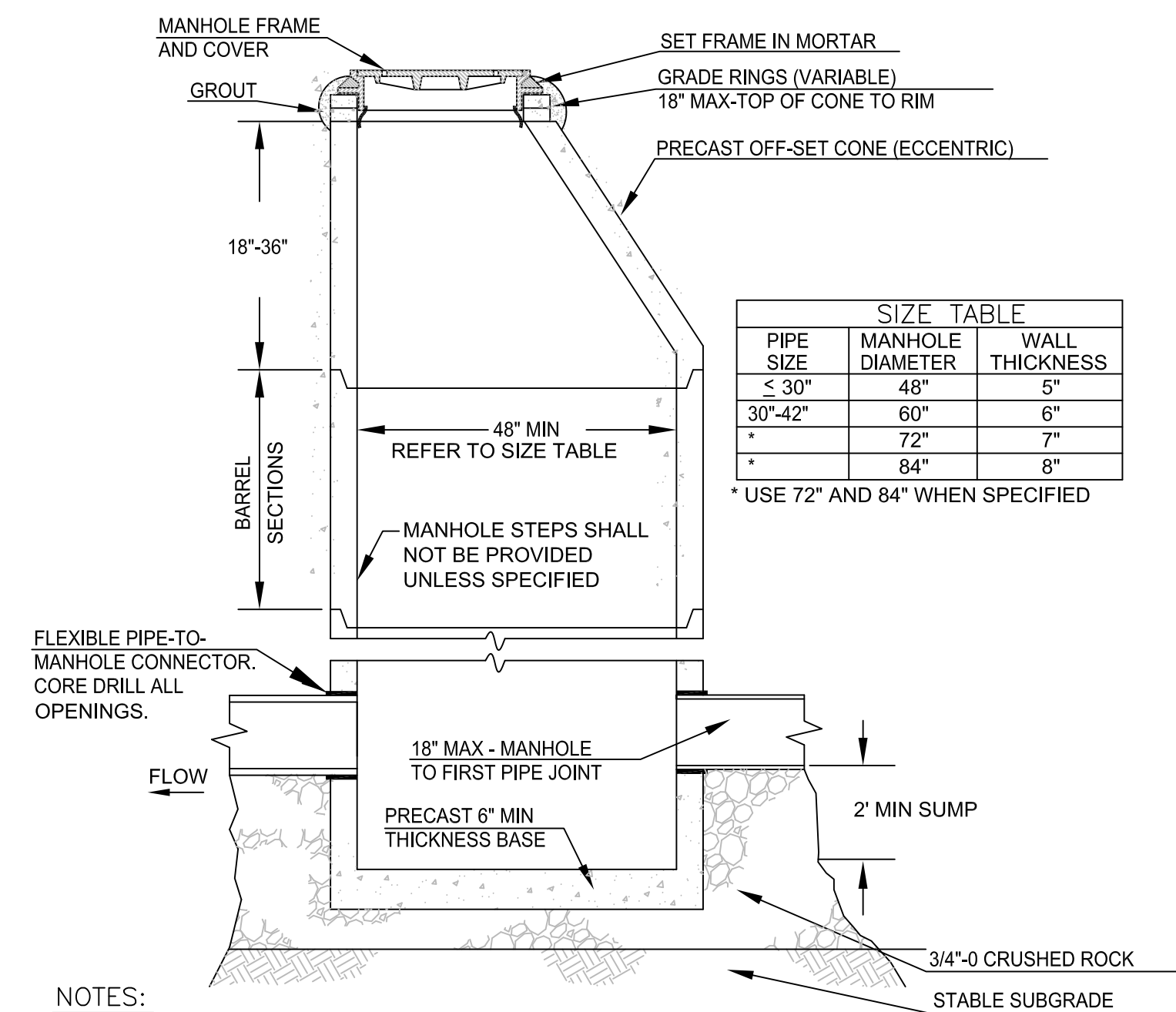
REVISIONS		
SYM	DATE	REFERENCE

PROJECT: 171601  
 DRAWN: BJR  
 CHECKED: BJR  
 DATE: 04/30/2018  
 DRAWING TITLE

COVER SHEET,  
 GENERAL NOTES,  
 LEGEND AND DETAILS

DRAWING NUMBER

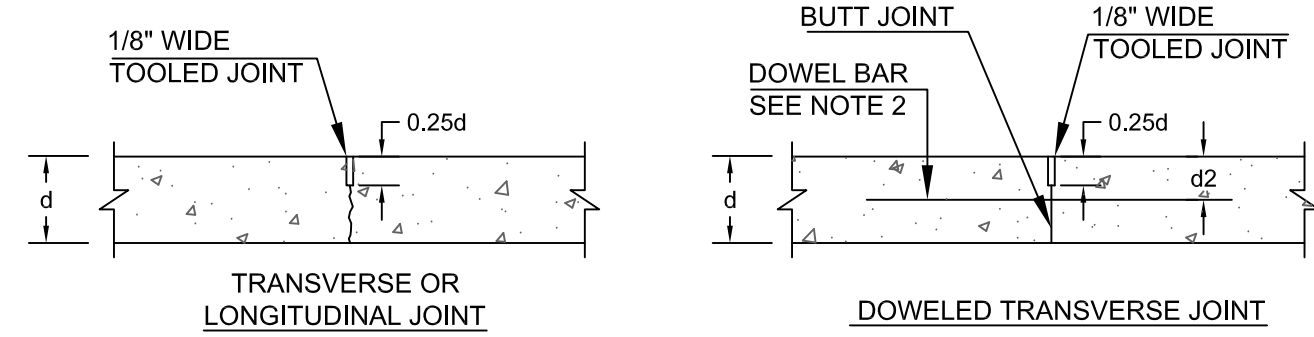
**C1.0**



- NOTES:**
- CONCENTRIC CONE ALLOWED ONLY WHEN SPECIFIED.
  - FLEXIBLE PIPE-TO-MANHOLE CONNECTIONS SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS. INSTALL SEAL OR GROUT, AS SPECIFIED, BETWEEN MANHOLE AND PIPE TO FORM A WATERTIGHT SEAL. PIPES TO BE TRIMMED FLUSH WITH MANHOLE INTERIOR. GROUT BETWEEN TRIMMED PIPE AND MANHOLE WALL TO PROVIDE A SMOOTH TRANSITION.
  - WATER TIGHT JOINTS, O-RING OR MASTIC KEYLOCK JOINTS REQUIRED (GROUT JOINTS SMOOTH AT MANHOLE INTERIOR).
  - POSITION MANHOLE LID OVER OUTLET PIPE.
  - ALL SECTIONS MUST MEET OR EXCEED ASTM C 478.
  - FLAT-TOP MANHOLE ACCEPTABLE ALTERNATE (SEE SHALLOW MANHOLE DETAIL). USE SHALLOW MANHOLE WITH 2" SUMP WHERE DISTANCE BETWEEN RIM AND FLOWLINE IS 4-1/2" OR LESS.
  - TRACER WIRE: WIRE SHALL ENTER STRUCTURE UNDER RISER AND DIRECTLY ABOVE THE PIPE THAT WIRE IS TRACING. PROVIDE ENOUGH FREE WIRE TO EXTEND 18" ABOVE THE TOP OF MANHOLE COVER TO FACILITATE TESTING. COIL WIRE AND SECURE WITH NON-CORROSIVE FASTENER 2" UNDER FRAME.
  - BACKFILL AROUND BASE SECTION USING CRUSHED ROCK IN PAVED OR SIDEWALK AREAS, OR NATIVE MATERIALS IN LANDSCAPE AREAS.
  - LOCATION SPECIFIED ON PLAN INDICATES CENTER BASE SECTION.

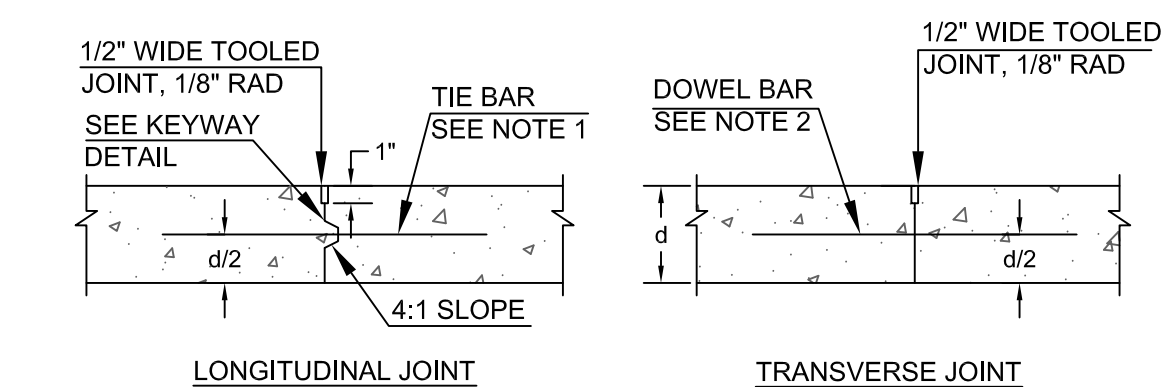
**1 STANDARD STORM MANHOLE**  
NO SCALE

- NOTES:**
- TIE BARS SHALL BE (#5) 5/8"x2'-6" @ 3'-0", DEFORMED GRADE 40 OR BETTER, EPOXY COATED.
  - DOWEL BARS SHALL BE SIZED AS SHOWN IN THE TABLE, SMOOTH ROUND GRADE 60 OR BETTER, EPOXY COATED AND GREASED.
  - NEW TO EX JOINTS: USE DOWEL BARS FOR TRANSVERSE JOINTS, TIE BARS FOR LONGITUDINAL JOINTS.
  - JOINT OFFSETS AT RADIUS POINTS SHOULD BE AT LEAST 1'-6" LONG
  - WHEN A JOINT IS CLOSER THAN 1'-0" TO A CASTING, THEN A MINOR ADJUSTMENT IN THE JOINT LOCATION SHOULD BE MADE BY SKEWING OR SHIFTING THE JOINT ALIGNMENT TO MEET THE CASTING AT 90° OR NORMAL TO THE CASTING.
  - DOWEL BARS SHALL NOT BE PLACED WITHIN 1'-0" OF THE EDGE OF PAVEMENT OR A PARALLEL JOINT



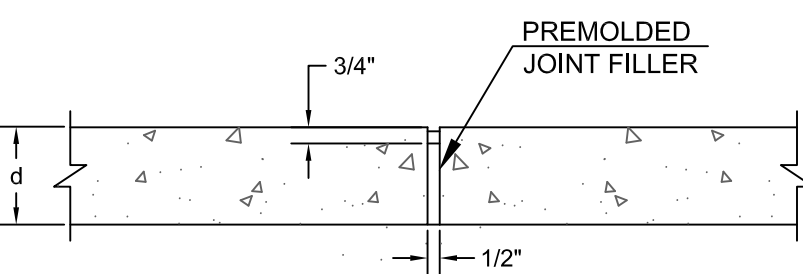
NOTE: PROVIDE DOWELED JOINTS WHERE INDICATED ON PLANS. ALL OTHER CONTRACTION JOINTS TO BE NON-DOWELED.

**A CONTRACTION (CONTROL) JOINTS**



IF  $d < 10"$  ELIMINATE KEYWAY AND USE ONLY TIE BAR.

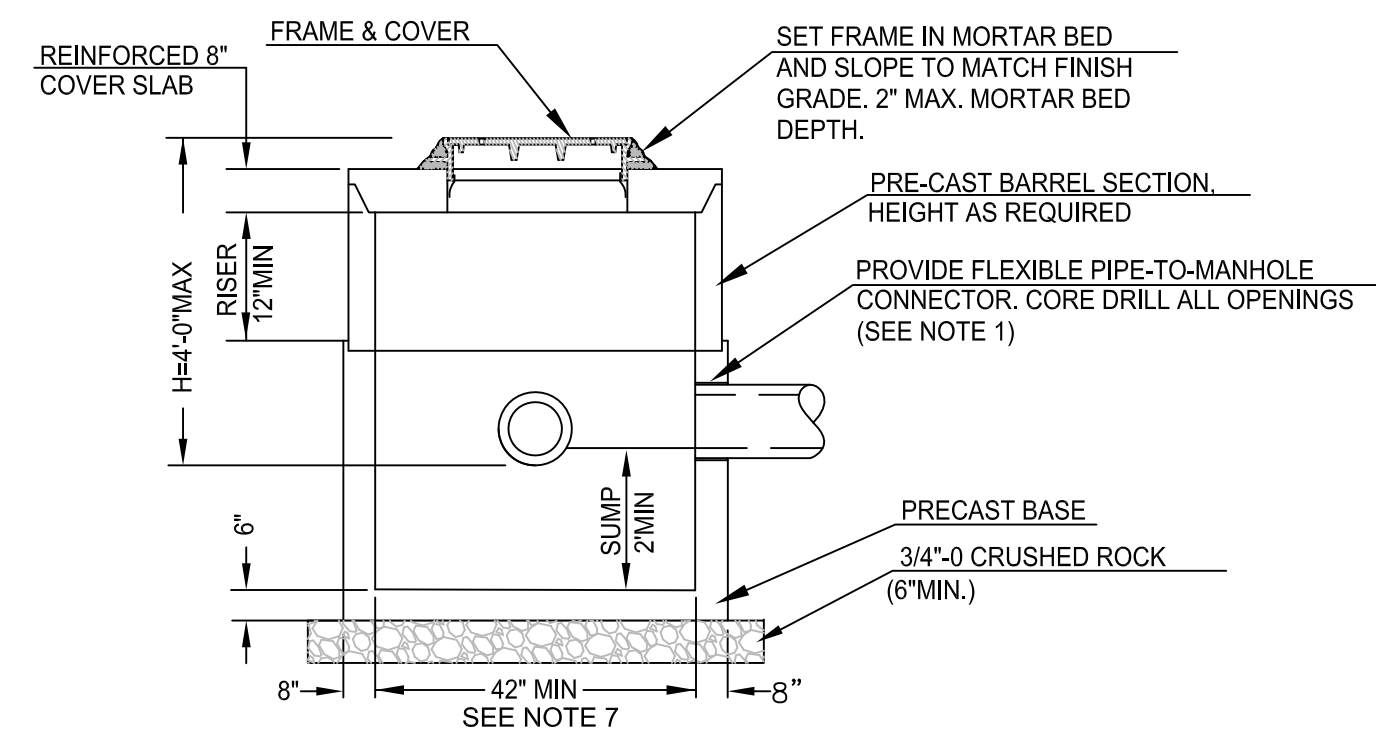
**B CONSTRUCTION JOINTS**



**6 JOINTING DETAILS**  
NO SCALE

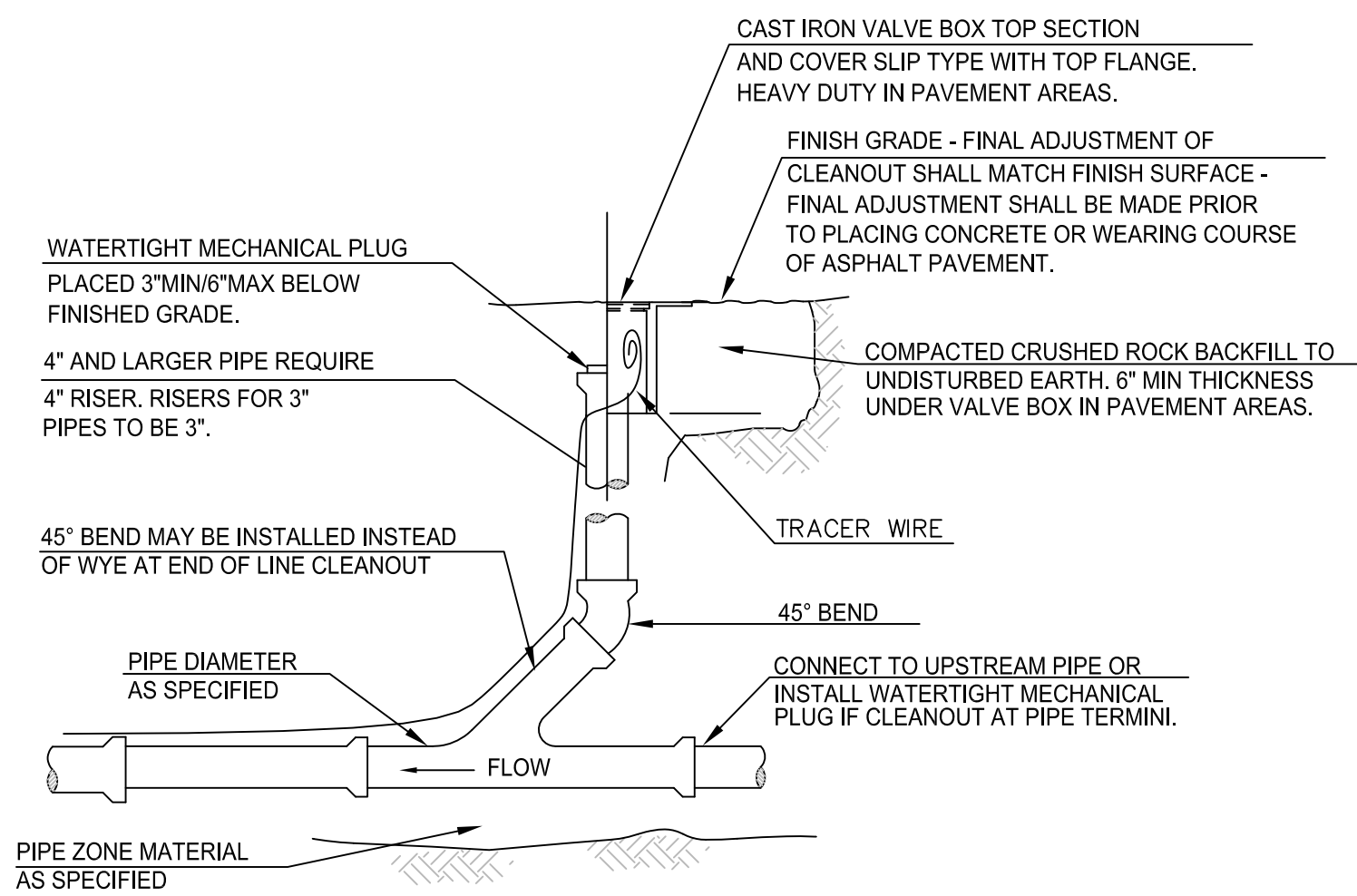
**DOWEL BAR TABLE**

PAVEMENT THICKNESS	DOWEL BAR SIZE
6" TO 8"	(#8) 1"x18" @12"
9" TO 11"	(#10) 1-1/4"x18" @12"
12" & OVER	(#14) 1-1/2"x18" @12"



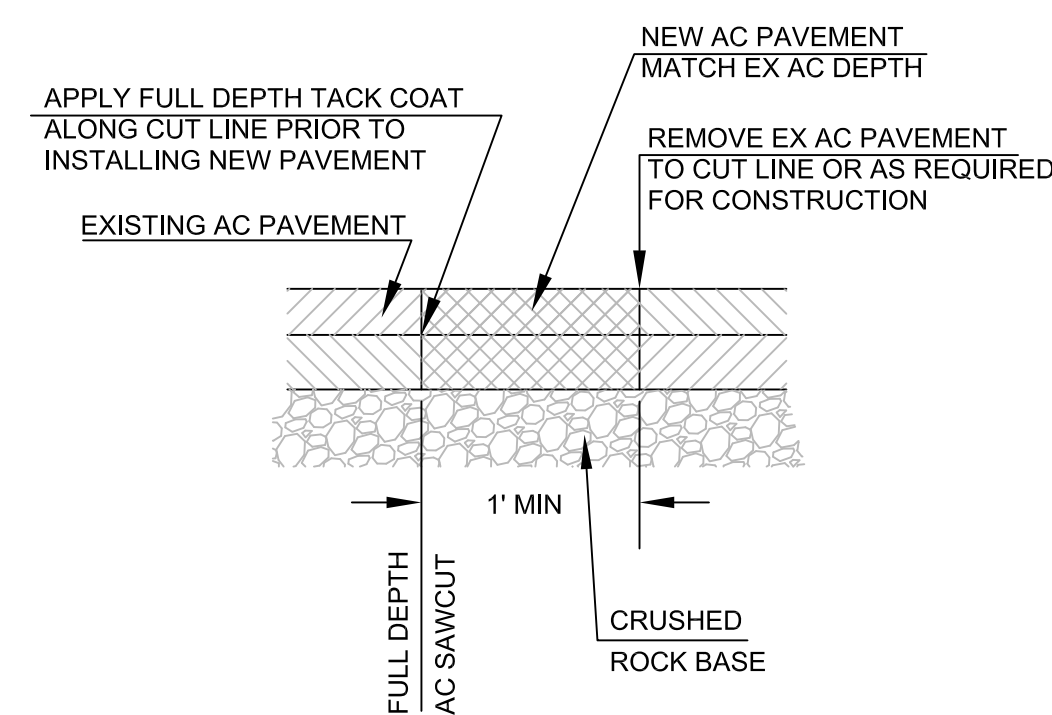
- NOTES:**
- FLEXIBLE PIPE-TO-MANHOLE CONNECTIONS SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS. INSTALL SEAL OR GROUT, AS SPECIFIED, BETWEEN MANHOLE AND PIPE TO FORM A WATERTIGHT SEAL. PIPES TO BE TRIMMED FLUSH WITH MANHOLE INTERIOR. GROUT BETWEEN TRIMMED PIPE AND MANHOLE WALL TO PROVIDE A SMOOTH TRANSITION.
  - WATER TIGHT JOINTS, O-RING OR MASTIC KEYLOCK JOINTS REQUIRED (GROUT JOINTS SMOOTH AT MANHOLE INTERIOR).
  - ALL MANHOLE SECTIONS MUST MEET OR EXCEED ASTM C 478.
  - TRACER WIRE: WIRE SHALL ENTER STRUCTURE UNDER RISER AND DIRECTLY ABOVE THE PIPE THAT WIRE IS TRACING. PROVIDE ENOUGH FREE WIRE TO EXTEND 18" ABOVE TOP OF MANHOLE COVER TO FACILITATE TESTING. COIL WIRE AND SECURE WITH NON-CORROSIVE FASTENER 2" UNDER FRAME.
  - BACKFILL AROUND BASE SECTION USING CRUSHED ROCK IN PAVED OR SIDEWALK AREAS, OR NATIVE MATERIALS IN LANDSCAPE AREA.
  - LOCATION SPECIFIED ON PLAN INDICATES CENTER BASE SECTION
  - OR AS REQUIRED TO ACCOMMODATE PIPE SIZES AND INSTALLATION LOCATIONS/ANGLES.

**2 SHALLOW STORM MANHOLE**  
NO SCALE

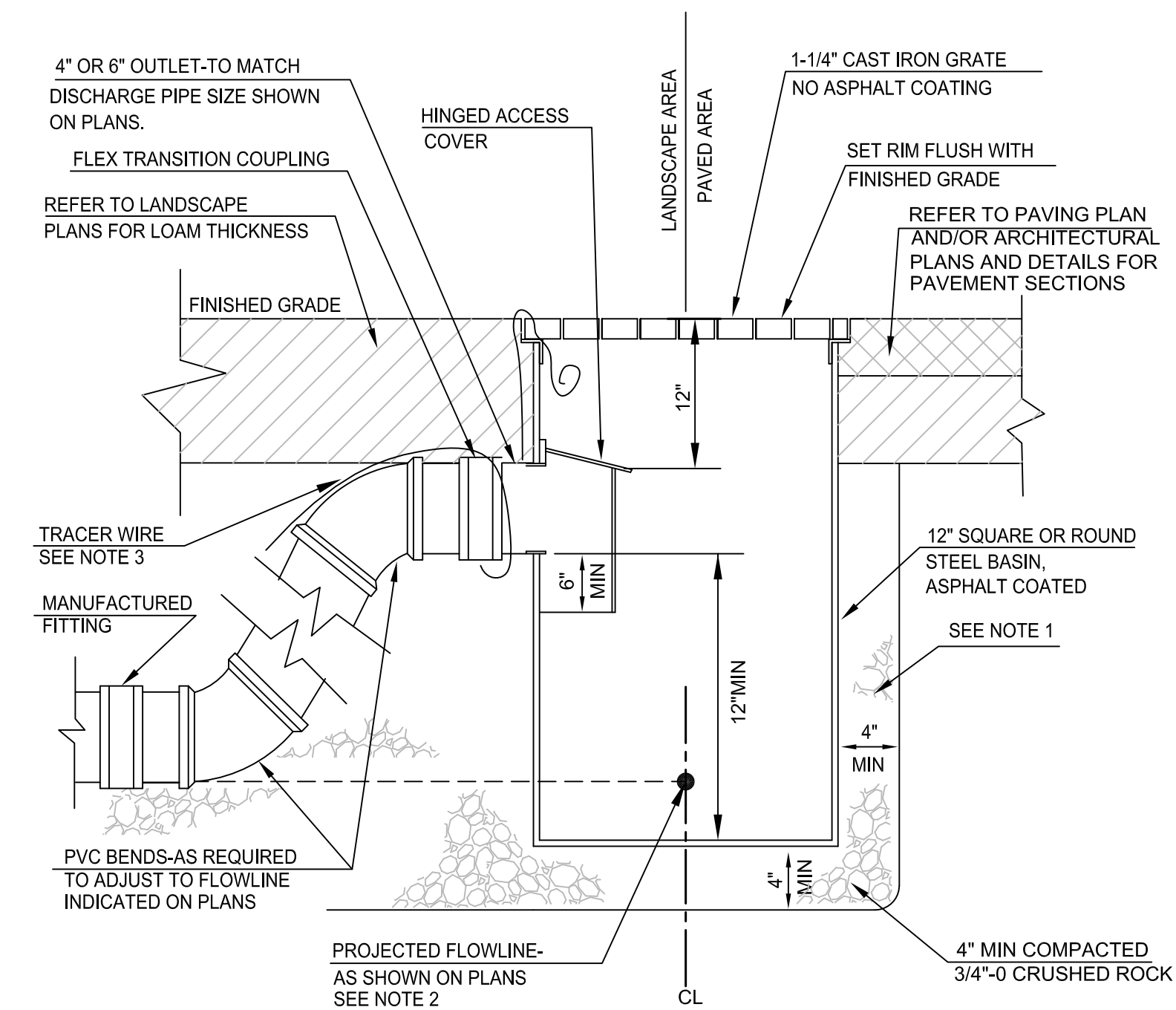


- NOTES:**
- TRACER WIRE SHALL BE WRAPPED AROUND THE TOP OF THE RISER PIPE. LEAVE 18 INCHES OF FREE WIRE COILED INSIDE OF THE VALVE BOX.
  - CLEANOUT PIPE AND FITTINGS SHALL BE THE SAME MATERIAL AS THE MAIN PIPE.

**4 STANDARD CLEANOUT**  
NO SCALE

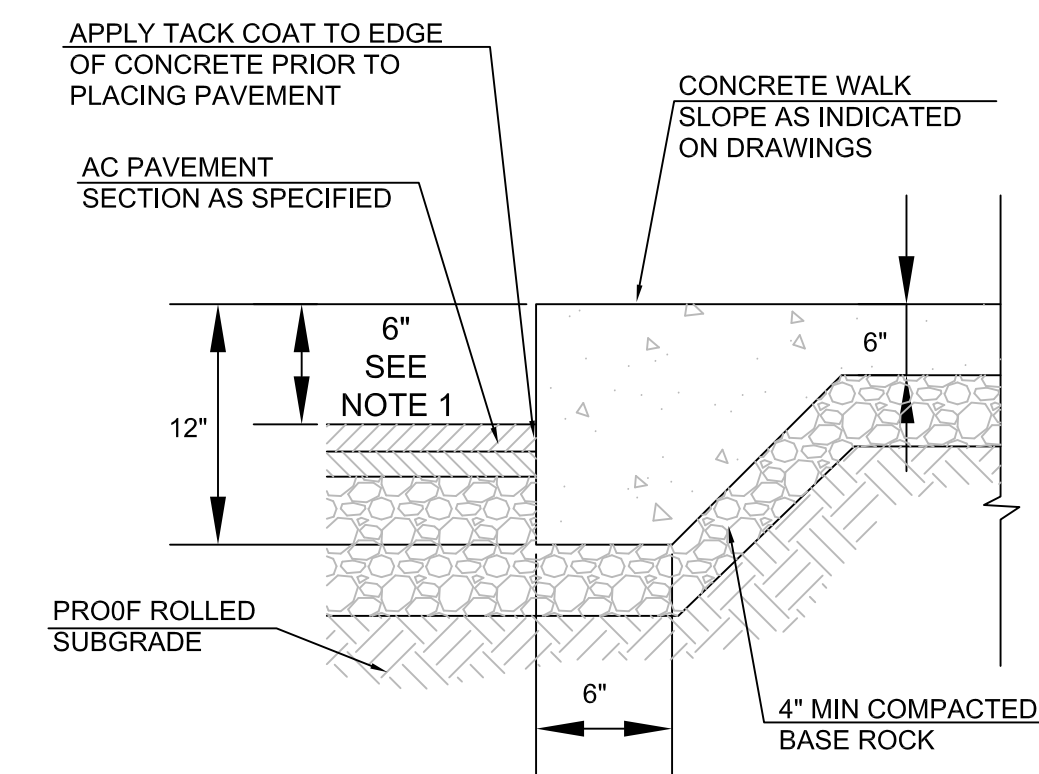


**7 TYPICAL SAWCUT SECTION**  
NO SCALE



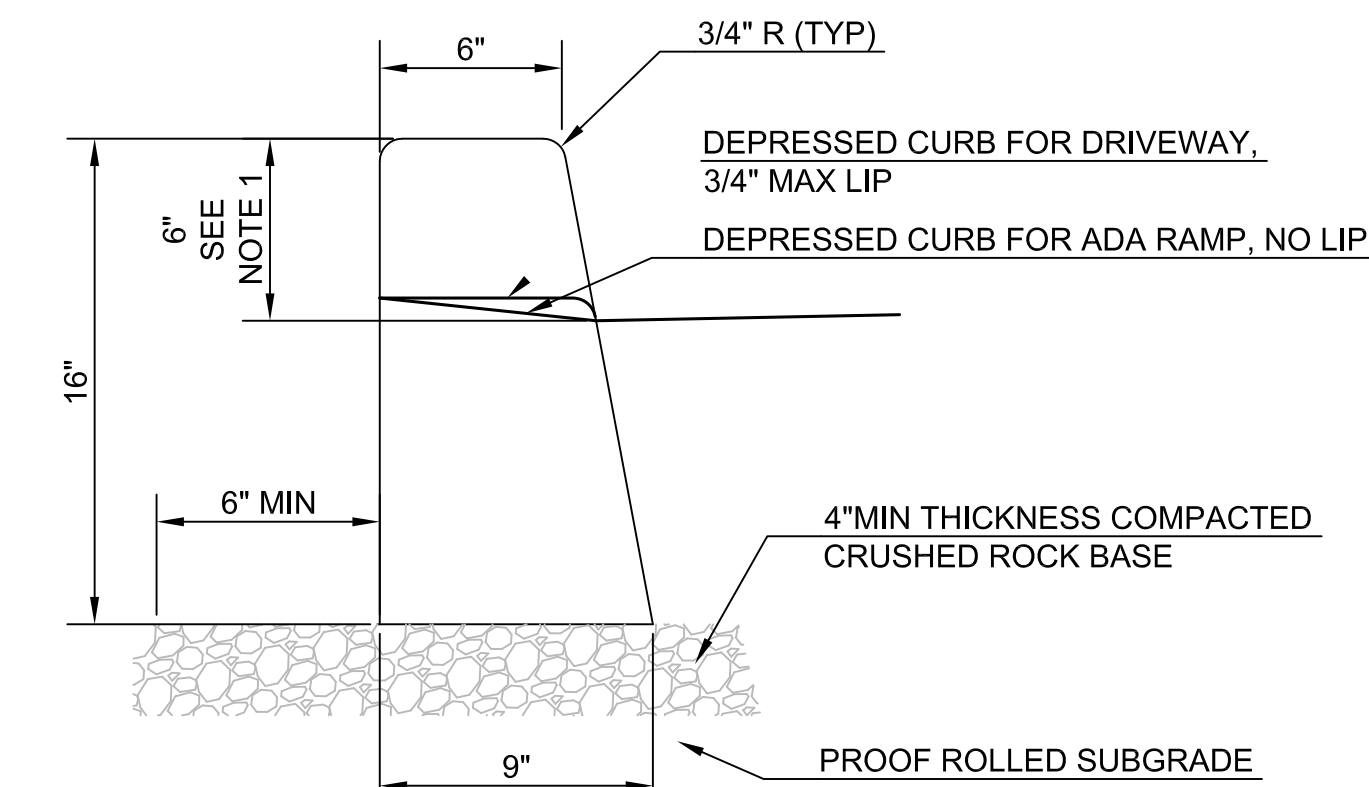
- NOTES:**
- BACKFILL AROUND BASIN IN PAVED OR SIDEWALK AREAS TO BE CRUSHED ROCK, NATIVE MATERIALS IN LANDSCAPE AREAS.
  - LOCATION SPECIFIED ON PLAN INDICATES CENTER OF BASIN
  - TRACER WIRE SHALL BE WRAPPED AROUND PIPE OUTSIDE AREA DRAIN. EXTEND WIRE INTO TOP OF AREA DRAIN. COIL WIRE AND SECURE WITH NON-CORROSIVE FASTENER 2" UNDER GRATE. LEAVE ENOUGH WIRE TO EXTEND 18" ABOVE AREA DRAIN RIM.

**3 AREA DRAIN**  
NO SCALE



- NOTES:**
- 6" EXPOSURE UNLESS SHOWN OTHERWISE ON GRADING PLAN.

**5 THICKENED EDGE SIDEWALK**  
NO SCALE



- NOTES:**
- 6" EXPOSURE UNLESS SHOWN OTHERWISE ON GRADING PLAN.
  - CURB SHALL HAVE 8" DEEP CONTROL JOINTS AT MAX 15' SPACING.
  - EXTEND CRUSHED ROCK BASE 6" MIN BEYOND BACK OF CURB.

**8 FULL DEPTH CURB**  
NO SCALE

EXPIRATION DATE: 12/31/18

PROJECT TITLE



Facilities Management  
School District 4J  
715 W. 4th Avenue  
Eugene, OR 97402  
(541) 687-3257

**AWBREY PARK & SPRING CREEK  
ELEMENTARY SCHOOLS - CONCRETE WALK  
& STORM DRAIN MAINTENANCE**  
AWBREY PARK - 158 SPRING CREEK DRIVE, EUGENE, OR 97404  
SPRING CREEK - 560 IRVINGTON DRIVE, EUGENE, OR 97404

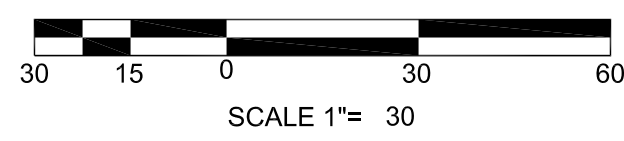
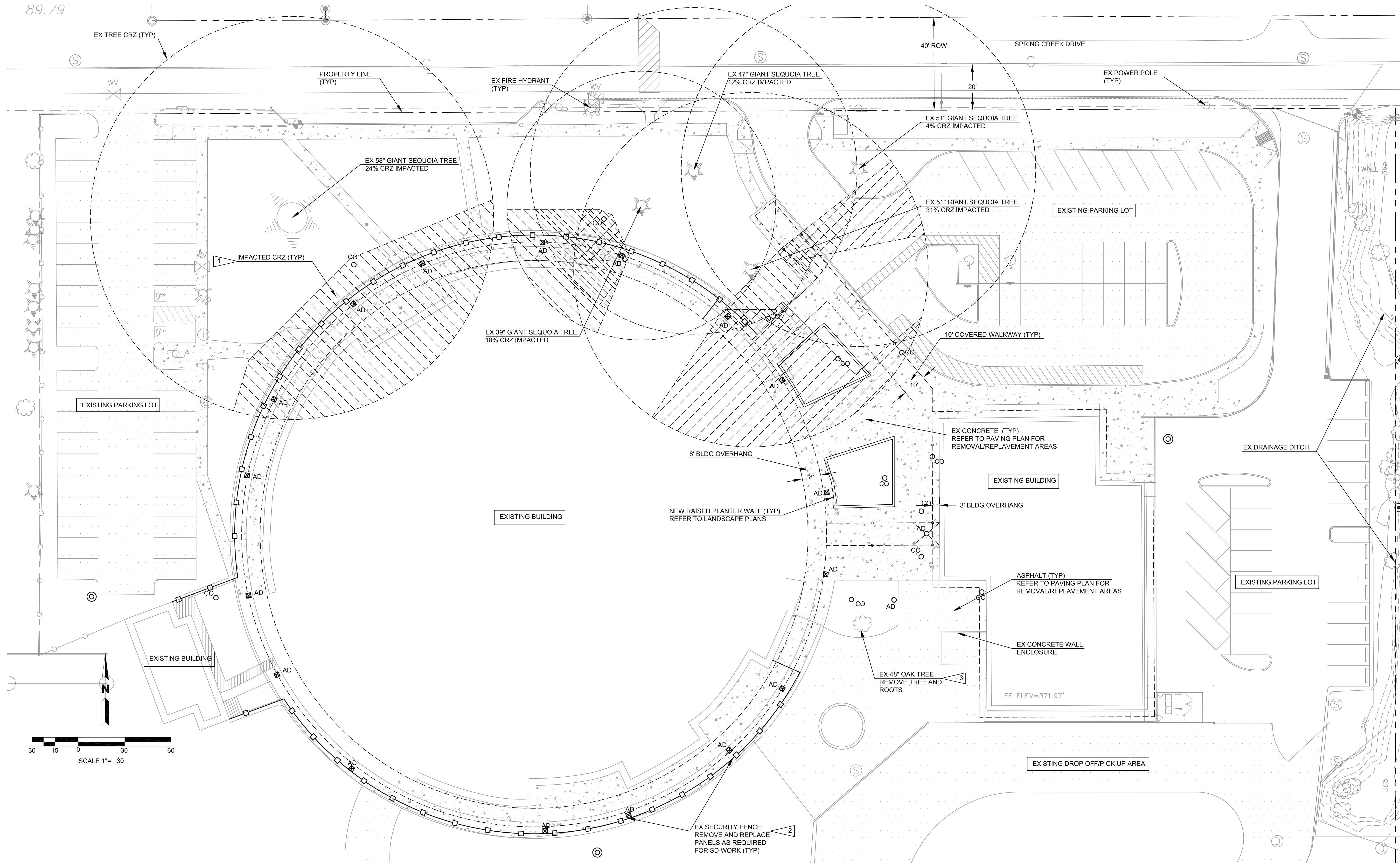
**REVISIONS**

SYM	DATE	REFERENCE

PROJECT: 171601  
DRAWN: BJR  
CHECKED: BJR  
DATE: 04/30/2018  
DRAWING TITLE  
**DETAILS**  
DRAWING NUMBER

**C1.1**

89.19'



**TREE PROTECTION NOTES:**

1. INSTALL PROTECTIVE FENCING AROUND DESIGNATED TREES TO SURROUND THE ZONE OF PROTECTION EXCEPT AS NECESSARY TO COMPLETE THE REQUIRED WORK. MARK PROPOSED LOCATION OF FENCING WITH PAINT OR WOODEN STAKES FOR REVIEW BY THE OWNER. MAKE ADJUSTMENTS TO FENCING LOCATIONS OR ALIGNMENT AS REQUIRED BY THE OWNER. INSTALL FENCING PRIOR TO START OF CONSTRUCTION.
2. PARKING AND DRIVING OF CONSTRUCTION EQUIPMENT THROUGH ZONE IS NOT ALLOWED. PREVENT SOIL COMPACTION OVER ROOT SYSTEMS.
3. DO NOT EXCAVATE WITHIN THE ZONE UNLESS INDICATED ON THE PLANS.
4. WHERE EXCAVATION IS REQUIRED WITHIN THE TREE PROTECTION ZONE, HAND DIG OR AIR SPADE TO MINIMIZE DAMAGE TO ROOT SYSTEMS.
5. PROVIDE BRIDGING OR PROTECTIVE PLANKING WHERE EQUIPMENT OPERATES.
6. RELOCATE ROOTS IN BACKFILL AREAS WHERE POSSIBLE. IF RELOCATION OF ROOTS IS NOT PRACTICAL, ROOTS MAY BE CUT IF APPROVED BY THE OWNER.
7. UTILITY TRENCHES: DO NOT CUT MAIN LATERAL ROOTS OR TAP ROOTS; CUT ONLY SMALLER ROOTS THAT INTERFERE WITH INSTALLATION OF UTILITIES. OBTAIN OWNER APPROVAL PRIOR TO CUTTING ROOTS LARGER THAN TWO INCHES (2") IN DIAMETER.
8. REGRADING: HAND GRADE WITHIN ZONE OF PROTECTION TO REQUIRED FINISH ELEVATIONS.
9. ALL ROOT CUTS ARE TO BE WITH AN APPROVED ROOT-PRUNING DEVICE. MAKE CLEAN CUTS. DO NOT LEAVE SPLIT OR FRAYED ENDS.
10. DO NOT ALLOW EXPOSED ROOTS TO DRY OUT PRIOR TO PLACING PERMANENT BACKFILL. PROVIDE TEMPORARY EARTH COVER OR PACK WITH PEAT MOSS AND WRAP WITH BURLAP. WATER AND MAINTAIN IN A MOIST CONDITION. TEMPORARILY SUPPORT AND PROTECT ROOTS FROM DAMAGE UNTIL THEY ARE PERMANENTLY RELOCATED AND COVERED WITH SOIL.
11. TREE BRANCHES THAT INHIBIT CONSTRUCTION EQUIPMENT OPERATION, MAY BE REMOVED ONLY AS APPROVED BY THE OWNER.
12. ACTIVITIES PROHIBITED WITHIN THE ZONE INCLUDE, BUT ARE NOT LIMITED TO: CONSTRUCTION OPERATION OF MACHINERY, STORAGE OF MATERIALS, PAVING, GRADING, CUTTING, FILLING, TRAVEL WITHIN, DUMPING, DISPOSAL OF LIQUIDS, AND PARKING OF EQUIPMENT AND VEHICLES. WHERE CONSTRUCTION IS WITHIN THIS AREA, SPECIAL PROVISIONS OUTLINED ABOVE SHALL BE FOLLOWED AT ALL TIMES.

**SHEET NOTES:**

1. SEE SHEET C1.0 FOR GENERAL NOTES AND LEGEND.
2. PRIVATE UTILITY LOCATES TO BE PROVIDED BY CONTRACTOR.
3. REFER TO SHEETS C4.0 AND C4.1, STORM DRAIN PLAN, FOR PRIVATE UTILITY WORK.
4. REFER TO LANDSCAPE PLANS FOR PLANTING AND IRRIGATION REQUIREMENTS. LANDSCAPE AREA DISTURBED BY CONSTRUCTION NOT SHOWN ON LANDSCAPE PLANS TO BE RESEDED. PREPARE AREAS FOR RESEEDING TO GRADING OR DISTURBANCE LIMITS. REFER TO EARTHWORK SPECIFICATION FOR SUBGRADE PREPARATION, TOP SOIL PLACEMENT AND SEEDING REQUIREMENTS PER LANDSCAPE PLANS AND SPECIFICATIONS.

**CONSTRUCTION NOTES:**

1. EX TREE CRITICAL ROOT ZONE IMPACTED. FOR WORK IN THIS AREA REFER TO TREE PROTECTION NOTES AND ARBORIST REPORT, SPERRY TREE CARE APRIL 5, 2018.
2. AS A MINIMUM, SECURITY FENCE REMOVAL/REPLACEMENT REQUIRED AT EACH AREA DRAIN REPLACEMENT LOCATION. COORDINATE WITH SCHOOL DISTRICT STAFF FOR STORAGE OF SALVAGED MATERIALS DURING CONSTRUCTION.
3. PROTECT SURROUNDING AREA FROM DAMAGE DURING TREE REMOVAL. ANY DAMAGE TO BE REPAIRED AT CONTRACTORS EXPENSE.

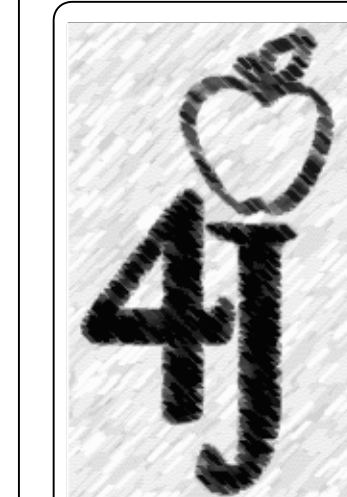


3220 Tilden St.  
Eugene, OR 97404



EXPIRATION DATE: 12/31/18

PROJECT TITLE



Facilities Management  
School District 4J  
715 W. 4th Avenue  
Eugene, OR 97402  
(541) 687-3257

**AWBREY PARK & SPRING CREEK  
ELEMENTARY SCHOOLS - CONCRETE WALK  
& STORM DRAIN MAINTENANCE**  
AWBREY PARK - 158 SPRING CREEK DRIVE, EUGENE, OR 97404  
SPRING CREEK - 560 IRVINGTON DRIVE, EUGENE, OR 97404

**REVISIONS**

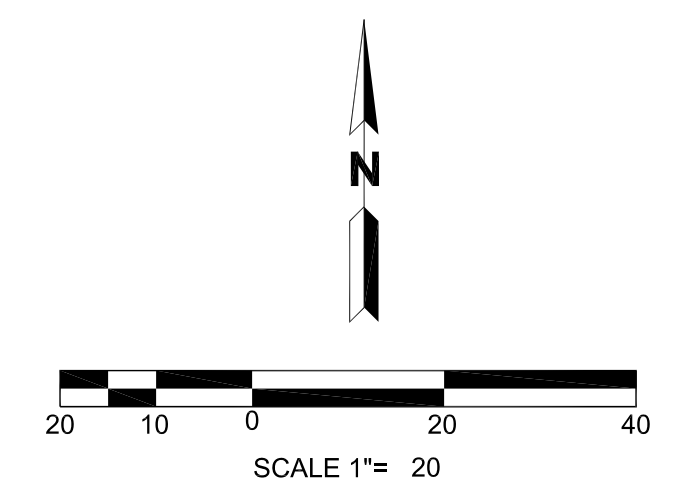
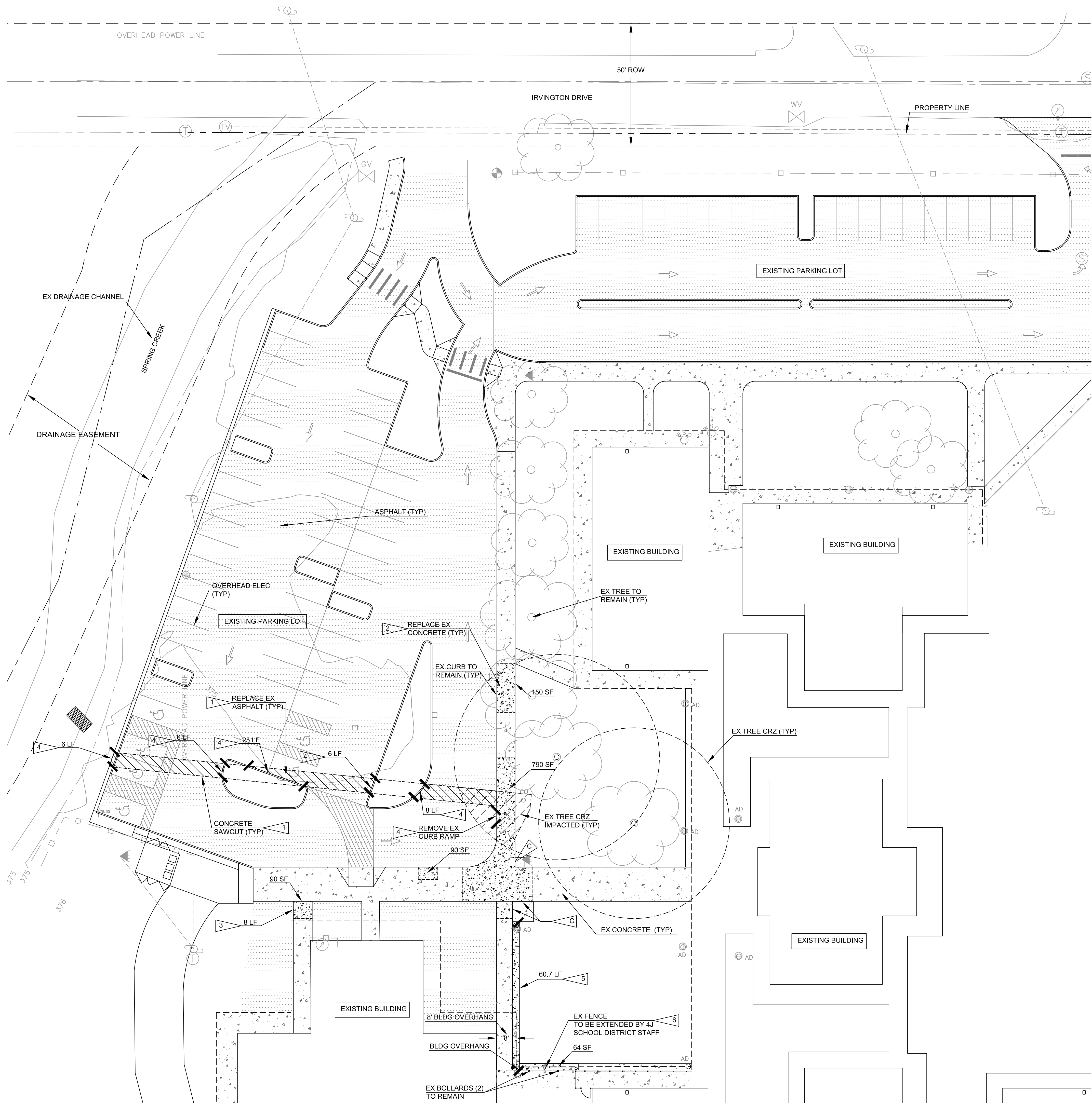
SYM	DATE	REFERENCE

PROJECT: 171601  
DRAWN: BJR  
CHECKED: BJR  
DATE: 04/30/2018  
DRAWING TITLE

**SITE PLAN  
AWBREY PARK ES**

DRAWING NUMBER

**C2.0**

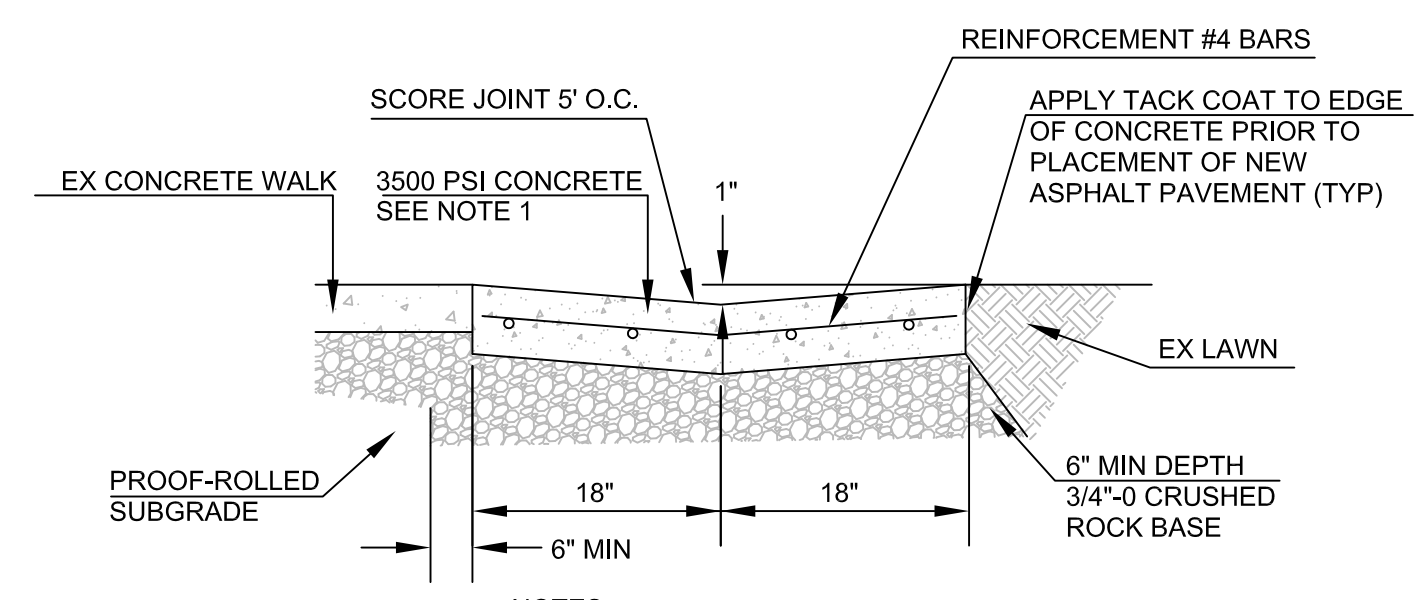


- SHEET NOTES:**
- SEE SHEET C1.0 FOR GENERAL NOTES AND LEGEND.
  - PRIVATE UTILITY LOCATES TO BE PROVIDED BY CONTRACTOR.
  - REFER TO SHEET C4.2, STORM DRAIN PLAN, FOR PRIVATE UTILITY WORK.
  - REFER TO LANDSCAPE PLANS FOR PLANTING AND IRRIGATION REQUIREMENTS. LANDSCAPE AREA DISTURBED BY CONSTRUCTION NOT SHOWN ON LANDSCAPE PLANS TO BE RESEDED. PREPARE AREAS FOR RESEEDING TO GRADING OR DISTURBANCE LIMITS. REFER TO EARTHWORK SPECIFICATION FOR SUBGRADE PREPARATION, TOP SOIL PLACEMENT AND SEEDING REQUIREMENTS PER LANDSCAPE PLANS AND SPECIFICATIONS.

- PAVING SHEET NOTES:**
- ALL JOINTS TO BE TOOLED CONTRACTION JOINTS, UNLESS NOTED OTHERWISE.
  - CURB QUANTITIES SHOWN ARE FOR THE PURPOSE OF IDENTIFYING CURB TYPE. ACTUAL QUANTITIES MAY VARY. CONTRACTOR TO PROVIDE QUANTITIES REQUIRED FOR LAYOUT SHOWN.
  - APPLY TACK COAT TO ALL CONCRETE EDGES PRIOR TO PLACING ASPHALT.
  - REMOVE AND REPLACE EX CONCRETE AND ASPHALT AS REQUIRED FOR NEW CONSTRUCTION. SAWCUT LINE SHOWN AS APPROXIMATE. REMOVE ADDITIONAL ASPHALT, AS REQUIRED, TO ACCOMPLISH SITE WORK. ADDITIONAL ASPHALT AND CONCRETE REPLACEMENT WILL BE REQUIRED FOR ANY AREAS DAMAGED DURING CONSTRUCTION. SAWCUT PER DETAIL 7/C1.1.
  - PAVEMENT PAINTING/STRIPING N.I.C.

- CONSTRUCTION NOTES:**
- SAWCUT AND REPLACE EX ASPHALT AS REQUIRED FOR NEW CONSTRUCTION. REFER TO DETAIL 7/C1.1.
  - REPLACEMENT CONCRETE WALK AREAS/SQUARE FOOTAGES ARE APPROXIMATE. CONCRETE WALKS TO BE MARKED ON-SITE BY 4J SCHOOL DISTRICT STAFF.
  - CONST THICKENED EDGE WALK PER DETAIL 5/C1.1.
  - CONST FULL DEPTH CURB PER DETAIL 8/C1.1.
  - CONST VALLEY GUTTER PER DETAIL 1/C2.1.
  - COORDINATE CONCRETE WORK WITH WITH SCHOOL DISTRICT STAFF FOR FENCE EXTENSION WORK.

- JOINTING NOTES**  
(REFER TO 8/C1.1 FOR JOINTING DETAILS).
- A. CONTRACTION JOINT (ALL JOINTS UNLESS SHOWN OTHERWISE)
  - B. CONSTRUCTION JOINT (WHERE NECESSARY)
  - C. ISOLATION JOINT

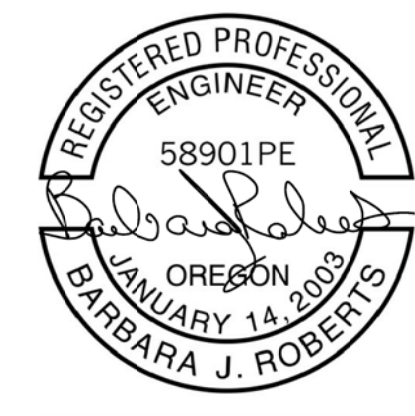


**NOTES:**  
1. CONCRETE DEPTH TO BE 6" MIN OR EQUAL TO CONCRETE PAVEMENT SECTION, WHICHEVER IS GREATER.

**1 VALLEY GUTTER SECTION**  
NO SCALE

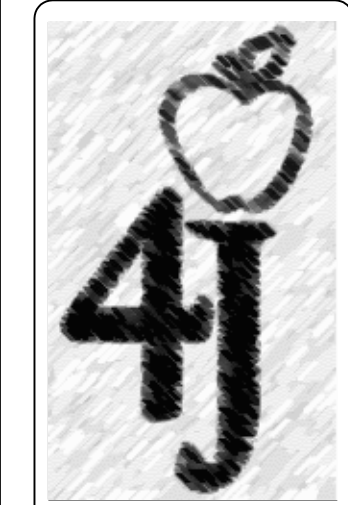
**PAVING LEGEND**

	CONCRETE WALK SECTION 6" THICK - 3,000 PSI CONCRETE OVER 3" 3/4"-0 MIN CRUSHED ROCK BASE OVER PROOF-ROLLED SUBGRADE
	VEHICLE ASPHALT PAVEMENT SECTION 2" LIFT 1/2" DENSE AC PAVEMENT OVER 2" LIFT 1/2" DENSE AC PAVEMENT OVER 14" 3/4"-0 MIN CRUSHED ROCK BASE OVER GEOTEXTILE FABRIC OVER PROOF-ROLLED SUBGRADE
	BEGINNING OR END OF CONCRETE EDGE OR LENGTH



EXPIRATION DATE: 12/31/18

PROJECT TITLE



Facilities Management  
School District 4J  
715 W. 4th Avenue  
Eugene, OR 97402  
(541) 687-3257

**AWBREY PARK & SPRING CREEK  
ELEMENTARY SCHOOLS - CONCRETE WALK  
& STORM DRAIN MAINTENANCE**  
AWBREY PARK - 138 SPRING CREEK DRIVE, EUGENE, OR 97404  
SPRING CREEK - 560 IRVINGTON DRIVE, EUGENE, OR 97404

**REVISIONS**

NO.	DATE	REFERENCE

PROJECT: 171601  
DRAWN: BJR  
CHECKED: BJR  
DATE: 04/30/2018  
DRAWING TITLE

**SITE AND PAVING PLAN  
SPRING CREEK ES**

DRAWING NUMBER

**C2.1**

REFER TO SHEET C3.1 FOR NOTES & LEGEND



EXPIRATION DATE: 12/31/18

PROJECT TITLE



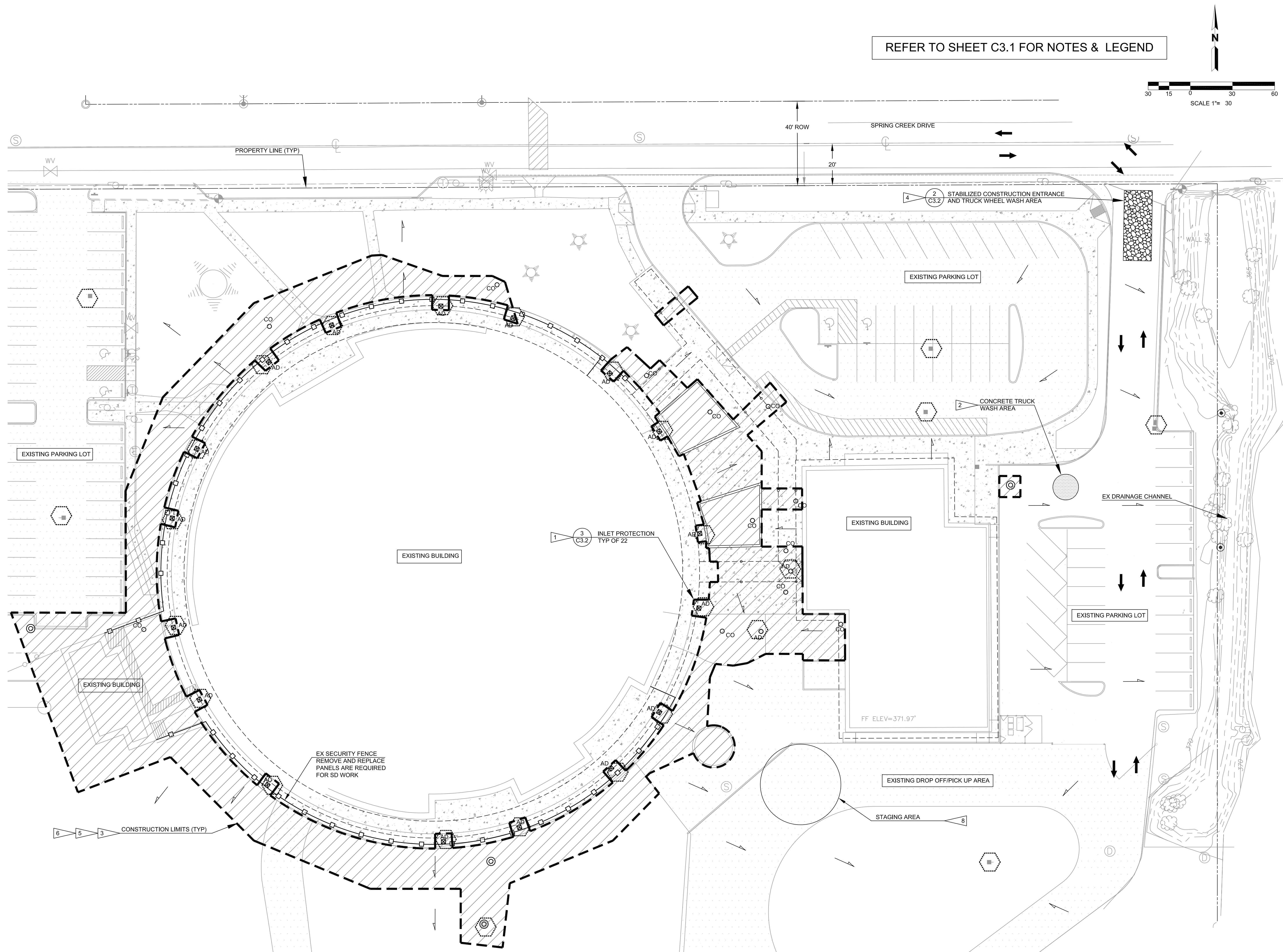
Facilities  
Management  
School District 4J  
715 W. 4th Avenue  
Eugene, OR 97402  
(541) 687-3257

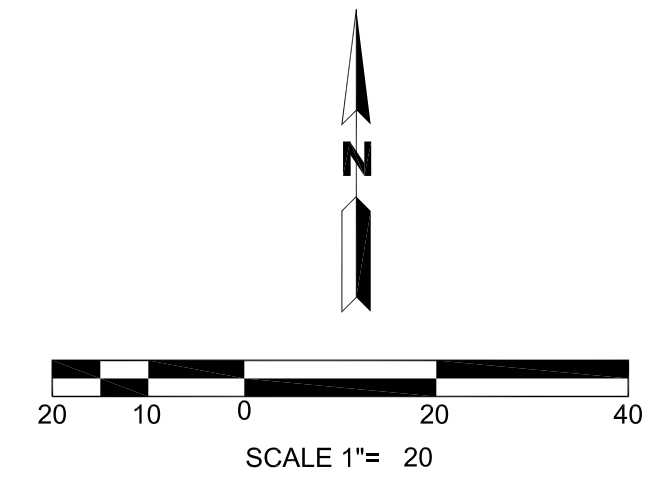
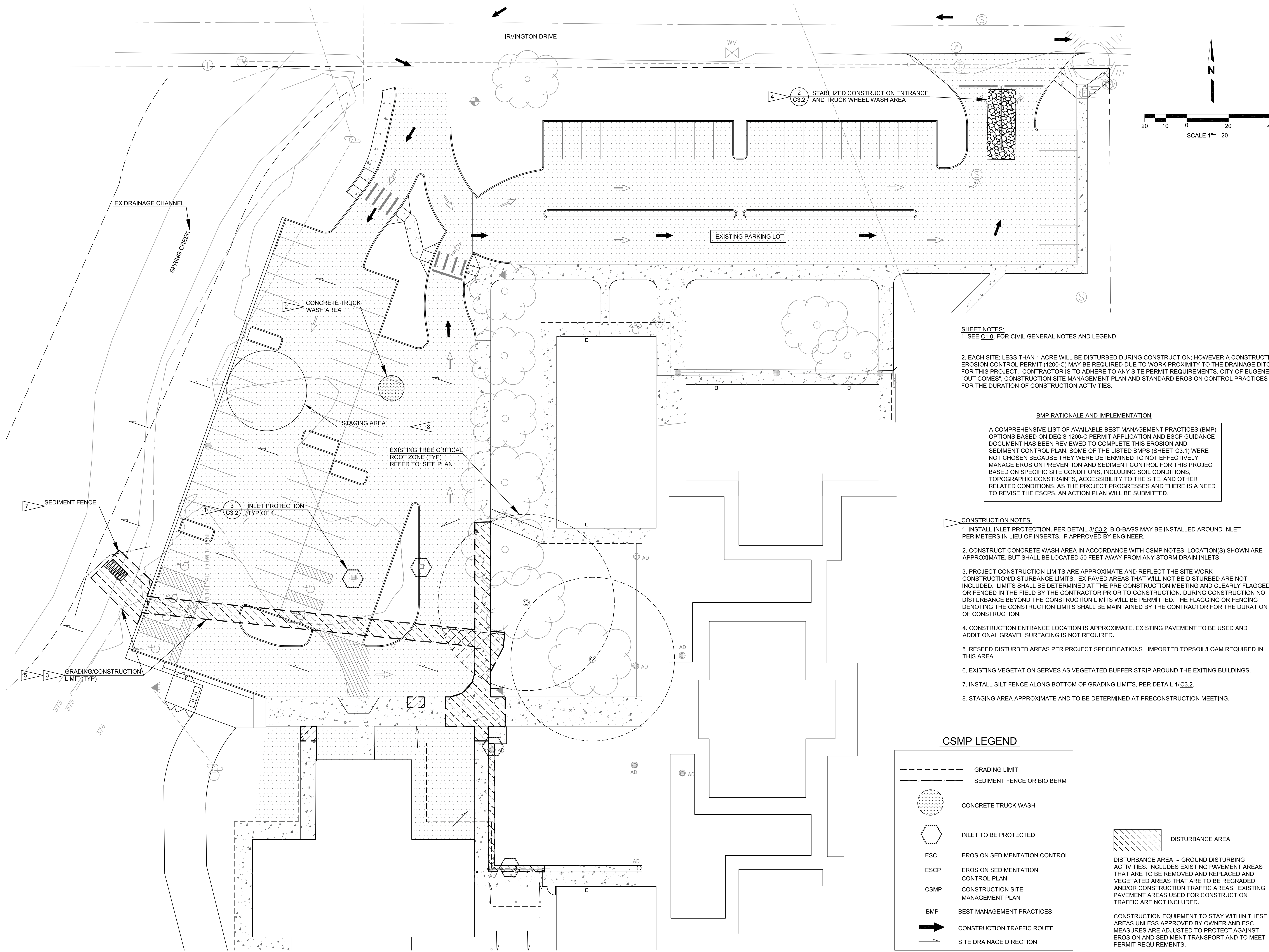
**AWBREY PARK & SPRING CREEK  
ELEMENTARY SCHOOLS - CONCRETE WALK  
& STORM DRAIN MAINTENANCE**  
AWBREY PARK - 158 SPRING CREEK DRIVE, EUGENE, OR 97404  
SPRING CREEK - 560 IRVINGTON DRIVE, EUGENE, OR 97404

REVISIONS		
SYN	DATE	REFERENCE

PROJECT: 171601  
DRAWN: BJR  
CHECKED: BJR  
DATE: 04/30/2018  
DRAWING TITLE  
CONSTRUCTION SITE  
MANAGEMENT PLAN -  
AWBREY PARK ES  
DRAWING NUMBER

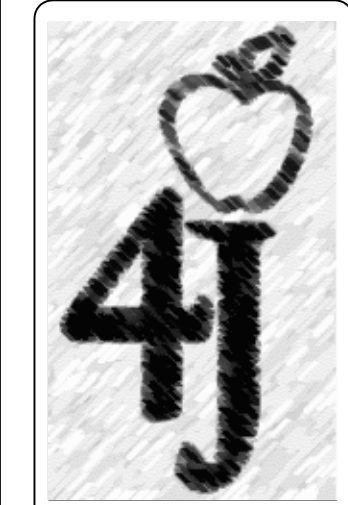
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EXPIRATION DATE: 12/31/18

PROJECT TITLE



Facilities Management  
 School District 4J  
 715 W. 4th Avenue  
 Eugene, OR 97402  
 (541) 687-3257

**AWBREY PARK & SPRING CREEK  
 ELEMENTARY SCHOOLS - CONCRETE WALK  
 & STORM DRAIN MAINTENANCE**  
 AWBREY PARK - 138 SPRING CREEK DRIVE, EUGENE, OR 97404  
 SPRING CREEK - 560 IRVINGTON DRIVE, EUGENE, OR 97404

**SHEET NOTES:**

1. SEE C1.0, FOR CIVIL GENERAL NOTES AND LEGEND.
2. EACH SITE: LESS THAN 1 ACRE WILL BE DISTURBED DURING CONSTRUCTION; HOWEVER A CONSTRUCTION EROSION CONTROL PERMIT (1200-C) MAY BE REQUIRED DUE TO WORK PROXIMITY TO THE DRAINAGE DITCH. FOR THIS PROJECT. CONTRACTOR IS TO ADHERE TO ANY SITE PERMIT REQUIREMENTS, CITY OF EUGENE "OUT COMES", CONSTRUCTION SITE MANAGEMENT PLAN AND STANDARD EROSION CONTROL PRACTICES FOR THE DURATION OF CONSTRUCTION ACTIVITIES.

**BMP RATIONALE AND IMPLEMENTATION**

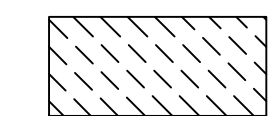
A COMPREHENSIVE LIST OF AVAILABLE BEST MANAGEMENT PRACTICES (BMP) OPTIONS BASED ON DEQ'S 1200-C PERMIT APPLICATION AND ESCP GUIDANCE DOCUMENT HAS BEEN REVIEWED TO COMPLETE THIS EROSION AND SEDIMENT CONTROL PLAN. SOME OF THE LISTED BMPS (SHEET C3.1) WERE NOT CHOSEN BECAUSE THEY WERE DETERMINED TO NOT EFFECTIVELY MANAGE EROSION PREVENTION AND SEDIMENT CONTROL FOR THIS PROJECT BASED ON SPECIFIC SITE CONDITIONS, INCLUDING SOIL CONDITIONS, TOPOGRAPHIC CONSTRAINTS, ACCESSIBILITY TO THE SITE, AND OTHER RELATED CONDITIONS. AS THE PROJECT PROGRESSES AND THERE IS A NEED TO REVISE THE ESCPS, AN ACTION PLAN WILL BE SUBMITTED.

**CONSTRUCTION NOTES:**

1. INSTALL INLET PROTECTION, PER DETAIL 3/C3.2. BIO-BAGS MAY BE INSTALLED AROUND INLET PERIMETERS IN LIEU OF INSERTS, IF APPROVED BY ENGINEER.
2. CONSTRUCT CONCRETE WASH AREA IN ACCORDANCE WITH CSMP NOTES. LOCATION(S) SHOWN ARE APPROXIMATE, BUT SHALL BE LOCATED 50 FEET AWAY FROM ANY STORM DRAIN INLETS.
3. PROJECT CONSTRUCTION LIMITS ARE APPROXIMATE AND REFLECT THE SITE WORK CONSTRUCTION/DISTURBANCE LIMITS. EX PAVED AREAS THAT WILL NOT BE DISTURBED ARE NOT INCLUDED. LIMITS SHALL BE DETERMINED AT THE PRE CONSTRUCTION MEETING AND CLEARLY FLAGGED OR FENCED IN THE FIELD BY THE CONTRACTOR PRIOR TO CONSTRUCTION. DURING CONSTRUCTION NO DISTURBANCE BEYOND THE CONSTRUCTION LIMITS WILL BE PERMITTED. THE FLAGGING OR FENCING DENOTING THE CONSTRUCTION LIMITS SHALL BE MAINTAINED BY THE CONTRACTOR FOR THE DURATION OF CONSTRUCTION.
4. CONSTRUCTION ENTRANCE LOCATION IS APPROXIMATE. EXISTING PAVEMENT TO BE USED AND ADDITIONAL GRAVEL SURFACING IS NOT REQUIRED.
5. RESEED DISTURBED AREAS PER PROJECT SPECIFICATIONS. IMPORTED TOPSOIL/LOAM REQUIRED IN THIS AREA.
6. EXISTING VEGETATION SERVES AS VEGETATED BUFFER STRIP AROUND THE EXISTING BUILDINGS.
7. INSTALL SILT FENCE ALONG BOTTOM OF GRADING LIMITS, PER DETAIL 1/C3.2.
8. STAGING AREA APPROXIMATE AND TO BE DETERMINED AT PRECONSTRUCTION MEETING.

**CSMP LEGEND**

	GRADING LIMIT
	SEDIMENT FENCE OR BIO BERM
	CONCRETE TRUCK WASH
	INLET TO BE PROTECTED
	ESC EROSION SEDIMENTATION CONTROL
	ESCP EROSION SEDIMENTATION CONTROL PLAN
	CSMP CONSTRUCTION SITE MANAGEMENT PLAN
	BMP BEST MANAGEMENT PRACTICES
	CONSTRUCTION TRAFFIC ROUTE
	SITE DRAINAGE DIRECTION



DISTURBANCE AREA

DISTURBANCE AREA = GROUND DISTURBING ACTIVITIES. INCLUDES EXISTING PAVEMENT AREAS THAT ARE TO BE REMOVED AND REPLACED AND VEGETATED AREAS THAT ARE TO BE REGRADED AND/OR CONSTRUCTION TRAFFIC AREAS. EXISTING PAVEMENT AREAS USED FOR CONSTRUCTION TRAFFIC ARE NOT INCLUDED.

CONSTRUCTION EQUIPMENT TO STAY WITHIN THESE AREAS UNLESS APPROVED BY OWNER AND ESC MEASURES ARE ADJUSTED TO PROTECT AGAINST EROSION AND SEDIMENT TRANSPORT AND TO MEET PERMIT REQUIREMENTS.

**REVISIONS**

NO.	DATE	REFERENCE

PROJECT: 171601  
 DRAWN: BJR  
 CHECKED: BJR  
 DATE: 04/30/2018  
 DRAWING TITLE

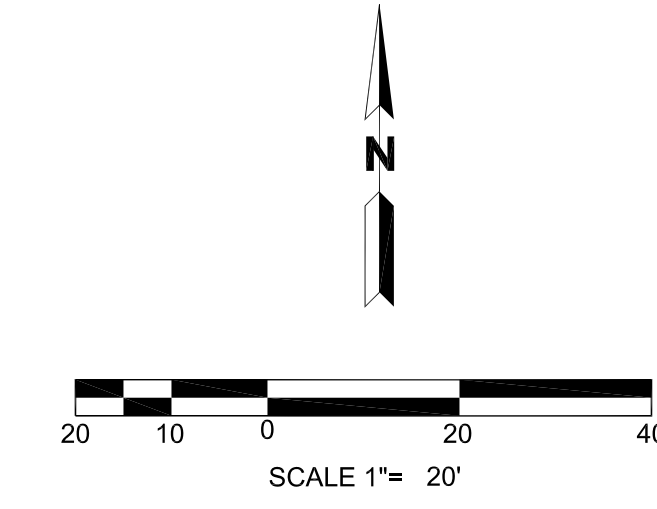
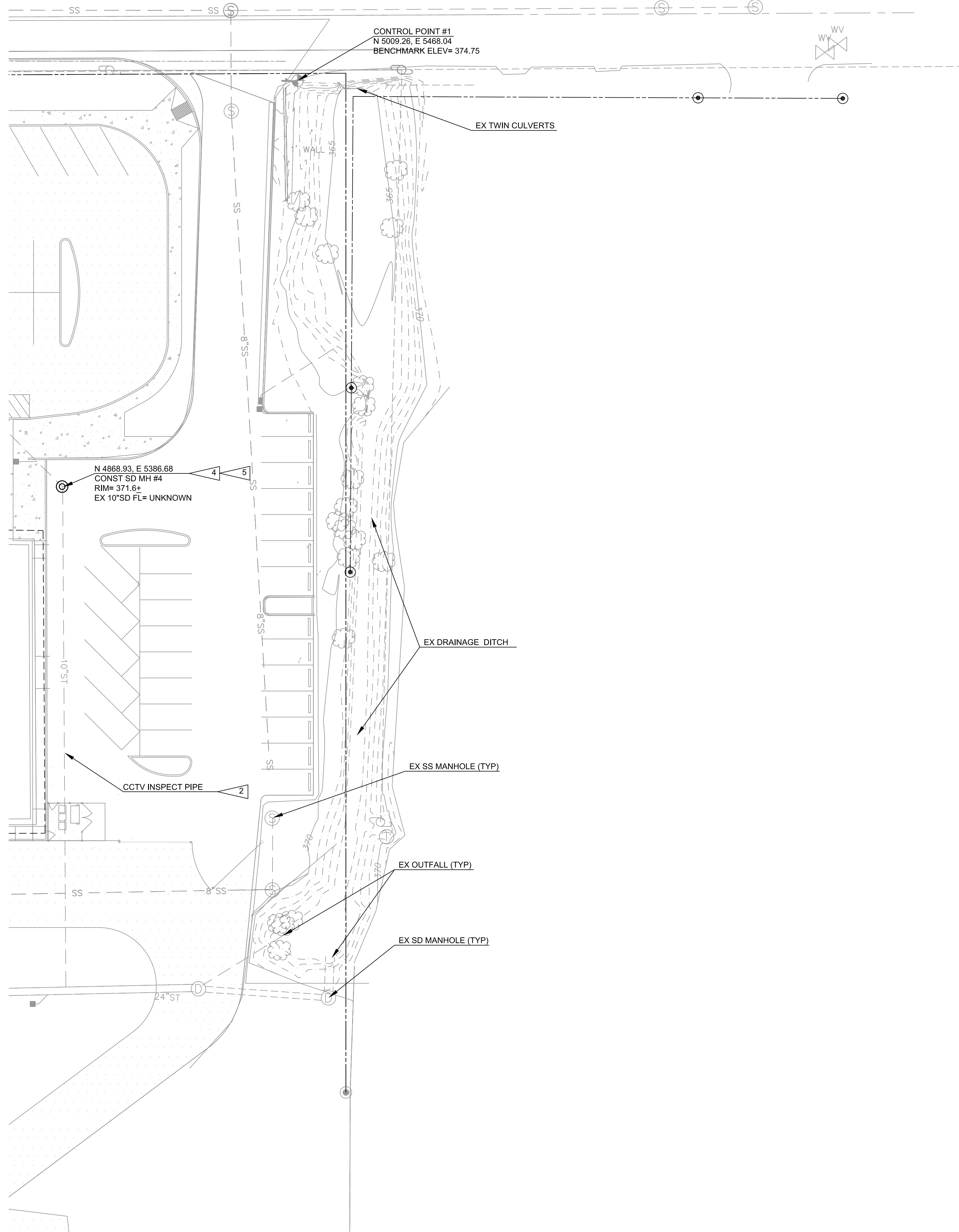
**CONSTRUCTION SITE  
 MANAGEMENT PLAN -  
 SPRING CREEK ES**

DRAWING NUMBER

**C3.1**



EK DRIVE

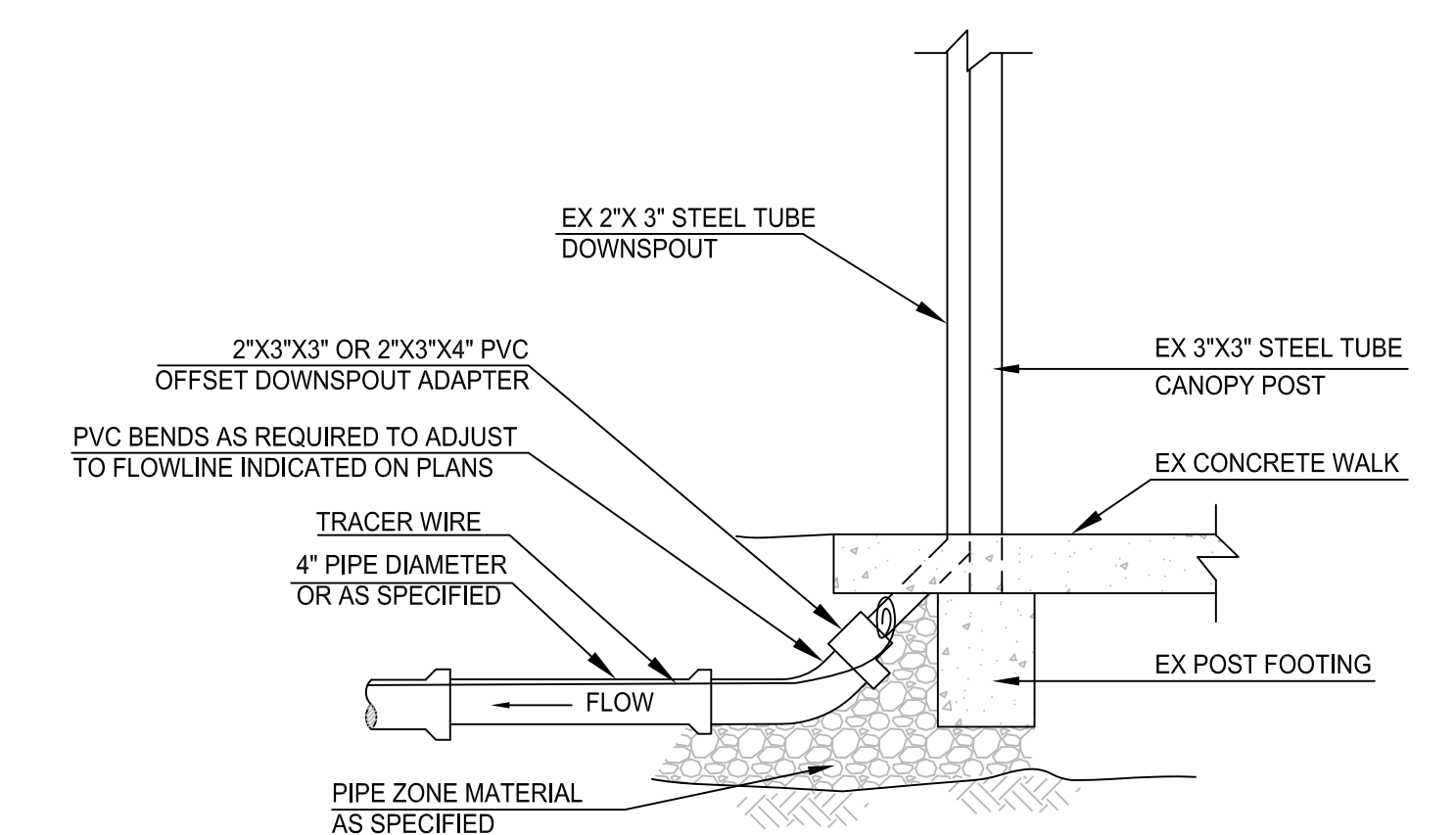


**SHEET NOTES:**

- SEE SHEET C1.0 FOR GENERAL NOTES AND LEGEND.
- EXISTING UNDERGROUND UTILITY LOCATIONS SHOWN ARE APPROXIMATE. CONTRACTOR IS RESPONSIBLE TO POTHOLE AND VERIFY LOCATIONS WITHIN DEMOLITION AREA AND ASSURE THERE ARE NO CONFLICTS WITH STORM DRAIN DESIGN.
- REMOVE OR RELOCATE ANY EXISTING PRIVATE UTILITIES ENCOUNTERED, AS APPROVED BY ENGINEER. CONTACT UTILITY PROVIDER FOR ANY PUBLIC UTILITY CONFLICTS/ISSUES.
- POT HOLE TO VERIFY LOCATIONS AND ELEVATIONS OF ALL EXISTING UTILITIES AT NEW PIPE CROSSINGS AND CONNECTION POINTS. SUBMIT THIS INFORMATION AND AS PER CONSTRUCTION NOTE REQUIREMENTS PRIOR TO BEGINNING CONSTRUCTION FOR VERIFICATION OF DESIGN.
- ALL PIPES UNDER AND WITHIN 5 FEET OF BLDG OR COVERED WALKS TO BE BLDG APPROVED MATERIAL.

**CONSTRUCTION NOTES:**

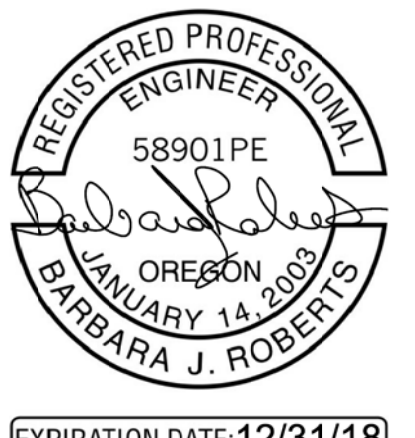
- POTHOLE TO VERIFY ELEVATION AND LOCATION OF EX PIPE AT CONNECTION POINT. SUBMIT TO ENGINEER ANY DISCREPANCIES FROM THE DESIGN. CONNECT NEW PIPE TO EX 2"x3" STEEL DOWNSPOUT WITH PVC DOWN SPOUT ADAPTER. DETAIL 1/C4.0. REMOVE REMAINING OLD PIPE WITHIN CONSTRUCTION AREA. MAINTAIN 12" MIN COVER OVER NEW SD PIPES. PIPE TO BE BLDG APPROVED MATERIAL.
- CCTV INSPECT ENTIRE PIPE LENGTH AFTER INSTALLING MANHOLE ON STORM DRAIN PIPE. PROVIDE VIDEO TO ENGINEER CLEARLY SHOWING PIPE CONDITION THROUGHOUT AND ALL LATERAL PIPE CONNECTIONS. CCTV CAMERA TO BE ON A TRACK TO ACCURATELY RECORD PIPE LOCATIONS/DISTANCES.
- REMOVE EX INLET. REMOVE ASSOCIATED PIPING.
- USE STANDARD STORM MANHOLE (DETAIL 1/C1.1) IF PIPE DEPTH ALLOWS. IF NOT, USE SHALLOW STORM MANHOLE (DETAIL 2/C1.1)
- POT HOLE TO LOCATE EX PIPE LOCATION AND DEPTH PRIOR TO ORDERING MANHOLE TO DETERMINE REQUIRED DEPTH OF MANHOLE AND SUMP. MANHOLE INLETS/OUTLETS TO BE CORE DRILLED WITH FLEXIBLE CONNECTOR.
- REMOVE EX PIPE IN WORK AREA. CAP/PLUG ENDS AT WORK LIMITS PER SHEET C1.0 GENERAL NOTES.
- SLOPE 3" SD PIPES TO DRAIN TO WEEP HOLES IN CURB. REFER TO PAVING PLAN FOR WEEP HOLE REQUIREMENTS.
- EX WATER VALVE BOX. REMOVE AND REPLACE AS REQUIRED FOR CONSTRUCTION.
- REMOVE EX CONCRETE AREA DRAINS AND CORRUGATED PIPE SURROUNDING BUILDING. REPLACE WITH SQUARE AREA DRAINS PER DETAIL 3/C1.1. CONNECT AD TO 8" / 10" COLLECTOR PIPE WITH BLDG APPROVED MATERIAL. SURROUNDING CONCRETE TO BE SLOPED TO NEW AREA DRAIN. REFER TO PAVING PLAN FOR CONCRETE REPLACEMENT. SET AREA DRAIN CENTERED UNDER BLDG SCUPPER/DOWNSPOUT WITH RIMSET FLUSH WITH NEW CONCRETE SURFACE.
- CONNECT TO EX ROUND PIPE DOWN SPOUTS WITH PVC DOWNSPOUT CONNECTOR. MAINTAIN 12" MIN COVER OVER STORM DRAIN PIPES. PIPE TO BE BLDG APPROVED MATERIAL.
- 4J TO INSTALL NEW BLDG DOWN SPOUT. COORDINATE WITH 4J TO DS CONNECTION TYPE.
- CENTER AREA DRAIN IN CONCRETE PANEL. SURROUNDING CONCRETE TO BE SLOPED TO NEW AREA DRAIN. REFER TO PAVING PLAN FOR CONCRETE REPLACEMENT. SET AREA DRAIN RIM FLUSH WITH NEW CONCRETE SURFACE.
- EX STORM DRAIN PIPES WITHIN THIS AREA TO REMAIN. REFER TO ARBORIST REPORT, SPERRY TREE CARE, FOR TRENCHING REQUIREMENTS WITHIN TREE CRITICAL ROOT ZONES.
- CONNECT TO PLANTER DRAIN PIPE. REFER TO LANDSCAPE PLANS AND DETAILS.



**NOTES:**

- TRACER WIRE SHALL BE WRAPPED AROUND THE BOTTOM OF THE DOWNSPOUT. LEAVE 18 INCHES OF FREE WIRE COILED.
- PIPE FITTINGS SHALL BE THE SAME MATERIAL AS THE MAIN PIPE.

1 DOWNSPOUT CONNECTION  
NO SCALE



EXPIRATION DATE: 12/31/18

PROJECT TITLE

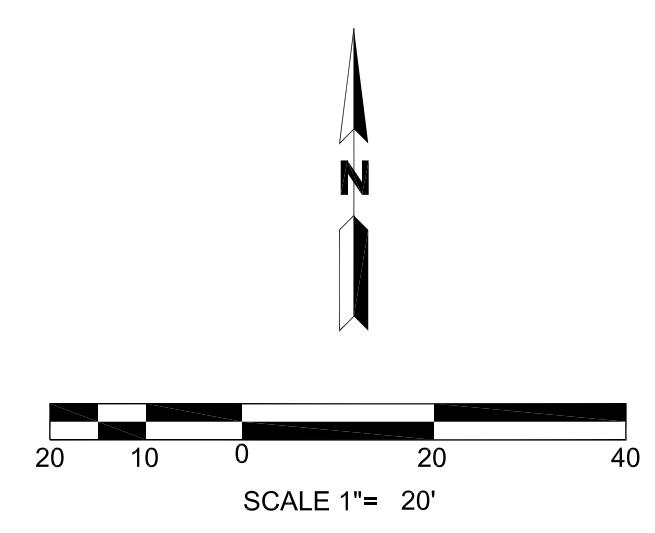
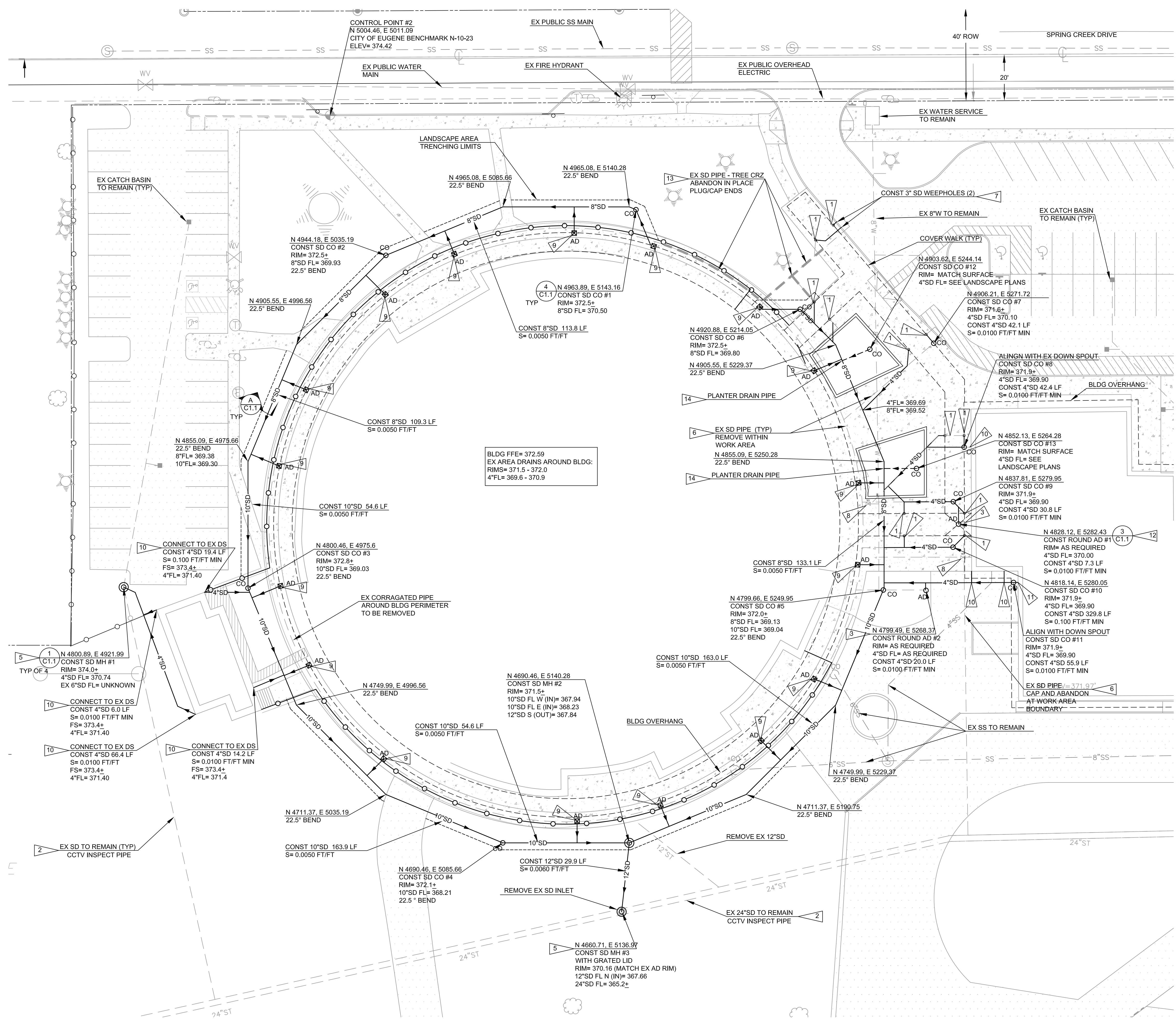
Facilities Management  
School District 4J  
715 W. 4th Avenue  
Eugene, OR 97402  
(541) 687-3257

AWBREY PARK & SPRING CREEK  
ELEMENTARY SCHOOLS - CONCRETE WALK  
& STORM DRAIN MAINTENANCE  
AWBREY PARK - 158 SPRING CREEK DRIVE, EUGENE, OR 97404  
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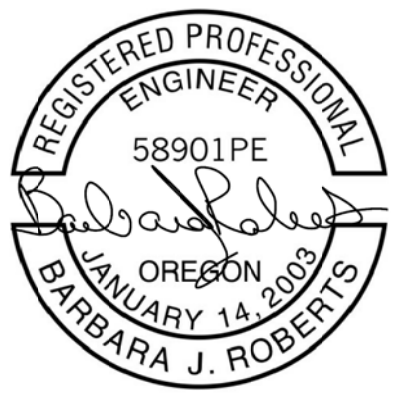
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PROJECT: 171601		
DRAWN: BJR		
CHECKED: BJR		
DATE: 04/30/2018		
DRAWING TITLE		
STORM DRAIN PLAN - AWBREY PARK ES EAST		
DRAWING NUMBER		

C4.0



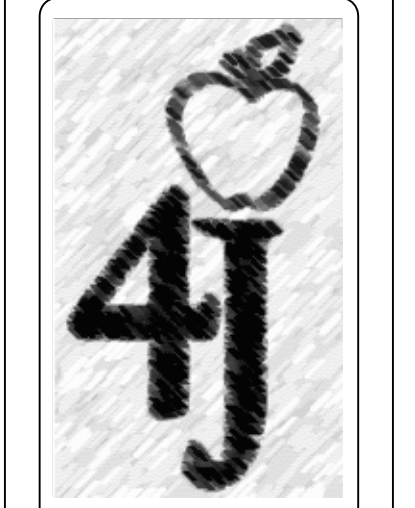


REFER TO SHEET C4.0 FOR SHEET AND CONSTRUCTION NOTES.



EXPIRATION DATE: 12/31/18

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Facilities Management  
School District 4J  
715 W. 4th Avenue  
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**AWBREY PARK & SPRING CREEK  
ELEMENTARY SCHOOLS - CONCRETE WALK  
& STORM DRAIN MAINTENANCE**  
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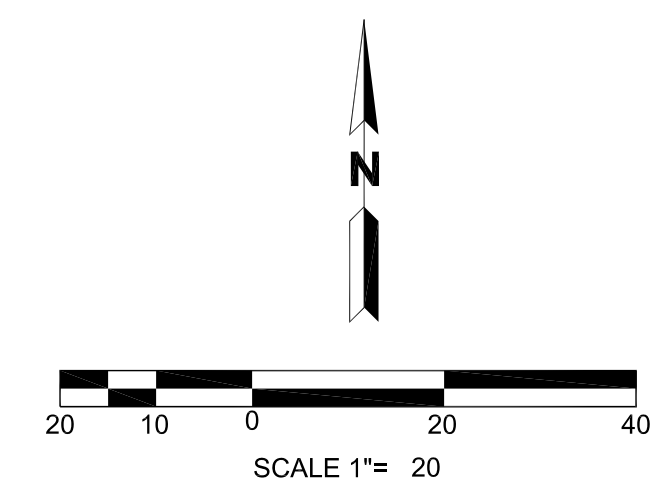
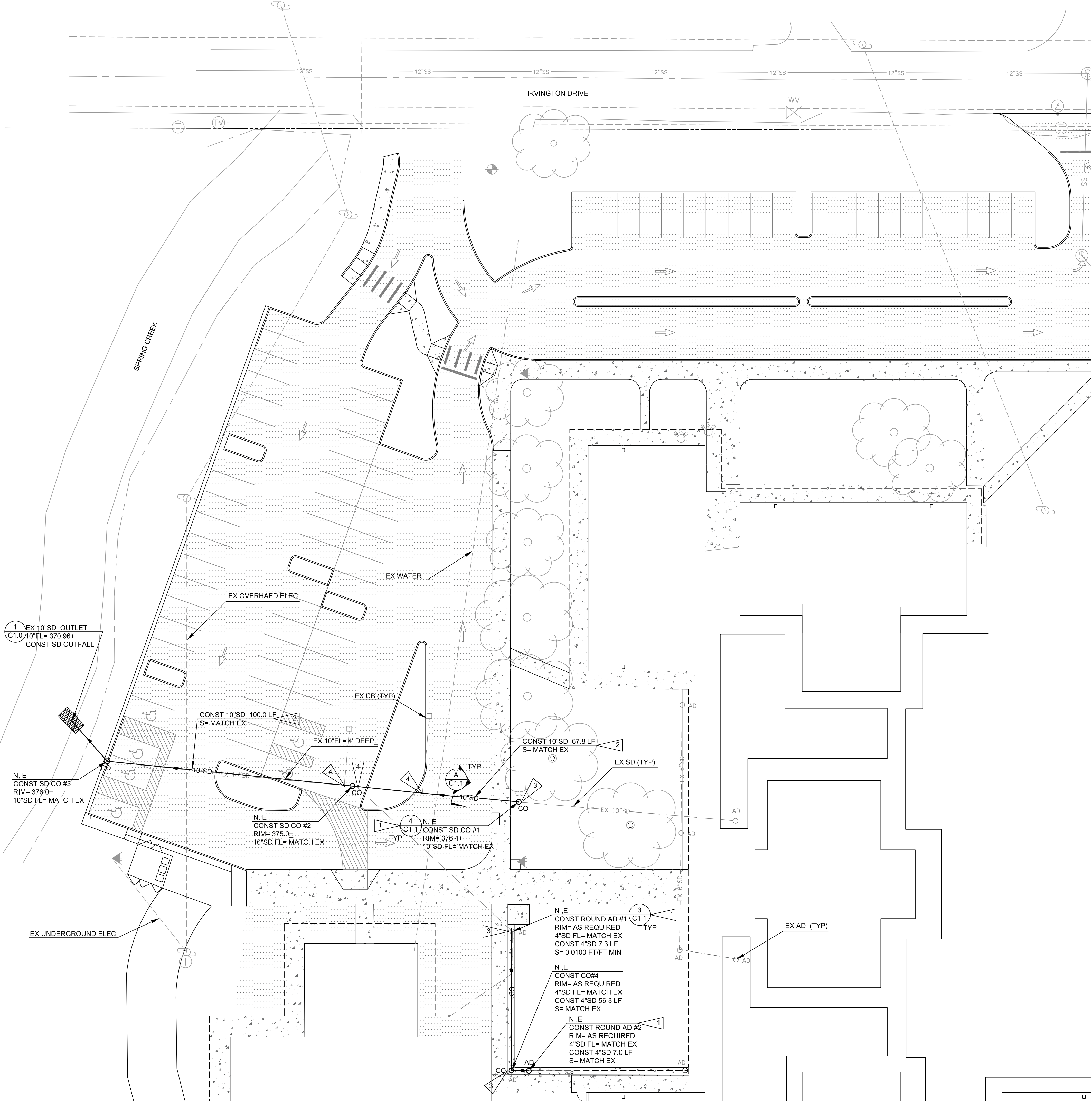
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SYM	DATE	REFERENCE

PROJECT: 171601  
DRAWN: BJR  
CHECKED: BJR  
DATE: 04/30/2018  
DRAWING TITLE

STORM DRAIN PLAN -  
AWBREY PARK ES WEST

DRAWING NUMBER

**C4.1**



- SHEET NOTES:**
- SEE SHEET C1.0 FOR GENERAL NOTES AND LEGEND.
  - EXISTING UNDERGROUND UTILITY LOCATIONS SHOWN ARE APPROXIMATE. CONTRACTOR IS RESPONSIBLE TO POTHOLE AND VERIFY LOCATIONS WITHIN DEMOLITION AREA AND ASSURE THERE ARE NO CONFLICTS WITH STORM DRAIN DESIGN.
  - REMOVE OR RELOCATE ANY EXISTING PRIVATE UTILITIES ENCOUNTERED, AS APPROVED BY ENGINEER. CONTACT UTILITY PROVIDER FOR ANY PUBLIC UTILITY CONFLICTS/ISSUES.
  - POT HOLE TO VERIFY LOCATIONS AND ELEVATIONS OF ALL EXISTING UTILITIES AT NEW PIPE CROSSINGS AND CONNECTION POINTS. SUBMIT THIS INFORMATION AND AS PER CONSTRUCTION NOTE REQUIREMENTS PRIOR TO BEGINNING CONSTRUCTION FOR VERIFICATION OF DESIGN.
  - REMOVE EX PIPE IN WORK AREA. CAP/PLUG ENDS AT WORK LIMITS PER SHEET C1.0 GENERAL NOTES.

- CONSTRUCTION NOTES:**
- POTHOLE TO VERIFY ELEVATION AND LOCATION OF EX PIPE AT CONNECTION POINT. SUBMIT TO ENGINEER ANY DISCREPANCIES FROM THE DESIGN. CONNECT NEW PIPE TO EX WITH FLEXIBLE COUPLER.
  - REPLACE EXISTING STORM DRAIN PIPE. LOCATION SHOWN IS APPROXIMATE. INSTALL NEW PIPE AT THE SAME FLOWLINE ELEVATIONS AND SLOPES AS THE EXISTING PIPE. CONNECT ALL EX LATERAL PIPES TO NEW PIPES. EXTEND PIPE, AS REQUIRED, TO DAYLIGHT.
  - REMOVE EX INLET OR CLEANOUT. REMOVE ASSOCIATED PIPING.
  - RECONNECT EX STORM DRAIN PIPE LATERAL TO NEW PIPE WITH PVC PIPE FITTING.



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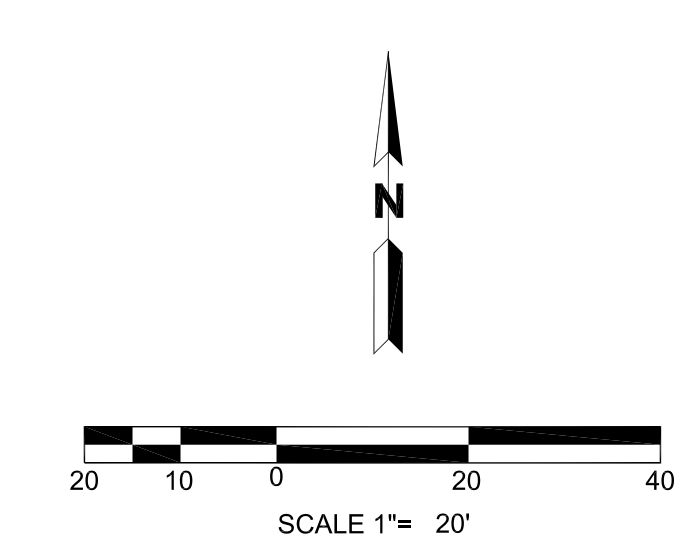
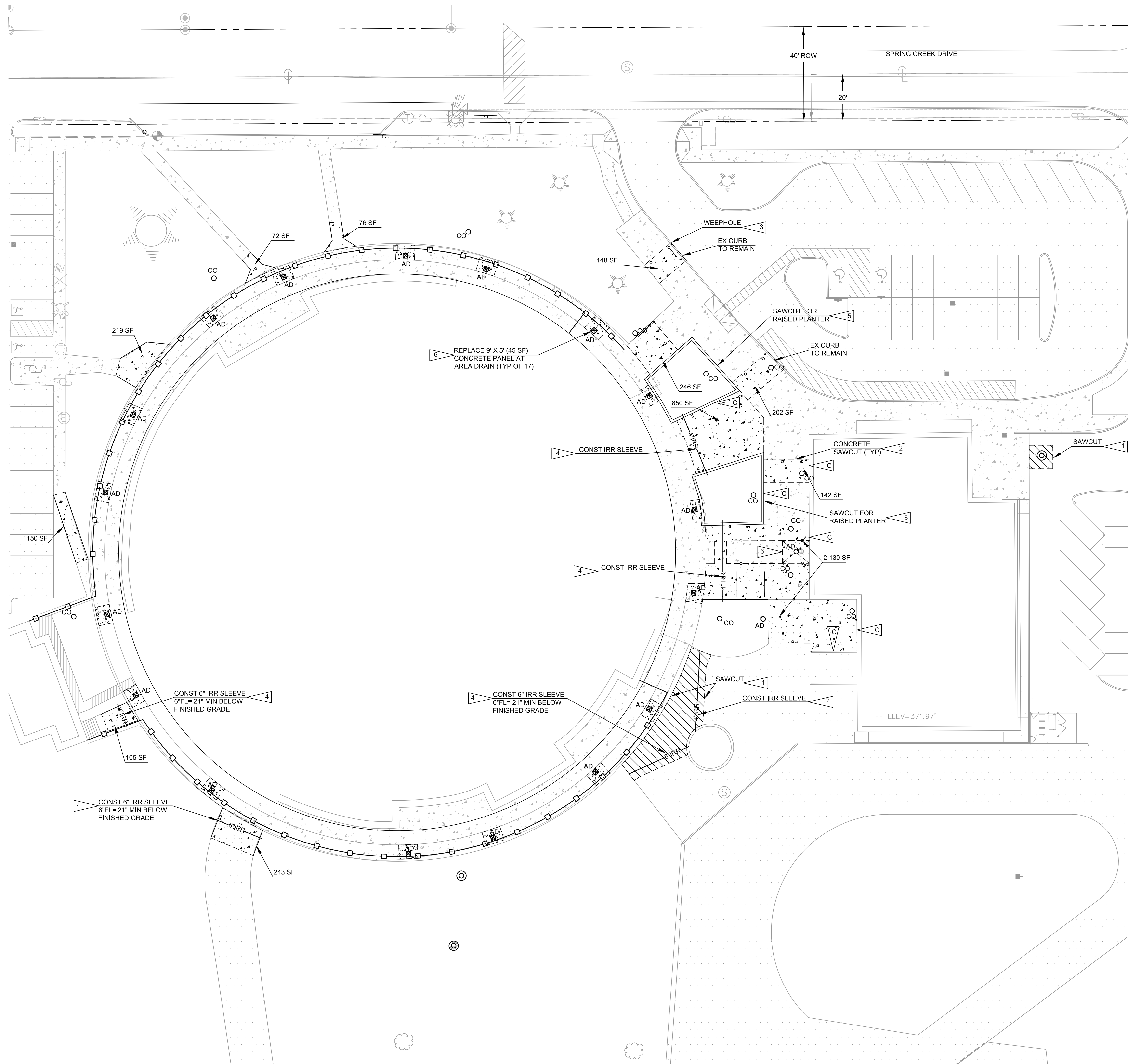
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DATE: 04/30/2018  
DRAWING TITLE

**STORM DRAIN PLAN -  
SPRING CREEK ES**

DRAWING NUMBER

**C4.2**



- SHEET NOTES:**
- SEE COVER SHEET, C1.0 FOR GENERAL NOTES AND LEGEND.
  - REFER TO SHEET C2.0, SITE PLAN, FOR LAYOUT.
  - ALL JOINTS TO BE TOOLED CONTRACTION JOINTS, UNLESS NOTED OTHERWISE.
  - CURB QUANTITIES SHOWN ARE FOR THE PURPOSE OF IDENTIFYING CURB TYPE. ACTUAL QUANTITIES MAY VARY. CONTRACTOR TO PROVIDE QUANTITIES REQUIRED FOR LAYOUT SHOWN.
  - APPLY TACK COAT TO ALL CONCRETE EDGES PRIOR TO PLACING ASPHALT
  - REMOVE AND REPLACE EX CONCRETE AND ASPHALT AS REQUIRED FOR NEW CONSTRUCTION. SAWCUT LINE SHOWN AS APPROXIMATE. REMOVE ADDITIONAL ASPHALT, AS REQUIRED, TO ACCOMPLISH SITE WORK. ADDITIONAL ASPHALT AND CONCRETE REPLACEMENT WILL BE REQUIRED FOR ANY AREAS DAMAGED DURING CONSTRUCTION. SAWCUT PER DETAIL 3/C1.1.
  - PAVEMENT PAINTING/STRIPING N.I.C.

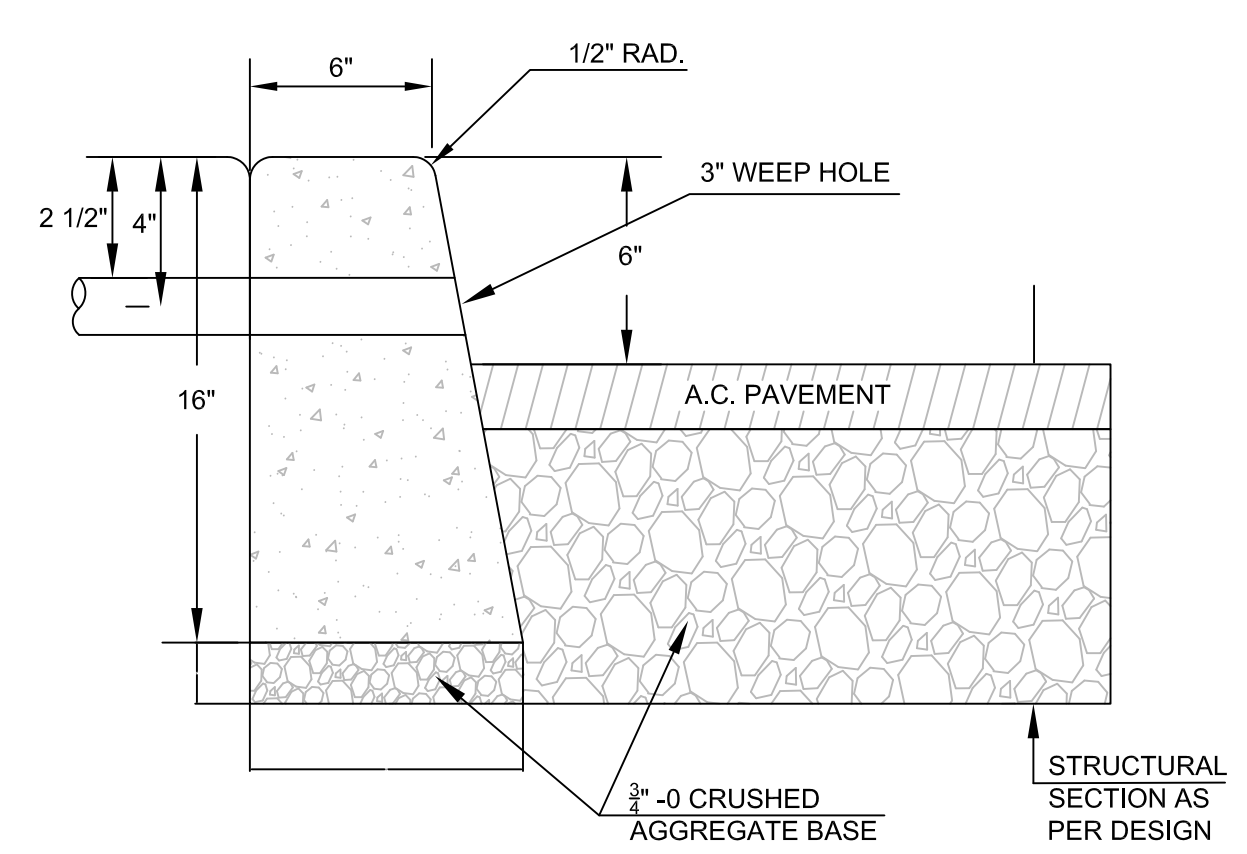
- CONSTRUCTION NOTES:**
- SAWCUT AND REPLACE EX ASPHALT AS REQUIRED FOR NEW CONSTRUCTION. REFER TO DETAIL 7/C1.1.
  - REPLACEMENT CONCRETE WALK AREAS/SQUARE FOOTAGE ARE APPROXIMATE. COORDINATE WITH 4J SCHOOL DISTRICT STAFF TO MARK ACTUAL CONCRETE TO BE REPLACED..
  - CONST WEEPHOLE PER DETAIL 1/C5.0.
  - IRRIGATION SLEEVE LOCATIONS AND LENGTHS SHOWN ARE APPROXIMATE. FIELD LOCATE EXACT LOCATIONS WITH IRRIGATION CONTRACTOR AND NOTIFY LANDSCAPE ARCHITECT OF ANY DISCREPANCIES PRIOR TO INSTALLATION OF IRRIGATION SYSTEM.

INSTALL WITH 15 INCHES MIN COVER, UNLESS NOTED OTHERWISE, FROM FINISHED GRADE. EXTEND SLEEVES A MINIMUM OF 8 INCHES BEYOND PAVEMENT EDGES OR INSIDE FACE OF CURB. COVER OPEN ENDS WITH DUCT TAPE.

SLEEVES SHALL BE 4 INCH DIAMETER, UNLESS NOTED OTHERWISE. SLEEVE MATERIAL TO BE ASTM D-2466, PVC 1120, SCHEDULE 40 PVC. EXCAVATE AND BACKFILL IN ACCORDANCE WITH DIVISION 31 SECTION EARTHWORK. WOOD LOCATION STAKES (2X2 RED TOP) ARE TO BE PLACED AT ALL SLEEVE LOCATIONS AT FACE OF WALKS, CURBS AND PAVEMENT EDGES.

- SAWCUT EX CONCRETE AND ASPHALT FOR NEW RAISED PLANTERS. REFER TO LANDSCAPE PLANS FOR PLANTER DETAILS.
- SLOPE CONCRETE PANEL SURROUNDING AREA DRAIN TOWARDS AREA DRAIN. MIN 1% MAX 2% SLOPE IN ANY DIRECTION.

**JOINING NOTES**  
(REFER TO 6/C1.1 FOR JOINING DETAILS).  
A. CONTRACTION JOINT (ALL JOINTS UNLESS SHOWN OTHERWISE)  
B. CONSTRUCTION JOINT (WHERE NECESSARY)  
C. ISOLATION JOINT



CONCRETE SHALL MEET STANDARD CONCRETE SPECIFICATION, 3300 PSI (22.75MPa)

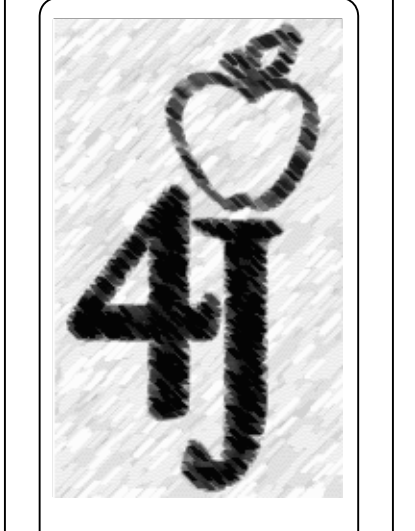
**1 FULL DEPTH CURB WITH WEEP HOLE**  
NO SCALE

PAVING LEGEND	
	CONCRETE WALK SECTION 6" THICK - 3,000 PSI CONCRETE OVER 3" 3/4"-0 MIN CRUSHED ROCK BASE OVER PROOF-ROLLED SUBGRADE
	VEHICLE ASPHALT PAVEMENT SECTION 2" LIFT 1/2" DENSE AC PAVEMENT OVER 2" LIFT 1/2" DENSE AC PAVEMENT OVER 14" 3/4"-0 MIN CRUSHED ROCK BASE OVER GEOTEXTILE FABRIC OVER PROOF-ROLLED SUBGRADE
	BEGINNING OR END OF CONCRETE EDGE OR LENGTH



EXPIRATION DATE: 12/31/18

PROJECT TITLE



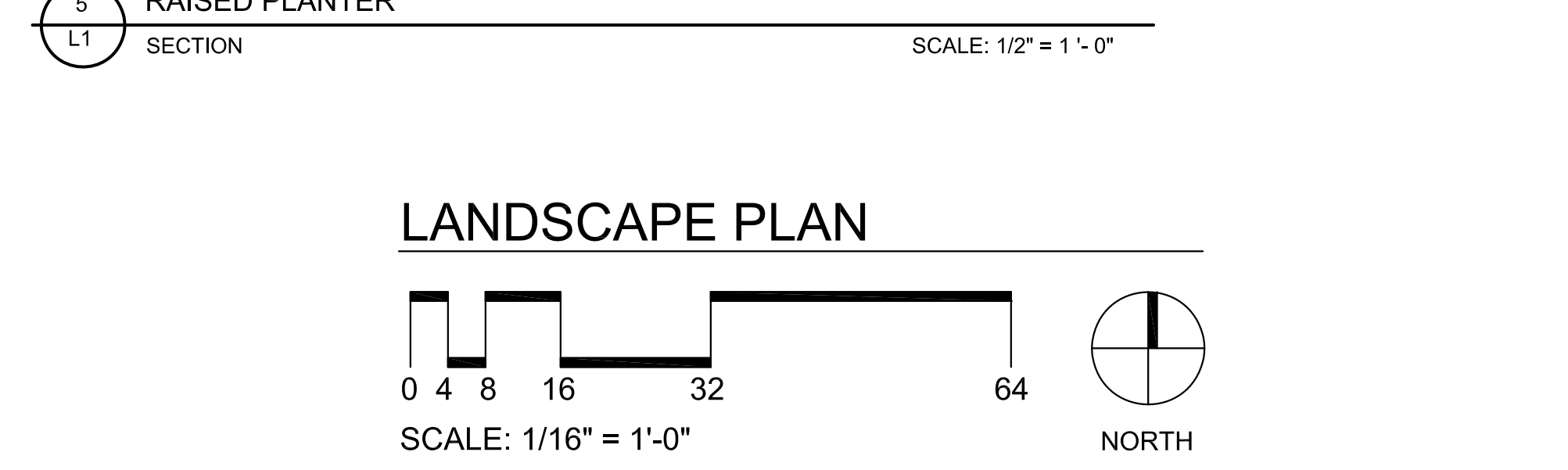
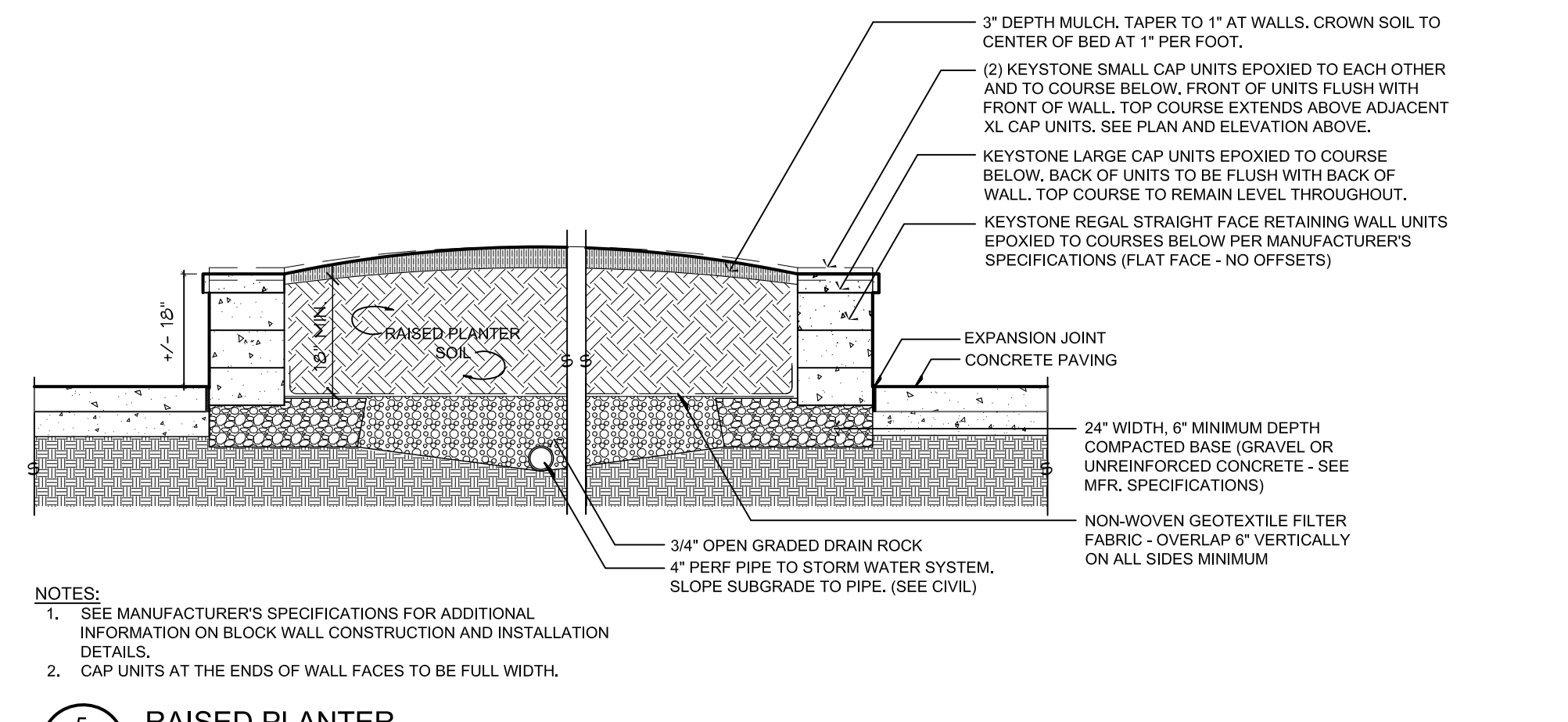
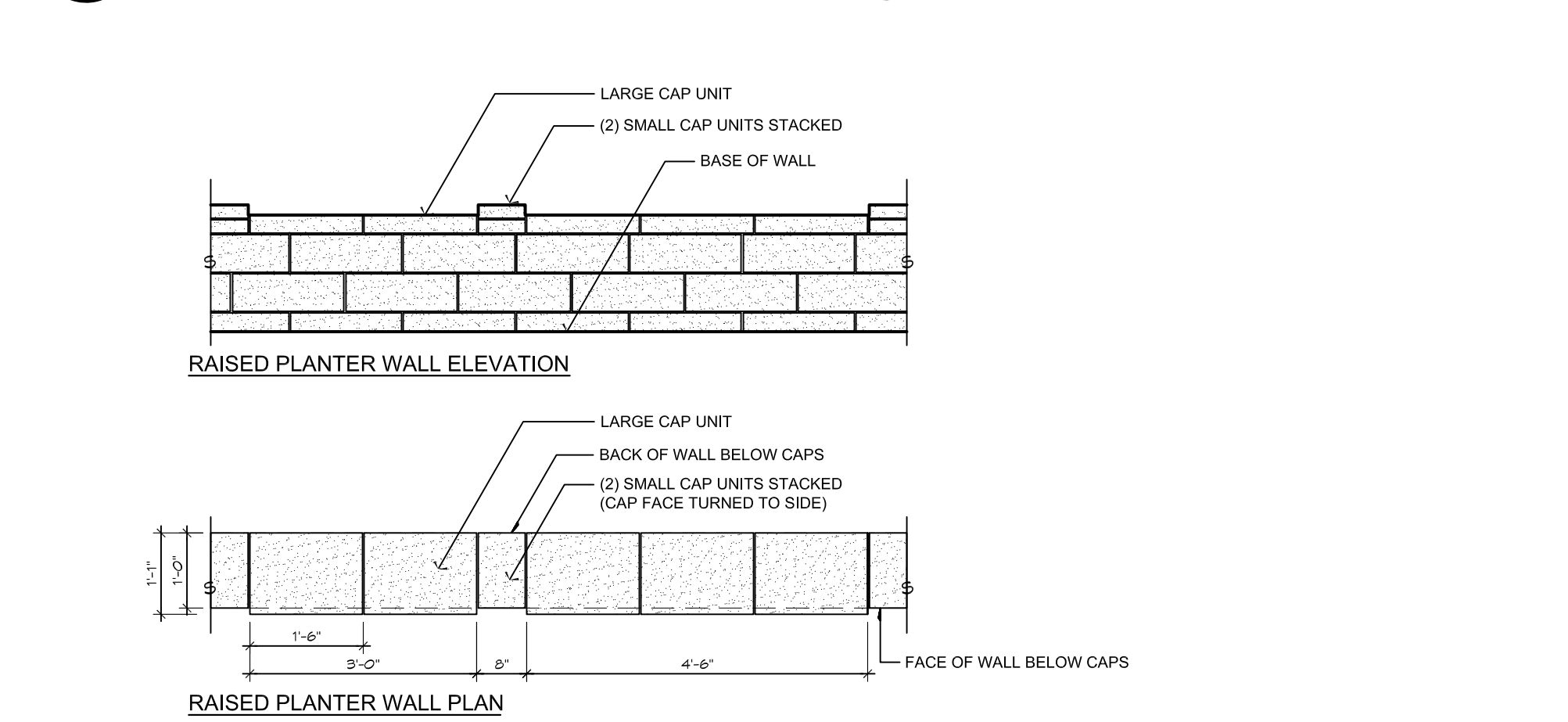
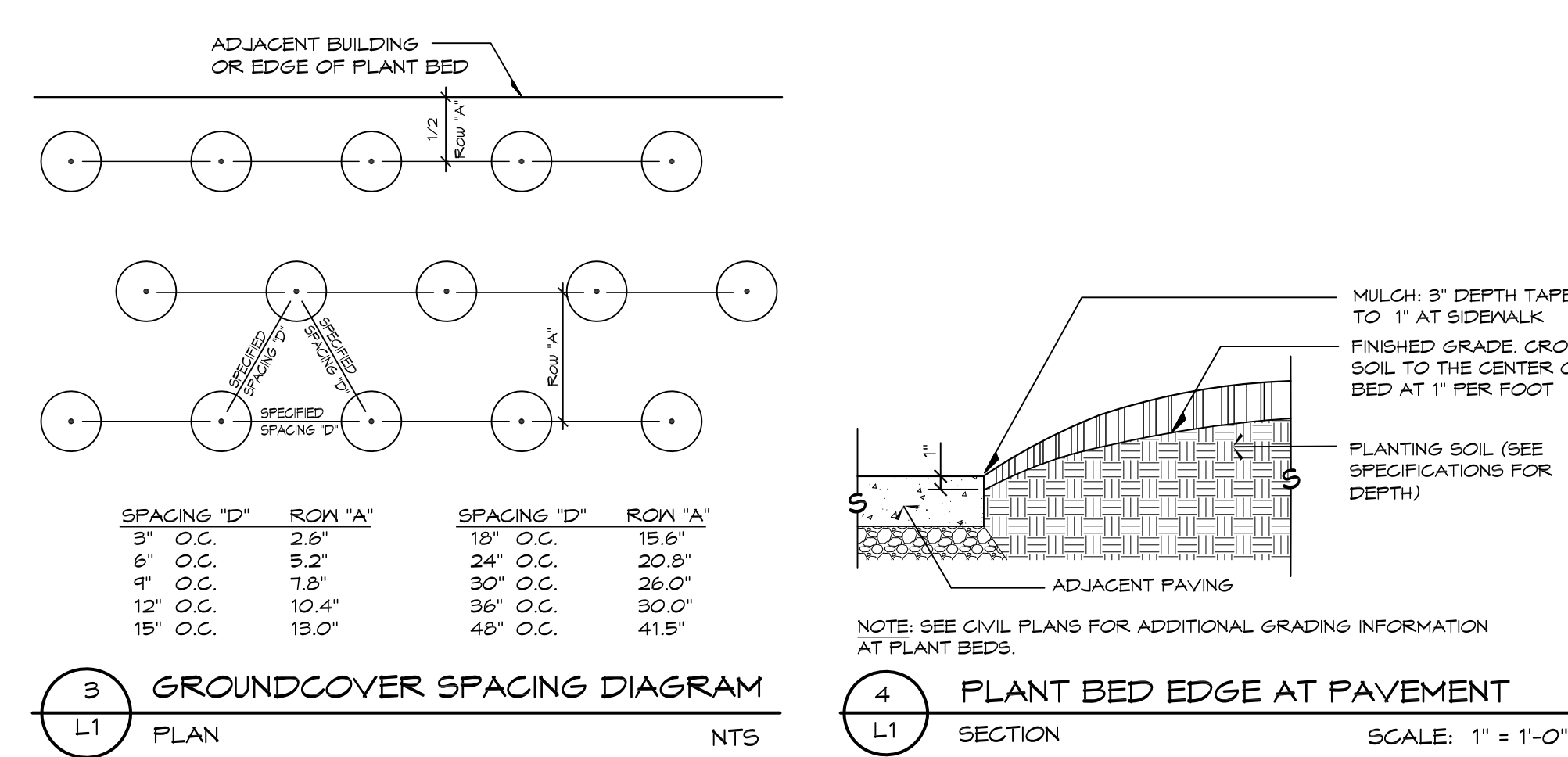
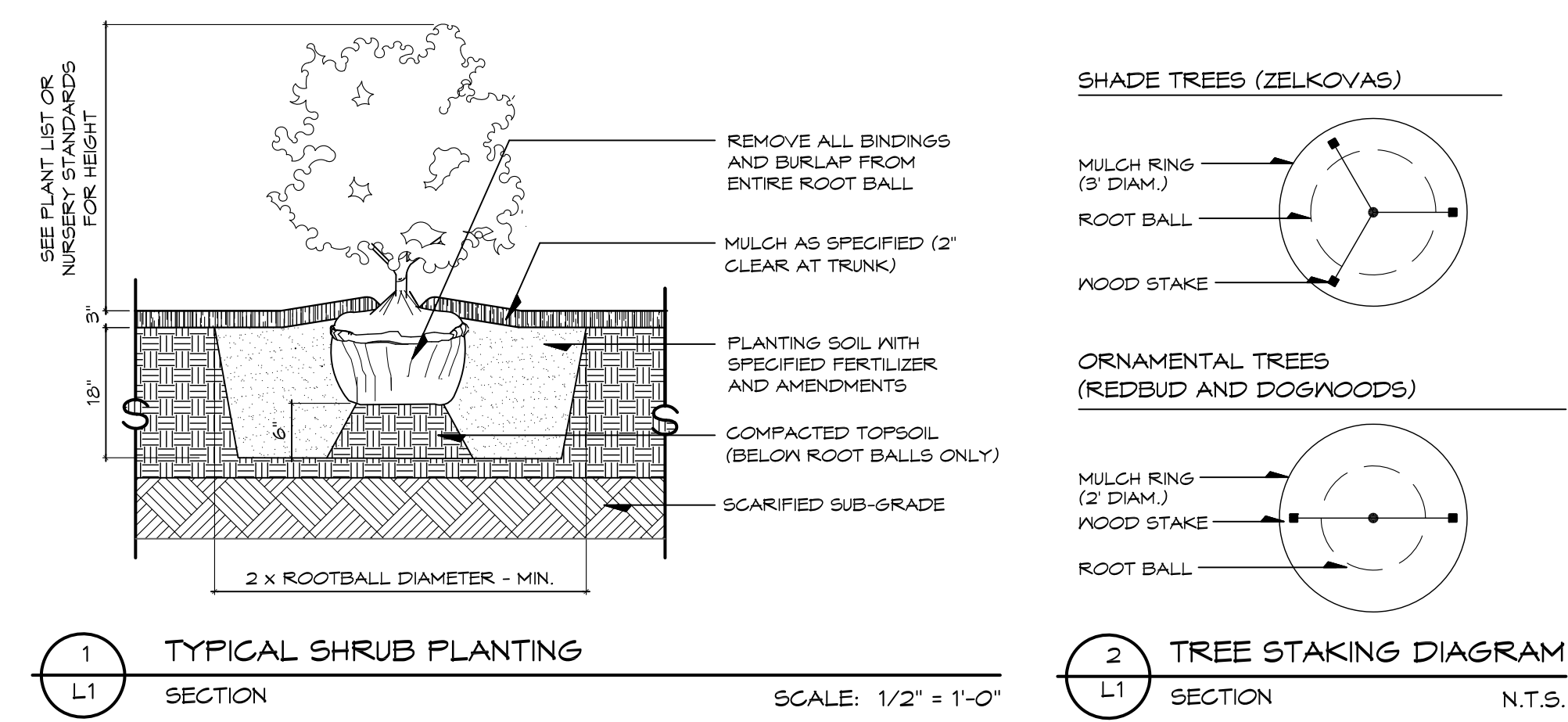
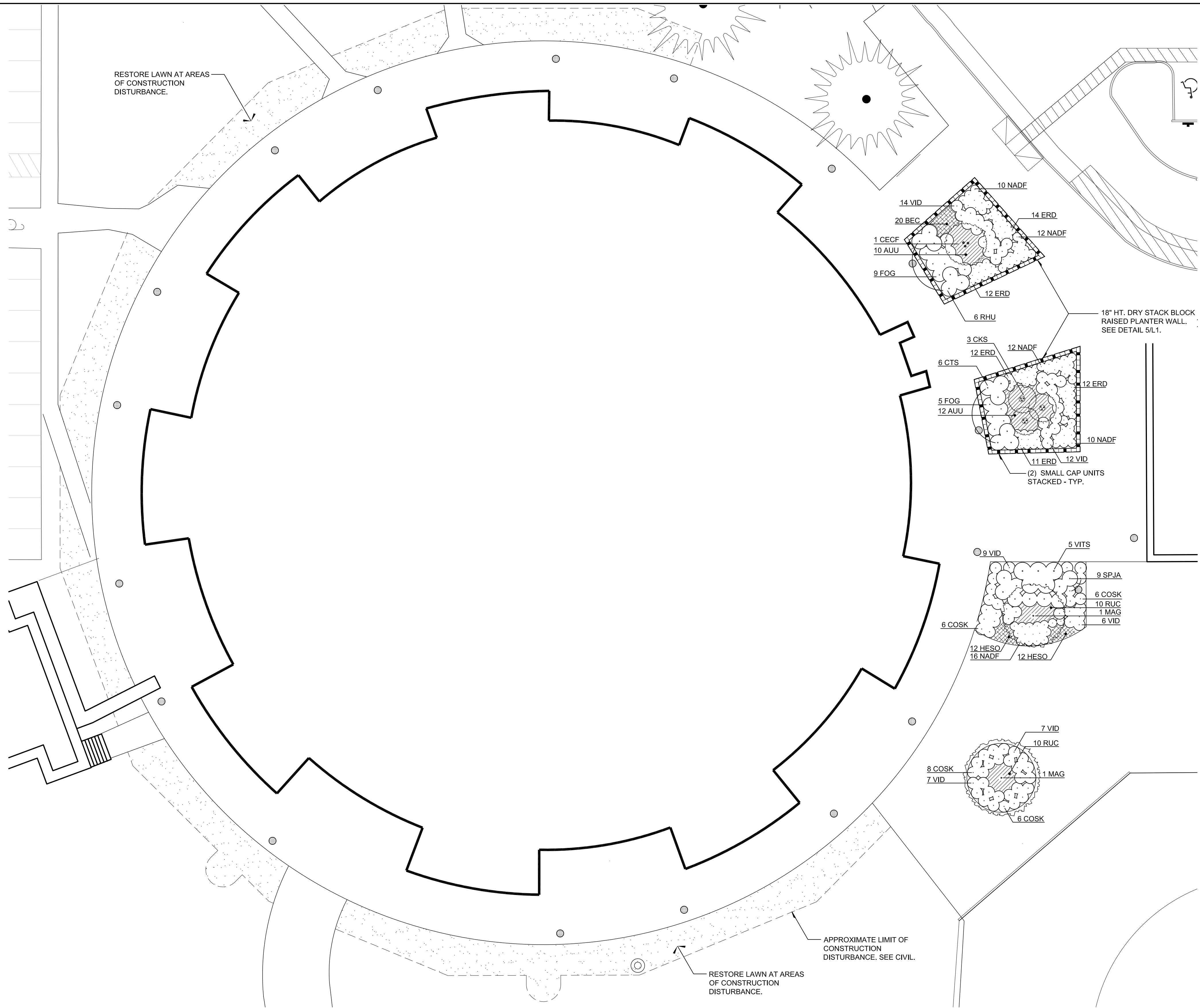
Facilities Management  
School District 4J  
715 W. 4th Avenue  
Eugene, OR 97402  
(541) 687-3257

**AWBREY PARK & SPRING CREEK  
ELEMENTARY SCHOOLS - CONCRETE WALK  
& STORM DRAIN MAINTENANCE**  
AWBREY PARK - 158 SPRING CREEK DRIVE, EUGENE, OR 97404  
SPRING CREEK - 560 IRVINGTON DRIVE, EUGENE, OR 97404

REVISIONS		
SYM	DATE	REFERENCE

PROJECT: 171601  
DRAWN: BJR  
CHECKED: BJR  
DATE: 04/30/2018  
DRAWING TITLE  
PAVING PLAN - AWBREY PARK ES

DRAWING NUMBER  
**C5.0**



**PLANT SCHEDULE**

KEY	QTY.	BOTANICAL NAME	COMMON NAME	MIN. SIZE	COMMENTS
<b>TREES</b>					
CECF	1	<i>Cercis canadensis</i> 'Forest Pansy'	Forest Pansy Red bud	10' ht.	multi-stem, B&B, matching, full
CKS	3	<i>Cornus kousa</i> 'Satomi'	Satomi Dogwood	8' ht.	multi-stem, B&B, matching, full
MAG	2	<i>Magnolia grandiflora</i>	Southern Magnolia	3' cal.	Matching, full, B&B
<b>SHRUBS</b>					
CTS	6	<i>Cholisia ternata</i> 'Sundance'	Sundance Mexican Orange	5 gal.	matching, full, staked
COSK	26	<i>Cornus sericea</i> 'Kelsey'	Dwarf Redtwig Dogwood	3 gal.	matching, full
ERD	61	<i>Erica darleyensis</i> 'Furzey'	Furzey Heather	2 gal.	
FOG	14	<i>Fothergilla gardenii</i>	Dwarf Fothergilla	3 gal.	matching, full
NADF	60	<i>Nandina domestica</i> 'Fire Power'	Fire Power Nandina	2 gal.	matching, full
RHU	6	<i>Rhododendron</i> 'Unique'	Unique Rhododendron	5 gal.	matching, full
SPJA	9	<i>Spiraea japonica</i> 'Anthony Waterer'	Anthony Waterer Spiraea	3 gal.	matching, full
VID	55	<i>Viburnum davidii</i>	David Viburnum	3 gal.	matching, full
VITS	5	<i>Viburnum tinus</i> 'Spring Bouquet'	Spring Bouquet Viburnum	5 gal.	matching, full
<b>GROUNDCOVERS AND PERENNIALS</b>					
AUU	22	<i>Arctostaphylos uva-ursi</i>	Kinnikinnick	1 gal.	matching, full, 24" o.c.
BEC	20	<i>Bergenia crassifolia</i>	Heartleaf Bergenia	1 gal.	matching, full, 18" o.c.
HESO	24	<i>Hemerocallis</i> 'Stella D' Oro'	Stella D' Oro Daylily	1 gal.	matching, full
RUC	20	<i>Rubus calycinoides</i>	Creeping Raspberry	1 gal.	matching, full, 24" o.c.

**LEGEND**

- SINGLE STEM TREE
- MULTI-STEM TREE
- SHRUBS
- PERENNIALS
- GROUNDCOVER
- RESTORED LAWN (TO ORIGINAL CONDITION)

**GENERAL NOTES:**

- SEE SURVEY FOR EXISTING CONDITIONS.
- SEE CIVIL FOR GRADING AND DRAINAGE.
- SEE SHEET L2 FOR IRRIGATION.
- SEE SPECIFICATIONS FOR ADDITIONAL LANDSCAPE AND IRRIGATION REQUIREMENTS.
- LAWN SEED TO BE J.B. SIGNATURE BLEND FROM J.B. INSTANT LAWN.

**DLA**  
DOUGHERTY  
LANDSCAPE  
ARCHITECTS

474 Willamette Street  
Suite 305  
Eugene, Oregon 97401

P 541.683.5803  
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REGISTERED  
279  
David J. Dougherty  
OREGON  
LANDSCAPE ARCHITECT

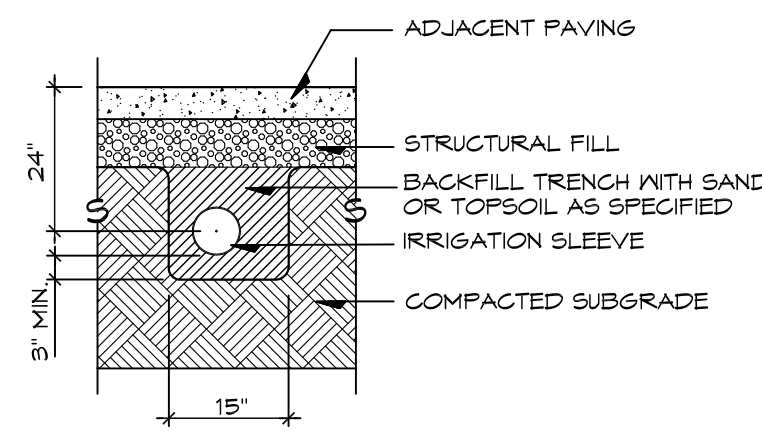
**Awbrey Park Elementary School**  
158 Spring Creek Drive  
Eugene, OR 97404

Date: 04-16-18  
Drawn By: EP  
Checked By: DJD  
Submission:

Revisions

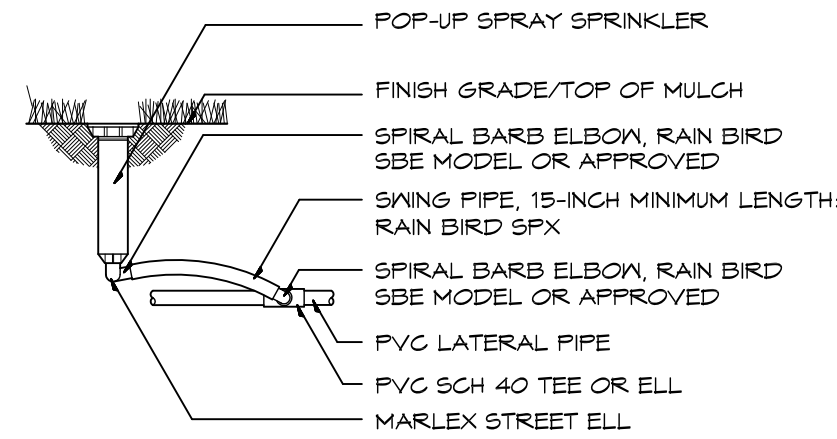
**L1**

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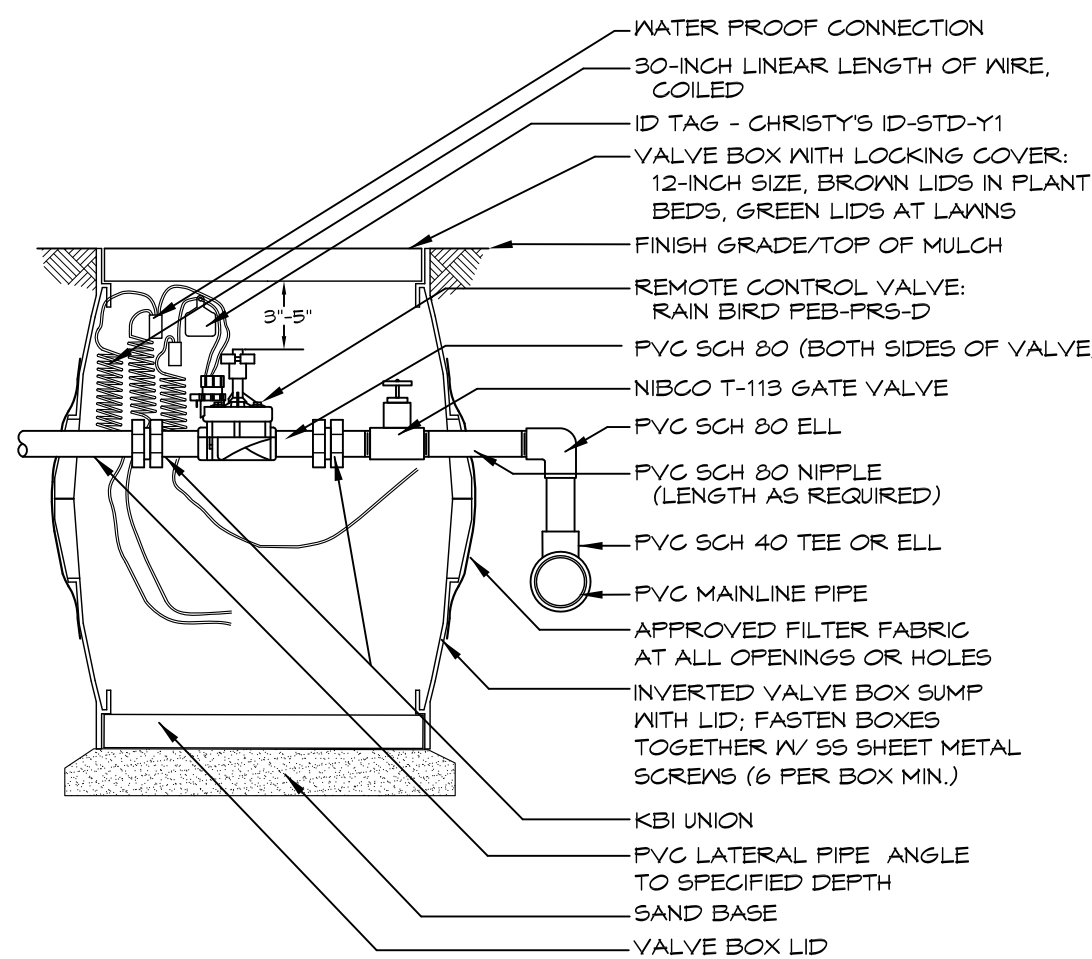


NOTE: - EXTEND SLEEVES 4" BEYOND PAVEMENT EDGES.  
 - INSTALL 1x2 RED-TOP WOOD LOCATION STAKES @ FACE OF WALK OR CURB @ BOTH ENDS OF ALL IRRIGATION SLEEVES. HOLD DOWN 1" BELOW TOP OF CURB OR WALK.  
 - INSTALL SLEEVES AT SIZES NOTED.

1 IRRIGATION SLEEVING  
 SECTION SCALE: 1/2" = 1'-0"

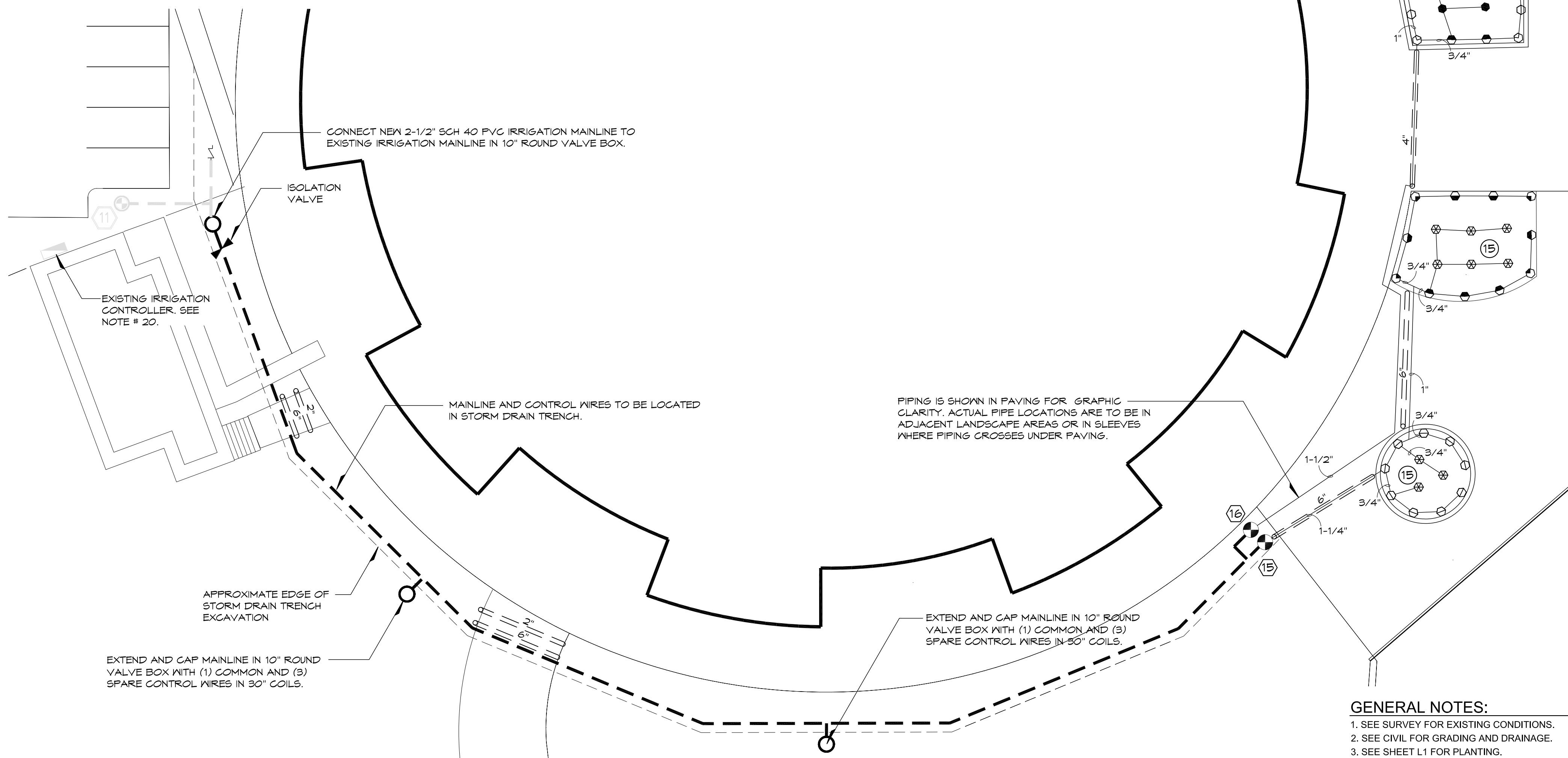


2 FLUSH MOUNTED POP-UP SPRAY SPRINKLER  
 SECTION SCALE: 1" = 1'-0"



NOTE: CONTRACTOR TO COMPACT BACKFILL IN LIFTS. SATURATE SOIL AROUND VALVE BOX ASSEMBLY. RE-COMPACT AND PROVIDE ADDITIONAL MATERIAL AS NECESSARY TO PREVENT SETTLING OF BOX ASSEMBLY UNDER MOWER WEIGHT.

3 AUTOMATIC CONTROL VALVE  
 SECTION SCALE: 1" = 1'-0"



SPRING CREEK DRIVE

GENERAL IRRIGATION NOTES

1. CONVENE ON-SITE MEETING WITH LANDSCAPE ARCHITECT, IRRIGATION CONTRACTOR AND SCHOOL DISTRICT REPRESENTATIVE PRIOR TO STARTING ANY IRRIGATION WORK AND EACH OF THE FOLLOWING INSPECTIONS OR MEETINGS:
  - PRE-CONSTRUCTION MEETING
  - MAINLINE PRESSURE TEST PRIOR TO BACKFILLING (INCLUDING PRESSURE TEST OF EXISTING MAINLINE PRIOR TO CONSTRUCTION).
  - SYSTEM PERFORMANCE TEST
2. CONTRACTOR TO CALL FOR UTILITY LOCATE PRIOR TO START OF WORK ON SITE. LOCATE ALL ADJACENT UTILITIES AND OTHER EQUIPMENT PRIOR TO WORK. CONTRACTOR RESPONSIBLE FOR REPAIRING ALL DAMAGE TO EXISTING FACILITIES AND EQUIPMENT AS APPROVED.
3. HAND EXCAVATE WITHIN VICINITY OF EXISTING UTILITIES TO REMAIN.
4. CONTRACTOR TO VERIFY SUFFICIENT WATER VOLUME AND PRESSURE AT SITE TO OPERATE SYSTEM AS DESIGNED PRIOR TO START OF WORK. (25 PSI MINIMUM TO FURTHEST HEAD)
5. VALVE BOXES TO BE LOCATED IN LANDSCAPE AREAS WHERE POSSIBLE.
6. PIPING TO BE LOCATED IN SLEEVES UNDER PAVING.
7. CONTROL WIRES NOT IMMEDIATELY ADJACENT TO MAINLINE PIPING TO BE INSTALLED IN CONDUIT.
8. CONTRACTOR TO VERIFY SLEEVING AS SHOWN IS SUFFICIENT TO INSTALL SYSTEM INCLUDING SPARE WIRES. CONTRACTOR RESPONSIBLE FOR PROVIDING ADDITIONAL SLEEVING IF NECESSARY.
9. NE AND SW EXPOSURES TO BE SCHEDULED TO COMPENSATE FOR DIFFERING SOLAR EXPOSURE EFFECTS ON WATERING REQUIREMENTS.
10. PIPE SIZES INDICATED APPLY TO ALL PIPING DOWNSTREAM FROM LABEL TO NEXT INDICATED PIPE SIZE. CONTRACTOR TO VERIFY MAX. VELOCITY OF 5' PER SECOND. PROVIDE PIPE SIZING DIAGRAM FOR APPROVAL BY LANDSCAPE ARCHITECT IF PROPOSED LATERAL PIPING LAYOUT DIFFERS FROM IRRIGATION PLAN.
11. SEE SPECIFICATIONS FOR ADDITIONAL IRRIGATION SYSTEM AND RECORD DRAWING REQUIREMENTS.

EXISTING TREE PROTECTION NOTES

1. PROTECT ROOT ZONE AND PLANT STRUCTURE OF ALL EXISTING TREES TO REMAIN.
2. HAND TRENCH THROUGH ROOT ZONE OF EXISTING TREES TO REMAIN. TUNNEL BELOW SIGNIFICANT ROOTS. CUT NO ROOT LARGER THAN 2" DIAMETER WITHOUT WRITTEN PERMISSION FROM OWNERS AUTHORIZED REPRESENTATIVE.
3. REGRADE AND RESEED ALL LAWN AREAS DISTURBED BY CONSTRUCTION ACTIVITIES.

EXISTING AND RETROFIT IRRIGATION NOTES

1. CONTRACTOR TO TEST EXISTING IRRIGATION SYSTEM PRIOR TO START OF WORK. CONTRACTOR TO DOCUMENT ANY FAILURES OF OPERATION AND TO NOTIFY OWNERS REPRESENTATIVE PRIOR TO START OF WORK.
2. CONTRACTOR TO COORDINATE DISRUPTION OF EXISTING IRRIGATION WITH OWNER TO ALLOW SATURATION OF EXISTING PLANT MATERIAL PRIOR TO DISRUPTION OF IRRIGATION WATER SUPPLY.
3. EXCAVATE BY HAND WITHIN AREAS OF EXISTING IRRIGATION PIPING AND CONTROL WIRES TO REMAIN.
4. IMMEDIATELY CAP MAINLINE AND LATERAL LINES AFTER CUTTING TO PREVENT CONTAMINATION OF EXISTING SYSTEM DURING IRRIGATION WORK.
5. CLEANLY CUT AND CAP ALL EXISTING IRRIGATION AT LIMIT OF DISTURBANCE LINES SHOWN PRIOR TO START OF SITE WORK.
6. STAKE LOCATION OF, PROTECT AND RESTORE ALL EXISTING IRRIGATION SYSTEM COMPONENTS TO FULL OPERATION.
7. REMOVE ALL EXISTING IRRIGATION EQUIPMENT AT ZONE #5, 15 AND 16. REMOVED EQUIPMENT TO BE PROVIDED TO OWNER.
8. LABEL WIRES ON BOTH SIDES OF ANY PROPOSED CUT(S) PRIOR TO CUTTING WIRES. CUT WIRES WITH 48" INCH LENGTH OF EXTRA WIRE.
9. WIRES TO BE LABELED ACCORDING TO ZONE NUMBER ON BOTH SIDES OF SPLICE(S) WHEN RECONNECTED.
10. ANY CONTROL WIRE SPLICES TO BE IN 12" STANDARD VALVE BOX AND WIRES CONNECTED USING SPECIFIED WATERPROOF CONNECTORS.
11. CONTRACTOR RESPONSIBLE FOR ENSURING THAT ALL EXISTING ZONES OPERATE CORRECTLY UPON RE-CONNECTION OF CONTROL WIRES.
12. OPERATE AFFECTED ZONES UPON REASSEMBLY OF LATERAL LINES AND CHECK FOR CLOGGED NOZZLES. CLEAN OR REPLACE AS NECESSARY.
13. THOROUGHLY FLUSH MAINLINE SYSTEM UPON RECONNECTION TO ENSURE NO DEBRIS REMAINS. ZONES TO BE MODIFIED AS NECESSARY TO MATCH PRE-DISTURBANCE COVERAGE UPON COMPLETION OF CONSTRUCTION ACTIVITY.
14. HAND WATER EXISTING PLANT MATERIAL AS NECESSARY THROUGH CONSTRUCTION AND REPLACE ANY EXISTING PLANT MATERIAL AFFECTED BY DISRUPTION OF EXISTING IRRIGATION SYSTEM.
15. MAINLINE AND CONTROL WIRE STUBS WHERE GAPPED TO BE LOCATED IN 10" ROUND VALVE BOXES.
16. PRESSURE TEST EXISTING SYSTEM BEFORE AND AFTER ANY MAINLINE DISTURBANCE AND RESTORE MAINLINE TO PREDISTURBANCE CONDITION.
17. EXISTING AS-BUILT DRAWINGS ARE TO BE PROVIDED TO CONTRACTOR.
18. NOTE THE FOLLOWING EXISTING EQUIPMENT TO REMAIN: WATER METER, BACKFLOW PREVENTER, IRRIGATION MAINLINE AND IRRIGATION CONTROLLER.
19. EXTEND ZONE AND COMMON WIRES FROM EXISTING IRRIGATION CONTROLLER TO MAINLINE STUBOUT LOCATION AND VALVE NUMBERS 15 AND 16.
20. AUTHORIZED 4J REPRESENTATIVE TO INSPECT AND REVIEW ZONE OPERATION PRIOR TO FINAL ACCEPTANCE. ALL ZONES TO OPERATE AS INDICATED ON NEW, UPDATED COLOR CODED ZONE CHART.
21. PROVIDE NEW, UPDATED, COLOR ZONE CHART PRIOR TO 4J INSPECTION.
22. SEE CIVIL GRADING AND UTILITY PLANS FOR ADDITIONAL AREAS OF SITE DISTURBANCE. REVISE IRRIGATION AT THESE AREAS AS REQUIRED TO PROVIDE PRE-CONSTRUCTION COVERAGE.

HEAD SCHEDULE

SYMBOL	MAKE	MODEL	NOZZLE	PSI	GPM
●	RAIN BIRD	1806	10F	25	1.44
○	RAIN BIRD	1806	10H	25	.72
⊖	RAIN BIRD	1806	10Q	25	.36
⊗	RAIN BIRD	1806	8F	25	.82
⊙	RAIN BIRD	1806	8H	25	.41
⊚	RAIN BIRD	1806	8Q	25	.21

VALVE SCHEDULE

(ONLY ZONES WITHIN SCOPE OF WORK ARE LISTED)

ZONE	AREA	HEAD	PSI	GPM	SIZE
15	PLANT BED SOUTH	1806	25	14.35	1"
16	RAISED PLANTERS	1806	25	24.80	1-1/2"
17 - 24	SPARE				

VALVES TO BE EQUIPPED WITH PRS-D PRESSURE REGULATOR

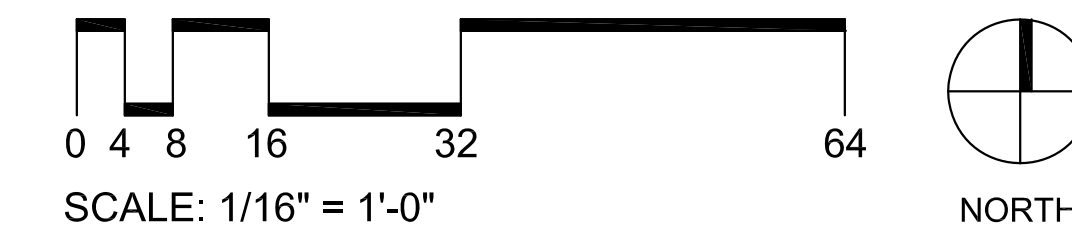
LEGEND

- AUTOMATIC CONTROL VALVE - RAIN BIRD PEB IV PRSD PRESSURE REGULATION DIAL
- EXISTING AUTOMATIC CONTROL VALVE
- 1" LATERAL LINE AND SIZE
- NEW 2-1/2" SCH 40 IRRIGATION MAINLINE
- ☼ EXISTING TREES TO REMAIN
- ⊖ ISOLATION VALVE - NIBCO T113
- — EXISTING IRRIGATION MAINLINE
- == IRRIGATION SLEEVE (SCH 40 PVC) SIZE NOTED
- Ⓜ IRRIGATION VALVE NUMBER
- Ⓜ EXISTING IRRIGATION VALVE NUMBER
- Ⓜ IRRIGATION ZONE NUMBER

GENERAL NOTES:

1. SEE SURVEY FOR EXISTING CONDITIONS.
2. SEE CIVIL FOR GRADING AND DRAINAGE.
3. SEE SHEET L1 FOR PLANTING.
4. SEE SPECIFICATIONS FOR ADDITIONAL LANDSCAPE AND IRRIGATION REQUIREMENTS.

IRRIGATION PLAN

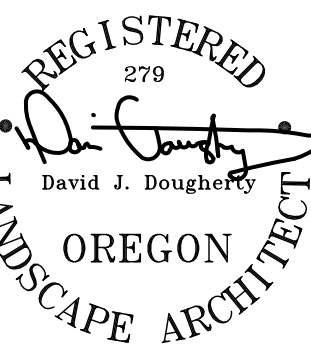


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Awbrey Park Elementary School

158 Spring Creek Drive Eugene, OR 97404

Date: 04-16-18

Drawn By: EP

Checked By: DJD

Submission:

Revisions

△

△

△

△

L2

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