

EUGENE SCHOOL DISTRICT 4J
TWIN OAKS ELEMENTARY SCHOOL
SOUTH PARKING LOT UPGRADE

CIP: 420.343.009



VICINITY MAP
NOT TO SCALE

SURVEY LEGEND

- △ — TRANSIT POINTS
- — BENCH MARK
- — AREA DRAIN
- — AREA DRAIN
- — CLEAN OUT
- ★ — CONIFER TREE
- — CHAIN LINK FENCE
- — BARB WIRE FENCE
- ⊗ — MONITORING WELL
- ⊕ — FUEL TANK MANHOLES
- ⊕ — TELEPHONE RISER
- ⊕ — POWER POLE
- ⊕ — GUY LINE POLE
- ⊕ — BASKETBALL HOOP
- ⊕ — PROPERTY CORNER PER CSF #

LEGEND

- ⊕ — SANITARY MANHOLE
- ⊕ — STORM MANHOLE
- — AREA DRAIN
- — CATCH BASIN
- — SPRINKLER
- ⊕ — WATER VALVE
- ⊕ — BOLLARD
- ⊕ — UTILITY VAULT
- ★ — CEDAR
- ★ — FIR
- ★ — DECIDUOUS

CONTACTS

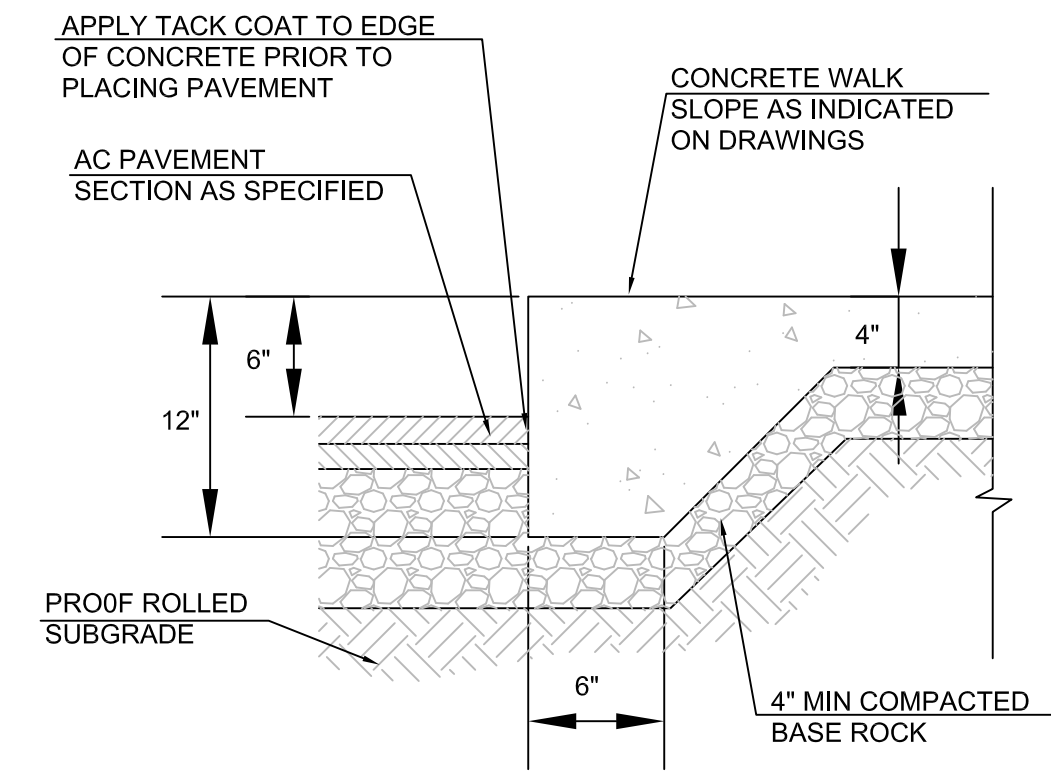
OWNER'S REPRESENTATIVE:
KIRK GEBB
EUGENE SCHOOL DISTRICT 4J
715 E. 4TH AVE
EUGENE, OR 97402
TEL (541) 790-7431
FAX (541) 790-7420

CIVIL ENGINEER:
BARBARA ROBERTS, P.E.
ROBERTS CONSULTING & ENGINEERING
3220 TILDEN STREET, SUITE A
EUGENE, OREGON 97404
TEL (541) 689-9197
FAX (541) 461-5443

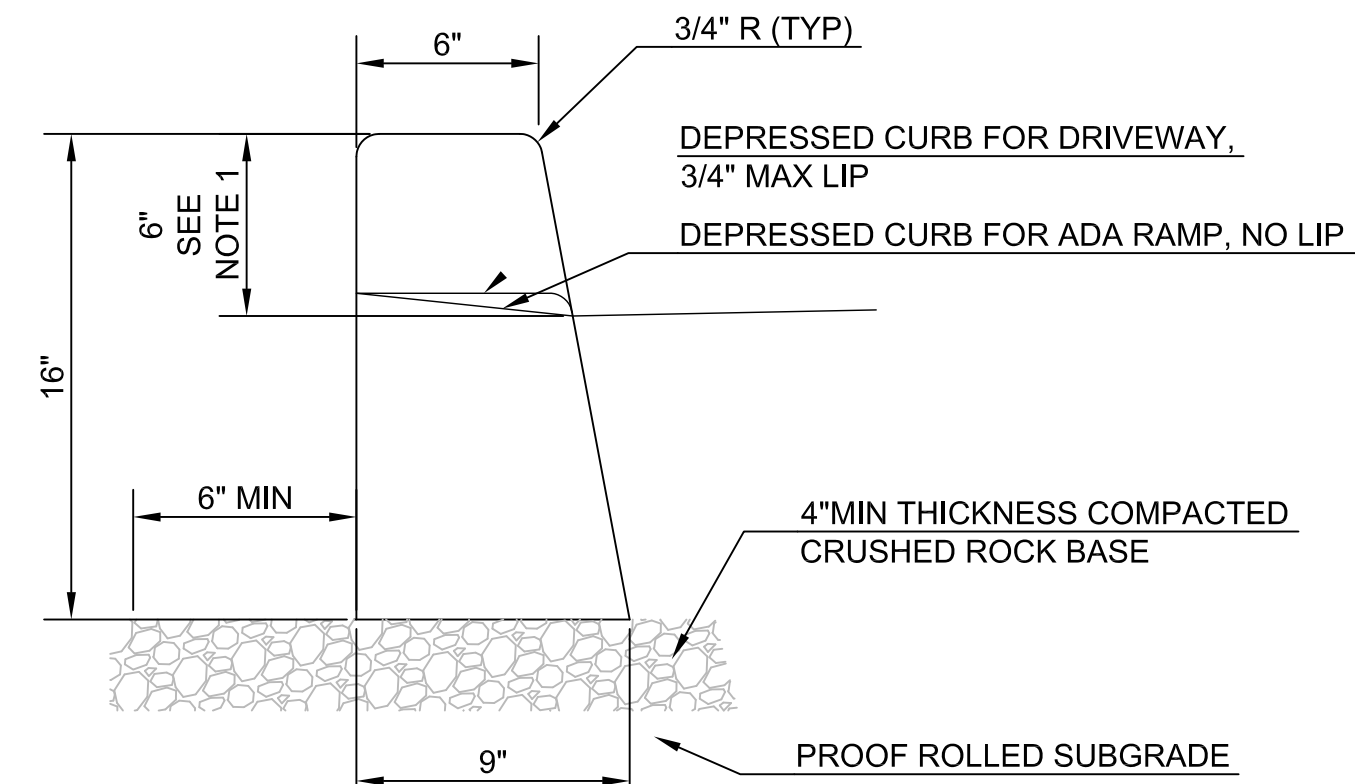
CIVIL SHEET INDEX

- C1.0 GENERAL NOTES, LEGEND & DETAILS
- C2.0 SITE PLAN
- C3.0 CONSTRUCTION SITE MANAGEMENT PLAN
- C3.1 CONSTRUCTION SITE MANAGEMENT NOTES & DETAILS
- C4.0 HORIZONTAL CONTROL PLAN
- C5.0 GRADING PLAN
- C6.0 SITE UTILITY PLAN
- C7.0 PAVING PLAN

LANE COUNTY HAS INDICATED NO COUNTY PERMITS ARE REQUIRED FOR THE SCOPE OF WORK FOR THIS PROJECT.

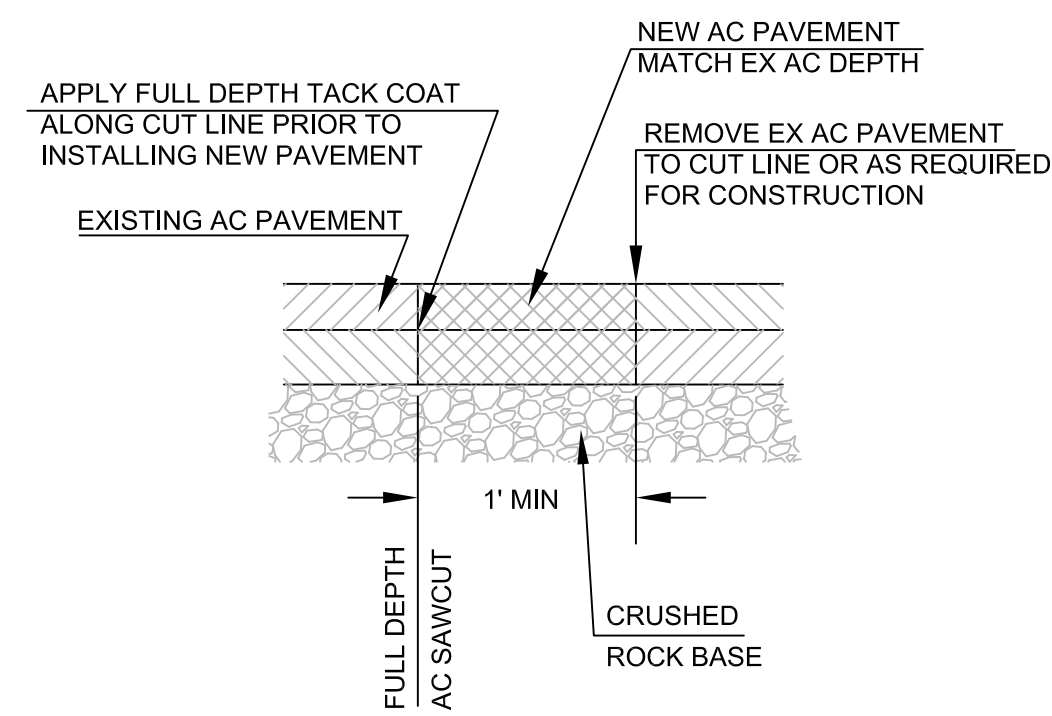


2 THICKENED EDGE SIDEWALK
NO SCALE



- NOTES:
1. 6" EXPOSURE UNLESS SHOWN OTHERWISE ON GRADING PLAN.
2. CURB SHALL HAVE 8" DEEP CONTROL JOINTS AT MAX 15' SPACING.
3. EXTEND CRUSHED ROCK BASE 6" MIN BEYOND BACK OF CURB.

3 FULL DEPTH CURB
NO SCALE



1 TYPICAL SAWCUT SECTION
NO SCALE

GENERAL NOTES:

- EXISTING TOPOGRAPHIC INFORMATION IS FROM SURVEY PROVIDED BY BAKER & ASSOCIATES, DECEMBER 22, 2014.
- ELEVATIONS SHOWN ON THE DRAWING ARE BASED ON LCCM 657 MARKED 447.3' (NGVD29). PROJECT BENCHMARK IS A 5/8" SET BEHIND THE CURB AT THE SOUTHERLY END OF THE CENTER ISLAND AT THE FRONT OF THE SCHOOL.
- BASIS OF BEARING: SOUTH LINE OF PROPERTY BETWEEN FOUND MONUMENTS PER CSF 41955.
- PERFORM WORK NECESSARY TO COMPLETE THE PROJECT IN ACCORDANCE WITH THE APPROVED CONSTRUCTION DRAWINGS INCLUDING SUCH INCIDENTALS AS MAY BE NECESSARY TO MEET APPLICABLE AGENCY REQUIREMENT.
- NOTIFY THE COUNTY AND ALL UTILITY COMPANIES A MINIMUM OF 48 BUSINESS HOURS (2 BUSINESS DAYS) PRIOR TO START OF CONSTRUCTION, AND COMPLY WITH ALL OTHER REQUIREMENTS OF ORS 757.541 TO 757.571
- 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. REFER TO SHEET 3.0, CSMF, FOR REQUIRED PROJECT TEMPORARY EROSION CONTROL MEASURES.
- REFER TO SHEET C5.0, GRADING PLAN, FOR VERTICAL CONTROL.
- REFER TO SHEET C4.0, FOR HORIZONTAL CONTROL AND SITE DIMENSIONING.

EXISTING UTILITIES & FACILITIES.

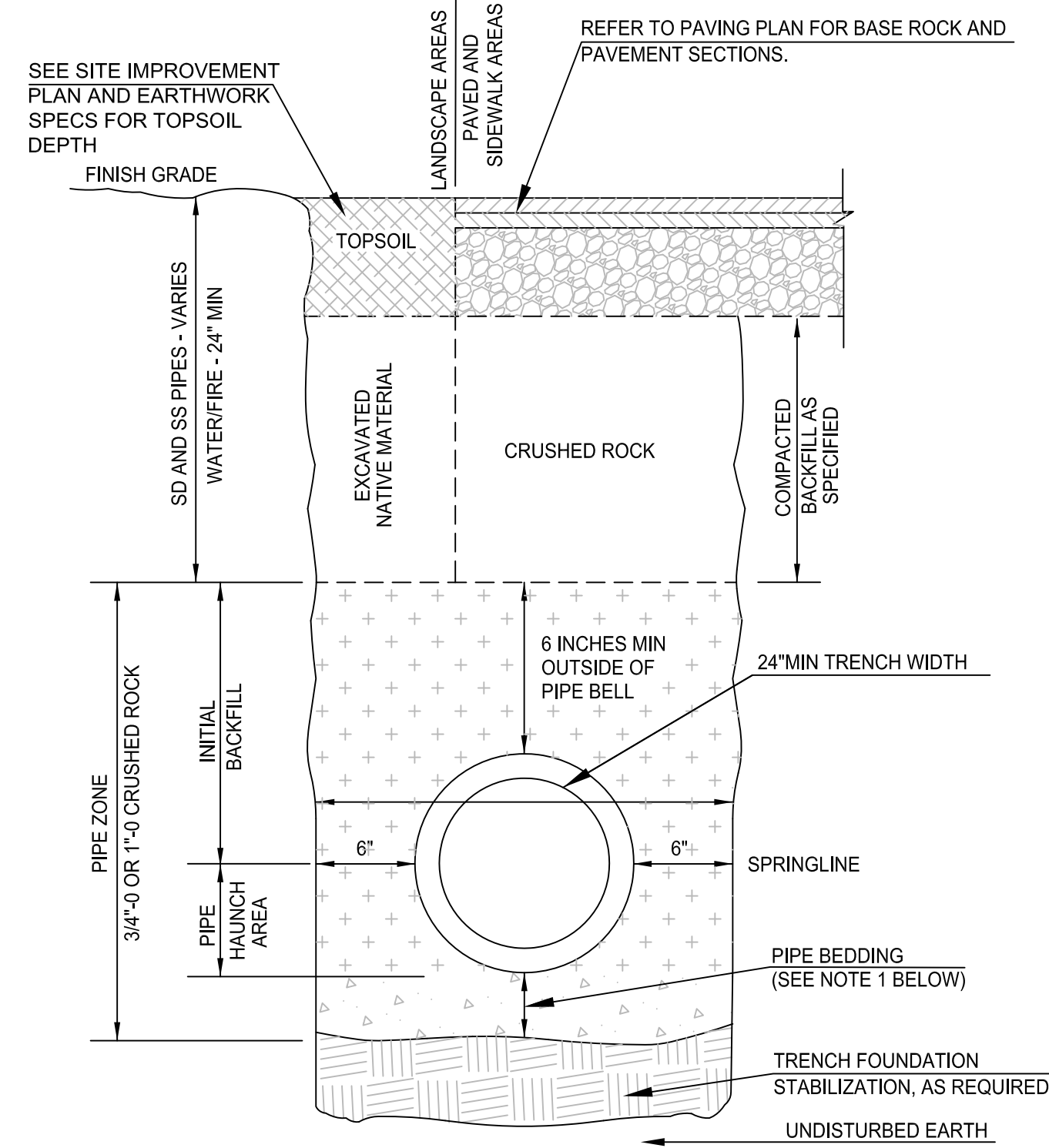
- LOCATION AND DESCRIPTION OF EXISTING UTILITIES SHOWN ON THE DRAWINGS ARE COMPILED FROM AVAILABLE RECORDS OR FIELD SURVEYS. THE OWNER AND UTILITY COMPANIES DO NOT GUARANTEE ACCURACY OR COMPLETENESS OF SUCH RECORDS. VERIFY SIZES AND LOCATIONS OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.
- PER OREGON 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 AND GEOTECHNICAL REPORT FOR EARTHWORK REQUIREMENTS. WORK SHALL CONFORM TO BOTH OF THESE.
- 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 IN THEY LIE.
- 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.



- NOTES:
1. MINIMUM PIPE BEDDING SHALL BE AS FOLLOWS:
4" FOR PIPE 12" IN DIAMETER OR LESS
6" FOR PIPE 15" TO 36" IN DIAMETER
8" FOR PIPE 42" IN DIAMETER OR GREATER
2. WATER LINES PARALLEL TO AND WITHIN 10 FEET OF SEWER PIPE SHALL BE INSTALLED A MINIMUM OF 12 INCHES ABOVE SEWER PIPE.

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 DRAINS 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, TIE 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.

CIVIL LEGEND

SYMBOL	ABBR.	DESCRIPTION	ABBR.	DESCRIPTION	ABBR.	DESCRIPTION
—SD—	SD	EX STORM DRAIN	4J	EUGENE SCHOOL DISTRICT 4J	GAL	GALLONS
—SS—	SS	EX SANITARY SEWER	AC	ASPHALT CONCRETE	LF	LINEAR FEET
—W—	W	EX WATER	APPROX	APPROXIMATE	MAX	MAXIMUM
—G—	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		
☒	CB	CATCH BASIN	DIA	DIAMETER	PSI	POUNDS PER SQUARE INCH
CO	CO	CLEANOUT	DIST	DISTANCE	PT	POINT
⊕	MH	MANHOLE	ELEV	ELEVATION	SF	SQUARE FOOT
⊕		CONSTRUCTION NOTE	EQ	EQUAL	TC	TOP OF CURB
⊕		SECTION REFERENCE	EX	EXISTING	TG	TOP OF GRAVEL
⊕		DETAIL REFERENCE	EWEB	EUGENE WATER AND ELECTRIC BOARD	TP	TOP OF PAVEMENT
⊕		SLOPE ARROW	FFE	FINISHED FLOOR ELEVATION	TW	TOP OF WALK
			FG	FINISHED GRADE	TYP	TYPICAL
			FS	FINISHED SURFACE		
			FT	FOOT		



EXPIRATION DATE: 12/31/2018

PROJECT TITLE



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

TWIN OAKS ELEMENTARY SCHOOL
SOUTH PARKING LOT UPGRADE
85916 BAILEY HILL ROAD, EUGENE, OR 97405

REVISIONS

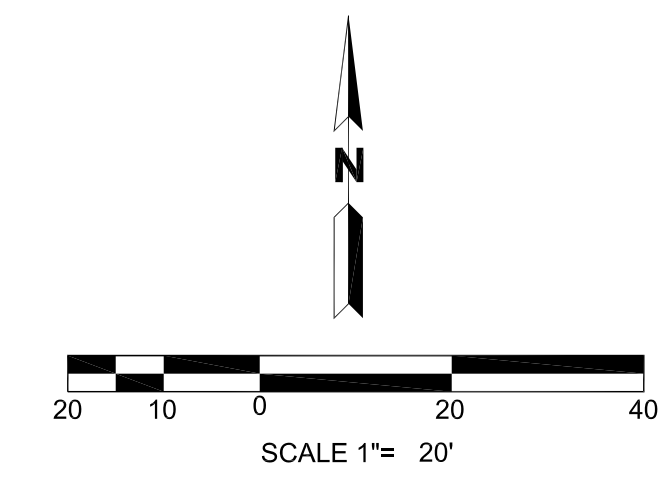
SYM	DATE	REFERENCE

PROJECT: 141603
DRAWN: BJR
CHECKED: BJR
DATE: 05/08/2015
DRAWING TITLE

GENERAL NOTES & LEGEND

DRAWING NUMBER

C1.0



SHEET NOTES:
 1. SEE C1.0 FOR CIVIL GENERAL NOTES AND LEGEND.
 2. LESS THAN 1 ACRE WILL BE DISTURBED DURING CONSTRUCTION; AN CONSTRUCTION EROSION CONTROL PERMIT (1200-C) IS NOT REQUIRED FOR THIS PROJECT. CONTRACTOR IS TO ADHERE TO ANY SITE PERMIT REQUIREMENTS, CONSTRUCTION SITE MANAGEMENT PLAN AND STANDARD EROSION CONTROL PRACTICES FOR THE DURATION OF CONSTRUCTION ACTIVITIES.

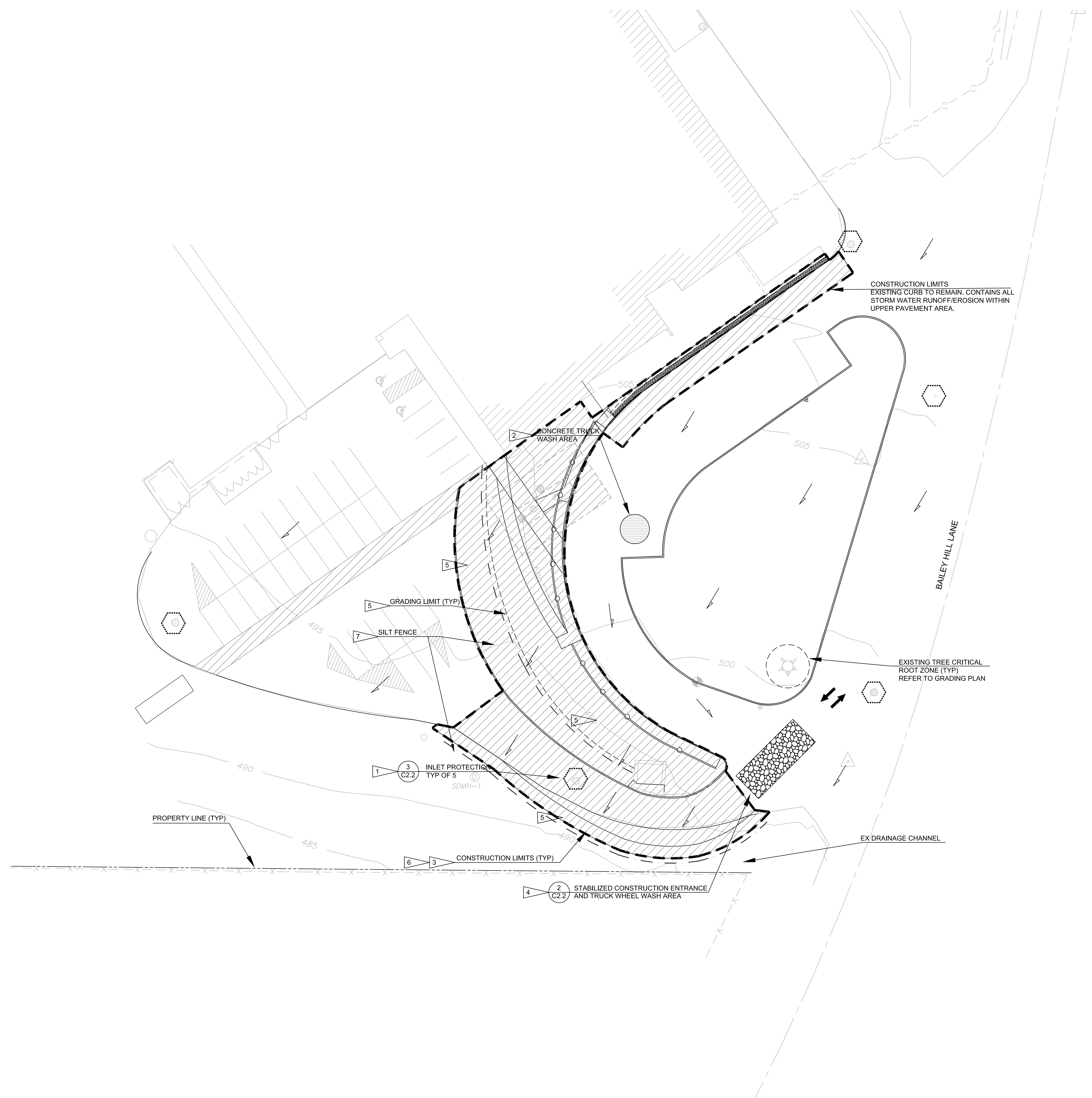
BMP RATIONALE AND IMPLEMENTATION
 A COMPREHENSIVE LIST OF AVAILABLE BEST MANAGEMENT PRACTICES (BMP) OPTIONS BASED ON DEQ'S 1200-C PERMIT APPLICATION AND ESCP GUIDANCE DOCUMENT HAS BEEN REVIEWED TO COMPLETE THIS EROSION AND SEDIMENT CONTROL PLAN. SOME OF THE LISTED BMP'S (SHEET C3.1) WERE NOT CHOSEN BECAUSE 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/C3.1. 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 LIMITS AND ACCESSES. 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 AREA TO SERVE AS STABILIZED CONSTRUCTION ENTRANCE AND GRAVEL ENTRANCE IS NOT REQUIRED. ENTRANCES AND LOCATIONS TO BE DETERMINED WITH THE CONTRACTOR AT THE PRE CONSTRUCTION MEETING.
 5. RESEED DISTURBED AREAS PER SHEET C2.0, SITE IMPROVEMENT PLANS, AND SPECIFICATIONS. IMPORTED TOPSOIL/LOAM REQUIRED IN THIS AREA.
 6. EXISTING VEGETATION SERVES AS VEGETATED BUFFER STRIP ALONG SOUTH EDGE OF ENTRANCE DRIVE.
 7. INSTALL SILT FENCE ALONG BOTTOM OF GRADING LIMITS, PER DETAIL 1/C3.1.

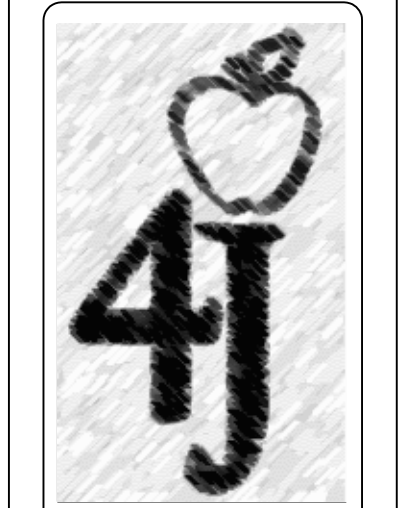
CSMP LEGEND

	GRADING LIMIT
	SEDIMENT FENCE OR BIO BERM
	CONCRETE TRUCK WASH
	INLET TO BE PROTECTED
	ESC
	ESCP
	CSMP
	BMP
	CONSTRUCTION TRAFFIC ROUTE
	EXISTING 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.



PROJECT TITLE



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

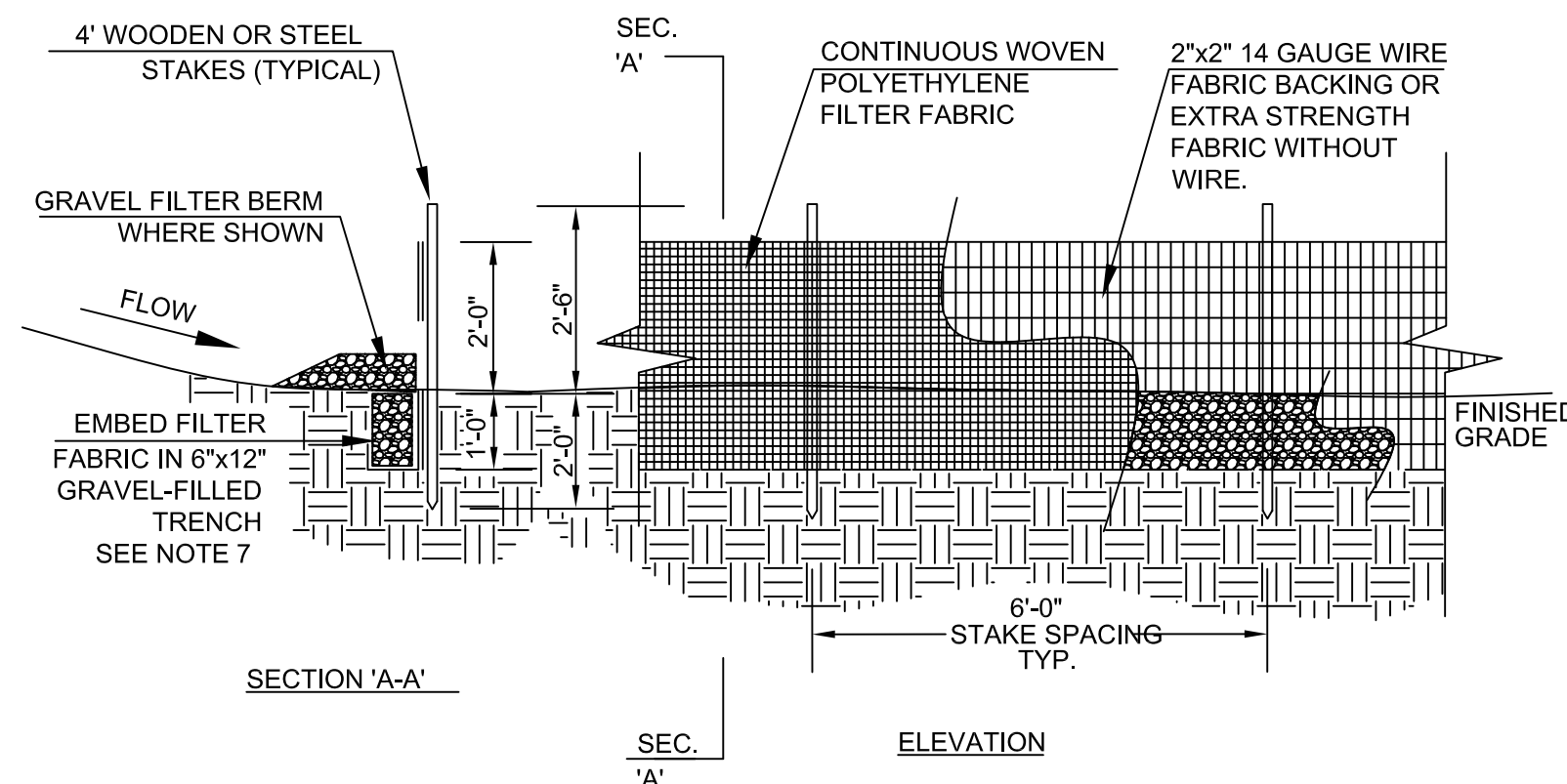
**TWIN OAKS ELEMENTARY SCHOOL
 SOUTH PARKING LOT UPGRADE**
 85916 BAILEY HILL ROAD, EUGENE, OR 97405

REVISIONS

SYM	DATE	REFERENCE

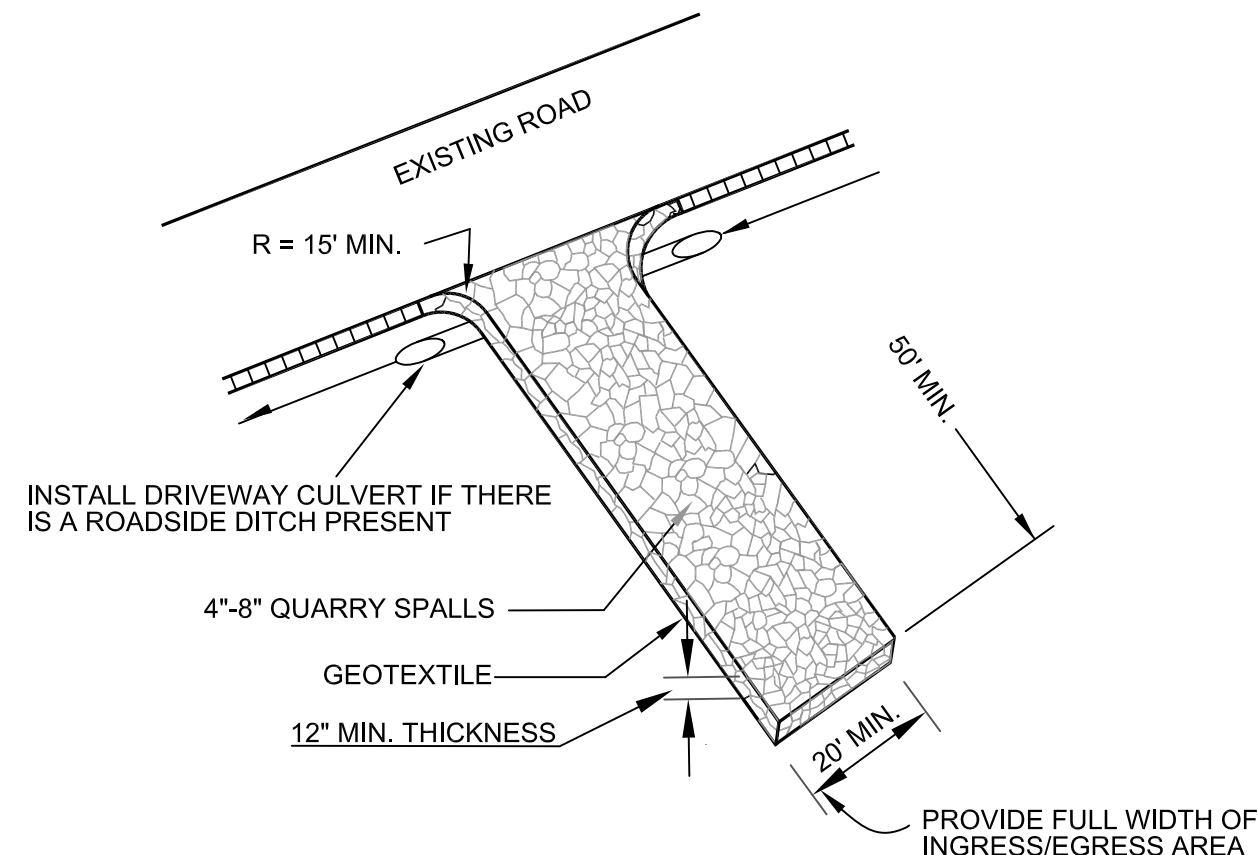
PROJECT: 141603
 DRAWN: BJR
 CHECKED: BJR
 DATE: 05/08/2015
 DRAWING TITLE
 CONSTRUCTION SITE MANAGEMENT PLAN
 DRAWING NUMBER

C3.0



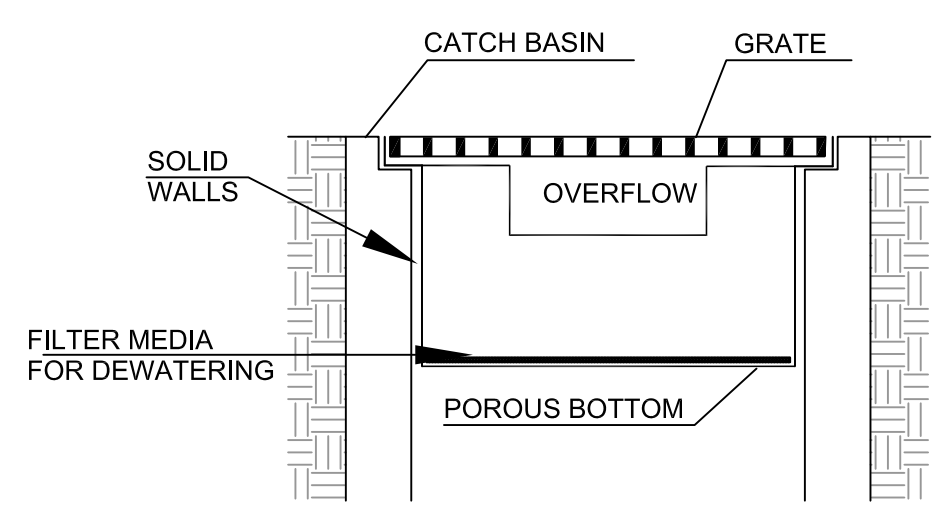
- NOTES:**
1. INSPECT AND MAINTAIN FILTER FENCE ON A DAILY BASIS.
 2. ATTACH FILTER MATERIAL TO WIRE BACKING, WHERE INDICATED, WITH STEEL HOG-RINGS OR TIES.
 3. FENCE SHALL BE INSTALLED ALONG CONTOUR WHENEVER POSSIBLE.
 4. JOINTS IN FILTER FABRIC SHALL BE SPICED AT POSTS WITH A MINIMUM 6" OVERLAP.
 5. 1:1 MAX SLOPE PERPENDICULAR TO FENCELINE.
 6. SYNTHETIC FILTER FABRIC SHALL CONTAIN ULTRAVIOLET RAY INHIBITORS AND STABILIZERS TO PROVIDE A MINIMUM OF 6 MONTHS OF CONSTRUCTION LIFE AT A TEMPERATURE RANGE OF 0°F TO 120°F.
 7. BIO BERM MAY BE INSTALLED AT BASE OF FILTER FABRIC IN LIEU OF BURYING BOTTOM, IF APPROVED BY ENGINEER.

1 SEDIMENT FENCE
NO SCALE



- NOTES:**
1. IT IS RECOMMENDED THAT THE ENTRANCE BE CROWNED SO THAT RUNOFF DRAINS OFF THE PAD.
 2. EXISTING PAVEMENT AREAS MAY BE USED AS STABILIZED ENTRANCE IN LIEU OF GRAVEL ENTRANCE IF SHOWN ON THE CONSTRUCTION SITE MANAGEMENT PLAN.

2 STABILIZED CONSTRUCTION ENTRANCE
NO SCALE



- NOTES:**
1. THIS DETAIL IS ONLY SCHEMATIC. ANY INSERT IS ALLOWED THAT HAS A MIN 0.6 C.F. OF STORAGE, THE MEANS TO DEWATER THE STORED SEDIMENT, AN OVERFLOW, AND CAN BE EASILY MAINTAINED.

3 CATCH BASIN INSERT
NO SCALE

CSPM PROJECT NOTES AND EXISTING SITE CONDITIONS:

1. ESTIMATED TOTAL PROJECT SITE IS 11.5 ACRES.
2. ESTIMATED TOTAL DISTURBED AREA IS 0.3 ACRES.
3. EXISTING SURFICIAL SOIL TYPES ARE SILTY CLAY, COBBLY SILTY CLAY, SILT CLAY LOAM, NATURAL RESOURCES CONSERVATION SERVICE (NRCS) SOIL CLASSIFICATION IS CHEHLUPUM SILT LOAM, DIXON-PHILOMATH-HAZELAIR COMPLEX, HAZELAIR SILTY CLAY LOAM SOIL, ALL HYDROLOGIC GROUP D. ERODIBILITY FOR THESE SOILS IS SLIGHT.
4. APPROXIMATE DURATION OF LAND DISTURBING ACTIVITIES IS TO BE 1 MONTH.
5. SITE IS ALREADY FULLY DEVELOPED. EXISTING VEGETATION CONSISTS OF GRASS LAWN.
6. EXISTING CONTOURS ARE SHOWN ON THE CSPM PLAN. REFER TO THE GRADING PLAN FOR PROPOSED ELEVATIONS, CONTOURS AND FINISH FLOOR ELEVATIONS.
7. REFER TO GRADING PLANS AND PROJECT SPECIFICATIONS FOR PERMANENT VEGETATION.
8. HAUL ROUTES SHALL BE AS SHOWN ON THE CONSTRUCTION SITE MANAGEMENT PLAN (CSPM), UNLESS OTHERWISE APPROVED BY THE OWNER.
9. CONTRACTOR TO PROVIDE CONSTRUCTION SCHEDULE, IF REQUIRED FOR THE PERMIT.

- CONSTRUCTION ENTRANCE/EXIT:**
1. REFER TO CONSTRUCTION SITE MANAGEMENT PLAN (CSPM) FOR CONSTRUCTION ENTRANCE AND VEHICLE WHEEL WASH AREA LOCATION(S).
 2. INSTALL GRAVEL CONSTRUCTION ENTRANCE IMMEDIATELY.
 3. IF GRAVEL PAD DOES NOT ADEQUATELY REMOVE DIRT AND MUD FROM VEHICLE WHEELS SUCH THAT MUD AND DIRT TRACKING IS EVIDENT OFF-SITE, ADDITIONAL BMPs ARE REQUIRED. ADDITIONAL BMPs MAY INCLUDE WASHING OFF WHEELS BEFORE VEHICLES LEAVE THE SITE OR OTHER CONSTRUCTION TECHNIQUES/WORK OPERATION MODIFICATIONS. WHEEL WASHING SHALL BE DONE ON AN APPROVED WHEEL WASH STRUCTURE LOCATED ON-SITE, ADJACENT TO THE GRAVEL PAD.
 4. WHEEL WASH: WHEEL WASH STRUCTURES SHALL BE ON A RELATIVELY FLAT GRADE (1 PERCENT) WITH A MINIMUM 50 FOOT RUN OUT AREA AFTER THE WASH. THE WASH ITSELF SHALL BE 18 INCHES DEEP WITH A CONSTANT MINIMUM 12-INCH DEEP WATER POOL. WASH WATER SHALL BE DRAINED THROUGH A SEDIMENT-TRAPPING STRUCTURE PRIOR TO LEAVING THE CONSTRUCTION SITE.
 5. MAINTAIN CONSTRUCTION ENTRANCE IN A CONDITION THAT WILL PREVENT TRACKING OR FLOW OF MUD OFF-SITE. APPLY ADDITIONAL GRAVEL OR WASH AND REWORK EXISTING MATERIAL, AS REQUIRED. REPAIR AND/OR CLEANOUT ANY SEDIMENT TRAP STRUCTURES.

- STANDARD NOTES FOR SEDIMENT FENCES:**
1. THE FILTER FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL CUT TO THE LENGTH OF THE BARRIER TO AVOID USE OF JOINTS. WHEN JOINTS ARE NECESSARY, FILTER CLOTH SHALL BE SPICED TOGETHER ONLY AT A SUPPORT POST, WITH A MINIMUM 6-INCH OVERLAP, AND BOTH ENDS SECURELY FASTENED TO THE POST, OR OVERLAP 2 INCH X 2 INCH POSTS AND ATTACH.
 2. THE FILTER FABRIC FENCE SHALL BE INSTALLED TO FOLLOW THE CONTOURS WHERE FEASIBLE. THE FENCE POSTS SHALL BE SPACED A MAXIMUM OF 6 FEET APART AND DRIVEN SECURELY INTO THE GROUND A MINIMUM OF 24 INCHES.
 3. THE FILTER FABRIC SHALL HAVE A MINIMUM VERTICAL BURIAL OF 6 INCHES. ALL EXCAVATED MATERIALS FROM FILTER FABRIC FENCE INSTALLATION, SHALL BE BACKFILLED AND COMPACTED, ALONG THE ENTIRE DISTURBED AREA.
 4. STANDARD OR HEAVY DUTY FILTER FABRIC FENCE SHALL HAVE MANUFACTURED STITCHED LOOPS FOR 2 INCH X 2 INCH POST INSTALLATION. STITCHED LOOPS SHALL BE INSTALLED ON THE UP HILL SIDE OF THE SLOPED AREA.
 5. FILTER FABRIC FENCES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFUL PURPOSE BUT NOT BEFORE THE UPSLOPE AREA HAS BEEN PERMANENTLY PROTECTED AND STABILIZED.
 6. FILTER FABRIC FENCES SHALL BE INSPECTED BY APPLICANT/CONTRACTOR IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.

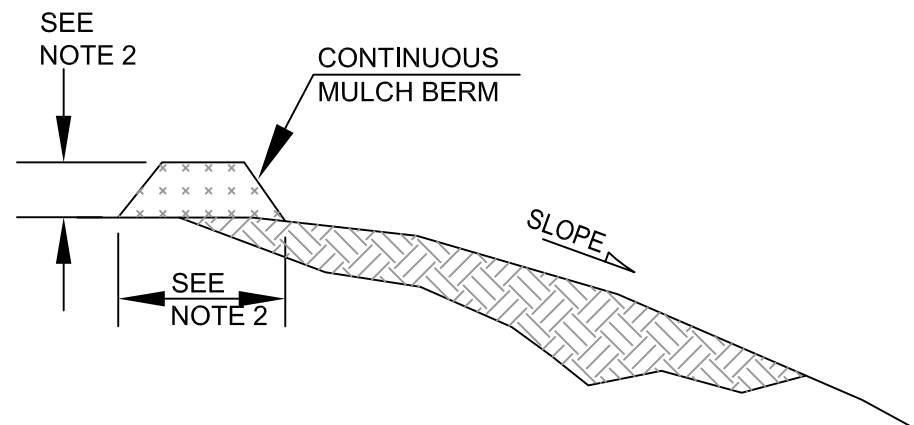
- STORM DRAIN INLET PROTECTION:**
1. AT NO TIME SHALL MORE THAN 50% OF THE STORAGE CAPACITY BE ALLOWED TO ACCUMULATE WITHIN CATCH BASINS.
 2. AT NO TIME WILL MORE THAN SIX INCHES OF SEDIMENT BE ALLOWED TO ACCUMULATE AGAINST STORM INLET PROTECTION BMPs. SEDIMENT SHALL BE REMOVED AND INLET PROTECTION BMP RESTORED AS NEEDED TO MAINTAIN THEIR SEDIMENT TRAPPING AND FILTERING CAPABILITY.
 3. INLET PROTECTION TO REMAIN IN PLACE UNTIL PERMANENT VEGETATION HAS BEEN REESTABLISHED.

- TEMPORARY STABILIZATION:**
1. PERMANENT OR TEMPORARY GRASS COVER BMPs SHALL BE FULLY ESTABLISHED BY OCTOBER 1 (SEEDED BY SEPTEMBER 1) OR OTHER COVER BMPs (MULCH, BLANKETS, ET.) ARE REQUIRED UNTIL ADEQUATE GRASS COVER IS ACHIEVED.
 2. NATIVE GRASS MIXES THAT CAN BE INCORPORATED INTO PERMANENT VEGETATIVE COVER SHALL BE USED, AS APPROVED BY THE ENGINEER.
 3. **MULCH:**
 - A. STRAW: 2 INCHES MIN. OF STRAW MUCH, AIR DRIED, FREE FROM SEEDS AND COARSE MATERIAL.
 - B. COMPOST: 3 INCHES MIN. COARSE GRADE, WELL COMPOSTED MATERIAL, FREE OF COARSE FOREIGN MATERIAL.
 - C. ORGANIC MULCH: 3 INCHES MIN. ORGANIC MULCH.

- STOCK PILES:**
1. STOCK PILES EXPOSED DURING WET WEATHER SEASON (OCTOBER 1 - APRIL 30) SHALL BE COVERED WITH POLYETHYLENE PLASTIC SHEETING, MIN. 6 MIL.
 2. COVERING SHALL BE INSTALLED EITHER OVERLAPPING SIDE-TO-SIDE OR TOP-TO-BOTTOM. SHEETING SHALL BE MAINTAINED TIGHTLY IN PLACE BY USING SAND BAGS ON ROPES WITH A MAX. 10' GRID SPACING. ALL SEAMS SHALL BE TAPED, WEIGHTED DOWN THE FULL LENGTH WITH AT LEAST A 12-INCH OVERLAP AT ALL SEAMS. NO RUNOFF SHALL RUN UNDER THE PLASTIC SHEETING.
 3. COLLECTION TRENCHES SHALL BE PLACED AT THE TOP AND AROUND THE BASE OF ANY STOCKPILE OR OTHER AREA USING PLASTIC SHEETING. THE TOP TRENCH SHALL DIRECT WATERS AWAY FROM THE SHEETING. THE BOTTOM TRENCH IS TO ROUTE AND CONTROL FLOWS FROM THE SHEETING SURFACE.
 4. PLASTIC SHEETING TO BE VISUALLY INSPECTED EVERY TWO WEEKS AND AFTER EVERY STORM FOR TEARS OR WEAK POINTS.

- CONCRETE WASH OUT:**
1. CONSTRUCT CONCRETE TRUCK WASH AREA ADJACENT TO CONSTRUCTION ENTRANCES, AS SHOWN ON THE PLAN.
 2. CONCRETE TRUCK WASH WATER TO BE DISCHARGED INTO CONTAINED WASH AREAS ONLY. DO NOT ALLOW RUNOFF FROM THIS AREA BY CONSTRUCTING A TEMPORARY PIT OR BERMED AREA LARGE ENOUGH FOR LIQUID AND SOLID WASTE. WASH OUT WASTES INTO THE TEMPORARY PIT WHERE THE CONCRETE CAN SET, BE BROKEN UP, AND THEN DISPOSED PROPERLY.
 3. CONCRETE WASH AREAS SHALL CONSIST OF A SHALLOW DEPRESSION IN THE GROUND AND BE CONSTRUCTED OF ONE OF THE FOLLOWING:
 - A. STRAW BALE BARRIER WITH PLASTIC LINER.
 - B. STACKED SAND BAGS OR BIO-BAGS AS A BARRIER WITH PLASTIC LINER.
 - C. PORTABLE CONTAINMENT POND.
 4. TRUCK MOUNTED RECYCLING SYSTEM ECO-PAN OR RETURNING DIRTY TRUCKS BACK TO PLANT MAY BE USED INSTEAD OF THE WASHOUT AREA.
 5. LOCATE WASHOUT AREA AT LEAST 50 FEET FROM STORM DRAINS, OPEN DITCHES, OR WATER BODIES.

- CONSTRUCTION SEQUENCE:**
1. HOLD A PRE-CONSTRUCTION MEETING.
 2. FLAG OR FENCE CONSTRUCTION LIMITS (AS SHOWN ON APPROVED PLANS).
 3. INSTALL CATCH BASIN/INLET PROTECTION.
 4. INSTALL PERIMETER PROTECTION (SEDIMENT FENCE, MULCH BERM, WATTLE, ETC.)
 5. CALL TO SCHEDULE AN ON-SITE INSPECTION OF ALL EROSION MEASURES AFTER INSTALLATION.
 6. INSTALL CONSTRUCTION ENTRANCE(S).
 7. CONSTRUCT SEDIMENT PONDS AND TRAPS.
 8. GRADE AND STABILIZE PARKING LOT.
 9. MAINTAIN EROSION CONTROL MEASURES IN ACCORDANCE WITH CITY OF EUGENE STANDARDS AND MANUFACTURER'S RECOMMENDATIONS.
 10. UPDATE ESC MEASURES TO HANDLE ANY MAJOR CHANGES IN THE SITE CONDITIONS.
 11. COVER ALL AREAS THAT WILL BE UNWORKED FOR MORE THAN SEVEN DAYS DURING THE DRY SEASON OR TWO DAYS DURING THE WET SEASON WITH STRAW, WOOD FIBER MULCH, COMPOST, PLASTIC SHEETING, OR EQUIVALENT.
 12. STABILIZE ALL AREAS WITHIN SEVEN DAYS OF REACHING FINAL GRADE.
 13. SEED OR SOD ANY AREAS TO REMAIN UNWORKED FOR MORE THAN 30 DAYS.
 14. UPON COMPLETION OF THE PROJECT, STABILIZE ALL DISTURBED AREAS AND REMOVE BMPs IF APPROPRIATE.



- NOTES:**
1. PLACE BERM PARALLEL TO THE BASE OF THE SLOPE, OR AROUND THE PERIMETER OF AFFECTED AREAS.
 2. SLOPES <5%: CONSTRUCT 1' TO 1.5' HIGH X 2' TO 3' WIDE BERM. SLOPES >5%: CONSTRUCT 1.5' TO 2' HIGH X 3' TO 4' WIDE BERM (2.5 FT MIN BERM WIDTH AT TOP).
 3. BERM TO BE CONSTRUCTED OF APPROVED COMPOST: DECOMPOSED WEED-FREE, OF ORGANIC SOURCE.
 4. WHERE WARRANTED, UTILIZE A PNEUMATIC BLOWER FOR APPLICATION, CAPABLE OF UNIFORMLY APPLYING MATERIAL WITH PARTICLES UP TO 3" TO 4" IN LENGTH BY 3/4" IN WIDTH, AND 60% OR LESS MOISTURE CONTENT.
 5. COMPOST SHALL BE DERIVED FROM A WIDE VARIETY OF ORGANIC SOURCES, HAVE NO OBJECTIONABLE ODORS WITH LESS THAN 1% MAN-MADE FOREIGN MATTER. PARTICLE SIZE SHOULD CARRY WITHIN A MAXIMUM LENGTH OF 3". MOISTURE CONTENT SHALL BE 33% TO 55%, PH SHALL BE 5.5 TO 8.0. COMPOST SHALL BE WELL COMPOSTED AND CONTAIN NO SUBSTANCES TOXIC TO PLANTS.

4 BIO BERM
NO SCALE

CONSTRUCTION SITE MANAGEMENT PLAN (CSPM) GENERAL NOTES

1. PRIOR TO ANY GROUND DISTURBANCE ON THE SITE ONE INSPECTION WITH ENGINEER IS REQUIRED.
2. THE CONSTRUCTION SITE MANAGEMENT PLAN DOES NOT AUTHORIZE CONSTRUCTION ACTIVITIES. GRADING, BUILDING AND OTHER PERMITS MAY BE REQUIRED. ALL OTHER NECESSARY APPROVALS SHALL BE OBTAINED.
3. ISSUANCE OF AN EROSION PREVENTION PERMIT APPROVES PROTECTION MEASURES, NOT CONSTRUCTION OR GROUND DISTURBING ACTIVITIES. IT DOES NOT RELIEVE THE PERMIT HOLDER AND/OR THE CONTRACTOR FROM OTHER PERMITTING REQUIREMENTS.
4. THE CONSTRUCTION SITE MANAGEMENT PLAN DOES NOT AUTHORIZE CONSTRUCTION ACTIVITIES. GRADING, BUILDING AND OTHER PERMITS MAY BE REQUIRED. ALL OTHER NECESSARY APPROVALS SHALL BE OBTAINED.
5. EROSION AND SEDIMENT CONTROL MEASURES, AND OTHER NATURAL RESOURCE PROTECTION FENCING AND BARRIERS, SHOWN ON THE CSPM ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING CONSTRUCTION MEASURES SHALL BE UPGRADED, AS NEEDED OR AS DIRECTED BY THE ENGINEER.
6. IMPLEMENTATION OF THE CSPM, INCLUDING CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF EROSION AND SEDIMENT CONTROL MEASURES AND PROTECTION FENCING, IS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL ALL CONSTRUCTION IS COMPLETED AND VEGETATION/LANDSCAPING IS ESTABLISHED AND APPROVED.
7. BOUNDARIES OF THE CLEARING AND GRADING LIMITS SHOWN ON THIS PLAN SHALL BE CLEARLY FLAGGED IN THE FIELD PRIOR TO CONSTRUCTION. DURING CONSTRUCTION, NO DISTURBANCE BEYOND THE FLAGGED CLEARING AND GRADING LIMITS SHALL BE PERMITTED. THE FLAGGING SHALL BE MAINTAINED BY THE CONTRACTOR FOR THE DURATION OF CONSTRUCTION. IN ADDITION, WETLAND AND RIPARIAN AREAS SHALL BE IDENTIFIED AND PROTECTED WITH APPROPRIATE FENCING AS NOTED ON CSPM PRIOR TO CONSTRUCTION AND SHALL NOT BE DISTURBED UNLESS THE PROPER PERMITS ARE OBTAINED.
8. EROSION AND SEDIMENT CONTROL MEASURES SHOWN ON THIS CSPM MUST BE CONSTRUCTED IN CONJUNCTION WITH ALL CLEARING AND GRADING ACTIVITIES, IN SUCH A MANNER AS TO ENSURE THAT SEDIMENT AND SEDIMENT LADEN WATER DOES NOT ENTER THE STORMWATER SYSTEM, ROADWAYS, ADJACENT PROPERTY OR VIOLATE APPLICABLE WATER QUALITY STANDARDS. WHEN DESIGNING AND IMPLEMENTING MEASURES, THE PERMIT HOLDER AND/OR THE CONTRACTOR SHALL CONSIDER THE SEASONAL VARIATION OF RAINFALL, TEMPERATURE, AND OTHER CLIMATIC FACTORS RELATIVE TO THE TIMING OF LAND DISTURBANCE ACTIVITIES.
9. EROSION AND SEDIMENT CONTROL MEASURES ON ACTIVE SITES SHALL BE INSPECTED AND MAINTAINED DAILY AND WITHIN 24 HOURS AFTER ANY STORM EVENT GREATER THAN 0.5 INCHES OF RAIN PER 24 HOUR PERIOD. ANY REQUIRED REPAIRS OR ADJUSTMENTS SHALL BE MADE IMMEDIATELY. THE EROSION AND SEDIMENT CONTROL MEASURES ON INACTIVE SITES SHALL BE INSPECTED A MINIMUM OF ONCE EVERY MONTH AND/OR WITHIN 48 HOURS FOLLOWING STORM EVENTS. ADDITIONALLY,
10. DURING THE WET WEATHER SEASON (OCTOBER 15 TO APRIL 30), ALL EXPOSED SOIL AND STOCKPILE AREAS SHALL BE COVERED, OR OTHERWISE PROTECTED BY A FACILITY (OR COMBINATION OF FACILITIES) THAT RESULT IN NO STORMWATER RUNOFF LEAVING THE SITE DURING A 5-YEAR STORM EVENT. FOR DEVELOPMENT SITES OVER 40 ACRES, THE DESIGN STORM SHALL BE A 10-YEAR STORM EVENT CONSISTENT WITH AN APPROVED CSPM.
11. ALL ADJACENT PROPERTIES, WATER FEATURES, AND RELATED NATURAL RESOURCES ARE TO BE KEPT FREE OF DEPOSITS OR DISCHARGES OF SOIL, SEDIMENT OR CONSTRUCTION-RELATED MATERIAL FROM THE CONSTRUCTION SITE.
12. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE PROTECTED FROM DAMAGE AT ALL TIMES. EROSION CONTROL MEASURES SHALL REMAIN IN PLACE UNTIL VEGETATION HAS BEEN ESTABLISHED AND THE SITE IS PERMANENTLY STABILIZED. ANY MEASURES THAT ARE DAMAGED OR DESTROYED SHALL BE REPAIRED OR REPLACED IMMEDIATELY.
13. STABILIZE ALL DISTURBED AREAS WITHIN 50 FEET OF WATERWAYS, WETLANDS OR OTHER SENSITIVE AREAS WITHIN 7 DAYS OF EXPOSURE.
14. STREETS ADJACENT TO CONSTRUCTION ENTRANCES AND ALONG HAUL ROUTES SHALL BE SWEEP AS NEEDED OR WHEN DIRECTED BY THE ENGINEER TO ENSURE PUBLIC RIGHTS-OF-WAY ARE KEPT CLEAN AND FREE OF DEBRIS.
15. WHEN TRUCKING SATURATED SOILS TO OR FROM THE SITE, EITHER WATER-TIGHT TRUCKS SHALL BE USED OR LOADS SHALL BE DRAINED PRIOR TO TRANSPORT UNTIL DRIPPING HAS BEEN REDUCED TO NO MORE THAN ONE GALLON PER HOUR. SEDIMENT LADEN WATER WILL NOT BE ALLOWED TO ENTER THE STORMWATER SYSTEM.
16. EXTRACTED GROUND WATER FROM EXCAVATED TRENCHES SHALL BE DISPOSED OF IN A SUITABLE MANNER WITHOUT DISCHARGING SEDIMENT TO ADJACENT PROPERTIES, THE CITY'S STORMWATER SYSTEM, WATER FEATURES, OR RELATED NATURAL RESOURCES. DEWATERING SYSTEMS SHALL BE DESIGNED AND OPERATED SO AS TO PREVENT REMOVAL OF THE NATURAL SOILS AND SO THAT THE GROUNDWATER LEVEL OUTSIDE THE EXCAVATION IS NOT REDUCED TO THE EXTENT THAT WOULD DAMAGE OR ENDANGER ADJACENT STRUCTURES OR PROPERTY. APPROVAL OF THE DEWATERING SYSTEM DOES NOT GUARANTEE THAT IT WILL MEET THE OUTCOMES OR BE ACCEPTABLE FOR USE IN ALL SITUATIONS. MODIFICATIONS TO THE SYSTEM WILL BE REQUIRED IF THE OUTCOMES CANNOT BE MET. AT NO TIME WILL SEDIMENT LADEN WATER BE ALLOWED TO LEAVE THE CONSTRUCTION SITE.
17. A SUPPLY OF MATERIALS NECESSARY TO MEET THE OUTCOMES AND IMPLEMENT THE CSPM OR OTHER EROSION PRACTICES UNDER ALL WEATHER CONDITIONS SHALL BE MAINTAINED AT ALL TIMES ON THE CONSTRUCTION SITE.
18. NO HAZARDOUS SUBSTANCES, SUCH AS PAINTS, THINNERS, FUELS AND OTHER CHEMICALS SHALL BE RELEASED ONTO THE SITE, ADJACENT PROPERTIES, OR INTO WATER FEATURES, THE COUNTY'S STORMWATER SYSTEM, OR RELATED NATURAL RESOURCES.
19. NO DISCHARGE INTO THE COUNTY'S STORMWATER SYSTEM OR RELATED NATURAL RESOURCES OF CONSTRUCTION RELATED CONTAMINANTS RESULTING FROM ACTIVITIES SUCH AS, BUT NOT LIMITED TO, CONCRETE SAWING, CLEANING OR WASHING OF EQUIPMENT, TOOLS, OR VEHICLES, SHALL OCCUR.
20. ALL WORK PERFORMED BY UTILITY COMPANIES FOR THIS PROJECT, INCLUDING PLACEMENT OF APPROPRIATE EROSION AND SEDIMENT CONTROL MEASURES, FINISHED GRADING, SEEDING, MULCHING AND CLEAN UP IS GOVERNED BY THE CONDITIONS AND REQUIREMENTS OF THIS CSPM. COMPLIANCE WITH THESE REQUIREMENTS IS THE RESPONSIBILITY OF THE CONTRACTOR.



PROJECT TITLE

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

TWIN OAKS ELEMENTARY SCHOOL
SOUTH PARKING LOT UPGRADE
85916 BAILEY HILL ROAD, EUGENE, OR 97405

REVISIONS		
SYM	DATE	REFERENCE
△		

PROJECT:	141603
DRAWN:	BJR
CHECKED:	BJR
DATE:	05/08/2015
DRAWING TITLE	
CONSTRUCTION SITE MANAGEMENT NOTES & DETAILS	
DRAWING NUMBER	

C3.1



EXPIRATION DATE: 12/31/2016

PROJECT TITLE

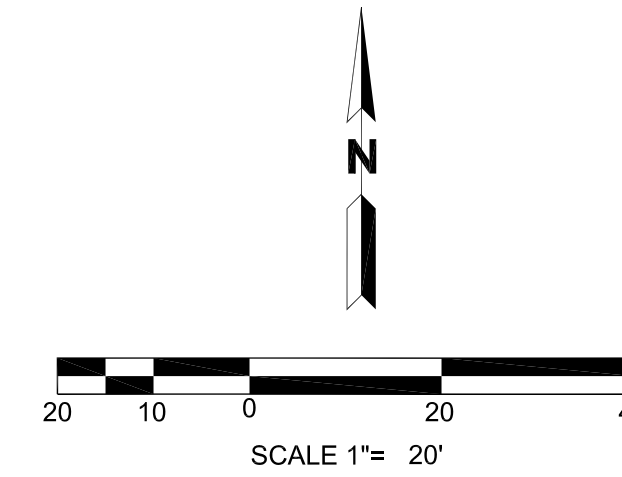


Facilities Management
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**TWIN OAKS ELEMENTARY SCHOOL
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SYM	DATE	REFERENCE
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PROJECT: 141603		
DRAWN: BJR		
CHECKED: BJR		
DATE: 05/08/2015		
DRAWING TITLE		
GRADING PLAN		
DRAWING NUMBER		

C5.0



SHEET NOTES:

1. SEE SHEET C1.0 FOR GENERAL NOTES AND LEGEND.
2. REFER TO SHEET C4.0 HORIZONTAL CONTROL PLAN, FOR SITE LAYOUT AND DIMENSIONS.
3. FS = TC, TP OR TW UNLESS NOTED OTHERWISE.
4. TW = TC UNLESS NOTED OTHERWISE.
5. TC AND TW = 6" ABOVE TP UNLESS NOTED OTHERWISE
6. REFER TO SHEET C7.0, PAVING PLAN, FOR EXISTING PAVEMENT SAW CUT REQUIREMENTS.
7. CONTROL POINTS WERE SET BY SURVEYOR. SEE SHEET C1.0 GENERAL NOTES 1 AND 2.
8. GRADE EVENLY BETWEEN SPOT ELEVATIONS SHOWN TO ACHIEVE POSITIVE DRAINAGE.
9. MATCH ELEVATIONS AT EDGES OF EX ADJACENT FLAT CONCRETE AND AC SURFACES.

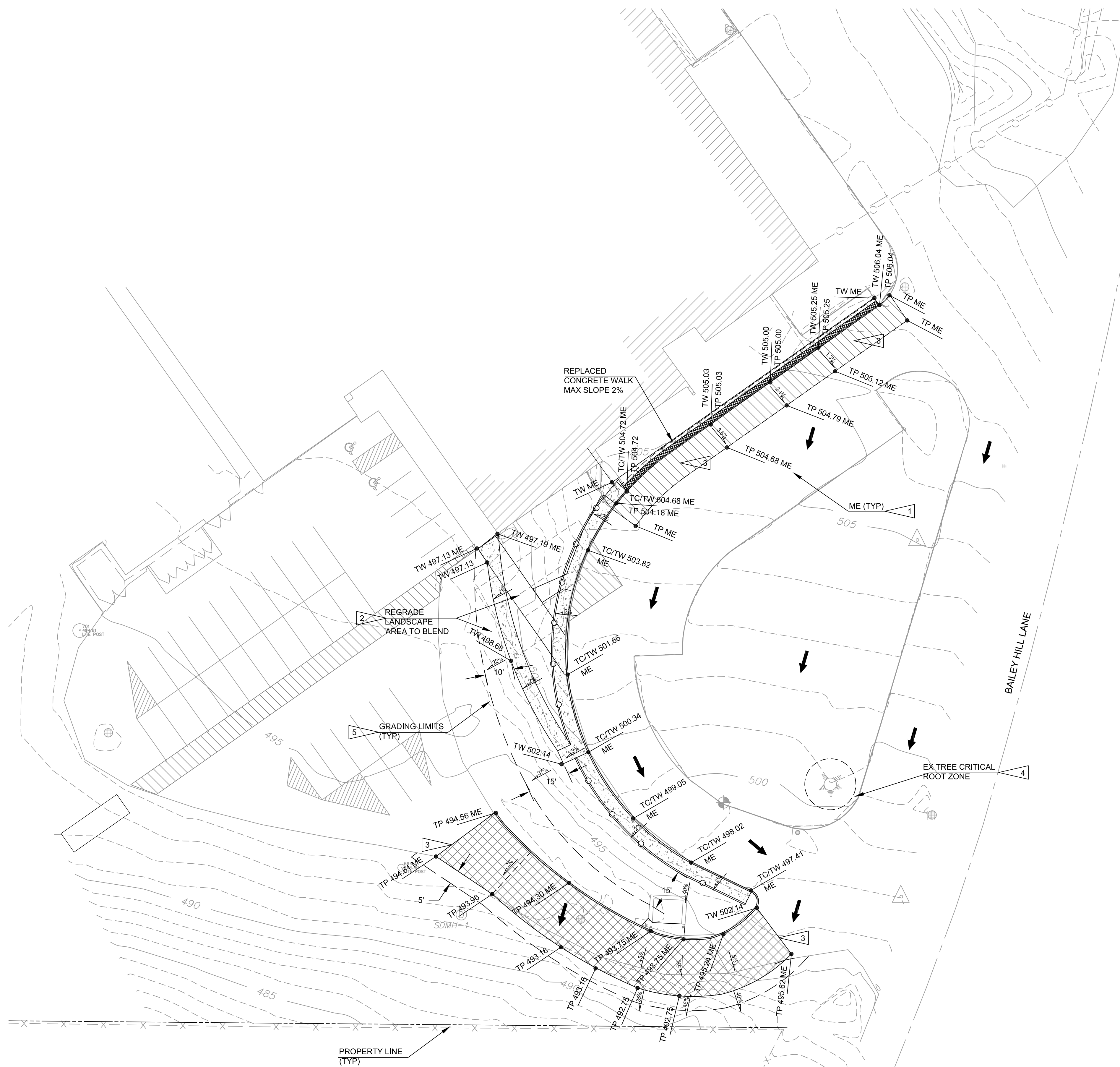
CONSTRUCTION NOTES:

1. FIELD VERIFY EXISTING ELEVATIONS WHERE THE NEW GRADING IS TO MATCH EXISTING, AS INDICATED ON THE GRADING PLAN BY THE "ME" DESIGNATION (I.E.; TP 416.42 ME). PROVIDE FIELD VERIFIED ELEVATIONS (TO CONFIRM THE DESIGN) FAR ENOUGH IN ADVANCE OF WORK TO MAKE NECESSARY DESIGN MODIFICATIONS WITHOUT DELAYING WORK.
2. TRANSITION GRADE TO GRADING LIMITS TO ACHIEVE POSITIVE DRAINAGE THROUGH ALL DISTURBED AREAS.
3. BLEND TO MATCH EVENLY AT SAWCUT LINE, GRADE EVENLY TO ACHIEVE POSITIVE DRAINAGE.
4. NOT ALL TREES SHOWN ON TOPO SURVEY AND DRAWINGS. CRITICAL ROOT ZONE IS 18 X TREE DBH (DIAMETER AT BRESTH HEIGHT). TREE PROTECTION NOTES APPLY TO ALL EX TREES TO REMAIN. LESS THAN 30% OF THE EX TREE CRITICAL ROOT ZONE (CRZ) TO BE IMPACTED. REFER TO TREE PROTECTION NOTES FOR WORK LIMITATIONS WITHIN THE CRZ.
5. CONTRACTOR TO CONFINED CONSTRUCTION ACTIVITIES TO WITHIN GRADING LIMITS. ANY DISTURBANCE BEYOND THE GRADING LIMITS IS TO BE RESTORED BY THE CONTRACTOR AT CONTRACTORS EXPENSE.

GRADING LEGEND	
	GRADING LIMITS
	GRADE BREAK
	RIDGE BREAK
	SPOT ELEVATION
	PAVEMENT SLOPE DIRECTION
	FINISH SURFACE
	MATCH EXISTING
	TOP OF CURB
	TOP OF PAVEMENT
	TOP OF WALK

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 BACK FILL AREAS WHERE POSSIBLE. IF RELOCATION OF ROOTS IS NOT PRACTICAL, ROOTS MAY BE CUT IS 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 BACK FILL. 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.





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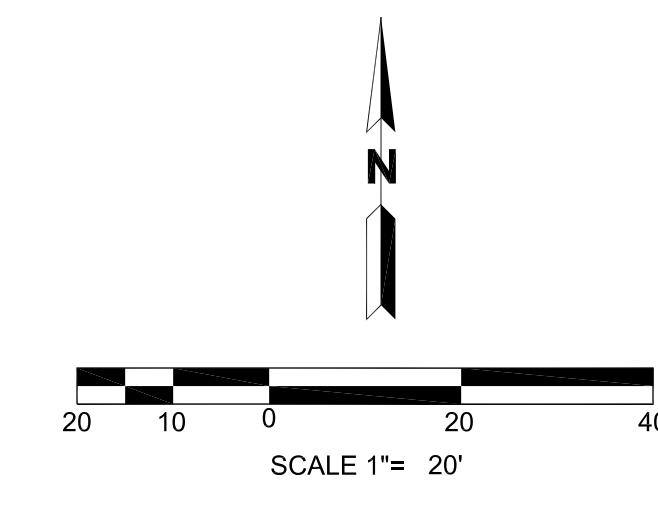
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REVISIONS		
SYM	DATE	REFERENCE

PROJECT: 141603
DRAWN: BJR
CHECKED: BJR
DATE: 05/08/2015
DRAWING TITLE

PAVING PLAN
DRAWING NUMBER

C7.0

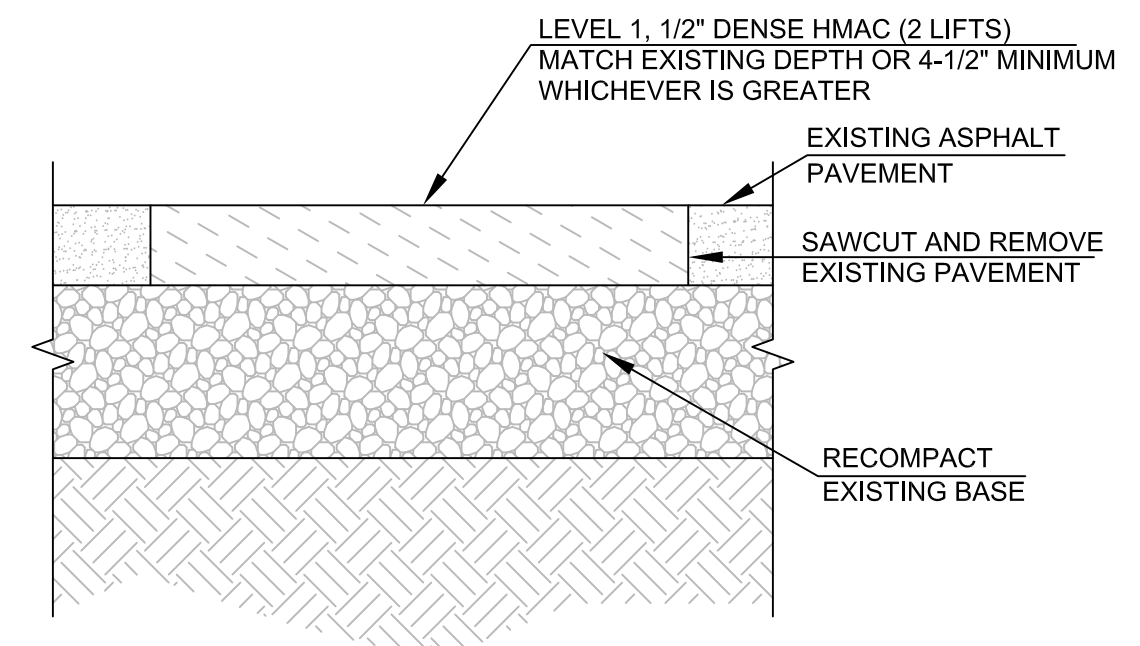
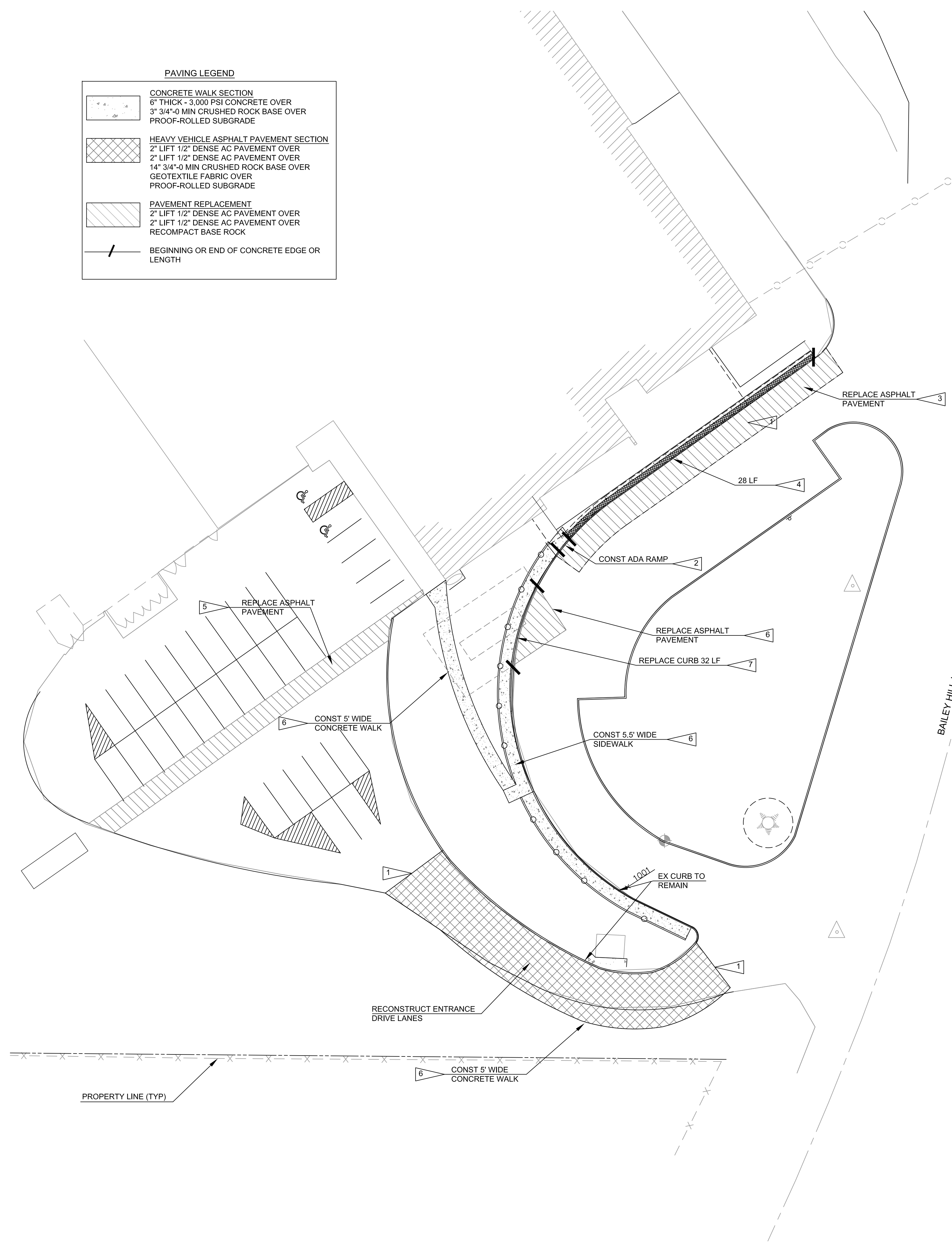


- SHEET NOTES:**
- SEE COVER SHEET, C1.0 FOR GENERAL NOTES AND LEGEND.
 - REFER TO SHEET C4.0, HORIZONTAL CONTROL PLAN, FOR LAYOUT.
 - ALL JOINTS TO BE TOOLED CONTRACTION JOINTS, UNLESS NOTED OTHERWISE.
 - CURB QUANTITIES SHOWN ARE FOR THE PURPOSE OF IDENTIFYING CURB TYPE. ACTUAL QUANTITIES MAY VARY. CONTRACTOR TO PROVIDE QUANTITIES REQUIRED FOR LAYOUT SHOWN.
 - APPLY TACK COAT TO ALL CONCRETE EDGES PRIOR TO PLACING ASPHALT
 - REFER TO C2.0, SITE PLAN, FOR PAVEMENT STRIPING.
 - REMOVE AND REPLACE EX ASPHALT AS REQUIRED FOR NEW CONSTRUCTION. SAWCUT LINE SHOWN AS APPROXIMATE. REMOVE ADDITIONAL ASPHALT, AS REQUIRED, TO ACCOMPLISH SITE WORK. ADDITIONAL ASPHALT REPLACEMENT WILL BE REQUIRED FOR ANY AREAS DAMAGED DURING CONSTRUCTION. SAWCUT PER DETAIL 3/C1.1.

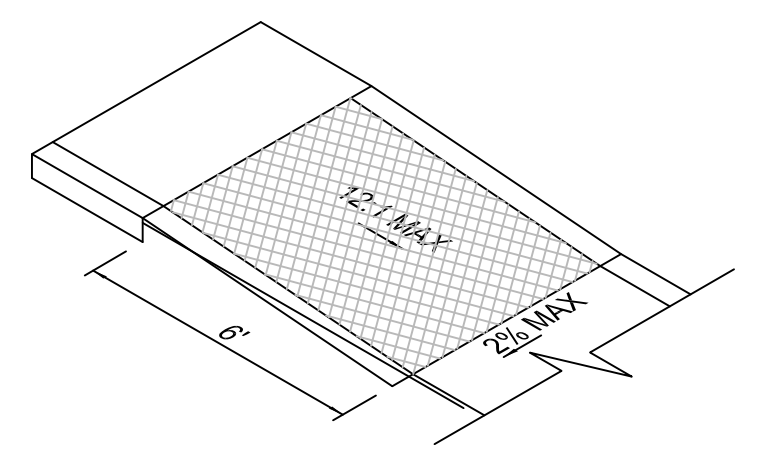
- CONSTRUCTION NOTES:**
- SAWCUT EX ASPHALT AS REQUIRED FOR NEW CONSTRUCTION. REFER TO DETAIL 3/C1.0.
 - CONST ADA RAMP PER DETAIL 2/C7.0. REFER TO GRADING PLAN FOR RAMP SLOPES. REPLACE EXISTING FULL DEPTH CURB. DETAIL 3/C1.0. ALONG RAMP EDGE TO MATCH RAMP GRADE.
 - REPLACE PAVEMENT PER DETAIL 1/C7.0. BLEND TO ACHIEVE FLUSH SURFACE TRANSITION FROM CONCRETE WALK TO ASPHALT PAVEMENT.
 - CONST 3' WIDE THICKENED EDGE WALK PER DETAIL 2/C1.0. 2' WIDE STAMPED MESH ALONG ENTIRE OUTER EDGE OF REPLACED CONCRETE PAVEMENT FOR TACTILE WARNING.
 - UTILITY TRENCH INSTALLATION BY OTHERS, NIC. RE-GRADE BASE ROCK AND COMPACT TO ACHIEVE REQUIRED PAVEMENT SECTION PRIOR TO PAVING. DETAIL 1/C7.0
 - UNDERGROUND HEATING OIL TANK REMOVED BY OTHER, NIC. GRAVEL BACKFILL WAS PLACED UNDER NEW CONCRETE WALK AND REMOVED PAVEMENT AREAS. RE-GRADE BASE ROCK AND COMPACT TO ACHIEVE REQUIRED PAVEMENT/CONCRETE SECTION PRIOR TO PAVING AND PLACING CONCRETE. DETAIL 1/C7.0
 - CONST FULL DEPTH CURB PER DETAIL 3/C1.0.
 - CONST FLUSH ASPHALT EDGE PER DETAIL 3/C7.0.

PAVING LEGEND

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

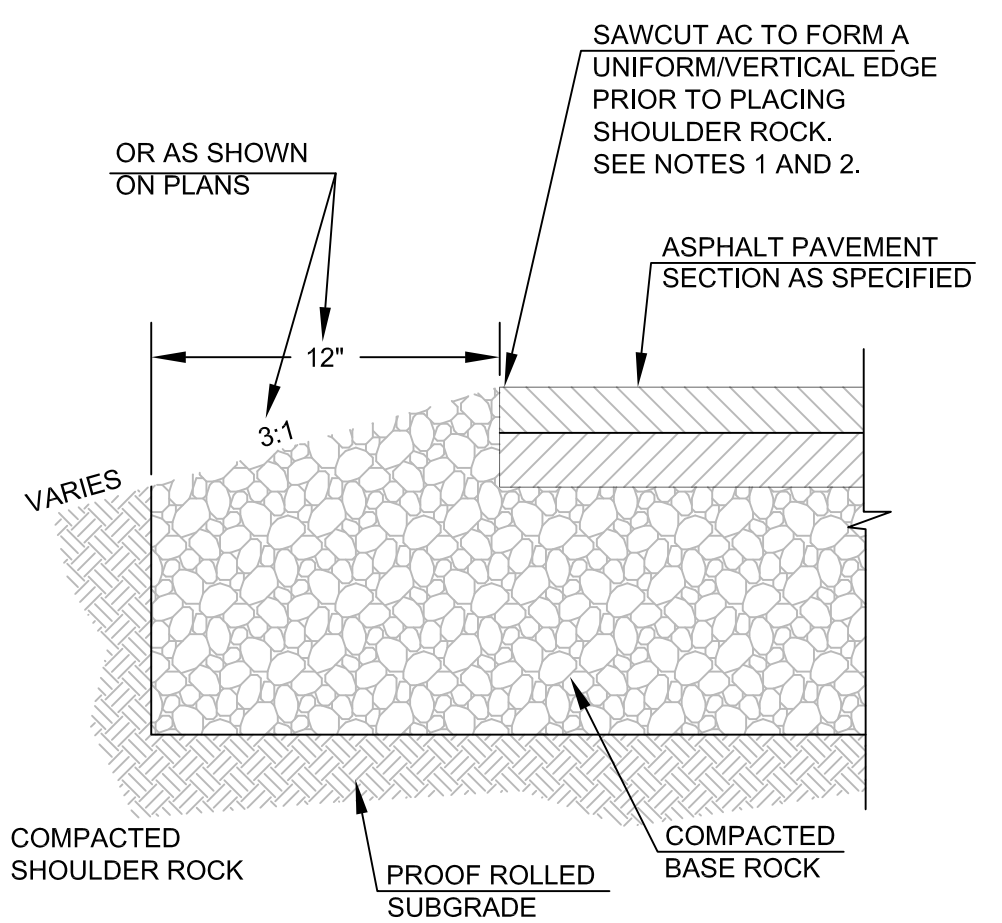


1 PAVEMENT REPLACEMENT - HEAVY SECTION
NO SCALE



- NOTES:**
- CONCRETE SHALL BE 3000 PSI, SLUMP RANGE 3" TO 5".
 - RAMP TEXTURING IS TO BE DONE WITH AN EXPANDED METAL GRATE PLACED AND REMOVED FROM WET CONCRETE TO LEAVE A DIAMOND PATTERN. EACH DIAMOND SHALL HAVE THE LONG SECTION AXIS ORIENTED PERPENDICULAR TO THE CURB.

2 CURB RAMP - PARALLEL
NO SCALE



- NOTES:**
- INSTALL PAVEMENT SECTION BEYOND EDGE OF PAVEMENT AREA TO ALLOW FOR TRIMMING OF AC EDGE PRIOR TO PLACEMENT OF SHOULDER ROCK.
 - TRIMMING OF EDGE OF AC PAVEMENT INSTALLED WITH A CLEAN, EVEN EDGE MAY NOT BE REQUIRED, AS APPROVED BY ENGINEER.

3 FLUSH ASPHALT EDGE
NO SCALE