

EXISTING CONDITIONS/DEMOLITION GENERAL NOTES:

1. THE CONTRACTOR SHALL BE REQUIRED TO VISIT SITE PRIOR TO PREBID MEETING TO FAMILIARIZE THEMSELVES WITH DEMOLITION, GRADING, ETC., AND IMPROVEMENTS TO REMAIN.
2. CONTRACTOR SHALL BE RESPONSIBLE TO REMOVE ANY AND ALL ITEMS NOT OTHERWISE LISTED HEREIN THAT CONFLICT WITH THE CONSTRUCTION OF THE PROJECT. CONTRACTOR SHALL CONTACT ENGINEER OF RECORD IMMEDIATELY TO DETERMINE IF ANY ITEMS NOT SHOWN ON THE PLANS MUST BE REMOVED. FAILURE TO DO SO DOES NOT RELIEVE CONTRACTOR OF RESPONSIBILITY AND COST FOR REMOVING ITEMS REQUIRED.
3. CONTRACTOR IS RESPONSIBLE FOR REVIEWING (IF APPLICABLE) ALL KNOWN ENVIRONMENTAL INVESTIGATION STUDIES AND REPORTS PRIOR TO BIDDING. REPORTS ARE INCLUDED IN THE PROJECTS SPECIFICATIONS. CONTRACTOR TO COORDINATE WITH THE ENVIRONMENTAL ENGINEER ON EXACT AREAS OF CONTAMINATION, IF ANY.
4. THE CONTRACTOR SHALL TAKE EFFECTIVE ACTION TO PREVENT THE FORMATION OF ANY AIRBORNE DUST NUISANCE, AND SHALL BE RESPONSIBLE FOR ANY DAMAGE RESULTING FROM FAILURE TO FOLLOW THE EROSION & SEDIMENT CONTROL GUIDELINES.
5. ALL EXISTING REMAINING UTILITIES AND REMAINING IMPROVEMENTS THAT BECOME DAMAGED DURING CONSTRUCTION SHALL BE COMPLETELY RESTORED TO THE SATISFACTION OF THE LOCAL AGENCY AND THE ENGINEER AT THE CONTRACTOR'S SOLE EXPENSE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DOCUMENT PRIOR DAMAGES.
6. DO NOT CUT ANY ROOTS OVER 3". ROOTS THAT ARE CUT SHALL RESULT IN A FLAT SURFACE WITH ADJACENT BARK FIRMLY ATTACHED. DO NOT TEAR OR CRUSH ROOTS.
7. ALL BASE ESC MEASURES (INLET PROTECTION, PERIMETER SEDIMENT CONTROL, GRAVEL CONSTRUCTION ENTRANCES, ETC.) MUST BE IN PLACE, FUNCTIONAL, AND APPROVED IN AN INITIAL INSPECTION, PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES.
8. SEDIMENT BARRIERS APPROVED FOR USE INCLUDE SEDIMENT FENCE, BERMS CONSTRUCTED OUT OF MULCH, CHIPPINGS, OR OTHER SUITABLE MATERIAL, STRAW WATTLES, OR OTHER APPROVED MATERIALS.
9. SENSITIVE RESOURCES INCLUDING, BUT NOT LIMITED TO, TREES, WETLANDS, AND RIPARIAN PROTECTION AREAS SHALL BE CLEARLY DELINEATED WITH ORANGE CONSTRUCTION FENCING OR CHAIN LINK FENCING IN A MANNER THAT IS CLEARLY VISIBLE TO ANYONE IN THE AREA. NO ACTIVITIES ARE PERMITTED TO OCCUR BEYOND THE CONSTRUCTION BARRIER.
10. CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES INCLUDING, BUT NOT LIMITED TO, STREET SWEEPING, AND VACUUMING, MAY BE REQUIRED TO INSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.
11. RUN-ON AND RUN-OFF CONTROLS SHALL BE IN PLACE AND FUNCTIONING PRIOR TO BEGINNING SUBSTANTIAL CONSTRUCTION ACTIVITIES. RUN-ON AND RUN-OFF CONTROL MEASURES INCLUDE: SLOPE DRAINS (WITH OUTLET PROTECTION), CHECK DAMS, SURFACE ROUGHENING, AND BANK STABILIZATION.

LEGEND

[Hatched Area] INFILTRATION FACILITY PROTECTION AREA (DO NOT COMPACT NATIVE SOILS AT FACILITY SUBGRADE ELEVATION)

(X) **EXISTING CONDITIONS/DEMOLITION KEYNOTES:**

1. PRESERVE AND PROTECT EXISTING ASPHALT CONCRETE PAVEMENT AREA.
2. PRESERVE AND PROTECT EXISTING CONCRETE CURB.
3. PRESERVE AND PROTECT EXISTING STORMWATER LINE.
4. PRESERVE AND PROTECT EXISTING STORMWATER CATCH BASIN.
5. PRESERVE AND PROTECT EXISTING UNDERGROUND POWER LINE AND CONDUITS.
6. PRESERVE AND PROTECT EXISTING LIGHT POST AND BASE.
7. PRESERVE AND PROTECT EXISTING ELECTRICAL STRUCTURE AND BOLLARDS.
8. REMOVE EXISTING STORMWATER CATCH BASIN. PRESERVE CONNECTING EXISTING STORMWATER LINE FOR RE-CONNECTION.
9. COORDINATE REMOVAL OF EXISTING RETAINING WALL AND GUARDRAIL AT PROPOSED RAMP LOCATION.
10. COORDINATE REMOVAL OF EXISTING CONCRETE DOCK AT PROPOSED RAMP LOCATION WITH THE GRADING DETAIL AND LAYOUT PLAN WITHIN THE CIVIL PLAN SET.
11. PRESERVE AND PROTECT EXISTING STORMWATER CLEANOUT WITHIN PROPOSED RAMP AREA. CLEANOUT SHALL BE RAISED TO MATCH FINISH GRADE.
12. REMOVE EXISTING BASKETBALL HOOP AND POLE. PRESERVE AND RETURN TO OWNER. FILL IN POLE HOLE WITH HMAC OR WMAC PATCH. COLD PATCHING IS NOT ALLOWED.
13. PRESERVE AND PROTECT NEW INFILTRATION FACILITY AREA. DO NOT COMPACT SOILS, HANDLE HEAVY MACHINERY, OR USE FOR STORAGE WITHIN THE BOUNDARY OF THE FACILITY.
14. SAWCUT 9" MIN., 12" MAX. FROM FACE OF NEW RAMP WALL FOR FOOTING.
15. PRESERVE AND PROTECT EXISTING TREES AND SHRUBS AT TREE LINE. SEE EROSION CONTROL PLAN, SHEET ESC9.00 FOR TREE PROTECTION REQUIREMENTS.

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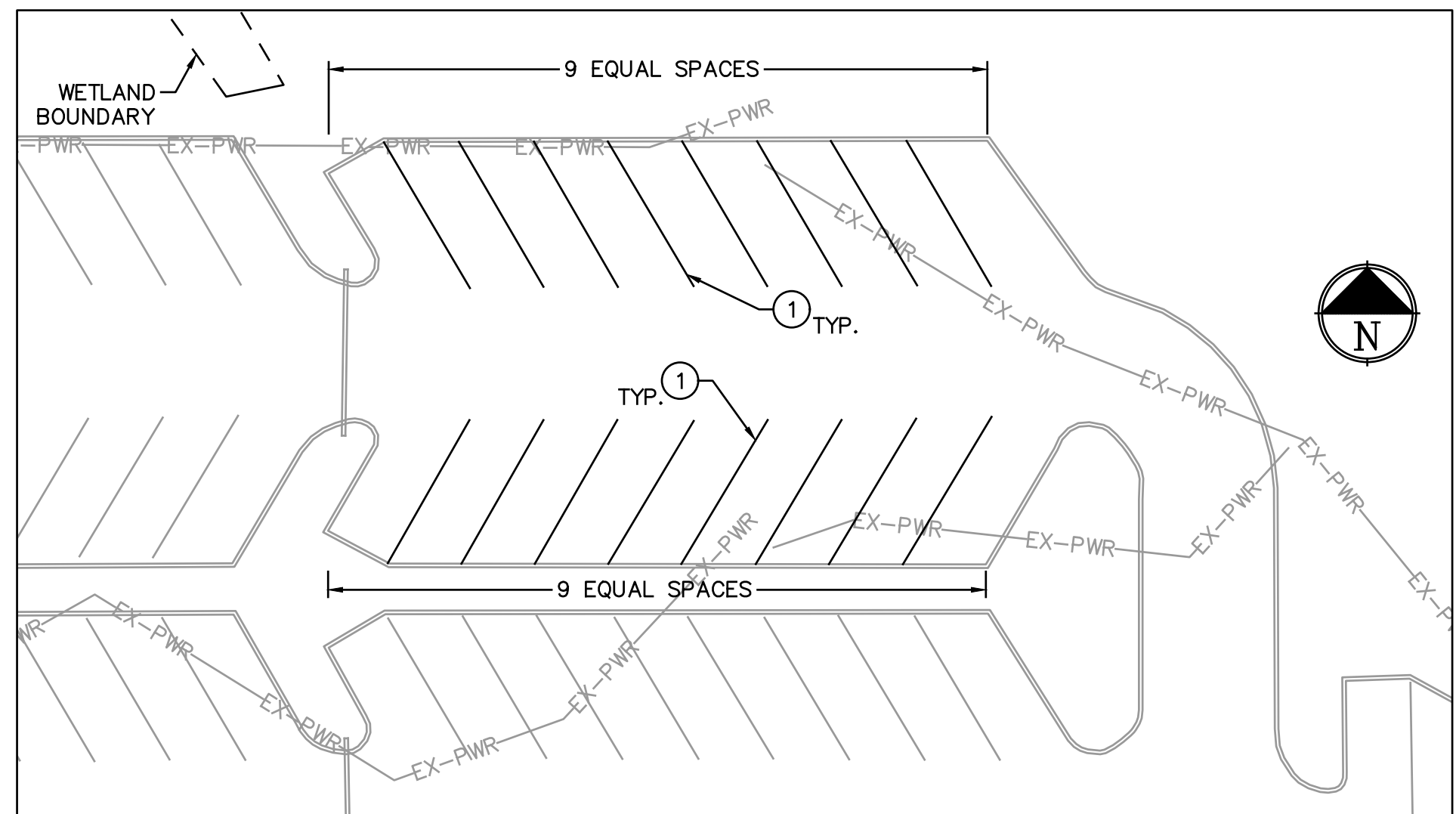
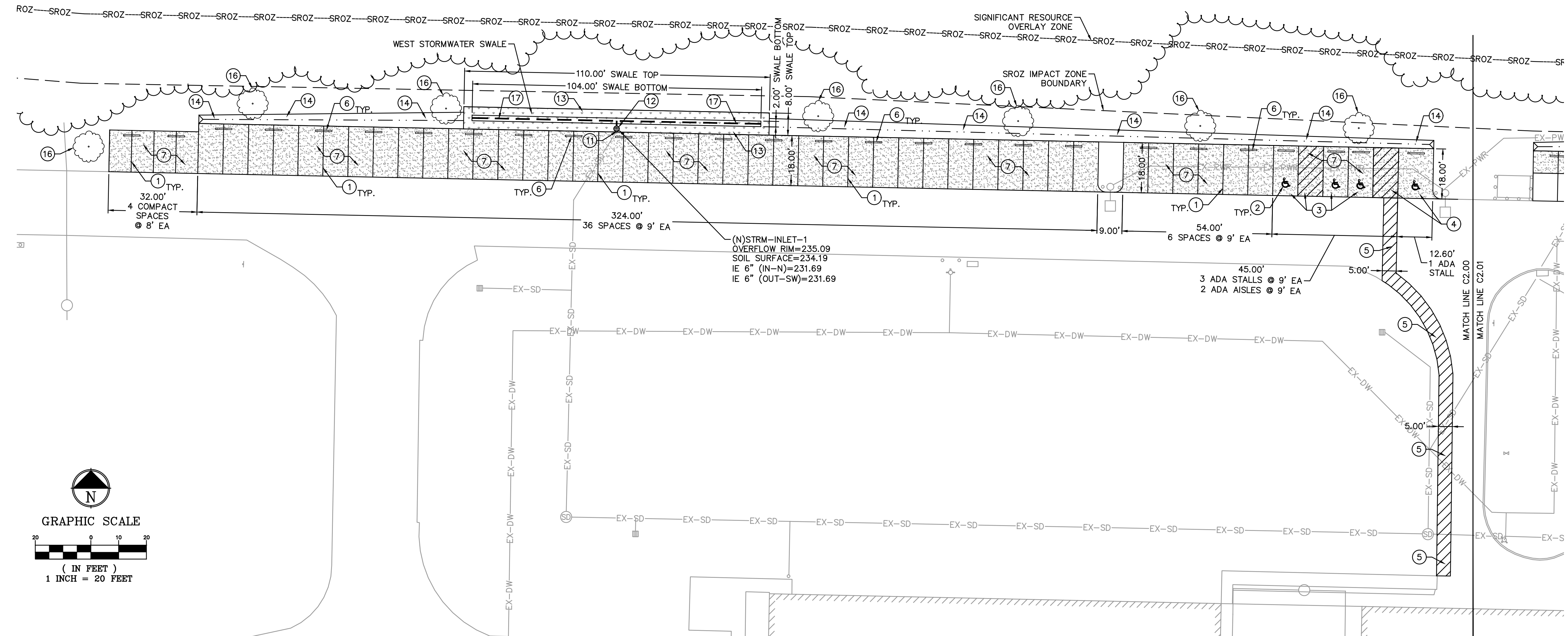
APPROVALS:
 Job No.: 21032-0041
 Proj. Manager: R.J.L.
 Designed: K.L.E.
 Reviewed: R.L.L.
 Drawn: K.L.E.
 Dwg. Checked: R.J.L.
 Scale: AS SHOWN

PROJECT TITLE:
ESS INC. SITE IMPROVEMENTS

SHEET TITLE:
EXISTING CONDITIONS AND DEMOLITION PLAN - EAST

SHEET NO.
C1.01

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SITE LAYOUT AND STORMWATER GENERAL NOTES:

1. TRAFFIC CONTROL FOR THE SITE SHALL FOLLOW THE PROVISIONS IN THE LATEST VERSION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
2. SIDEWALK CROSS SLOPES SHALL BE 1.5% MAXIMUM TOWARDS THE PARKING FIELD, WHERE APPLICABLE.
3. REFER TO LANDSCAPING NOTES ON SHEET C4.00 FOR LANDSCAPE REQUIREMENTS.
4. ALL DRAINAGE AND UTILITY STRUCTURES SHALL BE INSTALLED SO THAT RIM ELEVATIONS CAN BE ADJUSTED TO MATCH FINISHED GRADE.
5. SWALE DIMENSIONS SHOWN ARE TO BOTTOM OF SWALE, UNLESS INDICATED OTHERWISE.
6. IN AREAS WHERE STORMWATER LINES ARE LESS THAN 36", THE STORMWATER LINE SHALL BE COMPRISED OF DUCTILE IRON, CLASS-51 CEMENT LINED PIPE (DI CL-51).

LEGEND

	NEW ASPHALT CONCRETE PAVEMENT AREA
	NEW PORTLAND CEMENT CONCRETE AREA
	NEW VEGETATED SWALE AREA

ⓧ SITE LAYOUT AND STORMWATER KEYNOTES:

1. PAINT NEW 4" WIDE, WHITE STRIPE.
2. PAINT NEW ADA WHEELCHAIR SYMBOL. SEE DETAIL 1/C5.00.
3. CONSTRUCT NEW ACCESSIBLE PARKING AREA AND LANDING ZONE. AREA SHALL NOT EXCEED 1.8% IN ANY DIRECTION. SEE DETAIL 1/C5.00.
4. CONSTRUCT NEW VAN-ACCESSIBLE PARKING AREA AND LANDING ZONE. AREA SHALL NOT EXCEED 1.8% IN ANY DIRECTION. SEE DETAIL 1/C5.00.
5. PAINT NEW ACCESSIBLE PATH. STRIPING SHALL BE COMPRISED OF 4" WIDE, WHITE STRIPES AT A 45° ANGLE, SPACED 2' ON CENTER, WITH 4" WIDE, WHITE CONTINUOUS STRIPING ALONG EDGES. PATH SHALL BE 5' WIDE.
6. INSTALL CONCRETE WHEELSTOP, 5' LONG, 8" WIDE. CENTER BETWEEN SPACES AND SECURE TO PAVEMENT.
7. CONSTRUCT ASPHALT CONCRETE PAVEMENT SECTION. SEE DETAIL 3/C5.00 AND CITY OF WILSONVILLE DRAWING NUMBER RD-1170/C5.00.
8. CONSTRUCT NEW THICKENED PORTLAND CEMENT CONCRETE PAVEMENT SECTION. SEE DETAIL 2/C5.00.
9. CONSTRUCT NEW RAMP PER GRADING DETAILS ON SHEET C3.10.
10. CONSTRUCT NEW STRUCTURAL WALL AND GUARDRAIL ALONG RAMP PER DETAIL 1/C5.01.
11. CONNECT EXISTING STORMWATER LINES TO THE NEW CATCH BASIN USING APPROVED PREMANUFACTURED FITTINGS.
12. CONSTRUCT NEW 24" DIAMETER NYLOPLAST OVERFLOW INLET WITH GRATE PER CITY OF WILSONVILLE DRAWING NUMBER S-2112/C5.00. 6" UNDERDRAIN PIPES SHALL CONNECT TO THE NEW BASIN WITH REMOVABLE CAPS WITH 1" DRILLED ORIFICES.
13. CONSTRUCT UNLINED STORMWATER SWALE PER CITY OF WILSONVILLE DRAWING NUMBER ST-6045/C5.01. SIDE SLOPES SHALL BE 3H:1V, MAXIMUM. AREAS WITHIN SWALE BASINS SHALL BE PROTECTED FROM USE AS CONSTRUCTION STORAGE AREAS AND OVER-COMPACTION BY EQUIPMENT THROUGHOUT THE CONSTRUCTION PERIOD.
14. CONSTRUCT STORMWATER CHANNEL FOR RUNOFF PER GRADING PLANS C3.00 AND C3.01. SEE CROSS SECTION DETAIL, SHEET C3.10.
15. ADJUST EXISTING STORMWATER CLEANOUT RIM IN NEW RAMP TO FINISH GRADE.
16. INSTALL NEW TREE PER CITY OF WILSONVILLE DRAWING NUMBER P-5000/C5.01. TREE SHALL BE 1" CALIPER MINIMUM TILIA CORDATA, LITTLELEAF LINDEN.
17. CONSTRUCT NEW 6" PERFORATED PVC UNDERDRAIN LINE BENEATH STORMWATER SWALE. CONNECT TO OVERFLOW INLET USING APPROVED FITTINGS. UNDERDRAIN SHALL BE EMBEDDED IN DRAIN ROCK SECTION, WITH INVERT ELEVATION BEING APPROXIMATELY 2.50' BELOW SOIL SURFACE.
18. EXTERIOR DOWNSPOUT LINE TO REMAIN. INSTALL CONCRETE FILLED BOLLARD OR OTHER PROTECTION.

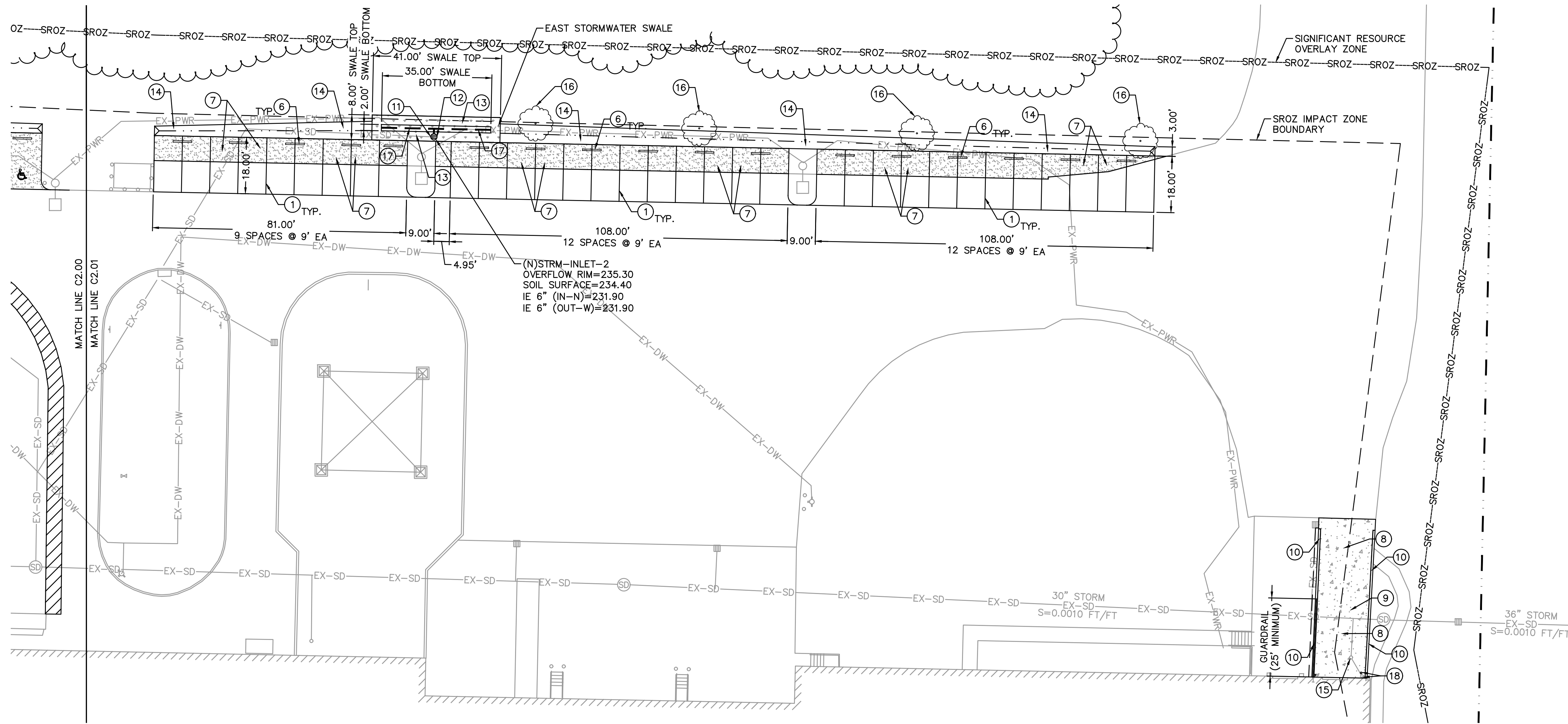
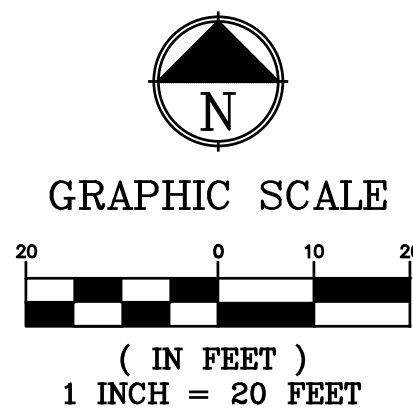
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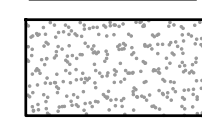
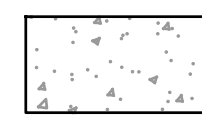
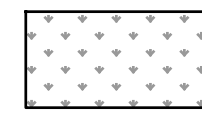
PROJECT TITLE:
ESS INC. SITE IMPROVEMENTS
 SHEET TITLE:
SITE LAYOUT AND STORMWATER PLAN - WEST
 SHEET NO.
C2.00



SITE LAYOUT AND STORMWATER GENERAL NOTES:

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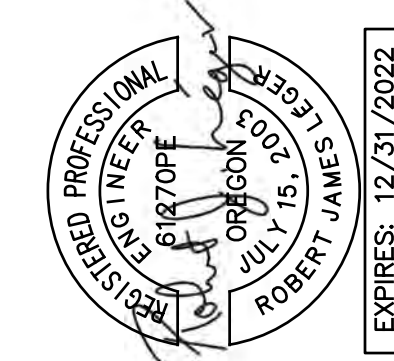
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-  NEW VEGETATED SWALE AREA

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18. EXTERIOR DOWNSPOUT LINE TO REMAIN. INSTALL CONCRETE FILLED BOLLARD OR OTHER PROTECTION.

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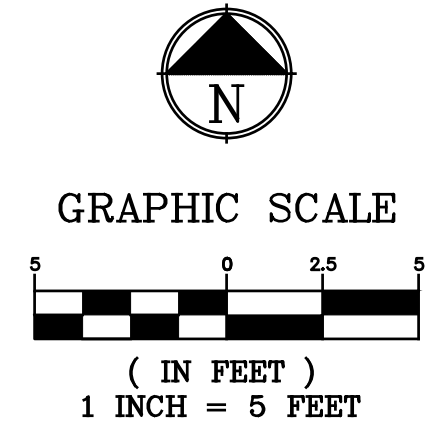
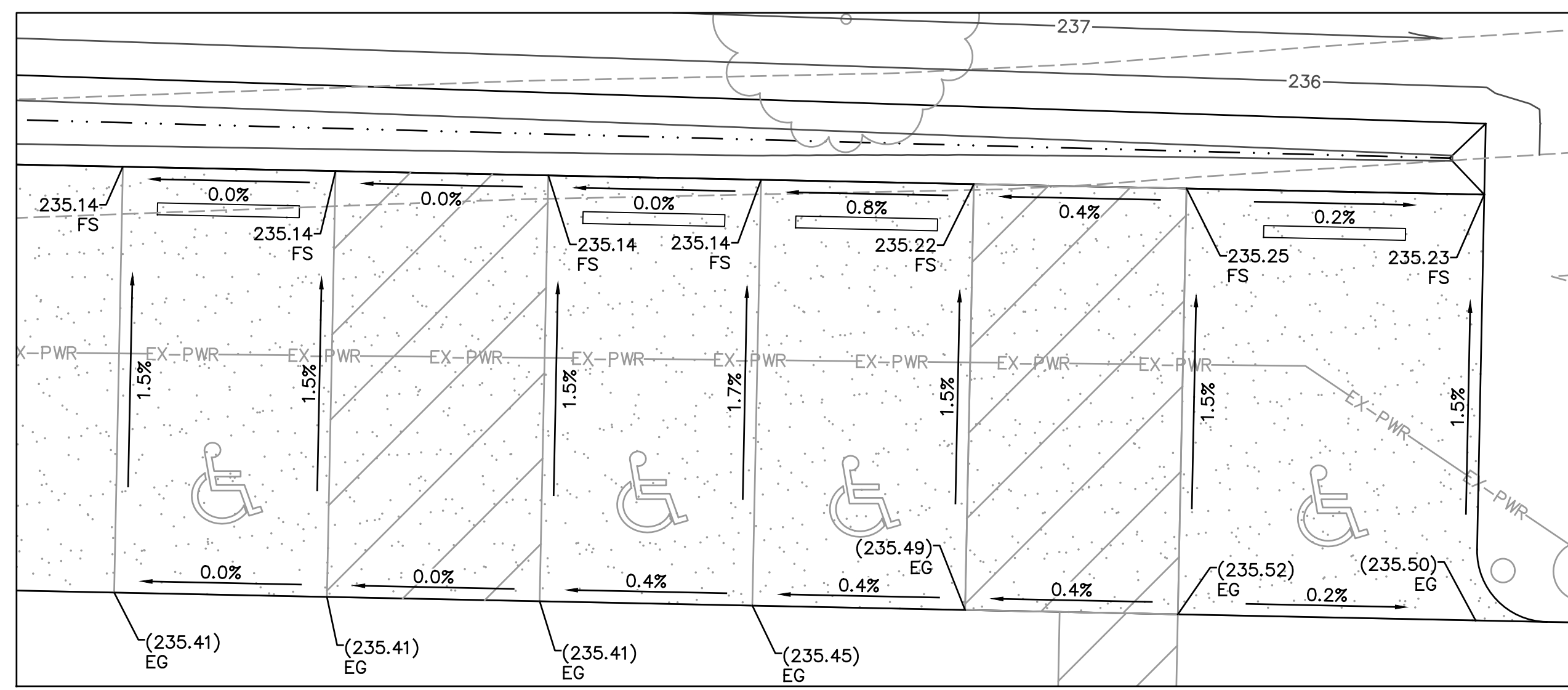
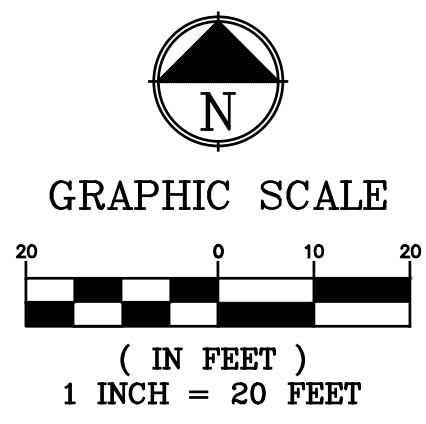
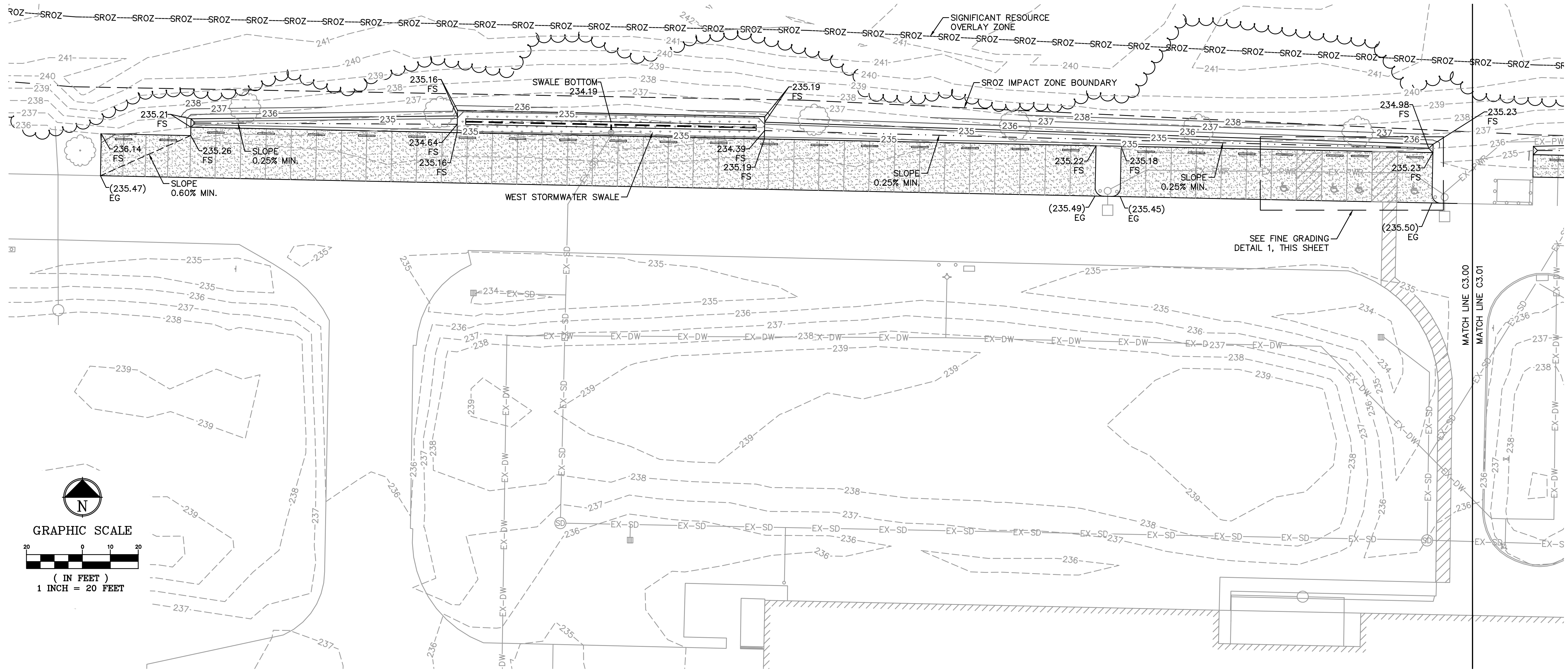
Job No.: 21032-0041	Proj. Manager: R.JL
Designed: KLE	Reviewed: R.JL
Drawn: KLE	Dwg. Checked: R.JL
Scale: AS SHOWN	

PROJECT TITLE:
ESS INC. SITE IMPROVEMENTS

SHEET TITLE:
SITE LAYOUT AND STORMWATER PLAN - EAST

SHEET NO.
C2.01

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GRADING GENERAL NOTES:

1. TRAFFIC CONTROL FOR THE SITE SHALL FOLLOW THE PROVISIONS IN THE LATEST VERSION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
2. SIDEWALK AND ACCESSIBLE STRIPED PATH CROSS SLOPES SHALL NOT EXCEED 1.5% CROSS SLOPE, WHERE APPLICABLE. NOTIFY ENGINEER IF ANY DISCREPANCIES OCCUR.
3. ADA AREAS SHALL NOT EXCEED 1.8% IN ANY DIRECTION.
4. REFER TO LANDSCAPING NOTES ON SHEET C4.00 FOR LANDSCAPE REQUIREMENTS.
5. ALL DRAINAGE AND UTILITY STRUCTURES SHALL BE INSTALLED SO THAT RIM ELEVATIONS CAN BE ADJUSTED TO MATCH FINISHED GRADE.
6. ESTIMATED RAMP TIE-IN ELEVATION IS 237.04. CONTRACTOR SHALL VERIFY RAMP TIE-IN ELEVATION PRIOR TO CONSTRUCTION. NOTIFY ENGINEER OF RECORD OF ANY DISCREPANCIES.

LEGEND

- NEW ASPHALT CONCRETE PAVEMENT AREA
- NEW PORTLAND CEMENT CONCRETE AREA
- NEW VEGETATED SWALE AREA

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ROBERT JAMES STEFFER
EXPIRES: 12/31/2022

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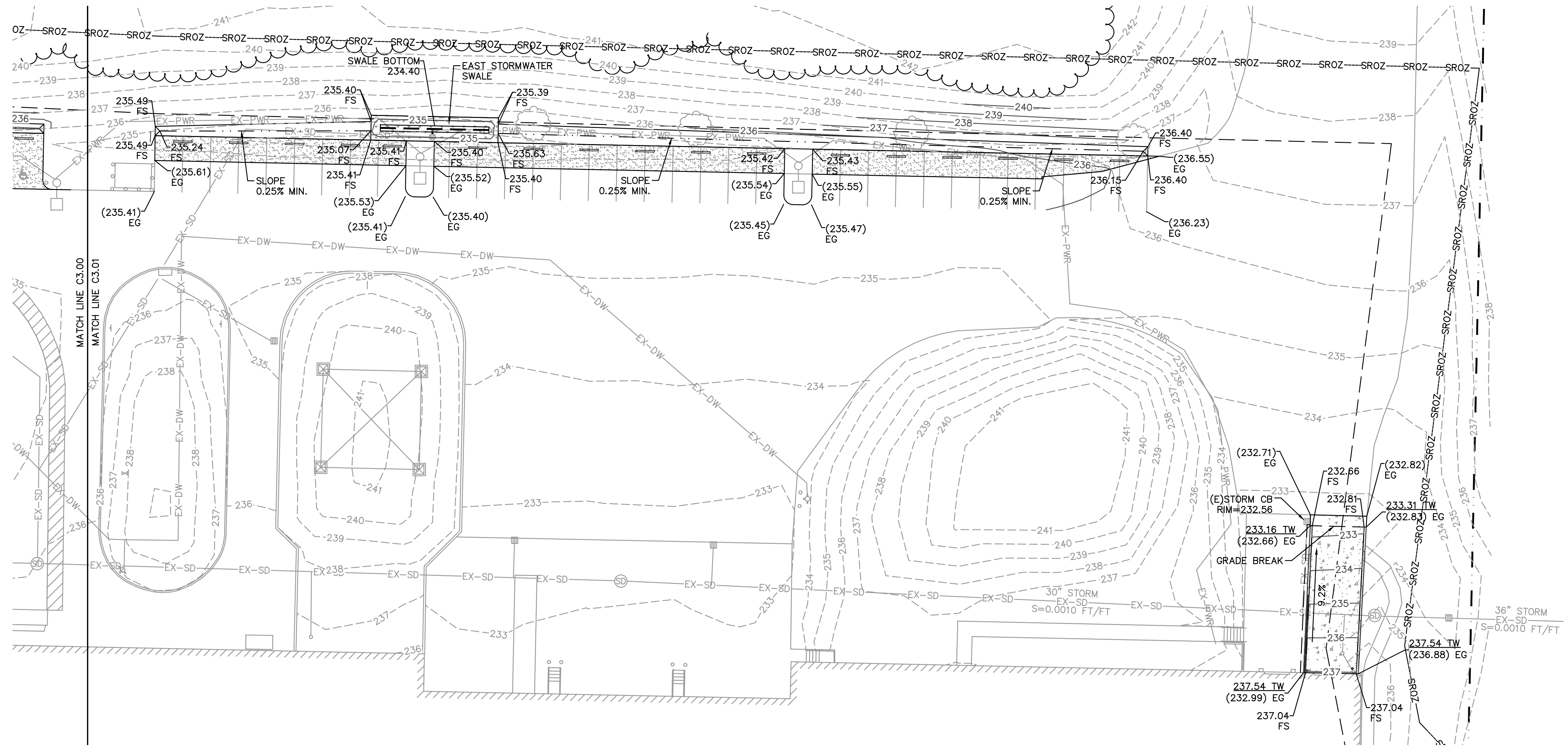
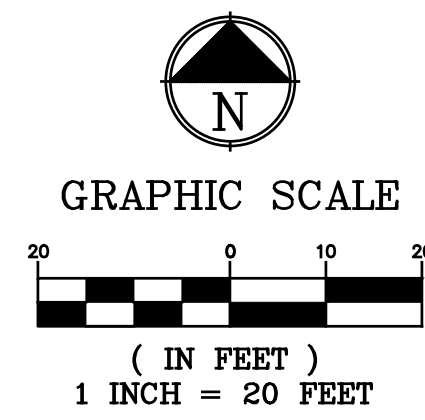
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ESS INC. SITE IMPROVEMENTS

SHEET TITLE:
GRADING PLAN - WEST




SHEET NO.
C3.00



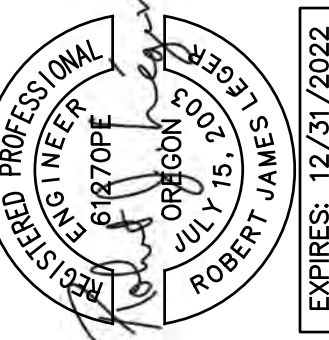
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LEGEND

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 REGISTERED PROFESSIONAL ENGINEER
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 JULY 15, 2003
 ROBERT JAMES STEFF
 EXPIRES: 12/31/2022

REVISIONS:

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SHEET TITLE:
GRADING PLAN – EAST

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C3.01

SIGNAGE NOTES:

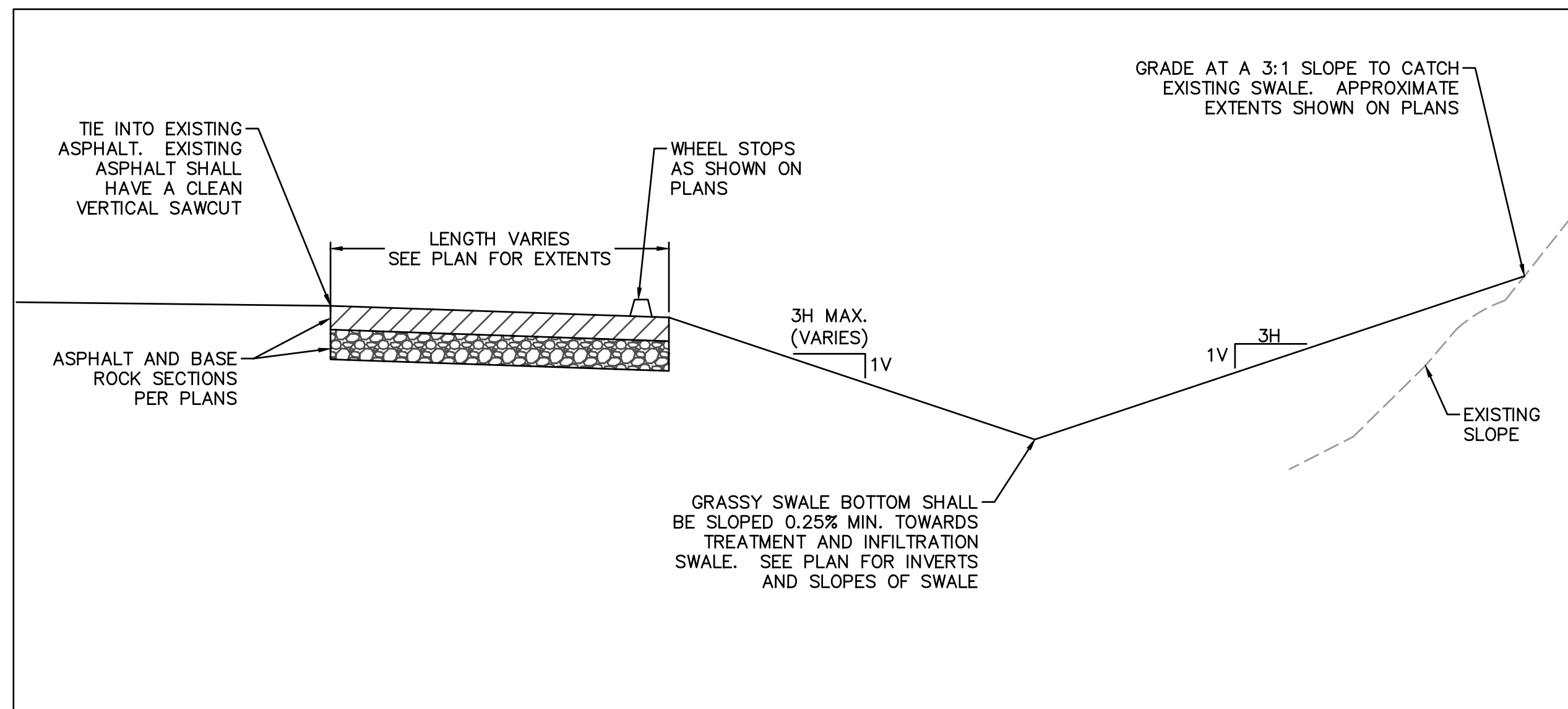
301.12.03 SIGNAGE REQUIREMENTS

INFORMATIONAL SIGNAGE IS REQUIRED FOR SOME SITE USES AND ACTIVITIES THAT HAVE THE POTENTIAL TO CONTAMINATE STORMWATER. SIGNAGE ADDRESSES GOOD HOUSEKEEPING RULES AND PROVIDES EMERGENCY RESPONSE MEASURES IN CASE OF AN ACCIDENTAL SPILL.

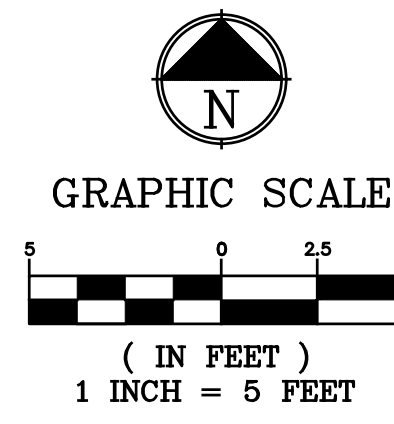
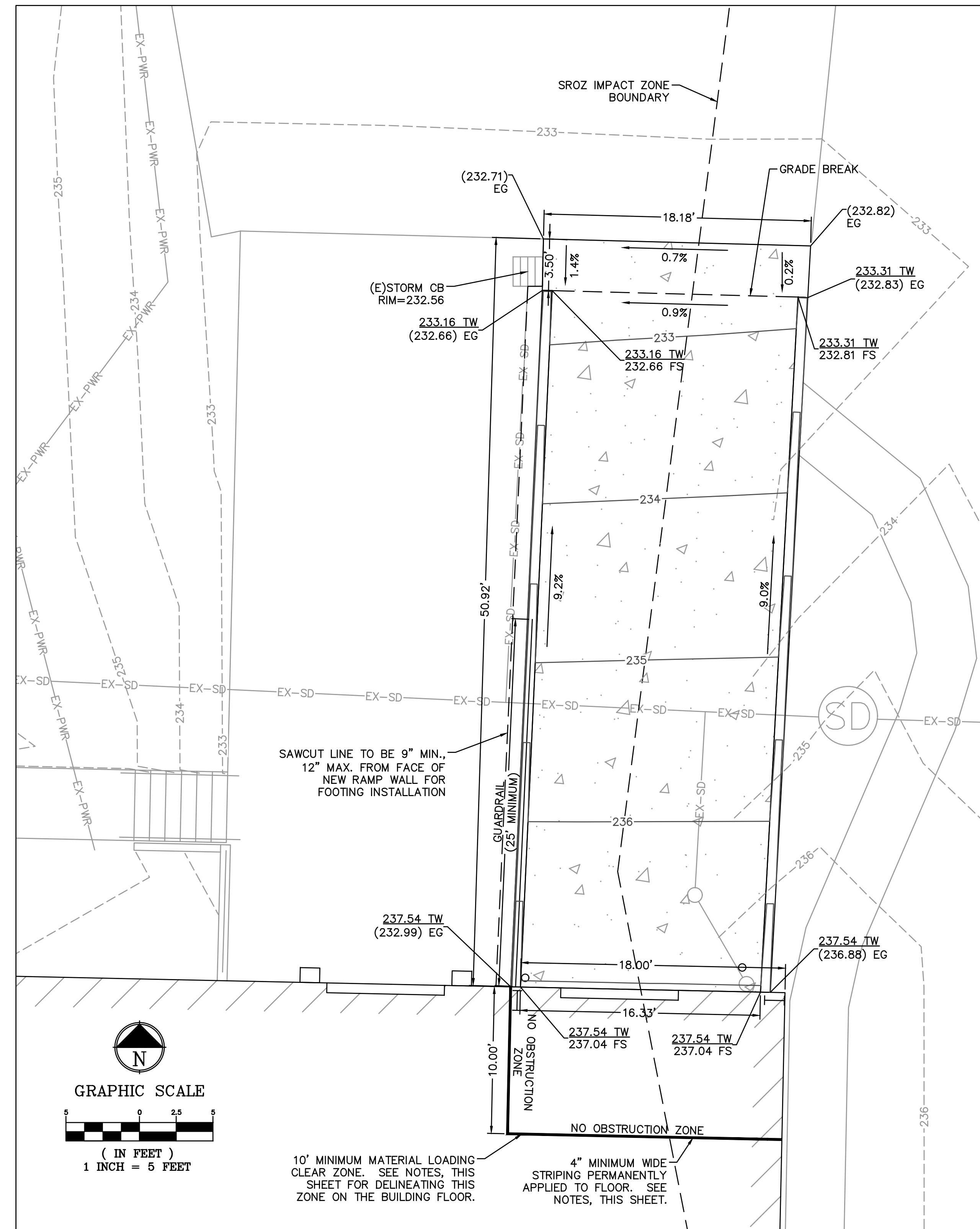
- a. SIGNS SHALL BE LOCATED AND PLAINLY VISIBLE FROM ALL ACTIVITY AREAS. MORE THAN ONE SIGN MAY BE NEEDED TO ACCOMMODATE LARGER ACTIVITY AREAS. SIGNS SHALL BE WATER-RESISTANT. THEY SHALL INCLUDE THE FOLLOWING INFORMATION:
 - 1. SAFETY PRECAUTIONS
 - 2. IMMEDIATE SPILL RESPONSE PROCEDURES—FOR EXAMPLE: 'TURN THE VALVE LOCATED AT...' OR 'USE ABSORBENT MATERIALS'.
 - 3. EMERGENCY CONTACT(S) AND TELEPHONE NUMBER(S).
- b. SIGNS MAY NEED TO BE IN MORE THAN ONE LANGUAGE IF REQUIRED TO EFFECTIVELY COMMUNICATE WITH EMPLOYEES AND DELIVERY PERSONNEL.
- c. ANY APPLICABLE SPILL RESPONSE SUPPLIES NEED TO BE CLEARLY MARKED AND LOCATED WHERE THE SIGNAGE IS POSTED AND NEAR THE HIGH-RISK ACTIVITY AREA. MORE THAN ONE SPILL RESPONSE KIT MAY BE NECESSARY TO ACCOMMODATE LARGER ACTIVITY AREAS.

GRADE DOOR WITH RAMP MAY BE USED AS A MATERIAL TRANSFER AREA. ALL MATERIAL TRANSFERS SHALL OCCUR **INSIDE** THE BUILDING. INTERIOR TRANSFER AREA SHALL COMPLY WITH THE REQUIREMENTS NOTED BELOW:

BAY DOORS AND OTHER INTERIOR TRANSFER AREAS SHALL PROVIDE A 10-FOOT 'NO OBSTRUCTION ZONE' BEYOND THE ENTRANCE WITHIN THE BUILDING. THIS WILL ALLOW THE TRANSFER OF MATERIALS TO OCCUR WITH THE TRUCK OR TRAILER END PLACED AT LEAST 5 FEET INSIDE THE BUILDING, WITH AN ADDITIONAL STAGING AREA OF 5 FEET BEYOND THAT. THE 'NO OBSTRUCTION' ZONE SHALL BE CLEARLY IDENTIFIED ON THE STORMWATER MANAGEMENT PLAN AT THE TIME OF THE BUILDING PERMIT APPLICATION, AND SHALL BE PAINTED AT THE FACILITY WITH BRIGHT OR FLUORESCENT FLOOR PAINT.



TYPICAL STORMWATER CHANNEL SECTION
SCALE: NTS



RAMP DETAIL
SCALE: 1" = 5'

File Location: 0:10320-PortlandDCI-Civil\2021\121032-0041 ESS Inc\DRAWINGS\SHEETS\1032-0041_GRAB-DET.dwg

Plot Date: 2022-12-15

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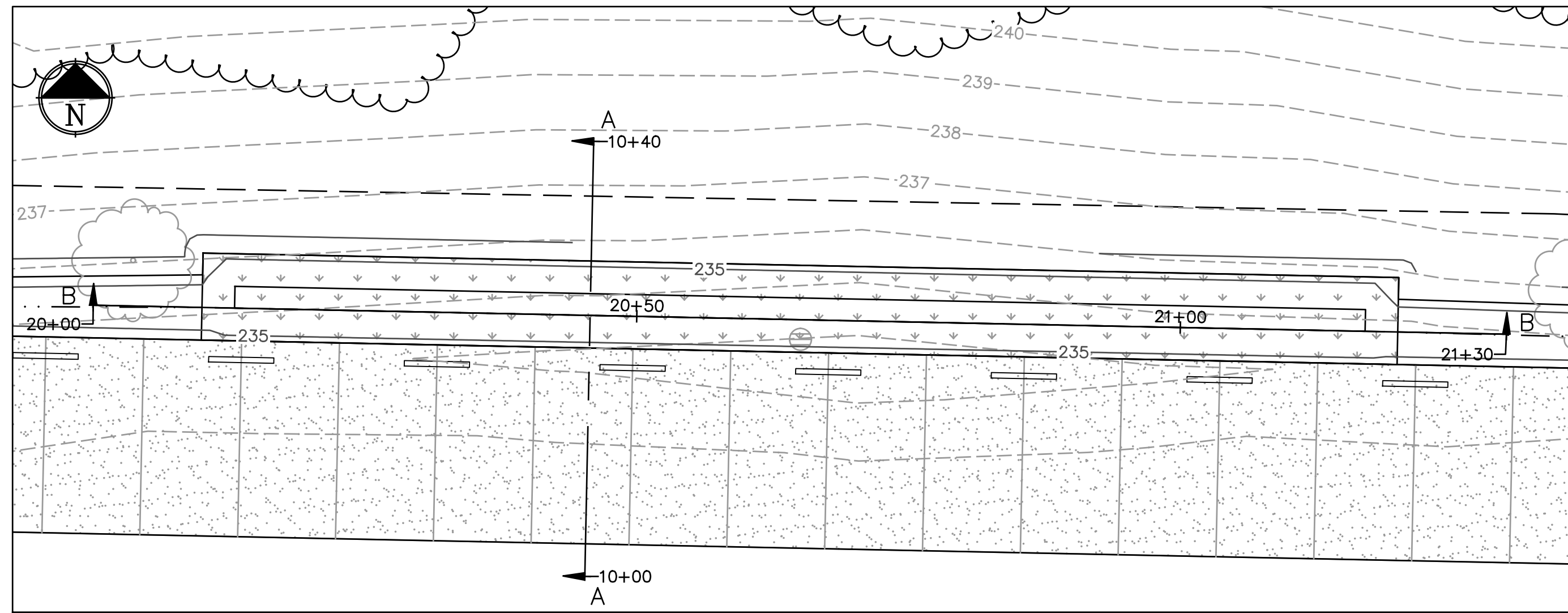
APPROVALS:

Job No.: 21032-0041	Proj. Manager: RJJ
Designed: KLE	Reviewed: RJJ
Drawn: KLE	Dwg. Checked: RJJ
Scale: AS SHOWN	

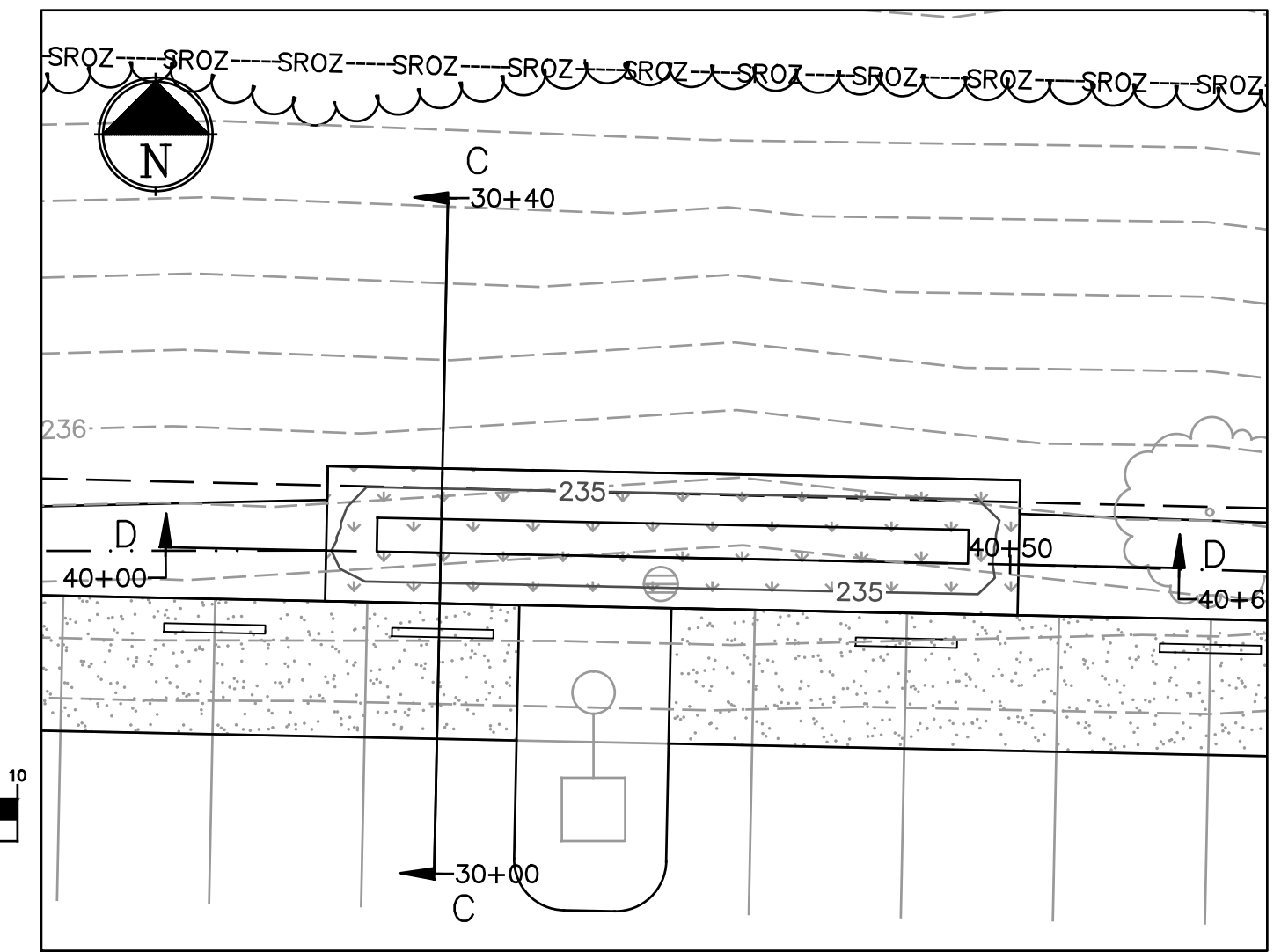
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SHEET TITLE: **GRADING DETAILS**

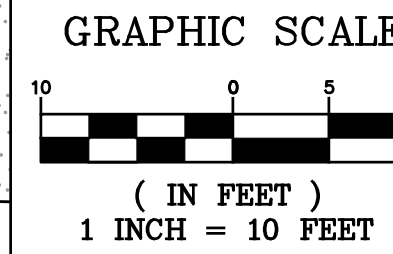
SHEET NO. **C3.10**



WEST SWALE - PLAN VIEW
 SCALE: 1"=10'

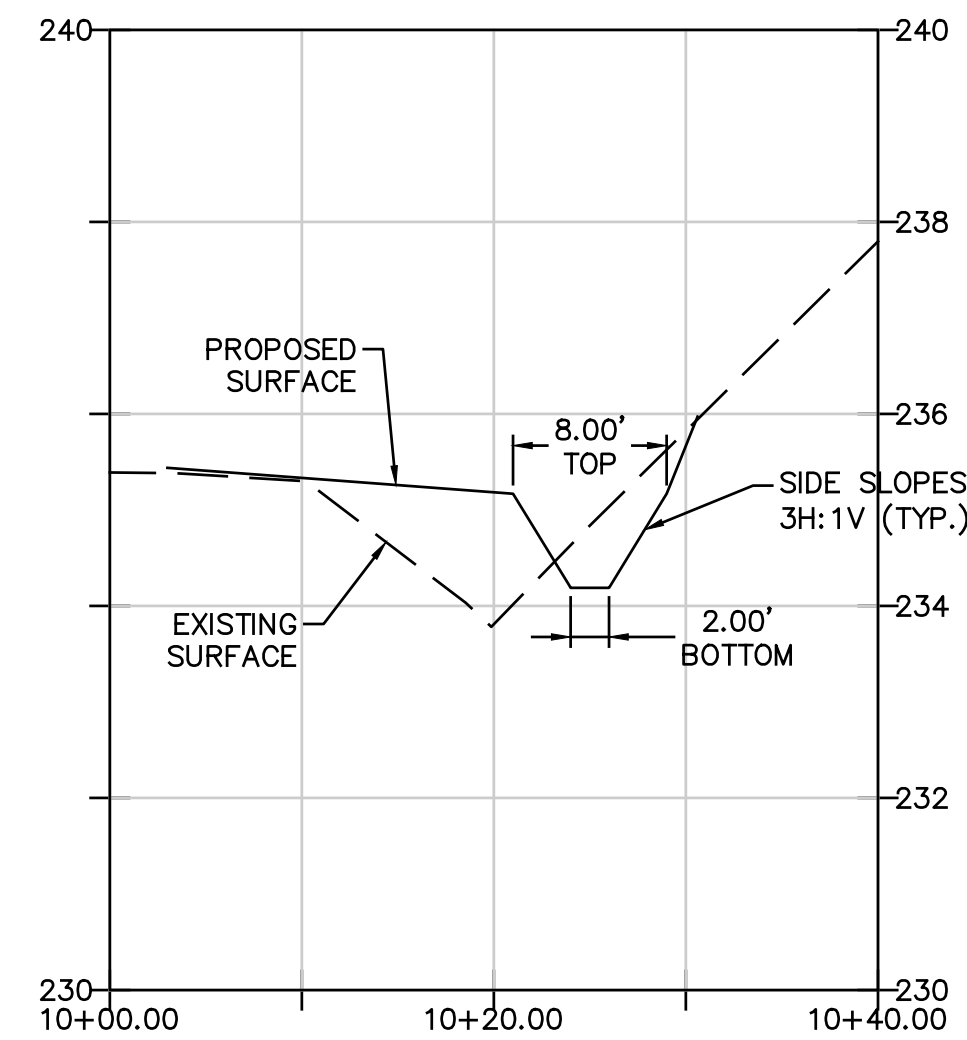


EAST SWALE - PLAN VIEW
 SCALE: 1"=10'

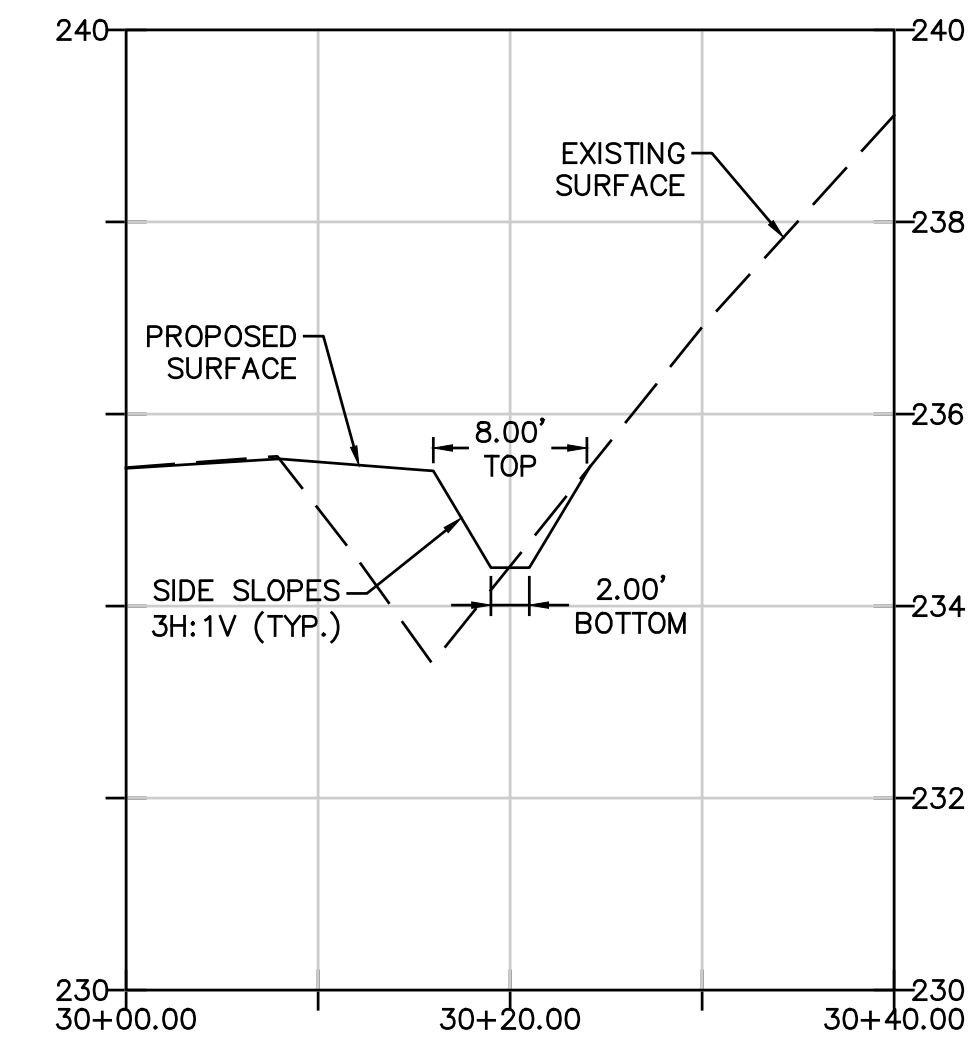


LANDSCAPING NOTES:

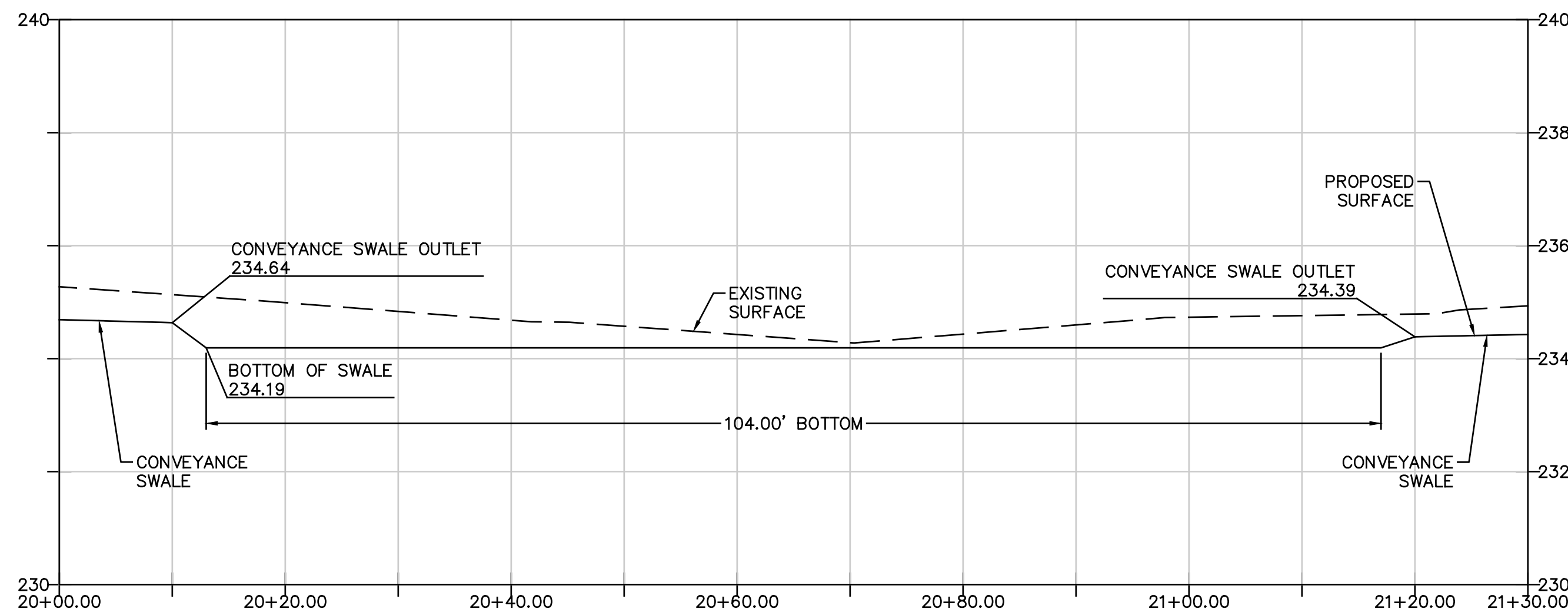
- LANDSCAPING REQUIREMENTS PER CITY OF WILSONVILLE SECTION 3 - PUBLIC WORKS STANDARDS: STORMWATER & SURFACE WATER DESIGN & CONSTRUCTION STANDARDS, 2015 ED.
- THE WEST AND EAST SWALES ARE DESIGNATED "VEGETATED SWALE - FILTRATION" FACILITY TYPE, PER APPENDIX A OF THE STORMWATER & SURFACE WATER DESIGN & CONSTRUCTION STANDARDS, SECTION A.2.06.
 - PLANTING ZONES WITHIN THE WEST AND EAST SWALES ARE MOISTURE ZONE (A) ONLY.
- SECTION A.3.00 PLANTING METHODS: PER PART B.3. (b), PLANT QUANTITIES FOR MOISTURE ZONE (A) ARE AS FOLLOWS, PER 100 SF OF FACILITY AREA:
 - 3 LARGE SHRUBS/SMALL TREES
 - 4 SMALL SHRUBS
 - 115 GROUNDCOVER PLANTS
- PLANTING QUANTITIES FOR WEST SWALE (SEE SWALE AREAS BELOW FOR REFERENCE):
 - 27 LARGE SHRUBS
 - 36 SMALL SHRUBS
 - 1,012 GROUNDCOVER PLANTS
- PLANTING QUANTITIES FOR EAST SWALE (SEE SWALE AREAS BELOW FOR REFERENCE):
 - 10 LARGE SHRUBS
 - 14 SMALL SHRUBS
 - 378 GROUNDCOVER PLANTS
- PLANT SPECIES:
 - LARGE SHRUBS SHALL BE SPIREA DOUGLASII, DOUGLAS SPIRAEA.
 - SMALL SHRUBS SHALL BE PHYSOCARPUS CAPITATUS, PACIFIC NINEBARK.
 - GROUNDCOVER PLANTS SHALL BE CORNUS SERICEA 'KELSEYI', KELSEY DOGWOOD.
- NOTE: SPECIES SUBSTITUTIONS ARE ALLOWED AND MUST BE SELECTED FROM APPENDIX A, TABLE A-2, OF THE STORMWATER & SURFACE WATER DESIGN & CONSTRUCTION STANDARDS.
- MINIMUM PLANT SIZES:
 - LARGE SHRUBS: 30" HEIGHT
 - SMALL SHRUBS/GROUNDCOVER: #1 CONTAINER
 - HERBACEOUS PLANTS: SP #4 CONTAINER
- CONVEYANCE SWALE LANDSCAPING SHALL BE GRASS (SEE OR SOD).



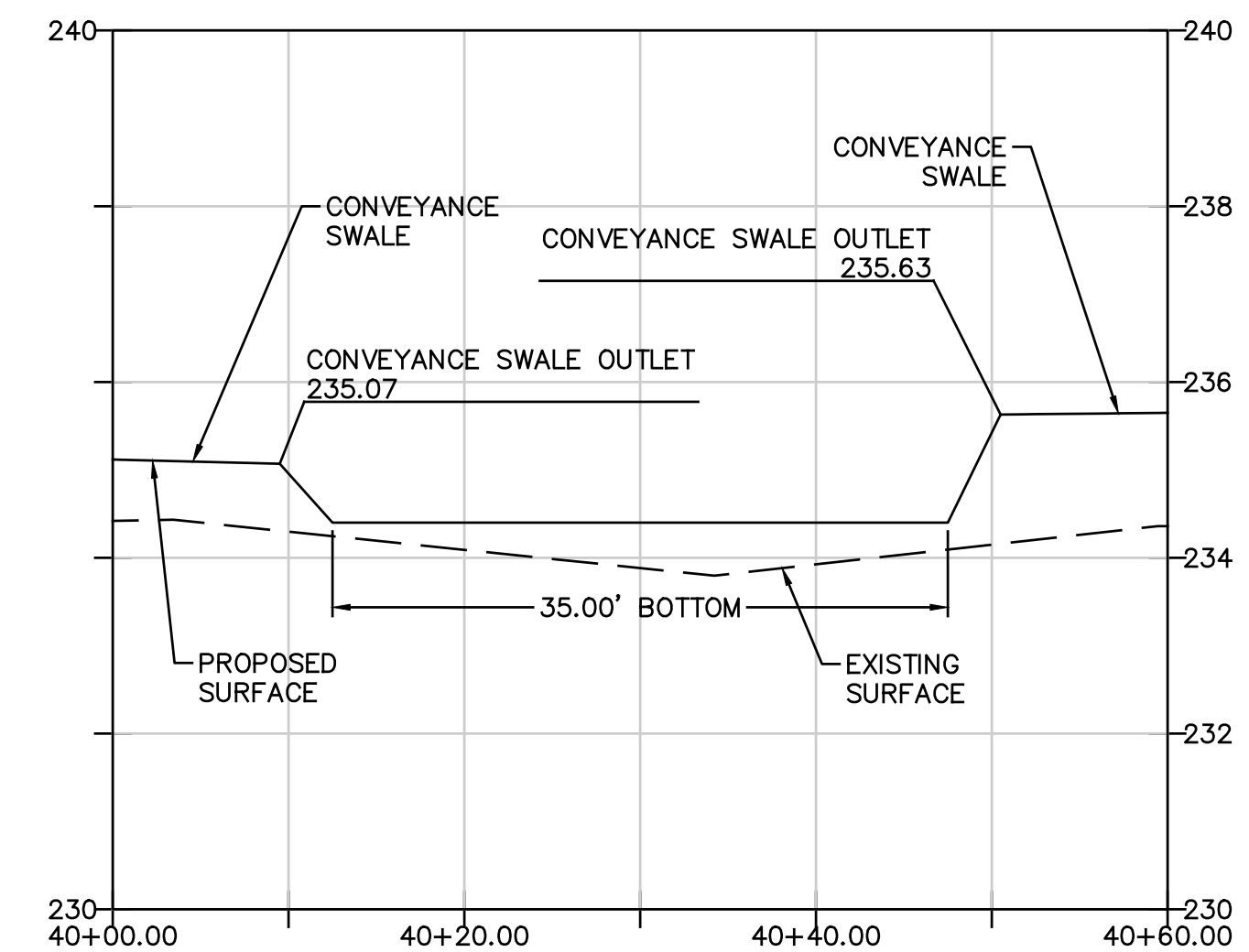
WEST SWALE - SECTION A-A
 SCALE: 1"=10' H
 1"=2' V



EAST SWALE - SECTION C-C
 SCALE: 1"=10' H
 1"=2' V



WEST SWALE - SECTION B-B
 SCALE: 1"=10' H
 1"=2' V



EAST SWALE - SECTION D-D
 SCALE: 1"=10' H
 1"=2' V

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NO.	DATE	DESCRIPTION

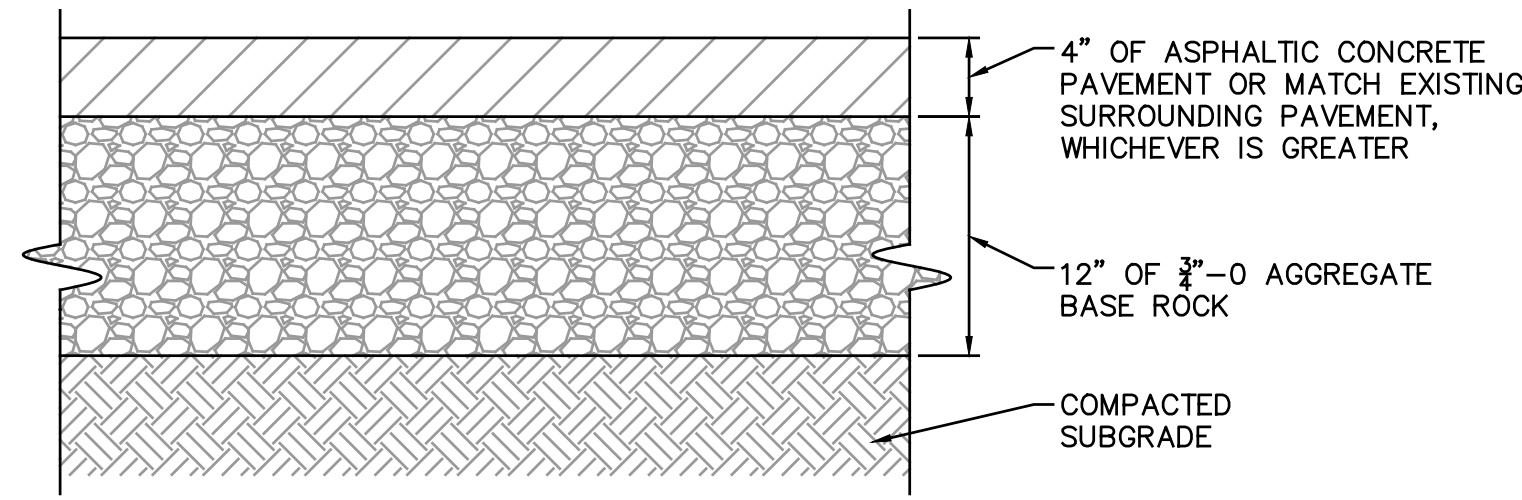
APPROVALS:

Job No.: 21032-0041	Proj. Manager: RJL
Designed: KLE	Reviewed: RJL
Drawn: KLE	Dwg. Checked: RJL
Scale: AS SHOWN	

PROJECT TITLE:
ESS INC. SITE IMPROVEMENTS

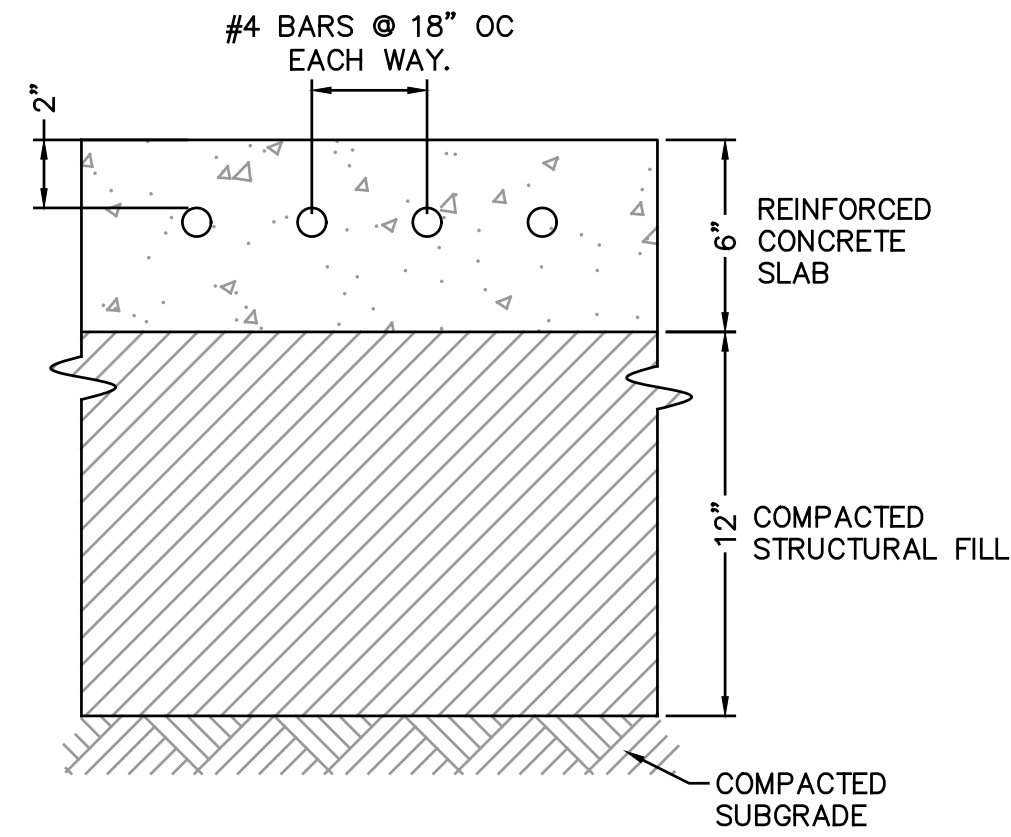
SHEET TITLE:
SWALE SECTIONS

SHEET NO.
C4.00

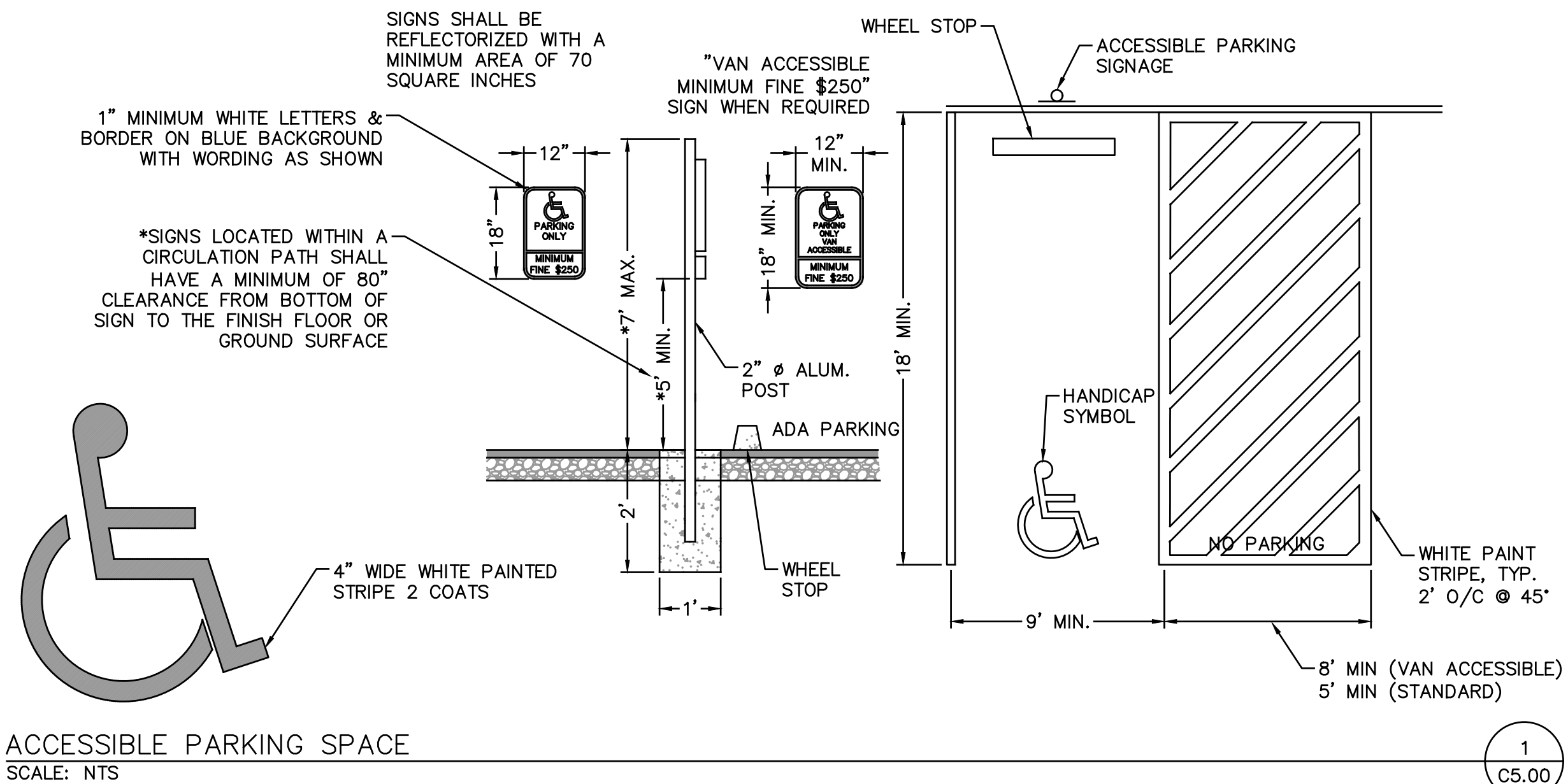


- ASPHALT CONCRETE SHALL BE 1/2" LEVEL 2 WITH PG-64-22 ASPHALT BINDER. THE 6" ASPHALT CONCRETE SECTION SHALL BE PLACED IN (3) 2" LIFTS. THE ASPHALTIC CONCRETE PAVING MATERIAL SHALL BE COMPACTED TO A MINIMUM OF 92% OF THE THEORETICAL MAXIMUM DENSITY AS DETERMINED IN ACCORDANCE WITH ASTM D2041 (RICE GRAVITY TEST).
- PAVEMENT BASE COURSE MATERIALS SHOULD CONSIST OF WELL-GRADED 3/4"-0 CRUSHED BASE ROCK HAVING LESS THAN 5% FINE MATERIALS PASSING THE NO. 200 SIEVE. THE BASE COURSE AND ASPHALT CONCRETE MATERIALS SHOULD CONFORM TO THE REQUIREMENTS SET FORTH IN THE LATEST EDITION OF THE OREGON DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION. THE BASE COURSE MATERIALS SHALL BE COMPACTED TO A MINIMUM OF 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D1557 (MODIFIED PROCTOR TEST).
- IF CONSTRUCTION OF THE IMPROVEMENTS IS PERFORMED DURING WET AND/OR INCLEMENT WEATHER CONDITIONS, THE AGGREGATE BASE ROCK SECTION SHALL BE INCREASED BY AT LEAST 6 INCHES.

ASPHALT PAVEMENT SECTION DETAIL
SCALE: NTS

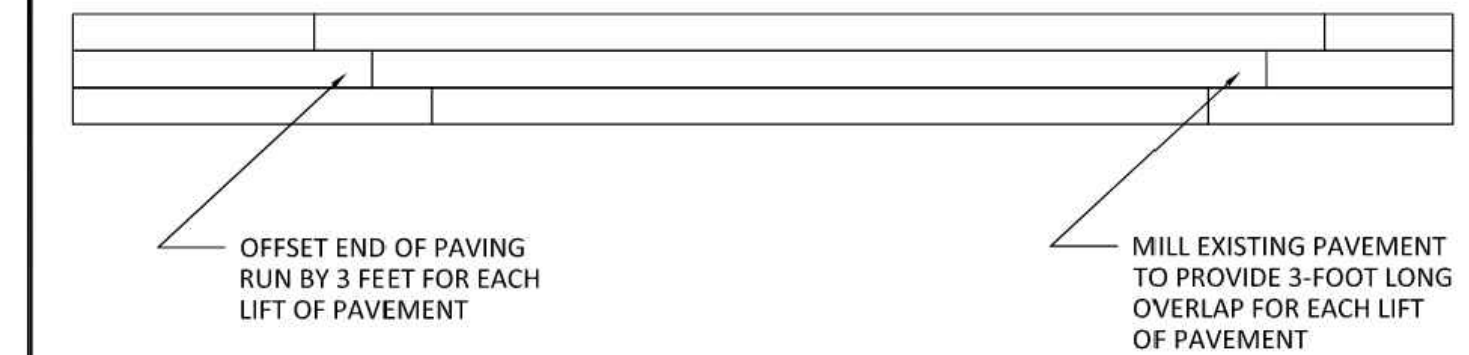
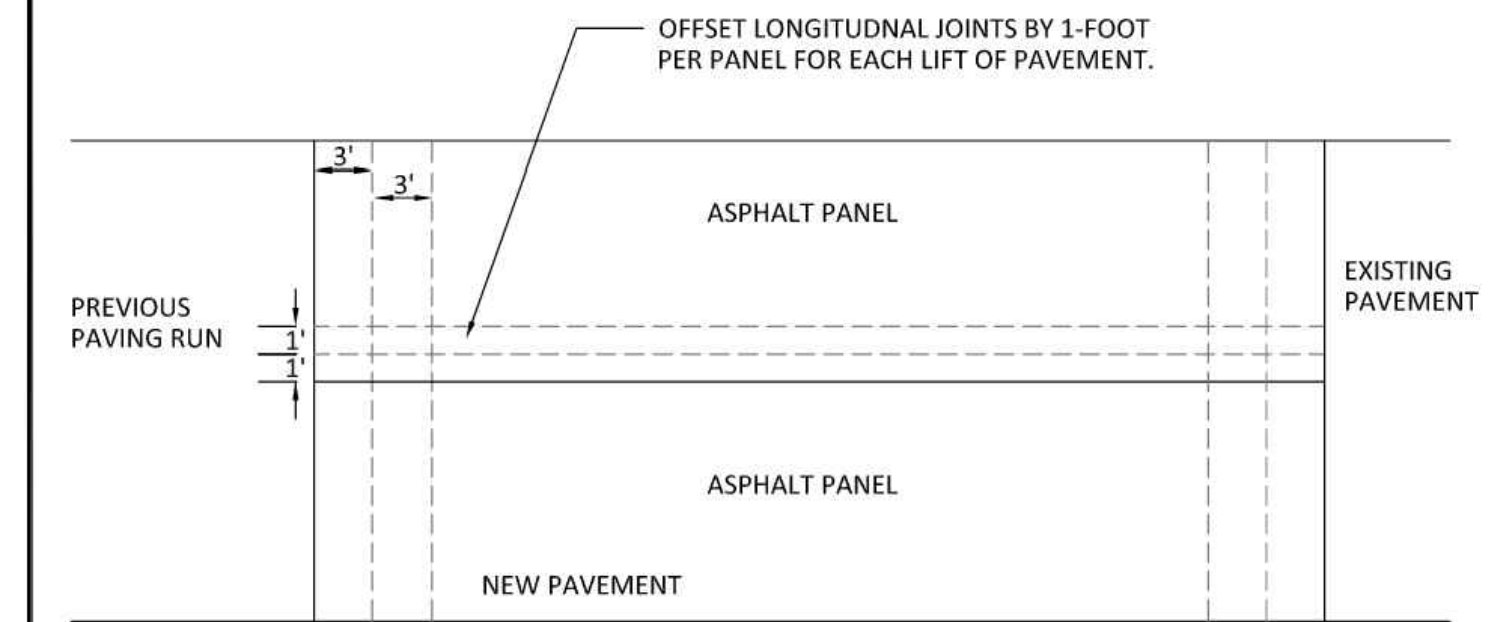


PCC CONCRETE PAVEMENT DETAIL
SCALE: N.T.S.



ACCESSIBLE PARKING SPACE
SCALE: NTS

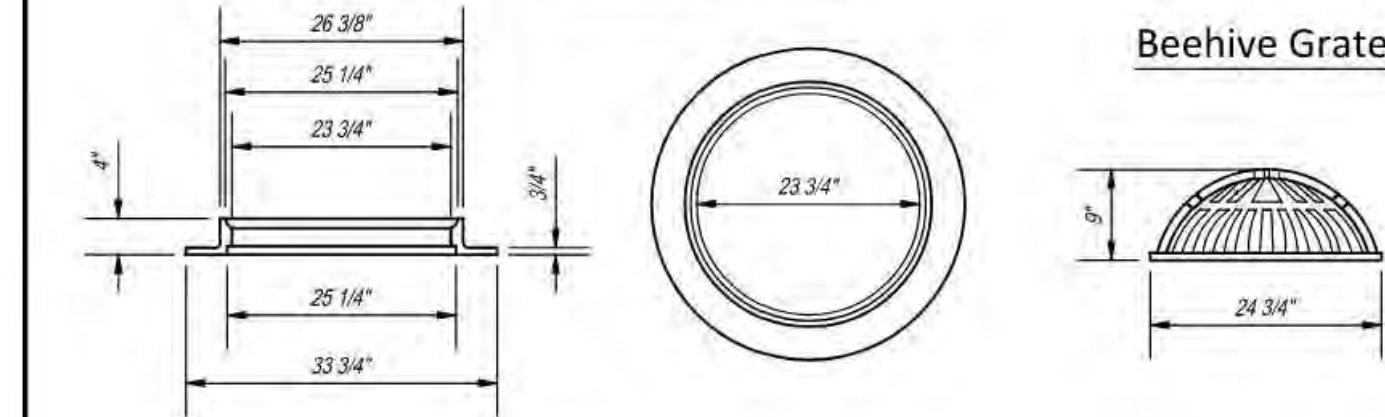
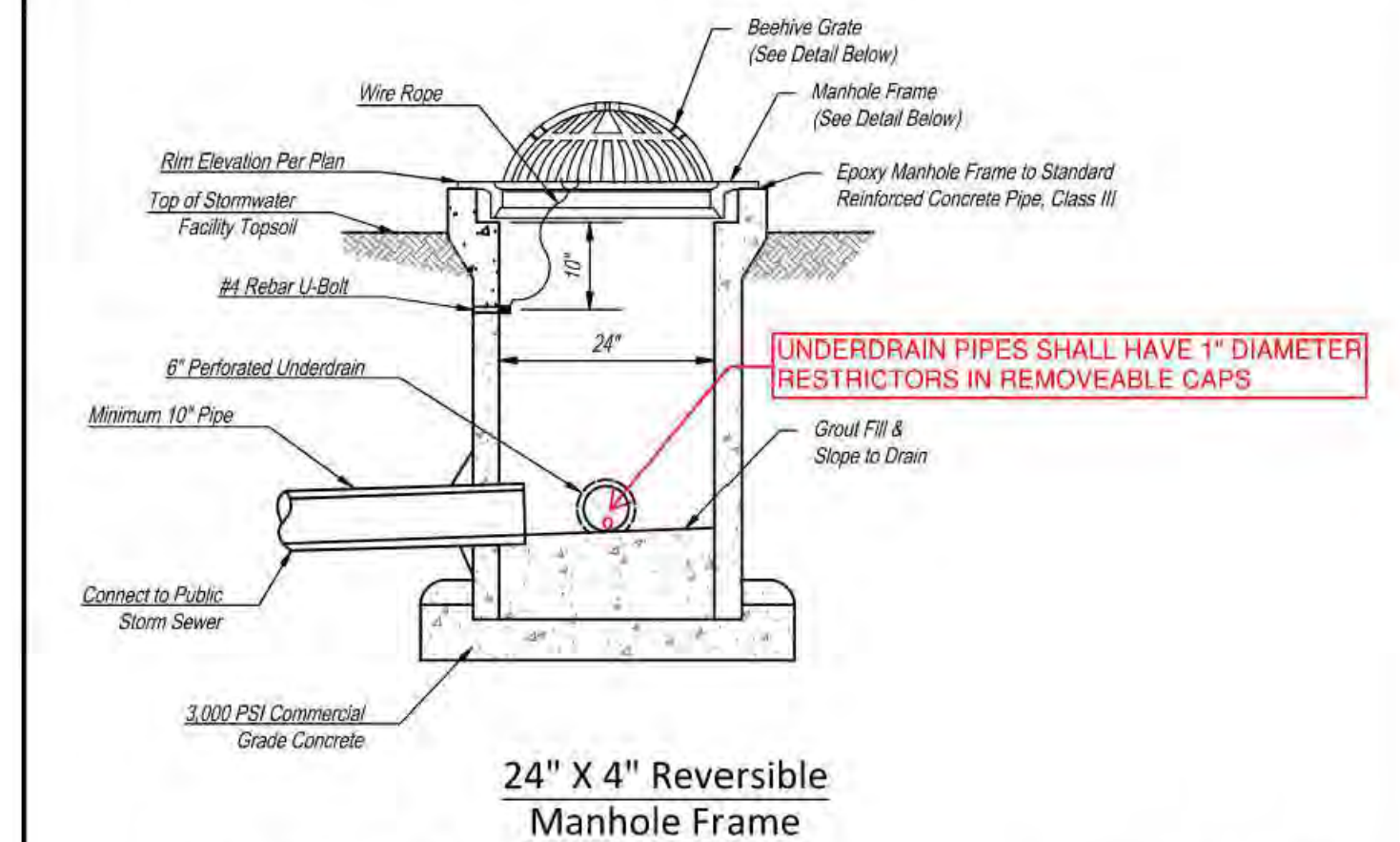
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NOTES:
PRIOR TO PLACING NEW PAVEMENT, ASPHALT COLD JOINTS SHALL BE SAWCUT TO A STRAIGHT LINE, CREATING A SMOOTH, SOUND EDGE FOR JOINING NEW PAVEMENT.

Asphalt Concrete Pavement Placement Detail			CITY OF WILSONVILLE PUBLIC WORKS STANDARDS
DRAWING NUMBER: RD-1170	DRAWN BY: SR	SCALE: N.T.S.	
FILE NAME: RD-1170.DWG	APPROVED BY: NK	DATE: 4/2/14	

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- Notes:
- Secure Grate in Place with 54" of Wire Rope. Loop Ends of Wire Rope around U-Bolt and Grate. Crimp Each End of Wire Rope With 3" Overlap.
 - Drill 2" Deep Holes Into Pipe and Epoxy #4 Rebar U-Bolt (2" X 4") in Holes.
 - Grate to be Cast Iron, ASTM A48 CL30.
 - Set Grate a Minimum of 3" Below Lowest Curb or Inlet Elevation.

Bee Hive Inlet and Grate			CITY OF WILSONVILLE PUBLIC WORKS STANDARDS
DRAWING NUMBER: S-2112	DRAWN BY: SR	SCALE: N.T.S.	
FILE NAME: S-2112.dwg	APPROVED BY: NK	DATE: 06/08/2017	

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Robert James Steffer
REGISTERED PROFESSIONAL ENGINEER
EXPIRES: 12/31/2022

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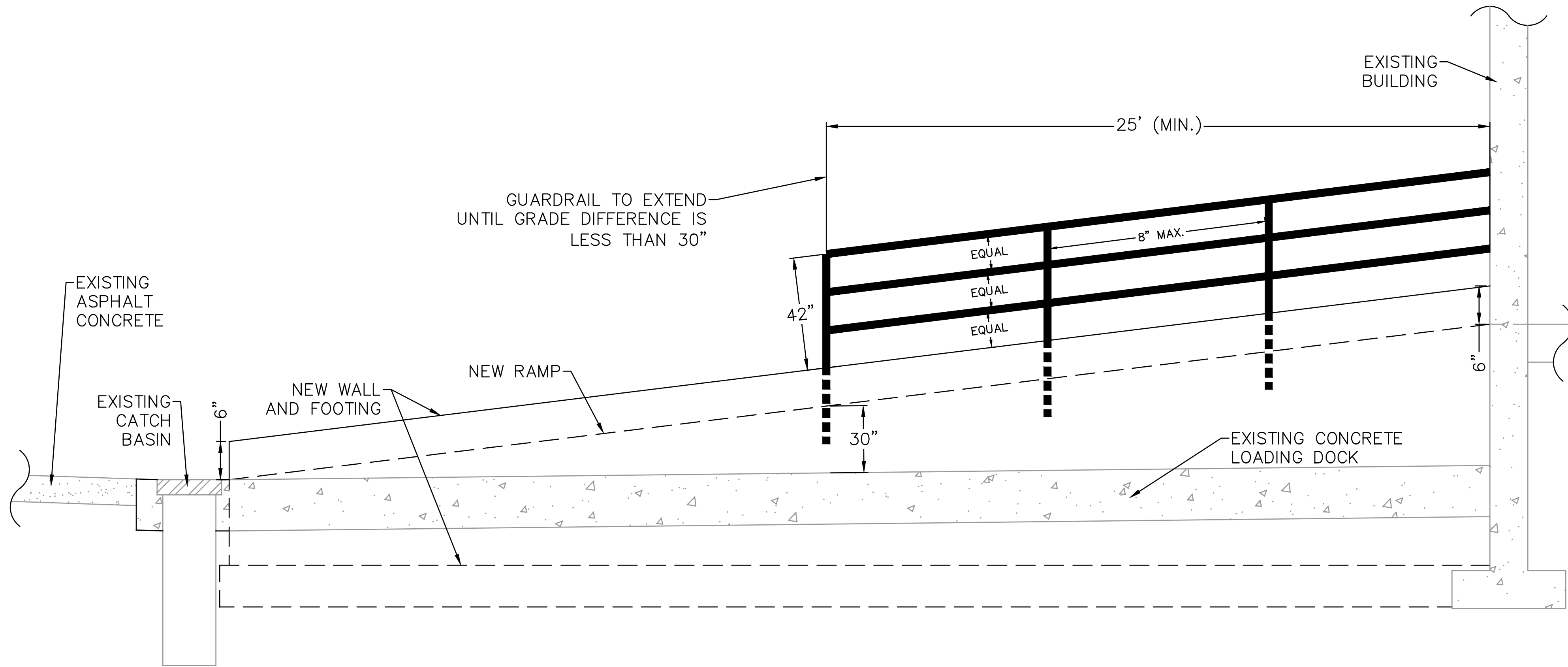
APPROVALS:

Job No.: 21032-0041
Proj. Manager: R.JL
Designed: KLE
Reviewed: R.JL
Drawn: KLE
Dwg. Checked: R.JL
Scale: AS SHOWN

PROJECT TITLE:
ESS INC. SITE IMPROVEMENTS

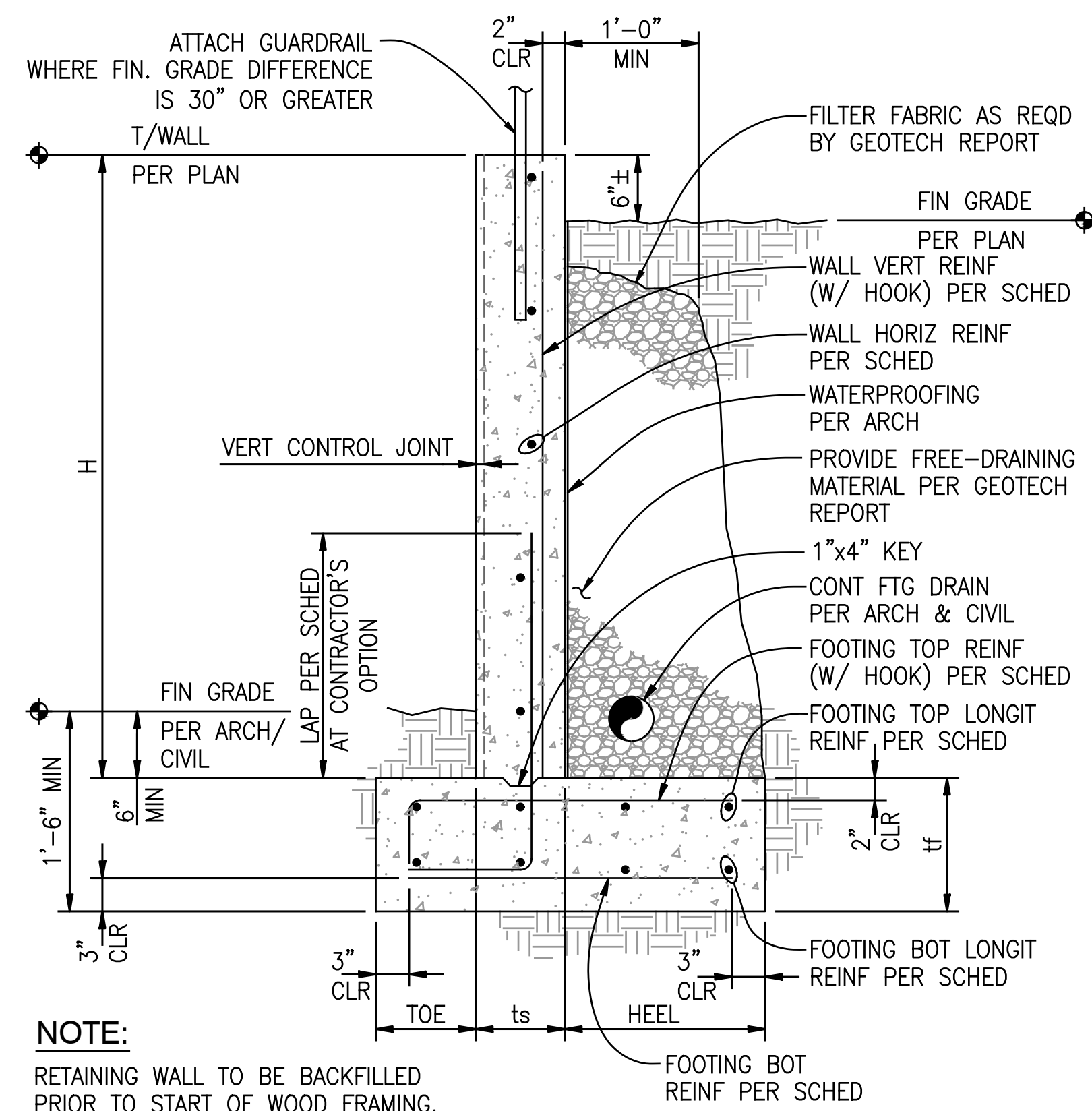
SHEET TITLE:
CIVIL DETAILS

SHEET NO.
C5.00



GUARDRAIL DETAIL
SCALE: N.T.S.

2
C5.01



CANTILEVERED SITE RETAINING WALL AND SCHEDULE
SCALE: N.T.S.

1
C5.01

H	WALL/FOOTING SIZES				WALL REINFORCEMENT		FOOTING REINFORCEMENT			
	TOE	ts	HEEL	tf	VERTICAL	HORIZONTAL	TOP	TOP/LONGIT	BOTTOM/LONGIT	BOTTOM
UP TO 5'-0"	9"	8"	1'-3"	12"	#4 @ 16"OC	#5 @ 18"OC	#5 @ 10"OC	(3) #4	(3) #4	#5 @ 10"OC

This Detail Drawing may not be altered or changed in any manner except by the City Engineer. It is the responsibility of the user to acquire the most current version.

DO NOT HEAVILY PRUNE THE TREE AT PLANTING. PRUNE ONLY CROSSOVER LIMBS, CO-DOMINANT LEADERS, AND BROKEN OR DEAD BRANCHES. SOME INTERIOR TWIGS AND LATERAL BRANCHES MAY BE PRUNED; HOWEVER, DO NOT REMOVE THE TERMINAL BUDS OF BRANCHES THAT EXTEND TO THE EDGE OF THE CROWN.

SEE TREE STAKING DETAIL FOR STAKING INSTRUCTIONS

MARK THE NORTH SIDE OF THE TREE IN THE NURSERY, AND ROTATE TREE TO FACE NORTH AT THE SITE WHEN EVER POSSIBLE.

SET TOP OF ROOT BALL FLUSH TO GRADE OR 25-50 MM (1-2 IN.) HIGHER IN SLOWLY DRAINING SOILS.

200 MM (8 IN.)

MULCH RING 1800 MM (6 FT.) DIAM. MIN. 2400 MM (8 FT.) DIAM. PREFERRED

EACH TREE MUST BE PLANTED SUCH THAT THE TRUNK FLARE IS VISIBLE AT THE TOP OF THE ROOT BALL. TREES WHERE THE TRUNK FLARE IS NOT VISIBLE SHALL BE REJECTED. DO NOT COVER THE TOP OF THE ROOT BALL WITH SOIL.

100 MM (4 IN.) HIGH EARTH SAUCER BEYOND EDGE OF ROOT BALL

REMOVE ALL TWINE, ROPE AND WIRE, AND BURP FROM TOP; HALF OF ROOT BALL

50 MM (2 IN.) MULCH; DO NOT PLACE MULCH IN CONTACT WITH TREE TRUNK. MAINTAIN THE MULCH WEED-FREE FOR A MINIMUM OF THREE YEARS AFTER PLANTING.

IF PLANT IS SHIPPED WITH A WIRE BASKET AROUND THE ROOT BALL, CUT THE WIRE BASKET IN FOUR PLACES AND FOLD DOWN 200 MM (8 IN.) INTO PLANTING HOLE.

PLACE ROOT BALL ON UNEXCAVATED OR TAMPED SOIL

TAMP SOIL AROUND ROOT BALL BASE FIRMLY WITH FOOT PRESSURE SO THAT ROOT BALL DOES NOT SHIFT. DO NOT TAMP OR STEP ON ROOT BALL

NOTE: FOR DIMENSIONS OF PLANTING AREAS, TYPES OF SOIL AMENDMENTS, OR SOIL REPLACEMENT, SEE "SOIL IMPROVEMENT DETAILS."

NOTE: WIDTH OF PLANTING HOLE IS 3 TIMES ROOT BALL DIAMETER IN HIGHLY COMPACTED SOIL; 2 TIMES THE ROOT BALL DIAMETER MINIMUM IN ALL OTHERS. THIS DETAIL ASSUMES THE PLANTING SPACE IS LARGER THAN 2400 MM (8 FT.) SQUARE, OPEN TO THE SKY, AND NOT COVERED BY ANY PAVING OR GRATING.

Tree Planting Detail - B & B Trees in all Soil Types			CITY OF WILSONVILLE PUBLIC WORKS STANDARDS
DRAWING NUMBER: P-5000	DRAWN BY: SJ	SCALE: N.T.S.	
FILE NAME: P-5000.dwg	APPROVED BY: SA	DATE: 3/22/06	

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GENERAL NOTES:

- PROVIDE PROTECTION FROM ALL VEHICLE TRAFFIC, EQUIPMENT STAGING, AND FOOT TRAFFIC IN PROPOSED INFILTRATION AREAS PRIOR TO, DURING AND AFTER CONSTRUCTION. UNLESS REQUIRED BY SITE CONDITIONS, UNLINED SWALES ARE PREFERRED TO ALLOW MAXIMUM INFILTRATION.
- DIMENSIONS:
 - DEPTH OF SWALE (FROM TOP OF GROWING MEDIUM TO OVERFLOW ELEVATION): 12"
 - LONGITUDINAL SLOPE OF SWALE: 0.0% OR LESS
 - FLAT BOTTOM WIDTH: 2' MINIMUM
 - SIDE SLOPES OF SWALE: 3:1 MAXIMUM
- LOCATION/SETBACKS:
 - FILTRATION SWALES SHALL BE 10' FROM FOUNDATIONS AND 5' FROM PROPERTY LINES UNLESS APPROVED BY BUILDING OFFICIAL
 - INLET ELEVATION SHALL ALLOW FOR 4" OF FREEBOARD, MINIMUM.
 - PROTECT FROM DEBRIS AND SEDIMENT WITH STRAINER OR GRATE.
- PIPING:
 - PERFORATED UNDER-DRAIN PIPING: SHALL BE ABS SCH. 40, CAST IRON, OR PVC SCH. 40. MINIMUM DIAMETER IS 6". PIPING SHALL HAVE 1% GRADE AND FOLLOW THE UNIFORM PLUMBING CODE. PVC NOT ALLOWED ABOVE GROUND.
 - OVERFLOW PIPING: SHALL BE ABS SCH. 40, CAST IRON, OR PVC SCH. 40 AND SHALL NOT BE PERFORATED. MINIMUM DIAMETER IS 6". PIPING SHALL HAVE 1% GRADE AND FOLLOW THE UNIFORM PLUMBING CODE. PVC NOT ALLOWED ABOVE GROUND.
- DRAIN ROCK:
 - SIZE: 1/2" - 3/4" WASHED
 - DEPTH: 12"
- SEPARATION BETWEEN DRAIN ROCK AND GROWING MEDIUM: SHALL BE A 3" LAYER OF 3/4" - 1/4" OPEN GRADED AGGREGATE.
- GROWING MEDIUM:
 - 2" MINIMUM
 - SEE APPENDIX C FOR SPECIFICATION OR USE SAND/LOAM/COMPOST 3-WAY MIX.
 - FACILITY SURFACE AREA MAY BE REDUCED BY 25% WHEN GROWING MEDIA DEPTH IS INCREASED TO 30" OR MORE.
- VEGETATION: FOLLOW LANDSCAPE PLANS OR REFER TO PLANTING REQUIREMENTS IN APPENDIX A.
- WATERPROOF LINER (IF REQUIRED): SHALL BE 50 MIL PVC OR EQUIVALENT.
- INSTALL RIVER ROCK SPLASH PAD OVER A NON WOVEN GEO TEXTILE FABRIC TO TRANSITION FROM INLETS TO GROWING MEDIUM. SIZE OF ROCK SHALL BE 1" TO 3", 4 SQUARE FEET, 6" DEEP.
- CHECK DAMS SHALL BE PLACED ACCORDING TO FACILITY DESIGN. REFER TO DETAIL ST-6100 FOR PROFILE AND SPACING.
- SEASONAL HIGH GROUNDWATER SEPARATION:
 - SEPARATION DISTANCE AS REQUIRED BY CITY.

Vegetated Swale - Filtration			CITY OF WILSONVILLE PUBLIC WORKS STANDARDS
DRAWING NUMBER: ST-6045	DRAWN BY: SR	SCALE: N.T.S.	
FILE NAME: ST-6045.DWG	APPROVED BY: NK	DATE: 4/16/18	

PREPARED BY:

SIGNATURE:

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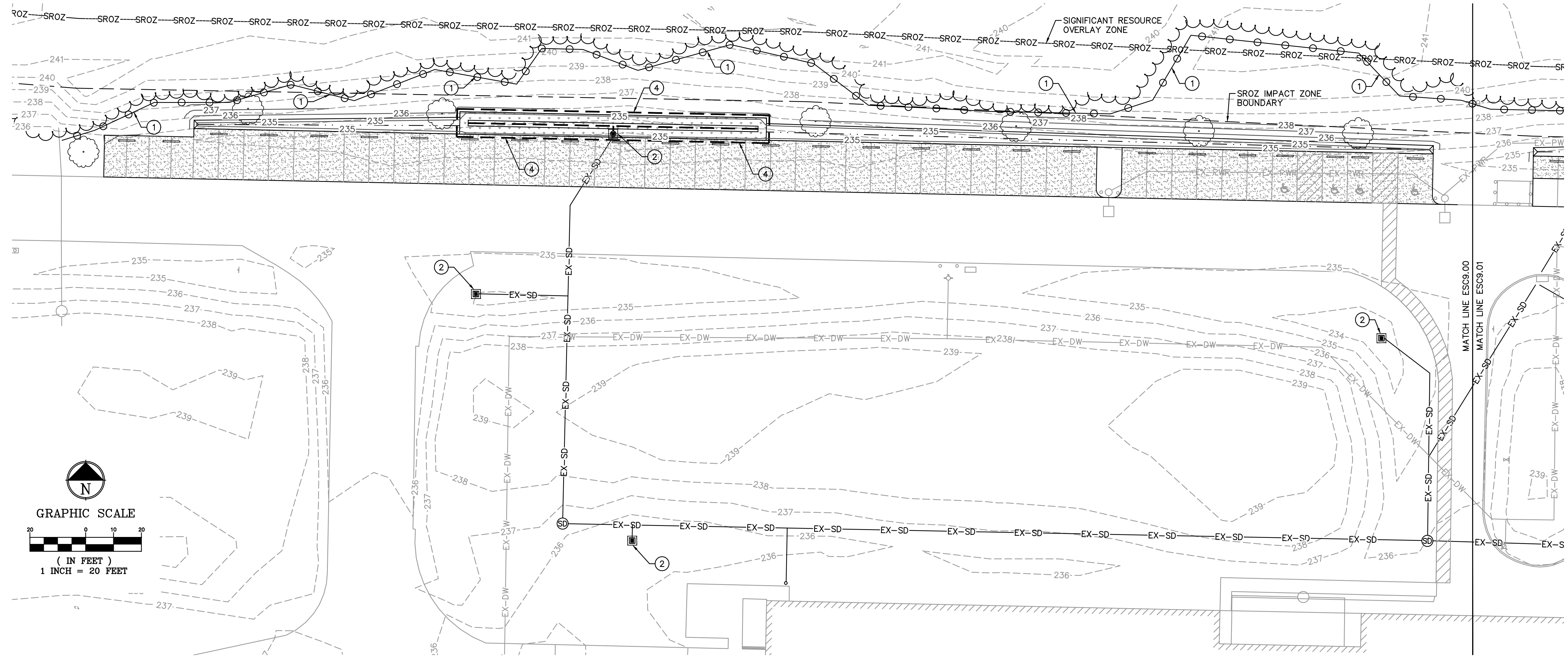
APPROVALS:

Job No.: 21032-0041
 Proj. Manager: RUL
 Designed: KLE
 Reviewed: RUL
 Drawn: KLE
 Dwg. Checked: RUL
 Scale: AS SHOWN

PROJECT TITLE:
ESS INC. SITE IMPROVEMENTS

SHEET TITLE:
CIVIL DETAILS

SHEET NO.
C5.01



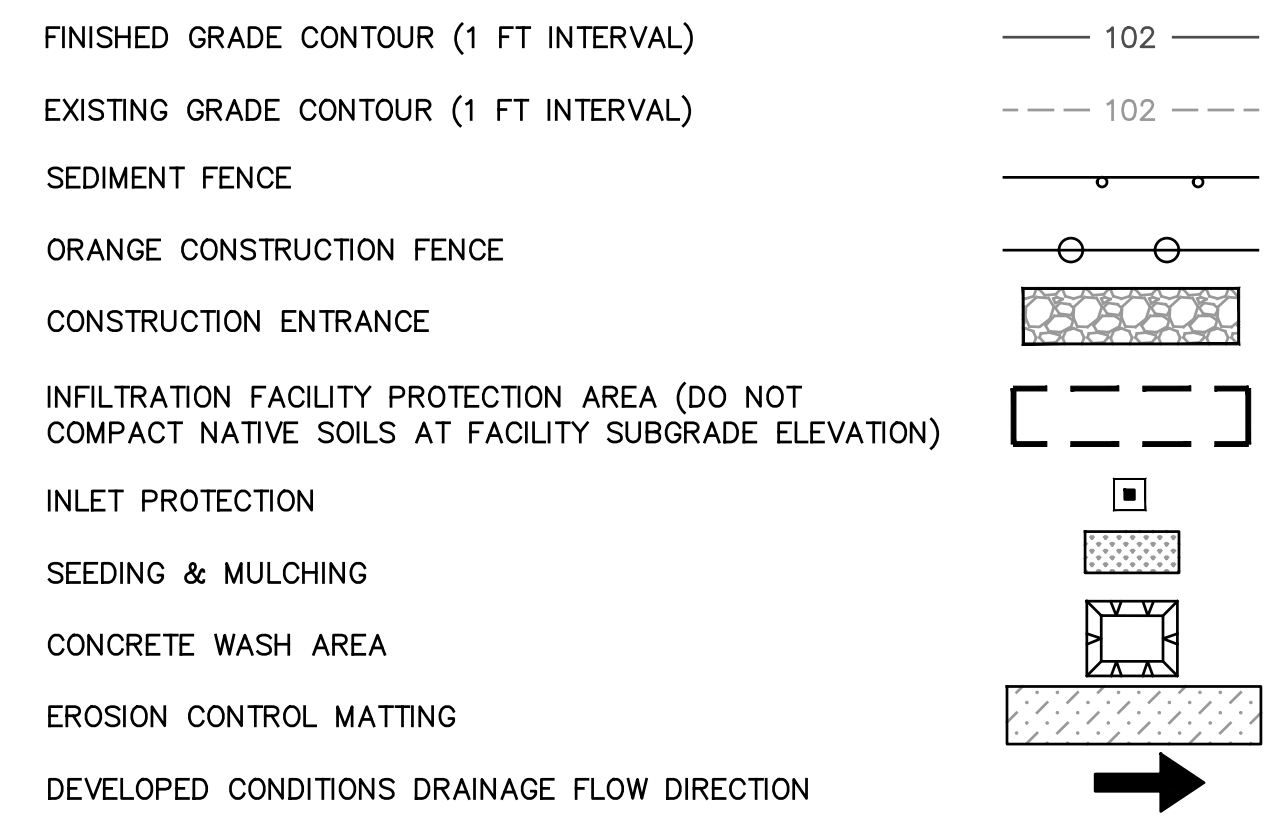
EROSION AND SEDIMENT CONTROL GENERAL NOTES:

1. ALL BASE EROSION CONTROL MEASURES (INLET PROTECTION, PERIMETER SEDIMENT CONTROL, GRAVEL CONSTRUCTION ENTRANCES, ETC.) MUST BE IN PLACE, FUNCTIONAL, AND APPROVED IN AN INITIAL INSPECTION PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES.
2. SEDIMENT BARRIERS APPROVED FOR USE INCLUDE SEDIMENT FENCE, BERMS CONSTRUCTED OUT OF MULCH, CHIPPINGS, OR OTHER SUITABLE MATERIAL, STRAW WATTLES, OR OTHER APPROVED MATERIALS.
3. SENSITIVE RESOURCES, INCLUDING BUT NOT LIMITED TO, TREES, WETLANDS, AND RIPARIAN PROTECTION AREAS SHALL BE CLEARLY DELINEATED WITH ORANGE CONSTRUCTION FENCING OR CHAIN LINK FENCING IN A MANNER THAT IS CLEARLY VISIBLE TO ANYONE IN THE AREA. NO ACTIVITIES ARE PERMITTED TO OCCUR BEYOND THE CONSTRUCTION BARRIER.
4. CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT THE BEGINNING ON CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES INCLUDE, BUT ARE NOT LIMITED TO, STREET SWEEPING AND VACUUMING, MAY BE REQUIRED TO INSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.
5. RUN-ON AND RUN-OFF CONTROLS SHALL BE IN PLACE AND FUNCTIONING PRIOR TO BEGINNING SUBSTANTIAL CONSTRUCTION ACTIVITIES. RUN-ON AND RUNOFF CONTROL MEASURES INCLUDE, BUT ARE NOT LIMITED TO, SLOPE DRAINS (WITH OUTLET PROTECTION), CHECK DAMS, SURFACE ROUGHENING, AND BANK STABILIZATION.
6. THESE EROSION AND SEDIMENT CONTROL PLANS ASSUME "DRY WEATHER" CONSTRUCTION. "WET WEATHER" MEASURES NEED TO BE APPLIED BETWEEN OCTOBER 1ST AND MAY 31ST.

(X) EROSION AND SEDIMENT CONTROL KEYNOTES:

1. INSTALL AND MAINTAIN TEMPORARY 6' TALL CHAIN LINK TREE PROTECTION FENCE PER CITY OF WILSONVILLE DRAWING NUMBER RD-1230, SHEET ESC9.10. LOCATION OF FENCE SHALL BE INSTALLED AT THE TREE DRIP LINE. VERIFY TREE DRIP LINE IN THE FIELD PRIOR TO INSTALLING TREE PROTECTION FENCE. NO CONSTRUCTION ACTIVITIES OR MATERIAL STORAGE SHALL OCCUR WITHIN THE TREE PROTECTION ZONE.
2. INSTALL STORMWATER INLET PROTECTION PER CLACKAMAS COUNTY DETAIL DRAWING 4-18/ESC9.10.
3. INSTALL CONCRETE WASHOUT PER DETAIL 1/ESC9.10.
4. PROTECT STORMWATER SWALE FACILITY AREA. DO NOT COMPACT SOILS WITHIN STORMWATER FACILITY AREAS. STORMWATER AREAS SHALL PRESERVE EXISTING SOIL DENSITY BY LIMITING HEAVY MACHINERY AND VEHICLE TRACKING, AND STORAGE SHALL NOT OCCUR WITHIN THESE AREAS.

EROSION AND SEDIMENT CONTROL LEGEND



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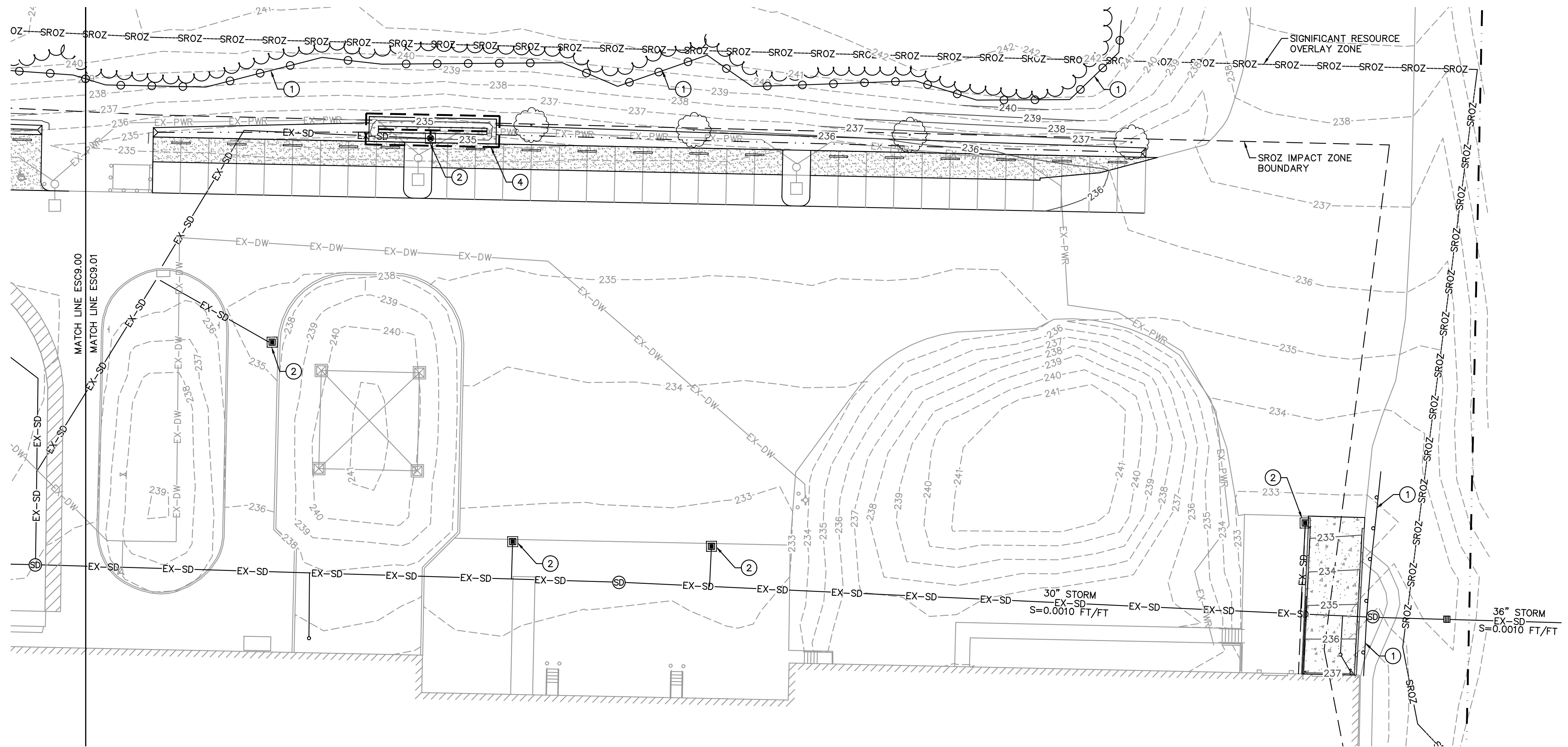
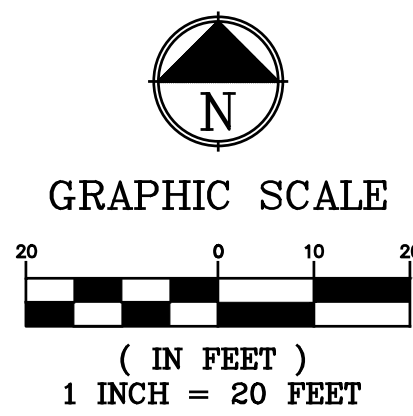
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Dwg. Checked:	RJL
Scale:	AS SHOWN

PROJECT TITLE:
ESS INC. SITE IMPROVEMENTS

SHEET TITLE:
EROSION AND SEDIMENT CONTROL PLAN - WEST

SHEET NO.
ESC9.00



EROSION AND SEDIMENT CONTROL GENERAL NOTES:

- ALL BASE EROSION CONTROL MEASURES (INLET PROTECTION, PERIMETER SEDIMENT CONTROL, GRAVEL CONSTRUCTION ENTRANCES, ETC.) MUST BE IN PLACE, FUNCTIONAL, AND APPROVED IN AN INITIAL INSPECTION PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES.
- SEDIMENT BARRIERS APPROVED FOR USE INCLUDE SEDIMENT FENCE, BERMS CONSTRUCTED OUT OF MULCH, CHIPPINGS, OR OTHER SUITABLE MATERIAL, STRAW WATTLES, OR OTHER APPROVED MATERIALS.
- SENSITIVE RESOURCES, INCLUDING BUT NOT LIMITED TO, TREES, WETLANDS, AND RIPARIAN PROTECTION AREAS SHALL BE CLEARLY DELINEATED WITH ORANGE CONSTRUCTION FENCING OR CHAIN LINK FENCING IN A MANNER THAT IS CLEARLY VISIBLE TO ANYONE IN THE AREA. NO ACTIVITIES ARE PERMITTED TO OCCUR BEYOND THE CONSTRUCTION BARRIER.
- CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES INCLUDE, BUT ARE NOT LIMITED TO, STREET SWEEPING AND VACUUMING, MAY BE REQUIRED TO INSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.
- RUN-ON AND RUN-OFF CONTROLS SHALL BE IN PLACE AND FUNCTIONING PRIOR TO BEGINNING SUBSTANTIAL CONSTRUCTION ACTIVITIES. RUN-ON AND RUNOFF CONTROL MEASURES INCLUDE, BUT ARE NOT LIMITED TO, SLOPE DRAINS (WITH OUTLET PROTECTION), CHECK DAMS, SURFACE ROUGHENING, AND BANK STABILIZATION.
- THESE EROSION AND SEDIMENT CONTROL PLANS ASSUME "DRY WEATHER" CONSTRUCTION. "WET WEATHER" MEASURES NEED TO BE APPLIED BETWEEN OCTOBER 1ST AND MAY 31ST.

(X) EROSION AND SEDIMENT CONTROL KEYNOTES:

- INSTALL AND MAINTAIN TEMPORARY 6' TALL CHAIN LINK TREE PROTECTION FENCE PER CITY OF WILSONVILLE DRAWING NUMBER RD-1230, SHEET ESC9.10. LOCATION OF FENCE SHALL BE INSTALLED AT THE TREE DRIP LINE. VERIFY TREE DRIP LINE IN THE FIELD PRIOR TO INSTALLING TREE PROTECTION FENCE. NO CONSTRUCTION ACTIVITIES OR MATERIAL STORAGE SHALL OCCUR WITHIN THE TREE PROTECTION ZONE.
- INSTALL STORMWATER INLET PROTECTION PER CLACKAMAS COUNTY DETAIL DRAWING 4-18/ESC9.10.
- INSTALL CONCRETE WASHOUT PER DETAIL 1/ESC9.10.
- PROTECT STORMWATER SWALE FACILITY AREA. DO NOT COMPACT SOILS WITHIN STORMWATER FACILITY AREAS. STORMWATER AREAS SHALL PRESERVE EXISTING SOIL DENSITY BY LIMITING HEAVY MACHINERY AND VEHICLE TRACKING, AND STORAGE SHALL NOT OCCUR WITHIN THESE AREAS.

EROSION AND SEDIMENT CONTROL LEGEND

FINISHED GRADE CONTOUR (1 FT INTERVAL)	— 102 —
EXISTING GRADE CONTOUR (1 FT INTERVAL)	- - - 102 - - -
SEDIMENT FENCE	— ○ —
ORANGE CONSTRUCTION FENCE	— ○ —
CONSTRUCTION ENTRANCE	▒
INFILTRATION FACILITY PROTECTION AREA (DO NOT COMPACT NATIVE SOILS AT FACILITY SUBGRADE ELEVATION)	▒
INLET PROTECTION	■
SEEDING & MULCHING	▒
CONCRETE WASH AREA	▒
EROSION CONTROL MATTING	▒
DEVELOPED CONDITIONS DRAINAGE FLOW DIRECTION	➔

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 EXPIRES: 12/31/2022

REVISIONS:

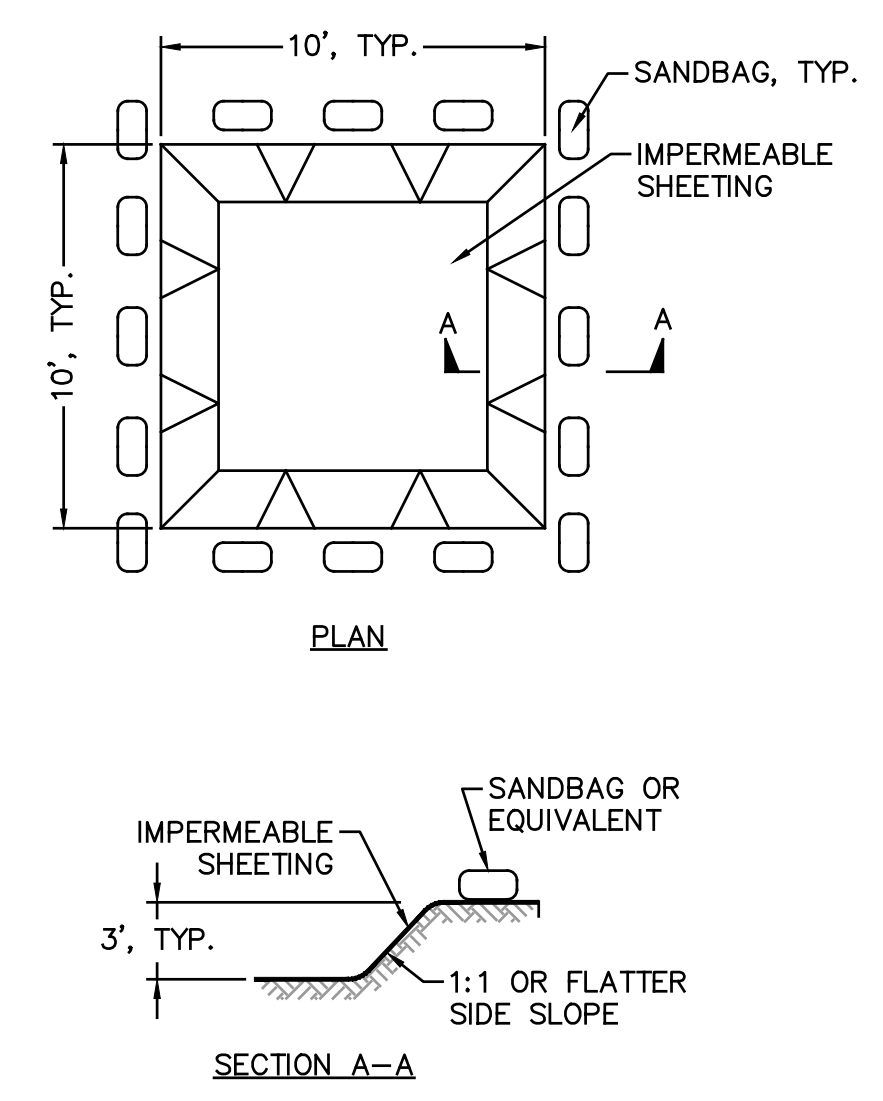
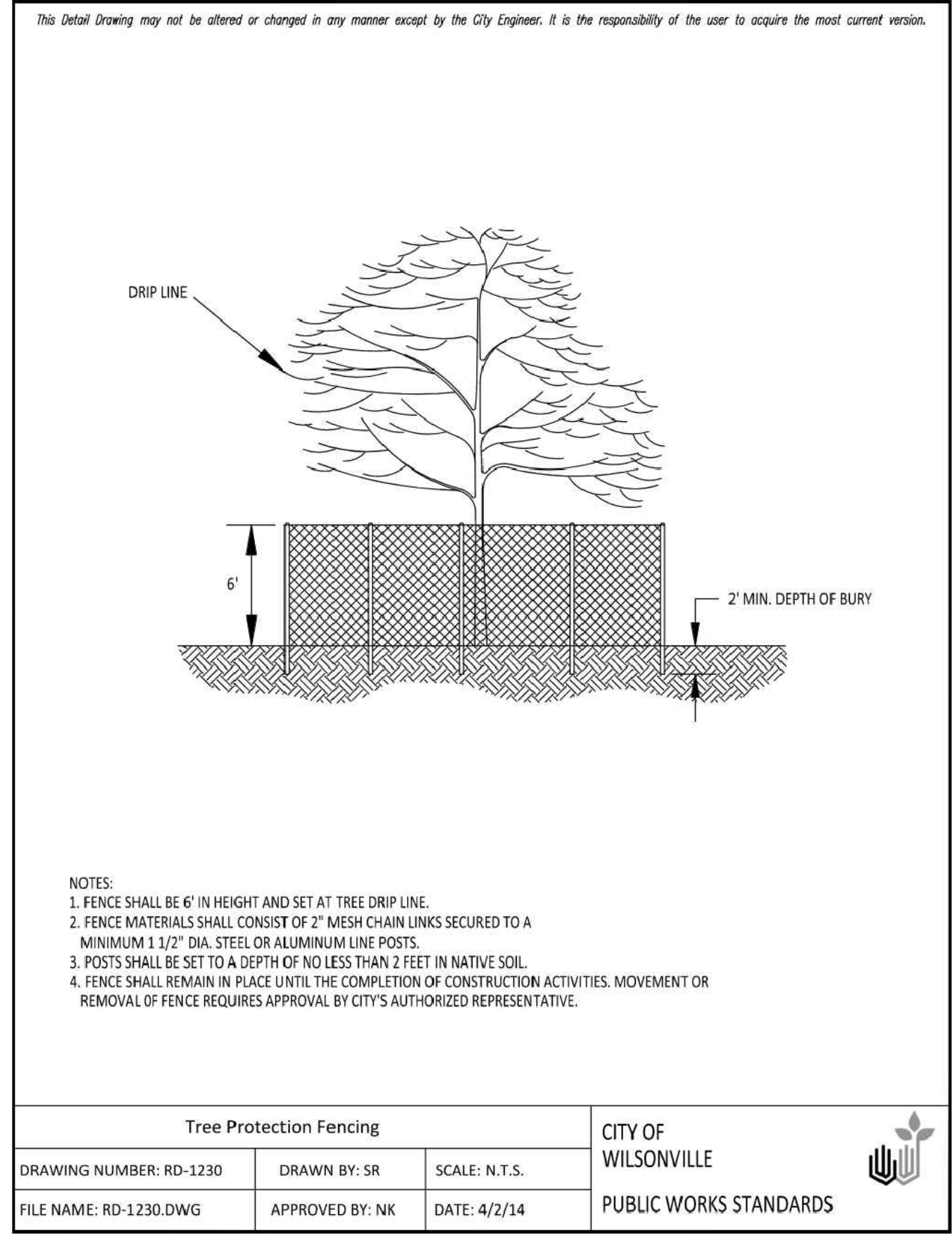
APPROVALS:
 Job No.: 21032-0041
 Proj. Manager: R.J.L.
 Designed: K.L.E.
 Reviewed: R.L.L.
 Drawn: K.L.E.
 Dwg. Checked: R.J.L.
 Scale: AS SHOWN

PROJECT TITLE:
ESS INC. SITE IMPROVEMENTS

SHEET TITLE:
EROSION AND SEDIMENT CONTROL PLAN - EAST

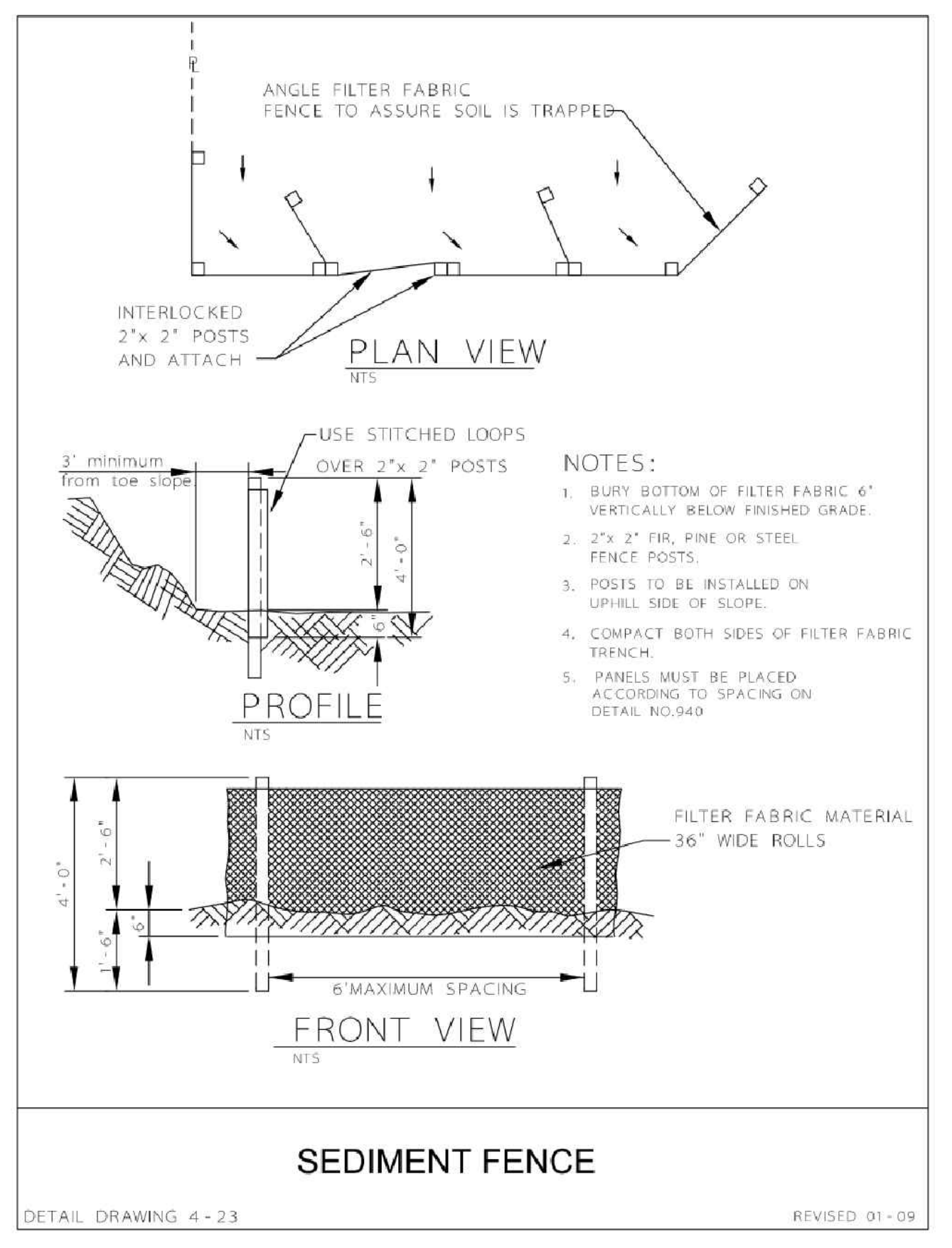
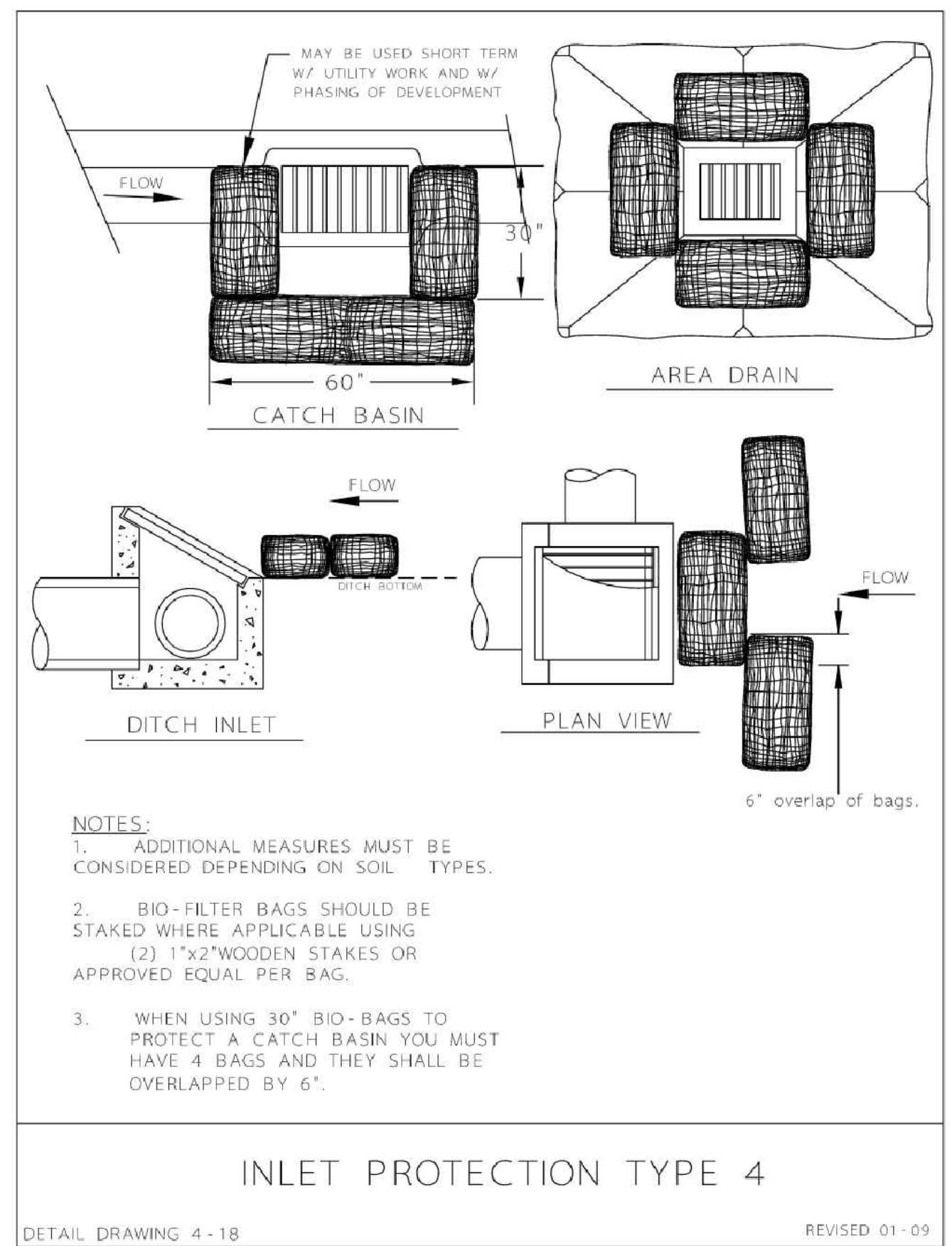
SHEET NO.
ESC9.01

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 Plot Date: 2022-12-15
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- CONCRETE WASHOUT NOTES:**
- SIGNS SHALL BE PLACED AT THE CONSTRUCTION ENTRANCE, AT THE WASHOUT AREA, AND ELSEWHERE AS NECESSARY TO CLEARLY INDICATE THE LOCATION OF THE CONCRETE WASHOUT AREA TO OPERATORS OF CONCRETE TRUCKS AND PUMP RIGS.
 - ACTUAL LAYOUT WILL BE DETERMINED IN THE FIELD.
 - REMOVABLE RAIN COVER REQUIRED DURING WET WEATHER SEASON.

CONCRETE WASHOUT DETAIL
 SCALE: N.T.S.



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SIGNATURE:

 REGISTERED PROFESSIONAL ENGINEER
 STATE OF OREGON
 JULY 15, 2003
 ROBERT JAMES STEFF
 EXPIRES: 12/31/2022

REVISIONS:

APPROVALS:
 Job No.: 21032-0041
 Proj. Manager: RJJ
 Designed: KLE
 Reviewed: RJJ
 Drawn: KLE
 Dwg. Checked: RJJ
 Scale: AS SHOWN

ESS INC. SITE IMPROVEMENTS

PROJECT TITLE:

EROSION AND
 SEDIMENT CONTROL
 DETAILS

SHEET TITLE:

ESC9.10

SHEET NO.: