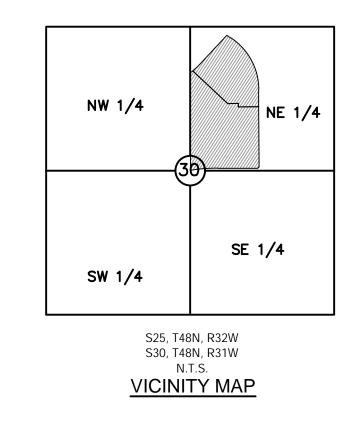
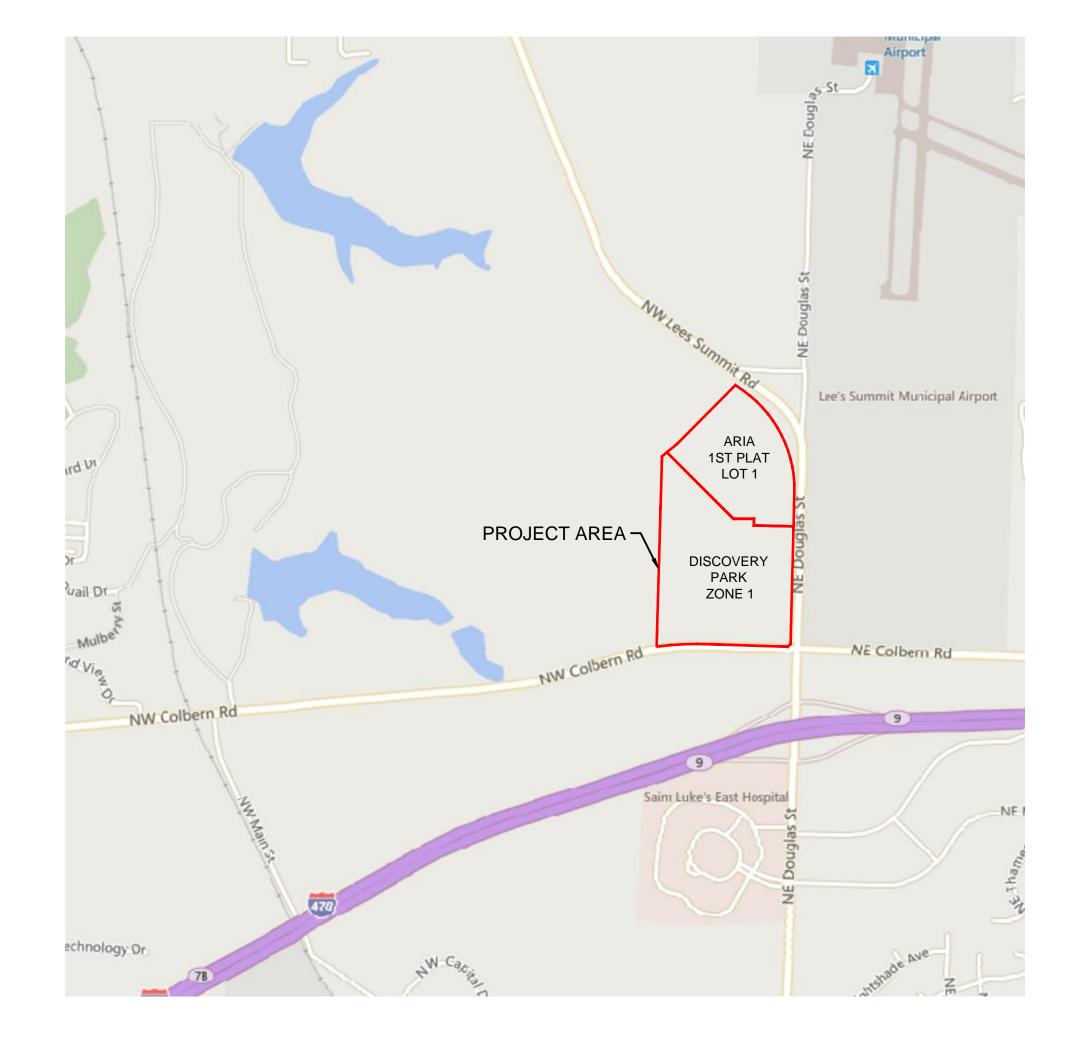
RELEASED FOR CONSTRUCTION
As Noted on Plan Review

Development Services Departmer Lee's Summit, Missouri 10/25/2023

SECTION 25, TOWNSHIP 48N, RANGE 32W SECTION 30, TOWNSHIP 48N, RANGE 31W IN LEE'S SUMMIT, JACKSON COUNTY, MO



| PROJECT TEAM & UTILITY CONTACT LIS | ST |
|--|---|
| OWNER/DEVELOPER INTRINSIC DEVELOPMENT 3622 ENDEAVOR AVE. STE. 101 COLUMBIA, MO 65201 CONTACT: JOHN ODLE PHONE: 573.615.2252 | UTILITY SERVICE NUMBERS NAME: LEE'S SUMMIT PUBLIC WORKS PHONE: 816-969-1800 NAME: LEE'S SUMMIT WATER UTILITIES PHONE: 816-969-1900 NAME: SPIRE |
| ENGINEER OLSSON 1301 BURLINGTON, SUITE 100 NORTH KANSAS CITY, MO 64116 CONTACT: DAVID EICKMAN PHONE: 816.854.9315 EMAIL: DEICKMAN@OLSSON.COM | NAME: SPIRE PHONE: 314-342-0500 NAME: AT&T PHONE: 800-286-8313 NAME: EVERGY PHONE: 816-471-5275 NAME: SPECTRUM |
| SURVEYOR OLSSON 1301 BURLINGTON, SUITE 100 NORTH KANSAS CITY, MO 64116 CONTACT: JASON ROUDEBUSH PHONE: 816.361.1177 EMAIL: JROUDEBUSH@OLSSON.COM | PHONE: 877-772-2253 NAME: GOOGLE FIBER PHONE: 877-454-6959 |



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OIL/GAS WELLS:

NO OIL OR GAS WELLS ARE LOCATED WITHIN PROJECT LIMITS.
INFORMATION OBTAINED FROM THE MISSOURI DEPARTMENT OF NATURAL RESOURCES,
GEOLOGICAL SURVEY GEOSCIENCES TECHNICAL RESOURCE ASSESSMENT TOOL (GEOSTRAT).

FLOOD CERTIFICATION:

THE ENTIRE SITE IS LOCATED WITHIN ZONE X, "AREAS OF 0.2% ANNUAL CHANCE FLOOD; AREAS OF 1% ANNUAL CHANCE FLOOD WITH AVERAGE DEPTHS OF LESS THAN 1 FOOT OR WITH DRAINAGE AREAS LESS THAN 1 SQUARE MILE; AND AREAS PROTECTED BY LEVEES FROM THE 1% ANNUAL CHANCE FLOOD" AS DEPICTED ON THE FEMA FLOOD INSURANCE RATE MAP (FIRM) MAP NUMBER 29095C0409G, REVISION DATE JANUARY 20, 2017.

PROPERTY DESCRIPTION

SQUARE FEET OR 39.42 ACRES, MORE OR LESS.

ARIA FIRST PLAT LOT 1:

AS PROVIDED BY STEWART TITLE GUARANTY COMPANY:

TRACT OF LAND IN THE NORTHEAST QUARTER OF SECTION 30 TOWNSHIP 48 NORTH, RANGE 31 WEST OF THE 5TH PRINCIPAL MERIDIAN IN LEE'S SUMMIT, JACKSON COUNTY, MISSOURI BEING BOUNDED AND DESCRIBED AS FOLLOWS: COMMENCING AT THE NORTHWEST CORNER OF SAID NORTHEAST QUARTER SECTION; THENCE SOUTH 01 DEGREES 37 MINUTES 50 SECONDS WEST, ON THE WEST LINE OF SAID QUARTER SECTION, 853.75 FEET TO A POINT ON THE SOUTHEAST LOT LINE OF LOT 1, LEE'S SUMMIT ROAD PUMP STATION, A SUBDIVISION RECORDED IN BOOK I 51 AT PAGE

90 IN THE JACKSON COUNTY RECORDER OF DEEDS OFFICE; THENCE NORTH 50 DEGREES 41 MINUTES 15 SECONDS EAST, ON SAID SOUTHEAST LOT LINE, 59.22 FEET; TO THE POINT OF BEGINNING OF THE TRACT OF LAND TO BE HEREIN DESCRIBED; THENCE CONTINUING NORTH 50 DEGREES 41 MINUTES 15 SECONDS EAST ALONG SAID LINE, 116.89 FEET; THENCE NORTH 44 DEGREES 49 MINUTES 51 SECONDS EAST, 792.38 FEET TO A POINT ON THE WESTERLY RIGHT—OF—WAY LINE OF NW LEE'S SUMMIT ROAD AS ESTABLISHED BY DOCUMENT NUMBER 2015E0017982 IN THE JACKSON COUNTY RECORDER OF DEEDS OFFICE; THENCE ON SAID WESTERLY RIGHT—OF—WAY LINE, SOUTH 54 DEGREES 34 MINUTES 12 SECONDS EAST, 95.69 FEET; THENCE SOUTHEASTERLY ALONG A CURVE TO THE RIGHT BEING TANGENT TO THE LAST DESCRIBED COURSE WITH A RADIUS OF 1,142.00 FEET, A CENTRAL ANGLE OF 56 DEGREES 01 MINUTES 43 SECONDS AND AN ARC DISTANCE OF 1,116.74 FEET; THENCE SOUTH 01 DEGREES 27 MINUTES 31 SECONDS WEST, 322.27 FEET; THENCE LEAVING SAID RIGHT—OF—WAY LINE, NORTH 88 DEGREES 32 MINUTES 29 SECONDS WEST, 375.74 FEET; THENCE NORTH 01 DEGREES 27 MINUTES 27 SECONDS EAST, 62.94 FEET; THENCE SOUTH 90 DEGREES 00 MINUTES 00 SECONDS WEST, 195.68 FEET; THENCE NORTH 45 DEGREES 00 MINUTES 00 SECONDS WEST, 889.18 FEET TO THE POINT OF BEGINNING, CONTAINING 979,968 SQUARE FEET OR 22.50 ACRES, MORE OR LESS

DISCOVERY PARK ZONE 1:

A TRACT OF LAND IN THE NORTHEAST QUARTER OF SECTION 30 TOWNSHIP 48 NORTH, RANGE 31 WEST OF THE 5TH PRINCIPAL MERIDIAN IN LEE'S SUMMIT, JACKSON COUNTY, MISSOURI BEING BOUNDED AND DESCRIBED AS FOLLOWS: COMMENCING AT THE NORTHWEST CORNER OF SAID NORTHEAST QUARTER SECTION; THENCE SOUTH 01'37'50" WEST, ON THE WEST LINE OF SAID QUARTER SECTION, 853.75 FEET TO A POINT ON THE SOUTHEAST LOT LINE OF LOT 1, LEE'S SUMMIT ROAD PUMP STATION, A SUBDIVISION RECORDED IN BOOK I 51 AT PAGE 90 IN THE JACKSON COUNTY RECORDER OF DEEDS OFFICE, AND THE POINT OF BEGINNING OF THE TRACT OF LAND TO BE HEREIN DESCRIBED; THENCE NORTH 50'41'15" EAST, ON SAID SOUTHEAST LOT LINE, 59.22 FEET; THENCE LEAVING SAID LOT LINE, SOUTH 45'00'00" EAST, 889.18 FEET; THENCE NORTH 90'00'00" EAST, 195.68 FEET; THENCE SOUTH 01'27'27" WEST, 62.94 FEET; THENCE SOUTH 88'32'29" EAST, 375.74 FEET TO A POINT ON THE WESTERLY RIGHT—OF—WAY LINE OF NE DOUGLAS STREET AS ESTABLISHED BY DOCUMENT NUMBER 2015E0017982 IN THE JACKSON COUNTY RECORDER OF DEEDS OFFICE; THENCE ON SAID WESTERLY RIGHT—OF—WAY LINE, SOUTH 01'27'31" WEST, 1,114.58 FEET; THENCE SOUTH 46'40'17' WEST, 35.22 FEET TO THE INTERSECTION OF THE NORTHERLY RIGHT—OF—WAY LINE OF NE COLBURN ROAD AS ESTABLISHED BY A SURVEY PROVIDED BY HAMILTON STERRETT AND DOOLEY, PROJECT NUMBER 99021; THENCE ON SAID NORTHERLY RIGHT—OF—WAY LINE NORTH 88'06'56" WEST, 730.85 FEET; THENCE WESTERLY ALONG A CURVE TO THE LEFT HAVING AN INITIAL TANGENT BEARING OF NORTH 87'33'04" WEST WITH A RADIUS OF 2,904.93 FEET, A CENTRAL ANGLE OF 10'06'02" AND AN ARC DISTANCE OF 512.10 FEET TO THE SOUTHWEST CORNER OF THE SAID NORTHEAST QUARTER; THENCE NORTH 01'37'22" EAST, ON THE WEST LINE OF THE NORTHWEST CORNER OF THE SOUTHWEST QUARTER OF THE SAID NORTHEAST QUARTER; THENCE CONTINUING ON THE SAID NORTHEAST QUARTER; THENCE CONTINUING ON THE SAID NORTHEAST QUARTER; THENCE CONTINUING ON THE SAID NORTHEAST QUARTER; THENCE CONTINUING ON THE SAID WEST LINE, NORTH 01'37'50" EAST, 473.96 FEET TO THE POINT OF BEGINNING. CONTAINING 1,71

PL2023146 PRSUBD20232726



- Civil Engineering ri Certificate of Authority #001592

DAVID L.

EICKMAN

NUMBER

PE-2009015436

DAVID EICKMAN, P.E.

MO# 2009015436

| REV. | DATE | REVISIONS DESCRIPTION | BY | 10/11/2023 | RFI-SURVEY CONTROL | | 10/11/2023 | RFI-SURVEY CONTROL | | 10/11/2023 | RFI-SURVEY CONTROL | | 10/11/2023 | RFI-SURVEY CONTROL | | 10/11/2023 | RFI-SURVEY CONTROL | | 10/11/2023 | RFI-SURVEY CONTROL | | 10/11/2023 | RFI-SURVEY CONTROL | | 10/11/2023 | RFI-SURVEY CONTROL | | 10/11/2023 | RFI-SURVEY CONTROL | | 10/11/2023 | RFI-SURVEY CONTROL | | 10/11/2023 | RFI-SURVEY CONTROL | | 10/11/2023 | RFI-SURVEY CONTROL | | 10/11/2023 | RFI-SURVEY CONTROL | | 10/11/2023 | RFI-SURVEY CONTROL | | 10/11/2023 | RFI-SURVEY CONTROL | | 10/11/2023 | RFI-SURVEY CONTROL | | 10/11/2023 | RFI-SURVEY CONTROL | | 10/11/2023 | RFI-SURVEY CONTROL | | 10/11/2023 | RFI-SURVEY CONTROL | | 10/11/2023 | RFI-SURVEY CONTROL | | 10/11/2023 | RFI-SURVEY CONTROL | | 10/11/2023 | RFI-SURVEY CONTROL | | 10/11/2023 | RFI-SURVEY CONTROL | | 10/11/2023 | RFI-SURVEY CONTROL | | 10/11/2023 | RFI-SURVEY CONTROL | | 10/11/2023 | RFI-SURVEY CONTROL | | 10/11/2023 | RFI-SURVEY CONTROL | | 10/11/2023 | RFI-SURVEY CONTROL | | 10/11/2023 | RFI-SURVEY CONTROL | | 10/11/2023 | RFI-SURVEY CONTROL | | 10/11/2023 | RFI-SURVEY CONTROL | | 10/11/2023 | RFI-SURVEY CONTROL | | 10/11/2023 | RFI-SURVEY CONTROL | | 10/11/2023 | RFI-SURVEY CONTROL | | 10/11/2023 | RFI-SURVEY CONTROL | | 10/11/2023 | RFI-SURVEY CONTROL | | 10/11/2023 | RFI-SURVEY CONTROL | | 10/11/2023 | RFI-SURVEY CONTROL | | 10/11/2023 | RFI-SURVEY CONTROL | | 10/11/2023 | RFI-SURVEY CONTROL | | 10/11/2023 | RFI-SURVEY CONTROL | | 10/11/2023 | RFI-SURVEY CONTROL | | 10/11/2023 | RFI-SURVEY CONTROL | | 10/11/2023 | RFI-SURVEY CONTROL | | 10/11/2023 | RFI-SURVEY CONTROL | | 10/11/2023 | RFI-SURVEY CONTROL | | 10/11/2023 | RFI-SURVEY CONTROL | | 10/11/2023 | RFI-SURVEY CONTROL | | 10/11/2023 | RFI-SURVEY CONTROL | | 10/11/2023 | RFI-SURVEY CONTROL | | 10/11/2023 | RFI-SURVEY CONTROL | | 10/11/2023 | RFI-SURVEY CONTROL | | 10/11/2023 | RFI-SURVEY CONTROL | | 10/11/2023 | RFI-SURVEY CONTROL | | 10/11/2023 | RFI-SURVEY CONTROL | | 10/11/2023 | RFI-SURV

SEDIMENT CONTROL PLANS
ZONE 1 & ARIA APARTMENTS
IE DOUGLAS ST

GRADING & EROSION AND SEDIMENT C LAGE AT DISCOVERY PARK ZONE 1 & A NW COLBERN RD & NE DOUGLAS

drawn by: GS/OS/A
checked by: AR/A
approved by: GA/QC by: JS/N

drawing no.: C_TTL01_D2104643

REV. DATE REVISIONS DESCRIPTION BY 10/11/2023 REVISED PER CITY COMMENTS

RAL NOTES
AND SEDIMENT CONTROL PLANS
PARK ZONE 1 & ARIA APARTMENTS
SD & NE DOUGLAS ST

GENERAL NOTES
SS GRADING & EROSION AND SEDIMENT CO

drawn by: GS/OS/JN
checked by: AR/JN
approved by: DE
QA/QC by: JS/NH
project no.: D21-04643
drawing no.: C GEN01_D2104643
date: 10.17.2023

SHEET C301

GENERAL NOTES

- 1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT THE PLANS IN THEIR POSSESSION ARE THE MOST CURRENT VERSION ISSUED, ARE FULLY COORDINATED WITH ALL SUBCONTRACTORS, AND PRESENT ON SITE AT ALL TIMES. CURRENT PLANS PREPARED BY OLSSON MAY BE OBTAINED AT THE DIRECTION OF OLSSON'S CLIENT. DIRECT REQUESTS TO OLSSON MAY REQUIRE ADDITIONAL AUTHORIZATIONS, AGREEMENTS, AND/OR FEES. PLEASE CONTACT THE ENGINEER FOR INFORMATION.
- 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DEVIATIONS FROM THESE PLANS UNLESS WRITTEN APPROVAL FROM ENGINEER, OWNER, AND DEVELOPER.
- 3. ALL WORK AND MATERIALS SHALL BE SUBJECT TO INSPECTION AND APPROVAL BY THE OWNER OR THE OWNER'S REPRESENTATIVE.
- 4. ALL ESTIMATES OF QUANTITIES ARE FOR INFORMATIONAL PURPOSES ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING QUANTITIES AND ITEMS OF WORK
- 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL LABOR, MATERIALS, AND EQUIPMENT REQUIRED TO COMPLETE THE WORK SHOWN IN THE PLANS.
- 6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS, PAYING ALL FEES, AND FOR OTHERWISE COMPLYING WITH ALL APPLICABLE REGULATIONS GOVERNING THE WORK.
- 7. THE CONTRACTOR SHALL NOT ENGAGE IN ACTIVITIES THAT MAY ENCROACH ON WATERS OF THE U.S., INCLUDING WETLANDS, UNTIL ANY NECESSARY PERMITS MAY BE OBTAINED. THE CONTRACTOR SHALL REVIEW AND COMPLY WITH ALL CONDITIONS DESCRIBED IN THE PERMIT.
- 8. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, THE SAFETY OF ALL PERSONS INCLUDING VISITORS AND THE GENERAL PUBLIC, AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY THROUGHOUT THE PROJECT AND NOT BE LIMITED BY WORKING HOURS. ANY CONSTRUCTION OBSERVATION BY THE ENGINEER OF THE CONTRACTOR'S PERFORMANCE IS NOT INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES.
- 9. PRIOR TO COMMENCEMENT OF WORK THE CONTRACTOR SHALL NOTIFY AND COORDINATE WITH ALL UTILITY COMPANIES AND OBTAIN ANY RELEVANT INFORMATION. NOTIFY ENGINEER OF ANY DISCREPANCIES.
- 10. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL BOUNDARY CORNERS AND SECTION CORNERS. ANY BOUNDARY CORNER AND/OR SECTION CORNER DISTURBED OR DAMAGED BY CONSTRUCTION ACTIVITIES SHALL BE RESET BY A LAND SURVEYOR LICENSED IN THE STATE OF MISSOURI, AT THE CONTRACTOR'S EXPENSE.
- 11. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ADJACENT PROPERTIES AND SHALL TAKE ALL PRECAUTIONS NECESSARY TO PREVENT DAMAGE DURING CONSTRUCTION. THE CONTRACTOR IS ALSO RESPONSIBLE FOR REPAIRING ANY DAMAGE RESULTING FROM CONSTRUCTION ACTIVITIES.
- 12. PRIOR TO MOVING OFF THE JOB THE CONTRACTOR SHALL NOTIFY THE OWNER AND ENGINEER TO PERFORM A FINAL WALK-THROUGH OF THE CONSTRUCTION SITE.

REFERENCES

- 1. UNLESS EXPLICITLY DESCRIBED OTHERWISE WITHIN THESE PLANS THE FOLLOWING SHALL
- A. ALL CONSTRUCTION, INCLUDING THOSE LISTED BELOW, SHALL CONFORM TO THE
- LATEST CODES AND ORDINANCES OF LEE'S SUMMIT, MISSOURI.

 B. ALL CONSTRUCTION IN MODOT RIGHT—OF—WAY SHALL CONFORM TO THE LATEST SPECIFICATIONS ADOPTED BY U.S. DEPARTMENT OF TRANSPORTATION AND MODOT
- C. ALL TRAFFIC CONTROL SIGNAGE SHALL CONFORM WITH THE CURRENT EDITION OF THE MANUAL FOR UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- AND SPECIFICATIONS OF THE UTILITY COMPANIES..

 E. ALL EXTERIOR PAVEMENT (PCC, ASPHALT, ETC.) SHALL BE IN CONFORMANCE WITH THE SPECIFICATIONS OF LEE'S SUMMIT, MISSOURI AND THE RECOMMENDATIONS OF

D. ALL UTILITY EXTENSIONS AND CONSTRUCTION SHALL CONFORM TO THE STANDARDS

4. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE DELIVERY MANAGER AND COORDINATING ANY MAILBOXES THAT MAY BE DISTURBED. FAILURE TO DO SO MAY SUBJECT THE CONTRACTOR TO PROSECUTION BY THE FEDERAL GOVERNMENT.

EXISTING CONDITIONS

THE GEOTECHNICAL REPORT.

- 1. THE CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH THE EXISTING CONDITIONS OF THE PROJECT AREA.
- 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PERFORMING THEIR OWN INVESTIGATIONS AND MAKING THEIR OWN ASSUMPTIONS REGARDING SITE SURFACE AND SUBSURFACE CONDITIONS. THIS INCLUDES THE LOCATION AND CONSISTENCY OF ANY EXISTING ROCK LAYERS UNDERLYING THE PROJECT SITE. CONTACT THE ENGINEER REGARDING ANY DISCREPANCIES THAT MAY AFFECT THE ABILITY TO CONSTRUCT FROM THESE PLANS AS DESIGNED.
- 3. EXISTING CONDITIONS WERE DETERMINED THROUGH A VARIETY OF METHODS THAT MAY INCLUDE SURVEY, AERIAL IMAGERY, AVAILABLE RECORDS, GIS DATA, ETC. SUBSURFACE CONDITIONS ARE APPROXIMATE AND MAY NOT INCLUDE ALL UTILITIES AND OTHER SITE IMPROVEMENTS PRESENT ON SITE. THE CONTRACTOR SHALL MAKE EXPLORATION EXCAVATIONS AND LOCATE EXISTING UNDERGROUND UTILITIES SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT REVISIONS TO PLANS WHEN CONFLICTS AND DISCREPANCIES ARE FOUND.

CONSTRUCTION

- 1. THE CONTRACTOR SHALL INSTALL TRAFFIC CONTROL WHILE WORKING IN THE PUBLIC RIGHT-OF-WAY AS SHOWN IN THESE PLANS. IF PLANS ARE NOT PROVIDED, CONTRACTOR SHALL COORDINATE AND PROVIDE CONTROLS TO THE SATISFACTION OF THE RIGHT-OF-WAY OWNER.
- 2. THE CONTRACTOR SHALL PROTECT ALL TREES OVER 3" CALIPER FROM DAMAGE. NO TREE SHALL BE REMOVED WITHOUT PERMISSION OF THE OWNER, UNLESS SHOWN OTHERWISE ON THESE PLANS.
- THE CONTRACTOR SHALL DISPOSE ALL WASTE MATERIAL RESULTING FROM THE PROJECT OFF—SITE AND IN STRICT CONFORMANCE WITH ALL LOCAL CODES AND ORDINANCES.
- 4. ALL MANHOLES, CATCH BASINS, UTILITY VALVES AND METER PITS ARE TO BE ADJUSTED OR REBUILT TO GRADE AS REQUIRED. NOT ALL ADJUSTMENTS ARE INDICATED IN THE PLANS.
- 5. THE CONTRACTOR SHALL STREET SWEEP OR OTHERWISE CLEAN ALL ACCESS ROUTES TO THE SITE AT CONCLUSION OF THE PROJECT.

GENERAL NOTES:

1. THE INTENT OF THIS LAND DISTURBANCE PLAN IS TO ASSIST THE DEVELOPER IN HIS RESPONSIBILITY TO PROVIDE ALL MATERIALS, TOOLS, EQUIPMENT AND LABOR NECESSARY TO CONTROL EROSION, SILTATION AND DISCHARGES OF SOIL MATERIAL (SEDIMENT) INTO DOWNSTREAM SYSTEMS OR RECEIVING CHANNELS. THIS SHALL BE REQUIRED DURING ALL PHASES OF CONSTRUCTION AND UNTIL SUITABLE GROUND COVER IS ESTABLISHED FOR ALL DISTURBED AREAS. IF ANY METHOD OF CONTROL FAILS, THE DEVELOPER SHALL NOTIFY THE OWNER IMMEDIATELY, SO THAT THE OWNER OR HIS AGENT CAN REVIEW THE DEVELOPER'S PROPOSED METHOD OF REPAIR.

THIS PLAN INDICATES THE CRITICAL AREA(S) OF CONCERN AND THESE AREA(S) WILL BE CONTROLLED AS A MINIMUM. THE CONTROL MAY CONSIST OF TEMPORARY CONTROL MEASURES AS SHOWN ON THE PLANS OR ORDERED BY THE OWNER DURING THE LIFE OF THE CONTRACT TO CONTROL EROSION OR WATER POLLUTION, THROUGH THE USE OF BERMS, DIKES, DAMS, SEDIMENT BASINS, FIBER MATS, NETTING, STRAW BALES, GRAVEL, MULCHES, GRASSES, SLOPE DRAINS, DIVERSION SWALES OR OTHER EROSION CONTROL DEVICES OR METHODS. THE OWNER HAS THE AUTHORITY TO LIMIT THE SURFACE AREA OF ERODIBLE EARTH MATERIAL EXPOSED BY THE CONSTRUCTION OPERATIONS AND TO DIRECT THE DEVELOPER TO PROVIDE IMMEDIATE PERMANENT OR TEMPORARY POLLUTION CONTROL MEASURES TO PREVENT CONTAMINATION OF ADJACENT STREAMS OR OTHER WATER COURSES, LAKES, PONDS, OR OTHER AREAS OF WATER IMPOUNDMENT OR CONVEYANCES.

THE TEMPORARY POLLUTION CONTROL PROVISIONS CONTAINED HEREIN SHALL BE COORDINATED WITH ANY PERMANENT EROSION CONTROL FEATURES SPECIFIED ELSEWHERE IN THE CONTRACT TO THE EXTENT PRACTICAL TO ASSURE ECONOMICAL, EFFECTIVE AND CONTINUOUS EROSION CONTROL THROUGHOUT THE CONSTRUCTION AND POST CONSTRUCTION PERIOD.

- 2. THIS SEDIMENTATION CONTROL PLAN MAKES USE OF THE FOLLOWING APPLICATIONS:
- X_PRESERVATION OF EXISTING VEGETATION
- _X_SEDIMENT BARRIERS
 _X_SEDIMENT TRAPS
- _X_INLET PROTECTION
- ___OUTLET PROTECTION
 ___SOIL RETAINING SYSTEMS
- ___SLOPE DRAINS
- ___SUBSURFACE DRAINS

PHYSICAL DESCRIPTION OF EACH SPECIFIC SEDIMENT CONTROL DEVICE TO BE UTILIZED IS CALLED OUT ON THE PLANS WITH INSTALLATION PROCEDURES, CONSTRUCTION SPECIFICATIONS AND MAINTENANCE ARRANGEMENT AS CALLED FOR ON THE DETAIL SHEET. IN ADDITION TO THE MEASURES SPECIFIED, THE FOLLOWING GENERAL PRACTICES SHALL BE ADHERED TO WHEN APPLICABLE.

- A) CLEARING AND GRUBBING WITHIN 50' OF A DEFINED DRAINAGE COURSE SHOULD BE AVOIDED WHEN POSSIBLE. WHERE CHANGES TO A DEFINED DRAINAGE COURSE OCCUR, WORK SHOULD BE DELAYED UNTIL ALL MATERIALS AND EQUIPMENT NECESSARY TO PROTECT AND COMPLETE THE DRAINAGE CHANGE ARE ON SITE. CHANGES SHALL BE COMPLETED AS QUICKLY AS POSSIBLE ONCE THE WORK HAS BEEN INITIATED. THE AREA IMPACTED BY THE CONSTRUCTION ACTIVITIES SHALL BE REVEGETATED OR PROTECTED FROM EROSION AS SOON AS POSSIBLE, AREAS WITHIN 50' OF A DEFINED DRAINAGE WAYS SHOULD BE RECONTOURED AS NEEDED OR OTHERWISE PROTECTED WITHIN FIVE (5) WORKING DAYS AFTER GRADING HAS CEASED.
- B) WHERE SOIL DISTURBING ACTIVITIES CEASE IN AN AREA FOR MORE THAN 14 DAYS, THE DISTURBED AREAS SHALL BE PROTECTED FROM EROSION BY STABILIZING THE AREA WITH MULCH OR OTHER SIMILARLY EFFECTIVE EROSION CONTROL MEASURES. IF THE SLOPE OF THE AREA IS GREATER THAN 3:1 OR IF THE SLOPE IS GREATER THAN 3% AND GREATER THAN 150 FEET IN LENGTH, THEN THE DISTURBED AREAS SHALL BE PROTECTED FROM EROSION BY STABILIZING THE AREA WITH MULCH OR OTHER SIMILARLY EFFECTIVE EROSION CONTROL MEASURES IF ACTIVITIES CEASE FOR MORE THAN SEVEN (7) DAYS.
- C) EXISTING VEGETATION SHALL BE PRESERVED TO THE EXTENT AND WHERE PRACTICAL. IN NO CASE SHALL DISTURBED AREAS REMAIN WITHOUT VEGETATIVE GROUND COVER FOR A PERIOD IN EXCESS OF 60 DAYS.
- D) ADDITIONAL SITE MANAGEMENT PRACTICES WHICH SHALL BE ADHERED TO DURING THE CONSTRUCTION PROCESS SHALL INCLUDE:
- SOLID AND HAZARDOUS WASTE MANAGEMENT INCLUDING PROVIDING TRASH CONTAINERS AND REGULAR SITE CLEAN UP FOR PROPER DISPOSAL OF SOLID WASTE SUCH AS BUILDING MATERIAL, PRODUCT/MATERIAL SHIPPING WASTE, FOOD CONTAINERS AND CUPS, AND PROVIDING CONTAINERS FOR THE PROPER DISPOSAL OF WASTE PAINTS SOLVENTS, AND CLEANING COMPOUNDS.
- PROVISIONS OF PORTABLE TOILETS FOR PROPER DISPOSAL OF SANITARY SEWAGE.
- STORAGE OF CONSTRUCTION MATERIALS AWAY FROM DRAINAGE COURSES AND LOW AREAS.
- INSTALLATION OF CONTAINMENT BERMS AND USE OF DRIP PANS AT PETROLEUM PRODUCT AND LIQUID STORAGE TANKS AND CONTAINERS.
- 3. ALL DISTURBED AREAS SHALL BE SEEDED, FERTILIZED AND MULCHED, OR SODDED, IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS ADOPTED BY THE CITY OF LEE'S SUMMIT AND GOOD ENGINEERING PRACTICES. THIS SHALL BE COMPLETED WITHIN FOURTEEN (14) DAYS AFTER COMPLETING THE WORK, IN ANY AREA. IF THIS IS OUTSIDE OF THE SEEDING PERIOD, SILT BARRIERS OR OTHER SIMILARLY EFFECTIVE MEASURES SHALL BE PROVIDED UNTIL SUCH TIME THAT THE AREAS CAN BE SEEDED.
- 4. THE CONSTRUCTION COVERED BY THESE PLANS SHALL CONFORM TO ALL CURRENT STANDARDS AND SPECIFICATIONS ADOPTED BY THE CITY OF LEE'S SUMMIT. THE DEVELOPER WILL BE RESPONSIBLE FOR DETERMINING ALL ADDITIONAL STANDARDS, SPECIFICATIONS OR REQUIREMENTS WHICH ARE REQUIRED BY GOVERNING AGENCIES (INCLUDING LOCAL, STATE AND FEDERAL AUTHORITIES) HAVING JURISDICTION OVER THE WORK PROPOSED BY THESE CONSTRUCTION DRAWINGS.
- 5. ALL EROSION CONTROL MEASURES, TEMPORARY OR PERMANENT, REQUIRE MAINTENANCE TO PRESERVE THEIR EFFECTIVENESS. ALL EROSION CONTROL DEVICES SHALL BE INSPECTED IMMEDIATELY AFTER EACH HEAVY RAINSTORM AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHOULD BE MADE IMMEDIATELY. ALL COSTS ASSOCIATED WITH THE REPAIR WORK INCLUDING RELATED INCIDENTALS WILL BE THE DEVELOPER'S RESPONSIBILITY AND SHALL BE INCLUDED IN THE DEVELOPER'S BID FOR THE PROPOSED WORK.
- 6. ALL EROSION CONTROL MEASURES TO BE PER APWA KANSAS CITY METRO CHAPTER STANDARD DETAILS.
- 7. THE DEVELOPER MUST REMOVE AT HIS COST ANY BAD SUBSURFACE SOIL WHICH WOULD NOT BE ABLE TO SUPPORT ANY PROPOSED PUBLIC IMPROVEMENT. BACKFILL SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE CITY OF LEE'S SUMMIT DESIGN AND CONSTRUCTION MANUAL SECTIONS 2100 AND 2201 ENTITLED "GRADING AND SITE PREPARATION" AND "SUBGRADE PREPARATION".
- 8. THE CONTRACTOR SHALL CONTACT THE CITY'S DEVELOPMENT SERVICES ENGINEERING INSPECTORS 48 HOURS PRIOR TO ANY LAND DISTURBANCE WORK AT (816) 969-1200
- 9. TREE CLEARING TO HAPPEN BETWEEN NOVEMBER 1 AND MARCH 31. TREES CLEARED BETWEEN APRIL 1 AND OCTOBER 31 MUST BE TREES GREATER THAN 1,000 FEET FROM FORESTED OR WOODED AREAS OR TREES LESS THAN 3 INCHES IN DIAMETER, AT BREAST HEIGHT, AND NOT MIXED WITH LARGER TREES. IF LARGER TREES NEED TO BE CLEARED, A SURVEY OF THE TREES MUST BE CONDUCTED TO MAKE SURE THERE ARE NO BAT ROOSTS IN THE TREES.

 TREE CLEARING TO BE CONDUCTED BY CUTTING DOWN AND MULCHING OR BY PUSHING OVER AND MULCHING. TREES SHALL NOT BE BURNED DOWN.

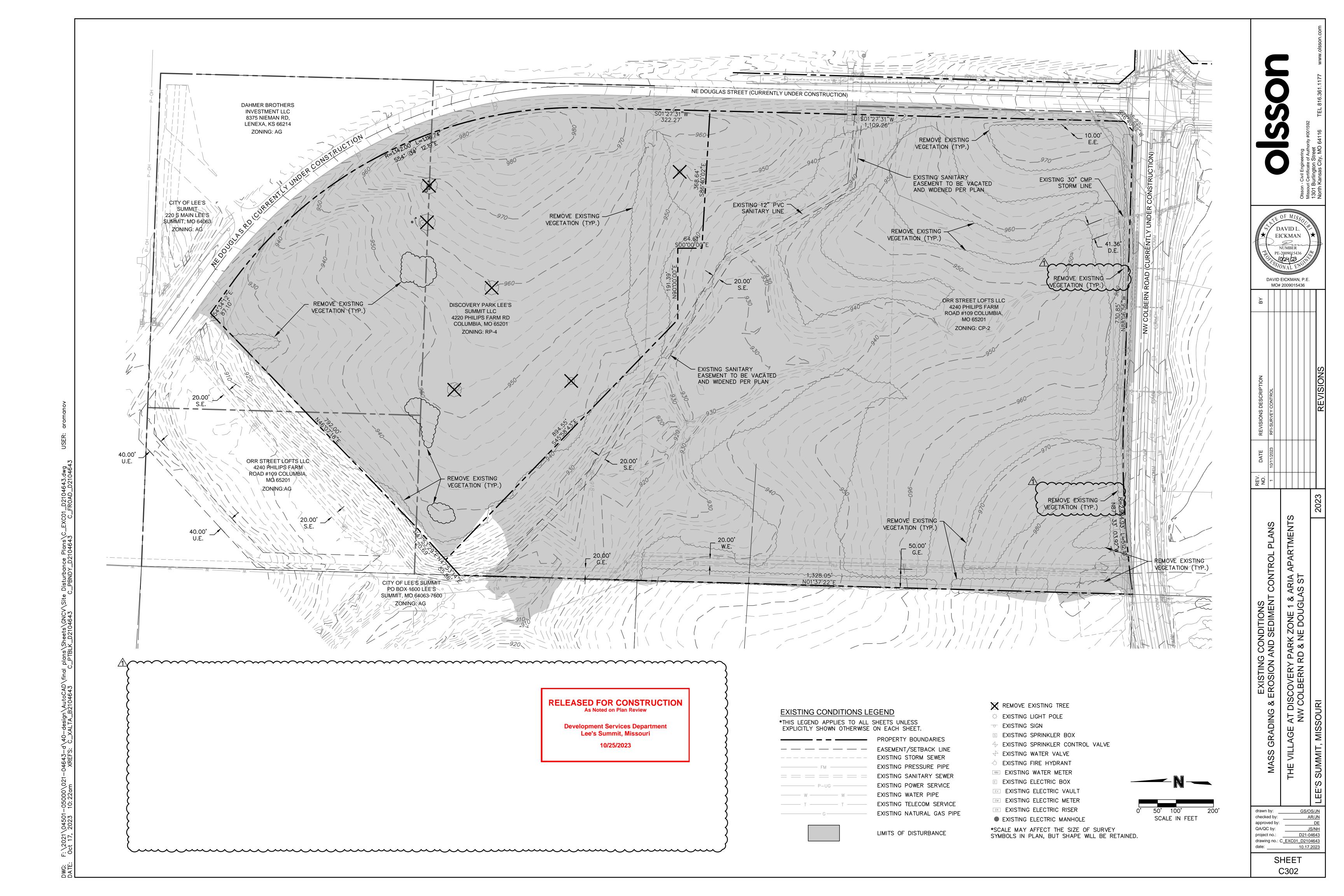
| ITEM NO. | DESCRIPTION | DESCRIPTION UNIT | | | | |
|----------|--------------------------------|------------------|-------------|--|--|--|
| | SITE DISTURBAN | CE | 1 | | | |
| 1 | EXCAVATION | C.Y. | 230,615 | | | |
| 2 | EMBANKMENT | C.Y. | 464,762 | | | |
| 3 | 15" HDPE | L.F. | L.F. 160.20 | | | |
| 4 | 24" HDPE | L.F. | 157.42 | | | |
| 5 | 36" HDPE | L.F. | 146.35 | | | |
| 6 | 5'x6' RCB | L.F. | 161.81 | | | |
| 7 | 15" END SECTION | EA. | 2 | | | |
| 8 | 24" END SECTION | EA. | 2 | | | |
| 9 | 36" END SECTION | EA. | 2 | | | |
| 10 | RIPRAP | S.Y. | 92.80 | | | |
| 11 | 4'x4' INSIDE FIELD INLET | EA. | 4 | | | |
| 12 | EXTRA DEPTH ON 4'x4' | V.F. | 24.42 | | | |
| 13 | 5'x5' INSIDE FIELD INLET | EA. | 2 | | | |
| 14 | EXTRA DEPTH ON 5'x5' | V.F. | 3.80 | | | |
| 15 | 7'x4' INSIDE FIELD INLET | EA. | 1 | | | |
| 16 | EXTRA DEPTH ON 7'x4' | V.F. | 5.38 | | | |
| 17 | 9'x12' INSIDE OUTLET STRUCTURE | EA. | 1 | | | |
| 18 | RIPRAP BASIN ROCK | TON | 3288.00 | | | |
| 19 | CONNECT TO EXISTING STRUCTURES | EA. | 1 | | | |
| 20 | VEHICLE TRACKING DEVICE | EA. | 1 | | | |
| 21 | SEDIMENT TRAP | EA. | 15 | | | |
| 22 | DIVERSION BERM | L.F. | 7831.42 | | | |
| 23 | SILT FENCE | L.F. | 3004.42 | | | |
| 24 | ROCK DITCH CHECK | EA. | 19 | | | |
| 25 | TREE CLEARING | AC. | 27.75 | | | |
| 26 | INLET PROTECTION | EA. | 26 | | | |
| 27 | EROSION CONTROL BLANKET | S.Y. | 4563 | | | |
| 28 | TURF REINFORCEMENT MAT | S.Y. 10626 | | | | |

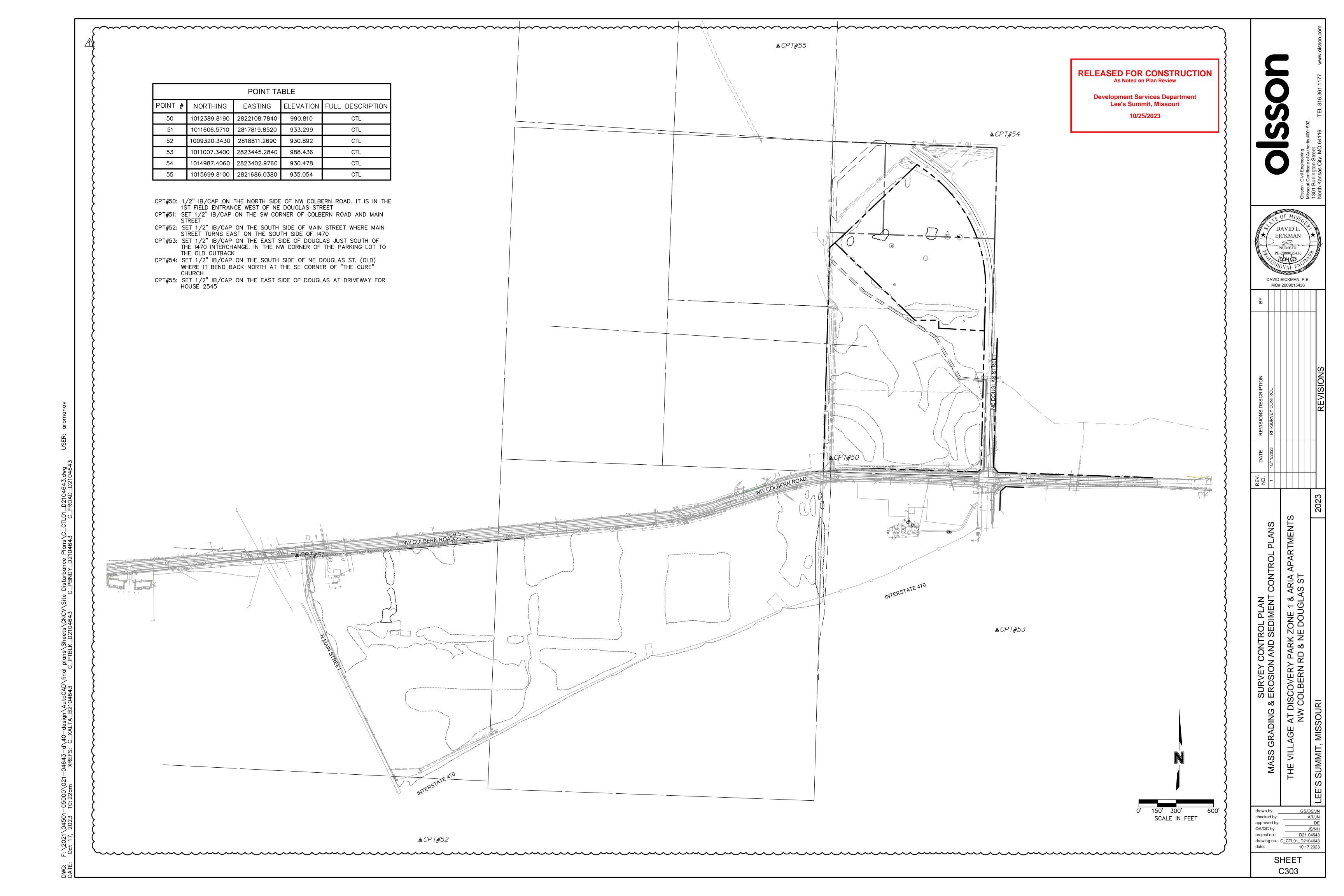
SUMMARY OF QUANTITIES AS INDICATED ABOVE AND ANY QUANTITIES AS SHOWN WITHIN THE PLANS HAVE BEEN PROVIDED FOR PERMITTING PURPOSES ONLY AND ARE NOT INTENDED FOR USE IN PREPARATION OF CONTRACT DOCUMENTS. QUANTITIES INTENDED FOR, BUT NOT LIMITED TO, THE PREPARATION OF PROPOSALS AND BID DOCUMENTS SHALL BE INDEPENDENTLY EVALUATED BY THE ESTIMATING PARTY BASED UPON THE CONTENTS OF THESE PLANS.

2.20

AC.

NATIVE SEED MIX





SITE STRIPPING SHOULD BE EVALUATED TO DETERMINE IF PORTIONS OF THE TOPSOIL STRATUM MAY BE UTILIZED AS STRUCTURAL FILL WITHIN PAVEMENT AREAS. ANY MATERIAL NOT DEEMED AS SUITABLE FILL MATERIAL BY THE GEOTECHNICAL ENGINEER AND OR TESTING AGENCY SHALL BE REMOVED FROM THE JOB SITE BY THE CONTRACTOR AT HIS EXPENSE.

3. ALL EMBANKMENT OUTSIDE OF RIGHT-OF-WAY SHOULD BE PLACED IN CONTROLLED LIFTS HAVING A MAXIMUM LOOSE LIFT THICKNESS OF 8". EMBANKMENT SHOULD BE COMPACTED TO A MINIMUM OF 95% OF THE MATERIALS MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D-698 (STANDARD PROCTOR COMPACTION). MOISTURE CONTENT OF THE FILL AT THE TIME OF COMPACTION SHALL BE WITHIN A RANGE OF -0 TO +4 PERCENT OF OPTIMUM MOISTURE CONTENT.

4. PAVEMENT AND OTHER INFRASTRUCTURE IMPROVEMENTS NOT EXPLICITLY DETAILED WITHIN THIS PLAN SET ARE SHOWN FOR REFERENCE ONLY AND WILL BE REVIEWED AND PERMITTED SEPARATELY.

REMOVAL AND DISPOSAL OF MATERIAL DEEMED UNSUITABLE BY A GEOTECHNICAL ENGINEER. THE EARTHWORK CONTRACTOR IS RESPONSIBLE FOR EXCAVATION, REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL AND FOR REPLACING IT WITH SUITABLE MATERIAL.

4. ELEVATIONS SHOWN ON DISCOVERY PARK ZONE 1 ARE TO TOP OF PAVEMENT OR FINISHED GRADE. VOLUMES SHOWN DO NOT REFLECT PAVEMENT DEPTHS, SPOILS, TRENCH FILL, OR ANY OTHER ADJUSTMENTS. SEE SHEET C232 ON PRIVATE SITE DEVELOPMENT PLANS FOR PAVEMENT SECTION DETAILS.

5. ELEVATIONS SHOWN ON ARIA APARTMENTS ARE TO SUBGRADE (12 IN. BELOW FINISHED GRADE ACROSS THE SITE). VOLUMES APPROXIMATELY REFLECT PAVEMENT DEPTHS, BUT DO NOT REFLECT SPOILS, TRENCH FILL, OR ANY OTHER ADJUSTMENTS. SEE SEPARATE SITE DEVELOPMENT PLANS FOR ARIA APARTMENTS FOR MORE DETAILS.

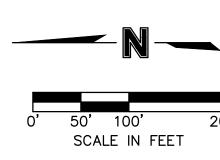
| TIED ONTIDE WITHOUT CONTIDON |
|--------------------------------------|
| HED GRADE MINOR CONTOUR |
| TING GRADE MAJOR CONTOUR |
| TING GRADE MINOR CONTOUR |
| POSED STORM SEWER |
| POSED SANITARY SEWER TO BE RELOCATED |
| TING SANITARY SEWER |
|) |

LIMITS OF DISTURBANCE

| EARTHWORK QUANTITIES | | | | | | | |
|---------------------------------|---------|---------|--|--|--|--|--|
| LOCATION CUT (C.Y.) FILL (C.Y.) | | | | | | | |
| ARIA APARTMENTS | 139,557 | 70,893 | | | | | |
| 70NF 1 | 91,058 | 393,869 | | | | | |

RELEASED FOR CONSTRUCTION As Noted on Plan Review

Development Services Department Lee's Summit, Missouri 10/25/2023



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| |
| GS/OS/JN |
| AR/JN |
| DE |
| JS/NH |
| D21-04643 |
| C_GRD01_D2104643 |
| 10.17.2023 |
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| |

DAVID EICKMAN, P.E.

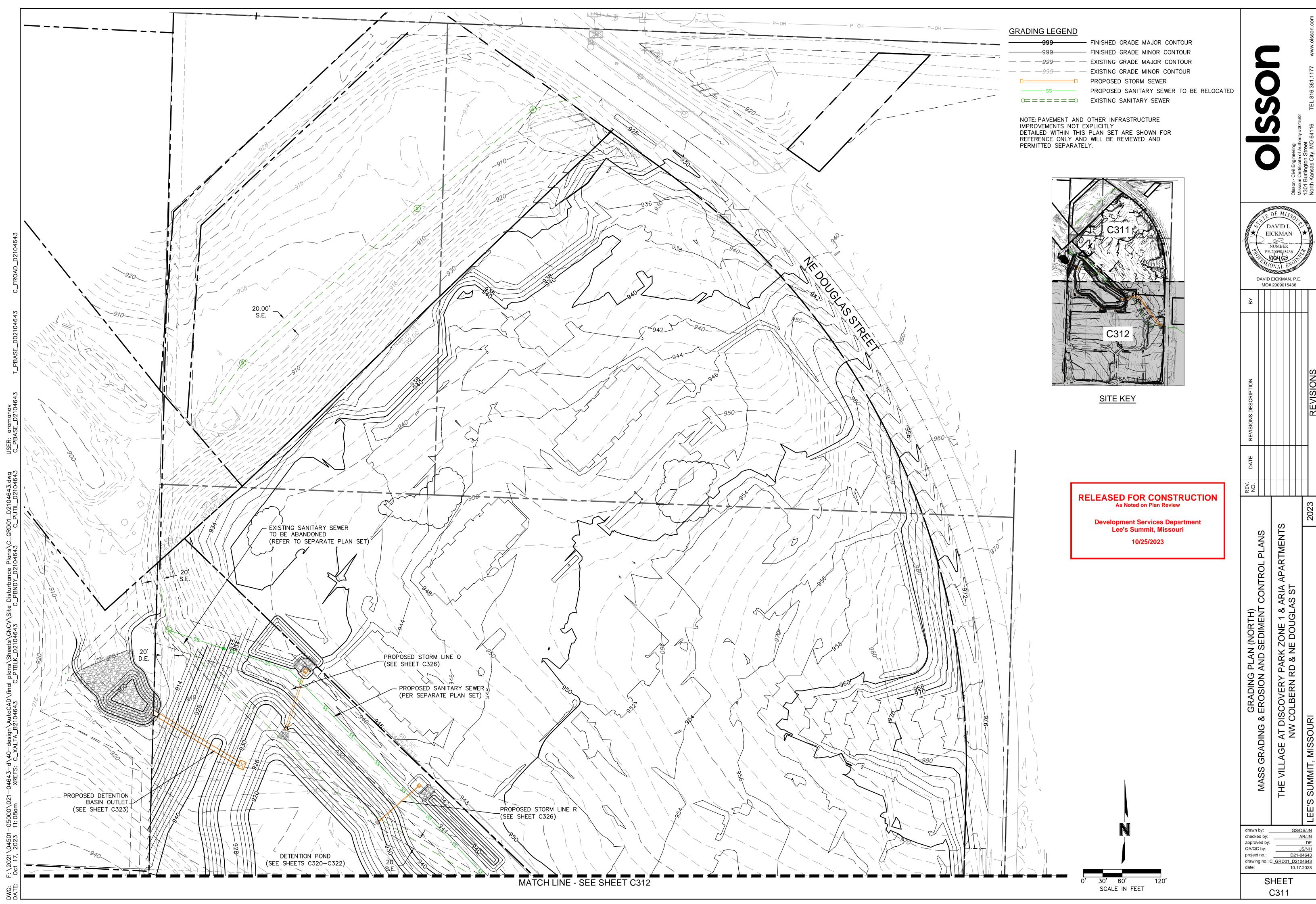
MO# 2009015436

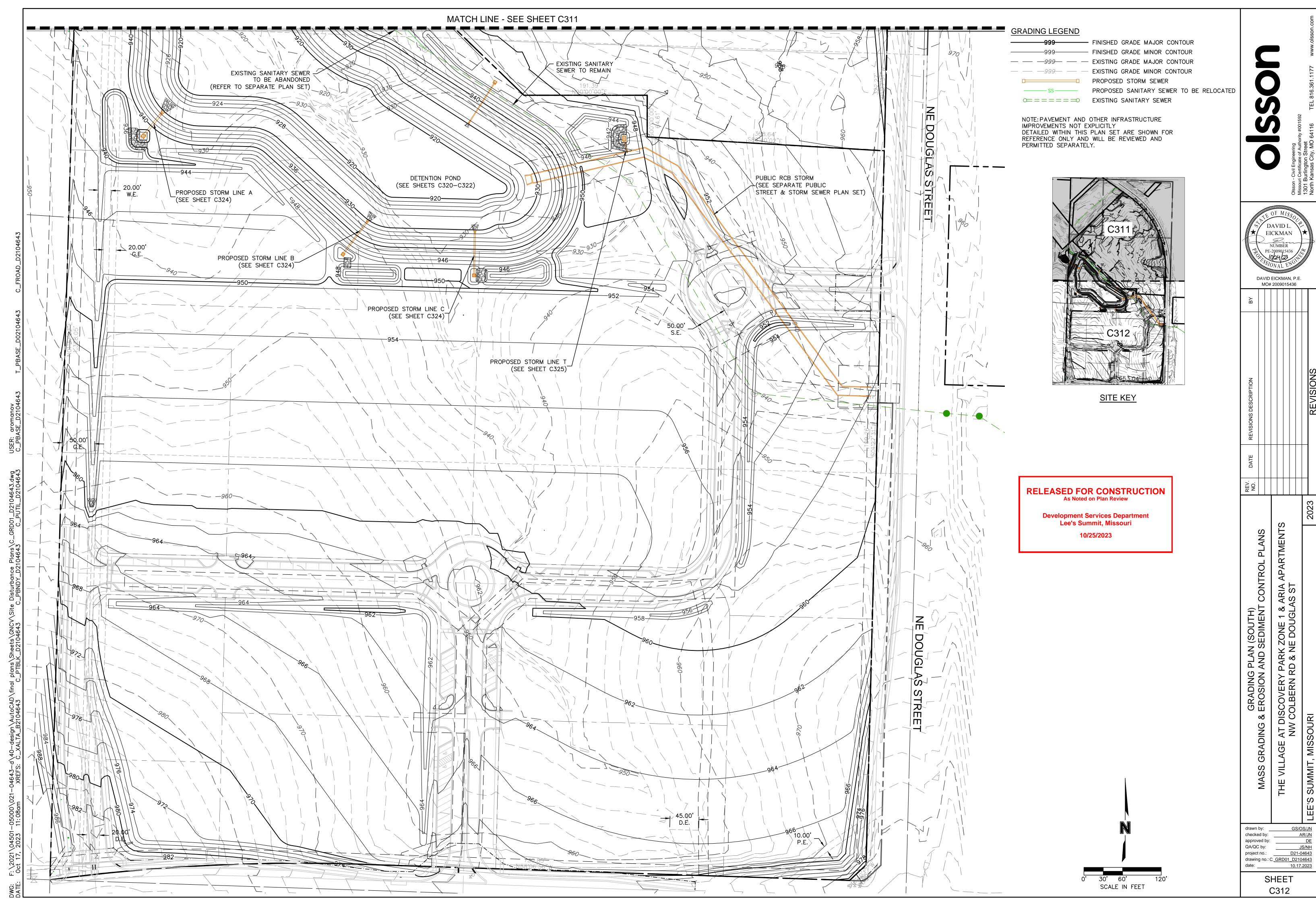
SHEET

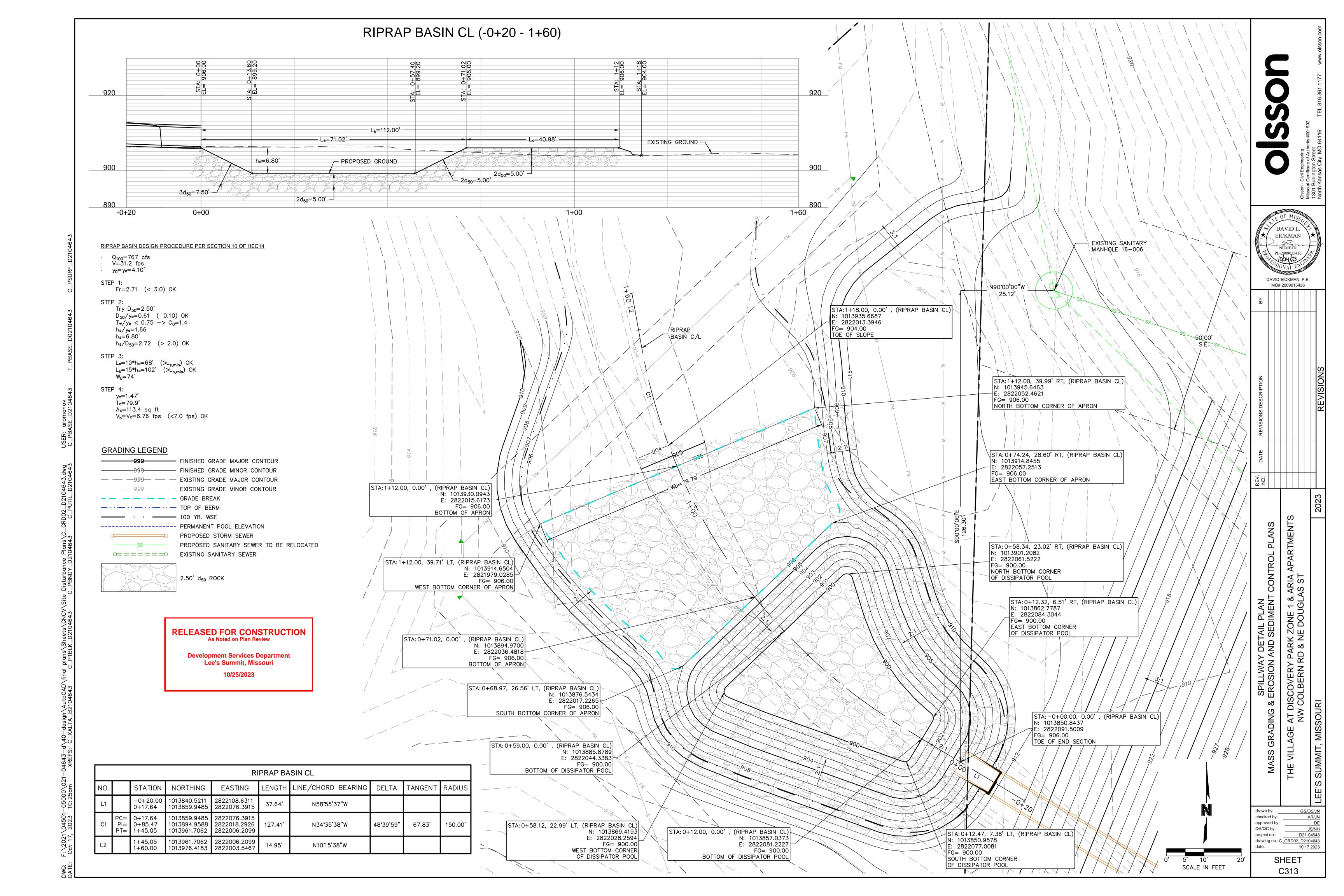
RK ZONE 1 & ARIA /

AT DISCOVERY PAR NW COLBERN RD &

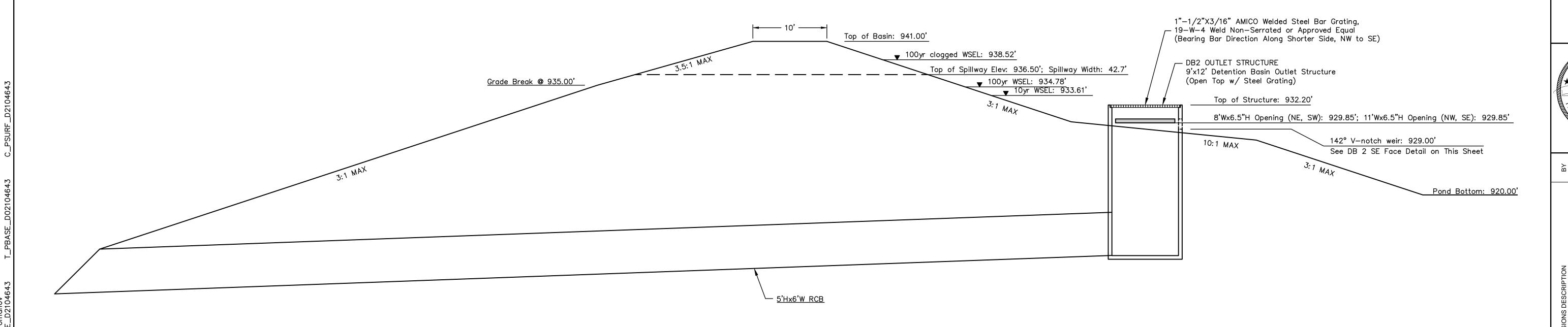
GRADING PLAN EROSION AND SEDIMENT





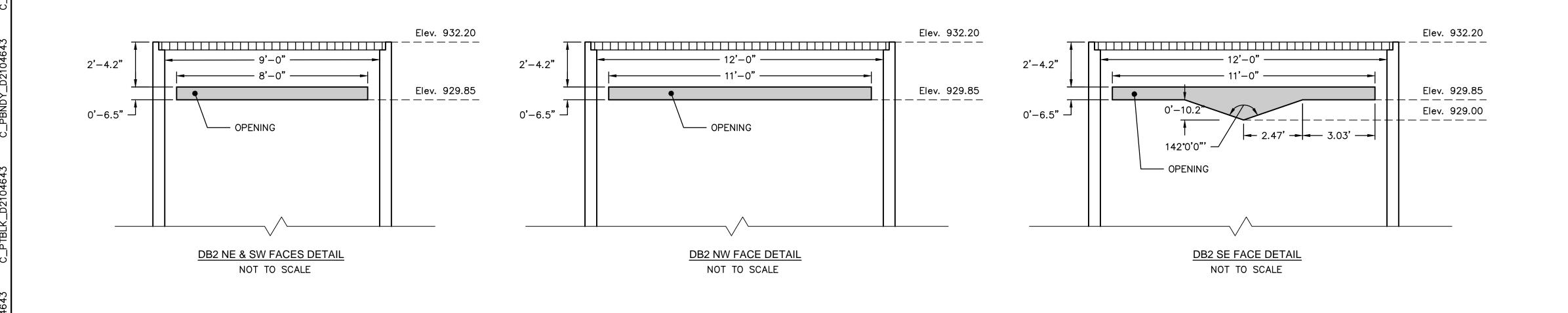






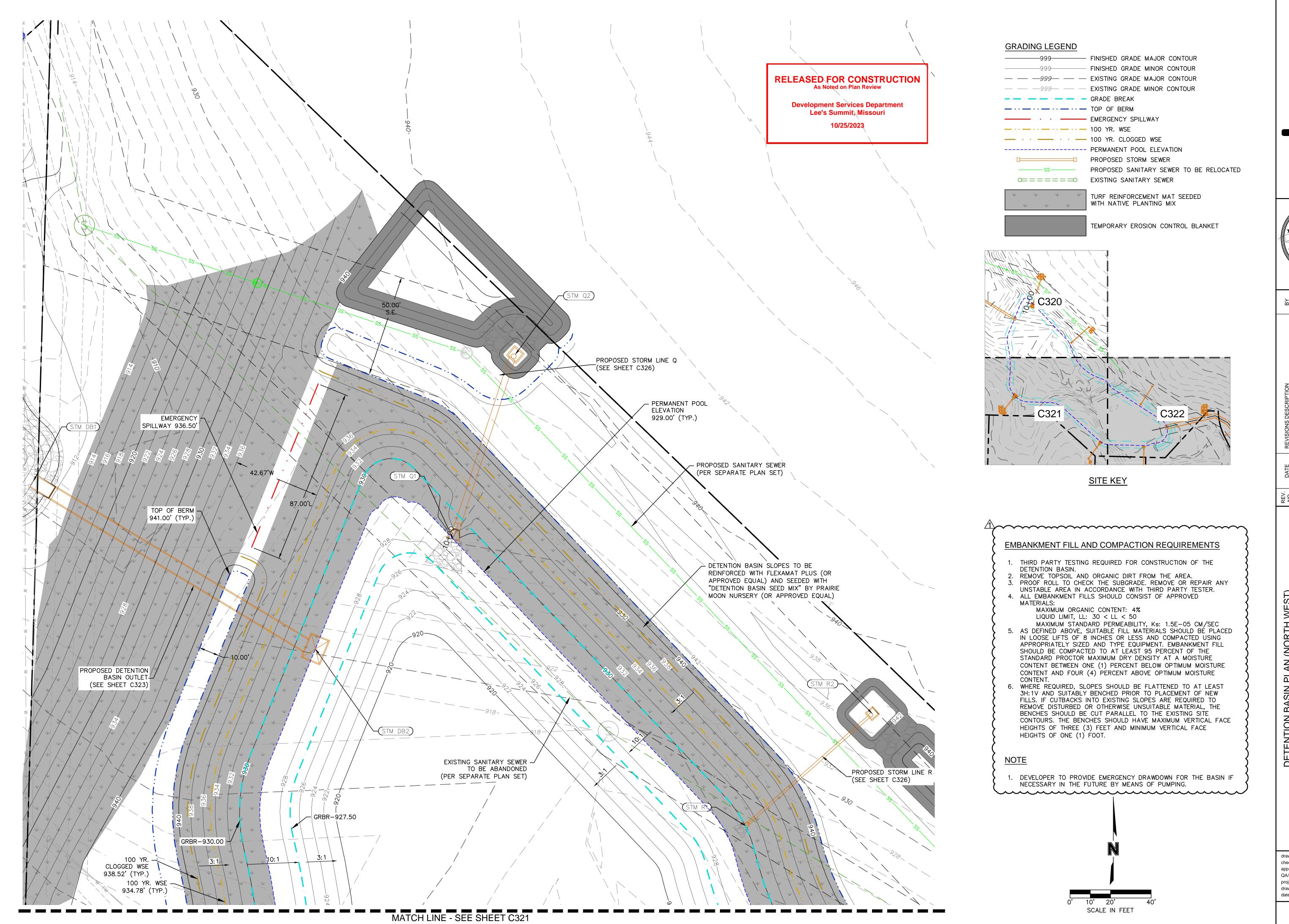
DETENTION BASIN OUTLET STRUCTURE DETAIL

NOT TO SCALE



| BASIN DETAILS | | | | | | | |
|--|---|--|--|--|--|--|--|
| BASIN EMERGENCY SPILLWAY DETAILS | | | | | | | |
| TYPE | RECTANGULAR BROAD CRESTED WEIR | | | | | | |
| LENGTH | 87.0' | | | | | | |
| WIDTH | 42.7' | | | | | | |
| ELEVATION | 936.50' | | | | | | |
| DEPTH | 4.50' | | | | | | |
| TOP ELEVATION | 941.00' | | | | | | |
| 100-YR FLOW | 0.00 CFS | | | | | | |
| 100-YR CLOGGED FLOW | 750.46 CFS (AT 2.02' FLOW DEPTH) | | | | | | |
| BASIN HYDROLOGIC DETAILS | | | | | | | |
| PERMANENT POOL ELEVATION | 929.00' | | | | | | |
| 10—YR FLOW, WSEL, DEPTH, STORAGE | 423.35 CFS, 933.61', 4.61 FT, 16.83 AC-FT | | | | | | |
| 100—YR FLOW, WSEL, DEPTH, STORAGE | 767.11 CFS, 934.78', 5.78 FT, 21.71 AC-FT | | | | | | |
| 100—YR CLOGGED FLOW, WSEL, DEPTH, STORAGE | 750.46 CFS, 938.52', 9.52 FT, 38.45 AC-FT | | | | | | |

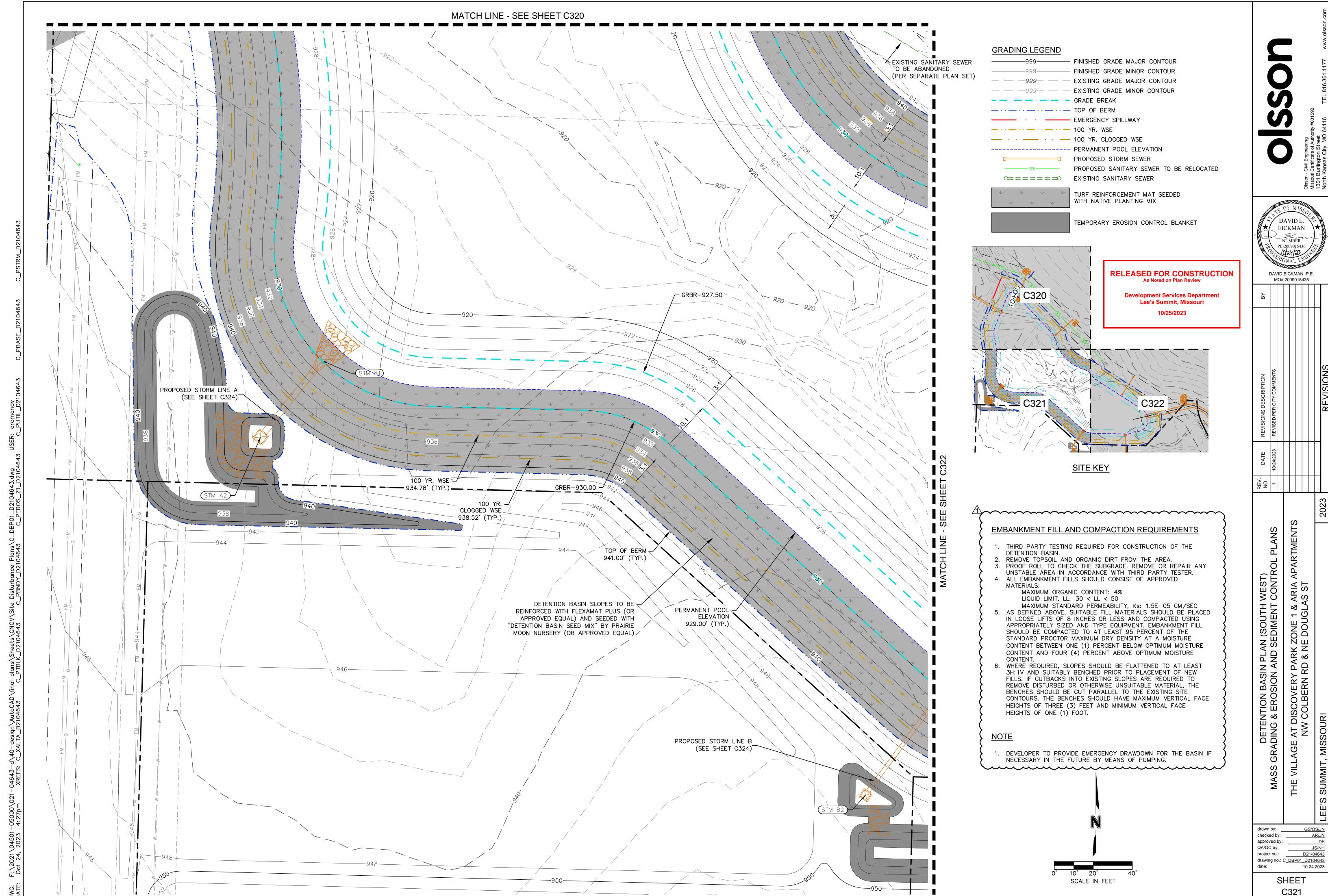
drawn by: GS/OS/JN
checked by: AR/JN
approved by: DE
QA/QC by: JS/NH
project no.: D21-04643
drawing no.: C_GRD02_D2104643
date: 10.17.2023

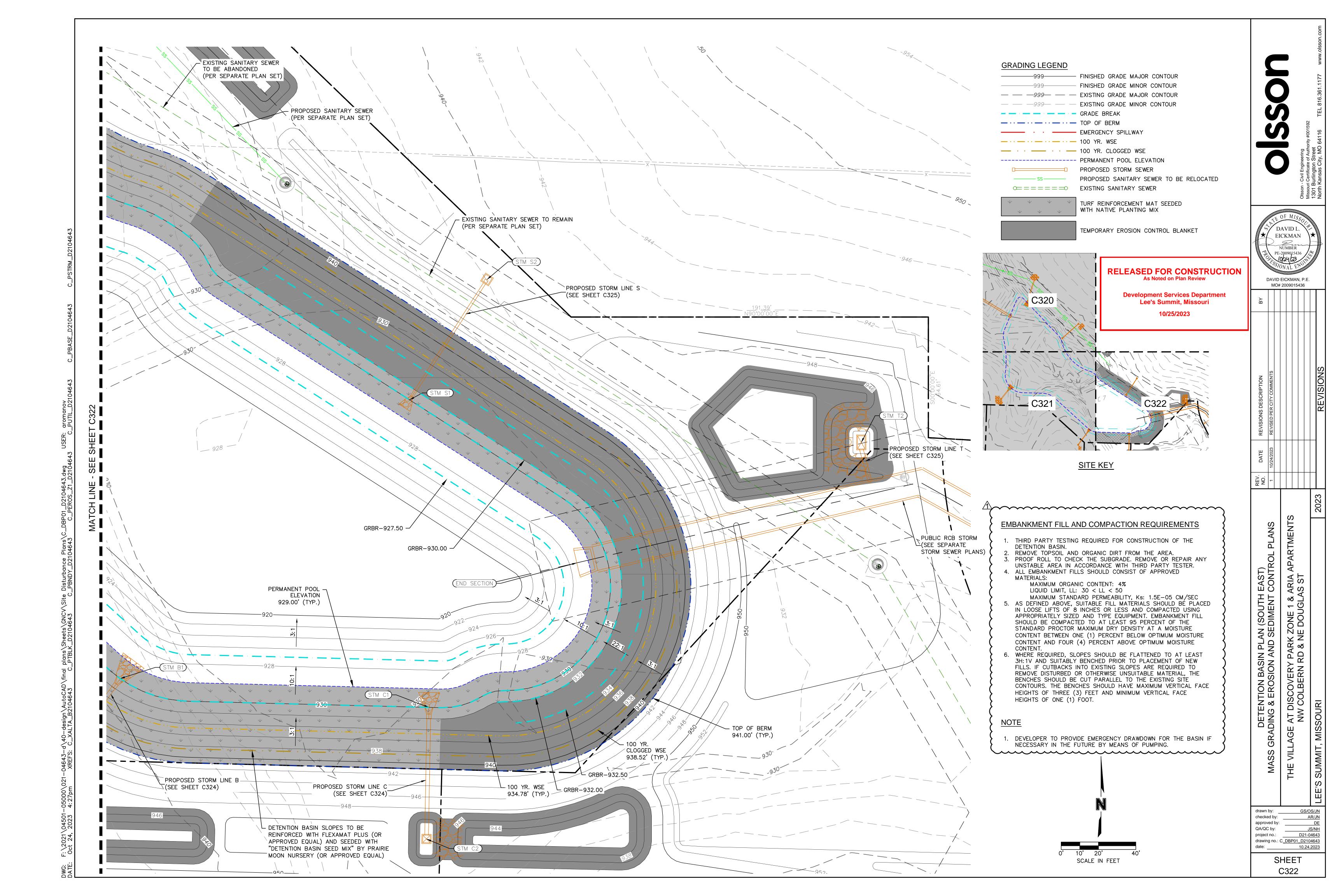


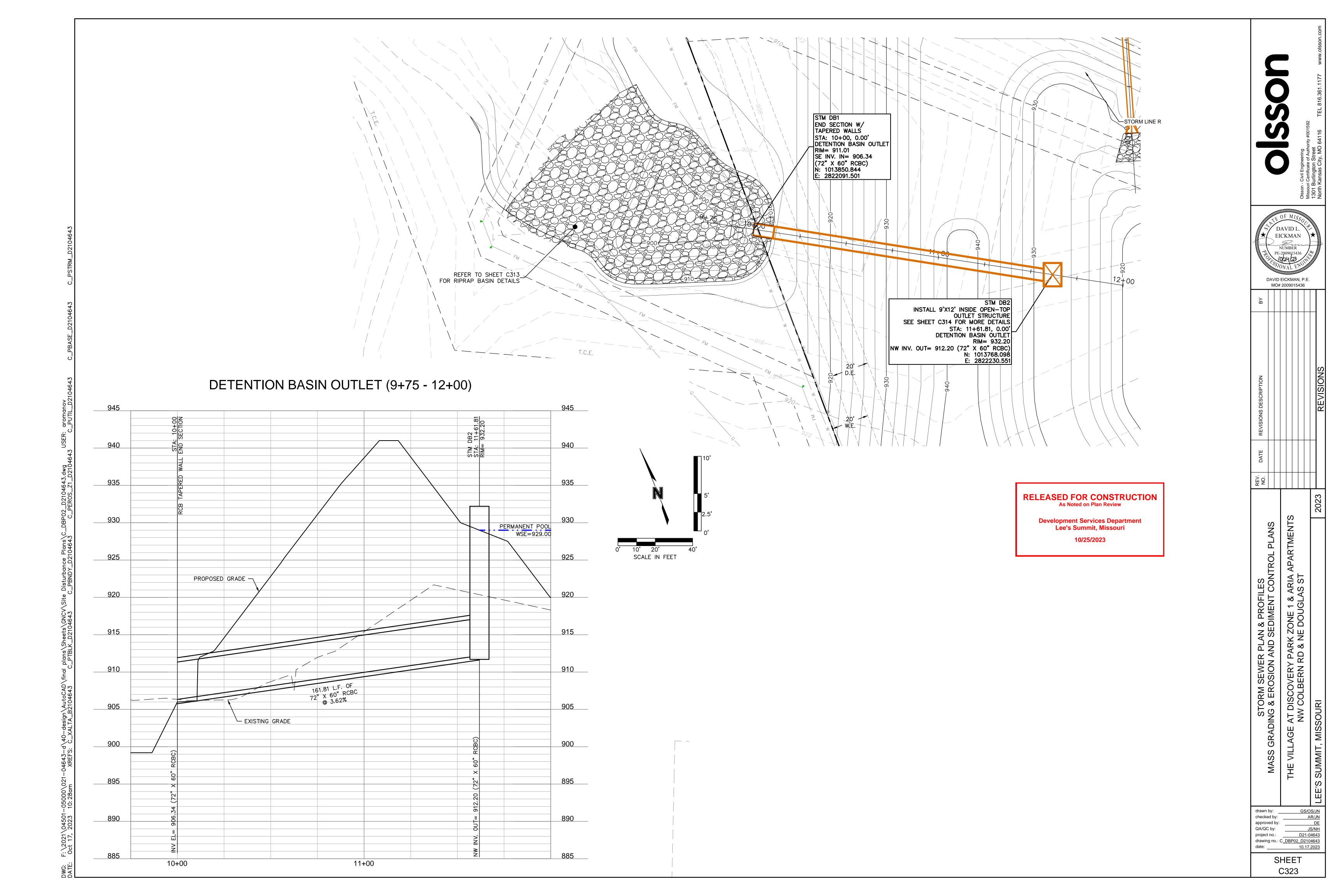
EICKMAN DAVID EICKMAN, P.E. MO# 2009015436

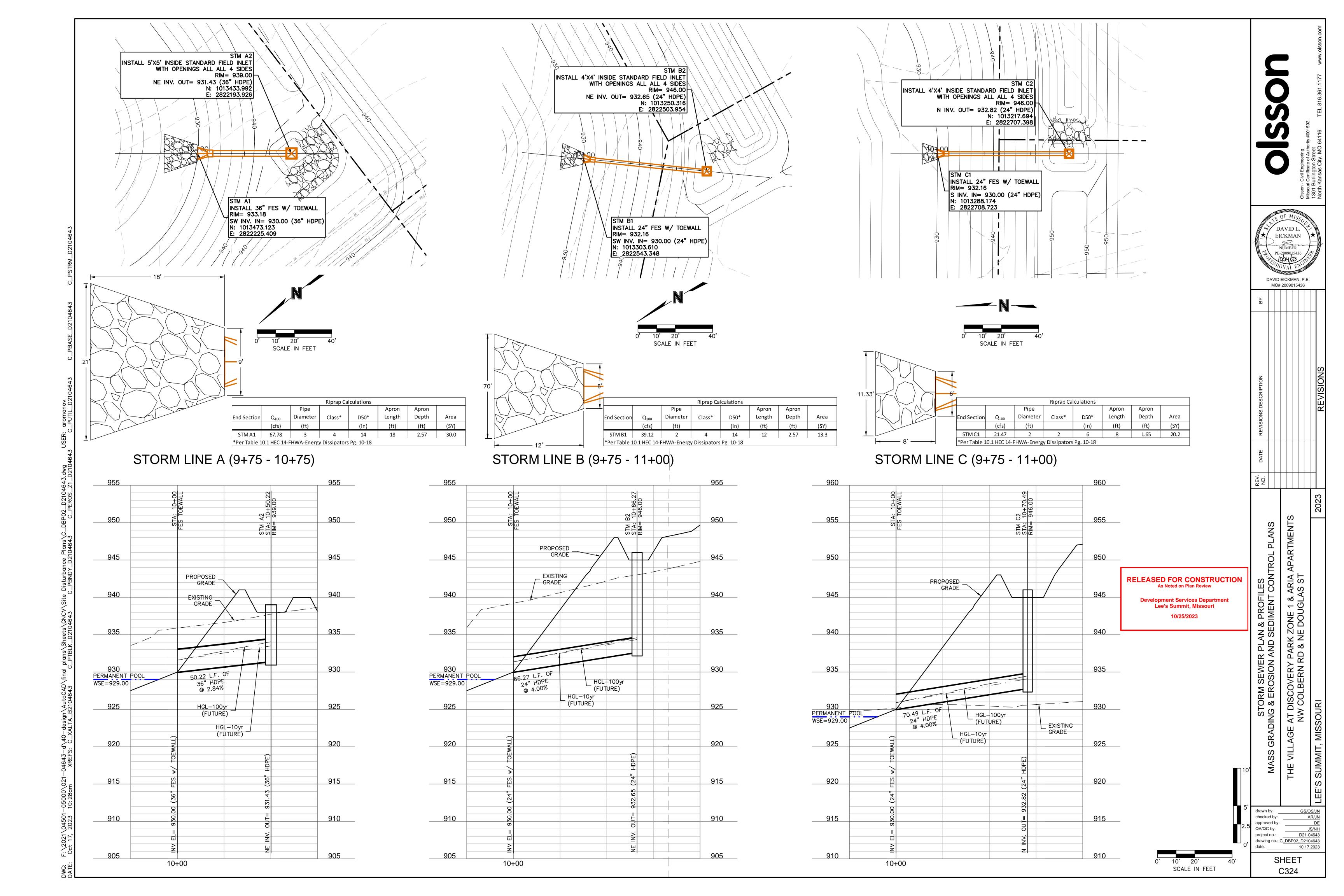
DETENTION BASIN PLAN (NORTH WEST) GRADING & EROSION AND SEDIMENT CONTR AT DISCOVERY PARK ZONE 1 & ARIA NW COLBERN RD & NE DOUGLAS ST

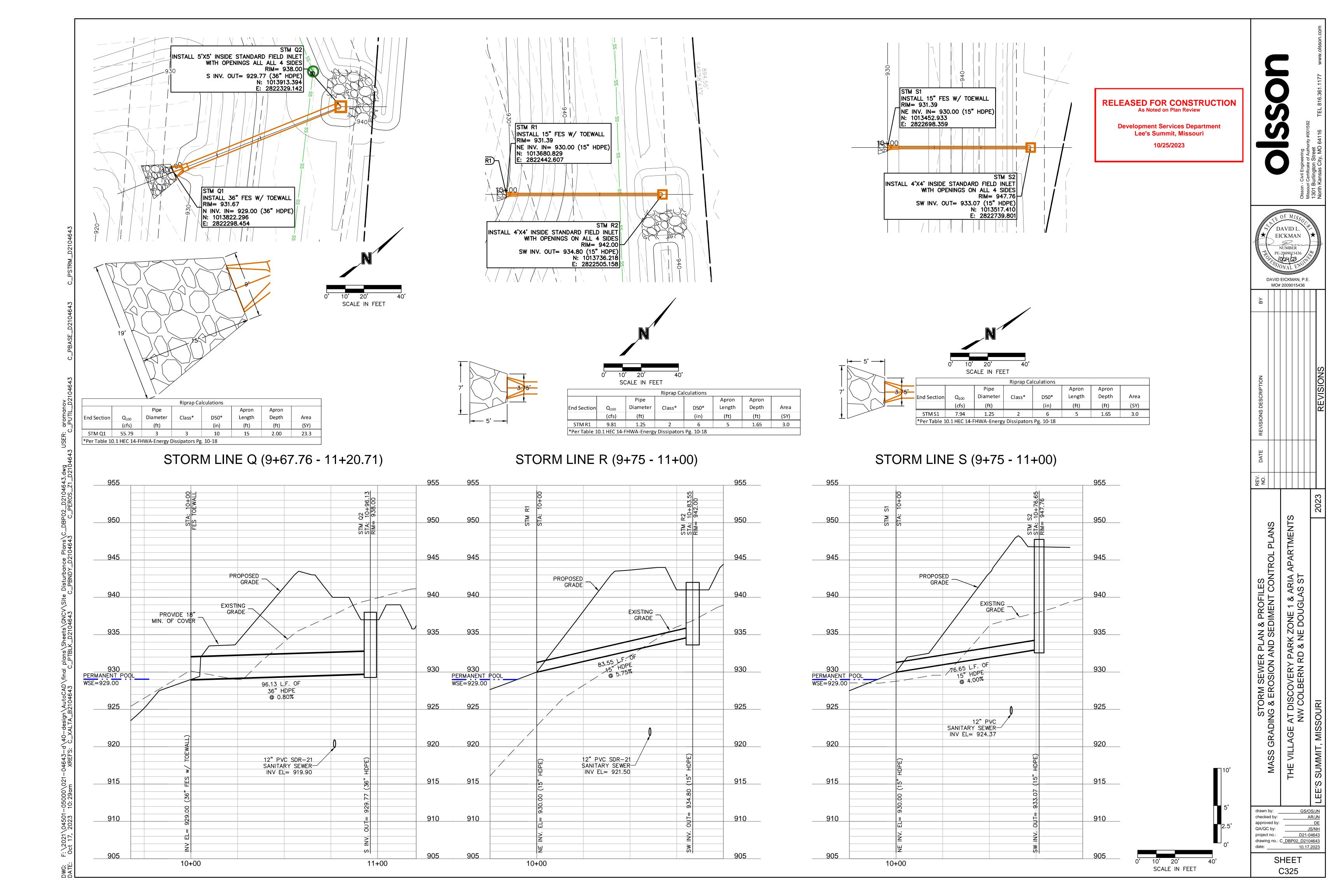
GS/OS/JN checked by: AR/JN QA/QC by: JS/NH project no.: D21-04643 drawing no.: C_DBP01_D2104643 10.24.2023

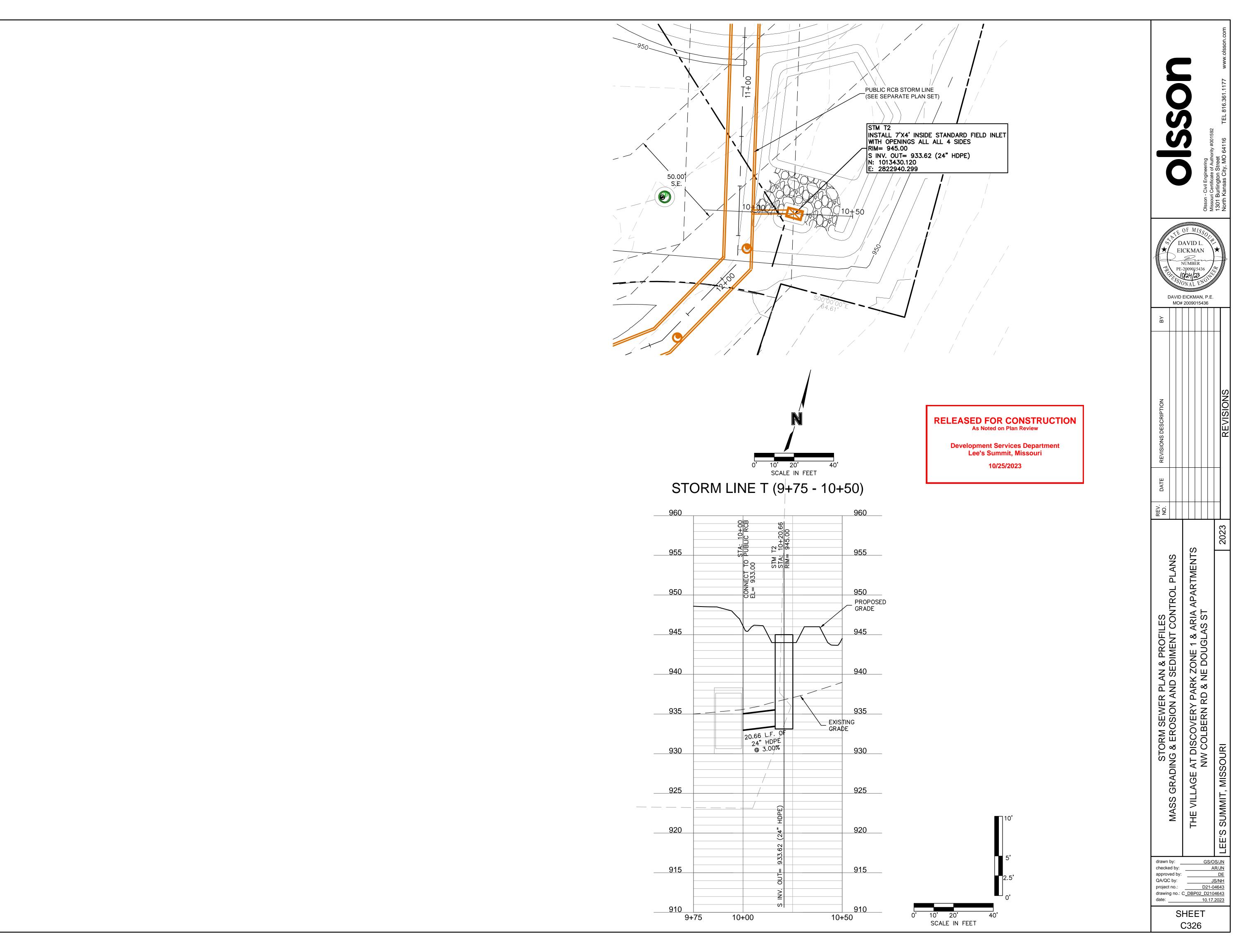


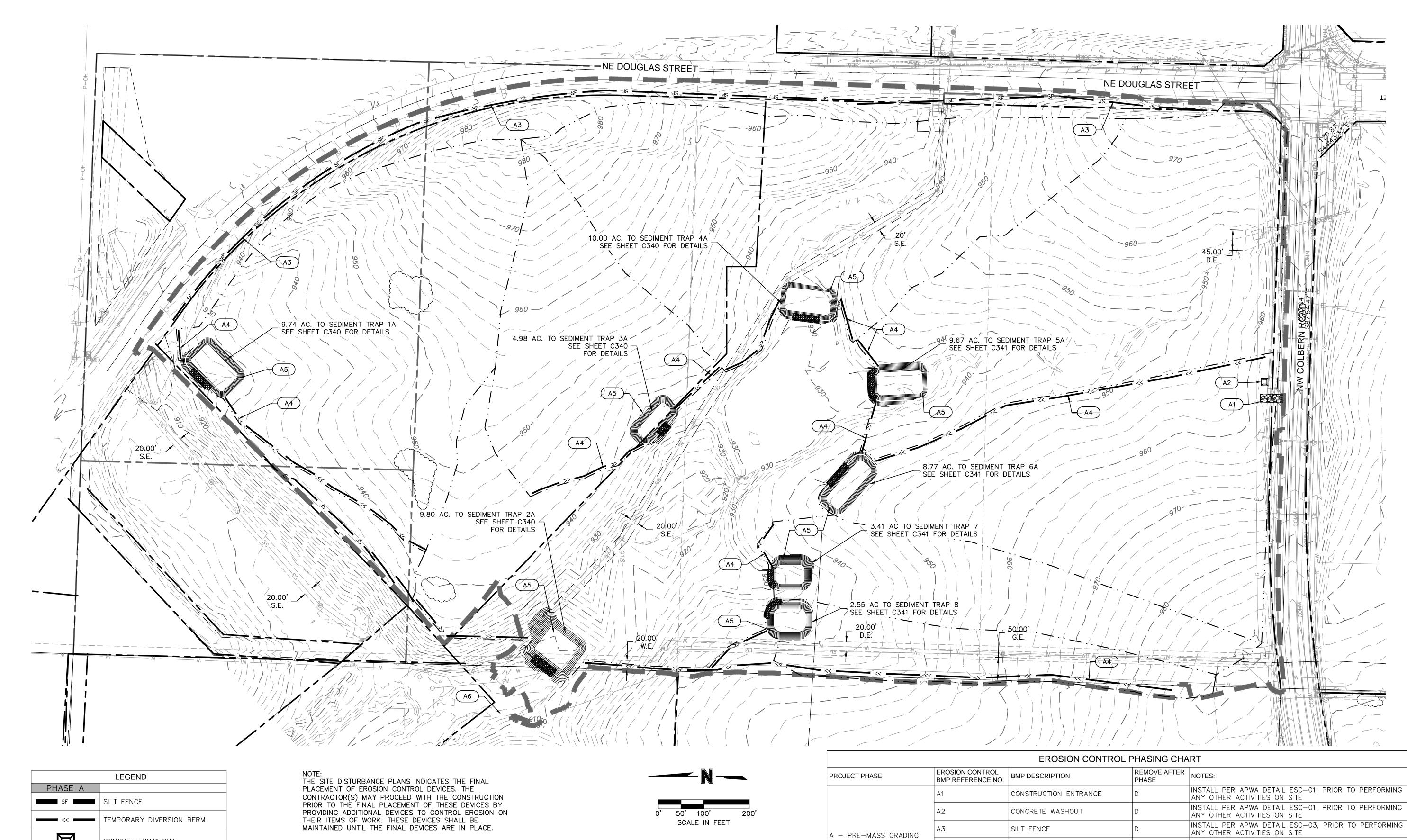












| LEGEND | | | | | | |
|---------|--|--|--|--|--|--|
| PHASE A | | | | | | |
| SF SF | SILT FENCE | | | | | |
| | TEMPORARY DIVERSION BERM | | | | | |
| | CONCRETE WASHOUT | | | | | |
| | TEMPORARY STONE CONSTRUCTION ENTRANCE | | | | | |
| | DRAINAGE AREA TO BASIN/TRAP | | | | | |
| | LIMITS OF DISTURBANCE | | | | | |

GRADING LEGEND

——999———— FINISHED GRADE MINOR CONTOUR — — —999— — EXISTING GRADE MAJOR CONTOUR — — —999— — EXISTING GRADE MINOR CONTOUR

CONTRACTOR TO KEEP SWPPP REPORTS AND MDNR PERMIT IN THE ON-SITE CONSTRUCTION OFFICE TRAILER. TRAILER LOCATION TO BE DETERMINED BY CONTRACTOR

SEDIMENT TRAPS MUST BE FULLY INSTALLED PRIOR TO ANY SITE DISTURBANCE WITHIN THE TRIBUTARY AREA.

SEDIMENT TRAPS ARE SHOWN AS NEEDED PRIOR TO DISTURBING THE SITE. CONTRACTOR IS RESPONSIBLE FOR CONTROLLING ALL SEDIMENT RUNOFF DURING TRANSITION TO FINAL CONDITIONS AS SHOWN ON SHEET C370.

RELEASED FOR CONSTRUCTION As Noted on Plan Review

> **Development Services Department** Lee's Summit, Missouri 10/25/2023

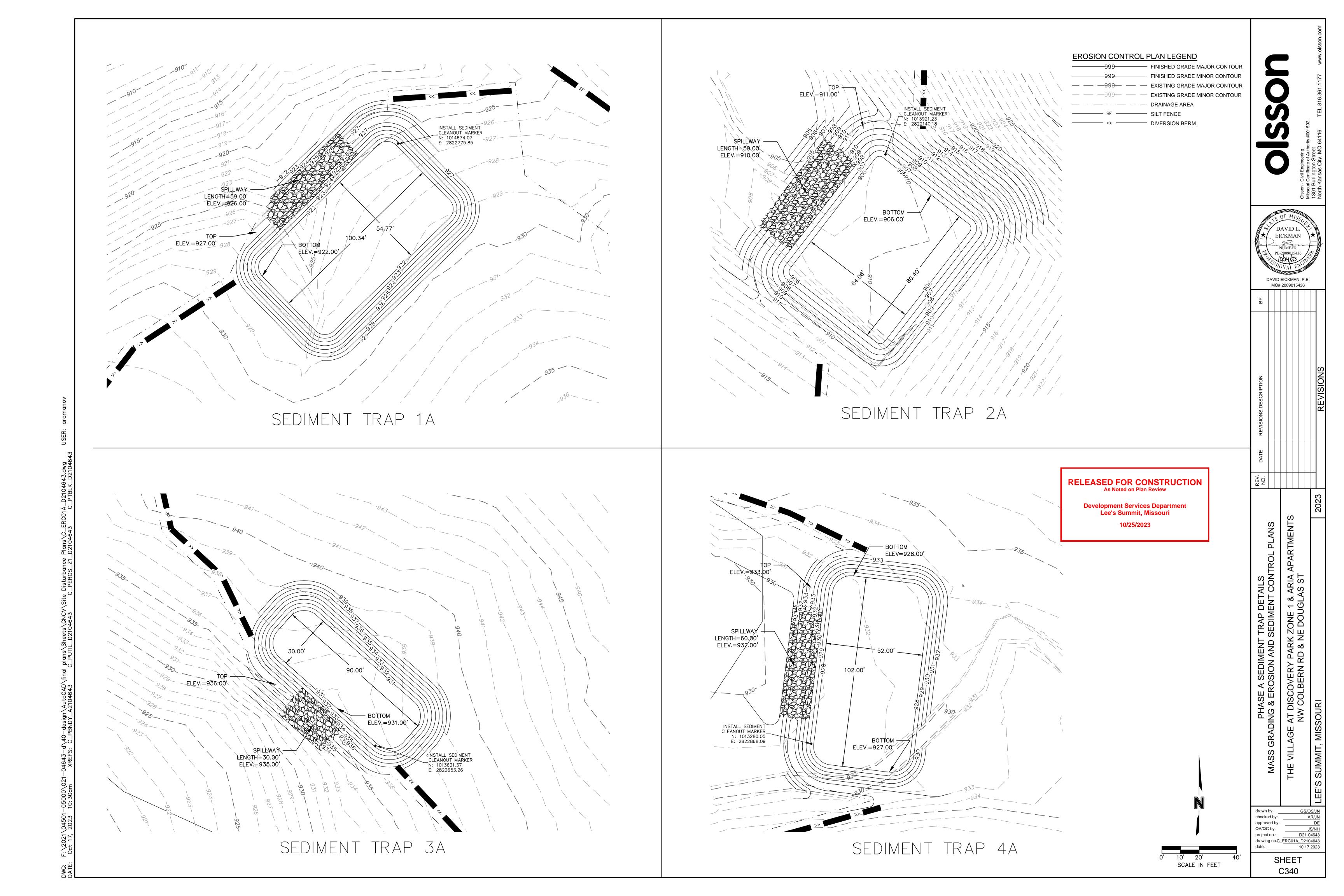
| EROSION CONTROL PHASING CHART | | | | | | | | |
|---|--------------------------------------|---|--------------------|--|--|--|--|--|
| PROJECT PHASE | EROSION CONTROL BMP REFERENCE NO. | BMP DESCRIPTION | REMOVE AFTER PHASE | | | | | |
| A — PRE-MASS GRADING | A1 | CONSTRUCTION ENTRANCE | D | INSTALL PER APWA DETAIL ESC-01, PRIOR TO PERFORMING ANY OTHER ACTIVITIES ON SITE | | | | |
| | A2 | CONCRETE WASHOUT | D | INSTALL PER APWA DETAIL ESC-01, PRIOR TO PERFORMING ANY OTHER ACTIVITIES ON SITE | | | | |
| | A3 | SILT FENCE | D | INSTALL PER APWA DETAIL ESC-03, PRIOR TO PERFORMING ANY OTHER ACTIVITIES ON SITE | | | | |
| | A4 | DIVERSION BERM | D | INSTALL PER APWA DETAIL ESC-05, AND CONTRACTOR SHALL ADJUST AS NECESSARY THROUGHOUT CONSTRUCTION TO ENSURE SEDIMENT REMAINS CONTROLLED ON SITE. | | | | |
| | A5 | SEDIMENT TRAP | D | INSTALL PER APWA DETAIL ESC-08 | | | | |
| | A6 | ROCK CHECK DAM | D | INSTALL PER APWA DETAIL ESC-10 | | | | |
| UPON REMOVAL CONTRACTO EXCESSIVE SETTLING THAT (| | | G ALL SILT, AND |) FILLING IN CONTROLLED LIFTS TO PREVENT VOIDS OR | | | | |
| | B1 | EROSION CONTROL BLANKET/TRM | D | INSTALL PER APWA DETAIL ESC-02 | | | | |
| B — INTERIM | B2 | SILT FENCE | D | INSTALL PER APWA DETAIL ESC-03 | | | | |
| | В3 | DIVERSION BERM | D | INSTALL PER APWA DETAIL ESC-05 | | | | |
| | B4 | SEDIMENT TRAP | D | INSTALL PER APWA DETAIL ESC-08 | | | | |
| | B5 | AREA INLET PROTECTION | D | INSTALL PER APWA DETAIL ESC-07 | | | | |
| | B6 | ROCK CHECK DAM | D | INSTALL PER APWA DETAIL ESC-10 | | | | |
| | B7 | SLOPE INTERUPTS | D | INTALL PER APWA DETAIL ESC-09 OR APPROVED EQUAL | | | | |
| | MAINTAIN ALL INSTA | LLED EROSION CONTROL DEVICES | | | | | | |
| C — DISTURBED AREA STABILIZATION | C1 | ESTABLISH SEEDING AND STABILIZATION OUTSIDE OF SEDIMENT BASIN AND TRAPS | | SITE STABILIZATION PER LOCAL CODES AND ORDINANCES. AT A MINIMUM STABILIZATION SHALL CONFORM WITH APWA SECTION 2406. COORDINATE ALL STABILIZATION WITH EROSION CONTROL MEASURES INDICATED IN SITE DEVELOPMENT PLANS | | | | |

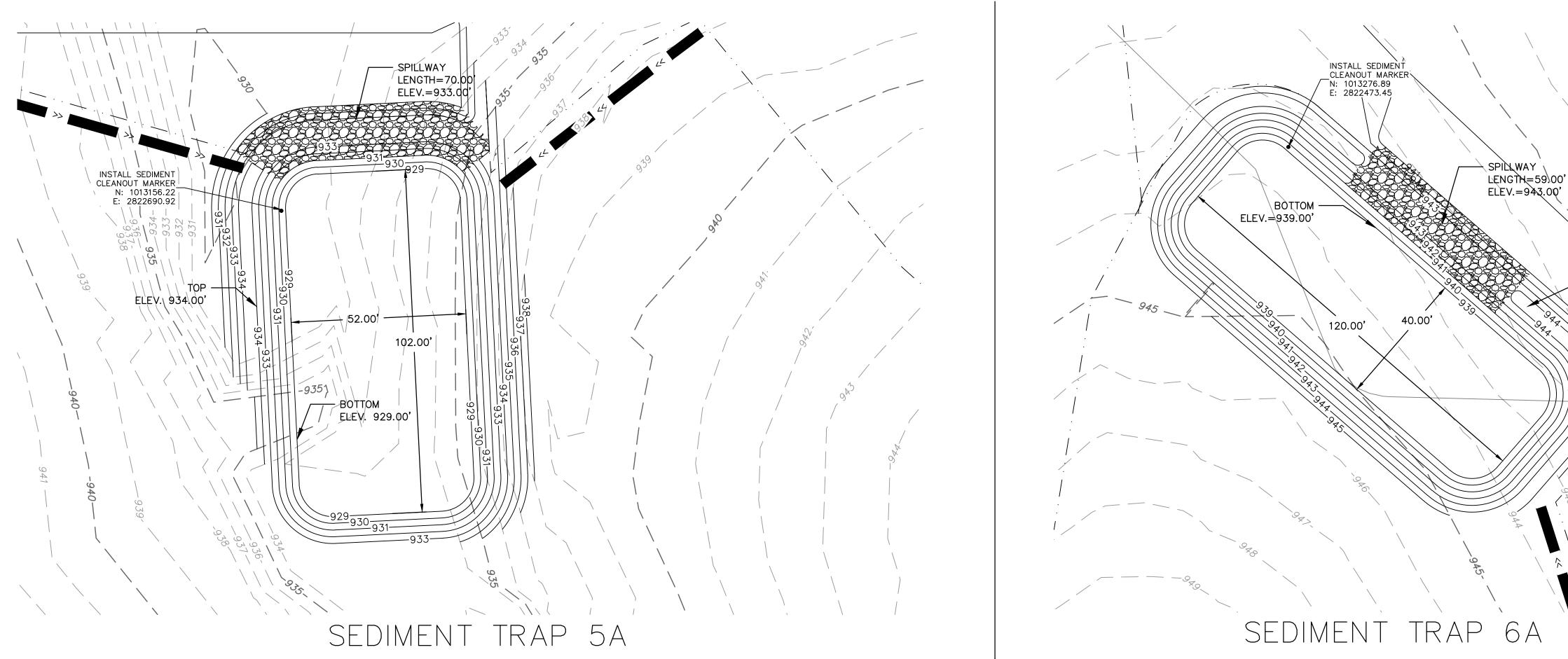
EICKMAN DAVID EICKMAN, P.E. MO# 2009015436

| Ξ A) | | REV. NO. | DATE | REVISIONS DESCRIPTION | В |
|----------------|------|-------------|------|-----------------------|---|
| ONTROL PLANS | | | | | |
| | | | | | |
| | | | | | |
| SIA APARTMENTS | • | | | | |
| | • | | | | |
| LS | | | | | |
| | | | | | |
| | 0000 | | | | |
| | 2023 | | | REVISIONS | |
| | | | | | |

EROSION CONTROL PLAN (PHASE GRADING & EROSION AND SEDIMENT CC AT DISCOVERY PARK ZONE 1 & AR NW COLBERN RD & NE DOUGLAS

drawn by: GS/OS/JN checked by: AR/JN QA/QC by: project no.: D21-04643 drawing no.: 06-02-2023





8A 2.55 4590.00 3.0 2.0 19908.54 2.5

EROSION CONTROL PLAN LEGEND

FINISHED GRADE MAJOR CONTOUR FINISHED GRADE MINOR CONTOUR

 EXISTING GRADE MINOR CONTOUR OIVERSION BERM

EICKMAN

DAVID EICKMAN, P.E. MO# 2009015436

| ш | | | | | |
|-----------------------|--|--|--|--|-----------|
| REVISIONS DESCRIPTION | | | | | SEVISIONS |
| DATE | | | | | |
| REV. NO. | | | | | |
| | | | | | 23 |

AT DISCOVERY PARK ZONE 1 & ARIA NW COLBERN RD & NE DOUGLAS ST

PHASE A SEDIMENT TRAP DETAILS (CONT'D) GRADING & EROSION AND SEDIMENT CONTROL

GS/OS/JN AR/JN

checked by: approved by: DE
QA/QC by: JS/NH
project no.: D21-04643
drawing no.C_ERC01A_D2104643
date: 10.17.2023

SHEET C341

SCALE IN FEET

" LENGTH=55.00' ELEV.=936.00' INSTALL SEDIMENT CLEANOUT MARKER_ N: 1013395.77 E: 2822189.37 BOTTOM -ELEV =931.00' / 72.00'

SEDIMENT TRAP 8A

2.0 6988.13 3981.71 931.94

| | | T | T | Т | | Г | Т | Т | T | Г | | Т | <u></u> | |
|------|-----------|----------|------------|----------|----------|-----------|-----------|-----------|-----------|----------|-----------|-----------|----------|-----------|
| | | | | SPILLWAY | | | | | TOP OF | | | | SEDIMENT | SEDIMENT |
| | TRIBUTARY | REQUIRED | BERM | HEIGHT | STORAGE | BERM TOP | BOTTOM | RIPRAP | BERM | SPILLWAY | EXCAVATED | EXCAVATED | CLEANOUT | CLEANOUT |
| TRAP | AREA | VOLUME | HEIGHT "H" | "H₀" | VOLUME | WIDTH "W" | ELEVATION | ELEVATION | ELEVATION | LENGTH | DEPTH | VOLUME | VOLUME | ELEVATION |
| | (AC.) | (C.F.) | (FT.) | (FT.) | (C.F.) | (FT.) | (FT.) | (FT.) | (FT.) | (FT.) | (FT.) | (C.F.) | (C.F.) | (FT.) |
| 1A | 9.74 | 17532.00 | 2.0 | 1.0 | 19154.11 | 2.0 | 922 | 926.00 | 927.00 | 59 | 2.0 | 6376.37 | 3830.82 | 922.67 |
| 2A | 9.80 | 17640.00 | 2.0 | 1.0 | 19510.07 | 2.0 | 906 | 910.00 | 911.00 | 59 | 2.0 | 6484.88 | 3902.01 | 906.70 |
| 3A | 4.98 | 8964.00 | 2.0 | 1.0 | 9958.15 | 2.0 | 931 | 935.00 | 936.00 | 30 | 2.0 | 3311.05 | 1991.63 | 931.70 |
| 4A | 10.00 | 18000.00 | 2.0 | 1.0 | 18382.15 | 2.0 | 928 | 932.00 | 933.00 | 60 | 2.0 | 6118.89 | 3676.43 | 928.67 |
| 5A | 9.67 | 17406.00 | 2.0 | 1.0 | 18382.15 | 2.0 | 929 | 933.00 | 934.00 | 59 | 2.0 | 6118.89 | 3676.43 | 929.67 |
| 6A | 8.77 | 15786.00 | 2.0 | 1.0 | 16797.39 | 2.0 | 939 | 943.00 | 944.00 | 53 | 2.0 | 5562.39 | 3359.48 | 939.67 |
| 7A | 3.41 | 6138.00 | 2.0 | 1.0 | 9947.05 | 2.0 | 927 | 931.00 | 932.00 | 21 | 2.0 | 6215.18 | 1989.41 | 927.69 |

931 936.00 937.00 16

INSTALL SEDIMENT _CLEANOUT MARKER N: 1013389.92 TOP -ELEV.=932.00' — BOTTOM -ELEV.≠927.00'/

- SPILLWAY LENGTH=42.00

ELEV.=931.00

SEDIMENT TRAP 7A

— TOP ELEV.=944.00'

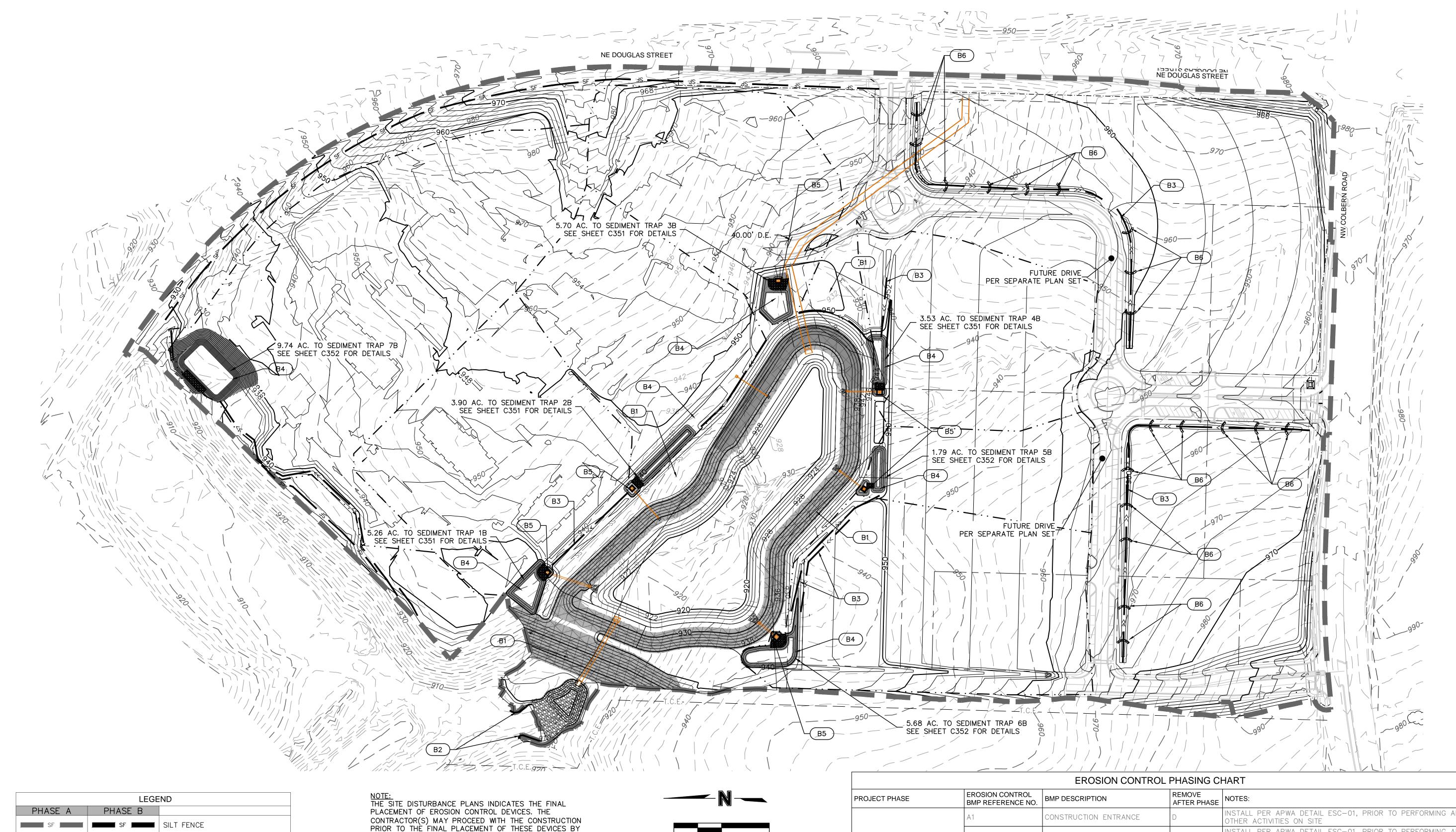
NOTES

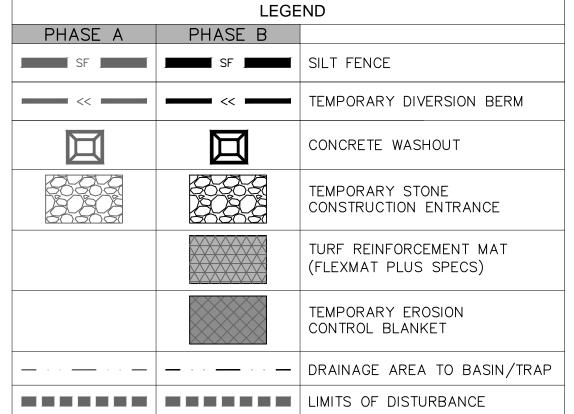
1. THE SITE DISTURBANCE PLANS INDICATE THE FINAL OF THE STATE O PLACEMENT OF EROSION CONTROL DEVICES. THE CONTRACTOR(S) MAY PROCEED WITH THE CONSTRUCTION PRIOR TO FINAL PLACEMENT OF THESE DEVICES BY PROVIDING ADDITIONAL DEVICES O CONTROL EROSION ON THEIR ITEMS OF WORK. THESE DEVICES SHALL BE MAINTAINED UNTIL THE FINAL DEVICES ARE IN PLACE.

2. ALL EROSION CONTROL DEVICES SHALL BE INSTALLED PER THE AMERICAN PUBLIC WORKS ASSOCIATION, KANSAS CITY METRO CHAPTER DIVISION III STANDARD DRAWINGS, EROSION AND SEDIMENT CONTROL, 2016 VERSION.

RELEASED FOR CONSTRUCTION
As Noted on Plan Review

Development Services Department Lee's Summit, Missouri 10/25/2023





PRIOR TO THE FINAL PLACEMENT OF THESE DEVICES BY PROVIDING ADDITIONAL DEVICES TO CONTROL EROSION ON THEIR ITEMS OF WORK. THESE DEVICES SHALL BE MAINTAINED UNTIL THE FINAL DEVICES ARE IN PLACE.

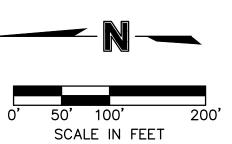
CONTRACTOR TO KEEP SWPPP REPORTS AND MDNR PERMIT IN THE ON-SITE CONSTRUCTION OFFICE TRAILER. TRAILER LOCATION TO BE DETERMINED BY CONTRACTOR

SEDIMENT TRAPS MUST BE FULLY INSTALLED PRIOR TO ANY SITE DISTURBANCE WITHIN THE TRIBUTARY AREA.

SEDIMENT TRAPS ARE SHOWN AS NEEDED PRIOR TO DISTURBING THE SITE. CONTRACTOR IS RESPONSIBLE FOR CONTROLLING ALL SEDIMENT RUNOFF DURING TRANSITION TO FINAL CONDITIONS AS SHOWN ON SHEET C370.

GRADING LEGEND

| 999—— | FINISHED | GRADE | MAJOR | CONTOUR |
|------------------------------|----------|-------|-------|---------|
| 999 | FINISHED | GRADE | MINOR | CONTOUR |
| <i>— — —999</i> — <i>— —</i> | EXISTING | GRADE | MAJOR | CONTOUR |
| — — —999— — — | EXISTING | GRADE | MINOR | CONTOUR |



RELEASED FOR CONSTRUCTION As Noted on Plan Review

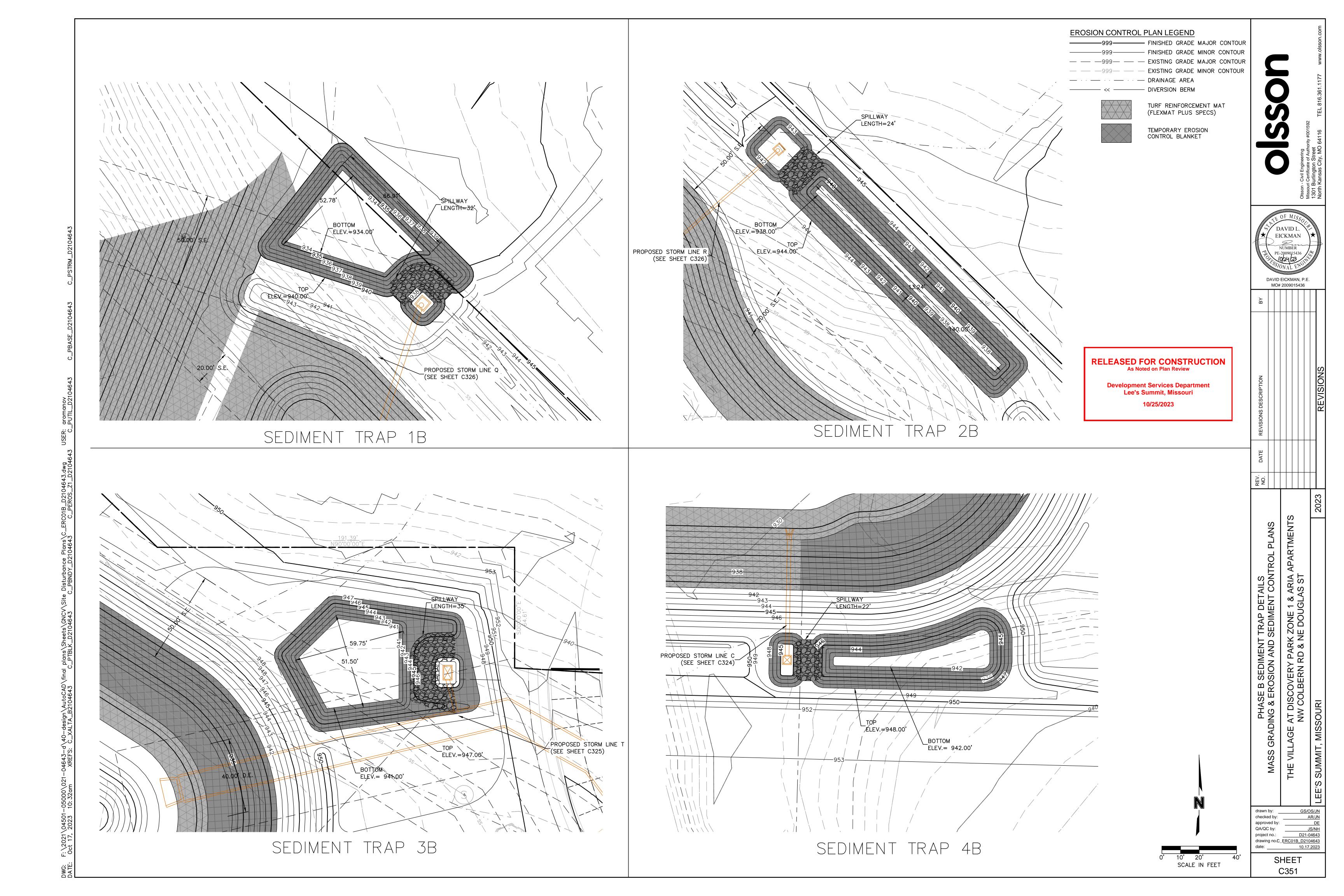
> **Development Services Department** Lee's Summit, Missouri 10/25/2023

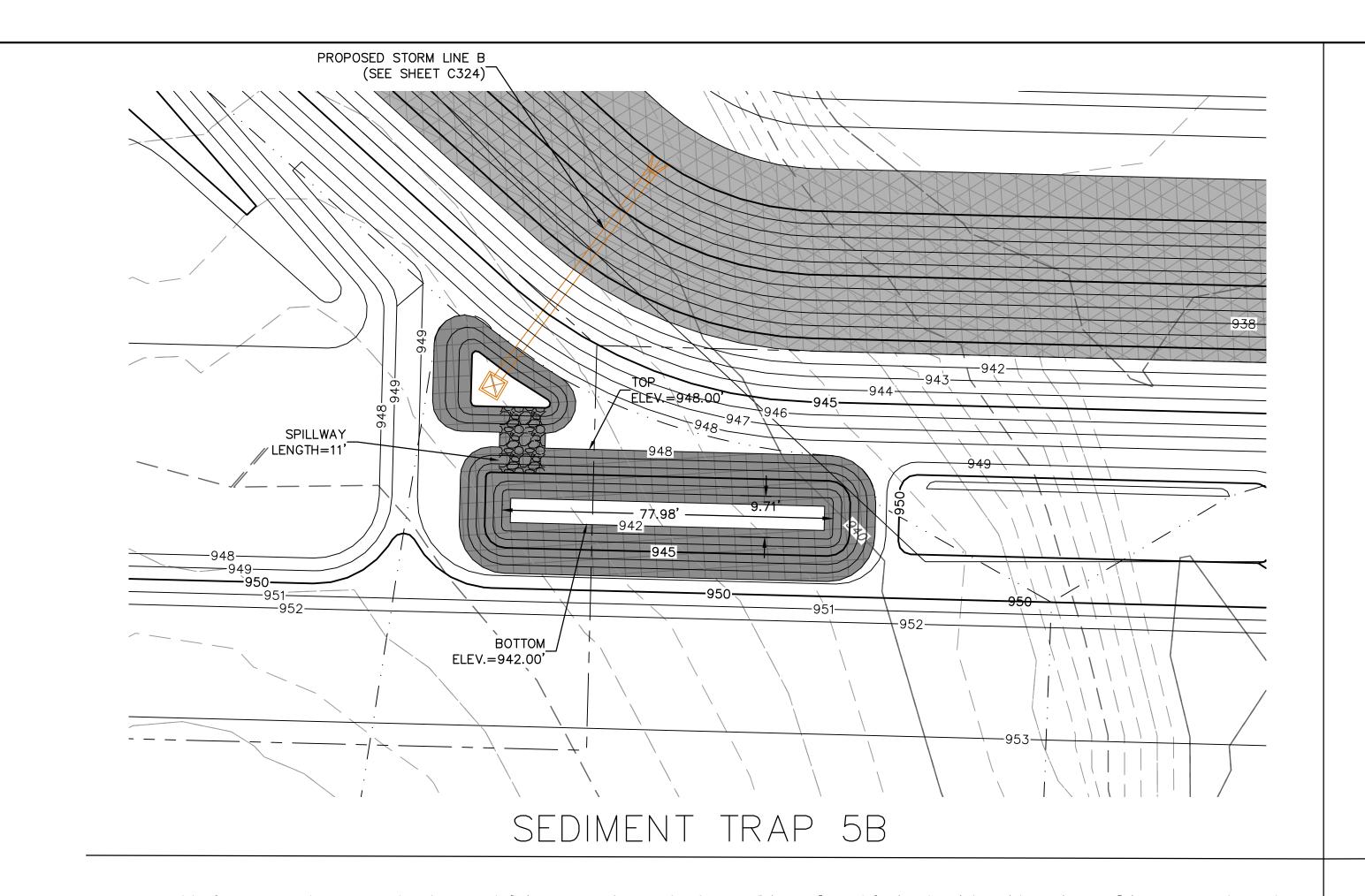
| PROJECT PHASE | EROSION CONTROL BMP REFERENCE NO. | BMP DESCRIPTION | REMOVE AFTER PHASE | NOTES: |
|--|--------------------------------------|---|-----------------------|---|
| | A1 | CONSTRUCTION ENTRANCE | D | INSTALL PER APWA DETAIL ESC-01, PRIOR TO PERFORMING ANY OTHER ACTIVITIES ON SITE |
| | A2 | CONCRETE WASHOUT | D | INSTALL PER APWA DETAIL ESC-01, PRIOR TO PERFORMING ANY OTHER ACTIVITIES ON SITE |
| A — PRE-MASS GRADING | А3 | SILT FENCE | D | INSTALL PER APWA DETAIL ESC-03, PRIOR TO PERFORMING ANY OTHER ACTIVITIES ON SITE |
| | A4 | DIVERSION BERM | | INSTALL PER APWA DETAIL ESC-05, AND CONTRACTOR SHALL ADJUST AS NECESSARY THROUGHOUT CONSTRUCTION TO ENSURE SEDIMENT REMAINS CONTROLLED ON SITE. |
| | A5 | SEDIMENT TRAP | D | INSTALL PER APWA DETAILS ESC-08 |
| | A6 | ROCK CHECK DAM | D | INSTALL PER APWA DETAIL ESC-10 |
| EXCESSIVE SETTLING THAT | B1 | G FOUNDATIONS. EROSION CONTROL BLANKET/TRM | D | INSTALL PER APWA DETAIL ESC-02 |
| UPON REMOVAL CONTRACTOR EXCESSIVE SETTLING THAT CO | B2 | SILT FENCE | D | INSTALL PER APWA DETAIL ESC-03 |
| | В3 | DIVERSION BERM | D | INSTALL PER APWA DETAIL ESC-05 |
| | B4 | SEDIMENT TRAP | D | INSTALL PER APWA DETAIL ESC-08 |
| | B5 | AREA INLET PROTECTION | D | INSTALL PER APWA DETAIL ESC-07 |
| | B6 | ROCK CHECK DAM | D | INSTALL PER APWA DETAIL ESC-10 |
| | В7 | SLOPE INTERUPTS | D | INTALL PER APWA DETAIL ESC-09 OR APPROVED EQUAL |
| | B7 | | | |
| | | LLED EROSION CONTROL DEVICES | | |

EICKMAN DAVID EICKMAN, P.E. MO# 2009015436

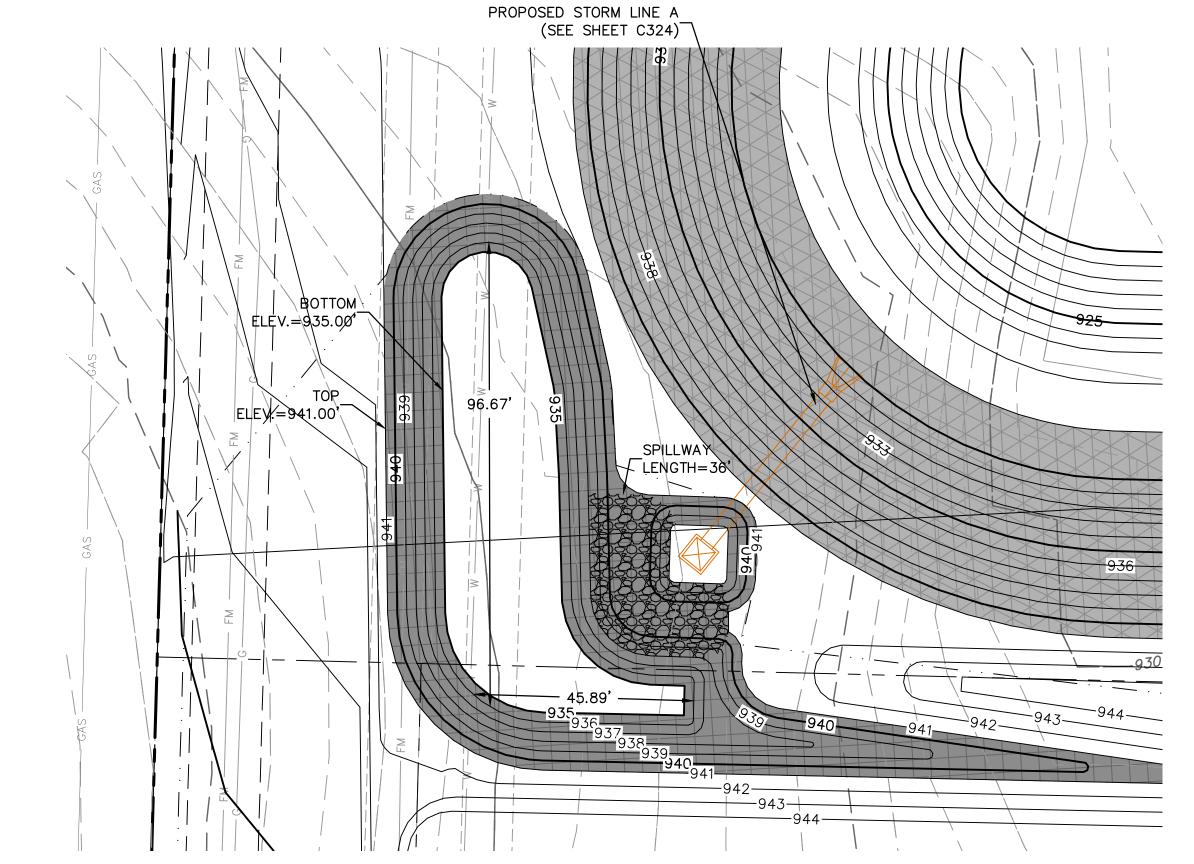
| | ONTROL PLANS | | | | | | 2023 REVISIONS |
|---------------------------|-----------------------------|--|------------------------------|-----------|-------------------------|--|----------------|
| ON CONTROL PLAN (PHASE B) | ROSION AND SEDIMENT CONTROL | | OVERY PARK 70NF 1 & ARIA APA | 3 - 1 - 1 | BERN RD & NE DOUGLAS ST | | |

drawn by: GS/OS/JN checked by: AR/JN approved by: QA/QC by: JS/NH project no.: D21-04643 drawing no.: C_ERC02_D2104643 date: 10.17.2023





TOP_ ELEV.=927.00



SEDIMENT TRAP 6B

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Development Services Department Lee's Summit, Missouri 10/25/2023

NOTES

1. THE SITE DISTURBANCE PLANS INDICATE THE FINAL PLACEMENT OF EROSION CONTROL

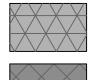
1. THE SITE DISTURBANCE PLANS INDICATE THE FINAL PLACEMENT OF EROSION CONTROL

1. THE SITE DISTURBANCE PLANS INDICATE THE FINAL PLACEMENT OF EROSION CONTROL DEVICES. THE CONTRACTOR(S) MAY PROCEED WITH THE CONSTRUCTION PRIOR TO FINAL PLACEMENT OF THESÈ DEVICES BY PROVIDING ADDITIONAL DEVICES O CONTROL EROSION ON THEIR ITEMS OF WORK. THESE DEVICES SHALL BE MAINTAINED UNTIL THE FINAL DEVICES ARE IN PLACE.

2. ALL EROSION CONTROL DEVICES SHALL BE INSTALLED PER THE AMERICAN PUBLIC WORKS ASSOCIATION, KANSAS CITY METRO CHAPTER DIVISION III STANDARD DRAWINGS, EROSION AND SEDIMENT CONTROL, 2016 VERSION.

EROSION CONTROL PLAN LEGEND

—999——— FINISHED GRADE MAJOR CONTOUR —999——— FINISHED GRADE MINOR CONTOUR — — —999— — EXISTING GRADE MAJOR CONTOUR —999— — EXISTING GRADE MINOR CONTOUR — · · · — · · — DRAINAGE AREA - << ---- DIVERSION BERM



TURF REINFORCEMENT MAT (FLEXMAT PLUS SPECS)

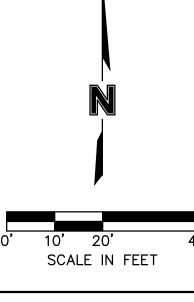
TEMPORARY EROSION CONTROL BLANKET

| SEDIMENT | TRAP | 7B | |
|----------|------|----|--|
| | | | |

// SPILLWAY
/ LENGTH≠65.00'

_BOTTOM\ ELEV.=922.00'

| TRAP | TRIBUTARY AREA (AC.) | REQUIRED VOLUME (C.F.) | BERM HEIGHT "H" (FT.) | SPILLWAY HEIGHT "HO" (FT.) | STORAGE VOLUME (C.F.) | BERM TOP WIDTH "W" (FT.) | BOTTOM ELEVATION (FT.) | RIPRAP ELEVATION (FT.) | TOP OF BERM ELEVATION (FT.) | SPILLWAY LENGTH (FT.) | EXCAVATED DEPTH (FT.) | EXCAVATED VOLUME (C.F.) | SEDIMENT CLEANOUT VOLUME (C.F.) | SEDIMENT CLEANOUT ELEVATION (FT.) |
|------|----------------------------|------------------------------|-----------------------------|-------------------------------------|-----------------------------|--------------------------------|------------------------------|------------------------------|--------------------------------------|-----------------------------|-----------------------------|-------------------------------|--|--|
| 1B | 5.26 | 9468.00 | 3.0 | 2.0 | 11330.23 | 2.5 | 934 | 939.00 | 940.00 | 32 | 2.0 | 2552.39 | 2266.05 | 935.07 |
| 2B | 3.90 | 7020.00 | 3.0 | 2.0 | 7671.54 | 2.5 | 938 | 943.00 | 944.00 | 24 | 2.0 | 1586.32 | 1534.31 | 939.55 |
| 3B | 5.70 | 10260.00 | 3.0 | 2.0 | 11310.59 | 2.5 | 941 | 946.00 | 947.00 | 35 | 2.0 | 2524.23 | 2262.12 | 942.05 |
| 4B | 3.53 | 6354.00 | 3.0 | 2.0 | 5023.13 | 2.5 | 943 | 948.00 | 949.00 | 22 | 2.0 | 1061.98 | 1004.63 | 944.37 |
| 5B | 1.79 | 3222.00 | 3.0 | 2.0 | 4531.10 | 2.5 | 942 | 947.00 | 948.00 | 11 | 2.0 | 931.18 | 906.22 | 943.56 |
| 6B | 5.86 | 10548.00 | 3.0 | 2.0 | 13902.40 | 2.5 | 935 | 940.00 | 941.00 | 36 | 2.0 | 3122.75 | 2780.48 | 936.08 |
| 7B | 9.74 | 17532.00 | 3.0 | 2.0 | 25790.63 | 2.5 | 936 | 941.00 | 942.00 | 59 | 2.0 | 3742.39 | 5158.13 | 936.83 |



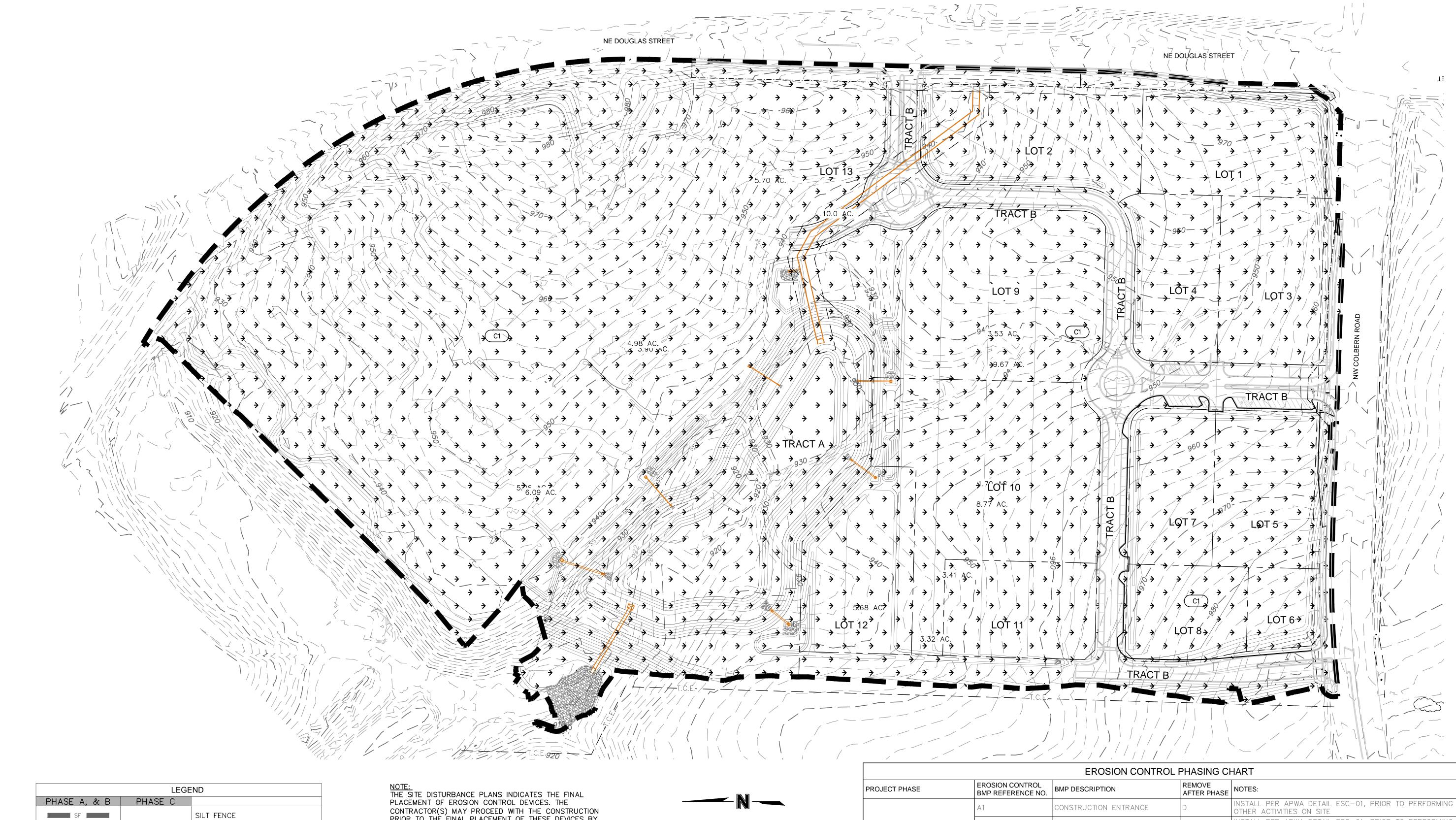
| | | | | | | O | 2 | _ | |
|-----------|-----|------------|-------------------------------|-----|------------------|------------|------|---|--|
| * PROMINE | DAV | EI PE- S/(| CK NUI 200 ON EIC | MBi | ER 1543 EV | 36 N, P | L.E. | * | |
| ВҮ | | | | | | | | | |

| | | 9 | DATE | REVISIONS DESCRIPTION | ш |
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| PLANS | | | | | |
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| | 2023 | | | REVISIONS | |

AT DISCOVERY PARK ZONE 1 & ARIA NW COLBERN RD & NE DOUGLAS ST GS/OS/JN checked by: AR/JN approved by:

QA/QC by: JS/NH project no.: D21-04643 drawing no.C_ERC01B_D2104643 date: 10.17.2023 SHEET

C352



| | LEGE | END |
|--------------|---------------------------------------|--|
| PHASE A, & B | PHASE C | |
| SF SF | | SILT FENCE |
| | | TEMPORARY DIVERSION BERM |
| | | CONCRETE WASHOUT |
| | | TEMPORARY STONE CONSTRUCTION ENTRANCE |
| | | DRAINAGE AREA TO BASIN/TRAP |
| | | LIMITS OF DISTURBANCE |
| | * * * * * * * * * * * * * * * * * * * | SEEDING AND STABILIZATION |

GRADING LEGEND

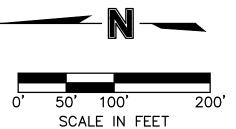
| | 999 | | FINISHED | GRADE | MAJOR | CONTOUR | |
|---|-----------|---|----------|-------|-------|---------|--|
| | 999 | | FINISHED | GRADE | MINOR | CONTOUR | |
| _ | — —999— — | — | EXISTING | GRADE | MAJOR | CONTOUR | |
| | — —999— — | | EXISTING | GRADE | MINOR | CONTOUR | |

PRIOR TO THE FINAL PLACEMENT OF THESE DEVICES BY PROVIDING ADDITIONAL DEVICES TO CONTROL EROSION ON THEIR ITEMS OF WORK. THESE DEVICES SHALL BE MAINTAINED UNTIL THE FINAL DEVICES ARE IN PLACE.

CONTRACTOR TO KEEP SWPPP REPORTS AND MDNR PERMIT IN THE ON-SITE CONSTRUCTION OFFICE TRAILER. TRAILER LOCATION TO BE DETERMINED BY CONTRACTOR

SEDIMENT TRAPS MUST BE FULLY INSTALLED PRIOR TO ANY SITE DISTURBANCE WITHIN THE TRIBUTARY AREA.

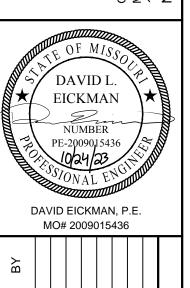
SEDIMENT TRAPS ARE SHOWN AS NEEDED PRIOR TO DISTURBING THE SITE. CONTRACTOR IS RESPONSIBLE FOR CONTROLLING ALL SEDIMENT RUNOFF DURING TRANSITION TO FINAL CONDITIONS AS SHOWN ON THIS SHEET.



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> **Development Services Department** Lee's Summit, Missouri 10/25/2023

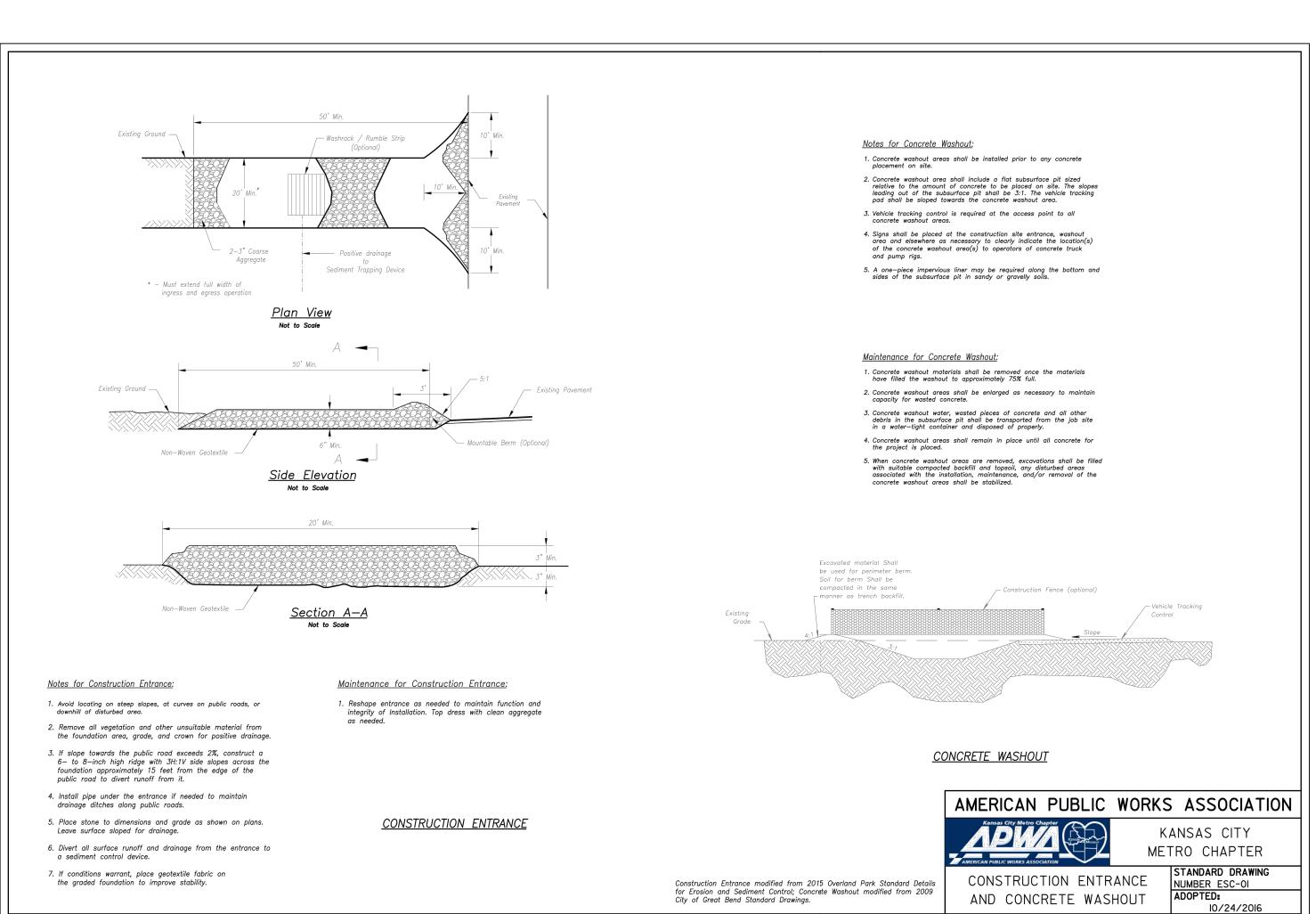
| | | EROSION CONTROL | PHASING CH | HART |
|---|--------------------------------------|---|-----------------------|---|
| PROJECT PHASE | EROSION CONTROL BMP REFERENCE NO. | BMP DESCRIPTION | REMOVE AFTER PHASE | NOTES: |
| | A1 | CONSTRUCTION ENTRANCE | D | INSTALL PER APWA DETAIL ESC-01, PRIOR TO PERFORMING ANY OTHER ACTIVITIES ON SITE |
| | A2 | CONCRETE WASHOUT | D | INSTALL PER APWA DETAIL ESC-01, PRIOR TO PERFORMING ANY OTHER ACTIVITIES ON SITE |
| A - PRF-MASS GRADING | А3 | SILT FENCE | D | INSTALL PER APWA DETAIL ESC-03, PRIOR TO PERFORMING ANY OTHER ACTIVITIES ON SITE |
| A THE IMPRODUCTION | A4 | DIVERSION BERM | D | INSTALL PER APWA DETAIL ESC-05, AND CONTRACTOR SHALL ADJUST AS NECESSARY THROUGHOUT CONSTRUCTION TO ENSURE SEDIMENT REMAINS CONTROLLED ON SITE. |
| | A5 | SEDIMENT TRAP | D | INSTALL PER APWA DETAIL ESC-08 |
| | A6 | ROCK CHECK DAM | D | INSTALL PER APWA DETAIL ESC-10 |
| | | | G ALL SILT, A | ND FILLING IN CONTROLLED LIFTS TO PREVENT VOIDS OR |
| UPON REMOVAL CONTRACTOR EXCESSIVE SETTLING THAT CO | B1 | EROSION CONTROL BLANKET/TRM | D | INSTALL PER APWA DETAIL ESC-02 |
| | B2 | SILT FENCE | D | INSTALL PER APWA DETAIL ESC-03 |
| | В3 | DIVERSION BERM | D | INSTALL PER APWA DETAIL ESC-05 |
| D INTEDIM | B4 | SEDIMENT TRAP | D | INSTALL PER APWA DETAIL ESC-08 |
| B - INTERIM | B5 | AREA INLET PROTECTION | D | INSTALL PER APWA DETAIL ESC-07 |
| | B6 | ROCK CHECK DAM | D | INSTALL PER APWA DETAIL ESC-10 |
| | B7 | SLOPE INTERUPTS | D | INTALL PER APWA DETAIL ESC-09 OR APPROVED EQUAL |
| | MAINTAIN ALL INSTA | LLED EROSION CONTROL DEVICES | • | |
| | C1 | ESTABLISH SEEDING AND STABILIZATION OUTSIDE OF SEDIMENT BASIN AND TRAPS | | SITE STABILIZATION PER LOCAL CODES AND ORDINANCES. AT A MINIMUM STABILIZATION SHALL CONFORM WITH APWA SECTION 2406. COORDINATE ALL STABILIZATION WITH EROSION CONTROL MEASURES INDICATED IN SITE DEVELOPMENT PLANS. |

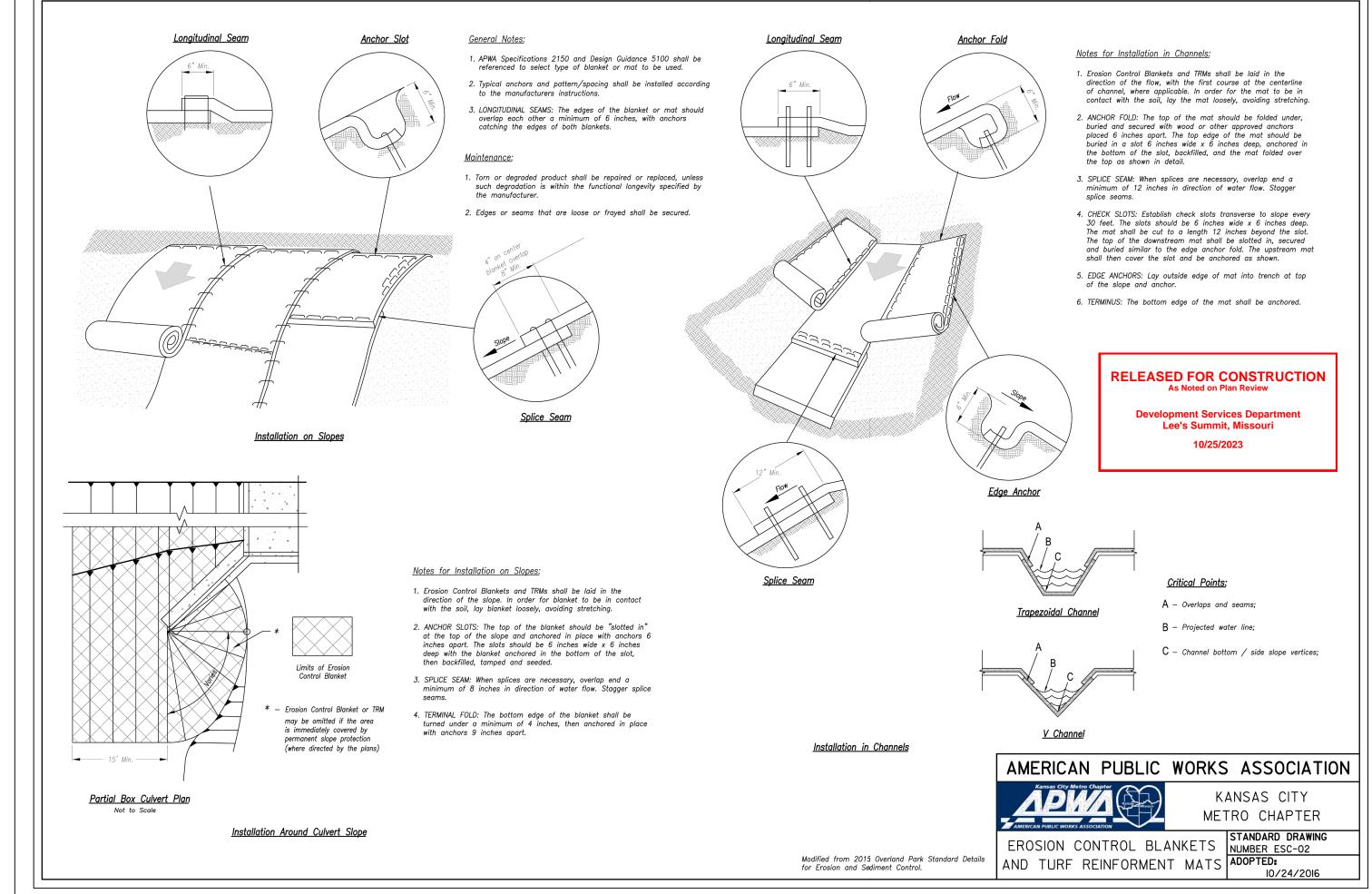


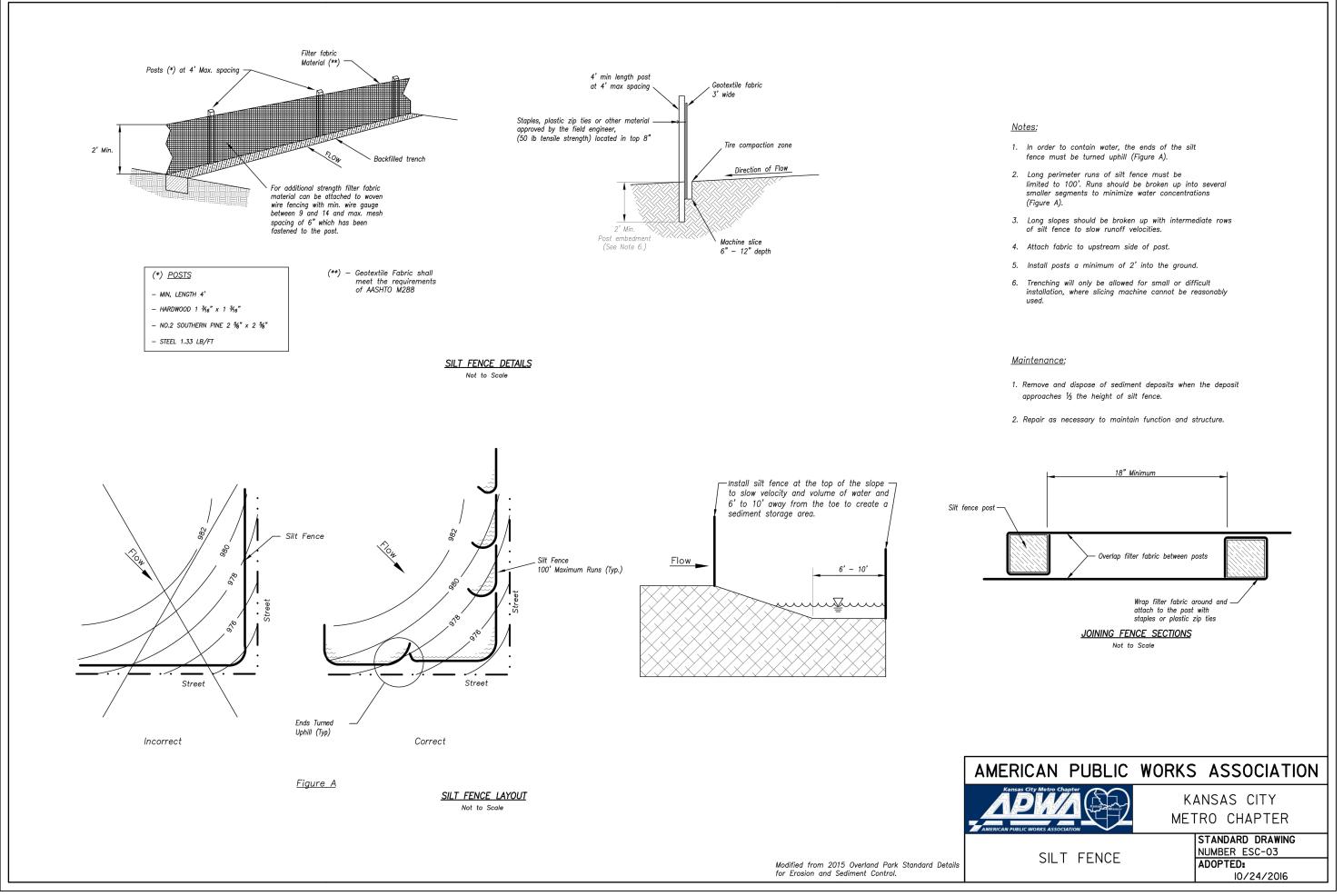
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| REVISIONS DESCRIPTION | | | | | REVISIONS | |
| DATE | | | | | | |
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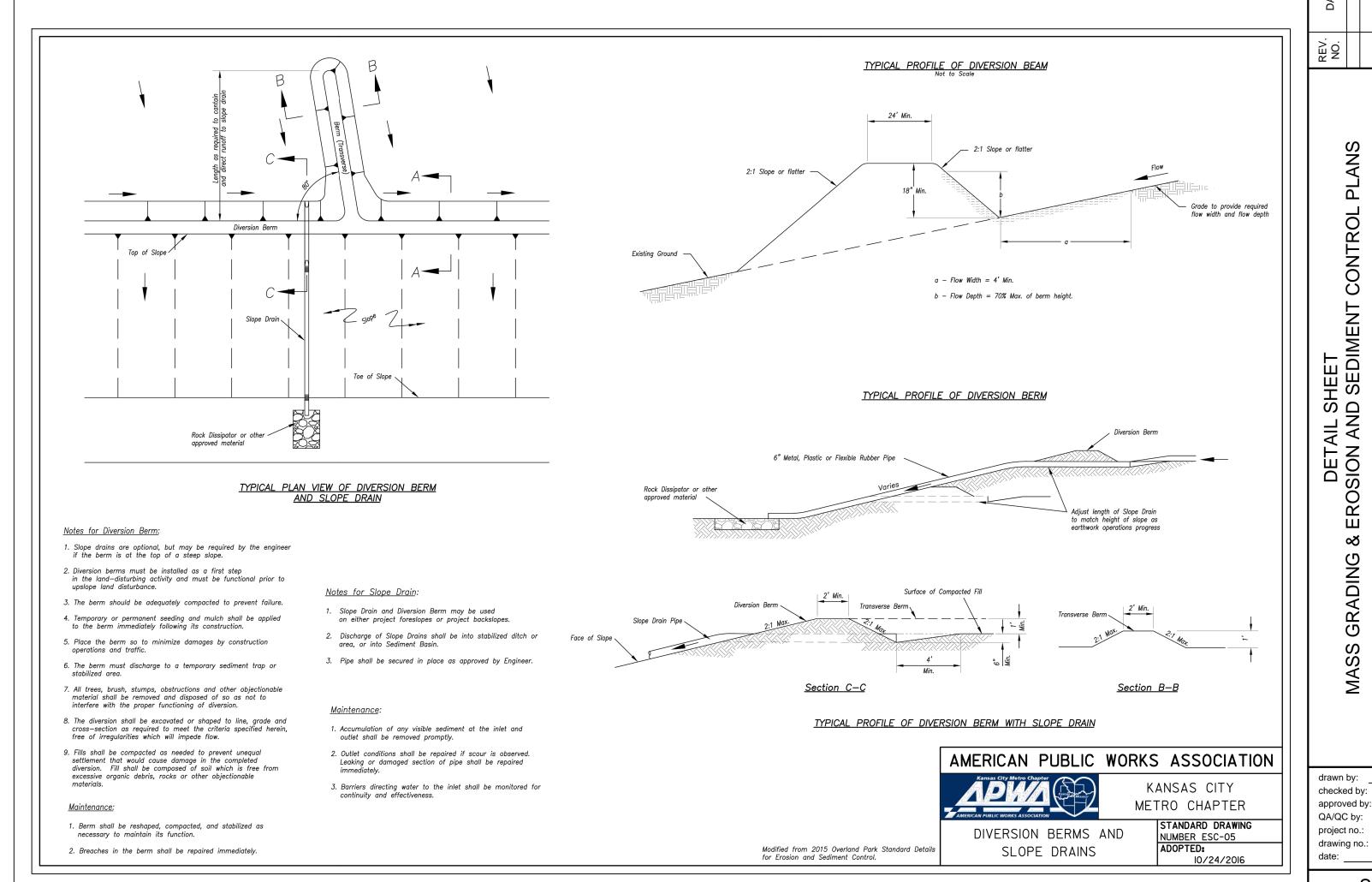
| | (0 | | |
|---|---|--------------------|--|
| EROSION CONTROL PLAN (PHASE C) MASS GRADING & EROSION AND SEDIMENT CONTROL PLANS | THE VILLAGE AT DISCOVERY PARK ZONE 1 & ARIA APARTMENTS NW COLBERN RD & NE DOUGLAS ST | S SUMMIT, MISSOURI | |

drawn by: GS/OS/JN checked by: AR/JN approved by: QA/QC by: ____JS/NH project no.: D21-04643 drawing no.C_ERC01C_D2104643 date: 10.17.2023









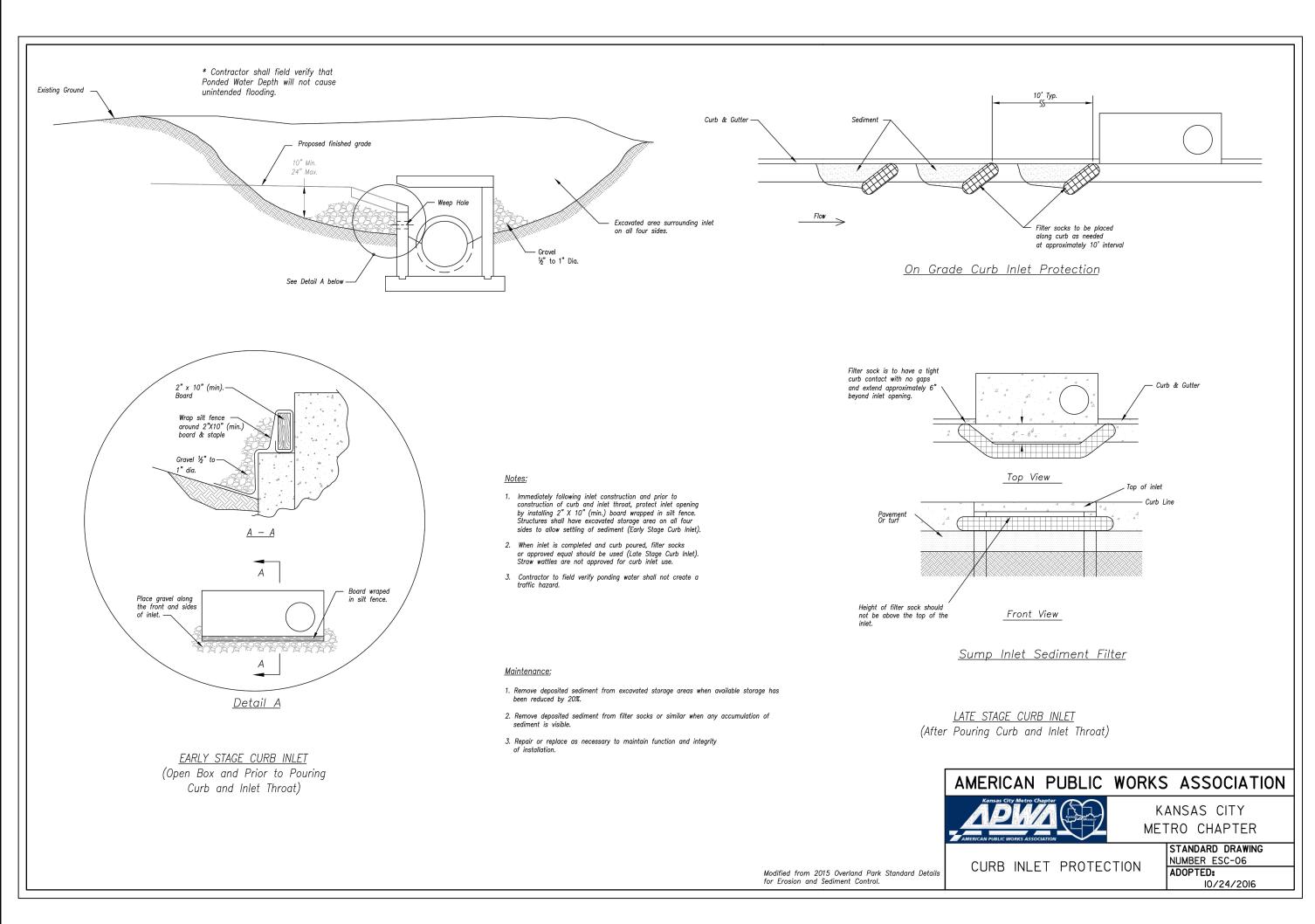
DAVID L **EICKMAN** NUMBER PE-2009015436 DAVID EICKMAN, P.E. MO# 2009015436

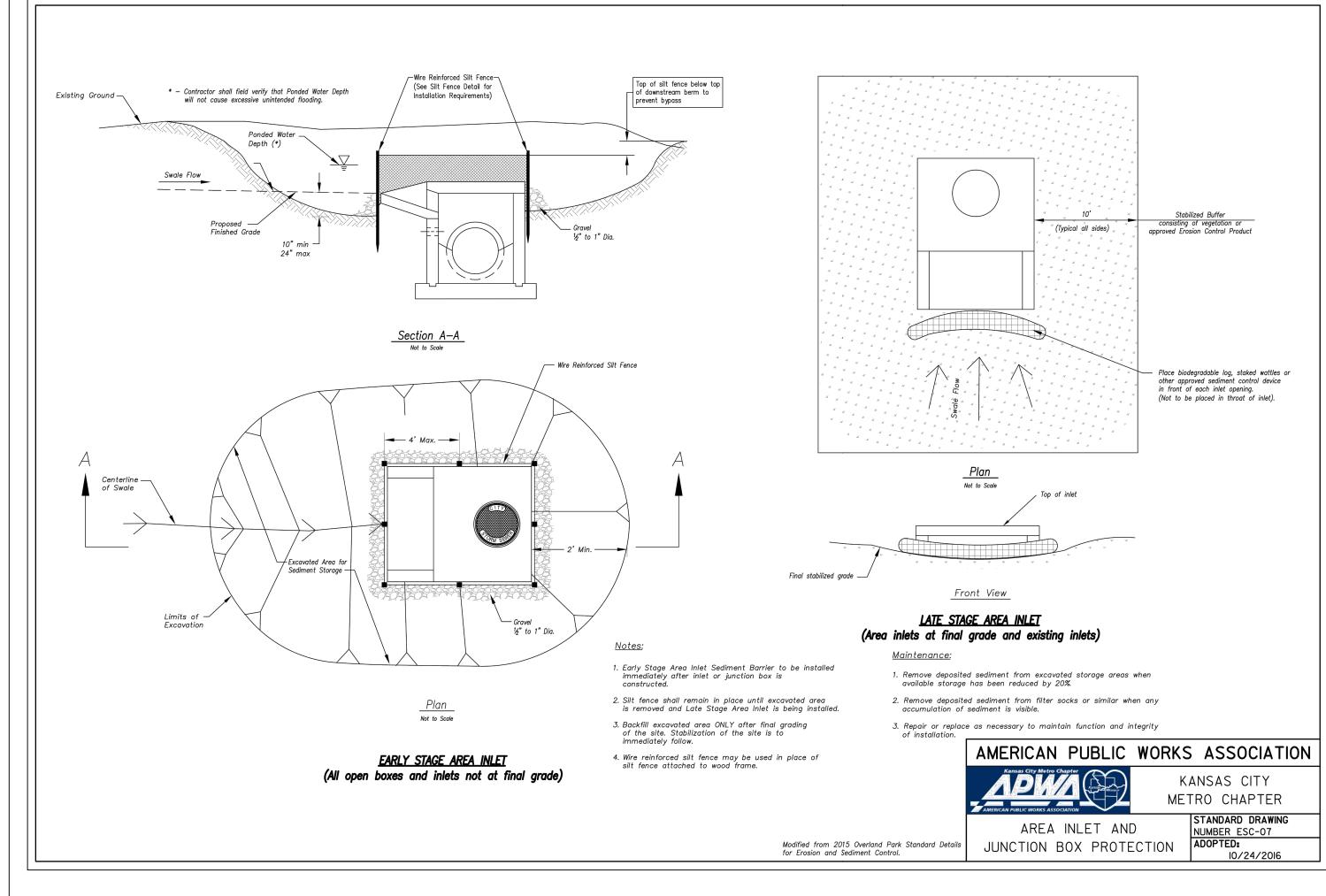
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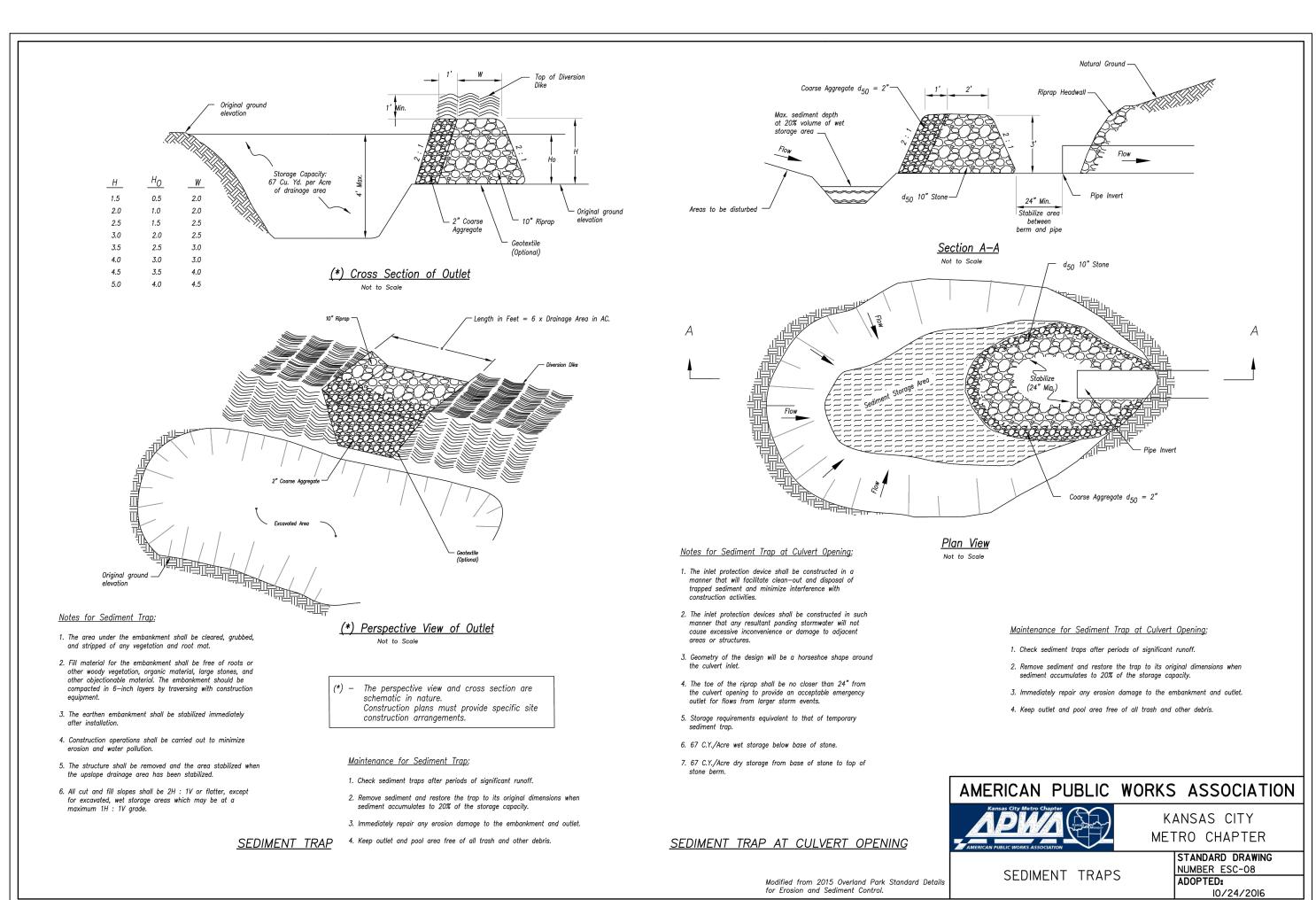
NT DISCOVERY PAR NW COLBERN RD &

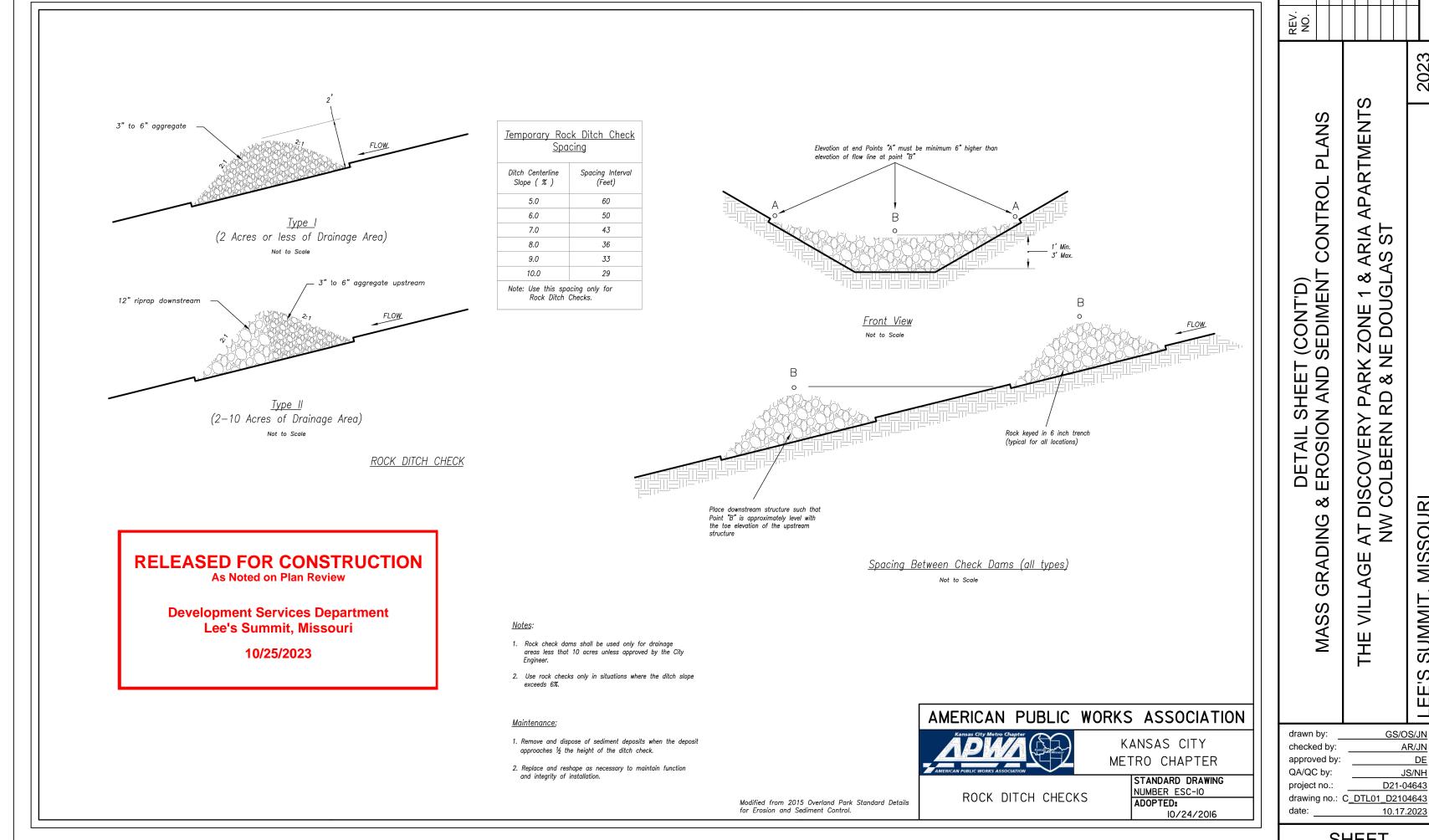
GS/OS/JN AR/JN JS/NH D21-04643 drawing no.: C_DTL01_D2104643

10.17.2023









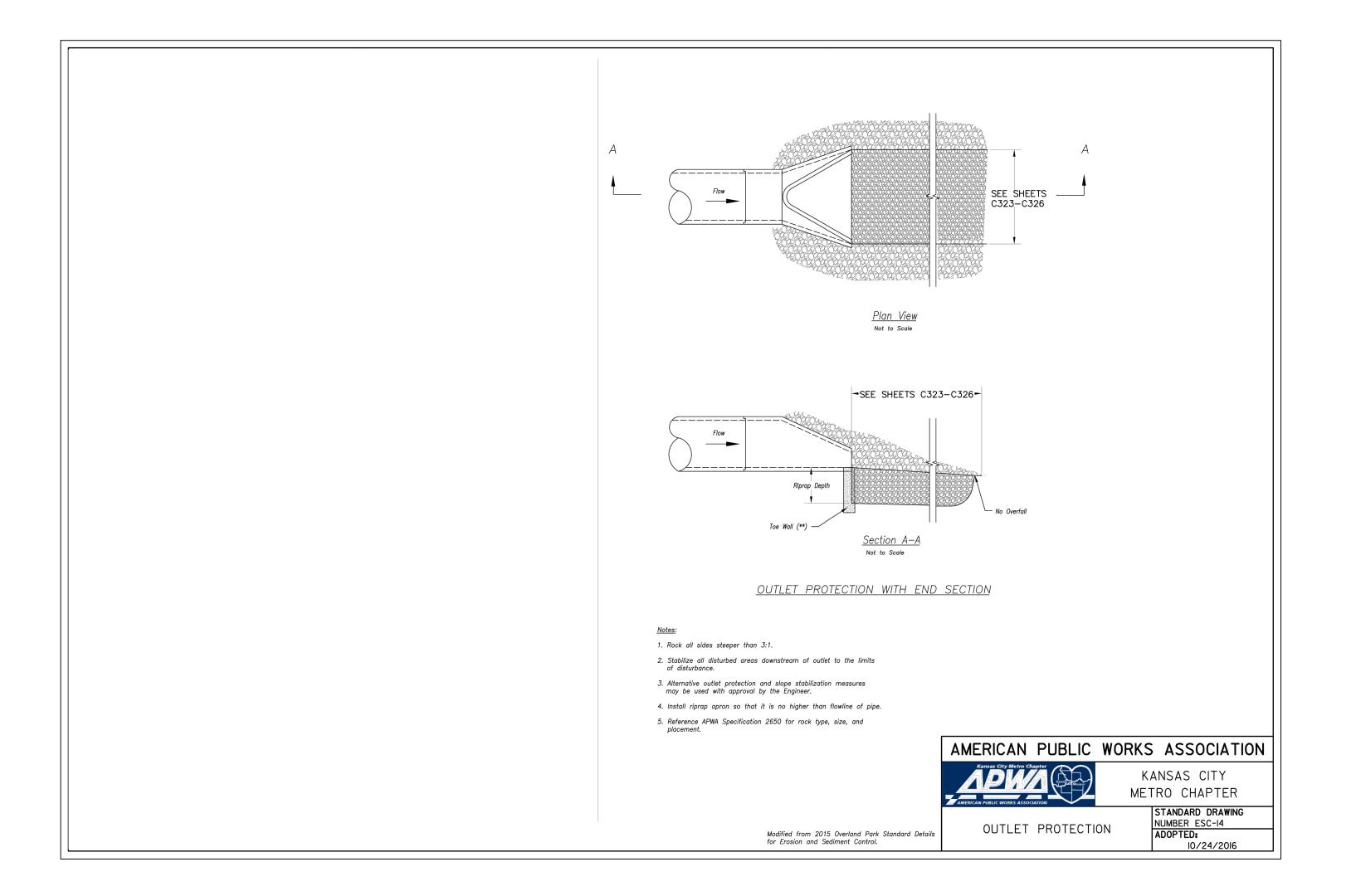
EICKMAN NUMBER DAVID EICKMAN, P.E. MO# 2009015436 IK ZONE 1 & NE DOUGLA (CONT'D) SEDIMENT DETAIL SHEET (EROSION AND S Y PARI I RD & AT DISCOVERY NW COLBERN F drawn by: GS/OS/JN AR/JN

JS/NH

D21-04643

RELEASED FOR CONSTRUCTION As Noted on Plan Review

Development Services Department Lee's Summit, Missouri 10/25/2023



son - Civil Engineering souri Certificate of Authority #001592

DAVID L.
EICKMAN

NUMBER
PE-2009015436

DAVID EICKMAN, P.E.
MO# 2009015436

| REV. DATE | | | | | | |
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| REVISIONS DESCRIPTION | | | | | REVISIONS | |
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DETAIL SHEET ((CONT'D))

1ASS GRADING & EROSION AND SEDIMENT CONTROL PLANS

E VILLAGE AT DISCOVERY PARK ZONE 1 & ARIA APARTMENT

NW COLBERN RD & NE DOUGLAS ST

IMMIT, MISSOURI

drawn by: GS/OS/JN
checked by: AR/JN
approved by: DE
QA/QC by: JS/NH
project no.: D21-04643
drawing no.: C_DTL01_D2104643
date: 10.17.2023