FOR

ORCHARD WOODS

IN THE CITY OF LEE'S SUMMIT, JACKSON COUNTY, MISSOURI

NE1/4

VICINITY MAP SEC. 9-48-31

GENERAL NOTES:

ADOPTED BY ORDINANCE 5813.

PRIOR TO CONSTRUCTION.

ALL CONSTRUCTION TO FOLLOW THE CITY OF LEE'S SUMMIT DESIGN AND CONSTRUCTION MANUAL AS

ALL WORKMANSHIP AND MATERIALS SHALL BE SUBJECT TO THE INSPECTION AND APPROVAL OF THE

LINEAL FOOT MEASUREMENTS SHOWN ON THE PLANS ARE HORIZONTAL MEASUREMENTS, NOT SLOPE

THE UTILITY LOCATIONS SHOWN ON THESE PLANS ARE TAKEN FROM UTILITY COMPANY RECORDS AND

THE CONTRACTOR SHALL ADHERE TO THE PROVISIONS OF THE SENATE BILL NUMBER 583, 78TH GENERAL

ASSEMBLY OF THE STATE OF MISSOURI. THE BILL REQUIRES THAT ANY PERSON OR FIRM DOING

INFORMATION FROM, UTILITY COMPANIES. STATE LAW REQUIRES 48 HOURS ADVANCE NOTICE. THE

PRIOR TO ORDERING PRECAST STRUCTURES, SHOP DRAWING SHALL BE SUBMITTED TO THE DESIGN

THE CONTRACTOR SHALL PROTECT ALL MAJOR TREES FROM DAMAGE. NO TREE SHALL BE REMOVED

12. THE CONTRACTOR SHALL CONTROL THE EROSION AND SILTATION DURING ALL PHASED OF CONSTRUCTION,

13. ALL MANHOLES, CATCH BASINS, UTILITY VALVES AND METER PITS TO BE ADJUSTED OR REBUILT TO GRADE

14. THE CONTRACTOR SHALL CONTACT THE CITY'S DEVELOPMENT SERVICES ENGINEERING INSPECTION TO

DISTURBANCE ACTIVITIES WITHIN THE RIGHT OF WAY. THESE ACTIVITIES MAY REQUIRE A PERMIT.

THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD-LATEST EDITION)

THE CONTRACTOR SHALL PROVIDE AND MAINTAIN ALL TRAFFIC HANDLING MEASURES NECESSARY TO

1. ALL STREET CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE CITY OF LEE'S

2. ALL INSPECTION OF STREET CONSTRUCTION TO BE PERFORMED BY THE CITY OF LEE'S SUMMIT

CURB RETURN RADII SHALL BE 25' AT BACK OF CURB UNLESS OTHERWISE NOTED.

10. ALL ADA SIDEWALK RAMPS SHALL BE CONSTRUCTED BY THE DEVELOPER WITH THE PUBLIC

SUBGRADE TO BE COMPACTED TO 95% STANDARD PROCTOR DENSITY.

MINIMUM K, SAG CURVE = 26 (14 WITH LIGHTING), CREST CURVE = 12.

SUMMIT DESIGN AND CONSTRUCTION MANUAL. ALL APPLICABLE AASHTO STANDARDS HAVE BEEN MET.

SCHEDULE A PRE-CONSTRUCTION MEETING WITH A FIELD ENGINEERING INSPECTOR PRIOR TO ANY LAND

THE CONTRACTOR SHALL CONTACT THE RIGHT OF WAY INSPECTOR AT 816-969-1800 PRIOR TO ANY LAND

ENSURE THAT THE GENERAL PUBLIC IS PROTECTED AT ALL TIMES. TRAFFIC CONTROL SHALL CONFORM TO

ENGINEER FOR APPROVAL. AFTER APPROVAL OF THE SHOP DRAWINGS, A COPY OF THE APPROVED AND

CLEARING AND GRUBBING OPERATIONS AND DISPOSAL OF ALL DEBRIS THEREFROM SHALL BE PERFORMED

EXCAVATION ON PUBLIC RIGHT OF WAY DO SO ONLY AFTER GIVING NOTICE TO, AND OBTAINING

WHICH HAVE FACILITIES IN THE NEAR VICINITY OF THE CONSTRUCTION TO BE PERFORMED.

SIGNED SHOP DRAWINGS SHALL BE PROVIDED TO THE CITY INSPECTOR UPON REQUEST.

BY THE CONTRACTOR IN STRICT ACCORDANCE WITH ALL LOCAL CODES AND ORDINANCES.

10. ALL WASTE MATERIAL RESULTING FROM THE PROJECT SHALL BE DISPOSED OF OFF-SITE BY THE

11. ALL EXCAVATIONS SHALL BE UNCLASSIFIED. NO SEPARATE PAYMENT WILL BE MADE FOR ROCK

APPARENT FIELD LOCATIONS. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES

CONTRACTOR MAY ALSO UTILIZE THE FOLLOWING TOLL FREE PHONE NUMBER PROVIDED BY "MISSOURI ONE

CALL SYSTEM, INC.": 1-800-DIG-RITE. THIS PHONE NUMBER IS APPLICABLE ANYWHERE WITHIN THE STATE OF

MISSOURI. PRIOR TO COMMENCEMENT OF WORK, THE CONTRACTOR SHALL NOTIFY ALL THOSE COMPANIES

MEASUREMENTS. ALL PAYMENTS SHALL BE MADE ON HORIZONTAL MEASUREMENTS.

ENGINEERING DEPARTMENT OF THE CITY OF LEE'S SUMMIT, MISSOURI

NO GEOLOGICAL INVESTIGATION HAS BEEN PERFORMED ON THE SITE.

WITHOUT PERMISSION OF THE OWNER, UNLESS SHOWN OTHERWISE.

CONTRACTOR, OR AS DIRECTED BY THE OWNER.

DISTURBANCE WORK AT (816) 969-1200

STREET NOTES:

DEVELOPMENT ENGINEERING.

9. SSD = STOPPING SIGHT DISTANCE.

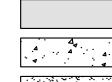
ASSUMED DESIGN SPEED = 25 MPH (COLLECTOR).

MINIMUM STOPPING SIGHT DISTANCE = 155 FEET.

GRADE INTERSECTIONS TO DRAIN AS SHOWN.

AND SHALL KEEP THE STREETS CLEAN OF MUD AND DEBRIS.

2' CURB & GUTTER



ASPHALT PAVEMENT

CONCRETE SIDEWALK

UTILITY COMPANIES:

LEE'S SUMMIT, MO 64082

MISSOURI GAS ENERGY (816) 969-2218 LUCAS WALLS (LUCAS.WALLS@SUG.COM) 3025 SOUTHEAST CLOVER DRIVE

(816) 347-4339 PHILLIP INGRAM (PHILLIP.INGRAM@KCPL.COM)

RON DEJARNETTE (RON.DEJARNETTE@KCPL.COM) (816) 347-4316 1300 HAMBLEN ROAD LEE'S SUMMIT, MO 64081

STORM SEWER (PUBLIC WORKS DEPARTMENT) (816) 969-1800 220 SE GREEN STREET LEE'S SUMMIT, MO 64063

SANITARY SEWER & WATER (WATER UTILITIES DEPT.) (816)-969-1900 1200 SE HAMBLEM ROAD. LEE'S SUMMIT, MO 64081

AT&T (913) 383-4929

MR. CLAYTON ANSPAUGH (CA4089@ATT.COM) (913) 383-4849-FAX 9444 NALL AVENUE

OVERLAND PARK, KANSAS 66207

VISUAL INDICATIONS OF UTILITIES ARE AS SHOWN. UNDERGROUND LOCATIONS SHOWN, AS FURNISHED BY THEIR LESSORS, ARE APPROXIMATE AND SHOULD BE VERIFIED IN

THE FIELD AT THE TIME OF CONSTRUCTION. FOR ACTUAL FIELD LOCATIONS OF UNDERGROUND UTILITIES CALL 811.

EARTHWORK

It is recommended that a Geotechnical Engineer observe and document all earthwork activities. Contours have been shown at 1-foot or 2-foot intervals, as indicated. Grading shall consist of completing the earthwork required to bring the physical ground elevations of the existing site to the finished grade (or sub-grade) elevations provided

on the plans as spot grades, contours or others means as indicated on the plans. The existing site topography depicted on the plans by contouring has been established by aerial photography and field verified by g.p.s. observation near 2-20-19. The contour elevations provided may not be exact ground elevations, but rather interpretations of such. Accuracy shall be considered to be such that not more than 10 percent of spot elevation checks shall be in error by more than one-half the contour interval provided, as defined by the National Map Accuracy Standards. Any quantities provided for earthwork volumes are established using this topography contour accuracy, and therefore the inherent accuracy of any earthwork quantity is assumed from the topography accuracy.

Proposed contours are to approximate finished grade. Unless otherwise noted, payment for earthwork shall include backfilling of the curb and gutter, sidewalk and further manipulation of utility trench spoils. The site shall be left in a mowable condition and positive drainage maintained throughout.

Pollution Prevention plan and/or the Erosion and Sediment Control Plan prepared for this site.

6. Unless otherwise noted, all earthwork is considered Unclassified. No additional compensation will be provided for rock or shale excavation, unless specifically stated otherwise. Prior to earthwork activities, pre-disturbance erosion and sediment control devices shall be in place per the Storm Water

All topsoil shall be stripped from all areas to be graded and stockpiled adjacent to the site at an area specified by the project owner or his appointed representative. Vegetation, trash, trees, brush, tree roots and limbs, rock fragments greater then 6-inches and other deleterious materials shall be removed and properly disposed of offsite or as directed by the owner

or his appointed representative. Unless otherwise specified in the Geotechnical Report, all fills shall be placed in maximum 6-inch lifts and compacted to 95-percent of maximum density as defined using a standard proctor test (AASHTO T99/ASTM 698).

10. Fill materials shall be per Geotechnical Report and shall not include organic matter, debris or topsoil. All fills placed on

slopes greater than 6:1 shall be benched. 11. The Contractor shall be responsible for redistributing the topsoil over proposed turf and landscaped areas to a minimum

depth of 6-inches below final grade. 12. All areas shall be graded for positive drainage. Unless noted otherwise the following grades shall apply:

a. Turf Areas – 2.5% Minimum, 4H:1V Maximum b. Paved Areas – 1.2% Minimum, 5% Maximum

13. All disturbed areas shall be fertilized, seeded and mulched immediately after earthwork activities have ceased. Seeding shall be per the Erosion and Sediment Control Plan and/or Landscape Plan. If not specified seeding shall be per APWA Section 2400, latest edition. Unless otherwise noted, seeding shall be subsidiary to the contract price for earthwork and grading activities.

14. All disturbed areas in the right-of-way shall be sodded.

15. Underdrains are recommended for all paved areas adjacent to irrigated turf and landscaped beds. Contractor shall adhere to the reporting requirements outlined in the Storm Water Pollution Prevention Plan (SWPPP) prepared for this project. Erosion and Sediment control devices shall be properly maintained and kept clean of silt and debris and in good working order. Additional erosion and sediment control measures shall be installed as required.

UTILITIES:

- 1. Existing utilities have been shown to the greatest extent possible based upon information provided to the Engineer. The contractor is responsible for contacting the respective utility companies and field locating utilities prior to construction and identifying any potential conflicts. All conflicts shall immediately be brought to the attention of the Engineer.
- 2. The contractor shall be responsible for coordinating any required utility relocations. Utilities damaged through the negligence of the contractor shall be repaired at the contractor's expense.
- 3. Contractor shall verify flow-lines and structure tops prior to construction, and shall notify Engineer of any discrepancies. Provide shop drawings for all precast and manufactured utility structures for review by the Engineer prior to construction of

4. Utility Separation: Waterlines shall have a minimum of 10 feet horizontal and 2 feet vertical separation from all sanitary sewer lines, manholes, and sanitary sewer service laterals, as measured from edge to edge. If minimum separations can not be obtained, concrete encasement of the sanitary line shall be required 10 feet in each direction of the conflict.

5. Payment for trenching, backfilling, pipe embedment, flowable fill, backfill materials, clean up, seeding, sodding and any other items necessary for the construction of the utility line shall be included in the contract price for the utility installation. 6. The Contractor shall be responsible for contacting respective utility companies 48-hours in advance for the inspection of

any proposed utility main extension or service line or service connection to any existing main. 7. Trench spoils shall be neatly placed onsite adjacent to the trench, and compacted to prevent saturation and excess

disposed of offsite. Materials may be wasted onsite at the direction of the Owner or his appointed representative. 8. All excavation is considered unclassified, unless noted otherwise. Unclassified excavation for utility trenching is subsidiary to the unit price provided for the pipe. Any quantity provided for rock excavation is estimated based on the best information provided to the Project Engineer. The Engineer has the authority to identify and define the physical characteristics to determine the classification. Unit price quantities for rock excavation will be paid at a trench width of the nominal pipe diameter of the installed main plus 18 inches. Contractor is required to dispose of excess rock from their trenches by disposing it in areas as specified by the Project Engineer.

sediment runoff. Unsuitable materials, excess rock and shale, asphalt, concrete, trees, brush etc. shall be properly

Development Services Department Lee's Summit, Missouri

02/15/2023

RELEASED FOR CONSTRUCTION

As Noted on Plan Review

PL2022322

PRSUBD 20230406

INDEX

COVER SHEET

PRE CONSTRUCTION EROSION CONTROL PLAN EROSION CONTROL PLAN

POST CONSTRUCTION EROSION CONTROL PLAN

EROSION CONTROL DETAILS

SEDIMENT BASIN DETAILS

PREPARED & SUBMITTED BY:

PHELPS ENGINEERING, INC. 1270 N. WINCHESTER OLATHE, KS 66061 913-393-1155 OFFICE 913-393-1166 FAX CONTACT: JUDD CLAUSSEN, P.E.

OWNER:

ENTRES DEVELOPMENT, LLC ATTN: DANIEL VILLANUEVA 424 NE BROCKTON DR LEE'S SUMMIT MO, 64064 (310) 760-6205

BENCHMARKS:

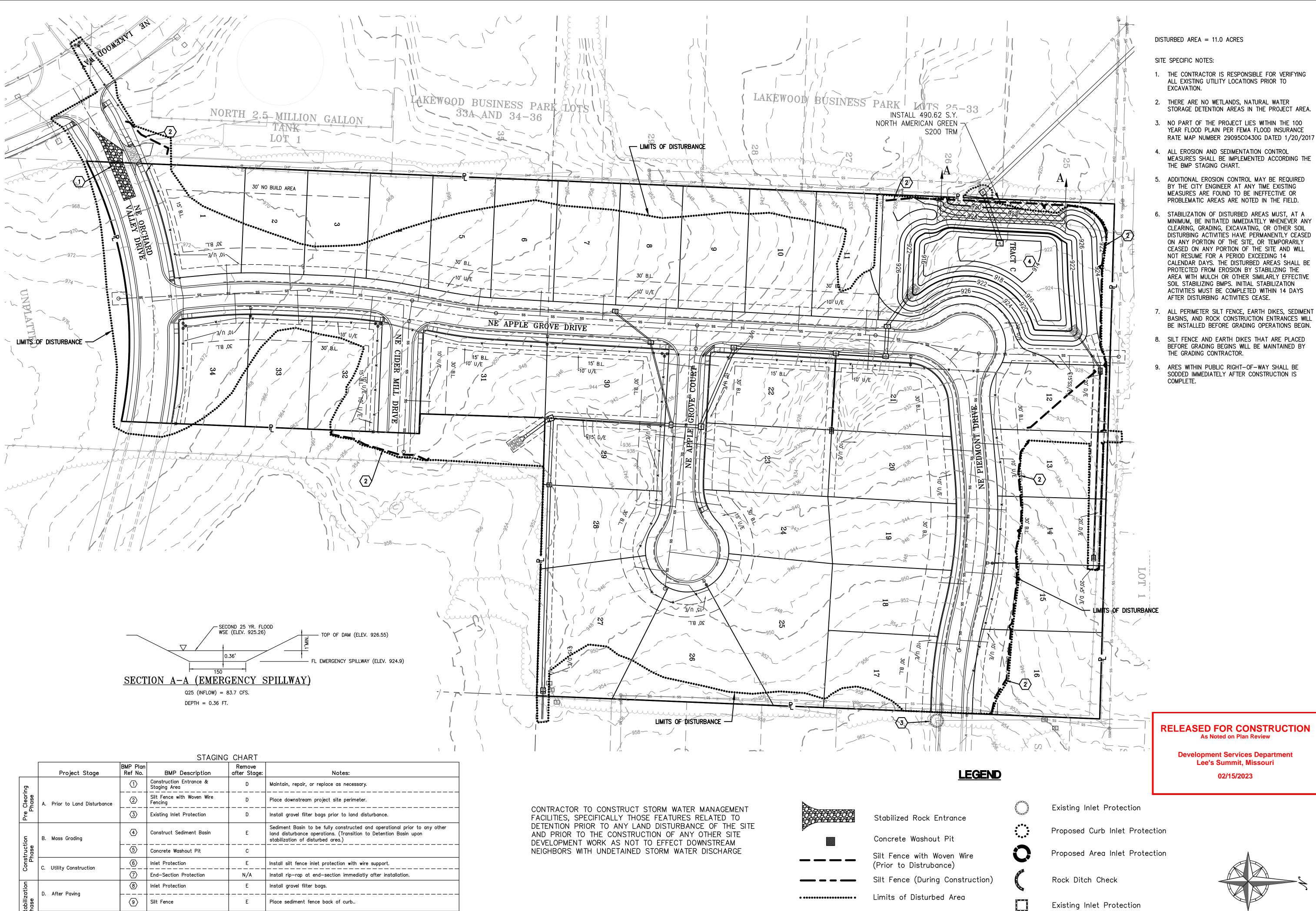
CENTER LINE FRONT FACE OF CURB INLET SOUTHEAST COR. OF INTERSECTION OF NE LAKEWOOD WAY, PRIVATE DRIVE FOR HOPE CHAPEL, AND PRIVATE DRIVE FOR LEE'S SUMMIT WATER TOWER. ELEVATION = 963.96

"+" CUT S.W. CORNER CURB INLET EAST SIDE OF INTERSECTION OF NE SUWANNEE DRIVE & NE PIEDMONT DRIVE ELEVATION=965.22



COVER





E. Until closure of Land

Disturbance Permit

Seed & Landscape Disturbed Area upon completion of construction.

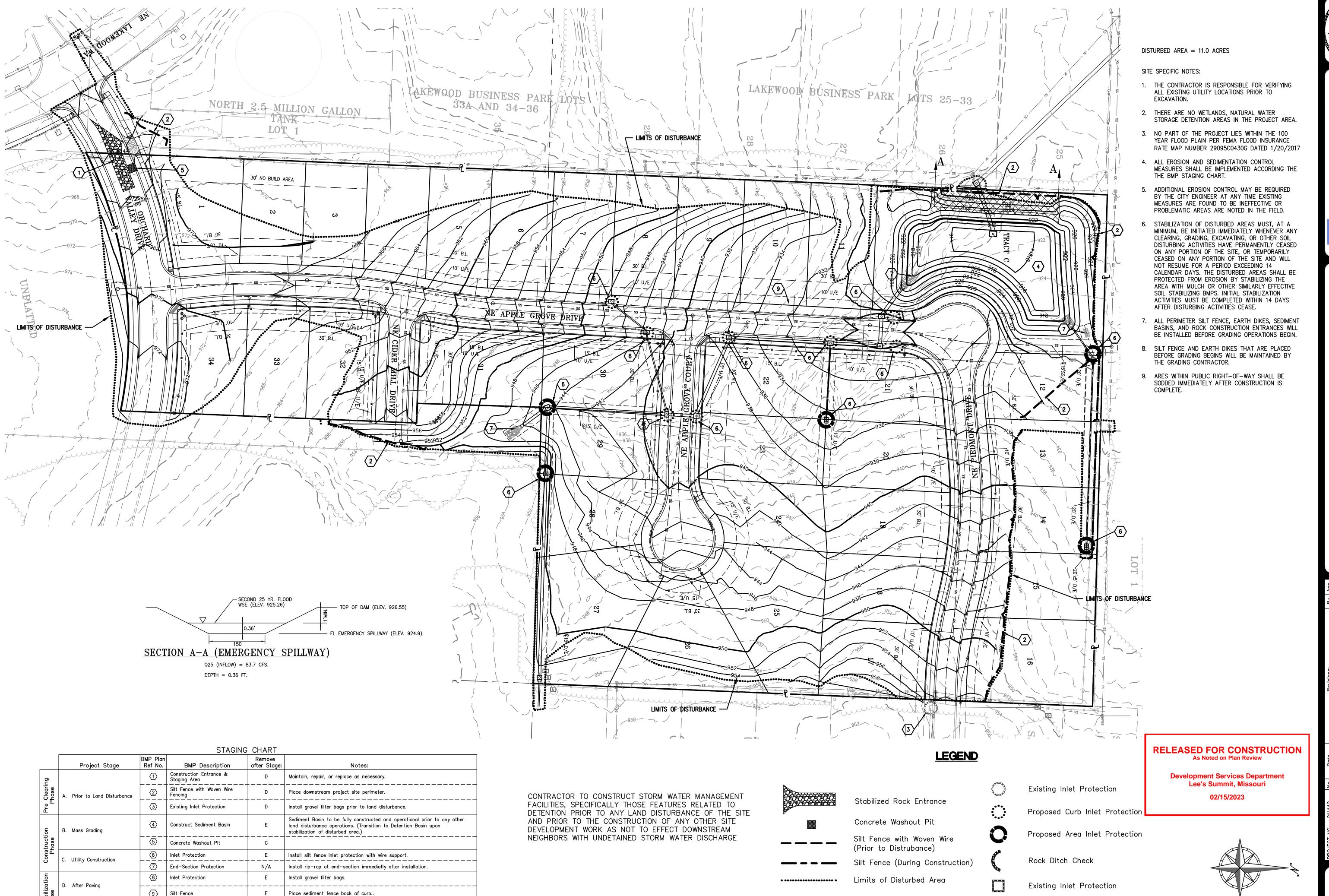
7. ALL PERIMETER SILT FENCE, EARTH DIKES, SEDIMENT BASINS, AND ROCK CONSTRUCTION ENTRANCES WILL BE INSTALLED BEFORE GRADING OPERATIONS BEGIN.

B. SILT FENCE AND EARTH DIKES THAT ARE PLACED BEFORE GRADING BEGINS WILL BE MAINTAINED BY THE GRADING CONTRACTOR.

O. ARES WITHIN PUBLIC RIGHT-OF-WAY SHALL BE SODDED IMMEDIATELY AFTER CONSTRUCTION IS

RELEASED FOR CONSTRUCTION As Noted on Plan Review

> **Development Services Department** Lee's Summit, Missouri 02/15/2023



E. Until closure of Land

Disturbance Permit

Seed & Landscape Disturbed Area upon completion of construction.

DOUGLAS EUGENE UBBEN, JR.
NUMBER PE-2011010998
01/25/2023

, INC.

HELPS ENGINEERING 1270 N. Winchester Olathe, Kansas 6606 (913) 393-1155

> ENGINEERING IMPLEMENTATION

PLANN

SOURI

HARD WOODS CKSON COUNTY, MISSO

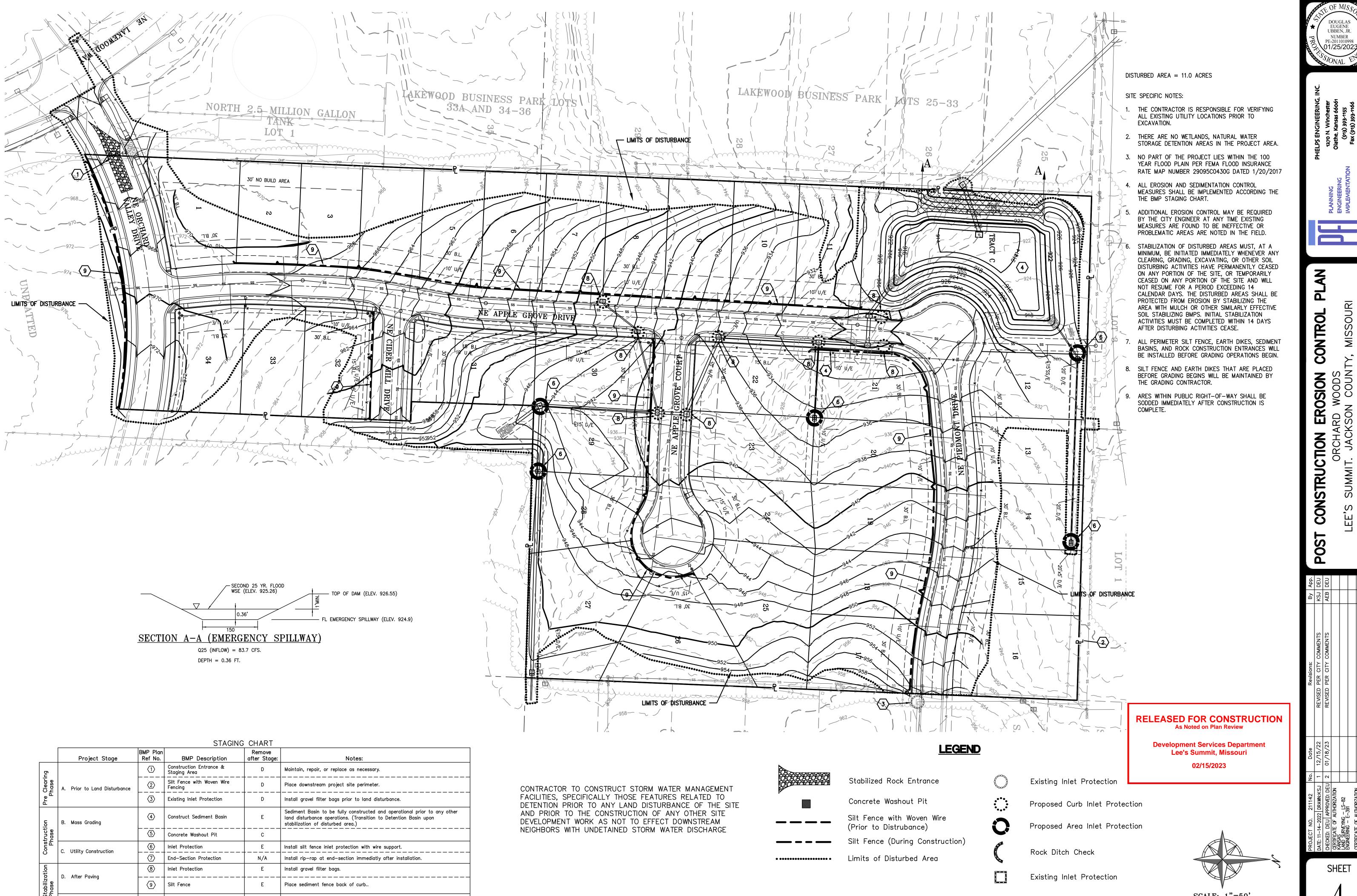
ORCHARI LEE'S SUMMIT. JACKS

 Date
 Revisions:
 By App

 /15/22
 REVISED PER CITY COMMENTS
 KSJ DEU

 /18/23
 REVISED PER CITY COMMENTS
 AEB DEU

DATE: 11–14–2022 | DRAWN:KSJ 1 12/15, CHECKED: DEU | APPROVED: DEU | 2 01/18, CERTIFICATE OF AUTHORIZATION KANSAS LAND SURCEING – LS-82 ENGINEERING – E-391 CERTIFICATE OF AUTHORIZATION MISSOURI AND SURVEYING-2007001128



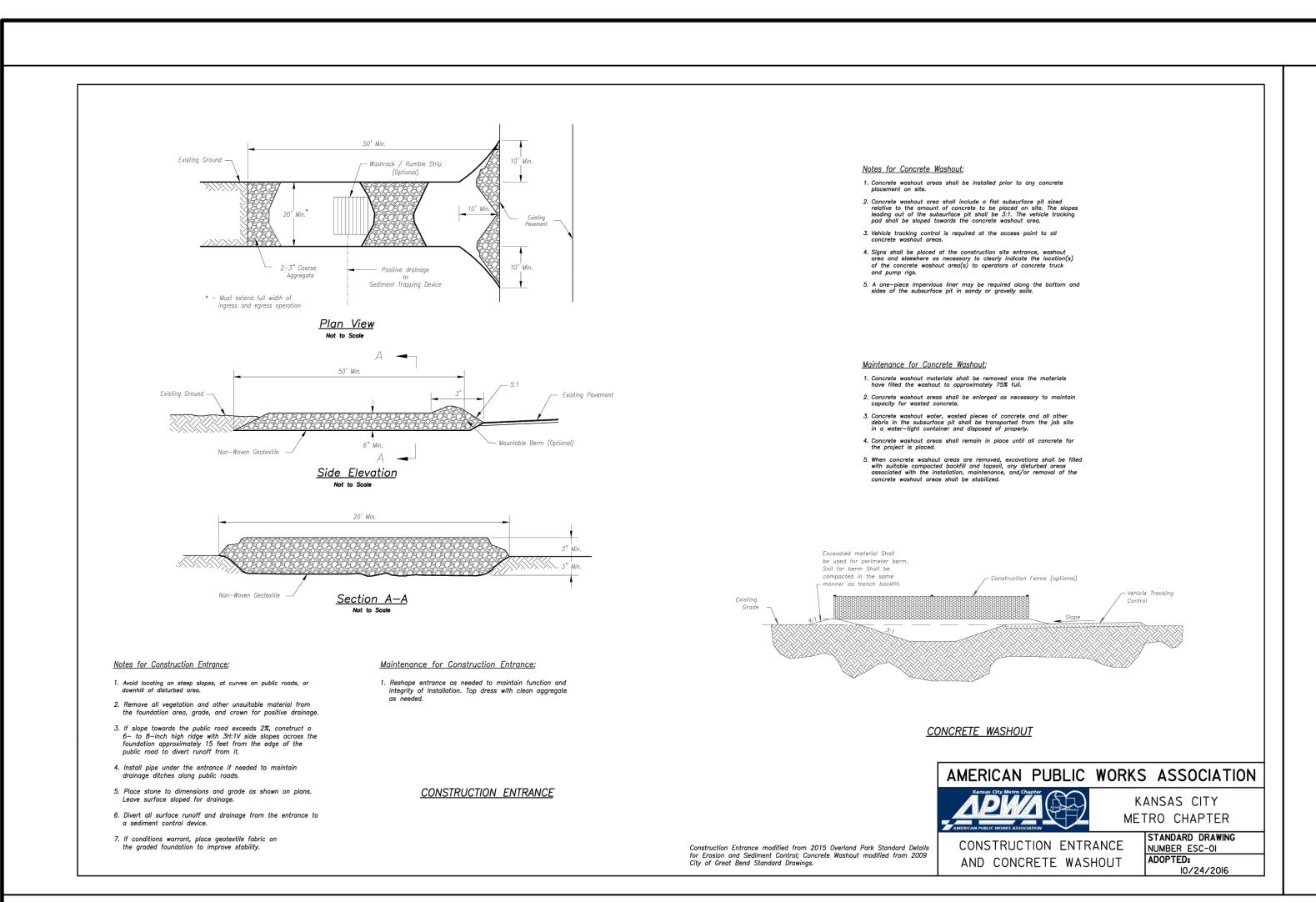
E. Until closure of Land

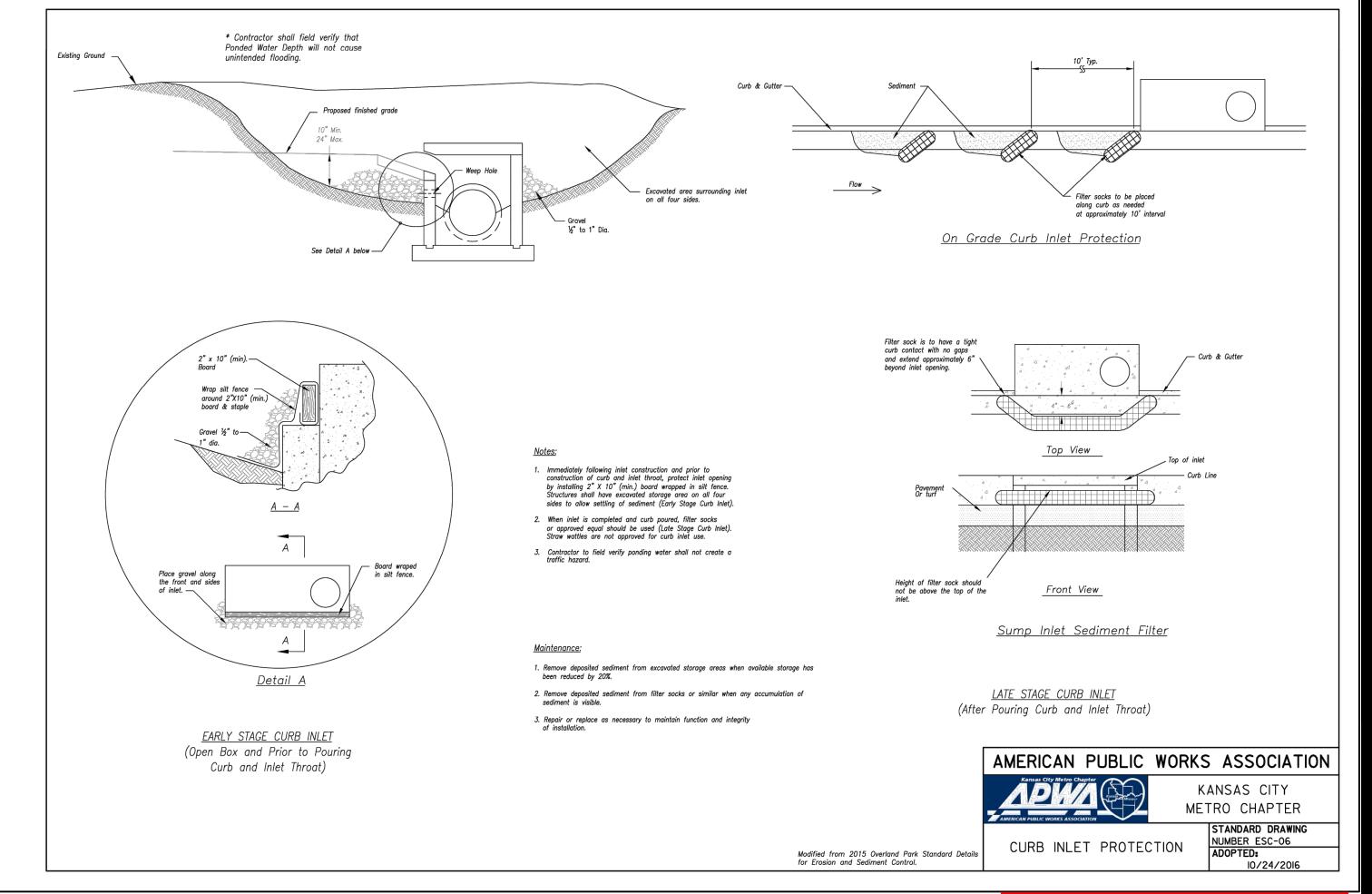
Disturbance Permit

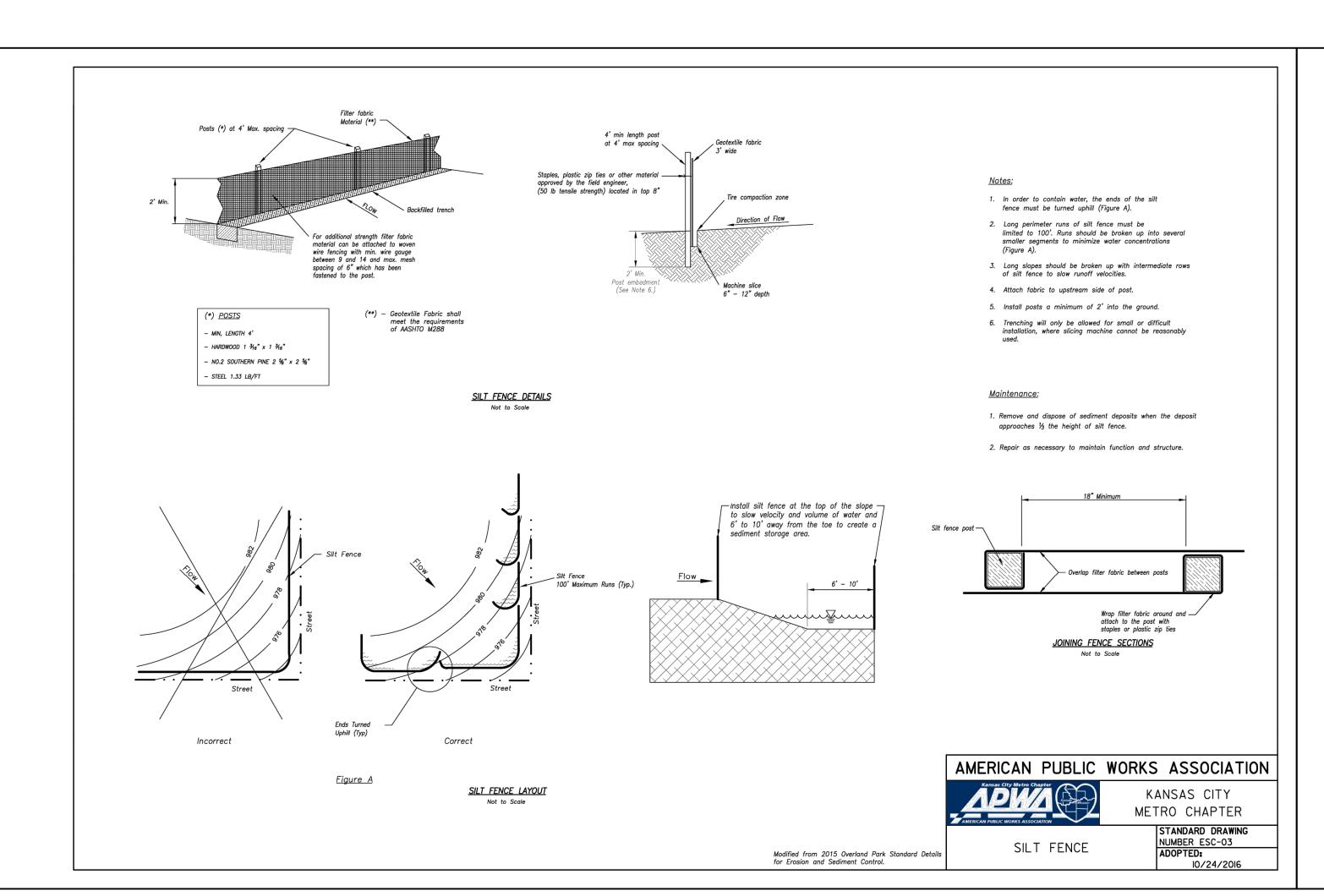
Seed & Landscape Disturbed Area upon completion of construction.

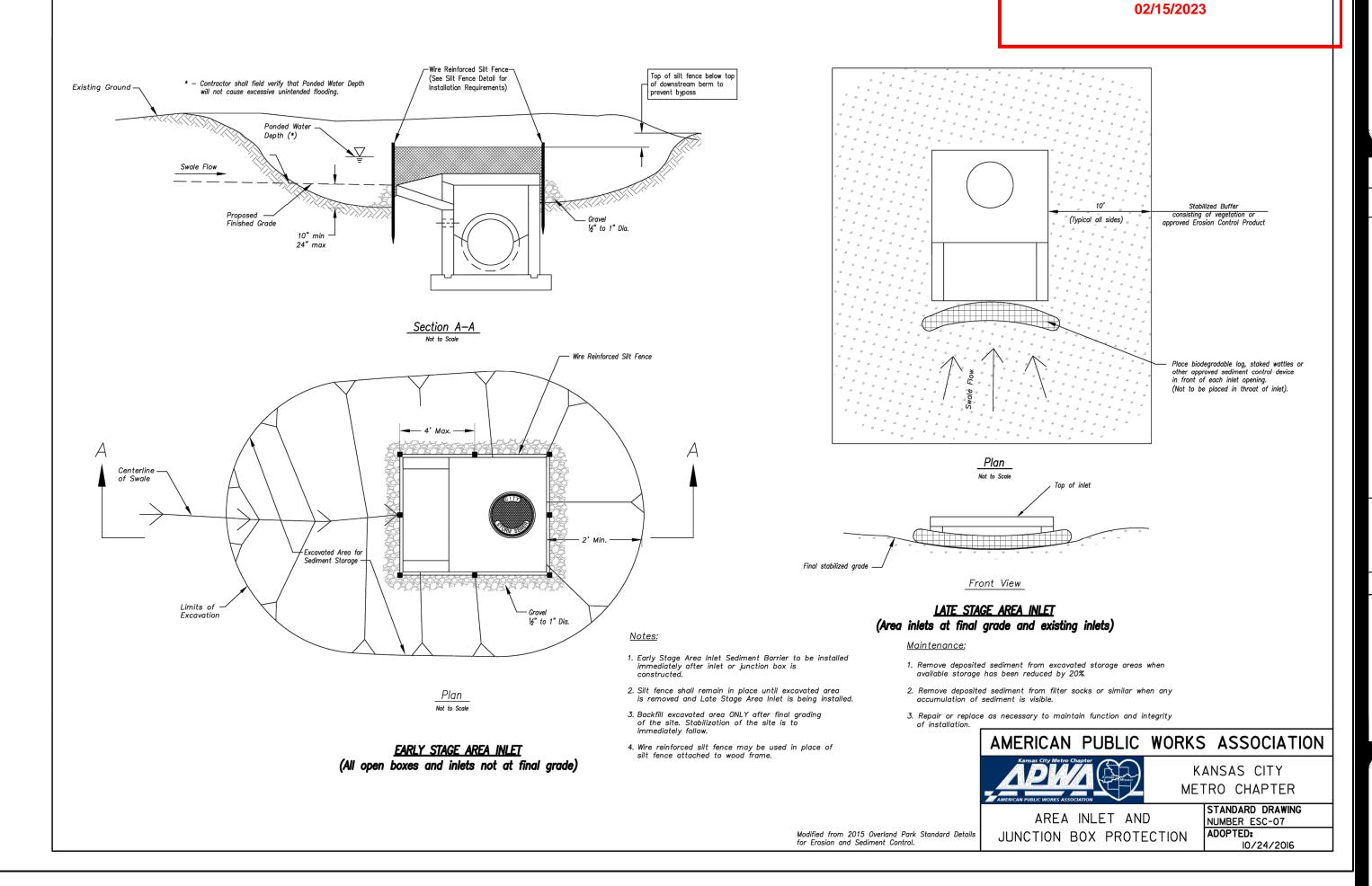
CTION

8









EROSION CONTROL DETAILS
ORCHARD WOODS

RELEASED FOR CONSTRUCTION
As Noted on Plan Review

Development Services Department

 211142
 No.
 Date
 Revisions:
 By Ap

 DRAWN:KSJ
 1
 12/15/22
 REVISED PER CITY COMMENTS
 KSJ DE

 RROVED: DEU
 2
 01/18/23
 REVISED PER CITY COMMENTS
 AEB
 DE

 HORIZATION
 31
 ACCOUNTAB
 ACCOUNTAB
 ACCOUNTAB
 ACCOUNTAB
 ACCOUNTAB
 ACCOUNTAB
 ACCOUNTABLE
 ACCOUNT

OURI

DETAIL

BA

SHEE

RELEASED FOR CONSTRUCTION

As Noted on Plan Review

Development Services Department

Lee's Summit, Missouri

02/15/2023

