FOR

ORCHARD WOODS

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

MISSOURI GAS ENERGY LUCAS WALLS (LUCAS.WALLS@SUG.COM) 3025 SOUTHEAST CLOVER DRIVE LEE'S SUMMIT, MO 64082

UTILITY COMPANIES:

LEE'S SUMMIT, MO 64081

LEE'S SUMMIT, MO 64063

(816) 347-4339 PHILLIP INGRAM (PHILLIP.INGRAM@KCPL.COM) RON DEJARNETTE (RON.DEJARNETTE@KCPL.COM) (816) 347-4316 1300 HAMBLEN ROAD

(816) 969-2218

(816) 969-1800 STORM SEWER (PUBLIC WORKS DEPARTMENT) 220 SE GREEN STREET

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

OIL-GAS WELLS:

Missouri Department of Natural Resources, Missouri Geological Survey, GeoSTRAT website indicates there are two wells drilled on this property. ID #095-00155 is shown as a dry hole, Dated 10/27/1938. ID# 0005120 is shown as an exploratory hole, dated 10/28/1938. Phelps Engineering has made a field investigation and found no visible evidence of these wells on the property, as of this date.

PRE-CONSTRUCTION MEETING NOTE:

THE CONTRACTOR SHALL CONTACT THE CITY'S DEVELOPMENT SERVICES ENGINEERING INSPECTION TO SCHEDULE A PRE-CONSTRUCTION MEETING WITH A FIELD ENGINEERING INSPECTOR PRIOR TO ANY LAND DISTURBANCE WORK AT (816) 969-1200.

BENCHMARK:

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

- PROJECT LOCATION

PREPARED & SUBMITTED BY:

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INTERSECTION DETAILS

DETENTION PLAN DRAINAGE MAP

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SIGNAGE DETAILS

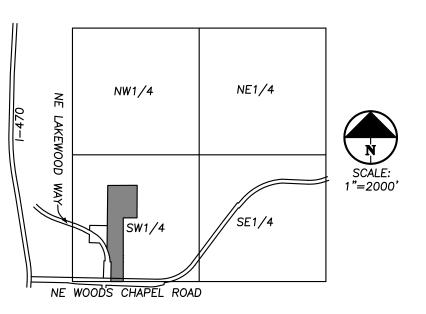
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COVER

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



VICINITY MAP SEC. 9-48-31

LEGEND PROPERTY LINE

Know what's below.

Call before you dig.

UTILITY NOTES:
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.

FLOOD NOTE:

THIS PROPERTY LIES WITHIN ZONE X, DEFINED AS AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN, AS SHOWN ON THE FLOOD INSURANCE RATE MAP PREPARED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY FOR THE CITY OF LEE'S SUMMIT, COMMUNITY NO. 290174, JACKSON COUNTY, MISSOURI, PANEL NO. 29095C0430G, AND DATED JANUARY 20, 2017.

2. ALL WORKMANSHIP AND MATERIALS SHALL BE SUBJECT TO THE INSPECTION AND APPROVAL OF THE ENGINEERING DEPARTMENT OF THE CITY OF LEE'S SUMMIT, MISSOURI.

3. LINEAL FOOT MEASUREMENTS SHOWN ON THE PLANS ARE HORIZONTAL MEASUREMENTS, NOT SLOPE MEASUREMENTS. ALL PAYMENTS SHALL BE MADE ON HORIZONTAL MEASUREMENTS.

4. NO GEOLOGICAL INVESTIGATION HAS BEEN PERFORMED ON THE SITE.

5. THE UTILITY LOCATIONS SHOWN ON THESE PLANS ARE TAKEN FROM UTILITY COMPANY RECORDS AND APPARENT FIELD LOCATIONS. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO CONSTRUCTION.

6. 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 EXCAVATION ON PUBLIC RIGHT OF WAY DO SO ONLY AFTER GIVING NOTICE TO, AND OBTAINING INFORMATION FROM, UTILITY COMPANIES. STATE LAW REQUIRES 48 HOURS ADVANCE NOTICE. THE 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 WHICH HAVE FACILITIES IN THE NEAR VICINITY OF THE CONSTRUCTION TO BE PERFORMED.

7. PRIOR TO ORDERING PRECAST STRUCTURES, SHOP DRAWING SHALL BE SUBMITTED TO THE DESIGN ENGINEER FOR APPROVAL. AFTER APPROVAL OF THE SHOP DRAWINGS, A COPY OF THE APPROVED AND SIGNED SHOP DRAWINGS SHALL BE PROVIDED TO THE FIELD INSPECTOR UPON REQUEST.

8. THE CONTRACTOR SHALL PROTECT ALL MAJOR TREES FROM DAMAGE. NO TREE SHALL BE REMOVED WITHOUT PERMISSION OF THE OWNER, UNLESS SHOWN OTHERWISE.

9. CLEARING AND GRUBBING OPERATIONS AND DISPOSAL OF ALL DEBRIS THEREFROM SHALL BE PERFORMED 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 CONTRACTOR, OR AS DIRECTED BY THE OWNER.

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

12. THE CONTRACTOR SHALL CONTROL THE EROSION AND SILTATION DURING ALL PHASED OF CONSTRUCTION, AND SHALL KEEP THE STREETS CLEAN OF MUD AND DEBRIS.

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

14. THE CONTRACTOR SHALL CONTACT THE CITY'S DEVELOPMENT SERVICES ENGINEERING INSPECTION TO SCHEDULE A PRE-CONSTRUCTION MEETING WITH A FIELD ENGINEERING INSPECTOR PRIOR TO ANY LAND DISTURBANCE WORK AT (816) 969-1200

15. THE CONTRACTOR SHALL CONTACT THE RIGHT OF WAY INSPECTOR AT 816-969-1800 PRIOR TO ANY LAND DISTURBANCE ACTIVITIES WITHIN THE RIGHT OF WAY. THESE ACTIVITIES MAY REQUIRE A PERMIT.

16. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN ALL TRAFFIC HANDLING MEASURES NECESSARY TO ENSURE THAT THE GENERAL PUBLIC IS PROTECTED AT ALL TIMES. TRAFFIC CONTROL SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD-LATEST EDITION).

EARTHWORK:

1. It is recommended that a Geotechnical Engineer observe and document all earthwork activities.

2. 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.

3. 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.

4. Proposed contours are to approximate finished grade.

5. 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.

6. Unless otherwise noted, all earthwork is considered Unclassified. No additional compensation will be provided for rock or shale excavation, unless specifically stated otherwise.

7. Prior to earthwork activities, pre—disturbance erosion and sediment control devices shall be in place per the Storm Water Pollution Prevention plan and/or the Erosion and Sediment Control Plan prepared for this site.

8. 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.

9. 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.

16. 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.

STREET NOTES:

1. ALL STREET CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE CITY OF LEE'S SUMMIT DESIGN AND CONSTRUCTION MANUAL. ALL APPLICABLE AASHTO STANDARDS HAVE BEEN MET.

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

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

4. SUBGRADE TO BE COMPACTED TO 95% STANDARD PROCTOR DENSITY.

5. ASSUMED DESIGN SPEED = 25 MPH (RESIDENTIAL).

6. MINIMUM STOPPING SIGHT DISTANCE = 155 FEET.

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

8. GRADE INTERSECTIONS TO DRAIN AS SHOWN.

9. SSD = STOPPING SIGHT DISTANCE.

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

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 the structures.

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

DOUGLAS EUGENE UBBEN, JR.
NUMBER PE-2011010998
5/2/2023

1270 N. Winchester Olathe, Kansas 66061 (913) 393-1155 Fax (913) 393-1166

ENGINEERING

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ERAL NOTES
CHARD WOODS

GENERAL
ORCHARD V
LEE'S SUMMIT, JACKSON

 No.
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SUMMARY OF QUANITIES PREPARED BY: MRH/KAD 4-25-2023 STREET & GRADING

| ITEM | | QUANITY | |
|------|--|---------|------|
| 1 | FINE GRADING - STEET R/W | 2222 | L.F. |
| 2 | CONCRETE CURB & GUTTER | 4443 | L.F. |
| 3 | 2" ASPHALTIC CONCRETE INTERMEDIATE COURSE (SURFACE) | 7114 | S.Y |
| 4 | 4" ASPHALTIC CONCRETE INTERMEDIATE COURSE (RES. BASE) | 5646 | S.Y |
| 5 | 5.5" ASPHALTIC CONCRETE INTERMEDIATE COURSE (COLL. BASE) | 1468 | S.Y |
| 6 | FLY ASH SUBGRADE STABILIZATION (6" SUBGRADE STABILIZATION) | 6852 | S.Y |
| 7 | FLY ASH SUBGRADE STABILIZATION (9" SUBGRADE STABILIZATION) | 1743 | S.Y |
| 8 | 5' CONCRETE SIDEWALK | 435 | L.F. |
| 9 | TYPE "A" SIDEWALK RAMP | 8 | EA. |
| 10 | TYPE "B" SIDEWALK RAMP | 3 | EA. |
| 11 | END OF ROAD OBJECT MARKERS | 7 | EA. |
| 12 | AREA GRADING - R/W | 1 | L.S. |
| 13 | STREET SIGN | 3 | EA. |
| 14 | CONCRETE ENTRANCE - CONCRETE | 24 | S.Y |
| 15 | DRIVE ENTRANCE - 8" ASPHALT | 31 | S.Y |
| 16 | DRIVE ENTRANCE 6" AGGREGATE BASE | 42 | S.Y |
| 17 | RETAINING WALL | 700 | F.F |
| | | | |

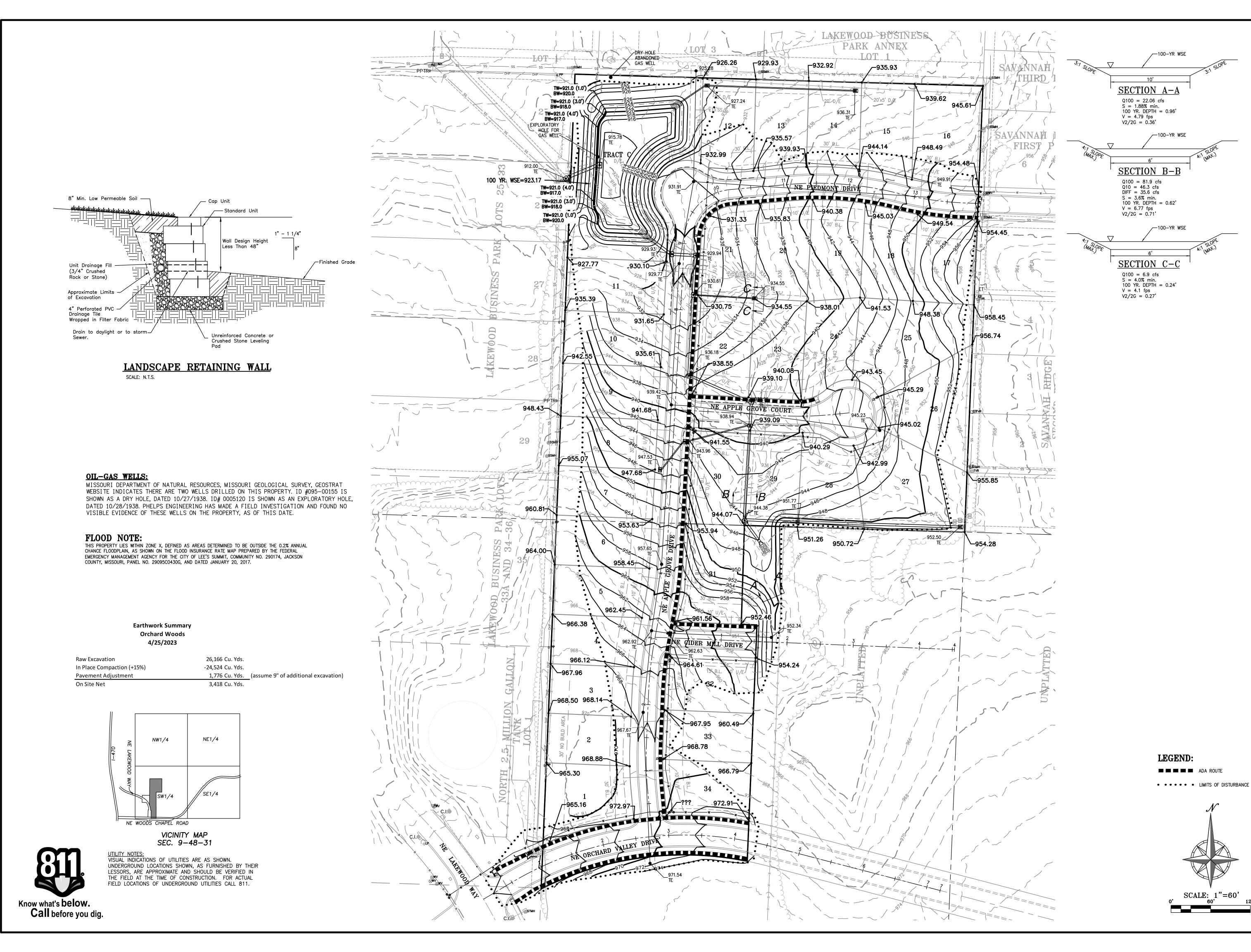
ANY DEMOLITION OR REMOVAL OF ANY STRUCTURES AND DEBRIS SHALL BE CONSIDERED SUBSIDIARY TO THE WORK PERFORMED BY THE GRADING CONTRACTOR

STORM SEWER

| ITEM | | QUANITY | |
|------|--------------------------------|---------|------|
| 1 | 15" HDPE** | 459 | L.F. |
| 2 | 36" HDPE** | 790 | L.F. |
| 3 | 42" HDPE** | 37 | L.F. |
| 4 | 48" HDPE** | 55 | L.F. |
| 5 | 15" RCP** | 57 | L.F. |
| 6 | 36" RCP** | 36 | L.F. |
| 7 | 42"RCP** | 36 | L.F. |
| 8 | 8'x6' SPECIAL INLET | 1 | EA. |
| 9 | 7'x4' CURB INLET | 1 | EA. |
| 10 | 6'x5' CURB INLET | 3 | EA. |
| 11 | 6'x5' AREA INLET | 1 | EA. |
| 12 | 6'x5' JUNCTION BOX | 1 | EA. |
| 13 | 6'x6' CURB INLET | 1 | EA. |
| 14 | 6'x6' JUNCTION BOX | 1 | EA. |
| 15 | 6'x4' CURB INLET | 3 | EA. |
| 16 | 5'x4' AREA INLET | 1 | EA. |
| 17 | 4'x4' AREA INLET | 3 | EA. |
| 18 | 42" CMP END SECTION W/ TOEWALL | 1 | EA. |
| 19 | 36" CMP END SECTION W/TOEWALL | 1 | EA. |
| 20 | 15" CMP END SECTION W/TOEWALL | 1 | EA. |
| 21 | 150# MIN. STONE RIP-RAP | 51 | S.Y. |
| 22 | REMOVE EXISTING STRUCTURE | 1 | L.S. |

** UNCLASSIFIED TRENCH & TAMPED BACKFILL

EET AND STORM\GENERAL NOTES.dwg Layout:2 May 02, 2023 — 4:16pm Kyle De



DOUGLAS EUGENE UBBEN, JR. NUMBER PE-2011010998

5/2/2023

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1270 N. Winches Olathe, Kansas 66 (913) 393-1155 TION Fax (913) 393-11

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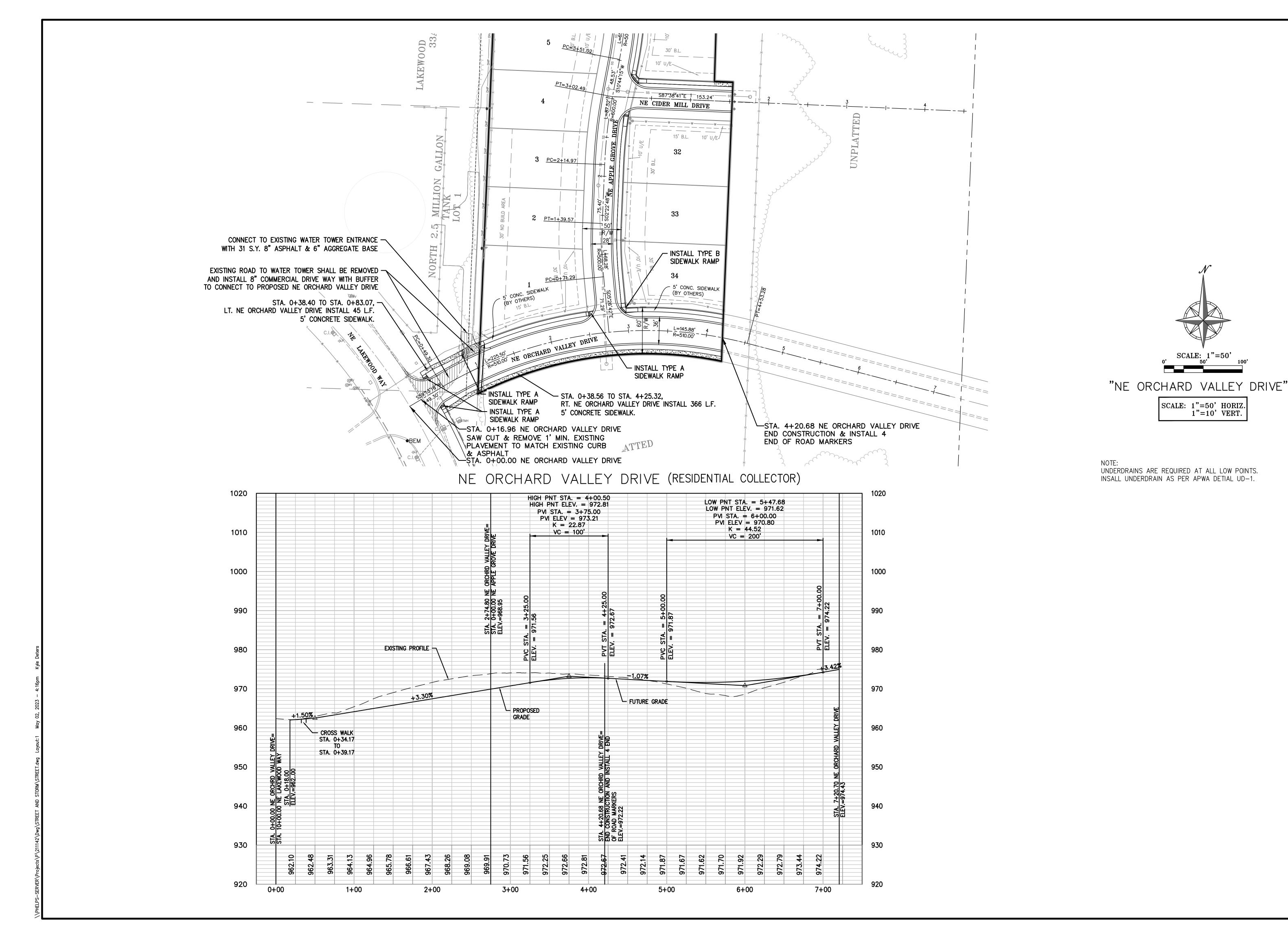
GRADING PLAN
ORCHARD WOODS
SUMMIT JACKSON COUNTY

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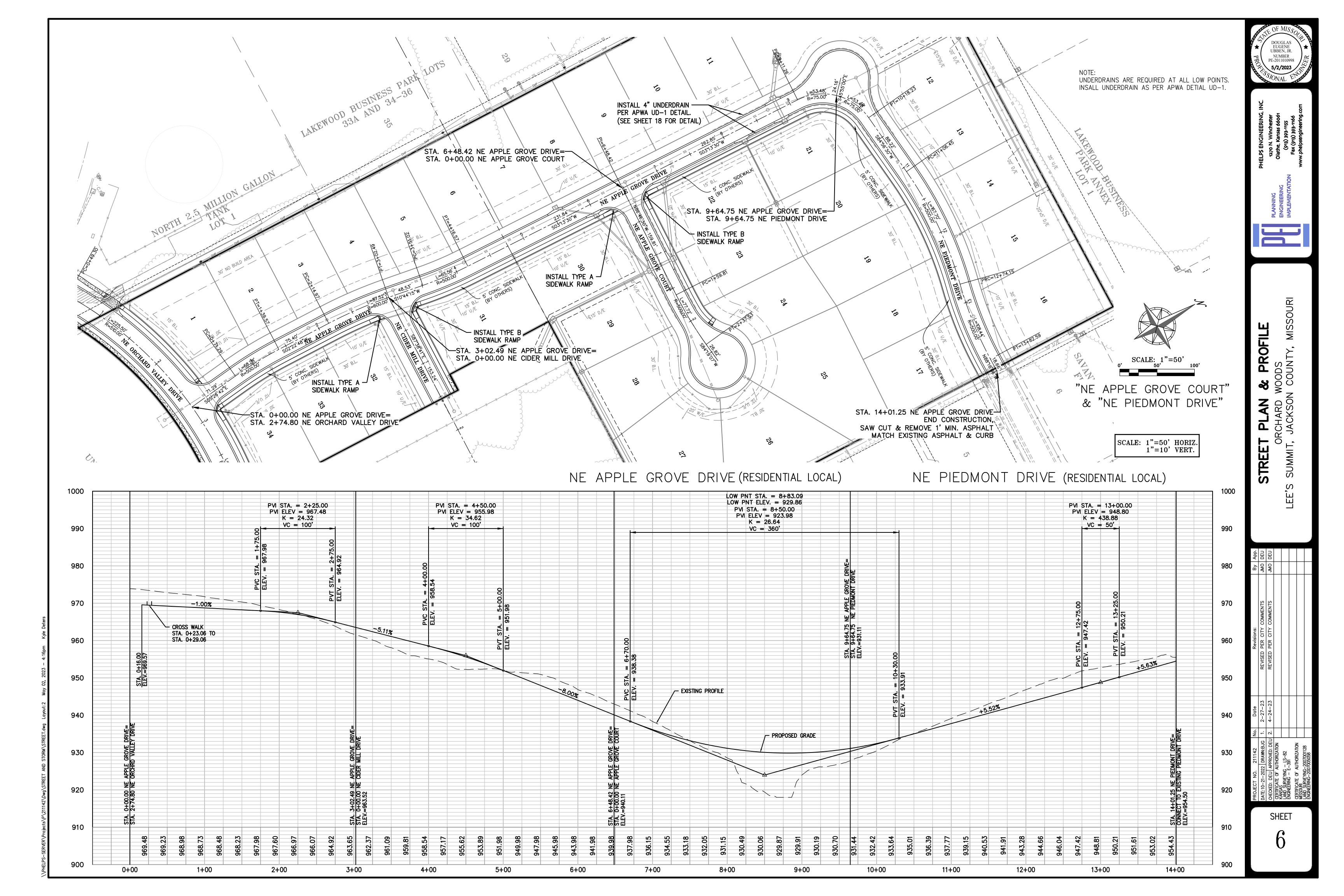
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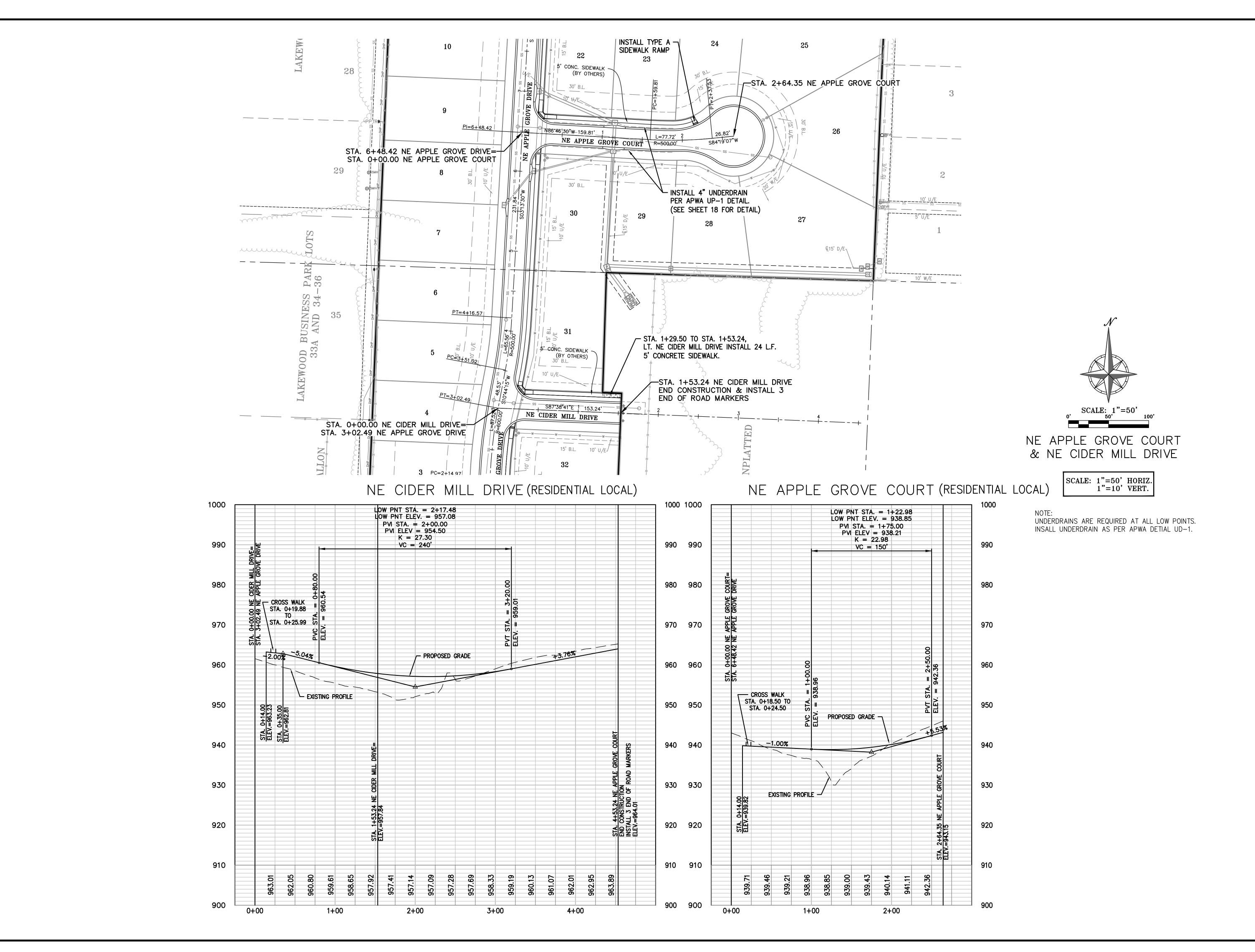




PROFILE

SCALE: 1"=50' HORIZ. 1"=10' VERT.





DOUGLAS EUGENE UBBEN, JR. NUMBER PE-2011010998

5/2/2023

1270 N. Winchester

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Olathe, Kansas 66061

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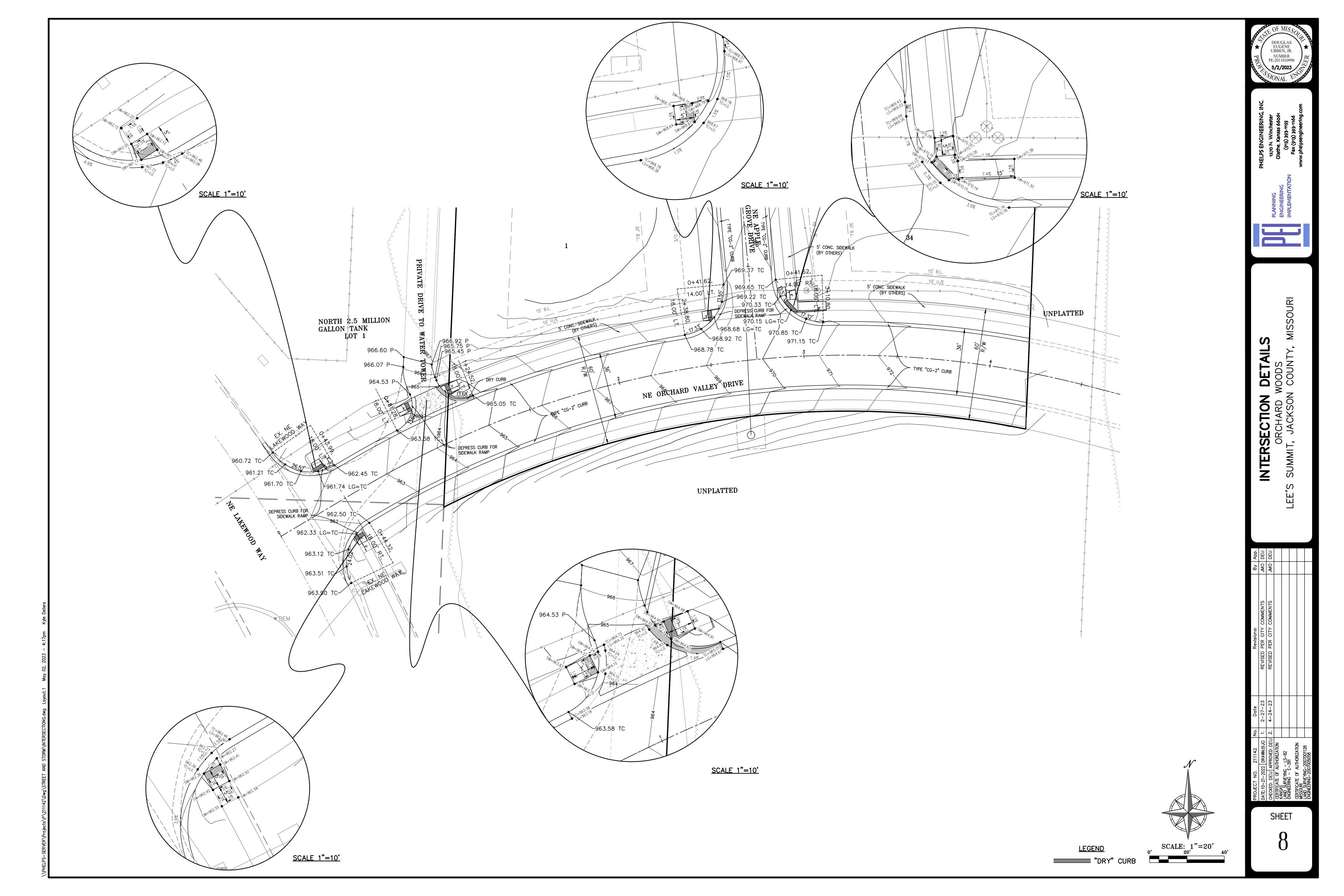
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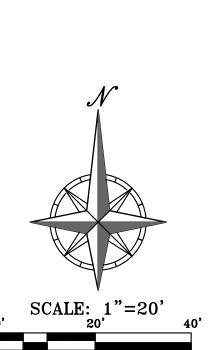
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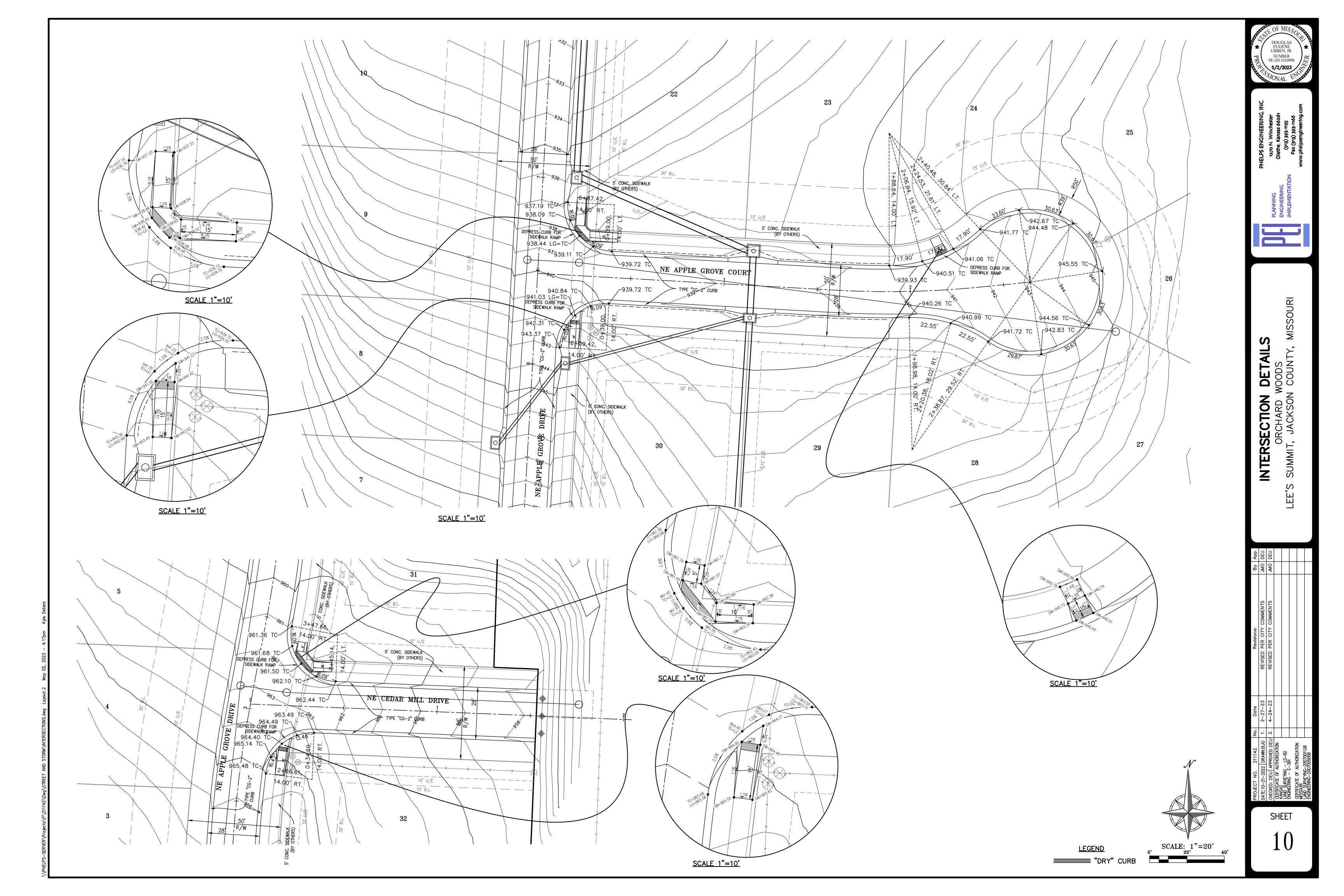
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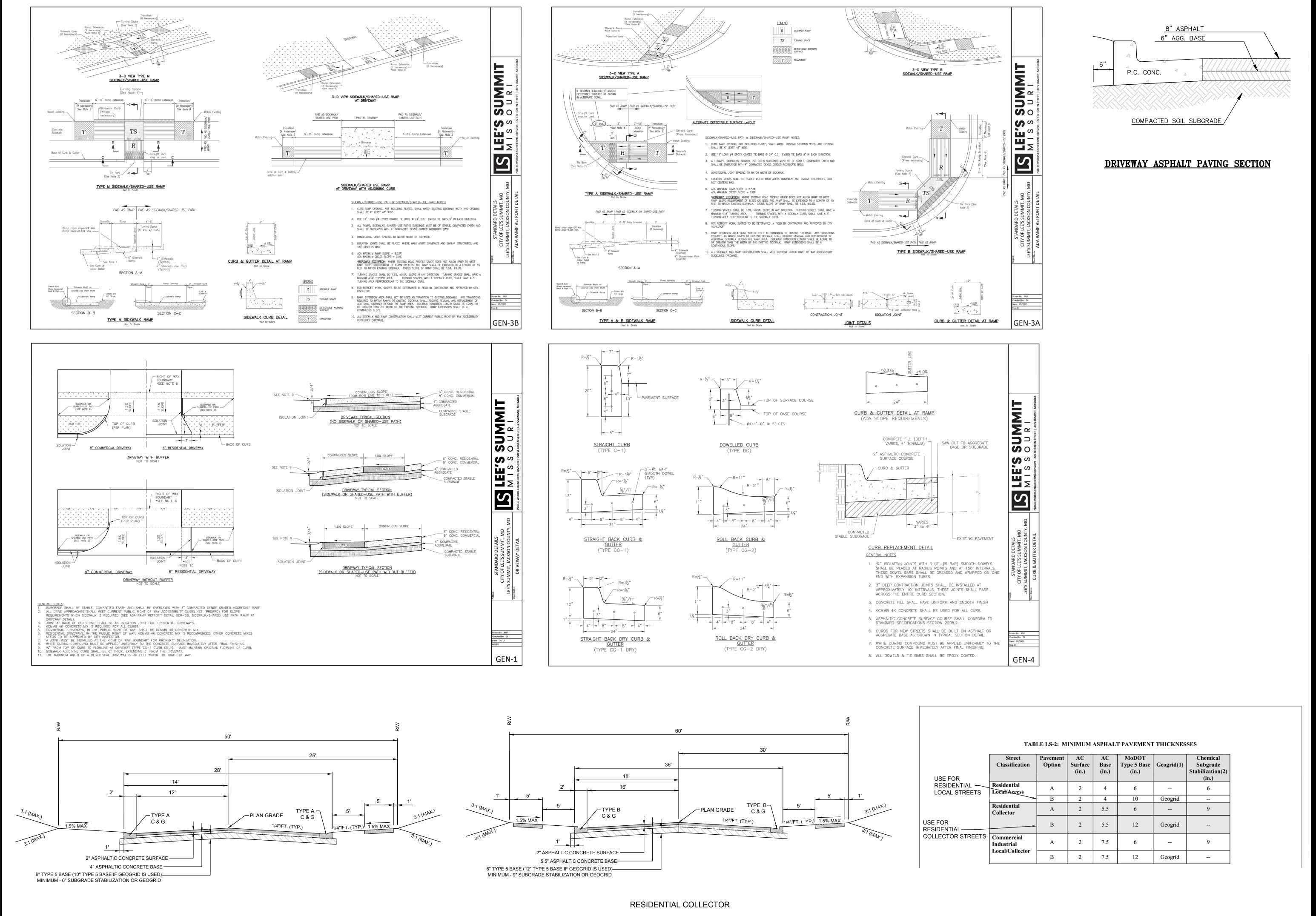




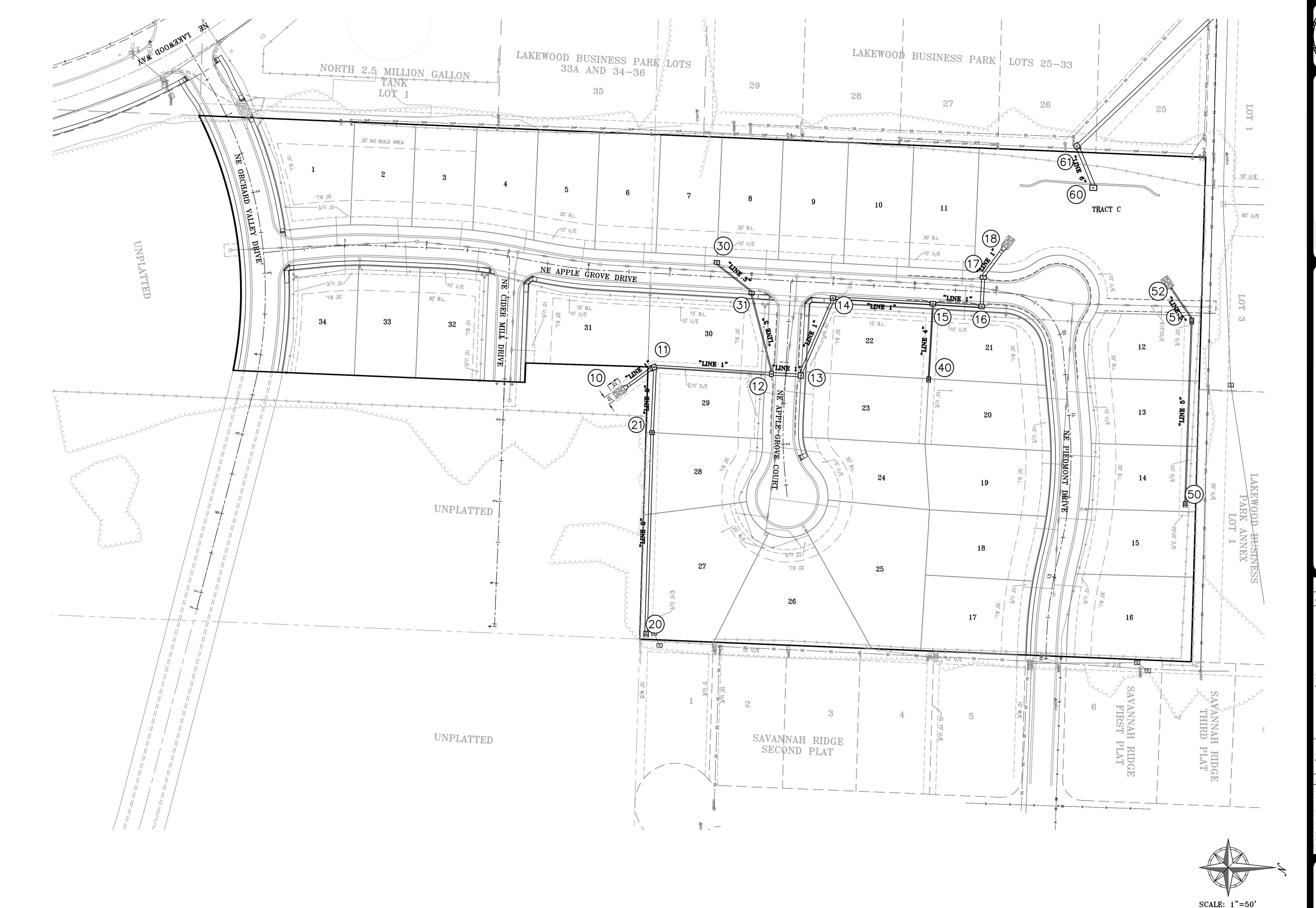
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MISSOURI INTERSECTION DETAILS
ORCHARD WOODS
'S SUMMIT, JACKSON COUNTY, MIS





UBBEN, JR. NUMBER





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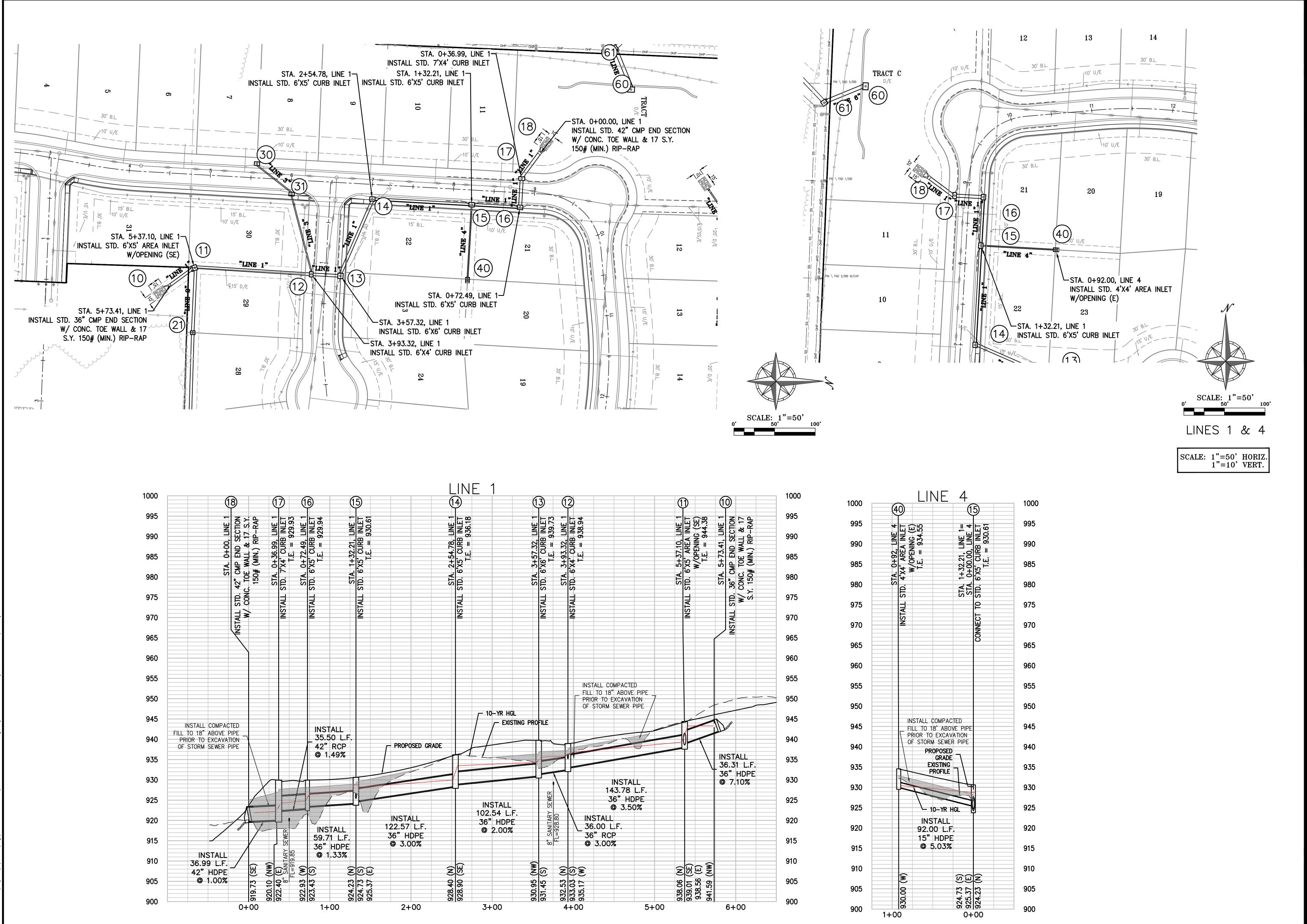
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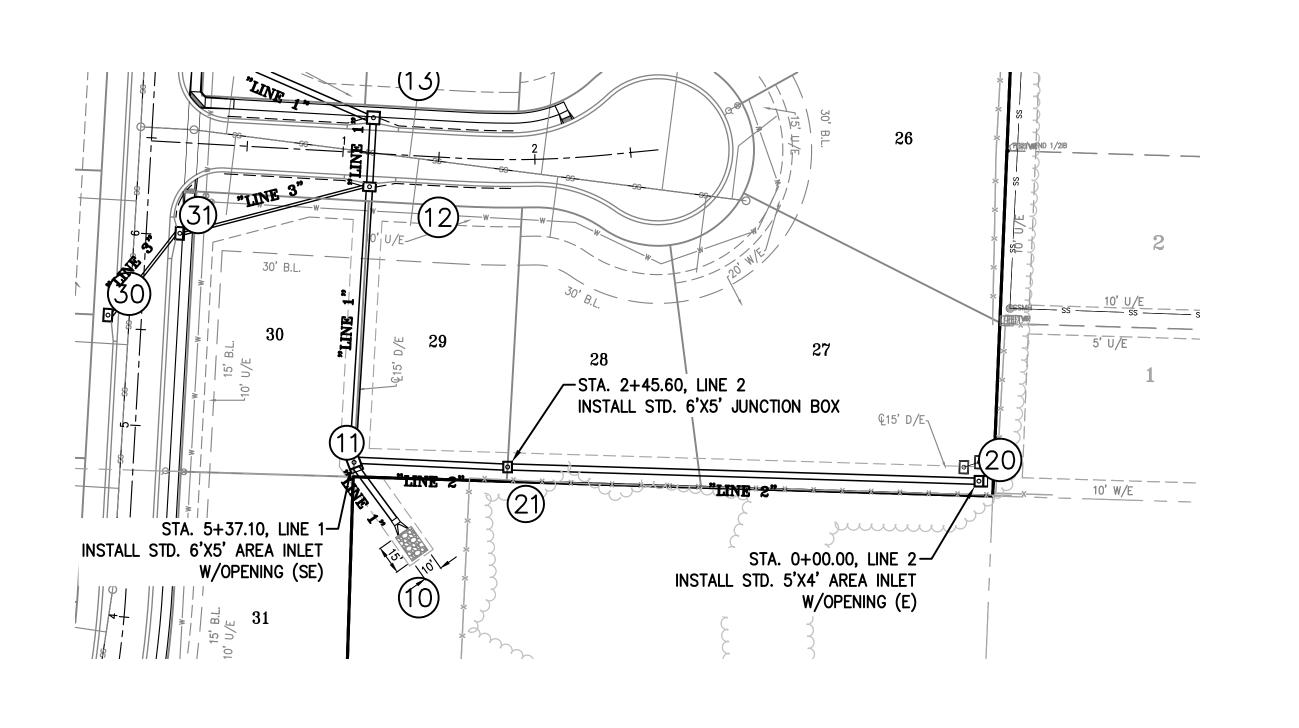
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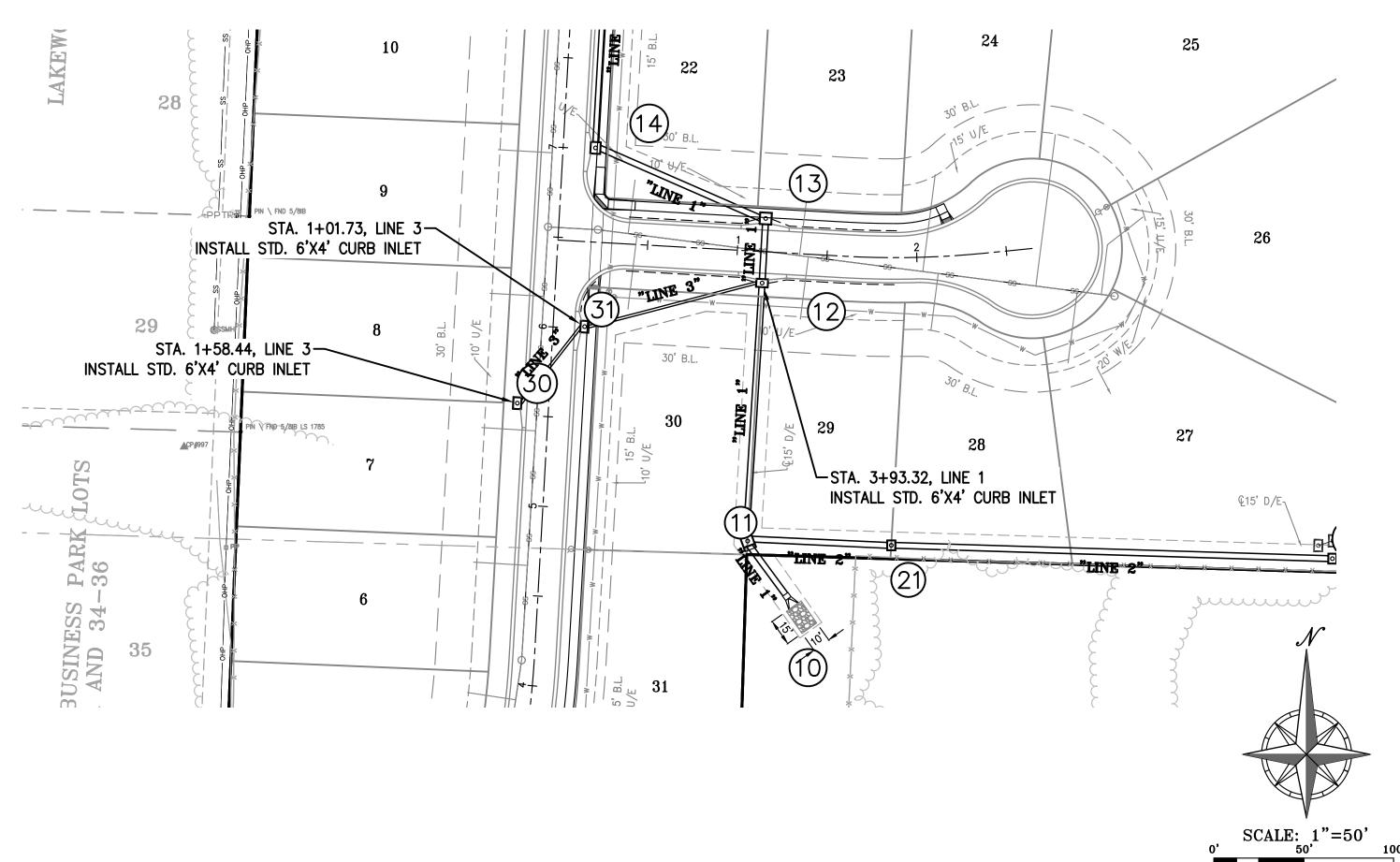
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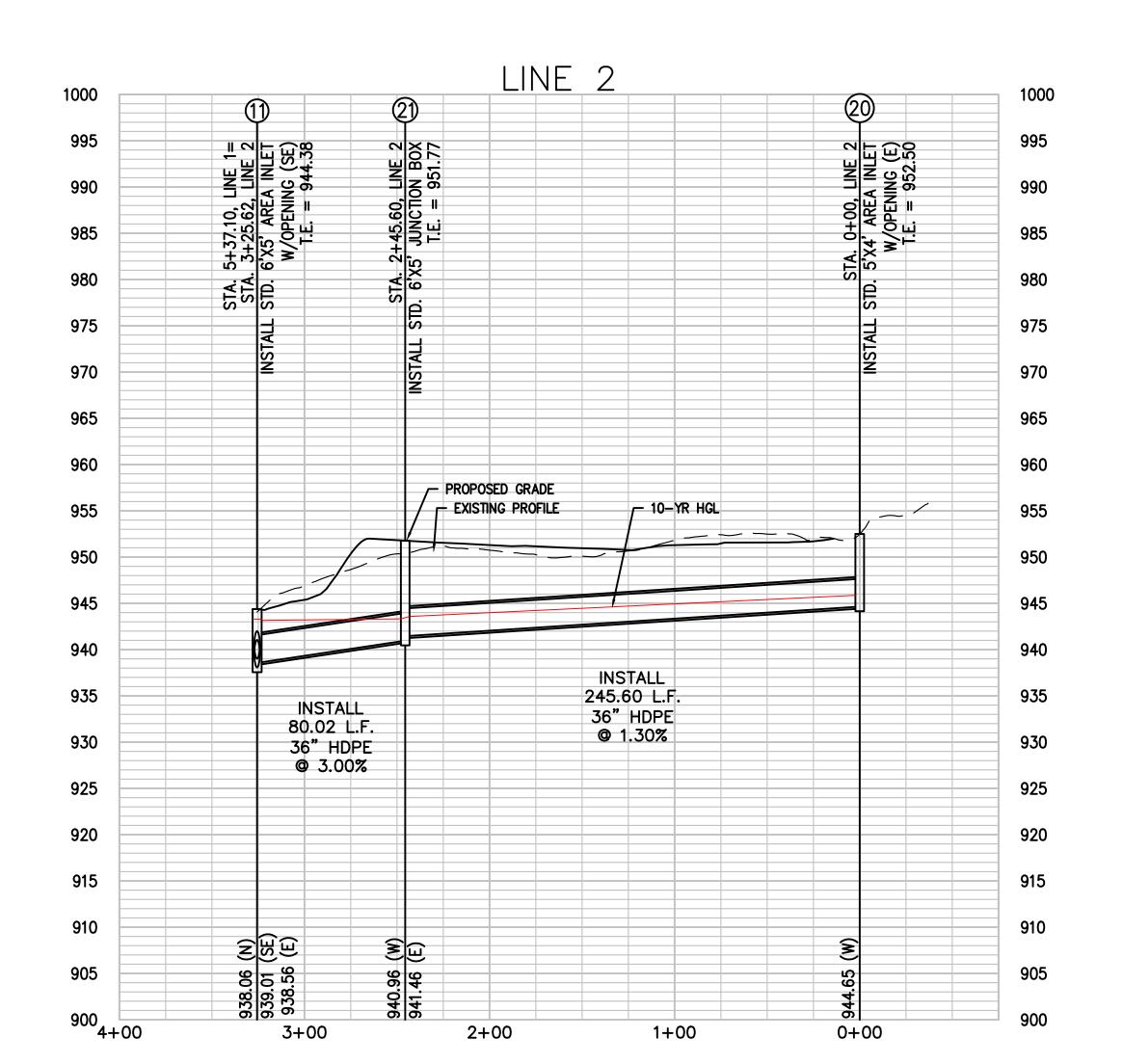
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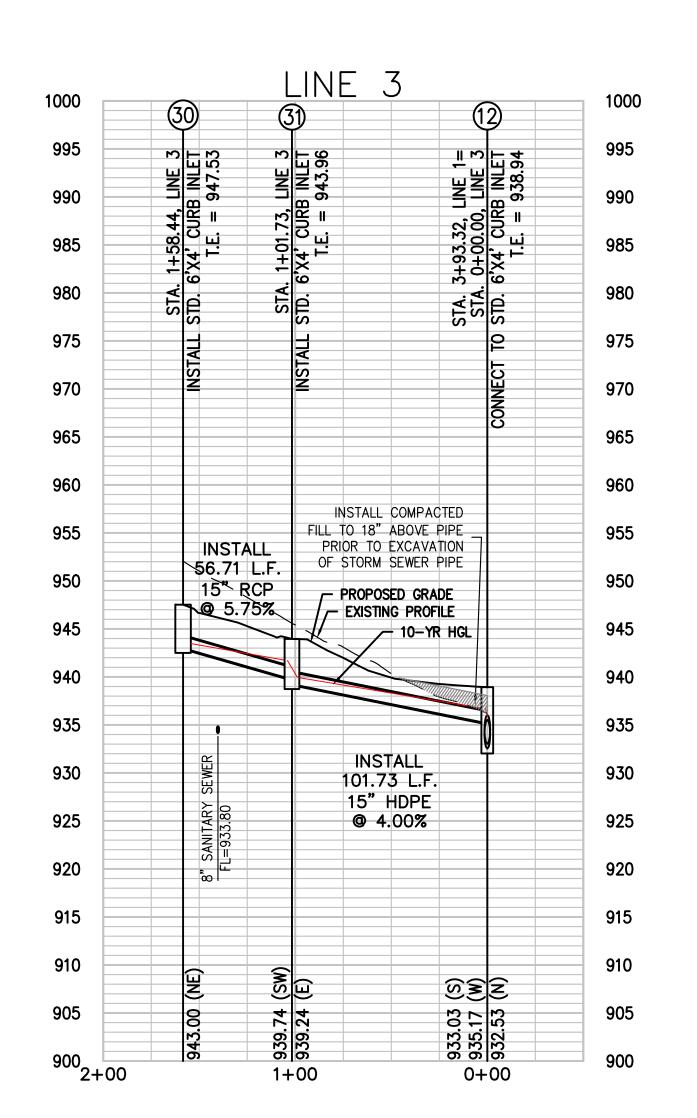
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NGINEERING, INC.
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PLANNING ENGINEERING IMPLEMENTATION

PLAN

MISSOURI

PROFILE

8

SEWER

STORM

LINES 2 & 3

SCALE: 1"=50' HORIZ. 1"=10' VERT.

 PROJECT NO. 211142
 No. Date
 Revisions:

 DATE:10-21-2022 | DRAWN:BJG
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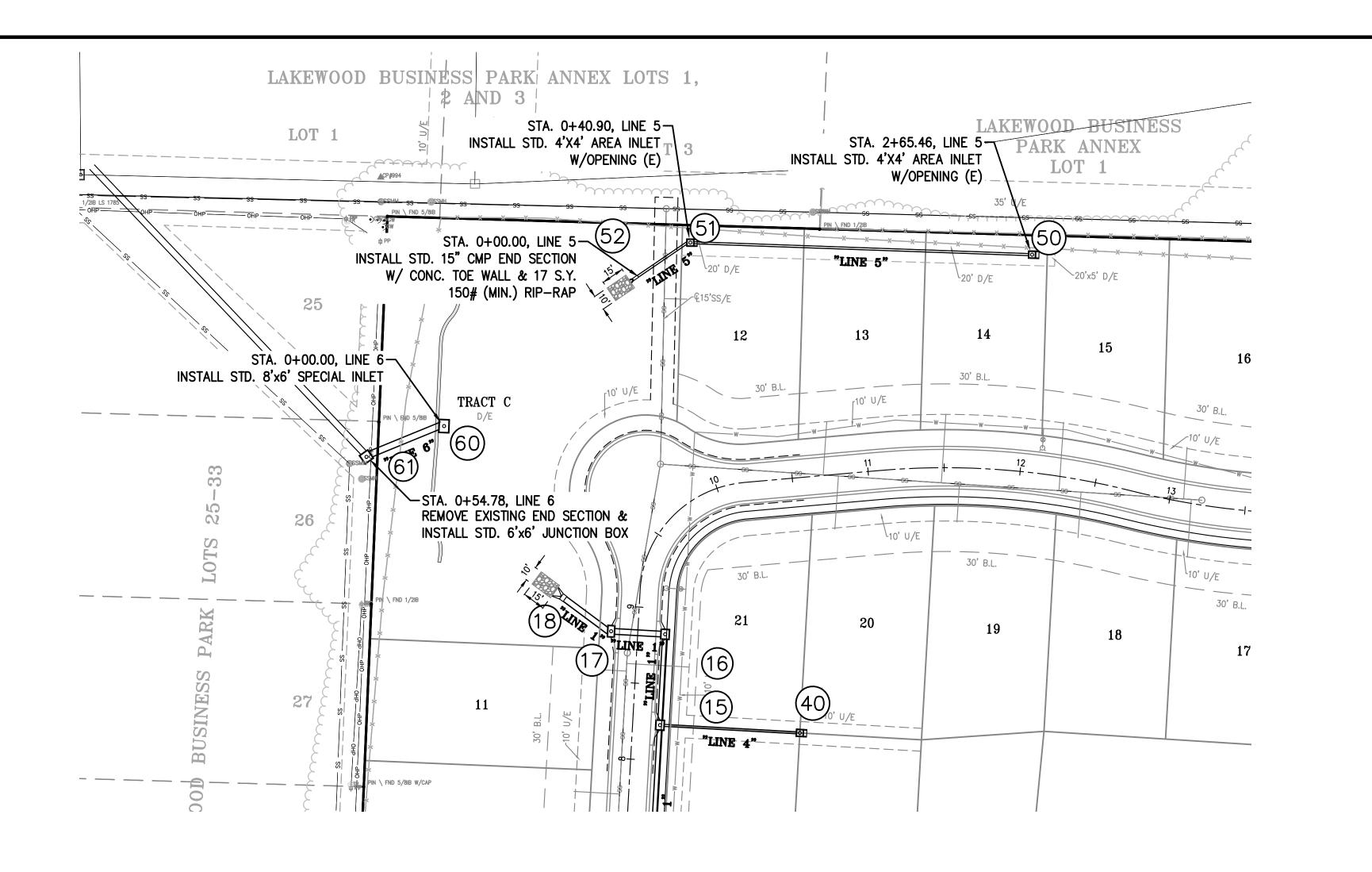
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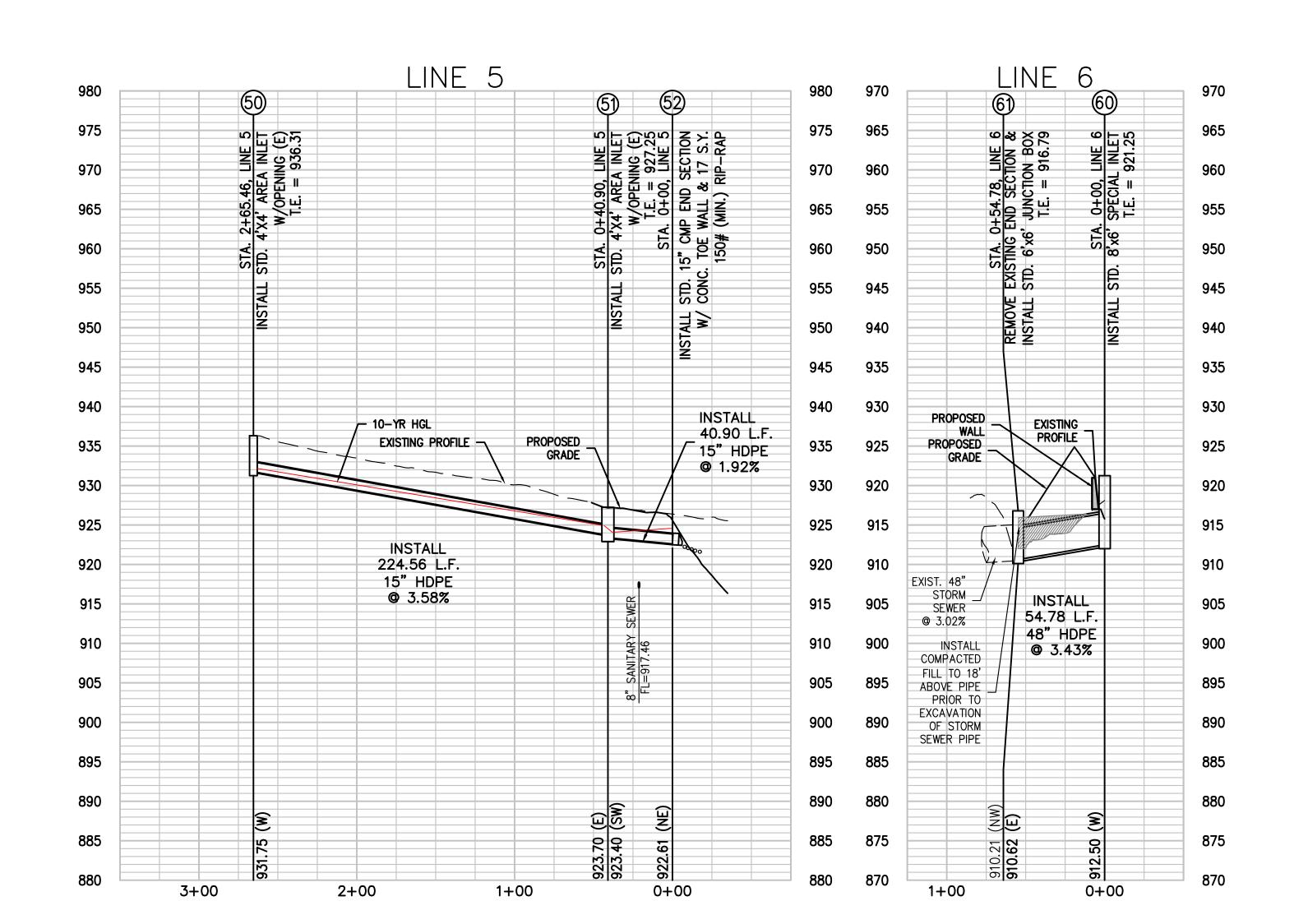
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MISSOURI

PROFILE PLAN ORCHAR MMIT, JACKS SEWER STORM

LINES 5 & 6

SCALE: 1"=50' HORIZ. 1"=10' VERT.

└─ Inside Wall

– Medium Duty Ring and Lid

Plan

No. 4 Bars placed at 45° angle



— No. 4 Bars @ 6" ctrs.

(Both Ways)

SUMMIT OUR!

SOS

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SECTION A-A

General

- 1. All storm sewer structures shall be pre-cast or poured in place. If pre-cast structures are used for publicly financed, maintained or administered construction, the tops shall be poured in place and the wall steel shall be left exposed to a height 2" below the finish top elevation, or as directed by the City Engineer.
- 2. Pre-cast shop drawings are to be approved by the City Engineer for publicly financed or administered projects. Pre—cast shop drawings for privately financed projects are to be submitted to the Engineering Services Division of the Planning and Development Services Department.
- 3. Do not scale these drawings for dimensions or clearances. Any questions regarding dimensions shall be brought to the attention of the City Engineer prior to construction.
- 4. The first dimension listed in the construction notes is the "L" dimension. The second dimension is the "W" dimension. The concrete thickness and reinforcement shown is for boxes with ("L"+"H") and ("W"+"H") less then or equal to 20. For boxes with either of these calculations greater than 20, a special design is required.

Concrete

— 3 ½" х 1 ½" Keyway

(All Sides)

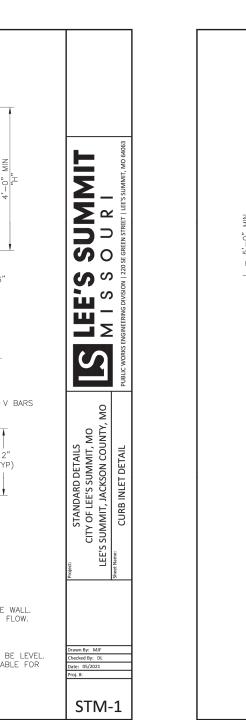
- 5. Concrete used in this work shall be KCMMB4K, as approved by the Kansas City Metropolitan Materials Board, and shall meet the requirements of the **Lee's Summit** Municipal Code.
- 6. Concrete construction shall meet the applicable requirements of Standard Specifications for State Road and Bridge Construction. Kansas Department of Transportation, latest edition, except as modified in the **Lee's Summit** Municipal Code.
- 7. Inlet floors shall be shaped with non-reinforced concrete inverts to provide smooth flow.
- 8. Bevel all exposed edges with $\frac{3}{4}$ " triangular molding.

Reinforcing Steel

- 9. Reinforcing steel shall be new billet, minimum Grade 60 as per ASTM A615, and shall be bent cold.
- 10. All dimensions relative to reinforcing steel are to centerline of bars. 2" clearance shall be provided throughout unless noted otherwise. Tolerance of $+/-\frac{1}{8}$ " shall be permitted.
- 11. All lap splices not shown shall be a minimum of 40 bar diameters in length.
- 12. All reinforcing steel shall be supported on fabricated steel bar supports @ 3'-0" maximum spacing.
- 13. All dowels shall be accurately placed and securely tied in place prior to placement of bottom slab concrete. Sticking of dowels into fresh or partially hardened concrete will not be acceptable.

Construction

- 14. The bottom slab shall be at least 24 hours old before placing sidewall concrete. All sidewall forms shall remain in place a minimum of 24 hours after sidewalls are poured before removal, and after removal shall be immediately treated with membrane curing compound.
- 15. Pipe connections to pre-cast structures shall have a minimum of 6" of concrete around the entire pipe within 2' of the structure.
- 16. Material selection and compaction requirements for backfill around structures shall be as specified in the Manual of Infrastructure Standards, as promulgated by the City Engineer.



3-0" (Pipe Underdrain) 1'-6" (Edge Underdrain) _12" Topsoll

Limits of Undercutting

Outside Limits of Blanket and Pipe Underdrains

- Pipe/Edge Underdrain

Crushed Stone for Backfill

All underdrain pipes shall be installed at a minimum slope of 1%.
 Underdrain pipe shall be installed with the perforations placed down.

The Contractor may, at his option, use either pipe underdrain or edge underdrain, but shall not mix underdrain types within

Blanket underdain aggregate, pipe underdrain aggregate, pipe underdrain, edge underdrain and outlet pipe shall conform to Standard Specifications Section 2203.6

KANSAS CITY

METROPOLITAN CHAPTER

AMERICAN PUBLIC WORKS ASSOCIATION

Ranket underdrains shall be placed on bedrock unless otherwise Breated by the City Engineer. Undercut and overbreakage in Imeatone and shale shall be brought to within 12° of the subgradi in= with invocarly compacted crushed stone, shot rock and/or

ROCK EXCAVATION /UNDERDRAIN

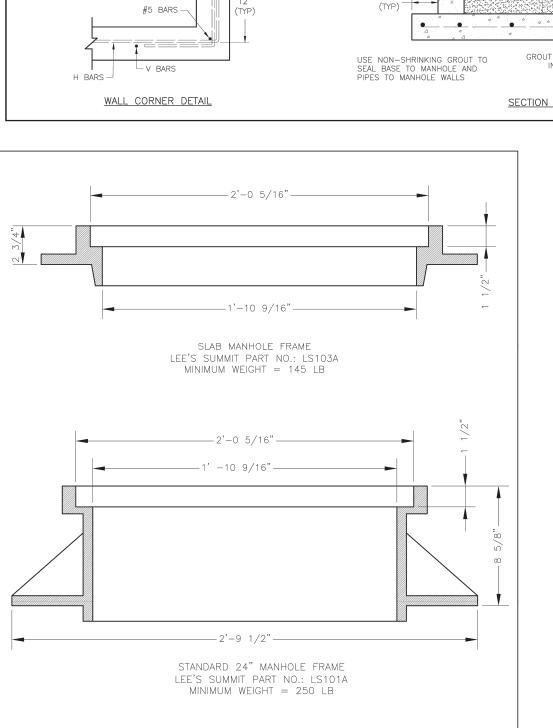
UNDERDRAIN LAYOUT

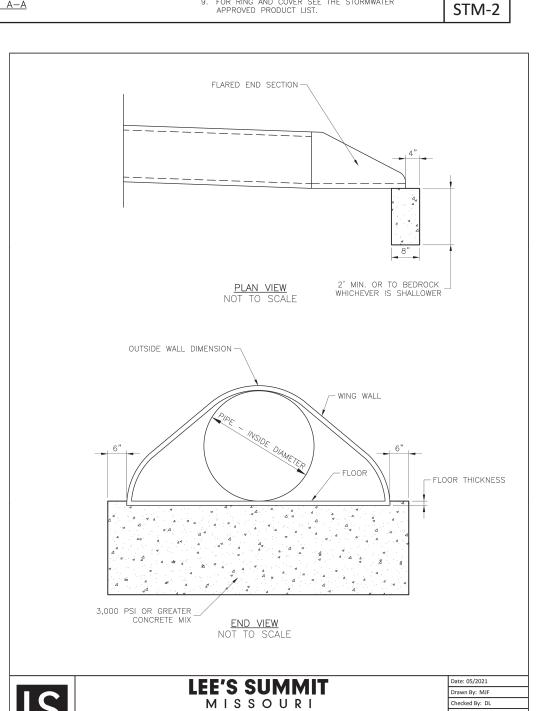
Scale 1"=5'

3. Layers of earth or shale shall not be permitted for backfill up to the bottom of the crushed stone.

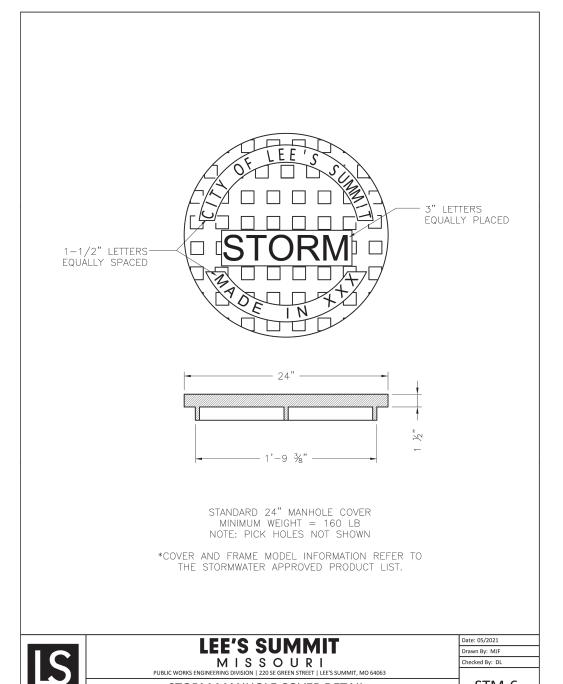
9. All filter fabric used for pipe underdrain construction shall conform to Standard Specifications Section 2203.6.

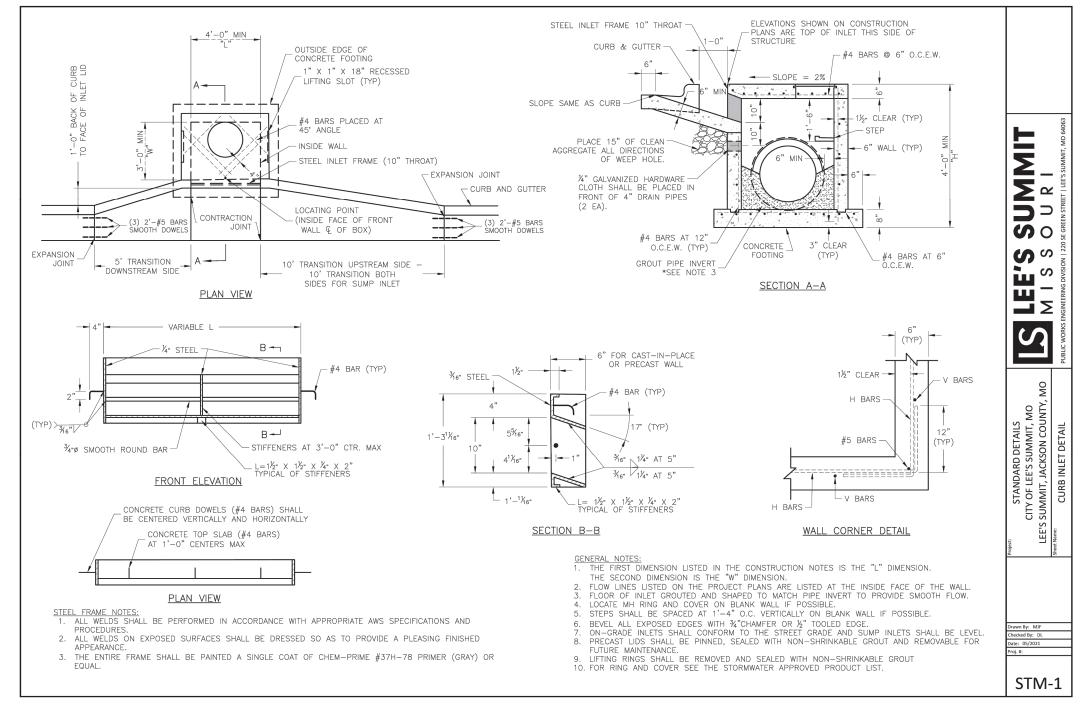
UNDERDRAIN DETAILS





FLARED END SECTION SUPPORT DETAIL





FDGF UNDFRDRAIN

BLANKET UNDERDRAIN A - A(EDGE)

EDGE UNDERDRAIN B - E

6° Minimum Topsoli —

└-Pipe Underdrain Aggregate

UNDERDRAIN AT MEDIAN NOSE

6" Pipe Underdrain

Aggregate Base Course ...

Pipe Underdrain Aggregate

EDGE UNDERDRAIN BEHIND CURB D - D

TEMPORARY SUPPORT DETAIL &

Inside Limits of Blanket Underdrain

All roadway excavation in rock will be undercut no less than 15" for the full width of the roadway as shown.

BLANKET UNDERDRAIN A - A(PIPE)

PIPE UNDERDRAIN B - B

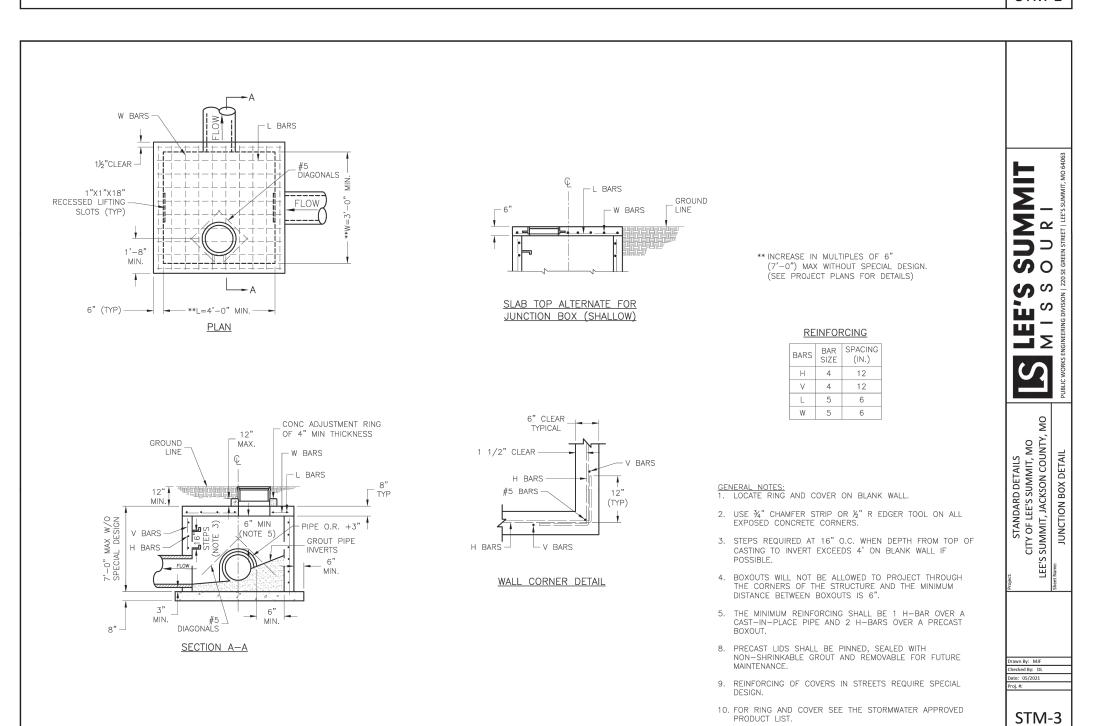
OUTLET PIPE C - C

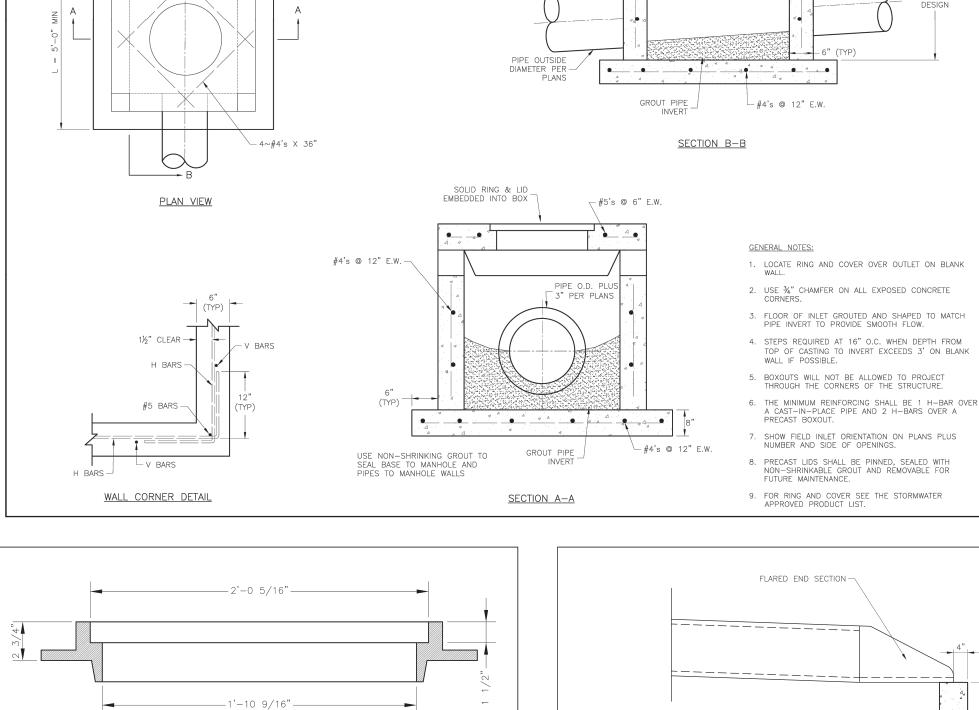
PIPE UNDERDRAIN BEHIND CURB D - D

Filter Fabric

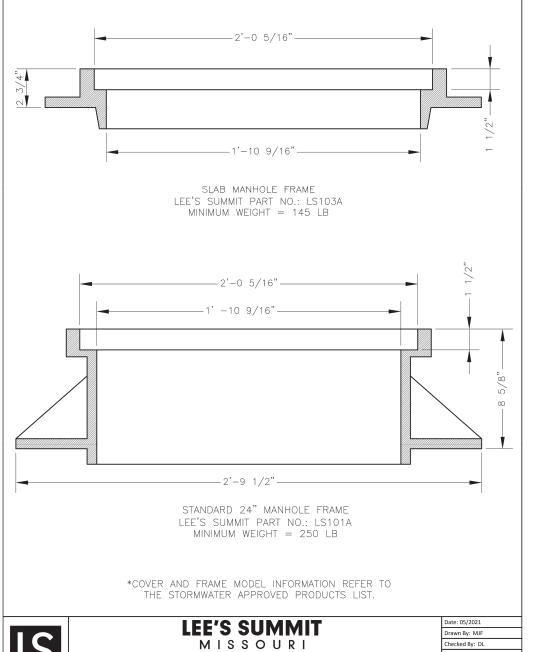
Low Permeability Soli Backfili (90% Compactio

Aggregate Base Course ...

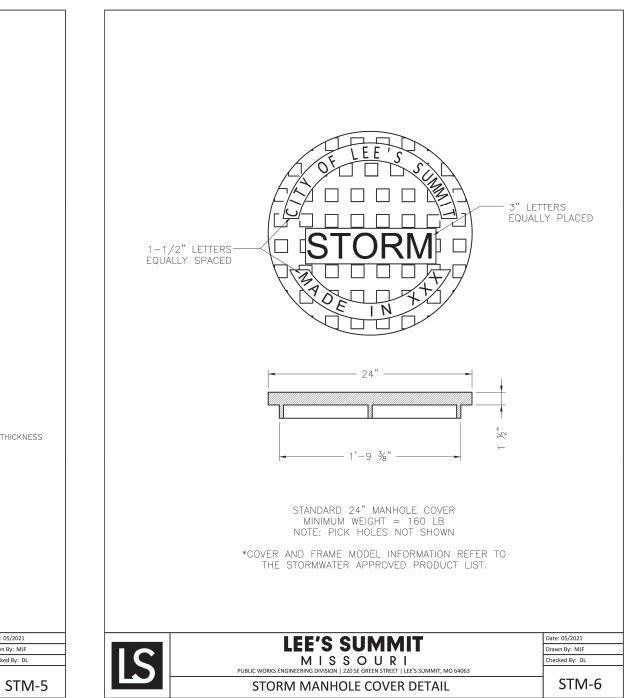




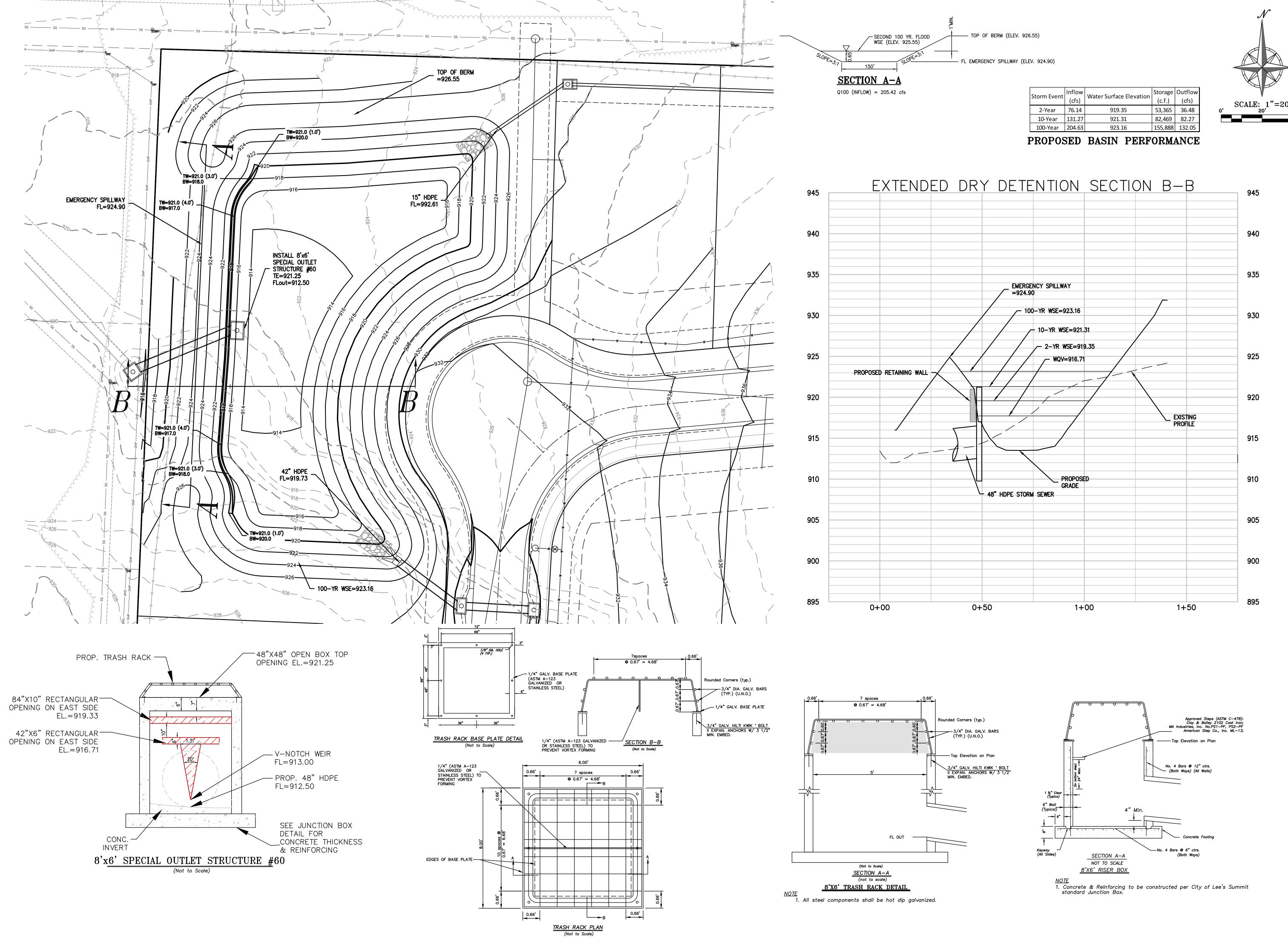
DWG-7



STORM MANHOLE FRAME DETAIL



UBBEN, JR NUMBER 5/2/2023



DOUGLAS EUGENE UBBEN, JR. NUMBER PE-2011010998

HELPS ENGINEERING, INC.
1270 N. Winchester
Olathe, Kansas 66061
(913) 393-1155
Fax (913) 393-1166

PHELPS ENGINEER

1270 N. Winche
INCINEERING

(913) 393-115

WWW.phelpsenginee

PLANNING

DETENTION PLAN ORCHARD WOODS SUMMIT, JACKSON COUNTY, MIS

 No.
 Date
 Revisions:
 By App.

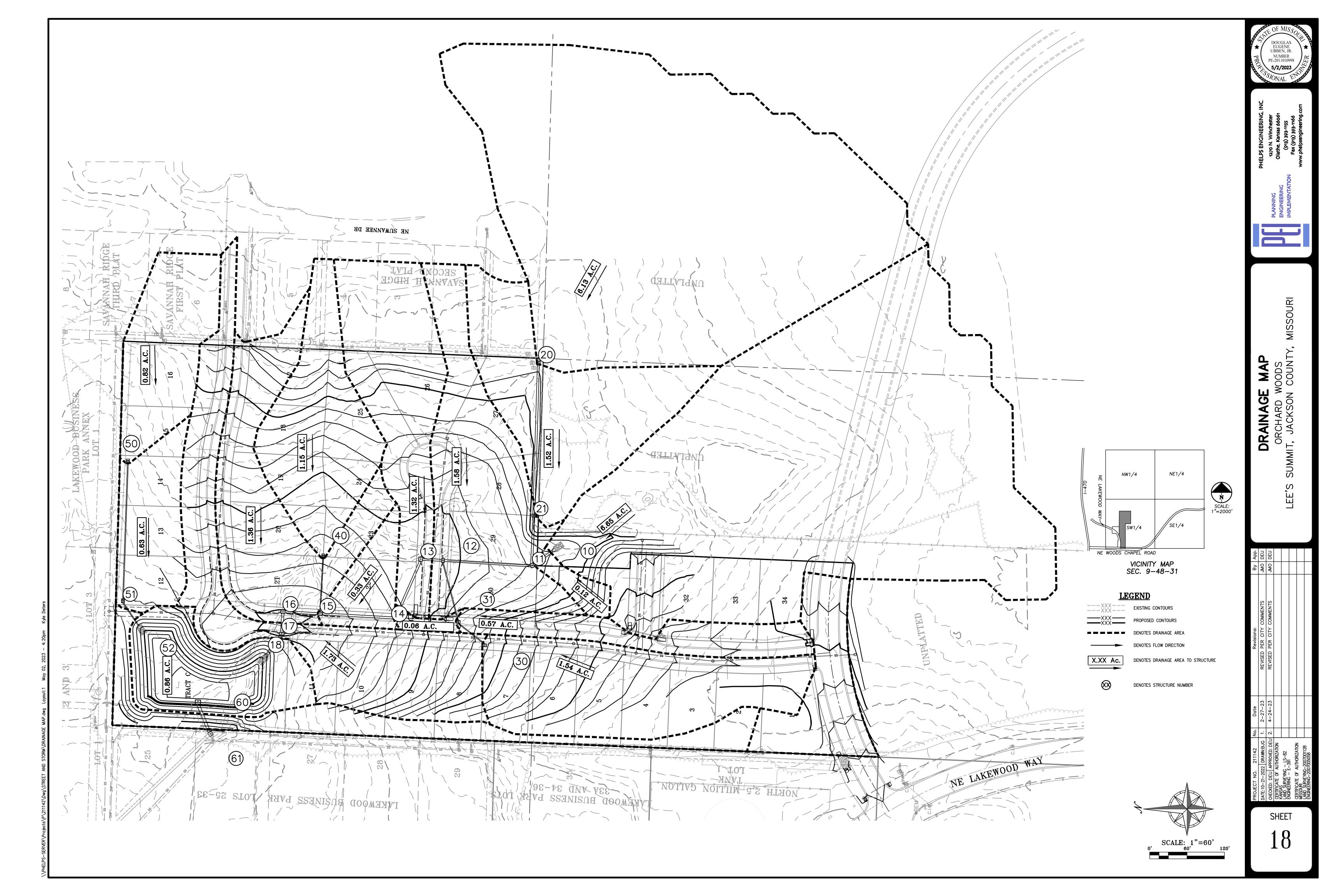
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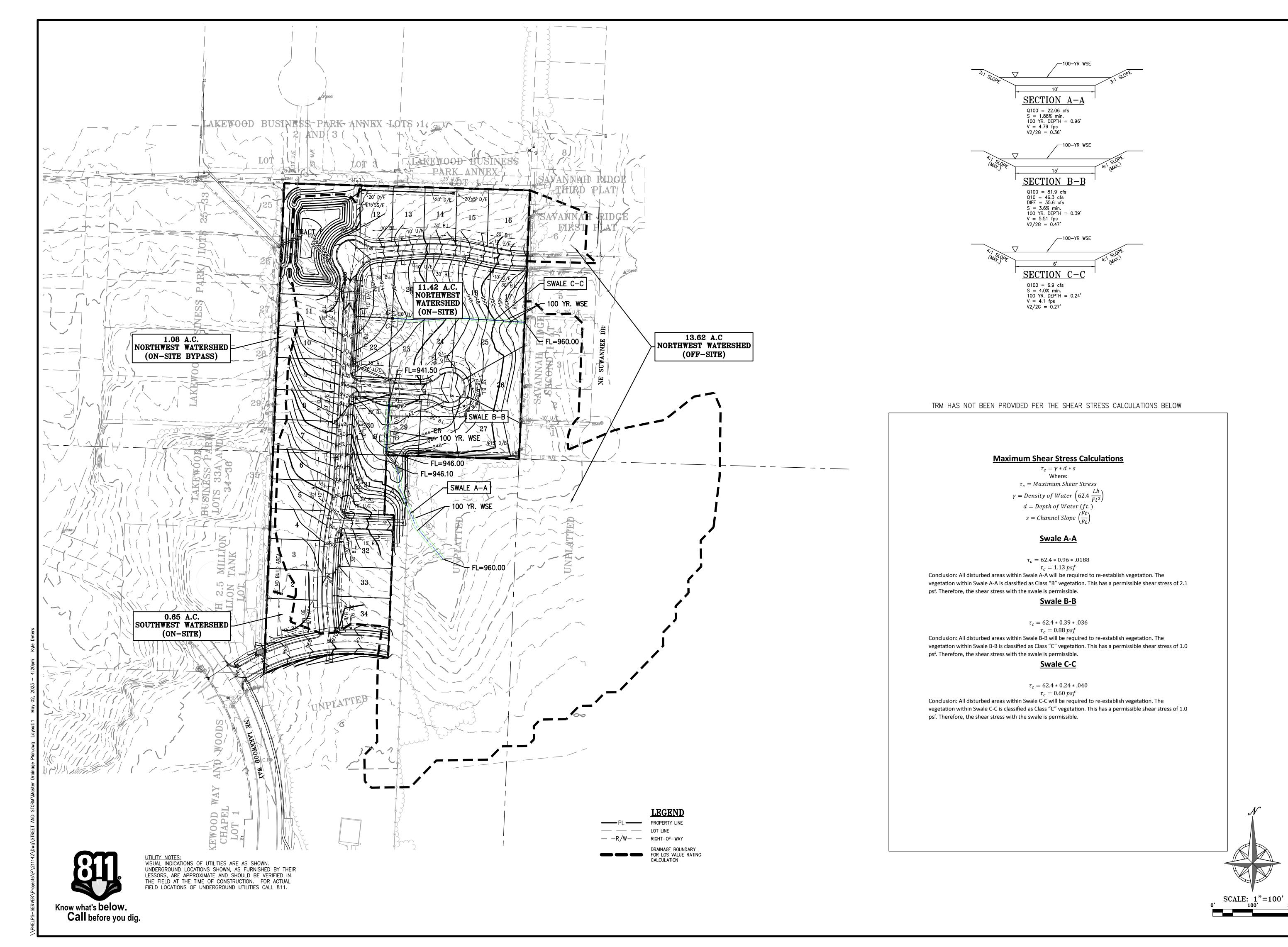
17



GUTTER SPREAD CALCULATIONS

GUTTER SPREAD CALCULATIONS

| ſ | Project: Orchard Woods (PEI #211142) Date: Tuesday, March 21, 2023 By: KAD INLET TIME CALCS | | | | | | Date: Tuesday, March 21, 2023 "K" = 1.0 By: KAD "K" = 1.0 | | | | | | | | | | | | | | | | | | | | |
|----------|--|-----------------------------|------|-----|------------------------|----------|---|-----|-----------------|------|--------------------|---|------------------------|-----------------------|--------------|--|--------|-----------------------------------|-------|--------|-------|-------------------------------------|---|-------|----------------------------------|-------------------------------------|------------|
| NLET NO. | С | DISTANCE (FT) (<100') | | Ti | Travel Dist (FT) | Velocity | тт | тс | l 10 (in/hr) | С | Incr. A (Acres) | Incremental Runoff Q ₁₀ (cfs) | Street Slope (%) | Cross Slope (%) | Curb Type | Allow. Street Spread from Bk C&G | Spread | Depth of Water at Curb (ft) | Inlet | Gutter | Inlet | Bypass From Upstream (cfs) | Total Discharge to Inlet (cfs) | check | Bypass to Downstream (cfs) | Downstream Bypass Structure # | REMARKS |
| 30 | 0.51 | 100 | 2.00 | 8.4 | 500 | 10 | 0.8 | 9.2 | 6.25 | 0.51 | 1.54 | 4.91 | 8.00 | 2.08 | А | 12.0 | 7.9 | 0.25 | 6 | 14.48 | 1.79 | | 4.91 | OK | 3.12 | 17 | CURB INLET |
| 31 | 0.51 | 60 | 2.00 | 6.5 | 500 | 10 | 0.8 | 7.3 | 6.70 | 0.51 | 0.57 | 1.95 | 8.00 | 2.08 | Α | 12.0 | 5.5 | 0.25 | 6 | 14.48 | 1.25 | | 1.95 | OK | 0.70 | 14 | CURB INLET |
| 12 | 0.51 | 100 | 2.00 | 8.4 | 300 | 10 | 0.5 | 8.9 | 6.32 | 0.51 | 1.58 | 5.09 | SUMP | 2.08 | Α | 12.0 | SUMP | 0.25 | 6 | SUMP | SUMP | 0.70 | 5.79 | OK | 0.00 | N/A | CURB INLET |
| 13 | 0.51 | 100 | 2.00 | 8.4 | 380 | 10 | 0.6 | 9.0 | 6.29 | 0.51 | 1.32 | 4.24 | SUMP | 2.08 | А | 12.0 | SUMP | 0.25 | 6 | SUMP | SUMP | 0.00 | 4.24 | OK | 0.00 | N/A | CURB INLET |
| 14 | 0.51 | 25 | 2.00 | 5.0 | 300 | 10 | 0.5 | 5.5 | 7.20 | 0.51 | 0.06 | 0.22 | 8.00 | 2.08 | А | 12.0 | 2.0 | 0.25 | 6 | 14.48 | 0.21 | | 0.22 | OK | 0.01 | 15 | CURB INLET |
| 15 | 0.51 | 100 | 2.00 | 8.4 | 100 | 10 | 0.2 | 8.6 | 6.39 | 0.51 | 0.66 | 2.15 | 5.00 | 2.08 | А | 12.0 | 6.2 | 0.25 | 6 | 11.45 | 1.51 | 0.01 | 2.16 | OK | 0.65 | 16 | CURB INLET |
| 16 | 0.51 | 40 | 2.00 | 5.3 | 30 | 10 | 0.1 | 5.4 | 7.23 | 0.51 | 0.98 | 3.61 | SUMP | 2.08 | А | 12.0 | SUMP | 0.25 | 6 | SUMP | SUMP | 0.65 | 4.26 | OK | 0.00 | N/A | CURB INLET |
| 17 | 0.51 | 40 | 2.00 | 5.3 | 200 | 10 | 0.3 | 5.6 | 7.17 | 0.51 | 1.11 | 4.06 | SUMP | 2.08 | Α | 12.0 | SUMP | 0.25 | 6 | SUMP | SUMP | 3.12 | 7.18 | OK | 0.00 | N/A | CURB INLET |



DOUGLAS EUGENE UBBEN, JR.
NUMBER PE-2011010998
5/2/2023

N. Winchester e. Kansas 66061 213) 393-1155 (913) 393-1166

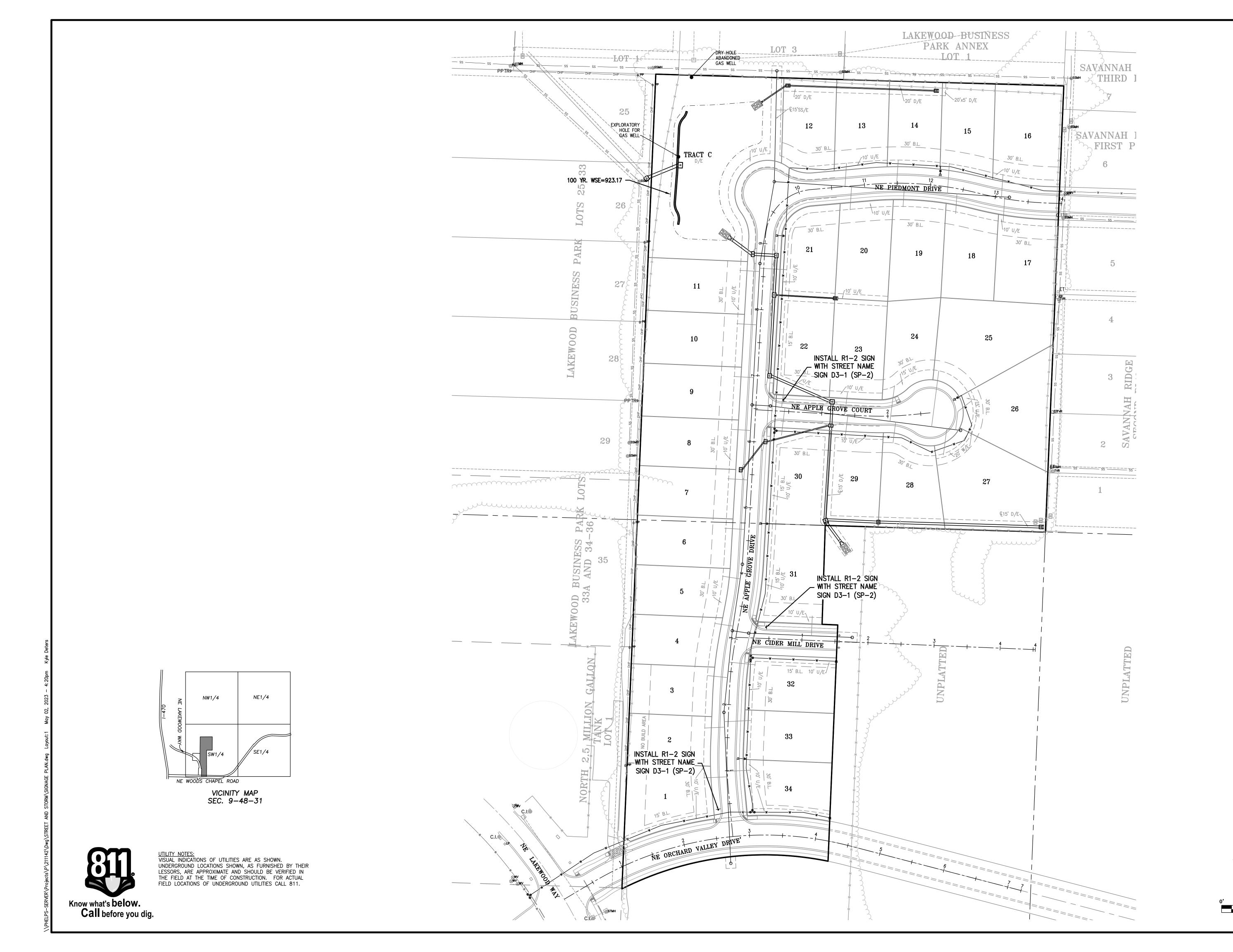
UNG Clathe, Kanss
UNG (913) 393
UTATION Fax (913) 39

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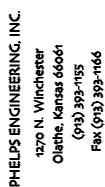
MASTER DRAINAGE PLAN ORCHARD WOODS

Revisions:
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SED PER CITY COMMENTS
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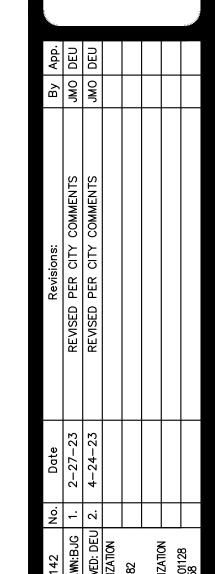


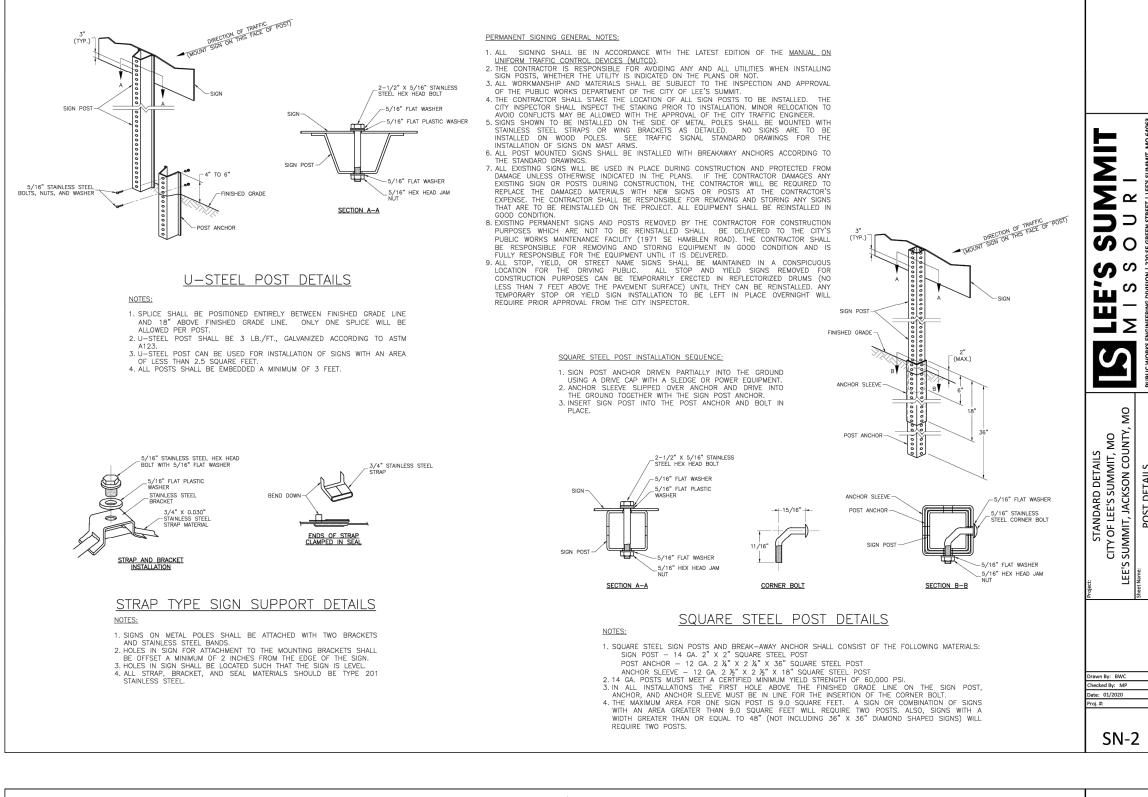


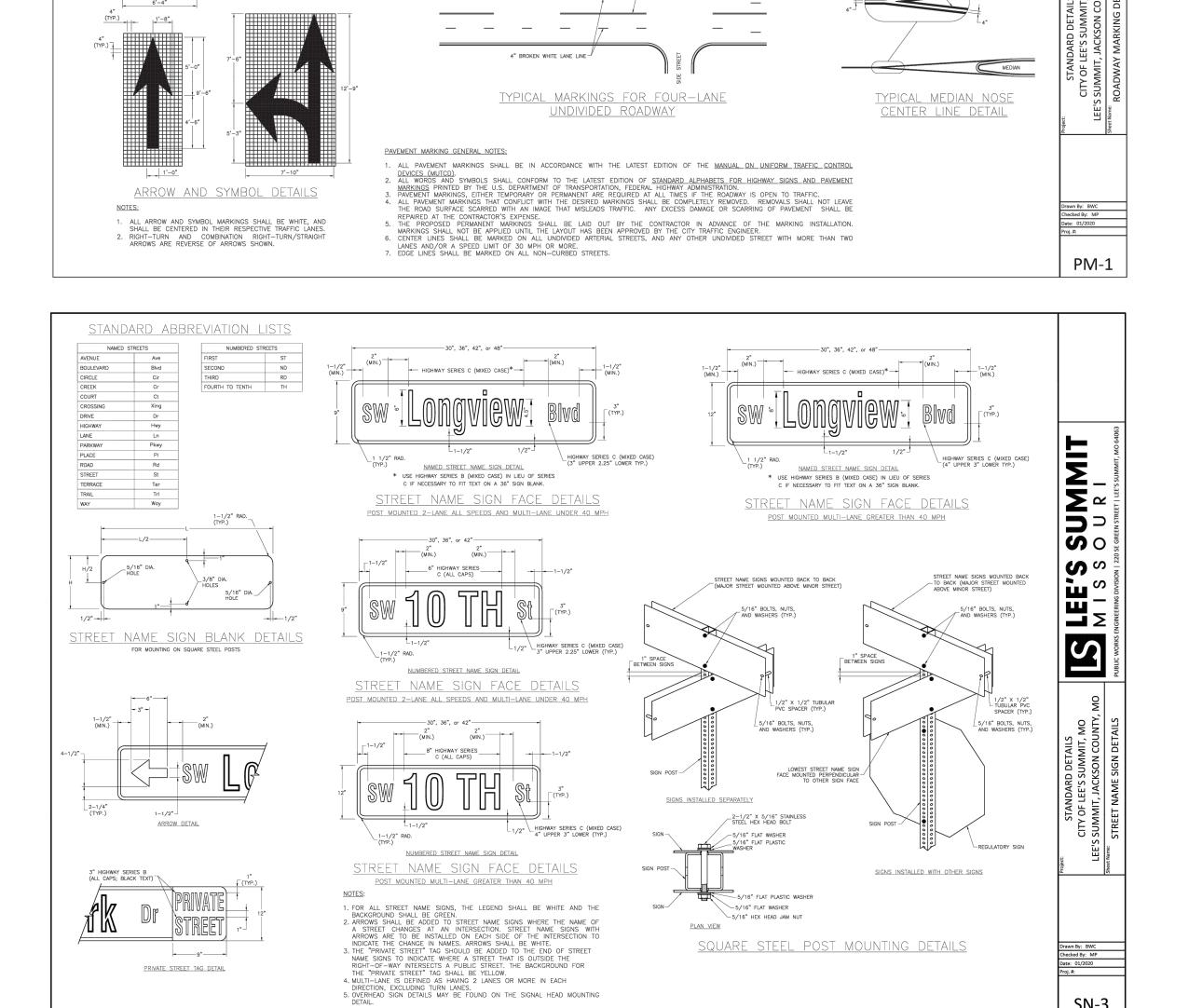




S







__24" SOLID WHITE STOP LINE (TYP.)

SHARED-USE TRAIL

-4" DOUBLE YELLOW CENTER LINE

SUMMIT

SO

LEE (S

SN-3

4" DOUBLE YELLOW CENTER LINE

24" SOLID WHITE STOP LINE

TYPICAL MID-BLOCK OR SCHOOL CROSS WALK

COMBINATION 4" SOLID AND 4" BROKEN LINES

4" SOLID DOUBLE LINES

TYPICAL LINE DETAILS

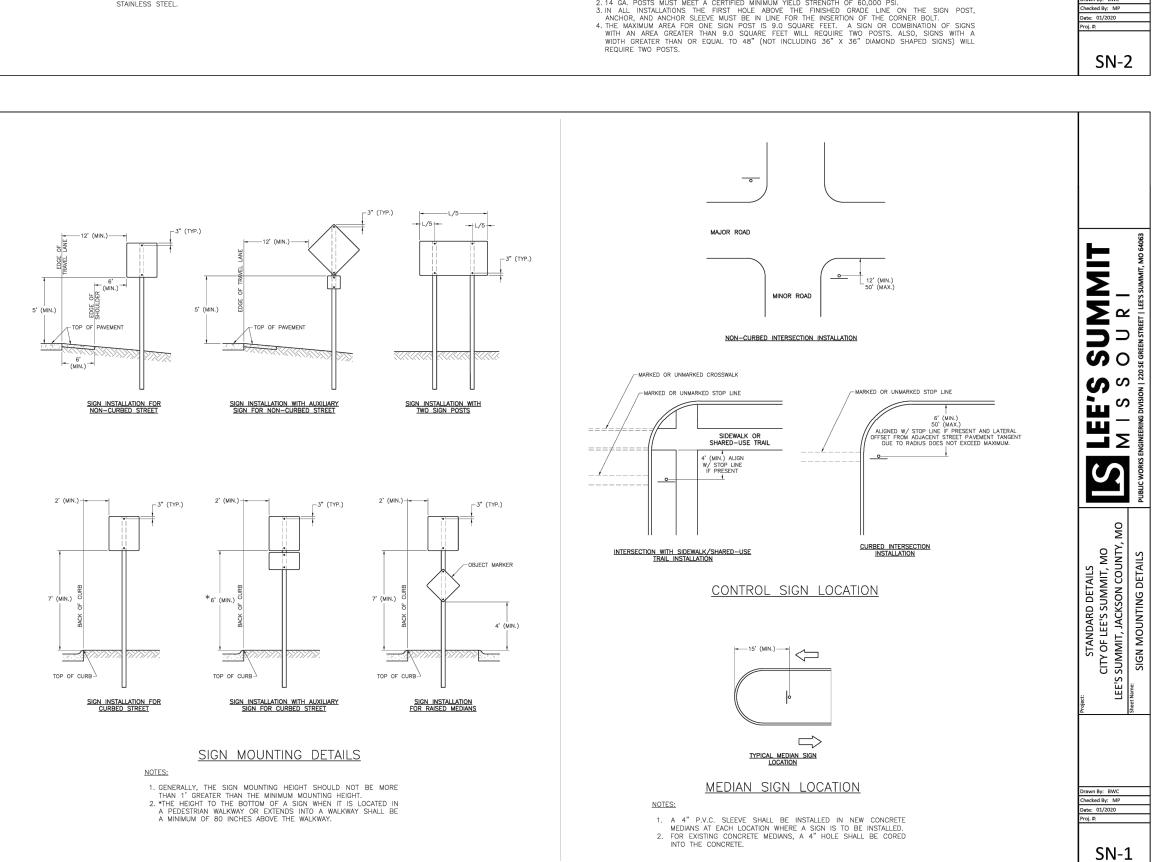
ALL EDGE LINE, CENTER LINE, AND LANE LINE PAVEMENT MARKINGS SHALL BE 4" WIDE UNLESS OTHERWISE NOTED.
 EDGE LINES SHALL BE CONTINUOUS SOLID WHITE OR YELLOW LINES. RIGHT SIDE EDGE LINES SHALL BE SOLID WHITE. MEDIAN OR LEFT SIDE EDGE LINES ON DIVIDED ROADWAYS ARE TO BE SOLID YELLOW. EDGE LINES AND CENTER LINES SHALL BE CONTINUOUS ACROSS DRIVEWAYS.

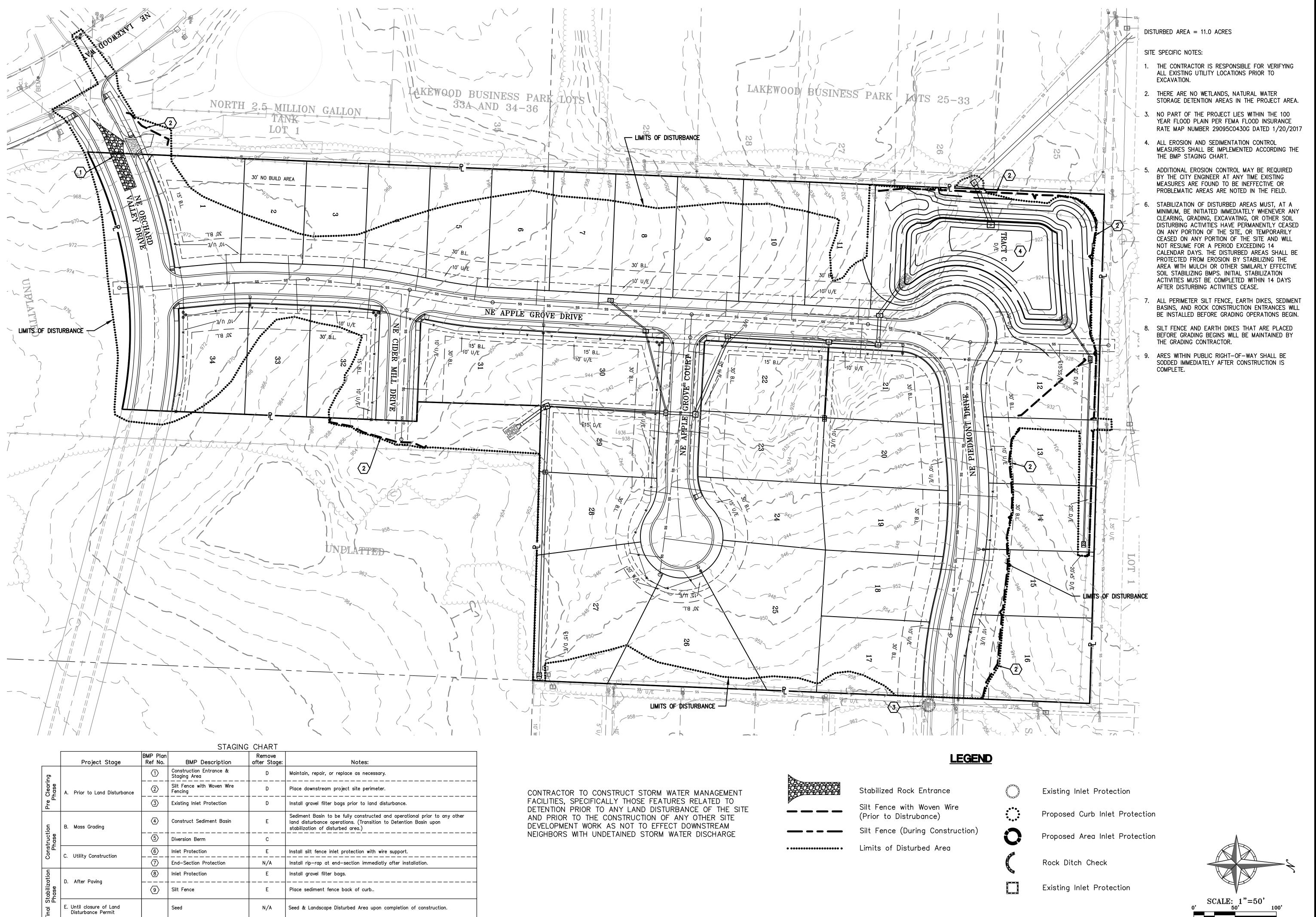
SHARED-USE TRAIL

6" SOLID WHITE CROSSWALK LINE (TYP.) INSTALLED BETWEEN CURB RAMPS

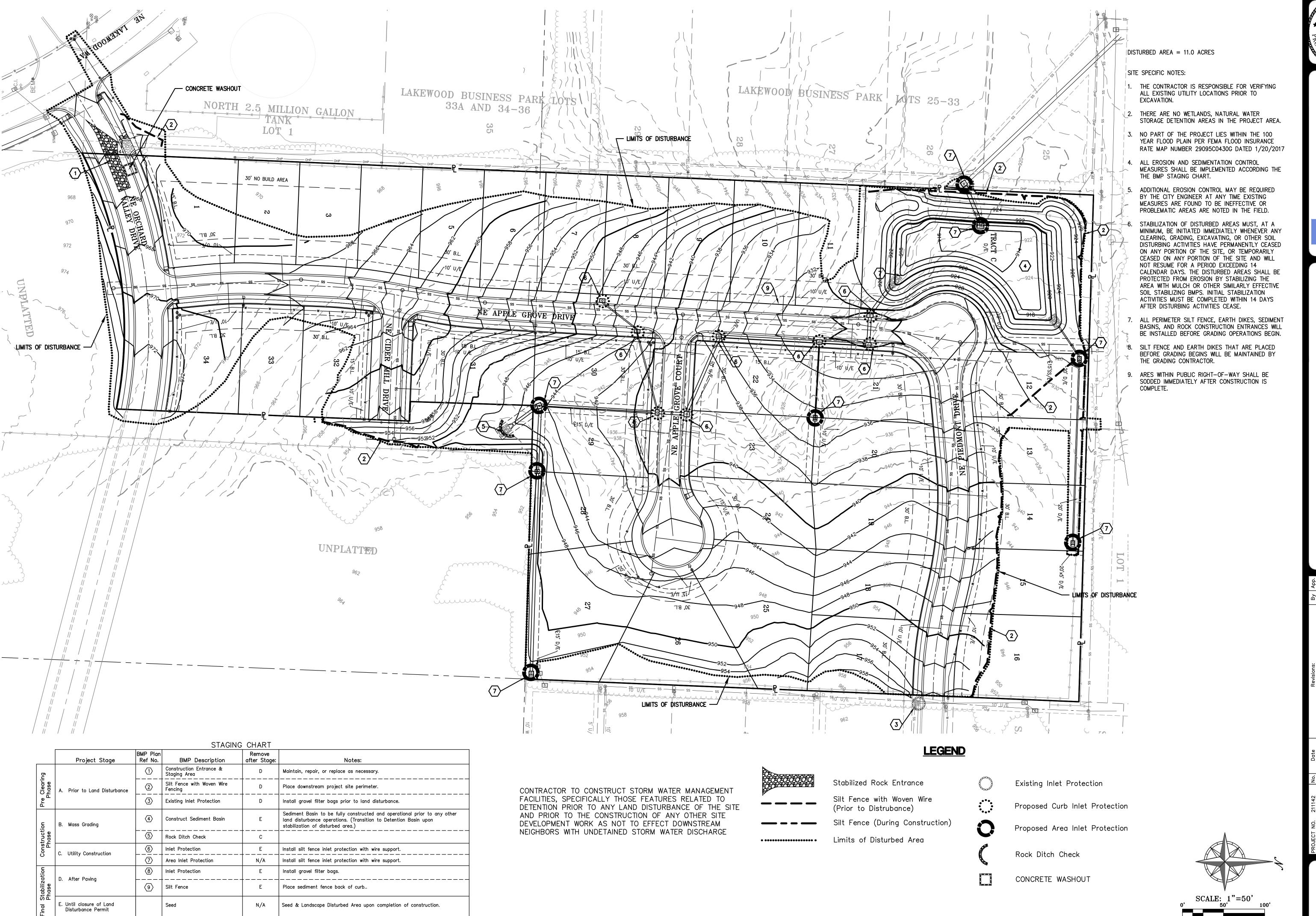
TYPICAL INTERSECTION MARKINGS

. TRANSVERSE CROSSWALK LINES SHALL BE INSTALLED SUCH THAT THE DISTANCE BETWEEN LINES IS AT LEAST 6 FEET OR 10 FEET.

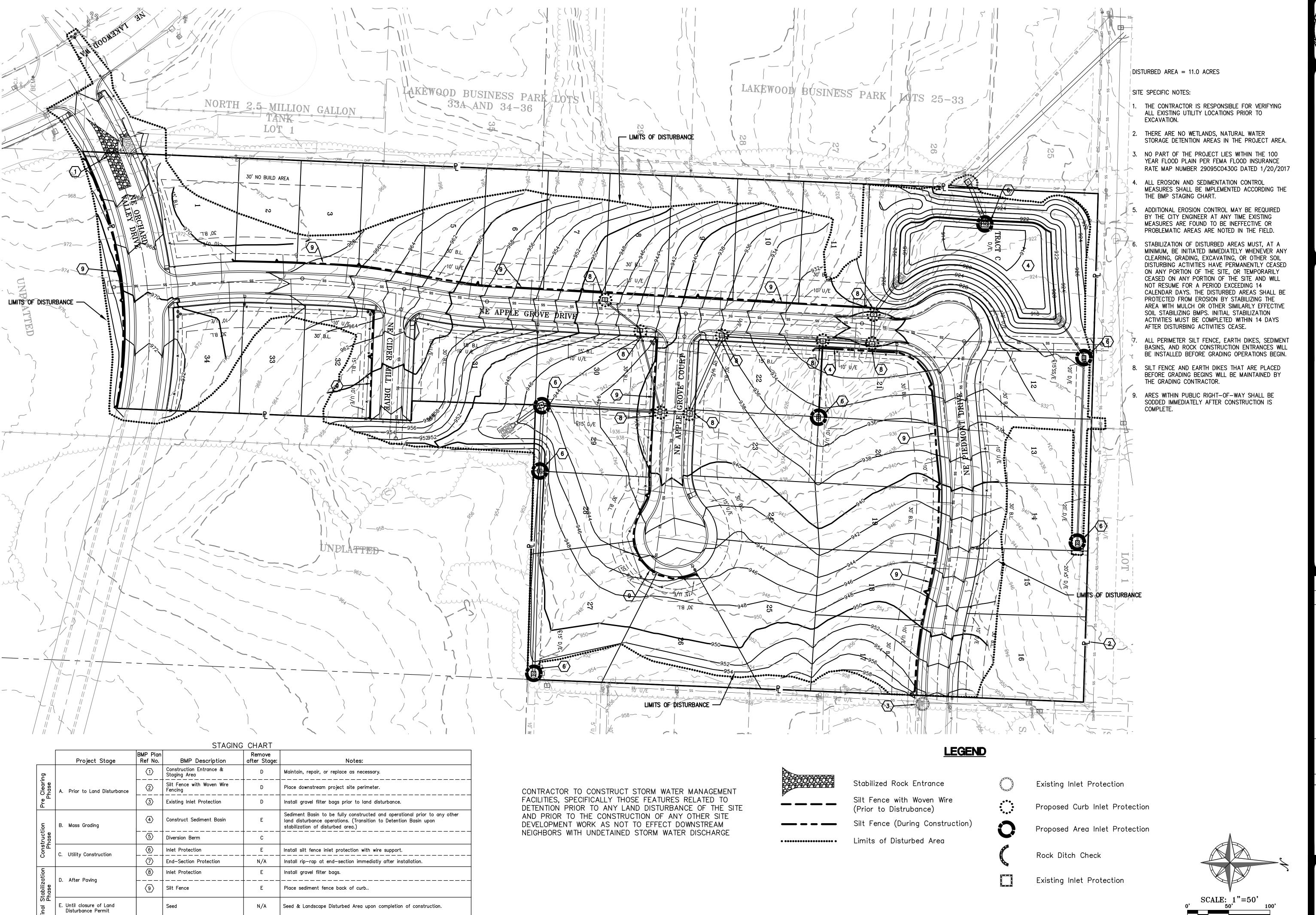




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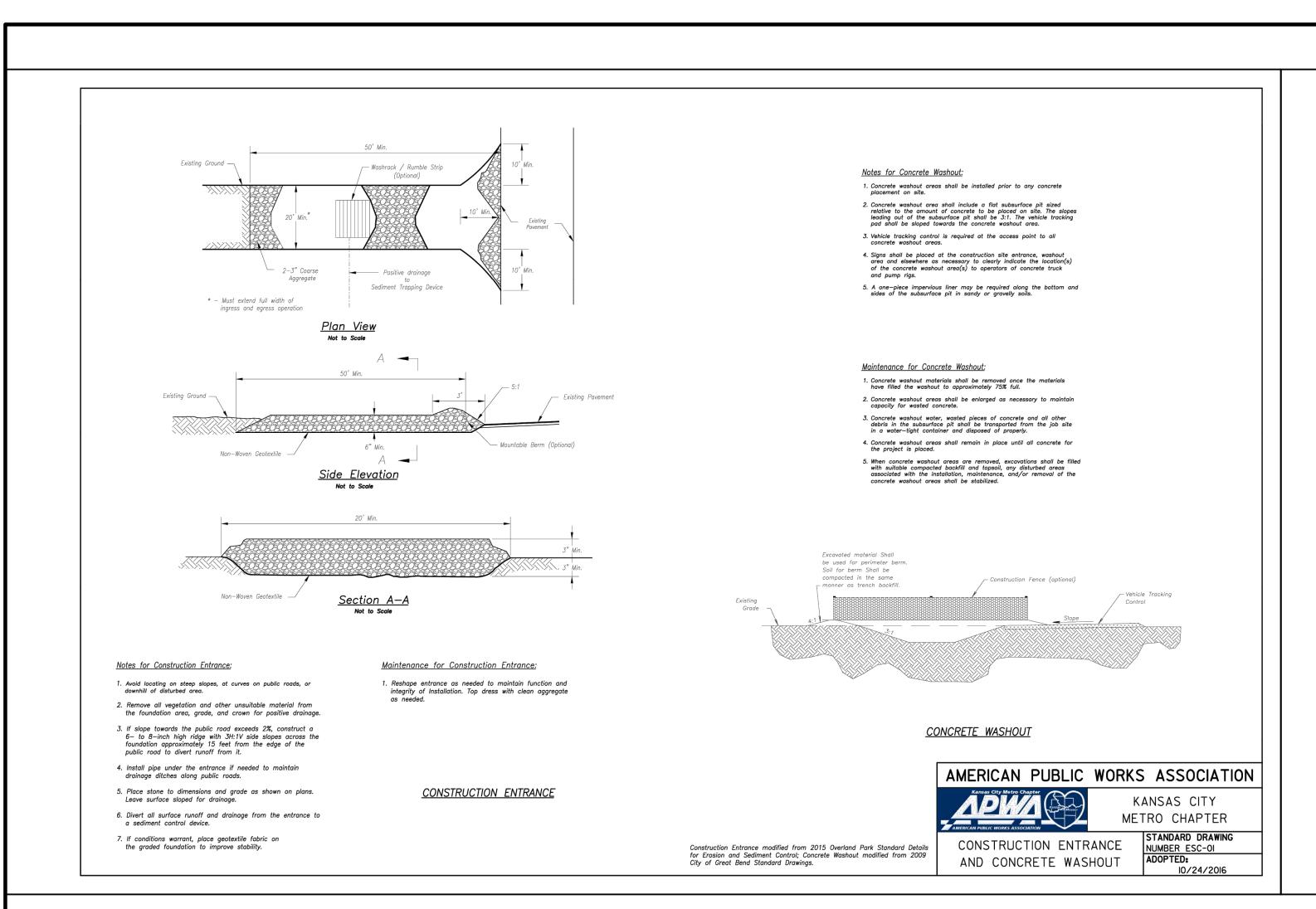


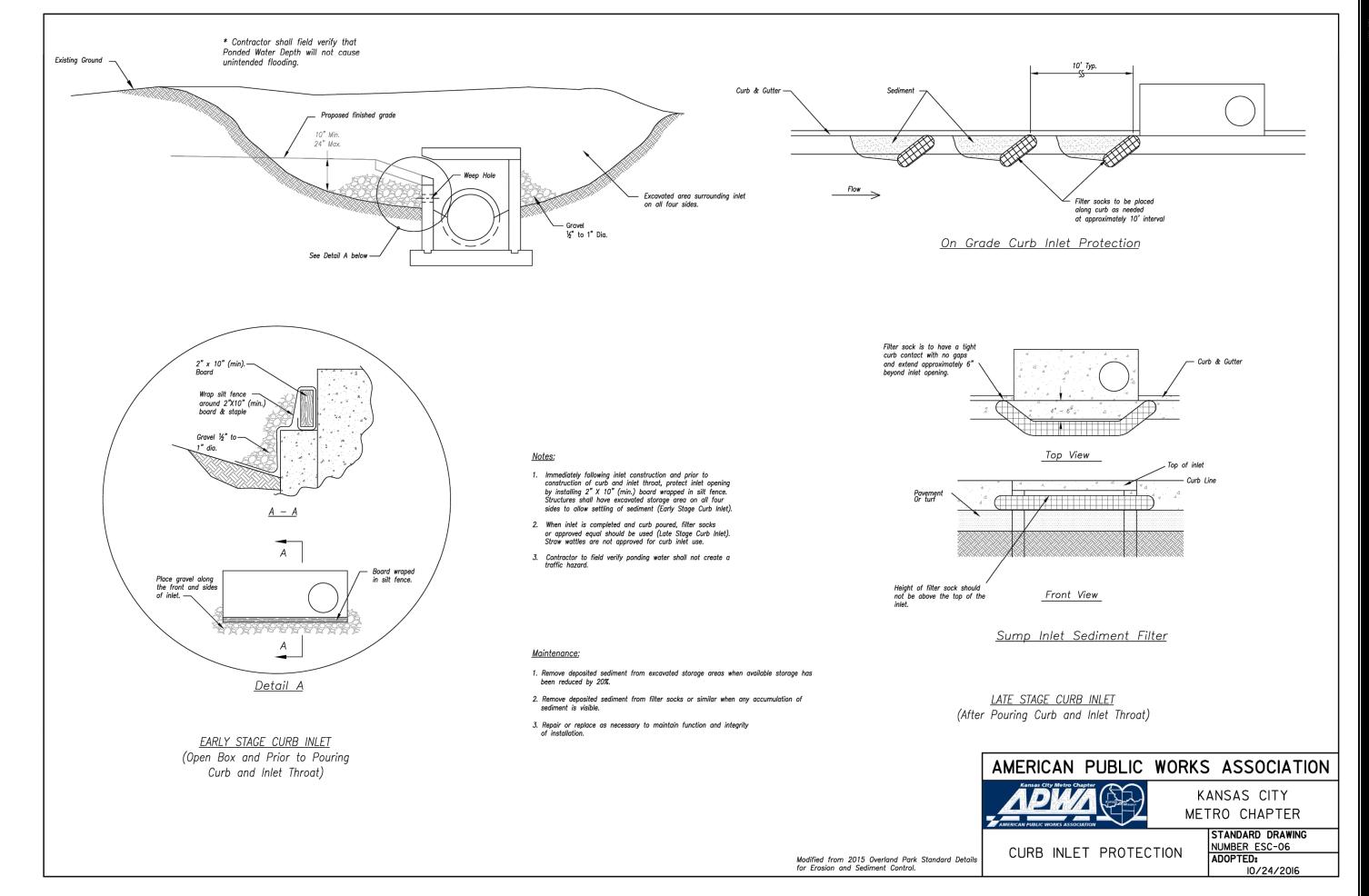
UBBEN, JF

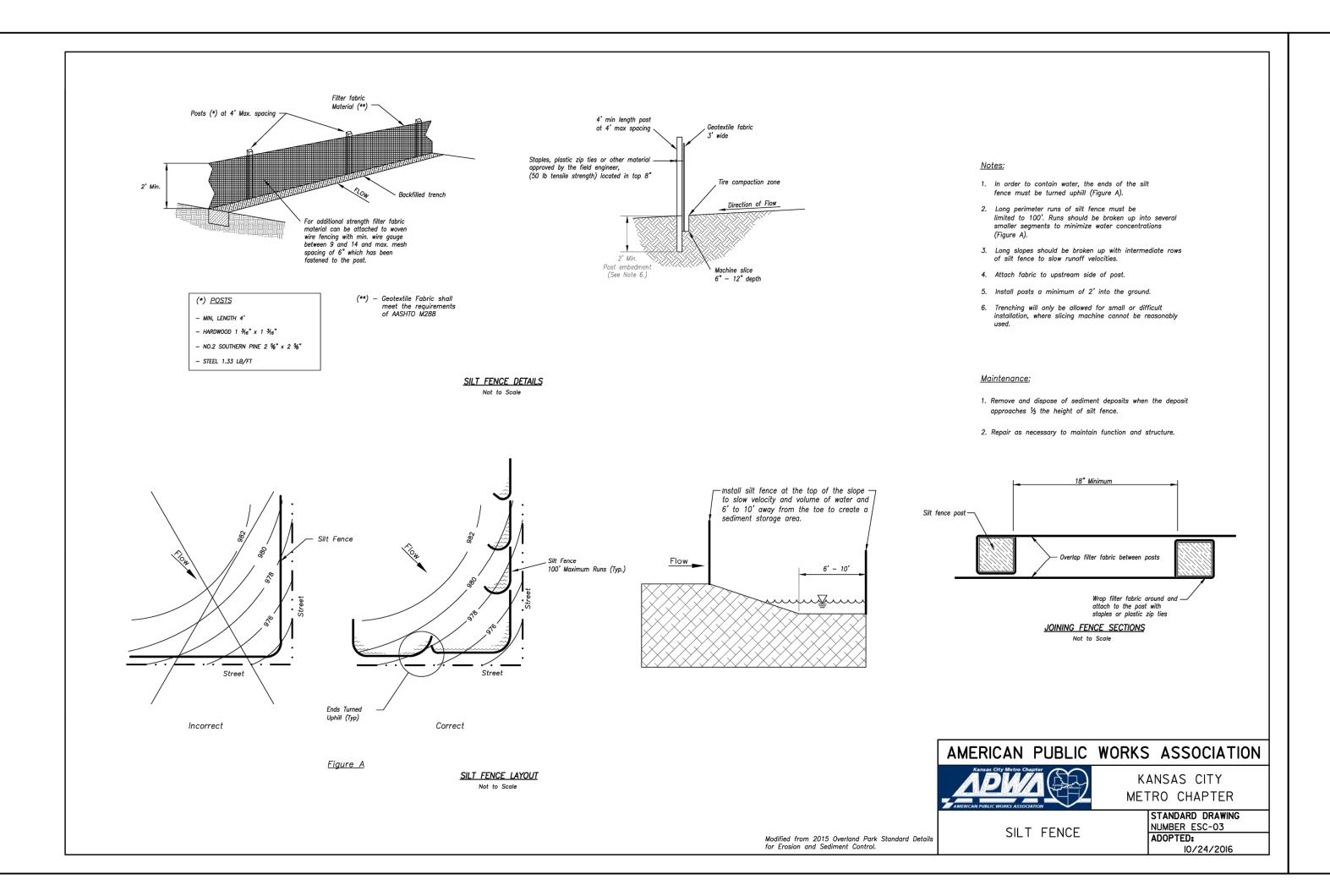


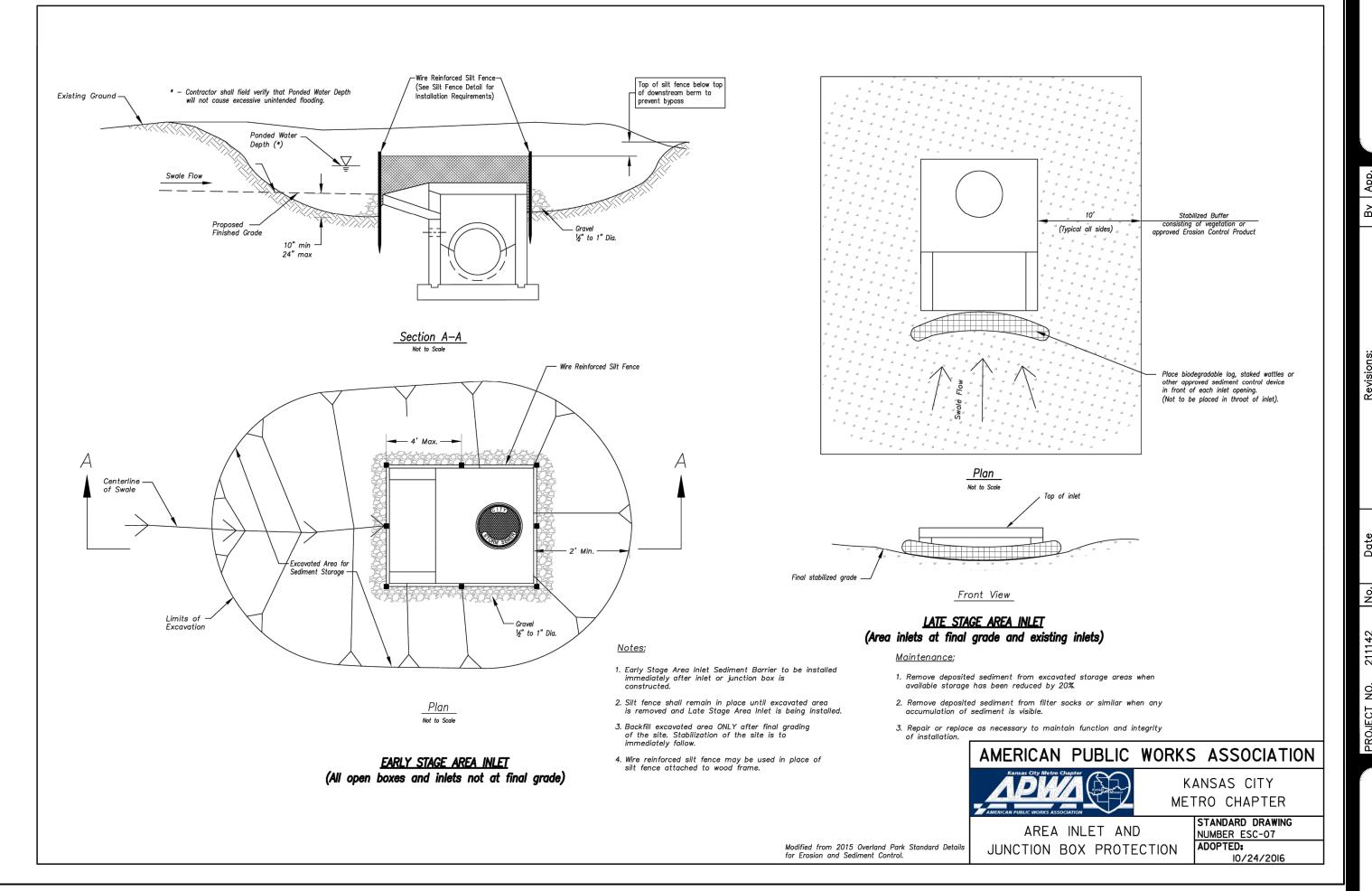
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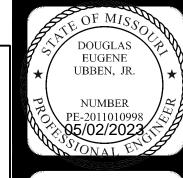
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PE-2011010998
95/02/2023
9-1166
eering.com

PHELPS ENGINEERIN 1270 N. Wincheste 0lathe, Kansas 660 NG (913) 393-1155 TATION Fax (913) 393-1166

PLANNING ENGINEERING IMPLEMENTATION

SION CONTROL DETAILS
ORCHARD WOODS

 42
 No.
 Date
 Revisions:
 By Ap

 MN:BJG
 1.
 2-27-23
 REVISED PER CITY COMMENTS
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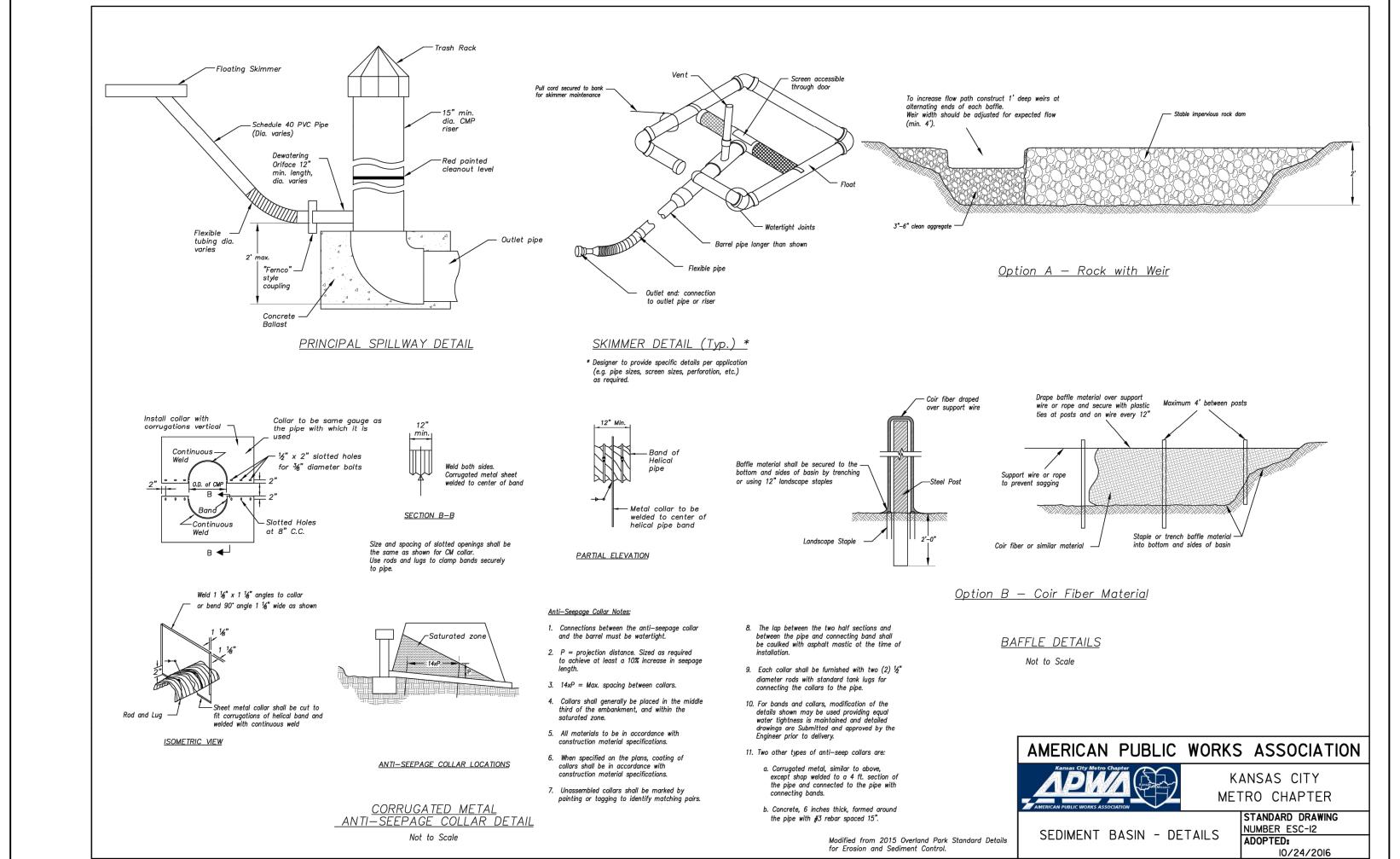
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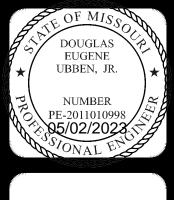
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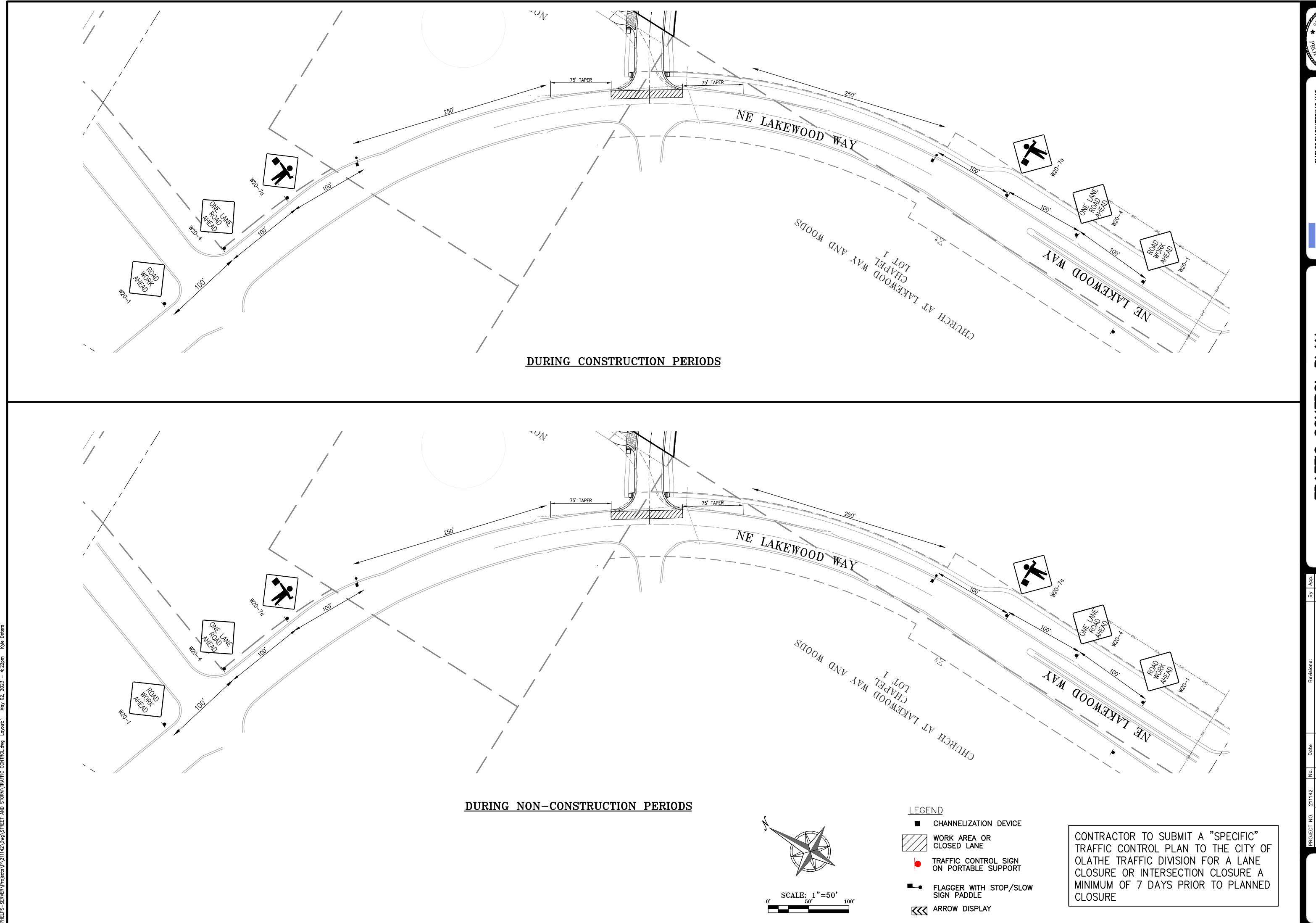




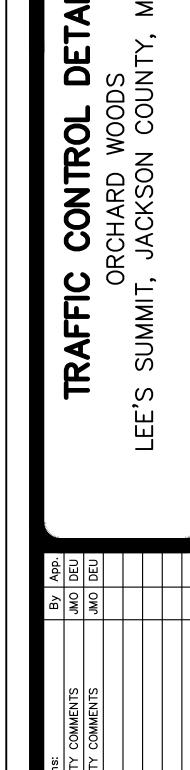
AIL

CONTROL

SION







WARNING LIGHTS SHALL BE USED ON BARRICADES IN PLACE AT NIGHT AND ON WARNING SIGNS WHICH ALERT DRIVERS ABOUT A CHANGE IN ALIGNMENT, TRAFFIC CONTROL, LANE CLOSURE, OR ROAD CLOSURE.

FLAGGERS SHALL BE USED WHERE INDICATED ON THE PLANS, WHERE CONSTRUCTION VEHICLES INTERACT WITH NORMAL TRAFFIC, OR WHERE CONSTRUCTION ACTIVITIES IMPOSE A RESTRICTION ON TRAFFIC, AS DIRECTED BY THE CITY TRAFFIC ENGINEER. WHERE FLAGGERS ARE USED, ADVANCE SIGNING SHALL BE ERECTED AS SHOWN IN THE DETAILS OR AS SPECIFIED IN THE MUTCD. FLAGGERS SHALL MEET THE REQUIREMENTS IN THE MUTCO IN REGARD TO CHARACTER, TRAINING, ATTIRE, AND BEHAVIOR TRIM-LINES ARE THE CITY'S PREFERRED CHANNELIZING DEVICE. CONES MAY NOT BE USED AT NIGHTTIME

TRAFFIC CONTROL DEVICES NOT IN USE OR NOT APPLICABLE SHALL BE EITHER COVERED OR REMOVED FROM THE WORK AREA.

THE CONTRACTOR SHALL USE BARRICADES, STREET PLATES, OR FENCING AS NEEDED TO EFFECTIVELY SHIELD PEDESTRIAN AND VEHICULAR TRAFFIC FROM EXPOSED OBJECTS, EXCAVATIONS, AND CONSTRUCTION ACTIVITIES.

CONTROL) OR WHERE OTHERWISE NORMALLY PERMITTED. CONSTRUCTION MATERIALS, INCLUDING TRAFFIC CONTROL AND VEHICLES SHALL NOT RESTRICT SIGHT DISTANCE FOR VEHICLES EXITING AT STREETS OR

CONSTRUCTION MATERIALS SHALL BE KEPT OFF OF SIDEWALKS, CONSOLIDATED IN ONE LOCATION WITHIN CITY RIGHT-OF-WAY, AND REMOVED DAILY UNLESS OTHERWISE APPROVED BY THE INSPECTOR. DIRT, MUD, AND OTHER CONSTRUCTION DEBRIS ON STREETS AND SIDEWALKS SHALL BE REMOVED IMMEDIATELY.

BETWEEN THE HOURS OF 7:00 A.M. AND 9:00 A.M. OR 4:00 P.M. AND 6:00 P.M. MONDAY THROUGH FRIDAY UNLESS OTHERWISE INDICATED IN THE SPECIFICATIONS.

TRAFFIC ENGINEER. A "NARROW LANES" SIGN SHALL BE INSTALLED IN ADVANCE OF A LANE WIDTH REDUCTION TO LESS THAN 11 FEET.

14. ALL EDGE DROP-OFFS OF MORE THAN 2 INCHES AND LESS THAN 4 INCHES SHOULD BE PROTECTED BY A WEDGE OR BARRIER AND ALL EDGE DROP-OFFS GREATER THAN 4 INCHES SHALL HAVE EDGE PROTECTION (SEE TRAFFIC CONTROL SPECIFICATIONS FOR EDGE TREATMENT REQUIREMENTS)

15. THE "WORKERS" SYMBOLIC SIGN (MUTCD NO. W21-1A) MAY BE USED INSTEAD OF THE "ROAD WORK AHEAD" SIGN FOR WORK WITH A DURATION OF 12 HOURS OR LESS. THE "END ROAD WORK" SIGN IS NOT REQUIRED TO BE INSTALLED AFTER THE "WORKERS" SIGN.

16. NO TRAFFIC SIGNAL SHALL BE ALTERED OR MODIFIED IN ANY WAY WITHOUT A PLAN APPROVED BY THE CITY TRAFFIC ENGINEER.

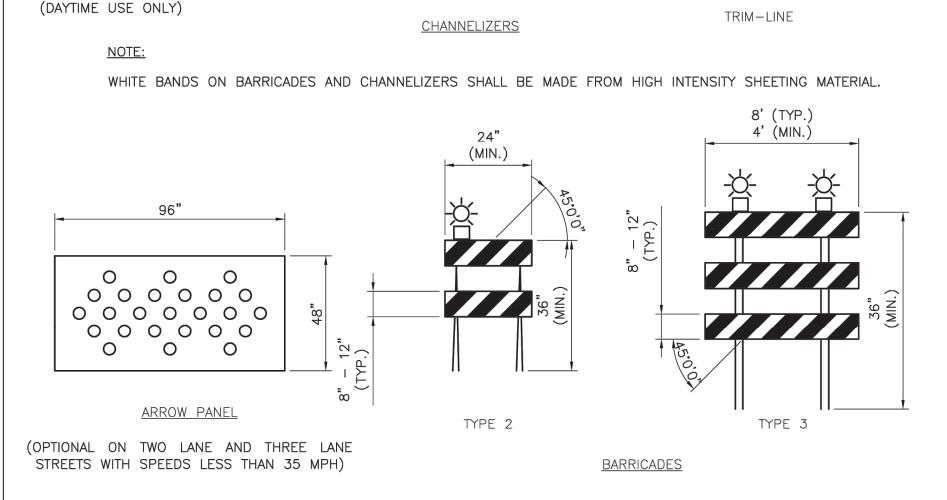
17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL TRAFFIC CONTROL DEVICES ON AN AROUND-THE-CLOCK BASIS, WHETHER OR NOT WORK IS ACTIVELY BEING PURSUED AND ANY DEFICIENCIES NOTED SHALL BE CORRECTED IMMEDIATELY.

18. THE TRAFFIC CONTROL REQUIREMENTS SHOWN ON THESE PLANS ARE MINIMUM REQUIREMENTS ONLY AND DO NOT ATTEMPT TO ADDRESS IN DEPTH THE VARIETY OF SITUATIONS THAT MAY OCCUR ONCE CONSTRUCTION HAS STARTED. IN NO WAY DO THE REQUIREMENTS SHOWN ON THESE PLANS RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY FOR SELECTING THE PROPER TRAFFIC CONTROL DEVICES AND IMPLEMENTATION PROCEDURES THAT WILL ASSURE THE SAFETY OF DRIVERS, PEDESTRIANS, AND WORKERS AT ALL TIMES.

COST FROM THE CONTRACTOR'S PAY ESTIMATE.

B. STOP THE WORK UNTIL DEFICIENCIES ARE CORRECTED. C. SUSPEND ALL PAY ESTIMATES UNTIL DEFICIENCIES ARE CORRECTED, OR

D. PLACE THE CONTRACTOR IN DEFAULT.



LANE CLOSURE - THREE LANE STREET

4" - 6"

(TYP.)

 st install signs every 200 feet throughout the closed lane or as needed

SIGN LEGEND

KEEF

RIGHT

ROAD

CLOSED

ONE LANG ROAD AHEAD

JSE ONLY AS APPROVED

BY CITY

TRAFFIC ENGINEER

1/2L

CLOSED

END ROAD WORK

4" - 6"

(TYP.)

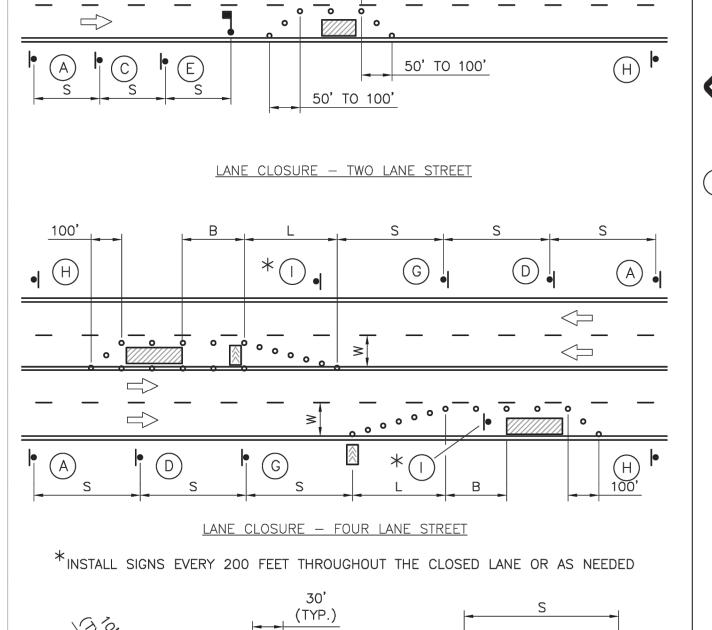
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SYMBOL LEGEND

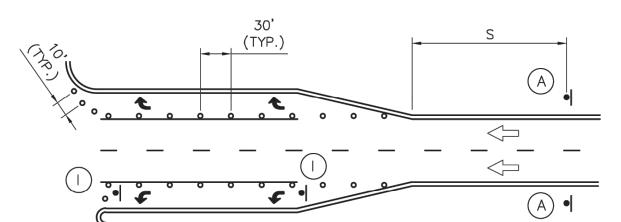
• - CHANNELIZER

→ ARROW PANEL

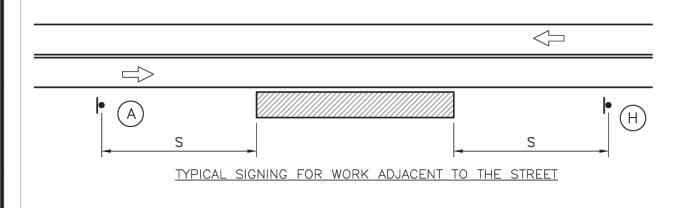
- FLAGGER

WORK AREA

← DIRECTION OF TRAVEL



TURN LANE CLOSURE



| GUIDELINES FO LONGITUDINAL E "E | BUFFER SPACE | MAXIMUM CHANNELIZER SPACING | | | | | |
|---------------------------------------|------------------|--------------------------------|------------------------|-------------------------|--|--|--|
| SPEED LIMIT (MPH) | LENGTH (FEET) | SPEED LIMIT (MPH) | WITHIN TAPER (FEET) | OUTSIDE TAPER (FEET) | | | |
| 25 | 35 | 25 | 25 | 50 | | | |
| 30 | 55 | 30 | 30 | 60 | | | |
| | 85 | 35 | 35 | 70 | | | |
| 35 | | 40 | 40 | 80 | | | |
| 40 | 120 | 45 | 45 | 90 | | | |
| 45 | 170 | | | - | | | |

| | 70 | | 170 | | | | |
|-------|-------------------|----------|------------------|-------|-----------|--------------|-------------------|
| | | TAPER | | | | | |
| | | 1711 EIX | SIGN SPACING "S" | | | | |
| SPEED | TIMIT | MINIMUM | JION SI ACINO S | | | | |
| 1 | SPEED LIMIT (MPH) | PER | LANE WIDTH | ⊣ "W" | NUMBER OF | SPEED LIMIT | SPACING (FEET) |
| ` | | 10 1 | | 11 | 12 | CHANNELIZERS | |
| 2 | 5 | 105 | 115 | 125 | 6 | () | (== , |
| 3 | 0 | 150 | 165 | 180 | 7 | 25 | 100 |
| 3 | 5 | 205 | 225 | 245 | 8 | 30-35 | 250 |
| 4 | 0 | 270 | 295 | 320 | 9 | •• 40 | 350 |
| 4 | 5 | 450 | 495 | 540 | 13 | <u> </u> | |

GENERAL NOTES:

ROAD CLOSED

TO

THRU TRAFFIC

R11-4 60" x 30"

J 4

ALL CENTER TURN LANE SIGNS (MUTCD NO. R3-9B) SHALL BE COVERED DURING

(MIN.)

• H

R3-9b LANE CLOSURE

4" - 6"

(TYP.)

(MIN.)

DRUM

ALL SIGNS, BARRICADES, CHANNELIZERS, MARKINGS AND OTHER TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) ALL TRAFFIC CONTROL DEVICES SHALL BE STANDARD IN SIZE, SHAPE, COLOR, AND MESSAGE, IN GOOD

CONDITION, AND RETRO-REFLECTORIZED. ALL SIGNS SHALL BE SECURELY MOUNTED WITH HEIGHT AND LATERAL LOCATION AS DESCRIBED IN THE MUTCD.

ACCESS SHALL BE MAINTAINED TO ALL DRIVEWAYS AND SIDE STREETS UNLESS NOTED OTHERWISE ON THE PLANS.

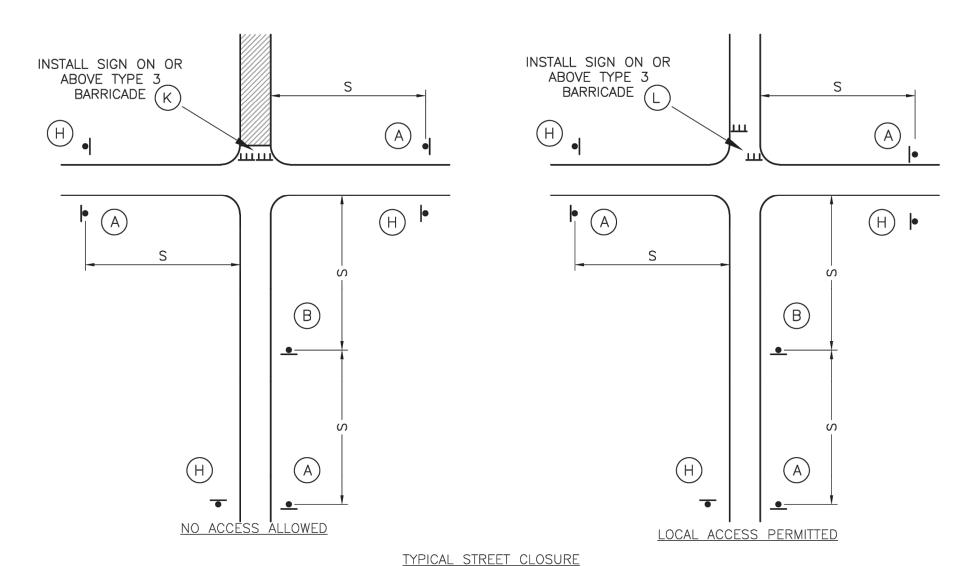
NO STREET SHALL BE CLOSED WITHOUT THE APPROVAL OF THE CITY TRAFFIC ENGINEER. THE CONTRACTOR SHALL NOTIFY THE CITY TRAFFIC ENGINEER AT LEAST 7 DAYS IN ADVANCE OF ANY STREET CLOSURE. IF A DETOUR ROUTE AROUND THE CLOSURE IS TO BE PROVIDED, ALL DETOUR SIGNING SHALL BE AS SHOWN ON A PLAN APPROVED BY THE CITY TRAFFIC ENGINEER.

10. CONSTRUCTION VEHICLES PARKED ALONG STREETS SHALL BE LOCATED WITHIN THE WORK AREA (TRAFFIC

12. THE CONTRACTOR SHALL NOT PERFORM ANY WORK THAT WILL RESTRICT VEHICULAR TRAFFIC IN ANY WAY

ALL TRAVEL LANES SHOULD BE AT LEAST 11 FEET WIDE UNLESS OTHERWISE AUTHORIZED BY THE CITY

SHOULD THE CONTRACTOR FAIL TO ENFORCE THE TRAFFIC CONTROL PLAN OR FAIL TO CLEAN, REPLACE OR OTHERWISE MAINTAIN THE TRAFFIC CONTROL DEVICES WHEN DIRECTED TO DO SO BY THE CITY TRAFFIC ENGINEER OR REPRESENTATIVE, THE CITY MAY TAKE ONE OR MORE OF THE FOLLOWING ACTIONS: A. EMPLOY ANOTHER AGENCY TO CORRECT DEFICIENCIES IN TRAFFIC CONTROL DEVICES AND DEDUCT THE



Drawn By: BWC Checked By: MP Date: 01/2020 roj. #:

TC-1

RE DETAILS MIT, MO

POLE AND LUMINAIRE DE CITY OF LEE'S SUMMIT, E'S SUMMIT, JACKSON COL

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DETAILS

CONTROL