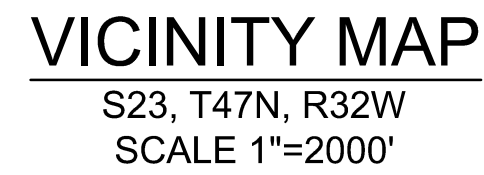


SECTION 23, TOWNSHIP 47 N, RANGE 32 W  
IN LEE'S SUMMIT, JACKSON COUNTY, MISSOURI  
DISTURBED AREA = 23.75 AC



☐ NOT FOR CONSTRUCTION

☒ REVIEWED FOR CONSTRUCTION



(AS PROVIDED BY CHICAGO TITLE INSURANCE COMPANY, NOVEMBER 1, 2018)

ALL THAT PART OF THE SOUTHEAST QUARTER OF SECTION 23, TOWNSHIP 47, RANGE 32, IN THE CITY OF LEE'S SUMMIT, JACKSON COUNTY, MISSOURI, BEING BOUNDED AND DESCRIBED AS FOLLOWS: BEGINNING AT THE NORTHWEST CORNER OF SAID SOUTHEAST QUARTER; THENCE SOUTH 89 DEGREES 45 MINUTES 34 SECONDS EAST, ALONG THE NORTH LINE OF SAID SOUTHEAST QUARTER, 2613.19 FEET TO ITS INTERSECTION WITH THE WEST RIGHT-OF-WAY LINE OF PRYOR ROAD AS NOW ESTABLISHED; THENCE SOUTH 02 DEGREES 45 MINUTES 31 SECONDS WEST, ALONG SAID WEST RIGHT-OF-WAY LINE, 2520.50 FEET; THENCE SOUTH 47 DEGREES 23 MINUTES 30 SECONDS WEST, ALONG SAID WEST RIGHT-OF-WAY LINE, 135.21 FEET TO ITS INTERSECTION WITH THE NORTH RIGHT-OF-WAY LINE OF HOOK ROAD, AS NOW ESTABLISHED; THENCE NORTH 87 DEGREES 58 MINUTES 31 SECONDS WEST, ALONG SAID NORTH RIGHT-OF-WAY LINE, 2264.70 FEET; THENCE NORTH 02 DEGREES 43 MINUTES 25 SECONDS EAST, ALONG SAID NORTH RIGHT-OF-WAY LINE, 10.00 FEET; THENCE NORTH 87 DEGREES 58 MINUTES 31 SECONDS WEST, ALONG SAID NORTH RIGHT-OF-WAY LINE, 252.00 FEET TO A POINT ON THE WEST LINE OF SAID SOUTHEAST QUARTER; THENCE NORTH 02 DEGREES 43 MINUTES 25 SECONDS EAST ALONG SAID WEST LINE, 2615.22 FEET TO THE POINT OF BEGINNING.



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:

PORIONS OF THE SITE ARE LOCATED WITHIN ZONE AE "BASE FLOOD ELEVATIONS DETERMINED", ZONE X (SHADED) "AREAS OF 0.2% 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 1% ANNUAL CHANCE FLOOD, AND ZONE X (UNSHADED) " AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN AS DEPICTED ON THE FEMA FLOOD INSURANCE RATE MAP (FIRM) MAP NUMBER 290905C0531G, REVISION DATE JANUARY 20, 2017.

REVIEWED BY:

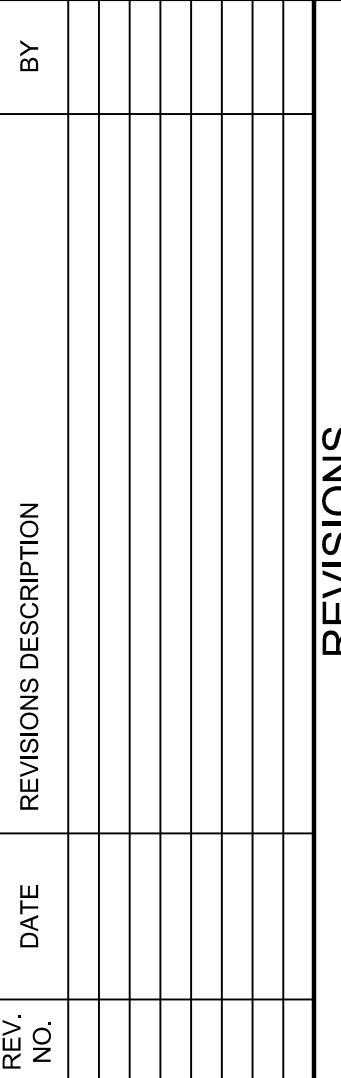
CITY OF LEE'S SUMMIT

DATE \_\_\_\_\_

*Julie E. Sellers*  
 JULIE E. SELLERS, P.E.  
 CIVIL ENGINEER  
 MO# PE-2017000367

4/20/2020  
DATE

Missouri Certificate of Authority #001592  
1301 Burlington Street  
North Kansas City, MO 64116



TITLE SHEET  
SITE DISTURBANCE PLANS

**HOOKE FARMS**  
**FIRST PLAT**

LEE'S SUMMIT, MO

drawn by: \_\_\_\_\_ CGW  
checked by: \_\_\_\_\_ JES  
approved by: \_\_\_\_\_ NDH  
QA/QC by: \_\_\_\_\_ JES  
project no.: \_\_\_\_\_ 019-4061  
drawing no.: \_\_\_\_\_  
date: \_\_\_\_\_ 04/20/2020

SHEET  
C501



DWG: F:\2019\4001-4500\019-4061\40-Design\AutoCAD\Final Plans\Sheets\GNCV\Site Disturbance Plans\C\_TTL01\_0194061.dwg  
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XREFS: C\_PTBULK\_0194061\_34x22  
C\_PBNDY\_0194061  
USER: nheiser

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:
- \_\_\_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.

| ESTIMATE OF QUANTITIES |                       |      |          |          |
|------------------------|-----------------------|------|----------|----------|
| ITEM NO.               | DESCRIPTION           | UNIT | QUANTITY | AS-BUILT |
| PRIVATE GRADING        |                       |      |          |          |
| 1                      | EXCAVATION            | C.Y. | 39,039   |          |
| 2                      | EMBANKMENT            | C.Y. | 57,214   |          |
|                        |                       |      |          |          |
| PUBLIC GRADING         |                       |      |          |          |
| 3                      | EXCAVATION            | C.Y. | 5,854    |          |
| 4                      | EMBANKMENT            | C.Y. | 15,100   |          |
|                        |                       |      |          |          |
| SITE DISTURBANCE       |                       |      |          |          |
| 5                      | CONSTRUCTION ENTRANCE | EA.  | 1        |          |
| 6                      | CONCRETE WASHOUT      | EA.  | 1        |          |
| 7                      | CURB INLET PROTECTION | EA.  | 22       |          |
| 8                      | AREA INLET PROTECTION | EA.  | 5        |          |
| 9                      | SILT FENCE            | L.F. | 1,998    |          |
| 10                     | DIVERSION BERM        | L.F. | 4,337    |          |
| 11                     | ROCK DITCH CHECK      | EA.  | 7        |          |
| 12                     | SEDIMENT TRAP         | EA.  | 2        |          |
| 13                     | SEDIMENT BASIN        | EA.  | 1        |          |
| 14                     | DISTURBED AREA        | AC.  | 23.75    |          |
| 15                     | PERMANENT SEEDING     | AC.  | 21.06    |          |
|                        |                       |      |          |          |

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.

olsson

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1301 Burlington Street  
North Kansas City MO 64116  
TEL 816.361.1177  
FAX 816.361.1888  
www.olsson.com

STATE OF MISSOURI  
JULIE ELAINE  
SELLERS  
NUMBER  
PE-2017000367  
4/20/2020  
PROFESSIONAL ENGINEER

BY

REVISIONS DESCRIPTION

DATE

REV. NO.

2020

LEE'S SUMMIT, MO

GENERAL NOTES  
SITE DISTURBANCE PLANS



HOOK FARMS  
FIRST PLAT

drawn by: CGW  
checked by: JES  
approved by: NDH  
QA/QC by: JES  
project no.: 019-4061  
drawing no.:  
date: 04/20/2020

SHEET  
C502





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|--|--|--|-----------------------|------------------|-----------|
| drawn by: _____ CGW<br>checked by: _____ JES<br>approved by: _____ NDH<br>QA/QC by: _____ JES<br>project no.: _____ 019-4061<br>drawing no.: _____<br>date: _____ 04/20/2020 |  | GENERAL LAYOUT<br>SITE DISTURBANCE PLANS   |                       | 2020             |           |
|  |  | HOOK FARMS<br>FIRST PLAT   |                       | LEE'S SUMMIT, MO |           |
| REV. NO.   |  | DATE   | REVISIONS DESCRIPTION | BY               | REVISIONS |
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|  |  | Olsson - Civil Engineering<br>Missouri Certificate of Authority #001592<br>1301 Burlington Street<br>North Kansas City, MO 64116<br>TEL 816.361.1177<br>FAX 816.361.1888<br>www.olsson.com |                       |                  |           |



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USER: nheiser

GENERAL NOTES:

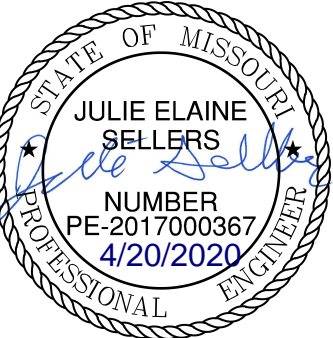
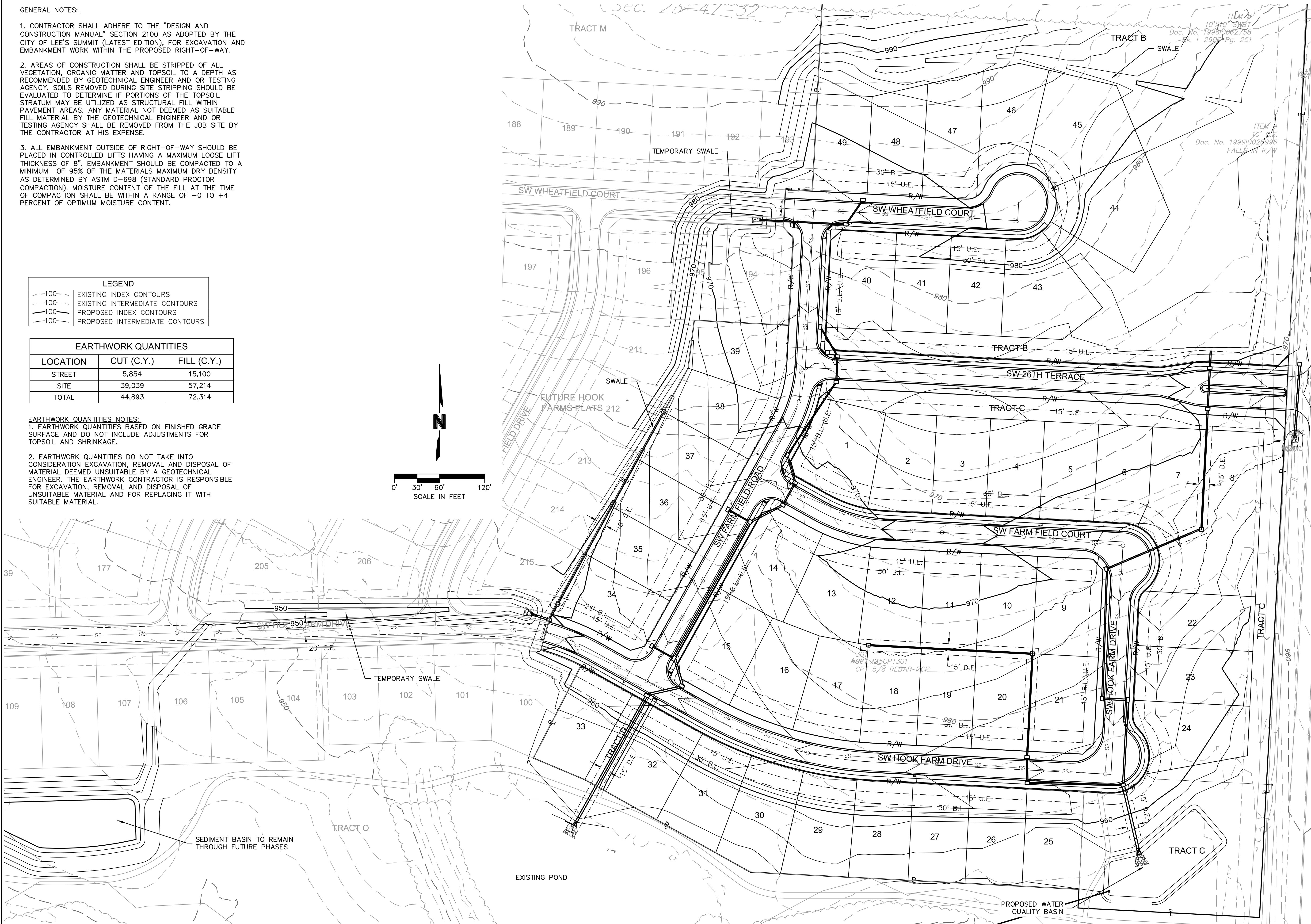
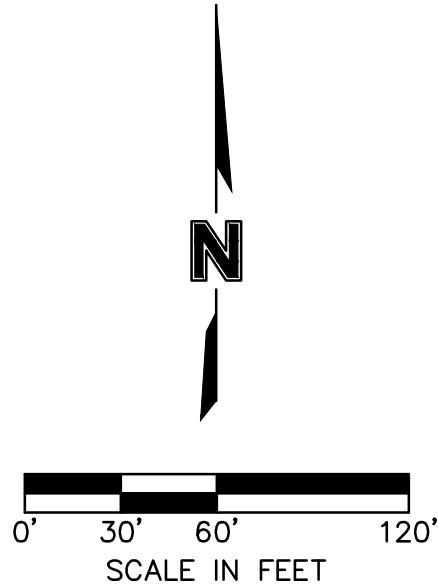
1. CONTRACTOR SHALL ADHERE TO THE "DESIGN AND CONSTRUCTION MANUAL" SECTION 2100 AS ADOPTED BY THE CITY OF LEE'S SUMMIT (LATEST EDITION), FOR EXCAVATION AND EMBANKMENT WORK WITHIN THE PROPOSED RIGHT-OF-WAY.
2. AREAS OF CONSTRUCTION SHALL BE STRIPPED OF ALL VEGETATION, ORGANIC MATTER AND TOPSOIL TO A DEPTH AS RECOMMENDED BY GEOTECHNICAL ENGINEER AND OR TESTING AGENCY. SOILS REMOVED DURING 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.

| LEGEND |                                |
|--------|--------------------------------|
| -100-  | EXISTING INDEX CONTOURS        |
| -100   | EXISTING INTERMEDIATE CONTOURS |
| 100    | PROPOSED INDEX CONTOURS        |
| 100    | PROPOSED INTERMEDIATE CONTOURS |

| EARTHWORK QUANTITIES |            |             |
|----------------------|------------|-------------|
| LOCATION             | CUT (C.Y.) | FILL (C.Y.) |
| STREET               | 5,854      | 15,100      |
| SITE                 | 39,039     | 57,214      |
| TOTAL                | 44,893     | 72,314      |

EARTHWORK QUANTITIES NOTES:

1. EARTHWORK QUANTITIES BASED ON FINISHED GRADE SURFACE AND DO NOT INCLUDE ADJUSTMENTS FOR TOPSOIL AND SHRINKAGE.
2. EARTHWORK QUANTITIES DO NOT TAKE INTO CONSIDERATION EXCAVATION, 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.



| BY |  | REVISIONS DESCRIPTION | DATE | REV. NO. |
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| GRADING PLAN<br>SITE DISTURBANCE PLANS |  | 2020 |
|--|--|------|
| HOOK FARMS<br>FIRST PLAT               |  |      |
| LEE'S SUMMIT, MO                       |  |      |



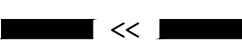
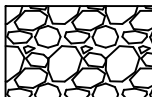

drawn by: CGW  
checked by: JES  
approved by: NDH  
QA/QC by: JES  
project no.: 019-4061  
drawing no.:  
date: 04/20/2020

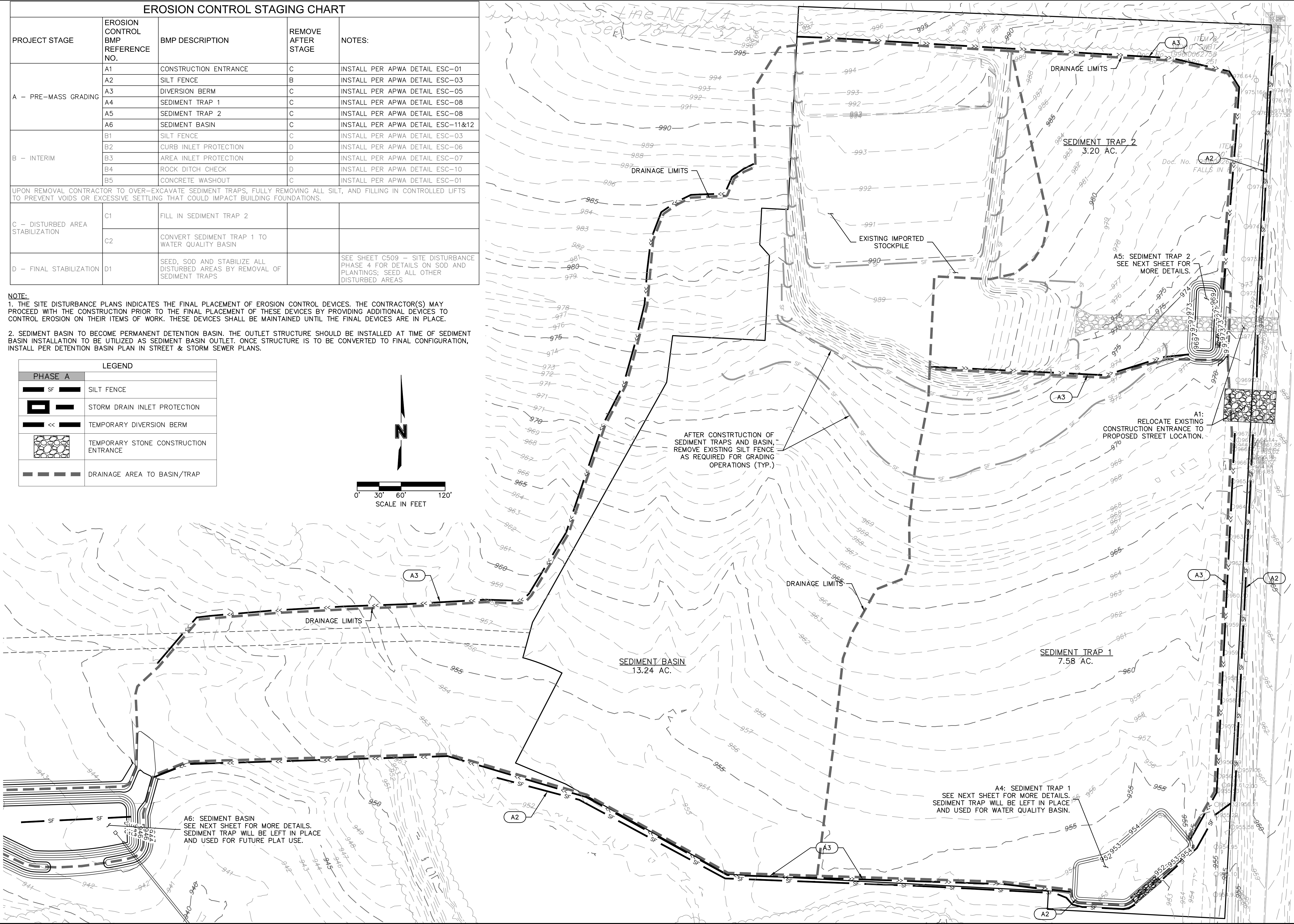
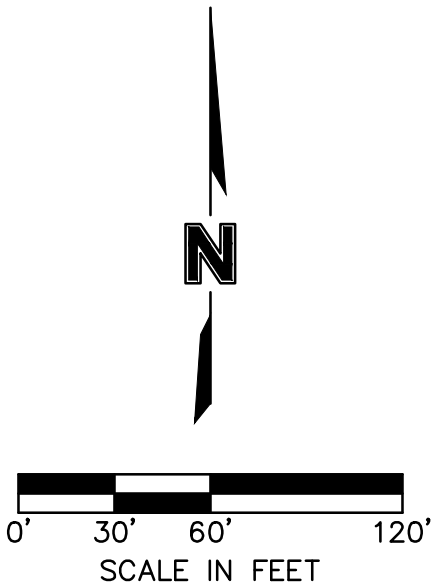


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| EROSION CONTROL STAGING CHART  |                                   |  |                    |  |
|--|-----------------------------------|--|--------------------|--|
| PROJECT STAGE  | EROSION CONTROL BMP REFERENCE NO. | BMP DESCRIPTION  | REMOVE AFTER STAGE | NOTES:   |
| A - PRE-MASS GRADING   | A1                                | CONSTRUCTION ENTRANCE  | C                  | INSTALL PER APWA DETAIL ESC-01   |
|  | A2                                | SILT FENCE   | B                  | INSTALL PER APWA DETAIL ESC-03   |
|  | A3                                | DIVERSION BERM   | C                  | INSTALL PER APWA DETAIL ESC-05   |
|  | A4                                | SEDIMENT TRAP 1  | C                  | INSTALL PER APWA DETAIL ESC-08   |
|  | A5                                | SEDIMENT TRAP 2  | C                  | INSTALL PER APWA DETAIL ESC-08   |
|  | A6                                | SEDIMENT BASIN   | C                  | INSTALL PER APWA DETAIL ESC-11&12  |
| B - INTERIM  | B1                                | SILT FENCE   | C                  | INSTALL PER APWA DETAIL ESC-03   |
|  | B2                                | CURB INLET PROTECTION  | D                  | INSTALL PER APWA DETAIL ESC-06   |
|  | B3                                | AREA INLET PROTECTION  | D                  | INSTALL PER APWA DETAIL ESC-07   |
|  | B4                                | ROCK DITCH CHECK   | D                  | INSTALL PER APWA DETAIL ESC-10   |
|  | B5                                | CONCRETE WASHOUT   | C                  | INSTALL PER APWA DETAIL ESC-01   |
| UPON REMOVAL CONTRACTOR TO OVER-EXCAVATE SEDIMENT TRAPS, FULLY REMOVING ALL SILT, AND FILLING IN CONTROLLED LIFTS TO PREVENT VOIDS OR EXCESSIVE SETTLING THAT COULD IMPACT BUILDING FOUNDATIONS. |                                   |  |                    |  |
| C - DISTURBED AREA STABILIZATION   | C1                                | FILL IN SEDIMENT TRAP 2  |                    |  |
|  | C2                                | CONVERT SEDIMENT TRAP 1 TO WATER QUALITY BASIN                           |                    |  |
| D - FINAL STABILIZATION  | D1                                | SEED, SOD AND STABILIZE ALL DISTURBED AREAS BY REMOVAL OF SEDIMENT TRAPS |                    | SEE SHEET C509 - SITE DISTURBANCE PHASE 4 FOR DETAILS ON SOD AND PLANTINGS; SEED ALL OTHER DISTURBED AREAS |

NOTE:  
1. THE SITE DISTURBANCE PLANS INDICATES THE FINAL PLACEMENT OF EROSION CONTROL DEVICES. THE CONTRACTOR(S) MAY PROCEED WITH THE CONSTRUCTION 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.  
2. SEDIMENT BASIN TO BECOME PERMANENT DETENTION BASIN. THE OUTLET STRUCTURE SHOULD BE INSTALLED AT TIME OF SEDIMENT BASIN INSTALLATION TO BE UTILIZED AS SEDIMENT BASIN OUTLET. ONCE STRUCTURE IS TO BE CONVERTED TO FINAL CONFIGURATION, INSTALL PER DETENTION BASIN PLAN IN STREET & STORM SEWER PLANS.

| LEGEND  |                                       |
|---|---------------------------------------|
| PHASE A   |                                       |
|    | SILT FENCE                            |
|    | STORM DRAIN INLET PROTECTION          |
|    | TEMPORARY DIVERSION BERM              |
|    | TEMPORARY STONE CONSTRUCTION ENTRANCE |
|  | DRAINAGE AREA TO BASIN/TRAP           |



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STATE OF MISSOURI  
JULIE ELAINE SELLERS  
Professional Engineer  
NUMBER PE-2017000367  
4/20/2020

BY

REVISIONS DESCRIPTION

DATE

REV. NO.

SITE DISTURBANCE PHASE 1  
SITE DISTURBANCE PLANS

HOOK FARMS  
FIRST PLAT

2020

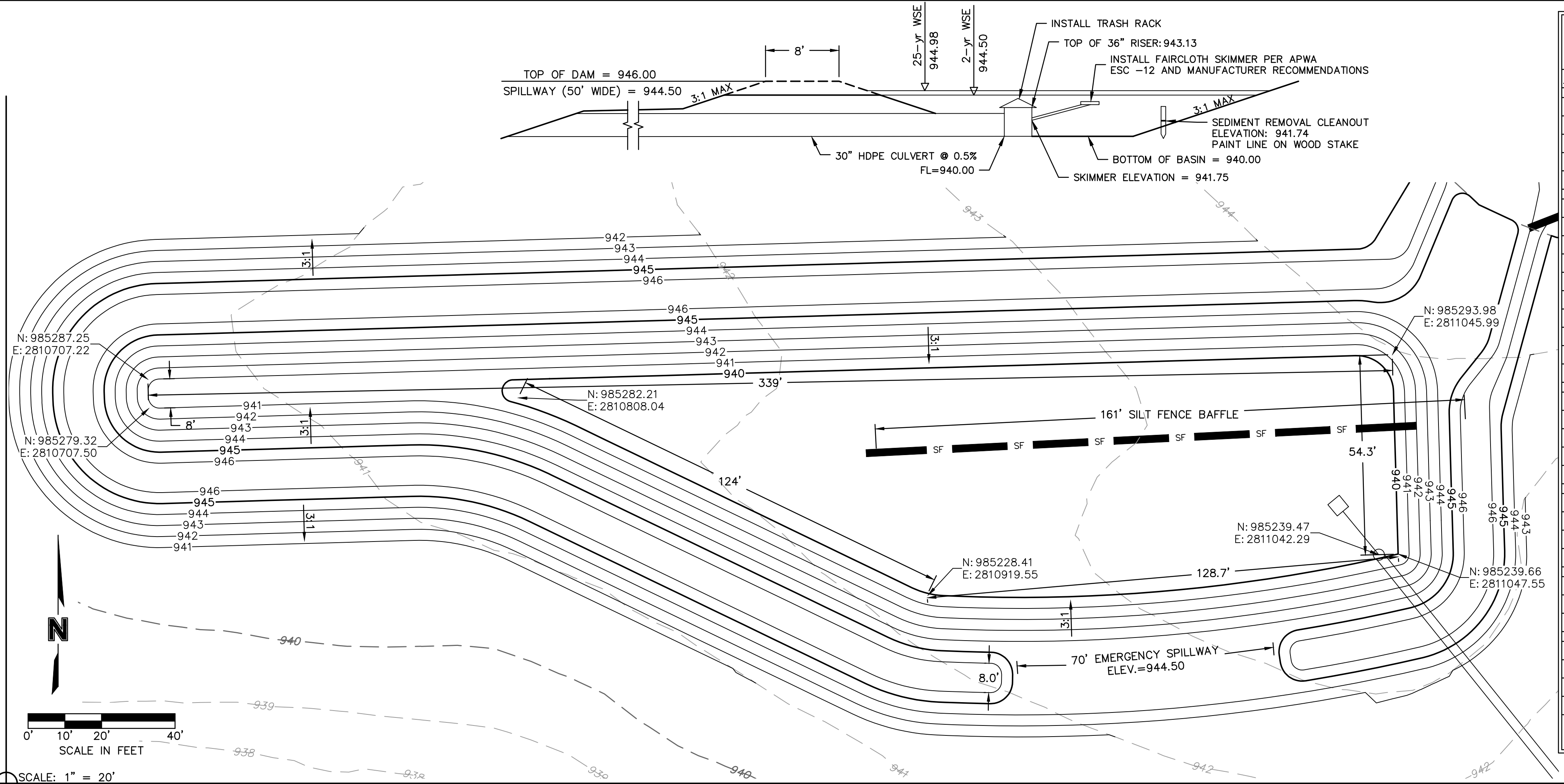
REVISIONS

drawn by: CGW  
checked by: JES  
approved by: NDH  
QA/QC by: JES  
project no.: 019-4061  
drawing no.:  
date: 04/20/2020

SHEET  
C505



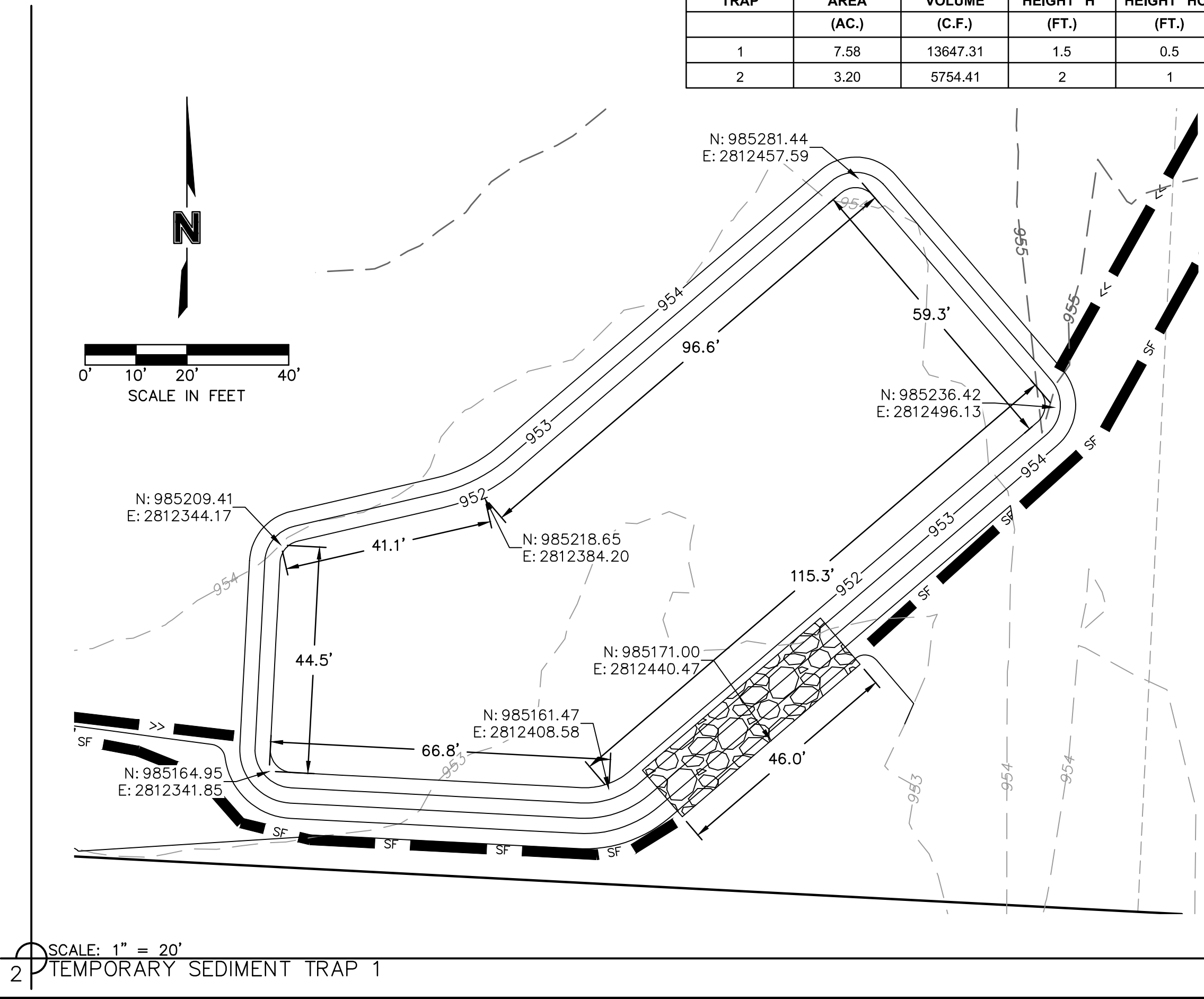
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USER: nheiser



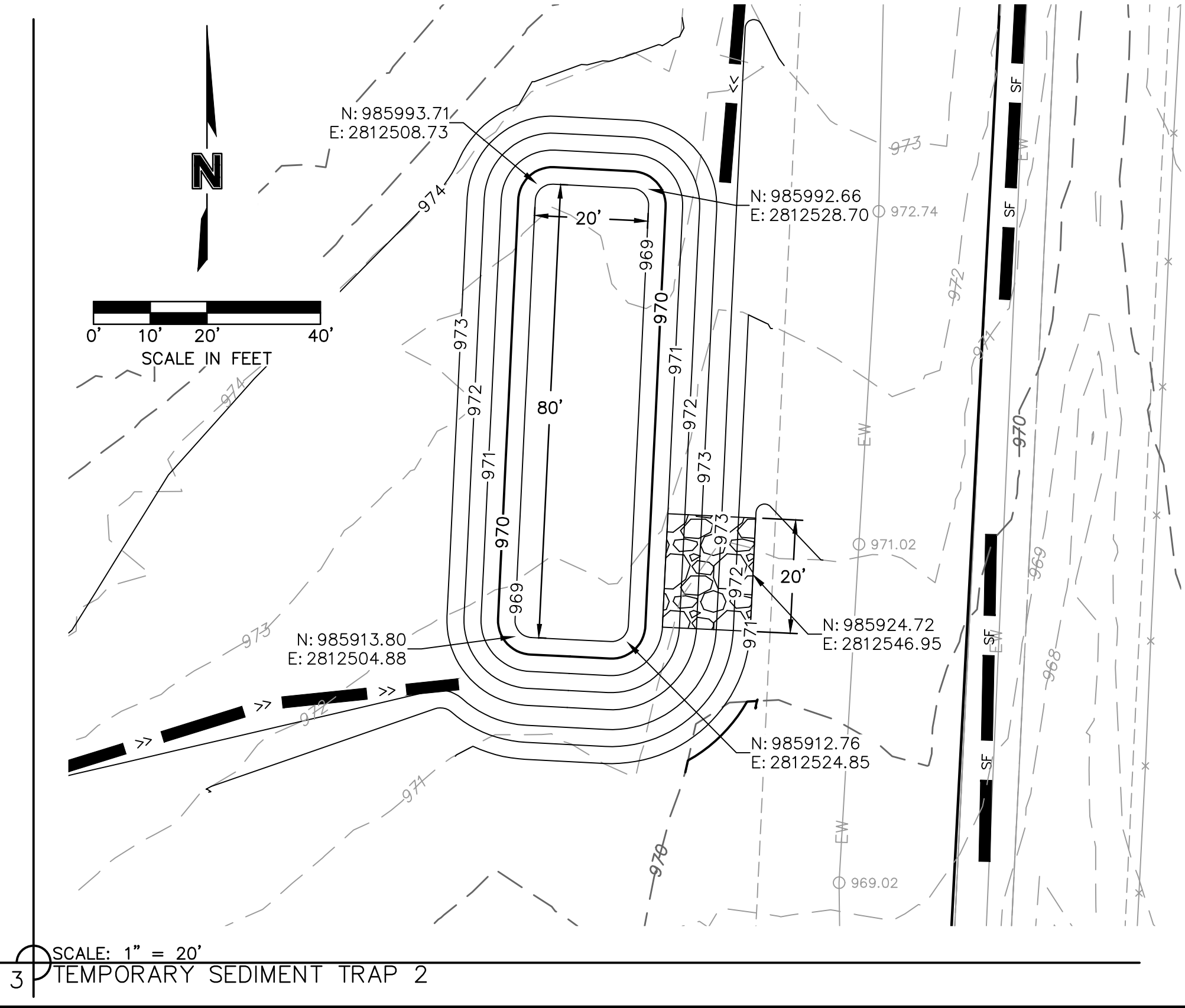
| SEDIMENT BASIN DESIGN DATA SUMMARY             |             |         |   |
|--|-------------|---------|---|
| TITLE: HOOK FARMS FIRST PLAT                   |             |         |   |
| JOB #: 019-4061                                |             |         |   |
| Design Item:                                   | Basin #1    | Units   | Notes:  |
| <b>Site Data:</b>                              |             |         |   |
| Tributary Drainage Area to Pond:               | 13.24       | Acres   |   |
| Disturbed Tributary Drainage Area to Pond:     | 13.24       | Acres   |   |
| 50% (2 yr) Design Flow:                        | 34.49       | cfs     |   |
| 4% (25 yr) Design Flow:                        | 61.27       | cfs     |   |
| <b>Pond Data:</b>                              |             |         |   |
| Minimum Sediment Storage Volume:               | 1775        | cu. yd. | 134 cy/acre minimum   |
| Provided Sediment Storage Volume:              | 1775        | cu. yd. | 134 cy/acre minimum   |
| Bottom Elevation:                              | 940.00      | Ft      |   |
| Sediment Cleanout Elevation:                   | 941.74      | Ft      | Elevation Equal to 50% of Original Design Volume.             |
| Sediment Cleanout Volume                       | 888.00      | cu. yd. |   |
| Top of Riser Elevation:                        | 943.13      | Ft      | Top of Dry Storage Volume                                     |
| Emergency Spillway Elevation:                  | 944.50      | Ft      | at or Above Q-2 elev. 1.0 ft min above principal spillway     |
| Q-25 year Elevation:                           | 944.98      | Ft      |   |
| Top of Dam Elevation:                          | 946.00      | Ft      | 1.0 ft min above Q-25 elev.                                   |
| <b>Basin Shape Data:</b>                       |             |         |   |
| A= Area at Normal Pool                         | 18936.33    | SF      |   |
| L = Length of Flow Path                        | 30.00       | Ft      |   |
| We = Effective Width = A/L                     | 631.21      | Ft      |   |
| Length to Width Ratio = L/We                   | 0.05        |         | If Length to Width Ratio is less than 2, baffles are required |
| <b>Principal Spillway Data:</b>                |             |         |   |
| Riser Pipe Diameter or Length x Width:         | 36          | in      | 15-inch min. Size for 2 year flow minimum                     |
| Barrell Pipe Diameter:                         | 30          | in      | 15-inch min. Size for 2 year flow minimum                     |
| Riser Pipe Base Size:                          | 0.92        | cu. yd. | Size to Prevent Flotation. 1.25 safety factor required.       |
| **Skimmer Size:                                | 3.00        | in      | Skimmer sized to dewater in 48 to 72 hours                    |
| **Orifice Diameter (if reduced from standard): |             | in      | **Based on ASP Enterprises Faircloth Skimmer Design Guide     |
| Skimmer Elevation                              | 941.75      | Ft      | Flowline of skimmer at riser                                  |
| <b>Emergency Spillway Data:</b>                |             |         |   |
| Design Width of Spillway:                      | 70.00       | Ft      |   |
| Design Flow Depth in Spillway:                 | 0.48        | Ft      |   |
| Design Velocity in Spillway:                   | 1.82        | Ft/sec  |   |
| Lining Material:                               | Rip Rap- 6" | N/A     |   |

1 TEMPORARY SEDIMENT BASIN 1

| 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.) | SPILLWAY LENGTH (FT.) | EXCAVATED DEPTH (FT.) | EXCAVATED VOLUME (C.F.) | SEDIMENT CLEANOUT VOLUME (C.F.) | SEDIMENT CLEANOUT ELEVATION (FT.) |
|------|----------------------|------------------------|-----------------------|----------------------------|-----------------------|--------------------------|-----------------------|-----------------------|-------------------------|---------------------------------|-----------------------------------|
| 1    | 7.58                 | 13647.31               | 1.5                   | 0.5                        | 14154.86              | 2                        | 46                    | 1                     | 9011.31                 | 2830.97                         | 951.81                            |
| 2    | 3.20                 | 5754.41                | 2                     | 1                          | 7652.52               | 2                        | 20                    | 2                     | 2532.12                 | 1530.50                         | 969.81                            |



2 TEMPORARY SEDIMENT TRAP 1



3 TEMPORARY SEDIMENT TRAP 2

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STATE OF MISSOURI  
JULIE ELAINE  
SELLERS  
Professional Engineer  
NUMBER  
PE-2017000367  
4/20/2020

BY

REVISIONS

SITE DISTURBANCE PHASE 1 DETAILS  
SITE DISTURBANCE PLANS  
HOOK FARMS  
FIRST PLAT  
LEE'S SUMMIT, MO

2020

drawn by: CGW  
checked by: JES  
approved by: NDH  
QA/QC by: JES  
project no.: 019-4061  
drawing no.:  
date: 04/20/2020






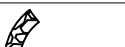
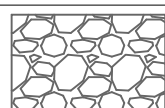

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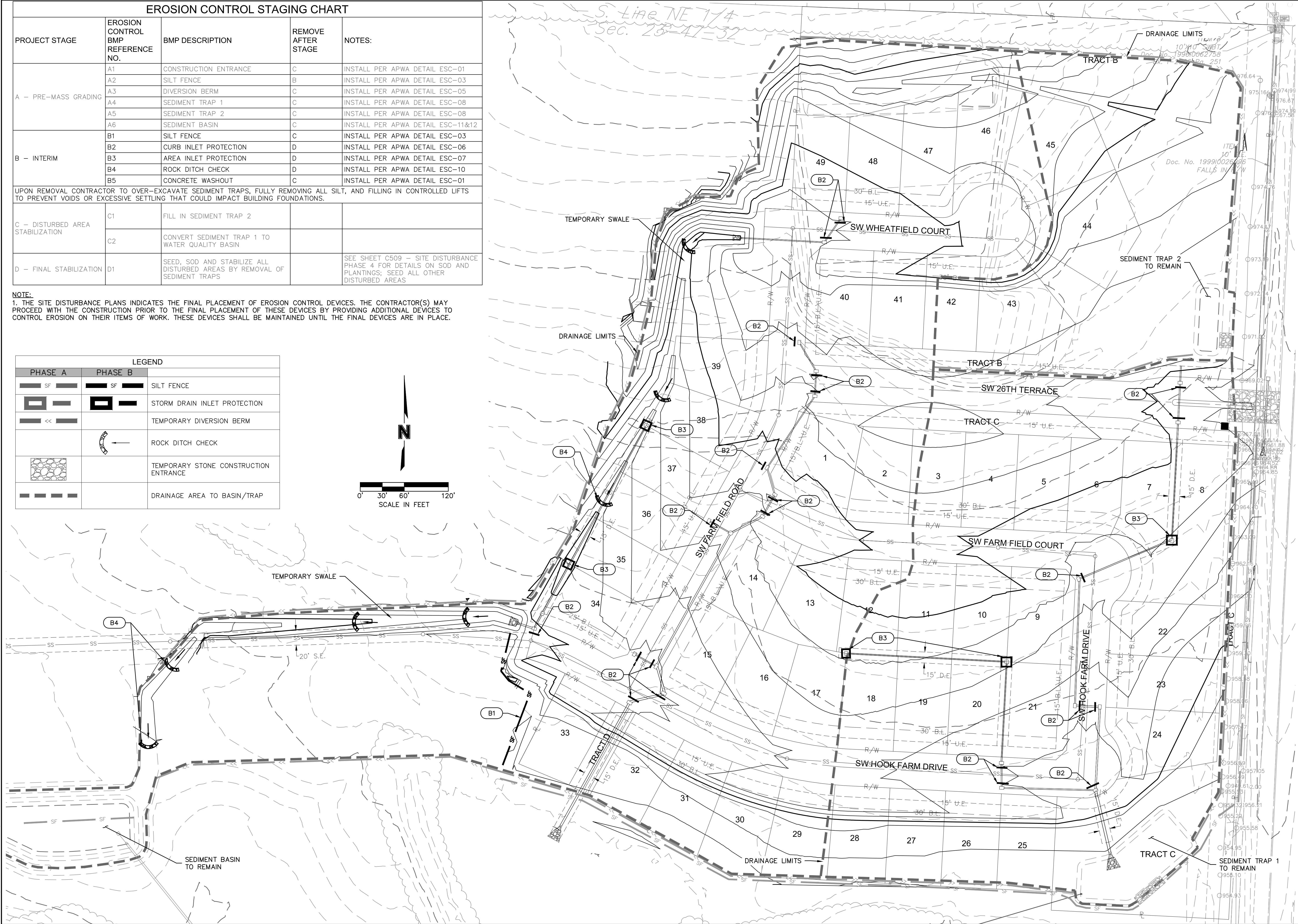
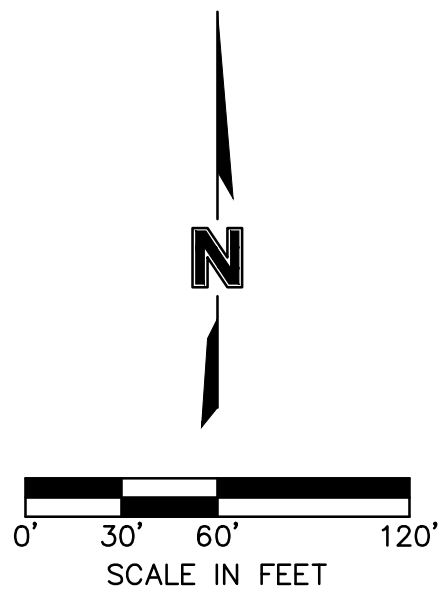


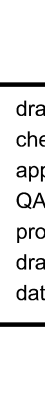
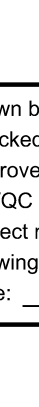
| EROSION CONTROL STAGING CHART  |                                   |  |                    |  |
|--|-----------------------------------|--|--------------------|--|
| PROJECT STAGE  | EROSION CONTROL BMP REFERENCE NO. | BMP DESCRIPTION  | REMOVE AFTER STAGE | NOTES:   |
| A – PRE-MASS GRADING   | A1                                | CONSTRUCTION ENTRANCE  | C                  | INSTALL PER APWA DETAIL ESC-01   |
|  | A2                                | SILT FENCE   | B                  | INSTALL PER APWA DETAIL ESC-03   |
|  | A3                                | DIVERSION BERM   | C                  | INSTALL PER APWA DETAIL ESC-05   |
|  | A4                                | SEDIMENT TRAP 1  | C                  | INSTALL PER APWA DETAIL ESC-08   |
|  | A5                                | SEDIMENT TRAP 2  | C                  | INSTALL PER APWA DETAIL ESC-08   |
|  | A6                                | SEDIMENT BASIN   | C                  | INSTALL PER APWA DETAIL ESC-11&12  |
| B – INTERIM  | B1                                | SILT FENCE   | C                  | INSTALL PER APWA DETAIL ESC-03   |
|  | B2                                | CURB INLET PROTECTION  | D                  | INSTALL PER APWA DETAIL ESC-06   |
|  | B3                                | AREA INLET PROTECTION  | D                  | INSTALL PER APWA DETAIL ESC-07   |
|  | B4                                | ROCK DITCH CHECK   | D                  | INSTALL PER APWA DETAIL ESC-10   |
|  | B5                                | CONCRETE WASHOUT   | C                  | INSTALL PER APWA DETAIL ESC-01   |
| UPON REMOVAL CONTRACTOR TO OVER-EXCAVATE SEDIMENT TRAPS, FULLY REMOVING ALL SILT, AND FILLING IN CONTROLLED LIFTS TO PREVENT VOIDS OR EXCESSIVE SETTLING THAT COULD IMPACT BUILDING FOUNDATIONS. |                                   |  |                    |  |
| C – DISTURBED AREA STABILIZATION   | C1                                | FILL IN SEDIMENT TRAP 2  |                    |  |
|  | C2                                | CONVERT SEDIMENT TRAP 1 TO WATER QUALITY BASIN                           |                    |  |
| D – FINAL STABILIZATION  | D1                                | SEED, SOD AND STABILIZE ALL DISTURBED AREAS BY REMOVAL OF SEDIMENT TRAPS |                    | SEE SHEET C509 – SITE DISTURBANCE PHASE 4 FOR DETAILS ON SOD AND PLANTINGS; SEED ALL OTHER DISTURBED AREAS |

NOTE:

1. THE SITE DISTURBANCE PLANS INDICATES THE FINAL PLACEMENT OF EROSION CONTROL DEVICES. THE CONTRACTOR(S) MAY PROCEED WITH THE CONSTRUCTION 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.

| LEGEND  |   |                                       |
|---|---|---------------------------------------|
| PHASE A   | PHASE B   |                                       |
|    |  | SILT FENCE                            |
|    |  | STORM DRAIN INLET PROTECTION          |
|    |   | TEMPORARY DIVERSION BERM              |
|   |  | ROCK DITCH CHECK                      |
|   |   | TEMPORARY STONE CONSTRUCTION ENTRANCE |
|  |   | DRAINAGE AREA TO BASIN/TRAP           |








|   |  |  |  |  |  |   |  |      |  |                       |  |    |  |
|---|--|--|--|--|--|---|--|------|--|-----------------------|--|----|--|
| <div style="text-align: right;">  </div> |  |  |  |  |  | <div style="text-align: left;"> <p><b>olsson</b></p> <p>Olsson - Civil Engineering<br/>Missouri Certificate of Authority #001592<br/>1301 Burlington Street<br/>North Kansas City, MO 64116<br/>TEL 816.361.1177<br/>FAX 816.361.1888<br/><a href="http://www.olsson.com">www.olsson.com</a></p> </div> |  |      |  |                       |  |    |  |
|    |  |  |  |  |  |   |  |      |  |                       |  |    |  |
| SITE DISTURBANCE PHASE 2<br>SITE DISTURBANCE PLANS  |  |  |  |  |  | REV.  |  | DATE |  | REVISIONS DESCRIPTION |  | BY |  |
|   |  |  |  |  |  | NO.   |  |      |  |                       |  |    |  |
| HOOK FARMS<br>FIRST PLAT  |  |  |  |  |  |   |  |      |  |                       |  |    |  |
|   |  |  |  |  |  |   |  |      |  |                       |  |    |  |
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|   |  |  |  |  |  |   |  |      |  |                       |  |    |  |
| LEE'S SUMMIT, MO  |  |  |  |  |  |   |  |      |  | REVISIONS             |  |    |  |
|   |  |  |  |  |  | 2020  |  |      |  |                       |  |    |  |
| drawn by: _____ CGW   |  |  |  |  |  |   |  |      |  |                       |  |    |  |
| checked by: _____ JES   |  |  |  |  |  |   |  |      |  |                       |  |    |  |
| approved by: _____ NDH  |  |  |  |  |  |   |  |      |  |                       |  |    |  |
| QA/QC by: _____ JES   |  |  |  |  |  |   |  |      |  |                       |  |    |  |
| project no.: _____ 019-4061   |  |  |  |  |  |   |  |      |  |                       |  |    |  |
| drawing no.: _____  |  |  |  |  |  |   |  |      |  |                       |  |    |  |
| date: _____ 04/20/2020  |  |  |  |  |  |   |  |      |  |                       |  |    |  |
| SHEET   |  |  |  |  |  |   |  |      |  |                       |  |    |  |
| C507  |  |  |  |  |  |   |  |      |  |                       |  |    |  |

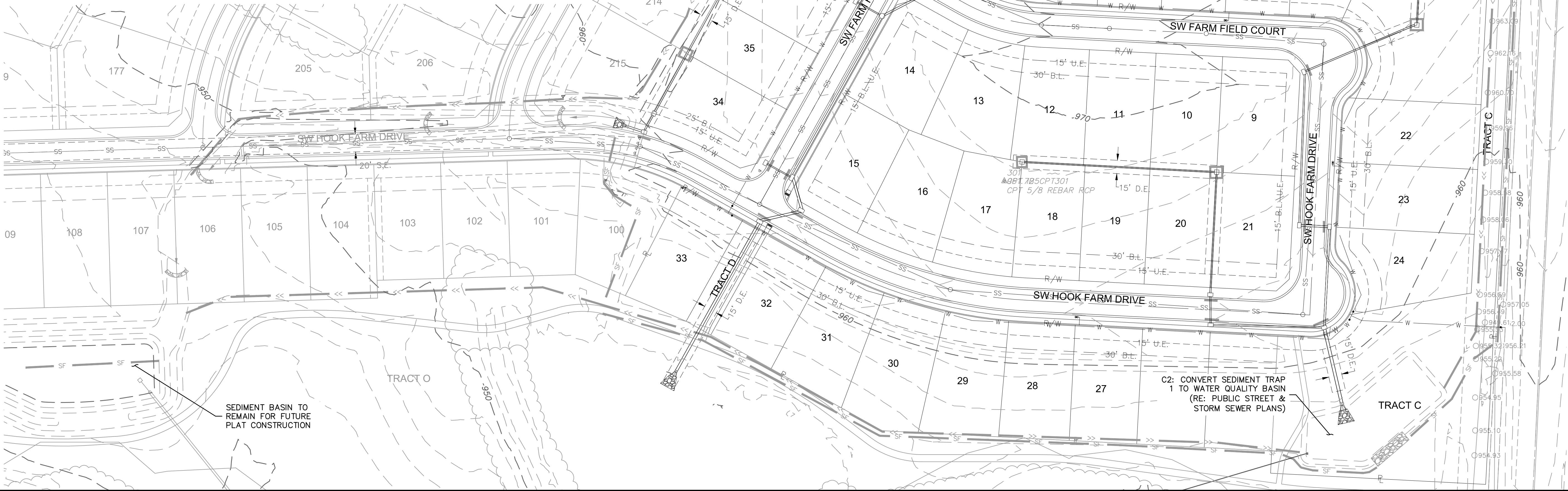
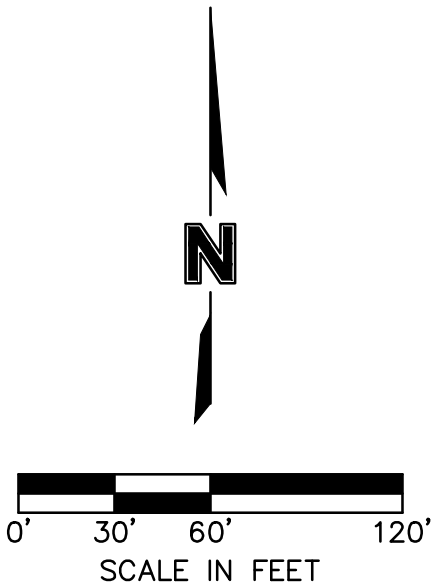


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| EROSION CONTROL STAGING CHART  |                                   |  |                    |  |
|--|-----------------------------------|--|--------------------|--|
| PROJECT STAGE  | EROSION CONTROL BMP REFERENCE NO. | BMP DESCRIPTION  | REMOVE AFTER STAGE | NOTES:   |
| A – PRE-MASS GRADING   | A1                                | CONSTRUCTION ENTRANCE  | C                  | INSTALL PER APWA DETAIL ESC-01   |
|  | A2                                | SILT FENCE   | B                  | INSTALL PER APWA DETAIL ESC-03   |
|  | A3                                | DIVERSION BERM   | C                  | INSTALL PER APWA DETAIL ESC-05   |
|  | A4                                | SEDIMENT TRAP 1  | C                  | INSTALL PER APWA DETAIL ESC-08   |
|  | A5                                | SEDIMENT TRAP 2  | C                  | INSTALL PER APWA DETAIL ESC-08   |
|  | A6                                | SEDIMENT BASIN   | C                  | INSTALL PER APWA DETAIL ESC-11&12  |
| B – INTERIM  | B1                                | SILT FENCE   | C                  | INSTALL PER APWA DETAIL ESC-03   |
|  | B2                                | CURB INLET PROTECTION  | D                  | INSTALL PER APWA DETAIL ESC-06   |
|  | B3                                | AREA INLET PROTECTION  | D                  | INSTALL PER APWA DETAIL ESC-07   |
|  | B4                                | ROCK DITCH CHECK   | D                  | INSTALL PER APWA DETAIL ESC-10   |
|  | B5                                | CONCRETE WASHOUT   | C                  | INSTALL PER APWA DETAIL ESC-01   |
| UPON REMOVAL CONTRACTOR TO OVER-EXCAVATE SEDIMENT TRAPS, FULLY REMOVING ALL SILT, AND FILLING IN CONTROLLED LIFTS TO PREVENT VOIDS OR EXCESSIVE SETTLING THAT COULD IMPACT BUILDING FOUNDATIONS. |                                   |  |                    |  |
| C – DISTURBED AREA STABILIZATION   | C1                                | FILL IN SEDIMENT TRAP 2  |                    |  |
|  | C2                                | CONVERT SEDIMENT TRAP 1 TO WATER QUALITY BASIN                           |                    |  |
| D – FINAL STABILIZATION  | D1                                | SEED, SOD AND STABILIZE ALL DISTURBED AREAS BY REMOVAL OF SEDIMENT TRAPS |                    | SEE SHEET C509 – SITE DISTURBANCE PHASE 4 FOR DETAILS ON SOD AND PLANTINGS; SEED ALL OTHER DISTURBED AREAS |

NOTE:  
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| LEGEND   |         |                                       |
|--|---------|---------------------------------------|
| PHASE B  | PHASE C |                                       |
|   |         | SILT FENCE                            |
|   |         | STORM DRAIN INLET PROTECTION          |
|   |         | TEMPORARY DIVERSION BERM              |
|   |         | ROCK DITCH CHECK                      |
|  |         | TEMPORARY STONE CONSTRUCTION ENTRANCE |



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JULIE ELAINE SELLERS  
Professional Engineer  
NUMBER PE-2017000367  
4/20/2020

BY

REVISIONS DESCRIPTION

DATE

REV. NO.

SITE DISTURBANCE PHASE 3  
SITE DISTURBANCE PLANS

HOOK FARMS  
FIRST PLAT

2020

drawn by: CGW  
checked by: JES  
approved by: NDH  
QA/QC by: JES  
project no.: 019-4061  
drawing no.:  
date: 04/20/2020

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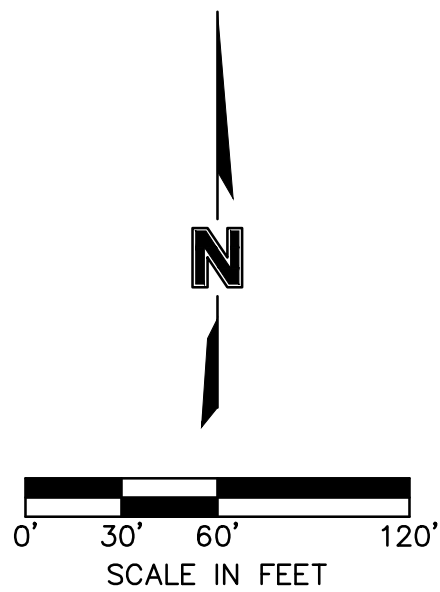


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| EROSION CONTROL STAGING CHART  |                                   |  |                    |  |
|--|-----------------------------------|--|--------------------|--|
| PROJECT STAGE  | EROSION CONTROL BMP REFERENCE NO. | BMP DESCRIPTION  | REMOVE AFTER STAGE | NOTES:   |
| A – PRE-MASS GRADING   | A1                                | CONSTRUCTION ENTRANCE  | C                  | INSTALL PER APWA DETAIL ESC-01   |
|  | A2                                | SILT FENCE   | B                  | INSTALL PER APWA DETAIL ESC-03   |
|  | A3                                | DIVERSION BERM   | C                  | INSTALL PER APWA DETAIL ESC-05   |
|  | A4                                | SEDIMENT TRAP 1  | C                  | INSTALL PER APWA DETAIL ESC-08   |
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|  | A6                                | SEDIMENT BASIN   | C                  | INSTALL PER APWA DETAIL ESC-11&12  |
| B – INTERIM  | B1                                | SILT FENCE   | C                  | INSTALL PER APWA DETAIL ESC-03   |
|  | B2                                | CURB INLET PROTECTION  | D                  | INSTALL PER APWA DETAIL ESC-06   |
|  | B3                                | AREA INLET PROTECTION  | D                  | INSTALL PER APWA DETAIL ESC-07   |
|  | B4                                | ROCK DITCH CHECK   | D                  | INSTALL PER APWA DETAIL ESC-10   |
|  | B5                                | CONCRETE WASHOUT   | C                  | INSTALL PER APWA DETAIL ESC-01   |
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| C – DISTURBED AREA STABILIZATION   | C1                                | FILL IN SEDIMENT TRAP 2  |                    |  |
|  | C2                                | CONVERT SEDIMENT TRAP 1 TO WATER QUALITY BASIN                           |                    |  |
| D – FINAL STABILIZATION  | D1                                | SEED, SOD AND STABILIZE ALL DISTURBED AREAS BY REMOVAL OF SEDIMENT TRAPS |                    | SEE SHEET C509 – SITE DISTURBANCE PHASE 4 FOR DETAILS ON SOD AND PLANTINGS; SEED ALL OTHER DISTURBED AREAS |

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| LEGEND  |                         |
|---------|-------------------------|
| PHASE D |                         |
|         | SEEDING & STABILIZATION |



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JULIE ELAINE SELLERS  
Professional Engineer  
NUMBER PE-2017000367  
4/20/2020

BY

REVISIONS DESCRIPTION

DATE

REV. NO.

SITE DISTURBANCE PHASE 4  
SITE DISTURBANCE PLANS

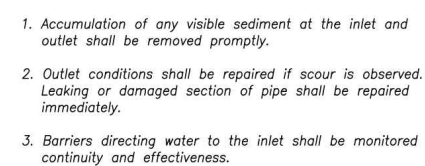
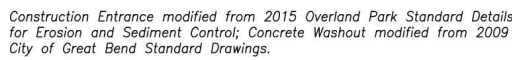
HOOK FARMS  
FIRST PLAT

2020

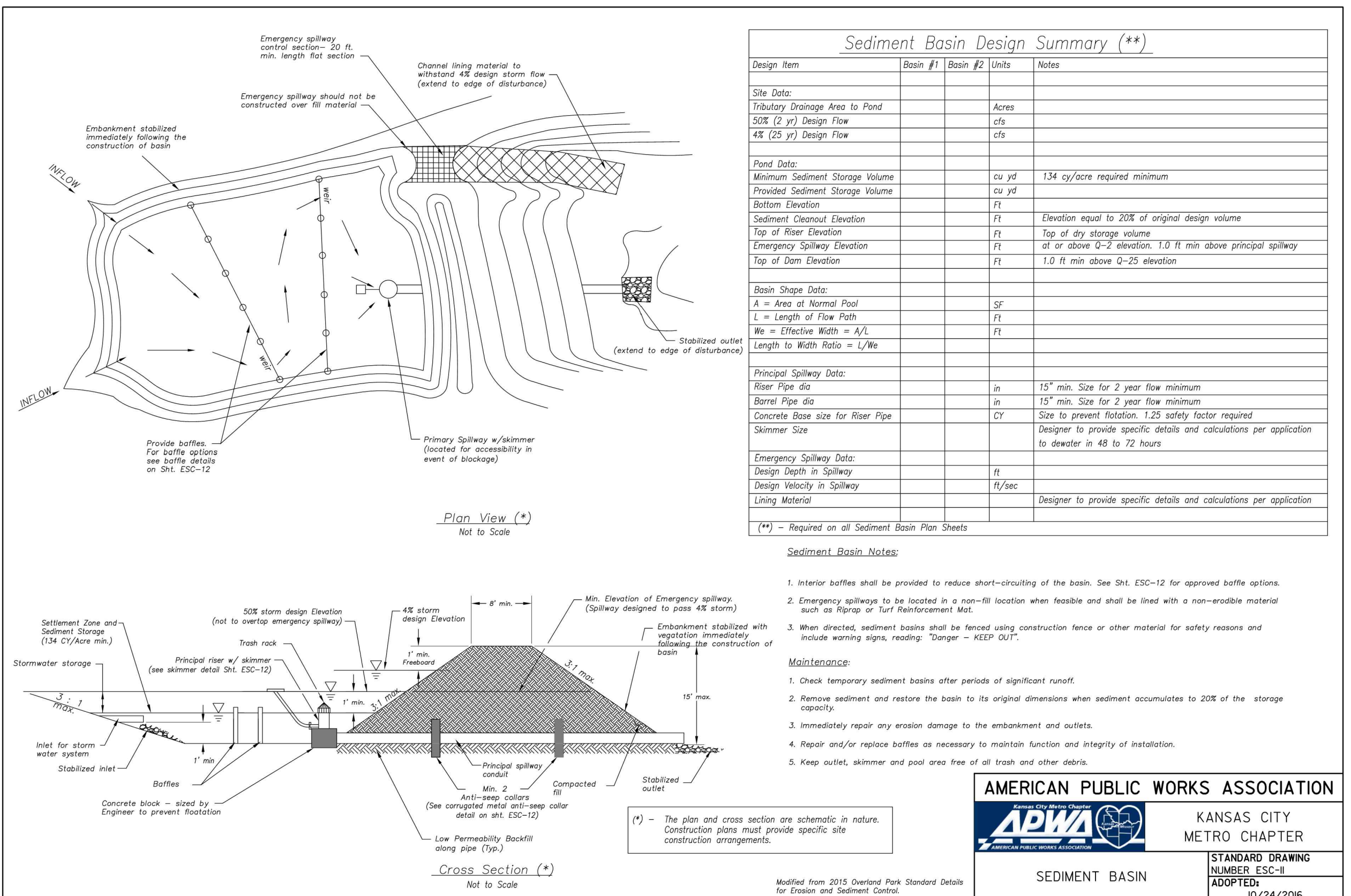
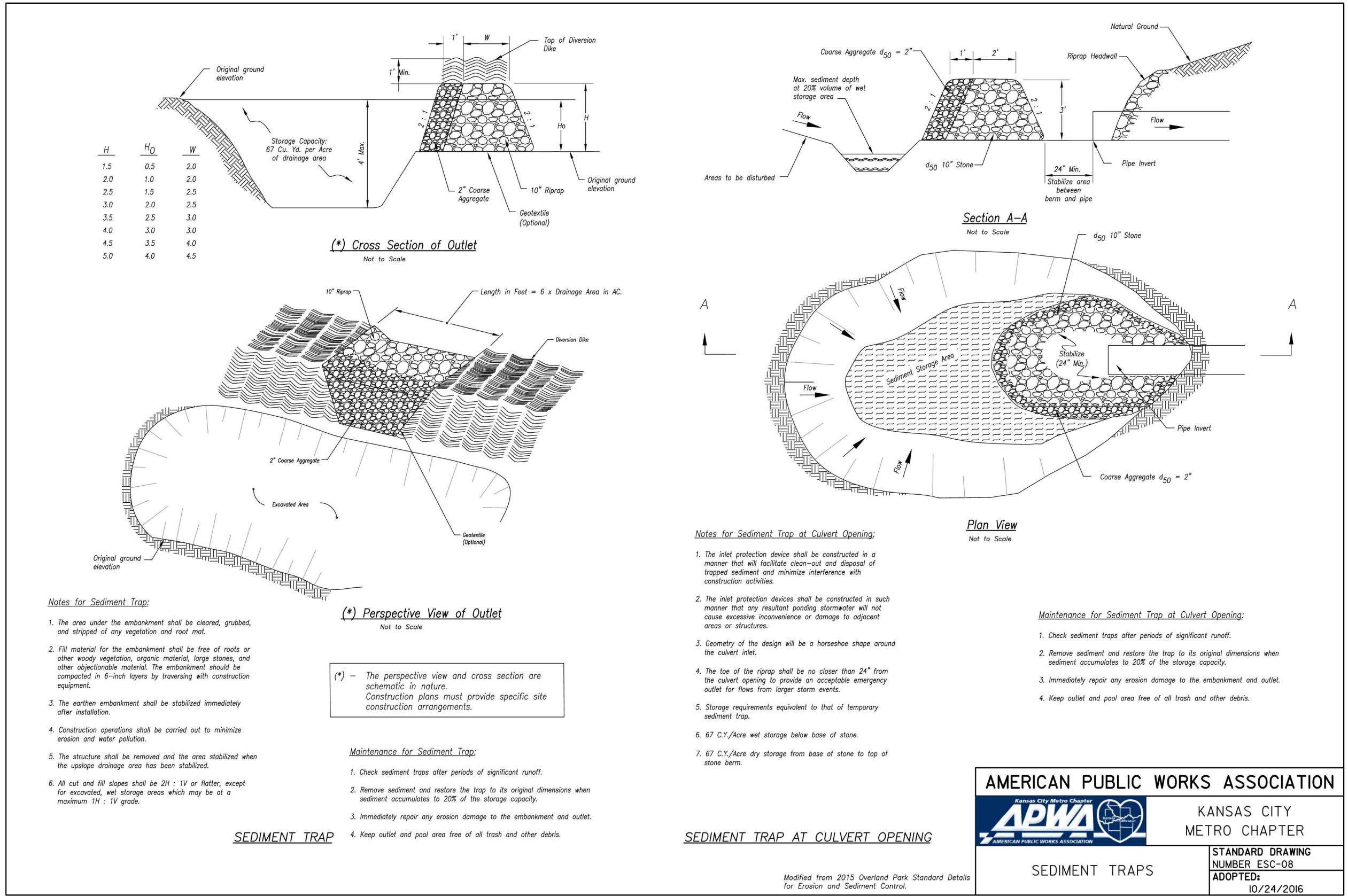
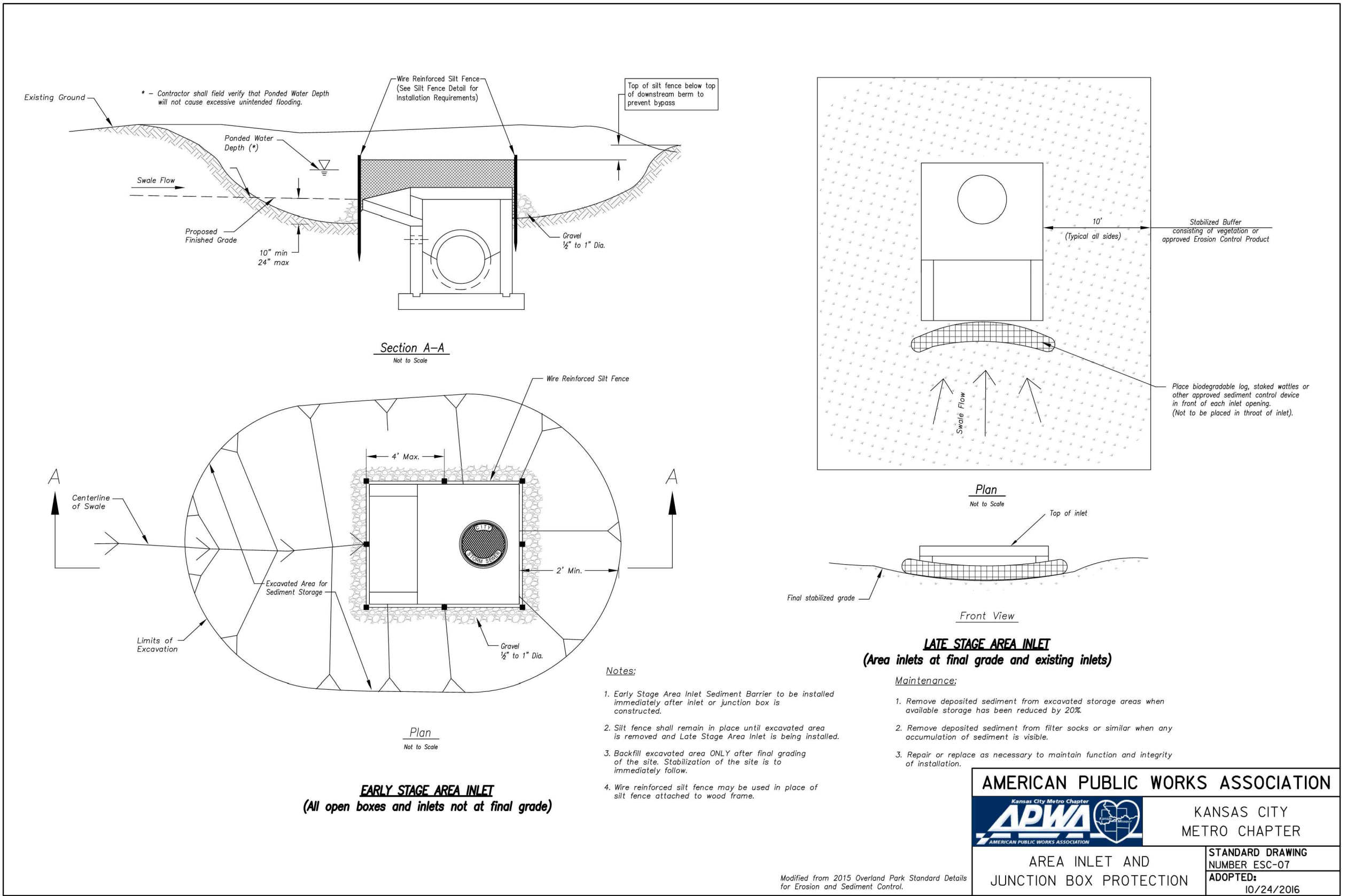
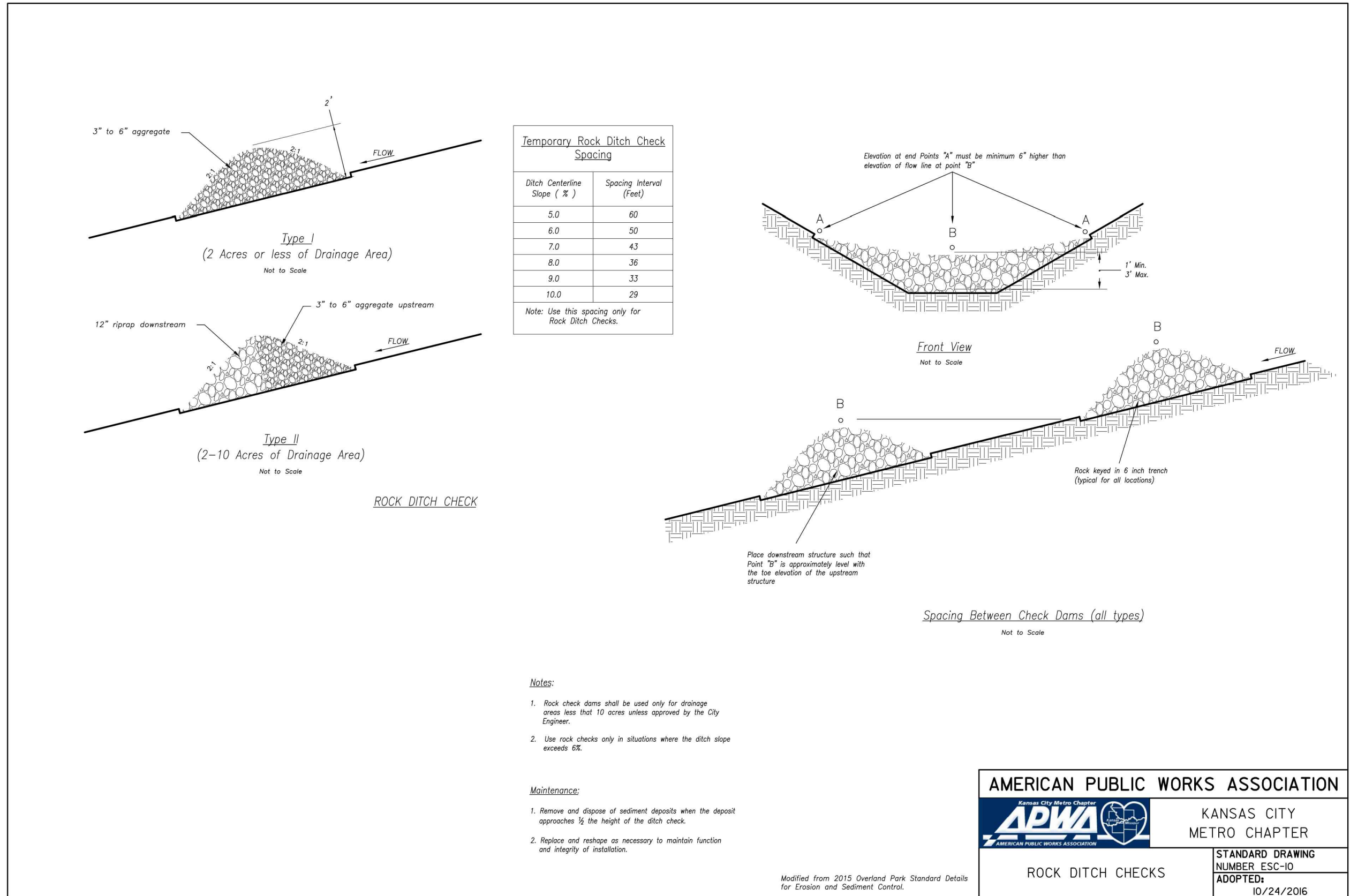
drawn by: CGW  
checked by: JES  
approved by: NDH  
QA/QC by: JES  
project no.: 019-4061  
drawing no.:  
date: 04/20/2020

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DETAIL SHEET  
SITE DISTURBANCE PLANS

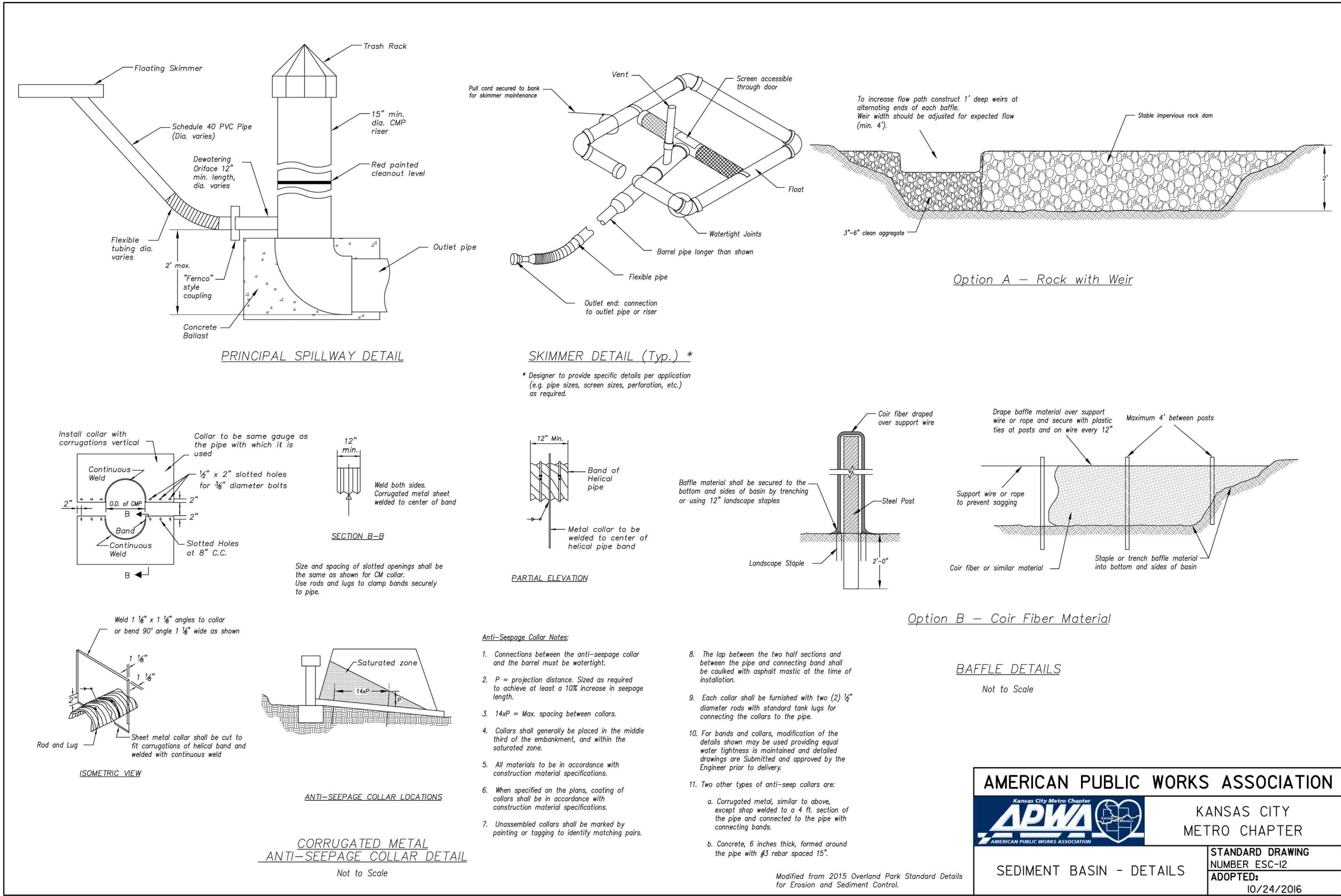
HOOK FARMS  
FIRST PLAT

LEE'S SUMMIT, MO

drawn by: CGW  
checked by: JES  
approved by: NDH  
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date: 04/20/2020

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BY

REVISIONS DESCRIPTION

DATE

REV. NO.

DETAIL SHEET  
SITE DISTURBANCE PLANS

HOOK FARMS  
FIRST PLAT

LEE'S SUMMIT, MO

2020

drawn by: CGW  
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project no.: 019-4061  
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SHEET  
C512

REVISIONS