

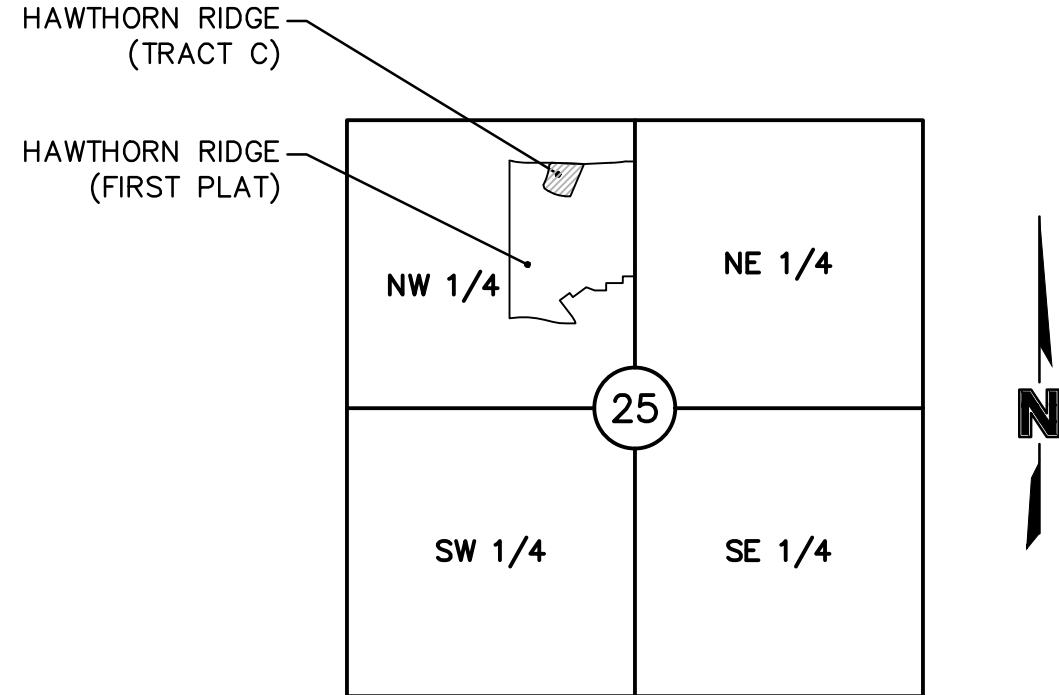
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- ☐ NOT FOR CONSTRUCTION
- ☒ REVIEWED FOR CONSTRUCTION

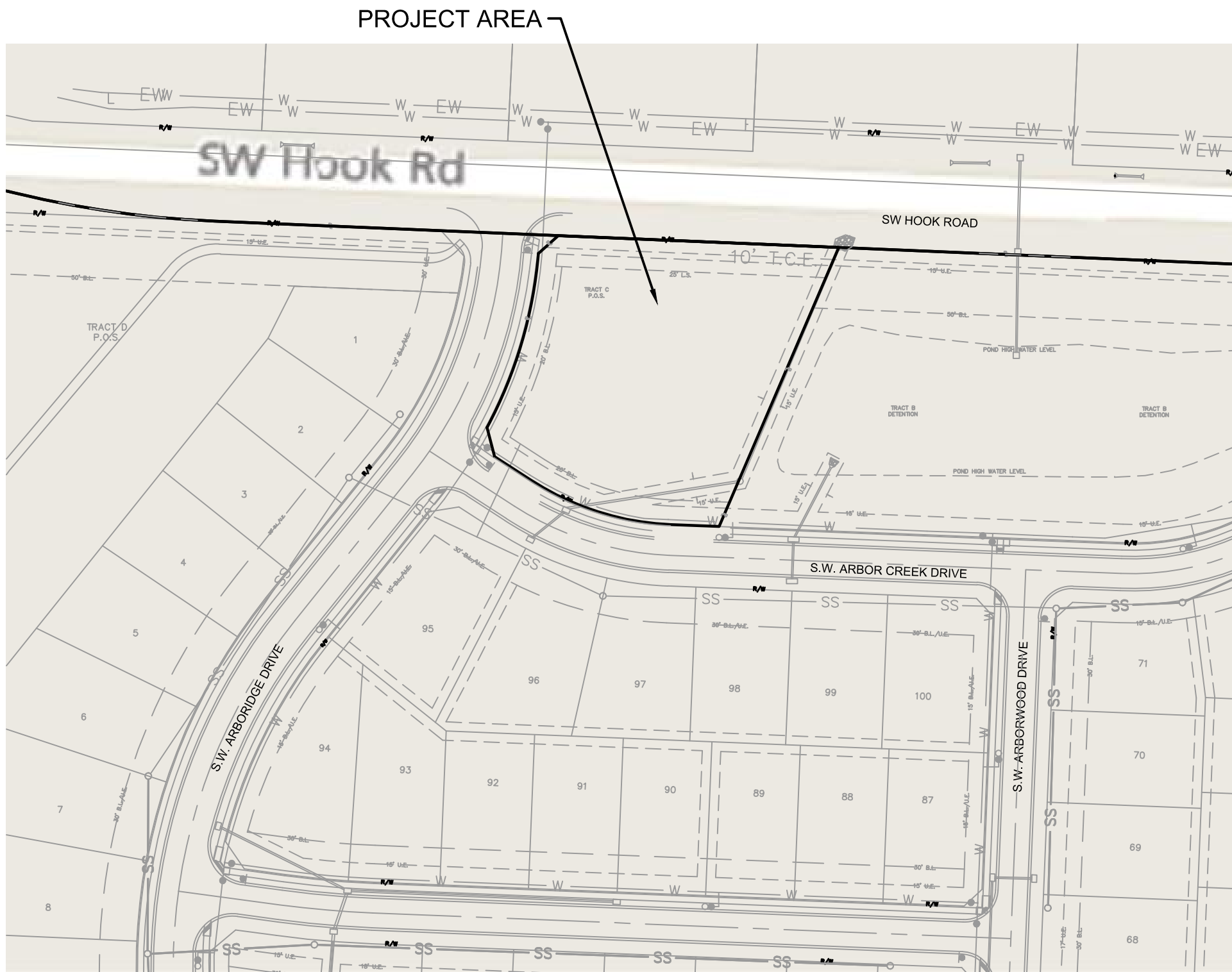
PROJECT TEAM & UTILITY CONTACT LIST	
OWNER / DEVELOPER CLAYTON PROPERTIES GROUPS, INC. DBA SUMMIT HOMES 120 SE 30TH STREET, CONTACT: VINCENT WALKER PHONE: 816.246.6700 EMAIL: VINCENT@SUMMITHOMESKC.COM	UTILITY SERVICE NUMBERS NAME: LEE'S SUMMIT PUBLIC WORKS PHONE: 816-969-1800 NAME: LEE'S SUMMIT WATER & SEWER DEPARTMENT PHONE: 816-969-1940
ENGINEER OLSSON 1301 BURLINGTON, SUITE 100 NORTH KANSAS CITY, MO 64116 CONTACT: JULIE E SELLERS, P.E. PHONE: 816.361.1177 EMAIL: JSSELLERS@OLSSON.COM	NAME: SPIRE (MGE) PHONE: 816-756-5252 NAME: AT&T PHONE: 800-286-8313 NAME: KCP&L PHONE: 816-471-5275
	NAME: SPECTRUM (TWC) PHONE: 816-358-5350 NAME: GOOGLE FIBER PHONE: 877-454-6959

VICINITY MAP
S 25, T 47 N, R 32 W
SCALE 1"=2000'



HAWTHORN RIDGE 1534 SW HOOK ROAD FINAL DEVELOPMENT PLANS

SECTION S 25, TOWNSHIP 47 N, RANGE 32 W
IN LEE'S SUMMIT, JACKSON COUNTY, MISSOURI



INDEX OF SHEETS

Sheet Title	Sheet Number
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ARCHITECTURAL FLOOR PLAN	A100
ARCHITECTURAL ROOF PLAN	A101
ARCHITECTURAL ELEVATIONS	A200-A201
EXTERIOR LIGHTING PLAN	E-L1

ACCEPTED:

CITY OF LEE'S SUMMIT.

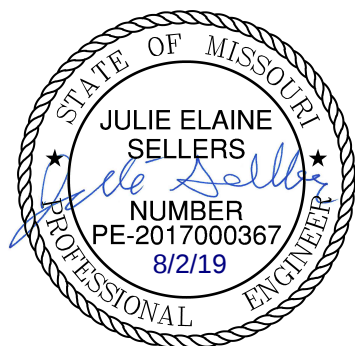
DATE

CIVIL ENGINEER:
I HEREBY CERTIFY THAT THIS PROJECT HAS BEEN DESIGNED, AND THESE
PLANS PREPARED, TO MEET OR EXCEED THE DESIGN CRITERIA OF LEE'S
SUMMIT, MISSOURI, IN CURRENT USAGE, EXCEPT AS INDICATED BELOW.

JULIE SELLERS, P.E.
CIVIL ENGINEER
MO# 2017000367

8/2/19

DATE



JULIE SELLERS, P.E.
MO# 2017000367

REVISIONS DESCRIPTION

REVISED PER CITY COMMENTS

NO. DATE

REV. 1 2019.07.28

TITLE SHEET
FINAL DEVELOPMENT PLANS

HAWTHORN RIDGE
1534 SW HOOK ROAD

LEE'S SUMMIT, MISSOURI

2019

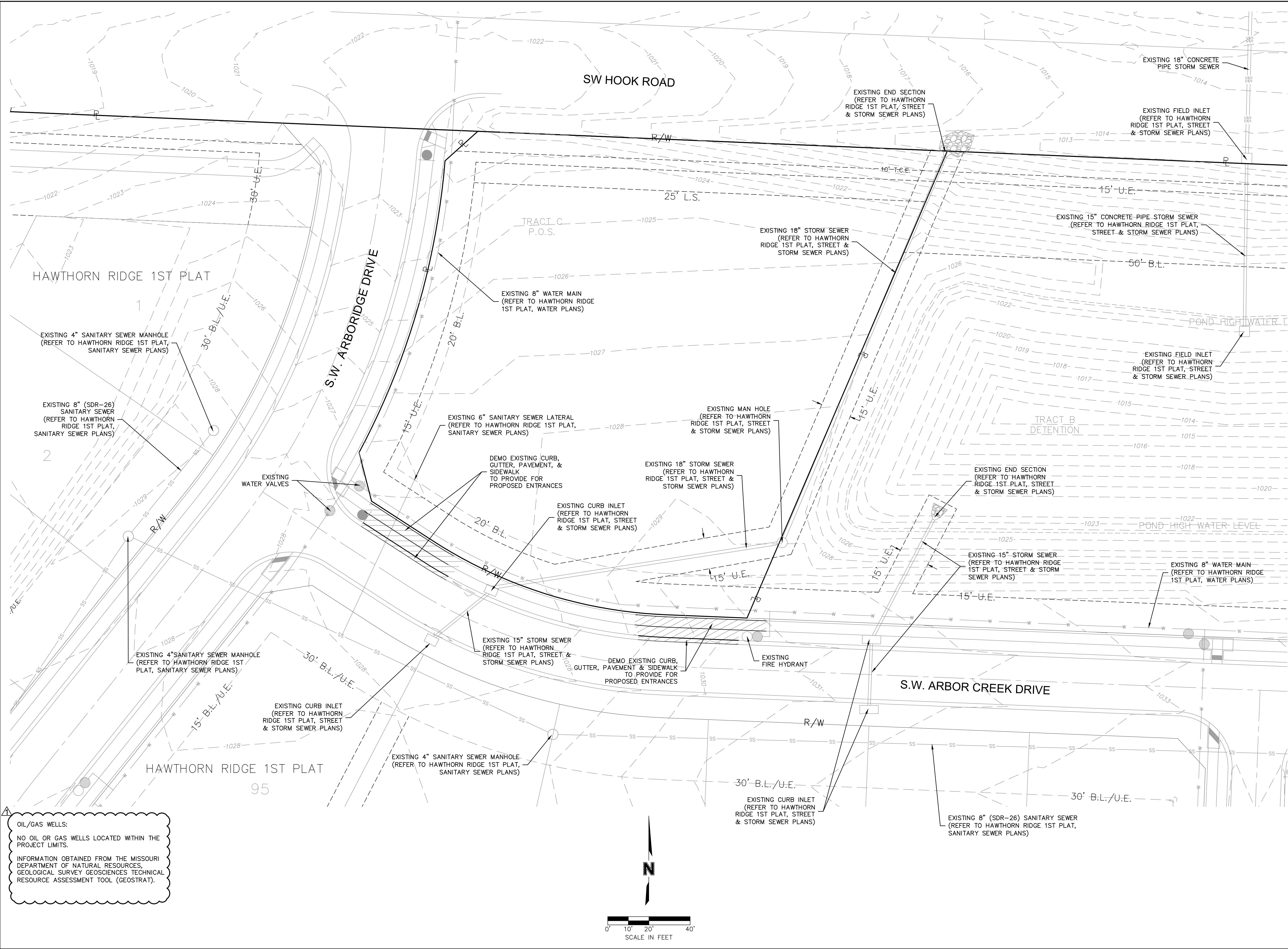
drawn by: G.S.
checked by: J.E.S.
designed by: J.E.S.
QA/QC by: M.G.D.
project no.: 019-1288
date: 06-14-2019

SHEET
C01

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STATE OF MISSOURI
JULIE ELAINE SELLERS
NUMBER PE-2017000367
8/2/19
RENEWAL

JULIE SELLERS, P.E.
MO# 2017000367

NO.	REV.	DATE	REVISIONS DESCRIPTION
1		2019.07.26	Oil and Gas Well Information Added

EXISTING CONDITIONS
FINAL DEVELOPMENT PLANS

HAWTHORN RIDGE
1534 SW HOOK ROAD

LEE'S SUMMIT, MISSOURI

drawn by: _____ G.S.
checked by: _____ J.E.S.
designed by: _____ J.E.S.
QA/QC by: _____ M.G.D.
project no.: 019-1288
date: 06-14-2019

SHEET
C03

2019

REVISIONS

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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.)
SITE	769	622

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.

GENERAL NOTES:

- 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.
- 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 THEIR EXPENSE.
- CONTRACTOR SHALL ADHERE TO THE SITE PREPARATION AND STRUCTURAL FILL RECOMMENDATIONS AS CALLED OUT IN THE GEOTECHNICAL REPORT AND ENGINEERING EVALUATION AS PROVIDED BY THE GEOTECHNICAL ENGINEER.
- ALL EMBANKMENT OUTSIDE OF RIGHT-OF-WAY SHOULD BE PLACED IN CONTROLLED LIFTS HAVING A MAXIMUM LOOSE LIFT THICKNESS OF 9". 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 +3 PERCENT OF OPTIMUM MOISTURE CONTENT.

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STATE OF MISSOURI
JULIE ELAINE SELLERS
NUMBER PE-2017000367
8/2/19
RENEWAL

JULIE SELLERS, P.E.
MO# 2017000367

NO. DATE

REV. 1 2019.07.26

REVISIONS DESCRIPTION

REVISED GRADING AND QUANTITIES

GRADING PLAN
FINAL DEVELOPMENT PLANS

HAWTHORN RIDGE
1534 SW HOOK ROAD

LEE'S SUMMIT, MISSOURI

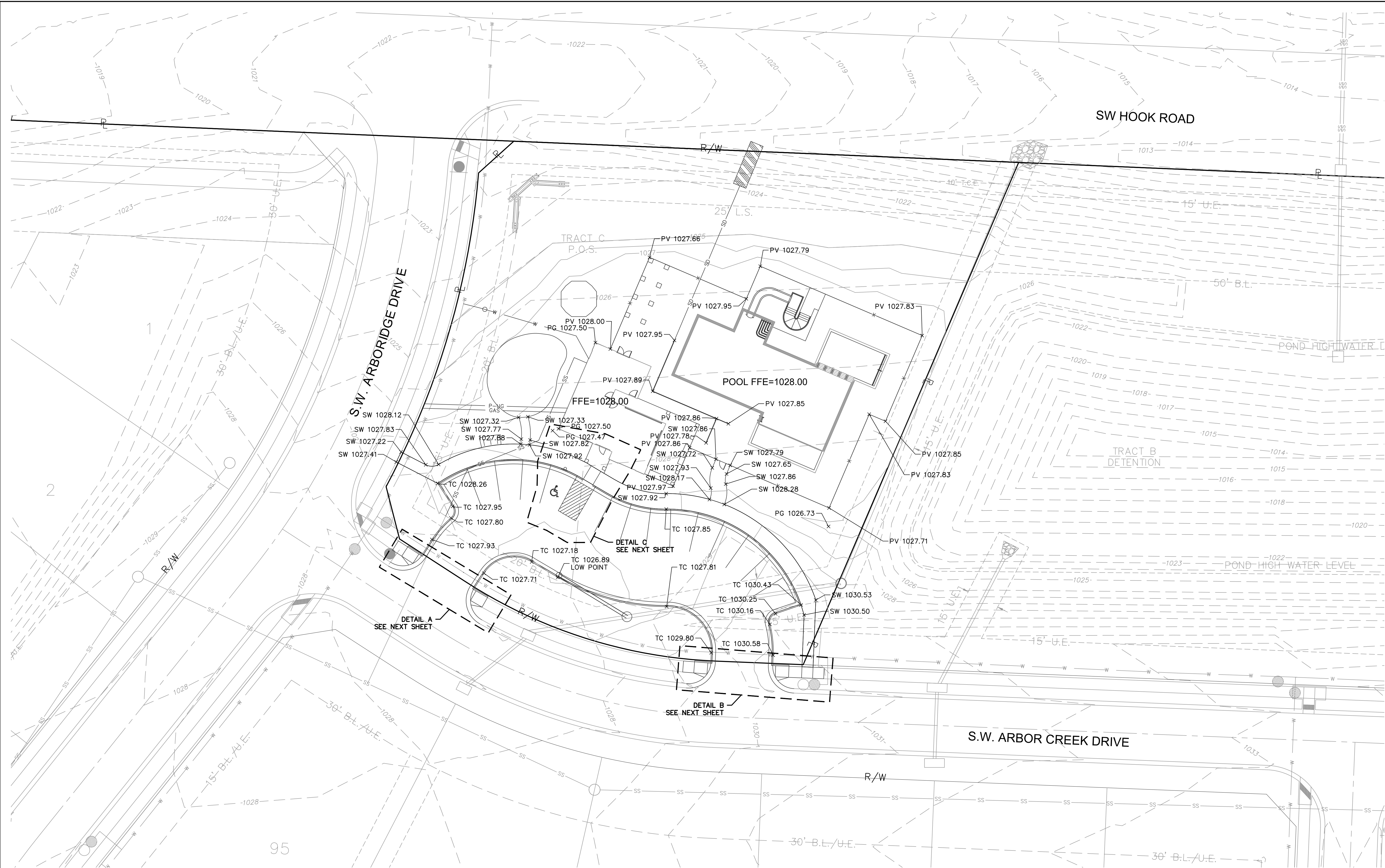
2019

REVISIONS

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checked by: J.E.S.
designed by: J.E.S.
QA/QC by: M.G.D.
project no.: 019-1288
date: 06-14-2018

SHEET
C04

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USER: jsellars



LEGEND	
TC	TOP OF CURB
PV	TOP OF PAVEMENT
SW	SIDEWALK
FF	FINISHED FLOOR ELEVATION
PG	PROPOSED GRADE

SPOT ELEVATIONS
FINAL DEVELOPMENT PLANS

HAWTHORN RIDGE
1534 SW HOOK ROAD

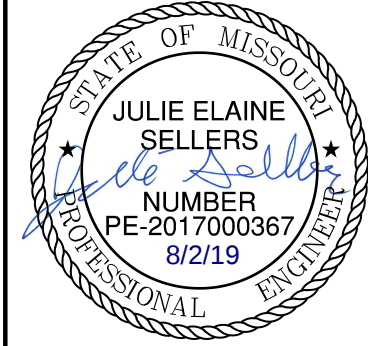
LEE'S SUMMIT, MISSOURI

2019

NO.	REV.	DATE
1		2019.07.26

REVISIONS DESCRIPTION
ADA ACCESSIBLE ROUTE SHOWN

JULIE SELLERS, P.E.
MO# 2017000367



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checked by: J.E.S.
designed by: J.E.S.
QA/QC by: M.G.D.
project no.: 019-1288
date: 06-14-2019

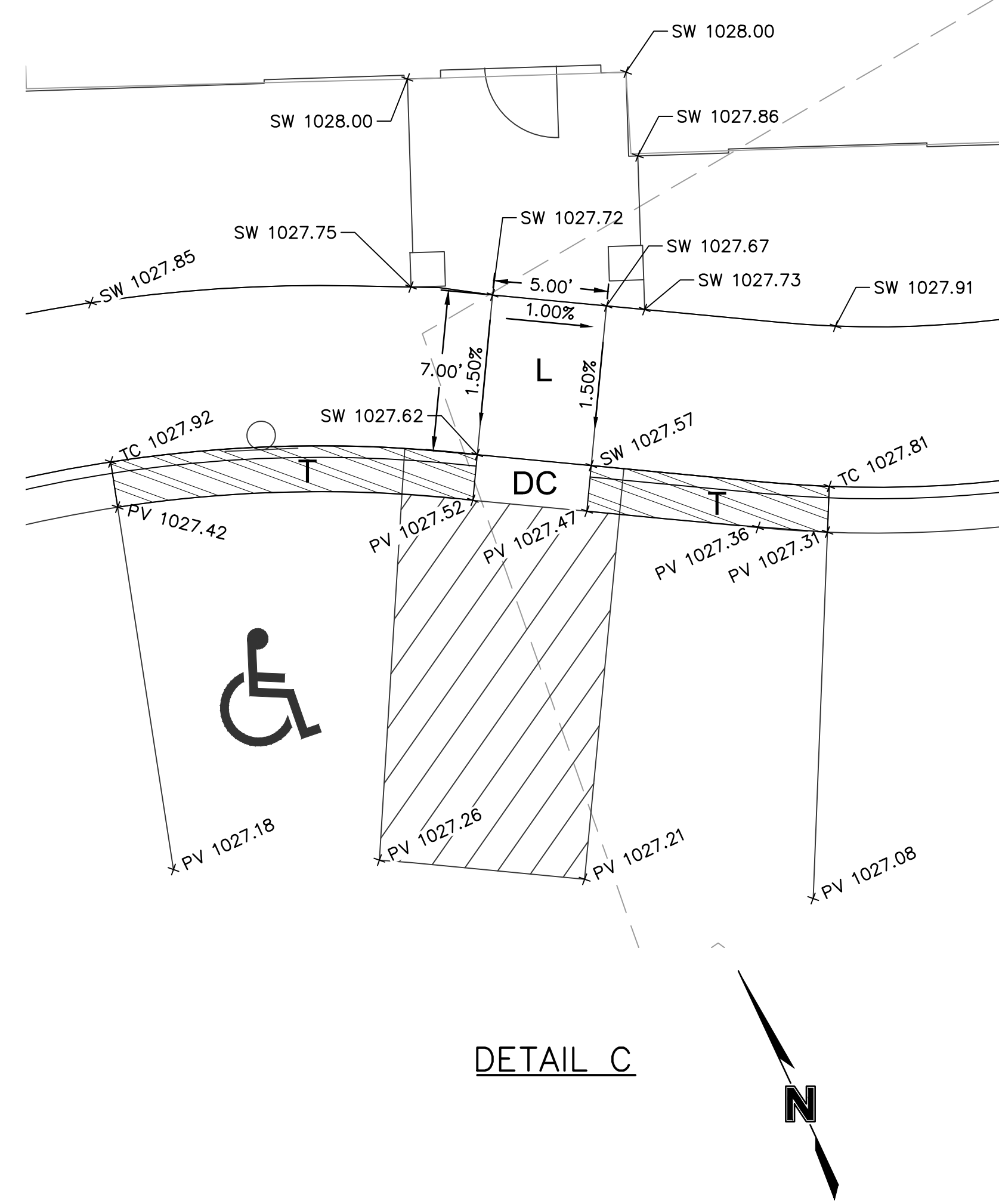
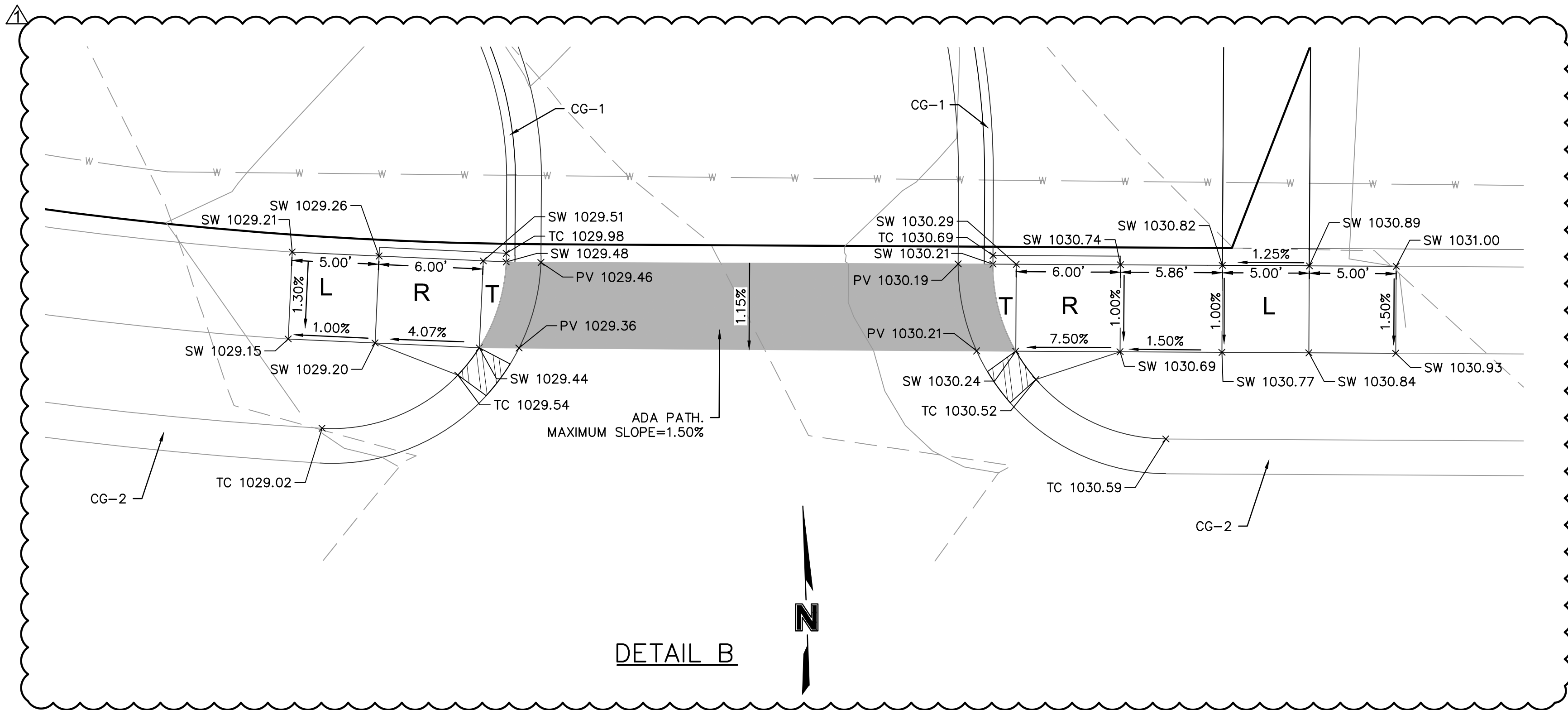
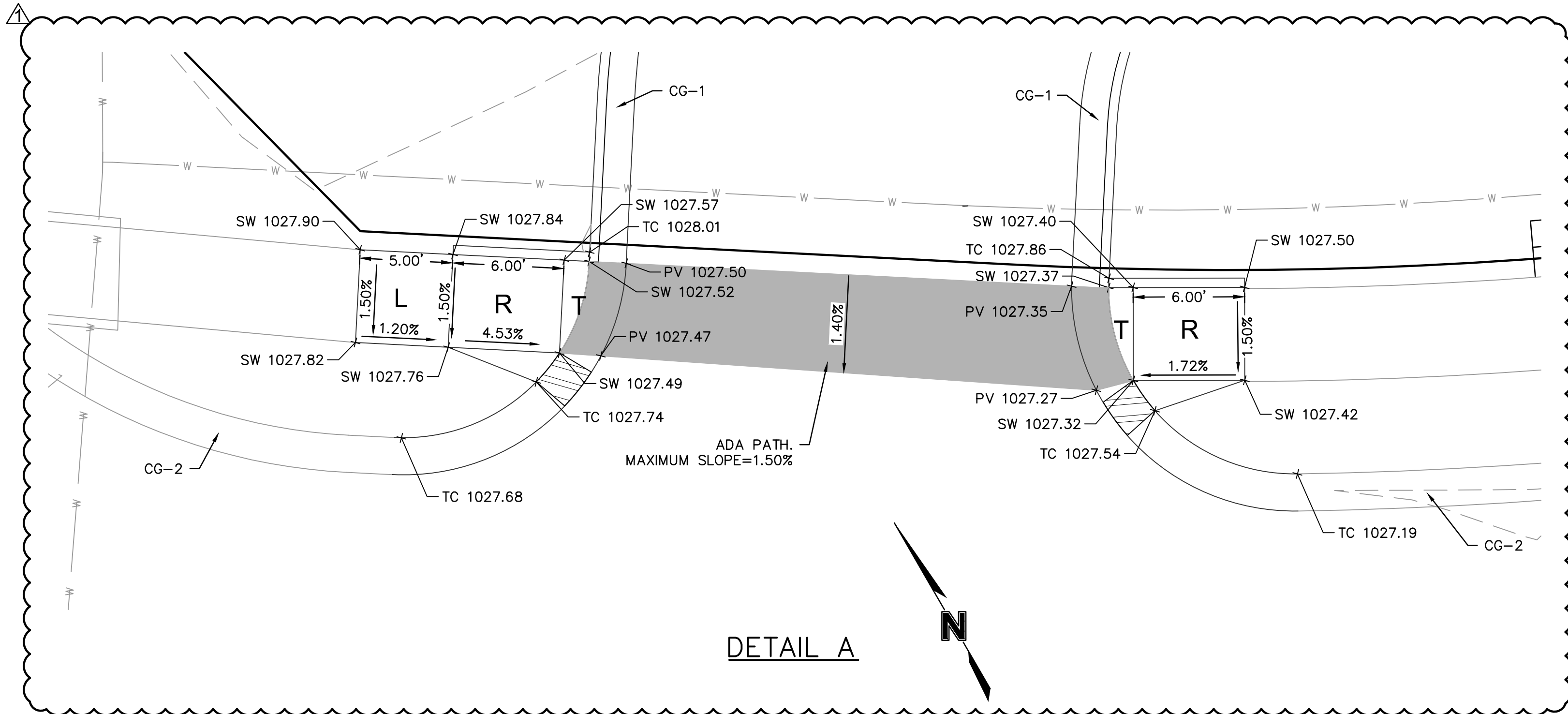
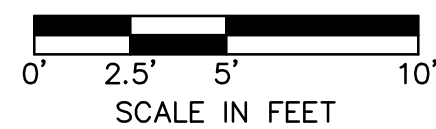
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C05

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ADA LEGEND	
T	TRANSITION
DC	DEPRESSED CURB
L	LANDING
R	RAMP
	TRANSITION CURB LIMITS

LEGEND	
TC	TOP OF CURB
PV	TOP OF PAVEMENT
SW	SIDEWALK
FF	FINISHED FLOOR ELEVATION

- NOTES:
1. All ADA curb ramps shall be built per current municipality adopted ADA standards.
 2. Curb ramp flares shall not be steeper than 1:10 max slope.
 3. A turning space is required at all directional changes, which shall not have a slope greater than 2%.
 4. Ramp runs shall have a maximum running slope of 7.5%.



SPOT ELEVATIONS
FINAL DEVELOPMENT PLANS

HAWTHORN RIDGE
1534 SW HOOK ROAD

LEE'S SUMMIT, MISSOURI

2019

REVISIONS DESCRIPTION

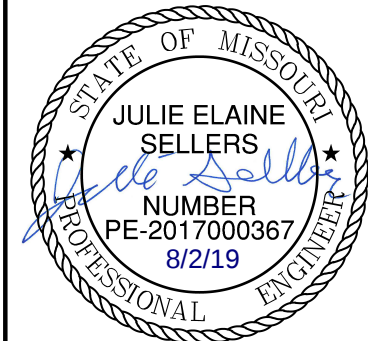
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1 2019.07.26

ADA RAMP DETAILS ADDED

REVISIONS

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MO# 2017000367

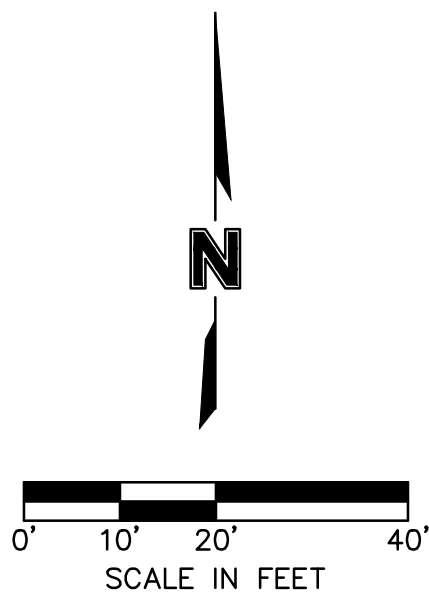


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checked by: J.E.S.
designed by: J.E.S.
QA/QC by: M.G.D.
project no.: 019-1288
date: 06-14-2019

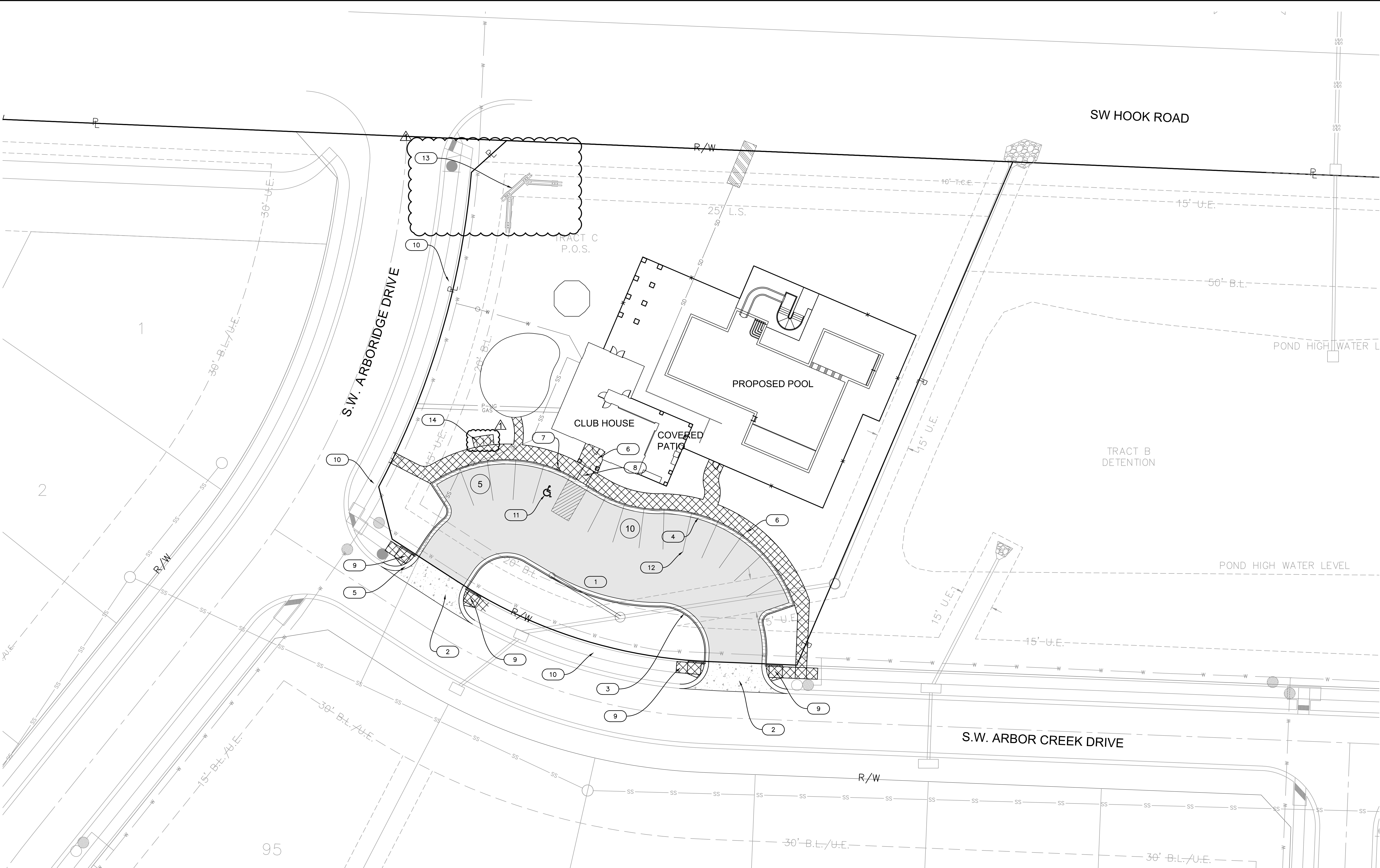
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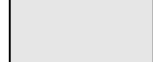


1. PAVEMENT MARKING SPACING ALONG CURB FOR
PARKING STALLS SHALL BE EVENLY DIVIDED. ADA STALL
SHALL BE A MIN. WIDTH OF 9' AND AISLE 8'
(SEE SHEET C12 FOR ADDITIONAL DETAILS)

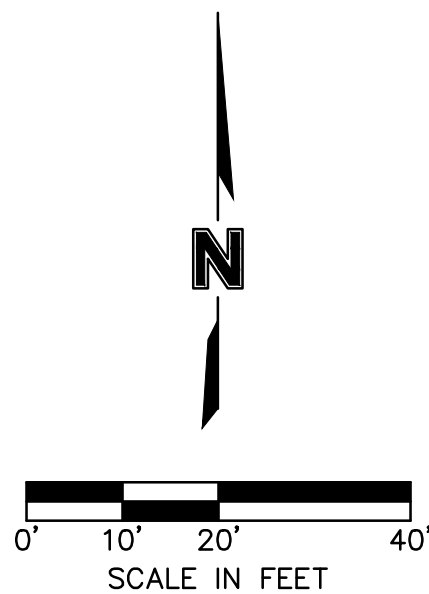
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HEET
C07



LEGEND		
	CONCRETE SIDEWALK (See Detail Sheet)	 CG-1 CURB & GUTTER (See Detail Sheet)
	STANDARD DUTY ASPHALT PAVEMENT (See Detail Sheet)	 CG-1 CURB & GUTTER (DRY) (See Detail Sheet)
	CONCRETE PAVEMENT (See Detail Sheet)	 CG-2 CURB & GUTTER (See Detail Sheet)
		1 # OF PARKING STALLS

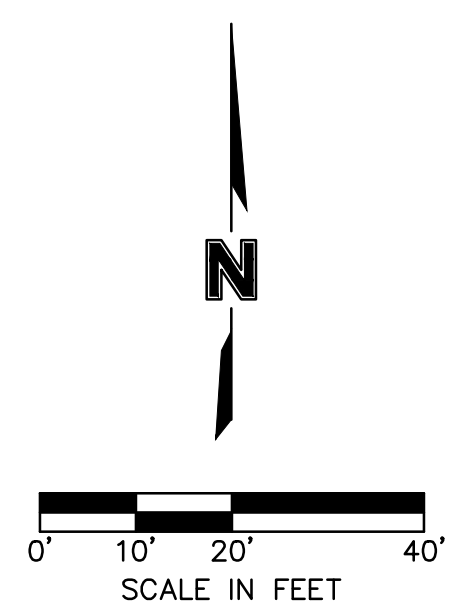
SITE DATA TABLE	
TOTAL AREA	47,506 S.F. (1.09 AC.)
TOTAL BUILDING FLOOR AREA	1,490 S.F.
PROPOSED IMPERVIOUS AREA	20,780 S.F. (0.48 AC.)
REQUIRED PARKING (1 STALL:16 LOTS)	13 STALLS (INCLUDING 1 ADA STALL) (204 LOTS)
PROPOSED PARKING	15 STALLS (INCLUDING 1 ADA STALL)



CONSTRUCTION NOTES

- | | | |
|---|---|--|
| 1 | CONSTRUCT STANDARD DUTY ASPHALT PAVEMENT (SEE LEGEND) | 
 |
| 2 | CONSTRUCT STANDARD CONCRETE PAVEMENT (SEE LEGEND) | |
| 3 | TYPE CG-1 CONCRETE CURB AND GUTTER (SEE LEGEND) | 
 |
| 4 | TYPE CG-1 DRY CONCRETE CURB AND GUTTER (SEE LEGEND) | |
| 5 | TYPE CG-2 CONCRETE CURB AND GUTTER (SEE LEGEND) | |
| 6 | CONSTRUCT PRIVATE SIDEWALK | |
| 7 | PROPOSED ACCESSIBLE PARKING SIGN | |

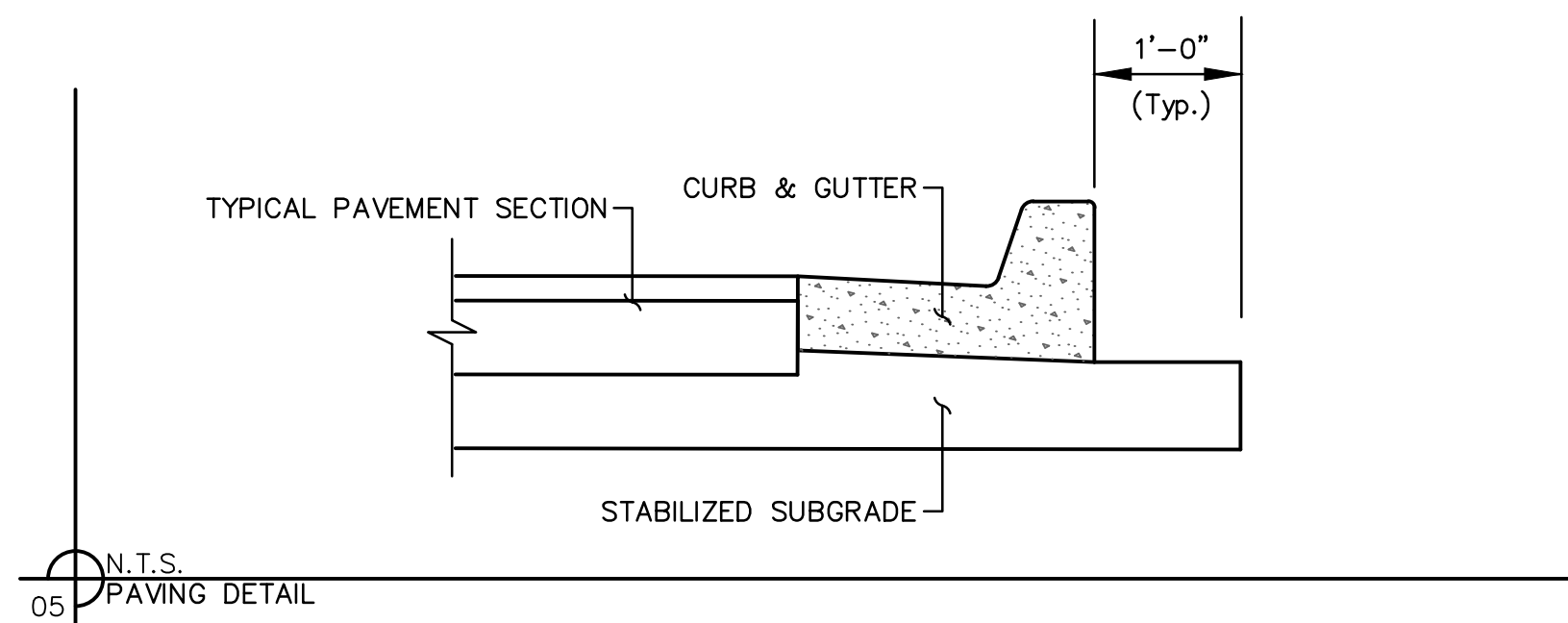
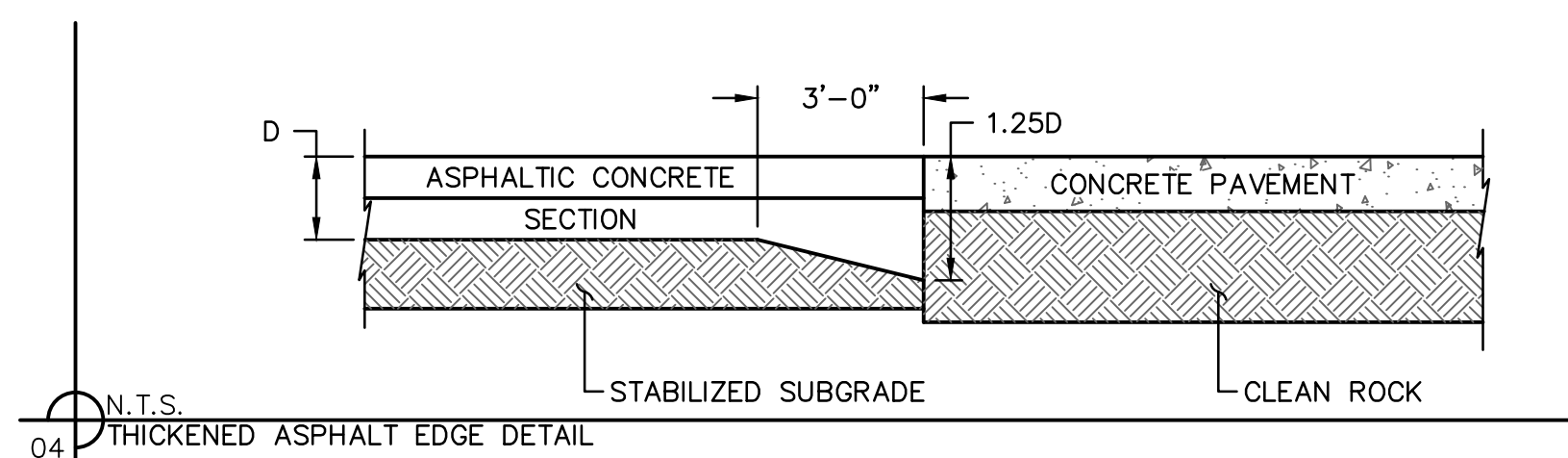
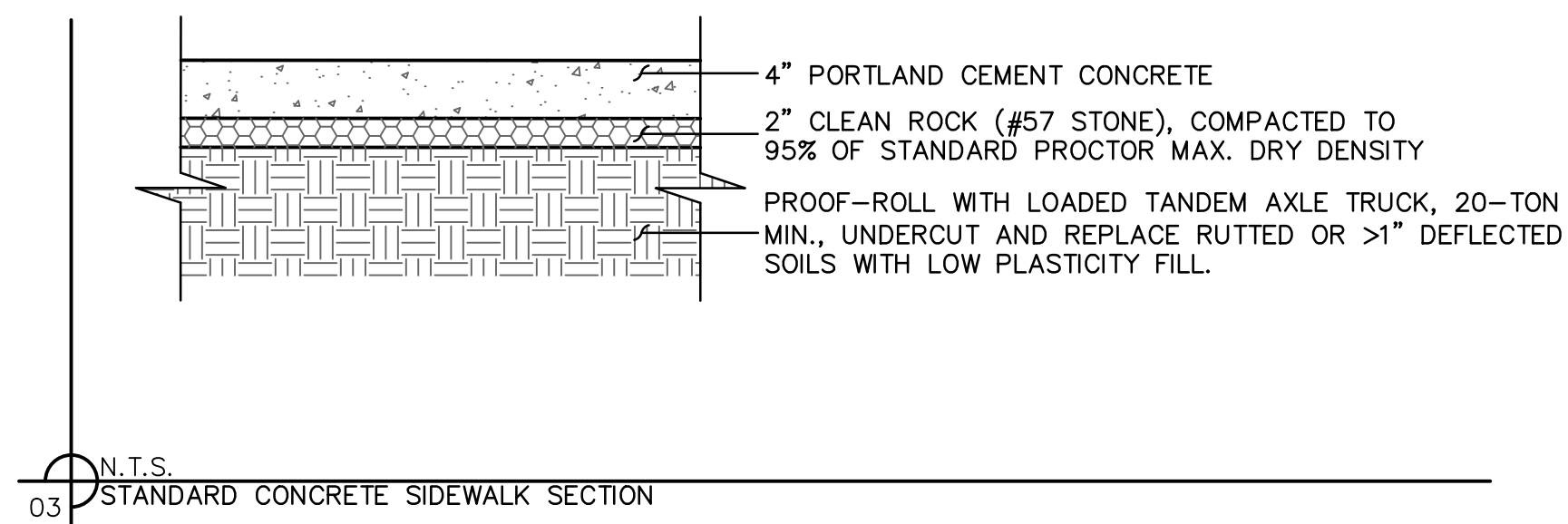
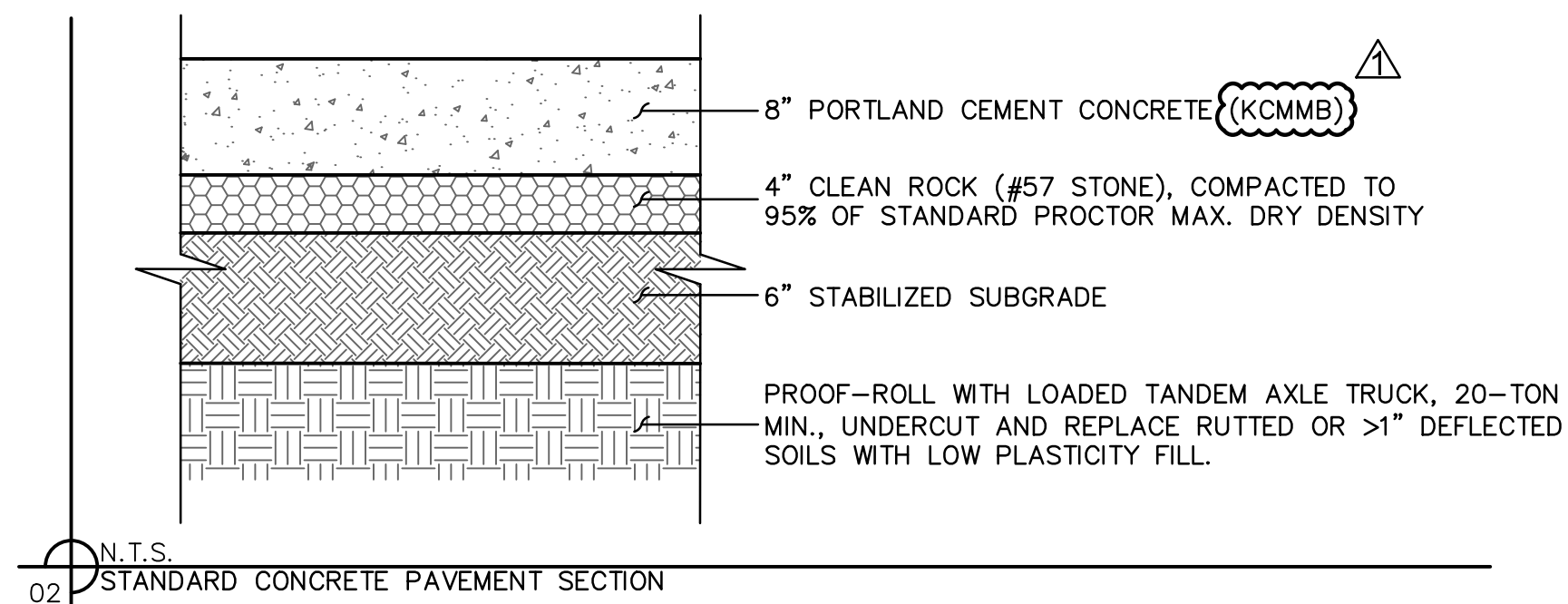
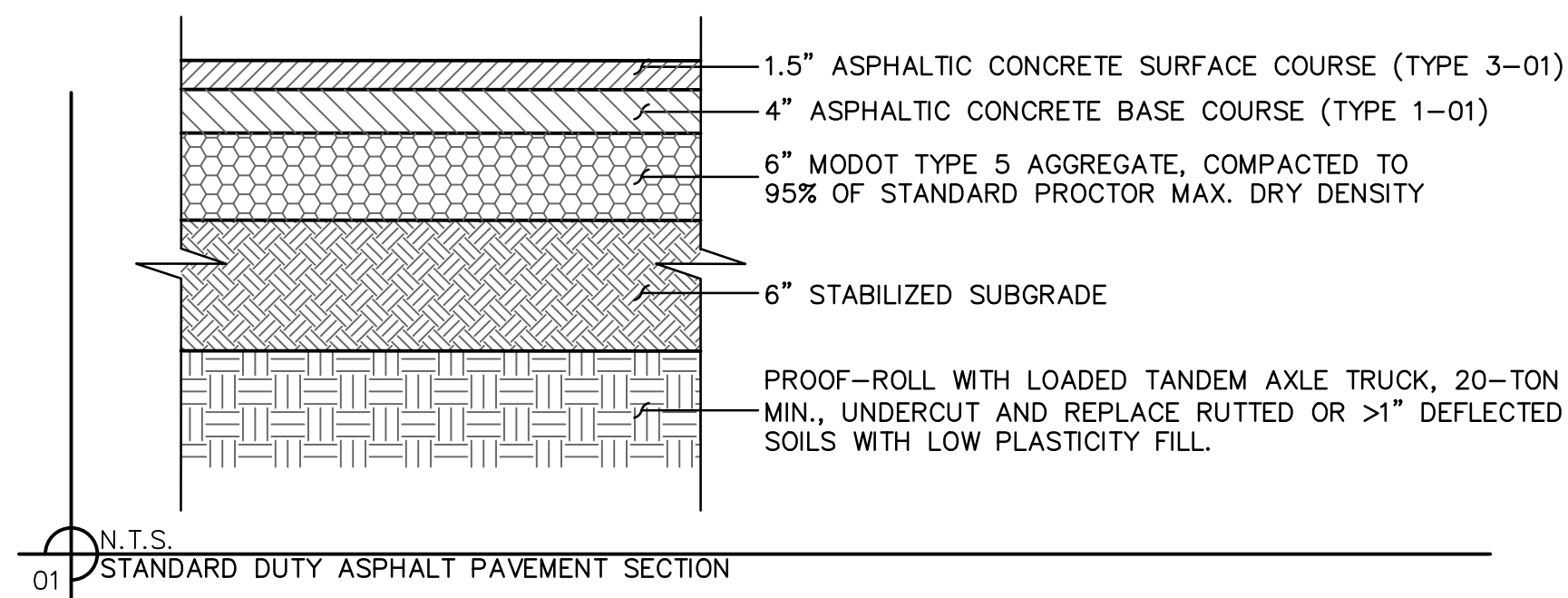
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|----|--|
| 8 | CONSTRUCT ACCESSIBLE SIDEWALK LANDING
(SEE SPOT ELEVATION PLAN) |
| 9 | ADA RAMP WITHOUT TRUNCATED DOMES |
| 10 | EXISTING PUBLIC SIDEWALK |
| 11 | PROPOSED ACCESSIBLE STRIPING (TYP.)
(SEE DETAIL SHEET) |
| 12 | PROPOSED PAVEMENT STRIPING (TYP.)
(SEE NOTE 10, SHEET C02) |
| 13 | PROPOSED MONUMENT SIGN
(SEE ARCHITECTURAL PLANS) |
| 14 | PROPOSED BICYCLE RACKS |



LEGEND	
DEVICES	
 SF 	SILT FENCE
 	STORM DRAIN INLET PROTECTION
	TEMPORARY STONE CONSTRUCTION ENTRANCE

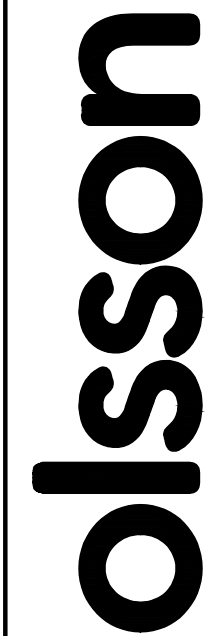
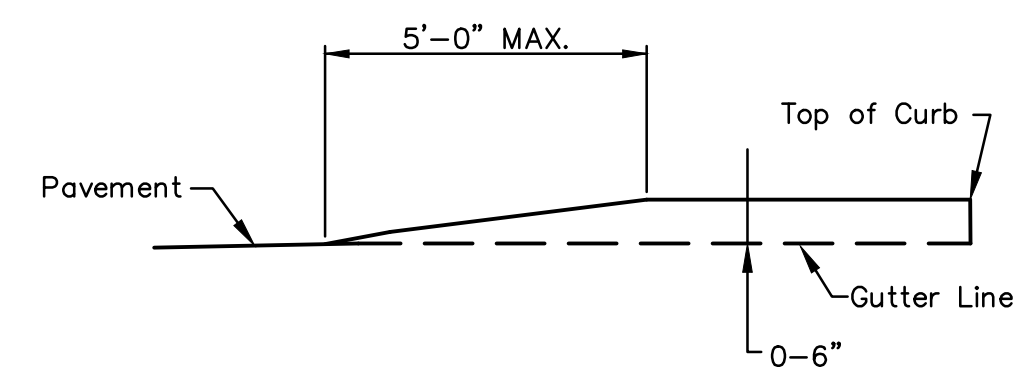
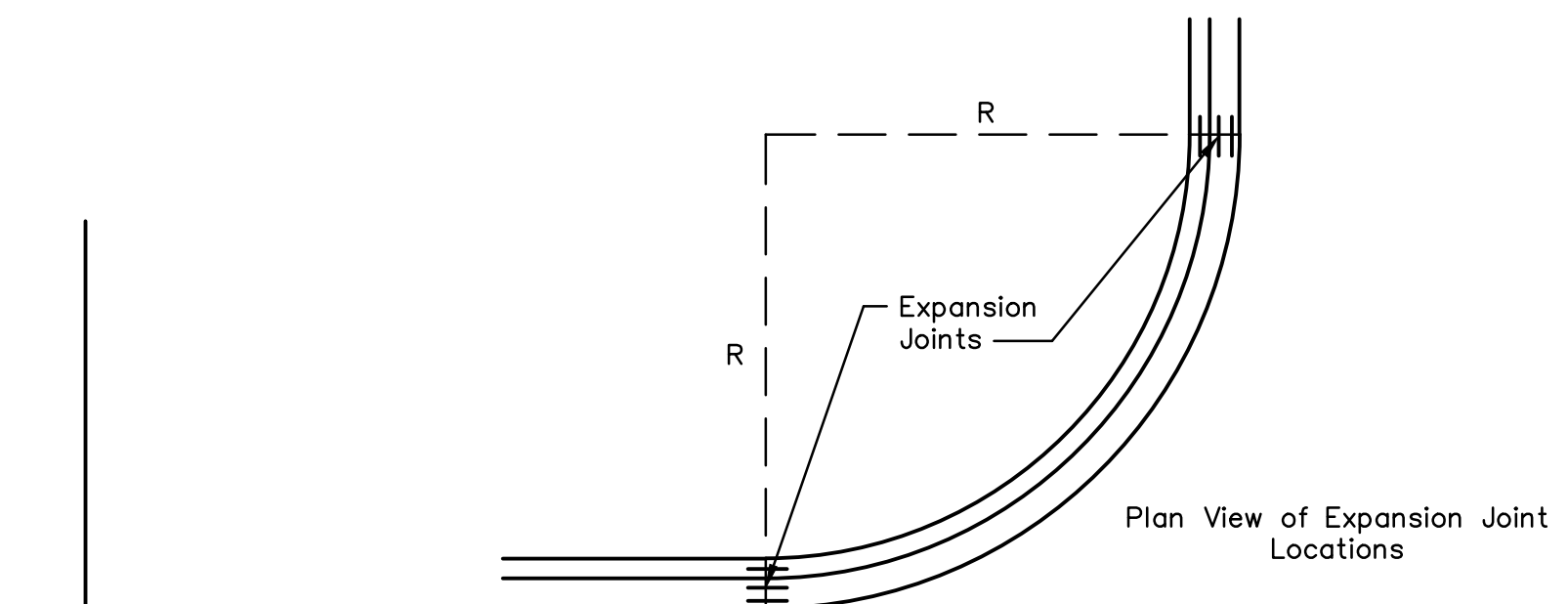
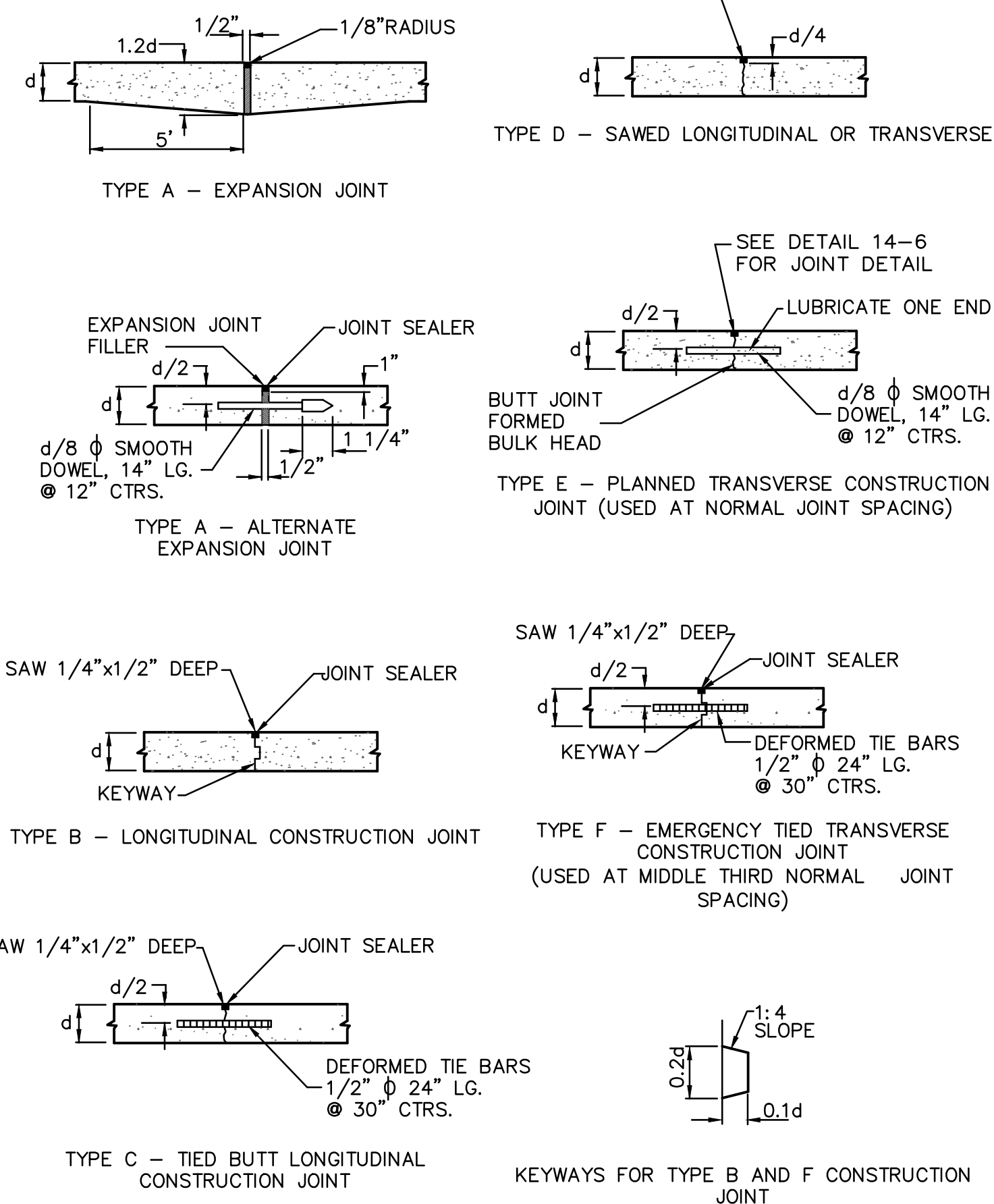
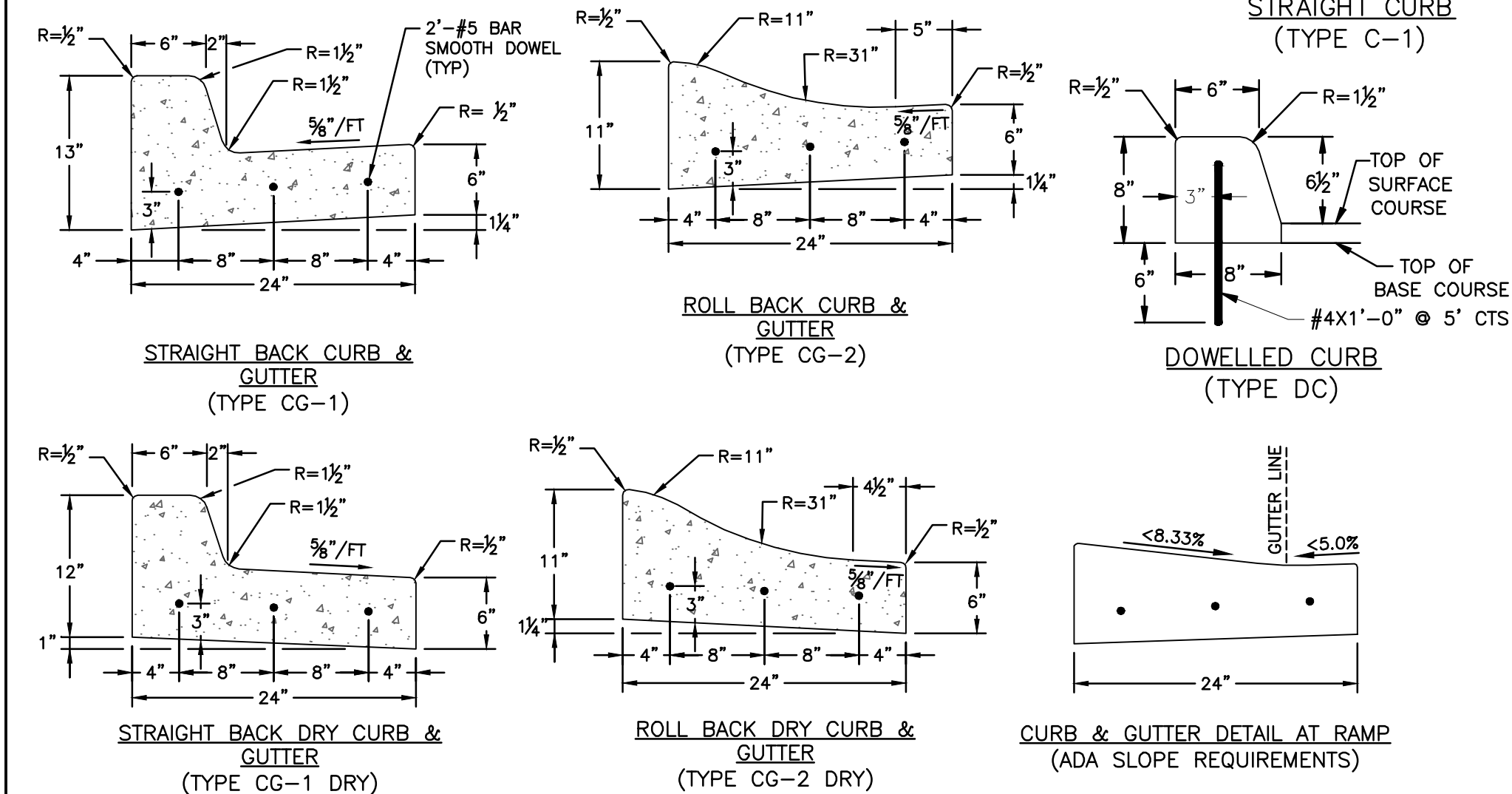
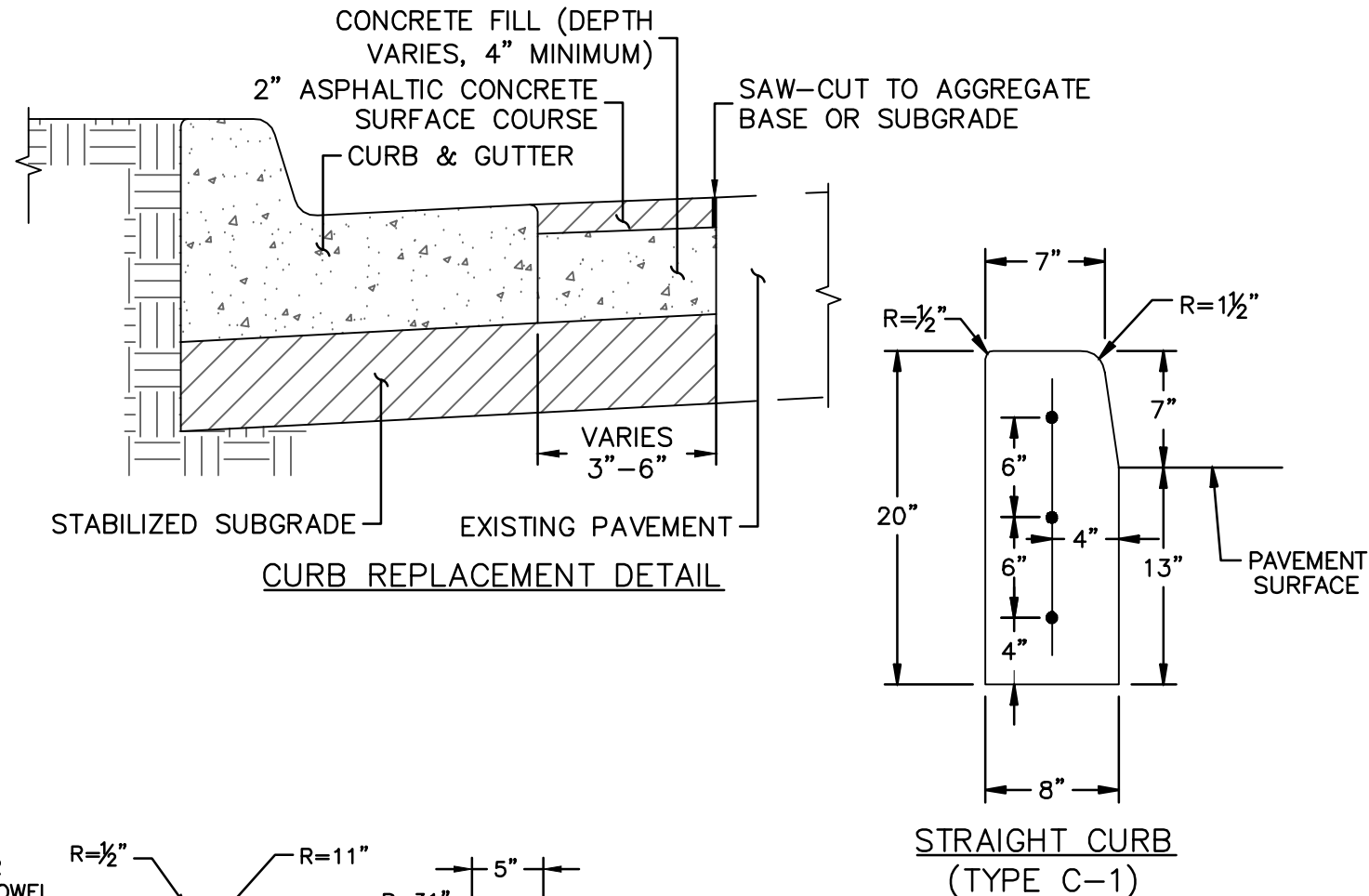
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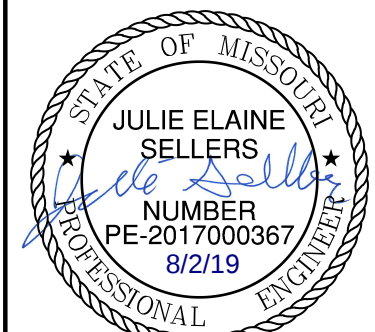


- GENERAL NOTES:

1. 3/4" ISOLATION JOINTS WITH 3 (2'-#5 BAR) SMOOTH DOWELS SHALL BE PLACED AT RADIUS POINTS AND AT 150' INTERVALS. THESE DOWELS SHALL BE GREADED AND WRAPPED ON ONE END WITH EXPANSION TUBES.
2. 3" DEEP CONTRACTION JOINTS SHALL BE INSTALLED AT APPROXIMATELY 10' INTERVALS. THESE JOINTS SHALL PASS ACROSS THE ENTIRE CURB SECTION.
3. CONCRETE FILL SHALL HAVE UNIFORM AND SMOOTH FINISH.
4. KCMWB 4K CONCRETE SHALL BE USED FOR ALL CURBS.
5. ASPHALTIC CONCRETE SURFACE SHALL CONFORM TO STANDARD SPECIFICATIONS SECTION 2205.2.
6. CURBS FOR NEW STREETS SHALL BE BUILT ON ASPHALT OR AGGREGATE BASE AS SHOWN IN TYPICAL SECTION DETAIL.
7. WHITE CURING COMPOUND MUST BE APPLIED UNIFORMLY TO THE CONCRETE SURFACE IMMEDIATELY AFTER FINAL FINISHING.



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JULIE SELLERS, P.E.
MO# 2017000367

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DETAIL SHEET
FINAL DEVELOPMENT PLANS

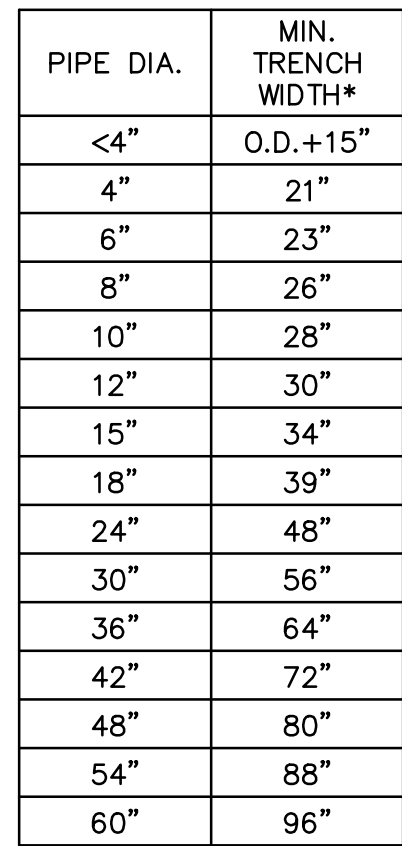
HAWTHORN RIDGE
534 SW HOOK ROAD

LEE'S SUMMIT, MISSOURI

2019

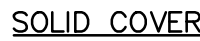
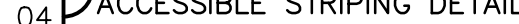
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designed by: J.E.S.
QA/QC by: M.G.D.
project no.: 019-1288
date: 06-14-2019

SHEET
C11



1. ALL HDPE AND PVC PIPE SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321, "STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY FLOW APPLICATIONS", LATEST EDITION.
2. IF TRENCH IS EXCAVATED IN ROCK OR HIGH-BEARING STRENGTH SOILS, TRENCH WIDTHS FOR 24" – 60" DIA. MAY BE REDUCED, FROM VALUES IN TABLE 1, TO THE PIPE OD PLUS 12".
3. MEASURES SHOULD BE TAKEN TO PREVENT MIGRATION OF NATIVE FINES INTO BACKFILL MATERIAL, WHEN REQUIRED.
4. **FOUNDATION:** WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE GEOTECHNICAL ENGINEER AND REPLACE WITH SUITABLE MATERIAL AS SPECIFIED BY THE GEOTECHNICAL ENGINEER. AS AN ALTERNATIVE AND AT THE DISCRETION OF THE DESIGN ENGINEER, THE TRENCH BOTTOM MAY BE STABILIZED USING A GEOTEXTILE MATERIAL.
5. **BEDDING:** SUITABLE MATERIAL SHALL BE ASTM CLASS 1A OR 1B, MODOT TYPE 1, OR APPROVED OTHER, COMPACTED TO 95% STANDARD MAX. DENSITY. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. UNLESS OTHERWISE NOTED BY THE ENGINEER, MINIMUM BEDDING THICKNESS SHALL BE 4" (100mm) FOR PIPE 24" DIA. DIAMETER AND LESS; 6" FOR 30"–60" DIA. DIAMETER PIPE.
6. **INITIAL BACKFILL:** SUITABLE MATERIAL SHALL BE ASTM CLASS 1A OR 1B, MODOT TYPE 1, OR APPROVED OTHER, COMPACTED TO 95% STANDARD MAX. DENSITY IN THE PIPE ZONE EXTENDING NOT LESS THAN 6" ABOVE CROWN OF PIPE. MATERIAL SHALL BE INSTALLED AS REQUIRED IN ASTM D2321, LATEST EDITION. INSTALL AND COMPACT IN 6" MAXIMUM LIFTS.
7. **FINAL BACKFILL:** EXCEPT WHERE SUPERCEDED BY CITY REQUIREMENTS FOR RIGHT-OF-WAY CONSTRUCTION, GEOTECHNICAL REQUIREMENTS FOR UTILITY TRENCH BACKFILL, AND OTHER CONSIDERATIONS, SUITABLE MATERIAL MAY BE SITE SLOES COMPACTED TO 95% STANDARD MAX. DENSITY TO WITHIN 12" OF THE PAVEMENT SUBGRADE, AND TO SUBGRADE ELEVATION FOR NON-PAVED AREAS.
8. **MINIMUM COVER:** MINIMUM COVER, H, IN NON-TRAFFIC RATED APPLICATIONS (GRASS OR LANDSCAPE AREAS) IS 12" FROM THE TOP OF PIPE TO GROUND SURFACE. ADDITIONAL COVER MAY BE REQUIRED PER CITY AND/OR UTILITY STANDARDS AND/OR TO PREVENT DAMAGE TO PIPE FOR AT-RISK APPLICATIONS. MINIMUM COVER SHALL BE 18" FROM THE TOP OF PIPE TO GROUND SURFACE OR 12" OF COVER FOR UP TO 60" DIA. PIPE, MEASURED FROM TOP OF PIPE TO BOTTOM OF FLEXIBLE OR TO TOP OF RIGID PAVEMENT.

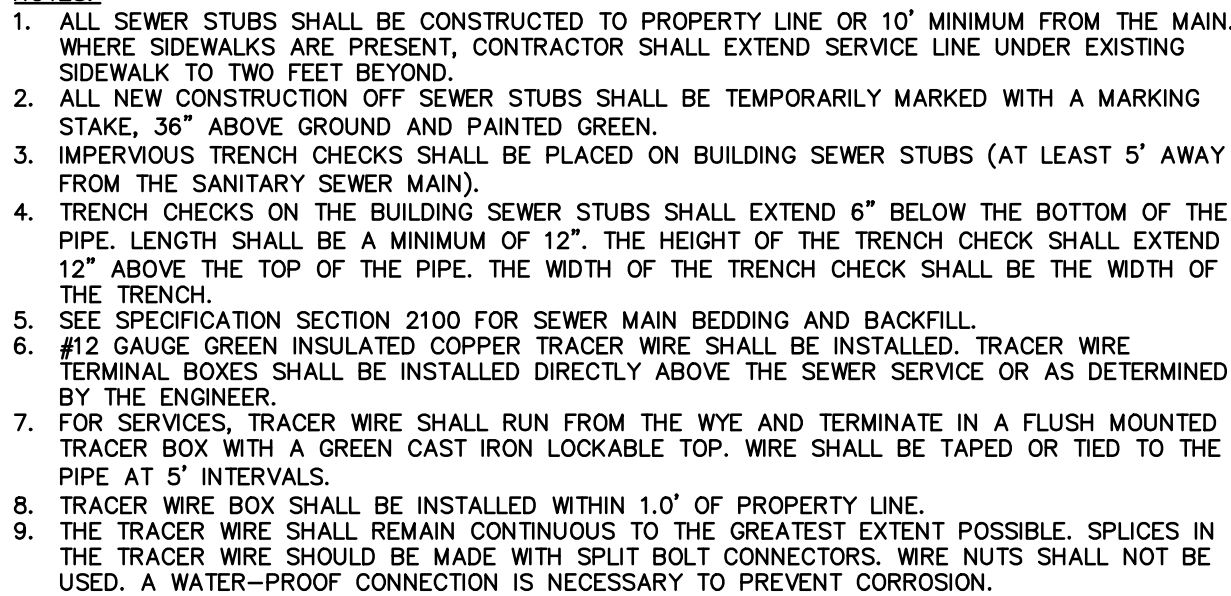
04 N.T.S.
ACCESSIBLE STRIPING DETAIL



1. BOTH DRAIN BASINS AND CURB INLETS USE STANDARD BASIN ASSEMBLY.
2. UNLESS OTHERWISE COORDINATED WITH ENGINEER, NO SUBSTITUTION FOR ADS NYLOPLAST STRUCTURES, INCLUDING ALL PARTS. ALL CONSTRUCTION SHALL BE PER MANUFACTURER'S STANDARDS AND RECOMMENDATIONS.

1. ALL SIGNS SHALL COMPLY WITH THE U.S. DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION'S "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES", LOCAL CODES AND AS SPECIFIED. MOUNT SIGNS TO POST IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS
2. GALVANIZED SQUARE TUBE:
 - POST TUBES - 2"x2"x $\frac{1}{8}$ " 12CA.
 - POST TUBE SHALL MEET ASTM A1011 GRADE 50.
 - POST TUBE GALVANIZED AS PER ASTM A653 GRADE 50.
 - ANCHOR TUBE - 2"x2"x $\frac{1}{8}$ "x $\frac{1}{8}$ "x $\frac{1}{8}$ " 12CA.
 - HEAVY DUTY ANCHOR TUBE SHALL MEET ASTM A500 GRADE 50.
 - STRUCTURAL TUBE AND STEEL SHALL BE HOT DIP GALVANIZED PER ASTM A123.

THE UPPER SIGN POST SHALL TELESCOPE INSIDE THE ANCHOR TUBE A MINIMUM OF 12". THE ANCHOR TUBE SHALL BE A MINIMUM 27" DEEP WITH 3" MIN., 4" MAX. EXPOSED ABOVE FINISH GRADE.



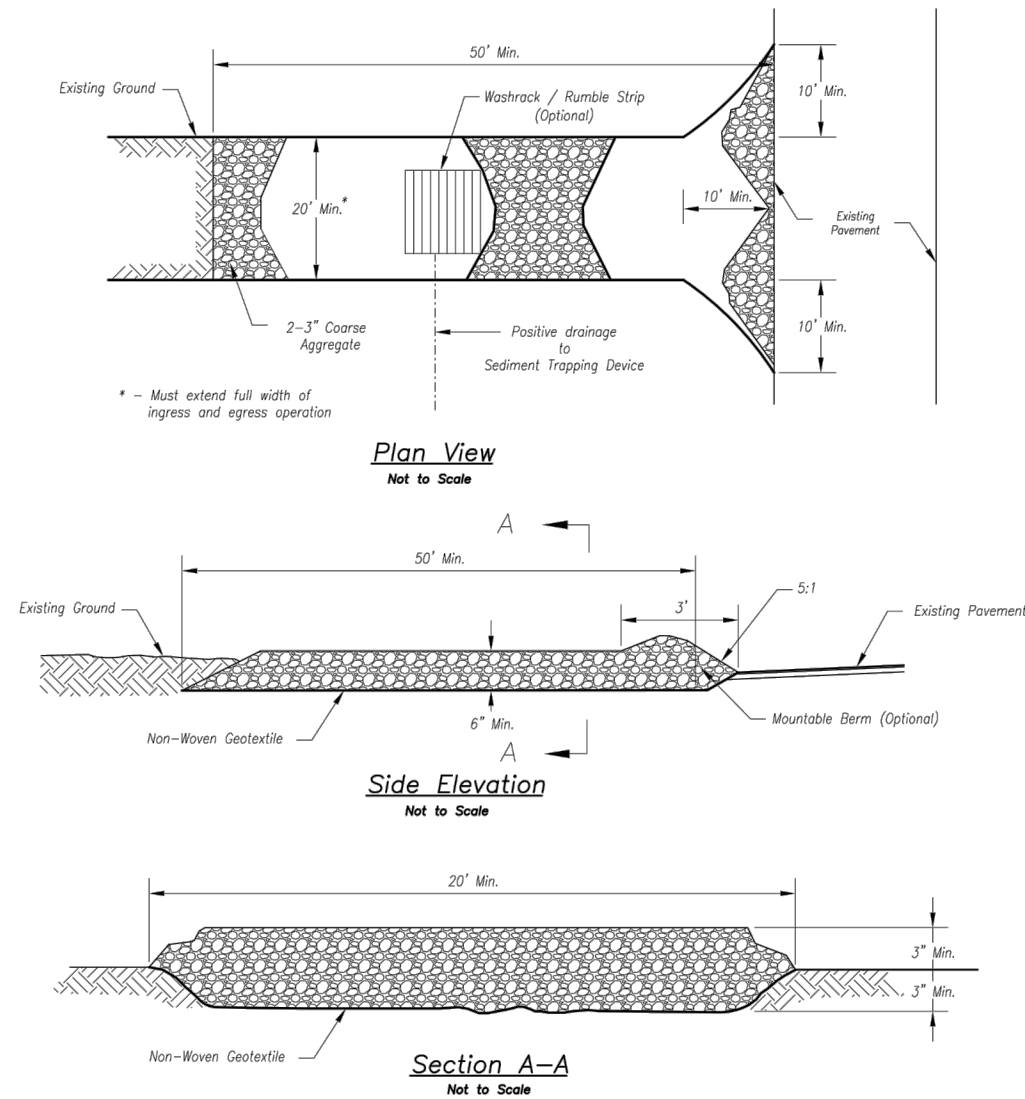
olsson



LEE'S SUMMIT, MISSOURI

drawn by: _____ G.S.
checked by: _____ J.E.S.
designed by: _____ J.E.S.
QA/QC by: _____ M.G.D.
project no.: _____ 019-1288
date: _____ 06-14-2019

SHEET
C12

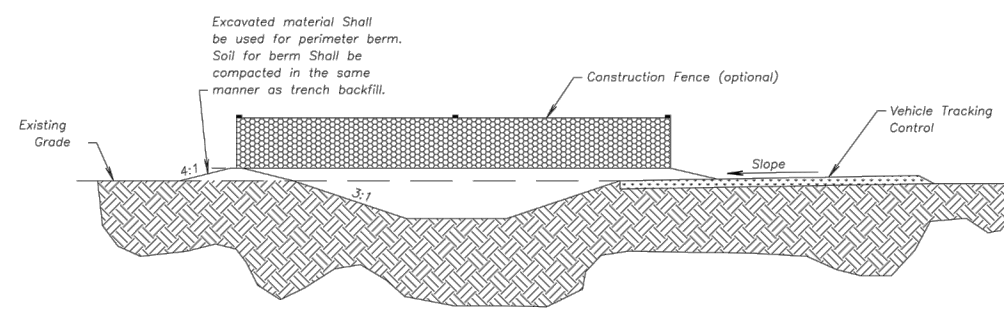


1. Avoid locating on steep slopes, at curves on public roads, or in vicinity of disturbed area.
2. Remove all vegetation and other undesirable material from the foundation area, grade, and crown for positive drainage.
3. If slope towards the public road exceeds 2%, construct a 6'-to 8'-inch high ridge with 3:1:1 side slopes across the foundation approximately 15 feet from the edge of the public road. If slope runoff from 3:1, divert runoff from 3:1.
4. Install pipe within the entrance if needed to maintain drainage ditches along public roads.
5. Place stone to dimensions and grade as shown on plans. Leave surface sloped for drainage.
6. Divert all surface runoff and drainage from the entrance to a sediment control device.
7. If conditions warrant, place geotextile fabric on the ground foundation to improve stability.

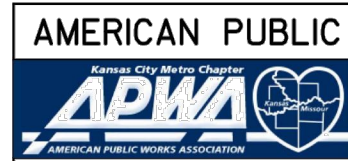
Maintenance for Construction Entrance:

1. Reshape entrance as needed to maintain function and integrity of installation. Top dress with clean aggregate as needed.

CONSTRUCTION ENTRANCE



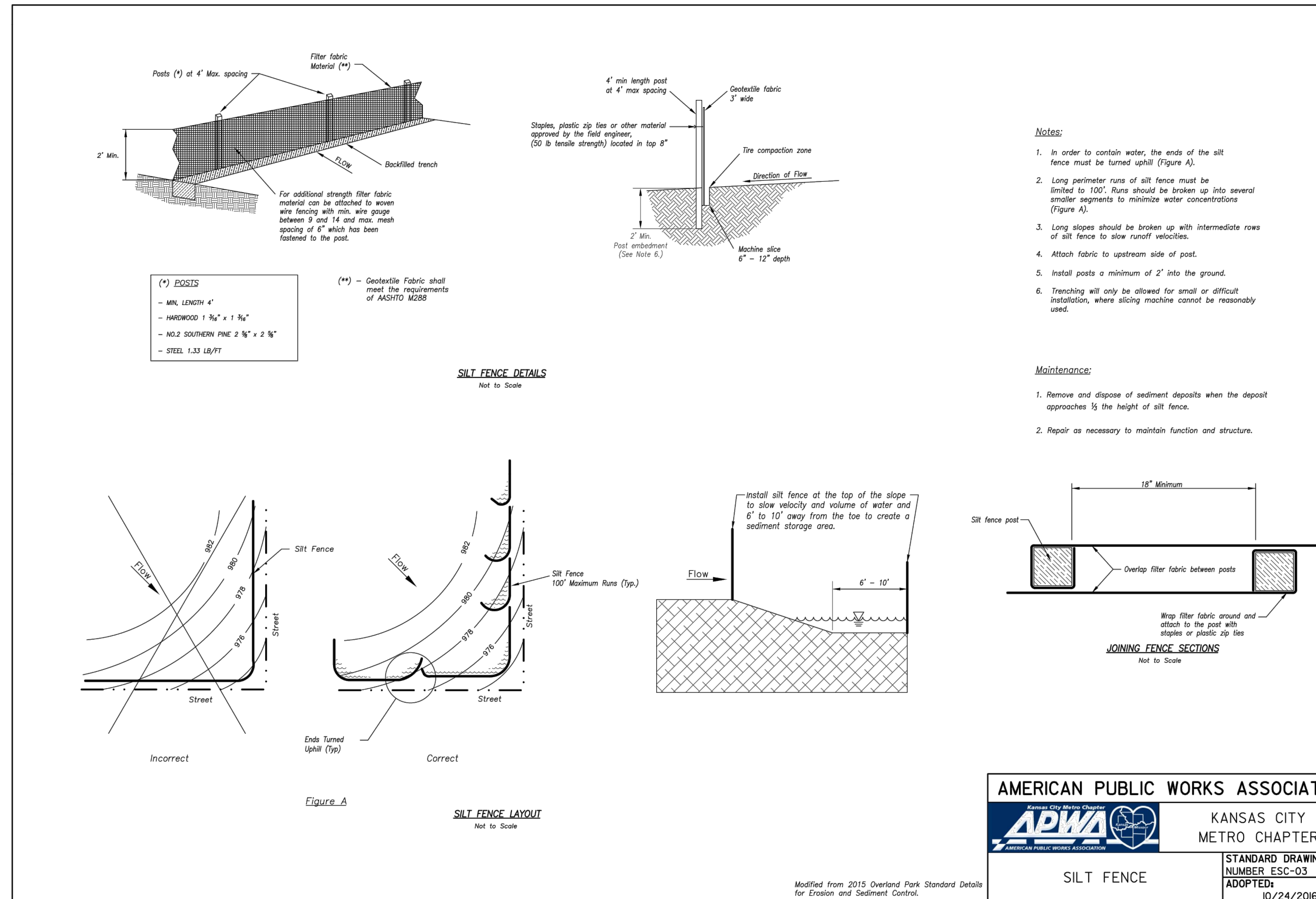
CONCRETE WASHOUT



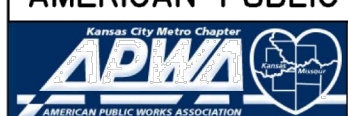
CONSTRUCTION ENTRANCE
AND CONCRETE WASHOUT

STANDARD DRAWING NUMBER ESC-01
ADOPTED: 10/24/2016

Construction Entrance modified from 2015 Overland Park Standard Details for Erosion and Sediment Control; Concrete Washout modified from 2009 City of Great Bend Standard Drawings.



AMERICAN PUBLIC WORKS ASSOCIATION

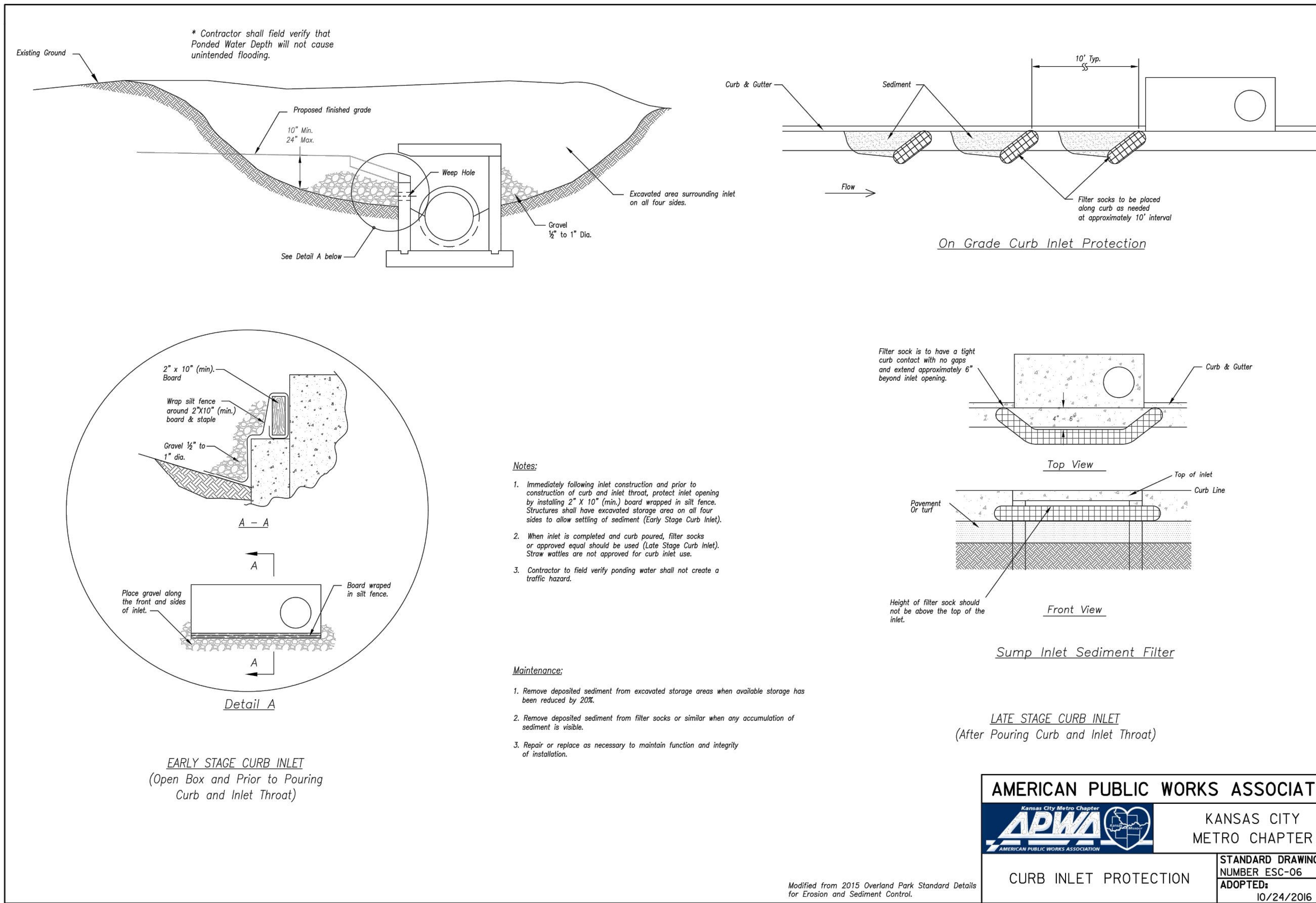


KANSAS CITY
METRO CHAPTER

SILT FENCE

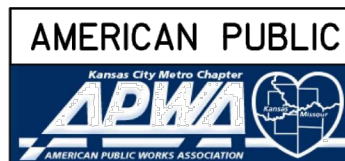
NUMBER ESC-03
ADOPTED:
10/24/2016

Modified from 2015 Overland Park Standard Details
for Erosion and Sediment Control.



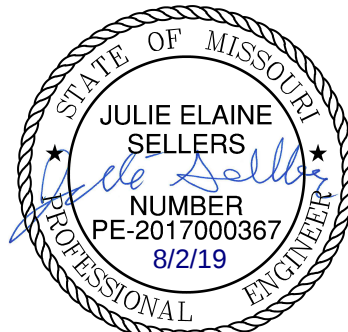
Sump Inlet Sediment Filter

LATE STAGE CURB INLET
Pouring Curb and Inlet Throat



CURB INLET PROTECTION

STANDARD DRAWING NUMBER ESC-06
ADOPTED: 10/24/2016



JULIE SELLERS, P.E.
MO# 2017000367

[illegible]

DETAIL SHEET
FINAL DEVELOPMENT PLANS

HAWTHORN RIDGE
534 SW HOOK ROAD

LEE'S SUMMIT, MISSOURI

2019

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