

BUILDING RENOVATION

LOT 1, RAINTREE 150 CENTER
A SUBDIVISION IN LEE'S SUMMIT, JACKSON COUNTY, MISSOURI,
AS SHOWN ON PLAT ENTITLED MINOR PLAT OF RAINTREE 150 CENTER,
RECORDED APRIL 21, 2004 IN PLAT BOOK 181, PAGE 12 OF THE
JACKSON COUNTY, MISSOURI RECORDER OF DEEDS OFFICE

FINAL DEVELOPMENT PLAN

CONSTRUCTION NOTES

- GRADING:
1. ALL CONTOURS SHOWN ON THESE PLANS ARE BASED ON U.S.G.S. DATA.
 2. ALL GRADING SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CITY OF LEE'S SUMMIT.
 3. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RESTORE THE GRADE TO THE DESIGN ELEVATIONS.
 4. NO SLOPES SHALL BE GRADED STEEPER THAN 3:1 (HORIZONTAL : VERTICAL), AND SHALL BE SEEDD AND MULCHED.
 5. ONLY THE DESIGNATED CONSTRUCTION ACCESS ROUTE MAY BE USED TO MOVE EQUIPMENT IN AND OUT. NO OTHER ACCESS POINT WILL BE PERMITTED.
 6. ALL SILTATION MEASURES MUST BE IN PLACE BEFORE ANY OPERATIONS THAT DISTURB THE NATURAL GRADE COMMENCES. THIS INCLUDES GRUBBING OR STUMP REMOVAL. THE CITY OF LEE'S SUMMIT SHALL BE NOTIFIED UPON COMPLETION OF ALL SILTATION AND EROSION FACILITIES AND SHALL INSPECT AND APPROVE SUCH FACILITIES PRIOR TO THE COMMENCEMENT OF ANY CLEARING OR GRADING ACTIVITIES.
 7. SILTATION AND CONTROL FACILITIES MUST BE MAINTAINED THROUGHOUT THE ENTIRE CONSTRUCTION PERIOD. THIS INCLUDES REMOVAL OF MUD FROM SILTATION BASINS AND REPLACEMENT OF THE CITY OF LEE'S SUMMIT APPROVED EROSION CONTROL DEVICES. MUD SHALL NOT BE PERMITTED TO MIGRATE OFF THE SITE. DAMAGE OR FAILURE OF SILTATION AND EROSION CONTROL FACILITIES SHALL BE REPAIRED. DAMAGE OR FAILURE OF SILTATION AND EROSION CONTROL FACILITIES SHALL BE REPAIRED IMMEDIATELY BUT NOT LONGER THAN 24 HOURS AFTER NOTIFICATION. IF PROPOSED MEASURES FAIL TO ADEQUATELY PROTECT THE ADJOINING PROPERTY ADDITIONAL FACILITIES SHALL BE INSTALLED AS DIRECTED.
 8. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR THE MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES OF CONSTRUCTION SELECTED BY THE CONTRACTOR TO PROTECT OFF-SITE PROPERTY FROM EROSION OR SILTATION. THE ENGINEER SHALL NOT BE LIABLE FOR DAMAGE CAUSED BY EROSION OR SILTATION DUE TO DEFECTIVE SILTATION CONTROL DEVICES.
 9. MUD WILL NOT BE PERMITTED TO BE CARRIED OFF SITE ONTO PUBLIC STREETS. A TEMPORARY WASH FACILITY SHALL BE PROVIDED TO REMOVE MUD FROM VEHICLE TIRES BEFORE ENTERING THE PUBLIC STREETS.
 10. MEASURES SHALL BE TAKEN TO CONTROL DUST AS NECESSARY.
 11. IT SHALL BE THE GRADING CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE SOILS ENGINEER OF WORK IN PROGRESS AND TO COMPLY WITH SPECIFICATIONS SET BY THE SOILS ENGINEER WITH REGARD TO COMPACTION, SURFACE PREPARATION AND PLACEMENT OF FILL.
 12. ALL STUMPS, LIMBS, AND OTHER DEBRIS ARE TO BE REMOVED FROM THE SITE.
 13. ALL DRAINAGE SWALES SHALL BE SODDED.
 14. ALL FILL AREAS, INCLUDING TRENCH BACKFILLS, UNDER BUILDINGS, PROPOSED STORM AND SANITARY SEWER LINES, PUBLIC RIGHT OF WAY AND PAVED AREAS SHALL BE COMPACTED TO 90% OF MAXIMUM DENSITY AS DETERMINED BY THE MODIFIED AASHTO T-180 COMPACTION TEST", (A.S.T.M. D- 1557) UNLESS OTHERWISE REQUIRED IN THE SOILS REPORT FOR THIS PROJECT.

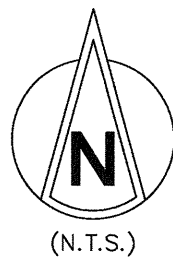
TABLE OF ABBREVIATIONS

NOTE: NOT ALL ABBREVIATIONS USED

AI	AREA INLET	N	NORTH
ASPH	ASPHALT	NE	NORTHEAST
ATG	ADJUST TO GRADE	NW	NORTHWEST
BC	BOTTOM OF CURB ELEVATION	PB	PERMANENT
BFP	BACKFLOW PREVENTER	PG	PAGE
BLDG	BUILDING	POS	PAGES
BM	BENCHMARK	PL	PROPERTY LINE
BOT	BOTTOM	PR	PROPOSED
BS	BOTTOM OF SLOPE ELEVATION	PVC	POLYVINYL CHLORIDE
BW	BOTTOM OF WALL ELEVATION	PWMT	PAVEMENT
C	CURB INLET	R	RADIUS
CMP	CORRUGATED METAL PIPE	RC	REINFORCED CONCRETE PIPE
CO	CLEAN OUT	REC	RECORD
CONC	CONCRETE	ROW	RIGHT OF WAY
DB	DEED BOOK	R/W	RIGHT OF WAY
DIP	DUCTILE IRON PIPE	S	SOUTH
DS	DOWNSPOUT	SE	SOUTHEAST
E	EAST	SF	SQUARE FEET
ELEV	ELEVATION	SURV	SURVEY
EM	ELECTRIC METER	SW	SOUTHWEST
EOP	EDGE OF PAVEMENT	TBR	TO BE REMOVED
ESMT	EASEMENT	TC	TOP OF CURB ELEVATION
EX	EXISTING	TFP	TRANSFORMER PAD
FF	FINISHED FLOOR ELEVATION	TS	TOP OF SLOPE ELEVATION
FL	FLOW LINE ELEVATION	TW	TOP OF WALL ELEVATION
FO	FIBER OPTIC	TYP	TYPICAL
GEN	GENERATOR	UGFO	UNDERGROUND FIBER OPTIC LINE
GI	GRATE TOP INLET	UIP	USE IN PLACE
HC	HANDICAPPED	VCP	VITRIFIED CLAY PIPE
HHE	ELECTRIC HAND HOLE	W	WEST
HTTS	TRAFFIC SIGNAL HAND HOLE		
HHSL	SIGNAL LIGHT HAND HOLE		
ICVR	IRRIGATION CONTROL VALVE RECLAIMED		
MAX	MAXIMUM		
MH	MANHOLE		
MIN	MINIMUM		
MSD	METROPOLITAN ST. LOUIS SEWER DISTRICT		

GENERAL NOTES

1. THE SITEWORK ON THIS PROJECT SHALL MEET OR EXCEED ALL STANDARDS AND SPECIFICATIONS REQUIRED BY THE CITY OF LEE'S SUMMIT.
2. CASCO DIVERSIFIED CORPORATION HAS NOT PERFORMED ANY INVESTIGATION REGARDING UNDERGROUND CONDITIONS, HAZARDOUS WASTES, OR UTILITIES AFFECTING THE SITE SHOWN HEREIN.
3. ALL DIMENSIONS ARE FROM THE FACE OF CURB UNLESS OTHERWISE NOTED.
4. ALL DISTURBED AREAS OUTSIDE OF PAVEMENT AND BUILDING PAD AREAS SHALL RECEIVE 4" OF SUITABLE TOPSOIL. CONTRACTOR SHALL SEED, MULCH, FERTILIZE AND MAINTAIN ALL DISTURBED AREAS OUTSIDE OF PAVEMENT UNTIL SUFFICIENT VEGETATIVE GROWTH HAS BEEN ESTABLISHED PER THE SWPPP. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MEANS AND METHODS REQUIRED TO ESTABLISH PERMANENT SOIL STABILIZATION.
5. ALL SURVEY MONUMENTS DISTURBED DURING CONSTRUCTION SHALL BE REPLACED BY A LICENSED PROFESSIONAL SURVEYOR IN THE STATE OF MISSOURI AT THE CONTRACTOR'S OWN EXPENSE.
6. ALL TRENCHES EXCAVATED UNDERNEATH AREAS TO BE PAVED SHALL BE BACKFILLED WITH COMPACTED GRANULAR MATERIAL AND COMPACTED TO MEET REQUIREMENTS OF THE GEOTECHNICAL REPORT AND CITY OF LEE'S SUMMIT REQUIREMENTS.
7. CONTRACTOR SHALL INSTALL ALL UNDERGROUND PIPING AND CONDUITS PER THE REQUIREMENTS OF THE RESPECTIVE MANUFACTURERS AND THE CITY OF LEE'S SUMMIT.
8. IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, NEITHER THE OWNER NOR THE ENGINEER WILL BE RESPONSIBLE FOR COMPLIANCE WITH ALL LOCAL, STATE, AND FEDERAL SAFETY MEASURES AND REGULATIONS. CONTRACTOR SHALL COMPLY WITH ALL OSHA REGULATIONS AND SAFETY MEETING REQUIREMENTS. THE CONTRACTOR SHALL BE COMPLETELY AND SOLELY RESPONSIBLE FOR JOB SITE CONDITIONS, INCLUDING SAFETY OF ALL PROPERTY AND PERSONS AT ALL TIMES DURING THE PERFORMANCE OF THE WORK. THIS REQUIREMENT APPLIES CONTINUOUSLY AND IS NOT LIMITED TO NORMAL WORKING HOURS. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING, MAINTAINING, AND IMPLEMENTING ALL SAFETY DEVICES AND PRACTICES DURING CONSTRUCTION.
9. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL PUBLIC AND PRIVATE PROPERTY ADJACENT TO THE WORK. CONTRACTOR SHALL EXERCISE DUE CARE AND CAUTION TO AVOID DAMAGE TO SUCH PROPERTY. CONTRACTOR SHALL REPLACE OR RESTORE TO EQUAL OR BETTER CONDITION THAN THE ORIGINAL CONDITION AT THE CONTRACTOR'S OWN EXPENSE. ALL IMPROVEMENTS WITHIN OR ADJACENT TO THE AREA OF WORK WHICH ARE NOT DESIGNATED FOR REMOVAL OR ADJUSTMENT AND WHICH ARE DAMAGED OR REMOVED AS A RESULT OF THE CONTRACTOR'S ACTIONS.
10. CONTRACTOR SHALL CONTINUALLY MONITOR JOB SITE CONDITIONS. CONDITIONS REQUIRING CONSTRUCTION DIFFERENT THAN THAT SHOWN ON ON THE PLANS SHALL BE REPORTED TO THE ENGINEER PRIOR TO PROCEEDING WITH THE AFFECTED WORK.
11. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING PRESENCE AND LOCATIONS (VERTICALLY AND HORIZONTALLY) OF ALL UTILITIES. IN NO WAY DOES THE ENGINEER OR THE OWNER SUGGEST, IMPLY, OR CONFIRM THAT UTILITIES SHOWN ARE INCLUSIVE OF ALL UTILITIES WITHIN THE PROJECT AREA. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING IN PLACE ALL UTILITIES. ANY DAMAGE OR LOSS TO EXISTING UTILITIES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. SHOULD ANY DAMAGE OCCUR AS A RESULT OF THE CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL REPLACE OR REPAIR THE DAMAGES TO THE FULL SATISFACTION OF THE UTILITY OWNER AT THE CONTRACTOR'S OWN EXPENSE. THE CONTRACTOR SHALL AGREE TO DEFEND, INDEMNIFY, AND HOLD HARMLESS THE OWNER AND THE ENGINEER FROM ANY AND ALL DAMAGES OR LOSS.



PERTINENT INFORMATION

PROPERTY ADDRESS: 155 SW M-150 HIGHWAY
ZIP CODE: 64082
MUNICIPALITY: CITY OF LEE'S SUMMIT
STATE: MISSOURI
TOTAL SITE AREA: 1.408 ACRES (61,187± SF)
AREA OF DISTURBANCE: 0.499 ACRES (21,741± SF)
CURRENT ZONING: CP-2 CORRIDOR DEVELOPMENT OVERLAY DISTRICT
INTENDED USE: CP-2 CORRIDOR DEVELOPMENT OVERLAY DISTRICT
PARCEL ID: 70-820-03-02-00-0-00-000

SHEET INDEX

C0.0 - COVER

C1.0 - DEMOLITION PLAN

C2.0 - SITE & UTILITY PLAN

C3.0 - GRADING PLAN

C4.0 - SITE DETAILS

C5.0 - EROSION & SEDIMENT CONTROL PLAN

C5.1 - EROSION & SEDIMENT CONTROL DETAILS

CONSTRUCTION NOTE

ALL CONSTRUCTION SHALL CONFORM TO THE CITY OF LEE'S SUMMIT DESIGN AND CONSTRUCTION MANUAL.

LAND DISTURBANCE NOTE

THE CONTRACTOR SHALL CONTACT THE CITY'S DEVELOPMENT SERVICES ENGINEERING INSPECTORS 48 HOURS PRIOR TO ANY LAND DISTURBANCE WORK: (816) 969-1200

FLOOD ZONE NOTE

ACCORDING TO THE FIRM FLOOD INSURANCE RATE MAP 29095C0532G DATED JANUARY 20, 2017, THIS DEVELOPMENT IS LOCATED IN FLOOD ZONE X. FLOOD ZONE X IS DETERMINED TO BE AN AREA OF MINIMAL FLOOD HAZARD, OUTSIDE THE 0.2% ANNUAL CHANCE FLOOD HAZARD.

TITLE DESCRIPTION

LOT 1, RAINTREE 150 CENTER, A SUBDIVISION IN LEE'S SUMMIT, JACKSON COUNTY, MISSOURI, AS SHOWN ON PLAT ENTITLED MINOR PLAT OF RAINTREE, 150 CENTER, RECORDED APRIL 21, 2004 IN PLAT BOOK 181, PAGE 12 OF THE JACKSON COUNTY, MISSOURI RECORDER OF DEEDS OFFICE.

THIS SURVEY AND LEGAL DESCRIPTION ARE THE SAME AS THAT SHOWN ON A TITLE REPORT PREPARED BY FIRST AMERICAN TITLE INSURANCE COMPANY, FILE NO.: NCS-401470620A-NC, FIRST AMENDMENT, EFFECTIVE DATE: EFFECTIVE DATE: JUNE 26, 2019.

SIGN NOTE

ALL PROPOSED SIGNS SHALL COMPLY WITH THE UDO REQUIREMENTS, AND SIGNS WILL BE APPROVED BY SEPARATE APPLICATION.

OIL AND GAS NOTE

THERE ARE NO OIL AND/OR GAS WELLS PRESENT WITHIN THE SUBJECT PROPERTY PER THE ENVIRONMENTAL REPORT PREPARED BY SOLID GROUND ENVIRONMENTAL DATED MAY 12, 2020.

SURVEY NOTE

THE TOPOGRAPHIC INFORMATION IN THIS PLAN SET IS BASED OFF A SURVEY PROVIDED BY AYLETT SURVEYING & ENGINEERING ON MAY 13, 2020 AND A BOUNDARY SURVEY PROVIDED BY COMMERCIAL DUE DILIGENCE SERVICES ON MARCH 25, 2020.

ACTUAL FIELD CONDITIONS ARE TO BE VERIFIED PRIOR TO COMMENCEMENT OF WORK.

LEGEND OF SYMBOLS

EXISTING	PROPOSED

PROJECT CONTACTS

DEVELOPERS:
EQUITY
4653 TRUJMAN BOULEVARD
HILLIARD, OH 43026
(614) 586-3303
NPALMER@EQUITY.NET

MIDLAND PROPERTIES OF ILLINOIS, LLC
716 WINDSOR ROAD
LOVES PARK, IL 61111
(815) 988-9600
BRENT@MIDLANDGENERALCONTRACTORS.COM

BUILDING DESIGN:
CASCO DIVERSIFIED CORPORATION
12 SUNNEN DR. SUITE 100
ST. LOUIS, MO 63143
(314) 821-1100

CIVIL ENGINEER:
CASCO CIVIL
12 SUNNEN DR. SUITE 100
ST. LOUIS, MO 63143
(314) 821-1100
TOM.BUERK@CASCOCORP.COM

ELECTRIC:
KANSAS CITY POWER & LIGHT
(888) 471-5275

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

GAS:
SPIRE
(816) 756-5252

SANITARY & WATER:
LEE'S SUMMIT WATER UTILITIES
12 SE HAMLEN ROAD
LEE'S SUMMIT, MO 64081
(816) 969-1900

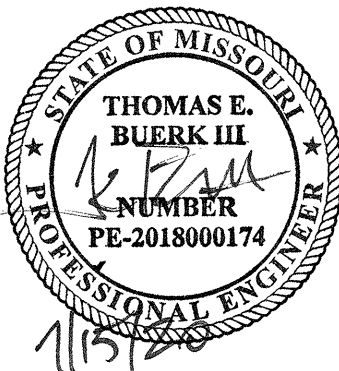
FIRE DEPARTMENT:
LEE'S SUMMIT FIRE STATION 5
3650 SW WINDEMERE ROAD
LEE'S SUMMIT, MO 64062
PHONE

BUILDING RENOVATION
155 SW M-150 HIGHWAY
LEE'S SUMMIT, MO 64082

CONSTR. DOC. & REVISIONS

No.	Description	Date
DP	Development Plan Response	06-17-20
CC	City Comments	06-30-20
DP2	Development Plan Response 2	07-15-20

CASCO DIVERSIFIED CORPORATION
CERTIFICATE OF AUTHORITY
#000613 12/31/21



PROFESSIONAL OF RECORD

Buerk III, Thomas E.
License NO. PE-2018000174
Expiration Date 12/31/20

Drawn By/Checked By: MEB/TEB

Project Number 320488

Permit Date 06-30-20

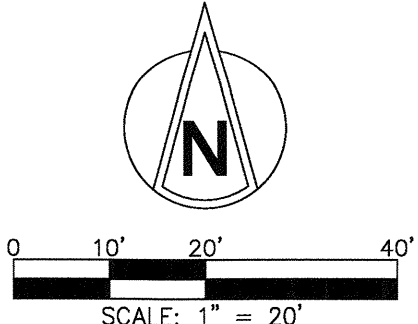
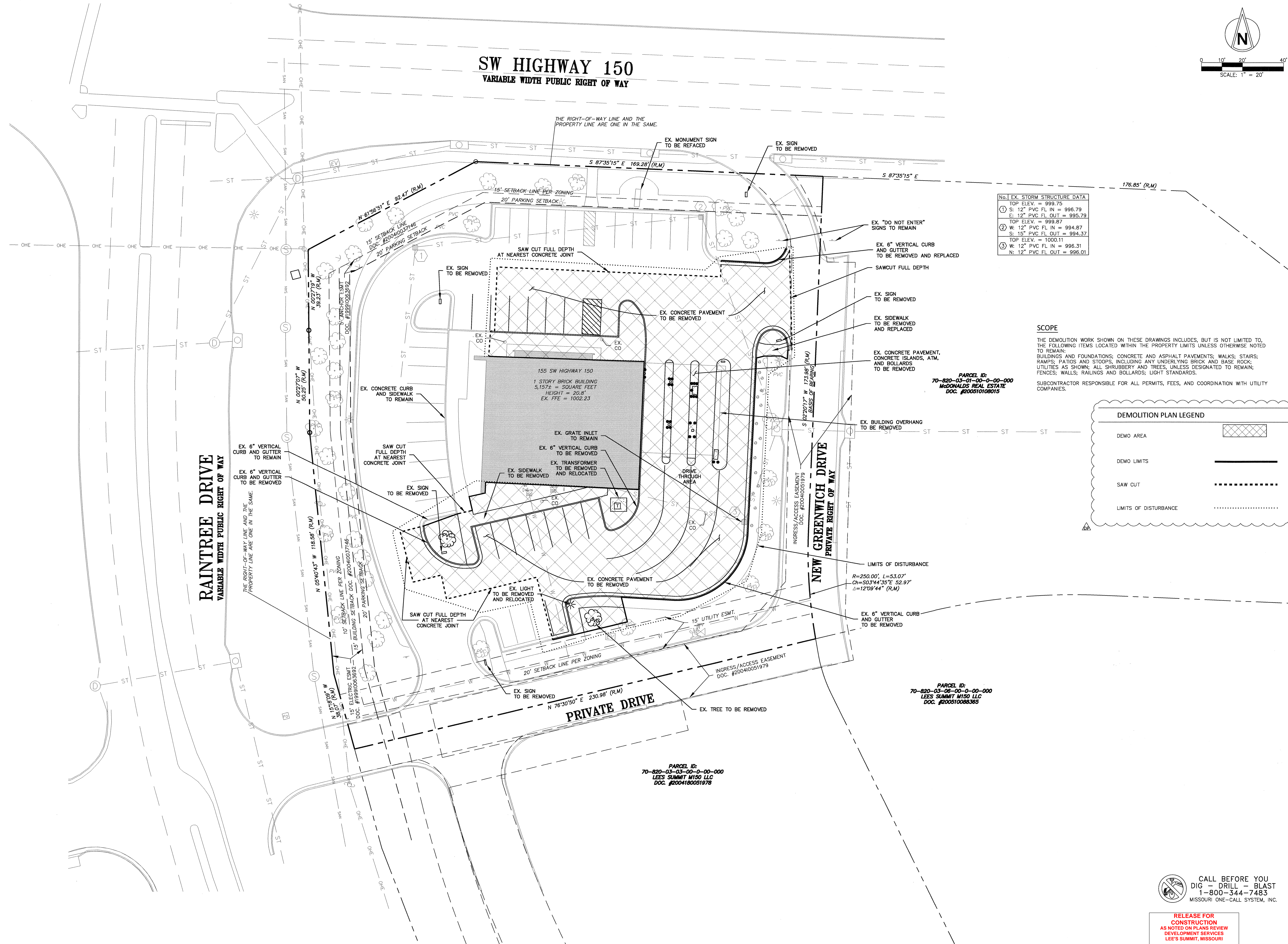


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MISSOURI ONE-CALL SYSTEM, INC.

C0.0

RELEASE FOR
CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI

09/01/2020



No. EX. STORM STRUCTURE DATA	
1	TOP ELEV. = 999.75
2	S: 12\"/>

SCOPE

THE DEMOLITION WORK SHOWN ON THESE DRAWINGS INCLUDES, BUT IS NOT LIMITED TO, THE FOLLOWING ITEMS LOCATED WITHIN THE PROPERTY LIMITS UNLESS OTHERWISE NOTED TO REMAIN:
BUILDINGS AND FOUNDATIONS; CONCRETE AND ASPHALT PAVEMENTS; WALKS; STAIRS; RAMPS; PATIOS AND STOOPS, INCLUDING ANY UNDERLYING BRICK AND BASE ROCK; UTILITIES AS SHOWN; ALL SHRUBBERY AND TREES, UNLESS DESIGNATED TO REMAIN; FENCES; WALLS; RAILINGS AND BOLLARDS; LIGHT STANDARDS.

SUBCONTRACTOR RESPONSIBLE FOR ALL PERMITS, FEES, AND COORDINATION WITH UTILITY COMPANIES.

DEMOLITION PLAN LEGEND

DEMO AREA

DEMO LIMITS

SAW CUT

LIMITS OF DISTURBANCE

A CASCO Diversified Corporation Company
13 Sumner Drive, Suite 100, St. Louis, MO 63143 T: 314.921.1100

BUILDING RENOVATION

155 SW M-150 HIGHWAY

LEE'S SUMMIT, MO 64082

No.	Date
DP	06-17-20

CONSTR. DOC. & REVISIONS

Description	Response
DP Development Plan	

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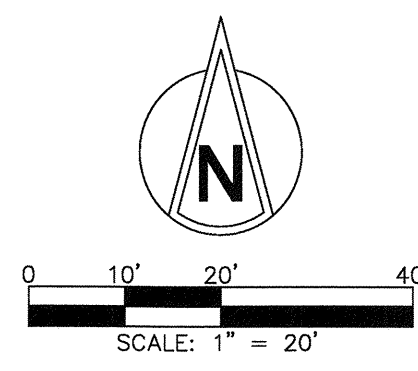
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LEE'S SUMMIT, MISSOURI
09/01/2020

**DEMOLITION
PLAN**

C1.0



SW HIGHWAY 150
VARIABLE WIDTH PUBLIC RIGHT OF WAY

PAVEMENT LEGEND	
EX. CONCRETE PAVEMENT	
PR. CONCRETE PAVEMENT	
EX. CONCRETE SIDEWALK	
PR. CONCRETE SIDEWALK	
SAW CUT	

WATER METER NOTE

PROPOSED 2" WATER LINE TO STUB IN FROM EXISTING 8" WATER MAIN LINE, PROPOSED 2" WATER LINE TO ROUTE TO PROPOSED 1.5" WATER METER, THEN ROUTE FROM WATER METER TO ENTER BUILDING VIA 2" WATER LINE.

WATER LINE NOTE

CONTRACTOR TO VERIFY EXISTING WATER LINE AND WATER MAIN LOCATION PRIOR TO CONSTRUCTION.

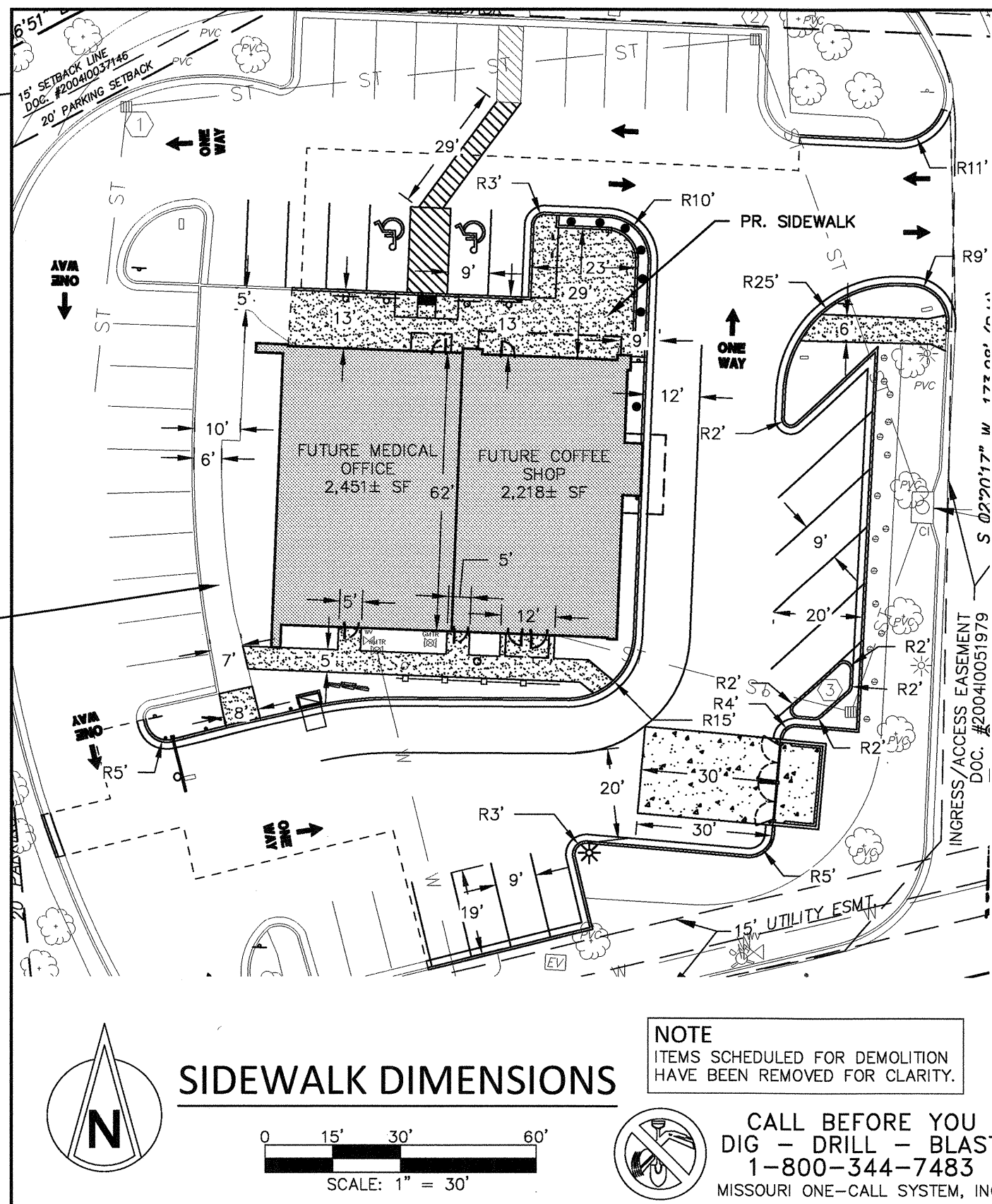
PROPOSED 2" WATER LINE AND PROPOSED 3/4" HOSE BIB LINE SHALL BE TYPE "K" SOFT COPPER, COMPLYING WITH ASTM B 88, IN ACCORDANCE TO CITY OF LEE'S SUMMIT, MISSOURI STANDARD SPECIFICATIONS, SECTION 3900 WATER MAINS, PARAGRAPH 3901.R.

DOWNSPOUT NOTE

4" PVC STORM PIPE FROM PROPOSED DOWNSPOUT TO DISCHARGE AT FLOWLINE EQUAL TO CURB FLOWLINE. MIN 2% SLOPE.

SITE DATA:

ADDRESS:	155 SW M-150 HWY LEE'S SUMMIT, MO 64082
SITE AREA:	1.405 ACRES
CURRENT ZONING:	CP-2 CORRIDOR DEVELOPMENT OVERLAY DISTRICT
PROPOSED ZONING:	CP-2 CORRIDOR DEVELOPMENT OVERLAY DISTRICT
PARKING REQ'D:	MEDICAL OFFICE: 5 SPACES PER 1,000 SF OF GFA. 2,451 SF/1,000 = 2.5 x 5 = 12 SPACES RESTAURANT (FAST FOOD AND SIT-DOWN): 14 SPACES PER 1,000 SF OF GFA. 2,218 SF/1,000 = 2.2 x 14 = 31 SPACES
TOTAL SPACES REQ'D:	43 SPACES
HC SPACES REQ'D:	1 STANDARD + 1 VAN ACCESSIBLE
PARKING PROVIDED:	38 SPACES + 2 HC SPACES = 40 SPACES
IMPERVIOUS AREA:	0.821 ACRES (35,777± SF)
FLOOR AREA RATIO:	4,669 SF / 61,187 SF = 0.076



NOTE
ITEMS SCHEDULED FOR DEMOLITION
HAVE BEEN REMOVED FOR CLARITY.

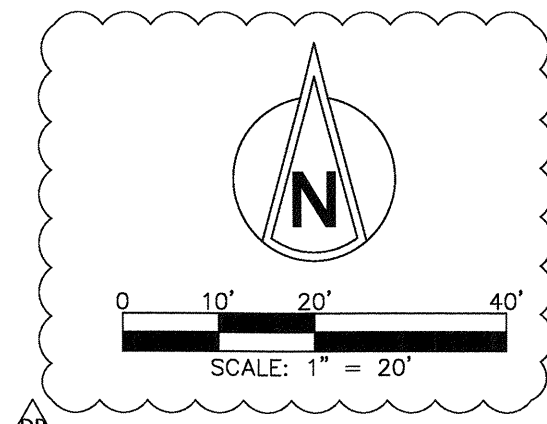
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SITE & UTILITY
PLAN

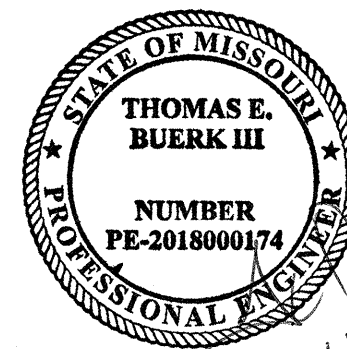
C2.0



BUILDING RENOVATION
155 SW M-150 HIGHWAY
LEE'S SUMMIT, MO 64082

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GRADING PLAN

NOTE
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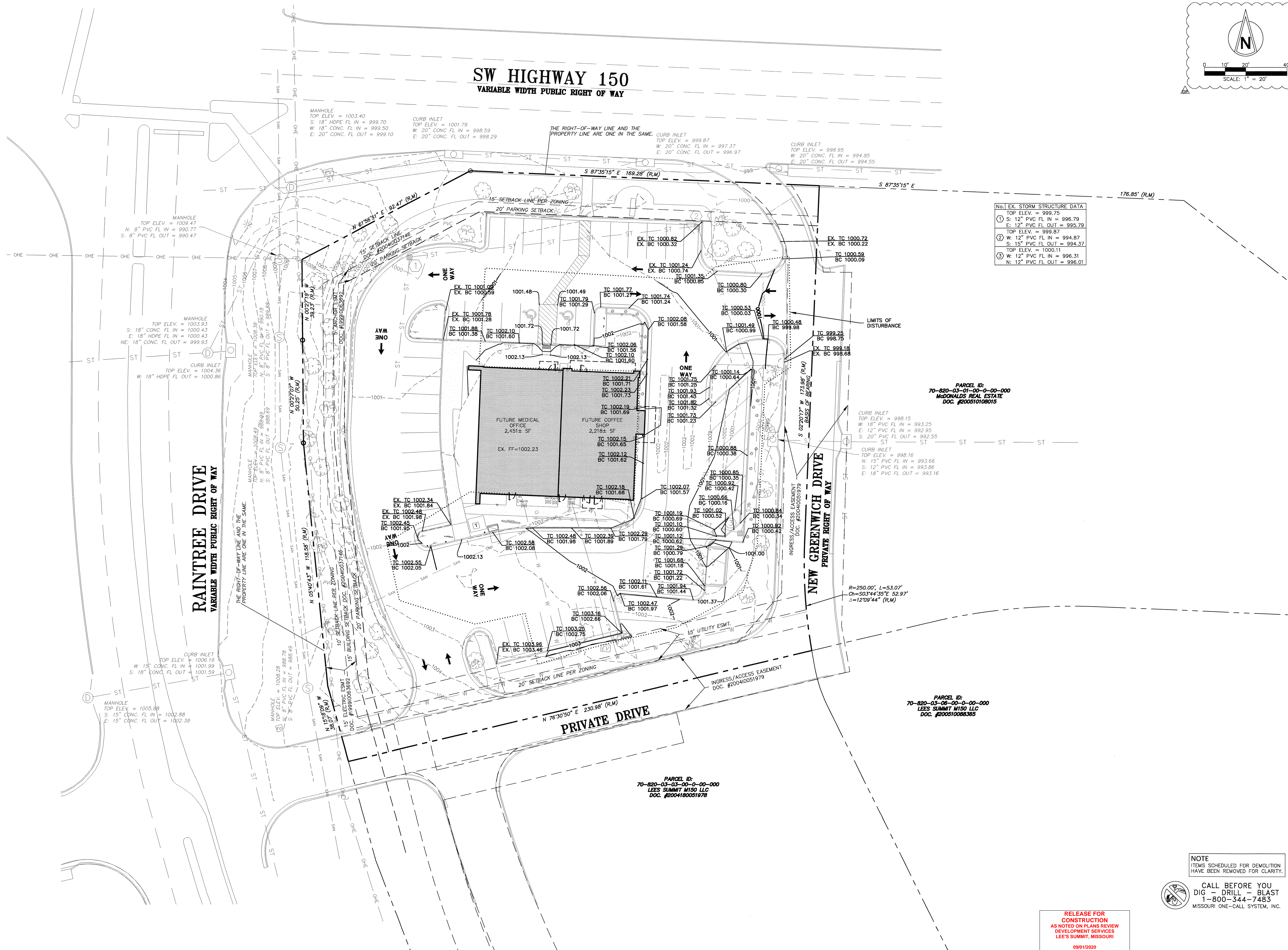


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LEE'S SUMMIT, MISSOURI

09/01/2020

SW HIGHWAY 150 VARIABLE WIDTH PUBLIC RIGHT OF WAY

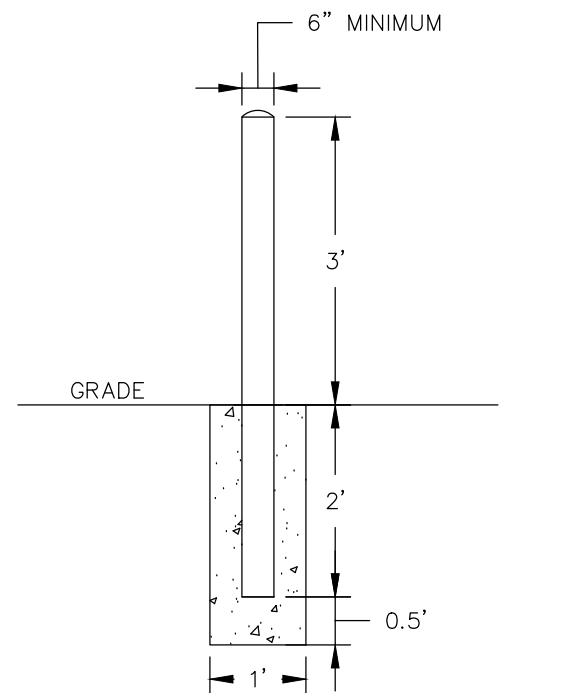
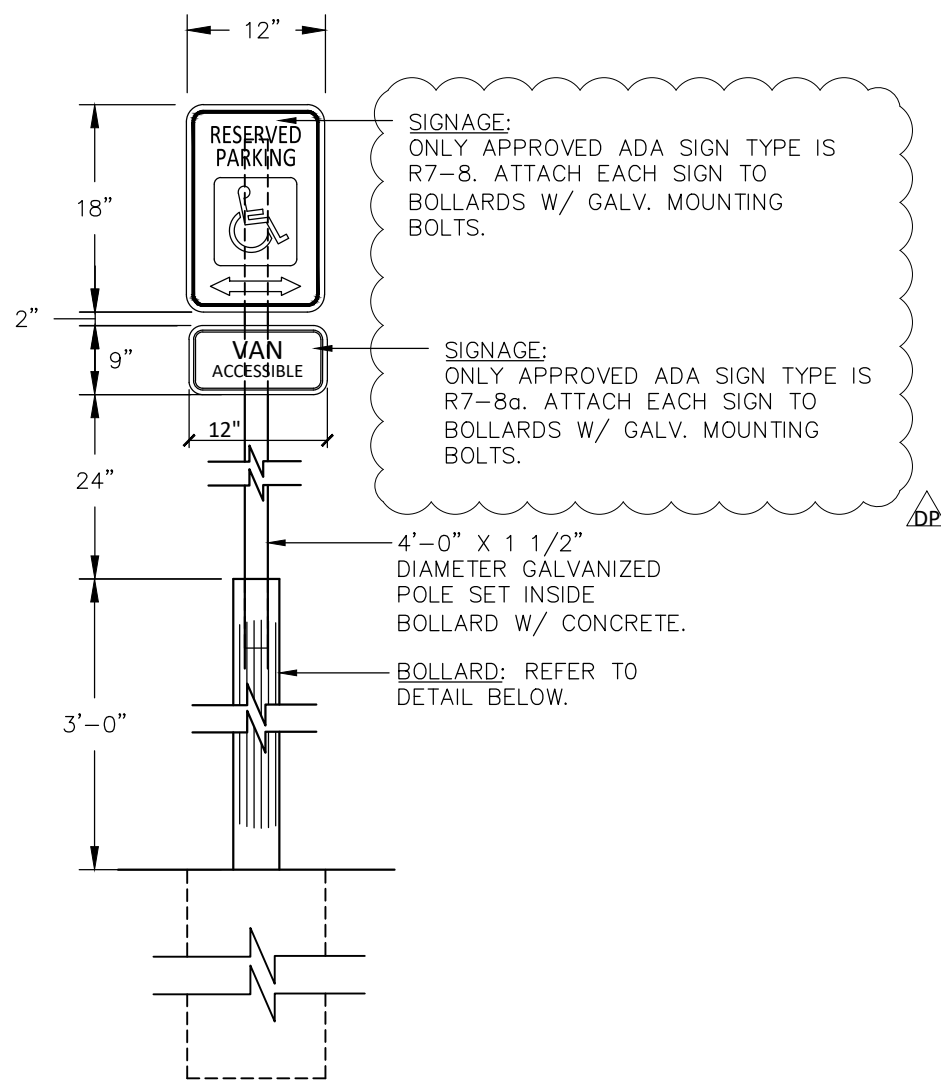


No.	EX. STORM STRUCTURE DATA
①	S: 12" PVC FL IN = 996.79 E: 12" PVC FL OUT = 995.79 TOP ELEV. = 999.87
②	W: 12" PVC FL IN = 994.87 S: 15" PVC FL OUT = 994.37 TOP ELEV. = 1000.11
③	W: 12" PVC FL IN = 996.31 N: 12" PVC FL OUT = 996.01

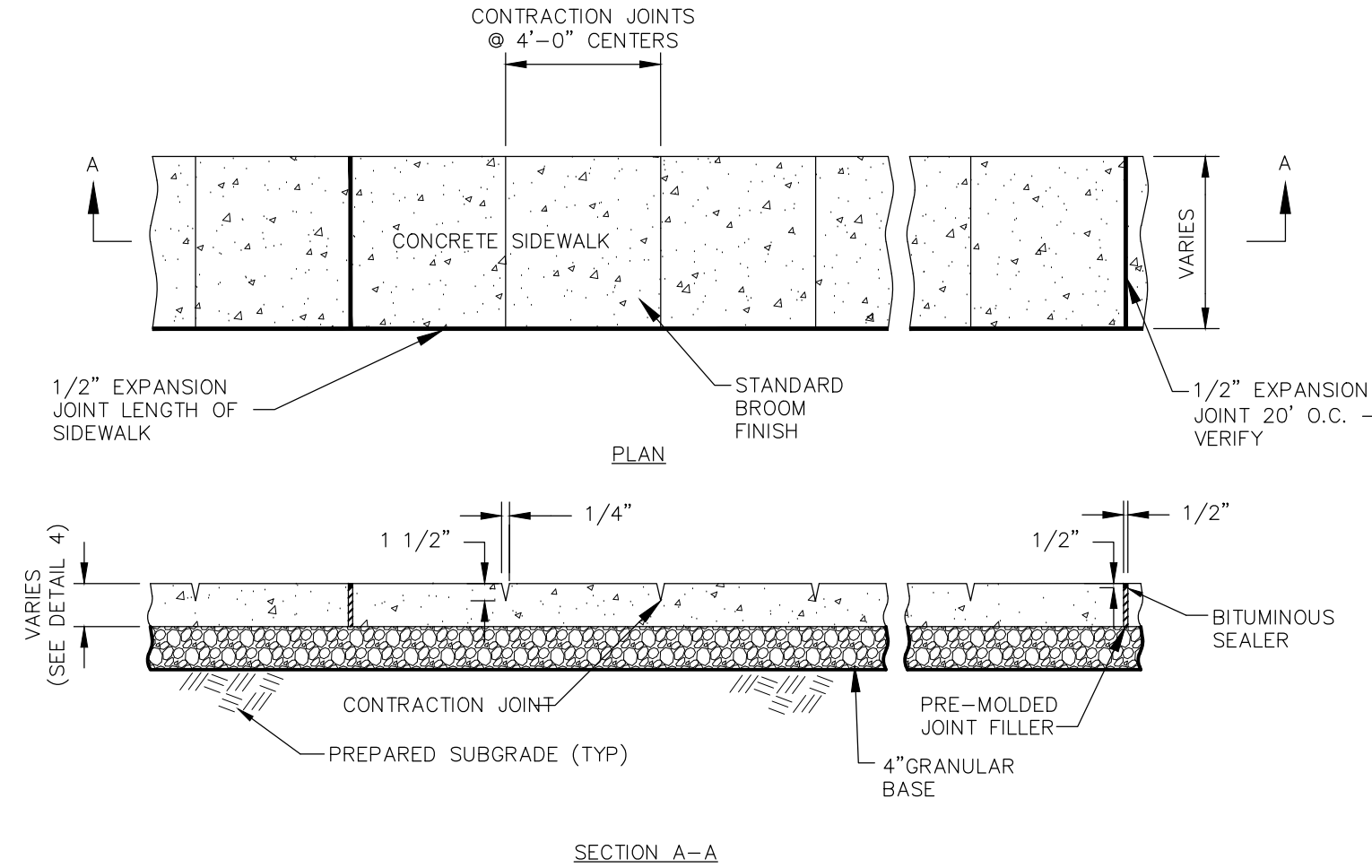
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McDONALD'S REAL ESTATE
DOC. #200510108015

PARCEL ID:
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LEES SUMMIT M150 LLC
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LEES SUMMIT M150 LLC
DOC. #2004180051978



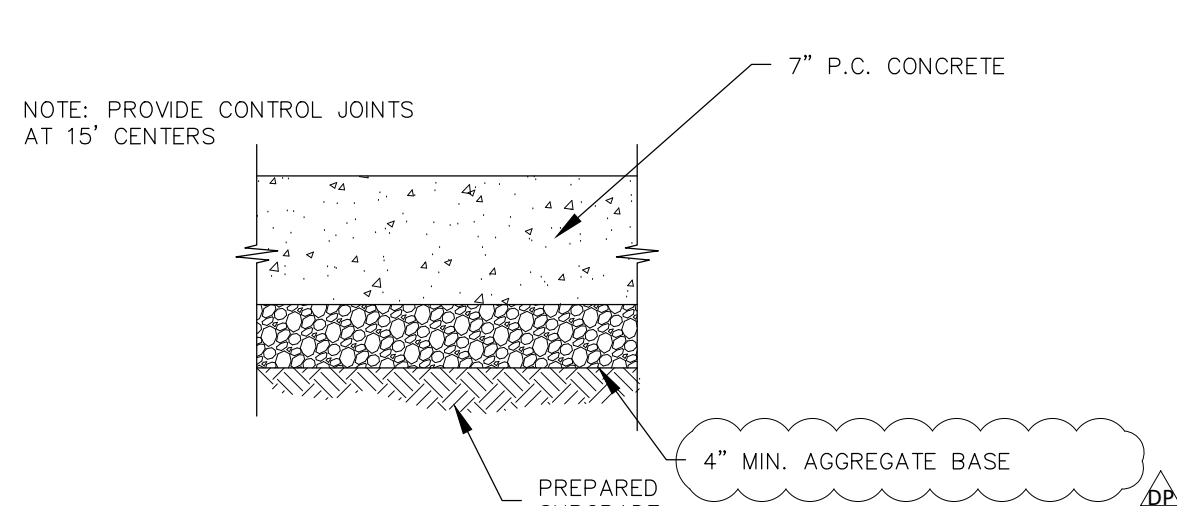
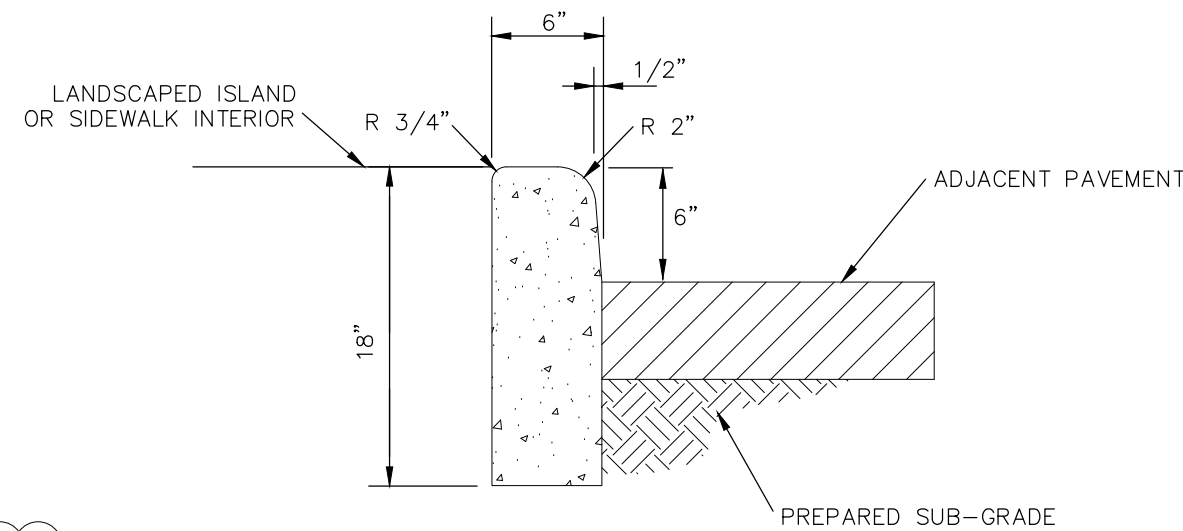
NOTE
BOLLARDS MUST BE STEEL PIPE (6" MINIMUM) AND FILLED WITH CONCRETE.



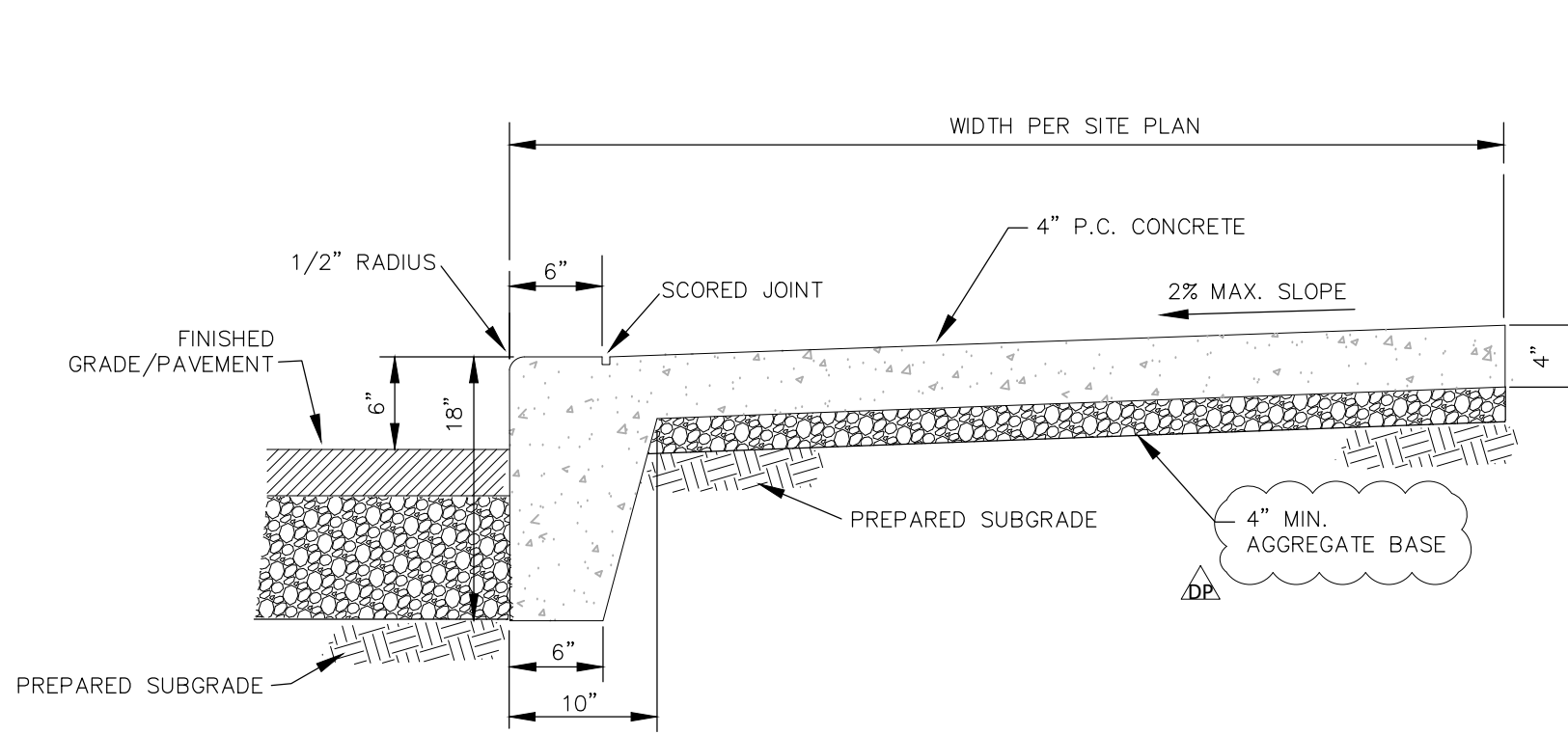
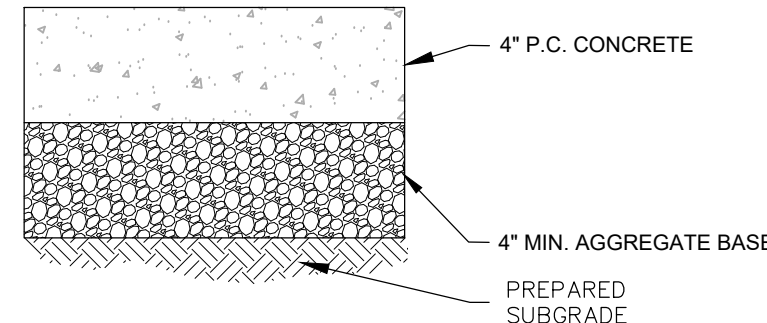
2 TYPICAL SLAB JOINT DETAILS

SUBGRADE PREPARATION NOTE

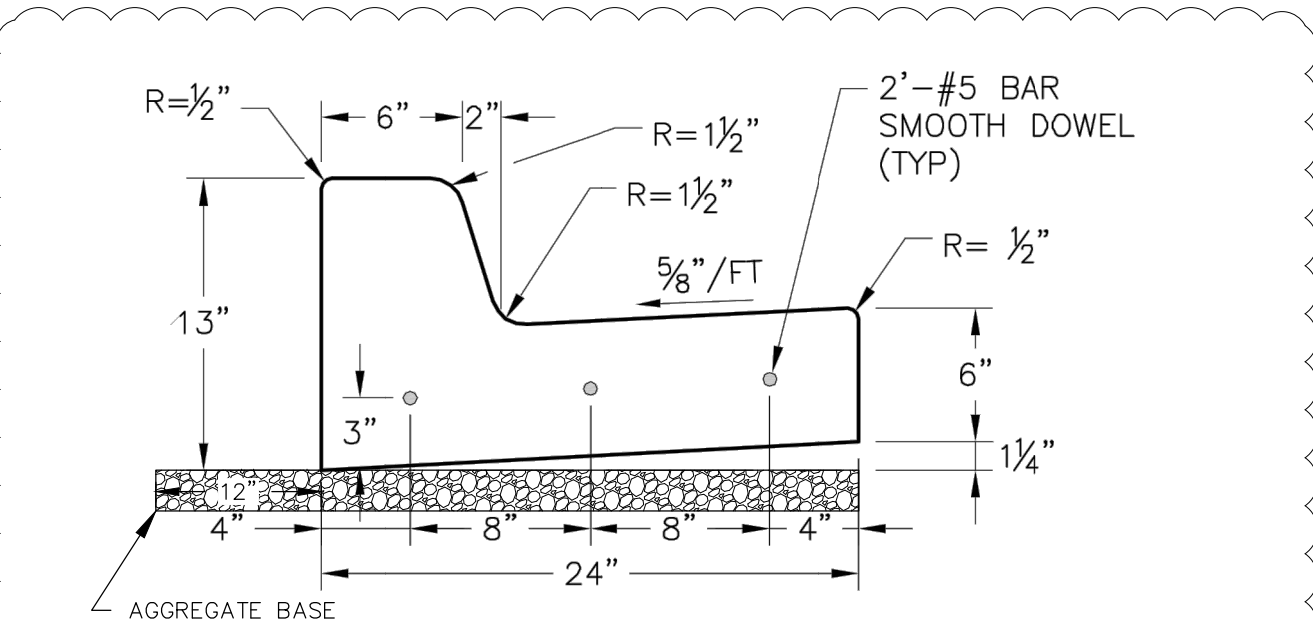
ALL EXPOSED AND/OR DISTURBED GRANULAR BASE AREAS SHALL BE COMPACTED TO A MINIMUM OF 95% OF OPTIMUM DENSITY IN ACCORDANCE W/ASTM D 1557 AT OPTIMUM MOISTURE CONTENT AND TO A MINIMUM DEPTH OF 8" - ALL SUBGRADE SOIL AREAS EXPOSED BY EXCAVATIONS AND GRADING SHALL BE COMPACTED TO A MINIMUM OF 95% OF OPTIMUM DENSITY IN ACCORDANCE W/ASTM D 1557 AT OPTIMUM MOISTURE CONTENT AND TO A MINIMUM DEPTH OF 12" - FILL WHERE REQUIRED SHALL BE PLACED IN LIFTS NOT TO EXCEED 8" LOOSE MEASURE AND SHALL BE COMPACTED AS OUTLINED ABOVE - THE ON SITE TESTING COMPANY SHALL PROVIDE TESTING AND INSPECTION OF THE SOIL WORK PRIOR TO PLACING CONCRETE



4 CONCRETE SIDEWALK DETAIL



5 COMBINATION CURB & SIDEWALK DETAIL



- NOTES:**
- ALL CONCRETE SHALL MEET THE CONCRETE MIX REQUIREMENTS IN DESIGN AND CONSTRUCTION MANUAL LS SECTION 2604.2.A.
 - ALL CONSTRUCTION MATERIALS AND METHODS OF CONSTRUCTION SHALL BE IN ACCORDANCE WITH LOCAL MUNICIPAL ORDINANCES.
 - ANY UNSUITABLE SOIL (AS DETERMINED BY SOILS ENGINEER) BELOW STRUCTURE SHALL BE REMOVED AND REPLACED WITH SELECT EARTHEN MATERIAL COMPACTED IN PLACE WITH VIBRATORY TAMPER.
 - PROVIDE 1/2" EXPANSION JOINTS AT 20' CENTERS.

SPECIFICATIONS

NOTES

- 4" plain end inlet/outlet
- Unit weight - w/composite covers: 130 lbs.; w/cast iron covers: 210 lbs. (For wet weight add 10.41 lbs.)
- Maximum operating temperature: 150° F continuous
- Capacities - Liquid: 125 gal; Grease: 653 lbs. Solids: 19.2 gal.
- Built-in Flow control. For series installations, only install flow control on the first unit in the series if necessary.
- For gravity drainage applications only.
- Do not use for pressure applications.
- Cover placement allows full access to tank for proper maintenance.
- Vent not required unless per local code.
- Engineered inlet and outlet diffusers with inspection ports are removable to inspect / clean piping. For series installations, the top of the inlet diffuser on the first unit in the series must be sealed.
- Integral air relief / Anti-siphon / Sampling access.
- Fixed outlet models (-FO) have outlet permanently welded at the factory in the straight-through (S) position.

DIFFUSION FLOW TECHNOLOGY

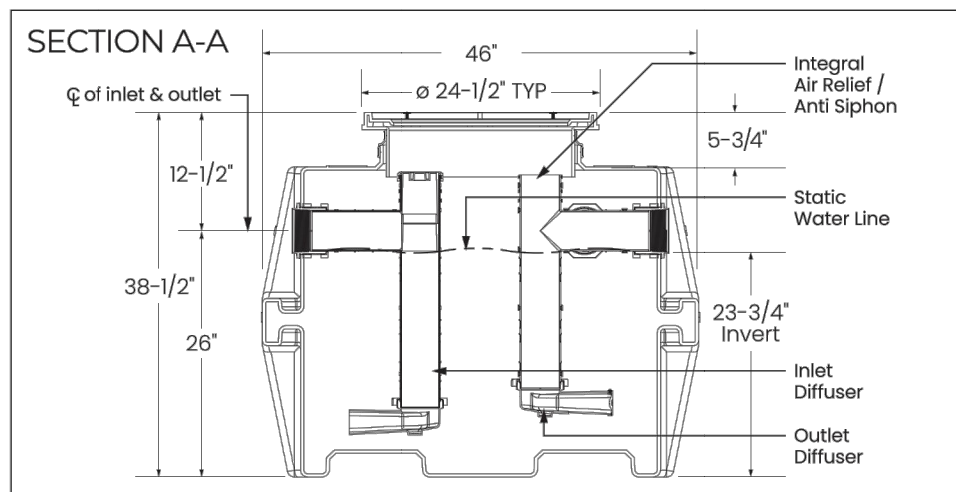
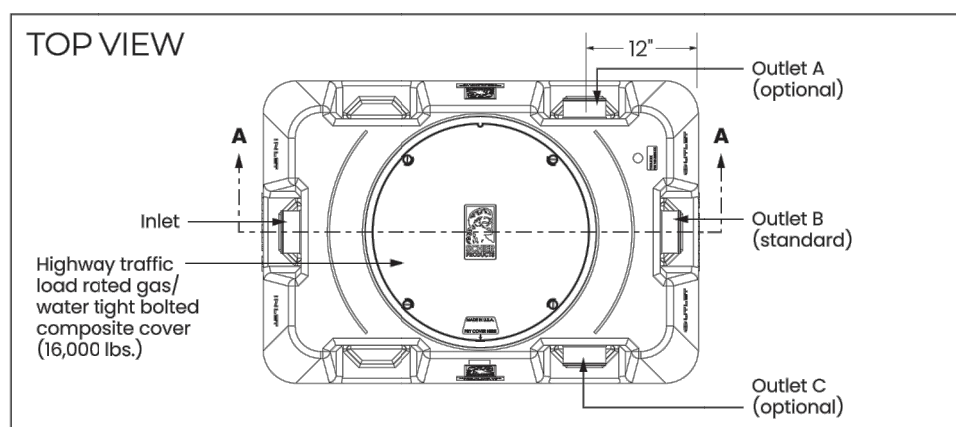
The inlet diffuser splits influent into three paths, creating laminar flow and utilizing the entire liquid volume of the tank for efficient grease separation. The collated openings greatly reduce effluent turbulence. The effluent enters the main chamber without disturbing the existing grease or sediment layers. The integral air relief / anti-siphon in the top of the outlet diffuser allows pressure stabilization within the unit during operation. The bottom of the outlet diffuser allows only effluent which is free of grease to exit the tank. It can easily be attached to any of the three outlets provided to ease job site piping layouts.

ENGINEER SPECIFICATION GUIDE

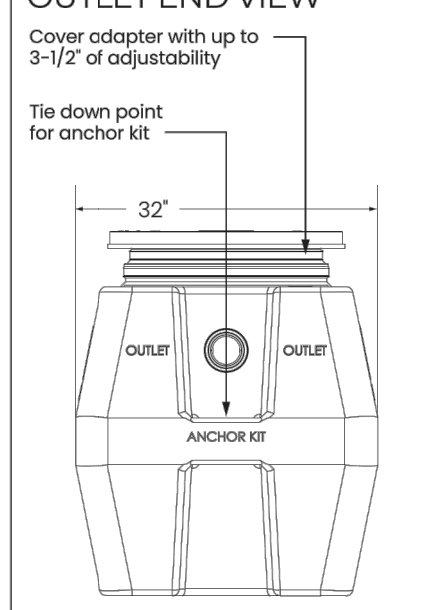
Schier Great Basin™ grease interceptor model # GB-75 shall be lifetime guaranteed and made in USA of seamless, rotationally-molded polyethylene. Interceptor shall be furnished for above or below grade installation. Interceptor shall be certified to ASME A112.14.3 (type C) and CSA B481, with field adjustable riser system, built-in flow control and three outlet options. Interceptor flow rate shall be 75 GPM. Interceptor grease capacity shall be 653 lbs. Cover shall provide water/gas-tight seal and have minimum 16,000 lbs. load capacity.

CERTIFIED PERFORMANCE

Great Basin hydromechanical grease interceptors are third party performance-tested and listed by IAPMO to ASME #A112.14.3 and CSA B481 grease interceptor standards and greatly exceed requirements for grease separation and storage. They are compliant to the Uniform Plumbing Code and the International Plumbing Code.



OUTLET END VIEW



Rated Grease Capacities for Units Piped in Series

No. of Units in Series	100 GPM	Removal Efficiency
		96.6% 99%*
2	1,522 lbs.	861 lbs.
3	2,175 lbs.	1,598 lbs.
4	3,044 lbs.	2,335 lbs.
5	3,897 lbs.	3,072 lbs.
6	4,566 lbs.	3,809 lbs.
7	5,219 lbs.	4,546 lbs.
8	6,088 lbs.	5,283 lbs.

Units piped in series are certified to ASME A112.14.3 (Type C) and CSA B481, and include an internal flow control. External flow control with vent not required. Testing was performed on a series installation of 2 GB-75 units, capacities for more than 2 units piped in series were calculated using the results of the 2-series test.

* Satisfies Miami DERM 99% efficiency requirements



SCHIER
LIFETIME GUARANTEED GREASE INTERCEPTORS

MODEL NUMBER: **GB-75**

DESCRIPTION: 75 GPM Polyethylene Grease Interceptor

PART #: 4045-001-02

DWG BY: B. Karrer

DATE: 4/28/2020

REV:

ECG:

9501 Woodend Road | Edwarsville, KS 66311 | Tel: 913-951-3300 | www.schierproducts.com

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8 GREASE TRAP DETAIL

CONSTR. DOC. & REVISIONS			
No.	Description	Date	
DP	Development/Plan Response	06-17-20	
CC	City Comments	06-30-20	

CASCO DIVERSIFIED CORPORATION
CERTIFICATE OF AUTHORITY
#000613 12/31/21



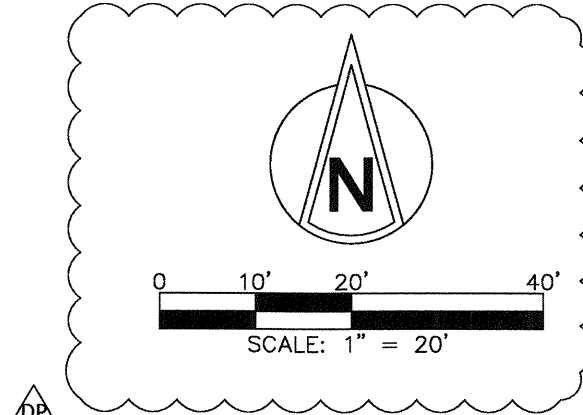
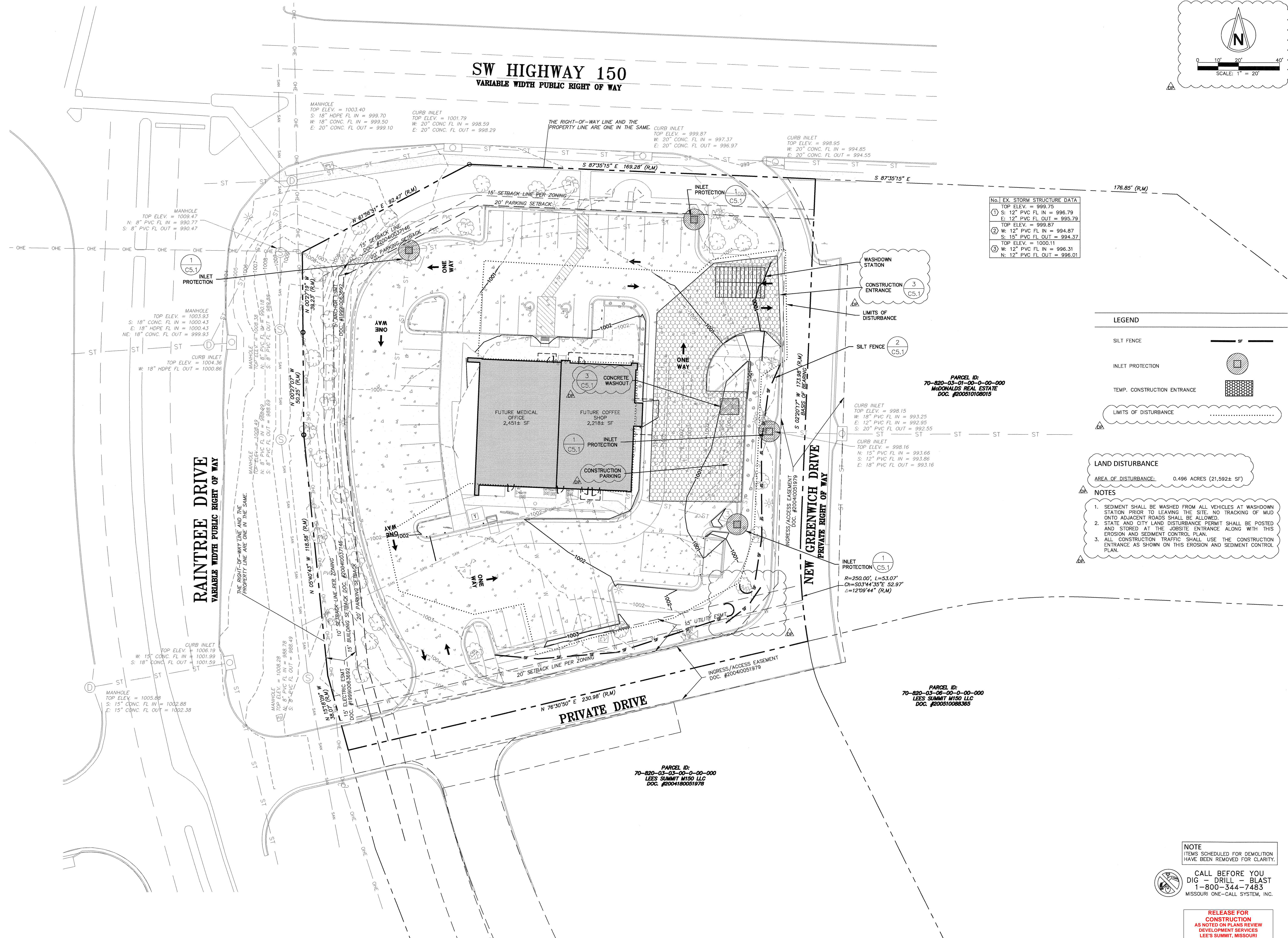
06/30/20
PROFESSIONAL OF RECORD
Burk III, Thomas E.
License NO. PE-2018000174
Expiration Date 12/31/20

Drawn By/Checked By: MEB/TEB
Project Number 320488
Permit Date 06-30-20

SITE DETAILS

RELEASE FOR
CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
09/01/2020

C4.0



No.	EX.	STORM	STRUCTURE	DATA
1	S	12" PVC	FL IN = 996.79 FL OUT = 995.79	
2	W	12" PVC	FL IN = 994.87 FL OUT = 994.37	
3	W	12" PVC	FL IN = 996.31 FL OUT = 996.01	

LEGEND	
SILT FENCE	
INLET PROTECTION	
TEMP. CONSTRUCTION ENTRANCE	
LIMITS OF DISTURBANCE	

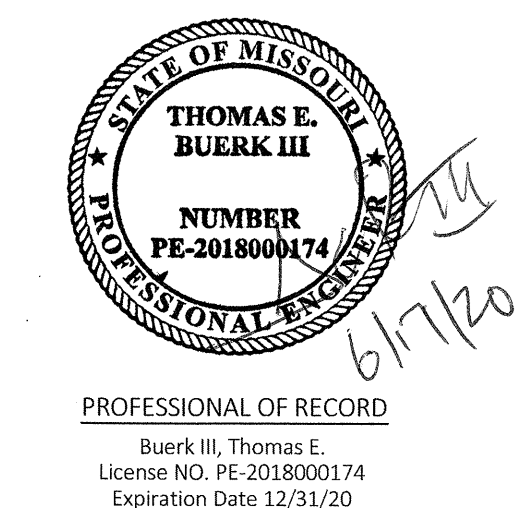
LAND DISTURBANCE
AREA OF DISTURBANCE: 0.496 ACRES (21,592± SF)

- NOTES
- SEDIMENT SHALL BE WASHED FROM ALL VEHICLES AT WASHDOWN STATION PRIOR TO LEAVING THE SITE. NO TRACKING OF MUD ONTO ADJACENT ROADS SHALL BE ALLOWED.
 - STATE AND CITY LAND DISTURBANCE PERMIT SHALL BE POSTED AND STORED AT THE JOBSITE ENTRANCE ALONG WITH THIS EROSION AND SEDIMENT CONTROL PLAN.
 - ALL CONSTRUCTION TRAFFIC SHALL USE THE CONSTRUCTION ENTRANCE AS SHOWN ON THIS EROSION AND SEDIMENT CONTROL PLAN.

BUILDING RENOVATION
155 SW M-150 HIGHWAY
LEE'S SUMMIT, MO 64082

No.	Description	Date
CONSTR. DOC. & REVISIONS		06-17-20
DP	Development Plan Response	

CASCO DIVERSIFIED CORPORATION
CERTIFICATE OF AUTHORITY
#000613 12/31/21



Drawn By/Checked By: MEB/TEB
Project Number: 320488
Permit Date: 06-17-20

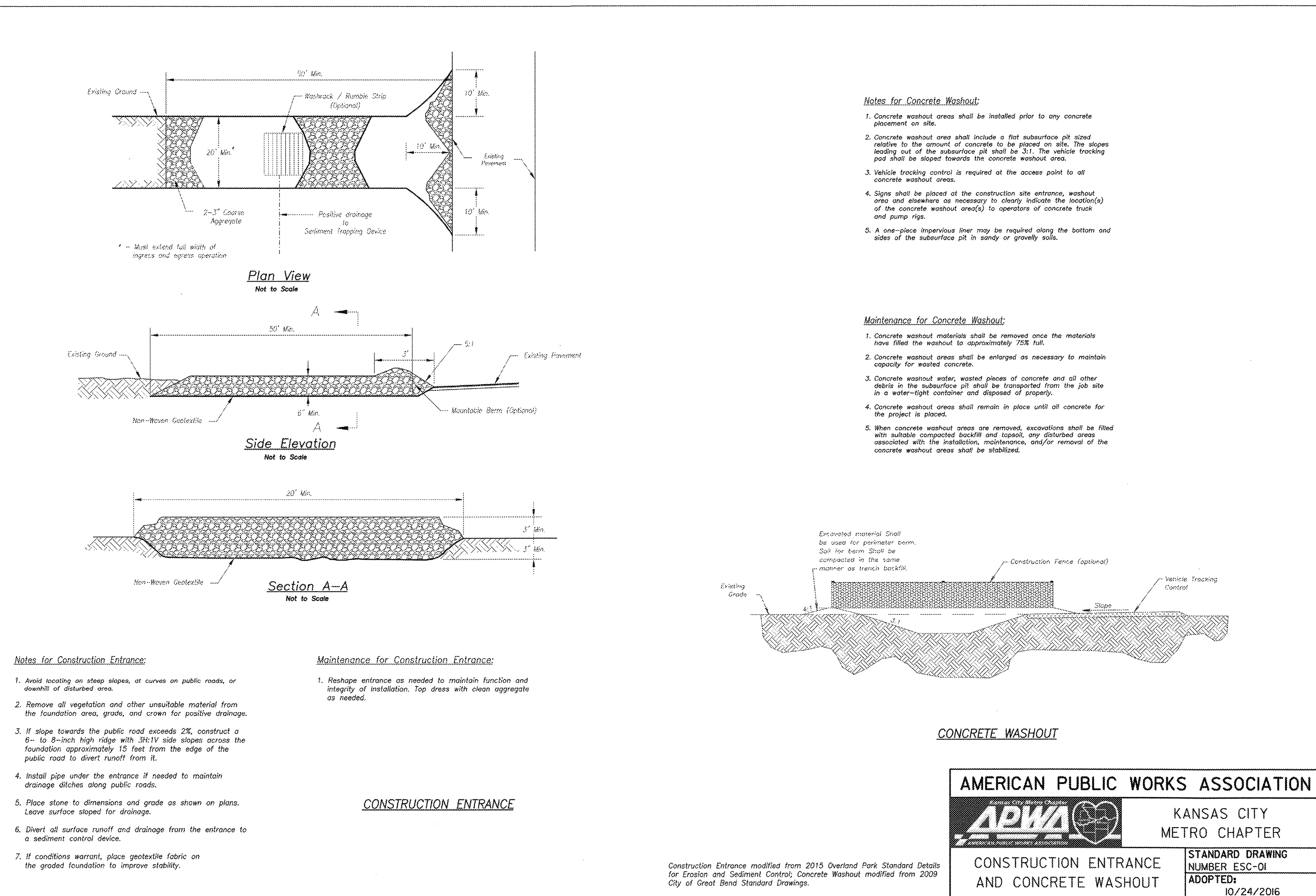
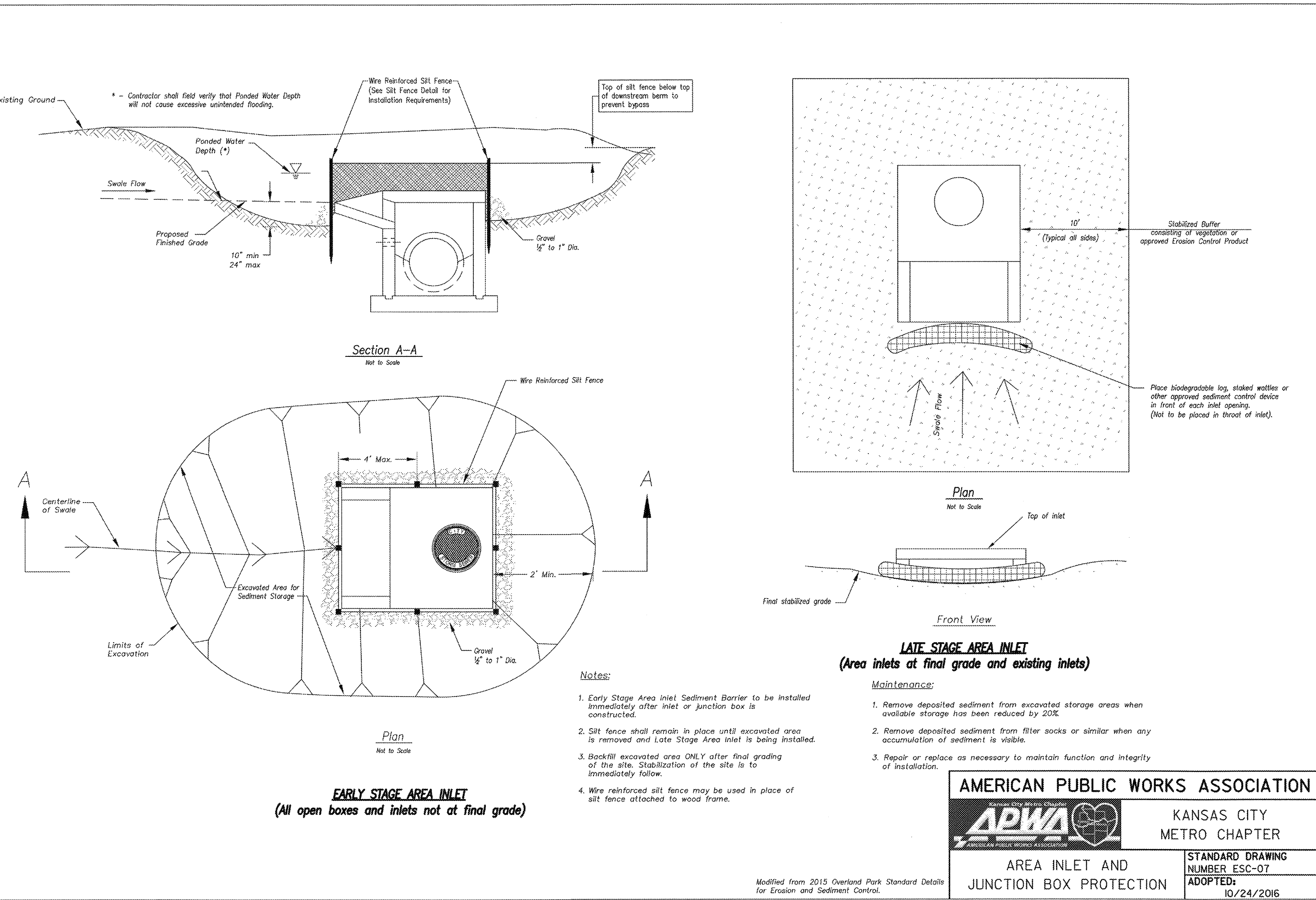
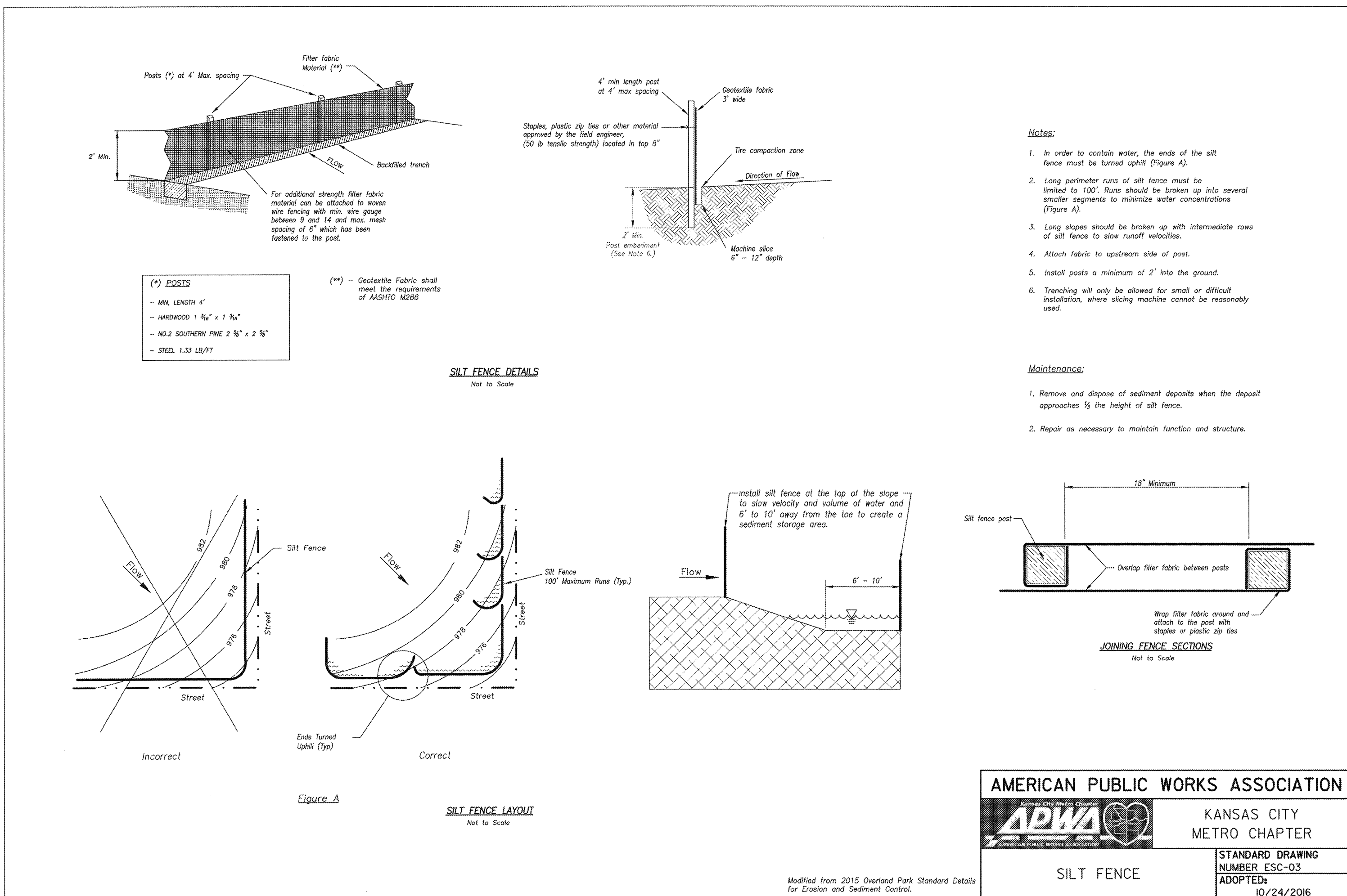
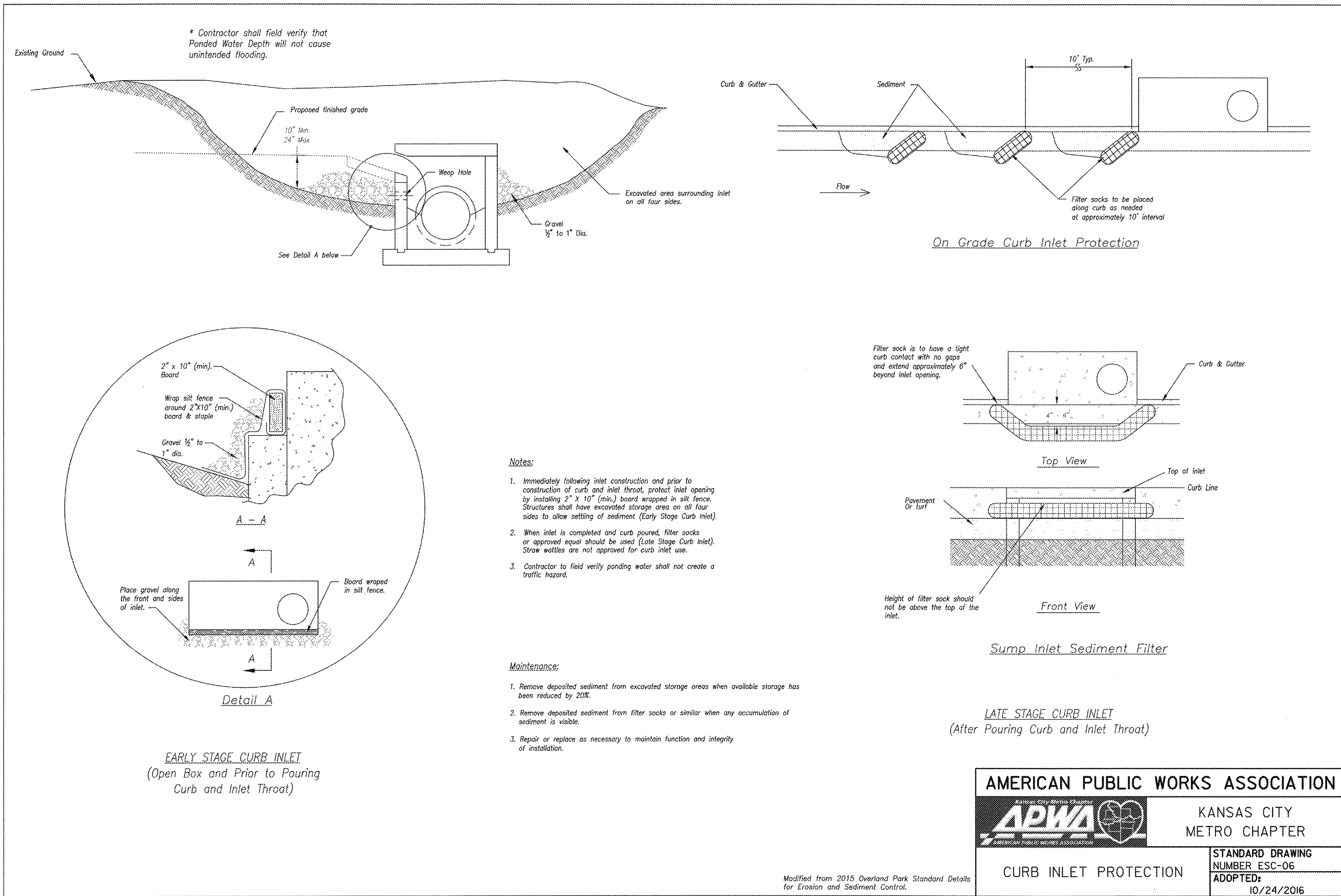
EROSION & SEDIMENT CONTROL PLAN

C5.0

NOTE
ITEMS SCHEDULED FOR DEMOLITION
HAVE BEEN REMOVED FOR CLARITY.

CALL BEFORE YOU
DIG - DRILL - BLAST
1-800-344-7483
MISSOURI ONE-CALL SYSTEM, INC.

RELEASE FOR
CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
09/01/2020



2
C5.1
SILT FENCE DETAIL
NO SCALE

3
C5.1
CONSTRUCTION ENTRANCE & CONCRETE WASHOUT DETAIL
NO SCALE

RELEASE FOR
CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
09/01/2020