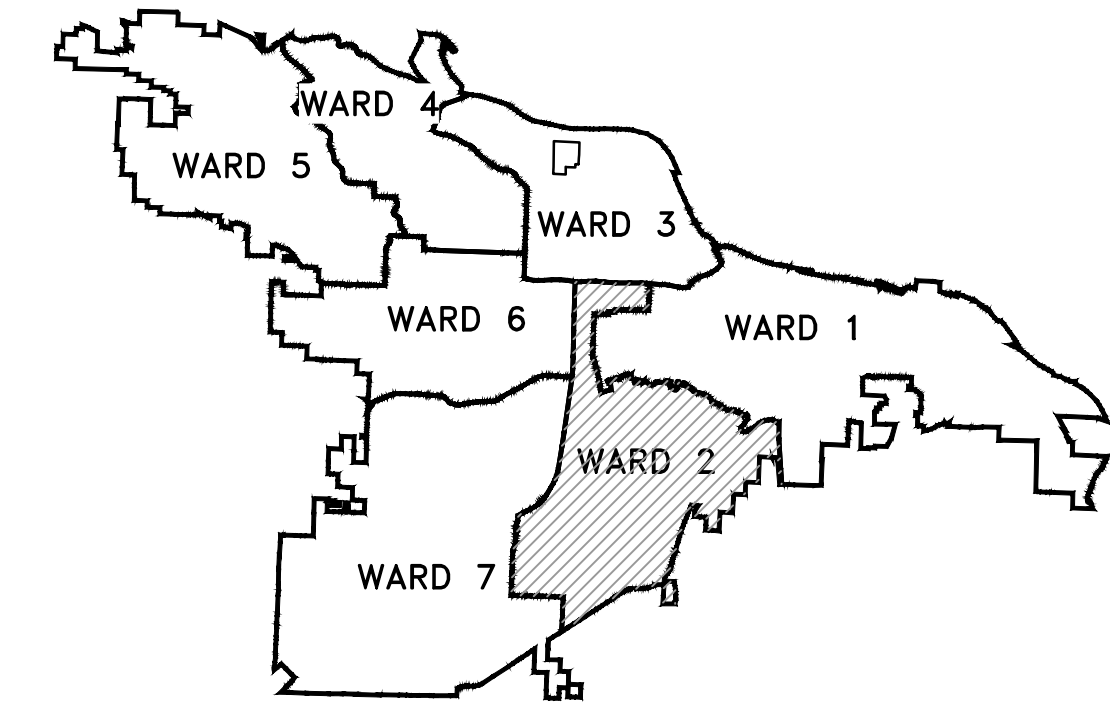


# Project 02-17-DR-65

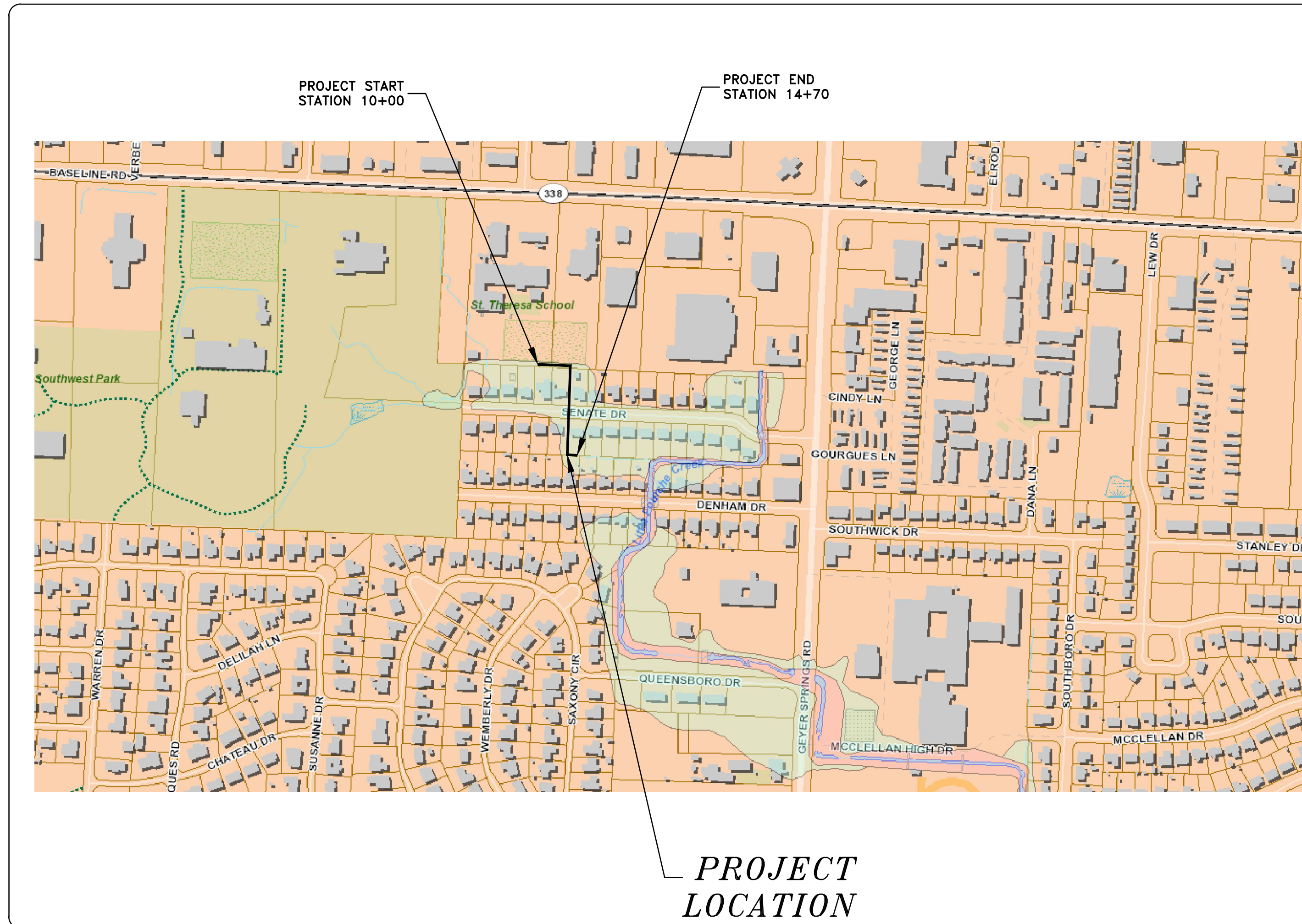
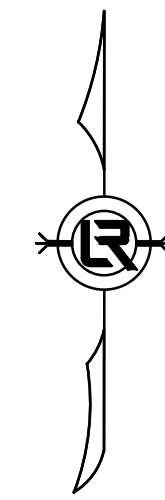
## SENATE DRIVE

### PROJECT LOCATION



PROJECT LOCATION – WARD 2

SHEET NO.	TITLE
C1	COVER SHEET
C2	LEGEND & QUANTITIES
C3	PLAN & PROFILE
C4	TYPICAL SECTION & SPECIAL DETAILS
C5	FIELD TIES / LAYOUT SHEET
C6	EROSION CONTROL PHASE 1
C7	EROSION CONTROL PHASE 2
C8	EROSION CONTROL PHASE 3
C9	PROPERTY OWNERSHIP MAP



PROJECT LOCATION



**2019-2021**  
**BOND PROGRAM**

DEPARTMENT OF PUBLIC WORKS  
CIVIL ENGINEERING  
701 WEST MARKHAM STREET  
LITTLE ROCK, ARKANSAS 72201

60%  
SUBMITTAL



Know what's below.  
Call before you dig.

REVISIONS DATE


CITY OF LITTLE ROCK, ARKANSAS  
SENATE DRIVE DRAINAGE IMPROVEMENTS

COVER SHEET

DEPARTMENT OF PUBLIC WORKS  
CIVIL ENGINEERING  
701 W. MARKHAM  
LITTLE ROCK, ARKANSAS 72201



SEAL

DRAWN BY  
JWM  
DESIGNED  
KLF  
CHECKED  
KLF  
DATE  
8/9/19  
SCALE  
N.T.S.

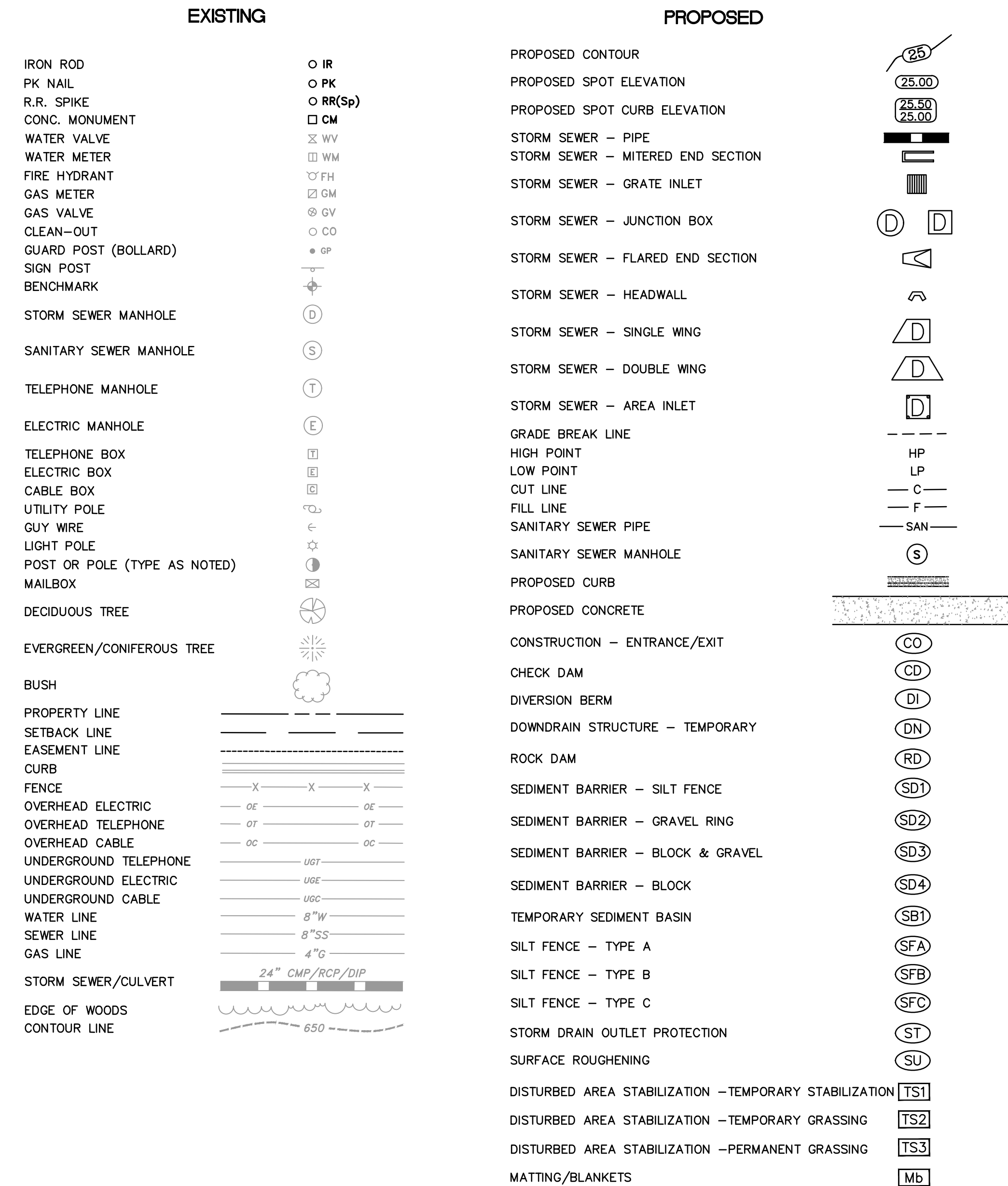
PROJECT NO.  
CLR 02-17-DR-65

SHEET NO.  
C1

FTN ASSOCIATES LTD.  
LITTLE ROCK, AR



<b>Senate Drive Drainage Improvements</b>			
<b>Conceptual Design (60%)</b>			
<b>August 9, 2019</b>			
ITEM #	ITEM DESCRIPTION	UNIT	QUANTITY
<b>Senate Drive Drainage Improvements</b>			
2.01	Site Preparation, Including Mobilization	LS	1
2.02	Clearing and Grubbing Trees	LS	1
2.03	Concrete Wall Removal and Disposal	LF	130
2.04	Box Culvert Removal and Disposal	EA	1
2.05	Curb Removal and Disposal	LF	64
2.06	Asphalt Slab Removal and Disposal	SY	90
3.01	Unclassified Excavation	CY	400
3.06	Borrow Material	CY	36
4.01	Aggregate Base Course (Class 7)	TON	140
5.01	Tack Coat	GAL	8
6.01	ACHM Surface Course	TON	24
8.03	Concrete Curb and Gutter (Class 3)	LF	64
9.03	Concrete Flume	SF	50
11.01	Reinforced Concrete Pre-Cast Box Culvert (6'x4')	LF	108
11.06	Reinforced Concrete Headwall	CY	8
11.20	Reinforced Concrete Retaining Wall	CY	92
11.40	Concrete Ditch Paving	SF	3100
14.02	Soil Sodding (Special)	SY	80
16.01	Maintenance of Traffic	LS	1
18.01	Remove and Replace Fence	LF	245
19.01	Final Cleanup	LS	1
25.04	Fence Chain Link (4')	LF	550
26.10	Trench and Excavation Safety	LS	1
28.00	Guard Rail	LF	80
28.01	Guard Rail Anchor Posts	EA	8

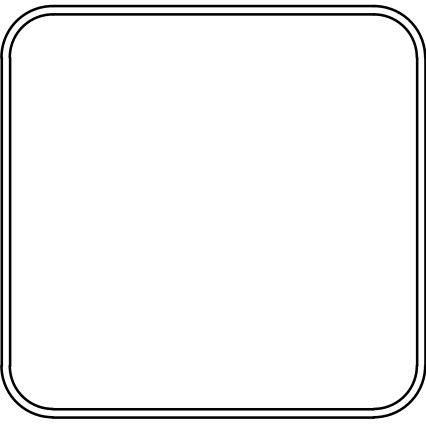


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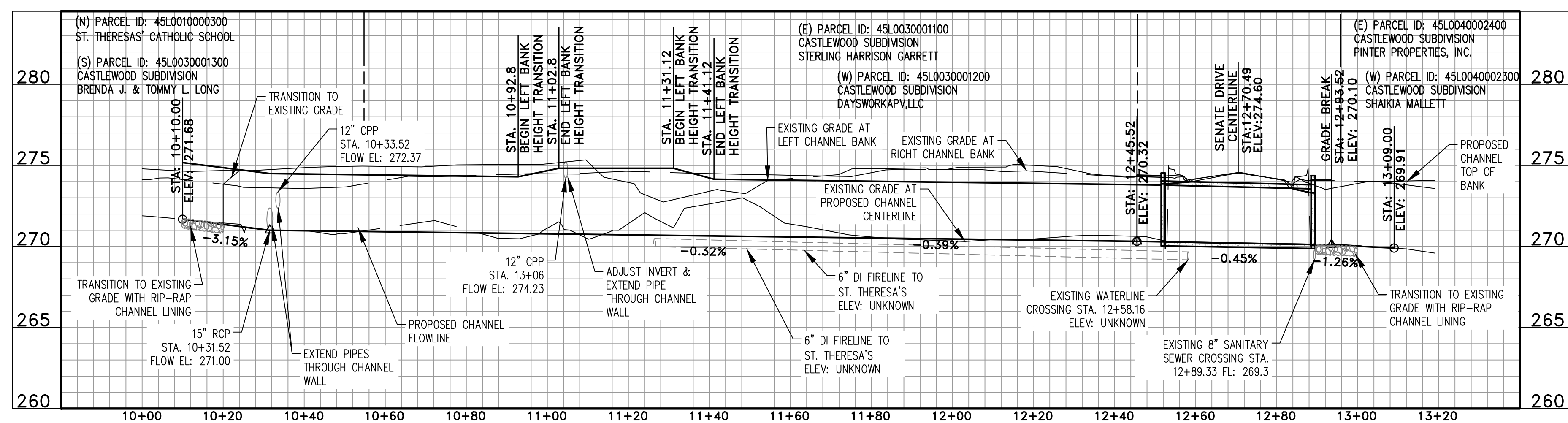
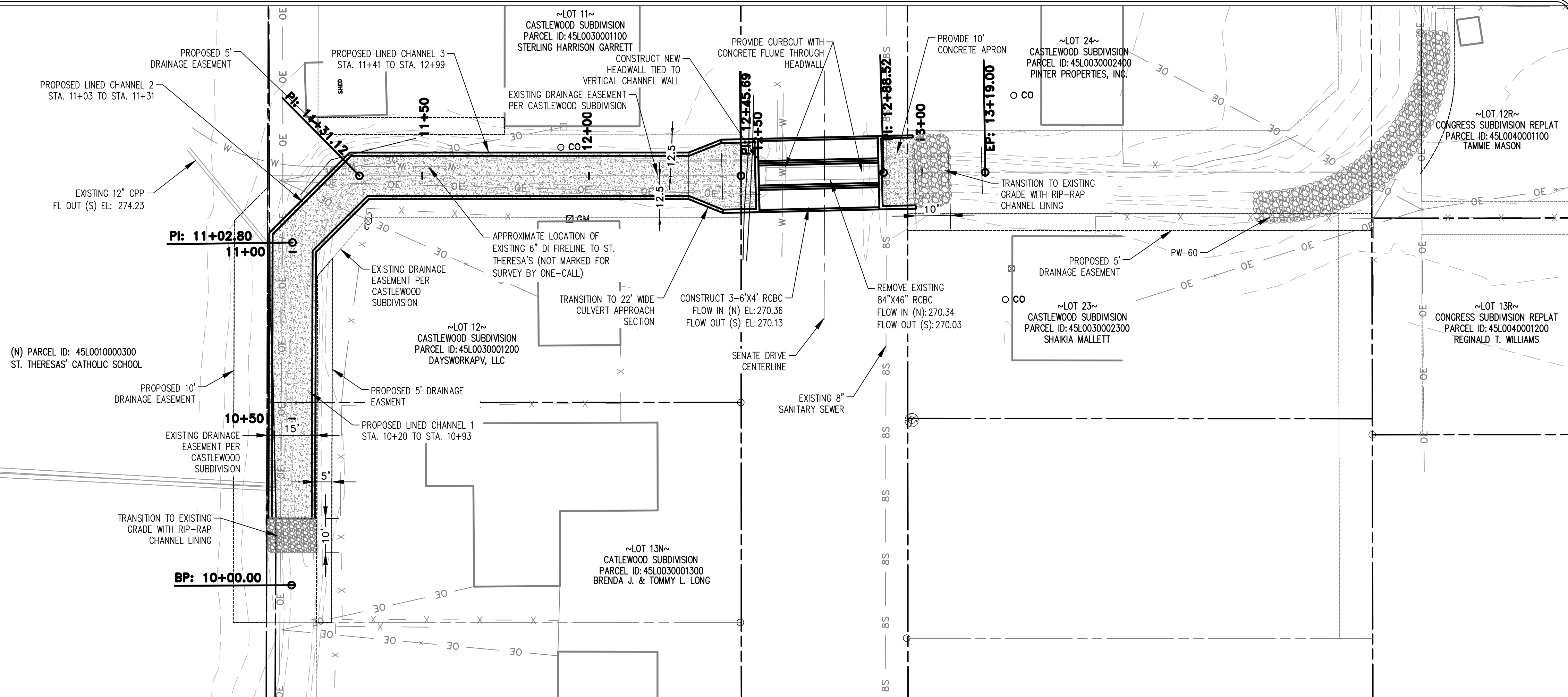
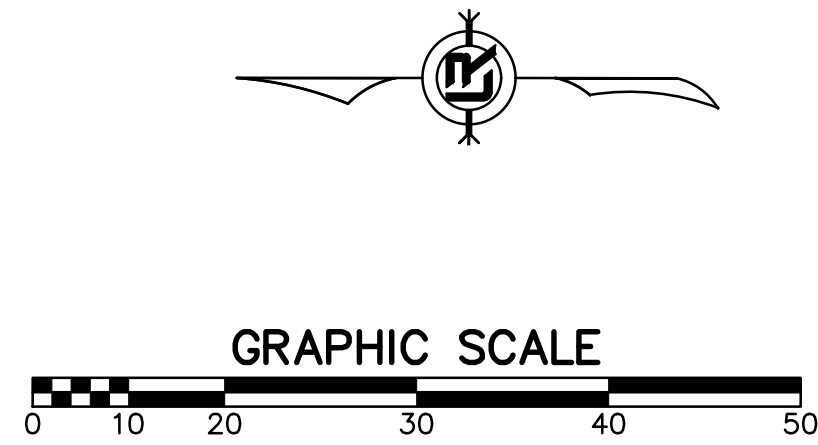
REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS  
SENATE DRIVE DRAINAGE IMPROVEMENTS  
LEGEND & QUANTITIES

DEPARTMENT OF PUBLIC WORKS  
CIVIL ENGINEERING  
701 W. MARKHAM  
LITTLE ROCK, ARKANSAS 72201



<b>DRAWN BY</b> JWM
<b>DESIGNED</b> KLF
<b>CHECKED</b> KLF
<b>DATE</b> 8/9/19
<b>SCALE</b> N.T.S.
<b>PROJECT NO.</b> CLR #02-17-DR-65
<b>SHEET NO.</b> C2

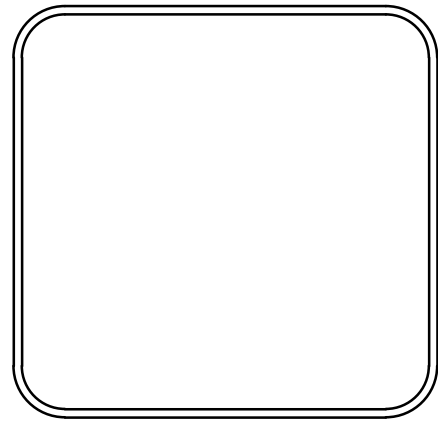


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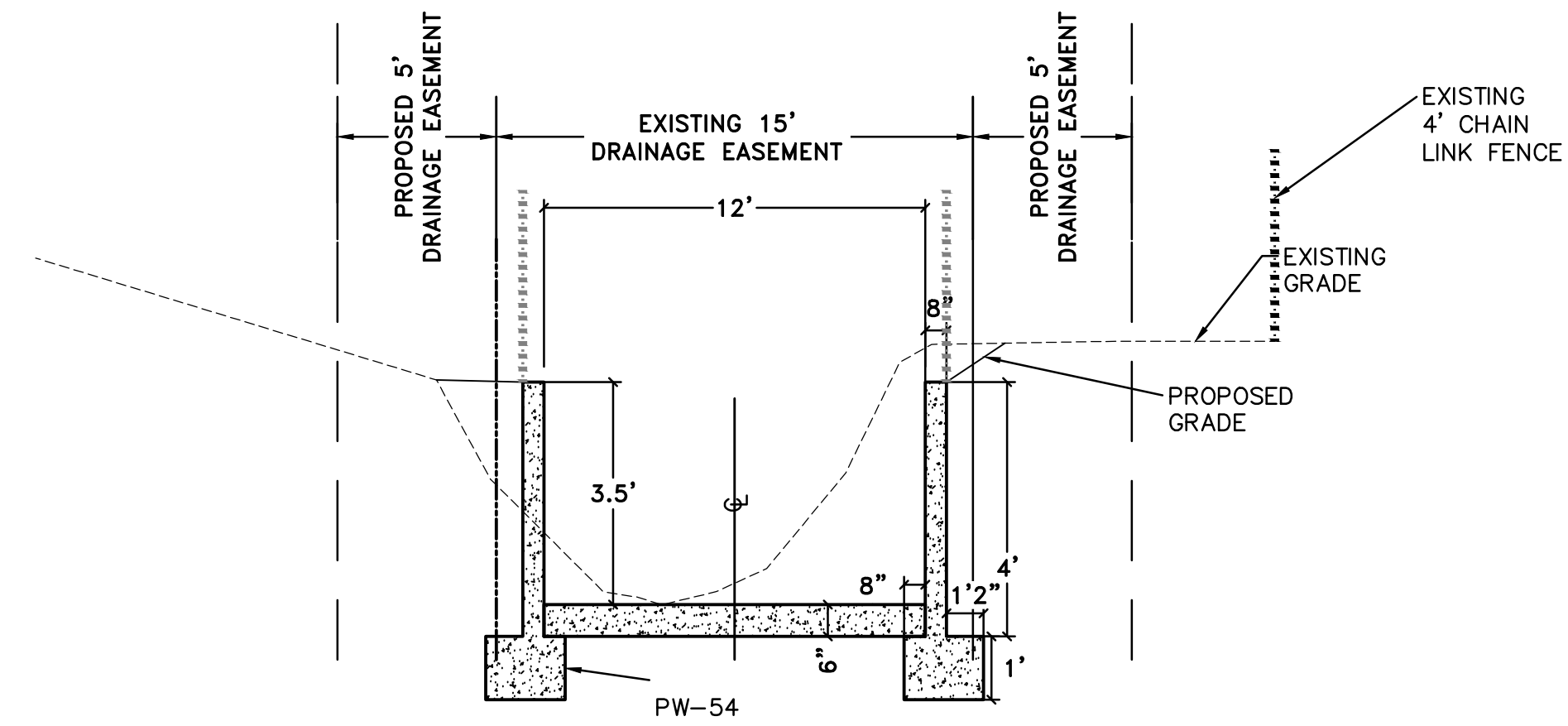
REVISIONS	DATE

**CITY OF LITTLE ROCK, ARKANSAS**  
**SENATE DRIVE DRAINAGE IMPROVEMENTS**  
PROPOSED CHANNEL  
PLAN - PROFILE  
STA. 10+00 TO 13+19

DEPARTMENT OF PUBLIC WORKS  
CIVIL ENGINEERING  
701 W. MARKHAM  
LITTLE ROCK, ARKANSAS 72201

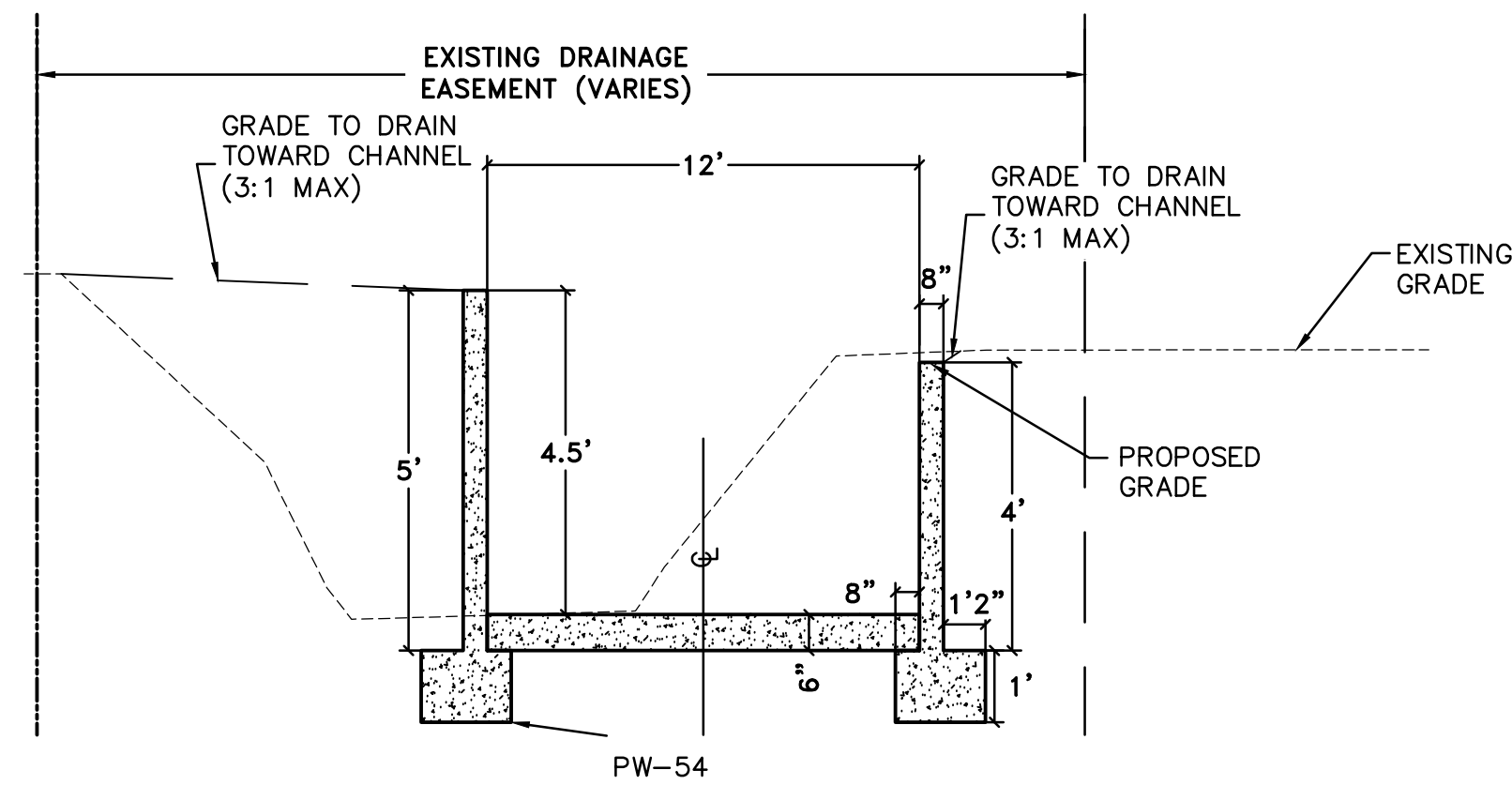


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DESIGNED KLF
CHECKED KLF
DATE 8/9/19
SCALE 1"=20'
PROJECT NO. CLR #02-17-DR-65
SHEET NO. C3



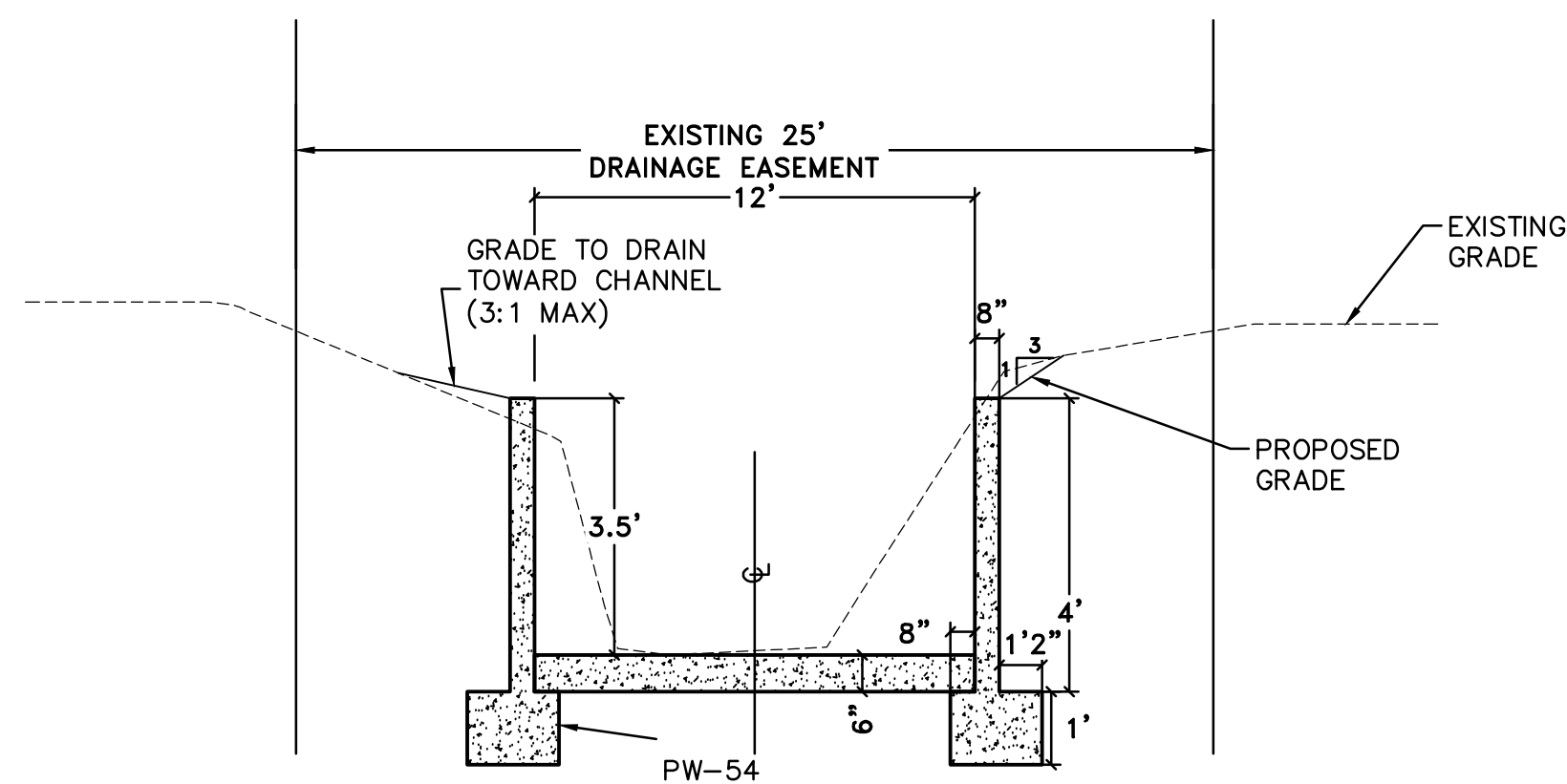
**TYPICAL SECTION – PROPOSED LINED CHANNEL 1**

Sta 10+20 to 10+93



**TYPICAL SECTION – PROPOSED LINED CHANNEL 2**

Sta 11+03 to 11+31



**TYPICAL SECTION – PROPOSED LINED CHANNEL 3**

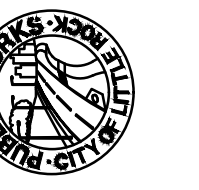
Sta 11+41 to 12+99

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REVISIONS DATE

CITY OF LITTLE ROCK, ARKANSAS  
SENATE DRIVE DRAINAGE IMPROVEMENTS

TYPICAL SECTIONS & SPECIAL DETAILS

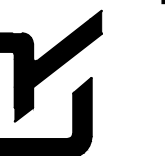


DEPARTMENT OF PUBLIC WORKS

CIVIL ENGINEERING

701 W. MARKHAM

LITTLE ROCK, ARKANSAS 72201



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JWM

DESIGNED

KLF

CHECKED

KLF

DATE

8/9/19

SCALE

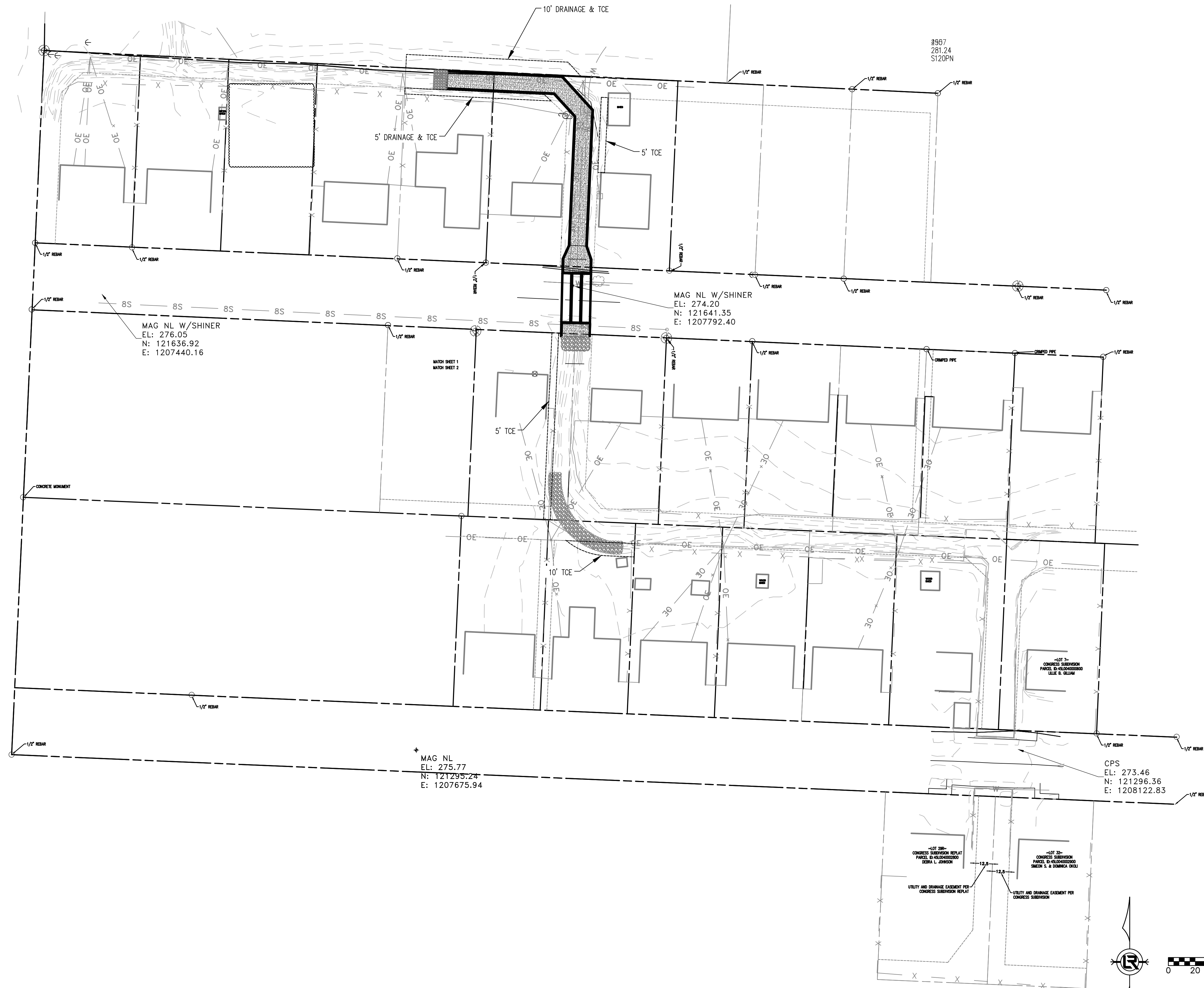
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PROJECT NO.

CLR #02-17-DR-65

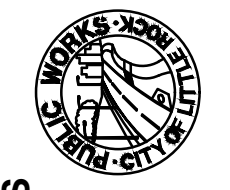
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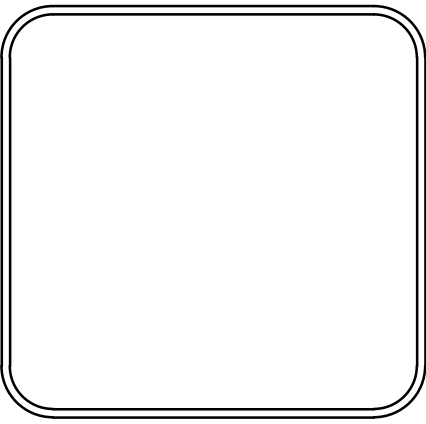
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REVISIONS	DATE

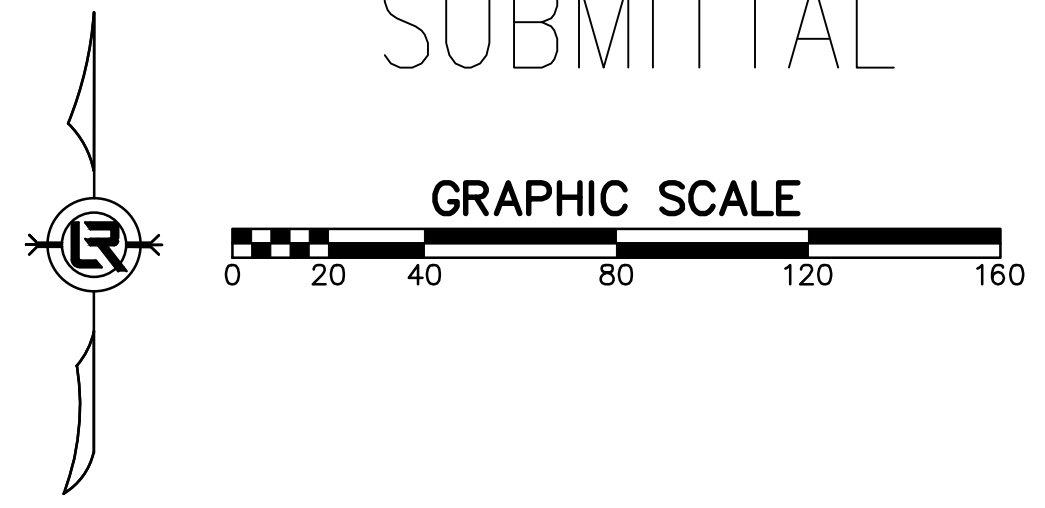
CITY OF LITTLE ROCK, ARKANSAS  
**SENATE DRIVE DRAINAGE IMPROVEMENTS**  
 FIELD TIES / LAYOUT SHEET

  
 DEPARTMENT OF PUBLIC WORKS  
 CIVIL ENGINEERING  
 701 W. MARKHAM  
 LITTLE ROCK, ARKANSAS 72201



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DESIGNED KLF
CHECKED KLF
DATE 8/9/2019
SCALE 1"=40'
PROJECT NO. CLR 02-17-DR-65
SHEET NO. <b>C5</b>

60%  
SUBMITTAL

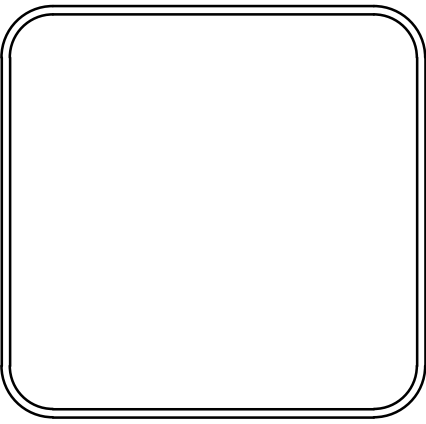




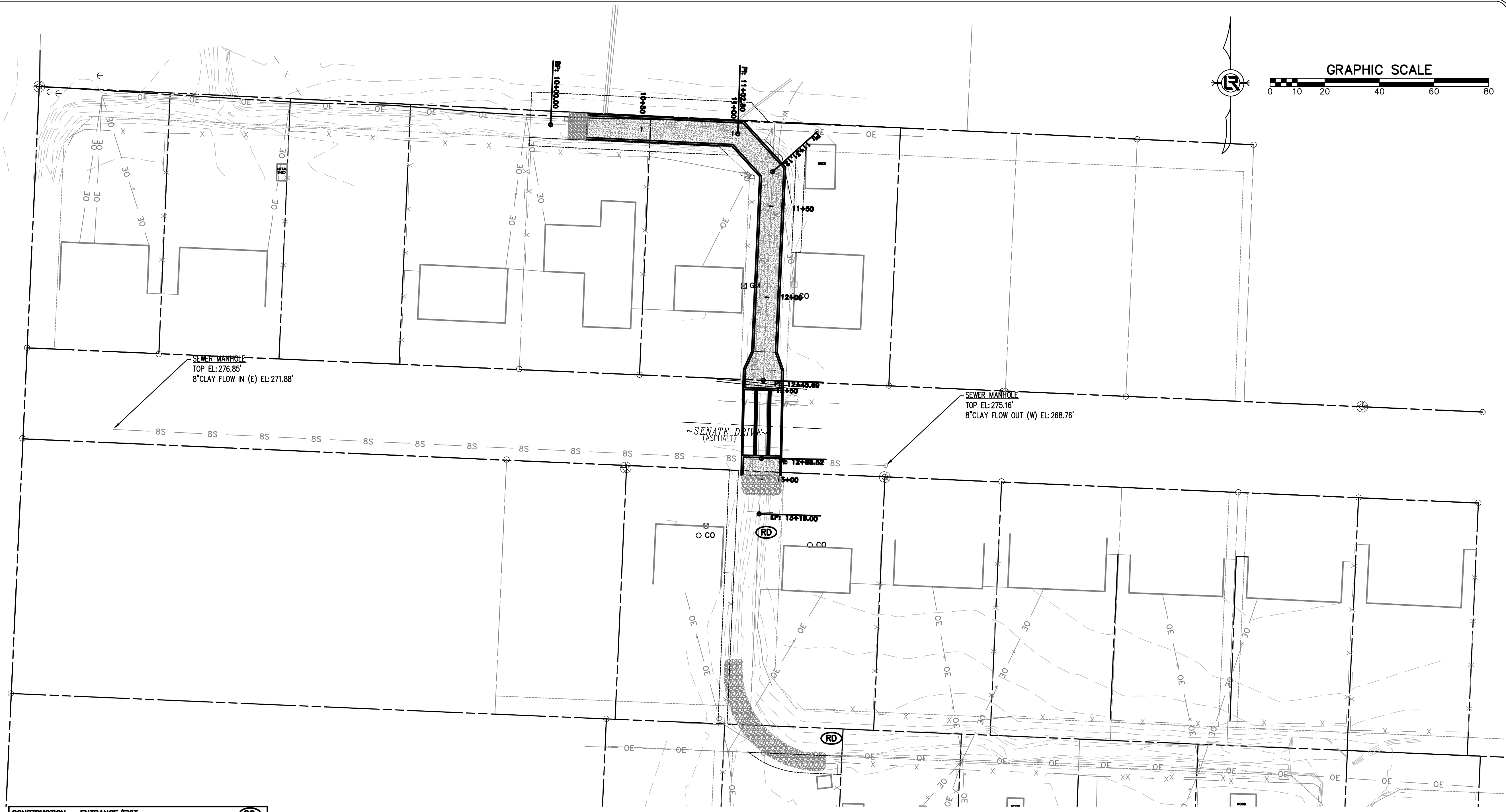
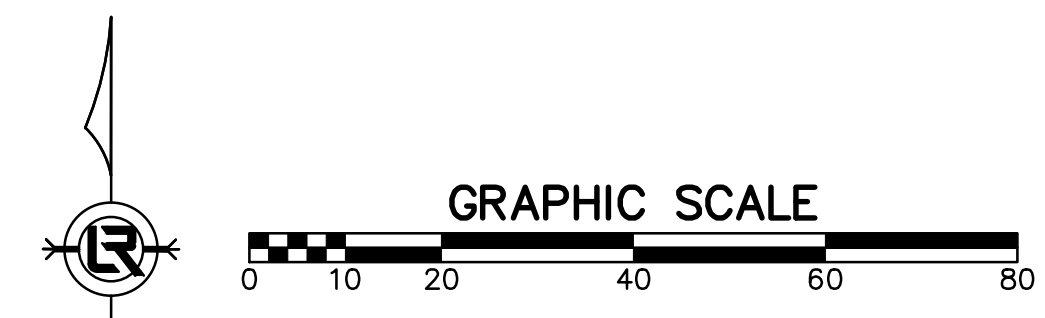
REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS  
 SENATE DRIVE DRAINAGE IMPROVEMENTS  
 EROSION CONTROL PHASE 1

DEPARTMENT OF PUBLIC WORKS  
 CIVIL ENGINEERING  
 701 W. MARKHAM  
 LITTLE ROCK, ARKANSAS 72201



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 DATE  
 8/9/19  
 SCALE  
 1"=20'  
 PROJECT NO.  
 CLR #02-17-DR-65  
 SHEET NO.  
 C6



CONSTRUCTION - ENTRANCE/EXIT	(CO)
CHECK DAM	(CD)
DIVERSION BERM	(DI)
DOWNDRAIN STRUCTURE - TEMPORARY	(DN)
ROCK DAM	(RD)
SEDIMENT BARRIER - SILT FENCE	(SD1)
SEDIMENT BARRIER - GRAVEL RING	(SD2)
SEDIMENT BARRIER - BLOCK & GRAVEL	(SD3)
SEDIMENT BARRIER - BLOCK	(SD4)
TEMPORARY SEDIMENT BASIN	(SBI)
SILT FENCE - TYPE A	(SFA)
SILT FENCE - TYPE B	(SFB)
SILT FENCE - TYPE C	(SFC)
STORM DRAIN OUTLET PROTECTION	(ST)
SURFACE ROUGHENING	(SU)
DISTURBED AREA STABILIZATION - TEMPORARY STABILIZATION	(TS1)
DISTURBED AREA STABILIZATION - TEMPORARY GRASSING	(TS2)
DISTURBED AREA STABILIZATION - PERMANENT GRASSING	(TS3)
MATTING/BLANKETS	(Mb)

### CONSTRUCTION EROSION CONTROL BEST MANAGEMENT PRACTICES

UPON IMPLEMENTATION AND INSTALLATION OF THE FOLLOWING AREAS: TRAILERS, PARKING, LAY DOWN, PORTA-POTTY, WHEEL WASH, CONCRETE WASHOUT, FUEL AND MATERIAL STORAGE CONTAINERS, SOLID WASTE CONTAINERS, ETC., IMMEDIATELY DENOTE THEM ON THE SITE MAPS AND NOTE ANY CHANGES IN LOCATION AS THEY OCCUR THROUGHOUT THE CONSTRUCTION PROCESS. IN ADDITION, NOTE ANY OFF-SITE AREA WHERE FILL IS IMPORTED FROM OR SOIL IS EXPORTED TO ON THE SITE MAPS.

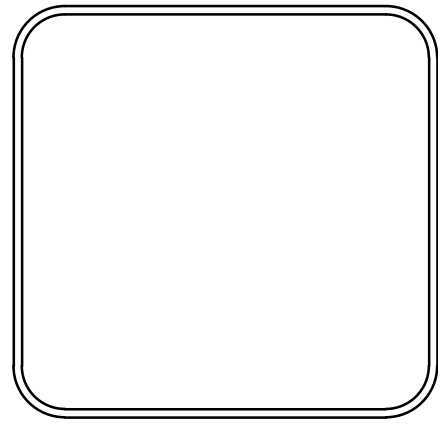
### PHASE 1

1. INSTALL SWPPP INFORMATION SIGN.
2. INSTALL SILT FENCE(S) ON THE SITE. CLEAR ONLY THOSE AREAS NECESSARY TO INSTALL SILT FENCE.
3. PREPARE TEMPORARY PARKING AND STORAGE AREA.
4. HALT ALL ACTIVITIES AND CONTACT THE CITY OF LITTLE ROCK TO PERFORM INSPECTION AND ACCEPTANCE OF BMP'S.
5. CONSTRUCT AND STABILIZE SEDIMENT BASIN(S) AND SEDIMENT TRAP(S) WITH APPROPRIATE OUTFALL STRUCTURES. CLEAR ONLY THOSE AREAS NECESSARY TO INSTALL BASINS AND TRAPS.
6. INSTALL AND STABILIZE HYDRAULIC CONTROL STRUCTURES (DIKES, SWALES, CHECK DAMS, ETC.). CLEAR ONLY THOSE AREAS NECESSARY TO INSTALL HYDRAULIC CONTROL DEVICES.

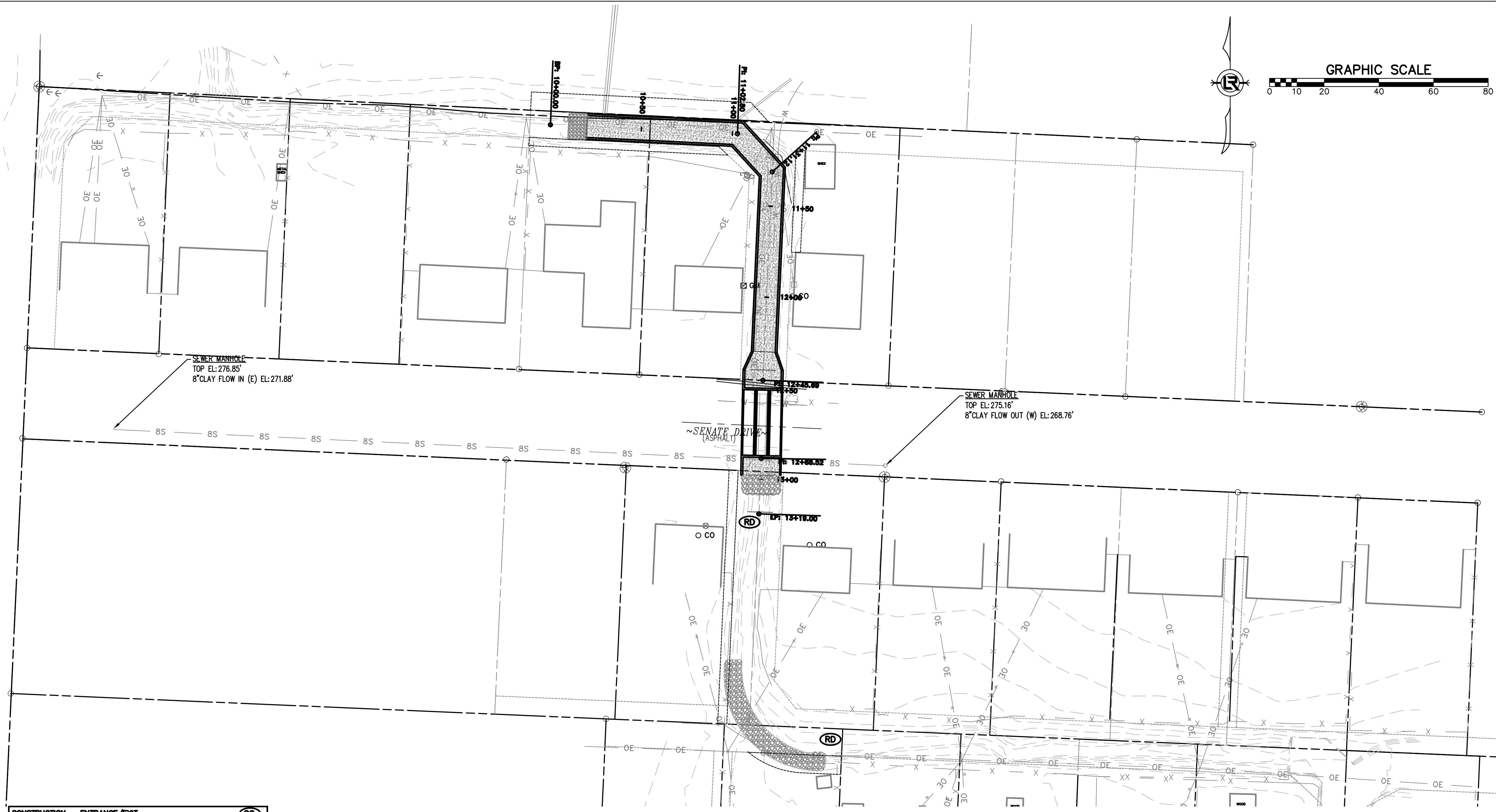
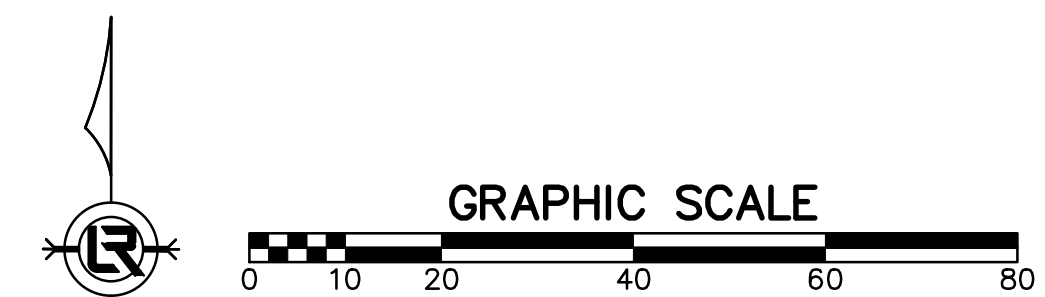
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 SUBMITTAL


CITY OF LITTLE ROCK, ARKANSAS  
 SENATE DRIVE DRAINAGE IMPROVEMENTS  
 EROSION CONTROL PHASE 3

DEPARTMENT OF PUBLIC WORKS  
 CIVIL ENGINEERING  
 701 W. MARKHAM  
 LITTLE ROCK, ARKANSAS 72201



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 8/9/19  
 SCALE  
 1"=20'  
 PROJECT NO.  
 CLR #02-17-DR-65  
 SHEET NO.  
 C7



CONSTRUCTION - ENTRANCE/EXIT	(CO)
CHECK DAM	(CD)
DIVERSION BERM	(DI)
DOWNDRAIN STRUCTURE - TEMPORARY	(DN)
ROCK DAM	(RD)
SEDIMENT BARRIER - SILT FENCE	(SD1)
SEDIMENT BARRIER - GRAVEL RING	(SD2)
SEDIMENT BARRIER - BLOCK & GRAVEL	(SD3)
SEDIMENT BARRIER - BLOCK	(SD4)
TEMPORARY SEDIMENT BASIN	(SBI)
SILT FENCE - TYPE A	(SFA)
SILT FENCE - TYPE B	(SFB)
SILT FENCE - TYPE C	(SFC)
STORM DRAIN OUTLET PROTECTION	(ST)
SURFACE ROUGHENING	(SU)
DISTURBED AREA STABILIZATION - TEMPORARY STABILIZATION	(TS1)
DISTURBED AREA STABILIZATION - TEMPORARY GRASSING	(TS2)
DISTURBED AREA STABILIZATION - PERMANENT GRASSING	(TS3)
MATTING/BLANKETS	(Mb)

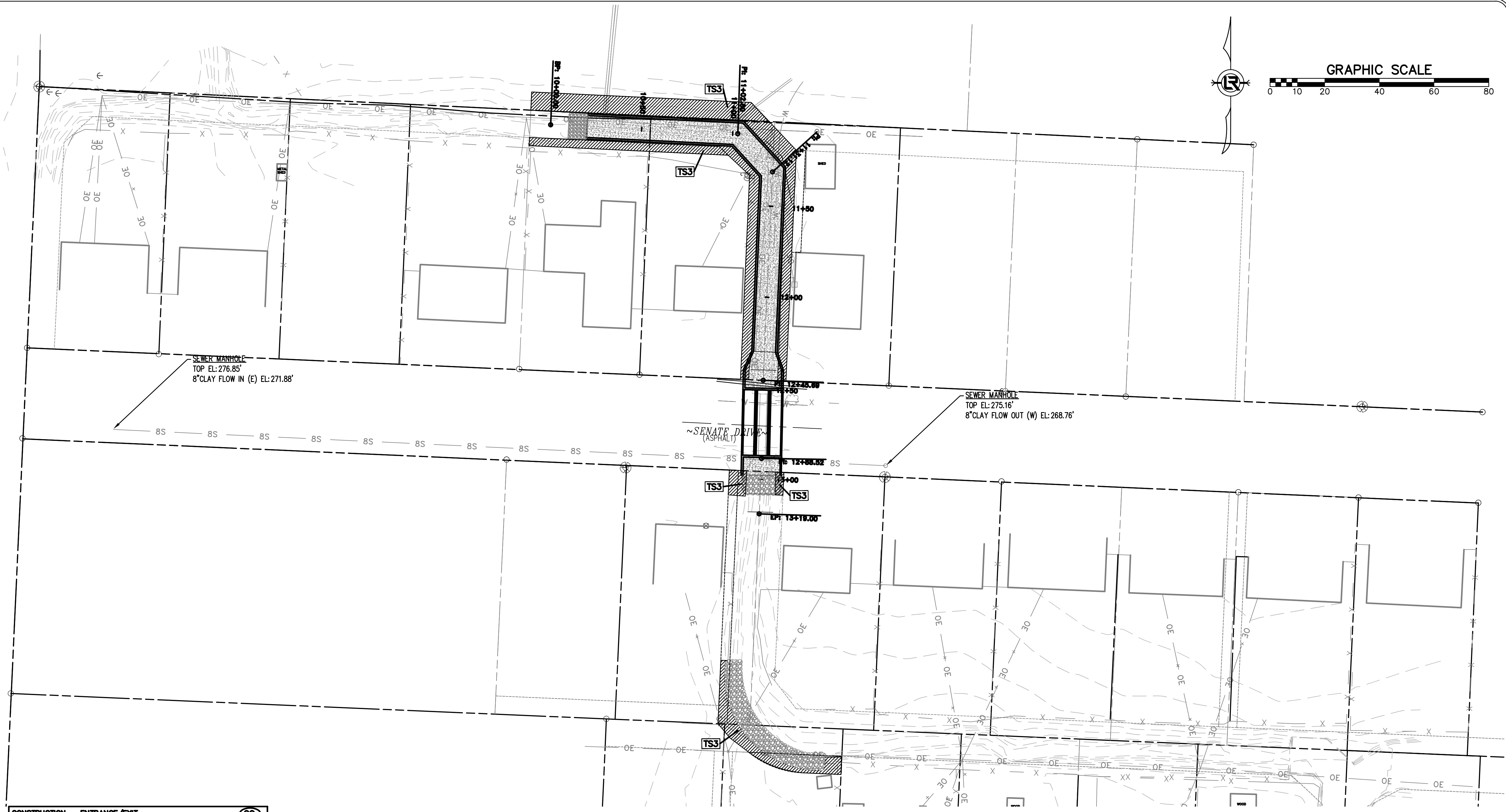
CONSTRUCTION EROSION CONTROL  
 BEST MANAGEMENT PRACTICES

UPON IMPLEMENTATION AND INSTALLATION OF THE FOLLOWING AREAS: TRAILERS, PARKING, LAY DOWN, PORTA-POTTY, WHEEL WASH, CONCRETE WASHOUT, FUEL AND MATERIAL STORAGE CONTAINERS, SOLID WASTE CONTAINERS, ETC., IMMEDIATELY DENOTE THEM ON THE SITE MAPS AND NOTE ANY CHANGES IN LOCATION AS THEY OCCUR THROUGHOUT THE CONSTRUCTION PROCESS. IN ADDITION, NOTE ANY OFF-SITE AREA WHERE FILL IS IMPORTED FROM OR SOIL IS EXPORTED TO ON THE SITE MAPS.

PHASE 2

- BEGIN SITE DEMOLITION, CLEARING AND GRUBBING.
- CONTINUE GRADING THE SITE.
- INSTALL UTILITIES, UNDERDRAINS, STORM SEWERS & INLETS.
- PREPARE SUBGRADE, ROAD BASE AND CURBS AND GUTTERS.
- CONSTRUCT DRIVEWAY TRANSITIONS.
- INSTALL APPROPRIATE INLET PROTECTION DEVICES FOR PAVED AREAS AS WORK PROGRESSES.

60%  
 SUBMITTAL



CONSTRUCTION - ENTRANCE/EXIT	(CO)
CHECK DAM	(CD)
DIVERSION BERM	(DI)
DOWNDRAIN STRUCTURE - TEMPORARY	(DN)
ROCK DAM	(RD)
SEDIMENT BARRIER - SILT FENCE	(SD1)
SEDIMENT BARRIER - GRAVEL RING	(SD2)
SEDIMENT BARRIER - BLOCK & GRAVEL	(SD3)
SEDIMENT BARRIER - BLOCK	(SD4)
TEMPORARY SEDIMENT BASIN	(SBI)
SILT FENCE - TYPE A	(SFA)
SILT FENCE - TYPE B	(SFB)
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DISTURBED AREA STABILIZATION - TEMPORARY STABILIZATION	(TS1)
DISTURBED AREA STABILIZATION - TEMPORARY GRASSING	(TS2)
DISTURBED AREA STABILIZATION - PERMANENT GRASSING	(TS3)
MATTING/BLANKETS	(Mb)

**CONSTRUCTION EROSION CONTROL  
BEST MANAGEMENT PRACTICES**

UPON IMPLEMENTATION AND INSTALLATION OF THE FOLLOWING AREAS: TRAILERS, PARKING, LAY DOWN, PORTA-POTTY, WHEEL WASH, CONCRETE WASHOUT, FUEL AND MATERIAL STORAGE CONTAINERS, SOLID WASTE CONTAINERS, ETC., IMMEDIATELY DENOTE THEM ON THE SITE MAPS AND NOTE ANY CHANGES IN LOCATION AS THEY OCCUR THROUGHOUT THE CONSTRUCTION PROCESS. IN ADDITION, NOTE ANY OFF-SITE AREA WHERE FILL IS IMPORTED FROM OR SOIL IS EXPORTED TO ON THE SITE MAPS.

**PHASE 3**

1. FINISH GRADE SIDE SLOPES & PREPARE SUBGRADES FOR SIDEWALKS, ETC.
2. PREPARE SITE FOR PAVING.
3. PAVE WHERE INDICATED ON PLANS. CONSTRUCT SIDEWALKS.
4. INSTALL APPROPRIATE INLET PROTECTION DEVICES FOR PAVED AREAS AS WORK PROGRESSES.
5. COMPLETE GRADING AND INSTALLATION OF PERMANENT STABILIZATION OVER ALL NON-PAVED AREAS.

60%  
SUBMITTAL

REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS  
SENATE DRIVE DRAINAGE IMPROVEMENTS  
EROSION CONTROL PHASE 3

DEPARTMENT OF PUBLIC WORKS  
CIVIL ENGINEERING  
701 W. MARKHAM  
LITTLE ROCK, ARKANSAS 72201


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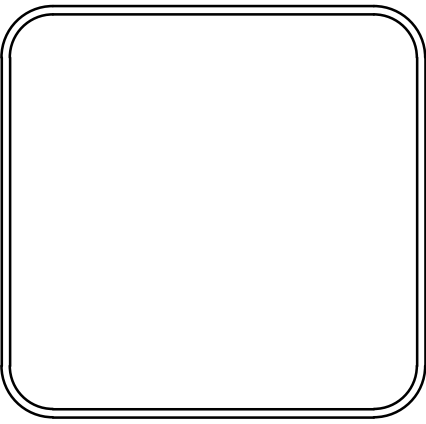
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CHECKED KLF
DATE 8/9/19
SCALE 1"=20'
PROJECT NO. CLR #02-17-DR-65
SHEET NO. C8



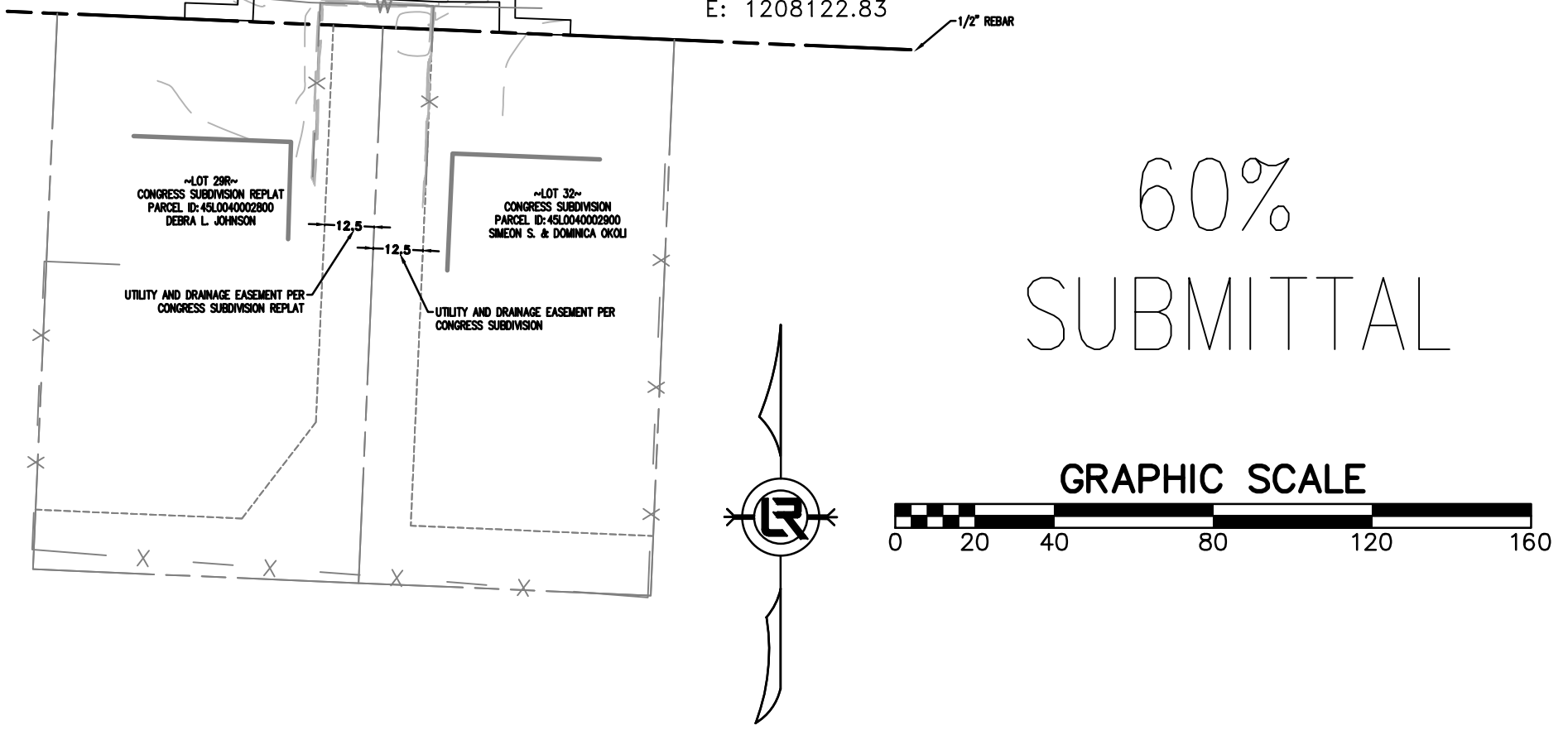
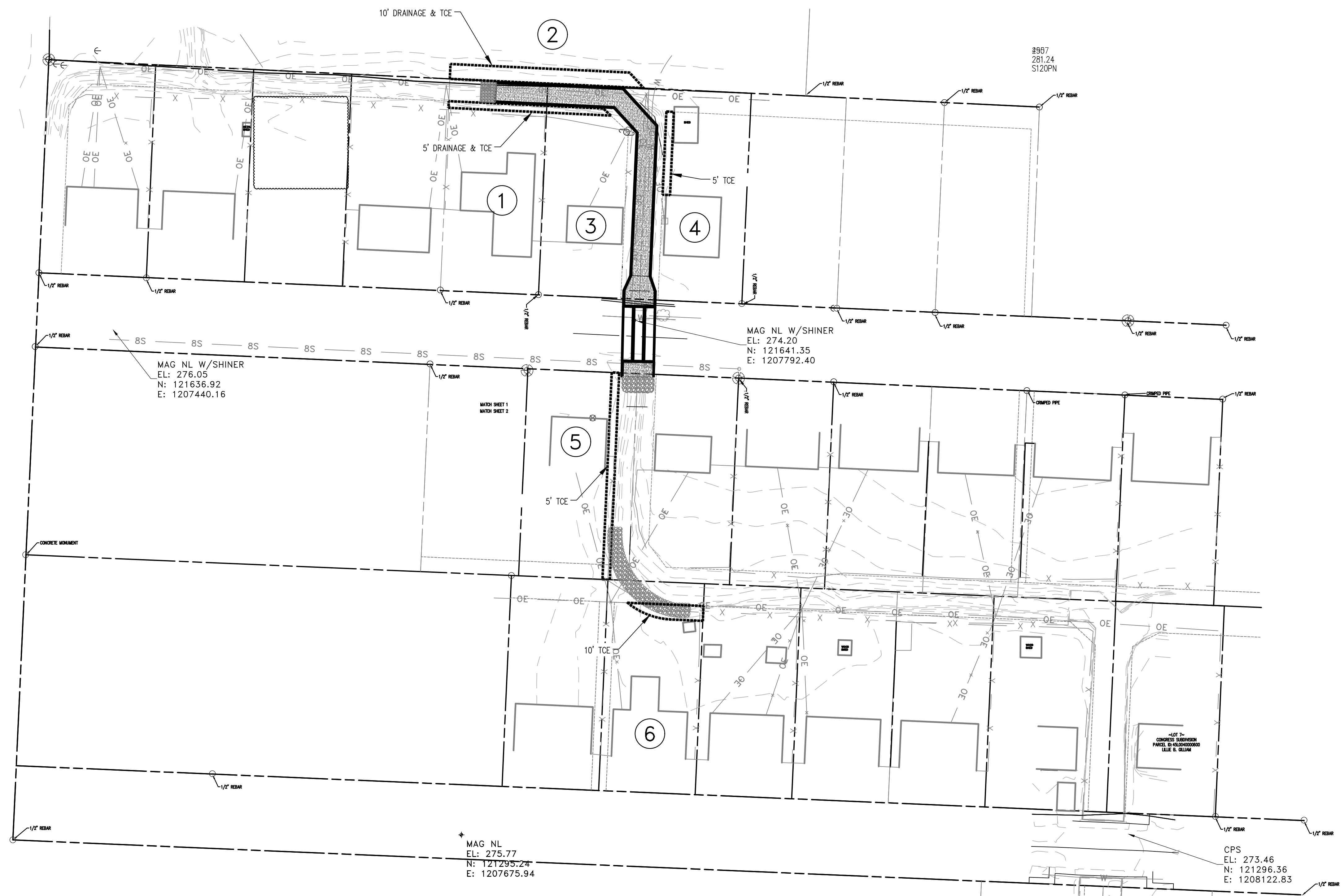
REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS  
SENATE DRIVE DRAINAGE IMPROVEMENTS  
PROPERTY OWNERSHIP MAP

  
 DEPARTMENT OF PUBLIC WORKS  
 CIVIL ENGINEERING  
 701 W. MARKHAM  
 LITTLE ROCK, ARKANSAS 72201



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 JWM  
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 KLF  
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 KLF  
 DATE  
 8/9/2019  
 SCALE  
 1"=40'  
 PROJECT NO.  
 CLR 02-17-DR-65  
 SHEET NO.  
 C9



60%  
SUBMITTAL

OWNERSHIP INFORMATION			
Senate Drive Drainage Improvements			
Conceptual Design (60%)			
August 9, 2019			
PARCEL #	NAME	ADDRESS	PARCEL ID
1	BRENDA J. & TOMMY L. LONG	6300 SENATE DR, LITTLE ROCK, AR 72209	45L0030001300
2	ST THERESAS CATHOLIC CHURCH	6219 BASELINE RD, LITTLE ROCK, AR 72209	45L0010000300
3	DAYSWORKAPV, LLC	6216 SENATE DR, LITTLE ROCK, AR 72209	45L00300001200
4	STERLING HARRISON GARRETT	6212 SENATE DR, LITTLE ROCK, AR 72209	45L00300001100
5	SHAKIA MALLET	6217 SENATE DR, LITTLE ROCK, AR 72209	45L00400002300
6	TAMMIE MASON	6222 DENHAM DRIVE, LITTLE ROCK, AR 72209	45L00400001100