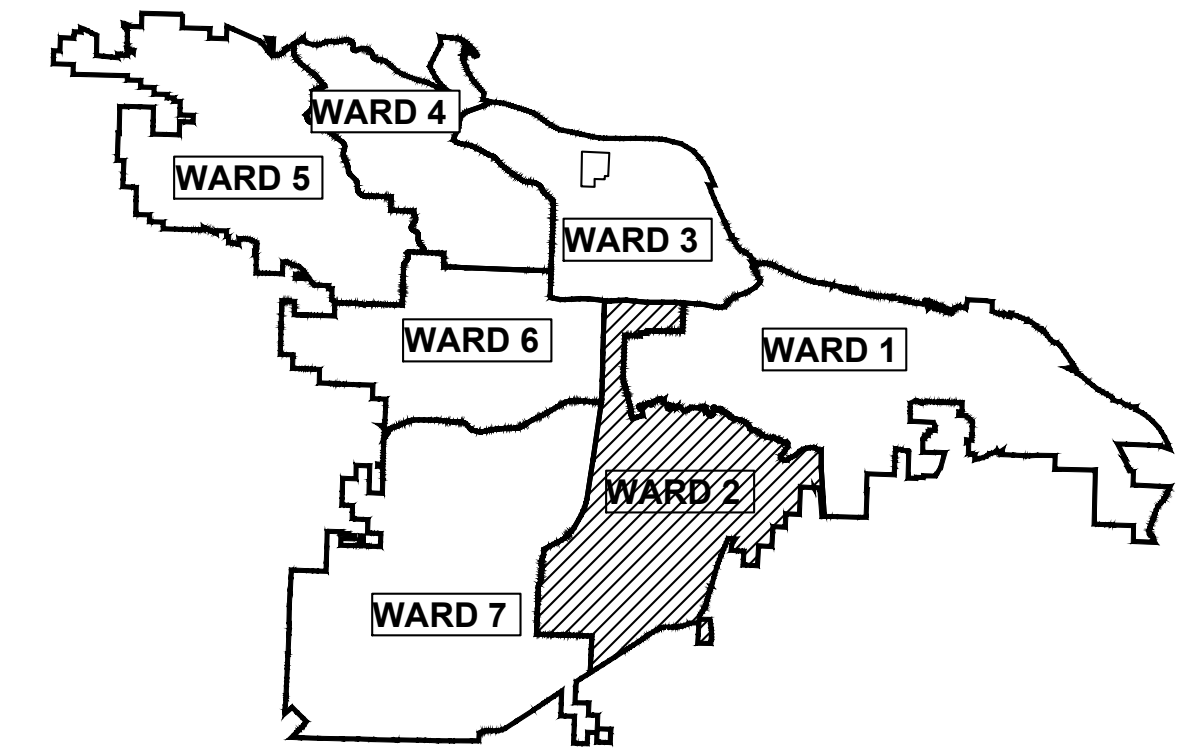


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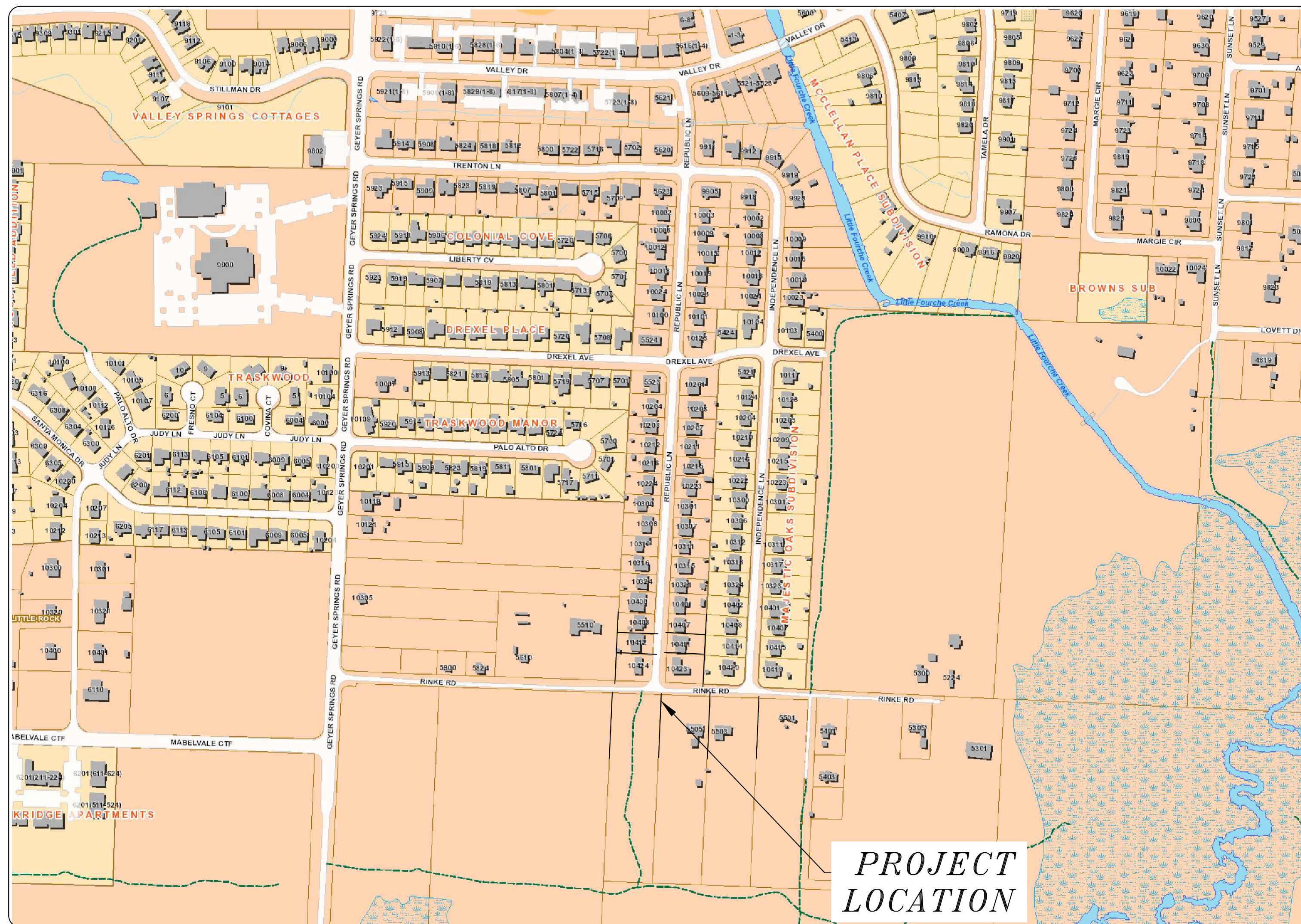
RINKE ROAD AT REPUBLIC

DRAINAGE IMPROVEMENTS

(INTERSECTION WITH REPUBLIC LN)



PROJECT LOCATION - WARD 2



SHEET NO.	TITLE
C 1	COVER SHEET
C 2	LEGEND
C 3	FIELD TIES/LAYOUT SHEET - TBA
C 4	EXISTING CONDITIONS
C 4.1	DRAINAGE PLAN AND PROFILE
C 4.2	STREET, CURB AND GUTTER DETAILS
C 5	EROSION CONTROL PLAN - PHASE 1
C 5.1	EROSION CONTROL PLAN - PHASE 2
C 5.2	EROSION CONTROL PLAN - PHASE 3
C 6	MAINTENANCE OF TRAFFIC



2023-2025
BOND PROGRAM

DEPARTMENT OF PUBLIC WORKS
CIVIL ENGINEERING
701 WEST MARKHAM STREET
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CITY OF LITTLE ROCK, ARKANSAS
RINKE ROAD AT REPUBLIC DRAINAGE IMPROVEMENTS
COVER SHEET

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CIVIL ENGINEERING
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LITTLE ROCK, ARKANSAS 72201

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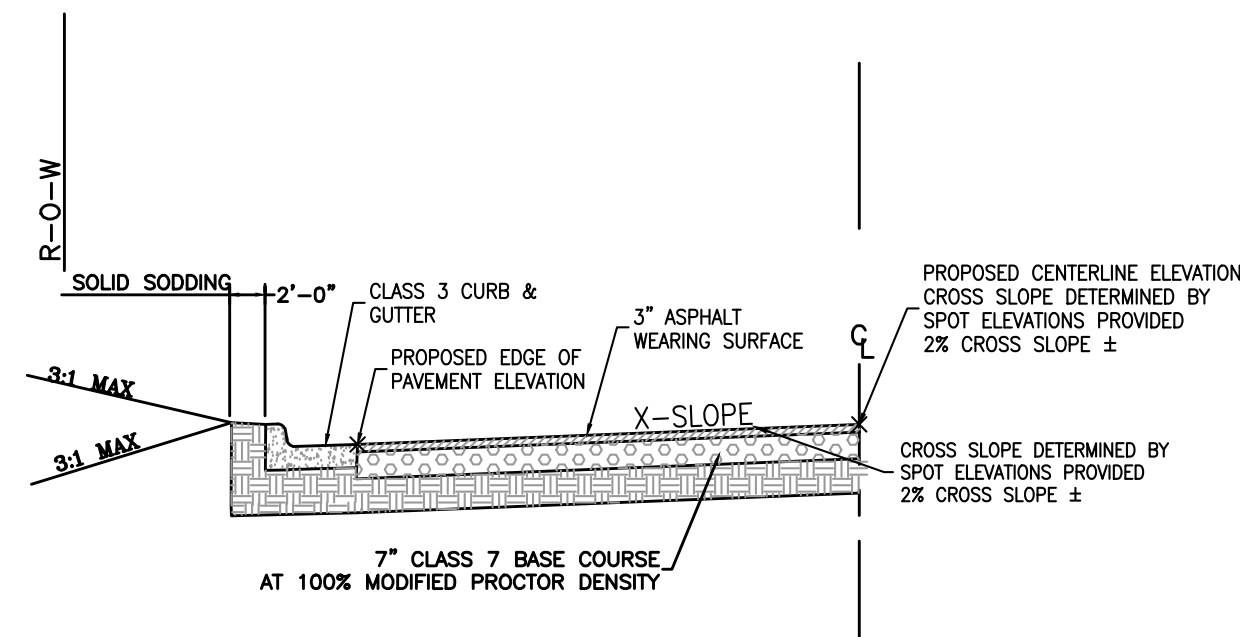
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REVISIONS	DATE
-	-

CLR PROJECT # 02-22-DR-08			
RINKE ROAD AT REPUBLIC DRAINAGE IMPROVEMENTS			
2/27/2024			
ITEM NO.	DESCRIPTION OF ITEMS	CONTRACT QUANTITY	UNIT
2.01	SITE PREPARATION	1	L.S.
3.01	UNCLASSIFIED EXCAVATION	130	C.Y.
3.06	BORROW MATERIAL	65	C.Y.
3.40	TOPSOIL	15	C.Y.
8.03	CONCRETE CURB & GUTTER (CLASS 3)	143	L.F.
10.01	JUNCTION BOX (4')	2	EA
10.04	CURB INLET - 4' BOX	2	EA
10.07	WING 3' EXTENSION	4	EA
13.18C	STORM DRAIN PIPES, 18" RCP CROSS DRAIN	57	L.F.
13.24S	STORM DRAIN PIPES, 24" RCP SIDE DRAIN	140	L.F.
13.24C	STORM DRAIN PIPES, 24" RCP CROSS DRAIN	140	L.F.
14.01	SOLID SODDING (BERMUDA)	188	S.Y.
16.01	MAINTENANCE OF TRAFFIC	1	L.S.
17.01	PAVEMENT REPAIRS	225	S.Y.
19.01	FINAL CLEAN UP	1	L.S.
24.05	ROCK DAM, (RD)	7	EA
24.14	STORM DRAIN INLET PROTECTION (ST)	2	EA
26.10	TRENCH & EXCAVATION SAFETY	1	L.S.

NOTES:

THIS AREA IS FOR ANY SPECIAL CONDITIONS OR NOTES THAT NEED TO BE ADDED TO THE PLAN SET THAT ARE NOT COVERED IN THE BID/CONTRACT DOCUMENTS OR STANDARD SPECIFICATIONS.

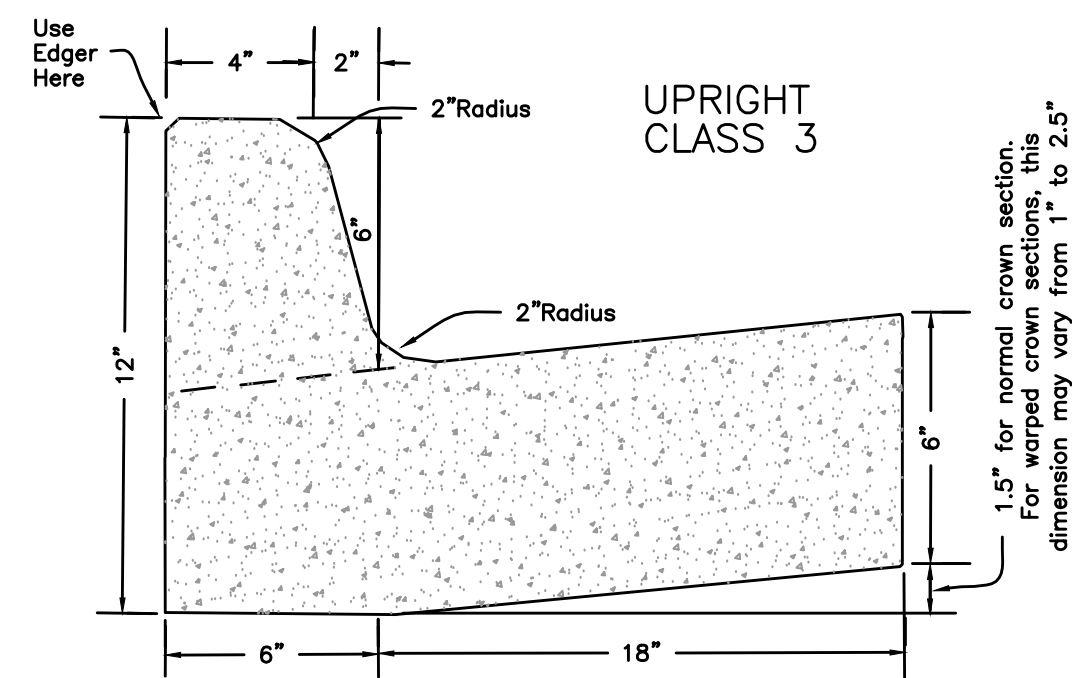


GENERAL NOTES

- IN AREAS TO RECEIVE BITUMINOUS PAVING, CONCRETE DRIVEWAYS, OR CURB AND GUTTER, SUBGRADE SHALL BE COMPACTED TO A DENSITY NOT LESS THAN 90% OF MAXIMUM DENSITY OBTAINED AT OPTIMUM MOISTURE CONTENT. (ASHTO T-180)
- FOR AREAS OF SUBGRADE PREPARATION TO RECEIVE CONCRETE SIDEWALKS, SUBGRADE SHALL BE COMPACTED TO A DENSITY OF 90% MAXIMUM (ASHTO T-180).
- CRUSHED STONE— MATERIAL IN EACH COURSE SHALL BE COMPACTED TO A DENSITY OF 100% MAXIMUM (ASHTO T-191).
- CENTERLINE PROFILE WILL REQUIRE HEIGHT GREATER THAN CURB FOR SOME STREETS TO MAINTAIN 2% CROSS-SLOPE. THICKNESS SHALL BE DETERMINED BY SOIL TEST AND PAVEMENT DESIGN IF REQUIRED BY DEPARTMENT OF PUBLIC WORKS. 20'-0" PAVEMENT FOR MINOR RESIDENTIAL WHERE APPROVED BY CITY.

*NOTE: PAVEMENT RECONSTRUCTION TO CENTERLINE IS REQUIRED WHEN EXISTING STREET DOES NOT MEET THESE STANDARDS.

STREET REPAIR SECTION DETAIL
NTS



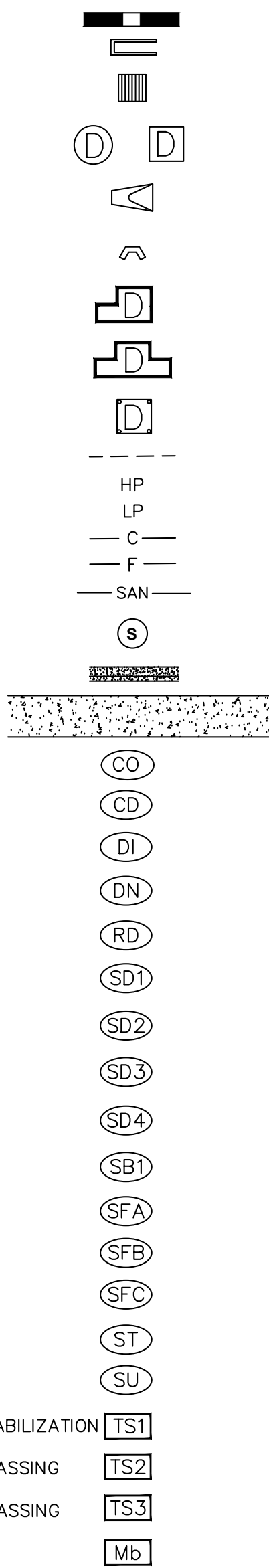
Install 1/2" Bituminous Expansion Joint Material At 100' Max. Intervals Or At Tie Ins To Boxes, Radius Returns Or Driveway Aprons. Control Joints 15' Max. O.C.
Joint Sealant Shall be Sonneborn SL2 Self Leveling Urethane as Manufactured by Chemrexx or Equivalent.

EXISTING

- IRON ROD ○ IR
- PK NAIL ○ PK
- R.R. SPIKE ○ RR(Sp)
- CONC. MONUMENT □ CM
- WATER VALVE X WV
- WATER METER □ WM
- FIRE HYDRANT ○ FH
- GAS METER □ GM
- GAS VALVE ⊗ GV
- CLEAN-OUT ○ CO
- GUARD POST (BOLLARD) ● GP
- SIGN POST —
- BENCHMARK —
- STORM SEWER MANHOLE (D)
- SANITARY SEWER MANHOLE (S)
- TELEPHONE MANHOLE (T)
- ELECTRIC MANHOLE (E)
- TELEPHONE BOX □
- ELECTRIC BOX □
- CABLE BOX □
- UTILITY POLE ○
- GUY WIRE —
- LIGHT POLE ○
- POST OR POLE (TYPE AS NOTED) ○
- MAILBOX □
- DECIDUOUS TREE (Tree symbol)
- EVERGREEN/CONIFEROUS TREE (Tree symbol)
- BUSH (Bush symbol)
- PROPERTY LINE —
- SETBACK LINE —
- EASEMENT LINE —
- CURB —
- FENCE —
- OVERHEAD ELECTRIC —
- OVERHEAD TELEPHONE —
- OVERHEAD CABLE —
- UNDERGROUND TELEPHONE —
- UNDERGROUND ELECTRIC —
- UNDERGROUND CABLE —
- WATER LINE —
- SEWER LINE —
- GAS LINE —
- STORM SEWER/CULVERT —
- EDGE OF WOODS —
- CONTOUR LINE —

PROPOSED

- STORM SEWER — PIPE
- STORM SEWER — MITERED END SECTION
- STORM SEWER — GRATE INLET
- STORM SEWER — JUNCTION BOX
- STORM SEWER — FLARED END SECTION
- STORM SEWER — HEADWALL
- STORM SEWER — SINGLE WING
- STORM SEWER — DOUBLE WING
- STORM SEWER — AREA INLET
- GRADE BREAK LINE
- HIGH POINT
- LOW POINT
- CUT LINE
- FILL LINE
- SANITARY SEWER PIPE
- SANITARY SEWER MANHOLE
- PROPOSED CURB
- PROPOSED CONCRETE
- CONSTRUCTION — ENTRANCE/EXIT
- CHECK DAM
- DIVERSION BERM
- DOWNDRAIN STRUCTURE — TEMPORARY
- ROCK DAM
- SEDIMENT BARRIER — SILT FENCE
- SEDIMENT BARRIER — GRAVEL RING
- SEDIMENT BARRIER — BLOCK & GRAVEL
- SEDIMENT BARRIER — BLOCK
- TEMPORARY SEDIMENT BASIN
- SILT FENCE — TYPE A
- SILT FENCE — TYPE B
- SILT FENCE — TYPE C
- STORM DRAIN OUTLET PROTECTION
- SURFACE ROUGHENING
- DISTURBED AREA STABILIZATION —TEMPORARY STABILIZATION
- DISTURBED AREA STABILIZATION —TEMPORARY GRASSING
- DISTURBED AREA STABILIZATION —PERMANENT GRASSING
- MATting/BLANKETS



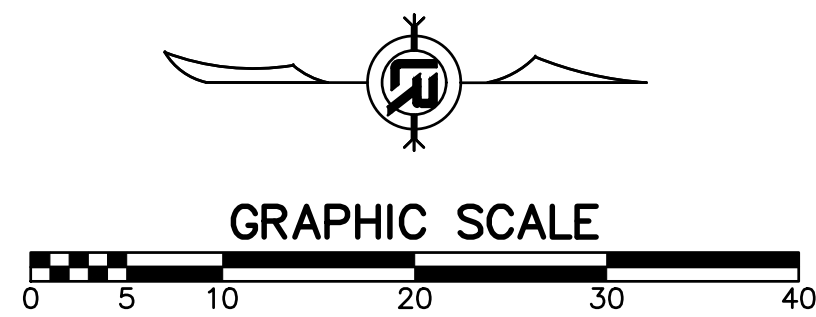
CITY OF LITTLE ROCK, ARKANSAS
RINKE ROAD AT REPUBLIC DRAINAGE IMPROVEMENTS
GENERAL NOTES, LEGEND AND QUANTITIES

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VERTICAL DATUM: NGVD 29
 BASIS OF BEARING: ARKANSAS GRID NORTH NAD 83 AS DETERMINE BY GPS
 CONTROL POINT

REVISIONS DATE

CITY OF LITTLE ROCK, ARKANSAS
 RINKE ROAD AT REPUBLIC DRAINAGE IMPROVEMENTS

FIELD TIES/LAYOUT SHEET

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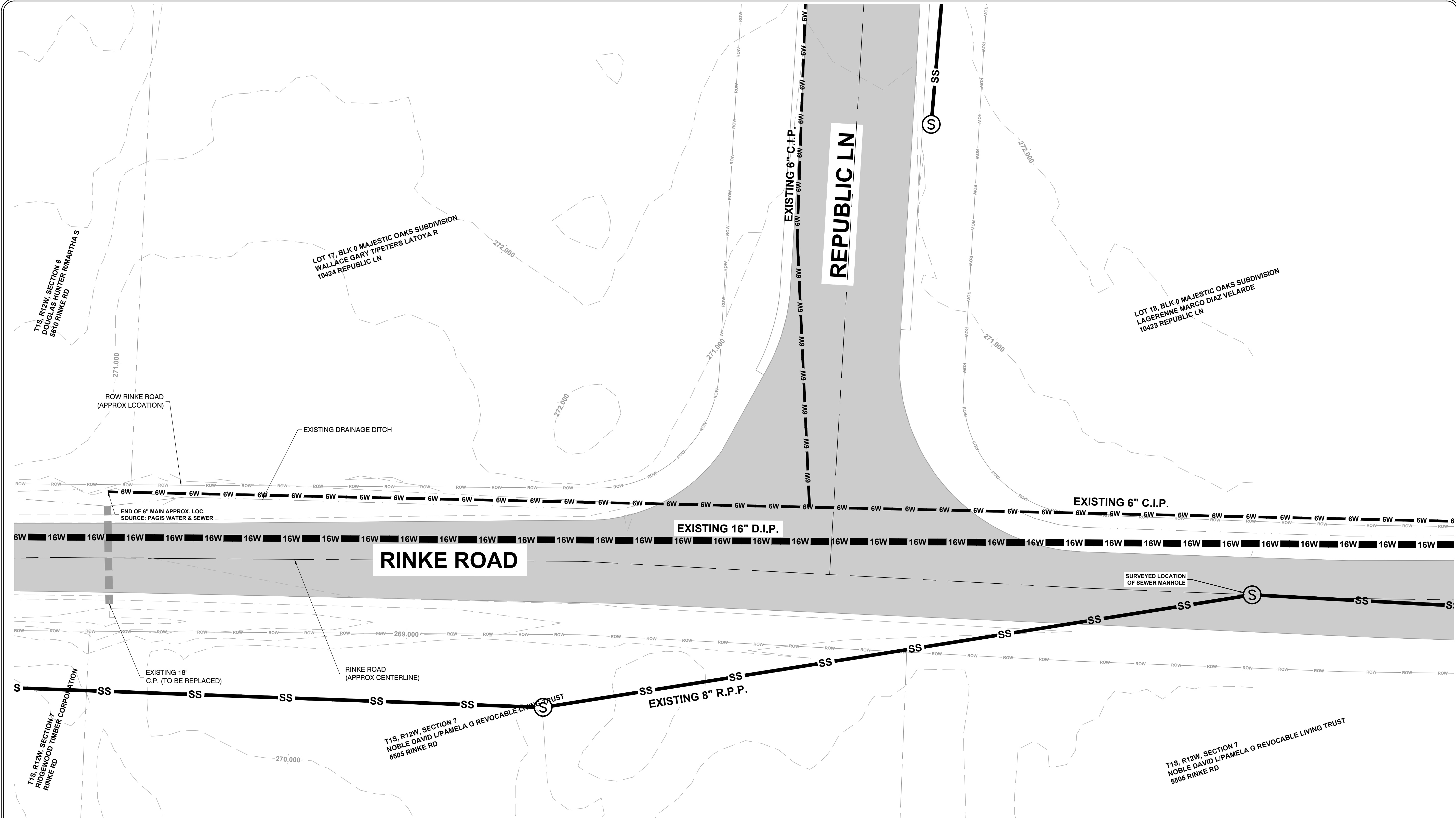
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RINKE ROAD AT REPUBLIC DRAINAGE IMPROVEMENTS
 EXISTING CONDITIONS

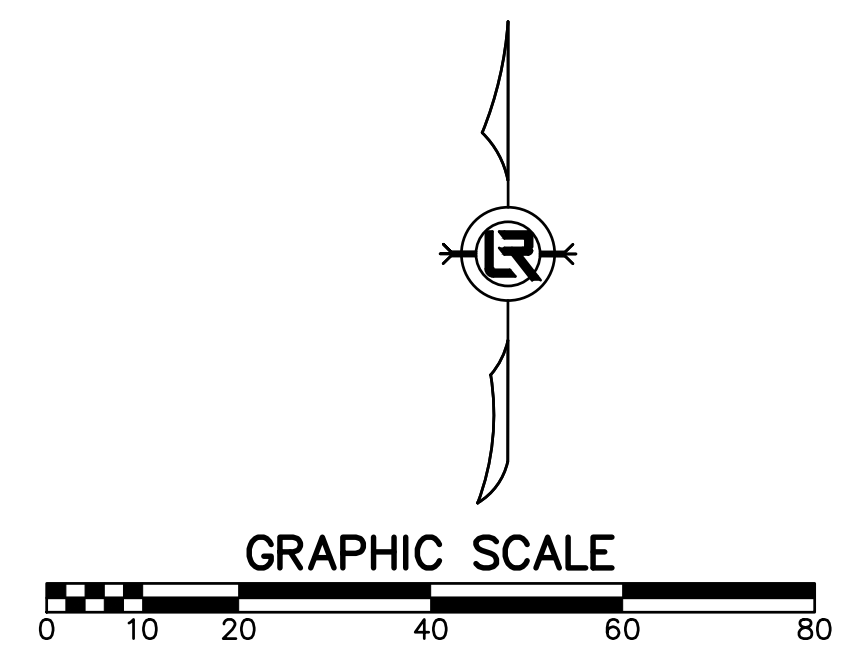
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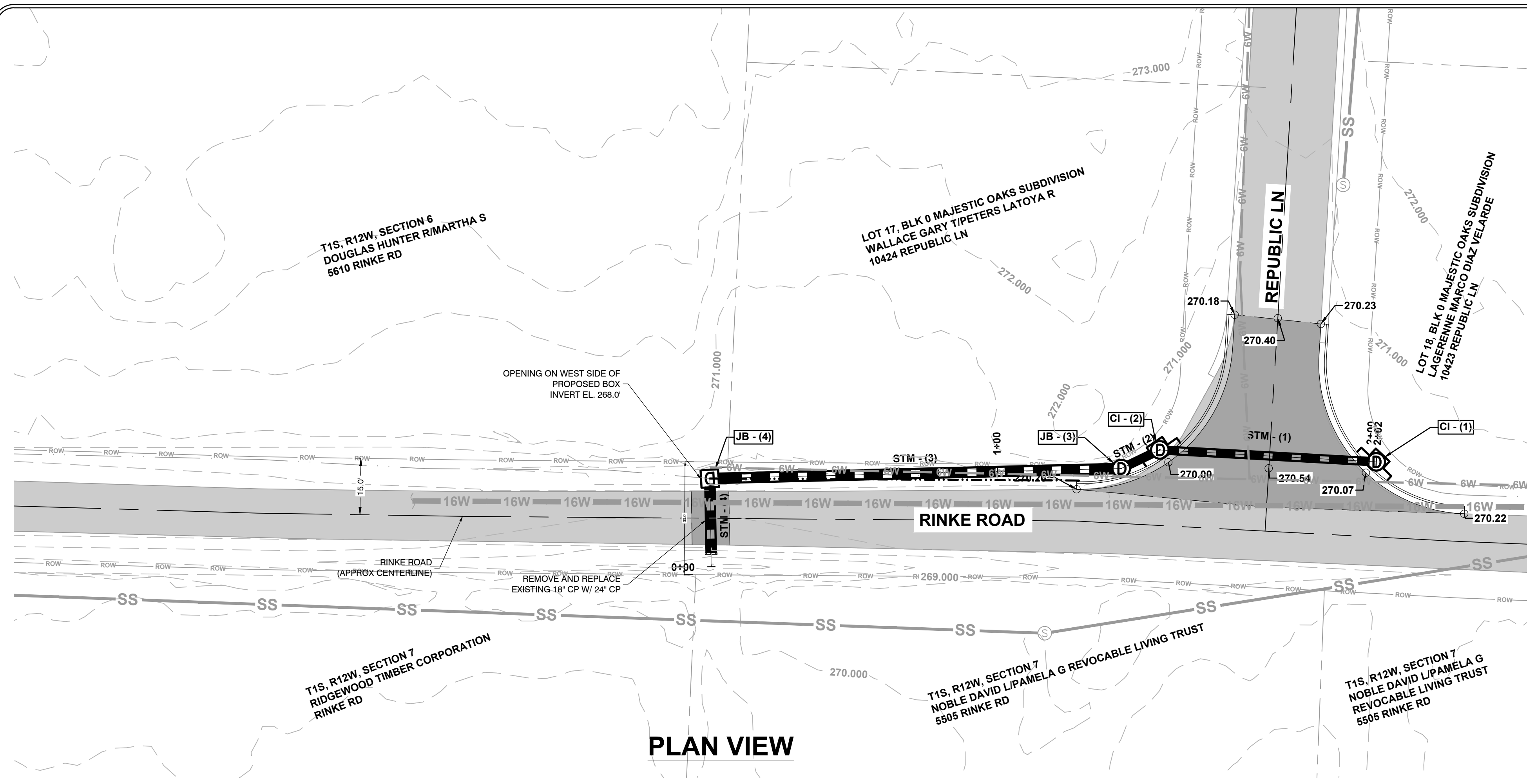
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- NOTES:**
- EXISTING UTILITIES ARE APPROXIMATE LOCATIONS BASED ON PAGIS WATER / WASTEWATER & LRWA SEWER MAP UNLESS OTHERWISE NOTED ON PLANS
 - EXISTING SEWER MAIN MATERIAL IS REINFORCED PLASTIC PIPE ACCORDING TO LRWA SEWER MAP
 - EXISTING WATER MAINS IN PROJECT VICINITY ARE CAST IRON PIPE AND DUCTILE IRON PIPE ACCORDING TO PAGIS WATER / WASTEWATER MAP

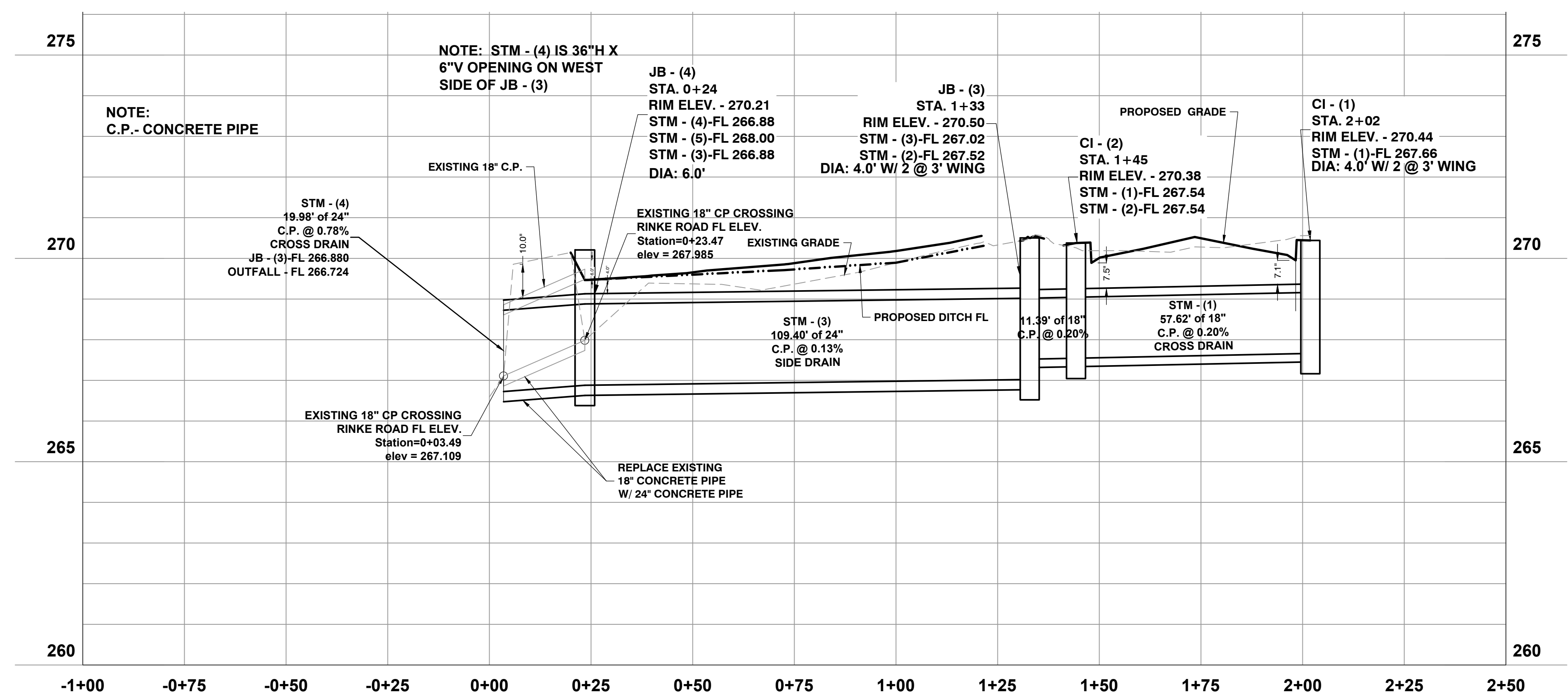
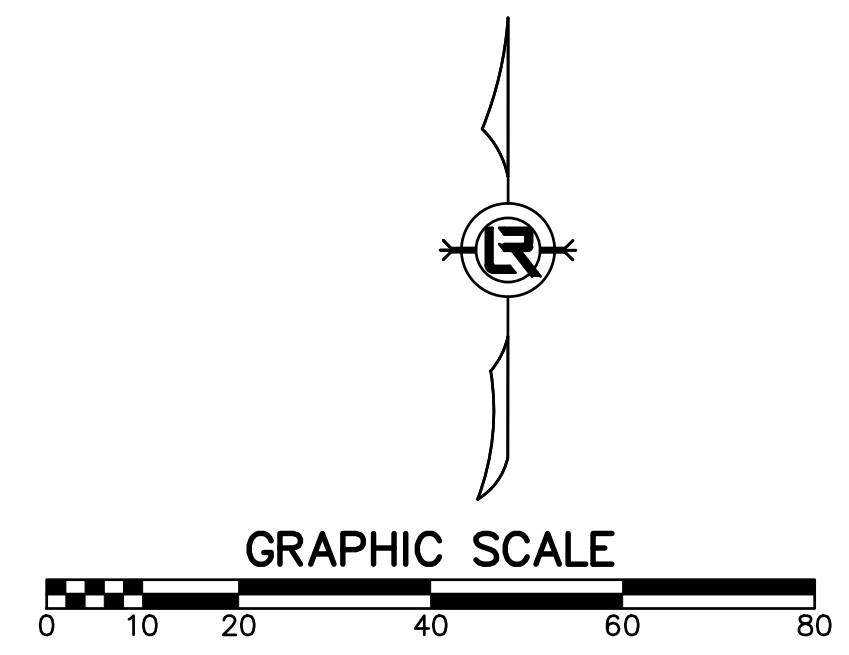




PLAN VIEW

NOTES:

1. PROPOSED SPOT ELEVATIONS DISPLAYED ON PLAN ARE EDGE OF CURB/PAVEMENT OR PROPOSED CENTERLINE.
2. ALL PROPOSED SPOT ELEVATIONS ARE FINISHED GRADE/FINISHED PAVEMENT
3. EXISTING UNDERGROUND UTILITIES SHOWN ON DRAINAGE PLAN ARE APPROXIMATE LOCATIONS ONLY BASED UPON PAGIS AND LRWA (LITTLE ROCK WATER RECLAMATION AUTHORITY) UTILITY MAPS.
4. UNDERGROUND UTILITIES MUST BE LOCATED AND MARKED PRIOR TO GROUND DISTURBING ACTIVITIES
5. CONTRACTOR MUST CALL ONE CALL TO MARK UNDERGROUND UTILITIES PRIOR TO BEGINNING WORK



PROFILE VIEW

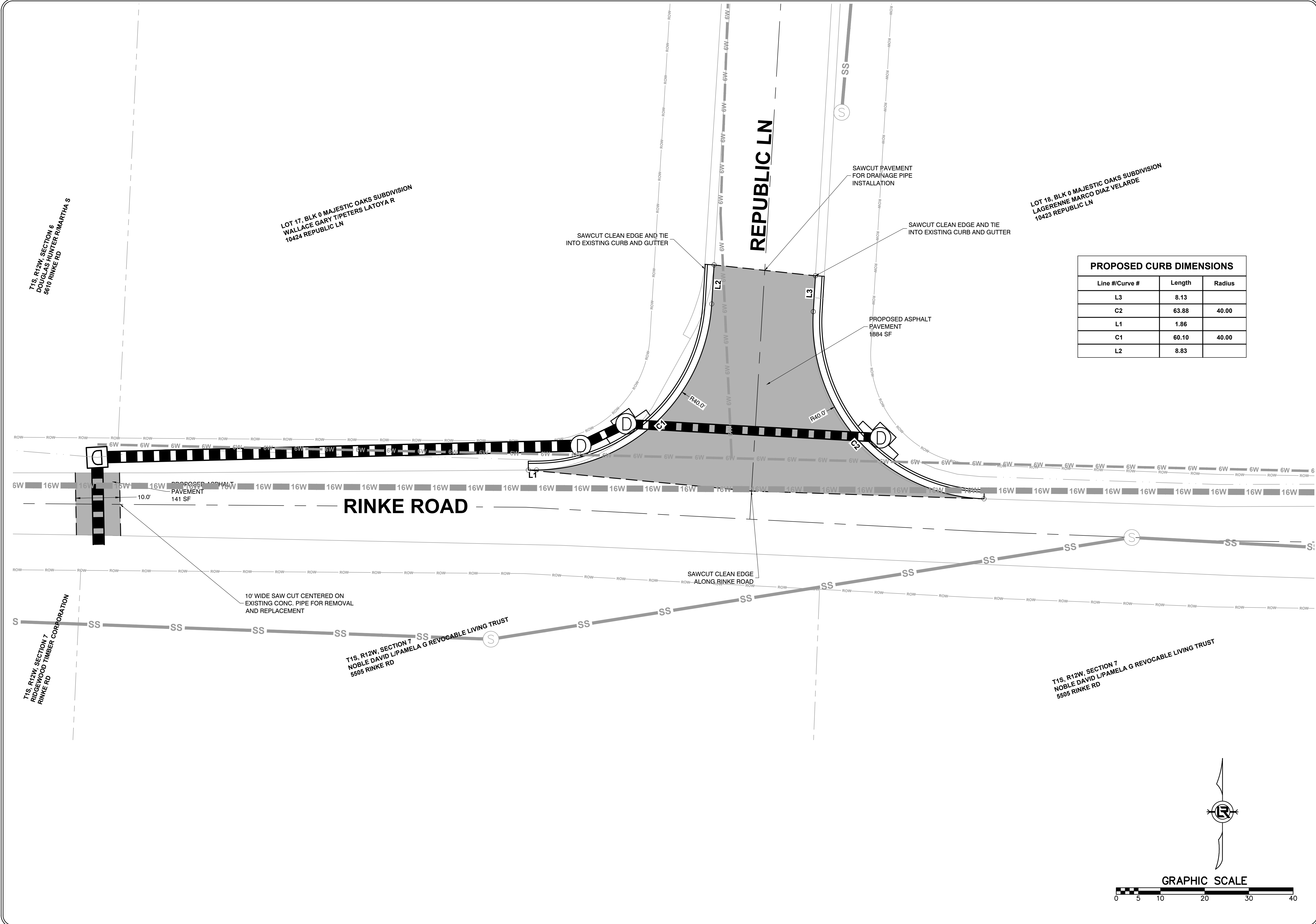
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CITY OF LITTLE ROCK, ARKANSAS
 RINKE ROAD AT REPUBLIC DRAINAGE IMPROVEMENTS
 DRAINAGE PLAN & PROFILE

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PROPOSED CURB DIMENSIONS

Line #/Curve #	Length	Radius
L3	8.13	
C2	63.88	40.00
L1	1.86	
C1	60.10	40.00
L2	8.83	

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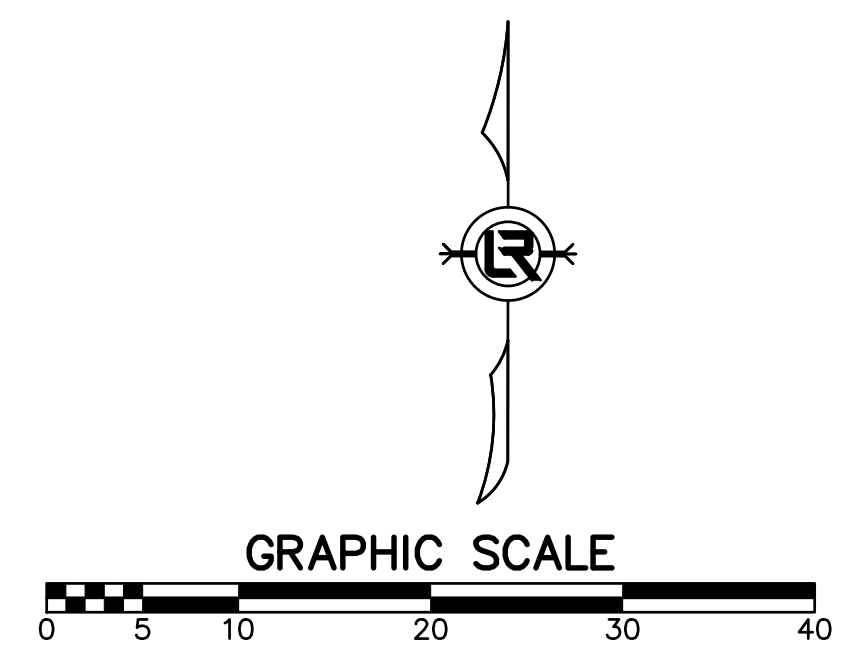
CITY OF LITTLE ROCK, ARKANSAS
RINKE ROAD AT REPUBLIC DRAINAGE IMPROVEMENTS
 STREET, CURB AND GUTTER DETAIL

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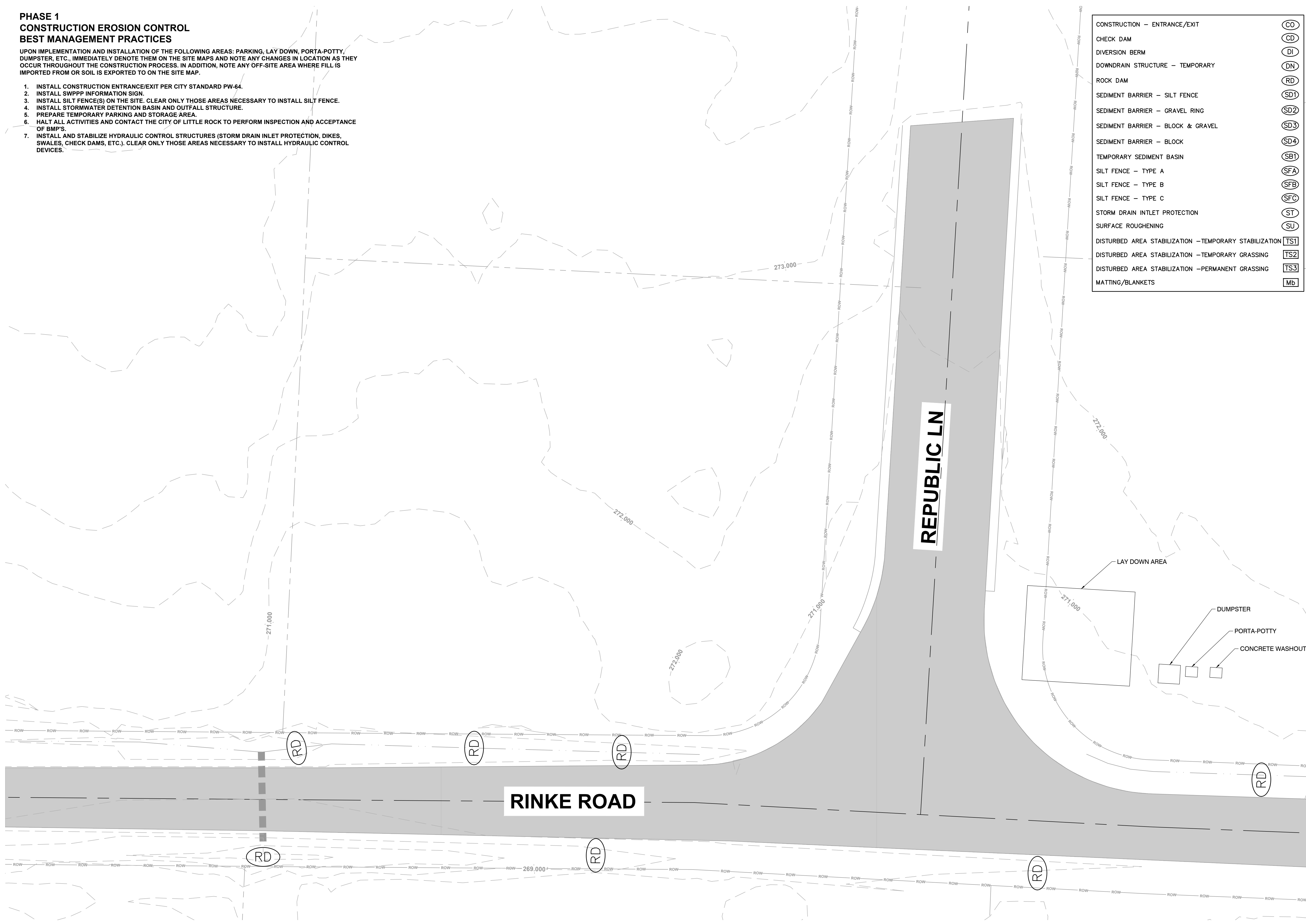


**PHASE 1
CONSTRUCTION EROSION CONTROL
BEST MANAGEMENT PRACTICES**

UPON IMPLEMENTATION AND INSTALLATION OF THE FOLLOWING AREAS: PARKING, LAY DOWN, PORTA-POTTY, DUMPSTER, 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 MAP.

1. INSTALL CONSTRUCTION ENTRANCE/EXIT PER CITY STANDARD PW-64.
2. INSTALL SWPPP INFORMATION SIGN.
3. INSTALL SILT FENCE(S) ON THE SITE. CLEAR ONLY THOSE AREAS NECESSARY TO INSTALL SILT FENCE.
4. INSTALL STORMWATER DETENTION BASIN AND OUTFALL STRUCTURE.
5. PREPARE TEMPORARY PARKING AND STORAGE AREA.
6. HALT ALL ACTIVITIES AND CONTACT THE CITY OF LITTLE ROCK TO PERFORM INSPECTION AND ACCEPTANCE OF BMP'S.
7. INSTALL AND STABILIZE HYDRAULIC CONTROL STRUCTURES (STORM DRAIN INLET PROTECTION, DIKES, SWALES, CHECK DAMS, ETC.). CLEAR ONLY THOSE AREAS NECESSARY TO INSTALL HYDRAULIC CONTROL DEVICES.


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	SB1
SILT FENCE – TYPE A	SFA
SILT FENCE – TYPE B	SFB
SILT FENCE – TYPE C	SFC
STORM DRAIN INTLET 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



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CITY OF LITTLE ROCK, ARKANSAS
RINKE ROAD AT REPUBLIC DRAINAGE IMPROVEMENTS
EROSION CONTROL PLAN PHASE 1

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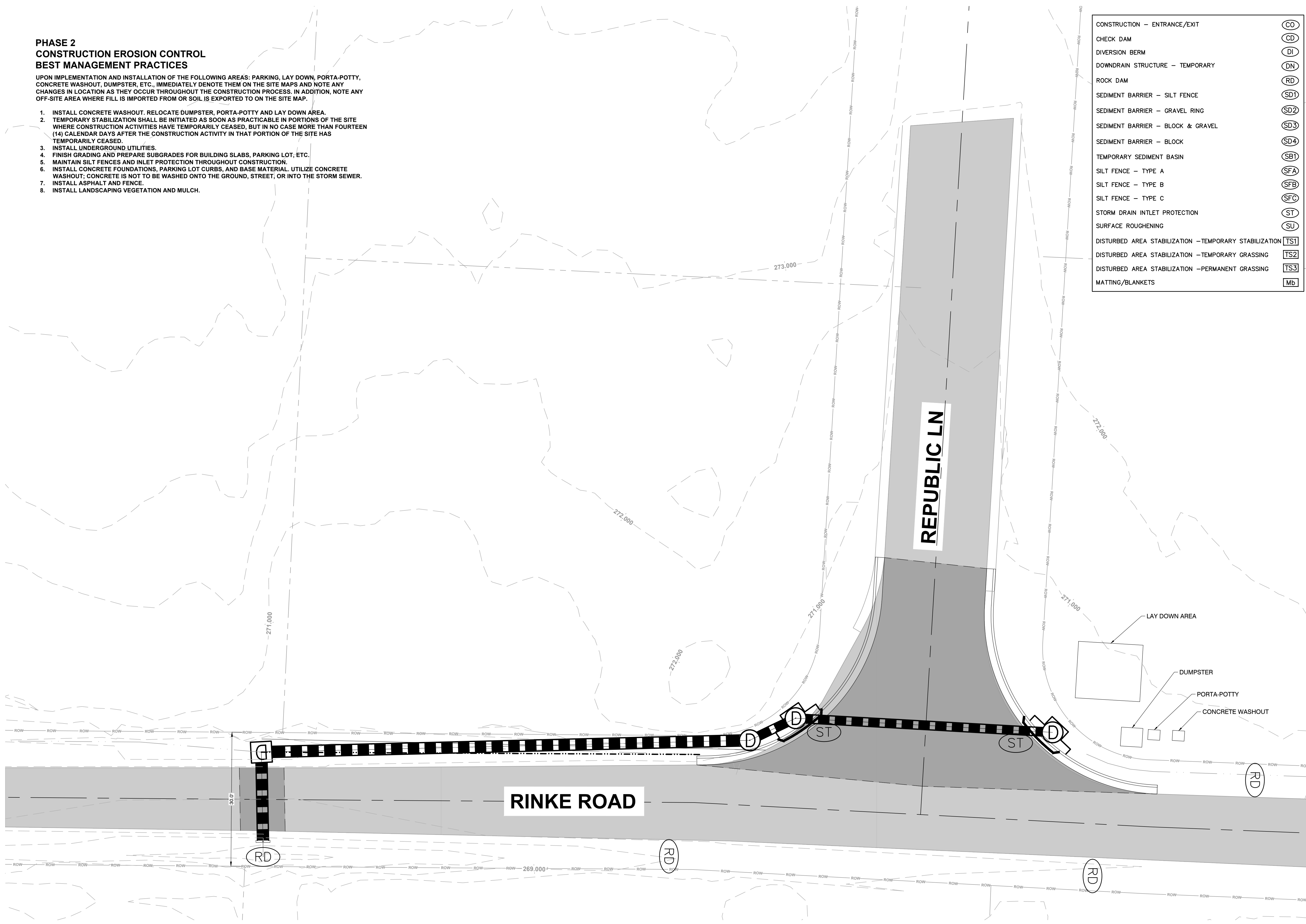
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**PHASE 2
CONSTRUCTION EROSION CONTROL
BEST MANAGEMENT PRACTICES**

UPON IMPLEMENTATION AND INSTALLATION OF THE FOLLOWING AREAS: PARKING, LAY DOWN, PORTA-POTTY, CONCRETE WASHOUT, DUMPSTER, 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 MAP.

1. INSTALL CONCRETE WASHOUT. RELOCATE DUMPSTER, PORTA-POTTY AND LAY DOWN AREA.
2. TEMPORARY STABILIZATION SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY CEASED, BUT IN NO CASE MORE THAN FOURTEEN (14) CALENDAR DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY CEASED.
3. INSTALL UNDERGROUND UTILITIES.
4. FINISH GRADING AND PREPARE SUBGRADES FOR BUILDING SLABS, PARKING LOT, ETC.
5. MAINTAIN SILT FENCES AND INLET PROTECTION THROUGHOUT CONSTRUCTION.
6. INSTALL CONCRETE FOUNDATIONS, PARKING LOT CURBS, AND BASE MATERIAL. UTILIZE CONCRETE WASHOUT; CONCRETE IS NOT TO BE WASHED ONTO THE GROUND, STREET, OR INTO THE STORM SEWER.
7. INSTALL ASPHALT AND FENCE.
8. INSTALL LANDSCAPING VEGETATION AND MULCH.


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	(SB1)
SILT FENCE - TYPE A	(SFA)
SILT FENCE - TYPE B	(SFB)
SILT FENCE - TYPE C	(SFC)
STORM DRAIN INTLET 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)



REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS
RINKE ROAD AT REPUBLIC DRAINAGE IMPROVEMENTS
EROSION CONTROL PLAN PHASE 2

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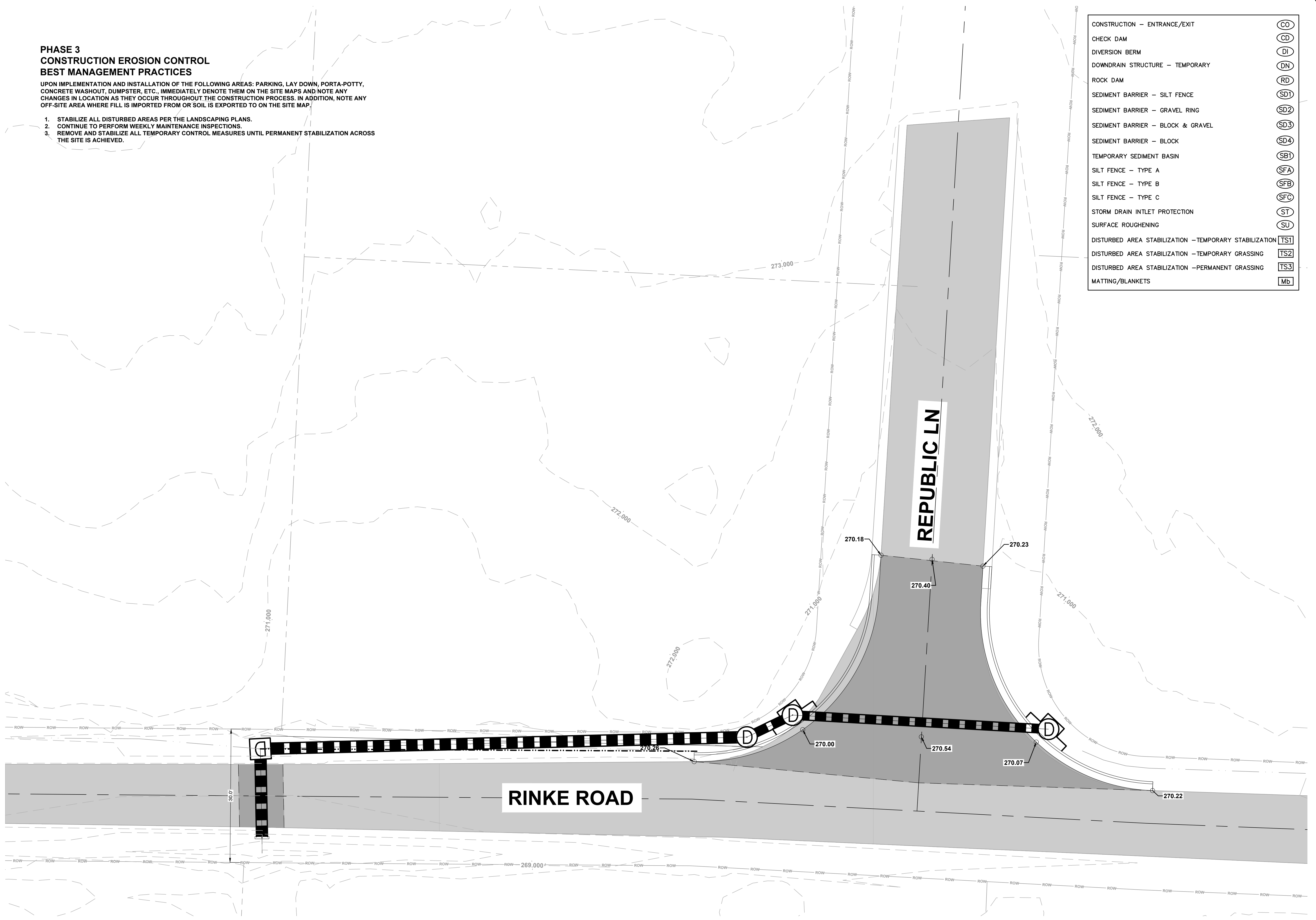
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**PHASE 3
CONSTRUCTION EROSION CONTROL
BEST MANAGEMENT PRACTICES**

UPON IMPLEMENTATION AND INSTALLATION OF THE FOLLOWING AREAS: PARKING, LAY DOWN, PORTA-POTTY, CONCRETE WASHOUT, DUMPSTER, 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 MAP.

1. STABILIZE ALL DISTURBED AREAS PER THE LANDSCAPING PLANS.
2. CONTINUE TO PERFORM WEEKLY MAINTENANCE INSPECTIONS.
3. REMOVE AND STABILIZE ALL TEMPORARY CONTROL MEASURES UNTIL PERMANENT STABILIZATION ACROSS THE SITE IS ACHIEVED.


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	(SB1)
SILT FENCE – TYPE A	(SFA)
SILT FENCE – TYPE B	(SFB)
SILT FENCE – TYPE C	(SFC)
STORM DRAIN INTLET 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)



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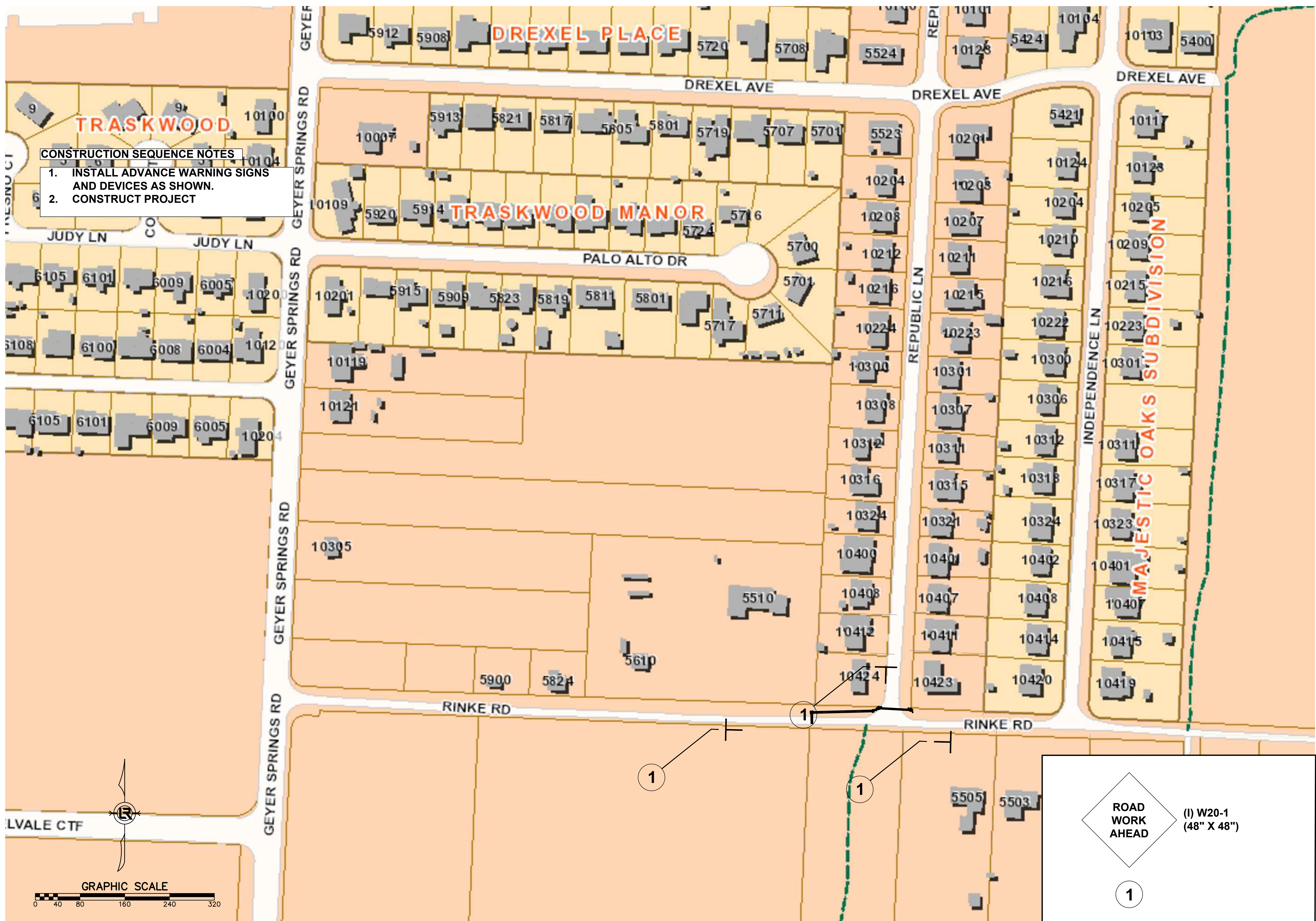
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RINKE ROAD AT REPUBLIC DRAINAGE IMPROVEMENTS
EROSION CONTROL PLAN PHASE 3

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 SHEET NO.
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- CONSTRUCTION SEQUENCE NOTES**
1. INSTALL ADVANCE WARNING SIGNS AND DEVICES AS SHOWN.
 2. CONSTRUCT PROJECT

REVISIONS	DATE


CITY OF LITTLE ROCK, ARKANSAS
 13TH STREET DRAINAGE IMPROVEMENTS
 MAINTENANCE OF TRAFFIC

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 CIVIL ENGINEERING
 701 W. MARKHAM
 LITTLE ROCK, ARKANSAS 72201



**15%
 REVIEW
 SET**

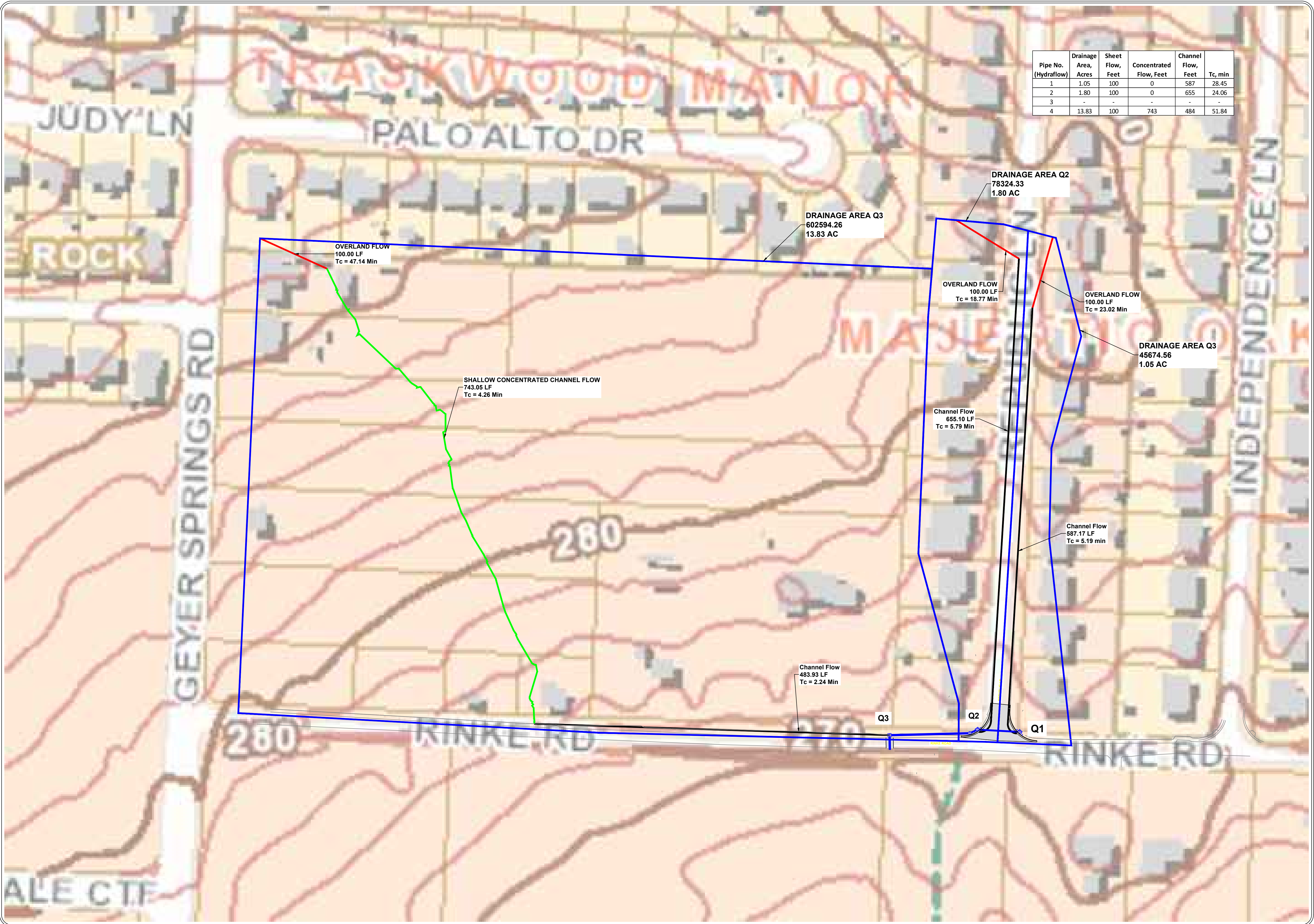
DRAWN BY
 JNS
 DESIGNED
 JNS
 CHECKED
 AHR
 DATE
 1/25/2024
 SCALE
 1" = 40'
 PROJECT NO.
 CLR # 02-22-DR-08
 SHEET NO.
C6



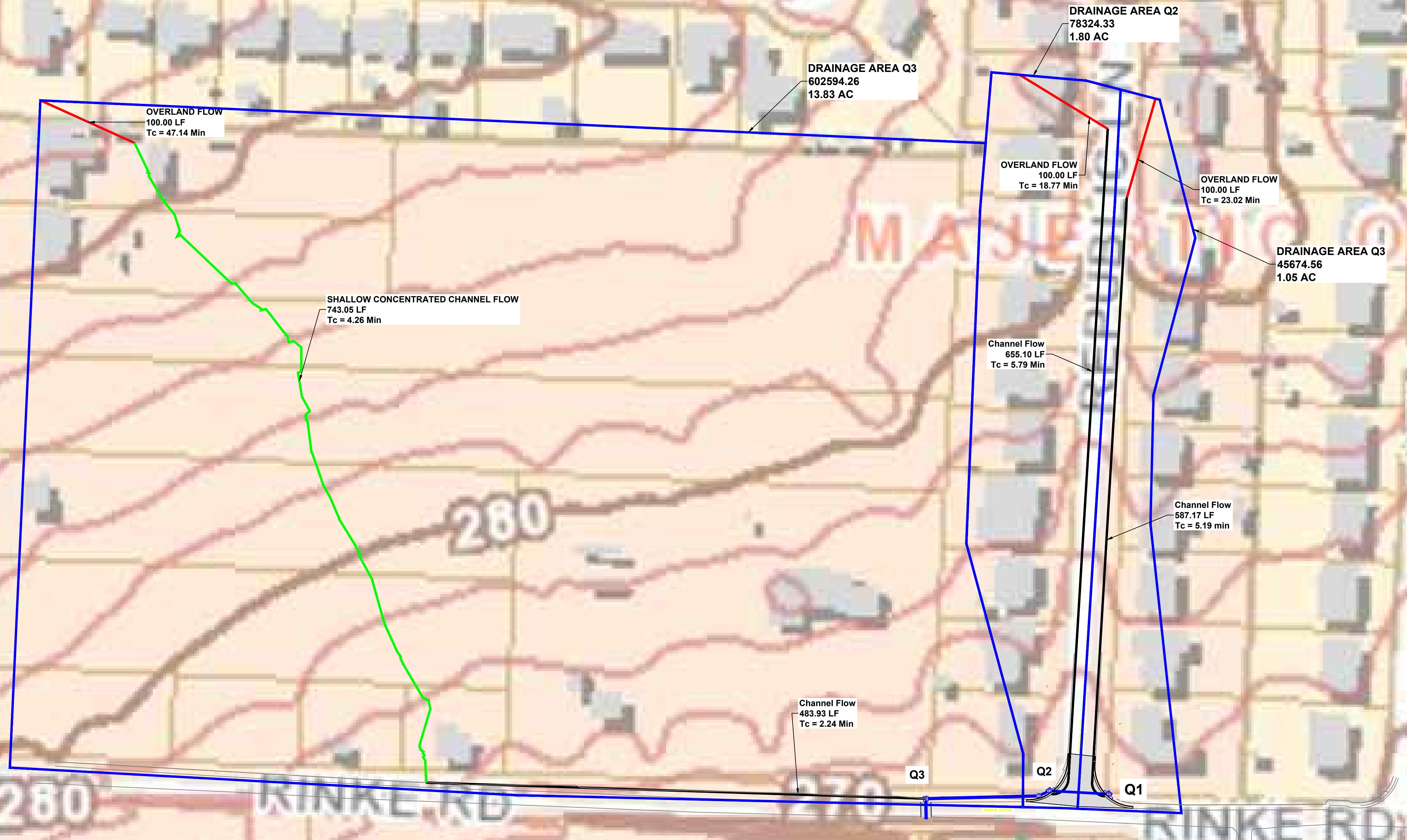
**ROAD
 WORK
 AHEAD**

(I) W20-1
 (48" X 48")

1



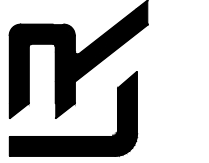
Pipe No. (Hydraflow)	Drainage Area, Acres	Sheet Flow, Feet	Concentrated Flow, Feet	Channel Flow, Feet	Tc, min
1	1.05	100	0	587	28.45
2	1.80	100	0	655	24.06
3	-	-	-	-	-
4	13.83	100	743	484	51.84



REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS
RINKE ROAD DRAINAGE IMPROVEMENTS
WATERSHED MAP

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



**15%
REVIEW
SET**

DRAWN BY
JNS
DESIGNED
JNS
CHECKED
AHR
DATE
2/23/2024
SCALE
1" = 60'
PROJECT NO.
CLR # 02-22-DR-08
SHEET NO.
D1