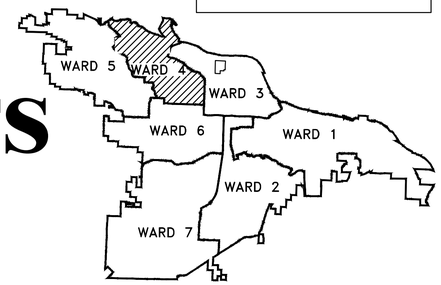
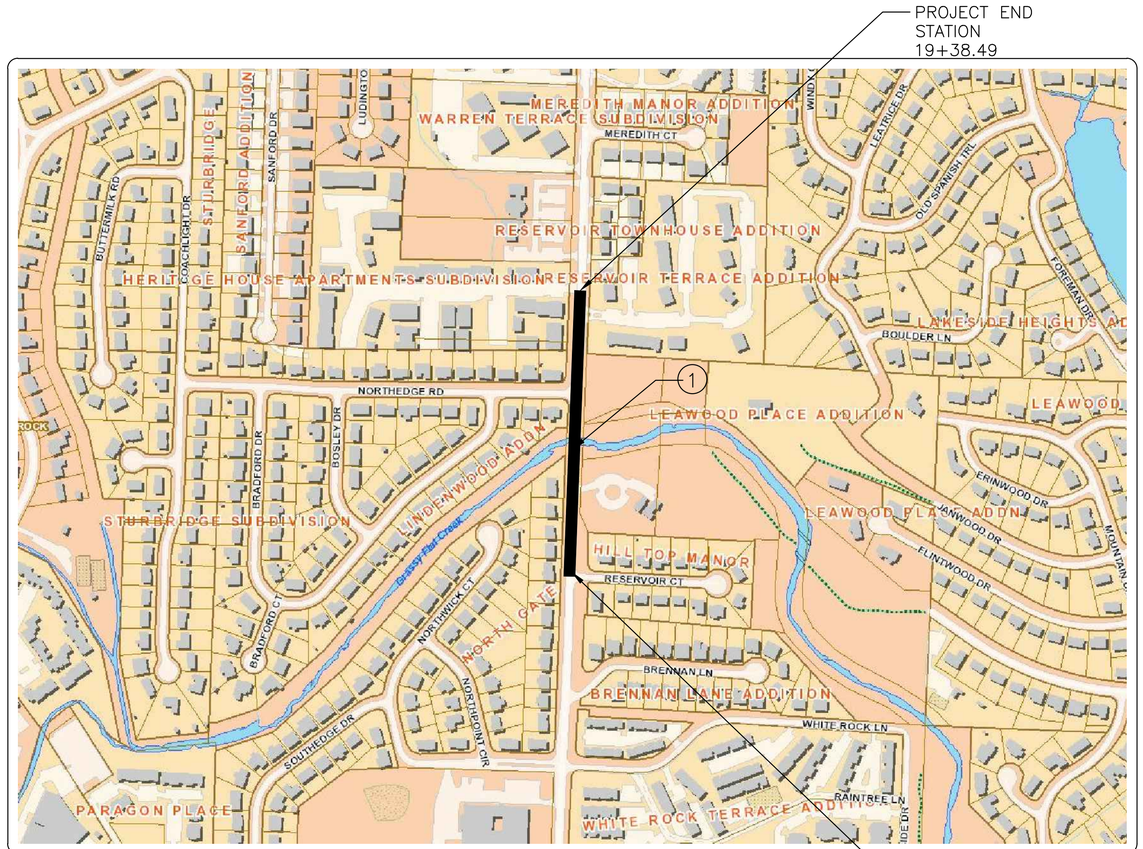
60% SUBMITTAL

CLR PROJECT 04-17ST-202A
RESEVOIR ROAD IMPROVEMENTS
(RESERVOIR CT. TO NORTHEDGE RD.)



PROJECT LOCATION – WARD 4



LOCATION

Sheet List Table	
Sheet Number	Sheet Title
C1	COVER SHEET
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C8	STRIPING PLAN
C9	MAINTANCE OF TRAFFIC PLAN
C10	EROSION CONTROL PLAN
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L1	LAYOUT OF BRIDGE OVER GRASSY FLAT CREEK SHEET 1 OF 2
L2	LAYOUT OF BRIDGE OVER GRASSY FLAT CREEK SHEET 1 OF 2

PUBLIC WORKS · CITY OF LITTLE ROCK ·

BRIDGE DATA

① STA. 13+06.70 BRIDGE END
BRIDGE NUMBER 04143
PRECAST CONCRETE SPANS (3@19'–0")
38'–6" CLEAR ROADWAY
57'–0" BRIDGE LENGTH
STA. 13+63.70 BRIDGE END

2019-2021
BOND PROGRAM

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

811 Know what's below. Call before you dig.

10825 Financial Center Parkway, Suite 300
Little Rock, Arkansas 72211
Crafton Tull
engineering | surveying
501.664.3245 t 501.664.6704 f
www.craftontull.com
CERTIFICATE OF AUTHORIZATION:
CTA# 18804904
CERTIFICATE OF AUTHORIZATION
CRAFTON TULL & ASSOCIATES, INC.
No. 109
ARKANSAS ENGINEER

REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS
RESERVOIR ROAD IMPROVMENTS

COVER SHEET

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

DRAWN BY	TH
DESIGNED	MLB
CHECKED	BAP
DATE	05-20-2019
PROJECT NO.	04-17ST-202A
SHEET NO.	C1

60% SUBMITTAL

OPINION OF PROBABLE CONSTRUCTION COSTS - 60%			
	CLR PROJECT # 04-17ST-202A		
	RESERVOIR ROAD STREET & DRAINAGE IMPROVEMENTS		
	5/20/2019		
ITEM	DESCRIPTION OF	CONTRACT	UNIT
NO.	ITEMS	QUANTITY	
2.01	SITE PREPARATION	1	L.S.
3.30	BORROW MATERIAL	115	C.Y.
3.40	TOPSOIL	82	C.Y.
4.01	AGGREGATE BASE COURSE	96	TON
5.01	TACK COAT	91	GAL
6.01	ACHM SURFACE COURSE	414	TON
7.06	CONCRETE DRIVEWAY (6" THICK), STANDARD FINISH	501	S.F.
8.03	CONCRETE CURB & GUTTER (CLASS 3)	465	L.F.
9.04	CONCRETE SIDEWALK (4" THICK)	1385	S.F.
10.04	CURB INLET - 4' BOX	3	EA
10.07	WING 3' EXTENSION	4	EA
11.06	REINFORCED CONCRETE HEADWALL	3	C.Y.
13.15	SIDE DRAIN, 18" HDPE	90	L.F.
14.01	SOLID SODDING (BERMUDA)	488	S.Y.
16.01	MAINTENANCE OF TRAFFIC	1	L.S.
18.55	WATER FOR DUST CONTROL	20000	GAL
19.01	CLEAN UP	1	L.S.
24.02	CHECK DAM (CD)	0	C.Y.
24.06	SEDIMENT BARRIER, SILT FENCE (SD1)	3	EA
24.09	SEDIMENT BARRIER, BLOCK (SD4)	3	EA
24.11	SILT FENCE - TYPE A (SFA)	496	L.F.
24.17	DISTURBED AREA STABILIZATION - TEMPORARY GRASSING (TS2)	0.1	AC
26.10	TRENCH & EXCAVATION SAFETY	1	L.S.
27.10	COLD MILLING ASPHALT PAVEMENT	1763	SY
29.10	PROJECT INFORMATION KIOSK (PW-18)	1	L.S.
28.01	GUARD RAIL	101	L.F.
309.06	PORTLAND CEMENT CONCRETE BASE (8" U.T.)	294	S.Y.
636	BRIDGE CONSTRUCTION CONTROL	1	L.S.
719.04W	THERMOPLASTIC PAVEMENT MARKING WHITE (4")	1240	L.F.
719.04Y	THERMOPLASTIC PAVEMENT MARKING YELLOW (4")	1320	L.F.
801.00	UNCLASSIFIED EXCAVATION FOR STRUCTURES - BRIDGE	0	C.Y.
802.00	31" PRECAST CONC. INTERIOR UNITS	0	EA
802.00	31" PRECAST CONC. CURB UNITS	0	EA
802.00	31" PRECAST PARAPET RAIL UNITS	0	EA
802.00	CLASS S CONCRETE - BRIDGE	0	C.Y.
804.00	REINFORCING STEEL - BRIDGE (GRADE 60)	0	LB
812	BRIDGE NAME PLATE (TYPE SPECIAL)	0	EA
816.00	FILTER BLANKET	0	S.Y.
816	DUMPED RIP RAP	0	C.Y.
821	MODIFICATION OF EXISTING BRIDGE STRUCTURE (BRIDGE NO. 04143)	1	L.S.
	BRIDGE CONSTRUCTION AND MODIFICATIONS	1	L.S.

EXISTING

- IRON ROD — O IR
- PK NAIL — O PK
- R.R. SPIKE — O RR(Sp)
- CONC. MONUMENT — □ CM
- WATER VALVE — 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 — T
- ELECTRIC BOX — E
- CABLE BOX — C
- UTILITY POLE
- GUY WIRE
- LIGHT POLE
- POST OR POLE (TYPE AS NOTED)
- MAILBOX
- DECIDUOUS TREE
- EVERGREEN/CONIFEROUS TREE
- BUSH
- PROPERTY LINE
- SETBACK LINE
- EASEMENT LINE
- CURB
- FENCE — X X X
- OVERHEAD ELECTRIC — OE
- OVERHEAD TELEPHONE — OT
- OVERHEAD CABLE — OC
- UNDERGROUND TELEPHONE — UGT
- UNDERGROUND ELECTRIC — UGE
- UNDERGROUND CABLE — UGC
- WATER LINE — 8"W
- SEWER LINE — 8"SS
- GAS LINE — 4"G
- STORM SEWER/CULVERT — 24" CMP/RCP/DIP
- EDGE OF WOODS
- CONTOUR LINE — 650

PROPOSED

- PROPOSED CONTOUR — 25
- PROPOSED SPOT ELEVATION — 25.00
- PROPOSED SPOT CURB ELEVATION — 25.50 / 25.00
- STORM SEWER – PIPE
- STORM SEWER – MITERED END SECTION
- STORM SEWER – GRATE INLET
- STORM SEWER – JUNCTION BOX — (D) [D]
- STORM SEWER – FLARED END SECTION
- STORM SEWER – HEADWALL
- STORM SEWER – SINGLE WING — D
- STORM SEWER – DOUBLE WING — D
- STORM SEWER – AREA INLET — [D]
- GRADE BREAK LINE
- HIGH POINT — HP
- LOW POINT — LP
- CUT LINE — C
- FILL LINE — F
- SANITARY SEWER PIPE — SAN
- SANITARY SEWER MANHOLE — (S)
- PROPOSED CURB
- PROPOSED CONCRETE
- 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 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

REVISIONS	DATE

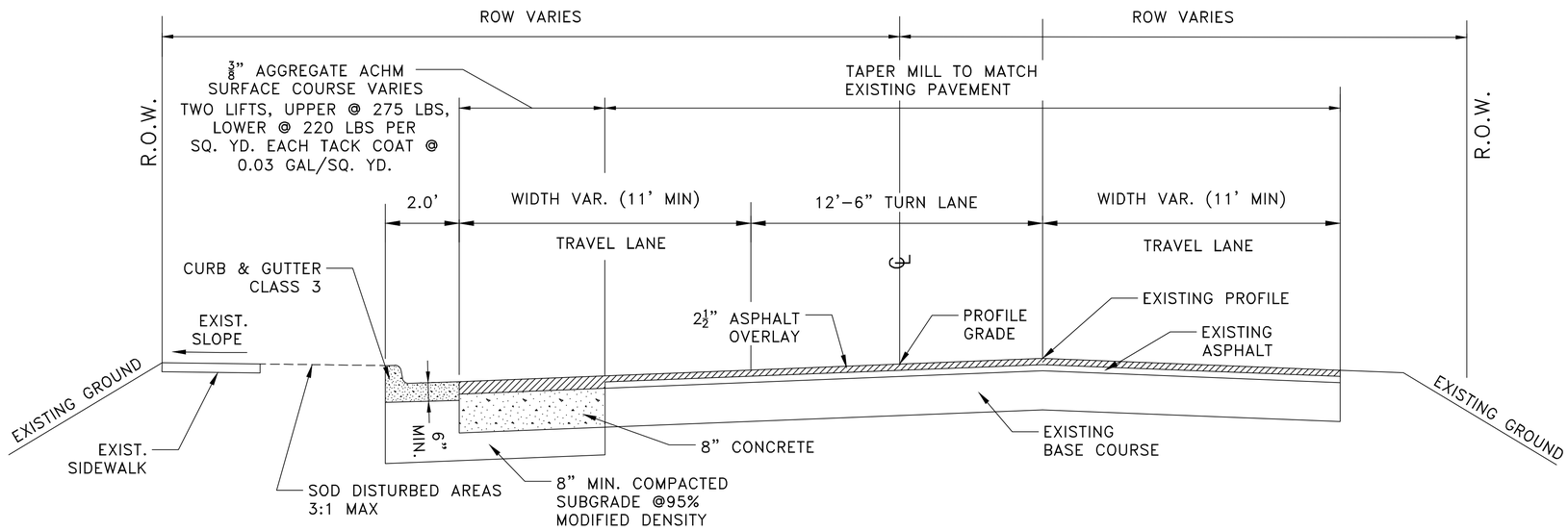
CITY OF LITTLE ROCK, ARKANSAS
RESERVOIR ROAD IMPROVMENTS

GENERAL NOTES, LEGEND AND QUANTITIES

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

DRAWN BY	TH
DESIGNED	MLB
CHECKED	BAP
DATE	05-20-2019
SCALE	
PROJECT NO.	04-17ST-202A
SHEET NO.	C2

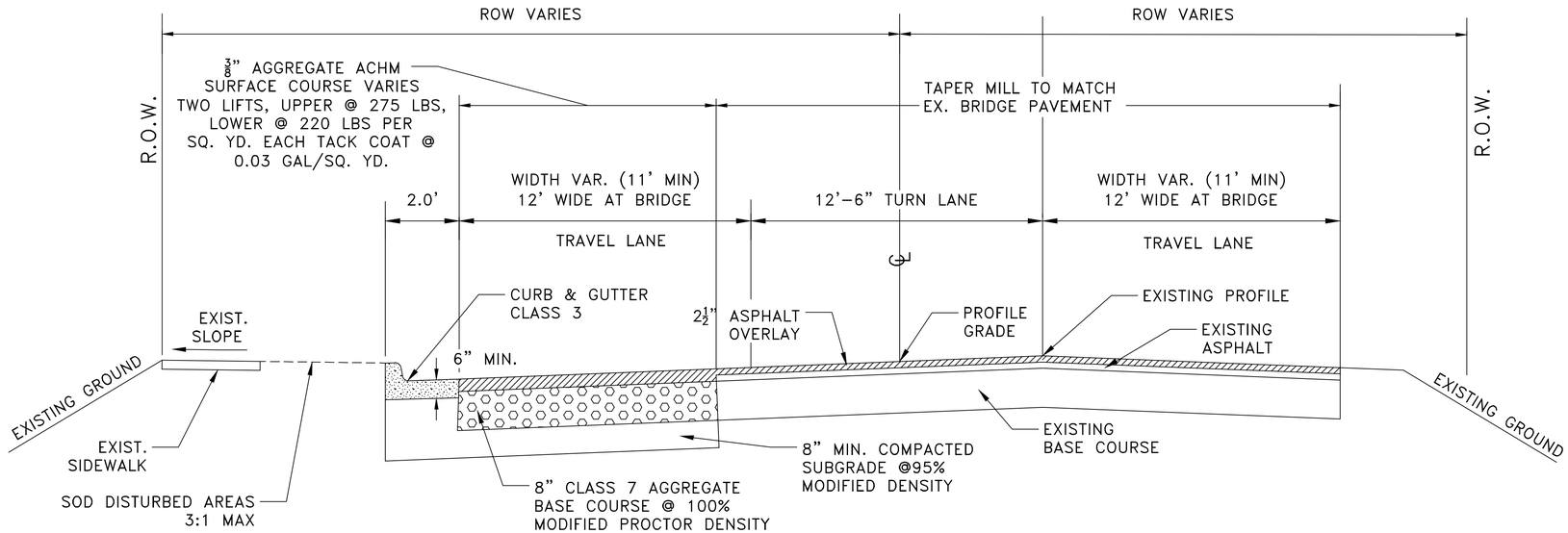
60% SUBMITTAL



TYPICAL SECTION - RESERVOIR RD: RESERVOIR CT TO NORTHEDGE RD

Sta 10+53.60 to Sta 11+88.15

Transition Cross Slope to Match Existing for first 50' and last 50' of Street



TYPICAL SECTION - RESERVOIR RD: RESERVOIR CT TO NORTHEDGE RD

Sta 11+88.15 to Sta 13+06.58

REVISIONS	DATE

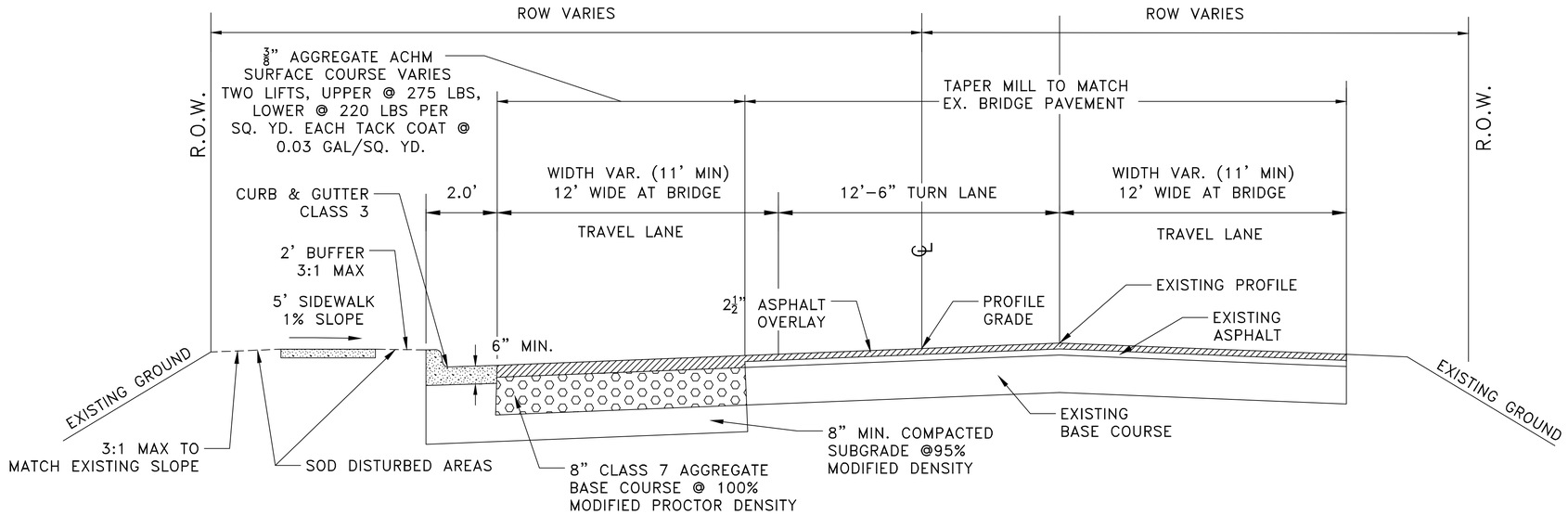
CITY OF LITTLE ROCK, ARKANSAS
RESERVOIR ROAD IMPROVMENTS

TYPICAL SECTION SHT. 1

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

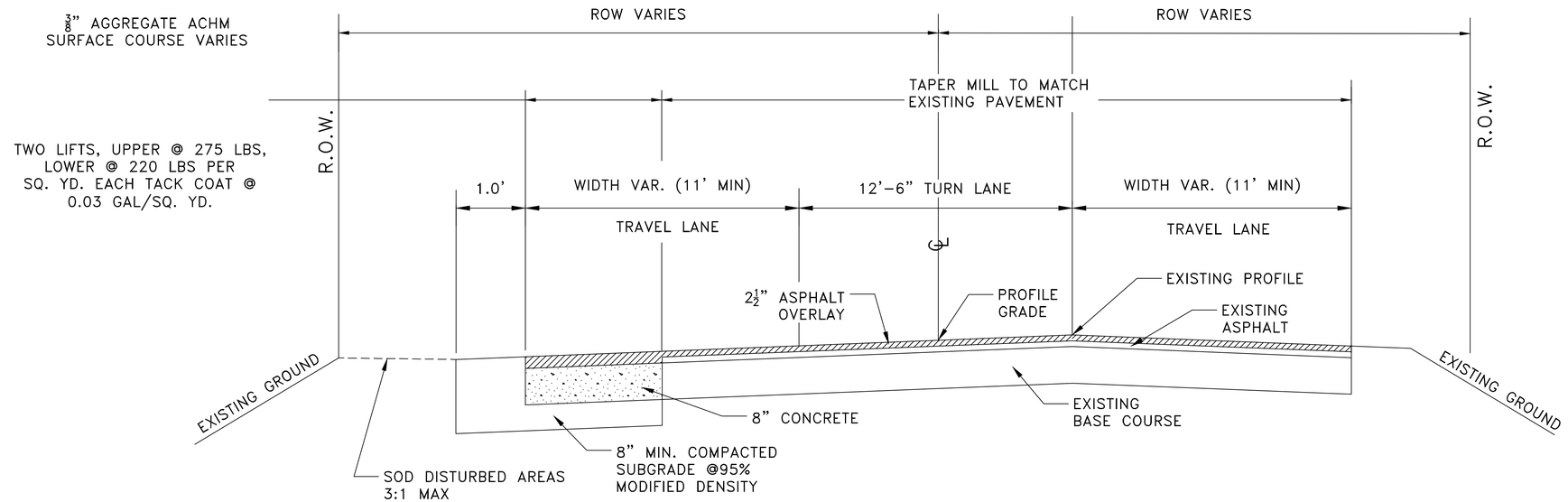
DRAWN BY	TH
DESIGNED	MLB
CHECKED	BAP
DATE	05-20-2019
SCALE	H: 1"=20' V: 1"=5'
PROJECT NO.	04-17ST-202A
SHEET NO.	C3

60% SUBMITTAL



TYPICAL SECTION - RESERVOIR RD: RESERVOIR CT TO NORTHEDGE RD

Sta 13+63.68 to Sta 15.51.71



TYPICAL SECTION - RESERVOIR RD: RESERVOIR CT TO NORTHEDGE RD

Sta 16+40.08 to Sta 18+84.68 (END)

Transition Cross Slope to Match Existing for first 50' and last 50' of Street

REVISIONS	DATE

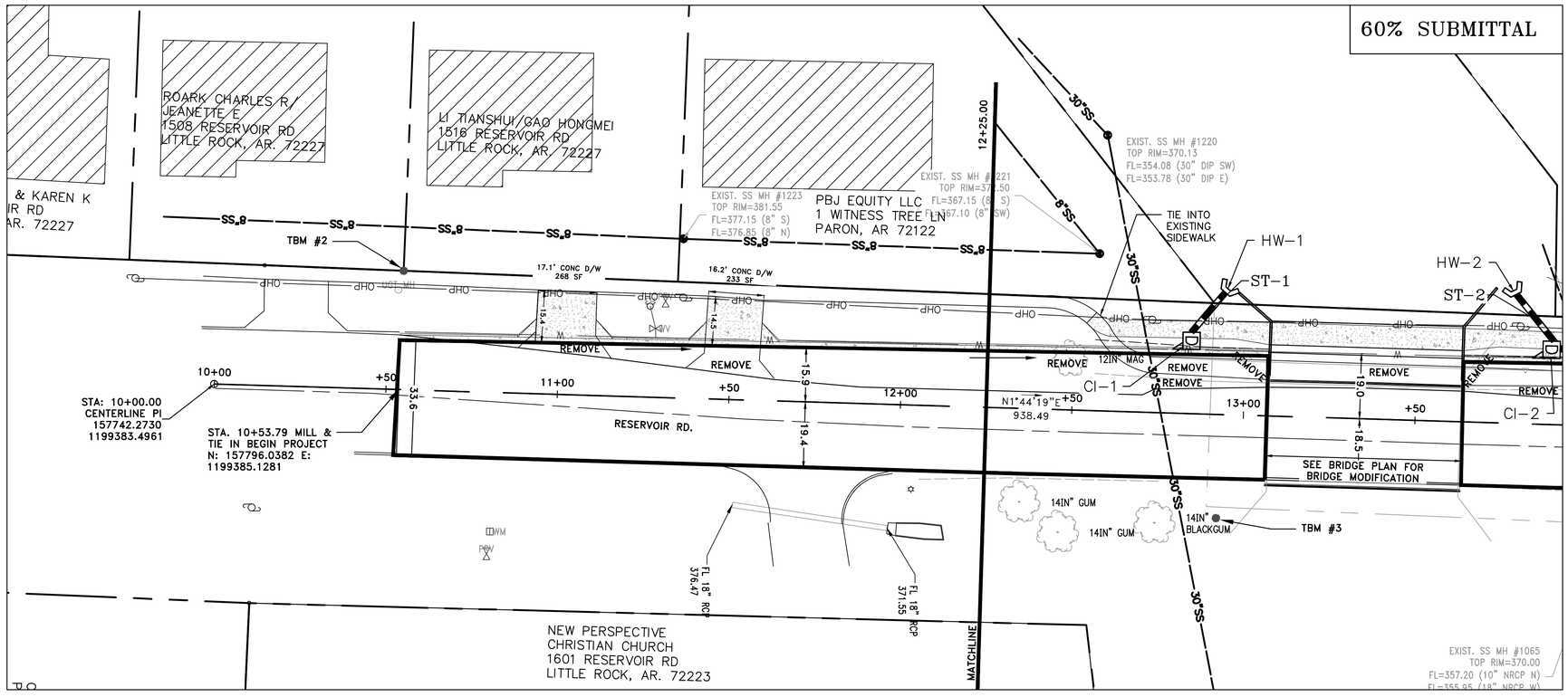
CITY OF LITTLE ROCK, ARKANSAS
RESERVOIR ROAD IMPROVMENTS

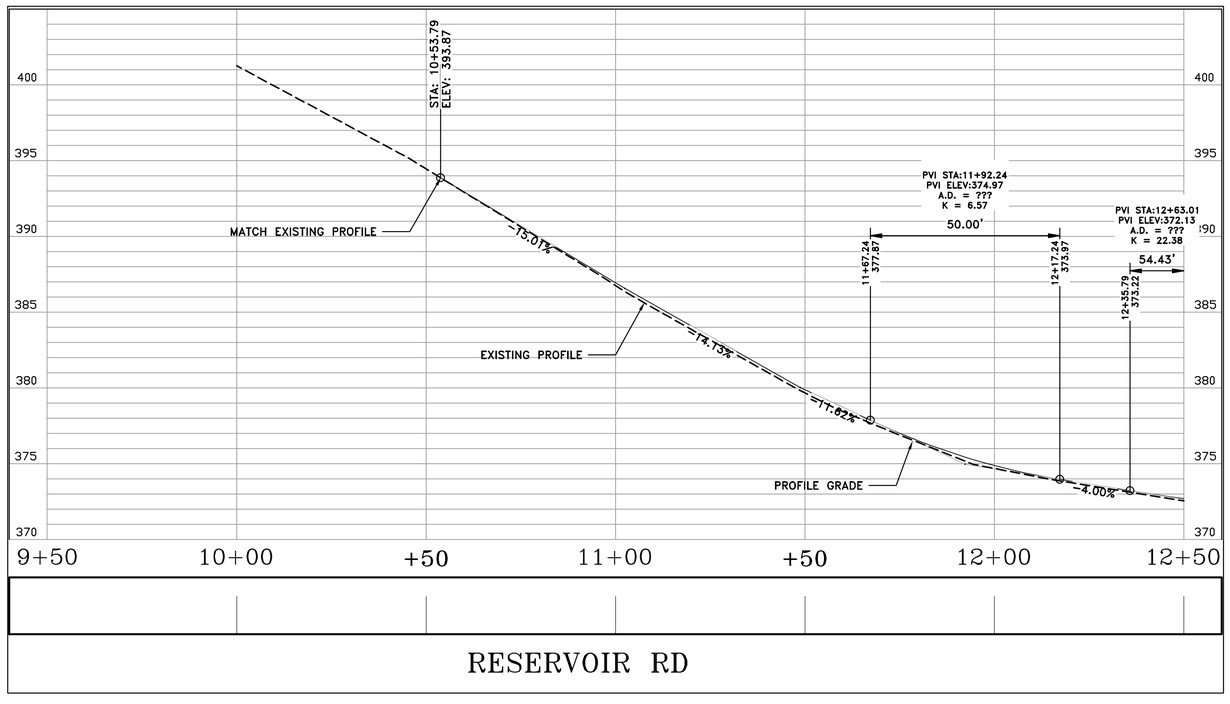
TYPICAL SECTION SHT. 2

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

DRAWN BY	TH
DESIGNED	MLB
CHECKED	BAP
DATE	05-20-2019
SCALE	H: 1"=20' V: 1"=5'
PROJECT NO.	04-17ST-202A
SHEET NO.	C4

60% SUBMITTAL





RESERVOIR RD

GRAPHIC SCALE
0 10 20 40 60 80

POINT TABLE				
POINT #	DESCRIPTION	NORTHING	EASTING	ELEVATION
TBM 1	FIP R4	158412.40	1199449.56	374.74
TBM 2	FIP R4	157797.46	1199350.47	394.08
TBM 3	FIP R4	158034.13	1199422.61	365.67

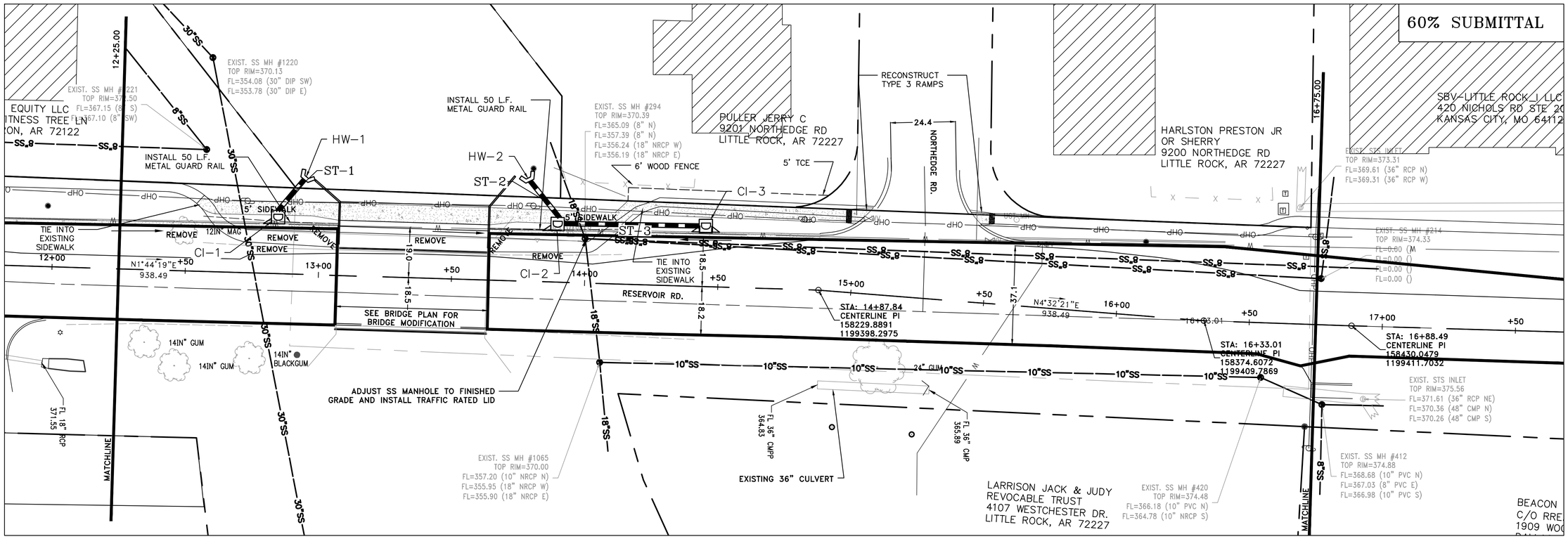
REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS
RESERVOIR ROAD IMPROVMENTS
P&P SHEET 1

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

DRAWN BY	TH
DESIGNED	MLB
CHECKED	BAP
DATE	05-20-2019
SCALE	H: 1"=20' V: 1"=5'
PROJECT NO.	04-17ST-202A
SHEET NO.	C5

60% SUBMITTAL



GRAPHIC SCALE

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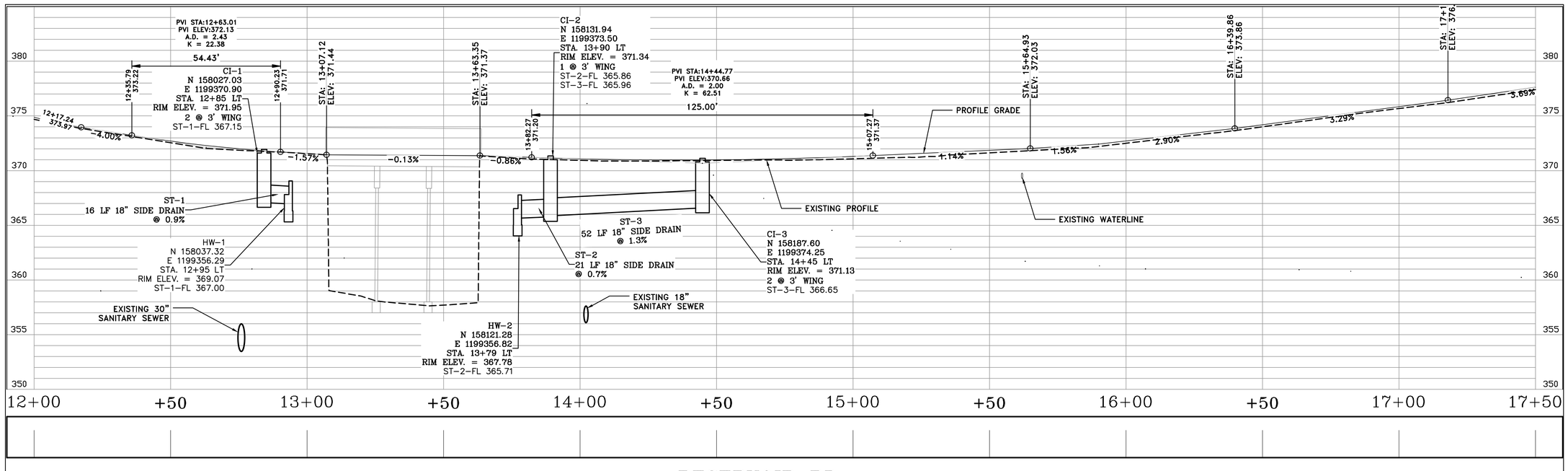


RESERVOIR RD

REVISIONS	DATE

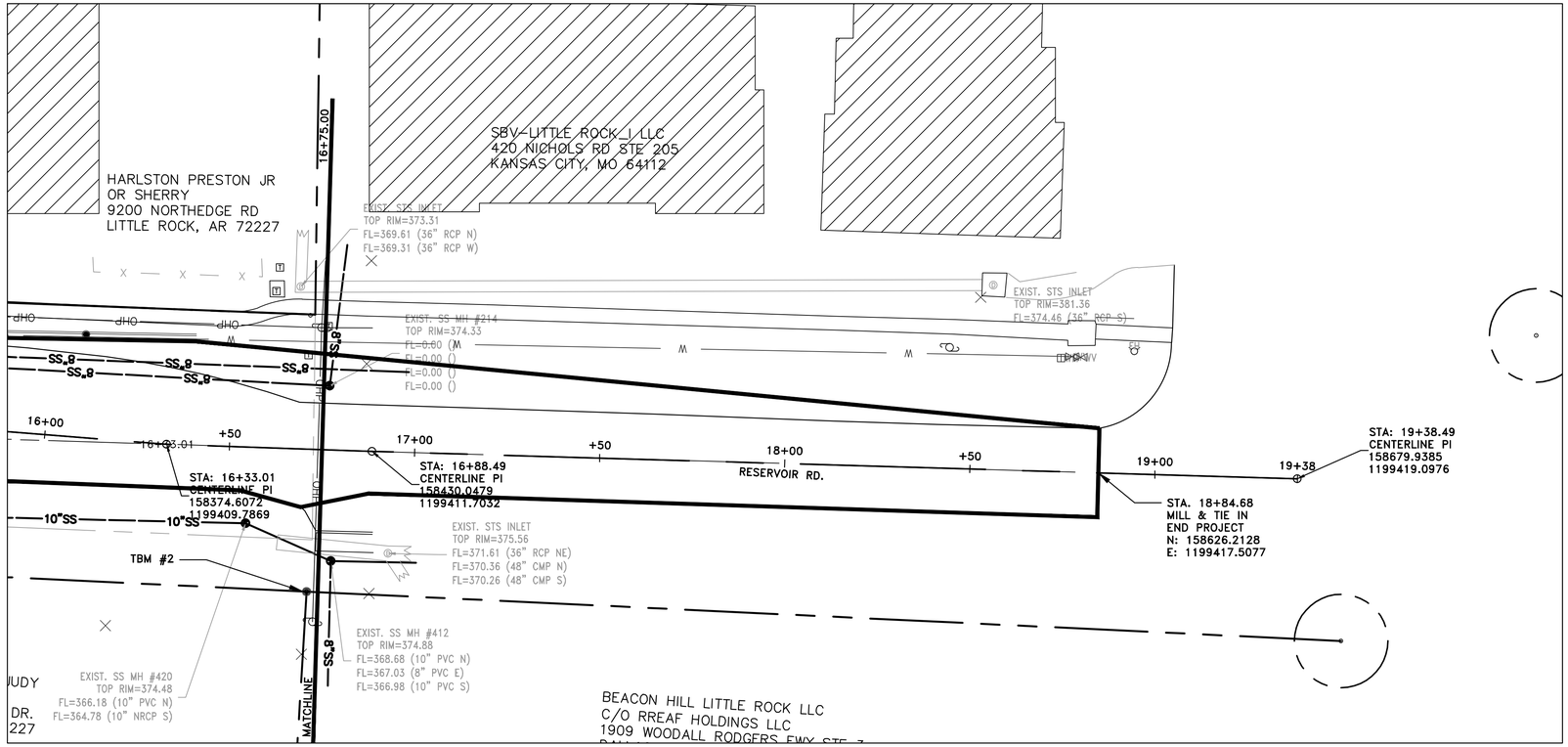
CITY OF LITTLE ROCK, ARKANSAS
RESERVOIR ROAD IMPROVMENTS
P&P SHEET 2

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

DRAWN BY	TH
DESIGNED	MLB
CHECKED	BAP
DATE	05-20-2019
SCALE	H: 1"=20' V: 1"=5'
PROJECT NO.	04-17ST-202A
SHEET NO.	C6

60% SUBMITTAL

POINT TABLE				
POINT #	DESCRIPTION	NORTHING	EASTING	ELEVATION
TBM 1	FIP R4	158412.40	1199449.56	374.74
TBM 2	FIP R4	157797.46	1199350.47	394.08
TBM 3	FIP R4	158034.13	1199422.61	365.67



GRAPHIC SCALE

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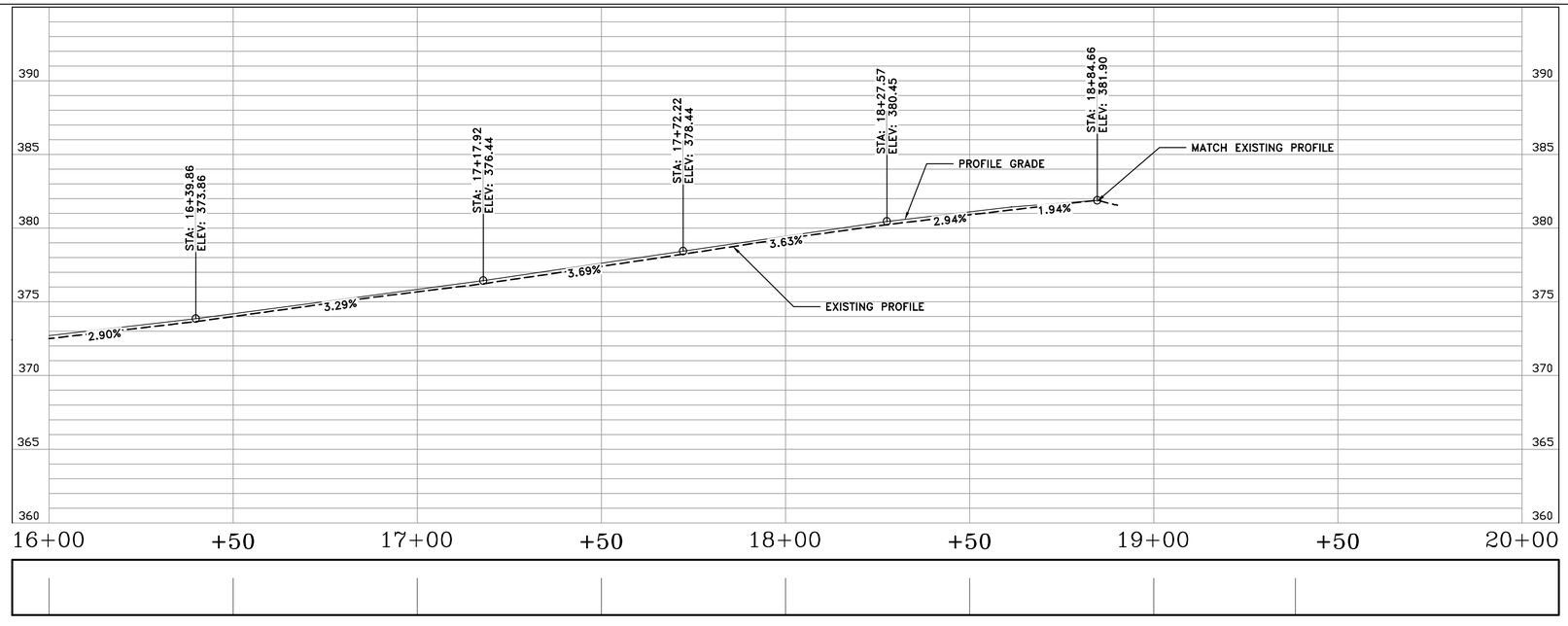


RESERVOIR RD

REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS
RESERVOIR ROAD IMPROVMENTS

P&P SHEET 3

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

DRAWN BY	TH
DESIGNED	MLB
CHECKED	BAP
DATE	05-20-2019
SCALE	H: 1"=20' V: 1"=5'
PROJECT NO.	04-17ST-202A
SHEET NO.	C7

60% SUBMITTAL

ROARK CHARLES R/
JEANETTE E
1508 RESERVOIR RD
LITTLE ROCK, AR 72227

LI TIANSHUI/GAO HONGMEI
1516 RESERVOIR RD
LITTLE ROCK, AR 72227

PBJ EQUITY LLC
1 WITNESS TREE LN
PARON, AR 72122

PULLER JERRY C
9201 NORTHEDGE RD
LITTLE ROCK, AR 72227

RESERVOIR RD.

660 LF 4" SOLID YELLOW
THERMOPLASTIC STRIPING
(TYP. EACH SIDE)

620 LF 4" SOLID WHITE
THERMOPLASTIC STRIPING
(TYP.EACH SIDE)

4" SOLID YELLOW
THERMOPLASTIC STRIPING
W/BROKEN STRIPES
DENOTING TURN LANE;
BROKEN STRIPES @ 10'
LONG WITH 30' GAPS

NEW PERSPECTIVE
CHRISTIAN CHURCH
1601 RESERVOIR RD
LITTLE ROCK, AR. 72223

141IN GUM
141IN GUM
141IN BLACKGUM
121IN MAG

GRAPHIC SCALE
0 5 10 20 30 40

PULLER JERRY C
9201 NORTHEDGE RD
LITTLE ROCK, AR 72227

NORTHEDGE RD.

HARLSTON PRESTON JR
OR SHERRY
9200 NORTHEDGE RD
LITTLE ROCK, AR 72227

SBV-LITTLE ROCK I LLC
420 NICHOLS RD STE 205
KANSAS CITY, MO 64112

RESERVOIR RD.

660 LF 4" SOLID YELLOW
THERMOPLASTIC STRIPING
(TYP.EACH SIDE)

4" SOLID WHITE
THERMOPLASTIC STRIPING

4" SOLID YELLOW
THERMOPLASTIC STRIPING
W/BROKEN STRIPES
DENOTING TURN LANE;
BROKEN STRIPES @ 10'
LONG WITH 30' GAPS

LARRISON JACK & JUDY
REVOCABLE TRUST
4107 WESTCHESTER DR.
LITTLE ROCK, AR 72227

BEACON HILL LITTLE ROCK LLC
C/O RREAF HOLDINGS LLC
1909 WOODALL RODGERS FWY STE 3
DALLAS, TX 75201

REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS
RESERVOIR ROAD IMPROVMENTS

STRIPING PLAN

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

DRAWN BY	TH
DESIGNED	MLB
CHECKED	BAP
DATE	05-20-2019
SCALE	H: 1"=20' V: 1"=5'
PROJECT NO.	04-17ST-202A
SHEET NO.	C8

60% SUBMITTAL

ROARK CHARLES R/
JEANETTE E
1508 RESERVOIR RD
LITTLE ROCK, AR 72227

LI TIANSHUI/GAO HONGMEI
1518 RESERVOIR RD
LITTLE ROCK, AR 72227

PBJ EQUITY LLC
1 WITNESS TREE LN
PARON, AR 72122

PULLER JERRY C
9201 NORTHEDGE RD
LITTLE ROCK, AR 72227

END ROAD WORK
G20-2

TRAFFIC DRUMS @ 10' O.C. FOR MAINTENANCE OF TRAFFIC

SIDEWALK CLOSED
R9-9

DIRECTIONAL ARROWS SHOWN FOR INFORMATION ONLY NOT TO BE INSTALLED (TYP.)

TEMPORARY PRECAST BARRIER

ROAD WORK AHEAD
W20-1

RESERVOIR RD.

12IN" MAG

14IN" GUM

14IN" BLACKGUM

ROAD WORK AHEAD
W20-1

W1-4

20 M.P.H.
W13-1

TEMPORARY REMOVABLE YELLOW STRIPE FOR MAINTENANCE OF TRAFFIC

TRAFFIC DELINEATORS @ 10' O.C. FOR MAINTENANCE OF TRAFFIC

NEW PERSPECTIVE
CHRISTIAN CHURCH
1601 RESERVOIR RD
LITTLE ROCK, AR. 72223

GRAPHIC SCALE
0 5 10 20 30 40

PULLER JERRY C
9201 NORTHEDGE RD
LITTLE ROCK, AR 72227

NORTHEDGE RD.

HARLSTON PRESTON JR
OR SHERRY
9200 NORTHEDGE RD
LITTLE ROCK, AR 72227

SBV-LITTLE ROCK_I LLC
420 NICHOLS RD STE 205
KANSAS CITY, MO 64112

SIDEWALK CLOSED
R9-9

W1-4

20 M.P.H.
W13-1

TRAFFIC DRUMS @ 10' O.C. FOR MAINTENANCE OF TRAFFIC

ROAD WORK AHEAD
W20-1

RESERVOIR RD.

RESERVOIR RD.

24" GUM

LARRISON JACK & JUDY
REVOCABLE TRUST
4107 WESTCHESTER DR.
LITTLE ROCK, AR 72227

TRAFFIC DELINEATORS @ 10' O.C. FOR MAINTENANCE OF TRAFFIC

BEACON HILL LITTLE ROCK LLC
C/O RREAF HOLDINGS LLC
1909 WOODALL RODGERS FWY STE 3
DALLAS, TX 75201

TAPER FORUMA:
$L = \frac{WS^2}{60}$ FOR SPEEDS OF 40MPH OR LESS. REFER TO ARDOT TRAFFIC CONTROL STANDARD DRAWING TC-2

REVISIONS	DATE

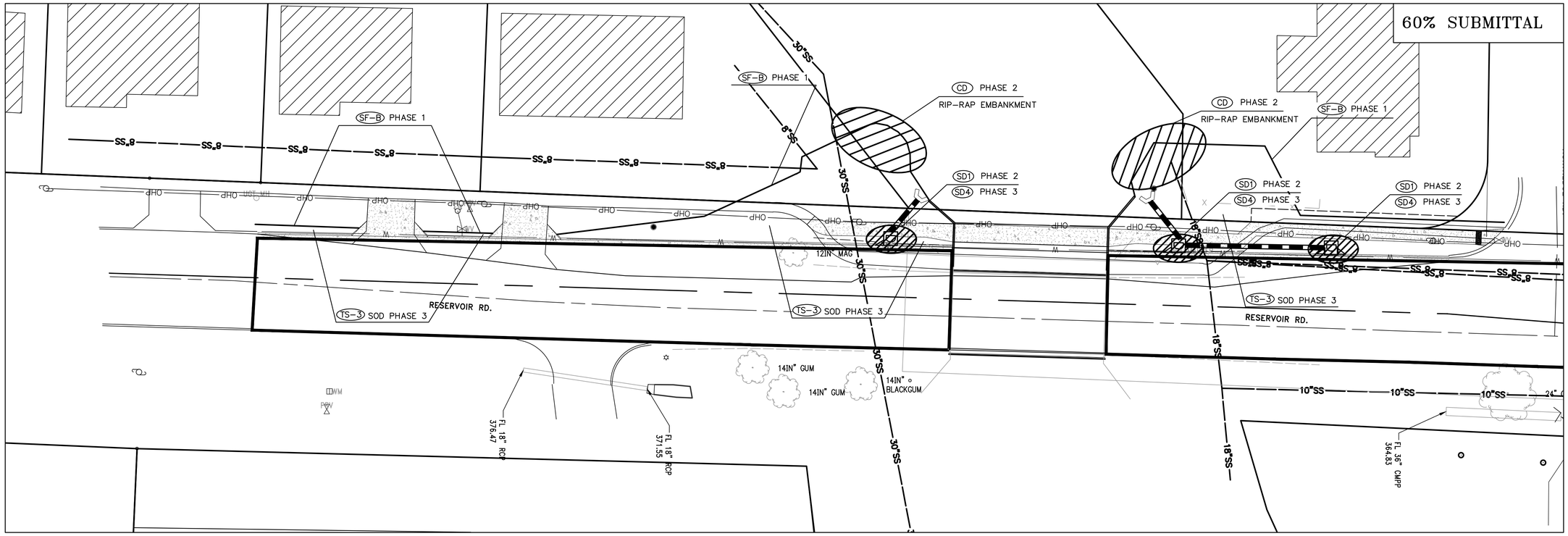
CITY OF LITTLE ROCK, ARKANSAS
RESERVOIR ROAD IMPROVMENTS

MAINTANCE OF TRAFFIC PLAN

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

DRAWN BY	TH
DESIGNED	MLB
CHECKED	BAP
DATE	05-20-2019
SCALE	H: 1"=20' V: 1"=5'
PROJECT NO.	04-17ST-202A
SHEET NO.	C9

60% SUBMITTAL



GRAPHIC SCALE
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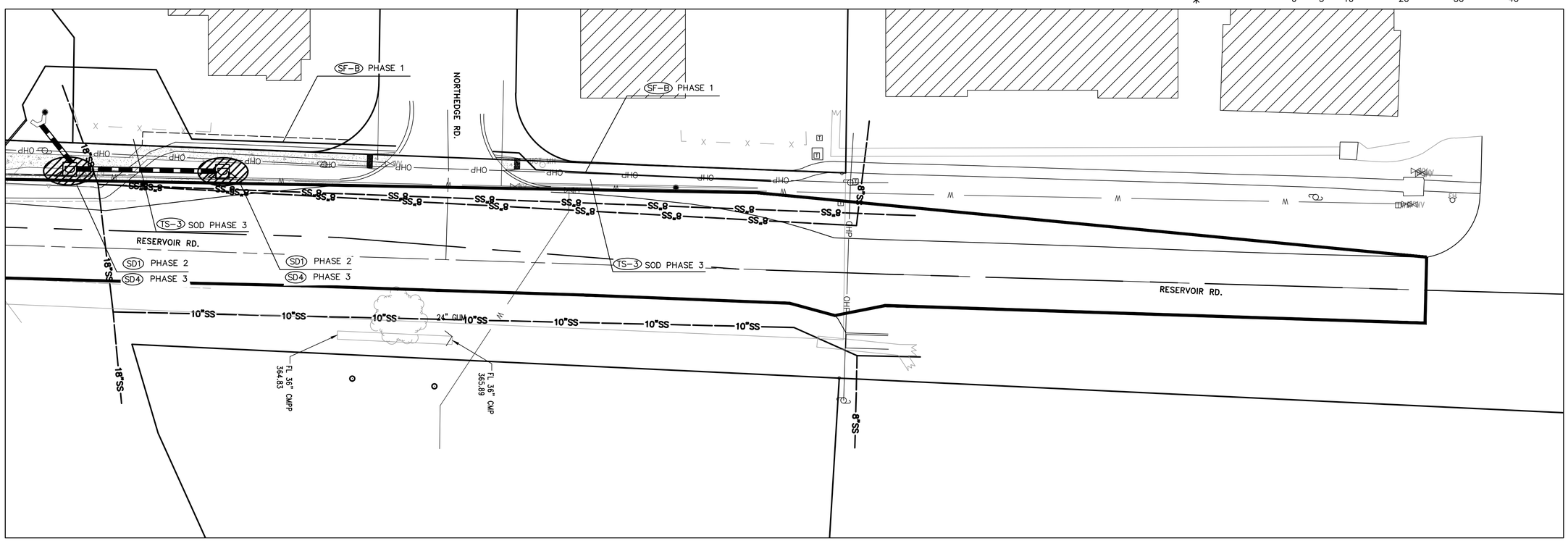


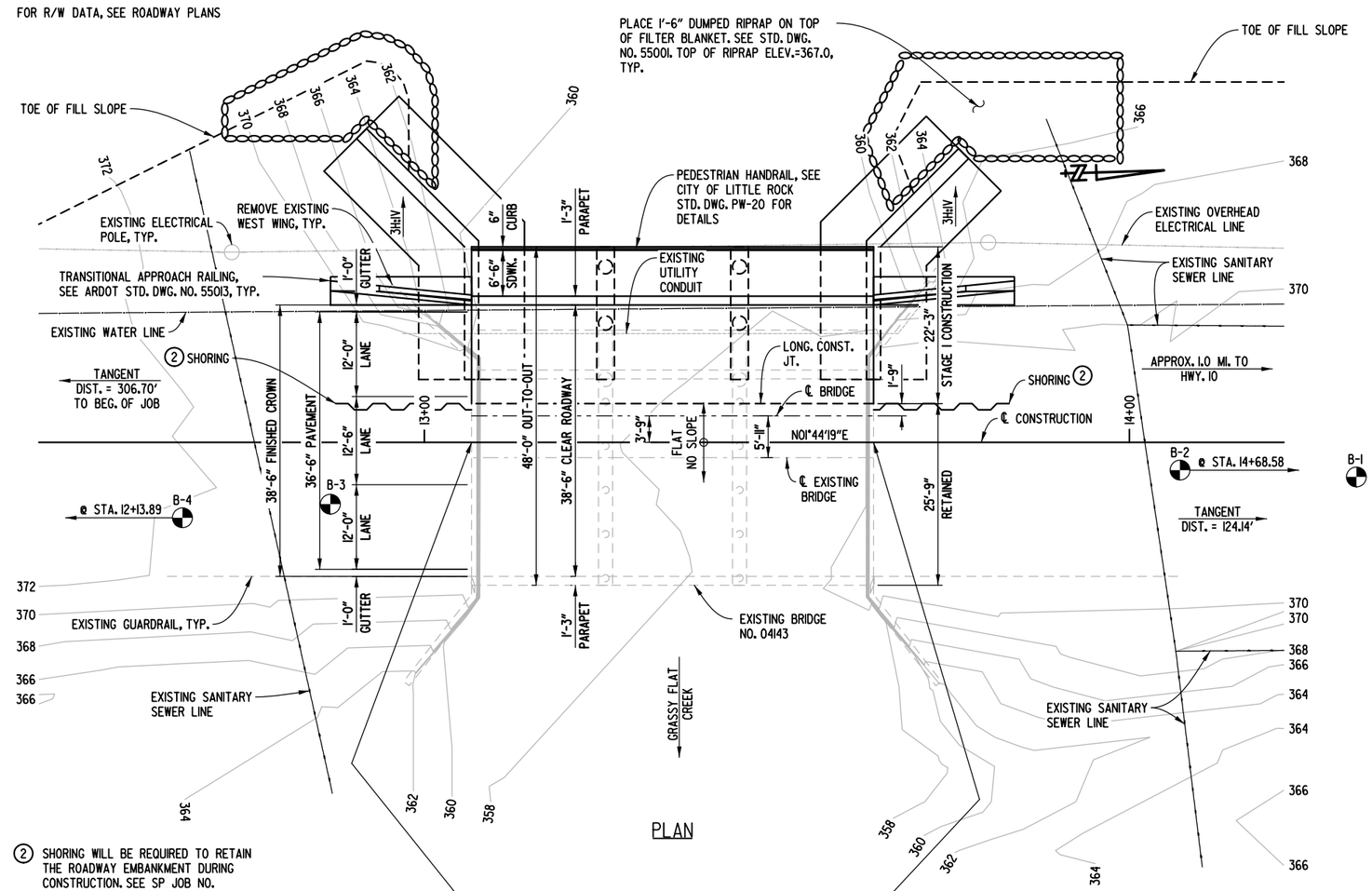
REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS
RESERVOIR ROAD IMPROVMENTS

EROSION CONTROL PLAN

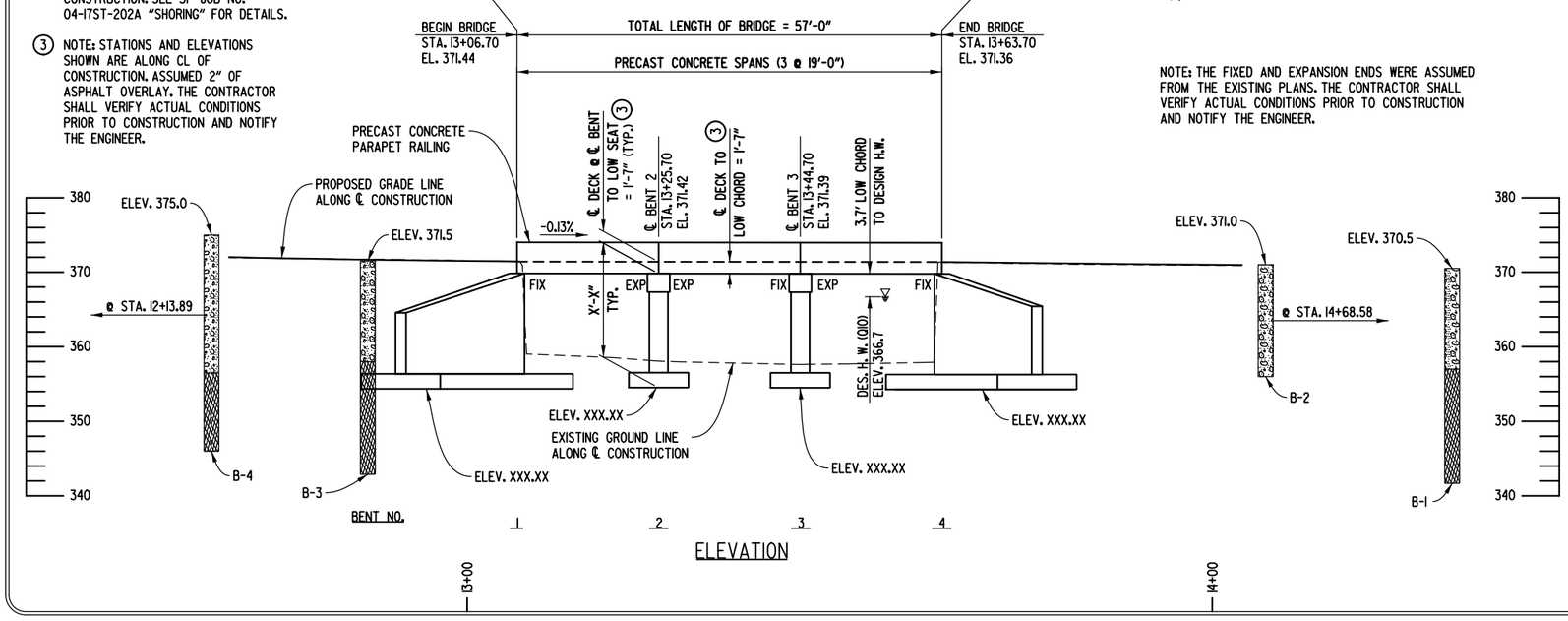
DEPARTMENT OF PUBLIC WORKS
CIVIL ENGINEERING
701 W. MARKHAM
LITTLE ROCK, ARKANSAS 72201

DRAWN BY	TH
DESIGNED	MLB
CHECKED	BAP
DATE	05-20-2019
SCALE	H: 1"=20' V: 1"=5'
PROJECT NO.	04-17ST-202A
SHEET NO.	C10

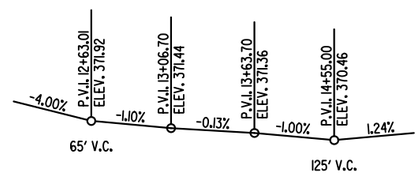


(2) SHORING WILL BE REQUIRED TO RETAIN THE ROADWAY EMBANKMENT DURING CONSTRUCTION. SEE SP JOB NO. 04-17ST-202A "SHORING" FOR DETAILS.

(3) NOTE: STATIONS AND ELEVATIONS SHOWN ARE ALONG CL OF CONSTRUCTION. ASSUMED 2" OF ASPHALT OVERLAY. THE CONTRACTOR SHALL VERIFY ACTUAL CONDITIONS PRIOR TO CONSTRUCTION AND NOTIFY THE ENGINEER.



NOTE: THE FIXED AND EXPANSION ENDS WERE ASSUMED FROM THE EXISTING PLANS. THE CONTRACTOR SHALL VERIFY ACTUAL CONDITIONS PRIOR TO CONSTRUCTION AND NOTIFY THE ENGINEER.



VERTICAL ALIGNMENT DATA
ALONG ℄ CONSTRUCTION

GENERAL NOTES

60% SUBMITTAL

BENCH MARK: VERTICAL CONTROL DATA ARE SHOWN ON THE SURVEY CONTROL DATA SHEETS.

CONSTRUCTION SPECIFICATIONS: ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (2014 EDITION) WITH APPLICABLE SUPPLEMENTAL SPECIFICATIONS AND SPECIAL PROVISIONS. SECTION AND SUBSECTION REFER TO THE STANDARD CONSTRUCTION SPECIFICATIONS UNLESS OTHERWISE NOTED IN THE PLANS.

DESIGN SPECIFICATIONS:
AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS 7TH EDITION WITH 2015 INTERIM SPECIFICATIONS. (SUBSTRUCTURE)
AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES (2002 EDITION) WITH CURRENT INTERIM SPECIFICATIONS (SUPERSTRUCTURE)

LIVE LOADING: HL-93 (SUBSTRUCTURE) HS-20 (SUPERSTRUCTURE) SITE CLASS = B SDI = 0.089 SEISMIC PERFORMANCE ZONE: I

MATERIALS AND STRENGTHS:

CLASS S(AE) CONCRETE (SUPERSTRUCTURE)	F'C = 4,000 PSI
CLASS S CONCRETE (SUBSTRUCTURE)	F'C = 3,500 PSI
REINFORCING STEEL (GRADE 60 AASHTO M 31 OR M 322 TYPE A)	FY = 60,000 PSI

BORING LOGS: BORING LOGS MAY BE OBTAINED FROM THE DEPARTMENT OF PUBLIC WORKS, THE CITY OF LITTLE ROCK.

SPREAD FOOTINGS: FOOTINGS SHALL BE SET A MINIMUM OF 2'-0" INTO MATERIAL DESIGNATED AS HIGHLY WEATHERED SHALE ON THE BORING LEGEND. THE TOP OF FOOTINGS AT BENTS 1 THRU 4 SHALL BE SET AT OR BELOW THE CHANNEL BOTTOM AS DETERMINED BY THE LOWEST CHANNEL ELEVATION WITHIN THE FOOTPRINT OF THE FOOTING. FOUNDATIONS FOR FOOTINGS SHALL BE PREPARED IN ACCORDANCE WITH SUBSECTION 801.04. ROCK EXCAVATIONS SHALL BE MADE TO NEAT LINES OF THE CONCRETE FOOTINGS. BLASTING SHALL NOT BE ALLOWED. CONCRETE IN FOOTINGS SHALL BE POURED DIRECTLY AGAINST EXCAVATED SURFACES OF ROCK.

BRIDGE DECK: THE CONCRETE BRIDGE DECK, EXCEPT SIDEWALKS, SHALL BE GIVEN A TINE FINISH AS SPECIFIED FOR FINAL FINISHING IN SUBSECTION 802.19 FOR CLASS 5 TINED BRIDGE ROADWAY SURFACE FINISH. SIDEWALKS SHALL BE GIVEN A CLASS 6 BROOMED FINISH.

PROTECTIVE SURFACE TREATMENT: CLASS 1 PROTECTIVE SURFACE TREATMENT SHALL BE APPLIED TO THE ROADWAY SURFACE, ROADWAY FACE, AND TOP OF PARAPET RAILS IN ACCORDANCE WITH SECTION 803.

DETAIL DRAWINGS:	DRAWING NUMBER
ABUTMENT DETAILS	XXXXX
INTERMEDIATE BENT DETAILS	XXXXX
DETAILS OF STANDARD 19'-0" PRECAST CONCRETE SPANS	15242

EXISTING BRIDGE: EXISTING BRIDGE NO. 04143 (LOG MILE 1.01) IS 36.2' WIDE AND 57.0' LONG AND CONSISTS OF PRECAST CONCRETE SPANS (3 SPANS TOTAL) SUPPORTED BY CONCRETE COLUMNS ON CONCRETE PILE FOOTINGS.

VERIFICATION: EXCEPT AS NOTED, COMPONENTS OF THE EXISTING BRIDGE ARE TO BE RETAINED AND JOINED TO THE PROPOSED WORK. INFORMATION AND DIMENSIONS SHOWN ARE BASED ON THE EXISTING BRIDGE PLANS AND AVAILABLE SURVEY DATA. THE CONTRACTOR IS TO ADHERE STRICTLY TO THE REQUIREMENTS FOR VERIFICATION OF THE GEOMETRY OF THE EXISTING BRIDGE AND ITS RELATIONSHIP TO THE PROPOSED WORK DESCRIBED IN SUBSECTION 821.02 AND MAKE NECESSARY ADJUSTMENTS TO FIT THE PROPOSED WORK TO THE EXISTING STRUCTURE. PAYMENT FOR THIS WORK SHALL BE CONSIDERED SUBSIDIARY TO THE PAY ITEM "MODIFICATION OF EXISTING BRIDGE STRUCTURE (BRIDGE NO. 04143)".

REMOVAL AND SALVAGE: PORTIONS OF EXISTING BRIDGE NO. 04143 SHALL BE REMOVED IN ACCORDANCE WITH SECTION 205. ALL MATERIAL FROM THE EXISTING BRIDGE SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

MAINTENANCE OF TRAFFIC: SEE ROADWAY PLANS.

HYDRAULIC DATA

FLOOD DESCRIPTION	FREQUENCY	DISCHARGE	(1) NATURAL W.S. ELEVATION	W.S. ELEVATION WITH BACKWATER
	YEARS	CFS	FEET	FEET
DESIGN	10	5230	366.9	366.1
BASE	100	7960	370.9	372.8
EXTREME	500	9235	372.5	373.3
OVERTOPPING	37	6049	---	370.8

(1) UNCONSTRICTED WATER SURFACE ELEVATION WITHOUT STRUCTURE OR ROADWAY APPROACHES.
100 YR. BACKWATER ELEVATION FOR EXISTING STRUCTURE = 372.8 FEET
PROPOSED LOW BRIDGE CHORD ELEV. = 369.8 FEET AT STATION 13+63.70
DRAINAGE AREA = 3.9 SQ. MILES
HISTORICAL H.W. ELEV. = N/A

REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS
RESERVOIR ROAD IMPROVMENTS

BRIDGE LAYOUT SHEET 1

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

DRAWN BY	LDG
DESIGNED	LDG
CHECKED	CAW
DATE	05-20-19
SCALE	1" = 10'
PROJECT NO.	04-17ST-202A
SHEET NO.	L1

USER: lg5169
DESIGN FILE: G:\18804904_ReservRoad\TRANSP\dgn\bridge\b18804904_ll.dgn
PLOTTED: 5/20/2019 07:10
SCALE: h20

60% SUBMITTAL

BORING LOG NO. B-1

Page 1 of 1

PROJECT: Reservoir Road Improvements

CLIENT: Crafton Tull & Associates, Inc.
Little Rock, AR

SITE: Reservoir Road
Little Rock, Arkansas

LOCATION See Exploration Plan

Latitude: 34.7673° Longitude: -92.376°

Surface Elev.: 370.5 (Ft.)

DEPTH	ELEVATION (Ft.)	MODEL LAYER	GRAPHIC LOG	FIELD TEST RESULTS	WATER CONTENT (%)	ATTERBERG LIMITS LL-PL-PI	PERCENT FINES
0.4	370	1					
		2		3-7-7 N=14	9		
				6-5-4 N=9	14		38
				7-4-4 N=8	9		
				3-4-4 N=8	16		
13.5	357			7-8-11 N=19	10		
		3		7-19-27 N=46	8		
				34-50/3"	12		
				50/1"	14		
28.8	341.5			50/3"	12		

Boring Terminated at 28.8 Feet

Stratification lines are approximate. In-situ, the transition may be gradual.
Classification estimated from disturbed samples. Core samples and perrographic analysis may reveal other rock types.

Hammer Type: Automatic

Advancement Method:
0 to 28.8 feet: Solid-flight auger

Abandonment Method:
Boring backfilled with auger cuttings, bentonite and sand.
Boring capped with asphalt

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).

See Supporting Information for explanation of symbols and abbreviations.

Notes:
Surface elevation estimated by Terracon from a provided site grading plan, and rounded to the nearest half foot

WATER LEVEL OBSERVATIONS

While drilling

Terracon
25809 I 30
Bryant, AR

Boring Started: 02-21-2019 | Boring Completed: 02-21-2019
Drill Rig: Acker Renegade #679 | Driller: JB
Project No.: 35185117

BORING LOG NO. B-2

Page 1 of 1

PROJECT: Reservoir Road Improvements

CLIENT: Crafton Tull & Associates, Inc.
Little Rock, AR

SITE: Reservoir Road
Little Rock, Arkansas

LOCATION See Exploration Plan

Latitude: 34.7674° Longitude: -92.376°

Surface Elev.: 371 (Ft.)

DEPTH	ELEVATION (Ft.)	MODEL LAYER	GRAPHIC LOG	FIELD TEST RESULTS	WATER CONTENT (%)	ATTERBERG LIMITS LL-PL-PI	PERCENT FINES
0.5	370.5	1					
		2		5-4-3 N=7	17		
				4-3-3 N=6	18		
				4-6-4 N=10	15		
				5-4-3 N=7	15		
				6-11-4 N=15	12		
15.0 - boring terminated due to old storm drain	356	3		7-14-43 N=57	20		

Boring Terminated at 15 Feet

Stratification lines are approximate. In-situ, tie transition may be gradual.

Hammer Type: Automatic

Advancement Method:
0 to 15 feet: Solid-flight auger

Abandonment Method:
Boring backfilled with auger cuttings, bentonite and sand.
Boring capped with asphalt

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).

See Supporting Information for explanation of symbols and abbreviations.

Notes:
Surface elevation estimated by Terracon from a provided site grading plan, and rounded to the nearest half foot

WATER LEVEL OBSERVATIONS

While drilling

Terracon
25809 I 30
Bryant, AR

Boring Started: 02-27-2019 | Boring Completed: 02-27-2019
Drill Rig: Acker Renegade #679 | Driller: JB
Project No.: 35185117

BORING LOG NO. B-3

Page 1 of 1

PROJECT: Reservoir Road Improvements

CLIENT: Crafton Tull & Associates, Inc.
Little Rock, AR

SITE: Reservoir Road
Little Rock, Arkansas

LOCATION See Exploration Plan

Latitude: 34.7669° Longitude: -92.376°

Surface Elev.: 371.5 (Ft.)

DEPTH	ELEVATION (Ft.)	MODEL LAYER	GRAPHIC LOG	FIELD TEST RESULTS	WATER CONTENT (%)	ATTERBERG LIMITS LL-PL-PI	PERCENT FINES
0.3	371	1					
		2		3-5-6 N=11	11		
				4-4-4 N=8	12		
				4-4-5 N=9	14		38
				5-4-4 N=8	19		
13.5	358			3-3-4 N=7	19		
		3		9-11-9 N=20	22		
				50/5"	15		
				50/3"	20		
28.6	343			50/1"	14		

Boring Terminated at 28.6 Feet

Stratification lines are approximate. In-situ, the transition may be gradual.
Classification estimated from disturbed samples. Core samples and perrographic analysis may reveal other rock types.

Hammer Type: Automatic

Advancement Method:
0 to 28.6 feet: Solid-flight auger

Abandonment Method:
Boring backfilled with auger cuttings, bentonite and sand.
Boring capped with asphalt

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).

See Supporting Information for explanation of symbols and abbreviations.

Notes:
Surface elevation estimated by Terracon from a provided site grading plan, and rounded to the nearest half foot

WATER LEVEL OBSERVATIONS

While drilling

Terracon
25809 I 30
Bryant, AR

Boring Started: 02-27-2019 | Boring Completed: 02-27-2019
Drill Rig: Acker Renegade #679 | Driller: JB
Project No.: 35185117

BORING LOG NO. B-4

Page 1 of 1

PROJECT: Reservoir Road Improvements

CLIENT: Crafton Tull & Associates, Inc.
Little Rock, AR

SITE: Reservoir Road
Little Rock, Arkansas

LOCATION See Exploration Plan

Latitude: 34.7667° Longitude: -92.376°

Surface Elev.: 375 (Ft.)

DEPTH	ELEVATION (Ft.)	MODEL LAYER	GRAPHIC LOG	FIELD TEST RESULTS	WATER CONTENT (%)	ATTERBERG LIMITS LL-PL-PI	PERCENT FINES
0.5	374.5	1					
		2		8-8-6 N=14	15		
				7-5-5 N=10	2		
				4-4-4 N=8	17		
				4-4-6 N=10	17		
				4-5-3 N=8	15		
				1-2-3 N=5	21		
18.5	356.5	3		8-12-16 N=28	19		
					13		
29.0	346				19		

- pieces of wood

Boring Terminated at 29 Feet

Stratification lines are approximate. In-situ, tie transition may be gradual.
Classification estimated from disturbed samples. Core samples and petrographic analysis may reveal other rock types.

Hammer Type: Automatic

Advancement Method:
0 to 29 feet: Solid-flight auger

Abandonment Method:
Boring backfilled with auger cuttings, bentonite and sand.
Boring capped with asphalt

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).

See Supporting Information for explanation of symbols and abbreviations.

Notes:
Surface elevation estimated by Terracon from a provided site grading plan, and rounded to the nearest half foot

WATER LEVEL OBSERVATIONS

While drilling

Terracon
25809 I 30
Bryant, AR

Boring Started: 02-27-2019 | Boring Completed: 02-27-2019
Drill Rig: Acker Renegade #679 | Driller: JB
Project No.: 35185117

REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS
RESERVOIR ROAD IMPROVMENTS

BRIDGE LAYOUT SHEET 2

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

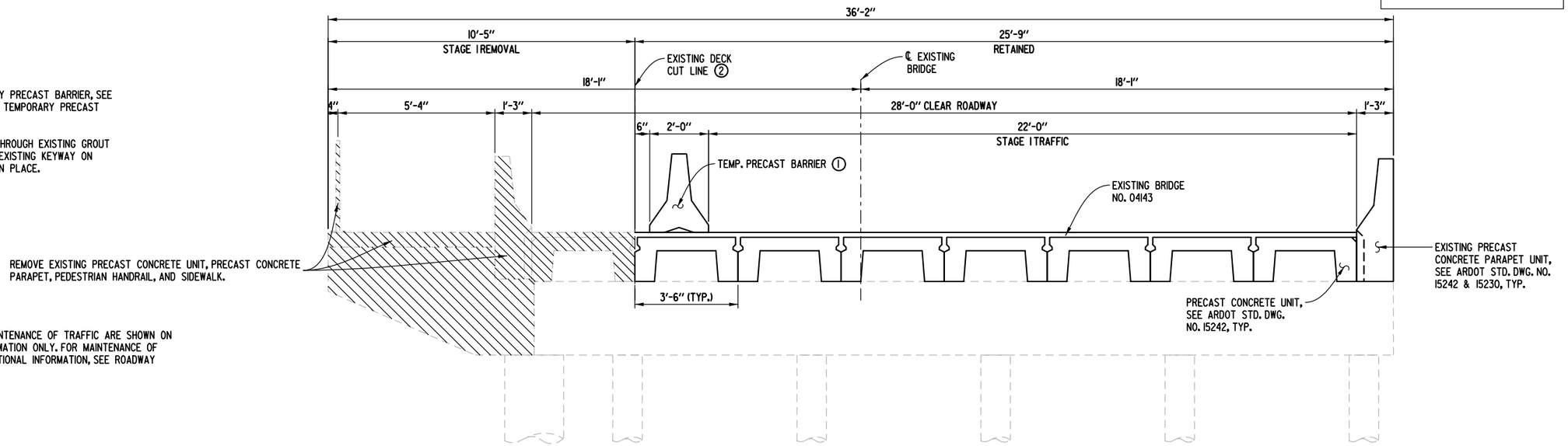
DRAWN BY	LDG
DESIGNED	LDG
CHECKED	CAW
DATE	05-20-19
SCALE	NO SCALE
PROJECT NO.	04-17ST-202A
SHEET NO.	L2

60% SUBMITTAL

NOTES:

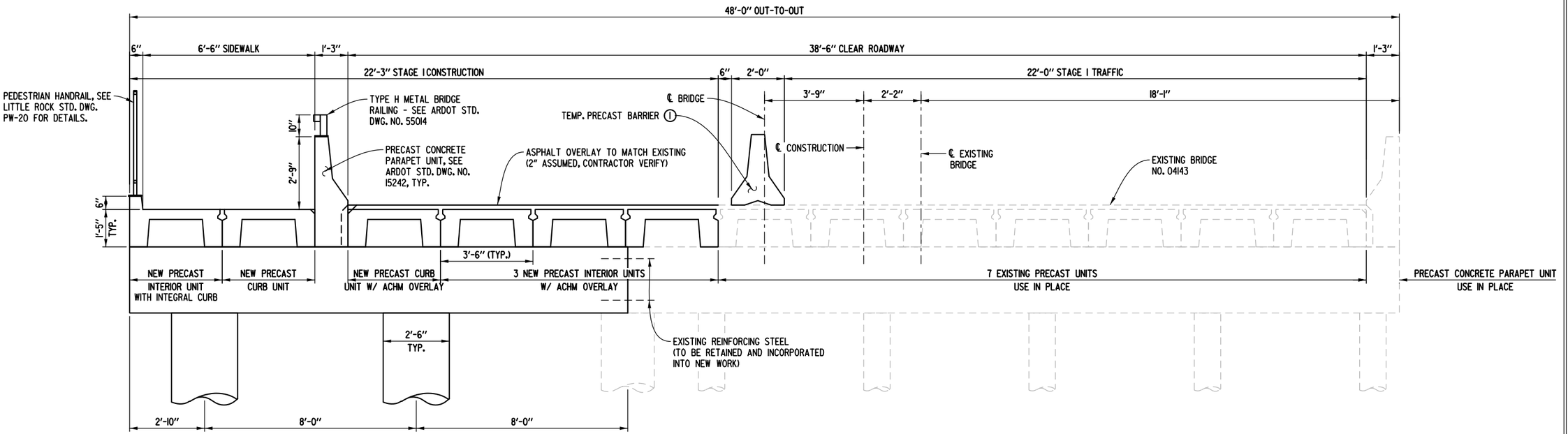
① FOR DETAILS OF TEMPORARY PRECAST BARRIER, SEE STD. DWG. NO. TC-4. ATTACH TEMPORARY PRECAST BARRIER TO EXISTING DECK.

② PARTIAL DEPTH SAW CUT THROUGH EXISTING GROUT KEY. REMOVE GROUT FROM EXISTING KEYWAY ON PRECAST UNIT TO REMAIN IN PLACE.



NOTE:
DETAILS RELATED TO MAINTENANCE OF TRAFFIC ARE SHOWN ON BRIDGE PLANS FOR INFORMATION ONLY. FOR MAINTENANCE OF TRAFFIC PLANS AND ADDITIONAL INFORMATION, SEE ROADWAY PLANS.

STAGE I CONSTRUCTION
(LOOKING NORTH)
SCALE: ½" = 1'-0"



STAGE I CONSTRUCTION
(LOOKING NORTH)
SCALE: ½" = 1'-0"

REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS
RESERVOIR ROAD IMPROVMENTS

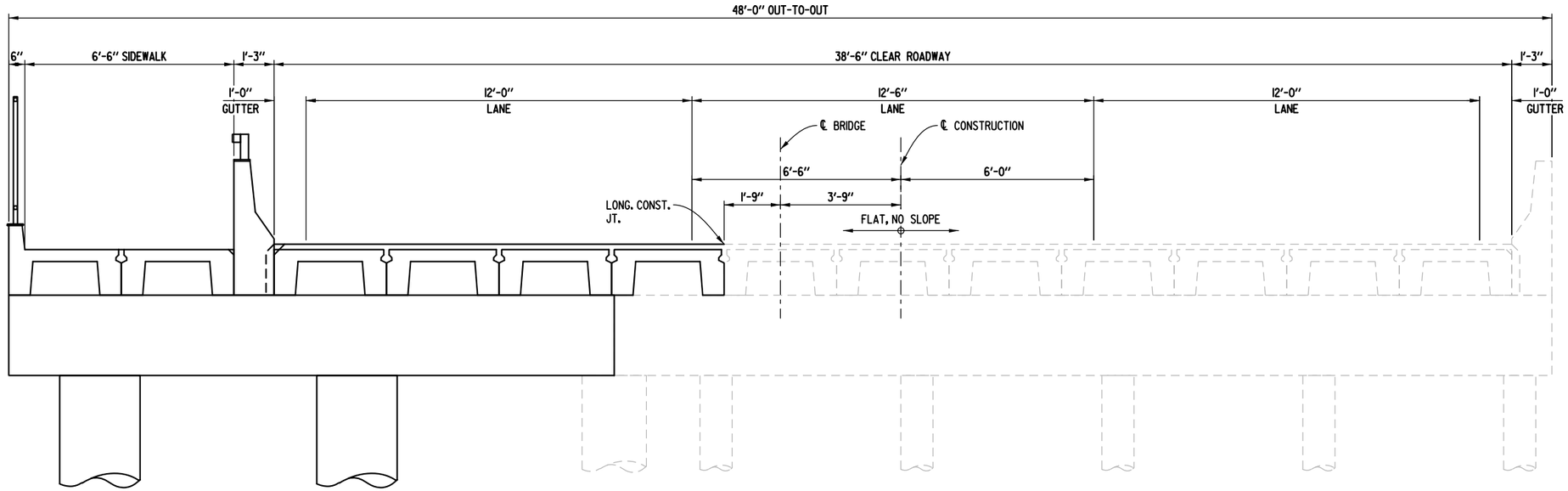
STAGE CONSTRUCTION SHEET 1

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

DRAWN BY	LDG
DESIGNED	LDG
CHECKED	CAW
DATE	05-20-19
SCALE	AS SHOWN
PROJECT NO.	04-17ST-202A
SHEET NO.	S1

USER: lg5169
DESIGN FILE: G:\18804904_ReservRoad\TRANSP\dgn\bridge\bi8804904_13.dgn
PLOTTED: 5/20/2019 07:21
SCALE: 1:4

60% SUBMITTAL



PRECAST CONCRETE UNIT NO. 1 2 3 4 5 6 7 8 9 10 11 12 13

CONSTRUCTION COMPLETE
(LOOKING NORTH)
SCALE: ½" = 1'-0"

REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS
RESERVOIR ROAD IMPROVMENTS

STAGE CONSTRUCTION SHEET 2

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

DRAWN BY	LDG
DESIGNED	LDG
CHECKED	CAW
DATE	05-20-19
SCALE	AS SHOWN
PROJECT NO.	04-17ST-202A
SHEET NO.	S2

USER: lg5169
DESIGN FILE: G:\I8804904_ReservRoad\TRANSP\dgn\bridge\bI8804904_I4.dgn
PLOTTED: 5/20/2019 07:23 SCALE: 1:4