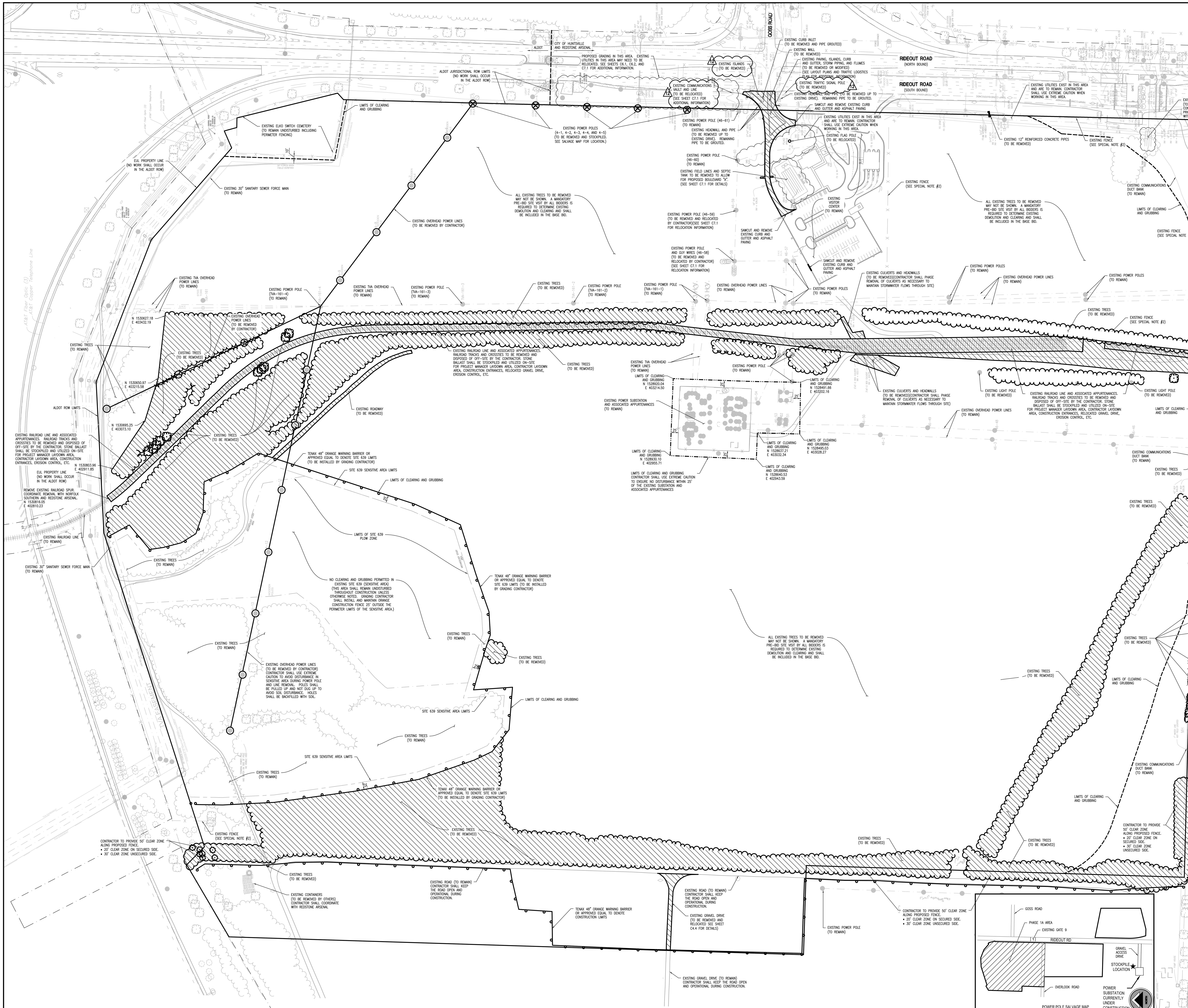

REDSTONE ARSENAL POWER POLES (TO BE SALVAGED)	
POLE #	TYPE
4-1	CONCRETE
4-2	CONCRETE
4-3	CONCRETE
4-4	CONCRETE
4-5	CONCRETE

DEMOLITION LEGEND

- UTILITY POLES (TO BE REMOVED)
- UTILITY POLES (TO BE REMOVED AND SALVAGED)
- TREES (TO BE REMOVED)
- EXISTING IMPROVEMENTS (TO BE REMOVED)
- LIMITS OF DISTURBANCE
- ORANGE CONSTRUCTION FENCE (STYLE # J104 ORANGE)

SPECIAL NOTES:

1. SEE SHEET C1.0 FOR APPLICABLE PROJECT GENERAL NOTES.
2. SEE FENCING PLAN SHEET C4.8 FOR ALL FENCING REMOVAL, RELOCATION, AND REPLACEMENT.
3. CONTRACTOR SHALL REUSE THE RAILROAD STONE BALLAST AS TEMPORARY CONSTRUCTION ACCESS ROADS, EROSION CONTROL, ETC.
4. SEE TABLE AND MAP THIS SHEET FOR POLES TO BE SALVAGED AND STOCKPILED AND STOCKPILE LOCATION. ALL WOODEN POLES AND OVERHEAD LINES ARE TO BE REMOVED AND WILL BECOME THE PROPERTY OF THE CONTRACTOR.
5. SEE SHEET C4.6 FOR PHASING OF DEMOLITION AT VISITOR CENTER ACCESS.
6. SOME CLEARING FOR CLEAR ZONE MAY BE OUTSIDE LIMITS OF CLEARING. CONTRACTOR TO ENSURE THAT A CLEAR ZONE OF 50' IS PROVIDED ALONG PROPOSED FENCE. CONTRACTOR TO USE EXTREME CAUTION ALONG OVERLOOK ROAD DUE TO EXISTING UTILITIES AND FIBER OPTIC CABLE.

0 50 100 200
SCALE 1" = 100'

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Atlanta, Georgia
Birmingham, Alabama
Huntsville, Alabama
www.lbyd.com

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LBYD, Inc.
305 Church Street SW
Suite 719
Huntsville, AL 35801
Phone (256) 533-1575
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HUNTSVILLE
The Star of Alabama

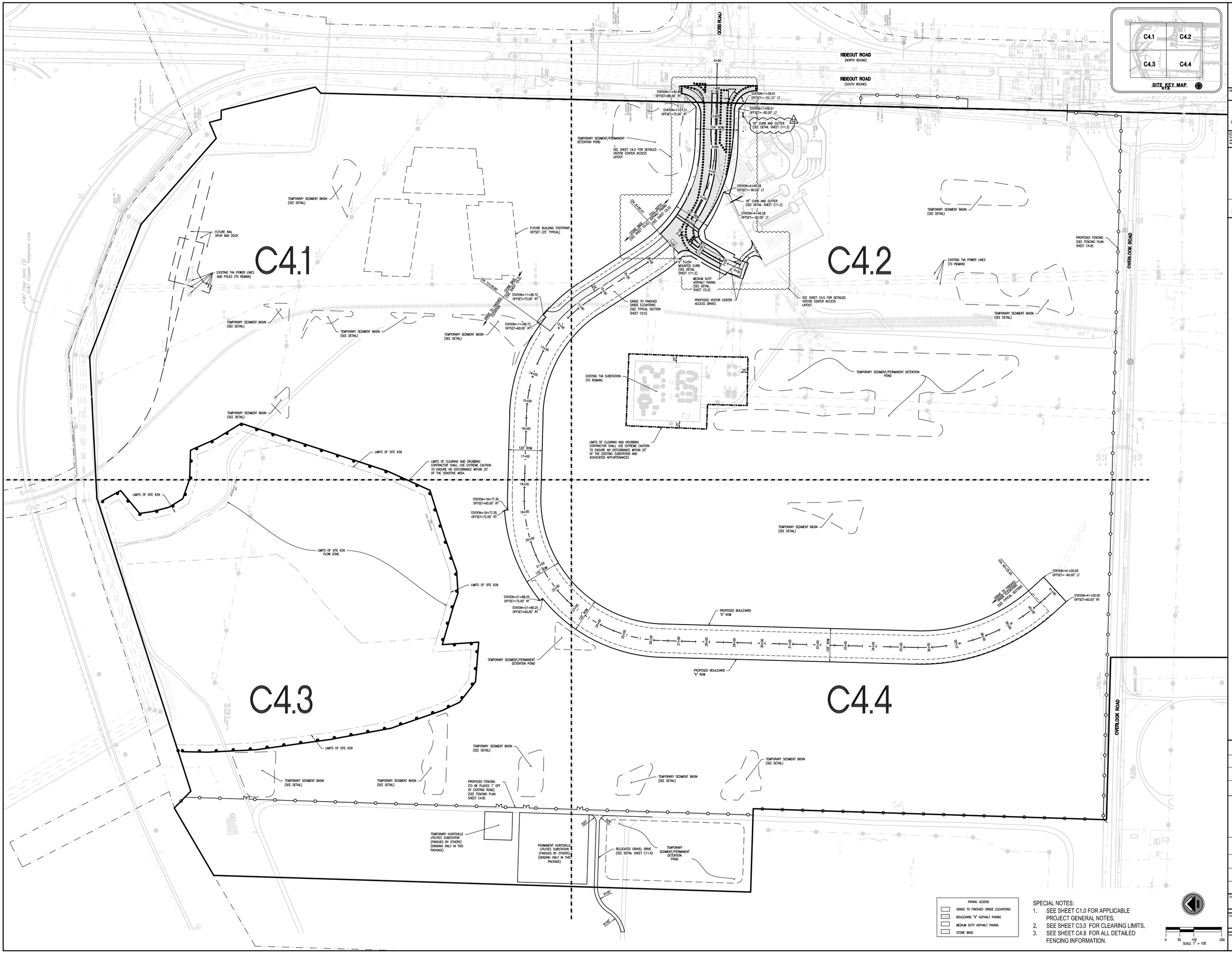
OVERALL DEMOLITION PLAN

REDSTONE GATEWAY - PACKAGE 1A
CITY OF HUNTSVILLE
HUNTSVILLE, ALABAMA

REV	DATE	DRAWN	CHECKED	DESCRIPTION
12	6/23/11	BSJ	TAR	ISLAND AND SIGNAL POLE REMOVAL
6	5/11/11	TBE	TAR	REMOVING STORM PIPE
5	4/27/11	TBE	TAR	RELOCATING FLAG POLE
2	2/4/2011	TBE	TAR	CLEARING LIMIT REVISION

COH REVIEW: TRAFFIC | REAL ESTATE | PE | DRAINAGE

Date: 12/16/2010
Checked By: RAN
Drawn By: BSJ
Sheet Number: C3.0
Sequence: 4
Total: 43



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HUNTSVILLE The Pride of Alabama

OVERALL LAYOUT PLAN

REDSTONE GATEWAY - PACKAGE 1A

CITY OF HUNTSVILLE
HUNTSVILLE, ALABAMA

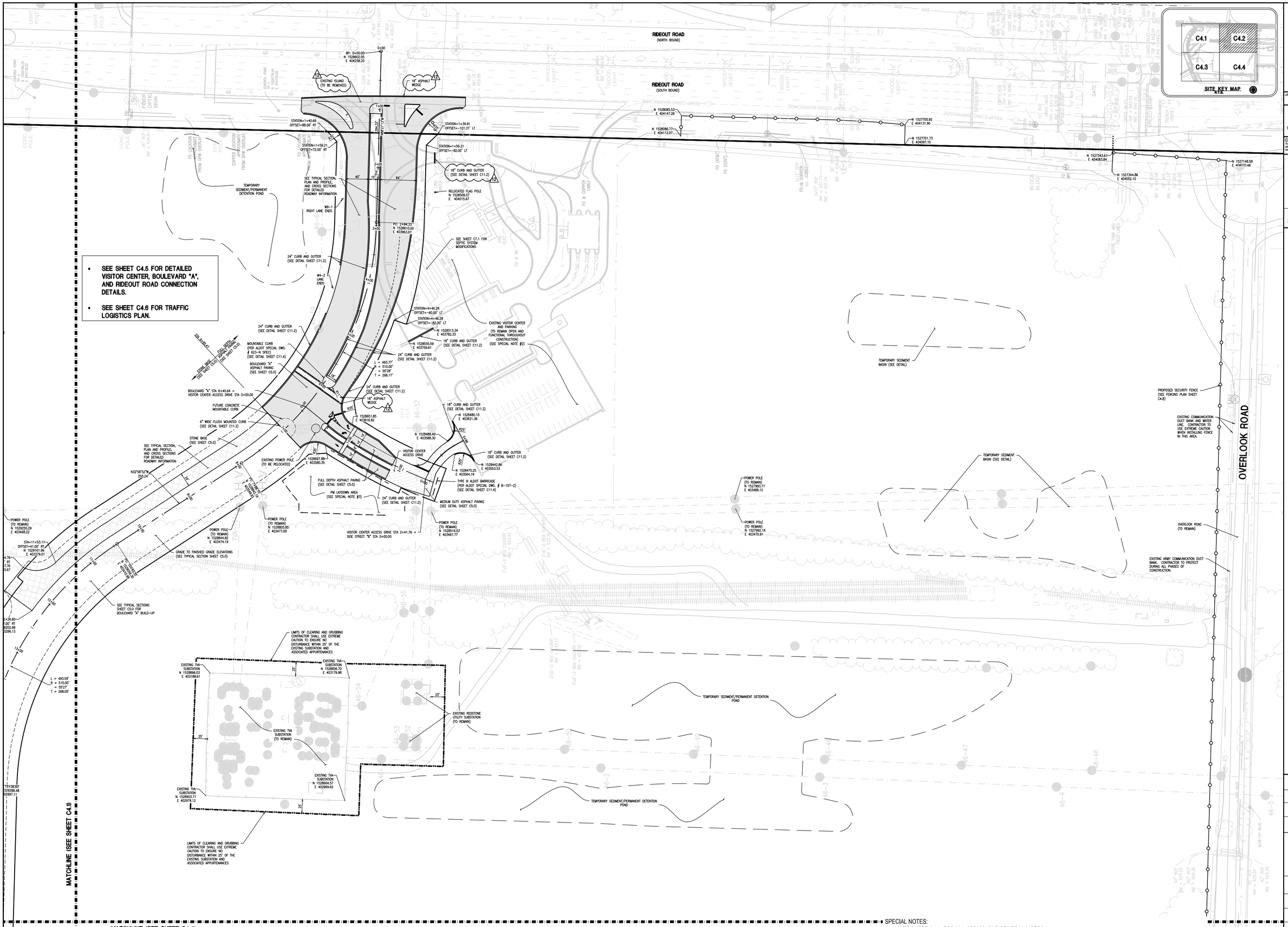
REV	DATE	DRAWN	CHECKED	DESCRIPTION	TRAFFIC	ENGR. LEAD	CITY REVIEW	PE	DRAWING
1B	8/26/11	BSJ	TRM	REDLINE 1 RS, 2 RUB 19 RS 19 RUB					
2	12/14/2011	TRB	TRM	REDLINE 19 RUB					

Date
12/16/2010

Checked By: RAN
Drawn By: BSJ

Sheet Number
C4.0

Sequence 5
Total 43



PAVING LEGEND

- GRADE TO FINISHED GRADE ELEVATIONS
- BOULEVARD "A" ASPHALT PAVING
- MEDIUM DUTY ASPHALT PAVING
- STONE BASE

SPECIAL NOTES:

1. SEE SHEET C1.0 FOR ALL APPLICABLE GENERAL NOTES.
2. EXISTING VISITOR CENTER TO REMAIN OPEN THROUGHOUT CONSTRUCTION. CONTRACTOR TO COORDINATE CONSTRUCTION ACTIVITIES WITH REDSTONE ARSENAL IN ORDER TO AVOID DISRUPTION OF ANY TRAFFIC FLOW OR UTILITIES TO AND FROM THE EXISTING FACILITY.
3. CONTRACTOR SHALL SALVAGE RAILROAD BALLAST STONE FOR USE IN CONSTRUCTION/PM LAYDOWN AREA, EROSION CONTROL, AND CONSTRUCTION ENTRANCES. PLACE 6" LIFT IN AREA OF PM LAYDOWN AREA AS DIRECTED BY PROJECT MANAGER.
4. REFER TO SHEET C4.0 FOR RIGHT-OF-WAY INFORMATION AND DIMENSIONS.

0 25 50 100
SCALE 1" = 50'

C4.1 C4.2 C4.3 C4.4
SITE KEY MAP
N.T.S.

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LBYD Project Number
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LBYD, Inc.
305 Church Street SW
Suite 719
Huntsville, AL 35801
Phone (256) 533-1575
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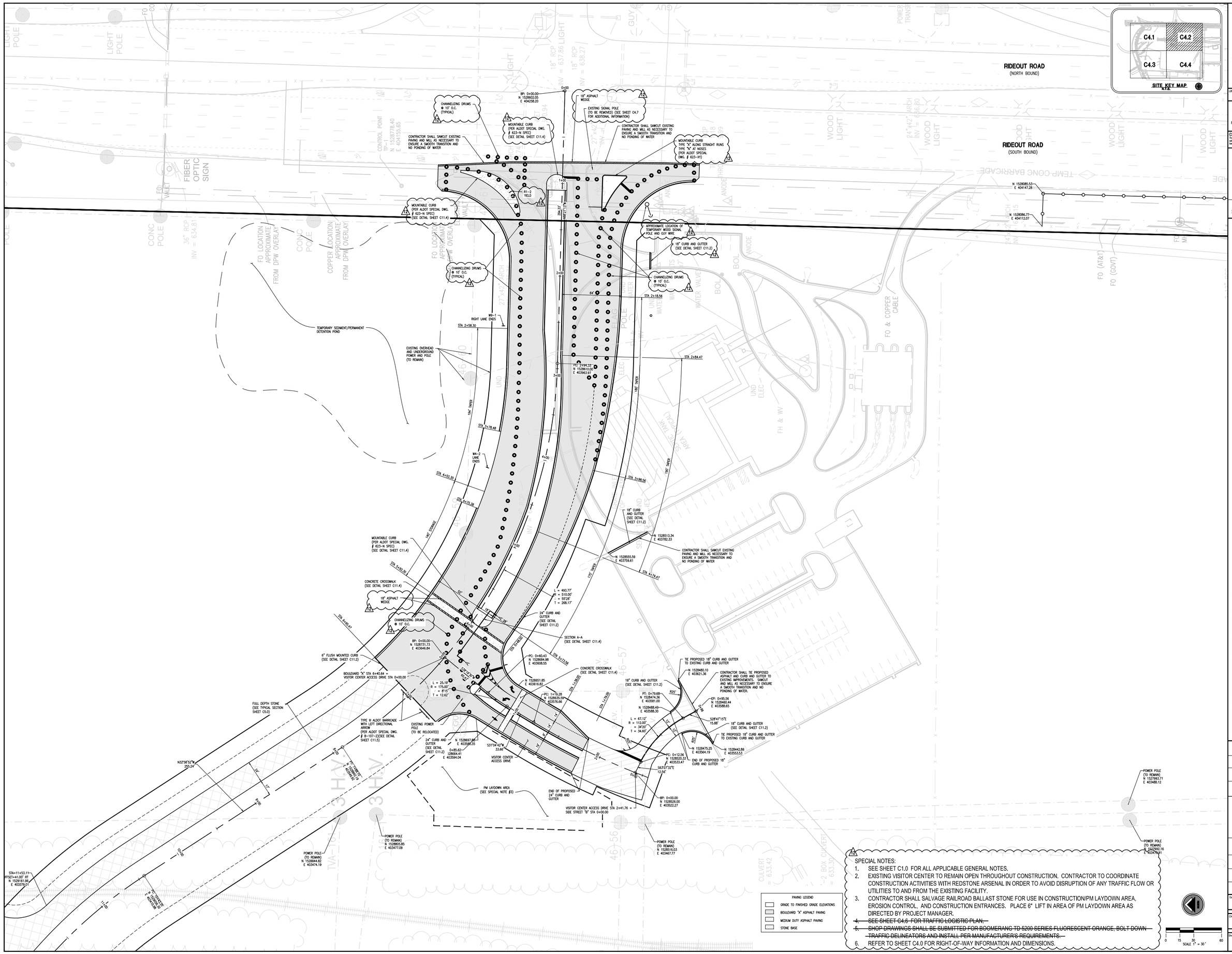
HUNTSVILLE The Rocket City

REV	DATE	DRAWN	CHECKED	DESCRIPTION	TWVC	RCS CON. REVIEW	PE	DRAWING
13	8/29/11	BSJ	TAN	MODIFIED LTS PLAN & PR (S. B-A-C)				
10	6/7/2011	TBB	TAN	REVISE SITEDISCRETION				
5	4/27/11	TBB	TAN	RELOCATED FLAG POLE				
2	2/4/2011	TBB	TAN	MEDIAN NOSE				

LAYOUT AND COORDINATE PLAN
REDSTONE GATEWAY - PACKAGE 1A
CITY OF HUNTSVILLE
HUNTSVILLE, ALABAMA

Date 12/16/2010
Checked By RAN
Drawn By BSJ
Sheet Number C4.2
Sequence 7
Total 43



SPECIAL NOTES:

1. SEE SHEET C1.0 FOR ALL APPLICABLE GENERAL NOTES.
2. EXISTING VISITOR CENTER TO REMAIN OPEN THROUGHOUT CONSTRUCTION. CONTRACTOR TO COORDINATE CONSTRUCTION ACTIVITIES WITH REDSTONE ARSENAL IN ORDER TO AVOID DISRUPTION OF ANY TRAFFIC FLOW OR UTILITIES TO AND FROM THE EXISTING FACILITY.
3. CONTRACTOR SHALL SALVAGE RAILROAD BALLAST STONE FOR USE IN CONSTRUCTION/PM LAYDOWN AREA, EROSION CONTROL, AND CONSTRUCTION ENTRANCES. PLACE 6" LIFT IN AREA OF PM LAYDOWN AREA AS DIRECTED BY PROJECT MANAGER.
4. ~~SEE SHEET C4.6 FOR TRAFFIC LOGISTIC PLAN.~~
5. ~~SHOP DRAWINGS SHALL BE SUBMITTED FOR BOOMERANG TD 5200 SERIES FLUORESCENT ORANGE, BOLT DOWN TRAFFIC DELINEATORS AND INSTALL PER MANUFACTURER'S REQUIREMENTS.~~
6. REFER TO SHEET C4.0 FOR RIGHT-OF-WAY INFORMATION AND DIMENSIONS.

0 15 30 60
SCALE 1" = 30'

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LBYD, Inc.
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Suite 719
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Phone (256) 533-1575
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HUNTSVILLE The Heart of Alabama

VISITOR CENTER ACCESS PLAN

REDSTONE GATEWAY - PACKAGE 1A

CITY OF HUNTSVILLE
HUNTSVILLE, ALABAMA

REV	DATE	DRAWN	CHECKED	DESCRIPTION
1.0	6/23/11	BSJ	TAB	ADDENDUM 1 ON SHEETS 09 & 11 ISSUED
2	8/17/2011	TBE	TAB	RETAIL INTERSECTION
3	2/21/2011	TBE	TAB	MEDIUM DUTY

REV	DATE	DRAWN	CHECKED	DESCRIPTION
		TBE/TC	TC	PS&E COA REVIEW
				PRINCE

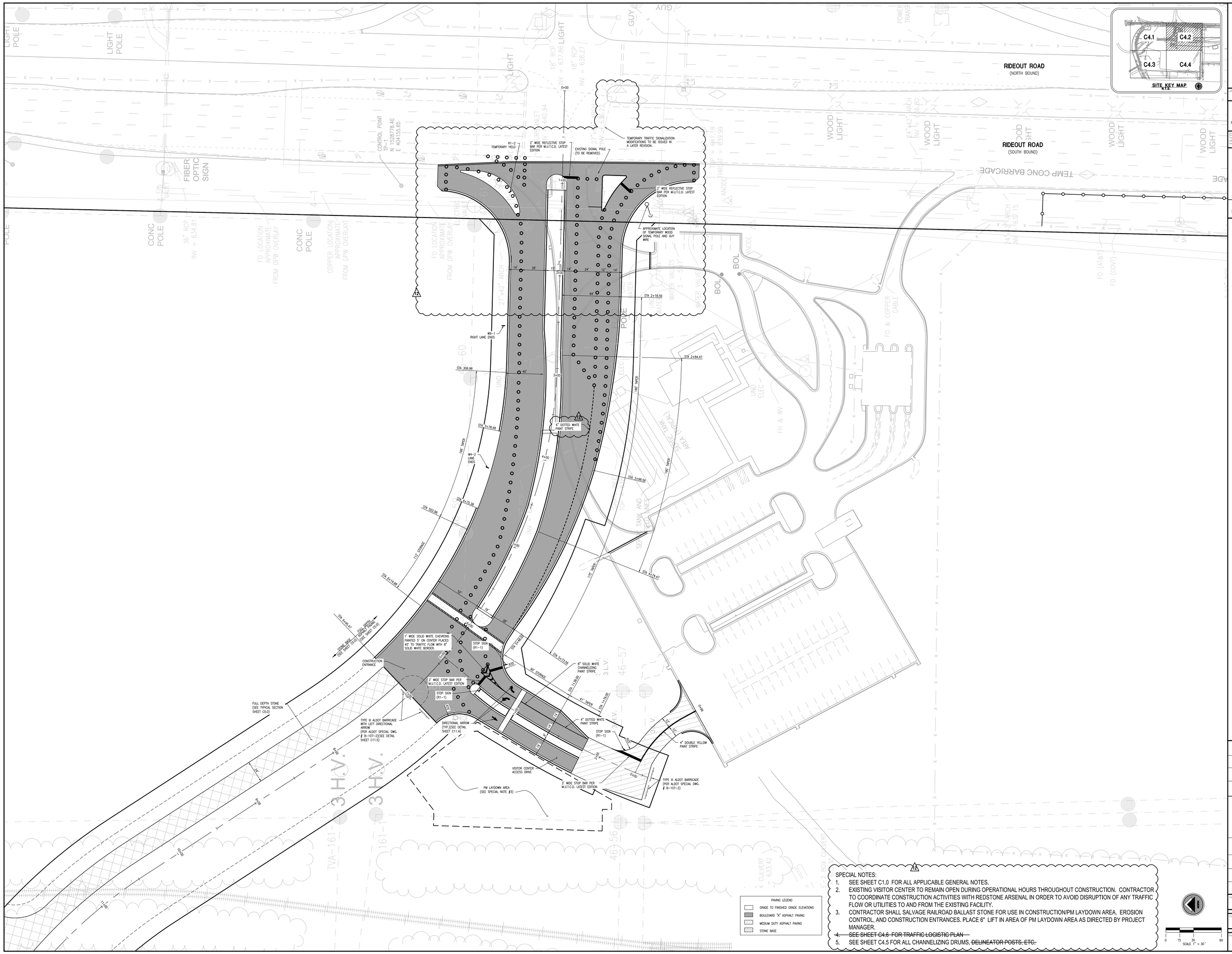
Date 12/16/2010

Checked By RAN

Drawn By BSJ

Sheet Number C4.5

Sequence 10 of 43



SPECIAL NOTES:

1. SEE SHEET C1.0 FOR ALL APPLICABLE GENERAL NOTES.
2. EXISTING VISITOR CENTER TO REMAIN OPEN DURING OPERATIONAL HOURS THROUGHOUT CONSTRUCTION. CONTRACTOR TO COORDINATE CONSTRUCTION ACTIVITIES WITH REDSTONE ARSENAL IN ORDER TO AVOID DISRUPTION OF ANY TRAFFIC FLOW OR UTILITIES TO AND FROM THE EXISTING FACILITY.
3. CONTRACTOR SHALL SALVAGE RAILROAD BALLAST STONE FOR USE IN CONSTRUCTION/PM LAYDOWN AREA, EROSION CONTROL, AND CONSTRUCTION ENTRANCES. PLACE 6" LIFT IN AREA OF PM LAYDOWN AREA AS DIRECTED BY PROJECT MANAGER.
4. ~~SEE SHEET C4.6 FOR TRAFFIC LOGISTIC PLAN~~
5. SEE SHEET C4.5 FOR ALL CHANNELIZING DRUMS. ~~DELINEATOR POSTS, ETC.~~

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LBYD Project Number
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LBYD, Inc.
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HUNTSVILLE The Heart of Alabama

STRIPING AND SIGNAGE PLAN

REDSTONE GATEWAY - PACKAGE 1A

CITY OF HUNTSVILLE
HUNTSVILLE, ALABAMA

REV	DATE	DRAWN	CHECKED	DESCRIPTION
1A	6/23/2011	BSJ	TAG	REVISIONS IN RESPONSE TO CITY COMMENTS
1B	8/17/2011	TBB	TAG	REVISIONS

TRAFFIC		PE	DRAWING
ROW		PE	

Date
12/16/2010

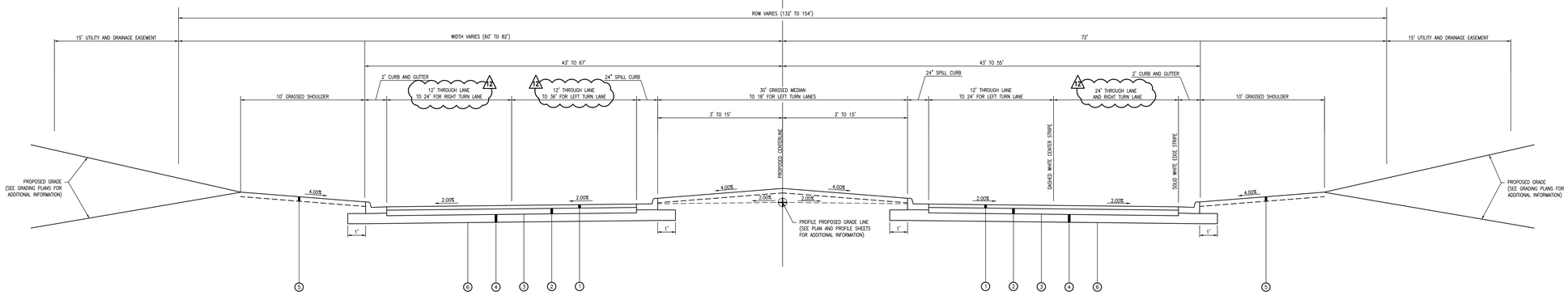
Drawn By
RAN

Project By
BSJ

Sheet Number
C4.7

Sequence
12

Total
43

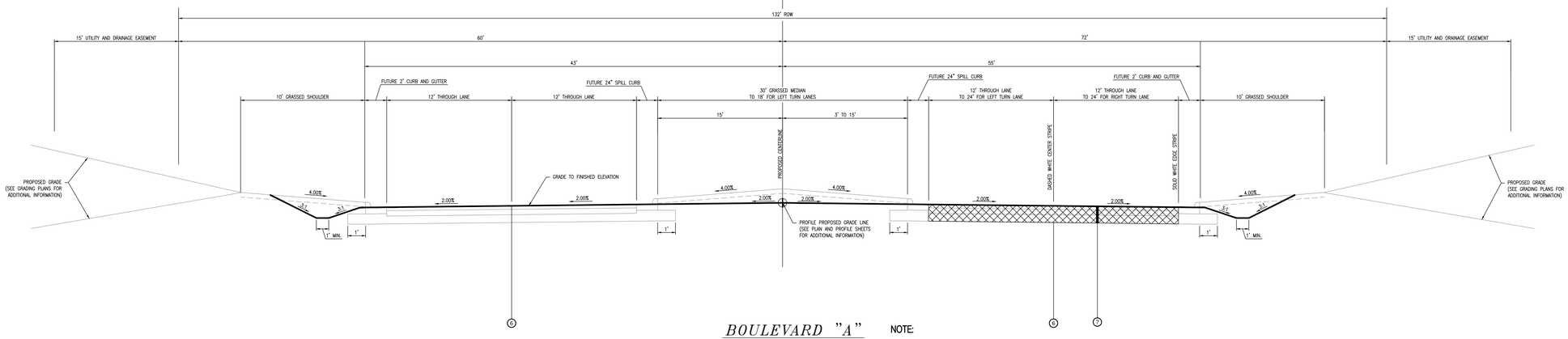


BOULEVARD "A"

STA 0+76.50 TO STA 6+95.47

SPECIAL NOTE:

1. WEARING SURFACE IS NOT IN CONTRACT. WEARING SURFACE FOR REMAINING BOULEVARD "A" WILL BE IN FUTURE CONTRACT.

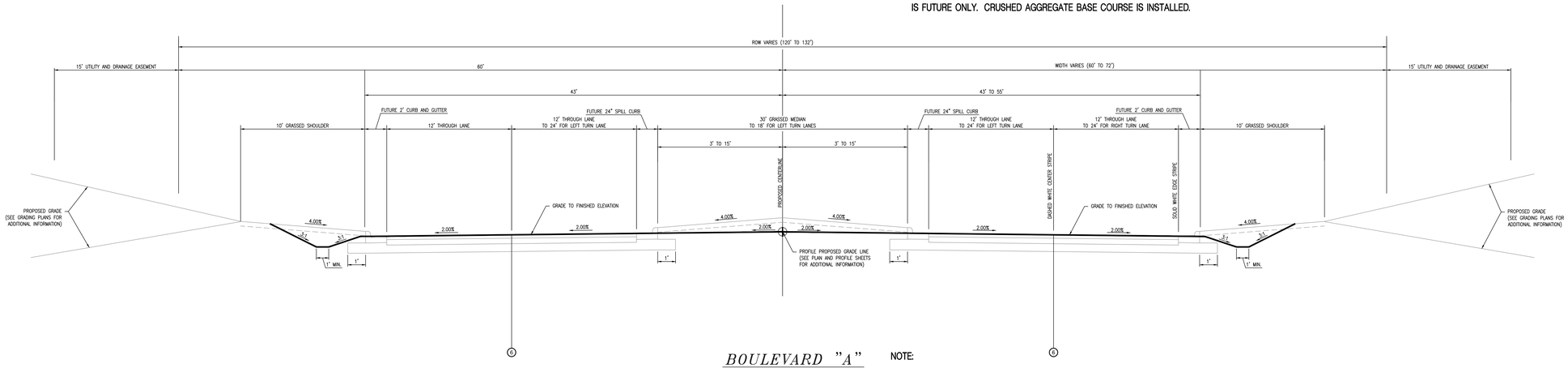


BOULEVARD "A"

STA 6+95.47 TO STA 12+26.60

NOTE:

1. ALL PROPOSED HARDSCAPE SHOWN FOR STA 6+95.47 TO STA 12+26.60 IS FUTURE ONLY. CRUSHED AGGREGATE BASE COURSE IS INSTALLED.

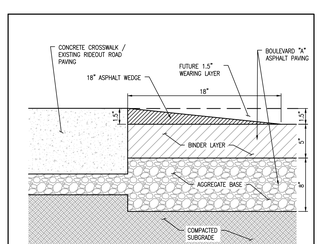


BOULEVARD "A"

STA 12+26.60 TO STA 40+25.00

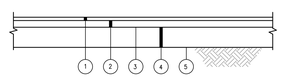
NOTE:

1. ALL PROPOSED HARDSCAPE SHOWN FOR STA 12+26.60 TO STA 40+25.00 IS FUTURE ONLY. CONTRACTOR SHALL GRADE TO FINISHED GRADE. SEE MASS GRADING PLANS FOR ADDITIONAL INFORMATION.



18" Asphalt Wedge

N.T.S.



1. SUPERPAVE BITUMINOUS CONCRETE WEARING SURFACE LAYER, ½" MAX AGGREGATE SIZE MIX, ESAL RANGE A, 165 LB/SY (1.5" THICK) (ALDOT 424-A)
2. SUPERPAVE BITUMINOUS CONCRETE BINDER LAYER, 1" MAX AGGREGATE SIZE MIX, ESAL RANGE A, 330 LB/SY (3.0" THICK)
3. REQUIRED TACK COAT (ALDOT 405).
4. 6" CRUSHED AGGREGATE BASE, TYPE B, PLANT MIXED, ALDOT SPEC 825.
5. SUBGRADE: TOP 12 INCHES – 98% COMPACTION (ASTM D-698).

NOTE: ALL MIX DESIGNS ARE PER THE "ALABAMA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION" – LATEST EDITION.

Medium Duty Asphalt Paving Section

N.T.S.

VISITOR CENTER ACCESS DRIVE

STA 0+00 TO END

BOULEVARD "A" REQUIRED MATERIALS LEGEND

LEGEND	ITEM	ITEM DESCRIPTION
1	424-A	SUPERPAVE BITUMINOUS CONCRETE WEARING SURFACE LAYER, ½" MAX AGGREGATE SIZE MIX, ESAL RANGE A, 165 LB/SY (1.5" THICK) (ONLY BETWEEN STA 0+76.50 TO STA 6+95.47)
2	424-A	SUPERPAVE BITUMINOUS CONCRETE BINDER LAYER, 1" MAX AGGREGATE SIZE MIX, ESAL RANGE A, 550 LB/SY (5.0" THICK)
3	405-A	TACK COAT
4	825	8" CRUSHED AGGREGATE BASE, TYPE B, PLANT MIXED, 4" COMPACTED THICKNESS (2 LAYERS), ALDOT SPEC 825.
5	650A-000 650B-000	TOPSOIL(APPROXIMATELY 4" THICK) OR TOPSOIL FROM STOCKPILES(APPROXIMATELY 4" THICK)
6	210A-000 210D-000	UNCLASSIFIED EXCAVATION OR BORROW EXCAVATION
7	825	13" CRUSHED AGGREGATE BASE, TYPE B, PLANT MIXED, 4" COMPACTED THICKNESS (4 LAYERS), ALDOT SPEC 825.

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Civil and Structural Engineers
Atlanta, Georgia
Birmingham, Alabama
Huntsville, Alabama
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LBYD, Inc.
305 Church Street SW
Suite 719
Huntsville, AL 35801
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HUNTSVILLE The Heart of Alabama

BOULEVARD 'A' - TYPICAL SECTIONS

REDSTONE GATEWAY - PACKAGE 1A

CITY OF HUNTSVILLE
HUNTSVILLE, ALABAMA

REV	DATE	DRAWN	CHECKED	DESCRIPTION	TRAFFIC	FIELD ENGR. REVIEW	PE	DRAWING
12	6/20/11	BSJ	TJM	REBIDOUT BIDAD INTRODUCTION				

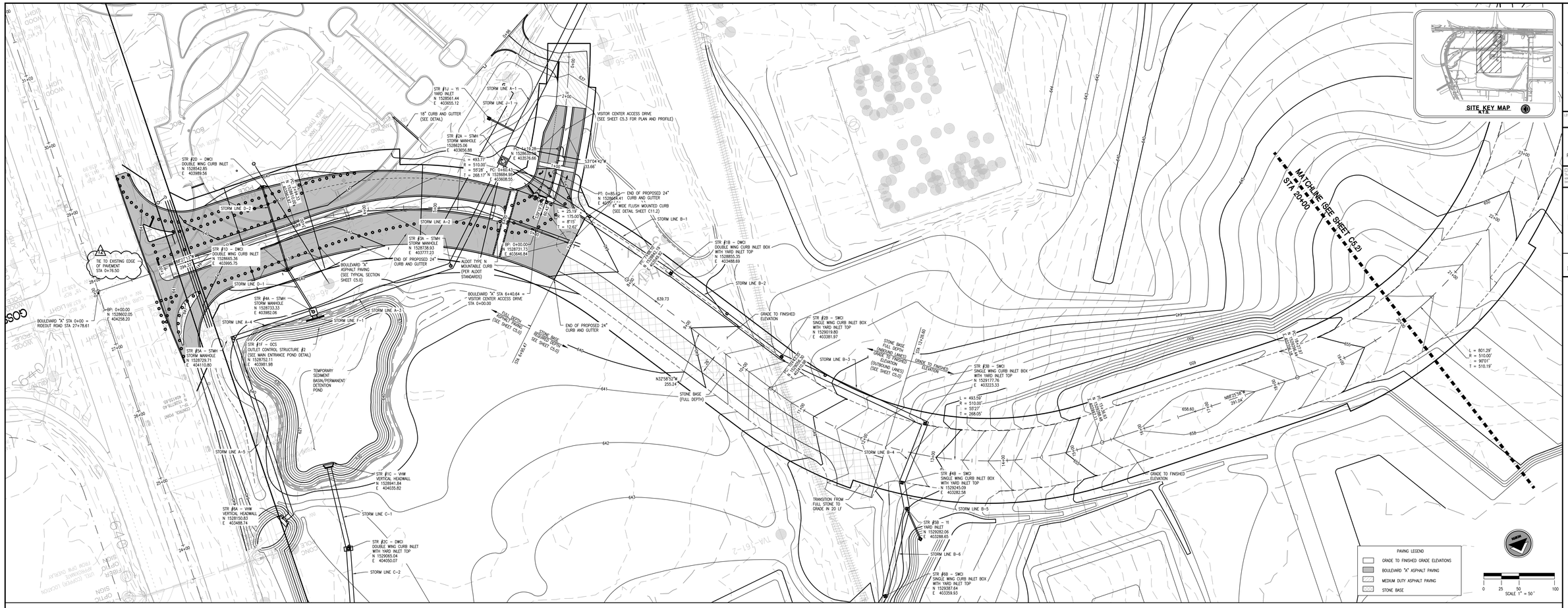
Date: 12/16/2010

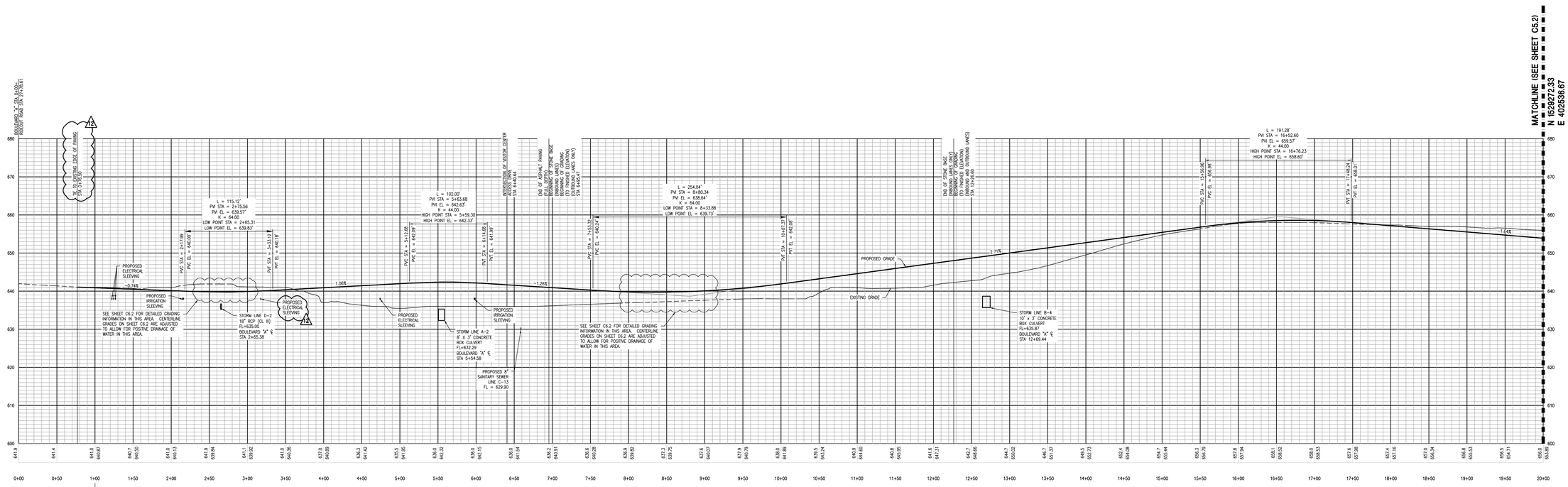
Checked By: RAN

Drawn By: BSJ

Sheet Number: C5.0

Drawing No. 14 of 43





NOTES:

1. SEE SHEET C5.0 FOR THE TYPICAL SECTION INFORMATION AND THE PROPOSED GRADE POINT.
2. SEE SHEETS C6.1 THRU C6.4 AND C10.0 FOR ALL STORM DRAINAGE INFORMATION.
3. SEE SHEET C7.1 FOR ELECTRICAL AND IRRIGATION SLEEVES.
4. SEE SHEET C5.3 FOR VISITOR CENTER ACCESS DRIVE PLAN AND PROFILE.

SCALE:
1"=50' HORIZONTAL
1"=10' VERTICAL

PROPOSED FINISHED GRADE
EXISTING GRADE

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LBYD, Inc.
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Huntsville, AL 35801
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HUNTSVILLE
City Team of Alabama

BOULEVARD'A' - PLAN AND PROFILE (STA 0+00 TO STA 20+00)

REDSTONE GATEWAY - PACKAGE 1A

CITY OF HUNTSVILLE
HUNTSVILLE, ALABAMA

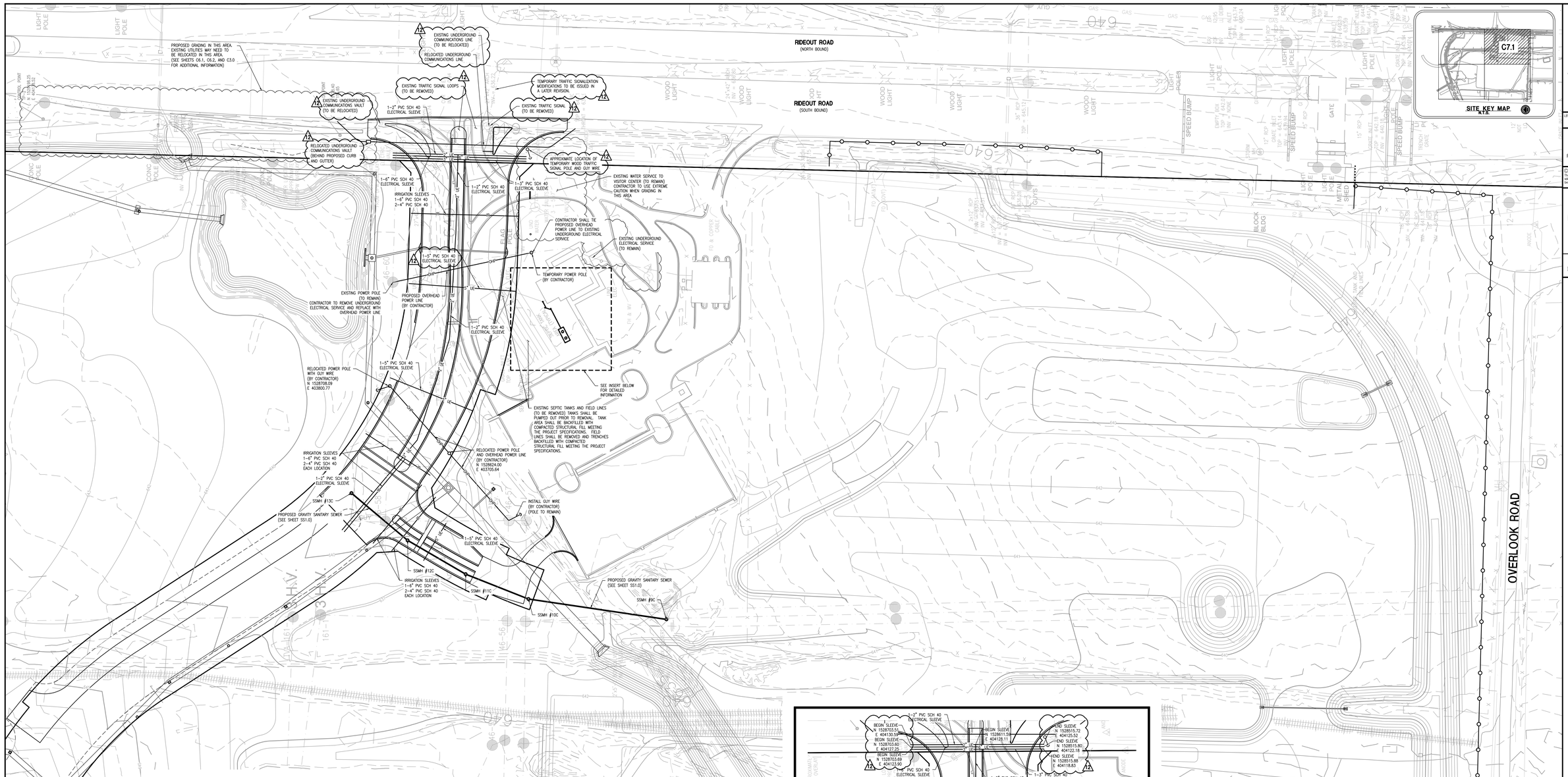
REV	DATE	DRAWN	CHECKED	DESCRIPTION
12	8/23/2011	BSU	TAB	RIDEOUT ROAD INTERSECTION
10	8/17/2011	TBB	TAB	BOULEVARD "A" ASPHALT

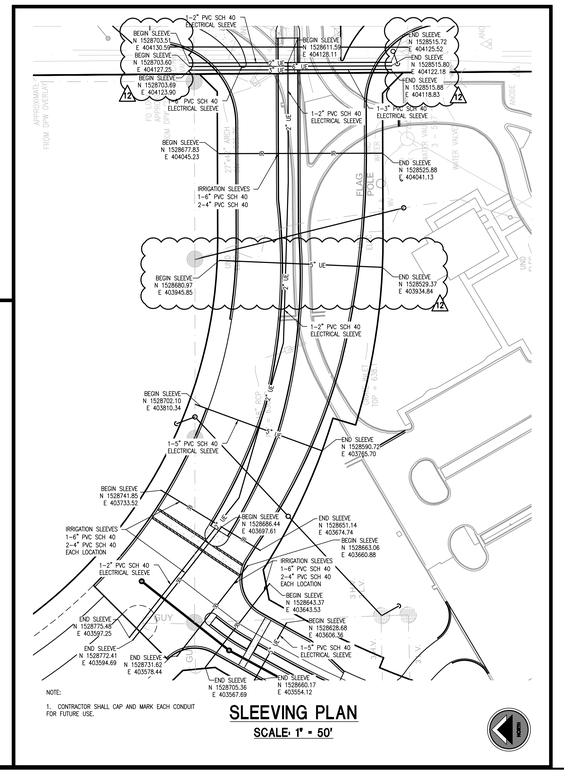
INIT.	DATE	REVISION
RAN	6/23/11	PC COM REVIEW

Date: 12/16/2010

Checked By: RAN
Drawn By: BSJ

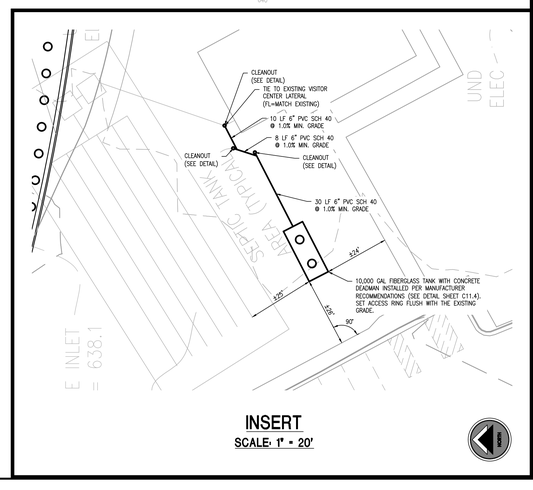
Sheet Number: C5.1
Revision: 15
Total Sheets: 43





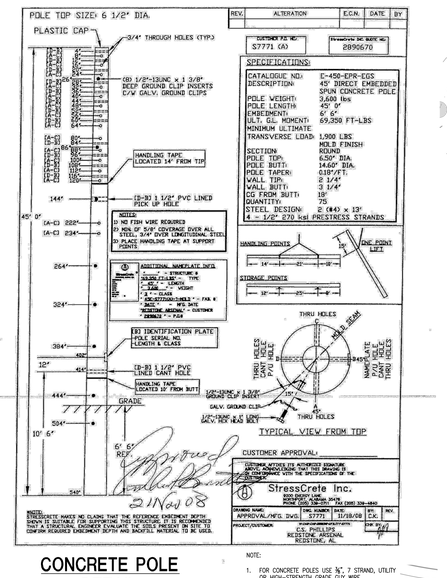
SLEEVING PLAN

SCALE: 1" = 50'



INSERT

SCALE: 1" = 20'



CONCRETE POLE DETAIL

NOTE:

1. FOR CONCRETE POLES USE ¾", 7 STRAND, UTILITY OR HIGH-STRENGTH GRADE GUY WIRE.
2. FOR WOOD POLES USE ¾", 7 STRAND, COMMON GRADE GUY WIRE.

MINIMUM BREAKING STRENGTH OF STRAND:

UTILITY GRADE = 11,500 Lbs
HIGH-STRENGTH GRADE = 10,800 Lbs
COMMON GRADE = 4,250 Lbs

SPECIAL NOTES:

1. SEE SHEET C1.0 FOR ALL APPLICABLE PROJECT GENERAL NOTES.
2. SEE DEMOLITION SHEET C3.0 FOR EXISTING POWER POLES TO REMAIN AND TO BE REMOVED.
3. CONTRACTOR SHALL NOTIFY TRENT HALL WITH HUNTSVILLE UTILITIES AT (256) 652-8620 OR trent.hall@hsvutil.org AT LEAST 48 HOURS PRIOR TO ANY ELECTRICAL WORK THAT IS TO BE INSPECTED AND APPROVED.
4. SEE SHEET C11.3 FOR SLEEVE DETAIL.

0 25 50 100
SCALE 1" = 50'

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Atlanta, Georgia
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Huntsville, Alabama
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LBYD, Inc.
305 Church Street SW
Suite 719
Huntsville, AL 35801
Phone (256) 533-1575
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HUNTSVILLE The Heart of Alabama

REV.	DATE	DRAWN	CHECKED	DESCRIPTION
12	6/23/11	BSJ	TAG	MODIFIED A 1ES, A 1A & A 1B, C 6.0-C7
10	6/7/2011	TBE	TAG	REVISED SEDIMENTATION SLEEVES
7	3/15/11	TBE	TAG	NEW OVERHEAD POWER
3	2/4/2011	TBE	TAG	ADDED SANITARY SEWER

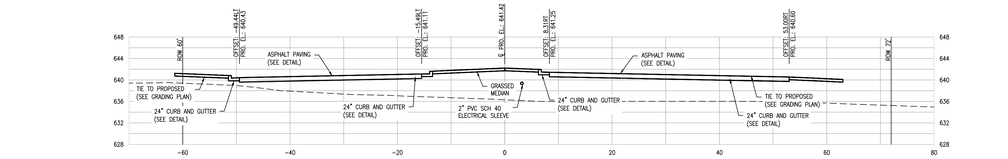
REV.	DATE	TRAFFIC	ENG. CITY REVIEW	PE	DRAWING

Date 12/16/2010

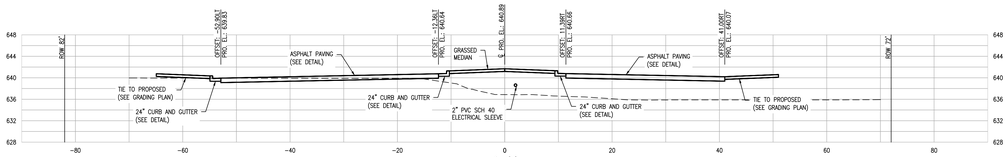
Checked By RAN | Drawn By BSJ

Sheet Number C7.1 | Sequence 25 of 43

UTILITY PLAN
REDSTONE GATEWAY - PACKAGE 1A
CITY OF HUNTSVILLE
HUNTSVILLE, ALABAMA



4+50



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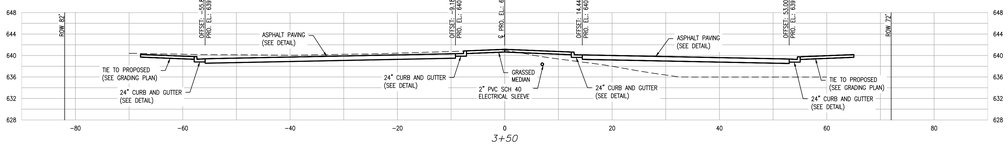
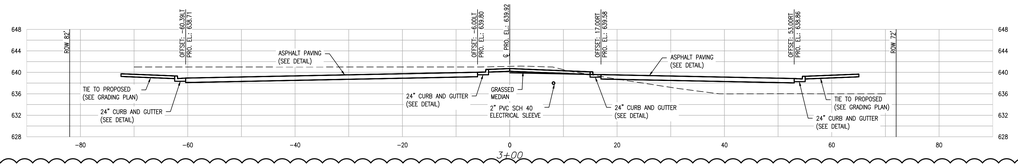


3+50



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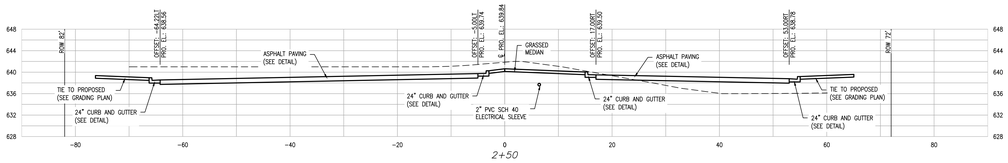

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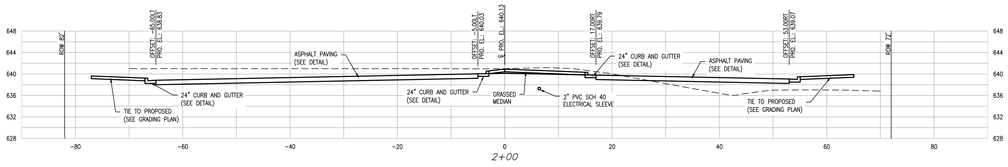

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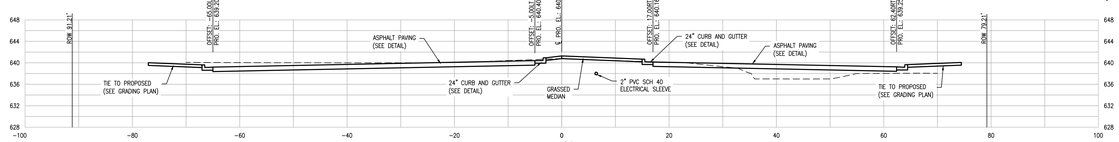

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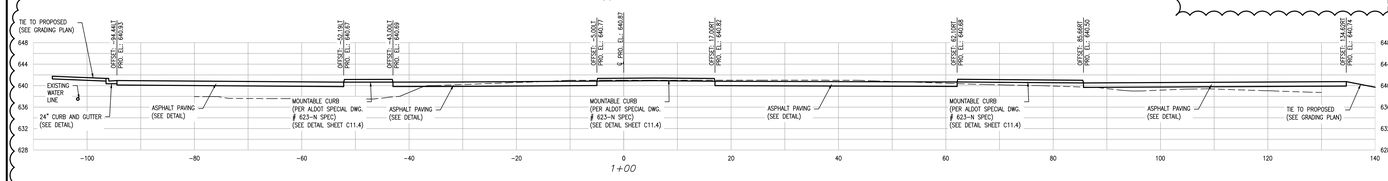

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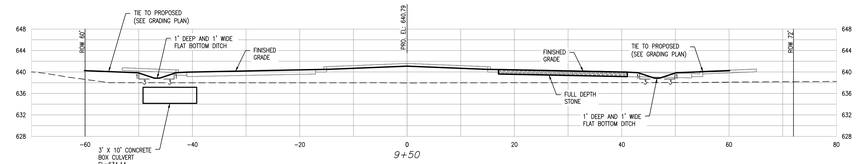

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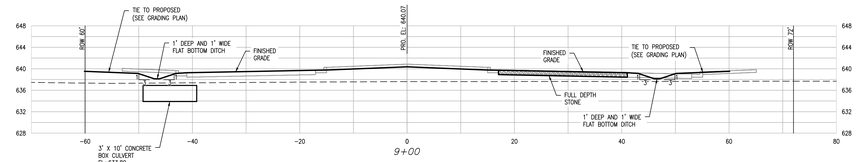

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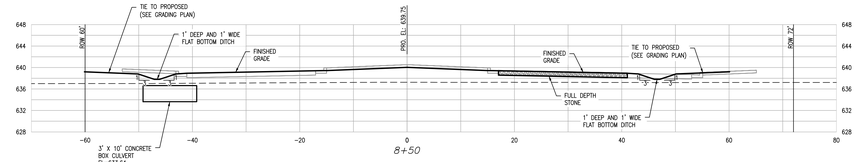

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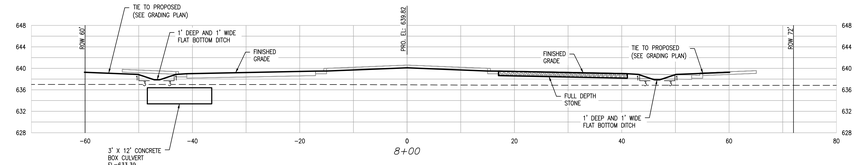

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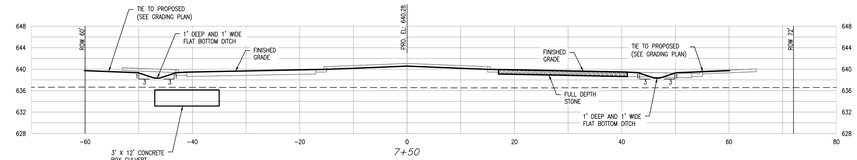

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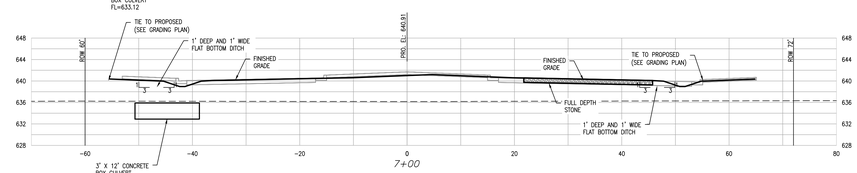

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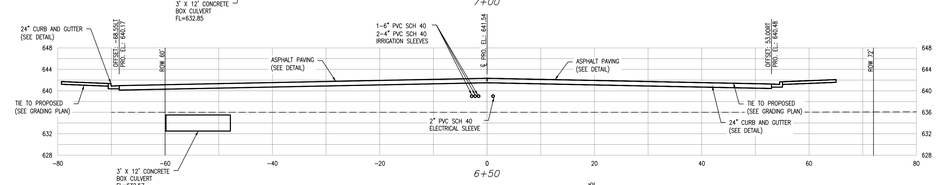

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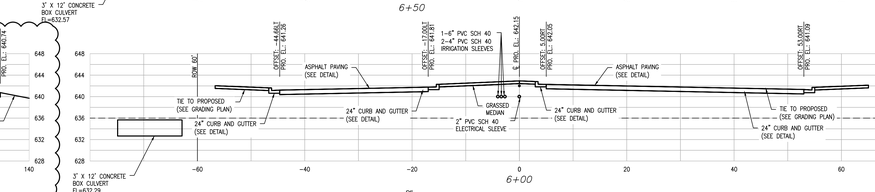

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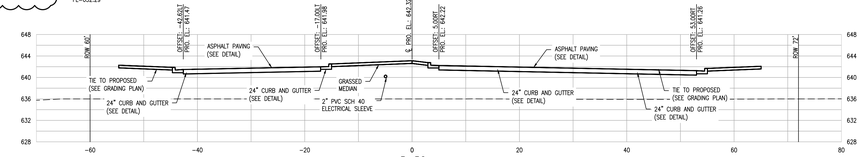

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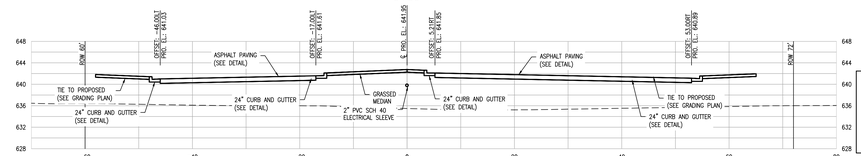

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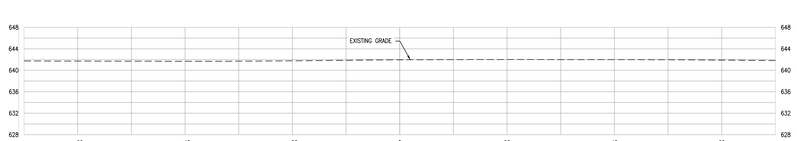

0+00

SCALE:
1"=10' HORIZONTAL
1"=10' VERTICAL

PROPOSED GRADE ———
EXISTING GRADE - - -

NOTES:
1. SEE TYPICAL SECTION SHEET C5.0 FOR DETAILED BOULEVARD "A" BUILD-UP.
2. SEE SHEETS C6.1 TO C6.4 FOR ALL PROPOSED GRADES.

LBYD
Civil and Structural Engineers
Atlanta, Georgia
Birmingham, Alabama
Huntsville, Alabama
www.lbyd.com

LBYD Project Number
302-10-002A

LBYD, Inc.
305 Church Street SW
Suite 719
Huntsville, AL 35801
Phone (256) 533-1575
Fax (256) 533-1744

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ALABAMA REGISTERED No. 26754 PROFESSIONAL ENGINEER
6/23/2011

HUNTSVILLE
The Heart of Alabama

BOULEVARD "A" - CROSS SECTIONS ISTA 0+00 TO STA 9+50I

REDSTONE GATEWAY - PACKAGE 1A

CITY OF HUNTSVILLE
HUNTSVILLE, ALABAMA

REV	DATE	DRAWN	CHECKED	DESCRIPTION	PE	DRAWING
1	8/20/11	BSJ	TKM	REVISED 1.25; 1.50 & 9.75-10.00		

Date
12/16/2010

Checked By: RAN
Drawn By: BSJ

Sheet Number: C9.0
Sheet 30 of 43