August 2021

Construction Plans

for the

SOUTH MAIN STREET IMPROVEMENTS

(SW 8th STREET to SW 2nd STREET)

City of Bentonville, Arkansas

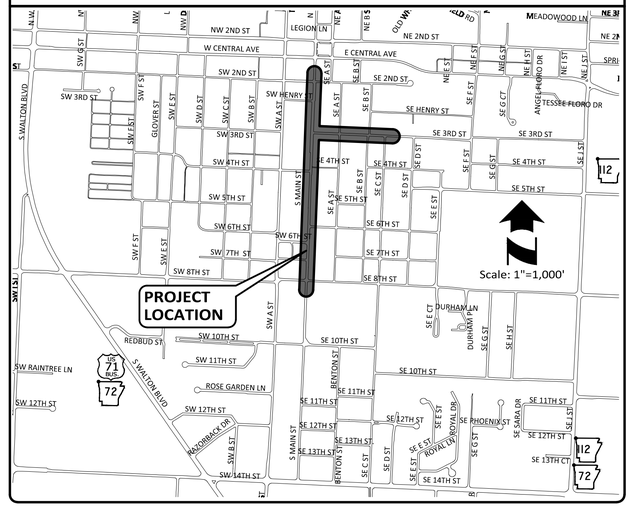
(Project #PIIP20-0002)

THE CITY OF BENTONVILLE

100% Plans Issued for Bidding 8.15.2021

VICINITY MAP

Scale: 1"=1,000'



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CERTIFICATE OF AUTHORIZATION MORRISON-SHIPLEY ENGINEERS, INC. No. 281 ARKANSAS

STATE OF ARKANSAS LICENSED PROFESSIONAL ENGINEER No. 10222 BRIAN S. MAUREE 8/15/2021

The Original Signed and Sealed Document is on file at the Office of Record

MORRISON SHIPLEY

2407 SE COTTONWOOD STREET • BENTONVILLE, AR 72712 • 479.273.2209 • MORRISONSHIPLEY.COM

SOUTH MAIN STREET IMPROVEMENTS (SW 8th Street to SW 2nd Street) - (BTV-04A)

Drawing Name: M:\SDSK\PROJ\BTV-04A\DRAFTING\BTV-04A BASE.dwg Last Modified: Aug 13, 2021 – 1:37pm Plotted on: Aug 13, 2021 – 1:41pm by dcorreira

GENERAL NOTES

1. Construction Shall Take Place Entirely Within The Project Limits. Project Limits Are Within The Street Right-Of-Way And/Or Within Permanent And Temporary Easements If Noted On The Plans. No Entry Onto Private Property Is Granted By The City Of Bentonville. Contractor Shall Be Responsible For Obtaining Staging Areas At His Cost.
2. The Contractor Is Hereby Cautioned That The Locations Of Existing Underground Utilities As Shown On The Plans Are Based On One-Call Locator Markings. The Engineer Does Not Guarantee, Nor Shall The Contractor Rely On The Locations, Vertical Or Horizontal, Noted On The Plans As Being Exact Or Complete. Actual Locations May Vary From The Locations Noted On The Plans, And Some Underground Utilities May Exist, But Are Not Shown On The Plans. No Excavations Were Made To Locate Underground Utilities During The Engineering Design Process. The Locations Of All Existing Utilities Shown On This Plan Have Been Determined From The Best Information Available And Are Given For The Convenience Of The Contractor. The Engineer Assumes No Responsibility For Their Accuracy.
3. Prior To The Start Of Any Demolition Activity, The Contractor Shall Notify The Utility Companies For Marking Onsite Locations Of Existing Utilities.Contractor Shall Contact Arkansas One-Call For Underground Utilities To Be Marked And Shall Be Responsible For Confirming Location Of All Such Underground Utilities Before Commencing Any Demolition/Excavation Operations.
4. Contractor Shall Maintain Property & Mailbox Access During Construction And Shall Schedule Temporary Closures With All Property Owners Or Tenants. No Street Or Driveway Closures Shall Be Allowed During Nights, Weekends, Or Holidays.
5. Unless Specifically Noted Otherwise On The Plans, All Trees, Shrubs, Irrigation Systems, Fences And Other Landscaping Shall Not Be Disturbed. If Landscaping Is Disturbed Due To Conflict With Proposed Improvements, Contractor Shall Restore Or Replace It To Its Original Condition At Contractor's Expense. All Areas Disturbed by the Contractor During Construction Shall Be Graded Smooth and Sodded (with 2" Topsoil) Upon Completion Of Construction And Maintained Until Project is Accepted by Owner.
6. Unless Otherwise Specifically Noted On Plans, Restoration, Relocation Or Repair Of Exist. Water/Sewer Mains Or Services That Are In Conflict With The Proposed Improvements Shall Be Considered Incidental To The Cost Of Construction With No Separate Payment Being Made.
7. The Plans Indicate The Locations Of Temporary Benchmarks (TBM). Use Only Those Benchmarks Noted On The Plans As TBM's For Elevation Datum. Other Elevations Noted On The Plans Are For Information Purposes Only, And Shall Not Be Use As Benchmarks. Elevations On The Plans Shall Be Confirmed By The Contractor Before Commencing With Construction. Additionally, Contractor Shall Verify Final Rim Elevations With Engineer Prior To Placement Of Rim.
8. Contractor Shall Protect All Land Monuments Located Within The Construction Area During All Phases Of Construction. Contractor Shall, At His Expense, Employ A Registered Professional Land Surveyor To Reestablish Any Disturbed Monuments.
9. Contractor Shall Notify And Coordinate With The Appropriate Franchised Utility Company Before Commencing With Any Construction Operations Immediately Adjacent To Existing Power Poles And/Or Guy Wires To Allow The Poles To Be Properly Supported If Necessary. Should It Be Necessary, Any Conflicting Franchise Utility Shall be Relocated By The Appropriate Franchised Utility Company.
10. The Owner Will Provide Quality Assurance Testing In Accordance With The Specifications For The Purpose Of Determining Acceptability Of All Materials, Including Asphalt, Concrete And Trench Backfill Materials And Compaction.
11. Contractor Shall Uncover Existing Utility Lines And Services Where The Proposed Drainage Improvements Cross, And Verify Grades, Sizes, And Locations Of Such Before Commencing Construction. Not All Existing Utility Lines And Services/Connections Are Shown On The Plans And Those That Are Shown Were Not Located During Design. Additionally, Before Commencing Construction, Contractor Shall Verify Inverts Of Existing Drainage Facilities At Proposed Tie-In Points To Proposed Drainage Improvements. Contractor Shall Notify Engineer Of Any Conflicts Prior To Commencing Construction To Allow Engineer To Make Necessary Design Revisions.
12. The Contractor Shall Be Solely And Completely Responsible For Conditions At The Job Site, Including Safety Of All Persons And Property During All Phases Of Construction Of The Project. This Requirement Shall Apply Continuously And Shall Not Be Limited To Construction Working Hours. It Is The Contractor's Responsibility To Take All Precautions Necessary To Avoid Property Damage To Adjacent Properties During The Construction Phases Of This Project.
13. No Work Shall Begin Until Appropriate Erosion Control Measures Have Been Installed And Inspected By The City. The Contractor Shall Take All Precautions To Prevent Soil Sediment From Leaving The Site. Contractor Shall Seed, Fertilize, And Mulch All Disturbed Areas. All Erosion Control Measures Shall Be Maintained Until All Contributing Areas Are Graded And Stabilized With Vegetation. Contractor Shall Comply In Full With The Owner Provided SWPPP.
14. It Shall Be Understood by Contractor That Work Not Specifically Indicated In The Contract Documents Which Is Required To Complete This Project Shall Not Relieve The Contractor Of His/Her Responsibility To Perform Such Work.
15. Contractor Shall Provide Each Customer A Forty-Eight Hour Advance Written Notice Prior To Scheduling Temporary Shut-off Of Any Water And/or Sewer Service. Include In The Customer Notice A Reasonable Estimate Of Disruption Time. All Service Shall Be Restored To The Customer By The End Of Each Work Day. Contractor Shall Coordinate Any Temporary Shut-Off With The Gravette Utilities Department.
16. The Contractor Shall Not Close Any Public Traffic-way (Street, Road, Sidewalk, Etc.) Until He Has Obtained The Necessary Permits, The Permission Of The Appropriate Authorities And Has Notified The Local Fire And Police Departments And Ambulance Service. Contractor Shall Maintain One (1) Lane Open To Local Traffic At All Times And/or Provide a Safe, Substitute Route if Necessary For Any Portion Of a Trafficway Obstructed Wholly or Partially By His Operations. See Section 120 Of The Technical Specifications For Additional Information Regarding Traffic Control and Maintenance.
17. The Contractor Shall Coordinate With Respective Utility Companies Prior To The Removal/Relocation Of Utilities. The Contractor Shall Coordinate With The Utility Company Concerning Portions Of Work Which May Be Performed By The Utility Company's Forces And Any Fees Which Are To Be Paid To The Utility Company For Their Services. The Contractor Is Responsible For Paying All Fees And Charges.
18. All Signage, Pavement Markings, And Striping Shall Conform To The Manual Of Uniform Traffic Control Devices (MUTCD) Standards And Regulations.
19. Contractor Shall Comply With All Applicable Laws, Codes and Ordinances.

LANDSCAPING NOTES

1. The Contractor Shall Furnish All Labor, Materials, Tools, Equipment, And Related Items Required For The Complete Installation Of Landscape.
2. All Plant Material Shall Be Nursery Grown. Plant Material Sizes And Grading Shall Comply With The Latest Edition Of American Standards For Nursery Stock, Published By The American Nursery And Landscape Association.
3. All Plant Material Shall Be Healthy And Free From All Visible Signs Of Disease Or Pest Infestation.
4. Contractor Shall Ascertain Location Of All Utilities Prior To Excavation. Prior To Commencing With Any Work, Contact The State One-call.
5. No Changes To Approved Plant Schedule (If Any) Will Be Allowed Without The Approval Of The City Of Bentonville And The Owner's Representative.
6. The Contractor Shall Provide A Two Year Minimum Warranty For All Proposed Plant Materials And Installation From The Date Of Acceptance, Or As Required By The City Of Bentonville.
7. The Contractor Shall Spoil Any Excess Topsoil Located On The Site That Is Not Required To Perform Landscape Operations. If Sufficient Topsoil Is Not Present On Site, The Contractor Shall Import Topsoil To The Site In Order To Complete The Landscape Operations.
8. In All Planting Beds, Sod Shall Be Removed Entirely And Soil Shall Be Amended With 12 Inches Of Topsoil And A Minimum Of 6 Inches Of Compost Tilled Into The Beds.
9. Hardwood Mulch And Weed Barrier Fabric ,Shall Be Applied To All Planting Beds Shown On This Plan.
10. All Trees Shall Be Installed, Mulched, Guyed, And Staked Per The Details. All Shrubs Shall Be Mulched Per The Details.
11. Irrigation System Shall Be Designed By Others. Irrigation System Shall Be Underground Sprinkler System Or Drip Irrigation System. The System Shall Be Protected By An RP Type Backflow Preventor. Backflow Prevention Assemblies Installed Outdoor Shall Be Protected By An Enclosure Which Complies With The Standards And Specifications Set Forth By The American Society Of Sanitary Engineering (ASSE) Code 1060.
12. Proposed Trees Shall Be Placed A Minimum Distance Of 3' From Fire Hydrants, 25' From Overhead Utility Lines, And 5' From Any Public Underground Utility.
13. Contractor Shall Replace All Dead, Diseased, and Damaged Trees on Site. Coordinate with the Landscape Architect.
14. Once Installed, Landscaping Shall Be Maintained In Healthy Living Condition And All Plant Material That Dies Shall Be Replaced. (Sec. 1400.05 (b) 12)
15. Trees Shall Not Be Topped At Any Time And Proper Tree Pruning Techniques As Established By The Latest Addition Of ANSI A300 'Standards For Tree Care' Shall Be Utilized For Maintenance purposes. (Sec 1400.05 (b) 13)
16. Healthy Trees Shall Not Be Removed At Any Time And Proper Tree Pruning Techniques As Established By The Latest Addition Of ANSI A300 'Standards For Tree Care' Shall Be Utilized For Maintenance purposes. (Sec 1400.05 (b) 14)
17. Living Materials, Such As Lawn, Grass Or Herbaceous Groundcovers Like Juniper Or Liriope, Etc., Shall Cover A Minimum Of Eighty Percent (80%) Of The Planting Islands. One Hundred Percent (100%) Of living Material Is Strongly Encouraged. (Sec. 1400.04 G)
18. Where potential Utility Conflicts With Landscaping, Utility Locations Shall Be Field Verified.

PLANT SCHEDULE

Key	Common Name	Botanical Name	Size	Spacing	Quantity
PY	Espresso Kentucky Coffeetree	Gymnocladus dioicus 'Espresso-JFS'	3" Cal. B&B	As Shown	24
CB	'Fastigiata' European Hornbeam	Carpinus betulus 'Fastigiata'	3" Cal. B&B	As Shown	44

NOTE: Tree Canopy Shall Be Min. 96" Above Finished Ground.

LEGEND

- Proposed Asphalt Pavement Overlay W/ Conc. Curb & Gutter
- Proposed Baseline for Construction
- Proposed Asphalt Pavement Overlay For Utility/Storm Drain Crossing
- Proposed Concrete Sidewalk (4'-6" Wide Typ.)
- Proposed Concrete Sidewalk (12' Wide Typ.)
- Proposed Handicap Ramp
- Proposed Stamped Concrete Crosswalk
- >24" Proposed RCP Storm Drain W/Size
- Proposed Curb Inlet or Junction Box
- Proposed Grate Inlet
- Proposed Drainage Flowline
- Proposed 6'x6' Tree Grate
- Proposed Brick Pavers
- Proposed Espresso Kentucky Coffeetree
- Proposed 'Fastigiata' European Hornbeam
- >24" Existing Storm Drain w/ Size (Abandon in Place)
- TS=1290.00 Proposed Top of Sidewalk Spot Elevation
- TC=1290.00 Proposed Top of Curb Spot Elevation
- G=1290.00 Proposed Gutter Spot Elevation
- Existing Asphalt Pavement
- Existing Concrete Pavement
- Existing Gravel
- P Existing Property Line
- Existing Centerline Alignment
- Existing Easement
- TCE Temporary Construction Easement
- R/W Existing Right-of-Way
- Existing Concrete Sidewalk
- Existing Handicap Ramp
- Existing Concrete Channel
- >18" RCP Existing Storm Drain W/Size&Type
- Existing Storm Drain Inlet/ Junction Box
- Existing Grate Inlet
- Existing Flared End Section
- Existing Drainage Flowline
- 8"W Existing Water Line W/Size
- W Existing Water Service Line
- Existing Fire Hydrant
- Existing Water Valve
- Existing Water Meter
- >8"SS Existing Sanitary Sewer Line W/ Size
- Existing Manhole
- S Existing Sanitary Sewer Service Line
- Existing Overhead Electric
- Existing Light Pole
- Existing Power Pole
- T Existing UG Telephone Line
- Existing Telephone Pedestal
- G Existing Gas Line
- Existing Gas Meter
- x Existing Fence
- 1330 1331 Existing Grade Contours
- Existing Tree

SITE UTILITY CONTACTS

NATURAL GAS
BLACK HILLS ENERGY
CONTACT: JOSH KNIGHT
1301 FEDERAL WAY
PO BOX 2129
LOWELL, AR 72745
PHONE: (479) 721-4543
EMAIL: joshua.knight@blackhillscorp.com

CABLE TELEVISION
COX COMMUNICATIONS
CONTACT: KIP SMITH
4901 S. 48th STREET
SPRINGDALE, ARKANSAS
PHONE: (479) 717-3796
EMAIL: kip.smith@cox.com

WATER & SEWER
CITY OF BENTONVILLE
CONTACT: PRESTON NEWBILL
3200 S.W. MUNICIPAL DRIVE
BENTONVILLE, ARKANSAS 72712
PHONE: (479) 271-3140

ELECTRIC
CITY OF BENTONVILLE
CONTACT: CHARLIE BARNES
3200 S.W. MUNICIPAL DRIVE
BENTONVILLE, AR 72712
PHONE: (479) 271-3159

TELEPHONE
AT&T
CONTACT: SCOTT SEAMAN
PHONE: 479-442-1967
CONTACT: LAYNE RHODES
PHONE: (479) 442-1977
627 WHITE ROAD
SPRINGDALE, ARKANSAS 72766

WASTEWATER
CITY OF BENTONVILLE
CONTACT: NANCY BUSEN
1901 NE A STREET
BENTONVILLE, ARKANSAS
PHONE: (479) 271-3160

FIRE DEPARTMENT
CITY OF BENTONVILLE
CONTACT: BRENT BOYDSTON (FIRE CHIEF)
800 SW "A" STREET
BENTONVILLE, ARKANSAS 72712
PHONE: (479) 271-5927

GOVERNING AGENCIES CONTACTS

CITY OF BENTONVILLE
3200 S.W. MUNICIPAL DRIVE
BENTONVILLE, ARKANSAS 72712

CITY PLANNING
CONTACT: ELLEN NORVELL
305 SW A ST.
PHONE: (479) 271-5993

STREET DEPARTMENT
CONTACT: TONY DAVIS
PHONE: (479) 271-3130

PUBLIC WORKS
CONTACT: MIKE BENDER
PHONE: (479) 271-6720

CITY ENGINEER
CONTACT: DAN WEESE
PHONE: (479) 271-5993

BUILDING INSPECTION
PHONE: (479) 271-3125

STORMWATER
CONTACT: JANET PAITH
PHONE: (479) 271-5002
jpaith@bentonvillear.com

DEPARTMENT OF HEALTH
ARKANSAS DEPARTMENT OF HEALTH
DIVISION OF ENGINEERING, SLOT 37
4815 W. MARKHAM
LITTLE ROCK, AR 72205
PHONE: (501) 661-2623

Revision	By	Date

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STATE OF ARKANSAS LICENSED PROFESSIONAL ENGINEER No.10222 BRIAN S. MAURER 8/15/2021
The Original Signed and Sealed Document is on file at the Office of Record

Drawn By:	JMN
Approved By:	BSM
Date:	8.15.2021
Project No.:	BTV-04A
Vertical Scale:	–
Horizontal Scale:	–
Plotting Scale:	1
City Project No.	PIIP20-0002

SOUTH MAIN STREET IMPROVEMENTS
(SW 8th Street to SW 2nd Street)
Bentonville, Benton County, Arkansas

LEGEND, GENERAL and LANDSCAPING NOTES and CONTACTS
Issued for Bidding – 8.15.2021

Sheet No.: 2 of 44

Drawing Name: M:\SOS\PROJ\BTV-04A\DRAFTING\BTV-04A BASE.dwg Last Modified: Aug 13, 2021 - 1:37pm Plotted on: Aug 13, 2021 - 1:41pm by dcarreira

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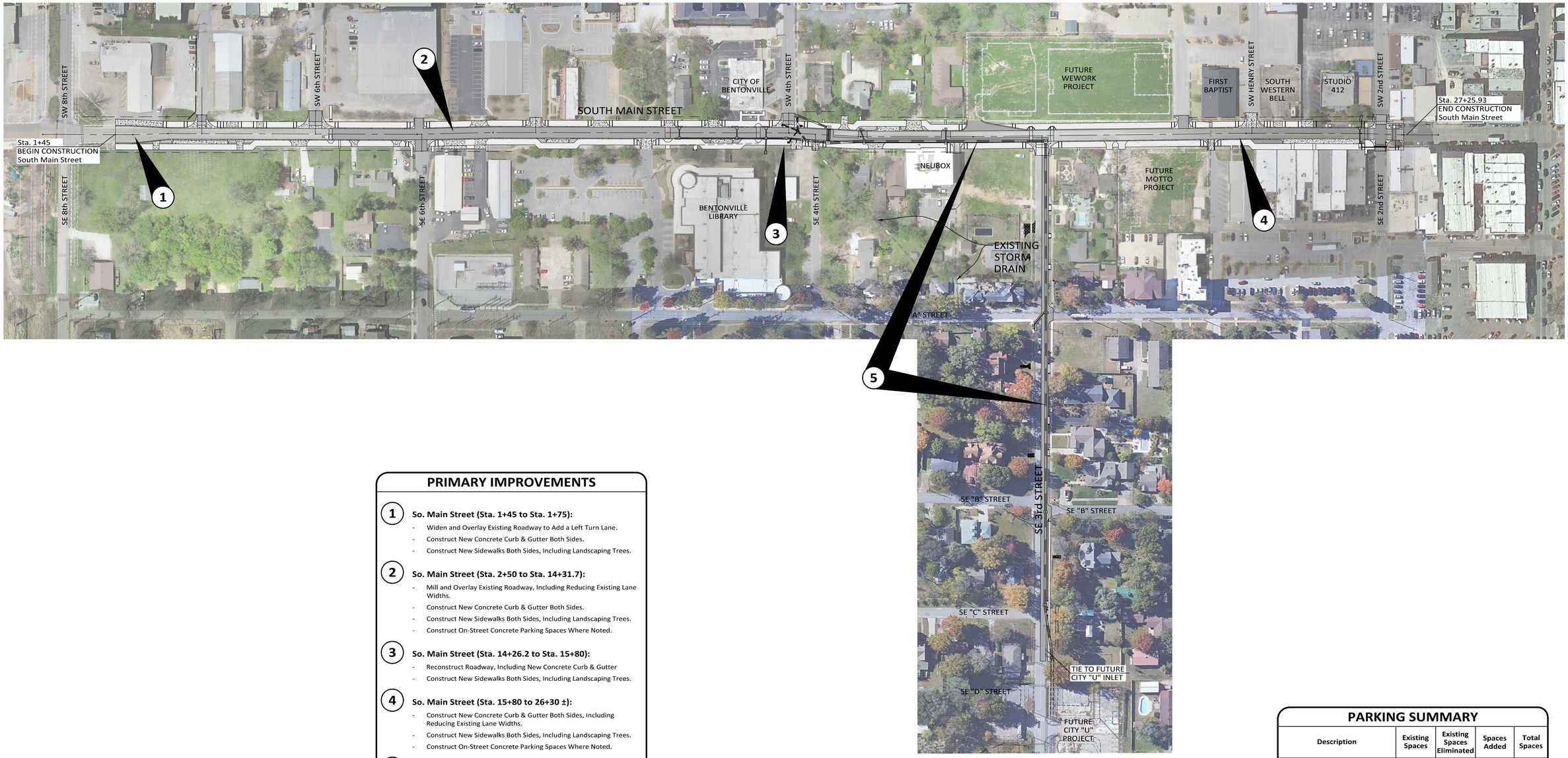
Scale in Feet



PRIMARY IMPROVEMENTS

1 So. Main Street (Sta. 1+45 to Sta. 1+75):
- Widen and Overlay Existing Roadway to Add a Left Turn Lane.
- Construct New Concrete Curb & Gutter Both Sides.
- Construct New Sidewalks Both Sides, Including Landscaping Trees.

2 So. Main Street (Sta. 2+50 to Sta. 14+31.7):
- Mill and Overlay Existing Roadway, Including Reducing Existing Lane Widths.
- Construct New Concrete Curb & Gutter Both Sides.
- Construct New Sidewalks Both Sides, Including Landscaping Trees.
- Construct On-Street Concrete Parking Spaces Where Noted.

3 So. Main Street (Sta. 14+26.2 to Sta. 15+80):
- Reconstruct Roadway, Including New Concrete Curb & Gutter
- Construct New Sidewalks Both Sides, Including Landscaping Trees.

4 So. Main Street (Sta. 15+80 to 26+30 ±):
- Construct New Concrete Curb & Gutter Both Sides, Including Reducing Existing Lane Widths.
- Construct New Sidewalks Both Sides, Including Landscaping Trees.
- Construct On-Street Concrete Parking Spaces Where Noted.

5 So. Main Street Drainage Improvements:
- Reroute Existing Storm Drain system

PARKING SUMMARY

Description	Existing Spaces	Existing Spaces Eliminated	Spaces Added	Total Spaces
Existing Conditions	60	-	-	60
Proposed Conditions	60	(42)	-	18

Revision	By	Date

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Approved By:	BSM
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Vertical Scale:	–
Horizontal Scale:	1"=20'
Plotting Scale:	1
City Project No.	PIIP20-0002

SOUTH MAIN STREET IMPROVEMENTS
(SW 8th Street to SW 2nd Street)
Bentonville, Benton County, Arkansas

GENERAL PROJECT LAYOUT

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Sheet No.: 3 of 44

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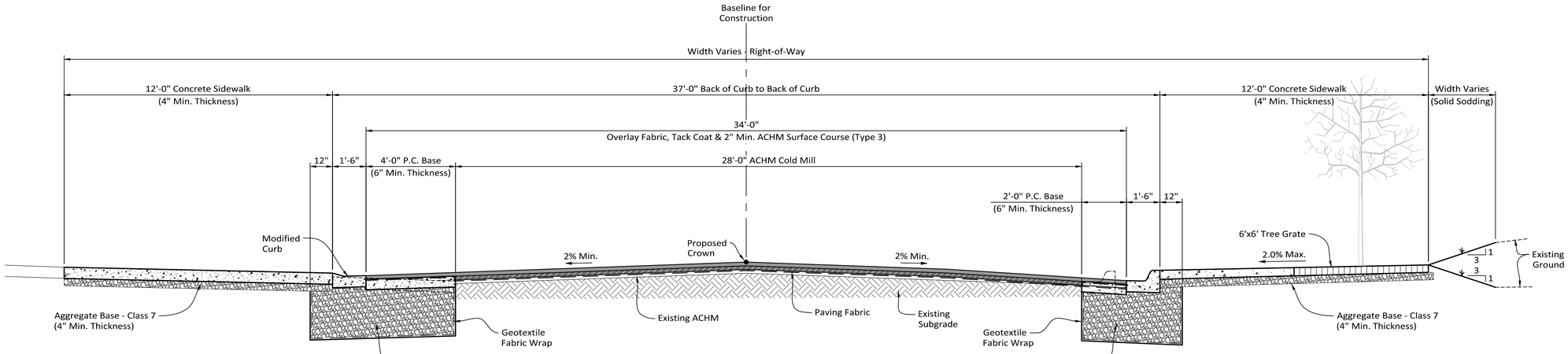


The Cost For Furnishing And Installing The 3" Cap Of Class 7 Base Course And The Geotextile Fabric Wrap Shall Be Considered Incidental To The Bid Item "Undercut Excavation & Backfill (Oversize Rock)".

If Approved By Engineer In The Field, Contractor May Backfill With Flowable Fill In Lieu Of Oversized Rock Within The Proposed Roadway Tapers. This Work Shall Be Paid In Accordance With Note 1 This Sheet

TYPICAL STREET SECTION

SOUTH MAIN STREET

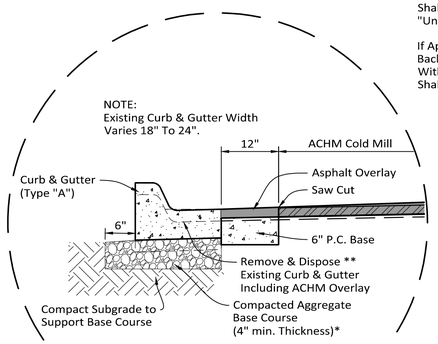
(Sta. 1+45 to Sta. 1+75)

Not to Scale

NOTES:

1. All Areas Disturbed By The Contractor During Construction Shall Be Graded Smooth and Sodded (w/ 2" Topsoil) Upon Completion Of Construction And Maintained Until Project Is Accepted By Owner.
2. Contractor Shall Salvage Store And Reuse Existing Topsoil Spoils Produced During Excavation Operations. No Separate Measurement And Payment Shall Be Made For Salvaging, Storing, And Placement Of Existing Topsoil, But Such Shall Be Considered Incidental To The Bid Price For Sodding.
3. Sidewalks Shall Be 6" Min. Thickness If In Driveways.

NOTE:
Tree Grates Are Adjacent To Back Of Curb Where Shown On Plan.

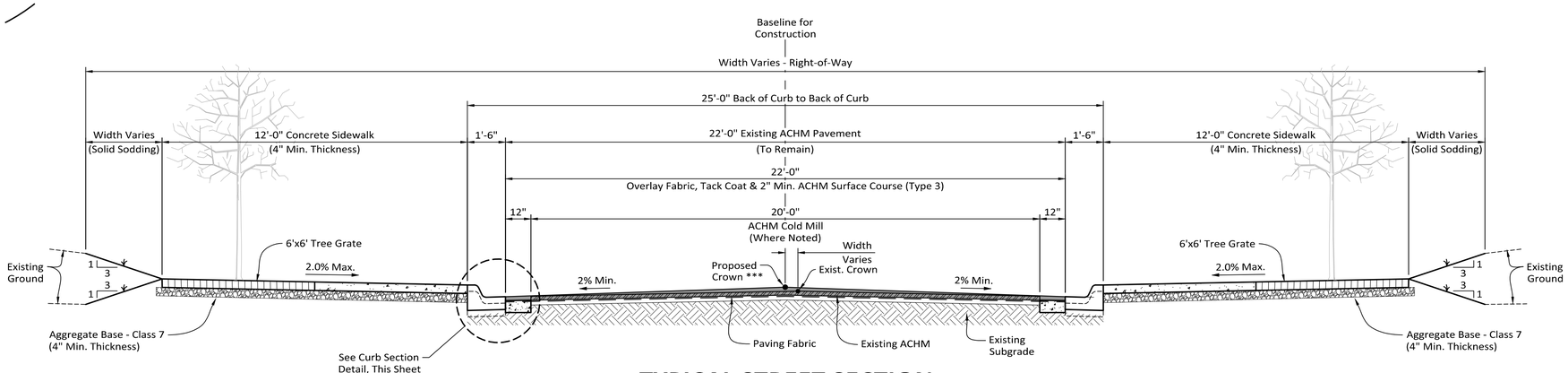


CURB SECTION

Not to Scale

* Aggregate Base Course Shall Be Considered Incidental With No Separate Payment Made. In Lieu Of Aggregate Base Course, Contractor May Increase Thickness Of New Curb Gutter. No Additional Payment Shall Be Made For Any Additional Gutter Thickness.

** Existing Curb & Gutter Alignment Is Not Typically Aligned With Proposed Curb & Gutter, But Will Vary Both Sides Of Street.



TYPICAL STREET SECTION

SOUTH MAIN STREET

WITHOUT ON-STREET PARKING

(Station Range Varies - See Plan)

Not to Scale

*** Proposed Crown May Vary Either Side Of Existing Centerline Or Crown.

Revision	By	Date

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STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No.10222
BRIAN S. MAURER
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Vertical Scale:	–
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Plotting Scale:	1
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SOUTH MAIN STREET IMPROVEMENTS

(SW 8th Street to SW 2nd Street)

Bentonville, Benton County, Arkansas

TYPICAL STREET SECTIONS

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Sheet No.: 4 of 44

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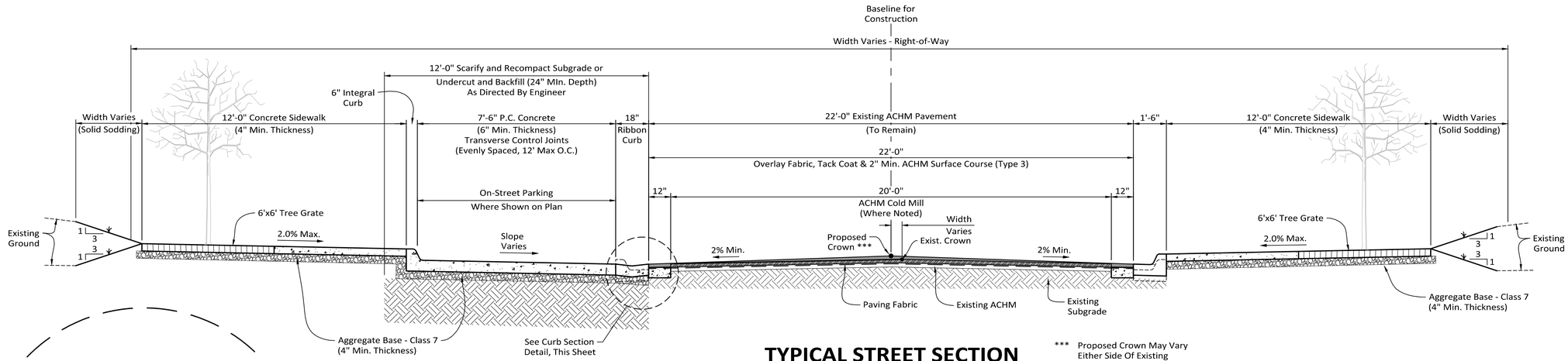
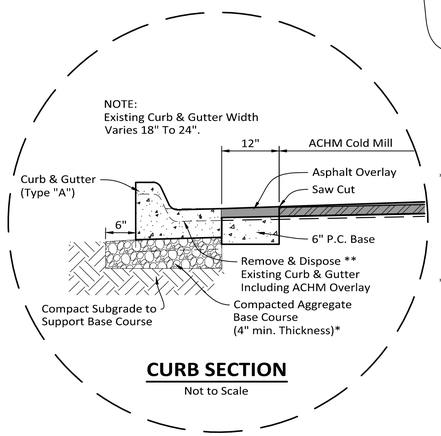


TYPICAL STREET SECTION

SOUTH MAIN STREET
w/ ON-STREET PARKING
(Station Range Varies - See Plan)
Not to Scale

*** Proposed Crown May Vary Either Side Of Existing Centerline Crown.

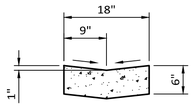


CURB SECTION

Not to Scale

* Aggregate Base Course Shall Be Considered Incidental With No Separate Payment Made. In Lieu Of Aggregate Base Course, Contractor May Increase Thickness Of New Curb Gutter. No Additional Payment Shall Be Made For Any Additional Gutter Or Island Slab Thickness.

** Existing Curb & Gutter Alignment Is Not Typically Aligned With Proposed Curb & Gutter, But Will Vary Both Sides Of Street.

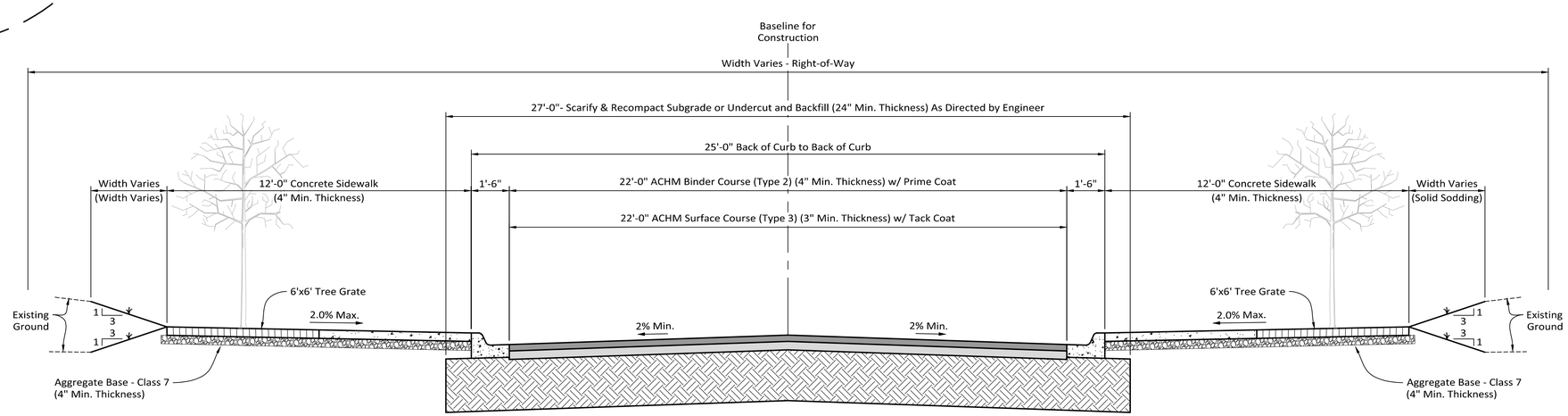


Transverse Control Joints @ 3' O.C. Max.

CONCRETE RIBBON CURB

Not to Scale

NOTE:
Tree Grates Are Adjacent To Back Of Curb Where Shown On Plan.



TYPICAL STREET SECTION

SOUTH MAIN STREET
(Sta. 14+26.2 to Sta. 15+80)
Not to Scale

Revision	By	Date

MORRISON SHIPLEY
2407 SE COTTONWOOD STREET • BENTONVILLE, AR 72712 • 479.273.2209 • MORRISONSHIPLEY.COM

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No.10222
BRIAN S. MAURER
8/15/2021
The Original Signed and Sealed Document is on file at the Office of Record

Drawn By:	JMN
Approved By:	BSM
Date:	8.15.2021
Project No.:	BTV–04A

Vertical Scale:	–
Horizontal Scale:	NTS
Plotting Scale:	1
City Project No.	PIIP20–0002

SOUTH MAIN STREET IMPROVEMENTS

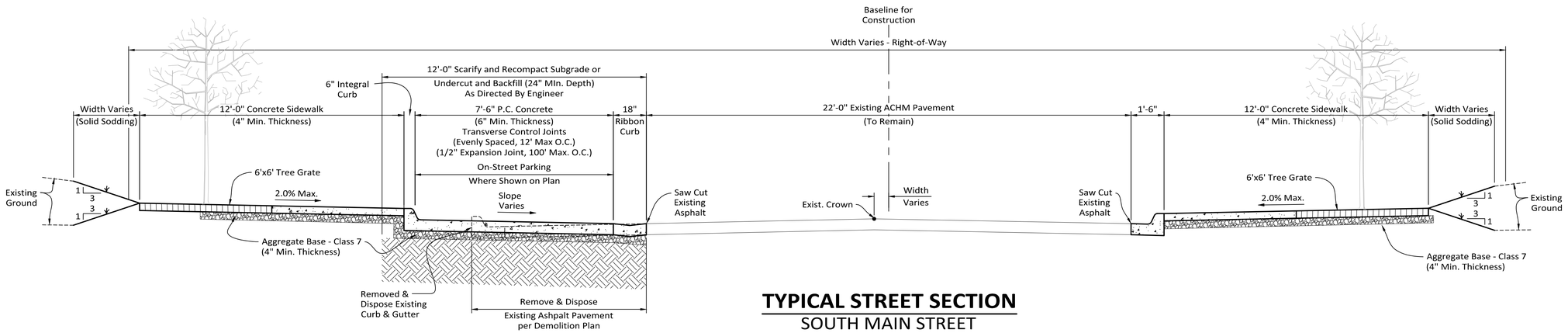
(SW 8th Street to SW 2nd Street)
Bentonville, Benton County, Arkansas

TYPICAL STREET SECTIONS

Issued for Bidding – 8.15.2021

Sheet No.: 5 of 44

Drawing Name: M:\SISKP\ROJ\BTV-04A\DRAFTING\BTV-04A BASE.dwg Last Modified: Aug 13, 2021 - 1:37pm Plotted on: Aug 13, 2021 - 1:41pm by dcarreira



TYPICAL STREET SECTION

SOUTH MAIN STREET
w/ ON-STREET PARKING
(Sta. 15+80 To Sta. 24+34)
Not to Scale

NOTE:
Tree Grates Are Adjacent To Back Of Curb Where Shown On Plan.

Revision	By	Date

MORRISON SHIPLEY
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STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No.10222
BRIAN S. MAURER
8/15/2021

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Approved By:	BSM
Date:	8.15.2021
Project No.:	BTV-04A

Vertical Scale:	–
Horizontal Scale:	NTS
Plotting Scale:	1
City Project No.	PIIP20-0002

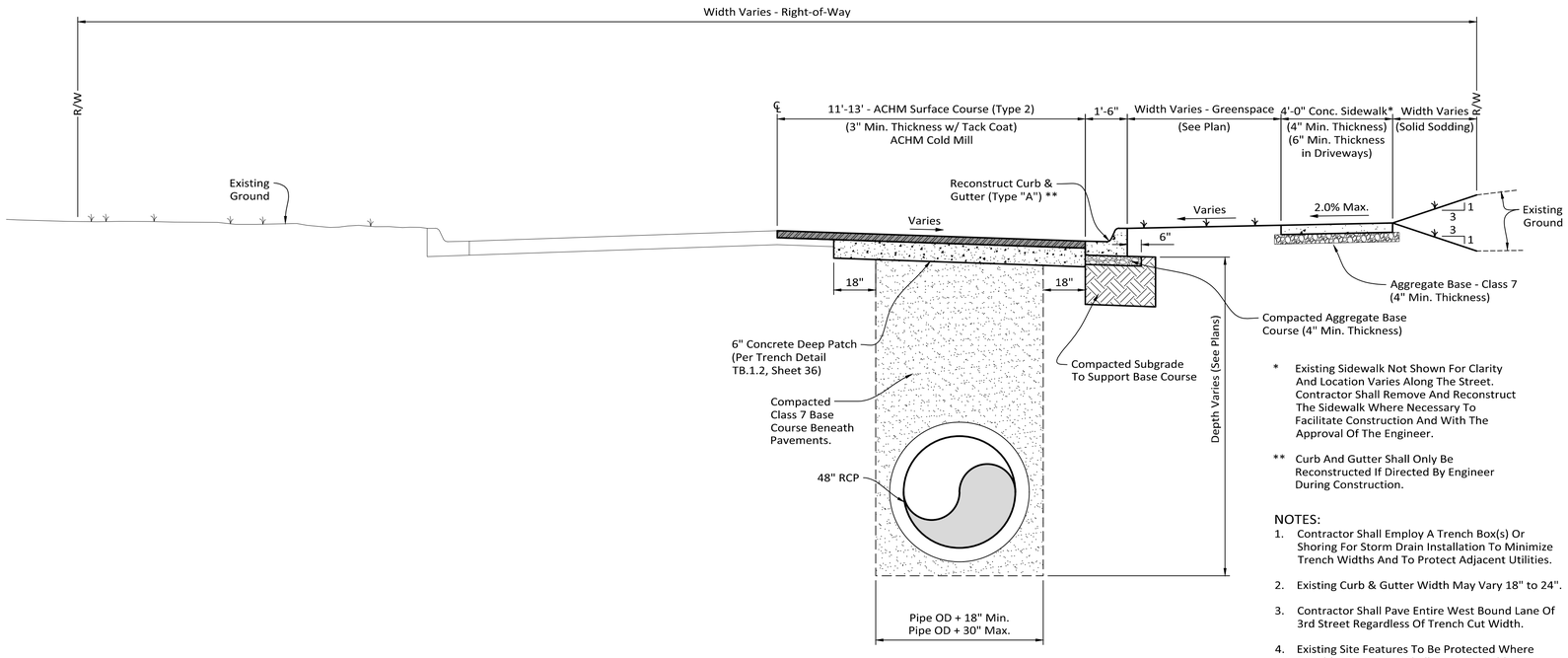
SOUTH MAIN STREET IMPROVEMENTS
(SW 8th Street to SW 2nd Street)
Bentonville, Benton County, Arkansas

TYPICAL STREET SECTIONS

Issued for Bidding – 8.15.2021

Sheet No.: 6 of 44

Drawing Name: M:\SDOX\PROJ\BTV-04A\DRAFTING\BTV-04A BASE.dwg Last Modified: Aug 13, 2021 - 1:37pm Plotted on: Aug 13, 2021 - 1:42pm by dcarreira



* Existing Sidewalk Not Shown For Clarity And Location Varies Along The Street. Contractor Shall Remove And Reconstruct The Sidewalk Where Necessary To Facilitate Construction And With The Approval Of The Engineer.

** Curb And Gutter Shall Only Be Reconstructed If Directed By Engineer During Construction.

NOTES:

1. Contractor Shall Employ A Trench Box(s) Or Shoring For Storm Drain Installation To Minimize Trench Widths And To Protect Adjacent Utilities.
2. Existing Curb & Gutter Width May Vary 18" to 24".
3. Contractor Shall Pave Entire West Bound Lane Of 3rd Street Regardless Of Trench Cut Width.
4. Existing Site Features To Be Protected Where Possible. Contractor Shall Be Responsible For Carelessness During Construction Activities.

TYPICAL STREET SECTION

SE 3rd STREET

(FACING UP-STREAM)

Not to Scale

Revision	By	Date

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STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No.10222
BRIAN S. MAURER
8/15/2021

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Drawn By:	JMN
Approved By:	BSM
Date:	8.15.2021
Project No.:	BTV–04A

Vertical Scale:	–
Horizontal Scale:	NTS
Plotting Scale:	1
City Project No.	PIIP20–0002

SOUTH MAIN STREET IMPROVEMENTS

(SW 8th Street to SW 2nd Street)

Bentonville, Benton County, Arkansas

TYPICAL STREET SECTIONS

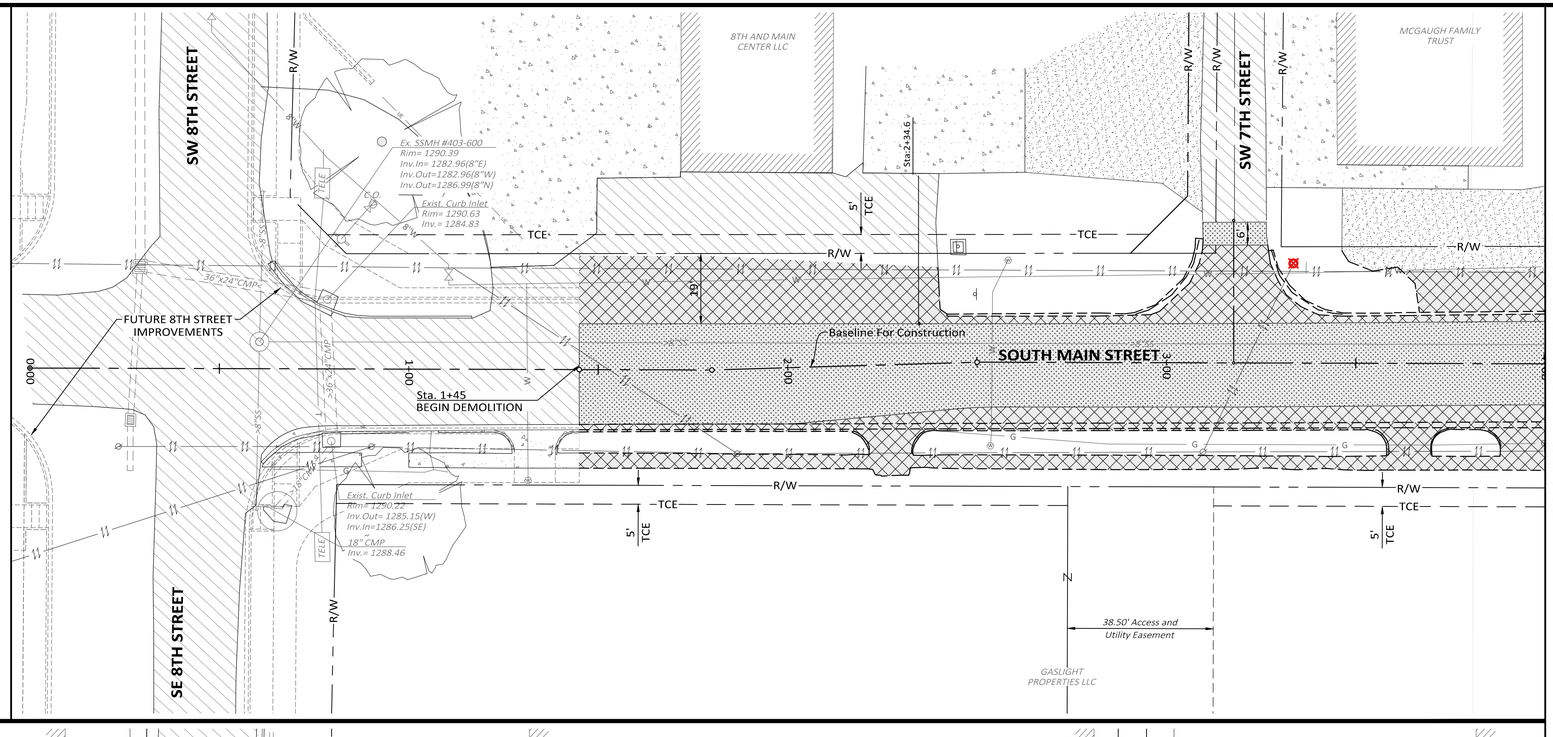
Issued for Bidding – 8.15.2021

Sheet No.: 7 of 44

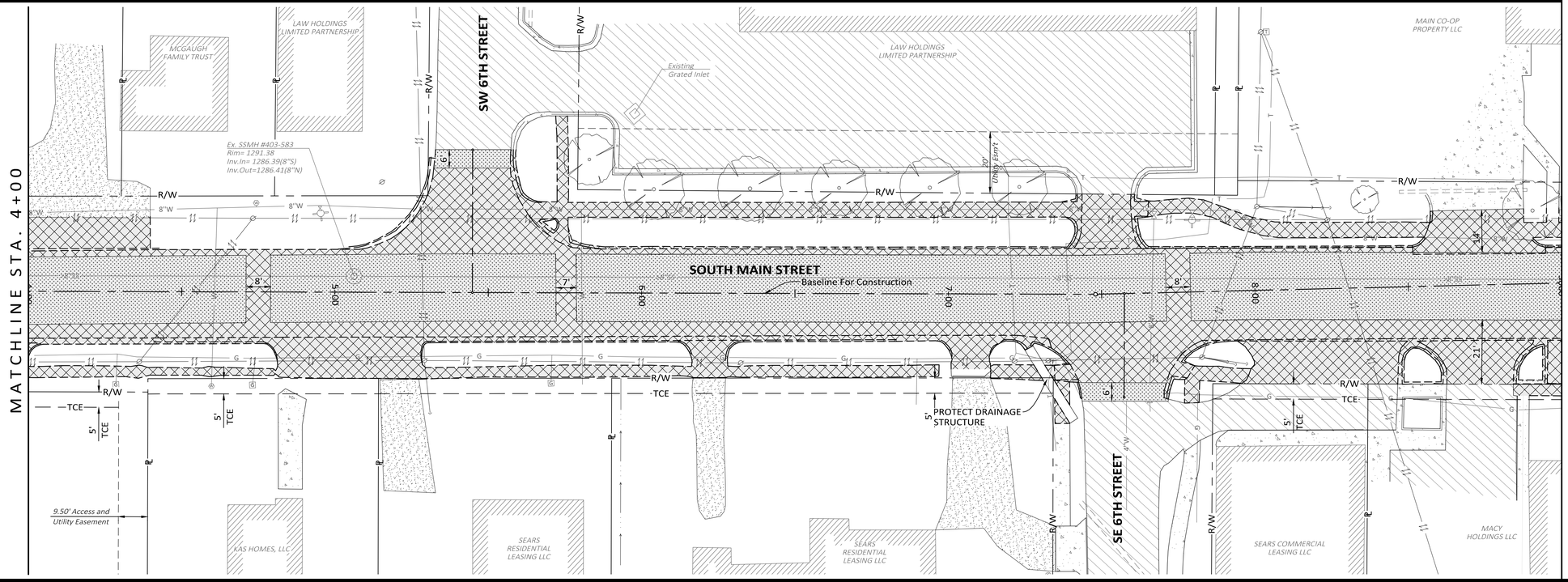
Drawing Name: M:\SDS\PROJ\BTV-04A\LIDRAFTING\BTV-04A PLAN BASE .dwg Last Modified: Aug 13, 2021 - 1:37pm Plotted on: Aug 13, 2021 - 1:42pm by dcarreira

DEMOLITION NOTES

1. The Contractor Is Responsible For The Demolition, Removal, And Disposing In A Location Approved By All Governing Authorities, Of All Buildings, Footings, Structures, Pads, Walls, Flumes, Foundations, Parking, Drives, Sidewalks, Drainage, Structures, Utilities, Etc., Such That The Improvements Shown On The Remaining Plans Can Be Constructed. All Facilities To Be Removed Shall Be Undercut To Suitable Material And Brought To Grade With Suitable Compacted Fill Material Per The Project Details.
2. The Contractor Is Responsible For Removing All Debris From The Site And Disposing Of The Debris In A Lawful Manner. The Contractor Is Responsible For Obtaining All Permits Required For Demolition And Disposal.
3. The Contractor Shall Maintain All Utility Services To The Surrounding Property Owners At All Times. Utility Services Shall Not Be Interrupted Without Coordination Through The Respective Utility Companies And Affected Property Owners.
4. Should Removal And/or Relocation Activities Damage Fencing, Lighting, Utilities, Storm Inlet Structures, ETC, Then The Contractor Shall Provide New Materials/ Structures. Except For Materials Designed To Be Relocated On This Plan, All Other Construction Materials Shall Be New.
5. Contractor Shall Limit Saw-Cut & Pavement Removal To Only Those Areas Where It Is Required As Shown On These Construction Plans. Saw Cutting Shall Be Clean, Straight Lines. If Any Damage Is Incurred On Any Of The Surrounding Pavement, The Contractor Shall Be Responsible For Its Removal And Repair.
6. Concrete Demolition Shall Be Taken by Saw-Cut or At Closest Joint Outside Of Work Limits as Directed by Engineer.
7. Refer to the Horizontal Control and Dimension Plan, Sheets 11 thru 13, For Extents of Demolition and Sawcut Locations.
8. Damage to Any Existing Conditions That Are To Remain Shall Be Replaced At The Contractor's Expense.
9. All Trees to Remain Unless Indicated Otherwise.
10. All Power Poles and Light Poles to Remain Unless Noted Otherwise.
11. All Water Valve Boxes and Meters to Remain Unless Noted Otherwise.
12. Remove And Retain All Traffic Signs Within Work Limits.
13. Telephone Pedestals to Be Relocated as Needed by Franchise Utilities.



MATCHLINE STA. 4+00



MATCHLINE STA. 9+00

MATCHLINE STA. 4+00

CALL BEFORE YOU DIG 1-800-482-8998 ARKANSAS ONE CALL SYSTEM

20 0 20
Scale in Feet

DEMOLITION LEGEND

- Existing Pavement To Be Removed
- Cold Mill Existing Asphalt
- Remove & Dispose Existing Tree
- Proposed Baseline for Construction
- Existing Power/Light Pole To Be Relocated/Removed (Not In Contract - See City of Bentonville Electrical Plans)
- Existing Asphalt Pavement
- Existing Concrete Pavement
- Existing Gravel
- Existing Property Line
- Existing Centerline Alignment
- Existing Easement
- R/W — Existing Right-of-Way
- Existing Concrete Sidewalk
- Existing Handicap Ramp
- =>18" RCP= Existing Storm Drain W/Size&Type
- Existing Storm Drain Inlet/ Junction Box
- Existing Grate Inlet
- Existing Drainage Flowline
- Existing Overhead Electric
- Existing Light Pole
- Existing Power Pole
- Existing Tree (PROTECT)

Revision	By	Date

MORRISON SHIPLEY

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STATE OF ARKANSAS LICENSED PROFESSIONAL ENGINEER No.10222 BRIAN S. MAURER 8/15/2021

The Original Signed and Sealed Document is on file at the Office of Record

Drawn By:	JMN
Approved By:	BSM
Date:	8.15.2021
Project No.:	BTV-04A

Vertical Scale:	–
Horizontal Scale:	1"=20'
Plotting Scale:	1
City Project No.	PIIP20-0002

SOUTH MAIN STREET IMPROVEMENTS

(SW 8th Street to SW 2nd Street)

Bentonville, Benton County, Arkansas

DEMOLITION PLAN
SOUTH MAIN STREET
(Sta. 1+45 to Sta. 9+00)

Issued for Bidding – 8.15.2021

Sheet No.: 8 of 44

Drawing Name: M:\SISKP\ROJ\BTV-04A\04ADMIT\NGVBTV-04AA BASE.dwg Last Modified: Aug 13, 2021 - 1:37pm Plotted on: Aug 13, 2021 - 1:42pm by dcarreira

MATCHLINE STA. 9+00

MAIN CO-OP PROPERTY LLC

BENTONVILLE LIBRARY FOUNDATION

CITY OF BENTONVILLE

WESTPARK PROPERTIES LLC

CITY OF BENTONVILLE

R/W

8'W

8"W

8'

10'-00

11'-00

Baseline for Construction

SOUTH MAIN STREET

12'-00

13'-00

15'

13'-00

TCE

5'

TCE

TREE PROTECTION
SEE DETAIL SHEET 41

Ex. SSMH #403-582
Rim= 1290.99
Inv.In= 1285.00(4"W)
Inv.In= 1284.82(8"N)
Inv.Out=1284.64(8"E)

Ex. SSMH #403-599
Rim= 1292.91
Inv.In= 1285.43(8"S)
Inv.Out=1285.38(8"N)

Ex. SSMH #403-598
Rim= 1291.64
Inv.In= 1284.72(8"S)
Inv.In= 1284.56(12"W)
Inv.Out=1284.54(12"E)

10'SSMH(S)

12"SS

TREE PROTECTION
SEE DETAIL SHEET 41

Exist. Curb Inlet
Rim= 1291.28
Inv.= 1288.94
(TO REMAIN)

Exist. Curb Inlet
Rim= 1291.16
Inv.= 1288.60

Ex. SSMH #403-577
Rim= 1291.35
Inv.In= 1284.51(14"N)
Inv.Out=1284.51(14"E)

Ex. SSMH #403-579
Rim= 1290.77
Inv.In= 12xx.xx(4"E)
Inv.In= 12xx.xx(8"W)
Inv.Out=12xx.xx(14"S)

23'x14'RCPE

>30"x20"RCPE

Exist. Junction Box
N.Rim= 1292.53
Inv.= xxx.xx

Exist. Junction Box
Rim= 1292.52
Inv.= xxx.xx

MACY HOLDINGS LLC

BENTONVILLE LIBRARY FOUNDATION

BENTONVILLE LIBRARY FOUNDATION

MATCHLINE STA. 14+00

CITY OF BENTONVILLE

BARNES FAMILY TRUST

AMY & BENJAMIN D. HALL

EMMA PARTNERS LLC.

SCOTT VENTURES LLC

CENTER CITY LLC

SW 4TH STREET

Exist. Grated Inlet
(Remove & Dispose)
Top= 1290.00
Inv.= 1286.55

Exist. Grated Inlet
(Remove & Dispose)
Top= 1290.84
Inv.= 1287.00

Ex. SSMH #403-594
Rim= Covered
Inv.= ±1285.48 (8"N,S)

D/E

10'

R/W

8'W

8"W

6'-4'-6' Typ.

6'-4'-6' Typ.

15'-00

16'-00

17'-00

18'-00

SOUTH MAIN STREET

Baseline for Construction

8"SS

4"W

TCE

5'

TCE

24"CMP

Exist. Curb Inlet
(Remove & Dispose)
Rim= 1291.07
Inv.= 1288.20

Exist. Junction Box
(Remove & Dispose)
Rim= 1290.71
Inv.= 1288.00

24"CMP
w/ Headwall
Inv.=±1288.14

30"x20"RCPE
Inv.=±1288.28

Exist. Metal
(Remove & Dispose)
Curb Inlet
Rim= 1290.46
Inv.In= 1287.02(S)
Inv.Out= 1286.76(NW)

Exist. SDMH
(Remove & Dispose)
Junction Box
Rim= 1290.50
Inv.= 1286.02(NW)
Inv.= 1285.35(SE),
Inv.=1283.95(SW,NE)

STA. 14+59 TO 15+50
COMPLETE DEMOLITION FOR
TOTAL RECONSTRUCTION

SE 4TH STREET

BENTONVILLE LIBRARY FOUNDATION

CITY OF BENTONVILLE

MSB HOLDINGS LLC & IMAGE MATTERS INC

IMAGE MATTERS INC

NEUEBOX LLC

Ex. SSMH #403-594
Rim= 1291.71
Inv.In= 1286.06(8"E)
Inv.In= 1286.02(8"N)
Inv.Out=1286.00(8"S)

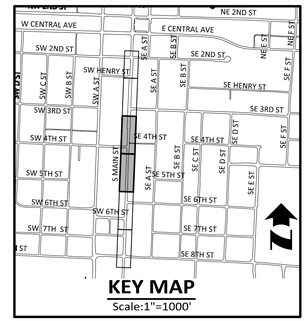
Ex. SSMH #403-6348
N.Rim= 1291.22
Inv.In= 1286.67(4"SE)
Inv.In= 1286.49(4"NE)
Inv.Out=1286.43(8"W)

301 SOUTH MAIN LLC

MATCHLINE STA. 19+00

CALL BEFORE YOU DIG
1-800-482-8998
ARKANSAS ONE CALL SYSTEM

20 0 20
Scale in Feet



KEY MAP
Scale:1"=1000'

Revision	By	Date

MORRISON SHIPLEY

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STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No.10222
BRIAN S. MAURER
8/15/2021

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Approved By:	BSM
Date:	8.15.2021
Project No.:	BTV-04A

Vertical Scale:	–
Horizontal Scale:	1"=20'
Plotting Scale:	1
City Project No.	PIIP20-0002

SOUTH MAIN STREET IMPROVEMENTS

(SW 8th Street to SW 2nd Street)

Bentonville, Benton County, Arkansas

DEMOLITION PLAN
SOUTH MAIN STREET
(Sta. 9+00 to Sta. 19+00)

Issued for Bidding – 8.15.2021

Sheet No.: 9 of 44

Drawing Name: M:\SDSKPROJ\BTV-04A\DRAFTING\BTV-04A BASE.dwg Last Modified: Aug 13, 2021 - 1:37pm Plotted on: Aug 13, 2021 - 1:42pm by dzarrera

MATCHLINE STA. 19+00

FUTURE THE LEDGER PROJECT IMPROVEMENTS

CENTER CITY LLC

FUTURE THE LEDGER PROJECT IMPROVEMENTS

FIRST BAPTIST CHURCH OF BENTONVILLE

Ex. SSMH #403-6345
Rim= 1294.16
Inv.In= 1287.14(8"N)
Inv.Out=1287.12(8"S)

Ex. SSMH #403-6349
Rim= 1294.76
Inv.In= 1287.36(8"N)
Inv.Out=1287.34(8"S)

Ex. SSMH #403-6347
Rim= 1295.20
Inv.In= 1287.85(6"W)
Inv.In= 1287.62(8"N)
Inv.Out=1287.59(8"S)

Junction Box
Rim= 1295.02
Inv.= 1282.93(E)
Inv.= 1282.89(S)

Junction Box
Rim= 1293.60
Inv.= 1287.90
(TO REMAIN)

18"RCP

TCE

R/W

8"SS

7'

20+00

21+00

22+00

23+00

24+00

11'

11'

SOUTH MAIN STREET

Baseline for Construction

SE 3RD STREET

G

FO

301 SOUTH MAIN LLC

MULDOON DECLARATION OF TRUST

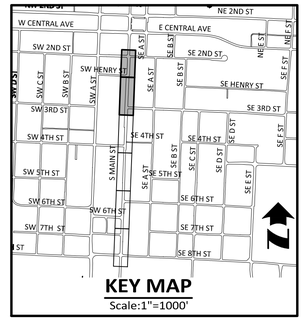
FUTURE MOTTO HOTEL PROJECT IMPROVEMENTS

BENTON COUNTY

MATCHLINE STA. 24+00

CALL BEFORE YOU DIG 1-800-482-8998 ARKANSAS ONE CALL SYSTEM

20 0 20
Scale in Feet



KEY MAP
Scale:1"=1000'

SOUTHWESTERN BELL TELEPHONE COMPANY

FIRST BAPTIST CHURCH OF BENTONVILLE

SW HENRY STREET

SW 2ND STREET

INVEST NORTH AMERICA INC

BAKER TRUST

5' TCE

6'W

SOUTH MAIN STREET

Baseline for Construction

Ex. SSMH #403-561
Rim= 1294.36
Inv.= 1289.06

Sta. 27+19.97
END DEMOLITION

Exist. SD Manhole
Rim= 1293.90
Inv.= xxx.xx

Exist. Grated Inlet
Top= 1293.41
Inv.= 1285.36
(TO REMAIN)

Exist. Grated Drain
Top= 1293.33
Inv.= 1291.89
(TO REMAIN)

Exist. Grated Drain
Top= 1293.55
Inv.= 1293.25
(TO REMAIN)

SE 2ND STREET

ALTA VISTA LLC

ALTA VISTA LLC

ALMADHOUN PROPERTIES LLC

DBR PROPERTIES LLC

CBTR OUTDOORS LLC

GRACE & GREY DESIGNS LLC

ACCOY FAMILY REVOCABLE TRUST

CLARK & SPENCE

Revision	By	Date

MORRISON SHIPLEY

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STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No.10222
BRIAN S. MAUPIN
8/15/2021

The Original Signed and Sealed Document is on file at the Office of Record

Drawn By:	JMN
Approved By:	BSM
Date:	8.15.2021
Project No.:	BTV-04A

Vertical Scale:	–
Horizontal Scale:	1"=20'
Plotting Scale:	1
City Project No.	PIIP20-0002

SOUTH MAIN STREET IMPROVEMENTS

(SW 8th Street to SW 2nd Street)

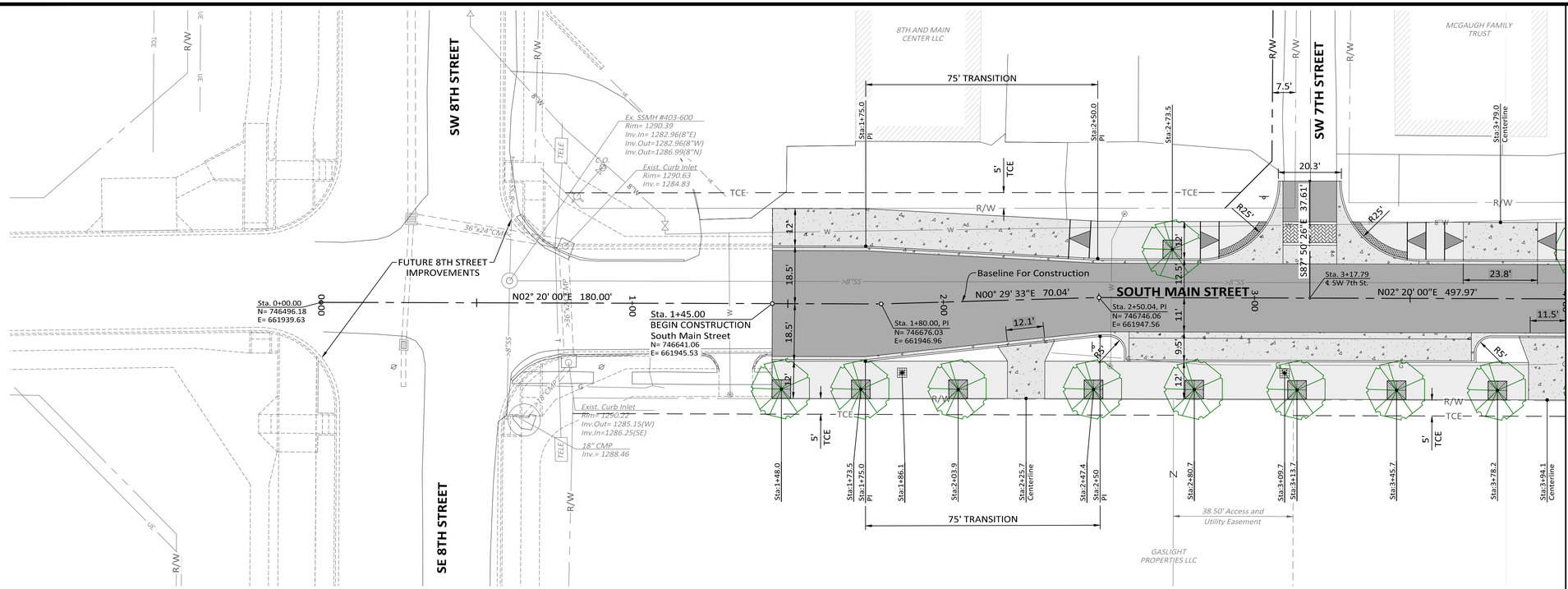
Bentonville, Benton County, Arkansas

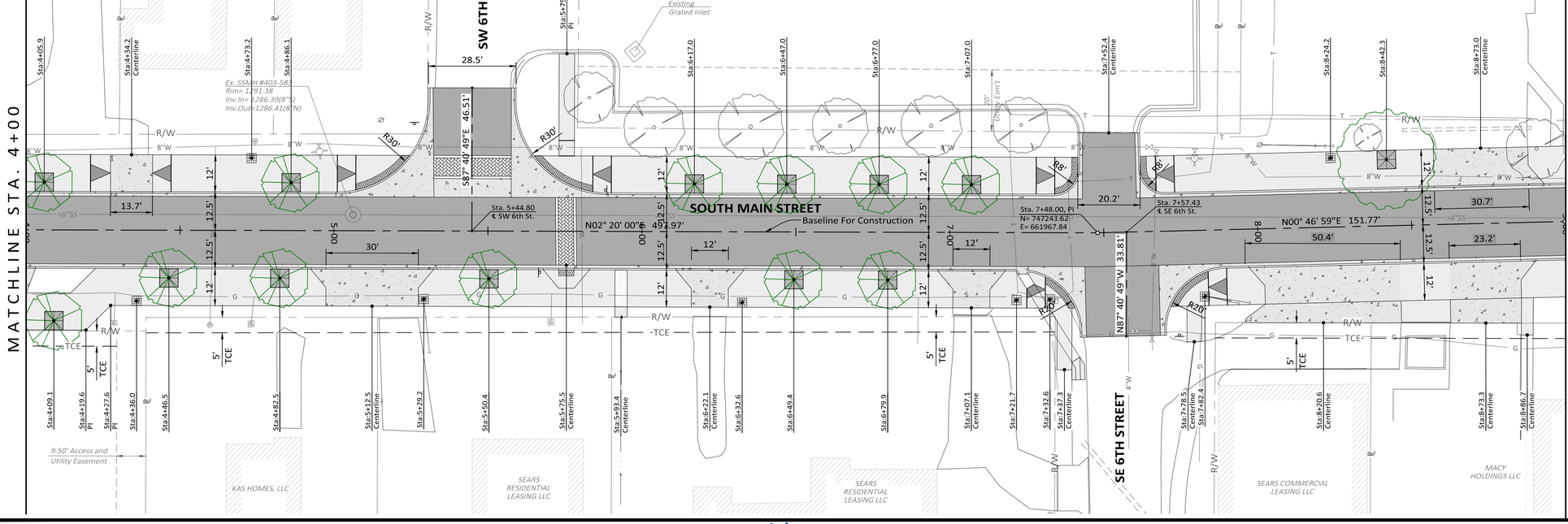
DEMOLITION PLAN
SOUTH MAIN STREET
(Sta. 19+00 to Sta. 27+19.97)

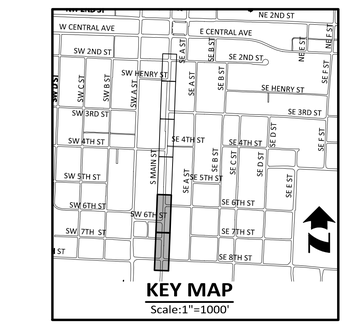
Issued for Bidding – 8.15.2021

Sheet No.: 10 of 44

Drawing Name: M:\SOS\PROJ\BTV-04A\10\RAT\TING\BTV-04A BASE.dwg Last Modified: Aug 13, 2021 - 1:37pm Plotted on: Aug 13, 2021 - 1:42pm by dcarreira







CALL BEFORE YOU DIG 1-800-482-8998 ARKANSAS ONE CALL SYSTEM

20 0 20
Scale in Feet

NOTES

1. Radius is 5' Unless Otherwise Noted.
2. Dimensions to Back of Curb Unless Otherwise Noted.
3. All Trees Shall Be 5' Minimum From All Public Utilities.
4. Edges Of The 6'x6' Tree Grates Shall Align with The Transverse Sidewalk Joints.

Revision	By	Date

MORRISON SHIPLEY

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STATE OF ARKANSAS LICENSED PROFESSIONAL ENGINEER No.10222 BRIAN S. MAURER 8/15/2021

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Approved By:	BSM
Date:	8.15.2021
Project No.:	BTV-04A

Vertical Scale:	–
Horizontal Scale:	1"=20'
Plotting Scale:	1
City Project No.	PIIP20-0002

SOUTH MAIN STREET IMPROVEMENTS

(SW 8th Street to SW 2nd Street)

Bentonville, Benton County, Arkansas

HORIZONTAL CONTROL AND DIMENSION PLAN
SOUTH MAIN STREET
(Sta. 1+45 to Sta. 9+00)

Issued for Bidding – 8.15.2021

Sheet No.: 11 of 44

Drawing Name: M:\SSKPROJ\BTV-04A\04ATTING\BTV-04A BASE.dwg Last Modified: Aug 13, 2021 - 13:37pm Plotted on: Aug 13, 2021 - 13:42pm by dcarreira

MATCHLINE STA. 9+00

MAIN CO-OP PROPERTY LLC

BENTONVILLE LIBRARY FOUNDATION

CITY OF BENTONVILLE

WESTPARK PROPERTIES LLC

CITY OF BENTONVILLE

Sta:9+07.9

Sta:9+44.5

25.5'

R/W

R12'

S87° 42' 55"E 30.19'

Sta. 8+99.77, PI
N= 747395.37
E= 661969.91

8"W

8"SS

Sta. 9+85.07
℄ Driveway

10+00

11+00

12+00

13+00

Baseline for Construction

SOUTH MAIN STREET
N02° 15' 39"E 591.69'

SYSTEM "A-7"

SYSTEM "A-6"

12'

12.5'

11'

9.5'

R5'

20.8'

TCE

5'

Ex. SSMH #403-582
Rim= 1290.99
Inv.In= 1285.00(4"W)
Inv.In= 1284.82(8"N)
Inv.Out=1284.64(8"E)

Ex. SSMH #403-599
Rim= 1292.91
Inv.In= 1285.42(8"S)
Inv.Out=1285.22(8"N)

Ex. SSMH #403-598
Rim= 1291.64
Inv.In= 1284.72(8"S)
Inv.In= 1284.52(8"W)
Inv.Out=1284.32(8"E)

Ex. SSMH #403-577
Rim= 1291.35
Inv.In= 1284.15(4"N)
Inv.Out=1284.00(14"E)

Ex. SSMH #403-579
Rim= 1292.77
Inv.In= 12xx.xx(4"E)
Inv.In= 12xx.xx(8"W)
Inv.Out=12xx.xx(14"S)

14"SS<

>18"RCP

23"x14" RCPE<

Sta:9+66.6

Sta:9+83.3 PI

Sta:9+91.3 PI

Sta:10+13.8

Sta:10+43.8

Sta:10+66.3 PI

Sta:10+74.2 PI

Sta:10+82.8

Sta:11+48.8

Sta:12+06.2 Centerline

Sta:12+41.3

Sta:12+49.0 Centerline

Sta:12+70.0

Sta:13+04.2 Centerline

Sta:13+10.7 PI

Sta:13+18.7 PI

Sta:13+41.7

Sta:13+77.7

Sta:13+94.7 PI

MACY HOLDINGS LLC

BENTONVILLE LIBRARY FOUNDATION

BENTONVILLE LIBRARY FOUNDATION

MATCHLINE STA. 14+00

CITY OF BENTONVILLE

BARNES FAMILY TRUST

AMY & BENJAMIN D. HALL

EMMA PARTNERS LLC.

SCOTT VENTURES LLC

CENTER

Sta:18+94.26
54.55' Lt.
Center point

SW 4TH STREET

Sta:14+30.0 Centerline

Sta:14+40.4 Centerline

27'

16' W

S87° 31' 58"E 39.50'

R25'

D/E

10'

Sta:15+58.9 Centerline

Sta:15+84.2

Sta:15+92.9

Sta:16+01.2 Centerline

Sta:16+18.6

Sta:16+25.4 PI

Sta:16+31.9 Centerline

Sta:16+41.9

Sta:16+76.4

Sta:17+11.0

Sta:17+23.8 Centerline

Sta:17+41.1 Centerline

Sta:17+66.0 PI

Sta:17+74.0 PI

Sta:17+86.4

Sta:18+04.1 Centerline

Sta:18+16.4

Sta:18+39.5 Centerline

R29.7'

Sta. 14+90.44
℄ SW 4th St.

N02° 15' 39"E 591.69'

Sta. 14+91.46, PI
N= 747986.60
E= 661993.25

15+00

22.9'

Sta. 15+44.20
℄ SE 4th Street

N05° 09' 57"E 143.42'

Sta. 16+34.88, PI
N= 748129.44
E= 662006.17

SOUTH MAIN STREET

11'

16+00

17+00

18+00

12'

30'

29'

Baseline for Construction

N02° 09' 26"E 224.64'

Sta: 18+59.52, PI
N= 748353.92
E= 662014.62

R40'

S87° 48' 06"W 31.76'

14.5'

15'

Ex. SSMH #403-594
Rim= Covered
Inv.= ±1285.48 (8"N,S)

Ex. SSMH #403-594
Rim= 1291.71
Inv.In= 1286.06(8"E)
Inv.In= 1286.03(8"N)
Inv.Out=1286.00(8"S)

Ex. SSMH #403-594
N.Rim= 1291.
Inv.In= 1286
Inv.In= 1286
Inv.Out=1286.43(8"W)

Sta:14+02.7

Sta:14+12.0

Sta:14+30.0 Centerline

Sta:14+61.0

Sta:15+08.3 Centerline

98' Reconstruction Section

SE 4TH STREET

Sta:15+89.3

Sta:16+25.3

Sta:16+35.4 Centerline

Sta:16+64.5 Centerline

Sta:17+02.7

Sta:17+32.7

Sta:17+45.0

Sta:17+54.4 PI

Sta:18+05.0 PI

Sta:18+27.3 Centerline

Sta:18+44.4

Sta:18+92.4

BENTONVILLE LIBRARY FOUNDATION

CITY OF BENTONVILLE

BENTONVILLE LIBRARY FOUNDATION

MSB HOLDINGS LLC & IMAGE MATTERS INC

IMAGE MATTERS INC

NEUEBOX LLC

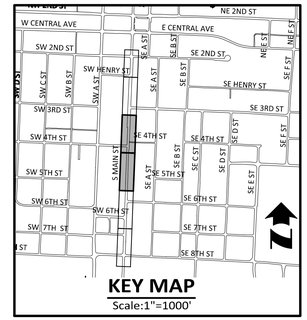
301 SOUTH MAIN LLC

MATCHLINE STA. 14+00

MATCHLINE STA. 19+00

CALL BEFORE YOU DIG
1-800-482-8998
ARKANSAS ONE CALL SYSTEM

20 0 20
Scale in Feet



KEY MAP
Scale:1"=1000'

Revision	By	Date

MORRISON SHIPLEY

2407 SE COTTONWOOD STREET • BENTONVILLE, AR 72712 • 479.273.2209 • MORRISONSHIPLEY.COM

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No.10222
BRIAN S. MAURER
8/15/2021

The Original Signed and Sealed Document is on file at the Office of Record

Drawn By:	JMN
Approved By:	BSM
Date:	8.15.2021
Project No.:	BTV-04A

Vertical Scale:	–
Horizontal Scale:	1"=20'
Plotting Scale:	1
City Project No.	PIIP20-0002

SOUTH MAIN STREET IMPROVEMENTS

(SW 8th Street to SW 2nd Street)

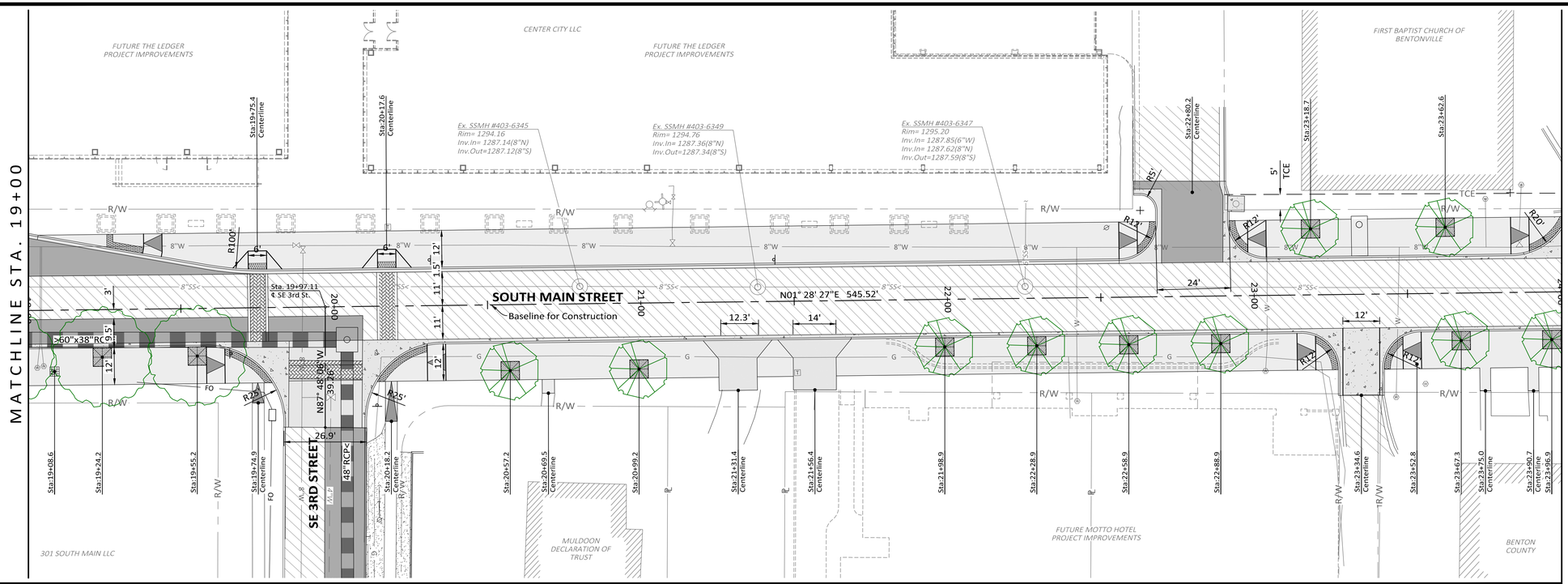
Bentonville, Benton County, Arkansas

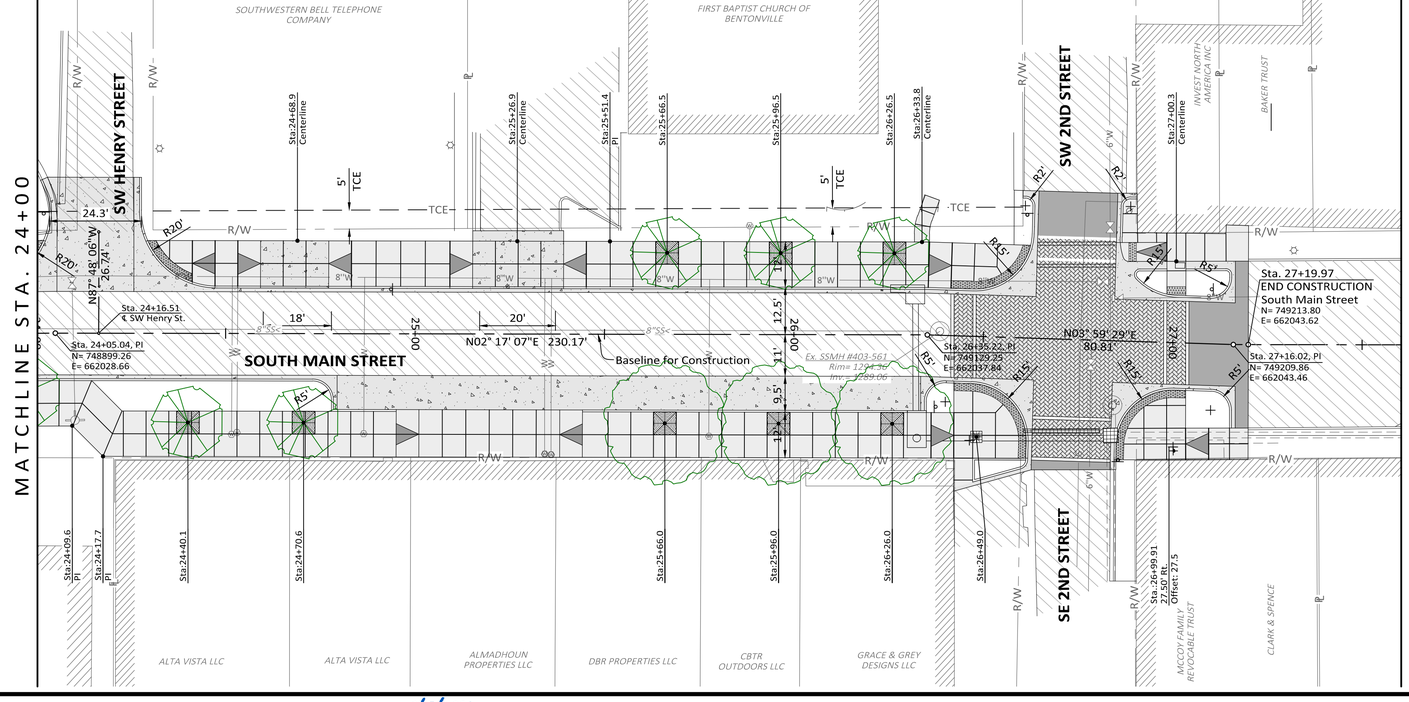
HORIZONTAL CONTROL AND DIMENSION PLAN
SOUTH MAIN STREET
(Sta. 9+00 to Sta. 19+00)

Issued for Bidding – 8.15.2021

Sheet No.: 12 of 44

Drawing Name: M:\SOS\PROJ\BTV-04A\DWG\PLANS\BTV-04A BASE.dwg Last Modified: Aug 13, 2021 - 1:37pm Plotted on: Aug 13, 2021 - 1:43pm by dzarneria





Revision	By	Date

MORRISON SHIPLEY

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STATE OF ARKANSAS — LICENSED PROFESSIONAL ENGINEER — No.10222 — BRIAN S. MAURER — 8/15/2021

The Original Signed and Sealed Document is on file at the Office of Record

Drawn By:	JMN
Approved By:	BSM
Date:	8.15.2021
Project No.:	BTV-04A

Vertical Scale:	–
Horizontal Scale:	1"=20'
Plotting Scale:	1
City Project No.	PIIP20-0002

SOUTH MAIN STREET IMPROVEMENTS

(SW 8th Street to SW 2nd Street)

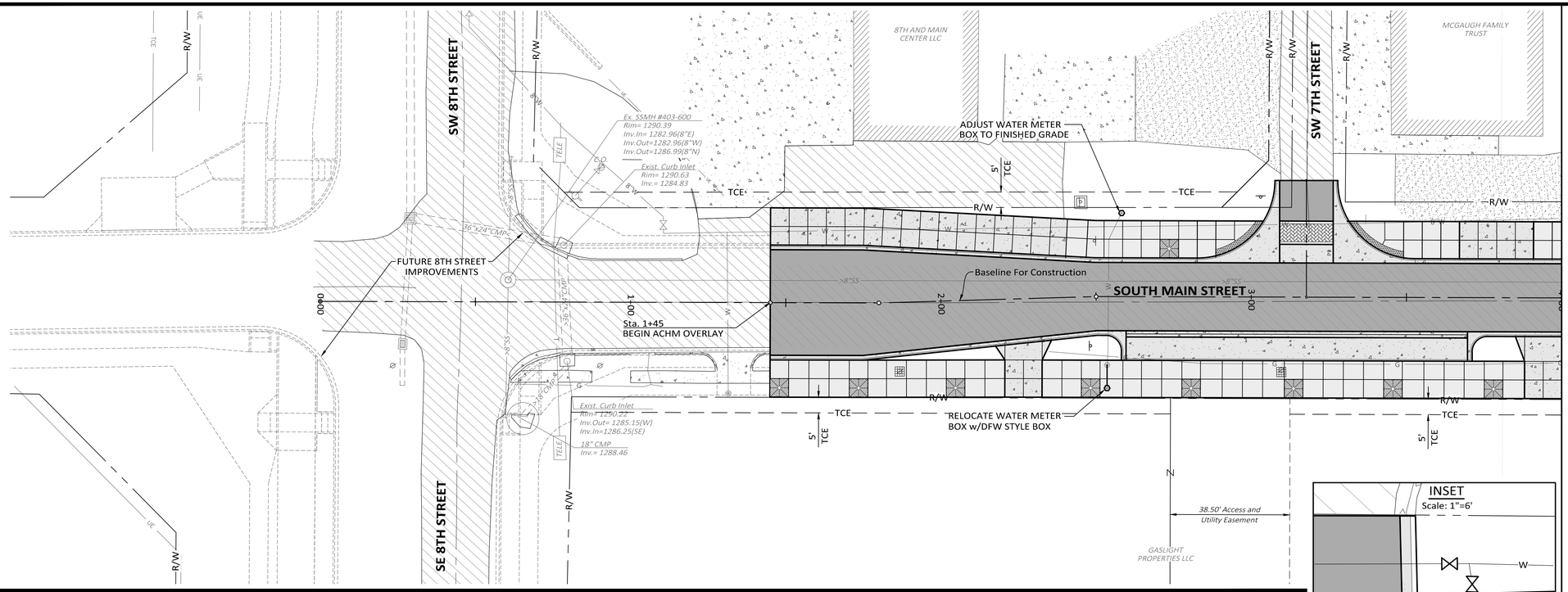
Bentonville, Benton County, Arkansas

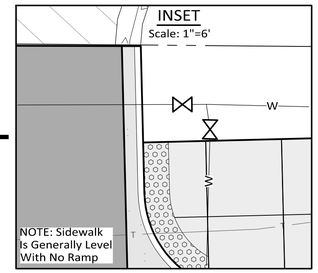
HORIZONTAL CONTROL AND DIMENSION PLAN SOUTH MAIN STREET (Sta. 19+00 to Sta. 27+19.97)

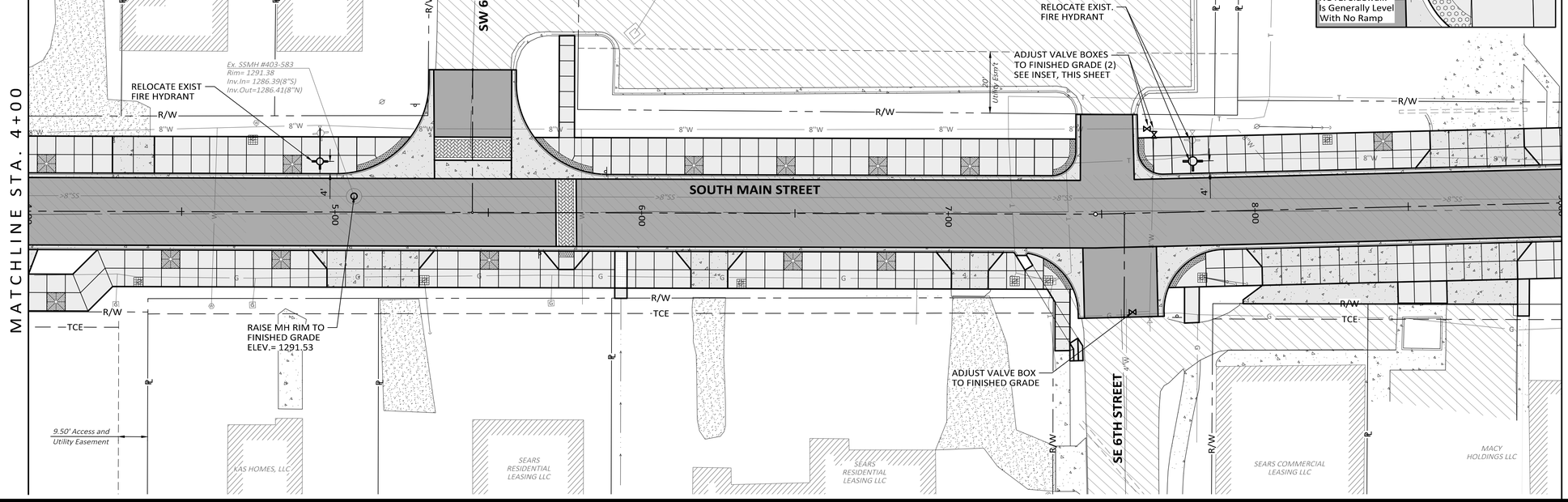
Issued for Bidding – 8.15.2021

Sheet No.: 13 of 44

Drawing Name: M:\SIS\SKP\PROJ\BTV-04A\DRAFTING\BTV-04A BASE.dwg Last Modified: Aug 13, 2021 - 1:37pm Plotted on: Aug 13, 2021 - 1:43pm by dzarrella

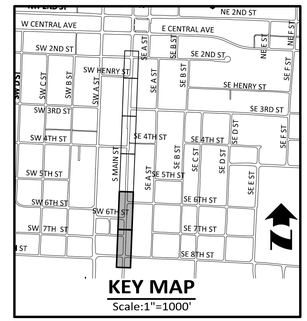






CALL BEFORE YOU DIG 1-800-482-8998 ARKANSAS ONE CALL SYSTEM

20 0 20
Scale in Feet



UTILITY NOTES

1. Unless Otherwise Shown On Plans, All Water Meters, Water Valves, Manhole Rims, And Fire Hydrants Shall Be Adjusted To Meet Finished Grade In All Areas Where Proposed Improvements Interfere With Such.
2. Water & Sewer Utility Lines, Valves, Fittings And Construction Methods Shall Conform To The City Of Bentonville Standard Specifications. Existing Utilities Near The Proposed Work Are Shown Only In An Approximate Location On These Plans. Contractor Shall Call The State One-Call System Prior To Construction @ 1-800-482-8998. Contractor Shall On His Own Initiative And At No Additional Cost, Locate All Underground Lines And Structures As Necessary. Contractor Shall Verify And Calculate All Points Of Connection And All Utility Crossings And Inform Morrison-Shipley Engineers, Inc. And/Or The Owner Of Any Conflicts Or Required Deviations From The Plans.
3. All Electric, Telephone, And Gas Extensions Including Service Lines Shall Be Constructed To The Appropriate Utility Company Specifications And Requirements. All Utility Company Disconnections Shall Be Coordinated With The Designated Utility Company. Contractor Shall Further Coordinate Any Disruptions To Existing Utility.
4. As Directed By Engineer In Field, Contractor Shall Verify The Location And Depth Of The Exist. 16" & 4" Water Lines Located Within SW 4th Street Intersection To Confirm There Are No Conflicts With Proposed Improvements.
5. Proposed Storm Drain Improvements Shall Be Layed Beneath The Exist. 16" Water Line, Not Above. The 16" Water Line Shall Not Be Disturbed.
6. Meter Relocations Will Be Performed By The City Of Bentonville At The City's Expense. Contractor Shall Coordinate With City On The Timing Of Relocations. Contractor Shall Provide A Grade Stake For Relocations.
7. Meters Placed In Sidewalks Shall Be DFW Style Boxes.
8. Manhole Riser Rings Are Acceptable For Use In Raising The Rim To Grade. A Max Of 2 Rings Up To 12" Max. Grade Change Is Permissible. Rings And Seals Shall Be Per City Specifications. Contractor And Engineer Shall Confirm Proposed Rim Elevations In Field And Make Adjustments As Needed.
9. Fire Hydrants Shall Be Set Behind Curb At The Distance Per City's Fire Hydrant Detail. Fire Hydrants May Be Relocated Within The Proposed Sidewalk And In Line w/ Adjacent Tree Grates Where Possible. Fire Hydrants Shall Maintain 8' Min. Separation From A Tree.
10. For An Exist. Fire Hydrant Proposed To Be Removed, The Gate Valve Shall Be Closed And Plugged. Restrain The Gate Valve To Tee If Not Already Restrained Before Removing Fire Hydrant And Blocking.
11. All Trees Shall Have A Min. Separation Of 5' From Water And Sewer Lines.
12. Contractor Shall Employ A Licensed Professional Plumber To Connect Domestic Services Back To Relocated Meters, On The Customer Side.

Revision	By	Date

MORRISON SHIPLEY
2407 SE COTTONWOOD STREET • BENTONVILLE, AR 72712 • 479.273.2209 • MORRISONSHIPLEY.COM

STATE OF ARKANSAS LICENSED PROFESSIONAL ENGINEER No.10222 BRIAN S. MAUPIN 8/15/2021

The Original Signed and Sealed Document is on file at the Office of Record

Drawn By:	JMN
Approved By:	BSM
Date:	8.15.2021
Project No.:	BTV-04A

Vertical Scale:	–
Horizontal Scale:	1"=20'
Plotting Scale:	1
City Project No.	PIIP20-0002

SOUTH MAIN STREET IMPROVEMENTS

(SW 8th Street to SW 2nd Street)

Bentonville, Benton County, Arkansas

PAVING AND UTILITY PLAN
SOUTH MAIN STREET
(Sta. 1+45 to Sta. 9+00)

Issued for Bidding – 8.15.2021

Sheet No.: 14 of 44

Drawing Name: M:\SOS\PROJ\BTV-04A\VRAT\TING\BTV-04A BASE.dwg Last Modified: Aug 13, 2021 - 1:37pm Plotted on: Aug 13, 2021 - 1:43pm by dcarreira

MATCHLINE STA. 9+00

MATCHLINE STA. 14+00

MAIN CO-OP PROPERTY LLC

BENTONVILLE LIBRARY FOUNDATION

CITY OF BENTONVILLE

WESTPARK PROPERTIES LLC

CITY OF BENTONVILLE

ADJUST EXISTING FIRE HYDRANT TO FINISHED GRADE

RELOCATE WATER METER BOX W/ METER (TYP.)

RELOCATE HOTBOX FROM SIDEWALK ACTUAL LOCATION TO BE DETERMINED BY PLUMBING CONTRACTOR AND APPROVED BY ENGINEER.

Ex. SSMH #403-582
Rim= 1290.99
Inv.In= 1285.00(4"W)
Inv.In= 1284.82(8"N)
Inv.Out=1284.64(8"E)

RAISE MH RIM TO FINISHED GRADE ELEV.= 1291.25

R/W

TCE

8"W

8"SS

SOUTH MAIN STREET

10+00

11+00

12+00

13+00

23"x14" RCPE

>18"RCP

>3"x14"RCPE

RAISE MH RIM TO FINISHED GRADE ELEV.= 1293.08

Ex. SSMH #403-599
Rim= 1292.91
Inv.In= 1285.43(8"S)
Inv.Out=1285.38(8"N)

Ex. SSMH #403-598
Rim= 1291.64
Inv.In= 1284.72(8"S)
Inv.In= 1284.56(12"W)
Inv.Out=1284.54(12"E)

RAISE MH RIM TO FINISHED GRADE ELEV.= 1291.81

Exist. Curb Inlet
Rim= 1291.28
Inv.= 1288.94

Exist. Curb Inlet
Rim= 1291.16
Inv.= 1288.60

Ex. SSMH #403-577
Rim= 1291.35
Inv.In= 1284.51(14"N)
Inv.Out=1284.51(14"E)

RAISE MH RIM TO FINISHED GRADE ELEV.= 1291.60

Ex. SSMH #403-579
Rim= 1290.77
Inv.In= 12xx.xx(4"E)
Inv.In= 12xx.xx(8"W)
Inv.Out=12xx.xx(14"S)

RAISE MH RIM TO FINISHED GRADE ELEV.= 1291.10

Exist. Junction Box
N.Rim= 1292.53
Inv.= xxx.xx

Exist. Junction Box
Rim= 1292.52
Inv.= xxx.xx

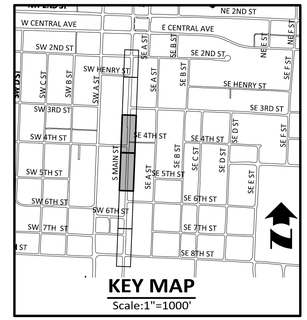
MACY HOLDINGS LLC

BENTONVILLE LIBRARY FOUNDATION

BENTONVILLE LIBRARY FOUNDATION

CALL BEFORE YOU DIG 1-800-482-8998 ARKANSAS ONE CALL SYSTEM

20 0 20
Scale in Feet



KEY MAP
Scale:1"=1000'

CITY OF BENTONVILLE

BARNES FAMILY TRUST

AMY & BENJAMIN D. HALL

EMMA PARTNERS LLC.

SCOTT VENTURES LLC

CENTER CITY LLC

SW 4TH STREET

ADJUST VALVE BOX TO FINISHED GRADE D/E

Ex. SSMH #403-594
Rim= Covered
Inv.= ±1285.48 (8"N,S)

RAISE MH RIM TO FINISHED GRADE ELEV.= 1290.80

RELOCATE WATER METER BOXES W/ METERS (TYP.)

ADJUST VALVE BOX TO FINISHED GRADE

TCE

R/W

>36"RCP

15+00

16+00

17+00

18+00

Sta. 15+80
END ACHM OVERLAY

Double 38"x24"RCPE

>38"RCP

>60"x38"RCPE

SOUTH MAIN STREET

EXISTING 4" WATER (PREVIOUSLY ABANDONED)

RELOCATE WATER METER BOX W/ METER

>18"RCP

>30"RCP

>36"x24"RCPE

23"x14" RCPE

24" RCP

24"CMP w/ Headwall Inv.=±1288.14

30"x20"RCPE Inv.=±1288.28

REMOVE & DISPOSE EXIST. FIRE HYDRANT PLUG 6" GATE VALVE

RELOCATE WATER METER BOX w/DFW STYLE BOX

ADJUST VALVE BOX TO FINISHED GRADE

INSTALL NEW FIRE HYDRANT ASSEMBLY 8"X6" TAPPING SLEEVE & VALVE

EXISTING 16" WATER LINE PROTECT!!!

ADJUST WATER METER BOX TO FINISHED GRADE

RELOCATE METER BOX W/ DFW STYLE BOX, INCLUDING SHUTOFF VALVE. RELOCATION PERFORMED BY CITY OF BENTONVILLE. CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THE RIM IS FLUSH TO GRADE

Existing Sidewalk

PROTECT POST INDICATOR VALVE. (REMOVE & DISPOSE CONCRETE BOLLARDS)

Ex. SSMH #403-594
Rim= 1291.71
Inv.In= 1286.06(8"E)
Inv.In= 1286.02(8"N)
Inv.Out=1286.00(8"S)

Ex. SSMH #403-6348
N.Rim= 1291.22
Inv.In= 1286.67(4"SE)
Inv.In= 1286.49(4"NE)
Inv.Out=1286.43(8"W)

BENTONVILLE LIBRARY FOUNDATION

CITY OF BENTONVILLE

BENTONVILLE LIBRARY FOUNDATION

MSB HOLDINGS LLC & IMAGE MATTERS INC

IMAGE MATTERS INC

NEUEBOX LLC

301 SOUTH MAIN LLC

Revision	By	Date

MORRISON SHIPLEY

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STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No.10222
BRIAN S. MAURER
8/15/2021

The Original Signed and Sealed Document is on file at the Office of Record

Drawn By:	JMN
Approved By:	BSM
Date:	8.15.2021
Project No.:	BTV-04A

Vertical Scale:	–
Horizontal Scale:	1"=20'
Plotting Scale:	1
City Project No.	PIIP20-0002

SOUTH MAIN STREET IMPROVEMENTS

(SW 8th Street to SW 2nd Street)

Bentonville, Benton County, Arkansas

PAVING AND UTILITY PLAN
SOUTH MAIN STREET
(Sta. 9+00 to Sta. 19+00)

Issued for Bidding – 8.15.2021

Sheet No.: 15 of 44

Drawing Name: M:\SDSKPROJ\BTV-04A\DRAFTING\BTV-04A BASE.dwg Last Modified: Aug 13, 2021 - 1:37pm Plotted on: Aug 13, 2021 - 1:43pm by dzarrera

MATCHLINE STA. 19+00

MATCHLINE STA. 24+00

FUTURE THE LEDGER PROJECT IMPROVEMENTS

CENTER CITY LLC

FUTURE THE LEDGER PROJECT IMPROVEMENTS

FIRST BAPTIST CHURCH OF BENTONVILLE

Ex. SSMH #403-6345
Rim= 1294.16
Inv.In= 1287.14(8"N)
Inv.Out=1287.12(8"S)

Ex. SSMH #403-6349
Rim= 1294.76
Inv.In= 1287.36(8"N)
Inv.Out=1287.34(8"S)

Ex. SSMH #403-6347
Rim= 1295.20
Inv.In= 1287.85(6"W)
Inv.In= 1287.62(8"N)
Inv.Out=1287.59(8"S)

Junction Box
Rim= 1295.40
Inv.= 1282.90

Junction Box
Rim= 1295.02
Inv.= 1282.93(E)
Inv.= 1282.89(S)

ADJUST VALVE BOX TO FINISHED GRADE

ADJUST VALVE BOX TO FINISHED GRADE

ADJUST VALVE BOX TO FINISHED GRADE

SOUTH MAIN STREET

SE 3RD STREET

>60"x38"RCPE

48"RCP

18"RCP

RELOCATE METER BOXES W/ METERS (2)

ADJUST VALVE BOX TO FINISHED GRADE

RELOCATE WATER METER BOX W/ METER (TYP.)

301 SOUTH MAIN LLC

MULDOON DECLARATION OF TRUST

FUTURE MOTTO HOTEL PROJECT IMPROVEMENTS

BENTON COUNTY

SOUTHWESTERN BELL TELEPHONE COMPANY

FIRST BAPTIST CHURCH OF BENTONVILLE

SW HENRY STREET

SW 2ND STREET

SE 2ND STREET

RELOCATE METER BOX W/ DFW STYLE BOX

ADJUST VALVE BOX TO FINISHED GRADE

ADJUST VALVE BOXES TO FINISHED GRADE (4)

SOUTH MAIN STREET

ACCESIBLE RAMPS

Ex. SSMH #403-561
Rim= 1294.36
Inv.= 1283.86

Sta. 27+19.97
END CONSTRUCTION

Exist. SD Manhole
Rim= 1293.90
Inv.= xxx.xx

LOWER MH RIM TO FINISHED GRADE ELEV: 1293.60

Exist. Grated Inlet
Top= 1293.41
Inv.= 1285.36

Exist. Grated Drain
Top= 1293.55
Inv.= 1293.25

Exist. Grated Drain
Top= 1293.33
Inv.= 1291.89

RELOCATE EXISTING FIRE HYDRANT w/ 90° BEND

RELOCATE METER BOXES W/ DFW STYLE BOX

ALTA VISTA LLC

ALTA VISTA LLC

ALMADHOUN PROPERTIES LLC

DBR PROPERTIES LLC

CBTR OUTDOORS LLC

GRACE & GREY DESIGNS LLC

INVEST NORTH AMERICA INC

BAKER TRUST

ACCOY FAMILY REVOCABLE TRUST

CLARK & SPENCE

CALL BEFORE YOU DIG 1-800-482-8998 ARKANSAS ONE CALL SYSTEM

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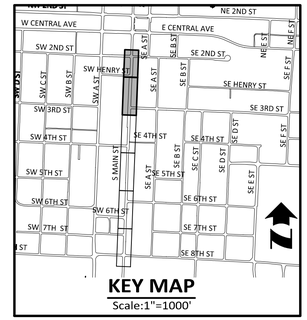
Scale in Feet



KEY MAP
Scale:1"=1000'

Revision	By	Date

MORRISON SHIPLEY

2407 SE COTTONWOOD STREET • BENTONVILLE, AR 72712 • 479.273.2209 • MORRISONSHIPLEY.COM

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No.10222
BRIAN S. MAUPIN
8/15/2021

The Original Signed and Sealed Document is on file at the Office of Record

Drawn By:	Vertical Scale:
JMN	–
Approved By:	Horizontal Scale:
BSM	1"=20'
Date:	Plotting Scale:
8.15.2021	1
Project No.:	City Project No.
BTV–04A	PIIP20–0002

SOUTH MAIN STREET IMPROVEMENTS

(SW 8th Street to SW 2nd Street)

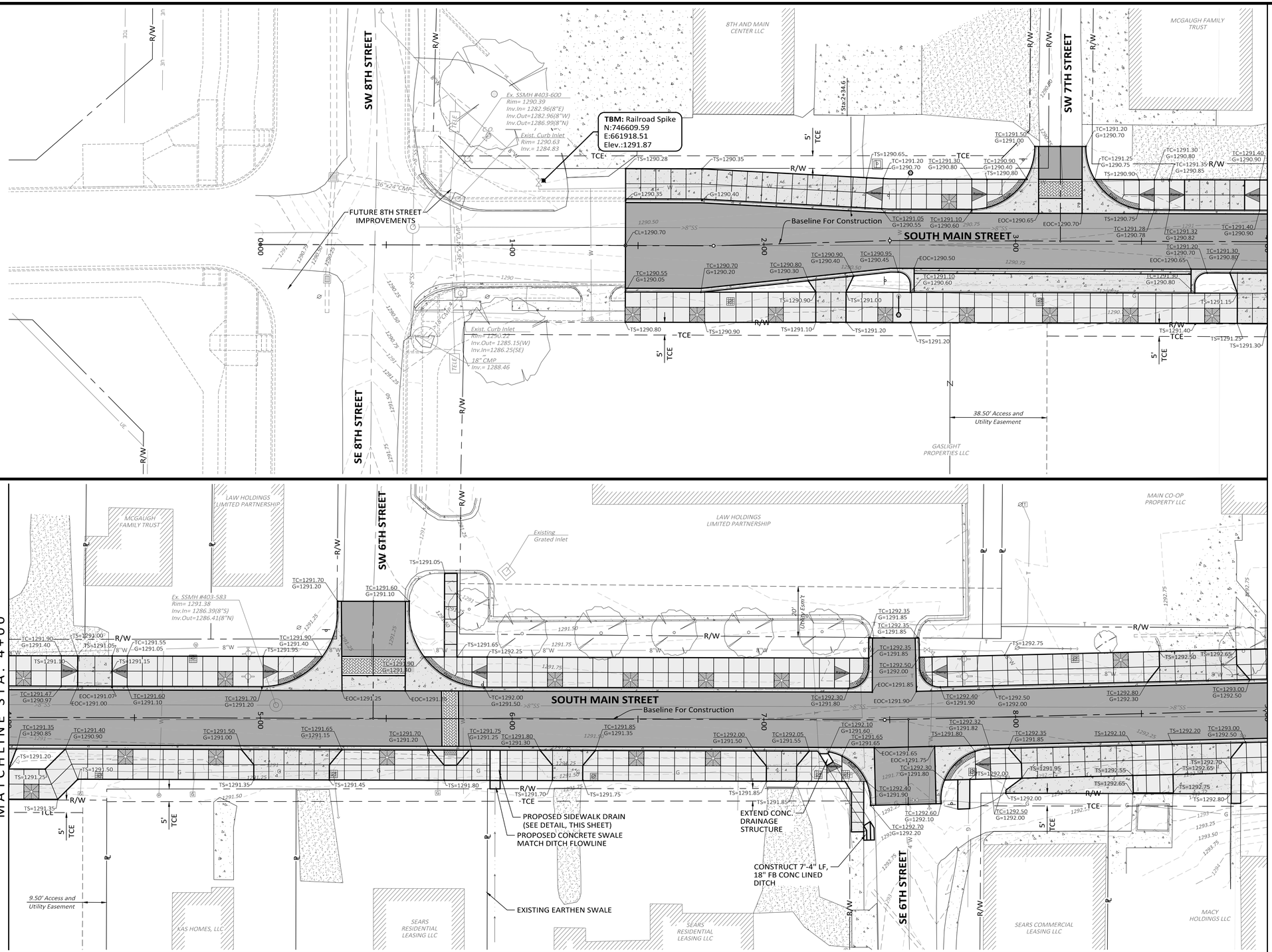
Bentonville, Benton County, Arkansas

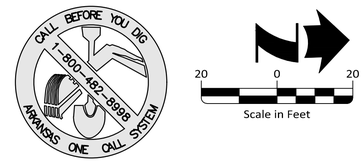
PAVING AND UTILITY PLAN
SOUTH MAIN STREET
(Sta. 19+00 to Sta. 27+19.97)

Issued for Bidding – 8.15.2021

Sheet No.: 16 of 44

Drawing Name: M:\SOS\PROJ\BTV-04A\10\RAT\TING\BTV-04A BASE.dwg Last Modified: Aug 13, 2021 - 1:37pm Plotted on: Aug 13, 2021 - 1:43pm by dcarreira





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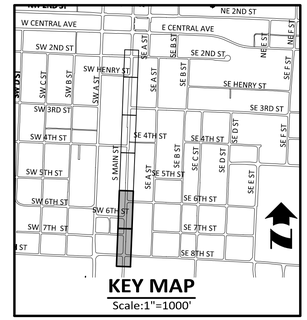
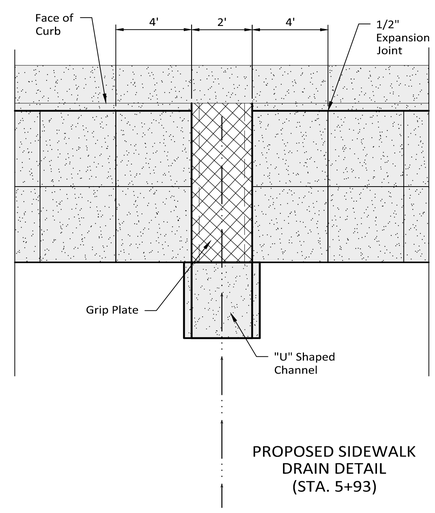
Scale in Feet



GRADING and DRAINAGE NOTES

1. No Clearing or Excavations Shall Begin Until All Erosion Control Measures Have Been Installed. The Contractor Shall Take All Precautions To Prevent Soil Sediment From Leaving The Site. All Erosion Control Measures Shall Be Maintained Until All Contributing Areas Are Graded and Stabilized.
2. All Disturbed Areas And Slopes Shall Be Graded Smooth, Receive 4" Topsoil And Sod. Refer To The Landscape Plan.
3. All Storm Drain Distances Are From Center Of Inlet To Center Of Inlet Or From Center Of Inlet To End Of Flared-End-Section or Headwall.
4. No Finished Grade Slopes Shall Exceed 3 Horiz. : 1 Vert.



PROPOSED SIDEWALK DRAIN DETAIL (STA. 5+93)

Revision	By	Date

MORRISON SHIPLEY
2407 SE COTTONWOOD STREET • BENTONVILLE, AR 72712 • 479.273.2209 • MORRISONSHIPLEY.COM

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No.10222
BRIAN S. MAURER
8/15/2021
The Original Signed and Sealed Document is on file at the Office of Record

Drawn By:	JMN
Approved By:	BSM
Date:	8.15.2021
Project No.:	BTV-04A

Vertical Scale:	–
Horizontal Scale:	1"=20'
Plotting Scale:	1
City Project No.	PIIP20-0002

SOUTH MAIN STREET IMPROVEMENTS
(SW 8th Street to SW 2nd Street)
Bentonville, Benton County, Arkansas

GRADING PLAN
SOUTH MAIN STREET
(Sta. 1+45 to Sta. 9+00)

Issued for Bidding – 8.15.2021

Sheet No.: 17 of 44

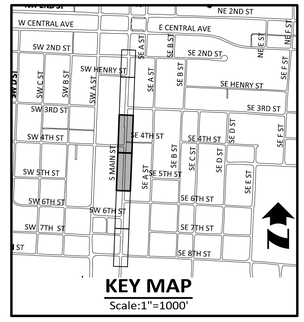
Drawing Name: M:\SDSKPROJ\BTV-04A\DRAFTING\BTV-04A BASE.dwg Last Modified: Aug 13, 2021 - 1:37pm Plotted on: Aug 13, 2021 - 1:43pm by dzarera

MATCHLINE STA. 9+00

MATCHLINE STA. 14+00

CALL BEFORE YOU DIG 1-800-482-8998 ARKANSAS ONE CALL SYSTEM

20 0 20
Scale in Feet



KEY MAP
Scale:1"=1000'

SOUTH MAIN STREET

MAIN CO-OP PROPERTY LLC
BENTONVILLE LIBRARY FOUNDATION
CITY OF BENTONVILLE
WESTPARK PROPERTIES LLC
MACY HOLDINGS LLC
BENTONVILLE LIBRARY FOUNDATION
BENTONVILLE LIBRARY FOUNDATION

Sta. 0+19, "A-7"
4'x5' Combination Inlet
Type "B" (6' Ext.)

Sta. 0+21, "A-6"
4'x5' Combination Inlet
Type "B" (9' Ext.)

Sta. 17+52, "A"
4'x5' Combination Inlet
Type "B" (6' Ext.)

Sta. 16+37, "A"
4'x5' Combination Inlet
Type "B"

TBM: Manhole
North Rim
N:747737.41
E:662041.52
Elev.:1292.53

Ex. SSMH #403-599
Rim= 1292.91
Inv.In= 1285.43(8"S)
Inv.Out=1285.38(8"N)

Ex. SSMH #403-598
Rim= 1291.64
Inv.In= 1284.72(8"S)
Inv.In= 1284.56(12"W)
Inv.Out=1284.54(12"E)

Exist. Curb Inlet
Rim= 1291.28
Inv.= 1288.94

Ex. SSMH #403-582
Rim= 1290.99
Inv.In= 1285.00(4"W)
Inv.In= 1284.82(8"N)
Inv.Out=1284.64(8"E)

Exist. Curb Inlet
Rim= 1291.16
Inv.= 1289.60

Ex. SSMH #403-577
Rim= 1291.35
Inv.In= 1284.51(14"N)
Inv.Out=1284.51(14"E)

Ex. SSMH #403-579
Rim= 1290.77
Inv.In= 12xx.xx(4"E)
Inv.In= 12xx.xx(8"W)
Inv.Out=12xx.xx(14"S)

Exist. Junction Box
N.Rim= 1292.53
Inv.= xxx.xx

Exist. Junction Box
Rim= 1292.52
Inv.= xxx.xx

SYSTEM "A-5"

SYSTEM "A-8"

SYSTEM "A-3"

SYSTEM "A-2"

CITY OF BENTONVILLE
BARNES FAMILY TRUST
AMY & BENJAMIN D. HALL
EMMA PARTNERS LLC.
SCOTT VENTURES LLC
CENTER CITY LLC

Sta. 0+21, "A-5"
4'x5' Combination Inlet
Type "B" (9' Ext.)

Sta. 0+99, "A-4"
6'x6' Curb Inlet (Open W)
(Tie to Ex. 24" CMP West)

SEE INSET ON INTERSECTION GRADING PLAN - SHEET 20

Sta. 0+31, "A-4"
10'x5' Curb Inlet
(4' Ext.)

Sta. 0+25, "A-3"
4'x4' Curb Inlet
(4' Ext.)

Sta. 0+24, "A-2"
4'x4' Curb Inlet
(4' Ext.)

Sta. 15+78, "A"
4'x5' Combination Inlet
Type "B" (3' Ext.)

Sta. 15+38, "A"
4'x5' Combination Inlet
Type "B" (6' Ext.)

Sta. 0+25, "A-8"
Concrete Headwall

Reconstruct 6 LF - "U" Shaped Conc. Channel

Sta. 14+54, "A"
10'x7' Curb Inlet

Sta. 13+82, "A"
4'x8' Reverse Curb Inlet "A"

Sta. 12+18, "A"
4'x8' Reverse Curb Inlet "A"

Exist. SDMH
(Remove & Dispose)
Junction Box
Rim= 1290.50
Inv.= 1286.02(NW)
Inv.= 1285.35(SE)
Inv.=1283.95(W,SW,NE)

Ex. SSMH #403-596
Rim= Covered
Inv.= ±1283.46

Ex. SSMH #403-594
Rim= 1291.71
Inv.In= 1286.06(8"E)
Inv.In= 1286.02(8"N)
Inv.Out=1286.00(8"S)

Ex. SSMH #403-6348
N.Rim= 1291.22
Inv.In= 1286.67(4"SE)
Inv.In= 1286.49(4"NE)
Inv.Out=1286.43(8"W)

BENTONVILLE LIBRARY FOUNDATION
CITY OF BENTONVILLE
BENTONVILLE LIBRARY FOUNDATION
MSB HOLDINGS LLC & IMAGE MATTERS INC
IMAGE MATTERS INC
NEUEBOX LLC
301 SOUTH MAIN LLC

Revision	By	Date

MORRISON SHIPLEY
2407 SE COTTONWOOD STREET • BENTONVILLE, AR 72712 • 479.273.2209 • MORRISONSHIPLEY.COM

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No.10222
BRIAN S. MAURER
8/15/2021

The Original Signed and Sealed Document is on file at the Office of Record

Drawn By:	JMN
Approved By:	BSM
Date:	8.15.2021
Project No.:	BTV-04A

Vertical Scale:	–
Horizontal Scale:	1"=20'
Plotting Scale:	1
City Project No.	PIIP20-0002

SOUTH MAIN STREET IMPROVEMENTS

(SW 8th Street to SW 2nd Street)

Bentonville, Benton County, Arkansas

GRADING PLAN
SOUTH MAIN STREET
(Sta. 9+00 to Sta. 19+00)

Issued for Bidding – 8.15.2021

Sheet No.: 18 of 44

Drawing Name: M:\SDSK\PROJ\BTV-04A\DWG\BTV-04A BASE.dwg Last Modified: Aug 13, 2021 - 1:37pm Plotted on: Aug 13, 2021 - 1:44pm by dzarera

MATCHLINE STA. 19+00

MATCHLINE STA. 23+65

FUTURE THE LEDGER PROJECT IMPROVEMENTS

CENTER CITY LLC

FUTURE THE LEDGER PROJECT IMPROVEMENTS

FIRST BAPTIST CHURCH BENTONVILLE

Ex. SSMH #403-6345
Rim= 1294.16
Inv.In= 1287.14(8"N)
Inv.Out=1287.12(8"S)

Ex. SSMH #403-6349
Rim= 1294.76
Inv.In= 1287.36(8"N)
Inv.Out=1287.34(8"S)

Ex. SSMH #403-6347
Rim= 1295.20
Inv.In= 1287.85(6"W)
Inv.In= 1287.62(8"N)
Inv.Out=1287.59(8"S)

TBM: Manhole
North Rim
N:748790.50
E:661995.93
Elev.:1295.40

Reconstruct Curb Inlet Top
See Detail Sheet 35

Junction Box
Rim= 1295.40
Inv.= 1282.90

Junction Box
Rim= 1295.02
Inv.= 1282.93(E)
Inv.= 1282.89(S)

SOUTH MAIN STREET

SYSTEM "A"

>60"x38" RCPE

Cut & Cap Exist.
4" Water Line

Exist. 4" Water Line
(Abandon In Place)

SE 3RD STREET

48"RCP<

Sta. 10+19, "A"
7'x6' Junction Box

Close & Plug Exist.
4" Gate Valve

301 SOUTH MAIN LLC

MULDOON DECLARATION OF TRUST

FUTURE MOTTO HOTEL PROJECT IMPROVEMENTS

MATCHLINE STA. 23+65

SOUTHWESTERN BELL TELEPHONE COMPANY

FIRST BAPTIST CHURCH OF BENTONVILLE

SW HENRY STREET

SOUTH MAIN STREET

SW 2ND STREET

SE 2ND STREET

Sta. 0+89, "B"
4'x4' Combination Inlet
Type "B" (4' Ext.)

SEE INSET ON INTERSECTION GRADING PLAN - SHEET 20

SYSTEM "B"

Protect Trench Detail

Ex. SSMH #403-561
Rim= 1294.36
Inv.= 1283.06

Exist. SD Manhole
Rim= 1293.90
Inv.= xxx.xx

Sta. 0+51, "B"
4'x4' Curb Inlet
w/Throat Extension
See Detail Sheet 35

Exist. Grated Drain
Top= 1293.55
Inv.= 1293.25

Exist. Grated Inlet
Top= 1293.41
Inv.= 1285.36

Sta. 0+00, "B"
Tie To Exist. Grate Inlet

Exist. Grated Drain
Top= 1293.33
Inv.= 1291.89

BENTON COUNTY

ALTA VISTA LLC

ALTA VISTA LLC

ALMADHOUN PROPERTIES LLC

DBR PROPERTIES LLC

CBTR OUTDOORS LLC

GRACE & GREY DESIGNS LLC

INVEST NORTH AMERICA INC

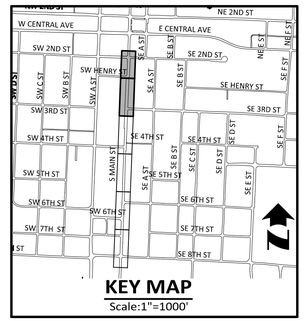
BAKER TRUST

MCCOY FAMILY REVOCABLE TRUST

CLARK & SPENCE

CALL BEFORE YOU DIG
1-800-482-8998
ARKANSAS ONE CALL SYSTEM

20 0 20
Scale in Feet



KEY MAP
Scale:1"=1000'

Revision	By	Date

MORRISON SHIPLEY

2407 SE COTTONWOOD STREET • BENTONVILLE, AR 72712 • 479.273.2209 • MORRISONSHIPLEY.COM

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No.10222
BRIAN S. MAURER
8/15/2021

The Original Signed and Sealed Document is on file at the Office of Record

Drawn By:	JMN
Approved By:	BSM
Date:	8.15.2021
Project No.:	BTV-04A

Vertical Scale:	–
Horizontal Scale:	1"=20'
Plotting Scale:	1
City Project No.	PIIP20-0002

SOUTH MAIN STREET IMPROVEMENTS

(SW 8th Street to SW 2nd Street)

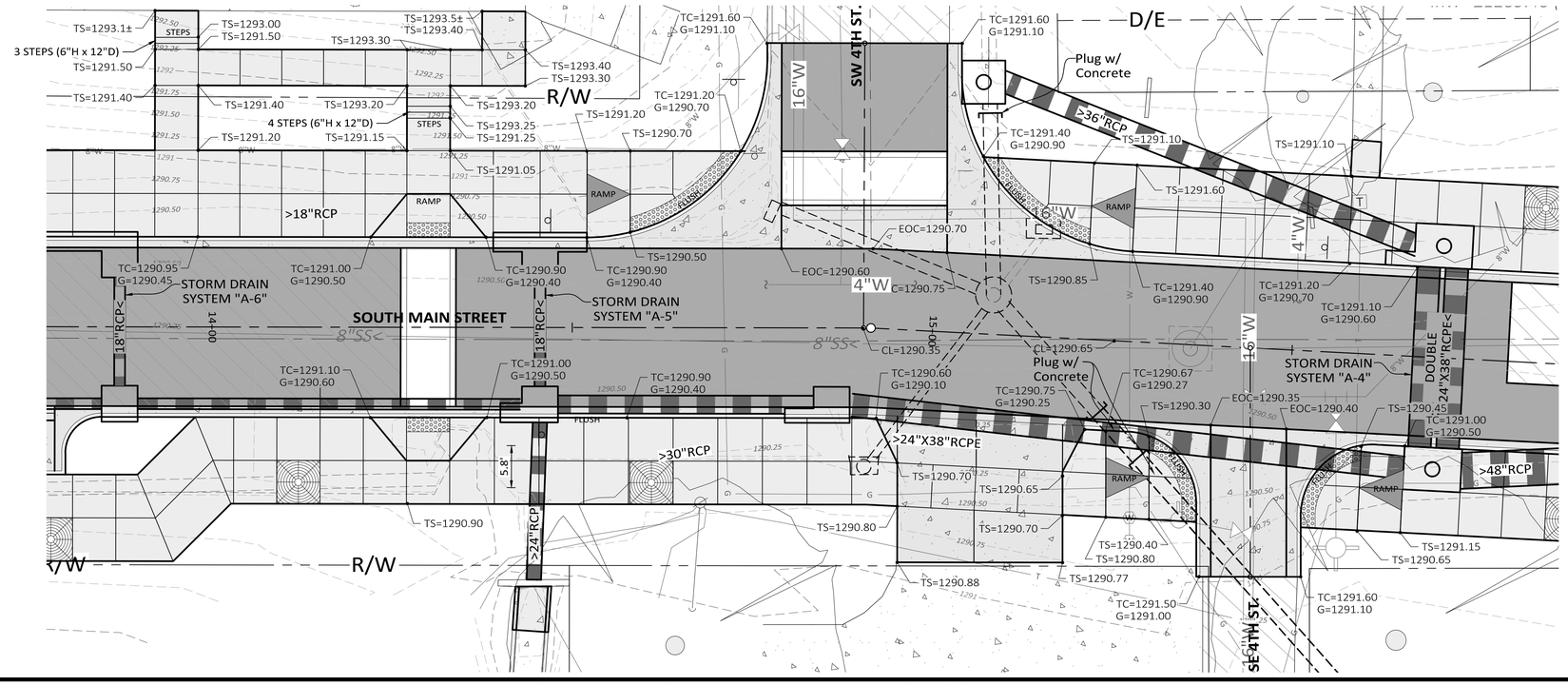
Bentonville, Benton County, Arkansas

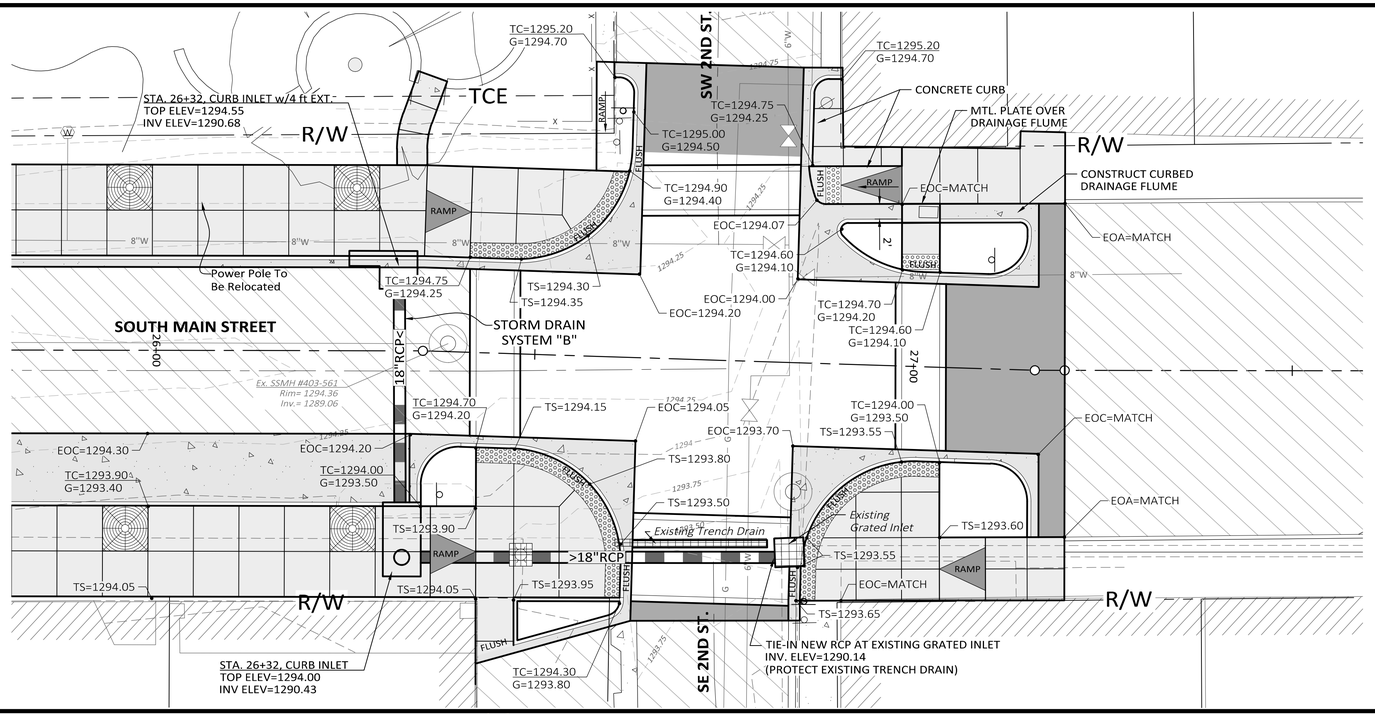
GRADING PLAN
SOUTH MAIN STREET
(Sta. 19+00 to Sta. 27+19.97)

Issued for Bidding – 8.15.2021

Sheet No.: 19 of 44

Drawing Name: M:\SIS\PROJ\BTV-04A\DRAFTING\BTV-04A BASE.dwg Last Modified: Aug 13, 2021 - 1:37pm Plotted on: Aug 13, 2021 - 1:44pm by dcarreira





CALL BEFORE YOU DIG 1-800-482-8998 ARKANSAS ONE CALL SYSTEM

10 0 10
Scale in Feet

Revision	By	Date

MORRISON SHIPLEY

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STATE OF ARKANSAS LICENSED PROFESSIONAL ENGINEER No.10222 BRIAN S. MAURER

The Original Signed and Sealed Document is on file at the Office of Record

Drawn By:	JMN
Approved By:	BSM
Date:	8.15.2021
Project No.:	BTV–04A

Vertical Scale:	–
Horizontal Scale:	1"=20'
Plotting Scale:	1
City Project No.	PIIP20–0002

SOUTH MAIN STREET IMPROVEMENTS

(SW 8th Street to SW 2nd Street)

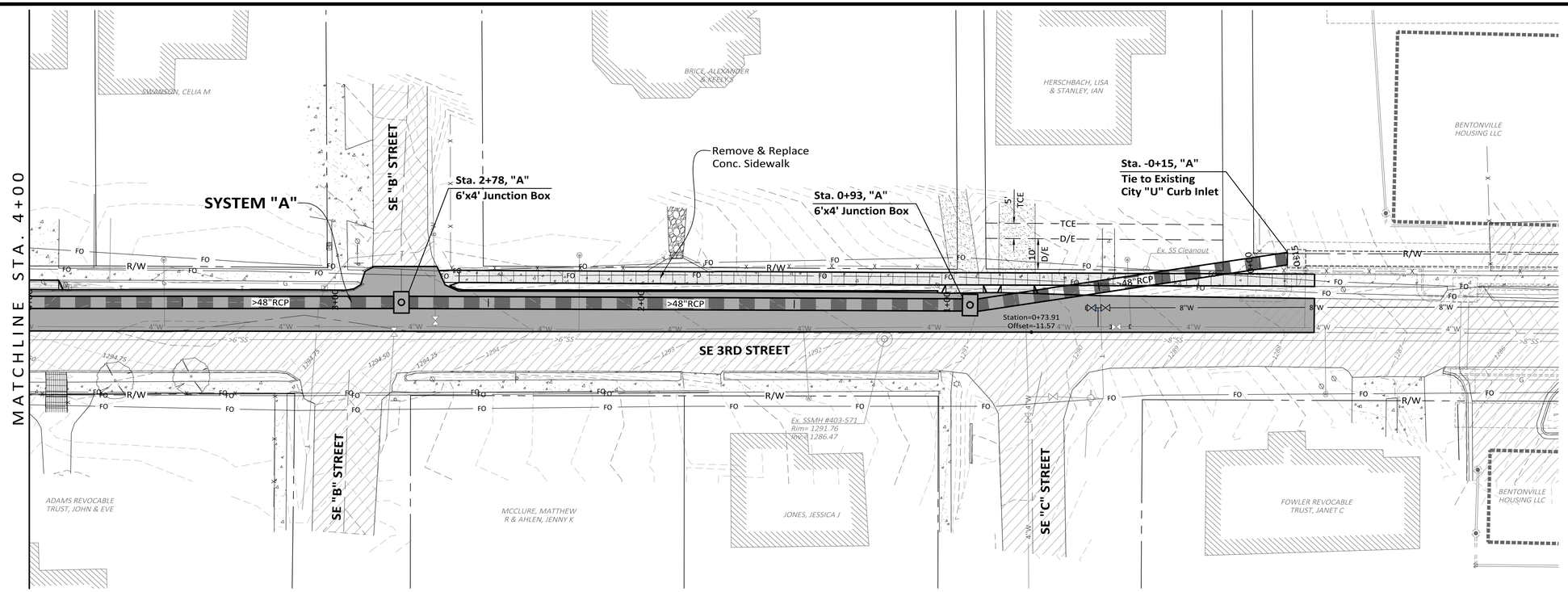
Bentonville, Benton County, Arkansas

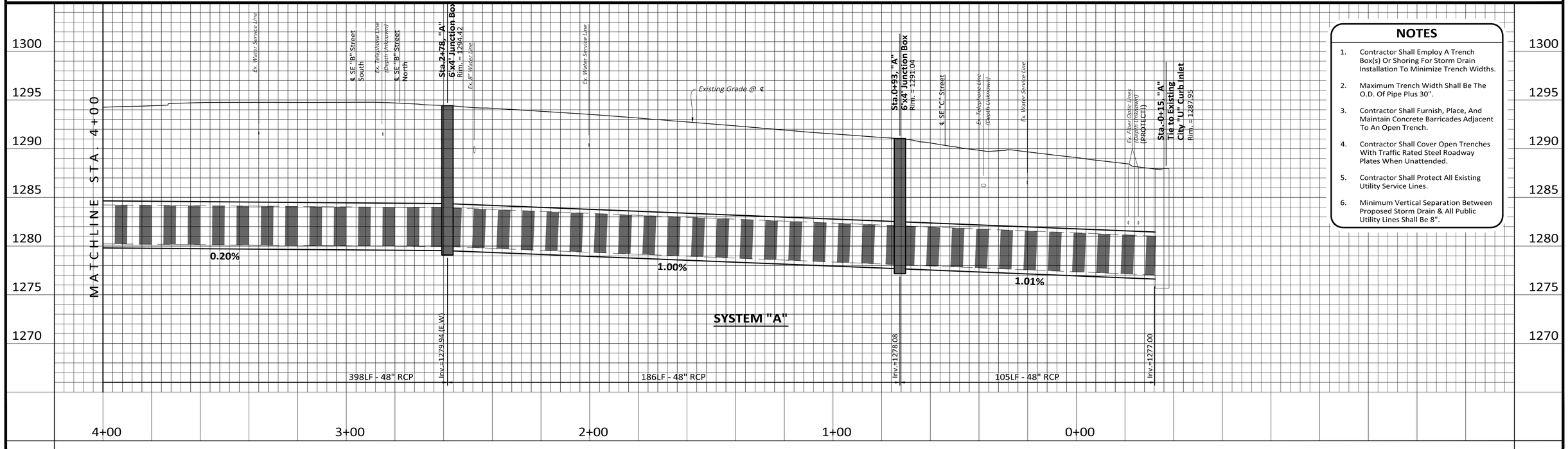
INTERSECTION GRADING PLAN (SW 4th and SW 2nd STREET)

Issued for Bidding – 8.15.2021

Sheet No.: 20 of 44

Drawing Name: M:\SOSKPROJ\BTV-04A\04ATTNG\BTV-04A BASE.dwg Last Modified: Aug 13, 2021 - 1:37pm Plotted on: Aug 13, 2021 - 1:44pm by dcarreira



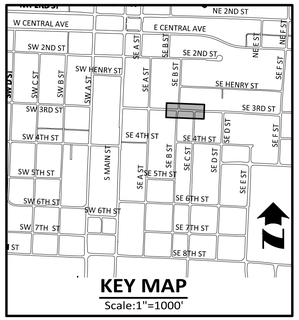


NOTES

1. Contractor Shall Employ A Trench Box(s) Or Shoring For Storm Drain Installation To Minimize Trench Widths.
2. Maximum Trench Width Shall Be The O.D. Of Pipe Plus 30".
3. Contractor Shall Furnish, Place, And Maintain Concrete Barricades Adjacent To An Open Trench.
4. Contractor Shall Cover Open Trenches With Traffic Rated Steel Roadway Plates When Unattended.
5. Contractor Shall Protect All Existing Utility Service Lines.
6. Minimum Vertical Separation Between Proposed Storm Drain & All Public Utility Lines Shall Be 8".

CALL BEFORE YOU DIG 1-800-482-8998 ARKANSAS ONE CALL SYSTEM

20 0 20
Scale in Feet



KEY MAP
Scale:1"=1000'

Revision	By	Date

MORRISON SHIPLEY
2407 SE COTTONWOOD STREET • BENTONVILLE, AR 72712 • 479.273.2209 • MORRISONSHIPLEY.COM

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No.10222
BRIAN S. MAURER
8/15/2021
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Drawn By:	JMN
Approved By:	BSM
Date:	8.15.2021
Project No.:	BTV-04A

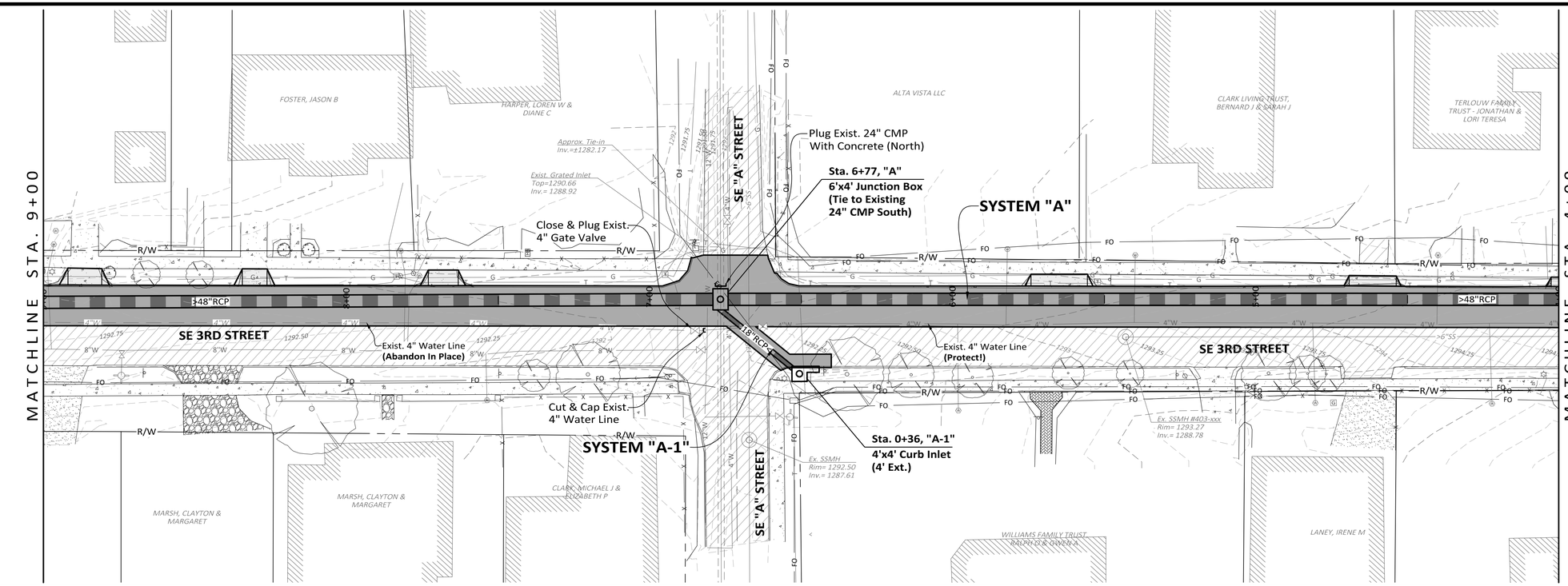
Vertical Scale:	–
Horizontal Scale:	1"=20'
Plotting Scale:	1
City Project No.	PIIP20-0002

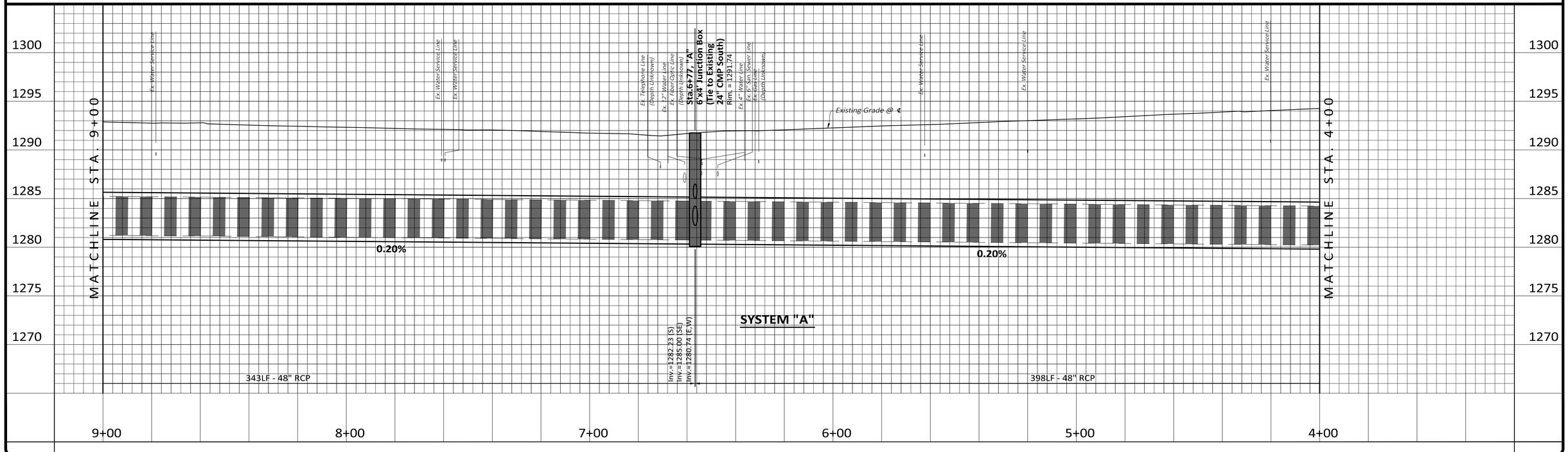
SOUTH MAIN STREET IMPROVEMENTS
(SW 8th Street to SW 2nd Street)
Bentonville, Benton County, Arkansas

PLAN and PROFILE
SYSTEM "A"
(STA. -0+32 to 4+00)
Issued for Bidding - 8.15.2021

Sheet No.: 21 of 44

Drawing Name: M:\SDSK\PROJ\BTV-04A\DWG\BTV-04A BASE.dwg Last Modified: Aug 13, 2021 - 1:37pm Plotted on: Aug 13, 2021 - 1:44pm by dcarrera





Revision	By	Date

MORRISON SHIPLEY
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STATE OF ARKANSAS LICENSED PROFESSIONAL ENGINEER No.10222 BRIAN S. MAURER 8/15/2021
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Approved By:	BSM
Date:	8.15.2021
Project No.:	BTV-04A

Vertical Scale:	–
Horizontal Scale:	1"=20'
Plotting Scale:	1
City Project No.	PIIP20-0002

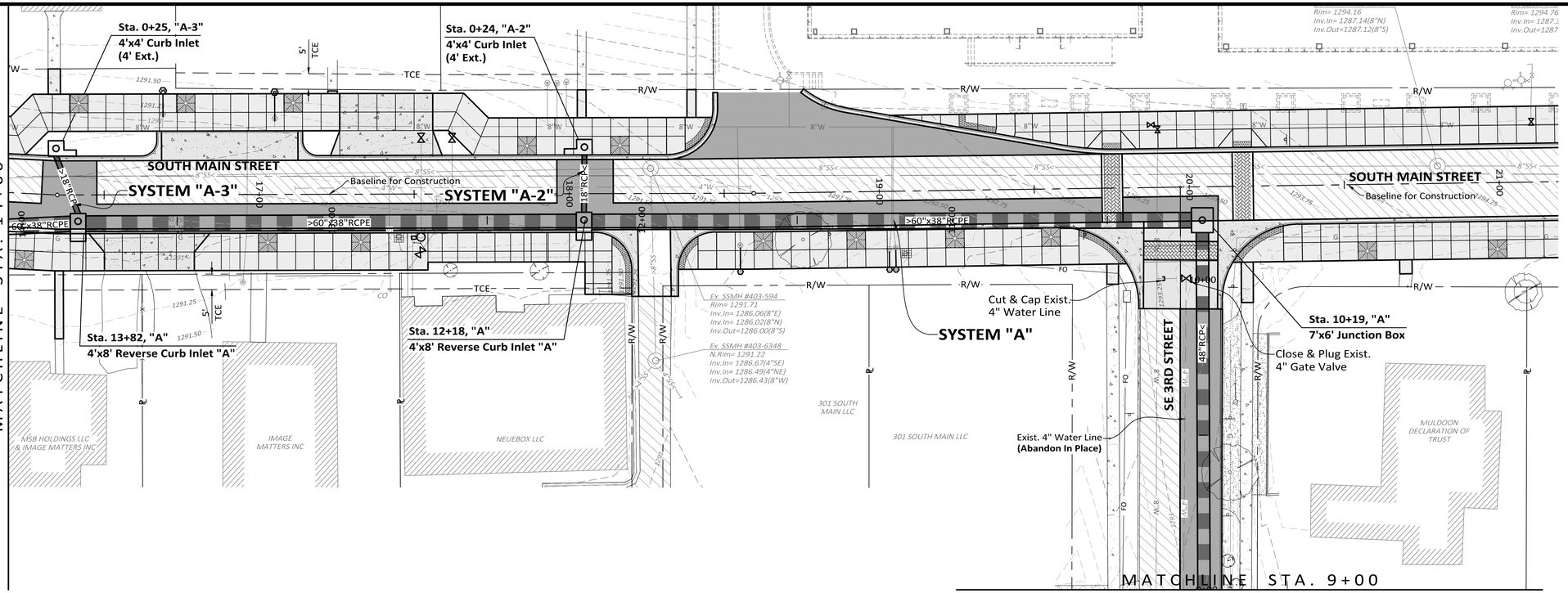
SOUTH MAIN STREET IMPROVEMENTS
(SW 8th Street to SW 2nd Street)
Bentonville, Benton County, Arkansas

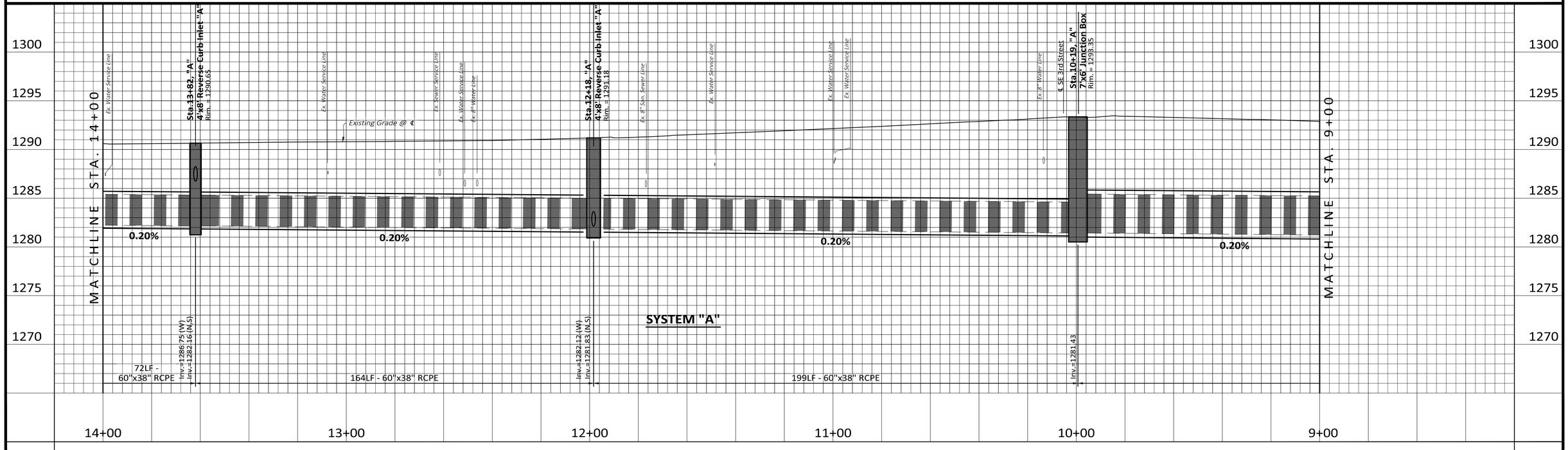
PLAN and PROFILE
SYSTEM "A"
(STA. 4+00 to 9+00)

Issued for Bidding – 8.15.2021

Sheet No.: 22 of 44

Drawing Name: M:\SDSK\PROJ\BTV-04A\DWG\BTV-04A-BASE.dwg Last Modified: Aug 13, 2021 - 1:37pm Plotted on: Aug 13, 2021 - 1:44pm by dcarreira





Revision	By	Date

MORRISON SHIPLEY
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STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
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BRIAN S. MAURER
8/15/2021
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Approved By:	BSM
Date:	8.15.2021
Project No.:	BTV-04A

Vertical Scale:	–
Horizontal Scale:	1"=20'
Plotting Scale:	1
City Project No.	PIIP20-0002

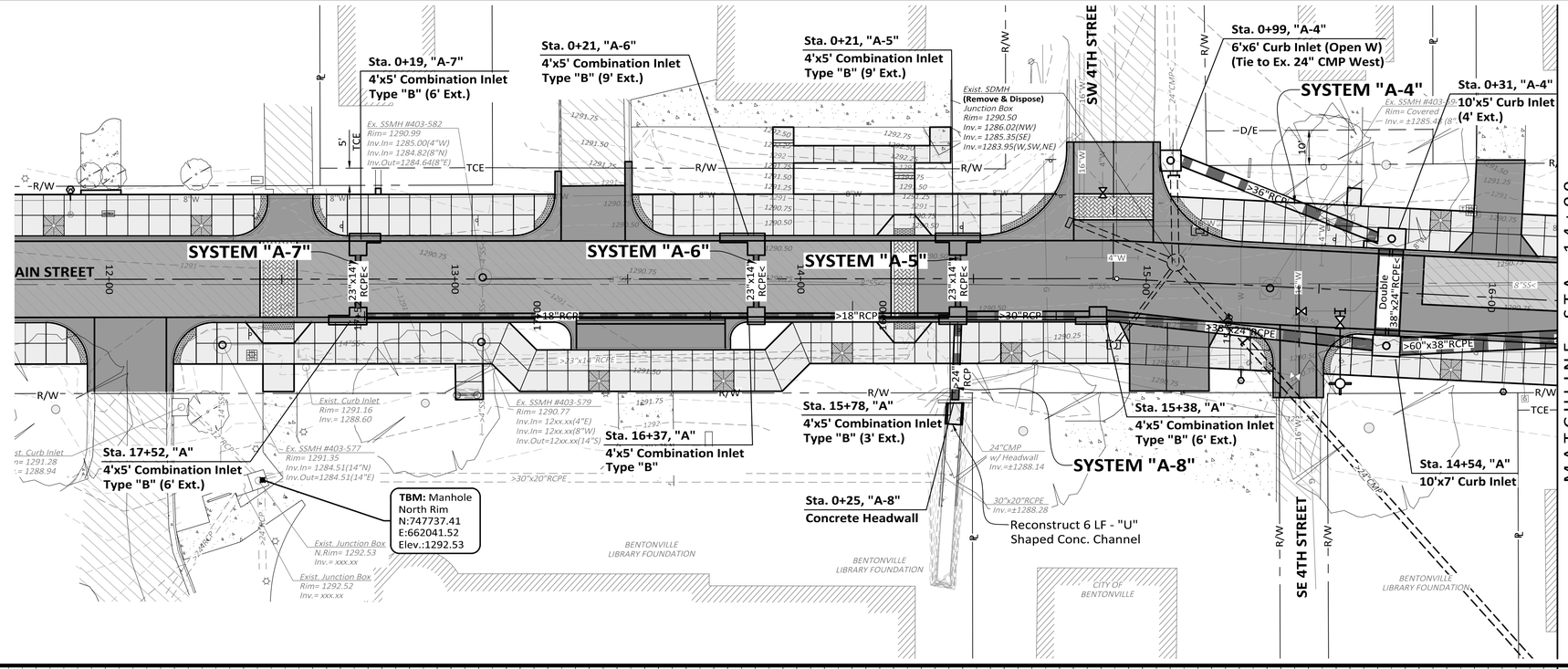
SOUTH MAIN STREET IMPROVEMENTS
(SW 8th Street to SW 2nd Street)
Bentonville, Benton County, Arkansas

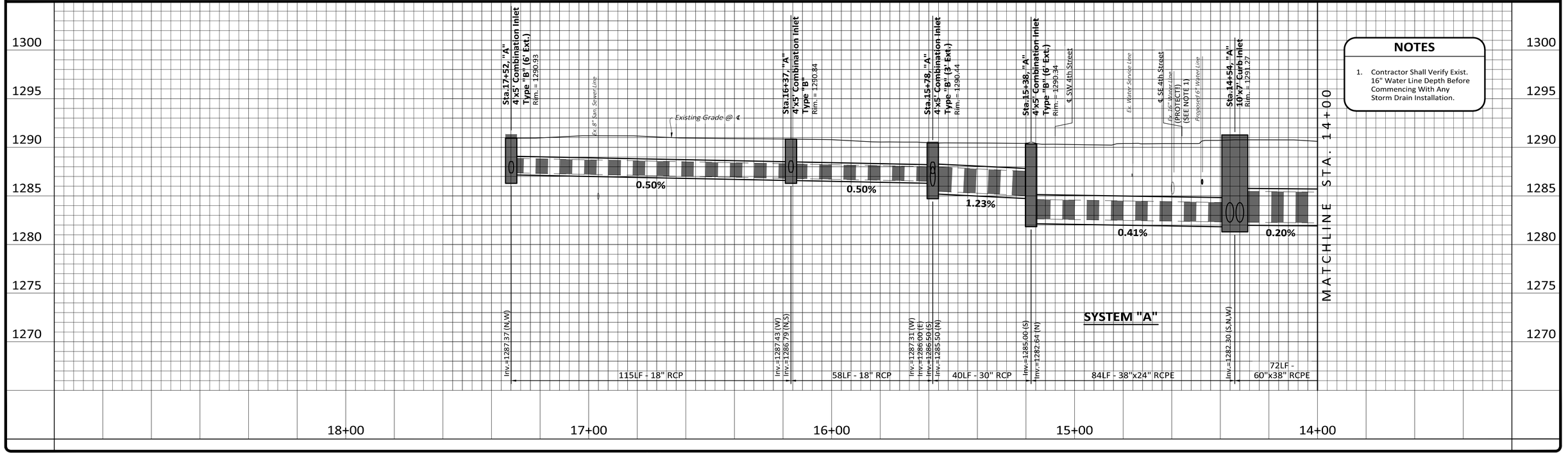
PLAN and PROFILE
SYSTEM "A"
(STA. 9+00 to 14+00)

Issued for Bidding – 8.15.2021

Sheet No.: 23 of 44

Drawing Name: M:\05SK\PROJ\BTV-04A\DRAFTING\BTV-04A-BASE.dwg Last Modified: Aug 13, 2021 - 1:37pm Plotted on: Aug 13, 2021 - 1:45pm by dcarreira





NOTES

1. Contractor Shall Verify Exist. 16" Water Line Depth Before Commencing With Any Storm Drain Installation.

Revision	By	Date

MORRISON SHIPLEY
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SOUTH MAIN STREET IMPROVEMENTS

(SW 8th Street to SW 2nd Street)

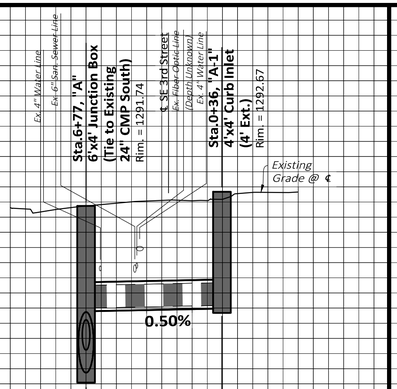
Bentonville, Benton County, Arkansas

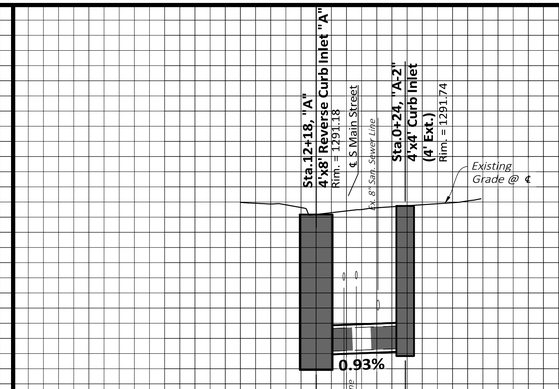
PLAN and PROFILE
SYSTEM "A"
(STA. 14+00 to 17+67)

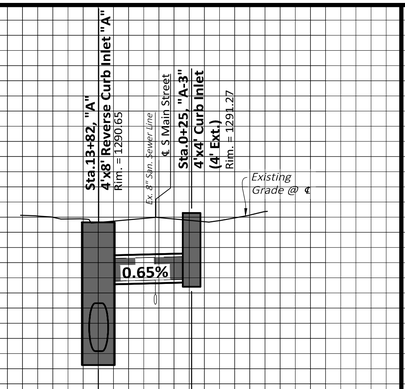
Issued for Bidding – 8.15.2021

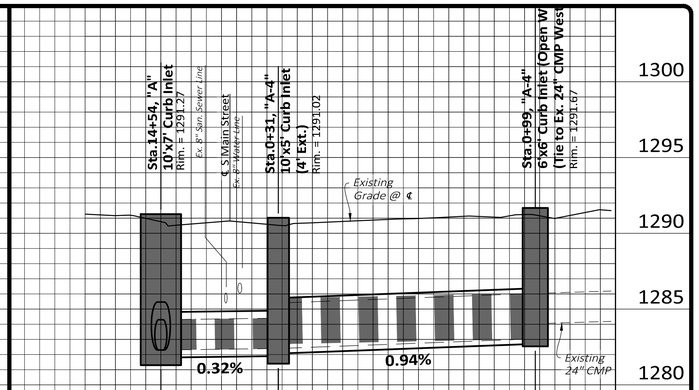
Sheet No.: 24 of 44

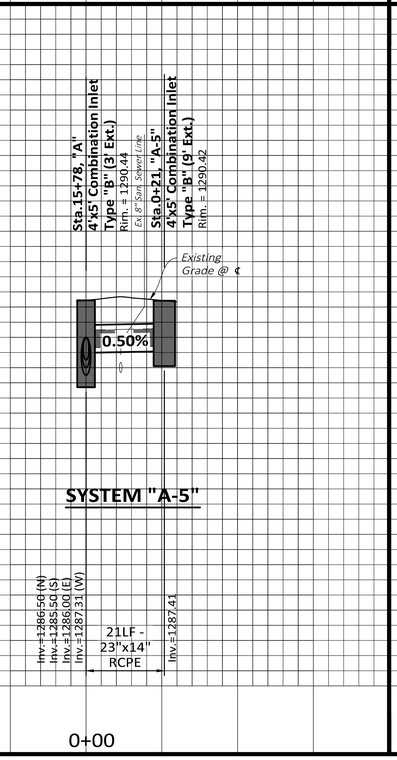
Drawing Name: M:\SDSK\PROJ\BTV-04A\DWAT\TNO\JBTV-04A-BASE.dwg Last Modified: Aug 13, 2021 - 1:37pm Plotted on: Aug 13, 2021 - 1:45pm by dcarreira

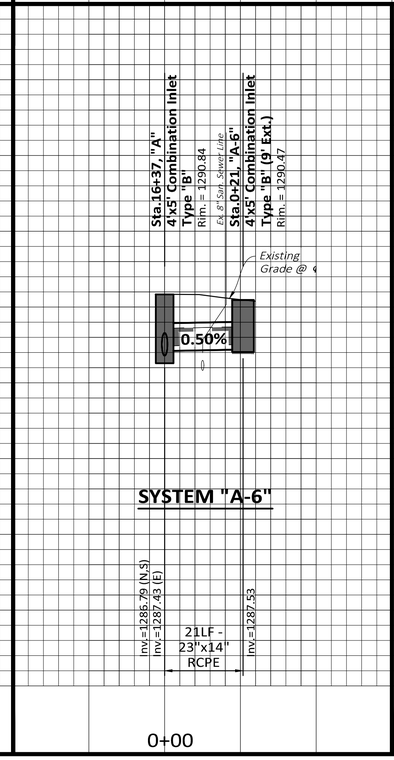


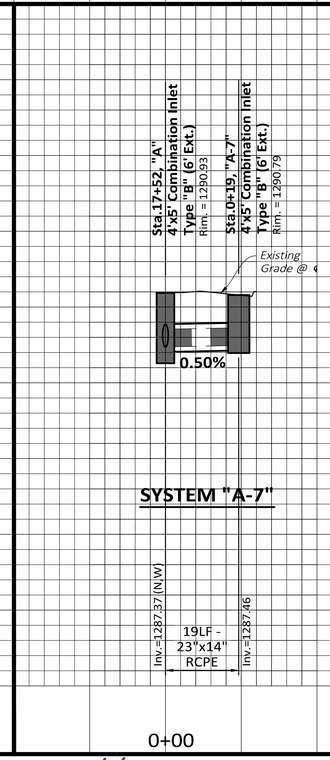


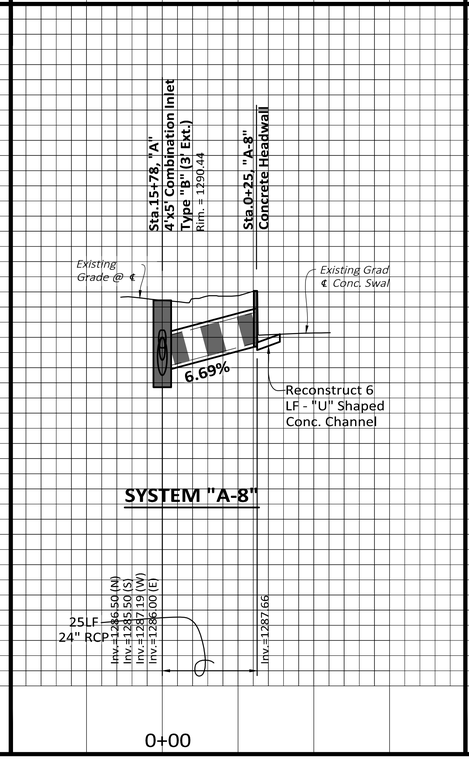


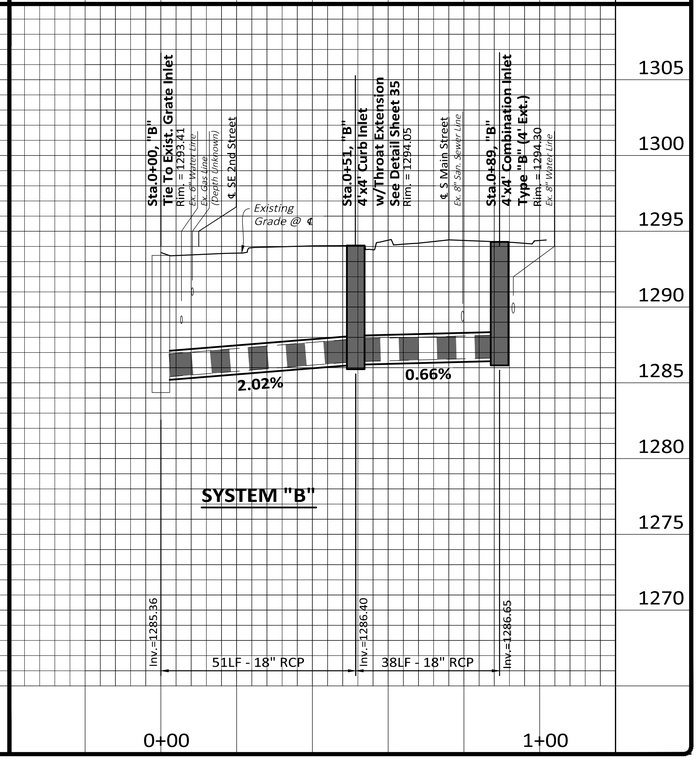












Revision	By	Date

MORRISON SHIPLEY

2407 SE COTTONWOOD STREET • BENTONVILLE, AR 72712 • 479.273.2209 • MORRISONSHIPLEY.COM

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No.10222
BRIAN S. MAURER
8/15/2021

The Original Signed and Sealed Document is on file at the Office of Record

Drawn By:	JMN
Approved By:	BSM
Date:	8.15.2021
Project No.:	BTV–04A

Vertical Scale:	–
Horizontal Scale:	1"=20'
Plotting Scale:	1
City Project No.	PIIP20–0002

SOUTH MAIN STREET IMPROVEMENTS

(SW 8th Street to SW 2nd Street)

Bentonville, Benton County, Arkansas

DRAINAGE PROFILES
(SYSTEMS "A-1" to "A-6" and "B")

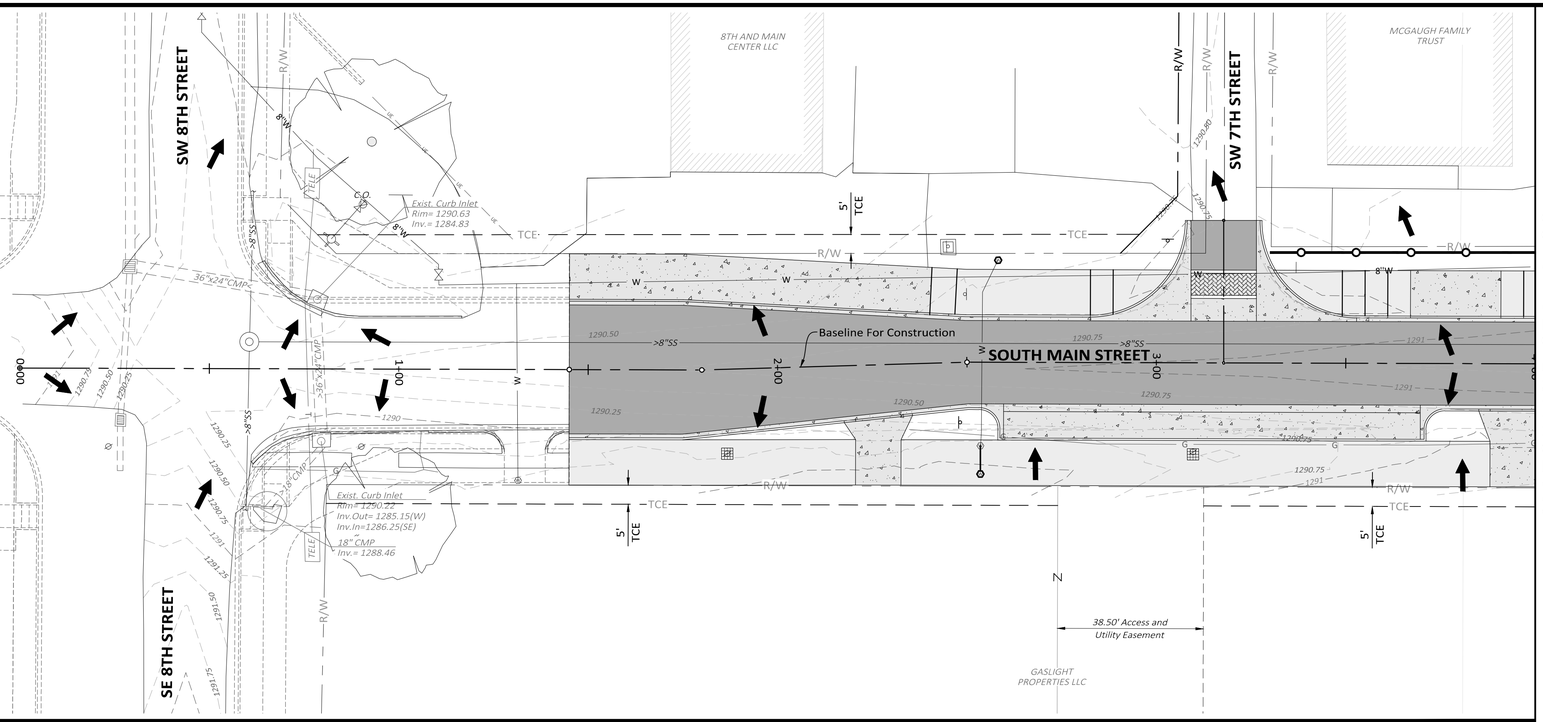
Issued for Bidding – 8.15.2021

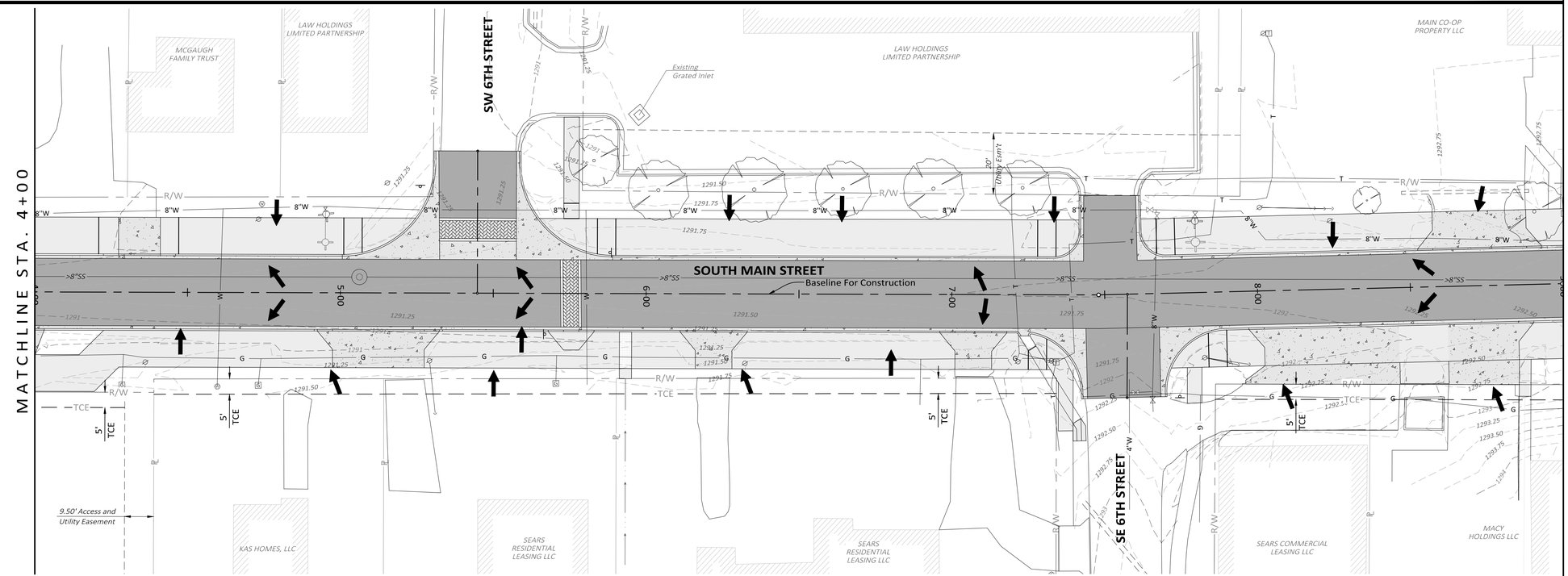
Sheet No.: 25 of 44

Drawing Name: M:\SISKRYRO\BTV-04A\04ARTING\BTV-04A BASE.dwg Last Modified: Aug 13, 2021 - 13:37pm Plotted on: Aug 13, 2021 - 1:45pm by dcarreira

EROSION CONTROL LEGEND

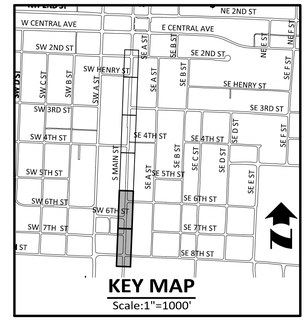
- Flow Arrows
- Proposed Inlet Protection
- Proposed Silt Fence or Approved Equal
- Proposed Concrete Washout Area
- Proposed Rock-Check Dam





CALL BEFORE YOU DIG 1-800-482-8998 ARKANSAS ONE CALL SYSTEM

20 0 20
Scale in Feet



EROSION CONTROL NOTES

1. Stabilization Measures Shall Be Initiated As Soon As Practicable In Portions Of The Site Where Construction Activities Have Temporarily Or Permanently Ceased, But In No Case More Than Seven (7) Days After Work Has Ceased. Following Initial Soil Disturbance Or Redisturbance, Permanent Or Temporary Stabilization Shall Be Completed Within Seven Calendar Days For The Surface Of All Perimeter Slopes
2. All Sediment And Erosion Control Devices Shall Be Inspected Every Seven (7) Days And Within 24 Hours Of Each Rainfall Occurrence That Exceeds One-half (0.5) Inch, Or Greater. Damaged Or Ineffective Devices Shall Be Repaired Or Replaced, As Necessary.
3. Provide Temporary Construction Entrance, Silt Fence, Inlet Protection, And Other Erosion Control Devices, As May Be Required, To Control Soil Erosion During All Phases Of Construction. All Disturbed Areas Shall Be Cleaned Of Debris, Finish Graded, And Stabilized With Permanent Vegetation Immediately After Completion Of Construction.
4. All Erosion Control Devices Shall Be Properly Maintained Until The Completion Of All Phases Of Construction And All Disturbed Areas Have Been Stabilized. Additional Control Devices May Be Required During Construction In Order To Control Erosion And/Or Off-Site Sedimentation. All Temporary Control Devices Shall Be Removed Once Permanent Vegetation Is Established.
5. All Areas Not To Be Paved Or Landscape Beds Shall Be Sodded With Bermuda Grass.
6. The Contractor Shall Inspect, Repair, And Add Stone To The Stabilized Construction Entrance When It Becomes Saturated With Mud To Ensure It Works As Intended.
7. Dust Control On-site Shall Be Minimized By Spraying Water On Dry Areas Of The Site. The Use Of Oils And Other Petroleum Based Or Toxic Liquids For Dust Suppression Is Prohibited. Any Sediment Track-Out Shall Be Corrected Immediately By Sweeping, Shoveling, Or Vacuuming Surfaces. Hosing Or Sweeping Sediment Into Downstream Storm Water Conveyance Areas Is Prohibited.
8. If The Majority Of Mud Or Dirt Is Not Removed From Traffic Exits, Contractor Shall Establish Additional Vehicle Wash Areas At Construction Traffic Exit Points. Rinse-Off Will Not Be Allowed Outside The Project Construction Limits.
9. All Erosion And Sedimentation Controls Shown On The Plans Shall Be Constructed In Accordance With Governing Authorities And Maintained As Part Of This Contract. Contractor To Install Erosion Control In Accordance With The Erosion Sedimentation Control Plan As A Minimum. Other Measures May Be Required To Assure That Silt Is Controlled On-site.
10. Hazardous Construction Materials And Waste Must Be Stored In A Manner That Minimizes Contact With Storm Water. Refer To Part 3.3.3 Of The ARK General Permit, Section F. e. Of The SWPPP, And The Spill Prevention And Response Checklist-Appendix B Of The SWPPP.

Revision	By	Date

MORRISON SHIPLEY

2407 SE COTTONWOOD STREET • BENTONVILLE, AR 72712 • 479.273.2209 • MORRISONSHIPLEY.COM

STATE OF ARKANSAS LICENSED PROFESSIONAL ENGINEER No.10222 BRIAN S. MAUPIN 8/15/2021

The Original Signed and Sealed Document is on file at the Office of Record

Drawn By:	JMN
Approved By:	BSM
Date:	8.15.2021
Project No.:	BTV–04A

Vertical Scale:	–
Horizontal Scale:	1"=20'
Plotting Scale:	1
City Project No.	PIIP20–0002

SOUTH MAIN STREET IMPROVEMENTS

(SW 8th Street to SW 2nd Street)

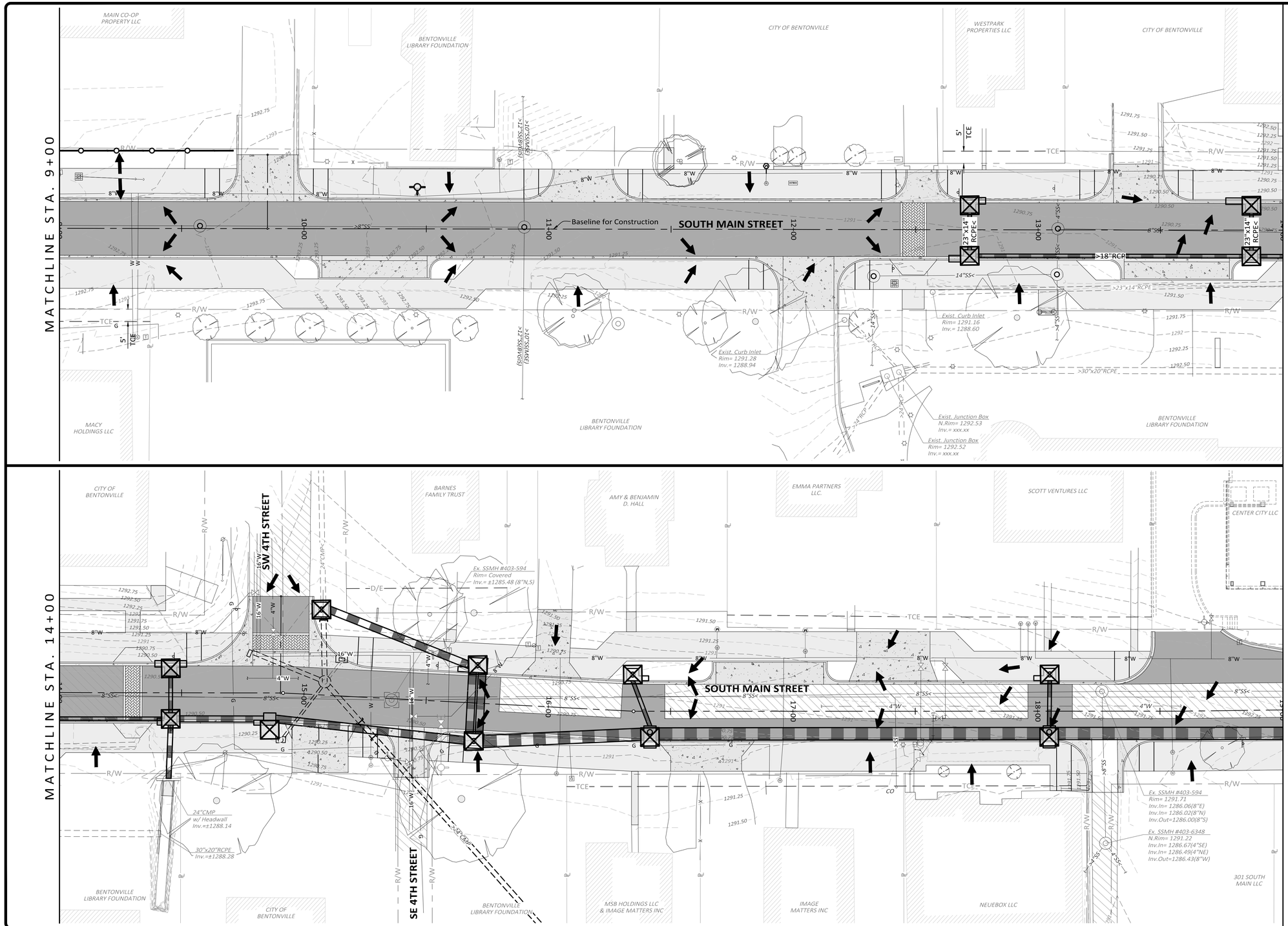
Bentonville, Benton County, Arkansas

EROSION CONTROL PLAN
SOUTH MAIN STREET
(Sta. 1+45 to Sta. 9+00)

Issued for Bidding – 8.15.2021

Sheet No.: 26 of 44

Drawing Name: M:\SDS\PROJ\BTV-04A\1\PRAFTING\BTV-04A BASE.dwg Last Modified: Aug 13, 2021 - 1:37pm Plotted on: Aug 13, 2021 - 1:45pm by dcarreira



Revision	By	Date

MORRISON SHIPLEY
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STATE OF ARKANSAS LICENSED PROFESSIONAL ENGINEER No.10222 BRIAN S. MAURER 8/15/2021

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Project No.:	BTV-04A

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Horizontal Scale:	1"=20'
Plotting Scale:	1
City Project No.	PIIP20-0002

SOUTH MAIN STREET IMPROVEMENTS

(SW 8th Street to SW 2nd Street)

Bentonville, Benton County, Arkansas

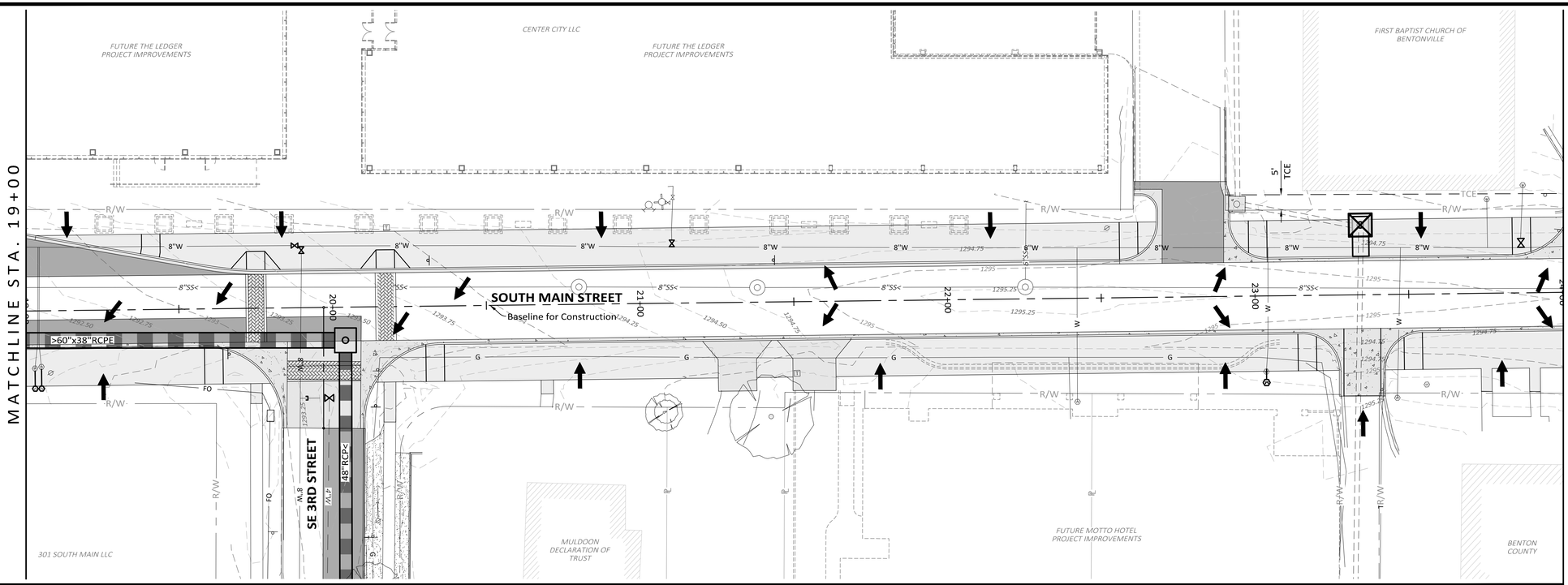
EROSION CONTROL PLAN
SOUTH MAIN STREET
(Sta. 9+00 to Sta. 19+00)

Issued for Bidding – 8.15.2021

Sheet No.: 27 of 44

Drawing Name: M:\SDSKPROJ\BTV-04A\DRAFTING\BTV-04A BASE.dwg Last Modified: Aug 13, 2021 - 1:37pm Plotted on: Aug 13, 2021 - 1:46pm by dzarrera

MATCHLINE STA. 19+00



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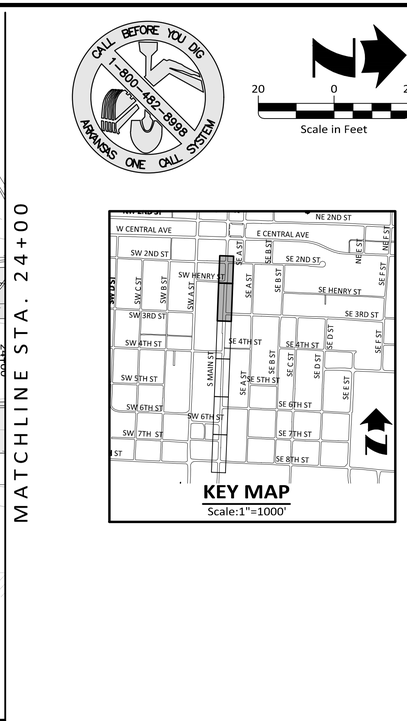
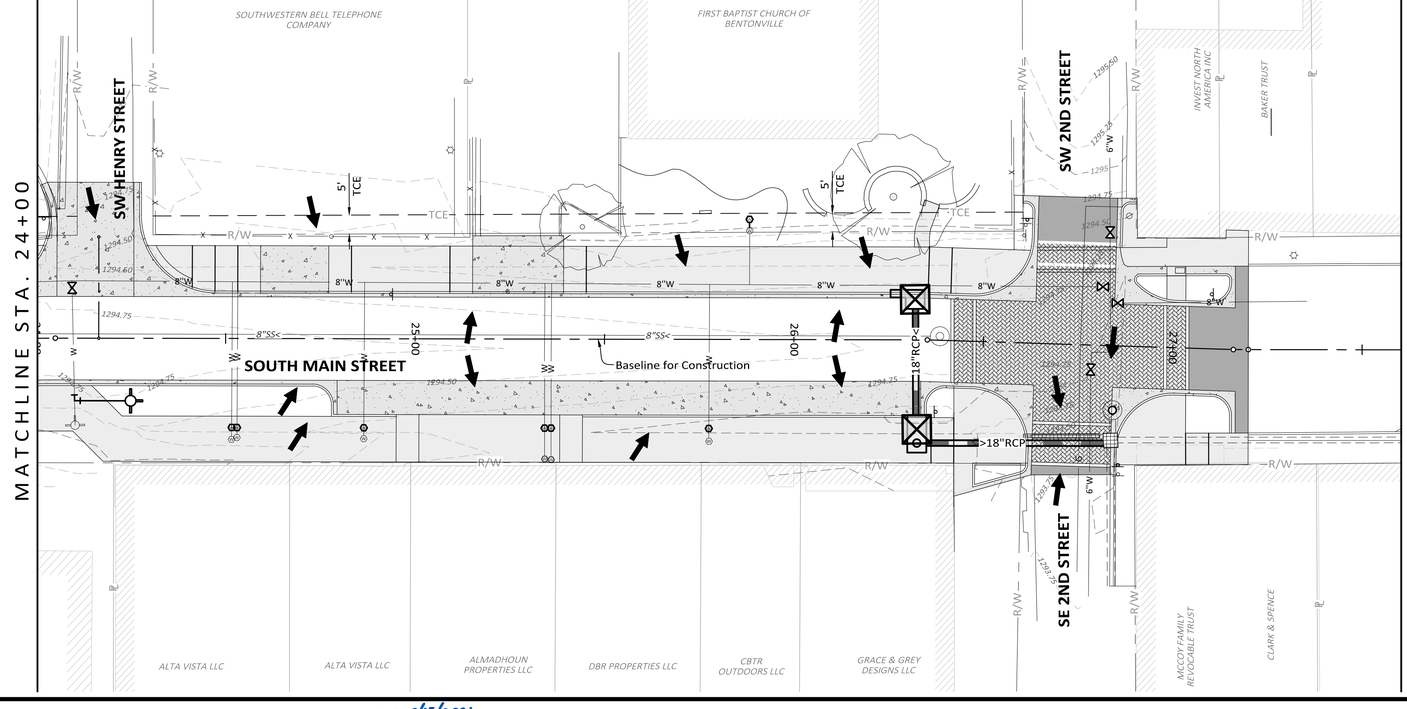


CALL BEFORE YOU DIG 1-800-482-8998 ARKANSAS ONE CALL SYSTEM

20 0 20
Scale in Feet

MATCHLINE STA. 24+00



Revision	By	Date

MORRISON SHIPLEY

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STATE OF ARKANSAS
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No.10222
BRIAN S. MAURER
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SOUTH MAIN STREET IMPROVEMENTS

(SW 8th Street to SW 2nd Street)

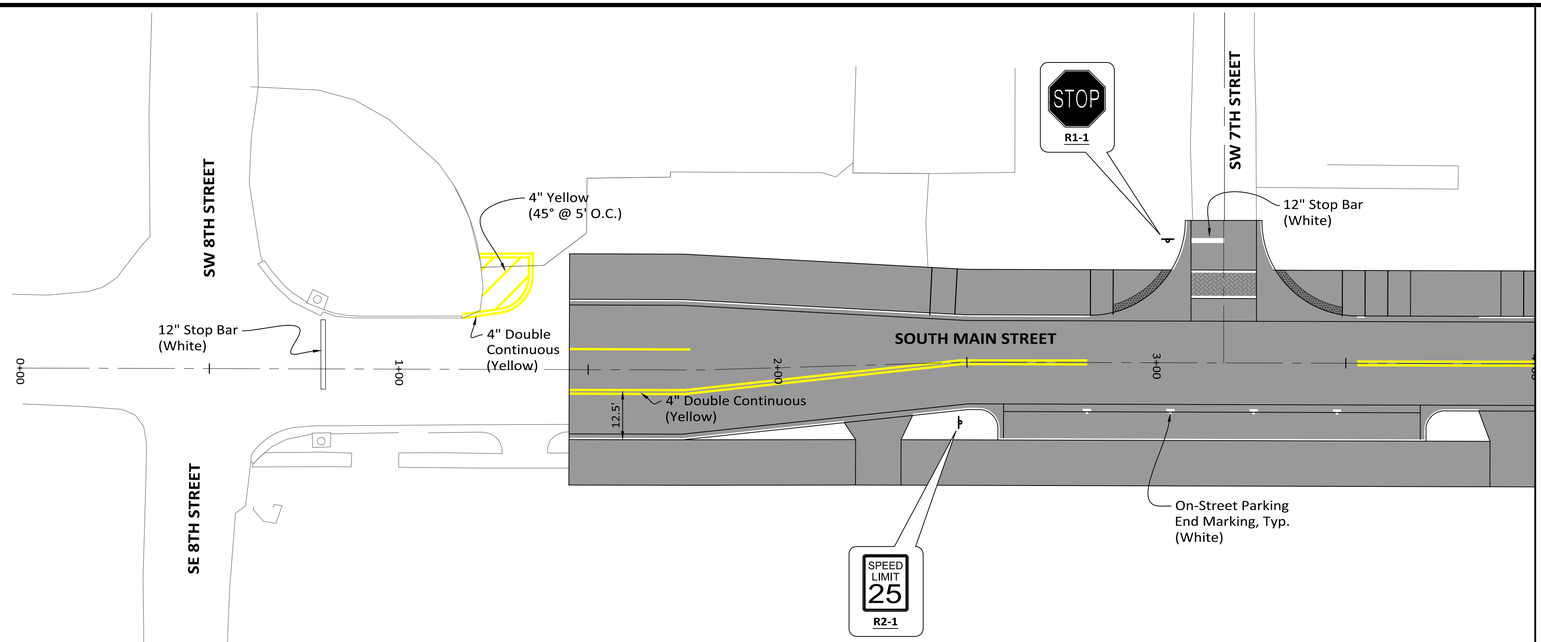
Bentonville, Benton County, Arkansas

EROSION CONTROL PLAN
SOUTH MAIN STREET
(Sta. 19+00 to Sta. 27+19.97)

Issued for Bidding – 8.15.2021

Sheet No.: 28 of 44

Drawing Name: M:\SDOX\PROJ\BTV-04A\DRA\FTM\BTV-04A BASE.dwg Last Modified: Aug 13, 2021 - 1:37pm Plotted on: Aug 13, 2021 - 1:46pm by dcarreira



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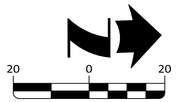
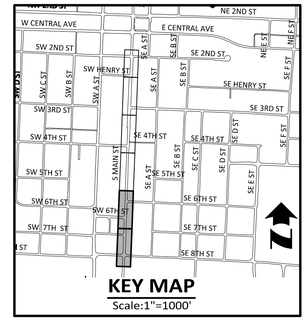
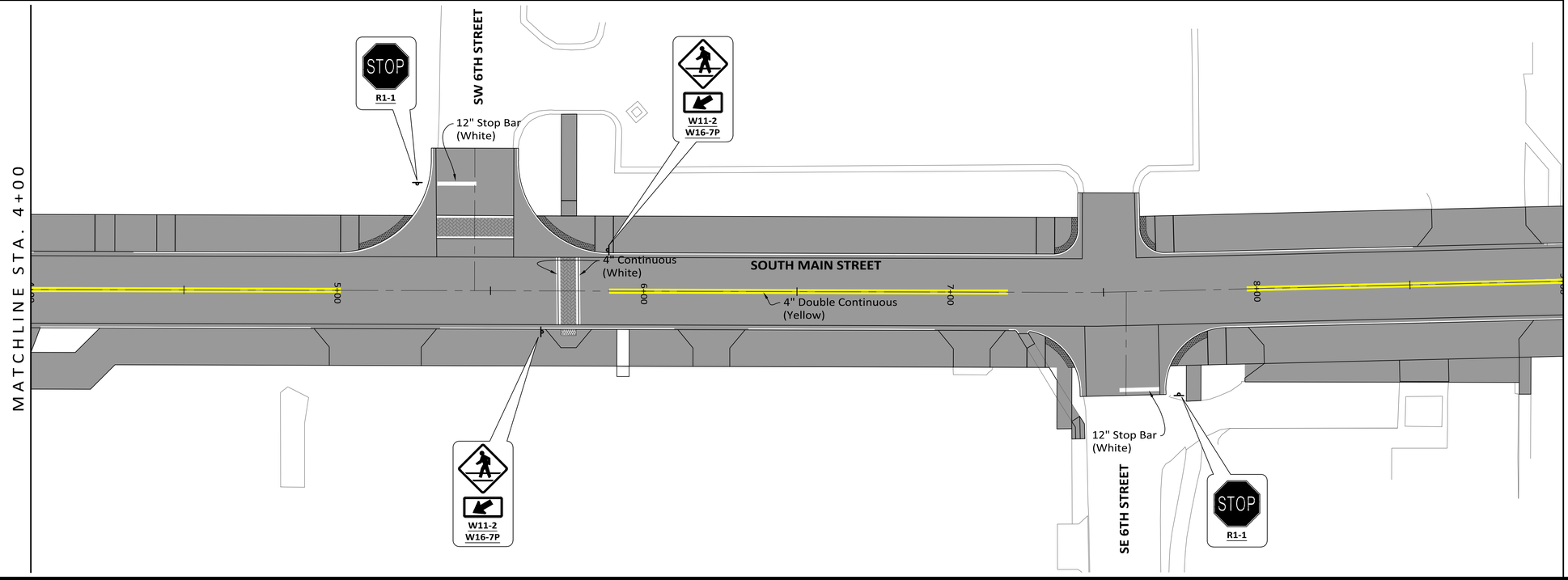




KEY MAP
Scale:1"=1000'

NOTES

1. Unless Otherwise Noted, All Pavement Markings Shall Be Thermoplastic.
2. Contractor Shall Salvage And Return Existing Street Signs To City. Some Existing Signs May Be Reused If Directed By Engineer.



Revision	By	Date

MORRISON SHIPLEY

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STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No.10222
BRIAN S. MAURER
8/15/2021

The Original Signed and Sealed Document is on file at the Office of Record

Drawn By:	JMN
Approved By:	BSM
Date:	8.15.2021
Project No.:	BTV-04A

Vertical Scale:	–
Horizontal Scale:	1"=20'
Plotting Scale:	1
City Project No.	PIIP20-0002

SOUTH MAIN STREET IMPROVEMENTS

(SW 8th Street to SW 2nd Street)

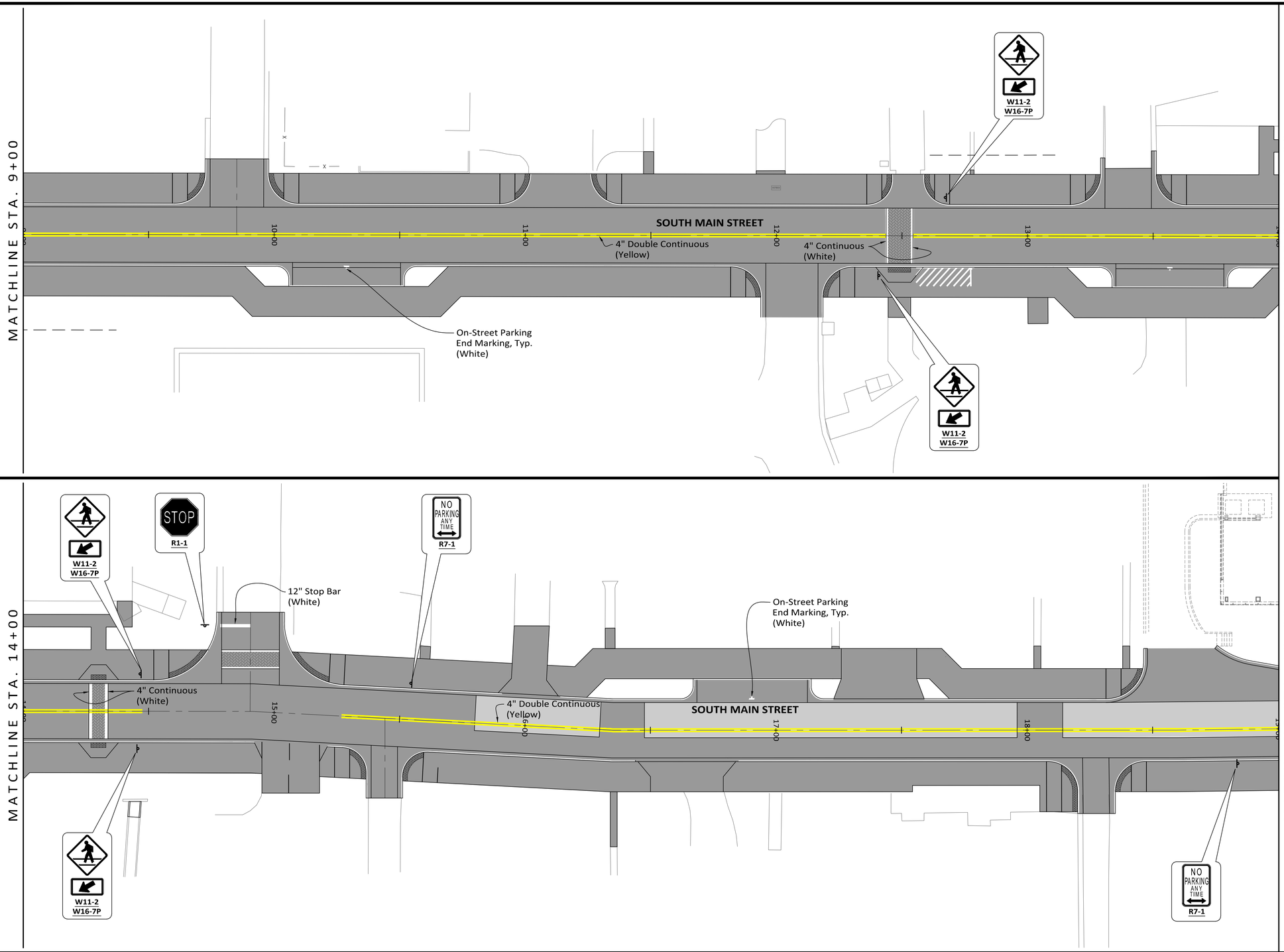
Bentonville, Benton County, Arkansas

MARKING AND SIGNAGE PLAN
SOUTH MAIN STREET
(Sta. 0+80 to Sta. 9+00)

Issued for Bidding – 8.15.2021

Sheet No.: 29 of 44

Drawing Name: M:\SOSKPROJ\BTV-04A\04ASTTNG\BTV-04A BASE.dwg Last Modified: Aug 13, 2021 - 1:37pm Plotted on: Aug 13, 2021 - 1:46pm by dzarreira



CALL BEFORE YOU DIG
1-800-482-8998
ARKANSAS ONE CALL SYSTEM

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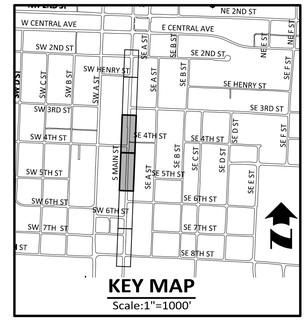
Scale in Feet



KEY MAP
Scale:1"=1000'

Revision	By	Date

MORRISON SHIPLEY
2407 SE COTTONWOOD STREET • BENTONVILLE, AR 72712 • 479.273.2209 • MORRISONSHIPLEY.COM

STATE OF ARKANSAS
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Plotting Scale:	1
City Project No.	PIIP20-0002

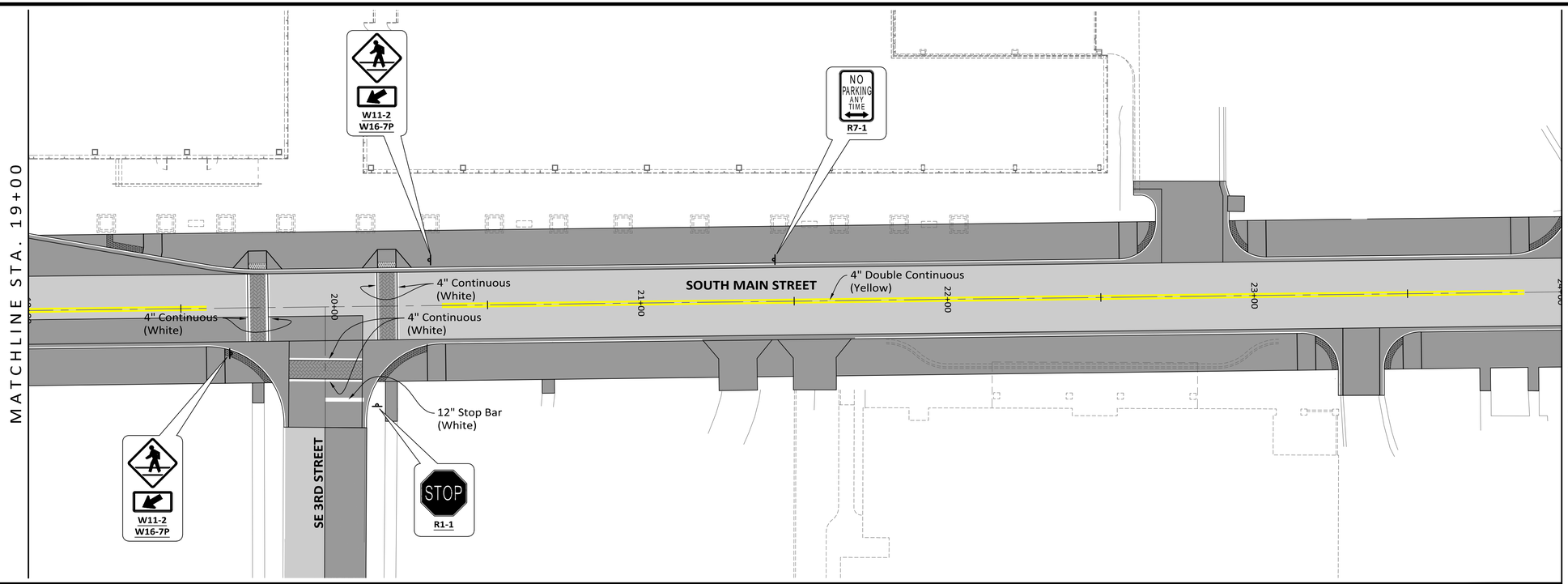
SOUTH MAIN STREET IMPROVEMENTS
(SW 8th Street to SW 2nd Street)
Bentonville, Benton County, Arkansas

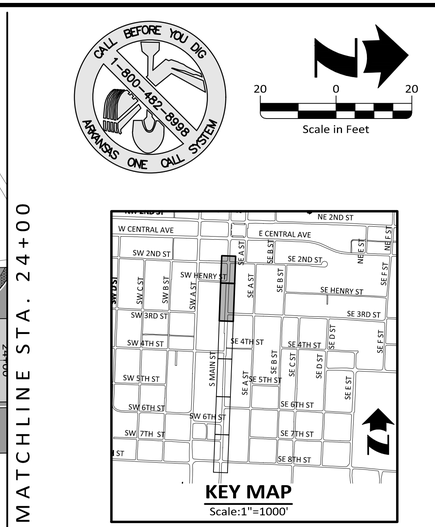
MARKING AND SIGNAGE PLAN
SOUTH MAIN STREET
(Sta. 9+00 to Sta. 19+00)

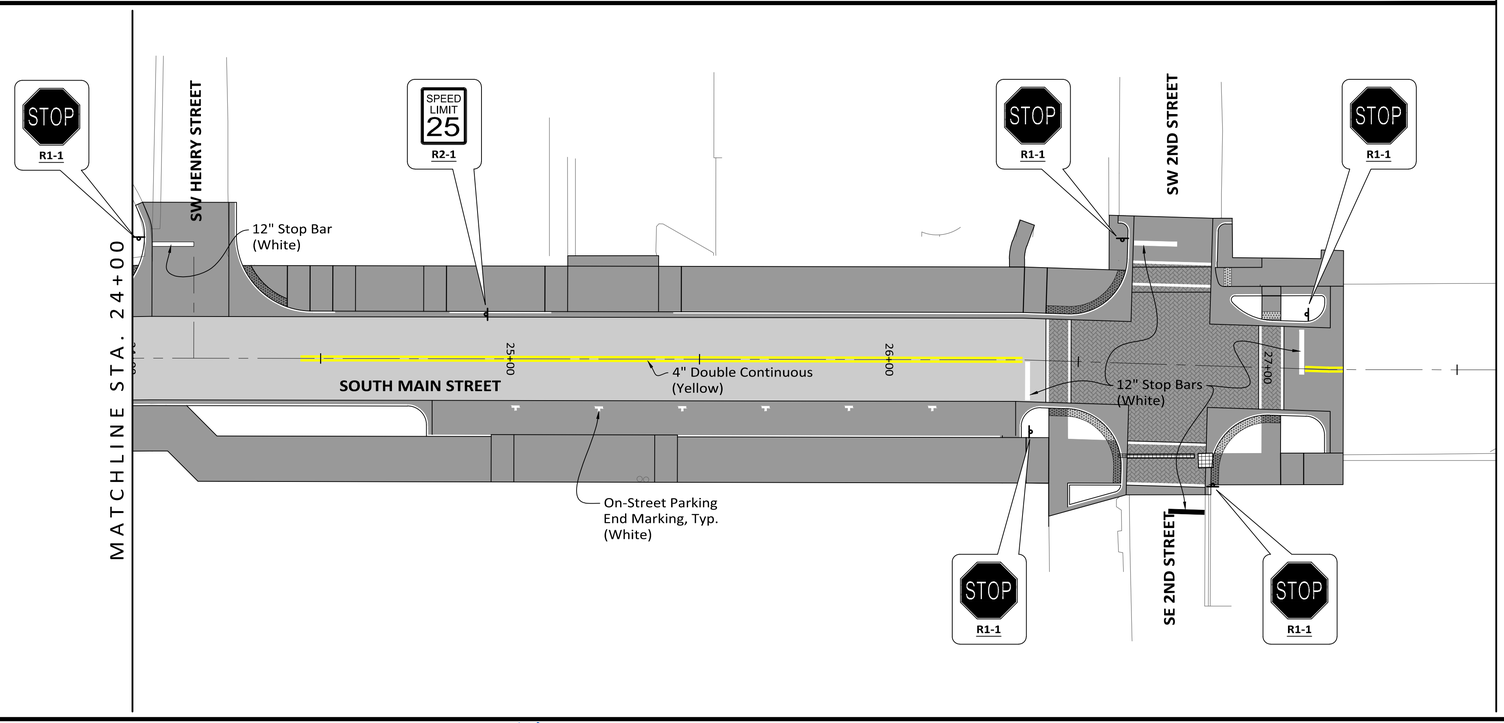
Issued for Bidding – 8.15.2021

Sheet No.: 30 of 44

Drawing Name: M:\0SK\PROJ\BTV-04A\0\04ATTNO\BTV-04A-BASE.dwg Last Modified: Aug 13, 2021 - 1:37pm Plotted on: Aug 13, 2021 - 1:46pm by dzarrera







Revision	By	Date

MORRISON SHIPLEY
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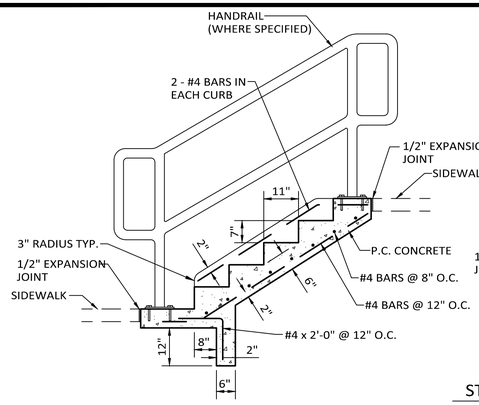
SOUTH MAIN STREET IMPROVEMENTS
(SW 8th Street to SW 2nd Street)
Bentonville, Benton County, Arkansas

MARKING AND SIGNAGE PLAN
SOUTH MAIN STREET
(Sta. 19+00 to Sta. 27+19.97)

Issued for Bidding – 8.15.2021

Sheet No.: 31 of 44

Drawing Name: M:\SDOXPROJ\BTV-04A\DRAFTING\BTV-04A BASE.dwg Last Modified: Aug 13, 2021 - 1:37pm Plotted on: Aug 13, 2021 - 1:46pm by dzarrella



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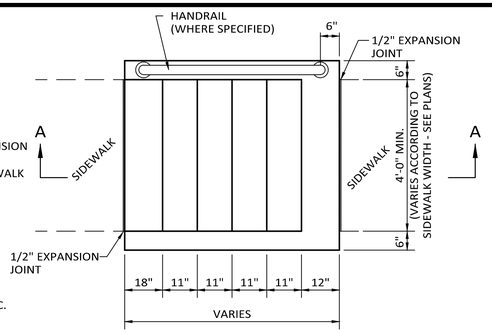
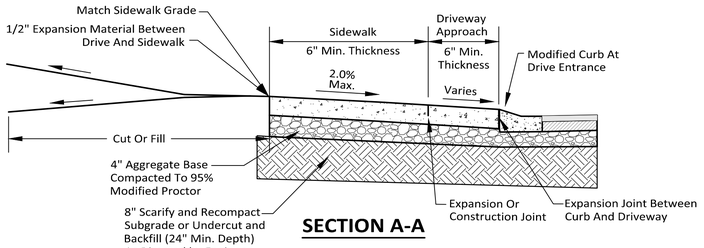


PLAN VIEW

STEPS
N.T.S.
SW.1.5



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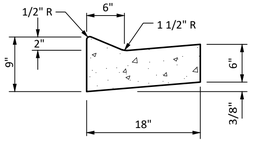
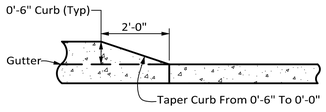


MODIFIED CURB & GUTTER
Not to Scale



TAPER CURB DETAIL
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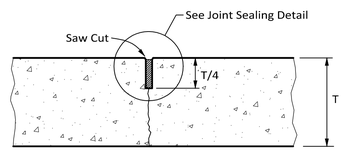

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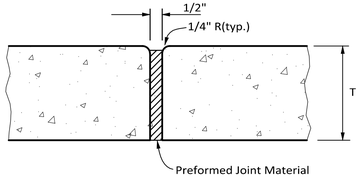
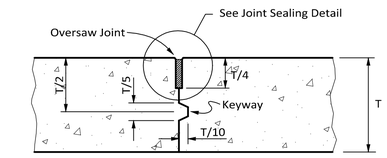


EXPANSION JOINT
Not to Scale



CONSTRUCTION JOINT WITH KEYWAY
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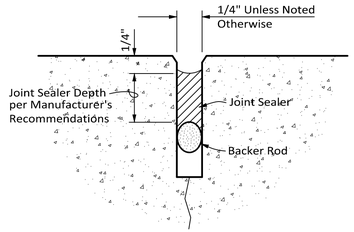

JOINT SEALING DETAIL
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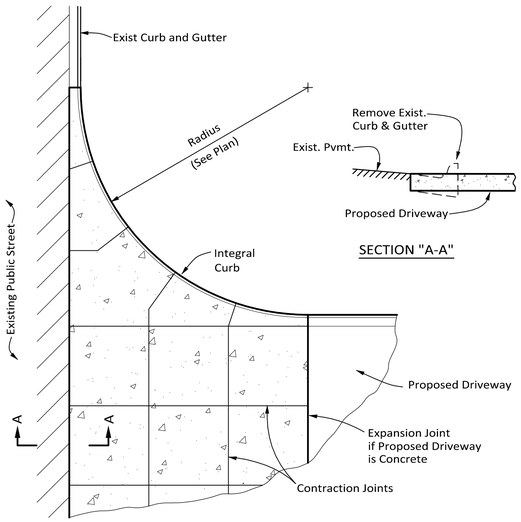
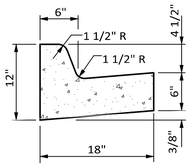
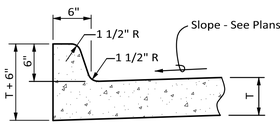


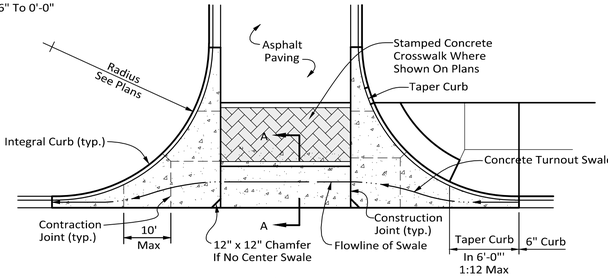
PS-120: CONCRETE DRIVEWAY APRON
Not to Scale
02-01-18



TYPE "A" CURB & GUTTER
Not to Scale

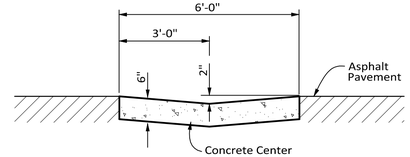


ST-40: INTEGRAL CURB FOR CONC. PAVING
Not to Scale
02-01-18



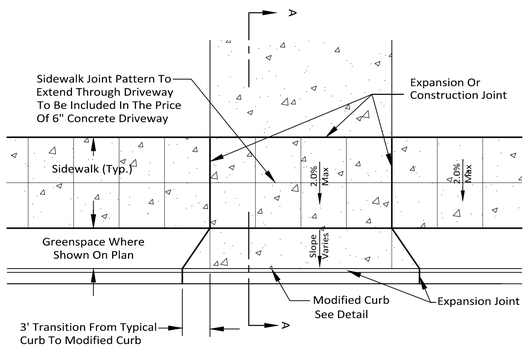
PLAN

NOTE:
Construction and Materials for Turnout and Center Swales Shall Conform to the Requirements for Portland Cement Concrete Pavement.



SECTION "A-A"

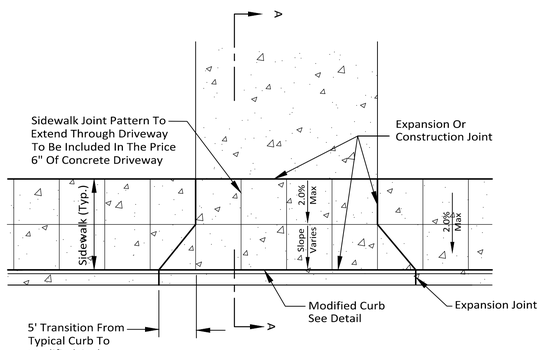
ST-50: TURNOUT & CENTER SWALE DETAIL
Not to Scale
02-01-18



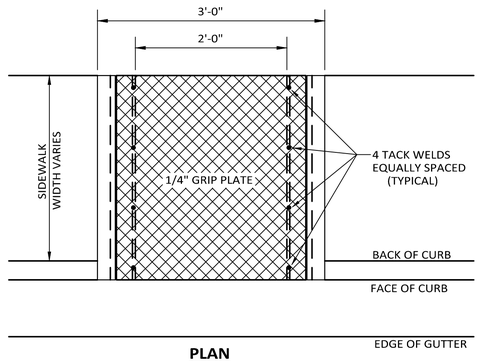
DRIVEWAY DETAIL-TYPE B
Not to Scale

DRIVEWAY NOTES:

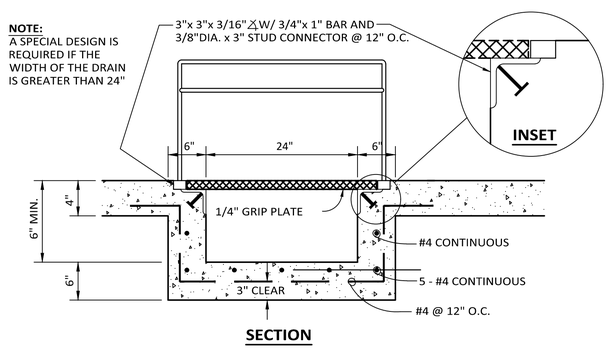
1. 1/2" Preformed Expansion Material Conforming To ASTM D1751 Shall Be Placed As Shown, Or As Directed By The Engineer.
2. Concrete Curb To Be Sawcut At 15' Intervals Perpendicular To The Gutter Line And Sealed. See Detail.
3. Contraction Joints To Be Placed In Concrete Driveway So That No Slab Dimension Is More Than 15'.
4. Concrete Driveways To Be Class AA, 3500 PSI.
5. All Sidewalks And Curb Cuts For Driveway Approaches Require An Inspection Prior To Concrete Placement.
6. All Sidewalks And Driveway Approaches Shall Be Constructed With A Broom Finish.
7. All Sidewalks And Driveway Approaches Require The Application Of A Concrete Curing Compound.



DRIVEWAY DETAIL-TYPE C
Not to Scale



PLAN



SECTION

SIDEWALK DRAIN DETAIL
Not to Scale

Revision	By	Date

MORRISON SHIPLEY

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STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
BRIAN S. MAURER
No.10222
8/15/2021

The Original Signed and Sealed Document is on File at the Office of Record

Drawn By:	JMN
Approved By:	BSM
Date:	8.15.2021
Project No.:	BTV–04A

Vertical Scale:	–
Horizontal Scale:	?
Plotting Scale:	1
City Project No.	PIIP20–0002

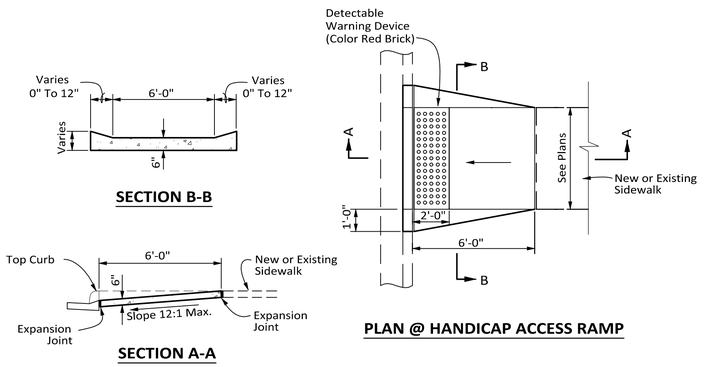
SOUTH MAIN STREET IMPROVEMENTS
(SW 8th Street to SW 2nd Street)
Bentonville, Benton County, Arkansas

PAVING DETAILS

Issued for Bidding – 8.15.2021

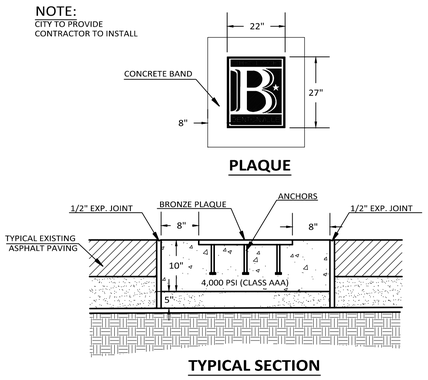
Sheet No.: 32 of 44

Drawing Name: M:\SOS\KPROJ\BTV-04A\DRAFTING\BTV-04A BASE.dwg Last Modified: Aug 13, 2021 - 1:37pm Plotted on: Aug 13, 2021 - 1:46pm by dzamora



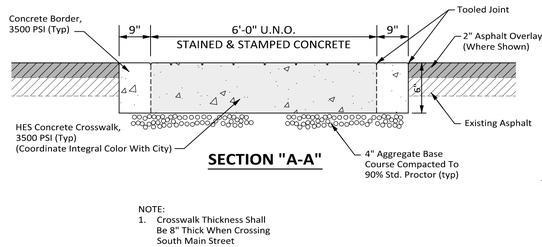
HANDICAP SIDEWALK RAMP - TYPE "A"

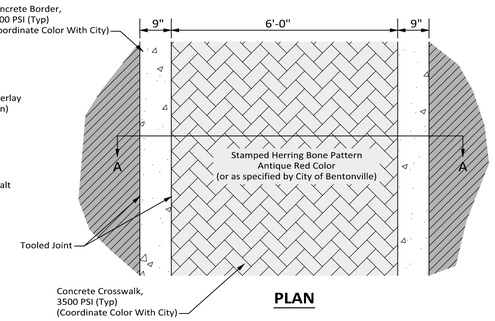
Not to Scale



BRONZE "B" PLAQUE

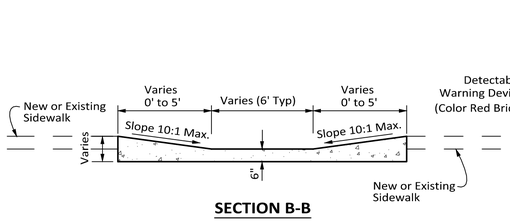
Not to Scale

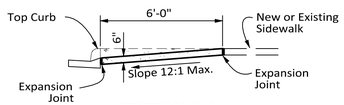


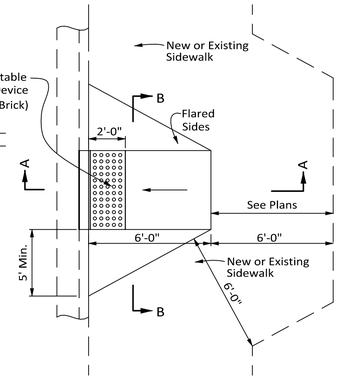


STAMPED CONCRETE CROSSWALK

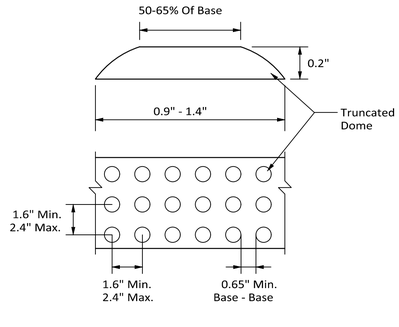
Not to Scale







HANDICAP SIDEWALK RAMP - TYPE "B"

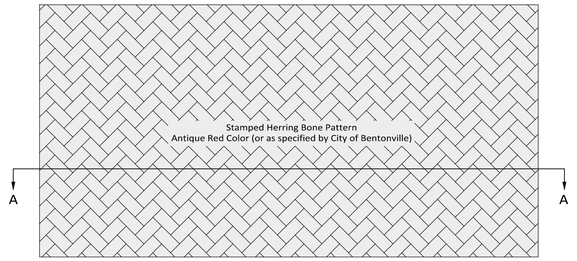


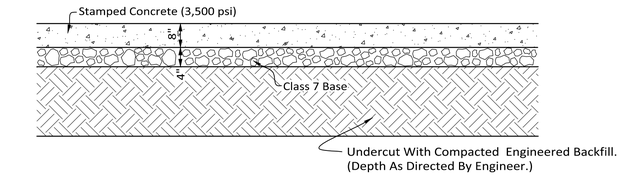
NOTES:

1. The Detectable Warning Device Shall Be Located So That The Nearest Edge Of The Device Is 6 To 8 Inches From The Face Of The Curb.
2. Truncated Domes In The Detectable Warning Surface Shall Meet The Requirements Of The Geometric Configuration Shown.
3. Domes Shall Be Aligned On A Square Grid In The Predominant Direction Of Travel To Permit Wheels To Roll Between Domes.
4. Detectable Warning Device Shall Be 24 Inches In The Direction Of Travel And Extend The Full Width Of The Curb Ramp Or Flush Surface.

DETECTABLE WARNING DEVICE

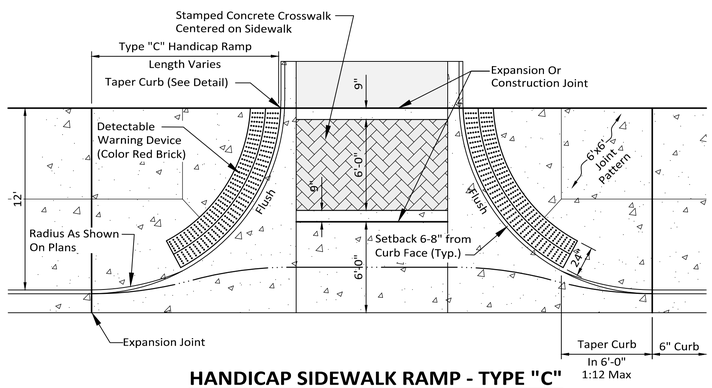
Not to Scale





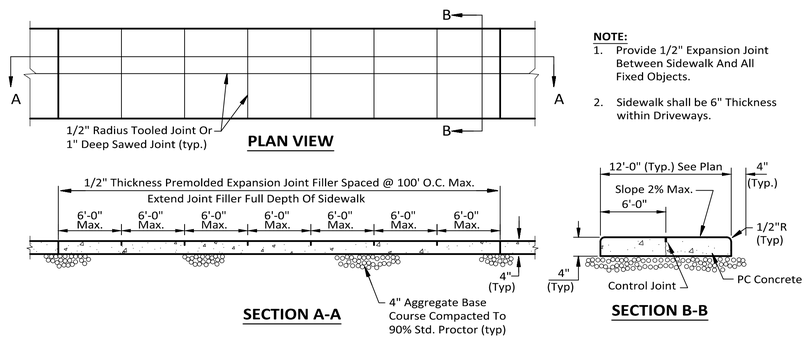
STAMPED CONCRETE PAVEMENT (SO. MAIN ST. & 2ND ST.)

N.T.S.



HANDICAP SIDEWALK RAMP - TYPE "C" and INTERSECTION CROSSWALK DETAIL

Not to Scale



NOTE:

1. Provide 1/2" Expansion Joint Between Sidewalk And All Fixed Objects.
2. Sidewalk shall be 6" Thickness within Driveways.

CONCRETE SIDEWALK

Not to Scale

Revision	By	Date

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STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No.10222
BRIAN S. MAURER
8/5/2021

The Original Signed and Sealed Document is on file at the Office of Record

Drawn By:	JMN
Approved By:	BSM
Date:	8.15.2021
Project No.:	BTV-04A

Vertical Scale:	–
Horizontal Scale:	?
Plotting Scale:	1
City Project No.	PIIP20-0002

SOUTH MAIN STREET IMPROVEMENTS

(SW 8th Street to SW 2nd Street)

Bentonville, Benton County, Arkansas

PAVING DETAILS

Issued for Bidding – 8.15.2021

Sheet No.: 33 of 44

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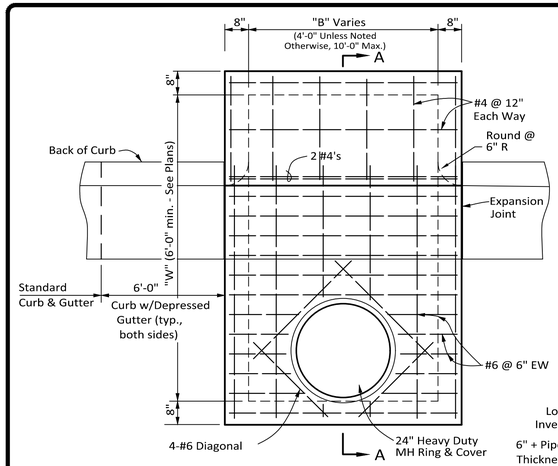
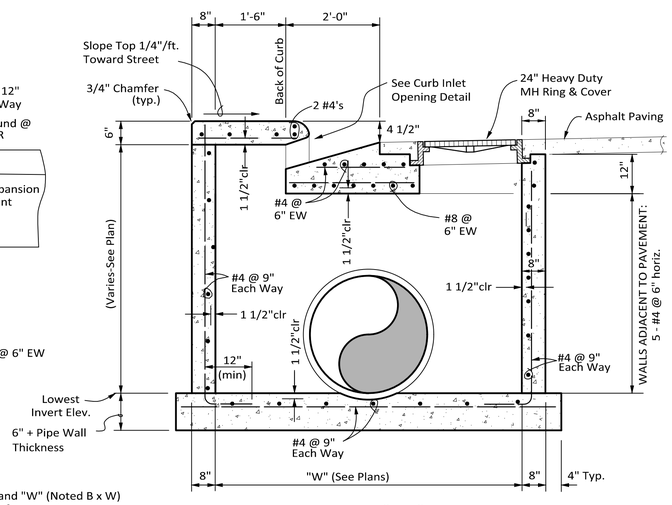


PLAN

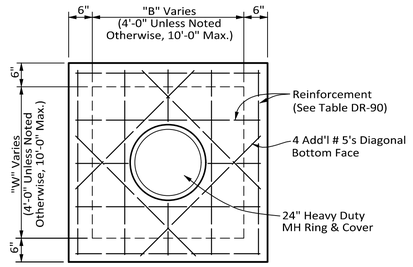


SECTION "A-A"

NOTES:
1. See Plans for Dimensions "B" and "W" (Noted B x W)
2. See Detail for Wall Corner Reinforcement

DR-11: REVERSE CURB INLET "A"

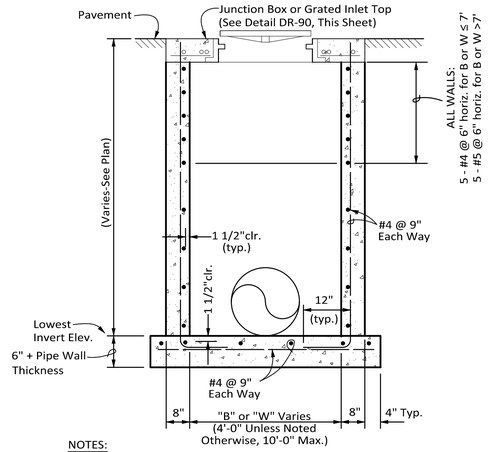
Not to Scale



NOTES:
1. See Plans for Dimensions "B" and "W" (Noted B x W)
2. See Table for Top Thickness and Reinforcing (DR-90)
3. Exposed Edges Shall Have 3/4" Chamfer

DR-70: JUNCTION BOX TOP

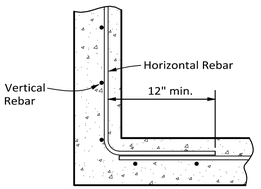
Not to Scale
02-01-18



NOTES:
1. See Plans for Dimensions "B" and "W" (Noted B x W)
2. Wall Reinforcement for Wall Adjacent to Pavement and Top Shall Be as Indicated. All Other Reinforcing Shall be #4 bars at 9" Each Way.
3. See Detail for Wall Corner Reinforcement

DR-50: JUNCTION BOX or GRATED INLET IN PAVEMENT

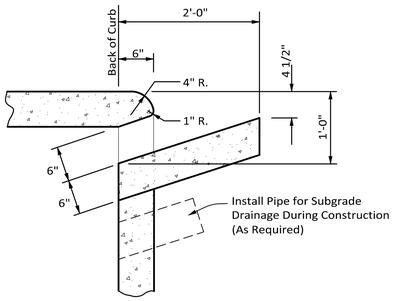
Not to Scale
02-01-18



NOTE:
Horizontal Rebar
Shall be Continuous
Around Corners or
Lapped as Shown.

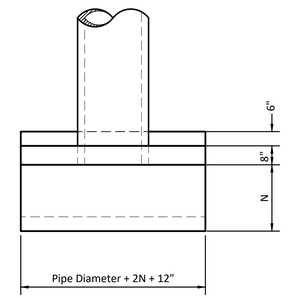
DR-100: PLAN - JUNCTION BOX, GRATED INLET or CURB INLET WALL CORNER REINFORCING

Not to Scale
02-01-18



DR-40: CURB INLET OPENING DETAIL

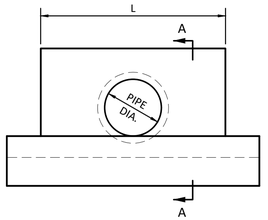
Not to Scale
02-01-18



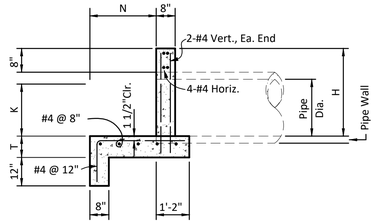
PLAN VIEW

DIMENSIONS					
I.D.	T	H	K	L	N
12"	9"	2'-2"	1'-1"	3'-8"	1'-6"
15"	9"	2'-5"	1'-3"	4'-0"	1'-6"
18"	9"	2'-8"	1'-7"	4'-2"	1'-6"
24"	9"	3'-2"	1'-10"	4'-8"	2'-0"
30"	10"	3'-8"	2'-1"	5'-4"	2'-6"
36"	10"	4'-2"	2'-4"	5'-10"	3'-0"
42"	10"	4'-8"	2'-8"	6'-4"	3'-6"
48"	12"	5'-5"	3'-2"	6'-10"	4'-0"

Notes:
1. All Concrete Shall Be Class "AA", 3,500 psi.
2. All Exposed Concrete Shall Have A Grout Cleaned Finish.
3. All Exposed Corners To Be Chamfered 3/4".
4. 2" Diameter Weep Holes Shall Be Installed 4'-0" O.C. At Bottom Of Headwalls.
5. High Point Of Headwall Shall Not Project More Than 3" Above Slope.



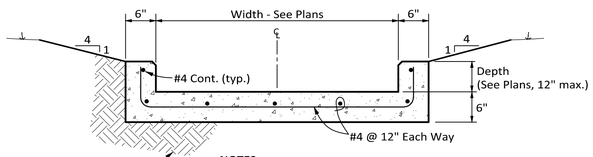
ELEVATION



SECTION "A-A"

DR-145: SINGLE PIPE HEADWALL WITH NO WINGWALLS

Not To Scale



NOTES:
1. Transverse control joints shall be placed at 6'-0" O.C. Transverse expansion joints shall be placed every 100'.
2. Provide 3/4" chamfer on all exposed edges.
3. All exposed concrete shall have a rubbed or broomed finish.
4. All excavations and finished grading necessary to construct the channel shall be considered incidental to channel construction.

"U" SHAPED CONCRETE CHANNEL

Not to Scale

TOP REINFORCING FOR INLETS & JUNCTION BOXES For Locations Subject to Traffic Loading (HS-20)			
B or W	Thickness	Short Span Reinforcing	Long Span Reinforcing
Up to 4'0"	10"	#6 @ 5"	#4 @ 9"
4'1" to 5'0"	10"	#7 @ 5"	#4 @ 9"
5'1" to 7'0"	12"	#7 @ 5"	#4 @ 9"
7'1" to 9'0"	12"	#8 @ 5"	#4 @ 9"
9'1" to 10'0"	13"	#8 @ 5"	#4 @ 9"

TOP REINFORCING FOR INLETS & JUNCTION BOXES For Locations NOT Subject to Traffic Loading			
Max. Span (B or W)	Thickness	Short Span Reinforcing	Long Span Reinforcing
Up to 7'0"	6"	#4 @ 9"	#4 @ 9"
7'1" to 8'0"	6"	#4 @ 9"	#4 @ 9"
8'1" to 9'0"	6"	#4 @ 8"	#4 @ 9"
9'1" to 10'0"	6"	#4 @ 6"	#4 @ 9"

DR-90: JUNCTION BOX or GRATED INLET TOP REINFORCING

Not to Scale
02-01-18

Revision	By	Date

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Plotting Scale:	1
City Project No.	PIIP20-0002

SOUTH MAIN STREET IMPROVEMENTS

(SW 8th Street to SW 2nd Street)

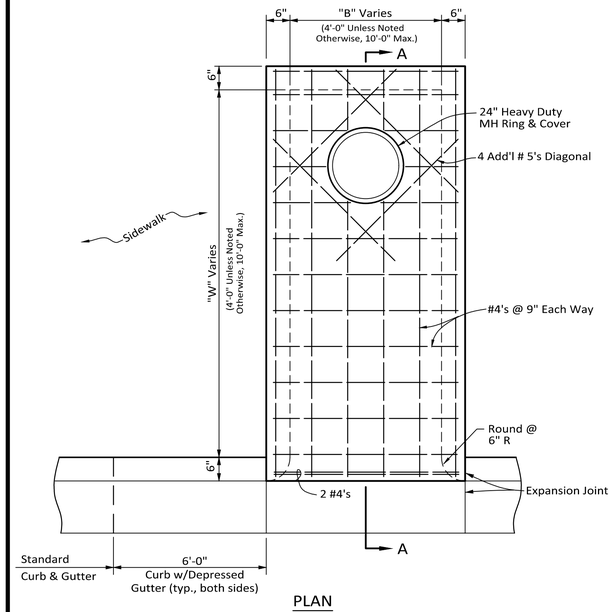
Bentonville, Benton County, Arkansas

DRAINAGE DETAILS

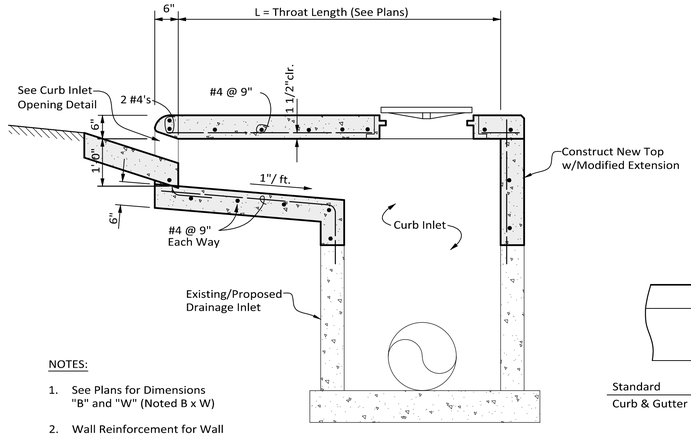
Issued for Bidding – 8.15.2021

Sheet No.: 34 of 44

Drawing Name: M:\SDSKPROJ\BTV-04A\DRAFTING\BTV-04A BASE.dwg Last Modified: Aug 13, 2021 - 1:37pm Plotted on: Aug 13, 2021 - 1:46pm by dzanera



PLAN



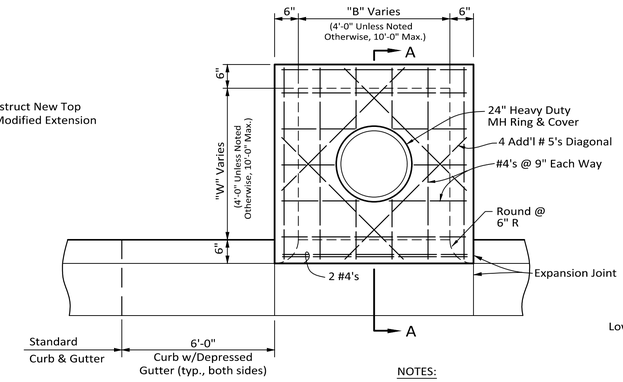
NOTES:

1. See Plans for Dimensions "B" and "W" (Noted B x W)
2. Wall Reinforcement for Wall Adjacent to Pavement and Top Shall Be as Indicated. All Other Reinforcing Shall be #4 bars at 9" Each Way.
3. See Detail for Wall Corner Reinforcement

SECTION "A-A"

RECONSTRUCTED CURB INLET w/EXTENSION

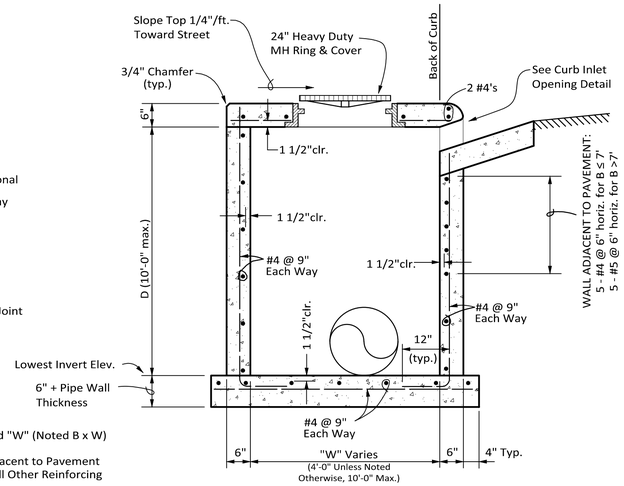
Not to Scale
02-01-18



PLAN

NOTES:

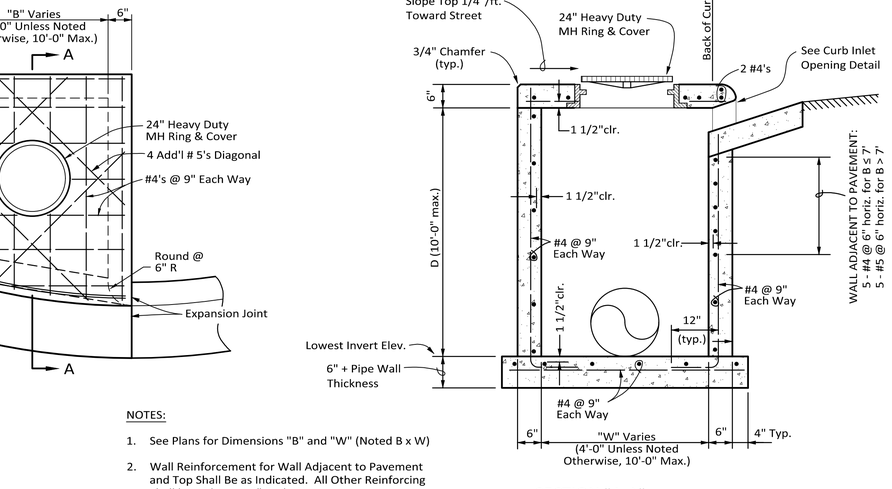
1. See Plans for Dimensions "B" and "W" (Noted B x W)
2. Wall Reinforcement for Wall Adjacent to Pavement and Top Shall Be as Indicated. All Other Reinforcing Shall be #4 bars at 9" Each Way.
3. See Detail for Wall Corner Reinforcement



SECTION "A-A"

DR-10: CURB INLET

Not to Scale
02-01-18



PLAN

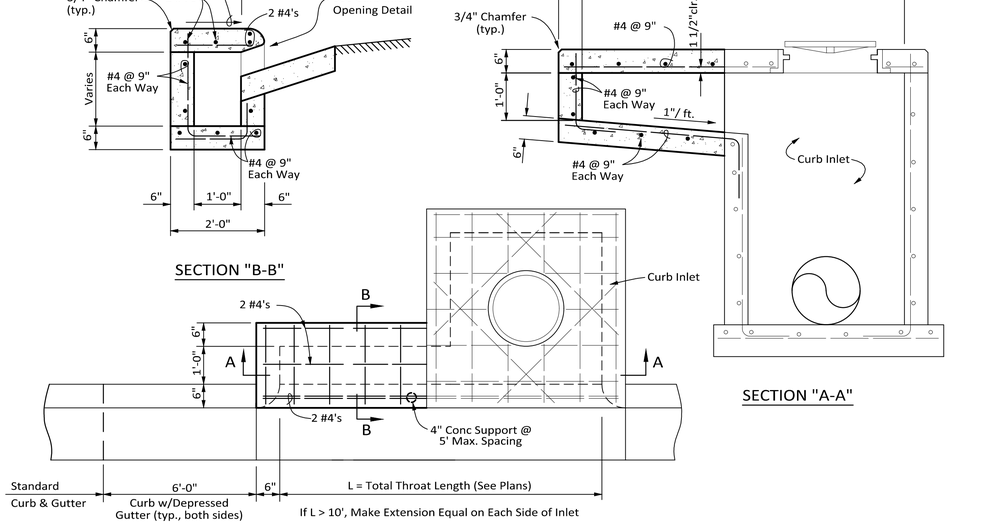
NOTES:

1. See Plans for Wall Reinforcement for Wall Adjacent to Pavement and Top Shall Be as Indicated. All Other Reinforcing Shall be #4 bars at 9" Each Way.
2. See Detail for Wall Corner Reinforcement

SECTION "A-A"

DR-20: CORNER CURB INLET

Not to Scale
02-01-18



SECTION "B-B"

SECTION "A-A"

PLAN

DR-30: CURB INLET EXTENSION

Not to Scale
02-01-18

Revision	By	Date

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STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No.10222
BRIAN S. MAURER
8/15/2021

The Original Signed and Sealed Document is on File at the Office of Record

Drawn By:	JMN
Approved By:	BSM
Date:	8.15.2021
Project No.:	BTV-04A

Vertical Scale:	–
Horizontal Scale:	?
Plotting Scale:	1
City Project No.	PIIP20-0002

SOUTH MAIN STREET IMPROVEMENTS

(SW 8th Street to SW 2nd Street)

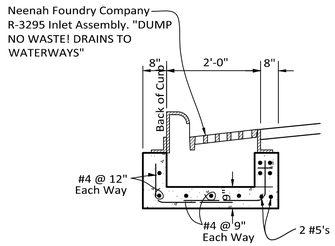
Bentonville, Benton County, Arkansas

DRAINAGE DETAILS

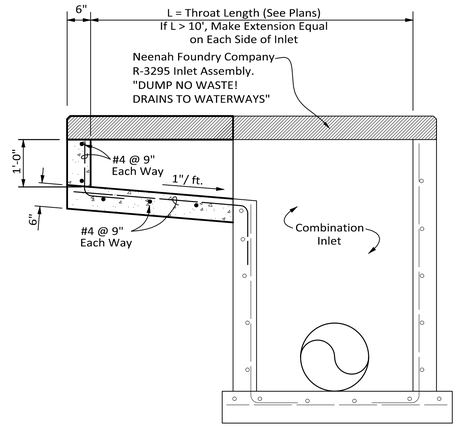
Issued for Bidding – 8.15.2021

Sheet No.: 35 of 44

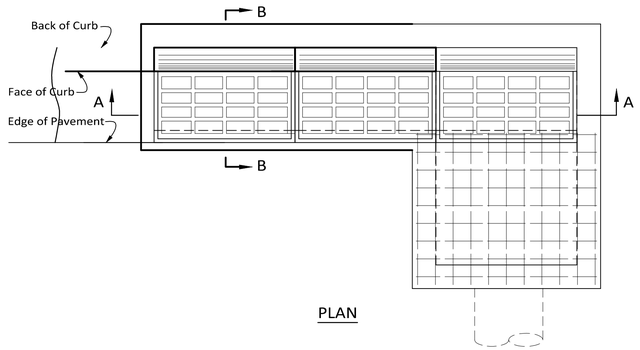
Drawing Name: M:\SOS\PROJ\BTV-04A\DRAFTING\BTV-04A BASE.dwg Last Modified: Aug 13, 2021 - 1:37pm Plotted on: Aug 13, 2021 - 1:46pm by dzarneira



SECTION "B-B"



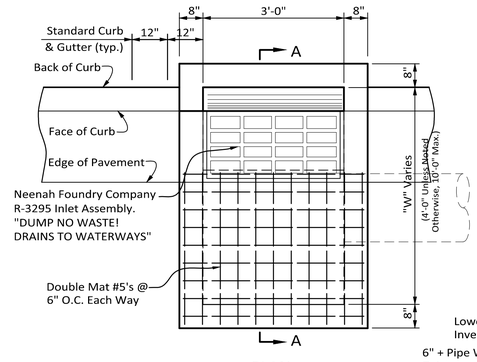
SECTION "A-A"



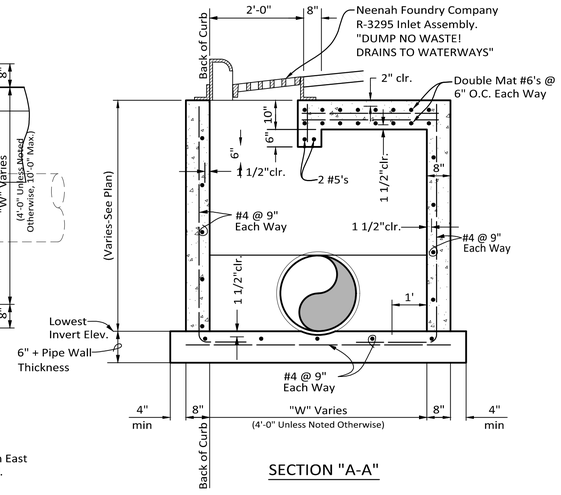
PLAN

COMBINATION INLET EXTENSION

Not to Scale



PLAN



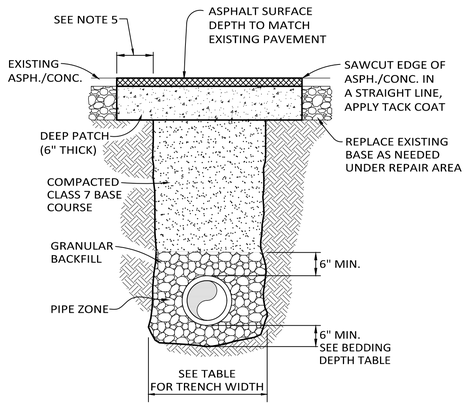
SECTION "A-A"

NOTES:

1. See Plans for Dimension "W".
2. Cast Iron Curb Inlet Grate and Frame to be an East Jordan Iron Works V-4060 or approved equal.
3. See Detail for Wall Corner Reinforcement

DR-14: COMBINATION INLET - TYPE "B"

Not to Scale



TRENCH BACKFILL & REPAIR
ASPHALT AREAS

N.T.S.

TB.1.2

NOTES:

1. CONCRETE REPAIRS SHALL NOT BE OPENED FOR TRAFFIC FOR A PERIOD OF NOT LESS THAN 72 HOURS FOLLOWING PLACEMENT. BRIDGE PLATES SHALL BE USED TO PROTECT CONCRETE ON ANY LANES REQUIRED TO BE OPENED.
2. NO STONES OR LUMPS GREATER THAN 3" PERMITTED IN TRENCH 2' OR LESS IN WIDTH.
3. BEDDING, BACKFILL AND COMPACTION WITH NATIVE MATERIALS IS CONSIDERED INCIDENTAL TO THE PIPE OR STRUCTURE ITEM.
4. GRANULAR BACKFILL AND BEDDING SHALL BE 3/4" MAX. TO NO. 4 MATERIAL PER THE SPECIFICATIONS.
5. SURFACE PATCH AND DEEP PATCH SHALL EXTEND A MINIMUM OF 18" OUTSIDE EDGE OF EXCAVATION. FOR CONCRETE PAVEMENT AND APRONS, SAWCUTS WITHIN 5 FEET OF AN EXISTING JOINT SHALL BE REMOVED AND REPLACED TO THE EXISTING JOINT. FOR ALL ASPHALT STREETS, IF THE SAWCUT IS WITHIN 3 FEET OF THE EDGE OF THE EXISTING ASPHALT CONCRETE SURFACE OR OTHER PATCH, THE EXISTING ASPHALT SHALL BE REMOVED TO THAT EDGE AND THE ENTIRE SECTION REPLACED. LONGITUDINAL SAWCUTS SHALL NOT FALL WITHIN 12 INCHES OF THE TIRE PATH.

PIPE ZONE BEDDING DEPTH TABLE

STORM DRAIN
.10 X PIPE I.D. (6" MIN)
WATER LINE
.25 X PIPE I.D. (4" MIN)
SEWER LINE
6" MIN.

TRENCH WIDTH TABLE

STORM DRAIN
OD + 18" MIN. OD + 30" MAX.
WATER LINE
MINIMUM 18" OR OD + 12" OD + 24" MAX.
SEWER LINE
OD + 18" MIN. OD + 30" MAX.

Revision	By	Date

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STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No.10222
BRIAN S. MAUPIN
8/15/2021

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Vertical Scale:	–
Horizontal Scale:	?
Plotting Scale:	1
City Project No.	PIIP20-0002

SOUTH MAIN STREET IMPROVEMENTS

(SW 8th Street to SW 2nd Street)

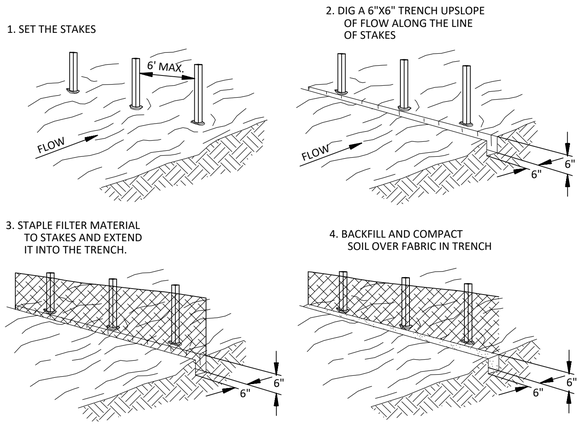
Bentonville, Benton County, Arkansas

DRAINAGE DETAILS

Issued for Bidding - 8.15.2021

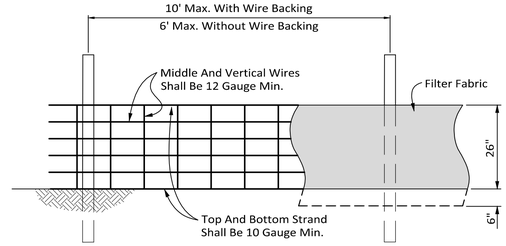
Sheet No.: 36 of 44

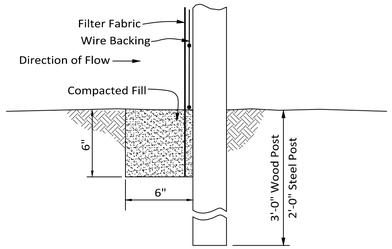
Drawing Name: M:\SDS\PROJ\BTV-04A\DRAFTING\BTV-04A BASE.dwg Last Modified: Aug 13, 2021 - 1:37pm Plotted on: Aug 13, 2021 - 1:47pm by dcarreira



FABRIC FILTER BARRIER/FENCE

N.T.S.

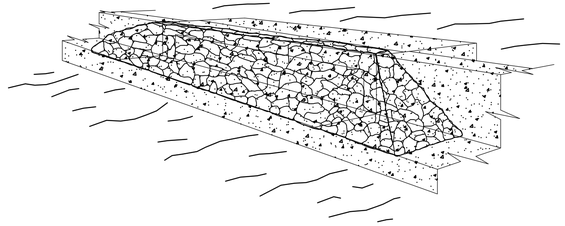


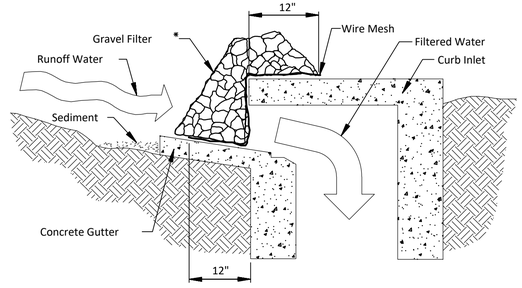


Extension of Fabric Into Trench

EC-12: SILT FENCE

Not to Scale
02-01-18





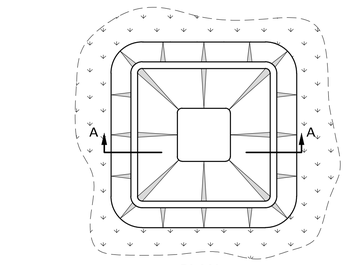
SPECIFIC APPLICATION

This Method of Protection is Applicable at Curb Inlets Where Ponding in Front of the Structure is not Likely to Cause Inconvenience or Damage to Adjacent Structures and Unprotected Areas.

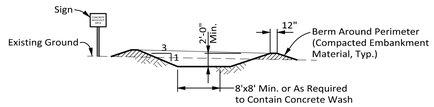
* Gravel Shall be 2"-3" Stone.

TEMPORARY GRAVEL CURB INLET SEDIMENT FILTER

N.T.S.



PLAN



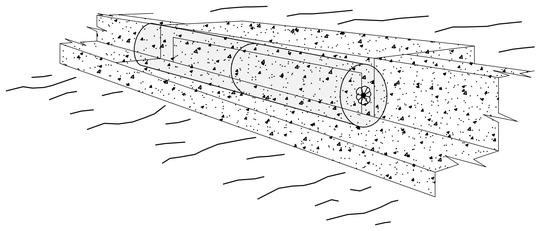
SECTION "A-A"

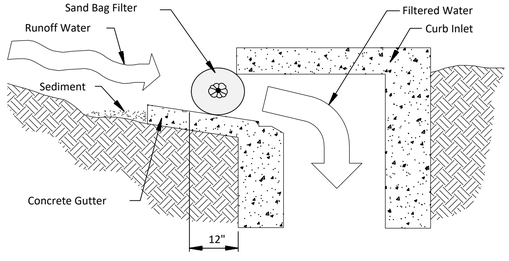
NOTES:

1. Concrete Washout Area Shall be Installed Prior to Any Concrete Placement on Site.
2. Vehicle Tracking Control is Required at Concrete Washout Entrance if Access to Concrete Washout Area is Off Pavement.
3. The Concrete Washout Area Shall Be Repaired and/or Enlarged as Necessary to Maintain Capacity for Waste Concrete.
4. Waste Material From Concrete Washout Operations Must Be Removed and Legally Disposed of When it has Accumulated Two-Thirds of the Wet Storage Capacity of the Structure.
5. At the End of Construction, All Concrete Shall Be Removed From the Site and Legally Disposed of at an Approved Waste Site.
6. When the Concrete Washout Area is Removed, the Disturbed Area Shall Be Seeded and Mulched or Otherwise Stabilized.

EC-50: CONCRETE WASHOUT AREA

Not to Scale
02-01-18



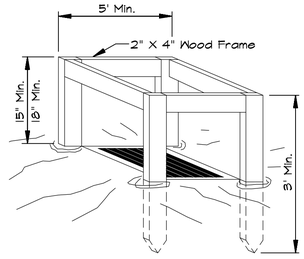


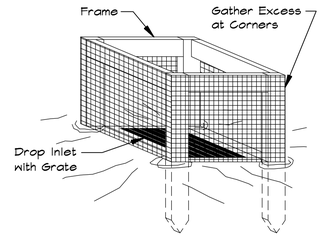
SPECIFIC APPLICATION

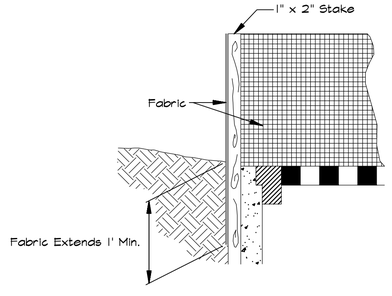
This Method of Protection is Applicable at Curb Inlets Where Ponding in Front of the Structure is not Likely to Cause Inconvenience or Damage to Adjacent Structures and Unprotected Areas.

TEMPORARY SAND BAG CURB INLET SEDIMENT FILTER

N.T.S.







SILT FENCE INLET PROTECTION

NTS

Revision	By	Date

MORRISON SHIPLEY

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STATE OF ARKANSAS LICENSED PROFESSIONAL ENGINEER No.10222 BRIAN S. MAURER 8/15/2021

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City Project No.	PIIP20-0002

SOUTH MAIN STREET IMPROVEMENTS

(SW 8th Street to SW 2nd Street)

Bentonville, Benton County, Arkansas

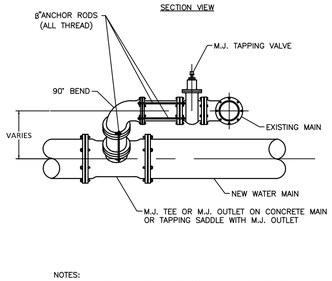
EROSION CONTROL DETAILS

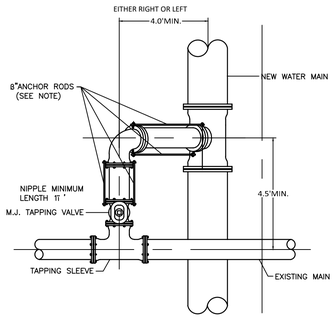
Issued for Bidding - 8.15.2021

Sheet No.: 37 of 44

Drawing Name: M:\SDSK\PROJ\BTV-04A\DAATTING\BTV-04A BASE.dwg Last Modified: Aug 13, 2021 - 1:37pm Plotted on: Aug 13, 2021 - 1:47pm by dzarrera

SWING CONNECTION – NEW MAIN TO EXISTING MAIN



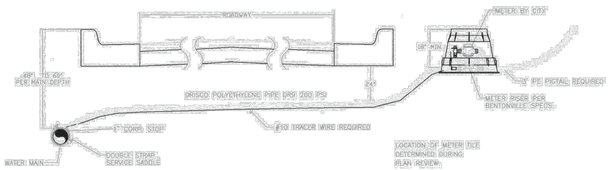


NOTES:
1. CONTRACTOR SHALL LOCATE EXISTING MAIN IN ADVANCE OF LAYING NEW LINE IN ORDER TO ASSURE ADEQUATE LENGTH TO ADJUST DEPTH OF NEW MAIN.
2. DIMENSIONS SHOWN ARE RECOMMENDED MINIMUMS TO PROVIDE ADEQUATE ROOM FOR TIGHTENING BOLTS ON JOINTS. (OTHER DIMENSIONS MAY BE USED)
3. PROVIDE STAINLESS STEEL "ALL THREAD" TIE RODS WITH EYE BOLTS FOR ANCHORING ALL JOINTS.
4. RODS SHALL BE FIELD CUT TO FIT & SHALL BE PROTECTED WITH POLYWRAP.
5. ROTATE TEE UP & ELBOW DOWN AS REQUIRED TO MATCH.
6. USE TYPICAL CONCRETE BLOCKING REQUIRED.

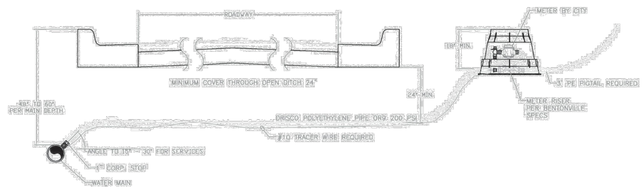
THRUST BLOCKING REQUIRED AT TEES AND ELBOWS.

PIPE SIZE	6"	8"	12"
RODS PER NIPPLE	2	2	4

WATER SERVICE DETAIL 5/8"



WATER SERVICE DETAIL 1"

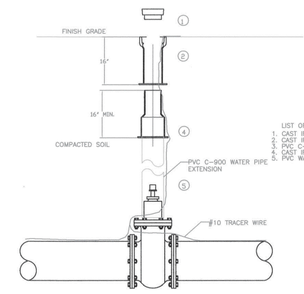


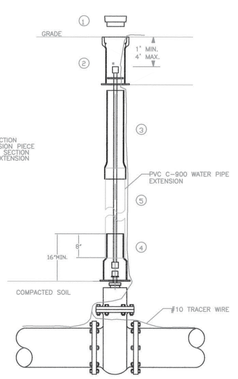
REACTION BACKING TABLE

SIZE	REQUIRED SQ. FT. OF UNDISTURBED EARTHWALL FOR REACTION BACKING					
	TYPE OF FITTINGS					
	TEE	90°	45°	22 1/2"	11 1/4"	PLUG
2"	1	1	1	1	1	1
3"	1	1	1	1	1	1
4"	1	2	1	1	1	2
6"	3	3	2	1	1	3
8"	4	6	3	2	1	4
10"	6	8	5	3	1	6
12"	8	12	6	3	2	8

NOTES:
1. ALL FITTINGS SHALL BE MECHANICAL JOINTS.
2. DO NOT COVER BELLS OR FLANGES WITH CONCRETE.
3. WRAP ALL FITTINGS WITH POLY WRAP.
4. BACK ALL TEES ACCORDING TO SIZE OF BRANCH.
5. BACKING FUTURE LINE EXTENSIONS SHALL BE SUCH THAT LATER REMOVAL IS POSSIBLE.
6. ALL BENDS WHERE FITTINGS ARE USED, BOTH HORIZONTAL OR VERTICAL, SHALL BE BACKED WITH CONCRETE.
7. REACTION BACKING TABLE IS BASED ON 150 PSI AND SOIL BEARING PRESSURE OF 2,000 LB/SQ. FT. ADDITIONAL BACKING MAY BE REQUIRED IN SOME AREAS AS REQUIRED BY CITY WATER DEPARTMENT.

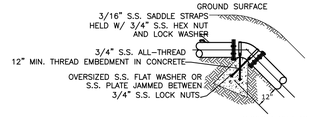
VALVE BOX VALVE STEM & TRACER WIRE INSTALLATION

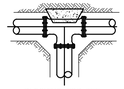


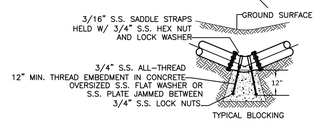


NOTES:
1. IF EXTENSION PIECE IS NEEDED, PVC C-900 WATER PIPE MAY BE USED.
2. EXTENSION PIECE CAN BE CUT TO LENGTH REQUIRED.
3. TRACER WIRE NEEDS TO EXTEND OUT OF THE VALVE BOX A MINIMUM OF 6".
*PROVIDE VALVE STEM EXTENSION WITH CENTERING DEVICE IF GREATER THAN 4.0' DEEP.

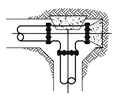
THRUST BLOCKING

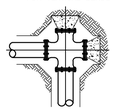


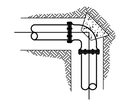


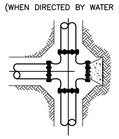


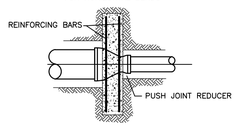
TYPICAL BLOCKING FOR VERTICAL BENDS







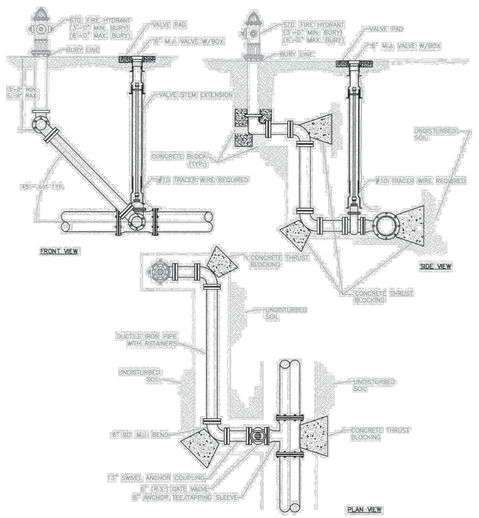




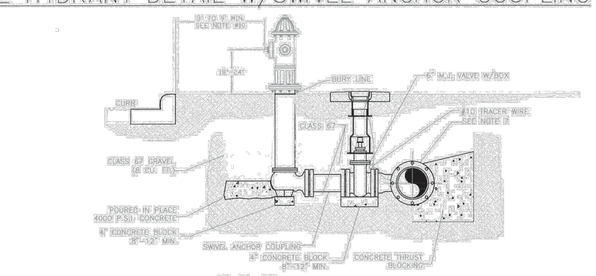
NOTES:
1. ALL BLOCKING SHALL BE AGAINST UNDISTURBED SOIL USING 4,000 PSI CONCRETE.
2. WHERE SOIL CONDITIONS MAKE IT NECESSARY TO POUR CONCRETE OVER JOINTS, THE ENDS OF THE ADJACENT PIPES MUST HAVE A THRUST BLOCK TO RESIST MOVEMENT OF THESE JOINTS.
3. WEIGHT CALCULATIONS TO BE BASED ON REACTION BACKING TABLE (SEE GWS03).
4. WHEN BLOCKING AGAINST FITTINGS, FITTINGS SHALL BE COVERED WITH POLYETHYLENE WRAP TO PREVENT BONDING OF CONCRETE
5. WHERE SHEAR BECOMES A PROBLEM PROPER REINFORCING MUST BE INSTALLED INTO THE BLOCKING.
6. CLEARANCE SHALL BE A MINIMUM OF 6" BETWEEN PIPE AND OBSTRUCTIONS.
7. CLEARANCE ON PIPES BELONGING TO OIL/GAS COMPANIES SHALL BE 18" UNLESS SPECIAL PERMISSION IS GIVEN BY THESE COMPANIES.
8. 12" OF ALL THREAD EMBEDED IN CONCRETE

DEEP BURY FIRE HYDRANTS

(BURY DEEPER THAN 6'-0")



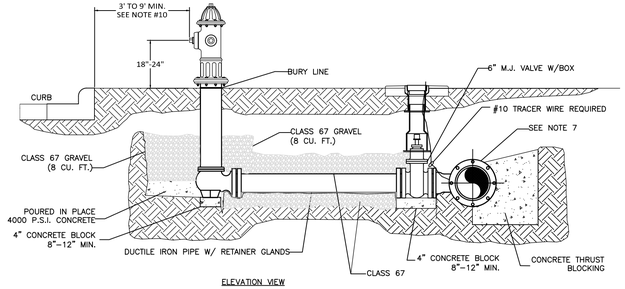
FIRE HYDRANT DETAIL W/SWIVEL ANCHOR COUPLING



ELEVATION VIEW

NOTES:
1. DRAINAGE BED SHALL CONSIST OF 8 CU FT OF CLASS 67 GRAVEL.
2. USE 6" D.I. NIPPLE WITH M.J. RETAINER GLANDS IF DISTANCE BETWEEN VALVE AND HYDRANT MUST BE GREATER THAN 13" SWIVEL ADAPTER.
3. FIRE HYDRANT TO BE BLOCKED AGAINST FIRM SOIL AS SHOWN.
4. ALL HYDRANTS SHALL BE INSTALLED PLUMB.
5. LARGE NOZZLE SHALL FACE CURB UNLESS OTHER-WISE NOTED. ROTATE BARREL AS REQUIRED.
6. HYDRANT SHOULD NOT BE SET CLOSER THAN 4.0' TO OBSTRUCTIONS THAT ARE IN LINE WITH NOZZLE.
7. M.J. ANCHOR TEE, TAPPING SLEEVE OR TAPPING SADDLE MAY BE USED (SEE MATERIAL SPECIFICATIONS).
8. HYDRANTS TO BE SET AT DEPTHS GREATER THAN 6.0' SHALL BE SET WITH A MODIFIED FIRE HYDRANT SETTING.
9. POLYWRAP ENTIRE HYDRANT ASSEMBLY. DO NOT COVER WEEP HOLE DRAIN.
10. HYDRANTS WILL BE SET AT A MINIMUM OF 3' TO 9' BACK OF CURB, NOT IN SIDEWALK, FIRE LANE, OR RADIUS OR AS DIRECTED BY BENTONVILLE WATER DEPARTMENT.

FIRE HYDRANT DETAIL W/DUCTILE IRON PIPE AND RETAINER GLANDS



ELEVATION VIEW

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10. HYDRANTS WILL BE SET AT A MINIMUM OF 3' TO 9' BACK OF CURB OR EDGE OF DRAINING SURFACE, NOT IN SIDEWALK, FIRE LANE, OR RADIUS OR AS DIRECTED BY BENTONVILLE WATER DEPARTMENT.

Revision	By	Date

MORRISON SHIPLEY

2407 SE COTTONWOOD STREET • BENTONVILLE, AR 72712 • 479.273.2209 • MORRISONSHIPLEY.COM

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No.10222
BRIAN S. MAURER
8/15/2021

The Original Signed and Sealed Document is on file at the Office of Record

Drawn By:	JMN
Approved By:	BSM
Date:	8.15.2021
Project No.:	BTV-04A

Vertical Scale:	–
Horizontal Scale:	?
Plotting Scale:	1
City Project No.	PIIP20-0002

SOUTH MAIN STREET IMPROVEMENTS

(SW 8th Street to SW 2nd Street)

Bentonville, Benton County, Arkansas

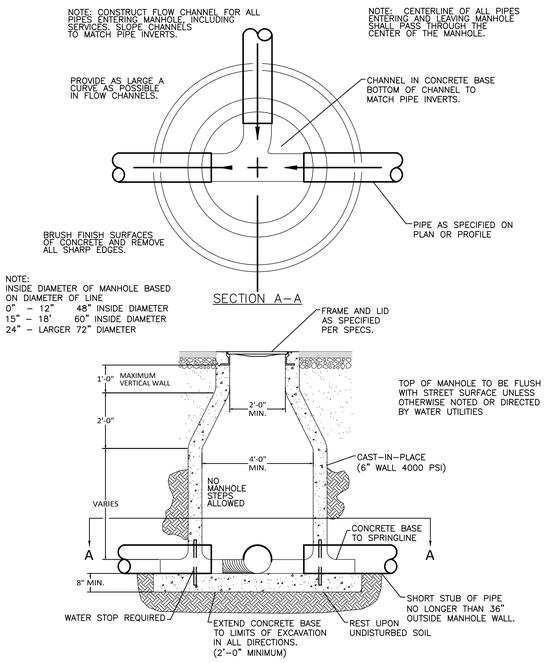
WATER DETAILS

Issued for Bidding – 8.15.2021

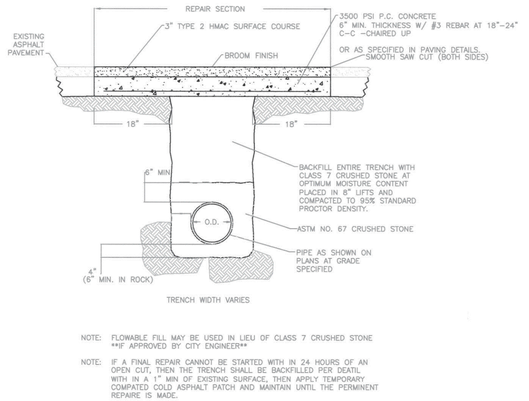
Sheet No.: 38 of 44

Drawing Name: M:\SOUTH\BTV-04A\DRAFTING\BTV-04A BASE.dwg Last Modified: Aug 13, 2021 - 1:37pm Plotted on: Aug 13, 2021 - 1:47pm by dcarreira

SANITARY SEWER MANHOLE CAST–IN–PLACE



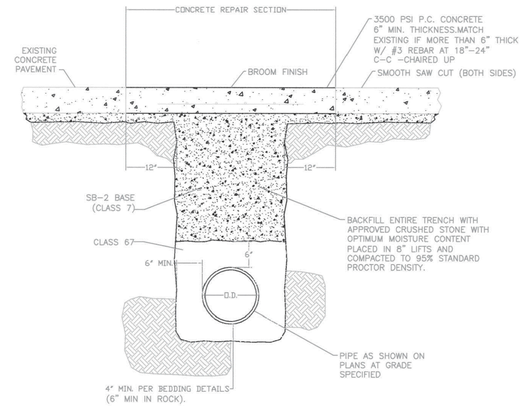
ASPHALT STREET, ALLEY WAY OR DRIVE CUT/REPAIR



NOTE: FLOWABLE FILL MAY BE USED IN LIEU OF CLASS 7 CRUSHED STONE **IF APPROVED BY CITY ENGINEER**

NOTE: IF A FINAL REPAIR CANNOT BE STARTED WITH IN 24 HOURS OF AN OPEN CUT, THEN THE TRENCH SHALL BE BACKFILLED PER DEATIL WITH IN A 1" MIN OF EXISTING SURFACE, THEN APPLY TEMPORARY COMPATED COLD ASPHALT PATCH AND MAINTAIN UNTIL THE PERMINENT REPAIRE IS MADE.

CONCRETE STREET OR DRIVE CUT/REPAIR



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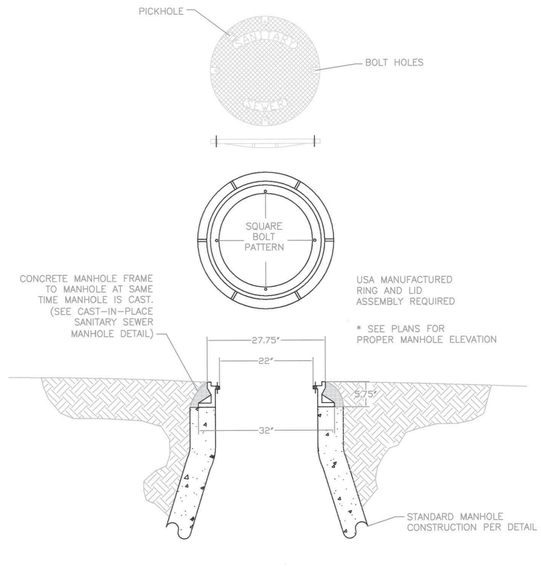
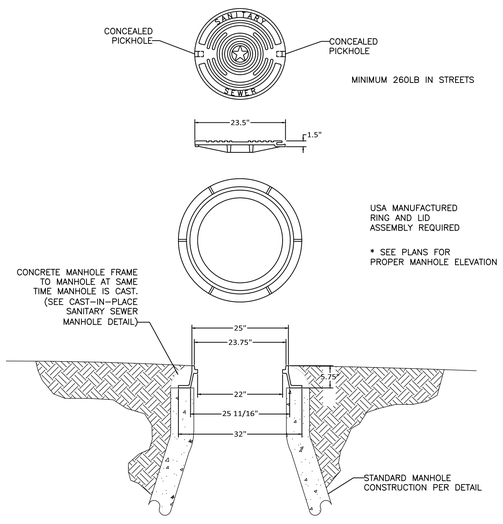
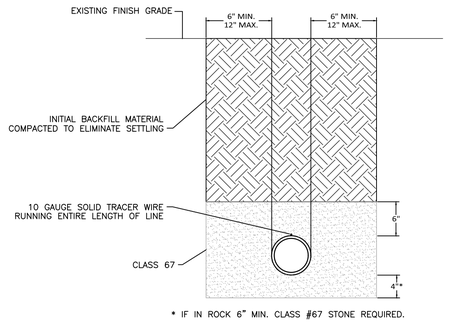
WATER TIGHT BOLTED MANHOLE LID & FRAME



HEAVY DUTY MANHOLE LID & FRAME



TYPICAL BEDDING DETAIL AND BACKFILL DETAIL



* IF IN ROCK 6" MIN. CLASS #67 STONE REQUIRED.

Revision	By	Date

MORRISON SHIPLEY

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STATE OF ARKANSAS LICENSED PROFESSIONAL ENGINEER No.10222 BRIAN S. MAURER 8/15/2021

The Original Signed and Sealed Document is on file at the Office of Record

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Approved By:	BSM
Date:	8.15.2021
Project No.:	BTV–04A

Vertical Scale:	–
Horizontal Scale:	?
Plotting Scale:	1
City Project No.	PIIP20–0002

SOUTH MAIN STREET IMPROVEMENTS

(SW 8th Street to SW 2nd Street)

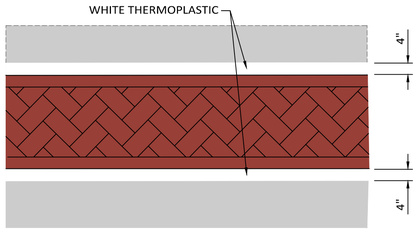
Bentonville, Benton County, Arkansas

SANITARY SEWER DETAILS

Issued for Bidding – 8.15.2021

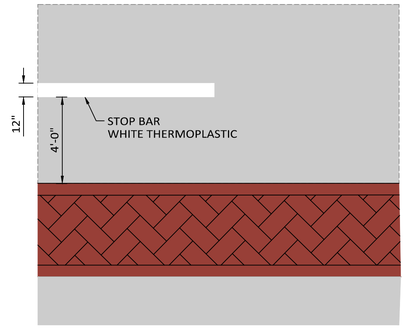
Sheet No.: 39 of 44

Drawing Name: M:\SDOXPROJ\BTV–04A\DRAFTING\BTV–04A BASE .dwg Last Modified: Aug 13, 2021 - 1:37pm Plotted on: Aug 13, 2021 - 1:47pm by dcarreira



STAMPED CONCRETE CROSSWALK MARKING FOR THROUGH TRAFFIC CONDITIONS

Not to Scale



STAMPED CONCRETE CROSSWALK MARKING FOR STOPPED TRAFFIC CONDITIONS

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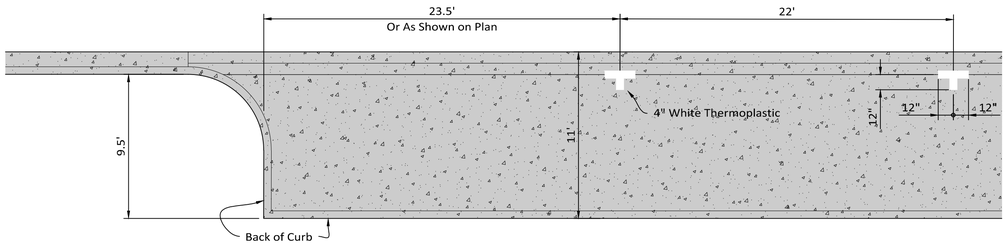
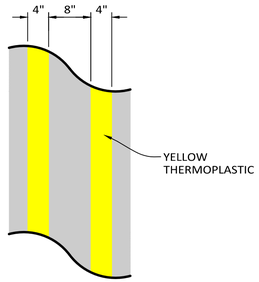


ON-STREET PARALLEL PARKING MARKING DETAIL

Not to Scale



DOUBLE SOLID YELLOW MARKING

Not to Scale

30"x30"

R1-1

24"x30"

R2-1

W11-2

W16-7P

12"x18"

R7-1

Revision	By	Date

MORRISON SHIPLEY

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SOUTH MAIN STREET IMPROVEMENTS

(SW 8th Street to SW 2nd Street)

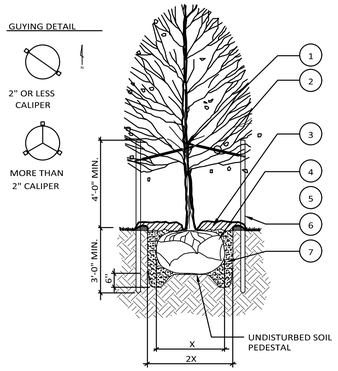
Bentonville, Benton County, Arkansas

MARKING AND SIGNAGE DETAILS

Issued for Bidding - 8.15.2021

Sheet No.: 40 of 44

Drawing Name: M:\SIS\KPRO\BTV-04A\DRAFTING\BTV-04A BASE.dwg Last Modified: Aug 13, 2021 - 1:37pm Plotted on: Aug 13, 2021 - 1:47pm by dcarreira



DECIDUOUS TREE PLANTING LEGEND

SYMBOL	DESCRIPTION
1	TREE STRAP LOOP AT FIRST BRANCH. USE RUBBER HOSE OR APPROVED EQUAL TO PREVENT DAMAGE TO TREE
2	12 GAUGE GALVANIZED WIRE & 1-1/2 PVC PIPE
3	4" ORGANIC MULCH PER SPECIFICATIONS. DO NOT PLACE MULCH AGAINST TREE TRUNK
4	REMOVE WIRE BASKET AND REMOVE BURLAP & ROPE FROM TOP 1/3 OF ROOT BALL
5	TREE SAUCER (FORMED BY MIN. 4" THICK MULCH)
6	8' METAL TEE STAKE. KEEP STAKE PLUMB AND SECURED OUTSIDE OF TREE PIT.
7	PREPARED BACKFILL-TAMP TO PREVENT SETTLEMENT. SOAK BACKFILL AFTER PLANTING.

PLANTING NOTES

A. RETAIN NATURAL SHAPE. DO NOT SHEAR OR CUT CENTRAL LEADER. TREES WITH CENTRAL LEADERS ARE NOT ACCEPTED IF LEADER IS DAMAGED OR REMOVED.

B. PRUNE ALL DAMAGED TWIGS AFTER PLANTING.

C. WRAP TREES TO FIRST BRANCH IF PLANTED IN FALL. DO NOT WRAP IF PLANTED IN SPRING.

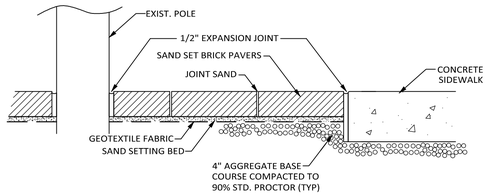
D. TREES TO BE INSTALLED SO TOP OF ROOT BALLS LEVEL WITH ADJACENT GRADE. TREE SHALL BEAR SAME RELATION TO FINISH GRADE AS MAINTAINED AT NURSERY.

E. PLACE TREE BALL ON FIRM UNDISTURBED SOIL.

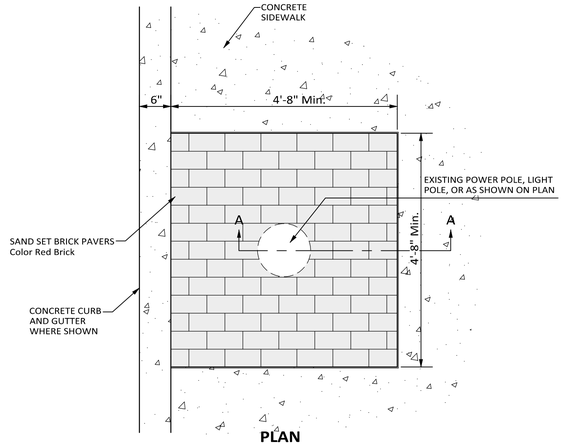
F. IF POSSIBLE MARK TREE TRUNK ON THE NORTHERN SIDE AT THE NURSERY AND PLANT TREE WITH MARK FACING NORTH.

G. TOPSOIL USED SHALL BE AS SPECIFIED IN THE LANDSCAPE SPECIFICATIONS.

TREE PLANTING DETAIL — N.T.S. — LD 01

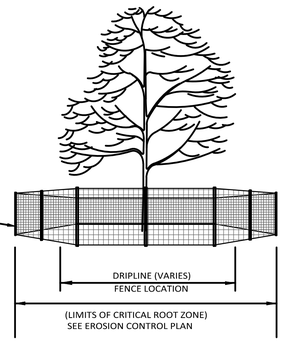


SECTION "A-A"

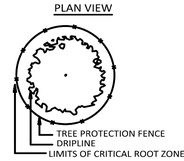


PLAN

SAND-SET PAVER DETAIL



PLAN VIEW



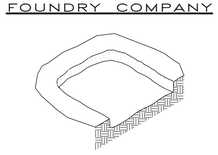
Notes For Tree And Natural Area Protection:

1. All Trees And Natural Areas Shown To Be Preserved On This Plan Shall Be Protected During Construction With Temporary 4' High Orange Construction/ Barrier Fencing.
2. Protective Fences Shall Be Installed According To Common Standards For Tree Protection.
3. Protective Fences Shall Be Installed Prior To The Start Of Any Site Preparation Work (clearing, Grubbing, Or Grading) And Shall Be Maintained Throughout All Phases Of The Construction Project.
4. Erosion And Sedimentation Control Barriers Shall Be Installed Or Maintained In A Manner Which Does Not Result In Soil Build-up Within Tree Driplines.
5. Protective Fences Shall Surround The Trees Or Group Of Trees, And Will Be Located At The Dripline. For Natural Areas, Protective Fences Shall Follow The Limit Of Construction Line In Order To Prevent The Following:
   A. Soil Compaction In The Root Zone Area Resulting From Vehicular Traffic Or Storage Of Equipment Or Materials;
   B. Root Zone Disturbances Due To Grade Changes (Greater Than 6 Inches Of Cut Or Fill) Or Trenching;
   C. Wounds To Exposed Roots, Trunks, Or Limbs By Mechanical Equipment;
   D. Other Activities Detrimental To Trees Such As Chemical Storage, Concrete Truck Cleaning, And Fires.
6. Exceptions To Installing Fences At Tree Driplines May Be Permitted In The Following Cases:
   A. Where There Is To Be An Approved Grade Change, Permeable Paving Surface, Tree Well, Or Other Such Site Development.
   B. Where Permeable Paving Is To Be Installed Within A Tree's Dripline, Erect The Fence At The Outer Limits Of The Permeable Paving Area (prior To Site Grading So That This Area Is Graded Separately Prior To Paving Installation To Minimize Root Damage)
   C. Where Trees Are Close To Proposed Buildings, Erect The Fence To Allow 6 To 10 Feet Of Work Space Between The Fence And The Building.
   D. Where There Are Severe Space Constraints Due To Tract Size, Or Other Special Requirements.
7. Where Any Of The Above Exceptions Result In A Fence Being Closer Than 4 Feet To A Tree Trunk, Protect The Trunk With Strapped On Planing To A Height Of 8 Feet (or Limits Of Lower Branching) In Addition To The Reduced Fencing Provided.
8. Trees Approved For Removal Shall Be Removed In A Manner Which Does Not Impact Trees To Be Preserved.
9. Any Trenching Required For The Installation Of Utilities Shall Be Placed As Far From Existing Tree Trunks As Possible.
10. No Landscape Topsoil Dressing Greater Than 4 Inches Shall Be Permitted Within The Driplines Of Trees. No Soil Is Permitted On The Root Flare Of Any Tree.
11. Pruning To Provide Clearance For Structures, Vehicular Traffic, And Equipment Shall Take Place Before Construction Begins.
12. Deviations From The Above Notes May Be Considered Ordinance Violations If There Is Substantial Non-compliance Or If A Tree Sustains Damage As A Result.
13. All Pruning Shall Be In Accordance With Certified Arborist Standards And ANSI 300 Pruning Standards.

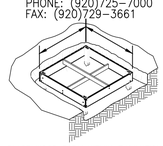
TREE PROTECTION — N.T.S.

NEENAH FOUNDRY COMPANY

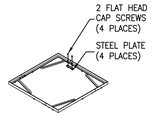
NEENAH FOUNDRY COMPANY
2121 BROOKS AVENUE
NEENAH, WISCONSIN
54956 P.O. BOX 729
PHONE: (920)725-7000
FAX: (920)729-3661



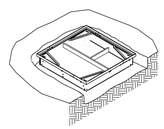
1. EXCAVATE TREE PIT



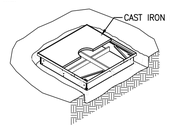
2. PLACE WOOD FORM WITHIN EXCAVATION. SET AT PROPER GRADE. MAKE FORM OUTSIDE DIMENSION:
45 3/4" X 45 3/4" FOR 48" X 48" GRATE,
57 3/4" X 57 3/4" FOR 60" X 60" GRATE OR
69 3/4" X 69 3/4" FOR 72" X 72" GRATE.



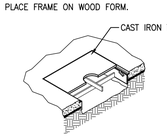
3. ASSEMBLE THE R-8500 TREE GRATE FRAME USING THE HARDWARE PROVIDED. MAKE SURE TO TIGHTEN THE COUNTERSUNK FLAT HEAD SCREWS SO THEY ARE FLUSH OR BELOW THE BEARING SURFACE OF THE FRAME.



4. PLACE FRAME ON WOOD FORM.



5. PLACE BOTH TREE GRATE HALVES WITHIN THE FRAME. CHECK AND ADJUST FRAME ALIGNMENT AND ELEVATION IF NEEDED. INSTALL #3 REBAR THROUGH LUGS ON SUPPORT AS REQUIRED.



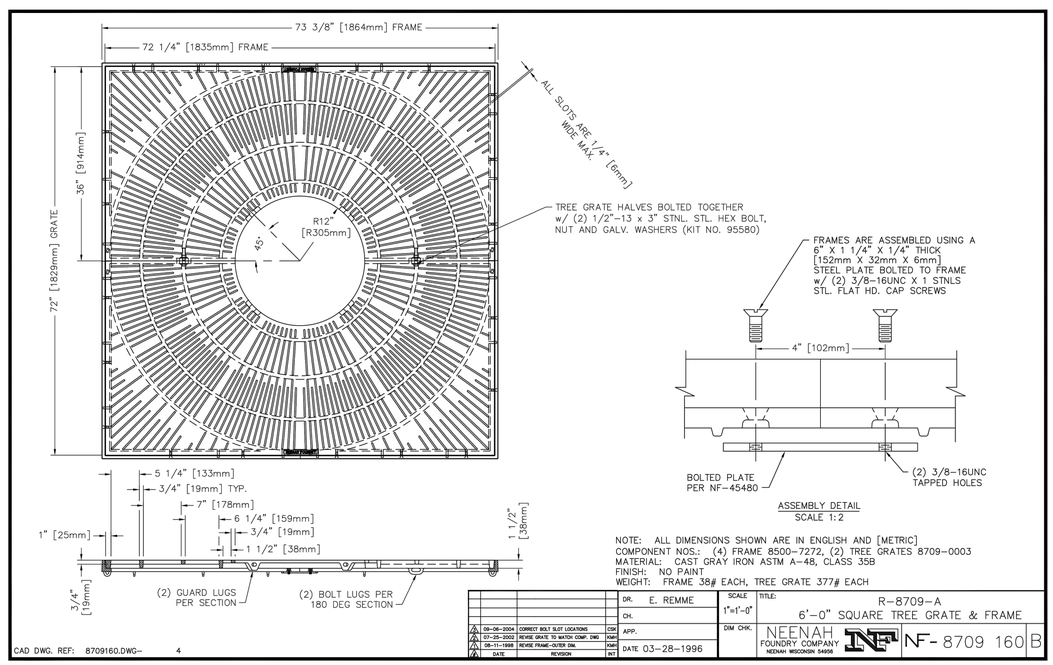
6. POUR AND FINISH CONCRETE. DO NOT REMOVE TREE GRATE UNTIL CONCRETE IS SET UP.

NOTES:
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
2. DO NOT SCALE DRAWINGS.
3. CONTRACTORS NOTE: FOR PRODUCT AND PURCHASING INFORMATION VISIT www.CADdetails.com/info REFERENCE NUMBER 071-003.

TREE GRATE INSTALLATION DETAIL

PROTECTED BY COPYRIGHT - 071-003 10/21/03

www.caddetails.com



ASSEMBLY DETAIL
SCALE 1:2

NOTE: ALL DIMENSIONS SHOWN ARE IN ENGLISH AND [METRIC]
COMPONENT NOS.: (4) FRAME 8500-7272, (2) TREE GRATES 8709-0003
MATERIAL: CAST GRAY IRON ASTM A-48, CLASS 35B
FINISH: NO PAINT
WEIGHT: FRAME 38# EACH, TREE GRATE 377# EACH

		DR.	E. REMME
		CH.	
09-06-2004	CORRECT BOLT SLOT LOCATIONS	CM	APP.
07-29-2002	REVISE GRATE TO MATCH COMP. DWG	KMK	
08-11-1998	REVISE FRAME-OUTER DIM.	KMK	DATE 03-28-1996
DATE	REVISION	BY	

SCALE 1"=1'-0" — DIM CHK. —

TITLE: R-8709-A
6'-0" SQUARE TREE GRATE & FRAME

NEENAH FOUNDRY COMPANY NEENAH WISCONSIN 54956 — NF-8709 160 B

CAD DWG. REF: 8709160.DWG- 4

Revision	By	Date

MORRISON SHIPLEY

2407 SE COTTONWOOD STREET • BENTONVILLE, AR 72712 • 479.273.2209 • MORRISONSHIPLEY.COM

STATE OF ARKANSAS LICENSED PROFESSIONAL ENGINEER No.10222 BRIAN S. MAURER 11/5/2021

The Original Signed and Sealed Document is on file at the Office of Record

Drawn By:	JMN
Approved By:	BSM
Date:	8.15.2021
Project No.:	BTV-04A
Vertical Scale:	–
Horizontal Scale:	?
Plotting Scale:	1
City Project No.	PIIP20-0002

SOUTH MAIN STREET IMPROVEMENTS

(SW 8th Street to SW 2nd Street)

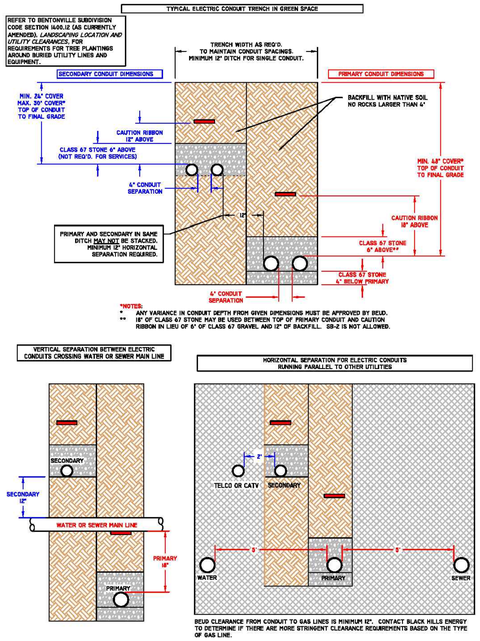
Bentonville, Benton County, Arkansas

MISCELLANEOUS and TREE/TREE GRATE DETAILS

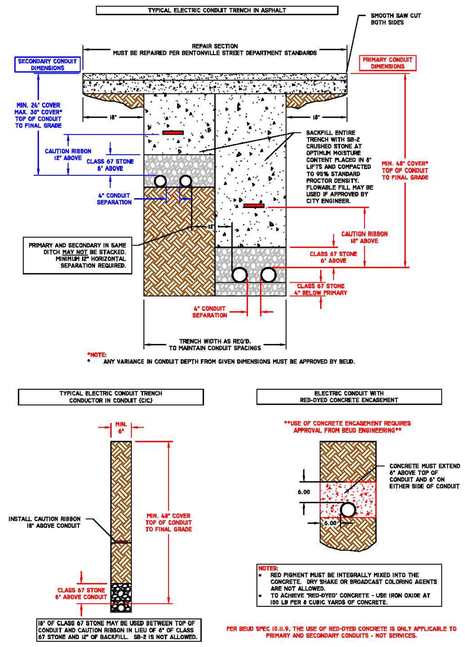
Issued for Bidding - 8.15.2021

Sheet No.: 41 of 44

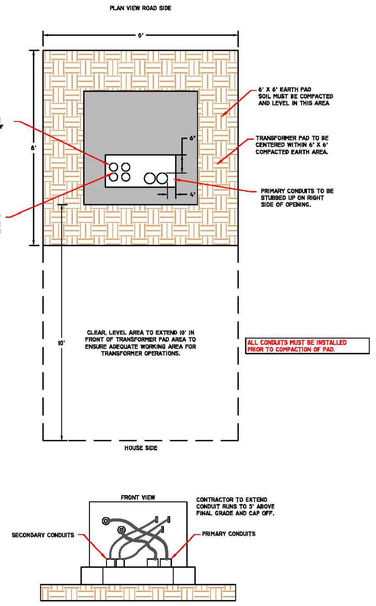
Drawing Name: M:\SOSXPROJ\BTV-04A\DRAFTING\BTV-04A BASE.dwg Last Modified: Aug 13, 2021 - 1:37pm Plotted on: Aug 13, 2021 - 1:47pm by dzarreira



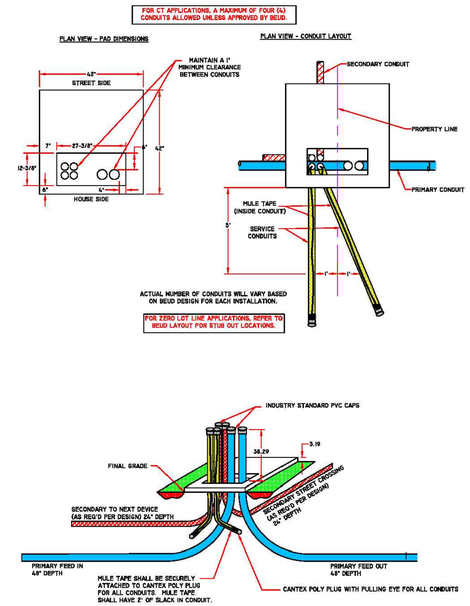
DS-1403 ELECTRIC TRENCH DETAILS SHEET 1



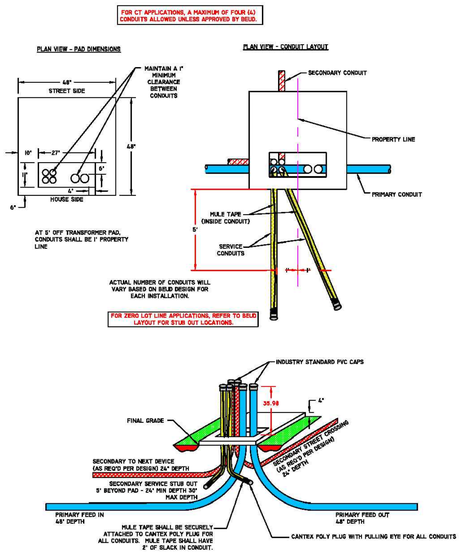
DS-1404 ELECTRIC TRENCH DETAILS SHEET 2



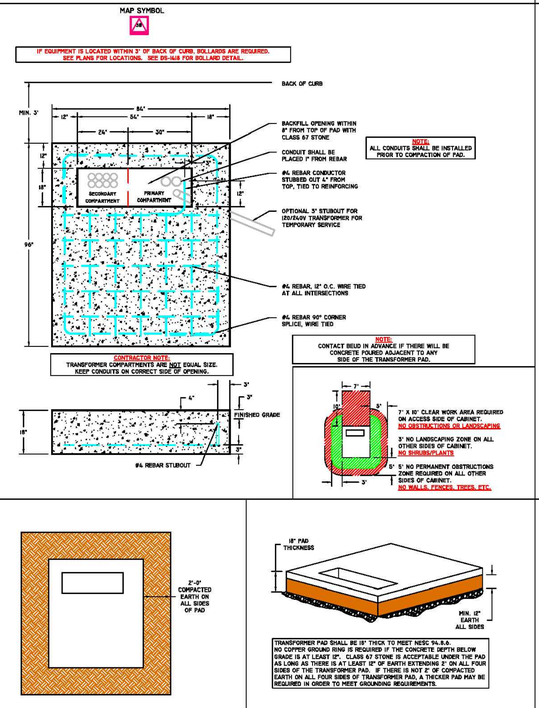
DS-1405 SINGLE PHASE TRANSFORMER SITE REQUIREMENTS



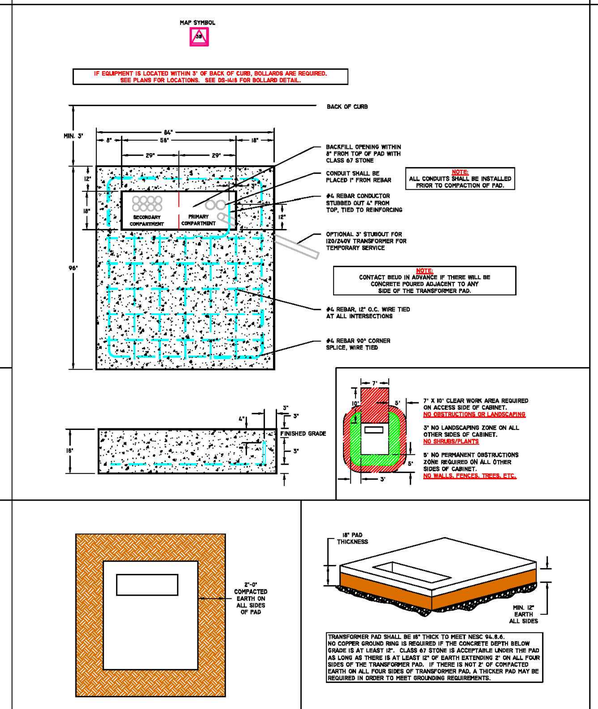
DS-1406 SINGLE PHASE TRANSFORMER PAD SMALLER THAN 100 kVA



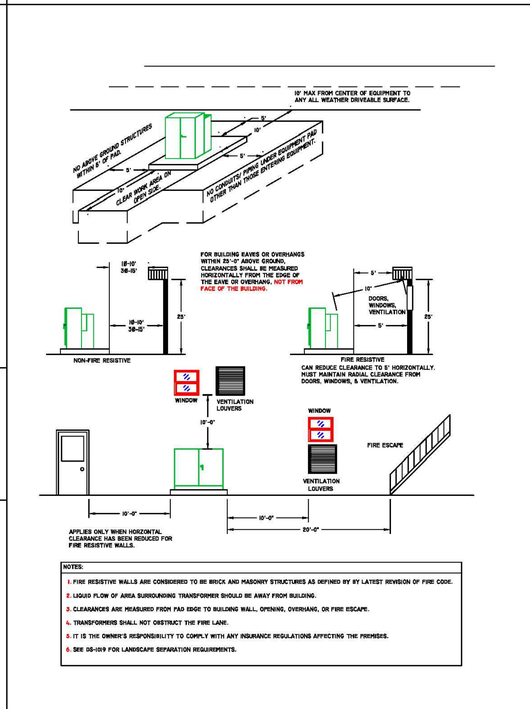
DS-1407 SINGLE PHASE TRANSFORMER PAD 100 kVA AND LARGER



DS-1408 THREE PHASE TRANSFORMER PAD 45-1000 kVA



DS-1409 THREE PHASE TRANSFORMER PAD 1500-2500 kVA



DS-1410 CLEARANCE SPECIFICATIONS FOR PADMOUNTED EQUIPMENT

THE CITY OF BENTONVILLE
608 SE 3rd Street
Bentonville, AR 72712
Ph: (479) 273-3135
www.bentonvillear.com

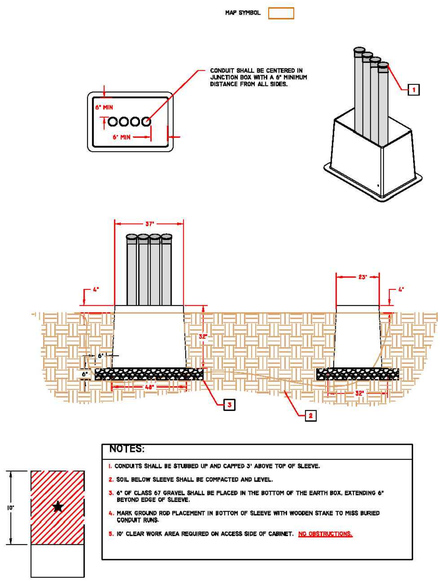
ELECTRIC LAYOUT

REVISION	BY	DATE
BEUD REVISION	AJH	06/2019
BEUD REVISION	AJH	03/2019
BEUD REVISION	WDT	02/06/2018
ADDED DS-1410 SPECIFICATIONS	WDT	10/2017
BEUD REVISION	WDT	10/2017

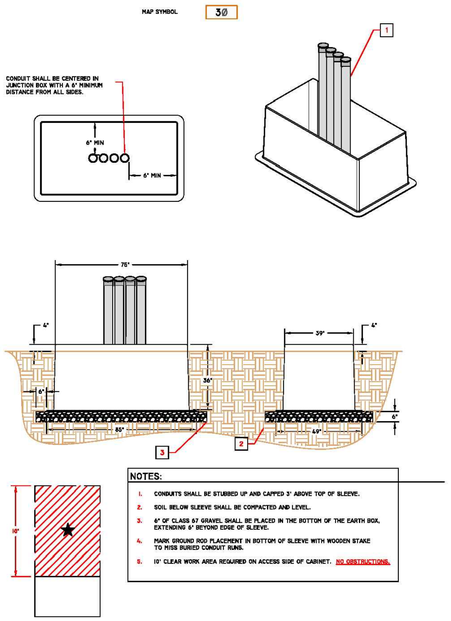
SCAN FOR LATEST REVISION OF BEUD SPECS
www.tinyurl.com/pb53cpcs

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

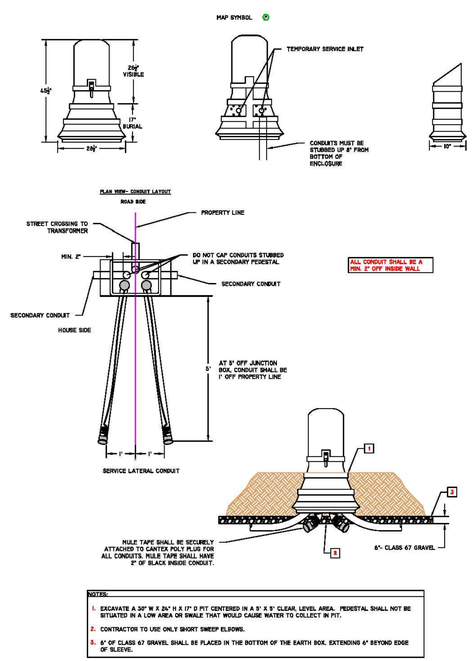
DRAWN: AJH 06/2019
CHECKED: WDT REV 6
SHEET NUMBER: 1



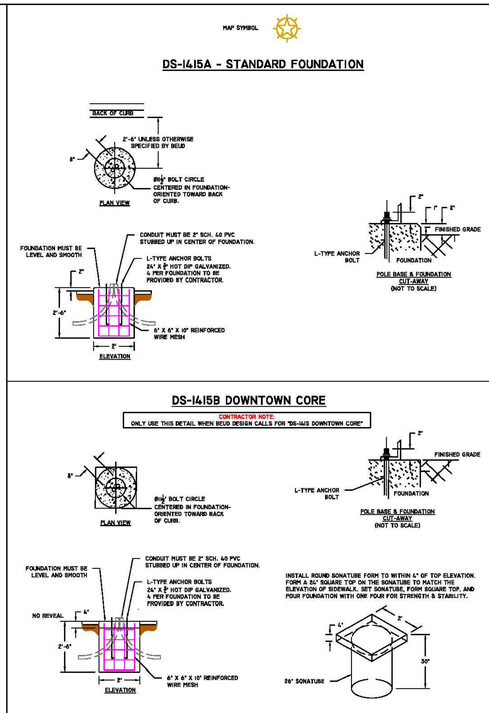
DS-1411 SINGLE PHASE PRIMARY JUNCTION BOX SLEEVE



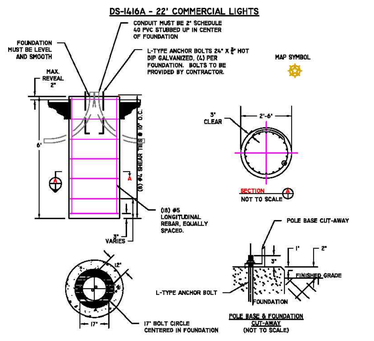
DS-1412 THREE PHASE 200A PRIMARY JUNCTION BOX SLEEVE

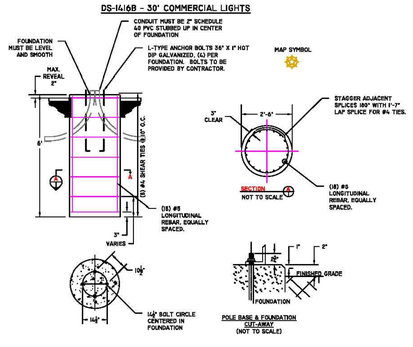


DS-1414 SECONDARY JUNCTION BOX

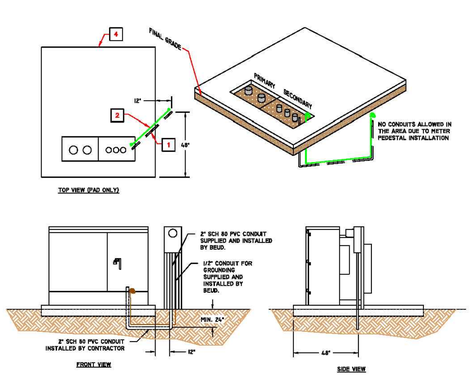


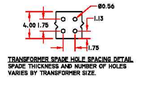
DS-1415 STREET LIGHT FOUNDATION FOR 12' RESIDENTIAL LIGHTS





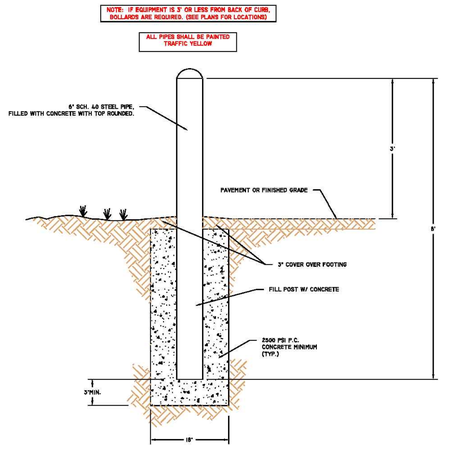
DS-1416 STREET LIGHT FOUNDATION FOR 22' AND 30' COMMERCIAL LIGHTS



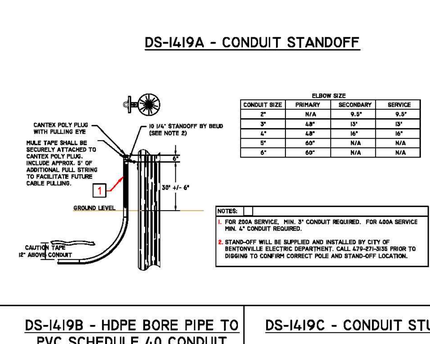


TRANSFORMER SIZE (kVA)	USEABLE POSITIONS	SPADE THICKNESS
45	II	0.38"
75	I	0.5"
150-1000	II	0.5"
1500-2500	III	0.5"
2500	III	0.75"

DS-1417 TRANSFORMER PAD AND METER CONFIGURATION FOR CT'S ON SPADES



DS-1418 PIPE BOLLARD DETAIL



DS-1419 CONDUIT INSTALLATION DETAILS

THE CITY OF BENTONVILLE
608 SE 3rd Street
Bentonville, AR 72712
Ph: (479) 273-3135
www.bentonvillear.com

ELECTRIC LAYOUT

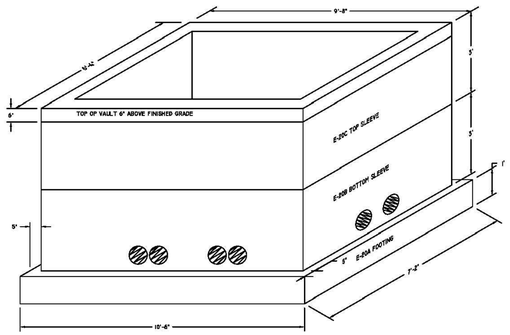
REVISION			
BELD REVISION	2	K.K	10/25/2019
BELD REVISION	3	K.K	10/28/2019
BELD REVISION	4	K.K	10/28/2019
CLARIFICATIONS	5	K.K	11/7/2019
BELD REVISION	6	K.K	11/7/2019

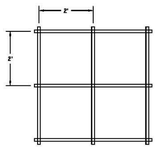
SCAN FOR LATEST REVISION OF BELD SPECS
www.tinyurl.com/yd63cpcs

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

DRAWN:	A.H	06/2019
CHECKED:	W.T	REV 6

SHEET NUMBER: 2

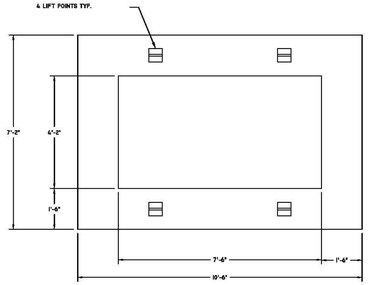




STEEL REINFORCING GRID REQUIRED USING #4 REBAR AT 12" O.C. THROUGHOUT

CONTRACTOR SHALL COVER EACH UNUSED HOLES INDIVIDUALLY. NO GLUE SHALL BE USED.

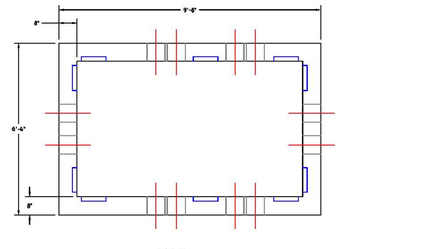
DS-I420 PADMOUNT SWITCHGEAR VAULT ASSEMBLY

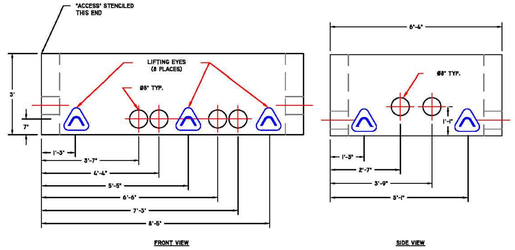


NOTE: CLASS 67 STONE MUST NOT BE INSTALLED ANY HIGHER THAN 2" FROM TOP OF FOOTING.

FOOTER WEIGHT: 3,200 LBS

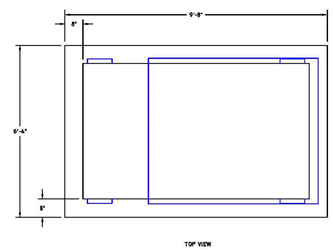
DS-I420A PADMOUNT SWITCHGEAR VAULT FOOTER

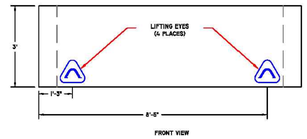




BOTTOM SLEEVE WEIGHT: 8,900 LBS

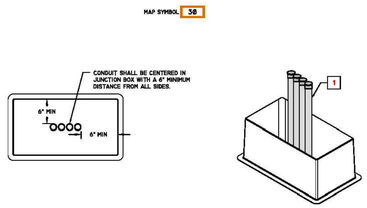
DS-I420B PADMOUNT SWITCHGEAR BOTTOM SLEEVE

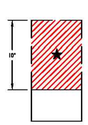




TOP SLEEVE WEIGHT: 9,200 LBS

DS-I420C PADMOUNT SWITCHGEAR TOP SLEEVE

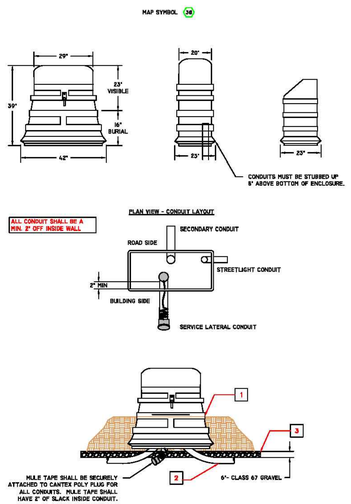




NOTES:

1. CONDUITS SHALL BE STUBBED UP AND CAPPED 3" TOP OF SLEEVE.
2. SOIL BELOW SLEEVE SHALL BE COMPACTED AND LEVEL.
3. 6" OF CLASS 67 GRAVEL SHALL BE PLACED IN THE BOTTOM OF THE EARTH BOX, EXTENDING 6" BEYOND EDGE OF SLEEVE.
4. MARK GROUND ROD PLACEMENT IN BOTTOM OF SLEEVE WITH WOODEN STAKE TO MISS BURIED CONDUIT RUNS.
5. 10' CLEAR WORK AREA REQUIRED ON ACCESS SIDE OF CABINET. NO OBSTRUCTIONS.

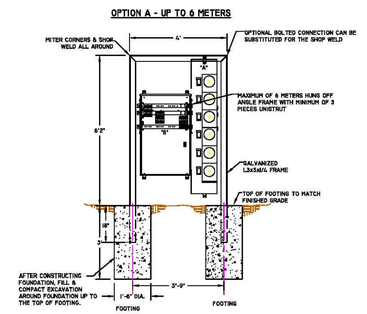
DS-I413 THREE PHASE 600A PRIMARY JUNCTION BOX SLEEVE

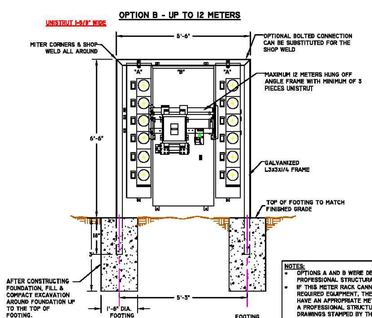


NOTES:

1. EXCAVATE A 44" W X 48" H X 17" D PIT CENTERED IN A 7' X 7' CLEAR, LEVEL AREA. PEDESTAL SHALL NOT BE SITUATED IN A LOW AREA OR SWALE THAT WOULD CAUSE WATER TO COLLECT IN PIT.
2. CONTRACTOR TO USE ONLY SHORT SWEEP ELBOWS.
3. 6" OF CLASS #7 GRAVEL SHALL BE PLACED IN THE BOTTOM OF THE EARTH BOX, EXTENDING 6" BEYOND EDGE OF SLEEVE.

DS-I414-1 THREE PHASE SECONDARY JUNCTION BOX





NOTES:

- OPTIONS A AND B WERE DESIGNED BY A PROFESSIONAL STRUCTURAL ENGINEER.
- IF THIS METER RACK CANNOT ACCOMODATE THE REQUIRED EQUIPMENT, THE DEVELOPER MUST HAVE AN APPROPRIATE METER RACK DESIGNED BY A PROFESSIONAL STRUCTURAL ENGINEER. DESIGN DRAWINGS STAMPED BY THE ENGINEER MUST BE SUBMITTED TO BEUD FOR REVIEW PRIOR TO INSTALLATION.
- FOR BOTH OPTIONS, GROUNDING SHALL BE PER NEC TABLE 250.122

DS-I024 SINGLE PHASE FREE STANDING METER RACK

608 SE 3rd Street
Bentonville, AR 72712
Ph: (479) 271-3135
www.bentonvillear.com

ELECTRIC LAYOUT

REVISION		
1	BEUD REVISION	06/27/2019
2	BEUD REVISION	07/17/2019
3	BEUD REVISION	09/09/2019
4	ADDED NOTES & DETAILS	10/17/2019
5	BEUD REVISION	04/27/2020

SCAN FOR LATEST REVISION OF BEUD SPECS
www.tinyurl.com/BEUDspecs

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DRAWN:	AJH 06/2019
CHECKED:	WDT REV 6

SHEET NUMBER: 3