PRELIMINARY FOXBRIAR SUBDIVISION, PHASE 2
LONGVIEW DRIVE
ROGERS, ARKANSAS

CONSTRUCTION NOTES

1. CONTRACTOR SHALL RETAIN A FULL SET OF THE LATEST APPROVED CONSTRUCTION PLANS ON SITE DURING CONSTRUCTION ACTIVITIES.

2. COORDINATE START-UP AND ALL CONSTRUCTION ACTIVITIES WITH THE DEVELOPER'S RESIDENT REPRESENTATIVE.

3. CONSTRUCTION METHODS AND MATERIALS NOT SPECIFIED IN THESE PLANS ARE TO MEET OR EXCEED THE SITEWORK SPECIFICATIONS PROVIDED BY EXPEDIENT CIVIL ENGINEERING, PLLC OR AS SPECIFIED BY THE DEVELOPER'S RESIDENT REPRESENTATIVE.

4. ALL CONSTRUCTION WORK AND UTILITY WORK OUTSIDE OF PROPERTY BOUNDARIES SHALL BE PERFORMED IN COOPERATION WITH AND IN ACCORDANCE WITH REGULATIONS OF THE AUTHORITIES CONCERNED.

5. **PUBLIC CONVENIENCE AND SAFETY:**

   THE CONTRACTOR SHALL CONDUCT THE WORK IN A MANNER THAT WILL ENSURE, AS FAR AS PRACTICABLE, THE LEAST OBSTRUCTION TO TRAFFIC AND SHALL PROVIDE FOR THE CONVENIENCE AND SAFETY OF THE GENERAL PUBLIC AND RESIDENTS ALONG AND ADJACENT TO HIGHWAYS IN THE CONSTRUCTION AREA IN AN ADEQUATE AND SATISFACTORY MANNER IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTC) FOR STREETS AND HIGHWAYS AND THE ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, LATEST EDITION.

6. **GRADING NOTES:**

   A. THE CONSTRUCTION AREA SHALL BE CLEARED, GRUBBED, AND STRIPPED OF TOPSOIL AND ORGANIC MATTER FROM ALL AREAS TO BE OCCUPIED BY BUILDING AND PAVING. TOPSOIL FOR REPLACEMENT ON SLOPES MAY BE STOCKPILED ON SITE. EXCESS TOPSOIL MAY BE WASTED IN FILL SLOPES EXCEPT THAT NO TOPSOIL WILL BE WASTED WITHIN 10 FEET OF THE EDGE OF THE BUILDING OR PAVED AREA. BURNING OF TIMBER AND DEBRIS WILL NOT BE PERMITTED UNLESS APPROVAL IS OBTAINED FROM GOVERNING OFFICIALS.

   B. AREAS TO RECEIVE FILL SHALL BE SCARIFIED AND THE TOP 8-INCH DEPTH COMPACTED TO 95% OF THE MAXIMUM DRY DENISTY PER ASTM D1557. ANY UNSUITABLE AREAS SHALL BE UNDERCUT AND REPLACED WITH SUITABLE MATERIAL BEFORE ANY FILL MATERIAL CAN BE APPLIED.

   C. OFF-SITE FILL MATERIAL(SANDY CLAY, CLAYEY SAND, GRAVELLY CLAY, OR CLAYEY GRAVEL), SHALL HAVE A PLASTICITY INDEX OF 15 OR LESS, A LIQUID LIMIT OF 40 OR LESS, A CBR VALUE GREATER THAN 8, AND CONTAIN NO ROCK LARGER THAN 4 INCHES. OFF-SITE FILL MATERIAL SHALL BE APPROVED BY THE DEVELOPER'S REPRESENTATIVE PRIOR TO BRINGING ON SITE.

   D. AREAS THAT ARE TO BE CUT TO SUBGRADE LEVELS SHALL BE PROOF ROLLED WITH A FULLY LOADED TANDEM-AXLE DUMP TRUCK OR SIMILAR APPROVED CONSTRUCTION EQUIPMENT TO DETECT UNSUITABLE SOILS. CUT AREAS ARE TO BE SCARIFIED AND RECOMPACTED TO 95% MAXIMUM DRY DENSITY PER ASTM D698 AND TESTED BY A GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT OF BASE MATERIAL.

   E. IN ALL AREAS OF EXCAVATION, IF UNSUITABLE SOILS ARE ENCOUNTERED, A QUALIFIED GEOTECHNICAL ENGINEER SHALL RECOMMEND TO THE DEVELOPER'S CONSTRUCTION DIVISION ON THE METHODS OF UNDERCUTTING AND REPLACEMENT OF PROPERLY COMPACTED, APPROVED FILL MATERIAL. ALL PROOF ROLLING AND UNDERCUTTING SHALL BE PERFORMED DURING A SUFFICIENT DURATION OF DRY WEATHER PERIOD.

   F. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL OF DUST AND DIRT RISING AND SCATTERING IN THE AIR DURING CONSTRUCTION AND SHALL PROVIDE WATER SPRINKLING OR OTHER SUITABLE METHODS OF CONTROL. THE CONTRACTOR SHALL COMPLY WITH ALL GOVERNING REGULATIONS PERTAINING TO ENVIRONMENTAL PROTECTION.

   G. AN INDEPENDENT TESTING LABORATORY, SELECTED AND PAID BY THE CONTRACTOR, APPROVED BY THE DEVELOPER, SHALL BE RETAINED TO PERFORM CONSTRUCTION TESTING OF THE SUBGRADE FOR COMPLIANCE WITH THE MINIMUM REQUIREMENTS OF SUBGRADE COMPACTION. FOR BASE COURSE AND ASPHALT PAVING.

   H. ALL SLOPES ARE TO BE 3:1 OR FLATTER UNLESS OTHERWISE INDICATED. SLOPES STEEPER THAN 3:1, BUT FLATTER THAN 2:1 SHALL BE STABILIZED BY AN APPROVED VEGETATIVE LAYER OR OTHER APPROVED METHODS.

   I. ALL SLOPES EXCEEDING 2:1 SHALL BE PROTECTED BY RIP-RAP, CONCRETE PAVING, OR OTHER METHODS INDICATED ON THESE PLANS THAT WILL PREVENT EROSION, AND PLACED SUCH THAT THE SURFACE IS FLUSH WITH SURROUNDING GROUND AND SHAPED TO CHANNEL WATER IN DIRECTIONS INDICATED.

   J. CONTRACTOR SHALL REFER TO THE STORMWATER POLLUTION PREVENTION PLAN AND REPORT FOR STORMWATER QUALITY CONTROL INCLUDING EROSION AND SEDIMENT CONTROL. PROPER MEASURES SHALL BE PRACTICED TO PREVENT EROSION ALONG THE EDGE OF PROPERTY, TOE OF SLOPE, AND ALONG DITCHES. MUD AND DEBRIS ARE NOT ALLOWED TO FLOW ONTO ADJACENT PROPERTIES.

   K. CONTRACTOR IS TO REMOVE AND DISPOSE OF ALL DEBRIS, RUBBISH AND OTHER MATERIALS RESULTING FROM PREVIOUS AND CURRENT DEMOLITION OPERATIONS.

7. **PAVING NOTES:**

   A. ASPHALT CONCRETE SURFACE AND BASE COURSE MATERIALS SHOULD MEET OR EXCEED THE REQUIREMENTS SPECIFIED IN THE ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, LATEST EDITION.

   B. AN INDEPENDENT TESTING LABORATORY, SELECTED AND PAID BY THE CONTRACTOR, APPROVED BY THE DEVELOPER, SHALL BE RETAINED TO PERFORM CONSTRUCTION TESTING OF IN-PLACE ASPHALT CONCRETE COURSES FOR COMPLIANCE WITH REQUIREMENTS FOR THICKNESS AND SURFACE SMOOTHNESS REQUIREMENTS AS SPECIFIED IN THE CONSTRUCTION SPECIFICATIONS.

8. **CONCRETE NOTES:**

   A. CONCRETE PAVING AND STRUCTURES SHOULD CONFORM TO THE ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, LATEST EDITION.

   B. AN INDEPENDENT TESTING LABORATORY, SELECTED AND PAID BY THE CONTRACTOR, APPROVED BY THE DEVELOPER, SHALL BE RETAINED TO PERFORM CONSTRUCTION TESTING OF CONCRETE FOR COMPLIANCE WITH CONCRETE STRENGTH REQUIREMENTS AS SPECIFIED IN THE CONSTRUCTION SPECIFICATIONS.

   C. VERTICAL CONCRETE SURFACES EXPOSED TO THE GENERAL PUBLIC SHALL BE WET-RUBBED TO A SMOOTH FINISH AFTER FORMS HAVE BEEN REMOVED. HORIZONTAL SURFACES SHALL BE BROOMED AS REQUIRED IN THE CONSTRUCTION PROJECT SPECIFICATIONS.

   D. CONTRACTOR IS TO PROVIDE WEAKENED-PLANE (CONSTRUCTION) JOINTS, SECTIONING CONCRETE INTO AREAS AT 10-FOOT ON CENTERS, MAXIMUM EACH WAY. CONSTRUCT WEAKENED-PLANE JOINTS FOR A DEPTH EQUAL TO AT LEAST 1/4" CONCRETE THICKNESS. CONTRACTOR IS TO FURNISH JOINT FILLERS APPROVED BY THE DEVELOPER'S CONSTRUCTION DIVISION OR AS DETAILED ON PLANS.

9. **UTILITY NOTES:**

   A. CONSTRUCTION SHALL NOT START ON ANY PUBLIC UTILITY SYSTEM UNTIL WRITTEN APPROVAL HAS BEEN RECEIVED FROM THE APPROPRIATE UTILITY AUTHORITIES AND THE CITY OF ROGERS, AND THE CONTRACTOR HAS BEEN NOTIFIED BY EXPEDIENT CIVIL ENGINEERING, PLLC.

   B. CONTRACTOR SHALL NOT OPEN, TURN OFF, INTERFERE WITH, OR ATTACH ANY PIPE OR HOSE TO OR TAP ANY WATER MAIN BELONGING TO ROGERS WATER UTILITIES UNLESS DULY AUTHORIZED TO DO SO BY ROGERS WATER UTILITIES. ANY ADVERSE CONSEQUENCES OF ANY SCHEDULED OR UNSCHEDULED DISRUPTIONS OF SERVICE TO THE PUBLIC ARE TO BE THE LIABILITY OF THE CONTRACTOR. EXPEDIENT CIVIL ENGINEERING, PLLC AND THE DEVELOPER ARE TO BE HELD HARMLESS.

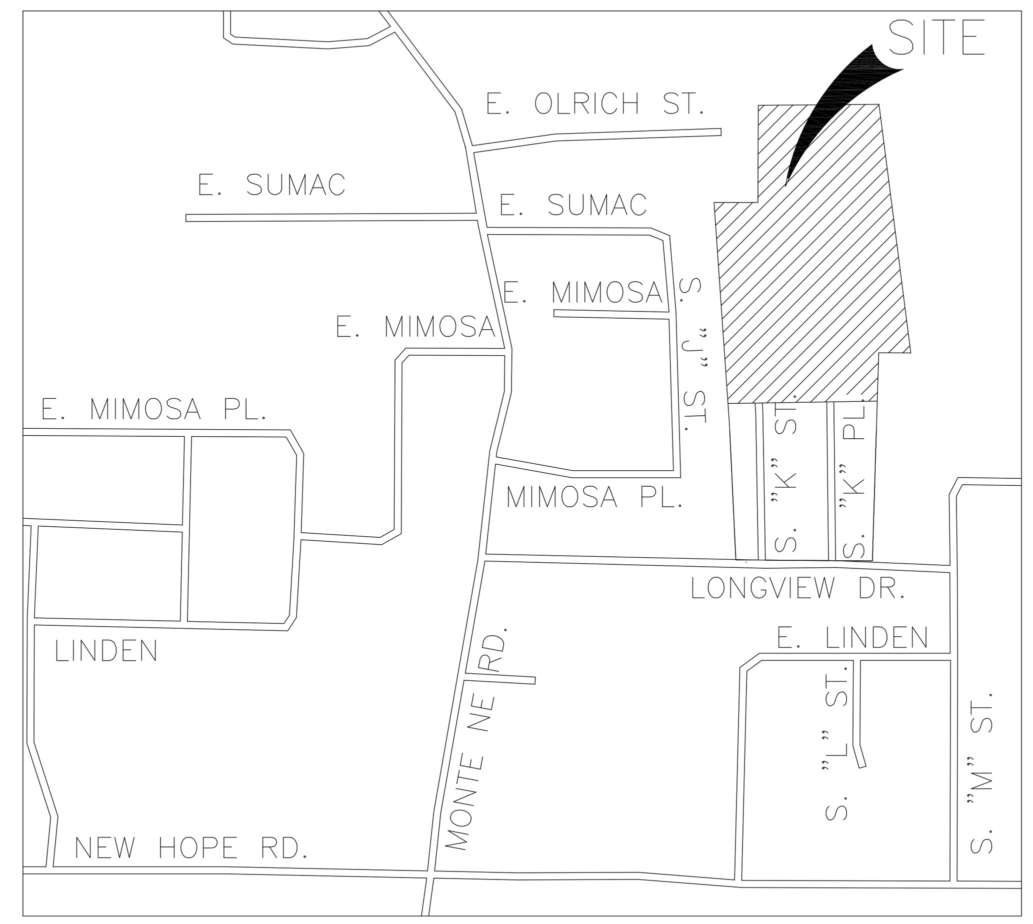
   C. DISINFECTION AND PRESSURE TESTING OF WATER LINES SHALL BE PERFORMED AND PAID FOR BY THE CONTRACTOR UNDER SUPERVISION OF A REPRESENTATIVE OF ROGERS WATER UTILITIES AND A REPRESENTATIVE OF EXPEDIENT CIVIL ENGINEERING, PLLC. CONTRACTOR SHALL NOTIFY EXPEDIENT CIVIL ENGINEERING, PLLC AT LEAST ONE WEEK IN ADVANCE, PRIOR TO ANY TESTING.

   D. ALL WATER AND SEWER MAINS THAT ARE TO BE PUBLIC LINES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST ROGERS WATER UTILITIES STANDARD SPECIFICATIONS AND THE ARKANSAS STATE HEALTH DEPARTMENT STANDARD SPECIFICATIONS, AND SHALL BE INSPECTED BY THE UTILITY INSPECTOR & EXPEDIENT CIVIL ENGINEERING, PLLC.

10. **BLASTING AND EXPLOSIVE MATERIALS:**

    A. THE CONTRACTOR IS SUBJECT TO ALL FEDERAL, STATE AND LOCAL REGULATIONS GOVERNING THE USE AND STORAGE OF EXPLOSIVE MATERIALS AND IS RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS AND LICENSES.

    B. EXPEDIENT CIVIL ENGINEERING, PLLC ACCEPTS NO RESPONSIBILITY OR LIABILITY PERTAINING TO STORAGE, USE, METHODS, PROCEDURES, SAFETY PRECAUTIONS, TECHNICAL SPECIFICATIONS, CONCERNING BLASTING AND EXPLOSIVE MATERIALS. THE CONTRACTOR SHALL HOLD THE OWNER, ENGINEER, AND THEIR ASSOCIATES HARMLESS WITH REGARD TO BLASTING AND EXPLOSIVE MATERIALS.



VICINITY MAP
NOT TO SCALE

RESOURCE LIST

NAME	ADDRESS	TELEPHONE
DEVELOPER HAYES EMPIRE CORPORATION	209 W. ELM STREET ROGERS, ARKANSAS 72756	(479) 633-3435
ARKANSAS WESTERN GAS COMPANY MR. KENNETH PETERS	1255 NORTH 13TH STREET ROGERS, ARKANSAS 72756	(479) 636-1750
ROGERS WATER UTILITIES MR. STEPHEN PONDER, PE	601 SOUTH 2ND STREET ROGERS, ARKANSAS 72756	(479) 621-1142
AT&T	627 WHITE ROAD SPRINGDALE, ARKANSAS 72766	(479) 442-1963
ROGERS SENIOR PLANNER MR. DERREL SMITH	301 W. CHESNUT STREET ROGERS, ARKANSAS 72756	(479) 621-1186
AEP/SWEPCO	500 W. HUDSON ROAD ROGERS, ARKANSAS 72756	(479) 973-2447
COX COMMUNICATIONS	4901 S. 48TH STREET SPRINGDALE, ARKANSAS 72764	(479) 717-3608
UTILITY LOCATIONS ARKANSAS ONE-CALL SYSTEM, INC.		1-800-482-8998

SHEET INDEX

No.	DESCRIPTION	PLOT DATE No.	PLOT DATE DATE
C1.0	COVER SHEET	1	3/28/2016
C2.0	EXISTING SITE, BOUNDARY, AND TOPOGRAPHIC SURVEY	1	3/28/2016
C3.0	PRELIMINARY PLAT	1	3/28/2016
C4.0	STORM WATER POLLUTION PREVENTION PLAN	1	3/28/2016
C5.0	GRADING PLAN	1	3/28/2016
C6.0	SOUTH K STREET, EAST OLRICH STREET AND WATER MAIN PLAN AND PROFILE	1	3/28/2016
C7.0	EAST MIMOSA, SOUTH K PLACE AND WATER MAIN PLAN AND PROFILE	1	3/28/2016
C8.0	EAST SUMAC STREET, SOUTH K PLACE AND WATER MAIN PLAN AND PROFILE	1	3/28/2016
C9.0	STORM SEWER LINES "A" AND "B" PLAN & PROFILE	1	3/28/2016
C10.0	STORM SEWER LINE "C", "D", "E" AND "F" PLAN & PROFILE	1	3/28/2016
C11.0	UTILITY PLAN	1	3/28/2016
C12.0	SANITARY SEWER LINE "A" PLAN & PROFILE	1	3/28/2016
C13.0	SANITARY SEWER LINES "B" AND "C" PLAN & PROFILE	1	3/28/2016
C14.0	SANITARY SEWER LINES "D" AND "E" PLAN & PROFILE	1	3/28/2016
C15.0	DETAIL SHEET	1	3/28/2016
C16.0	DETAIL SHEET	1	3/28/2016
SD-1	ROGERS SEWER DETAILS	0	3/7/2016
WD-1	ROGERS WATER DETAILS	0	3/7/2016
WD-2	ROGERS WATER DETAILS	0	3/7/2016

NOTE TO CONTRACTOR:

THE CONTRACTOR SHALL NOT TAKE ANY ADVANTAGE OF ANY APPARENT ERROR OR OMISSION IN THE PLANS OR SPECIFICATIONS. IN THE EVENT THE CONTRACTOR DISCOVERS SUCH AN ERROR OR OMISSION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER. THE ENGINEER WILL THEN MAKE SUCH CORRECTIONS AND INTERPRETATIONS AS MAY BE DEEMED NECESSARY FOR FULFILLING THE INTENT OF THE PLANS AND SPECIFICATIONS.

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

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No.11411 Jason E. Ingalls 4/8/2016

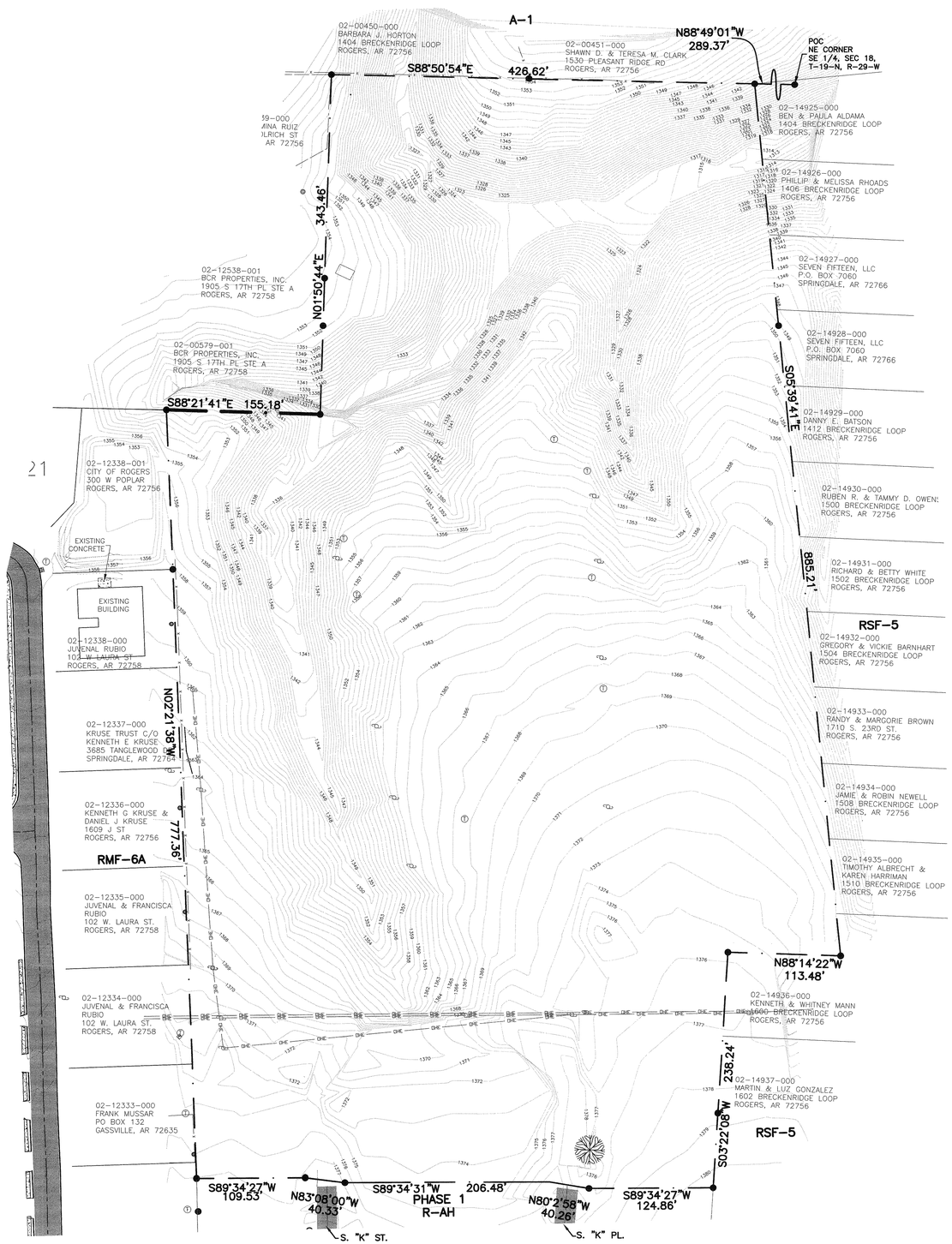
Rev	Comments	Date
1	PER CITY OF ROGERS COMMENTS	4/8/16

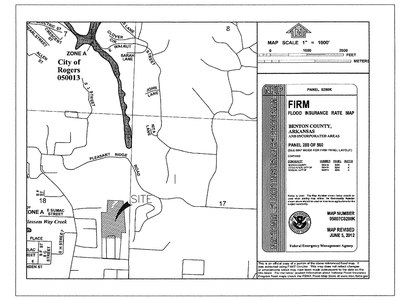
FOXBRIAR SUBDIVISION, PHASE 2
LONGVIEW DRIVE
ROGERS, ARKANSAS

JDH HOLDING, LLC
209 W. ELM ST., ROGERS, AR 72756

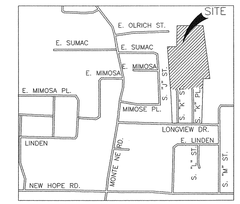
513 N. 74TH AVE
YAKIMA, WA 98908
P: (509) 759-5300
EMAIL: jason_ingalls@yahoo.com
Expedient Civil Engineering, PLLC

DRAWN BY: JEI
CHECKED BY: JEI
DATE 3/7/2016
JOB NUMBER 16-1004
SHEET NAME COVER SHEET
File No. 16-1004.DWG
C1.0

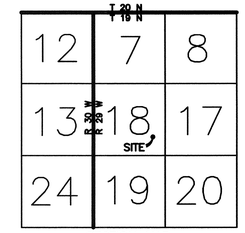




FLOOD MAP
NOT TO SCALE



VICINITY MAP
NOT TO SCALE



SECTION MAP
NOT TO SCALE

ENGINEER:

EXPEDIENT CIVIL ENGINEERING, PLLC
513 N. 74TH AVE.
YAKIMA, WA 98908

DEVELOPER:

JDH HOLDING, LLC
209 W. ELM ST.
ROGERS, AR 72756

SUBDIVISION NAME:

FOXBRIAR SUBDIVISION
PHASE 2

PROPERTY ZONING:

R-AH

BASIS OF BEARING

THIS PLAT REPRESENTS A FIELD SURVEY OF A WARRANTY DEED, REFERENCED IN DEED BOOK 2016 AT PAGE 5022 OF THE BENTON COUNTY RECORDS.

LEGEND

FOUND IRON PIN	●
PROPERTY LINE	— — · —
EXISTING UTILITY POLE	
EXISTING WATER METER	⊗
EXISTING TELEPHONE PEDESTALS	
EXISTING OVERHEAD ELECTRIC	—— OHE —— OHE ——
EXISTING GAS VALVE	GV
EXISTING ELECTRIC BOX	EB
EXISTING FENCE	—— x —— x —— x ——

SURVEY NOTES:

THIS PLAT REPRESENTS A FIELD SURVEY OF A WARRANTY DEED, REFERENCED IN DEED BOOK 2016 AT PAGE 5022 OF THE BENTON COUNTY RECORDS.

THIS SURVEY MEETS CURRENT "ARKANSAS MINIMUM STANDARDS FOR PROPERTY BOUNDARY SURVEYS AND PLATS".

ACREAGE OR AREAS NOTED HEREON, ARE TO BE CONSIDERED MORE OR LESS.

EVERY DOCUMENT OF RECORD REVIEWED AND CONSIDERED AS A PART OF THIS SURVEY IS NOTED HEREON. NO ABSTRACT, TITLE COMMITMENT, NOR RESULTS OF TITLE SEARCHES WERE PROVIDED THE SURVEYOR. THERE MAY EXIST OTHER DOCUMENTS OF RECORD OR CLAIMS AFFECTING THIS PARCEL.

ALL IMPROVEMENTS, SURFACE OR SUBSURFACE, ARE NOT NECESSARILY SHOWN. SUBSURFACE AND ENVIRONMENTAL CONDITIONS WERE NOT EXAMINED AS A PART OF THIS SURVEY.

FLOOD STATEMENT:

THE PROPERTY SHOWN HEREON LIES WITHIN FLOOD ZONE "X" AS SHOWN ON FEMA FLOOD INSURANCE RATE MAP NUMBER 05007C0280K WITH AN EFFECTIVE DATE OF JUNE 5, 2012. AREAS DETERMINED TO BE OUTSIDE THE 500 YEAR FLOOD PLAIN.

LEGAL DESCRIPTION PHASE 2:

A PART OF THE SOUTHEAST 1/4 OF SECTION 18, TOWNSHIP 19 NORTH, RANGE 29 WEST, CITY OF ROGERS, BENTON COUNTY, ARKANSAS, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT A FOUND IRON PIN FOR THE NE CORNER OF THE SE 1/4, OF SECTION 18, T-19-N, R-29-W, THENCE N88°49'01"W 289.37 FEET TO A FOUND IRON PIN FOR THE POINT OF BEGINNING, THENCE S05°39'41"E 885.21 FEET TO A FOUND IRON PIN; THENCE N88°14'22"W 113.48 FEET TO A FOUND IRON PIN; THENCE S03°22'08"W 238.24 FEET TO A FOUND IRON PIN; THENCE S89°34'27"W 124.86 FEET TO A FOUND IRON PIN; THENCE N80°23'58"W 40.26 FEET TO A FOUND IRON PIN; THENCE S89°34'31"W 206.48 FEET TO A FOUND IRON PIN; THENCE N83°08'00"W 40.33 FEET TO A FOUND IRON PIN; THENCE S89°34'27"W 109.53 FEET TO A FOUND IRON PIN; THENCE N02°21'38"W 777.36 FEET TO A FOUND IRON PIN; THENCE S88°21'41"E 155.18 FEET TO A FOUND IRON PIN; THENCE N01°50'44"E 343.46 FEET TO A FOUND IRON PIN; THENCE S88°50'54"E 426.62 FEET TO THE POINT OF BEGINNING, CONTAINING 14.35 ACRES, MORE OR LESS. SUBJECT TO ANY RIGHTS OF WAY OR EASEMENTS OF RECORD OR FACT.

I HEREBY DECLARE THAT I HAVE THIS 8TH DAY OF JANUARY, 2007, COMPLETED A SURVEY OF THE HEREON DESCRIBED PROPERTY. THE PROPERTY LINES AND CORNER MONUMENTS ARE, TO THE BEST OF MY KNOWLEDGE AND ABILITY, CORRECTLY ESTABLISHED.

TERRY L. LING AR. P.L.S. 1301

REGISTERED PROFESSIONAL LAND SURVEYOR
STATE OF ARKANSAS
NO. 1301
TERRY L. LING
SIGNATURE

Rev	Comments	Date

FOXBRIAR SUBDIVISION, PHASE 2
LONGVIEW DRIVE
ROGERS, ARKANSAS

JDH HOLDING, LLC
209 W. ELM ST., ROGERS, AR 72756

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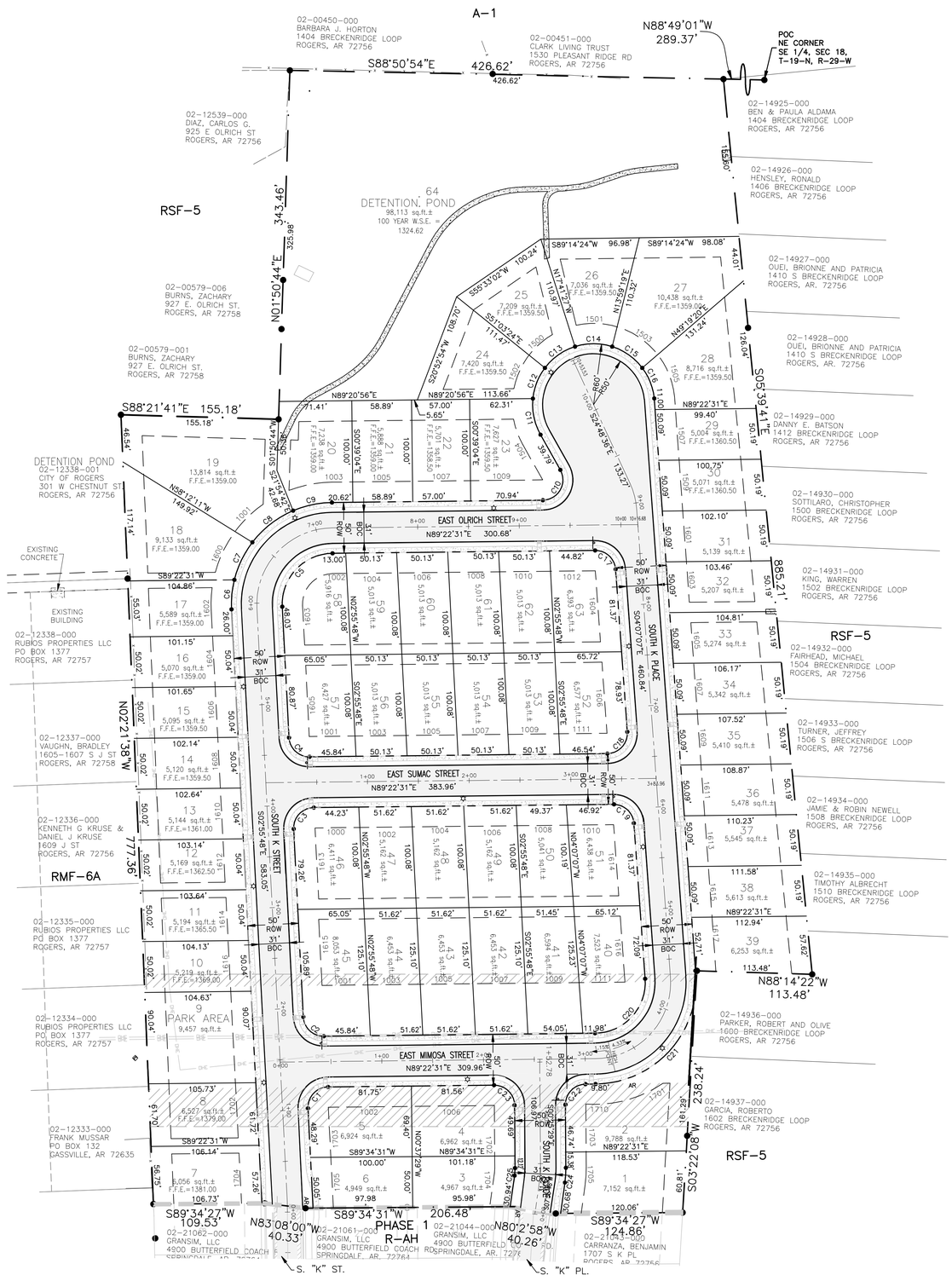
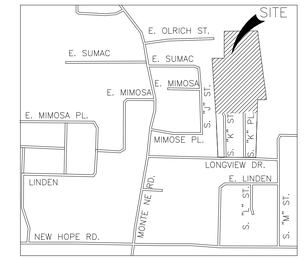


60 0 60

SCALE 1" = 60'

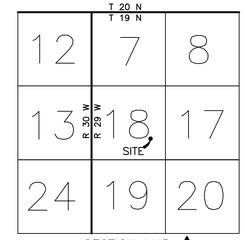
BASIS OF BEARING

ARKANSAS STATE PLANE COORDINATE SYSTEM
USING ROGERS GIS MONUMENTS.



VICINITY MAP
NOT TO SCALE

CURVE TABLE		
CURVE	LENGTH	RADIUS
C1	32.22	20.00
C2	30.61	20.00
C3	32.22	20.00
C4	30.61	20.00
C5	80.55	50.00
C6	29.29	100.00
C7	41.24	100.00
C8	51.31	100.00
C9	39.26	100.00
C10	41.43	20.00
C11	36.87	59.99
C12	32.83	59.99
C13	36.97	59.99
C14	37.17	59.99
C15	36.82	59.99
C16	32.63	59.99
C17	30.20	20.00
C18	32.64	20.00
C19	30.20	20.00
C20	81.59	50.00
C21	163.18	100.00
C22	31.35	20.00
C23	31.49	20.00
C24	14.58	100.00
C25	7.29	50.00



SECTION MAP
NOT TO SCALE

SURVEY NOTES:

THIS PLAT REPRESENTS A FIELD SURVEY OF A WARRANTY DEED, REFERENCED IN DEED BOOK 2004 AT PAGE 14475 AND DEED BOOK 2016 AT PAGE 5022 OF THE BENTON COUNTY RECORDS.

THIS SURVEY MEETS CURRENT "ARKANSAS MINIMUM STANDARDS FOR PROPERTY BOUNDARY SURVEYS AND PLATS".

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FLOOD STATEMENT:

THE PROPERTY SHOWN HEREON LIES WITHIN FLOOD ZONE "X" AS SHOWN ON FEMA FLOOD INSURANCE RATE MAP NUMBER 05007C0160E WITH AN EFFECTIVE DATE OF JUNE 5, 2012. AREAS DETERMINED TO BE OUTSIDE THE 500 YEAR FLOOD PLAIN.

LEGAL DESCRIPTION PHASE 2:

A PART OF THE SOUTHEAST 1/4 OF SECTION 18, TOWNSHIP 19 NORTH, RANGE 29 WEST, CITY OF ROGERS, BENTON COUNTY, ARKANSAS, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT A FOUND IRON PIN FOR THE NE CORNER OF THE SE 1/4, OF SECTION 18, T-19-N, R-29-W, THENCE N88°49'01"W 289.37 FEET TO A FOUND IRON PIN FOR THE POINT OF BEGINNING, THENCE S05°39'41"E 885.21 FEET TO A FOUND IRON PIN; THENCE N88°14'22"W 113.48 FEET TO A FOUND IRON PIN; THENCE S03°22'08"W 238.24 FEET TO A FOUND IRON PIN; THENCE S89°34'27"W 124.86 FEET TO A FOUND IRON PIN; THENCE N80°23'58"W 40.26 FEET TO A FOUND IRON PIN; THENCE S89°34'31"W 206.48 FEET TO A FOUND IRON PIN; THENCE N83°08'00"W 40.33 FEET TO A FOUND IRON PIN; THENCE S89°34'27"W 109.53 FEET TO A FOUND IRON PIN; THENCE N02°21'38"W 777.36 FEET TO A FOUND IRON PIN; THENCE S88°21'41"E 155.18 FEET TO A FOUND IRON PIN; THENCE N01°50'44"E 343.46 FEET TO A FOUND IRON PIN; THENCE S88°50'54"E 426.62 FEET TO THE POINT OF BEGINNING, CONTAINING 14.35 ACRES, MORE OR LESS. SUBJECT TO ANY RIGHTS OF WAY OR EASEMENTS OF RECORD OR FACT.

I HEREBY DECLARE THAT I HAVE THIS 4TH DAY OF APRIL, 2016, COMPLETED A SURVEY OF THE HEREON DESCRIBED PROPERTY. THE PROPERTY LINES AND CORNER MONUMENTS ARE, TO THE BEST OF MY KNOWLEDGE AND ABILITY, CORRECTLY ESTABLISHED.

_____
TERRY L. GING, AR. P.L.S. 1301

LEGEND

FOUND IRON PIN	●
PROPERTY LINE	
EXISTING OVERHEAD ELECTRIC	OHE
EXISTING BARBED WIRE FENCE	x
EXISTING EASEMENT	
EXISTING GAS METER	
EXISTING ELECTRIC TRANSFORMER	
PROPOSED EASEMENT	
PROPOSED CENTERLINE OF ROAD	
PROPOSED RIGHT OF WAY	
PROPOSED CURB	
PROPOSED BUILDING SETBACK	
PROPOSED LOT LINE	
PROPOSED 5' SIDEWALK	
PROPOSED STREET LIGHT	
PROPOSED STOP SIGN	
PROPOSED UTILITY EASEMENT	U.E.
PROPOSED DRAINAGE EASEMENT	D.E.
PROPOSED STREET NUMBER	1010

ENGINEER:

EXPEDIENT CIVIL ENGINEERING PLLC
513 N 74th AVE.
YAKIMA, WA. 98908
PHONE 509-759-5300

SUBDIVISION NAME:

FOXBRIAR SUBDIVISION, PHASE 2

PROPOSED PROPERTY USE:

RESIDENTIAL
AFFORDABLE HOUSING

DEVELOPER:

JDH HOLDINGS LLC
2102 SE 14TH STREET
BENTONVILLE, AR.72712

PROPERTY ZONING:

R-AH

ZONING REQUIREMENTS:

MAXIMUM STRUCTURE HEIGHT:

35 FEET (2 ½ STORIES) ABOVE FINISHED GRADE

ACCESSORY STRUCTURE: 16 FEET EXCEPT STORAGE BUILDINGS WHICH SHALL NOT EXCEED 10 FEET.

BUILDING SETBACKS:

SIDE YARD (INTERIOR)= 5'
SIDE YARD (EXTERIOR)= 20'
FRONT YARD= 25'
REAR YARD= 20'

DENSITY AND LOT SIZE:

MINIMUM LOT AREA: 5000 SQUARE FEET
MINIMUM LOT WIDTH: 50 FEET
MINIMUM LOT DEPTH: 100 FEET
MAXIMUM BUILDING COVERAGE: 40%
MINIMUM OPEN SPACE: NOT LESS THEN 30%

6	REVISED FLOOD NOTE	TLG	04/04/16	TLG	04/04/16
5	ADDED STREET ADDRESS	TLG	03/24/16	TLG	03/24/16
4	UPDATED PER SURVEYOR	TLG	02/25/16	TLG	02/25/16
3	REVISED PER CITY OF ROGERS	JDJ	03/26/07	JEI	03/26/07
2	REVISED PER CITY OF ROGERS	JDJ	01/08/07	JEI	01/08/07
1	REVISED PER CITY OF ROGERS	JRH	12/21/06	JEI	12/21/06

TERRY GING SERVICES

212 SE Moores Place
O-(479) 254 - 2909

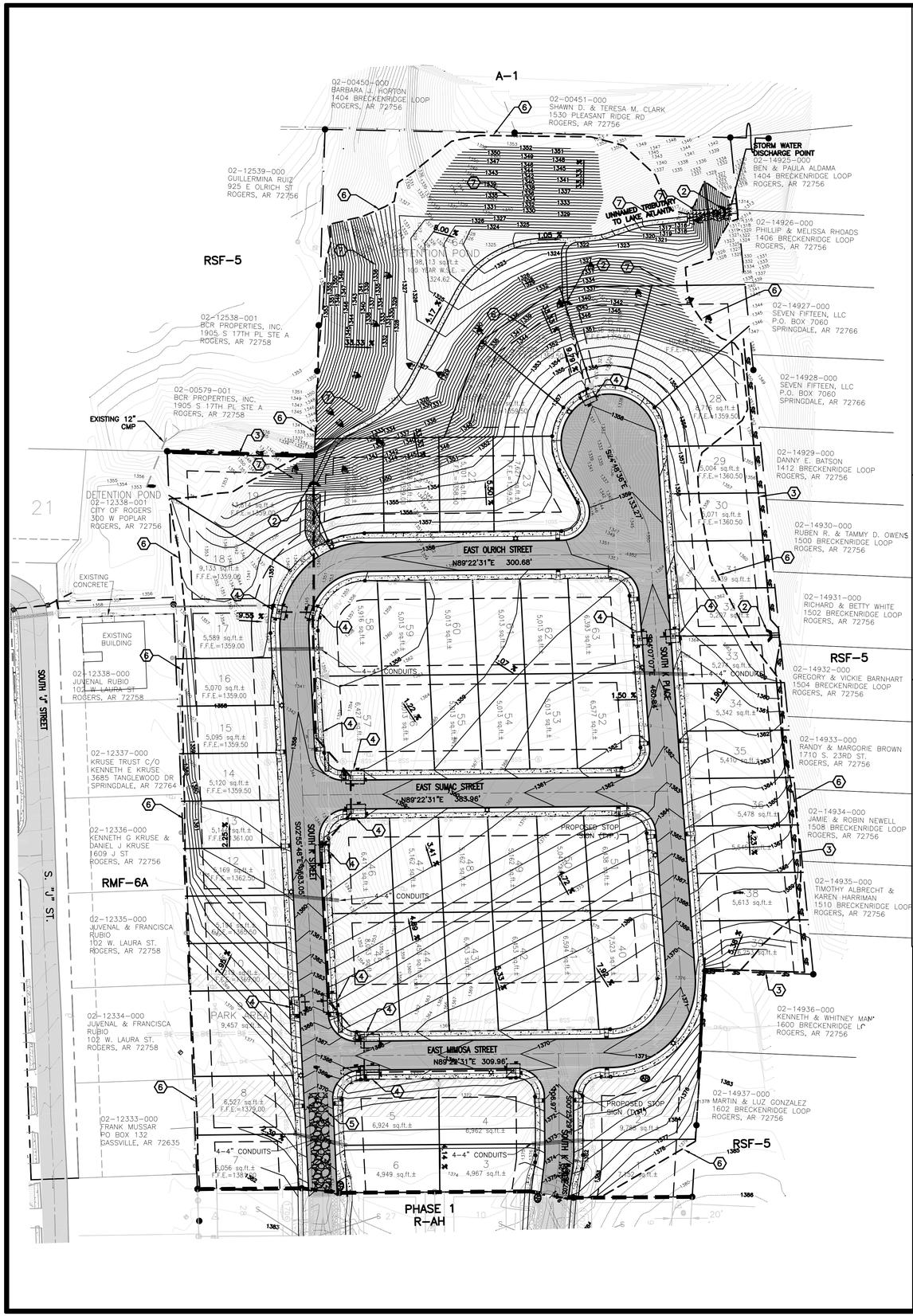
Bentonville, Arkansas 72712
C-(479) 621-3592

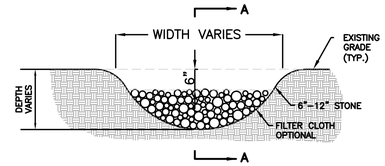
REGISTERED
STATE OF ARKANSAS
NO.1301
SIGNATURE
TERRY L. GING
PROFESSIONAL LAND SURVEYOR

FOXBRIAR
SUBDIVISION
PH2
LONGVIEW DRIVE
ROGERS,ARKANSAS

PRELIMINARY
PLAT

CHECKED:	TLG 2/25/16
DRAWN:	
PROJECT MGR:	
FILE NAME:	489-01DWG
PROJECT No.:	489-01
PLOT DATE:	4/07/16
REV.:	6
SHEET No.:	#

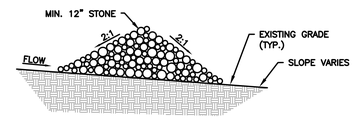




DOWNSTREAM VIEW
NOT TO SCALE

NOTE:

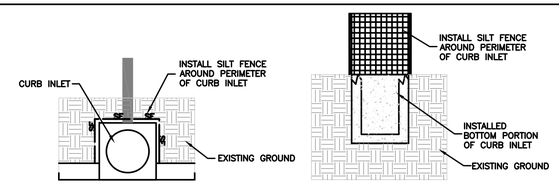
1. ROCK CHECK DAMS ARE TO BE USED FOR EROSION CONTROL AND SEDIMENTATION.
2. HEIGTH VARIES WITH DEPTH OF DITCH.



CROSS SECTION "A–A"
NOT TO SCALE

ROCK CHECK DAM
NOT TO SCALE

DETAIL 1

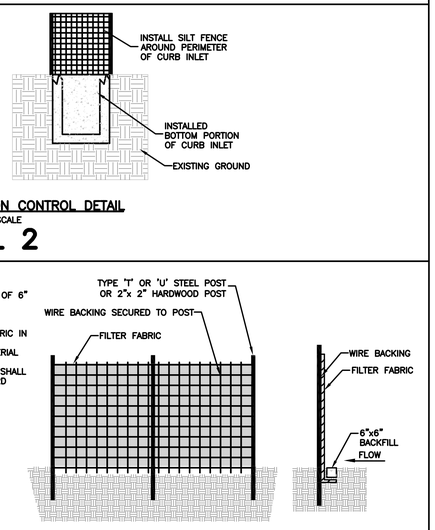


CURB INLET EROSION CONTROL DETAIL
NOT TO SCALE

DETAIL 2

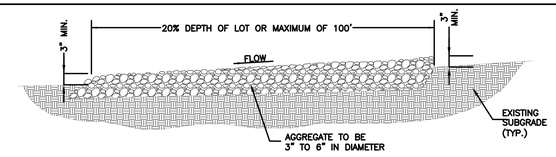
NOTES:

1. ADJOINING FILTER CLOTH SECTIONS MUST OVERLAP A MINIMUM OF 6" AND FOLDED.
2. STAKES ARE TO BE EMBEDDED A MINIMUM OF 12 INCHES.
3. EXCAVATE SMALL TRENCH AT BASE OF SILT FENCE AND PLACE FABRIC ALONG BOTTOM OF TRENCH. COMPACT SOIL OVER FABRIC IN TRENCH AS SHOWN IN DETAIL.
4. FABRIC FOR SILT FENCE MAY BE WOVEN OR NON–WOVEN MATERIAL AS SPECIFIED IN THE CONSTRUCTION SPECIFICATIONS.
5. SEDIMENT AND DEBRIS ACCUMULATED BEHIND THE SILT FENCE SHALL BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY ONE THIRD THE HEIGTH OF THE FENCE.
6. IMMEDIATELY REPLACE CLOGGED OR DAMAGED FENCE.

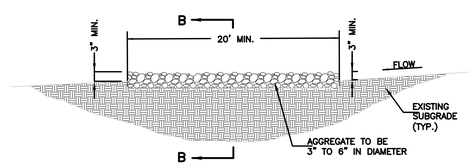


SILT FENCE DETAIL
NOT TO SCALE

DETAIL 3



SECTION "B–B"
NOT TO SCALE



FRONT SECTION
NOT TO SCALE

CONSTRUCTION ENTRANCE
NOT TO SCALE

DETAIL 4

north

0 60 120 180

1" = 60'–0"

LEGEND

- FOUND IRON PIN
- PROPERTY LINE
- EXISTING OVERHEAD ELECTRIC
- EXISTING BARBED WIRE FENCE
- EXISTING GAS METER
- EXISTING ELECTRIC TRANSFORMER
- EXISTING CONTOUR (1360)
- PROPOSED CONTOUR (1360)
- PROPOSED EASEMENT
- PROPOSED CENTERLINE OF ROAD
- PROPOSED RIGHT OF WAY
- PROPOSED CURB
- PROPOSED 8" WATER MAIN (8W)
- PROPOSED 8" SANITARY SEWER MAIN (8SS)
- PROPOSED 10" SANITARY SEWER MAIN (10SS)
- PROPOSED FIRE HYDRANT
- PROPOSED GATE VALVE
- PROPOSED SANITARY SEWER MANHOLE
- PROPOSED 5' SIDEWALK
- PROPOSED SILT FENCE (SF)
- PROPOSED CURB INLET EROSION PROTECTION
- LIMITS OF DISTURBANCE

GENERAL NOTES:

1. RUNOFF COEFFICIENT TO BE 0.55 AFTER COMPLETION OF CONSTRUCTION
2. THERE ARE NO AREAS TO BE PROTECTED FROM GRADING ON THIS SITE.
3. ALL DISTURBED AREAS SHALL BE STABILIZED BY EITHER SEEDING OR SODDING AS APPROVED BY THE INSPECTOR.
4. THE DETENTION BASIN IS EXPECTED TO UNDERGO EXCAVATION. OTHER AREAS OF EXCAVATION SHALL BE DICTATED BY SUITABILITY OF MATERIAL EXPOSED DURING CONSTRUCTION.
5. THE DETENTION BASIN AREA IS ALSO INTENDED TO SERVE AS A TEMPORARY SEDIMENTATION BASIN FOR THE SITE WITH AN INVERT 2" ABOVE THE BOTTOM POND GRADE TO CAPTURE THE FIRST INCH OF INITIAL RAINFALL.
6. THE STORM WATER POLLUTION PREVENTION MEASURES PRESENTED ON THIS PLAN AND ITS ASSOCIATED REPORT ARE INTENDED TO MINIMIZE POLLUTANT LOADS OCCURRING IN STORM WATER DISCHARGES, FROM THE CONSTRUCTION SITE. THE CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED BEYOND THE COMPLETION OF ALL CONSTRUCTION ACTIVITIES, OR UNTIL THE SITE IS OFFICIALLY ACCEPTED BY THE CITY OF ROGERS, WHICHEVER IS THE LATER.
7. IMPLEMENTATION, INSTALLATION, APPLICATION, AND MAINTENANCE OF THE STORM WATER POLLUTION PREVENTION CONTROL MEASURES SHALL BE IN COMPLIANCE WITH APPLICABLE STATE OR LOCAL WASTE DISPOSAL, SANITARY SEWER, OR SEPTIC SYSTEM REGULATIONS.
8. A GRADING PERMIT SHALL BE OBTAINED FROM THE CITY OF ROGERS PRIOR TO THE COMMENCEMENT OF EARTHWORK.
9. NO TMDL'S ARE LISTED FOR THE TRIBUTARY TO LAKE ATLANTA IN TABLE 1 OF THE WATER QUALITY LIMITED WATER BODIES 303(d) LIST FOR RIVERS AND STREAMS.
10. ALL NON–STORM WATER RUNOFF SHALL BE MINIMIZED TO THE EXTENT PRACTICABLE. NO TRUCK WASHING SHALL BE ALLOWED ON SITE.

EROSION AND SEDIMENT CONTROL NOTES:

1. INSTALL EROSION AND SEDIMENT CONTROL MEASURES AND CONSTRUCTION ENTRANCES AT LOCATIONS AS INDICATED ON PLANS PRIOR TO EARTHWORK.
2. STRAW BALES SHALL BE PLACED @ 200' ON CENTERS AFTER INITIAL EXCAVATION FOR ALL DITCHES.
3. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE LOCATED AND MAINTAINED SUCH THAT THE LOCATION DOES NOT INTERFERE WITH CONSTRUCTION ACTIVITIES.
4. REFER TO THE CONSTRUCTION STORMWATER POLLUTION PREVENTION PLAN (SWPPP) REPORT FOR IMPLEMENTATION, INSTALLATION, AND/OR APPLICATION REQUIREMENTS AND SEQUENCES.
5. CONSTRUCT DETENTION POND AND TEMPORARY OVERFLOW STRUCTURE.
6. CURB INLET SEDIMENT CONTROL SHALL BE PLACED AND MAINTAINED AT EACH INLET.
7. CONSTRUCT THE CONCRETE TRICKLE CHANNEL BEFORE THE FINAL PROJECT WALK–THROUGH AS PART OF THE PROJECT SUBSTANTIAL COMPLETION.
8. INSTRUCTION/DIRECTION OF THE INSPECTOR SHALL PREVAIL OVER THE CONSTRUCTION SWPPP PLAN.

MAINTENANCE AND OPERATION NOTES:

1. AN INSPECTION SHALL BE MADE BY JDH HOLDING, LLC OR ASSIGNED REPRESENTATIVE (INSPECTOR) WITHIN 24 HOURS OF A RAINFALL EVENT OF 1/2" OR MORE. ALL OBSERVED DEFICIENCIES IN BEST MANAGEMENT PRACTICES (BMP'S) WILL BE RECORDED.
2. SEDIMENT SHALL BE REMOVED BEHIND SILT FENCING OR STRAW BALES ONCE SEDIMENT REACHES 1/3 THE HEIGHT OF THE SILT FENCE OR STRAW BALE.

KEYNOTES:

1. CONCRETE ENERGY DISSIPATOR PAD. REFER TO PLAN FOR SIZE. SEE DETAIL **3/C15.0**
2. PROPOSED TEMPORARY ROCK CHECK DAM. SEE DETAIL **1/C4.0**
3. PROPOSED SILT FENCE. SEE DETAIL **3/C4.0**
4. CURB INLET EROSION CONTROL. SEE DETAIL **2/C4.0**
5. CONSTRUCTION ENTRANCE. SEE DETAIL **4/C4.0**
6. LIMITS OF DISTURBANCE.
7. SIDES AND BOTTOM OF DETENTION POND TO BE SODDED. LIMITS OF SOD TO BE DETERMINED NEAR END OF CONSTRUCTION COMPLETION.

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STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No.11411 Jason E. Ingalls 4/8/2016

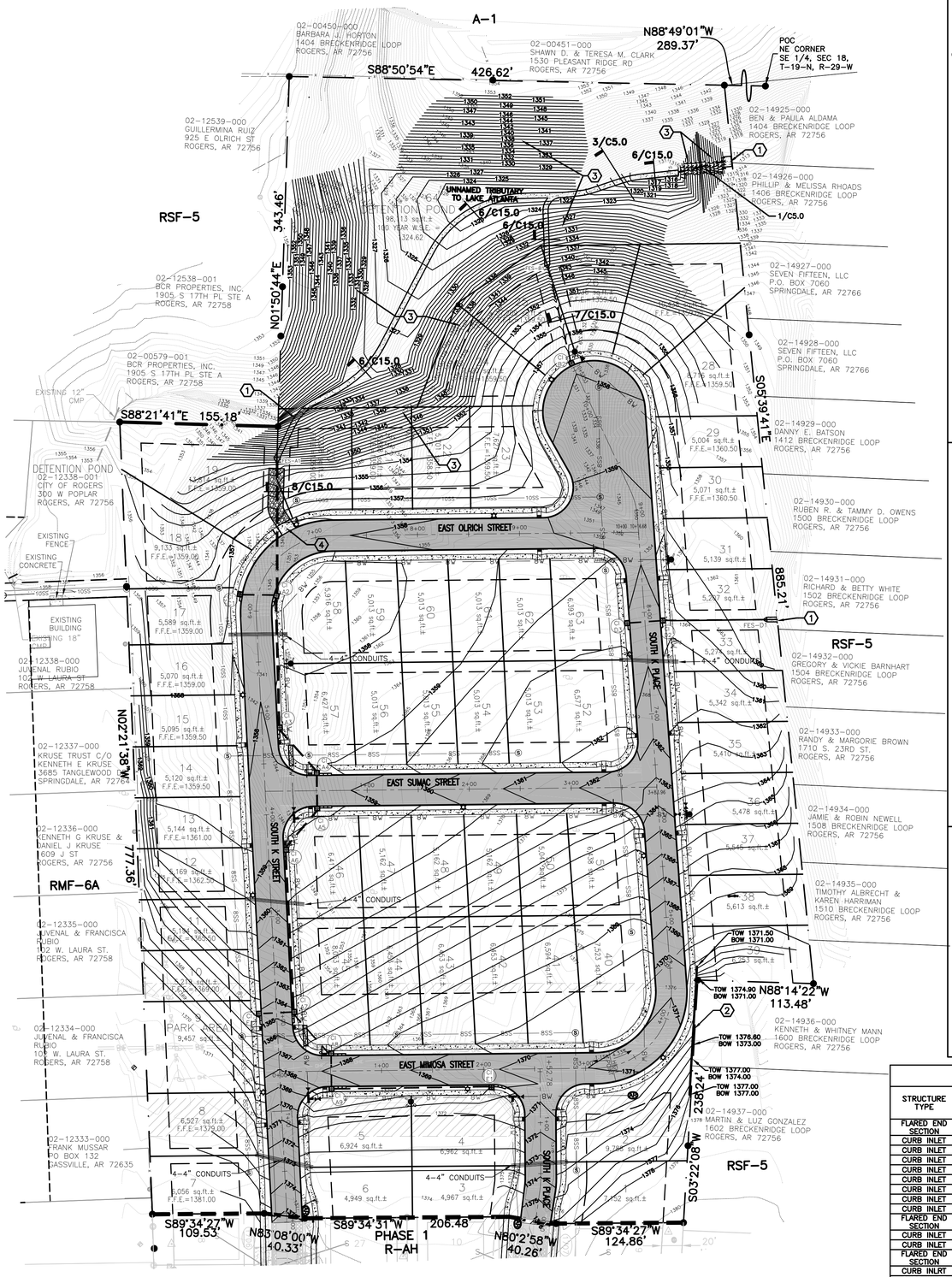
Rev	Comments	Date
1	PER CITY OF ROGERS COMMENTS	4/8/16

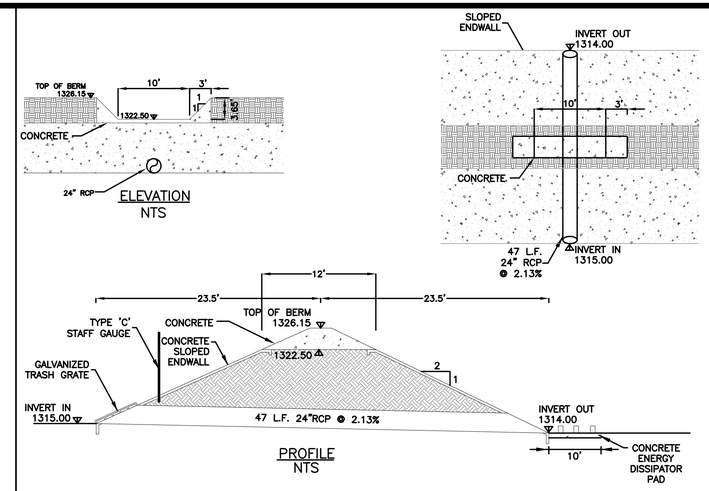
FOXBRIAR SUBDIVISION, PHASE 2
LONGVIEW DRIVE
ROGERS, ARKANSAS

JDH HOLDING, LLC
209 W. ELM ST., ROGERS, AR 72756

Expedient Civil Engineering, PLLC
512 S. 7th Ave
Siloam Springs, AR 72761
P: (501) 759-5300
EMAIL: jason_ingalls@yahoo.com

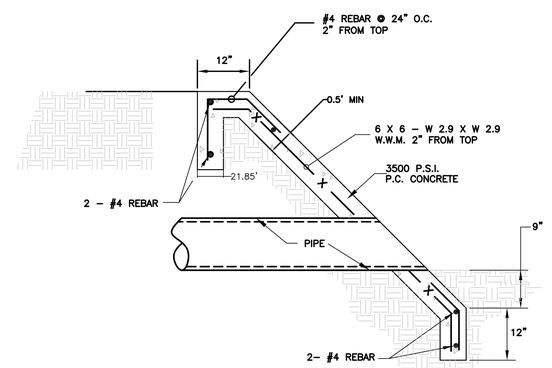
DRAWN BY: JEI
CHECKED BY: JEI
DATE 3/7/2016
JOB NUMBER 16-1004
SHEET NAME STORMWATER POLLUTION PREVENTION PLAN
File No. 16-1004.DWG
C4.0





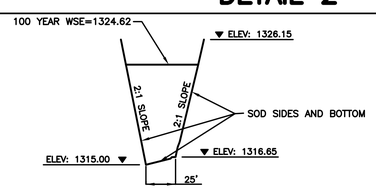
DETENTION OUTLET STRUCTURE
NTS

DETAIL 1



CONCRETE ENDWALL
NTS

DETAIL 2



SECTION DETENTION POND
NOT TO SCALE

DETAIL 3

DRAINAGE TABLE

STRUCTURE TYPE	STRUCTURE	BOX SIZE (INSIDE DIMO LENGTH X WIDTH	EXTENSION LENGTH LEFT	EXTENSION LENGTH RIGHT	RIM	INVERT ELEVATION
FLARED END SECTION	A1	–	–	–	–	1348.70
CURB INLET	A2	4' X 4'	12	–	1357.72	1349.75
CURB INLET	A3	4' X 4'	–	–	1358.03	1350.40
CURB INLET	A4	4' X 4'	16	–	1358.45	1350.70
CURB INLET	A5	4' X 4'	16	–	1358.45	1350.90
CURB INLET	A6	4' X 4'	16	–	1359.50	1353.15
CURB INLET	A7	4' X 4'	16	–	1365.76	1359.06
CURB INLET	A8	4' X 4'	16	–	1369.68	1360.93
CURB INLET	A9	4' X 4'	12	–	1369.68	1362.18
FLARED END SECTION	B1	4' X 4'	–	–	–	1342.00
CURB INLET	B2	4' X 4'	4	–	1357.78	1354.35
CURB INLET	C1	4' X 4'	8	–	1357.42	1353.37
FLARED END SECTION	D1	4' X 4'	–	–	–	1354.50
CURB INLRT	D2	4' X 4'	4	–	1360.56	1354.85
CURB INLET	D3	4' X 4'	4		1360.35	1355.00
CURB INLET	E1	4' X 4'	16	–	1372.30	1367.67
CURB INLET	F1	4' X 4'	12	–	1365.62	1359.61

GRADING NOTES:

A. THE CONSTRUCTION AREA SHALL BE CLEARED, GRUBBED, AND STRIPPED OF TOPSOIL AND ORGANIC MATTER FROM ALL AREAS TO BE OCCUPIED BY BUILDINGS AND PAVING. TOPSOIL FOR REPLACEMENT ON SLOPES MAY BE STOCKPILED ON SITE. EXCESS TOPSOIL MAY BE WASTED IN FILL SLOPES PROVIDED THAT NO TOPSOIL WILL BE WASTED WITHIN 10 FEET OF THE EDGE OF THE BUILDING OR PAVED AREA. BURNING OF TIMBER AND DEBRIS WILL NOT BE PERMITTED UNLESS APPROVAL IS OBTAINED FROM GOVERNING OFFICIALS.

B. AREAS TO RECEIVE FILL SHALL BE SCARIFIED AND THE TOP 8-INCH DEPTH COMPACTED TO 95 PERCENT STANDARDPROCTOR MAXIMUM DRY DENSITY. ANY UNSUITABLE AREAS SHALL BE UNDERCUT AND REPLACED WITH SUITABLE MATERIAL BEFORE ANY FILL MATERIAL CAN BE APPLIED.

C. OFF-SITE FILL MATERIAL SHALL HAVE A PLASTICITY INDEX OF 20 OR LESS, A LIQUID LIMIT OF 40 OR LESS, AND CONTAIN NO ROCK LARGER THAN FOUR INCHES. OFF-SITE FILL MATERIAL SHALL BE APPROVED BY THE DEVELOPER'S REPRESENTATIVE PRIOR TO BRINGING ON SITE.

D. AREAS THAT ARE TO BE CUT TO SUBGRADE LEVELS SHALL BE PROOF ROLLED WITH A FULLY LOADED TANDEM-AXLE DUMP TRUCK OR SIMILAR APPROVED CONSTRUCTION EQUIPMENT TO DETECT UNSUITABLE SOIL CONDITIONS. CUT AREAS ARE TO BE SCARIFIED AND RECOMPACTED TO 95 PERCENT STANDARD PROCTOR MAXIMUM DRY DENSITY AND TESTED BY A GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT OF BASE MATERIAL.

E. IN ALL AREAS OF EXCAVATION, IF UNSUITABLE SOIL CONDITIONS ARE ENCOUNTERED, A QUALIFIED GEOTECHNICAL ENGINEER SHALL RECOMMEND TO THE CONTRACTOR THE METHODS OF UNDERCUTTING AND REPLACEMENT OF PROPERLY COMPACTED, APPROVED FILL MATERIAL. ALL PROOF ROLLING AND UNDERCUTTING SHALL BE PERFORMED DURING A PERIOD OF DRY WEATHER.

F. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL OF DUST AND DIRT RISING AND SCATTERING IN THE AIR DURING CONSTRUCTION AND SHALL PROVIDE WATER SPRINKLING AND OTHER SUITABLE METHODS OF CONTROL. THE CONTRACTOR SHALL COMPLY WITH GOVERNING REGULATIONS PERTAINING TO ENVIRONMENTAL PROTECTION.

G. ALL SLOPES EXCEEDING 2H:1V SHALL BE PROTECTED BY CONCRETE PAVING OR OTHER METHODS INDICATED ON THESE PLANS THAT WILL PREVENT EROSION, AND BE PLACED SUCH THAT THE SURFACE IS FLUSH WITH SURROUNDING GROUND AND SHAPED TO CHANNEL WATER IN DIRECTIONS INDICATED.

H. CONTRACTOR SHALL USE BALES OF STRAW OR OTHER MEANS OF CONTROLLING EROSION ALONG THE EDGE OF THE PROPERTY. OTHER BOTTOM OF SLOPE LOCATIONS AND ALONG DITCHES. MUD AND DEBRIS SHALL NOT BE ALLOWED TO FLOW ONTO ADJACENT PROPERTY.

I. CONTRACTOR IS TO REMOVE AND DISPOSE OF ALL DEBRIS, RUBBISH AND OTHER MATERIALS RESULTING FROM PREVIOUS AND CURRENT DEMOLITION OPERATIONS.

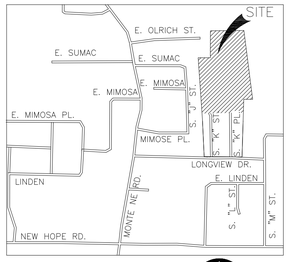
KEYNOTES:

1. CONCRETE ENERGY DISSIPATOR PAD. REFER TO PLAN FOR SIZE. SEE DETAIL **3/C15.0**
2. PROPOSED KEYSTONE RETAINING WALL. SEE DETAIL **2/C16.0**
3. MAXIMUM 3:1 GRADING.
4. 15' WIDE CONCRETE ACCESS DRIVE TO BACK OF SIDEWALK WITH 15' WIDE GRAVEL DETENTION ACCESS DRIVE.

north

0 60 120 180

1" = 60'-0"



VICINITY MAP
NOT TO SCALE

north

LEGEND

FOUND IRON PIN	
PROPERTY LINE	
EXISTING OVERHEAD ELECTRIC	OHE
EXISTING BARBED WIRE FENCE	x
EXISTING GAS METER	
EXISTING ELECTRIC TRANSFORMER	
EXISTING CONTOUR	1360
PROPOSED CONTOUR	1360
PROPOSED EASEMENT	
PROPOSED CENTERLINE OF ROAD	
PROPOSED RIGHT OF WAY	
PROPOSED CURB	
PROPOSED 8" WATER MAIN	8W
PROPOSED 8" SANITARY SEWER MAIN	8SS
PROPOSED 10" SANITARY SEWER MAIN	10SS
PROPOSED FIRE HYDRANT	
PROPOSED GATE VALVE	
PROPOSED SANITARY SEWER MANHOLE	
PROPOSED 5' SIDEWALK	

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No.11411
Jason E. Ingalls
7/8/2016

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FOXBRIAR SUBDIVISION, PHASE 2
LONGVIEW DRIVE
ROGERS, ARKANSAS

JDH HOLDING, LLC
209 W. ELM ST., ROGERS, AR 72756

513 N. 7th AVE
SUITE A, 141-B
P: (509) 759-5300
EMAIL: jason_ingalls@yahoo.com

Expedient Civil Engineering, PLLC

DRAWN BY: JEI
CHECKED BY: JEI
DATE 3/7/2016
JOB NUMBER 16-1004
SHEET NAME
GRADING PLAN
File No. 16-1004.DWG
C5.0

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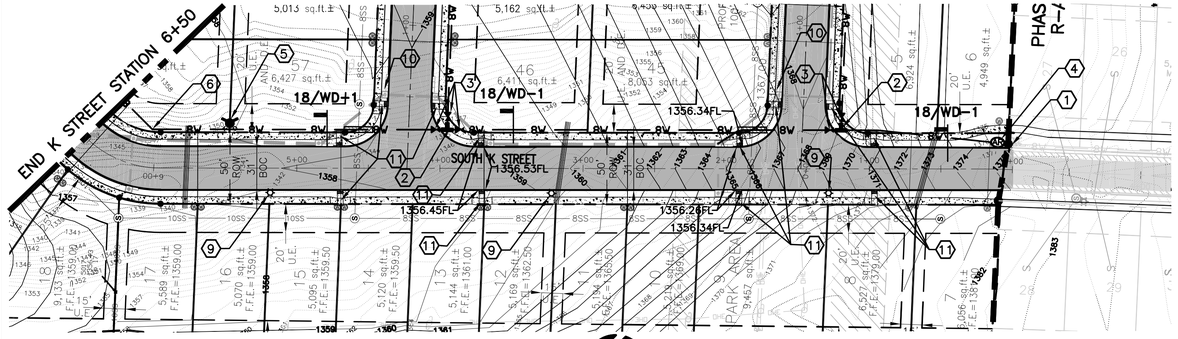
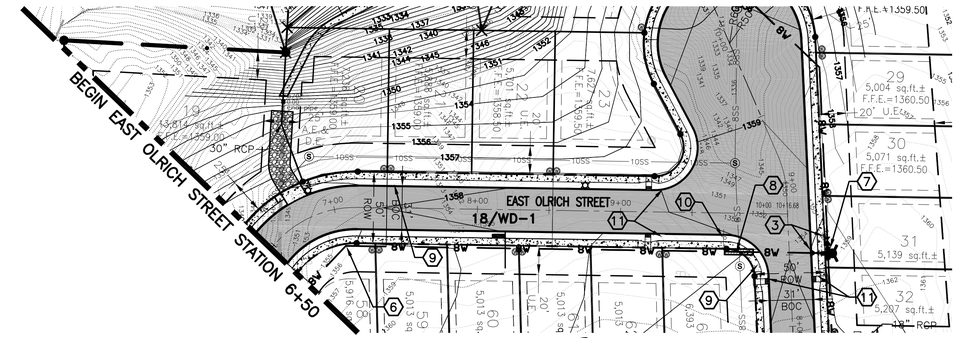


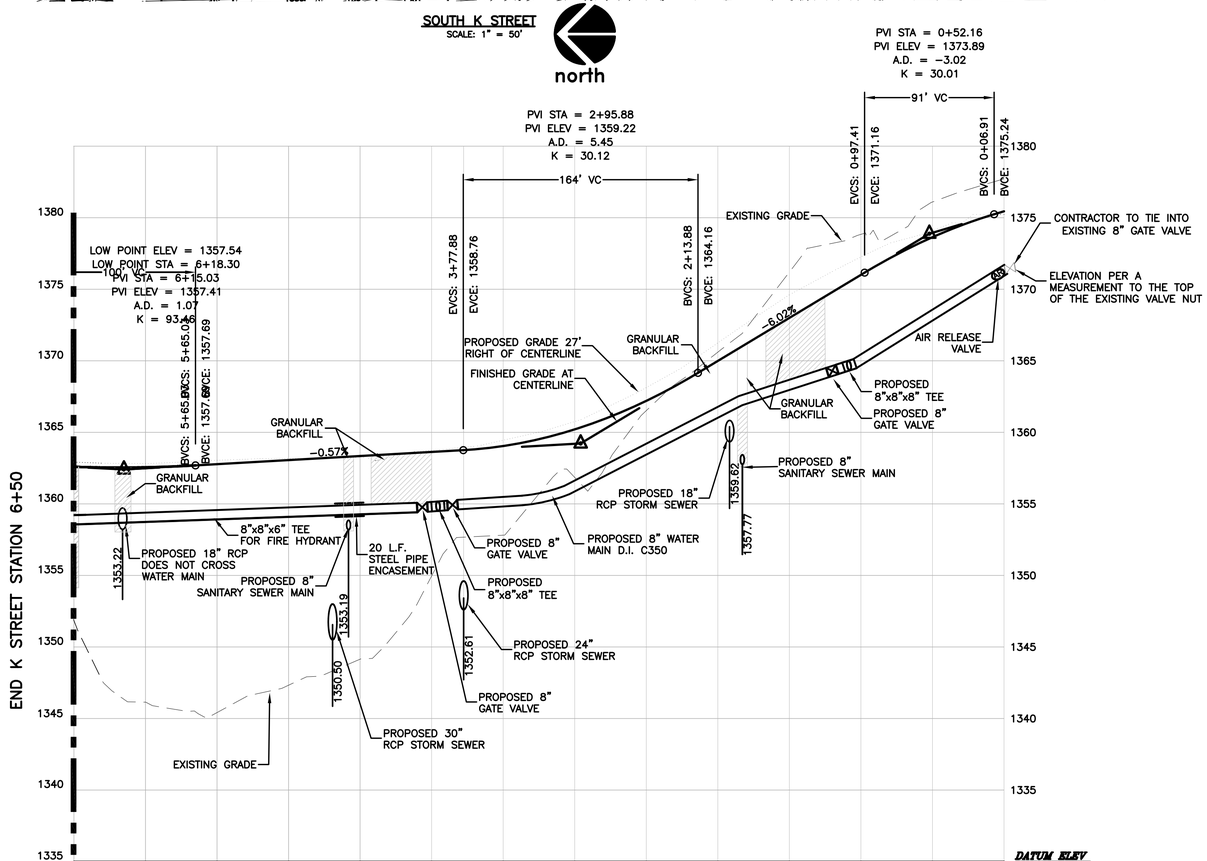
SOUTH K STREET
SCALE: 1" = 50'

north

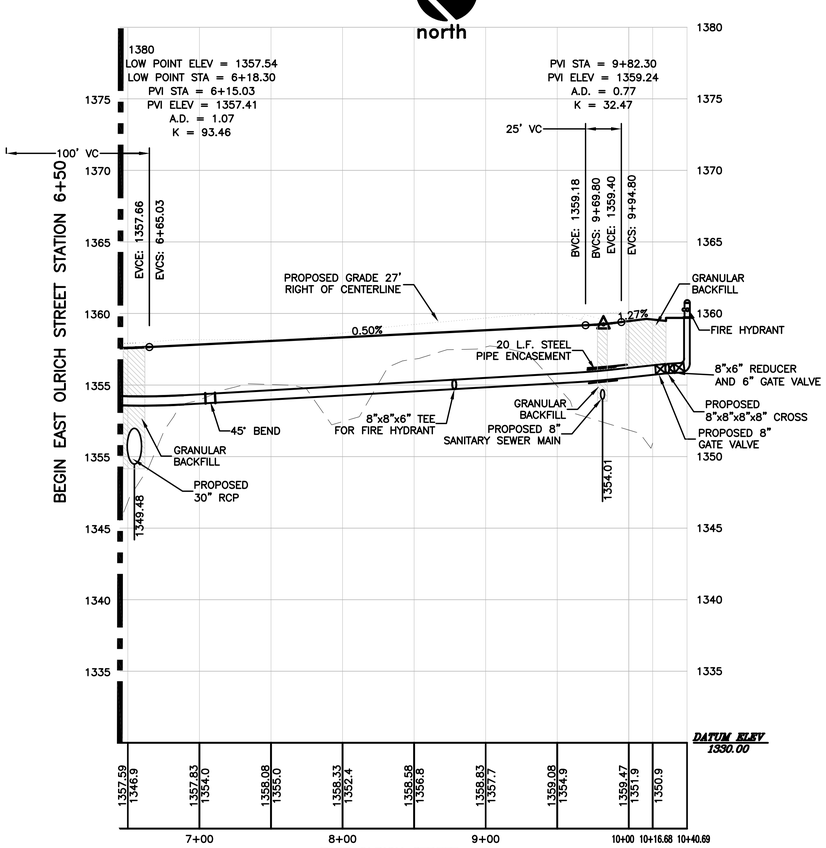


EAST OLRICH STREET
SCALE: 1" = 50'

north



SOUTH K STREET
HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 5'



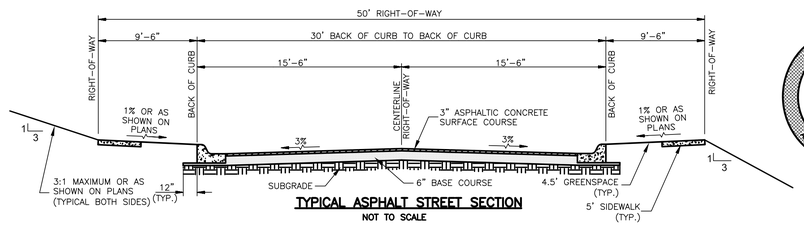
EAST OLRICH STREET
HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 5'

KEYNOTES:

1. TIE PROPOSED 8" WATER MAIN TO EXISTING 8" PLUGGED GATE VALVE.
2. 8"MJX8"MJX8"MJ TEE AND CONCRETE THRUST BLOCK PER RWU STD DETAIL **20/WD-1**
3. 8"MJXMJ GATE VALVE WITH VALVE BOX PER RWU STD DETAIL **1/WD-1**
4. AIR RELEASE VALVE PER RWU STD DETAIL **3/WD-1**
5. FIRE HYDRANT ASSEMBLY AND CONCRETE THRUST BLOCKING PER RWU STD DETAILS **4A/WD-1** AND **20/WD-1**
6. 8"MJXMJ 45' BEND AND CONCRETE THRUST BLOCKING PER RWU STD DETAIL **20/WD-1**
7. 8"MJX8"MJX8"MJX8"MJ CROSS, 8"MJX6"FL REDUCER, 6"FLXFL GATE VALVE, FIRE HYDRANT ASSEMBLY, AND CONCRETE THRUST BLOCKING PER RWU STD DETAILS **4A/WD-1** AND **20/WD-1**
8. ENCASE WATER MAIN WITH STEEL PIPE ENCASMENT 10' EACH SIDE OF SANITARY SEWER MAIN PER RWU STD DETAIL **21/WD-1**
9. STREETLIGHT PER CITY OF ROGERS STANDARD SPECIFICATIONS.
10. STOP SIGN PER CITY OF ROGERS STANDARD SPECIFICATIONS.
11. ACCESSIBLE CURB RAMP PER DETAIL **1/C15.0**

NOTES (ASPHALT STREET SECTION):

1. 336 lb/sy (3") ASPHALTIC CONCRETE HOT MIX SURFACE COURSE. MATERIALS SHALL BE IN ACCORDANCE WITH ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT SPECIFICATIONS, SECTION 407 TYPE '2', LATEST EDITION.
2. 6" LAYER OF DENSE GRADED LIMESTONE BASE COURSE. MATERIALS SHALL BE IN ACCORDANCE WITH ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT SPECIFICATIONS, SECTION 303 CLASS '7', COMPACTED TO 95% STANDARD PROCTOR MAXIMUM DRY DENSITY.
3. TOP 6" OF SUBGRADE SHALL BE COMPACTED TO 95% STANDARD PROCTOR MAXIMUM DRY DENSITY. BELOW 6" SHALL BE COMPACTED TO 90% STANDARD PROCTOR MAXIMUM DRY DENSITY AS DETERMINED BY AASHTO T-99 COMPACTION TEST. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.



TYPICAL ASPHALT STREET SECTION
NOT TO SCALE

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JDH HOLDING, LLC
209 W. ELM ST., ROGERS, AR 72756

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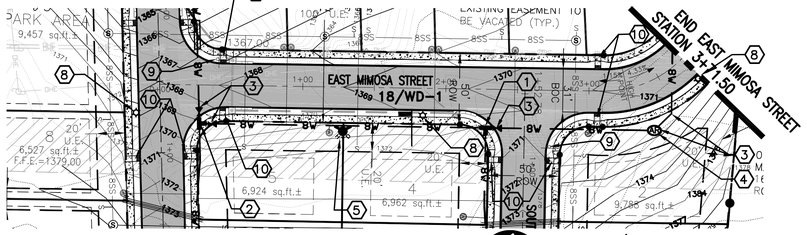
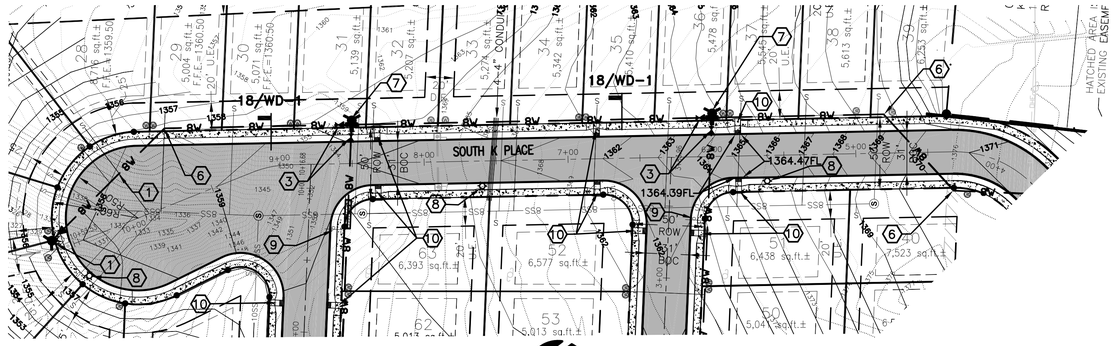
Expedient Civil Engineering, PLLC

DRAWN BY: JEI
CHECKED BY: JEI
DATE 3/7/2016
JOB NUMBER 16-1004
SHEET NAME SOUTH K STREET, EAST OLRICH STREET AND WATER MAIN PLAN AND PROFILE
File No. 16-1004.DWG
C6.0



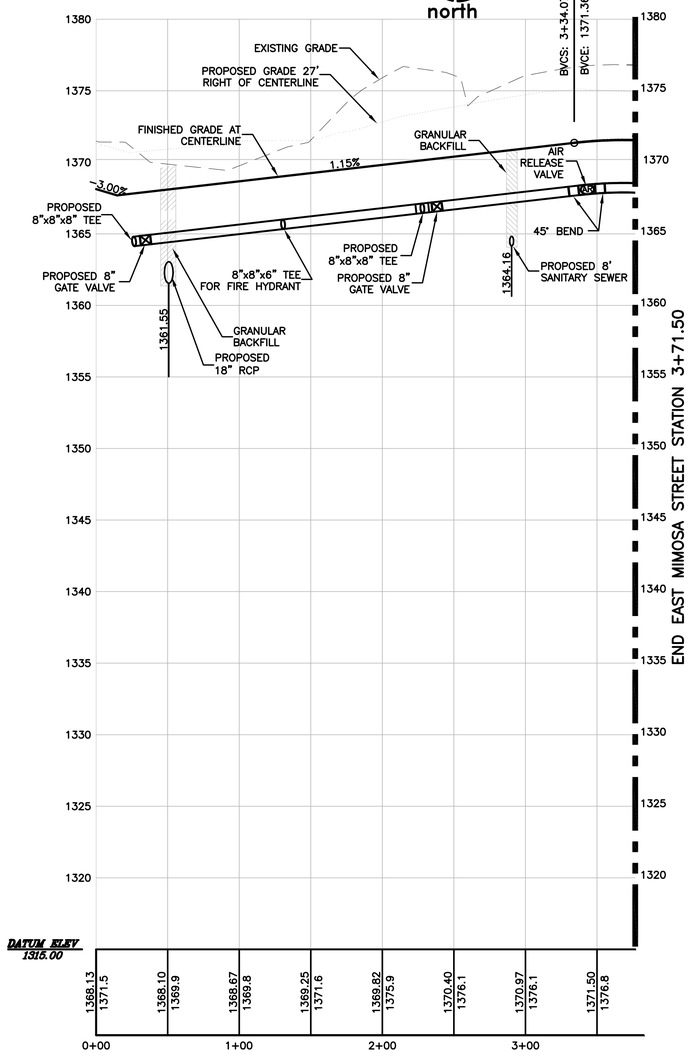
EAST MIMOSA STREET
SCALE: 1" = 50'

north

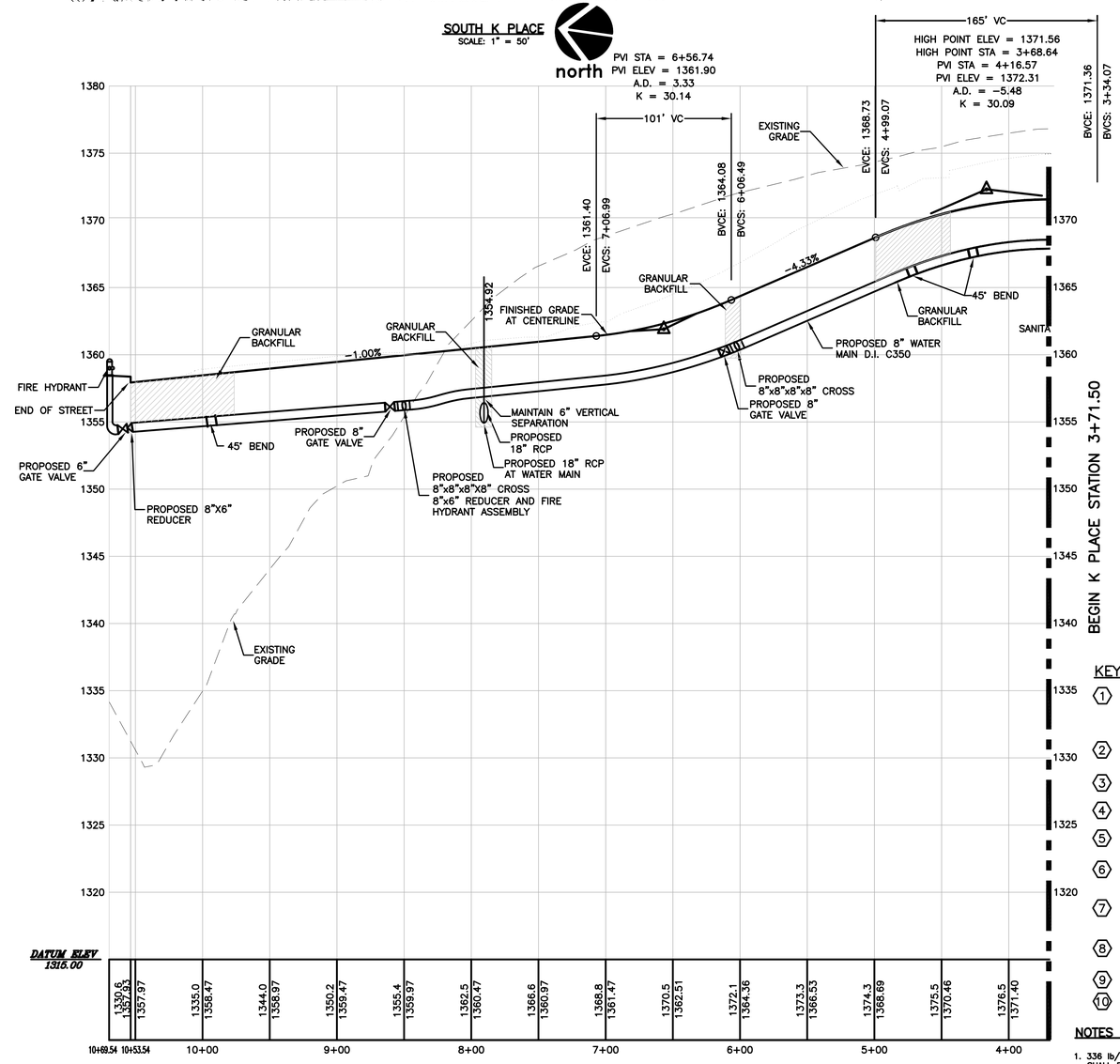


SOUTH K PLACE
SCALE: 1" = 50'

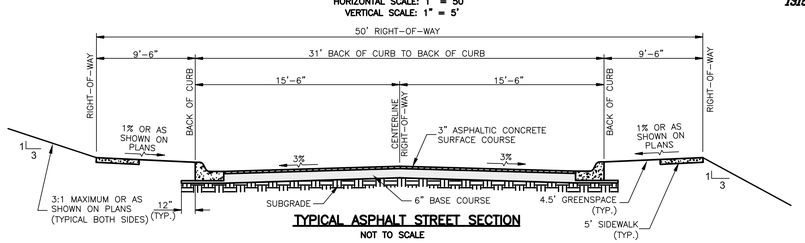
north



EAST MIMOSA STREET
HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 5'



SOUTH K PLACE
HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 5'



TYPICAL ASPHALT STREET SECTION
NOT TO SCALE

KEYNOTES:

1. 8"MJX6"FL REDUCER, 6"FLXFL GATE VALVE, AND FIRE HYDRANT ASSEMBLY WITH CONCRETE THRUST BLOCKING PER RWU STD **4A/WD-1** AND **20/WD-1**
2. 8"MJX8"MJX8"MJ TEE AND CONCRETE THRUST BLOCK PER RWU STD DETAIL **20/WD-1**
3. 8"MJXMJ GATE VALVE WITH VALVE BOX PER RWU STD DETAIL **1/WD-1**
4. AIR RELEASE VALVE PER RWU STD DETAIL **3/WD-1**
5. FIRE HYDRANT ASSEMBLY AND CONCRETE THRUST BLOCKING PER RWU STD DETAILS **4A/WD-1** AND **20/WD-1**
6. 8"MJXMJ 45° BEND AND CONCRETE THRUST BLOCKING PER RWU STD DETAIL **20/WD-1**
7. 8"MJX8"MJX8"MJX8"MJ CROSS, 8"MJX6"FL REDUCER, FIRE HYDRANT ASSEMBLY, AND CONCRETE THRUST BLOCKING PER RWU STD DETAILS **4A/WD-1** AND **20/WD-1**
8. PROPOSED STREETLIGHT PER CITY OF ROGERS STANDARD DETAILS AND SPECIFICATIONS.
9. STOP SIGN PER CITY OF ROGERS STANDARD SPECIFICATIONS.
10. ACCESSIBLE CURB RAMP PER DETAIL **1/C15.0**

NOTES (ASPHALT STREET SECTION):

1. 336 lb/sy (3") ASPHALTIC CONCRETE HOT MIX SURFACE COURSE. MATERIALS SHALL BE IN ACCORDANCE WITH ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT SPECIFICATIONS, SECTION 407 TYPE '2', LATEST EDITION.
2. 6" LAYER OF DENSE GRADED LIMESTONE BASE COURSE. MATERIALS SHALL BE IN ACCORDANCE WITH ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT SPECIFICATIONS, SECTION 303 CLASS '7', COMPACTED TO 95% STANDARD PROCTOR MAXIMUM DRY DENSITY.
3. TOP 6" OF SUBGRADE SHALL BE COMPACTED TO 95% STANDARD PROCTOR MAXIMUM DRY DENSITY. BELOW 6" SHALL BE COMPACTED TO 90% STANDARD PROCTOR MAXIMUM DRY DENSITY AS DETERMINED BY AASHTO T-99 COMPACTION TEST. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No.11411
Jason E. Ingalls
4/8/2016

Rev	Comments	Date
1	PER CITY OF ROGERS COMMENTS	4/8/16

FOXBRIAR SUBDIVISION, PHASE 2
LONGVIEW DRIVE ROGERS, ARKANSAS

JDH HOLDING, LLC
209 W. ELM ST., ROGERS, AR 72756

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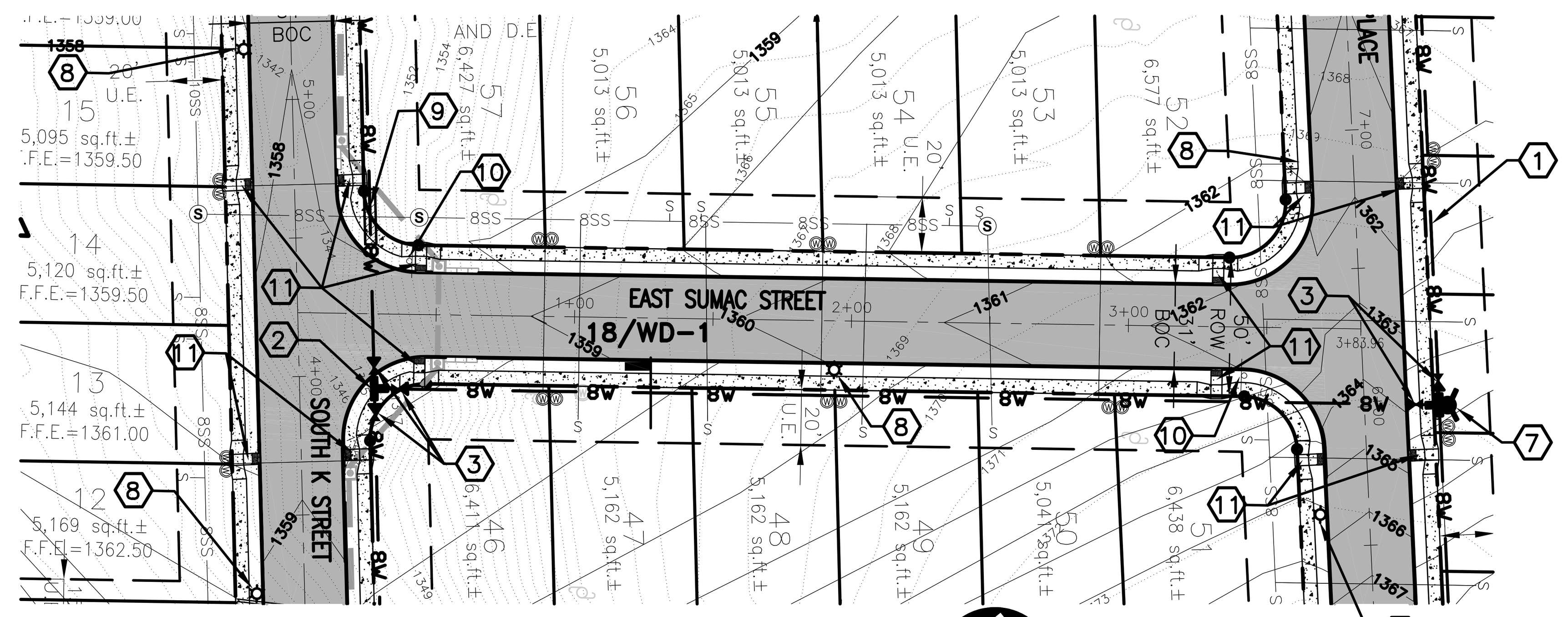
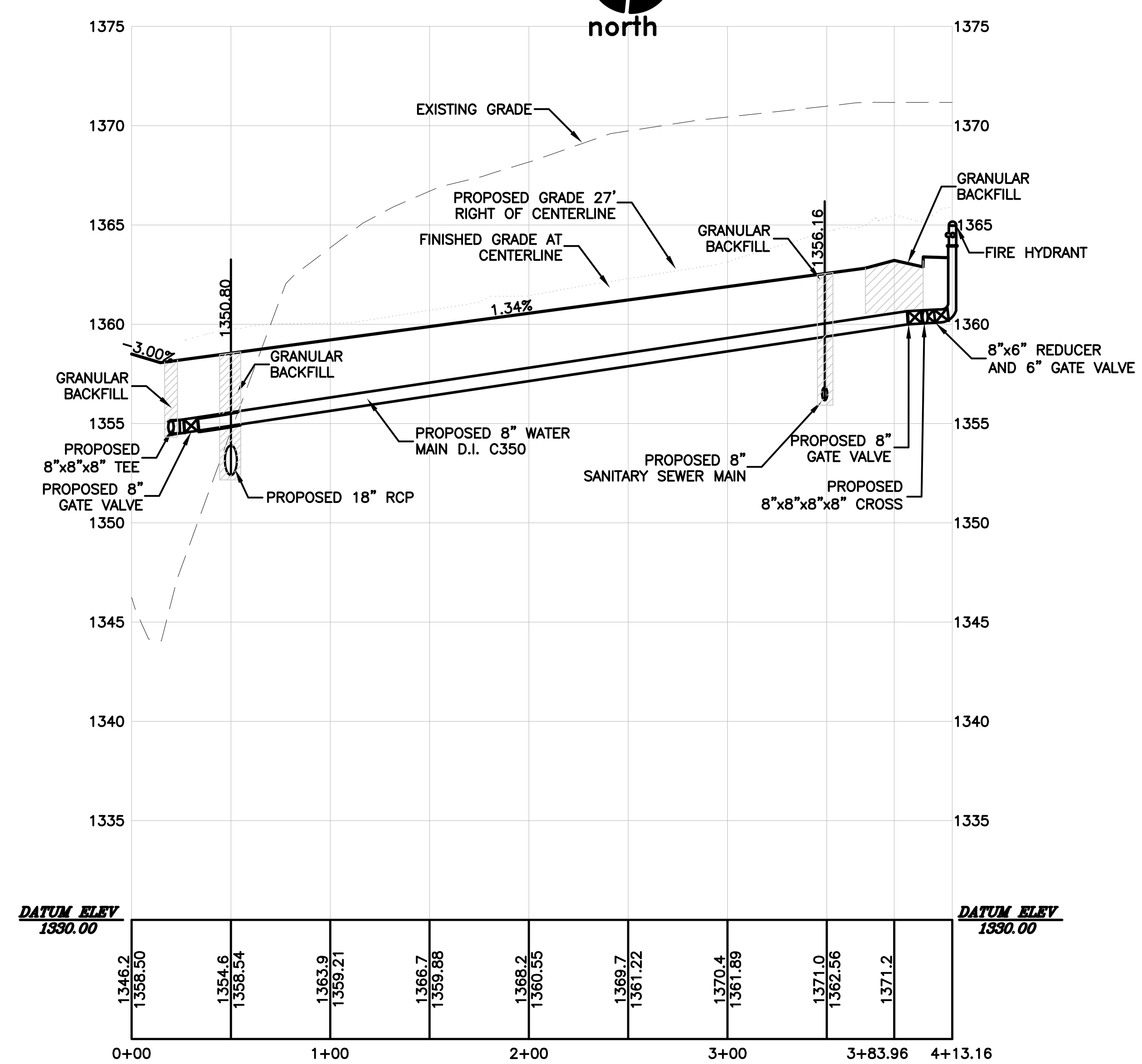
C7.0

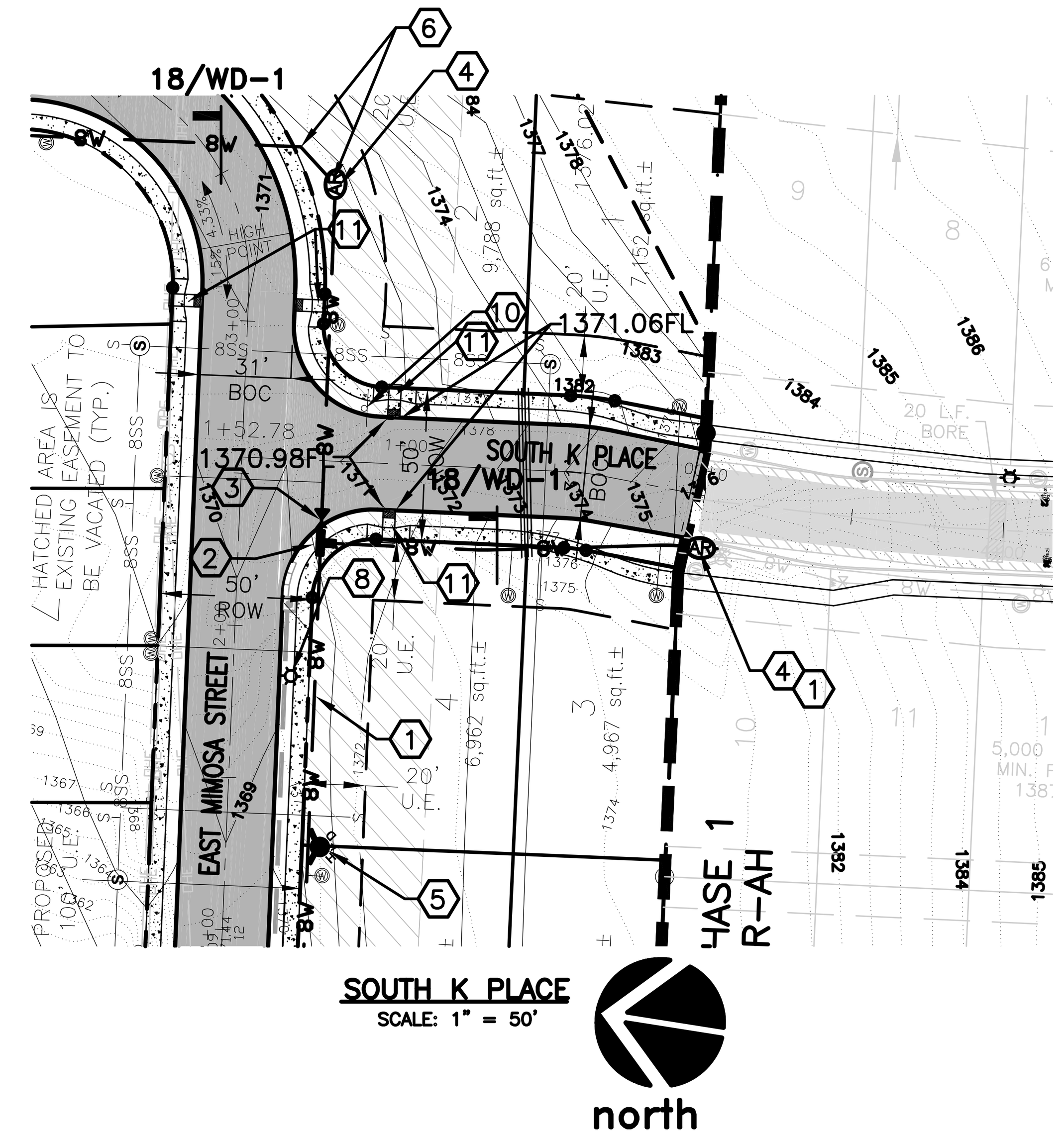


EAST SUMAC COURT
SCALE: 1" = 50'

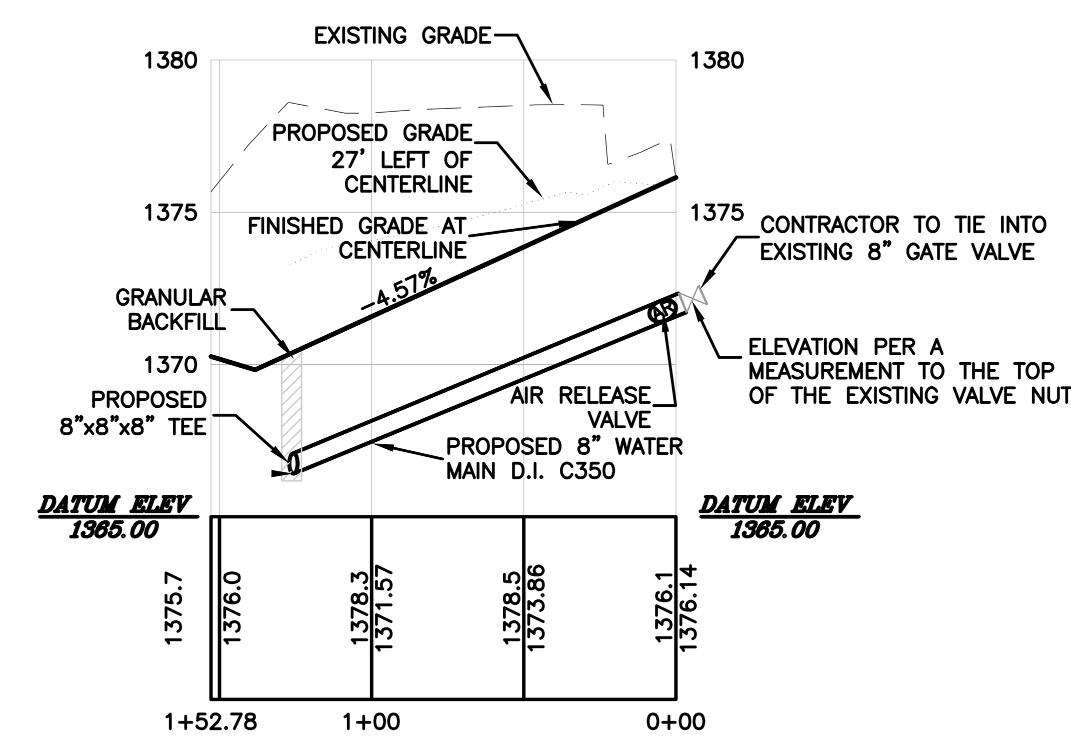


1346.2	1354.6	1363.9	1366.7	1368.2	1369.7	1370.4	1371.0	1371.2	
1358.50	1358.54	1359.21	1359.88	1360.55	1361.22	1361.89	1362.56		
0+00		1+00		2+00		3+00	3+83.96	4+13.16	

EAST SUMAC COURT
HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 5'

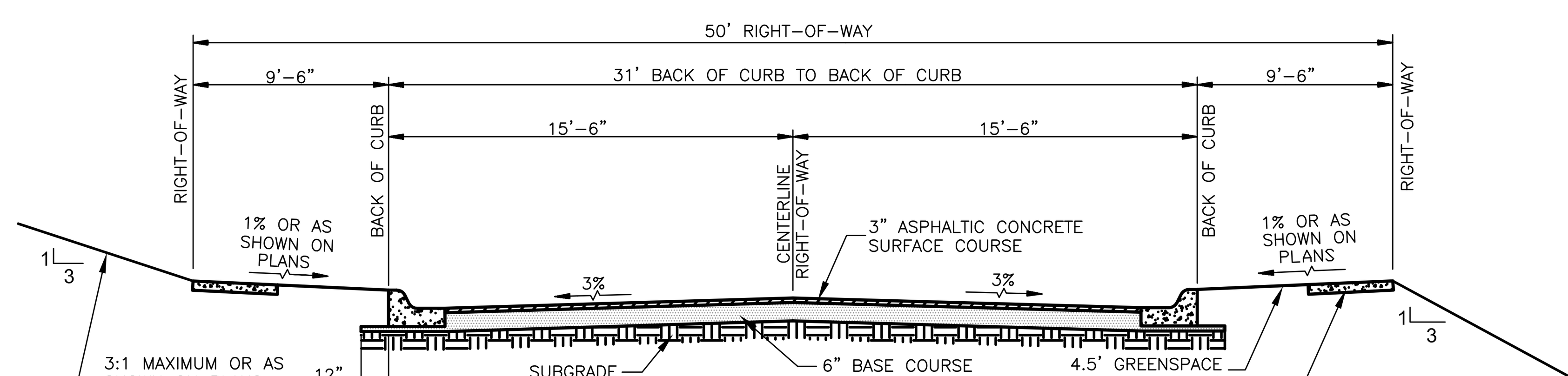


SOUTH K PLACE
SCALE: 1" = 50'



1375.7	1376.0	1378.3	1378.5	1376.1
		1371.57	1373.86	1376.14
1+52.78		1+00		0+00

SOUTH K PLACE
HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 5'



TYPICAL ASPHALT STREET SECTION
NOT TO SCALE

NOTES (ASPHALT STREET SECTION):

1. 336 lb/sy (3") ASPHALTIC CONCRETE HOT MIX SURFACE COURSE. MATERIALS SHALL BE IN ACCORDANCE WITH ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT SPECIFICATIONS, SECTION 407 TYPE '2', LATEST EDITION.
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3. TOP 6" OF SUBGRADE SHALL BE COMPACTED TO 95% STANDARD PROCTOR MAXIMUM DRY DENSITY. BELOW 6" SHALL BE COMPACTED TO 90% STANDARD PROCTOR MAXIMUM DRY DENSITY AS DETERMINED BY AASHTO T-99 COMPACTION TEST. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

KEYNOTES:

1. TIE PROPOSED 8" WATER MAIN TO EXISTING 8" PLUGGED GATE VALVE.
2. 8"MJX8"MJX8"MJ TEE AND CONCRETE THRUST BLOCK PER RWU STD DETAIL 20/WD-1
3. 8"MJXMJ GATE VALVE WITH VALVE BOX PER RWU STD DETAIL 1/WD-1
4. AIR RELEASE VALVE PER RWU STD DETAIL 3/WD-1
5. 8"MJX8"MJX6"FL TEE, 6"FLXFL GATE VALVE, FIRE HYDRANT ASSEMBLY AND CONCRETE THRUST BLOCKING PER RWU STD DETAILS 4A/WD-1 AND 20/WD-1
6. 8"MJXMJ 45° BEND AND CONCRETE THRUST BLOCKING PER RWU STD DETAIL 20/WD-1
7. 8"MJX8"MJX8"MJX8"MJ CROSS, 8"MJX6"FL REDUCER, 6"FLXFL GATE VALVE, FIRE HYDRANT ASSEMBLY, AND CONCRETE THRUST BLOCKING PER RWU STD DETAILS 4A/WD-1 AND 20/WD-1
8. PROPOSED STREETLIGHT PER CITY OF ROGERS STANDARD DETAILS AND SPECIFICATIONS.
9. WATER MAIN STEEL PIPE ENCASEMENT 10' EACH SIDE OF SANITARY SEWER CROSSING PER RWU STD DETAIL 21/WD-1
10. STOP SIGN PER CITY OF ROGERS STANDARD SPECIFICATIONS.
11. ACCESSIBLE CURB RAMP PER DETAIL 1/C15.0

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

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No.11411 Jason E. Ingalls 4/8/2016

Rev	Comments	Date
1	PER CITY OF ROGERS COMMENTS	4/8/16

FOXBRIAR SUBDIVISION, PHASE 2
LONGVIEW DRIVE
ROGERS, ARKANSAS

JDH HOLDING, LLC
209 W. ELM ST., ROGERS, AR 72756

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SHEET NAME EAST SUMAC COURT, SOUTH K PLACE AND WATER MAIN PLAN AND PROFILE
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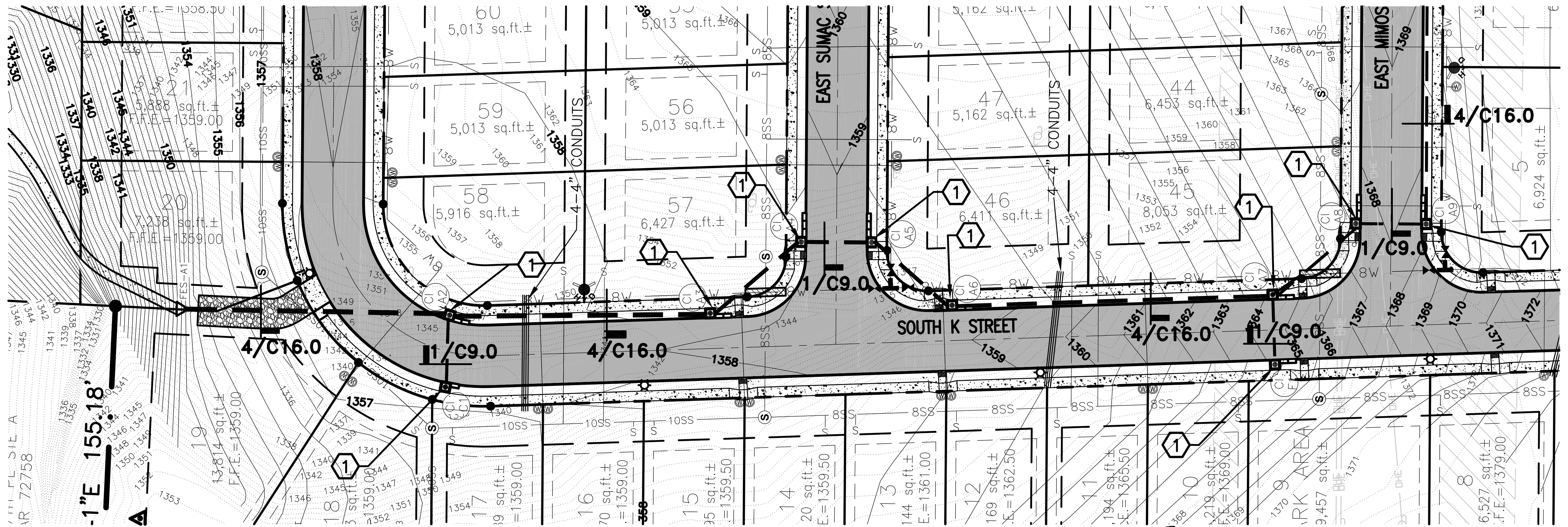
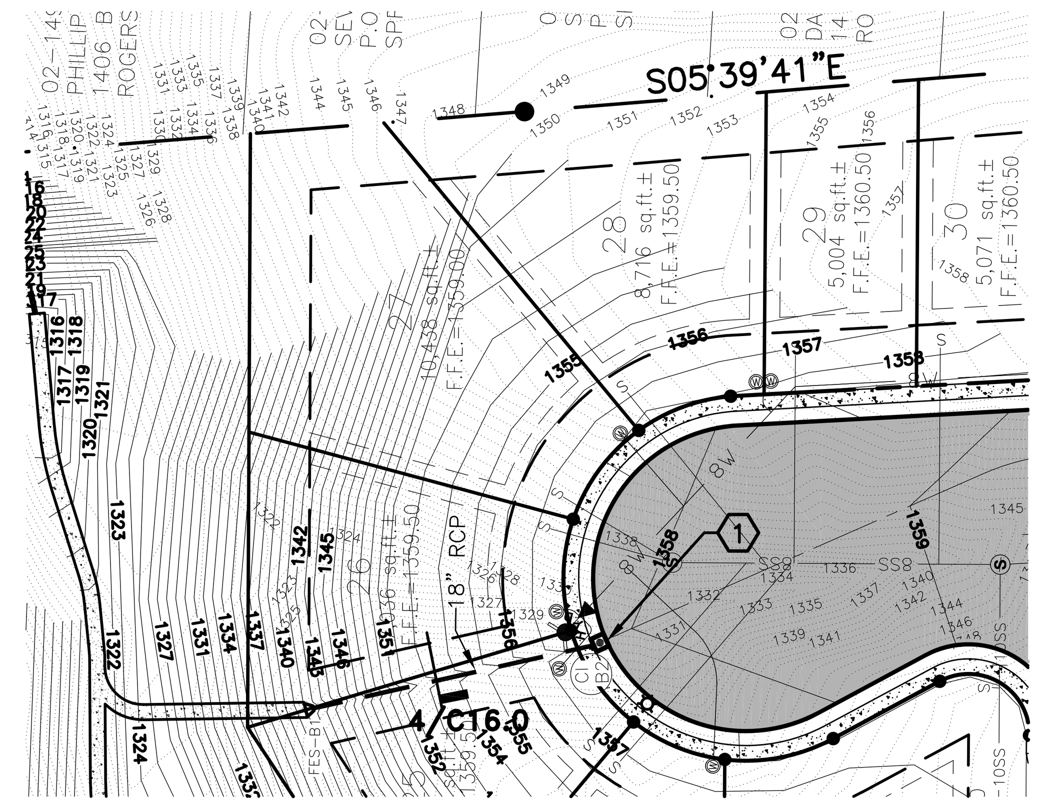
C8.0



STORM SEWER LINE "A" PLAN

SCALE: 1" = 50'

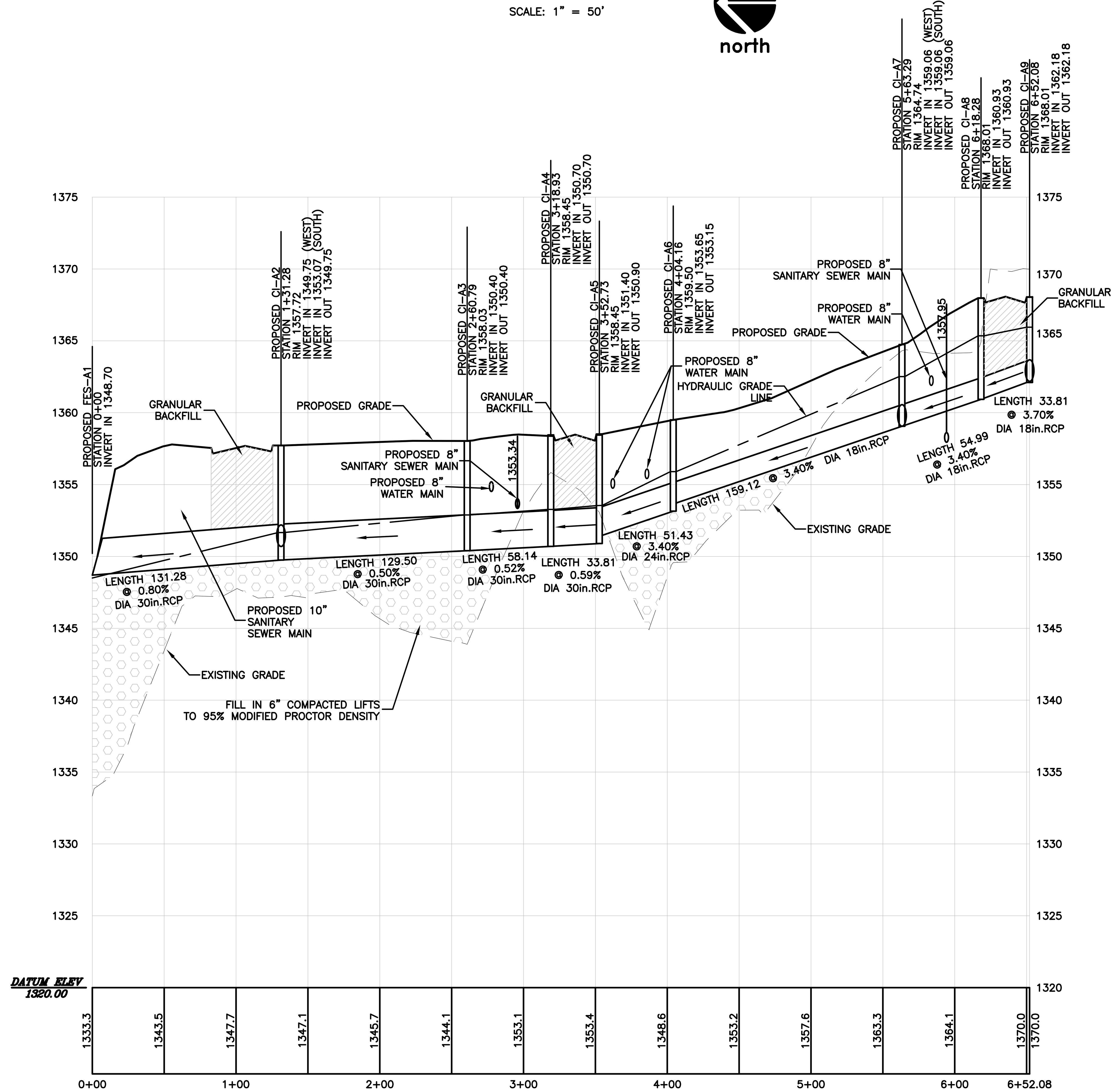
north



STORM SEWER LINE "B" PLAN

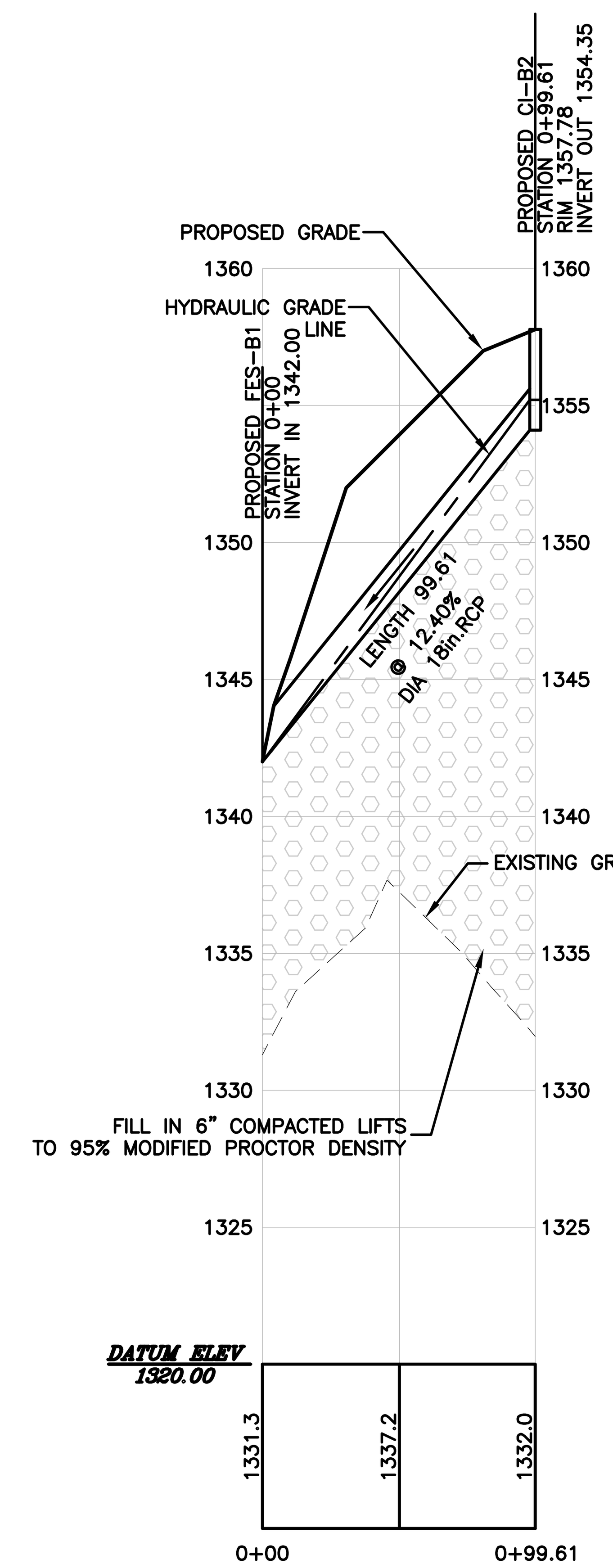
SCALE: 1" = 50'

north



STORM SEWER LINE "A" PROFILE

HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 5'

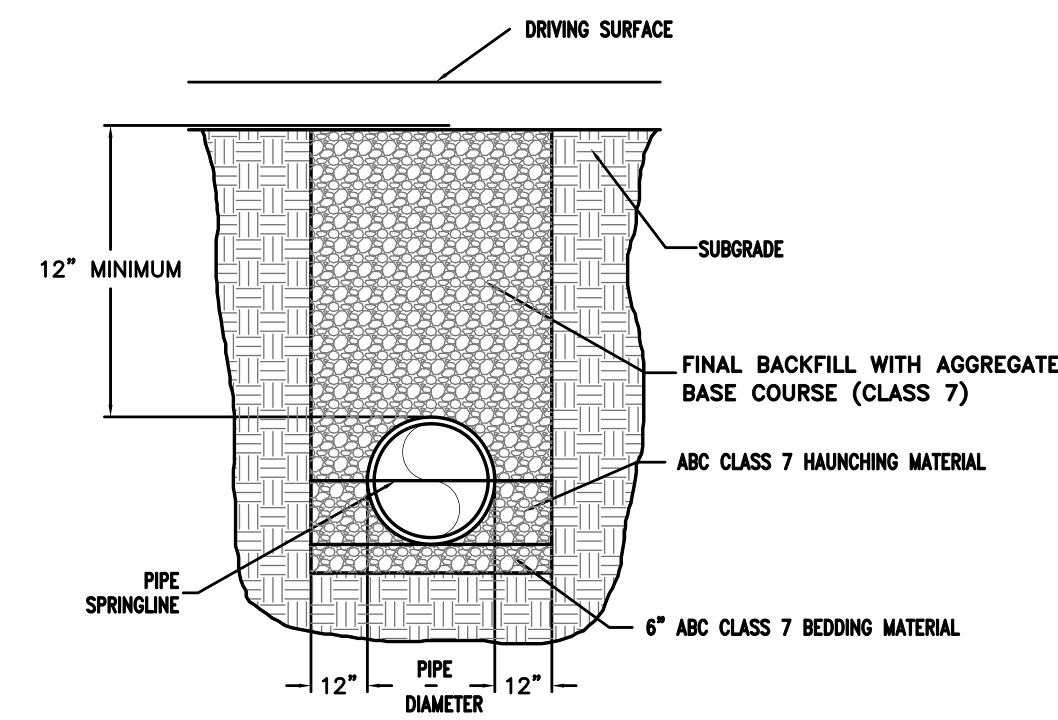


STORM SEWER LINE "B" PROFILE

HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 5'

KEYNOTES:

(1) CURB INLET PER DETAIL 1/C16.0. SEE SHEET C5.0 FOR THROAT EXTENSION LENGTHS.



CONCRETE PIPE UNDER PAVEMENT BEDDING DETAIL

NOT TO SCALE

DETAIL 1

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No.11411 Jason E. Ingalls 4/8/2016

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DRAWN BY: JEI
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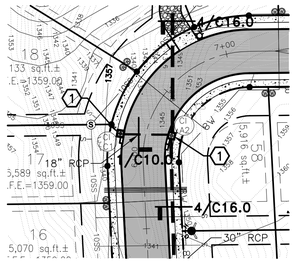
DATE 3/7/2016
JOB NUMBER 16-1004
SHEET NAME STORM SEWER LINES "A" AND "B" PLAN & PROFILE
File No. 16-1004.DWG
C9.0

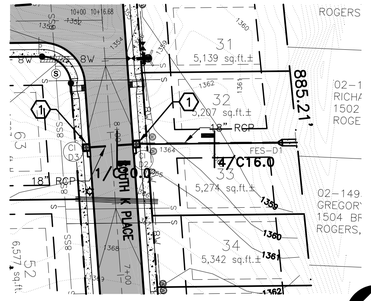
CALL BEFORE YOU DIG 1-800-482-8998 ARKANSAS ONE-CALL SYSTEM



STORM SEWER LINE "C" PLAN

SCALE: 1" = 50'

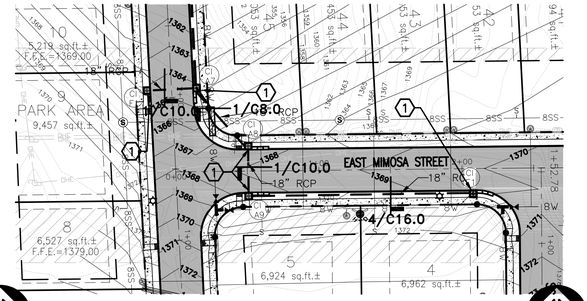
north



STORM SEWER LINE "D" PLAN

SCALE: 1" = 50'

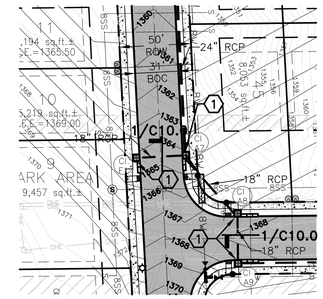
north



STORM SEWER LINE "E" PLAN

SCALE: 1" = 50'

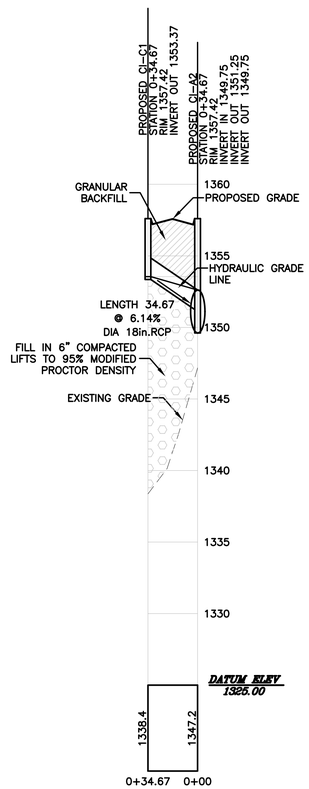
north



STORM SEWER LINE "F" PLAN

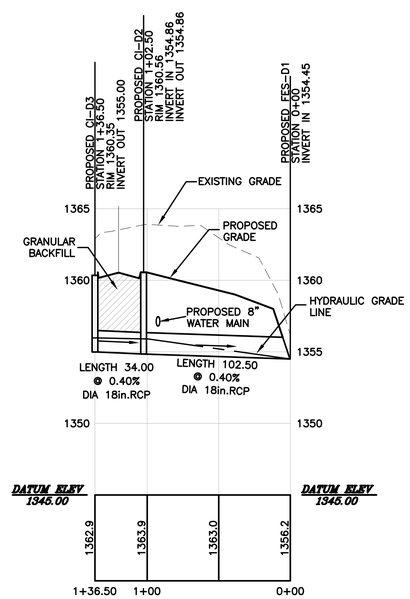
SCALE: 1" = 50'

north



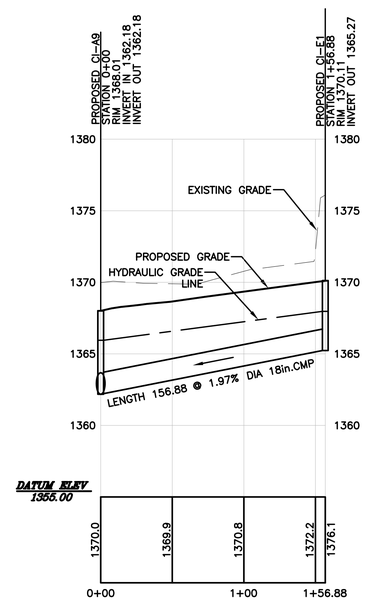
STORM SEWER LINE "C" PROFILE

HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 5'



STORM SEWER LINE "D" PROFILE

HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 5'



STORM SEWER LINE "E" PROFILE

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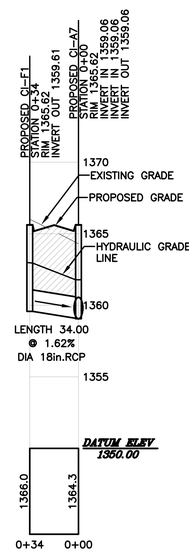
VERTICAL SCALE: 1" = 5'

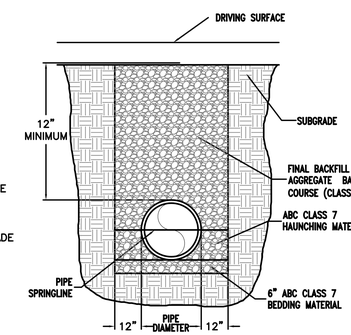


STORM SEWER LINE "F" PROFILE

HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 5'

KEYNOTES:

1. CURB INLET PER DETAIL **1/C16.0**. SEE SHEET **C5.0** FOR THROAT EXTENSION LENGTHS.



CONCRETE PIPE UNDER PAVEMENT BEDDING DETAIL

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Expedient Civil Engineering, PLLC

DRAWN BY: JEI

CHECKED BY: JEI

DATE 3/7/2016

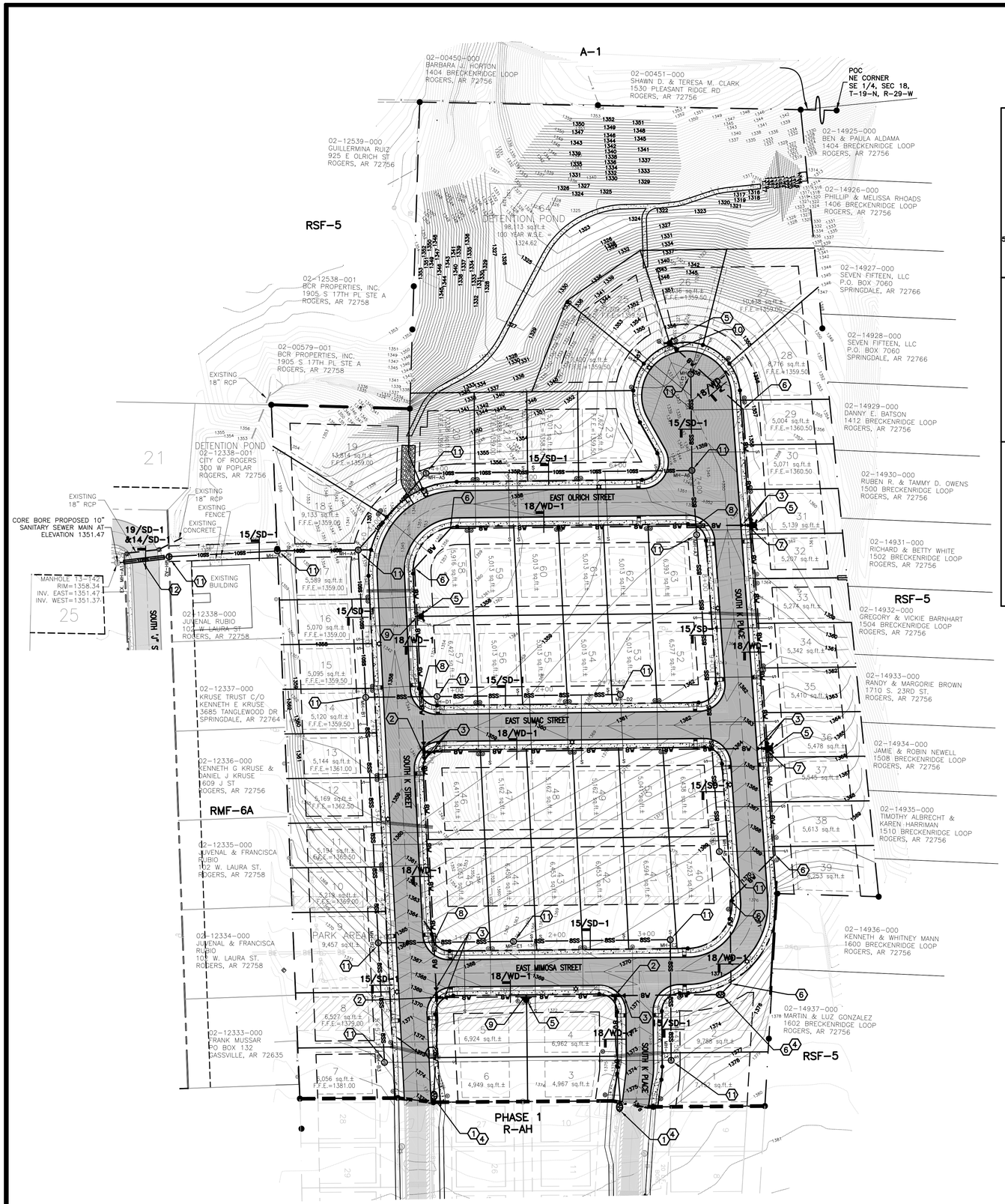
JOB NUMBER 16-1004

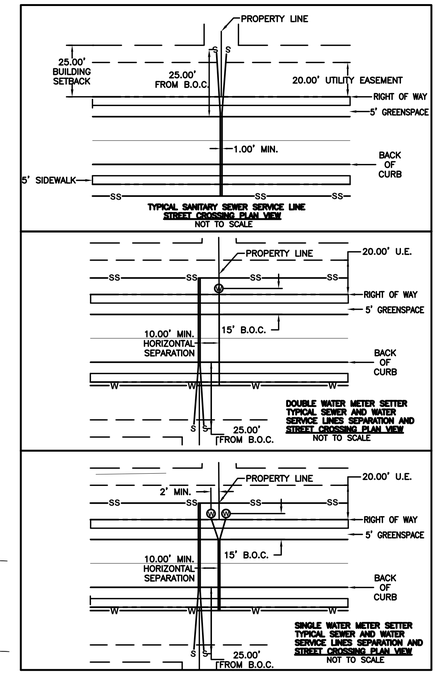
SHEET NAME

STORM SEWER LINES "C", "D", "E" AND "F" PLAN & PROFILE

File No. 16-1004.DWG

C10.0

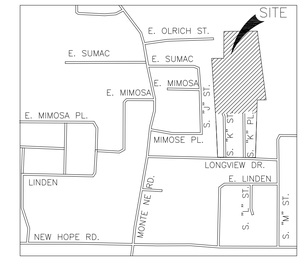




north

0 60 120 180

1" = 60'-0"



VICINITY MAP
NOT TO SCALE

LEGEND

- FOUND IRON PIN
- PROPERTY LINE
- EXISTING OVERHEAD ELECTRIC
- EXISTING BARBED WIRE FENCE
- EXISTING GAS METER
- EXISTING ELECTRIC TRANSFORMER
- PROPOSED EASEMENT
- PROPOSED CENTERLINE OF ROAD
- PROPOSED RIGHT OF WAY
- PROPOSED CURB
- PROPOSED 8" WATER MAIN
- PROPOSED 8" SANITARY SEWER MAIN
- PROPOSED 10" SANITARY SEWER MAIN
- PROPOSED FIRE HYDRANT
- PROPOSED GATE VALVE
- PROPOSED SANITARY SEWER MANHOLE
- PROPOSED SINGLE 5/8" WATER METER SETTER
- PROPOSED DOUBLE 5/8" WATER METER SETTER
- PROPOSED 4" SEWER SERVICE
- PROPOSED 5' SIDEWALK

UTILITY NOTES:

A. CONSTRUCTION SHALL NOT START ON ANY PUBLIC UTILITY SYSTEM UNTIL WRITTEN APPROVAL HAS BEEN RECEIVED FROM THE APPROPRIATE UTILITY AUTHORITIES AND ROGERS WATER UTILITIES AND CONTRACTOR HAS BEEN NOTIFIED BY EXPEDIENT CIVIL ENGINEERING, PLLC.

B. DISINFECTION AND PRESSURE TESTING OF WATER LINES SHALL BE PERFORMED AND PAID FOR BY THE CONTRACTOR UNDER SUPERVISION OF A REPRESENTATIVE OF ROGERS WATER UTILITIES AND EXPEDIENT CIVIL ENGINEERING, PLLC.

C. ALL WATER AND SEWER MAINS THAT ARE TO BE PUBLIC LINES SHALL BE CONSTRUCTED IN ACCORDANCE WITH SPECIFICATIONS PREVIOUSLY APPROVED BY ROGERS WATER UTILITIES AND THE ARKANSAS STATE HEALTH DEPARTMENT AND SHALL BE INSPECTED BY ROGERS WATER UTILITIES INSPECTOR & EXPEDIENT CIVIL ENGINEERING, PLLC.

D. ALL WATER MAINS SHALL BE DUCTILE IRON, PRESSURE CLASS 350, SANITARY SEWER MAINS SHALL BE PVC, SDR-26 AND ALL SANITARY SEWER MANHOLES ARE 4' DIAMETER UNLESS NOTED.

E. ALL FILL UNDER UTILITY LINES SHALL BE COMPACTED IN 6 INCH LIFTS COMPACTED TO 95% MODIFIED PROCTOR DENSITY.

F. ALL DENSITY TESTING REPORTS ARE TO BE FORWARDED TO ROGERS WATER UTILITIES, EXPEDIENT CIVIL ENGINEERING, PLLC, AND THE CONTRACTOR.

G. ALL SANITARY SEWER MANHOLES IN FILL AREAS TO USE LARGE-BASE (SEE DETAIL ON SHEET SD-1)

H. EVERY SANITARY SEWER MANHOLE SHOULD BE VACUUM TESTED AS WORK PROGRESSES.

WATER SERVICE NOTES:

1. SHORTSIDE WATER METERS ARE TO BE LOCATED 15' BEHIND BACK OF CURB OR 2' BEHIND WATER MAIN.
2. FIRE HYDRANTS TO BE LOCATED 16' BEHIND BACK OF CURB AND NO MORE THAN 800 FEET BETWEEN THE NEXT FIRE HYDRANT.

NOTE:

ALL MATERIALS AND METHODS USED TO CONSTRUCT PUBLIC WATER AND SEWER MAINS SHALL CONFORM TO RWU STANDARD DETAILS AND STANDARD SPECIFICATIONS

WATER LINE NOTES:

1. ALL POTABLE WATER LINES TO BE DUCTILE IRON, PRESSURE CLASS 350 PIPE WITH 36" MINIMUM COVER.
2. INSTALL AIR RELEASE VALVES AT TOPOGRAPHIC HIGH POINTS IN WATER LINE. FORCE HIGH POINT TO CLOSEST PROPERTY LINE.
3. THRUST BLOCKING SHALL BE CONSISTENT WITH PROJECT SPECIFICATIONS AND DETAILS.
4. MAINTAIN A 10' MINIMUM HORIZONTAL CLEARANCE BETWEEN WATER LINES AND SEWER MAINS AND SERVICE LINES. A MINIMUM OF 18" OF VERTICAL SEPARATION IS REQUIRED AT WATER AND SEWER LINE CROSSINGS.
5. ALL WORK SHALL BE IN COMPLIANCE WITH ROGERS WATER UTILITIES STANDARD SPECIFICATIONS.
6. WATER MAIN TO BE LOCATED 12' BEHIND BACK OF CURB UNLESS OTHERWISE NOTED.

SANITARY SEWER NOTES:

1. ALL SANITARY SEWER LINES AND THEIR FITTINGS ARE TO BE SDR-26 PVC WITH 6' MINIMUM COVER. EXCEPT AS NOTED ON SANITARY SEWER PROFILE SHEETS.
2. CONTRACTOR TO VERIFY THE FINISH GRADE ADJACENT TO THE MANHOLE AND CROSS REFERENCE WITH GRADE ON PLANS BEFORE PLACING RIM.
3. MAINTAIN A 10' MINIMUM HORIZONTAL CLEARANCE BETWEEN WATER LINES AND SEWER MAINS AND SERVICE LINES. A MINIMUM OF 18" OF VERTICAL SEPARATION IS REQUIRED AT WATER AND SEWER LINE CROSSINGS.
4. ALL WORK SHALL BE IN COMPLIANCE WITH ROGERS WATER UTILITIES SANITARY SEWER UTILITIES STANDARD SPECIFICATIONS.
5. ALL SANITARY SEWER MANHOLES LOCATED IN THE STREET OR PRIVATE DRIVES MUST HAVE A TRAFFIC MODEL RING AND LID INSTALLED PER ROGERS WATER UTILITIES STANDARD SPECIFICATIONS.

SANITARY SEWER SERVICE NOTES:

1. SANITARY SEWER SERVICES ARE TO BE CONSTRUCTED TO 25' BEHIND BACK OF CURB.

KEYNOTES:

1. TIE PROPOSED 8" WATER MAIN TO EXISTING 8" PLUGGED GATE VALVE.
2. 8"MJX8"MJX8"MJ TEE AND CONCRETE THRUST BLOCK PER RWU STD DETAIL **20/WD-1**
3. 8"MJXMJ GATE VALVE WITH VALVE BOX PER RWU STD DETAIL **1/WD-1**
4. AIR RELEASE VALVE PER RWU STD DETAIL **3/WD-1**
5. FIRE HYDRANT ASSEMBLY AND CONCRETE THRUST BLOCKING PER RWU STD DETAILS **4A/WD-1** AND **20/WD-1**
6. 8"MJXMJ 45° BEND AND CONCRETE THRUST BLOCKING PER RWU STD DETAIL **20/WD-1**
7. 8"MJX8"MJX8"MJX8"MJ CROSS, 8"MJX6"FL REDUCER, 6"FLXFL GATE VALVE, FIRE HYDRANT ASSEMBLY, AND CONCRETE THRUST BLOCKING PER RWU STD DETAILS **4A/WD-1** AND **20/WD-1**
8. ENCASE WATER MAIN WITH STEEL PIPE ENCASMENT 10' EACH SIDE OF SANITARY SEWER MAIN PER RWU STD DETAIL **21/WD-1**
9. 8"MJX8"MJX6"FL TEE, 6"FLXFL GATE VALVE, FIRE HYDRANT WITH CONCRETE THURST BLOCKING PER RWU STD DETAIL **20/WD-1**
10. 8"MJX6"MJ REDUCER
11. SANITARY SEWER MANHOLE PER RWU STD DETAIL **2/SD-1**
12. 45 LF JACK AND BORE AND 0.28%.

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ARKANSAS ONE-CALL SYSTEM

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No.11411
Jason E. Ingalls
7/8/2016

Rev	Comments	Date
1	PER CITY OF ROGERS COMMENTS	4/8/16

FOXBRIAR SUBDIVISION, PHASE 2

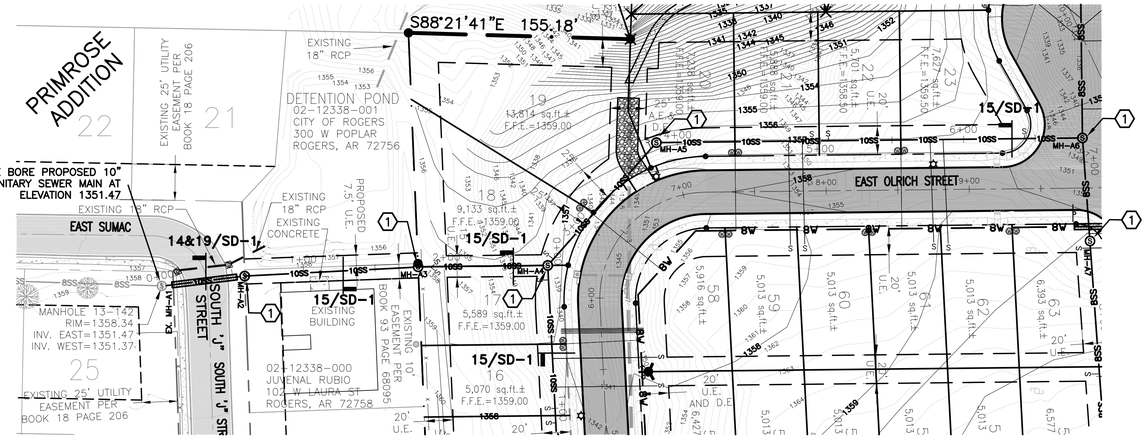
LONGVIEW DRIVE

ROGERS, ARKANSAS

JDH HOLDING, LLC
209 W. ELM ST., ROGERS, AR 72756

Expedient Civil Engineering, PLLC
510 S. 7th Ave
Van Buren, AR 72956
P: (501) 759-5300
EMAIL: jason_ingalls@yahoo.com

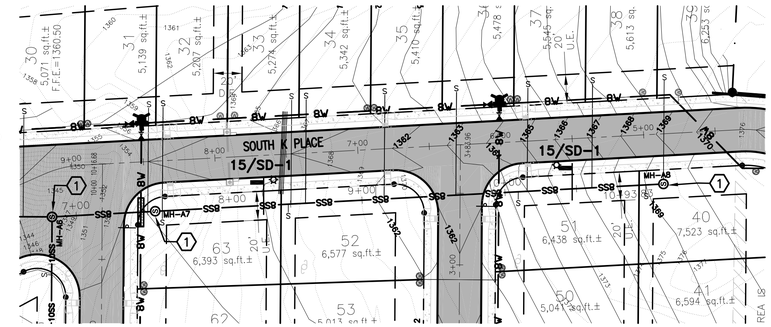
DRAWN BY: JEI
CHECKED BY: JEI
DATE 3/7/2016
JOB NUMBER 16-1004
SHEET NAME
UTILITY PLAN
File No. 16-1004.DWG
C11.0



SANITARY SEWER LINE "A" PLAN

SCALE: 1" = 50'

north



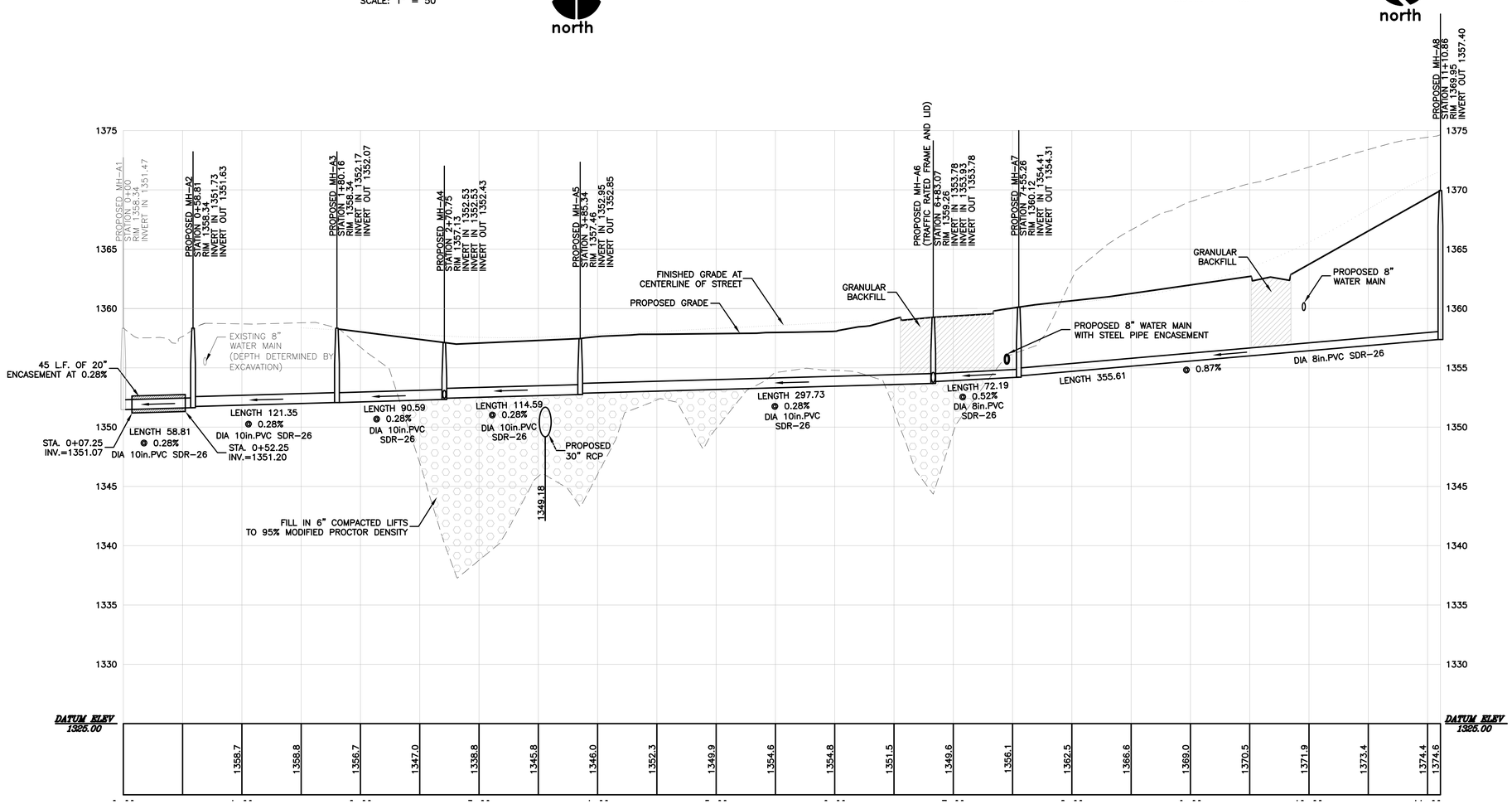
SANITARY SEWER LINE "A" PLAN

SCALE: 1" = 50'

north

KEYNOTES:

1. SANITARY SEWER MANHOLE PER RWU STD DETAIL 2/SD-1
2. 45 LF JACK AND BORE AND 0.28%.



SANITARY SEWER LINE "A" PROFILE

HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 5'

STATE OF ARKANSAS
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DRAWN BY: JEI
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DATE 3/7/2016
JOB NUMBER 16-1004
SHEET NAME
SANITARY SEWER LINE "A" PLAN & PROFILE
File No. 16-1004.DWG
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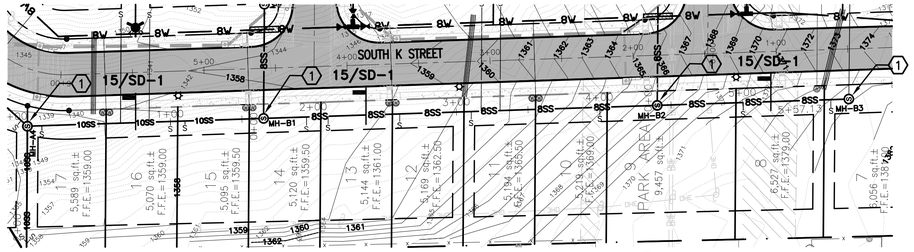
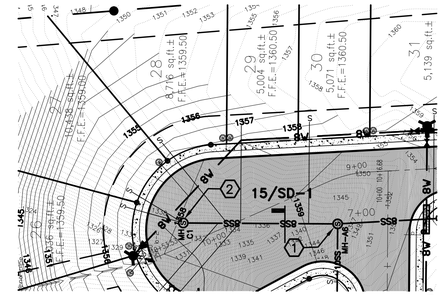


SANITARY SEWER LINE "B" PLAN

SCALE: 1" = 50'

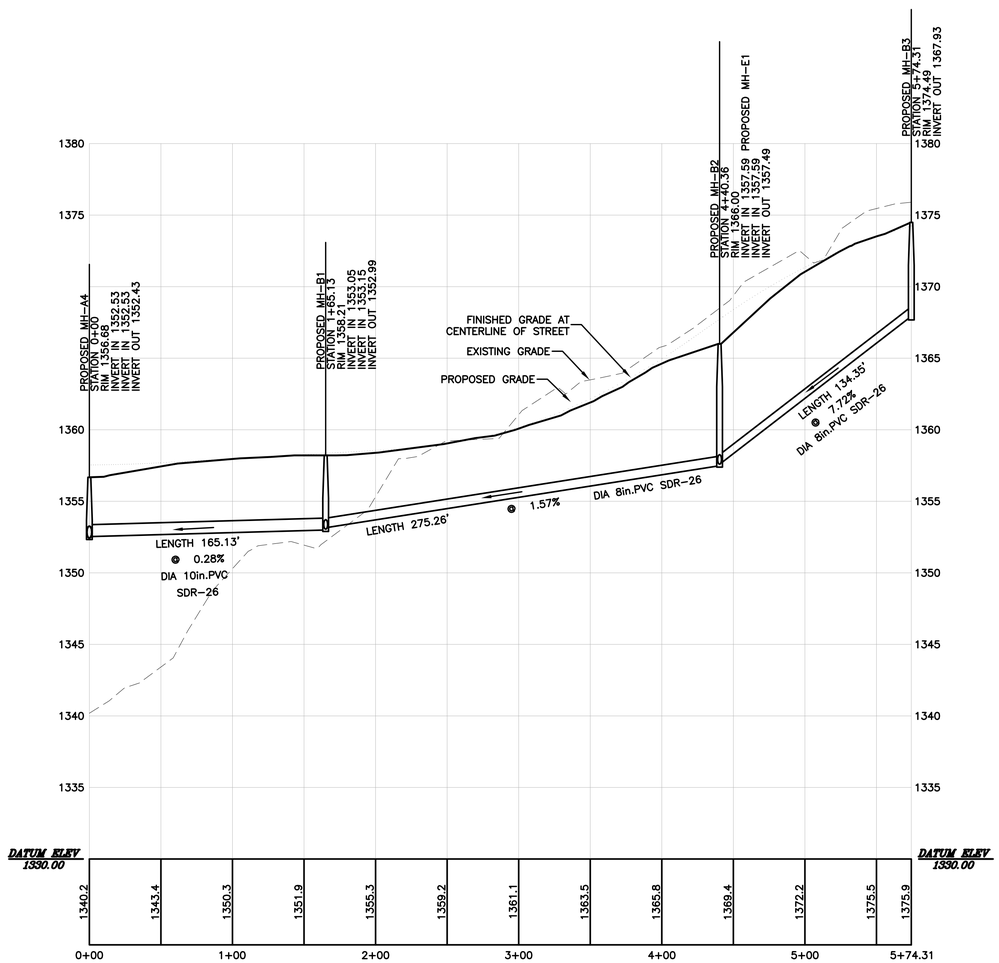
north



SANITARY SEWER LINE "C" PLAN

SCALE: 1" = 50'

north



SANITARY SEWER LINE "B" PROFILE

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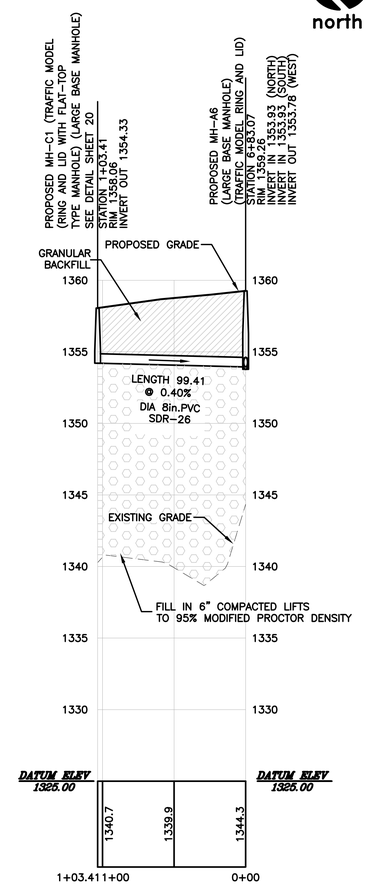
VERTICAL SCALE: 1" = 5'



SANITARY SEWER LINE "C" PROFILE

HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 5'

KEYNOTES:

1. SANITARY SEWER MANHOLE PER RWU STD DETAIL **2/SD-1**
2. SANITARY SEWER MANHOLE PER DETAIL **5/C5.0** AND **3/C16.0**

STATE OF ARKANSAS
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Jason E. Ingalls
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DRAWN BY: JEI
CHECKED BY: JEI
DATE 3/7/2016
JOB NUMBER 16-1004
SHEET NAME
SANITARY SEWER LINES "B" AND "C", PLAN & PROFILE
File No. 16-1004.DWG
C13.0

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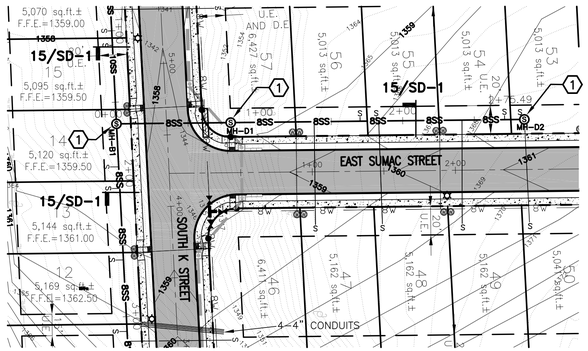
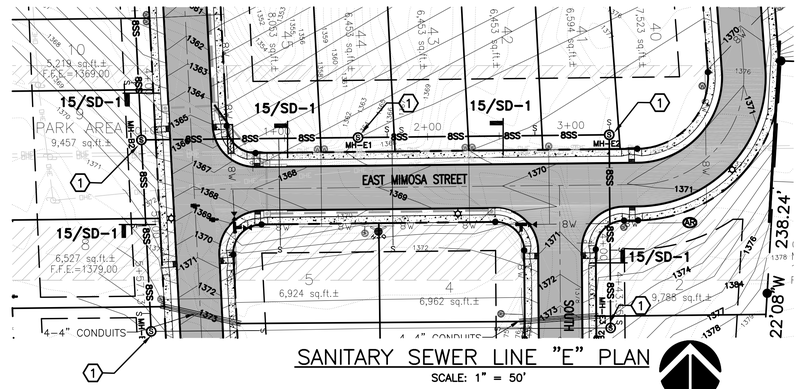


SANITARY SEWER LINE "D" PLAN

SCALE: 1" = 50'

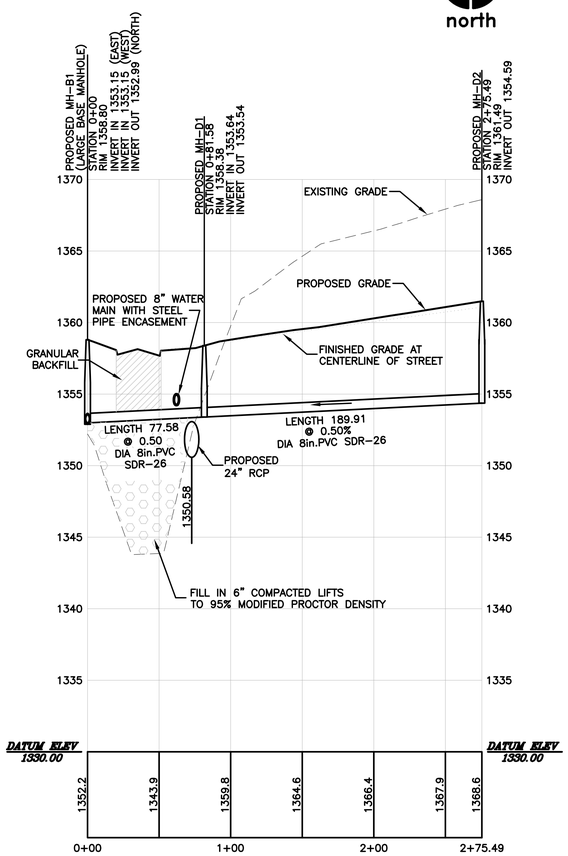
north



SANITARY SEWER LINE "E" PLAN

SCALE: 1" = 50'

north



SANITARY SEWER LINE "D" PROFILE

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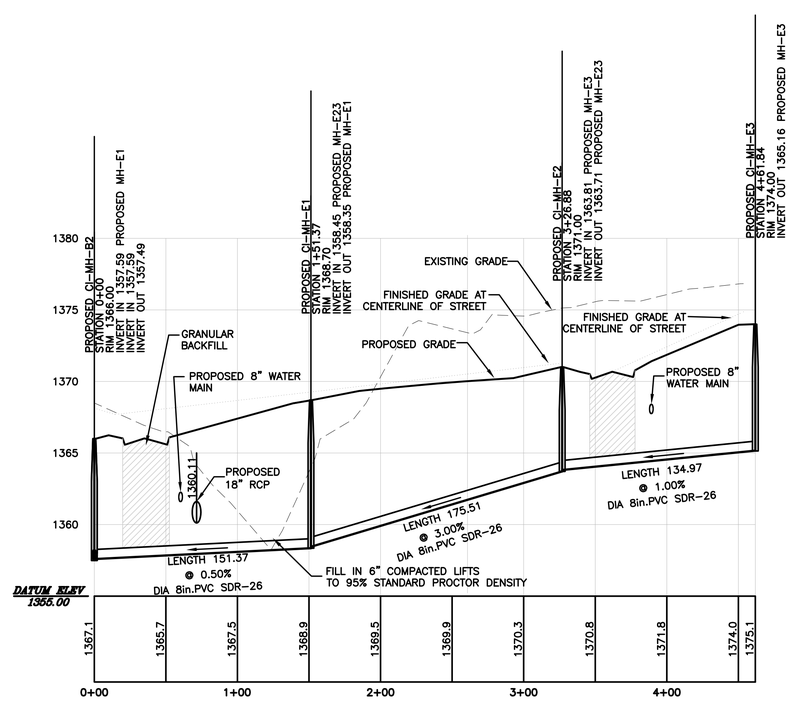
VERTICAL SCALE: 1" = 5'



SANITARY SEWER LINE "E" PROFILE

HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 5'

KEYNOTES:

1. SANITARY SEWER MANHOLE PER RWU STD DETAIL 2/SD-1

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No.11411 Jason E. Inglis 4/8/2016

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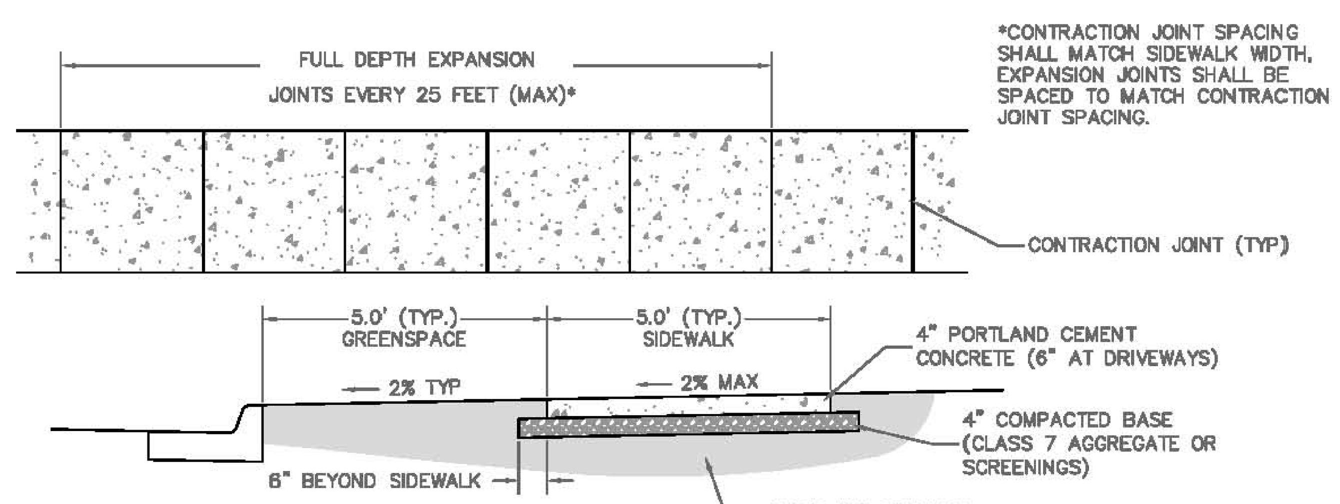
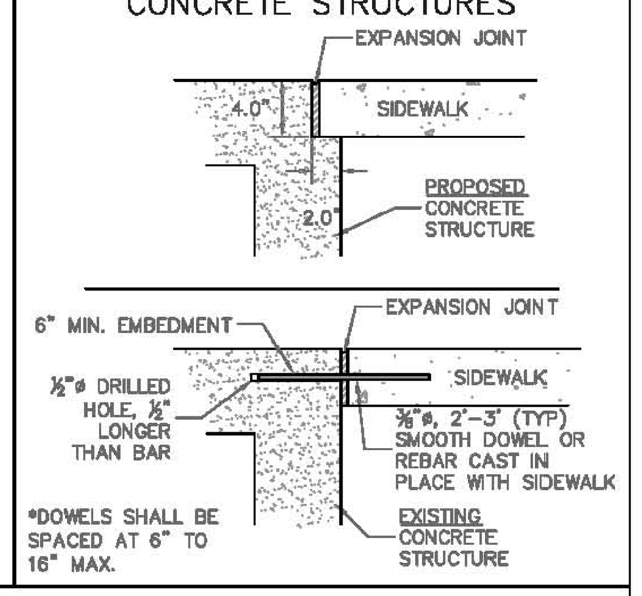


1. ALL SIDEWALKS SHALL HAVE A MAXIMUM 2.0% CROSS SLOPE.
2. ALL SIDEWALKS SHALL RECEIVE A BROOM FINISH.
3. ALL SIDEWALK EDGES SHALL HAVE A ½" RADIUS EDGE.
4. ALL CONCRETE SHALL BE CLASS B (3500 PSI, 4–7% AIR ENTRAINED). CONCRETE MAY NOT BE POURED IF A FALLING AIR TEMPERATURE FALLS BELOW 40° F NOR RESUMED UNTIL AN ASCENDING AIR TEMPERATURE RISES ABOVE 35° F WITHOUT SPECIFIC AUTHORITY FROM THE CITY REPRESENTATIVE. ALL CONCRETE MATERIALS, HANDLING, PLACING, JOINTING, SAMPLING, FINISHING AND CURING SHALL BE PER CITY STANDARD SPECIFICATIONS.
5. EXPANSION JOINTS SHALL BE A MINIMUM OF ½" AND EXTEND THE FULL DEPTH OF THE CONCRETE. EXPANSION JOINT MATERIAL SHALL MEET AASHTO M213 FOR AN ASPHALTIC FIBER EXPANSION JOINT MATERIAL AND BE INSTALLED WITH A ZIP STRIP WHICH IS REMOVED AFTER THE CONCRETE HAS CURED AND SEALED WITH A MASTIC SEALER. OTHER ALLOWABLE EXPANSION JOINT MATERIAL ARE 1"x4" OR 2"x4" PRESSURE TREATED PINE, REDWOOD OR WESTERN RED CEDAR WITH NAILS DRIVEN THROUGH EACH SIDE TO PREVENT THE BOARD FROM BEING PUSHED OUT OF THE JOINT.
6. CONTRACTION JOINTS SHALL BE PLACED AT 5 FOOT INTERVALS.*
7. WHEN PLACING SIDEWALK AGAINST AN EXISTING CONCRETE STRUCTURE WHERE IT IS DESIRABLE THAT THE SIDEWALK REMAIN FLUSH, THE SIDEWALK SHALL BE DOWELED INTO THE STRUCTURE.
8. ALL SIDEWALK BASE SHALL BE PLACED ON FIRM, STABLE SUBGRADE.
9. CONTACT THE CITY 24 HOURS PRIOR TO POURING CONCRETE FOR AN INSPECTION.
10. CONTACT CITY FOR ACTUAL GREENSPACE AND SIDEWALK WIDTHS REQUIRED PRIOR TO BEGINNING OF CONSTRUCTION.
11. SIDEWALK AND GREENSPACE WIDTH MAY BE VARIED TO MATCH EXISTING FEATURES IF APPROVED BY THE PLANNING STAFF.

CONNECTION TO CONCRETE STRUCTURES



CITY OF ROGERS
301 WEST CHESTNUT STREET
ROGERS, ARKANSAS 72756
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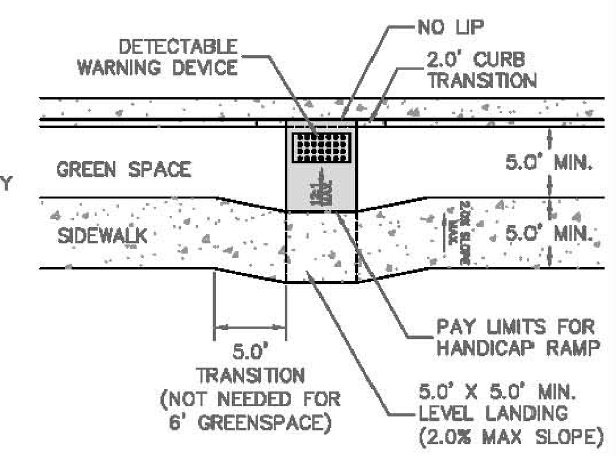
TYPICAL SIDEWALK DETAILS

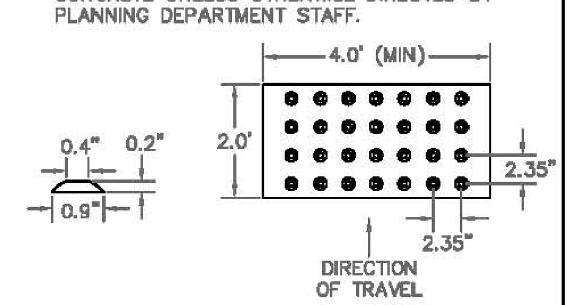
NOT TO SCALE — JANUARY 8, 2013

DETAIL 4

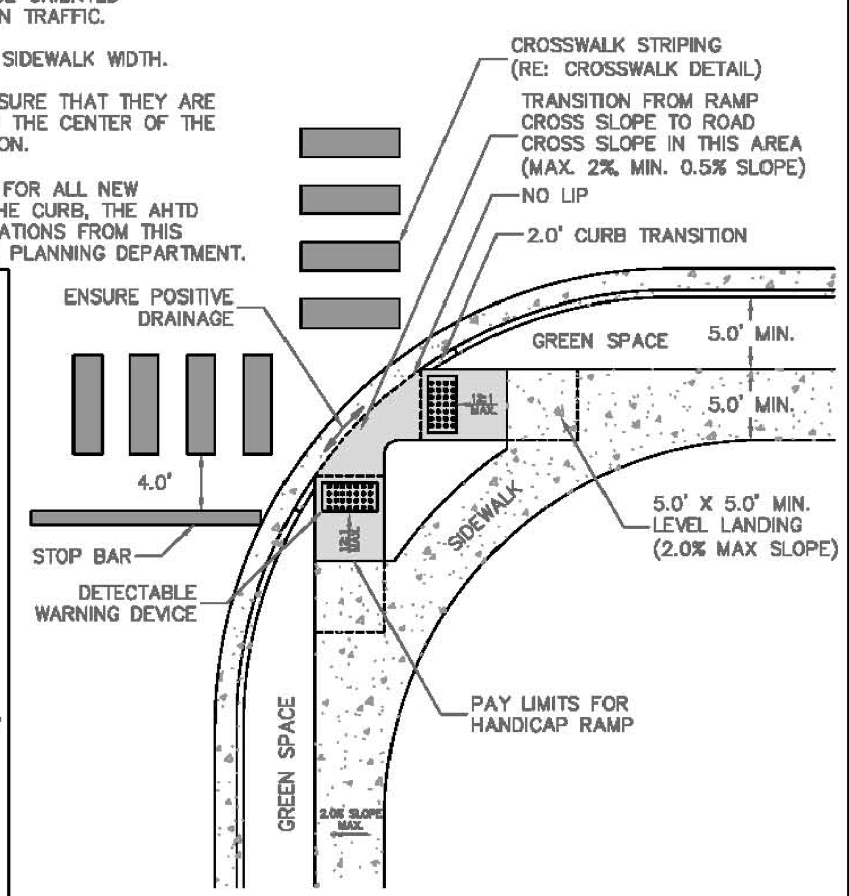
1. ALL ACCESSIBLE RAMPS SHALL HAVE A MAXIMUM SLOPE OF 8.33%.
2. ALL SIDEWALKS SHALL HAVE A MAXIMUM CROSS SLOPE OF 2.0%. SEE SIDEWALK DETAILS FOR SIDEWALK CONSTRUCTION REQUIREMENTS.
3. CONCRETE SHALL BE 6" THICK AND 3500 PSI WITH 4–7% AIR ENTRAINMENT. 4" OF AGGREGATE BASE SHALL BE REQUIRED BENEATH THE RAMP JUST LIKE SIDEWALK. ALL CONCRETE MATERIALS, HANDLING, PLACING, JOINTING, SAMPLING, FINISHING AND CURING SHALL BE PER CITY STANDARD SPECIFICATIONS.
4. DETECTABLE WARNING DEVICES SHALL BE PLACED AT ALL LOCATIONS WHERE RAMPS CROSS A STREET OR A COMMERCIAL DRIVEWAY FOR THE FULL WIDTH OF THE RAMP.
5. THE CONTRACTOR SHALL ENSURE THAT THE GUTTER IS MAINTAINED THROUGH THE AREA OF THE RAMP AND THAT ANY TRANSITION AREAS DRAIN TO THE STREET.
6. THE SHADED AREA SHOWN ON THE DETAIL SHALL BE THE PAY LIMITS CONSIDERED AS PART OF THE ACCESSIBLE RAMP.
7. RAMP AND DETECTABLE WARNING DEVICE SHALL BE ORIENTED PERPENDICULAR TO THE DIRECTION OF PEDESTRIAN TRAFFIC.
8. THE ACCESSIBLE RAMP WIDTH SHALL MATCH THE SIDEWALK WIDTH.
9. RAMPS SHALL BE MODIFIED AS NECESSARY TO INSURE THAT THEY ARE PARALLEL TO A LINE DRAWN FROM ONE RAMP TO THE CENTER OF THE RAMP ON THE OPPOSITE SIDE OF THE INTERSECTION.
10. THE RAMPS SHOWN ARE THE CITY'S PREFERENCE FOR ALL NEW CONSTRUCTION. FOR SIDEWALKS ADJACENT TO THE CURB, THE AHTD TYPE 1 RAMP SHALL BE USED. ANY OTHER DEVIATIONS FROM THIS DETAIL WILL REQUIRE SPECIFIC APPROVAL BY THE PLANNING DEPARTMENT.



1. THE DETECTABLE WARNING DEVICE SHALL BE LOCATED SO THAT THE NEAREST EDGE OF THE DEVICE IS LOCATED AT THE BACK OF CURB.
2. DOMES SHALL BE ALIGNED ON A SQUARE GRID IN THE PREDOMINANT DIRECTION OF TRAVEL TO PERMIT WHEELS TO ROLL BETWEEN DOMES.
3. DETECTABLE WARNING DEVICES SHALL BE A VITRIFIED POLYMER COMPOSITE (VCP) OR CAST IRON AND SHALL BE CAST IN PLASTIC CONCRETE UNLESS OTHERWISE DIRECTED BY PLANNING DEPARTMENT STAFF.



DETECTABLE WARNING DEVICE



CITY OF ROGERS
301 WEST CHESTNUT STREET
ROGERS, ARKANSAS 72756
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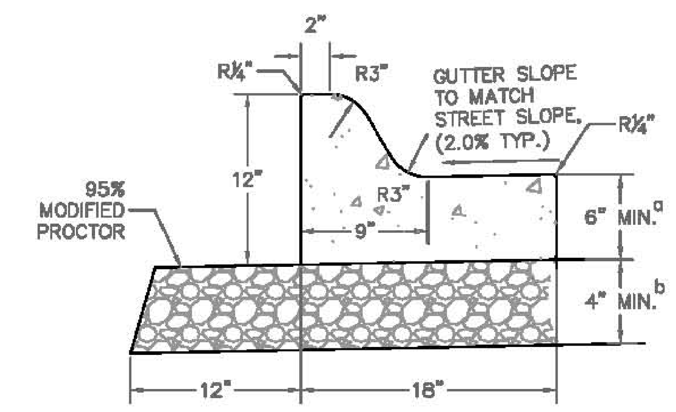
ACCESSIBLE RAMP DETAILS

NOT TO SCALE — JANUARY 8, 2013

DETAIL 1



STANDARD CURB AND GUTTER

MODIFIED CURB AND GUTTER
(PLACE ACROSS ALL DRIVEWAYS)

1. CONCRETE SHALL BE CLASS B, 3500 PSI, 4–7% AIR ENTRAINED. CONCRETE MAY NOT BE POURED IF A FALLING AIR TEMPERATURE FALLS BELOW 40° F NOR RESUMED UNTIL AN ASCENDING AIR TEMPERATURE RISES ABOVE 35° F WITHOUT SPECIFIC AUTHORITY FROM THE CITY REPRESENTATIVE. ALL CONCRETE MATERIALS, HANDLING, PLACING, JOINTING, SAMPLING, FINISHING AND CURING SHALL BE PER CITY STANDARD SPECIFICATIONS.
2. CONTRACTION JOINTS SHALL BE PLACED AT 15 FOOT INTERVALS WITH EXPANSION JOINTS AT 75 FOOT INTERVALS.
3. ALL CONTRACTION JOINTS SHALL BE SEALED WITH SONNEBORN® SONOLASTIC SL 1™ (OR APPROVED EQUAL) ACCORDING TO MANUFACTURER'S INSTRUCTIONS PRIOR TO FINAL ASPHALT PLACEMENT.
4. EXPANSION JOINT MATERIAL SHALL BE REQUIRED AT ALL STATIONARY STRUCTURES OR AS DIRECTED BY ENGINEER. THE EXPANSION MATERIAL SHALL BE ½" ASPHALT IMPREGNATED FIBERBOARD CONFORMING TO AASHTO M–213. MATERIAL SHALL BE LEFT LOWER OR TRIMMED TO BE ½" BELOW THE TOP OF CURB.
5. EXPANSION JOINT MATERIAL SHALL BE FULL DEPTH OF THE CURB AND PERPENDICULAR TO THE CURB LINE.
6. ALL CURB AND GUTTER SHALL RECEIVE A BROOM FINISH.
7. CONTRACTOR SHALL PROVIDE THE CITY 24 HOURS NOTICE WHEN FORMS OR STRINGLINE ARE READY PRIOR TO CONCRETE PLACEMENT.
8. FOR CONCRETE STREETS, IF THE CURB AND GUTTER IS CAST SEPARATELY, ½"ø DOWEL RODS 30" LONG SHALL BE PROVIDED A MINIMUM OF EVERY 30" ON–CENTER.

a. IF MONOLITHICALLY CAST WITH THE STREET, THICKNESS SHALL MATCH STREET PAVING THICKNESS.
b. IF PAVEMENT SECTION IS 10" THICK OR MORE, 4" OF CLASS 7 AGGREGATE SHALL EXTEND UNDER CURB AND 1 FOOT BEYOND. IF THE PAVEMENT SECTION IS LESS THAN 10" THICK, THE CURB AND GUTTER MAY BE PLACED ON SUBGRADE. SUBGRADE SHALL BE PROOF–ROLLED BY A LOADED TANDEM–AXLE DUMP TRUCK.

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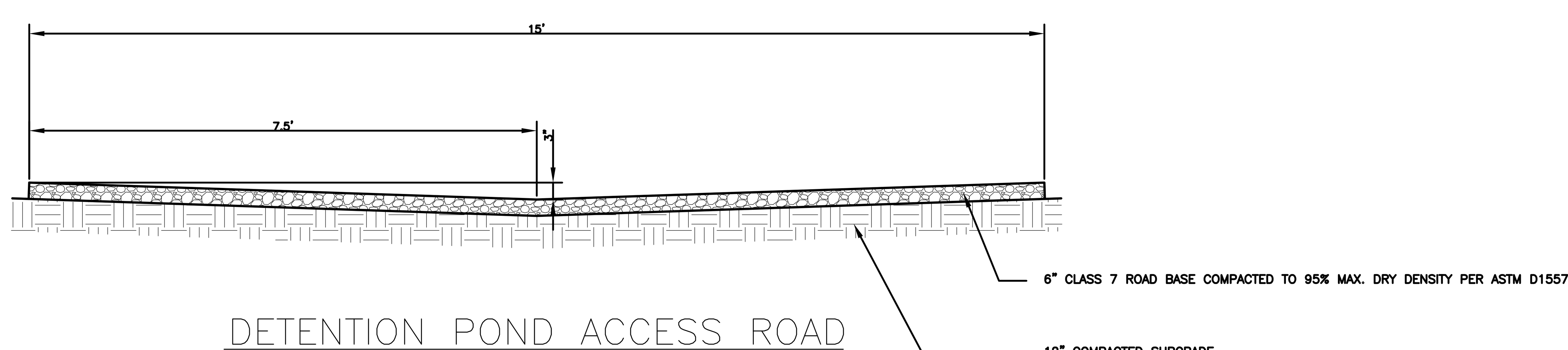
CURB AND GUTTER DETAIL

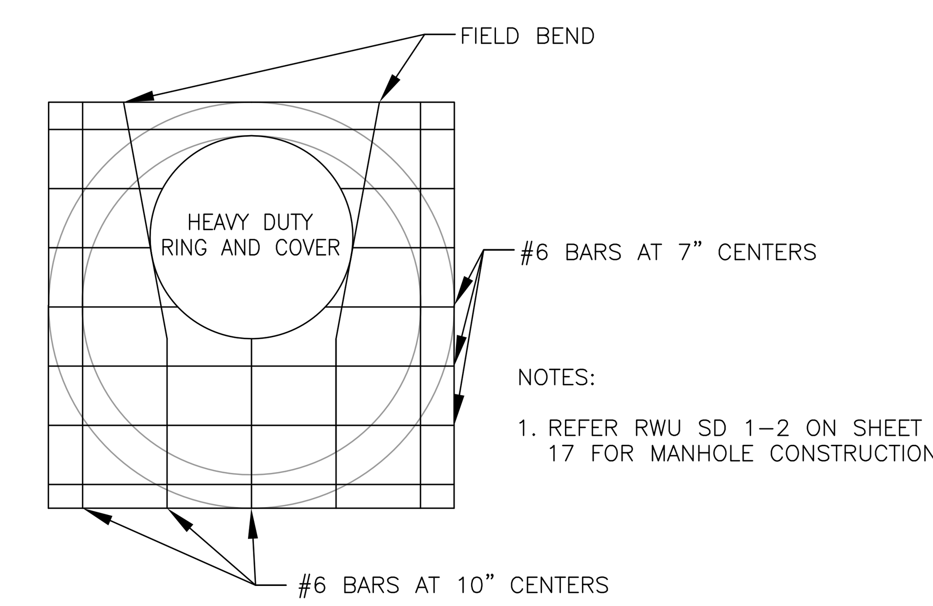
NOT TO SCALE — JUNE 23, 2015

DETAIL 2



DETENTION POND ACCESS ROAD
NOT TO SCALE

DETAIL 8

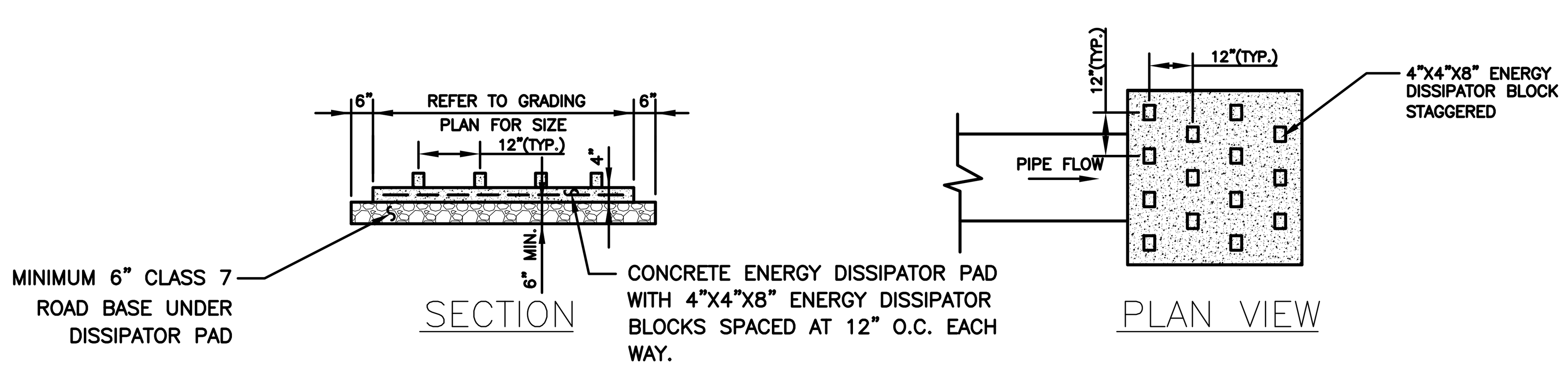


NOTES:

1. REFER RWU SD 1–2 ON SHEET 17 FOR MANHOLE CONSTRUCTION.

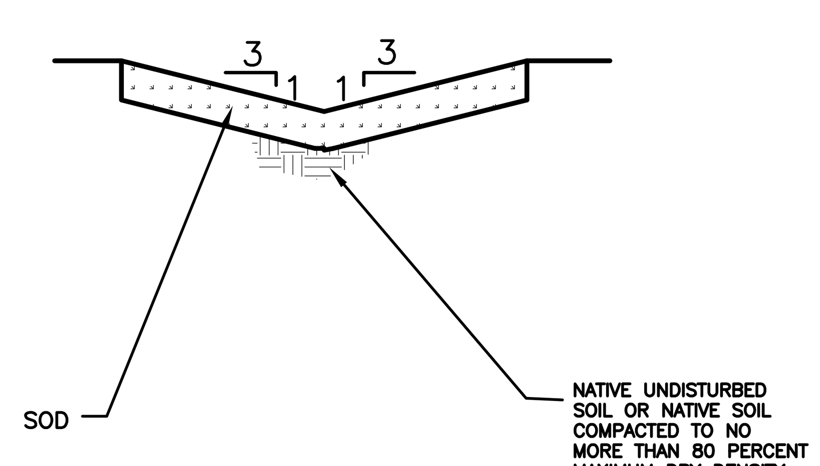
SANITARY SEWER MANHOLE LID FOR MANHOLE C–1
NOT TO SCALE

DETAIL 5



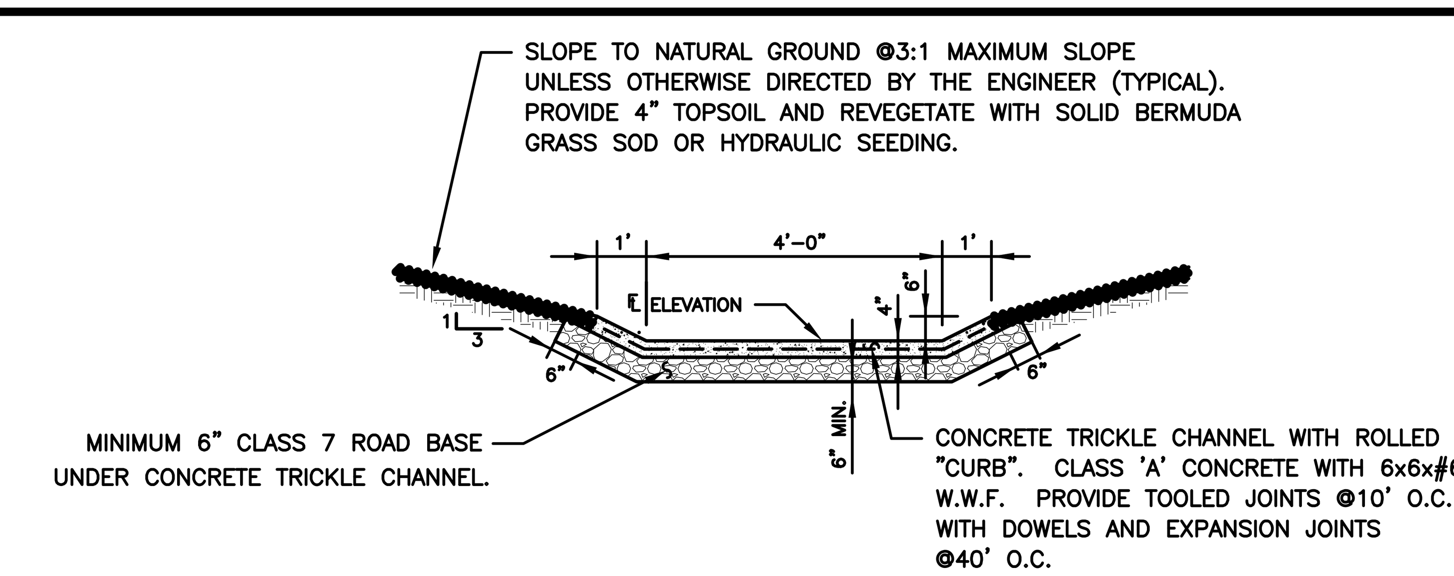
ENERGY DISSIPATOR PAD DETAIL
NOT TO SCALE

DETAIL 3



SWALE
NOT TO SCALE

DETAIL 7



CONCRETE TRICKLE CHANNEL DETAIL
NOT TO SCALE

DETAIL 6

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No.11411 Jason E. Ingalls 4/8/2016

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Expedient Civil Engineering, PLLC

DRAWN BY: JEI
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DATE 3/7/2016
JOB NUMBER 16-1004
SHEET NAME DETAIL SHEET
File No. 16-1004.DWG
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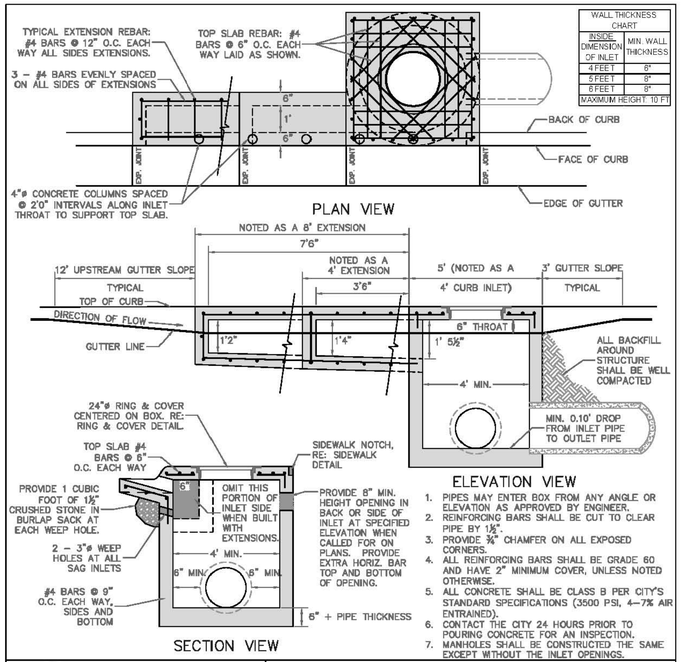

WALL THICKNESS CHART	
INSIDE DIMENSION OF INLET	MIN. WALL THICKNESS
4 FEET	8"
6 FEET	8"
8 FEET	8"
MAXIMUM HEIGHT 10 FT	

1. PIPES MAY ENTER BOX FROM ANY ANGLE OR ELEVATION AS APPROVED BY ENGINEER.
2. REINFORCING BARS SHALL BE CUT TO CLEAR PIPE BY 1½".
3. PROVIDE ¾" CHAMFER ON ALL EXPOSED CORNERS.
4. ALL REINFORCING BARS SHALL BE GRADE 60 AND HAVE 2" MINIMUM COVER, UNLESS NOTED OTHERWISE.
5. ALL CONCRETE SHALL BE CLASS B PER CITY'S STANDARD SPECIFICATIONS (3500 PSI, 4–7% AIR ENTRAINED).
6. CONTACT THE CITY 24 HOURS PRIOR TO POURING CONCRETE FOR AN INSPECTION.
7. MANHOLES SHALL BE CONSTRUCTED THE SAME EXCEPT WITHOUT THE INLET OPENINGS.

CITY OF ROGERS
301 WEST CHESTNUT STREET
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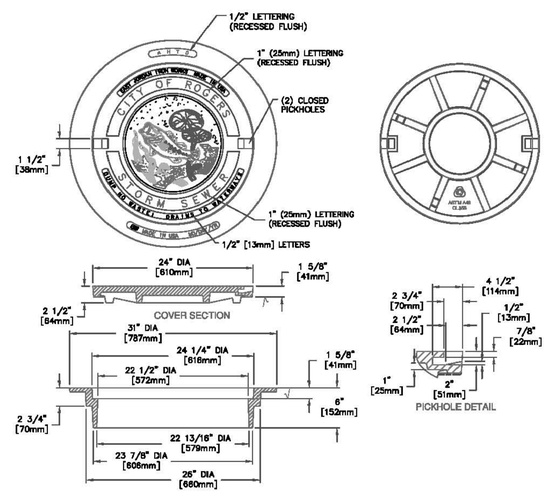
CIRCULAR CURB INLET / MANHOLE DETAIL

NOT TO SCALE — FEBRUARY 15, 2012



1. SHALL BE USED ON ALL STORM SEWER MANHOLE COVERS.
2. ALL COVERS SHALL BE RATED HEAVY DUTY.
3. EAST JORDAN IRON WORKS PRODUCT 2750 ASSEMBLY SHOWN, AN APPROVED EQUAL MAY ALSO BE USED.

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301 WEST CHESTNUT STREET
ROGERS, ARKANSAS 72756
(479) 621-1186

RING AND COVER DETAIL

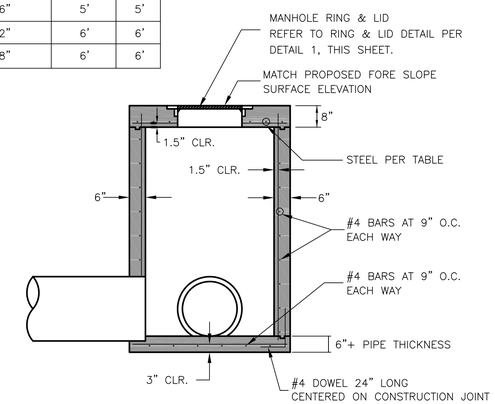
NOT TO SCALE — FEBRUARY 15, 2012

DETAIL 1

PIPE SIZE	W	d
18"	4'	4'
24"	4'	4'
30"	5'	5'
36"	5'	5'
42"	6'	6'
48"	6'	6'

REINFORCING TABLE

WIDTH OF DROP INLET	TOP CONCRETE SLAB REINFORCING
4'	#4'S @ 8" O.C. E.W.
5'	#4'S @ 7" O.C. E.W.
6'	#5'S @ 9" O.C. E.W.

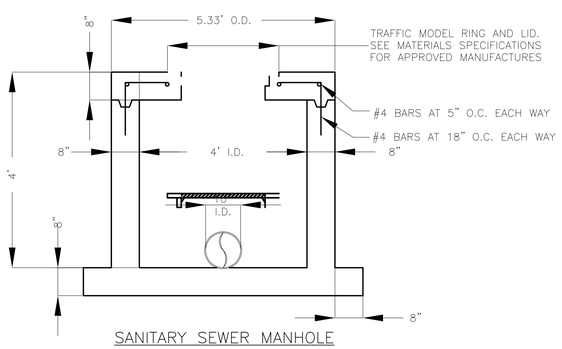


NOTES:

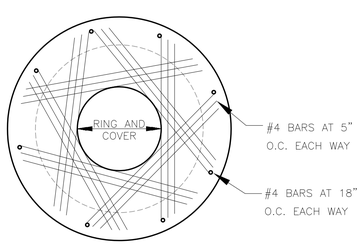
1. PIPES MAY ENTER BOX FROM ANY ANGLE OR ELEVATION AS APPROVED BY ENGINEER.
2. REINFORCING BARS SHALL BE CUT TO CLEAR PIPE BY 1–1/2".
3. PROVIDE 3/4" CHAMFER ON ALL EXPOSED CORNERS.
4. ALL REINFORCING BARS SHALL HAVE 1–1/2" MINIMUM COVER.
5. PLASTIC COATED STEPS SHALL BE INSTALLED IN ALL JUNCTION BOXES 4'– 0" IN DEPTH OR GREATER.
6. EXTENSION LENGTHS SHOWN ON THE PLANS SHALL BE TAKEN TO MEAN CLEAR OPENING LENGTH, NOT INCLUDING WIDTHS OF SUPPORTS.
7. CONCRETE FOR JUNCTION BOXES TO BE CLASS A, 3000 PSI, 5.5 BAG MIX WITH 4–7% AIR ENTRAINMENT.

JUNCTION BOX
NOT TO SCALE

DETAIL 2

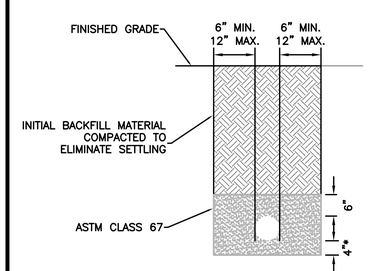


SANITARY SEWER MANHOLE
NOT TO SCALE



TOP SLAB
NOT TO SCALE

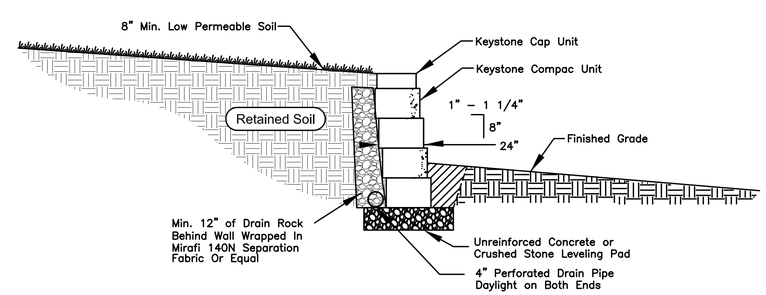
DETAIL 3



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

TYPICAL BEDDING RCP/CMP DETAIL AND BACKFILL DETAIL
NOT TO SCALE

DETAIL 4



TYPICAL GRAVITY WALL SECTION
KEYSTONE WALL
NOT TO SCALE

DETAIL 5

STATE OF ARKANSAS
Jason E. Ingalls
REGISTERED PROFESSIONAL ENGINEER
No.11411
3/8/2016

Rev	Comments	Date
1	PER CITY OF ROGERS COMMENTS	4/8/16

FOXBRIAR SUBDIVISION, PHASE 2
LONGVIEW DRIVE
ROGERS, ARKANSAS

JDH HOLDING, LLC
209 W. ELM ST., ROGERS, AR 72756

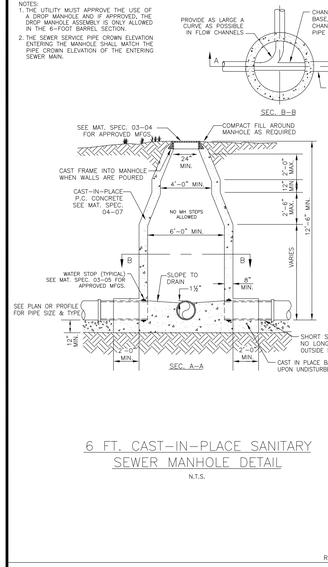
513 N. 7th Ave.
Siloam Springs, AR 72761
P: (501) 759-5300
EMAIL: jason_ingalls@yahoo.com
Expedient Civil Engineering, PLLC

DRAWN BY: JEI
CHECKED BY: JEI
DATE 3/7/2016
JOB NUMBER 16-1004
SHEET NAME
DETAIL SHEET
File No. 16-1004.DWG
C16.0

SEE MATERIAL SPECIFICATIONS FOR APPROVED MANUFACTURERS

NOTES:
1. A MANHOLE BARREL CONSTRUCTION JOINT IS ALLOWED WITHIN A STRAIGHT WALL SEGMENT OF THE BARREL AT 12-FOOT ABOVE THE MANHOLE BASE AND SHALL HAVE A KEY WAY AND #4 REBAR AT 12-INCH ON CENTERS WITH 15" EMBEDMENT. A WATER STOP SHALL BE USED IF DIRECTED BY THE UTILITY.
2. THE BASE AND WALLS SHALL BE POURED MONOLITHICALLY.
3. THE CENTERLINE OF ALL PIPES ENTERING AND LEAVING MANHOLE SHALL PASS THROUGH THE CENTER OF THE MANHOLE.
4. MANHOLES THAT ARE LESS THAN 12'-6" IN DEPTH SHALL BE INDIVIDUALLY DESIGNED PER LOCATION CONDITIONS AND MUST BE APPROVED BY THE UTILITY.
5. POUR OUTSIDE MANHOLE BASE SO THAT THE TOP OF OUTSIDE BASE IS EVEN OR 2-INCH ABOVE THE CROWN OF THE PIPES ENTERING THE MANHOLE BASE. EXTEND MANHOLE BASE TO LIMITS OF EXCAVATION IN ALL DIRECTIONS 24" MINIMUM).
6. CONSTRUCT FLOW CHANNEL FOR ALL PIPES ENTERING MANHOLE, INCLUDING SERVICES. SLOPE CHANNELS TO MATCH PIPE INVERTS.
7. THE TOP OF MANHOLE TO BE LEVEL WITH FINISHED GRADE, UNLESS OTHERWISE NOTED OR DIRECTED BY THE UTILITY.
8. BRUSH FINISH SURFACES OF CONCRETE AND REMOVE ALL SHARP EDGES.

NOTES:
1. THE UTILITY MUST APPROVE THE USE OF A DROP MANHOLE AND IF APPROVED, THE DROP MANHOLE ASSEMBLY IS ONLY ALLOWED IN THE 6-FOOT BARREL SECTION.
2. THE SEWER SERVICE PIPE CROWN ELEVATION ENTERING THE MANHOLE SHALL MATCH THE PIPE CROWN ELEVATION OF THE ENTERING SEWER MAIN.



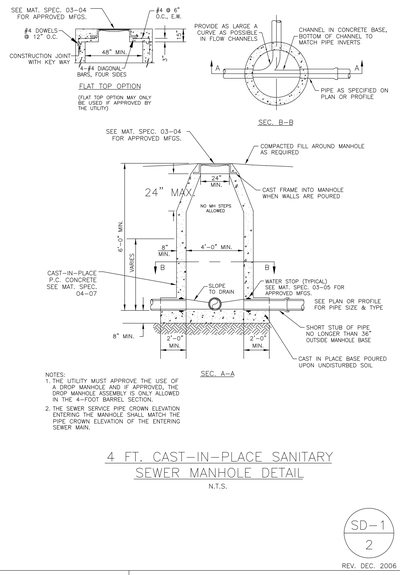
6 FT. CAST-IN-PLACE SANITARY SEWER MANHOLE DETAIL
N.T.S.

SD-1 / 1
REV. DEC. 2006

SEE MATERIAL SPECIFICATIONS FOR APPROVED MANUFACTURERS

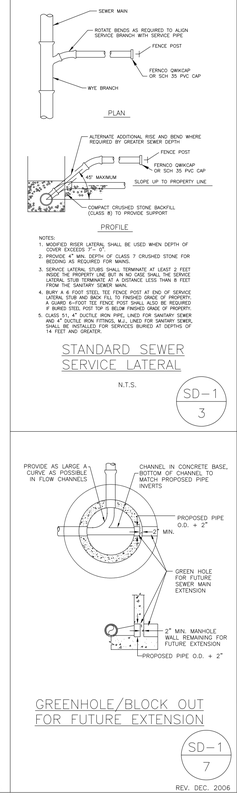
NOTES:
1. A MANHOLE BARREL CONSTRUCTION JOINT IS ALLOWED WITHIN A STRAIGHT WALL SEGMENT OF THE BARREL AT 12-FOOT ABOVE THE MANHOLE BASE AND SHALL HAVE A KEY WAY AND #4 REBAR AT 12-INCH ON CENTERS WITH 15" EMBEDMENT. A WATER STOP SHALL BE USED IF DIRECTED BY THE UTILITY.
2. THE BASE AND WALLS SHALL BE POURED MONOLITHICALLY.
3. THE CENTERLINE OF ALL PIPES ENTERING AND LEAVING MANHOLE SHALL PASS THROUGH THE CENTER OF THE MANHOLE.
4. MANHOLES THAT ARE LESS THAN 6-FOOT IN DEPTH SHALL BE INDIVIDUALLY DESIGNED PER LOCATION CONDITIONS AND MUST BE APPROVED BY THE UTILITY.
5. POUR OUTSIDE MANHOLE BASE SO THAT THE TOP OF OUTSIDE BASE IS EVEN OR 2-INCH ABOVE THE CROWN OF THE PIPES ENTERING THE MANHOLE BASE. EXTEND MANHOLE BASE TO LIMITS OF EXCAVATION IN ALL DIRECTIONS 24" MINIMUM).
6. CONSTRUCT FLOW CHANNEL FOR ALL PIPES ENTERING MANHOLE, INCLUDING SERVICES. SLOPE CHANNELS TO MATCH PIPE INVERTS.
7. THE TOP OF MANHOLE TO BE LEVEL WITH FINISHED GRADE, UNLESS OTHERWISE NOTED OR DIRECTED BY THE UTILITY.
8. BRUSH FINISH SURFACES OF CONCRETE AND REMOVE ALL SHARP EDGES.

NOTES:
1. THE UTILITY MUST APPROVE THE USE OF A DROP MANHOLE AND IF APPROVED, THE DROP MANHOLE ASSEMBLY IS ONLY ALLOWED IN THE 4-FOOT BARREL SECTION.
2. THE SEWER SERVICE PIPE CROWN ELEVATION ENTERING THE MANHOLE SHALL MATCH THE PIPE CROWN ELEVATION OF THE ENTERING SEWER MAIN.



4 FT. CAST-IN-PLACE SANITARY SEWER MANHOLE DETAIL
N.T.S.

SD-1 / 2
REV. DEC. 2006

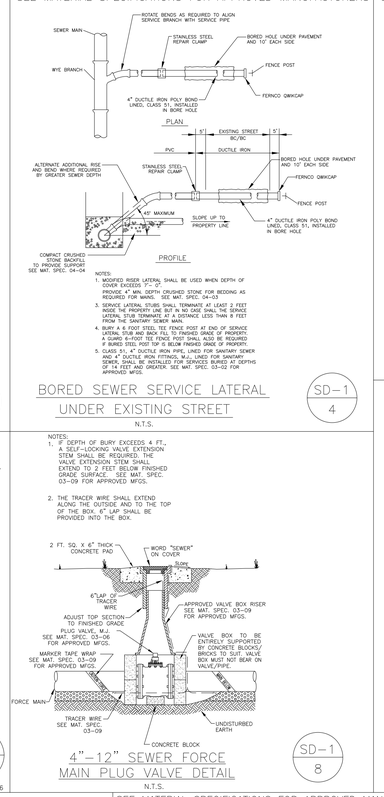


NOTES:
1. MODIFIED RISER LATERAL SHALL BE USED WHEN DEPTH OF COVER EXCEEDS 7'- 0"
2. PROVIDE 4" MIN. DEPTH OF CLASS 7 CRUSHED STONE FOR BEDDING AS REQUIRED FOR MAINS.
3. SERVICE LATERAL STUBS SHALL TERMINATE AT LEAST 2 FEET INSIDE THE PROPERTY LINE BUT IN NO CASE SHALL THE SERVICE LATERAL STUB TERMINATE AT A DISTANCE LESS THAN 8 FEET FROM THE SANITARY SEWER MAIN.
4. SERVICE LATERAL STUBS SHALL TERMINATE AT LEAST 2 FEET INSIDE THE PROPERTY LINE BUT IN NO CASE SHALL THE SERVICE LATERAL STUB TERMINATE AT A DISTANCE LESS THAN 8 FEET FROM THE SANITARY SEWER MAIN.
5. CLASS 51, 4" DUCTILE IRON PIPE, LINED FOR SANITARY SEWER AND 4" DUCTILE IRON FITTINGS, M.J., LINED FOR SANITARY SEWER. SEE MAT. SPEC. 03-09 FOR SERVICES BURIED AT DEPTHS OF 14 FEET AND GREATER.

STANDARD SEWER SERVICE LATERAL
N.T.S.

SD-1 / 3

SEE MATERIAL SPECIFICATIONS FOR APPROVED MANUFACTURERS

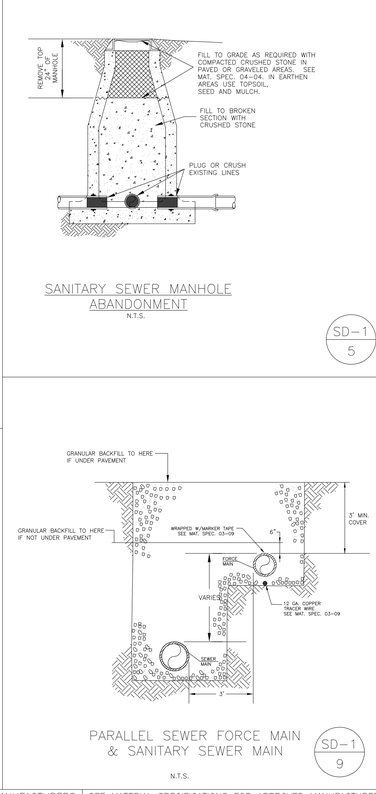


NOTES:
1. MODIFIED RISER LATERAL SHALL BE USED WHEN DEPTH OF COVER EXCEEDS 7'- 0"
2. PROVIDE 4" MIN. DEPTH OF CLASS 7 CRUSHED STONE FOR BEDDING AS REQUIRED FOR MAINS. SEE MAT. SPEC. 04-04
3. SERVICE LATERAL STUBS SHALL TERMINATE AT LEAST 2 FEET INSIDE THE PROPERTY LINE BUT IN NO CASE SHALL THE SERVICE LATERAL STUB TERMINATE AT A DISTANCE LESS THAN 8 FEET FROM THE SANITARY SEWER MAIN.
4. PROVIDE 4" MIN. DEPTH OF CLASS 7 CRUSHED STONE FOR BEDDING AS REQUIRED FOR MAINS.
5. SERVICE LATERAL STUBS SHALL TERMINATE AT LEAST 2 FEET INSIDE THE PROPERTY LINE BUT IN NO CASE SHALL THE SERVICE LATERAL STUB TERMINATE AT A DISTANCE LESS THAN 8 FEET FROM THE SANITARY SEWER MAIN.
6. A GUARD 6-FOOT TEE FENCE POST SHALL ALSO BE REQUIRED IF BURIED STEEL POST TOP IS BELOW FINISHED GRADE OF PROPERTY.
7. CLASS 51, 4" DUCTILE IRON PIPE, LINED FOR SANITARY SEWER AND 4" DUCTILE IRON FITTINGS, M.J., LINED FOR SANITARY SEWER. SEE MAT. SPEC. 03-09 FOR SERVICES BURIED AT DEPTHS OF 14 FEET AND GREATER SEE MAT. SPEC. 03-02 FOR APPROVED MFGS.

BORED SEWER SERVICE LATERAL UNDER EXISTING STREET
N.T.S.

SD-1 / 4

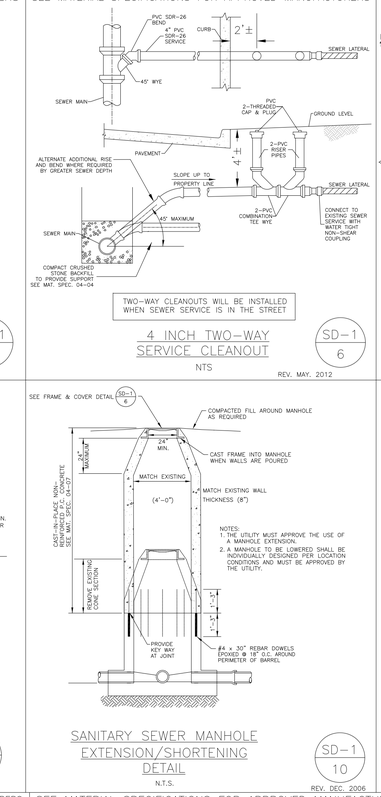
SEE MATERIAL SPECIFICATIONS FOR APPROVED MANUFACTURERS



SANITARY SEWER MANHOLE ABANDONMENT
N.T.S.

SD-1 / 5

SEE MATERIAL SPECIFICATIONS FOR APPROVED MANUFACTURERS



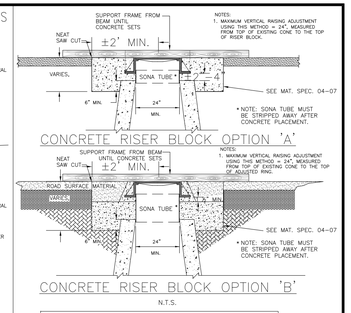
TWO-WAY CLEANOUTS WILL BE INSTALLED WHEN SEWER SERVICE IS IN THE STREET

4 INCH TWO-WAY SERVICE CLEANOUT
NTS
REV. MAY. 2012

SD-1 / 6

SEE MATERIAL SPECIFICATIONS FOR APPROVED MANUFACTURERS

NOTES:
1. MAXIMUM VERTICAL RAISING ADJUSTMENT WITH CONCRETE RISERS = 24", MEASURED FROM TOP OF EXISTING CONE TO THE TOP OF RISER BLOCK.



N.T.S.

FOR MANHOLE EXTENSION ADJUSTMENT WHICH EXCEED 24" IN PAVED AREAS, OR FOR MANHOLE SHORTENING IN PAVED AREAS, SEE DETAIL SD-1 / 10
SANITARY SEWER MANHOLE EXTENSION/SHORTENING DETAIL

MANHOLE ADJUSTMENT IN PAVED AREAS
N.T.S.

SD-1 / 6A
REV. DEC. 2006

GREENHOLE/BLOCK OUT FOR FUTURE EXTENSION
N.T.S.

SD-1 / 7
REV. DEC. 2006

NOTES:
1. IF DEPTH OF BURY EXCEEDS 4 FT., A SELF-LOCKING VALVE EXTENSION STEM SHALL BE REQUIRED. THE VALVE EXTENSION STEM SHALL EXTEND TO 2 FEET BELOW FINISHED GRADE SURFACE. SEE MAT. SPEC. 03-09 FOR APPROVED MFGS.
2. THE TRACER WIRE SHALL EXTEND ALONG THE OUTSIDE AND TO THE TOP OF THE BOX. 6" LAP SHALL BE PROVIDED INTO THE BOX.

4"-12" SEWER FORCE MAIN PLUG VALVE DETAIL
N.T.S.

SD-1 / 8

SEE MATERIAL SPECIFICATIONS FOR APPROVED MANUFACTURERS

PARALLEL SEWER FORCE MAIN & SANITARY SEWER MAIN
N.T.S.

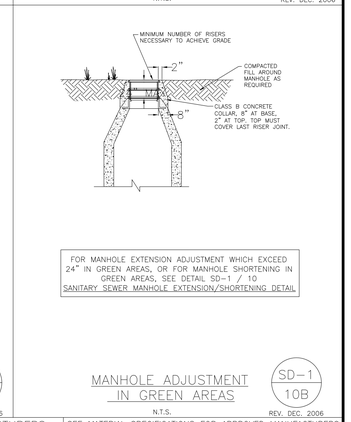
SD-1 / 9

SEE MATERIAL SPECIFICATIONS FOR APPROVED MANUFACTURERS

NOTES:
1. THE UTILITY MUST APPROVE THE USE OF A MANHOLE EXTENSION.
2. A MANHOLE TO BE LOWERED SHALL BE INDIVIDUALLY DESIGNED PER LOCATION CONDITIONS AND MUST BE APPROVED BY THE UTILITY.

SANITARY SEWER MANHOLE EXTENSION/SHORTENING DETAIL
N.T.S.

SD-1 / 10
REV. DEC. 2006



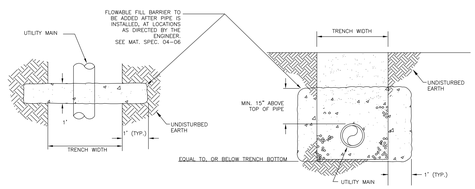
FOR MANHOLE EXTENSION ADJUSTMENT WHICH EXCEED 24" IN GREEN AREAS, OR FOR MANHOLE SHORTENING IN GREEN AREAS, SEE DETAIL SD-1 / 10
SANITARY SEWER MANHOLE EXTENSION/SHORTENING DETAIL

MANHOLE ADJUSTMENT IN GREEN AREAS
N.T.S.

SD-1 / 10B
REV. DEC. 2006

RESERVED

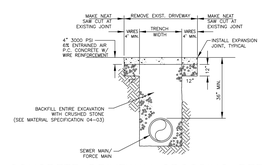
SD-1 / 11



ANTI-SEEPAGE BARRIER COLUMN

SD-1 / 12
REV. DEC. 2006

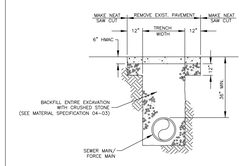
SEE MATERIAL SPECIFICATIONS FOR APPROVED MANUFACTURERS



CONCRETE DRIVEWAY CROSSING REPAIR
N.T.S.

SD-1 / 13

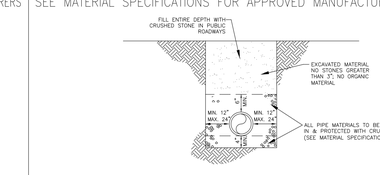
SEE MATERIAL SPECIFICATIONS FOR APPROVED MANUFACTURERS



ASPHALT DRIVEWAY/STREET CROSSING REPAIR
N.T.S.

SD-1 / 14

SEE MATERIAL SPECIFICATIONS FOR APPROVED MANUFACTURERS



TRENCH/PIPE BEDDING DETAIL FOR SEWER FORCE MAINS & SANITARY SEWER MAINS
N.T.S.

SD-1 / 15

SEE MATERIAL SPECIFICATIONS FOR APPROVED MANUFACTURERS

RESERVED

SD-1 / 16
REV. DEC. 2006

GENERAL CONSTRUCTION NOTES:

A. The contractor will be held solely responsible for damage occurring to any property during the construction of this project. Said contractor shall take all necessary precautions to prevent property damage.

B. In accordance with generally accepted construction practices, the contractor will be solely and completely responsible for conditions of the job site, including safety of all persons and property during performance of the work. This requirement will apply continuously and not be limited to normal working hours.

The duty of Rogers Water Utilities to conduct construction inspection or review of the contractor's performance is not an inspection or review of the adequacy of the contractor's safety measures in, on, or near the construction site.

C. All water and sewer improvements shall be constructed in accordance with the latest revision to the Rogers Water Utilities Standard Specifications.

D. The contractor is specifically cautioned that the location and/or elevation of existing utilities as shown on these plans is based on records of the various utility companies and, where possible, measurements taken in the field. The information is not to be relied on as being exact or complete. The contractor must call the appropriate utility company at least 48 hours before any excavation to request exact field location of utilities. It shall be the responsibility of the contractor to relocate all existing utilities which conflict with the proposed improvements shown on the plans.

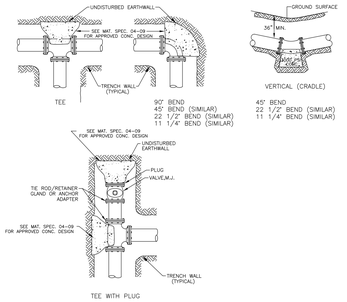
E. Contractor is to remove and dispose of all debris, rubbish and other materials resulting from previous and current demolition operations. Disposal will be in accordance with all local, state and/or federal regulations governing such operations.

F. Prior to installation of any utilities, the contractor is to excavate, verify, and calculate all crossings and inform the Rogers Water Utilities of any conflicts prior to construction.

G. Construction shall not start on any water utility until approval is given by Rogers Water Utilities. Said contractor shall not operate any valve, hydrant, or water utility appurtenance nor shall he attach to or tap any water utility main without approval. The contractor shall bear the cost and consequence of any disruption of utility operation caused by construction.

SD-1 / 17

SEE MATERIAL SPECIFICATIONS FOR APPROVED MANUFACTURERS



NOTES:
1. All fittings shall be mechanical joint.
2. Do not cover bells or flanges with concrete.
3. Wrap all fittings with visqueen.
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 and vertical, shall be backed.
7. Reaction backing table is based on 150 p.s.i. and soil bearing pressure of 2,500 lb./sq. ft. Additional backing may be required in some areas as directed by engineer.

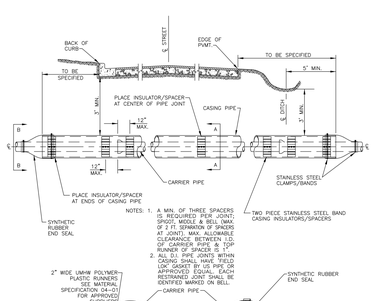
REACTION BACKING TABLE
REQUIRED SQ. FT. OF UNDISTURBED EARTHWALL FOR REACTION BACKING

SIZE	TYPE OF FITTINGS				
	TEE OR PLUG/CAP	90°	45°	22 1/2°	11 1/4°
3"	1	1	1	1	1
4"	1	1	1	1	1
6"	2	2	1	1	1
8"	3	3	1	1	1
10"	4	4	2	1	2
12"	10	10	5	3	2

SEWER FORCE MAIN THRUST BLOCKING DETAIL
N.T.S.

SD-1 / 18

SEE MATERIAL SPECIFICATIONS FOR APPROVED MANUFACTURERS



NOTES: 1. A MIN. OF THREE SPACERS PER PIPE REQUIRED. TEE JOINT, SPIGOT, MIDDLE & BELL (MAX. OF 2 FT. SEPARATION OF SPACERS AT JOINT). MAX. ALLOWABLE CLEARANCE BETWEEN I.D. OF CASING AND O.D. OF RUNNER OF SPACER IS 1".
2. ALL D.I. PIPE JOINTS WITHIN CASING SHALL HAVE "FIELD LOK" GASKET BY US PIPE OR APPROVED EQUAL. THE GASKET RETAINED JOINT SHALL BE IDENTIFIED MARKED ON BELL.

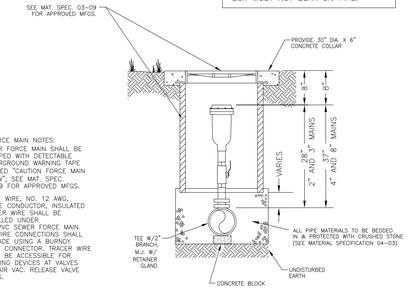
CARRIER & CASING SIZES								
CARRIER	6"	8"	10"	12"	15"	16"	18"	20"	24"
CASING	16"	18"	18"	24"	30"	30"	30"	36"	36"
CASING/WALL THICKNESS	.250	.250	.250	.375	.500	.500	.500	.500	.500

JACK & BORE UNDER ROADWAY DETAIL
N.T.S.

SD-1 / 19
REV. DEC. 2006

SEE MATERIAL SPECIFICATIONS FOR APPROVED MANUFACTURERS

METER BOX TO BE ENTIRELY SUPPORTED BY CONCRETE BLOCKS/BRICKS TO SUIT. BOX MUST NOT BEAR ON PIPE.

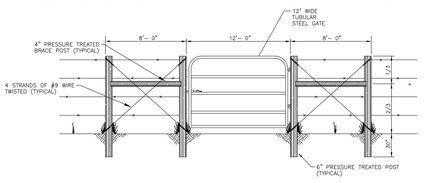


PVC FORCE MAIN NOTES:
1. SEWER FORCE MAIN SHALL BE WRAPPED WITH DETECTABLE UNDERGROUND WARNING TAPE LABELED "CAUTION FORCE MAIN BELOW", SEE MAT. SPEC. 03-09 FOR APPROVED MFGS.
2. TRACE WIRE, NO. 12 AWG, SINGLE CONDUCTOR, INSULATED COPPER WIRE SHALL BE INSTALLED UNDER THE PVC SEWER FORCE MAIN. ALL WIRE CONNECTIONS SHALL BE MADE USING A BURNDY CRIMP CONNECTOR. TRACER WIRE SHALL BE ACCESSIBLE FOR LOCATING DEVICES AT VALVES AND AIR VAC. RELEASE VALVE BOXES.

SEWER FORCE MAIN AIR AND VACUUM RELEASE VALVE ASSEMBLY
N.T.S.

SD-1 / 20

SEE MATERIAL SPECIFICATIONS FOR APPROVED MANUFACTURERS

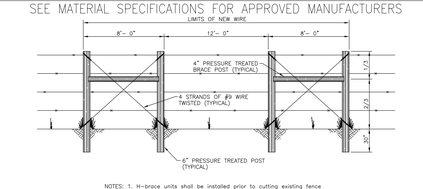


NOTES: 1. H-brace units shall be installed prior to cutting existing fence
2. Height of post to match existing posts.
3. New wire shall be the same type as existing fence.

FARM GATE INSTALLATION DETAIL
N.T.S.

SD-1 / 21

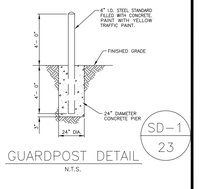
SEE MATERIAL SPECIFICATIONS FOR APPROVED MANUFACTURERS



NOTES: 1. H-brace units shall be installed prior to cutting existing fence
2. Height of post to match existing posts.
3. New wire shall be the same type as existing fence.

BARBED WIRE FENCE CROSSING REPAIR DETAIL
N.T.S.

SD-1 / 22



GUARDPOST DETAIL
N.T.S.

SD-1 / 23

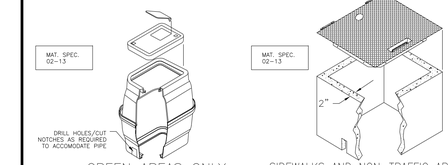
SEWER DETAILS
REVISED 05/08/2012

ROGERS WATER UTILITIES
P.O. DRAWER 338
OFFICE - 601 SOUTH 2ND ROGERS, ARKANSAS
72757-0338

DRAWN BY:	DATE:	SHEET NO.
DDS	REV. AUG./2007	SD-1
CHECKED BY: EB	PROJECT NUMBER: STANDARD SEWER DETAILS	

SD-1-2007.DWG

SEE MATERIAL SPECIFICATIONS FOR APPROVED MANUFACTURERS

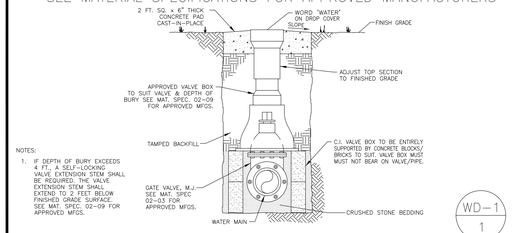


GREEN AREAS ONLY 1½"–2" METER BOX DETAILS

SIDEWALKS AND NON-TRAFFIC AREAS 1½"–2" METER BOX DETAILS

N.T.S. N.T.S. REV. DEC. 2006 WD–1 1A

SEE MATERIAL SPECIFICATIONS FOR APPROVED MANUFACTURERS

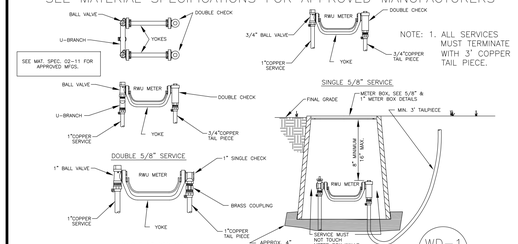


NOTES:
1. IF DEPTH OF BURY EXCEEDS 4 FT., A SELF-LOCKING VALVE EXTENSION STEM SHALL BE REQUIRED. THE VALVE EXTENSION STEM SHALL EXTEND TO 2 FEET BELOW FINISHED GRADE SURFACE. SEE MAT. SPEC. 02-09 FOR APPROVED MFGS.

GATE VALVE DETAIL

N.T.S. REV. DEC. 2006 WD–1 1

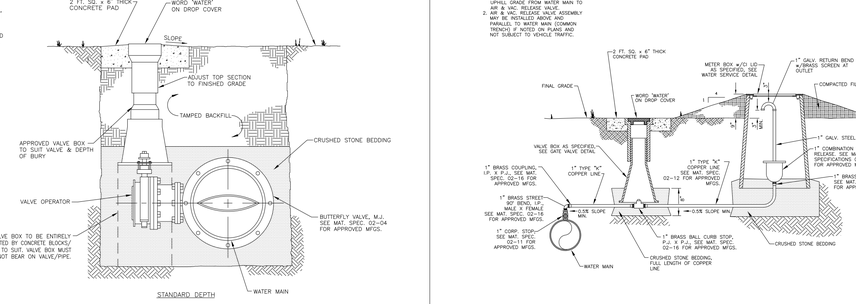
SEE MATERIAL SPECIFICATIONS FOR APPROVED MANUFACTURERS



STANDARD 5/8" & 1" WATER SERVICE DETAILS

N.T.S. REV. DEC. 2006 WD–1 6

SEE MATERIAL SPECIFICATIONS FOR APPROVED MANUFACTURERS



NOTES:
1. IF DEPTH OF BURY EXCEEDS 4 FT., A SELF-LOCKING VALVE EXTENSION STEM SHALL BE REQUIRED. THE VALVE EXTENSION STEM SHALL EXTEND TO 2 FEET BELOW FINISHED GRADE SURFACE. SEE MAT. SPEC. 02-09 FOR APPROVED MFGS.

BUTTERFLY VALVE DETAIL 12-INCH WATER MAINS AND LARGER

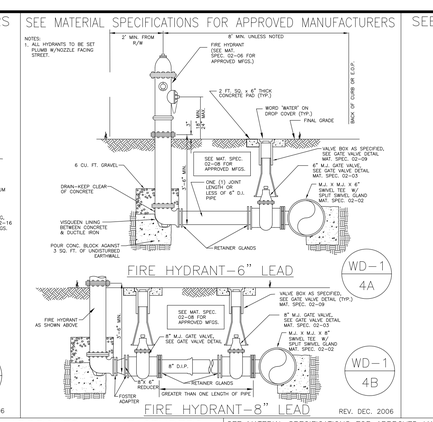
N.T.S. WD–1 2 REV. DEC. 2006

SEE MATERIAL SPECIFICATIONS FOR APPROVED MANUFACTURERS

1" AIR & VACUUM RELEASE VALVE ASSEMBLY

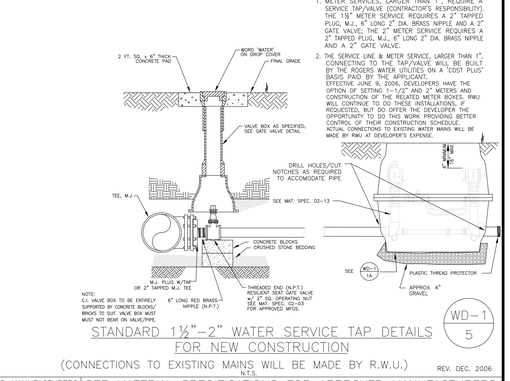
N.T.S. WD–1 3 REV. DEC. 2006

SEE MATERIAL SPECIFICATIONS FOR APPROVED MANUFACTURERS



REV. DEC. 2006

SEE MATERIAL SPECIFICATIONS FOR APPROVED MANUFACTURERS

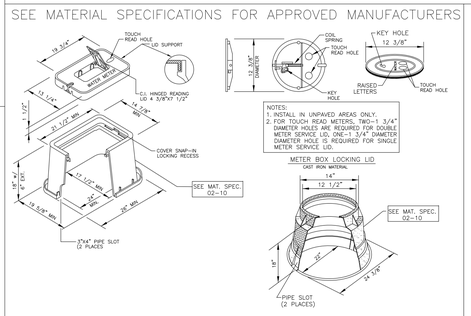


STANDARD 1½"–2" WATER SERVICE TAP DETAILS FOR NEW CONSTRUCTION

(CONNECTIONS TO EXISTING MAINS WILL BE MADE BY R.W.U.)

N.T.S. REV. DEC. 2006 WD–1 5

SEE MATERIAL SPECIFICATIONS FOR APPROVED MANUFACTURERS



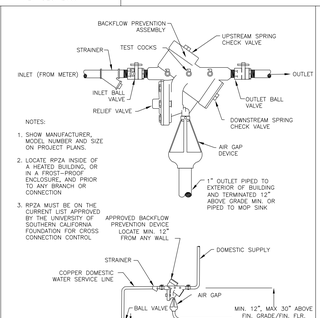
TYPICAL 1" METER BOX DETAIL (SINGLE ONLY)

TYPICAL 5/8" METER BOX DETAIL (SINGLE & DOUBLE)

5/8" & 1" METER BOX DETAILS

N.T.S. N.T.S. REV. DEC. 2006 WD–1 7

SEE MATERIAL SPECIFICATIONS FOR APPROVED MANUFACTURERS

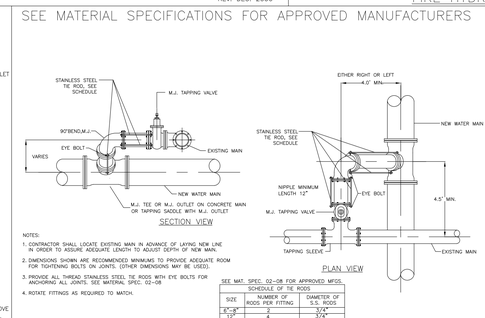


NOTES:
1. SHOW MANUFACTURER, MODEL NUMBER AND SIZE ON PROJECT PLANS.
2. LOCATE RPZA INSIDE OF THE ISOLATED BUILDING OR IN A FROST-PROOF ENCLOSURE, AND PRIOR TO ANY BRANCH OR CONNECTION
3. RPZA MUST BE ON THE CURRENT LIST APPROVED BY THE UNIVERSITY OF SOUTHERN CALIFORNIA FOUNDATION FOR CROSS CONNECTION CONTROL.

REDUCED PRESSURE ZONE ASSEMBLY (RPZA)

N.T.S. REV. DEC. 2006 WD–1 8

SEE MATERIAL SPECIFICATIONS FOR APPROVED MANUFACTURERS



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 ALL THREAD STAINLESS STEEL TIE RODS WITH EYE BOLTS FOR ANCHORING ALL JOINTS. SEE MATERIAL SPEC. 02-08
4. ROTATE FITTINGS AS REQUIRED TO MATCH.

SEE MAT. SPEC. 02-08 FOR APPROVED MFGS.

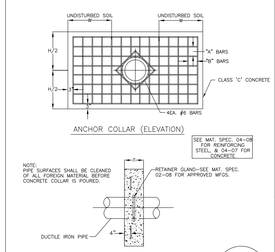
SCHEDULE OF TIE RODS	
SIZE	NUMBER OF RODS PER FITTING	DIAMETER OF S.S. RODS
6"–8"	4	3/4"
12"	4	3/4"

SWING CONNECTION – NEW MAIN TO EXISTING MAIN

N.T.S. REV. DEC. 2006 WD–1 9

SEE MATERIAL SPECIFICATIONS FOR APPROVED MANUFACTURERS

ANCHOR COLLAR SCHEDULE						
PIPE SIZE	DIMENSIONS W	T	L	M	REINFORCING BARS "A" BARS	REINFORCING BARS "B" BARS
6"	1.5"	2.0"	1.0'	M.J. RETAINER GLAND	#9BC'	#9BC'
8"	1.5"	2.0"	1.0'	M.J. RETAINER GLAND	#9BC'	#9BC'
12"	2.0"	4.0"	1.5'	M.J. RETAINER GLAND	#9BC'	#9BC'
18"	3.0"	5.0"	2.0'	M.J. RETAINER GLAND	#9BC'	#9BC'
24"	3.0"	5.5"	2.0'	M.J. RETAINER GLAND	#7BC'	#9BC'*



ANCHOR COLLAR (ELEVATION)

SEE MAT. SPEC. 04-08 FOR REINFORCING STEEL, & 04-07 FOR CONCRETE

NOTE: ALL SURFACES SHALL BE CLEANED OF ALL FOREIGN MATERIAL BEFORE CONCRETE COLLAR IS POURED.

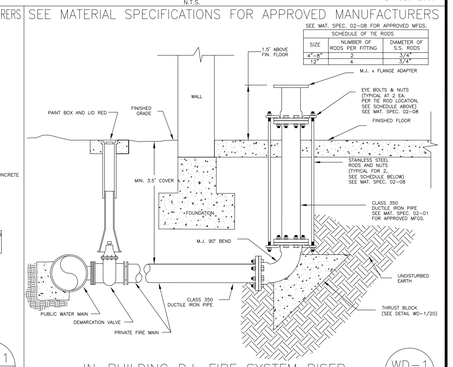
ANCHOR COLLAR BLOCK

N.T.S. REV. DEC. 2006 WD–1 10

SEE MATERIAL SPECIFICATIONS FOR APPROVED MANUFACTURERS

SEE MAT. SPEC. 02-08 FOR APPROVED MFGS.

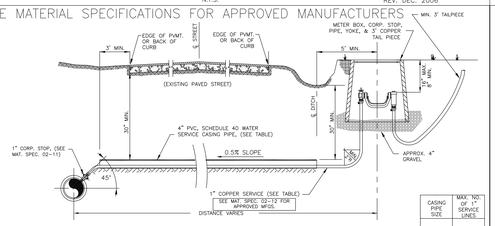
SCHEDULE OF THE RODS	
SIZE	NUMBER OF RODS PER FITTING	DIAMETER OF S.S. RODS
4"–8"	2	3/4"
12"	4	3/4"



IN-BUILDING D.I. FIRE SYSTEM RISER LEAD-IN DETAIL

N.T.S. REV. AUG. 2007 WD–1 11A

SEE MATERIAL SPECIFICATIONS FOR APPROVED MANUFACTURERS

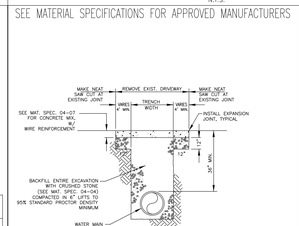


CASING PIPE SIZE	MAX. NO. OF 1" SERVICE LINES
4"	2

TYPICAL WATER SERVICE LINE WITH P.V.C. BORED CASING PIPE FOR FAR SIDE SERVICE ON EXISTING STREET

N.T.S. REV. DEC. 2006 WD–1 12

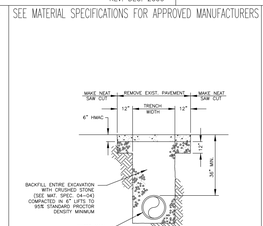
SEE MATERIAL SPECIFICATIONS FOR APPROVED MANUFACTURERS



PERMANENT CONCRETE DRIVEWAY CROSSING REPAIR

N.T.S. REV. DEC. 2006 WD–1 15

SEE MATERIAL SPECIFICATIONS FOR APPROVED MANUFACTURERS



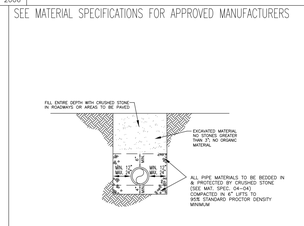
PERMANENT ASPHALT DRIVEWAY/STREET CROSSING REPAIR

N.T.S. REV. DEC. 2006 WD–1 16

RESERVED

REV. AUG. 2007

SEE MATERIAL SPECIFICATIONS FOR APPROVED MANUFACTURERS



TRENCH/PIPE BEDDING DETAIL FOR WATER MAINS

N.T.S. WD–1 18 REV. DEC. 2006

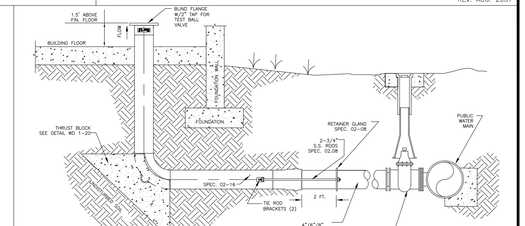
RESERVED

WD–1 13 WD–1 14 WD–1 17

NOT USED

REV. AUG. 2007

SEE MATERIAL SPECIFICATIONS FOR APPROVED MANUFACTURERS



IN-BUILDING STAINLESS STEEL FIRE LINE RISER

N.T.S. REV. AUG. 2007 WD–1 11B

GENERAL CONSTRUCTION NOTES:

A. The contractor will be held solely responsible for damage occurring to any property during the construction of this project. Said contractor shall take all necessary precautions to prevent property damage.

B. In accordance with generally accepted construction practices, the contractor will be solely and completely responsible for conditions of the job site, including safety of all persons and property during performance of the work. This requirement will apply continuously and not be limited to normal working hours.

The duty of Rogers Water Utilities to conduct construction inspection or review of the contractor's performance is not an inspection or review of the adequacy of the contractor's safety measures in, on, or near the construction site.

C. All water and sewer improvements shall be constructed in accordance with the latest revision to the Rogers Water Utilities Standard Specifications.

D. The contractor is specifically cautioned that the location and/or elevation of existing utilities as shown on these plans is based on records of the various utility companies and, where possible, measurements taken in the field. The information is not to be relied on as being exact or complete. The contractor must call the appropriate utility company at least 48 hours before any excavation to request exact field location of utilities. It shall be the responsibility of the contractor to relocate all existing utilities which conflict with the proposed improvements shown on the plans.

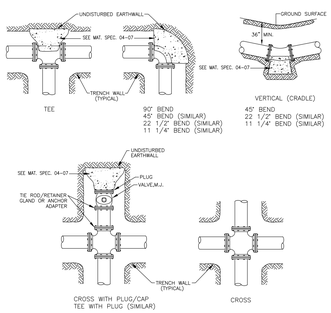
E. Contractor is to remove and dispose of all debris, rubbish and other materials resulting from previous and current demolition operations. Disposal will be in accordance with all local, state and/or federal regulations governing such operations.

F. Prior to installation of any utilities, the contractor is to excavate, verify, and calculate all crossings and inform the Rogers Water Utilities of any conflicts prior to construction.

G. Construction shall not start on any water utility until approval is given by Rogers Water Utilities. Said contractor shall not operate any valve, hydrant, or water utility appurtenance nor shall he attach to or tap any water utility main without approval. The contractor shall bear the cost and consequence of any disruption of utility operation caused by construction.

WD–1 19

SEE MATERIAL SPECIFICATIONS FOR APPROVED MANUFACTURERS



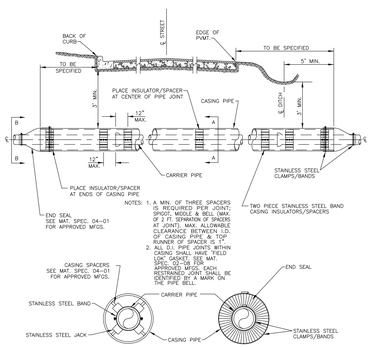
NOTES:
1. All fittings shall be mechanical joint with retainer glands.
2. Do not cover bells or flanges with concrete.
3. Wrap all fittings with visqueen.
4. Block all tees according to size of branch.
5. Blocking future line extensions shall be such that later removal is possible.
6. All bends where fittings are used, both horizontal and vertical, shall be backed.
7. Reaction backing table is based on 150 p.s.i. and soil bearing pressure of 2,500 lb./sq. ft. Additional backing may be required in some areas as directed by engineer.

REACTION BACKING TABLE REQUIRED SQ. FT. OF UNDISTURBED EARTHWALL FOR REACTION BACKING					
SIZE	TYPE OF FITTINGS TEE OR PLUG/CAP	90°	45°	22 1/2°	11 1/4°
4"	4	3	2	1	1
6"	5	5	2	1	1
8"	7	6	4	2	1
12"	10	10	5	3	2
18"	26	26	14	7	3
24"	38	38	20	10	4
30"	59	59	32	16	10

THRUST BLOCKING DETAIL

N.T.S. WD–1 20 REV. DEC. 2006

SEE MATERIAL SPECIFICATIONS FOR APPROVED MANUFACTURERS



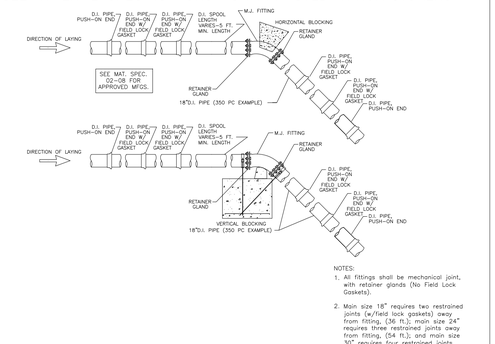
SEE MATERIAL SPECIFICATION 04-02

CARRIER & CASING SIZES						
CARRIER	6"	8"	12"	18"	24"	30"
CASING	16"	16"	24"	30"	36"	48"
CASING/WALL THICKNESS	.250	.250	.375	.500	.500	.625

JACK & BORE UNDER ROADWAY DETAIL

N.T.S. WD–1 21 REV. DEC. 2006

SEE MATERIAL SPECIFICATIONS FOR APPROVED MANUFACTURERS



NOTES:
1. All fittings shall be mechanical joint, with retainer glands (No Field Lock Gaskets).
2. Main size 18" requires two restrained joints (w/field lock gaskets) away from fitting, (36 ft.); main size 24" requires three restrained joints away from fitting, (54 ft.); and main size 30" requires four restrained joints away from fitting (72 ft.), or as specified by Engineer.

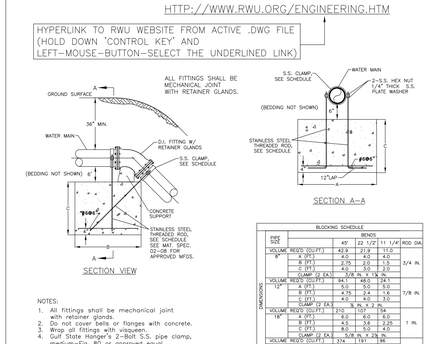
FIELD LOCK GASKETS DETAIL FOR HORIZONTAL AND VERTICAL BENDS (TO BE USED IN CONJUNCTION WITH THRUST BLOCKING) FOR 18-INCH AND LARGER WATER MAINS

N.T.S. WD–1 22 REV. DEC. 2006

SEE MATERIAL SPECIFICATIONS FOR APPROVED MANUFACTURERS

HTTP://WWW.RWU.ORG/ENGINEERING.HTM

HYPERLINK TO RWU WEBSITE FROM ACTIVE .DWG FILE (HOLD DOWN 'CONTROL KEY' AND LEFT-MOUSE-BUTTON-SELECT THE UNDERLINED LINK)



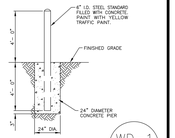
NOTES:
1. All fittings shall be mechanical joint with retainer glands.
2. Do not cover bells or flanges with concrete.
3. Wrap all fittings with visqueen.
4. Gulf State Hanger's 2-Bolt S.S. pipe clamp, medium-Fig. 80 or approved equal.

BLOCKING SCHEDULE						
PIPE SIZE		BENDS 45°	22 1/2°	11 1/4°	ROD DIA.
DIMENSIONS	VOLUME REQ'D (CU.FT.)	42.3	21.9	11.0	
6"	A (FT.)	4.0	4.0	4.0	
	B (FT.)	4.0	4.0	4.0	3/4 IN.
	C (FT.)	4.0	3.0	1.0	
	CLAMP QS EA.)	7/8 IN. X 16 IN.			
	VOLUME REQ'D (CU.FT.)	94.1	48.9	24.5	
12"	A (FT.)	5.0	5.0	5.0	
	B (FT.)	4.75	2.4	1.0	7/8 IN.
	C (FT.)	4.0	4.0	3.0	
	CLAMP QS EA.)	1 IN. X 18 IN.			
	VOLUME REQ'D (CU.FT.)	209	104	54	
18"	A (FT.)	6.0	6.0	6.0	
	B (FT.)	4.5	3.6	2.25	1 IN.
	C (FT.)	8.0	5.0	4.0	
	CLAMP QS EA.)	1/8 IN. X 3 IN.			
	VOLUME REQ'D (CU.FT.)	374	191	96	
24"	A (FT.)	7.0	7.0	7.0	
	B (FT.)	7.0	4.0	3.0	1 1/8 IN.
	C (FT.)	8.0	7.0	5.0	
	CLAMP QS EA.)	1/8 IN. X 3 IN.			

VOLUME CALCULATED ON THE BASIS OF CONCRETE REACTING THRUST ON THE RESPECTIVE BEND UNDER AN INTERNAL PRESSURE OF 150 PSI AND THE WEIGHT OF CONCRETE IS 150 POUNDS PER CU. FT.

VERTICAL TIE-DOWN BLOCKING DETAIL

N.T.S. WD–1 23 REV. DEC. 2006



GUARDPOST DETAIL

N.T.S. WD–1 24 REV. DEC. 2006

WATER DETAILS

UPDATED DRAWING 07/12/2011

ROGERS WATER UTILITIES

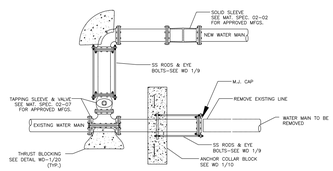
P.O. DRAWER 338
OFFICE - 601 SOUTH 2ND ROGERS, ARKANSAS 72757-0338

DRAWN BY:	DATE:	SHEET NO.
DDS	RE

RESERVED

WD-2 / 1A

SEE MATERIAL SPECIFICATIONS FOR APPROVED MANUFACTURERS



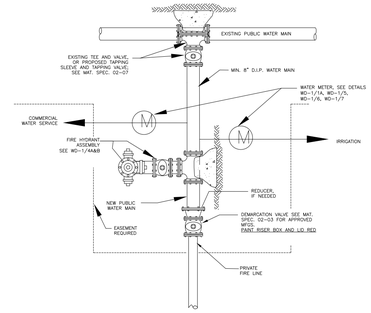
CUT AND CAP DETAIL #1

N.T.S.

WD-2 / 1

REV. DEC. 2006

SEE MATERIAL SPECIFICATIONS FOR APPROVED MANUFACTURERS



COMMERCIAL, IRRIGATION AND FIRE LINE CONNECTION DETAIL

N.T.S.

WD-2 / 2

REV. DEC. 2006

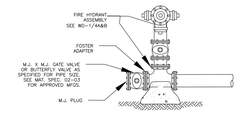
SEE MATERIAL SPECIFICATIONS FOR APPROVED MANUFACTURERS

RESERVED

WD-2 / 3

REV. MAR. 2009

SEE MATERIAL SPECIFICATIONS FOR APPROVED MANUFACTURERS



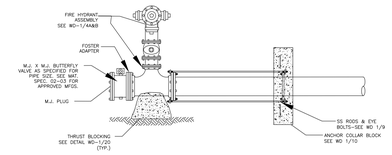
END-OF-LINE/PHASE LINE FIRE HYDRANT DETAIL 8" & 12" MAINS

N.T.S.

WD-2 / 4

REV. DEC. 2006

SEE MATERIAL SPECIFICATIONS FOR APPROVED MANUFACTURERS



END-OF-LINE/PHASE LINE FIRE HYDRANT DETAIL MAINS LARGER THAN 12"

N.T.S.

WD-2 / 5

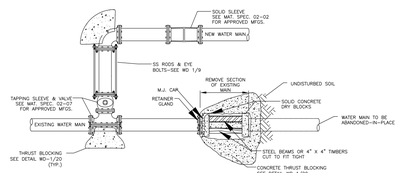
REV. DEC. 2006

SEE MATERIAL SPECIFICATIONS FOR APPROVED MANUFACTURERS

RESERVED

WD-2 / 6

SEE MATERIAL SPECIFICATIONS FOR APPROVED MANUFACTURERS



CUT AND CAP DETAIL #2 "HOT-BLOCK"

N.T.S.

WD-2 / 7

REV. DEC. 2006

RESERVED

WD-2 / 8

SEE MATERIAL SPECIFICATIONS FOR APPROVED MANUFACTURERS

RESERVED

WD-2 / 9

REV. NOV. 2006

RESERVED

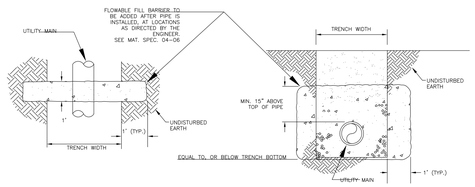
WD-2 / 10

SEE MATERIAL SPECIFICATIONS FOR APPROVED MANUFACTURERS

RESERVED

WD-2 / 11

SEE MATERIAL SPECIFICATIONS FOR APPROVED MANUFACTURERS

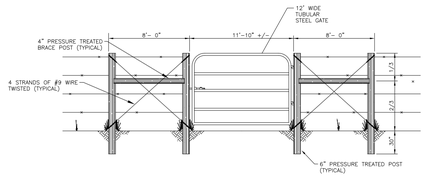


ANTI-SEEPAGE BARRIER COLUMN

N.T.S.

WD-2 / 12

REV. DEC. 2006



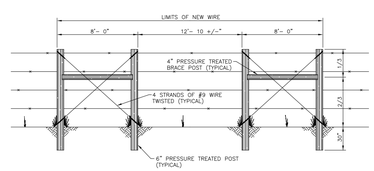
NOTES: 1. H-brace units shall be installed prior to cutting existing fence
2. Height of post to match existing posts.
3. New wire shall be the same type as existing fence.

FARM GATE INSTALLATION DETAIL

N.T.S.

WD-2 / 13

REV. AUG. 2007



NOTES: 1. H-brace units shall be installed prior to cutting existing fence
2. Height of post to match existing posts.
3. New wire shall be the same type as existing fence.

BARBED WIRE FENCE CROSSING REPAIR DETAIL

N.T.S.

WD-2 / 14

REV. AUG. 2007

SEE MATERIAL SPECIFICATIONS FOR APPROVED MANUFACTURERS

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WD-2 / 15

SEE MATERIAL SPECIFICATIONS FOR APPROVED MANUFACTURERS

RESERVED

WD-2 / 16

RESERVED

WD-2 / 17

SEE MATERIAL SPECIFICATIONS FOR APPROVED MANUFACTURERS

RESERVED

WD-2 / 18

METER SIZING AND MAIN CONNECTION DATA

METER SIZE	FLOW RANGE	CONNECTION TO MAIN		METER BOX APPROX. SIZE		SOURCE
		NEW MAIN	EXISTING MAIN	SIDEWALK	GREEN AREAS	
5/8" (SINGLE OR DOUBLE)	1-20 GPM	1" CORP. STOP	1" CORP. STOP		~22" DIA. BASE	SEE STANDARD SPEC. 02-10
1"	3-50 GPM	1" CORP. STOP	1" CORP. STOP		~18"x24"BASE	SEE STANDARD SPEC. 02-10
1 1/2"	4-120 GPM	SEE WD 1/5	2" TAPPING SADDLE AND VALVE	32" x 42" (PRECAST BOX)	2~24"x 37" METER BOXES	SEE STANDARD SPEC. 02-13
2"	4-160 GPM	SEE WD 1/5	2" TAPPING SADDLE AND VALVE	32" x 42" (PRECAST BOX)	2~24"x 37" METER BOXES	SEE STANDARD SPEC. 02-13
3"	5-350 GPM	SEE WD 1/5	2" TAPPING SADDLE AND VALVE	8' L. x 5.5' W. x 4' D.		PRECAST BY PILE CONCRETE, LOWELL , AR
4"	15-1000 GPM	MAIN x 4" TEE AND VALVE	MAIN x 4" TAPPING SADDLE AND VALVE	6'x10'		(CAST-IN-PLACE BOX) BY CONTRACTOR-SEE RWU FOR LID DETAIL
6"	30-2,000 GPM	MAIN x 6" TEE AND VALVE	MAIN x 6" TAPPING SADDLE AND VALVE	6'x10'		(CAST-IN-PLACE BOX) BY CONTRACTOR-SEE RWU FOR LID DETAIL
8"	35-3,500 GPM	MAIN x 8" TEE AND VALVE	MAIN x 8" TAPPING SADDLE AND VALVE	6'x10'		(CAST-IN-PLACE BOX) BY CONTRACTOR-SEE RWU FOR LID DETAIL

NOTE: CONECTIONS TO NEW MAINS ARE CONSTRUCTED BY THE CONTRACTOR. CONNECTIONS TO EXISTING MAINS ARE CONSTRUCTED BY RWU ON A COST PLUS BASIS

WD-2 / 19

RESERVED

WD-2 / 20

SEE MATERIAL SPECIFICATIONS FOR APPROVED MANUFACTURERS

RESERVED

WD-2 / 21

SEE MATERIAL SPECIFICATIONS FOR APPROVED MANUFACTURERS

RESERVED

WD-2 / 22

RESERVED

WD-2 / 23

WATER DETAILS

UPDATED DRAWING 07/12/2011

RWU ROGERS WATER UTILITIES

P.O. DRAWER 338
OFFICE - 601 SOUTH 2ND ROGERS, ARKANSAS
72757-0338

DRAWN BY:	DATE:	SHEET NO.
DDS	REV. JAN./08	WD-2
CHECKED BY: EB	PROJECT NUMBER: STANDARD WATER DETAILS	

WD-2-2CBLDWG