

SEWER REHABILITATION AND CAPACITY PROJECTS FOR PINNACLE COUNTRY CLUB SEWER IMPROVEMENTS RJN PROJECT NO. 30-3616-00 FOR ROGERS WATER UTILITIES ROGERS, ARKANSAS

UTILITY CONTACT INFORMATION

WATER/SEWER
BRIAN SARTAIN (479) 936-5426

ELECTRIC
CARROLL ELECTRIC
DEREK THURMAN (479) 273-2421 EXT. 2640

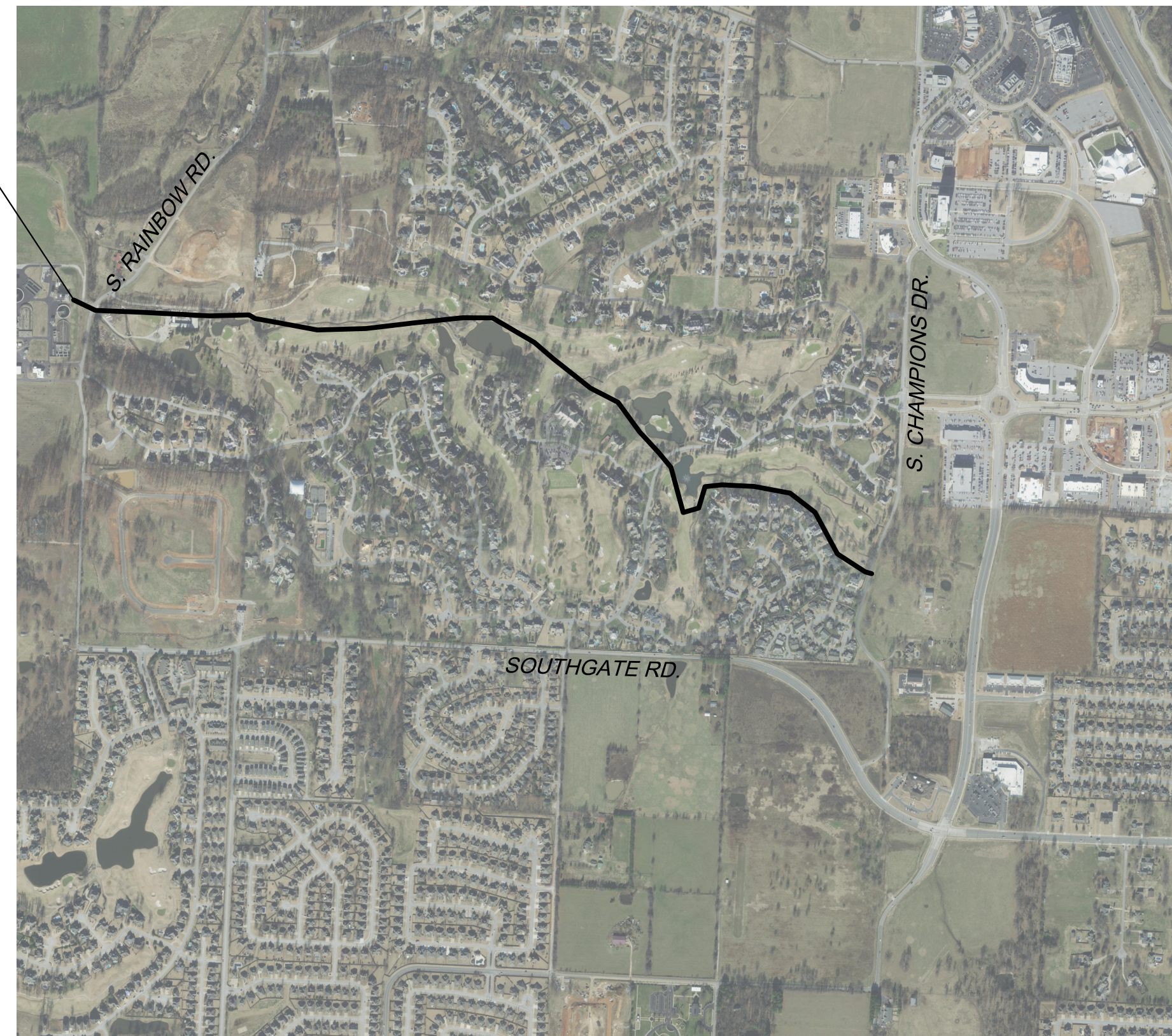
CATV
COX COMMUNICAQTIONS
MICHAEL MOORE (479) 871-3473

GAS
BLACK HILLS ENERGY
BRANDON STUBBS (479) 255-3726

TELECOM
AT&T
BRIAN WILLIAMS (479) 442-3176



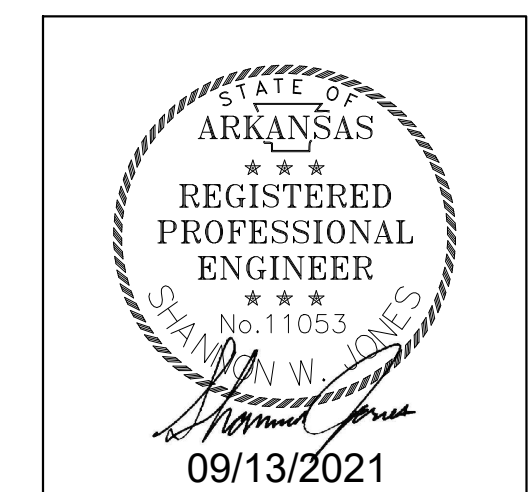
PROJECT
LOCATION



N.T.S.

SHEET INDEX

| SHEET NO. | DESCRIPTION |
|-----------|---|
| 1 | COVER SHEET |
| 2 | GENERAL NOTES |
| 3 | OVERALL UTILITY PLAN |
| 4 - 23 | LINE REPLACEMENTS PLAN AND PROFILE SHEETS |
| SD-1 | RWU STANDARD DETAILS |
| D1 | MISCELLANEOUS DETAILS |

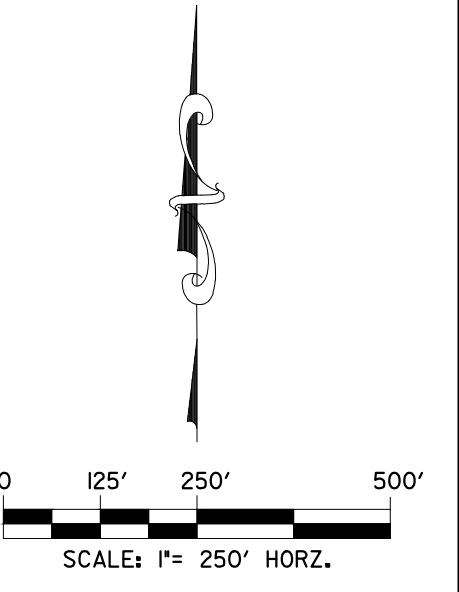
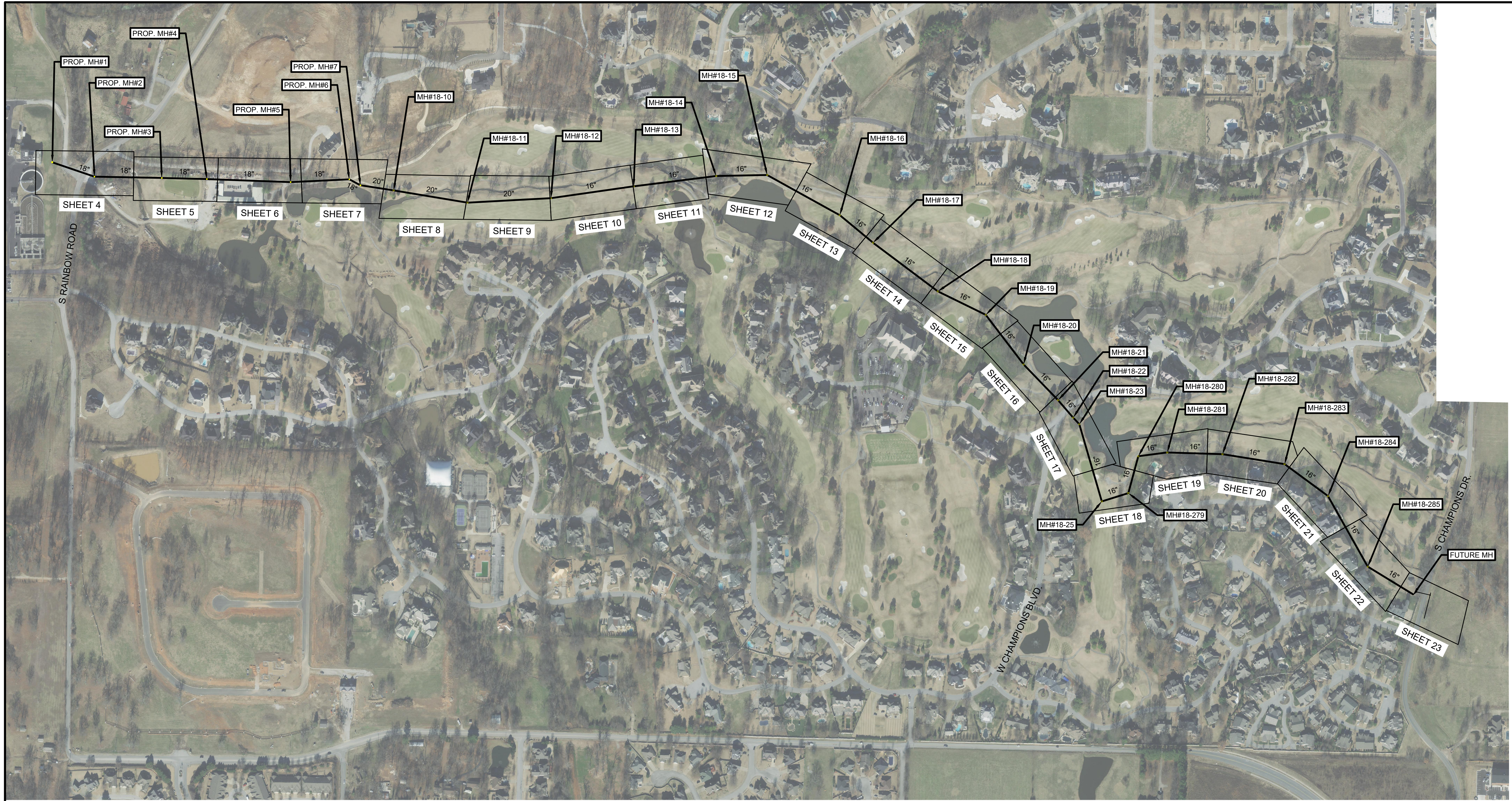


PREPARED BY

rjngroup

CONSULTING ENGINEERS
4170 WEST MLK BLVD., STE. 907
FAYETTEVILLE, AR 72704
(479) 319-2088

September 21



WARNING!!!
 EXISTING UNDERGROUND TELEPHONE,
 OVERHEAD, UNDERGROUND ELECTRIC AND
 GAS UTILITIES IN AREA, CONTACT ONE CALL
 48 HOURS PRIOR TO CONSTRUCTION
 ARKANSAS ONE CALL 1-800-482-8998

STATE OF ARKANSAS
 REGISTERED PROFESSIONAL ENGINEER
 No. 11053
Shannon W. Jones
 09/13/2021

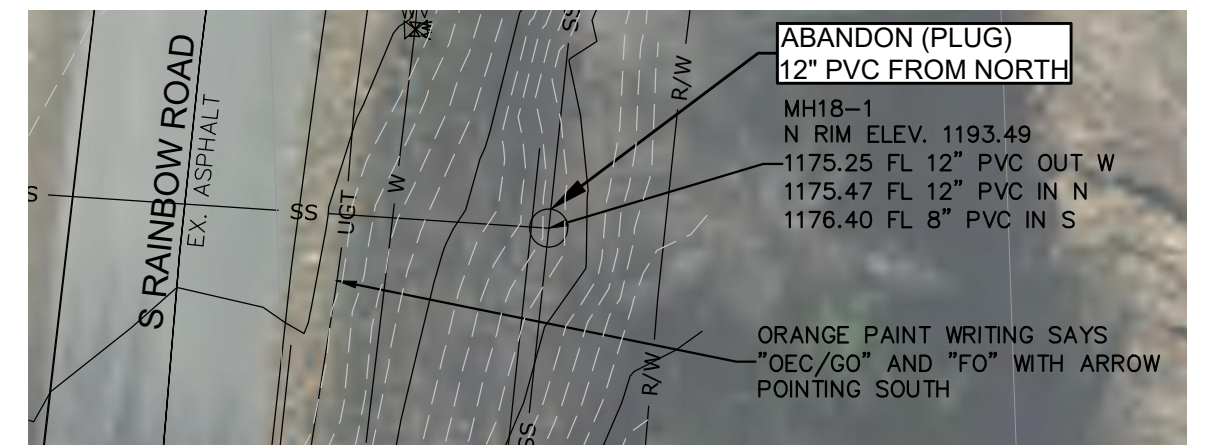
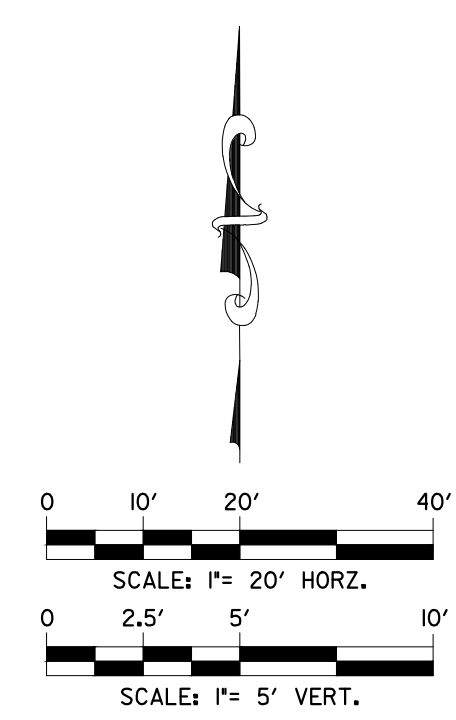
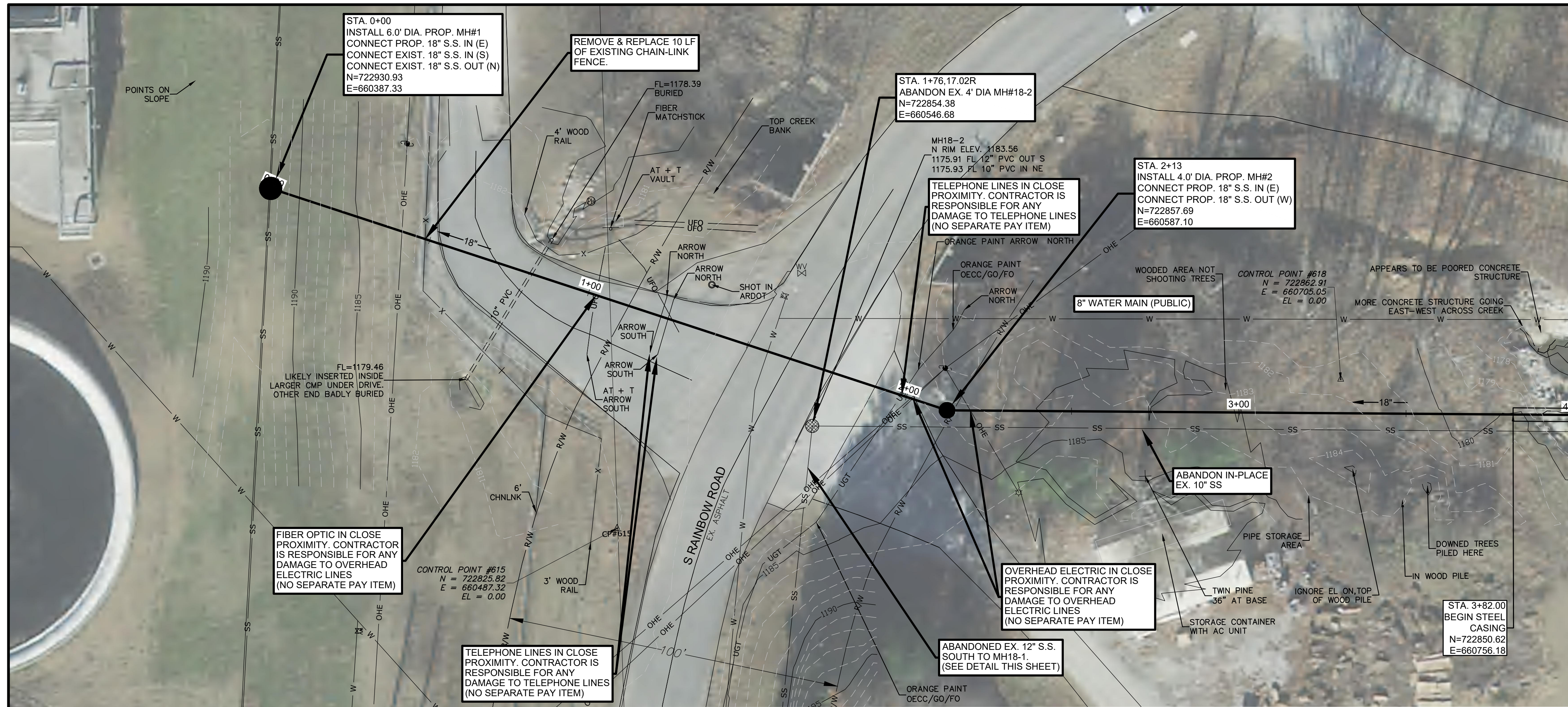
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OVERALL UTILITY PLAN
PINNACLE COUNTRY CLUB
SEWER IMPROVEMENTS
 ROGERS WATER UTILITIES
CITY OF ROGERS, ARKANSAS

rjngroup R/JN GROUP, INC.
 4170 WEST MLK BLVD., STE. 907
 FAYETTEVILLE, AR 72704

| DESIGN | DRAWN | QA/QC | DATE | SCALE | PROJECT NO. | SHEET |
|--------|-------|-------|----------------|-----------------|-------------|---------|
| SWJ | PRR | MDH | September 2021 | 1"=20' 1"=5' | 30-3616-00 | 3 OF 25 |

C:\ARKANSAS\PROJECTS\30160-00-PINNACLE GOLF COURSE SAN SWR REPAIRS_CADD\30160-00-SHEETS\30160-00-PROP BASE.DWG
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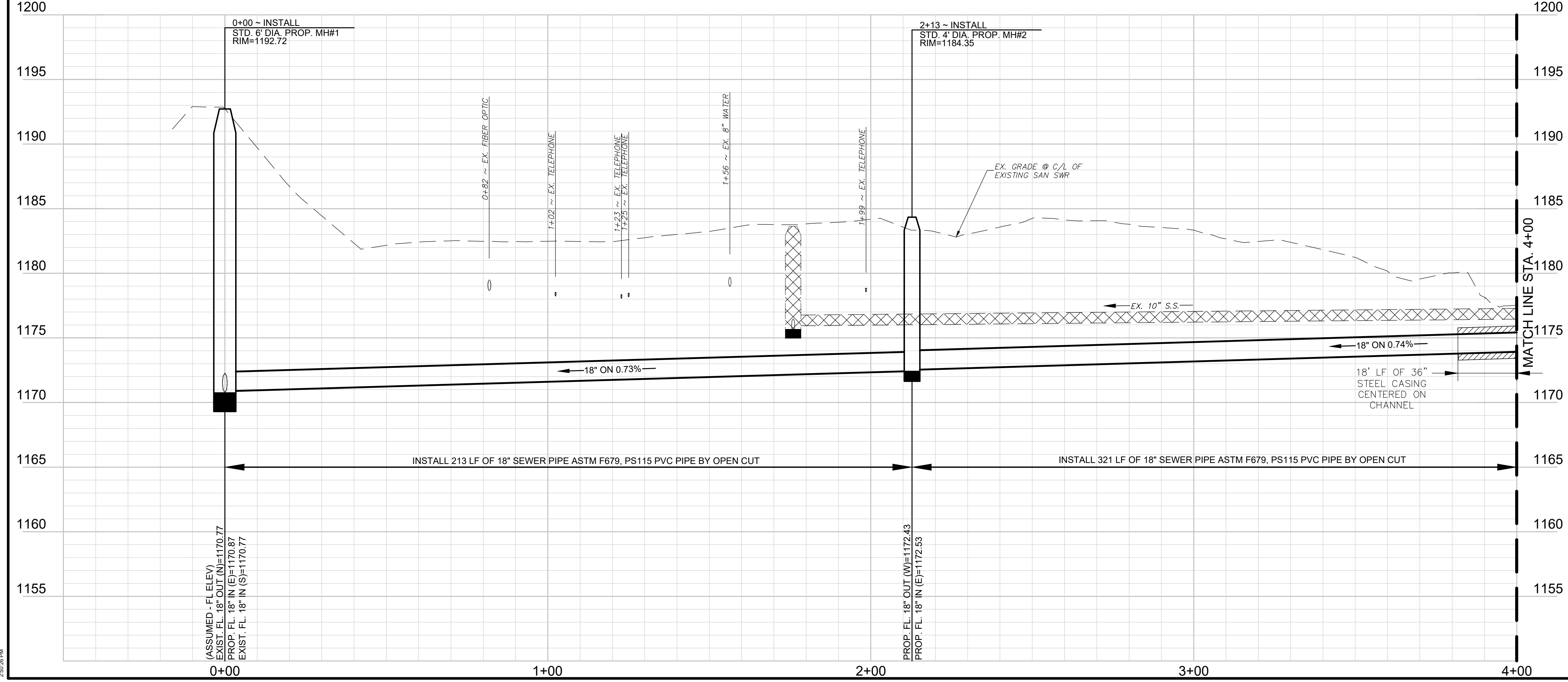


MH18-1 DETAIL

NOTES:

1. ALL DISTURBED PAVEMENT, CURB AND SOD AREAS DURING LINE REPLACEMENTS TO BE REPLACED TO EQUAL OR BETTER CONDITION.
2. FULL RESTORATION WITHIN 10 DAYS OF COMPLETING SEWER WORK.
3. CONTRACTOR TO VERIFY ALL ACTIVE SERVICE CONNECTIONS AND ONLY RECONNECT SERVICES THAT ARE ACTIVE.
4. CONTRACTOR SHALL BRACE ALL EXISTING POWER POLES AND USE EXTREME CAUTION WORKING NEAR POWER POLES. CONTRACTOR SHALL COORDINATE WITH CITY AND POWER COMPANY TO AVOID DAMAGE. (NO SEPARATE PAY ITEM).
5. CONTRACTOR SHALL USE COMPOSITE RING & COVER ON ALL MANHOLES.

WARNING!!!
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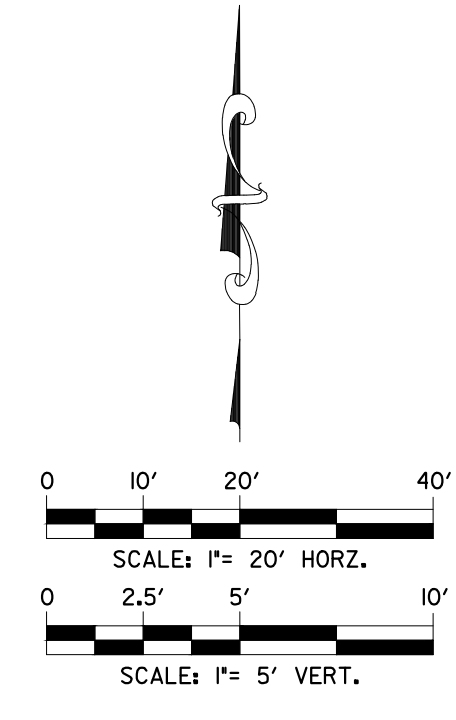
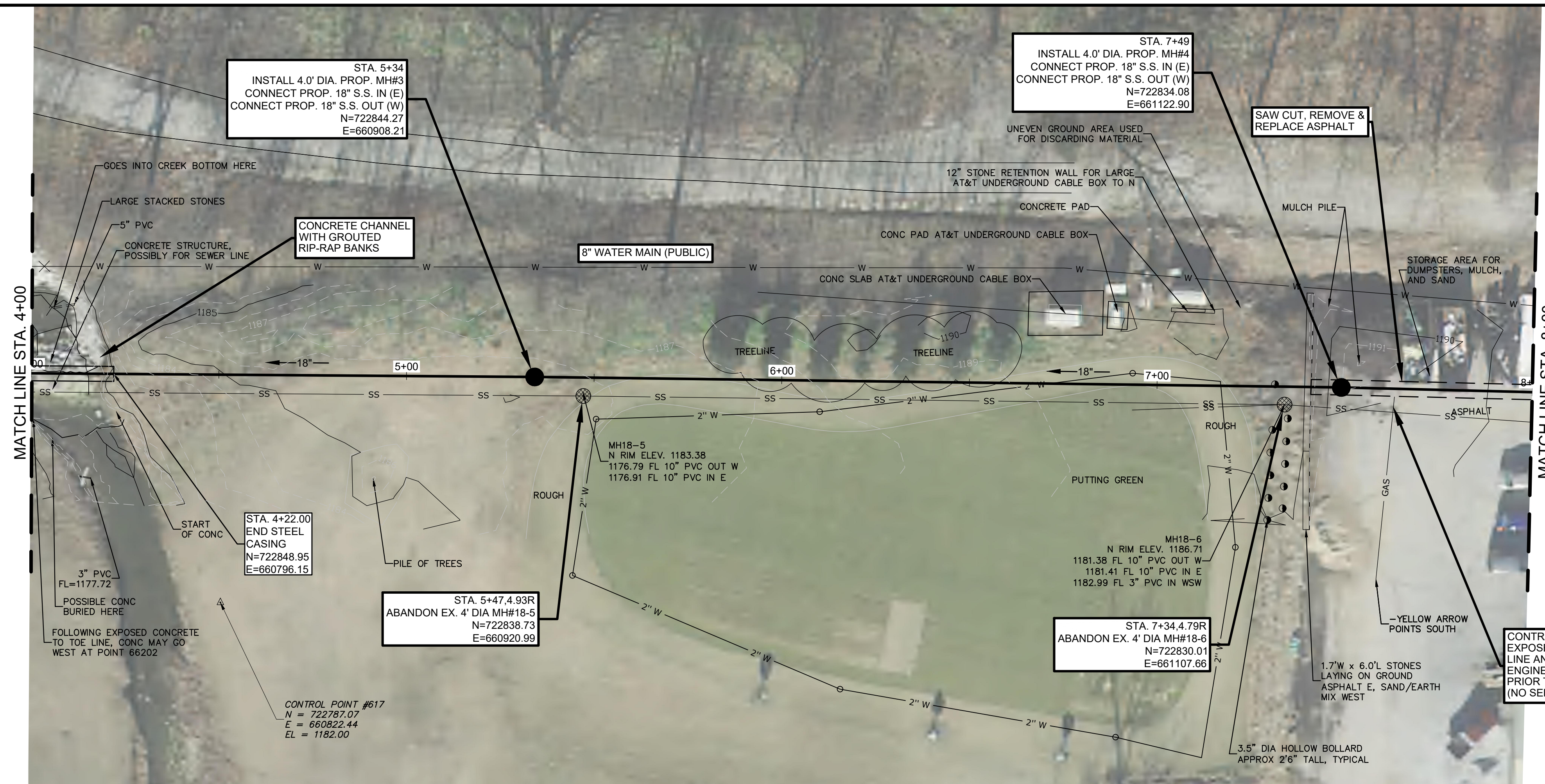
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STA 0+00 TO STA 4+00
PINNACLE COUNTRY CLUB
SEWER IMPROVEMENTS
ROGERS WATER UTILITIES
CITY OF ROGERS, ARKANSAS

rjngroup R/JN GROUP, INC.
 4170 WEST MLK BLVD., STE. 907
 FAYETTEVILLE, AR 72704

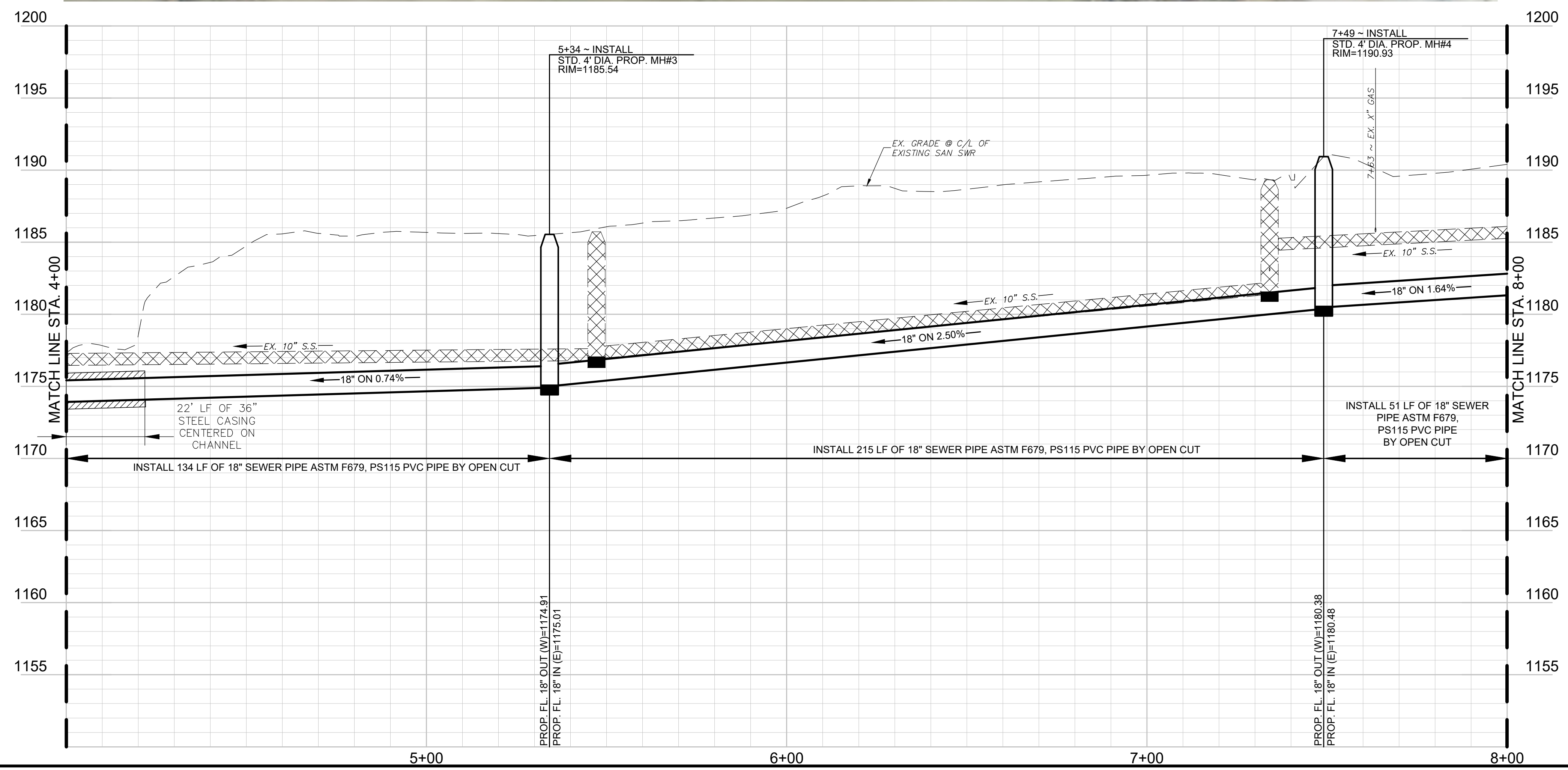
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| SWJ | PRR | MDH | September 2021 | 1"=20'H 1"=5'V | 30-3616-00 | 4 OF 25 |

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 13/09/2021 2:28:28 PM



NOTES:

1. THE TERM "PIPE BURSTING" THAT IS USED THROUGHOUT THE CONSTRUCTION PLANS IS INTENDED TO INCLUDE OTHER SIMILAR TRENCHLESS PIPE REPLACEMENT TECHNOLOGIES. SEE SPECIAL PROVISIONS FOR MORE DETAILS.
2. ALL DISTURBED PAVEMENT, CURB AND SOD AREAS DURING LINE REPLACEMENTS TO BE REPLACED TO EQUAL OR BETTER CONDITION.
3. FULL RESTORATION WITHIN 10 DAYS OF COMPLETING SEWER WORK.
4. CONTRACTOR TO VERIFY ALL ACTIVE SERVICE CONNECTIONS AND ONLY RECONNECT SERVICES THAT ARE ACTIVE.
5. IT IS THE CONTRACTORS RESPONSIBILITY THAT ALL PIPE BURSTED SEGMENTS MAINTAIN EXISTING LINE ALIGNMENT. CONTRACTOR SHALL CORRECT ANY OBSERVED ELEVATION/GRADE PROBLEM CAUSED BY THEIR PIPE BURSTING OPERATION AT NO ADDITIONAL COST.
6. CONTRACTOR IS RESPONSIBLE FOR ANY SURFACE (PAVED & UNPAVED) REPAIRS WHERE SWELLING OCCURS FROM PIPE BURSTING OPERATIONS. NO SEPARATE PAY ALLOWED WHERE THIS OCCURS. CONTRACTOR IS ALSO RESPONSIBLE FOR ANY DAMAGE TO ADJACENT UTILITIES EXISTING UNDERGROUND WHETHER CROSSING OR PARALLEL TO THE LINE.
7. CONTRACTOR SHALL BRACE ALL EXISTING POWER POLES AND USE EXTREME CAUTION WORKING NEAR POWER POLES. CONTRACTOR SHALL COORDINATE WITH CITY AND POWER COMPANY TO AVOID DAMAGE. (NO SEPARATE PAY ITEM).
8. CONTRACTOR SHALL USE COMPOSITE RING & COVER ON ALL MANHOLES.



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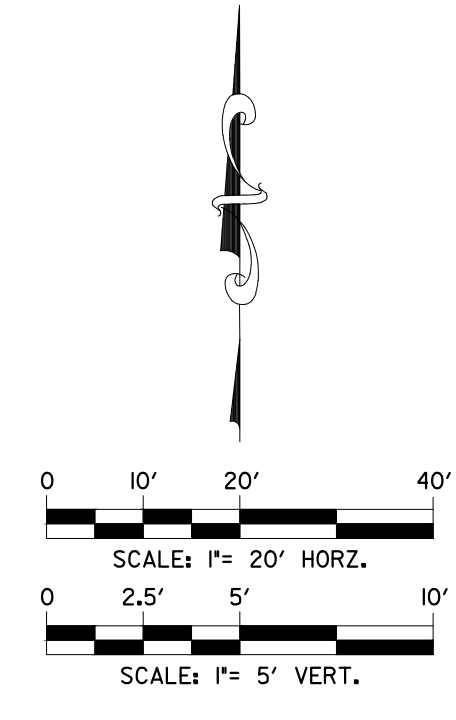
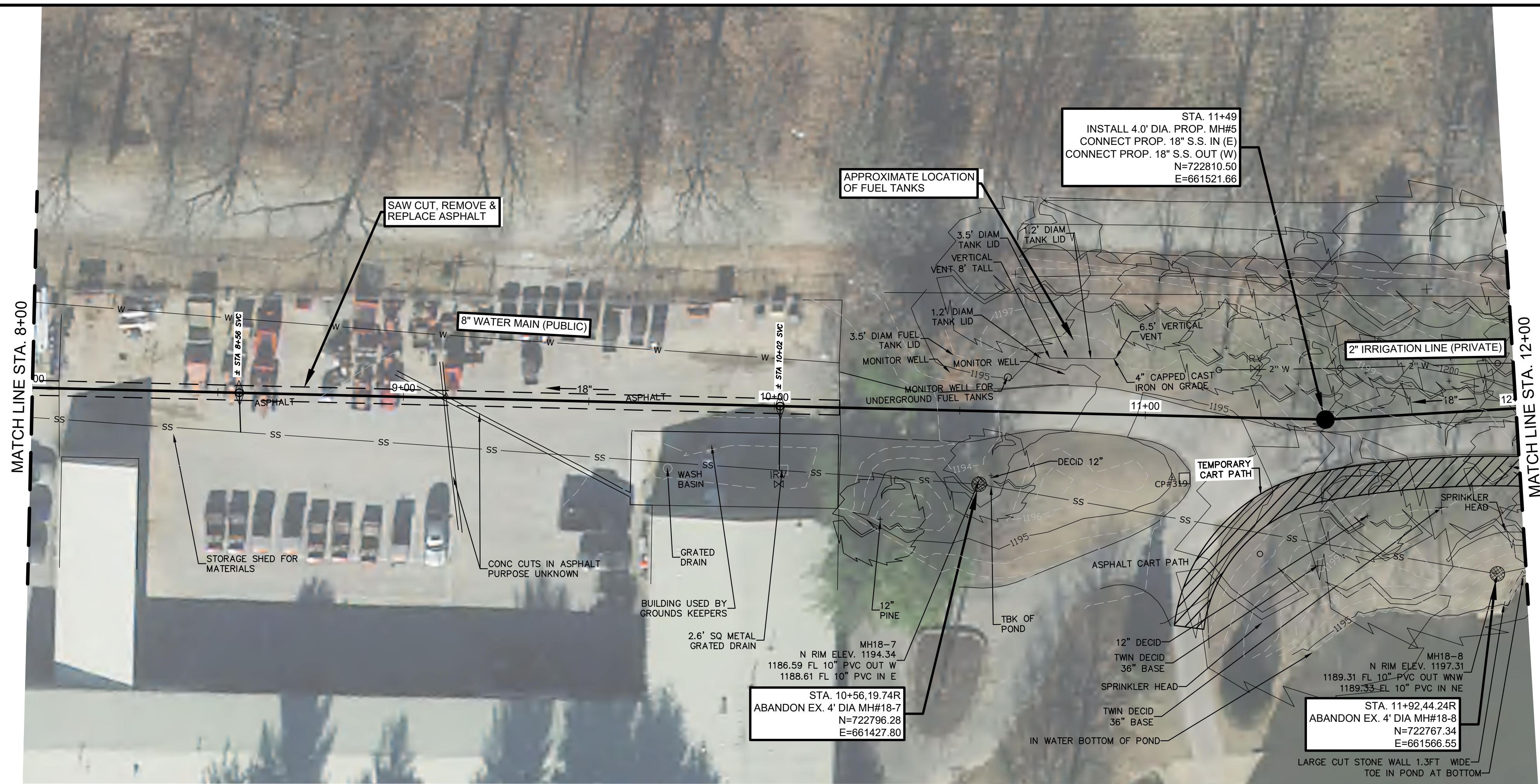
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STA 4+00 TO STA 8+00
PINNACLE COUNTRY CLUB
SEWER IMPROVEMENTS
ROGERS WATER UTILITIES
CITY OF ROGERS, ARKANSAS

rjngroup
R/JN GROUP, INC.
4170 WEST MLK BLVD., STE. 907
FAYETTEVILLE, AR 72704

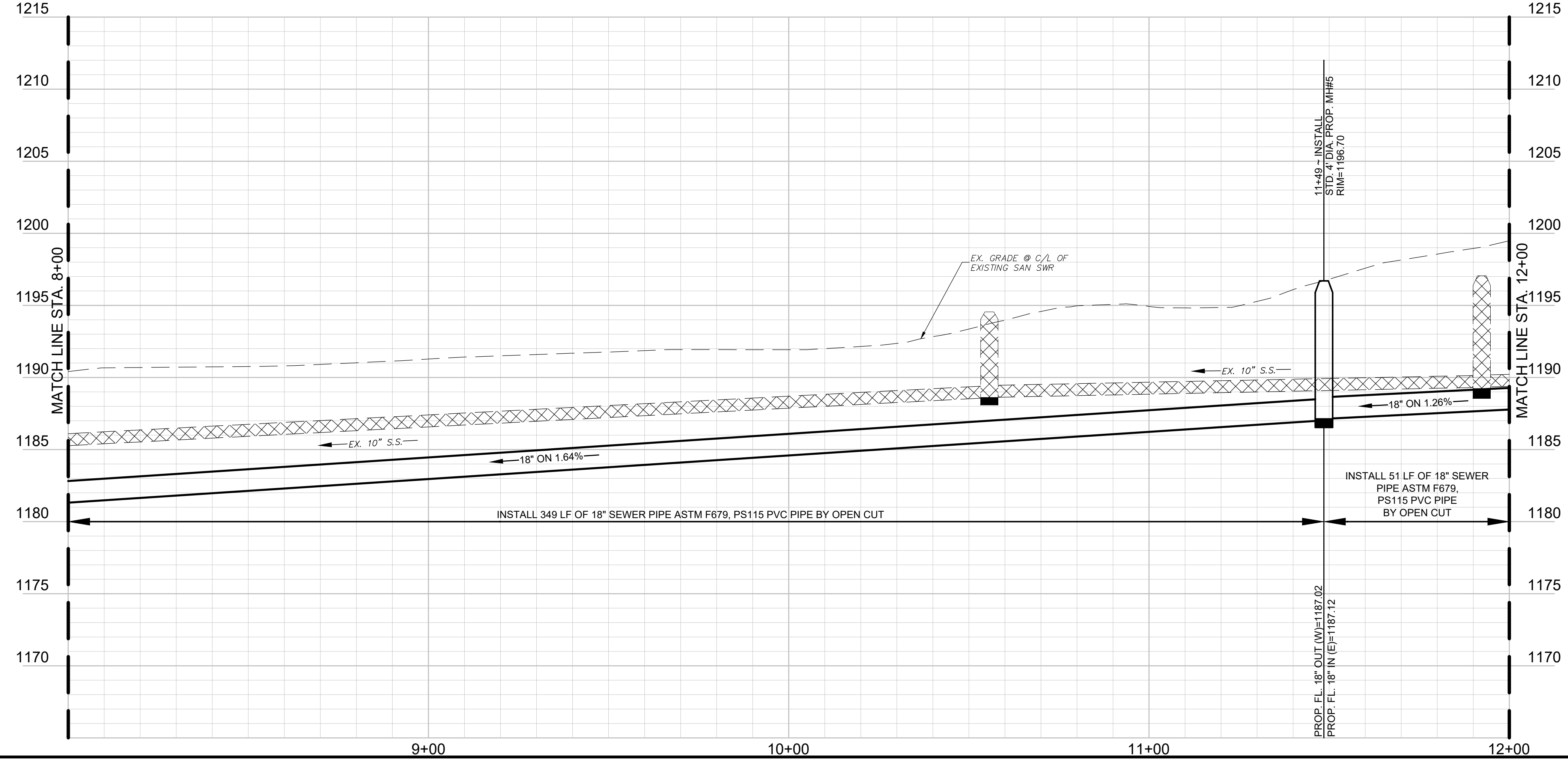
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| SWJ | PRR | MDH | September 2021 | 1"=20'H 1"=5'V | 30-3616-00 | 5 OF 25 |

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- NOTES:**
- ALL DISTURBED PAVEMENT, CURB AND SOD AREAS DURING LINE REPLACEMENTS TO BE REPLACED TO EQUAL OR BETTER CONDITION.
 - FULL RESTORATION WITHIN 10 DAYS OF COMPLETING SEWER WORK.
 - CONTRACTOR TO VERIFY ALL ACTIVE SERVICE CONNECTIONS AND ONLY RECONNECT SERVICES THAT ARE ACTIVE.
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 - CONTRACTOR SHALL USE COMPOSITE RING & COVER ON ALL MANHOLES.
 - CONTRACTOR SHALL LOCATE AND VERIFY ALL FUEL LINES PRIOR TO TRENCHING.

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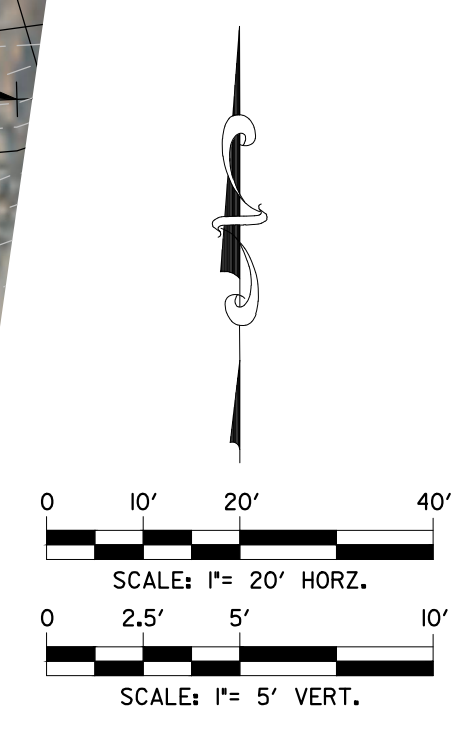
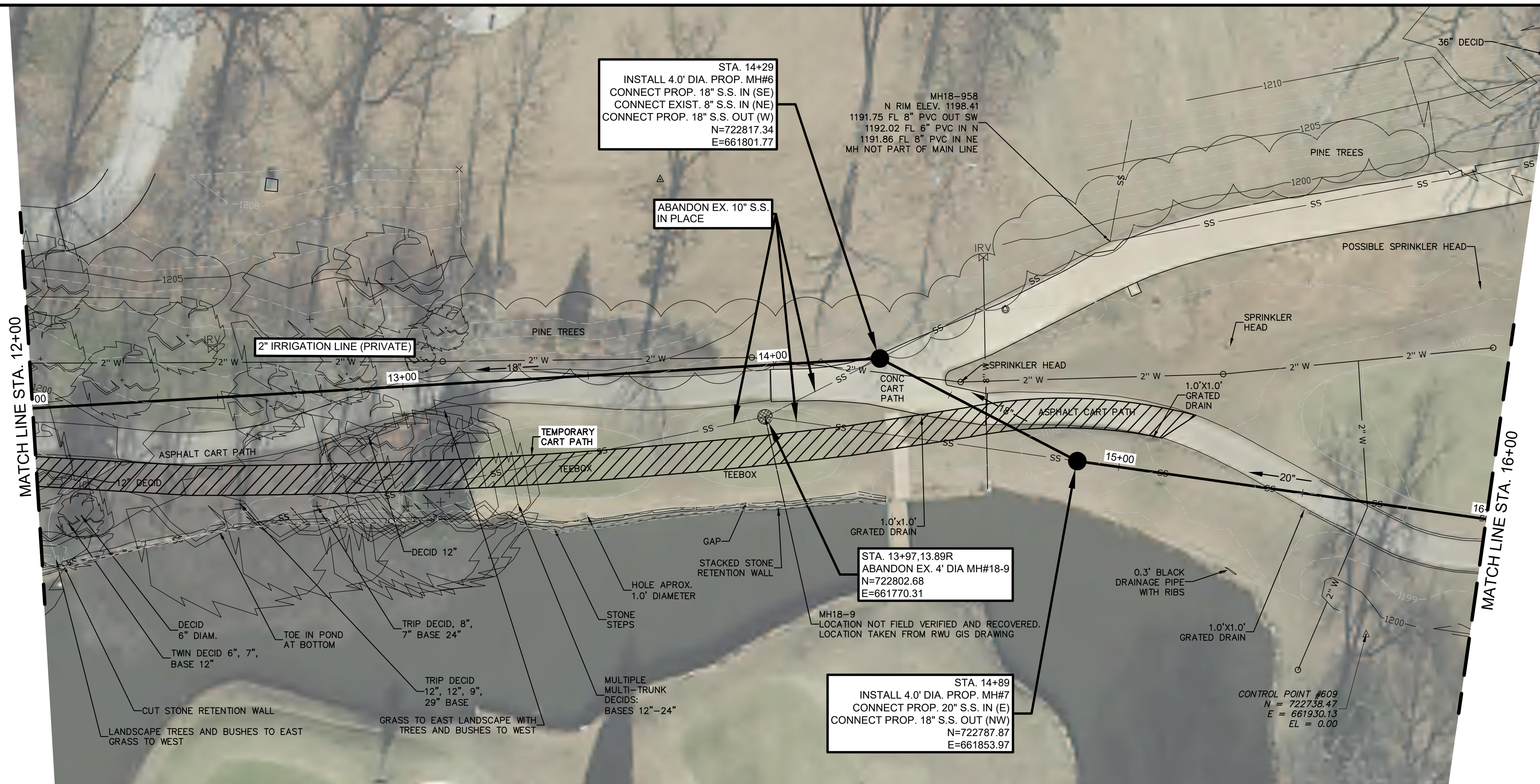
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STA 8+00 TO STA 12+00
PINNACLE COUNTRY CLUB
SEWER IMPROVEMENTS
ROGERS WATER UTILITIES
CITY OF ROGERS, ARKANSAS

rjngroup
 R/JN GROUP, INC.
 4170 WEST MLK BLVD., STE. 907
 FAYETTEVILLE, AR 72704

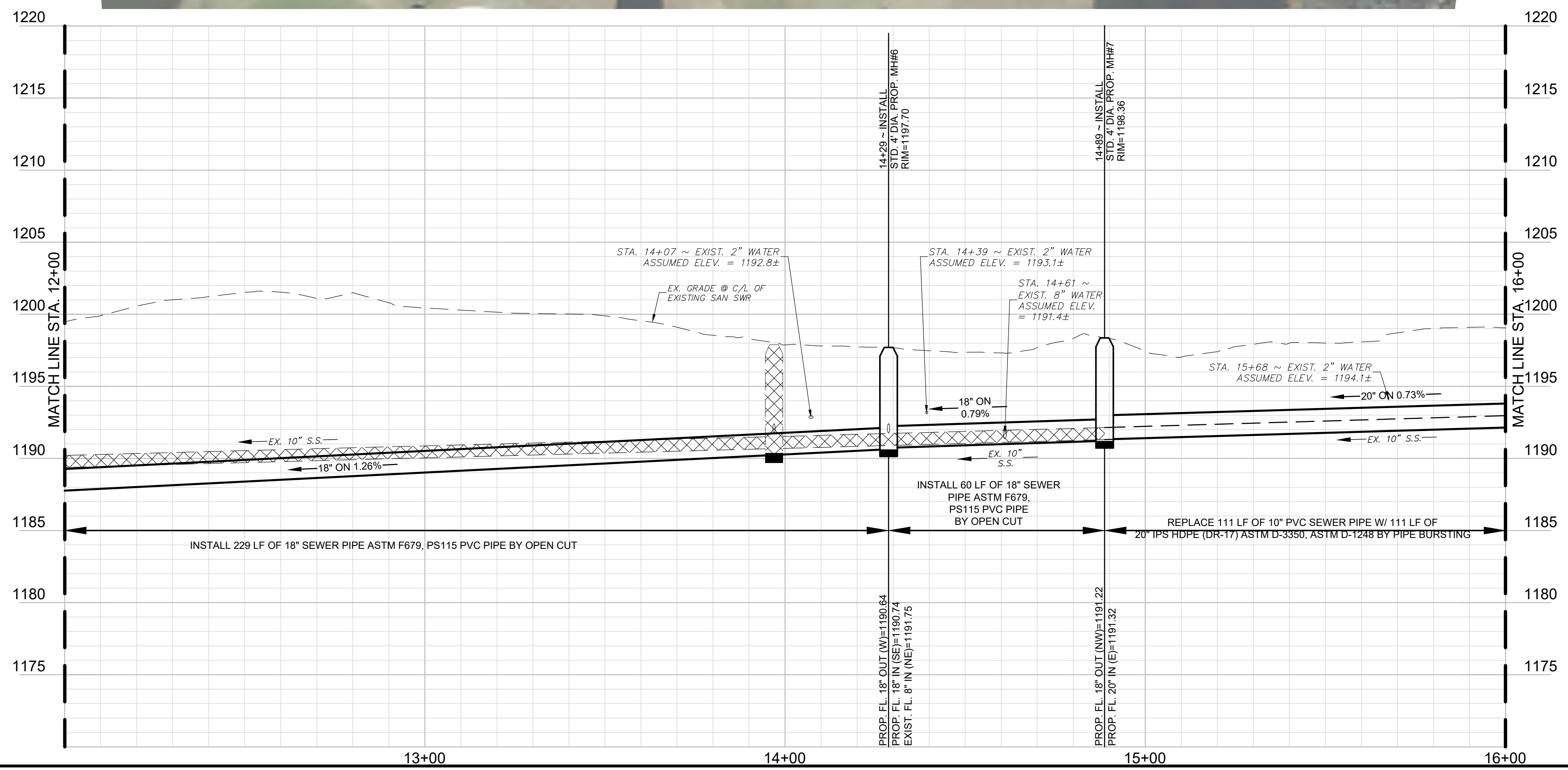
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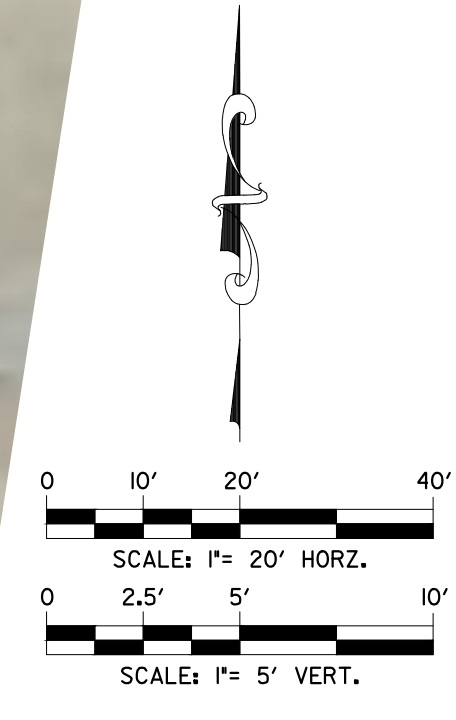
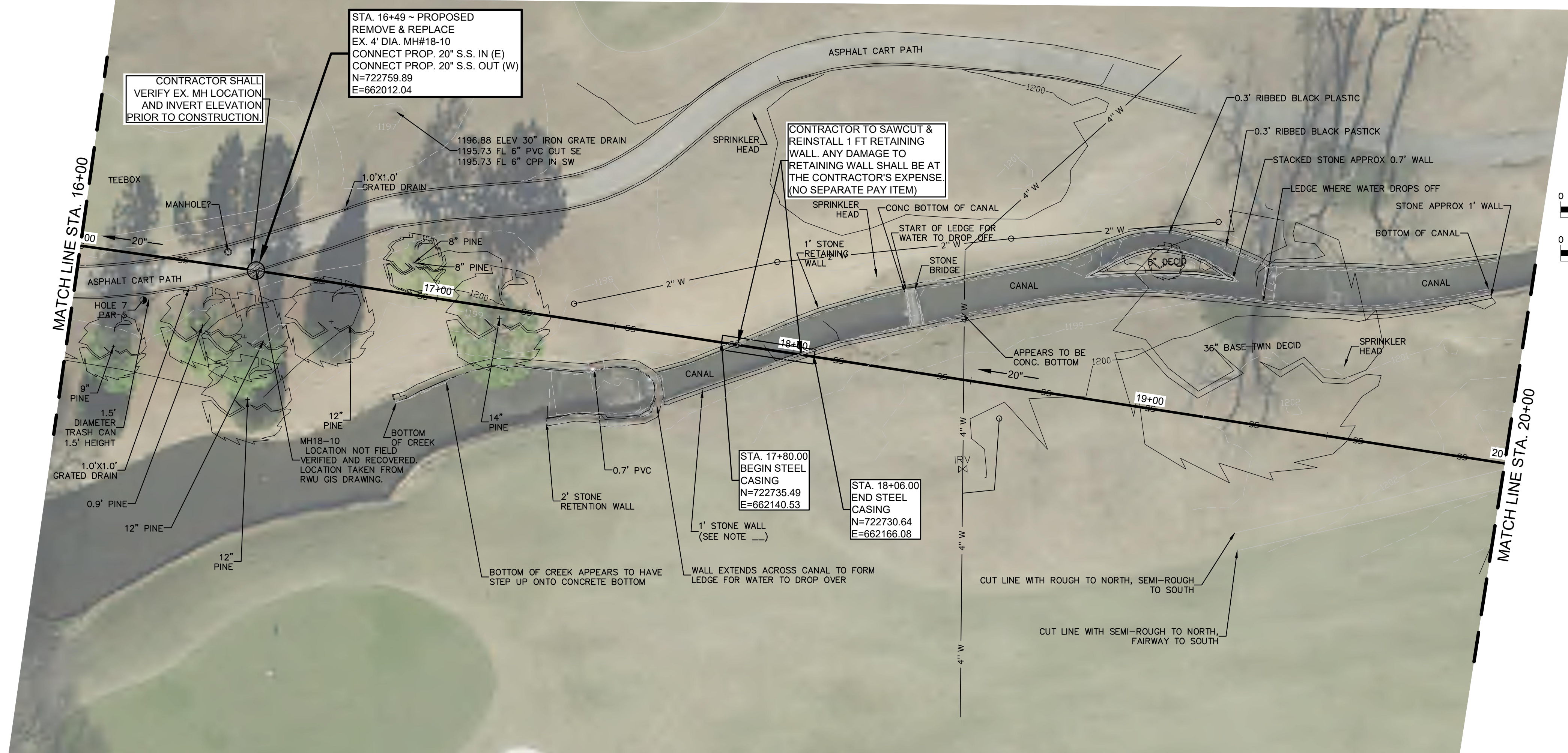
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STA 12+00 TO STA 16+00
PINNACLE COUNTRY CLUB
SEWER IMPROVEMENTS
ROGERS WATER UTILITIES
CITY OF ROGERS, ARKANSAS

rjngroup
 R/JN GROUP, INC.
 4170 WEST MLK BLVD., STE. 907
 FAYETTEVILLE, AR 72704

| DESIGN | DRAWN | QA/QC | DATE | SCALE | PROJECT NO. | SHEET |
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| SWJ | PRR | MDH | September 2021 | 1"=20'H 1"=5'V | 30-3616-00 | 7 OF 25 |

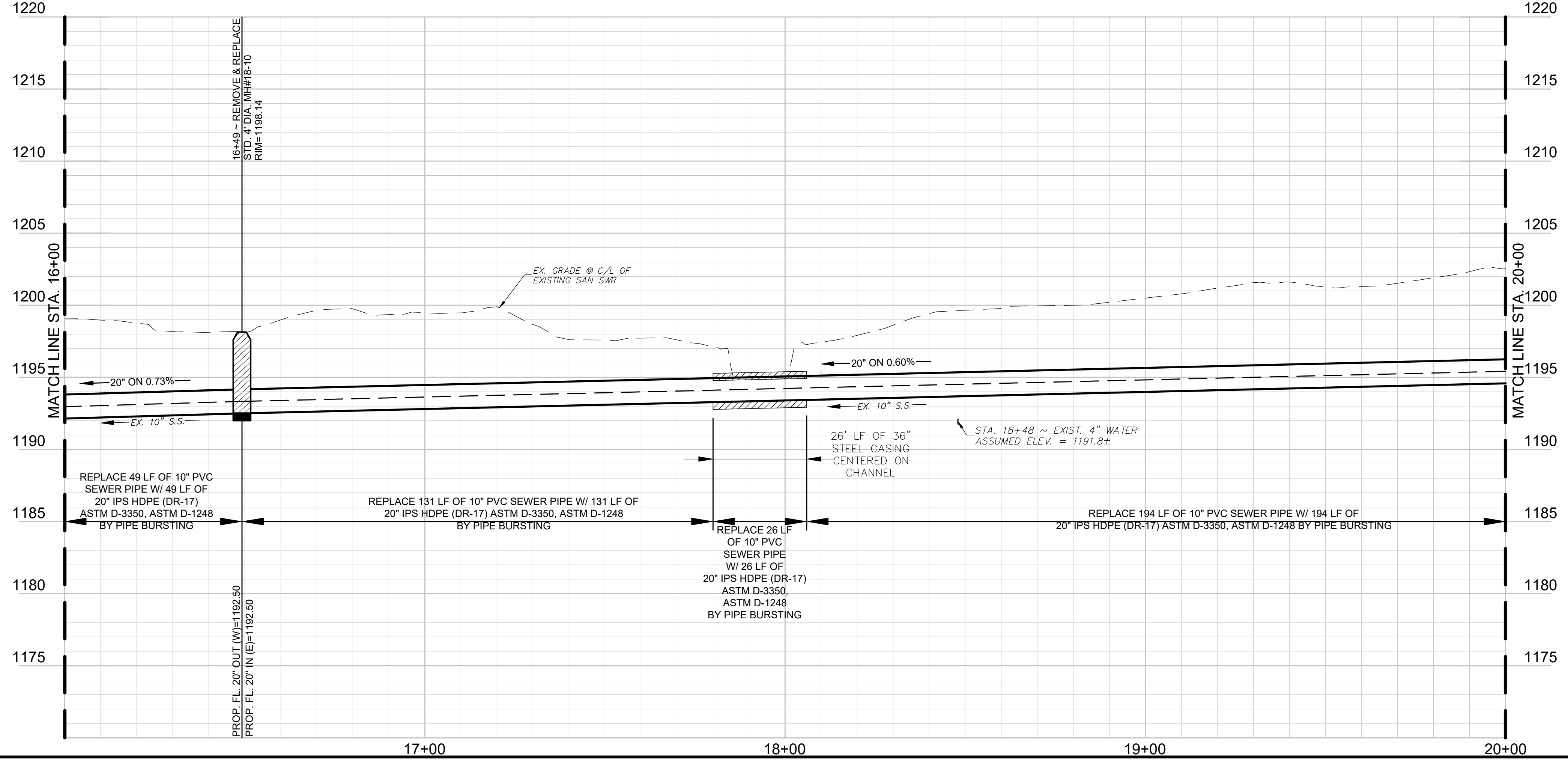
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9. CONTRACTOR SHALL USE COMPOSITE RING & COVER ON ALL MANHOLES.
10. INSTALL STEEL ENCASEMENT PRIOR TO PIPE BURSTING.

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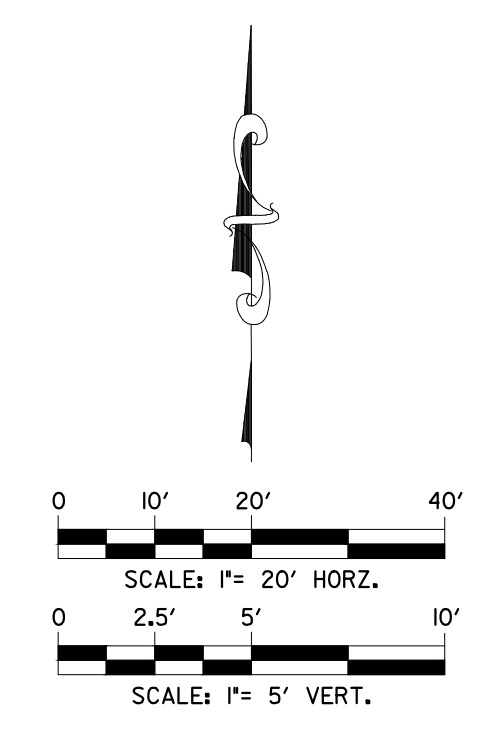
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STA 16+00 TO STA 20+00
PINNACLE COUNTRY CLUB
SEWER IMPROVEMENTS
ROGERS WATER UTILITIES
CITY OF ROGERS, ARKANSAS

rjngroup R/JN GROUP, INC.
 4170 WEST MLK BLVD., STE. 907
 FAYETTEVILLE, AR 72704

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| SWJ | PRR | MDH | September 2021 | 1"=20'H 1"=5'V | 30-3616-00 | 8 OF 25 |

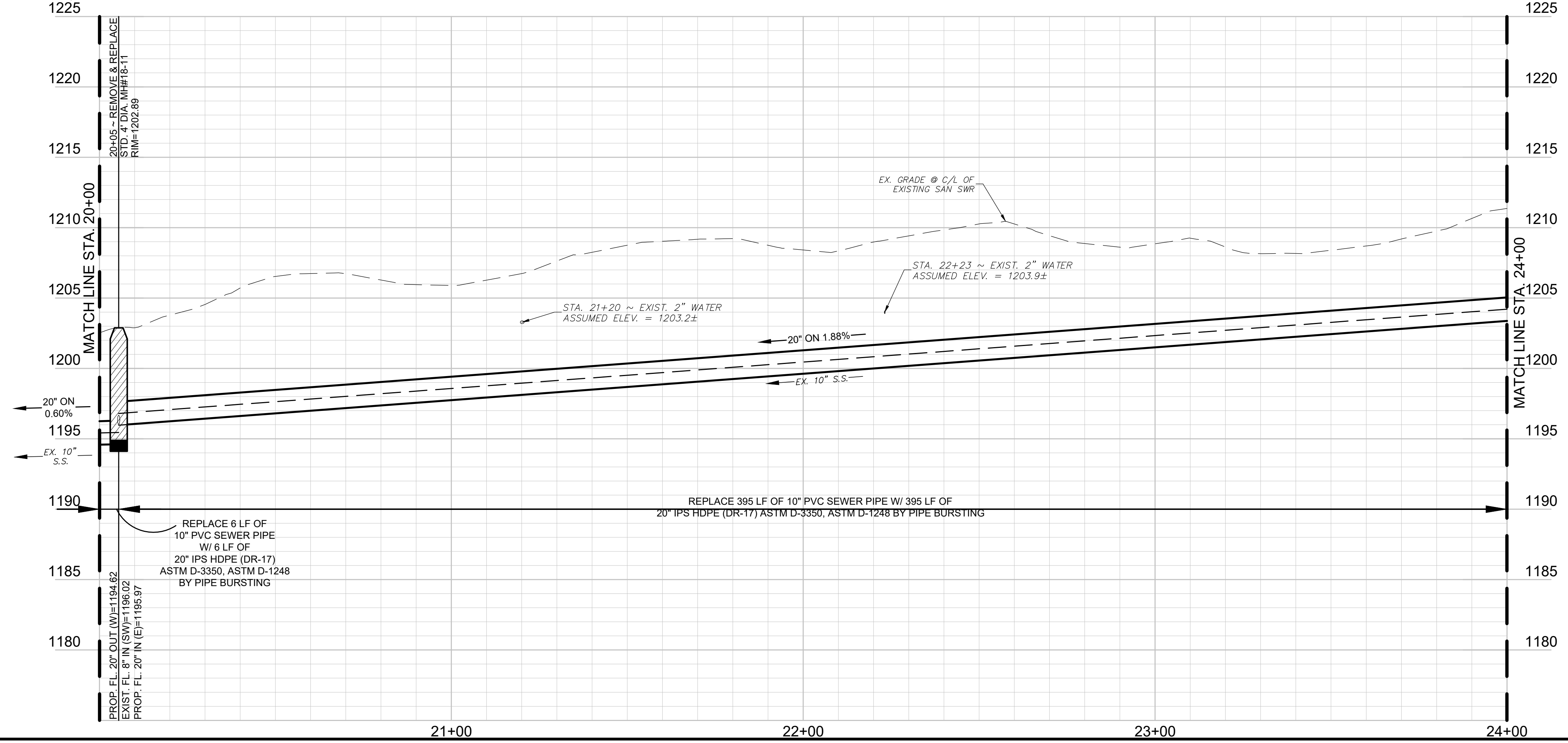
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 13/09/2021 2:51:04 PM



STA. 20+05 ~ PROPOSED
 REMOVE & REPLACE
 EX. 4" DIA. MH#18-11
 CONNECT EXIST. 8" S.S. IN (SW)
 CONNECT PROP. 20" S.S. IN (E)
 CONNECT PROP. 20" S.S. OUT (W)
 N=722693.42
 E=662362.05

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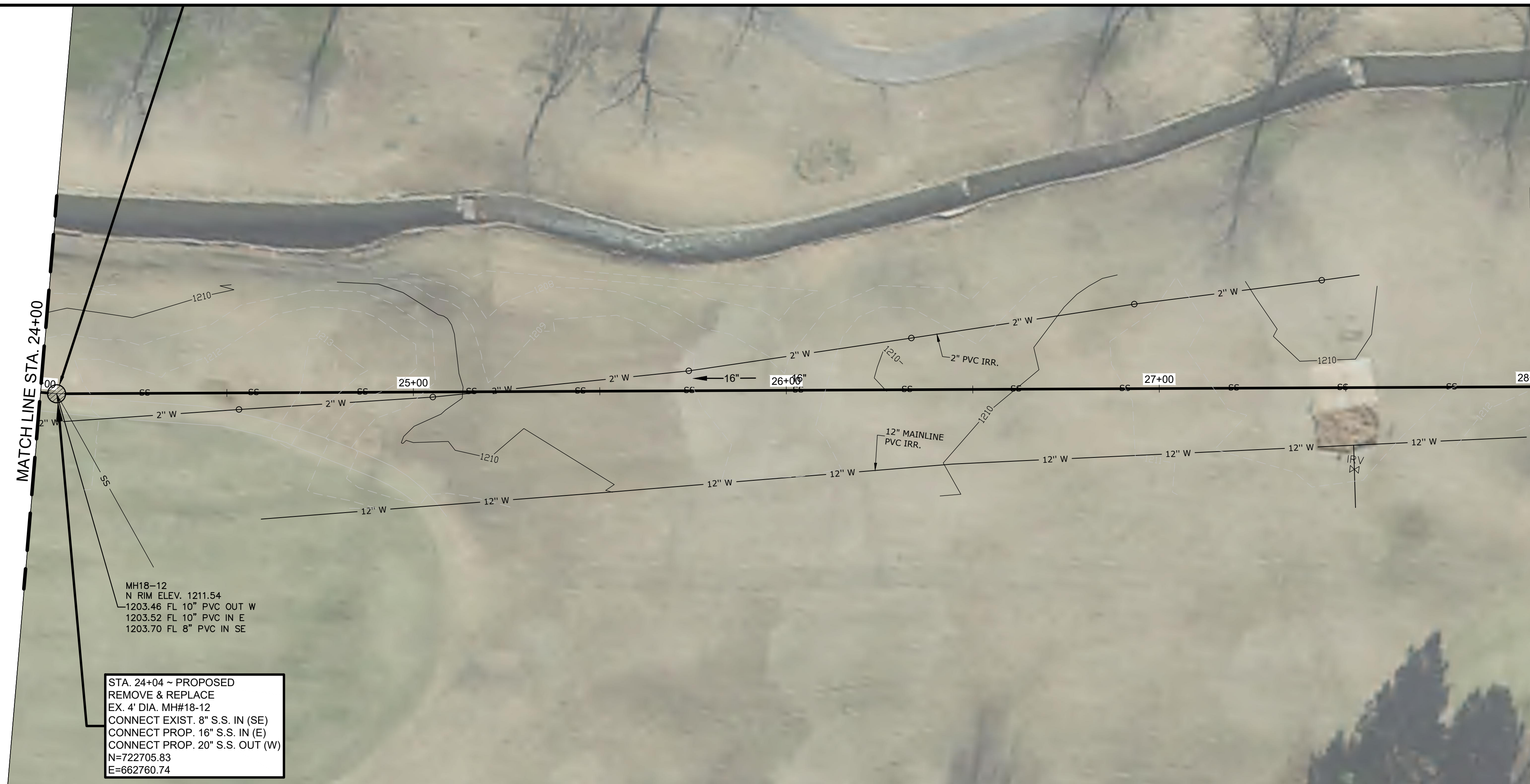


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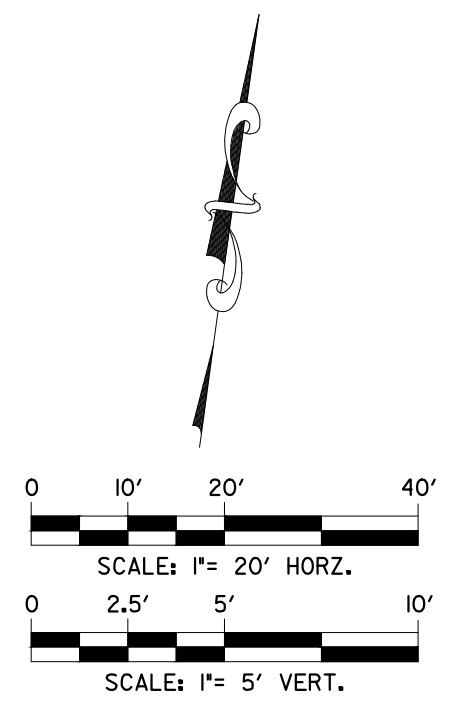
STA 20+00 TO STA 24+00
PINNACLE COUNTRY CLUB
SEWER IMPROVEMENTS
ROGERS WATER UTILITIES
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rjngroup 4170 WEST MLK BLVD., STE. 907
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 13/09/2021 1:00:02 PM 2/14/21



STA. 24+04 ~ PROPOSED
 REMOVE & REPLACE
 EX. 4" DIA. MH#18-12
 CONNECT EXIST. 8" S.S. IN (SE)
 CONNECT PROP. 16" S.S. IN (E)
 CONNECT PROP. 20" S.S. OUT (W)
 N=722705.83
 E=662760.74



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REPLACE 4 LF OF
 10" PVC SEWER PIPE
 W/ 4 LF OF 20" IPS HDPE (DR-17)
 ASTM D-3350, ASTM D-1248
 BY PIPE BURSTING

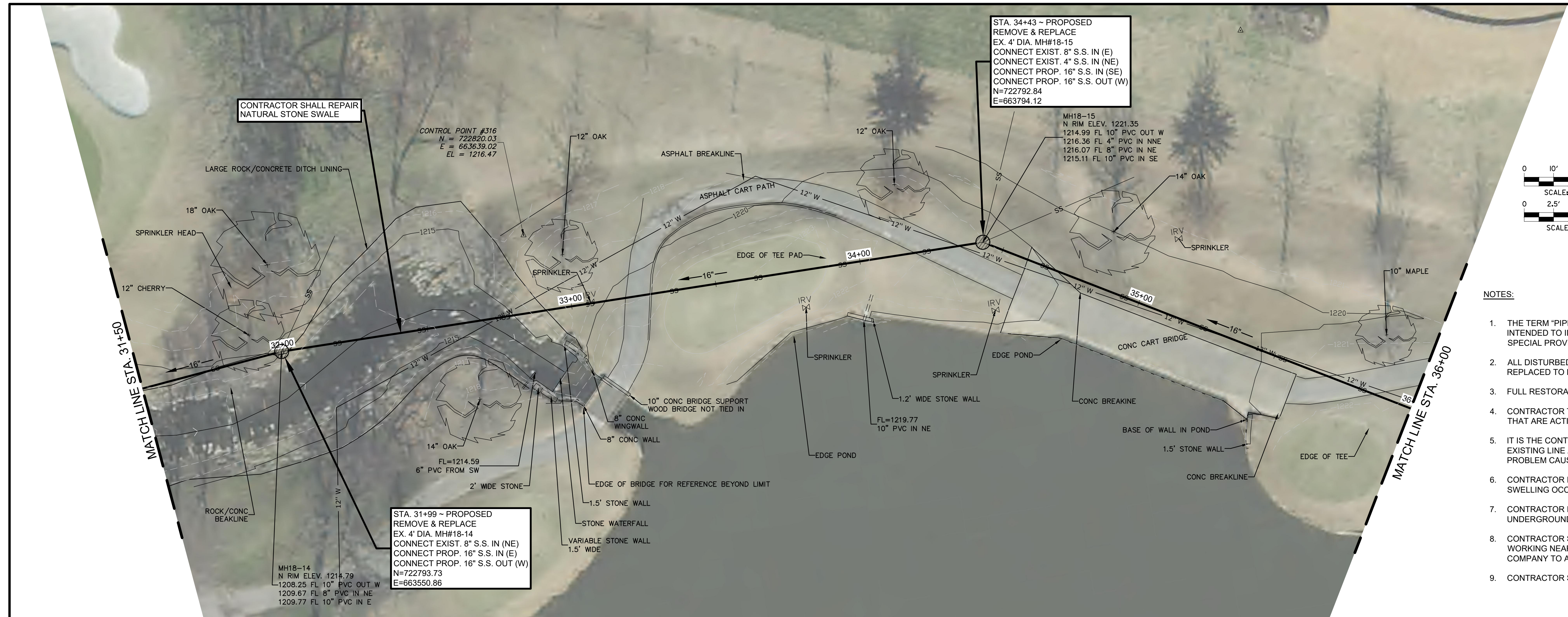
REPLACE 396 LF OF 10" PVC SEWER PIPE W/ 396 LF OF
 16" IPS HDPE (DR-17) ASTM D-3350, ASTM D-1248 BY PIPE BURSTING

| REV. | COMMENTS | BY | DATE |
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STA 24+00 TO STA 28+00
PINNACLE COUNTRY CLUB
SEWER IMPROVEMENTS
ROGERS WATER UTILITIES
CITY OF ROGERS, ARKANSAS
rjngroup R/JN GROUP, INC.
 4170 WEST MLK BLVD., STE. 907
 FAYETTEVILLE, AR 72704

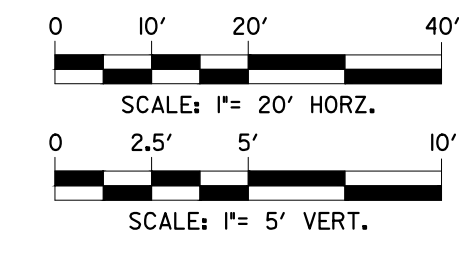
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| SWJ | PRR | MDH | September 2021 | 1"=20'H 1"=5'V | 30-3616-00 | 10 OF 25 |

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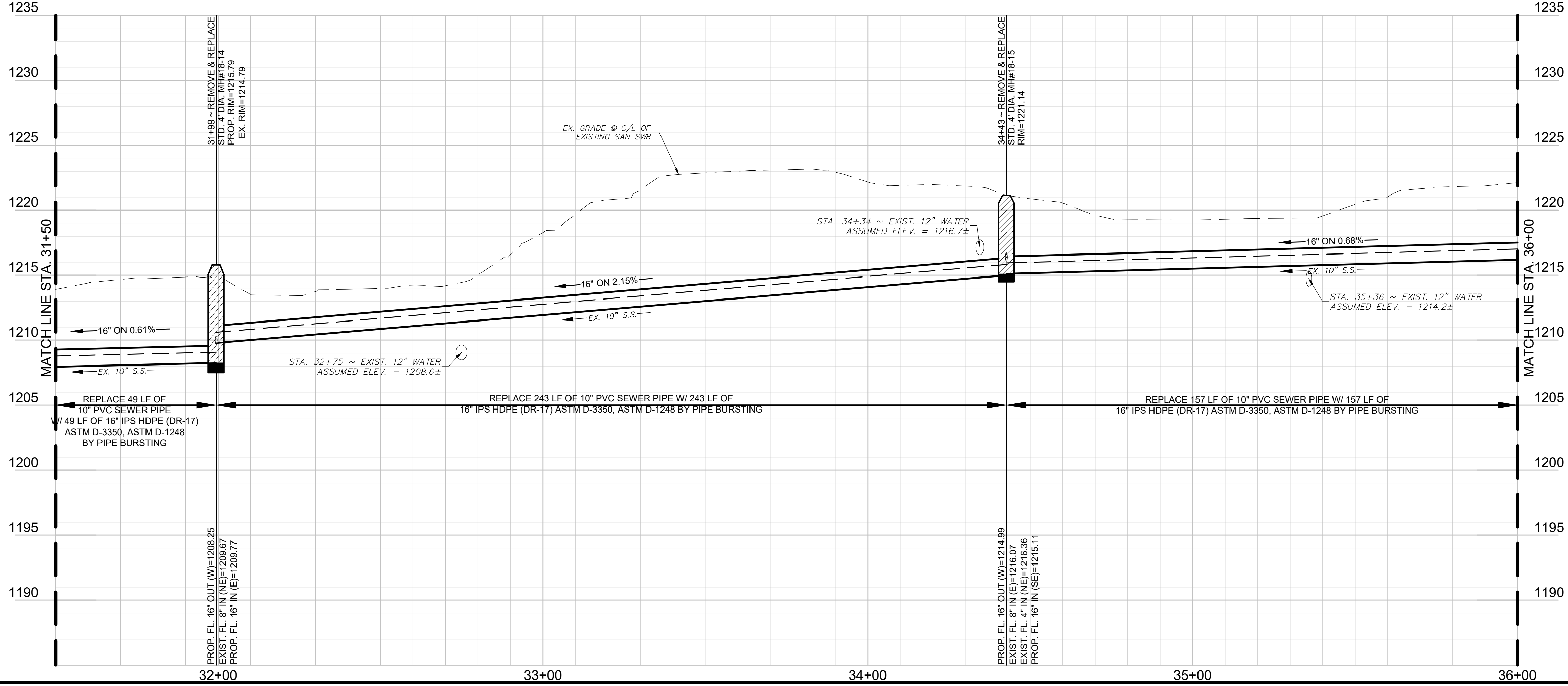
STA. 34+43 ~ PROPOSED REMOVE & REPLACE EX. 4' DIA. MH#18-15
 CONNECT EXIST. 8" S.S. IN (E)
 CONNECT EXIST. 4" S.S. IN (NE)
 CONNECT PROP. 16" S.S. IN (SE)
 CONNECT PROP. 16" S.S. OUT (W)
 N=722792.84
 E=663794.12

STA. 31+99 ~ PROPOSED REMOVE & REPLACE EX. 4' DIA. MH#18-14
 CONNECT EXIST. 8" S.S. IN (NE)
 CONNECT PROP. 16" S.S. IN (E)
 CONNECT PROP. 16" S.S. OUT (W)
 N=722793.73
 E=663550.86



NOTES:

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2. ALL DISTURBED PAVEMENT, CURB AND SOD AREAS DURING LINE REPLACEMENTS TO BE REPLACED TO EQUAL OR BETTER CONDITION.
3. FULL RESTORATION WITHIN 10 DAYS OF COMPLETING SEWER WORK.
4. CONTRACTOR TO VERIFY ALL ACTIVE SERVICE CONNECTIONS AND ONLY RECONNECT SERVICES THAT ARE ACTIVE.
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WARNING!!!
 EXISTING UNDERGROUND TELEPHONE, OVERHEAD, UNDERGROUND ELECTRIC AND GAS UTILITIES IN AREA, CONTACT ONE CALL 48 HOURS PRIOR TO CONSTRUCTION ARKANSAS ONE CALL 1-800-482-8998



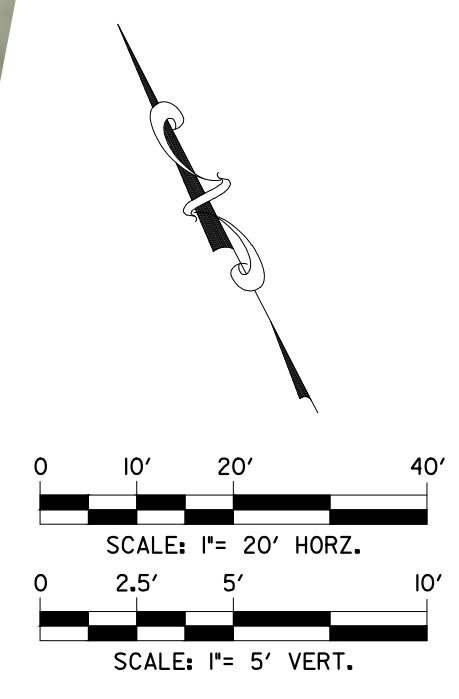
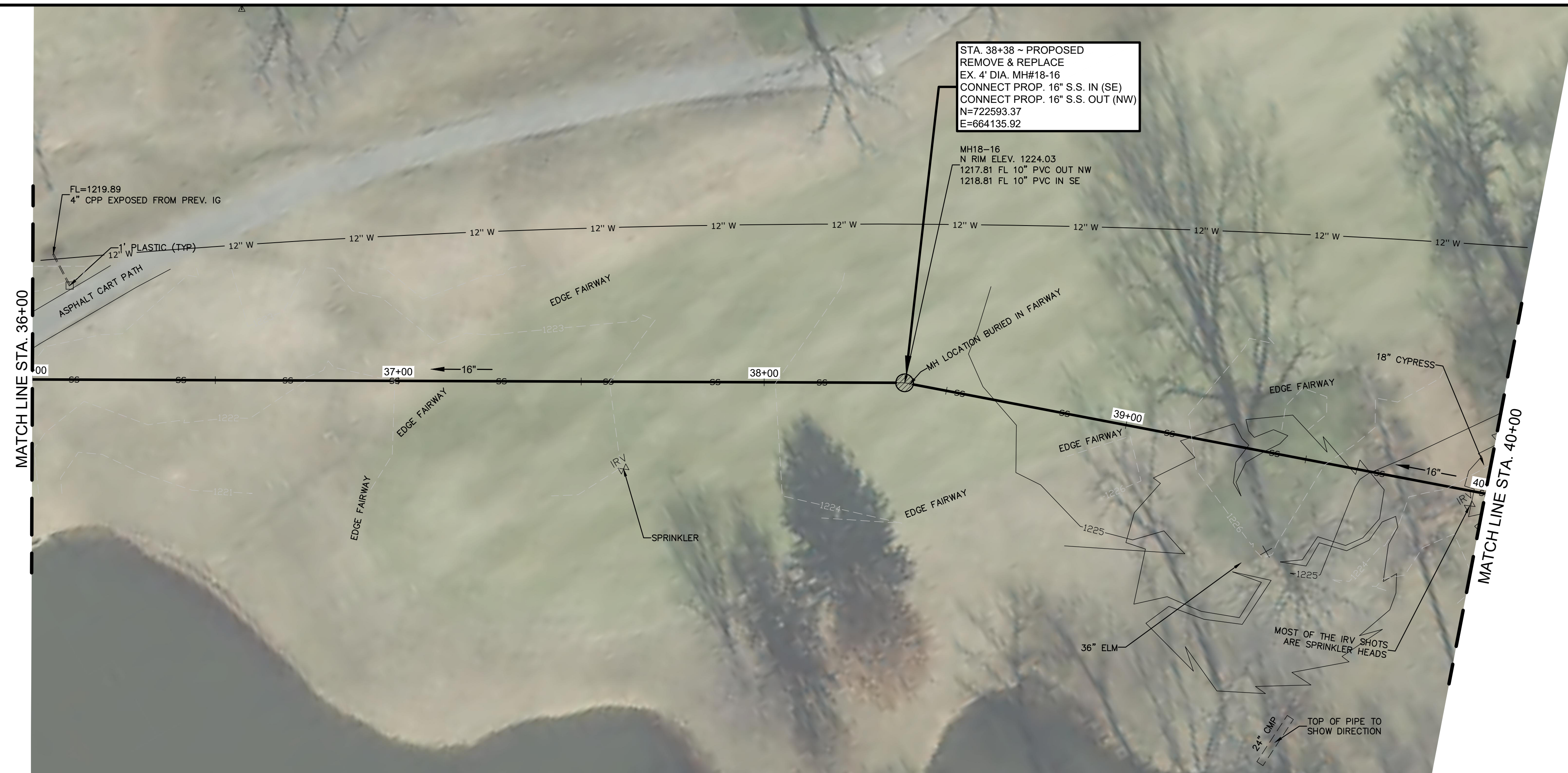
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STA 31+50 TO STA 36+00
PINNACLE COUNTRY CLUB
SEWER IMPROVEMENTS
ROGERS WATER UTILITIES
CITY OF ROGERS, ARKANSAS

rjngroup
 R/JN GROUP, INC.
 4170 WEST MLK BLVD., STE. 907
 FAYETTEVILLE, AR 72704

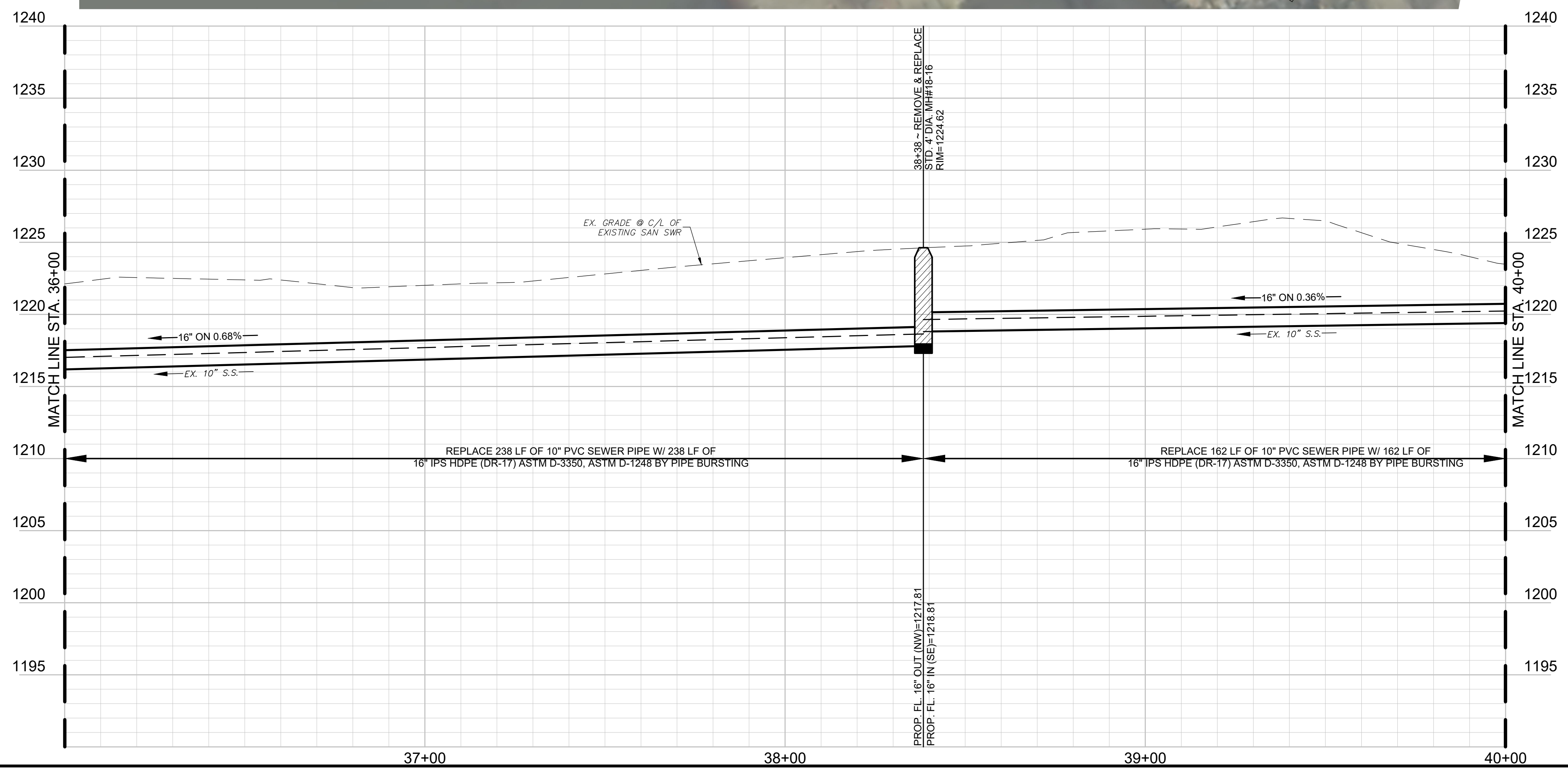
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| SWJ | PRR | MDH | September 2021 | 1"=20'H 1"=5'V | 30-3616-00 | 12 OF 25 |

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- NOTES:**
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WARNING!!!
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 ARKANSAS ONE CALL 1-800-482-8998



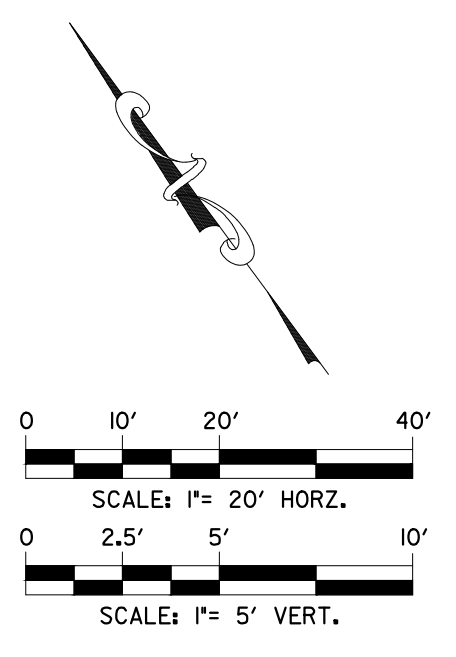
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STA 36+00 TO STA 40+00
PINNACLE COUNTRY CLUB
SEWER IMPROVEMENTS
ROGERS WATER UTILITIES
CITY OF ROGERS, ARKANSAS

rjngroup R/JN GROUP, INC.
 4170 WEST MLK BLVD., STE. 907
 FAYETTEVILLE, AR 72704

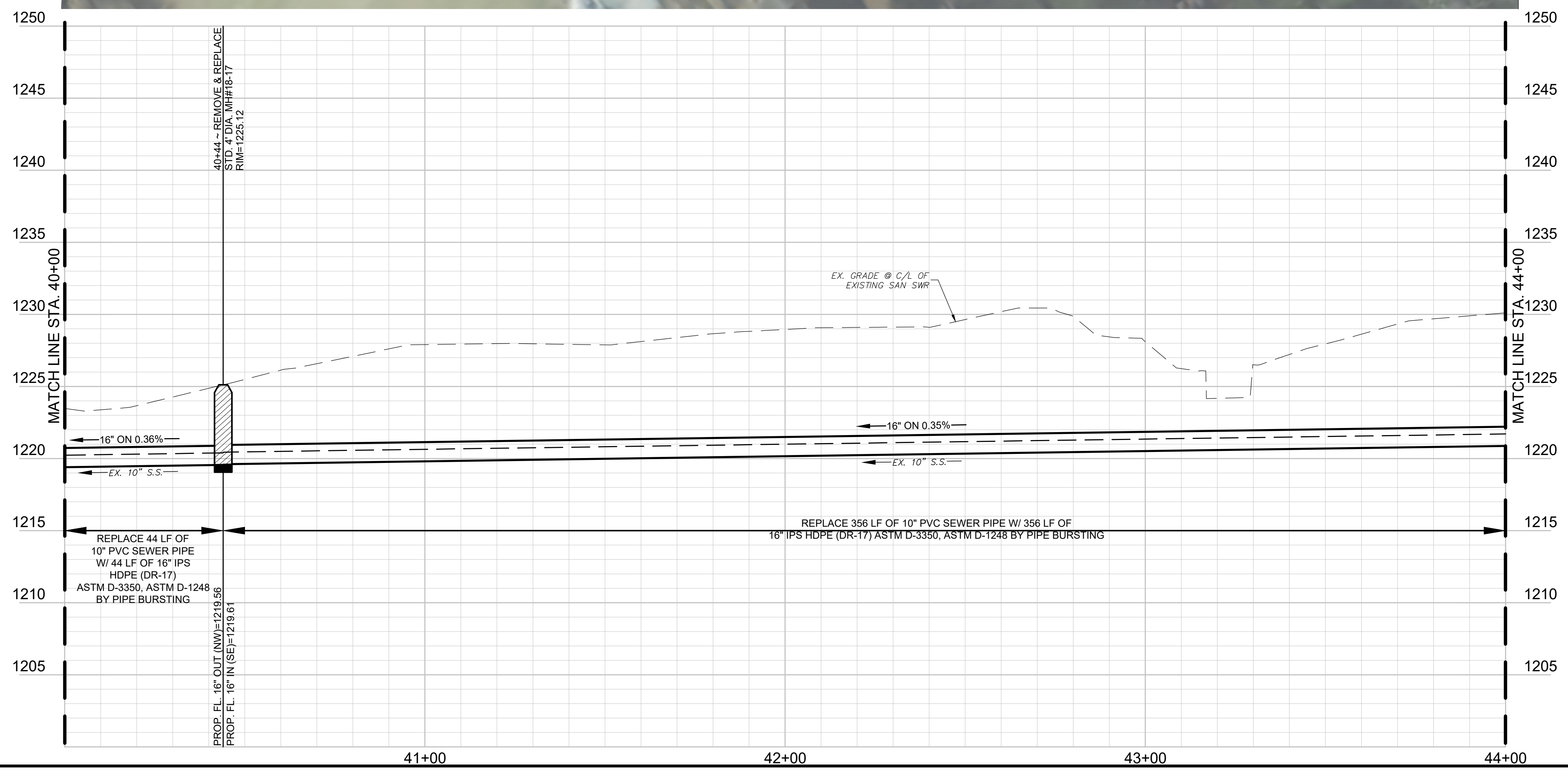
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| SWJ | PRR | MDH | September 2021 | 1"=20'H 1"=5'V | 30-3616-00 | 13 OF 25 |

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 OVERHEAD, UNDERGROUND ELECTRIC AND
 GAS UTILITIES IN AREA, CONTACT ONE CALL
 48 HOURS PRIOR TO CONSTRUCTION
 ARKANSAS ONE CALL 1-800-482-8998



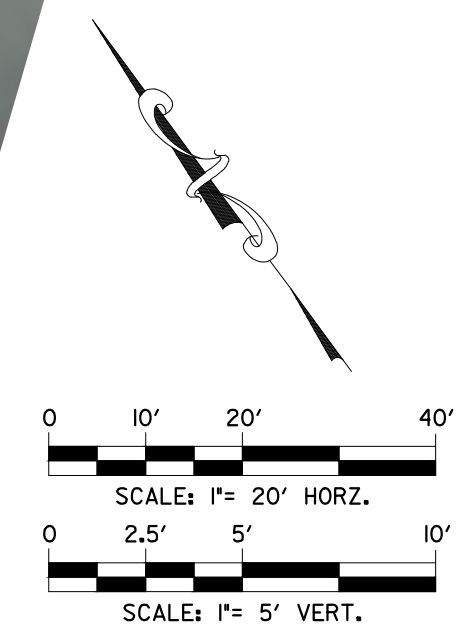
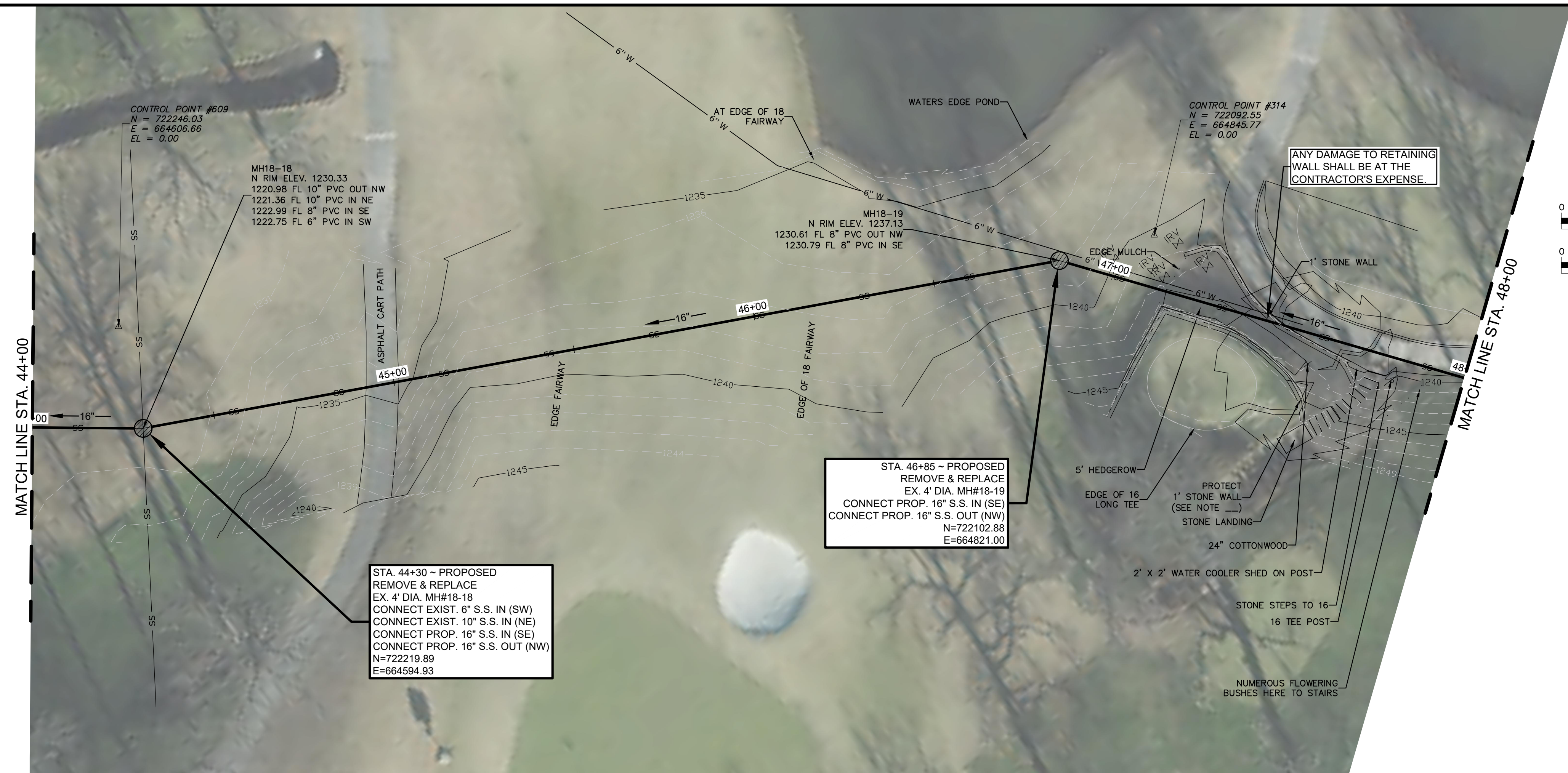
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STA 40+00 TO STA 44+00
PINNACLE COUNTRY CLUB
SEWER IMPROVEMENTS
ROGERS WATER UTILITIES
CITY OF ROGERS, ARKANSAS

rjngroup
 R/JN GROUP, INC.
 4170 WEST MLK BLVD., STE. 907
 FAYETTEVILLE, AR 72704

| DESIGN | DRAWN | QA/QC | DATE | SCALE | PROJECT NO. | SHEET |
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| SWJ | PRR | MDH | September 2021 | 1"=20'H 1"=5'V | 30-3616-00 | 14 OF 25 |

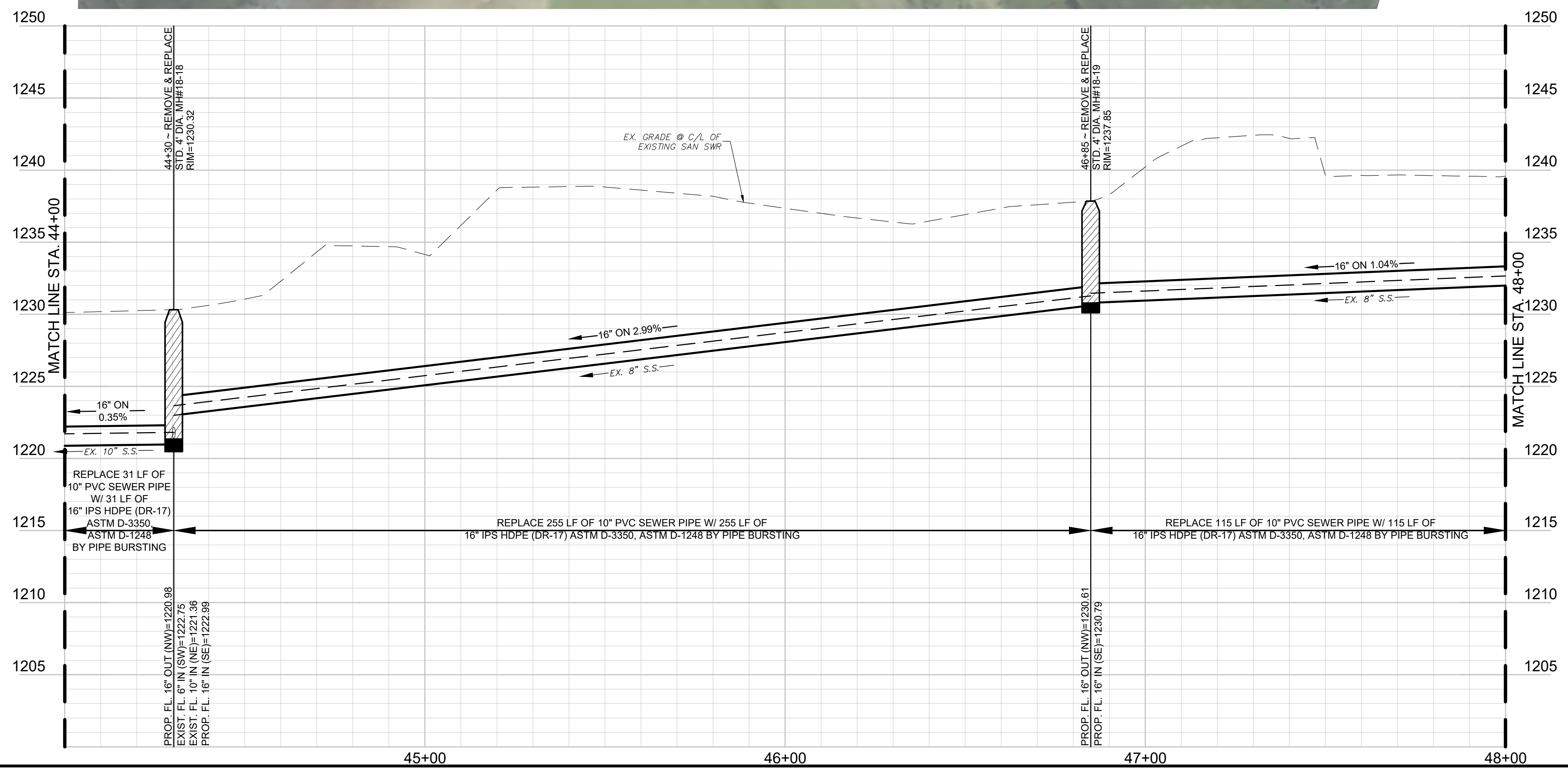
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NOTES:

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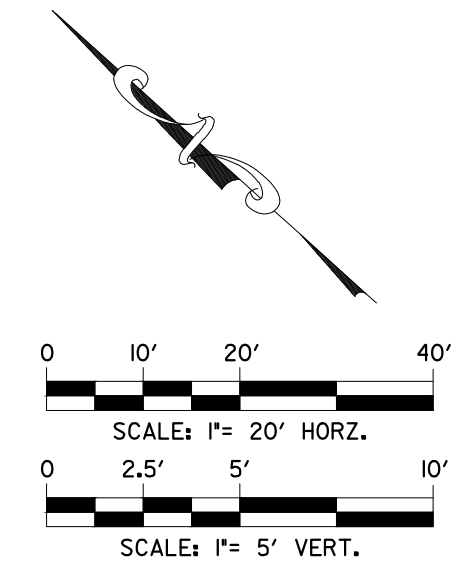
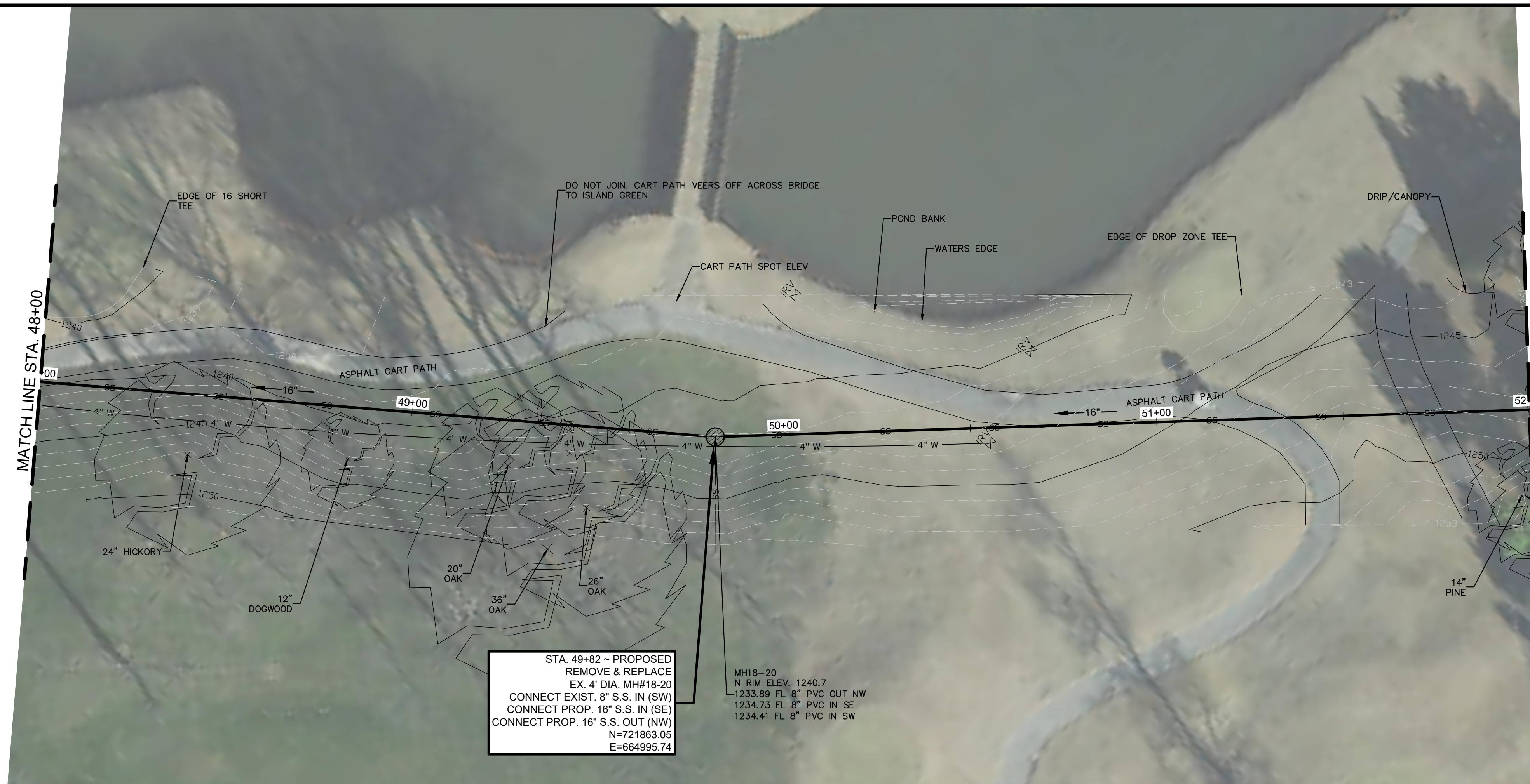
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STA 44+00 TO STA 48+00
PINNACLE COUNTRY CLUB
SEWER IMPROVEMENTS
ROGERS WATER UTILITIES
CITY OF ROGERS, ARKANSAS

rjngroup R/JN GROUP, INC.
4170 WEST MLK BLVD., STE. 907
FAYETTEVILLE, AR 72704

| DESIGN | DRAWN | QA/QC | DATE | SCALE | PROJECT NO. | SHEET |
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| SWJ | PRR | MDH | September 2021 | 1"=20'H 1"=5'V | 30-3616-00 | 15 OF 25 |

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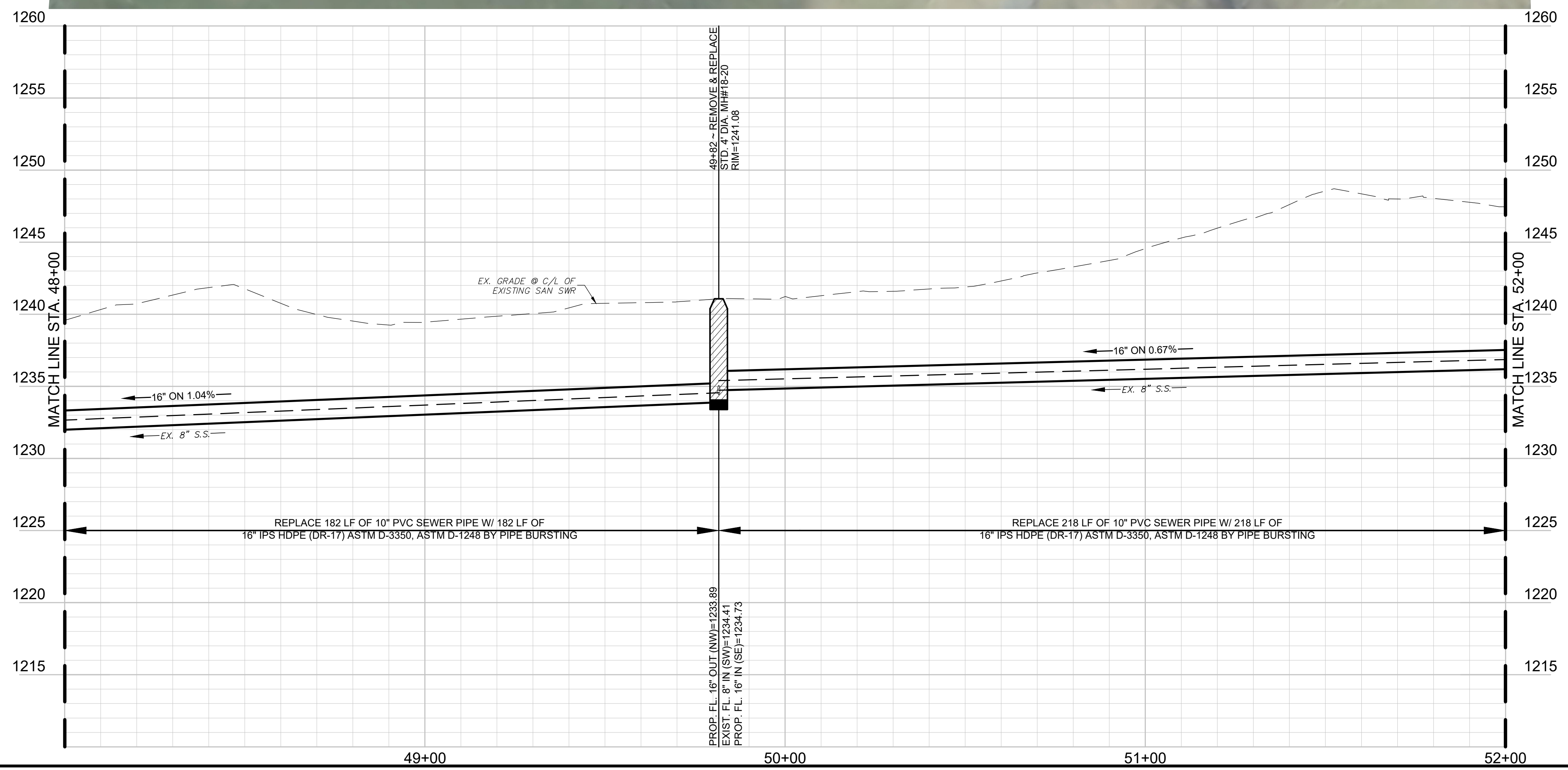


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9. CONTRACTOR SHALL USE COMPOSITE RING & COVER ON ALL MANHOLES.

STA. 49+82 - PROPOSED REMOVE & REPLACE EX. 4" DIA. MH#18-20
 CONNECT EXIST. 8" S.S. IN (SW)
 CONNECT PROP. 16" S.S. IN (SE)
 CONNECT PROP. 16" S.S. OUT (NW)
 N=721863.05
 E=664995.74

MH18-20
 N RIM ELEV. 1240.7
 1233.89 FL 8" PVC OUT NW
 1234.73 FL 8" PVC IN SE
 1234.41 FL 8" PVC IN SW



WARNING!!!
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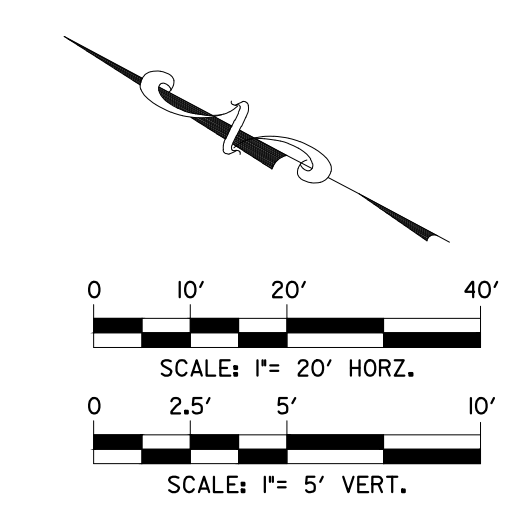
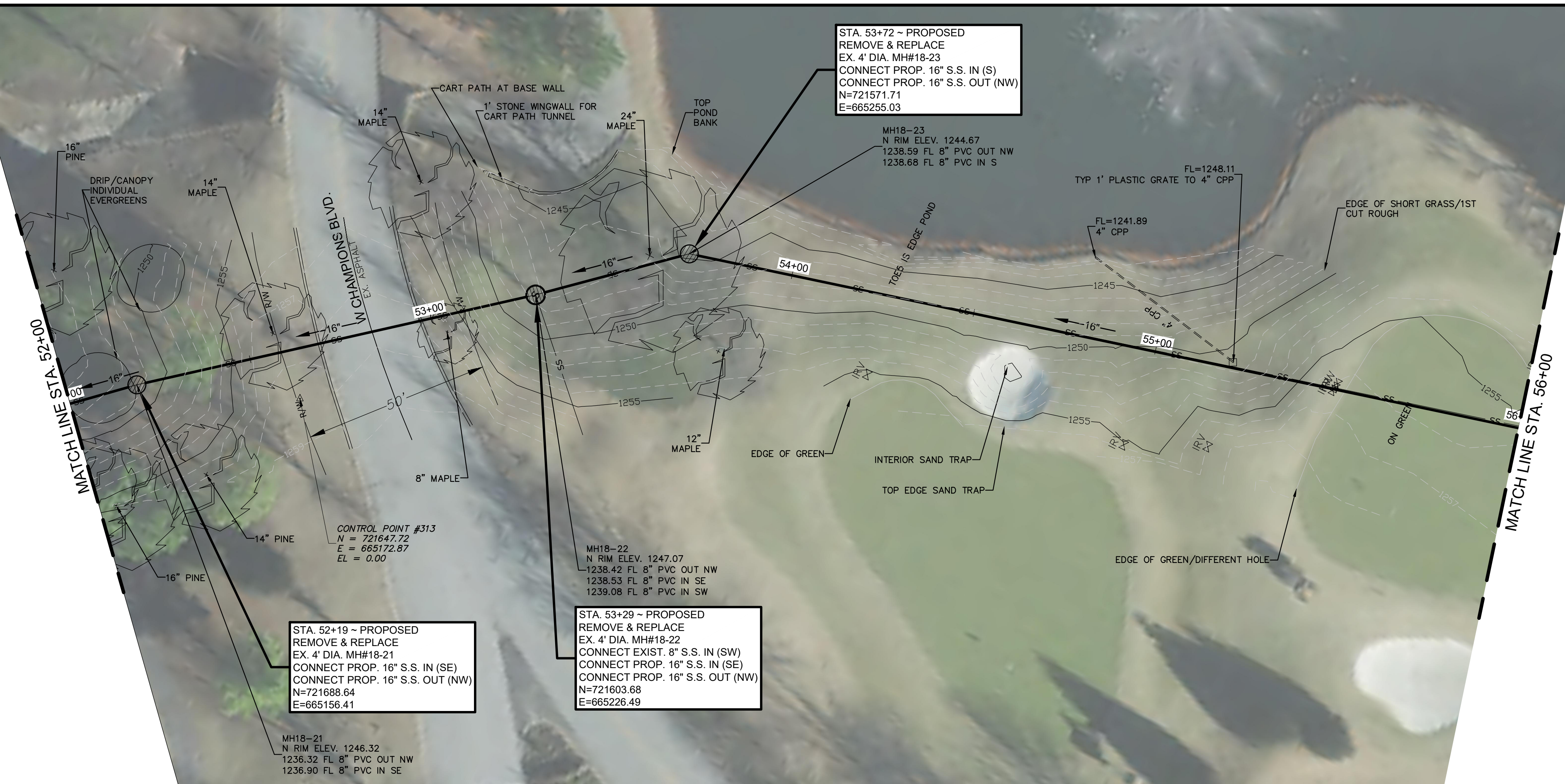
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STA 48+00 TO STA 52+00
PINNACLE COUNTRY CLUB
SEWER IMPROVEMENTS
ROGERS WATER UTILITIES
CITY OF ROGERS, ARKANSAS

rjngroup
 R/JN GROUP, INC.
 4170 WEST MLK BLVD., STE. 907
 FAYETTEVILLE, AR 72704

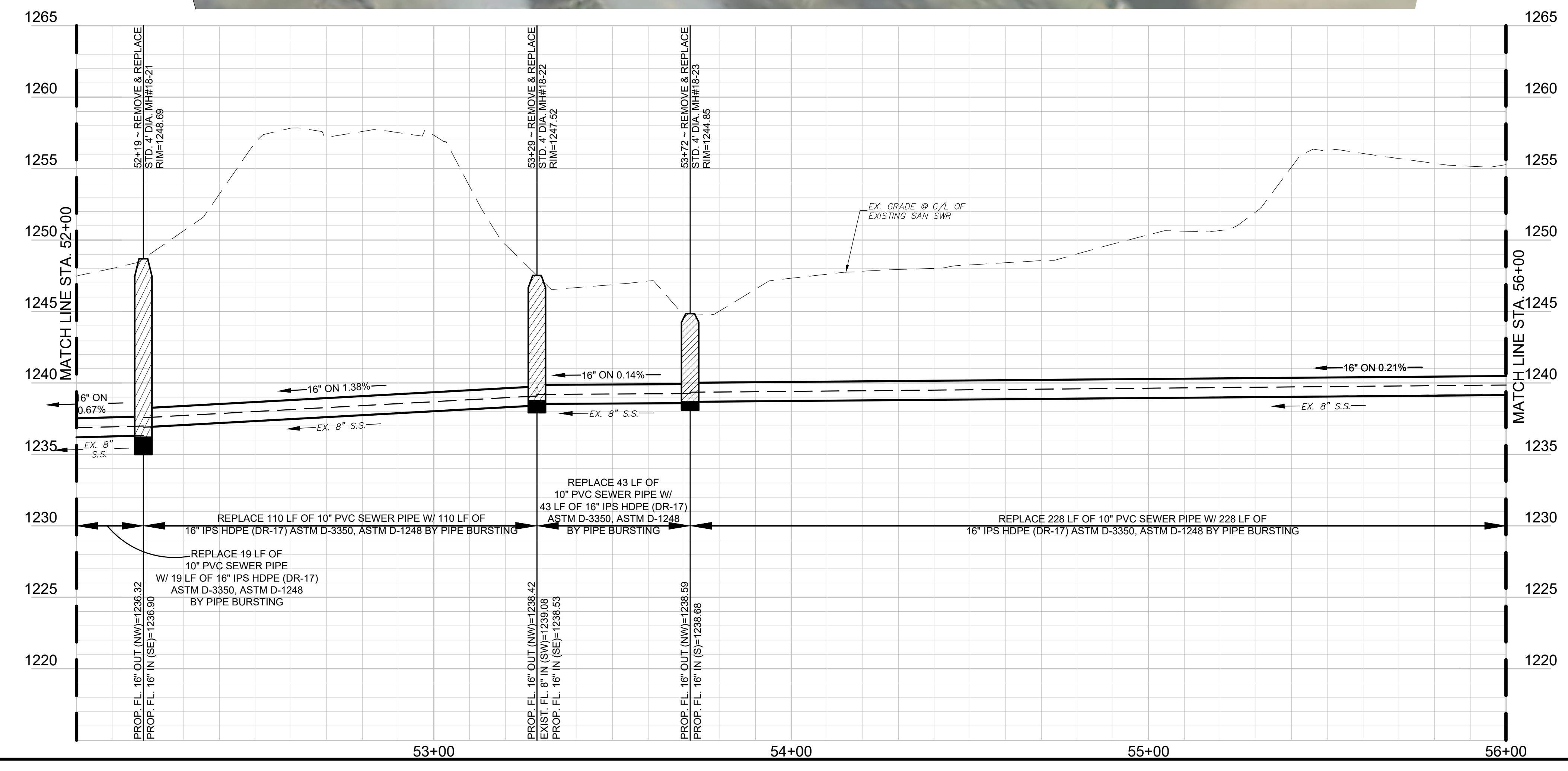
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| SWJ | PRR | MDH | September 2021 | 1"=20'H 1"=5'V | 30-3616-00 | 16 OF 25 |

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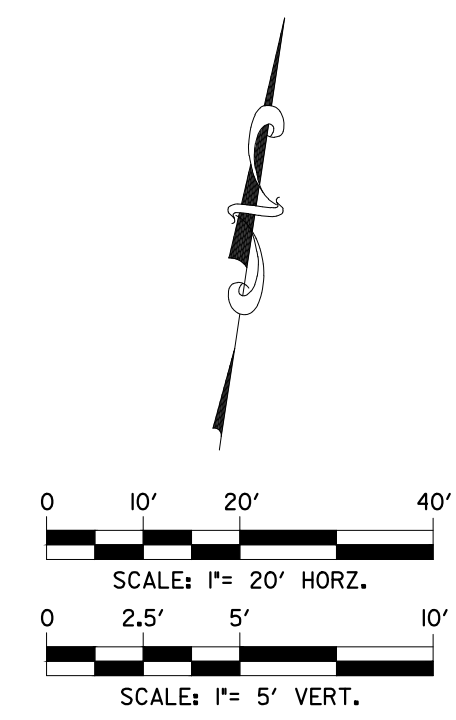
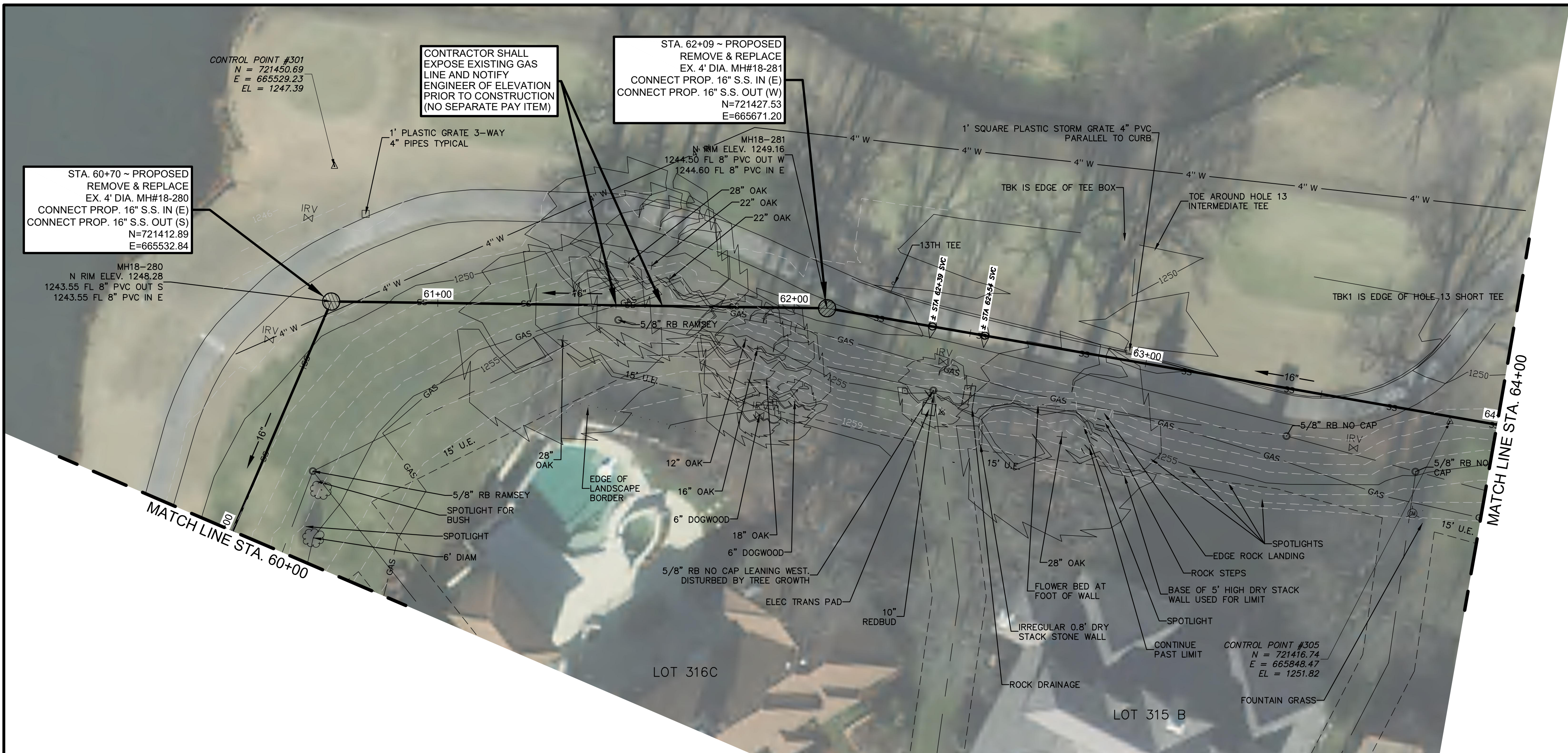
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STA 52+00 TO STA 56+00
PINNACLE COUNTRY CLUB
SEWER IMPROVEMENTS
ROGERS WATER UTILITIES
CITY OF ROGERS, ARKANSAS

rjngroup
 R/JN GROUP, INC.
 4170 WEST MLK BLVD., STE. 907
 FAYETTEVILLE, AR 72704

| DESIGN | DRAWN | QA/QC | DATE | SCALE | PROJECT NO. | SHEET |
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| SWJ | PRR | MDH | September 2021 | 1"=20'H 1"=5'V | 30-3616-00 | 17 OF 25 |

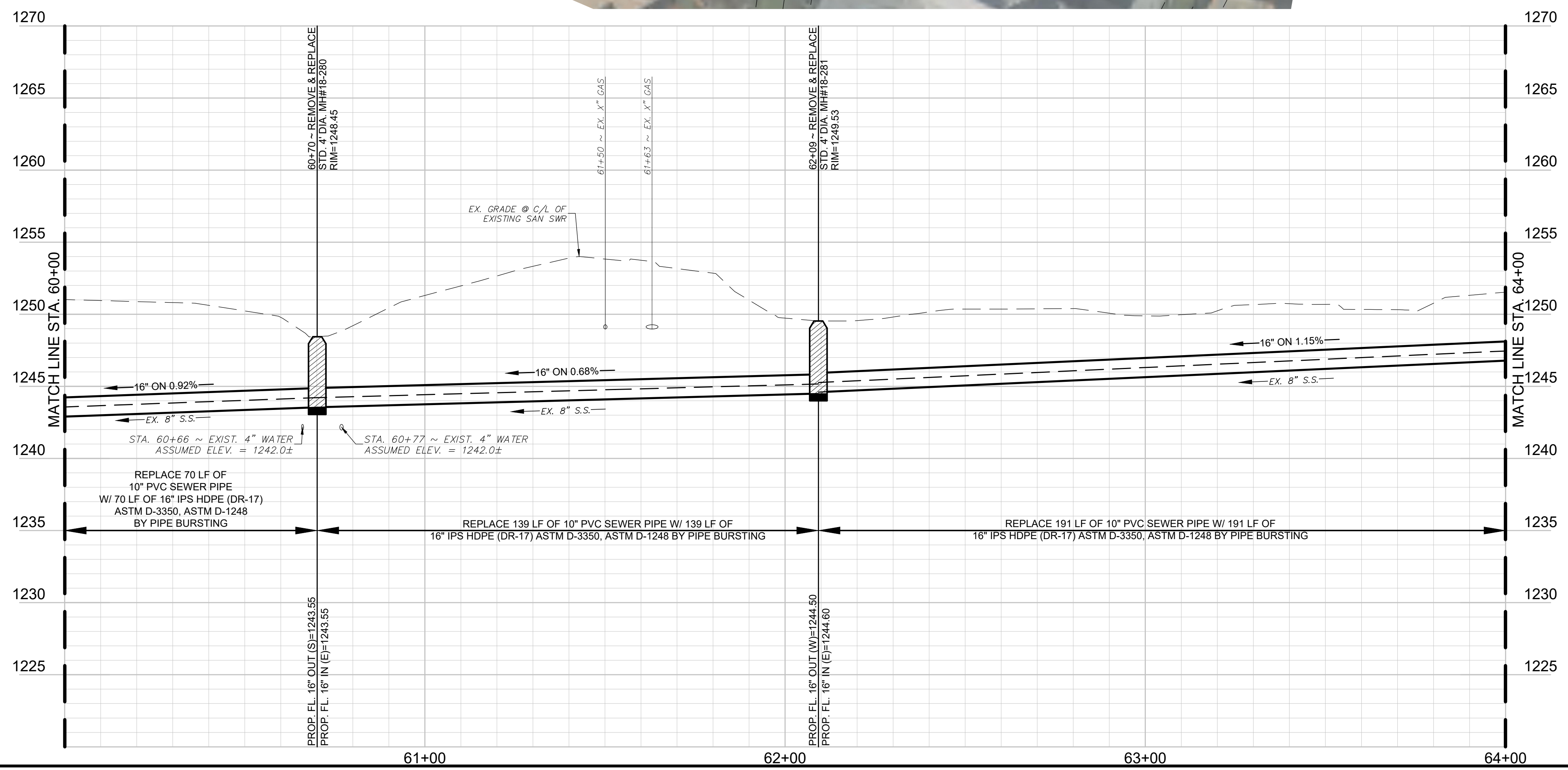
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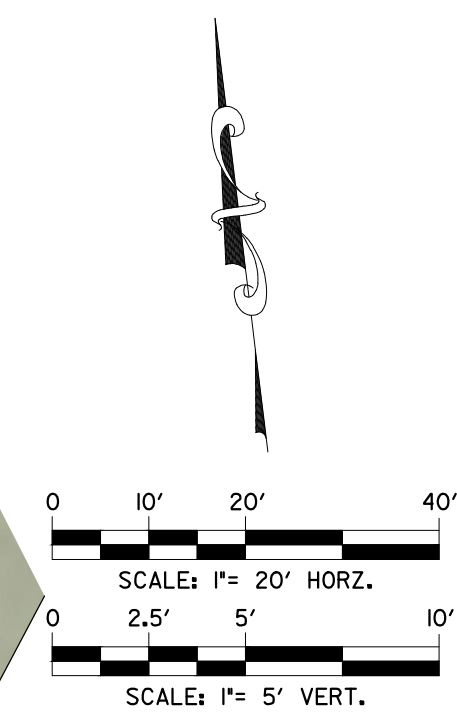
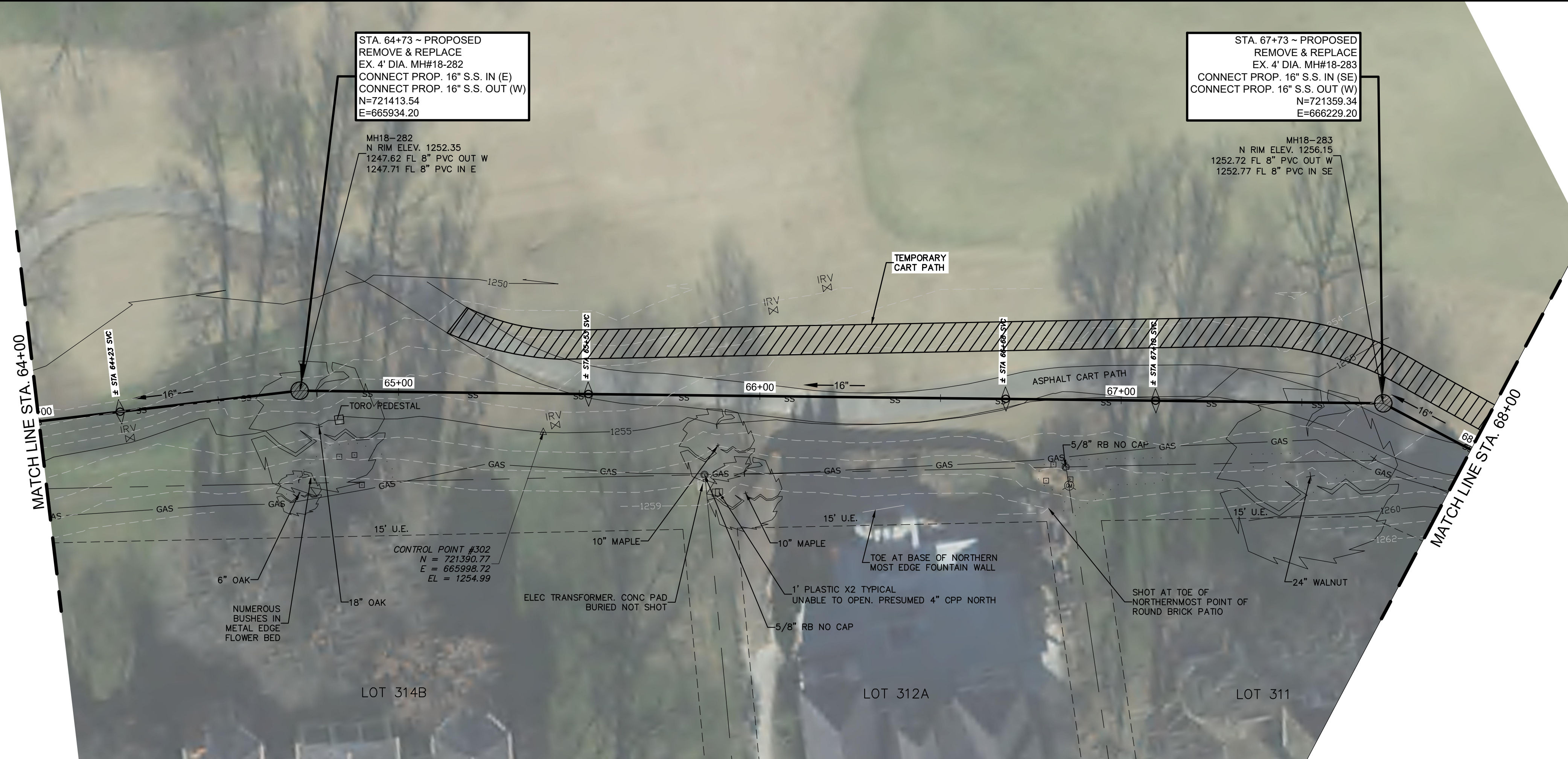
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STA 60+00 TO STA 64+00
PINNACLE COUNTRY CLUB
SEWER IMPROVEMENTS
ROGERS WATER UTILITIES
CITY OF ROGERS, ARKANSAS

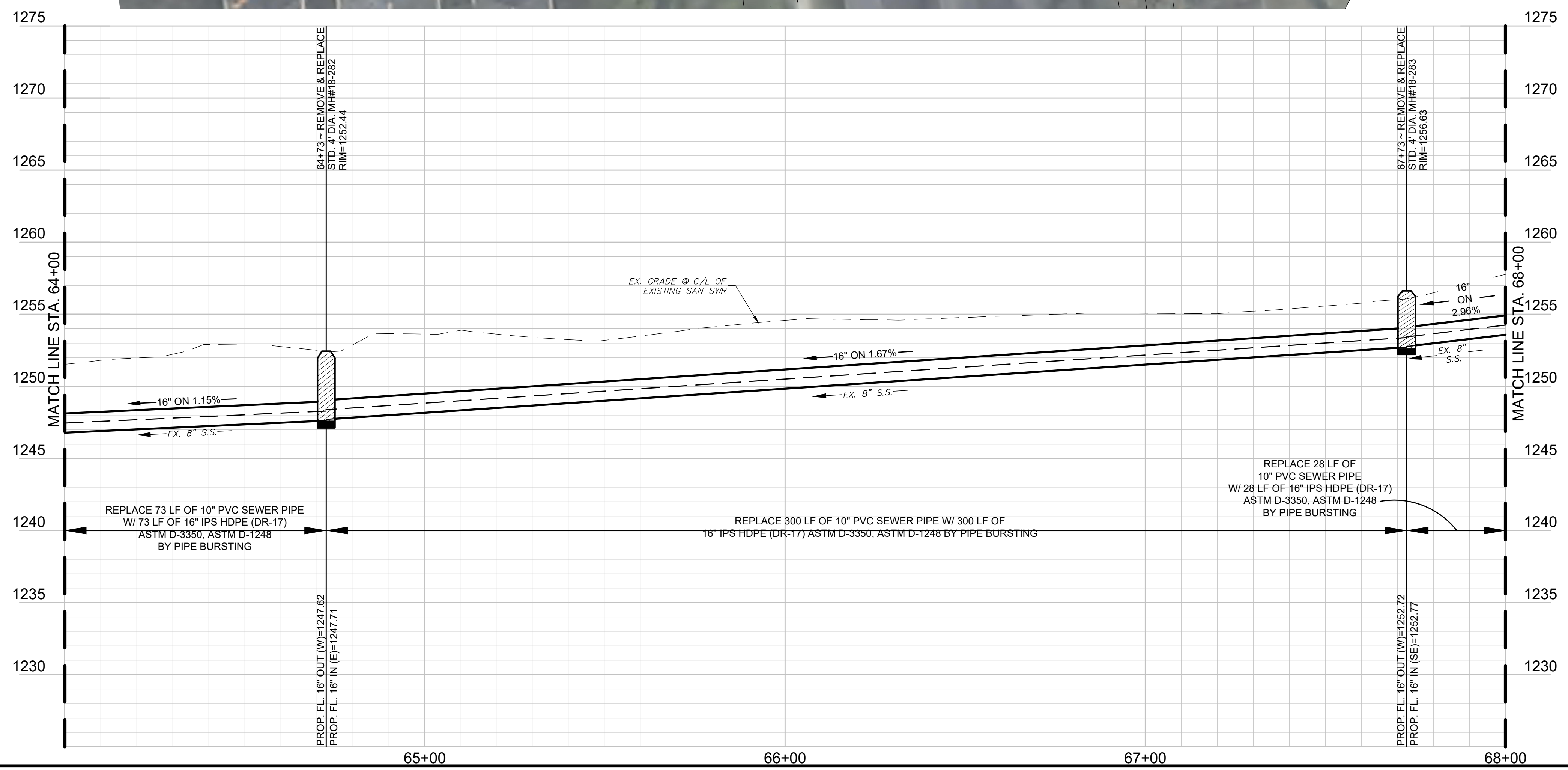
rjngroup
 R/JN GROUP, INC.
 4170 WEST MLK BLVD., STE. 907
 FAYETTEVILLE, AR 72704

| DESIGN | DRAWN | QA/QC | DATE | SCALE | PROJECT NO. | SHEET |
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| SWJ | PRR | MDH | September 2021 | 1"=20'H 1"=5'V | 30-3616-00 | 19 OF 25 |

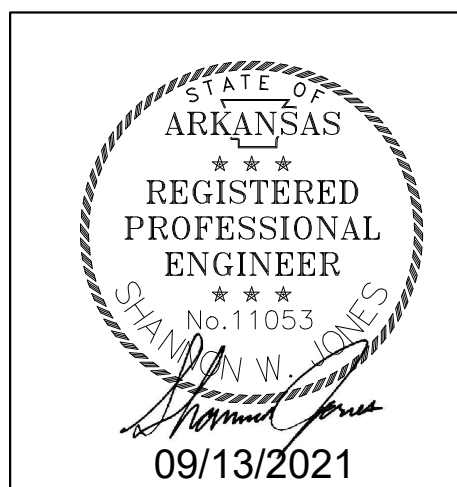
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- NOTES:**
1. THE TERM "PIPE BURSTING" THAT IS USED THROUGHOUT THE CONSTRUCTION PLANS IS INTENDED TO INCLUDE OTHER SIMILAR TRENCHLESS PIPE REPLACEMENT TECHNOLOGIES. SEE SPECIAL PROVISIONS FOR MORE DETAILS.
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 4. CONTRACTOR TO VERIFY ALL ACTIVE SERVICE CONNECTIONS AND ONLY RECONNECT SERVICES THAT ARE ACTIVE.
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WARNING!!!
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 OVERHEAD, UNDERGROUND ELECTRIC AND
 GAS UTILITIES IN AREA, CONTACT ONE CALL
 48 HOURS PRIOR TO CONSTRUCTION
 ARKANSAS ONE CALL 1-800-482-8998



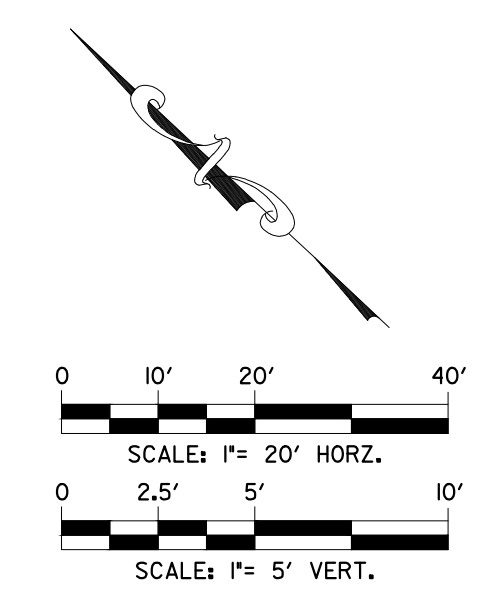
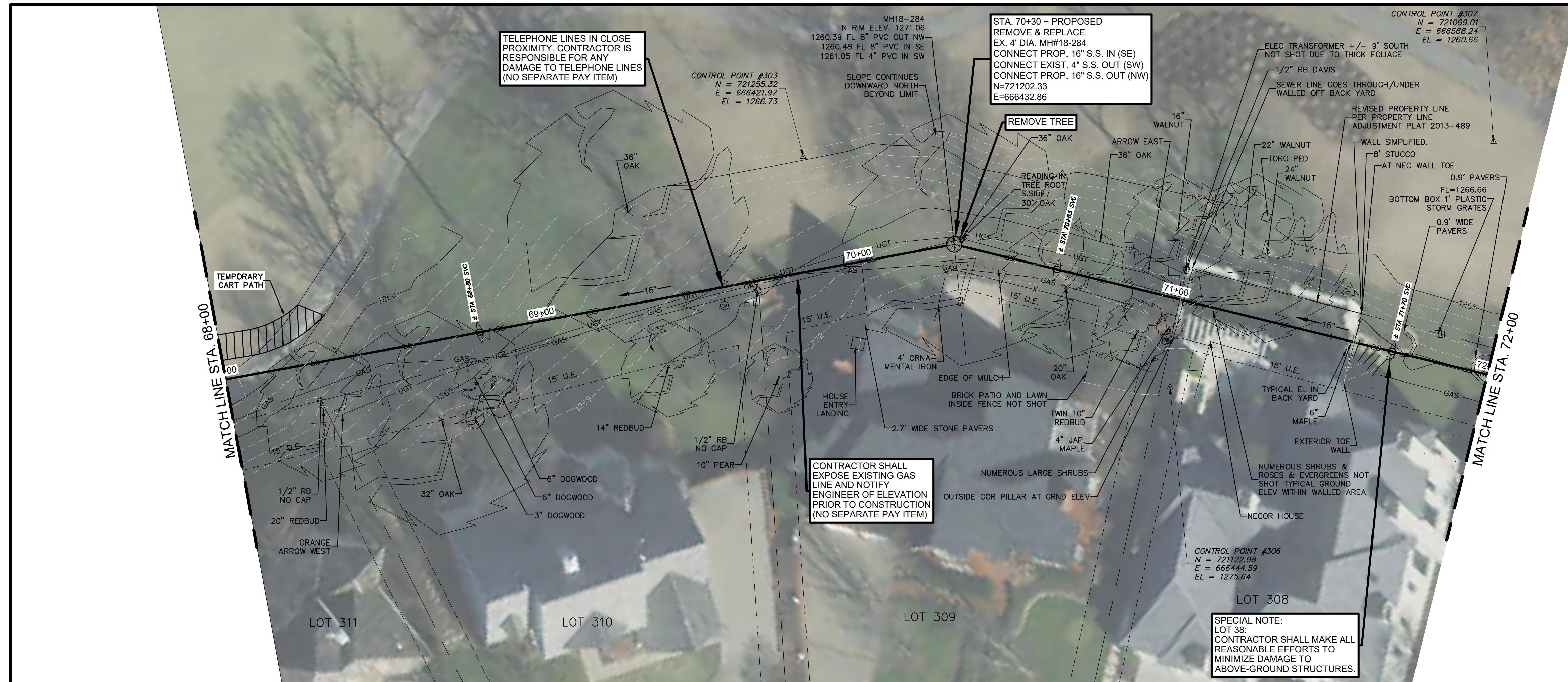
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STA 64+00 TO STA 68+00
PINNACLE COUNTRY CLUB
SEWER IMPROVEMENTS
ROGERS WATER UTILITIES
CITY OF ROGERS, ARKANSAS

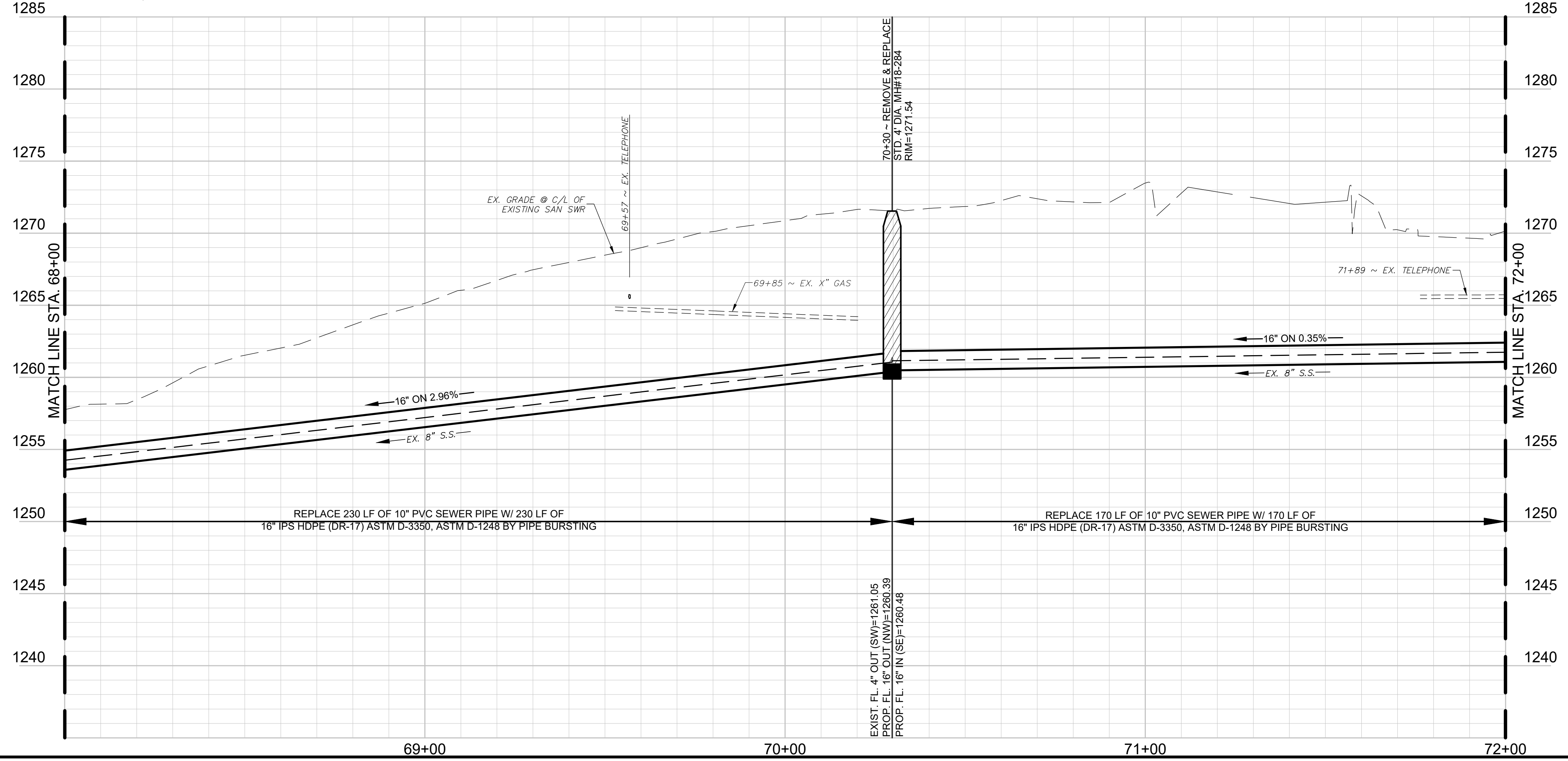
rjngroup
 R/JN GROUP, INC.
 4170 WEST MLK BLVD., STE. 907
 FAYETTEVILLE, AR 72704

| DESIGN | DRAWN | QA/QC | DATE | SCALE | PROJECT NO. | SHEET |
|--------|-------|-------|----------------|---------------------|-------------|----------|
| SWJ | PRR | MDH | September 2021 | 1"=20' H 1"=5' V | 30-3616-00 | 20 OF 25 |

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- NOTES:
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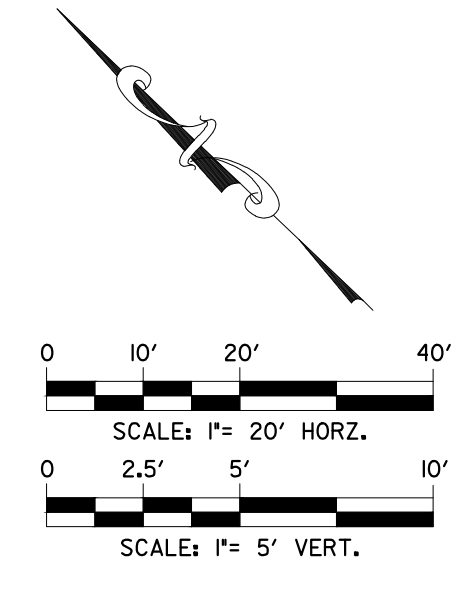
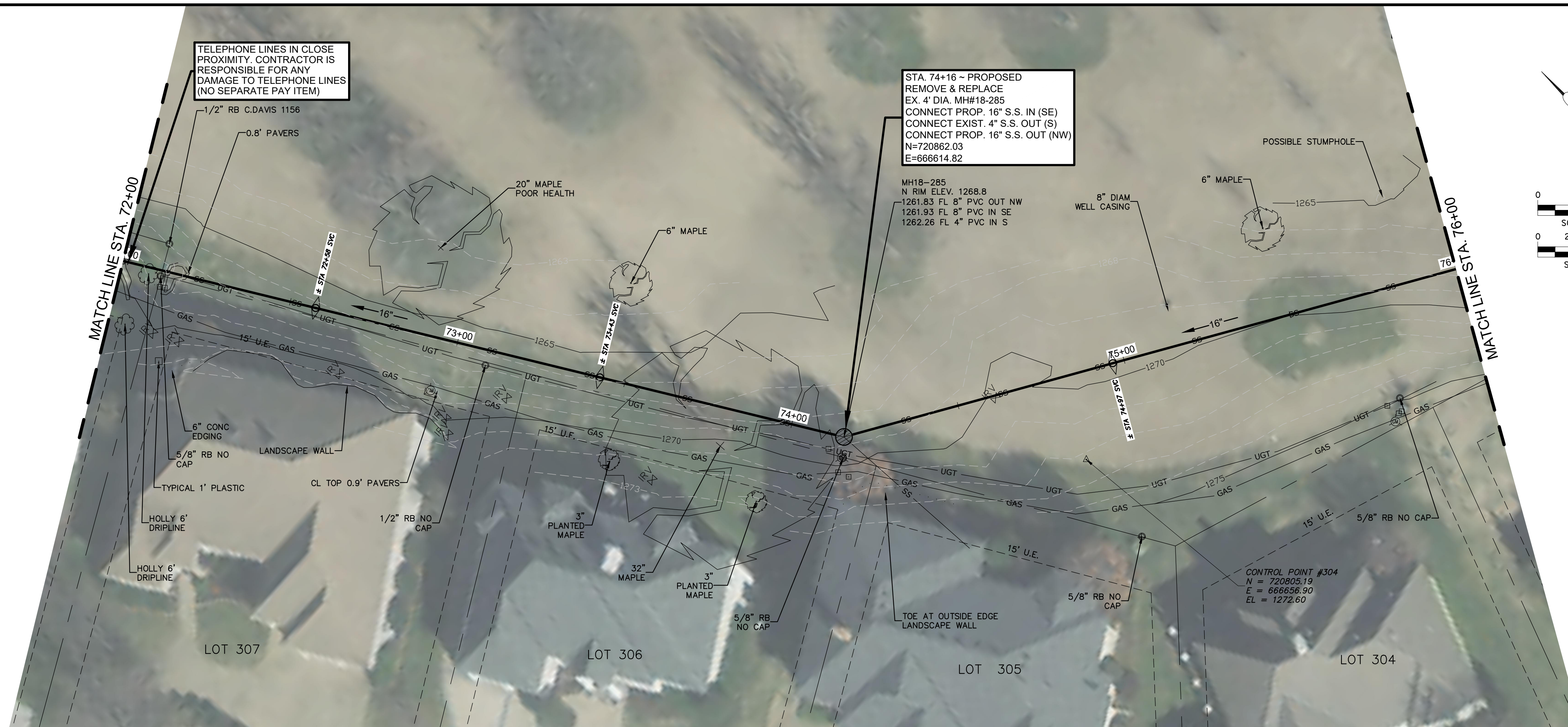
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STA 68+00 TO STA 72+00
PINNACLE COUNTRY CLUB
SEWER IMPROVEMENTS
ROGERS WATER UTILITIES
CITY OF ROGERS, ARKANSAS

rjngroup R/JN GROUP, INC.
4170 WEST MLK BLVD., STE. 907
FAYETTEVILLE, AR 72704

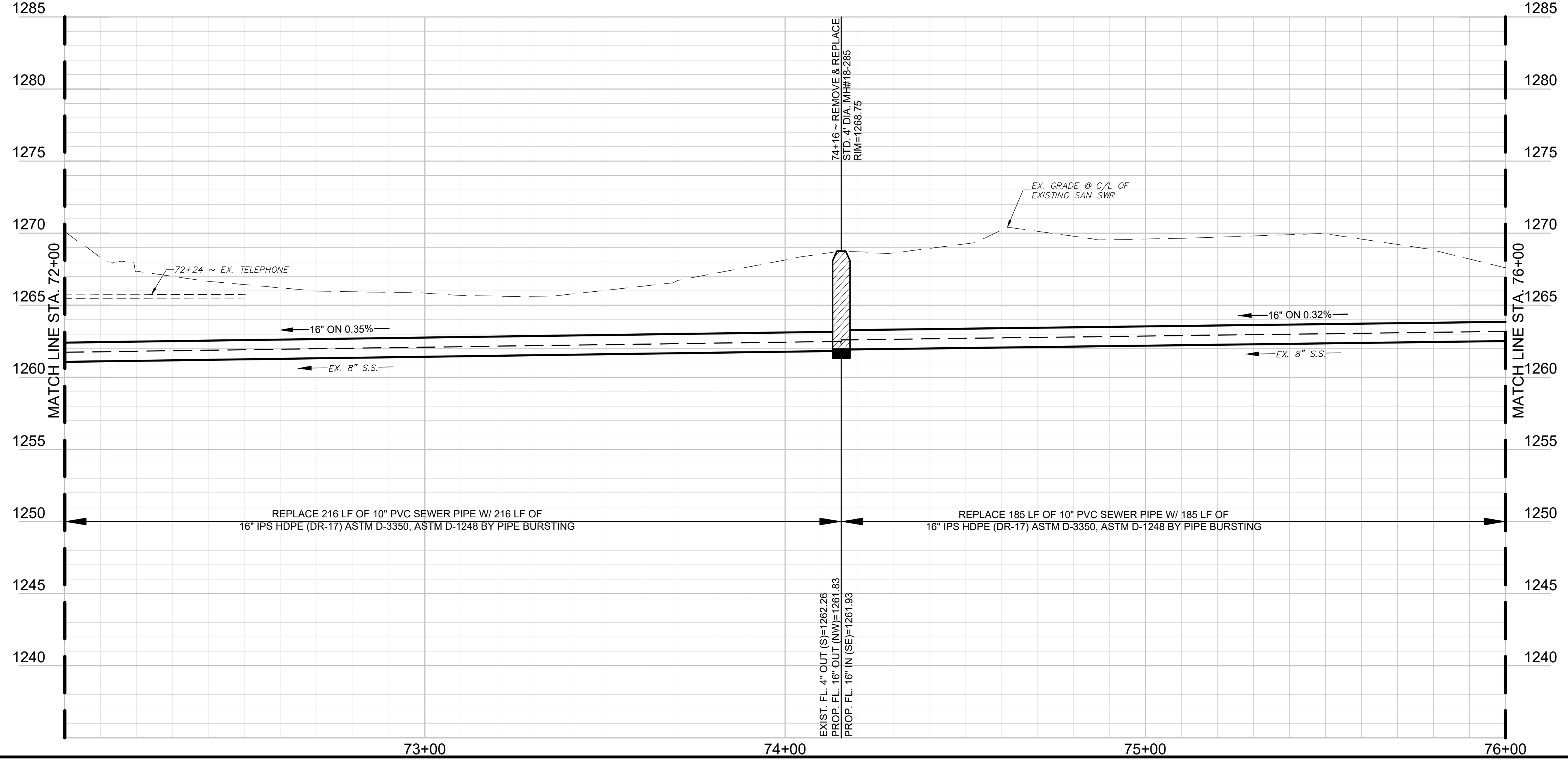
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| SWJ | PRR | MDH | September 2021 | 1"=20'H 1"=5'V | 30-3616-00 | 21 OF 25 |

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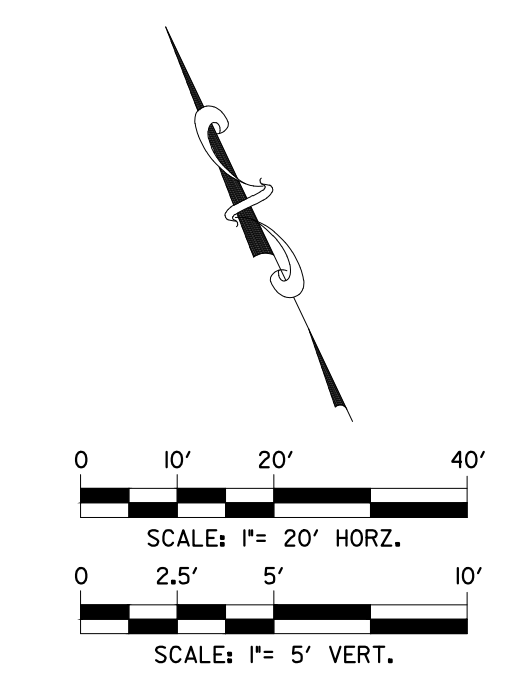
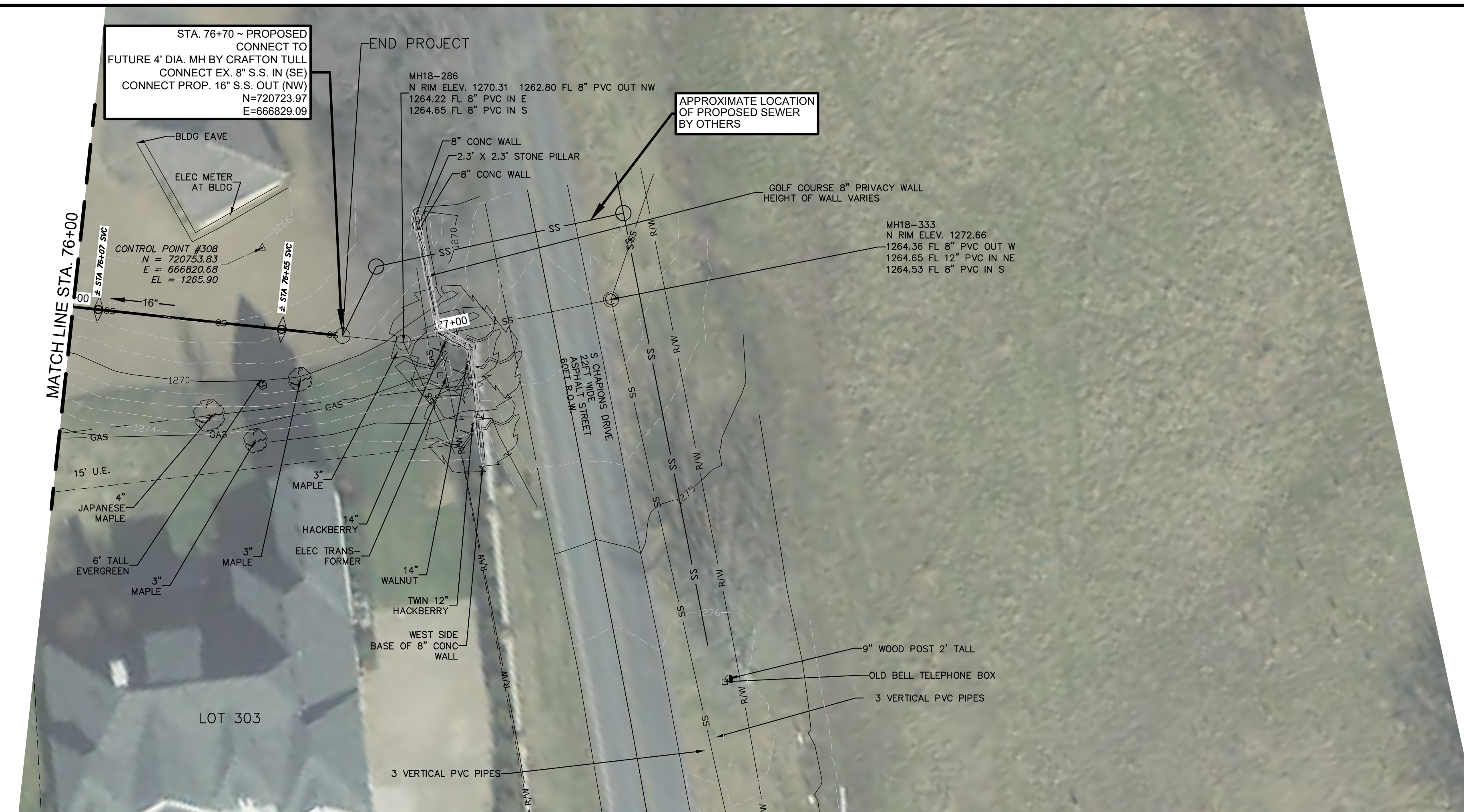
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STA 72+00 TO STA 76+00
PINNACLE COUNTRY CLUB
SEWER IMPROVEMENTS
ROGERS WATER UTILITIES
CITY OF ROGERS, ARKANSAS

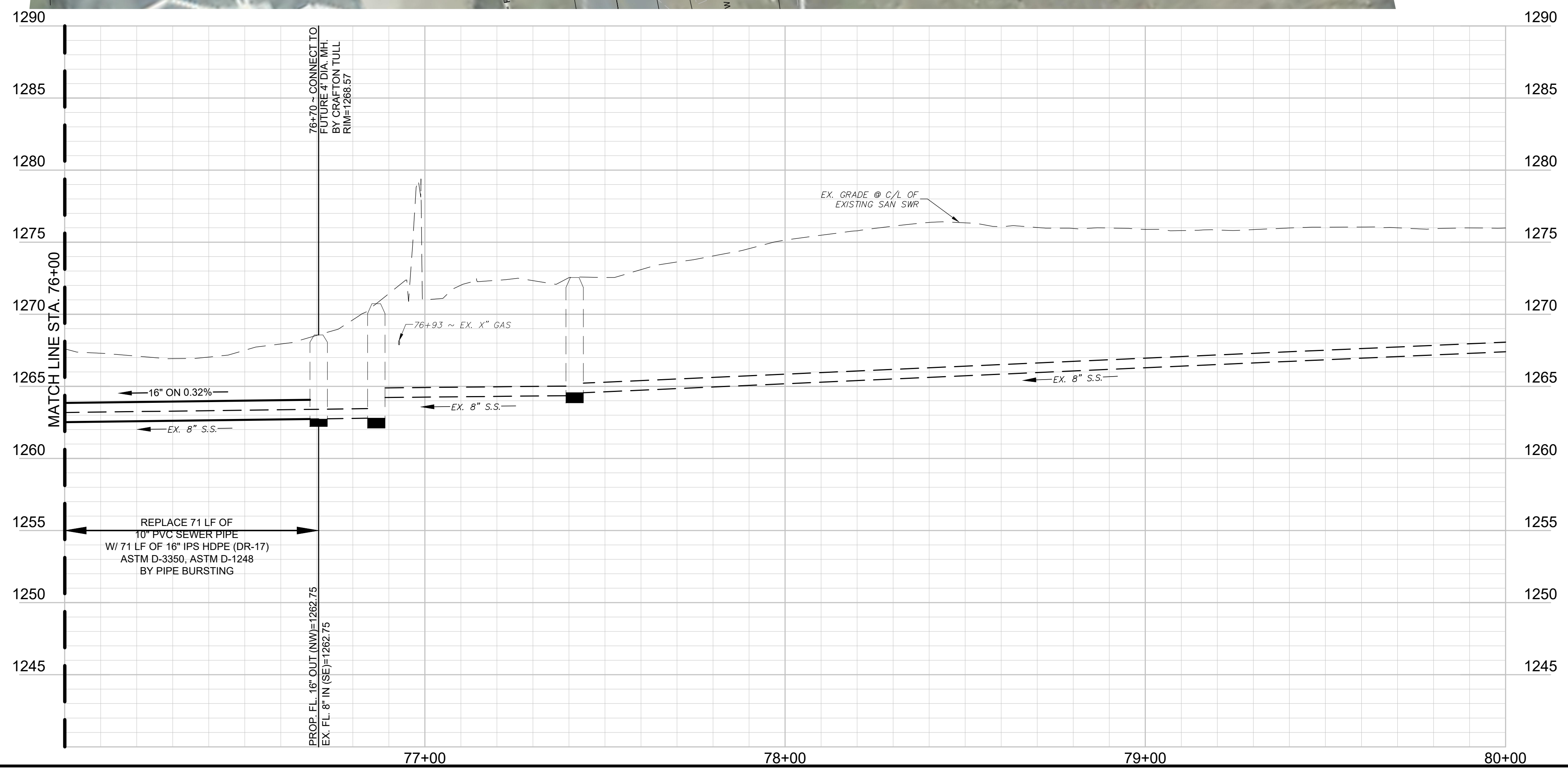
rjngroup R/JN GROUP, INC.
4170 WEST MLK BLVD., STE. 907
FAYETTEVILLE, AR 72704

| DESIGN | DRAWN | QA/QC | DATE | SCALE | PROJECT NO. | SHEET |
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| SWJ | PRR | MDH | September 2021 | 1"=20'H 1"=5'V | 30-3616-00 | 22 OF 25 |

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- NOTES:**
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**STA 76+00 TO END
 PINNACLE COUNTRY CLUB
 SEWER IMPROVEMENTS
 ROGERS WATER UTILITIES
 CITY OF ROGERS, ARKANSAS**

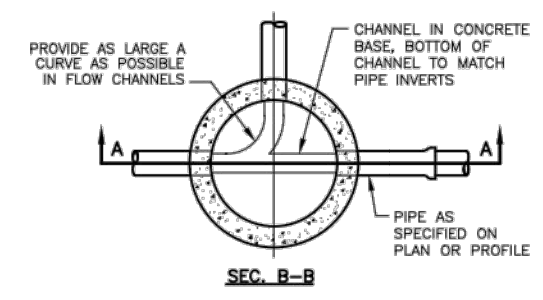
rjngroup R/JN GROUP, INC.
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 FAYETTEVILLE, AR 72704

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| SWJ | PRR | MDH | September 2021 | 1"=20'H 1"=5'V | 30-3616-00 | 23 OF 25 |

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SEE MATERIAL SPECIFICATIONS FOR APPROVED MANUFACTURERS

- NOTES:
- A MANHOLE BARREL CONSTRUCTION JOINT IS ALLOWED WITHIN A STRAIGHT WALL SEGMENT OF THE BARREL. THE JOINT SHALL BE LOCATED AT THE CENTER OF THE BARREL. THE JOINT SHALL BE REINFORCED WITH 4" x 4" REBAR AT 12" ON CENTER WITH 12" EMBEDMENT. A WATER STOP SHALL BE USED IF DIRECTED BY THE UTILITY.
 - THE BASE AND WALLS SHALL BE POURED MONOLITHICALLY.
 - THE CENTERLINE OF ALL PIPES ENTERING AND LEAVING MANHOLE SHALL PASS THROUGH THE CENTER OF THE MANHOLE.
 - MANHOLES THAT ARE LESS THAN 12'-0" IN DEPTH SHALL BE INDIVIDUALLY DESIGNED PER LOCATION CONDITIONS AND MUST BE APPROVED BY THE UTILITY.
 - FOUR OUTSIDE MANHOLE BASE SO THAT THE TOP OF OUTSIDE BASE IS EVEN OR 2-INCH ABOVE THE CROWN OF THE PIPES ENTERING THE MANHOLE. EXTEND MANHOLE BASE TO LIMITS OF EXCAVATION IN ALL DIRECTIONS.
 - 24" MINIMUM CONSTRUCT FLOW CHANNEL FOR ALL PIPES ENTERING MANHOLE, INCLUDING SERVICES. SLOPE CHANNELS TO MATCH PIPE INVERTS.
 - THE TOP OF MANHOLE TO BE LEVEL WITH FINISHED GRADE, UNLESS OTHERWISE NOTED OR DIRECTED BY THE UTILITY.
 - BRUSH FINISH SURFACES OF CONCRETE AND REMOVE ALL SHARP EDGES.



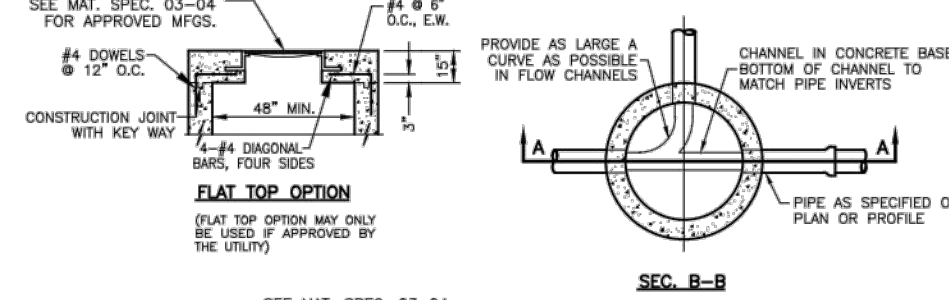
6 FT. CAST-IN-PLACE SANITARY SEWER MANHOLE DETAIL

N.T.S.

SD-1
1
REV. DEC. 2006

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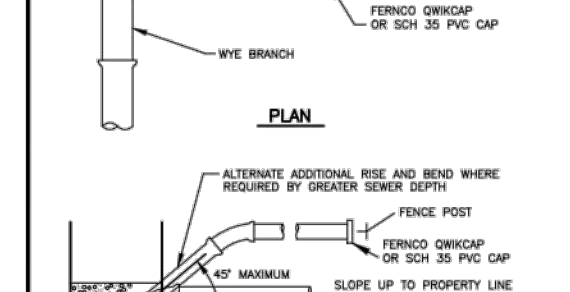


4 FT. CAST-IN-PLACE SANITARY SEWER MANHOLE DETAIL

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2
REV. DEC. 2006

SEE MATERIAL SPECIFICATIONS FOR APPROVED MANUFACTURERS

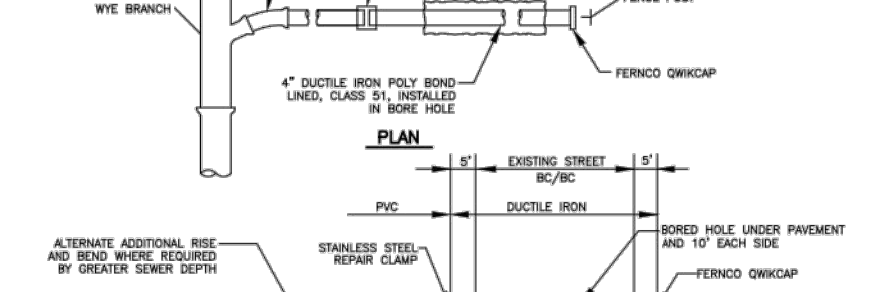


STANDARD SEWER SERVICE LATERAL

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3

SEE MATERIAL SPECIFICATIONS FOR APPROVED MANUFACTURERS

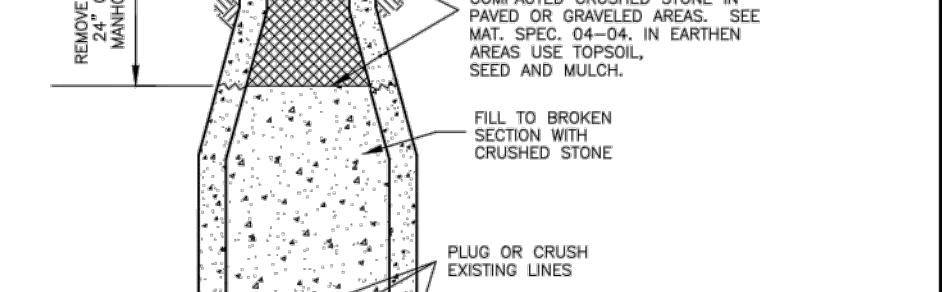


BORED SEWER SERVICE LATERAL UNDER EXISTING STREET

N.T.S.

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4

SEE MATERIAL SPECIFICATIONS FOR APPROVED MANUFACTURERS

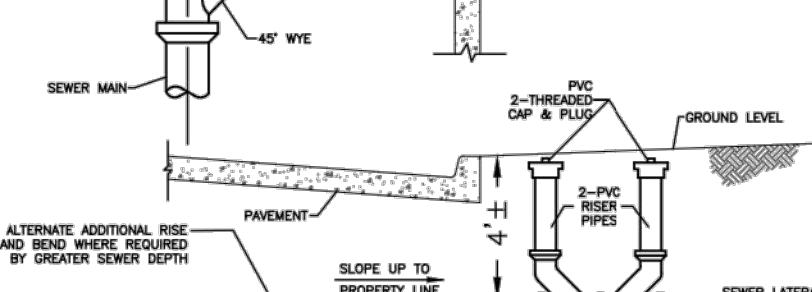


SANITARY SEWER MANHOLE ABANDONMENT

N.T.S.

SD-1
5

SEE MATERIAL SPECIFICATIONS FOR APPROVED MANUFACTURERS

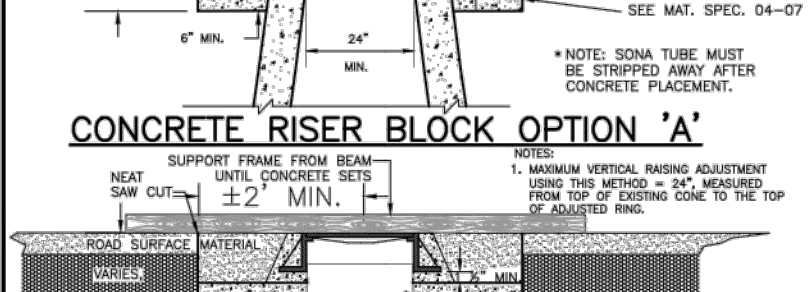


4 INCH TWO-WAY SERVICE CLEANOUT

N.T.S.

SD-1
6

SEE MATERIAL SPECIFICATIONS FOR APPROVED MANUFACTURERS



CONCRETE RISER BLOCK OPTION 'A'

CONCRETE RISER BLOCK OPTION 'B'

N.T.S.

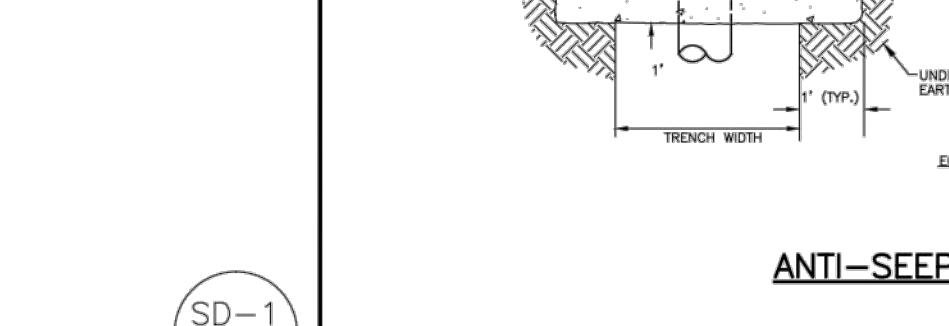
SD-1
6A

RESERVED

[HTTP://WWW.RWU.ORG/ENGINEERING.HTM](http://www.rwu.org/engineering.htm)

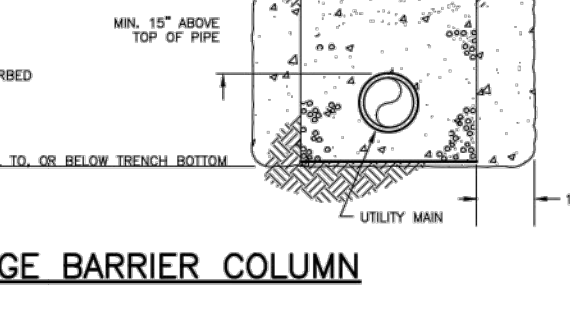
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SD-1
1
REV. DEC. 2006



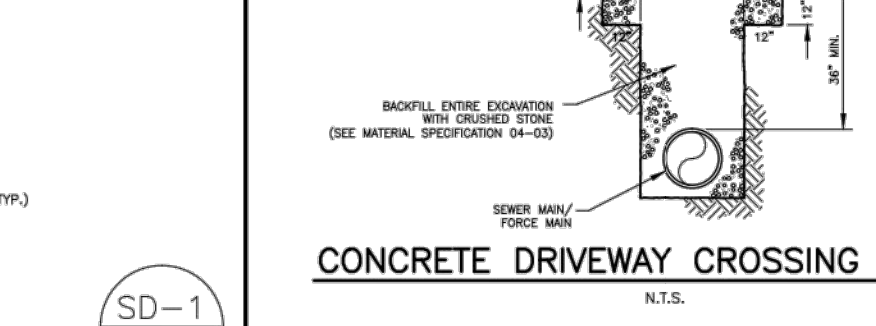
ANTI-SEEPAGE BARRIER COLUMN

SD-1
11



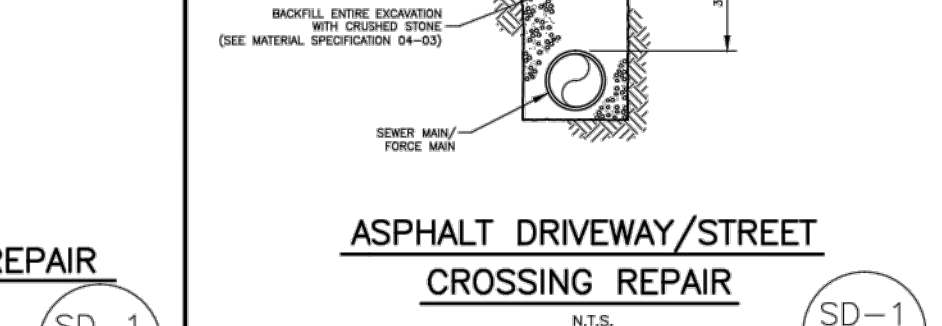
GREENHOLE/BLOCK OUT FOR FUTURE EXTENSION

SD-1
7



4"-12" SEWER FORCE MAIN PLUG VALVE DETAIL

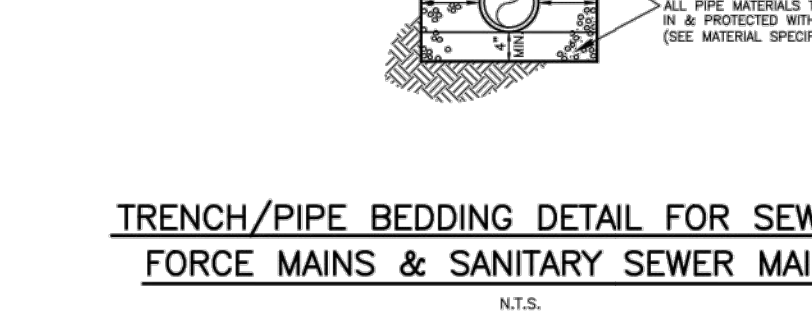
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8



PARALLEL SEWER FORCE MAIN & SANITARY SEWER MAIN

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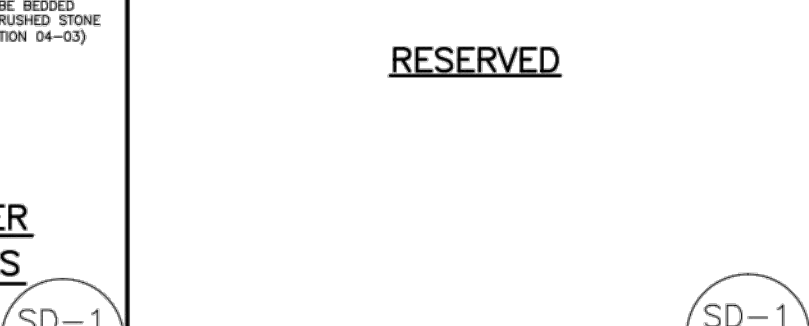
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SANITARY SEWER MANHOLE EXTENSION/SHORTENING DETAIL

N.T.S.

SD-1
10



MANHOLE ADJUSTMENT IN GREEN AREAS

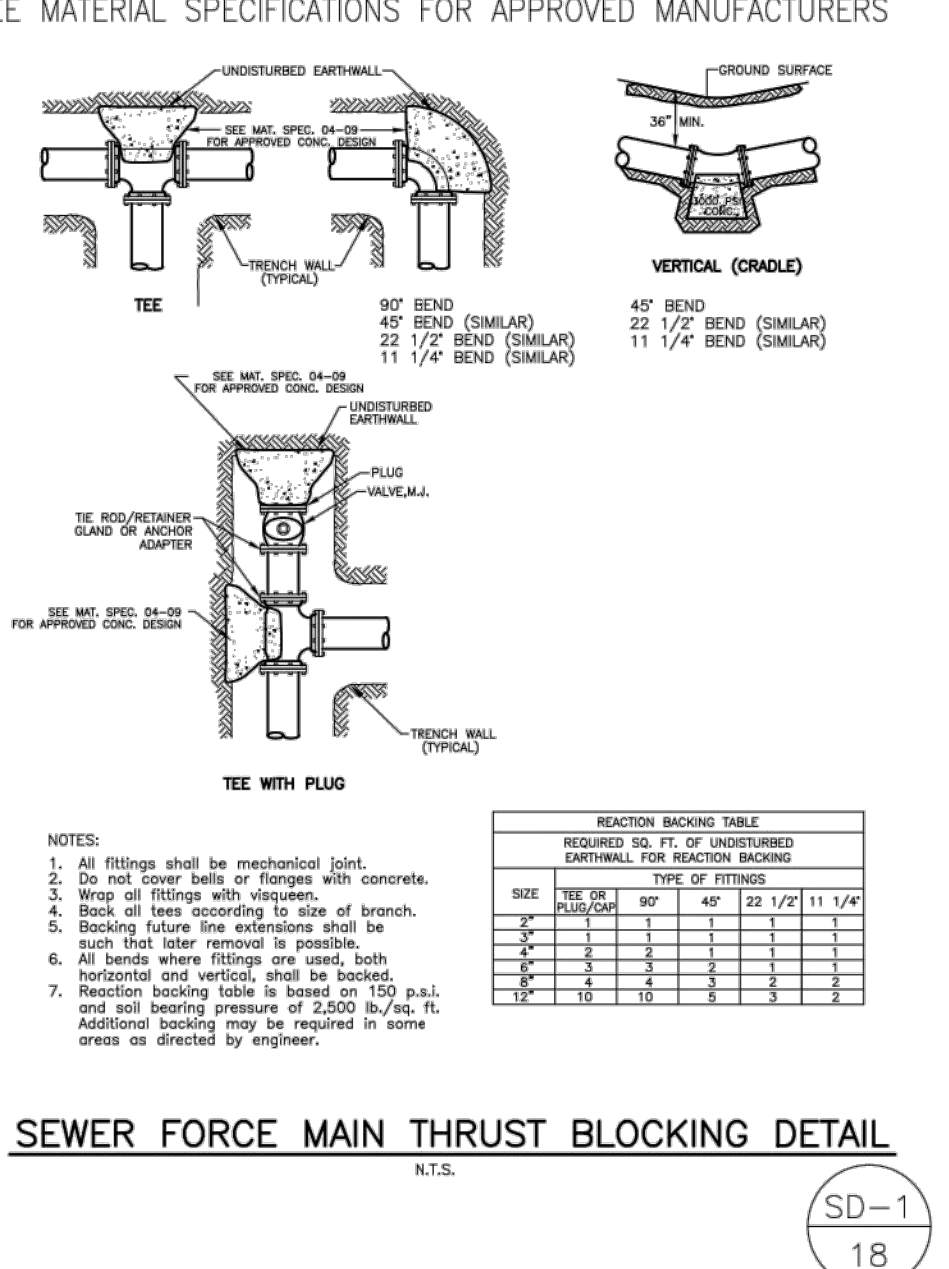
N.T.S.

SD-1
10B

GENERAL CONSTRUCTION NOTES:

- 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.
- 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.
- 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.
- 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.
- 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.
- 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 top any water utility main without approval. The contractor shall bear the cost and consequence of any disruption of utility operation caused by construction.

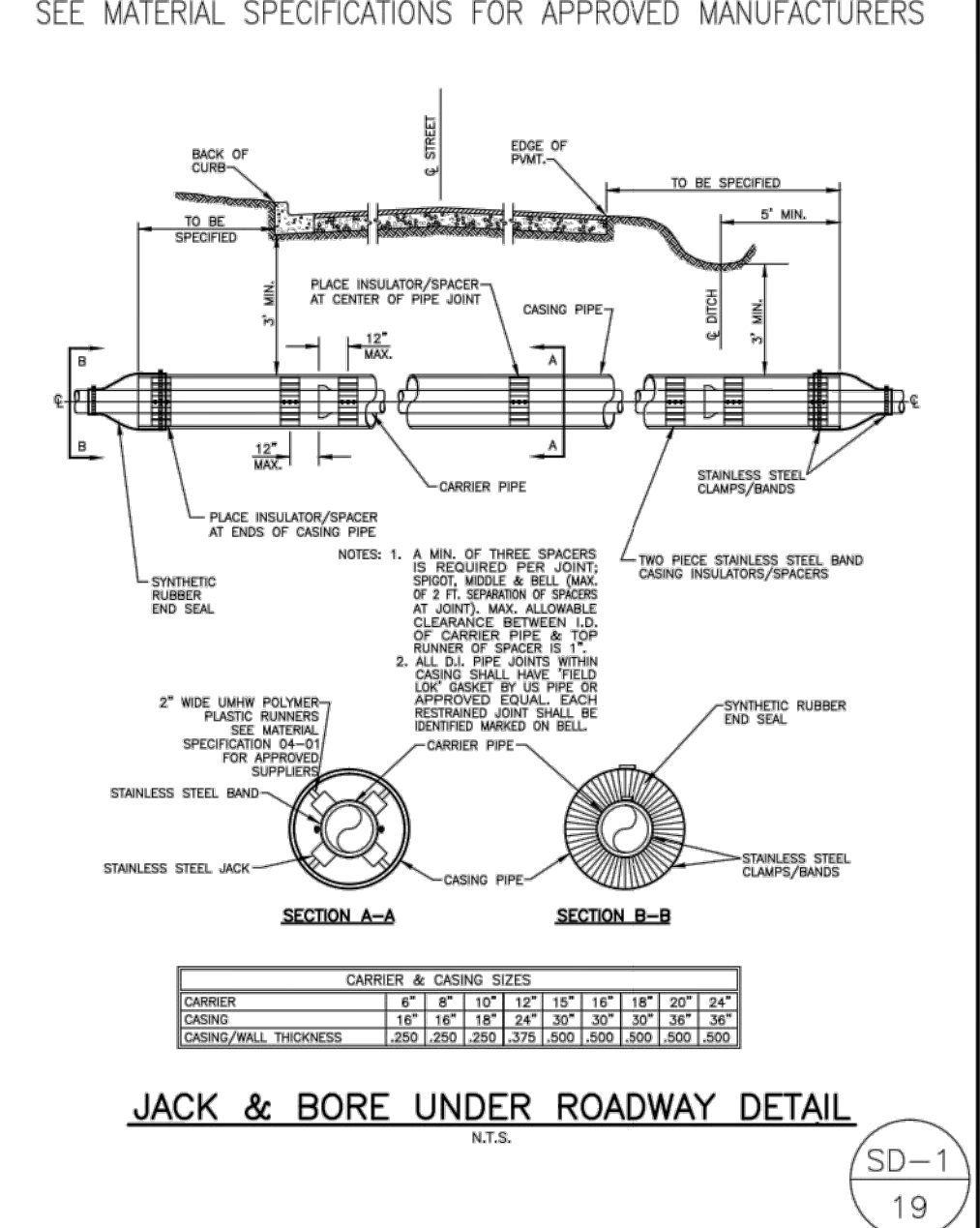
SD-1
17



SEWER FORCE MAIN THRUST BLOCKING DETAIL

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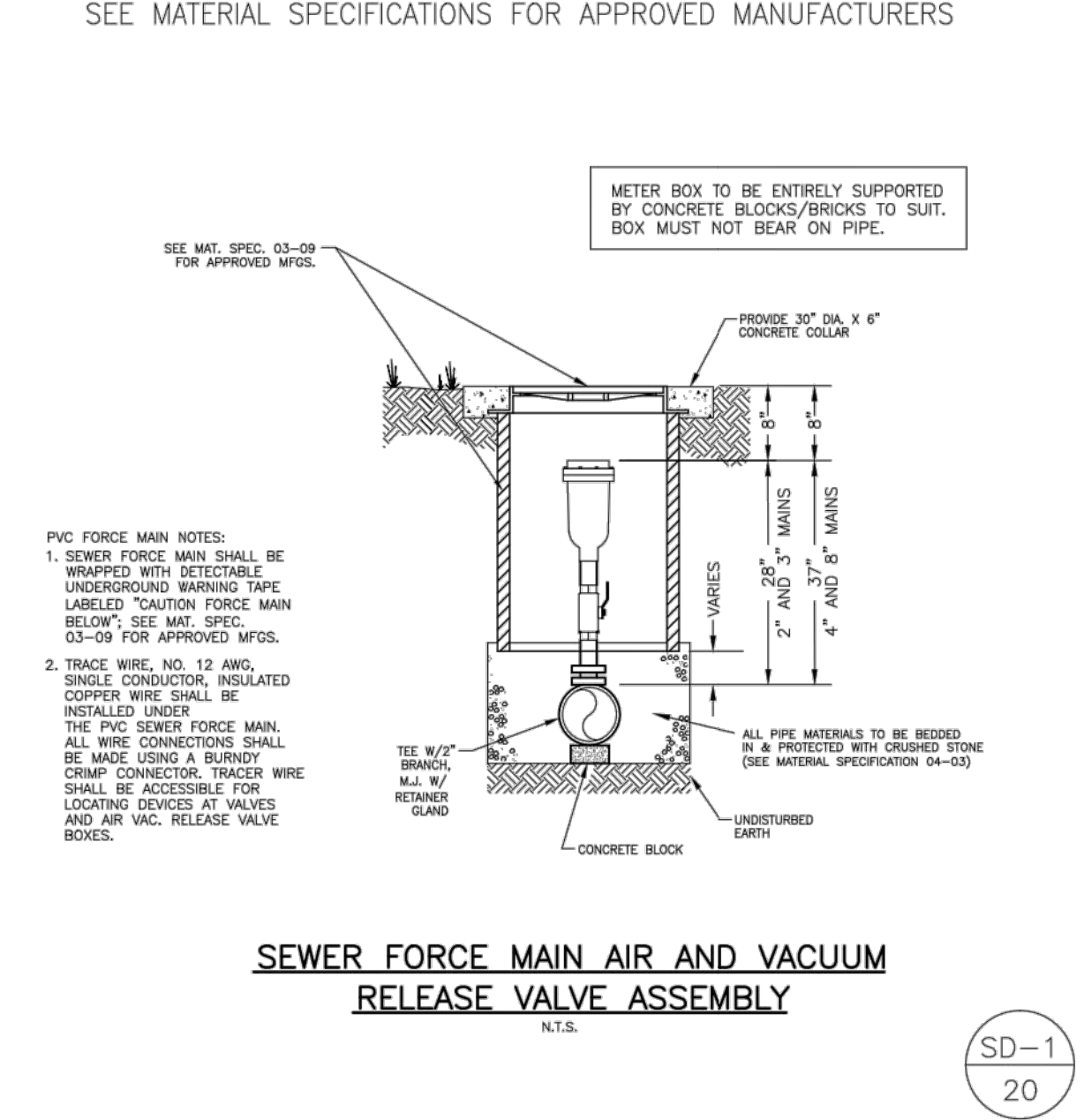
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18



JACK & BORE UNDER ROADWAY DETAIL

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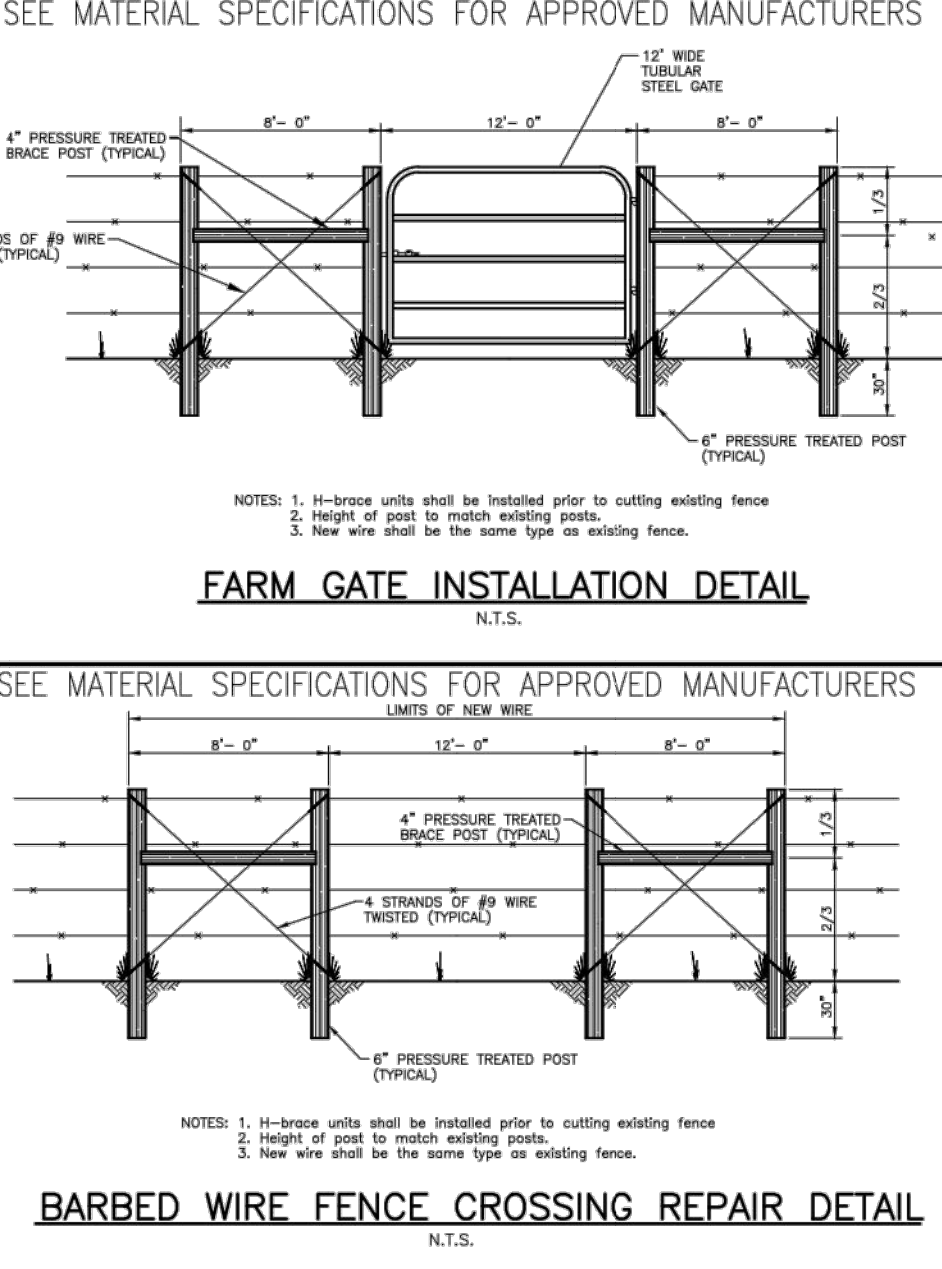
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19



SEWER FORCE MAIN AIR AND VACUUM RELEASE VALVE ASSEMBLY

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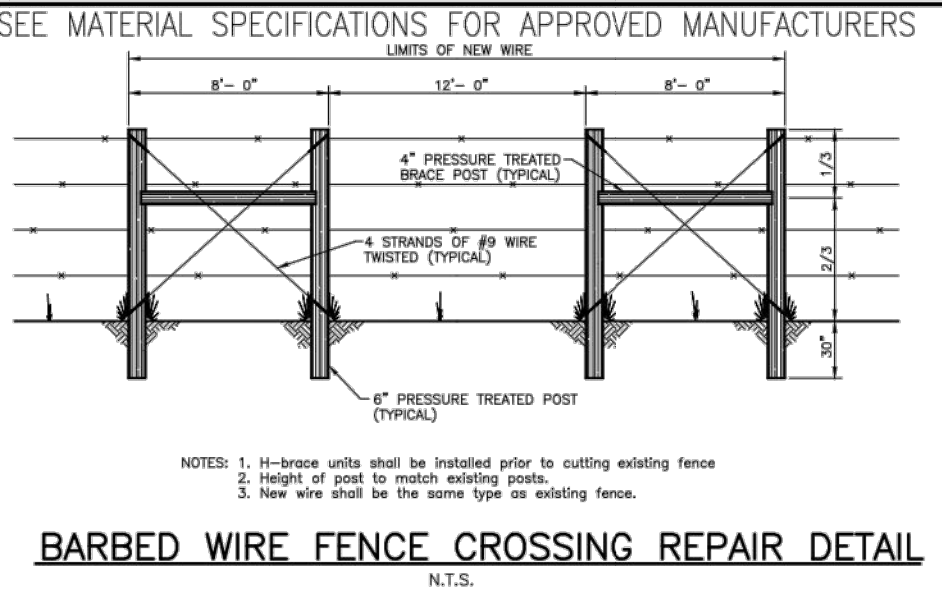
SD-1
20



FARM GATE INSTALLATION DETAIL

N.T.S.

SD-1
21



BARBED WIRE FENCE CROSSING REPAIR DETAIL

N.T.S.

SD-1
22

RESERVED

SD-1
23

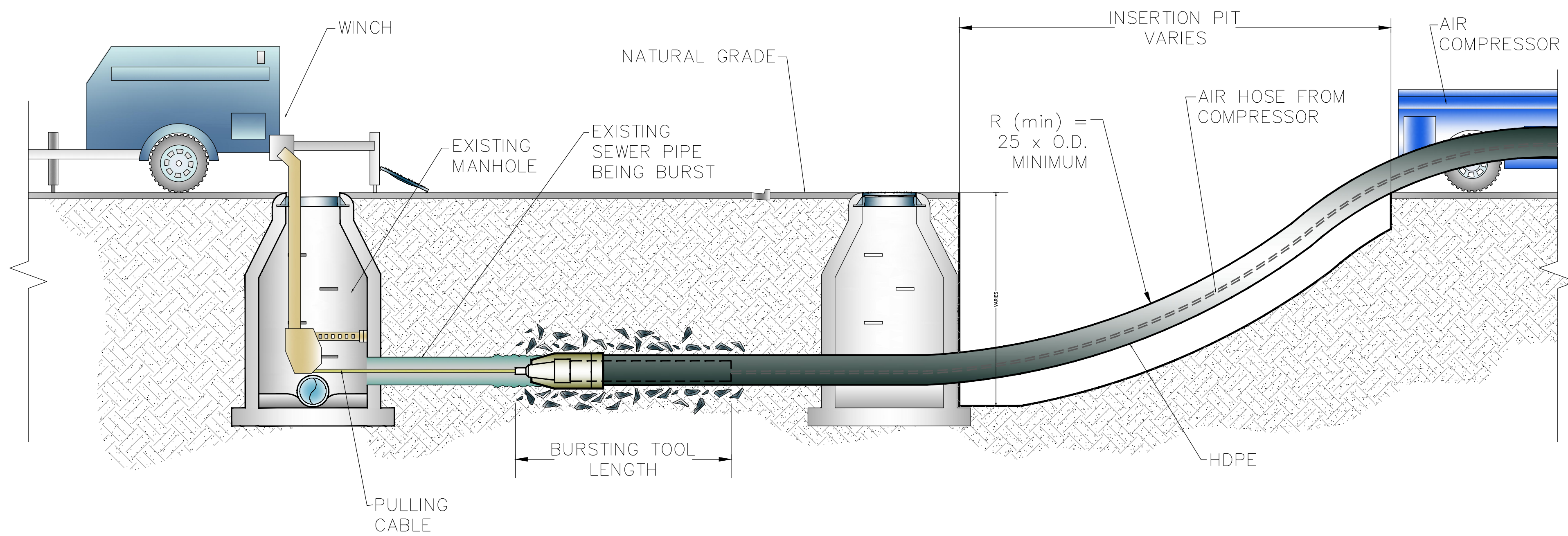
SEWER DETAILS

REVISED 05/08/2012

RWU ROGERS WATER UTILITIES

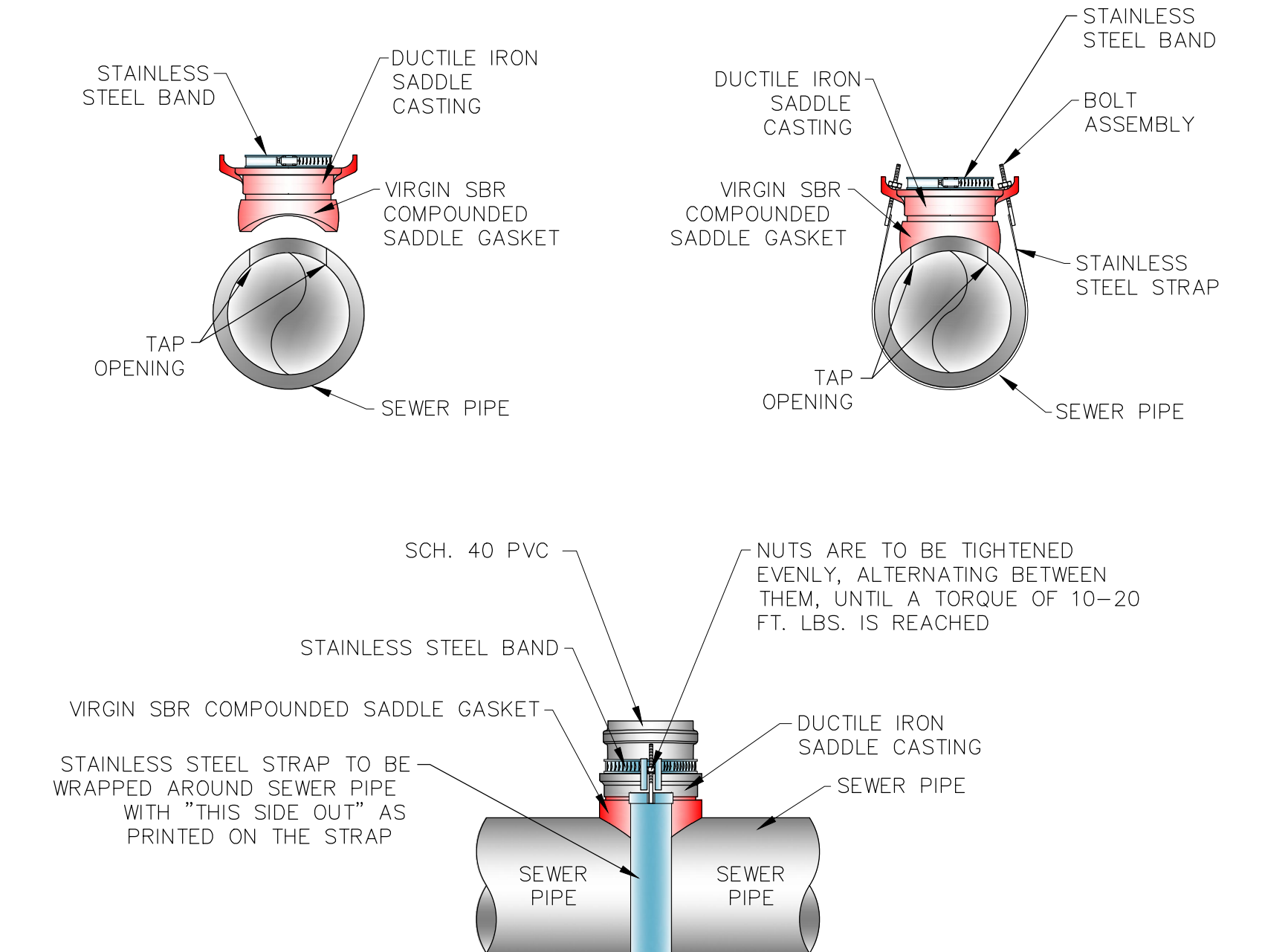
P.D. DRAWER 338
OFFICE - 601 SOUTH 2ND ROGERS, ARKANSAS
72751-0338

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

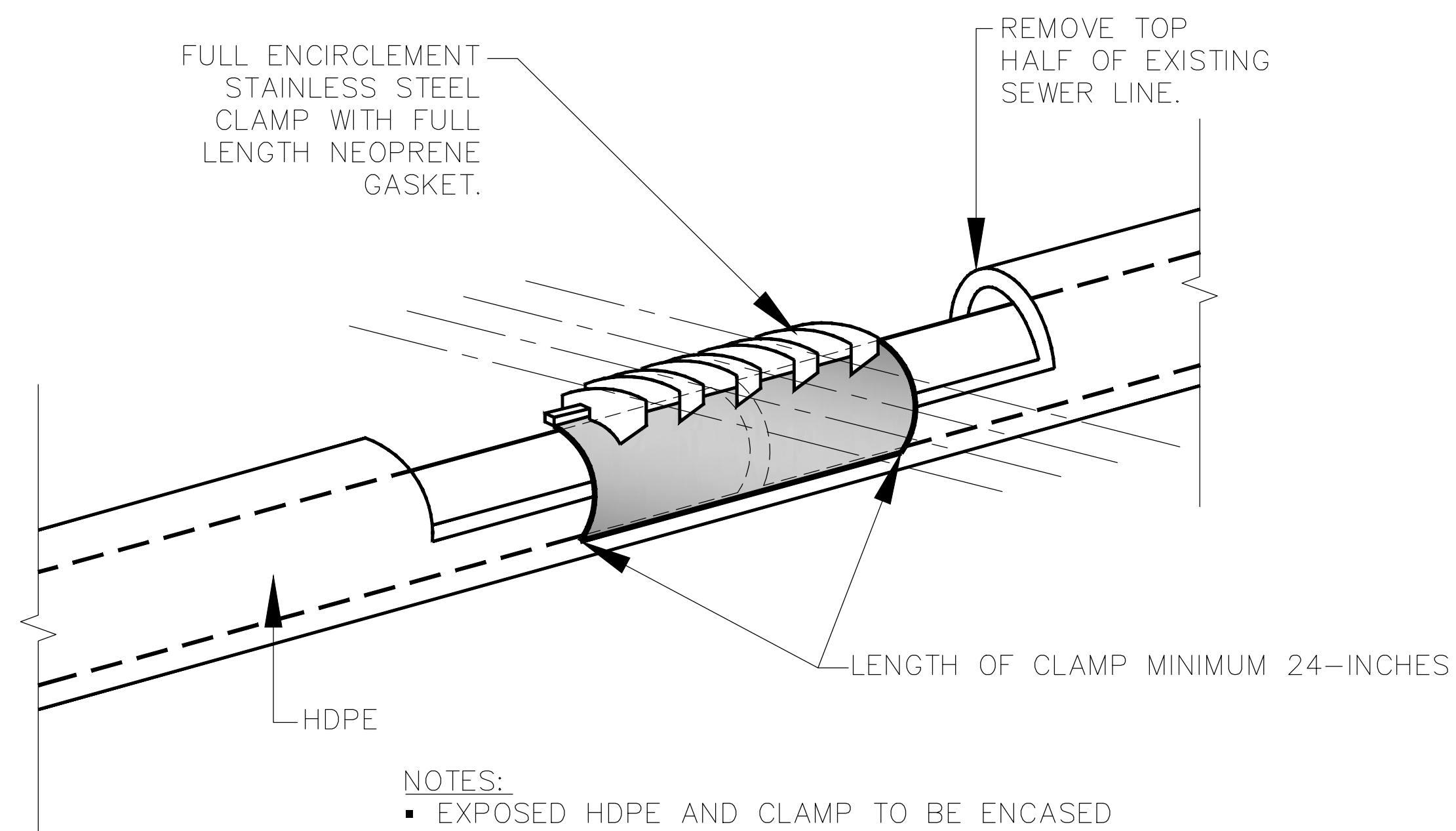


TYPICAL PIPE BURSTING OPERATION LAYOUT

- THE TOOL MUST BE LAUNCHED LEVEL.
- THE BOTTOM LENGTH OF THE INSERTION PIT – *BEFORE SLOPING UP TO THE NATURAL GRADE* – SHALL BE 2 TIMES THE LENGTH OF THE BURSTING TOOL, OR 12 TIMES THE PIPE DIAMETER, WHICHEVER IS GREATER.

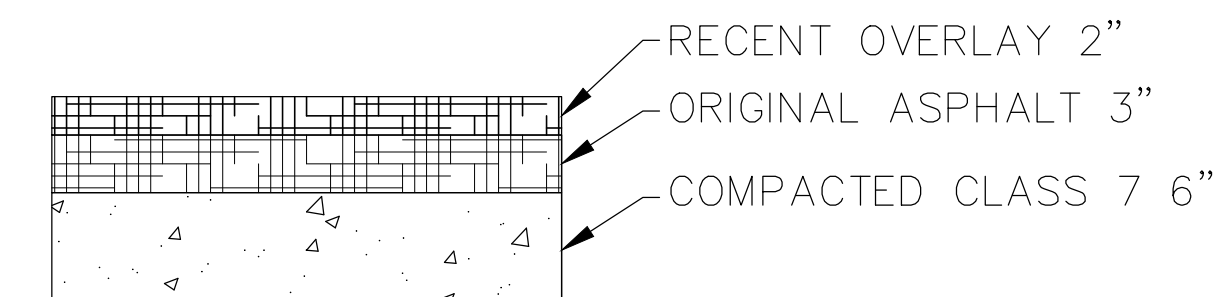


SEWER SERVICE SADDLE



- NOTES:
- EXPOSED HDPE AND CLAMP TO BE ENCASED WITH A 6" MINIMUM OF CLASS 'B' CONCRETE.
 - JOINING THE TERMINAL ENDS OF THE HDPE TOGETHER IN THE TWO DIRECTION INSERTION PIT WITH MAXIMUM 1/2" GAP.

HDPE SPLICE DETAIL



CART PATH



TEMPORARY CART PATH

*OTHER ALTERNATIVES MAY BE APPROVED BY THE GOLF COURSE.



| REV. | COMMENTS | BY | DATE |
|------|----------|----|------|
| 1 | | | |
| 2 | | | |
| 3 | | | |
| 4 | | | |

MISCELLANEOUS DETAILS
PINNACLE COUNTRY CLUB
SEWER IMPROVEMENTS
ROGERS WATER UTILITIES
CITY OF ROGERS, ARKANSAS

rjngroup R/J/N GROUP, INC.
 4170 WEST MLK BLVD., STE. 907
 FAYETTEVILLE, AR 72704

| DESIGN | DRAWN | QA/QC | DATE | SCALE | PROJECT NO. | SHEET |
|--------|-------|-------|----------------|--------|-------------|----------|
| SWJ | PRR | MDH | September 2021 | N.T.S. | 30-3616-00 | D1 OF 25 |

04/AR/2021/09/13/2021 - PINNACLE GOLF COURSE SANITARY REPAIRS - CADDIS - SHEETS/GENERAL SHEETS/DETAILS - LEWIS/DWG