

CONSTRUCTION PLANS  
FOR  
VILLARET COMMONS  
SANITARY SEWER PLANS  
SAN ANTONIO, TEXAS

PROJECT ADDRESS:

1507-1527 W. VILLARET BLVD  
SAN ANTONIO, TX 78224

OWNER/APPLICANT:

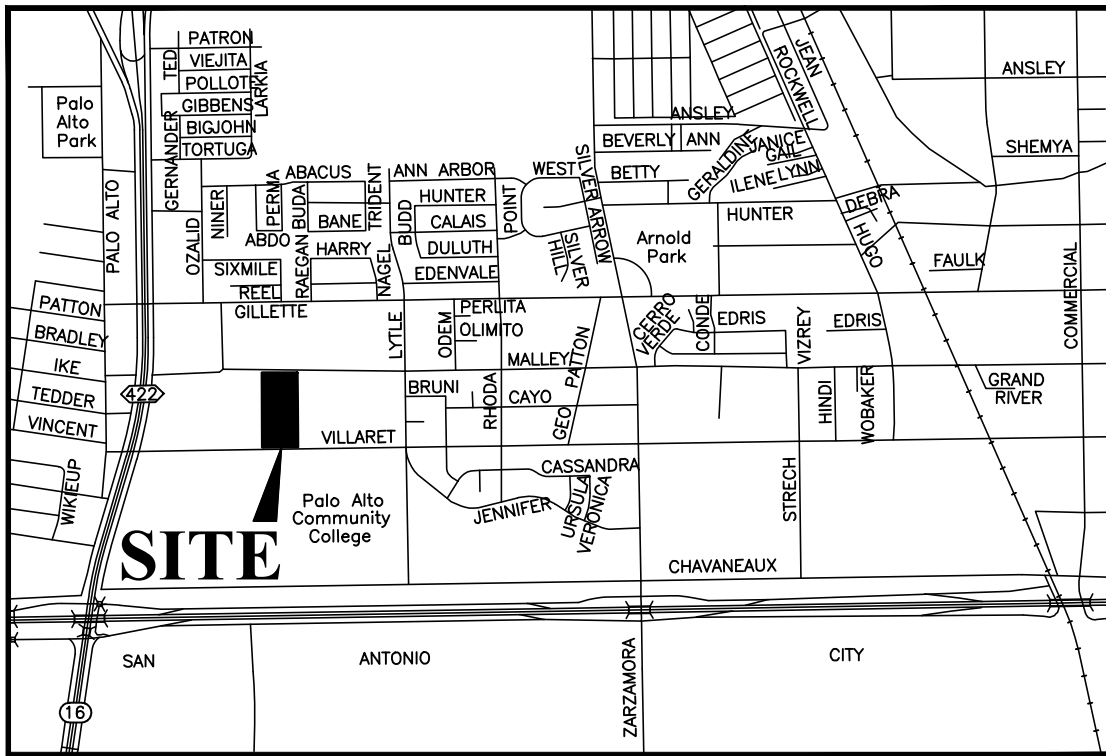
ONWARD DEVELOPMENT, LLC  
CONTACT: GERARDO CERVANTES  
ITS MANAGING MEMBER  
13219 TROTGING PATH  
SAN ANTONIO, TX 78023  
PH: (630) 776-8844

CIVIL ENGINEER:

ADA CONSULTING GROUP, INC.  
CONTACT: DONALD OROIAN, P.E.  
221 W. RHAPSODY, SUITE 102  
SAN ANTONIO, TEXAS 78216  
TEL: (210) 340-5670  
FAX: (210) 340-5728  
EMAIL: donald@adacg.com  
TBPELS REGISTERED FIRM NO. F-3512

SURVEYOR:

ACS SURVEYING, INC.  
T.B.P.L.S. FIRM 10194406  
15315 SAN PEDRO AVE.  
SAN ANTONIO, TX 78232  
(210) 494-6405 OFFICE  
(210) 494-9840 FAX  
ACS PROJECT No. 2021-008



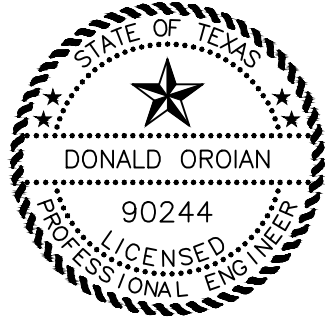
LOCATION MAP

NOT TO SCALE

SHEET INDEX

| CIVIL |                                 |
|-------|---------------------------------|
| SS0   | COVER SHEET                     |
| SS1   | SEWER PLAN - OVERALL            |
| SS2   | SEWER PLAN AND PROFILE LINE - A |
| SS3   | SEWER PLAN AND PROFILE LINE - B |
| SS4   | SEWER SERVICE PLAN              |
| SS5   | SEWER PLAN DETAILS              |

TBPELS FIRM# F-3512



*Donald Oroian*  
03-04-2025

ESTIMATED SANITARY SEWER QUANTITIES

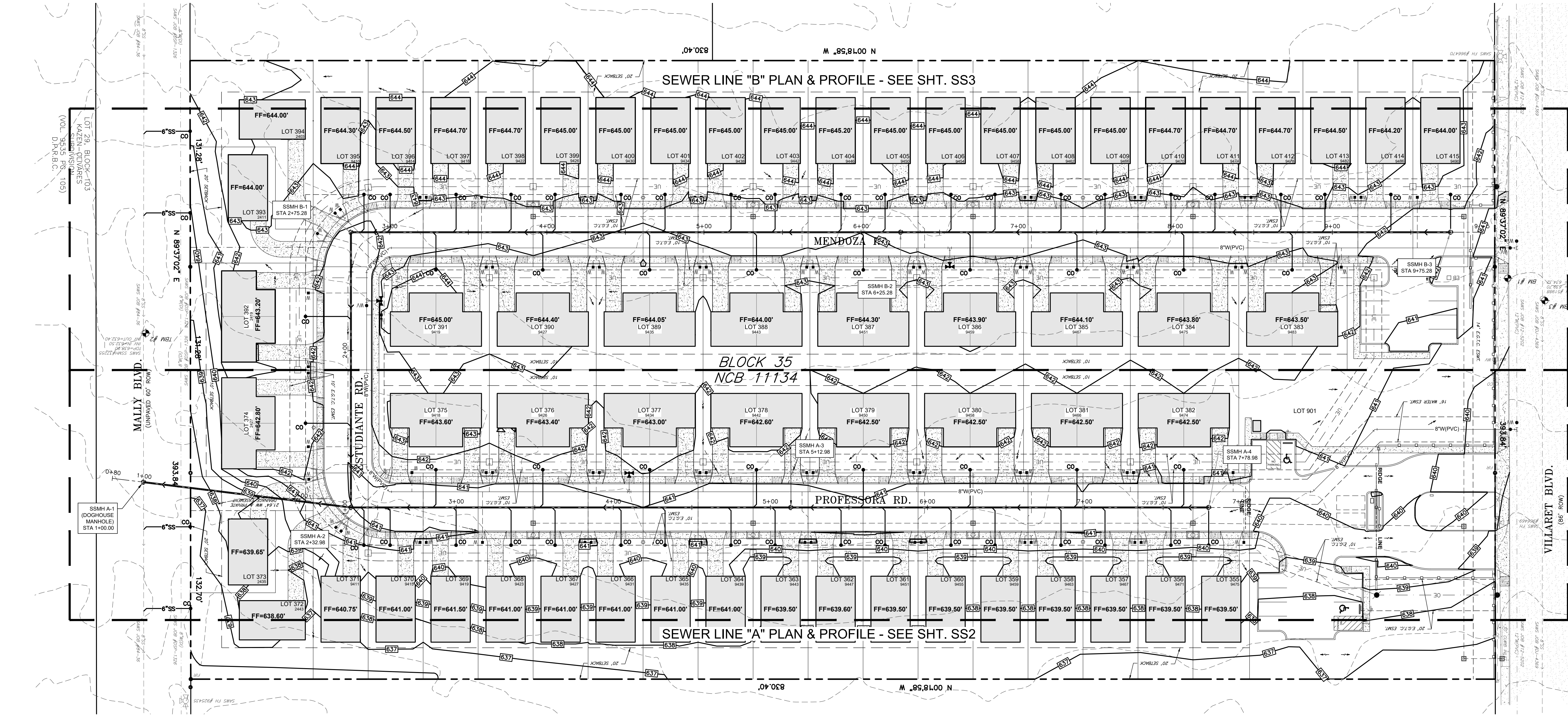
| ITEM | DESCRIPTION                           | UNIT | QUANTITY |
|------|---------------------------------------|------|----------|
| 1    | 8" SANITARY SEWER LINE (SDR-26 D3034) | LF   | 1,510    |
| 2    | 8" SANITARY SEWER LINE (SDR-26 D2241) | LF   | 20       |
| 3    | SANITARY SEWER MANHOLE - STANDARD     | EACH | 6        |
| 4    | SANITARY SEWER MANHOLE - "DOGHOUSE"   | EACH | 1        |
| 5    | 6" SANITARY SEWER LATERALS (D3034)    | LF   | 1,090    |
| 6    | 6" SANITARY SEWER LATERALS (D2241)    | LF   | 408      |
| 7    | 6" CLEANOUTS                          | EACH | 61       |
| 8    | TRENCH PROTECTION                     | LF   | 1,530    |
| 9    | VACUUM TEST                           | EACH | 7        |

LOWER - CENTRAL SEWERSHED - DOS RIOS/LEON CREEK

|                               |                         |
|-------------------------------|-------------------------|
| Developer's Name:             | ONWARD DEVELOPMENT, LLC |
| Developer's Address:          | 13219 TROTGING PATH     |
| City/State/Zip:               | HELOTES, TX 78023       |
| Phone #                       | (210) 445-1384          |
| SAWS Block Map #              | 150-544                 |
| Total EDU'S                   | 61 (SS)                 |
| Total Acreage                 | 2.508 Ac                |
| Total Linear Footage of Pipe: | 1530 LF - 8" (SEWER)    |
| Plot No.                      | 24-11800363             |
| Number of Lots:               | 61                      |
| SAWS JOB NO.                  | 24-1614                 |



SCALE: 1" = 30 FT



## BENCHMARK

BENCHMARK #1: CHISELED SQUARE  
ELEV. = 639.95'

TEMPORARY BM #1: SAWS SSMH #51987  
ELEV. = 632.90'

TEMPORARY BM #2: SAWS SSMH #57255  
ELEV. = 638.90'

TEMPORARY BM #3: SAWS SSMH #51988  
ELEV. = 639.70'

NOTE:  
NOTED BM'S (BENCHMARKS) ON THESE PLANS ARE BASED ON SURVEY INFORMATION PROVIDED TO ENGINEER. CONTRACTOR TO FIELD VERIFY ACCURACY OF ANY NOTED/SUGGESTED BM'S PRIOR TO CONSTRUCTION. IF DESIRED, REQUESTED ADDITIONAL BM'S SHALL BE COORDINATED WITH LISTED PROJECT SURVEYOR AS A SEPARATE PAY ITEM.

## LEGAL DESCRIPTION

BEING A TOTAL OF 7.508 ACRES OF LAND PLATTED AS A PORTION OF LOT 338, MAYFIELD PARK, RECORDED IN VOLUME 980, PAGES 94-95, DEED AND PLAT RECORDS OF BEXAR COUNTY, TEXAS, AND ALL OF LOT 338-A, MAYFIELD PARK, RECORDED IN VOLUME 7500, PAGE 159, DEED AND PLAT RECORDS OF BEXAR COUNTY, TEXAS.

PROPOSED LOTS 355-415, AND LOT 901  
BLOCK 35, NCB 11134  
VILLARET COMMONS  
PLAT ID# 24-11800363

## ESTIMATED SANITARY SEWER QUANTITIES

| ITEM | DESCRIPTION                           | UNIT | QUANTITY |
|------|---------------------------------------|------|----------|
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| 7    | 6" CLEANOUTS                          | EACH | 61       |
| 8    | TRENCH PROTECTION                     | LF   | 1,530    |
| 9    | VACUUM TEST                           | EACH | 1        |

LOWER - CENTRAL SEWERSHED - DOS RIOS/LEON CREEK

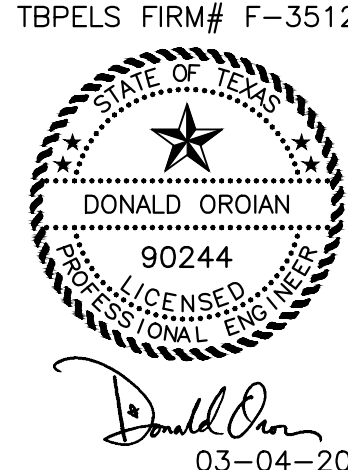
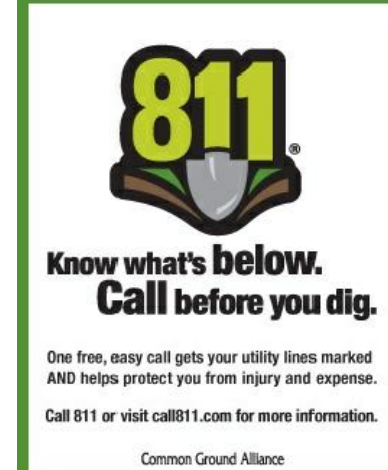
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| Developer's Address:                               | 13219 TROTTER PATH      |
| City/State/Zip:                                    | HELOTES, TX 78023       |
| Phone # (210) 445-1384                             |                         |
| SAWS Block Map # 150-544                           | Total EDU'S 61 (SS)     |
|                                                    | Total Acreage 7.508 Ac  |
| Total Linear Footage of Pipe: 1530 LF - 8" (SEWER) | Plot No. 24-11800363    |
| Number of Lots: 61                                 | SAWS JOB NO. 24-1614    |

## LEGEND

|     |                                                                         |
|-----|-------------------------------------------------------------------------|
| --- | PROPERTY LINE                                                           |
| --- | EXISTING CONTOUR LINE (IN FEET)                                         |
| --- | EXISTING SPOT ELEVATION (IN FEET)                                       |
| --- | EXISTING CONC. CURB                                                     |
| --- | EXISTING SANITARY SEWER LINE (MATERIAL)                                 |
| --- | EXISTING WATER LINE (MATERIAL)                                          |
| --- | EXISTING OVERHEAD/UNDERGROUND ELECTRIC                                  |
| --- | EXISTING/PROPOSED FIRE HYDRANT                                          |
| --- | EXISTING/PROPOSED UTILITY POLE                                          |
| --- | EXISTING/PROPOSED WATER VALVE                                           |
| --- | EXISTING/PROPOSED WATER METER                                           |
| --- | EXISTING/PROPOSED CLEAN OUT                                             |
| --- | EXISTING/PROPOSED SEWER MANHOLE                                         |
| --- | EXISTING CONCRETE/ASPHALT                                               |
| --- | PROPOSED CONCRETE/ASPHALT                                               |
| --- | PROPOSED FENCE                                                          |
| --- | PROPOSED WATER LINE (MATERIAL)                                          |
| --- | PROPOSED SANITARY SEWER (8" PVC)                                        |
| --- | PROPOSED OVERHEAD (OE) OR UNDERGROUND (UE) ELECTRIC, PHONE, CABLE, DATA |
| --- | PROPOSED PAD MOUNTED TRANSFORMER                                        |
| --- | PROPOSED STORM PIPE                                                     |
| --- | PROPOSED STREET LIGHT                                                   |

## TRENCH EXCAVATION SAFETY PROTECTION:

CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/GEOTECHNICAL/SAFETY/EQUIPMENT CONSULTANT SHALL REVIEW THESE PLANS AND AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITE(S) WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS, AND/OR PROCEDURES FOR THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR'S IMPLEMENTATION OF THESE SYSTEMS, PROGRAMS, AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLY WITH AS A MINIMUM, CURRENT O.S.H.A. STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OF SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH CURRENT O.S.H.A. STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.



| REVISION | DESCRIPTION                                              | DATE     |
|----------|----------------------------------------------------------|----------|
| 1        | UPDATE REFERENCES PER STREET & DRAINAGE REVISIONS        | 03-04-25 |
| 2        | ADJ LATERAL SLOPES AT LOTS 379-386                       | 01-07-25 |
| 3        | ADJ SEWER MAIN SLOPES TO 0.40% / ADDITIONAL LATERAL INFO | 10-16-24 |

**ADA CONSULTING GROUP, INC.**  
221 W. RHAPSODY, STE. 102 SAN ANTONIO, TX 78216  
(210) 340-5670 FAX: (210) 340-5728

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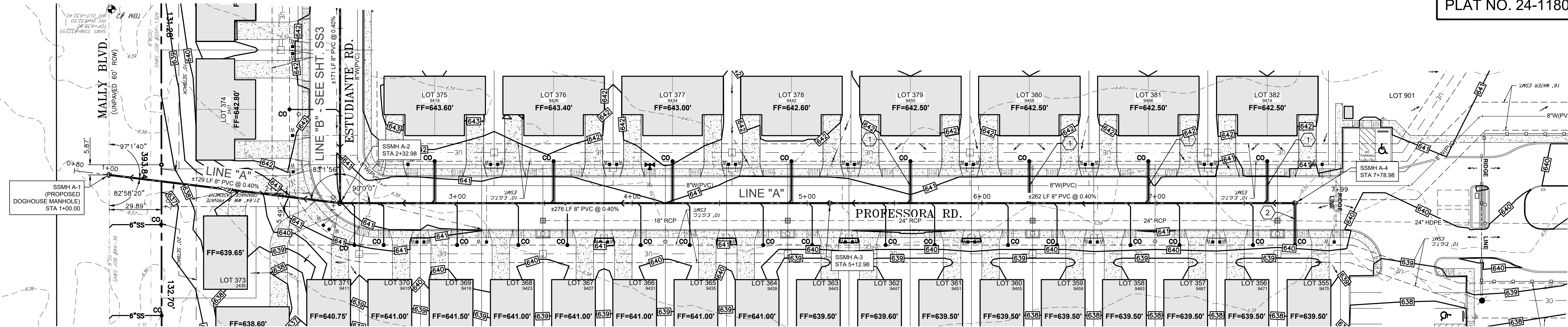
## SEWER PLAN - OVERALL

VILLARET COMMONS  
1507-1527 W. VILLARET BLVD.  
SAN ANTONIO, TX 78224

DRAWN/CHECK DATE: 10/04/2024  
BY: AL/DO  
JOB #: 806-02  
DWG NAME: 806-02 (SS1) SEWER PLAN OVERALL

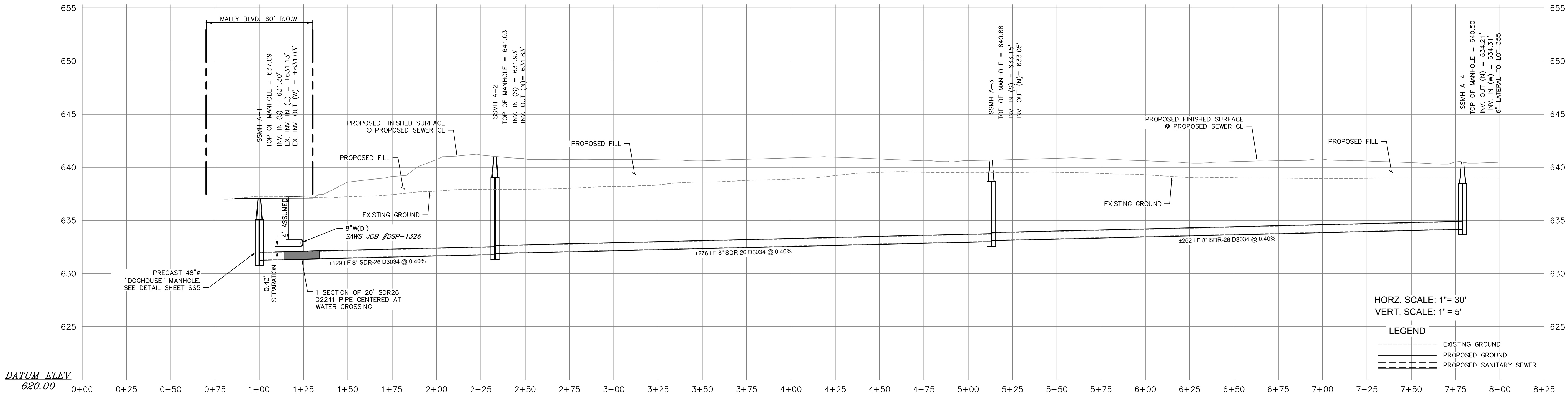
SHEET  
SS1





SEWER PLAN AND PROFILE LINE - A

SCALE: 1" = 30 FT  
0 15 30 60



DATUM ELEV 620.00

HORZ. SCALE: 1" = 30'  
VERT. SCALE: 1" = 5'

LEGEND  
 --- EXISTING GROUND  
 --- PROPOSED GROUND  
 --- PROPOSED SANITARY SEWER

| EX. GRADE<br>SEWER INV. | 0+00 | 0+25 | 0+50 | 0+75 | 1+00 | 1+25 | 1+50 | 1+75 | 2+00 | 2+25 | 2+50 | 2+75 | 3+00 | 3+25 | 3+50 | 3+75 | 4+00 | 4+25 | 4+50 | 4+75 | 5+00 | 5+25 | 5+50 | 5+75 | 6+00 | 6+25 | 6+50 | 6+75 | 7+00 | 7+25 | 7+50 | 7+75 | 8+00 | 8+25 |  |  |
|-------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|--|
|                         |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |  |  |
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|                         |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |  |  |
|                         |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |  |  |
|                         |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |  |  |

BENCHMARK

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|                                                    |                         |
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| SAWS Block Map #                                   | 150-544                 |
| Total EDU'S E1 (SS)                                |                         |
| Total Acreage                                      | 7.508 Ac                |
| Total Linear Footage of Pipe: 1530 LF - 8" (SEWER) |                         |
| Plot No.                                           | 24-11800363             |
| Number of Lots: 61                                 |                         |
| SAWS JOB NO.                                       | 24-1614                 |

LEGEND

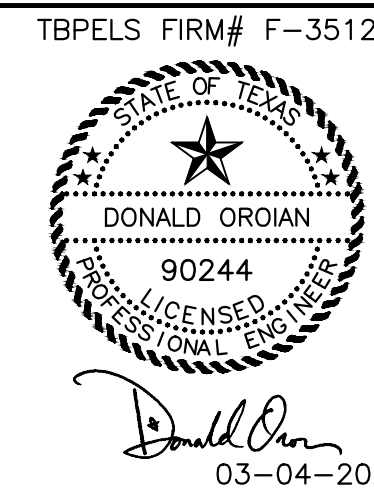
|     |                                                                                                                 |
|-----|-----------------------------------------------------------------------------------------------------------------|
| --- | PROPERTY LINE                                                                                                   |
| --- | EXISTING CONTOUR LINE - IN FEET                                                                                 |
| --- | EXISTING SPOT ELEVATION (N FEET)                                                                                |
| --- | EXISTING CONC. CURB                                                                                             |
| --- | EXISTING SANITARY SEWER LINE (MATERIAL)                                                                         |
| --- | EXISTING WATER LINE (MATERIAL)                                                                                  |
| --- | EXISTING OVERHEAD/UNDERGROUND ELECTRIC                                                                          |
| --- | EXISTING/PROPOSED FIRE HYDRANT                                                                                  |
| --- | EXISTING/PROPOSED UTILITY POLE                                                                                  |
| --- | EXISTING/PROPOSED WATER VALVE                                                                                   |
| --- | EXISTING/PROPOSED WATER METER                                                                                   |
| --- | EXISTING/PROPOSED CLEAN OUT                                                                                     |
| --- | EXISTING/PROPOSED SEWER MANHOLE                                                                                 |
| --- | EXISTING CONCRETE/ASPHALT                                                                                       |
| --- | PROPOSED CONCRETE/ASPHALT                                                                                       |
| --- | PROPOSED FENCE                                                                                                  |
| --- | PROPOSED WATER LINE (MATERIAL)                                                                                  |
| --- | PROPOSED SANITARY SEWER (8" PVC)                                                                                |
| --- | PROPOSED OVERHEAD (OE) OR UNDERGROUND (UG) ELECTRIC, PHONE, CABLE, DATA                                         |
| --- | PROPOSED PAD MOUNTED TRANSFORMER                                                                                |
| --- | PROPOSED STORM PIPE                                                                                             |
| --- | PROPOSED STREET LIGHT                                                                                           |
| --- | 6" SEWER LATERAL (SDR-26 D3034) INSTALLED AT 2% SLOPE                                                           |
| --- | 6" SEWER LATERAL (SDR-26 D2241) (PRESSURE RATED) INSTALLED AT 1% SLOPE TO LOTS 355, 379-386, 2% SLOPE ELSEWHERE |

TRENCH EXCAVATION SAFETY PROTECTION:

CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/GEOTECHNICAL/SAFETY/EQUIPMENT CONSULTANT SHALL REVIEW THESE PLANS AND AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITE(S) WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS, AND/OR PROCEDURES FOR THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR'S IMPLEMENTATION OF THESE SYSTEMS, PROGRAMS, AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLY WITH AS A MINIMUM, CURRENT O.S.H.A. STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OF SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH CURRENT O.S.H.A. STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.

KEY NOTE LIST: #

- 6" SEWER LATERAL/8" WATER PVC CROSSING FOR SEWER LATERALS SERVICING LOTS 379-382. AT THESE SERVICE LOCATIONS, SEWER LATERAL PIPE SHALL BE SDR-26 D2241 (160 PSI HIGH PRESSURE PIPE) AND INSTALLED AT 1.0% SLOPE TO CLEAN OUT. ENSURE LATERALS ARE SEPARATED 6" MIN BELOW 8" WATER PVC PIPE TO MEET 30 TAC 290.44(a)(4)(b)(v). SEE SAWS WATER JOB 24-1143 FOR WATER MAIN ELEVATION INSTALLATION ADJUSTMENT NOTATIONS TO ENSURE 6" OF SEPARATION BETWEEN SEWER LATERALS AND WATER MAIN.
- 6" SEWER LATERAL/24" HOPE STORM SEWER PIPE CROSSING FOR SEWER LATERAL SERVICING LOT 355. AT THIS SERVICE LOCATION, SEWER LATERAL PIPE SHALL BE SDR-26 D2241 (160 PSI HIGH PRESSURE PIPE) AND INSTALLED AT 1.0% SLOPE TO CLEAN OUT.



| REVISION | DESCRIPTION                                              | DATE     |
|----------|----------------------------------------------------------|----------|
| 1        | UPDATE REFERENCES PER STREET & DRAINAGE REVISIONS        | 03-04-25 |
| 2        | ADJ LATERAL SLOPES AT LOTS 379-386                       | 01-07-25 |
| 3        | ADJ SEWER MAIN SLOPES TO 0.40% / ADDITIONAL LATERAL INFO | 10-16-24 |

**ADA CONSULTING GROUP, INC.**  
 221 W. RHAPSODY, STE. 102 SAN ANTONIO, TX 78216  
 (210) 340-5670 FAX: (210) 340-5728

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SEWER PLAN AND PROFILE  
LINE - A

VILLARET COMMONS  
1507-1527 W. VILLARET BLVD.  
SAN ANTONIO, TX 78224

DRAWN/CHECK DATE: 10/04/2024  
BY: AL/DO  
JOB #: 806-02  
DWG NAME: 806-02 (SS2) SEWER PLAN & PROFILE

SHEET

SS2



X:\CLIENTS\B0602\SEWER\06-07 (SS2) SEWER PLAN & PROFILE.DWG

## BENCHMARK

BENCHMARK #1: CHISELED SQUARE  
ELEV. = 639.95'

TEMPORARY BM #1: SAWS SSMH #51987  
ELEV. = 632.90'

TEMPORARY BM #2: SAWS SSMH #537255  
ELEV. = 638.90'

TEMPORARY BM #3: SAWS SSMH #51988  
ELEV. = 639.70'

NOTE:  
NOTED BM'S (BENCHMARKS) ON THESE PLANS ARE BASED ON SURVEY INFORMATION PROVIDED TO ENGINEER. CONTRACTOR TO FIELD VERIFY ACCURACY OF ANY NOTED/SUGGESTED BM'S PRIOR TO CONSTRUCTION. IF DESIRED, REQUESTED ADDITIONAL BM'S SHALL BE COORDINATED WITH LISTED PROJECT SURVEYOR AS A SEPARATE PAY ITEM.

## LEGAL DESCRIPTION

BEING A TOTAL OF 7.508 ACRES OF LAND PLATTED AS A PORTION OF LOT 338, MAYFIELD PARK, RECORDED IN VOLUME 980, PAGES 94-95, DEED AND PLAT RECORDS OF BEXAR COUNTY, TEXAS, AND ALL OF LOT 338-A, MAYFIELD PARK, RECORDED IN VOLUME 7500, PAGE 159, DEED AND PLAT RECORDS OF BEXAR COUNTY, TEXAS.

PROPOSED LOTS 355-415, AND LOT 901  
BLOCK 35, NCB 11134  
VILLARET COMMONS  
PLAT ID# 24-11800363

### ESTIMATED SANITARY SEWER QUANTITIES

| ITEM | DESCRIPTION                           | UNIT | QUANTITY |
|------|---------------------------------------|------|----------|
| 1    | 8" SANITARY SEWER LINE (SDR-26 D3034) | LF   | 1,510    |
| 2    | 8" SANITARY SEWER MANHOLE - STANDARD  | EACH | 20       |
| 3    | SANITARY SEWER MANHOLE - "DOGHOUSE"   | EACH | 6        |
| 4    | 6" SANITARY SEWER LATERALS (D3034)    | LF   | 1,090    |
| 5    | 6" SANITARY SEWER LATERALS (D2241)    | LF   | 408      |
| 6    | 6" CLEANOUTS                          | EACH | 61       |
| 7    | TRENCH PROTECTION                     | LF   | 1,530    |
| 8    | VACUUM TEST                           | EACH | 1        |

LOWER - CENTRAL SEWERSHED - DOS RIOS/LEON CREEK

|                               |                         |                     |                        |
|-------------------------------|-------------------------|---------------------|------------------------|
| Developer's Name:             | ONWARD DEVELOPMENT, LLC |                     |                        |
| Developer's Address:          | 13219 TROTING PATH      |                     |                        |
| City/State/Zip:               | HELOTES, TX 78023       |                     |                        |
| Phone #                       | (210) 445-1384          |                     |                        |
| SAWS Block Map #              | 150-544                 | Total EDU'S 61 (SS) | Total Acreage 7.508 Ac |
| Total Linear Footage of Pipe: | 1,530 LF - 8" (SEWER)   | Plot No.            | 24-11800363            |
| Number of Lots:               | 61                      | SAWS JOB NO.        | 24-1614                |

## LEGEND

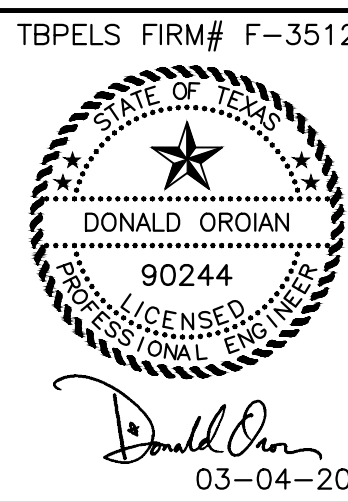
|     |                                                                                 |
|-----|---------------------------------------------------------------------------------|
| --- | PROPERTY LINE                                                                   |
| --- | EXISTING CONTOUR LINE (IN FEET)                                                 |
| --- | EXISTING SPOT ELEVATION (IN FEET)                                               |
| --- | EXISTING CONC. CURB                                                             |
| --- | EXISTING SANITARY SEWER LINE (MATERIAL)                                         |
| --- | EXISTING WATER LINE (MATERIAL)                                                  |
| --- | EXISTING OVERHEAD/UNDERGROUND ELECTRIC                                          |
| --- | EXISTING/PROPOSED FIRE HYDRANT                                                  |
| --- | EXISTING/PROPOSED UTILITY POLE                                                  |
| --- | EXISTING/PROPOSED WATER VALVE                                                   |
| --- | EXISTING/PROPOSED WATER METER                                                   |
| --- | EXISTING/PROPOSED CLEAN OUT                                                     |
| --- | EXISTING/PROPOSED SEWER MANHOLE                                                 |
| --- | EXISTING CONCRETE/ASPHALT                                                       |
| --- | PROPOSED CONCRETE/ASPHALT                                                       |
| --- | PROPOSED FENCE                                                                  |
| --- | PROPOSED WATER LINE (MATERIAL)                                                  |
| --- | PROPOSED SANITARY SEWER (8" PVC)                                                |
| --- | PROPOSED OVERHEAD (OE) OR UNDERGROUND (UE) ELECTRIC, PHONE, CABLE, DATA         |
| --- | PROPOSED PAD MOUNTED TRANSFORMER                                                |
| --- | PROPOSED STORM PIPE                                                             |
| --- | PROPOSED STREET LIGHT                                                           |
| --- | 6" SEWER LATERAL (SDR-26 D3034)                                                 |
| --- | 6" SEWER LATERAL (SDR-26 D2241)                                                 |
| --- | (PRESSURE RATED) INSTALLED AT 1% SLOPE TO LOTS 355, 379-386, 2% SLOPE ELSEWHERE |

### TRENCH EXCAVATION SAFETY PROTECTION:

CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/GEOTECHNICAL/SAFETY/EQUIPMENT CONSULTANT SHALL REVIEW THESE PLANS AND AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITE(S) WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS, AND/OR PROCEDURES FOR THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR'S IMPLEMENTATION OF THESE SYSTEMS, PROGRAMS, AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLY WITH AS A MINIMUM, CURRENT O.S.H.A. STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OF SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH CURRENT O.S.H.A. STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.

### KEY NOTE LIST:

- 6" SEWER LATERAL/8" WATER PVC CROSSING FOR SEWER LATERALS SERVING LOTS 379-382. AT THESE SERVICE LOCATIONS, SEWER LATERAL PIPE SHALL BE SDR-26 D2241 (160 PSI HIGH PRESSURE PIPE) AND INSTALLED AT 1.0% SLOPE TO CLEAN OUT. ENSURE LATERALS ARE SEPARATED 6" MIN BELOW 8" WATER PVC PIPE TO MEET 30 TAC 290.44(c)(4)(B)(v). SEE SAWS WATER SCP JOB 24-1143 FOR WATER MAIN ELEVATION INSTALLATION ADJUSTMENT NOTATIONS TO ENSURE 6" OF SEPARATION BETWEEN SEWER LATERALS AND WATER MAIN.
- 6" SEWER LATERAL/24" STORM SEWER CROSSING FOR SEWER LATERAL SERVICE LOT 355. AT THESE SERVICE LOCATIONS, SEWER LATERAL PIPE SHALL BE SDR-26 D2241 (160 PSI HIGH PRESSURE PIPE) AND INSTALLED AT 1.0% SLOPE TO CLEAN OUT.



| REVISION | DESCRIPTION                                               | DATE     |
|----------|-----------------------------------------------------------|----------|
| ---      | UPDATE REFERENCES PER STREET & DRAINAGE REVISIONS         | 03-04-25 |
| ---      | ADJ. LATERAL SLOPES AT LOTS 379-386                       | 01-07-25 |
| ---      | ADJ. SEWER MAIN SLOPES TO 0.40% / ADDITIONAL LATERAL INFO | 10-16-24 |

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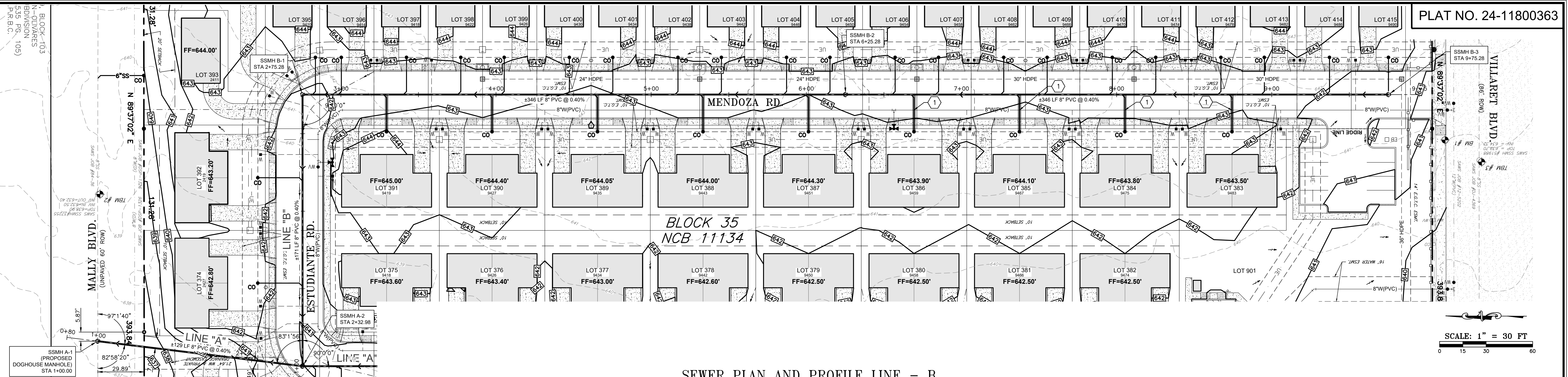
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## SEWER PLAN AND PROFILE LINE - B

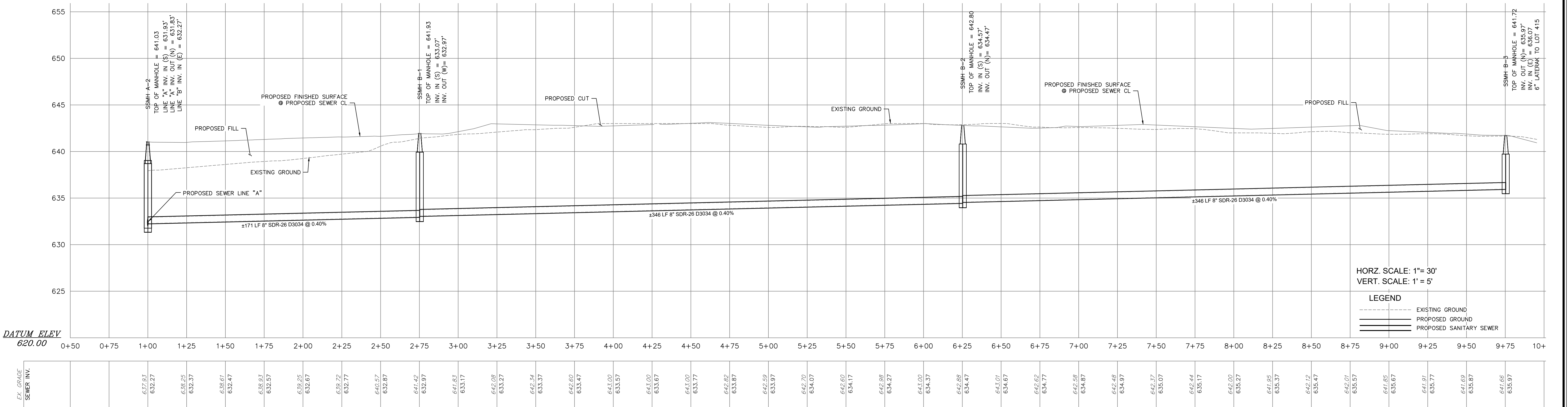
VILLARET COMMONS  
1507-1527 W. VILLARET BLVD.  
SAN ANTONIO, TX 78224

DRAWN/CHECK DATE: 10/04/2024  
BY: AL/DO  
JOB #: 806-02  
DWG NAME: 806-02 (SS2) SEWER PLAN & PROFILE

SHEET  
SS3

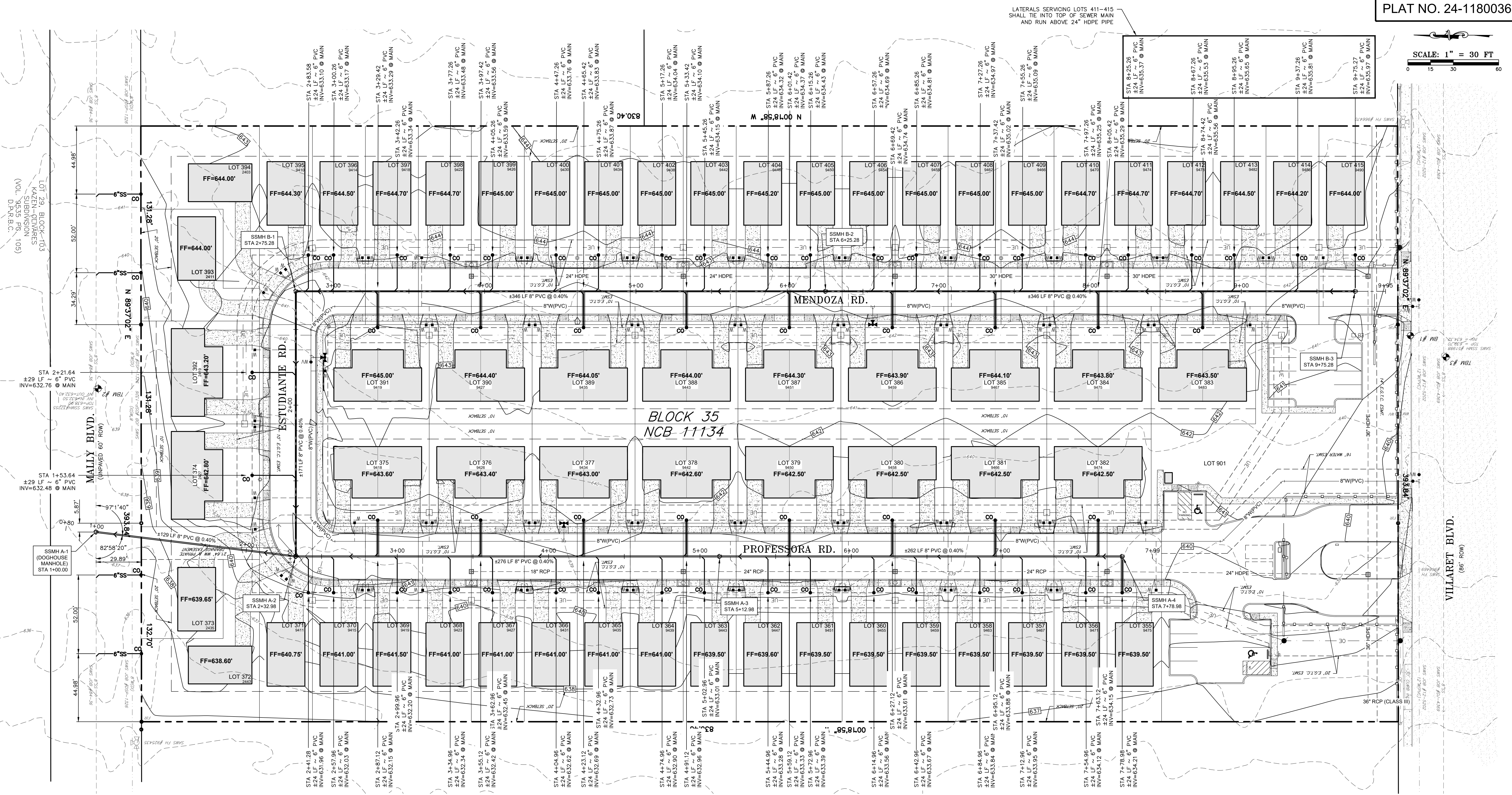


## SEWER PLAN AND PROFILE LINE - B





SCALE: 1" = 30 FT



# BENCHMARK

BENCHMARK #1: CHISELED SQUARE  
ELEV. = 639.95'

TEMPORARY BM #1: SAWS SSMH #51987  
ELEV. = 632.90'

TEMPORARY BM #2: SAWS SSMH #57255  
ELEV. = 638.90'

TEMPORARY BM #3: SAWS SSMH #51988  
ELEV. = 639.70'

NOTE:  
NOTED BM'S (BENCHMARKS) ON THESE PLANS ARE BASED ON SURVEY INFORMATION PROVIDED TO ENGINEER. CONTRACTOR TO FIELD VERIFY ACCURACY OF ANY NOTED/SUGGESTED BM'S PRIOR TO CONSTRUCTION. IF DESIRED, REQUESTED ADDITIONAL BM'S SHALL BE COORDINATED WITH LISTED PROJECT SURVEYOR AS A SEPARATE PAY ITEM.

# LEGAL DESCRIPTION

BEING A TOTAL OF 7.508 ACRES OF LAND PLATTED AS A PORTION OF LOT 338, MAYFIELD PARK, RECORDED IN VOLUME 980, PAGES 94-95, DEED AND PLAT RECORDS OF BEAR COUNTY, TEXAS, AND ALL OF LOT 338-A, MAYFIELD PARK, RECORDED IN VOLUME 7500, PAGE 159, DEED AND PLAT RECORDS OF BEAR COUNTY, TEXAS.

PROPOSED LOTS 375-415, AND LOT 901  
BLOCK 35, NCB 11134  
VILLARET COMMONS  
PLAT ID# 24-11800363

# ESTIMATED SANITARY SEWER QUANTITIES

| ITEM | DESCRIPTION                           | UNIT | QUANTITY |
|------|---------------------------------------|------|----------|
| 1    | 8" SANITARY SEWER LINE (SDR-26 D3034) | LF   | 1,510    |
| 2    | 8" SANITARY SEWER LINE (SDR-26 D2241) | LF   | 20       |
| 3    | SANITARY SEWER MANHOLE - STANDARD     | EACH | 6        |
| 4    | SANITARY SEWER MANHOLE - "DOGHOUSE"   | EACH | 6        |
| 5    | 6" SANITARY SEWER LATERALS (D3034)    | LF   | 1,090    |
| 6    | 6" SANITARY SEWER LATERALS (D2241)    | LF   | 408      |
| 7    | 6" CLEANOUTS                          | EACH | 61       |
| 8    | TRENCH PROTECTION                     | LF   | 1,530    |
| 9    | VACUUM TEST                           | EACH | 7        |

LOWER - CENTRAL SEWERSHED - DOS RIOS/LEON CREEK

|                                                    |                        |
|----------------------------------------------------|------------------------|
| Developer's Name: ONWARD DEVELOPMENT, LLC          |                        |
| Developer's Address: 13219 TROTTER PATH            |                        |
| City/State/Zip: HELOTES, TX 78023                  |                        |
| Phone # (210) 445-1384                             |                        |
| SAWS Block Map # 150-544                           | Total EDU'S 61 (SS)    |
|                                                    | Total Acreage 7.508 Ac |
| Total Linear Footage of Pipe: 1530 LF - 8" (SEWER) | Plot No. 24-11800363   |
| Number of Lots: 61                                 | SAWS JOB NO. 24-1614   |

# LEGEND

- PROPERTY LINE
- EXISTING CONTOUR LINE - IN FEET
- EXISTING SPOT ELEVATION (IN FEET)
- EXISTING CONC. CURB
- EXISTING SANITARY SEWER LINE (MATERIAL)
- EXISTING WATER LINE (MATERIAL)
- EXISTING OVERHEAD/UNDERGROUND ELECTRIC
- EXISTING/PROPOSED FIRE HYDRANT
- EXISTING/PROPOSED UTILITY POLE
- EXISTING/PROPOSED WATER VALVE
- EXISTING/PROPOSED WATER METER
- EXISTING/PROPOSED CLEAN OUT
- EXISTING/PROPOSED SEWER MANHOLE
- EXISTING CONCRETE/ASPHALT
- PROPOSED CONCRETE/ASPHALT
- PROPOSED FENCE
- PROPOSED WATER LINE (MATERIAL)
- PROPOSED SANITARY SEWER (8" PVC)
- PROPOSED OVERHEAD (OE) OR UNDERGROUND (UE) ELECTRIC, PHONE, CABLE, DATA
- PROPOSED PAD MOUNTED TRANSFORMER
- PROPOSED STORM PIPE
- PROPOSED STREET LIGHT
- 6" SEWER LATERAL (SDR-26 D3034)
- 6" SEWER LATERAL (SDR-26 D2241)
- (PRESSURE RATED) INSTALLED AT 1% SLOPE TO LOTS 355, 379-386, 2% SLOPE ELSEWHERE

# TRENCH EXCAVATION SAFETY PROTECTION:

CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/GEOTECHNICAL/SAFETY/EQUIPMENT CONSULTANT SHALL REVIEW THESE PLANS AND AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITE(S) WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS, AND/OR PROCEDURES FOR THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR'S IMPLEMENTATION OF THESE SYSTEMS, PROGRAMS, AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLY WITH AS A MINIMUM, CURRENT O.S.H.A. STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OF SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH CURRENT O.S.H.A. STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.



| REVISION | DESCRIPTION                                               | DATE     |
|----------|-----------------------------------------------------------|----------|
| -        | UPDATE REFERENCES PER STREET & DRAINAGE REVISIONS         | 03-04-25 |
| -        | ADJ. LATERAL SLOPES AT LOTS 379-386                       | 01-07-25 |
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# SEWER LATERAL CROSSING WATER MAIN NOTES:

- ALL 6" SEWER LATERALS SHALL BE SDR-26 D3034 PIPE EXCEPT FOR THOSE SEWER LATERALS THAT WILL CROSS THE PROPOSED 8" WATER MAINS WHICH SHALL BE SDR-26 D2241 (PRESSURE RATED) PIPE.
- FOR REFERENCE, SAWS WATER GCP JOB 24-1143 DENOTES INSTALLATION OF WATER MAIN SUCH THAT ONE SEGMENT OF THE WATERLINE PIPE SHALL BE CENTERED OVER AND SHALL BE PERPENDICULAR TO THE SEWER LATERAL SUCH THAT THE JOINTS OF THE WATERLINE PIPE ARE EQUIDISTANT AND AT LEAST 5 FT HORIZONTALLY FROM THE CENTERLINE OF THE SEWER LATERAL PER 30 TAC 290.44(e)(4)(b)(v).
- INSTALL ALL SDR-26 D2241 (PRESSURE RATED) SEWER LATERALS SERVING LOTS 379-386 AT 1.0% SLOPE TO ENSURE SEWER LATERALS CROSS BELOW WATER MAINS WITH 6" SEPARATION AT WATER MAIN CROSSINGS. ALL OTHER SEWER LATERALS TO BE INSTALLED AT THE 2% STANDARD SLOPE.

# SEWER LATERAL/ STORM PIPE NOTE:

THIS DEVELOPMENT HAS GRAVITY HOPE STORM PIPE WHICH HAS BEEN DESIGNED AND COORDINATED WITH THE PROPOSED GRAVITY SEWER MAIN AND SEWER LATERALS.

A TARGET SEPARATION OF 6" OR MORE BETWEEN THE SEWER LATERALS AND HOPE STORM DRAIN PIPE WAS DESIGNED. IT IS IMPERATIVE THAT THE PROPOSED SANITARY SEWER MAIN AND PROPOSED HOPE STORM DRAIN AND ASSOCIATED JUNCTION BOXES ARE INSTALLED PER PLAN TO ENSURE SANITARY SEWER LATERAL CROSSINGS.

CONTRACTOR SHALL REGULARLY CHECK INVERTS OF PROPOSED STORM DRAIN AND SANITARY SEWER INFRASTRUCTURE TO ENSURE COMPLIANCE WITH PLANS. ANY DEVIATION FROM PLANS, CONTRACTOR TO IMMEDIATELY NOTIFY ENGINEER FOR DIRECTION.

# SEWER SERVICE PLAN

VILLARET COMMONS  
1507-1527 W. VILLARET BLVD.  
SAN ANTONIO, TX 78224

SHEET  
SS4

DRAWN/CHECK DATE: 10/04/2024  
BY: AL/DO  
JOB #: 806-02  
DWG NAME: 806-02 (SS4) SEWER SERVICE PLAN



SAWS CONSTRUCTION NOTES  
COUNTER PERMIT AND GENERAL CONSTRUCTION PERMIT

GENERAL SECTION

JANUARY 2022

- ALL MATERIALS AND CONSTRUCTION PROCEDURES WITHIN THE SCOPE OF THIS CONTRACT SHALL BE APPROVED BY THE SAN ANTONIO WATER SYSTEM (SAWS) AND COMPLY WITH THE PLANS, SPECIFICATIONS, GENERAL CONDITIONS AND WITH THE FOLLOWING AS APPLICABLE:
  - CURRENT TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ) "DESIGN CRITERIA FOR DOMESTIC WASTEWATER SYSTEM", TEXAS ADMINISTRATIVE CODE (TAC) TITLE 30 PART 1 CHAPTER 217 AND "PUBLIC DRINKING WATER", TAC TITLE 30 PART 1 CHAPTER 290.
  - CURRENT TxDOT "STANDARD SPECIFICATIONS FOR CONSTRUCTION OF HIGHWAYS, STREETS AND DRAINAGE".
  - CURRENT "SAN ANTONIO WATER SYSTEM STANDARD SPECIFICATIONS FOR WATER AND SANITARY SEWER CONSTRUCTION".
  - CURRENT CITY OF SAN ANTONIO "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION".
  - CURRENT CITY OF SAN ANTONIO "UTILITY EXCAVATION CRITERIA MANUAL" (UECM).

- THE CONTRACTOR SHALL NOT PROCEED WITH ANY PIPE INSTALLATION WORK UNTIL THEY OBTAIN A COPY OF THE APPROVED COUNTER PERMIT OR GENERAL CONSTRUCTION PERMIT (GCP) FROM THE CONSULTANT AND HAS BEEN NOTIFIED BY SAWS CONSTRUCTION INSPECTION DIVISION TO PROCEED WITH THE WORK AND HAS ARRANGED A MEETING WITH THE INSPECTOR AND CONSULTANT FOR THE WORK REQUIREMENTS. WORK COMPLETED BY THE CONTRACTOR WITHOUT AN APPROVED COUNTER PERMIT AND/OR A GCP WILL BE SUBJECT TO REMOVAL AND REPLACEMENT AT THE EXPENSE OF THE CONTRACTORS AND/OR THE DEVELOPER.

- THE CONTRACTOR SHALL OBTAIN THE SAWS STANDARD DETAILS FROM THE SAWS WEBSITE, [HTTP://WWW.SAWS.ORG/BUSINESS\\_CENTER/SPECS](http://www.saws.org/business_center/specs). UNLESS OTHERWISE NOTED WITHIN THE DESIGN PLANS.

- THE CONTRACTOR IS TO MAKE ARRANGEMENTS WITH THE SAWS CONSTRUCTION INSPECTION DIVISION AT (210) 233-2973, ON NOTIFICATION PROCEDURES THAT WILL BE USED TO NOTIFY AFFECTED HOME RESIDENTS AND/OR PROPERTY OWNERS 48 HOURS PRIOR TO BEGINNING ANY WORK.

- LOCATION AND DEPTH OF EXISTING UTILITIES AND SERVICE LATERALS SHOWN ON THE PLANS ARE UNDERSTOOD TO BE APPROXIMATE. ACTUAL LOCATIONS AND DEPTHS MUST BE FIELD VERIFIED BY THE CONTRACTOR AT LEAST 1 WEEK PRIOR TO CONSTRUCTION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE UTILITY SERVICE LATERALS REQUIRED FOR CONSTRUCTION AND TO PROTECT THEM DURING CONSTRUCTION AT NO COST TO SAWS.
- THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF UNDERGROUND UTILITIES AND DRAINAGE STRUCTURES AT LEAST 1-2 WEEKS PRIOR TO CONSTRUCTION WHETHER SHOWN ON PLANS OR NOT. PLEASE ALLOW UP TO 7 BUSINESS DAYS FOR LOCATES REQUESTING PIPE LOCATION MARKERS ON SAWS FACILITIES. THE FOLLOWING CONTACT INFORMATION ARE SUPPLIED FOR VERIFICATION PURPOSES:
  - SAWS UTILITY LOCATES: [HTTP://WWW.SAWS.ORG/SERVICE/LOCATES](http://www.saws.org/service/locates)
  - COSA DRAINAGE (210) 207-0724 OR (210) 207-6026
  - COSA TRAFFIC SIGNAL OPERATIONS (210) 206-8480
  - COSA TRAFFIC SIGNAL DAMAGES (210) 207-3551
  - TEXAS STATE WIDE ONE CALL LOCATOR 1-800-545-6005 OR 811

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING EXISTING FENCES, CURBS, STREETS, DRIVEWAYS, SIDEWALKS, LANDSCAPING AND STRUCTURES TO ITS ORIGINAL OR BETTER CONDITION IF DAMAGES ARE MADE AS A RESULT OF THE PROJECT'S CONSTRUCTION.
- ALL WORK IN TEXAS DEPARTMENT OF TRANSPORTATION (TXDOT) AND/OR BEXAR COUNTY RIGHT-OF-WAY SHALL BE DONE IN ACCORDANCE WITH RESPECTIVE CONSTRUCTION SPECIFICATIONS AND PERMIT REQUIREMENTS.

- THE CONTRACTOR SHALL COMPLY WITH CITY OF SAN ANTONIO OR OTHER GOVERNING MUNICIPALITY'S TREE ORDINANCES WHEN EXCAVATING NEAR TREES.

- THE CONTRACTOR SHALL NOT PLACE ANY WASTE MATERIALS IN THE 100-YEAR FLOOD PLAIN WITHOUT FIRST OBTAINING AN APPROVED FLOOD PLAIN PERMIT.

- HOLIDAY WORK: CONTRACTORS WILL NOT BE ALLOWED TO PERFORM SAWS WORK ON SAWS RECOGNIZED HOLIDAYS. REQUEST SHOULD BE SENT TO [CONSWORKREQ@SAWS.ORG](mailto:CONSWORKREQ@SAWS.ORG). WEEKEND WORK: CONTRACTORS ARE REQUIRED TO NOTIFY THE SAWS INSPECTION CONSTRUCTION DEPARTMENT 48 HOURS IN ADVANCE TO REQUEST WEEKEND WORK. REQUEST SHOULD BE SENT TO [CONSWORKREQ@SAWS.ORG](mailto:CONSWORKREQ@SAWS.ORG). ANY AND ALL SAWS UTILITY WORK INSTALLED WITHOUT HOLIDAY/WEEKEND APPROVAL WILL BE SUBJECT TO BE UNCOVERED FOR PROPER INSPECTION.

- COMPACTION NOTE (ITEM 804): THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEETING THE COMPACTION REQUIREMENTS ON ALL TRENCH BACKFILL AND FOR PAYING FOR THE TESTS PERFORMED BY A THIRD PARTY. COMPACTION TESTS WILL BE DONE AT ONE LOCATION POINT RANDOMLY SELECTED, OR AS INDICATED BY THE SAWS INSPECTOR AND/OR THE TEST ADMINISTRATOR, PER EACH 12-INCH LOOSE LIFT PER 400 LINEAR FEET AT A MINIMUM. THIS PROJECT WILL NOT BE ACCEPTED AND FINALIZED BY SAWS WITHOUT THIS REQUIREMENT BEING MET AND VERIFIED BY PROVIDING ALL NECESSARY DOCUMENTED TEST RESULTS.

- A COPY OF ALL TESTING REPORTS SHALL BE FORWARDED TO SAWS CONSTRUCTION INSPECTION DIVISION.

WATER SECTION

- PRIOR TO TIE-INS, ANY SHUTDOWNS OF EXISTING MAINS OF ANY SIZE MUST BE COORDINATED WITH THE SAWS CONSTRUCTION INSPECTION DIVISION AT LEAST ONE WEEK IN ADVANCE OF THE SHUTDOWN. THE CONTRACTOR MUST ALSO PROVIDE A SEQUENCE OF WORK AS RELATED TO THE TIE-INS. THIS IS AT NO ADDITIONAL COST TO SAWS OR THE PROJECT AND IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO SEQUENCE THE WORK ACCORDINGLY. \*FOR WATER MAINS 12" OR HIGHER: SAWS EMERGENCY OPERATIONS CENTER (210) 233-2014

- ASBESTOS CEMENT (AC) PIPE, ALSO KNOWN AS TRANSITE PIPE WHICH IS KNOWN TO CONTAIN ASBESTOS-CONTAINING MATERIAL (ACM), MAY BE LOCATED WITHIN THE PROJECT LIMITS. SPECIAL WASTE MANAGEMENT PROCEDURES AND HEALTH AND SAFETY REQUIREMENTS WILL BE APPLICABLE WHEN REMOVAL AND/OR DISTURBANCE OF THIS PIPE OCCURS. SUCH WORK IS TO BE MADE UNDER SPECIAL SPECIFICATION ITEM NO. 3000, "SPECIAL SPECIFICATION FOR HANDLING ASBESTOS CEMENT PIPE".

- VALVE REMOVAL: WHERE THE CONTRACTOR IS TO ABANDON A WATER MAIN, THE CONTROL VALVE LOCATED ON THE ABANDONING BRANCH WILL BE REMOVED AND REPLACED WITH A CAP/PLUG. (NSPI)

- SUITABLE ANCHORAGE/THRUST BLOCKING OR JOINT RESTRAINT SHALL BE PROVIDED AT ALL OF THE FOLLOWING MAIN LOCATIONS: DEAD ENDS, PLUGS, CAPS, TEES, CROSSES, VALVES, AND BENDS, IN ACCORDANCE WITH THE STANDARD DRAWINGS DD-839 SERIES AND ITEM NO. 839, IN THE SAWS STANDARD SPECIFICATIONS FOR CONSTRUCTION.

- ALL VALVES SHALL READ "OPEN RIGHT".

- PRVS REQUIRED: CONTRACTOR TO VERIFY THAT NO PORTION OF THE TRACT IS BELOW GROUND ELEVATION OF FEET WHERE THE STATIC PRESSURE, NORMAL AT ALL SUCH LOCATIONS WHERE THE GROUND LEVEL IS BELOW FEET, THE DEVELOPER OR BUILDER SHALL INSTALL AT EACH LOT, ON THE CUSTOMER'S SIDE OF THE METER, AN APPROVED TYPE PRESSURE REGULATOR IN CONFORMANCE WITH THE PLUMBING CODE OF THE CITY OF SAN ANTONIO. NO DUAL SERVICES ALLOWED FOR ANY LOT(S) IF PRVS ARE REQUIRED FOR SUCH LOT(S). ONLY SINGLE SERVICE CONNECTIONS SHALL BE ALLOWED. \*NOTE: A PRESSURE REGULATOR IS ALSO KNOWN AS A PRESSURE REDUCING VALVE (PRV).

- PIPE DISINFECTION WITH DRY HTH FOR PROJECTS LESS THAN 800 LINEAR FEET. (ITEM NO. 847.3): MAINS SHALL BE DISINFECTED WITH DRY HTH WHERE SHOWN IN THE CONTRACT DOCUMENTS OR AS DIRECTED BY THE INSPECTOR, AND SHALL NOT EXCEED A TOTAL LENGTH OF 800 FEET. THIS METHOD OF DISINFECTION WILL ALSO BE FOLLOWED FOR MAIN REPAIRS. THE CONTRACTOR SHALL UTILIZE ALL APPROPRIATE SAFETY MEASURE TO PROTECT HIS PERSONNEL DURING DISINFECTION OPERATIONS.

- BACKFLOW PREVENTION DEVICES:
  - ALL IRRIGATION SERVICES WITHIN RESIDENTIAL AREAS ARE REQUIRED TO HAVE BACKFLOW PREVENTION DEVICES.
  - ALL COMMERCIAL BACKFLOW PREVENTION DEVICES MUST BE APPROVED BY SAWS PRIOR TO INSTALLATION.

- FINAL CONNECTION TO THE EXISTING WATER MAIN SHALL NOT BE MADE UNTIL THE WATER MAIN HAS BEEN PRESSURE TESTED, CHLORINATED, AND SAWS HAS RELEASED THE MAIN FOR TIE-IN AND USE.

- DIVISION VALVES: DIVISION VALVES SHOWN ON PLANS OR NOT SHOWN IN THE FIELD SHALL ONLY BE OPERATED BY SAWS DISTRIBUTION AND COLLECTION STAFF AND ONLY WITH PRIOR WRITTEN APPROVAL OF THE SAWS DIRECTOR OF PRODUCTION AND OPERATIONS AND PROPER COORDINATION WITH ALL SAWS DEPARTMENTS. CONTRACTOR SHALL PROVIDE WRITTEN NOTIFICATION TO THE INSPECTOR A MINIMUM OF TWO WEEKS IN ADVANCE TO START THE COORDINATION PROCESS AND WILL BE INFORMED BY THE INSPECTOR WHEN THE DIVISION VALVE WILL BE OPERATED BY THE SAWS DISTRIBUTION AND COLLECTION STAFF. THE DIVISION VALVE CAN ONLY BE OPERATED BY SAWS DISTRIBUTION AND COLLECTION STAFF MEMBER NOT THE INSPECTOR OR THE CONTRACTOR. OPERATION OF A DIVISION VALVE WITHOUT THE EXPRESS PRIOR WRITTEN APPROVAL OF THE SAWS DISTRIBUTION AND COLLECTION STAFF WILL CONSTITUTE A MATERIAL BREACH OF ANY WRITTEN SAWS CONTRACT OR PERMIT IN ADDITION TO SUBJECTING THE CONTRACTOR TO LIABILITY FOR ANY AND ALL FINES, FEES, OR OTHER DAMAGES, DIRECT OR CONSEQUENTIAL, THAT MAY ARISE FROM OR BE CAUSED BY THE OPERATION OF THE VALVE WITHOUT PRIOR WRITTEN PERMISSION. PLEASE BE INFORMED THAT THE APPROVAL OF THE OPERATION OR OPENING OR CLOSING OF A DIVISION VALVE CAN TAKE SEVERAL WEEKS FOR APPROVAL. DIVISION VALVES WILL ALSO HAVE A VALVE LID LABELED DIVISION VALVE AND A LOCKING MECHANISM INSTALLED WITH A KEY. THE LOCK AND KEY MECHANISM WILL BE PAID FOR BY THE CONTRACTOR BUT WILL BE INSTALLED BY SAWS DISTRIBUTION AND COLLECTION STAFF.

SEWER NOTES

- THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT NO SANITARY SEWER OVERFLOW (SSO) OCCURS AS A RESULT OF THEIR WORK. ALL CONTRACTOR PERSONNEL RESPONSIBLE FOR SSO PREVENTION AND CONTROL SHALL BE TRAINED ON PROPER RESPONSE. SHOULD AN SSO OCCUR, THE CONTRACTOR SHALL:
  - IDENTIFY THE SOURCE OF THE SSO AND NOTIFY SAWS EMERGENCY OPERATIONS CENTER (EOC) IMMEDIATELY AT (210) 233-2014. PROVIDE THE ADDRESS OF THE SPILL AND AN ESTIMATED VOLUME OR FLOW.
  - ATTEMPT TO ELIMINATE THE SOURCE OF THE SSO.
  - CONTAIN SEWAGE FROM THE SSO TO THE EXTENT OF PREVENTING A POSSIBLE CONTAMINATION OF WATERWAYS.
  - CLEAN UP SPILL SITE (RETURN CONTAINED SEWAGE TO THE COLLECTION SYSTEM IF POSSIBLE) AND PROPERLY DISPOSE OF CONTAMINATED SOIL/MATERIALS.
  - CLEAN THE AFFECTED SEWER MAINS AND REMOVE ANY DEBRIS.
  - MEET ALL POST-SSO REQUIREMENTS AS PER THE EPA CONSENT DECREE, INCLUDING LINE CLEANING AND TIE-INS WITHIN THE AFFECTED SEWER MAINS (AT SAWS DIRECTION) WITHIN 24 HOURS.

- SHOULD THE CONTRACTOR FAIL TO ADDRESS AN SSO IMMEDIATELY AND TO SAWS SATISFACTION, THEY WILL BE RESPONSIBLE FOR ALL COSTS INCURRED BY SAWS, INCLUDING ANY FINES FROM EPA, TCEQ AND/OR ANY OTHER FEDERAL, STATE OR LOCAL AGENCIES.

- NO SEPARATE MEASUREMENT OR PAYMENT SHALL BE MADE FOR THIS WORK. ALL WORK SHALL BE DONE ACCORDING TO GUIDELINES SET BY THE TCEQ AND SAWS.

- IF BYPASS PUMPING IS REQUIRED, THE CONTRACTOR SHALL PERFORM SUCH WORK IN ACCORDANCE WITH SAWS STANDARD SPECIFICATION FOR WATER AND SANITARY SEWER CONSTRUCTION, ITEM NO. 864, "BYPASS PUMPING".

- PRIOR TO TIE-INS, ANY SHUTDOWNS OF EXISTING FORCE MAINS OF ANY SIZE MUST BE COORDINATED WITH THE SAWS CONSTRUCTION INSPECTION DIVISION AT (210) 233-2973 AT LEAST ONE WEEK IN ADVANCE OF THE SHUTDOWN. THE CONTRACTOR MUST ALSO PROVIDE A SEQUENCE OF WORK AS RELATED TO THE TIE-INS. THIS IS AT NO ADDITIONAL COST TO SAWS OR THE PROJECT AND IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO SEQUENCE THE WORK ACCORDINGLY.

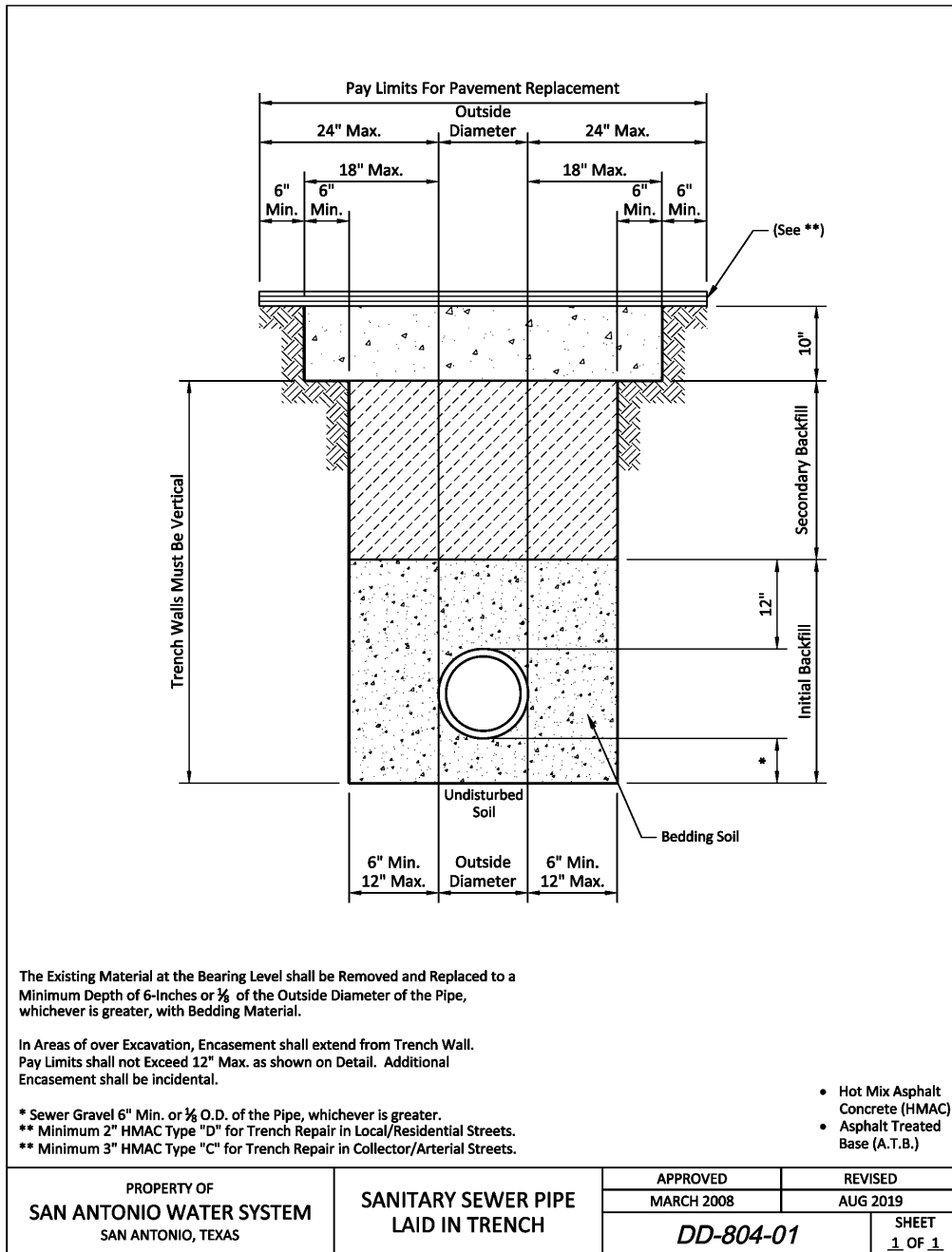
- SEWER PIPE WHERE WATER LINE CROSSES SHALL BE 160 PSI AND MEET THE REQUIREMENTS OF ASTM D2241, TAC 217.53 AND TCEQ 290.44(c)(4)(g). CONTRACTOR SHALL CENTER A 20' JOINT OF 160 PSI PRESSURE RATED PVC AT THE PROPOSED WATER CROSSING.

- ELEVATIONS POSTED FOR TOP OF MANHOLES ARE FOR REFERENCE ONLY; IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MAKE ALLOWANCES AND ADJUSTMENTS FOR TOP OF MANHOLES TO MATCH THE FINISHED GRADE OF THE PROJECT'S IMPROVEMENTS. (NSPI)

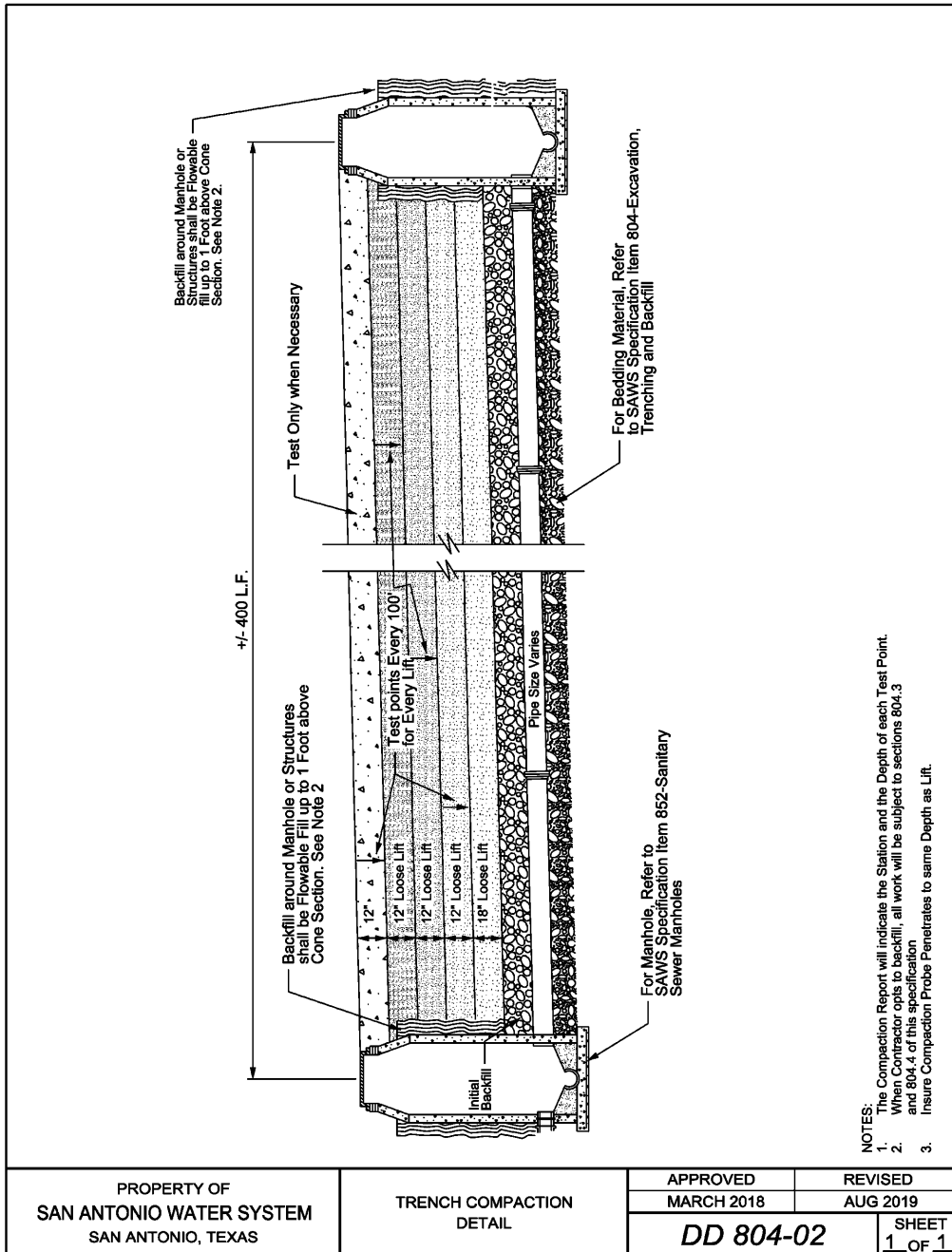
- SPILLS, OVERFLOWS, OR DISCHARGES OF WASTEWATER: ALL SPILLS, OVERFLOWS, OR DISCHARGES OF WASTEWATER, RECYCLED WATER, PETROLEUM PRODUCTS, OR CHEMICALS MUST BE REPORTED IMMEDIATELY TO THE SAWS INSPECTOR ASSIGNED TO THE COUNTER PERMIT OR GENERAL CONSTRUCTION PERMIT (GCP). THIS REQUIREMENT APPLIES TO EVERY SPILL, OVERFLOW, OR DISCHARGE, REGARDLESS OF SIZE.

- MANHOLE AND ALL PIPE TESTING (INCLUDING THE TV INSPECTION) MUST BE PERFORMED AND PASSED PRIOR TO FINAL FIELD ACCEPTANCE BY SAWS CONSTRUCTION INSPECTION DIVISION, AS PER THE SAWS SPECIFICATIONS FOR WATER AND SANITARY SEWER CONSTRUCTION.

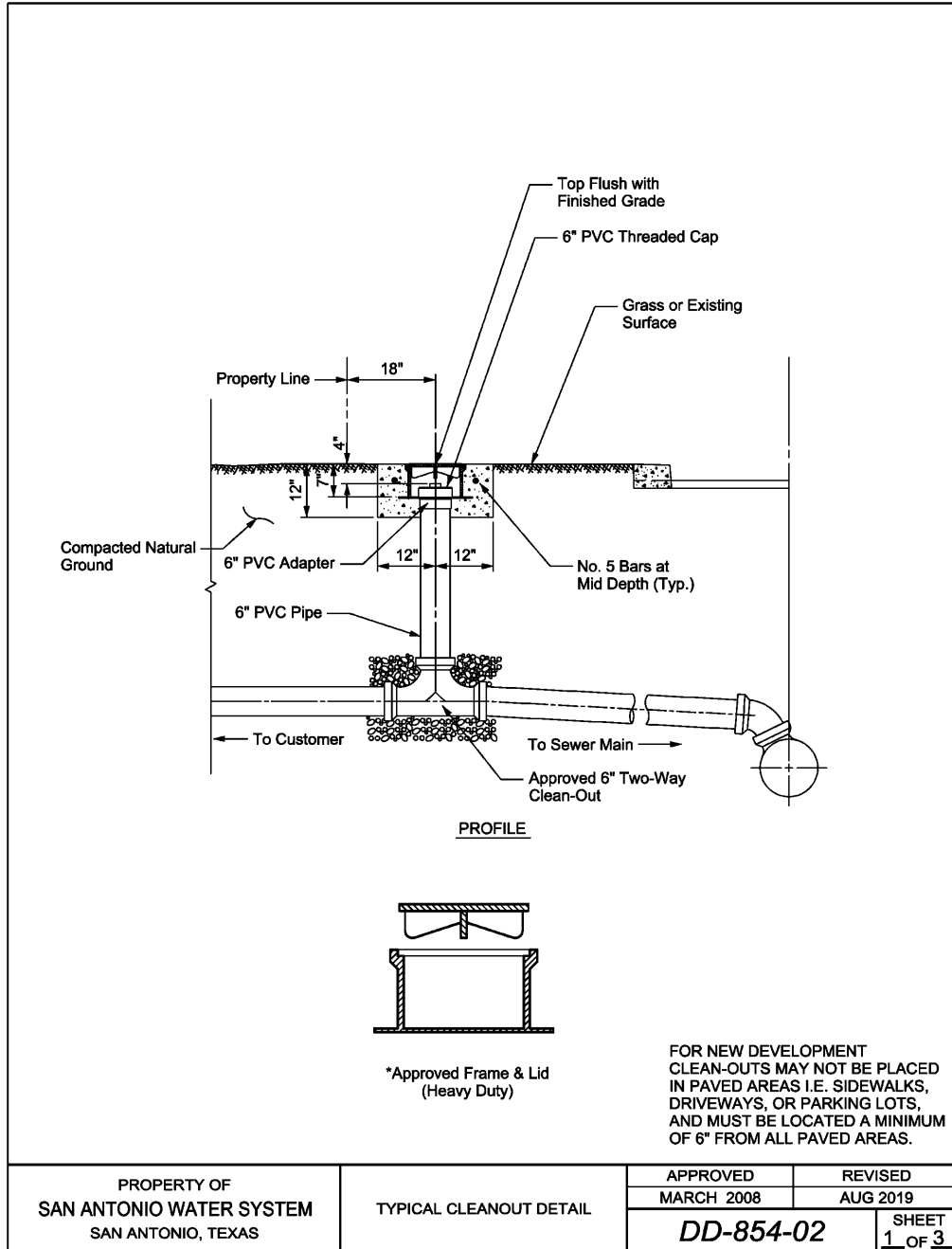
- ALL PVC PIPE OVER 14 FEET OF COVER SHALL BE EXTRA STRENGTH WITH MINIMUM PIPE STIFFNESS OF 115 PSI.



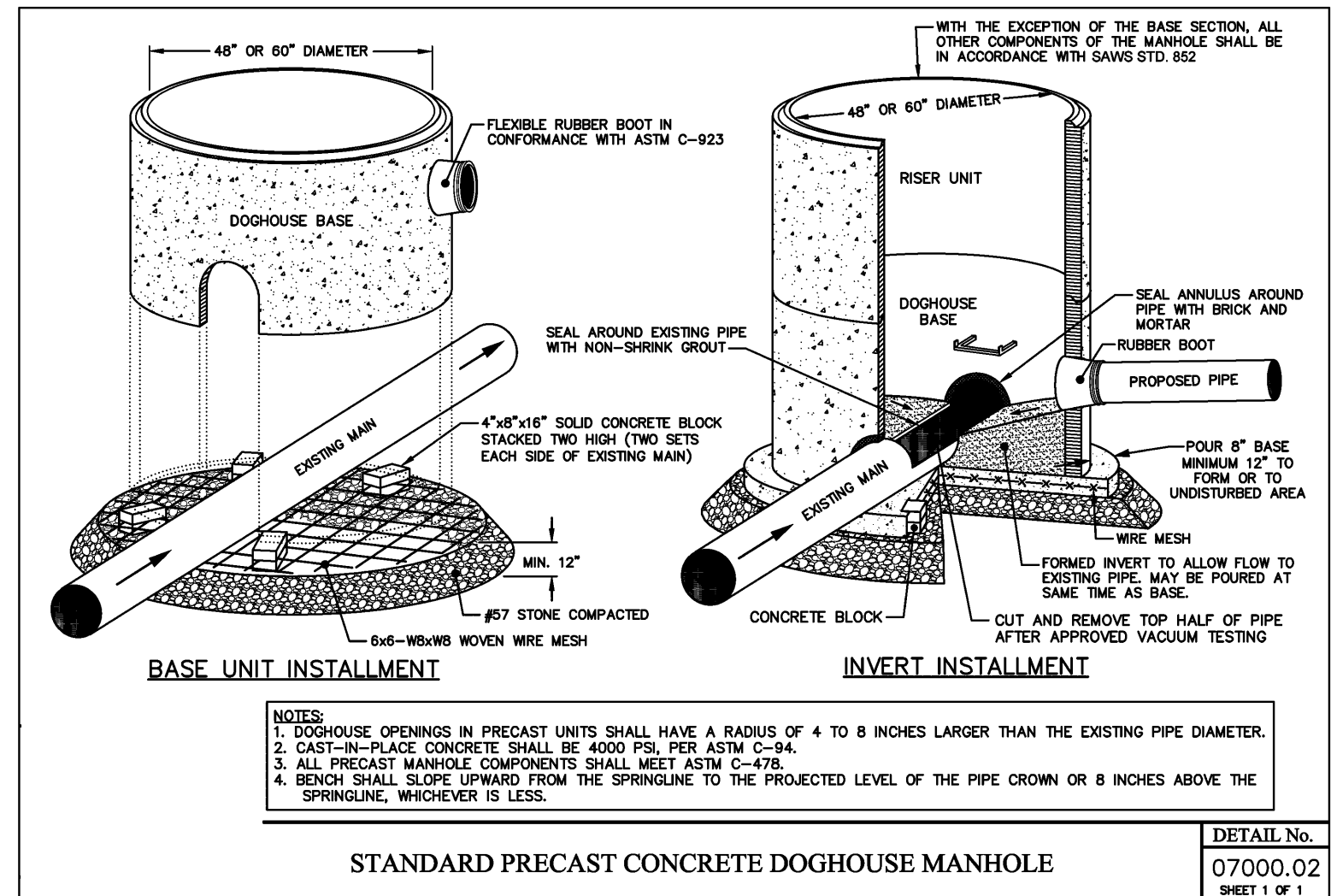
| PROPERTY OF              | SANITARY SEWER PIPE LAID IN TRENCH | APPROVED   | REVISED      |
|--------------------------|------------------------------------|------------|--------------|
| SAN ANTONIO WATER SYSTEM |                                    | MARCH 2008 | AUG 2019     |
| SAN ANTONIO, TEXAS       |                                    | DD-804-01  | SHEET 1 OF 1 |



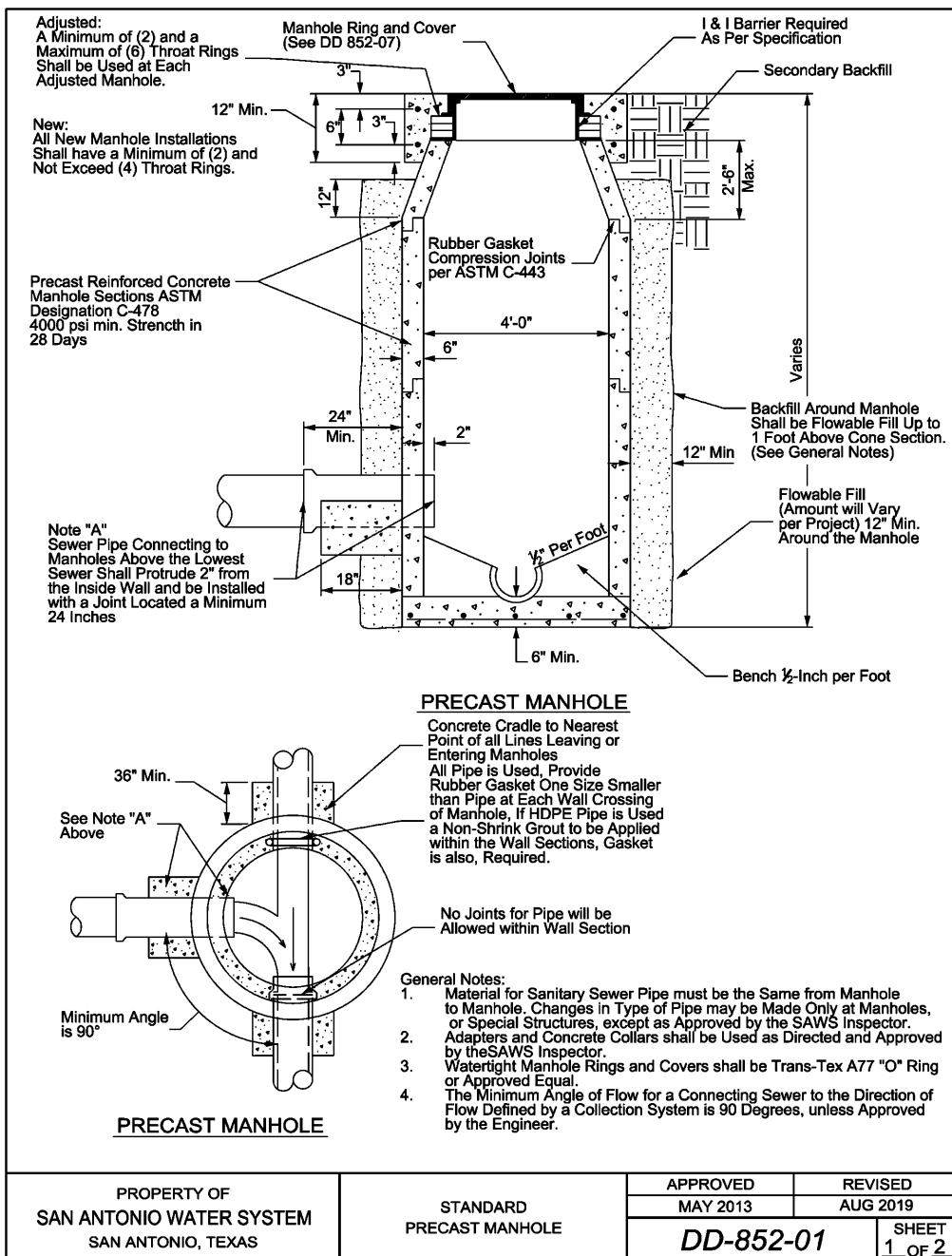
| PROPERTY OF              | TRENCH COMPACTION DETAIL | APPROVED   | REVISED      |
|--------------------------|--------------------------|------------|--------------|
| SAN ANTONIO WATER SYSTEM |                          | MARCH 2018 | AUG 2019     |
| SAN ANTONIO, TEXAS       |                          | DD 804-02  | SHEET 1 OF 1 |



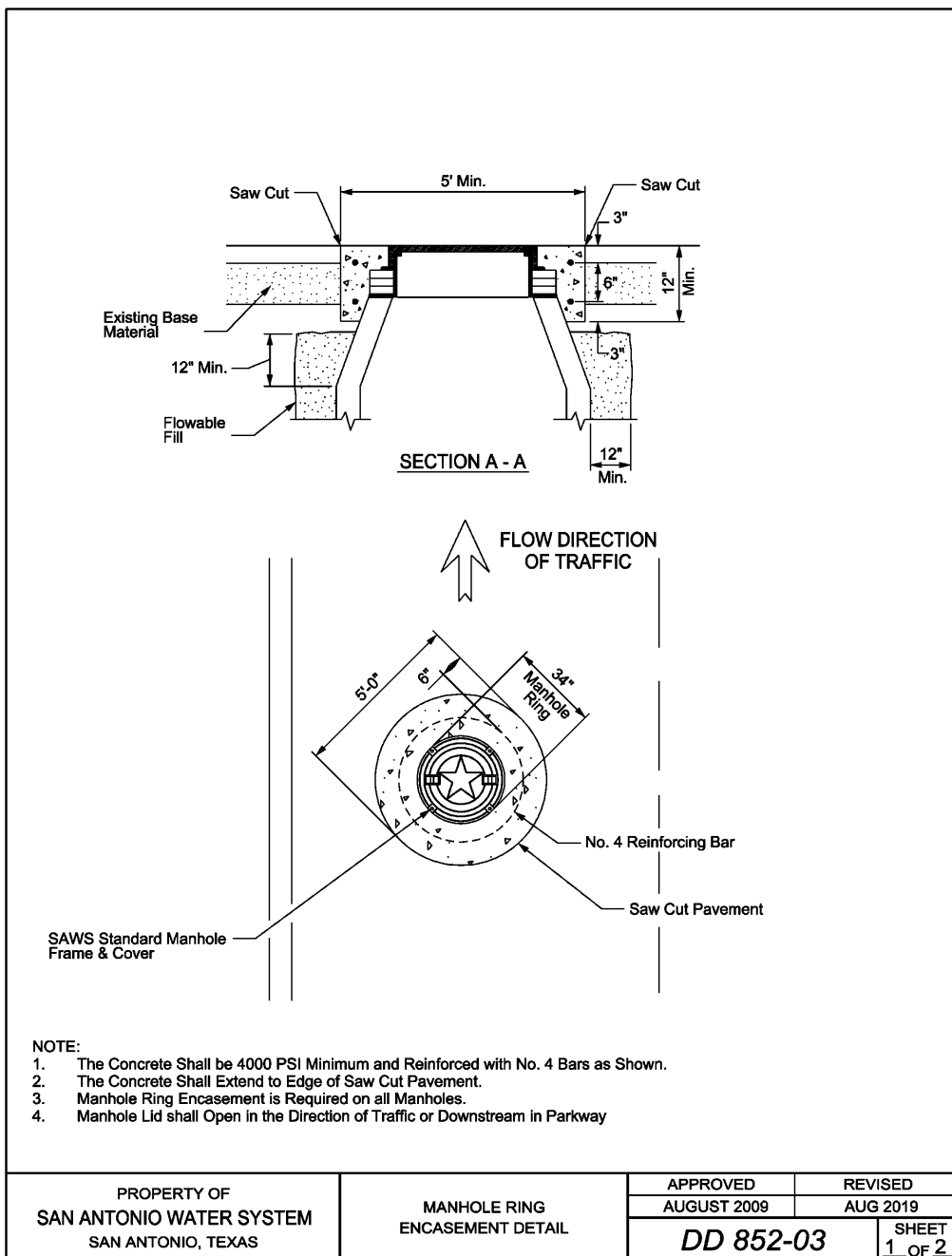
| PROPERTY OF              | TYPICAL CLEANOUT DETAIL | APPROVED   | REVISED      |
|--------------------------|-------------------------|------------|--------------|
| SAN ANTONIO WATER SYSTEM |                         | MARCH 2008 | AUG 2019     |
| SAN ANTONIO, TEXAS       |                         | DD-854-02  | SHEET 1 OF 1 |



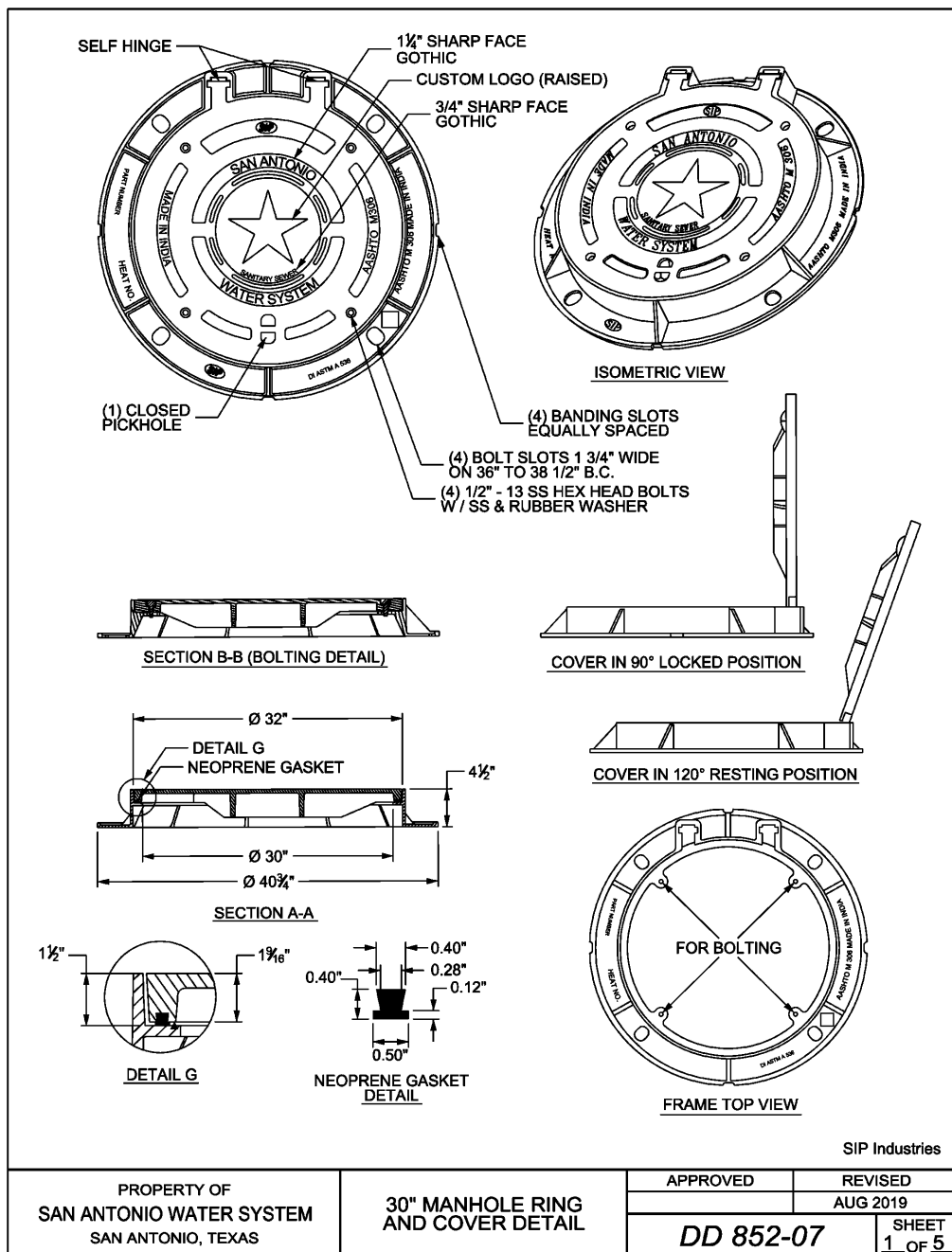
| PROPERTY OF              | STANDARD PRECAST CONCRETE DOGHOUSE MANHOLE | APPROVED   | REVISED      |
|--------------------------|--------------------------------------------|------------|--------------|
| SAN ANTONIO WATER SYSTEM |                                            | MARCH 2008 | AUG 2019     |
| SAN ANTONIO, TEXAS       |                                            | DD-854-02  | SHEET 1 OF 1 |



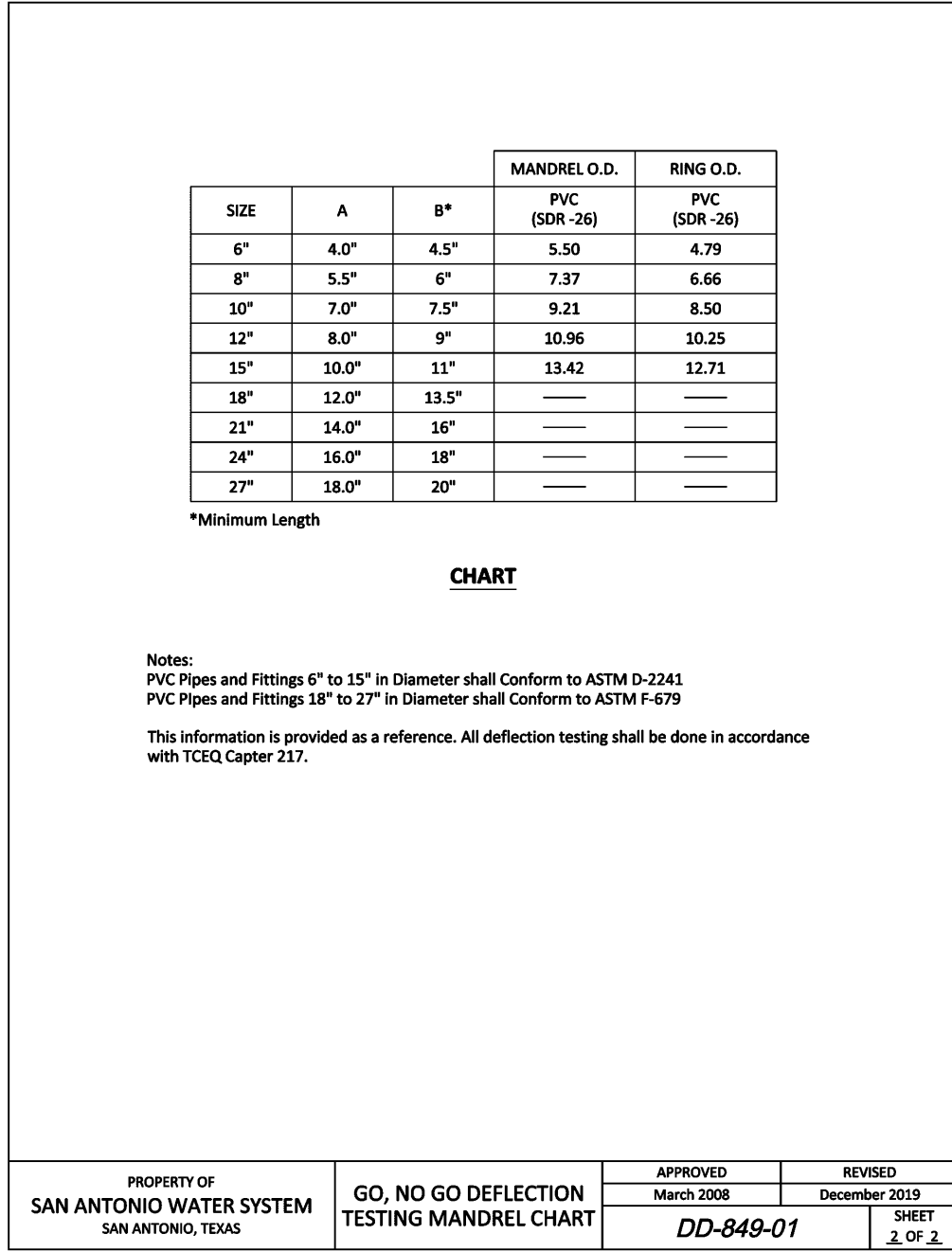
| PROPERTY OF              | STANDARD PRECAST MANHOLE | APPROVED  | REVISED      |
|--------------------------|--------------------------|-----------|--------------|
| SAN ANTONIO WATER SYSTEM |                          | MAY 2013  | AUG 2019     |
| SAN ANTONIO, TEXAS       |                          | DD-852-01 | SHEET 1 OF 2 |



| PROPERTY OF              | MANHOLE RING ENCASMENT DETAIL | APPROVED    | REVISED      |
|--------------------------|-------------------------------|-------------|--------------|
| SAN ANTONIO WATER SYSTEM |                               | AUGUST 2008 | AUG 2019     |
| SAN ANTONIO, TEXAS       |                               | DD 852-03   | SHEET 1 OF 2 |



| PROPERTY OF              | 30\"/> | APPROVED    | REVISED      |
|--------------------------|--------|-------------|--------------|
| SAN ANTONIO WATER SYSTEM |        | AUGUST 2008 | AUG 2019     |
| SAN ANTONIO, TEXAS       |        | DD 852-07   | SHEET 1 OF 2 |



ESTIMATED SANITARY SEWER QUANTITIES

| ITEM | DESCRIPTION                           | UNIT | QUANTITY |
|------|---------------------------------------|------|----------|
| 1    | 8" SANITARY SEWER LINE (SDR-26 D3034) | LF   | 1,510    |
| 2    | 8" SANITARY SEWER LINE (SDR-26 D2241) | LF   | 20       |
| 3    | SANITARY SEWER MANHOLE - STANDARD     | EACH | 6        |
| 4    | SANITARY SEWER MANHOLE - "DOGHOUSE"   | EACH | 1        |
| 5    | 6" SANITARY SEWER LATERALS (D3034)    | LF   | 1,090    |
| 6    | 6" SANITARY SEWER LATERALS (D2241)    | LF   | 408      |
| 7    | 6" CLEAVOUTS                          | EACH | 61       |
| 8    | TRENCH PROTECTION                     | LF   | 1,530    |
| 9    | VACUUM TEST                           | EACH | 7        |

LOWER - CENTRAL SEWERSHED - DOS RIOS/LEON CREEK

Developer's Name: **ONWARD DEVELOPMENT, LLC**

Developer's Address: **13219 TROUTING PATH**

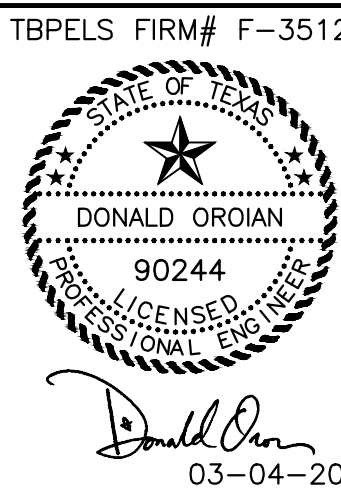
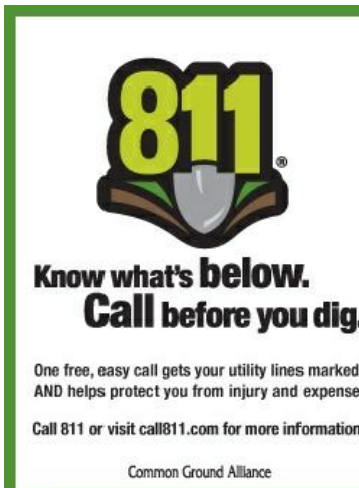
City/State/Zip: **HELOTES, TX 78023**

Phone # **(210) 445-1384**

SAWS Block Map # **150-544** Total EDU'S **61 (SS)** Total Acreage **7,508 Ac**

Total Linear Footage of Pipe: **1530 LF = 8" (SEWER)** Plot No. **24-11800363**

Number of Lots: **61** SAWS JOB NO. **24-1614**



| REVISION                                                                                                                           | DESCRIPTION                                              | DATE     |
|------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|----------|
| —                                                                                                                                  | UPDATE REFERENCES PER STREET & DRAINAGE REVISIONS        | 03-04-25 |
| —                                                                                                                                  | ADJ LATERAL SLOPES AT LOTS 379-386                       | 01-07-25 |
| —                                                                                                                                  | ADJ SEWER MAIN SLOPES TO 0.40% / ADDITIONAL LATERAL INFO | 10-16-24 |
| <b>ADA CONSULTING GROUP, INC.</b>                                                                                                  |                                                          |          |
| 221 W. RHAPSODY, STE. 102 SAN ANTONIO, TX 78216<br>(210) 340-5670 FAX: (210) 340-5728                                              |                                                          |          |
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SEWER PLAN DETAILS

SHEET

SS5

VILLARET COMMONS  
1507-1527 W. VILLARET BLVD.  
SAN ANTONIO, TX 78224

| DRAWN/CHECK | DATE       | JOB #  | DWG NAME                        |
|-------------|------------|--------|---------------------------------|
| B*/AL/DO    | 10/04/2024 | 806-02 | 806-02 (SS5) SEWER PLAN DETAILS |