

**MATERIALS TESTING
ASPHALT ROADWAYS**

FOR
STONE GARDEN UNIT 2A
SAN ANTONIO, TEXAS

December 3, 2025

PREPARED BY:



December 3, 2025

Lennar Homes of Texas Land & Construction, LTD.

100 NE Loop 410, Ste. 1155
San Antonio, TX 78216

Attn: Mr. Nathan Nowell
nathan.nowell@lennar.com

ECS Project No.: 20-1910

Re: ECS Testing Summary for Asphalt Roadways
Stone Garden Unit 2A
14395 Old Corpus Christi Road
Elmendorf, Texas 78112

Dear Mr. Nowell:

ECS Southwest, LLP (ECS) is pleased to submit our testing summary for sewer and water trench backfill compaction testing for the Stone Garden Unit 2A. Our services were authorized via ECS Proposal 20-2188 dated 02/1/2024. Service commenced on 3/25/2024. Testing was scheduled by V.K. Knowlton, the sitework subcontractor on an as needed basis for the below referenced area. Testing was completed on 11/13/2025.

Location: Street	Stations Included
Augite Cove	1+00.00 to 5+39.91
Basalts Garden	1+00.00 to 3+44.23
Dacite Place	1+00.00 to 5+92.95
Fiore Garden	1+00.00 to 6+05.53
Gabbro Cove	1+00.00 to 5+25.45
Giallo Place	1+00.00 to 3+12.10
Granite Garden	1+00.00 to 13+39.09
Hornblende Trails	1+00.00 to 7+18.91
Quartz Cove	1+00.00 to 14+41.31
Azzurro Stone	1+00.00 to 14+06.14
Chalk Cave	1+00.00 to 15+31.53
Mudstone Place	1+00.00 to 9+93.36

As the quality control inspector, and with respect to the inspections listed below for this project during construction, on a call out as need basis, to the best of my information, knowledge, and belief, the listed required inspections and tests for this project have been performed to the extent ECS Southwest, LLP was requested onsite for inspections and discovered discrepancies have been resolved for the testing performed by ECS Southwest, LLP.

ECS Southwest, LLP is pleased to have been a part of the third-party quality control team for Lennar Homes. If you have any questions or concerns regarding the testing performed by ECS Southwest, LLP, please contact us at your earliest convenience.

Respectfully submitted,
ECS Southwest, LLP



Adam Heiman, P.E.
Principal Engineer



TESTING REPORT SUMMARY

ASPHALT ROADWAYS



ECS Southwest, LLP
 431 Isom Road, Suite 114
 San Antonio, TX 78216
 T 210.528.1430
 F 214.483.9684

LETTER OF TRANSMITTAL

August 15, 2025

Lennar

100 NE Loop 410 Suite 1155

San Antonio, TX 78216

ATTN: Mr. Nathan Nowell

RE: **Stone Garden - Unit 2A**

ECS Job # **20:1910**

Permits:

Location: **14395 Old Corpus Christi Road
 Elmendorf, TX 78112**

☒

Field Reports

☒

For your use

☒

As requested

CC: Lennar - Rogelio "Roy" Olivarez, Jr.

ENCL: Field Report # 81 8/14/2025 Lime Gradations/ Soil Pick up

Adam James Heiman, P.E.
 Assistant Office Manager

Stephanie Marie Chavez
 CMT Project Professional I

Disclaimer

1. This report (and any attachments) shall not be reproduced except in full without prior written approval of ECS.
2. The information in this report relates only to the activities performed on the report date.
3. Where appropriate, this report includes statements as to compliance with applicable project drawings, and specifications for the activities, performed on this report date.
4. Incomplete or non-conforming work will be reported for future resolution.
5. The results of samples and/or specimens obtained or prepared for subsequent laboratory testing will be presented in separate reports/documents.

**ECS Southwest, LLP**

431 Isom Road, Suite 114

San Antonio, TX 78216

T 210.528.1430

F 214.483.9684

FIELD REPORT

Project **Stone Garden - Unit 2A**
 Location **Elmendorf, TX**
 Client **Lennar**
 Contractor **Lennar**

Project No. **20:1910**
 Report No. **81**
 Day & Date **Thursday 8/14/2025**
 Weather **94 °/ Partly Cloudy**
 On-Site Time **1.50**
 Lab Time **0.75**
 Travel Time* **0.50**
 Total **2.75**
 Re Obs Time **0.00**

Remarks **Lime Gradations/ Soil Pick up**

Trip Charges*	35.00	Tolls/Parking*		Mileage*		Time of Arrival		Departure
Chargeable Items						11:15A		12:45P

* Travel time and mileage will be billed in accordance with the contract.

Summary of Services Performed (field test data, locations, elevations & depths are estimates) & Individuals Contacted.

The undersigned arrived on-site, as requested to perform gradations for the lime treated subgrade for Quartz Cove and Dacite Place. Please see the attached sketch.

The applicable plans and geotechnical report were reviewed prior to testing. TxDOT Item 260 was performed for lime treated subgrade gradations. Sieve gradations appeared to meet the specifications.

While on site, as requested, the undersigned obtained 3 samples of lime treated subgrade material for testing in our laboratory. The sample was obtained from the processed lime treated subgrade.

Locations:

Dacite Place near station 2+50

Quartz Cove near stations 5+00 and 12+00

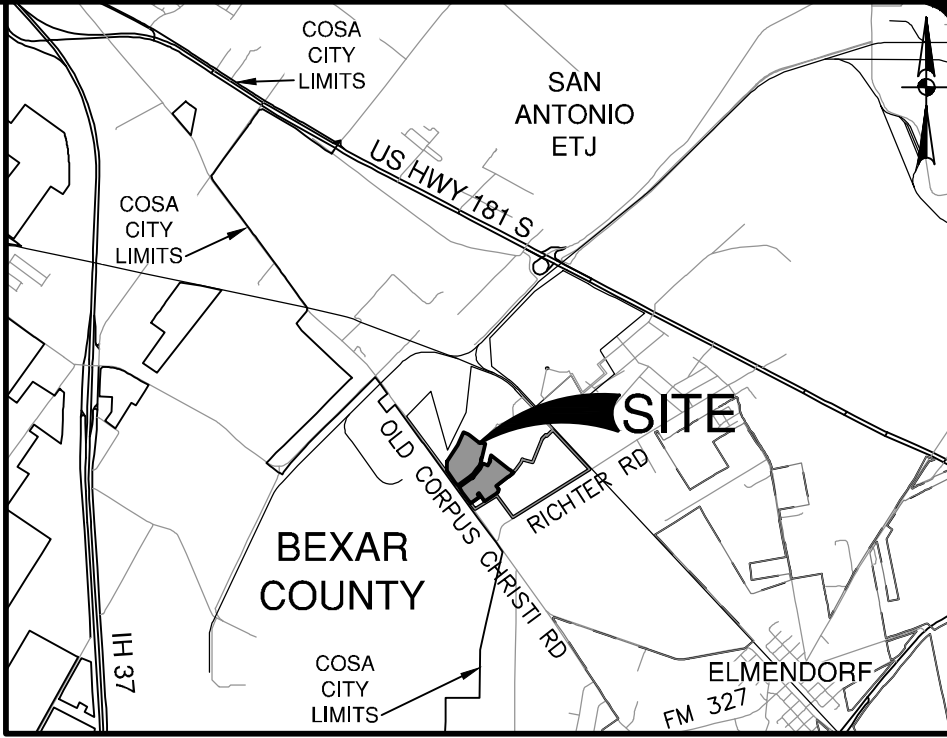
The three (3) samples were obtained and approximately 2 buckets of each of the material was obtained and returned to the laboratory for testing.

Prior to departure, Vence Arriaga with V.K. Knowlton was informed of the results of the day's observations.

By Nathan Allen

1700

Project: 1910 Stone Garden - Unit 2A
Task: Lime gradation observation and proctor pickup for road subgrade
Date: 8/14/25
Tech: Nathanael Allen



LOCATION MAP

NOT-TO-SCALE



GRADING LEGEND

PROJECT LIMITS

100 YR FLOODPLAIN

EXISTING CONTOUR

PROPOSED CONTOUR

FLOW ARROW (EXISTING)

FLOW ARROW (PROPOSED)

MINIMUM FINISHED FLOOR ELEVATION

TREES TO REMAIN

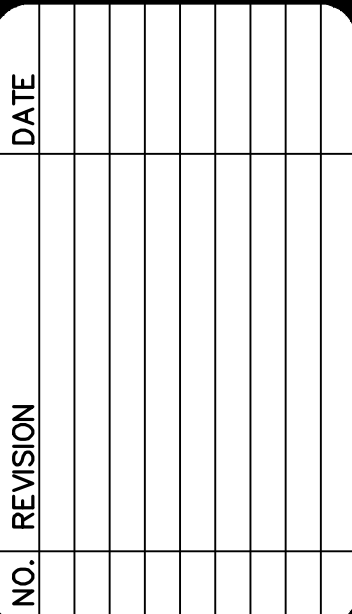
TREES TO BE REMOVED

VEHICULAR NON ACCESS EASEMENT

Diagram details: The diagram shows a plan view of a driveway layout. A dashed line represents the 'PROJECT LIMITS'. A solid line represents the '100 YR FLOODPLAIN'. A dashed line represents the 'EXISTING CONTOUR' with an elevation of -976. A solid line represents the 'PROPOSED CONTOUR' with an elevation of -970. A grey arrow indicates the 'FLOW ARROW (EXISTING)' and a black arrow indicates the 'FLOW ARROW (PROPOSED)'. A box labeled 'FF = XXXX.XX' represents the 'MINIMUM FINISHED FLOOR ELEVATION'. Green circles represent 'TREES TO REMAIN' and red circles represent 'TREES TO BE REMOVED'. A dashed line represents the 'VEHICULAR NON ACCESS EASEMENT'.

GRADING NOTES:

1. ALL MATERIALS AND CONSTRUCTION PROCEDURES WITHIN THIS SCOPE OF WORK WHERE NOT SPECIFICALLY COVERED IN THE SPECIFICATIONS OR GEOTECHNICAL REPORT SHALL CONFORM TO ALL APPLICABLE CITY, COUNTY AND STATE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (LATEST EDITION).
2. SITE PREPARATION, GRADING, EXCAVATION AND FILL SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT GEOTECHNICAL REPORT AND SPECIFICATIONS.
3. ALL SELECT FILL MATERIAL PROVIDED SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACING AND COMPACTING.
4. ALL ELEVATIONS AND PROPOSED CONTOURS SHOWN ON THIS GRADING PLAN REFLECT FINISHED GRADES. THE THICKNESS OF PAVING, BASE, GRASS, TOPSOIL, AND MULCH MUST BE SUBTRACTED TO OBTAIN SUBGRADE ELEVATIONS.
5. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY QUESTIONS THAT MAY ARISE CONCERNING THE INTENT, PLACEMENT, OR SIZE AND DIMENSIONS OR GRADES NECESSARY FOR CONSTRUCTION OF THIS PROJECT.
6. THE CONTRACTOR SHALL VERIFY THE SUITABILITY OF ALL EXISTING AND PROPOSED SITE CONDITIONS INCLUDING GRADES AND DIMENSIONS BEFORE COMMENCEMENT OF CONSTRUCTION. THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACQUIRING ALL PERMITS, TESTS, APPROVALS AND ACCEPTANCES REQUIRED TO COMPLETE CONSTRUCTION OF THIS PROJECT.
8. THE CONTRACTOR SHALL REMOVE TOP SOIL, GRASS, ROOTS, DEBRIS, ETC. TO A DEPTH OFF THE PROJECT MATERIALS NOT SUITABLE FOR EMBAKMENT AND TOPSOIL, CLEAN STRIPPINGS AND TOPSOIL MAY BE STOCKPOED ON SITE FOR REUSE IN A LOCATION SPECIFIED BY THE OWNER.
9. THE SITE CONTRACTOR SHALL BE RESPONSIBLE FOR SITE STABILIZATION, ALL DISTURBED AREAS SHALL BE REVEGETATED IN ACCORDANCE WITH PROJECT SPECIFICATIONS AND TYPES/SWPPP REQUIREMENTS. REFERENCE THE LANDSCAPE ARCHITECT'S PLAN, IF APPLICABLE.
10. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS (USE OF SILT FENCES, ETC.) TO KEEP DRAINAGE AND SILT FROM WASHING ONTO ADJACENT PROPERTY, STREETS, OR DRAINAGE WAYS. CONTRACTOR SHALL TAKE APPROPRIATE MEASURES TO REMOVE SILT/DEBRIS WHICH WASHES OFFSITE OR INTO EXISTING STORM DRAIN SYSTEMS. (SEE SWPPP PLANS & TYPES BOOK).
11. THE CONTRACTOR SHALL OBTAIN GRADES SHOWN HEREON WITHIN $\pm 1/8"$ ONE-TENTH (0.10) FOOT.
12. IN PROPOSED PAVING AREAS, STREET DESIGN PLANS SHALL CONTROL. THE EXISTING SLOPES SHALL BE A MAXIMUM OF 3:1 AND A MINIMUM OF 1:10 UNLESS OTHERWISE SHOWN.
13. THE CONTRACTOR SHALL PROVIDE A SMOOTH TRANSITION BETWEEN EXISTING SITE AND PROPOSED IMPROVEMENTS.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING TO ITS ORIGINAL OR BETTER CONDITION ANY DAMAGE DONE TO EXISTING TREES, BUILDINGS, UTILITIES, FENCES, PAVEMENT, CURBS, OR DRIVEWAYS (NO SEPARATE PAY ITEMS).
15. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN WORKING NEAR UTILITIES, GAS LINES, SEWER, OR EXISTING APPURTENANCES. PRIOR TO PERFORMING ANY EXCAVATION, CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES TO LOCATE AND IDENTIFY ALL UTILITIES. IF ANY UTILITIES HAVE BEEN INADEQUATELY LOCATED AND IDENTIFIED, THE ENGINEER SHALL BE NOTIFIED IF ANY UTILITY CONFLICTS ARE DISCOVERED.
16. UTILITIES SHOWN ON THE PLANS ARE FROM INFORMATION SOURCES AVAILABLE AT THE TIME OF DESIGN BUT MAY NOT REPRESENT ALL EXISTING UTILITIES ON SITE. THE CONTRACTOR WILL BE RESPONSIBLE FOR IDENTIFYING THE EXACT LOCATION OF ALL UTILITIES WHETHER SHOWN ON THE PLANS OR NOT. THE CONTRACTOR SHALL UNCOVER EXISTING UTILITIES PRIOR TO CONSTRUCTION AND VERIFY SIZE, GRADE AND LOCATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL UTILITIES SHOWN FROM PLANS PRIOR TO BEGINNING CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES, WHETHER SHOWN ON THE PLANS OR NOT, SHALL BE THE CONTRACTORS RESPONSIBILITY TO REPAIR, AT HIS OWN EXPENSE.
17. POSITIVE DRAINAGE SHALL BE MAINTAINED THROUGHOUT THE SCOPE OF THE PROJECT. DRAINAGE SHALL BE DIRECTED AWAY FROM ALL BUILDINGS AND DRIVEWAYS. CONTRACTOR SHOULD TAKE PRECAUTIONS NOT TO ALLOW ANY PONDING OF WATER.
18. FOR FILL PLACEMENT ON HILL SIDES OR STEEP SLOPE AREAS, THE CONTRACTOR SHALL REFERENCE THE PROJECT SPECIFICATIONS AND GEOTECHNICAL REPORT FOR SPECIAL INSTRUCTIONS REGARDING BENCHING.
19. NO WORK SHALL BE PERFORMED IN A PUBLIC RIGHT-OF-WAY WITHOUT A PERMIT.



**PAPE-DAWSON
ENGINEERS**

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

STONE GARDEN - UNIT 2A
BEXAR COUNTY, TEXAS

OVERALL GRADING PLAN

PLAT NO. 22-11800734
JOB NO. 12482-04
DATE AUGUST 2023
DESIGNER JG
CHECKED DW DRAWN TC
SHEET C7.03

Attachments



Lime mixer onsite

Figure 1



Sample D4S-7 after sampling at Dacite Place

Figure 2

Attachments



Quartz Cove near station 12+00 facing SW

Figure 3



Dacite Place appears to be mixed with lime prior to gradations and sampling

Figure 4



ECS Southwest, LLP
 431 Isom Road, Suite 114
 San Antonio, TX 78216
T 210.528.1430
F 214.483.9684

LETTER OF TRANSMITTAL

August 18, 2025
 Lennar
 100 NE Loop 410 Suite 1155
 San Antonio, TX 78216
 ATTN: Mr. Nathan Nowell

RE: **Stone Garden - Unit 2A**
 ECS Job # **20:1910**
 Permits:
 Location: **14395 Old Corpus Christi Road**
Elmendorf, TX 78112

☒ Field Reports ☒ For your use ☒ As requested

CC: Lennar - Rogelio "Roy" Olivarez, Jr.

ENCL: Field Report # 82 8/16/2025 Lime gradation and Lime proctor sample pick

Adam James Heiman, P.E.
 Assistant Office Manager

Stephanie Marie Chavez
 CMT Project Professional I

Disclaimer

1. This report (and any attachments) shall not be reproduced except in full without prior written approval of ECS.
2. The information in this report relates only to the activities performed on the report date.
3. Where appropriate, this report includes statements as to compliance with applicable project drawings, and specifications for the activities, performed on this report date.
4. Incomplete or non-conforming work will be reported for future resolution.
5. The results of samples and/or specimens obtained or prepared for subsequent laboratory testing will be presented in separate reports/documents.

**ECS Southwest, LLP**

431 Isom Road, Suite 114

San Antonio, TX 78216

T 210.528.1430

F 214.483.9684

FIELD REPORT

Project **Stone Garden - Unit 2A**
 Location **Elmendorf, TX**
 Client **Lennar**
 Contractor **Lennar**

Project No. **20:1910**
 Report No. **82**
 Day & Date **Saturday 8/16/2025**
 Weather **81 °/ clear**
 On-Site Time **0.75**
 Lab Time **0.50**
 Travel Time* **1.00**
 Total **2.25**
 Re Obs Time **0.00**

Remarks **Lime gradation and Lime proctor sample pickups**

Trip Charges*	35.00	Tolls/Parking*		Mileage*		Time of Arrival	10:30A	Departure	11:15A
Chargeable Items									

* Travel time and mileage will be billed in accordance with the contract.

Summary of Services Performed (field test data, locations, elevations & depths are estimates) & Individuals Contacted.

The undersigned arrived on-site, as requested to perform gradations for the lime treated subgrade for Granite Garden and Chalk Cave. Please see the attached sketch.

The applicable plans and geotechnical report were reviewed prior to testing. TxDOT Item 260 was performed for lime treated subgrade gradations. Sieve gradations appeared to meet the specifications.

While on site, as requested, the undersigned obtained 2 samples of lime treated subgrade material for testing in our laboratory. The samples were obtained from the processed lime treated subgrade.

Locations:

Granite Garden near station 11+00

Chalk Cave near station 3+50

The two(2) samples were obtained and approximately 2 buckets of each of the material was obtained and returned to the laboratory for testing.

Prior to departure, Vince Arriaga with V.K. Knowlton was informed of the results of the day's observations.

Granite Garden Stabilization Field Gradation Test 1

Sieve no.	Sieve Opening (mm)	Mass of Soil retained (lb.)	Percent of mass retained (%)	Cumulative percent retained (%)	Percent finer passing (%)
1-3/4"	45.000	0.00	0.00	0.00	100.00
3/4"	19.000	0.59	5.90	5.90	94.10
#4	4.750	3.09	30.90	36.80	69.10
pan	0.00	6.39	63.90	100.70	0.00
Total Mass (10lb)		10.00			

Chalk Cove Stabilization Field Gradation Test 2

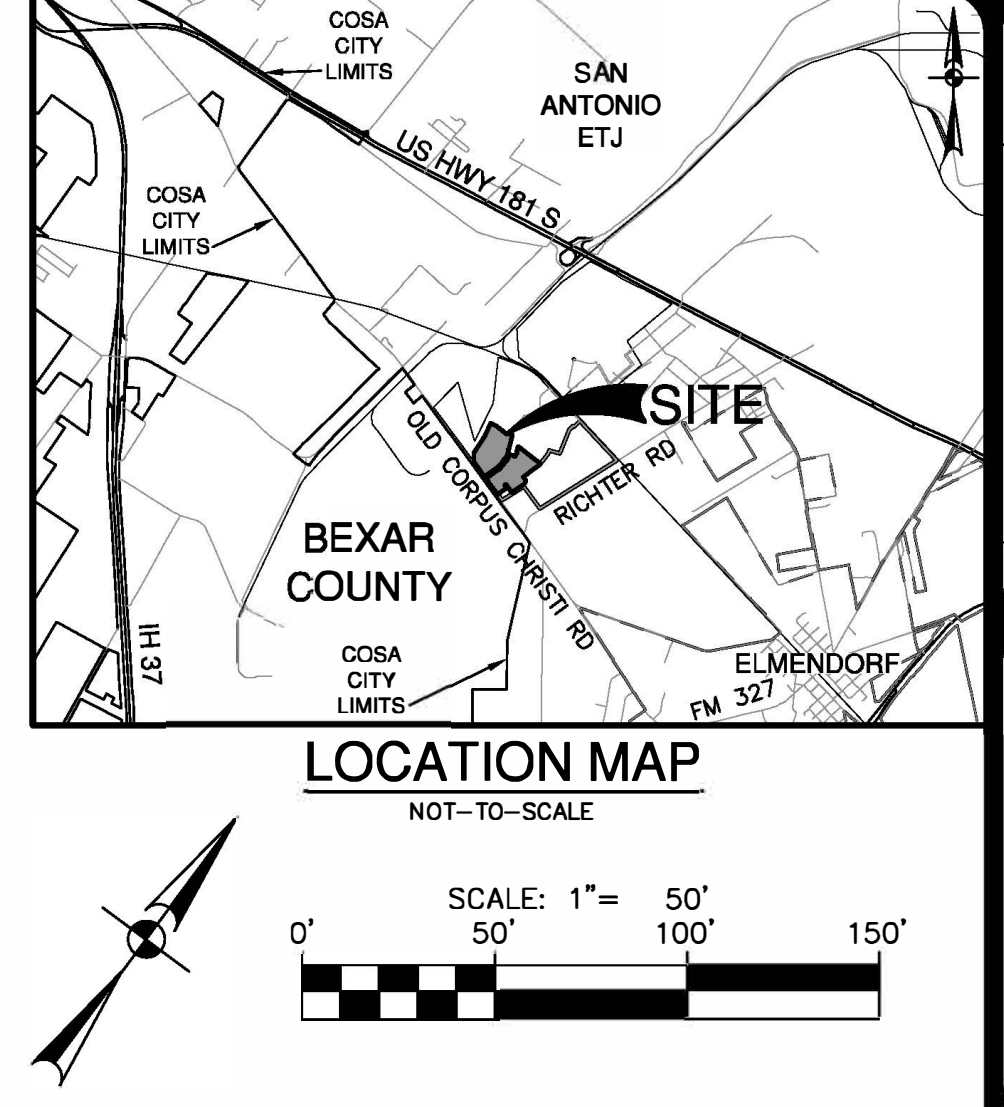
Sieve no.	Sieve Opening (mm)	Mass of Soil retained (lb.)	Percent of mass retained (%)	Cumulative percent retained (%)	Percent finer passing (%)
1-3/4"	45.000	0.00	0.00	0.00	100.00
3/4"	19.000	0.44	1.80	1.80	98.20
#4	4.750	3.09	30.20	32.00	69.80
pan	0.00	6.43	68.00	100.00	0.00
Total Mass (10lb)		10.00			

N/A Stabilization Field Gradation Test 3

Sieve no.	Sieve Opening (mm)	Mass of Soil retained (lb.)	Percent of mass retained (%)	Cumulative percent retained (%)	Percent finer passing (%)
1-3/4"	45.000	0.00	0.00	0.00	100.00
3/4"	19.000	0.00	0.00	0.00	100.00
#4	4.750	0.00	0.00	0.00	100.00
pan	0.00	0.00	0.00	0.00	100.00
Total Mass (10lb)		10.00			

Gradation Requirements (Minimum % Passing)

Sieve Size	Subgrade
1-3/4"	100.00
3/4"	85.00
#4	60.00



GRADING LEGEND	
PROJECT LIMITS	---
100 YR FLOODPLAIN	---
EXISTING CONTOUR	---
PROPOSED CONTOUR	---
FLOW ARROW (EXISTING)	---
FLOW ARROW (PROPOSED)	---
MINIMUM FINISHED FLOOR ELEVATION	FF=XXXX.XX
TREES TO REMAIN	---
TREES TO BE REMOVED	---
VEHICULAR NON ACCESS EASEMENT	VNAE

- GRADING NOTES:**
- ALL MATERIALS AND CONSTRUCTION PROCEDURES WITHIN THIS SCOPE OF WORK WHERE NOT SPECIFICALLY COVERED IN THE SPECIFICATIONS OR GEOTECHNICAL REPORT SHALL CONFORM TO ALL APPLICABLE CITY, COUNTY AND TxDOT STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (LATEST EDITION).
 - SITE PREPARATION, GRADING, EXCAVATION AND FILL SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT GEOTECHNICAL REPORT AND SPECIFICATIONS.
 - ALL SELECT FILL MATERIAL PROVIDED SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACING AND COMPACTING.
 - ALL ELEVATIONS AND PROPOSED CONTOURS SHOWN ON THIS GRADING PLAN REFLECT FINISHED GRADES. THE THICKNESS OF PAVING, BASE, GRASS, TOPSOIL, AND MULCH MUST BE SUBTRACTED TO OBTAIN SUBGRADE ELEVATIONS.
 - THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY QUESTIONS THAT MAY ARISE CONCERNING THE INTENT, PLACEMENT, OR LIMITS OF DIMENSIONS OR GRADES NECESSARY FOR CONSTRUCTION OF THIS PROJECT.
 - THE CONTRACTOR SHALL VERIFY THE SUITABILITY OF ALL EXISTING AND PROPOSED SITE CONDITIONS INCLUDING GRADES AND DIMENSIONS BEFORE COMMENCEMENT OF CONSTRUCTION. THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACQUIRING ALL PERMITS, TESTS, APPROVALS AND ACCEPTANCES REQUIRED TO COMPLETE CONSTRUCTION OF THIS PROJECT.
 - THE CONTRACTOR SHALL REMOVE TOP SOIL, GRASS, ROOTS, DEBRIS, ETC. AND DISPOSE OFF SITE THOSE MATERIALS NOT SUITABLE FOR EMBANKMENT AND TOPSOIL. CLEAN STRIPPINGS AND TOPSOIL MAY BE STOCKPILED ON SITE FOR REUSE IN A LOCATION SPECIFIED BY THE OWNER.
 - THE SITE CONTRACTOR SHALL BE RESPONSIBLE FOR SITE STABILIZATION. ALL DISTURBED AREAS SHALL BE REVEGETATED IN ACCORDANCE WITH PROJECT SPECIFICATIONS AND TPDES/SWPPP REQUIREMENTS. REFERENCE THE LANDSCAPE ARCHITECT'S PLAN, IF APPLICABLE.
 - THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS (USE OF SILT FENCES, ETC.) TO KEEP DRAINAGE AND SILT FROM WASHING ONTO ADJACENT PROPERTY, STREETS, OR DRAINAGE WAYS. CONTRACTOR SHALL IMMEDIATELY REMOVE SILT/DEBRIS WHICH WASHES OFFSITE OR INTO EXISTING STORM DRAIN SYSTEMS. (SEE SWPPP PLANS & TPDES BOOK).
 - THE CONTRACTOR SHALL OBTAIN GRADES SHOWN HEREON WITHIN +/- ONE-TENTH (0.10) FOOT.
 - IN PROPOSED PAVING AREAS, STREET DESIGN PLANS SHALL CONTROL. ALL EARTHEN SLOPES SHALL BE A MAXIMUM OF 3:1 AND A MINIMUM OF 1.0% UNLESS OTHERWISE SHOWN.
 - THE CONTRACTOR SHALL PROVIDE A SMOOTH TRANSITION BETWEEN EXISTING SITE AND PROPOSED IMPROVEMENTS.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING TO ITS ORIGINAL, OR BETTER, CONDITION ANY DAMAGE DONE TO EXISTING TREES, BUILDINGS, UTILITIES, FENCES, PAVEMENT, CURBS, OR DRIVEWAYS (NO SEPARATE PAY ITEMS).
 - THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN WORKING NEAR UTILITIES, GAS LINES, SEWER, OR EXISTING APPURTENANCES. PRIOR TO PERFORMING ANY EXCAVATION, CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES AND ASSURE HIMSELF THAT ALL UTILITIES HAVE BEEN ADEQUATELY LOCATED AND IDENTIFIED. THE ENGINEER SHALL BE NOTIFIED IF ANY UTILITY CONFLICTS ARE DISCOVERED.
 - UTILITIES SHOWN ON THE PLANS ARE FROM INFORMATION SOURCES AVAILABLE AT THE TIME OF DESIGN BUT MAY NOT REPRESENT ALL EXISTING UTILITIES ON SITE. THE CONTRACTOR WILL BE RESPONSIBLE FOR DETERMINING EXACT LOCATION OF ALL UTILITIES WHETHER SHOWN ON THE PLANS OR NOT. THE CONTRACTOR SHALL UNCOVER EXISTING UTILITIES PRIOR TO CONSTRUCTION AND VERIFY SIZE, GRADE, AND LOCATION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY OF ANY DEVIATIONS FROM PLANS PRIOR TO BEGINNING CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES, WHETHER SHOWN ON THE PLANS OR NOT, SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR, AT HIS OWN EXPENSE.
 - POSITIVE DRAINAGE SHALL BE MAINTAINED THROUGHOUT THE SCOPE OF THE PROJECT. DRAINAGE SHALL BE DIRECTED AWAY FROM ALL BUILDING FOUNDATIONS. CONTRACTOR SHOULD TAKE PRECAUTIONS NOT TO ALLOW ANY PONDING OF WATER.
 - FOR FILL PLACEMENT ON HILL SIDES OR STEEP SLOPE AREAS, THE CONTRACTOR SHALL REFERENCE THE PROJECT SPECIFICATIONS AND GEOTECHNICAL REPORT FOR SPECIAL INSTRUCTIONS REGARDING BENCHING.
 - NO WORK SHALL BE PERFORMED IN A PUBLIC RIGHT-OF-WAY WITHOUT A PERMIT.

DATE

NO. REVISION

11/11/23

PAPE-DAWSON
ENGINEERS

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 HW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #1008800

STONE GARDEN - UNIT 2A
BEXAR COUNTY, TEXAS

OVERALL GRADING PLAN

PLAT NO. 22-11800734

JOB NO. 12482-04

DATE AUGUST 2023

DESIGNER JG

CHECKED DW DRAWN TC

SHEET C7.03

Attachments



Chalk Cave STA 3+50 Collection Site

Figure 1



Chalk Cave STA 3+50 Phenolphthalein Test Closeup

Figure 2

Attachments



Chalk Cave STA 3+50 Phenolphthalein Test Zoomed out

Figure 3



Granite Garden STA 11+00 Collection Site

Figure 4

Attachments



Granite Garden STA 11+00 Phenolphthalein Test

Figure 5



ECS Southwest, LLP
 431 Isom Road, Suite 114
 San Antonio, TX 78216
T 210.528.1430
F 214.483.9684

LETTER OF TRANSMITTAL

August 18, 2025
 Lennar
 100 NE Loop 410 Suite 1155
 San Antonio, TX 78216
 ATTN: Mr. Nathan Nowell

RE: **Stone Garden - Unit 2A**
 ECS Job # **20:1910**
 Permits:
 Location: **14395 Old Corpus Christi Road**
Elmendorf, TX 78112

☒ Field Reports ☒ For your use ☒ As requested

CC: Lennar - Rogelio "Roy" Olivarez, Jr.

ENCL: Field Report # 83 8/15/2025 Lime gradation and Lime procto

Adam James Heiman, P.E.
 Assistant Office Manager

Stephanie Marie Chavez
 CMT Project Professional I

Disclaimer

1. This report (and any attachments) shall not be reproduced except in full without prior written approval of ECS.
2. The information in this report relates only to the activities performed on the report date.
3. Where appropriate, this report includes statements as to compliance with applicable project drawings, and specifications for the activities, performed on this report date.
4. Incomplete or non-conforming work will be reported for future resolution.
5. The results of samples and/or specimens obtained or prepared for subsequent laboratory testing will be presented in separate reports/documents.

**ECS Southwest, LLP**

431 Isom Road, Suite 114

San Antonio, TX 78216

T 210.528.1430

F 214.483.9684

FIELD REPORT

Project **Stone Garden - Unit 2A**
 Location **Elmendorf, TX**
 Client **Lennar**
 Contractor **Lennar**

Project No. **20:1910**
 Report No. **83**
 Day & Date **Friday 8/15/2025**
 Weather **100 % Sunny**
 On-Site Time **3.00**
 Lab Time **1.00**
 Travel Time* **1.00**
 Total **5.00**
 Re Obs Time **0.00**

Remarks **Lime gradation and Lime procto**

Trip Charges*	35.00	Tolls/Parking*		Mileage*		Time of Arrival	Departure
Chargeable Items						11:00A	2:00P

* Travel time and mileage will be billed in accordance with the contract.

Summary of Services Performed (field test data, locations, elevations & depths are estimates) & Individuals Contacted.

The undersigned arrived on-site, as requested to perform gradations for the lime treated subgrade for Gabro Cove and Granite Garden. Please see the attached sketch.

The applicable plans and geotechnical report were reviewed prior to testing. TxDOT Item 260 was performed for lime treated subgrade gradations. Sieve gradations appeared to meet the specifications.

SOIL SAMPLE PICK UP:

While on site, as requested, the undersigned obtained 2 samples of lime treated subgrade material for testing in our laboratory. The sample was obtained from the processed lime treated subgrade.

Locations:

Gabro Cove near station 3+00

Granite Garden near station 7+00

The two (2) samples were obtained and approximately 2 buckets of each of the material was obtained and returned to the laboratory for testing.

Additionally, the undersigned obtained one (1) sample of A2 base material for testing in our laboratory. The sample was obtained from the on-site intersection of Mudstone Place and Hornblende Trails and will be used for base material for roadways.

Prior to departure, Vince Arriaga with V.K. Knowlton was informed of the results of the day's observations.

Gabbro Cove Stabilization Field Gradation Test 1

Sieve no.	Sieve Opening (mm)	Mass of Soil retained (lb.)	Percent of mass retained (%)	Cumulative percent retained (%)	Percent finer passing (%)
1-3/4"	45.000	0.00	0.00	0.00	100.00
3/4"	19.000	0.22	2.20	2.20	97.80
#4	4.750	3.02	30.20	32.40	69.80
pan	0.00	6.69	66.90	99.30	0.70
Total Mass (10lb)		10.00			

Granite Garden Stabilization Field Gradation Test 2

Sieve no.	Sieve Opening (mm)	Mass of Soil retained (lb.)	Percent of mass retained (%)	Cumulative percent retained (%)	Percent finer passing (%)
1-3/4"	45.000	0.00	0.00	0.00	100.00
3/4"	19.000	0.01	1.80	1.80	98.20
#4	4.750	2.88	30.20	32.00	69.80
pan	0.00	7.10	68.00	100.00	0.00
Total Mass (10lb)		10.00			

Stabilization Field Gradation Test 3

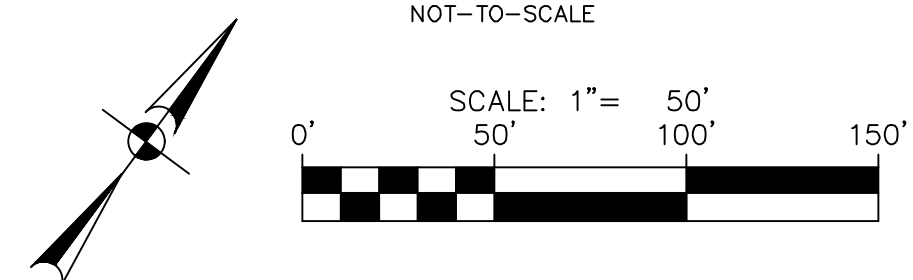
Sieve no.	Sieve Opening (mm)	Mass of Soil retained (lb.)	Percent of mass retained (%)	Cumulative percent retained (%)	Percent finer passing (%)
1-3/4"	45.000	0.00	0.00	0.00	100.00
3/4"	19.000	0.00	0.00	0.00	100.00
#4	4.750	0.00	0.00	0.00	100.00
pan	0.00	0.00	0.00	0.00	100.00
Total Mass (10lb)		10.00			

Gradation Requirements (Minimum % Passing)

Sieve Size	Subgrade
1-3/4"	100.00
3/4"	85.00
#4	60.00

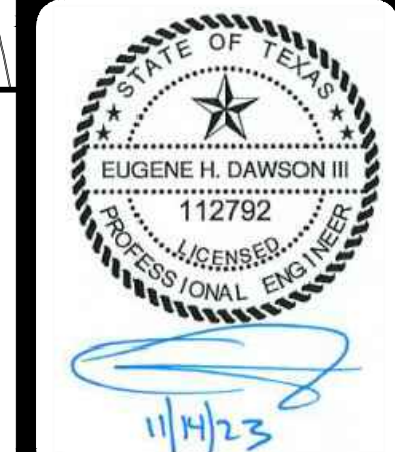


Transmittal Page 4/8



GRADING NOTES:

- [illegible]



**PAPE-DAWSON
ENGINEERS**

SAO SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
20000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10228600

STONE GARDEN - UNIT 2A
BEXAR COUNTY, TEXAS
OVERALL GRADING PLAN

PLAT NO. 22-11800734
JOB NO. 12482-04
DATE AUGUST 2023
DESIGNER JG
CHECKED DW DRAWN TC
SHEET C7.04

Attachments



lime gradations and proctor pick up

Figure 1



lime gradations and proctor pick up

Figure 2

Attachments



lime gradations and proctor pick up

Figure 3



lime gradations

Figure 4

Attachments



lime gradations

Figure 5



lime gradations

Figure 6

Attachments



lime gradations

Figure 7



lime gradations

Figure 8



ECS Southwest, LLP
 431 Isom Road, Suite 114
 San Antonio, TX 78216
 T 210.528.1430
 F 214.483.9684

LETTER OF TRANSMITTAL

August 22, 2025
 Lennar
 100 NE Loop 410 Suite 1155
 San Antonio, TX 78216
 ATTN: Mr. Nathan Nowell

RE: **Stone Garden - Unit 2A**
 ECS Job # **20:1910**
 Permits:
 Location: **14395 Old Corpus Christi Road**
Elmendorf, TX 78112

☒ Field Reports ☒ For your use ☒ As requested

CC: City of San Antonio - Development Services
 Department - Juan Ramirez

Lennar - Rogelio "Roy" Olivarez, Jr.
 V.K. Knowlton Construction - Sammy Ramos

ENCL:

Laboratory testing services have been completed for the following sample obtained by ECS on 08/14/2025(reference report 20:1952-81).

On-site Lime-Stabilized Material:

ID: D4S-7:for Dacit Place STA 2+50- Atterberg Limits (SP), Sieve Analysis, and Standard Proctor

ID: D4S-8:for Quartz Cove STA 12+00- Atterberg Limits (SP), Sieve Analysis, and Standard Proctor

ID: D4S-9:for Quartz Cove STA 5+00- Atterberg Limits (SP), Sieve Analysis, and Standard Proctor

Results:

Material meets criteria for Lime-Stabilized for: type, gradation and plasticity.

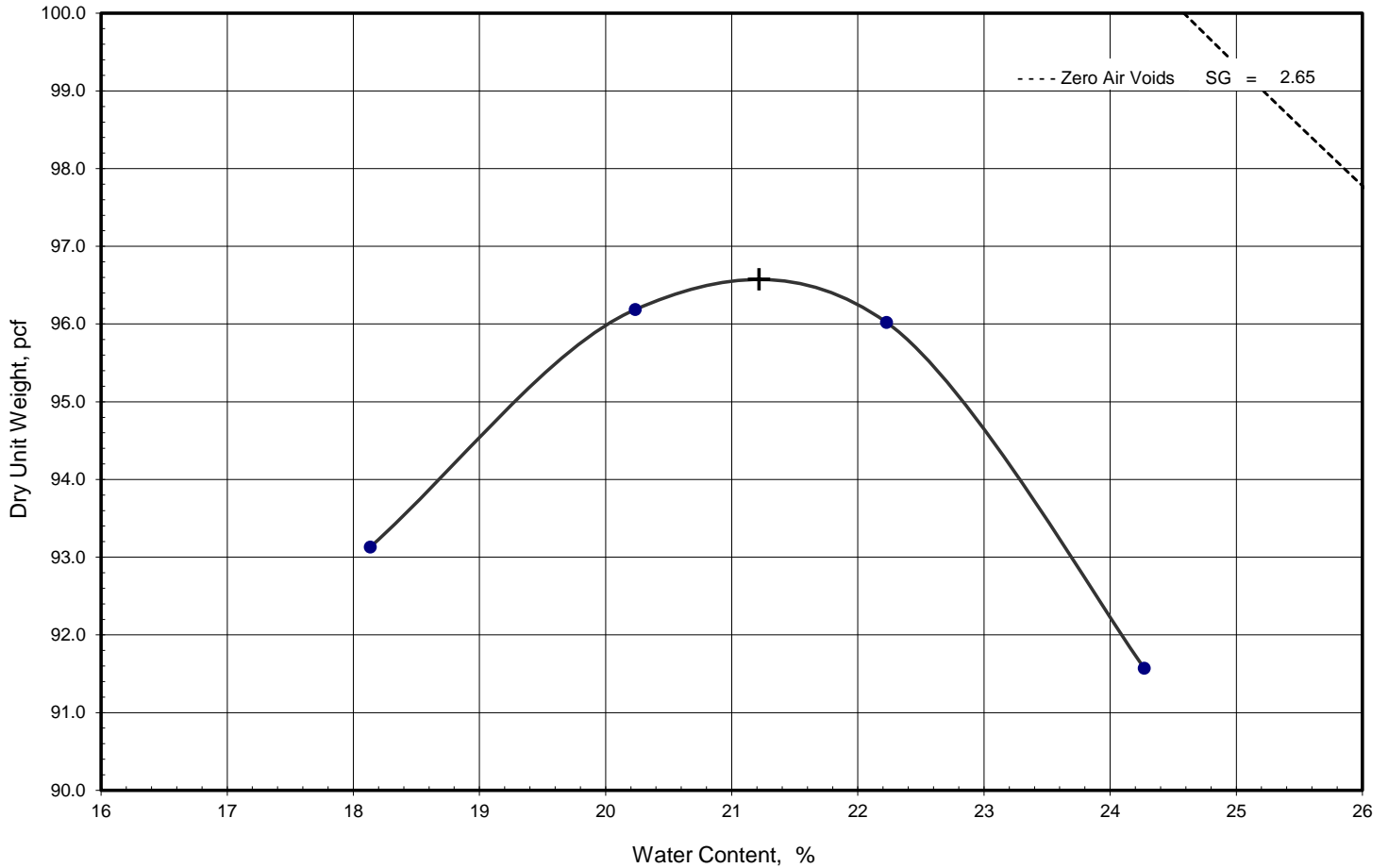
Adam James Heiman, P.E.
 Assistant Office Manager

Stephanie Marie Chavez
 CMT Project Professional I

Disclaimer

1. This report (and any attachments) shall not be reproduced except in full without prior written approval of ECS.
2. The information in this report relates only to the activities performed on the report date.
3. Where appropriate, this report includes statements as to compliance with applicable project drawings, and specifications for the activities, performed on this report date.
4. Incomplete or non-conforming work will be reported for future resolution.
5. The results of samples and/or specimens obtained or prepared for subsequent laboratory testing will be presented in separate reports/documents.

Laboratory Compaction Characteristics of Soil Using Standard Effort



Optimum Moisture Content

21.2 %

Maximum Dry Unit Weight

96.6 pcf

Preparation

ASTM moist preparation

Type of rammer

Mechanical - circular face

Test Specification / Method

ASTM D698-12e2-method A

Soil Description

Nat.
Moist. %

Liquid Limit

Plasticity
Index

% < #200

USCS

AASHTO

(SM) SILTY SAND, Reddish Brown

12.4

NP

NP

10.4

A-2-4

Project: Stone Garden - Unit 2A

Client: Lennar

Sample / Source: On-site Lime stabilized material at Dacit PI STA 2+50

Project No.: 20:1910

Depth (ft.): 0 - 1

Sample No.: D4S-7

Date Reported: 8/21/2025



Office / Lab

Address

Office Number / Fax

ECS Southwest LLP - San Antonio

431 Isom Road
Suite 114
San Antonio, TX 78216

(210)528-1430
(214)483-9684

Tested by

Checked by

Approved by

Date Received

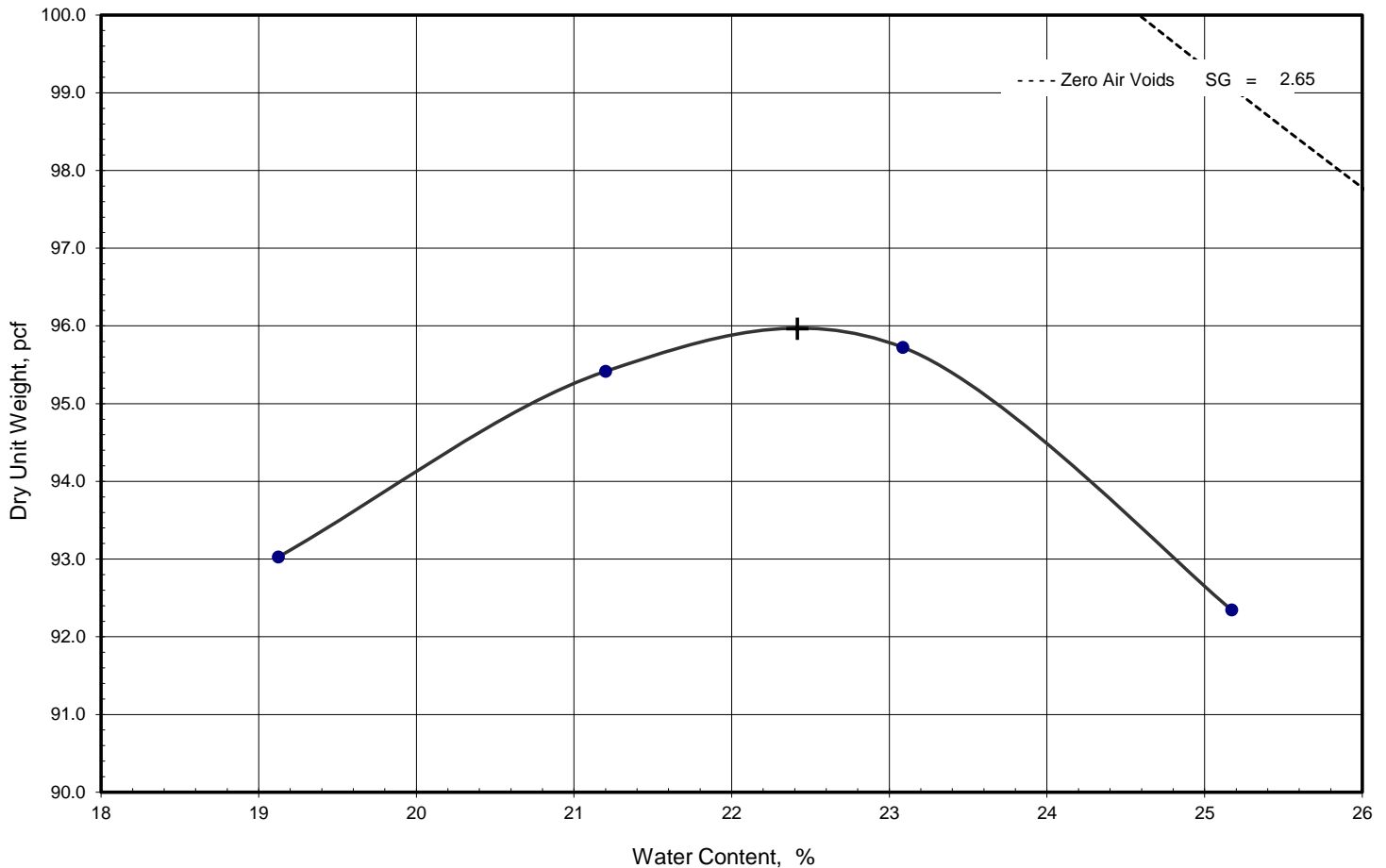
Remarks

fzuniga

fzuniga

fzuniga

Laboratory Compaction Characteristics of Soil Using Standard Effort



Optimum Moisture Content

22.4 %

Maximum Dry Unit Weight

96.0 pcf

Preparation

ASTM moist preparation

Type of rammer

Mechanical - circular face

Test Specification / Method

ASTM D698-12e2-method A

Soil Description

Nat.
Moist. %

Liquid Limit

Plasticity
Index

% < #200

USCS

AASHTO

(SM) SILTY SAND, Reddish Brown

13.9

NP

NP

12.9

A-2-4

Project: Stone Garden - Unit 2A

Client: Lennar

Sample / Source: On-site Lime stabilized material at Quartz Cove STA 12+00

Project No.: 20:1910

Depth (ft.): 0 - 1

Sample No.: D4S-8

Date Reported: 8/21/2025



Office / Lab

Address

Office Number / Fax

ECS Southwest LLP - San Antonio

431 Isom Road
Suite 114
San Antonio, TX 78216

(210)528-1430
(214)483-9684

Tested by

Checked by

Approved by

Date Received

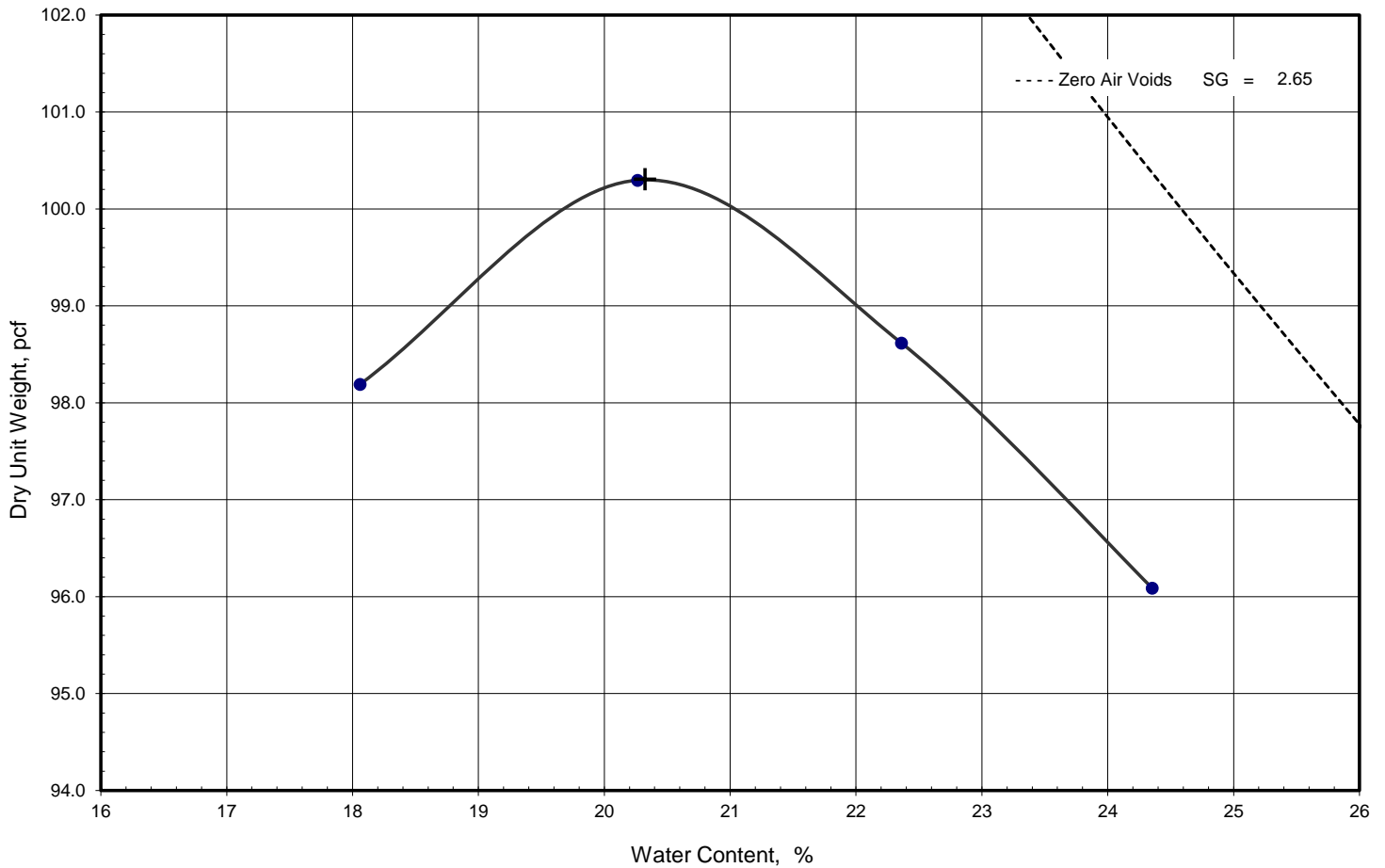
Remarks

fzuniga

fzuniga

fzuniga

Laboratory Compaction Characteristics of Soil Using Standard Effort



Optimum Moisture Content

20.3 %

Maximum Dry Unit Weight

100.3 pcf

Preparation

ASTM moist preparation

Type of rammer

Mechanical - circular face

Test Specification / Method

ASTM D698-12e2-method A

Soil Description

Nat.
Moist. %

Liquid Limit

Plasticity
Index

% < #200

USCS

AASHTO

(SM) SILTY SAND, Reddish Brown

13.1

NP

NP

25.0

A-2-4

Project: Stone Garden - Unit 2A

Client: Lennar

Sample / Source: On-site Lime stabilized material at Quartz Cove STA 5+00

Project No.: 20:1910

Depth (ft.): 0 - 1

Sample No.: D4S-9

Date Reported: 8/21/2025



Office / Lab

Address

Office Number / Fax

ECS Southwest LLP - San Antonio

431 Isom Road
Suite 114
San Antonio, TX 78216

(210)528-1430
(214)483-9684

Tested by

Checked by

Approved by

Date Received

Remarks

fzuniga

fzuniga

fzuniga



ECS Southwest, LLP
 431 Isom Road, Suite 114
 San Antonio, TX 78216
T 210.528.1430
F 214.483.9684

LETTER OF TRANSMITTAL

August 25, 2025

Lennar

100 NE Loop 410 Suite 1155

San Antonio, TX 78216

ATTN: Mr. Nathan Nowell

RE: **Stone Garden - Unit 2A**

ECS Job # **20:1910**

Permits:

Location: **14395 Old Corpus Christi Road
 Elmendorf, TX 78112**

☒

Field Reports

☒

For your use

☒

As requested

CC: City of San Antonio - Development Services
 Department - Juan Ramirez

Lennar - Rogelio "Roy" Olivarez, Jr.
 V.K. Knowlton Construction - Sammy Ramos

ENCL: Field Report # 84 8/25/2025 Lime gradation and Lime procto

Adam James Heiman, P.E.
 Assistant Office Manager

Stephanie Marie Chavez
 CMT Project Professional I

Disclaimer

1. This report (and any attachments) shall not be reproduced except in full without prior written approval of ECS.
2. The information in this report relates only to the activities performed on the report date.
3. Where appropriate, this report includes statements as to compliance with applicable project drawings, and specifications for the activities, performed on this report date.
4. Incomplete or non-conforming work will be reported for future resolution.
5. The results of samples and/or specimens obtained or prepared for subsequent laboratory testing will be presented in separate reports/documents.

**ECS Southwest, LLP**

431 Isom Road, Suite 114

San Antonio, TX 78216

T 210.528.1430

F 214.483.9684

FIELD REPORT

Project **Stone Garden - Unit 2A**
 Location **Elmendorf, TX**
 Client **Lennar**
 Contractor **Lennar**

Project No. **20:1910**
 Report No. **84**
 Day & Date **Monday 8/25/2025**
 Weather **90 °/ Partly Cloudy**
 On-Site Time **4.50**
 Lab Time **0.75**
 Travel Time* **1.00**
 Total **6.25**
 Re Obs Time **0.00**

Remarks **Lime gradation and Lime procto**

Trip Charges*	35.00	Tolls/Parking*		Mileage*		Time of Arrival	Departure
Chargeable Items	5000					10:00A	2:30P

* Travel time and mileage will be billed in accordance with the contract.

Summary of Services Performed (field test data, locations, elevations & depths are estimates) & Individuals Contacted.

The undersigned arrived on-site, as requested to perform gradations for the lime treated subgrade for Quartz Cove and Dacite Place. Please see the attached sketch.

The applicable plans and geotechnical report were reviewed prior to testing. TxDOT Item 260 was performed for lime treated subgrade gradations. Sieve gradations appeared to meet the specifications.

While on site, as requested, the undersigned obtained 3 samples of lime treated subgrade material for testing in our laboratory. The sample was obtained from the processed lime treated subgrade.

Locations:

Place near station 2+50

Azzurro Stone near stations 5+00 and 11+00

The three (3) samples were obtained and approximately 2 buckets of each of the material was obtained and returned to the laboratory for testing.

Prior to departure, Vence Arriaga with V.K. Knowlton was informed of the results of the day's observations.



Field Compaction Summary, D6938

Project No: 20:1910

Project Name: Stone Garden - Unit 2A

Date: 8/25/2025

ECS Southwest, LLP

Client: Lennar

Contractor: Lennar

Technician: Nathan Allen

Test Method D6938			
Nuclear Gauge No. 78650			
Make	Troxler	Density Std	2265
Model	3430P	Moisture Std	665
Ser. No.	78650		

Sample No.				Description			Proctor Method					Uncorrected Max. Density			Uncorrected Optimum Moisture Content	
D4S-9				(SM) SILTY SAND, Reddish Brown			ASTM D698-12e2-method A					100.3			20.3	
D4S-7				(SM) SILTY SAND, Reddish Brown			ASTM D698-12e2-method A					96.6			21.2	
Test No.	Lot No.	Test Mode	Probe Depth (in.)	Station / Location	Lift / Elev	Sample No.	% Oversize	Corrected Max. Density	Corrected Optimum Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Moisture Content (%)	Percent Comp. (%)	P / F	Comments	
1		DT	6	T1 Quartz Cove STA 14+00	Subgrade	D4S-9	0.00	100.3	20.3	117.0	98.0	19.4	97.7	P		
2		DT	6	T2 Quartz Cove STA 12+50	Subgrade	D4S-9	0.00	100.3	20.3	122.0	102.4	19.1	102.1	P		
3		DT	6	T3 Quartz Cove STA 11+00	Subgrade	D4S-9	0.00	100.3	20.3	119.8	101.0	18.6	100.7	P		
4		DT	6	T4 Quartz Cove STA 9+50	Subgrade	D4S-9	0.00	100.3	20.3	121.6	101.3	20.0	101.0	P		
5		DT	6	T5 Quartz Cove STA 8+00	Subgrade	D4S-9	0.00	100.3	20.3	119.4	99.7	19.8	99.4	P		
6		DT	6	T6 Quartz Cove STA 6+50	Subgrade	D4S-9	0.00	100.3	20.3	118.5	97.7	21.3	97.4	P		
7		DT	6	T7 Quartz Cove STA 5+00	Subgrade	D4S-9	0.00	100.3	20.3	120.5	100.8	19.5	100.5	P		
8		DT	6	T8 Quartz Cove STA 3+50	Subgrade	D4S-9	0.00	100.3	20.3	120.0	101.0	18.8	100.7	P		
9		DT	6	T9 Quartz Cove STA 2+00	Subgrade	D4S-9	0.00	100.3	20.3	117.1	95.9	22.1	95.6	P		
10		DT	6	T10 Dacite Place STA 2+00	Subgrade	D4S-7	0.00	96.6	21.2	118.7	97.4	21.9	100.8	P		

**Field Compaction Summary, D6938**

Project No: 20:1910

Project Name: Stone Garden - Unit 2A

Date: 8/25/2025

ECS Southwest, LLP

Client: Lennar

Contractor: Lennar

Technician: Nathan Allen

Test Method D6938			
Nuclear Gauge No. 78650			
Make	Troxler	Density Std	2265
Model	3430P	Moisture Std	665
Ser. No.	78650		

Test No.	Lot No.	Test Mode	Probe Depth (in.)	Station / Location	Lift / Elev	Sample No.	% Oversize	Corrected Max. Density	Corrected Optimum Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Moisture Content (%)	Percent Comp. (%)	P / F	Comments
11		DT	6	T11 Dacite Place STA 3+50	Subgrade	D4S-7	0.00	96.6	21.2	114.0	92.7	23.0	96.0	P	
12		DT	6	T12 Dacite Place STA 5+00	Subgrade	D4S-7	0.00	96.6	21.2	117.7	98.7	19.2	102.2	P	

REPORT OF LIME TREATED SUBGRADE FIELD GRADATIONS

Project: Stone Garden **Date:** 8/25/25
Project No.: 1910
Sample Location: Azzurro Stone and Basalts Garden
Sample Description: Lime treated subgrade

Azzurro Stone Station 11+00 Stabilization Field Gradation Test 1

Sieve no.	Sieve Opening (mm)	Percent of mass retained (%)	Percent finer passing (%)
1-3/4"	45.000	0.00	100.00
3/4"	19.000	2.90	97.10
#4	4.750	29.60	70.40
Pan	0.00	67.50	0.00

Azzurro Stone Station 5+00 Stabilization Field Gradation Test 2

Sieve no.	Sieve Opening (mm)	Percent of mass retained (%)	Percent finer passing (%)
1-3/4"	45.000	0.00	100.00
3/4"	19.000	5.60	94.40
#4	4.750	27.60	72.40
Pan	0.00	66.80	0.00

Basalts Garden Station 1+00 Stabilization Field Gradation Test 3

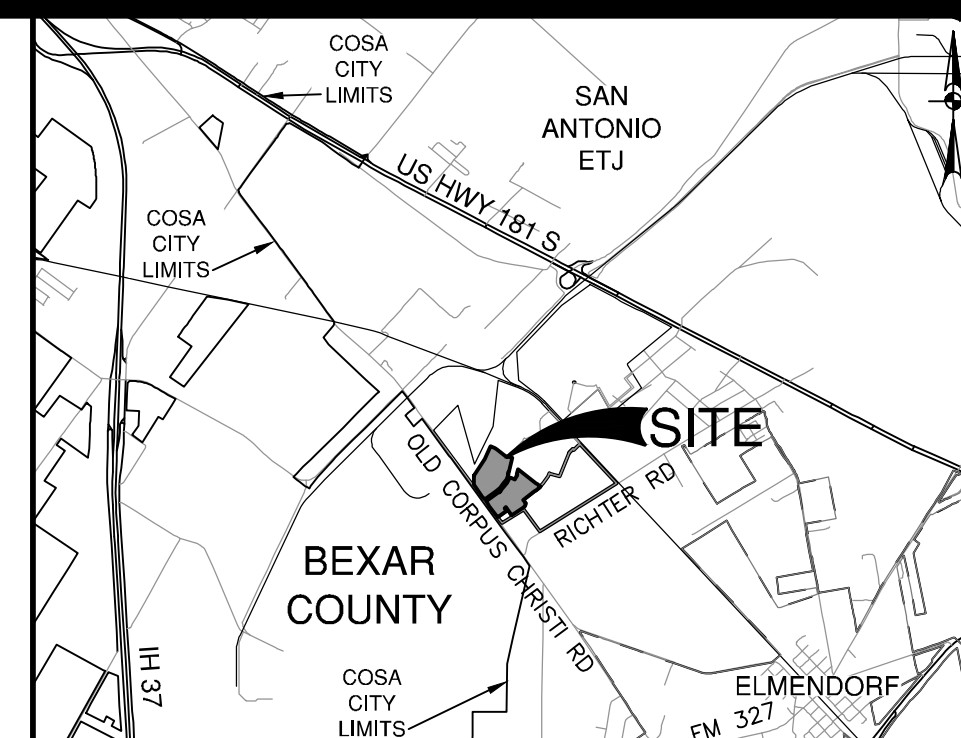
Sieve no.	Sieve Opening (mm)	Percent of mass retained (%)	Percent finer passing (%)
1-3/4"	45.000	0.00	100.00
3/4"	19.000	5.00	95.00
#4	4.750	29.70	70.30
Pan	0.00	65.30	0.00

Gradation Requirements (Minimum % Passing)

Sieve Size	
1-3/4"	100
3/4"	85
#4	60

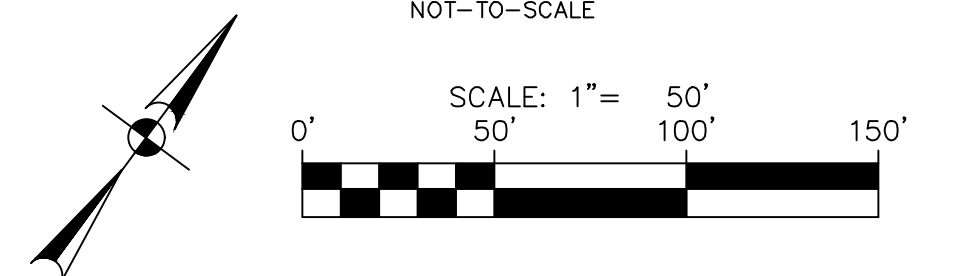
REMARKS: * Field gradations meet the projects minimum requirements.

Project: 1910 Stone Garden - Unit 2A
Task: FDTs for road subgrade
Date: 8/25/25
Tech: Nathanael Allen



LOCATION MAE

NOT-TO-SCALE



GRADING LEGEND

PROJECT LIMITS

100 YR FLOODPLAIN

EXISTING CONTOUR

PROPOSED CONTOUR

FLOW ARROW (EXISTING)

FLOW ARROW (PROPOSED)

MINIMUM FINISHED FLOOR ELEVATION

TREES TO REMAIN

TREES TO BE REMOVED

VEHICULAR NON ACCESS EASEMENT

Diagram Description: The diagram shows a plan view of a project area. At the top, a dashed line represents the 'PROJECT LIMITS'. Below it, a solid line represents the '100 YR FLOODPLAIN'. Further down, a dashed line represents the 'EXISTING CONTOUR' with an elevation of '-9.76'. Below that, a solid line represents the 'PROPOSED CONTOUR' with an elevation of '-9.70'. Two flow arrows are shown: a grey arrow for 'FLOW ARROW (EXISTING)' and a black arrow for 'FLOW ARROW (PROPOSED)'. A box labeled 'FF = XXXX.XX' indicates the 'MINIMUM FINISHED FLOOR ELEVATION'. Two tree symbols are shown: a green one for 'TREES TO REMAIN' and a red one for 'TREES TO BE REMOVED'. At the bottom, a dashed line represents the 'VEHICULAR NON ACCESS EASEMENT' (VNAE).

GRADING NOTES:

1. ALL MATERIALS AND CONSTRUCTION PROCEDURES WITHIN THIS SCOPE OF WORK WHERE NOT SPECIFICALLY COVERED IN THE SPECIFICATIONS OR GEOTECHNICAL REPORT SHALL CONFORM TO ALL APPLICABLE CITY, COUNTY AND TxDOT STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (LATEST EDITION).
2. SITE PREPARATION, GRADING, EXCAVATION AND FILL SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT GEOTECHNICAL REPORT AND SPECIFICATIONS.
3. ALL SELECT FILL MATERIAL PROVIDED SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACING AND COMPACTING.
4. ALL ELEVATIONS AND PROPOSED CONTOURS SHOWN ON THIS GRADING PLAN REFLECT FINISHED GRADES. THE THICKNESS OF PAVING, BASE, GRASS, TOPSOIL, AND MULCH MUST BE SUBTRACTED TO OBTAIN SUBGRADE ELEVATIONS.
5. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY QUESTIONS THAT MAY ARISE CONCERNING THE INTENT, PLACEMENT, OR LIMIT OF DIMENSIONS OR GRADES NECESSARY FOR CONSTRUCTION OF THIS PROJECT.
6. THE CONTRACTOR SHALL VERIFY THE SUITABILITY OF ALL EXISTING AND PROPOSED SITE CONDITIONS INCLUDING GRADES AND DIMENSIONS BEFORE COMMENCEMENT OF CONSTRUCTION. THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACQUIRING ALL PERMITS, TESTS, APPROVALS AND ACCEPTANCES REQUIRED TO COMPLETE CONSTRUCTION OF THIS PROJECT.
8. THE CONTRACTOR SHALL REMOVE TOP SOIL, GRASS, ROOTS, DEBRIS, ETC. AND DISPOSE OFF SITE. THOSE MATERIALS NOT SUITABLE FOR EMBANKMENT AND NOT SUITABLE FOR CLEAN STRIPPINGS AND TOPSOIL MAY BE STOCKPILED ON SITE FOR REUSE IN A LOCATION SPECIFIED BY THE OWNER.
9. THE SITE CONTRACTOR SHALL BE RESPONSIBLE FOR SITE STABILIZATION. ALL DISTURBED AREAS SHALL BE REVEGETATED IN ACCORDANCE WITH PROJECT SPECIFICATIONS AND TPDES/SWPPP REQUIREMENTS. REFERENCE THE LANDSCAPE ARCHITECT'S PLAN, IF APPLICABLE.
10. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS (USE OF SILT FENCES, ETC.) TO KEEP DRAINAGE AND SILT FROM WASHING ONTO ADJACENT PROPERTY, STREETS, OR DRAINAGE WAYS. CONTRACTOR SHALL MAINTAIN REMOTE EROSION SUBSIDIES WHICH WASH OFFSITE OR INTO EXISTING STORM DRAIN SYSTEMS. (SEE SWPPP PLANS & TPDES BOOK).
11. THE CONTRACTOR SHALL OBTAIN GRADES SHOWN HEREON WITHIN $\pm 1/8$ ONE-TENTH (0.10) FOOT.
12. IN PROPOSED PAVING AREAS, STREET DESIGN PLANS SHALL CONTROL. ALL EARTHEN SLOPES SHALL BE A MAXIMUM OF 3:1 AND A MINIMUM OF 1:06 UNLESS OTHERWISE SHOWN.
13. THE CONTRACTOR SHALL PROVIDE A SMOOTH TRANSITION BETWEEN EXISTING SITE AND PROPOSED IMPROVEMENTS.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING TO ITS ORIGINAL CONDITION ANY DAMAGE DONE TO EXISTING TREES, BUILDINGS, UTILITIES, FENCES, PAVEMENT, CURBS, OR DRIVEWAYS (NO SEPARATE PAY ITEMS).
15. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN WORKING NEAR UTILITIES, GAS LINES, SEWER, OR EXISTING APPURTENANCES. PRIOR TO PERFORMING ANY EXCAVATION, CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES AND ASSURE HIMSELF THAT ALL UTILITIES HAVE BEEN ADEQUATELY LOCATED PRIOR TO BEGINNING CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES, WHETHER SHOWN ON THE PLANS OR NOT, SHALL BE THE CONTRACTORS RESPONSIBILITY TO REPAIR, AT HIS OWN EXPENSE.
16. POSITIVE DRAINAGE SHALL BE MAINTAINED THROUGHOUT THE SCOPE OF THE PROJECT. DRAINAGE SHALL BE DIRECTED AWAY FROM ALL BUILDING FOUNDATIONS. CONTRACTOR SHALL TAKE PRECAUTIONS NOT TO ALLOW ANY FLOW OF WATER.
17. FOR FILL PLACEMENT NEAR SLOPES OR STEEP SLOPE AREAS, THE CONTRACTOR SHALL REFER TO THE PROJECT SPECIFICATIONS AND GEOTECHNICAL REPORT FOR SPECIAL INSTRUCTIONS REGARDING BENCHING.
18. NO WORK SHALL BE PERFORMED IN A PUBLIC RIGHT-OF-WAY WITHOUT A PERMIT.



**PAPE-DAWSON
ENGINEERS**

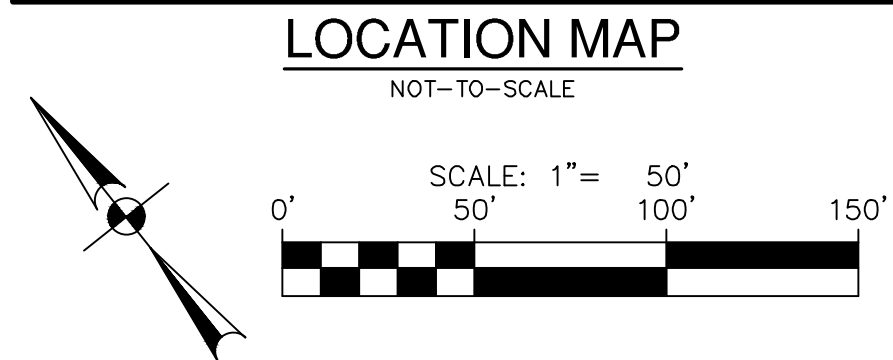
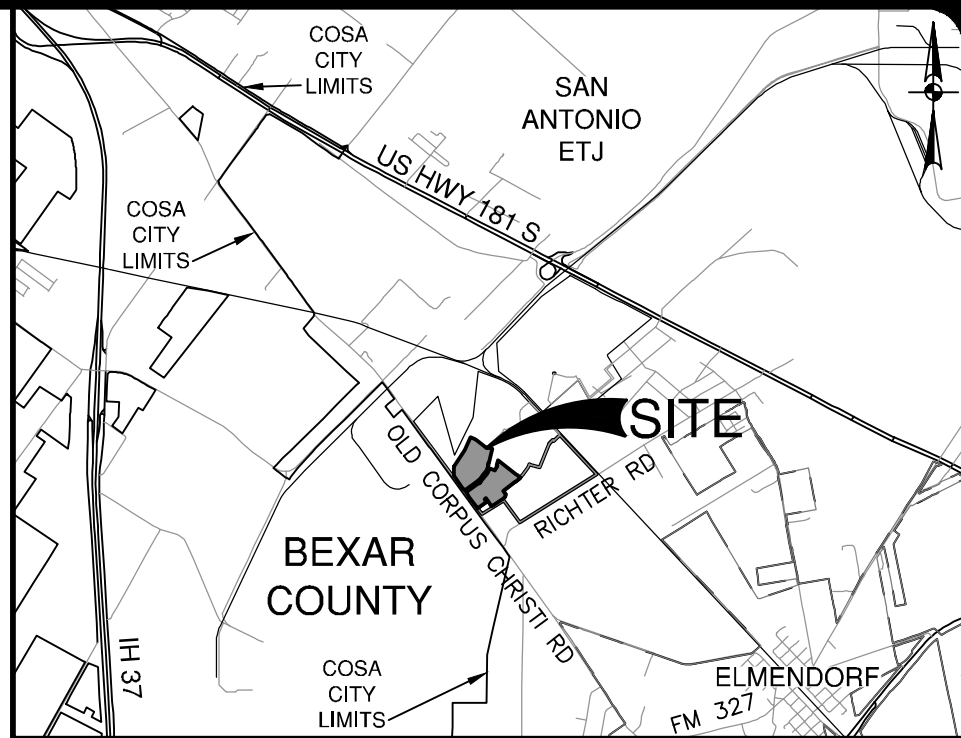
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

STONE GARDEN - UNIT 2A
BEXAR COUNTY, TEXAS

OVERALL GRADING PLAN

PLAT NO. 22-11800734
JOB NO. 12482-04
DATE AUGUST 2023
DESIGNER JG
CHECKED DW DRAWN TC
SHEET C7.03

Project: 1910 Stone Garden
Task: Like gradations and proctor
samples for Azzurro Stone
Date: 8/25/25
Tech: Nathanael Allen



GRADING LEGEND

PROJECT LIMITS	---
100 YR FLOODPLAIN	---
EXISTING CONTOUR	---
PROPOSED CONTOUR	---
FLOW ARROW (EXISTING)	---
FLOW ARROW (PROPOSED)	---
MINIMUM FINISHED FLOOR ELEVATION	FF=XXXX.XX
TREES TO REMAIN	---
TREES TO BE REMOVED	---
VEHICULAR NON ACCESS EASEMENT	VNAE

GRADING NOTES:

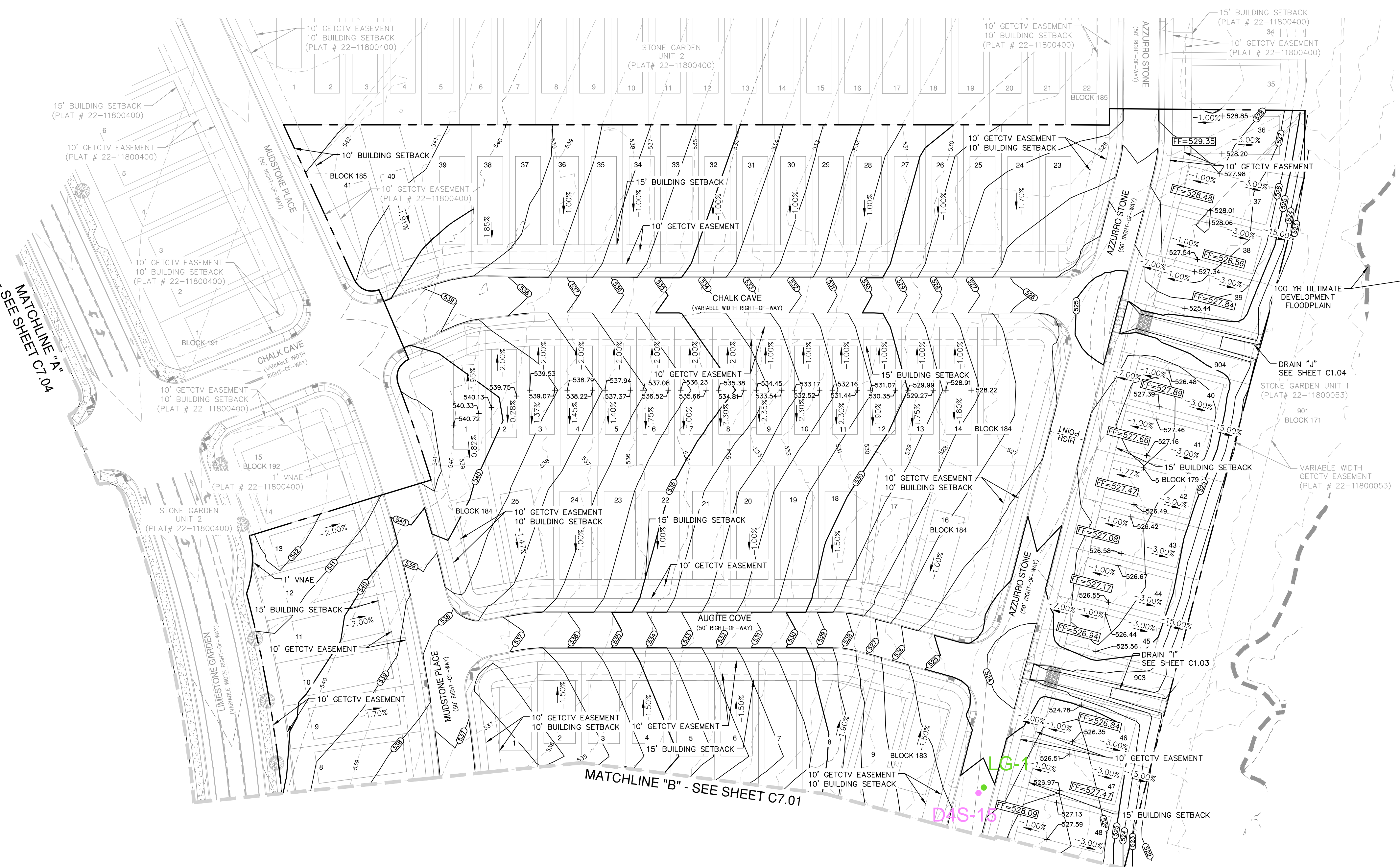
- ALL MATERIALS AND CONSTRUCTION PROCEDURES WITHIN THIS SCOPE OF WORK WHERE NOT SPECIFICALLY COVERED IN THE SPECIFICATIONS OR GEOTECHNICAL REPORT SHALL CONFORM TO ALL APPLICABLE CITY, COUNTY AND TxDOT STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (LATEST EDITION).
- SITE PREPARATION, GRADING, EXCAVATION AND FILL SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT GEOTECHNICAL REPORT AND SPECIFICATIONS.
- ALL SELECT FILL MATERIAL PROVIDED SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACING AND COMPACTING.
- ALL ELEVATIONS AND PROPOSED CONTOURS SHOWN ON THIS GRADING PLAN REFLECT FINISHED GRADES. THE THICKNESS OF PAVING, BASE, GRASS, TOPSOIL, AND MULCH MUST BE SUBTRACTED TO OBTAIN SUBGRADE ELEVATIONS.
- THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY QUESTIONS THAT MAY ARISE CONCERNING THE INTENT, PLACEMENT, OR LIMITS OF DIMENSIONS OR GRADES NECESSARY FOR CONSTRUCTION OF THIS PROJECT.
- THE CONTRACTOR SHALL VERIFY THE SUITABILITY OF ALL EXISTING AND PROPOSED SLOPING CONDITIONS INCLUDING GRADES AND DIMENSIONS BEFORE COMMENCEMENT OF CONSTRUCTION. THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACQUIRING ALL PERMITS, TESTS, APPROVALS AND ACCEPTANCES REQUIRED TO COMPLETE CONSTRUCTION OF THIS PROJECT.
- THE CONTRACTOR SHALL REMOVE TOP SOIL, GRASS, ROOTS, DEBRIS, ETC. AND DISPOSE OFF SITE THOSE MATERIALS NOT SUITABLE FOR EMBANKMENT AND TOPSOIL. CLEAN STRIPPINGS AND TOPSOIL MAY BE STOCKPILED ON SITE FOR REUSE IN A LOCATION SPECIFIED BY THE OWNER.
- THE SITE CONTRACTOR SHALL BE RESPONSIBLE FOR SITE STABILIZATION. ALL DISTURBED AREAS SHALL BE REVEGETATED IN ACCORDANCE WITH PROJECT SPECIFICATIONS AND TPDES/SWPPP REQUIREMENTS. REFERENCE THE LANDSCAPE ARCHITECT'S PLAN, IF APPLICABLE.
- THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS (USE OF SILT FENCES, ETC.) TO KEEP DRAINAGE AND SILT FROM WASHING ONTO ADJACENT PROPERTY, STREETS, OR DRAINAGE WAYS. CONTRACTOR SHALL IMMEDIATELY REMOVE SILT/DEBRIS WHICH WASHES OFFSITE OR INTO EXISTING STORM DRAIN SYSTEMS. (SEE SWPPP PLANS & TPDES BOOK).
- THE CONTRACTOR SHALL OBTAIN GRADES SHOWN HEREON WITHIN +/- ONE-TENTH (0.10) FOOT.
- IN PROPOSED PAVING AREAS, STREET DESIGN PLANS SHALL CONTROL. ALL EARTHEN SLOPES SHALL BE A MAXIMUM OF 3:1 AND A MINIMUM OF 1.0% UNLESS OTHERWISE SHOWN.
- THE CONTRACTOR SHALL PROVIDE A SMOOTH TRANSITION BETWEEN EXISTING SITE AND PROPOSED IMPROVEMENTS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING TO ITS ORIGINAL, OR BETTER, CONDITION ANY DAMAGE DONE TO EXISTING TREES, BUILDINGS, UTILITIES, FENCES, PAVEMENT, CURBS, OR DRIVEWAYS (NO SEPARATE PAY ITEMS).
- THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN WORKING NEAR UTILITIES, GAS LINES, SEWER, OR EXISTING APPURTENANCES. PRIOR TO PERFORMING ANY EXCAVATION, CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES AND ASSURE HIMSELF THAT ALL UTILITIES HAVE BEEN ADEQUATELY LOCATED AND IDENTIFIED. THE ENGINEER SHALL BE NOTIFIED IF ANY UTILITY CONFLICTS ARE DISCOVERED.
- UTILITIES SHOWN ON THE PLANS ARE FROM INFORMATION SOURCES AVAILABLE AT THE TIME OF DESIGN BUT MAY NOT REPRESENT ALL EXISTING UTILITIES ON SITE. THE CONTRACTOR WILL BE RESPONSIBLE FOR DETERMINING EXACT LOCATION OF ALL UTILITIES WHETHER SHOWN ON THE PLANS OR NOT. THE CONTRACTOR SHALL UNCOVER EXISTING UTILITIES PRIOR TO CONSTRUCTION AND VERIFY SIZE, GRADE AND LOCATION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY OF ANY DEVIATIONS FROM PLANS PRIOR TO BEGINNING CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES, WHETHER SHOWN ON THE PLANS OR NOT, SHALL BE THE CONTRACTORS RESPONSIBILITY TO REPAIR, AT HIS OWN EXPENSE.
- POSITIVE DRAINAGE SHALL BE MAINTAINED THROUGHOUT THE SCOPE OF THE PROJECT. DRAINAGE SHALL BE DIRECTED AWAY FROM ALL BUILDING FOUNDATIONS. CONTRACTOR SHOULD TAKE PRECAUTIONS NOT TO ALLOW ANY PONDING OF WATER.
- FOR FILL PLACEMENT ON HILL SIDES OR STEEP SLOPE AREAS, THE CONTRACTOR SHALL REFERENCE THE PROJECT SPECIFICATIONS AND GEOTECHNICAL REPORT FOR SPECIAL INSTRUCTIONS REGARDING BENCHING.
- NO WORK SHALL BE PERFORMED IN A PUBLIC RIGHT-OF-WAY WITHOUT A PERMIT.

PAPE-DAWSON
ENGINEERS

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 HW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #170 | TEXAS SURVEYING FIRM #10088600

STONE GARDEN - UNIT 2A
BEXAR COUNTY, TEXAS
OVERALL GRADING PLAN

PLAT NO. 22-11800734
JOB NO. 12482-04
DATE AUGUST 2023
DESIGNER JG
CHECKED DW DRAWN TC
SHEET C7.02



Attachments



Quartz cove lime treated subgrade near station 11+00

Figure 1



Dacite Place like treated subgrade near station 2+00

Figure 2

Attachments



Quartz cove station marker by contractor

Figure 3



Lime mixer near Azzurro Stone

Figure 4

Attachments



Lime treated subgrade proctor collection at Azzurro Stone near station 5+00

Figure 5



Lime treated subgrade at Bassalts Garden near station 1+00

Figure 6

Attachments



Azzurro Stone like treated subgrade near station 11+00

Figure 7



ECS Southwest, LLP
 431 Isom Road, Suite 114
 San Antonio, TX 78216
T 210.528.1430
F 214.483.9684

LETTER OF TRANSMITTAL

August 26, 2025
 Lennar
 100 NE Loop 410 Suite 1155
 San Antonio, TX 78216
 ATTN: Mr. Nathan Nowell

RE: **Stone Garden - Unit 2A**
 ECS Job # **20:1910**
 Permits:
 Location: **14395 Old Corpus Christi Road**
Elmendorf, TX 78112

☒ Field Reports ☒ For your use ☒ As requested

CC: City of San Antonio - Development Services
 Department - Juan Ramirez

Lennar - Rogelio "Roy" Olivarez, Jr.
 V.K. Knowlton Construction - Sammy Ramos

ENCL:

Laboratory testing services have been completed for the following sample obtained by ECS on 08/15/2025 and 8/16/2025 (reference report 20:1952-82 and 20:1952-83).

On-site Lime-Stabilized Material:

ID: D4S-10:for Gabro Cove STA 3+00- Atterberg Limits (SP), Sieve Analysis, and Standard Proctor

ID: D4S-11:for Granite Garden STA 7+00- Atterberg Limits (SP), Sieve Analysis, and Standard Proctor

ID: D4S-13:for Granite Garden STA 11+00- Atterberg Limits (SP), Sieve Analysis, and Standard Proctor

ID: D4S-14:for Chalk Cave STA 3+50- Atterberg Limits (SP), Sieve Analysis, and Standard Proctor

Imported A2 Base Material:

ID: D4S-12: Atterberg Limits (SP), Sieve Analysis, and TEX-113E

Results:

Material meets criteria for Lime-Stabilized and A2 Base for: type, gradation and plasticity.

Disclaimer

1. This report (and any attachments) shall not be reproduced except in full without prior written approval of ECS.
2. The information in this report relates only to the activities performed on the report date.
3. Where appropriate, this report includes statements as to compliance with applicable project drawings, and specifications for the activities, performed on this report date.
4. Incomplete or non-conforming work will be reported for future resolution.
5. The results of samples and/or specimens obtained or prepared for subsequent laboratory testing will be presented in separate reports/documents.



ECS Southwest, LLP
 431 Isom Road, Suite 114
 San Antonio, TX 78216
 T 210.528.1430
 F 214.483.9684

LETTER OF TRANSMITTAL

August 26, 2025
 Lennar
 100 NE Loop 410 Suite 1155
 San Antonio, TX 78216
 ATTN: Mr. Nathan Nowell

RE: **Stone Garden - Unit 2A**
 ECS Job # **20:1910**
 Permits:
 Location: **14395 Old Corpus Christi Road**
Elmendorf, TX 78112

☒

Field Reports

☒

For your use

☒

As requested

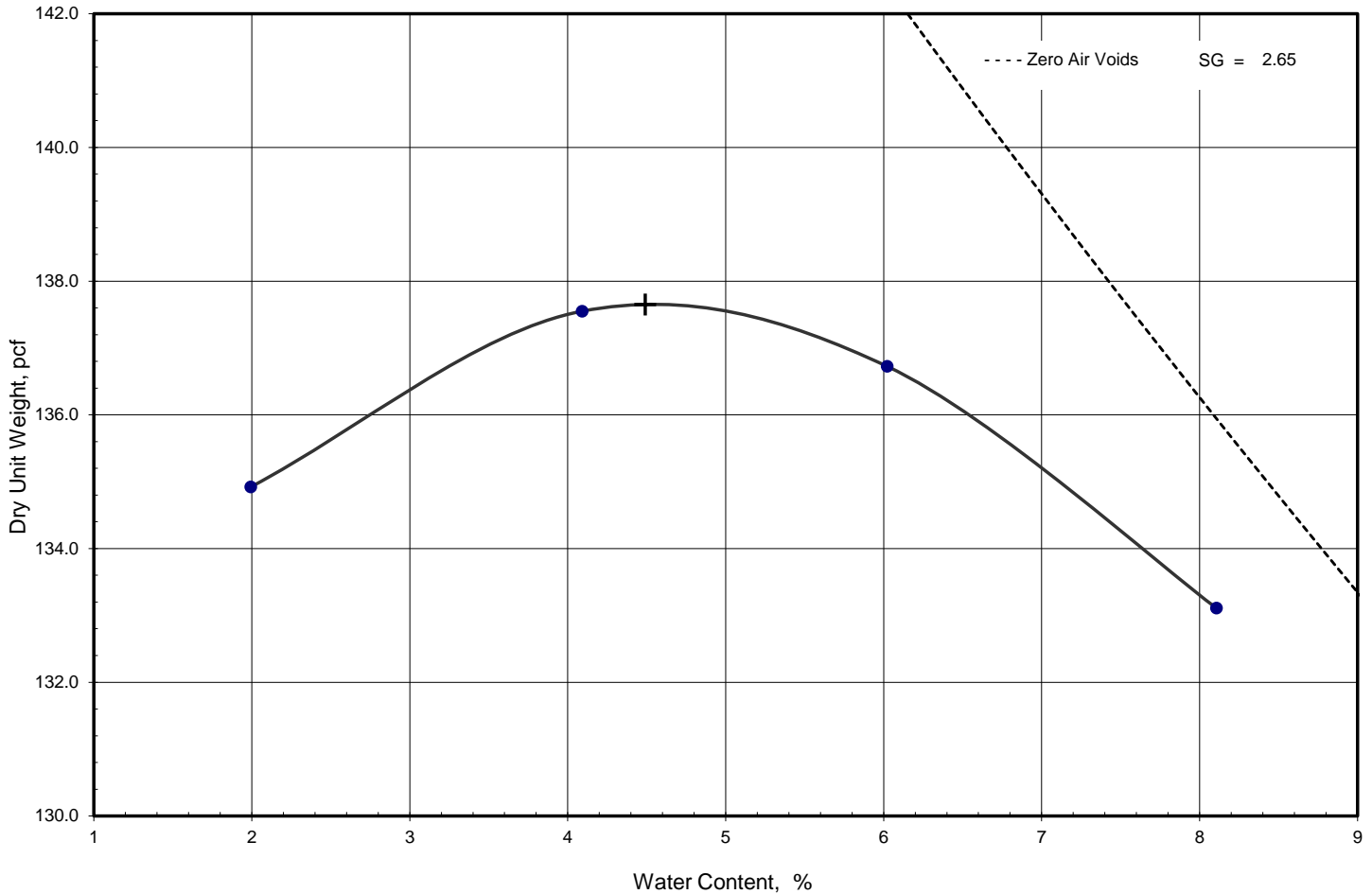
Adam James Heiman, P.E.
 Assistant Office Manager

Stephanie Marie Chavez
 CMT Project Professional I

Disclaimer

1. This report (and any attachments) shall not be reproduced except in full without prior written approval of ECS.
2. The information in this report relates only to the activities performed on the report date.
3. Where appropriate, this report includes statements as to compliance with applicable project drawings, and specifications for the activities, performed on this report date.
4. Incomplete or non-conforming work will be reported for future resolution.
5. The results of samples and/or specimens obtained or prepared for subsequent laboratory testing will be presented in separate reports/documents.

Laboratory Compaction Characteristics of Soil TEX-113-E



Optimum Moisture Content
Maximum Dry Unit Weight

4.5 %
137.7 pcf

Preparation
Type of rammer
Test Specification / Method

TEX-101-E
Mechanical - sector face
TEX-113-E

Soil Description

Nat.
Moist. %

Liquid Limit

Plasticity
Index

%< #200

USCS

AASHTO

(GP-GC) POORLY GRADED GRAVEL WITH SILTY CLAY & SAND,
Light Tan

3.3

17

4

11.8

GP-GC

A-1-a

Project: Stone Garden - Unit 2A
Client: Lennar
Sample / Source: Import A2 Base Material

Project No.: 20:1910
Depth (ft.): 0 - 1
Sample No.: D4S-12
Date Reported: 8/26/2025



Office / Lab

Address

Office Number / Fax

ECS Southwest LLP - San Antonio

431 Isom Road
Suite 114
San Antonio, TX 78216

(210)528-1430
(214)483-9684

Tested by

Checked by

Approved by

Date Received

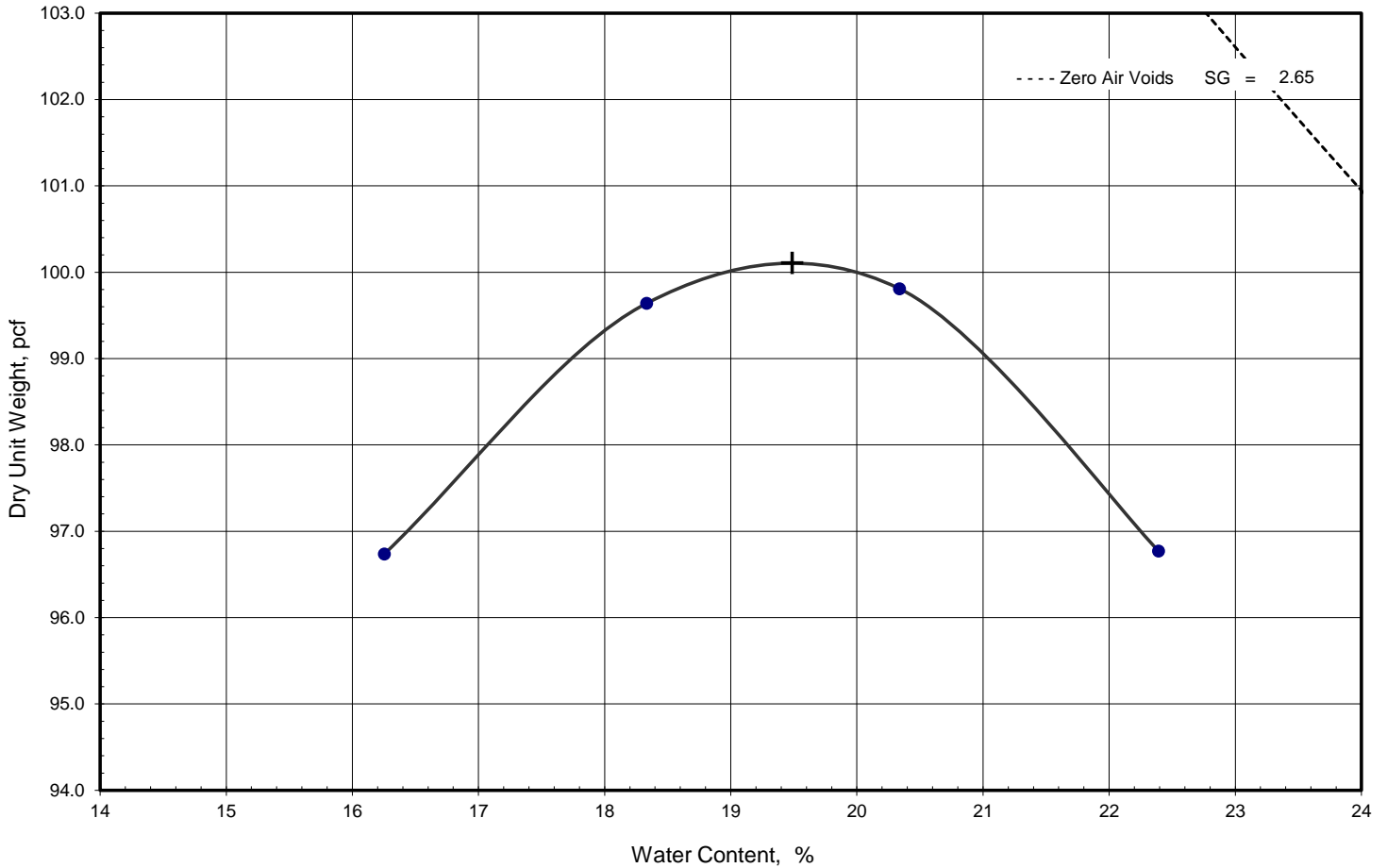
Remarks

fzuniga

fzuniga

fzuniga

Laboratory Compaction Characteristics of Soil Using Standard Effort



Optimum Moisture Content

19.5 %

Maximum Dry Unit Weight

100.1 pcf

Preparation

ASTM moist preparation

Type of rammer

Mechanical - circular face

Test Specification / Method

ASTM D698-12e2-method A

Soil Description

Nat.
Moist. %

Liquid Limit

Plasticity
Index

% < #200

USCS

AASHTO

(SM) SILTY SAND, Reddish Brown

14.3

NP

7.8

A-2-4

Project: Stone Garden - Unit 2A

Client: Lennar

Sample / Source: On-site Lime stabilized material at Gabro Cove STA 3+00

Project No.: 20:1910

Depth (ft.): 0 - 1

Sample No.: D4S-10

Date Reported: 8/26/2025



Office / Lab

Address

Office Number / Fax

ECS Southwest LLP - San Antonio

431 Isom Road
Suite 114
San Antonio, TX 78216

(210)528-1430
(214)483-9684

Tested by

Checked by

Approved by

Date Received

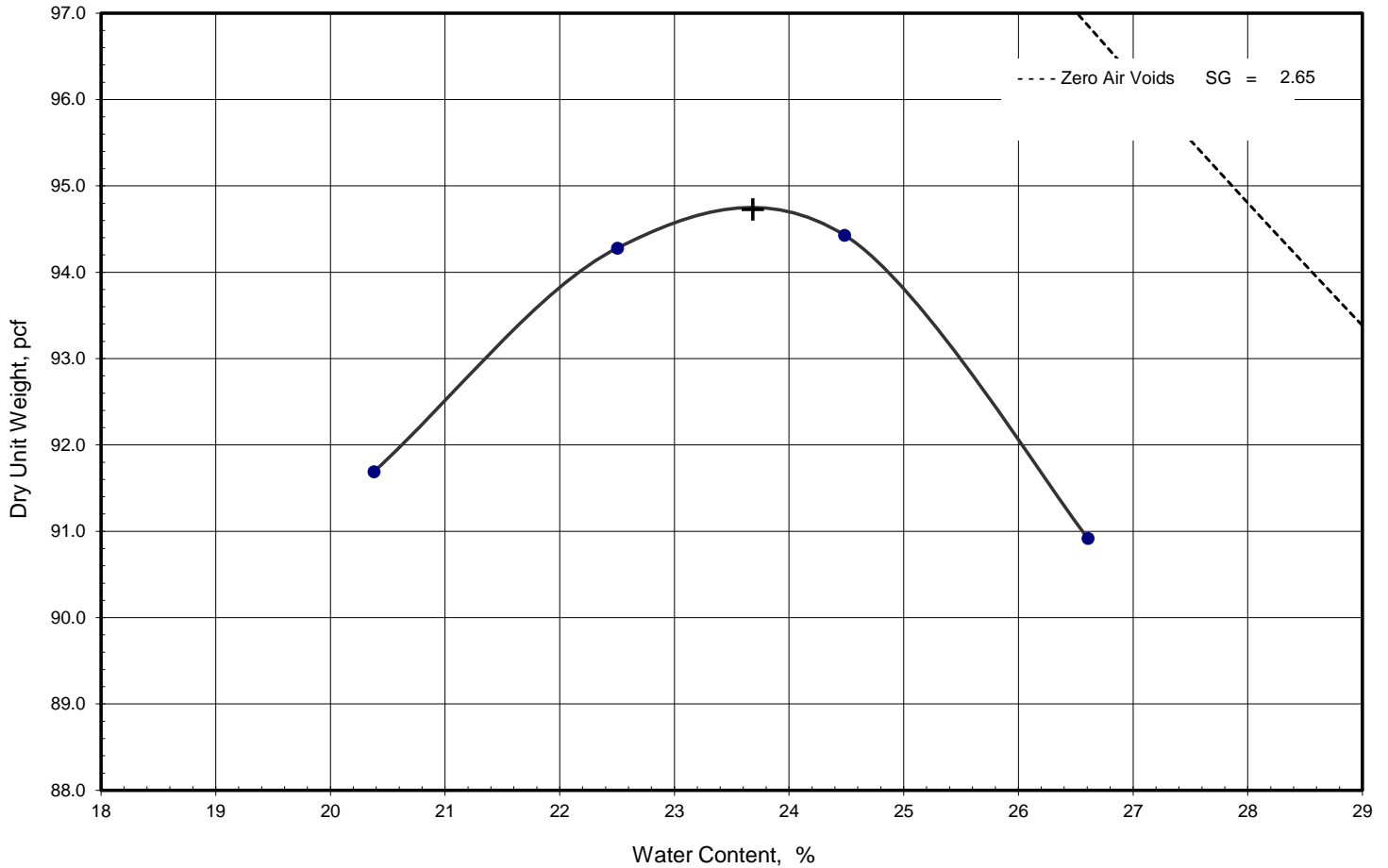
Remarks

fzuniga

fzuniga

fzuniga

Laboratory Compaction Characteristics of Soil Using Standard Effort



Optimum Moisture Content

23.7 %

Maximum Dry Unit Weight

94.7 pcf

Preparation

ASTM moist preparation

Type of rammer

Mechanical - circular face

Test Specification / Method

ASTM D698-12e2-method A

Soil Description

Nat.
Moist. %

Liquid Limit

Plasticity
Index

% < #200

USCS

AASHTO

(SM) SILTY SAND, Reddish Brown

18.6

NP

13.0

A-2-4

Project: Stone Garden - Unit 2A

Client: Lennar

Sample / Source: On-site Lime stabilized material at Granite Garden STA 7+00

Project No.: 20:1910

Depth (ft.): 0 - 1

Sample No.: D4S-11

Date Reported: 8/26/2025



Office / Lab

Address

Office Number / Fax

ECS Southwest LLP - San Antonio

431 Isom Road
Suite 114
San Antonio, TX 78216

(210)528-1430
(214)483-9684

Tested by

Checked by

Approved by

Date Received

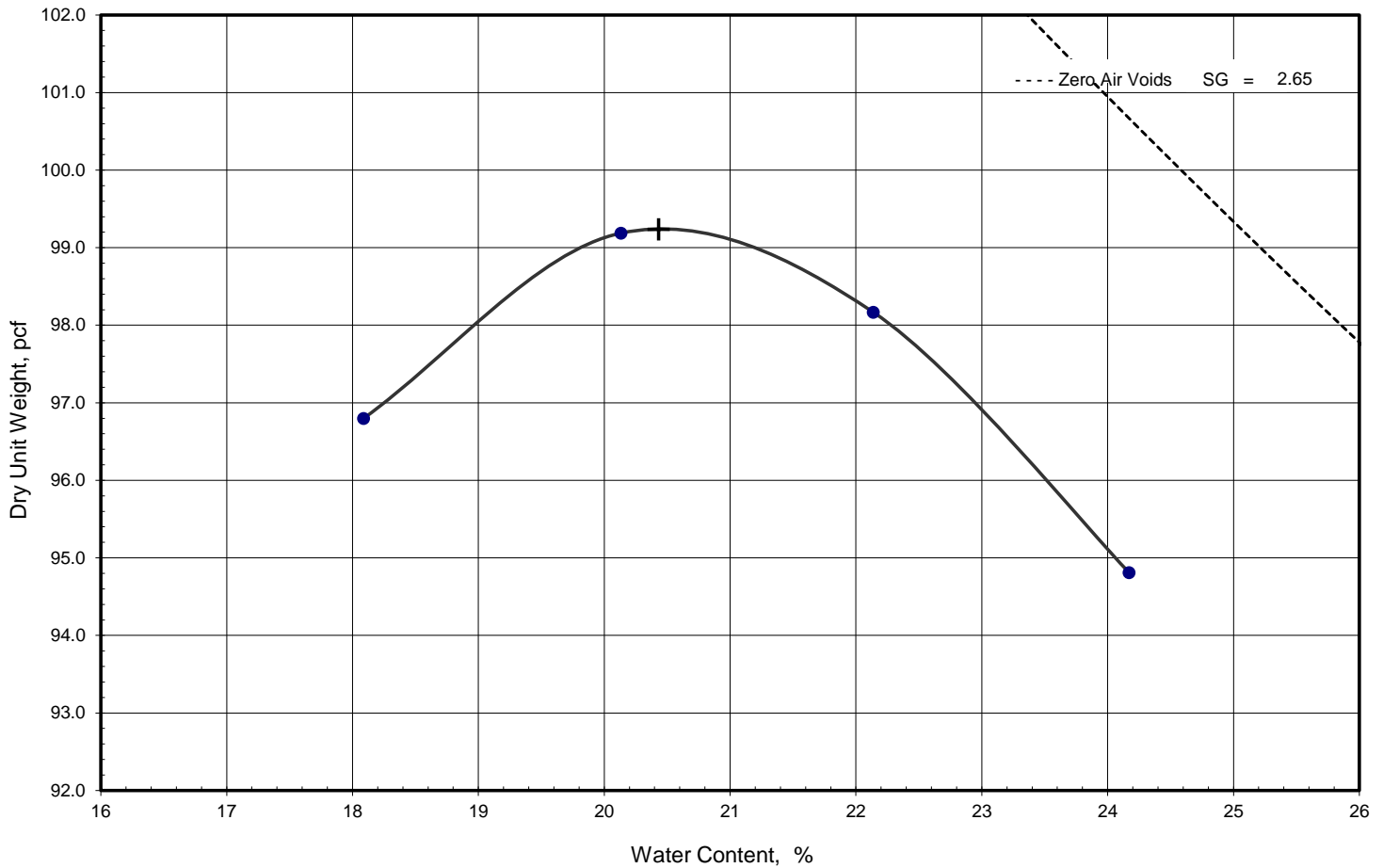
Remarks

fzuniga

fzuniga

fzuniga

Laboratory Compaction Characteristics of Soil Using Standard Effort



Optimum Moisture Content

20.4 %

Maximum Dry Unit Weight

99.2 pcf

Preparation

ASTM moist preparation

Type of rammer

Mechanical - circular face

Test Specification / Method

ASTM D698-12e2-method A

Soil Description

Nat.
Moist. %

Liquid Limit

Plasticity
Index

% < #200

USCS

AASHTO

(SM) SILTY SAND, Reddish Brown

12.8

NP

13.5

A-2-4

Project: Stone Garden - Unit 2A

Client: Lennar

Sample / Source: On-site Lime stabilized material at Granite Garden STA 11+00

Project No.: 20:1910

Depth (ft.): 0 - 1

Sample No.: D4S-13

Date Reported: 8/26/2025



Office / Lab

Address

Office Number / Fax

ECS Southwest LLP - San Antonio

431 Isom Road
Suite 114
San Antonio, TX 78216

(210)528-1430
(214)483-9684

Tested by

Checked by

Approved by

Date Received

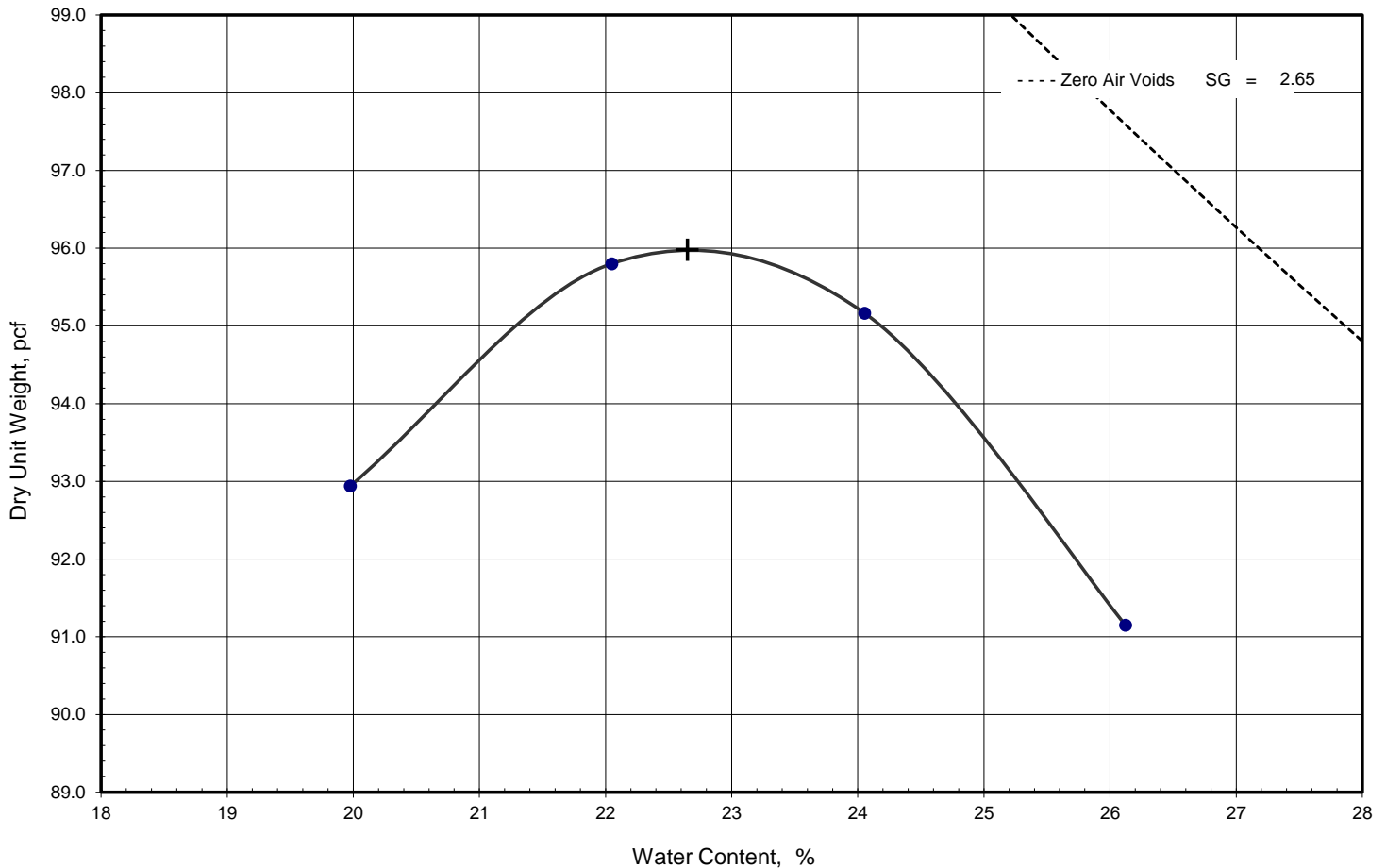
Remarks

fzuniga

fzuniga

fzuniga

Laboratory Compaction Characteristics of Soil Using Standard Effort



Optimum Moisture Content

22.6 %

Maximum Dry Unit Weight

96.0 pcf

Preparation

ASTM moist preparation

Type of rammer

Mechanical - circular face

Test Specification / Method

ASTM D698-12e2-method A

Soil Description

Nat.
Moist. %

Liquid Limit

Plasticity
Index

% < #200

USCS

AASHTO

(SM) SILTY SAND, Reddish Brown

15.6

NP

12.5

A-2-4

Project: Stone Garden - Unit 2A

Client: Lennar

Sample / Source: On-site Lime stabilized material at Chalk Cave STA 3+50

Project No.: 20:1910

Depth (ft.): 0 - 1

Sample No.: D4S-14

Date Reported: 8/26/2025



Office / Lab

Address

Office Number / Fax

ECS Southwest LLP - San Antonio

431 Isom Road
Suite 114
San Antonio, TX 78216

(210)528-1430
(214)483-9684

Tested by

Checked by

Approved by

Date Received

Remarks

fzuniga

fzuniga

fzuniga



ECS Southwest, LLP
 431 Isom Road, Suite 114
 San Antonio, TX 78216
T 210.528.1430
F 214.483.9684

LETTER OF TRANSMITTAL

August 26, 2025

Lennar

100 NE Loop 410 Suite 1155

San Antonio, TX 78216

ATTN: Mr. Nathan Nowell

RE: **Stone Garden - Unit 2A**

ECS Job # **20:1910**

Permits:

Location: **14395 Old Corpus Christi Road
 Elmendorf, TX 78112**

☒

Field Reports

☒

For your use

☒

As requested

CC: City of San Antonio - Development Services
 Department - Juan Ramirez

Lennar - Rogelio "Roy" Olivarez, Jr.
 V.K. Knowlton Construction - Sammy Ramos

ENCL: Field Report # 85 8/26/2025 Lime gradation and Lime procto

Baruyr Edik Baghdasarian, P.E.
 Geotechnical Department Manager

Stephanie Marie Chavez
 CMT Project Professional I

Disclaimer

1. This report (and any attachments) shall not be reproduced except in full without prior written approval of ECS.
2. The information in this report relates only to the activities performed on the report date.
3. Where appropriate, this report includes statements as to compliance with applicable project drawings, and specifications for the activities, performed on this report date.
4. Incomplete or non-conforming work will be reported for future resolution.
5. The results of samples and/or specimens obtained or prepared for subsequent laboratory testing will be presented in separate reports/documents.

**ECS Southwest, LLP**

431 Isom Road, Suite 114

San Antonio, TX 78216

T 210.528.1430

F 214.483.9684

FIELD REPORT

Project **Stone Garden - Unit 2A**
 Location **Elmendorf, TX**
 Client **Lennar**
 Contractor **Lennar**

Project No. **20:1910**
 Report No. **85**
 Day & Date **Tuesday 8/26/2025**
 Weather **85 °/ Sunny**
 On-Site Time **5.25**
 Lab Time **0.75**
 Travel Time* **1.00**
 Total **7.00**
 Re Obs Time **0.00**

Remarks **Lime gradation and Lime procto**

Trip Charges*	35.00	Tolls/Parking*		Mileage*		Time of Arrival	Departure
Chargeable Items						10:00A	3:15P

* Travel time and mileage will be billed in accordance with the contract.

Summary of Services Performed (field test data, locations, elevations & depths are estimates) & Individuals Contacted.

The undersigned arrived on-site, as requested to perform gradations for the lime treated subgrade.

Location:
 Hornblende Trails
 Giallo Place
 Fiore Garden

Please see the attached sketch.

The applicable plans and geotechnical report were reviewed prior to testing. TxDOT Item 260 was performed for lime treated subgrade gradations. Sieve gradations appeared to meet the specifications.

SOIL SAMPLE PICK UP:

While on site, as requested, the undersigned obtained 3 samples of lime treated subgrade material for testing in our laboratory. The samples were obtained from the processed lime treated subgrade.

Locations:
 Hornblende Trails near Azzurro Stone.
 Giallo Place.
 Fiore Garden near Azzurro Stone.

The three samples, approximately 2 buckets each, of material were obtained and returned to the laboratory for testing.

Prior to departure, Sammy Ramos with V.K. Knowlton was informed of the results of the day's observations.

By Nicolas Padeni

1800

Stabilization Field Gradation Test 1

Sieve no.	Sieve Opening (mm)	Mass of Soil retained (lb.)	Percent of mass retained (%)	Cumulative percent retained (%)	Percent finer passing (%)
1-3/4"	45.000				100.00
3/4"	19.000	0.02	0.20	0.20	99.80
#4	4.750	2.89	28.67	28.87	71.33
pan		7.17	71.13	100.00	
Total Mass (lb)		10.08			

Gradation Requirements (Minimum % Passing)

Sieve Size	Subgrade
1-3/4"	100.00
3/4"	85.00
#4	60.00

Stabilization Field Gradation Test 2

Sieve no.	Sieve Opening (mm)	Mass of Soil retained (lb.)	Percent of mass retained (%)	Cumulative percent retained (%)	Percent finer passing (%)
1-3/4"	45.000				100.00
3/4"	19.000	0.17	1.13	1.13	98.87
#4	4.750	4.15	28.49	29.63	71.51
pan		10.25	70.37	100.00	
Total Mass (lb)		14.57			

Gradation Requirements (Minimum % Passing)

Sieve Size	Subgrade
1-3/4"	100.00
3/4"	85.00
#4	60.00

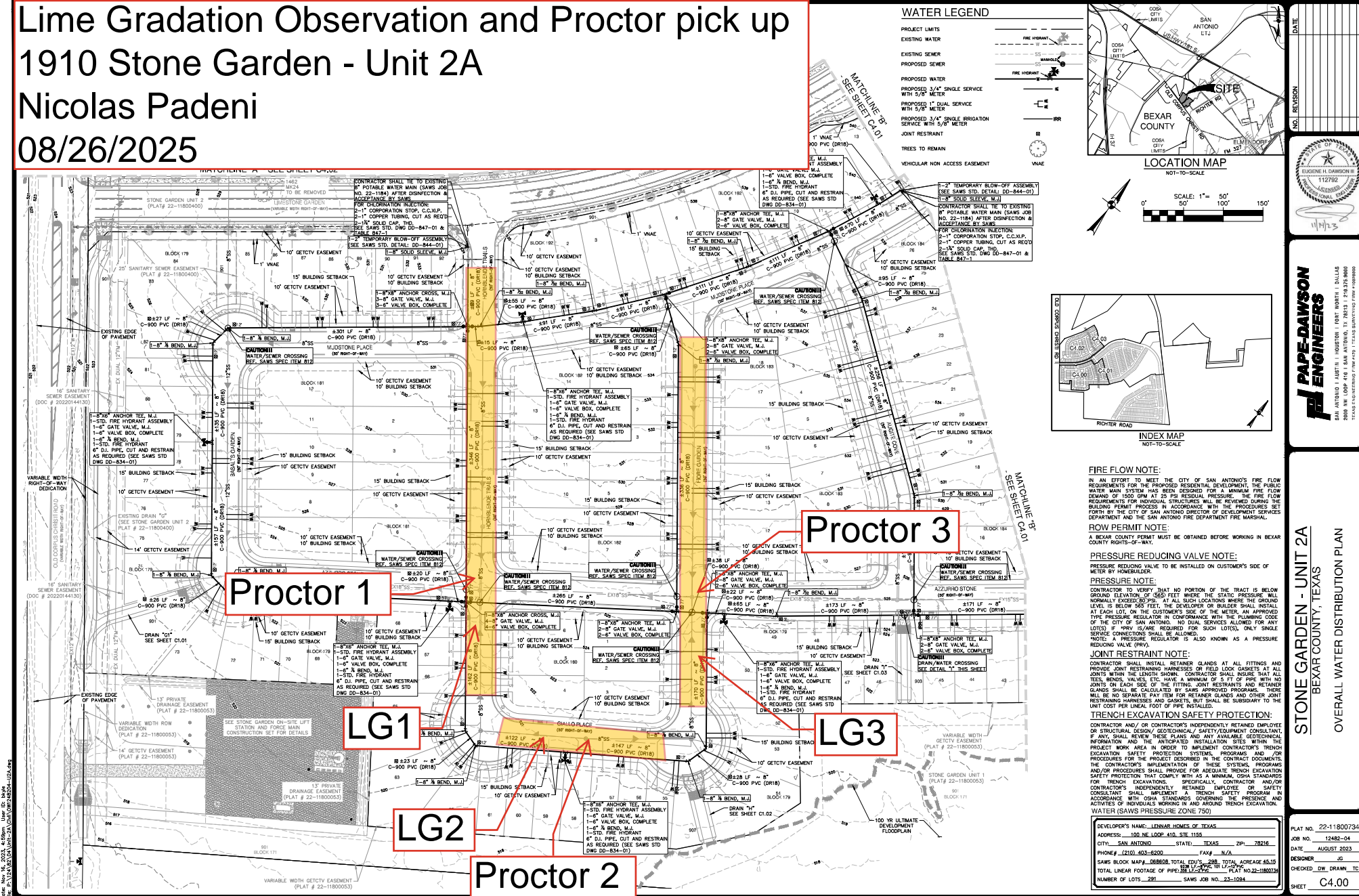
Stabilization Field Gradation Test 3

Sieve no.	Sieve Opening (mm)	Mass of Soil retained (lb.)	Percent of mass retained (%)	Cumulative percent retained (%)	Percent finer passing (%)
1-3/4"	45.000				100.00
3/4"	19.000	0.25	2.33	2.33	97.67
#4	4.750	4.07	38.71	41.04	61.29
pan		6.20	58.96	100.00	
Total Mass (lb)		10.52			

Gradation Requirements (Minimum % Passing)

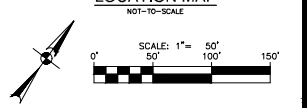
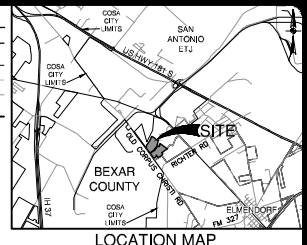
Sieve Size	Subgrade
1-3/4"	100.00
3/4"	85.00
#4	60.00

Lime Gradation Observation and Proctor pick up
1910 Stone Garden - Unit 2A
Nicolas Padeni
08/26/2025



WATER LEGEND

- PROJECT LIMITS
- EXISTING WATER
- EXISTING SEWER
- PROPOSED SEWER
- PROPOSED WATER
- PROPOSED 3/4" SINGLE SERVICE WITH 5/8" METER
- PROPOSED 1" DUAL SERVICE WITH 5/8" METER
- PROPOSED 3/4" SINGLE IRRIGATION SERVICE WITH 5/8" METER
- JOINT RESTRAINT
- TREES TO REMAIN
- VEHICULAR NON ACCESS EASEMENT



FIRE FLOW NOTE:
IN AN EFFORT TO MEET THE CITY OF SAN ANTONIO'S FIRE FLOW REQUIREMENTS FOR THE PROPOSED RESIDENTIAL DEVELOPMENT, THE PUBLIC WATER MAIN SYSTEM HAS BEEN DESIGNED FOR A MINIMUM FIRE FLOW DEMAND OF 1500 GPM AT 25 PSI RESIDUAL PRESSURE. THE FIRE FLOW REQUIREMENTS FOR INDIVIDUAL STRUCTURES WILL BE REVIEWED DURING THE BUILDING PERMIT PROCESS IN ACCORDANCE WITH THE PROCEDURES SET FORTH BY THE CITY OF SAN ANTONIO DEPARTMENT OF DEVELOPMENT SERVICES DEPARTMENT AND THE SAN ANTONIO FIRE DEPARTMENT FIRE MARSHAL.

ROW PERMIT NOTE:
A BEXAR COUNTY PERMIT MUST BE OBTAINED BEFORE WORKING IN BEXAR COUNTY RIGHTS-OF-WAY.

PRESSURE REDUCING VALVE NOTE:
PRESSURE REDUCING VALVE TO BE INSTALLED ON CUSTOMER'S SIDE OF METER BY HOMEOWNER.

PRESSURE NOTE:
CONTRACTOR TO VERIFY THAT NO PORTION OF THE TRACT IS BELOW GROUND ELEVATION OF 865 FEET WHERE THE STATIC PRESSURE WILL EXCEED 80 PSI. AT ALL SUCH LOCATIONS WHERE THE GROUND LEVEL IS BELOW 865 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 AND DUAL SERVED ALIGNED FOR ANY LOT(S) IF "PRV" IS/ARE REQUIRED FOR SUCH LOT(S), ONLY SINGLE SERVED CONNECTIONS SHALL BE ALLOWED. NOTE: A PRESSURE REGULATOR ALSO KNOWN AS A PRESSURE REDUCING VALVE (PRV).

JOINT RESTRAINT NOTE:
CONTRACTOR SHALL INSTALL RETAINER GLANDS AT ALL FITTINGS AND PROVIDE JOINT RESTRAINTS HARNESSES OR FIELD LOCK GASKETS AT ALL JOINTS WITHIN THE LENGTH SHOWN. CONTRACTOR SHALL INSURE THAT ALL TEES, BENDS, VALVES, ETC. HAVE A MINIMUM OF 5 FT OF PIPE WITH NO JOINTS ON EACH SIDE OF THE FITTING. JOINT RESTRAINTS AND RETAINER GLANDS SHALL BE CALCULATED BY SAWS APPROVED PROGRAMS. THERE WILL BE NO SEPARATE PAY ITEM FOR RETAINER GLANDS AND OTHER JOINT RESTRAINTS HARNESSES AND GASKETS, BUT SHALL BE SUBSIDIARY TO THE UNIT COST PER LINEAL FOOT OF PIPE INSTALLED.

TRENCH EXCAVATION SAFETY PROTECTION:
CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGNER/GEOTECHNICAL ENGINEER SHALL PROVIDE SAFETY 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, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION WATER (SAWS PRESSURE ZONE 750).

DEVELOPER'S NAME: LENDIAN HOMES OF TEXAS
ADDRESS: 100 NE LOOP 410, STE 115B
CITY: SAN ANTONIO STATE: TEXAS ZIP: 78216
PHONE: (210) 403-6200 FAX: N/A
SAWS BLOCK MAP: 080608 TOTAL LOT: 291 TOTAL ACRES: 65.15
TOTAL LINEAL FOOTAGE OF PIPE: 15,120' TOTAL LINEAL FOOTAGE OF TRENCH: 12,180' (22-1180003)
NUMBER OF LOTS: 291 SAWS JOB NO: 23-1094

STONE GARDEN - UNIT 2A
BEXAR COUNTY, TEXAS
OVERALL WATER DISTRIBUTION PLAN

PLAT NO. 22-11800734
JOB NO. 12485-04
DATE AUGUST 2023
CHECKED DW, DRAIN, TC
SHEET C4.00

Attachments



Lime gradation and proctor pick up 2

Figure 1



Lime gradation and proctor pick up 1

Figure 2

Attachments



Lime gradation and proctor pick up 3

Figure 3



ECS Southwest, LLP
 431 Isom Road, Suite 114
 San Antonio, TX 78216
 T 210.528.1430
 F 214.483.9684

LETTER OF TRANSMITTAL

August 28, 2025
 Lennar
 100 NE Loop 410 Suite 1155
 San Antonio, TX 78216
 ATTN: Mr. Nathan Nowell

RE: **Stone Garden - Unit 2A**
 ECS Job # **20:1910**
 Permits:
 Location: **14395 Old Corpus Christi Road**
Elmendorf, TX 78112

☒ Field Reports ☒ For your use ☒ As requested

CC: City of San Antonio - Development Services
 Department - Juan Ramirez

Lennar - Rogelio "Roy" Olivarez, Jr.
 V.K. Knowlton Construction - Sammy Ramos

ENCL: Field Report # 86 8/27/2025 Soil Density Testing/ Pick up

Adam James Heiman, P.E.
 Assistant Office Manager

Stephanie Marie Chavez
 CMT Project Professional I

Disclaimer

1. This report (and any attachments) shall not be reproduced except in full without prior written approval of ECS.
2. The information in this report relates only to the activities performed on the report date.
3. Where appropriate, this report includes statements as to compliance with applicable project drawings, and specifications for the activities, performed on this report date.
4. Incomplete or non-conforming work will be reported for future resolution.
5. The results of samples and/or specimens obtained or prepared for subsequent laboratory testing will be presented in separate reports/documents.

**ECS Southwest, LLP**

431 Isom Road, Suite 114

San Antonio, TX 78216

T 210.528.1430

F 214.483.9684

FIELD REPORTProject **Stone Garden - Unit 2A**Location **Elmendorf, TX**Client **Lennar**Contractor **Lennar**

Project No. **20:1910**
 Report No. **86**
 Day & Date **Wednesday 8/27/2025**
 Weather **80 °/ Partly Cloudy**
 On-Site Time **4.00**
 Lab Time **0.75**
 Travel Time* **0.50**
 Total **5.25**
 Re Obs Time **0.00**

Remarks **Soil Density Testing/ Pick up**

Trip Charges*	35.00	Tolls/Parking*		Mileage*		Time of Arrival	Departure
Chargeable Items	5000					7:30A	11:30A

* Travel time and mileage will be billed in accordance with the contract.

Summary of Services Performed (field test data, locations, elevations & depths are estimates) & Individuals Contacted.

As requested, the undersigned arrived on-site, to perform soil compaction testing of lime stabilized subgrade.

Location:

Granite Garden, Subgrade

Gabbro Cove, Subgrade

Chalk Cave, Subgrade

Please see the attached sketch and photo documentation.

Project documents reviewed include: Civil plan pages C4.02 and C4.03 dated 11/14/2023 and the Geotechnical Report dated 04/25/2022 were reviewed prior to testing.

Utilizing the Nuclear Method ASTM D6938, to check the compaction of lime stabilized subgrade at the areas and elevations tested.

The test results MET the project requirements of 95% of the corrected maximum dry density and a moisture content of -3% to 3% from optimum, as determined in our laboratory using the Standard Proctor Method ASTM D698.

Noted exceptions: NONE

LIME GRADATIONS:

The undersigned then performed gradations for the lime treated subgrade for Chalk Cave and Mudstone Place. Please see the attached sketch.

The applicable plans and geotechnical report were reviewed prior to testing. TxDOT Item 260 was performed for lime treated subgrade gradations. Sieve gradations appeared to meet the specifications.

SOIL SAMPLE PICK UP:

While on site, as requested, the undersigned obtained 2 samples of lime treated subgrade material for testing in our laboratory. The samples were obtained from the processed lime treated subgrade.

Locations:

Chalk Cave near STA 10+50.

Mudstone Place near STA 9+50.

The 2 samples, approximately 2 buckets each, of material were obtained and returned to the laboratory for testing.

Prior to departure, Sammy Ramos with V.K. Knowlton was informed of the results of the day's observations.

**Field Compaction Summary, D6938**

Project No: 20:1910

Project Name: Stone Garden - Unit 2A

Date: 8/27/2025

ECS Southwest, LLP

Client: Lennar

Contractor: Lennar

Technician: Nicolas Padeni

Test Method D6938			
Nuclear Gauge No. 76450			
Make	Troxler	Density Std	2553
Model	3430P	Moisture Std	695
Ser. No.	76450		

Sample No.				Description			Proctor Method					Uncorrected Max. Density		Uncorrected Optimum Moisture Content	
D4S-13				(SM) SILTY SAND, Reddish Brown			Standard Proctor Method (ASTM D-698)					99.2		20.4	
D4S-10				(SM) SILTY SAND, Reddish Brown			Standard Proctor Method (ASTM D-698)					100.1		19.5	
Test No.	Lot No.	Test Mode	Probe Depth (in.)	Station / Location	Lift / Elev	Sample No.	% Oversize	Corrected Max. Density	Corrected Optimum Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Moisture Content (%)	Percent Comp. (%)	P / F	Comments
1		DT	6	Granite Garden STA 2+00	Subgrade	D4S-13	0.00	99.2	20.4	116.2	96.3	20.6	97.1	P	
2		DT	6	Granite Garden STA 3+50	Subgrade	D4S-10	0.00	100.1	19.5	120.2	101.6	18.4	101.5	P	
3		DT	6	Granite Garden STA 5+00	Subgrade	D4S-13	0.00	99.2	20.4	121.4	102.6	18.4	103.4	P	
4		DT	6	Granite Garden STA 6+50	Subgrade	D4S-13	0.00	99.2	20.4	118.8	100.4	18.3	101.2	P	
5		DT	6	Granite Garden STA 8+00	Subgrade	D4S-13	0.00	99.2	20.4	119.5	99.3	20.4	100.1	P	
6		DT	6	Granite Garden STA 10+00	Subgrade	D4S-13	0.00	99.2	20.4	120.9	101.9	18.7	102.7	P	
7		DT	6	Granite Garden STA 11+50	Subgrade	D4S-13	0.00	99.2	20.4	117.8	99.0	19.0	99.8	P	
8		DT	6	Granite Garden STA 13+00	Subgrade	D4S-13	0.00	99.2	20.4	119.0	101.0	17.9	101.8	P	
9		DT	6	Gabbro Cove STA 2+00	Subgrade	D4S-10	0.00	100.1	19.5	120.3	99.5	20.9	99.4	P	
10		DT	6	Gabbro Cove STA 3+50	Subgrade	D4S-10	0.00	100.1	19.5	120.3	102.3	17.6	102.2	P	

**Field Compaction Summary, D6938**

Project No: 20:1910

Project Name: Stone Garden - Unit 2A

Date: 8/27/2025

ECS Southwest, LLP

Client: Lennar

Contractor: Lennar

Technician: Nicolas Padeni

Test Method D6938			
Nuclear Gauge No. 76450			
Make	Troxler	Density Std	2553
Model	3430P	Moisture Std	695
Ser. No.	76450		

Test No.	Lot No.	Test Mode	Probe Depth (in.)	Station / Location	Lift / Elev	Sample No.	% Oversize	Corrected Max. Density	Corrected Optimum Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Moisture Content (%)	Percent Comp. (%)	P / F	Comments
11		DT	6	Gabbro Cove STA 4+50	Subgrade	D4S-10	0.00	100.1	19.5	122.1	101.1	20.7	101.0	P	
12		DT	6	Chalk Cave STA 1+50	Subgrade	D4S-10	0.00	100.1	19.5	121.3	101.3	19.8	101.2	P	
13		DT	6	Chalk Cave STA 3+00	Subgrade	D4S-10	0.00	100.1	19.5	120.0	102.0	17.7	101.9	P	
14		DT	6	Chalk Cave STA 4+50	Subgrade	D4S-10	0.00	100.1	19.5	115.7	96.2	20.3	96.1	P	
15		DT	6	Chalk Cave STA 5+75	Subgrade	D4S-10	0.00	100.1	19.5	117.2	100.4	16.7	100.3	P	

Stabilization Field Gradation Test 1

Sieve no.	Sieve Opening (mm)	Mass of Soil retained (lb.)	Percent of mass retained (%)	Cumulative percent retained (%)	Percent finer passing (%)
1-3/4"	45.000				100.00
3/4"	19.000	0.13	1.20	1.20	98.80
#4	4.750	3.37	31.12	32.32	68.88
pan		7.33	67.68	100.00	
Total Mass (lb)		10.83			

Gradation Requirements (Minimum % Passing)

Sieve Size	Subgrade
1-3/4"	100.00
3/4"	85.00
#4	60.00

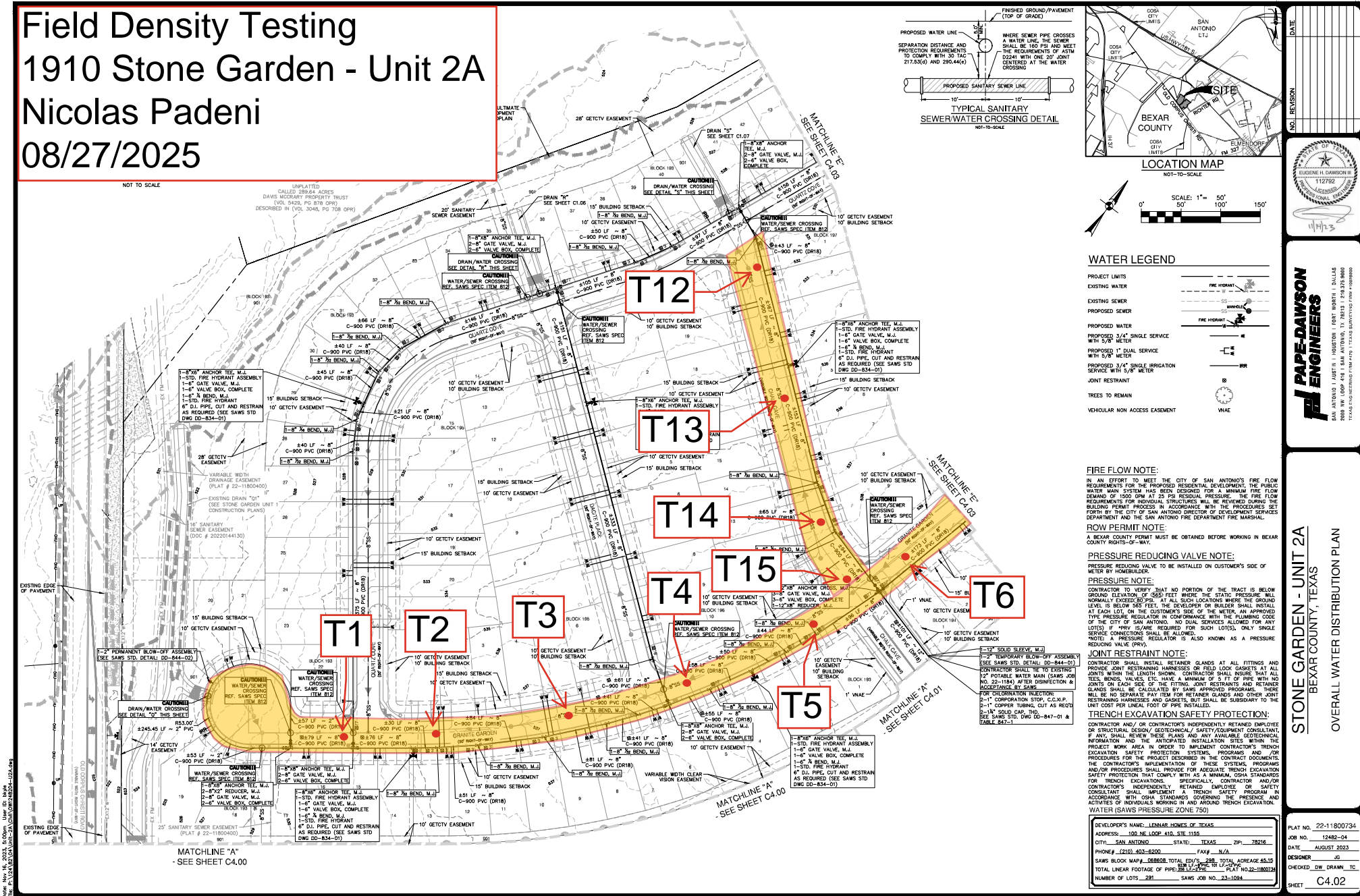
Stabilization Field Gradation Test 2

Sieve no.	Sieve Opening (mm)	Mass of Soil retained (lb.)	Percent of mass retained (%)	Cumulative percent retained (%)	Percent finer passing (%)
1-3/4"	45.000				100.00
3/4"	19.000	0.18	1.54	1.54	98.46
#4	4.750	3.18	28.01	29.55	71.99
pan		8.00	70.45	100.00	
Total Mass (lb)		11.36			

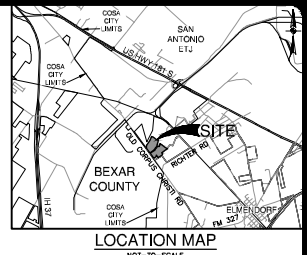
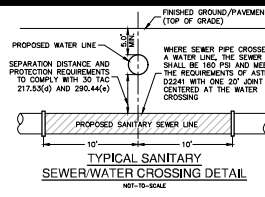
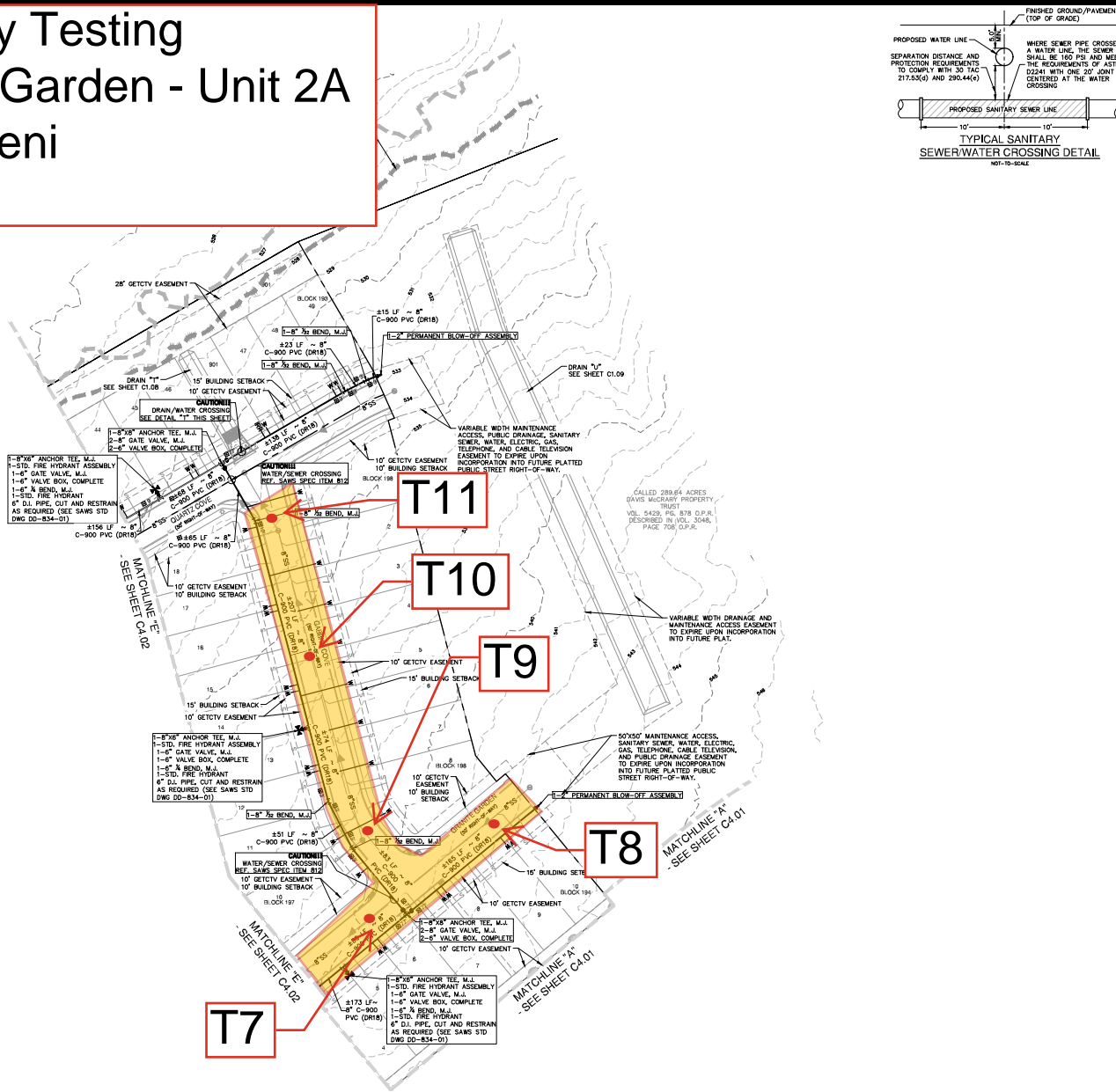
Gradation Requirements (Minimum % Passing)

Sieve Size	Subgrade
1-3/4"	100.00
3/4"	85.00
#4	60.00

Field Density Testing 1910 Stone Garden - Unit 2A Nicolas Padeni 08/27/2025



Field Density Testing
1910 Stone Garden - Unit 2A
Nicolas Padeni
08/27/2025



WATER LEGEND

PROJECT LIMITS	---
EXISTING WATER	---
EXISTING SEWER	---
PROPOSED WATER	---
PROPOSED SEWER	---
PROPOSED 1" SINGLE SERVICE 5/8" METER	---
PROPOSED 1" DUAL SERVICE 5/8" METER	---
PROPOSED 3/4" SINGLE IRRIGATION SERVICE WITH 5/8" METER	---
JOINT RESTRAINT	---
TREES TO REMAIN	---
VEHICULAR NO ACCESS EASEMENT	---

FIRE FLOW NOTE:
IN AN EFFORT TO MEET THE CITY OF SAN ANTONIO'S FIRE FLOW REQUIREMENTS FOR THE PROPOSED RESIDENTIAL DEVELOPMENT, THE PUBLIC WATER MAIN SYSTEM HAS BEEN DESIGNED FOR A MINIMUM FIRE FLOW DEMAND OF 1500 GPM AT 25 PSI RESIDUAL PRESSURE. THE FIRE FLOW REQUIREMENTS FOR INDIVIDUAL STRUCTURES WILL BE REVIEWED DURING THE BUILDING PERMIT PROCESS IN ACCORDANCE WITH THE PROCEDURES SET FORTH BY THE CITY OF SAN ANTONIO DIRECTOR OF DEVELOPMENT SERVICES DEPARTMENT AND THE SAN ANTONIO FIRE DEPARTMENT FIRE MARSHAL.

ROW PERMIT NOTE:
A BEXAR COUNTY PERMIT MUST BE OBTAINED BEFORE WORKING IN BEXAR COUNTY RIGHTS-OF-WAY.

PRESSURE REDUCING VALVE NOTE:
PRESSURE REDUCING VALVE TO BE INSTALLED ON CUSTOMER'S SIDE OF METER BY HOMEOWNER.

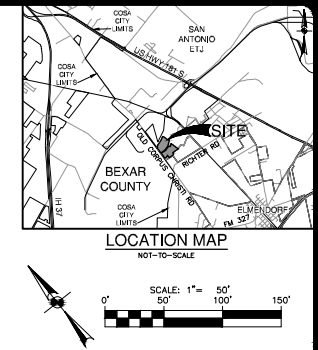
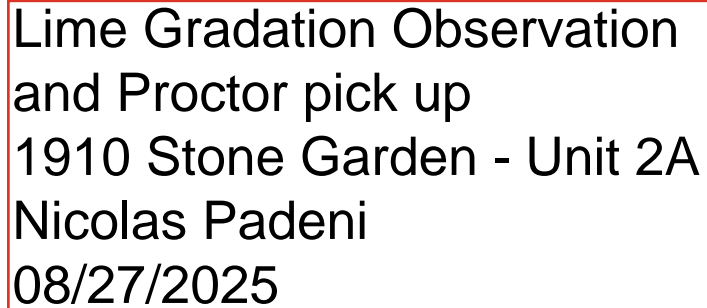
PRESSURE NOTE:
CONTRACTOR TO VERIFY THAT NO PORTION OF THE TRACT IS BELOW GROUND ELEVATION OF 585 FEET WHERE THE STATIC PRESSURE WILL NORMALLY EXCEED 20 PSI. AT ALL SUCH LOCATIONS WHERE THE GROUND LEVEL IS BELOW 585 FEET, THE DEVELOPER OR BUILDER SHALL INSTALL AT EACH LOT, ON THE CUSTOMER'S SIDE OF THE METER, AN APPROVED TYPE PRESSURE REGULATOR IN CONFORMANCE WITH THE PLUMBING CODE OF THE CITY OF SAN ANTONIO AND DUAL SERVICES ALLOWED FOR ANY LOTS) IF *PRV IS/ARE REQUIRED FOR SUCH LOTS), ONLY SINGLE SERVICE CONNECTIONS SHALL BE ALLOWED. NOTE: A PRESSURE REGULATOR IS ALSO KNOWN AS A PRESSURE REDUCING VALVE (PRV).

JOINT RESTRAINT NOTE:
CONTRACTOR SHALL INSTALL RETAINER GLANDS AT ALL FITTINGS AND PROVIDE JOINT RESTRAINING HARNESSES OR FIELD LOCK GASKETS AT ALL JOINTS WITHIN THE LENGTH SHOWN. CONTRACTOR SHALL INSURE THAT ALL TEES, BENDS, VALVES, ETC. HAVE A MINIMUM OF 5 FT. OF PIPE WITH NO JOINTS ON EACH SIDE OF THE FITTING. JOINT RESTRAINTS AND RETAINER GLANDS SHALL BE CALCULATED BY SAWS APPROVED PROGRAMS. THERE WILL BE NO SEPARATE PAY ITEM FOR RETAINER GLANDS AND OTHER JOINT RESTRAINING HARNESSES AND GASKETS, BUT SHALL BE SUBSIDIARY TO THE JOINT COST PER LINEAL FOOT OF PIPE INSTALLED.

TRENCH EXCAVATION SAFETY PROTECTION NOTE:
CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL SAFETY/GEOTECHNICAL CONSULTANT IF ANY, SHALL REVIEW THESE PLANS AND ANY AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLED SAFETY PROGRAMS. 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, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE, OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION WATER (SAWS PRESSURE ZONE 750).

DEVELOPER'S NAME: LENDAR HOMES OF TEXAS
ADDRESS: 100 NE LOOP 410, STE. 115B
CITY: SAN ANTONIO STATE: TEXAS ZIP: 78216
PHONE# (210) 403-8200 FAX# N/A
SAWS BLOCK MAP# LBB608 TOTAL LOT# 291 TOTAL ACRES 65.15
TOTAL LINEAR FOOTAGE OF PIPE 12,722' TOTAL PLAT NO. 22-1800734
NUMBER OF LOTS: 291 SAWS JOB NO. 23-1094

DATE: _____
NO. REVISION: _____
NO. _____
EUGENE H. DAWSON
112792
PE
PAPE-DAWSON
ENGINEERS
SAN ANTONIO 1 AUSTIN 1 HOUSTON 1 FORT WORTH 1 DALLAS
2800 NW LOOP 410 # 1 SAN ANTONIO, TX 78218 (512) 725-8888
TXSLS ENGINEERING / PM / FLS / TSS / SLS SUPERVISOR / 10000000
STONE GARDEN - UNIT 2A
BEXAR COUNTY, TEXAS
OVERALL WATER DISTRIBUTION PLAN
PLAT NO. 22-1800734
JOB NO. 12483-04
DATE AUGUST 2023
DESIGNER: JD
CHECKED: DW, DRAM, TC
SHEET C4.03



IN AN EFFORT TO MEET THE CITY OF SAN ANTONIO'S FIRE FLOW REQUIREMENTS FOR THE PROPOSED RESIDENTIAL DEVELOPMENT, THE PUBLIC WATER MAIN SYSTEM HAS BEEN DESIGNED FOR A MINIMUM FIRE FLOW DELIVERY OF 1500 GPM AT 150 PSI RESIDUAL PRESSURE. FIRE FLOW REQUIREMENTS FOR INDIVIDUAL STRUCTURES WILL BE REVIEWED DURING THE BUILDING PERMIT PROCESS IN ACCORDANCE WITH THE PROCEDURES SET FORTH BY THE CITY OF SAN ANTONIO DIRECTOR OF DEVELOPMENT SERVICES DEPARTMENT AND THE SAN ANTONIO FIRE DEPARTMENT FIRE MARSHAL.

ROW PERMIT NOTE:
A BEXAR COUNTY PERMIT MUST BE OBTAINED BEFORE WORKING IN BEXAR
COUNTY RIGHTS-OF-WAY.

PRESSURE REDUCING VALVE NOTE:
PRESSURE REDUCING VALVE TO BE INSTALLED ON CUSTOMER'S SIDE OF
METER BY HOMEBUILDER.

PRESSURE NOTE:
CONTRACTOR TO VERIFY THAT NO PORTION OF THE TRACT IS BELOW
GROUND ELEVATION OF (565) FEET WHERE THE STATIC PRESSURE WILL

GROUND ELEVATION OF 565 FEET WHERE THE STATIC PRESSURE WILL NORMALLY EXCEED 80 PSI. AT ALL SUCH LOCATIONS WHERE THE GROUND LEVEL IS BELOW 565 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.

TYPE PRESSURE REGULATOR IN CONFORMANCE WITH THE PLUMBING CODE OF THE CITY OF SAN ANTONIO. NO DUAL SERVICES ALLOWED FOR AN LOT(S) IF *PRV IS/ARE REQUIRED FOR SUCH LOT(S). ONLY SINGLE SERVICE CONNECTIONS SHALL BE ALLOWED.
*NOTE: A PRESSURE REGULATOR IS ALSO KNOWN AS A PRESSURE

JOINT RESTRAINT NOTE:

CONTRACTOR SHALL INSTALL RETAINER GLANDS AT ALL FITTINGS AND PROVIDE JOINT RESTRAINING HARNESSSES OR FIELD LOCK GASKETS AT JOINTS WITHIN THE LENGTH SHOWN. CONTRACTOR SHALL INSURE THAT TEES, BENDS, VALVES, ETC. HAVE A MINIMUM OF 5 FT OF PIPE WITH JOINTS ON EACH SIDE OF THE FITTING. JOINT RESTRAINING AND RETAIN

JOINTS ON EACH SIDE OF THE FITTING, JOINT RESTRAINTS AND RETAINER GLANDS SHALL BE CALCULATED BY SAWS APPROVED PROGRAMS, THERE WILL BE NO SEPARATE PAY ITEM FOR RETAINER GLANDS AND OTHER JOINT RESTRAINING HARNESSES AND GASKETS, BUT SHALL BE SUBSIDIARY TO LIMIT COST PER LINEAL FOOT OF PIPE INSTALLED.

UNIT COST PER LINEAL FOOT OF PIPE INSTALLED.

TRENCH EXCAVATION SAFETY PROTECTION:

CONTRACTOR AND/ OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLO

CONTRACTOR AND/OR CONTRACTOR'S INDEP. EXPERTS RETAINED FOR CO-
OR STRUCTURAL DESIGN/ GEOTECHNICAL/ SAFETY/EQUIPMENT CONSULTA-
IF ANY, SHALL REVIEW THESE PLANS AND ANY AVAILABLE GEOTECHNICAL
INFORMATION AND THE ANTICIPATED INSTALLATION SITES WITHIN
PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TREE

EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND 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

AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLY WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND SUBCONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM.

CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM
ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE
ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION
WATER (SAWS PRESSURE ZONE 750)

DEVELOPER'S NAME: LENNAR HOMES OF TEXAS
ADDRESS: 100 NE LOOP 410, STE 1155

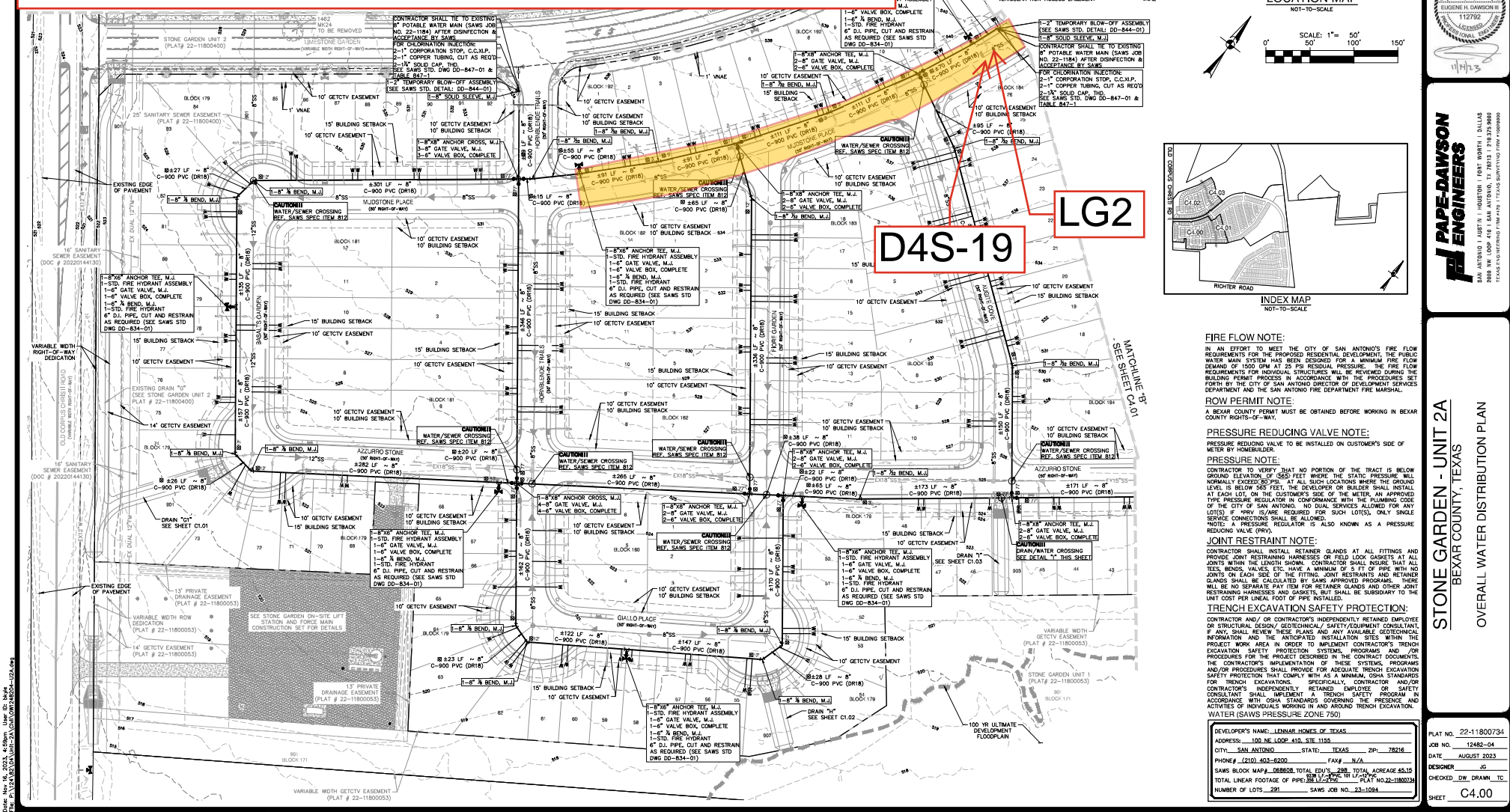
CITY: SAN ANTONIO STATE: TEXAS ZIP: 78216
PHONE# (210) 403-6200 FAX# N/A
CAME CHECK MADE 08808 TOTAL DUES 308 TOTAL ADVICE 15.1

SAWS BLOCK MAP# 068808 TOTAL EDU'S 248 TOTAL ACREAGE 45.1
 TOTAL LINEAR FOOTAGE OF PIPE: 9236 LF - 1" P.C. 101 LF - 12" P.C.
356 LF - 24" P.C. PLAT NO. 22-118007
 NUMBER OF LOTS 291 SAWS JOB NO. 23-1094

**PAPE-DAWSON
FOR ENGINEERS**

STONE GARDEN - UNIT 2A
BEXAR COUNTY, TEXAS
OVERALL WATER DISTRIBUTION PLAN

Lime Gradation Observation and Proctor pick up
1910 Stone Garden - Unit 2A
Nicolas Padeni
08/27/2025



Attachments



View of granite garden

Figure 1



View of granite garden

Figure 2



ECS Southwest, LLP
 431 Isom Road, Suite 114
 San Antonio, TX 78216
T 210.528.1430
F 214.483.9684

LETTER OF TRANSMITTAL

September 02, 2025
 Lennar
 100 NE Loop 410 Suite 1155
 San Antonio, TX 78216
 ATTN: Mr. Nathan Nowell

RE: **Stone Garden - Unit 2A**
 ECS Job # **20:1910**
 Permits:
 Location: **14395 Old Corpus Christi Road**
Elmendorf, TX 78112

☒ Field Reports ☒ For your use ☒ As requested

CC: City of San Antonio - Development Services
 Department - Juan Ramirez

Lennar - Rogelio "Roy" Olivarez, Jr.
 V.K. Knowlton Construction - Sammy Ramos

ENCL: Field Report # 87 8/29/2025 Soil Densities (Pavement Base)

Frank M. Munoz
 Office Manager

Stephanie Marie Chavez
 CMT Project Professional I

Disclaimer

1. This report (and any attachments) shall not be reproduced except in full without prior written approval of ECS.
2. The information in this report relates only to the activities performed on the report date.
3. Where appropriate, this report includes statements as to compliance with applicable project drawings, and specifications for the activities, performed on this report date.
4. Incomplete or non-conforming work will be reported for future resolution.
5. The results of samples and/or specimens obtained or prepared for subsequent laboratory testing will be presented in separate reports/documents.

**ECS Southwest, LLP**

431 Isom Road, Suite 114

San Antonio, TX 78216

T 210.528.1430

F 214.483.9684

FIELD REPORTProject **Stone Garden - Unit 2A**Location **Elmendorf, TX**Client **Lennar**Contractor **Lennar**

Project No. **20:1910**
 Report No. **87**
 Day & Date **Friday 8/29/2025**
 Weather **81 °/ Fair**
 On-Site Time **2.75**
 Lab Time **0.50**
 Travel Time* **0.50**
 Total **3.75**
 Re Obs Time **0.00**

Remarks **Soil Densities (Pavement Base)**

Trip Charges*	35.00	Tolls/Parking*		Mileage*		Time of Arrival	Departure
Chargeable Items	5000					8:00A	10:45A

* Travel time and mileage will be billed in accordance with the contract.

Summary of Services Performed (field test data, locations, elevations & depths are estimates) & Individuals Contacted.

The undersigned arrived on-site, as requested to observe the placement and compaction of base material.

Location:
 Granite Garden
 Quartz Cove

Please see the attached sketch.

Civil plan page C2.16 dated 09/11/23 and Geotechnical Report dated 04/25/22 were reviewed prior to testing.

Utilizing the Nuclear Method ASTM D6938, to check the compaction of base material at the areas and elevations tested, test results met the project requirements of 95% of the corrected maximum dry density and a moisture content of -2% to 3% from optimum, as determined in our laboratory using the State Proctor Method TEX-113-E.

Prior to departure, Sammy Ramos with V.K. Knowlton was informed of the results of the day's testing and observations.



Field Compaction Summary, D6938

Project No: 20:1910

Project Name: Stone Garden - Unit 2A

Date: 8/29/2025

ECS Southwest, LLP

Client: Lennar

Contractor: Lennar

Technician: Sergio A Trevino

Test Method D6938			
Nuclear Gauge No. 78650			
Make	Troxler	Density Std	2288
Model	3430P	Moisture Std	655
Ser. No.	78650		

Sample No.				Description			Proctor Method					Uncorrected Max. Density			Uncorrected Optimum Moisture Content
D4S-12				(GP-GC) POORLY GRADED GRAVEL WITH SILTY CLAY & SAND, Light Tan			TEX-113-E					137.7			4.5
Test No.	Lot No.	Test Mode	Probe Depth (in.)	Station / Location	Lift / Elev	Sample No.	% Oversize	Corrected Max. Density	Corrected Optimum Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Moisture Content (%)	Percent Comp. (%)	P / F	Comments
1		DT	6	Quartz Cove, STA 13+50	1	D4S-12	0.00	137.7	4.5	141.3	134.2	5.3	97.5	P	
2		DT	6	Quartz Cove, STA 12+00	1	D4S-12	0.00	137.7	4.5	151.1	141.6	6.6	102.8	P	
3		DT	6	Quartz Cove, STA 10+50	1	D4S-12	0.00	137.7	4.5	144.0	135.2	6.5	98.2	P	
4		DT	6	Quartz Cove, STA 9+00	1	D4S-12	0.00	137.7	4.5	137.4	130.9	4.9	95.1	P	
5		DT	6	Quartz Cove, STA 7+50	1	D4S-12	0.00	137.7	4.5	140.3	132.2	6.1	96.0	P	
6		DT	6	Quartz Cove, STA 6+00	1	D4S-12	0.00	137.7	4.5	149.3	140.8	6.0	102.3	P	
7		DT	6	Quartz Cove, STA 4+50	1	D4S-12	0.00	137.7	4.5	145.1	137.5	5.5	99.9	P	
8		DT	6	Quartz Cove, STA 3+00	1	D4S-12	0.00	137.7	4.5	148.5	140.8	5.5	102.3	P	
9		DT	6	Quartz Cove, STA 1+50	1	D4S-12	0.00	137.7	4.5	141.6	133.7	6.0	97.1	P	
10		DT	6	Granite Garden, STA 2+00	1	D4S-12	0.00	137.7	4.5	143.9	134.4	7.1	97.6	P	

**Field Compaction Summary, D6938**

Project No: 20:1910

Project Name: Stone Garden - Unit 2A

Date: 8/29/2025

ECS Southwest, LLP

Client: Lennar

Contractor: Lennar

Technician: Sergio A Trevino

Test Method D6938			
Nuclear Gauge No. 78650			
Make	Troxler	Density Std	2288
Model	3430P	Moisture Std	655
Ser. No.	78650		

Test No.	Lot No.	Test Mode	Probe Depth (in.)	Station / Location	Lift / Elev	Sample No.	% Oversize	Corrected Max. Density	Corrected Optimum Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Moisture Content (%)	Percent Comp. (%)	P / F	Comments
11		DT	6	Granite Garden, STA 3+50	1	D4S-12	0.00	137.7	4.5	144.9	135.5	6.9	98.4	P	
12		DT	6	Granite Garden, STA 5+00	1	D4S-12	0.00	137.7	4.5	145.0	136.3	6.4	99.0	P	
13		DT	6	Granite Garden, STA 6+50	1	D4S-12	0.00	137.7	4.5	139.2	131.1	6.2	95.2	P	
14		DT	6	Granite Garden, STA 8+00	1	D4S-12	0.00	137.7	4.5	143.6	136.0	5.6	98.8	P	

Attachments



Area tested

Figure 1



Area tested

Figure 2

Attachments



Area tested

Figure 3



ECS Southwest, LLP
 431 Isom Road, Suite 114
 San Antonio, TX 78216
T 210.528.1430
F 214.483.9684

LETTER OF TRANSMITTAL

September 03, 2025
 Lennar
 100 NE Loop 410 Suite 1155
 San Antonio, TX 78216
 ATTN: Mr. Nathan Nowell

RE: **Stone Garden - Unit 2A**
 ECS Job # **20:1910**
 Permits:
 Location: **14395 Old Corpus Christi Road**
Elmendorf, TX 78112

☒ Field Reports ☒ For your use ☒ As requested

CC: City of San Antonio - Development Services
 Department - Juan Ramirez

Lennar - Rogelio "Roy" Olivarez, Jr.
 V.K. Knowlton Construction - Sammy Ramos

ENCL: Field Report # 88 9/3/2025 Soil Density Testing

Adam James Heiman, P.E.
 Assistant Office Manager

Stephanie Marie Chavez
 CMT Project Professional I

Disclaimer

1. This report (and any attachments) shall not be reproduced except in full without prior written approval of ECS.
2. The information in this report relates only to the activities performed on the report date.
3. Where appropriate, this report includes statements as to compliance with applicable project drawings, and specifications for the activities, performed on this report date.
4. Incomplete or non-conforming work will be reported for future resolution.
5. The results of samples and/or specimens obtained or prepared for subsequent laboratory testing will be presented in separate reports/documents.

**ECS Southwest, LLP**

431 Isom Road, Suite 114

San Antonio, TX 78216

T 210.528.1430

F 214.483.9684

FIELD REPORT

Project **Stone Garden - Unit 2A**
 Location **Elmendorf, TX**
 Client **Lennar**
 Contractor **Lennar**

Project No. **20:1910**
 Report No. **88**
 Day & Date **Wednesday 9/3/2025**
 Weather **95 °/ Sunny**
 On-Site Time **1.75**
 Lab Time **0.50**
 Travel Time* **1.25**
 Total **3.50**
 Re Obs Time **0.00**

Remarks **Soil Density Testing**

Trip Charges*	35.00	Tolls/Parking*		Mileage*		Time of Arrival	Departure
Chargeable Items	5000					9:45A	11:30A

* Travel time and mileage will be billed in accordance with the contract.

Summary of Services Performed (field test data, locations, elevations & depths are estimates) & Individuals Contacted.

As requested, the undersigned arrived on-site, to perform soil compaction testing on Base material.

Location:
 Chalk Cave
 Gabbro Cove

Please see the attached sketch.

Civil plan page C7.00 Dated 11/14/23 and the Geotechnical Report dated 4/25/22 were reviewed prior to testing.

Utilizing the Nuclear Method ASTM D6938, to check the compaction of base material at the areas and elevations tested, test results met the project requirements of 95% of the corrected maximum dry density and a moisture content of -2% to 3% from optimum, as determined in our laboratory using the State Proctor Method TEX-113-E.

Prior to departure, Vince Arriaga with V.K Knowlton was informed of the results of the day's testing and observations.

**Field Compaction Summary, D6938**

Project No: 20:1910

Project Name: Stone Garden - Unit 2A

Date: 9/3/2025

ECS Southwest, LLP

Client: Lennar

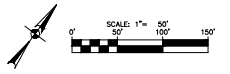
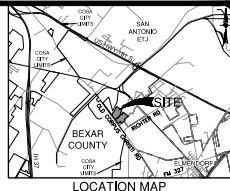
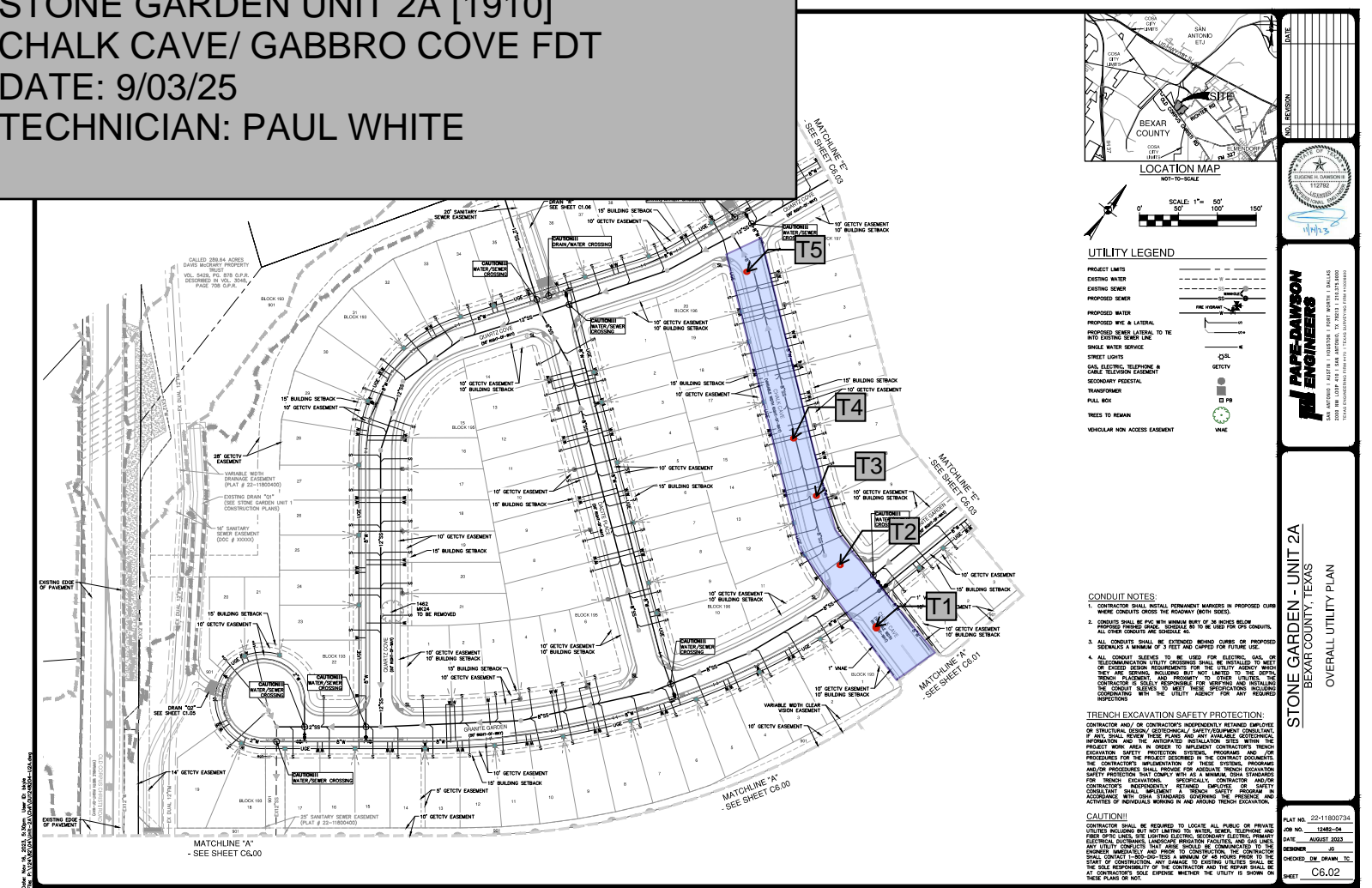
Contractor: Lennar

Technician: Paul Anthony White

Test Method D6938			
Nuclear Gauge No. 26193			
Make	Troxler	Density Std	1479
Model	3430P	Moisture Std	659
Ser. No.	26193		

Sample No.				Description			Proctor Method					Uncorrected Max. Density			Uncorrected Optimum Moisture Content
D4S-12				(GP-GC) POORLY GRADED GRAVEL WITH SILTY CLAY & SAND, Light Tan			TEX-113-E					137.7			4.5
Test No.	Lot No.	Test Mode	Probe Depth (in.)	Station / Location	Lift / Elev	Sample No.	% Oversize	Corrected Max. Density	Corrected Optimum Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Moisture Content (%)	Percent Comp. (%)	P / F	Comments
1		DT	4	Chalk Cave, STA 6+50	Final lift	D4S-12	0.00	137.7	4.5	146.5	140.2	4.5	101.8	P	
2		DT	4	Chalk Cave, STA 5+50	Final Lift	D4S-12	0.00	137.7	4.5	150.4	141.6	6.2	102.8	P	
3		DT	4	Chalk Cave, STA 4+50	Final Lift	D4S-12	0.00	137.7	4.5	138.6	131.4	5.5	95.4	P	
4		DT	4	Chalk Cave, STA 3+50	Final Lift	D4S-12	0.00	137.7	4.5	143.4	136.3	5.3	99.0	P	
5		DT	4	Chalk Cave, STA 5+50	Final Lift	D4S-12	0.00	137.7	4.5	144.4	138.0	4.6	100.2	P	
6		DT	4	Gabbro Cove, STA 4+50	Final Lift	D4S-12	0.00	137.7	4.5	148.6	140.4	5.8	102.0	P	
7		DT	4	Gabbro Cove, STA 3+00	Final Lift	D4S-12	0.00	137.7	4.5	144.0	136.1	5.8	98.8	P	
8		DT	4	Gabbro Cove, STA 1+50	Final Lift	D4S-12	0.00	137.7	4.5	147.9	140.4	5.4	102.0	P	

STONE GARDEN UNIT 2A [1910]
CHALK CAVE/ GABBRO COVE FDT
DATE: 9/03/25
TECHNICIAN: PAUL WHITE



CONDUIT NOTES:

- CONTRACTOR SHALL INSTALL PERMANENT MARKERS IN PROPOSED CURB WHERE CONDUITS CROSS THE ROADWAY (BOTH SIDES).
- CONDUITS SHALL BE PVC WITH MINIMUM RATING OF 36 INCHES BELOW FINISHED GRADE AND SHALL BE 18 INCHES BELOW FINISHED GRADE. ALL OTHER CONDUITS ARE SCHEDULE 40.
- ALL CONDUITS SHALL BE EXTENDED BEYOND CURBS ON PROPOSED SIDEWALKS A MINIMUM OF 3 FEET AND CAPPED FOR FUTURE USE.
- ALL CONDUITS SHALL BE USED FOR ELECTRICAL, GAS, OR TELECOMMUNICATIONS. CONDUITS SHALL BE INSTALLED 18 INCHES BELOW FINISHED GRADE. CONDUITS SHALL BE INSTALLED 18 INCHES BELOW FINISHED GRADE. CONDUITS SHALL BE INSTALLED 18 INCHES BELOW FINISHED GRADE. CONDUITS SHALL BE INSTALLED 18 INCHES BELOW FINISHED GRADE.

TRENCH EXCAVATION SAFETY PROTECTION:

CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL PUBLIC OR PRIVATE UTILITIES BEFORE ANY TRENCHING. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL PUBLIC OR PRIVATE UTILITIES BEFORE ANY TRENCHING. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL PUBLIC OR PRIVATE UTILITIES BEFORE ANY TRENCHING. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL PUBLIC OR PRIVATE UTILITIES BEFORE ANY TRENCHING.

CAUTION!!

CONTRACTOR SHALL BE REQUIRED TO LOCATE ALL PUBLIC OR PRIVATE UTILITIES BEFORE ANY TRENCHING. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL PUBLIC OR PRIVATE UTILITIES BEFORE ANY TRENCHING. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL PUBLIC OR PRIVATE UTILITIES BEFORE ANY TRENCHING. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL PUBLIC OR PRIVATE UTILITIES BEFORE ANY TRENCHING.

STONE GARDEN - UNIT 2A
BEXAR COUNTY, TEXAS
OVERALL UTILITY PLAN

PAPE-DAWSON
ENGINEERS

PLAT NO. 22-11800734
JOB NO. 12485-04
DATE: AUGUST 2023
DESIGNER: J.E. JAMES, JR.
CHECKED: J.E. JAMES, JR.
SHEET: C6.02



Attachments



Chalk Cave Station 650

Figure 1



Chalk Cave Stations 550-150

Figure 2

Attachments



Gabbro Cove Stations 450-150

Figure 3



ECS Southwest, LLP
 431 Isom Road, Suite 114
 San Antonio, TX 78216
T 210.528.1430
F 214.483.9684

LETTER OF TRANSMITTAL

September 04, 2025
 Lennar
 100 NE Loop 410 Suite 1155
 San Antonio, TX 78216
 ATTN: Mr. Nathan Nowell

RE: **Stone Garden - Unit 2A**
 ECS Job # **20:1910**
 Permits:
 Location: **14395 Old Corpus Christi Road**
Elmendorf, TX 78112

☒ Field Reports ☒ For your use ☒ As requested

CC: City of San Antonio - Development Services
 Department - Juan Ramirez

Lennar - Rogelio "Roy" Olivarez, Jr.
 V.K. Knowlton Construction - Sammy Ramos

ENCL:

Laboratory testing services have been completed for the following sample obtained by ECS on 08/25/2025, 08/26/2025 and 08/27/2025(reference reports 20:1952-84, 20:1952-85 and 20:1952-86).

On-site Lime-Stabilized Material:

- ID: D4S-15:for Azzurro Stone STA 11+00- Atterberg Limits (SP), Sieve Analysis, and Standard Proctor
- ID: D4S-16:for Azzurro Stone STA 5+00 - Atterberg Limits (SP), Sieve Analysis, and Standard Proctor
- ID: D4S-17:for Bassalts Garden STA 1+00- Atterberg Limits (SP), Sieve Analysis, and Standard Proctor
- ID: D4S-18:for Hornblende Trails- Atterberg Limits (SP), Sieve Analysis, and Standard Proctor
- ID: D4S-19:for Giallo Place- Atterberg Limits (SP), Sieve Analysis, and Standard Proctor
- ID: D4S-20:for Fiore Garden- Atterberg Limits (SP), Sieve Analysis, and Standard Proctor
- ID: D4S-21:for Chalk Cave STA 10+50- Atterberg Limits (SP), Sieve Analysis, and Standard Proctor
- ID: D4S-22:for Mudstone Place STA 9+50- Atterberg Limits (SP), Sieve Analysis, and Standard Proctor

Results:

Material meets criteria for Lime-Stabilized for: type, gradation and plasticity.

Disclaimer

1. This report (and any attachments) shall not be reproduced except in full without prior written approval of ECS.
2. The information in this report relates only to the activities performed on the report date.
3. Where appropriate, this report includes statements as to compliance with applicable project drawings, and specifications for the activities, performed on this report date.
4. Incomplete or non-conforming work will be reported for future resolution.
5. The results of samples and/or specimens obtained or prepared for subsequent laboratory testing will be presented in separate reports/documents.



ECS Southwest, LLP
431 Isom Road, Suite 114
San Antonio, TX 78216
T 210.528.1430
F 214.483.9684

LETTER OF TRANSMITTAL

September 04, 2025
Lennar
100 NE Loop 410 Suite 1155
San Antonio, TX 78216
ATTN: Mr. Nathan Nowell

RE: **Stone Garden - Unit 2A**
ECS Job # **20:1910**

Permits:
Location: **14395 Old Corpus Christi Road**
Elmendorf, TX 78112

☒

Field Reports

☒

For your use

☒

As requested

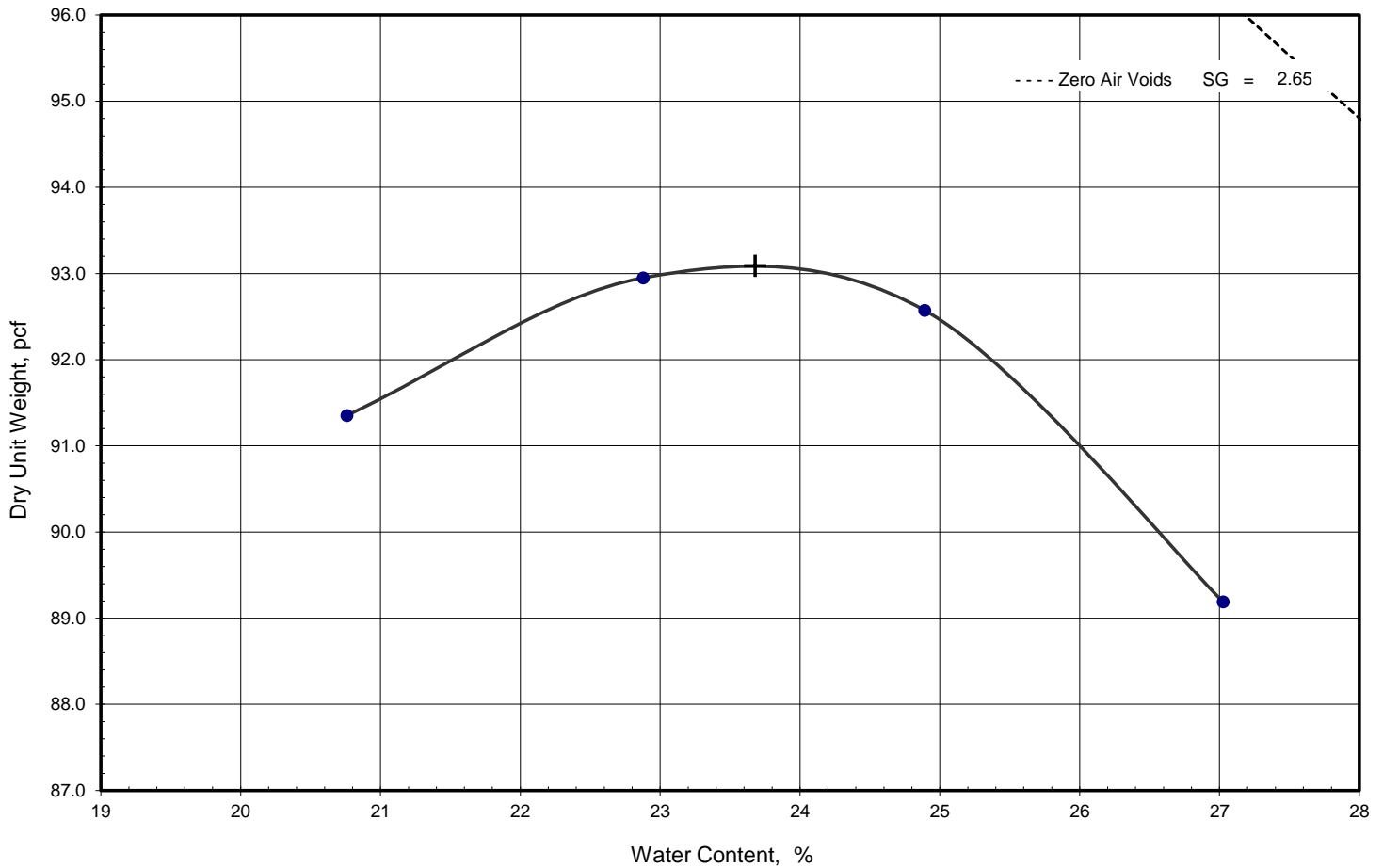
Adam James Heiman, P.E.
Assistant Office Manager

Stephanie Marie Chavez
CMT Project Professional I

Disclaimer

1. This report (and any attachments) shall not be reproduced except in full without prior written approval of ECS.
2. The information in this report relates only to the activities performed on the report date.
3. Where appropriate, this report includes statements as to compliance with applicable project drawings, and specifications for the activities, performed on this report date.
4. Incomplete or non-conforming work will be reported for future resolution.
5. The results of samples and/or specimens obtained or prepared for subsequent laboratory testing will be presented in separate reports/documents.

Laboratory Compaction Characteristics of Soil Using Standard Effort



Optimum Moisture Content

23.7 %

Maximum Dry Unit Weight

93.1 pcf

Preparation

ASTM moist preparation

Type of rammer

Mechanical - circular face

Test Specification / Method

ASTM D698-12e2-method A

Soil Description

Nat.
Moist. %

Liquid Limit

Plasticity
Index

% < #200

USCS

AASHTO

(SM) SILTY SAND, Light Reddish Brown

12.4

31

5

47.3

SM

A-4

Project: Stone Garden - Unit 2A

Client: Lennar

Sample / Source: On-site Lime stabilized material at Azzurro Stone STA 11+00

Project No.: 20:1910

Depth (ft.): 0 - 1

Sample No.: D4S-15

Date Reported: 9/3/2025



Office / Lab

Address

Office Number / Fax

ECS Southwest LLP - San Antonio

431 Isom Road
Suite 114
San Antonio, TX 78216

(210)528-1430
(214)483-9684

Tested by

Checked by

Approved by

Date Received

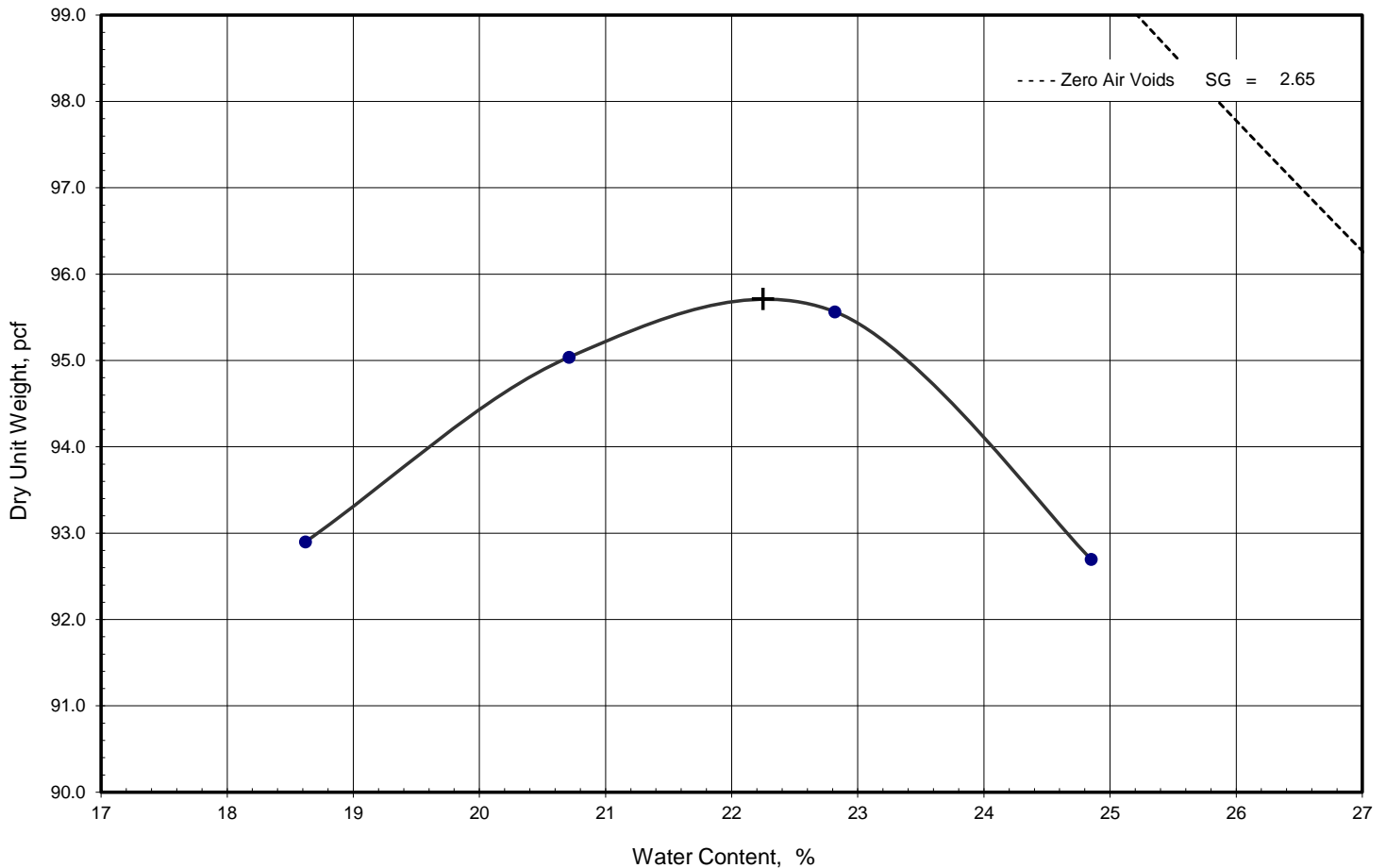
Remarks

fzuniga

fzuniga

fzuniga

Laboratory Compaction Characteristics of Soil Using Standard Effort



Optimum Moisture Content

22.2 %

Maximum Dry Unit Weight

95.7 pcf

Preparation

ASTM moist preparation

Type of rammer

Mechanical - circular face

Test Specification / Method

ASTM D698-12e2-method A

Soil Description

Nat.
Moist. %

Liquid Limit

Plasticity
Index

% < #200

USCS

AASHTO

(SM) SILTY SAND, Light Reddish Brown

12.1

NP

NP

36.6

A-4

Project: Stone Garden - Unit 2A

Client: Lennar

Sample / Source: On-site Lime stabilized material at Azzurro Stone STA 5+00

Project No.: 20:1910

Depth (ft.): 0 - 1

Sample No.: D4S-16

Date Reported: 9/3/2025



Office / Lab

Address

Office Number / Fax

ECS Southwest LLP - San Antonio

431 Isom Road
Suite 114
San Antonio, TX 78216

(210)528-1430
(214)483-9684

Tested by

Checked by

Approved by

Date Received

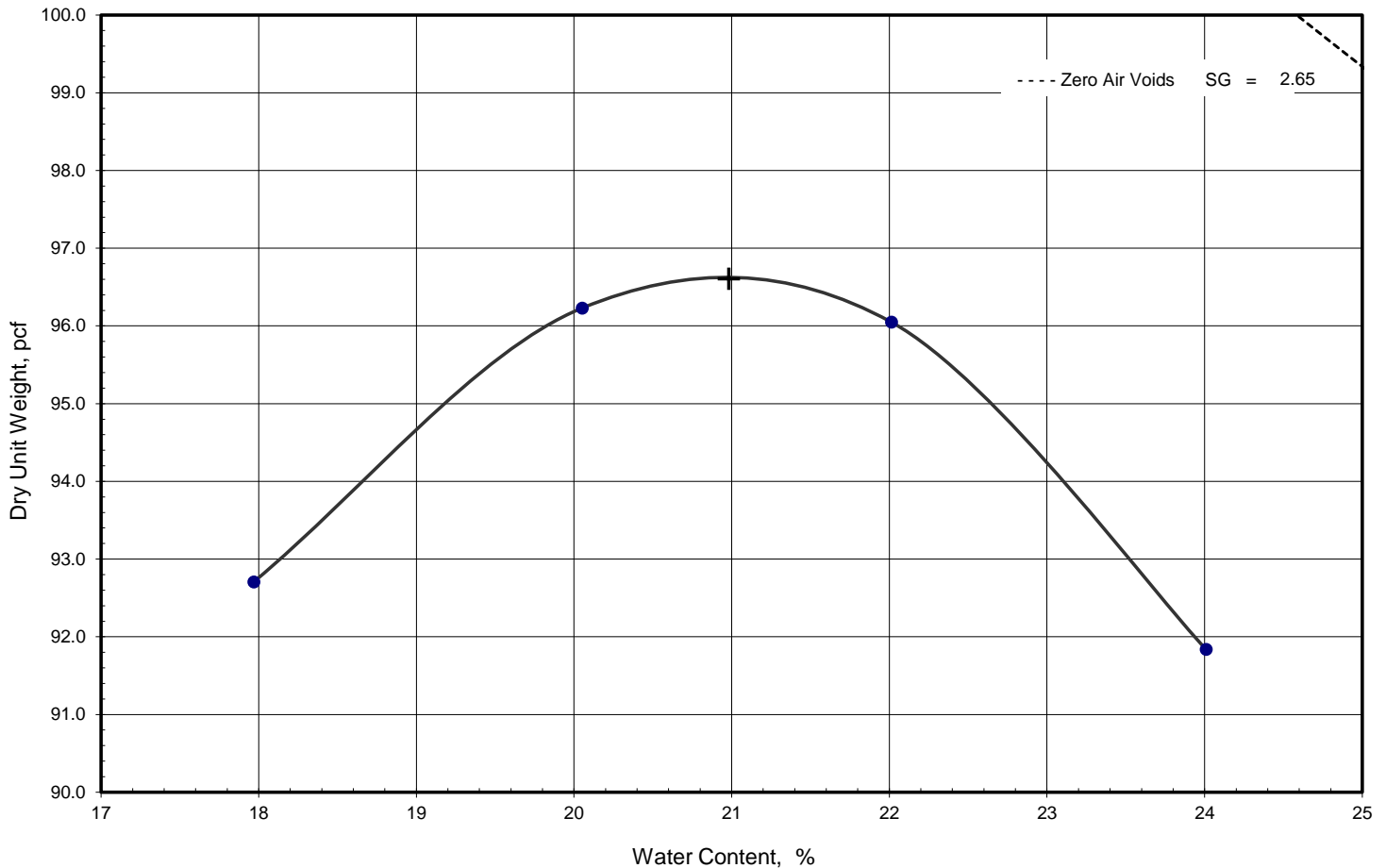
Remarks

fzuniga

fzuniga

fzuniga

Laboratory Compaction Characteristics of Soil Using Standard Effort



Optimum Moisture Content

21.0 %

Maximum Dry Unit Weight

96.6 pcf

Preparation

ASTM moist preparation

Type of rammer

Mechanical - circular face

Test Specification / Method

ASTM D698-12e2-method A

Soil Description

Nat.
Moist. %

Liquid Limit

Plasticity
Index

% < #200

USCS

AASHTO

(ML) SANDY SILT, Light Reddish Brown

10.6

32

4

51.2

ML

A-4

Project: Stone Garden - Unit 2A

Client: Lennar

Sample / Source: On-site Lime stabilized material at Bassalts Garden STA 1+00

Project No.: 20:1910

Depth (ft.): 0 - 1

Sample No.: D4S-17

Date Reported: 9/3/2025



Office / Lab

Address

Office Number / Fax

ECS Southwest LLP - San Antonio

431 Isom Road
Suite 114
San Antonio, TX 78216

(210)528-1430
(214)483-9684

Tested by

Checked by

Approved by

Date Received

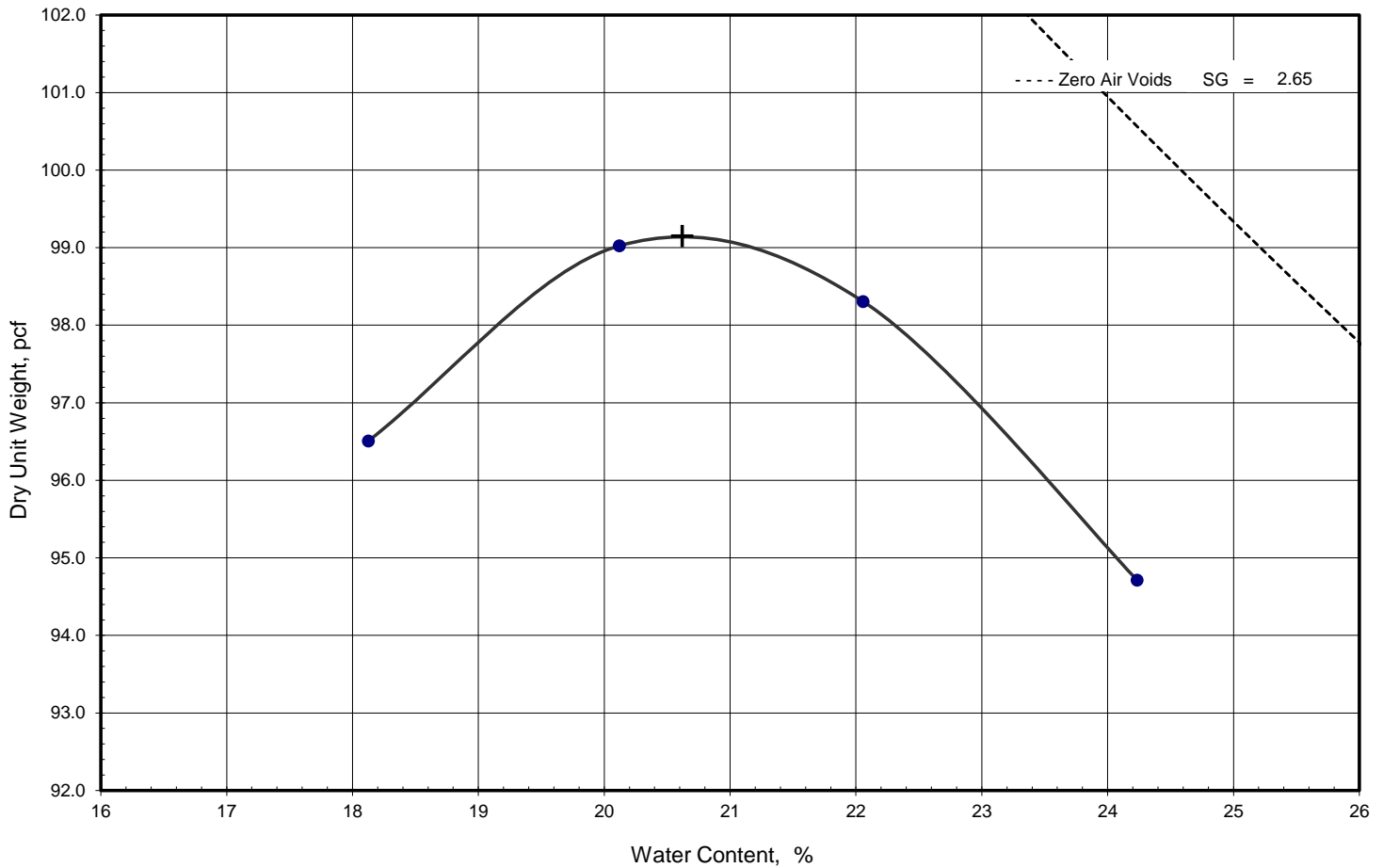
Remarks

fzuniga

fzuniga

fzuniga

Laboratory Compaction Characteristics of Soil Using Standard Effort



Optimum Moisture Content

20.6 %

Maximum Dry Unit Weight

99.2 pcf

Preparation

ASTM moist preparation

Type of rammer

Mechanical - circular face

Test Specification / Method

ASTM D698-12e2-method A

Soil Description

Nat.
Moist. %

Liquid Limit

Plasticity
Index

% < #200

USCS

AASHTO

(SM) SILTY SAND, Light Reddish Brown

13.7

NP

NP

34.7

A-2-4

Project: Stone Garden - Unit 2A

Client: Lennar

Sample / Source: On-site Lime stabilized material at Hornblende Trails

Project No.: 20:1910

Depth (ft.): 0 - 1

Sample No.: D4S-18

Date Reported: 9/3/2025



Office / Lab

Address

Office Number / Fax

ECS Southwest LLP - San Antonio

431 Isom Road
Suite 114
San Antonio, TX 78216

(210)528-1430
(214)483-9684

Tested by

Checked by

Approved by

Date Received

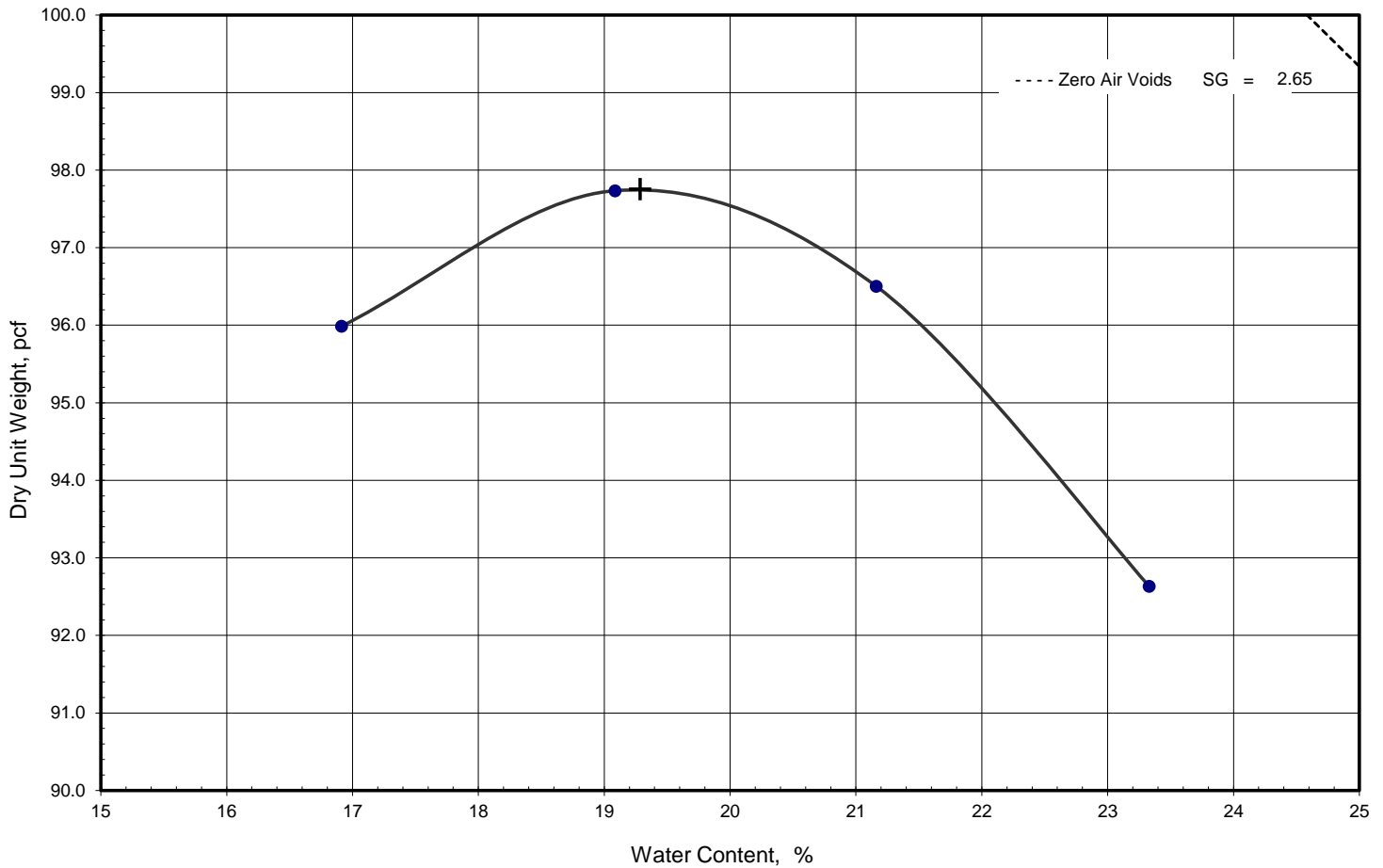
Remarks

fzuniga

fzuniga

fzuniga

Laboratory Compaction Characteristics of Soil Using Standard Effort



Optimum Moisture Content

19.3 %

Maximum Dry Unit Weight

97.8 pcf

Preparation

ASTM moist preparation

Type of rammer

Mechanical - circular face

Test Specification / Method

ASTM D698-12e2-method A

Soil Description

Nat.
Moist. %

Liquid Limit

Plasticity
Index

% < #200

USCS

AASHTO

(SM) SILTY SAND, Light Reddish Brown

12.8

NP

NP

27.6

A-2-4

Project: Stone Garden - Unit 2A

Client: Lennar

Sample / Source: On-site Lime stabilized material at Giallo Place

Project No.: 20:1910

Depth (ft.): 0 - 1

Sample No.: D4S-19

Date Reported: 9/3/2025



Office / Lab

Address

Office Number / Fax

ECS Southwest LLP - San Antonio

431 Isom Road
Suite 114
San Antonio, TX 78216

(210)528-1430
(214)483-9684

Tested by

Checked by

Approved by

Date Received

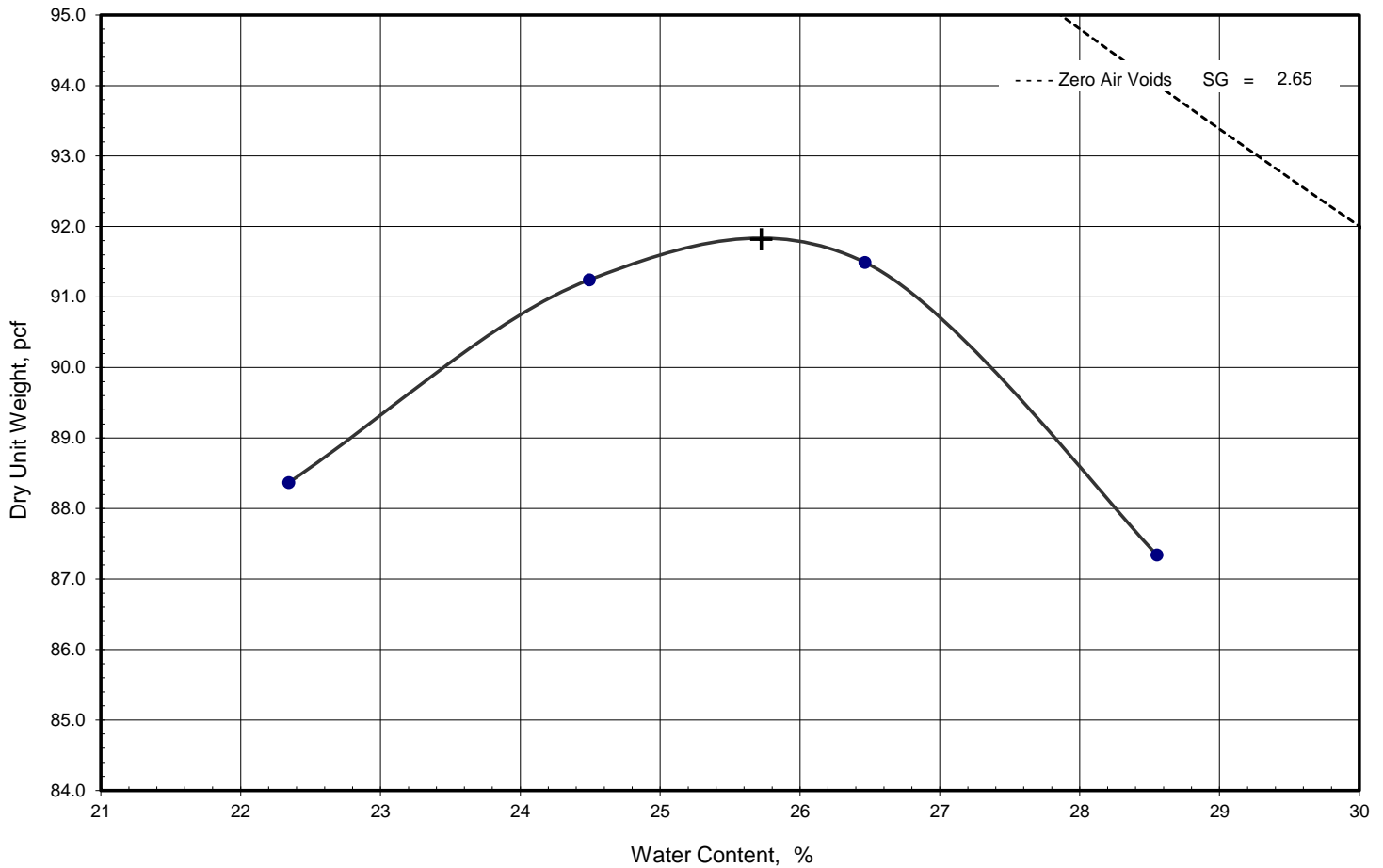
Remarks

fzuniga

fzuniga

fzuniga

Laboratory Compaction Characteristics of Soil Using Standard Effort



Optimum Moisture Content

25.7 %

Maximum Dry Unit Weight

91.8 pcf

Preparation

ASTM moist preparation

Type of rammer

Mechanical - circular face

Test Specification / Method

ASTM D698-12e2-method A

Soil Description

Nat.
Moist. %

Liquid Limit

Plasticity
Index

% < #200

USCS

AASHTO

(SM) SILTY SAND, Light Reddish Brown

17.0

NP

NP

25.5

A-2-4

Project: Stone Garden - Unit 2A

Client: Lennar

Sample / Source: On-site Lime stabilized material at Fiore Garden

Project No.: 20:1910

Depth (ft.): 0 - 1

Sample No.: D4S-20

Date Reported: 9/3/2025



Office / Lab

Address

Office Number / Fax

ECS Southwest LLP - San Antonio

431 Isom Road
Suite 114
San Antonio, TX 78216

(210)528-1430
(214)483-9684

Tested by

Checked by

Approved by

Date Received

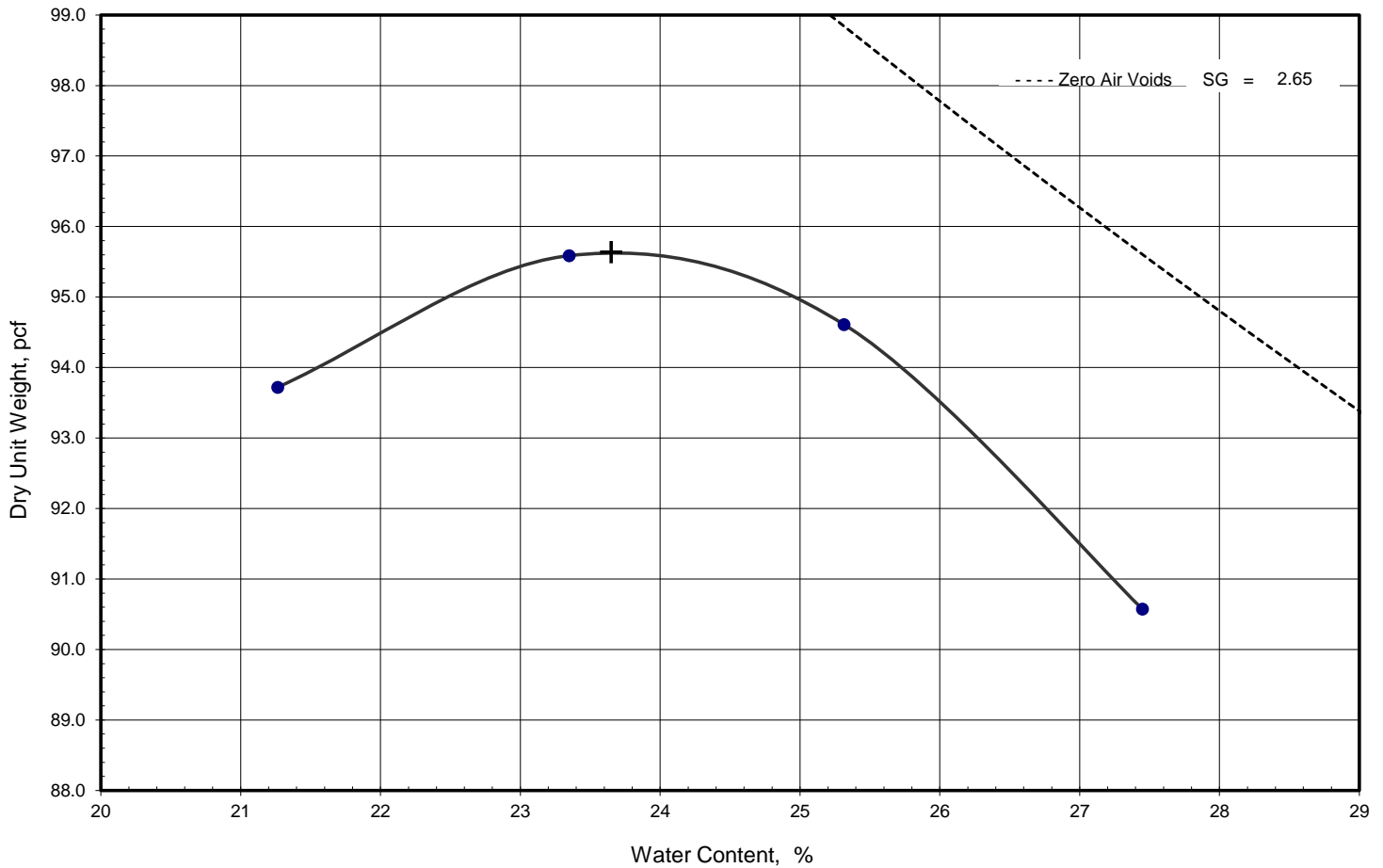
Remarks

fzuniga

fzuniga

fzuniga

Laboratory Compaction Characteristics of Soil Using Standard Effort



Optimum Moisture Content

23.6 %

Maximum Dry Unit Weight

95.6 pcf

Preparation

ASTM moist preparation

Type of rammer

Mechanical - circular face

Test Specification / Method

ASTM D698-12e2-method A

Soil Description

Nat.
Moist. %

Liquid Limit

Plasticity
Index

% < #200

USCS

AASHTO

(SM) SILTY SAND, Light Reddish Brown

16.3

NP

NP

11.6

Project: Stone Garden - Unit 2A

Client: Lennar

Sample / Source: On-site Lime stabilized material at Chalk Cave STA 10+50

Project No.: 20:1910

Depth (ft.): 0 - 1

Sample No.: D4S-21

Date Reported: 9/3/2025



Office / Lab

Address

Office Number / Fax

ECS Southwest LLP - San Antonio

431 Isom Road
Suite 114
San Antonio, TX 78216

(210)528-1430
(214)483-9684

Tested by

Checked by

Approved by

Date Received

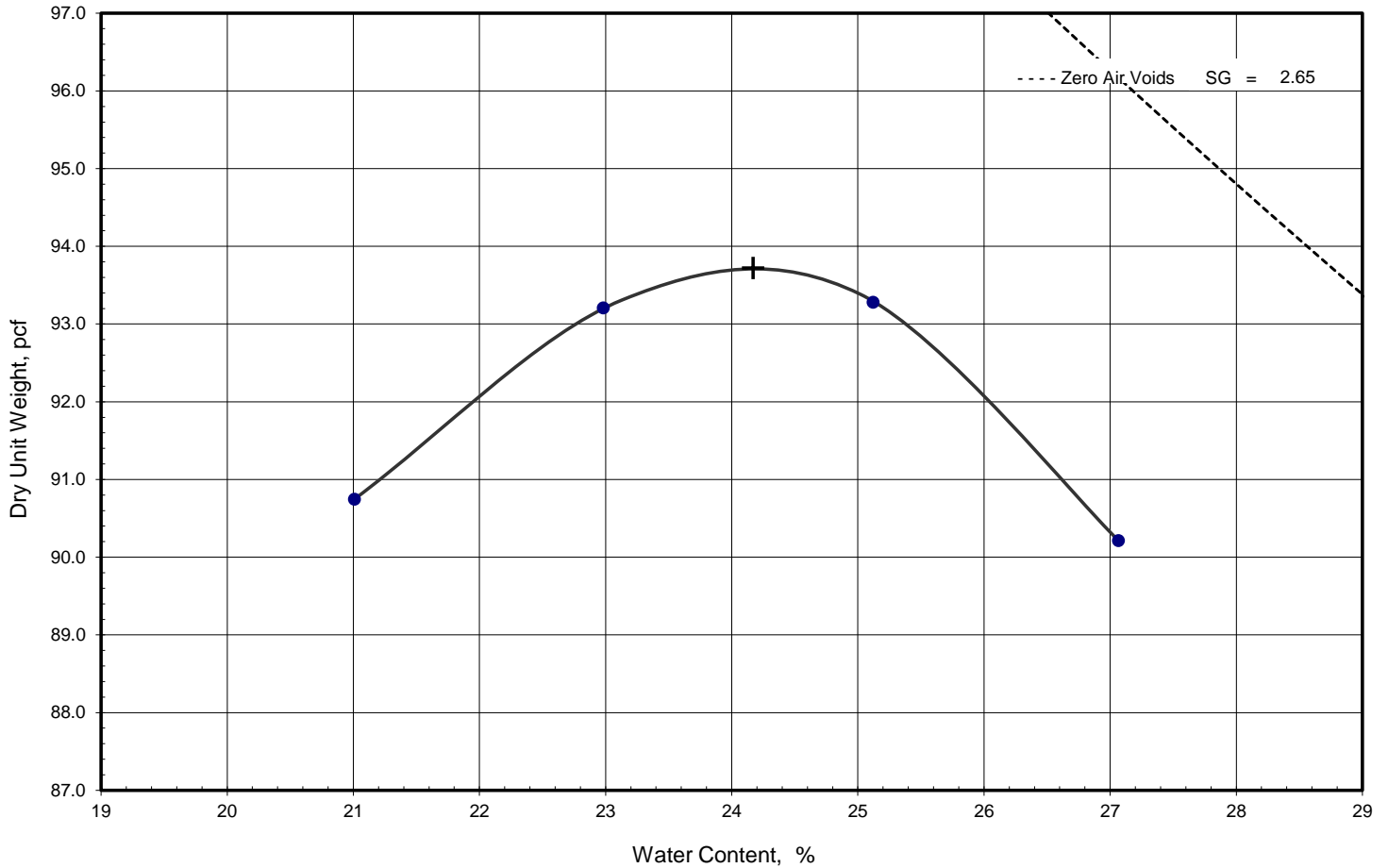
Remarks

fzuniga

fzuniga

fzuniga

Laboratory Compaction Characteristics of Soil Using Standard Effort



Optimum Moisture Content

24.2 %

Maximum Dry Unit Weight

93.7 pcf

Preparation

ASTM moist preparation

Type of rammer

Mechanical - circular face

Test Specification / Method

ASTM D698-12e2-method A

Soil Description

Nat.
Moist. %

Liquid Limit

Plasticity
Index

% < #200

USCS

AASHTO

(SM) SILTY SAND, Light Reddish Brown

12.4

NP

NP

18.0

A-2-4

Project: Stone Garden - Unit 2A

Client: Lennar

Sample / Source: On-site Lime stabilized material at Mudstone Place STA 9+50

Project No.: 20:1910

Depth (ft.): 0 - 1

Sample No.: D4S-22

Date Reported: 9/3/2025



Office / Lab

Address

Office Number / Fax

ECS Southwest LLP - San Antonio

431 Isom Road
Suite 114
San Antonio, TX 78216

(210)528-1430
(214)483-9684

Tested by

Checked by

Approved by

Date Received

Remarks

fzuniga

fzuniga

fzuniga



ECS Southwest, LLP
 431 Isom Road, Suite 114
 San Antonio, TX 78216
T 210.528.1430
F 214.483.9684

LETTER OF TRANSMITTAL

September 04, 2025
 Lennar
 100 NE Loop 410 Suite 1155
 San Antonio, TX 78216
 ATTN: Mr. Nathan Nowell

RE: **Stone Garden - Unit 2A**
 ECS Job # **20:1910**
 Permits:
 Location: **14395 Old Corpus Christi Road**
Elmendorf, TX 78112

☒ Field Reports ☒ For your use ☒ As requested

CC: City of San Antonio - Development Services
 Department - Juan Ramirez

Lennar - Rogelio "Roy" Olivarez, Jr.
 V.K. Knowlton Construction - Sammy Ramos

ENCL: Field Report # 89 9/4/2025 Soil Density Testing

Adam James Heiman, P.E.
 Assistant Office Manager

Stephanie Marie Chavez
 CMT Project Professional I

Disclaimer

1. This report (and any attachments) shall not be reproduced except in full without prior written approval of ECS.
2. The information in this report relates only to the activities performed on the report date.
3. Where appropriate, this report includes statements as to compliance with applicable project drawings, and specifications for the activities, performed on this report date.
4. Incomplete or non-conforming work will be reported for future resolution.
5. The results of samples and/or specimens obtained or prepared for subsequent laboratory testing will be presented in separate reports/documents.

**ECS Southwest, LLP**

431 Isom Road, Suite 114

San Antonio, TX 78216

T 210.528.1430

F 214.483.9684

FIELD REPORT

Project **Stone Garden - Unit 2A**
 Location **Elmendorf, TX**
 Client **Lennar**
 Contractor **Lennar**

Project No. **20:1910**
 Report No. **89**
 Day & Date **Thursday 9/4/2025**
 Weather **85 °/ Sunny**
 On-Site Time **3.75**
 Lab Time **0.75**
 Travel Time* **0.50**
 Total **5.00**
 Re Obs Time **0.00**

Remarks **Soil Density Testing**

Trip Charges*	35.00	Tolls/Parking*		Mileage*		Time of Arrival	Departure
Chargeable Items	5000					9:00A	12:45P

* Travel time and mileage will be billed in accordance with the contract.

Summary of Services Performed (field test data, locations, elevations & depths are estimates) & Individuals Contacted.

The undersigned arrived on-site, as requested to observe the placement and compaction of Lime stabilized Material.

Location:

Mudstone Trail, Subgrade

Basalt Garden, Subgrade

Azzuro Stone, Subgrade

Hornblende Trails, Subgrade

Please see the attached sketch.

Civil plan page C7.00 Dated 11/14/23 and the Geotechnical Report dated 4/25/22 were reviewed prior to testing.

Utilizing Nuclear Method ASTM D 6938, to check the compaction of subgrade at the areas and elevations tested, test results met the project requirements of 95% of the corrected maximum dry density and a moisture content of -3% to 3% from optimum as approved by City Inspector and determined in our laboratory using the Standard Proctor Method ASTM D698.

Prior to departure, Sammy Ramos and Pablo with V.K Knowlton was informed of the results of the day's testing and observations.



Field Compaction Summary, D6938

Project No: 20:1910

Project Name: Stone Garden - Unit 2A

Date: 9/4/2025

ECS Southwest, LLP

Client: Lennar

Contractor: Lennar

Technician: Paul Anthony White

Test Method D6938			
Nuclear Gauge No. 26193			
Make	Troxler	Density Std	1481
Model	3430P	Moisture Std	662
Ser. No.	26193		

Sample No.				Description			Proctor Method					Uncorrected Max. Density			Uncorrected Optimum Moisture Content
D4S-22				SILTY SAND, Light Reddish Brown			Standard Proctor Method (ASTM D-698)					93.7			24.2
D4S-19				(SM) SILTY SAND, Light Reddish Brown			ASTM D698-12e2-method A					97.8			19.3
Test No.	Lot No.	Test Mode	Probe Depth (in.)	Station / Location	Lift / Elev	Sample No.	% Oversize	Corrected Max. Density	Corrected Optimum Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Moisture Content (%)	Percent Comp. (%)	P / F	Comments
1		DT	4	T1A MUDSTONE STA 9+50	Subgrade	D4S-22	0.00	93.7	24.2	109.8	91.2	20.4	97.3	P	Approved by city inspector
2		DT	4	T2A MUDSTONE STA 8+00	SUBGRADE	D4S-22	0.00	93.7	24.2	116.5	95.6	21.9	102.0	P	
3		DT	4	T3A MUDSTONE STA 6+50	SUBGRADE	D4S-19	0.00	97.8	19.3	112.5	92.9	21.0	95.0	P	
4		DT	4	T4A MUDSTONE STA 5+00	SUBGRADE	D4S-19	0.00	97.8	19.3	115.9	97.1	19.4	99.3	P	
5		DT	4	T5A MUDSTONE STA 3+50	SUBGRADE	D4S-19	0.00	97.8	19.3	111.1	95.4	16.4	97.5	P	
6		DT	4	T6A MUDSTONE STA 2+00	SUBGRADE	D4S-19	0.00	97.8	19.3	113.1	96.1	17.6	98.3	P	
7		DT	4	T1B BASALT STA 2+00	SUBGRADE	D4S-19	0.00	97.8	19.3	108.6	93.1	16.6	95.2	P	
8		DT	4	T2B BASALT STA 3+50	SUBGRADE	D4S-19	0.00	97.8	19.3	110.8	94.3	17.6	96.4	P	
9		DT	4	T1C AZZURO STA 2+00	SUBGRADE	D4S-19	0.00	97.8	19.3	115.1	98.4	16.9	100.6	P	
10		DT	4	T2C AZZURO STA 3+50	SUBGRADE	D4S-19	0.00	97.8	19.3	114.3	98.0	16.6	100.2	P	

**Field Compaction Summary, D6938**

Project No: 20:1910

Project Name: Stone Garden - Unit 2A

Date: 9/4/2025

ECS Southwest, LLP

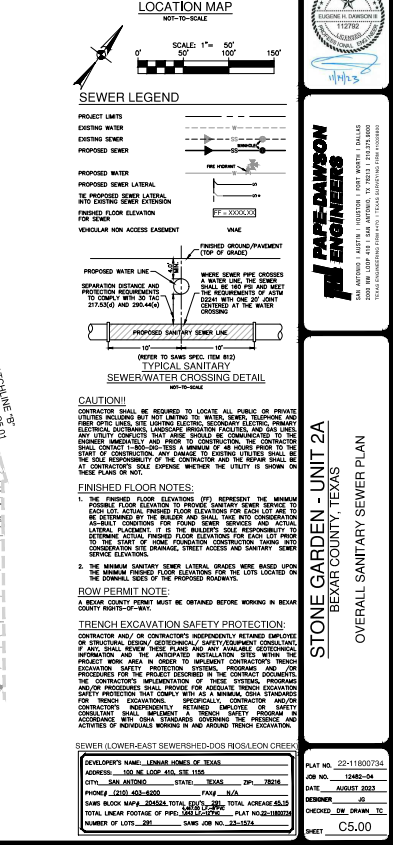
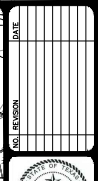
Client: Lennar

Contractor: Lennar

Technician: Paul Anthony White

Test Method D6938			
Nuclear Gauge No. 26193			
Make	Troxler	Density Std	1481
Model	3430P	Moisture Std	662
Ser. No.	26193		

Test No.	Lot No.	Test Mode	Probe Depth (in.)	Station / Location	Lift / Elev	Sample No.	% Oversize	Corrected Max. Density	Corrected Optimum Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Moisture Content (%)	Percent Comp. (%)	P / F	Comments
11		DT	4	T1D HONRBLEND STA 7+50	SUBG RADE	D4S- 19	0.00	97.8	19.3	115.5	95.2	21.4	97.3	P	
12		DT	4	T2D HONRBLEND STA 4+50	SUBG RADE	D4S- 19	0.00	97.8	19.3	115.3	98.4	17.2	100.6	P	
13		DT	4	T3D HONRBLEND STA 3+00	SUBG RADE	D4S- 19	0.00	97.8	19.3	113.7	94.9	19.8	97.0	P	
14		DT	4	T4D HONRBLEND STA 2+00	SUBG RADE	D4S- 19	0.00	97.8	19.3	114.8	96.5	19.0	98.7	P	



Attachments



Roller

Figure 1



MUDSTONE

Figure 2

Attachments



MUDSTONE Con.

Figure 3



MUDSTONE Con.

Figure 4

Attachments



BASALT

Figure 5



AZZURO

Figure 6

Attachments



HORNBLENDE

Figure 7



ECS Southwest, LLP
 431 Isom Road, Suite 114
 San Antonio, TX 78216
T 210.528.1430
F 214.483.9684

LETTER OF TRANSMITTAL

September 08, 2025
 Lennar
 100 NE Loop 410 Suite 1155
 San Antonio, TX 78216
 ATTN: Mr. Nathan Nowell

RE: **Stone Garden - Unit 2A**
 ECS Job # **20:1910**
 Permits:
 Location: **14395 Old Corpus Christi Road**
Elmendorf, TX 78112

☒ Field Reports ☒ For your use ☒ As requested

CC: City of San Antonio - Development Services
 Department - Juan Ramirez

Lennar - Rogelio "Roy" Olivarez, Jr.
 V.K. Knowlton Construction - Sammy Ramos

ENCL: Field Report # 90 9/5/2025 Soil Density Testing

Adam James Heiman, P.E.
 Assistant Office Manager

Stephanie Marie Chavez
 CMT Project Professional I

Disclaimer

1. This report (and any attachments) shall not be reproduced except in full without prior written approval of ECS.
2. The information in this report relates only to the activities performed on the report date.
3. Where appropriate, this report includes statements as to compliance with applicable project drawings, and specifications for the activities, performed on this report date.
4. Incomplete or non-conforming work will be reported for future resolution.
5. The results of samples and/or specimens obtained or prepared for subsequent laboratory testing will be presented in separate reports/documents.

**ECS Southwest, LLP**

431 Isom Road, Suite 114

San Antonio, TX 78216

T 210.528.1430

F 214.483.9684

FIELD REPORT

Project **Stone Garden - Unit 2A**
 Location **Elmendorf, TX**
 Client **Lennar**
 Contractor **Lennar**

Project No. **20:1910**
 Report No. **90**
 Day & Date **Friday 9/5/2025**
 Weather **99 % Sunny**
 On-Site Time **2.00**
 Lab Time **0.25**
 Travel Time* **0.50**
 Total **2.75**
 Re Obs Time **0.00**

Remarks **Soil Density Testing**

Trip Charges*	35.00	Tolls/Parking*		Mileage*		Time of Arrival		Departure
Chargeable Items	5000					8:30A		10:30A

* Travel time and mileage will be billed in accordance with the contract.

Summary of Services Performed (field test data, locations, elevations & depths are estimates) & Individuals Contacted.

The undersigned arrived on-site, as requested to observe the placement and compaction of Base Material.

Locations:

Granite Garden, First lift

Dacite Place, First lift.

Please see the attached sketch.

Civil plan Pages C5.02 and 5.03 dated 11/14/23 and the Geotechnical Report dated 4/25/22 were reviewed prior to testing.

Utilizing Nuclear Method ASTM D 6938, to check the compaction of Base material at the areas and elevations tested, test results met the project requirements of 95% of the corrected maximum dry density and a moisture content of -2% to 3% from optimum, as determined in our laboratory using the TxDOT Test Method TEX-113-E.

While on site, the undersigned observed the placement and compaction of Lime Stabilized Subgrade.

Locations:

CHALK CAVE, Subgrade

FIORE GARDEN, Subgrade

AZZURRO GARDEN, Subgrade

GIALLO PLACE, Subgrade

Please see the attached sketch.

By Paul Anthony White

1800

Civil plan page C7.00 Dated 11/14/23 and the Geotechnical Report dated 4/25/22 were reviewed prior to testing.

Utilizing Nuclear Method ASTM D 6938, to check the compaction of subgrade at the areas and elevations tested, test results met the project requirements of 95% of the corrected maximum dry density and a moisture content of -3% to 3% from optimum as approved by City Inspector and as determined in our laboratory using the Standard Proctor Method ASTM D698.

Prior to departure, Sammy Ramos and Pablo with V.K Knowlton was informed of the results of the day's testing and observations.

**Field Compaction Summary, D6938**

Project No: 20:1910

Project Name: Stone Garden - Unit 2A

Date: 9/5/2025

ECS Southwest, LLP

Client: Lennar

Contractor: Lennar

Technician: Paul Anthony White

Test Method D6938			
Nuclear Gauge No. 75821			
Make	Troxler	Density Std	2364
Model	3430P	Moisture Std	736
Ser. No.	78521		

Sample No.				Description			Proctor Method					Uncorrected Max. Density		Uncorrected Optimum Moisture Content	
D4S-12				(GP-GC) POORLY GRADED GRAVEL WITH SILTY CLAY & SAND, Light Tan			TEX-113-E					137.7		4.5	
D4S-19				(SM) SILTY SAND, Light Reddish Brown			ASTM D698-12e2-method A					97.8		19.3	
Test No.	Lot No.	Test Mode	Probe Depth (in.)	Station / Location	Lift / Elev	Sample No.	% Oversize	Corrected Max. Density	Corrected Optimum Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Moisture Content (%)	Percent Comp. (%)	P / F	Comments
1		DT	4	T1A Dacite Place, STA 1+50	1st Lift	D4S-12	0.00	137.7	4.5	154.3	147.5	4.6	107.1	P	
2		DT	4	T2A Dacite Place, STA 3+50	1st Lift	D4S-12	0.00	137.7	4.5	144.9	139.1	4.1	101.0	P	
3		DT	4	T3A Dacite Place, STA 4+00	1st Lift	D4S-12	0.00	137.7	4.5	151.2	144.7	4.4	105.1	P	
4		DT	4	T4A Dacite Place, STA 5+69	1st Lift	D4S-12	0.00	137.7	4.5	157.7	151.1	4.4	109.7	P	
5		DT	4	T1B Granite Garden, STA 9+50	1st Lift	D4S-12	0.00	137.7	4.5	152.8	146.2	4.6	106.2	P	
6		DT	4	T2B Granite Garden, STA 11+00	1st Lift	D4S-12	0.00	137.7	4.5	150.0	142.5	5.2	103.5	P	
7		DT	4	T3B Granite Garden, STA 12+50	1st Lift	D4S-12	0.00	137.7	4.5	150.1	141.6	6.0	102.8	P	
8		DT	4	T1C, Azzurro Garden, STA 4+50	SUBGRADE	D4S-19	0.00	97.8	19.3	117.5	99.2	18.5	101.4	P	
9		DT	4	T2C, Azzurro Garden, STA 6+00	SUBGRADE	D4S-19	0.00	97.8	19.3	110.2	99.8	18.4	102.0	P	

**Field Compaction Summary, D6938**

Project No: 20:1910

Project Name: Stone Garden - Unit 2A

Date: 9/5/2025

ECS Southwest, LLP

Client: Lennar

Contractor: Lennar

Technician: Paul Anthony White

Test Method D6938			
Nuclear Gauge No. 75821			
Make	Troxler	Density Std	2364
Model	3430P	Moisture Std	736
Ser. No.	78521		

Test No.	Lot No.	Test Mode	Probe Depth (in.)	Station / Location	Lift / Elev	Sample No.	% Oversize	Corrected Max. Density	Corrected Optimum Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Moisture Content (%)	Percent Comp. (%)	P / F	Comments
10		DT	4	T3C, Azzurro Garden, STA 7+50	SUBG RADE	D4S-19	0.00	97.8	19.3	125.0	107.1	16.7	109.5	P	
11		DT	4	T4C, Azzurro Garden, STA 9+00	SUBG RADE	D4S-19	0.00	97.8	19.3	120.8	102.7	17.5	105.0	P	
12		DT	4	T5C, Azzurro Garden, STA 10+50	SUBG RADE	D4S-19	0.00	97.8	19.3	114.1	96.7	18.0	98.9	P	
13		DT	4	T6C, Azzurro Garden, STA 11+50	SUBG RADE	D4S-19	0.00	97.8	19.3	118.6	101.4	17.0	103.7	P	
14		DT	4	T7C, Azzurro Garden, STA 13+00	SUBG RADE	D4S-19	0.00	97.8	19.3	126.0	105.0	20.0	107.4	P	
15		DT	4	T1D, Chalk Cave, STA 15+00	SUBG RADE	D4S-19	0.00	97.8	19.3	129.4	108.7	19.1	111.1	P	
16		DT	4	T2D, Chalk Cave, STA 13+50	SUBG RADE	D4S-19	0.00	97.8	19.3	120.2	100.8	19.1	103.1	P	
17		DT	4	T3D, Chalk Cave, STA 12+00	SUBG RADE	D4S-19	0.00	97.8	19.3	122.9	100.7	22.1	103.0	P	
18		DT	4	T4D, Chalk Cave, STA 10+50	SUBG RADE	D4S-19	0.00	97.8	19.3	120.9	99.6	21.4	101.8	P	
19		DT	4	T1E, Fiore Garden, STA 1+50	SUBG RADE	D4S-19	0.00	97.8	19.3	116.3	98.7	17.8	100.9	P	
20		DT	4	T2E, Fiore Garden, STA 3+00	SUBG RADE	D4S-19	0.00	97.8	19.3	114.7	94.2	21.8	96.3	P	
21		DT	4	T3E, Fiore Garden, STA 5+09.86	SUBG RADE	D4S-19	0.00	97.8	19.3	121.7	104.6	16.4	107.0	P	
22		DT	4	T1F, Giallo Place, STA 3+00	SUBG RADE	D4S-19	0.00	97.8	19.3	119.9	101.7	17.9	104.0	P	

**Field Compaction Summary, D6938**

Project No: 20:1910

Project Name: Stone Garden - Unit 2A

Date: 9/5/2025

ECS Southwest, LLP

Client: Lennar

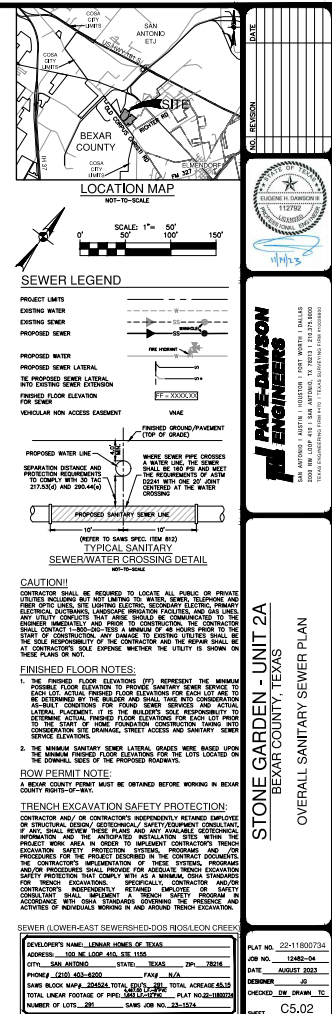
Contractor: Lennar

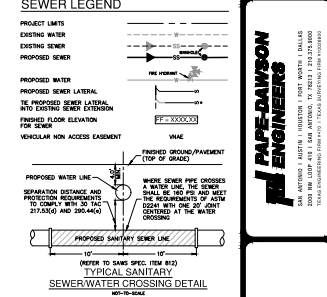
Technician: Paul Anthony White

Test Method D6938			
Nuclear Gauge No. 75821			
Make	Troxler	Density Std	2364
Model	3430P	Moisture Std	736
Ser. No.	78521		

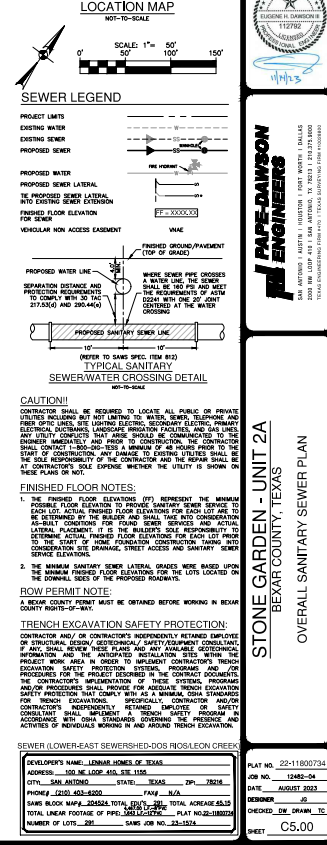
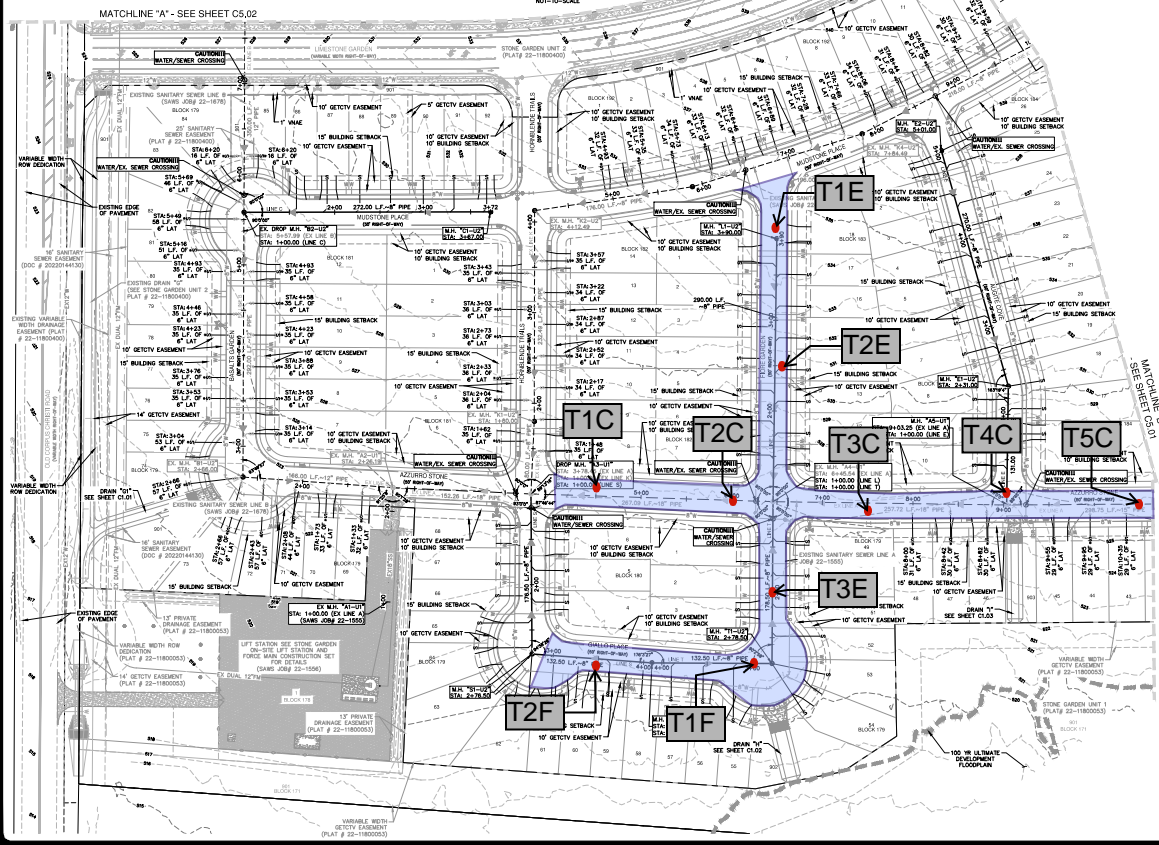
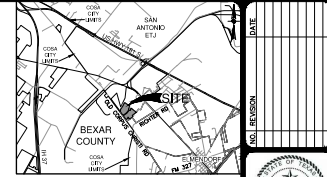
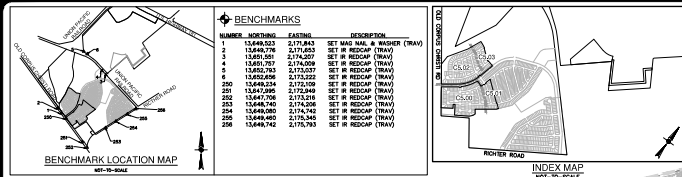
Test No.	Lot No.	Test Mode	Probe Depth (in.)	Station / Location	Lift / Elev	Sample No.	% Oversize	Corrected Max. Density	Corrected Optimum Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Moisture Content (%)	Percent Comp. (%)	P / F	Comments
23		DT	4	T2F, Giallo Place, STA 2+00	SUBGRADE	D4S-19	0.00	97.8	19.3	123.8	106.4	16.4	108.8	P	

STONE GARDEN UNIT 2A [1910]
GRANITE GARDEN/ DACITE PLACE FDT
1ST LIFT
DATE: 9/05/25
TECHNICIAN: PAUL WHITE



[illegible]

SEWER (LOWER-EAST SEWERSHED-DOS ROSALES CREEK)		PLAT NO. 22-11800734
DEVELOPER'S NAME: LONNAR HOMES OF TEXAS		JOB NO. 12482-04
ADDRESS: 500 HE LOOP 450, STE 1100		DATE: AUGUST 2013
CITY: SAN ANTONIO	STATE: TEXAS	ZIP: 78216
PHONE: (210) 453-6000	FAX: N/A	DESIGNER: JD
PROJECT: 205552, TOTAL ACRES 54.5		CHECKED: DW. DRAMIN, TC
TOTAL LINEAR FOOTAGE OF PIPE: 4020.12' PLAT NO. 22-118072		SHEET C5.01
NUMBER OF LOTS: 290		SANES JOB NO. 23-1574



THESE PLANS AND SPECIFICATIONS ARE THE PROPERTY OF PAPER DAWSON ENGINEERS, P.C. AND ARE NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF PAPER DAWSON ENGINEERS, P.C. ANY UNAUTHORIZED USE OF THESE PLANS IS PROHIBITED AND WILL BE PROSECUTED TO THE FULL EXTENT OF THE LAW. THE USER OF THESE PLANS AGREES TO HOLD PAPER DAWSON ENGINEERS, P.C. HARMLESS FROM ANY AND ALL CLAIMS, DAMAGES, LOSSES, AND EXPENSES, INCLUDING ATTORNEY'S FEES, THAT MAY BE ASSERTED AGAINST OR INCURRED BY PAPER DAWSON ENGINEERS, P.C. OR ITS EMPLOYEES, AGENTS, OR SUBCONTRACTORS, IN CONNECTION WITH THE USE OF THESE PLANS. THE USER OF THESE PLANS AGREES TO INDEMNIFY AND HOLD PAPER DAWSON ENGINEERS, P.C. HARMLESS FROM ANY AND ALL CLAIMS, DAMAGES, LOSSES, AND EXPENSES, INCLUDING ATTORNEY'S FEES, THAT MAY BE ASSERTED AGAINST OR INCURRED BY PAPER DAWSON ENGINEERS, P.C. OR ITS EMPLOYEES, AGENTS, OR SUBCONTRACTORS, IN CONNECTION WITH THE USE OF THESE PLANS. THE USER OF THESE PLANS AGREES TO INDEMNIFY AND HOLD PAPER DAWSON ENGINEERS, P.C. HARMLESS FROM ANY AND ALL CLAIMS, DAMAGES, LOSSES, AND EXPENSES, INCLUDING ATTORNEY'S FEES, THAT MAY BE ASSERTED AGAINST OR INCURRED BY PAPER DAWSON ENGINEERS, P.C. OR ITS EMPLOYEES, AGENTS, OR SUBCONTRACTORS, IN CONNECTION WITH THE USE OF THESE PLANS.

Attachments



COMPACTION METHOD

Figure 1



DACITE PLACE TESTING

Figure 2

Attachments



GRANITE GARDEN TESTING

Figure 3



AZZURRO STONE TESTING

Figure 4

Attachments



AZZURRO Con.

Figure 5



AZZURRO End

Figure 6

Attachments



CHALK CAVE TESTING

Figure 7



FIORE TESTING

Figure 8

Attachments



GIALLO TESTING

Figure 9



ECS Southwest, LLP
 431 Isom Road, Suite 114
 San Antonio, TX 78216
 T 210.528.1430
 F 214.483.9684

LETTER OF TRANSMITTAL

September 10, 2025
 Lennar
 100 NE Loop 410 Suite 1155
 San Antonio, TX 78216
 ATTN: Mr. Nathan Nowell

RE: **Stone Garden - Unit 2A**
 ECS Job # **20:1910**
 Permits:
 Location: **14395 Old Corpus Christi Road**
Elmendorf, TX 78112

☒ Field Reports ☒ For your use ☒ As requested

CC: City of San Antonio - Development Services
 Department - Juan Ramirez

Lennar - Rogelio "Roy" Olivarez, Jr.
 V.K. Knowlton Construction - Sammy Ramos

ENCL: Field Report # 91 9/10/2025 Soil Density Testing

Adam James Heiman, P.E.
 Assistant Office Manager

Stephanie Marie Chavez
 CMT Project Professional I

Disclaimer

1. This report (and any attachments) shall not be reproduced except in full without prior written approval of ECS.
2. The information in this report relates only to the activities performed on the report date.
3. Where appropriate, this report includes statements as to compliance with applicable project drawings, and specifications for the activities, performed on this report date.
4. Incomplete or non-conforming work will be reported for future resolution.
5. The results of samples and/or specimens obtained or prepared for subsequent laboratory testing will be presented in separate reports/documents.

**ECS Southwest, LLP**

431 Isom Road, Suite 114

San Antonio, TX 78216

T 210.528.1430

F 214.483.9684

FIELD REPORT

Project **Stone Garden - Unit 2A**
 Location **Elmendorf, TX**
 Client **Lennar**
 Contractor **Lennar**

Project No. **20:1910**
 Report No. **91**
 Day & Date **Wednesday 9/10/2025**
 Weather **80 °/ Clear**
 On-Site Time **2.25**
 Lab Time **0.25**
 Travel Time* **0.58**
 Total **3.08**
 Re Obs Time **0.00**

Remarks **Soil Density Testing**

Trip Charges*	35.00	Tolls/Parking*		Mileage*		Time of Arrival	Departure
Chargeable Items	5000					8:00A	10:15A

* Travel time and mileage will be billed in accordance with the contract.

Summary of Services Performed (field test data, locations, elevations & depths are estimates) & Individuals Contacted.

The undersigned arrived on-site, as requested to observe the placement and compaction of base material.

Location:

Chalk Road, STA 4+50-6+50, lift 1

Please see the attached sketch.

Civil plan page C2.16 dated 09.11.2023 and Geotechnical Report dated 04.25.2022 were reviewed prior to testing.

Utilizing the Nuclear Method ASTM D6938, to check the compaction of select fill at the areas and elevations tested, test results met the project requirements of 95% of the corrected maximum dry density and a moisture content of -2% to +3% from optimum, as determined in our laboratory using the Proctor Method TEX-113-E.

Prior to departure, Sammy Ramos with V.K Knowlton and Santiago V. with COSA was informed of the results of the day's testing and observations.

**Field Compaction Summary, D6938**

Project No: 20:1910

Project Name: Stone Garden - Unit 2A

Date: 9/10/2025

ECS Southwest, LLP

Client: Lennar

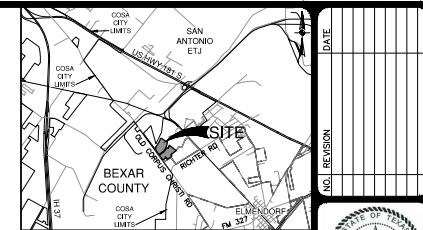
Contractor: Lennar

Technician: JT Gomez

Test Method D6938			
Nuclear Gauge No. 78650			
Make		Density Std	2238
Model		Moisture Std	655
Ser. No.	78650		

Sample No.				Description			Proctor Method					Uncorrected Max. Density			Uncorrected Optimum Moisture Content
D4S-12				Poorly Graded Gravel with silty clay and sand, Light Tan			Proctor Method TEX 113E					137.7			4.5
Test No.	Lot No.	Test Mode	Probe Depth (in.)	Station / Location	Lift / Elev	Sample No.	% Oversize	Corrected Max. Density	Corrected Optimum Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Moisture Content (%)	Percent Comp. (%)	P / F	Comments
1		DT	6	STA 6+50	2	D4S-12	0.00	137.7	4.5	153.2	145.3	5.5	105.5	P	Passed by Santiago V with COSA
2		DT	6	5+50	2	D4S-12	0.00	137.7	4.5	181.7	135.5	4.6	98.4	P	
3		DT	6	4+50	2	D4S-12	0.00	137.7	4.5	151.7	145.3	4.4	105.5	P	Passed by Santiago V with COSA

Approximate Test: 09.10.2025 Technician Jonathan Gomez



PROJECT LIMITS

EXISTING WATER

EXISTING SEWER

PROPOSED SEWER

PROPOSED WATER LATERAL

FINISHED FLOOR ELEVATION FOR SEWER

VEHICULAR NON ACCESS EASEMENT

VNAE

FINISHED GROUND/PAVEMENT (TOP OF GRADE)

SEPARATION DISTANCE AND PROTECTION REQUIREMENTS TO COMPLY WITH 30 TAC 217.53(6) AND 290.44(6)

PROPOSED SANITARY SEWER LINE

WHERE SEWER PIPE CROSSES A WATER LINE, THE SEWER SHALL BE TWO FEET DEEPER THAN THE REQUIREMENTS OF AUSTIN 22241.11. ONE 20' JOINT CENTERED AT THE WATER CROSSING

CONTRACTOR SHALL BE REQUIRED TO LOCATE ALL PUBLIC OR PRIVATE UTILITIES INCLUDING BUT NOT LIMITING TO: WATER, SEWER, TELEPHONE, FIBER OPTIC LINES, SITE LIGHTING ELECTRIC, SECONDARY ELECTRIC, PRIMARY ELECTRICAL DUCTBANKS, LANDSCAPE IRRIGATION FACILITIES, AND GAS LINES. ANY UTILITY CONFLICTS THAT ARISE SHOULD BE COMMUNICATED TO THE OWNER IMMEDIATELY AND PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL CONTACT 1-800-DIG-TESS A MINIMUM OF 48 HOURS PRIOR TO START OF CONSTRUCTION, ANY DAMAGE TO EXISTING UTILITIES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND THE REPAIR SHALL BE AT CONTRACTOR'S SOLE EXPENSE WHETHER THE UTILITY IS SHOWN ON THESE PLANS OR NOT.

1. THE FINISHED FLOOR ELEVATIONS (FF) REPRESENT THE MINIMUM FINISHED FLOOR ELEVATIONS FOR EACH LOT. THE FINISHED FLOOR ELEVATION FOR EACH LOT, ACTUAL FINISHED FLOOR ELEVATIONS FOR EACH LOT AREA, SHALL BE DETERMINED BY THE BUILDER AND SHALL TAKE INTO CONSIDERATION THE FOLLOWING CONDITIONS:

A. THE FINISHED FLOOR ELEVATION SHALL BE BASED UPON THE LATERAL PLACEMENT. IT IS THE BUILDER'S SOLE RESPONSIBILITY TO DETERMINE ACTUAL FINISHED FLOOR ELEVATIONS FOR EACH LOT PLACEMENT AT THE START OF HOME FOUNDATION CONSTRUCTION. TAINING CONSIDERATION SITE DRAINAGE, STREET ACCESS AND SANITARY SEWER SERVICE.

2. THE MINIMUM SANITARY SEWER LATERAL GRADES ARE BASED UPON THE MINIMUM FINISHED FLOOR ELEVATIONS FOR THE LOTS LOCATED ON THE DOWNHILL SIDES OF THE PROPOSED ROADWAYS.

ROW PERMIT NOTE:

A BEAR COUNTY PERMIT MUST BE OBTAINED BEFORE WORKING IN BEAR COUNTY RIGHTS-OF-WAY.

CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT DESIGNER SHALL BE REQUIRED TO:

- IF ANY, SHALL REVIEW THESE PLANS AND ANY AVAILABLE GEOLOGICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITES WITHIN PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH PROTECTION SYSTEMS;
- PREPARE THE CONTRACT DOCUMENTS AND 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, OSHA STANDARDS FOR EACH EXCAVATION;
- THE CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE OF ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATIONS.

DEVELOPER'S NAME: LENNAR HOMES OF TEXAS
ADDRESS: 100 NE LOOP 410, STE 1155
CITY: SAN ANTONIO STATE: TEXAS ZIP: 78216
PHONE# (210) 403-6200 FAX# N/A
SAWS BLOCK MAP# 204524 TOTAL EDU'S 291 TOTAL ACREAGE 45.1
4,667.50 LT.-FT/AC
TOTAL LINEAR FOOTAGE OF PIPE: 1663.15'-FT/AC PLAT NO.22-118007
NUMBER OF LOTS 291 SAWS JOB NO. 23-1574

**PAPE-DAWSON
ENGINEERS**
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.8000
TEKAS ENGINEERING FIRM #1028650

STONE GARDEN - UNIT 2A
BEXAR COUNTY, TEXAS
OVERALL SANITARY SEWER PLAN

Attachments



Chalk Road pic 1

Figure 1



Chalk Road pic 2

Figure 2



ECS Southwest, LLP
 431 Isom Road, Suite 114
 San Antonio, TX 78216
T 210.528.1430
F 214.483.9684

LETTER OF TRANSMITTAL

September 15, 2025
 Lennar
 100 NE Loop 410 Suite 1155
 San Antonio, TX 78216
 ATTN: Mr. Nathan Nowell

RE: **Stone Garden - Unit 2A**
 ECS Job # **20:1910**
 Permits:
 Location: **14395 Old Corpus Christi Road**
Elmendorf, TX 78112

☒ Field Reports ☒ For your use ☒ As requested

CC: City of San Antonio - Development Services
 Department - Juan Ramirez

Lennar - Rogelio "Roy" Olivarez, Jr.
 V.K. Knowlton Construction - Sammy Ramos

ENCL: Field Report # 92 9/12/2025 Soil Density Testing

Adam James Heiman, P.E.
 Assistant Office Manager

Stephanie Marie Chavez
 CMT Project Professional I

Disclaimer

1. This report (and any attachments) shall not be reproduced except in full without prior written approval of ECS.
2. The information in this report relates only to the activities performed on the report date.
3. Where appropriate, this report includes statements as to compliance with applicable project drawings, and specifications for the activities, performed on this report date.
4. Incomplete or non-conforming work will be reported for future resolution.
5. The results of samples and/or specimens obtained or prepared for subsequent laboratory testing will be presented in separate reports/documents.

**ECS Southwest, LLP**

431 Isom Road, Suite 114

San Antonio, TX 78216

T 210.528.1430

F 214.483.9684

FIELD REPORT

Project **Stone Garden - Unit 2A**
 Location **Elmendorf, TX**
 Client **Lennar**
 Contractor **Lennar**

Project No. **20:1910**
 Report No. **92**
 Day & Date **Friday 9/12/2025**
 Weather **90 °/ Cloudy**
 On-Site Time **3.25**
 Lab Time **0.50**
 Travel Time* **0.50**
 Total **4.25**
 Re Obs Time **0.00**

Remarks **Soil Density Testing**

Trip Charges*	35.00	Tolls/Parking*		Mileage*		Time of Arrival	Departure
Chargeable Items	5000					8:00A	11:15A

* Travel time and mileage will be billed in accordance with the contract.

Summary of Services Performed (field test data, locations, elevations & depths are estimates) & Individuals Contacted.

The undersigned arrived on-site, as requested to observe the placement and compaction of Base Material.

Locations:

CHALK CAVE, First lift

AZZURRO STONE, First lift.

BASALT GARDEN, First lift

MUDSTONE PLACE, First lift

Please see the attached sketch.

Civil plan page C7.00 Dated 11/14/23 and the Geotechnical Report dated 4/25/22 were reviewed prior to testing.

Utilizing Nuclear Method ASTM D 6938, to check the compaction of Select Granular Fill at the areas and elevations tested, test results met the project requirements of 95% of the corrected maximum dry density and a moisture content of -2% to 3% from optimum, as determined in our laboratory using the TxDOT Test Method TEX-113-E.

Prior to departure, Sammy Ramos and Pablo with V.K Knowlton was informed of the results of the day's testing and observations.

By Paul Anthony White

1800



Field Compaction Summary, D6938

Project No: 20:1910

Project Name: Stone Garden - Unit 2A

Date: 9/12/2025

ECS Southwest, LLP

Client: Lennar

Contractor: Lennar

Technician: Paul Anthony White

Test Method D6938			
Nuclear Gauge No. 75821			
Make	Troxler	Density Std	2367
Model	3430P	Moisture Std	729
Ser. No.	78521		

Sample No.				Description			Proctor Method					Uncorrected Max. Density			Uncorrected Optimum Moisture Content
D4S-12				(GP-GC) POORLY GRADED GRAVEL WITH SILTY CLAY & SAND, Light Tan			TEX-113-E					137.7			4.5
Test No.	Lot No.	Test Mode	Probe Depth (in.)	Station / Location	Lift / Elev	Sample No.	% Oversize	Corrected Max. Density	Corrected Optimum Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Moisture Content (%)	Percent Comp. (%)	P / F	Comments
1		DT	4	CHALK CAVE, STA 10+50, T1A	LIFT 1	D4S-12	0.00	137.7	4.5	145.1	139.3	4.2	101.2	P	
2		DT	4	CHALK CAVE, STA 12+00, T2A	LIFT 1	D4S-12	0.00	137.7	4.5	138.3	132.4	4.4	96.2	P	
3		DT	4	CHALK CAVE, STA 13+50, T3A	LIFT 1	D4S-12	0.00	137.7	4.5	146.9	140.4	4.6	102.0	P	
4		DT	4	CHALK CAVE, STA 15+50, T4A	LIFT 1	D4S-12	0.00	137.7	4.5	152.0	145.2	4.6	105.4	P	High compaction approved by city inspector
5		DT	4	AZZURRO, STA 13+50, T1B	LIFT 1	D4S-12	0.00	137.7	4.5	146.5	140.5	4.3	102.0	P	
6		DT	4	AZZURRO, STA 12+0, T2B	LIFT 1	D4S-12	0.00	137.7	4.5	145.7	140.5	3.8	102.0	P	
7		DT	4	AZZURRO, STA 10+50, T3B	LIFT 1	D4S-12	0.00	137.7	4.5	146.3	139.9	4.6	101.6	P	
8		DT	4	AZZURRO, STA 9+0, T4B	LIFT 1	D4S-12	0.00	137.7	4.5	144.4	136.7	5.6	99.3	P	
9		DT	4	AZZURRO, STA 7+50, T5B	LIFT 1	D4S-12	0.00	137.7	4.5	146.8	139.7	5.1	101.5	P	
10		DT	4	AZZURRO, STA 6+0, T6B	LIFT 1	D4S-12	0.00	137.7	4.5	144.9	140.0	3.5	101.7	P	

**Field Compaction Summary, D6938**

Project No: 20:1910

Project Name: Stone Garden - Unit 2A

Date: 9/12/2025

ECS Southwest, LLP

Client: Lennar

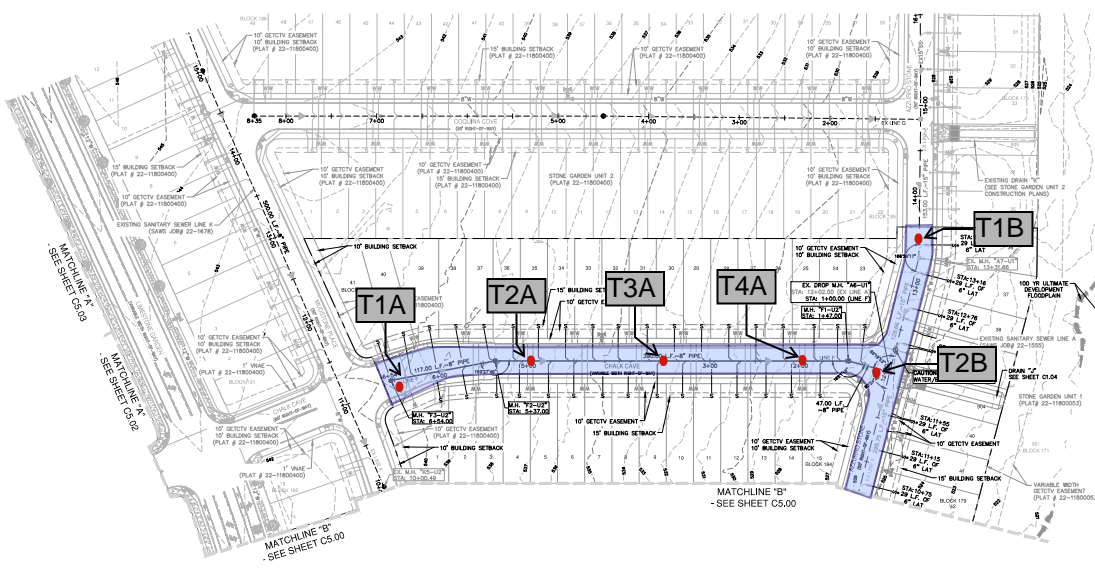
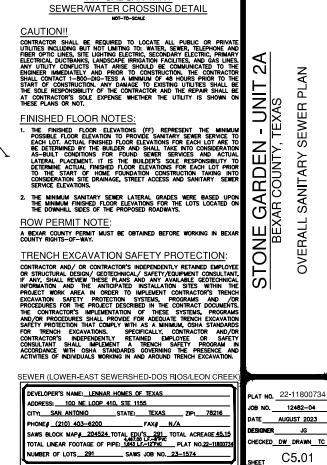
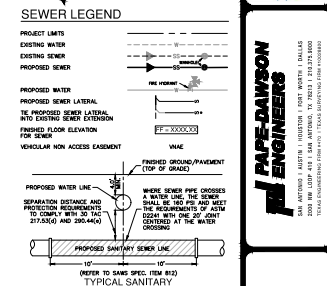
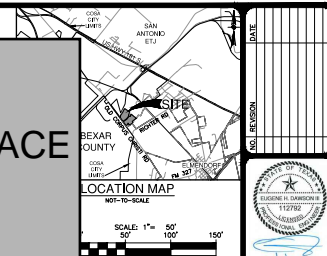
Contractor: Lennar

Technician: Paul Anthony White

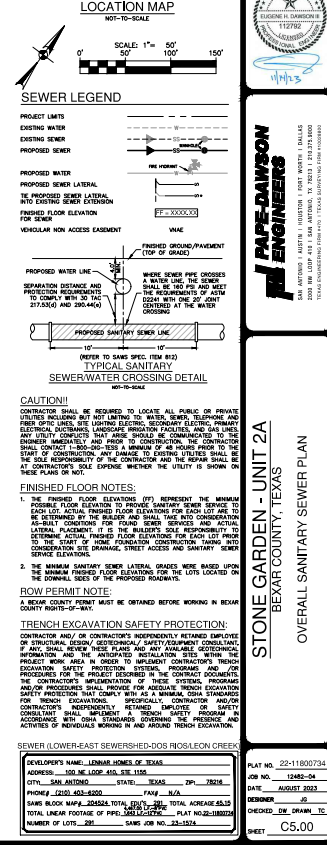
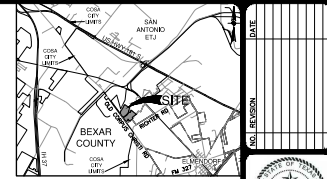
Test Method D6938			
Nuclear Gauge No. 75821			
Make	Troxler	Density Std	2367
Model	3430P	Moisture Std	729
Ser. No.	78521		

Test No.	Lot No.	Test Mode	Probe Depth (in.)	Station / Location	Lift / Elev	Sample No.	% Oversize	Corrected Max. Density	Corrected Optimum Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Moisture Content (%)	Percent Comp. (%)	P / F	Comments
11		DT	4	AZZURRO, STA 4+50, T7B	LIFT 1	D4S-12	0.00	137.7	4.5	142.3	136.1	4.5	98.8	P	
12		DT	4	AZZURRO, STA 3+50, T8B	LIFT 1	D4S-12	0.00	137.7	4.5	143.1	136.8	4.6	99.3	P	
13		DT	4	AZZURRO, STA 2+0, T9B	LIFT 1	D4S-12	0.00	137.7	4.5	137.0	131.8	3.9	95.7	P	
14		DT	4	BASALT, STA 3+28, T1C	LIFT 1	D4S-12	0.00	137.7	4.5	140.9	136.0	3.7	98.8	P	
15		DT	4	BASALT, STA 1+50, T2C	LIFT 1	D4S-12	0.00	137.7	4.5	145.1	139.4	4.1	101.2	P	
16		DT	4	MUDSTONE, STA 2+0, T1D	LIFT 1	D4S-12	0.00	137.7	4.5	139.3	134.2	3.8	97.5	P	
17		DT	4	MUDSTONE, STA 3+50, T2D	LIFT 1	D4S-12	0.00	137.7	4.5	146.0	138.4	5.5	100.5	P	
18		DT	4	MUDSTONE, STA 5+0, T3D	LIFT 1	D4S-12	0.00	137.7	4.5	141.8	136.1	4.2	98.8	P	
19		DT	4	MUDSTONE, STA 6+50, T4D	LIFT 1	D4S-12	0.00	137.7	4.5	137.6	132.7	3.7	96.4	P	
20		DT	4	MUDSTONE, STA 8+0, T5D	LIFT 1	D4S-12	0.00	137.7	4.5	145.2	137.8	5.4	100.1	P	
21		DT	4	MUDSTONE, STA 9+50, T6D	LIFT 1	D4S-12	0.00	137.7	4.5	142.9	136.4	4.8	99.1	P	

STONE GARDEN UNIT 2 [1910] BASE, 1ST LIFT, FDT CHALK CAVE, AZZURRO STONE, BASALT GARDEN, MUDSTONE PLACE DATE: 9/12/25 TECHNICIAN: PAUL WHITE



DEVELOPER'S NAME: LINDA H. JONES OF TEXAS ADDRESS: 100 N. LOOP W. STE. 1100 CITY: SAN ANTONIO, STATE: TEXAS, ZIP: 78201 PHONE: (210) 450-8000 FAX: N/A SAWS BLOCK MAP: 200501 TOTAL LOTS: 200 TOTAL ACRES: 5.15 TOTAL ACRE FOOTAGE OF PLOT: 2.00 ACRES PLAT NO.: 11800734 NUMBER OF LOTS: 200 SAWS JOB NO.: 22-1180734	PLAT NO.: 22-1180734 JOB NO.: 12485-04 DATE: AUGUST 2022 DESIGNER: JIM JAMES, JR. SHEET: C5.01
--	--



Attachments



Chalk cave

Figure 1



Azzurro Stone

Figure 2

Attachments



Azzurro Cont.

Figure 3



Azzurro Cont.

Figure 4

Attachments



Basalt Garden

Figure 5



Mudstone Place

Figure 6

Attachments



Mudstone Place Cont.

Figure 7



Mudstone Place Cont.

Figure 8

Attachments



Compaction Method

Figure 9



ECS Southwest, LLP
 431 Isom Road, Suite 114
 San Antonio, TX 78216
 T 210.528.1430
 F 214.483.9684

LETTER OF TRANSMITTAL

September 16, 2025
 Lennar
 100 NE Loop 410 Suite 1155
 San Antonio, TX 78216
 ATTN: Mr. Nathan Nowell

RE: **Stone Garden - Unit 2A**
 ECS Job # **20:1910**
 Permits:
 Location: **14395 Old Corpus Christi Road**
Elmendorf, TX 78112

☒ Field Reports ☒ For your use ☒ As requested

CC: City of San Antonio - Development Services
 Department - Juan Ramirez

Lennar - Rogelio "Roy" Olivarez, Jr.
 V.K. Knowlton Construction - Sammy Ramos

ENCL: Field Report # 93 9/15/2025 Soil Density Testing

Adam James Heiman, P.E.
 Assistant Office Manager

Stephanie Marie Chavez
 CMT Project Professional I

Disclaimer

1. This report (and any attachments) shall not be reproduced except in full without prior written approval of ECS.
2. The information in this report relates only to the activities performed on the report date.
3. Where appropriate, this report includes statements as to compliance with applicable project drawings, and specifications for the activities, performed on this report date.
4. Incomplete or non-conforming work will be reported for future resolution.
5. The results of samples and/or specimens obtained or prepared for subsequent laboratory testing will be presented in separate reports/documents.

**ECS Southwest, LLP**

431 Isom Road, Suite 114

San Antonio, TX 78216

T 210.528.1430

F 214.483.9684

FIELD REPORT

Project **Stone Garden - Unit 2A**
 Location **Elmendorf, TX**
 Client **Lennar**
 Contractor **Lennar**

Project No. **20:1910**
 Report No. **93**
 Day & Date **Monday 9/15/2025**
 Weather **78 °/ Clear**
 On-Site Time **1.25**
 Lab Time **1.00**
 Travel Time* **0.50**
 Total **2.75**
 Re Obs Time **0.00**

Remarks **Soil Density Testing**

Trip Charges*	35.00	Tolls/Parking*		Mileage*		Time of Arrival	Departure
Chargeable Items	5000					8:30A	9:45A

* Travel time and mileage will be billed in accordance with the contract.

Summary of Services Performed (field test data, locations, elevations & depths are estimates) & Individuals Contacted.

The undersigned arrived on-site, as requested to observe the placement and compaction of A2 Base material.

Location:
 Hornblende Trails
 Giallo Place
 Fiore Garden

Please see the attached sketch.

Civil plan page C2.16 dated 09/11/2023 and the Geotechnical Report dated 04/25/2022 were reviewed prior to testing.

Utilizing Nuclear Method ASTM D 6938, to check the compaction of A2 Base material at the areas and elevations tested, test results met the project requirements of 95% of the corrected maximum dry density and a moisture content of -2% to +3% from optimum, as determined in our laboratory using the Standard Test Method TEX-113-E.

Exceptions noted: None.

Prior to departure, Sammy Ramos with VK Knowlton was informed of the day's testing and observation results.

**Field Compaction Summary, D6938**

Project No: 20:1910

Project Name: Stone Garden - Unit 2A

Date: 9/15/2025

ECS Southwest, LLP

Client: Lennar

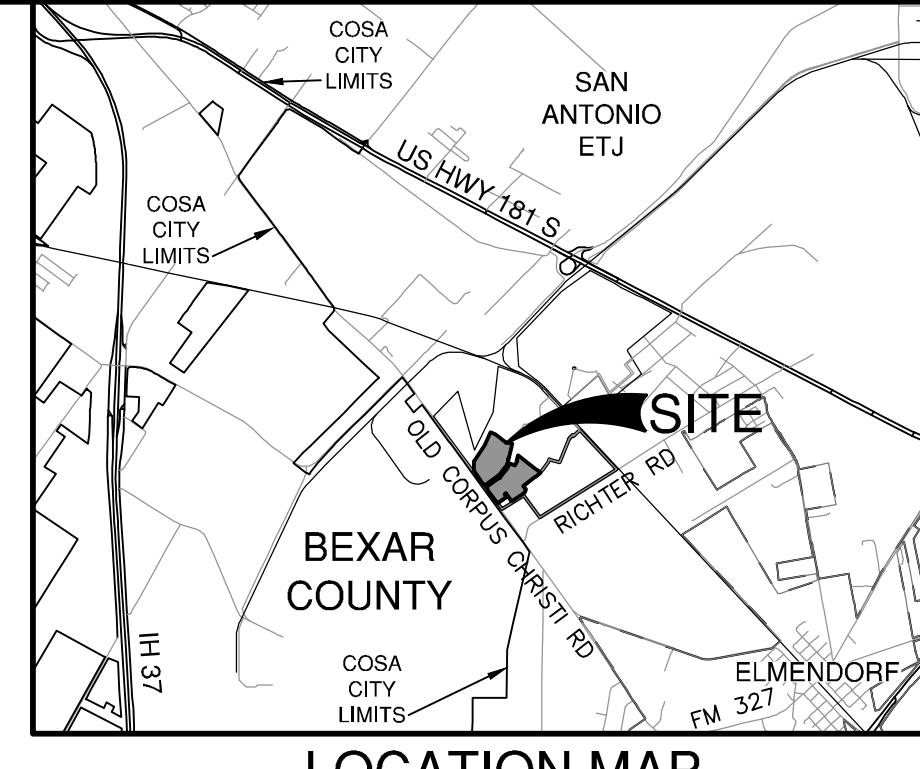
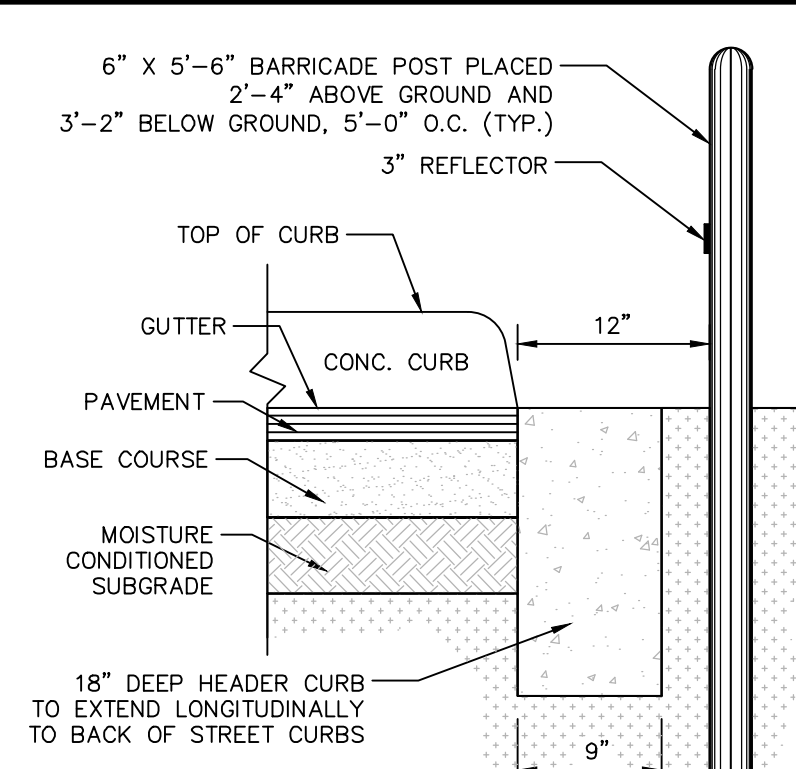
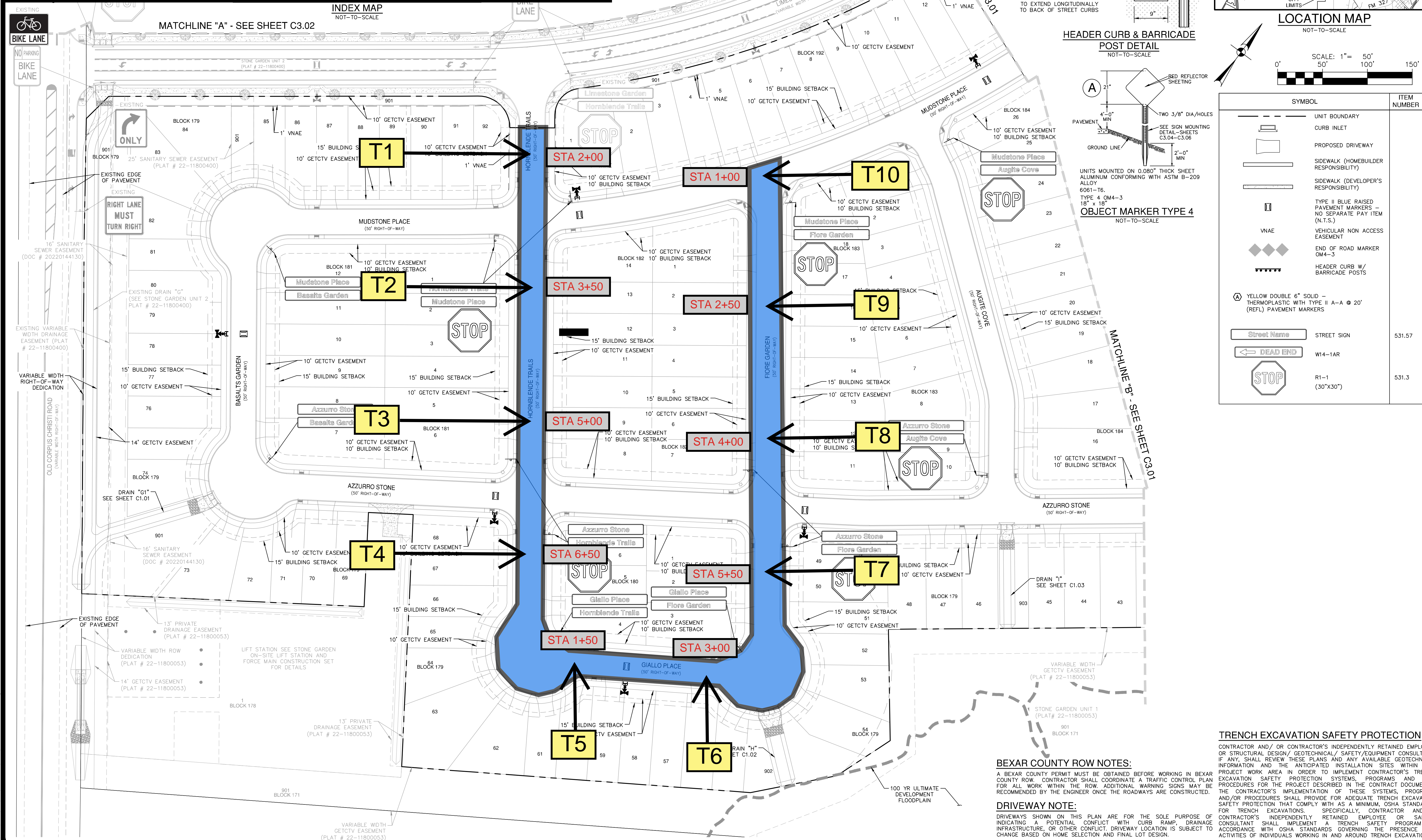
Contractor: Lennar

Technician: Victor M Muniz

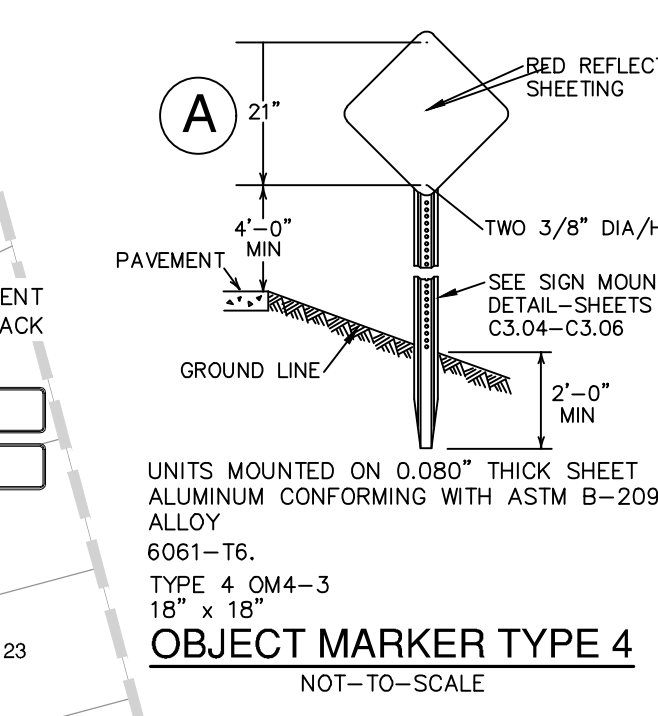
Test Method D6938			
Nuclear Gauge No. 26193			
Make	Troxler	Density Std	1497
Model	3430P	Moisture Std	664
Ser. No.	26193		

Sample No.				Description			Proctor Method					Uncorrected Max. Density			Uncorrected Optimum Moisture Content
D4S-12				(GP-GC) POORLY GRADED GRAVEL WOTH SILTY CLAY AND SAND, Light Tan			Proctor Method TEX 113E					137.7			4.5
Test No.	Lot No.	Test Mode	Probe Depth (in.)	Station / Location	Lift / Elev	Sample No.	% Oversize	Corrected Max. Density	Corrected Optimum Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Moisture Content (%)	Percent Comp. (%)	P / F	Comments
1		DT	6	Hornblende Trails, STA 2+00	1st	D4S-12	0.00	137.7	4.5	140.2	135.3	3.6	98.3	P	
2		DT	6	Hornblende Trails, STA 3+50	1st	D4S-12	0.00	137.7	4.5	142.5	137.7	3.5	100.0	P	
3		DT	6	Hornblende Trails, STA 5+00	1st	D4S-12	0.00	137.7	4.5	141.0	137.2	2.8	99.6	P	
4		DT	6	Hornblende Trails, STA 6+50	1st	D4S-12	0.00	137.7	4.5	136.6	132.0	3.5	95.9	P	
5		DT	6	Giallo Place, STA 1+50	1st	D4S-12	0.00	137.7	4.5	147.8	143.0	3.4	103.8	P	
6		DT	6	Giallo Place, STA 3+00	1st	D4S-12	0.00	137.7	4.5	148.4	144.4	2.8	104.9	P	
7		DT	6	Fiore Garden, STA 5+50	1st	D4S-12	0.00	137.7	4.5	142.2	138.6	2.6	100.7	P	
8		DT	6	Fiore Garden, STA 4+00	1st	D4S-12	0.00	137.7	4.5	146.4	141.3	3.6	102.6	P	
9		DT	6	Fiore Garden, STA 2+50	1st	D4S-12	0.00	137.7	4.5	134.6	130.8	2.9	95.0	P	
10		DT	6	Fiore Garden, STA 1+00	1st	D4S-12	0.00	137.7	4.5	144.7	139.7	3.5	101.5	P	

Stone Garden - Unit 2A
In - Place Density Testing Observation
09/15/2025
Technician: V. Muniz



HEADER CURB & BARRICADE
POST DETAIL
NOT-TO-SCALE



OBJECT MARKER TYPE 4
NOT-TO-SCALE

SYMBOL	UNIT BOUNDARY	ITEM NUMBER
	UNIT BOUNDARY	
	CURB INLET	
	PROPOSED DRIVEWAY	
	SIDEWALK (HOMEBUILDER RESPONSIBILITY)	
	SIDEWALK (DEVELOPER'S RESPONSIBILITY)	
	TYPE II BLUE RAISED PAVEMENT MARKERS - NO SEPARATE PAY ITEM (N.T.S.)	
	VEHICULAR NON ACCESS EASEMENT	
	END OF ROAD MARKER OM4-3	
	HEADER CURB W/ BARRICADE POSTS	
	STREET SIGN	531.57
	W14-1AR	
	R1-1 (30"x30")	531.3

BEXAR COUNTY ROW NOTES:
A BEXAR COUNTY PERMIT MUST BE OBTAINED BEFORE WORKING IN BEXAR COUNTY ROW. CONTRACTOR SHALL COORDINATE A TRAFFIC CONTROL PLAN FOR ALL WORK WITHIN THE ROW. ADDITIONAL WARNING SIGNS MAY BE RECOMMENDED BY THE ENGINEER ONCE THE ROADWAYS ARE CONSTRUCTED.

DRIVEWAY NOTE:
DRIVEWAYS SHOWN ON THIS PLAN ARE FOR THE SOLE PURPOSE OF INDICATING A POTENTIAL CONFLICT WITH CURB RAMP, DRAINAGE INFRASTRUCTURE, OR OTHER CONFLICT. DRIVEWAY LOCATION IS SUBJECT TO CHANGE BASED ON HOME SELECTION AND FINAL LOT DESIGN.

TRENCH EXCAVATION SAFETY PROTECTION:
CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/ GEOTECHNICAL/ SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND ANY AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITES 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, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.

DATE
NO. REVISION

12/11/2023

**PAPE-DAWSON
ENGINEERS**

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 HW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #170 | TEXAS SURVEYING FIRM #10028600

STONE GARDEN - UNIT 2A
BEXAR COUNTY, TEXAS
OVERALL SIGNAGE PLAN

PLAT NO. 22-11800734
JOB NO. 12482-04
DATE AUGUST 2023
DESIGNER JG
CHECKED DW DRAWN TC
SHEET C3.00

Attachments



Equipment used for compaction of soil

Figure 1



FDT area observed at Hornblende Trails

Figure 2

Attachments



FDT area observed at Giallo Place

Figure 3



FDT area observed at Fiore Garden

Figure 4



ECS Southwest, LLP
 431 Isom Road, Suite 114
 San Antonio, TX 78216
 T 210.528.1430
 F 214.483.9684

LETTER OF TRANSMITTAL

September 23, 2025
 Lennar
 100 NE Loop 410 Suite 1155
 San Antonio, TX 78216
 ATTN: Mr. Nathan Nowell

RE: **Stone Garden - Unit 2A**
 ECS Job # **20:1910**
 Permits:
 Location: **14395 Old Corpus Christi Road**
Elmendorf, TX 78112

☒ Field Reports ☒ For your use ☒ As requested

CC: City of San Antonio - Development Services
 Department - Juan Ramirez

Lennar - Rogelio "Roy" Olivarez, Jr.
 V.K. Knowlton Construction - Sammy Ramos

ENCL: Field Report # 94 9/22/2025 Soil Density Testing

Adam James Heiman, P.E.
 Assistant Office Manager

Stephanie Marie Chavez
 CMT Project Professional I

Disclaimer

1. This report (and any attachments) shall not be reproduced except in full without prior written approval of ECS.
2. The information in this report relates only to the activities performed on the report date.
3. Where appropriate, this report includes statements as to compliance with applicable project drawings, and specifications for the activities, performed on this report date.
4. Incomplete or non-conforming work will be reported for future resolution.
5. The results of samples and/or specimens obtained or prepared for subsequent laboratory testing will be presented in separate reports/documents.

**ECS Southwest, LLP**

431 Isom Road, Suite 114

San Antonio, TX 78216

T 210.528.1430

F 214.483.9684

FIELD REPORT

Project **Stone Garden - Unit 2A**
 Location **Elmendorf, TX**
 Client **Lennar**
 Contractor **Lennar**

Project No. **20:1910**
 Report No. **94**
 Day & Date **Monday 9/22/2025**
 Weather **95 % Partly Cloudy**
 On-Site Time **3.50**
 Lab Time **0.25**
 Travel Time* **0.75**
 Total **4.50**
 Re Obs Time **0.00**

Remarks **Soil Density Testing**

Trip Charges*	35.00	Tolls/Parking*		Mileage*		Time of Arrival	Departure
Chargeable Items	5000					1:30P	5:00P

* Travel time and mileage will be billed in accordance with the contract.

Summary of Services Performed (field test data, locations, elevations & depths are estimates) & Individuals Contacted.

The undersigned arrived on-site, as requested to observe the placement and compaction of BASE MATERIAL.

Location:
 CHALK CAVE
 BASALT GARDEN

Please see the attached sketch.

Civil plan page C7.00 Dated 11/14/23 and the Geotechnical Report dated 4/25/22 were reviewed prior to testing.

Utilizing Nuclear Method ASTM D 6938, to check the compaction of base material at the areas and elevations tested, test results met the project requirements of 95% of the corrected maximum dry density and a moisture content of -2% to 3% from optimum, as determined in our laboratory using the TxDOT Test Method TEX-113-E.

Prior to departure, Sammy Ramos with V.K Knowlton was informed of the results of the day's testing and observations.



Field Compaction Summary, D6938

Project No: 20:1910

Project Name: Stone Garden - Unit 2A

Date: 9/22/2025

ECS Southwest, LLP

Client: Lennar

Contractor: Lennar

Technician: Paul Anthony White

Test Method D6938			
Nuclear Gauge No. 26193			
Make	Troxler	Density Std	1474
Model	3430P	Moisture Std	658
Ser. No.	26193		

Sample No.				Description			Proctor Method					Uncorrected Max. Density			Uncorrected Optimum Moisture Content
D4S-12				(GP-GC) POORLY GRADED GRAVEL WITH SILTY CLAY & SAND, Light Tan			TEX-113-E					137.7			4.5
Test No.	Lot No.	Test Mode	Probe Depth (in.)	Station / Location	Lift / Elev	Sample No.	% Oversize	Corrected Max. Density	Corrected Optimum Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Moisture Content (%)	Percent Comp. (%)	P / F	Comments
1		DT	6	CHALK CAVE, STA 1+50, T1A	FINAL LIFT	D4S-12	0.00	137.7	4.5	150.3	144.5	4.1	104.9	P	
2		DT	6	CHALK CAVE, STA 3+00, T2A	FINAL LIFT	D4S-12	0.00	137.7	4.5	145.1	140.7	3.1	102.2	P	
3		DT	6	CHALK CAVE, STA 4+50, T3A	FINAL LIFT	D4S-12	0.00	137.7	4.5	146.4	141.0	3.9	102.4	P	
4		DT	6	CHALK CAVE, STA 6+00, T4A	FINAL LIFT	D4S-12	0.00	137.7	4.5	149.6	145.0	3.2	105.3	P	
5		DT	6	CHALK CAVE, STA 6+75, T5A	FINAL LIFT	D4S-12	0.00	137.7	4.5	137.4	133.5	2.9	96.9	P	
6		DT	6	GRANITE GARDEN, STA 12+50, T1B	FINAL LIFT	D4S-12	0.00	137.7	4.5	140.0	135.6	3.3	98.5	P	
7		DT	6	GRANITE GARDEN, STA 11+00, T2B	FINAL LIFT	D4S-12	0.00	137.7	4.5	147.3	142.3	3.5	103.3	P	
8		DT	6	GRANITE GARDEN, STA 9+50, T3B	FINAL LIFT	D4S-12	0.00	137.7	4.5	150.8	144.0	4.7	104.6	P	
9		DT	6	GRANITE GARDEN, STA 8+00, T4B	FINAL LIFT	D4S-12	0.00	137.7	4.5	143.6	137.2	4.7	99.6	P	
10		DT	6	GRANITE GARDEN, STA 6+50, T5B	FINAL LIFT	D4S-12	0.00	137.7	4.5	139.5	134.9	3.5	98.0	P	

**Field Compaction Summary, D6938**

Project No: 20:1910

Project Name: Stone Garden - Unit 2A

Date: 9/22/2025

ECS Southwest, LLP

Client: Lennar

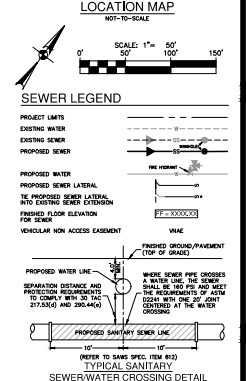
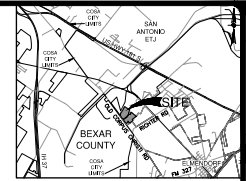
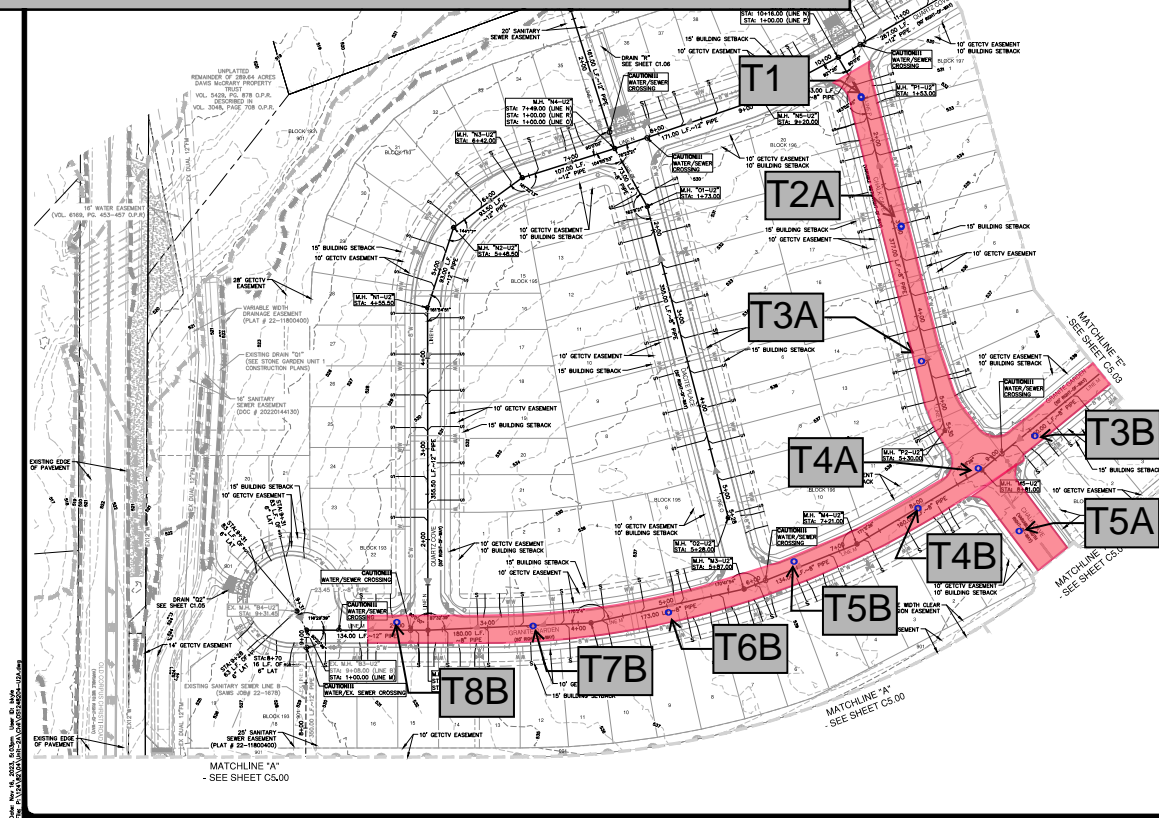
Contractor: Lennar

Technician: Paul Anthony White

Test Method D6938			
Nuclear Gauge No. 26193			
Make	Troxler	Density Std	1474
Model	3430P	Moisture Std	658
Ser. No.	26193		

Test No.	Lot No.	Test Mode	Probe Depth (in.)	Station / Location	Lift / Elev	Sample No.	% Oversize	Corrected Max. Density	Corrected Optimum Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Moisture Content (%)	Percent Comp. (%)	P / F	Comments
11		DT	6	GRANITE GARDEN, STA 5+00, T6B	FINAL LIFT	D4S-12	0.00	137.7	4.5	138.3	134.6	2.8	97.7	P	
12		DT	6	GRANITE GARDEN, STA 3+50, T7B	FINAL LIFT	D4S-12	0.00	137.7	4.5	144.5	140.6	2.8	102.1	P	
13		DT	6	GRANITE GARDEN, STA 2+00, T8B	FINAL LIFT	D4S-12	0.00	137.7	4.5	140.4	135.3	3.8	98.3	P	

STONE GARDEN UNIT 2A [1910]
BASE MATERIAL FDT, FINAL LIFT
CHALK CAVE/ GRANITE GARDEN
DATE: 9/22/25
TECHNICIAN: PAUL WHITE



CAUTION!!
CONTRACTOR SHALL BE REQUIRED TO LOCATE ALL PUBLIC OR PRIVATE UTILITIES INCLUDING BUT NOT LIMITED TO: WATER, SEWER, TELEPHONE AND CABLE PRIOR TO ANY EXCAVATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES. ANY DAMAGE TO UTILITIES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL BE REQUIRED TO OBTAIN A BUREAU COUNTY PERMIT PRIOR TO ANY EXCAVATION. THE CONTRACTOR SHALL BE REQUIRED TO OBTAIN A BUREAU COUNTY PERMIT PRIOR TO ANY EXCAVATION. THE CONTRACTOR SHALL BE REQUIRED TO OBTAIN A BUREAU COUNTY PERMIT PRIOR TO ANY EXCAVATION.

FINISHED FLOOR NOTES:
1. THE FINISHED FLOOR ELEVATIONS (FF) REPRESENT THE MINIMUM FINISHED FLOOR ELEVATION TO PROVIDE SANITARY SEWER SERVICE TO EACH LOT. ACTUAL FINISHED FLOOR ELEVATIONS FOR EACH LOT ARE TO BE DETERMINED BY THE OWNER AND SHALL BE SHOWN ON THE SUBMITTAL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES. ANY DAMAGE TO UTILITIES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL BE REQUIRED TO OBTAIN A BUREAU COUNTY PERMIT PRIOR TO ANY EXCAVATION. THE CONTRACTOR SHALL BE REQUIRED TO OBTAIN A BUREAU COUNTY PERMIT PRIOR TO ANY EXCAVATION. THE CONTRACTOR SHALL BE REQUIRED TO OBTAIN A BUREAU COUNTY PERMIT PRIOR TO ANY EXCAVATION.

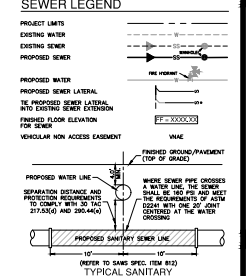
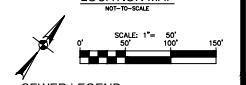
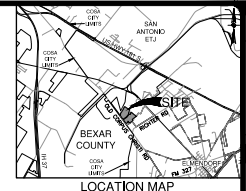
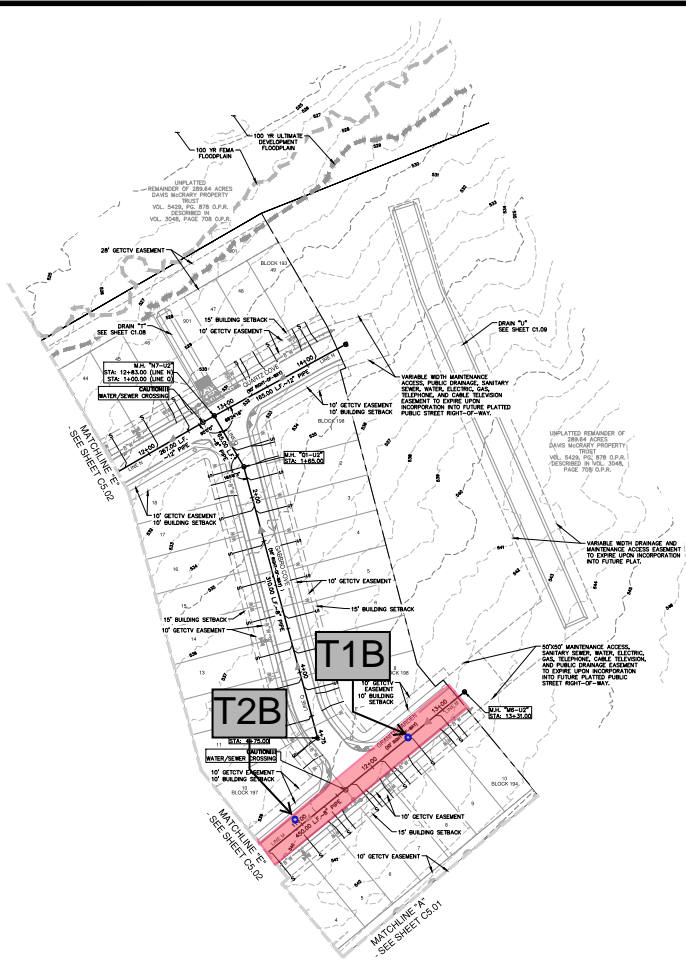
TRENCH EXCAVATION SAFETY PROTECTION:
CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES. ANY DAMAGE TO UTILITIES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL BE REQUIRED TO OBTAIN A BUREAU COUNTY PERMIT PRIOR TO ANY EXCAVATION. THE CONTRACTOR SHALL BE REQUIRED TO OBTAIN A BUREAU COUNTY PERMIT PRIOR TO ANY EXCAVATION. THE CONTRACTOR SHALL BE REQUIRED TO OBTAIN A BUREAU COUNTY PERMIT PRIOR TO ANY EXCAVATION.

PROJECT NAME: STONE GARDEN UNIT 2A	DATE: 09/22/25
PROJECT ADDRESS: 10000 N. 100TH ST, DALLAS, TX 75243	DESIGNER: J. DAWSON
PROJECT NO: 22-11800734	CHECKED: J. DAWSON
DATE: 09/22/25	SCALE: 1" = 60'

PAPE DAWSON ENGINEERS
10000 N. 100TH ST, DALLAS, TX 75243
214.343.1111
WWW.PAPE-DAWSON.COM

STONE GARDEN - UNIT 2A
BEXAR COUNTY, TEXAS
OVERALL SANITARY SEWER PLAN

PLAT NO. 22-11800734
JOB NO. 12485-04
DATE: AUGUST 2023
DESIGNER: J. DAWSON
CHECKED: J. DAWSON
SCALE: 1" = 60'



CAUTION!!
CONTRACTOR SHALL BE REQUIRED TO LOCATE ALL PUBLIC OR PRIVATE UTILITIES INCLUDING BUT NOT LIMITED TO: WATER, SEWER, TELEPHONE AND CABLE TV LINES, AND EXISTING ELECTRICAL, SANITARY, AND GAS LINES. ANY UTILITY LOCATED THAT ARE NOT SHOWN ON THE RECORD DRAWINGS SHALL BE LOCATED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES.

FINISHED FLOOR NOTES:
1. THE FINISHED FLOOR ELEVATIONS (FF) REPRESENT THE MINIMUM FINISHED FLOOR ELEVATION TO PROVIDE SANITARY SEWER SERVICE TO EACH LOT. ACTUAL FINISHED FLOOR ELEVATIONS FOR EACH LOT ARE TO BE DETERMINED BY THE OWNER AND SHALL TAKE INTO CONSIDERATION ALL EXISTING AND PROPOSED UTILITIES, AND THE ACTUAL FINISHED FLOOR ELEVATION SHALL BE SHOWN ON THE RECORD DRAWINGS.
2. THE MINIMUM SANITARY SEWER LATERAL GRADES WERE BASED UPON THE MINIMUM FINISHED FLOOR ELEVATIONS FOR THE LOTS LOCATED ON THE DOWNHILL SIDES OF THE PROPOSED ROADWAY.
3. A BEAR COUNTY PERMIT MUST BE OBTAINED BEFORE WORKING IN BEAR COUNTY RIGHTS-OF-WAY.

TRENCH EXCAVATION SAFETY PROTECTION:
CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EXPERTS OR STRUCTURAL DESIGN, GEOTECHNICAL, SAFETY/ACCIDENT CONSULTANT, OR ANY OTHER PROFESSIONAL ENGINEER OR ANY AVAILABLE RECORD DRAWINGS AND THE ANTICIPATED INSTALLATION SITE WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEM, PROGRAMS, AND JOB PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLY WITH AS A MINIMUM OSHA STANDARDS FOR TRENCH EXCAVATIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES.

SEWER (LOWER-EAST SEWER)-DDB ROSALBA CREEK	
DEVELOPER'S NAME: LINDA JONES OF TEXAS	PLAT NO. 22-11800734
ADDRESS: 102 W. LOOP 410, S.W. 1158	JOB NO. 12485-04
CITY: SAN ANTONIO, TEXAS	DATE: AUGUST 2022
PHONE: (210) 450-8200	FAX: N/A
SANS BLOCK MAP: 2022-04 TOTAL ACRES: 5.10 TOTAL ACRES: 5.10	
TOTAL ACRES: 5.10 TOTAL ACRES: 5.10 TOTAL ACRES: 5.10	
NUMBER OF LOTS: 202 SANS JOB NO. 22-11800734	

PAPE DAWSON ENGINEERS
SAN ANTONIO, TEXAS
2022-04-01
2022-04-01
2022-04-01

STONE GARDEN - UNIT 2A
BEAR COUNTY, TEXAS
OVERALL SANITARY SEWER PLAN

PLAT NO. 22-11800734
JOB NO. 12485-04
DATE: AUGUST 2022
DESIGNER: JIM DAWSON, P.E.
CHECKED: JIM DAWSON, P.E.
SHEET: C5.03

Attachments



Start of testing, Chalk Cave

Figure 1



End of Testing, Chalk Cave

Figure 2

Attachments



Start of Testing, Granite Garden

Figure 3



Granite Garden Con.

Figure 4

Attachments



End of Testing, Granite Garden

Figure 5



ECS Southwest, LLP
 431 Isom Road, Suite 114
 San Antonio, TX 78216
 T 210.528.1430
 F 214.483.9684

LETTER OF TRANSMITTAL

September 23, 2025
 Lennar
 100 NE Loop 410 Suite 1155
 San Antonio, TX 78216
 ATTN: Mr. Nathan Nowell

RE: **Stone Garden - Unit 2A**
 ECS Job # **20:1910**
 Permits:
 Location: **14395 Old Corpus Christi Road**
Elmendorf, TX 78112

☒ Field Reports ☒ For your use ☒ As requested

CC: City of San Antonio - Development Services
 Department - Juan Ramirez

Lennar - Rogelio "Roy" Olivarez, Jr.
 V.K. Knowlton Construction - Sammy Ramos

ENCL: Field Report # 95 9/23/2025 Soil Density Testing

Adam James Heiman, P.E.
 Assistant Office Manager

Stephanie Marie Chavez
 CMT Project Professional I

Disclaimer

1. This report (and any attachments) shall not be reproduced except in full without prior written approval of ECS.
2. The information in this report relates only to the activities performed on the report date.
3. Where appropriate, this report includes statements as to compliance with applicable project drawings, and specifications for the activities, performed on this report date.
4. Incomplete or non-conforming work will be reported for future resolution.
5. The results of samples and/or specimens obtained or prepared for subsequent laboratory testing will be presented in separate reports/documents.

**ECS Southwest, LLP**

431 Isom Road, Suite 114

San Antonio, TX 78216

T 210.528.1430

F 214.483.9684

FIELD REPORT

Project **Stone Garden - Unit 2A**
 Location **Elmendorf, TX**
 Client **Lennar**
 Contractor **Lennar**

Project No. **20:1910**
 Report No. **95**
 Day & Date **Tuesday 9/23/2025**
 Weather **92 °/ Sunny**
 On-Site Time **1.25**
 Lab Time **0.00**
 Travel Time* **0.25**
 Total **1.50**
 Re Obs Time **0.00**

Remarks **Soil Density Testing**

Trip Charges*	35.00	Tolls/Parking*		Mileage*		Time of Arrival		Departure
Chargeable Items	5000					1:15P		2:30P

* Travel time and mileage will be billed in accordance with the contract.

Summary of Services Performed (field test data, locations, elevations & depths are estimates) & Individuals Contacted.

The undersigned arrived on-site, as requested to observe the placement and compaction of A2 base material.

Location:
 Quartz Cove
 Granite Garden
 Dacite Place
 Gabbro Cove

Please see the attached sketch.

Civil plan page C7.00 dated 11/14/23 and Geotechnical Report dated 04/25/22 were reviewed prior to testing.

Utilizing the Nuclear Method ASTM D6938, to check the compaction of A2 base material at the areas and elevations tested, test results met the project requirements of 95% of the corrected maximum dry density and a moisture content of -2% to 3% from optimum, as determined in our laboratory using the State Proctor Method TEX-113-E.

Prior to departure, Sammy Ramos with V.K Knowlton was informed of the results of the day's testing and observations.



Field Compaction Summary, D6938

Project No: 20:1910

Project Name: Stone Garden - Unit 2A

Date: 9/23/2025

ECS Southwest, LLP

Client: Lennar

Contractor: Lennar

Technician: Sergio A Trevino

Test Method D6938			
Nuclear Gauge No. 5519			
Make	Instrotek	Density Std	2897
Model	3500	Moisture Std	683
Ser. No.	5519		

Sample No.				Description			Proctor Method					Uncorrected Max. Density			Uncorrected Optimum Moisture Content
D4S-12				(GP-GC) POORLY GRADED GRAVEL WITH SILTY CLAY & SAND, Light Tan			TEX-113-E					137.7			4.5
Test No.	Lot No.	Test Mode	Probe Depth (in.)	Station / Location	Lift / Elev	Sample No.	% Oversize	Corrected Max. Density	Corrected Optimum Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Moisture Content (%)	Percent Comp. (%)	P / F	Comments
1		DT	6	Quartz Cove, STA 14+00	Final	D4S-12	0.00	137.7	4.5	137.0	132.5	3.4	96.2	P	
2		DT	6	Quartz Cove, STA 12+50	Final	D4S-12	0.00	137.7	4.5	141.3	136.8	3.3	99.3	P	
3		DT	6	Quartz Cove, STA 111+00	Final	D4S-12	0.00	137.7	4.5	138.7	134.0	3.5	97.3	P	
4		DT	6	Quartz Cove, STA 19+50	Final	D4S-12	0.00	137.7	4.5	139.2	135.0	3.1	98.0	P	
5		DT	6	Quartz Cove, STA 18+00	Final	D4S-12	0.00	137.7	4.5	140.8	135.1	4.2	98.1	P	
6		DT	6	Quartz Cove, STA 16+50	Final	D4S-12	0.00	137.7	4.5	143.5	138.1	3.9	100.3	P	
7		DT	6	Quartz Cove, STA 15+00	Final	D4S-12	0.00	137.7	4.5	143.5	138.2	3.9	100.4	P	
8		DT	6	Quartz Cove, STA 13+50	Final	D4S-12	0.00	137.7	4.5	146.9	142.1	3.4	103.2	P	
9		DT	6	Quartz Cove, STA 12+00	Final	D4S-12	0.00	137.7	4.5	144.4	139.2	3.7	101.1	P	
10		DT	6	Granite Garden, STA 1+00	Final	D4S-12	0.00	137.7	4.5	148.3	142.0	4.4	103.1	P	

**Field Compaction Summary, D6938**

Project No: 20:1910

Project Name: Stone Garden - Unit 2A

Date: 9/23/2025

ECS Southwest, LLP

Client: Lennar

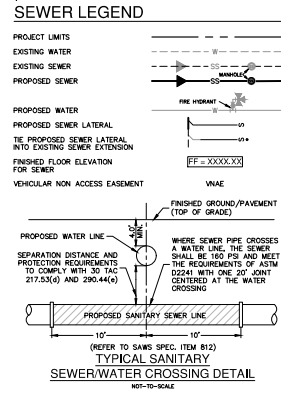
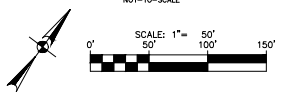
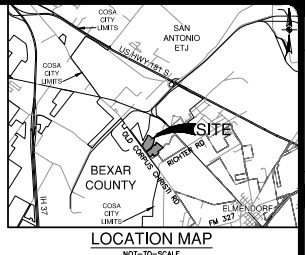
Contractor: Lennar

Technician: Sergio A Trevino

Test Method D6938			
Nuclear Gauge No. 5519			
Make	Instrotek	Density Std	2897
Model	3500	Moisture Std	683
Ser. No.	5519		

Test No.	Lot No.	Test Mode	Probe Depth (in.)	Station / Location	Lift / Elev	Sample No.	% Oversize	Corrected Max. Density	Corrected Optimum Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Moisture Content (%)	Percent Comp. (%)	P / F	Comments
11		DT	6	Dacite Place, STA 4+00	Final	D4S-12	0.00	137.7	4.5	144.6	137.7	5.0	100.0	P	
12		DT	6	Dacite Place, STA 2+50	Final	D4S-12	0.00	137.7	4.5	150.0	144.6	3.7	105.0	P	
13		DT	6	Gabbro Cove, STA 1+50	Final	D4S-12	0.00	137.7	4.5	149.1	143.1	4.2	103.9	P	
14		DT	6	Gabbro Cove, STA 5+00	Final	D4S-12	0.00	137.7	4.5	145.6	137.8	5.7	100.1	P	
15		DT	6	Gabbro Cove, STA 3+50	Final	D4S-12	0.00	137.7	4.5	146.1	139.0	5.0	100.9	P	
16		DT	6	Gabbro Cove, STA 1+50	Final	D4S-12	0.00	137.7	4.5	150.1	142.9	5.0	103.8	P	

1910 Stone Garden- Unit 2A
FDT's on Quartz Cove, Dacite
Place, & Grabo Cove St
09/23/25
Sergio Trevino



CAUTION!!

CONTRACTOR SHALL BE REQUIRED TO LOCATE ALL PUBLIC OR PRIVATE UTILITIES INCLUDING BUT NOT LIMITING TO WATER, SEWER, TELEPHONE, AND FIBER OPTIC LINES, SITE LIGHTING ELECTRIC, SECONDARY ELECTRIC, PRIMARY ELECTRIC, DUCT BANKS, LANDSCAPE IRRIGATION FACILITIES, AND GAS LINES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION OF ALL UTILITIES. THE ENGINEER IMMEDIATELY AND PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL CONTACT 1-800-620-TESS A MINIMUM OF 48 HOURS PRIOR TO THE START OF CONSTRUCTION, ANY DAMAGE TO EXISTING UTILITIES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND THE REPAIR SHALL BE AT CONTRACTOR'S SOLE EXPENSE WHETHER THE UTILITY IS SHOWN ON THESE PLANS OR NOT.

FINISHED FLOOR NOTES:

1. THE FINISHED FLOOR ELEVATIONS (FF) REPRESENT THE MINIMUM POSSIBLE FLOOR ELEVATION TO PROVIDE SANITARY SEWER SERVICE TO THE LOT. FINISHED FLOOR ELEVATIONS FOR EACH LOT SHALL BE DETERMINED BY THE BUILDER AND SHALL TAKE INTO CONSIDERATION THE LOT'S LOCATION, LOT AREA, LOT SHAPE, LOT GRADIENT, AND LATERAL PLACEMENT. IT IS THE BUILDER'S SOLE RESPONSIBILITY TO PROVIDE FINISHED FLOOR ELEVATIONS FOR EACH LOT PRIOR TO THE START OF HOME FOUNDATION CONSTRUCTION TAKING INTO CONSIDERATION SITE DRAINAGE, STREET ACCESS AND SANITARY SEWER ELEVATIONS.

2. THE MINIMUM SANITARY SEWER LATERAL GRADES WERE BASED UPON THE MINIMUM FINISHED FLOOR ELEVATIONS FOR THE LOTS LOCATED ON THE SIDES OF PROPOSED ROADWAYS.

ROW PERMIT NOTE:

A BEXAR COUNTY PERMIT MUST BE OBTAINED BEFORE WORKING IN BEXAR COUNTY RIGHTS-OF-WAY.

TRENCH EXCAVATION SAFETY PROTECTION: CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN / GEO/TECHNICAL / SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND ANY AVAILABLE GEO/TECHNICAL INFORMATION AND THE RELATED INSTALLATION SYSTEMS WITH THE CONTRACTOR AND THE AGENCY ORDERING CONTRACTOR SHALL REVIEW THE TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND /OR PROCEDURES FOR THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR'S SAFETY SUPERVISOR SHALL REVIEW THE TRENCH EXCAVATION /OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLY WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATION. CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH THE TRENCH EXCAVATION SAFETY STANDARDS AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.

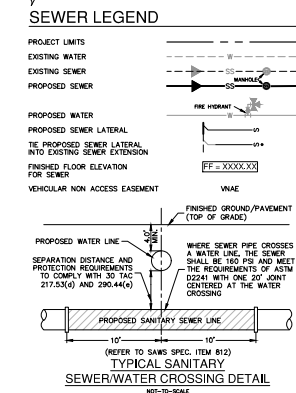
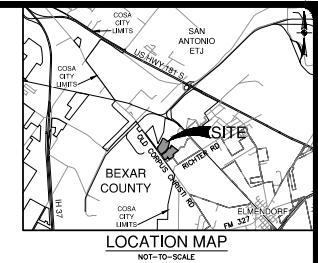
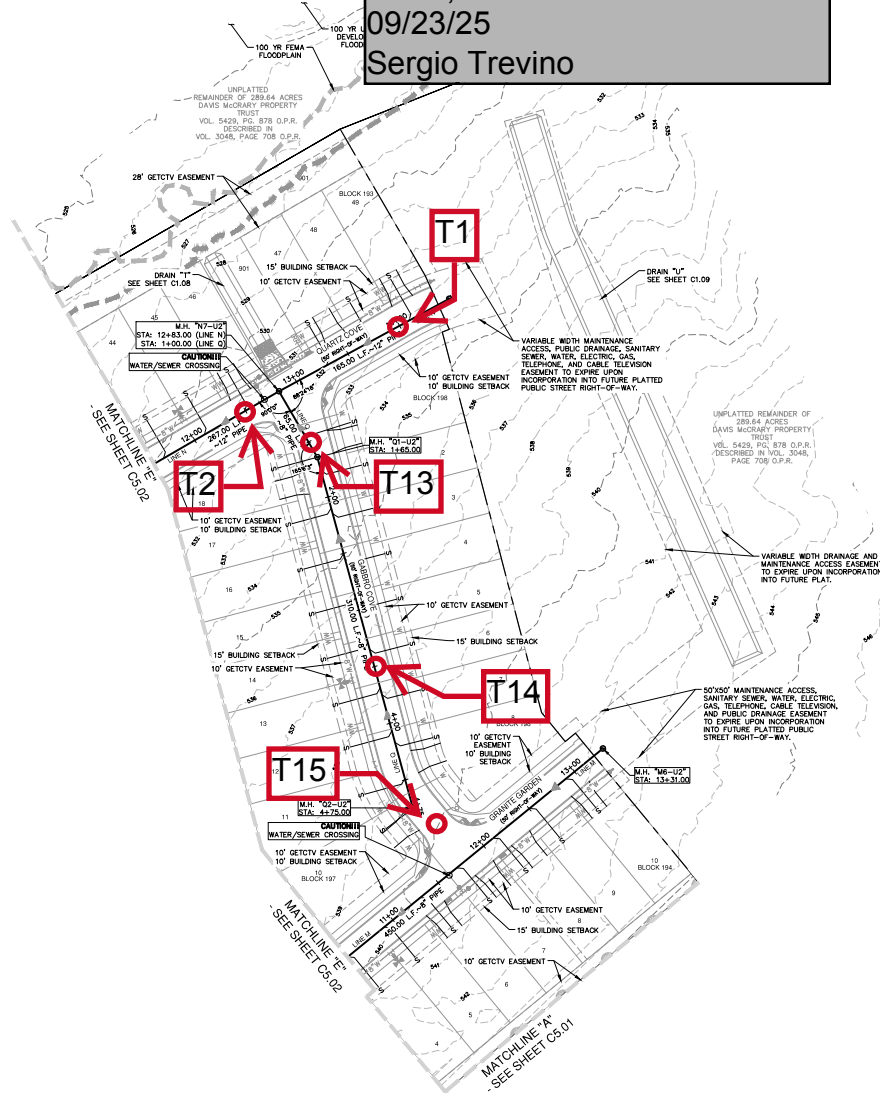
SEWER (LOWER-EAST SEWERSHED-DOS RIOS/LEON CREEK)

DEVELOPER'S NAME: LENNAR HOMES OF TEXAS	
ADDRESS: 100 NE LOOP 410, STE 1155	
CITY: SAN ANTONIO	STATE: TEXAS ZIP: 78216
PHONE: (210) 403-6200	FAX: N/A
SAWS BLOCK MAP#: 204524 TOTAL EDU'S: 291 TOTAL ACRES: 55.15	
TOTAL LINEAR FOOTAGE OF PIPE: 4,677.00 LF - 4" PIPE	
PLAT NO. 22-11800734	
NUMBER OF LOTS: 291	SAWS JOB NO. 23-1574

**PAPE-DAWSON
ENGINEERS**

STONE GARDEN - UNIT 2A
BEXAR COUNTY, TEXAS
OVERALL SANITARY SEWER PLAN

1910 Stone Garden- Unit 2A
FDT's on Quartz Cove, Dacite
Place, & Grabo Cove St
09/23/25
Sergio Trevino



CAUTION!!
CONTRACTOR SHALL BE REQUIRED TO LOCATE ALL PUBLIC OR PRIVATE UTILITIES INCLUDING BUT NOT LIMITING TO: WATER, SEWER, TELEPHONE AND FIBER OPTIC LINES, SITE LIGHTING, SECONDARY ELECTRIC, PRIMARY ELECTRICAL, DUCTWORKS, LANDSCAPE IRRIGATION FACILITIES, AND GAS LINES. ANY UTILITY CONFLICTS THAT ARISE SHOULD BE COMMUNICATED TO THE ENGINEER IMMEDIATELY AND PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL CONTACT 1-800-010-TESS A MINIMUM OF 48 HOURS PRIOR TO THE START OF CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND THE REPAIR SHALL BE AT CONTRACTOR'S SOLE EXPENSE WHETHER THE UTILITY IS SHOWN ON THESE PLANS OR NOT.

FINISHED FLOOR NOTES:
1. THE FINISHED FLOOR ELEVATIONS (FF) REPRESENT THE MINIMUM POSSIBLE FLOOR ELEVATION TO PROVIDE SANITARY SEWER SERVICE TO EACH LOT. ACTUAL FINISHED FLOOR ELEVATIONS FOR EACH LOT ARE TO BE DETERMINED BY THE BUILDER AND SHALL TAKE INTO CONSIDERATION AS-BUILT CONDITIONS FOR FOUND SEWER SERVICES AND ACTUAL LATERAL PLACEMENT. IT IS THE BUILDER'S SOLE RESPONSIBILITY TO DETERMINE ACTUAL FINISHED FLOOR ELEVATIONS FOR EACH LOT PRIOR TO THE START OF HOME FOUNDATION CONSTRUCTION TAKING INTO CONSIDERATION SITE DRAINAGE, STREET ACCESS AND SANITARY SEWER SERVICE ELEVATIONS.
2. THE MINIMUM SANITARY SEWER LATERAL GRADES WERE BASED UPON THE MINIMUM FINISHED FLOOR ELEVATIONS FOR THE LOTS LOCATED ON THE CORNELL SIDES OF THE PROPOSED ROADWAYS.

ROW PERMIT NOTE:
A BEXAR COUNTY PERMIT MUST BE OBTAINED BEFORE WORKING IN BEXAR COUNTY RIGHTS-OF-WAY.

TRENCH EXCAVATION SAFETY PROTECTION:
CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/GEOTECHNICAL/SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND ANY AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITES WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS, AND JOB 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, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.

SEWER (LOWER-EAST SEWERSHED-DOS RIOS/LEON CREEK)

DEVELOPER'S NAME: LENDAR HOMES OF TEXAS	
ADDRESS: 100 NE LOOP 410, STE 1150	
CITY: SAN ANTONIO	STATE: TEXAS ZIP: 78216
PHONE: (210) 403-6200	FAX: N/A
SAWS BLOCK MAP# 224824 TOTAL AREA: 1.00 ACRES TOTAL AREA: 43.15 ACRES TOTAL AREA: 43.15 ACRES	
TOTAL LINEAR FOOTAGE OF PIPE: 1,141.00' PLAT NO: 22-11800734	
NUMBER OF LOTS: 291	SAWS JOB NO: 23-1574

DATE	
NO. REVISION	



PAPE-DAWSON ENGINEERS
SAN ANTONIO • AUSTIN • HOUSTON • FORT WORTH • DALLAS
2000 HWY LOOP 410 • SAN ANTONIO, TX 78203 • 210.275.8000
TELEPHONE: 210.275.8000 • FAX: 210.275.8000

STONE GARDEN - UNIT 2A
BEXAR COUNTY, TEXAS
OVERALL SANITARY SEWER PLAN

PLAT NO: 22-11800734
JOB NO: 12482-04
DATE: AUGUST 2023
DESIGNER: JD
CHECKED: DW, DRANN, TC

SHEET C5.03

Attachments



Area tested

Figure 1



Area tested

Figure 2

Attachments



Area tested

Figure 3



ECS Southwest, LLP
 431 Isom Road, Suite 114
 San Antonio, TX 78216
 T 210.528.1430
 F 214.483.9684

LETTER OF TRANSMITTAL

September 30, 2025
 Lennar
 100 NE Loop 410 Suite 1155
 San Antonio, TX 78216
 ATTN: Mr. Nathan Nowell

RE: **Stone Garden - Unit 2A**
 ECS Job # **20:1910**
 Permits:
 Location: **14395 Old Corpus Christi Road**
Elmendorf, TX 78112

☒ Field Reports ☒ For your use ☒ As requested

CC: City of San Antonio - Development Services
 Department - Juan Ramirez

Lennar - Rogelio "Roy" Olivarez, Jr.
 V.K. Knowlton Construction - Sammy Ramos

ENCL: Field Report # 96 9/30/2025 Soil Density Testing/ Pick up

Adam James Heiman, P.E.
 Assistant Office Manager

Stephanie Marie Chavez
 CMT Project Professional I

Disclaimer

1. This report (and any attachments) shall not be reproduced except in full without prior written approval of ECS.
2. The information in this report relates only to the activities performed on the report date.
3. Where appropriate, this report includes statements as to compliance with applicable project drawings, and specifications for the activities, performed on this report date.
4. Incomplete or non-conforming work will be reported for future resolution.
5. The results of samples and/or specimens obtained or prepared for subsequent laboratory testing will be presented in separate reports/documents.

**ECS Southwest, LLP**

431 Isom Road, Suite 114

San Antonio, TX 78216

T 210.528.1430

F 214.483.9684

FIELD REPORT

Project **Stone Garden - Unit 2A**
 Location **Elmendorf, TX**
 Client **Lennar**
 Contractor **Lennar**

Project No. **20:1910**
 Report No. **96**
 Day & Date **Tuesday 9/30/2025**
 Weather **78 °/ Sunny**
 On-Site Time **1.25**
 Lab Time **0.75**
 Travel Time* **0.50**
 Total **2.50**
 Re Obs Time **0.00**

Remarks **Soil Density Testing/ Pick up**

Trip Charges*	35.00	Tolls/Parking*		Mileage*		Time of Arrival	Departure
Chargeable Items	5000					8:15A	9:30A

* Travel time and mileage will be billed in accordance with the contract.

Summary of Services Performed (field test data, locations, elevations & depths are estimates) & Individuals Contacted.

The undersigned arrived on-site, as requested, to observe the compaction of the Base Material.

Location:

Chalk Cave from Station 9+75 to 11+50

Please see the attached sketch.

Geotechnical report dated 4/25/2022 was reviewed prior to testing.

Utilizing the Nuclear Method ASTM D6938, to check the compaction of base material at the areas and elevations tested, test results met the project requirements of 95% of the corrected maximum dry density and moisture content of -2% to +3% of optimum, as determined in our laboratory using the Modified Proctor Method TEX-113-E.

Noted exceptions:

City of San Antonio Inspector, Santiago Vidales, was notified of the dry density results exceeding 105% and gave ECS permission to proceed with testing observations for the road base at Chalk Cove.

SOIL SAMPLE PICKUP:

While on site, as requested, the undersigned obtained 1 sample of A2 base material for testing in our laboratory. The sample was obtained from the base material stock pile imported from Vulcan Materials Company plant 4157-111 1604 Base Limestone.

Location:

Near the intersections of Mudstone Place and Hornblende Trails

Prior to departure, Sammy Ramos with V.K. Knowlton was informed of the results of the day's

observations.

**Field Compaction Summary, D6938**

Project No: 20:1910

Project Name: Stone Garden - Unit 2A

Date: 9/30/2025

ECS Southwest, LLP

Client: Lennar

Contractor: Lennar

Technician: Tyler Batungbacal

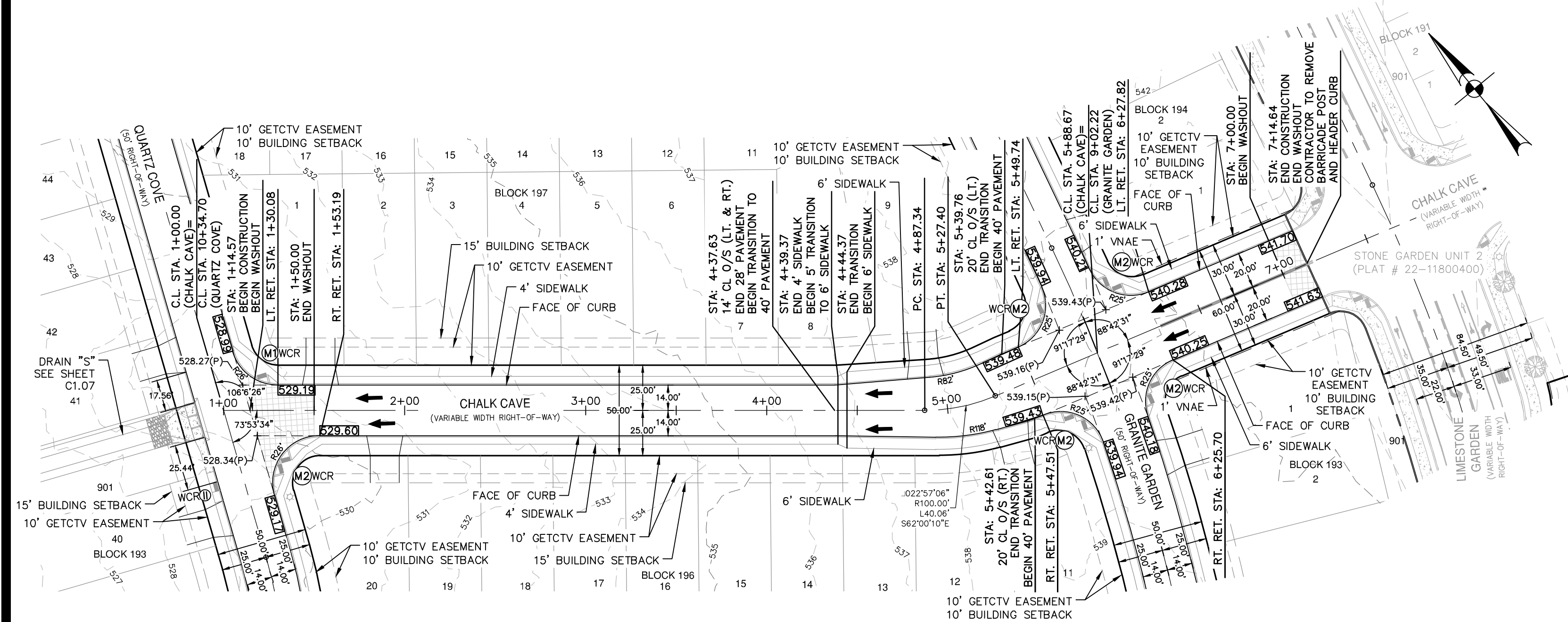
Test Method D6938			
Nuclear Gauge No. 78650			
Make	Troxler	Density Std	2533
Model	3430P	Moisture Std	676
Ser. No.	78650		

Sample No.				Description			Proctor Method					Uncorrected Max. Density		Uncorrected Optimum Moisture Content	
D4S-12				(GP-GC) POORLY GRADED GRAVEL WITH SILTY CLAY & SAND, Light Tan			TEX-113-E					137.7		4.5	
Test No.	Lot No.	Test Mode	Probe Depth (in.)	Station / Location	Lift / Elev	Sample No.	% Oversize	Corrected Max. Density	Corrected Optimum Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Moisture Content (%)	Percent Comp. (%)	P / F	Comments
1		DT	6	Chalk Cave, STA 10+40	Lift 2	D4S-12	0.00	137.7	4.5	153.5	146.9	4.5	106.7	P	City of San Antonio Inspector, Santiago Vidales approved test
2		DT	6	Chalk Cave, STA 10+95	Lift 2	D4S-12	0.00	137.7	4.5	153.9	147.9	4.1	107.4	P	City of San Antonio Inspector, Santiago Vidales approved test
3		DT	6	Chalk Cave, STA 11+50	Lift 2	D4S-12	0.00	137.7	4.5	156.5	148.1	5.7	107.6	P	City of San Antonio Inspector, Santiago Vidales approved test

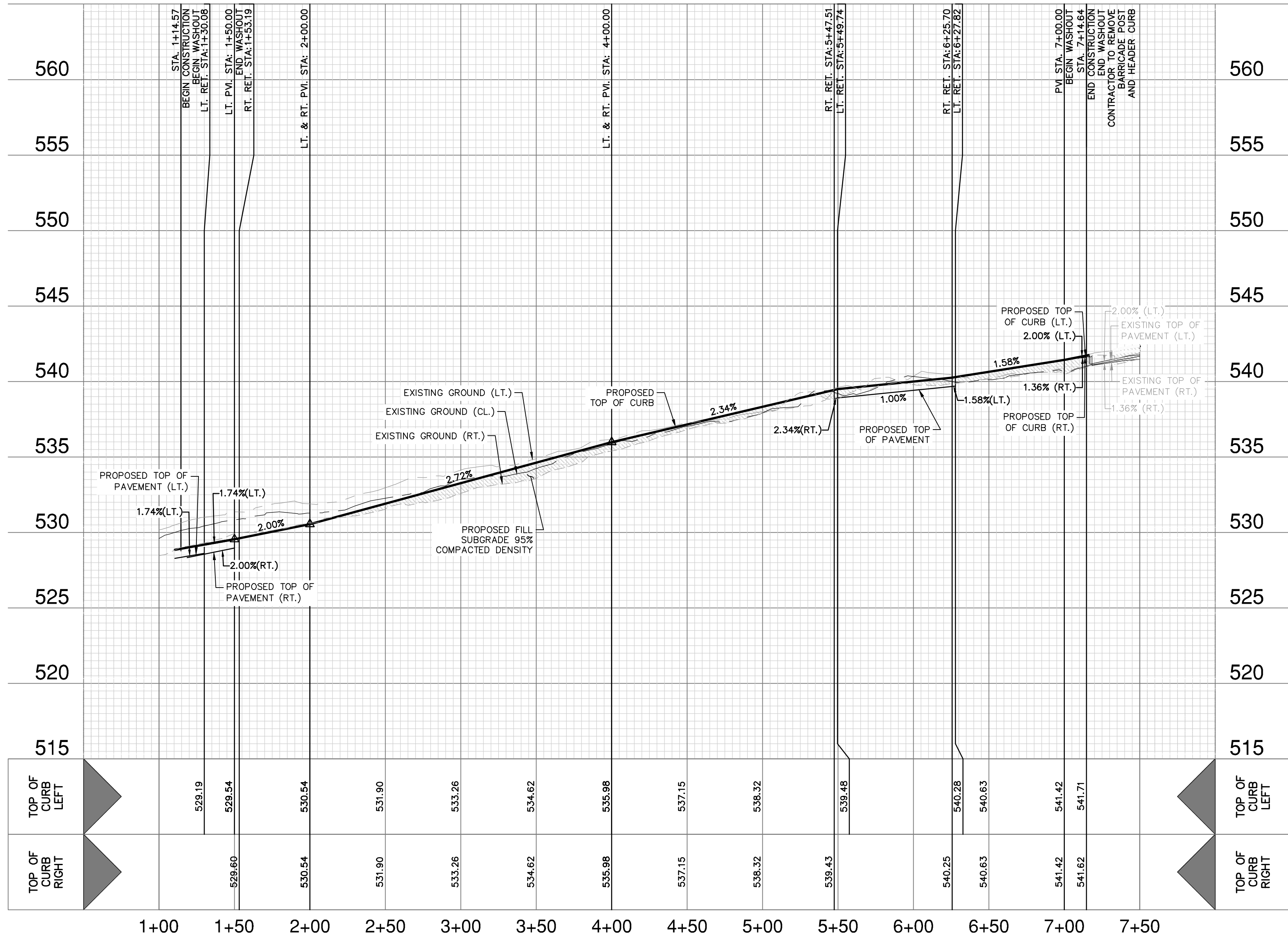
Dates: Nov. 17, 2023, 10:24am User: ID: b44s
File: P:\24\82\02A\Unit-2A\GWA\ST248204-12A.CHALK CAVE.dwg

THIS DOCUMENT HAS BEEN PRODUCED FROM MATERIAL THAT WAS STORED AND/OR TRANSMITTED ELECTRONICALLY AND MAY HAVE BEEN INADVERTENTLY ALTERED. RELY ONLY ON FINAL HARDCOPY MATERIALS BEARING THE CONSULTANT'S ORIGINAL SIGNATURE AND SEAL. AERIAL IMAGERY PROVIDED BY GOOGLE/© UNLESS OTHERWISE NOTED. IMAGERY © 2016/CAPCO/Digital Globe, Texas Orthomography Program, US2A Form Service Agency.

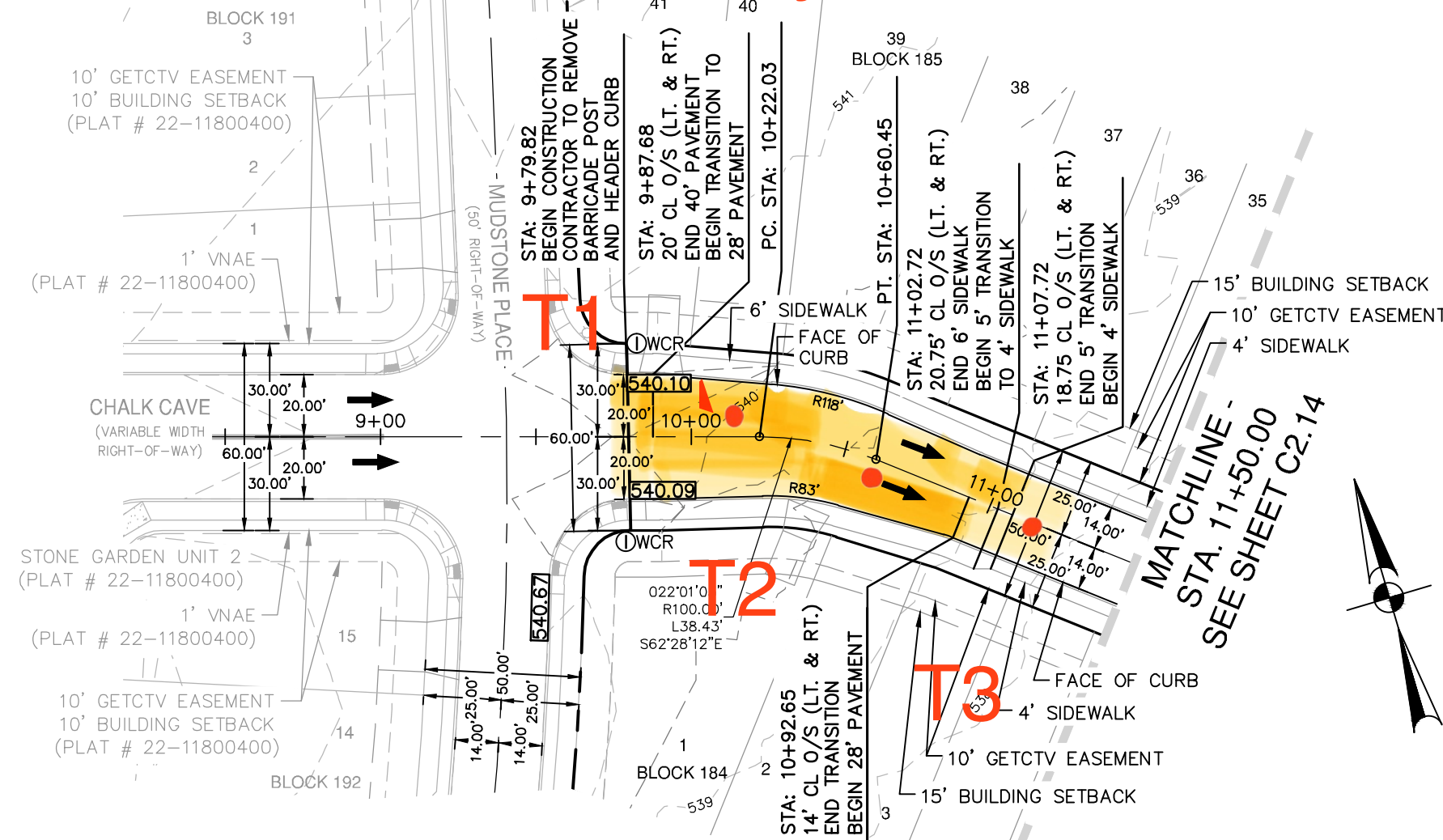
Transmittal Page 5/9



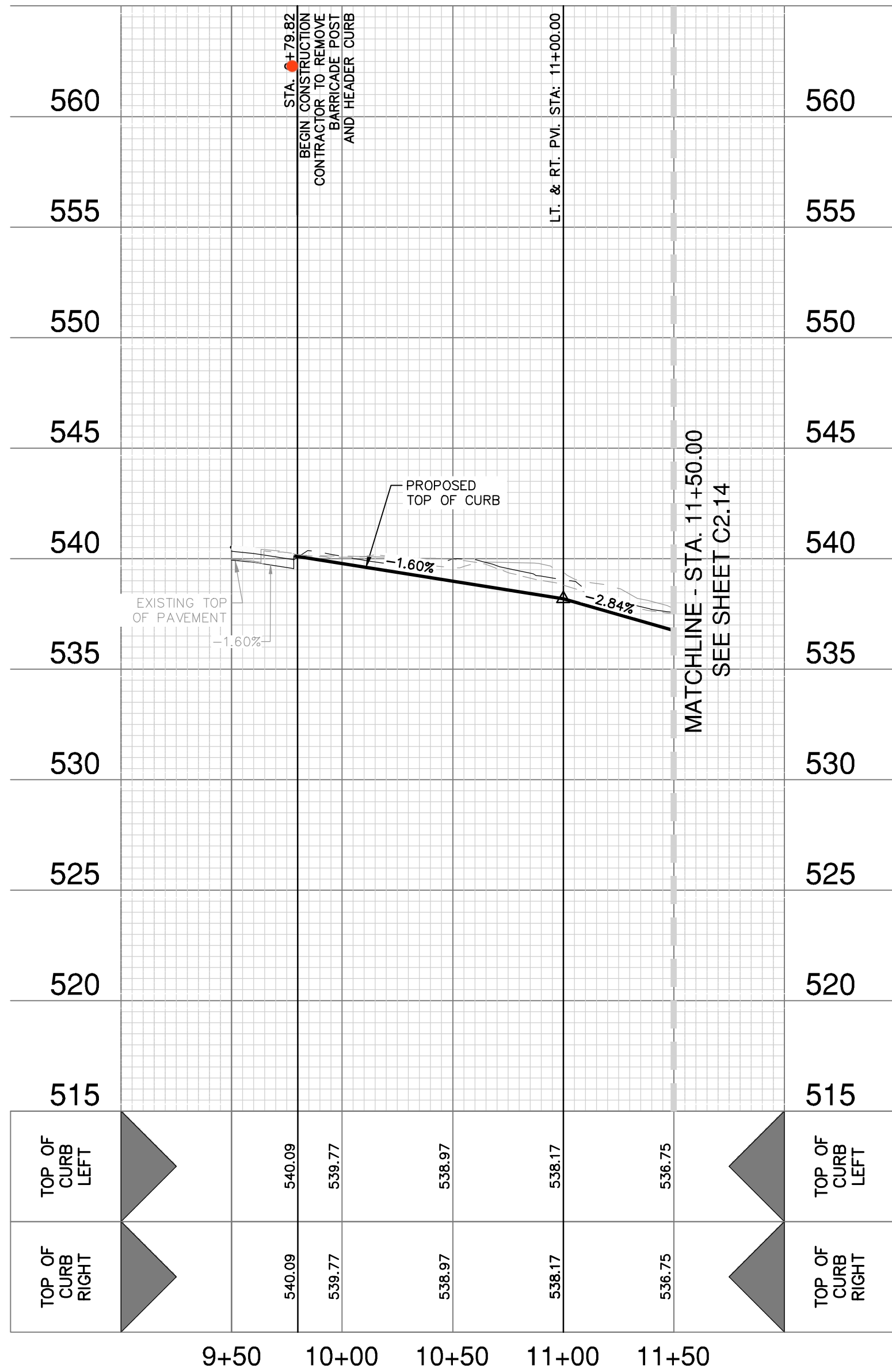
CHALK CAVE
STA. 1+00.00 TO 7+14.64



Stone Garder 9/30/2025 Field Density Tes Technician: Tyler Batl



CHALK CAVE
STA. 9+79.82 TO 11+50.00



STREET LEGEND

PROJECT LIMITS	---
MAINTAIN GUTTER	---
EXISTING CONTOUR	---
WHEELCHAIR RAMP	---
CENTERLINE	CL
RADIUS POINT	RP
POINT OF CURVATURE	PC
POINT OF TANGENCY	PT
RETURN	RET
DRAINAGE FLOW ARROW	→
TOP OF CURB SPOT ELEVATION	857.30
PAVEMENT ELEVATION	857.00(P) ×
WASHOUT CROWN SECTION	---
SIDEWALK (HOMEOWNER'S RESPONSIBILITY)	---
SIDEWALK (DEVELOPER'S RESPONSIBILITY)	---
DRIVEWAY	---
CLEAR VISION EASEMENT	CVE

STREET NOTES:

- A BEXAR COUNTY ROW PERMIT MUST BE OBTAINED BEFORE WORKING IN BEXAR COUNTY ROW. CONTRACTOR SHALL COORDINATE A TRAFFIC CONTROL PLAN FOR ALL WORK WITHIN THE ROW. ADDITIONAL WARNING SIGNS MAY BE RECOMMENDED BY THE ENGINEER ONCE THE ROADWAYS ARE CONSTRUCTED.
- CONTRACTOR SHALL MATCH EXISTING PAVEMENT AT TIE-IN. IF EXISTING PAVEMENT ELEVATION DIFFERS SIGNIFICANTLY, CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO CONTINUING WORK.
- SIDEWALKS SHALL BE CONSTRUCTED 3'-FT FROM THE BACK OF CURB FOR ALL LOCATIONS WHERE THE SIDEWALK IS SHOWN OFFSET. REFER TO STREET DETAIL SHEET FOR SIDEWALK AND RAMP DETAILS.
- NO PERMANENT STRUCTURES HIGHER THAN 3 FEET, AND LOWER THAN 8 FEET ABOVE THE PAVEMENT, INCLUDING STRUCTURES, WALLS, FENCES, AND VEGETATION, SHALL BE CONSTRUCTED OR ALLOWED WITHIN THE CLEAR VISION EASEMENT. CONTRACTOR SHALL GRADE AREAS WITHIN CLEAR VISION EASEMENTS SUCH THAT THE ELEVATION WITHIN THE CLEAR VISION EASEMENT IS NOT HIGHER THAN 3 FEET ABOVE THE ADJACENT TOP OF PAVEMENT.
- DRIVEWAYS SHOWN ON THIS PLAN ARE FOR THE SOLE PURPOSE OF INDICATING A POTENTIAL CONFLICT WITH CURB RAMP, DRAINAGE INFRASTRUCTURE, OR OTHER CONFLICT. DRIVEWAY LOCATION IS SUBJECT TO CHANGE BASED ON HOME SELECTION AND FINAL LOT DESIGN.
- CHANGES IN THE SIDEWALK LOCATION FOR A MAXIMUM LINEAR DISTANCE OF TWO HUNDRED (200) FEET ARE PERMITTED TO BE APPROVED BY THE FIELD INSPECTOR WITHOUT AMENDING THE STREET PLAN OR UTILITY LAYOUT PER UDC SECTION 35-506 (d)(6).
- THE CONSTRUCTION OF SIDEWALKS ADJACENT TO ALL 900 SERIES LOTS WILL BE THE RESPONSIBILITY OF THE DEVELOPER AS SHOWN ON THE OVERALL SIGNAGE PLAN. REFER TO SHEET C3.00 FOR LOCATIONS OF SIDEWALK CONSTRUCTION.
- FILL MATERIAL SHOULD BE NATIVE ON-SITE MATERIAL, FREE OF DELETERIOUS MATERIAL WITH A MINIMUM CBR VALUE OF 4.0 AND A PI MAXIMUM OF 20. THE GRAVEL SIZE SHOULD NOT EXCEED 3 INCHES IN DIAMETER. LIME APPLICATION RATE SHOULD BE RE-EVALUATED FOR THE FILL MATERIAL. THE MATERIAL SHOULD BE PLACED AS PER APPLICABLE CITY OR COUNTY GUIDELINES.

PAPE-DAWSON
ENGINEERS

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 HW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #1008860

STONE GARDEN - UNIT 2A
BEXAR COUNTY, TEXAS

**CHALK CAVE PLAN & PROFILE (STA 1+00.00 TO 7+14.64
& 9+79.82 TO 11+50.00)**

PLAT NO. 22-11800734
JOB NO. 12482-04
DATE AUGUST 2023
DESIGNER JG
CHECKED DW, DRAWN TC
SHEET C2.13

Attachments



Approx. test site

Figure 1



STA 10+50

Figure 2

Attachments



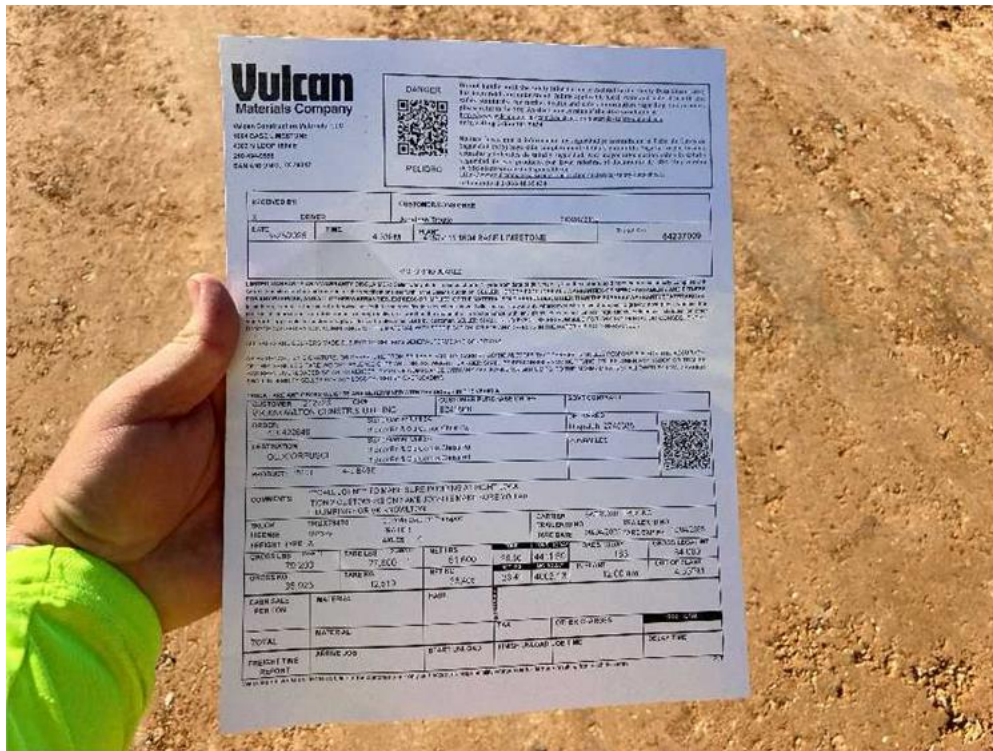
Test site street: chalk cave

Figure 3



Water truck

Figure 4



Attachments



A2 Base stockpile

Figure 7



ECS Southwest, LLP
 431 Isom Road, Suite 114
 San Antonio, TX 78216
 T 210.528.1430
 F 214.483.9684

LETTER OF TRANSMITTAL

October 08, 2025
 Lennar
 100 NE Loop 410 Suite 1155
 San Antonio, TX 78216
 ATTN: Mr. Nathan Nowell

RE: **Stone Garden - Unit 2A**
 ECS Job # **20:1910**
 Permits:
 Location: **14395 Old Corpus Christi Road**
Elmendorf, TX 78112

☒ Field Reports ☒ For your use ☒ As requested

CC: City of San Antonio - Development Services
 Department - Juan Ramirez

Lennar - Rogelio "Roy" Olivarez, Jr.
 V.K. Knowlton Construction - Sammy Ramos

ENCL: Field Report # 97 10/6/2025 Soil Densities (Pavement Area Flex. Base)

Adam James Heiman, P.E.
 Assistant Office Manager

Gerald W. Bolgren
 CMT Senior Project Professional

Disclaimer

1. This report (and any attachments) shall not be reproduced except in full without prior written approval of ECS.
2. The information in this report relates only to the activities performed on the report date.
3. Where appropriate, this report includes statements as to compliance with applicable project drawings, and specifications for the activities, performed on this report date.
4. Incomplete or non-conforming work will be reported for future resolution.
5. The results of samples and/or specimens obtained or prepared for subsequent laboratory testing will be presented in separate reports/documents.

**ECS Southwest, LLP**

431 Isom Road, Suite 114

San Antonio, TX 78216

T 210.528.1430

F 214.483.9684

FIELD REPORT

Project **Stone Garden - Unit 2A**
 Location **Elmendorf, TX**
 Client **Lennar**
 Contractor **Lennar**

Project No. **20:1910**
 Report No. **97**
 Day & Date **Monday 10/6/2025**
 Weather **90 °/ Fair to P. Cloudy**
 On-Site Time **1.75**
 Lab Time **0.50**
 Travel Time* **0.50**
 Total **2.75**
 Re Obs Time **0.00**

Remarks **Soil Densities (Pavement Area Flex. Base)**

Trip Charges*	35.00	Tolls/Parking*		Mileage*		Time of Arrival	Departure
Chargeable Items	5000					9:00A	10:45A

* Travel time and mileage will be billed in accordance with the contract.

Summary of Services Performed (field test data, locations, elevations & depths are estimates) & Individuals Contacted.

As requested and scheduled, the engineering technician identified below, arrived on site to perform in-place soil density testing on pavement areas (roadways) flexible base material at the following locations:

Location:

Mudstone Place – approximately between STA 4+56 to 9+93, final lift.

Fiore Garden – approximately between STA 1+00 to 4+71, final lift.

Azzurro Stone – approximately between STA 4+50 to 13+60, final lift.

Chalk Cave - approximately between STA 9+79 to 15+31, final lift.

Please see the attached drawing for approximate test locations.

The technician reviewed the project contract documents including civil drawing sheets C2.16, C7.00, and C7.03, dated 11/14/2023, as well as the Geotechnical report of record, dated 04/25/2022.

Utilizing the nuclear method ASTM D6938, to test the compaction of the flexible base at the locations and elevations referenced in the attached report, the test results were found to meet the project's minimum compaction requirements of 95% of the maximum dry density and an optimum moisture content range of -2% to +3%, as determined in our laboratory utilizing the Tex-113-E proctor method.

NO EXCEPTIONS WERE NOTED.

Prior to the technicians' departure, Sammy Ramos representing V.K. Knowlton was notified of the observations and testing performed today.

**Field Compaction Summary, ASTM D6938**

Project No: 20:1910

Project Name: Stone Garden - Unit 2A

Date: 10/6/2025

ECS Southwest, LLP

Client: Lennar

Contractor: Lennar

Technician: Paul Anthony White

Test Method ASTM D6938			
Nuclear Gauge No. 4964			
Make	Instrotek	Density Std	2721
Model	3500 Xplorer	Moisture Std	683
Ser. No.	4964		

Sample No.				Description			Proctor Method					Uncorrected Max. Density			Uncorrected Optimum Moisture Content
D4S-12				(GP-GC) POORLY GRADED GRAVEL WITH SILTY CLAY & SAND, Lt. Brown (Crushed Limestone)			TEX-113-E					137.7			4.5
Test No.	Lot No.	Test Mode	Probe Depth (in.)	Station / Location	Lift / Elev	Sample No.	% Oversize	Corrected Max. Density	Corrected Optimum Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Moisture Content (%)	Percent Comp. (%)	P / F	Comments
1		DT	4	Mudstone Place flexible base, near STA 9+50, rt. of centerline.	Final Lift	D4S-12	0.00	137.7	4.5	138.9	132.9	4.5	96.5	P	
2		DT	4	Mudstone Place flexible base, near STA 8+00, lt. of centerline.	Final Lift	D4S-12	0.00	137.7	4.5	141.9	136.5	4.0	99.1	P	
3		DT	4	Mudstone Place flexible base, near STA 6+50, centerline.	Final Lift	D4S-12	0.00	137.7	4.5	144.4	138.7	4.1	100.7	P	
4		DT	4	Mudstone Place flexible base, near STA 5+00, rt. of centerline.	Final Lift	D4S-12	0.00	137.7	4.5	145.3	139.0	4.5	100.9	P	
5		DT	4	Fiore Garden flexible base, near STA 1+50, centerline.	Final Lift	D4S-12	0.00	137.7	4.5	145.6	138.9	4.8	100.9	P	

**Field Compaction Summary, ASTM D6938**

Project No: 20:1910

Project Name: Stone Garden - Unit 2A

Date: 10/6/2025

ECS Southwest, LLP

Client: Lennar

Contractor: Lennar

Technician: Paul Anthony White

Test Method ASTM D6938			
Nuclear Gauge No. 4964			
Make	Instrotek	Density Std	2721
Model	3500 Xplorer	Moisture Std	683
Ser. No.	4964		

Test No.	Lot No.	Test Mode	Probe Depth (in.)	Station / Location	Lift / Elev	Sample No.	% Oversize	Corrected Max. Density	Corrected Optimum Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Moisture Content (%)	Percent Comp. (%)	P / F	Comments
6		DT	4	Fiore Garden flexible base, near STA 2+80, rt. of centerline.	Final Lift	D4S-12	0.00	137.7	4.5	142.4	135.6	5.0	98.5	P	
7		DT	4	Fiore Garden flexible base, near STA 4+30, lt. of centerline.	Final Lift	D4S-12	0.00	137.7	4.5	136.3	131.8	3.4	95.7	P	
8		DT	4	Azzurro Stone flexible base, near STA 5+00, centerline.	Final Lift	D4S-12	0.00	137.7	4.5	140.9	135.6	4.0	98.5	P	
9		DT	4	Azzurro Stone flexible base, near STA 6+00, rt. of centerline.	Final Lift	D4S-12	0.00	137.7	4.5	140.6	134.5	4.5	97.7	P	
10		DT	4	Azzurro Stone flexible base, near STA 7+50, centerline.	Final Lift	D4S-12	0.00	137.7	4.5	141.4	135.9	4.0	98.7	P	
11		DT	4	Azzurro Stone flexible base, near STA 9+00, lt. of centerline.	Final Lift	D4S-12	0.00	137.7	4.5	144.7	136.9	5.6	99.4	P	
12		DT	4	Azzurro Stone flexible base, near STA 11+00, rt. of centerline.	Final Lift	D4S-12	0.00	137.7	4.5	143.0	136.7	4.5	99.3	P	

**Field Compaction Summary, ASTM D6938**

Project No: 20:1910

Project Name: Stone Garden - Unit 2A

Date: 10/6/2025

ECS Southwest, LLP

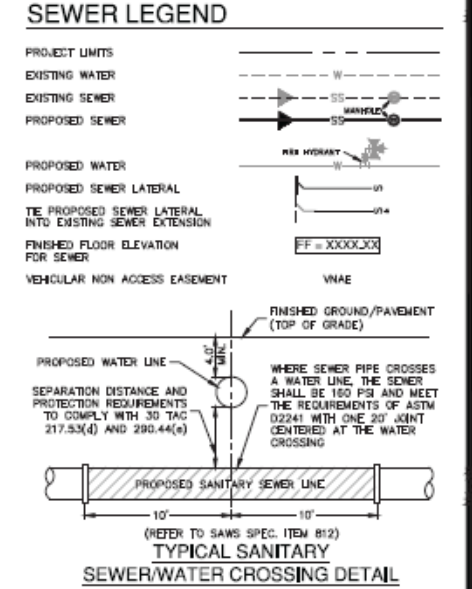
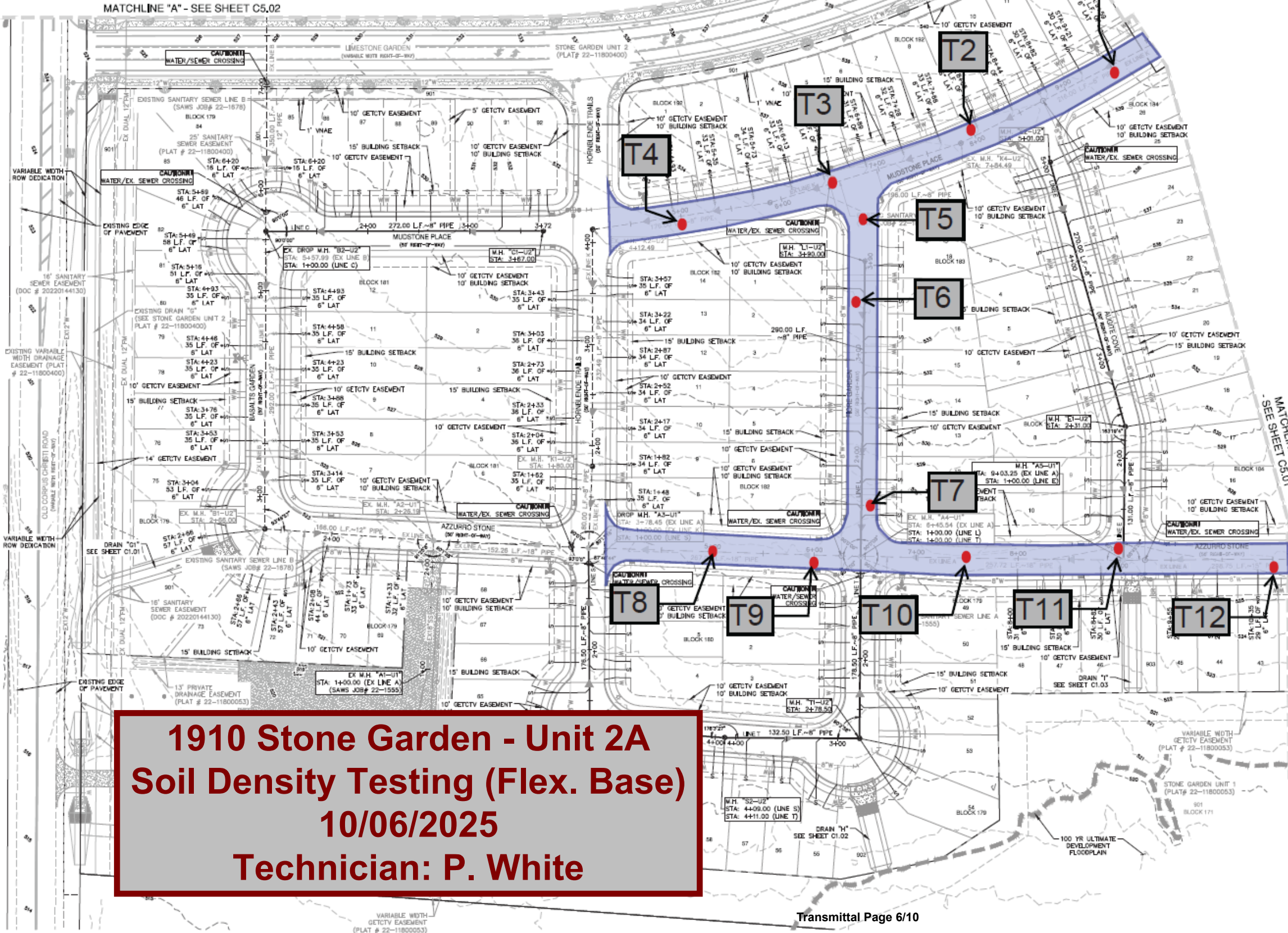
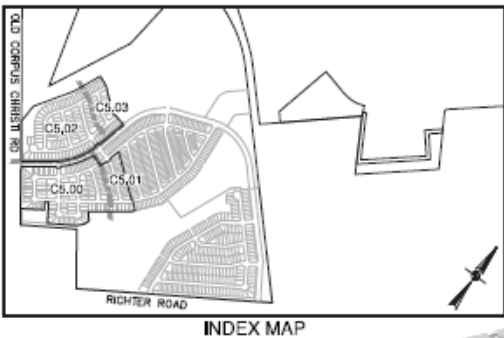
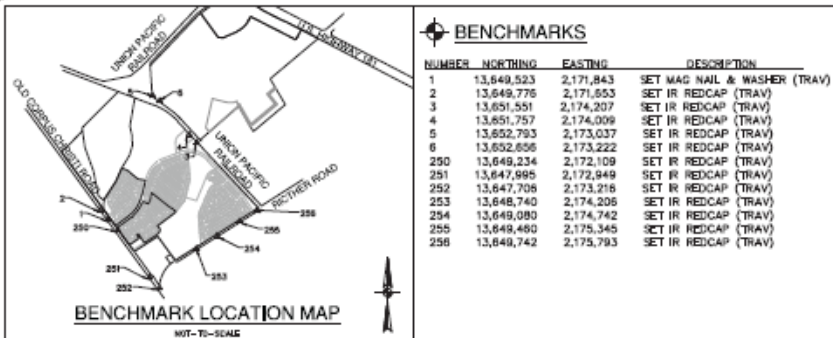
Client: Lennar

Contractor: Lennar

Technician: Paul Anthony White

Test Method ASTM D6938			
Nuclear Gauge No. 4964			
Make	Instrotek	Density Std	2721
Model	3500 Xplorer	Moisture Std	683
Ser. No.	4964		

Test No.	Lot No.	Test Mode	Probe Depth (in.)	Station / Location	Lift / Elev	Sample No.	% Oversize	Corrected Max. Density	Corrected Optimum Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Moisture Content (%)	Percent Comp. (%)	P / F	Comments
13		DT	4	Azzurro Stone flexible base, near STA 12+50, lt. of centerline.	Final Lift	D4S-12	0.00	137.7	4.5	144.0	138.3	4.1	100.4	P	
14		DT	4	Azzurro Stone flexible base, near STA 13+55, rt. of centerline.	Final Lift	D4S-12	0.00	137.7	4.5	146.3	138.8	5.4	100.8	P	
15		DT	4	Chalk Cave flexible base, near STA 14+95, lt. of centerline.	Final Lift	D4S-12	0.00	137.7	4.5	143.8	138.5	3.8	100.6	P	
16		DT	4	Chalk Cave flexible base, near STA 13+50, centerline.	Final Lift	D4S-12	0.00	137.7	4.5	142.1	136.2	4.2	98.9	P	
17		DT	4	Chalk Cave flexible base, near STA 12+00, rt. of centerline.	Final Lift	D4S-12	0.00	137.7	4.5	138.4	132.1	4.8	95.9	P	
18		DT	4	Chalk Cave flexible base, near STA 10+50, lt. of centerline.	Final Lift	D4S-12	0.00	137.7	4.5	143.9	138.0	4.3	100.2	P	



CAUTION!!
CONTRACTOR SHALL BE REQUIRED TO LOCATE ALL PUBLIC OR PRIVATE UTILITIES INCLUDING BUT NOT LIMITED TO: WATER, SEWER, TELEPHONE AND FIBER OPTIC LINES, SITE LIGHTING, ELECTRICAL, SECONDARY ELECTRICAL, PRIMARY ELECTRICAL, DUCTWORKS, LANDSCAPE IRRIGATION FACILITIES, AND GAS LINES. ANY UTILITY CONFLICTS THAT ARISE SHOULD BE COMMUNICATED TO THE ENGINEER IMMEDIATELY AND PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL CONTACT 1-800-NO-TEST A MINIMUM OF 48 HOURS PRIOR TO THE START OF CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND THE REPAIR SHALL BE AT CONTRACTOR'S SOLE EXPENSE WHETHER THE UTILITY IS SHOWN ON THESE PLANS OR NOT.

FINISHED FLOOR NOTES:
1. THE FINISHED FLOOR ELEVATIONS (FF) REPRESENT THE MINIMUM POSSIBLE FLOOR ELEVATION TO PROVIDE SANITARY SEWER SERVICE TO EACH LOT. ACTUAL FINISHED FLOOR ELEVATIONS FOR EACH LOT ARE TO BE DETERMINED BY THE BUILDER AND SHALL TAKE INTO CONSIDERATION AS-BUILT CONDITIONS FOR FOUND SEWER SERVICES AND ACTUAL LATERAL PLACEMENT. IT IS THE BUILDER'S SOLE RESPONSIBILITY TO DETERMINE ACTUAL FINISHED FLOOR ELEVATIONS FOR EACH LOT PRIOR TO THE START OF HOME FOUNDATION CONSTRUCTION. TAKING INTO CONSIDERATION SITE DRAINAGE, STREET ACCESS AND SANITARY SEWER SERVICE ELEVATIONS.
2. THE MINIMUM SANITARY SEWER LATERAL GRADES WERE BASED UPON THE MINIMUM FINISHED FLOOR ELEVATIONS FOR THE LOTS LOCATED ON THE DOWNHILL SIDES OF THE PROPOSED ROADWAYS.

ROW PERMIT NOTE:
A BEJAR COUNTY PERMIT MUST BE OBTAINED BEFORE WORKING IN BEJAR COUNTY RIGHTS-OF-WAY.

TRENCH EXCAVATION SAFETY PROTECTION:
CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/GEOTECHNICAL/SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND ANY AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITES 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, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.

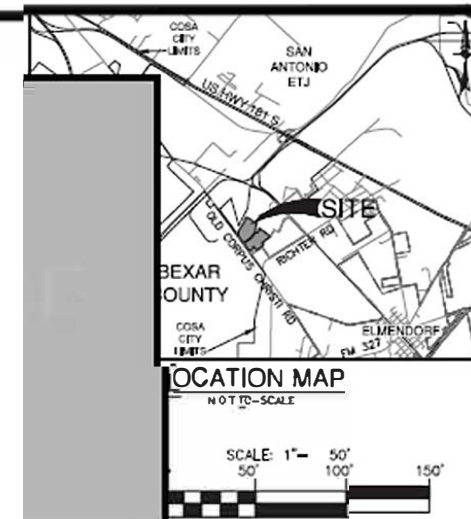
SEWER (LOWER-EAST SEWERSHED-DOS RIOS/LEON CREEK)

DEVELOPER'S NAME: LENNAR HOMES OF TEXAS	PLAT NO. 22-11800734
ADDRESS: 100 NE LOOP 410, STE 1155	JOB NO. 12482-04
CITY: SAN ANTONIO STATE: TEXAS ZIP: 78216	DATE: AUGUST 2023
PHONE# (210) 403-5200 FAX# N/A	DESIGNER: JG
SAWS BLOCK MAP# 204524 TOTAL EDP'S 291 TOTAL ACRES 45.15	CHECKED: DW DRAWN: TC
TOTAL LINEAR FOOTAGE OF PIPE: 145,000 LF (SEE PLAT NO. 22-11800734)	SHEET: C5.00
NUMBER OF LOTS: 291 SAWS JOB NO. 23-1574	

PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2002 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #1508860

STONE GARDEN - UNIT 2A
BEJAR COUNTY, TEXAS
OVERALL SANITARY SEWER PLAN

DATE: _____
NO. _____
REVISION _____



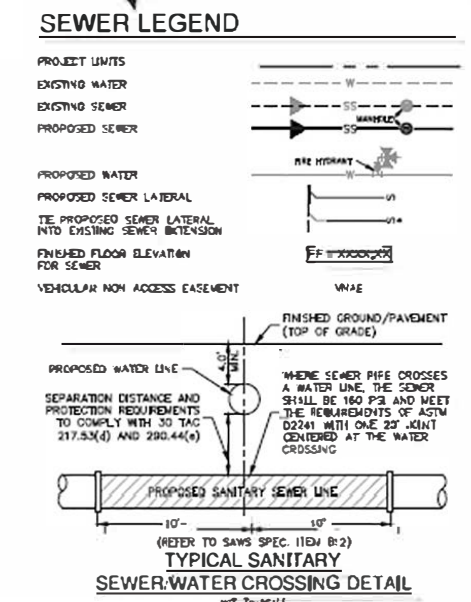
DATE	
NO.	
REVISION	



PAPE-DAWSON ENGINEERS
 SAN ANTONIO • AUSTIN • HOUSTON • FORT WORTH • DALLAS
 2000 NW LOOP 410 • SAN ANTONIO, TX 78213 • 210.375.9000
 TEXAS ENGINEERING FIRM #101000000

STONE GARDEN - UNIT 2A
 BEXAR COUNTY, TEXAS

QV ERA L SANITARY SEWER PL N



CAUTION!!
 CONTRACTOR SHALL BE REQUIRED TO LOCATE ALL PUBLIC OR PRIVATE UTILITIES INCLUDING BUT NOT LIMITED TO: WATER, SEWER, TELEPHONE AND FIBER OPTIC LINES, SITE LIGHTING, SECONDARY ELECTRICAL, PRIMARY ELECTRICAL DUCTBANKS, LANDSCAPE IRRIGATION FACILITIES, AND GAS LINES. ANY UTILITY CONFLICTS THAT ARISE SHOULD BE COMMUNICATED TO THE ENGINEER IMMEDIATELY AND PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL CONTACT 1-800-80-UTILES A MINIMUM OF 48 HOURS PRIOR TO THE START OF CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND THE REPAIR SHALL BE AT CONTRACTOR'S SOLE EXPENSE WHETHER THE UTILITY IS SHOWN ON THESE PLANS OR NOT.

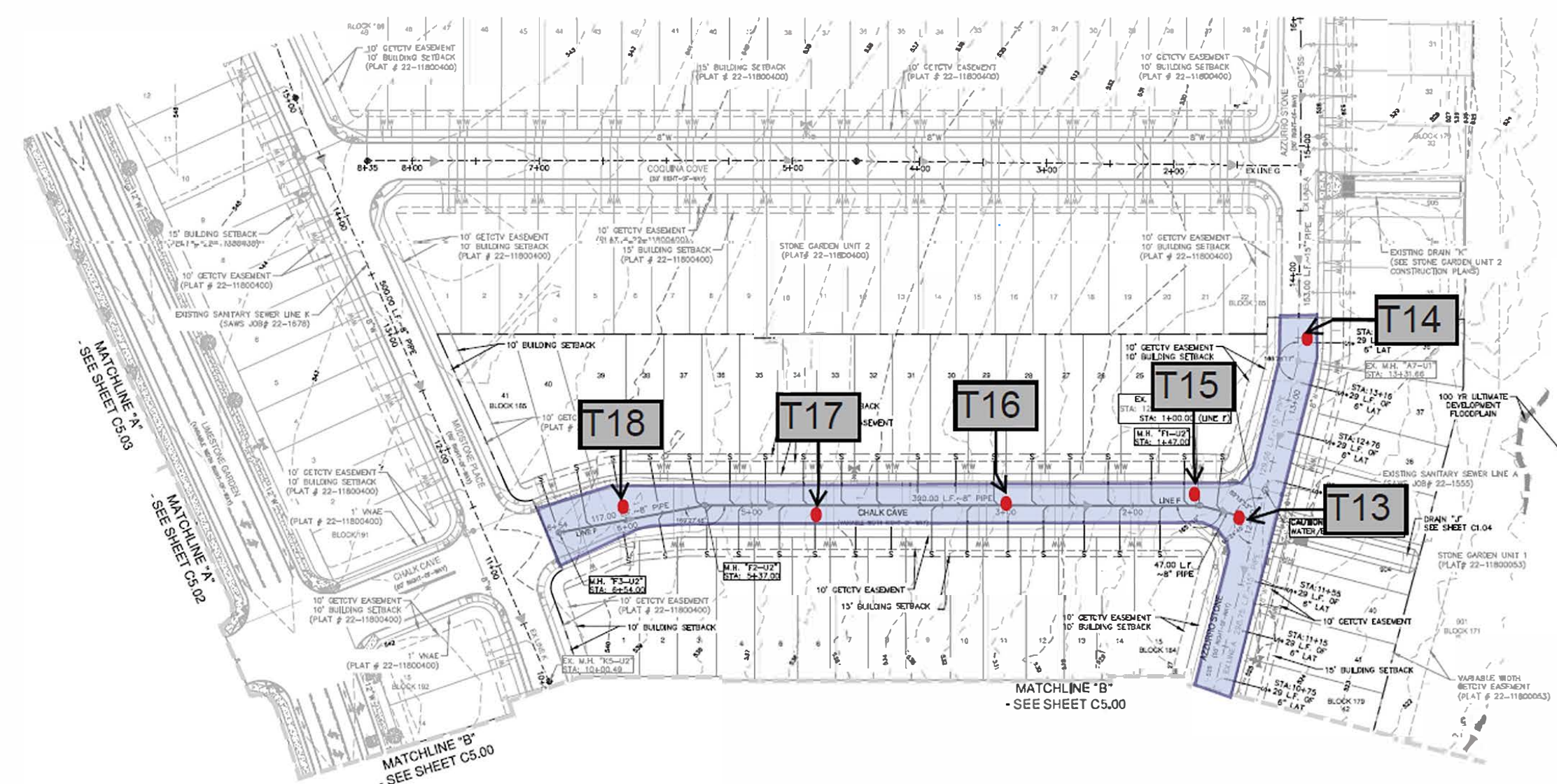
FINISHED FLOOR NOTES:
 1. THE FINISHED FLOOR ELEVATIONS (FF) REPRESENT THE MINIMUM POSSIBLE FLOOR ELEVATION TO PROVIDE SANITARY SEWER SERVICE TO EACH LOT. ACTUAL FINISHED FLOOR ELEVATIONS FOR EACH LOT ARE TO BE DETERMINED BY THE BUILDER AND SHALL TAKE INTO CONSIDERATION AS-BUILT CONDITIONS FOR FOUND SEWER SERVICES AND ACTUAL LATERAL PLACEMENT. IT IS THE BUILDER'S SOLE RESPONSIBILITY TO DETERMINE ACTUAL FINISHED FLOOR ELEVATIONS FOR EACH LOT PRIOR TO THE START OF HOME FOUNDATION CONSTRUCTION TAKING INTO CONSIDERATION SITE DRAINAGE, STREET ADDRESS AND SANITARY SEWER SERVICE ELEVATIONS.
 2. THE MINIMUM SANITARY SEWER LATERAL GRADES WERE BASED UPON THE MINIMUM FINISHED FLOOR ELEVATIONS FOR THE LOTS LOCATED ON THE DOWNHILL SIDES OF THE PROPOSED ROADWAYS.

ROW PERMIT NOTE:
 A BEXAR COUNTY PERMIT MUST BE OBTAINED BEFORE WORKING IN BEXAR COUNTY RIGHTS-OF-WAY.

TRENCH EXCAVATION SAFETY PROTECTION:
 CONTRACTOR AND/OR CONTRACTORS INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/ GEOTECHNICAL/ SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND ANY AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITES 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, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.

SEWER (LOWER-EAST SEVERSHED-DOO RIOS/LEON CREEK)

DEVELOPER'S NAME	LEONAS HOMES OF TEXAS
ADDRESS	100 NE LOOP 410, STE. 1155
CITY	SAN ANTONIO
STATE	TEXAS
ZIP	78216
PHONE (210)	453-9200
FAX	N/A
SAWS BLOCK MAP#	204526
TOTAL LOT#	291
TOTAL ACREAGE	45.15
TOTAL LINEAR FOOTAGE OF PROPOSED SANITARY SEWER	1,487.00
PLAT NO.	22-11800734
NUMBER OF LOTS	291
SAWS JOB NO.	21-1224



Attachments



Compacted base at the beginning of the Mudstone Pl. section, prior to testing.

Figure 1



Compacted base preparation for testing on Mudstone Pl.

Figure 2

Attachments



Compacted base at the Fiore Garden section, prior to testing.

Figure 3



View of base material processing at Azzurro Stone.

Figure 4

Attachments



View of flexible base processing in progress, Chalk Cave.

Figure 5



ECS Southwest, LLP
 431 Isom Road, Suite 114
 San Antonio, TX 78216
 T 210.528.1430
 F 214.483.9684

LETTER OF TRANSMITTAL

October 10, 2025
 Lennar
 100 NE Loop 410 Suite 1155
 San Antonio, TX 78216
 ATTN: Mr. Nathan Nowell

RE: **Stone Garden - Unit 2A**
 ECS Job # **20:1910**
 Permits:
 Location: **14395 Old Corpus Christi Road**
Elmendorf, TX 78112

☒ Field Reports ☒ For your use ☒ As requested

CC: City of San Antonio - Development Services
 Department - Juan Ramirez

Lennar - Rogelio "Roy" Olivarez, Jr.
 V.K. Knowlton Construction - Sammy Ramos

ENCL:

Laboratory testing has been completed for the following sample collected by ECS on 9/30/2025 (reference report 20:1952-96).

SOIL DESCRIPTION:
 Tan Crushed Limestone

SOURCE PIT:
 Vulcan Materials Company Plant 4157-111 1604.

SAMPLE ID:
 D4S-23: Atterberg Limits (SP), Sieve Analysis, and TEX-113E

RESULTS:
 Material meets criteria for Item A-2 Base for the properties tested.

Frank M. Munoz
 Office Manager

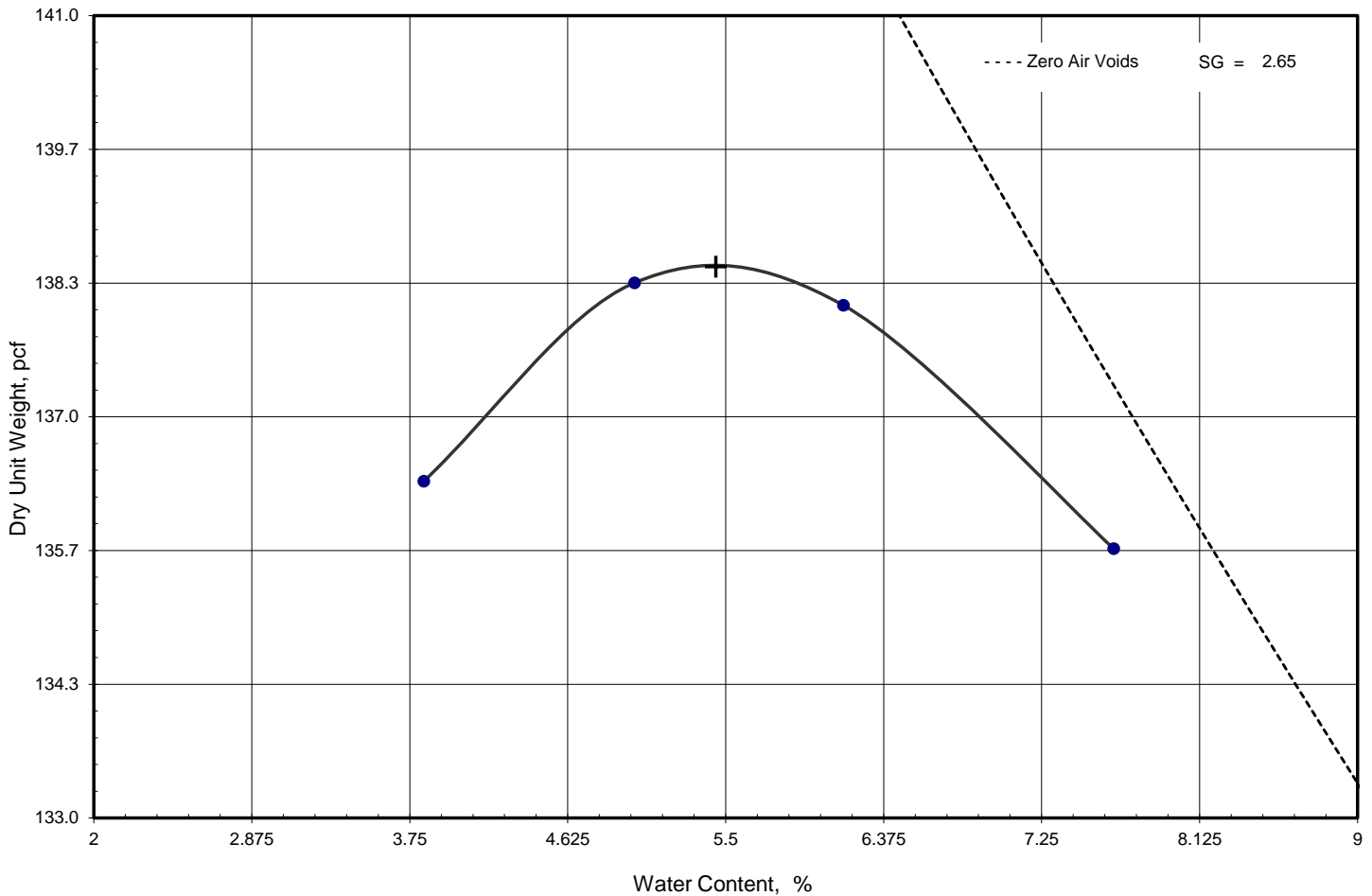
Stephanie Marie Chavez
 CMT Project Professional I

Disclaimer

1. This report (and any attachments) shall not be reproduced except in full without prior written approval of ECS.
2. The information in this report relates only to the activities performed on the report date.
3. Where appropriate, this report includes statements as to compliance with applicable project drawings, and specifications for the activities, performed on this report date.
4. Incomplete or non-conforming work will be reported for future resolution.
5. The results of samples and/or specimens obtained or prepared for subsequent laboratory testing will be presented in separate reports/documents.

Laboratory Compaction Characteristics of Soil

TEX-113-E



Optimum Moisture Content	5.4	%	Preparation	TEX-101-E
Maximum Dry Unit Weight	138.5	pcf	Type of rammer	Mechanical - sector face
			Test Specification / Method	TEX-113-E
			Specific gravity - D854 water pycnometer	2.65 Historical

Soil Description

Nat. Moist. %	Liquid Limit	Plasticity Index	%< #200	USCS	AASHTO
2.9	15	5	19.1	GC-GM	A-1-b

Project: Stone Garden - Unit 2A
 Client: Lennar
 Sample / Source: Import A2 Base(Item 247) material from Vulcan Materials

Project No.: 20:1910
 Depth (ft.): 0 - 1
 Sample No.: D4S-23
 Date Reported: 10/9/2025



Office / Lab	Address	Office Number / Fax
ECS Southwest LLP - San Antonio	431 Isom Road Suite 114 San Antonio, TX 78216	(210)528-1430 (214)483-9684

Tested by	Checked by	Approved by	Date Received	Remarks
fzuniga	fzuniga	fzuniga		



ECS Southwest, LLP
 431 Isom Road, Suite 114
 San Antonio, TX 78216
T 210.528.1430
F 214.483.9684

LETTER OF TRANSMITTAL

October 10, 2025
 Lennar
 100 NE Loop 410 Suite 1155
 San Antonio, TX 78216
 ATTN: Mr. Nathan Nowell

RE: **Stone Garden - Unit 2A**
 ECS Job # **20:1910**
 Permits:
 Location: **14395 Old Corpus Christi Road**
Elmendorf, TX 78112

☒ Field Reports ☒ For your use ☒ As requested

CC: City of San Antonio - Development Services
 Department - Juan Ramirez

Lennar - Rogelio "Roy" Olivarez, Jr.
 V.K. Knowlton Construction - Sammy Ramos

ENCL: Field Report # 98 10/9/2025 Soil Density Testing

Adam James Heiman, P.E.
 Assistant Office Manager

Stephanie Marie Chavez
 CMT Project Professional I

Disclaimer

1. This report (and any attachments) shall not be reproduced except in full without prior written approval of ECS.
2. The information in this report relates only to the activities performed on the report date.
3. Where appropriate, this report includes statements as to compliance with applicable project drawings, and specifications for the activities, performed on this report date.
4. Incomplete or non-conforming work will be reported for future resolution.
5. The results of samples and/or specimens obtained or prepared for subsequent laboratory testing will be presented in separate reports/documents.

**ECS Southwest, LLP**

431 Isom Road, Suite 114

San Antonio, TX 78216

T 210.528.1430

F 214.483.9684

FIELD REPORT

Project **Stone Garden - Unit 2A**
 Location **Elmendorf, TX**
 Client **Lennar**
 Contractor **Lennar**

Project No. **20:1910**
 Report No. **98**
 Day & Date **Thursday 10/9/2025**
 Weather **88 °/ Sunny**
 On-Site Time **2.00**
 Lab Time **0.00**
 Travel Time* **0.50**
 Total **2.50**
 Re Obs Time **0.00**

Remarks **Soil Density Testing**

Trip Charges*	35.00	Tolls/Parking*		Mileage*		Time of Arrival	Departure
Chargeable Items	5000					9:15A	11:15A

* Travel time and mileage will be billed in accordance with the contract.

Summary of Services Performed (field test data, locations, elevations & depths are estimates) & Individuals Contacted.

The undersigned arrived on-site, as requested, to observe the compaction of the Base Material.

Location:

Hornblende Trails- STA 2+00 to 2+76.50

Giallo Place- STA 3+50

Azzuro Stone- STA 2+50 to 2+00

Basalts Garden- STA 3+50 to 5+00

Mudstone Place - STA 2+00 to 3+50

Please see the attached sketch.

Geotechnical report dated 4/25/2022 was reviewed prior to testing.

Utilizing the Nuclear Method ASTM D6938, to check the compaction of base material at the areas and elevations tested, test results met the project requirements of 95% of the corrected maximum dry density and moisture content of -2% to +3% of optimum, as determined in our laboratory using the Modified Proctor Method TEX-113-E.

Noted exceptions: City of San Antonio Inspector, Santiago Vidales, was notified of the compaction results exceeding 105% and gave ECS permission to proceed with testing observations for the road base at southern avenue of Stone garden which included Hornblende Trails, Giallo Place, Azzuro Stone, Basalts Garden, and Mudstone Place.

Prior to the technicians' departure, Sammy Ramos representing V.K. Knowlton was notified of the observations and testing performed today.

**Field Compaction Summary, D6938**

Project No: 20:1910

Project Name: Stone Garden - Unit 2A

Date: 10/9/2025

ECS Southwest, LLP

Client: Lennar

Contractor: Lennar

Technician: Tyler Batungbacal

Test Method D6938			
Nuclear Gauge No. 5403			
Make		Density Std	2924
Model		Moisture Std	687
Ser. No.	5403		

Sample No.				Description			Proctor Method					Uncorrected Max. Density		Uncorrected Optimum Moisture Content	
D4S-12				(GP-GC) POORLY GRADED GRAVEL WITH SILTY CLAY & SAND, Light Tan			TEX-113-E					137.7		4.5	
Test No.	Lot No.	Test Mode	Probe Depth (in.)	Station / Location	Lift / Elev	Sample No.	% Oversize	Corrected Max. Density	Corrected Optimum Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Moisture Content (%)	Percent Comp. (%)	P / F	Comments
1		DT	6	STA 2+00 Hornblende Trails	Final lift	D4S-12	0.00	137.7	4.5	155.5	148.6	4.6	107.9	P	
2		DT	6	STA 2+75 Hornblende Trails	Final lift	D4S-12	0.00	137.7	4.5	151.8	145.9	4.0	106.0	P	
3		DT	6	STA 2+04 Hornblende Trails	Final Lift	D4S-12	0.00	137.7	4.5	151.9	145.6	4.3	105.7	P	
4		DT	6	STA 2+00 NW of S cul-de-Saxon Hornblende Trls	Final Lift	D4S-12	0.00	137.7	4.5	156.7	149.6	4.8	108.6	P	
5		DT	6	STA 3+45 NW of E cul-de-sac Giallo Pl.	Final Lift	D4S-12	0.00	137.7	4.5	148.9	140.2	6.2	101.8	P	
6		DT	6	STA 2+00 SW of intersection/Azzuro Stone	Final lift	D4S-12	0.00	137.7	4.5	143.3	136.7	4.9	99.3	P	
7		DT	6	STA 2+00 SE OF cup -de-sac Azzuro Stone	Final Lift	D4S-12	0.00	137.7	4.5	141.7	134.8	5.1	97.9	P	
8		DT	6	STA 3+50 Basalts Garden	Final lift	D4S-12	0.00	137.7	4.5	147.5	139.3	5.9	101.2	P	
9		DT	6	5+00 Basalts Garden	Final lift	D4S-12	0.00	137.7	4.5	147.3	139.4	5.7	101.2	P	

**Field Compaction Summary, D6938**

Project No: 20:1910

Project Name: Stone Garden - Unit 2A

Date: 10/9/2025

ECS Southwest, LLP

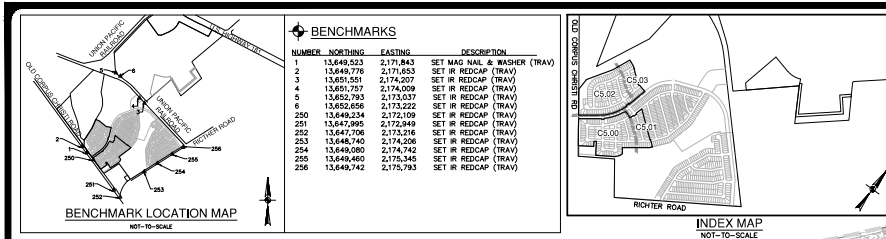
Client: Lennar

Contractor: Lennar

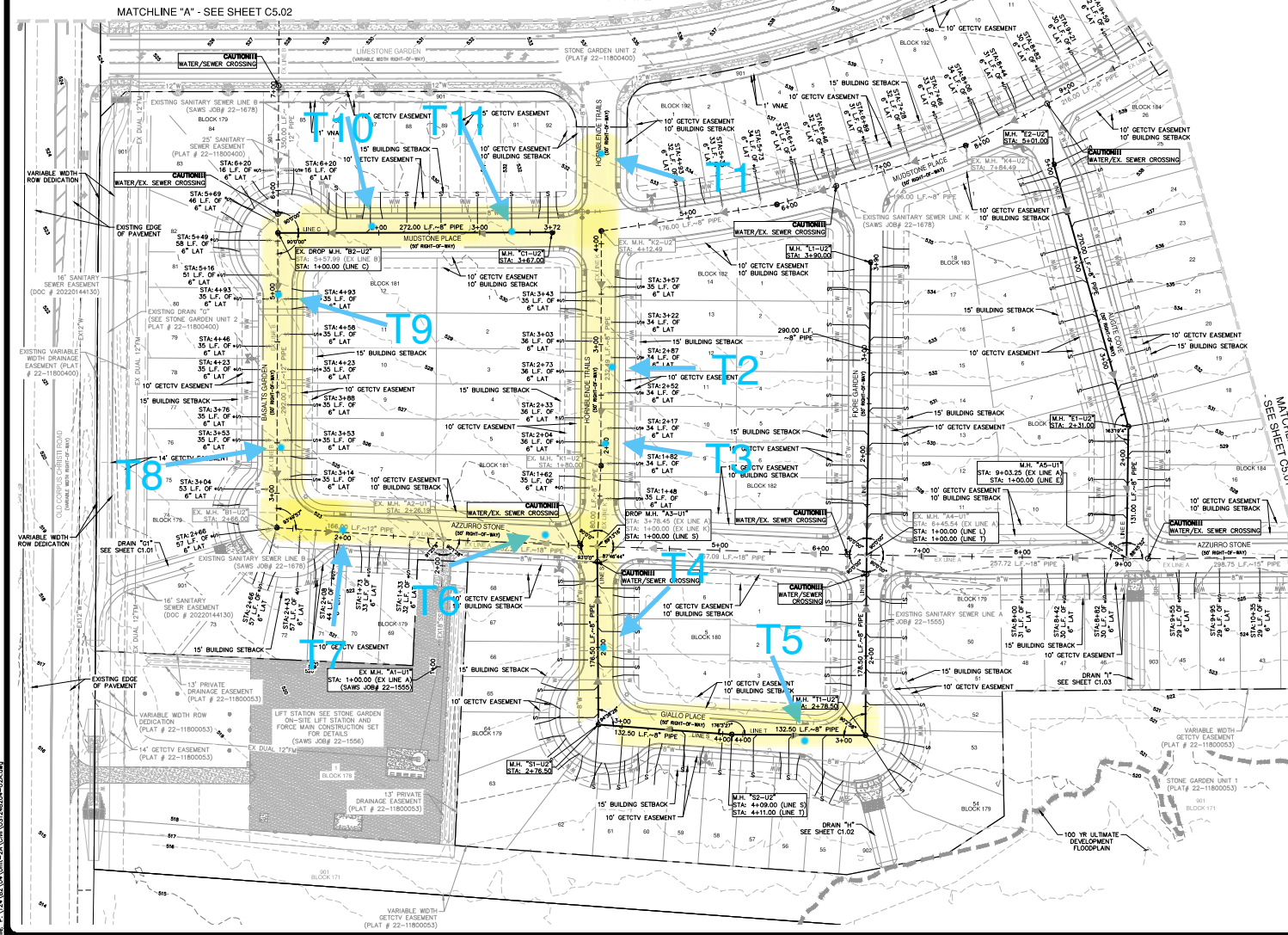
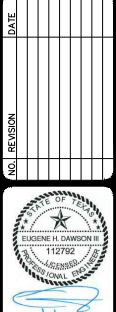
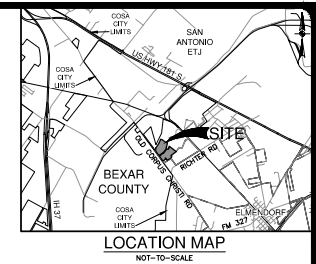
Technician: Tyler Batungbacal

Test Method D6938			
Nuclear Gauge No. 5403			
Make		Density Std	2924
Model		Moisture Std	687
Ser. No.	5403		

Test No.	Lot No.	Test Mode	Probe Depth (in.)	Station / Location	Lift / Elev	Sample No.	% Oversize	Corrected Max. Density	Corrected Optimum Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Moisture Content (%)	Percent Comp. (%)	P / F	Comments
10		DT	6	STA 2+00 Mudstone Place	Final Lift	D4S-12	0.00	137.7	4.5	148.8	141.1	5.5	102.5	P	
11		DT	6	STA 3+50 Mudstone Place	Final Lift	D4S-12	0.00	137.7	4.5	148.4	141.5	4.9	102.8	P	



1910 Stone Garden- unit 2A
Field Density Testing
10/09/2025
Technician: Tyler Batungbacal



Attachments



Main road for testing site Hornblend

Figure 1



Roller used for compaction

Figure 2

Attachments



STA location used for testing

Figure 3



Testing site

Figure 4



ECS Southwest, LLP
 431 Isom Road, Suite 114
 San Antonio, TX 78216
 T 210.528.1430
 F 214.483.9684

LETTER OF TRANSMITTAL

October 30, 2025
 Lennar
 100 NE Loop 410 Suite 1155
 San Antonio, TX 78216
 ATTN: Mr. Nathan Nowell

RE: **Stone Garden - Unit 2A**
 ECS Job # **20:1910**
 Permits:
 Location: **14395 Old Corpus Christi Road**
Elmendorf, TX 78112

☒ Field Reports ☒ For your use ☒ As requested

CC: City of San Antonio - Development Services
 Department - Juan Ramirez

Lennar - Rogelio "Roy" Olivarez, Jr.
 V.K. Knowlton Construction - Sammy Ramos

ENCL: Field Report # 102 10/29/2025 Asphalt Testing

Adam James Heiman, P.E.
 Assistant Office Manager

Stephanie Marie Chavez
 CMT Project Professional I

Disclaimer

1. This report (and any attachments) shall not be reproduced except in full without prior written approval of ECS.
2. The information in this report relates only to the activities performed on the report date.
3. Where appropriate, this report includes statements as to compliance with applicable project drawings, and specifications for the activities, performed on this report date.
4. Incomplete or non-conforming work will be reported for future resolution.
5. The results of samples and/or specimens obtained or prepared for subsequent laboratory testing will be presented in separate reports/documents.

**ECS Southwest, LLP**

431 Isom Road, Suite 114

San Antonio, TX 78216

T 210.528.1430

F 214.483.9684

FIELD REPORT

Project **Stone Garden - Unit 2A**
 Location **Elmendorf, TX**
 Client **Lennar**
 Contractor **Lennar**

Project No. **20:1910**
 Report No. **102**
 Day & Date **Wednesday 10/29/2025**
 Weather **60 °/ Sunny**
 On-Site Time **2.75**
 Lab Time **0.50**
 Travel Time* **1.50**
 Total **4.75**
 Re Obs Time **0.00**

Remarks **Asphalt Testing**

Trip Charges*	35.00	Tolls/Parking*		Mileage*		Times of Arrival	Departure
Chargeable Items						9:30A	10:30A
						3:15P	5:00P

* Travel time and mileage will be billed in accordance with the contract.

Summary of Services Performed (field test data, locations, elevations & depths are estimates) & Individuals Contacted.

The undersigned arrived on-site, as requested to observe the placement and compaction of type-D asphalt.

Location:

Quartz Cove

Granite Garden

Dacite Place

Chalk Cave

Gabbro Cove

Please see the attached sketch.

Geotechnical Report was referenced prior to testing and the asphalt RICE value of the day was confirmed by Hanson HMA Plant.

Utilizing the Nuclear Method ASTM D2950 to check the compaction of the asphalt; test results indicated that the compacted material, at the areas and elevations tested, met the project requirements of 92% to 97% of the maximum wet density.

The asphalt observed on this date appeared to be placed in compliance with project specifications regarding lift thickness and lay down temperature.

Prior to departure, Junior with Lone Star Paving was informed of the results of the day's testing and observations.

By Francisco Dix

1700



Asphalt Field Compaction Summary

Test Method			
Nuclear Gauge No.			
Make		Density Std	
Model		Moisture Std	
Ser. No.			

Project No.: _____ Project Name: _____

Paving Company: _____

Date: _____

Technician: _____

Producer: _____

Mix Type(s): _____

Density Determination: _____

General Location: _____

Asphalt Lay-down Temperature	
Maximum Recorded	
Minimum Recorded	

Type ID	Type Description (material, type, joint, mat, etc)	Target Density	Lower Limit (%)	Upper Limit (%)

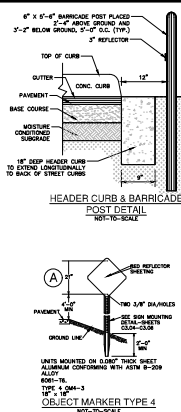
Test No.	Type ID (from table)	Station / Location	Test Data			Comments
			Wet Density (pcf)	Percent Comp. (%)	P / F	

Test Mode:

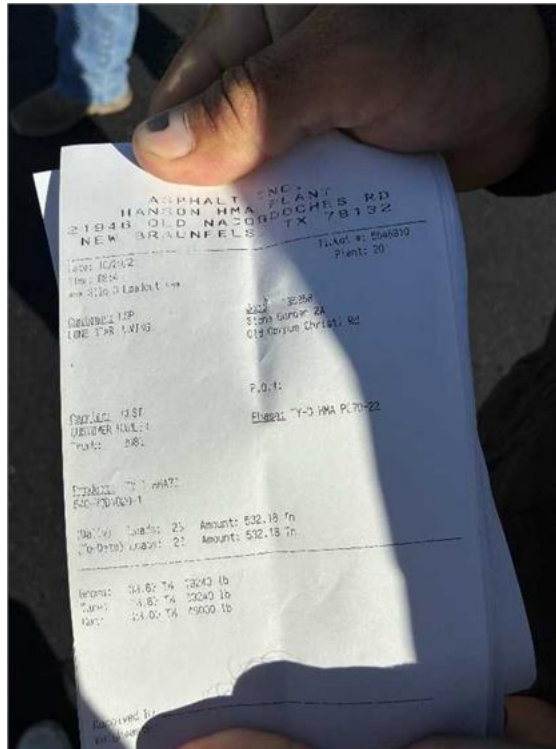
No. of tests on sheet: _____ Total(%): _____

Average (%): _____

Specifications/Standards: _____
(for nuclear method, DOT, etc)

[illegible]

Attachments



Batch ticket

Figure 1



Asphalt placement in progress

Figure 2

Attachments



Compaction in progress

Figure 3



Commencing density testing for streets

Figure 4



ECS Southwest, LLP
 431 Isom Road, Suite 114
 San Antonio, TX 78216
T 210.528.1430
F 214.483.9684

LETTER OF TRANSMITTAL

November 13, 2025
 Lennar
 100 NE Loop 410 Suite 1155
 San Antonio, TX 78216
 ATTN: Mr. Nathan Nowell

RE: **Stone Garden - Unit 2A**
 ECS Job # **20:1910**
 Permits:
 Location: **14395 Old Corpus Christi Road**
Elmendorf, TX 78112

☒ Field Reports ☒ For your use ☒ As requested

CC: City of San Antonio - Development Services
 Department - Juan Ramirez

Lennar - Rogelio "Roy" Olivarez, Jr.
 V.K. Knowlton Construction - Sammy Ramos

ENCL: Field Report # 104 11/12/2025 Asphalt Testing & Observation

Adam James Heiman, P.E.
 Assistant Office Manager

Stephanie Marie Chavez
 CMT Project Professional I

Disclaimer

1. This report (and any attachments) shall not be reproduced except in full without prior written approval of ECS.
2. The information in this report relates only to the activities performed on the report date.
3. Where appropriate, this report includes statements as to compliance with applicable project drawings, and specifications for the activities, performed on this report date.
4. Incomplete or non-conforming work will be reported for future resolution.
5. The results of samples and/or specimens obtained or prepared for subsequent laboratory testing will be presented in separate reports/documents.

**ECS Southwest, LLP**

431 Isom Road, Suite 114

San Antonio, TX 78216

T 210.528.1430

F 214.483.9684

FIELD REPORT

Project **Stone Garden - Unit 2A**
 Location **Elmendorf, TX**
 Client **Lennar**
 Contractor **Lennar**

Project No. **20:1910**
 Report No. **104**
 Day & Date **Wednesday 11/12/2025**
 Weather **65 °/ Sunny**
 On-Site Time **1.00**
 Lab Time **0.25**
 Travel Time* **0.50**
 Total **1.75**
 Re Obs Time **0.00**

Remarks **Asphalt Testing & Observation**

Trip Charges*	35.00	Tolls/Parking*		Mileage*		Time of Arrival	Departure
Chargeable Items						11:00A	12:00P

* Travel time and mileage will be billed in accordance with the contract.

Summary of Services Performed (field test data, locations, elevations & depths are estimates) & Individuals Contacted.

The undersigned arrived on-site, as requested to observe the placement and compaction of asphalt.

Location:

Chalk Cave

Azzarro Stone

Please see the attached sketch.

REFERENCE:

Civil plan page Civil plan page C2.16 dated 9/11/2023 and the Geotechnical Report dated 4/25/2022 were referenced prior to testing. The asphalt RICE value of the day was provided by Bobcat Materials Representative.

METHOD:

Utilizing the Nuclear Method ASTM D2950 to check the compaction of the asphalt; test results indicated that the compacted material, at the areas and elevations tested.

RESULTS:

The testing MET the project requirements of 92% to 97% of the maximum wet density. The asphalt observed on this date appeared to be placed in compliance with project specifications regarding lift thickness and lay down temperature.

Prior to departure, Mundy Perdin with VK Knowlton was informed of the results of the day's testing and observations.



Asphalt Field Compaction Summary

Test Method			
Nuclear Gauge No.			
Make		Density Std	
Model		Moisture Std	
Ser. No.			

Project No.: _____ Project Name: _____

Paving Company: _____

Date: _____

Technician: _____

Producer: _____

Mix Type(s): _____

Density Determination: _____

General Location: _____

Asphalt Lay-down Temperature	
Maximum Recorded	
Minimum Recorded	

Type ID	Type Description (material, type, joint, mat, etc)	Target Density	Lower Limit (%)	Upper Limit (%)

[illegible]

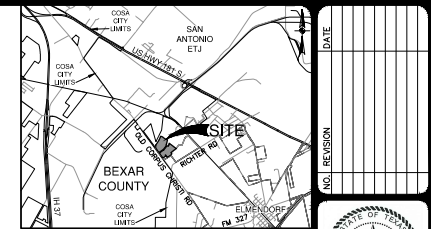
Test Mode: _____













No. of tests on sheet: _____

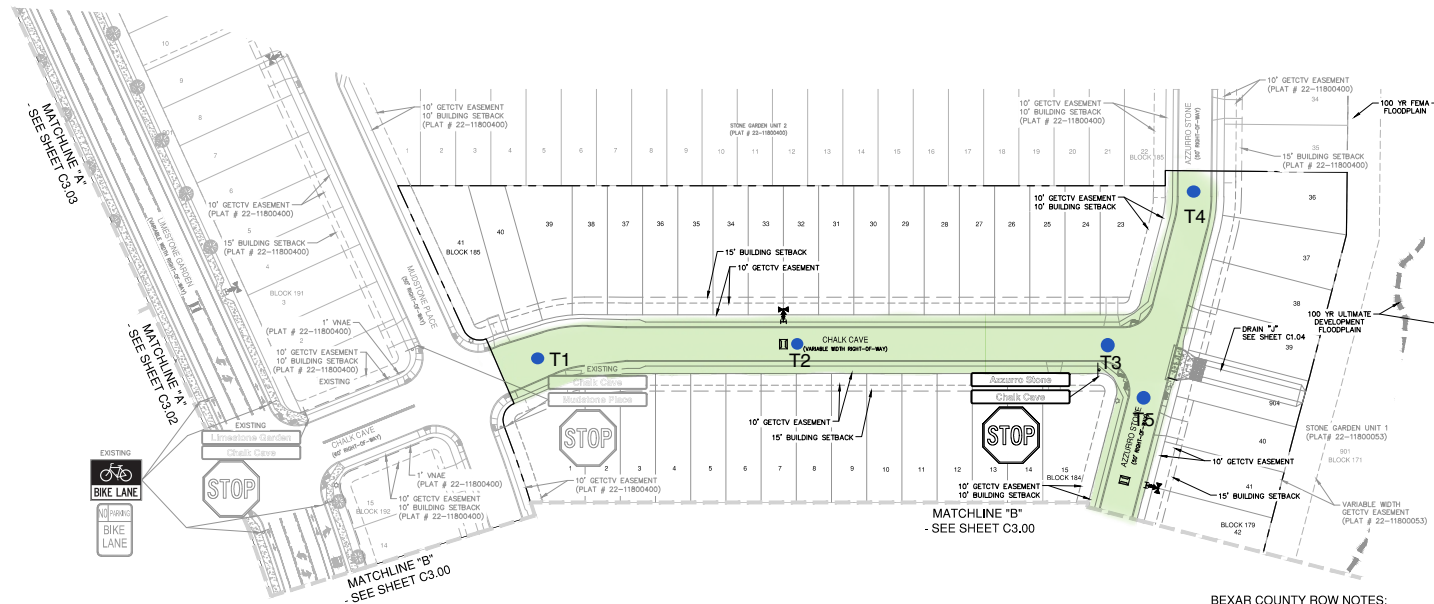
Average (%): _____ Specification/Standard: _____

Specification/Standard: _____

1910 Stone Garden 2A Asphalt Densities.
 Density Tested Area:
 Approximate location of test:
 Technician Juan Abner Cordova.



LOCATION MAP	
NOT-TO-SCALE	
	SCALE: 1"= 50' 50' 100' 150'
	
	
12/10/23	
SYMBOL	ITEM NUMBER
	UNIT BOUNDARY
	CURB INLET
	PROPOSED DRIVEWAY
	SIDEWALK (HOMEBUILDER RESPONSIBILITY)
	SIDEWALK (DEVELOPER'S RESPONSIBILITY)
	TYPE II BLUE RAISED PAVEMENT MARKERS - NO SEPARATE PAY ITEM (N.T.S.)
	VEHICULAR NON ACCESS EASEMENT
	END OF ROAD MARKER OM4-3
	HEADER CURB W/ BARRICADE POSTS
Ⓐ YELLOW DOUBLE 6\"/>	
STREET NAME STREET SIGN	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	
W14-14R	



TRENCH EXCAVATION SAFETY PROTECTION:

CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/ GEOTECHNICAL/ SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND ANY AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITES 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, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.

BEXAR COUNTY ROW NOTES:

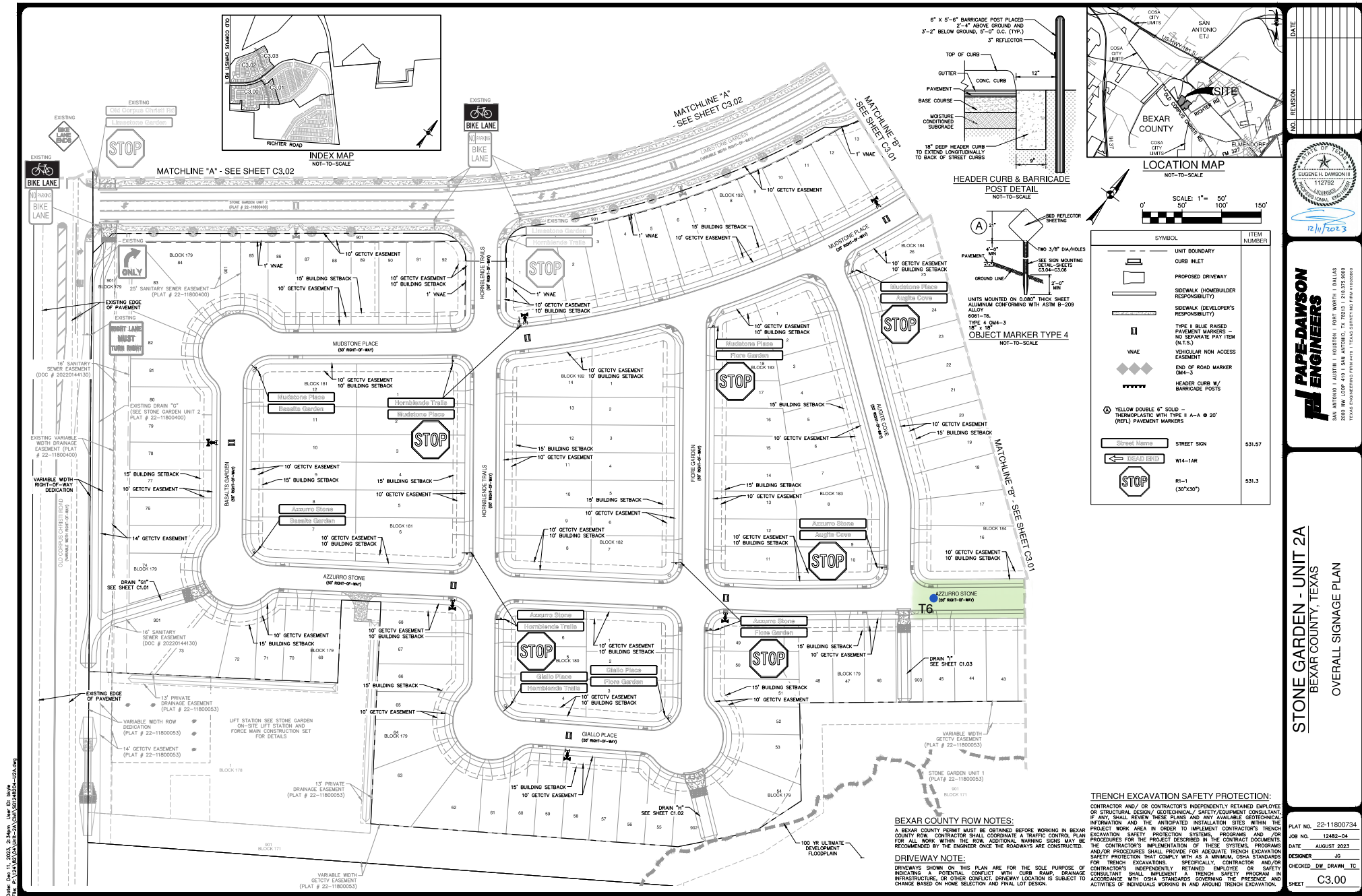
A BEXAR COUNTY PERMIT MUST BE OBTAINED BEFORE WORKING IN BEXAR COUNTY ROW. CONTRACTOR SHALL COORDINATE A TRAFFIC CONTROL PLAN FOR ALL WORK WITHIN THE ROW. ADDITIONAL WARNING SIGNS MAY BE RECOMMENDED BY THE ENGINEER ONCE THE ROADWAYS ARE CONSTRUCTED.

DRIVEWAY NOTE:

DRIVEWAYS SHOWN ON THIS PLAN ARE FOR THE SOLE PURPOSE OF INDICATING A POTENTIAL CONFLICT WITH CURB RAMP, DRAINAGE INFRASTRUCTURE, OR OTHER CONFLICT. DRIVEWAY LOCATION IS SUBJECT TO CHANGE BASED ON HOME SELECTION AND FINAL LOT DESIGN.

STONE GARDEN - UNIT 2A
 BEXAR COUNTY, TEXAS
 OVERALL SIGNAGE PLAN

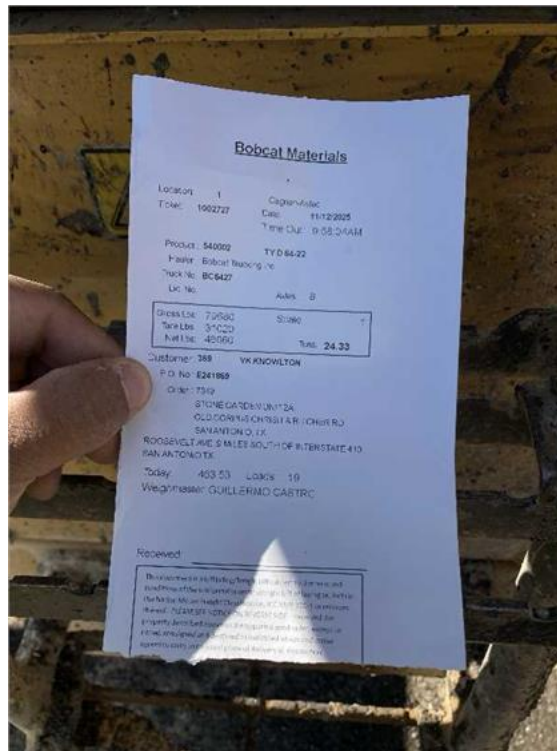
PLAT NO. 22-11800734
 JOB NO. 12482-04
 DATE AUGUST 2023
 DESIGNER JC
 CHECKED DW, DRANN, TC
 SHEET C3.01



STONE GARDEN - UNIT 2A
BEXAR COUNTY, TEXAS
OVERALL SIGNAGE PLAN

PLAT NO. 22-11800734
JOB NO. 12482-04
DATE AUGUST 2023
DESIGNER JC
CHECKED DW, DRAMIN, TC
SHEET C3.00

Attachments



Asphalt ticket

Figure 1



Asphalt densities

Figure 2

Attachments



Asphalt densities

Figure 3



Asphalt denaities

Figure 4



ECS Southwest, LLP
 431 Isom Road, Suite 114
 San Antonio, TX 78216
 T 210.528.1430
 F 214.483.9684

LETTER OF TRANSMITTAL

November 14, 2025
 Lennar
 100 NE Loop 410 Suite 1155
 San Antonio, TX 78216
 ATTN: Mr. Nathan Nowell

RE: **Stone Garden - Unit 2A**
 ECS Job # **20:1910**
 Permits:
 Location: **14395 Old Corpus Christi Road**
Elmendorf, TX 78112

☒ Field Reports ☒ For your use ☒ As requested

CC: City of San Antonio - Development Services
 Department - Juan Ramirez

Lennar - Rogelio "Roy" Olivarez, Jr.
 V.K. Knowlton Construction - Sammy Ramos

ENCL: Field Report # 105 11/13/2025 Asphalt Testing

Adam James Heiman, P.E.
 Assistant Office Manager

Stephanie Marie Chavez
 CMT Project Professional I

Disclaimer

1. This report (and any attachments) shall not be reproduced except in full without prior written approval of ECS.
2. The information in this report relates only to the activities performed on the report date.
3. Where appropriate, this report includes statements as to compliance with applicable project drawings, and specifications for the activities, performed on this report date.
4. Incomplete or non-conforming work will be reported for future resolution.
5. The results of samples and/or specimens obtained or prepared for subsequent laboratory testing will be presented in separate reports/documents.

**ECS Southwest, LLP**

431 Isom Road, Suite 114

San Antonio, TX 78216

T 210.528.1430

F 214.483.9684

FIELD REPORT

Project **Stone Garden - Unit 2A**
 Location **Elmendorf, TX**
 Client **Lennar**
 Contractor **Lennar**

Project No. **20:1910**
 Report No. **105**
 Day & Date **Thursday 11/13/2025**
 Weather **70 °/ Sunny**
 On-Site Time **6.50**
 Lab Time **0.50**
 Travel Time* **1.00**
 Total **8.00**
 Re Obs Time **0.00**

Remarks **Asphalt Testing**

Trip Charges*	35.00	Tolls/Parking*		Mileage*		Time of Arrival	Departure
Chargeable Items	5000					9:30A	4:00P

* Travel time and mileage will be billed in accordance with the contract.

Summary of Services Performed (field test data, locations, elevations & depths are estimates) & Individuals Contacted.
--

The undersigned arrived on-site, as requested to observe the placement and compaction of asphalt.

Location:

Mudstone Place

Fiore Garden

Giallo Place

Hornblende Trails

Azzurro Stone

Basalts Garden

See attached site plan.

REFERENCE:

Civil plan page Civil plan page C2.16 dated 9/11/2023 and the Geotechnical Report dated 4/25/2022 were referenced prior to testing. The asphalt RICE value of the day was provided by Bobcat Materials Representative.

METHOD:

Utilizing the Nuclear Method ASTM D2950 to check the compaction of the asphalt; test results indicated that the compacted material, at the areas and elevations tested.

RESULTS:

The testing MET the project requirements of 92% to 97% of the maximum wet density. The asphalt observed on this date appeared to be placed in compliance with project specifications regarding lift thickness and lay down temperature.

Prior to departure, Mundy Perdin with VK Knowlton was informed of the results of the day's testing and

observations.



Asphalt Field Compaction Summary

Test Method			
Nuclear Gauge No.			
Make		Density Std	
Model		Moisture Std	
Ser. No.			

Project No.: _____ Project Name: _____

Paving Company: _____

Date: _____

Technician: _____

Producer: _____

Mix Type(s): _____

Density Determination: _____

General Location: _____

Asphalt Lay-down Temperature	
Maximum Recorded	
Minimum Recorded	

Type ID	Type Description (material, type, joint, mat, etc)	Target Density	Lower Limit (%)	Upper Limit (%)

[illegible]

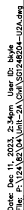
Test Mode: _____

No. of tests on sheet: _____

Average (%): _____ Specification/Standard: _____

Specification/Standard: _____

Technician Juan Abner Cordova.



Attachments



Asphalt densities

Figure 1



Asphalt densities

Figure 2

Attachments



Asphalt densities

Figure 3



Asphalt densities

Figure 4