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1675 W. Garden of the Gods Rd., Suite 2044 Colorado Springs, CO 80907 (719) 578-3199 phone (719) 575-8664 fax

www.elpasocountyhealth.org

CONVENTIONAL ON-SITE WASTEWATER TREATMENT SYSTEM FINAL INSPECTION FORM

P

Residential Property Information:

Owner:Jeff ColeAddress:10826 Clove Hitch Court Colorado Springs, CO 80908Approved No. Bedrooms:5Water supply:Well Installation verified:12.3.2021Well Location GPS:39 4' 22.00" N 104 37' 31.00" W

Approval will be revoked if in the future any well is found to be within 50 feet of the septic tank and/or 100 feet of the soil treatment area.

Minimum System Requirements:

Soil (in-situ) Type: 2A LTAR (In-situ soil): 0.5 Limiting Layer: Groundwater: None Bedrock: None

OWTS Tank: Capacity (gallons): 1500 OWTS Pump Tank: Capacity (gallons): N/A

Soil Treatment Area (STA): Sq. Ft. (10-1): 1200 Sq. Ft. (10-2): 1200 Sq. Ft. (10-3): 840 Sq. Ft. (with Diverter Valve): NA

Final system installation:

Licensed Installer: Tier II Installer: Colorado Civil Construction

Treatment Level: 1

OWTS Tank: GPS Location: 39 4' 24.10" N 104 37' 30.11" W

<u>Tank Type</u>: New Concrete <u>Capacity (gallon)</u>: 1500 <u>Effluent filter installed</u>: Yes

Risers: Sealed to tank: Yes Height: 32-34"

OWTS Pump Tank:

Tank Type: NA <u>Capacity (gallon)</u>: NA <u>Audio/Visual Alarm</u>: NA

Risers: Sealed to tank: N/A Height: N/A

OWTS Pump: N/A

Soil Treatment Area (STA): GPS Location: 39 4' 23.43" N 104 37' 31.45" W Total Sq. Ft installed: 840

<u>Configuration</u>: Trench <u>Distribution</u>: Gravity

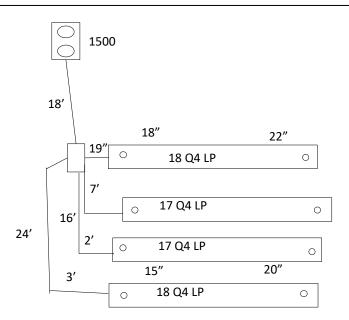
<u>Distribution Media</u>: Chambers <u>Infiltrative Surface Depth</u>: 15-22" <u>Distribution Area Length</u>: 72' <u>Distribution Area Width</u>: 28'

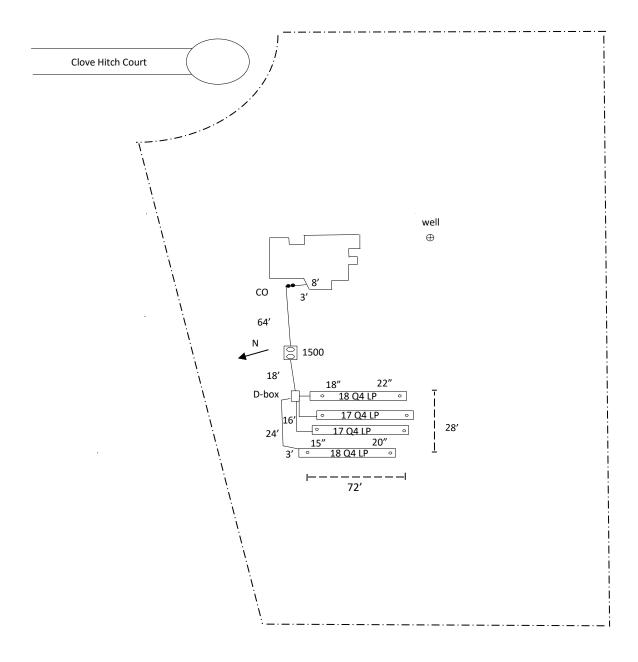
Media Type: Q4 LP (12 sq/ft) Total installed: 70

Notes: Not to scale

Record drawing on next page.

All pipe is Sch. 40





Notify Environmental Health of any change of ownership, type of business activity, business name, or billing address by calling (719) 578-3199. Failure to notify Environmental Health may result in late penalties, Permit/License denial or revocation, and business closure. PERMITS/LICENSES TO OPERATE AND ANNUAL FEE PAYMENTS ARE NOT TRANSFERABLE. Permits become void on change of ownership. New owners must apply and pay for a new Permit(s)/License(s) prior to beginning operation.

Attn: JS HOMES 10826 CLOVE HITCH CT COLORADO SPRINGS, CO 80908



EL PASO COUNTY PUBLIC HEALTH ENVIRONMENTAL HEALTH DIVISION

1675 W. GARDEN OF THE GODS ROAD, SUITE 2044
COLORADO SPRINGS, CO 80907
PHONE: (719) 578-3199 FAX: (719) 578-3188
www.elpasocountyhealth.org

NEW SYSTEM PERMIT - OWTS

Valid From 5/28/2021 To 6/28/2021

PERMITEE :

JS HOMES 10826 CLOVE HITCH CT COLORADO SPRINGS, CO 80908

OWNER NAME:

JEFF COLE

Onsite ID: 0N0050858
Tax Schedule #: 5124001006
Permit Issue Date: 05/28/2021

Dwelling Type: RESIDENTIAL

of Bedrooms (if Res): 5
Proposed Use (if Comm):
Designed Gallons/Day:
Water Source:

System Installation Requirements:

Monday, May 24, 2021 10:50 AM - CHELSEA STEVENS

- A Conventional non-engineered OWTS system to be installed on site, requiring a minimum of Tier I licensed installer.
- System installation includes gravity fed system with d-box to chamber in trenches. Minimum tank requirements 1500 gallon and 840 sq ft of soil treatment area (70 Q4 / 56 Arc 36 chambers required).
- The system must be installed per approved JS Homes Inc non-engineered design document #10826 Clove Hitch Court signed and dated 5.19.2021, changes to the approved design document must be submitted and approved by Public Health prior to installation.
- All horizontal setbacks must be maintained through system installation. In addition, system must remain completely uncovered, including the tank size, for final inspection.
- The well must be installed at time of final inspection, or final approval will not be given until well installation is verified.
- Ensure that all work is completed prior to contacting and requesting final line for inspection, otherwise additional fees may be incurred.
- During excavation, if bedrock, groundwater, changes in soil type from that previously identified, or other notable soil changes are encountered, all excavation must cease and EPCPH is to be contacted for an evaluation to determine if additional tests are required
- Issuance of this permit allows construction of the system as proposed. It does not imply or guarantee final system installation approval. System design or construction changes may be required based upon changed or newly discovered site conditions.

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This permit is issued in accordance with 25-10-106 Colorado Revised Statutes. The PERMIT EXPIRES upon completion/installation of the Onsite Wastewater Treatment System, or at the end of twelve (12) months from date of issue, whichever occurs first. If both a Building Permit and an Onsite Wastewater Treatment System Permit are issued for the same property and construction has not commenced prior to the expiration date of the Building Permit, the Onsite Wastewater Permit shall expire at the same time as the Building Permit. This permit is revocable if all stated requirements are not met. The Onsite Wastewater Treatment System must be installed by an El Paso County Licensed System Contractor, or the property owner.

The Health Officer shall assume no responsibility in case of failure or inadequacy of an Onsite Wastewater Treatment System, beyond consulting in good faith with the property owner or representative. Access to the property shall be authorized at reasonable time for the purpose of making such inspections as are necessary to determine compliance with the requirements of this law (permit).

> Inspection request line: Call (719) 575-8699 before 3:00 p.m. the business day prior to the requested inspection date.

Authorized By: Environmental Health Specialist



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Conventional OWTS Application Review

System #: ON0050858 Permit Type: New

Property Address: 10826 Clove Hitch Court Colorado Springs, CO 80908

Approvals Rcvd:

<u>DSD</u>: 5.17.2021

Floodplain: FP on property: NO Proposed system location outside FP: NA

Specialist: Kat McGarvy Date of Review: 5.28.2021

New/Major Repair/Modification: Site Evaluation date: 5.20.2021

Soil Report: Report date: 3.5.2021 Engineer: GeoQuest Job #: 21-0204

Soil Type: 2A LTAR: 0.5

<u>Limiting Layer</u>: <u>Groundwater</u>: none <u>Bedrock</u>: none <u>Soil Type</u>: none

Design Document: Design signed: 5.19.2021

Engineer drawn: JS Homes Inc Job # 10826 Clove Hitch Court

Bedrooms: 5 Design Flow: 600

Minimum Requirements: Tank Capacity: Main: 1500

Pump Specs: Tank Capacity: NA Gal/dose: NA

STA:

Distribution: Gravity Add. Components: Distribution box

Media: Chambers Configuration: Trench Depth of Installation: <48"

STA Capacity:

<u>Sq. Ft. (10-1)</u>: 1200 <u>Sq. Ft. (10-2)</u>: 1200 <u>Sq. Ft. (10-3)</u>: 840 <u>Sq. Ft. (with</u>

DV): NA

Q4 chambers: 70 Arc 36 chambers: 56

Comments: N/A

EH Specialist: Chelsea Stevens **Approved Date**: 5.24.2021



Revised 2019 approved fee (12.19.2018)

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APPLICATION FOR AN ON-SITE WASTEWATER TREATMENT SYSTEM PERMIT

Property Information: Property Address:	City:	Zin·
Legal Description:		
Tax Schedule #:		ize:
Is the property gated: Yes No Please provi		
	_	sidential Commercial
Water Supply: Well Cistern Municipal	•	
Owner Information: Primary Contact		
Owner:	Daytime Phone:	
Owners Mailing Address:		
Email Address:	Fax #	! :
General Contractor:	Phone/Email:	
OWTS Installer Information: System Installer: Email Address: All engineer-design systems <u>must</u> b	Daytime Phone: Licensed inst	aller: Tier 1 Tier 2
CURRENT FEES AS APPROVED BY THE EI PASO COUNTY BOARD OF HEALTH All Payments are due at the time of application submittal; by cash, check or major credit card (Visa / MC) New Permit: \$750.00 (EPCPH Charge) + \$147.00 (EPC Planning Dept. Surcharge) + \$23.00 (CDPHE Surcharge) = \$920.00 Modification Permit: \$675.00 (EPCPH Charge) + \$23.00 (CDPHE Surcharge) = \$698.00 Major Repair Permit: \$535.00 (EPCPH Charge) + \$23.00 (CDPHE Surcharge) = \$558.00 Minor Repair Permit: \$245.00 (EPCPH Charge) + \$23.00 (CDPHE Surcharge) = \$268.00 Permits expire one year from date of issuance, unless otherwise noted		
REQUIRED: Provide a complete written scop	e of work to be perform	ed on the property.
 The following documents MUST be included with your application. A soils report: including at least 2 soil profile excavation pits, in accordance with section 8.5 A-F of OWTS regulations A clear and legible design document: including the proposed and alternate locations, profile pit locations with respect to system layout, labeled with all setbacks to pertinent structures and features in table 7-1. Provide directions to property, from a main highway, on the backside of application. 		
Failure to provide the above listed documents n	nay result in denial of the perm	nit application
I certify that the information provided on this application is in compliance with the Cl Board of Health. I also authorize the assigned representative of El Paso County Publi the issuance of a permit.	-	-
Applicants Signature:	Date	e:

•	Property address or lot number must be clearly marked and visible from the road. Profile excavation test pit and/or soil profile holes must be clearly marked Proposed and alternate soil treatment areas must be protected from compaction and disturbance Locked gates require the gate code or lock combination be provided on front of application Please provide directions to the property from a main highway, by text or picture, below.
	Failure to comply with the above information may result in an additional charge for a return trip.

Completed application includes:

EPCPH will only accept application if all required components are submitted at time of application submittal.

Completed Application Professional Engineer (P.E.) stamped soils report Calculation/design worksheet Clear legible 8.5'x11' Design document



6825 Silver Ponds Heights #101 Colorado Springs, CO 80908 (719) 481-4560

PROFILE PIT EVALUATION

FOR

JS HOMES, INC.

JOB #21-0204

Lot #6 0 Clove Hitch Court, El Paso County, Colorado

Sincerely,

Charles E. Milligan, P.E.



PROFILE PIT FINDINGS

Enclosed are the results of the profile pit for the septic system to be installed at Lot #6, 0 Clove Hitch Court, El Paso County, Colorado. The location of the test pits was determined by JS Homes, Inc. The residence will not be on a public water system. The number of bedrooms in the design for the residence is unknown. Due to the natural slope of the property, the entire system will feed to the north at approximately 7% at least 20 feet. All applicable portions of the El Paso County Public Health Department Onsite Wastewater Treatment System Regulations (OWTS) must be complied with for the installation of the treatment system.

The inspection was performed on February 15, 2021, in accordance with Table 10-1 of the E.P.C.P.H. OWTS Regulations.

Soil Profile #1:

0 to 8" - Topsoil - loam, organic composition.

8" to 8" - USDA soil texture sandy loam, soil type 2A, structure shape granular, structure grade 1, non-cemented, LTAR 0.50, strong brown in color, 7.5 YR 5/6.

Soil Profile #2:

0 to 8" - Topsoil - loam, organic composition.

8" to 8" - USDA soil texture sandy loam, soil type 2A, structure shape granular, structure grade 1, non-cemented, LTAR 0.50, brownish yellow in color, 10 YR 6/6.

Groundwater was not encountered during the inspection. Bedrock was not encountered during the inspection. No known wells were observed within 100 feet of the proposed system. All setbacks shall conform to county regulations.

Due to encountering USDA soil type 2A, the septic system to be installed on this site need not be designed by a Colorado Licensed Engineer. A conventional septic system is approved for this site. Based on the observed conditions, we feel a design based on an LTAR of 0.50 GPD/SF (USDA soil type 2A, treatment soil, treatment level 1) is reasonable. Maximum depth of the installation shall not be deeper than 4 below the existing grade.

If during construction of the field itself, subsurface conditions change considerably or if the location of the proposed field changes, this office shall be notified to determine whether the conditions are adequate for the system as designed or whether a new system needs to be designed.

Weather conditions at the time of the test consisted of clear skies with cold temperatures.

PROFILE PIT LOG - Profile Pit #1 TYPE WATER % DEPTH (in JOB#: 21-0204 DATE EVALUATED: 15 Feb 2021 EQUIPMENT USED: Mini-excavator 0-8" TOPSOIL Loam Organic Composition 8"-8' Sand Fine-coarse Grained USDA Soil Texture: Sandy Loam 2A Moderate Density USDA Soil Type: 2A Low-moderate Moisture Content USDA Structure Shape: Granular Low-moderate Clay Content USDA Structure Grade: 1 Low Cohesion Cementation Class: Non-cemented Low Plasticity Long Term Acceptance Rate (LTAR, Treatment Level 1): 0.50 Strong Brown Color 7.5YR 5/6

LTAR to be Used for OWTS Sizing: 0.50GPD/SF (USDA Type 2A, Treatment soil, Treatment Level 1)

Depth to Groundwater (Permanent or Seasonal): Not Encountered

Depth to Bedrock and Type: Not Encountered

Depth to Proposed Infiltrative Surface from Ground Surface: Unknown (Maximum 4 ft Below Existing Ground Surface)
Soil Treatment Area Slope and Direction: North @7%

Note: See El Paso County Board of Health Regulation Chapter 8: On-Site Wastewater Treatments Systems (OWTS) Regulations for Additional Information. Refer to Table 10-1 for Corresponding LTAR if Treatment Level 2, 2N, 3, or 3N will be Implemented in the Design of the OWTS. System Sizing Depends on a Number of Factors (i.e. LTAR, # of Bedrooms, Type of Soil Treatment Area (STA), Method of Transfer to the STA (Gravity, Dosed, or Pressure Dosed), and Type of Storage / Distribution Media Used in the STA)

Project: 21-0204	Project Name and Address
Sheet: 1 of 2	Project Name and Address
Date: 24 Feb 2021	JS Homes, Inc
	0 Clove Hitch Court
Scale: 1/4" = 1'	Lot 6 El Paso County, Colorado
Drawn by: mtj	3. 44.4.4.4
Checked by: cem	

GEOQUEST, LLC.	
6825 SILVER PONDS HEIGHTS SUITE 101 COLORADO SPRINGS, CO 80908	CR 5.24-21
OFFICE: (719) 481-4560 FAX: (719) 481-9204	

PROFILE PIT LOG - Profile Pit #2 % DEPTH (in WATER JOB#: 21-0204 SOIL DATE EVALUATED: 15 Feb 2021 **EQUIPMENT USED: Mini-excavator** 0-8" TOPSOIL Loam Organic Composition 8"-81 Sand Fine-coarse Grained USDA Soil Texture: Sandy Loam 2A Moderate Density USDA Soil Type: 2A Low-moderate Moisture Content USDA Structure Shape: Granular Low-moderate Clay Content USDA Structure Grade: 1 Low Cohesion Cementation Class: Non-cemented Low Plasticity Long Term Acceptance Rate (LTAR, Treatment Level 1): 0.50 Brownish Yellow Color 10YR 6/6 LTAR to be Used for OWTS Sizing: 0.50GPD/SF (USDA Type 2A, Treatment soil, Treatment Level 1) Depth to Groundwater (Permanent or Seasonal): Not Encountered Depth to Bedrock and Type: Not Encountered

Depth to Proposed Infiltrative Surface from Ground Surface: Unknown (Maximum 4 ft Below Existing Ground Surface)

Soil Treatment Area Slope and Direction: North @7%

Note: See El Paso County Board of Health Regulation Chapter 8: On-Site Wastewater Treatments Systems (OWTS) Regulations for Additional Information. Refer to Table 10-1 for Corresponding LTAR if Treatment Level 2, 2N, 3, or 3N will be Implemented in the Design of the OWTS. System Sizing Depends on a Number of Factors (i.e. LTAR, # of Bedrooms, Type of Soil Treatment Area (STA), Method of Transfer to the STA (Gravity, Dosed, or Pressure Dosed), and Type of Storage / Distribution Media Used in the STA)

Project: 21-0204	Project Name and Address
Sheet: 2 of 2	Project Name and Address
Date: 24 Feb 2021	JS Homes, Inc
	0 Clove Hitch Court Lot 6
Scale: 1/4" = 1'	El Paso County, Colorado
Drawn by: mtj	-
Checked by: cem	

GEOQUEST, LLC.	
6825 SILVER PONDS HEIGHTS SUITE 101 COLORADO SPRINGS, CO 80908	CR 5.24-21
OFFICE: (719) 481-4560 FAX: (719) 481-9204	

GEOQUEST LLC SITE MAP

Lot 6
0 Clove Hitch Court
El Paso County
Colorado
Job #21-0204

Profile Pit #2

Profile Pit #1

Southwest Lot Corner

Location from Southwest Lot Corner to Profile Pit #1:

N. 30' E. - 316'

Location from Profile Pit #1 to Profile Pit #2:

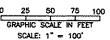
N. 53° E. - 79'

GPS Coordinates:

Pit 1; N. 39° 04' 24.33" W. 104° 37' 30.70"

Pit 2; N. 39° 04' 24.80" W. 104° 37' 29.89"





5.24-21



Wastewater Flow

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CONVENTIONAL (NON-ENGINEERED) ON-SITE WASTEWATER TREATMENT SYSTEM (OWTS) DESIGN WORKSHEET (MUST BE COMPLETED FOR ALL CONVENTIONAL DESIGNS)

Total number of bedrooms:	5
Design wastewater flow (gallons/day) from Table 6-1:	600
Septic Tank	
Septic tank size (in gallons) from Table 9-1:	1500
Tank burial depth (from top of tank, in inches) (NOTE: Shall not exceed 48 inch depth by regulation)	48"
Will groundwater affect tank?	Yes No
Will an effluent screen be installed? (Note: Effluent screens are required for all new systems or repla	Yes No ☑ □ cement of the septic tank)
Soil Treatment Area (STA)	
Long Term Acceptance Rate (LTAR) From Table 10-1:	
Unadjusted STA size (see 8.10.C.4) – show calculation:	600
Design flow (gallons per day)	.50
LTAR (gallons/day/sq.ft.) =	1200
Depth of STA (cannot exceed 48"):	
48" Trenche	es are preferred. If bed system is selected,
the selection reason must be specified:	
□ Bed Bed	OR REPAIRS ONLY (check which applies): ☐ Wide Bed (more than 12 feet wide) ☐ Deep Gravel Trenches ☐ Seepage Pit ☐ None of the Above

Method of Septic Tank Effluent Application (check which applies):		
Ď Gravity		
☐ Pump to gravity		
☐ Dispersed by siphon		
Type of Distribution Media (check which applies):		
☐ Rock		
☐ Tire chips		
☐ Chambers		
☐ Other	Other type	
Adjusted STA size, using factors from Table 10-2 & 10-3 (show control of the factors from Table 10-2 & 10-3 (show control	alculation, with adjustment factors utilized):	
2 Rows of 18 Chambers		
2 Rows of 17 Chambers		
A scale drawing shall be provided with each design document	t (see attached example design documents), showing:	
 Layout of entire OWTS, including the S 	STA configuration (trench, bed, etc.)	
 Dimensions of the trench(s) or the bed 	d(s)	
	distances to all applicable physical features in Table 7-1	
	ns relative to a designated benchmark)	
•	avation(s), or percolation test holes, if required	
Location of the alternate STA siteNorth direction arrow		
 North direction arrow Graphic scale (1"= 20', 1"= 30', etc.) 		
 Contours, OR slope direction and % slope 	ope	
contours, on stope uncertain and 70 sto	,,,,	
Note: It is recommended that the design document is complete		
complete, or alter design documents. Contact EPCPH with any	y questions.	
The proposed STA sites must be protected from disturbance, other effective methods.	compaction, or other damage by staking, fencing, posting or	
Certification		
Mar Ce Cl	JS Homes Inc	
Signature	Company Name	
Jeff Cole	12781 Mt Harvard Dr, Peyton, 8083	
Print Name	Address	
5/9/21	719-320-4805	
Dat 10826 Clove Hitch Ct	Phone	
Co Springs, 80908	jeff@jshomesinc.com	
Property Address	Email	

(See attached Tables and Design Document examples)

SEPTIC DESIGN

10826 CLOVE HITCH COURT LOT 6, WINSOME FILING NO. 1 EL PASO COUNTY, COLORADO

Primary STA Location

Provide 2 rows with 18 chambers each (Rows 1 and 4) Provide 2 rows with 17 chambers each (Rows 2 and 3) Provide 6' min. undisturbed ground between rows Provide 4" inspection riser ports at each row end Install no deeper than 48" below existing grade Grade for drainage around STA Seed for Native Grasses. 5 89°41'23" E 168.64 BUILDER JS HOMES, INC. 12781 MOUNT HARVARD DR. PEYTON COLORADO, 80831 ADDRESS: 10826 CLOVE HITCH COURT COLORADO SPRINGS, COLORADO 80908 Test Hole #2 Distribution Box with Speed Levelers Install Riser to Grade for Future LEGAL DESCRIPTION: Access LOT 6, WINSOME FILING NO. 1 EL PASO COUNTY, COLORADO Test Hole #1 TAX SCHEDULE NUMBER: 4" PVC Solid pipe from house to septic tank with cleanout within 5' of house 51240-01-006 Maintain 2% slope on pipe feeding tank LOT AREA: 2.84 ACRES, MORE OR LESS. BUILDING PLAN NO: CUSTOM 438.45' N 00*14*17* E ZONING: RR-2.5, RR-5 CC PROPOSED BUILDING FOOTPRINT: %%uMAXIMUM BUILDING HEIGHT: 10' UTILITY AND DRAINAGE EASEME L=64.45' R=60.00 C.A.=61°32'33" 1500 Gal Pre-Cast Tank: Inlet approx 4" below final grade ChB=531°16'51"W Risers to grade with secure access cover, approx 3" above finished grade Well to maintain min 100' from STA Excact loccation to be Field Deteremined. 5.24-21



Required tank capacity - 1500 gallons

Required STA area

600 gpd/.50 gpd per sf x .7 (chambers) = 840 sf

840/12 (chamber sf) = 70 chambers

Designed infiltration area: 2 runs with 18 chambers each, 2 runs with 17 chambers each Each run approx 72' long





May 9th, 2021

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