
SPRING BRANCH TRANSFER STATION

MSW PERMIT No. 2419
HILL COUNTRY WASTE SOLUTIONS LLC (OPERATOR)
SPRING BRANCH, COMAL COUNTY, TEXAS

PART III: SITE DEVELOPMENT PLAN

MAY, 2023
(REVISED JUNE, 2023)
(REVISED AUGUST, 2023)
(REVISED OCTOBER, 2023)
(REVISED MAY, 2025)
(REVISED OCTOBER, 2025)

Prepared By



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SPRING BRANCH TRANSFER STATION APPLICATION PART III

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PART III**

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10/31/25

SECTION 1: GENERAL FACILITY DESIGN [30 TAC §330.63(b)]

The Spring Branch Transfer Station is designed to accommodate a daily maximum limit of waste acceptance of 1,500 tons of solid waste per day. At no time will more than 900 tons of solid waste be stored at the facility overnight. The following sections describe the general design aspects of the facility as applicable:

- 1.1 FACILITY ACCESS [30 TAC §330.63(b)(1)]** - The transfer station will be enclosed by intruder-resistant fencing. Access to the facility is via a driveway to U.S. Highway 281 N and this entrance will be equipped with a gate. The gate will be monitored during facility operations to prevent unauthorized vehicles and pedestrian traffic from accessing the facility. The gate will be locked on nights, holidays, or any other time the facility will be unattended by Hill Country Waste Solutions LLC personnel. Facility personnel will inspect the integrity of the fences, gate, and locks on a daily basis on the days when the facility is in operation. Any access control breaches will be repaired as needed.
- 1.2 WASTE MOVEMENT [30 TAC §330.63(b)(2)]** - The following sections describe the generalized process design and working plan of the overall facility:
 - 1.2.1 FLOW DIAGRAM [30 TAC §330.63(b)(2)(A)]** - The figure in Attachment III-A shows a flow diagram indicating storage and processing sequences for the solid waste received.
 - 1.2.2 SCHEMATICS [30 TAC §330.63(b)(2)(B)]** - The figure in Attachment III-B contains a schematic showing the various stages of collection and processing of solid wastes received at the facility. The figures in Attachment III-C showing the site layout plan also provide details regarding these activities.

With regard to traffic flow patterns of the vehicular traffic at the facility, it should be noted that traffic will enter the facility via the entrance driveway. After passing through the security gate, traffic will be directed to the gravel surface. This area will provide ample space for turn-around areas and parking for employees and visitors. The transfer trucks owned by Hill Country Waste Solutions LLC will also be parked in this area when they are not in operation. The Hill Country Waste Solutions LLC collection trucks will be parked at a separate facility when they are not in operation.

In the normal course of operations the collection trucks will collect waste along their routes in Comal County and adjacent areas. Upon completion of the routes, the collection trucks will return to the facility and enter the transfer building and deposit their waste on the working floor. The trucks will then exit the building.

Transfer trucks will drive down the ramp on the west side of the transfer building and stop in the loading area. The solid waste will then be transferred from the working floor to the transfer truck's walking floor trailer. When the trailer is full, the transfer truck will transport it to a TCEQ approved landfill where the waste will be deposited for final disposal or be tarped and staged in the transfer trailer parking area. Note that the transfer trailer parking area is separate from the transfer station building.

Hill Country Waste Solutions LLC also rents 20, 30, and 40 cubic yard roll-off boxes to various clients. When those bins are full, they will be collected and brought to the transfer building where the waste will be transferred to the working floor, thence to the transfer trucks as described above. The now-empty bin will then be stored until it is cycled back into service again.

- 1.2.3 VENTILATION AND ODOR CONTROL MEASURES[30 TAC §330.63(b)(2)(c)]** - The transfer station will include a covered transfer building. The working floor will be covered by a roof to protect it from rainfall. However, this building will not be a completely enclosed structure, rather it will be equipped with three walls with the front of the building opening onto 8" thick concrete pavement that provides for operational access of vehicles to the facility. The open front will

ensure that all working areas within the building are well ventilated. Please note that the open front entrances will also be equipped with aircraft hangar doors that will be closed at night (or when the transfer building is otherwise not in use) and locked to prevent access by unauthorized persons. The health and safety of the operator and the individuals unloading at the station are not expected to be adversely impacted due to lack of proper ventilation. As noted previously, the trailers utilized within the transfer building can also be covered in order to contain odors as needed. The doors will also be closed should operations be suspended due to nuisance odors and all employees and public users will be evacuated from the building until the situation can be remedied. Wash-water and other contaminated water will be directed via drain to a sump, thence pumped to above-ground storage tank located outside of the building. The above-ground storage tank will contain any odors from the wash-water and contaminated water that they store. The above-ground storage tanks will be emptied on an as-needed basis and their contents transported to a TCEQ approved facility for final disposal.

The design capacity of the Spring Branch Transfer Station will not be exceeded during operation. Solid waste accumulated at the facility will be processed within such time as will preclude the creation of odors, insect breeding, or harborage of other vectors. If such accumulations occur, additional solid waste will not be received until the adverse conditions are abated. In no event will solid waste be stored at the transfer station longer than 72 hours prior to transport off-site. Note that all of the landfills in the area are closed on Sundays and on select holidays, so 72 hours of storage would allow for those times when the landfills are closed on Sunday with a holiday on the following Monday. Under normal circumstances the longest time that municipal solid waste would be stored on-site would typically be from Friday afternoon to Monday morning (around 60 hours). At no time will the amount of stored waste exceed the ultimate capacity of the facility; it is anticipated that the facility will not exceed 900 tons of storage overnight. Each walking floor trailer will be filled and dispatched to a TCEQ approved landfill as rapidly as possible.

If nuisance odors are found to be passing the facility boundary, the operator may suspend operations until the nuisance is abated or immediately take action to abate the nuisance.

The facility will restrict additional solid waste receipt if a significant work stoppage should occur due to a mechanical breakdown or other causes. Under such circumstances, incoming solid waste will be diverted to an approved backup storage, processing, or disposal facility. If the work stoppage is anticipated to last long enough to create objectionable odors, insect breeding, or harborage of vectors, steps will be taken to remove the accumulated solid waste from the facility to an approved backup storage, processing, or disposal facility within 24 hours.

A secondary procedure will be put in place should the transfer station become inoperable for more than 24 hours. This procedure will consist of the collection trucks hauling their collected solid waste directly to TCEQ landfills for final disposal. This procedure will remain in operation until the transfer station is returned to operation.

- 1.2.4 GENERALIZED CONSTRUCTION DETAILS [30 TAC §330.63(b)(2)(D) and (E)]** - The facility and its units are shown on the figure in Attachment III-C. The facility will be accessible from Highway 281 via the entrance driveway. The facility will be equipped with a covered transfer building that is constructed with a loading area. The loading area of the transfer building will be accessed by a ramp down from the exterior driveway. Transfer trucks with empty collection walking floor trailers will be driven down the ramp to the loading area. The working floor of the transfer building will be accessible from the exterior access drives and from the concrete pavement adjacent to the building. Collection vehicles will be able to enter the transfer building and deposit their loads onto the working floor, from which point the solid waste will be transferred to the trailer in the loading dock's pit area. When full, those trailers will be removed by transfer truck and delivered to a landfill for final disposal. This facility will be partially enclosed to protect it from rainfall and also equipped with a floor drain (equipped with pump) to accommodate wash water and direct it to the above ground contaminated water holding tank.

In addition to those areas, the facility will also be equipped with an modular office building, transfer trailer parking building, and scale. Note that the transfer trailer parking area is separate from the transfer station building. The site will be screened by fencing and natural vegetation.

- 1.2.5 CONTAINMENT DIKES OR WALLS [30 TAC §330.63(b)(2)(F)]** - All working areas will be located within the transfer building which will consist of a covered metal building that is enclosed on three sides. No berms will be required to protect the working areas from rainfall because it will be located under the roof of the transfer building. The building will not be subject to runoff because the surrounding ground will be contoured so as to slope away from the building. The building entry will be equipped with roll-up doors that can be closed if needed to shield the entries from rainfall that might be blown in by the wind.

Both the working floor and the loading pit area located on the southern side of the building (accessed by ramp) will be slightly sloped to direct wash water or other liquids to a drain (which is equipped with a pump); it will then be pumped from the drain to an above-ground contaminated water holding tank. The above ground contaminated water holding tank will have a closed top and a maximum storage volume of 1,500 gallons. The location of the holding tank is indicated on the Facility Layout in Attachment III-C. The holding tank will be equipped with a concrete berm to provide secondary containment should the tank wall ever be compromised. The berm will be sized to provide enough storage volume to control and contain a worst-case spill or release from that unit. In the unlikely event that a breach of both the tank and the berm occurs, then the unit will be repaired or replaced and all affected areas will be remediated by removing contaminated soil and transporting it to a TCEQ approved facility for disposal and then replacing it with clean backfill.

The site will be graded so that stormwater runoff is directed away from the transfer building and ramped loading area. In addition, the entry ways to the transfer building will be equipped with a roll-over curb to prevent runoff from entering these areas and to prevent any wash water or other contaminated water from flowing out of these areas. Instead, the working floor and loading area will be sloped so as to direct wash water toward the drains, thence pumped to the holding tank. As indicated on the facility layout, roll over curbs will be also provided at the bottom of the ramp to serve as a physical barrier to prevent any rainfall shed by the ramp from entering the pit area; slot drains will be provided in front of the roll over curb to collect uncontaminated rainfall from the ramp and direct it into a storm sewer system and away from the facility.

- 1.2.6 STORAGE OF GREASE, OIL, AND SLUDGE [30 TAC §330.63(b)(2)(G)]** - An area will be set aside at the Spring Branch Transfer Station for the storage of treated municipal sewage sludge. This area is described as follows:

- Sludge Storage Area - A portion of the Transfer Station building will be set aside and designated as a sludge storage area. Treated and de-watered municipal sewage sludge from local wastewater treatment plants will be stored there in its own bin, separate from the rest of the solid waste at the facility. When full, the contents of the container will be loaded into an end dump and then will be transported to a TCEQ permitted beneficial use site for disposal. It is anticipated that this sludge will not be stored on-site for longer than 72 hours.

No waste grease or oil will be stored at this facility.

- 1.2.7 DISPOSITION OF EFFLUENT [30 TAC §330.63(b)(2)(H)]** - Wash water and contaminated water generated will be taken to a TCEQ approved facility for treatment and final disposal. All wash water and contaminated water will be directed to the above-ground holding tank, from which it will be removed on an as-needed basis by a licensed hauler.
- 1.2.8 NOISE POLLUTION CONTROL [30 TAC §330.63(b)(2)(I)]** - The adjacent area to the north of the project site is currently occupied by a commercial area; the area to the south of the site

and west of the site is occupied by a sports complex; and the site is occupied on the east by U.S Highway 281. Existing trees and bushes provide limited screening for the facility. The nearest offsite residence is located approximately 1,100 feet southwest of the facility's southern boundary (on the opposite side of Jumbo Evan's Sports Park. In addition, the entire facility will be enclosed and screened by fencing. Transfer operations will be conducted in the transfer building, which is a partially enclosed structure which should limit the amount of noise pollution associated with daily operations at the facility. The screening provided by the walls of the transfer building, fence, and (to a lesser degree) the vegetation at the site is expected to substantially reduce the amount of potential noise pollution at the site. In addition, the nearest residence is located a significant distance away from the actual area of operations which should also aid in alleviating the impact of any potential noise pollution generated as a result of routine operations at the facility.

- 1.3 SANITATION [30 TAC §330.63(b)(3)(A) thru (D)]** - The working floor of the transfer building is designed to facilitate proper cleaning. The potable water at this facility is supplied either from well water or from the Canyon Lake Water Service Company. Both sources are capable of providing the facility with an around-the-clock supply of potable water. The facility will be equipped with several hose bibs to easily facilitate cleaning of all working surfaces and employees will be provided with hand-washing areas at the facility. Cleaning will be accomplished with standard equipment (water hoses, mops, brooms, etc.). The walls and floors in the operating areas are constructed of hard-surfaced materials that can be hosed down and scrubbed as needed. Specifically, the floors will be constructed of concrete and the walls of the building will be metal. These areas are protected from rain by a covering roof and the surrounding external areas will be graded to direct runoff away from the facility. The working floor and loading area will be gently sloped so as to direct wash-water (and any other contaminated water) to the drains, thence pumped to the above-ground holding tank. This holding tank will be emptied on an as-needed basis and hauled to a TCEQ approved facility for treatment and final disposal.

Portable restrooms will be provided at various locations on the facility grounds for use by the public and staff. These will be emptied and maintained on a regular basis. The waste from these portable restrooms will be hauled to a TCEQ approved facility for final disposal.

- 1.4 WATER POLLUTION CONTROL [30 TAC §330.63(b)(4)]** - Wastewater resulting from cleaning and washing will be directed to a drain from which it will be pumped to the above-ground holding tank. The site will be generally graded so that stormwater runoff is directed away from the transfer building and ramped loading area. In addition, the entry ways to the transfer building will be equipped with a roll-over curb to prevent any runoff from entering these areas and to prevent any wash water or other contaminated water from flowing out of these areas. The working floor and loading area will be sloped so as to direct wash water toward the drain. Any rain water that might be incidentally blown in through the building's doors during strong winds that comes into contact with the waste will also be collected and sent to the holding tank.

Roll over curbs will also be provided at the foot of the ramp to serve as a physical barrier to protect the pit area from any rainwater shed by the ramp. Slot drains will be provided before the curb (on the ramp side) to intercept uncontaminated runoff from the ramp and direct it to an on-site storm sewer and away from the transfer building. The pit area will be sloped toward the drain, from which any wash water will be pumped to the above ground contaminated water holding tank.

The holding tank will be emptied on an as-needed basis by vacuum truck (operated by a third-party hauler) and hauled to a TCEQ approved facility for treatment and final disposal. The above ground holding tank will also be equipped with a concrete berm for secondary containment in the event that the tank ever becomes compromised. The bermed area will provided sufficient volume to contain a worst case tank breach.

This facility will be designed to comply with 30 TAC§330.303 which requires that be constructed, maintained, and operated to manage run-on and runoff during the peak discharge of a 25-year rainfall event and must prevent the off-site discharge of waste material.

SECTION 2: SURFACE WATER DRAINAGE [30 TAC §330.63(c)]

In compliance with 30 TAC§330.303 (Surface Water Drainage for Municipal Solid Waste Facilities), the facility will be constructed, maintained, and operated to manage run-on and runoff during the peak discharge of a 25-year rainfall event. The facility is designed and laid out in such a manner as to prevent the off-site discharge of waste and feedstock material, including, but not limited to, in-process and/or processed materials. The design of the facility and the grading of the site will ensure that surface water drainage in and around a facility will be controlled to minimize surface water running onto, into, and off the treatment area.

Operations involving solid waste transfer will be conducted in the covered working floor area in the transfer building which will protect them from rainfall. In addition, the building itself will be located such that the proposed contouring of the site will prevent runoff from entering the facility. In addition, the entry ways to the transfer building will be equipped with a roll-over curb to prevent any runoff from entering these areas and to prevent any wash water or other contaminated water from flowing out of these areas. Any rain water that might be blow into the facility by strong winds that comes into contact with the waste will be collected via the facility drain, then be pumped to the above-ground contaminated water holding tank. This holding tank will be emptied on an as-needed basis and hauled to a TCEQ approved facility for treatment and final disposal.

The pit area of the transfer building will also be covered. The pit area will be sloped such that wash water will be directed to the drain, from which it will then be pumped to the above ground contaminated water holding tank. Roll over curbs will be provided at the foot of the ramps to provide a physical barrier to any rainfall that is shed by the ramp and prevent it from entering the pit area. Slot drains will be provided adjacent to the roll over curb (on the ramp side) to intercept any uncontaminated rainfall shed by the ramps and direct it to an on-site storm sewer system and away from the transfer building.

There will be no runoff directed into the working areas of the facility under normal operating conditions. The site will be graded so that all runoff is directed away from the transfer building. The interior of the transfer building will be constructed so as to direct all wash water generated at the facility (or any other contaminated water) to the drain located in the pit area, thence to the drain line which will direct it to a sump from which it will be pumped into an above-ground holding tank. The tank will be emptied on an as needed basis by a certified third-party hauler. The holding tank will also be equipped with a berm designed to provide secondary containment should the integrity of the holding tank ever become compromised. The berm will be sized to provide sufficient volume to contain a worst-case spill or release from the holding tank. In the unlikely event that a breach of both the tank and the berm occurs, then the unit will be repaired or replaced and all affected areas will be remediated by removing contaminated soil and transporting it to a TCEQ approved facility for disposal and then replacing it with clean backfill.

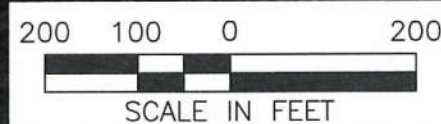
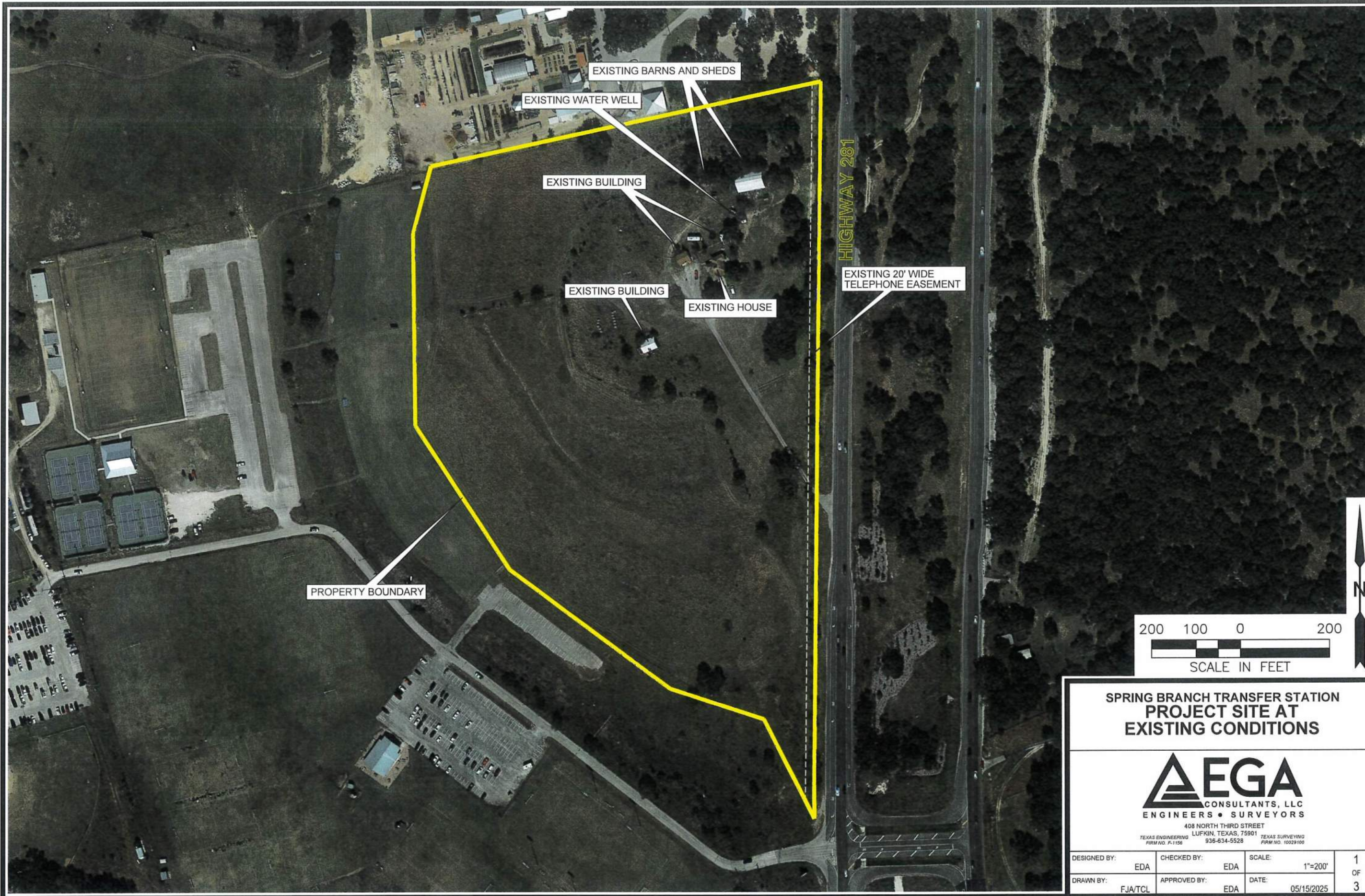
All site improvements will be constructed, maintained, and operated to manage run-on and runoff during the during the peak discharge of the 25-year rainfall event. The improvements will be constructed, maintained and operated to prevent the off-site discharge of waste, in-process, or processed materials. Best management procedures will be utilized during construction to minimize erosion and reduce the potential for sediment to be transported to area streams.

Wash water will be managed in accordance with TAC §330.207 (Contaminated Water Management). No contaminated water is allowed to pond at the transfer station or to run off as surface age. All liquids resulting from the operation of the transfer station will be disposed of in a manner that will not cause surface water or groundwater pollution. Wastewater resulting from cleaning and washing will be directed via drain to the above-ground holding tank. The holding tank will be emptied on an as-needed basis and hauled to a TCEQ approved facility for final disposal. The operator will not discharge contaminated water without specific written authorization.

2.1 DRAINAGE ANALYSIS [30 TAC §330.63(c)(1)] - This requirement appears to be required solely for landfill applications and as such is not applicable for this facility.

2.2 FLOOD CONTROL AND ANALYSIS [30 TAC §330.63(c)(2)] - The attachments of Part II of this application shows relevant portions of the most recent flood map of the area with the Spring Branch

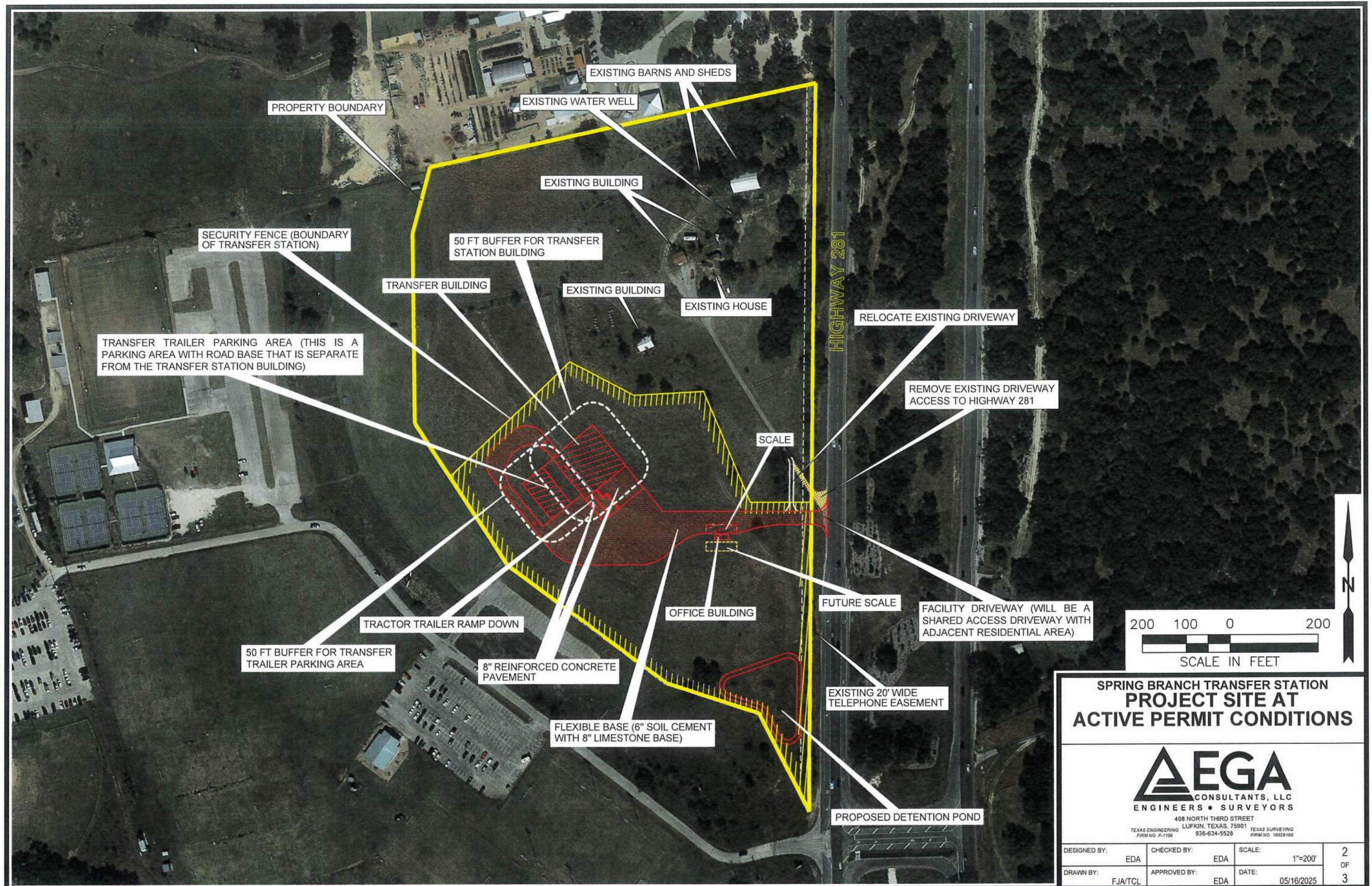
Transfer Station's boundaries superimposed onto it. Based on that information, is not located within the 100-year floodplain.

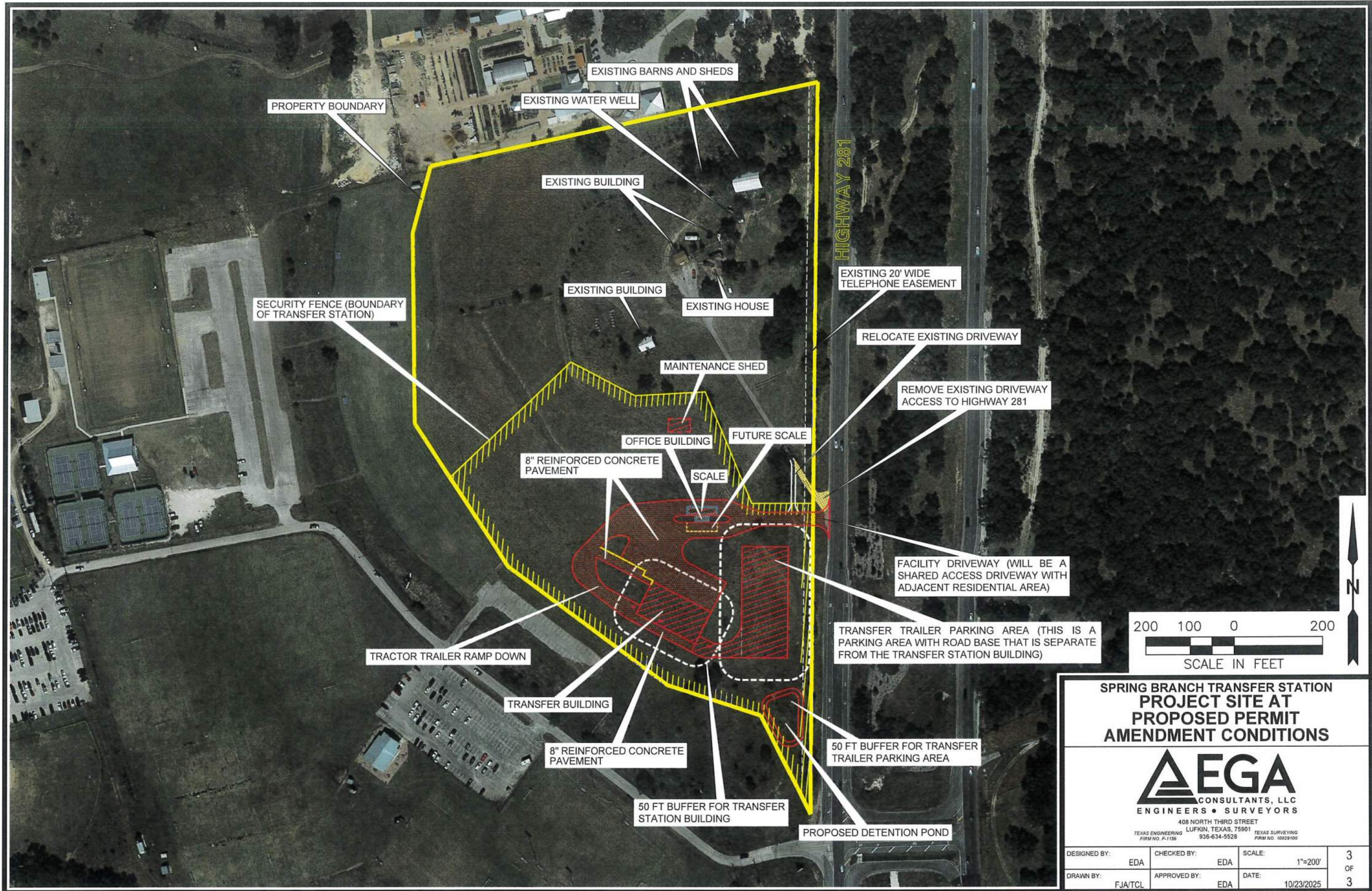


SPRING BRANCH TRANSFER STATION
PROJECT SITE AT
EXISTING CONDITIONS

EGA
CONSULTANTS, LLC
ENGINEERS • SURVEYORS
408 NORTH THIRD STREET
LUFKIN, TEXAS, 75901
TEXAS ENGINEERING FIRM NO. F-1156 936-634-5528 TEXAS SURVEYING FIRM NO. 10029100

DESIGNED BY: EDA	CHECKED BY: EDA	SCALE: 1"=200'	1 OF 3
DRAWN BY: FJA/TCL	APPROVED BY: EDA	DATE: 05/15/2025	





PROPERTY BOUNDARY

EXISTING BARN AND SHEDS

EXISTING WATER WELL

EXISTING BUILDING

EXISTING BUILDING

EXISTING HOUSE

HIGHWAY 281

EXISTING 20' WIDE TELEPHONE EASEMENT

RELOCATE EXISTING DRIVEWAY

REMOVE EXISTING DRIVEWAY ACCESS TO HIGHWAY 281

SECURITY FENCE (BOUNDARY OF TRANSFER STATION)

MAINTENANCE SHED

OFFICE BUILDING

FUTURE SCALE

8" REINFORCED CONCRETE PAVEMENT

SCALE

FACILITY DRIVEWAY (WILL BE A SHARED ACCESS DRIVEWAY WITH ADJACENT RESIDENTIAL AREA)

TRANSFER TRAILER PARKING AREA (THIS IS A PARKING AREA WITH ROAD BASE THAT IS SEPARATE FROM THE TRANSFER STATION BUILDING)

TRACTOR TRAILER RAMP DOWN

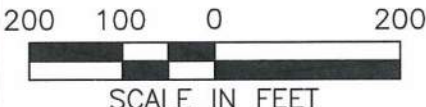
TRANSFER BUILDING

8" REINFORCED CONCRETE PAVEMENT

50 FT BUFFER FOR TRANSFER TRAILER PARKING AREA

50 FT BUFFER FOR TRANSFER STATION BUILDING

PROPOSED DETENTION POND



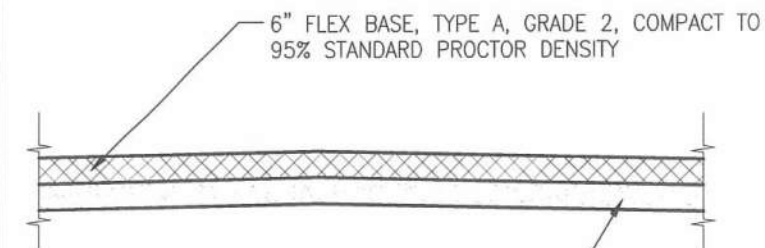
SPRING BRANCH TRANSFER STATION
PROJECT SITE AT
PROPOSED PERMIT
AMENDMENT CONDITIONS



DESIGNED BY:	EDA	CHECKED BY:	EDA	SCALE:	1"=200'	3
DRAWN BY:	FJA/TCL	APPROVED BY:	EDA	DATE:	10/23/2025	OF
						3

SCALE: 1" = 50'

A graphic scale bar with a checkered pattern. The top half is white and the bottom half is black. The bar is divided into segments of 12.5 feet each. The numbers 50, 25, 0, and 5 are placed below the bar, indicating distances in feet.



SCARIFY 6" EX. MATERIAL MIX AND RECOMPACT WITH CEMENT ADDED (16 LBS/SY).

No. 4 REBARS @ 18" O.C.
EACH WAY

6" CONCRETE PAVEMENT (3,500 PSI @28 DAYS, 46% ENTRAINED AIR)

SCARIFY 6" EX. MATERIAL MIX AND RECOMPACT WITH CEMENT
ADDED (16 LBS/SY).

The site plan for Jumbo Evans Park includes the following features and annotations:

- FRESH ASPHALT LIN**: Points to the new proposed asphalt line.
- SIGN JUMBO EVANS PARK**: Points to the location of the park sign.
- OLD ASPHALT LINE**: Points to the existing asphalt line.
- RELOCATE EXISTING ASPHALT DRIVEWAY TO SHARED ACCESS DRIVEWAY**: Points to the area where the driveway is being moved.
- REMOVE ASPHALT DRIVE IN THIS AREA**: Points to the area where the existing asphalt drive is to be removed.

PROPOSED
CONCRETE PAVEMENT

PROPOSED
ROCK DRIVE

PROPOSED
ASPHALT DRIVE

MAINTENANCE SHED
FF = 1078.00

GRADE TO DRAIN

MODULAR SCALE HOUSE
FF = 1078.50

FUTURE SCALE

8" 3500 PSI REINFORCED
CONCRETE PAVEMENT

EXISTING CMP
CULVERT UNDER DRIVE

HEADWALLS

N 90°00'00" E
139.95'

— RELOCATE EXISTING ASPHALT DRIVEWAY
TO SHARED ACCESS DRIVEWAY

REMOVE ASPHALT DRIVE IN THIS AREA

EGA
CONSULTANTS, L.L.C.
ENGINEERS • SURVEYORS

408 NORTH THIRD STREET
LUFKIN, TEXAS, 75901

TEXAS ENGINEERING
EX-156
936-634-5528

TEXAS SURVEYING
FORM NO. 000508

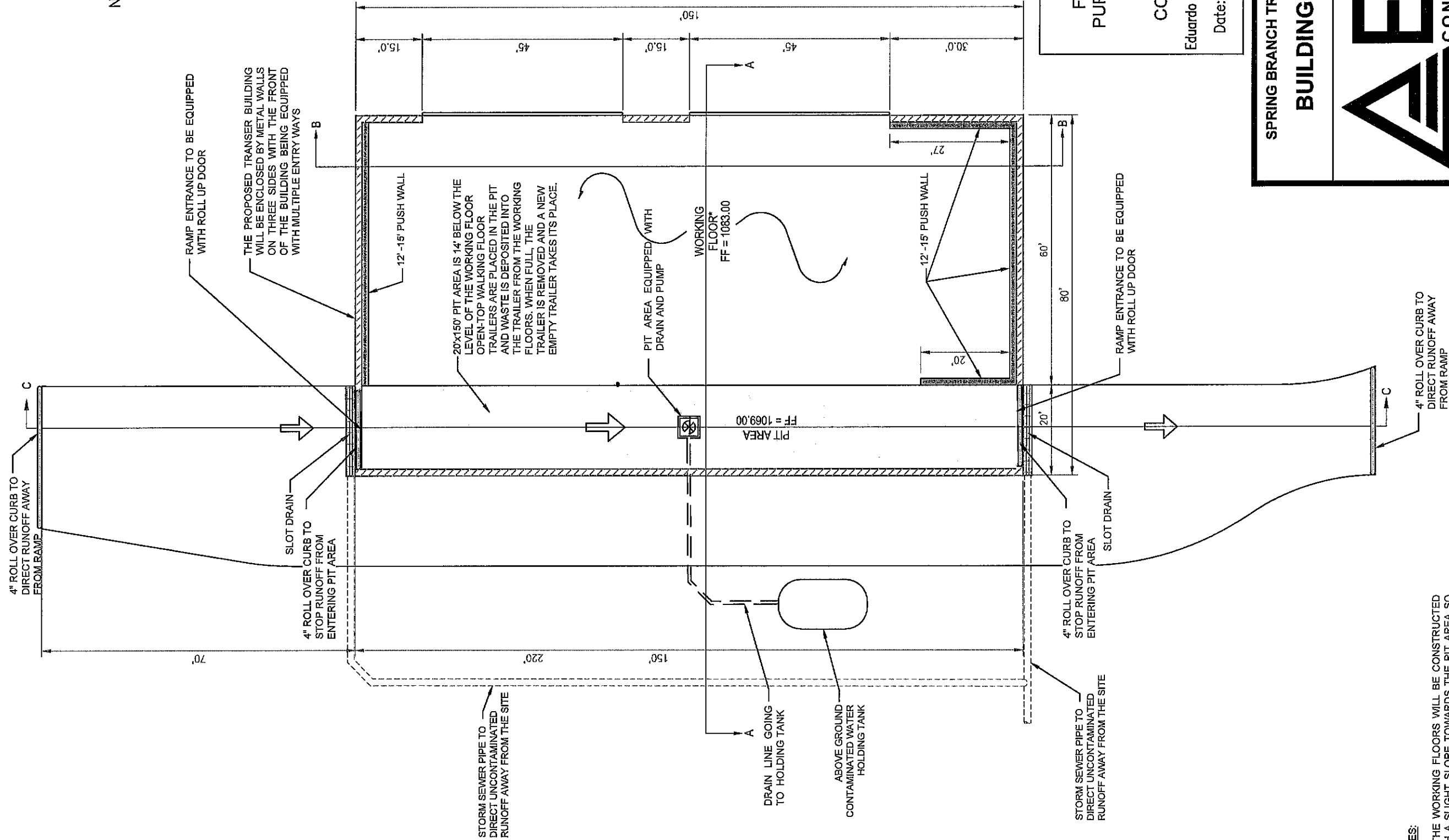
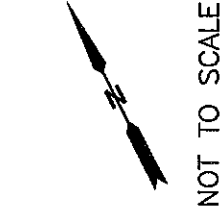
SPRING BRANCH TRANSFER STATION
SPRING BRANCH, TEXAS

SITE GRADING PLAN

Designed By: <u>BS</u>	Drawn By: <u>FJA</u>	Scale: <u>1"=50'</u>
Surveyed By: <u>N/A</u>	Checked By: <u>BS</u>	F.B. No. <u>NA</u>
Calc. and Plotted By: <u>BS</u>	Date: <u>10/23/2025</u>	Scale Name: <u>HCWS</u>

N	Drawing or Job No.
	E

Sheet
2
of
2



NOTES:

- * THE WORKING FLOORS WILL BE CONSTRUCTED WITH A SLIGHT SLOPE TOWARDS THE PIT AREA SO AS TO DIRECT WASH WATER TO THE DRAIN THEREIN.
- ** ALL ENTRYWAYS TO BE EQUIPPED WITH ROLL UP DOORS AND A 4-INCH ROLLOVER CURB TO PREVENT RUNOFF FROM ENTERING THE BUILDING. PROPOSED EXTERIOR GRAVEL SURFACE TO SLOPE AWAY FROM BUILDING.

REFER TO THE ATTACHED SHEETS FOR CROSS SECTIONS A-A', B-B', AND C-C'.

FOR REVIEW
PURPOSES ONLY

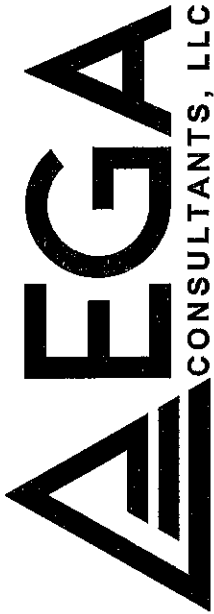
NOT FOR
CONSTRUCTION

Eduardo D. Aguilar, P.E. 116203

Date: 10/31/2025

SPRING BRANCH TRANSFER STATION

BUILDING LAYOUT



ENGINEERS • SURVEYORS

408 NORTH THIRD STREET
LUFKIN, TEXAS, 75901

TEXAS ENGINEERING FIRM NO. F-1156

TEXAS SURVEYING FIRM NO. 10029100

936-634-5528

DESIGNED BY:	EDA	CHECKED BY:	EDA	SCALE:	NONE	1	OF
DRAWN BY:	FJA	APPROVED BY:	EDA	DATE:	10/61/2025	2	

SPRING BRANCH TRANSFER STATION

MSW PERMIT No. 2419
HILL COUNTRY WASTE SOLUTIONS LLC (OPERATOR)
SPRING BRANCH, COMAL COUNTY, TEXAS

PART III: SITE DEVELOPMENT PLAN

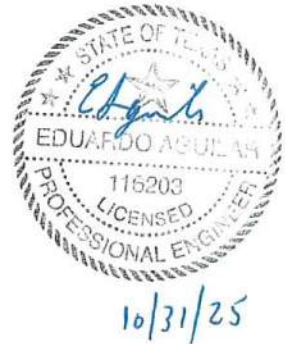
MAY, 2023
(REVISED JUNE, 2023)
(REVISED AUGUST, 2023)
(REVISED OCTOBER, 2023)
(REVISED MAY, 2025)
(REVISED OCTOBER, 2025)

Prepared By



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Engineering Registration No. F-1156
Surveying Registration No. 10029100

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PART III**

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SECTION 1: GENERAL FACILITY DESIGN [30 TAC §330.63(b)]

The Spring Branch Transfer Station is designed to accommodate a daily maximum limit of waste acceptance of 1,500 tons of solid waste per day. At no time will more than 900 tons of solid waste be stored at the facility overnight. The following sections describe the general design aspects of the facility as applicable:

1.1 FACILITY ACCESS [30 TAC §330.63(b)(1)] - The transfer station will be enclosed by intruder-resistant fencing. Access to the facility is via a driveway to U.S. Highway 281 N and this entrance will be equipped with a gate. The gate will be monitored during facility operations to prevent unauthorized vehicles and pedestrian traffic from accessing the facility. The gate will be locked on nights, holidays, or any other time the facility will be unattended by Hill Country Waste Solutions LLC personnel. Facility personnel will inspect the integrity of the fences, gate, and locks on a daily basis on the days when the facility is in operation. Any access control breaches will be repaired as needed.

1.2 WASTE MOVEMENT [30 TAC §330.63(b)(2)] - The following sections describe the generalized process design and working plan of the overall facility:

1.2.1 FLOW DIAGRAM [30 TAC §330.63(b)(2)(A)] - The figure in Attachment III-A shows a flow diagram indicating storage and processing sequences for the solid waste received.

1.2.2 SCHEMATICS [30 TAC §330.63(b)(2)(B)] - The figure in Attachment III-B contains a schematic showing the various stages of collection and processing of solid wastes received at the facility. The figures in Attachment III-C showing the site layout plan also provide details regarding these activities.

With regard to traffic flow patterns of the vehicular traffic at the facility, it should be noted that traffic will enter the facility via the entrance driveway. After passing through the security gate, traffic will be directed to the gravel surface. This area will provide ample space for turn-around areas and parking for employees and visitors. The transfer trucks owned by Hill Country Waste Solutions LLC will also be parked in this area when they are not in operation. The Hill Country Waste Solutions LLC collection trucks will be parked at a separate facility when they are not in operation.

In the normal course of operations the collection trucks will collect waste along their routes in Comal County and adjacent areas. Upon completion of the routes, the collection trucks will return to the facility and enter the transfer building and deposit their waste on the working floor. The trucks will then exit the building.

Transfer trucks will drive down the ramp on the **south west** side of the transfer building and stop in the loading area. The solid waste will then be transferred from the working floor to the transfer truck's walking floor trailer. When the trailer is full, the transfer truck will transport it to a TCEQ approved landfill where the waste will be deposited for final disposal or be tarped and staged in the transfer trailer parking area. Note that the transfer trailer parking area is separate from the transfer station building.

Hill Country Waste Solutions LLC also rents 20, 30, and 40 cubic yard roll-off boxes to various clients. When those bins are full, they will be collected and brought to the transfer building where the waste will be transferred to the working floor, thence to the transfer trucks as described above. The now-empty bin will then be stored until it is cycled back into service again.

1.2.3 VENTILATION AND ODOR CONTROL MEASURES[30 TAC §330.63(b)(2)(c)] - The transfer station will include a covered transfer building. The working floor will be covered by a roof to protect it from rainfall. However, this building will not be a completely enclosed structure, rather it will be equipped with three walls with the front of the building opening onto 8" thick concrete pavement that provides for operational access of vehicles to the facility. The open front will

ensure that all working areas within the building are well ventilated. Please note that the open front entrances will also be equipped with ~~roll-up doors~~ aircraft hangar doors that will be closed at night (or when the transfer building is otherwise not in use) and locked to prevent access by unauthorized persons. The health and safety of the operator and the individuals unloading at the station are not expected to be adversely impacted due to lack of proper ventilation. As noted previously, the trailers utilized within the transfer building can also be covered in order to contain odors as needed. The ~~roll-up doors~~ doors will also be closed should operations be suspended due to nuisance odors and all employees and public users will be evacuated from the building until the situation can be remedied. Wash-water and other contaminated water will be directed via drain to a sump, thence pumped to above-ground storage tank located outside of the building. The above-ground storage tank will contain any odors from the wash-water and contaminated water that they store. The above-ground storage tanks will be emptied on an as-needed basis and their contents transported to a TCEQ approved facility for final disposal.

The design capacity of the Spring Branch Transfer Station will not be exceeded during operation. Solid waste accumulated at the facility will be processed within such time as will preclude the creation of odors, insect breeding, or harborage of other vectors. If such accumulations occur, additional solid waste will not be received until the adverse conditions are abated. In no event will solid waste be stored at the transfer station longer than 72 hours prior to transport off-site. Note that all of the landfills in the area are closed on Sundays and on select holidays, so 72 hours of storage would allow for those times when the landfills are closed on Sunday with a holiday on the following Monday. Under normal circumstances the longest time that municipal solid waste would be stored on-site would typically be from Friday afternoon to Monday morning (around 60 hours). At no time will the amount of stored waste exceed the ultimate capacity of the facility; it is anticipated that the facility will not exceed 900 tons of storage overnight. Each walking floor trailer will be filled and dispatched to a TCEQ approved landfill as rapidly as possible.

If nuisance odors are found to be passing the facility boundary, the operator may suspend operations until the nuisance is abated or immediately take action to abate the nuisance.

The facility will restrict additional solid waste receipt if a significant work stoppage should occur due to a mechanical breakdown or other causes. Under such circumstances, incoming solid waste will be diverted to an approved backup storage, processing, or disposal facility. If the work stoppage is anticipated to last long enough to create objectionable odors, insect breeding, or harborage of vectors, steps will be taken to remove the accumulated solid waste from the facility to an approved backup storage, processing, or disposal facility within 24 hours.

A secondary procedure will be put in place should the transfer station become inoperable for more than 24 hours. This procedure will consist of the collection trucks hauling their collected solid waste directly to TCEQ landfills for final disposal. This procedure will remain in operation until the transfer station is returned to operation.

- 1.2.4 GENERALIZED CONSTRUCTION DETAILS [30 TAC §330.63(b)(2)(D) and (E)]** - The facility and its units are shown on the figure in Attachment III-C. The facility will be accessible from Highway 281 via the entrance driveway. The facility will be equipped with a covered transfer building that is constructed with a loading area. The loading area of the transfer building will be accessed by a ramp down from the exterior driveway. Transfer trucks with empty collection walking floor trailers will be driven down the ramp to the loading area. The working floor of the transfer building will be accessible from the exterior access drives and from the concrete pavement adjacent to the building. Collection vehicles will be able to enter the transfer building and deposit their loads onto the working floor, from which point the solid waste will be transferred to the trailer in the loading dock's pit area. When full, those trailers will be removed by transfer truck and delivered to a landfill for final disposal. This facility will be partially enclosed to protect it from rainfall and also equipped with a floor drain (equipped with pump) to accommodate wash water and direct it to the above ground contaminated water holding tank.

In addition to those areas, the facility will also be equipped with an modular office building, transfer trailer parking building, and scale. Note that the transfer trailer parking area is separate from the transfer station building. The site will be screened by fencing and natural vegetation.

- 1.2.5 CONTAINMENT DIKES OR WALLS [30 TAC §330.63(b)(2)(F)]** - All working areas will be located within the transfer building which will consist of a covered metal building that is enclosed on three sides. No berms will be required to protect the working areas from rainfall because it will be located under the roof of the transfer building. The building will not be subject to runoff because the surrounding ground will be contoured so as to slope away from the building. The building entry will be equipped with roll-up doors that can be closed if needed to shield the entries from rainfall that might be blown in by the wind.

Both the working floor and the loading pit area located on the southern side of the building (accessed by ramp) will be slightly sloped to direct wash water or other liquids to a drain (which is equipped with a pump); it will then be pumped from the drain to an above-ground contaminated water holding tank. The above ground contaminated water holding tank will have a closed top and a maximum storage volume of 1,500 gallons. The location of the holding tank is indicated on the Facility Layout in Attachment III-C. The holding tank will be equipped with a concrete berm to provide secondary containment should the tank wall ever be compromised. The berm will be sized to provide enough storage volume to control and contain a worst-case spill or release from that unit. In the unlikely event that a breach of both the tank and the berm occurs, then the unit will be repaired or replaced and all affected areas will be remediated by removing contaminated soil and transporting it to a TCEQ approved facility for disposal and then replacing it with clean backfill.

The site will be graded so that stormwater runoff is directed away from the transfer building and ramped loading area. In addition, the entry ways to the transfer building will be equipped with a roll-over curb to prevent runoff from entering these areas and to prevent any wash water or other contaminated water from flowing out of these areas. Instead, the working floor and loading area will be sloped so as to direct wash water toward the drains, thence pumped to the holding tank. As indicated on the facility layout, roll over curbs will be also provided at the bottom of the ramp to serve as a physical barrier to prevent any rainfall shed by the ramp from entering the pit area; slot drains will be provided in front of the roll over curb to collect uncontaminated rainfall from the ramp and direct it into a storm sewer system and away from the facility.

- 1.2.6 STORAGE OF GREASE, OIL, AND SLUDGE [30 TAC §330.63(b)(2)(G)]** - An area will be set aside at the Spring Branch Transfer Station for the storage of treated municipal sewage sludge. This area is described as follows:

- Sludge Storage Area - A portion of the Transfer Station building will be set aside and designated as a sludge storage area. Treated and de-watered municipal sewage sludge from local wastewater treatment plants will be stored there in its own bin, separate from the rest of the solid waste at the facility. When full, the contents of the container will be loaded into an end dump and then will be transported to a TCEQ permitted beneficial use site for disposal. It is anticipated that this sludge will not be stored on-site for longer than 72 hours.

No waste grease or oil will be stored at this facility.

- 1.2.7 DISPOSITION OF EFFLUENT [30 TAC §330.63(b)(2)(H)]** - Wash water and contaminated water generated will be taken to a TCEQ approved facility for treatment and final disposal. All wash water and contaminated water will be directed to the above-ground holding tank, from which it will be removed on an as-needed basis by a licensed hauler.
- 1.2.8 NOISE POLLUTION CONTROL [30 TAC §330.63(b)(2)(I)]** - The adjacent area to the north of the project site is currently occupied by a commercial area; the area to the south of the site

and west of the site is occupied by a sports complex; and the site is occupied on the east by U.S Highway 281. Existing trees and bushes provide limited screening for the facility. The nearest offsite residence is located approximately 1,100 feet southwest of the facility's southern boundary (on the opposite side of Jumbo Evan's Sports Park. In addition, the entire facility will be enclosed and screened by fencing. Transfer operations will be conducted in the transfer building, which is a partially enclosed structure which should limit the amount of noise pollution associated with daily operations at the facility. The screening provided by the walls of the transfer building, fence, and (to a lesser degree) the vegetation at the site is expected to substantially reduce the amount of potential noise pollution at the site. In addition, the nearest residence is located a significant distance away from the actual area of operations which should also aid in alleviating the impact of any potential noise pollution generated as a result of routine operations at the facility.

- 1.3 SANITATION [30 TAC §330.63(b)(3)(A) thru (D)]** - The working floor of the transfer building is designed to facilitate proper cleaning. The potable water at this facility is supplied either from well water or from the Canyon Lake Water Service Company. Both sources are capable of providing the facility with an around-the-clock supply of potable water. The facility will be equipped with several hose bibs to easily facilitate cleaning of all working surfaces and employees will be provided with hand-washing areas at the facility. Cleaning will be accomplished with standard equipment (water hoses, mops, brooms, etc.). The walls and floors in the operating areas are constructed of hard-surfaced materials that can be hosed down and scrubbed as needed. Specifically, the floors will be constructed of concrete and the walls of the building will be metal. These areas are protected from rain by a covering roof and the surrounding external areas will be graded to direct runoff away from the facility. The working floor and loading area will be gently sloped so as to direct wash-water (and any other contaminated water) to the drains, thence pumped to the above-ground holding tank. This holding tank will be emptied on an as-needed basis and hauled to a TCEQ approved facility for treatment and final disposal.

Portable restrooms will be provided at various locations on the facility grounds for use by the public and staff. These will be emptied and maintained on a regular basis. The waste from these portable restrooms will be hauled to a TCEQ approved facility for final disposal.

- 1.4 WATER POLLUTION CONTROL [30 TAC §330.63(b)(4)]** - Wastewater resulting from cleaning and washing will be directed to a drain from which it will be pumped to the above-ground holding tank. The site will be generally graded so that stormwater runoff is directed away from the transfer building and ramped loading area. In addition, the entry ways to the transfer building will be equipped with a roll-over curb to prevent any runoff from entering these areas and to prevent any wash water or other contaminated water from flowing out of these areas. The working floor and loading area will be sloped so as to direct wash water toward the drain. Any rain water that might be incidentally blown in through the building's doors during strong winds that comes into contact with the waste will also be collected and sent to the holding tank.

Roll over curbs will also be provided at the foot of the ramp to serve as a physical barrier to protect the pit area from any rainwater shed by the ramp. Slot drains will be provided before the curb (on the ramp side) to intercept uncontaminated runoff from the ramp and direct it to an on-site storm sewer and away from the transfer building. The pit area will be sloped toward the drain, from which any wash water will be pumped to the above ground contaminated water holding tank.

The holding tank will be emptied on an as-needed basis by vacuum truck (operated by a third-party hauler) and hauled to a TCEQ approved facility for treatment and final disposal. The above ground holding tank will also be equipped with a concrete berm for secondary containment in the event that the tank ever becomes compromised. The bermed area will provided sufficient volume to contain a worst case tank breach.

This facility will be designed to comply with 30 TAC§330.303 which requires that be constructed, maintained, and operated to manage run-on and runoff during the peak discharge of a 25-year rainfall event and must prevent the off-site discharge of waste material.

SECTION 2: SURFACE WATER DRAINAGE [30 TAC §330.63(c)]

In compliance with 30 TAC§330.303 (Surface Water Drainage for Municipal Solid Waste Facilities), the facility will be constructed, maintained, and operated to manage run-on and runoff during the peak discharge of a 25-year rainfall event. The facility is designed and laid out in such a manner as to prevent the off-site discharge of waste and feedstock material, including, but not limited to, in-process and/or processed materials. The design of the facility and the grading of the site will ensure that surface water drainage in and around a facility will be controlled to minimize surface water running onto, into, and off the treatment area.

Operations involving solid waste transfer will be conducted in the covered working floor area in the transfer building which will protect them from rainfall. In addition, the building itself will be located such that the proposed contouring of the site will prevent runoff from entering the facility. In addition, the entry ways to the transfer building will be equipped with a roll-over curb to prevent any runoff from entering these areas and to prevent any wash water or other contaminated water from flowing out of these areas. Any rain water that might be blow into the facility by strong winds that comes into contact with the waste will be collected via the facility drain, then be pumped to the above-ground contaminated water holding tank. This holding tank will be emptied on an as-needed basis and hauled to a TCEQ approved facility for treatment and final disposal.

The pit area of the transfer building will also be covered. The pit area will be sloped such that wash water will be directed to the drain, from which it will then be pumped to the above ground contaminated water holding tank. Roll over curbs will be provided at the foot of the ramps to provide a physical barrier to any rainfall that is shed by the ramp and prevent it from entering the pit area. Slot drains will be provided adjacent to the roll over curb (on the ramp side) to intercept any uncontaminated rainfall shed by the ramps and direct it to an on-site storm sewer system and away from the transfer building.

There will be no runoff directed into the working areas of the facility under normal operating conditions. The site will be graded so that all runoff is directed away from the transfer building. The interior of the transfer building will be constructed so as to direct all wash water generated at the facility (or any other contaminated water) to the drain located in the pit area, thence to the drain line which will direct it to a sump from which it will be pumped into an above-ground holding tank. The tank will be emptied on an as needed basis by a certified third-party hauler. The holding tank will also be equipped with a berm designed to provide secondary containment should the integrity of the holding tank ever become compromised. The berm will be sized to provide sufficient volume to contain a worst-case spill or release from the holding tank. In the unlikely event that a breach of both the tank and the berm occurs, then the unit will be repaired or replaced and all affected areas will be remediated by removing contaminated soil and transporting it to a TCEQ approved facility for disposal and then replacing it with clean backfill.

All site improvements will be constructed, maintained, and operated to manage run-on and runoff during the during the peak discharge of the 25-year rainfall event. The improvements will be constructed, maintained and operated to prevent the off-site discharge of waste, in-process, or processed materials. Best management procedures will be utilized during construction to minimize erosion and reduce the potential for sediment to be transported to area streams.

Wash water will be managed in accordance with TAC §330.207 (Contaminated Water Management). No contaminated water is allowed to pond at the transfer station or to run off as surface age. All liquids resulting from the operation of the transfer station will be disposed of in a manner that will not cause surface water or groundwater pollution. Wastewater resulting from cleaning and washing will be directed via drain to the above-ground holding tank. The holding tank will be emptied on an as-needed basis and hauled to a TCEQ approved facility for final disposal. The operator will not discharge contaminated water without specific written authorization.

2.1 DRAINAGE ANALYSIS [30 TAC §330.63(c)(1)] - This requirement appears to be required solely for landfill applications and as such is not applicable for this facility.

2.2 FLOOD CONTROL AND ANALYSIS [30 TAC §330.63(c)(2)] - The attachments of Part II of this application shows relevant portions of the most recent flood map of the area with the Spring Branch

Transfer Station's boundaries superimposed onto it. Based on that information, is not located within the 100-year floodplain.