ATWELL

CONSULTING. ENGINEERING. CONSTRUCTION.

CONTRIBUTING ZONE PLAN APPLICATION

FOR

EWALD KUBOTA

Prepared for:

Mount Vernon, LLC
PO Box 1287
Seguin, TX 78156
(830) 305-1648
TCEQ CN: Not Issued

February 2025

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Edwards Aquifer Application Cover Page (TCEQ-20705)

Texas Commission on Environmental Quality

Edwards Aquifer Application Cover Page

Our Review of Your Application

The Edwards Aquifer Program staff conducts an administrative and technical review of all applications. The turnaround time for administrative review can be up to 30 days as outlined in 30 TAC 213.4(e). Generally administrative completeness is determined during the intake meeting or within a few days of receipt. The turnaround time for technical review of an administratively complete Edwards Aquifer application is 90 days as outlined in 30 TAC 213.4(e). Please know that the review and approval time is directly impacted by the quality and completeness of the initial application that is received. In order to conduct a timely review, it is imperative that the information provided in an Edwards Aquifer application include final plans, be accurate, complete, and in compliance with 30 TAC 213.

Administrative Review

1. Edwards Aquifer applications must be deemed administratively complete before a technical review can begin. To be considered administratively complete, the application must contain completed forms and attachments, provide the requested information, and meet all the site plan requirements. The submitted application and plan sheets should be final plans. Please submit one full-size set of plan sheets with the original application, and half-size sets with the additional copies.

   To ensure that all applicable documents are included in the application, the program has developed tools to guide you and web pages to provide all forms, checklists, and guidance. Please visit the below website for assistance: http://www.tceq.texas.gov/field/eapp.

2. This Edwards Aquifer Application Cover Page form (certified by the applicant or agent) must be included in the application and brought to the administrative review meeting.

3. Administrative reviews are scheduled with program staff who will conduct the review. Applicants or their authorized agent should call the appropriate regional office, according to the county in which the project is located, to schedule a review. The average meeting time is one hour.

4. In the meeting, the application is examined for administrative completeness. Deficiencies will be noted by staff and emailed or faxed to the applicant and authorized agent at the end of the meeting, or shortly after. Administrative deficiencies will cause the application to be deemed incomplete and returned.

   An appointment should be made to resubmit the application. The application is re-examined to ensure all deficiencies are resolved. The application will only be deemed administratively complete when all administrative deficiencies are addressed.

5. If an application is received by mail, courier service, or otherwise submitted without a review meeting, the administrative review will be conducted within 30 days. The applicant and agent will be contacted with the results of the administrative review. If the application is found to be administratively incomplete, it can be retrieved from the regional office or returned by regular mail. If returned by mail, the regional office may require arrangements for return shipping.

6. If the geologic assessment was completed before October 1, 2004 and the site contains “possibly sensitive” features, the assessment must be updated in accordance with the *Instructions to Geologists* (TCEQ-0585 Instructions).

Technical Review

1. When an application is deemed administratively complete, the technical review period begins. The regional office will distribute copies of the application to the identified affected city, county, and groundwater conservation district whose jurisdiction includes the subject site. These entities and the public have 30 days to provide comments on the application to the regional office. All comments received are reviewed by TCEQ.

2. A site assessment is usually conducted as part of the technical review, to evaluate the geologic assessment and observe existing site conditions. The site must be accessible to our staff. The site boundaries should be

clearly marked, features identified in the geologic assessment should be flagged, roadways marked and the alignment of the Sewage Collection System and manholes should be staked at the time the application is submitted. If the site is not marked the application may be returned.

3. We evaluate the application for technical completeness and contact the applicant and agent via Notice of Deficiency (NOD) to request additional information and identify technical deficiencies. There are two deficiency response periods available to the applicant. There are 14 days to resolve deficiencies noted in the first NOD. If a second NOD is issued, there is an additional 14 days to resolve deficiencies. If the response to the second notice is not received, is incomplete or inadequate, or provides new information that is incomplete or inadequate, the application must be withdrawn or will be denied. Please note that because the technical review is underway, whether the application is withdrawn or denied **the application fee will be forfeited**.
4. The program has 90 calendar days to complete the technical review of the application. If the application is technically adequate, such that it complies with the Edwards Aquifer rules, and is protective of the Edwards Aquifer during and after construction, an approval letter will be issued. Construction or other regulated activity may not begin until an approval is issued.

Mid-Review Modifications

It is important to have final site plans prior to beginning the permitting process with TCEQ to avoid delays.

Occasionally, circumstances arise where you may have significant design and/or site plan changes after your Edwards Aquifer application has been deemed administratively complete by TCEQ. This is considered a "Mid-Review Modification". Mid-Review Modifications may require redistribution of an application that includes the proposed modifications for public comment.

If you are proposing a Mid-Review Modification, two options are available:

- If the technical review has begun your application can be denied/withdrawn, your fees will be forfeited, and the plan will have to be resubmitted.
- TCEQ can continue the technical review of the application as it was submitted, and a modification application can be submitted at a later time.

If the application is denied/withdrawn, the resubmitted application will be subject to the administrative and technical review processes and will be treated as a new application. The application will be redistributed to the affected jurisdictions.

Please contact the regional office if you have questions. If your project is located in Williamson, Travis, or Hays County, contact TCEQ's Austin Regional Office at 512-339-2929. If your project is in Comal, Bexar, Medina, Uvalde, or Kinney County, contact TCEQ's San Antonio Regional Office at 210-490-3096

Please fill out all required fields below and submit with your application.

1. Regulated Entity Name: Not issued						**2. Regulated Entity No.:** Not issued			
3. Customer Name: MOUNT VERNON, LLC						**4. Customer No.:**			
5. Project Type: **(Please circle/check one)**	New		Modification			Extension		Exception	
6. Plan Type: **(Please circle/check one)**	WPAP	CZP	SCS	UST	AST	EXP	EXT	Technical Clarification	Optional Enhanced Measures
7. Land Use: **(Please circle/check one)**	Residential		Non-residential			**8. Site (acres):**			3.897
9. Application Fee:	$4,000		**10. Permanent BMP(s):**					Batch Detention Basins	
11. SCS (Linear Ft.):	N/A		**12. AST/UST (No. Tanks):**					N/A	
13. County:	HAYS		**14. Watershed:**					ONION CREEK	

Application Distribution

Instructions: Use the table below to determine the number of applications required. One original and one copy of the application, plus additional copies (as needed) for each affected incorporated city, county, and groundwater conservation district are required. Linear projects or large projects, which cross into multiple jurisdictions, can require additional copies. Refer to the "Texas Groundwater Conservation Districts within the EAPP Boundaries" map found at:

http://www.tceq.texas.gov/assets/public/compliance/field_ops/eapp/EAPP%20GWCD%20map.pdf

For more detailed boundaries, please contact the conservation district directly.

Austin Region			
County:	**Hays**	**Travis**	**Williamson**
Original (1 req.)	X	___	___
Region (1 req.)	X	___	___
County(ies)	X	___	___
Groundwater Conservation District(s)	___Edwards Aquifer Authority ___Barton Springs/ Edwards Aquifer X Hays Trinity ___Plum Creek	___Barton Springs/ Edwards Aquifer	NA
City(ies) Jurisdiction	___Austin ___Buda X Dripping Springs ___Kyle ___Mountain City ___San Marcos ___Wimberley ___Woodcreek	___Austin ___Bee Cave ___Pflugerville ___Rollingwood ___Round Rock ___Sunset Valley ___West Lake Hills	___Austin ___Cedar Park ___Florence ___Georgetown ___Jerrell ___Leander ___Liberty Hill ___Pflugerville ___Round Rock

San Antonio Region					
County:	**Bexar**	**Comal**	**Kinney**	**Medina**	**Uvalde**
Original (1 req.)	___	___	___	___	___
Region (1 req.)	___	___	___	___	___
County(ies)	___	___	___	___	___
Groundwater Conservation District(s)	___ Edwards Aquifer Authority ___Trinity-Glen Rose	___Edwards Aquifer Authority	___Kinney	___EAA ___Medina	___EAA ___Uvalde
City(ies) Jurisdiction	___Castle Hills ___Fair Oaks Ranch ___Helotes ___Hill Country Village ___Hollywood Park ___San Antonio (SAWS) ___Shavano Park	___Bulverde ___Fair Oaks Ranch ___Garden Ridge ___New Braunfels ___Schertz	NA	___San Antonio ETJ (SAWS)	NA

I certify that to the best of my knowledge, that the application is complete and accurate. This application is hereby submitted to TCEQ for administrative review and technical review. Jenna Sollner, P.E.
Print Name of Customer/Authorized Agent
Signature of Customer/Authorized Agent Date 3/6/25

FOR TCEQ INTERNAL USE ONLY				
Date(s)Reviewed:		Date Administratively Complete:		
Received From:		Correct Number of Copies:		
Received By:		Distribution Date:		
EAPP File Number:		Complex:		
Admin. Review(s) (No.):		No. AR Rounds:		
Delinquent Fees (Y/N):		Review Time Spent:		
Lat./Long. Verified:		SOS Customer Verification:		
Agent Authorization Complete/Notarized (Y/N):		Fee Check:	Payable to TCEQ (Y/N):	
Core Data Form Complete (Y/N):			Signed (Y/N):	
Core Data Form Incomplete Nos.:			Less than 90 days old (Y/N):	

Contributing Zone Plan Application (TCEQ-10257)

3815 S. Capital of Texas Highway, Ste. 300, Austin, TX 78704 Tel: 512.904.0505 Fax: 512.904.0509
www.atwell-group.com

Contributing Zone Plan Application

Texas Commission on Environmental Quality

for Regulated Activities on the Contributing Zone to the Edwards Aquifer and Relating to 30 TAC §213.24(1), Effective June 1, 1999

To ensure that the application is administratively complete, confirm that all fields in the form are complete, verify that all requested information is provided, consistently reference the same site and contact person in all forms in the application, and ensure forms are signed by the appropriate party.

Note: Including all the information requested in the form and attachments contributes to more streamlined technical reviews.

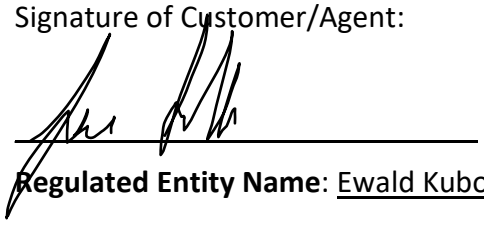
Signature

To the best of my knowledge, the responses to this form accurately reflect all information requested concerning the proposed regulated activities and methods to protect the Edwards Aquifer. This **Contributing Zone Plan Application** is hereby submitted for TCEQ review and Executive Director approval. The application was prepared by:

Print Name of Customer/Agent: Jenna Sollner, PE

Date: 3/6/2025

Signature of Customer/Agent:



Regulated Entity Name: Ewald Kubota

Project Information

1. County: Hays
2. Stream Basin: Onion Creek
3. Groundwater Conservation District (if applicable): Hays Trinity
4. Customer (Applicant):

   Contact Person: John Ewald
   Entity: Mount Vernon, LLC
   Mailing Address: PO Box 1287
   City, State: Seguin, TX Zip: 78156
   Telephone: (830) 305-1648 Fax: _____
   Email Address: john.e@ewaldkubota.com

5. Agent/Representative (If any):

Contact Person: Jenna Sollner, PE
Entity: Atwell, LLC
Mailing Address: 3815 S Capital of Texas Highway, Ste 300
City, State: Austin, TX Zip: 78704
Telephone: (512) 904-0505 Fax: (512) 904-0509
Email Address: jsollner@atwell.com

6. Project Location:

☐ The project site is located inside the city limits of _____.
☒ The project site is located outside the city limits but inside the ETJ (extra-territorial jurisdiction) of Dripping Springs.
☐ The project site is not located within any city's limits or ETJ.

7. ☒ The location of the project site is described below. Sufficient detail and clarity has been provided so that the TCEQ's Regional staff can easily locate the project and site boundaries for a field investigation.

Ewald Kubota is located at 3983 US 290, Dripping Springs, TX 78620

8. ☒ **Attachment A - Road Map**. A road map showing directions to and the location of the project site is attached. The map clearly shows the boundary of the project site.

9. ☒ **Attachment B - USGS Quadrangle Map**. A copy of the official 7 ½ minute USGS Quadrangle Map (Scale: 1" = 2000') is attached. The map(s) clearly show:

☒ Project site boundaries.
☒ USGS Quadrangle Name(s).

10. ☒ **Attachment C - Project Narrative**. A detailed narrative description of the proposed project is attached. The project description is consistent throughout the application and contains, at a minimum, the following details:

☒ Area of the site
☒ Offsite areas
☒ Impervious cover
☒ Permanent BMP(s)
☒ Proposed site use
☒ Site history
☒ Previous development
☒ Area(s) to be demolished

11. Existing project site conditions are noted below:

☐ Existing commercial site
☐ Existing industrial site
☐ Existing residential site

☐ Existing paved and/or unpaved roads
☐ Undeveloped (Cleared)
☒ Undeveloped (Undisturbed/Not cleared)
☐ Other: _____

12. The type of project is:

☐ Residential: # of Lots: _____
☐ Residential: # of Living Unit Equivalents: _____
☒ Commercial
☐ Industrial
☐ Other: _____

13. Total project area (size of site): 3.897 Acres

Total disturbed area: 4.170 Acres

14. Estimated projected population: _____

15. The amount and type of impervious cover expected after construction is complete is shown below:

Table 1 - Impervious Cover

Impervious Cover of Proposed Project	***Sq. Ft.***	***Sq. Ft./Acre***	***Acres***
Structures/Rooftops	10,710	÷ 43,560 =	0.246
Parking	3,500	÷ 43,560 =	0.080
Other paved surfaces	49,717	÷ 43,560 =	1.141
Total Impervious Cover	63,927	÷ 43,560 =	1.467

Total Impervious Cover 1.467 **÷ Total Acreage** 4.170 **X 100 =** 35.18**% Impervious Cover**

16. ☒ **Attachment D - Factors Affecting Surface Water Quality**. A detailed description of all factors that could affect surface water quality is attached. If applicable, this includes the location and description of any discharge associated with industrial activity other than construction.

17. ☒ Only inert materials as defined by 30 TAC 330.2 will be used as fill material.

For Road Projects Only

Complete questions 18 - 23 if this application is exclusively for a road project.

☐ N/A

18. Type of project:

- ☐ TXDOT road project.
- ☐ County road or roads built to county specifications.
- ☐ City thoroughfare or roads to be dedicated to a municipality.
- ☐ Street or road providing access to private driveways.

19. Type of pavement or road surface to be used:

- ☐ Concrete
- ☐ Asphaltic concrete pavement
- ☐ Other: _____

20. Right of Way (R.O.W.):

Length of R.O.W.: _____ feet.
Width of R.O.W.: _____ feet.
L x W = _____Ft^2 ÷ 43,560 Ft^2/Acre = _____ acres.

21. Pavement Area:

Length of pavement area: _____ feet.
Width of pavement area: _____ feet.
L x W = _____Ft^2 ÷ 43,560 Ft^2/Acre = _____ acres.
Pavement area _____ acres ÷ R.O.W. area _____ acres x 100 = _____% impervious cover.

22. ☐ A rest stop will be included in this project.

☐ A rest stop will not be included in this project.

23. ☐ Maintenance and repair of existing roadways that do not require approval from the TCEQ Executive Director. Modifications to existing roadways such as widening roads/adding shoulders totaling more than one-half (1/2) the width of one (1) existing lane require prior approval from the TCEQ.

Stormwater to be generated by the Proposed Project

24. ☒ **Attachment E - Volume and Character of Stormwater**. A detailed description of the volume (quantity) and character (quality) of the stormwater runoff which is expected to occur from the proposed project is attached. The estimates of stormwater runoff quality and quantity are based on area and type of impervious cover. Include the runoff coefficient of the site for both pre-construction and post-construction conditions.

Wastewater to be generated by the Proposed Project

25. ☐ Wastewater is to be discharged in the contributing zone. Requirements under 30 TAC §213.6(c) relating to Wastewater Treatment and Disposal Systems have been satisfied.

☒ N/A

26. Wastewater will be disposed of by:

☒ On-Site Sewage Facility (OSSF/Septic Tank):

☒ **Attachment F - Suitability Letter from Authorized Agent**. An on-site sewage facility will be used to treat and dispose of the wastewater from this site. The appropriate licensing authority's (authorized agent) written approval is attached. It states that the land is suitable for the use of private sewage facilities and will meet or exceed the requirements for on-site sewage facilities as specified under 30 TAC Chapter 285 relating to On-site Sewage Facilities.

☒ Each lot in this project/development is at least one (1) acre (43,560 square feet) in size. The system will be designed by a licensed professional engineer or registered sanitarian and installed by a licensed installer in compliance with 30 TAC Chapter 285.

☐ Sewage Collection System (Sewer Lines):

The sewage collection system will convey the wastewater to the _____ (name) Treatment Plant. The treatment facility is:

☐ Existing.
☐ Proposed.

☐ N/A

Permanent Aboveground Storage Tanks(ASTs) ≥ 500 Gallons

Complete questions 27 - 33 if this project includes the installation of AST(s) with volume(s) greater than or equal to 500 gallons.

☒N/A

27. Tanks and substance stored:

Table 2 - Tanks and Substance Storage

AST Number	*Size (Gallons)*	*Substance to be Stored*	*Tank Material*
1			
2			
3			
4			
5			

Total x 1.5 = _____ Gallons

28. ☐ The AST will be placed within a containment structure that is sized to capture one and one-half (1 1/2) times the storage capacity of the system. For facilities with more than

one tank system, the containment structure is sized to capture one and one-half (1 1/2) times the cumulative storage capacity of all systems.

☐ **Attachment G - Alternative Secondary Containment Methods**. Alternative methods for providing secondary containment are proposed. Specifications showing equivalent protection for the Edwards Aquifer are attached.

29. Inside dimensions and capacity of containment structure(s):

Table 3 - Secondary Containment

Length (L)(Ft.)	*Width(W)(Ft.)*	*Height (H)(Ft.)*	*L x W x H = (Ft3)*	*Gallons*

Total: _____ Gallons

30. Piping:

☐ All piping, hoses, and dispensers will be located inside the containment structure.
☐ Some of the piping to dispensers or equipment will extend outside the containment structure.
☐ The piping will be aboveground
☐ The piping will be underground

31. ☐ The containment area must be constructed of and in a material impervious to the substance(s) being stored. The proposed containment structure will be constructed of: _____.

32. ☐ **Attachment H - AST Containment Structure Drawings**. A scaled drawing of the containment structure is attached that shows the following:

☐ Interior dimensions (length, width, depth and wall and floor thickness).
☐ Internal drainage to a point convenient for the collection of any spillage.
☐ Tanks clearly labeled
☐ Piping clearly labeled
☐ Dispenser clearly labeled

33. ☐ Any spills must be directed to a point convenient for collection and recovery. Spills from storage tank facilities must be removed from the controlled drainage area for disposal within 24 hours of the spill.

☐ In the event of a spill, any spillage will be removed from the containment structure within 24 hours of the spill and disposed of properly.

☐ In the event of a spill, any spillage will be drained from the containment structure through a drain and valve within 24 hours of the spill and disposed of properly. The drain and valve system are shown in detail on the scaled drawing.

Site Plan Requirements

Items 34 - 46 must be included on the Site Plan.

34. ☒ The Site Plan must have a minimum scale of 1" = 400'.

    Site Plan Scale: 1" = 30'.

35. 100-year floodplain boundaries:

    ☐ Some part(s) of the project site is located within the 100-year floodplain. The floodplain is shown and labeled.

    ☒ No part of the project site is located within the 100-year floodplain.

    The 100-year floodplain boundaries are based on the following specific (including date of material) sources(s): FEMA Map number 48209C0109G dated 1/17/2025.

36. ☒ The layout of the development is shown with existing and finished contours at appropriate, but not greater than ten-foot contour intervals. Lots, recreation centers, buildings, roads, etc. are shown on the site plan.

    ☐ The layout of the development is shown with existing contours at appropriate, but not greater than ten-foot contour intervals. Finished topographic contours will not differ from the existing topographic configuration and are not shown. Lots, recreation centers, buildings, roads, etc. are shown on the site plan.

37. ☒ A drainage plan showing all paths of drainage from the site to surface streams.

38. ☒ The drainage patterns and approximate slopes anticipated after major grading activities.

39. ☒ Areas of soil disturbance and areas which will not be disturbed.

40. ☒ Locations of major structural and nonstructural controls. These are the temporary and permanent best management practices.

41. ☒ Locations where soil stabilization practices are expected to occur.

42. ☐ Surface waters (including wetlands).

    ☒ N/A

43. ☐ Locations where stormwater discharges to surface water.

    ☒ There will be no discharges to surface water.

44. ☐ Temporary aboveground storage tank facilities.

    ☒ Temporary aboveground storage tank facilities will not be located on this site.

45. ☐ Permanent aboveground storage tank facilities.

☒ Permanent aboveground storage tank facilities will not be located on this site.

46. ☒ Legal boundaries of the site are shown.

Permanent Best Management Practices (BMPs)

Practices and measures that will be used during and after construction is completed.

47. ☒ Permanent BMPs and measures must be implemented to control the discharge of pollution from regulated activities after the completion of construction.

☐ N/A

48. ☒ These practices and measures have been designed, and will be constructed, operated, and maintained to insure that 80% of the incremental increase in the annual mass loading of total suspended solids (TSS) from the site caused by the regulated activity is removed. These quantities have been calculated in accordance with technical guidance prepared or accepted by the executive director.

☒ The TCEQ Technical Guidance Manual (TGM) was used to design permanent BMPs and measures for this site.

☐ A technical guidance other than the TCEQ TGM was used to design permanent BMPs and measures for this site. The complete citation for the technical guidance that was used is: _____.

☐ N/A

49. ☒ Owners must insure that permanent BMPs and measures are constructed and function as designed. A Texas Licensed Professional Engineer must certify in writing that the permanent BMPs or measures were constructed as designed. The certification letter must be submitted to the appropriate regional office within 30 days of site completion.

☐ N/A

50. Where a site is used for low density single-family residential development and has 20 % or less impervious cover, other permanent BMPs are not required. This exemption from permanent BMPs must be recorded in the county deed records, with a notice that if the percent impervious cover increases above 20% or land use changes, the exemption for the whole site as described in the property boundaries required by 30 TAC §213.4(g) (relating to Application Processing and Approval), may no longer apply and the property owner must notify the appropriate regional office of these changes.

☐ The site will be used for low density single-family residential development and has 20% or less impervious cover.

☐ The site will be used for low density single-family residential development but has more than 20% impervious cover.

☒ The site will not be used for low density single-family residential development.

51. The executive director may waive the requirement for other permanent BMPs for multi-family residential developments, schools, or small business sites where 20% or less impervious cover is used at the site. This exemption from permanent BMPs must be recorded in the county deed records, with a notice that if the percent impervious cover increases above 20% or land use changes, the exemption for the whole site as described in the property boundaries required by 30 TAC §213.4(g) (relating to Application Processing and Approval), may no longer apply and the property owner must notify the appropriate regional office of these changes.

    ☐ **Attachment I - 20% or Less Impervious Cover Waiver**. The site will be used for multi-family residential developments, schools, or small business sites and has 20% or less impervious cover. A request to waive the requirements for other permanent BMPs and measures is attached.
    ☐ The site will be used for multi-family residential developments, schools, or small business sites but has more than 20% impervious cover.
    ☒ The site will not be used for multi-family residential developments, schools, or small business sites.

52. ☐ **Attachment J - BMPs for Upgradient Stormwater**.

    ☐ A description of the BMPs and measures that will be used to prevent pollution of surface water, groundwater, or stormwater that originates upgradient from the site and flows across the site is attached.
    ☒ No surface water, groundwater or stormwater originates upgradient from the site and flows across the site, and an explanation is attached.
    ☐ Permanent BMPs or measures are not required to prevent pollution of surface water, groundwater, or stormwater that originates upgradient from the site and flows across the site, and an explanation is attached.

53. ☒ **Attachment K - BMPs for On-site Stormwater**.

    ☒ A description of the BMPs and measures that will be used to prevent pollution of surface water or groundwater that originates on-site or flows off the site, including pollution caused by contaminated stormwater runoff from the site is attached.
    ☐ Permanent BMPs or measures are not required to prevent pollution of surface water or groundwater that originates on-site or flows off the site, including pollution caused by contaminated stormwater runoff, and an explanation is attached.

54. ☐ **Attachment L - BMPs for Surface Streams**. A description of the BMPs and measures that prevent pollutants from entering surface streams is attached.

    ☒ N/A

55. ☒ **Attachment M - Construction Plans**. Construction plans and design calculations for the proposed permanent BMPs and measures have been prepared by or under the direct supervision of a Texas Licensed Professional Engineer, and are signed, sealed, and dated. Construction plans for the proposed permanent BMPs and measures are

attached and include: Design calculations, TCEQ Construction Notes, all proposed structural plans and specifications, and appropriate details.

☐ N/A

56. ☒ **Attachment N - Inspection, Maintenance, Repair and Retrofit Plan**. A site and BMP specific plan for the inspection, maintenance, repair, and, if necessary, retrofit of the permanent BMPs and measures is attached. The plan fulfills all of the following:

☒ Prepared and certified by the engineer designing the permanent BMPs and measures
☒ Signed by the owner or responsible party
☒ Outlines specific procedures for documenting inspections, maintenance, repairs, and, if necessary, retrofit.
☒ Contains a discussion of record keeping procedures

☐ N/A

57. ☐ **Attachment O - Pilot-Scale Field Testing Plan**. Pilot studies for BMPs that are not recognized by the Executive Director require prior approval from the TCEQ. A plan for pilot-scale field testing is attached.

☒ N/A

58. ☐ **Attachment P - Measures for Minimizing Surface Stream Contamination**. A description of the measures that will be used to avoid or minimize surface stream contamination and changes in the way in which water enters a stream as a result of the construction and development is attached. The measures address increased stream flashing, the creation of stronger flows and in-stream velocities, and other in-stream effects caused by the regulated activity, which increase erosion that result in water quality degradation.

☐ N/A

Responsibility for Maintenance of Permanent BMPs and Measures after Construction is Complete.

59. ☒ The applicant is responsible for maintaining the permanent BMPs after construction until such time as the maintenance obligation is either assumed in writing by another entity having ownership or control of the property (such as without limitation, an owner's association, a new property owner or lessee, a district, or municipality) or the ownership of the property is transferred to the entity. Such entity shall then be responsible for maintenance until another entity assumes such obligations in writing or ownership is transferred.

60. ☒ A copy of the transfer of responsibility must be filed with the executive director at the appropriate regional office within 30 days of the transfer if the site is for use as a multiple single-family residential development, a multi-family residential development,

or a non-residential development such as commercial, industrial, institutional, schools, and other sites where regulated activities occur.

Administrative Information

61. ☒ Submit one (1) original and one (1) copy of the application, plus additional copies as needed for each affected incorporated city, groundwater conservation district, and county in which the project will be located. The TCEQ will distribute the additional copies to these jurisdictions.

62. ☒ Any modification of this Contributing Zone Plan may require TCEQ review and Executive Director approval prior to construction, and may require submission of a revised application, with appropriate fees.

63. ☐ The site description, controls, maintenance, and inspection requirements for the storm water pollution prevention plan (SWPPP) developed under the EPA NPDES general permits for stormwater discharges have been submitted to fulfill paragraphs 30 TAC §213.24(1-5) of the technical report. All requirements of 30 TAC §213.24(1-5) have been met by the SWPPP document.

☒ The Temporary Stormwater Section (TCEQ-0602) is included with the application.

Attachment A:
Road Map

Attachment B:
USGS / Edwards Recharge Zone Map

U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

The National Map US Topo

DRIPPING SPRINGS QUADRANGLE
TEXAS
7.5-MINUTE SERIES

SITE LOCATION

Fitzhugh
Fitzhugh Cem
Dripping Springs
Wallace Family Cem
Wallace Mountain Cem
Reaves Reeves Cem
Phillips Cem
Driftwood
Walnut Spring
Kirby Spring
Barton Cr
Little Barton Cr
Onion Cr
Roy Br
Jackson Br
Pier Br
Long Br
Turkey Hollow
Hog Hollow
Travis Co
Hays Co
Fitzhugh Rd
Trail Driver St
Copperwood Dr
Canopy Oak Dr
Ryan Ridge Pl
Sunset Canyon Dr
Canyon Bend Dr
Sundance Ridge Rd
Foothills Dr
Fawn Meadow Dr
Cattle Trail Dr
Meadow Creek Dr
Desert Willow Way
Enchanted Oak Dr
Flint Rock Loop
Becky's Way
Huckfinn Trl
Tom Sawyer Rd
Sawyer Ranch Rd
Sunown Ridge
Canonade Dr
Whitewing Ridge
Pier Branch Rd
Canyon Bend Dr
Sunset Canyon Dr
Hidden Hill Dr
Co Rd 101
Co Rd 165
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-98.1250° 30.2500° 585000mE 86 87 88 89 90 91 92 93 94 95 96 -98.0000° 30.2500°
3346000mN 45 44 43 42 41 40 39 38 37 36 35 34 33
30.1250° 85 86 87 88 89 90 91 92 93 94 95 5960000mE -98.0000° 30.1250°

Produced by the United States Geological Survey
North American Datum of 1983 (NAD83)
World Geodetic System of 1984 (WGS84). Projection and
1 000-meter grid:Universal Transverse Mercator, Zone 14R

This map is not a legal document. Boundaries may be generalized for this map scale. Private lands within government reservations may not be shown. Obtain permission before entering private lands.

Imagery.....NAIP, September 2016 - November 2016
Roads.....U.S. Census Bureau, 2015 - 2019
Names.....GNIS, 1979 - 2022
Hydrography.....National Hydrography Dataset, 2002 - 2018
Contours.....National Elevation Dataset, 2019
Boundaries.....Multiple sources; see metadata file 2019 - 2021

Wetlands.....FWS National Wetlands Inventory Not Available

MN
GN
0°28′ 8 MILS
3°54′ 69 MILS
UTM GRID AND 2019 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

U.S. National Grid
100,000 - m Square ID
NU
Grid Zone Designation 14R

SCALE 1:24 000
1 0.5 0 KILOMETERS 1 2
1000 500 0 METERS 1000 2000
1 0.5 0 1 MILES
1000 0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000 FEET

CONTOUR INTERVAL 20 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988

This map was produced to conform with the National Geospatial Program US Topo Product Standard.

TEXAS
QUADRANGLE LOCATION

1	2	3
4		5
6	7	8

ADJOINING QUADRANGLES
1 Hammetts Crossing
2 Shingle Hills
3 Bee Cave
4 Henly
5 Signal Hill
6 Rough Hollow
7 Driftwood
8 Mountain City

ROAD CLASSIFICATION
Expressway
Secondary Hwy
Ramp
Local Connector
Local Road
4WD
Interstate Route
US Route
State Route

DRIPPING SPRINGS, TX
2022

NSN, 7643016395933
NGA REF NO. USGSX24K12801

Attachment C:
Project Narrative

General Site Description

Ewald Kubota is a commercial tractor store on the west side of the City of Dripping Springs ETJ within Hays County, Texas. The property is located at 3983 US 290, Dripping Springs, TX. The site is currently undeveloped and identified as Parcels R44533 and R44534. Access to the site will be provided via an entrance along US 290.

Proposed Development

Ewald Kubota is a 3.897-acre property that is proposed to be developed with a commercial tractor store with a single building, parking, associated drives, and one water quality with batch detention pond (located within the Contributing Zone).

There are no adverse impacts to the existing drainage. Environmental and sedimentation controls will be implemented for the proposed improvements.

Variances

No variances are requested for this project.

Access

Access to the site will be provided via an entrance along US 290 across from and approximately 300 ft west of Canyon Bend Dr.

Floodplain Information

This site is located within the Flood Insurance Rate Map number 48209C0109G dated January 17, 2025, as prepared by the Federal Emergency Management Agency. No portion of any lot will be located within the defined 100-year floodplain.

Watershed

Ewald Kubota is entirely located in the Onion Creek Watershed. The entire site is located within the Edwards Aquifer Contributing Zone. A TCEQ review is required for property within the Recharge Zone or Contributing Zone. Treatment will be proposed for all impervious cover within the site boundary.

Impervious Cover

The total site area is 3.897 acres. The undeveloped site has no existing impervious cover. The proposed impervious cover due to the development is 1.410 acres, or 36.18 percent of the total site.

The total limit of disturbance is 4.17 acres. The undeveloped limit of disturbance also has no existing impervious cover. The proposed impervious cover for the limit of disturbance is 1.467 acres or 35.18 percent of the total project.

Drainage and Water Quality

Due to the increase in impervious cover associated with this development, the flows experienced under post-developed conditions exceed the existing conditions. Therefore, a batch detention pond is proposed for this project within the Edwards Aquifer Contributing

Zone in order to detain the increase in runoff and release it at a rate equal to the existing flows. Stormwater is conveyed through the site via curb and gutter and a storm sewer system which routes it to the batch detention pond. The storm sewer system layout can be found in Attachment M. The water quality portion of the batch detention pond is designed per Texas Commission on Environmental Quality regulations and the associated required TSS load removal.

The required on-site water quality volume for the site is 13,061 cubic feet with a required storage for sediment of 2,612 cubic feet for a total required volume of 15,673 cubic feet. The provided on-site water quality volume in the batch detention pond is 16,728 cubic feet.

Utilities

Water service will be provided to this site by the West Travis County PUA. A small 6" water loop will provide service to the building and two fire hydrants.

Wastewater treatment is being performed by an on-site septic field. The design for the on-site sewage facility will conform with the requirements specified under 30 TAC Chapter 285. The suitability letter from the licensing authority is included as Attachment F.

Storm sewer infrastructure will be provided to capture and convey runoff to the water quality/detention pond. The storm sewer will generally consist of 18" and 24" reinforced concrete pipes, curb inlets, and junction boxes.

Erosion and Sedimentation Control

The site plan shall include the locations of all proposed erosion and sedimentation controls, the required tree protection areas, and the limits of construction for this development. Permanent erosion control will be achieved through revegetation of all disturbed areas. The owner and contractor are responsible for complying with the TCEQ TPDES General Permit.

Construction Plans

The construction plans can be found in Attachment M.

If you should have any further questions pertaining to this project or if you need further explanation, please feel free to call me at (512) 904-0505.

Jenna Sollner, P.E.
Project Manager

Attachment D:
Factors Affecting Surface Water Quality

The factors affecting the surface water quality will be the proposed impervious cover and therefore the inherent pollutants from that development. The proposed impervious cover includes the streets, driveways, building, parking, and associated access drives.

Attachment E:
Volume and Character of Stormwater

The site is situated on sloping topography, typically around plus or minus 2 to 10 percent. This site is not located within the floodplain. The existing site is comprised of native grasses, brush, and trees. The entirety of the site is located within the Contributing Zone. The high point of the site is generally on the northeast and the site generally drains to the southwest. The site has been delineated into three distinct drainage areas – EX-1 which represents the flows that ultimately discharge to the southern property line into the ditch alongside US 290, EX-2 which represents flows that discharge to the west property line onto the existing paving of the neighboring site, and EX-3 which represents the flows that discharge to the west property line onto the yard area of the neighboring site. The study points at these locations are denoted SP-1, SP-2, and SP-3 respectively.

The addition of impervious cover increases the volume of stormwater; however, adverse impacts to water quality and quantity downstream are mitigated by the proposed BMP (Batch Detention Pond). The excess storm runoff will be captured by storm sewer infrastructure and be routed to the proposed BMP. The proposed site has been delineated into four distinct drainage areas, PR-1 (POND) which represents the majority of the site flowing to the batch detention pond, PR-1 (BYPASS) which represents portions of the drive and yard areas that flow to the southern property line but do not make it into the batch detention pond, PR-2 which represents developed flow from the yard area that flows towards SP-2, and PR-3 which represents developed flow from the yard area that flows towards SP-3.

Flows are reduced and no impervious is added at SP-2 and SP-3 in the proposed condition, thus no treatment or detention is necessary at these locations. The batch detention pond both overtreats and over-detains to account for the bypass to SP-1, ensuring that water quality and quantity requirements are met at SP-1. Flowrates in CFS for each study point are shown in the tables below. See Attachment M for drainage area maps corresponding to these calculations.

SP-1 FLOW RATES				
STORM EVENT (24 HR)	2-YR	10-YR	25-YR	100-YR
EXISTING	4.81	10.07	14.16	21.86
PROPOSED	4.17	8.73	13.72	21.81

SP-2 FLOW RATES				
STORM EVENT (24 HR)	2-YR	10-YR	25-YR	100-YR
EXISTING	3.42	7.12	9.99	15.39
PROPOSED	0.69	1.43	2.01	3.10

SP-3 FLOW RATES				
STORM EVENT (24 HR)	2-YR	10-YR	25-YR	100-YR
EXISTING	1.20	2.51	3.52	5.43
PROPOSED	0.32	0.67	0.93	1.44

Attachment F:
Suitability Letter from Authorized Agent

The sewage collection system will convey the wastewater to an on-site septic field. The suitability letter is attached.

Attachment G:
Alternative Secondary Containment Methods
(Not Applicable)

Attachment H:
AST Containment Structure Drawings
(Not Applicable)

Attachment I:
20% or Less Impervious Cover Waiver

The site will not be used for multi-family residential developments, schools, or small business sites and have 20% or less impervious cover.

Attachment J:
BMPs for Upgradient Stormwater

No surface water, groundwater or stormwater originates upgradient from the site and flows across the site.

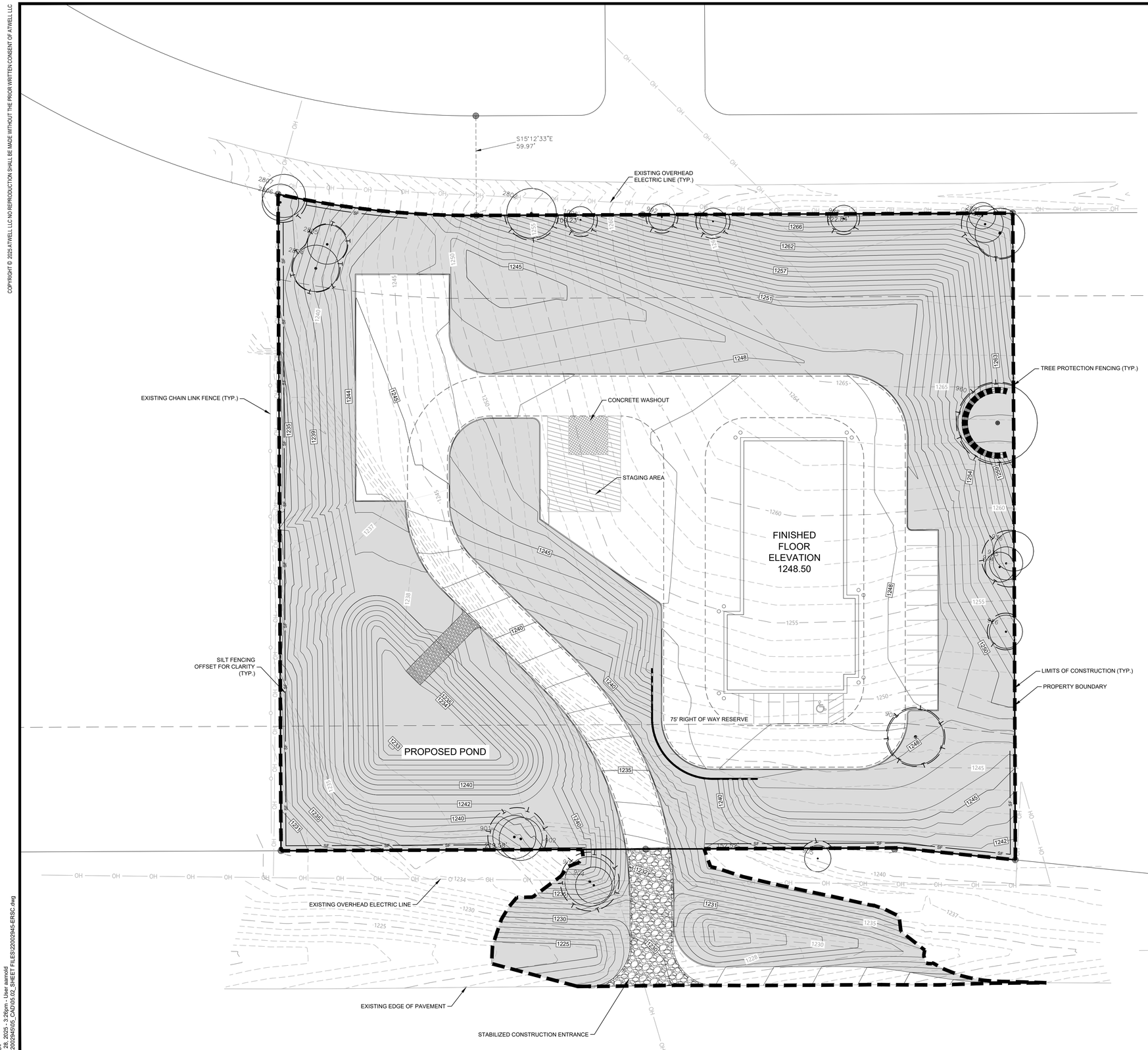
Attachment K:
BMPs for On-Site Stormwater

Due to the increase in impervious cover associated with this development, the flows experienced under post-developed conditions exceed the existing conditions. Therefore, a batch detention pond is proposed for this project within the Edwards Aquifer Contributing Zone within the Transition Zone in order to detain the increase in runoff and release it at a rate equal to the existing flows. The water quality portion of the batch detention pond will be designed per Texas Commission on Environmental Quality regulations and the associated TSS load removal.

The required on-site water quality volume for the site is 13,061 cubic feet with a required storage for sediment of 2,612 cubic feet for a total required volume of 15,673 cubic feet. The provided on-site water quality volume in the batch detention pond is 16,728 cubic feet

Attachment L:
BMPs for Surface Streams
(Not Applicable)

Attachment M:
Construction Plans



ATWELL
866.850.4200 www.atwell-group.com
1611 WEST 5TH STREET, SUITE 175
AUSTIN, TX 78703
512.943.0505

ATWELL #:

STATE OF TEXAS
JENNA N. SOLLNER
141666
LICENSED PROFESSIONAL ENGINEER
3.31.25

Know what's below. Call before you dig.

EWALD KUBOTA

3981 AND 3983 E US 290
DRIPPING SPRINGS
HAYS COUNTY, TX

EROSION CONTROL AND SEDIMENTATION PLAN

SCALE: AS NOTED
PROJECT MANAGER: JENNA SOLLNER
PROJECT ENGINEER: JENNA SOLLNER
DESIGNER: MIKE SHANNON
ISSUE DATE: 2/28/25

22x34
Feb 28, 2025 - 3:26pm - User aamold
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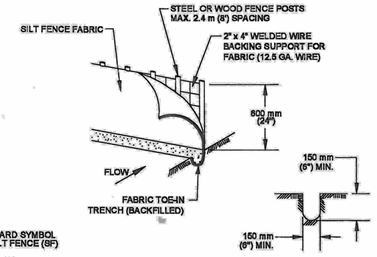


1. STEEL OR WOOD POSTS WHICH SUPPORT THE SILT FENCE SHALL BE INSTALLED ON A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE. POST MUST BE EMBEDDED A MINIMUM OF 300 mm (12 INCHES). IF WOOD POSTS CANNOT ACHIEVE 300 mm (12 Inches) DEPTH, USE STEEL POSTS.

2. THE TOE OF THE SILT FENCE SHALL BE TRENCHED IN WITH A SPADE OR MECHANICAL TRENCHER, SO THAT THE DOWNSLOPE FACE OF THE TRENCH IS FLAT AND PERPENDICULAR TO THE LINE OF FLOW.

3. THE TRENCH MUST BE A MINIMUM OF 150 mm (6 Inches) DEEP AND 150 mm (6 Inches) WIDE TO ALLOW FOR THE SILT FENCE FABRIC TO BE LAID IN THE GROUND AND BACKFILLED WITH COMPACTED MATERIAL.

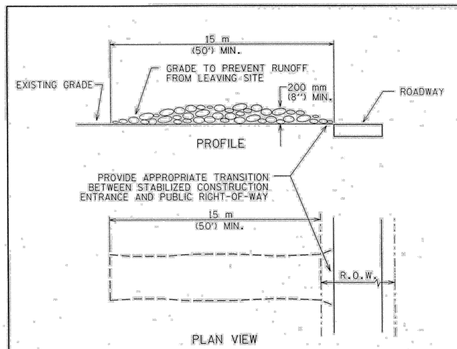
4. SILT FENCE FABRIC SHOULD BE SECURELY FASTENED TO EACH STEEL OR WOOD SUPPORT POST OR TO WOVEN WIRE , WHICH IS IN TURN ATTACHED TO THE STEEL OR WOOD FENCE POST.

5. INSPECTION SHALL BE MADE WEEKLY OR AFTER EACH RAINFALL EVENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTY AS NEEDED.

6. SILT FENCE SHALL BE REMOVED WHEN THE SITE IS COMPLETELY STABILIZED SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.

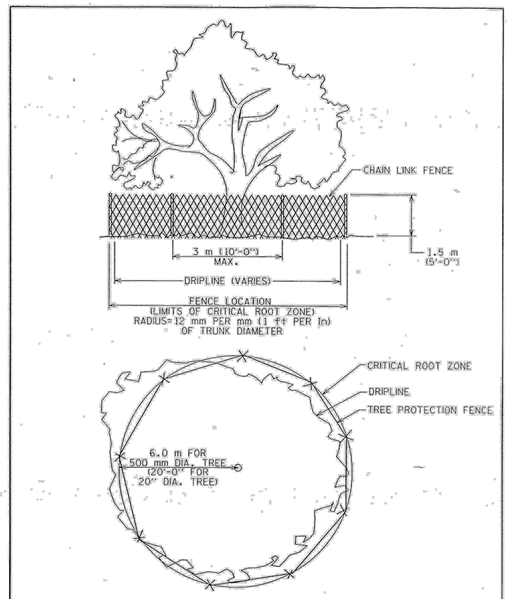
7. ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF 150 mm (6 Inches). THE SILT SHALL BE DISPOSED OF ON AN APPROVED SITE AND IN SUCH A MANNER THAT WILL NOT CONTRIBUTE TO ADDITIONAL SILTATION.

CITY OF AUSTIN WATERSHED PROTECTION DEPARTMENT	SILT FENCE	
9/1/2011 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 642S-1

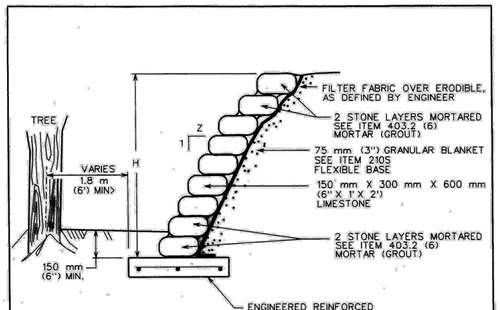


NOTES:
1. STONE SIZE: 75-125 mm (3-5") OPEN GRADED ROCK.
2. LENGTH: AS EFFECTIVE BUT NOT LESS THAN 15 m (50').
3. THICKNESS: NOT LESS THAN 200 mm (8").
4. WIDTH: NOT LESS THAN FULL WIDTH OF ALL POINTS OF INGRESS/EGRESS.
5. WASHING: WHEN NECESSARY, VEHICLE WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC ROADWAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE AND DRAINS INTO AN APPROVED TRAP OR SEDIMENT BASIN. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH OR WATERCOURSE USING APPROVED METHODS.
6. MAINTENANCE: THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC ROADWAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND, AS WELL AS REPAIR AND CLEAN OUT OF ANY MEASURE DEVICES USED TO TRAP SEDIMENT. ALL SEDIMENTS THAT IS SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC ROADWAY MUST BE REMOVED IMMEDIATELY.
7. DRAINAGE: ENTRANCE MUST BE PROPERLY GRADED OR INCORPORATE A DRAINAGE SWALE TO PREVENT RUNOFF FROM LEAVING THE CONSTRUCTION SITE.

CITY OF AUSTIN WATERSHED PROTECTION DEPARTMENT	STABILIZED CONSTRUCTION ENTRANCE	
5/23/06 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 641S-1



CITY OF AUSTIN WATERSHED PROTECTION DEPARTMENT	TREE PROPTECTION FENCE TYPE A - CHAIN LINK	
11/15/12 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 610S-2



THIS STANDARD APPLIES ONLY UNDER THE FOLLOWING CONDITIONS:
A. H AND Z ARE SPECIFIED ON THE DRAWING.
B. GROUNDWATER IS NO HIGHER THAN THE BOTTOM OF THE FOOTING.
C. THE MATERIAL BELOW THE FOOTING IS FIRM AND STABLE.
D. THE MATERIAL BEHIND THE WALL HAS A LEVEL SURFACE.
E. THE MATERIAL IN FRONT OF THE WALL HAS A SLOPE NO STEEPER THAN 4 HORIZONTAL TO 1 VERTICAL.
F. THE FACE OF THE WALL IS NO STEEPER THAN 1 HORIZONTAL TO 2 VERTICAL.
G. SURCHARGE LOADS BEHIND THE WALL ARE NO CLOSER THAN DISTANCE H FROM THE TOP OF WALL.

NOTES:
1. DESIGN AND CONSTRUCTION OF ROCK WALL SHALL CONFORM TO THE REQUIREMENTS OF CITY CODE 16-7-2, PLACEMENT OF FENCES IN STREET CORNER AREAS, AND THE CITY OF AUSTIN TRANSPORTATION CRITERIA MANUAL FOR MINIMUM SIGHT DISTANCE.
2. CONCRETE SHALL CONFORM TO ITEM 403S, "CONCRETE FOR STRUCTURES".

CITY OF AUSTIN DEPARTMENT OF WATERSHED PROTECTION AND DEVELOPMENT REVIEW	SLOPE PROTECTION AND TREE WELLS	
3/13/06 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 610S-6 1 OF 2

ATWELL
866.850.4200 www.atwell-group.com
1611 WEST 5TH STREET, SUITE 175
AUSTIN, TX 78703
512.943.0505

ATWELL #:

STATE OF TEXAS
JENNA N. SOLLNER
141666
LICENSED
PROFESSIONAL ENGINEER
3.31.25

811
Know what's below.
Call before you dig.

EWALD KUBOTA

3981 AND 3983 E US 290
DRIPPING SPRINGS
HAYS COUNTY, TX

EROSION CONTROL DETAILS

SCALE:
AS NOTED

PROJECT MANAGER:
JENNA SOLLNER

PROJECT ENGINEER:
JENNA SOLLNER

DESIGNER:
MIKE SHANNON

ISSUE DATE:
2/17/25

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Feb 17, 2025 - 10:39am - User aarnold
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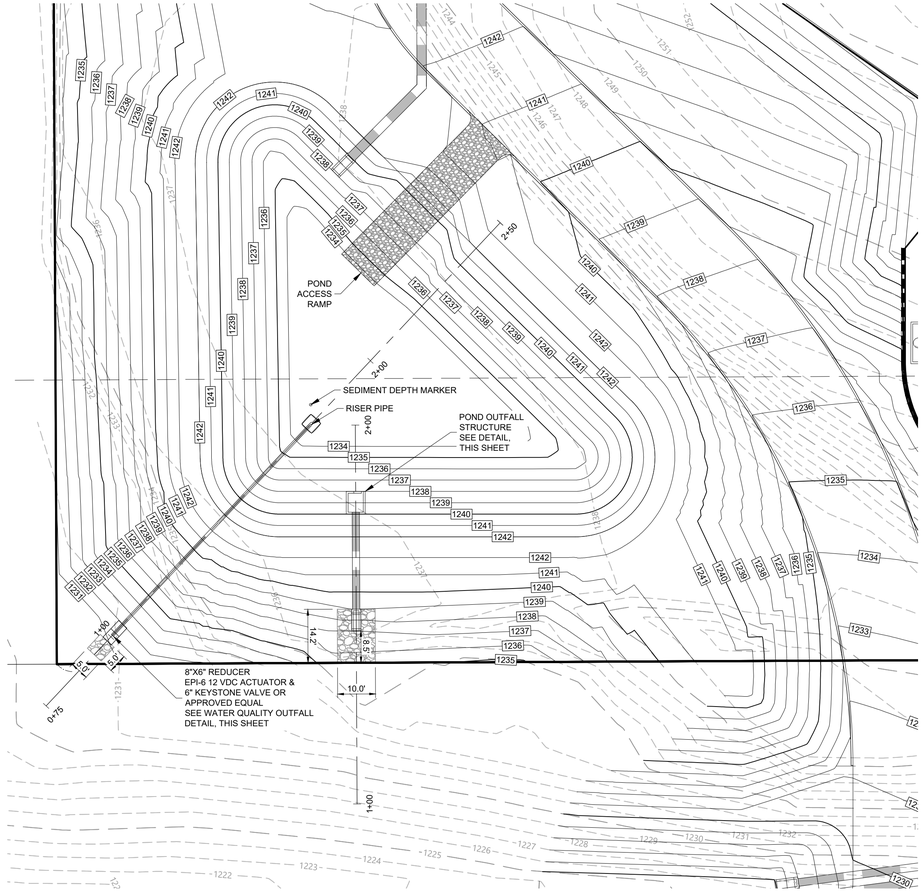
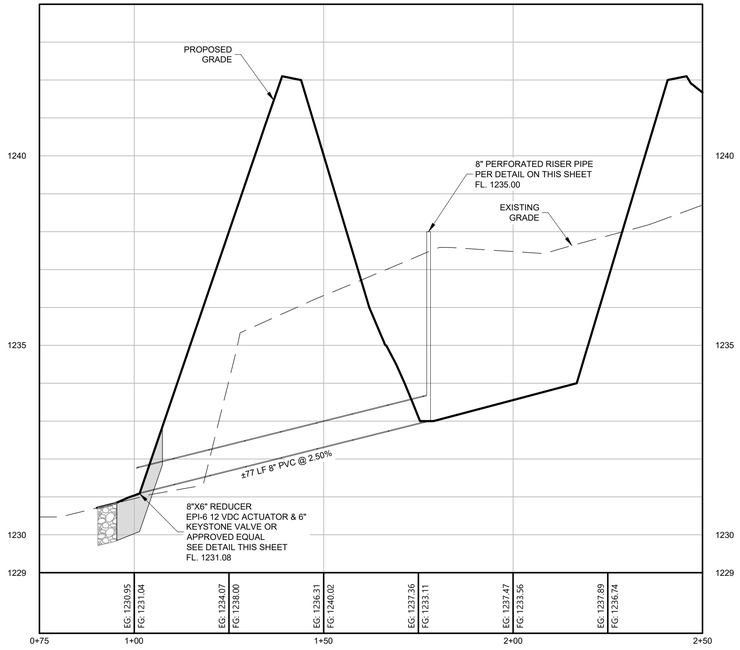


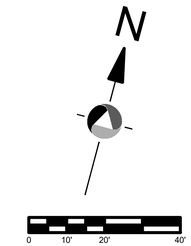


SECTION A-A PROFILE

HORZ SCALE: 1"=20'
VERT SCALE: 1"=2'

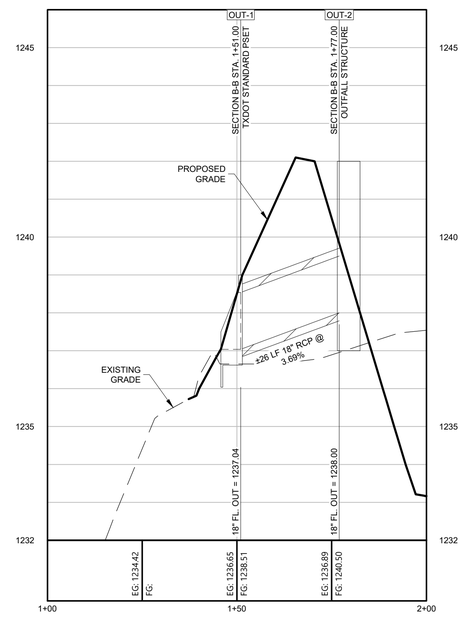
LEGEND

- 1250 — EXISTING MAJOR CONTOUR
- 1251 — EXISTING MINOR CONTOUR
- 1250 — PROPOSED MAJOR CONTOUR
- 1251 — PROPOSED MINOR CONTOUR



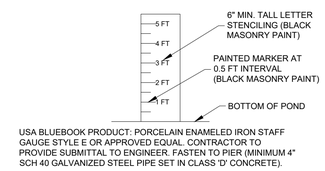
Pond Stage/Storage/Discharge								
Stage	Elev.	Area	Inc. Storage	Tot Storage	6" Weir	2' Weir	18" RCP	Tot Discharge
ft	ft	sq ft	cu ft	cu ft	cfs	cfs	cfs	cfs
0	1233	1	0	0	0.00	0.00	0.00	0.00
1	1234	2,240	1,121	1,121	0.00	0.00	0.00	0.00
2	1235	2,998	2,619	3,740	0.00	0.00	0.00	0.00
3	1236	3,875	3,437	7,176	0.00	0.00	0.00	0.00
4	1237	4,762	4,319	11,495	0.00	0.00	0.00	0.00
5	1238	5,705	5,234	16,728	0.00	0.00	0.00	0.00
6	1239	6,705	6,205	22,933	1.38	0.00	1.38	1.38
7	1240	7,762	7,234	30,167	4.03	0.00	4.03	4.03
8	1241	8,875	8,319	38,485	5.21	5.84	11.05	11.05
9	1242	10,045	9,460	47,945	5.21	9.56	14.77	14.77

Pond Data			
Storm Event	Water Surface El.	Freeboard	Flow Out of Pond
-	ft	ft	cfs
2	1239.46	2.54	2.50
10	1240.28	1.72	5.78
25	1240.73	1.27	9.33
100	1241.54	0.46	13.31



SECTION B-B PROFILE

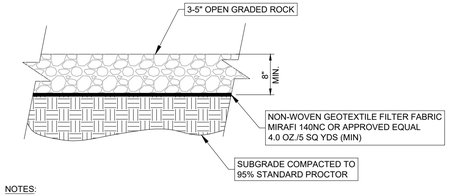
HORZ SCALE: 1"=20'
VERT SCALE: 1"=2'



USA BLUEBOOK PRODUCT: PORCELAIN ENAMELED IRON STAFF GAUGE STYLE E OR APPROVED EQUAL. CONTRACTOR TO PROVIDE SUBMITTAL TO ENGINEER. FASTEN TO PIER (MINIMUM 4" SCH 40 GALVANIZED STEEL PIPE SET IN CLASS 'D' CONCRETE).

SEDIMENT DEPTH MARKER DETAIL

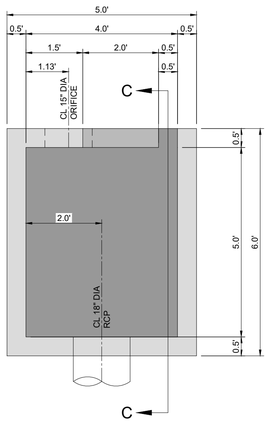
NTS



NOTES:
1. OVERLAP ADJOINING PIECES OF FILTER FABRIC BY AT LEAST 1 FT.
2. STONE SIZE: 75-125 MM (3-5") OPEN GRADED ROCK.
3. THICKNESS: NOT LESS THAN 200 MM (8").
4. WIDTH: NOT LESS THAN FULL WIDTH OF ALL POINTS OF INGRESS/EGRESS.

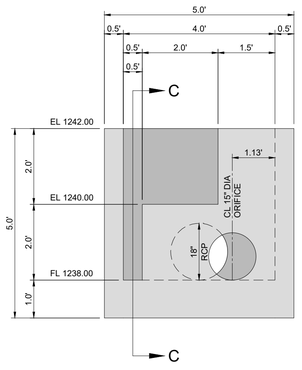
POND ACCESS ROAD DETAIL

NTS



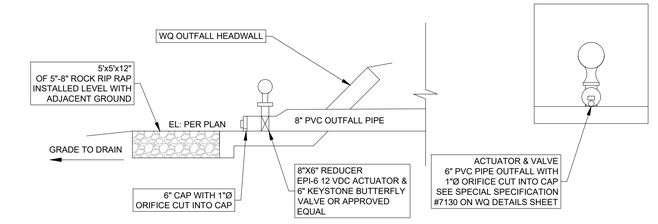
POND OUTFALL PLAN

1/2" = 1'-0"



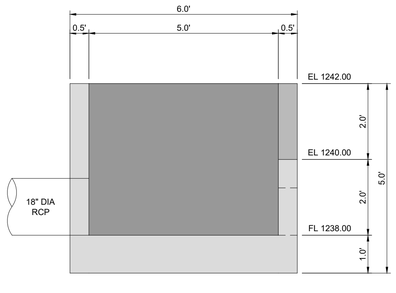
POND OUTFALL ELEVATION

1/2" = 1'-0"
LOOKING SOUTH



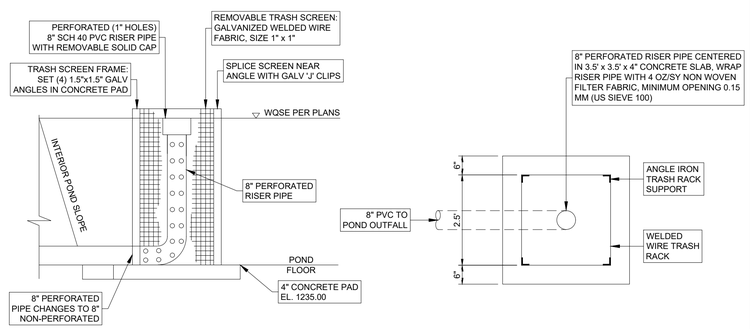
WATER QUALITY OUTFALL STRUCTURE DETAILS

NTS



SECTION C-C

1/2" = 1'-0"



RISER PIPE DETAILS

NTS

ATWELL
866.850.4200 www.atwell-group.com
1611 WEST 5TH STREET, SUITE 175
AUSTIN, TX 78703
512.904.0505

ATWELL #:

STATE OF TEXAS
JENNA N. SOLLNER
141666
LICENSED PROFESSIONAL ENGINEER
3.31.25

Know what's below. Call before you dig.

EWALD KUBOTA

3981 AND 3983 E US 290
DRIPPING SPRINGS
HAYS COUNTY, TX

POND PLAN

SCALE: AS NOTED
PROJECT MANAGER: JENNA SOLLNER
PROJECT ENGINEER: JENNA SOLLNER
DESIGNER: MIKE SHANNON
ISSUE DATE: 2/28/25

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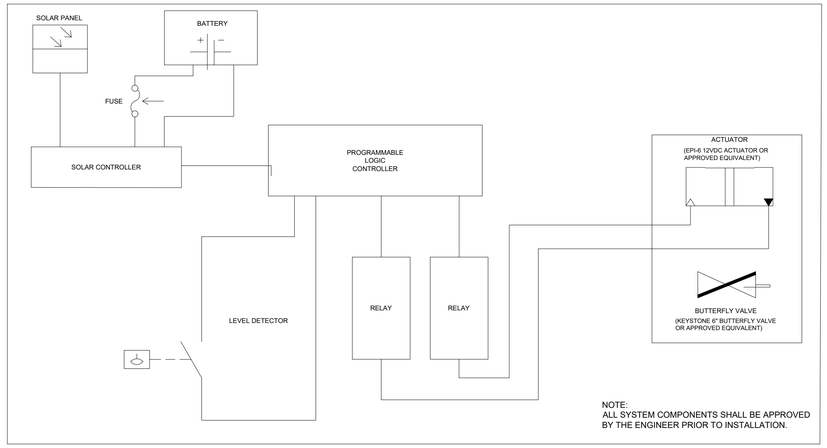
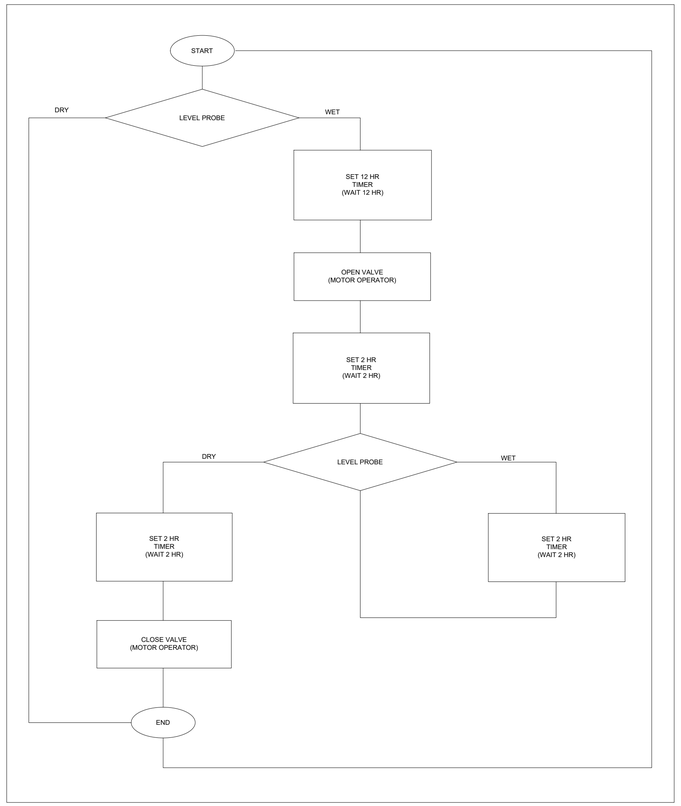


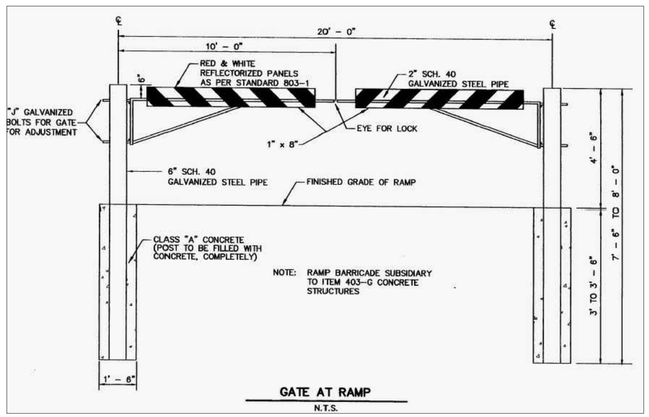
POND CONTROL BLOCK DIAGRAM
NTS



POND LEVEL CONTROL FLOW DIAGRAM
NTS

WATER QUALITY POND NOTES

1. WATER QUALITY POND SHALL BE MAINTAINED ACCORDING TO MAINTENANCE AGREEMENT ON RECORD AT TCEQ.
2. ALL POND BOTTOMS, SIDE SLOPES, AND EARTHEN EMBANKMENTS SHALL BE COMPACTED TO NINETY-FIVE (95) PERCENT MAXIMUM DENSITY, IN ACCORDANCE WITH TCEQ RG-348, 3-37. EXCAVATION AND EMBANKMENT SHALL BE IN COMPLIANCE WITH GEOTECHNICAL RECOMMENDATIONS. IF NOT SPECIFICALLY ADDRESSED IN GEOTECHNICAL REPORT, REFERENCE CITY OF AUSTIN SPECIFICATIONS.
3. MAINTENANCE EQUIPMENT ACCESS RAMP SHALL BE 12 FEET WIDE, NOT EXCEEDING 4H:1V.
4. BASIN LINING IS NOT REQUIRED OVER THE EDWARDS AQUIFER CONTRIBUTING ZONE. HOWEVER AN IMPERMEABLE LINER SHALL BE USED IF THE PRESENCE OF GROUNDWATER IS DISCOVERED. IMPERMEABLE LINERS MAY BE CLAY, CONCRETE OR GEOMEMBRANE. IF GEOMEMBRANE IS USED, SUITABLE GEOTEXTILE FABRIC (SEE RG-348 TABLE 3-7 PG 3-39) SHOULD BE PLACED ON THE TOP AND BOTTOM OF THE MEMBRANE FOR PUNCTURE PROTECTION AND THE LINERS COVERED WITH A MINIMUM OF 6 INCHES OF COMPACTED TOPSOIL. THE TOPSOIL SHOULD BE STABILIZED WITH APPROPRIATE VEGETATION. GEOMEMBRANE LINERS SHOULD HAVE A MINIMUM THICKNESS OF 30 MILS AND BE ULTRAVIOLET RESISTANT. CLAY LINERS SHOULD HAVE A MINIMUM THICKNESS OF 12 INCHES AND SHOULD MEET THE SPECIFICATIONS IN TABLE 3-6 OF TCEQ RG-348 PG 3-38. INSTALLATION METHODS VARY ACCORDING TO SITE REQUIREMENTS.
5. A FIXED VERTICAL SEDIMENT DEPTH MARKER SHOULD BE INSTALLED IN THE SEDIMENTATION BASIN TO INDICATE WHEN SEDIMENT ACCUMULATION EQUALS 20% OF THE WATER QUALITY VOLUME AND SEDIMENT REMOVAL IS REQUIRED. REFERENCE PLAN & DETAIL.
6. SAFETY IS PROVIDED BY MANAGING THE CONTOURS OF THE POND TO ELIMINATE DROPOFFS OR OTHER HAZARDS. EARTHEN SIDE SLOPES SHOULD NOT EXCEED 3:1 (H:V) AND SHOULD TERMINATE ON A FLAT SAFETY BENCH AREA.
7. CONTROLLER - THE CONTROLLER CONSISTS OF A LEVEL SENSOR IN THE DETENTION BASIN, A VALVE (WITH A DEFAULT CLOSED POSITION), AN ACTUATOR, AND THE ASSOCIATED CONTROL LOGIC. THE CONTROLLER DETECTS WATER FILLING THE BASIN FROM THE LEVEL SENSOR AND INITIATES A 12-HOUR DETENTION TIME. AT THE END OF THE REQUIRED DETENTION TIME, THE CONTROLLER OPENS THE VALVE AND DRAINS. SUBSEQUENT RAINFALL EVENTS THAT OCCUR PRIOR TO THE BASIN DRAINING SHOULD CAUSE THE VALVE TO REMAIN OPEN AND ALLOW THE ADDITIONAL STORMWATER RUNOFF TO PASS THROUGH THE BASIN. ONCE THE BASIN IS DRAINED THE CONTROLLER CLOSES THE VALVE. THE DRAWDOWN TIME OF THE BASIN SHOULD NOT EXCEED 48 HOURS FOR A SINGLE STORM EVENT AFTER THE 12 HOUR REQUIRED DETENTION TIME. ALL CABLES SHOULD BE PROTECTED BY CONDUIT AND BURIED TO PREVENT DAMAGE DURING MAINTENANCE ACTIVITIES. INFORMATION ON THE DESIGN AND CONFIGURATION OF AN EXISTING SYSTEM, INCLUDING THE SYSTEM SCHEMATIC, CAN BE VIEWED AT THE AUSTIN OR SAN ANTONIO REGIONAL OFFICES.



GATE AT RAMP
N.T.S.

MAINTENANCE ACCESS GATE
NTS

Texas Commission on Environmental Quality

TSS Removal Calculations 04-20-2009

Project Name: Ewald Kubota
Date Prepared: 2/28/2025

Additional information is provided for cells with a red triangle in the upper right corner. Place the cursor over the cell.
Text shown in blue indicate location of instructions in the Technical Guidance Manual - RG-348.
Characters shown in red are data entry fields.
Characters shown in black (Bold) are calculated fields. Changes to these fields will remove the equations used in the spreadsheet.

1. The Required Load Reduction for the total project: Calculations from RG-348 Pages 3-27 to 3-30

Page 3-29 Equation 3.3: $L_M = 27.2(A_N \times P)$

where:
$L_{M\ TOTAL\ PROJECT}$ = Required TSS removal resulting from the proposed development = 80% of increased load
A_N = Net increase in impervious area for the project
P = Average annual precipitation, inches

Site Data: Determine Required Load Removal Based on the Entire Project

County =	Hays	
Total project area included in plan * =	4.170	acres
Predevelopment impervious area within the limits of the plan * =	0.00	acres
Total post-development impervious area within the limits of the plan* =	1.467	acres
Total post-development impervious cover fraction * =	0.3518	
P =	33	inches
$L_{M\ TOTAL\ PROJECT}$ =	1317	lbs.

*** The values entered in these fields should be for the total project area.**

Number of drainage basins / outfalls areas leaving the plan area = 1

2. Drainage Basin Parameters (This information should be provided for each basin):

Drainage Basin/Outfall Area No. =

Total drainage basin/outfall area =	2.57	acres
Predevelopment impervious area within drainage basin/outfall area =	0.00	acres
Post-development impervious area within drainage basin/outfall area =	1.250	acres
Post-development impervious fraction within drainage basin/outfall area =	0.49	
$L_{M\ THIS\ BASIN}$ =	1122	lbs.

3. Indicate the proposed BMP Code for this basin.

Proposed BMP = Batch Detention
Removal efficiency = 91 percent

Aqualogic Cartridge Filter
Bioretention
Contech StormFilter
Constructed Wetland
Extended Detention
Grassy Swale
Retention / Irrigation
Sand Filter
Stormceptor
Vegetated Filter Strips
Vortechs
Wet Basin
Wet Vault

4. Calculate Maximum TSS Load Removed (L_R) for this Drainage Basin by the selected BMP Type.

RG-348 Page 3-33 Equation 3.7: $L_R = (\text{BMP efficiency}) \times P \times (A_I \times 34.6 + A_P \times 0.54)$

where:
A_C = Total On-Site drainage area in the BMP catchment area
A_I = Impervious area proposed in the BMP catchment area
A_P = Pervious area remaining in the BMP catchment area
L_R = TSS Load removed from this catchment area by the proposed BMP

A_C =	2.57	acres
A_I =	1.250	acres
A_P =	1.32	acres
L_R =	1320	lbs

5. Calculate Fraction of Annual Runoff to Treat the drainage basin / outfall area

Desired $L_{M\ THIS\ BASIN}$ = 1317 lbs.

F = 1.00

6. Calculate Capture Volume required by the BMP Type for this drainage basin / outfall area. Calculations from RG-348 Pages 3-34 to 3-36

Rainfall Depth =	4.00	inches
Post Development Runoff Coefficient =	0.35	
On-site Water Quality Volume =	13061	cubic feet

Calculations from RG-348 Pages 3-35 to 3-37

Off-site area draining to BMP =	0.00	acres
Off-site Impervious cover draining to BMP =	0.00	acres
Impervious fraction of off-site area =	0	
Off-site Runoff Coefficient =	0.00	
Off-site Water Quality Volume =	0	cubic feet
Storage for Sediment =	2612	
Total Capture Volume (required water quality volume(s) x 1.20) =	15673	cubic feet

ATWELL
866.850.4200 www.atwell-group.com
1611 WEST 5TH STREET, SUITE 175
AUSTIN, TX 78703
512.943.0505

ATWELL #:

STATE OF TEXAS
JENNA N. SOLLNER
141666
LICENSED PROFESSIONAL ENGINEER
3.31.25

Know what's below. Call before you dig.

EWALD KUBOTA

3981 AND 3983 E US 290
DRIPPING SPRINGS
HAYS COUNTY, TX

POND DETAILS (1 OF 2)

SCALE: AS NOTED
PROJECT MANAGER: JENNA SOLLNER
PROJECT ENGINEER: JENNA SOLLNER
DESIGNER: MIKE SHANNON
ISSUE DATE: 2/28/25

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Special Specification 7130
Batch Detention Pond

1. Description

Furnish, install, test, and make fully operational a Batch Detention Pond Control System as specified below or an engineer approved equal with appurtenances included hereafter at designated locations as shown on the plans. Approved equal equipment shall provide the same functionality and monitoring functions as the equipment specified below. Ensure the equipment, design, and construction use the latest available techniques with a minimum number of different parts, subassemblies, circuits, cards, and modules to maximize standardization and commonality.

For each solar power system located at each project site submit electrical load calculations, structural load calculations, drawings, and details. Include the structural connection details for solar panels, control panel, and battery enclosure to poles. Structural calculations shall be sealed by a licensed structural engineer in the state of Texas. Provide equipment data sheets, details, and specifications.

2. Materials

Provide all materials necessary for the installation of a Detention Pond Control System. Provide materials that comply with the details shown on the plans, the requirements of this Item, and the pertinent requirements of the following items:

- Item 416, "Drilled Shaft Foundation"
- Item 421, "Hydraulic Cement Concrete"
- Item 440, "Reinforcement for Concrete"
- Item 442, "Metal for Structures"
- Item 445, "Galvanizing"
- Item 449, "Anchor Bolts"
- Item 465, "Junction Boxes, Manholes and Inlets"
- Item 618 "Conduit"
- Item 620, "Electrical Conductors"
- Item 624, "Ground Boxes"
- Item 687, "Pedestal Pole Assemblies"

3. Equipment

Provide labor, equipment and materials to employ solar-generated, battery-backed power for the assigned field equipment specified in the plans, or as directed. Install all equipment, including batteries and solar charge controller, in a suitably sized enclosure or enclosures.

Size the enclosure to house the solar controller, batteries, and lightning protection equipment. Furnish a solar powered system that supplies and maintains 100% continuous and intermittent electrical loads for up to 24 hr. per day with autonomy of 3.6 days. Provide system as described in the plans, and generally consisting of the following:

- Photovoltaic (PV) modules with mounts or racks, and mounting brackets for affixing the modules to a pole as shown on the plans. Two year manufacturer's material and workmanship and twelve year 90% minimum power output warranties. Provide adjustable tilt mounts that can be repositioned to an appropriate angle to maximize seasonal solar radiation.
- 12 VDC sealed, valve-regulated, absorbed glass mat (AGM), maintenance-free batteries
- One toggle-type power switch or overcurrent protection device for emergency shutoff, and external conduit, wiring cable and conductors (as recommended by the supplier) between the following:
  - Photovoltaic module to controller panel
  - Battery interconnect and batteries to controller panel, and wiring between components in cabinet.

Pre-set the equipment, optimize photovoltaic module direction, and configure hardware components to allow automatic operation. Furnish and install a fully operational assembly with all cabling and terminations matched to support the selected components. Use the component sizing chart, Table 1 shown below to size the individual components (PV modules, batteries, etc.) based on the planned electrical load and days autonomy:

	COUNT	VDC	UNIT POWER (W)	HOURS PER DAY	TOTAL POWER (W-hr)
In-Situ, Inc. LevelTROLL 500 (Measuring)	1	12	0.048	0.0003	0.0000144
In-Situ, Inc. LevelTROLL 500 (Sleep Mode)	1	12	0.00216	23.9997	0.052
ISCO Signature Base Meter	1	12	1.628	24	39.072
Remote Hand Station	1	24	0.72	24	17.280
Control Valve	1	24	360	.025	9.000
				TOTAL	**65.404**

Table 1 Solar Power System Component Load Requirements

3.1. **PV Modules**. Supply and install the appropriate number and size of PV modules needed to meet the minimum power requirements shown in Table 1 or as required by the plans. Use photo voltaic USA (PVUSA) test conditions (PTC) ratings.

Supply industrial grade, mono-crystalline or poly-crystalline type solar modules. Consumer grade modules are not acceptable. Ensure that the PV modules meet the following minimum requirements:

- Minimum output voltage of 12 VDC.
- Minimum area efficiency rating of 9.4%.
- Include an ultraviolet (UV) resistant, Ingress Protection (IP) 65 rated junction box providing wire termination for 8-14 AWG wiring with the PV module.
- Hail impact resistance up to 1 in. diameter at 50 mi. per hr.
- UL 1703 listing.

Ensure PV modules, regardless of wattage size, shares common mounting holes for mounting so that a single mounting structure will accommodate the entire module line.

PV modules may be wired in "strings" of panels wired in series, which are then wired in parallel to other strings. Ensure that the open circuit voltage of any single string of PV modules does not exceed 127 V.

Construct PV modules with a tempered glass surface and an industrial grade anodized aluminum frame that completely surrounds and seals the module laminate. Ensure construction is consistent with the demands of installation near humid salt air environments.

Design and construct the photovoltaic module mounting assembly of galvanized steel (ASTM A-153 Class A) or aluminum. The mounting assembly must be of adequate design and strength to provide a means of securely attaching the PV module frame to a pole. Provide a mounting assembly capable of 360° horizontal orientation with a means of locking the bracket at an inscribed angular position about the pole. Ensure the mounting assembly is designed and installed to prevent module re-positioning during 110 mph wind conditions.

Label all PV modules with open-circuit voltage, operating (maximum power) voltage, maximum permissible voltage, operating (maximum power) current, short-circuit current, and maximum power.

Provide a warning label on all DC junction boxes warning that the active parts inside the boxes are fed by a PV array and may still be energized after isolation.

Mark each PV system disconnect as such. NEC 690.13(B).

3.2. **Solar Control Panel.** This panel shall contain the solar controller equipment, batteries, and block (plug) valve controls within the same or multiple enclosures. The enclosure or enclosures shall be pole-mounted, NEMA 3R, lockable, and 304 stainless steel construction. Provide a double flanged cabinet door opening. Provide cabinet with a Corbin style #2 lock with a keyhole cover as an integral part of the door and 2 keys. Provide cabinet with provisions to hold the door open at approximately 90° and 120° positions.

Provide louvers on each side of the cabinet to allow adequate cooling of the electronic components and to prevent the accumulation of gases. Provide screen vents that prevent entry of insects.

Provide an aluminum back panel in the lower compartment with a thickness of 0.125 in. Size the back panel to provide adequate space for the control electronics and terminal strips. Equip the cabinet with at least two shelves of a minimum thickness of 0.125 in, with a 1 in. x 3 in. cutout in the back of the shelves for cable run. Ensure that the shelves are capable of supporting design battery weight. Provide a rubber mat installed on each shelf that supports the batteries and two 1/8 in. drain holes located in the bottom of the cabinet at opposite corners. Provide a minimum of 2 in. of separation from the top of the battery posts to the bottom of the next shelf. Equip the cabinet with all necessary mounting equipment and hardware. Configure the cabinet for pole mounting using two aluminum "U" channel mounting brackets with stainless steel reinforcing plates on the inside of the cabinet. Include a 0.25 in. aluminum reinforcing plate mounted in the bottom of the cabinet. The supplier shall be Amerseco Solar as provided by C.C. Lynch & Associates, Inc., 1-800-333-2252, or engineer approved equal.

Solar Controller. The solar controller shall be capable of providing continuous 24 VDC power to the control valve and 12 VDC power to the LevelTROLL and Signature Base Station for the worst anticipated available daylight. The Controller shall be capable of operating in temperatures ranging from -40°C to 60°C and a humidity of 5% to 95% non-condensing. The Controller shall be a complete turn-key packaged system integrated by a single provider. The Controller supplier shall be regularly engaged in fabricating controllers of this type for a minimum of 5 years. The Contractor shall provide a list of Controller supplier(s) for approval. For calculating the daylight availability, the system design shall be based on the central Texas area with a useful minimum daily solar exposure of 4.19 hours.

3.3. **Batteries**. Provide maintenance free, spill proof, AGM batteries with the following minimum characteristics:

- 12 VDC,
- 80% allowable depth of discharge (DOD),

- rated for a minimum of 2,000 recharge cycles, and
- capacity rated at 77°F, 100 hr. discharge rate.

Supply appropriate number of batteries to ensure the minimum total amp-hours meets or exceeds the value in Table 1, as described in the plans, when wired in series. Label, with a UV resistant system, the battery bank with maximum operating voltage, equalization voltage, and polarity.

Arrange the system components so that all battery terminals are guarded and adequate working space is provided per (NEC) 690.71(B)(2) and (NEC)480.9.

Install current-limiting fuses on battery output circuits per (NEC) 690.71(C).

Provide overcurrent protection for the battery circuit conductors in conformance with (NEC) 690.9(A) and (NEC) 240.

Use battery interconnections with #4 AWG or larger flexible cables that are listed for hard-service use and are moisture resistant

3.4. **Control Valve Motor Operator Controller.** The control valve motor operator controller shall include timing and logic functions to control the basin plug valve based on sensing the presence of water in a pipe with an In-Situ, Inc. LevelTROLL 500 pressure transducer. The controller shall operate at 12VDC and shall include three wires that are internally connected to isolated relay contacts rated for 30 amps wired as a common, normally open, and normally closed. The controller shall poll the pressure transducer via MODBUS or SDI-12 at user selectable intervals and shall close the relay when water has been detected above a threshold for 12 hours. The pressure transducer shall be in "sleep mode" when not being polled in order to conserve power. The controller display shall be capable of a keypress timeout function in order to conserve power. The relay shall be opened when the water level detected by the pressure transducer drops below the threshold. The controller shall be capable of logging data internally which can be retrieved by USB thumb drive, laptop, cell modem, or Ethernet modem. The controller shall be model Teledyne ISCO Signature Base Station with a TIENet 304 Contact Output Card, and SPA 999 30 Amp alarm contacts. The pressure transducer shall be an In-Situ, Inc. LevelTROLL 500 (5 PSIG)). The LevelTROLL 500 shall be supplied with an NPT adapter and ISCO RuggedCable. Refer to plans for RuggedCable lengths.

The basin plug valve controls shall include the controls for the plug valve and the pressure transducer to detect water in the pipe. These controls shall contain, but not necessarily limited to, the control valve motor operator controller, relay box, terminal blocks, and control valve remote hand station. Configure controller to operate as diagrammed on the drawings.

3.5. **Remote Hand Station:** Provide a Remote Hand Station (RHS) to locally control the basin plug valve from solar control panel. The RHS shall be suitable for remote connection to an electric actuator up to 100m (330ft) distance, include local control facilities, a backlit LCD display and terminals for communication highway connection to the host actuator housed within a self-contained, double-sealed enclosure.

In order to maintain the integrity of the enclosure, setting of the actuator torque levels, position limits and configuration of the indication contacts etc. shall be carried out without the removal of any covers via a Bluetooth® wireless interface. Sufficient commissioning tools shall be provided with the actuators and must meet the enclosure protection and certification levels of the actuator and remote hand station. Commissioning tools shall not form an integral part of the actuator and must be removable for secure storage / authorized release. In addition, provision shall be made for the protection of configured actuator settings by a means independent of access to the commissioning tool. Provision shall be made to disable Bluetooth® communications or only allow a Bluetooth® connection initiated by an Infra-Red command for maximum security.

The RHS shall be suitable for indoor and outdoor use. The unit shall be capable of functioning in an ambient temperature ranging from -50°C (-58°F) to 70°C (158°F), up to 100% relative humidity. Actuators for

hazardous area applications shall meet the area classification, gas group and surface temperature requirements specified in data sheet.

RHS enclosure shall be O-ring sealed, watertight to IP66/IP68 7m for 72hrs, NEMA 4, 6. The internal electrical elements of the actuator shall be protected from ingress of moisture and dust when the terminal cover is removed for site for cabling, the terminal compartment having the same ingress protection rating as the actuator with the terminal cover removed. The RHS enclosure shall allow for temporary site storage without the need for electrical supply connection. All external fasteners shall be plated stainless steel. The use of un-plated stainless steel or steel fasteners is not permitted.

The RHS shall incorporate local controls for Open, Close and Stop and a Local/Stop/Remote mode selector switch lockable in any one of the following three positions: local control only, stop (no electrical operation), remote control plus local stop only. It shall be possible to select maintained or non-maintained local control. The local controls shall be arranged so that the direction of valve travel can be reversed without the necessity of stopping the actuator. Provision should be made to enable control arbitration between the RHS and the connected actuator. The local controls and display shall be rotatable through increments of 90 degrees to suit mounting orientation and access.

Power for the RHS shall be provided from the actuator and shall run in the same cable as the interconnecting communication. Independent power is not acceptable. Communication between the RHS and actuator should be based on a high-speed CAN bus technology.

3.6. The RHS display shall include a dedicated numeric/symbol digital position indicator displaying valve position from fully open to fully close in 0.1% increments. Valve closed and open positions shall be indicated by symbols showing valve position in relation to the pipework to ensure that valve status is clearly interpreted. With power connected, the display shall be backlit to enhance contrast at all ambient light levels and shall be legible from a distance of at least 5m (16ft). Red, green, and yellow LEDs corresponding to open, closed and intermediate valve positions shall be included on the RHS display when power is switched on. The yellow LED should also be fully programmable for on/off, blinker and fault indication. The RHS display shall include a fully configurable dot-matrix display element with a minimum pixel resolution of 168 x 132 to display operational, alarm, configuration and graphical datalogger information. The text display shall be selectable between English and other languages such as: Spanish, German, French, and Italian. Provision shall be made to upload a different language without removal of any covers or using specialized tools not provided as standard with the actuator. Datalogger graphical displays should as a minimum be able to display log and trend graphs on the local LCD for the following:

- Torque versus Position
- Number of Starts versus Position
- Number of starts per hour
- Average temperature

3.9.

3.10.

3.11.

The display shall be capable of indicating 4 different home-screens of the following configuration:

- Position and status
- Position and torque (analogue)
- Position and torque (digital)
- Position and demand (positioning)

Provision shall be made for the addition of an optional environmental cover to protect the display from high levels of UV radiation or abrasive materials.

The local controls and display shall be rotatable through increments of 90 degrees to suit valve and actuator orientation. A vandal-proof cover should be available to prevent un-authorized operation and to protect the LCD and window from damage.

Facilities shall be provided for monitoring actuator operation and availability directly from the RHS. Actuator datalogger information shall be accessed via non-intrusive Bluetooth® communication via the RHS and data displayed on the LCD. Sufficient standard intrinsically safe tools shall be provided for downloading datalogger and actuator configuration files from the actuators and subsequent uploading to a PC. The actuator manufacturer shall supply PC software to enable datalogger files to be viewed and analyzed

A terminal compartment shall be provided to enable interconnecting cables to be terminated without the removal of the main electronics cover. The terminal compartment shall be separated from the inner electrical components of the actuator by means of a watertight seal. All wiring supplied as part of the RHS to be contained within the main enclosure for physical and environmental protection.

A durable anodized aluminum nameplate shall be affixed to the RHS housing and contain all relevant serial and approval information.

Future Cellular Modem and Antenna. Provide provisions in solar control panel system for a future cellar modem The Modem shall be FCC approved and approved for CDMA networks such as Verizon. The modem shall be integral to the Teledyne ISCO Signature Base Station.

End User Interface. Provide provisions to allow for future offsite access and control of the Signature Base Station, at a minimum it shall be capable of remote access through cellular modem for online editing, email messaging via SMTP for statuses and alarms, remote monitoring and programming, and read/write data table access. In addition, the Signature Base Station shall have a MODBUS RS-485 output using ASCII or RTU transmission coding.

Batch Detention Outlet Structure. An outlet structure with duel hatch entry hatch for access shall be furnished and installed. The structure shall contain, but not necessarily limited to, 6" motor operated eccentric plug valve, 6" manual eccentric plug valve, connectors, pipe supports, pressure transducer, piping, conduit and a NEMA 4X junction box.

Perforated Riser Column and Outlet Pipe with Trash Rack. A perforated riser column shall be connected to an outlet pipe and installed with a trash rack as shown in the plans.

Vertical Sediment Depth Marker. A PVC pipe with wing channel post as shown in plans.

Grounding.

Ungrounded Systems. Include disconnects, overcurrent protection, and ground-fault protection. Provide equipment that is listed for use with ungrounded systems per NEC 690.35.

Module Grounding Connectivity. Provide module connections such that removal of a module does not interrupt a grounded conductor to another PV source circuit per NEC 620.49).

Ground-Fault Protection. Provide ground fault protection for grounded arrays per NEC 690.5.

PV System Grounding. Provide one grounded DC conductor for two-wire PV systems operating above 50 V per NEC 690.41.

Single Point. Provide DC grounding at a single point on the PV output circuit per NEC 690.42.

Equipment Grounding. Ground non-current-carrying metal components, including module frames, mounting structures, equipment, conduit, and boxes per NEC 690.43.

Equipment Grounding Conductors. Route equipment conductors with PV circuit conductors per NEC 690.43.

Equipment Grounding Conductor Size. If the array has ground fault protection, size the grounding conductor according to NEC 250.122. If not, size the grounding conductor to handle at least twice the derated circuit conductor ampacity per NEC 690.45.

Grounding Electrode Systems. Ground the AC system according to NEC 250.50 through 250.60. Ground the DC system according to NEC 250.166 through 250.169, and NEC 690.47.

Common Grounding. If the system includes both AC and DC systems, bond the grounding electrodes together. Size the bonding conductor for the larger of the AC and DC requirements per NEC 690.47(C).

3.12. **Disconnects**. Provide disconnects to disconnect equipment (batteries, solar controllers, etc.) from all ungrounded conductors of all power sources per NEC 690.15.

For fuses that are energized from both directions, provide disconnects to independently disconnect the fuse from all sources of power.

Provide disconnects to open all ungrounded conductors which are readily accessible, externally operated, have ON/OFF indications, and have appropriate interrupt ratings. Manually operated switches and circuit breakers are allowed to fulfill these requirements per NEC 690.17.

4. Construction

4.1. **Installation.** Provide equipment that utilizes the latest available techniques for design and construction with a minimum number of parts, subassemblies, and modules to maximize standardization and commonality.

4.2. **System Configuration.** Configure and fully integrate the equipment to provide a fully operational system.

4.3. **General.** Furnish and install all materials, including support, calibration and test equipment, to ensure an operating and functional solar power system. Install power and data cables, power grounding and lightning suppression systems. Prior to beginning installation, inspect each site to verify suitability of the design for installation, grounding and lightning protection. Provide written documentation to the Engineer for approval prior to installation.

4.4. Configure and setup the solar power system to assure connection and electric power delivery to the field equipment as indicated in the plans. Locate and mount all equipment as detailed in the plans and as directed by the Engineer.

4.5. **Wiring.** Provide wiring that meets the requirements of the NEC. Provide wires that are cut to proper length before assembly. Provide cable slacks to facilitate removal and replacement of assemblies, panels, and modules. It is not acceptable to "double-back" wire to take up slack. Lace wires neatly with nylon lacing or plastic straps. Secure cables with clamps. Provide service loops at connections.

4.6. Size all conductors for a de-rated ampacity of at least 125% of the maximum currents calculated. De-rating factors include high ambient temperatures and number of conductors run together within a conduit or cable, per NEC 690.8(B), 310.15(B) and 310.16. Single-conductor cables in sizes 16 AWG and 18 AWG are permitted for module interconnections if they meet the ampacity requirements.

4.7. Protect all conductors operating at more than 30 V and installed in readily accessible locations with conduit, per NEC 690.31(A).

Provide conductors rated for 194°F (90°C) and wet service per NEC 690.31(B).

Run PV source- and output-circuit conductors separately from conductors of other systems per NEC 690.31(B).

Color code all wiring. Mark grounded conductors white or gray. Use green, green/yellow or bare grounding conductors, per NEC 310.12.

Provide strain relief or conduit on all conductors per NEC 300.4.

4.8. **Poles**. Mount all PV units and cabinets on poles as shown on plans Provide poles as shown on plans for the height specified. Coordinate location of PV system pole with location of batch outlet structure. Ensure poles are located a maximum of 100m (330ft) from batch outlet structure.

4.9. **Testing.** Perform testing in accordance with, Special Specification 6005, "Testing, Training, Documentation, Final Acceptance, and Warranty. Test the system at the factory and in the field to assure proper function operation.

5. Measurement

This Item will be measured as each Batch Detention Pond with control system installed, fully integrated and tested.

6. Payment

The work performed and materials furnished in accordance with this Item and measured as provided under "Measurement" will be paid for at the unit price bid for "Batch Detention Pond". This price shall be full compensation for all equipment described under this item, all conduit, cables, and connectors, all documentation and testing, and furnishing all labor and equipment necessary to complete the work.

ATWELL
866.850.4200 www.atwell-group.com
1611 WEST 5TH STREET, SUITE 175
AUSTIN, TX 78703
512.904.0505

ATWELL #:

STATE OF TEXAS
JENNA N. SOLLNER
141666
LICENSED
PROFESSIONAL ENGINEER
3.31.25

811 Know what's below. Call before you dig.

EWALD KUBOTA

3981 AND 3983 E US 290
DRIPPING SPRINGS
HAYS COUNTY, TX

POND DETAILS (2 OF 2)

SCALE: AS NOTED
PROJECT MANAGER: JENNA SOLLNER
PROJECT ENGINEER: JENNA SOLLNER
DESIGNER: MIKE SHANNON
ISSUE DATE: 2/17/25

13 OF 18

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HIDDEN HILLS DR
(60' R.O.W.)

LEGEND

- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR

N

0 15' 30' 60'
SCALE: 1" = 30'

STRM-A3-S2
STRM-A3 STA. 1+90.00
4'x4' AREA INLET
FL 18" RCP = 1241.10

STRM-A3-S1
STRM-A3 STA. 1+40.00
18" 45° RCP BEND
FL 18" RCP = 1240.60

STRM-A1-S4
STRM-A1 STA. 2+57.52
STRM-A3 STA. 1+00.01
24"x24"x24" WYE
w/ 24"x18" REDUCER
FL 24" RCP IN = 1239.70
FL 18" RCP IN = 1240.20
FL 24" RCP OUT = 1239.70

STRM-A1-S5
STRM-A1 STA. 3+10.05
STRM-A4 STA. 1+00.00
4'x4' JUNCTION BOX
T/RIM = 1247.24
FL 18" RCP IN = 1241.22
FL 18" RCP IN = 1241.22
FL 24" RCP OUT = 1240.22

STRM-A1-S6
STRM-A1 STA. 5+04.73
18" 45° RCP BEND
FL 18" RCP = 1242.20

STRM-A1-S3
STRM-A1 STA. 2+37.54
24" 45° RCP BEND
FL 24" RCP = 1239.50

STRM-A4-S2
STRM-A4 STA. 1+51.94
18" 45° RCP BEND
FL 18" RCP = 1241.74

STRM-A1-S7
STRM-A1 STA. 5+35.13
10' CURB INLET
FL 18" RCP = 1242.35

STRM-A2-S1
STRM-A2 STA. 1+46.00
10' CURB INLET
FL 18" RCP = 1239.37

STRM-A4-S3
STRM-A4 STA. 1+64.06
10' CURB INLET
FL 18" RCP = 1241.86

STRM-A1-S8
STRM-A1 STA. 5+61.62
18" 45° RCP BEND
FL 18" RCP = 1242.48

STRM-A1-S2
STRM-A1 STA. 1+94.68
STRM-A2 STA. 1+00.00
4'x4' JUNCTION BOX
T/RIM = 1244.52
FL 24" RCP IN = 1239.07
FL 18" RCP IN = 1238.91
FL 24" RCP OUT = 1238.41

FINISHED
FLOOR
ELEVATION
1248.50

STRM-A1-S9
STRM-A1 STA. 6+48.40
10' CURB INLET
FL 18" RCP = 1242.91

STRM-A1-S1
STRM-A1 STA. 1+38.34
24" 45° RCP BEND
FL 24" RCP = 1238.13

STRM-A1-S0
STRM-A1 STA. 1+11.75
TXDOT STANDARD PSET

STRM-A1-S12
STRM-A1 STA. 8+85.71
10' CURB INLET
FL 18" RCP = 1244.10

STRM-A1-S11
STRM-A1 STA. 8+32.69
18" 45° RCP BEND
FL 18" RCP = 1243.83

STRM-A1-S10
STRM-A1 STA. 7+55.39
10' CURB INLET
FL 18" RCP = 1243.45

PROPOSED POND

50.0' BLDG. LINE

75.0' R.O.W. RESERVE

US HWY 290 E
(250' R.O.W.)

ATWELL
866.850.4200 www.atwell-group.com
1611 WEST 5TH STREET, SUITE 175
AUSTIN, TX 78703
512.904.0505

ATWELL #:

STATE OF TEXAS
JENNA N. SOLLNER
141666
LICENSED
PROFESSIONAL ENGINEER
3.31.25

Know what's below.
Call before you dig.

EWALD KUBOTA

3981 AND 3983 E US 290
DRIPPING SPRINGS
HAYS COUNTY, TX

STORM SEWER PLAN

SCALE:
AS NOTED

PROJECT MANAGER:
JENNA SOLLNER

PROJECT ENGINEER:
JENNA SOLLNER

DESIGNER:
MIKE SHANNON

ISSUE DATE:
2/28/25

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Attachment N:
Inspection, Maintenance, Repair and Retrofit Plan

BEST MANAGEMENT PRACTICES INTRODUCTION:
The Batch Detention Basins for this site is a requirement for the development to be in compliance with TCEQ regulations. This plan is designed to assist the Owner, and their assigns, in the scheduled routine maintenance of the pond in order to generally comply with regulatory requirements. This site is located within the Edwards Aquifer Contributing Zone, and as such, stormwater runoff from the site could potentially enter into the Edward's Aquifer.

BATCH DETENTION BASINS:
A batch detention basin is an extended detention basinmodified to operate as a batch reactor. A description of a batch detention basin is a series of depressed basins. The first basin temporarily stores a portion of stormwater runoff following a storm event. The collected discharge is controlled by a valve connected to the outlet structure of the first detention basin. The valve is closed between storm events. A controller opens the valve and releases the captured runoff into the second basin after a 12-hour detention time, and closes the valve after the first basin has drained. As in an extended detention basin, the batch detention basin is primarily used to remove particulate pollutants and to reduce maximum runoff rates associated with development to their pre-development levels. Batch detention basins have superior water quality performance than traditional extended detention basins and achieve a total suspended solids (TSS) removal efficiency of 91%. Batch detention basins do not have a permanent water pool between storm events.

These devices require less area and hydraulic head than sand filters, and provide similar TSS removal. The detention basins may be berm-encased areas, excavated basins, or buried tanks, although the latter are not preferred in most situations (below grade configurations will only be acceptable for sites of less than 5 acres).

MAINTENANCE:
Batch detention basins may have somewhat higher maintenance requirements than an extended detention basin since they are active stormwater controls. The maintenance activities are identical to those of extended detention basins with the addition of maintenance and inspections of the automatic controller and the valve at the outlet.

There are many factors that may affect the basin's operation and that should be periodically checked. These factors can include mowing, control of pond vegetation, removal of accumulated bottom sediments, removal of debris from all inflow and outflow structures, unclogging of orifice perforations, and the upkeep of all physical structures that are within the detention pond area. One should conduct periodic inspections and after each significant storm. Remove floatables and correct erosion problems in the pond slopes and bottom. Pay particular attention to the outlet control perforations for signs of clogging. If the orifices are clogged, remove sediment and other debris. The generic aspects that must be considered in the maintenance plan for a detention facility are as follows:

☐ *Inspections.* Inspections should take place a minimum of twice a year. One inspection should take place during wet weather to determine if the basin is meeting the target detention time of 12 hours and a drawdown time of no more than 48 hours. The remaining inspections should occur between storm events so that manual operation of the valve and controller can be verified. The level sensor in the basin should be inspected and any debris or sediment in the area should be removed. The outlet structure and the trash screen should be inspected for signs of clogging. Debris and sediment should be removed from the orifice and outlet(s) as described in previous sections. Debris obstructing the valve should be removed. During each inspection, erosion areas inside and downstream of this BMP should be identified and repaired/revegetated immediately.

☐ *Mowing.* The basin, basin side-slopes, and embankment of the basin must be mowed to prevent woody growth and control weeds. A mulching mower should be used, or the grass clippings should be caught and removed. Mowing should take place at least twice a year, or more frequently if vegetation exceeds 18 inches in height. More frequent mowing to maintain aesthetic appeal may be necessary in landscaped areas.

☐ *Litter and Debris Removal.* Litter and debris removal should take place at least twice a year, as part of the periodic mowing operations and inspections. Debris and litter should be removed from the surface of the basin. Particular attention should be paid to floatable debris around the outlet structure. The outlet should be checked for possible clogging or obstructions and any debris removed.

☐ *Erosion control.* The basin side slopes and embankment all may periodically suffer from slumping and erosion. To correct these problems, corrective action, such as regrading and revegetation, may be necessary. Correction of erosion control should take place whenever required based on the periodic inspections.

☐ *Nuisance Control.* Standing water or soggy conditions may occur in the basin. Some standing water may occur after a storm event since the valve may close with 2 to 3 inches of water in the basin. Some flow into the basin may also occur between storms due to spring flow and residential water use that enters the storm sewer system. Twice a year, the facility should be evaluated in terms of nuisance control (insects, weeds, odors, algae, etc.).

☐ *Structural Repairs and Replacement.* With each inspection, any damage to structural elements of the basin (pipes, concrete drainage structures, retaining walls, etc.) should be identified and repaired immediately. An example of this type of repair can include patching of cracked concrete, sealing of voids, removal of vegetation from cracks and joints. The various inlet/outlet structures in a basin will eventually deteriorate and must be replaced.

☐ *Sediment Removal.* A properly designed batch detention basin will accumulate quantities of sediment over time. The accumulated sediment can detract from the appearance of the facility and reduce the pollutant removal performance of the facility. The sediment also tends to accumulate near the outlet structure and can

interfere with the level sensor operation. Sediment shall be removed from the basin at least every 5 years, when sediment depth exceeds 6 inches, when the sediment interferes with the level sensor or when the basin does not drain within 48 hours. Care should be taken not to compromise the basin lining during maintenance.

☐ *Logic Controller.* The Logic Controller should be inspected as part of the twice yearly investigations. Verify that the external indicators (active, cycle in progress) are operating properly by turning the controller off and on, and by initiating a cycle by triggering the level sensor in the basin. The valve should be manually opened and closed using the open/close switch to verify valve operation and to assist in inspecting the valve for debris. The solar panel should be inspected and any dust or debris on the panel should be carefully removed. The controller and all other circuitry and wiring should be inspected for signs of corrosion, damage from insects, water leaks, or other damage. At the end of the inspection, the controller should be reset.

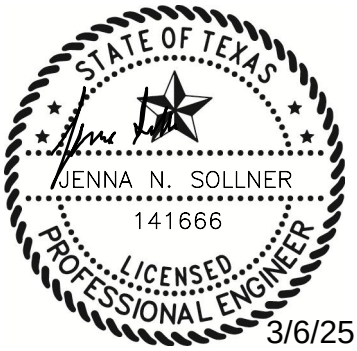
RECORDS:
Complete records of inspections, maintenance, and repairs must be kept on file by the owner, which will include:

☐ Records from previous owners
☐ Dated explanations of any circumstances under which the extended detention facility (EDF) was not functioning properly
☐ Dated description of maintenance and repair work performed during the life of the EDF, such as removal of sediment or other materials, repair or replacement of any components of the EDF, and names of any contractor(s) performing such work
☐ Documentation of disposal of any removed sedimentation or other materials

MAINTENANCE AND OPERATION:
The holding pond (see the plans for location) receives all the stormwater from the water quality basins serving the site. Over a period of time the pond may accumulate solids in the form of fine particulates and organic dirt. When a large amount of the broken-down solids accumulate, they must be removed to extend the life of the pond. Such conditions are a potential hazard and costly repairs and/or fines may result. Therefore, the maintenance of the pond system is very important.

- Documentation that all system components have been inspected after every rainfall event greater than 1.5

DESIGN PROFESSIONAL ENGINEER:
Name: Jenna Sollner, PE – Atwell, LLC
Phone: (512) 904-0505
Signature and Seal:



3/6/25

GENERAL OWNER RESPONSIBILITY:
The OWNER or SUBSEQUENT OWNER shall bear all expenses for the operation and maintenance of this system including but not limited to all general maintenance activities needed to keep this system in proper operating condition. If this system is abused or not maintained, then it may contribute to malfunction of the stormwater system.

You as the OWNER of this property have a responsibility to provide any SUBSEQUENT OWNER or your real estate agent with a copy of this OWNER OPERATION and MAINTENANCE MANUAL if this facility is sold so that this pond can be properly maintained and operated. The same rights, duties, and responsibilities borne by the current OWNER shall be borne by each subsequent OWNER.

Like everything else, your pond and its components have a life expectancy. If properly operated and maintained, the system should last for many trouble-free years.

OWNER ACKNOWLEDGMENT AND ACCEPTANCE:

Name (Printed): John Ewald Phone: (830) 305-1648

Signature: _____ Date: 3-7-25

Attachment O:
Pilot-Scale Field Testing Plan
(Not Applicable)

Attachment P:
Measures for Minimizing Surface Contamination
(Not Applicable)

Temporary Stormwater Section (TCEQ-0602)

Temporary Stormwater Section

Texas Commission on Environmental Quality

for Regulated Activities on the Edwards Aquifer Recharge Zone and Relating to 30 TAC §213.5(b)(4)(A), (B), (D)(I) and (G); Effective June 1, 1999

To ensure that the application is administratively complete, confirm that all fields in the form are complete, verify that all requested information is provided, consistently reference the same site and contact person in all forms in the application, and ensure forms are signed by the appropriate party.

Note: Including all the information requested in the form and attachments contributes to more streamlined technical reviews.

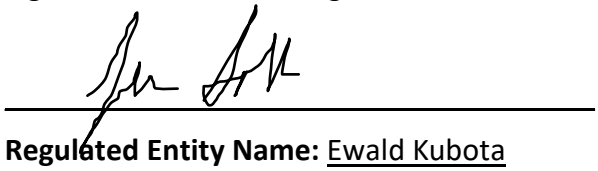
Signature

To the best of my knowledge, the responses to this form accurately reflect all information requested concerning the proposed regulated activities and methods to protect the Edwards Aquifer. This **Temporary Stormwater Section** is hereby submitted for TCEQ review and executive director approval. The application was prepared by:

Print Name of Customer/Agent: Jenna Sollner, PE

Date: 3/6/25

Signature of Customer/Agent:



Regulated Entity Name: Ewald Kubota

Project Information

Potential Sources of Contamination

Examples: Fuel storage and use, chemical storage and use, use of asphaltic products, construction vehicles tracking onto public roads, and existing solid waste.

1. Fuels for construction equipment and hazardous substances which will be used during construction:

   ☐ The following fuels and/or hazardous substances will be stored on the site: _____

   These fuels and/or hazardous substances will be stored in:

   ☐ Aboveground storage tanks with a cumulative storage capacity of less than 250 gallons will be stored on the site for less than one (1) year.

☐ Aboveground storage tanks with a cumulative storage capacity between 250 gallons and 499 gallons will be stored on the site for less than one (1) year.

☐ Aboveground storage tanks with a cumulative storage capacity of 500 gallons or more will be stored on the site. An Aboveground Storage Tank Facility Plan application must be submitted to the appropriate regional office of the TCEQ prior to moving the tanks onto the project.

☒ Fuels and hazardous substances will not be stored on the site.

2. ☒ **Attachment A - Spill Response Actions**. A site specific description of the measures to be taken to contain any spill of hydrocarbons or hazardous substances is attached.

3. ☐ Temporary aboveground storage tank systems of 250 gallons or more cumulative storage capacity must be located a minimum horizontal distance of 150 feet from any domestic, industrial, irrigation, or public water supply well, or other sensitive feature.

4. ☒ **Attachment B - Potential Sources of Contamination**. A description of any activities or processes which may be a potential source of contamination affecting surface water quality is attached.

Sequence of Construction

5. ☒ **Attachment C - Sequence of Major Activities**. A description of the sequence of major activities which will disturb soils for major portions of the site (grubbing, excavation, grading, utilities, and infrastructure installation) is attached.

☒ For each activity described, an estimate (in acres) of the total area of the site to be disturbed by each activity is given.

☒ For each activity described, include a description of appropriate temporary control measures and the general timing (or sequence) during the construction process that the measures will be implemented.

6. ☒ Name the receiving water(s) at or near the site which will be disturbed or which will receive discharges from disturbed areas of the project: Onion Creek

Temporary Best Management Practices (TBMPs)

Erosion control examples: tree protection, interceptor swales, level spreaders, outlet stabilization, blankets or matting, mulch, and sod. Sediment control examples: stabilized construction exit, silt fence, filter dikes, rock berms, buffer strips, sediment traps, and sediment basins. Please refer to the Technical Guidance Manual for guidelines and specifications. All structural BMPs must be shown on the site plan.

7. ☒ **Attachment D – Temporary Best Management Practices and Measures**. TBMPs and measures will prevent pollution of surface water, groundwater, and stormwater. The construction-phase BMPs for erosion and sediment controls have been designed to retain sediment on site to the extent practicable. The following information is attached:

☐ A description of how BMPs and measures will prevent pollution of surface water, groundwater or stormwater that originates upgradient from the site and flows across the site.

☐ A description of how BMPs and measures will prevent pollution of surface water or groundwater that originates on-site or flows off site, including pollution caused by contaminated stormwater runoff from the site.

☒ A description of how BMPs and measures will prevent pollutants from entering surface streams, sensitive features, or the aquifer.

☐ A description of how, to the maximum extent practicable, BMPs and measures will maintain flow to naturally-occurring sensitive features identified in either the geologic assessment, TCEQ inspections, or during excavation, blasting, or construction.

8. ☒ The temporary sealing of a naturally-occurring sensitive feature which accepts recharge to the Edwards Aquifer as a temporary pollution abatement measure during active construction should be avoided.

☐ **Attachment E - Request to Temporarily Seal a Feature**. A request to temporarily seal a feature is attached. The request includes justification as to why no reasonable and practicable alternative exists for each feature.

☒ There will be no temporary sealing of naturally-occurring sensitive features on the site.

9. ☒ **Attachment F - Structural Practices**. A description of the structural practices that will be used to divert flows away from exposed soils, to store flows, or to otherwise limit runoff discharge of pollutants from exposed areas of the site is attached. Placement of structural practices in floodplains has been avoided.

10. ☒ **Attachment G - Drainage Area Map**. A drainage area map supporting the following requirements is attached:

☐ For areas that will have more than 10 acres within a common drainage area disturbed at one time, a sediment basin will be provided.

☐ For areas that will have more than 10 acres within a common drainage area disturbed at one time, a smaller sediment basin and/or sediment trap(s) will be used.

☐ For areas that will have more than 10 acres within a common drainage area disturbed at one time, a sediment basin or other equivalent controls are not attainable, but other TBMPs and measures will be used in combination to protect down slope and side slope boundaries of the construction area.

☐ There are no areas greater than 10 acres within a common drainage area that will be disturbed at one time. A smaller sediment basin and/or sediment trap(s) will be used in combination with other erosion and sediment controls within each disturbed drainage area.

☒ There are no areas greater than 10 acres within a common drainage area that will be disturbed at one time. Erosion and sediment controls other than sediment basins or sediment traps within each disturbed drainage area will be used.

11. ☐ **Attachment H - Temporary Sediment Pond(s) Plans and Calculations**. Temporary sediment pond or basin construction plans and design calculations for a proposed temporary BMP or measure have been prepared by or under the direct supervision of a Texas Licensed Professional Engineer. All construction plans and design information must be signed, sealed, and dated by the Texas Licensed Professional Engineer. Construction plans for the proposed temporary BMPs and measures are attached.

☒ N/A

12. ☒ **Attachment I - Inspection and Maintenance for BMPs.** A plan for the inspection of each temporary BMP(s) and measure(s) and for their timely maintenance, repairs, and, if necessary, retrofit is attached. A description of the documentation procedures, recordkeeping practices, and inspection frequency are included in the plan and are specific to the site and/or BMP.

13. ☒ All control measures must be properly selected, installed, and maintained in accordance with the manufacturer's specifications and good engineering practices. If periodic inspections by the applicant or the executive director, or other information indicate a control has been used inappropriately, or incorrectly, the applicant must replace or modify the control for site situations.

14. ☒ If sediment escapes the construction site, off-site accumulations of sediment must be removed at a frequency sufficient to minimize offsite impacts to water quality (e.g., fugitive sediment in street being washed into surface streams or sensitive features by the next rain).

15. ☒ Sediment must be removed from sediment traps or sedimentation ponds not later than when design capacity has been reduced by 50%. A permanent stake will be provided that can indicate when the sediment occupies 50% of the basin volume.

16. ☒ Litter, construction debris, and construction chemicals exposed to stormwater shall be prevented from becoming a pollutant source for stormwater discharges (e.g., screening outfalls, picked up daily).

Soil Stabilization Practices

Examples: establishment of temporary vegetation, establishment of permanent vegetation, mulching, geotextiles, sod stabilization, vegetative buffer strips, protection of trees, or preservation of mature vegetation.

17. ☒ **Attachment J - Schedule of Interim and Permanent Soil Stabilization Practices**. A schedule of the interim and permanent soil stabilization practices for the site is attached.

18. ☒ Records must be kept at the site of the dates when major grading activities occur, the dates when construction activities temporarily or permanently cease on a portion of the site, and the dates when stabilization measures are initiated.

19. ☒ Stabilization practices must be initiated as soon as practicable where construction activities have temporarily or permanently ceased.

Administrative Information

20. ☒ All structural controls will be inspected and maintained according to the submitted and approved operation and maintenance plan for the project.

21. ☒ If any geologic or manmade features, such as caves, faults, sinkholes, etc., are discovered, all regulated activities near the feature will be immediately suspended. The appropriate TCEQ Regional Office shall be immediately notified. Regulated activities must cease and not continue until the TCEQ has reviewed and approved the methods proposed to protect the aquifer from any adverse impacts.

22. ☒ Silt fences, diversion berms, and other temporary erosion and sediment controls will be constructed and maintained as appropriate to prevent pollutants from entering sensitive features discovered during construction.

Attachment A:
Spill Response Actions

Fuel and hazardous substances will not be stored on-site. Sources of spills would include accidents during refueling operations or damage to mechanical equipment. In addition to general care and good "housekeeping" practices, the following practices will be followed for accidental spill prevention and cleanup:

1. Site and construction personnel will be required to be aware of manufacturer's recommended methods for spill cleanup, the location of information, and cleanup supplies.

2. Materials and equipment necessary for spill cleanup will be kept on-site in an accessible location known to site personnel.

3. All spills will be cleaned up immediately upon discovery.

4. All spills shall comply with Chapter 327, Spill Prevention and Control, Texas Commission on Environmental Quality, as adopted September 23, 1999. Call 1-800-832-8224 for spill reporting 24-hours a day.

5. In Texas, upon determining that a reportable discharge or spill has occurred, the responsible person must notify the state. The threshold quantity that triggers the requirement to report a spill is called the reportable quantity (RQ). The reportable quantity depends on the type of substance released and where released (e.g. into water vs. on land); different kinds of spills are subject to different provisions of state and federal rules. The following table provides RQ regulations.

Kind of spill	**Where discharged**	**Reportable quantity**	**Rule, statute, or responsible agency**
Hazardous substance	onto land	"Final RQ" in Table 302.4 in 40 CFR 302.4 (PDF)	30 TAC 327
	into water	"Final RQ" or 100 lbs, whichever is **less**	
Any oil	coastal waters	as required by the Texas General Land Office	Texas General Land Office
Crude oil, oil that is neither a petroleum product nor used oil	onto land	210 gallons (five barrels)	30 TAC 327

	directly into water	enough to create a sheen	
Petroleum product, used oil	onto land, from an exempt PST facility	210 gallons (five barrels)	30 TAC 327
	onto land, or onto land from a non-exempt PST facility	25 gallons	
	directly into water	enough to create a sheen	
Associated with the exploration, development and production of oil, gas, or geothermal resources	under the jurisdiction of the Railroad Commission of Texas	as required by the Railroad Commission of Texas	Railroad Commission of Texas
Industrial solid waste or other substances	into water	100 lbs	30 TAC 327
From petroleum storage tanks, underground or aboveground	into water	enough to create a sheen on water	30 TAC 334.75-81
From petroleum storage tanks, underground or aboveground	onto land	25 gallons or equal to the RQ under 40 CFR 302	30 TAC 327
Other substances that may be useful or valuable and are not ordinarily considered to be waste, but will cause pollution if discharged into water in the state	into water	100 lbs	30 TAC 327

Attachment B:
Potential Sources of Contamination

The materials/substances listed below are expected to be used on-site during construction:

1. Concrete and concrete products
2. Asphaltic products
3. Petroleum-based products
4. Paints
5. Fertilizers
6. Lumber

The following procedures are potential sources of contamination:

1. Earth grading
2. Installation of asphalt and concrete
3. Moving/Storage of soil
4. Construction traffic
5. Trenching for underground utilities

Attachment C:
Sequence of Major Activities

The following is the sequence of construction pertaining to the construction of site utilities, paving, and BMP installation for the Ewald Kubota project:
(Total Disturbed Area is approximately 4.17 acres)

1. Contact environmental and conservation services department. Schedule an on-site pre-construction meeting.
2. Install temporary erosion controls prior to any site clearing and grubbing.
3. Install tree protection and initiate tree mitigation measures.
4. Evaluate temporary erosion control installation. Review construction schedule with the erosion control plan.
5. Begin installation of utility services. Upon completion, restore as much disturbed area as possible, particularly channels and large open areas.
6. Rough grade site.
7. Begin installation of storm drainage. Upon completion, restore as much disturbed area as possible, particularly channels and large open areas.
8. Mid-construction on-site meeting to coordinate changes in construction schedule and evaluate effectiveness of erosion control plan (city inspector, project engineer, general contractor, environmental site manager). Identify anticipated completion date and coordinate final construction sequence and inspection schedule with environmental inspector.
9. Lay base and pave driveway modification.
10. Prepare building foundation according to geotechnical report.
11. Clean sediment and complete as per plans.
12. Complete all permanent erosion control.
13. Re-vegetate disturbed areas or complete a developer's contract for the re-vegetation along with the engineer's concurrence letter.
14. Project engineer inspects job and writes concurrence letter to the city. Final inspection is scheduled upon receipt or letter.
15. Remove temporary erosion/sedimentation controls.

Attachment D:
Temporary Best Management Practices and Measures

Silt fences shall be installed downstream of disturbed areas and around trees per the plan(s). A stabilized construction entrance shall be provided. The BMP shall be maintained and regularly inspected throughout the duration of all major construction activities until revegetation is complete. The revegetation shall be deemed complete when coverage is 85% on slopes of 0-5% and 95% on areas exceeding 5% slope with no bare areas greater than ten (10) square feet.

See Attachment C for the sequence of major activities. The contractor will be required to confine his work within the limits of construction, approximately 4.17 acres.

Pollutants will be prevented from reaching surface streams and sensitive features through limiting site disturbance and the use of silt fencing.

Further detail of temporary best management practices and measures are included in the construction plan attachment as Sheets - Erosion Sedimentation Control Plan, and Erosion and Sedimentation Details.

Attachment E:
Request to Temporarily Seal a Feature
(Not Applicable)

Attachment F:
Structural Practices
(Not Applicable)

Attachment G:
Drainage Area Map

See the construction plans located in Attachment M.

Attachment H:
Temporary Sedimentation Pond(s) Plans and Calculations
(Not Applicable)

Attachment I:
Inspection and Maintenance for Temporary BMPs

The following guidelines are for inspection and maintenance of the site specific temporary BMPs, detailed in Attachment D. Inspectors shall be familiar with the proposed BMPs and be qualified to determine whether BMPs have failed and recommend solutions.

Inspection and Maintenance Guidelines:

(1) Inspection of all Temporary BMPs should be made prior to the commencement of associated activities, weekly and after each rainfall event greater than 0.5 inches. Check for erosion damage and inspect for piping and settlement. Repair should be made promptly as needed by the contractor.

(2) Trash and other debris should be removed after each rainfall to prevent clogging of silt fences, stabilized construction entrances, sedimentation traps, and other drainage systems.

(3) Stabilized construction entrances, depending on amount of use, may require additional 3”-5” dump rock be added if it becomes full of sediment.

(4) Accumulated silt should be removed from permanent basin rough cuts and they should be re-graded to original dimensions at such point that the capacity of the impoundment has been reduced to 75% of its original storage capacity. The removed sediment should be stockpiled or redistributed in areas that are protected from erosion. Sediment that is commingled with other pollutants must be disposed of in accordance with all applicable laws and regulations, see Attachment A for reportable quantities and agency statutes.

(5) Inspectors shall ensure that concrete wash outs are being used in designated areas only and that the surrounding structural controls are being maintained in order to prevent direct discharge to surface waters. The concrete washout area shall be in accordance with the approved detail provided within the construction plans. Wash out of concrete trucks shall be minimized during rainfall events.

Documentation procedures and record keeping practices:

A certified stormwater inspection report shall be created, documenting the inspector, date of inspection, observations, and compliance or non-compliance. Records of the report shall be obtained at least three years from the date the site is stabilized.

Attachment J:
Schedule of Interim and Permanent Soil Stabilization Practices

Interim Stabilization

The area of disturbance is confined to that necessary to build the facilities. No temporary vegetation is proposed. However, if disturbed areas have not experienced construction activities within twenty-one (21) days, then the permanent soil stabilization practices shall be followed for these areas as described below.

Permanent Erosion Control

Immediately following completion of construction, excess spoil and debris shall be removed and the construction area shall be graded to the contours as shown on the plans. The surface of the ground should be smooth with no large rocks, stumps, or other debris. Topsoil of sandy loam, clay loam or equivalent and free of tree roots, rocks greater than 2 inches. The topsoil should be compacted by tracking a bulldozer with cleated treads vertically on the slopes to create horizontal erosion checks in the surface.

Reseeding shall immediately follow top soiling with a mixture of grasses suited for the site. Table 4 from 604S.6 of the City of Austin ECM suggests native grasses for dry, open sites in central Texas.

Table 4: Native Grasses: Dry, Open Sites

Common Name	Lbs/Ac
Sideoats Grama	7.0
Green Sprangletop	6.0
Buffalograss	24.0
Blue Grama Grass	10.0
Canada Wild Rye	10.0
Purple Three-Awn	4.0
Cane Bluestem	3.0
Galleta	10.0
Black Grama	10.0
Sand Dropseed	1.0
Alkali Sacaton	0.5
Curly Mesquite	2.0
Sand Lovegrass	2.0

Seed shall be applied by broadcast or drill method and shall be distributed evenly over the topsoil areas. Mulching shall immediately follow seed application.

Mulching may be accomplished by a number of methods and with various materials. Hay or straw material may be spread uniformly over the ground either by hand or with a mulching or shredding machine. Small bush or tree limbs which are removed during construction may also be passed through a shredder and spread evenly over the ground. Mulches shall cover the ground completely to a minimum depth of 2 inches. Large concentrated accumulations should be avoided. Fertilizer shall have a composition of 16/20/0 and shall be applied at a rate of 25 lbs/acre. Contractor shall use pellet or granular slow release fertilizer, to be applied once at planting, and once again during the time of establishment.

The seeded area shall be irrigated or sprinkled in a manner that will not erode the topsoil, at 10-day intervals during the first two months following planting at a rate sufficient to thoroughly soak the soil to a depth of 6 inches. Rainfall occurrences of ½-inch or greater shall be acceptable when the grass has grown at least 1 ½ inches high with 95% coverage and no bare spots larger than 16 square feet exist.

Upon completion of the proposed site improvements the design engineer shall certify in writing that the proposed facility was constructed in conformity to the approved plans.

Notice of Intent
(TCEQ-20022)

Will be Filed Online

Agent Authorization Form
(TCEQ 0599)

Agent Authorization Form
For Required Signature
Edwards Aquifer Protection Program
Relating to 30 TAC Chapter 213
Effective June 1, 1999

I John Ewald,
Print Name

Owner,
Title - Owner/President/Other

of Mount Vernon, LLC,
Corporation/Partnership/Entity Name

have authorized Jenna Sollner, PE
Print Name of Agent/Engineer

of Atwell, LLC
Print Name of Firm

to represent and act on the behalf of the above named Corporation, Partnership, or Entity for the purpose of preparing and submitting this plan application to the Texas Commission on Environmental Quality (TCEQ) for the review and approval consideration of regulated activities.

I also understand that:

1. The applicant is responsible for compliance with 30 Texas Administrative Code Chapter 213 and any condition of the TCEQ's approval letter. The TCEQ is authorized to assess administrative penalties of up to $10,000 per day per violation.

2. For those submitting an application who are not the property owner, but who have the right to control and possess the property, additional authorization is required from the owner.

3. Application fees are due and payable at the time the application is submitted. The application fee must be sent to the TCEQ cashier or to the appropriate regional office. The application will not be considered until the correct fee is received by the commission.

4. A notarized copy of the Agent Authorization Form must be provided for the person preparing the application, and this form must accompany the completed application.

5. No person shall commence any regulated activity on the Edwards Aquifer Recharge Zone, Contributing Zone or Transition Zone until the appropriate application for the activity has been filed with and approved by the Executive Director.

SIGNATURE PAGE:

Applicant's Signature

3/7/2025
Date

THE STATE OF Texas §

County of Hays §

AUDREY MCDOUGAL
Notary Public, State of Texas
Comm. Expires 02-05-2027
Notary ID 131881668

BEFORE ME, the undersigned authority, on this day personally appeared _____known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that (s)he executed same for the purpose and consideration therein expressed.

GIVEN under my hand and seal of office on this 7 day of March, 2025.

NOTARY PUBLIC

Audrey McDougal
Typed or Printed Name of Notary

MY COMMISSION EXPIRES: 2/5/2027

Application Fee Form
(TCEQ-0574)

Application Fee Form

Texas Commission on Environmental Quality
Name of Proposed Regulated Entity: Ewald Kubota
Regulated Entity Location: 3981 and 3983 US 290, Dripping Springs, TX 78737
Name of Customer: Mount Vernon, LLC
Contact Person: John Ewald Phone: 830-305-1648
Customer Reference Number (if issued):CN Not Issued
Regulated Entity Reference Number (if issued):RN Not Issued

Austin Regional Office (3373)

☒ Hays ☐ Travis ☐ Williamson

San Antonio Regional Office (3362)

☐ Bexar ☐ Medina ☐ Uvalde
☐ Comal ☐ Kinney

Application fees must be paid by check, certified check, or money order, payable to the **Texas Commission on Environmental Quality**. Your canceled check will serve as your receipt. **This form must be submitted with your fee payment**. This payment is being submitted to:

☒ Austin Regional Office
☒ Mailed to: TCEQ - Cashier
Revenues Section
Mail Code 214
P.O. Box 13088
Austin, TX 78711-3088

☐ San Antonio Regional Office
☐ Overnight Delivery to: TCEQ - Cashier
12100 Park 35 Circle
Building A, 3rd Floor
Austin, TX 78753
(512)239-0357

Site Location (Check All That Apply):

☐ Recharge Zone ☒ Contributing Zone ☐ Transition Zone

Type of Plan	***Size***	***Fee Due***
Water Pollution Abatement Plan, Contributing Zone Plan: One Single Family Residential Dwelling	Acres	$
Water Pollution Abatement Plan, Contributing Zone Plan: Multiple Single Family Residential and Parks	Acres	$
Water Pollution Abatement Plan, Contributing Zone Plan: Non-residential	4.17 Acres	$ 4,000
Sewage Collection System	L.F.	$
Lift Stations without sewer lines	Acres	$
Underground or Aboveground Storage Tank Facility	Tanks	$
Piping System(s)(only)	Each	$
Exception	Each	$
Extension of Time	Each	$

Signature: _____ Date: 3/6/25

Application Fee Schedule

Texas Commission on Environmental Quality
Edwards Aquifer Protection Program 30 TAC Chapter 213 (effective 05/01/2008)

Water Pollution Abatement Plans and Modifications

Contributing Zone Plans and Modifications

Project	*Project Area in Acres*	*Fee*
One Single Family Residential Dwelling	< 5	$650
Multiple Single Family Residential and Parks	< 5 5 < 10 10 < 40 40 < 100 100 < 500 ≥ 500	$1,500 $3,000 $4,000 $6,500 $8,000 $10,000
Non-residential (Commercial, industrial, institutional, multi-family residential, schools, and other sites where regulated activities will occur)	< 1 1 < 5 5 < 10 10 < 40 40 < 100 ≥ 100	$3,000 $4,000 $5,000 $6,500 $8,000 $10,000

Organized Sewage Collection Systems and Modifications

Project	*Cost per Linear Foot*	*Minimum Fee-Maximum Fee*
Sewage Collection Systems	$0.50	$650 - $6,500

Underground and Aboveground Storage Tank System Facility Plans and Modifications

Project	*Cost per Tank or Piping System*	*Minimum Fee-Maximum Fee*
Underground and Aboveground Storage Tank Facility	$650	$650 - $6,500

Exception Requests

Project	*Fee*
Exception Request	$500

Extension of Time Requests

Project	*Fee*
Extension of Time Request	$150

Core Data Form
(TCEQ-10400)

TCEQ Core Data Form

TCEQ Use Only

For detailed instructions regarding completion of this form, please read the Core Data Form Instructions or call 512-239-5175.

SECTION I: General Information

1. Reason for Submission (*If other is checked please describe in space provided.*)

☒ New Permit, Registration or Authorization (*Core Data Form should be submitted with the program application.*)

☐ Renewal (*Core Data Form should be submitted with the renewal form*) ☐ Other

2. Customer Reference Number *(if issued)*	Follow this link to search for CN or RN numbers in Central Registry**	3. Regulated Entity Reference Number *(if issued)*
CN		RN

SECTION II: Customer Information

4. General Customer Information | **5. Effective Date for Customer Information Updates** (mm/dd/yyyy)

☒ New Customer ☐ Update to Customer Information ☐ Change in Regulated Entity Ownership
☐ Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts)

The Customer Name submitted here may be updated automatically based on what is current and active with the Texas Secretary of State (SOS) or Texas Comptroller of Public Accounts (CPA).

6. Customer Legal Name (*If an individual, print last name first: eg: Doe, John*) *If new Customer, enter previous Customer below:*

Mount Vernon LLC

7. TX SOS/CPA Filing Number	8. TX State Tax ID (11 digits)	9. Federal Tax ID (9 digits)	10. DUNS Number (*if applicable*)
	32068806051	82-2684154	

11. Type of Customer: ☒ Corporation ☐ Individual Partnership: ☐ General ☐ Limited
Government: ☐ City ☐ County ☐ Federal ☐ State ☐ Other ☐ Sole Proprietorship ☒ Other:

12. Number of Employees
☒ 0-20 ☐ 21-100 ☐ 101-250 ☐ 251-500 ☐ 501 and higher

13. Independently Owned and Operated?
☒ **Yes** ☐ **No**

14. Customer Role (Proposed or Actual) – *as it relates to the Regulated Entity listed on this form. Please check one of the following*

☐ Owner ☒ Operator ☐ Owner & Operator
☐ Occupational Licensee ☐ Responsible Party ☐ Voluntary Cleanup Applicant ☐ Other:

15. Mailing Address:

PO Box 1287

City	Seguin	State	TX	ZIP	78156	ZIP + 4	

16. Country Mailing Information (*if outside USA*)	17. E-Mail Address (*if applicable*)

18. Telephone Number	19. Extension or Code	20. Fax Number (*if applicable*)
(830) 305-1648		( ) -

SECTION III: Regulated Entity Information

21. General Regulated Entity Information (*If 'New Regulated Entity" is selected below this form should be accompanied by a permit application*)

☒ New Regulated Entity ☐ Update to Regulated Entity Name ☐ Update to Regulated Entity Information

The Regulated Entity Name submitted may be updated in order to meet TCEQ Agency Data Standards (removal of organizational endings such as Inc, LP, or LLC).

22. Regulated Entity Name (*Enter name of the site where the regulated action is taking place.*)

Ewald Kubota

23. Street Address of the Regulated Entity: *(No PO Boxes)*								
	3983 US 290							
	City	Dripping Springs	**State**	TX	**ZIP**	78737	**ZIP + 4**	
24. County								

Enter Physical Location Description if no street address is provided.

25. Description to Physical Location:					
26. Nearest City			**State**		**Nearest ZIP Code**
27. Latitude (N) In Decimal:			**28. Longitude (W) In Decimal:**		
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds
30	11	48.52	98	01	32.05

29. Primary SIC Code (4 digits)	**30. Secondary SIC Code** (4 digits)	**31. Primary NAICS Code** (5 or 6 digits)	**32. Secondary NAICS Code** (5 or 6 digits)
6519	5083	531120	423820

33. What is the Primary Business of this entity? *(Do not repeat the SIC or NAICS description.)*

Real Estate Holding Company that leases to Ewald Kubota

34. Mailing Address:								
	PO Box 1287							
	City	**Sequin**	**State**	**TX**	**ZIP**	**78156**	**ZIP + 4**	
35. E-Mail Address:	**john.e@ewaldkubota.com**							

36. Telephone Number	**37. Extension or Code**	**38. Fax Number** *(if applicable)*
(803) 305-1648		**( ) -**

39. TCEQ Programs and ID Numbers Check all Programs and write in the permits/registration numbers that will be affected by the updates submitted on this form. See the Core Data Form instructions for additional guidance.

☐ Dam Safety	☐ Districts	☒ Edwards Aquifer	☐ Emissions Inventory Air	☐ Industrial Hazardous Waste
☐ Municipal Solid Waste	☐ New Source Review Air	☐ OSSF	☐ Petroleum Storage Tank	☐ PWS
☐ Sludge	☐ Storm Water	☐ Title V Air	☐ Tires	☐ Used Oil
☐ Voluntary Cleanup	☐ Waste Water	☐ Wastewater Agriculture	☐ Water Rights	☐ Other:

SECTION IV: Preparer Information

40. Name:	Jenna Sollner, PE	**41. Title:**	Project Manager

42. Telephone Number	**43. Ext./Code**	**44. Fax Number**	**45. E-Mail Address**
(512) 904-0505		( ) -	jsollner@atwell.com

SECTION V: Authorized Signature

46. By my signature below, I certify, to the best of my knowledge, that the information provided in this form is true and complete, and that I have signature authority to submit this form on behalf of the entity specified in Section II, Field 6 and/or as required for the updates to the ID numbers identified in field 39.

Company:	Atwell, LLC	**Job Title:**	Project Manager
Name *(In Print):*	Jenna Sollner, PE	**Phone:**	(512) 904- **0505**
Signature:		**Date:**	