

Exhibit J- Proposed Plant List for Reclamation in Open Space Areas

As shown on *Exhibit I-Proposed Reclamation Guidelines*, the existing reclamation standards of the existing permits specify the application of basic plant species seed mix. The proposed plant list is more comprehensive and complex. Even the City's *Grow Green Guide* includes plants that are more suited to the arid Hill Country than the moist Bottomland Hardwoods. The following lists are tailored to the individual ecological habitats onsite to promote and enhance their natural characteristics and ecological function.

BLACKLAND PRAIRIE LANDSCAPE - BLACKLAND PRAIRIE PLANT LIST

Seed application rate: 10 pounds per acre (Source of application rate: Native American Seed Company).

Scientific Name	Common Name
<i>Agalinis heterophylla</i>	Prairie Agalinis
<i>Andropogon gerardii</i>	Big Bluestem
<i>Andropogon virginicus</i>	Broomsedge Bluestem
<i>Asclepias incarnata</i>	Rose Milkweed
<i>Asclepias speciosa</i>	Showy Milkweed
<i>Asclepias tuberosa</i>	Butterflyweed
<i>Bothriochloa barbinodis</i>	Cane Bluestem
<i>Bouteloua curtipendula</i>	Sideoats Grama
<i>Buchloe dactyloides</i>	Buffalograss
<i>Callirhoe involucrata</i>	Winecup
<i>Callirhoe leiocarpa</i>	Annual Winecup
<i>Centaurea americana</i>	American Basketflower
<i>Chamaecrista fasciculata</i>	Partridge Pea
<i>Chasmanthium latifolium</i>	Inland Sea oats
<i>Chloris cucullata</i>	Hooded Windmill Grass
<i>Dalea purpurea</i> var. <i>purpurea</i>	Purple Prairie Clover
<i>Desmanthus illinoensis</i>	Illinois Bundleflower
<i>Dracopis amplexicaulis</i>	Clasping Coneflower
<i>Elymus canadensis</i>	Prairie Wildrye
<i>Elymus virginicus</i>	Virginia Wildrye
<i>Engelmannia peristenia</i>	Cutleaf Daisy
<i>Eragrostis trichodes</i>	Sand Lovegrass
<i>Eriochloa sericea</i>	Texas Cupgrass

Scientific Name	Common Name
<i>Eryngium yuccifolium</i>	Rattlesnake Master
<i>Gaillardia pulchella</i>	Indian Blanket
<i>Glandularia bipinnatifida</i> var. <i>bipinnatifida</i>	Prairie Verbena
<i>Helianthus annuus</i>	Maximilian Sunflower
<i>Ipomopsis rubra</i>	Standing Cypress
<i>Leptochloa dubia</i>	Green Sprangletop
<i>Lindheimeri texana</i>	Texas Yellow Star
<i>Monarda citridora</i>	Lemon Mint
<i>Panicum virgatum</i>	Switchgrass
<i>Paspalum floridanum</i>	Florida Paspalum
<i>Penstemon cobaea</i>	Foxglove
<i>Plains Bristlegrass</i>	Plains Bristlegrass
<i>Plains Coreopsis</i>	Plains Coreopsis
<i>Rudbeckia hirta</i>	Black-eyed Susan
<i>Salvia farinacea</i>	Mealy Blue Sage
<i>Schizachyrium scoparium</i>	Little Bluestem
<i>Silphium albiflorum</i>	White Rosinweed
<i>Sorghastrum nutans</i>	Indiangrass
<i>Sporobolus cryptandrus</i>	Sand Dropseed
<i>Trident albescent</i>	White Tridens
<i>Tridens flavus</i>	Purpletop
<i>Tripsacum dactyloides</i>	Eastern Gamagrass

BLACKLAND PRAIRIE LANDSCAPE - RIPARIAN RECOVERY PLANT LIST

Seed application rate: 9 pounds per acre (Source of application rate: Native American Seed Company).

Scientific Name	Common Name
<i>Andropogon gerardii</i>	Big Bluestem
<i>Andropogon glomeratus</i>	Bushy Bluestem
<i>Asclepias incarnata</i>	Rose Milkweed
<i>Bothriochloa barbinodis</i>	Cane Bluestem
<i>Bouteloua curtipendula</i>	Sideoats Grama
<i>Chamaecrista fasciculata</i>	Partridge Pea
<i>Chasmanthium latifolium</i>	Inland Seaoats
<i>Coreopsis tinctoria</i>	Plains Coreopsis
<i>Desmanthus illinoensis</i>	Illinois Bundleflower
<i>Dracopis amplexicaulis</i>	Clasping Coneflower
<i>Elymus canadensis</i>	Prairie Wildrye
<i>Elymus virginicus</i>	Virginia Wildrye
<i>Engelmannia peristenia</i>	Cutleaf Daisy
<i>Eriochloa sericea</i>	Texas Cupgrass
<i>Helianthus angustifolius</i>	Swamp Sunflower
<i>Helianthus maximiliani</i>	Maximilian Sunflower
<i>Iva annua</i>	Marsh Elder

Scientific Name	Common Name
<i>Leptochloa dubia</i>	Green Sprangletop
<i>Lobelia cardinalis</i>	Cardinal Flower
<i>Monarda citridora</i>	Lemon Mint
<i>Oenothera speciosa</i>	Pink Evening Primrose
<i>Panicum virgatum</i>	Switchgrass
<i>Paspalum floridanum</i>	Florida Paspalum
<i>Rudbeckia hirta</i>	Black-Eyed Susan
<i>Salvia coccinea</i>	Scarlet Sage
<i>Setaria scheelei</i>	Southwestern Bristlegrass
<i>Setaria vulpiseta</i>	Plains Bristlegrass
<i>Sorghastrum nutans</i>	Indiangrass
<i>Sporobolus airoides</i>	Alkali Sacaton
<i>Sporobolus cryptandrus</i>	Sand Dropseed
<i>Trident albescent</i>	White Tridens
<i>Tripsacum dactyloides</i>	Eastern Gamagrass
<i>Verbesina virginica</i>	Frostweed

TRANSITIONAL SAVANNA LANDSCAPE

Scientific Name	Common Name
<i>Acer negundo</i>	Box Elder
<i>Carya illinoensis</i>	Pecan
<i>Celtis laevigata</i>	Sugar Hackberry
<i>Celtis reticulata</i>	Netleaf Hackberry
<i>Fraxinus pennsylvanica</i>	Green Ash
<i>Juglans microcarpa</i>	Little walnut
<i>Juglans nigra</i>	Black Walnut
<i>Juniperus virginiana</i>	Eastern red cedar
<i>Maclura pomifera</i>	Bois d'Arc
<i>Platanus occidentalis</i>	American Sycamore

Scientific Name	Common Name
<i>Populus deltoides</i>	Eastern Cottonwood
<i>Quercus fusiformis</i>	Live oak
<i>Quercus macrocarpa</i>	Bur Oak
<i>Quercus shumardii</i>	Shumard Oak
<i>Quercus stellata</i>	Post oak
<i>Salix nigra</i>	Black Willow
<i>Taxodium distichum</i>	Bald Cypress
<i>Ulmus americana</i>	American Elm
<i>Ulmus crassifolia</i>	Cedar Elm
<i>Ungnadia speciosa</i>	Mexican Buckeye

BOTTOMLAND HARDWOOD LANDSCAPE

Scientific Name	Common Name
<i>Acer negundo</i>	Box Elder
<i>Aesculus pavia</i>	Red Buckeye
<i>Baccharis salicina</i>	Willow Baccharis
<i>Carya illinoensis</i>	Pecan
<i>Celtis laevigata</i>	Sugar Hackberry
<i>Celtis reticulata</i>	Netleaf Hackberry
<i>Cephalanthus occidentalis</i>	Buttonbush
<i>Fraxinus pennsylvanica</i>	Green Ash
<i>Ilex decudua</i>	Possumhaw
<i>Juglans microcarpa</i>	Little walnut
<i>Juglans nigra</i>	Black Walnut
<i>Juniperus virginiana</i>	Eastern red cedar
<i>Maclura ponifera</i>	Bois d’Arc

Scientific Name	Common Name
<i>Morella cerifera</i>	Wax Myrtle
<i>Platanus occidentalis</i>	American Sycamore
<i>Populus deltoides</i>	Eastern Cottonwood
<i>Quercus fusiformis</i>	Live oak
<i>Quercus macrocarpa</i>	Bur Oak
<i>Quercus shumardii</i>	Shumard Oak
<i>Quercus stellate</i>	Post oak
<i>Sabal minor</i>	Dwarf Palmetto
<i>Salix nigra</i>	Black Willow
<i>Taxodium distichum</i>	Bald Cypress
<i>Ulmus americana</i>	American Elm
<i>Ulmus crassifolia</i>	Cedar Elm
<i>Ungnadia speciosa</i>	Mexican Buckeye

WETLAND PLANTS

Seed application rate: 20 pounds per acre (Source of application rate: Native American Seed Company). Within the inundated areas of wetland benches, herbaceous planting will include individual plants from *Exhibit J-Proposed Plant List for Reclamation in Open Spaces Areas* and will be planted at 680 plants/acre. The inundated wetland benches will not include woody plantings. The wetland herbaceous plantings will be monitored to a success criteria for years 1 and 2. During year 1, wetland vegetation will include a minimum of 50% aerial cover of the wetland bench (not open water). During year 2, wetland vegetation will include a minimum of 80% aerial cover of the wetland bench (not open water). Wetland plantings densities from professional experience on USACE-approved wetland banks in North Carolina and survival percentages adapted from “Performance Standards and Monitoring Protocols for Nontidal Wetland Mitigation Banks in Maryland” (USACE 2015).

Scientific Name	Common Name
<i>Saururus cerenuus</i>	Lizards Tail (FACW)
<i>Amorpha fruticose</i>	Swamp Milkweed (FACW)
<i>Andropogon glomeratus</i>	Bushy bluestem (FACW)
<i>Asclepias incarnata</i>	Swamp milkweed (FACW)
<i>Carex cherokeeensis</i>	Cherokee sedge (FACW)
<i>Carya illinoensis</i>	Pecan (FAC)
<i>Cephalanthus occidentalis</i>	Buttonbush (OBL)
<i>Chasmanthium latifolium</i>	Indian woodoats (FACU)
<i>Chasmanthium laxum</i>	Slender woodoats (FAC)
<i>Ilex decudua</i>	Deciduous holly (FAC)
<i>Muhlenbergia lindheimeri</i>	Lindheimer’s muhly (FACW)
<i>Muhlenbergia rigens</i>	Deergrass (FACU)

Scientific Name	Common Name
<i>Panicum virgatum</i>	Switchgrass (FAC)
<i>Platanus occidentalis</i>	American sycamore (FAC)
<i>Populus deltoides</i>	Eastern cottonwood (FAC)
<i>Quercus macrocarpa</i>	Bur oak (FACU)
<i>Quercus muehlenbergii</i>	Chinquapin oak (FAC)
<i>Ranunculus abortivus</i>	Littleleaf buttercup (FACW)
<i>Sagittaria latifolia</i>	Broadleaf arrowhead (OBL)
<i>Salix nigra</i>	Black willow (FACW)
<i>Taxodium distichum</i>	Bald Cypress (OBL)
<i>Tripsacum dactyloides</i>	Eastern gamagrass (FAC)

PROPOSED

For a complete description of proposed plan, please reference the following exhibits:

- Exhibit A - Description of Property
- Exhibit B - Zoning Map
- Exhibit C - Austin Green Land Use Map and Density Table
- Exhibit D - Zoning Use Summary Table
- Exhibit E - Site Development Regulations
- Exhibit F - Proposed Parkland and Open Space Master Plan and Open Space Amenity Matrix
- Exhibit G - Example Parkland Open Space Concepts
- Exhibit H - Typical Road Sections
- Exhibit I - Proposed Reclamation Guidelines
- Exhibit J - Proposed Plant List for Reclamation in Open Space Areas
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- Exhibit L - Proposed Floodplain and Water Quality Quality
- Exhibit M - CEF and Buffers
- Exhibit N - Phasing Plan
- Exhibit O - Example House Products



196.56 AC

STATE HWY 130

505.68 AC

ELM CREEK WATERSHED

26.94 AC

F.M. 973

18.09 AC

47.97 AC

178.73 AC

110.93 AC

69.54 AC

97.03 AC

COLORADO RIVER WATERSHED

104.00 AC

129.12 AC

23.53 AC

272.57 AC

76.61 AC

50' ERZ SETBACK FROM CENTERLINE OF CWQZ

169.15 AC

88.16 AC

89.55 AC

LEGEND

- PROPERTY LINE
- - - DRAINAGE AREA BOUNDARY
- - - WATERSHED DELINEATION
- PROPOSED CRITICAL WATER QUALITY ZONE (CWQZ)
- CONSTRAINED CRITICAL WATER QUALITY ZONE (REF. EXHIBIT "N1")
- UNCONSTRAINED CRITICAL WATER QUALITY ZONE (REF. EXHIBIT "N1")
- (X) LINEAR SEGMENT OF CWQZ (≈5230 LF)

CRITICAL WATER QUALITY ZONE AREAS

TOTAL IN ELM CREEK WATERSHED	±106 ACRES
TOTAL IN COLORADO RIVER WATERSHED	±409 ACRES
TOTAL CWQZ AREA	±515 ACRES
TOTAL CONSTRAINED CWQZ AREA	±21 ACRES
TOTAL UNCONSTRAINED CWQZ AREA	±494 ACRES

NOTE: REFERENCE PROPOSED CODE MODIFICATION (25-8-92) REGARDING ESTABLISHING CRITICAL WATER QUALITY ZONES ALONG MAJOR WATERWAYS PER THIS EXHIBIT.

LINEAR CWQZ SEGMENTS

SEGMENT	LENGTH (LF)
1	660
2	290
3	550
4	2090
5	360
6	740
7	540

PROPOSED

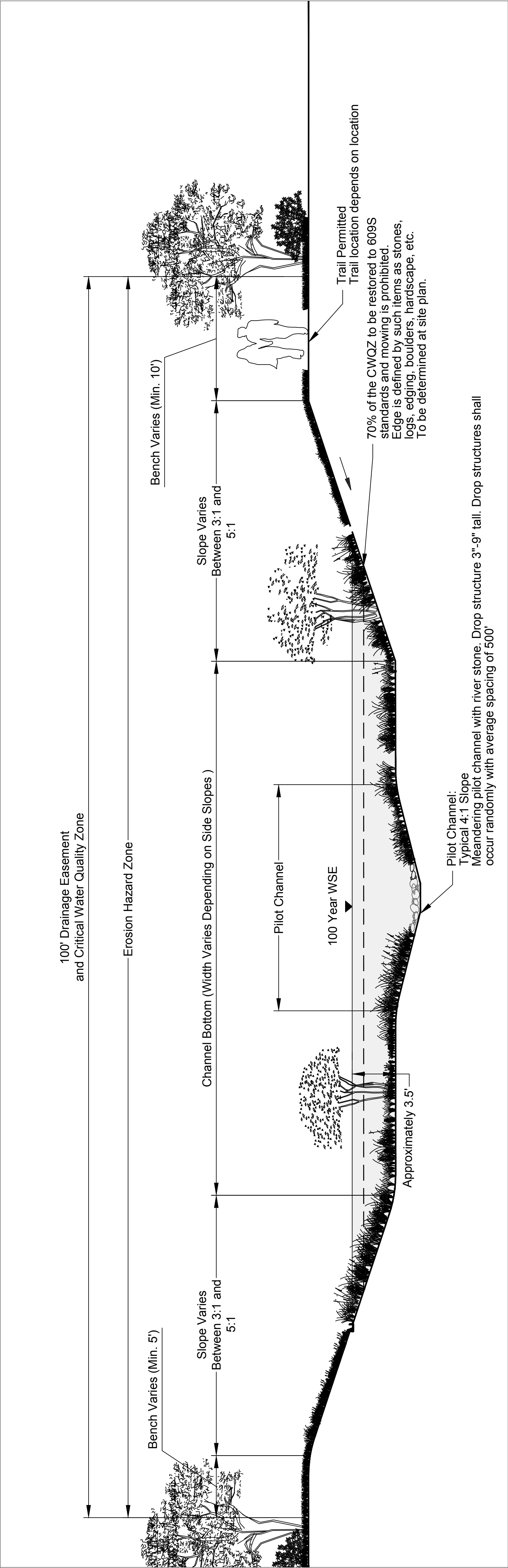
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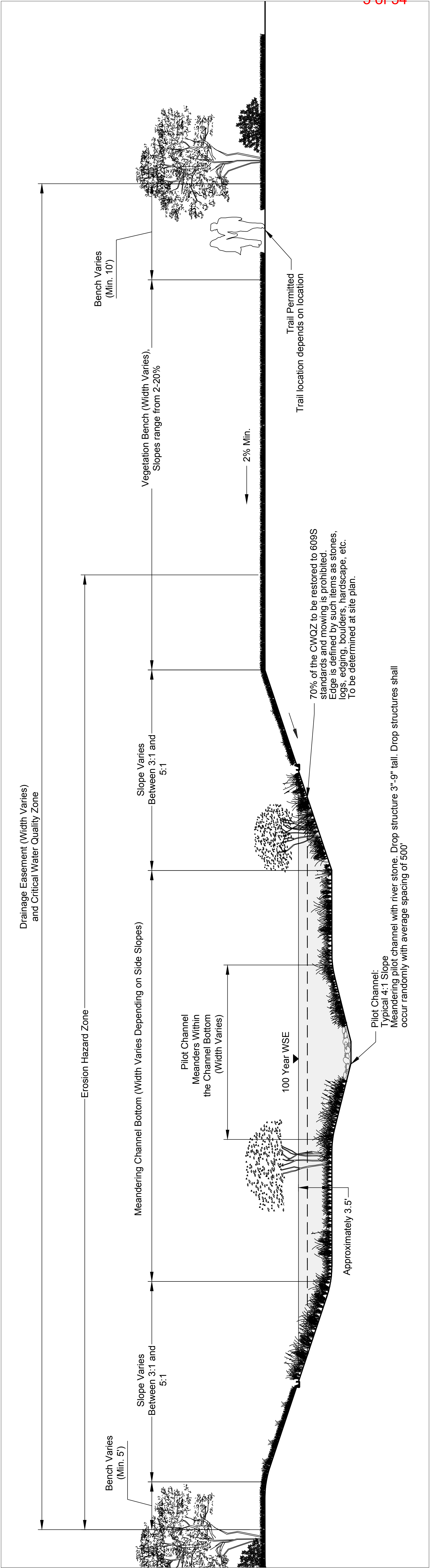
GENERAL NOTES:

- Within 100-year WSE level, species to be from Riparian Recover mix and Blackland Prairie mix (see Exhibit J4-Proposed Plant List for Reclamation in Open Spaces Areas).
- In areas within the 100-year WSE, approximately 100' of the vegetation listed above will not be mowed.
- Vegetation varies outside of drainage easement.
- Where CEF buffers occur, no mowing allowed.
- If CWQZ is 200' or larger application rates in alignment with Exhibit I-Reclamation Standards for Open Space will apply. If CWQZ is less than 200' the application rates for 100% of the 100 year WSE will be applied.
- OS 4 shall be permitted to have up to 2 acres of mowed area as part of the village center park per Exhibit F-Proposed Parkland & Open Space Master Plan.

CONSTRAINED CHANNEL DIAGRAM OF 100' CWQZ OR DRAINAGE EASEMENT AREA - TYPICAL SECTION

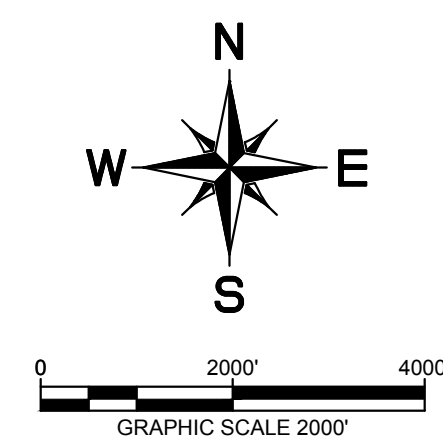


UNCONSTRAINED CHANNEL DIAGRAM > 100' CWQZ OR DRAINAGE EASEMENT AREA - TYPICAL SECTION

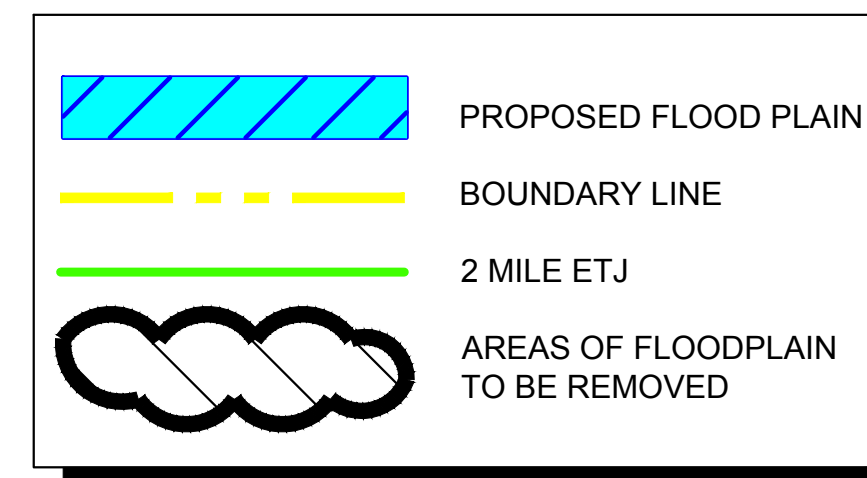


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LEGEND



APPROX. 238
ACRES OF
NEIGHBORING
PROPERTY OUT
OF FLOODPLAIN

APPROX. 43 ACRES
OF TRAVIS COUNTY
CIP HAROLD GREEN
PROJECT ALIGNMENT
OUT OF FLOODPLAIN

APPROX. 77 ACRES OF
OFF-SITE, UNFILTERED
STORMWATER TO BE TREATED
BY AUSTIN GREEN
STORMWATER FACILITIES

NOTES:
-APPROX. 1347.76 ACRES OUTSIDE OF 100-YEAR FLOODPLAIN
-SPECIFIC AREAS OF ADJACENT PROPERTIES TO BE REMOVED FROM FLOODPLAIN WILL BE FINALIZED DURING THE FLOODPLAIN MODIFICATION SUBMITTAL

SUBMITTAL DATE: JANUARY 22, 2020

Disclaimer

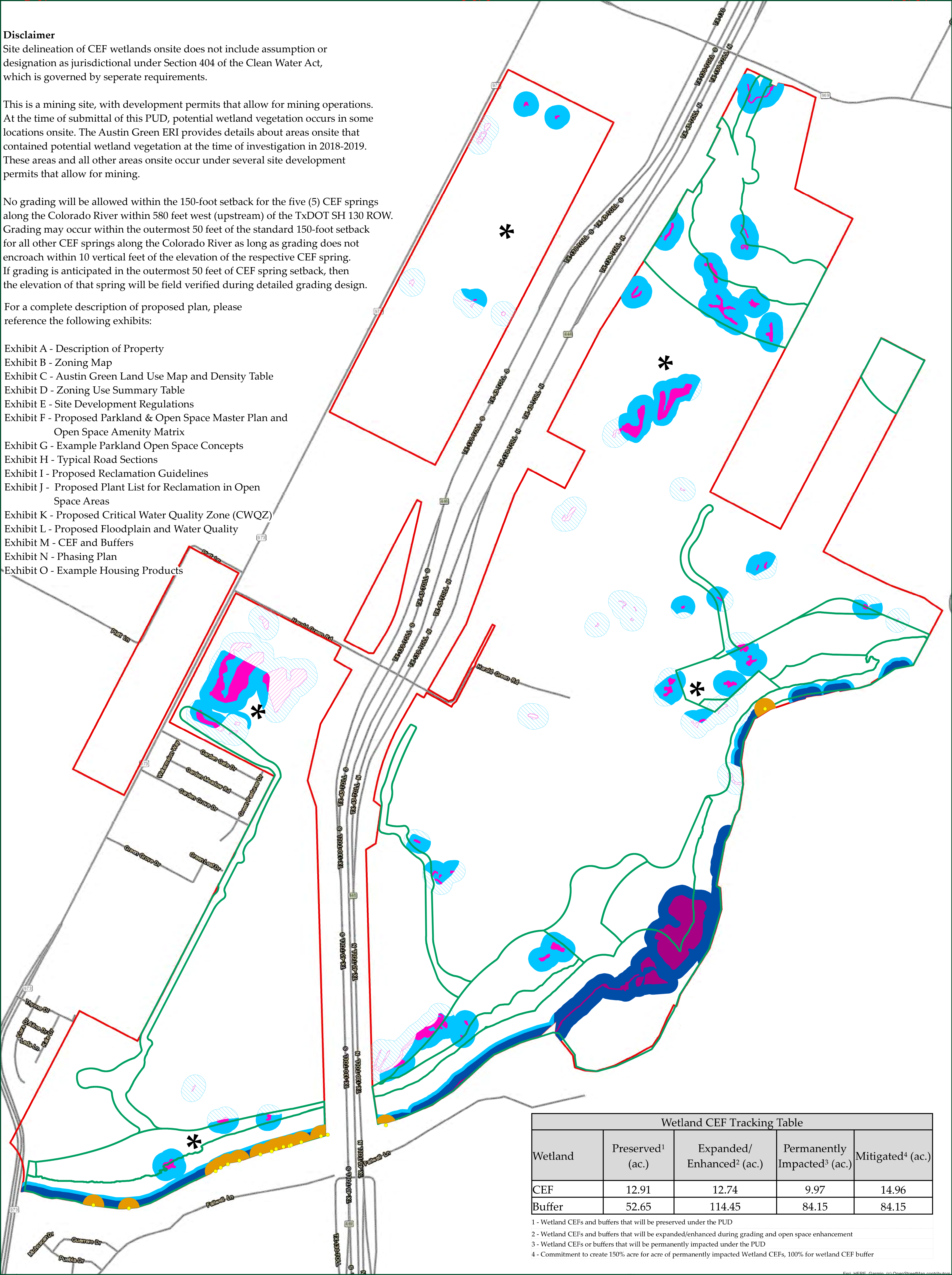
Site delineation of CEF wetlands onsite does not include assumption or designation as jurisdictional under Section 404 of the Clean Water Act, which is governed by seperate requirements.

This is a mining site, with development permits that allow for mining operations. At the time of submittal of this PUD, potential wetland vegetation occurs in some locations onsite. The Austin Green ERI provides details about areas onsite that contained potential wetland vegetation at the time of investigation in 2018-2019. These areas and all other areas onsite occur under several site development permits that allow for mining.

No grading will be allowed within the 150-foot setback for the five (5) CEF springs along the Colorado River within 580 feet west (upstream) of the TxDOT SH 130 ROW. Grading may occur within the outermost 50 feet of the standard 150-foot setback for all other CEF springs along the Colorado River as long as grading does not encroach within 10 vertical feet of the elevation of the respective CEF spring. If grading is anticipated in the outermost 50 feet of CEF spring setback, then the elevation of that spring will be field verified during detailed grading design.

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This map is intended for planning purposes only. All map data should be considered preliminary. All boundaries and designations are subject to confirmation.

Esri, HERE, Garmin, (c) OpenStreetMap contributors

N

600 300 0 600

Feet

1:2,200 1 inch = 600 Feet

AT 24" x 36" SCALE

Preserved CEF

Preserved CEF Buffer

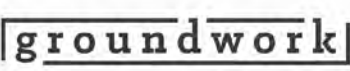
Temporarily Impacted / Enhanced CEF

Temporarily Impacted / Enhanced CEF Buffer

Permanently Impacted CEF

Permanently Impacted CEF Buffer

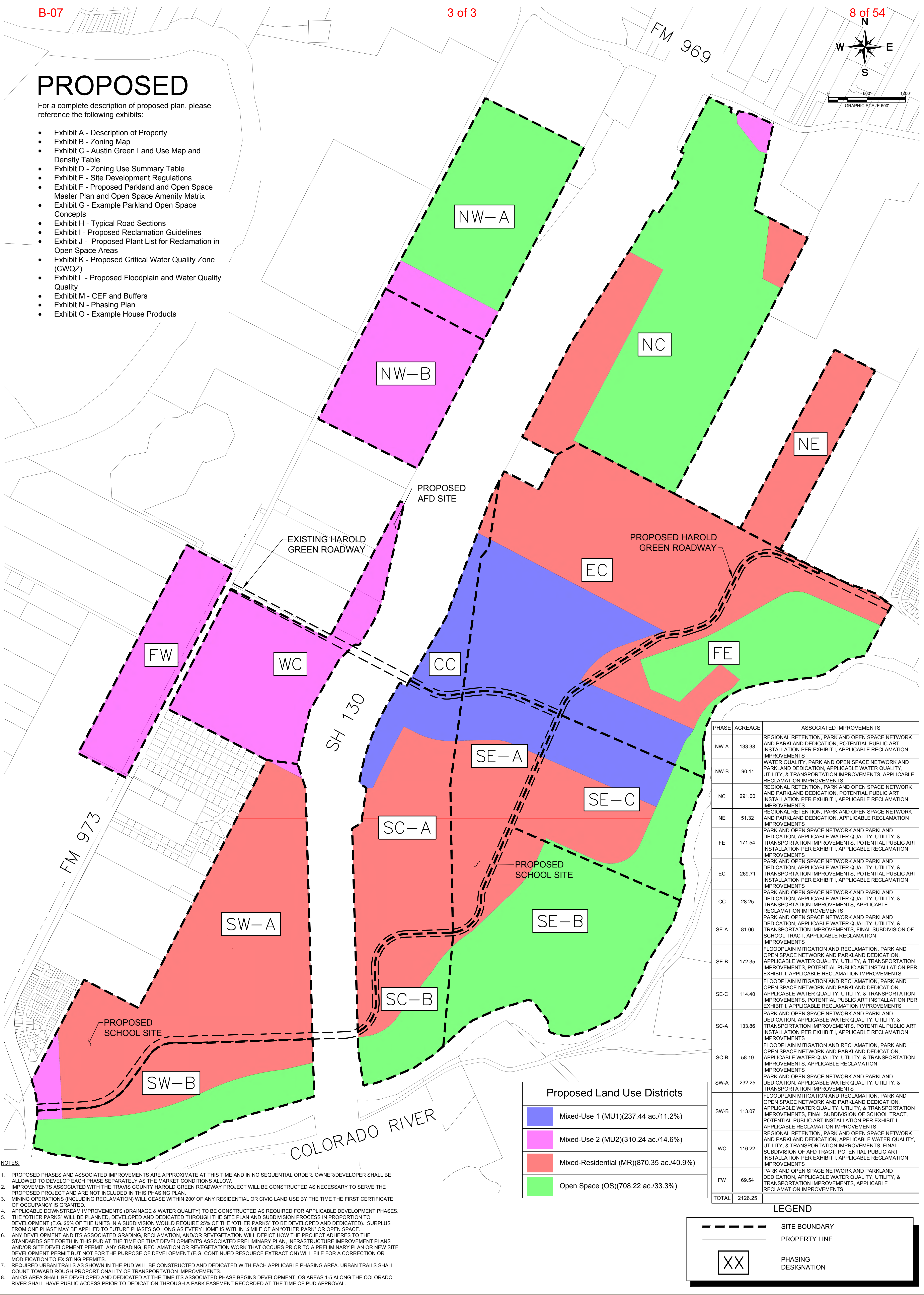
✱ Possible Wetland Mitigation Area



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PHASE	ACREAGE	ASSOCIATED IMPROVEMENTS
NW-A	133.38	REGIONAL RETENTION, PARK AND OPEN SPACE NETWORK AND PARKLAND DEDICATION, POTENTIAL PUBLIC ART INSTALLATION PER EXHIBIT I, APPLICABLE RECLAMATION IMPROVEMENTS
NW-B	90.11	WATER QUALITY, PARK AND OPEN SPACE NETWORK AND PARKLAND DEDICATION, APPLICABLE WATER QUALITY, UTILITY, & TRANSPORTATION IMPROVEMENTS, APPLICABLE RECLAMATION IMPROVEMENTS
NC	291.00	REGIONAL RETENTION, PARK AND OPEN SPACE NETWORK AND PARKLAND DEDICATION, POTENTIAL PUBLIC ART INSTALLATION PER EXHIBIT I, APPLICABLE RECLAMATION IMPROVEMENTS
NE	51.32	REGIONAL RETENTION, PARK AND OPEN SPACE NETWORK AND PARKLAND DEDICATION, APPLICABLE RECLAMATION IMPROVEMENTS
FE	171.54	PARK AND OPEN SPACE NETWORK AND PARKLAND DEDICATION, APPLICABLE WATER QUALITY, UTILITY, & TRANSPORTATION IMPROVEMENTS, POTENTIAL PUBLIC ART INSTALLATION PER EXHIBIT I, APPLICABLE RECLAMATION IMPROVEMENTS
EC	269.71	PARK AND OPEN SPACE NETWORK AND PARKLAND DEDICATION, APPLICABLE WATER QUALITY, UTILITY, & TRANSPORTATION IMPROVEMENTS, POTENTIAL PUBLIC ART INSTALLATION PER EXHIBIT I, APPLICABLE RECLAMATION IMPROVEMENTS
CC	28.25	PARK AND OPEN SPACE NETWORK AND PARKLAND DEDICATION, APPLICABLE WATER QUALITY, UTILITY, & TRANSPORTATION IMPROVEMENTS, APPLICABLE RECLAMATION IMPROVEMENTS
SE-A	81.06	PARK AND OPEN SPACE NETWORK AND PARKLAND DEDICATION, APPLICABLE WATER QUALITY, UTILITY, & TRANSPORTATION IMPROVEMENTS, FINAL SUBDIVISION OF SCHOOL TRACT, APPLICABLE RECLAMATION IMPROVEMENTS
SE-B	172.35	FLOODPLAIN MITIGATION AND RECLAMATION, PARK AND OPEN SPACE NETWORK AND PARKLAND DEDICATION, APPLICABLE WATER QUALITY, UTILITY, & TRANSPORTATION IMPROVEMENTS, POTENTIAL PUBLIC ART INSTALLATION PER EXHIBIT I, APPLICABLE RECLAMATION IMPROVEMENTS
SE-C	114.40	FLOODPLAIN MITIGATION AND RECLAMATION, PARK AND OPEN SPACE NETWORK AND PARKLAND DEDICATION, APPLICABLE WATER QUALITY, UTILITY, & TRANSPORTATION IMPROVEMENTS, POTENTIAL PUBLIC ART INSTALLATION PER EXHIBIT I, APPLICABLE RECLAMATION IMPROVEMENTS
SC-A	133.86	PARK AND OPEN SPACE NETWORK AND PARKLAND DEDICATION, APPLICABLE WATER QUALITY, UTILITY, & TRANSPORTATION IMPROVEMENTS, POTENTIAL PUBLIC ART INSTALLATION PER EXHIBIT I, APPLICABLE RECLAMATION IMPROVEMENTS
SC-B	58.19	FLOODPLAIN MITIGATION AND RECLAMATION, PARK AND OPEN SPACE NETWORK AND PARKLAND DEDICATION, APPLICABLE WATER QUALITY, UTILITY, & TRANSPORTATION IMPROVEMENTS, APPLICABLE RECLAMATION IMPROVEMENTS
SW-A	232.25	PARK AND OPEN SPACE NETWORK AND PARKLAND DEDICATION, APPLICABLE WATER QUALITY, UTILITY, & TRANSPORTATION IMPROVEMENTS
SW-B	113.07	FLOODPLAIN MITIGATION AND RECLAMATION, PARK AND OPEN SPACE NETWORK AND PARKLAND DEDICATION, APPLICABLE WATER QUALITY, UTILITY, & TRANSPORTATION IMPROVEMENTS, FINAL SUBDIVISION OF SCHOOL TRACT, POTENTIAL PUBLIC ART INSTALLATION PER EXHIBIT I, APPLICABLE RECLAMATION IMPROVEMENTS
WC	116.22	REGIONAL RETENTION, PARK AND OPEN SPACE NETWORK AND PARKLAND DEDICATION, APPLICABLE WATER QUALITY, UTILITY, & TRANSPORTATION IMPROVEMENTS, FINAL SUBDIVISION OF AFD TRACT, POTENTIAL PUBLIC ART INSTALLATION PER EXHIBIT I, APPLICABLE RECLAMATION IMPROVEMENTS
FW	69.54	PARK AND OPEN SPACE NETWORK AND PARKLAND DEDICATION, APPLICABLE WATER QUALITY, UTILITY, & TRANSPORTATION IMPROVEMENTS, APPLICABLE RECLAMATION IMPROVEMENTS
TOTAL	2126.25	

Proposed Land Use Districts	
<div></div>	Mixed-Use 1 (MU1)(237.44 ac./11.2%)
<div></div>	Mixed-Use 2 (MU2)(310.24 ac./14.6%)
<div></div>	Mixed-Residential (MR)(870.35 ac./40.9%)
<div></div>	Open Space (OS)(708.22 ac./33.3%)

SITE BOUNDARY

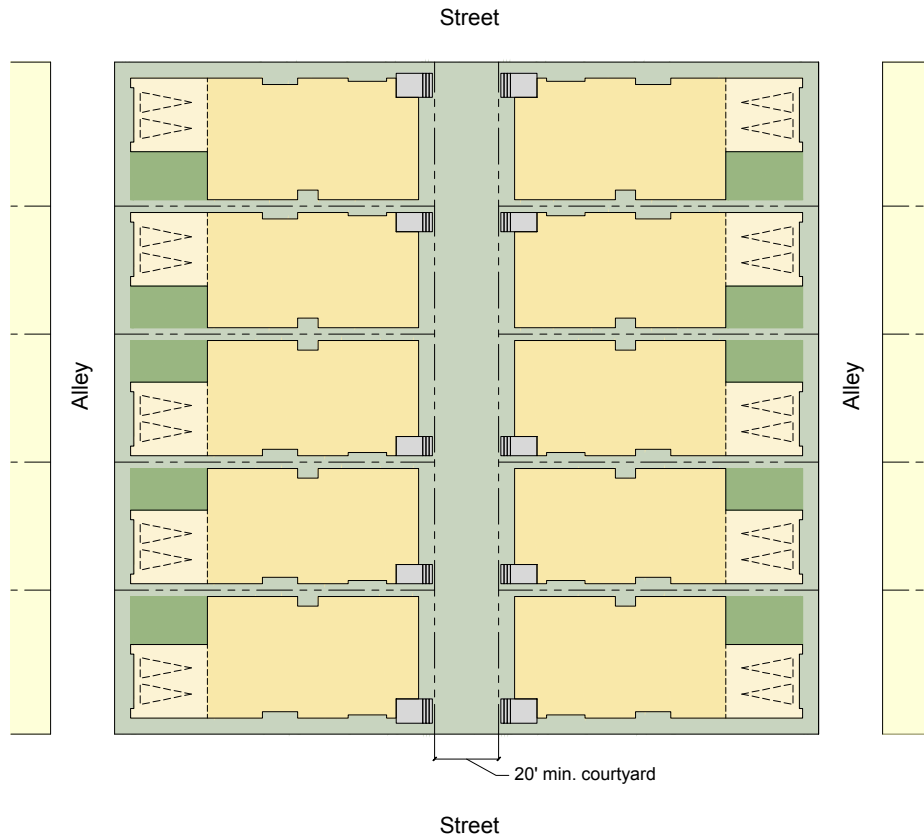
PROPERTY LINE

XX

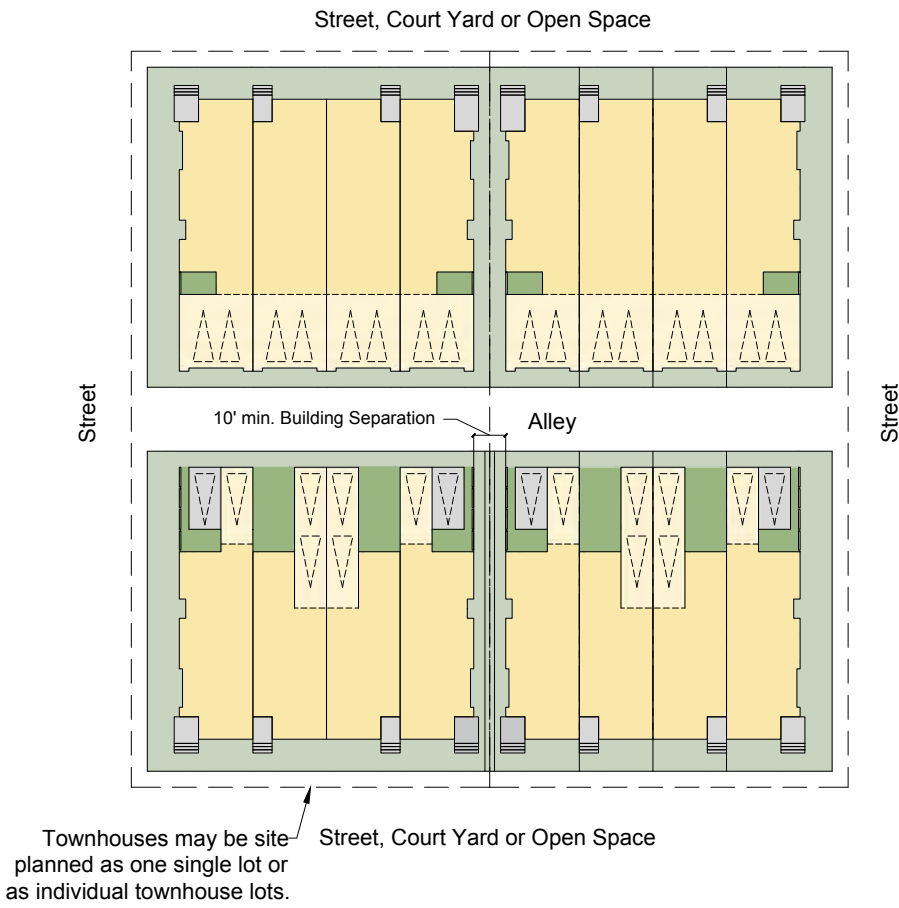
PHASING DESIGNATION

- NOTES:
1. PROPOSED PHASES AND ASSOCIATED IMPROVEMENTS ARE APPROXIMATE AT THIS TIME AND IN NO SEQUENTIAL ORDER. OWNER/DEVELOPER SHALL BE ALLOWED TO DEVELOP EACH PHASE SEPARATELY AS THE MARKET CONDITIONS ALLOW.
 2. IMPROVEMENTS ASSOCIATED WITH THE TRAVIS COUNTY HAROLD GREEN ROADWAY PROJECT WILL BE CONSTRUCTED AS NECESSARY TO SERVE THE PROPOSED PROJECT AND ARE NOT INCLUDED IN THIS PHASING PLAN.
 3. MINING OPERATIONS (INCLUDING RECLAMATION) WILL CEASE WITHIN 200' OF ANY RESIDENTIAL OR CIVIC LAND USE BY THE TIME THE FIRST CERTIFICATE OF OCCUPANCY IS GRANTED.
 4. APPLICABLE DOWNSTREAM IMPROVEMENTS (DRAINAGE & WATER QUALITY) TO BE CONSTRUCTED AS REQUIRED FOR APPLICABLE DEVELOPMENT PHASES.
 5. THE "OTHER PARKS" WILL BE PLANNED, DEVELOPED AND DEDICATED THROUGH THE SITE PLAN AND SUBDIVISION PROCESS IN PROPORTION TO DEVELOPMENT (E.G. 25% OF THE UNITS IN A SUBDIVISION WOULD REQUIRE 25% OF THE "OTHER PARKS" TO BE DEVELOPED AND DEDICATED). SURPLUS FROM ONE PHASE MAY BE APPLIED TO FUTURE PHASES SO LONG AS EVERY HOME IS WITHIN ¼ MILE OF AN "OTHER PARK" OR OPEN SPACE.
 6. ANY DEVELOPMENT AND ITS ASSOCIATED GRADING, RECLAMATION, AND/OR REVEGETATION WILL DEPICT HOW THE PROJECT ADHERES TO THE STANDARDS SET FORTH IN THIS PUD AT THE TIME OF THAT DEVELOPMENT'S ASSOCIATED PRELIMINARY PLAN, INFRASTRUCTURE IMPROVEMENT PLANS AND/OR SITE DEVELOPMENT PERMIT. ANY GRADING, RECLAMATION OR REVEGETATION WORK THAT OCCURS PRIOR TO A PRELIMINARY PLAN OR NEW SITE DEVELOPMENT PERMIT BUT NOT FOR THE PURPOSE OF DEVELOPMENT (E.G. CONTINUED RESOURCE EXTRACTION) WILL FILE FOR A CORRECTION OR MODIFICATION TO EXISTING PERMITS.
 7. REQUIRED URBAN TRAILS AS SHOWN IN THE PUD WILL BE CONSTRUCTED AND DEDICATED WITH EACH APPLICABLE PHASING AREA. URBAN TRAILS SHALL COUNT TOWARD ROUGH PROPORTIONALITY OF TRANSPORTATION IMPROVEMENTS.
 8. AN OS AREA SHALL BE DEVELOPED AND DEDICATED AT THE TIME ITS ASSOCIATED PHASE BEGINS DEVELOPMENT. OS AREAS 1-5 ALONG THE COLORADO RIVER SHALL HAVE PUBLIC ACCESS PRIOR TO DEDICATION THROUGH A PARK EASEMENT RECORDED AT THE TIME OF PUD APPROVAL.

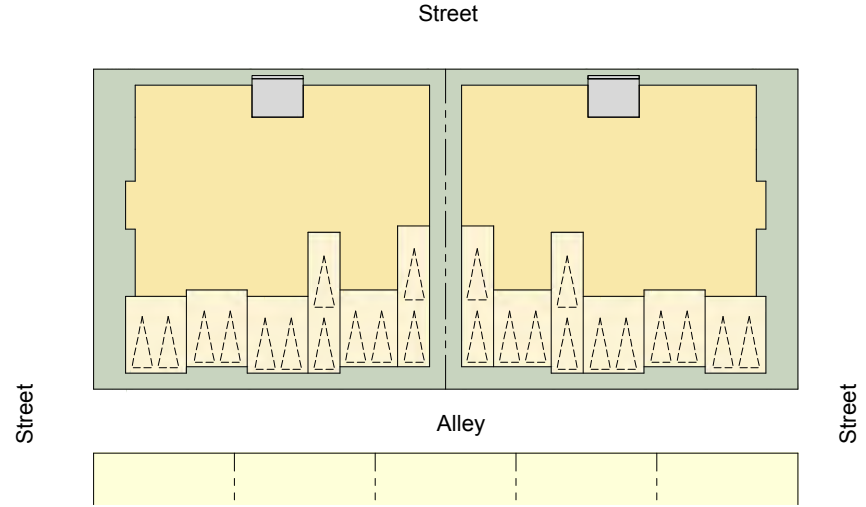
B-07
Residential Detached - Common Courtyard



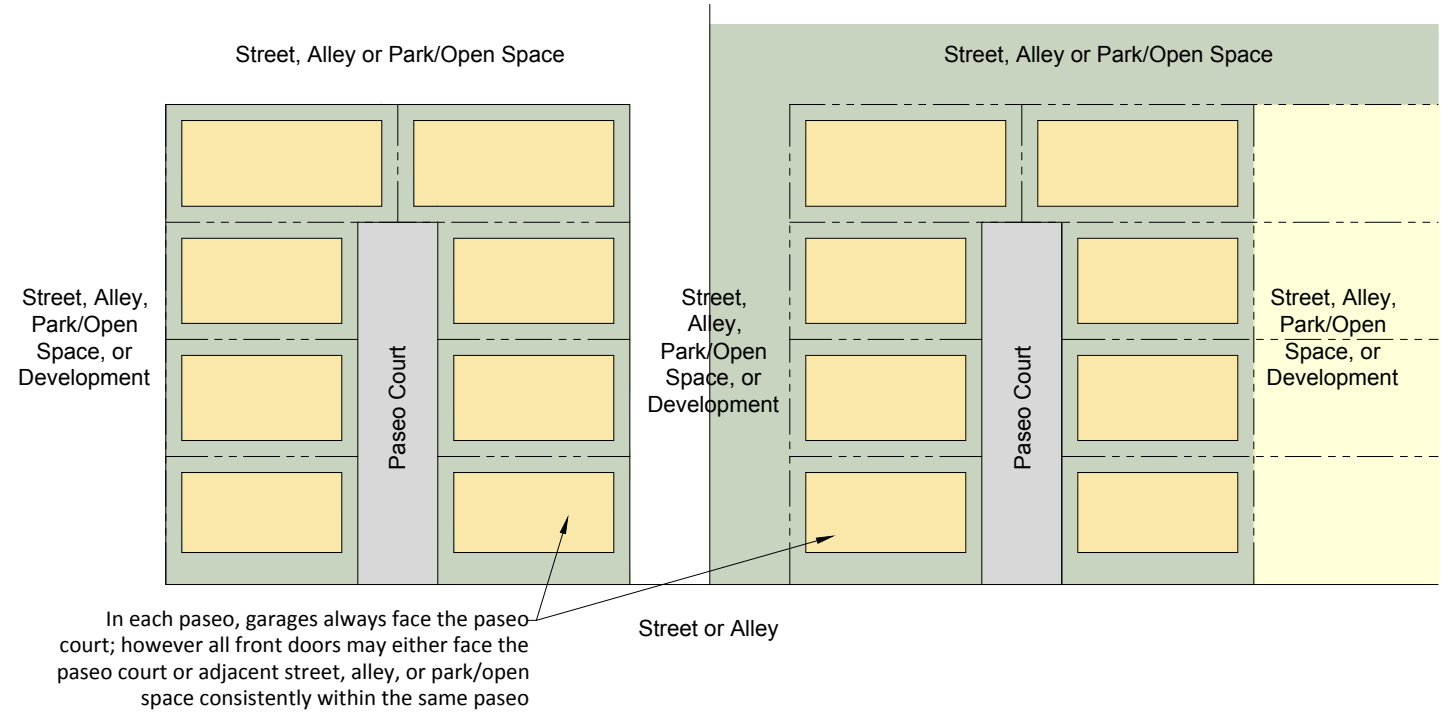
3 of 3
Residential Attached - Live/Work Unit, Townhouse



9 of 54
Residential Attached - Multi-Unit House (3 to 8 units)



Residential Detached - Paseo Court



PROPOSED

- For a complete description of proposed plan, please reference the following exhibits:
- Exhibit A - Description of Property
 - Exhibit B - Zoning Map
 - Exhibit C - Austin Green Land Use Map and Density Table
 - Exhibit D - Zoning Use Summary Table
 - Exhibit E - Site Development Regulations
 - Exhibit F - Proposed Parkland & Open Space Master Plan and Open Space Amenity Matrix
 - Exhibit G - Example Parkland Open Space Concepts
 - Exhibit H - Typical Road Sections
 - Exhibit I - Proposed Reclamation Guidelines
 - Exhibit J - Proposed Plant List for Reclamation in Open Space Areas
 - Exhibit K - Proposed Critical Water Quality Zone (CWQZ)
 - Exhibit L - Proposed Floodplain and Water Quality
 - Exhibit M - CEF and Buffers
 - Exhibit N - Phasing Plan
 - Exhibit O - Example Housing Products

GENERAL NOTES:

- Residential products and site layout shown are preliminary and shown for illustrative purposes only to illustrate intent of site design. Final layout, building placement and product to be determined during site plan, building permit, and/or preliminary plan.



MEMORANDUM

Date: November 21, 2019
To: Wendy Rhoades, Zoning Case Manager
CC: Kathy Smith, P.E., PTOE, HDR Engineering, Inc.
Reference: Austin Green – Planned Unit Development (PUD)
Transportation Impact Analysis Final Memo
C814-2018-0154

Summary of the Transportation Impact Analysis (TIA):

The Austin Transportation Department (ATD) has thoroughly reviewed the *"Traffic Impact Analysis – Austin Green"* dated October 4, 2019, prepared by HDR Engineering, Inc. The TIA is for a PUD zoning application currently in the Austin ETJ and is proposed to be annexed into the City's limited purpose jurisdiction through a Municipal Utility District consent agreement. Austin Green is anticipated to consist of 300,000 SF of general light industrial, 4,377 DU of single-family detached housing, 4,374 DU of multifamily housing (low-rise), 3,249 DU of multifamily housing (mid-rise), 1,500 student elementary school (two), 1,100 student middle school, 600,000 SF of general office building, 150,000 SF of medical-dental office building, and 650,000 SF of shopping center. It will be located on the east and west side of SH 130 between the Colorado River and FM 969 consisting of five tracts (Exhibit A). The development is anticipated to be completed by the year 2040.

Below is a summary of our review findings and recommendations:

1. A phasing agreement shall be submitted to, reviewed, and approved by the City of Austin before the first subdivision and/or site plan application. The phasing agreement shall include the proposed phasing of the entire PUD and required transportation improvements associated with each of the phases, as included, but not limited to, in this TIA memo.
2. A TIA may be required with every subdivision and site plan application in this PUD, per the applicable Land Development Code. Transportation improvements to be built or funded by the Applicant should be re-analyzed with each new subdivision or site plan TIA. If the subdivision or site plan TIA requires additional mitigations beyond the list mentioned in this TIA memo, the Applicant shall be required to build or fund the additional transportation improvements at the time of subdivision or site plan.
3. The Applicant shall design and construct, or fund the improvements as identified in Table 2 below (Summary of Required Transportation Improvements) as part of their subdivision or site development applications. The phasing agreement shall include the required transportation improvements associated with each of the phases of the PUD. No temporary certificate of occupancy (TCO) or certificate of occupancy (CO) shall be issued until the construction of the required improvements is complete.

Attachment A

4. If the Applicant is responsible for funding transportation improvements for a particular phase of the PUD as established in the phasing agreement, the Applicant shall pay the transportation mitigation fee-in-lieu to the responsible authority prior to the issuance of the first subdivision or site development permit within that phase.
5. Please note that the cost estimates included in Table 2 are based on the opinion of probable cost of improvements from the Applicant's consultant and is included here for information only. The cost estimates included in Table 2 **shall not** be assumed to represent the maximum dollar value of improvements the Applicant may be required to construct. The cost estimate for the transportation improvements shall be re-assessed at the time of site plan or subdivision application.
6. The Applicant shall commit to implement Transportation Demand Management (TDM) measures as part of each site plan to achieve a **minimum** 10% vehicle trip reduction as identified in the TIA scope. The Applicant shall be required to submit a Transportation Demand Management Plan at each subdivision or site plan application for staff's review and approval. Every site plan application submitted under this PUD shall try to achieve a higher TDM reduction based on the proposed land use intensities, which will be evaluated at the time of each submittal.
7. Development of this property should not vary from the approved uses or deviate from the approved intensities and estimated traffic generation assumptions within the finalized PUD TIA memo, including land uses, trip generation, trip distribution, other identified conditions. Applicant should consult with ATD and other responsible authority (TxDOT and/or Travis County) for driveway locations and traffic controls based on the Transportation Criteria Manual and Land Development Code in future site plan submittals. Any change in the assumptions made in the PUD TIA document shall be reviewed by ATD and may require a new or updated TIA.
8. The Applicant shall provide two copies of the final, updated version of the TIA within ten business days from the 3rd reading at City Council, matching Council's approved intensity recommendation.
9. The findings and recommendations of this TIA memorandum remain valid until five (5) years from the date of this memo, after which a revised TIA or addendum may be required at the discretion of ATD.

Assumptions:

1. The development is expected to be built by the year 2040.
2. A combined TDM and internal capture rate reduction of 10% was assumed for all residential, office, and retail land uses for tracts four and five. Internal capture was only calculated within a given parcel, and trips between different land uses on different parcels were not considered as internal capture trips.
3. 34% pass-by reduction for shopping center during the PM peak hour.
4. Considerations were made for the following background projects:
 - Interport South – C14-02-0013
 - WatersEdge PUD – C814-05-0069
 - Indian Hills – C14-2009-0089
 - Velocity Crossing – C14-2015-0117
 - Terrace at Hornsby Bend – SP-2017-0395D
5. Travis County and TxDOT have accepted this TIA.

Proposed Conditions:**Trip Generation and Land Use**

Based on the Institute of Transportation Engineers (ITE) Trip Generation Manual (10th Edition), the development would generate approximately 123,900 unadjusted average daily vehicles trips (ADT) at full build out.

Due the significant number of vehicular trips and the anticipated traffic load on the roadway network, the Applicant has committed to a Transportation Demand Management (TDM) Plan. Table 1 shows the adjusted trip generation after applying pass-by and TDM/internal capture reductions.

Table 1: Adjusted Trip Generation				
Proposed Land Use	Size/Unit	24-Hour Two-Way Volume Trips	AM Peak Hour	PM Peak Hour
Tract 1				
General Light Industrial	300,000 SF	1,195	101	79
Single-Family Detached Housing	500 DU	3,842	356	437
Multifamily Housing (Low-Rise)	500 DU	3,775	197	195
Tract 1 Total		8,812	654	711
Tract 2				
Single-Family Detached Housing	282 DU	2,167	200	246
Multifamily Housing (Low-Rise)	281 DU	2,122	111	110
Tract 2 Total		4,289	311	356
Tract 3				
Shopping Center	120,000 SF	3,289	88	264
Tract 4				
Single-Family Detached Housing	938 DU	6,487	600	737
Multifamily Housing (Low-Rise)	937 DU	6,368	334	329
Multifamily Housing (Mid-Rise)	750 DU	3,678	215	260
Elementary School	1,000 students	1,701	603	153

Middle School	1,100 students	2,109	575	169
Shopping Center	250,000 SF	6,168	166	496
Tract 4 Total		26,511	2493	2144
Tract 5				
Single-Family Detached Housing	2,657 DU	18,377	1700	2089
Multifamily Housing (Low-Rise)	2,656 DU	18,050	944	932
Multifamily Housing (Mid-Rise)	2,499 DU	12,256	718	867
Elementary School	500 students	851	302	77
General Office Building	600,000 SF	5,430	531	563
Medical-Dental Office Building	150,000 SF	5,108	288	460
Shopping Center	280,000 SF	6,908	185	556
Tract 5 Total		66,980	4668	5,544
Total				
		109,881	8212	9,019

Transportation Demand Management (TDM)

The Applicant has committed to a minimum TDM reduction of 10% (along with internal capture trips) to meet certain vehicle trip reduction targets. The Applicant has identified the following TDM measures that would be implemented at the time of subdivision or site plan to achieve the vehicular trip reduction:

- Contributions for Sustainable Transportation – Although not yet in Cap Metro service area, the Applicant shall provide land for transit stops and park and ride facilities as identified at the time of subdivision or site plan.
- Bicycle Parking
- Showers and Lockers
- Bicycle Repair Station
- Bicycle Maintenance Station
- Car Share Parking
- Unbundled Parking
- Short Term Daily Parking Provision
- Priced Parking
- Improved bicycle and pedestrian connectivity for all streets. Includes but not limited to physically separate bicycle facility, on-street bike lane or shared use path, sidewalk, and trail connections.

The Applicant shall submit a TDM plan for each subdivision / site plan to ATD for review and approval. While the Applicant committed to the broad spectrum of TDM measures, as noted above, the Applicant would have the flexibility to pick and choose other relevant TDM measures at the time of subdivision/site plan to further reduce vehicular trip generation.

Table 2: Summary of Required Transportation Improvements:

<u>Intersection/Roadway</u>	<u>Transportation Improvements</u>	<u>Responsibility</u>	<u>Estimated Cost</u> <u>(For Information Only)</u>
FM 973 and FM 969	Construct dual NB left-turn lanes	To be designed and constructed by the Applicant at the time of subdivision or site plan	\$300,000
	Construct SB left-turn lane		\$250,000
	Construct channelized EB right-turn lane		\$150,000
	Construct WB right-turn lane		\$150,000
	Signal modification and timing optimization		\$300,000
SH 130 SB FR and FM 969	Construct SB left-turn lane	To be reassessed at the time of subdivision or site plan	-
	Construct EB right-turn lane		-
	Signal timing optimization	To be paid by the Applicant as a transportation mitigation fee-in-lieu prior to the approval of subdivision or site plan	\$5,000
SH 130 NB FR and FM 969	Construct NB left-turn lane	To be reassessed at the time of subdivision or site plan	-
	Construct WB right-turn lane		-
	Signal timing optimization	To be paid by the Applicant as a transportation mitigation fee-in-lieu prior to the approval of subdivision or site plan	\$5,000
Hunters Bend Road/Delta Post Drive and FM 969	Restripe NB and SB approaches	To be paid by the Applicant as a transportation mitigation fee-in-lieu prior to the approval of subdivision or site plan	\$10,000
	Signal timing optimization		\$5,000
FM 973 and SH 71 WB FR	Construct NB acceleration lane for WB right turns	To be designed and constructed by the	\$10,000

	Construct WB acceleration lane for SB right turns	Applicant at the time of subdivision or site plan	\$150,000
	Signal timing optimization		\$5,000
FM 973 and SH 71 EB FR	Signal timing optimization	To be paid by the Applicant as a transportation mitigation fee-in-lieu prior to the approval of subdivision or site plan	\$5,000
SH 130 SB FR ad SH 71 WB FR	Construct SB through lane	To be reassessed at the time of subdivision or site plan	-
	Signal timing optimization	To be paid by the Applicant as a transportation mitigation fee-in-lieu prior to the approval of subdivision or site plan	\$5,000
SH 130 SB FR and SH 71 EB FR	Restripe SB approach	To be paid by the Applicant as a transportation mitigation fee-in-lieu prior to the approval of subdivision or site plan	\$10,000
	Construct EB right-turn lane	To be reassessed at the time of subdivision or site plan	-
	Signal timing optimization	To be paid by the Applicant as a transportation mitigation fee-in-lieu prior to the approval of subdivision or site plan	\$5,000
SH 130 NB FR and SH 71 WB FR	Restripe NB approach	To be paid by the Applicant as a transportation mitigation fee-in-lieu prior to the approval of subdivision or site plan	\$10,000

	Construct WB right-turn lane	To be reassessed at the time of subdivision or site plan	-
	Signal timing optimization	To be paid by the Applicant as a transportation mitigation fee-in-lieu prior to the approval of subdivision or site plan	\$5,000
SH 130 NB FR ad SH 71 EB FR	Construct NB right-turn lane	To be reassessed at the time of subdivision or site plan	-
	Signal timing optimization	To be paid by the Applicant as a transportation mitigation fee-in-lieu prior to the approval of subdivision or site plan	\$5,000
FM 973 and Platt Lane	Modify for right-in/right-out operation	To be designed and constructed by the Applicant at the time of subdivision or site plan	\$50,000
FM 973 and Harold Green Road	Install traffic signal	To be designed and constructed by the Applicant at the time of subdivision or site plan	\$250,000
	Construct dual SB left-turn lanes		\$200,000
	Construct SB through lane		***
	Construct two NB through lanes		***
	Construct NB right-turn lane		\$150,000
	Construct dual WB left-turn lanes		**
SH 130 SB FR and Harold Green Road	Install traffic signal	To be designed and constructed by the Applicant at the time of subdivision or site plan	\$250,000
	Construct channelized SB right-turn lane		\$200,000
	Construct EB through lane		**
	Construct channelized EB right-turn lane		\$200,000

	Construct dual WB left-turn lanes		\$250,000
	Construct WB through lane		**
SH 130 NB FR and Harold Green Road	Install traffic signal	To be designed and constructed by the Applicant at the time of subdivision or site plan	\$250,000
	Construct channelized NB right-turn lane		\$200,000
	Construct dual EB left-turn lanes		\$250,000
	Construct EB through lane		**
	Construct WB through lane		**
	Construct channelized WB right-turn lane		\$150,000
FM 973 and Garden Grove Drive/ Driveway 2B	Install traffic signal	To be designed and constructed by the Applicant at the time of subdivision or site plan	\$300,000
	Construct SB left-turn lane		\$200,000
	Construct two SB through lanes		***
	Construct NB left-turn lane		\$200,000
	Construct two NB through lanes		***
	Construct WB left-turn lane		\$150,000
FM 973 and Prado Ranch Boulevard	Install traffic signal	To be designed and constructed by the Applicant at the time of subdivision or site plan	\$300,000
	Construct SB left-turn lane		\$200,000
	Construct two SB through lanes		***
	Construct two NB through lanes		***
FM 973 and Thyone Road	Install traffic signal	To be designed and constructed by the Applicant at the time of subdivision or site plan	\$300,000
	Construct two SB through lanes		***
	Construct two NB through lanes		***
FM 973 and Driveway 1A	Install traffic signal	To be designed and constructed by the	\$300,000
	Construct SB left-turn lane		\$200,000

	Construct SB through lane	Applicant at the time of subdivision or site plan	***
	Construct NB through lane		***
	Construct NB right-turn lane		\$150,000
FM 973 and Driveway 1B	Construct SB left-turn lane	To be designed and constructed by the Applicant at the time of subdivision or site plan	\$200,000
	Construct SB through lane		***
	Construct NB through lane		***
FM 973 and Driveway 1C	Install traffic signal	To be designed and constructed by the Applicant at the time of subdivision or site plan	\$300,000
	Construct SB left-turn lane		\$200,000
	Construct SB through lane		***
	Construct NB through lane		***
	Construct NB right-turn lane		\$150,000
FM 973 and Driveway 2A	Construct two SB through lanes	To be designed and constructed by the Applicant at the time of subdivision or site plan	***
	Construct NB left-turn lane		\$200,000
	Construct two NB through lanes		***
Driveway 3A/Driveway 4A and Harold Green Road	Construct roundabout	To be designed and constructed by the Applicant at the time of subdivision or site plan	\$400,000
Driveway 4B and Harold Green Road	Construct EB through lane	To be designed and constructed by the Applicant at the time of subdivision or site plan	**
	Construct WB left-turn lane		\$150,000
	Construct WB through lane		***
FM 973 and Driveway 4C	Construct SB left-turn lane	To be designed and constructed by the Applicant at the time of subdivision or site plan	\$200,000
	Construct two SB through lanes		***
	Construct two NB through lanes		***
FM 973 and Roadway D	Install traffic signal	To be designed and constructed by the	\$300,000
	Construct SB through lane		***

	Construct NB through lane	Applicant at the time of subdivision or site plan	***
	Construct channelized NB right-turn lane		\$200,000
Driveway 51 and FM 969	Install traffic signal	To be designed and constructed by the Applicant at the time of subdivision or site plan	\$300,000
FM 973 (b/w SH 71 and Roadway D)	Widening roadway to six lane section	To be designed and constructed by the Applicant at the time of subdivision or site plan	\$576,000
FM 973 (b/w Roadway D and Harold Green)	Widen roadway to six lane section		\$7,296,000
FM 973 (b/w Harold Green and FM 969)	Widen roadway to four lane section		\$4,176,000
	Total		\$22,333,000

**** To be constructed as part of subdivision / site plan (not considered as transportation system mitigation)**

***** Pro-rata calculated as part of FM 973 roadway widening (see last three rows of table)**

Please note that the cost estimates included in Table 2 are included here for information only. The cost estimates included in Table 2 **shall not** be assumed to represent the maximum dollar value of improvements the Applicant may be required to construct. The cost estimate for the transportation improvements shall be re-assessed at the time of site plan or subdivision application.

The phasing agreement shall include the phasing of required transportation improvements associated with each of the phases of the PUD. No temporary certificate of occupancy (TCO) or certificate of occupancy (CO) shall be issued until the construction of the required improvements is complete for each of the phases.

A TIA may be required with every subdivision and site plan application in this PUD, per the applicable Land Development Code. Transportation improvements to be built or funded by the Applicant should be re-analyzed with each new subdivision or site plan TIA. If the subdivision or site plan TIA requires additional mitigations beyond the list mentioned in this TIA memo, the Applicant shall be required to build or fund the additional transportation improvements at the time of subdivision or site plan.

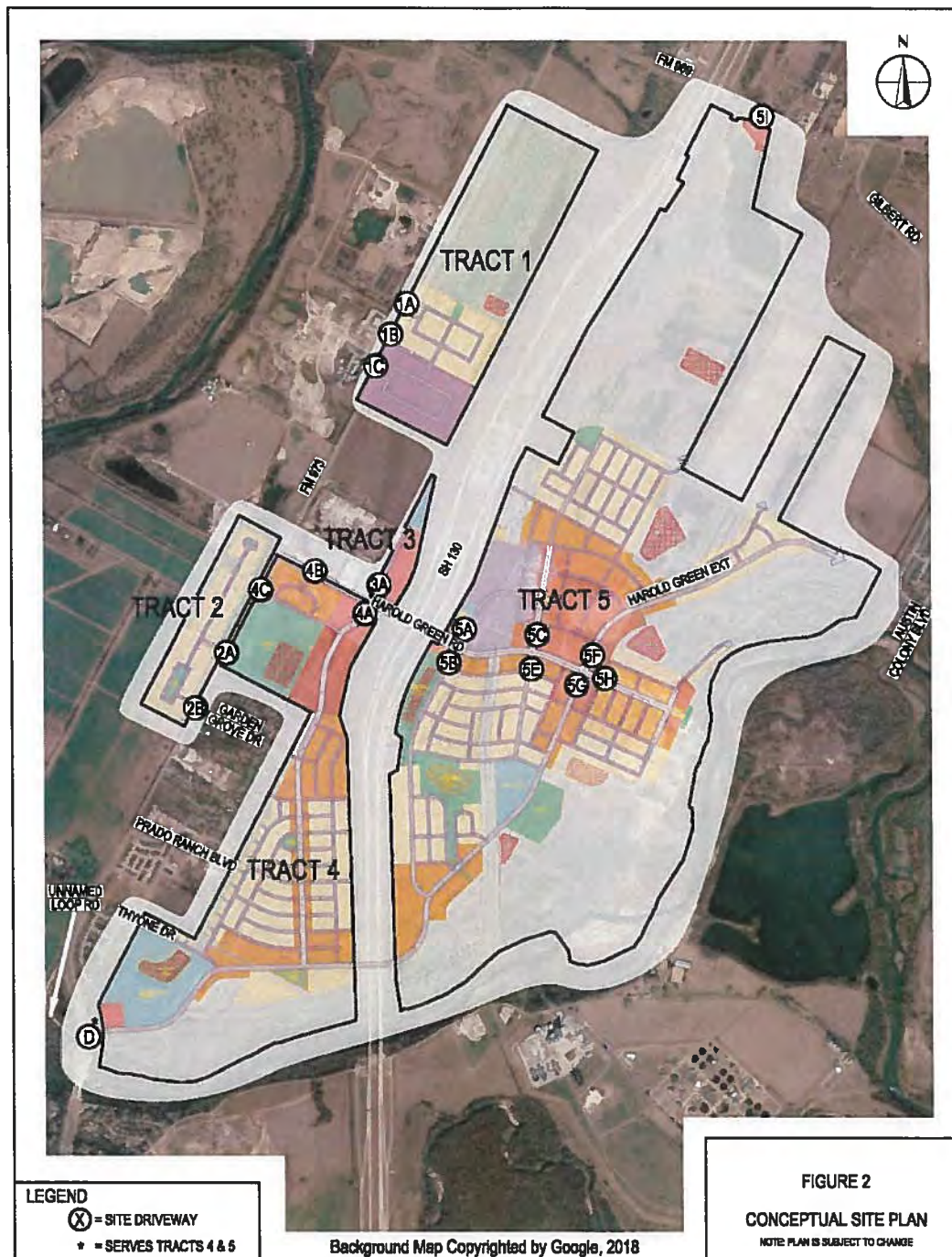
If you have any questions or require additional information, please contact me at 512-974-4073.

A handwritten signature in black ink, reading "Nazlie Saeedi". The signature is written in a cursive style with a large initial 'N' and a stylized 'S'.

Nazlie Saeedi, P.E.
Austin Transportation Department



EXHIBIT A



Source: HDR, Inc.

**ENVIRONMENTAL COMMISSION MOTION 20200115 008b**

Date: January 15, 2020

Subject: Austin Green Planned Unit Development, C814-2018-0154

Motion by: Katie Coyne

Seconded by: Mary Ann Neely

RATIONALE:

WHEREAS, increased development pressure to the City's east will make it even more vital to develop in environmentally sensitive ways;

WHEREAS, the site is identified in Imagine Austin as a Town Center;

WHEREAS, the applicant is committed to dedicating over 858.22 acres, approximately 40% of the site, as parkland or open space;

WHEREAS, the applicant is committed to meeting existing code or in most cases, exceeding Planned Unit Development (PUD) superiority requirements;

WHEREAS, the applicant is requesting approval to create a new PUD with superior environmental design;

WHEREAS, the applicant is committed to restoring previously industrial land to functioning riparian and open space assets; and

WHEREAS, City of Austin Staff recommends the approval with conditions outlined below.

THEREFORE, approval of the requested PUD creation with the ongoing commitment of the applicant to meet superiority elements outlined in the meeting backup, and with the following conditions:

Environmental Commission Conditions:

1. That the applicant continue to work with and get approval from the Watershed Protection department for a land management and maintenance plan for parkland, open space, riparian zones, green infrastructure features, and other environmentally sensitive areas on site to ensure the long-term environmental function of the landscapes; and, that the applicant commit to this plan in the long-term.
2. Explore carbon capture credits and other mitigation banking that may encourage climate action / carbon sequestration efforts regionally.
3. 858.22 (40%) acres of public open space and parkland, which includes approximately three miles of Colorado River frontage shall be provided.

4. Open space areas shall be restored with appropriate native vegetation outlined in the PUD.
5. Parks and open space areas shall utilize reclaimed water for irrigation.
6. 65% of stormwater shall be treated by dispersed green stormwater infrastructure which includes bio-filtration, rain gardens, and vegetated filter strips.
7. 77 acres of off-site drainage area shall be treated.
8. The project shall provide approximately 50 million cubic feet of additional storage volume for the watershed through a series of on-site retention ponds. Approximately 100 million cubic feet of additional storage volume shall be provided beyond the minimum required for on and off-site flows through three (3) on-site regional retention ponds for the Elm Creek watershed. The proposed 450-acre retention ponds will remove approximately 238 acres of neighboring property and 43 acres of Harold Green Road Right Of Way from the floodplain. These calculations are based on the Atlas 14 flood model for the adjusted 100-year floodplain.
9. Shall provide 29 acres of additional critical water quality zone.
10. Shall preserve 12.91 acres of wetland Critical Environmental Features (CEFs), 12.74 acres of wetland CEFs shall be enhanced and 9.97 acres of wetland CEFs shall be mitigated at 150% acre-for-acre and given the 150-foot buffer required by code.
11. Impervious cover shall be capped at 65% gross site area.
12. Shall preserve a significant stand of trees that have been identified on-site and shall meet current code for tree removal and mitigation.
13. Shall provide 6 miles of public trails throughout the development.
14. Shall meet a Carbon Impact score of 8.

VOTE 8-0

For: Bedford, Smith, Creel, Thompson, Guerrero, Coyne, Neely, and Maceo

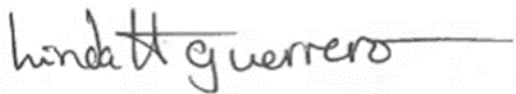
Against: None

Abstain: None

Recuse: Ramberg

Absent: Nill and Gordon

Approved By:

A handwritten signature in black ink that reads "Linda H. Guerrero". The signature is written in a cursive, flowing style with a long horizontal line extending from the end.

Linda Guerrero, Environmental Commission Chair

**ITEM FOR ENVIRONMENTAL COMMISSION AGENDA**

COMMISSION MEETING DATE:	January 15, 2020
NAME & NUMBER OF PROJECT:	Austin Green PUD C814-2018-0154
NAME OF APPLICANT OR ORGANIZATION:	Steven Spears Groundwork
LOCATION:	11600-12337 Harold Green Road
COUNCIL DISTRICT:	2-mile ETJ, will be District 2 once PUD is approved
ENVIRONMENTAL REVIEW STAFF:	Atha Phillips, Environmental Officer's Office (512) 974-2132, atha.phillips@austintexas.gov
ZONING CASE MANAGER:	Wendy Rhoades, Planning and Zoning (512) 974-7719, wendy.rhoades@austintexas.gov
WATERSHED:	Colorado River Basin and Elm Creek Watershed, Suburban Watershed Classification, Desired Development Zone
REQUEST:	To create a new Planned Unit Development (PUD)
STAFF RECOMMENDATION:	Staff recommended with conditions
RECOMMENDED CONDITIONS:	<ol style="list-style-type: none">1. 858.22 (40%) acres of public open space and parkland, which includes approximately three miles of Colorado river frontage shall be provided.2. Open space areas shall be restored with appropriate native vegetation outlined in the PUD.3. Parks and open space areas shall utilize reclaimed water for irrigation.4. 65% of stormwater shall be treated by dispersed green stormwater infrastructure which includes bio-filtration, rain gardens, and vegetated filter strips.5. 77 acres of off-site drainage area shall be treated.

6. The project shall provide approximately 50 million cubic feet of additional storage volume for the watershed through a series of on-site retention ponds. Approximately 100 million cubic feet of additional storage volume shall be provided beyond the minimum required for on and off-site flows through three (3) on-site regional retention ponds for the Elm Creek watershed. The proposed 450-acre retention ponds will remove approximately 238 acres of neighboring property and 43 acres of Harold Green Road ROW from the floodplain. These calculations are based on the Atlas 14 flood model for the adjusted 100-year floodplain.
7. Shall provide 29 acres of additional critical water quality zone.
8. Shall preserve 12.91 acres of wetland CEFs, 12.74 acres of wetland CEF shall be enhanced and 9.97 acres of wetland CEF shall be mitigated at 150% acre-for-acre and given the 150-foot buffer required by code.
9. Impervious cover shall be capped at 65% gross site area.
10. Shall preserve a significant stand of trees that have been identified on-site and shall meet current code for tree removal and mitigation.
11. Shall provide 6 miles of public trails throughout the development.
12. Shall meet a Carbon Impact score of 8.

Austin Green PUD

C814-2018-0154






Atha Phillips, Environmental Program Coordinator

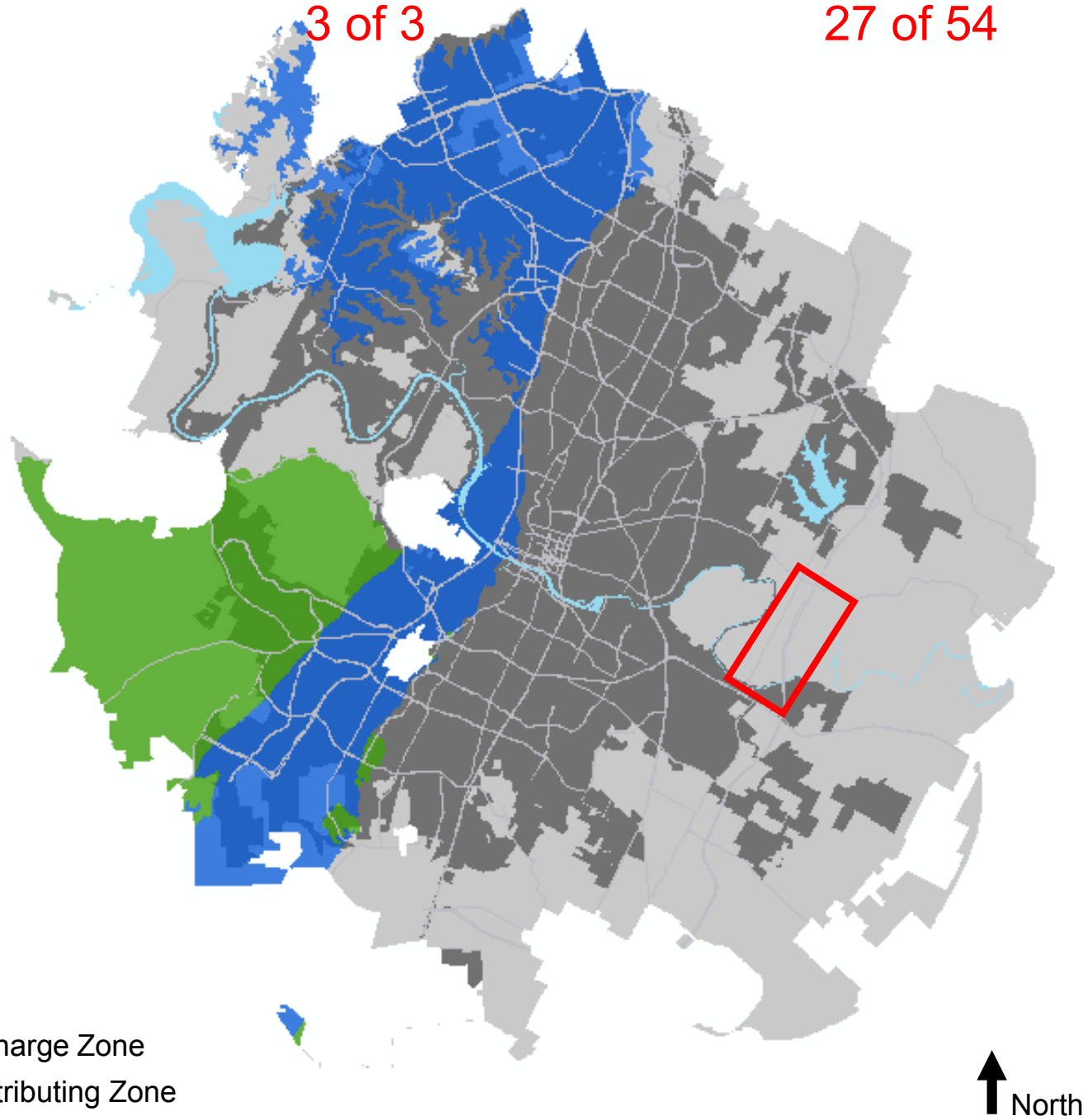
Environmental Officer's Office

B-07

3 of 3

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-  Site Location
-  Austin ETJ
-  Austin City Limits
-  Edwards Aquifer Recharge Zone
-  Edwards Aquifer Contributing Zone





B-07

3 of 3

29 of 54

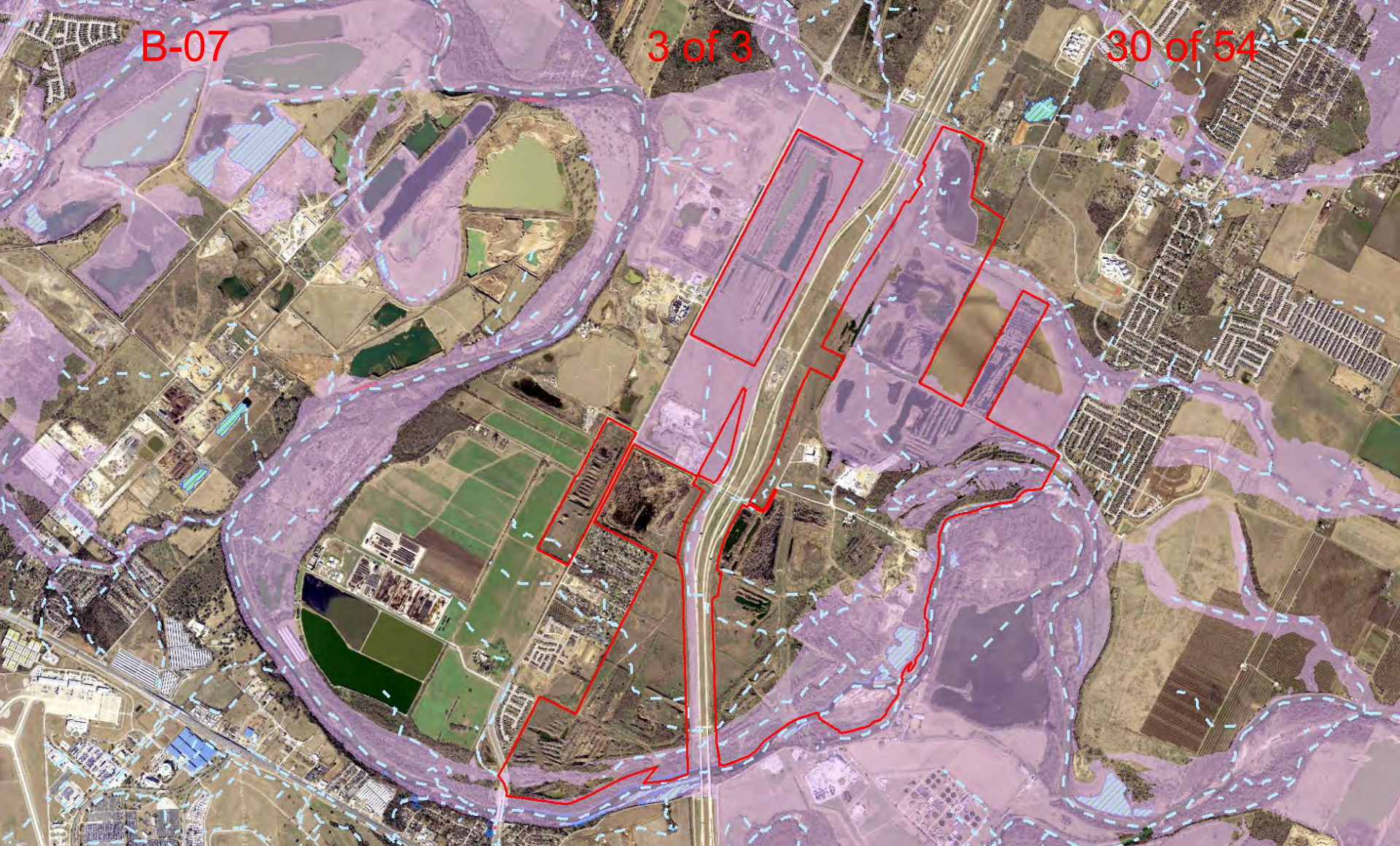
Elm Creek
Watershed

Colorado River
Basin

B-07


3 of 3

30 of 54



Existing Floodplain

 Site Location

 North

B-07

3 of 3

31 of 54



Existing
Critical Water Quality Zone

Site Location

North



Open Space Area 1



3 of 3



Open Space Area 3

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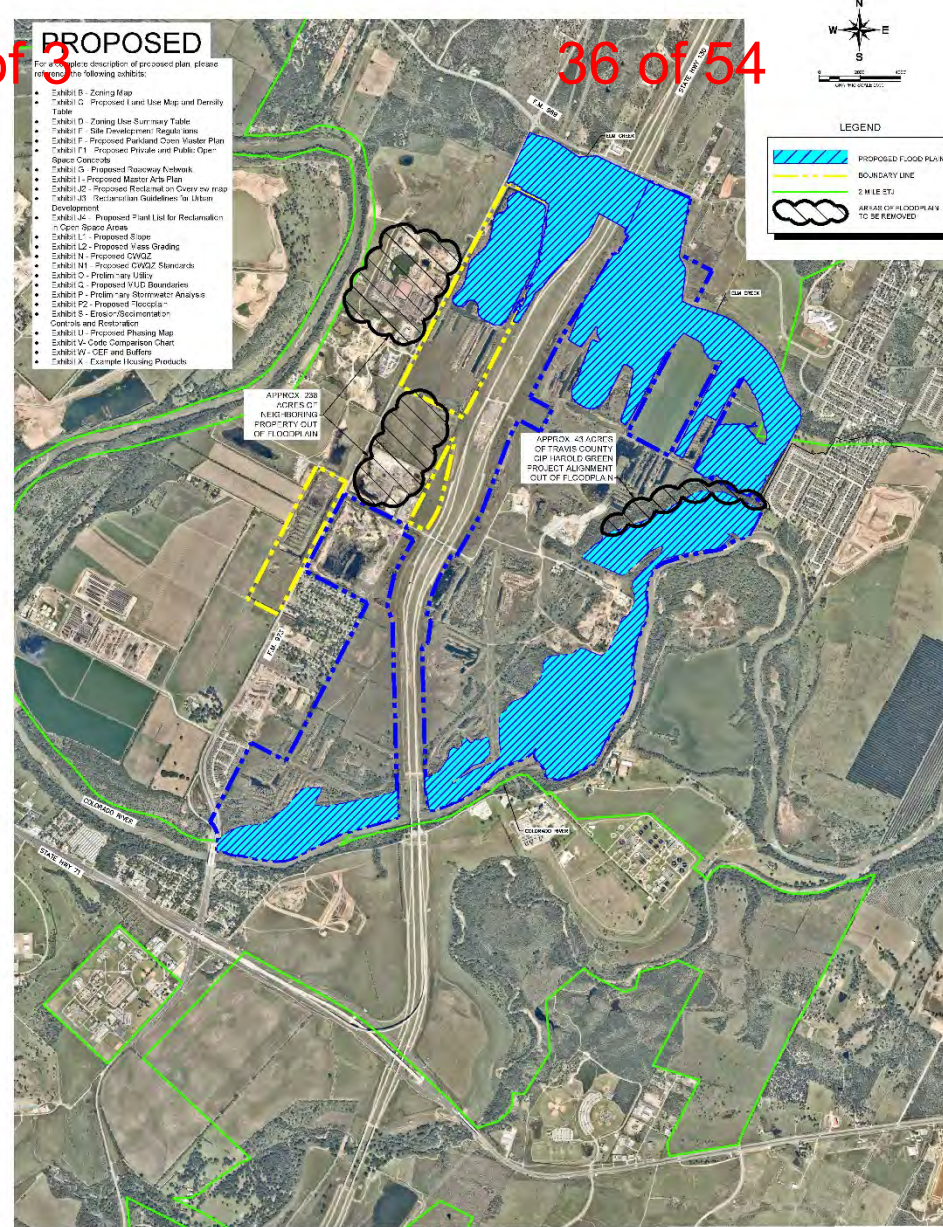
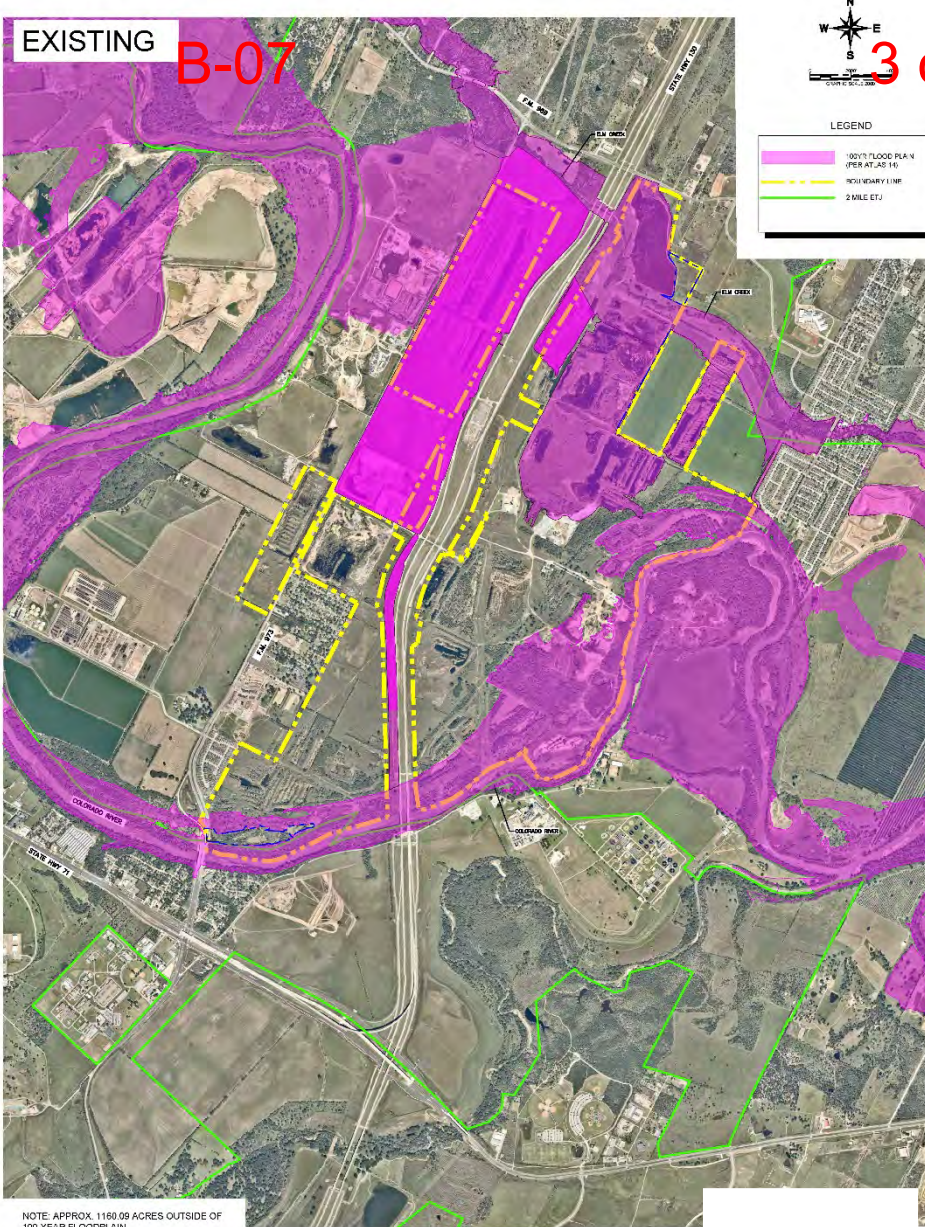


B-07 Background:

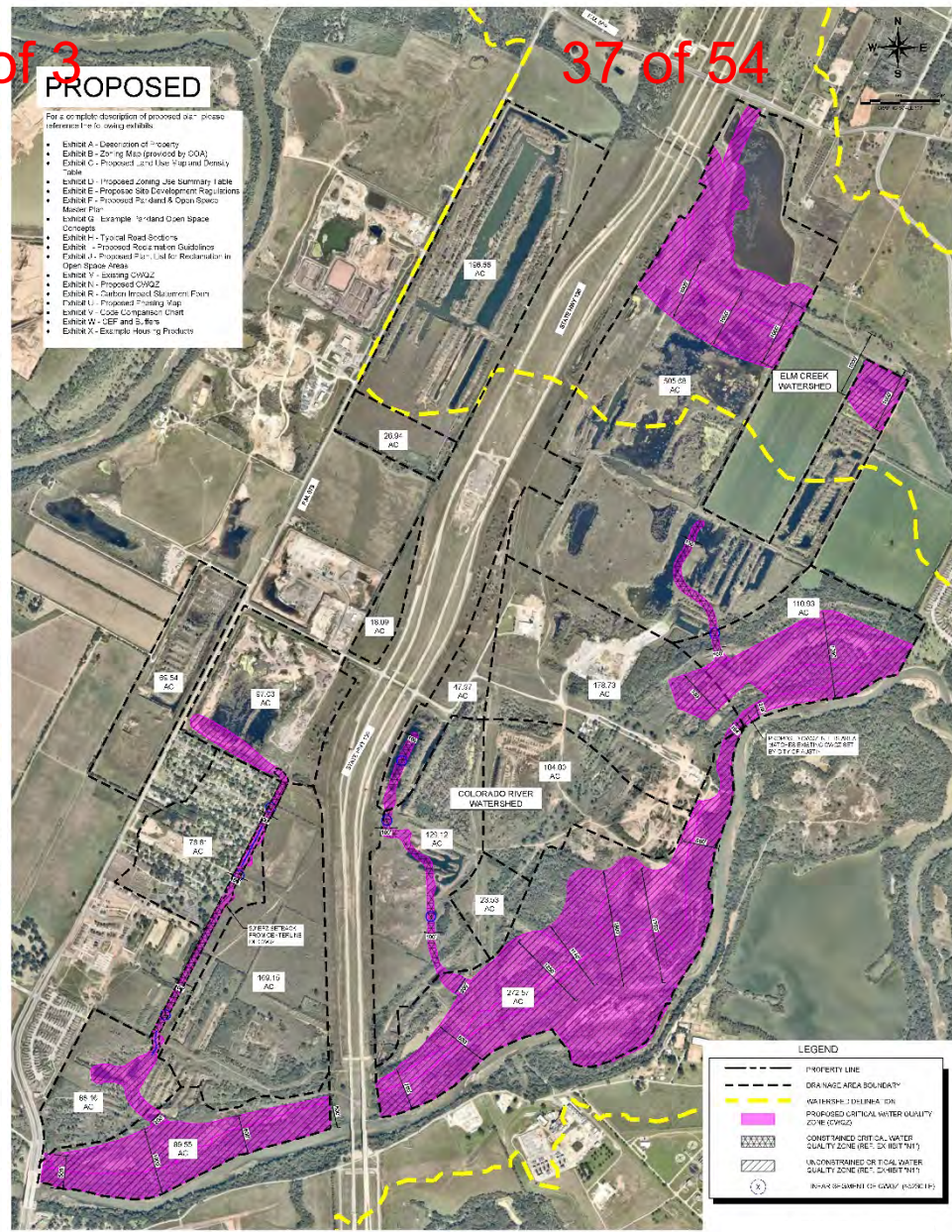
3 of 3

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- 2,126.25 acres
- Colorado River and Elm Creek Watersheds
- Active mining site
- Mining has continued on this site for over 60 years
- Currently operates one of the highest producing concrete batch plants in the Austin area
- Identified in Imagine Austin as a Town Center

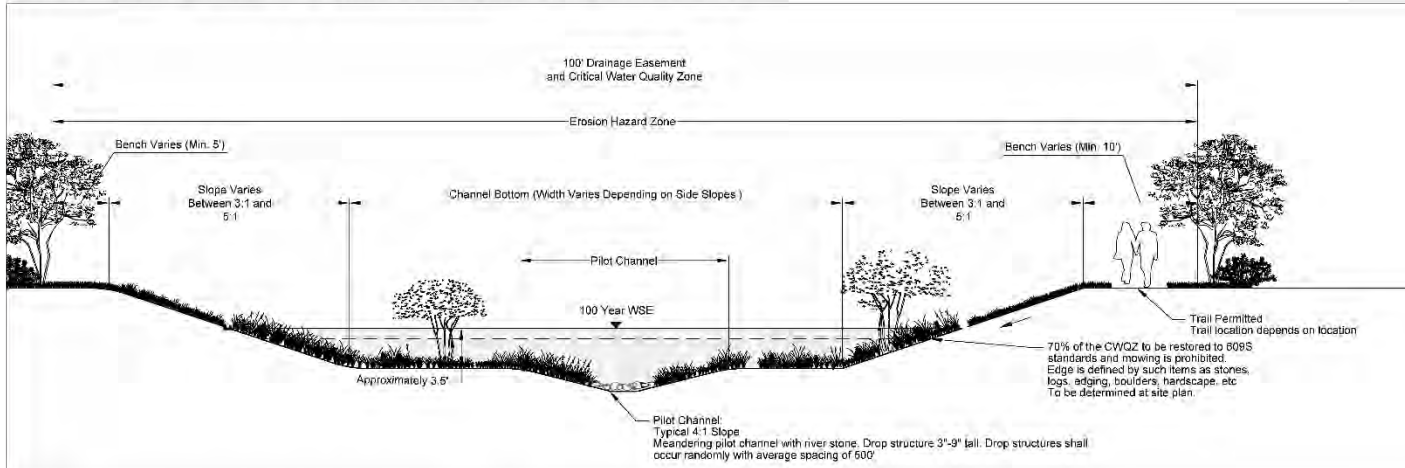


Existing and Proposed Floodplain
Approximately 238 acres of property and 43 of ROW removed from the floodplain

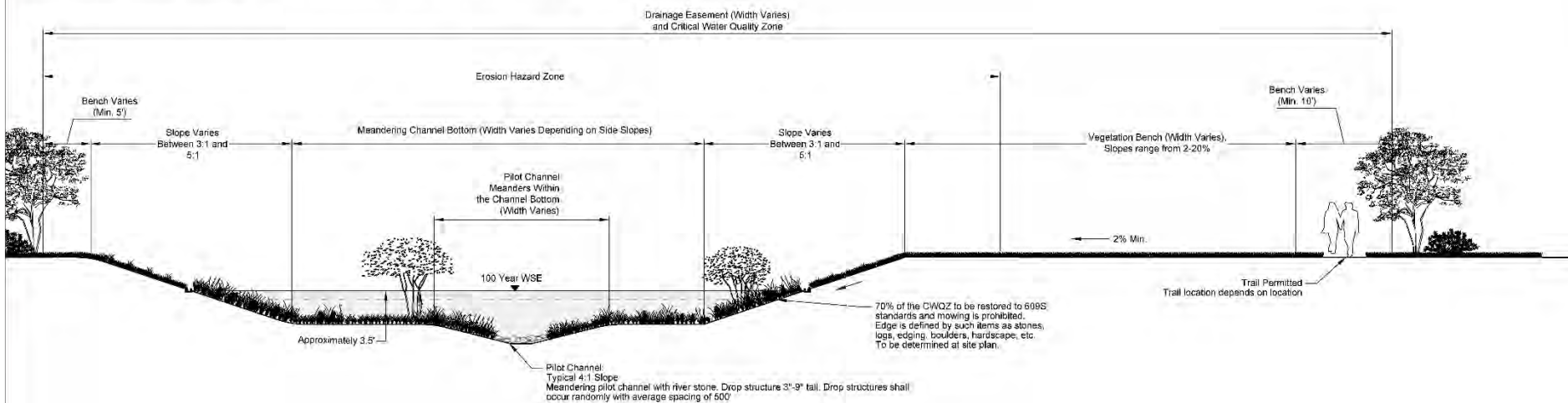


Existing and Proposed Critical Water Quality Zone
Originally 486 acres Proposed 515 acres = 29 additional acres of CWQZ

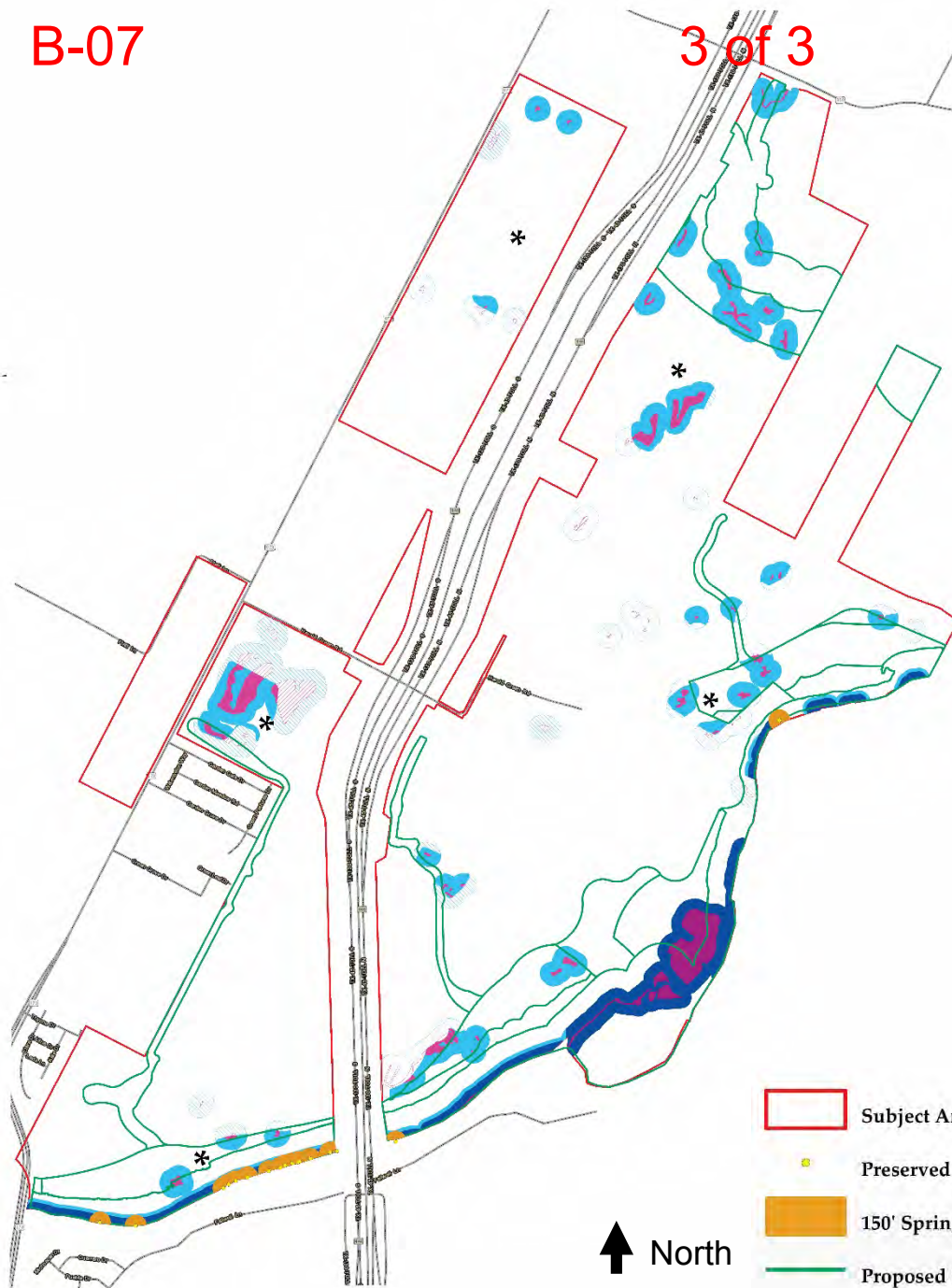
CONSTRAINED CHANNEL DIAGRAM OF 100' CWQZ OR DRAINAGE EASEMENT AREA - TYPICAL SECTION



UNCONSTRAINED CHANNEL DIAGRAM > 100' CWQZ OR DRAINAGE EASEMENT AREA - TYPICAL SECTION



Proposed Critical Water Quality Zone





	Existing mined land with poor to fairly-poor vegetative conditions
	Existing CEF Areas
	Preserved CEF Areas
	Preserved Tree Stands
	Inconsistent and low to mid quality tree stands primarily growing on overburdened areas.
	Former ranch land
	Elm Creek Regional Retention Water Bodies
	Blackland Prairie (Open Space)
	Bottomland Hardwood (Open Space)
	Urban Development (1418.03 Acres)
	Existing CEF Springs
	Collection of eight trees (2 red oak, 4 live oak, 1 burr oak, 1 pecan) around existing structures*
	± 65.5 acres mature stand of trees*
	± 10.6 acres established CEFs*
	Existing mining area with 3:1 or greater slopes
	Concrete batch plant
	± 24.4 acres island in Colorado River*
	Tree Wind Row

*Proposed to be protected upon approval of PUD and before reclamation.



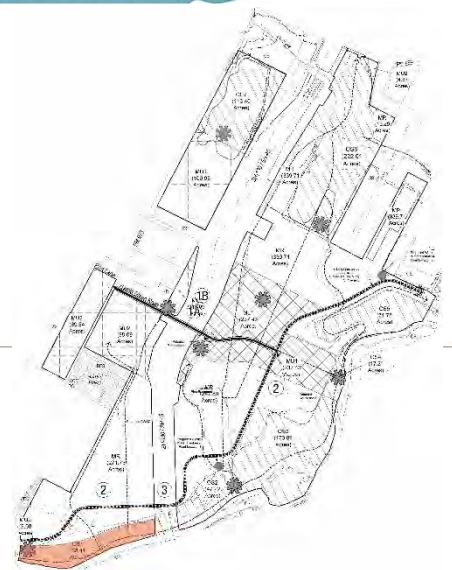
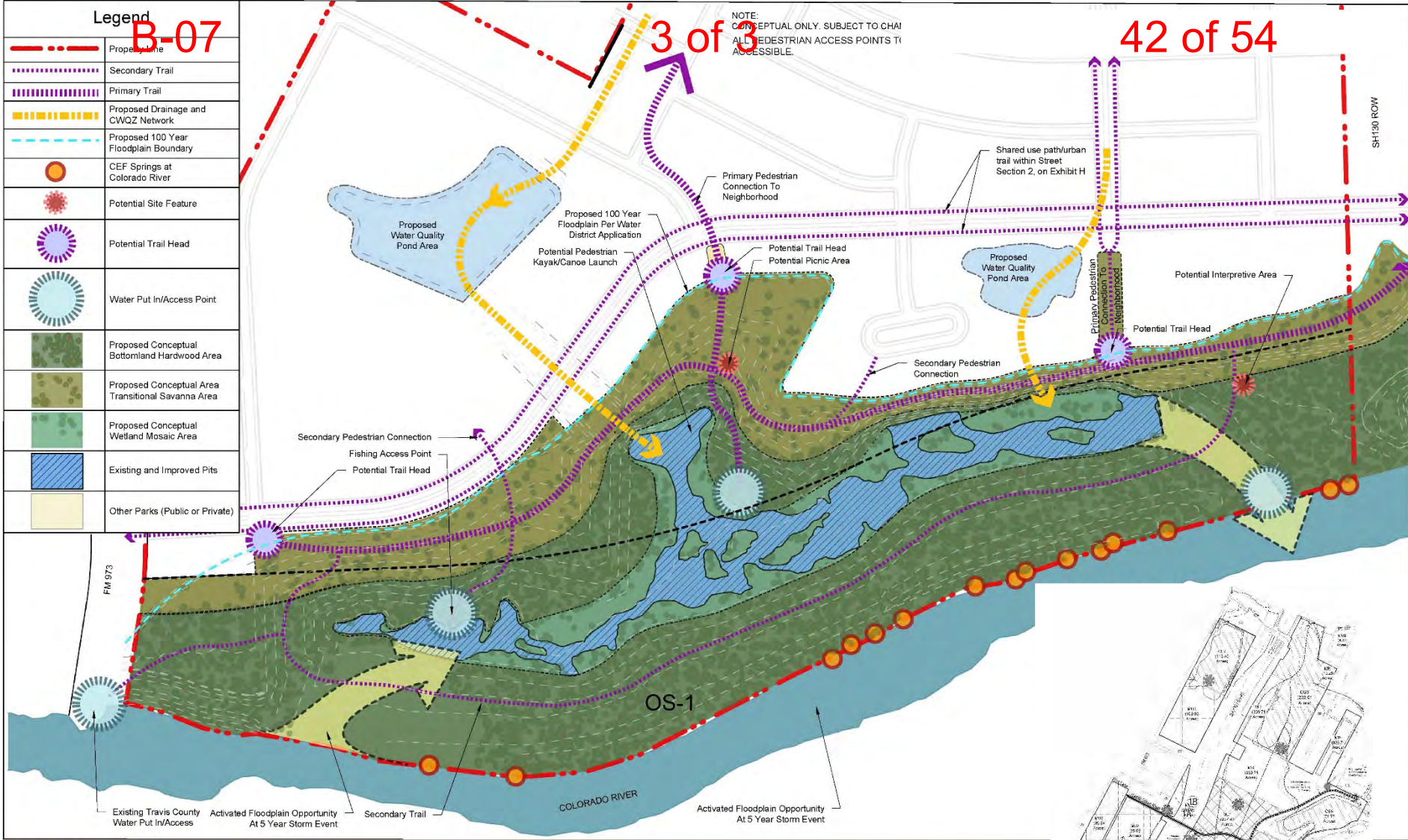
Legend

	0.5 ac. to 3 Acre Parks, see Exhibit F2 for amenities.
	3 to 5 Acre Parks, see Exhibit F2 for amenities.
	5-10 Acre Parks, see Exhibit F2 for amenities.
	10+ Acre Parks, see Exhibit F2 for amenities.
	Potential Park Areas with Water Put-in Location
	Potential Trail and Connectivity*
	Potential Bike Route*
	Elm Creek Regional Retention Water Bodies
	Open Space (may include some parkland)
	Park & Open Space Transition Area (combination of both public parkland and private residential, commercial or industrial development)
	Proposed Critical Water Quality Zone (CWQZ)
	1/4-Mile Distance from Open Space or Potential Park Area
	1/2-Mile Distance from Open Space or Potential Park Area

Legend

	Proposed Line
	Secondary Trail
	Primary Trail
	Proposed Drainage and CWQZ Network
	Proposed 100 Year Floodplain Boundary
	CEF Springs at Colorado River
	Potential Site Feature
	Potential Trail Head
	Water Put In/Access Point
	Proposed Conceptual Bottomland Hardwood Area
	Proposed Conceptual Area Transitional Savanna Area
	Proposed Conceptual Wetland Mosaic Area
	Existing and Improved Pits
	Other Parks (Public or Private)

B-07



3 of 3

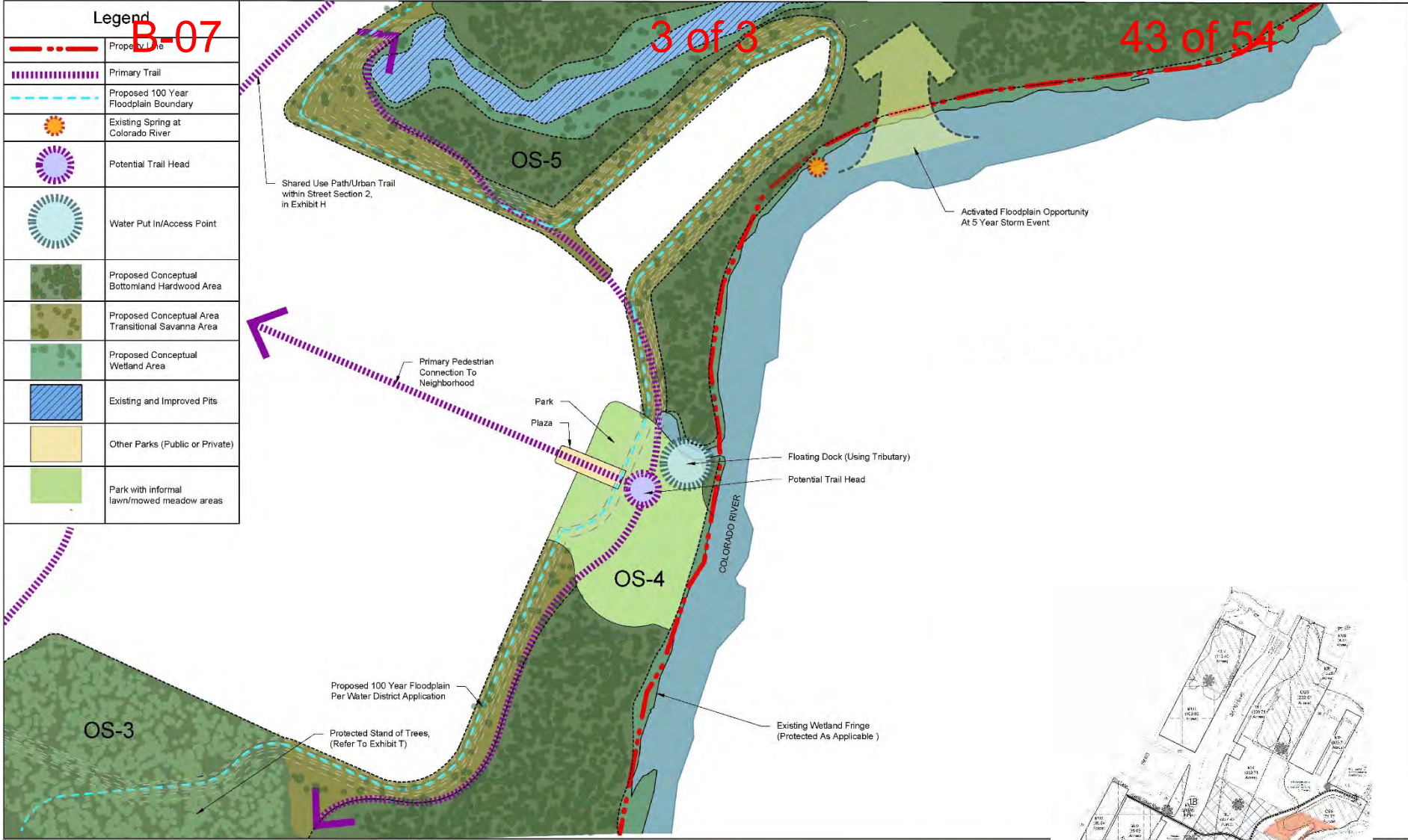
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NOTE: CONCEPTUAL ONLY. SUBJECT TO CHAI
ALL PEDESTRIAN ACCESS POINTS TO
ACCESSIBLE.

Legend

B-07

	Proposed Line
	Primary Trail
	Proposed 100 Year Floodplain Boundary
	Existing Spring at Colorado River
	Potential Trail Head
	Water Put In/Access Point
	Proposed Conceptual Bottomland Hardwood Area
	Proposed Conceptual Area Transitional Savanna Area
	Proposed Conceptual Wetland Area
	Existing and Improved Pits
	Other Parks (Public or Private)
	Park with informal lawn/mowed meadow areas

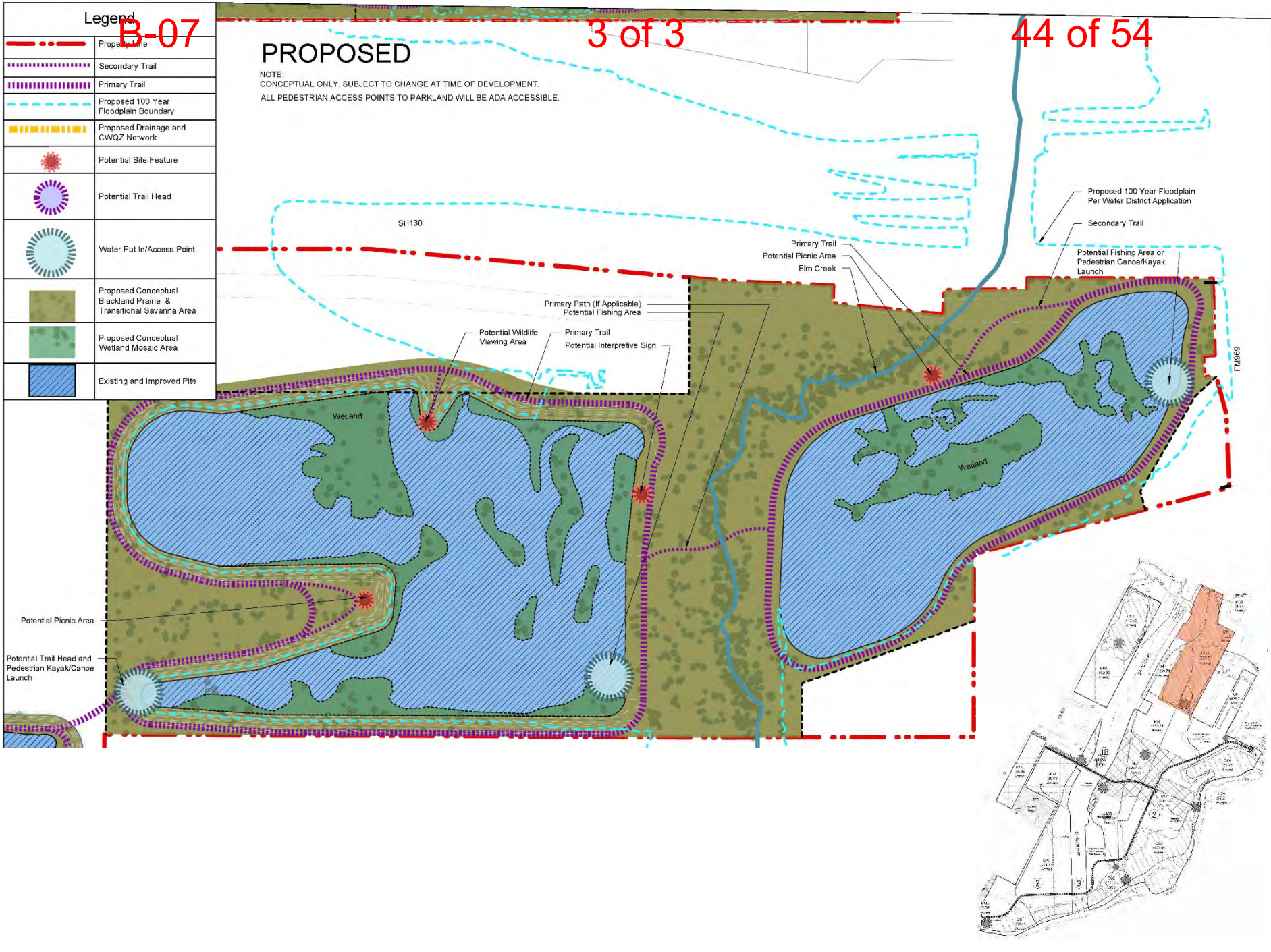


B-07

Legend	
	Proposed Line
	Secondary Trail
	Primary Trail
	Proposed 100 Year Floodplain Boundary
	Proposed Drainage and CWQZ Network
	Potential Site Feature
	Potential Trail Head
	Water Put In/Access Point
	Proposed Conceptual Blackland Prairie & Transitional Savanna Area
	Proposed Conceptual Wetland Mosaic Area
	Existing and Improved Pits

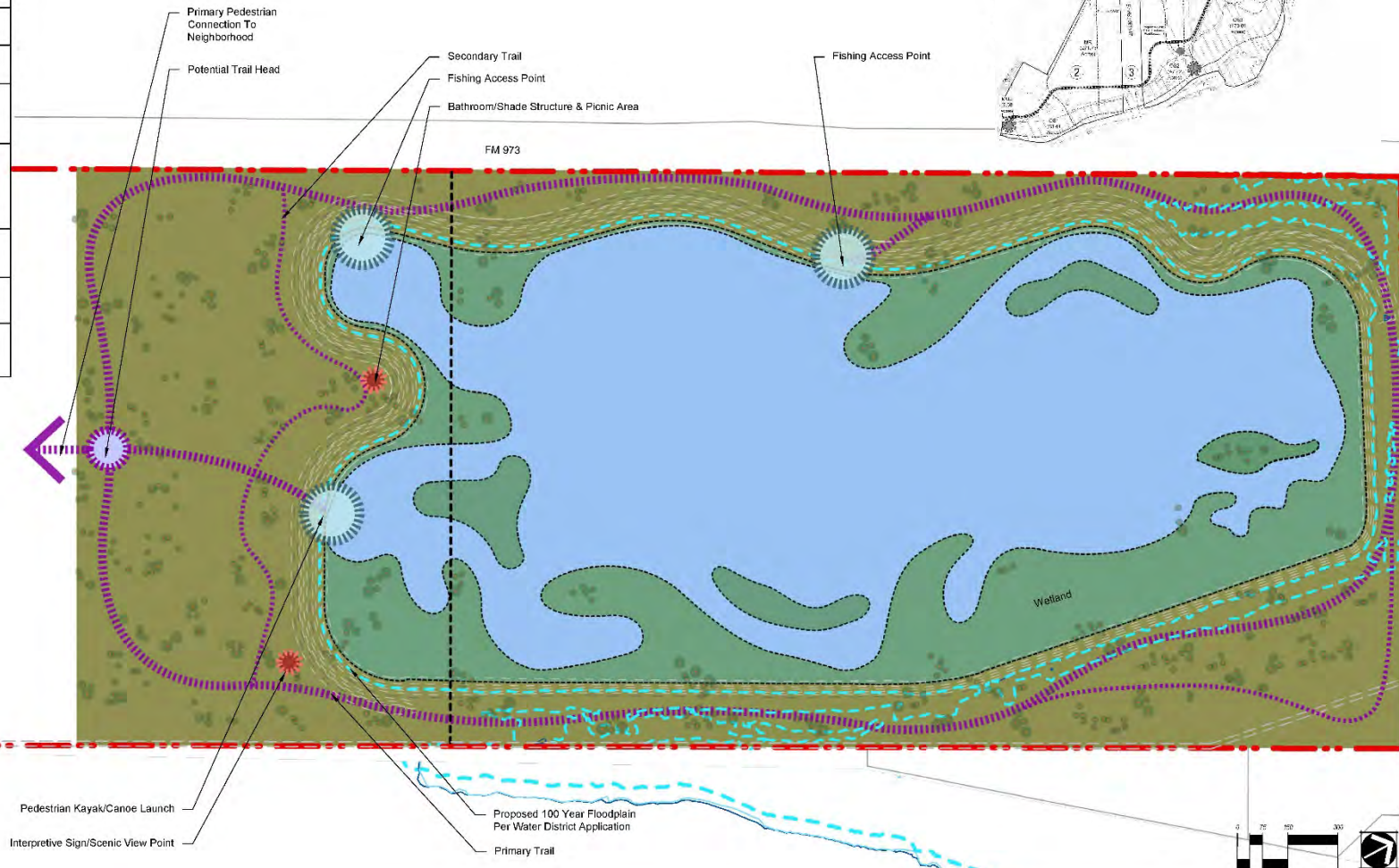
PROPOSED

NOTE:
CONCEPTUAL ONLY. SUBJECT TO CHANGE AT TIME OF DEVELOPMENT.
ALL PEDESTRIAN ACCESS POINTS TO PARKLAND WILL BE ADA ACCESSIBLE.



Legend

	Property Line
	Secondary Trail
	Primary Trail
	Proposed 100 Year Floodplain Boundary
	Potential Site Feature
	Potential Trail Head
	Water Put In/Access Point
	Proposed Conceptual Blackland Prairie & Transitional Savanna Area
	Proposed Conceptual Wetland Mosaic Area
	Existing and Improved Pits



B-07 Comparison:

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	Existing Code	Proposed PUD	
Water Quality	100% capture volume or payment in lieu	100% capture volume 65% Green Stormwater Infrastructure Treating an additional 77 acres off-site area	✓
Drainage	No adverse impact	No adverse impact, floodplain will be modified to create flood storage ponds that will remove approximately 238 acres of neighboring property and 43 acres of Harold Green ROW from the Atlas 14 100-year floodplain.	✓
Impervious Cover	80% Commercial 60% Multi-family	65% Gross site area 1% of impervious cover reserved for parks	✓
Open Space	20% of non-residential tracts (Tier 1) Additional 20% (Tier 2)	708.22 acres open space 150 acres dedicated parkland Total: 858.22 acres (40%)	✓
Floodplain & CWQZ Restoration	Only standard revegetation with mining permit	Open space areas and critical water quality zones shall be restored with appropriate native vegetation outlined in the PUD.	✓
CWQZ	Begins at 64 acres	Re-establishing CWQZ and providing 29 additional acres	✓

B-07 Comparison:

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	Existing Code	Proposed PUD	
Landscape Irrigation	Potable water	100% reclaimed water	✓
Landscape	Current code	Current code	
Trees	Current code including Heritage Tree ordinance	Located significant stands of trees on the property to save. Otherwise current code including Heritage Tree ordinance.	✓
Dark Sky Initiative	Full cut-off or shielded	Full cut-off or shielded	
Green Building	2-Star Certified	2-Star Certified	
Landscape Irrigation	Potable water	100% reclaimed water	✓
Carbon Impact	Not regulated	Impact Score = 8	✓

Recommended with the following conditions:

1. 858.22 (40%) acres of public open space and parkland, which includes approximately three miles of Colorado river frontage shall be provided.
2. Open space areas shall be restored with appropriate native vegetation outlined in the PUD.
3. Parks and open space areas shall utilize reclaimed water for irrigation.
4. 65% of stormwater shall be treated by dispersed green stormwater infrastructure which includes bio-filtration, rain gardens, and vegetated filter strips.
5. 77 acres of off-site drainage area shall be treated.
6. The project shall provide approximately 50 million cubic feet of additional storage volume for the watershed through a series of on-site retention ponds. Approximately 100 million cubic feet of additional storage volume shall be provided beyond the minimum required for on and off-site flows through three (3) on-site regional retention ponds for the Elm Creek watershed. The proposed 450-acre retention ponds will remove approximately 238 acres of neighboring property and 43 acres of Harold Green Road ROW from the floodplain. These calculations are based on the Atlas 14 flood model for the adjusted 100-year floodplain.
7. Shall provide 29 acres of additional critical water quality zone.
8. Shall preserve 12.91 acres of wetland CEFs, 12.74 acres of wetland CEF shall be enhanced and 9.97 acres of wetland CEF shall be mitigated at 150% acre-for-acre and given the 150-foot buffer required by code.
9. Impervious cover shall be capped at 65% gross site area.
10. Shall preserve a significant stand of trees that have been identified on-site and shall meet current code for tree removal and mitigation.
11. Shall provide 6 miles of public trails throughout the development.
12. Shall meet a Carbon Impact score of 8.



Carbon Impact Statement

Project: Austin Green

Scoring Guide:

1-4: Business as usual

5-8: Some positive actions

9-12: Demonstrated leadership



	Response: Y=1, N=0	Documentation: Y/N
<u>Transportation</u>		
T1: Public Transit Connectivity	<input type="text" value="0"/>	<input type="text" value="N"/>
T2: Bicycle Infrastructure	<input type="text" value="1"/>	<input type="text" value="N"/>
T3: Walkability	<input type="text" value="1"/>	<input type="text" value="N"/>
T4: Utilize TDM Strategies	<input type="text" value="1"/>	<input type="text" value="N"/>
T5: Electric Vehicle Charging	<input type="text" value="1"/>	<input type="text" value="N"/>
T6: Maximize Parking Reductions	<input type="text" value="1"/>	<input type="text" value="N"/>
<u>Water + Energy</u>		
WE1: Onsite Renewable Energy	<input type="text" value="0"/>	<input type="text" value="N"/>
WE2: Reclaimed Water	<input type="text" value="1"/>	<input type="text" value="N"/>
<u>Land Use</u>		
LU1: Imagine Austin Activity Center or Corridor	<input type="text" value="1"/>	<input type="text" value="Y"/>
LU2: Floor-to-Area Ratio	<input type="text" value="1"/>	<input type="text" value="N"/>
<u>Food</u>		
F1: Access to Food	<input type="text" value="0"/>	<input type="text" value="N"/>
<u>Materials</u>		
M1: Adaptive Reuse	<input type="text" value="0"/>	<input type="text" value="N"/>
<u>Total Score: 8</u>		

The Carbon Impact Statement calculation is a good indicator of how your individual buildings will perform in the Site Category of your Austin Energy Green Building rating.

This is for a PUD that will govern the transition of a 2,126.25-acre site from sand and gravel mining to a Major Town Center including allowable land uses such as a variety of compact housing types and commercial developments, connected street and trail improvements, accessible park and open space and other key community benefits.

[Attachment C](#)

T1. Is any functional entry of the project within 1/4 mile walking distance of existing or planned bus stop(s) serving at least two bus routes, or within 1/2 mile walking distance of existing or planned bus rapid transit stop(s), or rail station(s)?

No. The project is outside of current service area. Conversations are in progress to coordinate future needs with CapMetro and a dedicated site for park and ride will be a part of the project.

T2. Is there safe connectivity from the project site to an "all ages and abilities bicycle facility" as listed in the Austin Bicycle Master Plan?

Yes. The project is planning to connect an internal trail to FM 969.

T3. Is the property location "very walkable" with a minimum Walk Score of 70 (found at walkscore.com), or will the project include at least five new distinct basic services (such as a bank, restaurant, fitness center, retail store, daycare, or supermarket)?

Yes. The project envisions having a town center and village center, both with a mixture of residential and non-residential uses. We are also requiring all residential units be within a quarter mile or less walking distance from a public amenity, park or trail.

T4. Does the project utilize two or more of the following Transportation Demand Management strategies: unbundling parking costs from cost of housing/office space, providing shower facilities, providing secured and covered bicycle storage, and/or providing 2+ car sharing parking spaces for City-approved car share programs?

Yes.

T5. Will the project include at least one DC Fast Charging electric vehicle charging station?

Yes.

T6. Does the project utilize existing parking reductions in code to provide 20% less than the minimum number of parking spaces required under the current land development code (or 60% less than the code's base ratios if there is no minimum parking capacity requirement)?

Yes.

WE1. Will the project include on-site renewable energy generation to offset at least 1% of building electricity consumption?

Unknown at this time.

WE2. Will the project include one or more of the following reclaimed water systems: large scale cisterns, onsite grey or blackwater treatment, and reuse or utilization of Austin Water Utility's auxiliary water system to eliminate the use of potable water on landscape/irrigation?

Yes. the project will utilize/extend the City of Austin reclaimed water (purple pipe) system to reduce potable water use for landscaping areas.

LU1. Is the proposed project site located within one of the centers or corridors as defined in the Imagine Austin Comprehensive Plan Growth Concept Map?

Yes. This project is located within one of the identified Town Centers in the Imagine Austin Comp Plan.

LU2. If located in an Imagine Austin activity center or corridor, will the proposed project use at least 90% of its entitled amount of floor-to-area ratio?

Yes.

F1. Will the project include a full service grocery store onsite, or is one located within 1 mile of the project, or will the project integrate opportunities for agriculture to the scale as defined by Austin Energy Green Building?

Full service grocery stores are a permitted use within the project. The final site plan and land uses have not been determined at this time.

M1. Will the project reuse or deconstruct existing buildings on the project site?

No.

PUBLIC HEARING INFORMATION

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During its public hearing, the City Council may grant or deny a zoning request, or rezone the land to a less intensive zoning than requested but in no case will it grant a more intensive zoning.

However, in order to allow for mixed use development, the Council may add the MIXED USE (MU) COMBINING DISTRICT to certain commercial districts. The MU Combining District simply allows residential uses in addition to those uses already allowed in the seven commercial zoning districts. As a result, the MU Combining District allows the combination of office, retail, commercial, and residential uses within a single development.

For additional information on the City of Austin's land development process, visit our website:
www.austintexas.gov/planning.

Written comments must be submitted to the board or commission (or the contact person listed on the notice) before or at a public hearing. Your comments should include the board or commission's name, the scheduled date of the public hearing, and the Case Number and the contact person listed on the notice.

Case Number: C814-2018-0154

Contact: Wendy Rhoades, 512-974-7719

Public Hearing: June 11, 2019, Planning Commission

Christa Ortiz Carroll

Your Name (please print)

2508 ELARA DR. AUSTIN TX 78725

Your address(es) affected by this application

Christa Ortiz Carroll

Signature

☐ I am in favor
☒ I object

6-6-19

Date

Daytime Telephone: *(512) 961-2784*

Comments: *This appears to be a massive project but the major concern here is the extensive transportation and traffic congestion that already occurs on this under developed access around this project area. I am for development but the congested heavy farm roads take a beating w/ heavy commercial transportation vehicles and heavy traffic flow during the daytime hours usually from 5-AM to 10PM.*

If you use this form to comment, it may be returned to:

City of Austin

Planning & Zoning Department

Wendy Rhoades

P. O. Box 1088

Austin, TX 78767-8810

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Case Number: C814-2018-0154

Contact: Wendy Rhoades, 512-974-7719

Public Hearing: November 26, 2019, Planning Commission

SUE L. FISCHER

Your Name (please print)

☐ I am in favor
☒ I object

1300 Watermelon Way

Your address(es) affected by this application

Sue L. Fischer

Signature

11/18/19
 Date

Daytime Telephone: 512-608-8175

Comments: Traffic is unbearable NOW.
With increased traffic on 973 and no
other way into our community,
increased problems for school buses,
emergency vehicles and police will
be impossible // increase strain on
water supply will be dangerous to
our subdivision.

If you use this form to comment, it may be returned to:

City of Austin
 Planning & Zoning Department
Wendy Rhoades
 P. O. Box 1088
 Austin, TX 78767-8810

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Case Number: C814-2018-0154

Contact: Wendy Rhoades, 512-974-7719

Public Hearing: November 26, 2019, Planning Commission

Christa Ortiz Camoll
Your Name (please print)

2508 Elara Dr.
Your address(es) affected by this application

Christa Ortiz
Signature

☐ I am in favor
☒ I object

Daytime Telephone: *(512) 9101-2704*

11-21-19
Date

Comments: *I believe city or county council needs to prepare better access roads & lights before plan is placed into action. There is way too much traffic going down the roads as they are. The toll road is beginning to get congested.*

If you use this form to comment, it may be returned to:

City of Austin
Planning & Zoning Department
Wendy Rhoades
P. O. Box 1088
Austin, TX 78767-8810

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Case Number: C814-2018-0154

Contact: Wendy Rhoades, 512-974-7719

**Public Hearings: January 28, 2020, Planning Commission
February 20, 2020, City Council**

Clarisa Ortiz Canoll

Your Name (please print)

2508 ELARA DR

Your address(es) affected by this application

Clarisa Ortiz Canoll

Signature

☐ I am in favor
☒ I object

1-23-20

Date

Daytime Telephone:

(512) 961-2784

Comments:

Road restructure or additional lanes for traffic must be considered prior to the expansion. Traffic is already an issue. Water use and utilities have to be restructured as well. Propane tanks are in use underground. Utilities will have to be considered. Noise pollution has a problem & law enforcement is another concern

If you use this form to comment, it may be returned to:

City of Austin

Planning & Zoning Department

Wendy Rhoades

P. O. Box 1088

Austin, TX 78767-8810