

Project #22-066 Rivergate Subdivision Located at 1900 West 600 South

REPORT SUMMARY	
Project Name:	Rivergate Subdivision
Proponent/Owner:	Ben Steele / Rivergate LLC
Project Address:	Approximately 1900 West 600 South
Request:	109 Lot Subdivision
Current Zoning:	NR-6
Date of Hearing:	Dec 15 th 2022
Type of Action:	Quasi-Judicial
Submitted By:	Russ Holley, Senior Planner
-	-

RECOMMENDATION

Staff recommends that the Planning Commission **approve** a Subdivision Permit for project PC 22-066 Rivergate Subdivision, located on approximately 30.54 acres at approximately 1900 West 600 South; TIN #02-076-0002; -0008.

Land use adjoining the subject property

North:	Outside of City: Vacant	East:	NR-6 Single Family Homes
South:	NR-6 Single Family Homes	West:	Outside of City: Vacant

Request

The proponent is requesting a single-family subdivision for 109 building lots, a parcel "A" (appears to be wetland area) and remainder storm-water retention ponds and open spaces. The property is currently vacant and relatively flat with some low-lying area near the west border. Historically, the property has been used for agricultural purposes. 1900 West and 600 South provide access but are not fully developed streets (cross sections).



Figure 1 shows the proposed preliminary plat

General Plan

The Future Land Use Plan (FLUP) adopted in 2008 identifies this property as Detached Residential (DR) and explains that designation as being areas for detached single-family homes developed at a density range of 4-6 units per acre of land. The recently adopted Woodruff Neighborhood Plan also indicates this project area as single-family residential. This area was recently (within the last 12 months) annexed into Logan City.

Land Development Code (LDC) - Zoning

The current zoning designation is Traditional Neighborhood Residential (NR-6), which is described as being detached single-family zoning with a maximum density of six (6) homes per acre. Minimum building lot sizes are 6,000 SF with minimum 50-foot lot widths. At 30.54 acres and a proposed 109-lot subdivision, density would equal 3.5 homes per acre. As submitted the subdivision complies with NR-6 density.

Subdivision

The LDC 17.40 requires Subdivision Permits to be issued in accordance to zoning district standards for orderly development patterns. Approvals are based on conformance to lot size, lot width, access and physically suitable for development. The proposed 109-lot subdivision complies with lot sizes and range from 6,000 SF to 13,440 SF. Lot width is shown at or above the 50-foot minimum. As submitted, the subdivision complies with minimum lot sizes and widths.

Street Grid Connectivity & Site Layout

The LDC 17.30.190 requires projects serving twenty (20) or more dwelling units have at least three (3) street connections or stubs for future connections unless adjustments are warranted as per LDC 17.30.170.D. The LDC street connectivity requirement ensures equitable traffic distribution, efficient utility/infrastructure networks, better walkability and the continuation of Logan City's historic grid/block patterns. This proposal includes 4 total points of connectivity. The two southern access points align across 600 South. The west access connects to 1900 West and the north access is shown as a street stub to future development areas. No connections or future stubs are shown connecting to the east. A total of four (4) street connections are made with this proposal as submitted meeting the minimum connectivity requirements in the LDC.



Figure 2 shows the proposed subdivision layout in context with the surroundings.

Street Width

The Logan City Engineering Standards and Specifications contain the adopted street crosssection designs for all areas and all types of development within the city. For standard neighborhood residential developments, a "Local Residential Street" with a 60-foot cross section containing vehicle travel lanes, on-street parking, landscaping (park strip) and sidewalks are required. The proposed 109-lot subdivision shows a 60-foot cross section throughout the interior areas of the project site with 66-foot cross sections for the perimeter streets. The expansion of 600 South street, as conditioned below by the City Engineer, will need to be accounted for in the layout of this subdivision.

Setbacks

The Land Development Code (LDC) requirements for setbacks in the NR-6 zone are as follows (as measured from property lines):

(as measured nom property	
Front:	25'
Corner	20'
Side:	8'
Rear:	10'

Setbacks will be reviewed and approved with compliance to LDC standards by city Staff when building permit applications are submitted for new single-family homes.

Lot Coverage

The LDC 17.07.060 limits lot coverage at a maximum of 60% (building(s) footprint) in the NR-6 zone. Lot coverage will be reviewed and approved with compliance to LDC standards when building permit applications are submitted for new single-family homes.

Parking Stall Requirements

The LDC 17.31.040 requires two (2) parking stalls per every dwelling unit. The parking stalls must be located outside of building setbacks in either a garage, carport or paved parking lot. Driveway cuts are limited to 24-foot max width at the curb to preserve street character and limit ingress/egress onto public streets. Parking and driveways will be reviewed and approved with compliance to LDC standards when building permit applications are submitted for new single-family homes.

Rear Facing Homes/Fencing

The LDC 17.30.100 regulates fencing and walls in residential developments. When subdivisions are adjacent to perimeter streets, collector or arterial streets, developers with often choose to align lots with rear yards abutting the perimeter streets. For this submittal, lots 101-404 (26 lots) abut 600 South with rear yards. In these configurations, a rear yard fence that is 4 feet tall or less may be placed on the property line, but a 6-foot-tall fence must be setback 10 feet from the rear property line. Corner lots are treated differently and allow 6-foot-tall fencing without setbacks in areas of the corner yard behind the home's front façade.

LDC 17.09.020 addresses these situations and requires additional landscaping buffers along the back sides of these homes. Depending on whether the street is a local, collector or arterial, the landscape buffer ranges from 10-50 feet wide. For consistency, these areas will have better long-term appearance and maintenance if they are designed as a whole, commonly owned, and maintained through an HOA. As conditioned with adherence to 17.09.020 for the rear facing lots, the project meets the requirements in the LDC.

Open Space

The LDC does not require open space in the NR-6 zoning district. With generous setbacks and limited lot coverages, NR-6 projects contain larger areas between homes for private landscaping and vegetation. As subdivisions are approved and building permit impact fees

collected, the Logan City Parks and Recreation Department acquires and develops lands for nearby neighborhood parks. If subdivisions choose to develop common open space, they will need to follow landscaping and stormwater buffering regulations. The pending critical lands ordinance will require a 50-foot setback from any delineated wetland boundary. With phase one being outside of the possible wetland overlay zone, staff will assess wetland issues and code compliance in phases 2-4.

Staff Summary

The proposed subdivision complies with the LDC standards and limitations as proposed. Unless delineated as jurisdictional wetlands, the existing low-lying area on-site can be amended. Wetland will likely only be an issue in phases 2-4. The city department comment regarding the widening of 600 South has the potential to be very impactful to the subdivision layout and the landscape buffer along the south border. The total number of street stubs to adjacent areas need to be considered as one could make the argument that a stub to the east and additional one to the north would allow for better walkability and connectivity to the future surrounding development areas.

AGENCY AND CITY DEPARTMENT COMMENTS

Comments were solicited from the following departments or agencies:

Environmental	Water
• Fire	Engineering

PUBLIC COMMENTS

Notices were mailed to property owners within 300 feet of the subject property. As of the time of this report, staff has not received any written comments.

PUBLIC NOTIFICATION

Legal notices were published in the Herald Journal on 12/03/22, posted on the City's website and the Utah Public Meeting website on 12/05/22 and mailed out to adjacent property owners within 300' on 11/28/22.

RECOMMENDED CONDITIONS OF APPROVAL

This project is subject to the proponent or property owner agreeing to comply with the following conditions as written, or as may be amended by the Planning Commission.

- 1. All standard conditions of approval will be recorded with the Design Review and are available in the Community Development Department.
- 2. This subdivision permits authorizes 109 lots in four phases.
- 3. The wetland delineation must be completed and approved by the Army Corp of Engineers prior to phases 2-4. If the delineation result in significant changes to phases 2-4, the project must return to the planning commission for future reviews and approvals.
- 4. The stormwater common areas and wetland areas shall be listed as non-buildable on the final plat.
- 5. The planning commission will review and approved the street connections and street stubs to future areas.
- 6. Street design shall conform to Logan City adopted standards and specifications. All streets adjacent to or within the development shall be improved to current city standards and specifications.
- 7. Building setbacks, lot coverages, parking and driveway specifications shall be reviewed and approved on an individual basis and comply with the NR-6 requirements.
- 8. A performance landscaping plan, prepared in accordance with §17.32 of the LDC, shall be submitted for approval to the Community Development Department prior to the issuance of the building permit. The plan shall include the following:

- a) Street trees along all streets provided every thirty (30) feet on center unless otherwise noted by the City Forrester.
- b) Storm water retention areas that are adjacent to public streets shall be landscaped and designed so the trees and shrubbery screen pond areas from view at the street.
- c) The landscape buffer areas adjacent to 600 South shall comply with tree and shrub specifications in 17.09.020.
- 9. Exterior lighting, including gas canopy lighting, shall be concealed source, down-cast and shall not illuminate or cast light onto adjacent properties.
- 10. No signs are approved with this Design Review Permit. All signage shall be approved and permitted by staff in accordance with the Land Development Code.
- 11. No fences are approved with this Design Review Permit. All fences shall be approved and permitted by staff in accordance with the Land Development Code.
- 12. All critical lands, as defined in the Logan Land Development Code, shall be identified, and listed on the final plat.
- 13. HOA and CC&R's shall be submitted to the City for review and compliance with applicable maintenance and landscaping requirements.
- 14. Prior to issuance of a Building Permit, the Director of Community Development shall receive a written memorandum from each of the following departments or agencies indicating that their requirements have been satisfied:
 - a. Environmental—contact 716-9760
 - 1. Residential cart/cans will be provided. Place all carts at or above the minimum separation distance and clear of all overhead obstacles.
 - b. Water-contact 716-9622
 - All landscape irrigation system's fed from Logan City water must have a high hazard rated backflow assembly installed and tested. All backflow assemblies must be tested within 10 days of turning water into them and annually thereafter.
 All points of use of water must comply with the 2018 IPC and State of Utah Amendments and the Utah Admin Code 309-305 during and after construction.
 - 2. Project shall comply with all current plumbing codes, Utah State Amendments and the Utah Division of Drinking Water rules and regulations including, but not limited to, those pertaining to backflow protection and cross connection prevention.
 - c. Engineering contact 716-9160
 - 1. Provide water shares or in-lieu fee for indoor and outdoor increased demands to the City system. This requirement shall be per City Code and Utah Administrative Rule R509-519-7
 - Show all existing easements on the preliminary plat and reference the recording information for each on the plat, where non-existent or insufficient, provide a 10' Public Utility Easement along all frontages and perimeter property lines, and provide a 5' Public Utility Easement along each side of all interior property lines.
 - 3. Provide all necessary cross access easements/agreements for private road and private utilities across all properties.
 - 4. CC&R's shall include language that addresses the requirement of the HOA to maintain private water lines, private sewer lines, common access and parking areas, and the Storm Water management system, basins, swales, and related infrastructure outside of a dedicated street.
 - 5. Provide Development Agreement and financial surety of at least 110% of the cost to construct all infrastructure & storm water improvements. Financial assurances shall not expire for a minimum of 2 years from date of City acceptance.
 - 6. Provide a Geotechnical Report that includes but is not limited to: 1) California Bearing Ratio (CBR) of subgrade of pavement section, 2) Historical high ground water elevation, and 3) Percolation rate of soils at bottom of all storm water retention ponds.

7. There are large areas of the project that appear to be wetland and / or riparian in nature. Developer shall prepare appropriate wetland / riparian area delineation documents sufficient to determine the extent of these areas as defined by City, State, and Federal codes and standards and shall provide sufficient mitigations as required by these codes and standards.

UTILITIES

- 8. Water lines in 600 S and 1900 W shall be upsized or installed as may be required to satisfy City and State pressure and looping requirements as determined by a water model completed by Logan City.
- All utilities outside of the public right-of-way way shall be private lines and shall be owned, maintained, repaired/replaced by Homeowners Association. All infrastructure shall be installed, maintained, and repaired/replaced in accordance with Logan City Standards.
- 10. Provide City with private Water Utility agreement for all private water and sewer lines (including fire lines) not located withing a Public Right of Way. The agreement shall be recorded with the County Recorder.
- 11. All lots shall have separate water service and sewer service connections to water distribution and sewer collection systems.
- 12. Coordinate with the Fire Marshall to ensure sufficient fire hydrants are located in and around the development to meet fire code requirements.
- 13. All existing utility service lines to development that are not used with the new development shall be capped at the City main line.
- 14. New local street water lines and sewer lines shall be a minimum of 8 inches in diameter unless modeling indicates larger lines are necessary.

STORMWATER / IRRIGATION

- 15. Provide storm water detention/retention per Logan City Design standards. This includes the retention of adjacent half street offsite where an existing management system is not established and onsite stormwater. Retention of the 90% storm event is required and shall be provided through the use of Low Impact design methods.
- 16. Provide a stormwater maintenance agreement for City Review, approval and recordation at County Recorder's Office.
- 17. Area is greater than 1 acre so compliance with State Storm Water Permit is required. Development shall comply with Logan City design standards for storm water detention/retention. Development shall also provide a sediment and erosion control plan for all construction activities.
- 18. Maintain the capacity, size, and location of all existing irrigation system infrastructure along and within the project; or where irrigation infrastructure is required to be relocated or changed, improve the infrastructure to the irrigation company standards. The City will require all affected Irrigation companies to provide a signature approval on all final construction plans and final plats.
- 19. Sufficient information has not been provided to confirm the size requirements of the storm water detention/retention basins. Additional common / open space area may be required to comply with the City's storm water management standards.
- 20. The minimum diameter of stormdrain piping in a City right of way shall be 15 inches unless a larger size is required to handle irrigation plus storm water design flows. STREETS
- 21. The City's gridded street system is identified to extend on every even block alignment. The street south of the 1500 W street identified on this plat is 1580 W. Adjust street names to coincide with streets to the south. Revise the through street (1500 W) to align closer to the 1550 W alignment to preserve the 1600 W gridded street alignment.

- 22. 600 West is identified as a major arterial on the City's transportation master plan and as such requires a 102' right of way. Dedicate sufficient property to achieve a total 83' of right of way. Preserve an additional 13' of right of way for future roadway improvements and acquisition. Prepare construction plans to build a total pavement width of 48' (5, 12, 14, 12, 5) including curb, gutter, sidewalk, parkstrip.
- 23. 1900 W is designated as a gridded street and as such shall be designed and constructed to Logan City's gridded street standards.
- 24. 575 S shall remain a minimum 125' from the 600 S / 1900 W intersection as measured from nearest edges.
- 25. Pavement cross-sections of all roads shall meet the minimum standards for a minor arterial, collector, and local roads per Logan City Design Standards.
- 26. All development accesses shall be in accordance with Logan Design Standards.
- 27. Coordinate with Community Development and Fire Marshall to ensure that the number of accesses to the site comply with City standards. Modify current site plan as required.
- 28. Where the existing half street or portion thereof is in poor condition in regards to cracking, developer shall reconstruct the pavement cross section out to an area of good condition asphalt. At a minimum 3' of existing asphalt shall be removed and replaced. Provide a trip generation and distribution memo using a land use representative of the types of housing proposed.
- d. Fire contact 716-9515
 - 1. Fire hydrants shall be installed within 600 ft of all buildable areas, including to the back of lots, and measured along drivable routes. Include plan indicating distance to fire hydrants in construction plans.
- e. Forestry contact 716-9749
 - 1. Park strip trees shall be provided by developer for gold card sign off. *
 - 2. Species selection must be approved by City Forester prior to planting*
 - 3. Trees shall be planted at correct depth by International Society of Arboriculture standards. Meaning root flare shall be at final grade level.
 - 4. Tree stakes shall be loose and only provided when necessary.
 - 5. Only low growing variety of trees will be permitted under power lines.
 - 6. 30' tree setback is required on park strip trees located near corner intersections for sight distance. Rex.davis@loganutah.org

RECOMMENDED FINDINGS FOR APPROVAL FOR THE SUBDVISION PERMIT

The Planning Commission bases its decisions on the following findings supported in the administrative record for this project:

- 1. The proposed project is compatible with surrounding land uses and will not interfere with the use and enjoyment of adjacent properties because of the conditioned building design, site layout, materials, landscaping, building orientation, heights and setbacks.
- 2. The Subdivision Permit conforms to the requirements of Title 17 of the Logan Municipal Code.
- 3. The proposed project provides off-street parking in compliance with the LDC.
- 4. The project meets the goals and objectives of the NR-6 designation within the Logan General Plan by providing high quality projects designed in way for easy circulation of both pedestrian and vehicles.
- 5. The proposed project complies with maximum height, density and building design standards and is in conformance with Title 17.
- 6. The project met the minimum public noticing requirements of the Land Development Code and the Municipal Code.
- 7. The surrounding streets provide access, utilities and are adequate in size and design to sufficiently handle all traffic modes and infrastructure related to the land use.

This staff report is an analysis of the application based on adopted city documents, standard city development practices, and available information. The report is to be used to review and consider the merits of the application prior to and during the course of the Planning Commission meeting. Additional information may be revealed by participants at the Planning Commission meeting which may modify the staff report and become the Certificate of Decision. The Director of Community Development reserves the right to supplement the material in the report with additional information at the Planning Commission meeting.



APPLICATION FOR PROJECT REVIEW

For Staff Only				
Planning Commission	Land Use	Appeal Boa	ard	Administrative Review
	Zone/Neighborhood	Scheduled Me	eeting Date	Application Number
NOV. 3 N	R-Ce Woodruff	DEC. I	5	PC 22-0(de
	Type of Application (Ch	eck all that app	ply):	
Design Review Cond	litional Use 🛛 🛛 Su	odivision	Admin	istrative Design Review
Code Amendment Appe	al 🗆 Zor	ne Change	□ Other	and a second second
PROJECT NAME				
Rivergate				
PROJECT ADDRESS				COUNTY PLAT TAX ID #
1900 West & Mendon Road (6th South)				02-076-0002, 02-076-0008
AUTHORIZED PROJECT REPRESENTATIVE FOR	OWNER			PHONE #
Ben Steele, Project Manager				208-559-4016
MAILING ADDRESS	CITY		STATE	ZIP
50 East 2500 North, Suite 101, North Lo	ogan, Utah 84341			
EMAIL ADDRESS				
bsteele@visionaryhomes.com				
PROPERTY OWNER OF RECORD				PHONE #
Rivergate LLC				208-559-4016
MAILING ADDRESS	CITY		STATE	ZIP
50 East 2500 North, Suite 101, North Lo	gan, Utah 84341			
EMAIL ADDRESS				
bsteele@visionaryhomes.com				
DESCRIBE THE PROPOSED PROJECT AS IT SHOU (Include as much detail as possible - attach a sepa	JLD BE NOTICED AND PRES	ENTED		Total Lot Size (acres)
(See enclosed separate sheet for descri	ption)			30.54 acres
on in the manufacture best in and a substantial substantial free interpretedent				Size of Proposed New Building square feet)
			1	Number of Proposed New Units/Lots
			1	109 Lots
I certify that the information contained in this application supporting plans are correct and accurate. I also cert am authorized to sign all further legal documents and on behalf of the property owner.	ify that I	lature of Property	Owner's Autho	rized Project Representative
I certify that I am the property owner on record of the s property and that I consent to the submittal of this proj I understand that all further legal documents and perm be sent to my authorized agent listed above.	ect.	ature of Property	Owner	

APPLICATION MUST BE ACCURATE AND COMPLETE NO SITE ACTIVITY MAY OCCUR UNTIL AFTER APPROPRIATE COMMITTEE APPROVAL -

Rivergate Preliminary Plat Application November 3, 2022

Visionary Homes believes that everyone deserves the opportunity to be a homebuyer and own their own home. After all a home is more than land, concrete, sticks and bricks – its family security, where lifelong memories are made with loved-ones. Our expertise is creating and building an environment where these moments can happen.

Housing is in demand statewide - the Cache Valley being no exception - especially housing that is built with the first home buyer in mind. The purpose of this preliminary plat application is to secure approvals that enable us to provide housing to this much needed clientele.

We also desire to continue building a relationship of trust with city staff and officials together with the surrounding community and public at large in working together to develop this property.







PROJECT CONTACTS:

1. DEVELOPER:

VISIONARY HOMES/RIVERGATE, LLC. 50 EAST 2500 NORTH NORTH LOGAN, UTAH 84341

CIVIL ENGINEER/SURVEYOR:

CIVIL SOLUTIONS GROUP, INC MICHAEL TAYLOR, PE CURTIS BROWN, PLS

498 WEST 100 SOUTH PROVIDENCE, UTAH 84322 435-213-3762

LEGAL DESCRIPTION

THE WEST 1/2 OF LOT 1 AND ALL OF LOT 2, BLOCK 14, LOGAN FARM SURVEY, LOCATED IN THE NE1/4 & SE1/4 OF SECTION 6, TOWNSHIP 11 NORTH, RANGE 1 EAST, S.L.B.& M., LOGAN, UTAH, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT A REBAR & CAP FOUND AT THE NORTHWEST CORNER OF LOT 2, BLOCK 14, LOGAN FARM SURVEY LOCATED N0°07'05"W ALONG THE SECTION LINE 438.66 FEET AND EAST 3,247.06 FEET FROM THE WEST 1/4 CORNER OF SECTION 6, T11N, R1E, S.L.B.& M., SAID POINT IS ALSO DESCRIBED AS BEING N42°42'58"W 2,266.68 FEET ALONG THE MONUMENT LINE BETWEEN LC-303 & LC-315 AND S47°17'02"W 1,342.82 FEET FROM LOGAN CITY GIS MONUMENT LC-303; THENCE S89°23'58"E ALONG THE NORTH LINE OF SAID LOTS AND ALONG A FENCE LINE 2,010.87 FEET TO A POINT THAT IS WEST 4.00 FEET FROM THE NORTHEAST CORNER OF THE WEST 1/2 OF SAID LOT 1; THENCE S1°43'20"W 4.00 FEET; THENCE S89°23'58"E 4.00 FEET TO THE EASTERLY LINE OF THE WEST 1/2 OF SAID LOT 1; THENCE S1°43'20"W ALONG SAID EASTERLY LINE 663.89 FEET TO THE NORTHERLY RIGHT-OF-WAY LINE OF 600 SOUTH AT THE SOUTH LINE OF SAID BLOCK 14; THENCE N88°57'54"W ALONG THE SOUTH LINE OF SAID BLOCK 2,015.76 FEET TO THE SOUTHWEST CORNER OF LOT 2 OF SAID BLOCK; THENCE N1°49'17"E ALONG THE WEST LINE OF SAID LOT 652.62 FEET TO THE POINT OF BEGINNING.

CONTAINS: 30.54+/- ACRES

PRELIMINARY PLAT FOR **RIVERGATE SUBDIVISION** BLOCK 14 & 15, LOGAN FARM SURVEY

SECTIONS 5 & 6 T11N, R1E, SLB&M

S89° 23' 58"E 2010.87' LOT 114 7,866 SF 0.18 AC LOT 202 6,000 SF 0.14 AC LOT 115 LOT 201 6,000 SF LOT 204 6,000 SF LOT 205 6,000 SF LOT 203 LOT 208 6,000 SF 0.14 AC LOT 206 6,000 SF LOT 207 6,000 SF 0.14 AC LOT 301 6,000 SF LOT 302 LOT 303 LOT 304 LOT 401 6,001 SF 6,000 SF 0.14 AC 6,000 SF 0.14 AC 6,000 SF 6,000 SF 6,000 SF 0.14 AC 500 SOUTH (60-FT ROW) LOT 210 7,132 SF LOT 209 7,230 SF LOT 305 7,198 SF LOT 314 7,328 SF ____ LOT 315 __ LOT 328 6,384 SF 6,384 SF LOT 116 7,930 SF 0.18 AC 0.16 AC 0.17 AC 0.15 AC 0.17 AC 0.15 AC 0.17 AC - --- -L ____ _ __ ____ _____ _ _ _ _ __ _____ $_$ LOT 316 LOT 211 LOT 327 LOT 212 LOT 306 LOT 313 6,000 SF 6,000 SF 6,000 SF 6,000 SF ____ 6,000 SF 6,000 SF 0.14 AC 0.14 AC 0.14 AC LOT 117 7,497 SF 0.14 AC 0.14 AC 0.14 AC _ _ _ ____ _____ ____ 0.17 AC _ __ _ _ _ _ $_ _ _ _$ LOT 317 LOT 214 LOT 326 N N N LOT 213 LOT 307 LOT 312 6,000 SF 6,000 SF 6,000 SF 6,000 SF 6,000 SF 600 (^{60-F} 6,000 SF 0.14 AC 0.14 AC 0.14 AC 0.14 AC 0.14 AC 0.14 AC ____ _____ _ ___ _ _ _ ____ _ _ _ LOT 318 LOT 215 LOT 325 LOT 216 LOT 308 LOT 311 6,000 SF 6,000 S 6 000 SE 6 000 SF 6,000 SI 6,000 SF 0.14 AC 0.14 AC 0.14 AC 0.14 AC 0.14 AC 0.14 AC _ __ __ L____ . ____ _ __ _ __ _ L _ _ _ LOT 119 _____ _ ___ 6,300 SF LOT 324 LOT 218 0.14 AC LOT 217 LOT 319 LOT 309 LOT 310 7,298 SF 7,170 SF 7,193 SF 7,257 SF 7,268 SF 7,292 SF 0.16 AC 0.17 AC 0.17 AC 0.17 AC 0.17 AC 0.17 AC LOT 323 575 SOUTH 6,092 SF (60-FT ROW) 0.14 AC LOT 322 10,047 SF LOT 124 LOT 219 LOT 220 LOT 221 LOT 222 LOT 223 OS 8 LOT 224 0.23 AC LOT 225 LOT 226 6,400 SF 6,400 SF LOT 320 6,400 SF 6,400 SF 6,400 SF 6,400 SF 1,200 SF 6,000 SF 6,000 SF 0.15 AC 6,000 SF LOT 321 0.15 AC 6,300 SF 0.15 AC 0.15 AC 0.15 AC 0.15 AC 0.03 AC 0.14 AC 0.14 AC 0.14 AC 8,193 SF 0.14 AC 0.19 AC 14,269 SF) 33 AC N88° 57' <u>54''W</u> 2015.76 600 SOUTH (MENDON RD) (66-FT ROW) TRAIL CIR. OGAN RIVER TRAILS -LOGAN ÓGAN RIVER TRAILS -SUBDIVISION CITY SUBDIVISION PHASE 1 CORPORATION PHASE 3 SOUTHRIDGE HILL, LLC 1780/1319 **GENERAL NOTES:** SURVEY LEGEND: 1. CURRENT ZONE: NR-6 SUBDIVISION BOUNDARY 2. ALL SETBACKS AND PUES TO CONFORM TO CURRENT CITY STANDARDS. SHEET OUTLINE 3. ALL PROPOSED PUBLIC RIGHT OF WAYS TO BE DEDICATED TO LOGAN CITY. PROPOSED PROPERTY LINE AREA: 8.29+/- ACRES 4. OPEN SPACE PARCELS, "OS 1"-"OS 10" TO BE PRIVATELY OWNED AND MAINTAINED BY THE HOA. SETBACK LINE AREA: 2.64+/- ACRES 5. "PARCEL A" TO BE PRIVATELY OWNED AND MAINTAINED BY EXISTING PROPERTY LINE HOA OR RETAINED AND MAINTAINED BY VISIONARY HOMES/RIVERGATE LLC. EXISTING ROW CENTERLINE

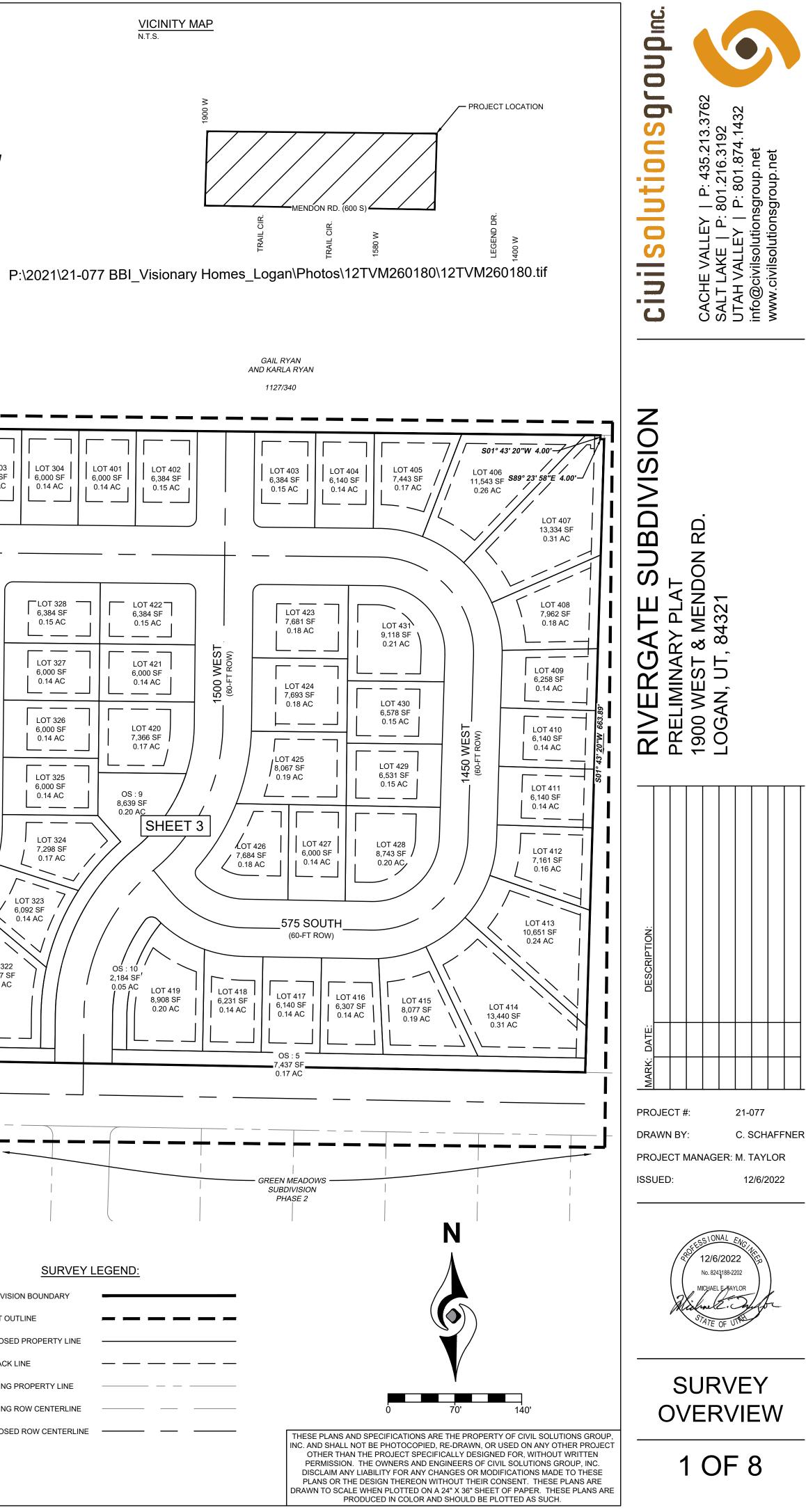
AREA: 3.09+/- ACRES

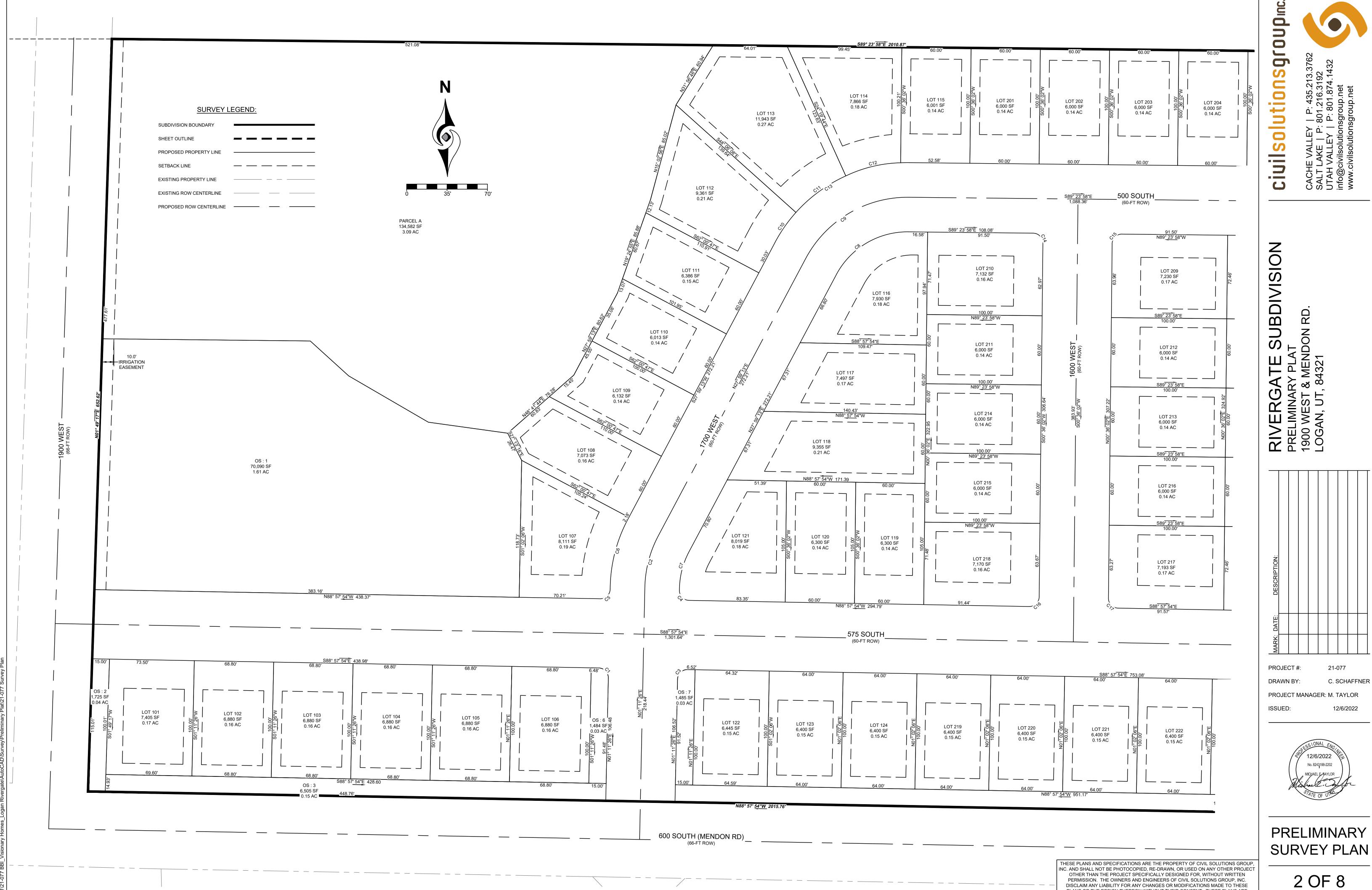
6. THE ENTIRETY OF PARCELS "OS 2"-"OS 5" WILL ALSO BE

SOUTHWEST FIELDS IRRIGATION COMPANY.

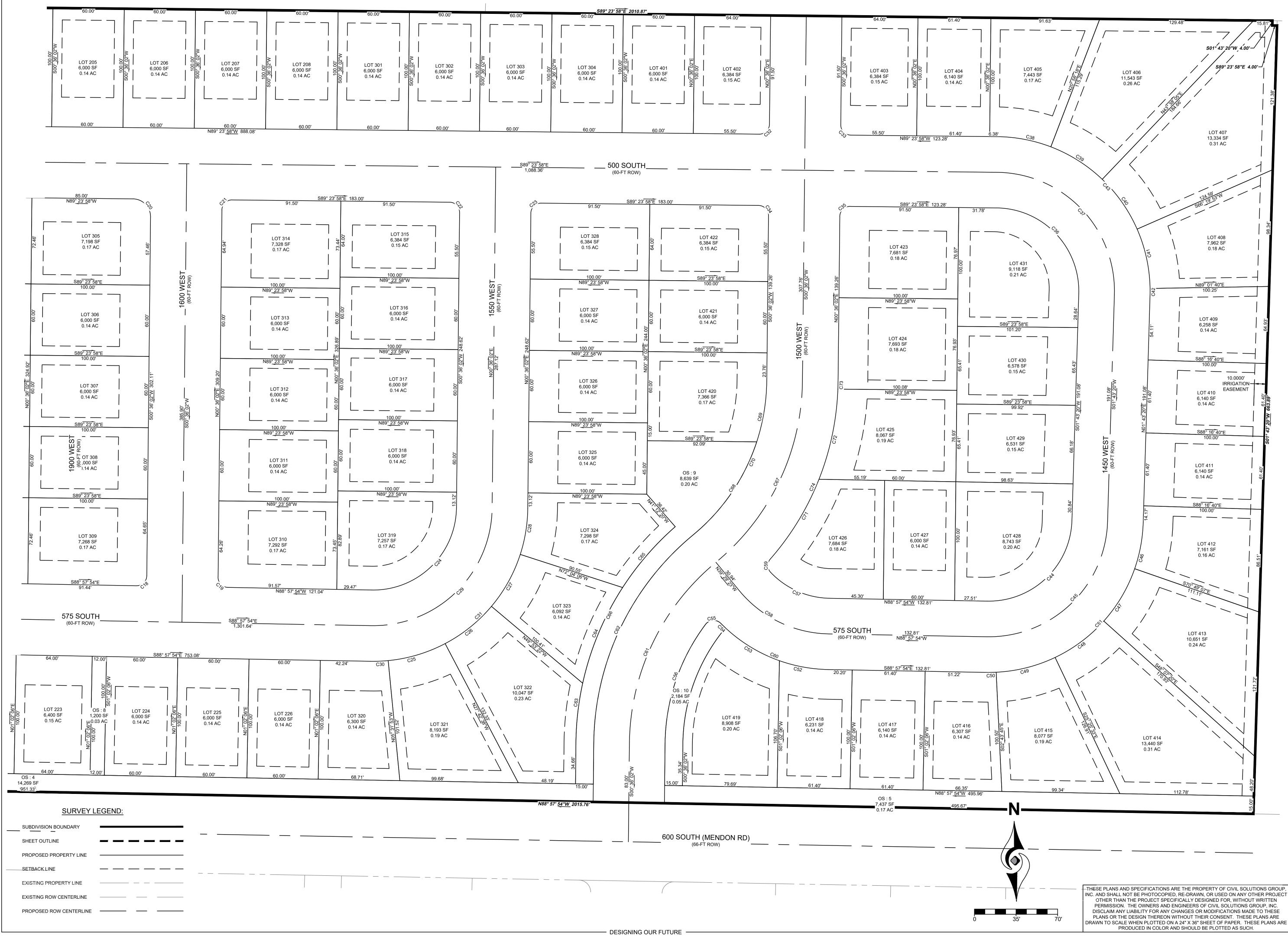
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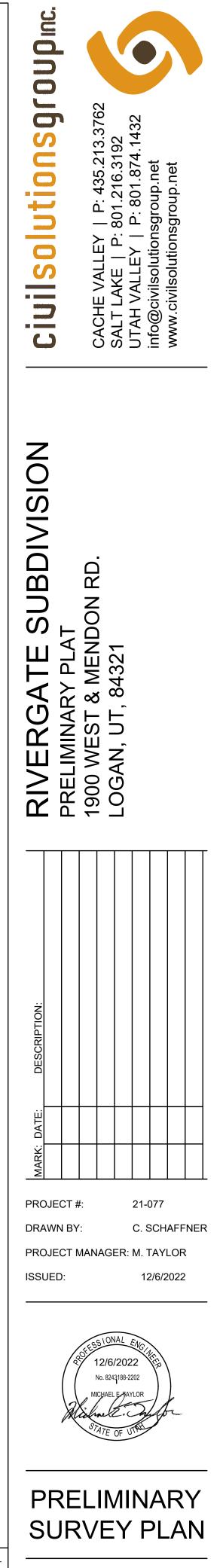
PROPOSED ROW CENTERLINE





PLANS OR THE DESIGN THEREON WITHOUT THEIR CONSENT. THESE PLANS ARE DRAWN TO SCALE WHEN PLOTTED ON A 24" X 36" SHEET OF PAPER. THESE PLANS ARE PRODUCED IN COLOR AND SHOULD BE PLOTTED AS SUCH.



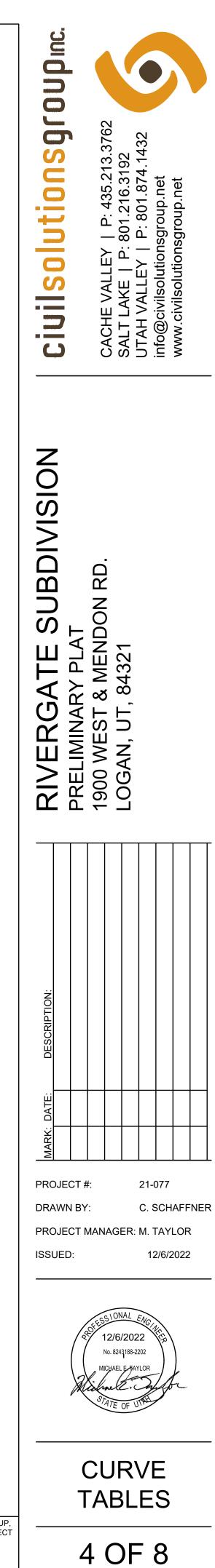


\2021\21-077 BBI_Visionary Homes_Logan Rivergate\AutoCAD\Survey\Preliminary Plat\21-077 Survey Plan

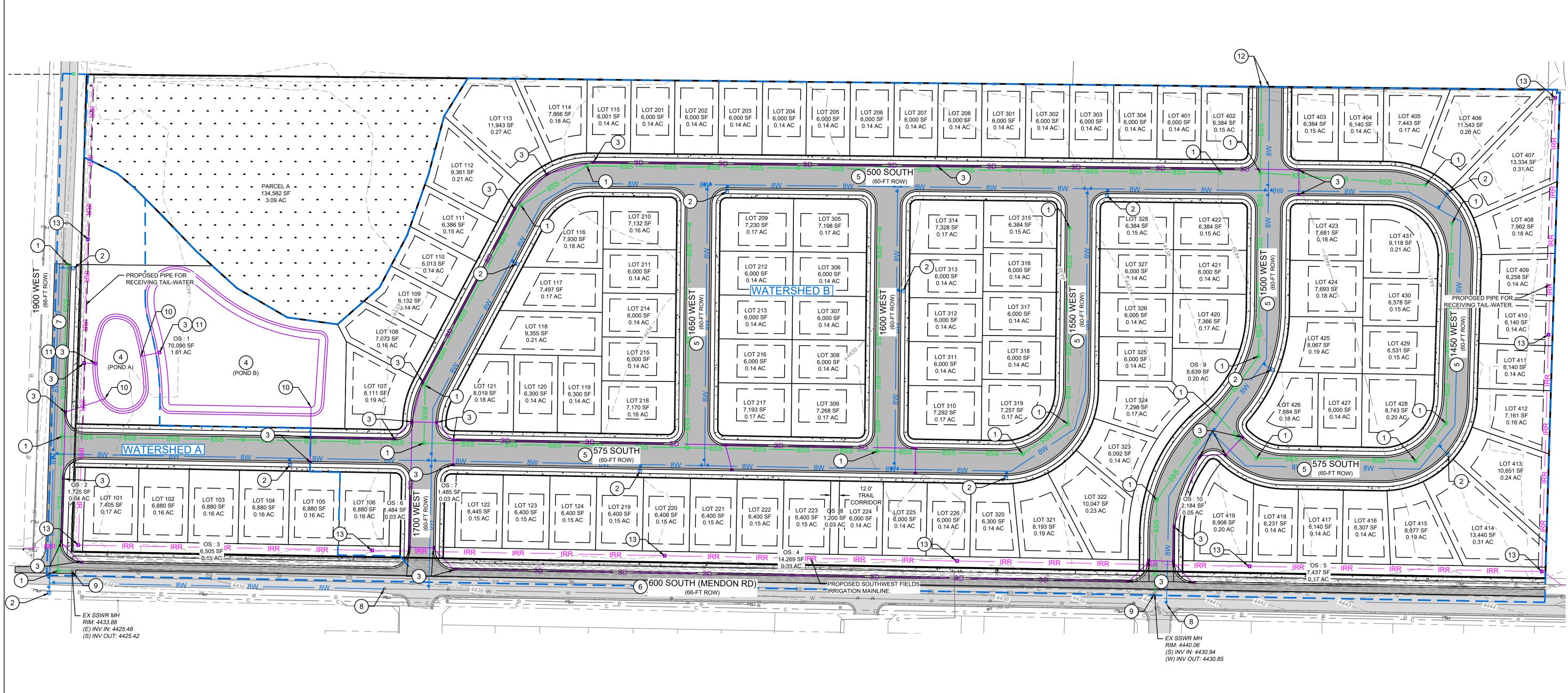
CURVE #	R
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CURVE TABLE						
RADIUS	DELTA	ARC LENGTH	CHORD			
8.50	90°09'20"	13.37	N43°53'14"W 12.04			
100.00	26°47'47"	46.77	N14°35'19"E 46.34			
8.50	89°50'40"	13.33	S46°06'46"W 12.00			
8.50	88°26'53"	13.12	S44°44'28"E 11.86			
8.50	90°41'21"	13.45	N45°41'26"E 12.09			
130.00	27°38'27"	62.72	N14°09'59"E 62.11			
70.00	28°30'14"	34.82	S13°44'06"W 34.47			
70.00	62°36'49"	76.50	S59°17'37"W 72.75			
100.00	62°36'49"	109.28	N59°17'37"E 103.92			
130.00	13°54'40"	31.56	N34°56'32"E 31.49			
130.00	23°46'24"	53.94	N53°47'04"E 53.55			
116.07	24°17'44"	49.22	N76°30'02"E 48.85			
130.00	59°20'34"	134.64	N57°39'30"E 128.71			
8.50	90°00'00"	13.35	N44°23'58"W 12.02			
8.50	90°00'00"	13.35	S45°36'02"W 12.02			
8.50	90°26'04"	13.42	N45°49'04"E 12.07			
8.50	89°33'56"	13.29	S44°10'56"E 11.98			
8.50	90°26'04"	13.42	N45°49'04"E 12.07			
8.50	89°33'56"	13.29	S44°10'56"E 11.98			
15.00	90°00'00"	23.56	N44°23'58"W 21.21			
8.50	90°00'00"	13.35	S45°36'02"W 12.02			
8.50	90°00'00"	13.35	N44°23'58"W 12.02			
8.50	90°00'00"	13.35	S45°36'02"W 12.02			
70.00	90°26'04"	110.49	N45°49'04"E 99.37			
130.00	22°10'44"	50.32	S73°22'45"W 50.01			
130.00	22°10'44"	50.32	S51°12'00"W 50.01			
130.00	22°10'44"	50.32	S29°01'16"W 50.01			
130.00	17°19'52"	39.32	S9°15'58"W 39.17			
100.00	90°26'04"	157.84	N45°49'04"E 141.96			
130.00	6°33'59"	14.90	S87°45'06"W 14.89			
130.00	90°26'04"	205.19	N45°49'04"E 184.54			
8.50	90°00'00"	13.35	N45°36'02"E 12.02			
8.50	90°00'00"	13.35	S44°23'58"E 12.02			
8.50	90°00'00"	13.35	N44°23'58"W 12.02			
8.50	90°00'00"	13.35	S45°36'02"W 12.02			
70.00	91°07'18"	111.33	N43°50'19"W 99.96			
100.00	91°07'18"	159.04	S43°50'19"E 142.80			

CURVE TABLE						
CURVE #	RADIUS	DELTA	ARC LENGTH	CHORD		
C38	130.00	20°20'16"	46.14	S79°13'50"E 45.90		
C39	130.00	22°41'47"	51.50	S57°42'48"E 51.16		
C40	130.00	22°41'47"	51.50	S35°01'01"E 51.16		
C41	130.00	22°41'47"	51.50	S12°19'13"E 51.16		
C42	130.00	2°41'40"	6.11	S0°22'30"W 6.11		
C43	130.00	91°07'18"	206.75	S43°50'19"E 185.64		
C44	70.00	89°18'46"	109.12	N46°22'43"E 98.40		
C45	100.00	89°18'46"	155.88	S46°22'43"W 140.57		
C46	130.00	17°27'33"	39.61	S10°27'06"W 39.46		
C47	130.00	22°41'47"	51.50	S30°31'46"W 51.16		
C48	130.00	22°41'47"	51.50	S53°13'34"W 51.16		
C49	130.00	22°41'47"	51.50	S75°55'21"W 51.16		
C50	130.00	3°45'51"	8.54	S89°09'10"W 8.54		
C51	130.00	89°18'46"	202.64	S46°22'43"W 182.74		
C52	130.00	18°28'44"	41.93	N79°43'32"W 41.75		
C53	130.00	22°56'43"	52.06	N59°00'49"W 51.71		
C54	130.00	2°24'42"	5.47	N45°42'07"W 5.47		
C55	8.50	98°35'32"	14.63	S86°12'28"W 12.89		
C56	170.00	36°18'40"	107.74	S18°45'22"W 105.94		
C57	70.00	45°22'04"	55.43	S66°16'52"E 53.99		
C58	100.00	49°28'31"	86.35	N64°13'39"W 83.69		
C59	8.50	84°46'45"	12.58	S1°12'27"E 11.46		
C60	130.00	44°28'08"	100.90	S66°43'50"E 98.38		
C61	200.00	49°54'35"	174.22	S25°33'19"W 168.76		
C62	230.00	49°54'35"	200.35	S25°33'19"W 194.08		
C63	245.00	9°31'13"	40.71	N5°21'39"E 40.66		
C64	245.00	19°33'03"	83.60	N22°10'01"E 83.20		
C65	245.00	15°52'57"	67.92	N40°51'11"E 67.70		
C66	245.00	48°11'38"	206.08	N24°41'51"E 200.06		
C67	200.00	49°54'35"	174.22	S25°33'19"W 168.76		
C68	170.00	32°22'00"	96.03	S34°19'37"W 94.76		
C69	170.00	17°32'34"	52.05	N9°22'19"E 51.85		
C70	170.00	49°54'35"	148.09	S25°33'19"W 143.45		
C71	230.00	19°38'32"	78.85	S31°21'40"W 78.46		
C72	230.00	19°24'36"	77.92	S11°50'06"W 77.54		
C73	230.00	1°31'46"	6.14	S1°21'55"W 6.14		
C74	230.00	40°34'54"	162.90	N20°53'29"E 159.52		



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GENERAL NOTES:

- 1. CONSTRUCTION TO BE COMPLETED IN PHASES 2. ALL EXISTING GRADE IS A CLASS 1 SLOPE
- 3. THERE ARE NO KNOWN ACTIVE OR ABANDONED WELLS ON OR WITHIN 100' OF THE PROPERTY. 4. THERE ARE NO EXISTING DITCHES, CANALS, NATURAL
- DRAINAGE CHANNELS, OPEN WATERWAYS, OR PROPOSED ALIGNMENTS ON OR WITHIN 100' OF THE TRACT.
- 5. DRIVEWAY LOCATIONS, WIDTHS AND SECTIONS FOR ALL LOTS SHALL CONFORM TO CITY STANDARDS. 6. ALL SEWER LINES WILL BE A MINIMUM 8FT DEEP THROUGHOUT THE PROJECT.

UTILITY GENERAL NOTES:

1. ALL LOTS TO BE SERVICED WITH A 1" Ø CULINARY WATER LATERAL & METER & A 4" Ø SANITARY SEWER LATERAL.

1 SITE SHEET KEY NOTES:

- SEWER MANHOLE FIRE HYDRANT
- STORM WATER STRUCTURE STORM WATER POND
- 66-FT ROW CROSS-SECTION (1/SHEET 7) 600 SOUTH ROW CROSS-SECTION (2/SHEET 7)
- 1900 WEST ROW CROSS-SECTION (3/SHEET 7) CONNECTION TO EXISTING WATER LINE 9. CONNECTION TO EXISTING SEWER MANHOLE
- 10. POND INLET 11. POND OUTLET
- 12. UTILITY STUB FOR FUTURE USE 13. IRRIGATION STRUCTURE

STORMWATER NARRATIVE:

THIS SITE SHALL BE DESIGNED TO DETAIN THE CACHE VALLEY 100-YR 24-HR STORM, AND RETAIN THE CACHE VALLEY 90TH PERCENTILE STORM OF 0.60-IN. NO RETENTION WILL BE PROVIDED IN THE EVENT THE SITE'S PERCOLATION RATES ARE LESS THAN 120 MIN/IN. STORMWATER WILL BE RELEASED AT THE SITE'S PRE-DEVELOPMENT RUNOFF RATE OF 2.72 CFS ONCE THE RETENTION VOLUME HAS BEEN ACHIEVED. THIS SITE SHALL CONFORM TO ALL STANDARDS OUTLINED IN THE CACHE VALLEY STORMWATER DESIGN STANDARDS. SEE SHEET 6 FOR STORMWATER CALCULATIONS.

ALL RUNOFF WILL BE CONVEYED AND STORED IN TWO STORMWATER PONDS. POND B WILL BE SIZED TO STORE THE MAJORITY OF THE SITE. SEE ABOVE FOR THE ANTICIPATED WATERSHED B. THIS POND WILL BE APPROXIMATELY 3+/- FT. POND A IS ANTICIPATED TO BE A SHALLOW (1+/- FT) POND AND WILL BE SIZED TO STORE THE REMAINING RUNOFF. SEE ABOVE FOR THE ANTICIPATED WATERSHED A. STORMWATER WILL DISCHARGE FROM POND A, INTO A PROPOSED IRRIGATION LINE LOCATED BEHIND THE BACK OF WALK OF 1900 WEST (SEE ABOVE) THAT IS TO BE INSTALLED IN THE SCOPE OF THIS PROJECT.

POND A: TOTAL REQUIRED DETENTION VOLUME: 5,980 CF TOTAL REQUIRED RETENTION VOLUME: 6,650 CF.

POND B: TOTAL REQUIRED DETENTION VOLUME: 103,706 CF TOTAL REQUIRED RETENTION VOLUME: 91,579 CF.

ASSUMPTIONS:

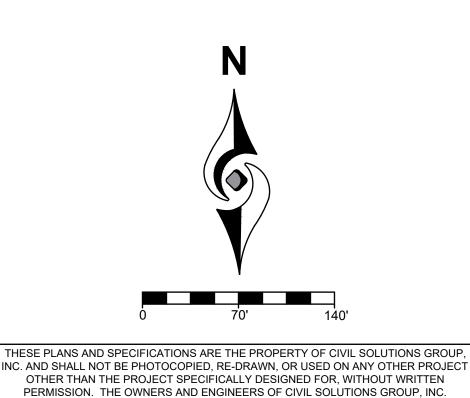
LOTS WILL INCLUDE A 2,000 SF HOME AND A 20'x25' DRIVEWAY

EXISTING ASPHALT
PROPOSED ASPHALT
SANITARY SEWER LINE
STORM DRAIN LINE
CULINARY WATER LINE
WATER VALVE
FIRE HYDRANT
WATER METER
STORM DRAIN BOX
STORM WATER CATCH BASIN
SEWER MANHOLE

WATERSHED BOUNDARY

LEGEND:

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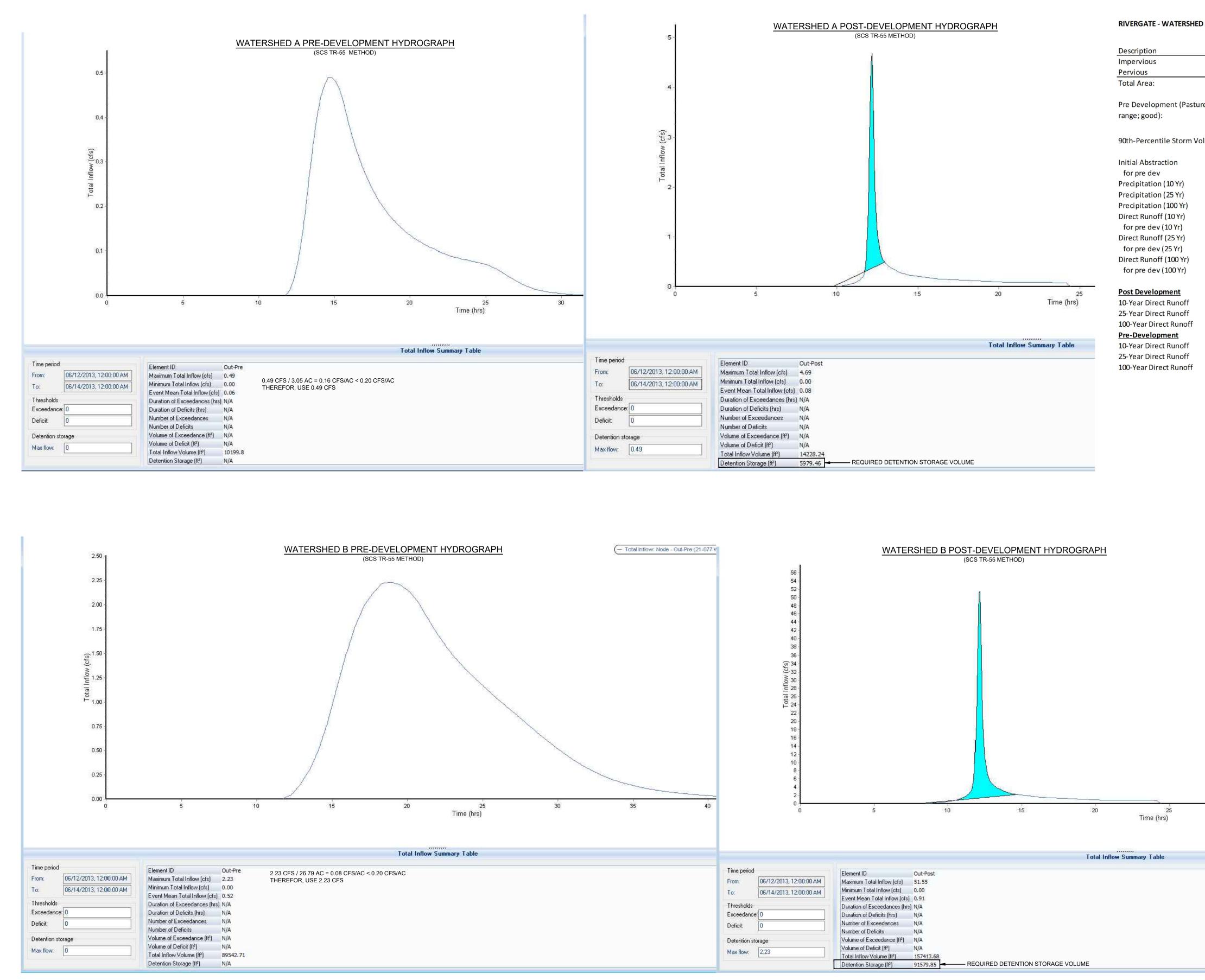
OTHER THAN THE PROJECT SPECIFICALLY DESIGNED FOR, WITHOUT WRITTEN PERMISSION. THE OWNERS AND ENGINEERS OF CIVIL SOLUTIONS GROUP, INC. DISCLAIM ANY LIABILITY FOR ANY CHANGES OR MODIFICATIONS MADE TO THESE PLANS OR THE DESIGN THEREON WITHOUT THEIR CONSENT. THESE PLANS ARE DRAWN TO SCALE WHEN PLOTTED ON A 24" X 36" SHEET OF PAPER. THESE PLANS ARE PRODUCED IN COLOR AND SHOULD BE PLOTTED AS SUCH.



PROJECT MANAGER: M. TAYLOR ISSUED: 12/6/2022



PRELIMINARY CIVIL PLAN



RIVERGATE - WATERSHED A STORMWATER CALCULATIONS

				(SubArea /
	Area (sq ft)	Area (ac)	CN (Group C)	TotalArea)*CN
	34,656	0.80	98	26
	98,347	2.26	74	55
	133,003	3.05	80	
re, grassland, or				
	133,003	3.05	78.26	
olume (0.60-inches):	6,650	cu-ft	REQUIRED RET	TENTION STORAGE VOLUME
		0.49	inches	
		0.56	inches	
	24 hour storm	2.04	inches	
	24 hour storm	2.41	inches	
	24 hour storm	3.02	inches	
	24 hour storm	0.60	total runoff depth	
	24 hour storm	0.52	total runoff depth	
	24 hour storm	0.84	total runoff depth	
	24 hour storm	0.74	total runoff depth	
	24 hour storm	1.28	total runoff depth	
	24 hour storm	1.16	total runoff depth	
	0.15	acre-ft	6,625	ft3
	0.21	acre-ft	9,311	ft3
	0.33	acre-ft	14,198	ft3
	0.13	acre-ft	5,730	ft3
	0.19	acre-ft	8,228	ft3
	0.29	acre-ft	12,841	ft3

RIVERGATE - WATERSHED B STORMWATER CALCULATIONS

				(SubArea/
Description	Area (sq ft)	Area (ac)	CN (Group C)	TotalArea)*CN
Impervious	543,411	12.48	98	46
Pervious	623,693	14.32	74	40
Total Area:	1,167,104	26.79	85	
Pre Development (Pasture, grassland, or				
range; good):	1,167,104	26.79	78.26	
90th-Percentile Storm Volume (0.60-inches):	58,355	cu-ft	REQUIRED RE STORAGE VOL	
Initial Abstraction		0.35	inches	
for pre dev		0.56	inches	
Precipitation (10 Yr)	24 hour storm	2.04	inches	
Precipitation (25 Yr)	24 hour storm	2.41	inches	
Precipitation (100 Yr)	24 hour storm	3.02	inches	
Direct Runoff (10 Yr)	24 hour storm	0.83	total runoff depth	1
for pre dev (10 Yr)	24 hour storm	0.52	total runoff depth	1
Direct Runoff (25 Yr)	24 hour storm	1.12	total runoff depth	1
for pre dev (25 Yr)	24 hour storm	0.74	total runoff depth	1
Direct Runoff (100 Yr)	24 hour storm	1.62	total runoff depth	1
for pre dev (100 Yr)	24 hour storm	1.16	total runoff depth	1
Post Development				
10-Year Direct Runoff	1.86	acre-ft	81,107	ft3
25-Year Direct Runoff	2.50	acre-ft	108,740	ft3
100-Year Direct Runoff	3.61	acre-ft	157,355	ft3
Pre-Development				
10-Year Direct Runoff	1.15	acre-ft	50,280	ft3
25-Year Direct Runoff	1.66	acre-ft	72,201	ft3
100-Year Direct Runoff	2.59	acre-ft	112,676	ft3

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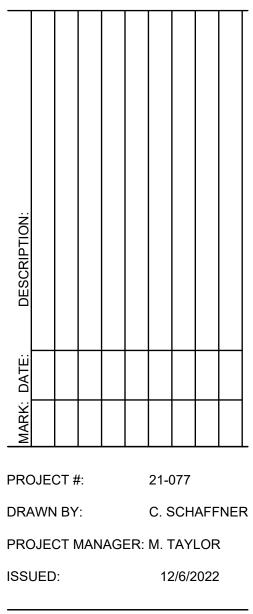
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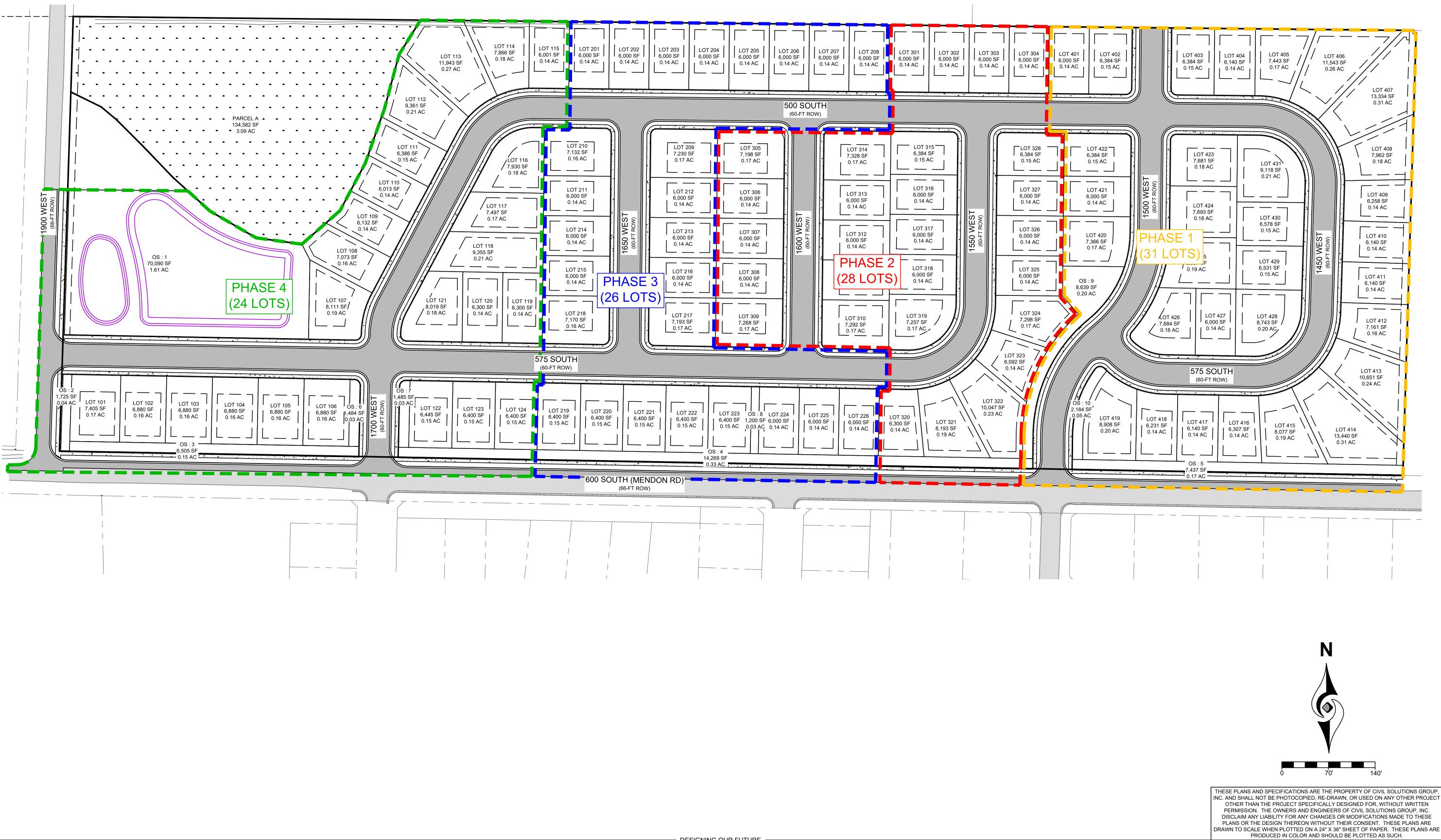
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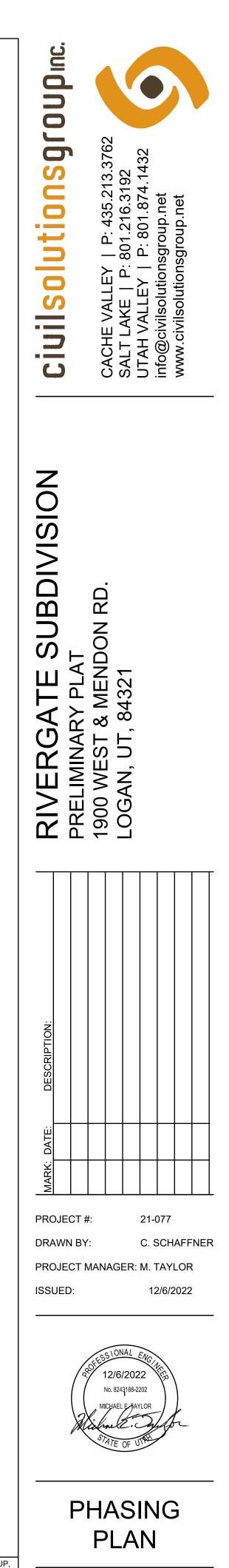




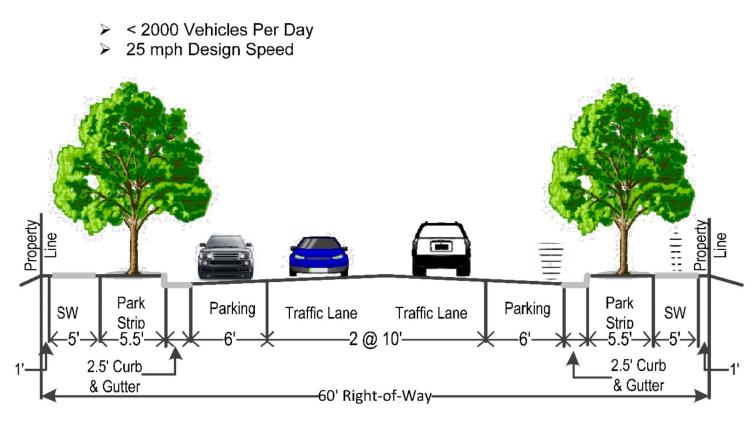
STORMWATER CALCULATIONS

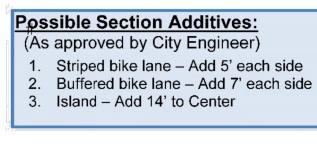


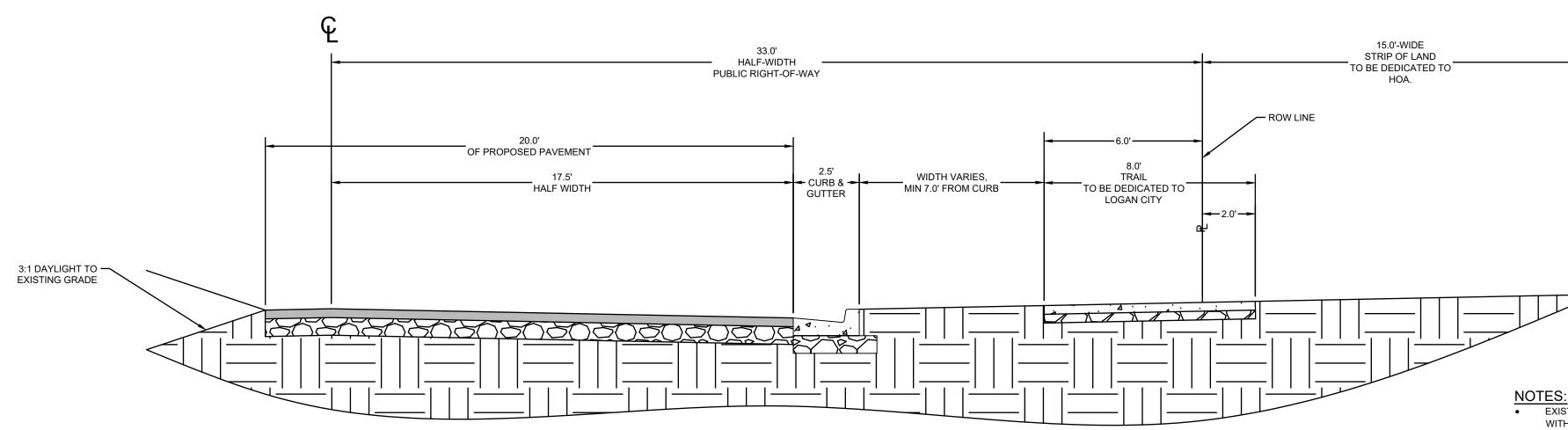


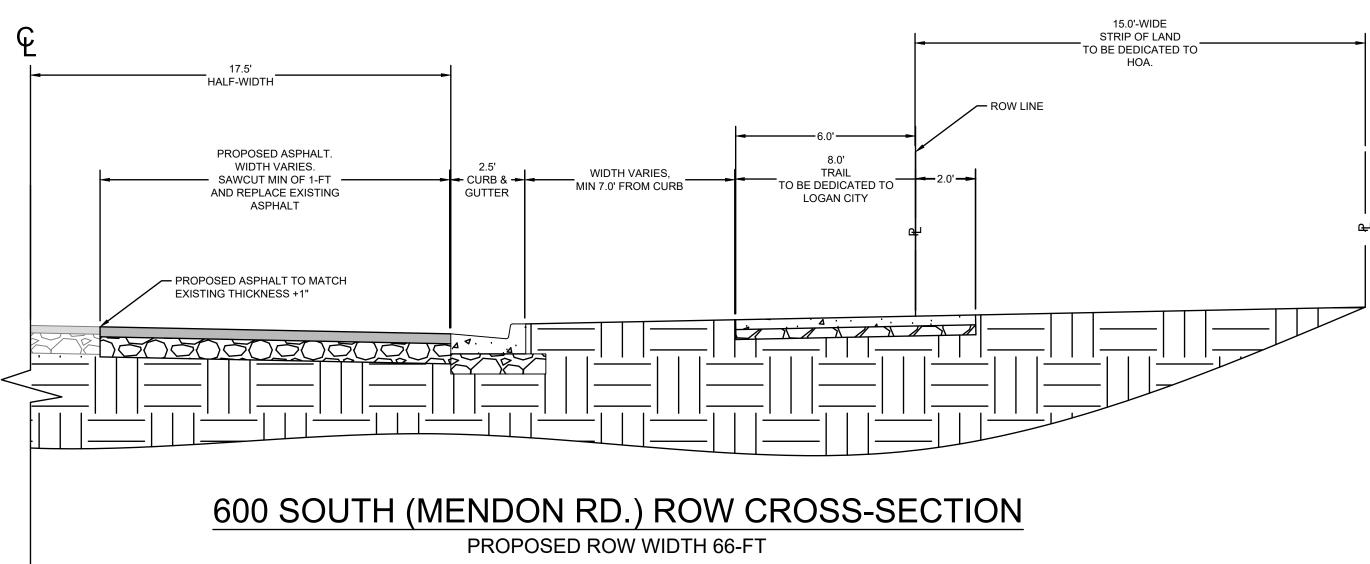


Local Residential Street **Cross Section**









ROW Width	Pavement Width	Number of Lanes	Design Speed	Pavement	Vehicle Design	Stopping Sight Distance	Horizontal Alignment & Radius	Vertical Curve Min "K" Sag/Crest Requirement	Grades
60	32	2	25	See minimum Pavement Section Table	Passenger, School Buses, Delivery Trucks	200	200	26/12	0.4 - 10
Intersection Sight Distance	Minimum Signalized Intersection Spacing	Minimum Full Movement Access Spacing	Corner Curb Radius	Minimum Un-signalized Full Movement Access Spacing (ft.)**		Minimum Right In/Right-out Access Spacing (ft.)**		Residential Driveways Permitted	
280	N/A	125	13-25	N/A			N/A		Yes

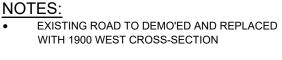
Design Standards

**Distances to be measured from center of driveway to center of driveway



PROPOSED ROW WIDTH 66-FT

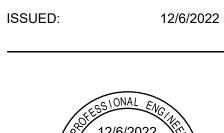
- DESIGNING OUR FUTURE



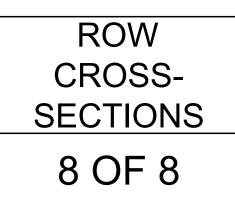
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SUBDIVISION Y PLAT MENDON RD. 34321 Щ - АR д АR т & № 1,84 U RIVERC PRELIMINA 1900 WEST LOGAN, UT

PROJECT #: 21-077 C. SCHAFFNER DRAWN BY: PROJECT MANAGER: M. TAYLOR









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