PLANNING COMMISSION REPORT



Meeting Date: August 11, 2021

General Plan Element: Land Use

General Plan Goal: Create a sense of community through land uses

ACTION

WestWorld Sport Fields MUMSP 9-UP-2021

Request to consider the following:

 A recommendation to City Council regarding a request by owner for approval of a Municipal Use Master Site Plan for a 29-acre new multi-use sports field with field lighting located at the east side of Westworld, 15514 & 15522 N. Thompson Peak Parkway, 9809 E. McDowell Mountain Road, 15939 N. 98th Street, and Parcel APN 217-14-038B, zoned Single-family Residential, Environmentally Sensitive Lands (R1-35, ESL) and Western Theme Park District (WP).

Purpose of Request

In accordance with Section 1.501 of the Zoning Ordinance, the Development Review Board and Planning Commission shall review and make a recommendation to the City Council regarding a proposed municipal use master site plan for any site larger than one (1) acre of gross lot area. The applicant's request is for a recommendation to the City Council on the proposed Municipal Use Master Site Plan for a 38-acre multi-use sport fields with field lighting.

Key Items for Consideration

- Municipal Use Master Site Plan Criteria
- The Municipal Use Master Site Plan is consistent with the General Plan
- Environmentally Sensitive Lands Overlay District
- City Council initiated the MUMSP on April 7, 2020 and December 1, 2020
- The Parks and Recreation Commission heard this case on June 16, 2021, and recommended approval to City Council with a 4-0 vote
- The Development Review Board heard this case on July 15, 2021 and recommended approval to City Council with the conditions
- Public comments received expressed support and concerns regarding traffic, sidewalks and drainage

OWNER

Action Taken	

City of Scottsdale 480-312-2522

APPLICANT CONTACT

Joe Phillips City of Scottsdale (480) 861-4823



LOCATION

15514 & 15522 N. Thompson Peak Parkway, 9809 E. McDowell Mountain Road, 15939 N. 98th Street, and Parcel APN 217-14-038B.

BACKGROUND

General Plan

The General Plan Land Use Element designates the property as Cultural/Institutional or Public Use and Office. The Cultural/Institutional or Public Use category includes a variety of public and private facilities including government buildings, schools, private and public utilities and airports. Private facilities include Taliesin West, the Mayo Clinic, Scottsdale Memorial and Scottsdale Memorial North hospitals. Some areas north of the C.A.P. Canal may include a mixture of recreation, tourism, destination attraction, equestrian facilities, hotels or resorts and cultural uses serving a large area.

The Office land use designation includes a variety of office uses. Minor offices have a residential scale and character, often in a campus setting. Minor office uses generate low to moderate traffic volumes and could located along a collector or arterial streets. Major offices include offices and related uses that have more than one story and may have underground parking. Typically, this use is located in the central business district and other major commercial cores.

Zoning

The site was annexed into the City in 1972 (Resolution #645) as Single-family Residential (R1-35). In 1991, the Environmentally Sensitive Lands (ESL) Ordinance was adopted as an amendment to the Hillside District Overlay and incorporated the eastern 5.6-acre parcel into the ESL overlay boundary while the adjacent four parcels were rezoned to the Western Theme Park District (WP) zoning designation in 1995 (Ordinance #2838). The majority of the land is owned by the Bureau of Reclamation and is managed by the city. In December 2020, the city acquired additional land from the Arizona State Land Department to accommodate space to build five sport fields.

Context

The WestWorld Sports Complex site is located approximately 550 feet west of the intersection of N. Thompson Peak Parkway and McDowell Mountain Ranch Road. The surrounding uses are residential, commercial, WestWorld special event facility, and vacant land.

Adjacent Uses and Zoning

North: One-story condominiums (Graythorn) and vacant, undeveloped land

• South: N. Thompson Peak Parkway Right of way abuts the site to the south, beyond N.

Thompson Peak Parkway is the Central Arizona Project canal (CAP) and the McDowell

Mountain Golf Course)

East: Gas station, commercial, and undeveloped land

West: WestWorld theme park and WestWorld Trailhead

Other Related Policies, References:

Scottsdale General Plan 2001, as amended Environmentally Sensitive Lands Zoning Ordinance

APPLICANT'S PROPOSAL

Development Information

The applicant's request is for a recommendation to the City Council on the proposed Municipal Use Master Site Plan to construct new multi-use sport fields with field lighting.

Existing Use: Vacant, undeveloped land with retention basin

Proposed Use: Multi-use sport fields with field lighting

Buildings/Description: Multi-use sport fields with field lighting, restrooms and

office

Parcel Size: 1,225,602 square feet / 28.14 acres (net)

1,279,190 square feet / 29.36 acres (gross)

Building Height Allowed: 24 feet (exclusive of rooftop appurtenances)

Building Height Proposed:
 17 feet 6 inches (inclusive of rooftop appurtenances)

• Parking Required: 189 spaces

• Parking Provided: 455 spaces

Natural Area Open Space Required: 66,213.74 square feet / 1.52 acres
 Natural Area Open Space (2:1 credit): 32,500.16 square feet / 0.75 acres
 Natural Open Space Provided: 66,512.08 square feet /1.52 acres

IMPACT ANALYSIS

Municipal Use Master Site Plan (MUMSP)

In accordance with Section 1.501 of the Zoning Ordinance, the Development Review Board and Planning Commission shall review and make a recommendation to the City Council regarding a proposed municipal use master site plan for any site larger than one (1) acre of gross lot area. The

purpose of the Municipal Use Master Site Plan is to find that the proposed municipal use is of general community interest and to ensure that the general public has the opportunity to comment on the proposed use and site plan design. When evaluating a MUMSP, staff encourages the Development Review Board and Planning Commission to provide a recommendation based on the proposed plan and the compatibility of the proposed use to the adjacent and abutting developments.

Municipal Use Master Site Plan Findings (Zoning Ordinance Section 1.502):

- A. The Municipal Use Master Site plan is not potentially detrimental to adjacent properties.
 - The site design of the sport fields respects nearby uses with; lighting setbacks, lower field
 elevations and shielding that will contain light on the fields, minimal building size and low
 scale design, field setbacks from existing/planned residential area in excess of 550' and
 fields are significantly lower in grade elevation than those uses which provides additional
 buffering from noise and lighting effects.
- B. The site plan proposes a municipal use that is of general community interest.
 - The new sport fields will provide a major recreational and open space service for the community. The site plan conforms with the Environmentally Sensitive Lands Ordinance with the dedication of Natural Area Open Space (NAOS) that includes protection of the Old Verde Canal. Additionally, landscape improvements provide a buffer to the adjoining uses. Vehicular circulation improvements include access from Thompson Peak Parkway (Arterial Street) and McDowell Mountain Road (Major Collector Street) which is more than adequate for traffic generated by the park usage and encourages appropriate and convenient safe access.

Airport Vicinity

The project falls within the AC-1 Airport Influence Zone, which allows recreational facilities with field lighting. Development located within the twenty-thousand-foot radius of the Scottsdale Airport, that penetrates the 100:1 slope from the nearest point of the runway shall submit to the FAA the appropriate forms for FAA review.

Transportation/Trails

The site is located on the southwest corner of McDowell Mountain Ranch Road and Thompson Peak Parkway and is currently vacant. The five planned soccer/multi-use fields are expected to generate on weekdays, a maximum of 600 daily trips, with 40 AM peak hour trips and 170 PM peak hour trips. The fields are expected to generate 1,525 weekend trips with 235 peak hour trips occurring on Saturday and 190 peak hour trips occurring on Sunday. The site will be served by two (2) access points — a driveway at the south side of McDowell Mountain Ranch Road, east of 98th Street, and a driveway on the loop drive along Thompson Peak Parkway that serves the public schools and the McDowell Mountain Ranch public facilities — library, skate park, pool, and soccer fields.

Development of the site will include the installation of curb, gutter, and sidewalk along the McDowell Mountain Ranch Road frontage. These street improvements will be extended to connect to the 98th Street intersection. Sidewalk connections will be provided to the proposed facilities from both

McDowell Mountain Ranch Road and Thompson Peak Parkway. A path connection from the on-site sidewalk will provided to the existing multi-use path along the western portion of the site, which extends to WestWorld. A component of the site development will include modifying the existing multi-use path at the southwest corner of the site to remove it from the stormwater ponding that occurs in this area.

Drainage

The City's Stormwater Department has reviewed the application and finds there are two primary offsite flows that are routed through the site in existing washes. One that runs along the south side of the site and the other that runs through the northwest corner of the site. New culverts will be provided within the washes to convey flows under the driveways and pathways. A new culvert will also be installed to route offsite flow from the Old Verde Canal through the wash that runs along the south side of the site. Other drainage improvements include new storm drains that will collect and convey offsite flows from the properties adjacent to the east side of the site that lie downstream of the Old Verde Canals. The storm drains will also convey runoff collected in catch basins installed within the new parking lot. The sports complex will be designed to meet the drainage requirements set forth by the Bureau of Reclamation for development within their floodwater impoundment area as well as the design requirements outlined in the City of Scottsdale Design Standards and Policy Manual.

Water/Sewer

The City's Water Resources Department has reviewed the application and finds that the proposed water and wastewater is adequate to service the development. Irrigation water for the five (5) sport fields will be provided directly from the CAP (Central Arizona Project) canal nearby. The developer is responsible for providing all water and wastewater infrastructure improvements, including any new service lines, connections, fire hydrants, and manholes to serve the development.

Public Safety

The nearest fire station is within 1 mile of the site and located at 16701 N. 100th Street. The city's public safety division reviewed the site plan and determined the internal circulation accommodates fire truck access and maneuverability for emergency services. There are no anticipated impacts associated with this request.

Natural Area Open Space (NAOS)

Located at the northeast corner of the site is The Old Verde Canal which is considered an archaeological site. As allowed per the Zoning Ordinance Section 6.1060.B.4., the required NAOS for archaeological sites can be reduced by two (2) square feet for each one (1) square foot of approved site (2:1). In result, approximately 17,250 square feet of the Old Verde Canal will be preserved as undisturbed Natural Area Open Space which results in approximately 32,500 square feet of NAOS credit. Overall, NAOS is dedicated along the eastern perimeter of the site and the minimum required NAOS is 66,213.74 square feet and 66,512.08 square feet of NAOS will be dedicated.

Community Involvement

As part of the Municipal Use Master Site Plan application, city staff notified property owners within 0.5 mile of the site. Additionally, the city notified the residents that received notifications of the

Planning Commission Report | WestWorld Sport Fields MUMSP

previously approved MUMSP for the Bell Road Sports Complex Case# 10-UP-2020. In May and June of 2021, the city hosted a virtual public meeting on the City's website:

https://www.scottsdaleaz.gov/construction/project-list/build-mulituse-sports-fields-in-the-area-of-bell-road. The Park and Recreation Commission heard this case on June 16, 2021, and recommended approval with a vote of 4-0 with no discussion. At the July 15, 2021, Development Review Board hearing, two citizens spoke at the hearing and asked the city to consider a regional drainage solution that would benefit their property. Subsequent to the meeting, staff followed-up with the speakers to address their interest and discuss possible future drainage solution.

Policy Implications

The proposed MUMSP will accommodate five (5) new multi-use sport fields to meet the increased demands for lighted sport fields in the community, create the ability for Scottsdale to host larger tournaments and provide parking for special events for 2-4 weeks each year to replace the temporary parking lots on Arizona State Land that have been sold recently.

OTHER BOARDS & COMMISSIONS

Park and Recreation Commission:

The Parks and Recreation Commission heard this case on June 16, 2021 and the motion for approval passed with a 4-0 vote.

Development Review Board:

The Development Review Board heard this case on July 15, 2021 and the motion for approval passed with a 6-0 vote with the consideration of future additional amenities at the site at a later date outside of the approved bond funding and cooperation with the adjacent property owners on regional drainage concerns.

STAFF RECOMMENDATION

Recommended Approach:

Staff recommends that the Planning Commission find that the Municipal Use Master Site Plan criteria have been met, and determine that the proposed Municipal Use Master Site Plan is consistent and conforms with the adopted General Plan, and make a recommendation to City Council for approval of the Municipal Use Master Site Plan, per the attached stipulations.

RESPONSIBLE DEPARTMENTS

Planning and Development Services

Current Planning Services
Capital Project Management
Traffic Engineering
Stormwater Management
Water Resources

Planning Commission Report | WestWorld Sport Fields MUMSP

Plan Review Fire & Life Safely Services

STAFF CONTACTS

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Senior Planner Project Manager
480-312-4211 480-312-2522

E-mail: mtessier@ScottsdaleAZ.gov Email: jphilips@Scottsdaleaz.gov

Planning Commission Report | WestWorld Sport Fields MUMSP

APPROVED BY

07/26/2021

Meredith Tessier, Report Author Date

Tim Curtis, AICP, Current Planning Director

8/2/2021

Date

Planning Commission Liaison

Phone: 480-312-4210 Email: tcurtis@scottsdaleaz.gov

Randy Grant, Executive Director 8/2/2021

Date

Planning, Economic Development, and Tourism

Phone: 480-312-2664 Email: rgrant@scottsdaleaz.gov

ATTACHMENTS

1. Context Aerial

1a. Aerial Close-Up

2. Stipulations

Exhibit A to Attachment #2: Municipal Use Master Site Plan

- 3. Applicant's Narrative
- 4. Zoning Map
- 5. Traffic Impact Summary
- 6. Traffic Study
- 7. Community Involvement / Citizen Input
- 8. City Notification Map
- 9. Parks and Recreation Commission Meeting Minutes
- 10. July 15, 2021 Development Review Board Meeting minutes
- 11. Development Review Board Comment Cards



Context Aerial 9-UP-2021



Close-up Aerial 9-UP-2021

Stipulations for a Municipal Use Master Site Plan For WestWorld Sport Fields MUMSP

Case Number: 9-UP-2021

These stipulations are in order to protect the public health, safety, welfare, and the City of Scottsdale.

SITE DESIGN

CONFORMANCE TO CONCEPTUAL SITE PLAN. Development shall conform with the conceptual site
plan submitted by Gavin & Barker, Inc and with the city staff date of June 2, 2021, attached as
Exhibit A to Attachment 2. Any proposed significant change to the conceptual site plan as
determined by the Zoning Administrator, shall be subject to additional action and public
hearings before the Planning Commission and City Council.

ARCHAEOLOGY

2. The owner shall submit an archaeology survey and report that is prepared by a qualified archaeologist, in conformance with Scottsdale Revised Code, Chapter 46, Article VI. Protection of Archaeological Resources, with the submittal of a Development Review application associated with 9-UP-2021

AIRPORT

- 3. FAA DETERMINATION. With the Development Review Board Application submittal, the owner shall submit a copy of the FAA Determination letter on the FAA FORM 7460-1 for any proposed structures and/or appurtenances that penetrate the 100:1 slope. The elevation of the highest point of those structures, including the appurtenances, must be detailed in the FAA form 7460-1 submittal.
- 4. AVIGATION EASEMENT. With the Development Review Board Application submittal, the owner shall provide a signed and completed Avigation Easement in a form acceptable to the City for recording.

INFRASTRUCTURE AND DEDICATIONS

- 5. CIRCULATION IMPROVEMENTS. Before any certificate of occupancy is issued for the site, the owner shall make the required dedications and provide the following improvements in conformance with the Design Standards and Policies Manual and all other applicable city codes and policies.
 - a. STREETS. Dedicate the following right-of-way and construct the following street improvements:

Street Name	Street Type	Right-of-way Dedications	Improvements	Notes and Requirements
E McDowell Mountain Ranch Road	Major Collector	NA	Construct curb, gutter and eight (8) foot wide sidewalk along project frontage and extending to N. 98 th Street.	a.1. , a.2., + a.3.

Version 2-11 ATTACHMENT #2 Page 1 of 2

- a.1. All street improvements (curb, gutter, sidewalk, curb ramps, driveways, pavement, concrete, etc.) shall be constructed in accordance with the applicable City of Scottsdale's Supplements to the Maricopa Association of Governments (MAG) Uniform Standard Specifications and Details for Public Works Construction, and Maricopa Association of Governments (MAG) Uniform Standard Specifications and Details for Public Works Construction and the Design Standards and Policies Manual.
- a.2. Cross section shall be consistent with existing E McDowell Mountain Ranch Road cross section to the east or project development and near Thompson Peak Parkway.
- a.3. Install an all-way stop control condition at the N. 98th Street intersection.
- b. TRAFFIC IMPROVEMENTS. Construct any improvements supported by the approved traffic impact study, as determined by city staff.
- 6. DRAINAGE REPORT. In the required drainage report, the owner shall address:
 - a. The preliminary drainage report submitted under the use permit case shall be updated to a 75% level of design and analysis level report in accordance with chapter 4 of the DSPM for the development review case for this project.
- 7. BASIS OF DESIGN REPORT (WATER). In the required final basis of design report, the owner shall address:
 - a. Utility Plan.
- 8. FINAL BASIS OF DESIGN REPORT (WASTEWATER). In the required final basis of design report, the owner shall address:
 - a. Maintaining Water Resources approved access to existing manholes within and adjacent to project development.
 - b. Utility Plan.

9. EASEMENTS.

- a. EASEMENTS DEDICATED BY PLAT. The owner shall dedicate to the city on the final plat, all easements necessary to serve the site, in conformance with the Scottsdale Revised Code and the Design Standards and Policies Manual.
- b. EASEMENTS CONVEYED BY SEPARATE INSTRUMENT. Before any building permit is issued for the site, each easement conveyed to the city separate from a final plat shall be conveyed by an instrument or map of dedication subject to city staff approval, and accompanied by a title policy in favor of the city, in conformance with the Design Standards and Policies Manual.
- 10. CONSTRUCTION COMPLETED. Before any building permit is issued for the site, the owner shall complete all the infrastructure and improvements required by the Scottsdale Revised Code and these stipulations, in conformance with the Design Standards and Policies Manual and other applicable standards.

Version 2-11 ATTACHMENT #2 Page 2 of 2





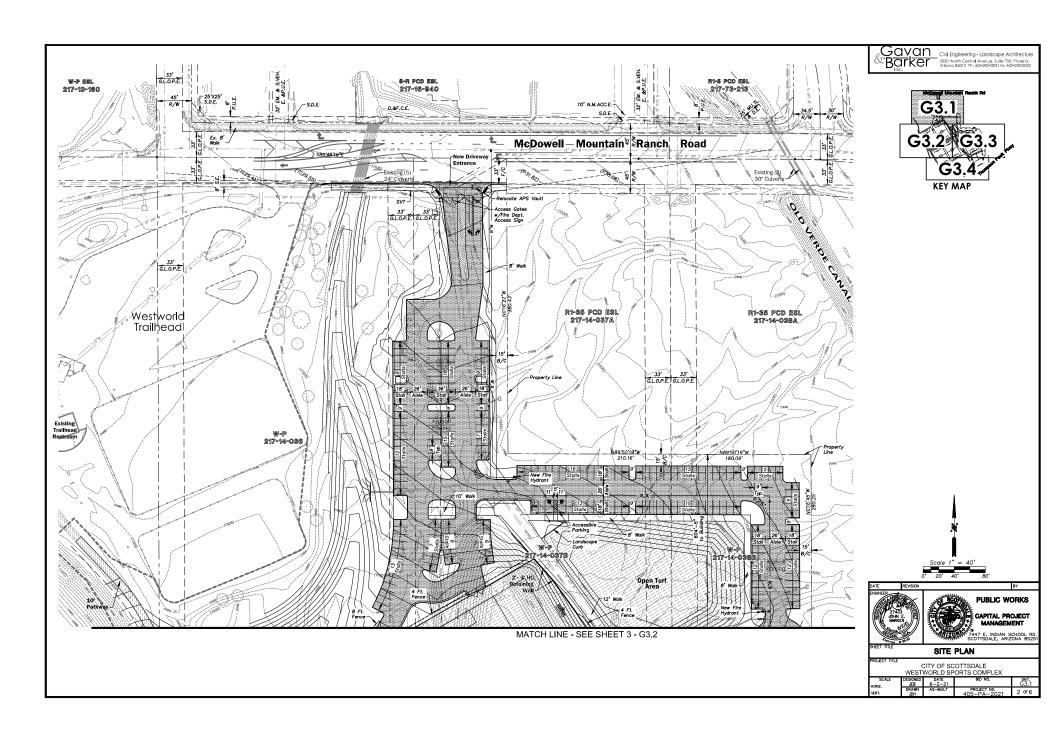


Gayan Civil Engineering - Landscape Architecture PROPERTY OWNER: CITY OF SCOTTSDALE: ENGINEER: LANDSCAPE ARCHITECT: SITE ELECTRICAL ENGINEER: ARCHITECT: IRRIGATION CITY OF SCOTTSDALE 7227 E INDIAN SCHOOL RD, STE 205 SCOTTSDALE, AZ 85251 GAVAN & BARKER INC. MARK GAVAN, P.E. 3030 N CENTRAL AVE, STE 700 PHOENIX, AZ 85012 GAVAN & BARKER INC. JOHN BARKER, PLA, ASLA 3030 N CENTRAL AVE, STE 700 PHOENIX, AZ 85012 LICELLO ARCHITECTS WRIGHT ENGINEERING CORP. CLIFF TOLMAN 165 E CHILTON DRIVE 12 ENGINEERING & Barker 3030 North Central Avenue, Suite 700, Phoenix Arizona 85012 Ph: 602-200-0031 Fx: 602-200-0032 PROJECT MANAGER JOE PHILLIPS, P.E. 7447 E. INDIAN SCHOOL RD, STE 205 SCOTTSDALE, AZ 85251 STEVEN FUCELLO, AIA 7525 E CAMELBACK RD, STE 204 SCOTTSDALE, AZ 85251 J2 ENGINEERING & ENVIRONMENTAL DESIGN, LLC KEVIN WALLIN, CID 4649 E. COTTON GIN LOOP, STE B2 CHANDLER, AZ 85225 jphillips@scottsdaleaz.gov (480) 861-4823 mgavan@gavanbarker.com (602) 200-0031 jbarker@gavanbarker.com (602) 200-0031 sfucello@fucelloarchitects.com (480) 947-2960 ctolman@wrightengineering.us (480) 497-5829 PHOENIX, AZ 85040 kwallin@j2design.us (602) 438-2225 -SITE PLAN SHFFTS w-p esl R1-5 PCD ESL 217-13-160 217-16-940 217-73-213 McDowell - Mountain Ranch ∠ Road 217-73-212 217-14-039B VICINITY MAP R-5 ESL CITY OF SCOTTSDALE WESTWORLD SPORTS COMPLEX R1-35 PCD ESL R1-35 PCD ESL 217-14-003G 217-16-0374 217-14-038A PARCEL ADDRESS: 9875 E. McDowell Mountain Ranch Road QS# 35-51 APN: C.O.S. 217-14-984A......Zoning: R1-35 ESL B.O.R. 217-14-040......Zoning: W-P B.O.R. 217-14-036.....Zoning: W-P B.O.R. 217-14-037B.....Zoning: W-P B.O.R. 217-14-038B.....Zoning: W-P W-P MR1-35 PCD ESL 217-14-036 **^217-14-039Å** ZONING: R1-35 ESL PLANNED USE: CITY PARK AREA OF DISTURBANCE 1,279,190 s.f.
GROSS FLOOR AREA: 1,760 s.f.
PARKING REQUIREMENTS: (City of Scottsdale Park Standards) ACCESSIBLE PARKING: · Sight distance triangles shall be shown on final plans for driveways from commercial sites and any Required Spaces 4% x Provided Parking (189) = intersections. Area within the safety triangle is to be clear of landscaping, signs, or other visibility obstructions with a height greater than 1.5 feet. Trees within the safety triangle shall be single trunk and PARKING PROVIDED: have a canopy that begins at 8 feet in height upon installation. All heights are measured from nearest LIGHTED Accessible Spaces... Additional Event/Tournament Spaces. RESTROOM 258 455 Temporary/Security Fencing that is required or is optionally provided shall be in accordance with the Zoning Ordinance and the Design Standards and Policies Manual. BUILDING BICYCLE PARKING: The temporary/security fence location shall not be modified or the temporary/security fence shall not be 1 per 10 Required Parking Spaces (193) = 20 SPORTS removed without the approval of the NAOS: Required: 66,213.74 s.f. (1.52 Ac) LIGHTED OFFICE BUILDING Planning and Development Services' Inspection Services Division. Provided: 66.512.08 s.f. (1.53.Ac) All rights-of-way adjacent to this property shall be landscaped and maintained by the property owner. · All signs require separate permits and approvals. 217-14-003M A master sign program shall be subject to the approved of the Development Review Board prior to the FIELD R1-35 ESL 217-14-984 issuance of a sign permit for multi-tenant buildings. SPORTS No exterior vending or display shall be allowed. · Flagpoles, if provided, shall be one piece conical tapered. No exterior public address or speaker system shall be allowed. · Patio umbrellas, if provided, shall be solid colors and shall not have any advertising in the form of FIELD SPORTS signage or logos. LIGHTED All exterior mechanical, utility, and communication equipment shall be screened to the height of the tallest unit by parapet or screen wall that matches the architectural color and architectural finish of the building. Ground mounted mechanical, utility, and communication equipment shall be screened by a screen wall that matches the architectural color and architectural finish of the building, which is a FIELD minimum of 1'-0" higher than the highest point of tallest unit. (Details are still required.) SPORTS All equipment, utilities, or other appurtenances attached to the building shall be an integral part of the building design in terms of form, color and texture. LIGHTED No exterior visible ladders shall be allowed. All pole-mounted lighting shall be a maximum of 20 feet in height. 8' Trail & FIELD . No chain link fencing shall be allowed. SPORTS No turf areas shall be provided. The die strike the str . No irrigation shall be provided to undisturbed Natural Area Open Space (NAOS) areas Scale 1 $= 100^{\circ}$ Provide the Natural Area Open Space (NAOS) and Limits of Construction (LOC) Protection Program on -Existing NATURAL AREA OPEN SPACE (NAOS) AND LIMITS OF CONSTRUCTION (LOC) PROTECTION Golf Course Maintenance Yard 1. No building, grading, or construction activity shall encroach into areas designated as NAOS, or outside PUBLIC WORKS the designated construction envelope. All NAOS and area outside of the LOC shall be protected from damage prior to, and during construction CAPITAL PROJECT by the follow methods: a. A registered land surveyor shall stake all NAOS and LOC disturbance based on this exhibit. b. + Three (3) foot tall steel rebar, or City of Scottsdale Inspection Services approved similar, shall be set along the NAOS and LOC, and connected with gold roping by the contractor prior to any E. INDIAN SCHOOL RI TSDALE, ARIZONA 852 -Right Turn Lane clearing or grading. SITE PLAN All cactus subject to the City of Scottsdale's native plant ordinance directly adjacent, within two feet, of the NAOS and LOC line shall be fenced with wire fencing to prevent damage. CITY OF SCOTTSDALE WESTWORLD SPORTS COMPLEX d. The staking, roping, and fencing shall be maintained intact by the contractor during the duration of

the construction activity.

the City of Scottsdale for all construction work.

3. The contractor shall remove staking, roping, and fencing after receipt of the Letter of Acceptance from



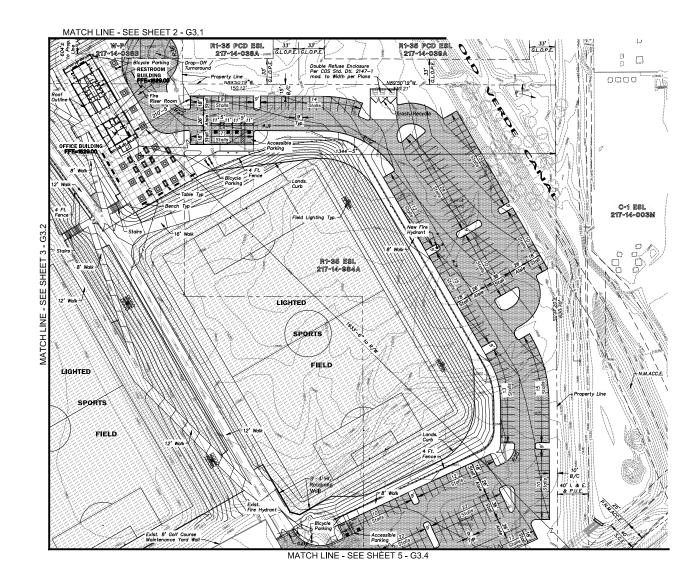


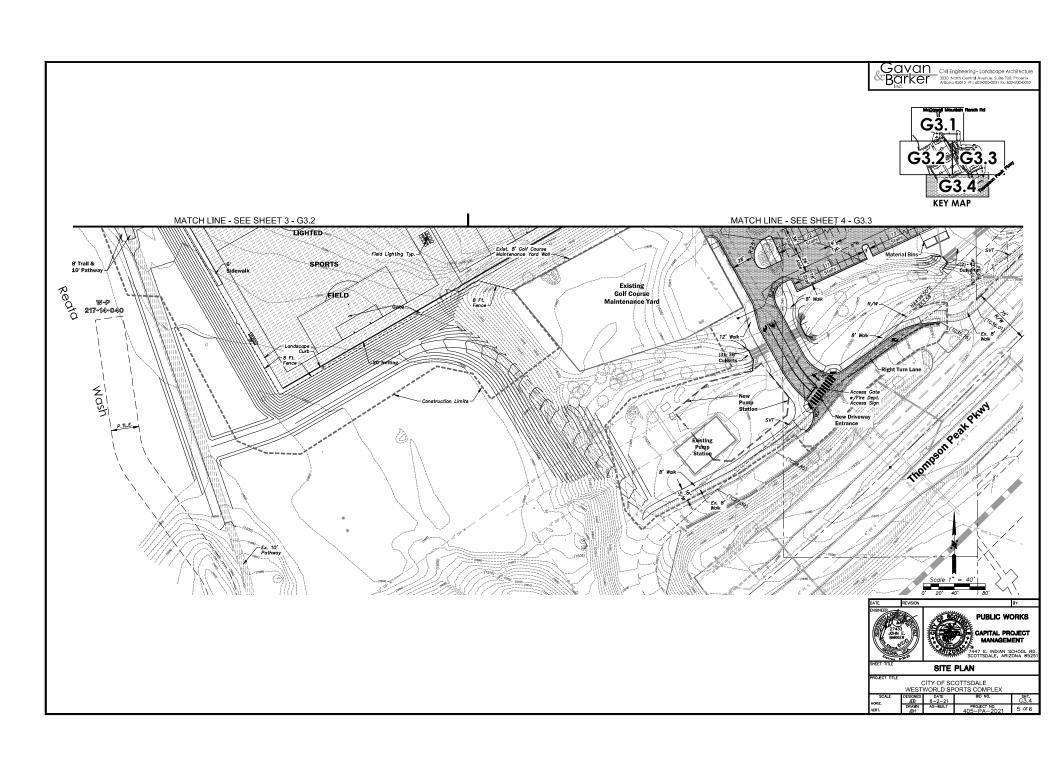


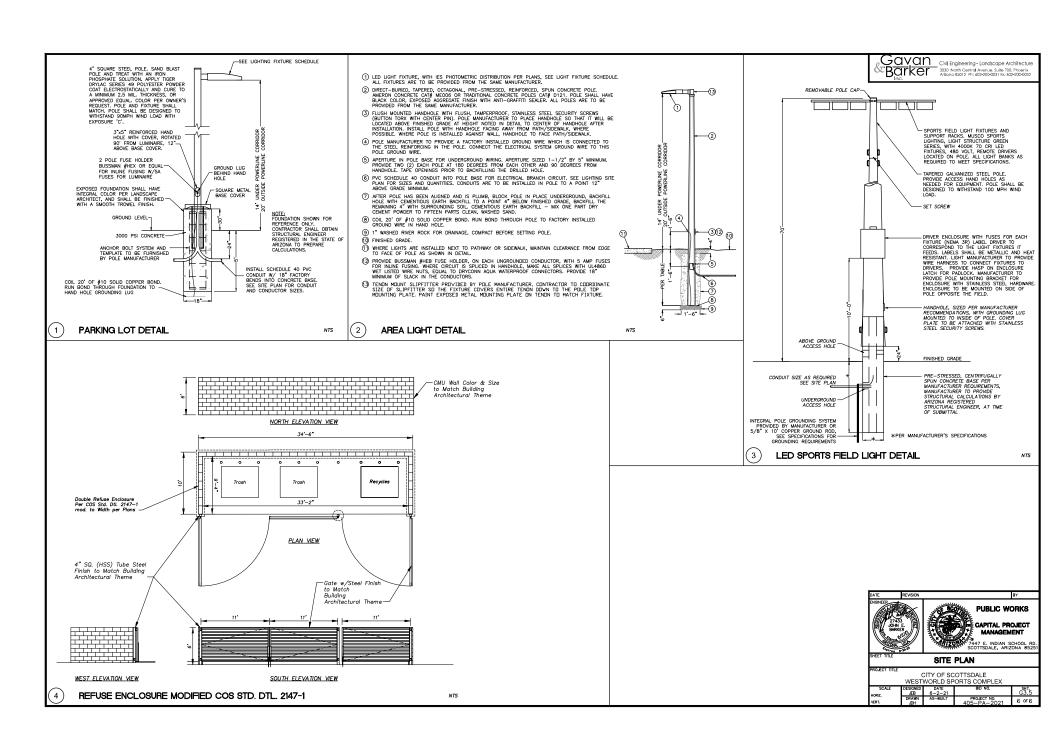


SITE PLAN

CITY OF SCOTTSDALE WESTWORLD SPORTS COMPLEX









Capital Project Management 7447 E. Indian School Road, Suite 205 Scottsdale, Arizona 85251

Web: www.scottsdaleaz.gov/construction Fax: 480-312-7971

Phone: 480-312-2522

May 28, 2021

Updated June 9, 2021

Reference: 405-PA-2021 - Conditional Use Permit - Application Narrative – Bond 53 - WestWorld Sports Complex

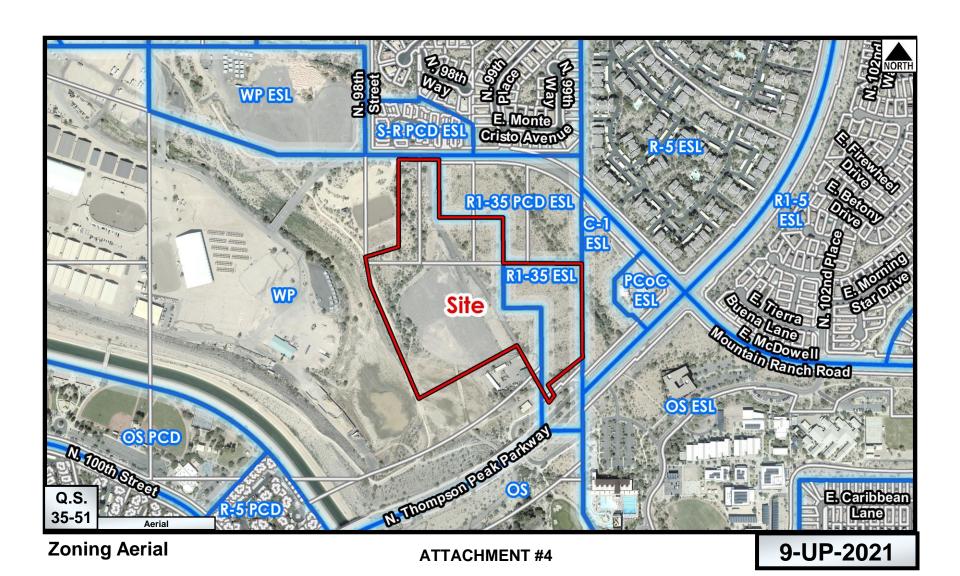
The Park and Recreation Division would like to submit a 'Municipal Use Site Plan' in concurrence with a Drainage Report to develop improvements on assessor parcel numbers 217-14-984A, 217-14-037B, 217-14-038B, 217-14-036, 217-14-040 and the following addresses: 15522 N Thompson Peak Parkway, 15514 N Thompson Peak Parkway, and 15939 N. 98th St.

The proposed improvements will include lighted sports fields, maintenance/restroom building, drainage improvements, parking lots, sidewalks, and traffic improvements. This parcel will meet the increased demand for sports fields in the community as well as create the ability for Scottsdale to host larger tournaments and increase revenue. The fields will be used for parking for special events for a few weeks each year to replace temporary parking lots on Arizona State Land that will become unavailable as the land is sold.

Any development on the property is subject to the requirements of Scottsdale Revised Code, Chapter 46, Article VI, Protection of Archaeological Resources, Section 46-134 – Discoveries of archaeological resources during construction.

Municipal Use Master Site Plan Findings (Zoning Ordinance Section 1.502):

- A. The Municipal Use Master Site plan is not potentially detrimental to adjacent properties.
 - The site design of the sport fields respects nearby uses with; lighting setbacks, lower field elevations and shielding that will contain light on the fields, minimal building size and low scale design, field setbacks from existing/planned residential area <u>in excess of 550</u>° and fields are significantly lower in grade elevation than those uses which provides additional buffering from noise and lighting effects.
- B. The site plan proposes a municipal use that is of general community interest.
 - The new sport fields will provide a major recreational and open space service for the community. The site plan conforms with the Environmentally Sensitive Lands Ordinance with the dedication of Natural Area Open Space (NAOS) that includes protection of the Old Verde Canal. Additionally, landscape improvements provide a buffer to the adjoining uses. Vehicular circulation improvements include access from Thompson Peak Parkway (Arterial Street) and McDowell Mountain Road (Major Collector Street) which is more than adequate for traffic generated by the park usage and encourages appropriate and convenient safe access.



TRAFFIC IMPACT ANALYSIS SUMMARY

Westworld Sports Fields

Generally located southwest Corner McDowell Mountain Ranch Road and Thompson Peak Parkway 9-UP-2021

Summary Prepared by David Smith and P. Murphy, COS Traffic Engineering Traffic Impact Study Prepared by Paul Guzek, Lee Engineering Traffic Impact Study Status: Accepted

Existing Conditions:

Site Location – Generally located southwest corner of McDowell Mountain Ranch Road and Thompson Peak Parkway (MMR and TPP)

Existing Development – Site is currently undeveloped ~22 acres; and is a proposed to be a multi-sport ballfield with five (5) fields.

Street Classifications -

- Thompson Peak Parkway is classified as a Minor Arterial.
- McDowell Mountain Ranch Road is classified as a Major Collector, west of TPP
- MMRR is classified as a Minor Arterial, east of TPP
- 98th Street is classified as a Major Collector

Existing Street Conditions -

- TPP has two (2) travel lanes for each direction with a raised landscaped median.
- MMR, west of TPP has 2 travel lanes for each direction with a TWLTL
- MMR, east of TPP has 2 travel lanes for each direction with a raised landscaped median.
- MMR, west of 98th Street has one (1) lane in each direction of travel.
- 98th Street, immediately north of MMRR, has one lane in each direction. Further north 98th Street provides two lanes in each direction separated by intermittent raised medians and TWLTLs.
- The intersection of MMR/TPP is a four-legged signalized intersection.
 - o EB: Dual Lefts, 2 Thru, and a Right Turn Lane
 - o WB: Dual Lefts, 2 Thru, and a Right Turn Lane
 - o NB: Dual Lefts, 2 Thru, and Dual Rights
 - o SB: Dual Lefts, 2 thru, and a Right Turn Lane
- The intersection of 98th Street/MMRR is a three-legged un-signalized intersection. SB 98th Street is STOP controlled at MMRR.

Existing Volumes (from Lee Engineering Traffic Study):

			Saturday		Sunday		Tuesday AM		day PM
			Total Int.		Total Int.		Total Int.		Total Int.
Intersection Location		Pk Hr	Volume						
Int 1	MMRR & 98th St	10:30	160	10:15	112	7:00	274	16:30	195
Int 2	MMRR & TPP	11:00	2521	10:30	2001	7:15	2439	16:45	2564
Int 3	AC/P Access Rd & TPP SB	10:45	1322	11:00	989	7:00	1362	16:30	1155
Int 4	AC/P Access Rd & TPP NB	11:00	1035	10:45	859	7:15	1171	16:45	1369
	Total		5038		3961		5246		5283
Percent of Highest			95.4%		75.0%		99.3%		100.0%

Note: MMRR - McDowell Mountain Ranch Road, TPP - Thompson Peak Parkway, AC/P - Aquatic Center and Park

Existing Speed Limits -

- TPP has a 45-mph speed limit in the vicinity.
- MMR has a 30-mph speed limit in the vicinity.
- 98th Street has a 35-mph speed limit in the vicinity.
 - o 30-mph when school in session

Collision Information (From Lee Engineering Traffic Study) -

		Total Crashes				Injury Severity					
					Total						Total
Intersection Location		2017	2018	2019	Crashes	None	Possible	Minor	Major	Fatal	Crashes
Int 1	MMRR & 98th St	0	0	0	0	0	0	0	0	0	0
Int 2	MMRR & TPP	7	4	7	18	13	3	2	0	0	18
Int 3	AC/P Access Rd & TPP SB	0	1	0	1	0	1	0	0	0	1
Int 4	AC/P Access Rd & TPP NB	1	0	0	1	1	0	0	0	0	1
	Total		5	7	20	14	4	2	0	0	20
	Pecent of Total		25%	35%		70%	20%	10%	0%	0%	

Collision Rates (City of Scottsdale 2018 Traffic Volume and Collision Report)

• Intersection of MMRR/TPP – 0.32

The citywide average rate for intersection collisions is 0.58.

 Data unavailable for McDowell Mountain Road from Thompson Peak Parkway to 98th Street.

Proposed Development:

Description - The proposed development is expected to consist of five rectangular lighted multi-use athletic fields along with a restroom building, 450 paved parking spaces to the north, east, and west sides of the fields, sidewalks and asphalt pathways.

Site Access – The parking area will be accessible via two driveways, one from McDowell Mountain Ranch Road located about 370 feet east of 98th Street (centerline to centerline) on the north side of the property and one from the Aquatic Center/Park access roadway. Both site driveway approaches will be STOP-controlled for exiting traffic and all parking spaces will be accessible from either access point. Parking will also be used during special events for Westworld.

TRIP GENERATION COMPARISON TABLE:

	Westworld Multi-Use Fields											
	ITE Land Use: (488) Soccer Complex											
# of Fields Weekday Daily			Weekday AM Peak		Weekday	PM Peak	Saturday Daily		Saturday Peak Hour		Sunday Peak Hour	
5	Enter	Exit	Enter	Exit	Enter	Exit	Enter	Exit	Enter	Exit	Enter	Exit
Dir. Dist.	50%	50%	53%	47%	47%	53%	50%	50%	48%	52%	46%	54%
ITE Trip Rate	71	.33	1.	77	16.9		404.88		40.1		28.78	
Trips	179	178	5	4	40	45	1013	1012	96	105	66	78
Trips	35	57	9		85		2025		201		144	

	Westworld Multi-Use Fields												
Scottsdale Specific Data: Soccer Complex													
# of Fields	# of Fields Weekday Daily		Weekday	AM Peak	Weekday	Weekday PM Peak		Saturday Daily		Saturday Peak Hour		Sunday Peak Hour	
5	Enter	Exit	Enter	Exit	Enter	Exit	Enter	Exit	Enter	Exit	Enter	Exit	
Dir. Dist.	50%	50%	53%	47%	47%	53%	50%	50%	48%	52%	46%	54%	
Trip Rate	17	20	8	3	34		305		47		38		
Trime	300	300	21	19	80	90	763	762	113	122	87	103	
Trips	60	00	4	0	170		1525		235		190		

Data gathered from a similar nearby site, located on the northeast corner of Bell Rd/Hayden Road.

Traffic Analysis:

Intersection Level of Service -

The existing and proposed STOP controlled intersections are anticipated to operate at LOS C or better for all approaches.

The existing traffic signal at MMRR/TPP currently operates at an overall LOS C for all periods analyzed and is expected to continue operating at LOS C for the overall intersection in the future condition. Delays of LOS E exist and are anticipated to continue for the following movements:

- Weekend WB Left, SB Left
- Weekday AM EB Left, NB Left, SB Left
- Weekday PM EB Left, EB Thru, NB Left

It is recommended for the City to monitor operations of the signalized intersection and evaluate the need for signal timing adjacent as necessary.

Additional Traffic Volumes -

Weekend – 1,525 daily trips, 235 vph Saturday Peak, 190 vph Sunday Peak Weekday – 600 daily trips, 40 vph AM Peak, 170 PM Peak

Additional Information:

The southbound right turn lane at the Aquatic Center/Park Driveway will lead into another right turn lane into the parking area of the proposed site.

TPP tends to a slight upward slope as SB vehicles approach the Aquatic Center/Park Driveway.

Summary:

The site is currently vacant. The planned multi-use fields are expected to generate, on weekdays, a maximum of 600 daily trips, with 40 AM peak hour trips and 170 PM peak hour trips. The fields are expected to generate 1,525 weekend trips with 235 peak hour trips occurring on Saturday and 190 peak hour trips occurring on Sunday. These numbers were more conservative than those published in ITE and, as such, were used to provide a conservative analysis.

The site will be served by two (2) access points – a driveway at the south side of McDowell Mountain Ranch Road, east of 98th Street, and a driveway immediately south-southwest of the intersection of Aquatic Center (Park) Driveway/Thompson Peak Parkway, on the west side of Thompson Peak Parkway.

Traffic Engineering staff have the following comments/concerns:

- The City will continue to monitor the signalized intersection of MMR/TPP to ensure continued safe and efficient operations.
- Staff has received feedback regarding the proposed southbound right turn lane at the Aquatic Center/Park Driveway. The right turn deceleration lane meets City standard for storage length and will also include the existing right turn deceleration lane off Thompson Peak Parkway.
- All-way stop analyses was included in the traffic study and not recommended at this time. City staff can continue to monitor into the future.
- Future City project to complete half-street construction of 98th Street from MMR to the north, which may include additional intersection control evaluation.

Westworld Sports Fields

Scottsdale, Arizona

Traffic Study

Lee Engineering Project No. 1079.10

July 2021

APPROVED

Prepared for:



Prepared by:

Lee Engineering, LLC 3610 N. 44th Street Suite 100 Phoenix, AZ 85018 (602) 955-7206



LEE ENGINEERING

ATTACHMENT #6

Westworld Sports Fields Traffic Study

Prepared for:

City of Scottsdale, Arizona

Prepared by:

Lee Engineering

3610 N. 44th Street, Suite 100 Phoenix, Arizona, 85018 602-955-7206

Gavan and Barker

3030 N. Central Ave., Suite 700 Phoenix, Arizona, 85012

July 2021



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1.0 BACKGROUND

A City of Scottsdale Capital Project proposes to construct a series of multi-use athletic fields, suitable for soccer and other sports, across several parcels located near the Westworld development near the west corner of Thompson Peak Parkway and McDowell Mountain Ranch Road in Scottsdale, Arizona. Lee Engineering was recently engaged to conduct a traffic analysis of the development for the purposes of estimating its traffic impacts on the adjacent roadway network.

The location of the site is shown in Figure 1; a preliminary site plan, provided by Gavan & Barker, Inc. is shown in Figure 2.

1.1 Scope

In a conference call on March 31, 2021, the City of Scottsdale asked that this study include the following elements:

- Weekday and weekend peak-period traffic volume data collection at these intersections:
 - o Thompson Peak Parkway and McDowell Mountain Ranch Road
 - o McDowell Mountain Ranch Road and 98th Street
 - Thompson Peak Parkway northbound and driveway to McDowell Mountain Ranch Park and Aquatic Center
 - Thompson Peak Parkway southbound and driveway to McDowell Mountain Ranch Park and Aquatic Center
- Crash analysis for the intersections adjacent to the site for a 3-year period
- Trip generation, distribution, and assignment for the proposed soccer complex
- Traffic analysis for the site's opening year at the site's primary access points as well as the intersections listed above. The analysis will include intersection operations, storage length requirements, and pavement marking or design improvements.

The remainder of this report will address these scope elements in turn.



Vicinity Map, Scottsdale Area

Enlargement Area





Westworld Sports Fields - Traffic Analysis





SCOTTSDALE

WestWorld Sports Complex - Preliminary Site Plan McDowell Mountain Ranch Rd & Thompson Peak Pkwy





2.0 STUDY AREA CHARACTERISTICS

2.1 General Study Area

The vision of Scottsdale is to convert under-utilized properties near the southwest portion of Westworld to athletic fields that will also double as overflow parking areas for large events in the area. Traffic on the adjacent roadway network can be assumed as mostly local drivers originating and destined to the residential areas in the immediate project area or other Scottsdale residents located north of Bell Road and east of Pima Road. The vehicular population is limited due to the overall curvilinear nature of the roadways, limited roadway connectivity outside of this area, absence of regional high density commercial areas and the natural border created by the McDowell Mountains. Overall, the area could be considered mostly residential in nature generating mostly commuter traffic during peak hours.

The majority of regional traffic approaching the site from the west is anticipated to use eastbound State Route 101 (SR 101) and exit at the Princess Drive/Bell Road off-ramp, accessing the site from the north via Bell Road to southbound 98th Street. Motorists originating from the south using northbound SR 101 are anticipated to exit at Raintree Drive and approach the site from northbound Thompson Peak Parkway. Drivers west of SR 101 originating near Bell Road will likely stay on the Bell Road/Frank Lloyd Wright Boulevard surface street corridor and approach the proposed facility from northbound Thompson Peak Parkway as well. Traffic originating from the residential areas north of the site could use either 98th Street or Thompson Peak Parkway southbound. Repeat visitors to the athletic fields, especially local traffic from the north or local/regional traffic from the south will have options to use the Aquatic Center/Park roadway off of Thompson Peak Parkway or use McDowell Mountain Ranch Road, depending upon if their destination is a northern or southern athletic field.

Based on the travel routing, the study area intersections and roadways that are expected to accommodate the majority of approaching and departing site traffic have been identified in the scope of work above and are shown in Figure 1.

2.2 Study Area Roadway Characteristics

According to the City of Scottsdale Street Classification map, Thompson Peak Parkway is classified as a "minor arterial – suburban" in the vicinity of the proposed development. Thompson Peak Parkway carries two vehicular lanes and one bicycle lane in each direction, separated by a raised median. The roadway cross section also provides sidewalks on both sides of the street along with roadway lighting. Right-turn lanes are provided at all study intersections. Breaks are not provided in the raised median between 100th Street and McDowell Mountain Ranch Road, which includes the access driveways to the McDowell Mountain Ranch Park and Aquatic Center, rendering intersection movements at these locations to right-turn only movements. The posted speed on this roadway is 45 mph.

McDowell Mountain Ranch Road is classified as a "major collector – suburban" roadway on the City's Street Classification Map providing access to mostly residential developments east and west

of Thompson Peak Parkway. West of Thompson Peak Parkway, the roadway provides for two travel lanes in each direction divided by a two-way left turn lane for most of its length east of its intersection with 98th Street. Bike lanes are present along both sides of the street. Curb, gutter, and adjacent sidewalk are provided along the roadway's north side adjacent to developed areas while the south side of the roadway adjacent to the proposed athletic fields are without these elements. West of 98th Street, the roadway reduces to a rural cross-section with one lane in each direction and a continuous center turn lane to its intersection with Westworld Way. A manual swing gate exists between 98th Street and Westworld Way to close vehicle access to the Westworld complex when needed. The roadway has a posted speed limit of 30 mph.

Running along a north-south alignment, 98th Street is identified as a major collector – suburban roadway. This roadway is approximately 0.6 miles in length originating at Bell Road in the north and terminating at McDowell Mountain Ranch Road in the south. The roadway provides access to residential developments on its east side and Notre Dame Prep Academy to its west. The roadway is a 4-lane divided facility along the Academy's frontage and a 2-lane undivided facility south of the school. The roadway's posted speed limit is 35 mph, except during school hours when the flashing beacons are activated to warn motorists approaching a school street crossing that the speed limit is 30 mph.

Access to the McDowell Mountain Ranch Park and Aquatic Center, as well as a golf maintenance yard, library, and access to 102^{nd} Way and the Desert Canyon Middle School, is available from northbound and southbound Thompson Peak Parkway via the Aquatic Center/Park roadway. The access roadway is not classified on the City's *Street Classification Map* but could be considered a local street due to its low speed and low volume. The roadway is an undivided 2-lane roadway that circles beneath Thompson Peak Parkway that has curb and gutter, a detached sidewalk and roadway lighting. The access roadway does not have posted regulatory speed limit signs.

The only signalized study intersection is Thompson Peak Parkway and McDowell Mountain Ranch Road. The approaches consist of dual left-turn lanes, two through lanes (and a bike lane), and individual right-turn lanes except for the northbound Thompson Peak Parkway approach where two right-turn lanes are provided.

The remaining three study area intersections are minor-street STOP controlled. The McDowell Mountain Ranch Park and Aquatic Center approaches to both northbound and southbound Thompson Peak Parkway are both single-lane right-turn only movements while exclusive right-turn lanes are provided from the two-lane directional mainline approaches. At the 98th Street/McDowell Mountain Ranch Road intersection, the east leg transitions from a 5-lane cross-section to 2 lanes over 350 feet via a wide hatched pavement area to separate the westbound right-turn only lane and the westbound through lane such that the east/west movements through the intersection align. Three driveways at or near this intersection exist for access to an equestrian parking area, an overflow/vehicle staging area for Westworld, and additional overflow parking on the south side of roadway proposed to be re-imagined as part of the athletic field development.

3.0 DATA COLLECTION

3.1 Traffic Volume

Lee Engineering arranged for traffic volume data collection at the four study area intersections for a three-day period on Saturday, Sunday, and Tuesday, April 10 to April 13, 2021. Data was collected when no major events were scheduled at Westworld. Because traffic volumes were collected in April, a month associated with higher traffic volumes, no seasonal volume adjustments were applied to the captured data. It is noted that SR 101 eastbound was closed on Saturday and Sunday between Scottsdale Road and Pima Drive; however, no significant detour traffic was anticipated at the study intersections due to the closure. Overall, normal street circulation patterns were assumed. Moreover, no vehicle adjustment due to Covid considerations were applied. However, it is likely that school operation/traffic was limited due to the coronavirus restrictions, resulting in the westbound approach and southbound left-turn volumes at the 98th Street and McDowell Mountain Ranch Road intersection during the Tuesday AM and PM peak hours under-represented. The amount of additional traffic that should be added to this location (and other intersections noting other area schools) is unknown, but noted for other potential considerations within this report.

Traffic volumes at the intersections were collected in 15-minute increments for 5 hours on Saturday and Sunday (10AM to 3 PM) and for 2 hours during the traditional weekday AM and PM peak periods (7AM to 9AM and 4PM to 6PM). A summary of the peak-hour traffic volumes are graphically depicted in Figure 3 and tabulated below in Table 1. Complete raw count data is provided in Appendix A.

Table 1. Existing Traffic Volumes

			Saturday		nday	Tues	day AM	Tuesday PM	
			Total Int.		Total Int.		Total Int.		Total Int.
Intersection Location		Pk Hr	Volume	Pk Hr	Volume	Pk Hr	Volume	Pk Hr	Volume
Int 1	MMRR & 98th St	10:30	160	10:15	112	7:00	274	16:30	195
Int 2	MMRR & TPP	11:00	2521	10:30	2001	7:15	2439	16:45	2564
Int 3	AC/P Access Rd & TPP SB	10:45	1322	11:00	989	7:00	1362	16:30	1155
Int 4	AC/P Access Rd & TPP NB	11:00	1035	10:45	859	7:15	1171	16:45	1369
Total			5038		3961		5246		5283
Percent of Highest			95.4%		75.0%		99.3%		100.0%

Note: MMRR - McDowell Mountain Ranch Road, TPP - Thompson Peak Parkway, AC/P - Aquatic Center and Park

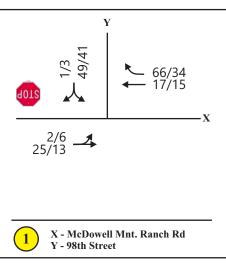
When summarizing the traffic volumes at each intersection, peak volume conditions are associated with weekday evening conditions (5,283 total entering vehicles), while weekday morning peak-hour volumes were 99.3% of evening conditions. Peak Saturday volumes were 95.4% of Tuesday evening volumes and peak Sunday volumes are 75% of Tuesday evening conditions.

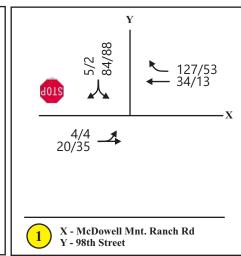
Saturday / Sunday

Tuesday AM/PM



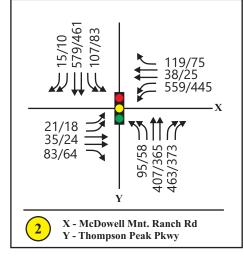
Peak Hour Sat: 10:30AM Peak Hour Sun: 10:15AM Peak Hour Tue AM: 7:00AM Peak Hour Tue PM: 4:30PM

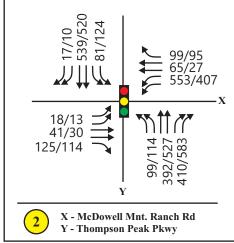




Int. #2

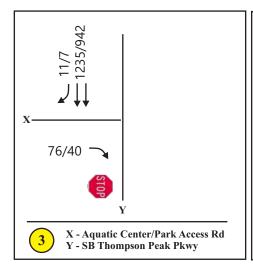
Peak Hour Sat: 11:00AM Peak Hour Sun: 10:30AM Peak Hour Tue AM: 7:15AM Peak Hour Tue PM: 4:45PM

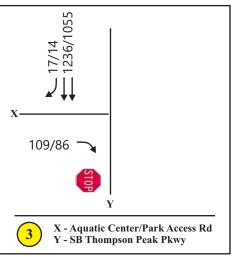


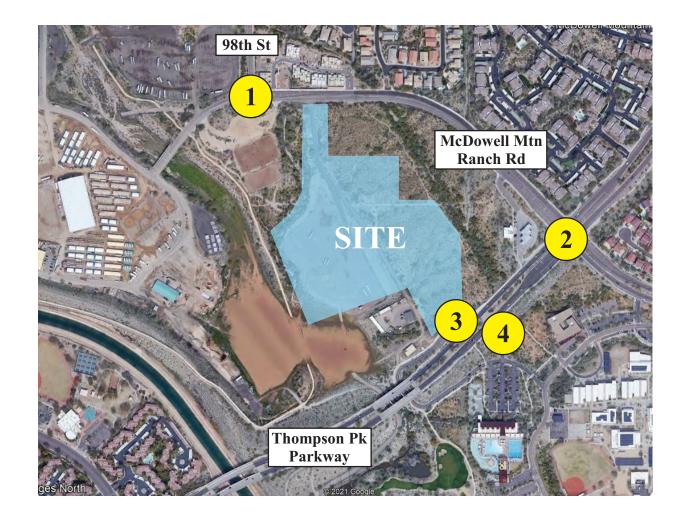




Peak Hour Sat: 10:45AM 11:00AM Peak Hour Sun: Peak Hour Tue AM: 7:00AM Peak Hour Tue PM: 4:30PM

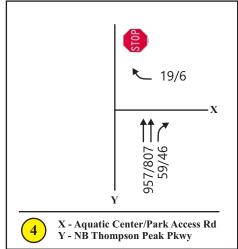


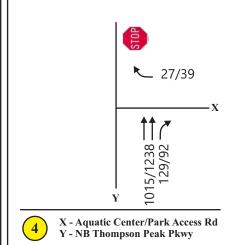




Saturday / Sunday

Tuesday AM/PM





Int. #4

11:00AM Peak Hour Sat: Peak Hour Sun: 10:45AM Peak Hour Tue AM: 7:15AM Peak Hour Tue PM: 4:45PM

Figure 3



Westworld Sports Fields - Traffic Analysis



4.0 CRASH DATA

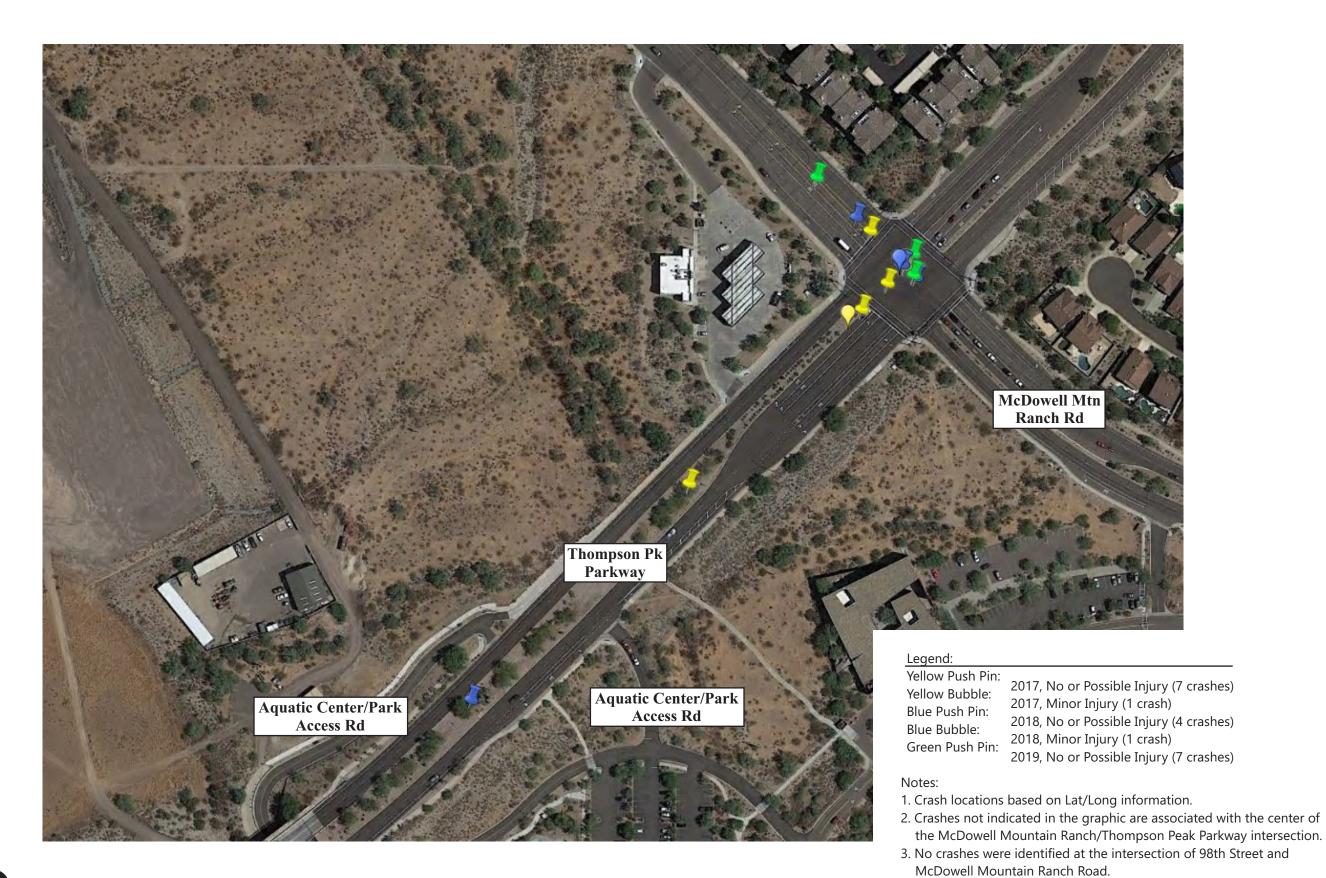
Lee Engineering queried ADOT's Traffic Safety DataMart to identify crashes that occurred at the 4 study intersections. Crashes were queried that occurred in the three-year period from 2017 through 2019, the most recent three-year period for which data is available and occurred within 250 feet of the center of the intersection.

Table 2 provides a tabular yearly summary of the crashes, while Figure 4 shows the location of crashes. Overall, a total of 20 crashes were identified at the four study area intersections. No crashes were identified at the McDowell Mountain Ranch/98th Street intersection, one single-vehicle crash occurred at the Aquatic Center/Park Access Road with northbound and southbound Thompson Peak Parkway, and the remaining 18 crashes were at the signalized McDowell Mountain Ranch/Thompson Peak Parkway intersection. Of the total 20 crashes that were reported, zero crashes were coded as major or fatal crashes, 2 crashes were listed as minor injury, and the remaining crashes coded as possible or no injury. When reviewing the collision manner of the 18 crashes at the signalized intersection, 6 were sideswipe same direction crashes, 6 angle other than left turn, 3 rear end, 2 single vehicle and 1 left-turn. Only 1 crash was considered to have occurred at night and no crashes involved non-motorists.

Table 2. Crash Summary, 2017 thru 2019

		Total Crashes				Injury Severity					
					Total						Total
Intersection Location		2017	2018	2019	Crashes	None	Possible	Minor	Major	Fatal	Crashes
Int 1	MMRR & 98th St	0	0	0	0	0	0	0	0	0	0
Int 2	MMRR & TPP	7	4	7	18	13	3	2	0	0	18
Int 3	AC/P Access Rd & TPP SB	0	1	0	1	0	1	0	0	0	1
Int 4	AC/P Access Rd & TPP NB	1	0	0	1	1	0	0	0	0	1
	Total		5	7	20	14	4	2	0	0	20
Pecent of Total		40%	25%	35%		70%	20%	10%	0%	0%	

Generally, it is believed that the number and severity of crashes document safe operating conditions at the intersections studied. A listing of crashes can be found in Appendix B.





LEE ENGINEERING



Figure 4 **Study Area Crashes**

5.0 PROPOSED DEVELOPMENT

5.1 Development Description

The proposed development is expected to consist of five rectangular lighted multi-use athletic fields along with a restroom building, 450 paved parking spaces to the north, east, and west sides of the fields, sidewalks and asphalt pathways. Other elements associated with the project include realigning the existing wash on the northwest side of the property, adding box and pipe culverts as necessary, constructing retaining walls where needed, reconstructing portions of the existing trail and path near the Westworld Trailhead, adding fencing and netting around the periphery of the fields, as well as other items.

The parking area will be accessible via two driveways, one from McDowell Mountain Ranch Road located about 370 feet east of 98th Street (centerline to centerline) on the north side of the property and one from the Aquatic Center/Park access roadway, located about 200 feet south of the Thompson Peak Parkway southbound intersection. Both site driveway approaches will be STOP-controlled for exiting traffic and all parking spaces will be accessible from either access point.

From a more detailed review of Figure 2, the McDowell Mountain Ranch access will be located at an existing curb cut location that provides access to an unpaved overflow parking area continuing south to serve as the north access to the golf course maintenance yard. The pavement markings on McDowell Mountain Ranch Road will require slight modification to extend the center left-turn lane about 50 feet west to provide the full turn lane width to the widened driveway apron. The separate left- and right-turn lane egress movements will be separated from the ingress lane by an approximate 10-foot landscaped median island. In the future, a potential connection from the 98th Street intersection to the proposed driveway may be considered, maintaining a driveway throat length of 150 feet.

The south site access off of the Aquatic Center/Park driveway will be a new driveway approximately 150 feet from southbound Thompson Peak Parkway. The driveway will provide a 100-foot right-turn deceleration lane to separate vehicles turning into the sports facility. Vehicles entering from northbound Thompson Peak Parkway and using the access road will make a left turn from the existing through lane. This access will have 1 entry and 2 exit lanes and provide about 150 feet of throat length to the first cross drive into the parking area.

The parking stalls are scaled to be 10 feet by 18 feet and the drive aisles 24 feet, matching or exceeding the minimum dimension for each element set forth within the City's *Design Standards & Policies Manual* (DSPM).

The parking lot layout will provide vehicular connectivity between McDowell Mountain Ranch Road near 98th Street and southbound Thompson Peak Parkway/Aquatic Center/Park access road. However, due to the circuitous travel path through the parking area, it is unlikely drivers will consider this new path as an alternative to travel along the adjacent roadway network. The amount of any "cut-through" traffic is expected to be negligible and is not quantified as part of this study.

5.2 Projected Traffic

5.2.1 Trip Generation

The first step in estimating traffic to and from the proposed development is to calculate trip generation, which is the total vehicle trips to and from the site over a given time period. Two methods were used to estimate trip generation.

ITE Method

The *Trip Generation* Manual, 10th Edition, published by the Institute of Transportation Engineers (ITE) provides trip generation estimates for a wide variety of land uses. Based on the site's expected use, the ITE land use code (LUC) that best represents the site is LUC #488, Soccer Complex.

Trip Generation includes limited information about LUC #488 because of a small sample size of similar developments. The small sample size tends to limit confidence in the trip generation estimate, which is one reason a second trip generation method was used, as discussed later.

Trip Generation does include information for both weekday morning and afternoon peak hours both for the generator and for adjacent street traffic. For both morning and afternoon periods, the peak hour of the generator was used. In both cases, the value is slightly higher than the peak of the adjacent street traffic.

Only one time period (Saturday peak hour) includes a fitted curve, but the average trip rate was used for all time periods evaluated. The difference between the fitted curve and the average rate for the Saturday peak hour is small, and the average rate shows a slightly higher (more conservative) number of trips.

Table 3 presents the trip generation data for the site using the ITE method. In total, this method predicts that site is expected to generate about 357 trips on a typical weekday, with about 85 of those trips in the afternoon peak hour. Traffic is expected to be much higher on weekends than on weekdays. Expected daily traffic is more than 5 times greater on Saturday than on a weekday, and Saturday's peak hour traffic is more than double the weekday afternoon peak hour. ITE does not provide a daily traffic estimate for Sunday, but Sunday peak hour traffic is expected to be about 70 percent greater than the weekday afternoon peak hour.

No trip reduction factors were applied to the ITE trip forecast, so all trips generated by the site are considered to be new trips added to the adjacent roadway network.

Table 3. Site Trip Generation – ITE Method

				1	Vestworld	Multi-Use	Fields					
				ITE L	and Use: (488) Socce	r Complex					
# of Fields	Weekda	ay Daily	Weekday	AM Peak	Weekday	PM Peak	Saturda	ay Daily	Saturday I	Peak Hour	Sunday P	eak Hour
5	Enter	Exit	Enter	Exit	Enter	Exit	Enter	Exit	Enter	Exit	Enter	Exit
Dir. Dist.	50%	50%	53%	47%	47%	53%	50%	50%	48%	52%	46%	54%
ITE Trip Rate	71.	.33	1.	77	16	5.9	404	1.88	40).1	28	.78
Trips	179	178	5	4	40	45	1013	1012	96	105	66	78
irips	35	57	9)	8	5	20	25	20	01	14	14

Comparison Site Method

Because the ITE method relies on a limited supply of data, the City of Scottsdale collected traffic volume information for a similar nearby site, located on the northeast corner of Bell and Hayden Roads. Data at this site was collected from October 14 through 18, 2020, and reflects the fact that only seven of the comparison site's ten athletic fields were in use during this period. The City of Scottsdale provided the trip rate information shown in Table 4, reflecting the volume collected at the comparison site. A copy of the raw Scottsdale trip generation data used for this analysis is provided in Appendix C.

Table 4. Site Trip Generation – Comparison Site Method

				1	Westworld	Multi-Use	Fields					
				Scottso	lale Specif	ic Data: Soc	cer Compl	ex				
# of Fields	Weekd	ay Daily	Weekday	AM Peak	Weekday	PM Peak	Saturda	y Daily	Saturday I	Peak Hour	Sunday P	eak Hour
5	Enter	Exit	Enter	Exit	Enter	Exit	Enter	Exit	Enter	Exit	Enter	Exit
Dir. Dist.	50%	50%	53%	47%	47%	53%	50%	50%	48%	52%	46%	54%
Trip Rate	12	20	8	3	3	4	30)5	4	7	3	8
Tring	300	300	21	19	80	90	763	762	113	122	87	103
Trips	60	00	4	0	17	70	15	25	23	35	19	90

The city's data reflects only a single data collection period at one site, but the results are considered more applicable than the ITE Method as the proposed athletic fields are anticipated to operate in a similar manner to the other Scottdale facility analyzed.

The differences between the two trip generation methods are as follows:

- The comparison site method predicts considerably more trips on weekdays, including both morning and afternoon peak hours. About twice as many site trips are predicted using the local method during the weekday afternoon peak hour.
- The comparison site method predicts about 25 percent fewer trips than the ITE method during the day on Saturday, though Saturday peak hour volume is slightly higher by about 17 percent.
- The comparison site method predicts about 32 percent more trips during the Sunday peak hour.

Considering that the comparison site method produced a higher estimate of trip generation for most time periods evaluated, this method's trip generation will be used for the remainder of the analysis, to provide a more conservative estimate of conditions.

5.2.2 Trip Distribution and Assignment

Site-generated trips have been distributed onto the adjacent roadway network based in part on existing traffic volume collected in this study and in part on engineering judgment, considering traffic patterns in the nearby and broader area. The distribution percentages assumed for this study are presented in Table 5. City of Scottsdale Parks Department staff concurred with the trip distribution assumptions during a telephone call on June 24, 2021.

Table 5. Site Trip Distribution

To/From SR 101 (WEST)	25%
98th Street	15%
McDowell Mnt. Ranch Road	5%
Northbound TPP, Access Road	5%
To/From McDowell Mountain Ranch Road (EAST)	5%
McDowell Mnt. Ranch Road	3%
Southbound TPP, Access Road	2%
To/From Thopmson Peak Parkway (NORTH)	10%
McDowell Mnt. Ranch Road	5%
Southbound TPP, Access Road	5%
To/From Thopmson Peak Parkway (SOUTH)	60%
McDowell Mnt. Ranch Road	20%
Northbound TPP, Access Road	40%

Optional approach and departure paths are available to site-generated traffic, depending upon their knowledge of the roadway system and location of the soccer fields in relation to the parking areas. The above entries in the blue rows indicate the overall distribution of site-generated trips, while the non-highlighted rows are a breakdown of the travel paths drivers may take when entering and exiting the facility. Figure 5 shows the localized, non-highlighted traffic percentages and how site traffic is estimated to approach and depart the site. From the percentages shown in Figure 5, it is estimated that 48% of site traffic will enter and exit the north site driveway off of McDowell Mountain Ranch Road (Driveway D1) while 52% will use the south site driveway off of the Aquatic Center/Park access road (Driveway D2).

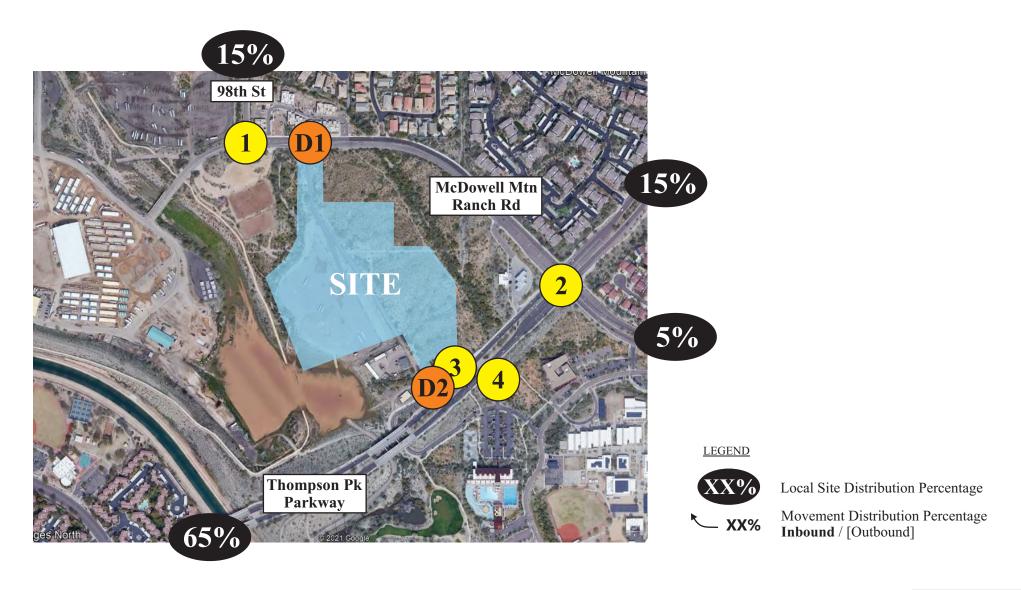
Utilizing the trip generation values in Table 4 and the distribution percentages in Figure 5, the hourly site-generated traffic volumes at each study intersection can be calculated for each time period. The site-generated peak-hour traffic assignment for Saturday and Sunday (top half) and for Tuesday morning and Tuesday evening (bottom half) is presented in Figure 6. When looking at the higher Saturday peak-hour condition, 54 vehicles are estimated to enter and 49 vehicles are estimated to exit the northern D1 driveway while 59 vehicles and 64 vehicles are to enter/exit the southern D2 driveway, respectively. Based on these values, it is estimated that an average of about 1 vehicle per

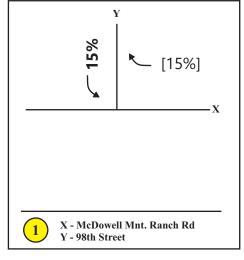
minute will enter and exit each site driveway during the busiest hour of the athletic fields. (Traffic flows will likely have sharper peaks just prior to and following conclusion of particular athletic events at the site.)

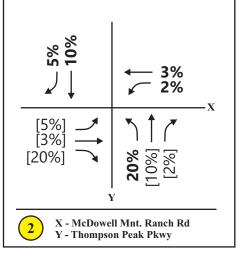
5.2.3 Total Traffic Volume

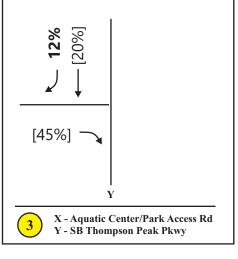
Due to the site's location and limited nearby area for substantial development activity (no identified planned or programmed major development projects), it can be expected that the existing traffic volumes captured for this project will be similar to roadway conditions in the near future when excluding site traffic.

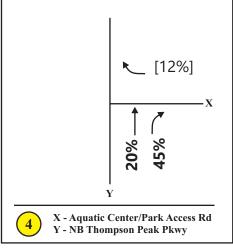
To estimate total traffic volume conditions on the study area roadway network at build-out of the athletic fields, the traffic volumes shown in Figure 3 were added to the site-generated traffic volumes shown in Figure 6. The resulting traffic volumes, presented in Figure 7, are considered the total peak-hour volumes for this study for both weekday and weekend conditions.

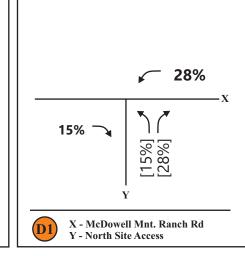


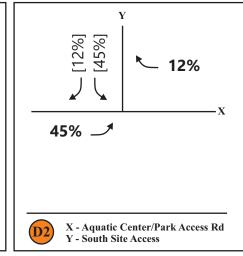














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Figure 5

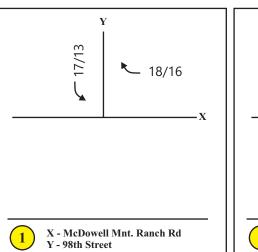


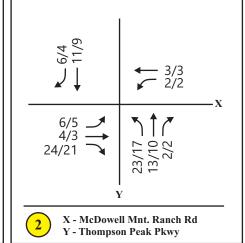
LEGEND

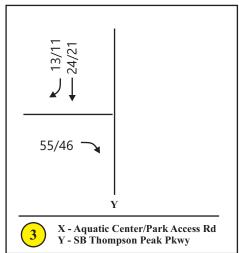
Peak-Hour Trip Assignment

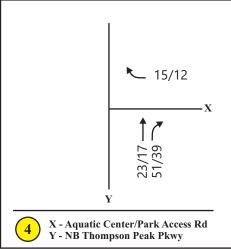
XX/XX Saturday / Sunday or

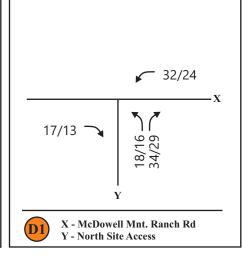
Weekday AM / PM

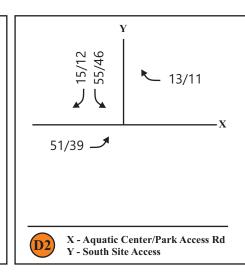






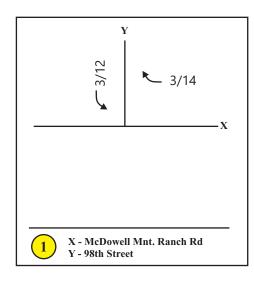


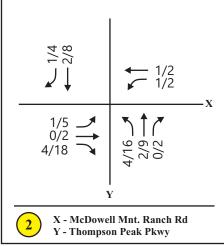


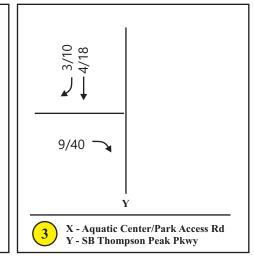


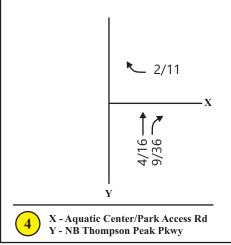
Saturday / Sunday

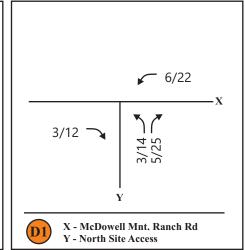
Weekday AM / PM

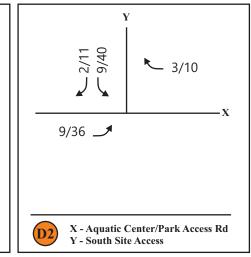










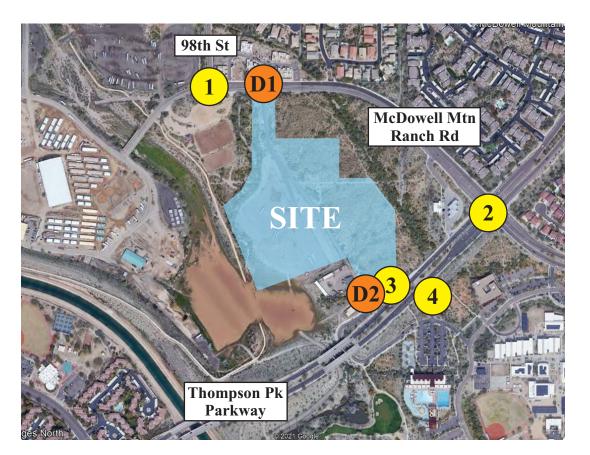




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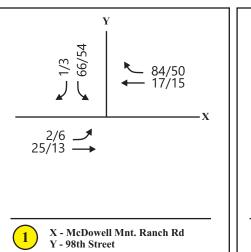


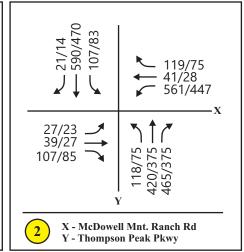
Trip Assignment Figure 6

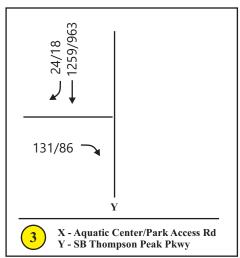


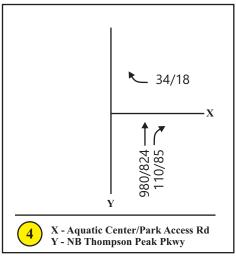
<u>LEGEND</u>

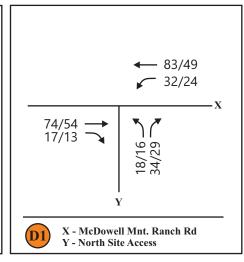
X/XX Saturday / Sunday or Weekday AM / PM

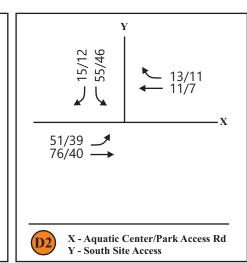






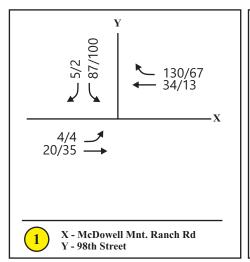


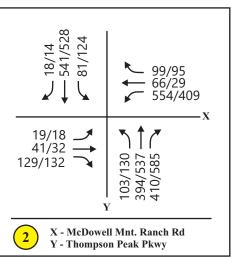


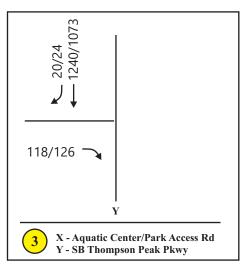


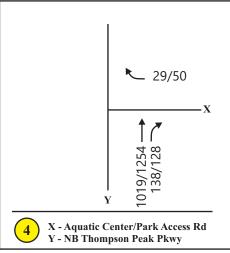
Saturday / Sunday

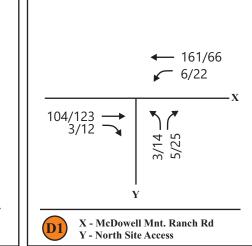
Weekday AM / PM

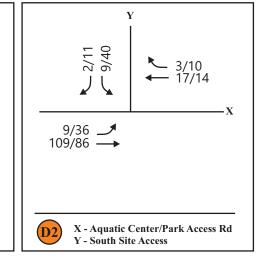














Westworld Sports Fields - Traffic Analysis



5.3 Traffic Operations

The traffic operational characteristics of the study area intersections were evaluated using Synchro software, version 11, which implements the methodologies of the *Highway Capacity Manual* (HCM), 6th edition. The analysis is based on the volumes presented above, along with existing and proposed lane configuration data.

To provide an indication of intersection performance, intersections are typically reported in terms of Levels of Service (LOS). Signalized intersections are based on approach control delay, which includes initial deceleration delay, queue move-up time, stopped delay, and final acceleration delay for all movements. Unsignalized two-way-stop-controlled (TWSC) intersection analysis is based on the minor street approach or critical movement, whichever is applicable. The capacity criteria for signalized and unsignalized intersection analysis are presented in Table 6.

Table 6. Level of Service Criteria for Unsignalized Intersections

Level of Service	Average Control D	elay (seconds/vehicle)
LOS	Signalized	Unsignalized & Roundabouts
Α	≤10.0	≤10.0
В	>10.0 and ≤20.0	>10.0 and ≤15.0
С	>20.0 and ≤35.0	>15.0 and ≤25.0
D	>35.0 and ≤55.0	>25.0 and ≤35.0
E	>55.0 and ≤80.0	>35.0 and ≤50.0
F	>80.0	>50.0

Source: Highway Capacity Manual, HCM 6th Edition, Transportation Research Board, 2016.

Additional performance measures such as volume to capacity (v/c) ratios and queue lengths also provide an indication of operation. The HCM offers the following in Chapter 19:

"For a typical major street with two lanes in each direction and an average traffic volume in the range of 15,000 to 20,000 vehicles/day (roughly equivalent to a peak hour flow rate of 1,500 to 2,000 vehicles/hour), the delay equation will predict greater than 50s of delay (LOS F) for many urban two-way-stop-controlled (TWSC) intersections that allow minor-street left-turn movements. LOS F will be predicted regardless of the volume of minor-street left-turning traffic. Even with a LOS F estimate, most low-volume minor-street approaches would not meet any of the volume or delay warrants for signalization noted in the *Manual on Uniform Traffic Control Devices*. As a result, analysts who use the HCM LOS thresholds as the sole measure to determine the design accuracy of TWSC intersections should do so with caution. In evaluating the overall performance of TWSC intersections, it is important to consider measures of effectiveness such as volume-to-capacity ratios for individual movements, average queue lengths, and 95th percentile queue lengths in addition to considering delay. By focusing on a single measure of effectiveness for the worst movement only, such as delay for the minor-street left-turn, users may make less effective traffic control decisions."

Considering the above guidance, for the purposes of this study, TWSC movements operating at LOS E or F with v/c ratios under 0.80 and acceptable queue lengths will be considered as operating at an acceptable level when the side street traffic volumes do not warrant a traffic signal.

The four study area intersections and two new site access locations were evaluated for both existing and total traffic volume conditions for all 4 peak-hour scenarios. The signal timing data utilized at the intersection of Thompson Peak Parkway and McDowell Mountain Ranch Road was obtained from the City's Engineering Department. Coordination data was provided by the City for weekday conditions, but it was not identified if weekend conditions utilize a coordination pattern. For analysis purposes, the weekday midday timing plan was assumed for both Saturday and Sunday conditions. Other software input parameters utilized default values. No signal modifications were assumed between existing and total conditions. Output results for all analysis conditions can be found in Appendix D.

Table 7 shows a summary of the intersection operations for the existing and total traffic conditions. The 4 time periods on the right side of the table document existing conditions, while the left side of the table shows the results under the estimated total traffic condition. Any result in the total traffic section that shows a degradation of LOS condition and estimated to operate at LOS F is highlighted in red (none identified). Volume to capacity ratios are shown for movements operating at LOS E or F.

From review of Table 7, all minor-street STOP controlled movements operate at LOS C or better conditions during all time periods under existing peak-hour traffic conditions. Under the total traffic conditions, all STOP-controlled intersections, including the new athletic field site driveways, continue to operate at a LOS C or better. In addition to the very good level-of-service conditions, the 95th percentile queue lengths are shown to be very low, less than two vehicles (50 feet) in all scenarios evaluated.

At the lone signalized intersection in the study area, the overall intersection is estimated to operate at LOS C during all time periods. With the estimated site traffic, the overall average vehicle delay will only increase by a maximum 0.4 seconds per vehicle during peak-hour conditions (Sunday). Although some individual movements are shown to operate at LOS E, the majority of their volume to capacity ratios are below 0.80, indicating existing movement capacity is available. In these cases, the high delays can be associated more with longer cycle lengths than a lack of capacity. Only one movement shows a v/c ratio near 0.90, the westbound McDowell Mountain Ranch Road left-turn movement on Saturday. In this instance, peak-hour volumes are over 561 vehicles (the athletic fields adding only 2 vehicles to the movement). The City may wish to consider shifting 1 or 2 seconds to this movement from the N/S though movement, if the signal is operating under the assumed 108 second midday coordination pattern. In this condition, the 95th percentile queue length is identified to be 314 feet, near the maximum storage area available to the movement. Based on overall conditions, no physical capacity modifications are recommended for this location. The City could consider minor timing changes to Saturday operations, if warranted.

Table 7. Level of Service Summary, Existing and Total Traffic Conditions

						Existing	g Cond	itions w	ithou	t Athlet	ic Field	ds										Futui	re Con	ditions	with A	thletic	Fields					
		Saturd	lay Pea	k		Sunda	y Peal	(W	/eekday	/ AM P	eak	W	/eekda	y PM F	eak		Saturd	lay Pea	k		Sunda	y Peak	(W	/eekda	y AM F	eak	٧	Veekday	PM P	eak
Intersection	LOS	Delay	V/C	Queue	LOS	Delay	V/C	Queue	LOS	Delay	V/C	Queue	LOS	Delay	V/C	Queue	LOS	Delay	V/C	Queue	LOS	Delay	V/C	Queue	LOS	Delay	V/C	Queue	LOS	Delay	V/C	Queue
Int 1. MMRR and 98th St (M.	SS)																															
EB Left	Α	7.4		<50	Α	7.3		<50	Α	7.6		<50	Α	7.4		<50	Α	7.4		<50	Α	7.4		<50	Α	7.6		<50	Α	7.4		<50
SB Left/Right	Α	9.1		<50	Α	9.2		<50	Α	9.6		<50	Α	9.6		<50	Α	9.4		<50	Α	9.3		<50	Α	9.6		<50	Α	9.7		<50
Int 2. MMRR and TPP (S)	C	28.2			C	25.3			С	28.5			C	24.5			С	28.4			С	25.7			С	28.1			С	24.5		
EB Left	D	51.1		<50	D	50.9		<50	Е	57.3	0.14	<50	Е	56.5	0.10	<50	D	51.8		<50	D	51.4		<50	Е	57.4	0.14	<50	Ε	57.3	0.14	<50
EB Thru	D	49.6		<50	D	48.8		<50	D	54.8		<50	Ε	55.7	0.16	<50	D	49.8		<50	D	49.0		<50	Е	56.4	0.22	<50	Ε	55.8	0.17	<50
EB Right	Α	7.2		<50	Α	4.7		<50	В	15.7		79	В	11.9		54	В	10.6		56	Α	6.8		<50	В	18.0		84	В	11.7		58
WB Left	Ε	59.3	0.89	311	D	54.1		220	D	53.5		275	D	35.1		198	Е	59.6	0.90	314	D	54.1		221	D	53.5		276	Ε	55.8	0.76	215
WB Thru	С	34.2		<50	С	33.1		<50	С	32.5		<50	С	30.5		<50	С	34.3		<50	С	34.7		<50	С	33.6		<50	D	38.4		<50
WB Right	Α	3.8		<50	Α	0.9		<50	Α	4.0		<50	Α	3.4		<50	Α	3.8		<50	Α	1.0		<50	Α	4.2		<50	Α	4.5		<50
NB Left	D	37.9		55	D	37.5		<50	Ε	59.3	0.44	72	Ε	70.6	0.64	82	D	38.3		66	D	37.6		<50	Е	59.7	0.46	73	Ε	75.3	0.71	107
NB Thru	В	16.6		133	В	15.3		119	С	20.9		154	С	29.0		223	В	16.7		136	В	15.4		122	В	19.4		153	В	18.9		204
NB Right	Α	0.7		<50	Α	0.7		<50	Α	0.7		<50	Α	1.1		<50	Α	0.7		<50	Α	0.7		<50	Α	0.6		<50	Α	1.2		<50
SB Left	Ε	59.0	0.54	70	Ε	55.7	0.44	57	Ε	63.4	0.47	62	D	54.5		84	Е	59.0	0.54	70	Е	55.7	0.44	57	Е	63.4	0.47	62	D	54.4		84
SB Thru	С	27.4		240	С	23.1		188	С	23.6		222	С	25.0		203	С	27.5		245	С	24.6		192	С	21.9		221	В	15.9		185
SB Right	Α	0.1		<50	Α	0.0		<50	Α	0.1		<50	Α	0.0		<50	Α	0.0		<50	Α	0.1		<50	Α	0.1		<50	Α	0.0		<50
Int 3. SB TPP and AC/P (MSS)																															
EB Right	С	16.4		<50	В	12.8		<50	С	17.8		<50	В	14.8		<50	С	19.4		<50	В	13.9		<50	С	18.3		<50	С	16.2		<50
Int 4. NB TPP and AC/P (MS	5)																															
WB Right		12.9		<50	В	11.7		<50	В	14.0		<50	С	16.0		<50	В	13.7		<50	В	12.2		<50	В	14.1		<50	С	17.0		<50
Int D1. MMRR and North Site	Drive	vay (M	SS)																													
WB Left																	Α	7.5		<50	Α	7.4		<50	Α	7.5		<50	Α	7.6		<50
NB Left																	Α	9.9		<50	Α	9.6		<50	Α	9.8		<50	В	10.0		<50
NB Right																	Α	8.7		<50	Α	8.6		<50	Α	8.6		<50	Α	8.8		<50
Int D2. AC/P and South Site D	rivewo	y (MSS)																													
EB Left																	В	10.2		<50	Α	9.6		<50	Α	9.4		<50	Α	9.9		<50
EB Right																	Α	8.4		<50	Α	8.4		<50	Α	8.4		<50	Α	8.4		<50
NB Left																	Α	7.3		<50	Α	7.3		<50	Α	7.3		<50	Α	7.3		<50

Notes

^{1.} MMS = Minor Street Stop Control, S = Signal Control, Delay in seconds, Queue = 95th %-ile in feet.

^{2.} V/C shown in LOS E or F.

Although the estimated volumes and delays at the study area driveways are relatively low, recreational fields can cause sharp traffic peaking patterns, in which a high percentage of hourly traffic may arrive or depart in a relatively short period (15 minutes), as opposed to a more even distribution throughout the hour. Under these scenarios, it is likely that delays and queues may be greater than predicted by the Synchro analysis. However, the peaking characteristics are mitigated by the following:

- Because of low main-street opposing volumes, left-turning vehicles entering the site will likely complete their movements without significant delay or back-ups. Longer delays and vehicle queues will likely be associated with vehicles exiting the fields, where queues would be contained on-site and would not impact the roadway network.
- Separate left and right-turn egress lanes are proposed at each site driveway. This will minimize delays for right-turn vehicles even in the presence of left-turning queues.
- Optional travel routes are available to motorists exiting the north site access destined to the west.
- Signing could be added to help direct motorists to preferred travel routes, if needed.

At this time, it is not recommended that any mitigation measures be taken to address hypothetical vehicle queues or delays. Rather, the city may wish to monitor operations at the study area intersections after opening to confirm the operational characteristics before implementing any changes.

5.4 Turn Lanes

This section evaluates the necessity and appropriateness of turn lanes for each approach at each site access point.

5.4.1 McDowell Mountain Road and North Site Driveway

Location

The proposed north site driveway is located approximately 365 feet east of the 98th Street (centerline to centerline) and 225 feet west of the driveway into the 28-unit Graythorn condominium development. This spacing exceeds the City's minimum driveway spacing of 150 feet but is slightly short of the standard driveway spacing of 250 feet between streets or other driveways on a major collector (DS&PM Figure 5-3.35). However, due to low speed (posted speed limit of 30 mph) and low left-turn volume conditions projected into the athletic fields (maximum 37 peak-hour vehicles on Saturday and 26 peak-hour vehicles on a weekday evening) as well as into the condominium development (5 left-turn vehicles assumed considering a 50/50 split of entering vehicles, per ITE Trip Generation Manual LUC #220) the driveway spacing is adequate.

Eastbound Right-Turn Lane

The site plan does not currently show an eastbound right-turn lane from McDowell Mountain Ranch Road at the north site driveway. Per distribution and assignment analysis, only 17 vehicles are projected to make this right-turn during the highest 60-minute period (peak Saturday conditions). Noting this section of McDowell Mountain Ranch Road is posted 30 mph, none of the City's

warrants identified below are met; therefore, we concur that a right-turn deceleration lane at this location is not warranted.

City Right-Turn Lane Criteria (DS&PM 5-3.206):

- A. At least 5,000 vpd are expected to use the street;
- B. The 85th percentile traffic speed of the street is at least 35 mph;
- C. At least 30 vehicles will make right turns into the driveway during a 1-hour period

Westbound Left-Turn Lane

Scottsdale requires left-turn lanes at all intersections on major collectors and arterials.¹ A westbound left-turn lane approaching the site is provided by utilizing a portion of the existing two-way center turn lane shown on the site plan, in conformance with this requirement. Capacity analysis indicates a 95th percentile queue of less than 2 vehicles (50 feet) during all peak-hour scenarios for the left-turning vehicles entering the athletic fields. Assuming a 50-foot storage area is also needed for left-turn vehicles into the adjacent Graythorn development, the 225-foot center turn lane length separating the two access points is adequate to accommodate the estimated peak-hour queue demands. When considering the striping design between the 2 driveways, TWLTL striping will be from point-of-curvature to point-of-tangent, scaled to be 160 feet. The striping design will permit eastbound entering Graythorn residents 110 feet of turn lane (160 feet – 50 feet) to turn into the center lane and wait for an adequate gap in the westbound traffic stream to complete their desired turn movement.

5.4.2 Aquatic Center/Park Roadway and South Site Driveway

Location

The proposed south site driveway centerline is located approximately 200 feet south of the dedicated right-turn lane off southbound Thompson Peak Parkway on the low-volume/low-speed Aquatic Center/Park roadway. Movement of the driveway farther to the west would result in impacts to the existing golf maintenance yard and need to overcome significant grade issues. As located, the driveway is best situated to minimize on-site circulation issues. Although not an ideal spacing separation, it exceeds the standard 165-foot and minimum 125-foot driveway spacing requirement along a minor collector or lower classified roadway.

Southwest Right-Turn Lane

A proposed right-turn deceleration lane is planned for access into the site, having a 140-foot total design length. Although minimum City taper (70-foot) and storage (100-foot) lengths are not provided, entering vehicles do not have to come to a complete stop and will be travelling at reduced speeds as they turn onto the Aquatic Center drive from the dedicated turn lane off southbound Thompson Peak Parkway. Noting existing low volume conditions from southbound Thompson Peak Parkway (maximum peak-hour volume of 17 vehicles) and low projected site vehicles (maximum 8 peak-hour vehicles), no changes to the proposed turn lane are recommended.

¹ Scottsdale Design Standards & Policies Manual, 2018 Update, Sec. 5-3.123 - E2, p. 308.

Northeast Left-Turn Lane

Because the Aquatic Center/Park roadway is not classified as an arterial or major collector roadway, a dedicated left-turn lane into the site is not required, with the left-turn movement to occur from the through lane. Noting estimated left-turn volumes into the site during peak-hour conditions is a maximum of 51 vehicles and opposing through and right-turn traffic (with site) is 20 vehicles or less, motorists will not be significantly delayed when entering or passing by the site access, as indicated by the LOS A operation in Table 7 for this movement in all 4 analysis scenarios. Based on these conditions, a left-turn lane is not required for this location.

5.5 Sight Distance

All site access points should be designed to accommodate sight distance recommendations in *A Policy on Geometric Design of Highways and Streets*, published by the American Association of State Highway and Transportation Officials (AASHTO). A review of the site reveals that the roadways near the proposed access points are generally on horizontal tangent alignments, with the exception of the Aquatic Center/Park roadway to the south, with little vertical profile, suggesting that roadway elements are not likely to constrain sight distance. Existing native desert vegetation may need to be adjusted to ensure adequate sight distance. Assuming a roadway design speed of 35 mph on McDowell Mountain Ranch Road for the north site access and 30/25 mph on the Aquatic Center/Park roadway for the south site driveway, the following minimum required intersection sight distance needs are identified (DS&PM, Appendix 5-3B):

- North Access Looking East (Right, for left-turn movement) 480 feet (rounded)
- North Access Looking West (Left, for right-turn movement) 425 feet
- South Access Looking South (Right, for left-turn movement) 280 feet (rounded, 25 mph)
- South Access Looking North (Left, for right-turn movement) 290 feet (rounded, 30 mph)

The recommended sight distance, when viewed via Google Earth plan view, can be provided at both site driveway locations.

5.6 Access Design

Both access points, designed as a high-volume access (CH-3) with separated ingress and egress lanes, are appropriate to accommodate the potential high-demand conditions with simultaneous games ending at or near the same time. Over 150 feet of on-site vehicle queue or "throat length" is provided at each access point to minimize interference to cross-aisle traffic and vehicle maneuvering into and out of parking stalls. Both driveways are angled at near 90 degrees to the main roadway, permitting ease of maneuvering and good sight visibility conditions. No modification to the access design is recommended. However, signing that indicates RIGHT TURN YIELD TO PEDESTRIANS could be considered by the City for installation at the south access egress location.

5.7 Traffic Control Considerations at 98th Street and McDowell Mountain Ranch Road

The City has requested an evaluation of the traffic control at the 98th Street/McDowell Mountain Ranch Road (MMRR) intersection to potentially change conditions from minor-street STOP control to multi-way STOP control citing a number of existing and future potential concerns pertaining to pedestrians and vehicle operations.

The MUTCD in Section 2B.04 that states "YIELD or STOP signs should not be used for speed control"; in fact, where stop signs are perceived to be unwarranted, drivers are found to accelerate at a high rate of speed to make up for lost time created by the unnecessary stop.

The MUTCD states that multi-way stop control can be a useful safety measure if certain traffic conditions exist. Safety concerns associated with multi-way stops include pedestrians, bicyclists, and all road users expecting other road users to stop and used where the volume of traffic on the intersecting roads is approximately equal.

Guidance provided within the MUTCD states that the decision to install multi-way stop control should be based on an engineering study that considers the following:

- A. Where traffic control signals are justified, the multi-way stop is an interim measure that can be installed quickly to control traffic while arrangements are being made for the installation of the traffic control signal.
- B. Five or more reported crashes in a 12-month period that are susceptible to correction by a multi-way stop installation. Such crashes include right-turn and left-turn collisions as well as right-angle collisions.
- C. Minimum volumes:
 - 1. The vehicular volume entering the intersection from the major street approaches (total of both approaches) averages at least 300 vehicles per hour for any 8 hours of an average day; and
 - 2. The combined vehicular, pedestrian, and bicycle volume entering the intersection from the minor street approaches (total of both approaches) averages at least 200 units per hour for the same 8 hours, with an average delay to minor-street vehicular traffic of at least 30 seconds per vehicle during the highest hour; but
 - 3. If the 85th-percentile approach speed of the major-street traffic exceeds 40 mph, the minimum vehicular volume warrants are 70 percent of the values provided in Items 1 and 2.
- D. Where no single criterion is satisfied, but where Criteria B, C.1, and C.2 are all satisfied to 80 percent of the minimum values. Criterion C.3 is excluded from this condition.

The MUTCD also indicates other criteria may be considered in an engineering study including:

- A. The need to control left-turn conflicts;
- B. The need to control vehicle/pedestrian conflicts near locations that generate high pedestrian volumes:
- C. Locations where a road user, after stopping, cannot see conflicting traffic and is not able to negotiate the intersection unless conflicting cross traffic is also required to stop; and

D. An intersection of two residential neighborhood collector (through) streets of similar design and operating characteristics where multi-way stop control would improve traffic operational characteristics of the intersection.

In reviewing the initial 4 engineering study criteria, the following is provided:

- A traffic signal is not being considered at this location by the City and therefore this criterion is not met.
- The crash analysis at this location has indicated zero crashes have occurred at this location in the latest available 12-month period, and therefore this criterion is not met.
- Because this study did not perform a full 24-hour count or a speed study at this location, only an estimate of conditions can be considered. Assuming the 85th percentile speed on MMRR does not exceed 40 mph, major street volumes must meet the 100% volume thresholds listed in the MUTCD. Based on the volumes captured and estimated site-generated traffic at this location, peak-hour approach volumes are estimated to be less than 200 vehicles on MMRR and slightly over 110 hourly vehicles on 98th Street. These values fall considerably short of the MUTCD thresholds of 300 vehicles per hour for 8 hours on the major street 200 vehicles per hour for 8 hours on the minor street. In addition, peak period movement delays were calculated to be below 10 seconds per vehicle during all time periods, well below the 30-second MUTCD threshold. Therefore, this criterion is not met.
- Criterion D is not met since an 80% reduction to volume, delay, and crash data will not meet warranting levels.

When considering the other criteria that may permit multi-way stop control:

- There is not an overwhelming need to control left-turn conflicts at this location.
- The need to control vehicle/pedestrian conflicts may be appropriate for this location since the new athletic fields could generate high pedestrian and bicycle users from the adjacent school and the residential community to the northeast. However, treatments other than multi-way stop control may be better equipped to address pedestrian crossing comfort, as discussed below.
- Because of low speeds and the gated roadway condition of the roadway segment to/from Westworld, conflicting left-turn traffic is not a significant concern at this location. If conflicts do exist, elimination of vegetation on the northwest corner would improve visibility.
- It is possible that the two roadways could be considered of similar design and operating characteristics, and it could be argued that multi-way stop control would improve the operating characteristics of the southbound approach and pedestrian crossings. However, it could also be argued that multi-way stop control would degrade operating characteristics of the higher-volume MMRR approaches.

The following general findings can be drawn about the potential for multi-way stop control:

• The traffic volumes collected as part of this study do not justify the installation of multi-way stop control. It is recognized that the volumes are lower than might be typical of times when schools are in session and typical traffic patterns are in place further west on MMRR that might contribute more traffic through the Westworld area. If the city's decision to install multi-way stop is based on MUTCD traffic volume thresholds, the city may wish to collect

- additional traffic volume data and reevaluate the intersection during a time of year when traffic volumes are more typical.
- The intersection has a perfect crash record, so safety is not a reason to install multi-way stop control. Although multi-way stop control is generally considered among the safest forms of intersection control, any traffic control change at an intersection that has experienced zero crashes can have the effect of worsening the intersection's safety performance.
- The city could probably justify installing multi-way stop control based on MUTCD guidance that such control can be considered at two collector roadways with similar operating characteristics. If this decision were made, it could be made either independent of or in conjunction with the athletic field development.
- Advantages of multi-way stop control include the following:
 - o Reduced delay for southbound traffic. However, southbound delay already amounts to less than 10 seconds per vehicle during the peak hours, which corresponds to LOS A conditions. It does not appear to be essential to implement multi-way stop control to gain this delay advantage when delay is already so low.
 - o Improved pedestrian crossing of MMRR. However, multi-way stop control is not usually considered a pedestrian safety countermeasure. If pedestrian crossings are the main reason for considering a traffic control change, the city may wish to consider alternative pedestrian accommodations, such as a pedestrian hybrid beacon (PHB), which has been designated a proven safety countermeasure by the Federal Highway Administration for its ability to control pedestrian crossings. (The recent Notice of Proposed Amendments to the MUTCD proposes to remove MUTCD language limiting PHBs to non-intersection locations.)
 - o Improved ability of the intersection to accommodate the westbound left-turn movement. Under existing conditions, a westbound left-turning vehicle must stop in the through lane to wait for a gap in opposing traffic, which could pose a risk of (but has not resulted in) rear-end crashes. Under multi-way stop control, a left-turn lane is not needed since all traffic on the approach must stop.
- Disadvantages of multi-way stop control include the following:
 - o Increased delay, stops, and corresponding environmental measures on MMRR, the higher-volume of the two streets.
 - O Uncertain handling of the eastbound right-turn movement. This movement is made from a right-turn lane separated from the eastbound through lane by a painted island and bike lane that total about 27 feet wide. Its separation from the main intersection conflict points allows the eastbound right-turn movement to operate safely and effectively uncontrolled, but it would likely need to be stop-controlled in a multi-way stop configuration. Right-turning vehicles may not perceive a need to stop, and compliance may be low, which could pose a threat to conflicting pedestrians.

In summary, multi-way stop control does not appear to be necessary or appropriate under existing conditions based on known traffic volume and safety data. The city may wish to re-evaluate a change in traffic control once site development is in place.

6.0 CONCLUSIONS AND RECOMMENDATIONS

The study has documented the following conclusions and recommendations:

- The proposed development consists of a set of five rectangular multi-use athletic fields near the west corner of Thompson Peak Parkway and McDowell Mountain Ranch Road. A large parking lot, proposed to contain 420 parking spaces, is proposed to have access both from McDowell Mountain Ranch Road and Thompson Peak Parkway via the Aquatic Center/Park roadway.
- Volumes obtained for this study were not adjusted for seasonality, pandemic conditions, or impacts associated with event traffic with Westworld and considered to be typical of everyday traffic conditions. Data collection results at the study area intersections show consistent total volume characteristics during weekday AM, weekday PM, and peak-hour Saturday periods (within 5% of one another), although traffic directionality may differ. Sunday peak-hour volumes are identified to be 75% of peak weekday conditions.
- Crash data showed no notable pattern of crashes adjacent to the site. No crashes were associated with the McDowell Mountain Ranch Road and 98th Street intersection while only 1 crash was located near the Aquatic Center/Park roadway intersections with both the northbound and southbound directions of Thompson Peak Parkway over the three-year period analyzed. The intersection of Thompson Peak Parkway and McDowell Mountain Ranch Road had a total of 18 reported crashes over the 3-year period (average of 6 crashes per year), none considered major or fatal crashes and only 2 coded as minor injury crashes.
- Site trip generation was forecast using two methods:
 - ITE Land Use Code #488 (Soccer Complex) is the most representative land-use code from the nationally-recognized *Trip Generation* Manual, but the manual has limited data for this land use.
 - The City of Scottsdale collected traffic data at a comparable nearby soccer complex, which showed somewhat higher levels of trip generation per field than the ITE method during most time periods evaluated. To ensure a conservative analysis, the higher Scottsdale values were used in the study.
- The selected trip generation method (Scottsdale data) estimates the site will generate the most trips on Saturday, with about 1,525 site vehicles per day and about 235 trip ends during the peak hour. Weekday trips are forecast at about 600 new trip ends per day and 170 trip ends during the higher-volume evening peak hour. A daily trip forecast is not available for Sunday, but Sunday peak-hour volume is forecast at about 190 trip ends.
- Site trip distribution assumes most trips (65 percent) will arrive and depart from the south using Thompson Peak Parkway. Traffic using 98th Street is expected to account for about 15 percent of site trips while the remaining trips are anticipated to use Thompson Peak Parkway from the north or McDowell Mountain Ranch Road from the east.

- Overall, it is estimated that 43% of vehicles will enter/exit the site using the north site driveway while the other 57% is anticipated to use the proposed south site access.
- Peak-hour analysis of the study intersections indicate overall LOS C or better conditions to
 occur with the site-added volumes. No capacity improvements are recommended at any
 study intersection, although the city may wish to consider minor timing changes to the green
 splits.
- At the proposed site access points, traffic volumes on the major streets are identified to be low, minimizing delays and long queues associated with left-turn entering traffic. Analysis also indicates LOS A/B operation for exiting traffic with vehicle queues of less than 2 vehicles. However, when multiple games end at or near the same time and cause a demand spike of exiting vehicles, adequate vehicle storage is provided on-site to minimize impacts associated with long queues that may occur.
- The proposed location and design of the site access points are acceptable as presented in the site layout plan. No changes to the site access points are recommended.
- At the intersection of 98th Street and McDowell Mountain Ranch Road, analysis indicates multi-way stop control does not appear to be necessary or appropriate under existing conditions based on known traffic volume and safety data. The city may wish to re-evaluate a change in traffic control once site development is in place.





Count Name: Westworld Site Code: 1 Sa Start Date: 04/10/2021 Page No: 1

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		98th Street		•	McDowell Mo	McDowell Mountain Ranch		Σ	McDowell Mountain Ranch	ch	
F		Southbound			West	Westbound			Eastbound		
Start Lime	Left	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
10:00 AM	7	0	7	0	2	13	15	0	4	4	26
10:15 AM	10	0	10	0	8	15	23	0	0	0	33
10:30 AM	15	0	15	1	9	16	23	1	9	7	45
10:45 AM	8	0	8	0	4	17	21	0	5	5	34
11:00 AM	9	0	9	0	5	16	21	1	7	8	35
11:15 AM	20	1	21	0	2	17	19	0	7	7	47
11:30 AM	18	0	18	0	4	11	15	0	1	1	34
11:45 AM	14	1	15	0	7	18	25	0	4	4	44
12:00 PM	24	1	25	0	2	6	11	0	4	4	40
12:15 PM	6	0	6	0	8	6	17	0	7	7	33
12:30 PM	18	0	18	0	3	14	17	2	9	8	43
12:45 PM	16	0	16	0	8	16	24	1	5	9	46
1:00 PM	20	0	20	0	3	12	15	0	3	3	38
1:15 PM	21	0	21	0	4	15	19	0	3	3	43
1:30 PM	15	0	15	0	7	15	22	0	5	5	42
1:45 PM	8	0	8	0	4	15	19	0	3	3	30
2:00 PM	15	0	15	0	2	13	15	1	4	5	35
2:15 PM	7	1	8	0	12	10	22	0	5	5	35
2:30 PM	16	1	17	0	2	13	15	0	8	8	40
2:45 PM	13	0	13	0	2	13	15	0	6	6	37
Grand Total	280	5	285	1	92	277	373	9	96	102	260
Approach %	98.2	1.8	-	0.3	25.5	74.3	-	5.9	94.1	-	-
Total %	36.8	0.7	37.5	0.1	12.5	36.4	49.1	8.0	12.6	13.4	-
All Vehicles (no classification)	280	5	285	1	98	277	373	9	96	102	260
% All Vehicles (no classification)	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0



Count Name: Westworld Sife Code: 1 Su Start Date: 04/11/2021 Page No: 1

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O. T. T. T. S. C.		Southbound			Westbound	puno			Eastbound		
Start Time	Left	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
10:00 AM	10	2	12	0	4	8	12	0	2	2	26
10:15 AM	7	0	7	0	3	12	15	-	3	4	26
10:30 AM	15	1	16	0	4	4	8	0	_	1	25
10:45 AM	10	1	11	0	5	10	15	3	5	8	34
11:00 AM	6	1	10	0	3	8	11	2	4	9	27
11:15 AM	5	1	9	0	5	4	6	0	4	4	19
11:30 AM	8	1	6	0	1	9	7	0	2	2	18
11:45 AM	12	0	12	0	2	7	6	0	2	2	23
12:00 PM	10	0	10	0	3	7	10	1	2	3	23
12:15 PM	9	1	7	0	3	4	7	0	3	3	17
12:30 PM	15	1	16	0	3	9	6	1	4	5	30
12:45 PM	8	0	8	0	7	8	15	0	2	2	25
1:00 PM	6	0	6	1	1	7	6	0	3	3	21
1:15 PM	6	_	10	0	9	13	19	1	9	7	36
1:30 PM	10	1	11	1	3	9	10	0	4	4	25
1:45 PM	9	0	9	0	2	6	11	0	4	4	21
2:00 PM	14	0	14	0	1	5	9	1	8	6	29
2:15 PM	10	1	11	1	2	4	7	0	2	2	20
2:30 PM	12	0	12	0	5	8	13	0	5	5	30
2:45 PM	11	0	11	0	9	7	13	0	15	15	39
3:00 PM	0	0	0	0	0	0	0	0	0	0	0
Grand Total	196	12	208	3	69	143	215	10	81	91	514
Approach %	94.2	5.8	-	1.4	32.1	66.5		11.0	89.0	-	
Total %	38.1	2.3	40.5	9.0	13.4	27.8	41.8	1.9	15.8	17.7	
All Vehicles (no classification)	196	12	208	3	69	143	215	10	81	91	514
% All Vehicles (no classification)	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0



Count Name: Westworld Site Code: 1 Tu Start Date: 04/13/2021 Page No: 1

			٠		wernen Dala					
		98th Street		Ž	McDowell Mountain Ranch	÷.	~	McDowell Mountain Ranch	- F	
E troyo		Southbound			Westbound			Eastbound		
oran iiiie	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
7:00 AM	8	1	6	5	19	24	1	1	2	35
7:15 AM	22	1	23	11	48	59	0	4	4	86
7:30 AM	28	2	30	11	45	56	3	5	8	94
7:45 AM	26	1	27	2	15	22	0	10	10	59
8:00 AM	14	0	14	5	6	14	2	3	5	33
8:15 AM	7	2	6	3	4	7	0	4	4	20
8:30 AM	16	2	18	4	15	19	0	3	3	40
8:45 AM	8	0	8	2	7	6	1	2	3	20
9:00 AM	1	0	1	0	0	0	0	0	0	1
Grand Total	130	6	139	48	162	210	7	32	39	388
Approach %	93.5	6.5	•	22.9	77.1		17.9	82.1		
Total %	33.5	2.3	35.8	12.4	41.8	54.1	1.8	8.2	10.1	
All Vehicles (no classification)	130	6	139	48	162	210	7	32	39	388
% All Vehicles (no classification)	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0



Count Name: Westworld Site Code: 1 tup Start Date: 04/13/2021 Page No: 1

					vernent Data					
		98th Street		2	McDowell Mountain Ranch	4	2	McDowell Mountain Ranch	to.	
E trayo		Southbound			Westbound			Eastbound		
otalt lille	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
4:00 PM	18	0	18	2	10	12	0	4	4	34
4:15 PM	14	0	14	3	14	17	0	1	1	32
4:30 PM	30	2	32	3	8	11	1	8	9	52
4:45 PM	18	0	18	4	14	18	2	8	10	46
5:00 PM	21	0	21	4	17	21	1	13	14	56
5:15 PM	19	0	19	2	14	16	0	9	9	41
5:30 PM	24	1	25	9	15	21	1	4	5	51
5:45 PM	19	0	19	2	13	15	1	4	5	39
6:00 PM	0	0	0	0	0	0	0	0	0	0
Grand Total	163	3	166	26	105	131	9	48	54	351
Approach %	98.2	1.8	-	19.8	80.2	-	11.1	88.9		
Total %	46.4	0.9	47.3	7.4	29.9	37.3	1.7	13.7	15.4	
All Vehicles (no classification)	163	3	166	26	105	131	9	48	54	351
% All Vehicles (no classification)	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

Intersection Turning Movement Prepared by:





N-S STREET: Thompson Peak Pkwy DATE: 04/10/21 LOCATION: Scottsdale

E-W STREET: McDowell Mountain Ranch DAY: SATURDAY PROJECT# 21-1216-002

	NO	RTHBOU	JND	SO	UTHBOL	JND	E <i>P</i>	STBOU	ND	WE	STBOU	ND	
LANES:	NL 2	NT 2	NR 2	SL 2	ST 2	SR 1	EL 2	ET 2	ER 1	WL 2	WT 2	WR 1	TOTAL
9:00 AM													
9:15 AM													
9:30 AM													
9:45 AM													
10:00 AM	14	111	109	29	162	3	5	3	22	126	9	24	617
10:15 AM	25	116	93	35	119	2	5	3	19	124	11	30	582
10:30 AM	22	110	92	23	151	4	9	6	24	134	11	17	603
10:45 AM	28	99	110	26	124	2	5	7	25	132	6	30	594
11:00 AM	31	124	123	30	137	5	4	7	11	152	14	38	676
11:15 AM	18	85	110	21	141	4	3	12	32	141	7	25	599
11:30 AM	20	99	115	26	158	3	8	10	25	150	8	21	643
11:45 AM	26	99	115	30	143	3	6	6	15	116	9	35	603
12:00 PM	17	110	112	35	144	4	7	19	14	131	7	16	616
12:15 PM	25	83	140	28	115	5	4	8	24	133	10	24	599
12:30 PM	20	94	113	21	123	3	3	7	26	120	4	25	559
12:45 PM	30	132	130	34	107	6	3	9	19	129	2	33	634
1:00 PM	19	123	113	28	128	2	4	13	30	119	8	26	613
1:15 PM	25	111	110	29	102	1	4	7	29	114	8	20	560
1:30 PM	28	130	150	22	122	6	2	8	20	111	9	22	630
1:45 PM	27	97	91	30	102	4	3	4	20	120	6	15	519
2:00 PM	30	106	136	24	108	4	2	10	18	96	16	19	569
2:15 PM	24	94	102	25	103	6	3	11	19	106	15	13	521
2:30 PM	26	90	116	25	114	1	4	8	20	87	2	15	508
2:45 PM	26	85	129	19	106	5	2	12	21	107	2	20	534
TOTAL	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
Volumes	481	2098	2309	540	2509	73	86	170	433	2448	164	468	11779
Approach %	9.84	42.92	47.24	17.30	80.37	2.34	12.48	24.67	62.84	79.48	5.32	15.19	-
App/Depart	4888	/	2652	3122	/	5390	689	/	3019	3080	/	718	
	k Hr Beg	gins at:	1100	AM									-

PEAK

Volumes 95 407 463 107 579 15 21 35 83 559 38 119 2521 Approach % 9.84 42.18 47.98 15.26 82.60 2.14 15.11 25.18 59.71 78.07 5.31 16.62

PEAK HR.

FACTOR: 0.868 0.937 0.739 0.877 0.932

CONTROL: Signal

COMMENT 1:

GPS: 33.629211, -111.863290

Intersection Turning Movement Prepared by:





N-S STREET: Thompson Peak Pkwy DATE: 04/11/21 LOCATION: Scottsdale

E-W STREET: McDowell Mountain Ranch DAY: SUNDAY PROJECT# 21-1216-003

	NO	RTHBO	JND	SO	UTHBOU	JND	EA	STBOU	ND	WE	STBOU	ND	
LANEC	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
LANES:	2	2	2	2	2	1	2	2	1	2	2	1	
9:00 AM													
9:15 AM													
9:30 AM													
9:45 AM						_	_	_			_		
10:00 AM	22	84	78	13	99	3	5	6	16	104	3	17	450
10:15 AM	15	82	89	10	87	6	4	9	11	108	4	23	448
10:30 AM	13	88	88	18	133	4	4	9	19	109	5	19	509
10:45 AM	12	98	97	20	99	3	4	9	17	114	12	25	510
11:00 AM	15	82	95	15	116	0	7	4	16	111	4	20	485
11:15 AM	18	97	93	30	113	3	3	2	12	111	4	11	497
11:30 AM	15	83	105	19	92	1	7	7	13	104	4	20	470
11:45 AM	12	76	107	17	116	2	1	7	21	121	8	18	506
12:00 PM	10	74	103	16	91	8	6	5	15	103	5	21	457
12:15 PM	21	84	115	20	111	4	6	5	14	105	1	15	501
12:30 PM	23	99	101	17	122	5	6	4	19	83	5	15	499
12:45 PM	19	103	102	19	97	2	3	5	14	99	8	18	489
1:00 PM	15	118	107	13	89	4	0	8	15	109	6	20	504
1:15 PM	21	105	117	21	94	4	4	3	15	90	9	13	496
1:30 PM	27	91	81	21	96	6	7	6	28	89	6	15	473
1:45 PM	20	100	109	23	84	4	5	5	14	96	1	17	478
2:00 PM	14	86	103	16	99	3	4	5	23	95	4	17	469
2:15 PM	15	83	83	16	104	5	6	6	15	90	4	21	448
2:30 PM	16	76	97	16	119	2	2	8	13	92	3	16	460
2:45 PM	19	73	106	18	81	0	1	6	24	67	2	15	412
TOTAL	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
Volumes	342	1782	1976	358	2042	69	85	119	334	2000	98	356	9561
Approach %	8.34	43.46	48.20	14.50	82.71	2.79	15.80	22.12	62.08	81.50	3.99	14.51	
App/Depart	4100	/	2223	2469	/	4376	538	/	2453	2454	1	509	
	ak Hr Beg	nins at:	1030					•			•		

AM Peak Hr Begins at: 1030 AM

PEAK

Volumes 58 365 373 83 461 10 18 24 64 445 25 75 2001 Approach % 7.29 45.85 46.86 14.98 83.21 1.81 16.98 22.64 60.38 81.65 4.59 13.76

PEAK HR.

FACTOR: 0.957 0.894 0.828 0.902 0.981

CONTROL: Signal

COMMENT 1:

GPS: 33.629211, -111.863290

Intersection Turning Movement Prepared by:





N-S STREET: Thompson Peak Pkwy DATE: 04/13/21 LOCATION: Scottsdale

E-W STREET: McDowell Mountain Ranch DAY: TUESDAY PROJECT# 21-1216-001

	NC	RTHBO	UND	SC	OUTHBO	UND	E	ASTBOL	JND	W	ESTBO	JND	
LANES:	NL 2	NT 2	NR 2	SL 2	ST 2	SR 1	EL 2	ET 2	ER 1	WL 2	WT 2	WR 1	TOTAL
6:00 AM 6:15 AM 6:30 AM 6:45 AM 7:00 AM 7:15 AM 7:30 AM 8:00 AM 8:15 AM 8:30 AM 9:00 AM 9:15 AM 9:30 AM 9:45 AM 10:00 AM 10:15 AM 10:30 AM 10:45 AM	22 34 37 18 10 12 18 16	45 75 136 114 67 93 95 87	53 81 130 122 77 127 119 128	18 15 25 23 18 36 43 44	105 160 127 142 110 120 117 112	1 2 3 5 7 6 4 4	2 2 5 6 5 4 1 2	5 10 15 10 6 10 14 11	21 30 36 34 25 24 26 25	168 148 170 114 121 117 171 163	7 25 25 11 4 6 15 14	20 16 34 26 23 25 38 28	467 598 743 625 473 580 661 634

TOTAL	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
Volumes	167	712	837	222	993	32	27	81	221	1172	107	210	4781
Approach %	9.73	41.49	48.78	17.80	79.63	2.57	8.21	24.62	67.17	78.71	7.19	14.10	
App/Depart	1716	/	949	1247		2386	329	/	1140	1489	/	306	

AM Peak Hr Begins at: 715 AM

PEAK

Volumes 99 392 410 81 539 17 18 41 125 553 65 99 2439 Approach % 10.99 43.51 45.50 12.72 84.62 2.67 9.78 22.28 67.93 77.13 9.07 13.81

PEAK HR.

FACTOR: 0.743 0.900 0.821 0.783 0.821

CONTROL: Signal

COMMENT 1:

GPS: 33.629211, -111.863290

Intersection Turning Movement



N-S STREET: Thompson Peak Pkwy

DATE: 04/13/21

LOCATION: Scottsdale

E-W STREET: McDowell Mountain Ranch

CONTROL:

GPS:

COMMENT 1: 0

Signal

33.629211, -111.863290

DAY: TUESDAY

PROJECT# 21-1216-001

	NO	RTHBO	JND	SO	UTHBOU	JND	EA	ASTBOU	ND	W	ESTBOU	ND	
LANES:	NL 2	NT 2	NR 2	SL 2	ST 2	SR 1	EL 2	ET 2	ER 1	WL 2	WT 2	WR 1	TOTAL
1:00 PM 1:15 PM 1:30 PM 1:45 PM 2:00 PM 2:15 PM 2:30 PM 2:45 PM 3:00 PM 3:15 PM 3:30 PM 3:45 PM 4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM	25 24 19 29 28 31 26 26	130 124 133 123 143 126 135 128	131 130 116 135 144 141 163 124	28 27 28 37 27 36 24 24	136 120 151 127 130 123 140 115	5 1 3 0 4 3 3	3 9 4 1 6 2 4 3	9 9 11 4 6 10 10 4	15 18 21 32 33 20 29 18	110 95 120 97 112 85 113 75	8 6 6 3 10 4 10 4	27 32 20 31 27 16 21 24	627 595 632 619 670 597 678 548
6:00 PM 6:15 PM 6:30 PM 6:45 PM	NL NL	NT	NR	SL 24	ST		EL	ET	ER I	VL		WR I	TOTAL
TOTAL Volumes	208	1042	1084	231	1042	SR 22	32	63	186	807	WT 51	198	4966
Approach %	8.91	44.64	46.44	17.84	80.46	1.70	11.39	22.42	66.19	76.42	4.83	18.75	7,00
App/Depart	2334	/	1272	1295	/	2035	281	/	1378	1056	/	281	
PM Pea	k Hr Be	gins at:	445	PM									
PEAK Volumes Approach %	114 9.31	527 43.06	583 47.63		520 79.51		13 8.28		114 72.61	407 76.94	27 5.10	95 17.96	2564
PEAK HR. FACTOR:		0.944	I		0.979	I		0.872			0.888	I	0.945



Count Name: Westworld Sife Code: 2 Sa Start Date: 04/10/2021 Page No: 1

					אווווון אוסאפווופווו טמומ					
		Southbound Approach	_	1	Access Road			Thompson Peak Parkway	^	
F		Southbound			Westbound			Northbound		
Start lime	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
10:00 AM	0	0	0	0	3	3	229	21	250	253
10:15 AM	0	0	0	0	5	5	232	14	246	251
10:30 AM	0	0	0	0	4	4	216	12	228	232
10:45 AM	0	0	0	0	9	9	228	15	243	249
11:00 AM	0	0	0	0	10	10	263	22	285	295
11:15 AM	0	0	0	0	2	2	216	8	224	226
11:30 AM	0	0	0	0	4	4	239	12	251	255
11:45 AM	0	0	0	0	3	3	239	17	256	259
12:00 PM	0	0	0	0	6	6	221	28	249	258
12:15 PM	0	0	0	0	7	7	233	16	249	256
12:30 PM	0	0	0	0	10	10	223	13	236	246
12:45 PM	0	0	0	0	2	2	271	21	292	294
1:00 PM	0	0	0	0	3	3	259	19	278	281
1:15 PM	0	0	0	0	1	1	251	8	259	260
1:30 PM	0	0	0	0	5	5	298	6	307	312
1:45 PM	0	0	0	0	9	9	213	8	221	227
2:00 PM	0	0	0	0	6	9	258	11	269	278
2:15 PM	0	0	0	0	5	5	221	8	229	234
2:30 PM	0	0	0	0	0	0	228	4	232	232
2:45 PM	0	0	0	0	11	11	231	6	240	251
3:00 PM	0	0	0	0	0	0	0	0	0	0
Grand Total	0	0	0	0	105	105	4769	275	5044	5149
Approach %	0.0	0.0	-	0.0	100.0	-	94.5	5.5	-	
Total %	0.0	0.0	0.0	0.0	2.0	2.0	92.6	5.3	98.0	
All Vehicles (no classification)	0	0	0	0	105	105	4769	275	5044	5149
% All Vehicles (no classification)				•	100.0	100.0	100.0	100.0	100.0	100.0



Count Name: Westworld Site Code: 2 Su Start Date: 04/11/2021 Page No: 1

		I urning Mov	lurning Movement Data			
	Acce	Access Road		Thompson Peak Parkway		
T Too	Wes	Westbound		Northbound		
otali ilile	Right	App. Total	Thru	Right	App. Total	Int. Total
10:00 AM	2	2	183	8	191	193
10:15 AM	1	1	188	3	191	192
10:30 AM	2	2	187	4	191	193
10:45 AM	2	2	205	4	209	211
11:00 AM	0	0	196	7	203	203
11:15 AM	1	1	203	11	214	215
11:30 AM	3	3	203	24	227	230
11:45 AM	1	1	192	13	205	206
12:00 PM	4	4	183	9	189	193
12:15 PM	2	2	219	9	225	227
12:30 PM	3	3	225	7	232	235
12.45 PM	4	4	213	3	216	220
1:00 PM	1	1	240	2	242	243
1:15 PM	3	3	245	12	257	260
1:30 PM	2	2	196	26	222	224
1:45 PM	10	10	217	14	231	241
2:00 PM	4	4	196	4	200	204
2:15 PM	1	1	186	3	189	190
2:30 PM	1	1	192	2	194	195
2:45 PM	3	3	204	2	206	209
Grand Total	50	50	4073	161	4234	4284
Approach %	100.0	-	96.2	3.8	-	-
Total %	1.2	1.2	95.1	3.8	98.8	-
All Vehicles (no classification)	50	50	4073	161	4234	4284
% All Vehicles (no classification)	100.0	100.0	100.0	100.0	100.0	100.0



Count Name: Westworld Site Code: 2 Tu Start Date: 04/13/2021 Page No: 1

				וווווט ואוסעקוווקווו חמומ			•	
	Southbou	Southbound Approach	Accei	Access Road		Thompson Peak Parkway		
F	Sour	Southbound	Wes	Westbound		Northbound		
Start line	Left	App. Total	Right	App. Total	Thru	Right	App. Total	Int. Total
7:00 AM	0	0	1	1	123	17	140	141
7:15 AM	0	0	9	9	200	48	248	254
7:30 AM	0	0	17	17	275	26	334	351
7:45 AM	0	0	3	3	248	12	260	263
8:00 AM	0	0	-	1	163	10	173	174
8:15 AM	0	0	4	4	221	21	242	246
8:30 AM	0	0	11	11	227	17	244	255
8:45 AM	0	0	2	2	176	10	186	188
*** BREAK ***	,							
4:00 PM	0	0	9	9	277	17	294	300
4:15 PM	0	0	9	9	278	12	290	296
4:30 PM	0	0	5	5	242	26	268	273
4:45 PM	0	0	7	7	296	28	324	331
5:00 PM	0	0	19	19	275	26	301	320
5:15 PM	0	0	9	9	271	21	292	298
5:30 PM	0	0	7	7	304	17	321	328
5:45 PM	0	0	3	3	258	32	290	293
6:00 PM	0	0	0	0	0	0	0	0
Grand Total	0	0	104	104	3834	373	4207	4311
Approach %	0.0	•	100.0		91.1	8.9		
Total %	0.0	0.0	2.4	2.4	88.9	8.7	97.6	
All Vehicles (no classification)	0	0	104	104	3834	373	4207	4311
% All Vehicles (no classification)	•		100.0	100.0	100.0	100.0	100.0	100.0



Count Name: Westworld Site Code: 3 Sa Start Date: 04/10/2021 Page No: 1

	_	OM BIIIIINI	ייפווופווו טמומ			_
		Thompson Peak Parkway	son Peak Parkway	Aco	Access Rd	
i i i i i i i i i i i i i i i i i i i		Southbound		Eas	Eastbound	
Start Time	Thru	Right	App. Total	Right	App. Total	Int. Total
10:00 AM	297	1	298	10	10	308
10:15 AM	251	0	251	8	8	259
10:30 AM	292	-	293	2	2	300
10:45 AM	275	4	279	19	19	298
11:00 AM	298	8	301	34	\$	335
11:15 AM	334	-	335	13	13	348
11:30 AM	328	ε	331	10	10	341
11:45 AM	281	5	286	5	5	291
12:00 PM	279	ε	282	11	11	293
12:15 PM	283	2	285	19	19	304
12:30 PM	274	6	283	18	18	301
12:45 PM	265	0	265	5	5	270
1:00 PM	276	0	276	6	6	285
1:15 PM	252	4	256	11	11	267
1:30 PM	245	2	247	5	5	252
1:45 PM	258	0	258	15	15	273
2:00 PM	228	0	228	26	26	254
2:15 PM	238	2	240	11	11	251
2:30 PM	207	4	211	5	5	216
2:45 PM	243	0	243	7	2	250
3:00 PM	0	0	0	0	0	0
Grand Total	5404	44	5448	248	248	5696
Approach %	99.2	0.8	-	100.0	-	-
Total %	94.9	0.8	95.6	4.4	4.4	•
All Vehicles (no classification)	5404	44	5448	248	248	5696
% All Vehicles (no classification)	100.0	100.0	100.0	100.0	100.0	100.0



Count Name: Westworld Site Code: 3 Su Start Date: 04/11/2021 Page No: 1

			אפווופווו חמומ			
		SB Thompson Peak Parkway		Acce	Access Road	
F		Southbound		Eas	Eastbound	
Start IIme	Thru	Right	App. Total	Right	App. Total	Int. Total
10:00 AM	216	2	218	9	5	223
10:15 AM	213	1	214	8	8	222
10:30 AM	255	2	257	l	1	258
10:45 AM	246	0	246	0	0	246
11:00 AM	230	0	230	2	2	232
11:15 AM	240	3	243	4	4	247
11:30 AM	211	1	212	10	10	222
11:45 AM	261	ε	264	24	24	288
12:00 PM	218	0	218	8	ю	221
12:15 PM	235	0	235	8	8	243
12:30 PM	231	1	232	2	2	234
12:45 PM	210	0	210	2	7	217
1:00 PM	216	0	216	4	4	220
1:15 PM	201	0	201	ε	ဇ	204
1:30 PM	202	1	203	9	9	209
1:45 PM	198	4	202	12	12	214
2:00 PM	219	0	219	8	8	227
2:15 PM	201	4	205	9	5	210
2:30 PM	217	2	219	9	5	224
2:45 PM	173	0	173	12	12	185
Grand Total	4393	24	4417	129	129	4546
Approach %	99.5	0.5	-	100.0	-	-
Total %	99.96	0.5	97.2	2.8	2.8	-
All Vehicles (no classification)	4393	24	4417	129	129	4546
% All Vehicles (no classification)	100.0	100.0	100.0	100.0	100.0	100.0



Count Name: Westworld Site Code: 3 Tu Start Date: 04/13/2021 Page No: 1

		In I	urning Movement Data	Jata			
		SB Thompson Peak Parkway	•		Access Road		
F T T T T T T T T T T T T T T T T T T T		Southbound			Eastbound		
Start Hille	Thru	Right	App. Total	Left	Right	App. Total	Int. Total
7:00 AM	270	2	272	0	9	9	278
7:15 AM	343	1	344	0	32	32	376
7:30 AM	311	11	322	0	55	55	377
7:45 AM	312	3	315	0	16	16	331
8:00 AM	244	0	244	0	4	4	248
8:15 AM	273	3	276	l	10	11	287
8:30 AM	322	8	325	0	41	41	366
8:45 AM	320	4	324	0	5	5	329
9:00 AM	0	0	0	0	0	0	0
*** BREAK ***	•			-	ī	-	•
4:00 PM	254	9	260	0	21	21	281
4:15 PM	247	0	247	0	8	8	255
4:30 PM	278	4	282	0	10	10	292
4:45 PM	267	9	273	0	20	20	293
5:00 PM	273	3	276	0	31	31	307
5:15 PM	237	1	238	0	25	25	263
5:30 PM	265	5	270	0	15	15	285
5:45 PM	220	10	230	0	6	6	239
6:00 PM	0	0	0	0	0	0	0
Grand Total	4436	62	4498	1	308	309	4807
Approach %	98.6	1.4	_	6.0	2.66	-	
Total %	92.3	1.3	93.6	0:0	6.4	6.4	
All Vehicles (no classification)	4436	62	4498	1	308	309	4807
% All Vehicles (no classification)	100.0	100.0	100.0	100.0	100.0	100.0	100.0

APPENDIX B: CRASH DATA		

Westworld Sports Fields Traffic Study

Crash Summary Westworld Sports Fields, 2017 thru 2019

IncidentID	IncidentDateTime	IncidentYear	CollisionManner	LightCondition 1	TotalUnits	TotalMotorists	TotalNonMotorists	InjurySeverity	Onroad	CrossingFeature	Offset	Latitude	Longitude
Thompson F	Peak Parkway and Mo	cDowell Mounta	in Ranch Road										
3214046	4/4/2017 14:12	2017	6	1	2	2	0	1	Mcdowell Mountain Ra Rd	07 THOMPSON PEAK PKWY	-0.005	33.6291591	-111.86325
3290763	10/24/2017 20:29	2017	2	4	2	2	0	1	Mcdowell Mountain Ra Rd	07 THOMPSON PEAK PKWY	0	33.6292069	-111.86331
3296739	11/1/2017 12:50	2017	2	1	2	4	0	1	Mcdowell Mountain Ra Rd	07 THOMPSON PEAK PKWY	0.0009	33.6292166	-111.86332
3246375	6/20/2017 12:25	2017	4	1	2	2	0	2	Thompson Peak Pkwy	07 MCDOWELL MOUNTAIN RARD	-0.008	33.6291288	-111.8634
3188568	1/21/2017 16:20	2017	4	1	2	2	0	2	Mcdowell Mountain Ra Rd	07 THOMPSON PEAK PKWY	-0.015	33.6293625	-111.8635
3270188	8/15/2017 7:13	2017	6	1	2	2	0	1	Thompson Peak Pkwy	07 MCDOWELL MOUNTAIN RARD	-0.019	33.6290118	-111.86354
3324904	12/16/2017 14:47	2017	4	1	2	3	0	3	Thompson Peak Pkwy	07 MCDOWELL MOUNTAIN RARD	-0.024	33.6289631	-111.8636
3429176	10/4/2018 12:27	2018	6	1	2	2	0	1	MCDOWELL MOUNTAIN RARD	Thompson Peak Pkwy	30	33.6291547	-111.86325
3348154	2/14/2018 10:09	2018	2	1	2	3	0	3	MCDOWELL MOUNTAIN RARD	Thompson Peak Pkwy	0	33.6292119	-111.86332
3382002	5/18/2018 17:25	2018	3	1	2	2	0	1	MCDOWELL MOUNTAIN RARD	Thompson Peak Pkwy	0	33.6292119	-111.86332
3359576	4/11/2018 7:22	2018	1	1	1	1	0	1	MCDOWELL MOUNTAIN RARD	Thompson Peak Pkwy	-108	33.6294221	-111.86357
3537628	5/15/2019 8:06	2019	6	1	2	2	0	1	MCDOWELL MOUNTAIN RARD	Thompson Peak Pkwy	-25	33.6291642	-111.86326
3504246	2/4/2019 15:07	2019	2	1	2	3	0	1	MCDOWELL MOUNTAIN RARD	Thompson Peak Pkwy	0	33.6292119	-111.86332
3550403	7/6/2019 15:23	2019	1	1	1	1	0	1	MCDOWELL MOUNTAIN RARD	Thompson Peak Pkwy	0	33.6292119	-111.86332
3552730	7/19/2019 15:06	2019	2	1	2	2	0	2	MCDOWELL MOUNTAIN RARD	Thompson Peak Pkwy	0	33.6292119	-111.86332
3584180	9/13/2019 13:44	2019	6	1	2	3	0	1	MCDOWELL MOUNTAIN RARD	Thompson Peak Pkwy	0	33.6292119	-111.86332
3504265	2/7/2019 15:14	2019	6	1	2	3	0	1	17 THOMPSON PEAK PKWY	McDowell Mountain Ra Rd	25	33.6292598	-111.86326
3535854	6/4/2019 17:57	2019	2	1	2	2	0	1	MCDOWELL MOUNTAIN RARD	Thompson Peak Pkwy	-200	33.6296011	-111.86378
Northbound	l Thompson Peak Par	kway and Aqua	tic Center / Park Acc	ess Road									
3289712	10/13/2017 13:10	2017	1	1	1	1	0	1	Thompson Peak Pkwy	07 MCDOWELL MOUNTAIN RARD	-0.095	33.6282334	-111.86447
	Thompson Peak Par	•	<u> </u>	ess Road									
3366141	4/11/2018 8:30	2018	2	1	2	2	0	2	17 THOMPSON PEAK PKWY	McDowell Mountain Ra Rd	-1000	33.6272671	-111.86564

APPENDIX C: DATA	RAW CITY OF SCOT	TSDALE SOCCER FIEL	D TRIP GENERATION

				94th	St & Bell Rd. Mu	ulti-Use Fields						
				Land	d Use: (488) Soc	cer Complex						
# of Fields	Weekday Daily		Weekday AM F	eak	Weekday PM P	Peak	Saturday Da	ily	Saturday Peak	Hour	Sunday Peak H	our
6	Enter	Exit	Enter	Exit	Enter	Exit	Enter	Exit	Enter	Exit	Enter	Exit
Dir. Dist.	50%	50%	53%	47%	47%	53%	50%	50%	48%	52%	46%	54%
ITE Trip Rate	71.3	3	1.	77	16	5.9	404.88		40).1	28	.78
Trips	214	214	6	5	48	54	1215	1215	115	125	79	93
	428		1	1	1	01	24	129	24	41	1	73

				94th	St & Bell Rd. Mu	ulti-Use Fields						
			Actual Co	unt Data (10/14	4-10/18 2020 - S	ports Complex #	#1 Bell & Prince	ss)				
# of Fields	**Weekday Daily		Weekday AM F	eak	Weekday PM P	eak	Saturday Da	ily	Saturday Peak	Hour	Sunday Peak H	our
6	Enter	Exit	Enter	Exit	Enter	Exit	Enter	Exit	Enter	Exit	Enter	Exit
Dir. Dist.	50%	50%	53%	47%	47%	53%	50%	50%	48%	52%	46%	54%
Count Data	120			8	3	34	3	05	4	7	3	88
Trips	360	360	25	23	96	108	915	915	135	147	105	123
	720		4	8	2	04	18	330	2	82	2	28

^{**} Thur only



	4	×	7	~	X	1	7	1	~	6	K	*
Lane Group	SEL	SET	SER	NWL	NWT	NWR	NEL	NET	NER	SWL	SWT	SWR
Lane Configurations	44	44	7	44	^	7	44	44	77	44	^	7
Traffic Volume (vph)	21	35	83	559	38	119	95	407	463	107	579	15
Future Volume (vph)	21	35	83	559	38	119	95	407	463	107	579	15
Satd. Flow (prot)	3433	3539	1583	3433	3539	1583	3433	3539	2787	3433	3539	1583
Flt Permitted	0.950			0.950			0.950			0.950		
Satd. Flow (perm)	3433	3539	1583	3433	3539	1583	3433	3539	2787	3433	3539	1583
Satd. Flow (RTOR)			88			141			503			148
Lane Group Flow (vph)	23	38	90	608	41	129	103	442	503	116	629	16
Turn Type	Prot	NA	pm+ov	Prot	NA	pm+ov	Prot	NA	pm+ov	Prot	NA	pm+ov
Protected Phases	3	8	1	7	4	5	1	6	7	5	2	3
Permitted Phases			8			4			6			2
Total Split (s)	11.0	14.0	26.0	26.0	29.0	13.0	26.0	55.0	26.0	13.0	42.0	11.0
Total Lost Time (s)	5.6	6.0	6.0	5.6	6.0	6.0	6.0	5.7	5.6	6.0	5.7	5.6
Act Effct Green (s)	5.2	7.0	27.5	21.4	22.2	31.4	19.7	54.8	81.9	6.7	41.8	47.1
Actuated g/C Ratio	0.05	0.06	0.25	0.20	0.21	0.29	0.18	0.51	0.76	0.06	0.39	0.44
v/c Ratio	0.14	0.17	0.19	0.89	0.06	0.23	0.16	0.25	0.23	0.54	0.46	0.02
Control Delay	51.1	49.6	7.2	59.3	34.2	3.8	37.9	16.6	0.7	59.0	27.4	0.1
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	51.1	49.6	7.2	59.3	34.2	3.8	37.9	16.6	0.7	59.0	27.4	0.1
LOS	D	D	Α	E	С	Α	D	В	Α	Е	С	Α
Approach Delay		24.6			48.8			11.0			31.6	
Approach LOS		С			D			В			С	
Queue Length 50th (ft)	8	13	1	213	12	0	30	97	0	40	183	0
Queue Length 95th (ft)	21	31	37	#311	27	29	55	133	14	70	240	0
Internal Link Dist (ft)		599			1080			675			507	
Turn Bay Length (ft)	300		175	250		175	225		225	250		250
Base Capacity (vph)	171	262	472	684	754	547	635	1795	2213	222	1369	776
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.13	0.15	0.19	0.89	0.05	0.24	0.16	0.25	0.23	0.52	0.46	0.02

Cycle Length: 108 Actuated Cycle Length: 108

Offset: 6 (6%), Referenced to phase 2:SWT and 6:NET, Start of Green

Control Type: Actuated-Coordinated

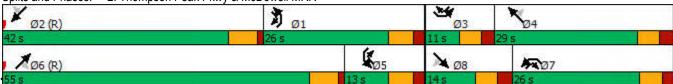
Maximum v/c Ratio: 0.89 Intersection Signal Delay: 28.2 Intersection Capacity Utilization 57.5%

Intersection LOS: C ICU Level of Service B

Analysis Period (min) 15

95th percentile volume exceeds capacity, queue may be longer.

Queue shown is maximum after two cycles.



Intersection						
Int Delay, s/veh	1.2					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	LDL	र्भ	1	7	Y	ODIT
Traffic Vol, veh/h	2	25	17	66	14	1
Future Vol, veh/h	2	25	17	66	14	1
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-		Stop -	None
Storage Length	_	-	_	0	0	-
Veh in Median Storage,		0	0	-	0	_
Grade, %	, # -	0	0	_	0	_
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	2	27	18	72	15	1
IVIVIIIL FIOW	2	21	10	12	10	ı
Major/Minor N	/lajor1	N	Major2	ľ	Minor2	
Conflicting Flow All	90	0	-	0	49	18
Stage 1	-	-	-	-	18	-
Stage 2	-	-	-	-	31	-
Critical Hdwy	4.12	-	-	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	2.218	-	-	-	3.518	3.318
Pot Cap-1 Maneuver	1505	-	-	-	960	1061
Stage 1	-	-	-	-	1005	-
Stage 2	_	-	_	-	992	_
Platoon blocked, %		-	_	-		
Mov Cap-1 Maneuver	1505	_	-	-	959	1061
Mov Cap-2 Maneuver	-	_	-	_	893	-
Stage 1	_	_	_	_	1004	_
Stage 2	_	_	_	_	992	_
otago 2					002	
Approach	EB		WB		SB	
HCM Control Delay, s	0.5		0		9.1	
HCM LOS					Α	
Minor Lane/Major Mvmt	ł	EBL	EBT	WBT	WBR :	SBLn1
Capacity (veh/h)		1505			-	903
HCM Lane V/C Ratio		0.001	_	-		0.018
HCM Control Delay (s)		7.4	0		_	9.1
HCM Lane LOS		7.4 A	A	-	_	9.1 A
HCM 95th %tile Q(veh)		0	- -	-	-	0.1
Holvi Jour 70ule Q(Vell)		U	_	_		0.1

Intersection						
Int Delay, s/veh	0.5					
Movement	SEL	SER	NEL	NET	SWT	SWR
Lane Configurations	OLL	T T	114	11	^	7
Traffic Vol, veh/h	0	76	0	1016	1235	11
Future Vol, veh/h	0	76	0	1016	1235	11
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	_	0	_	-	_	130
Veh in Median Storage,	, # 0	_	_	0	0	-
Grade, %	0	_	_	0	0	_
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mymt Flow	0	83	0	1104	1342	12
WWWIICTIOW	U	00	U	1104	1042	12
				_		
	Minor2		Major1		Major2	
Conflicting Flow All	-	671	-	0	-	0
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	6.94	-	-	-	-
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	3.32	-	-	-	-
Pot Cap-1 Maneuver	0	399	0	-	-	-
Stage 1	0	-	0	-	-	-
Stage 2	0	-	0	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	_	200				
		399	-	_	-	-
Mov Cap-2 Maneuver	_	399	- -	-	-	-
Mov Cap-2 Maneuver Stage 1	-					- -
Stage 1		-				- - -
	-	-	-	-	-	- - -
Stage 1 Stage 2	-	-	- - -	-	- - -	- - -
Stage 1	-	-	-	-	-	-
Stage 1 Stage 2 Approach HCM Control Delay, s	SE 16.4	-	- - -	-	- - -	-
Stage 1 Stage 2 Approach	- SE	-	- - - NE	-	- - - SW	-
Stage 1 Stage 2 Approach HCM Control Delay, s	SE 16.4	-	- - - NE	-	- - - SW	-
Stage 1 Stage 2 Approach HCM Control Delay, s HCM LOS	SE 16.4 C	-	- - - NE 0	-	- - - SW 0	
Stage 1 Stage 2 Approach HCM Control Delay, s HCM LOS Minor Lane/Major Mvmt	SE 16.4 C	- - - NET	- - - NE 0	-	- - - SW	-
Stage 1 Stage 2 Approach HCM Control Delay, s HCM LOS Minor Lane/Major Mvmt Capacity (veh/h)	SE 16.4 C	- - - NET	- - - NE 0	SWT	SW 0	
Stage 1 Stage 2 Approach HCM Control Delay, s HCM LOS Minor Lane/Major Mvmt Capacity (veh/h) HCM Lane V/C Ratio	SE 16.4 C	- - - NET:	NE 0 SELn1 399 0.207	- - - SWT	- - - SW 0	
Stage 1 Stage 2 Approach HCM Control Delay, s HCM LOS Minor Lane/Major Mvmt Capacity (veh/h) HCM Lane V/C Ratio HCM Control Delay (s)	SE 16.4 C	NET :	NE 0 SELn1 399 0.207 16.4	- - - SWT - -	- - - SW 0	
Stage 1 Stage 2 Approach HCM Control Delay, s HCM LOS Minor Lane/Major Mvmt Capacity (veh/h) HCM Lane V/C Ratio	SE 16.4 C	- - - NET:	NE 0 SELn1 399 0.207	- - - SWT	- - - SW 0	

Intersection						
Int Delay, s/veh	0.1					
		NIVATO	NET	NED	0\4/	OME
Movement	NWL	NWR	NET	NER	SWL	SWT
Lane Configurations	0	7	†		^	^
Traffic Vol, veh/h	0	19	957	59	0	1246
Future Vol, veh/h	0	19	957	59	0	1246
Conflicting Peds, #/hr	0	0	_ 0	_ 0	_ 0	_ 0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	-	0	-	-	-	-
Veh in Median Storage,		-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	21	1040	64	0	1354
Major/Minor N	linar1		Anior1		/aiar?	
	/linor1		Major1		/lajor2	
Conflicting Flow All	-	552	0	0	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	6.94	-	-	-	-
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	3.32	-	-	-	-
Pot Cap-1 Maneuver	0	477	-	-	0	-
Stage 1	0	-	-	-	0	-
Stage 2	0	_	-	-	0	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	_	477	_	-	_	_
Mov Cap-2 Maneuver	_	_	_	_	_	_
Stage 1	_	_	_	_	_	_
Stage 2		_	_	_	_	_
Olaye Z						
Approach	NW		NE		SW	
HCM Control Delay, s	12.9		0		0	
HCM LOS	В					
NA: 1 (NA : NA :	•	NET	NEDA	N A //	OME	
Minor Lane/Major Mvm		NET		WLn1	SWT	
Capacity (veh/h)		-	-		-	
HCM Lane V/C Ratio		-	-	0.043	-	
HCM Control Delay (s)		-	-		-	
HCM Lane LOS		-	-	В	-	
HCM 95th %tile Q(veh)		-	-	0.1	-	

	4	×	1	~	X	1	7	×	~	6	K	*
Lane Group	SEL	SET	SER	NWL	NWT	NWR	NEL	NET	NER	SWL	SWT	SWR
Lane Configurations	44	*	7	44	^	7	44	44	77	77	^	7
Traffic Volume (vph)	18	24	64	445	25	75	58	365	373	83	461	10
Future Volume (vph)	18	24	64	445	25	75	58	365	373	83	461	10
Satd. Flow (prot)	3433	3539	1583	3433	3539	1583	3433	3539	2787	3433	3539	1583
Flt Permitted	0.950			0.950			0.950			0.950		
Satd. Flow (perm)	3433	3539	1583	3433	3539	1583	3433	3539	2787	3433	3539	1583
Satd. Flow (RTOR)			88			141			405			148
Lane Group Flow (vph)	20	26	70	484	27	82	63	397	405	90	501	11
Turn Type	Prot	NA	pm+ov	Prot	NA	pm+ov	Prot	NA	pm+ov	Prot	NA	pm+ov
Protected Phases	3	8	1	7	4	5	1	6	7	5	2	3
Permitted Phases			8			4			6			2
Total Split (s)	11.0	14.0	26.0	26.0	29.0	13.0	26.0	55.0	26.0	13.0	42.0	11.0
Total Lost Time (s)	5.6	6.0	6.0	5.6	6.0	6.0	6.0	5.7	5.6	6.0	5.7	5.6
Act Effct Green (s)	5.2	7.0	24.7	18.8	21.8	31.9	16.9	57.6	82.1	6.5	49.4	55.8
Actuated g/C Ratio	0.05	0.06	0.23	0.17	0.20	0.30	0.16	0.53	0.76	0.06	0.46	0.52
v/c Ratio	0.12	0.11	0.16	0.81	0.04	0.14	0.12	0.21	0.18	0.44	0.31	0.01
Control Delay	50.9	48.8	4.7	54.1	33.1	0.9	37.5	15.3	0.7	55.7	23.1	0.0
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	50.9	48.8	4.7	54.1	33.1	0.9	37.5	15.3	0.7	55.7	23.1	0.0
LOS	D	D	Α	D	С	Α	D	В	Α	E	С	Α
Approach Delay		22.6			45.8			10.1			27.5	
Approach LOS		С			D			В			С	
Queue Length 50th (ft)	7	8	0	166	6	0	19	83	0	31	135	0
Queue Length 95th (ft)	19	23	23	220	20	4	37	119	13	57	188	0
Internal Link Dist (ft)		599			1080			675			507	
Turn Bay Length (ft)	300		175	250		175	225		225	250		250
Base Capacity (vph)	171	262	472	661	812	541	635	1888	2184	222	1620	892
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.12	0.10	0.15	0.73	0.03	0.15	0.10	0.21	0.19	0.41	0.31	0.01

Cycle Length: 108
Actuated Cycle Length: 108

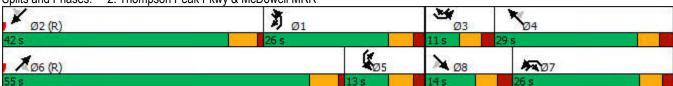
Offset: 6 (6%), Referenced to phase 2:SWT and 6:NET, Start of Green

Control Type: Actuated-Coordinated

Maximum v/c Ratio: 0.81

Intersection Signal Delay: 25.3 Intersection LOS: C
Intersection Capacity Utilization 51.0% ICU Level of Service A

Analysis Period (min) 15



Intersection						
Int Delay, s/veh	4					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	LUL	र्भ	^	7	Y	אופט
Traffic Vol, veh/h	6	13	15	35	41	3
Future Vol, veh/h	6	13	15	35	41	3
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-		-		-	None
Storage Length	_	-	_	0	0	-
Veh in Median Storage	.# -	0	0	-	0	_
Grade, %	-	0	0	_	0	_
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	7	14	16	38	45	3
WWWIICHIOW		17	10	00	10	U
		_				
	Major1		Major2		Minor2	
Conflicting Flow All	54	0	-	0	44	16
Stage 1	-	-	-	-	16	-
Stage 2	-	-	-	-	28	-
Critical Hdwy	4.12	-	-	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	2.218	-	-	-	3.518	3.318
Pot Cap-1 Maneuver	1551	-	-	-	967	1063
Stage 1	-	-	-	-	1007	-
Stage 2	-	-	-	-	995	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1551	-	-	-	962	1063
Mov Cap-2 Maneuver	-	-	-	-	895	-
Stage 1	-	-	-	-	1002	-
Stage 2	-	-	-	-	995	-
Annragah	ΓD		WD		CD	
Approach	EB		WB		SB	
HCM Control Delay, s	2.3		0		9.2	
HCM LOS					Α	
Minor Lane/Major Mvm	nt	EBL	EBT	WBT	WBR S	SBLn1
Capacity (veh/h)		1551	_	-	_	905
HCM Lane V/C Ratio		0.004	-	_	_	0.053
		7.3	0	_	-	9.2
HOW CONTROL Delay (S)						
HCM Control Delay (s) HCM Lane LOS		Α	Α	-	-	Α
		A 0	A -		-	A 0.2

Int Delay, s/veh						
int Dolay, 5/ von	0.3					
Movement	SEL	SER	NEL	NET	SWT	SWR
Lane Configurations	OLL	7	IVLL	^	**	7
Traffic Vol, veh/h	0	40	0	853	942	7
Future Vol, veh/h	0	40	0	853	942	7
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	_	0	_	-	_	130
Veh in Median Storage,	# 0	-	_	0	0	-
Grade, %	0	_	_	0	0	_
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mymt Flow	0	43	0	927	1024	8
IVIVIII I IOW	U	70	U	321	1024	U
Major/Minor N	/linor2	N	/lajor1	N	Major2	
Conflicting Flow All	-	512	-	0	-	0
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	6.94	-	-	-	-
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	_	-	-	-	-	-
, ,	_	3.32	_	_	_	_
Follow-up Hdwy	-	J.JZ		-	-	-
Follow-up Hdwy Pot Cap-1 Maneuver	0	507	0	-	-	-
Pot Cap-1 Maneuver	0					- - -
Pot Cap-1 Maneuver Stage 1	0	507	0	-	-	-
Pot Cap-1 Maneuver Stage 1 Stage 2	0	507 -		- -	- - -	-
Pot Cap-1 Maneuver Stage 1 Stage 2 Platoon blocked, %	0 0 0	507 - -	0	- -	-	- - -
Pot Cap-1 Maneuver Stage 1 Stage 2 Platoon blocked, % Mov Cap-1 Maneuver	0 0 0	507 - - 507	0 0	- - - -	- - - -	- - - -
Pot Cap-1 Maneuver Stage 1 Stage 2 Platoon blocked, % Mov Cap-1 Maneuver Mov Cap-2 Maneuver	0 0 0	507 - - 507	0	- - -	- - - -	- - -
Pot Cap-1 Maneuver Stage 1 Stage 2 Platoon blocked, % Mov Cap-1 Maneuver Mov Cap-2 Maneuver Stage 1	0 0 0	507 - - 507 -	0 0 - -	- - - - -	- - - - -	- - - -
Pot Cap-1 Maneuver Stage 1 Stage 2 Platoon blocked, % Mov Cap-1 Maneuver Mov Cap-2 Maneuver	0 0 0	507 - - 507	0 0	- - - -	- - - -	- - - -
Pot Cap-1 Maneuver Stage 1 Stage 2 Platoon blocked, % Mov Cap-1 Maneuver Mov Cap-2 Maneuver Stage 1	0 0 0	507 - - 507 -	0 0 - -	- - - - -	- - - - -	- - - -
Pot Cap-1 Maneuver Stage 1 Stage 2 Platoon blocked, % Mov Cap-1 Maneuver Mov Cap-2 Maneuver Stage 1	0 0 0	507 - - 507 -	0 0 - -	- - - - -	- - - - -	- - - -
Pot Cap-1 Maneuver Stage 1 Stage 2 Platoon blocked, % Mov Cap-1 Maneuver Mov Cap-2 Maneuver Stage 1 Stage 2 Approach	0 0 0	507 - - 507 -	0 0	- - - - -	-	- - - -
Pot Cap-1 Maneuver Stage 1 Stage 2 Platoon blocked, % Mov Cap-1 Maneuver Mov Cap-2 Maneuver Stage 1 Stage 2 Approach HCM Control Delay, s	0 0 0 - - - - - SE 12.8	507 - - 507 -	0 0 - - - - NE	- - - - -	- - - - - - - - S	- - - -
Pot Cap-1 Maneuver Stage 1 Stage 2 Platoon blocked, % Mov Cap-1 Maneuver Mov Cap-2 Maneuver Stage 1 Stage 2 Approach	0 0 0 - - - - - SE	507 - - 507 -	0 0 - - - - NE	- - - - -	- - - - - - - - S	- - - -
Pot Cap-1 Maneuver Stage 1 Stage 2 Platoon blocked, % Mov Cap-1 Maneuver Mov Cap-2 Maneuver Stage 1 Stage 2 Approach HCM Control Delay, s HCM LOS	0 0 0 - - - - SE 12.8 B	507 - - 507 - -	0 0 - - - - NE 0	-	- - - - - - - SW	- - - -
Pot Cap-1 Maneuver Stage 1 Stage 2 Platoon blocked, % Mov Cap-1 Maneuver Mov Cap-2 Maneuver Stage 1 Stage 2 Approach HCM Control Delay, s HCM LOS Minor Lane/Major Mymt	0 0 0 - - - - SE 12.8 B	507 - 507 - -	0 0 - - - - NE 0	- - - - -	- - - - - - - - S	- - - -
Pot Cap-1 Maneuver Stage 1 Stage 2 Platoon blocked, % Mov Cap-1 Maneuver Mov Cap-2 Maneuver Stage 1 Stage 2 Approach HCM Control Delay, s HCM LOS Minor Lane/Major Mvmt Capacity (veh/h)	0 0 0 - - - - SE 12.8 B	507 - 507 - - - NET \$	0 0 - - - - 0 NE 0	- - - - - - - SWT	- - - - - - SW 0	- - - -
Pot Cap-1 Maneuver Stage 1 Stage 2 Platoon blocked, % Mov Cap-1 Maneuver Mov Cap-2 Maneuver Stage 1 Stage 2 Approach HCM Control Delay, s HCM LOS Minor Lane/Major Mvmt Capacity (veh/h) HCM Lane V/C Ratio	0 0 0 - - - - SE 12.8 B	507 - 507 - - - NET \$	0 0 - - - - 0 NE 0 6ELn1 507 0.086	- - - - - - - SWT	- - - - - - SW 0	- - - -
Pot Cap-1 Maneuver Stage 1 Stage 2 Platoon blocked, % Mov Cap-1 Maneuver Mov Cap-2 Maneuver Stage 1 Stage 2 Approach HCM Control Delay, s HCM LOS Minor Lane/Major Mvmt Capacity (veh/h) HCM Lane V/C Ratio HCM Control Delay (s)	0 0 0 - - - - SE 12.8 B	507 - 507 - - - NET \$	0 0 - - - - NE 0 SELn1 507 0.086 12.8	- - - - - - - - - - -	- - - - - - - SW 0	- - - -
Pot Cap-1 Maneuver Stage 1 Stage 2 Platoon blocked, % Mov Cap-1 Maneuver Mov Cap-2 Maneuver Stage 1 Stage 2 Approach HCM Control Delay, s HCM LOS Minor Lane/Major Mvmt Capacity (veh/h) HCM Lane V/C Ratio	0 0 0 - - - - SE 12.8 B	507 - 507 - - - NET \$	0 0 - - - - 0 NE 0 6ELn1 507 0.086	- - - - - - - SWT	- - - - - - SW 0	- - - -

Intersection						
Int Delay, s/veh	0					
Movement	NWL	NWR	NET	NER	SWL	SWT
Lane Configurations		7	†			^
Traffic Vol, veh/h	0	6	807	46	0	949
Future Vol, veh/h	0	6	807	46	0	949
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	-	0	-	-	-	-
Veh in Median Storage	e, # 0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	7	877	50	0	1032
Major/Minor	Minor1		Aniar1		/oior?	
			Major1		Major2	
Conflicting Flow All	-	464	0	0	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	6.94	-	-	-	-
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	3.32	-	-	-	-
Pot Cap-1 Maneuver	0	545	-	-	0	-
Stage 1	0	-	-	-	0	-
Stage 2	0	-	-	-	0	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	-	545	-	-	-	-
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Approach	NW		NE		SW	
HCM Control Delay, s	11.7		0		0	
HCM LOS	11.7 B		U		U	
I ICIVI LOS	ь					
Minor Lane/Major Mvm	nt	NET	NERN	WLn1	SWT	
Capacity (veh/h)		-	-	545	-	
HCM Lane V/C Ratio		-	-	0.012	-	
HCM Control Delay (s)		-	-	11.7	-	
HCM Lane LOS		-	-	В	-	
HCM 95th %tile Q(veh))	-	-	0	-	

	-	×	1	~	X	*	7	1	~	Ĺ	K	*
Lane Group	SEL	SET	SER	NWL	NWT	NWR	NEL	NET	NER	SWL	SWT	SWR
Lane Configurations	44	*	7	44	*	7	44	^	77	77	^	7
Traffic Volume (vph)	18	41	125	553	65	99	99	392	410	81	539	17
Future Volume (vph)	18	41	125	553	65	99	99	392	410	81	539	17
Satd. Flow (prot)	3433	3539	1583	3433	3539	1583	3433	3539	2787	3433	3539	1583
Flt Permitted	0.950			0.950			0.950			0.950		
Satd. Flow (perm)	3433	3539	1583	3433	3539	1583	3433	3539	2787	3433	3539	1583
Satd. Flow (RTOR)			103			108			446			82
Lane Group Flow (vph)	20	45	136	601	71	108	108	426	446	88	586	18
Turn Type	Prot	NA	pm+ov	Prot	NA	pm+ov	Prot	NA	pm+ov	Prot	NA	pm+ov
Protected Phases	3	8	1	7	4	5	1	6	7	5	2	3
Permitted Phases			8			4			6			2
Total Split (s)	11.0	14.0	15.0	44.0	47.0	13.0	15.0	49.0	44.0	13.0	47.0	11.0
Total Lost Time (s)	5.6	6.0	6.0	5.6	6.0	6.0	6.0	5.7	5.6	6.0	5.7	5.6
Act Effct Green (s)	5.2	8.5	23.0	26.0	33.5	42.4	8.5	55.7	87.4	6.5	53.7	59.0
Actuated g/C Ratio	0.04	0.07	0.19	0.22	0.28	0.35	0.07	0.46	0.73	0.05	0.45	0.49
v/c Ratio	0.14	0.18	0.35	0.81	0.07	0.17	0.44	0.26	0.21	0.47	0.37	0.02
Control Delay	57.3	54.8	15.7	53.5	32.5	4.0	59.3	20.9	0.7	63.4	23.6	0.1
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	57.3	54.8	15.7	53.5	32.5	4.0	59.3	20.9	0.7	63.4	23.6	0.1
LOS	E	D	В	D	С	Α	Е	С	Α	Е	С	Α
Approach Delay		28.6			44.8			15.9			28.0	
Approach LOS		С			D			В			С	
Queue Length 50th (ft)	7	17	21	230	22	0	41	102	0	34	153	0
Queue Length 95th (ft)	21	37	79	275	39	30	72	154	13	62	222	0
Internal Link Dist (ft)		599			1080			675			507	
Turn Bay Length (ft)	300		175	250		175	225		225	250		250
Base Capacity (vph)	154	249	362	1098	1209	605	257	1643	2151	200	1584	823
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.13	0.18	0.38	0.55	0.06	0.18	0.42	0.26	0.21	0.44	0.37	0.02

Cycle Length: 120
Actuated Cycle Length: 120

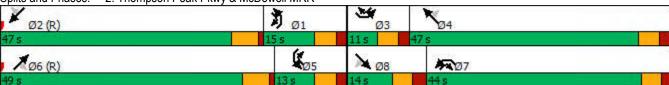
Offset: 71 (59%), Referenced to phase 2:SWT and 6:NET, Start of Green

Control Type: Actuated-Coordinated

Maximum v/c Ratio: 0.81 Intersection Signal Delay: 28.5 Intersection Capacity Utilization 56.3%

Intersection LOS: C ICU Level of Service B

Analysis Period (min) 15



Intersection						
Int Delay, s/veh	3.2					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		4	↑	7	M	
Traffic Vol, veh/h	4	20	34	127	84	5
Future Vol, veh/h	4	20	34	127	84	5
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-		-	None	-	None
Storage Length	_	-	_	0	0	-
Veh in Median Storage	e.# -	0	0	_	0	_
Grade, %	-, "	0	0	_	0	_
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mymt Flow	4	22	37	138	91	5
IVIVIIIL FIOW	4	22	31	130	91	ິວ
Major/Minor	Major1	N	Major2		Minor2	
Conflicting Flow All	175	0	_	0	67	37
Stage 1	_	_	-	_	37	_
Stage 2	_	_	_	_	30	_
Critical Hdwy	4.12	_	_	_	6.42	6.22
Critical Hdwy Stg 1		_	<u>-</u>	_	5.42	- 0.22
Critical Hdwy Stg 1	_	-			5.42	-
	2.218	-			3.518	2 240
Follow-up Hdwy		-	-	-		
Pot Cap-1 Maneuver	1401	-	-	-	938	1035
Stage 1	-	-	-	-	985	-
Stage 2	-	-	-	-	993	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1401	-	-	-	935	1035
Mov Cap-2 Maneuver	-	-	-	-	877	-
Stage 1	-	-	-	-	982	-
Stage 2	-	-	-	-	993	-
Annroach	EB		WB		SB	
Approach						
HCM Control Delay, s	1.3		0		9.6	
HCM LOS					Α	
Minor Lane/Major Mvm	nt	EBL	EBT	WBT	WRR	SBLn1
Capacity (veh/h)		1401		1101	1101(885
HCM Lane V/C Ratio		0.003	_	-	-	0.109
			-	-		
HCM Control Delay (s)		7.6	0	-	-	9.6
HCM Lane LOS	\	A	Α	-	-	Α
HCM 95th %tile Q(veh		0	-	-	-	0.4

Intersection						
Int Delay, s/veh	0.8					
		CED	NITI	NICT	CMT	CMD
Movement	SEL	SER	NEL	NET	SWT	SWR
Lane Configurations	^	100	0	1111	^	17
Traffic Vol, veh/h	0	109	0	1144	1236	17
Future Vol, veh/h	0	109	0	1144	1236	17
Conflicting Peds, #/hr	0	0	_ 0	0	_ 0	_ 0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	-	0	-	-	-	130
Veh in Median Storage,		-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	118	0	1243	1343	18
Majar/Minar	1: O		1-1-1		Anin nO	
	1inor2		//ajor1		Major2	
Conflicting Flow All	-	672	-	0	-	0
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	6.94	-	-	-	-
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	3.32	-	-	-	-
Pot Cap-1 Maneuver	0	398	0	-	-	-
Stage 1	0	-	0	-	-	-
Stage 2	0	-	0	-	-	-
Platoon blocked, %				_	_	-
Mov Cap-1 Maneuver	-	398	_	_	_	_
Mov Cap-2 Maneuver	_	-	_	_	_	_
Stage 1	_	_	_	_	_	_
Stage 2	_	_	_	_	_	_
Olago Z						
Approach	SE		NE		SW	
HCM Control Delay, s	17.8		0		0	
HCM LOS	С					
NA: 1 /NA: NA 4		NET)	OME	OME	
Minor Lane/Major Mvmt		NET S		SWT	SWR	
Capacity (veh/h)		-	000	-	-	
HCM Lane V/C Ratio		-	0.298	-	-	
HCM Control Delay (s)		-	17.8	-	-	
HCM Lane LOS		-	С	-	-	
HCM 95th %tile Q(veh)		-	1.2	-	-	

Intersection						
Int Delay, s/veh	0.2					
Movement	NWL	NWR	NET	NER	SWL	SWT
Lane Configurations	TAVVE	7	†	HEIN	OVVL	↑ ↑
Traffic Vol. veh/h	0	27	1015	129	0	1253
Future Vol, veh/h	0	27	1015	129	0	1253
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	_	0	_	-	_	-
Veh in Median Storage,	,# 0	-	0	_	_	0
Grade, %	0	_	0	_	_	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mymt Flow	0	29	1103	140	0	1362
Wivine Flow		20	1100	110		1002
				_		
	/linor1		Major1		/lajor2	
Conflicting Flow All	-	622	0	0	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	6.94	-	-	-	-
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	3.32	-	-	-	-
Pot Cap-1 Maneuver	0	430	-	-	0	-
Stage 1	0	-	-	-	0	-
Stage 2	0	-	-	-	0	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	-	430	-	-	-	-
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	_	-	-
Stage 2	_	_	_	_	_	-
5g5 _						
Δ	A DAZ				0147	
Approach	NW		NE		SW	
HCM Control Delay, s	14		0		0	
HCM LOS	В					
Minor Lane/Major Mvm	t	NET	NERN	IWLn1	SWT	
Capacity (veh/h)			-	430	-	
HCM Lane V/C Ratio		<u>-</u>		0.068	_	
HCM Control Delay (s)			_	14	_	
HCM Lane LOS		_	_	В	_	
HCM 95th %tile Q(veh)			_	0.2		
HOW Jour Julie Q(Veri)				0.2		

	4	×	1	-	×	(7	*	~	Ĺ	K	*
Lane Group	SEL	SET	SER	NWL	NWT	NWR	NEL	NET	NER	SWL	SWT	SWR
Lane Configurations	44	44	7	44	^	7	44	^	77	44	^	7
Traffic Volume (vph)	13	30	114	407	27	95	114	527	583	124	520	10
Future Volume (vph)	13	30	114	407	27	95	114	527	583	124	520	10
Satd. Flow (prot)	3433	3539	1583	3433	3539	1583	3433	3539	2787	3433	3539	1583
Flt Permitted	0.950			0.950			0.950			0.950		
Satd. Flow (perm)	3433	3539	1583	3433	3539	1583	3433	3539	2787	3433	3539	1583
Satd. Flow (RTOR)			124			103			588			82
Lane Group Flow (vph)	14	33	124	442	29	103	124	573	634	135	565	11
Turn Type	Prot	NA	pm+ov	Prot	NA	pm+ov	Prot	NA	pm+ov	Prot	NA	pm+ov
Protected Phases	3	8	1	7	4	5	1	6	7	5	2	3
Permitted Phases			8			4			6			2
Total Split (s)	11.0	13.0	13.0	38.0	40.0	18.0	13.0	51.0	38.0	18.0	56.0	11.0
Total Lost Time (s)	5.6	6.0	6.0	5.6	6.0	6.0	6.0	5.7	5.6	6.0	5.7	5.6
Act Effct Green (s)	5.1	7.0	14.6	37.8	38.7	52.9	6.8	45.3	88.8	11.8	50.3	55.5
Actuated g/C Ratio	0.04	0.06	0.12	0.32	0.32	0.44	0.06	0.38	0.74	0.10	0.42	0.46
v/c Ratio	0.10	0.16	0.41	0.41	0.03	0.14	0.64	0.43	0.29	0.40	0.38	0.01
Control Delay	56.5	55.7	11.9	35.1	30.5	3.4	70.6	29.0	1.1	54.5	25.0	0.0
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	56.5	55.7	11.9	35.1	30.5	3.4	70.6	29.0	1.1	54.5	25.0	0.0
LOS	Е	Е	В	D	С	Α	Е	С	Α	D	С	Α
Approach Delay		24.0			29.2			19.6			30.2	
Approach LOS		С			С			В			С	
Queue Length 50th (ft)	5	13	0	148	8	0	49	172	5	51	156	0
Queue Length 95th (ft)	17	31	54	198	21	27	#82	223	24	84	203	0
Internal Link Dist (ft)		599			1080			675			507	
Turn Bay Length (ft)	300		175	250		175	225		225	250		250
Base Capacity (vph)	154	206	304	1081	1141	743	200	1335	2215	343	1483	779
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.09	0.16	0.41	0.41	0.03	0.14	0.62	0.43	0.29	0.39	0.38	0.01

Cycle Length: 120
Actuated Cycle Length: 120

Offset: 76 (63%), Referenced to phase 2:SWT and 6:NET, Start of Green

Control Type: Actuated-Coordinated

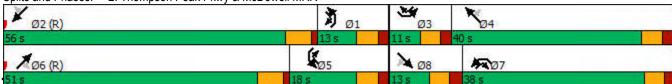
Maximum v/c Ratio: 0.64 Intersection Signal Delay: 24.5 Intersection Capacity Utilization 51.8%

Intersection LOS: C
ICU Level of Service A

Analysis Period (min) 15

95th percentile volume exceeds capacity, queue may be longer.

Queue shown is maximum after two cycles.



Intersection						
Int Delay, s/veh	4.6					
		CDT	MOT	WDD	ODI	ODB
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		ન	<u></u>	7	Y	
Traffic Vol, veh/h	4	35	13	53	88	2
Future Vol, veh/h	4	35	13	53	88	2
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	0	0	-
Veh in Median Storage	e,# -	0	0	-	0	-
Grade, %	_	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	4	38	14	58	96	2
WWW. TOW		00	IT	00	50	_
Major/Minor	Major1	N	Major2		Minor2	
Conflicting Flow All	72	0	-	0	60	14
Stage 1	-	_	-	-	14	-
Stage 2	-	-	-	-	46	-
Critical Hdwy	4.12	_	-	_	6.42	6.22
Critical Hdwy Stg 1	-	_	_	_	5.42	-
Critical Hdwy Stg 2	_	_	_	_	5.42	_
Follow-up Hdwy	2.218	_	_	_		3.318
Pot Cap-1 Maneuver	1528			_	947	1066
•	1320	_	_	<u>-</u>	1009	-
Stage 1	-		-			
Stage 2	-	-	-	-	976	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1528	-	-	-	944	1066
Mov Cap-2 Maneuver	-	-	-	-	881	-
Stage 1	-	-	-	-	1006	-
Stage 2	-	-	-	-	976	-
A norse selb	ΓD		WD		CD	
Approach	EB		WB		SB	
HCM Control Delay, s	8.0		0		9.6	
HCM LOS					Α	
Minor Lane/Major Mvn	nt	EBL	EBT	WBT	WBR	SRI n1
	TIC .	1528	LUI	-	-	
Capacity (veh/h) HCM Lane V/C Ratio						
		0.003	-	-		0.111
HCM Control Delay (s))	7.4	0	-	-	9.6
HCM Lane LOS HCM 95th %tile Q(veh	,	A 0	Α	-	-	A
		^	_	_	_	0.4

Intersection						
Int Delay, s/veh	0.5					
		OED	NIEL	NIET	OME	OWD
Movement	SEL	SER	NEL	NET	SWT	SWR
Lane Configurations		7		^	^	7
Traffic Vol, veh/h	0	86	0	1330	1055	14
Future Vol, veh/h	0	86	0	1330	1055	14
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	-	0	-	-	-	130
Veh in Median Storage,	# 0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	93	0	1446	1147	15
				_		
	/linor2		/lajor1		//ajor2	
Conflicting Flow All	-	574	-	0	-	0
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	6.94	-	-	-	-
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	3.32	-	-	-	-
Pot Cap-1 Maneuver	0	462	0	-	_	-
Stage 1	0	_	0	_	-	_
Stage 2	0	_	0	_	_	_
Platoon blocked, %				_	_	_
Mov Cap-1 Maneuver						
		462	_	_	_	_
May Can 2 Manauyar	-	462	-	-	-	-
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1		-	-		- -	- -
	-	-	-	-	-	- - - -
Stage 1	-	-	-	-	- -	- - -
Stage 1 Stage 2	-	-	- - -	-	- - -	-
Stage 1 Stage 2 Approach	- - - SE	-	- - - NE	-	- - - SW	-
Stage 1 Stage 2 Approach HCM Control Delay, s	- - - SE 14.8	-	- - -	-	- - -	-
Stage 1 Stage 2 Approach	- - - SE	-	- - - NE	-	- - - SW	-
Stage 1 Stage 2 Approach HCM Control Delay, s HCM LOS	SE 14.8	-	- - - NE 0	-	- - - SW 0	-
Stage 1 Stage 2 Approach HCM Control Delay, s	SE 14.8	-	- - - NE	-	- - - SW	-
Stage 1 Stage 2 Approach HCM Control Delay, s HCM LOS	SE 14.8	-	- - NE 0	-	- - - SW 0	-
Stage 1 Stage 2 Approach HCM Control Delay, s HCM LOS Minor Lane/Major Mvmt	SE 14.8	- - - NET S	- - - NE 0	- - - SWT	SW 0	
Stage 1 Stage 2 Approach HCM Control Delay, s HCM LOS Minor Lane/Major Mvmt Capacity (veh/h)	SE 14.8	- - - NET S	NE 0 SELn1 462	SWT	SW 0	-
Stage 1 Stage 2 Approach HCM Control Delay, s HCM LOS Minor Lane/Major Mvmt Capacity (veh/h) HCM Lane V/C Ratio	SE 14.8	- - - NET S	NE 0 SELn1 462 0.202	SWT	- - - SW 0	

Intersection						
Int Delay, s/veh	0.3					
	NWL	NWR	NET	NER	SWL	SWT
Lane Configurations		7	1			^
Traffic Vol, veh/h	0	39	1238	92	0	1069
Future Vol, veh/h	0	39	1238	92	0	1069
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-		-	None	-	None
Storage Length	-	0	-	-	-	-
Veh in Median Storage,	# 0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	42	1346	100	0	1162
NA = : = = /NA: = = =	l!4		4-!4		4-:0	
	linor1		Major1		Major2	
Conflicting Flow All	-	723	0	0	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	6.94	-	-	-	-
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	3.32	-	-	-	-
Pot Cap-1 Maneuver	0	369	-	-	0	-
Stage 1	0	-	-	-	0	-
Stage 2	0	-	-	-	0	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	-	369	-	-	-	-
Mov Cap-2 Maneuver	-	-	-	-	_	-
Stage 1	_	_	_	_	_	_
Stage 2	_	_	_	_	_	_
Olago 2						
Approach	NW		NE		SW	
HCM Control Delay, s	16		0		0	
HCM LOS	С					
Minor Long/Major Mymt		NET	NIEDN	WLn1	SWT	
Minor Lane/Major Mvmt		NET	NEKI		21/1	
Capacity (veh/h)		-	-	369	-	
HCM Lane V/C Ratio		-	-	0.115	-	
HCM Control Delay (s)		-	-	16	-	
HCM Lane LOS		-	-	С	-	
HCM 95th %tile Q(veh)		-	-	0.4	-	

	4	×	1	~	X	*	7	×	~	4	×	*
Lane Group	SEL	SET	SER	NWL	NWT	NWR	NEL	NET	NER	SWL	SWT	SWR
Lane Configurations	44	44	7	44	^	7	44	44	77	44	44	7
Traffic Volume (vph)	27	39	107	561	41	119	118	419	465	107	590	21
Future Volume (vph)	27	39	107	561	41	119	118	419	465	107	590	21
Satd. Flow (prot)	3433	3539	1583	3433	3539	1583	3433	3539	2787	3433	3539	1583
Flt Permitted	0.950			0.950			0.950			0.950		
Satd. Flow (perm)	3433	3539	1583	3433	3539	1583	3433	3539	2787	3433	3539	1583
Satd. Flow (RTOR)			88			141			504			148
Lane Group Flow (vph)	29	42	116	610	45	129	128	455	505	116	641	23
Turn Type	Prot	NA	pm+ov	Prot	NA	pm+ov	Prot	NA	pm+ov	Prot	NA	pm+ov
Protected Phases	3	8	1	7	4	5	1	6	7	5	2	3
Permitted Phases			8			4			6			2
Total Split (s)	11.0	14.0	26.0	26.0	29.0	13.0	26.0	55.0	26.0	13.0	42.0	11.0
Total Lost Time (s)	5.6	6.0	6.0	5.6	6.0	6.0	6.0	5.7	5.6	6.0	5.7	5.6
Act Effct Green (s)	5.2	7.0	27.5	21.4	22.3	31.4	19.7	54.7	81.9	6.7	41.7	47.1
Actuated g/C Ratio	0.05	0.06	0.25	0.20	0.21	0.29	0.18	0.51	0.76	0.06	0.39	0.44
v/c Ratio	0.18	0.18	0.25	0.90	0.06	0.23	0.20	0.25	0.23	0.54	0.47	0.03
Control Delay	51.8	49.8	10.6	59.6	34.3	3.8	38.3	16.7	0.7	59.0	27.5	0.0
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	51.8	49.8	10.6	59.6	34.3	3.8	38.3	16.7	0.7	59.0	27.5	0.0
LOS	D	D	В	Е	С	Α	D	В	Α	Е	С	Α
Approach Delay		25.8			48.9			11.8			31.4	
Approach LOS		С			D			В			С	
Queue Length 50th (ft)	10	14	14	213	13	0	39	100	0	40	187	0
Queue Length 95th (ft)	25	33	56	#314	28	29	66	136	15	70	245	0
Internal Link Dist (ft)		599			1080			675			507	
Turn Bay Length (ft)	300		175	250		175	225		225	250		250
Base Capacity (vph)	171	262	472	684	754	547	635	1793	2212	222	1367	775
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.17	0.16	0.25	0.89	0.06	0.24	0.20	0.25	0.23	0.52	0.47	0.03

Cycle Length: 108 Actuated Cycle Length: 108

Offset: 6 (6%), Referenced to phase 2:SWT and 6:NET, Start of Green

Control Type: Actuated-Coordinated

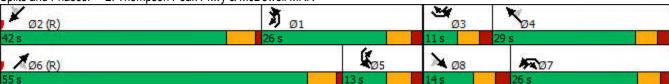
Maximum v/c Ratio: 0.90 Intersection Signal Delay: 28.4 Intersection Capacity Utilization 57.9%

Intersection LOS: C
ICU Level of Service B

Analysis Period (min) 15

95th percentile volume exceeds capacity, queue may be longer.

Queue shown is maximum after two cycles.



Intersection						
Int Delay, s/veh	3.3					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	LDL	€¶	\ <u>\</u>	VVDIC	₩.	אומט
Traffic Vol, veh/h	2	25	T 17	1 84	66	1
Future Vol, veh/h	2	25	17	84	66	1
Conflicting Peds, #/hr	0	0	0	04	00	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	riee -	None	riee -		Stop -	None
Storage Length	-	None -	-	0	0	None -
Veh in Median Storage		0	0	-	0	
Grade, %		0	0	-	0	<u>-</u>
Peak Hour Factor	92	92	92	92	92	92
		92				
Heavy Vehicles, %	2		2	2	2	2
Mvmt Flow	2	27	18	91	72	1
Major/Minor	Major1	N	Major2		Minor2	
Conflicting Flow All	109	0	-	0	49	18
Stage 1	-	-	_	-	18	-
Stage 2	_	_	_	_	31	_
Critical Hdwy	4.12	_	_	_	6.42	6.22
Critical Hdwy Stg 1	-	_	_	_	5.42	-
Critical Hdwy Stg 2	_	_	_	_	5.42	_
Follow-up Hdwy	2.218	_	_	_	3.518	
Pot Cap-1 Maneuver	1481	_	_	_	960	1061
Stage 1	1701	_	_	_	1005	1001
Stage 2	-	<u>-</u>	-	_	992	<u>-</u>
Platoon blocked, %	-	-	-	-	332	-
	1481		-		050	1061
Mov Cap-1 Maneuver		-	-	-	959	1001
Mov Cap-2 Maneuver	-	-	-	-	893	-
Stage 1	-	-	-	-	1004	-
Stage 2	-	-	-	-	992	-
Approach	EB		WB		SB	
HCM Control Delay, s	0.6		0		9.4	
HCM LOS	0.0				Α.	
I IOWI LOO					٨	
Minor Lane/Major Mvm	nt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)		1481	-	-	-	895
HCM Lane V/C Ratio		0.001	-	-	-	0.081
HCM Control Delay (s)		7.4	0	-	-	9.4
HCM Lane LOS		Α	Α	-	-	Α
HCM 95th %tile Q(veh))	0	-	-	-	0.3

Intersection						
Int Delay, s/veh	1					
Movement	SEL	SER	NEL	NET	SWT	SWR
	SEL		INEL			
Lane Configurations	0	124	^	^	^	7
Traffic Vol, veh/h	0	131	0	1090	1259	24
Future Vol, veh/h	0	131	0	1090	1259	24
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	-	0	-	-	-	130
Veh in Median Storage	e, # 0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mymt Flow	0	142	0	1185	1368	26
IVIVIII(I IOW	U	172	U	1100	1300	20
Major/Minor	Minor2	N	Major1	1	Major2	
Conflicting Flow All	_	684		0		0
Stage 1	_	-	_	-	_	-
Stage 2	_	_	_	_	_	_
Critical Hdwy	_	6.94	_	_	_	
Critical Hdwy Stg 1	_	0.94	_		_	-
			-	-		
Critical Hdwy Stg 2	-	2 22	-	-	-	-
Follow-up Hdwy	-	3.32	-	-	-	-
Pot Cap-1 Maneuver	0	391	0	-	-	-
Stage 1	0	-	0	-	-	-
Stage 2	0	-	0	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	-	391	-	-	-	-
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	_	_	_	_	_	_
Stage 2	<u>_</u>	_	_	_	_	<u>_</u>
Olago Z						
Approach	SE		NE		SW	
HCM Control Delay, s	19.4		0		0	
HCM LOS	C					
TIOWI LOO	<u> </u>					
Minor Lane/Major Mvn	nt	NET S	SELn1	SWT	SWR	
Capacity (veh/h)		-		-	_	
HCM Lane V/C Ratio		_	0.364	_	_	
HCM Control Delay (s	\	_	19.4	_	_	
HCM Lane LOS			C	_	_	
HCM 95th %tile Q(veh			1.6	_	_	
HOW BOTH WITH MICHAEL)	-	1.0	-	-	

Intersection						
Int Delay, s/veh	0.2					
Movement	NWL	NWR	NET	NER	SWL	SWT
Lane Configurations	TAAAC	7	1	TILIT	OVE	↑ ↑
Traffic Vol, veh/h	0	34	980	110	0	1283
Future Vol, veh/h	0	34	980	110	0	1283
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	Stop -	None	riee -	None	riee -	None
Storage Length	-	None 0	-	None -	-	INUITE
Veh in Median Storage	e, # 0	-	0			0
Grade, %	e, # 0 0	-	0	-	<u>-</u>	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	37	1065	120	0	1395
Major/Minor	Minor1	N	Major1	N	Major2	
Conflicting Flow All	_	593	0	0		_
Stage 1	_	-	-	-	_	_
Stage 2	_	_	_	_	_	_
Critical Hdwy	_	6.94	_	_	_	_
Critical Hdwy Stg 1	_	- 0.5	_	<u>-</u>	_	_
Critical Hdwy Stg 2	_	_	_	_	_	
Follow-up Hdwy	_	3.32	_	_	_	_
Pot Cap-1 Maneuver	0	449	_	-	0	
Stage 1	0	449	-	<u>-</u>	0	-
	0		-		0	
Stage 2	U	-	-	-	U	-
Platoon blocked, %		440	-	-		-
Mov Cap-1 Maneuver		449	-	-	-	-
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Approach	NW		NE		SW	
HCM Control Delay, s	13.7		0		0	
HCM LOS	13.7 B		U		U	
I IOIVI LOS	D					
Minor Lane/Major Mvn	nt	NET	NERN	IWLn1	SWT	
Capacity (veh/h)		-	-	449	-	
HCM Lane V/C Ratio		-	-	0.082	-	
HCM Control Delay (s))	-	_	13.7	-	
HCM Lane LOS		_	-	В	_	
HCM 95th %tile Q(veh)	_	_	0.3	-	
2000 2000 2000	,					

Intersection						
Int Delay, s/veh	2.8					
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	1	LDI	7	^	7	7
Traffic Vol, veh/h	74	17	32	83	18	34
Future Vol, veh/h	74	17	32	83	18	34
Conflicting Peds, #/hr	0	0	0	0	0	0
	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	- -	None
Storage Length	_	-	150	-	0	0
Veh in Median Storage,		_	-	0	0	-
Grade, %	0	_	_	0	0	_
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	80	18	35	90	20	37
WWITE I IOW	00	10	00	30	20	01
	ajor1		Major2	N	/linor1	
Conflicting Flow All	0	0	98	0	204	49
Stage 1	-	-	-	-	89	-
Stage 2	-	-	-	-	115	-
Critical Hdwy	-	-	4.14	-	6.84	6.94
Critical Hdwy Stg 1	-	-	-	-	5.84	-
Critical Hdwy Stg 2	-	-	-	-	5.84	-
Follow-up Hdwy	-	-	2.22	-	3.52	3.32
Pot Cap-1 Maneuver	-	-	1493	-	766	1009
Stage 1	-	-	-	-	924	-
Stage 2	-	-	-	-	897	_
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1493	-	748	1009
Mov Cap-2 Maneuver	-	_	-	-	750	-
Stage 1	-	_	_	-	924	-
Stage 2	_	_	_	_	876	_
2.532					5.0	
			1.4			
Approach	EB		WB		NB	
HCM Control Delay, s	0		2.1		9.1	
HCM LOS					Α	
Minor Lane/Major Mvmt	1	NBLn11	VBLn2	EBT	EBR	WBL
Capacity (veh/h)			1009	-		1493
HCM Lane V/C Ratio		0.026		_		0.023
HCM Control Delay (s)		9.9	8.7	_	_	7.5
HCM Lane LOS		A	A	_	_	A
HCM 95th %tile Q(veh)		0.1	0.1	_	_	0.1

Intersection						
Int Delay, s/veh	4.8					
Movement	SEL	SER	NEL	NET	SWT	SWR
Lane Configurations	*	7		र्स	†	7
Traffic Vol, veh/h	55	15	51	76	11	13
Future Vol, veh/h	55	15	51	76	11	13
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	0	-	-	-	150
Veh in Median Storage	e, # 0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	60	16	55	83	12	14
					•=	• •
		_		_		
	Minor2		Major1		Major2	
Conflicting Flow All	205	12	26	0	-	0
Stage 1	12	-	-	-	-	-
Stage 2	193	-	-	-	-	-
Critical Hdwy	6.42	6.22	4.12	-	-	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy		3.318		-	-	-
Pot Cap-1 Maneuver	783	1069	1588	-	-	-
Stage 1	1011	-	-	-	-	-
Stage 2	840	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	755	1069	1588	-	-	-
Mov Cap-2 Maneuver	755	-	-	-	-	-
Stage 1	975	-	-	_	-	-
Stage 2	840	-	-	-	-	-
Ŭ						
A	05		NE		CVA	
Approach	SE		NE_		SW	
HCM Control Delay, s	9.8		3		0	
HCM LOS	Α					
Minor Lane/Major Mvn	nt	NEL	NET	SELn1	SELn2	SWT
Capacity (veh/h)		1588			1069	-
HCM Lane V/C Ratio		0.035		0.079		_
HCM Control Delay (s)		7.3	0	10.2	8.4	_
HCM Lane LOS		7.5 A	A	В	Α	_
HCM 95th %tile Q(veh)	0.1	-	0.3	0	_
HOW JOHN JOHN Q(VEH	1	0.1		0.5	U	

	4	×	1	¥	×	*	7	×	~	4	K	*
Lane Group	SEL	SET	SER	NWL	NWT	NWR	NEL	NET	NER	SWL	SWT	SWR
Lane Configurations	44	*	7	44	^	7	44	^	77	44	^	7
Traffic Volume (vph)	23	27	85	447	28	75	75	375	375	83	470	14
Future Volume (vph)	23	27	85	447	28	75	75	375	375	83	470	14
Satd. Flow (prot)	3433	3539	1583	3433	3539	1583	3433	3539	2787	3433	3539	1583
Flt Permitted	0.950			0.950			0.950			0.950		
Satd. Flow (perm)	3433	3539	1583	3433	3539	1583	3433	3539	2787	3433	3539	1583
Satd. Flow (RTOR)			92			141			408			148
Lane Group Flow (vph)	25	29	92	486	30	82	82	408	408	90	511	15
Turn Type	Prot	NA	pm+ov	Prot	NA	pm+ov	Prot	NA	pm+ov	Prot	NA	pm+ov
Protected Phases	3	8	1	7	4	5	1	6	7	5	2	3
Permitted Phases			8			4			6			2
Total Split (s)	11.0	14.0	26.0	26.0	29.0	13.0	26.0	55.0	26.0	13.0	42.0	11.0
Total Lost Time (s)	5.6	6.0	6.0	5.6	6.0	6.0	6.0	5.7	5.6	6.0	5.7	5.6
Act Effct Green (s)	5.2	7.0	27.3	18.9	19.7	28.6	19.5	57.6	82.1	6.5	44.6	49.9
Actuated g/C Ratio	0.05	0.06	0.25	0.18	0.18	0.26	0.18	0.53	0.76	0.06	0.41	0.46
v/c Ratio	0.15	0.13	0.20	0.81	0.05	0.16	0.13	0.22	0.18	0.44	0.35	0.02
Control Delay	51.4	49.0	6.8	54.1	34.7	1.0	37.6	15.4	0.7	55.7	24.6	0.1
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	51.4	49.0	6.8	54.1	34.7	1.0	37.6	15.4	0.7	55.7	24.6	0.1
LOS	D	D	Α	D	С	Α	D	В	Α	Е	С	Α
Approach Delay		22.8			45.8			10.7			28.5	
Approach LOS		С			D			В			С	
Queue Length 50th (ft)	8	10	0	167	8	0	24	85	0	31	139	0
Queue Length 95th (ft)	22	25	37	221	22	4	46	122	14	57	192	0
Internal Link Dist (ft)		599			1080			675			507	
Turn Bay Length (ft)	300		175	250		175	225		225	250		250
Base Capacity (vph)	171	262	475	661	753	497	635	1886	2184	222	1460	813
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.15	0.11	0.19	0.74	0.04	0.16	0.13	0.22	0.19	0.41	0.35	0.02

Cycle Length: 108
Actuated Cycle Length: 108

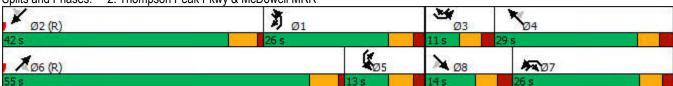
Offset: 6 (6%), Referenced to phase 2:SWT and 6:NET, Start of Green

Control Type: Actuated-Coordinated

Maximum v/c Ratio: 0.81

Intersection Signal Delay: 25.7 Intersection LOS: C
Intersection Capacity Utilization 51.3% ICU Level of Service A

Analysis Period (min) 15



mersection						
Intersection Int Delay, s/veh	4.1					
		EST	MOT	14/55	051	000
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		4	<u></u>	7	Y	
Traffic Vol, veh/h	6	13	15	50	54	3
Future Vol, veh/h	6	13	15	50	54	3
Conflicting Peds, #/hr	0	0	0	0	0	0
	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	0	0	-
Veh in Median Storage,	# -	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	7	14	16	54	59	3
Major/Minor	oio-1		/oic-O		Miner	
	ajor1		Major2		Minor2	40
Conflicting Flow All	70	0	-	0	44	16
Stage 1	-	-	-	-	16	-
Stage 2	-	-	-	-	28	-
	4.12	-	-	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
. ,	2.218	-	-	-	3.518	
Pot Cap-1 Maneuver	1531	-	-	-	967	1063
Stage 1	-	-	-	-	1007	-
Stage 2	-	-	-	-	995	-
Platoon blocked, %		-	-	-		
	1531	-	-	-	962	1063
Mov Cap-2 Maneuver	_	-	-	_	895	-
Stage 1	-	-	_	_	1002	_
Stage 2	_	_	_	_	995	_
2.030 2					300	
Approach	EB		WB		SB	
HCM Control Delay, s	2.3		0		9.3	
					Α	
HCM LOS						
HCM LOS						
		FRI	FRT	WRT	WRR	SRI n1
Minor Lane/Major Mvmt		EBL 1531	EBT	WBT	WBR	
Minor Lane/Major Mvmt Capacity (veh/h)		1531	-	-	-	903
Minor Lane/Major Mvmt Capacity (veh/h) HCM Lane V/C Ratio		1531 0.004	-	-	-	903 0.069
Minor Lane/Major Mvmt Capacity (veh/h) HCM Lane V/C Ratio HCM Control Delay (s)		1531 0.004 7.4	- - 0	- - -	- - -	903 0.069 9.3
Minor Lane/Major Mvmt Capacity (veh/h) HCM Lane V/C Ratio		1531 0.004	-	-	-	903 0.069

Intersection						
Int Delay, s/veh	0.6					
Movement	SEL	SER	NEL	NET	SWT	SWR
Lane Configurations	JEE	7		44	^	7
Traffic Vol, veh/h	0	86	0	909	963	18
Future Vol, veh/h	0	86	0	909	963	18
Conflicting Peds, #/hr		0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-		-		-	None
Storage Length	-	0	_	-	_	130
Veh in Median Storag		-	-	0	0	-
Grade, %	0	-	_	0	0	_
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	93	0	988	1047	20
		33		, , ,		_5
NA = : = =/NA:==	N4: 0		A-!- A		4-1. 0	
Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	-	524	-	0	-	0
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	6.94	-	-	-	-
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	3.32	-	-	-	-
Pot Cap-1 Maneuver	0	498	0	-	-	-
Stage 1	0	-	0	-	-	-
Stage 2	0	-	0	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver		498	-	-	-	-
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Approach	SE		NE		SW	
HCM Control Delay, s			0		0	
•			U		U	
HCM LOS	В					
Minor Lane/Major Mvi	mt	NET S	SELn1	SWT	SWR	
Capacity (veh/h)		-	498	-	-	
HCM Lane V/C Ratio		-	0.188	-	-	
HCM Control Delay (s	s)	-	13.9	-	-	
HCM Lane LOS		-	В	-	-	
HCM 95th %tile Q(vel	h)	-	0.7	-	-	

Intersection						
Int Delay, s/veh	0.1					
Movement	NWL	NWR	NET	NER	SWL	SWT
Lane Configurations		7	†			44
Traffic Vol, veh/h	0	18	824	85	0	981
Future Vol, veh/h	0	18	824	85	0	981
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	- -	None	-	None	-	None
Storage Length	_	0	_	-	_	-
Veh in Median Storage	e,# 0	-	0	_	_	0
Grade, %	0	<u>-</u>	0	<u>-</u>	_	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	20	896	92	0	1066
MINIMI FIOM	U	20	090	92	U	1000
Major/Minor	Minor1	N	Major1	N	/lajor2	
Conflicting Flow All	-	494	0	0	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	_	6.94	_	_	_	-
Critical Hdwy Stg 1	-	-	_	-	_	-
Critical Hdwy Stg 2	_	_	_	_	_	-
Follow-up Hdwy	_	3.32	-	_	-	_
Pot Cap-1 Maneuver	0	521	_	_	0	_
Stage 1	0	-	_	_	0	_
Stage 2	0	_	_	_	0	_
Platoon blocked, %			_	_	•	_
Mov Cap-1 Maneuver	_	521	_	_	_	_
Mov Cap 1 Maneuver		-	_	_	_	_
Stage 1	_	_	_	_	_	_
Stage 2		_	_	_	_	_
Staye 2	-	-	-	-	-	
Approach	NW		NE		SW	
HCM Control Delay, s	12.2		0		0	
HCM LOS	В		•		•	
Minor Lane/Major Mvr	nt	NET	NERN	IWLn1	SWT	
Capacity (veh/h)		-	-	521	-	
HCM Lane V/C Ratio		-	-	0.038	-	
HCM Control Delay (s)	-	-	12.2	-	
HCM Lane LOS		-	-	В	-	
HCM 95th %tile Q(veh	1)	-	-	0.1	-	

Intersection						
Int Delay, s/veh	3.1					
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	†		7	^	7	7
Traffic Vol, veh/h	54	13	24	49	16	29
Future Vol, veh/h	54	13	24	49	16	29
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	150	-	0	0
Veh in Median Storage	, # 0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	59	14	26	53	17	32
Major/Minor N	Major1	N	Major?	, a	/linor1	
			Major2			27
Conflicting Flow All	0	0	73	0	145	37
Stage 1	-	-	-	-	66 79	-
Stage 2	-	-	4.14	-	6.84	6.94
Critical Hdwy	-	-	4.14	-	5.84	
Critical Hdwy Stg 1		-	-	-	5.84	-
Critical Hdwy Stg 2	-	-	2.22	-	3.52	3.32
Follow-up Hdwy		-	1525		833	1027
Pot Cap-1 Maneuver	-	-	1020	-	949	1027
Stage 1	-	-	-	-		
Stage 2	-	-	-	-	935	-
Platoon blocked, %	-	-	1505	-	010	1007
Mov Cap-1 Maneuver	-	-	1525	-	819	1027
Mov Cap-2 Maneuver	-	-	-	-	799	-
Stage 1	-	-	-	-	949	-
Stage 2	-	-	-	-	919	-
Approach	EB		WB		NB	
HCM Control Delay, s	0		2.4		9	
HCM LOS					A	
Minor Lane/Major Mvm	t 1	NBLn11	NBLn2	EBT	EBR	WBL
Capacity (veh/h)			1027	-		1525
HCM Lane V/C Ratio		0.022		_		0.017
HCM Control Delay (s)		9.6	8.6	-	_	7.4
HCM Lane LOS		A	A	-	-	Α
HCM 95th %tile Q(veh)		0.1	0.1	-	-	0.1

Intersection						
Int Delay, s/veh	5.4					
Movement	SEL	SER	NEL	NET	SWT	SWR
Lane Configurations	7	7		4	↑	7
Traffic Vol. veh/h	46	12	39	40	7	11
Future Vol, veh/h	46	12	39	40	7	11
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	0	_	-	_	150
Veh in Median Storage		_	_	0	0	-
Grade, %	0	_	_	0	0	_
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mymt Flow	50	13	42	43	8	12
IVIVIIIL FIOW	50	13	42	40	O	12
Major/Minor N	Minor2	1	Major1	1	Major2	
Conflicting Flow All	135	8	20	0	-	0
Stage 1	8	-	-	-	-	_
Stage 2	127	-	-	_	_	-
Critical Hdwy	6.42	6.22	4.12	_	-	-
Critical Hdwy Stg 1	5.42	-		_	_	_
Critical Hdwy Stg 2	5.42	_	_	_	_	_
Follow-up Hdwy		3.318	2.218	_	_	_
Pot Cap-1 Maneuver	859	1074	1596	_	_	_
Stage 1	1015		-	_	_	_
Stage 2	899	_	_	_	_	_
Platoon blocked, %	000			_	_	_
Mov Cap-1 Maneuver	836	1074	1596	<u>-</u>	_	_
	836	1074	1030	_	-	-
Mov Cap-2 Maneuver	988	-	-	-	-	-
Stage 1		-	-	-	-	-
Stage 2	899	-	-	-	-	-
Approach	SE		NE		SW	
HCM Control Delay, s	9.4		NE 3.6		SW 0	
HCM Control Delay, s HCM LOS	9.4 A	NICI	3.6	DEL =4.4	0	CWT
HCM Control Delay, s HCM LOS Minor Lane/Major Mvm	9.4 A	NEL 1500	3.6 NET 9	SELn1	0 SELn2	SWT
HCM Control Delay, s HCM LOS Minor Lane/Major Mvm Capacity (veh/h)	9.4 A	1596	3.6 NET 9	836	0 SELn2 1074	-
HCM Control Delay, s HCM LOS Minor Lane/Major Mvm Capacity (veh/h) HCM Lane V/C Ratio	9.4 A	1596 0.027	3.6 NET S	836 0.06	0 SELn2 1074 0.012	-
HCM Control Delay, s HCM LOS Minor Lane/Major Mvm Capacity (veh/h) HCM Lane V/C Ratio HCM Control Delay (s)	9.4 A	1596 0.027 7.3	3.6 NET 3	836 0.06 9.6	0 SELn2 1074 0.012 8.4	- - -
HCM Control Delay, s HCM LOS Minor Lane/Major Mvm Capacity (veh/h) HCM Lane V/C Ratio	9.4 A	1596 0.027	3.6 NET S	836 0.06	0 SELn2 1074 0.012	-

	4	×	1	~	X	*	7	×	~	4	×	*
Lane Group	SEL	SET	SER	NWL	NWT	NWR	NEL	NET	NER	SWL	SWT	SWR
Lane Configurations	44	*	7	44	^	7	44	44	77	44	^	7
Traffic Volume (vph)	19	41	129	554	66	99	103	394	410	81	541	18
Future Volume (vph)	19	41	129	554	66	99	103	394	410	81	541	18
Satd. Flow (prot)	3433	3539	1583	3433	3539	1583	3433	3539	2787	3433	3539	1583
Flt Permitted	0.950			0.950			0.950			0.950		
Satd. Flow (perm)	3433	3539	1583	3433	3539	1583	3433	3539	2787	3433	3539	1583
Satd. Flow (RTOR)			102			108			446			82
Lane Group Flow (vph)	21	45	140	602	72	108	112	428	446	88	588	20
Turn Type	Prot	NA	pm+ov	Prot	NA	pm+ov	Prot	NA	pm+ov	Prot	NA	pm+ov
Protected Phases	3	8	1	7	4	5	1	6	7	5	2	3
Permitted Phases			8			4			6			2
Total Split (s)	11.0	14.0	15.0	44.0	47.0	13.0	15.0	49.0	44.0	13.0	47.0	11.0
Total Lost Time (s)	5.6	6.0	6.0	5.6	6.0	6.0	6.0	5.7	5.6	6.0	5.7	5.6
Act Effct Green (s)	5.2	7.1	19.0	26.0	29.5	38.5	8.5	59.7	91.4	6.5	57.7	63.0
Actuated g/C Ratio	0.04	0.06	0.16	0.22	0.25	0.32	0.07	0.50	0.76	0.05	0.48	0.52
v/c Ratio	0.14	0.22	0.42	0.81	0.08	0.19	0.46	0.24	0.20	0.47	0.35	0.02
Control Delay	57.4	56.4	18.0	53.5	33.6	4.2	59.7	19.4	0.6	63.4	21.9	0.1
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	57.4	56.4	18.0	53.5	33.6	4.2	59.7	19.4	0.6	63.4	21.9	0.1
LOS	Е	Е	В	D	С	Α	Е	В	Α	Е	С	Α
Approach Delay		30.4			44.8			15.5			26.5	
Approach LOS		С			D			В			С	
Queue Length 50th (ft)	8	17	25	230	23	0	43	101	0	34	152	0
Queue Length 95th (ft)	22	37	84	276	40	30	73	153	13	62	221	0
Internal Link Dist (ft)		599			1080			675			507	
Turn Bay Length (ft)	300		175	250		175	225		225	250		250
Base Capacity (vph)	154	235	327	1098	1209	557	257	1759	2228	200	1700	872
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.14	0.19	0.43	0.55	0.06	0.19	0.44	0.24	0.20	0.44	0.35	0.02

Cycle Length: 120
Actuated Cycle Length: 120

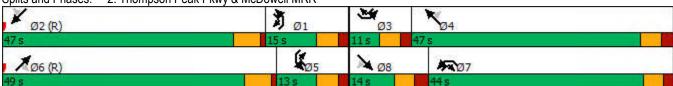
Offset: 71 (59%), Referenced to phase 2:SWT and 6:NET, Start of Green

Control Type: Actuated-Coordinated

Maximum v/c Ratio: 0.81

Intersection Signal Delay: 28.1 Intersection LOS: C
Intersection Capacity Utilization 56.3% ICU Level of Service B

Analysis Period (min) 15



Intersection						
Int Delay, s/veh	3.3					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		ર્ન	†	7	Y	02.1
Traffic Vol, veh/h	4	20	34	130	87	5
Future Vol, veh/h	4	20	34	130	87	5
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	_	None	_	None	-	None
Storage Length	_	-	-	0	0	-
Veh in Median Storage,	# -	0	0	-	0	_
Grade, %	_	0	0	_	0	_
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mymt Flow	4	22	37	141	95	5
IVIVIII(I IOW	7	LL	01	ודו	50	J
				-		
	/lajor1	N	Major2	ı	Minor2	
Conflicting Flow All	178	0	-	0	67	37
Stage 1	-	-	-	-	37	-
Stage 2	-	-	-	-	30	-
Critical Hdwy	4.12	-	-	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	2.218	-	-	-	3.518	3.318
Pot Cap-1 Maneuver	1398	-	-	-	938	1035
Stage 1	-	-	-	-	985	-
Stage 2	-	-	-	-	993	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1398	-	-	_	935	1035
Mov Cap-2 Maneuver	-	_	_	_	877	-
Stage 1	_	_	_	-	982	_
Stage 2	<u>-</u>	_	_	_	993	<u>-</u>
Olugo Z					333	
Approach	EB		WB		SB	
HCM Control Delay, s	1.3		0		9.6	
HCM LOS					Α	
Minor Lane/Major Mvmt		EBL	EBT	WBT	WBR :	SRI n1
				VVDI	- VVDIN	884
Capacity (veh/h) HCM Lane V/C Ratio		1398 0.003	-	-		0.113
		7.6	-	-	-	9.6
HCM Control Delay (s) HCM Lane LOS			0 A	-		9.6 A
HCM 95th %tile Q(veh)		A 0	A -	-	-	0.4
How som whe Q(ven)		U	-	-	-	0.4

Intersection						
Int Delay, s/veh	0.9					
Movement	SEL	SER	NEL	NET	SWT	SWR
Lane Configurations	OLL	JEK ř	INLL	↑ ↑	↑ ↑	3001
Traffic Vol, veh/h	0	118	0	TT 1157	TT 1240	20
Future Vol, veh/h	0	118	0	1157	1240	20
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control		Stop	Free	Free	Free	Free
RT Channelized	Stop -	None	Free -		Free -	None
Storage Length	_	0	-		-	130
Veh in Median Storage		-	-	0	0	130
Grade, %	0		-	0	0	
Peak Hour Factor	92	92	92	92	92	92
		92	92	92	92	92
Heavy Vehicles, %	2					
Mvmt Flow	0	128	0	1258	1348	22
Major/Minor N	Minor2	N	Major1	I	Major2	
Conflicting Flow All	_	674		0		0
Stage 1	-		-	-	-	-
Stage 2	_	-	_	_	_	-
Critical Hdwy	_	6.94	_	_	_	_
Critical Hdwy Stg 1	_	-	_	_	_	_
Critical Hdwy Stg 2	_	_	_	_	_	_
Follow-up Hdwy	_	3.32	_	_	_	_
Pot Cap-1 Maneuver	0	397	0	_	_	_
Stage 1	0	-	0	_	_	_
Stage 2	0	_	0	_	_	_
Platoon blocked, %	U		U	_	_	_
Mov Cap-1 Maneuver	_	397	_	_	_	_
Mov Cap-1 Maneuver	_	-	_	_	<u>-</u>	_
Stage 1		_			_	
Stage 2	_	_	_	_	_	_
Stage 2	_	-	-	_	-	_
Approach	SE		NE		SW	
HCM Control Delay, s	18.3		0		0	
HCM LOS	С					
Minantana (Maria Ma		NICT () TI 4	CMT	CMD	
Minor Lane/Major Mvm	lt		SELn1	2// [SWR	
Capacity (veh/h)		-	397	-	-	
			0 000			
HCM Lane V/C Ratio			0.323	-	-	
HCM Control Delay (s)		-	18.3	-	-	

Intersection						
Int Delay, s/veh	0.2					
Movement	NWL	NWR	NET	NER	SWL	SWT
Lane Configurations	TAAAF	7	†	TILIT	OVE	↑ ↑
Traffic Vol, veh/h	0	29	1019	138	0	1260
Future Vol, veh/h	0	29	1019	138	0	1260
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	Slop -	None	riee -	None	riee -	None
Storage Length	-	None 0	-	None -	-	INUITE
Veh in Median Storage	e, # 0	-	0			0
	e, # 0 0		0			0
Grade, %		- 02		- 02	- 02	
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	32	1108	150	0	1370
Major/Minor	Minor1	N	Major1	N	Major2	
Conflicting Flow All	-	629	0	0	-	_
Stage 1	_	-	-	-	_	_
Stage 2	_	_	_	_	_	_
Critical Hdwy	_	6.94	_	_	_	_
Critical Hdwy Stg 1	<u>-</u>	- 0.5	_	<u>-</u>	_	_
Critical Hdwy Stg 2	_	_	_	_	_	_
Follow-up Hdwy	_	3.32	_	_	_	_
Pot Cap-1 Maneuver	0	425	_	-	0	
Stage 1	0	425	_	_	0	_
	0		-		0	
Stage 2	U	-	-	-	U	-
Platoon blocked, %		405	-	-		-
Mov Cap-1 Maneuver	-	425	-	-	-	-
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Approach	NW		NE		SW	
HCM Control Delay, s	14.1		0		0	
HCM LOS	14.1 B		U		U	
I IOIVI LOS	Б					
Minor Lane/Major Mvm	nt	NET	NERN	IWLn1	SWT	
Capacity (veh/h)		-	-	425	-	
HCM Lane V/C Ratio		-	-	0.074	-	
HCM Control Delay (s)		-	-	14.1	-	
HCM Lane LOS		_	-	В	_	
HCM 95th %tile Q(veh)	_	_	0.2	-	
	,					

Intersection							
Int Delay, s/veh	0.4						
Movement	EBT	EBR	WBL	WBT	NBL	NBR	
	1	LDIX	7	^	NDL.	T T	
Traffic Vol, veh/h	104	3	6	161	3	5	
Future Vol, veh/h	104	3	6	161	3	5	
Conflicting Peds, #/hr	0	0	0	0	0	0	
	Free	Free	Free	Free	Stop	Stop	
RT Channelized	-	None	-	None	-	None	
Storage Length	-	-	150	-	0	0	
Veh in Median Storage, #	# 0	-	-	0	0	-	
Grade, %	0	-	-	0	0	-	
Peak Hour Factor	92	92	92	92	92	92	
Heavy Vehicles, %	2	2	2	2	2	2	
Mvmt Flow	113	3	7	175	3	5	
Major/Minor Ma	ajor1	N	Major2	١	/linor1		ĺ
Conflicting Flow All	0	0	116	0	217	58	
Stage 1	-	-	-	_	115	-	
Stage 2	_	-	_	_	102	-	
Critical Hdwy	-	-	4.14	-	6.84	6.94	
Critical Hdwy Stg 1	-	-	-	-	5.84	-	
Critical Hdwy Stg 2	-	-	_	-	5.84	_	
Follow-up Hdwy	-	-	2.22	-	3.52	3.32	
Pot Cap-1 Maneuver	-	-	1470	-	752	996	
Stage 1	-	-	-	-	897	-	
Stage 2	-	-	-	-	911	-	
Platoon blocked, %	-	-		-			
Mov Cap-1 Maneuver	-	-	1470	-	748	996	
Mov Cap-2 Maneuver	-	-	-	-	753	-	
Stage 1	-	-	-	-	897	-	
Stage 2	-	-	-	-	906	-	
Approach	EB		WB		NB		ĺ
HCM Control Delay, s	0		0.3		9.1		
HCM LOS	U		0.0		Α		
110M 200					,,		
Minor Lane/Major Mvmt	1	NBLn1 N		EBT	EBR	WBL	
Capacity (veh/h)		753	996	-		1470	
UCM Long V//C Datio		0.004	0.005	-	-	0.004	
HCM Lane V/C Ratio							
HCM Control Delay (s)		9.8	8.6	-	-	7.5	
			8.6 A 0	-	- -	7.5 A 0	

Intersection							
Int Delay, s/veh	1.2						
Movement	SEL	SER	NEL	NET	SWT	SWR	J
Lane Configurations	7	7		र्भ	↑	7	
Traffic Vol. veh/h	9	2	9	109	17	3	
Future Vol, veh/h	9	2	9	109	17	3	
Conflicting Peds, #/hr	0	0	0	0	0	0	
Sign Control	Stop	Stop	Free	Free	Free	Free	
RT Channelized	-	None	-		-	None	
Storage Length	0	0	_	-	_	150	
Veh in Median Storage		-	_	0	0	-	
Grade, %	0	_	_	0	0	_	
Peak Hour Factor	92	92	92	92	92	92	
Heavy Vehicles, %	2	2	2	2	2	2	
Mymt Flow	10	2	10	118	18	3	
WWITE I TOW	10	L	10	110	10	J	
	Minor2		Major1		Major2		
Conflicting Flow All	156	18	21	0	-	0	
Stage 1	18	-	-	-	-	-	
Stage 2	138	-	-	-	-	-	
Critical Hdwy	6.42	6.22	4.12	-	-	-	
Critical Hdwy Stg 1	5.42	-	-	-	-	-	
Critical Hdwy Stg 2	5.42	-	-	-	-	-	
Follow-up Hdwy	3.518	3.318	2.218	-	-	-	
Pot Cap-1 Maneuver	835	1061	1595	-	-	-	
Stage 1	1005	-	-	-	-	-	
Stage 2	889	-	-	_	_	-	
Platoon blocked, %				-	-	-	
Mov Cap-1 Maneuver	829	1061	1595	-	-	-	
Mov Cap-2 Maneuver	829	-	-	-	-	-	
Stage 1	998	_	-	_	_	_	
Stage 2	889	_	_	_	_	_	
Olugo Z	505						
Approach	SE		NE		SW		
HCM Control Delay, s	9.2		0.6		0		
HCM LOS	Α						
Minor Lane/Major Mvm	nt	NEL	NET	SFLn1	SELn2	SWT	
Capacity (veh/h)		1595	-	829	1061	-	
HCM Lane V/C Ratio		0.006		0.012		-	
HCM Control Delay (s)		7.3	0	9.4	8.4	_	
HCM Lane LOS		7.3 A	A	9.4 A	0.4 A	_	
HCM 95th %tile Q(veh	١	0	- -	0	0	_	
HOW SOUL WILL WIVEN)	U	-	U	U	_	

	4	×	7	*	X	(7	1	7	6	K	×
Lane Group	SEL	SET	SER	NWL	NWT	NWR	NEL	NET	NER	SWL	SWT	SWR
Lane Configurations	44	44	7	44	^	7	44	44	77	44	^	7
Traffic Volume (vph)	18	32	132	409	29	95	130	537	585	124	528	14
Future Volume (vph)	18	32	132	409	29	95	130	537	585	124	528	14
Satd. Flow (prot)	3433	3539	1583	3433	3539	1583	3433	3539	2787	3433	3539	1583
Flt Permitted	0.950			0.950			0.950			0.950		
Satd. Flow (perm)	3433	3539	1583	3433	3539	1583	3433	3539	2787	3433	3539	1583
Satd. Flow (RTOR)			143			103			571			82
Lane Group Flow (vph)	20	35	143	445	32	103	141	584	636	135	574	15
Turn Type	Prot	NA	pm+ov	Prot	NA	pm+ov	Prot	NA	pm+ov	Prot	NA	pm+ov
Protected Phases	3	8	1	7	4	5	1	6	7	5	2	3
Permitted Phases			8			4			6			2
Total Split (s)	11.0	13.0	13.0	38.0	40.0	18.0	13.0	51.0	38.0	18.0	56.0	11.0
Total Lost Time (s)	5.6	6.0	6.0	5.6	6.0	6.0	6.0	5.7	5.6	6.0	5.7	5.6
Act Effct Green (s)	5.2	7.0	14.7	20.5	21.4	35.7	6.9	62.4	88.7	11.9	67.4	72.7
Actuated g/C Ratio	0.04	0.06	0.12	0.17	0.18	0.30	0.06	0.52	0.74	0.10	0.56	0.61
v/c Ratio	0.14	0.17	0.45	0.76	0.05	0.19	0.71	0.32	0.29	0.40	0.29	0.02
Control Delay	57.3	55.8	11.7	55.8	38.4	4.5	75.3	18.9	1.2	54.4	15.9	0.0
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	57.3	55.8	11.7	55.8	38.4	4.5	75.3	18.9	1.2	54.4	15.9	0.0
LOS	Е	Е	В	Е	D	Α	Е	В	Α	D	В	Α
Approach Delay		24.1			45.7			16.5			22.7	
Approach LOS		С			D			В			С	
Queue Length 50th (ft)	7	13	0	170	10	0	56	146	7	51	131	0
Queue Length 95th (ft)	21	31	57	215	24	30	#102	206	26	84	186	0
Internal Link Dist (ft)		599			1080			675			507	
Turn Bay Length (ft)	300		175	250		175	225		225	250		250
Base Capacity (vph)	154	206	321	926	1002	529	200	1841	2208	343	1988	994
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.13	0.17	0.45	0.48	0.03	0.19	0.70	0.32	0.29	0.39	0.29	0.02

Intersection Summary

Cycle Length: 120 Actuated Cycle Length: 120

Offset: 76 (63%), Referenced to phase 2:SWT and 6:NET, Start of Green

Control Type: Actuated-Coordinated

Maximum v/c Ratio: 0.76
Intersection Signal Delay: 24.5

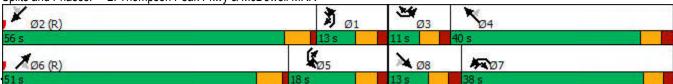
Intersection Signal Delay: 24.5 Intersection LOS: C
Intersection Capacity Utilization 52.1% ICU Level of Service A

Analysis Period (min) 15

95th percentile volume exceeds capacity, queue may be longer.

Queue shown is maximum after two cycles.

Splits and Phases: 2: Thompson Peak Pkwy & McDowell MRR



Intersection						
Int Delay, s/veh	4.6					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	LDL	-€F		VVDIC	₩.	אומט
Traffic Vol, veh/h	4	35	↑	6 7	100	2
Future Vol, veh/h	4	35	13	67	100	2
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	riee -		Stop -	None
Storage Length	-	None -	-	0	0	NONE -
Veh in Median Storage		0	0	-	0	
Grade, %		0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
		92				
Heavy Vehicles, %	2		2	2	100	2
Mvmt Flow	4	38	14	73	109	2
Major/Minor	Major1	N	Major2	1	Minor2	
Conflicting Flow All	87	0		0	60	14
Stage 1	-	-	_	-	14	-
Stage 2	_	_	_	_	46	_
Critical Hdwy	4.12	_	-	-	6.42	6.22
Critical Hdwy Stg 1	-	_	_	-	5.42	-
Critical Hdwy Stg 2	_	_	-	-	5.42	_
Follow-up Hdwy	2.218	_	_	_	3.518	
Pot Cap-1 Maneuver	1509		_	_	947	1066
Stage 1	1005		_	_	1009	-
Stage 2	-	_	-	_	976	-
Platoon blocked, %	-	-	-	-	310	-
	1509		-		044	1066
Mov Cap-1 Maneuver		-	-	-	944	ממטו
Mov Cap-2 Maneuver	-	-	-	-	881	-
Stage 1	-	-	-	-	1006	-
Stage 2	-	-	-	-	976	-
Approach	EB		WB		SB	
HCM Control Delay, s	0.8		0		9.7	
HCM LOS	0.0		U		9.7 A	
I IOWI LOG					А	
Minor Lane/Major Mvm	nt	EBL	EBT	WBT	WBR :	SBLn1
Capacity (veh/h)		1509	-	-	-	884
HCM Lane V/C Ratio		0.003	-	-	-	0.125
HCM Control Delay (s)		7.4	0	-	-	9.7
HCM Lane LOS		Α	Α	-	-	Α
HCM 95th %tile Q(veh))	0	-	-	-	0.4

Intersection						
Int Delay, s/veh	0.8					
Movement	SEL	SER	NEL	NET	SWT	SWR
Lane Configurations		7		44	**	7
Traffic Vol, veh/h	0	126	0	1382	1073	24
Future Vol, veh/h	0	126	0	1382	1073	24
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None		None	-	None
Storage Length	_	0	-	-	-	130
Veh in Median Storage	e,# 0	_	_	0	0	-
Grade, %	0	_	_	0	0	_
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	137	0	1502	1166	26
WWW.CT IOW		101		1002	1100	20
				_		
	Minor2		Major1		Major2	
Conflicting Flow All	-	583	-	0	-	0
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	6.94	-	-	-	-
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	3.32	-	-	-	-
Pot Cap-1 Maneuver	0	456	0	-	-	-
Stage 1	0	-	0	-	-	-
Stage 2	0	-	0	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	_	456	_	_	-	_
Mov Cap-2 Maneuver	_	-	-	_	_	-
Stage 1	-	-	_	-	-	_
Stage 2	_	_	_	_	_	_
Clayo Z						
Approach	SE		NE		SW	
HCM Control Delay, s	16.2		0		0	
HCM LOS	С					
Minor Lane/Major Mvm	nt	NET	SELn1	SWT	SW/B	
Capacity (veh/h)	π	- INE I C		OVVI		
				-	-	
HCM Control Doloy (a)		-	0.3	-	-	
HCM Lang LOS		-	16.2 C	-	-	
HCM Lane LOS HCM 95th %tile Q(veh	\	-	1.2	-	-	
HOW SOUL WILL W(Ven)	-	1.2	-	-	

Intersection						
Int Delay, s/veh	0.3					
Movement	NWL	NWR	NET	NER	SWL	SWT
	INVVL			NER	SVVL	
Lane Configurations	0	7	1254	100	0	1007
Traffic Vol. veh/h	0	50 50	1254 1254	128 128	0	1097 1097
Future Vol, veh/h	0	0	1254	128	0	1097
Conflicting Peds, #/hr						
Sign Control RT Channelized	Stop -	Stop None	Free	Free None	Free	Free None
	-	None 0	-		-	INONE
Storage Length		-	-	-	-	-
Veh in Median Storage			0	-	-	0
Grade, %	0	- 02	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	54	1363	139	0	1192
Major/Minor	Minor1	N	Major1	I.	//ajor2	
Conflicting Flow All	-	751	0	0	-	_
Stage 1	_	751	-	-	_	
Stage 2	-	_	_	-	_	-
Critical Hdwy	_	6.94	_		_	_
Critical Hdwy Stg 1		0.34		_	_	
Critical Hdwy Stg 2	-	_	_	_		
Follow-up Hdwy	-	3.32			_	_
Pot Cap-1 Maneuver	0	353	-	-	0	-
•	0	353	-	<u>-</u>	0	-
Stage 1	0		-	-	0	
Stage 2	U	-	-	-	U	-
Platoon blocked, %		252	-	-		-
Mov Cap-1 Maneuver		353	-	-	-	-
Mov Cap-2 Maneuver		-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Approach	NW		NE		SW	
HCM Control Delay, s			0		0	
HCM LOS	C		U		U	
I TOWN LOO	U					
Minor Lane/Major Mvn	nt	NET	NERN	IWLn1	SWT	
Capacity (veh/h)		-	-		-	
HCM Lane V/C Ratio		-	_	0.154	-	
HCM Control Delay (s))	-	-		-	
HCM Lane LOS	,	-	-	С	-	
HCM 95th %tile Q(veh	1)	-	-	0.5	-	
,						

Intersection						
Int Delay, s/veh	2					
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	1		ሻ	^	7	7
Traffic Vol, veh/h	123	12	22	66	14	25
Future Vol, veh/h	123	12	22	66	14	25
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	- -	None
Storage Length	_	-	150	-	0	0
Veh in Median Storag		_	-	0	0	-
Grade, %	0, # 0	_	_	0	0	_
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	134	13	24	72	15	27
WIVITIL FIOW	134	13	24	12	10	21
Major/Minor	Major1	ı	Major2	N	Minor1	
Conflicting Flow All	0	0	147	0	225	74
Stage 1	-	-	-	-	141	-
Stage 2	-	-	-	-	84	-
Critical Hdwy	-	-	4.14	-	6.84	6.94
Critical Hdwy Stg 1	_	-	-	-	5.84	_
Critical Hdwy Stg 2	_	-	_	_	5.84	-
Follow-up Hdwy	_	_	2.22	_	3.52	3.32
Pot Cap-1 Maneuver	_	_	1432	_	743	973
Stage 1	_	_	-	_	871	-
Stage 2	_	_	_	_	930	-
Platoon blocked, %	_	_		_	- 500	
Mov Cap-1 Maneuver		_	1432	_	730	973
Mov Cap-1 Maneuver		_	1702	_	739	-
Stage 1					871	_
Stage 2	_				914	
Staye 2	-	-	_	-	J 14	-
Approach	EB		WB		NB	
HCM Control Delay, s	0		1.9		9.2	
HCM LOS					Α	
N.4'		NDL 4	NDI O	EST		VA/DI
Minor Lane/Major Mvr	nt I	NBLn11		EBT	EBR	WBL
Capacity (veh/h)		739	973	-		1432
HCM Lane V/C Ratio		0.021		-	-	0.017
HCM Control Delay (s	(a)	10	8.8	-	-	7.6
HCM Lane LOS		В	Α	-	-	Α
HCM 95th %tile Q(veh	1)	0.1	0.1	-	-	0.1

Intersection						
Int Delay, s/veh	3.8					
Movement	SEL	SER	NEL	NET	SWT	SWR
Lane Configurations) T	JLIN.	IVLL	4		OVIK
Traffic Vol, veh/h	40	11	36	86	T	10
Future Vol, veh/h	40	11	36	86	14	10
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	Slop -	None	-	None	-	None
Storage Length	0	0	_	-	_	150
Veh in Median Storage	-	-	_	0	0	130
Grade, %	e, # 0 0			0	0	
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	43	12	39	93	15	11
Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	186	15	26	0	-	0
Stage 1	15	-	-	-	_	-
Stage 2	171	_	_	_		
Critical Hdwy	6.42	6.22	4.12	-	-	_
Critical Hdwy Stg 1	5.42	0.22	7.12			
Critical Hdwy Stg 2	5.42	_	-	-	-	_
Follow-up Hdwy	3.518		2.218	-	-	-
Pot Cap-1 Maneuver	803	1065	1588	-	-	_
•	1008	1003	1500	-	-	-
Stage 1		-	-	-	-	-
Stage 2	859	-	-	-	-	-
Platoon blocked, %	700	4005	4500	-	-	-
Mov Cap-1 Maneuver	782	1065	1588	-	-	-
Mov Cap-2 Maneuver	782	-	-	-	-	-
Stage 1	982	-	-	-	-	-
Stage 2	859	-	-	-	-	-
Approach	SE		NE		SW	
HCM Control Delay, s	9.6		2.2		0	
HCM LOS			2.2		U	
I IOIVI LOS	Α					
Minor Lane/Major Mvn	nt	NEL	NET :	SELn1	SELn2	SWT
Capacity (veh/h)		1588	-		1065	-
HCM Lane V/C Ratio		0.025	-	0.056	0.011	-
HCM Control Delay (s)		7.3	0	9.9	8.4	-
HCM Lane LOS		Α	Α	Α	Α	-
HCM 95th %tile Q(veh)	0.1	-	0.2	0	-



Affidavit of Posting

Re	Required: Signed, Notarized originals. ecommended: E-mail copy to your project coordinator.
Project Under Consider	ration Sign (White) Public Hearing Notice Sign (Red)
Case Number:	405-PA-2021
Project Name: 15514 Location: 9875 E	N. Thompson Peak Parkway and 9809 E. McDowell Mountain Road, and McDowell Mountain Road
Site Posting Date:	May 24th, 2021
Applicant Name:	Joe Phillips
Sign Company Name:	Dynamite Signs
Phone Number:	480-585-3031
Applicant Signature	en posted as indicated by the Project Manager for the case as listed above. 5-24-7021 Date Date Otarized affidavit AND pictures to the Current Planning Office no later than a submittal.
Acknowledged before me this MARYBETH CONRAD Notary Public - Arizor Maricopa County Commission # 59146 My Comm. Expires Oct 25	Notary/Public (12 28 2)

City of Scottsdale -- Current Planning Division

7447 E Indian School Road, Suite 105, Scottsdale, AZ 85251 + Phone: 480-312-7000 + Fax: 480-312-7088





WestWorld Sports Complex Community Involvement Report

- 1. Project Website Link: https://www.scottsdaleaz.gov/construction/project-list/build-mulituse-sports-fields-in-the-area-of-bell-road
- 2. Events Improvement Projects Link: https://www.scottsdaleaz.gov/construction/bell-road-area-sports-and-events-improvement-projects
- 3. Notifications
 - a. White Sign Affidavit
 - b. Copy of Mailer that was Distributed, Maps of Distribution Range, and Address Lists
- 4. Virtual Public Meeting #1: May 19 June 14
 - a. Comments Received
 - b. Emails Received
 - c. Phone Calls
- 5. Red Sign Affidavit





You're Invited to Participate in Virtual Public Meeting for the WestWorld Sports Complex

The WestWorld Sports Complex will be located at the east end of WestWorld in between Thompson Peak Parkway and McDowell Mountain Ranch Road.

The project is being built with funds approved in the 2019 Bond Election project # 53 Build Multiuse Sports Fields in the area of Bell Road. Proposed plans show five multi use fields, parking, lights, restrooms, recreation staff offices, a shaded plaza and walking paths.

To participate visit the project website www.scottsdaleaz.gov/construction/project-

list/build-mulituse-sports-fields-in-the-area-of-bell-road by June 14. Click on the "Virtual Public Meeting" link, watch and listen to the presentation then submit your comments to let us know what you think.

The majority of the land at this location is owned by the Bureau of Reclamation and is managed by the city. In December 2020 the city acquired additional land from the Arizona State Land Department in order to have enough space to build five sports fields. Next the project will move through the public hearing process, to have your comments included, please be sure to participate between now June 14.



PROJECT UPDATE



You're Invited to Participate in Virtual Public Meeting for the WestWorld Sports Complex

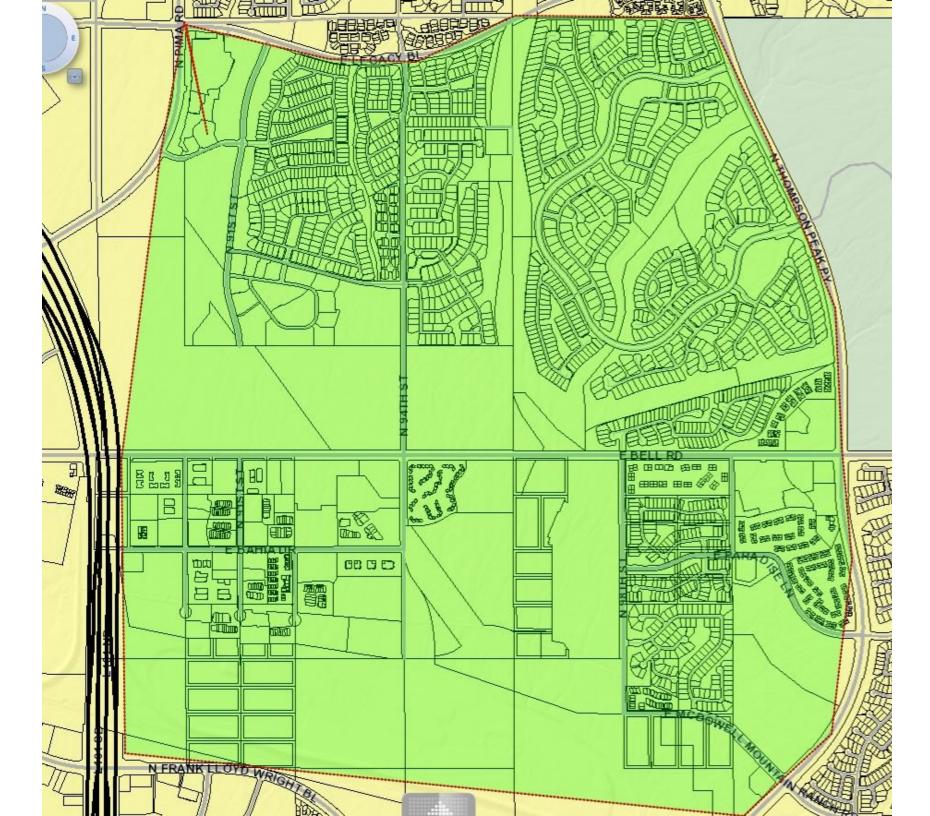
Virtual Public Meeting

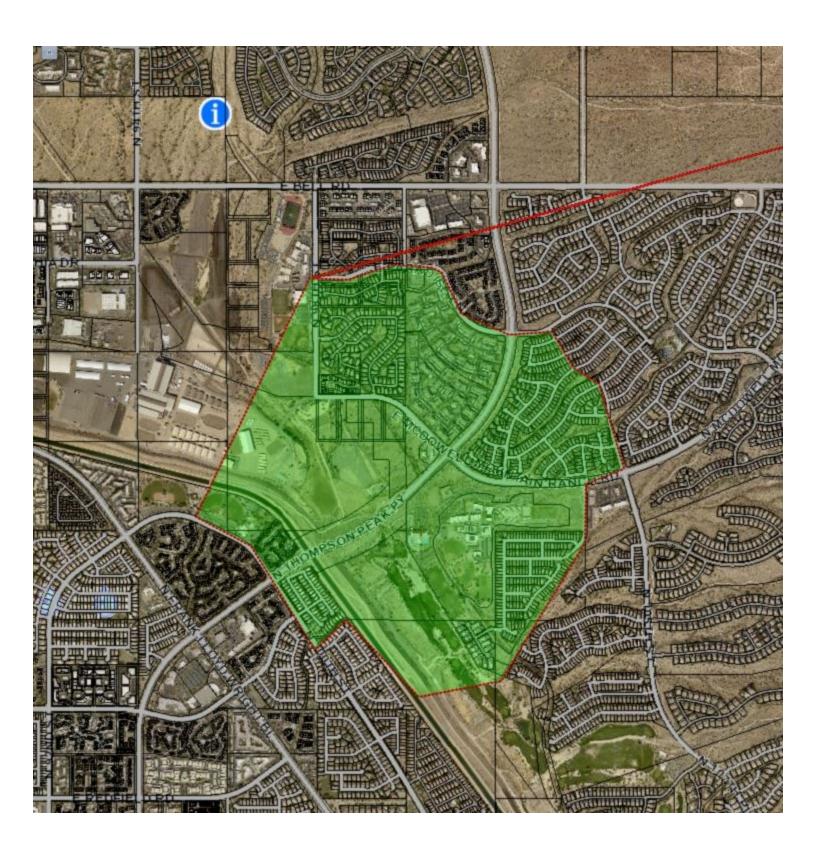
Ends June 14

www.scottsdaleaz.gov/construction/projectlist/build-mulituse-sports-fields-in-the-area-ofbell-road

Questions?

Project Hotline 480-312-4444
Or view the Frequently Asked Questions section of the project website.





Public Comments Received from Virtual Meeting #1 - 15 Total Comments 166-180

Phillips, Joseph

From: Walsh, Erin

Sent: Tuesday, June 1, 2021 12:20 PM

To: Johnson, Ruth

Subject: Build Multiuse Sports Fields in the area of Bell Road Public Comment (response #166)

Build Multiuse Sports Fields in the area of Bell Road Public Comment (response #166)

Survey Information

Site:	ScottsdaleAZ.gov
Page Title:	Build Multiuse Sports Fields in the area of Bell Road Public Comment
URL:	https://www.scottsdaleaz.gov/construction/project-list/build-mulituse-sports-fields-in-the-area-of-bell-road/public-comment
Submission Time/Date:	6/1/2021 12:19:46 PM

Name:	Karl Frye
Address:	9853 E. Bahia Dr.
Email:	karl@fryepracticesales.com
Phone:	(480) 599-6958
Comments:	Will the public be able to have use of the soccer fields next to West World? For instance I would like to have soccer practice versus now having to go to Thunderbird park.

From: Walsh, Erin

Sent: Tuesday, June 1, 2021 3:51 PM

To: Johnson, Ruth

Subject: Build Multiuse Sports Fields in the area of Bell Road Public Comment (response #167)

Build Multiuse Sports Fields in the area of Bell Road Public Comment (response #167)

Survey Information

Site:	ScottsdaleAZ.gov
Page Title:	Build Multiuse Sports Fields in the area of Bell Road Public Comment
URL:	https://www.scottsdaleaz.gov/construction/project-list/build-mulituse-sports-fields-in-the-area-of-bell-road/public-comment
Submission Time/Date:	6/1/2021 3:50:29 PM

Name:	Steve Wright
Address:	17952 N 97th Way
Email:	sfwright1@gmail.com
Phone:	480-236-9999
Comments:	Has any consideration been give to put artificial turf on some of the fields instead of grass for conservation of water, reduction of mnt of fields, consistency of fields, etc? Additionally if and when fields are used for lacrosse or other sports similar back stops/fencing on the end lines would be very useful to have for safety reasons especially for those fields that are back to back one another

From: Walsh, Erin

Sent: Tuesday, June 1, 2021 6:54 PM

To: Johnson, Ruth

Subject: Build Multiuse Sports Fields in the area of Bell Road Public Comment (response #168)

Build Multiuse Sports Fields in the area of Bell Road Public Comment (response #168)

Survey Information

Site:	ScottsdaleAZ.gov
Page Title:	Build Multiuse Sports Fields in the area of Bell Road Public Comment
URL:	https://www.scottsdaleaz.gov/construction/project-list/build-mulituse-sports-fields-in-the-area-of-bell-road/public-comment
Submission Time/Date:	6/1/2021 6:53:09 PM

Name:	Jennifer Stekkinger
Address:	15859 N. Thompson Peak Pkwy
Email:	stekkinegrj@msn.com
Phone:	
Comments:	I am not happy about the traffic and additional noise professional sports bring to the neighborhood. But I dont think my opinion will matter.

From: Walsh, Erin

Sent: Tuesday, June 1, 2021 8:42 PM

To: Johnson, Ruth

Subject: Build Multiuse Sports Fields in the area of Bell Road Public Comment (response #169)

Build Multiuse Sports Fields in the area of Bell Road Public Comment (response #169)

Survey Information

Site:	ScottsdaleAZ.gov
Page Title:	Build Multiuse Sports Fields in the area of Bell Road Public Comment
URL:	https://www.scottsdaleaz.gov/construction/project-list/build-mulituse-sports-fields-in-the-area-of-bell-road/public-comment
Submission Time/Date:	6/1/2021 8:42:04 PM

Name:	Jarrid Gordon
Address:	15555 N Frank Lloyd Wright Blvd
Email:	Jarridag27@gmail.com
Phone:	
Comments:	I think these parks would be a great addition to the city. One recommendation I have is about water stations or drinking fountains. I find that a lot of the parks only have 1 or two by the restrooms. It would be really nice with there was a couple on the southwest side of the park to allow spectators and hikers using the paths to have access to drinking water. I look forward to this build since it will be walking distance and we will no longer need to drive to the Scottsdale sports complex. Also any extra long strips of grass for free space would be nice for owners like myself that have trained dogs on remote collars and like the open space for playing chuck-it.

From: Walsh, Erin

Sent: Tuesday, June 1, 2021 8:51 PM

To: Johnson, Ruth

Subject: Build Multiuse Sports Fields in the area of Bell Road Public Comment (response #170)

Build Multiuse Sports Fields in the area of Bell Road Public Comment (response #170)

Survey Information

Site:	ScottsdaleAZ.gov
Page Title:	Build Multiuse Sports Fields in the area of Bell Road Public Comment
URL:	https://www.scottsdaleaz.gov/construction/project-list/build-mulituse-sports-fields-in-the-area-of-bell-road/public-comment
Submission Time/Date:	6/1/2021 8:50:33 PM

Name:	Nicole Turner
Address:	19907 N 69th Avenue
Email:	nturner@rslaz.org
Phone:	(602) 301-3616
Comments:	These fields are very needed. As a soccer coach and admin for our club, I can tell you that the ability to host tournaments in Scottsdale and reserve the fields for training purposes is important to the community and the surrounding club sports.

From: Walsh, Erin

Sent: Tuesday, June 1, 2021 11:40 PM

To: Johnson, Ruth

Subject: Build Multiuse Sports Fields in the area of Bell Road Public Comment (response #171)

Build Multiuse Sports Fields in the area of Bell Road Public Comment (response #171)

Survey Information

Site:	ScottsdaleAZ.gov
Page Title:	Build Multiuse Sports Fields in the area of Bell Road Public Comment
URL:	https://www.scottsdaleaz.gov/construction/project-list/build-mulituse-sports-fields-in-the-area-of-bell-road/public-comment
Submission Time/Date:	6/1/2021 11:39:27 PM

Name:	Shivank Agrawal
Address:	9955 E Monte Cristo Ave
Email:	shivank6@gmail.com
Phone:	
Comments:	I live right across the street from the Planned WestWorld Development and am worried about the increase of traffic and noise pollution in the area. Right now, this area sees very little traffic and I am worried it could become congested due to all the new cars coming in. As well, I am worried about the environmental effects of developing over these acres. Right now there is a beautiful desert there and getting rid of the trails would reduce the natural beauty in this location.

From: Walsh, Erin

Sent: Wednesday, June 2, 2021 9:49 AM

To: Johnson, Ruth

Subject: Build Multiuse Sports Fields in the area of Bell Road Public Comment (response #172)

Build Multiuse Sports Fields in the area of Bell Road Public Comment (response #172)

Survey Information

Site:	ScottsdaleAZ.gov
Page Title:	Build Multiuse Sports Fields in the area of Bell Road Public Comment
URL:	https://www.scottsdaleaz.gov/construction/project-list/build-mulituse-sports-fields-in-the-area-of-bell-road/public-comment
Submission Time/Date:	6/2/2021 9:48:42 AM

Name:	Bradford Coty
Address:	15850 N Thompson Peak Pkwy Apt 1063
Email:	hipcf@cox.net
Phone:	602-692-7222
Comments:	1. Can you build a concrete walkway at the top(westerly) portion of Fields 1-4 where the entrance from McDowell Mtn Ranch Rd comes into the parking? Purpose: so all of the concrete walkways surrounding the entire project can we used for pedestrian/bicycle use both during field use, and when not being used? 2. The design shows the fields being surrounded by fencing. Are all walkways outside of the fencing so that these can be used as mentioned above. This way the entire project can be used by the community, not simply for soccer. 3. Can you build a concrete walkway from Mcdowell Mtn Ranch Road just beyond the new Self-Storage, thru the desert which the City now owns, traversing behind the Self Storage through the two wash areas to enter near/by the large parking area of the WW project? Besides the convenience there is a safety consideration. The kids on bikes can use this as their entry and stay off MMR Rd, where, NOBODY EVER drives 30mph; more like 50mph or greater. While not paramount, if you can build this walkway, is

it possible to install a cross-walk from the opposite side of the MMR Rd to your parcel/walkway, AND install a flashing warning signal between 98th street and the cross-walk to warn drivers(speeders) to slow down Again safety for all, and MAYBE get the traffic THEN to slow down 4. The wash immediately behind the self-storage and adjacent to the WW project parcel has huge fallen trees, debris, plenty of dead grass, etc. This gets flooded when heavy rain falls, and besides being tremendously ugly, prevents water from flowing thru. And, drawing mosquitos. I know this for a fact, I walk this every day.

From: Walsh, Erin

Sent: Thursday, June 3, 2021 2:18 PM

To: Johnson, Ruth

Subject: Build Multiuse Sports Fields in the area of Bell Road Public Comment (response #173)

Build Multiuse Sports Fields in the area of Bell Road Public Comment (response #173)

Survey Information

Site:	ScottsdaleAZ.gov
Page Title:	Build Multiuse Sports Fields in the area of Bell Road Public Comment
URL:	https://www.scottsdaleaz.gov/construction/project-list/build-mulituse-sports-fields-in-the-area-of-bell-road/public-comment
Submission Time/Date:	6/3/2021 2:17:14 PM

Name:	Justin Schwab
Address:	16251 N 98th Place
Email:	justinschwab@yahoo.com
Phone:	(248) 420-2931
Comments:	As residents of Horseman's Park we are excited to have these fields going in nearby. With kids who play soccer, lacrosse and flag football we know it is always a challenge to find fields to use for these sports. It is good to see that this facility will have lights for night use as well. One question - will any of the fields be available for drop in use for those us that coach recreational teams or will they only be reserveable by club teams? Thank you and we look forward to seeing these fields soon! Justin and Carissa Schwab

From: Walsh, Erin

Sent: Saturday, June 5, 2021 10:18 AM

To: Johnson, Ruth

Subject: Build Multiuse Sports Fields in the area of Bell Road Public Comment (response #174)

Build Multiuse Sports Fields in the area of Bell Road Public Comment (response #174)

Survey Information

Site:	ScottsdaleAZ.gov
Page Title:	Build Multiuse Sports Fields in the area of Bell Road Public Comment
URL:	https://www.scottsdaleaz.gov/construction/project-list/build-mulituse-sports-fields-in-the-area-of-bell-road/public-comment
Submission Time/Date:	6/5/2021 10:17:56 AM

Lisa DeBiase

Survey Response

Name:

ivailie.	Lisa Debiase
Address:	10090 E South Bend Dr
Email:	lisadebiase@gmail.com
Phone:	(602) 501-9429
Comments:	As the mother of 2 lacrosse players, I am so happy to have more sports facilities in the area! Plus, it is always nice to have beautiful areas to walk. After spending a lot of time at many sports facilities around the city, including SSC just down the street, I would encourage you to think about having shade trees for spectators to use. SSC gets very hot no trees to hide under and still watch the activities. The parks that offer trees close enough to the fields to also allow for parents to watch without being in the hot sun are so nice. It also mitigates the use of tents, which clutter the sidelines and often butt right up to the sideline, making it potentially dangerous for the players. From the photos, it looks like there are few, if any, trees that allow for spectators to sit under them and watch the action. Please reconsider if there is an opportunity to allow for this. Thank you!!

From: Walsh, Erin

Sent: Tuesday, June 8, 2021 8:22 AM

To: Johnson, Ruth

Subject: Build Multiuse Sports Fields in the area of Bell Road Public Comment (response #175)

Build Multiuse Sports Fields in the area of Bell Road Public Comment (response #175)

Survey Information

Site:	ScottsdaleAZ.gov
Page Title:	Build Multiuse Sports Fields in the area of Bell Road Public Comment
URL:	https://www.scottsdaleaz.gov/construction/project-list/build-mulituse-sports-fields-in-the-area-of-bell-road/public-comment
Submission Time/Date:	6/8/2021 8:21:35 AM

Name:	Nathan Lowy
Address:	10258 E Karen Dr. Scottsdale, AZ 85255
Email:	nathanlowy@gmail.com
Phone:	(602) 692-6772
Comments:	Is there an area to suggest recommended recreational facilities? One of the fastest growing sports in the country, Disc Golf, would be a great addition to either of the sports complex facilities. Please let me know how I can find out more information about requesting/adding to a ballot or petition to try and have a Disc Golf course added. Thanks, Nathan

From: Walsh, Erin

Sent: Tuesday, June 8, 2021 11:14 AM

To: Johnson, Ruth

Subject: Build Multiuse Sports Fields in the area of Bell Road Public Comment (response #176)

Build Multiuse Sports Fields in the area of Bell Road Public Comment (response #176)

Michael Rocca - Rated Sports

Survey Information

Site:	ScottsdaleAZ.gov
Page Title:	Build Multiuse Sports Fields in the area of Bell Road Public Comment
URL:	https://www.scottsdaleaz.gov/construction/project-list/build-mulituse-sports-fields-in-the-area-of-bell-road/public-comment
Submission Time/Date:	6/8/2021 11:13:16 AM

Survey Response

Name:

Address:	Rated Sports Group
Email:	mikerocca@ratedsports.com
Phone:	(416) 888-3433
Comments:	Hello - As a major event holder for youth sports events in Scottsdale, the new fields being constructed in Scottsdale will be a massive driver to furthering the economic impact to local businesses. It is crucial that the fields are maintained between weekends to ensure they are in spectacular shape especially with the amount of play the fields receive over a 2-3 day weekend. Allowing the fields to be used freely will take away from the proper care and maintenance required to ensure fields are kept at a premium through seasonal play as event holders are paying for the quality up keep. Poor maintained fields will result in poor outcomes with prime time tournaments. We are excited to be able to expand on tournament weekends in Scottsdale as maintaining premium fields makes it that much more attractive to draw teams into play. We want teams to come back, not scared off. Regards, Michael Rocca

From: Walsh, Erin

Sent: Wednesday, June 9, 2021 6:04 PM

To: Johnson, Ruth

Subject: Build Multiuse Sports Fields in the area of Bell Road Public Comment (response #177)

Build Multiuse Sports Fields in the area of Bell Road Public Comment (response #177)

Survey Information

Site:	ScottsdaleAZ.gov
Page Title:	Build Multiuse Sports Fields in the area of Bell Road Public Comment
URL:	https://www.scottsdaleaz.gov/construction/project-list/build-mulituse-sports-fields-in-the-area-of-bell-road/public-comment
Submission Time/Date:	6/9/2021 6:02:43 PM

Name:	Colleen Mink
Address:	5740 E. Milton Drive
Email:	desertelitesoccer@gmail.com
Phone:	(602) 741-5007
Comments:	We are excited to have more lighted fields for our community. As a tournament director who uses Scottsdale Sports Complex as well as other facilities, this is a great addition. I appreciate the consideration being taken to incorporate the natural desert landscaping consistent in Scottsdale and the use of the LED lights.

From: Walsh, Erin

Sent: Monday, June 14, 2021 8:53 AM

To: Johnson, Ruth

Subject: Build Multiuse Sports Fields in the area of Bell Road Public Comment (response #178)

Build Multiuse Sports Fields in the area of Bell Road Public Comment (response #178)

Survey Information

Site:	ScottsdaleAZ.gov
Page Title:	Build Multiuse Sports Fields in the area of Bell Road Public Comment
URL:	https://www.scottsdaleaz.gov/construction/project-list/build-mulituse-sports-fields-in-the-area-of-bell-road/public-comment
Submission Time/Date:	6/14/2021 8:52:59 AM

Name:	Mark Marias
Address:	16580 n 92nd st #4001
Email:	mariasmtmd@yahoo.com
Phone:	480-516-1317
Comments:	We have some significant concerns re: the "lighting" of the sports fields. In particular, we are worried that these large sports field lights will be directed at our home, leading to reduced home values and issues with undesirable bright lights directly in our view.

From: Walsh, Erin

Sent: Monday, June 14, 2021 12:59 PM

To: Johnson, Ruth

Subject: Build Multiuse Sports Fields in the area of Bell Road Public Comment (response #179)

Build Multiuse Sports Fields in the area of Bell Road Public Comment (response #179)

Survey Information

Site:	ScottsdaleAZ.gov
Page Title:	Build Multiuse Sports Fields in the area of Bell Road Public Comment
URL:	https://www.scottsdaleaz.gov/construction/project-list/build-mulituse-sports-fields-in-the-area-of-bell-road/public-comment
Submission Time/Date:	6/14/2021 12:57:53 PM

Name:	Lori Herzog
Address:	11450 E. Carol Way
Email:	<u>Iherzog@cox.net</u>
Phone:	(480) 452-2711
Comments:	Hello, I am in favor of more sports fields at the Westworld Sports Complex. Having raised three children in Scottsdale, I believe there is a real need for more recreation space. For some reason the Scottsdale School District fences off their schools so that the fields cannot be used after school hours or on weekends. Most school districts in the Valley do NOT do this. People want to live in Arizona for an outdoor lifestyle, but the reality is that in Scottsdale it can be difficult to find a spot to throw a ball or play soccer with your child, much less be part of team sports. Thank you, Lori Herzog

From: Walsh, Erin

Sent: Monday, June 14, 2021 7:26 PM

To: Johnson, Ruth

Subject: Build Multiuse Sports Fields in the area of Bell Road Public Comment (response #180)

Build Multiuse Sports Fields in the area of Bell Road Public Comment (response #180)

Survey Information

Site:	ScottsdaleAZ.gov
Page Title:	Build Multiuse Sports Fields in the area of Bell Road Public Comment
URL:	https://www.scottsdaleaz.gov/construction/project-list/build-mulituse-sports-fields-in-the-area-of-bell-road/public-comment
Submission Time/Date:	6/14/2021 7:25:13 PM

Name:	Tracy Burgo
Address:	16600 N Thompson Peak Pkwy, 1084
Email:	tlb1024@hotmail.com
Phone:	(480) 473-7203
Comments:	Would be nice if you put in a small park for the kids that are too young to play sports or the siblings of the kids that aren't in that sport or just a park for anyone would be nice. Or even a small dog park. This Horizon Park is a joke and a waist of time and money. We have tons of spaces where, only sports people can enjoy around here now. But hey, as long as the city of scottsdale gets their money from the revenue of these sports courts and fill up 100% of the open land around, they'll be happy!

General Project Related Emails Received

From: Candie Allison <allison.candie@yahoo.com>

Sent: Friday, June 11, 2021 3:42 PM

To: Mayor David D. Ortega <<u>DOrtega@Scottsdaleaz.gov</u>>; Caputi, Tammy <<u>TCaputi@Scottsdaleaz.gov</u>>; Durham, Thomas <<u>TDurham@Scottsdaleaz.gov</u>>; Janik, Betty <<u>BJanik@Scottsdaleaz.gov</u>>; Littlefield, Kathy <<u>KLittlefield@Scottsdaleaz.gov</u>>; Milhaven, Linda <<u>LMilhaven@scottsdaleaz.gov</u>>; Whitehead,

Solange <<u>SWhitehead@Scottsdaleaz.gov</u>> **Subject:** City of Scottsdale Soccer Fields

★ External Email: Please use caution if opening links or attachments!

Scottsdale City Council,

RSL-AZ soccer club wants to commend the City of Scottsdale and the staff at the Scottsdale Sports Complex for everything they do in providing a premier facility and experience to all users. RSL-AZ trains, hosts tournaments, and plays games at Scottsdale Sports Complex and the quality of the facility and fields is nothing short of outstanding.

The Allison Family wants to express our appreciation for all the efforts Scottsdale and the staff at Scottsdale Sports Complex put in place to provide a quality facility that allows us to provide the best training and playing environment for our players. As Scottsdale residents, we also want to share our excitement for the development of the additional complexes in Scottsdale and how having additional world class fields will help in the opportunities to train and play in Scottsdale.

Thank you again for all you do,

Candie Allison 480.239.4296

From: mike leary <outlook_59CA1EDED17AAFFC@outlook.com> on behalf of michaelpleary@cox.net

Sent: Monday, June 14, 2021 11:13 AM

To: Walsh, Erin; Phillips, Joseph; Tessier, Meredith; Kercher, Phillip; Couch, Ashley

Cc: Grant, Randy; Worth, Daniel

Subject: Westworld Sport Complex - comments on MUMSP plan

↑ External Email: Please use caution if opening links or attachments!

Thank you for the opportunity to comment on the proposed Westworld Sports Complex. The plan appears well-conceived especially with the exclusion of the two private parcels backing up to McDowell Mountain Ranch Road and the Graythorn/Horsemen's Park residences.

Comments:

- 1. The park should be secured after hours to preclude unauthorized activities and nuisances.
- 2. The Thompson Peak Parkway frontage road entrance apparently retains the contorted exit onto TPP for southbound traffic especially for larger vehicles. The expectation has been that this intersection problem would be corrected with the development of the ASLD parcel which is now part of the park development. The intersection should be re-examined to avoid worsening the problem.
- 3. The greatest issue with the BOR property has been the inability for the basin to drain within the City-required 48-hour limit. The water has failed to dissipate for several months after rainfalls creating concerns about mosquito breeding. Eliminating the drainage ponding and weeded condition are a city requirement that has been ignored. The City has had to pump water into a sewer manhole which likely conflicts with city policy as well.
- 4. As there is an existing 5' sidewalk on the southside of MMRR from TPP, a 5' sidewalk (not an 8') should be extended along the project frontage westerly into Westword.



inade radius bound

drainage problems need to be solved and the basin improved.

Mike Leary
Michael P. Leary, LTD

Commercial Real Estate Development Consulting
10278 East Hillery Drive
Scottsdale, AZ 85255
(c) 480.991.1111

From: Murphy, Bill

Sent: Friday, June 11, 2021 12:48 PM

To: Johnson, Ruth

Subject: FW: Scottsdale Sports Complex

From: Bachman, Dan < DBachman@Scottsdaleaz.gov>

Sent: Friday, June 11, 2021 9:46 AM

To: Murphy, Bill

Scottsdaleaz.Gov>; Walsh, Chris <CWalsh@Scottsdaleaz.gov>; Peters, Kira

<KCPETERS@SCOTTSDALEAZ.GOV>
Subject: FW: Scottsdale Sports Complex

FYI...

Dan Bachman | CPSI

City of Scottsdale | Community Services Supervisor Scottsdale Sports Complex | 8081 E. Princess Dr. Scottsdale, AZ 85255 O 480.312.7521 | F 480.312.7525 ScottsdaleAZ.gov

Check Us Out On Facebook!

From: Matt Evans <mattevans@scdelsol.com>

Sent: Friday, June 11, 2021 7:23 AM

To: Mayor David D. Ortega <DOrtega@Scottsdaleaz.gov>; Caputi, Tammy <TCaputi@Scottsdaleaz.gov>; Durham,

Thomas < <u>TDurham@Scottsdaleaz.gov</u>>; Janik, Betty < <u>BJanik@Scottsdaleaz.gov</u>>; Littlefield, Kathy

< KLittlefield@Scottsdaleaz.gov; Whitehead, Solange

<SWhitehead@Scottsdaleaz.gov>

Cc: Mat SC del Sol <mattevans@scdelsol.com>

Subject: Scottsdale Sports Complex

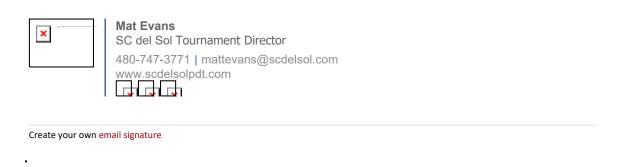
↑ External Email: Please use caution if opening links or attachments!

Scottsdale City Council Members,

SC del Sol wants to commend the City of Scottsdale and the staff at the Scottsdale Sports Complex for everything they do in providing a premier facility and experience to all users. SC del Sol hosts Presidents' Day Tournament at Scottsdale Sports Complex and the feedback on the quality of the facility and fields is nothing short of outstanding.

SC del Sol wanted to express our appreciation for all the efforts Scottsdale and the staff at Scottsdale Sports Complex put in place to provide a tournament level facility that allows us to continue to draw regional and national teams to Scottsdale. We also want to share our excitement for the development of the additional complexes in Scottsdale and how having additional world class fields will help in increasing the size of the events, and ultimately the teams participating in Scottsdale.

If there is anything SC del Sol can do to support Scottsdale in any way, please don't hesitate to let us know.



Phillips, Joseph

From: Murphy, Bill

Sent: Friday, June 11, 2021 12:49 PM

To: Johnson, Ruth

Subject: FW: City of Scottsdale Fields - THANK YOU

From: Rick Kelsey < rickkelsey@azyouthsoccer.org>

Sent: Thursday, June 10, 2021 3:33 PM

To: Mayor David D. Ortega < DOrtega@Scottsdaleaz.gov>; Caputi, Tammy < TCaputi@Scottsdaleaz.gov>; Durham,

 $\label{thm:betty} Thomas < \underline{TDurham@Scottsdaleaz.gov} >; Janik, Betty < \underline{BJanik@Scottsdaleaz.gov} >; Little field, Kathy \\$

 $<\!\!\underline{KLittlefield@Scottsdaleaz.gov}\!\!>; Milhaven, Linda<\!\!\underline{LMilhaven@scottsdaleaz.gov}\!\!>; Whitehead, Solange$

<SWhitehead@Scottsdaleaz.gov>

Cc: Murphy, Bill < bmurphy@Scottsdaleaz.Gov >; Randy Karg < RandyKarg@azyouthsoccer.org >

Subject: City of Scottsdale Fields - THANK YOU

♠ External Email: Please use caution if opening links or attachments!

All - The Arizona Soccer Association (ASA) wants to commend the City of Scottsdale and the staff at the Scottsdale Sports Complex for everything you do in providing a premier facility, fields, and experience to all the soccer community. ASA sanctions 40 tournaments per season and hosts league and events at Scottsdale Sports Complex and the feedback on the quality of the facility and fields is nothing short of outstanding from everyone, especially those who aren't from Arizona and are visiting Scottsdale specifically for the event or tournament, thanks in large part to the dedication of the staff and the commitment of Scottsdale to ensure the field quality is a top priority.

ASA and our 70+ member clubs want to express our appreciation for all the efforts that the City of Scottsdale and the staff at Scottsdale Sports Complex put in place to provide a tournament level facility that allows us to continue to draw regional and national teams to Scottsdale. We also want to share our excitement for the development of the additional complexes in Scottsdale and how having additional world class fields will help in increasing the size of the events, and ultimately the teams and families participating to Scottsdale.

If there is anything ASA can do to support Scottsdale in any way, please don't hesitate to let us know.

Thanks,

Rick Kelsey

Chief Executive Officer 2320 W Peoria Ave C-123, Phoenix, AZ 85029

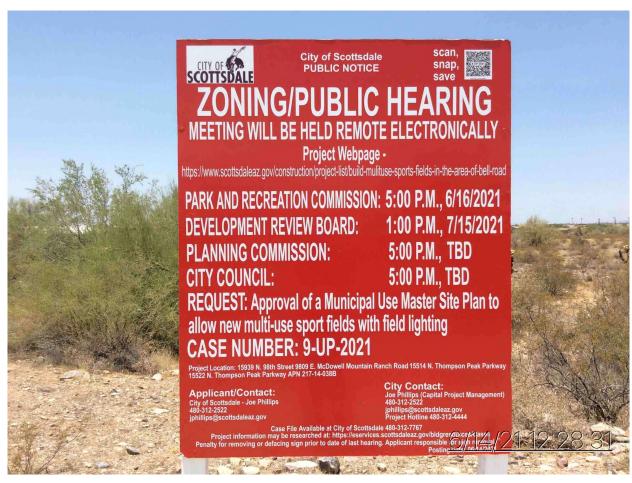
Office: 602-433-9202 Ext: 202

Cell: 623-326-5155 Fax: 602-433-9221

Record of Phone Calls

- 1. Received a voice mail from Howard HOA President of Graythorn Development.
 - a. Voice message was that the website was not working, and comments could not be made. (The City received 15 comments from the website for virtual meeting #1)
 - b. I called Howard back and him know we are currently in a public process and the ability to submit comments is still available.







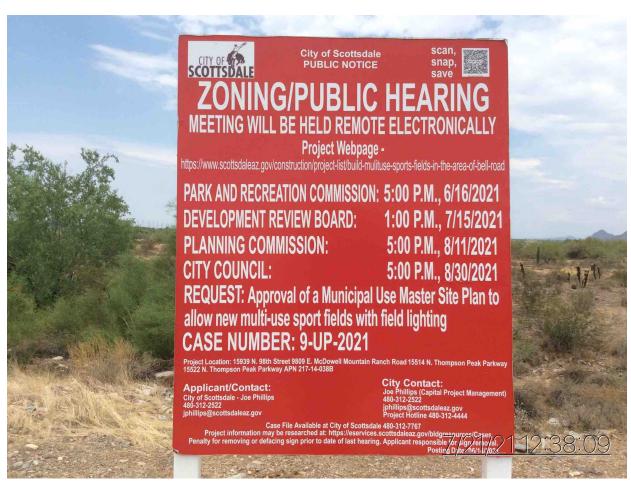
Affidavit of Posting

Reco	Required: Signed, Notarized originals. mmended: E-mail copy to your project coordinator.
☐ Project Under Considerati	on Sign (White)
Case Number:	9-UP-2021
Project Name: 15939 N 98th Location: Peak Parkw	h Street, 9809 E. McDowell Mountain Ranch Road, 15514 N. Thompson ay, 15522 N. Thompson Peak Parkway APN 217-14-038B
Site Posting Date:	June 14th, 2021
Applicant Name:	City of Scottsdale- Joe Phillips
Sign Company Name:	Dynamite Signs
Phone Number:	480-585-3031
Applicant Signature	posted as indicated by the Project Manager for the case as listed above. O 14-2021 Date rized affidavit AND pictures to the Current Planning Office no later than submittal.
Acknowledged before me this th MARYBETH CONRAD Notary Public - Arizona Maricopa County Commission # 591461 My Comm. Expires Oct 25, 203	Notary Public

City of Scottsdale -- Current Planning Division

7447 E Indian School Road, Suite 105, Scottsdale, AZ 85251 + Phone: 480-312-7000 + Fax: 480-312-7088







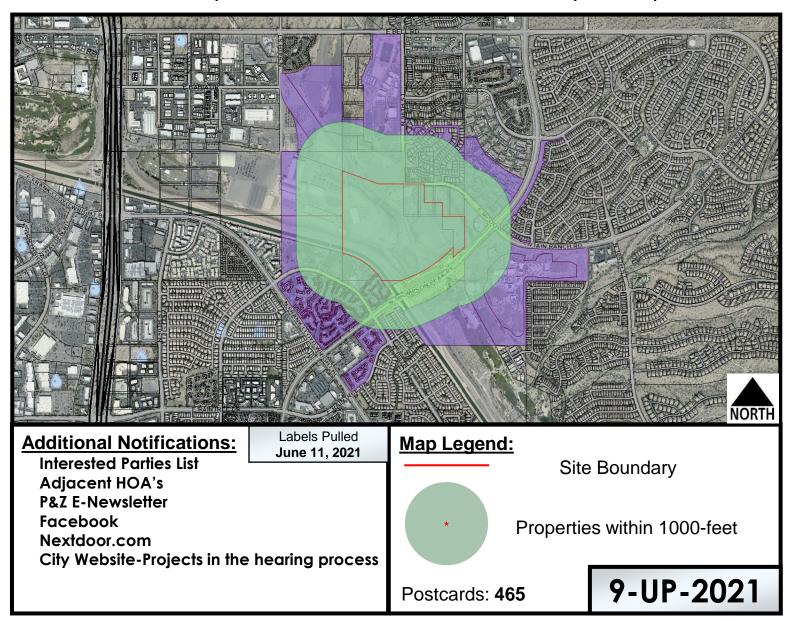
Affidavit of Posting

Re	Required: Signed, Notarized originals. commended: E-mail copy to your project coordinator.
Project Under Consider	ation Sign (White)
Case Number:	9-UP-2021
Project Name: 15939 N. 9 Location: Peak Park	8th Street 9809 E. McDowell Mountain Ranch Road 15514 N. Thompson way, 15522 N. Thompson Peak Parkway APN 217-14-038B
Site Posting Date:	July 21st, 2021
Applicant Name:	City of Scottsdale- Joe Phillips
Sign Company Name:	Dynamite Signs
Phone Number:	480-585-3031
Applicant Signature	n posted as indicated by the Project Manager for the case as listed above. T. 21-2021 Date tarized affidavit AND pictures to the Current Planning Office no later than submittal.
Acknowledged before me this MARYBETH CONRAD Notary Public - Arizona Maricopa County Commission # 591461 My Comm. Expires Oct 25, 202	Notary Public

7447 E Indian School Road, Suite 105, Scottsdale, AZ 85251 • Phone: 480-312-7000 • Fax: 480-312-7088

City Notifications – Mailing List Selection Map

Build Multi-Use Sports Fields in the Area of Bell Rd - WestWorld Sports Complex





CITY OF SCOTTSDALE PARKS AND RECREATION COMMISSION REGULAR MEETING DRAFT MINUTES

Wednesday, June 16, 2021 Meeting Held Electronically

PRESENT: Chair Maryann McAllen, Vice-Chair Kurt Jones, Commissioners Ronald

Lehman, Susan McGarry, Teresa Kim Quale

ABSENT: Commissioners Alexandra Albert and Eric Kurland

STAFF: Community Services Administrator Kira Peters; Managers Nick Molinari, Chris

Walsh; Communications Supervisor Ann Porter

CALL TO ORDER

Chair McAllen called the meeting to order at 5:00 p.m.

ROLL CALL

Members present as indicated above.

PUBLIC COMMENT

There were no members of the public who submitted comments.

MINUTES

Approval of the Regular Meeting minutes – May 19, 2021

COMMISSIONER MCGARRY MOVED TO APPROVE THE MAY 19, 2021 PARKS AND RECREATION COMMISSION MEETING MINUTES. VICE-CHAIR JONES SECONDED THE MOTION, WHICH CARRIED FOUR (4) TO ZERO (0) BY ROLL CALL VOTE. CHAIR MCALLEN, VICE-CHAIR JONES, COMMISSIONERS LEHMAN AND MCGARRY VOTED IN THE AFFIRMATIVE. COMMISSIONER QUALE ABSTAINED. THERE WERE NO DISSENTING VOTES.

REGULAR MEETING AGENDA

1. APPOINTMENT TO THE PATHS & TRAILS SUBCOMMITTEE

Commissioner Quale noted that she attended the recent Paths & Trails Subcommittee meeting as a courtesy. She is willing to serve on the committee; however, she is not a cyclist or a user of the City's trail system. She wondered if another Commissioner might be interested. There was no interest expressed by the other Commissioners.

Parks and Recreation Commission Minutes of the Regular Meeting June 16, 2021 Page 2 of 4

CHAIR MCALLEN APPOINTED COMMISSIONER QUALE TO REPRESENT THE PARKS & RECREATION COMMISSION ON THE TRANSPORTATION COMMISSION'S PATHS AND TRAILS SUBCOMMITTEE WITH A VOTE OF FOUR (4) TO ZERO (0) BY ROLL CALL VOTE. VICE-CHAIR JONES, COMMISSIONERS LEHMAN, MCGARRY, AND QUALE VOTED IN THE AFFIRMATIVE. CHAIR MCALLEN MOMENTARILY LOST ZOOM CONNECTION DURING THE VOTE. THERE WERE NO DISSENTING VOTES.

2. MARKETING AND SOCIAL MEDIA UPDATE

Ann Porter, Communications Supervisor, gave a presentation, discussing how her department manages conversations and communications with the public through the NextDoor outlet. NextDoor is a social media app that connects neighbors based on their address. Citizens are able to sign up for a resident account and are able to post comments and have conversations with others within their community.

The City of Scottsdale is a member of NextDoor for Public Agencies, which was designed so that public agencies can send targeted messages to community members. The City is not able to see conversations between citizens in individual neighborhood accounts. City staff is able to directly respond to questions or comments posted in response to information that has been published through the Public Agencies account. Ms. Porter explained that Parks and Recreation falls under the Community Services NextDoor for Public Agencies account because NextDoor limits the number of accounts the City can hold.

Commissioners expressed interest in being kept updated on hot topics discussed on NextDoor.

3. WESTWORLD SPORTS FIELD PROJECT

Park and Recreation Manager Chris Walsh presented updated information on the WestWorld Sports Fields bond project and requested a recommendation from the Commission to City Council for approval of the Municipal Use Master Site Plan Case #9-UP-2021. His presentation included an overview of the design concepts for the project, project funding, site location, project phasing, and a summary of public comments.

Commissioner Quale expressed interest in seeing the unfiltered public comments.

Vice-Chair Jones declared a conflict of interest on the WestWorld Sports Field Project.

COMMISSIONER LEHMAN MOVED TO RECOMMEND CITY COUNCIL APPROVAL OF THE MUNICIPAL USE MASTER SITE PLAN CASE #9-UP-2021. COMMISSIONER MCGARRY SECONDED THE MOTION, WHICH CARRIED FOUR (4) TO ZERO (0) BY ROLL CALL VOTE. CHAIR MCALLEN, COMMISSIONERS LEHMAN, MCGARRY, AND QUALE VOTED IN THE AFFIRMATIVE. VICE-CHAIR JONES DECLARED A CONFLICT OF INTEREST. THERE WERE NO DISSENTING VOTES.

4. <u>DIRECTOR'S REPORT</u>

Kira Peters, Community Services Administrator, gave an overview of the summer recreation programs participation statistics. She noted that there are currently 1,862 registered in aquatics sessions 1 and 2 and 598 are on wait lists. The program focuses on drowning prevention. As of

Parks and Recreation Commission Minutes of the Regular Meeting June 16, 2021 Page 3 of 4

June 11th, the public swim program had 764 registrants. There are 3,633 people registered for leisure education programs and 286 league teams are registered for various activities, including basketball, kickball, flag football, softball, and volleyball.

The summer concert series at McCormick-Stillman Railroad Park is averaging around 800 attendees at each event. Due to COVID, attendance this year is being limited and reservations are required. Attendance in past years ranged from 3,000 to 5,000 attendees per event.

Ms. Peters noted that the City of Scottsdale is currently in the moderate COVID community spread category. Once the city reaches a low COVID community spread threshold, consideration will be given to restarting the volunteer program.

Ms. Peters briefly talked about Commission for Accreditation of Parks and Recreation Agencies (CAPRA) accreditation, noting that the City of Scottsdale has been accredited for over 25 years. Staff is currently planning for the 2024 evaluation. Ms. Peters said she is hoping that the Parks and Recreation Commissioners can be involved in the process this round.

Scottsdale Leadership will be hosting their 35th anniversary exhibit beginning on June 25, 2021 in the Scottsdale Heritage connection space at Civic Center Library. The exhibit will coincide with the City of Scottsdale's 70th anniversary celebrations. Joan Fudala is scheduled to give an in-person presentation on Scottsdale's history at Civic Center Library on June 23, 2021, beginning at 2:00 p.m. Additional information about 70th anniversary events can be found on the City's website.

Ms. Peters noted that the Parks and Recreation director position is still in the recruitment process.

5. <u>COMMISSIONERS' REPORTS</u>

Vice-Chair Jones noted that he and his family enjoy going to Chaparral Dog Park on a regular basis. He mentioned that the large dog area is all dirt at this time and needs to be switched over to the fresh field. Dry dirt can cause a spread of valley fever. A second issue is that the arm on the gate to the field closest to Hayden Road does not close and there have been several dog escapes from the catch area between the safety fences.

Commissioner Quale said that she was recently at McDowell Mountain Ranch Aquatic Center and enjoyed seeing the children taking lessons.

6. POSSIBLE FUTURE AGENDA ITEMS

Possible future agenda items include:

 Presentation of comparison of participation in recreation programs from the past few years and how COVID has affected those numbers.

Commissioners expressed interest in scheduling in-person meetings as soon as possible.

The Parks and Recreation Commission will take a recess for the months of July and August.

Parks and Recreation Commission Minutes of the Regular Meeting June 16, 2021 Page 4 of 4

7. <u>ADJOURNMENT</u>

COMMISSIONER LEHMAN MOVED TO ADJOURN THE MEETING. VICE-CHAIR JONES SECONDED THE MOTION, WHICH CARRIED FIVE (5) TO ZERO (0) BY ROLL CALL VOTE. CHAIR MCALLEN, VICE-CHAIR JONES, COMMISSIONERS LEHMAN, MCGARRY, AND QUALE VOTED IN THE AFFIRMATIVE. THERE WERE NO DISSENTING VOTES.

With no further business to discuss, being duly moved and seconded, the meeting adjourned at 5:57 p.m.

Recorded and Transcribed by eScribers, LLC.



SCOTTSDALE DEVELOPMENT REVIEW BOARD KIVA-CITY HALL 3939 DRINKWATER BOULEVARD SCOTTSDALE, ARIZONA THURSDAY, JULY 15, 2021 *DRAFT SUMMARIZED MEETING MINUTES*

PRESENT: Kathy Littlefield, Councilwoman

William Scarbrough, Commissioner – attended meeting remotely

Shakir Gushgari, Vice Chair Doug Craig, Design Member

Ali Fakih, Development Member – attended meeting remotely

Jeff Brand, Design Member

ABSENT: Michal Ann Joyner, Development Member

STAFF: Brad Carr Bronte Ibsen

Joe Padilla Karen Hemby Meredith Tessier Nicole Garcia Katie Posler Lorraine Castro

Desirae Mayo

CALL TO ORDER

Councilwoman Littlefield called the meeting of the Development Review Board to order at 1:00 PM.

ROLL CALL

A formal roll call was conducted confirming members present as stated above.

ADMINISTRATIVE REPORT

1. Identify supplemental information, if any, related to July 15, 2021 Development Review Board agenda items, and other correspondence.

PUBLIC COMMENT

2. Public Comment time is reserved for citizens to comment on non-agendized items that are within the Development review Board's jurisdiction. No official Development Review Board action can be taken on the items.

NO PUBLIC COMMENT RECEIVED.

* Note: These are summary action minutes only. A complete copy of the meeting audio/video is available on the Development Review Board website at: http://scottsdale.granicus.com/ViewPublisher.php?view_id=36

MINUTES

3. Approval of the July 1, 2021 Development Review Board Regular Meeting Minutes.

BOARD MEMER CRAIG MOVED TO APPROVE THE JULY 1, 2021 DEVELOPMENT REVIEW BOARD MEETING MINUTES AS PRESENTED, 2ND BY BOARD MEMBER BRAND. THE MOTION PASSED UNANIMOUSLY IN FAVOR BY COUNCILWOMAN LITTLEFIELD, COMMISSIONER SCARBROUGH, VICE CHAIR GUSHGARI, BOARD MEMBERS CRAIG, FAKIH AND BRAND WITH A VOTE OF SIX (6) TO ZERO (0).

CONSENT AGENDA

4. 4-DR-2021 (Greystar Independent Living)

Request for approval of the site plan, building elevations, and landscape plan for a new three and four-story, 161,000 square foot residential healthcare facility on a +/- 4.67-acre site with Commercial Office (C-O) zoning.

Located approximately 1,000 feet northwest of the East Raintree Drive and North 90th Street intersection.

Todd & Associates – Architect

BOARD MEMBER BRAND MOVED TO APPROVE 4-DR-2021, 2ND BY COMMISSIONER SCARBROUGH. THE MOTION PASSED IN FAVOR BY COUNCILWOMAN LITTLEFIELD, COMMISSIONER SCARBROUGH, VICE CHAIR GUSHGARI, BOARD MEMBERS CRAIG AND BRAND WITH A VOTE OF FIVE (5) TO ZERO (0), WITH BOARD MEMBER FAKIH RECUSING.

5. 9-DR-2021 (Toy Barn Scottsdale)

Request for approval of the site plan, landscape plan, and building elevations for a new vehicle storage facility, comprised of three buildings, with approximately 81,200 square feet of building area, all on a 3.86-acre site with Industrial Park (I-1) zoning.

7301 & 7317 E. Helm Drive

DLR Group – Architect

BOARD MEMBER CRAIG MOVED TO APPROVE 9-DR-2021, 2ND BY BOARD MEMBER BRAND. THE MOTION PASSED UNANIMOUSLY IN FAVOR BY COUNCILWOMAN LITTLEFIELD, COMMISSIONER SCARBROUGH, VICE CHAIR GUSHGARI, BOARD MEMBERS CRAIG, FAKIH AND BRAND WITH A VOTE OF SIX (6) TO ZERO (0).

REGULAR AGENDA

6. 42-DR-1993#3 (Terravita Pickleball and Bocce Courts)

Request for approval to add two (2) pickleball courts and two (2) bocce courts to replace an existing croquet lawn at a property with Single-family Residential, Environmentally Sensitive Lands (R1-10 ESL) zoning.

34036 N. 69th Wav

Terravita Country Club – Applicant

VICE CHAIR GUSHGARI MOVED TO CONTINUE 42-DR-1993#3 TO A DATE TO BE DETERMINED, 2ND BY COUNCILWOMAN LITTLEFIELD. THE MOTION PASSED UNANIMOUSLY IN FAVOR BY COUNCILWOMAN LITTLEFIELD, COMMISSIONER SCARBROUGH, VICE CHAIR GUSHGARI, BOARD MEMBERS CRAIG, FAKIH AND BRAND WITH A VOTE OF SIX (6) TO ZERO (0).

7. 9-UP-2021 (WestWorld Sport Fields MUMSP)

Request for a recommendation from the Development Review Board to the Planning Commission and City Council for a Municipal Use Master Site Plan for new multi-use sport fields with field lighting and 5,735 square feet of building area on a +/- 28.14-acre site located at the east side of WestWorld with Western Theme Park (WP) and Single-family Residential, Environmentally Sensitive Lands (R1-35 ESL) zoning.

15514 & 15522 N. Thompson Peak Parkway, 9809 E. McDowell Mountain Road, 15939 N. 98th Street, and Parcel APN 217-14-038B. City of Scottsdale – Joe Phillips, Applicant VICE CHAIR GUSHGARI MOVED TO RECOMMEND APPROVAL OF 9-UP-2021 TO THE PLANNING COMMISSION AND CITY COUNCIL WITH CONSIDERATION OF FUTURE ADDITIONAL AMENITIES AT THE SITE AT A LATER DATE OUTSIDE OF THE APPROVED BOND FUNDING AND COOPERATION WITH THE ADJACENT PROPERTY OWNERS ON REGIONAL DRAINAGE CONCERNS, 2ND BY BOARD MEMBER BRAND. THE MOTION PASSED UNANIMOUSLY IN FAVOR BY COUNCILWOMAN LITTLEFIELD, COMMISSIONER SCARBROUGH, VICE CHAIR GUSHGARI, BOARD MEMBERS CRAIG, FAKIH AND BRAND WITH A VOTE OF SIX (6) TO ZERO (0).

With no further business to discuss, the regular meeting of the Development Review Board adjourned at 3:13 PM.



REQUEST TO SPEAK

Request to Speak cards must be submitted to City Staff BEFORE public testimony begins. Public testimony is limited to three (3) minutes per speaker.

Additional time MAY be granted to speakers representing two or more persons. Cards for designated speakers and the person(s) they represent must be submitted together.

NAME (print) MIKE DELMANTE MEETING DATE 7/5/21				
NAME OF GROUP/ORGANIZATION (if applicable) KINLEY - HORN				
ADDRESS 7740 N. 16th St 14300 ZIP 85020				
HOME PHONE 602 906-1374				
E-MAIL ADDRESS (optional) mike . delmark - & Kmky - hern. can				
I WISH TO SPEAK ON AGENDA ITEM # TIME TO DONATE MY TIME TO				
☐ I WISH TO SPEAK DURING "PUBLIC COMMENT"* CONCERNING				
*Citizens may complete one Request to Speak "Public Comment" card per meeting and submit it to City Staff. "Public Comment" time is reserved for citizen comments regarding non-agendized items. The Board and Commission may hear "Public Comment" testimony, but is prohibited by state law from discussing items which are not listed on the agenda.				
This card constitutes a public record under Arizona law.				
Request to Speak cards must be submitted to City Staff <u>BEFORE</u> public testimony begins. Public testimony is limited to three (3) minutes per speaker. Additional time MAY be granted to speakers representing two or more persons. Cards for designated speakers and the person(s) they represent must be submitted together.				
NAME (print) John Monas MEETING DATE 7/15/2/				
NAME OF GROUP/ORGANIZATION (if applicable)				
ADDRESS 7500 E. Ljacolu Dr. ZIP 85250				
HOME PHONE				
E-MAIL ADDRESS (optional)				
I WISH TO SPEAK ON AGENDA ITEM # 1 WISH TO DONATE MY TIME TO Mike De marter				
☐ I WISH TO SPEAK DURING "PUBLIC COMMENT"* CONCERNING				

^{*}Citizens may complete one Request to Speak "Public Comment" card per meeting and submit it to City Staff. "Public Comment" time is reserved for citizen comments regarding non-agendized items. The Board and Commission may hear "Public Comment" testimony, but is prohibited by state law from discussing items which are not listed on the agenda.



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Cards for designated speakers and the person(s) they represent must be submitted together.

NAME (print) Setting Gross MEETING DATE 7)5/2
NAME OF GROUP/ORGANIZATION (if applicable) Berry Riddel)
ADDRESS 6750 E Camelback Pd #100 ZIP 85251
HOME PHONE 682 689 9314 WORK PHONE 480 682 3921
E-MAIL ADDRESS (optional)
☐ I WISH TO SPEAK ON AGENDA ITEM # ☐ I WISH TO DONATE MY TIME TO
☐ I WISH TO SPEAK DURING "PUBLIC COMMENT"* CONCERNING
*Citizens may complete one Request to Speak "Public Comment" card per meeting and submit it to City Staff. "Public Comment" time is reserved for citizen comments regarding non-agendized items. The Board and Commission may hear "Public Comment" testimony, but is prohibited by state law from discussing items which are not listed on the agenda.
This card constitutes a public record under Arizona law.

Request to Speak cards must be submitted to City Staff before public testimony begins on that item.

HOW TO ADDRESS THE BOARD AND COMMISSION:

- The Chair will call your name when it is your turn to speak.
- Approach the podium and state your name and address for the record.
- Groups wishing to speak are encouraged to select a spokesperson to represent the views of the group.
- Public testimony is limited to three minutes per speaker. (At the Chair's discretion, speakers representing two or more persons may be granted additional time.)
- A timer light, located at the podium, will help you to time your comments.
 - A green light indicates the timer has been activated.
 - A yellow light indicates there is one minute remaining.
 - A red light indicates the comment period has ended.

WRITTEN COMMENTS: Citizens who do not wish to address the Board and Commission in person may submit written comments by completing a yellow Written Comment card. Written Comment cards are available throughout the Kiva Forum and at the Staff table.