AUBURN RD **CORRIDOR PLAN**





WELCOME

CITY OF ROCHESTER HILLS

ALLAN SCHNECK, PE PAUL DAVIS, PE SARA ROEDIGER, AICP PAM VALENTIK KRISTEN KAPELANSKI, AICP



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BACKGROUND

IMPORTANCE

- STRENGTHEN OVERALL DISTRICT BRAND AS A UNIQUE DESTINATION
- > CALM TRAFFIC AND IMPROVE SAFETY
- CREATE A MORE WALKABLE ENVIRONMENT
- ENCOURAGE DEVELOPMENT OPPORTUNITES
- IMPROVE ACCESSIBILITY ALONG THE CORRIDOR







BACKGROUND LSL PLANNING STUDY

LSL Planning

A SAFEbuilt. Company

- PLAN WAS ADOPTED IN JANUARY, 2017
- PHYSICAL ASSESSMENT OF EXISTING CONDITIONS
- INVESTIGATE DESIGN OPPORTUNITIES
- DEFINE A DISTRICT CHARACTER VISION
- ASSESS MARKET GROWTH OPPORTUNITIES



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BACKGROUND OHM EPE STUDY



- FURTHER DEVELOP THE PROPOSED DESIGN CONCEPT
- ASSESS IMPACTS OF SEVERAL TECHNICAL ASPECTS
 - ACCESS MANAGEMENT
 - TRAFFIC CALMING
 - PARKING
 - SAFETY
 - AESTHETICS
 - UTILITIES
 - GEOMETRICS
- EVALUATE CONSTRUCTABILITY
- REFINE A PROJECT SCHEDULE AND COST





EARLY PRELIMINARY ENGINEERING

o IMPORTANCE

- IDENTIFY KEY ISSUES
- PREDICT COST & SCHEDULE
- RECOMMEND BEST DESIGN OPTION

o BENEFITS

- VET OUT MULTIPLE DESIGN OPTIONS
- RECOGNIZE AND ADDRESS CRITICAL ITEMS EARLY IN THE PROJECT





STAKEHOLDER ENGAGEMENT

PROPERTY OWNER MEETINGS

✓ GENERALLY WELL RECEIVED
✓ ADDRESSED CONCERNS AND IMPLEMENTED INTO DESIGN
✓ EXCITEMENT ABOUT ECONOMIC GROWTH POTENTIAL
✓ AWARE OF REAR ALLEY ACCESS TO PROPERTY



DESIGN IMPACTS



- DESIGN GEOMETRY TO PROMOTE SLOWER SPEEDS
- PROVIDE ALTERNATIVE ACCESS/PARKING FOR COMMERCIAL PROPERTIES
- INVESTIGATE THE BENEFITS OF MULTIPLE ROUNDABOUTS THROUGHOUT THE CORRIDOR
- ROAD OWNERSHIP & HOW THIS AFFECTS DESIGN

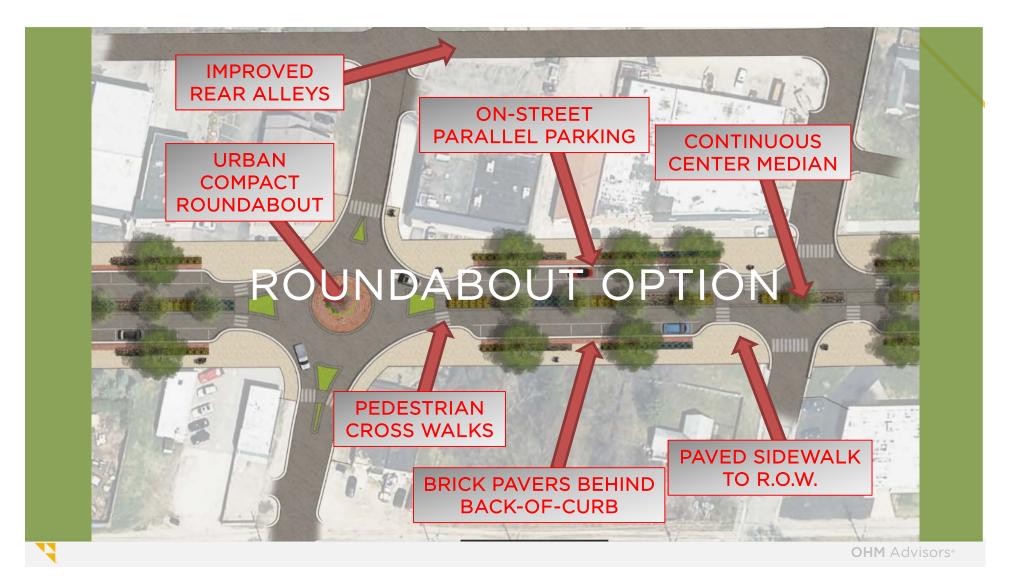


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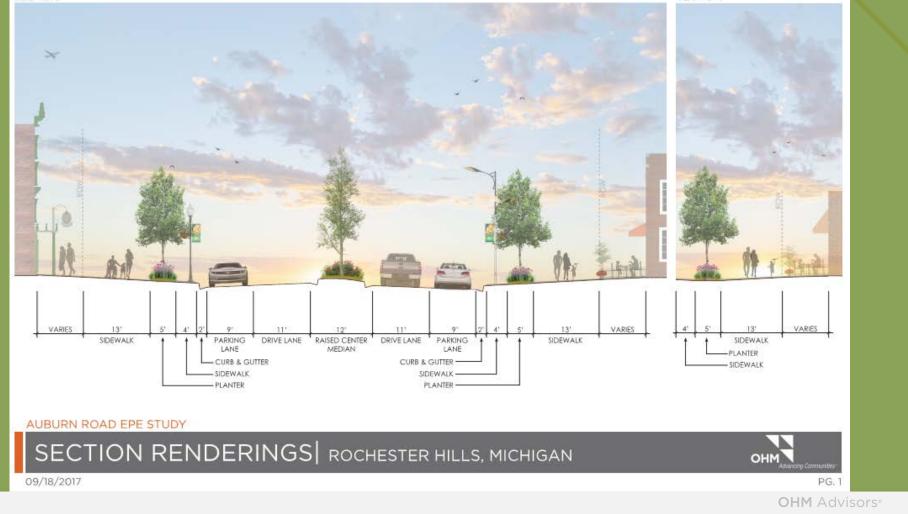












RECOMMENDED DESIGN OPTION

| DESIGN FACTORS | LSL (Base) | ROUNDABOUT |
|----------------------|--------------|--------------|
| AESTHETICS | | \checkmark |
| ACCESS MANAGEMENT | | \checkmark |
| CONSTRUCTABILITY | \checkmark | |
| FIRE & EMS RESPONSE | \checkmark | |
| PROJECT COST | \checkmark | |
| RIGHT-OF-WAY IMPACTS | \checkmark | |
| SAFETY – PEDESTRIAN | | \checkmark |
| SAFETY - VEHICLES | | \checkmark |
| TRAFFIC CALMING | | \checkmark |
| RECOMMENDED OPTION | | \checkmark |
| | | |

COSTS

BASE "LSL" OPTION

| 2,860,000.00 | \$ SUBTOTAL FOR CATEGORY 1 - ROADWAY IMPROVEMENTS |
|----------------|--|
| 180,000.00 | \$ SUBTOTAL FOR CATEGORY 2 - SIDE STREET EXTENSIONS |
| 250,000.00 | \$ SUBTOTAL FOR CATEGORY 3 - ALLEY IMPROVEMENTS |
| 1,200,000.00 | \$ SUBTOTAL FOR CATEGORY 4 - LANDSCAPE SUMMARY |
| 4,490,000.00 | \$ SUBTOTAL ALL CATEGORIES |
| 449,000.00 | \$ CONTINGENCY (10%) |
| 4,939,000.00 | \$ TOTAL OPINION OF PROBABLE CONSTRUCTION COST |
| | |
| 200,000.00 | \$ FRANCHISE UTILITY RELOCATIONS |
| - | \$ ROW ACQUISITION |
| 1,087,000.00 | \$ DESIGN/CONSTRUCTION SERVICES (22%) |
| 6,226,000.00 | \$ TOTAL OPINION OF PROBABLE PROJECT COST |
| | VALUE ENGINEERING IDEAS: |
| (250,000.00) | \$ REDUCE CONCRETE SIDEWALK IN ROW |
| (100,000.00) | \$ REDUCE SCOPE OF STREETSCAPE |
| (150,000.00) | \$ SUBSTITUTE CONCRETE SIDEWALK FOR BRICK PAVERS |
| (500,000.00) | \$ TOTAL OPINION OF VALUE ENGINEERING ITEMS |
| | POTENTIAL OUTSIDE FUNDING: |
| (300,000.00) | \$ MDOT TURNBACK MONIES |
| (500,000.00) | \$ TRANSPORTATION ALTERNATIVE PROGRAM (TAP GRANT) |
| (200,000.00) | \$ SAFETY GRANT |
| (1,000,000.00) | \$ TOTAL OPINION OF OUTSIDE FUNDING |
| 4,726,000.00 | \$ POSSIBLE CITY COST |

COSTS

ROUNDABOUT OPTION

| 3,010,000.00 | \$ SUBTOTAL FOR CATEGORY 1 - ROADWAY IMPROVEMENTS |
|---------------|--|
| 390,000.00 | \$ SUBTOTAL FOR CATEGORY 2 - SIDE STREET EXTENSIONS |
| 250,000.00 | \$ SUBTOTAL FOR CATEGORY 3 - ALLEY IMPROVEMENTS |
| 1,420,000.00 | \$ SUBTOTAL FOR CATEGORY 4 - LANDSCAPE SUMMARY |
| 5,070,000.00 | \$ SUBTOTAL ALL CATEGORIES |
| 507,000.00 | \$ CONTINGENCY (10%) |
| 5,577,000.00 | \$ TOTAL OPINION OF PROBABLE CONSTRUCTION COST |
| | |
| 200,000.00 | \$ FRANCHISE UTILITY RELOCATIONS |
| 20,000.00 | \$ ROW ACQUISITION |
| 1,227,000.00 | \$ DESIGN/CONSTRUCTION SERVICES (22%) |
| 7,024,000.00 | \$ TOTAL OPINION OF PROBABLE PROJECT COST |
| | VALUE ENGINEERING IDEAS: |
| (250,000.00) | \$ REDUCE CONCRETE SIDEWALK IN ROW |
| (100,000.00) | \$ REDUCE SCOPE OF STREETSCAPE |
| (150,000.00) | \$ SUBSTITUTE CONCRETE SIDEWALK FOR BRICK PAVERS |
| (500,000.00) | \$ TOTAL OPINION OF VALUE ENGINEERING ITEMS |
| | POTENTIAL OUTSIDE FUNDING: |
| (300,000.00) | \$ MDOT TURNBACK MONIES |
| (500,000.00) | \$ TRANSPORTATION ALTERNATIVE PROGRAM (TAP GRANT) |
| (200,000.00 | \$ SAFETY GRANT |
| (1,000,000.00 | \$ TOTAL OPINION OF OUTSIDE FUNDING |
| 5,524,000.00 | \$ POSSIBLE CITY COST |



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OWNERSHIP (MDOT vs CITY)

| PRO | CON | | |
|---|--|--|--|
| INCREASED LEVEL OF SERVICE TO THE COMMUNITY | GREATER DEMAND ON CITY STAFF | | |
| MDOT PERMITTING - NOT REQUIRED | INCREASED RESPONSIBILITY FOR MAINTENANCE | | |
| MDOT APPROVAL OF DESIGN - NOT REQUIRED | INCREASED LIABILITY | | |
| INCREASED ACT 51 REVENUE | INCREASED TRAFFIC SIGNAL MAINTENANCE CONTRACT WITH RCOC | | |
| INCREASED METRO ACT FUNDS | INCREASED PERMITTING REQUIRED FROM DPS | | |
| ABILITY TO CONTROL A COMPLETE STREET CONFIGURATION (BIKE LANES, PATHWAY, ETC.) | COST & TIME TO FORMALLY TRANSFER MDOT OWNED ROW AND EASEMENTS | | |
| AUTHORITY TO REDUCE THE SPEED LIMIT IN ORDER TO SUPPORT DESIGN | COST & TIME TO FORMALLY TRANSFER MDOT STORM SEWERS & STRUCTURES TO CITY | | |

CMDOT

ROCHESTER

MICHIGA

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FUNDING

POTENTIAL SOURCES OF FUNDING

OUTSIDE SOURCES:

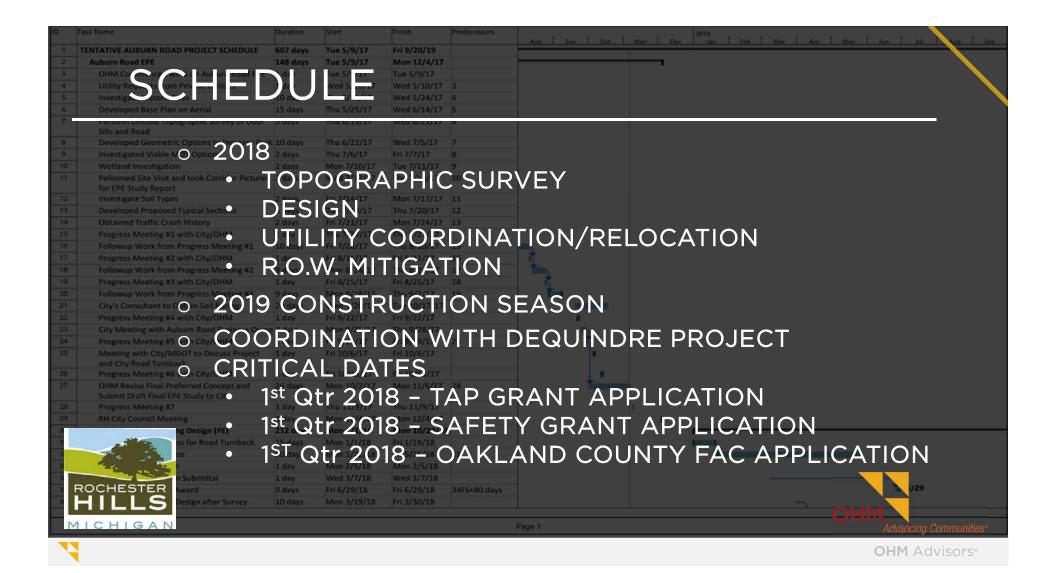
- > MDOT TURNBACK MONIES
- > TRANSPORTATION ALTERNATVIE PROGRAM (TAP GRANT)
- > SAFETY GRANT

INTERNAL SOURCES:

- MAJOR ROADS (ACT 51 / METRO ACT)
- LOCAL ROADS
- > TREE FUND
- SAFETY PATH FUND







NEXT STEPS

- PROCEED WITH PROJECT APPROVE DESIGN CONTRACT?
- LSL OR ROUNDABOUT OPTION PREFERRED?
- JANUARY DECISION ON MDOT TURNBACK





QUESTIONS





