

# REBUILD - #8832 C4600-RIGHT HAND QUIK-BRIK v2.0 (FOOD DESTINATION) 1010 S. ROCHESTER RD. OAKLAND COUNTY ROCHESTER HILLS, MI

OWNER:

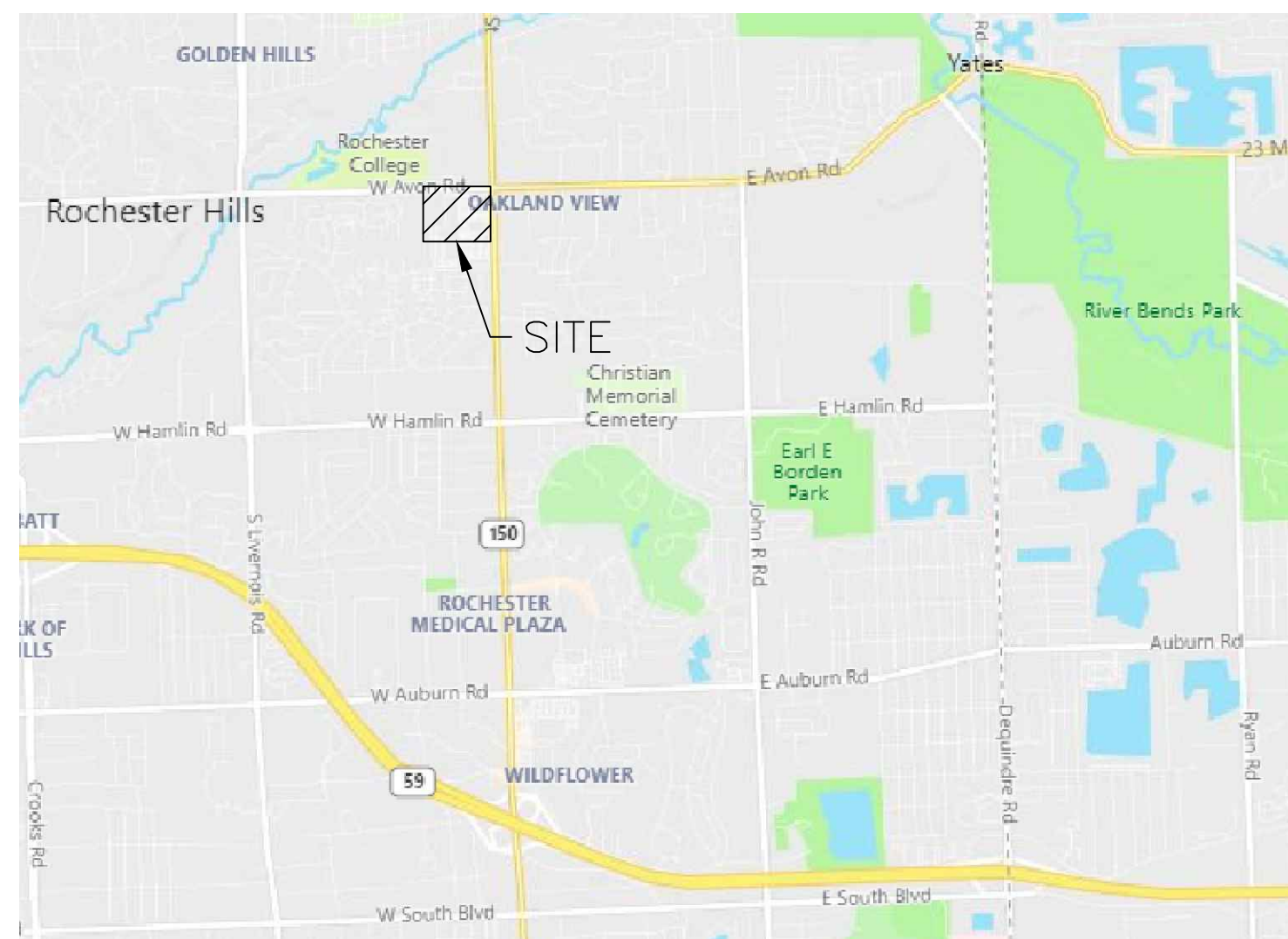
## Speedway®

500 SPEEDWAY DRIVE  
ENON, OH 45323  
937-864-3000

ENGINEERING:

## SSOE®

SSOE, Inc.  
1001 Madison Ave.  
Toledo, OH 43604  
T. (419) 255-3830  
Project # 019-00651-00



**VICINITY MAP**  
NOT TO SCALE



Know what's below.  
Call before you dig.

GENERAL LEGEND		
DESCRIPTION	PROPOSED	EXISTING
BUILDING	[Symbol]	[Symbol]
CONCRETE SIDEWALK	[Symbol]	
CONCRETE PAVEMENT	[Symbol]	
ASPHALT PAVEMENT	[Symbol]	
PROPERTY LINE	[Symbol]	[Symbol]
CHAINLINK FENCE	[Symbol]	[Symbol]
RIGHT-OF-WAY		[Symbol]
SETBACK	[Symbol]	[Symbol]
EASEMENT	[Symbol]	[Symbol]
UNDERGROUND ELECTRIC	[Symbol]	[Symbol]
OVERHEAD ELECTRIC		[Symbol]
UNDERGROUND COMMUNICATIONS	[Symbol]	[Symbol]
SANITARY SEWER	[Symbol]	[Symbol]
NATURAL GAS	[Symbol]	[Symbol]
DOMESTIC WATER	[Symbol]	[Symbol]
STORM SEWER	[Symbol]	[Symbol]
POWER POLE	[Symbol]	[Symbol]
SITE LIGHTING	[Symbol]	[Symbol]
CATCH BASIN	[Symbol]	[Symbol]
MANHOLE	[Symbol]	[Symbol]
WATER QUALITY STRUCTURE	[Symbol]	[Symbol]
CLEAN OUT	[Symbol]	[Symbol]
SIGN	[Symbol]	[Symbol]
BOLLARD	[Symbol]	[Symbol]
MISCELLANEOUS UTILITY STRUCTURE		[Symbol]
MONITORING WELL		[Symbol]
AIR COMPRESSOR	[Symbol]	[Symbol]
MAJOR CONTOURS	[Symbol]	[Symbol]
MINOR CONTOURS	[Symbol]	[Symbol]

### BUILDING CODE ANALYSIS

- PRIMARY BUILDING WITH CAFE:**
- USE CLASSIFICATION: M (MERCANTILE)
  - TYPE OF CONSTRUCTION: VB
  - FIRE SUPPRESSION: NONE REQUIRED
  - FIRE ALARM & SMOKE DETECTION: NONE REQUIRED
  - BUILDING HEIGHT: NON-SPRINKLERED
    - PROPOSED: 23.5 FT
    - ALLOWABLE: 40 FT
  - STORIES: NON-SPRINKLERED
    - PROPOSED: 1
    - ALLOWABLE: 1
  - BUILDING AREA PER FLOOR: NON-SPRINKLERED
    - PROPOSED: 4,600 SF
    - ALLOWABLE: 9,000 SF

- CANOPY:**
- USE CLASSIFICATION: U (UTILITY)
  - TYPE OF CONSTRUCTION: VB
  - FIRE SUPPRESSION: NONE REQUIRED
  - FIRE ALARM & SMOKE DETECTION: NONE REQUIRED
  - BUILDING HEIGHT: NON-SPRINKLERED
    - PROPOSED: 17.5 FT
    - ALLOWABLE: 40 FT
  - STORIES: NON-SPRINKLERED
    - PROPOSED: 1
    - ALLOWABLE: 1
  - BUILDING AREA PER FLOOR: NON-SPRINKLERED
    - PROPOSED: 4,700 SF
    - ALLOWABLE: 5,500 SF

**SITE SPECIFIC**

- 8832-CV COVER SHEET
- 8832-CD DEMOLITION OVERLAY PLAN
- 8832-C01 DEMOLITION OVERLAY PLAN
- 8832-CS PLOT PLAN
- 8832-CS1 DIMENSION PLAN
- 8832-CS2 OVERLAY CENTER & EASEMENTS
- 8832-SS SITE EQUIPMENT PLAN
- 8832-CG GRADING PLAN
- 8832-CG1 GRADING PLAN DETAILS (1 OF 2)
- 8832-CG2 GRADING PLAN DETAILS (2 OF 2)
- 8832-CF CUT & FILL PLAN
- 8832-CE CONSTRUCTION BMP PLAN
- 8832-CU PIPING & UTILITIES PLAN
- 8832-CU1 KEYED UTILITIES PLAN
- 8832-CU2 UTILITY DETAILS
- 8832-SS SIGNAGE PACKAGE & DETAILS
- 8832-LP LANDSCAPE PLAN
- 8832-LP1 LANDSCAPE DETAILS
- 8832-CR CIRCULATION PLAN

**CIVIL SUPPORT**

- STD-C5-A TYPICAL ISLAND AND CONCRETE SLAB DETAILS
- STD-CPC-1 PAVEMENT & CURBING DETAILS
- STD-CUD-1 SERVICE STATION DRAINAGE & UTILITY DETAIL & SPECIFICATIONS
- STD-CYE-A YARD EQUIPMENT INSTALLATION AUTO
- STD-SS-08-B3 QUICK-BRIK DOUBLE DUMPSTER ENCLOSURE

**THIRD PARTY ENGINEERING SUPPORT**

SURVEY PREPARED BY GRIGGS QUADERER, INC.  
#190403 SURVEY 05/16/19

GEOTECHNICAL REPORT BY: ATC GROUP SERVICES, LLC  
DATED: APRIL 25, 2019  
#188SP19033 REPORT OF GEOTECHNICAL EXPLORATION

PHOTOMETRIC PREPARED BY: RED LEONARD ASSOCIATES  
#RL-6381-S1-R3 DATED: MARCH 24, 2020

**SSOE®**  
SSOE, Inc.  
1001 Madison Ave.  
Toledo, OH 43604  
T. (419) 255-3830  
Project # 019-00651-00

MICHAEL E. DUFFY  
ENGINEER  
No. 620104126  
26 Mar 2020

**Speedway®**  
Prepared By:  
Speedway  
Engineering and Construction Dept.  
Enon, OH 45323

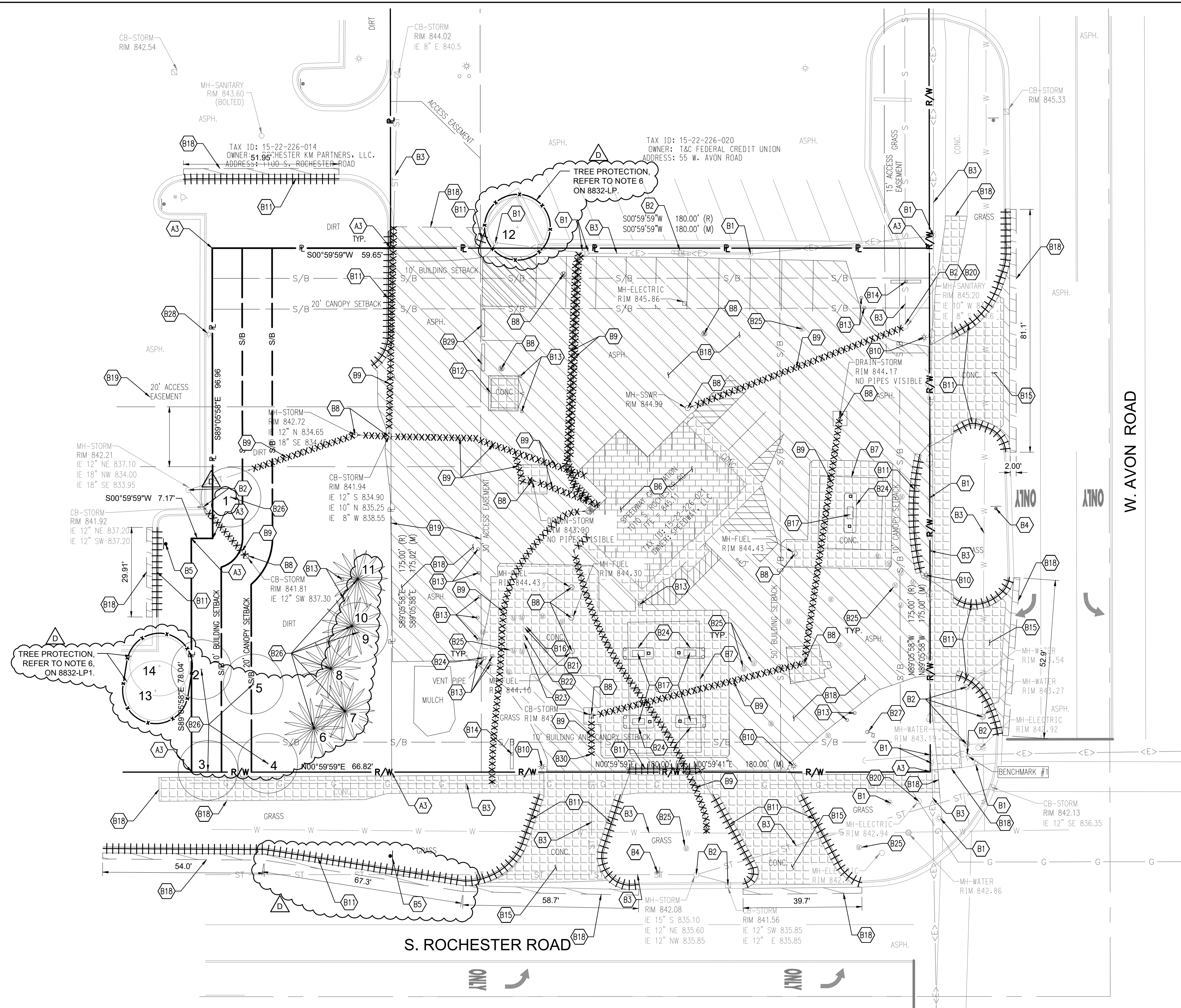
NO.	REVISIONS	DATE	BY	REVIEWED
A	OWNER REVIEW	08/15/19		
B	CITY SUBMISSION	09/25/19		
C	CITY SUBMISSION	02/05/20		
D	CITY SUBMISSION	03/25/20		

COVER SHEET  
REBUILD  
1010 S. ROCHESTER RD  
OAKLAND COUNTY  
ROCHESTER HILLS, MI

STORE OR BLDG NO. 008832  
VERSION OR PROJECT ID 8252

DESIGN TEAM	DATE
DGNR. E. RANDOLPH	02/05/20
P.MGR. M. ALFIERI	02/05/20
RWR. C. HARTMAN	02/05/20

DRWG. NO. 8832-CV



**A. GENERAL NOTES:**

- CLEAR ENTIRE SITE AND PROPERLY DISPOSE OF ALL MATERIALS UNLESS OTHERWISE SPECIFIED ON THE PLANS OR BY THE OWNER'S REPRESENTATIVE.
- CONTRACTOR SHALL NOTIFY THE OWNER OF ANY UNFORESEEN CONDITIONS.
- THE PROPERTY CORNERS SHALL BE MARKED BY OWNER AND PROTECTED AND MAINTAINED BY CONTRACTOR.
- IF DAMAGED AS A RESULT OF THIS CONTRACT, ANY ITEMS TO REMAIN SHALL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- CONTRACTOR SHALL NOTIFY LOCAL UTILITIES 48 HRS. PRIOR TO DEMOLITION.
- CONTRACTOR SHALL INSPECT OVERALL SITE PRIOR TO CONSTRUCTION START AND VERIFY THAT THE ALTA SURVEY INDICATES THE CORRECT TOPOGRAPHY. IF ANY INACCURACIES ARE NOTED, PLEASE CONTACT OWNER'S REPRESENTATIVE.
- CONTRACTOR SHALL COORDINATE DEMOLITION WORK WITH ALL UTILITIES AND COMPLY WITH REGULATIONS AND STANDARDS FOR EACH UTILITY.
- WHEN REMOVING EXISTING UTILITY, CAP UTILITY AT THE MAIN.
- CONTRACTOR SHALL PROVIDE BARRIERS, PERIMETER FENCING, PARTITIONS, PLANKING BRACING, SHORING, LIGHTS, AND SIGNS AS NECESSARY TO PROTECT THE PUBLIC AND ADJACENT PROPERTIES.
- CONTRACTOR SHALL EXERCISE CARE TO PREVENT DUST, VIBRATION, SETTLEMENT, OR OTHER IMPACT TO ADJACENT PROPERTY.
- THE REMOVAL OF ASBESTOS, LEAD, ETC. CONTAINING MATERIALS SHALL BE IN ACCORDANCE WITH REGULATORY REQUIREMENTS, RECOMMENDATIONS IN THE ENVIRONMENTAL SURVEY AND OWNER CONTRACT DOCUMENTS.

**B. KEYED NOTES:**

- EXISTING UTILITY POLE TO REMAIN AND BE PROTECTED.
- EXISTING UTILITY STRUCTURE TO REMAIN AND BE PROTECTED.
- EXISTING UTILITY LINE TO REMAIN AND BE PROTECTED.
- EXISTING SIGN TO REMAIN AND BE PROTECTED.
- EXISTING SIGN TO BE REMOVED AND REPLACED.
- EXISTING BUILDING TO BE REMOVED.
- EXISTING CANOPY TO BE REMOVED.
- EXISTING UTILITY STRUCTURE TO BE REMOVED.
- EXISTING UTILITY LINE TO BE REMOVED.
- EXISTING LIGHT POLE TO BE REMOVED. ALL ASSOCIATED CONDUITS SHALL BE REMOVED.
- EXISTING CURB TO BE REMOVED.
- EXISTING TRASH ENCLOSURE TO BE REMOVED.
- EXISTING BOLLARD TO BE REMOVED.
- EXISTING SIGN TO BE REMOVED.
- REMOVE EXISTING APPROACHES AND DEPRESSED CURB IN RIGHT OF WAY AS NECESSARY.
- REMOVE AND DISPOSE OF EXISTING TANKS. OLD TANK HOLE SHALL BE FILLED AND COMPACTED PER SPECIFICATIONS. REFER TO "SCOPE OF WORK REMOVAL OF UNDERGROUND STORAGE TANK, UNDERGROUND PIPING, HOISTS, AND/OR DISPENSER DISPOSAL" (JUST REMOVAL SOW).
- REMOVE (B) EXISTING DISPENSERS AND CONTACT MAINTENANCE SUPERVISOR FOR DISPOSITION. DRAIN ALL GASOLINE. REMOVE HOSES AND RISERS FROM DISPENSERS AND PLUG OPENINGS TO PREVENT LEAKAGE OF GASOLINE. REMOVE ALL PRODUCT PIPING, VENT LINES AND RISERS, AND ISLANDS.
- SAW CUT. REMOVE AND PROPERLY DISPOSE OF CONCRETE AND ASPHALT NECESSARY FOR CONSTRUCTION ACTIVITIES. ALL MATERIALS REMOVED DURING CONSTRUCTION SHALL BE DISPOSED OF OFF SITE AS DIRECTED BY OWNER'S REPRESENTATIVE.
- PROPERTY LINE AND UTILITY EASEMENTS TO BE REMOVED UNDER SEPARATE LOT CONSOLIDATION SUBMISSION.
- RAISE OR LOWER ELEVATION AS REQUIRED AND SET NEW UTILITY STRUCTURE(S). PROTECT EXISTING STRUCTURE TO REMAIN DURING CONSTRUCTION.
- REMOVE AND DISPOSE OF (1) 15,000 GALLON EXISTING (STEEL, FIBERGLASS) TANKS. OLD TANK HOLE SHALL BE FILLED AND COMPACTED PER SPECIFICATIONS.
- REMOVE AND DISPOSE OF (2) 8,000 GALLON EXISTING (STEEL, FIBERGLASS) TANKS. OLD TANK HOLE SHALL BE FILLED AND COMPACTED PER SPECIFICATIONS.
- REFER TO "SCOPE OF WORK REMOVAL OF UNDERGROUND STORAGE TANK, UNDERGROUND PIPING, HOISTS, AND/OR DISPENSER DISPOSAL" (JUST REMOVAL SOW).
- REMOVE ALL PRODUCT PIPING, VENT LINES AND RISERS, AND ISLANDS.
- CONTRACTOR SHALL MAINTAIN ALL EXISTING MONITORING WELLS IF POSSIBLE. ANY MONITORING WELLS THAT INTERFERE WITH NEW CONSTRUCTION SHALL BE ABANDONED PER STATE REQUIREMENTS. CONTRACTOR WILL COORDINATE WORK WITH OWNER'S ENVIRONMENTAL CONTRACTOR.
- EXISTING TREE TO BE REMOVED.
- EXISTING FLAG POLE AND FOUNDATION TO BE REMOVED.
- EXISTING LIGHT POLE TO REMAIN AND BE PROTECTED.
- REMOVE EXISTING WHEEL STOPS.
- PLUG AND CAP DEAD-END UTILITY LINE.

**C. BENCHMARK NOTES:**

BENCHMARK #1  
TOP ARROW ON FIRE HYDRANT LOCATED APPROXIMATELY 42' SOUTH OF E W. AVON ROAD, 74' WEST OF E S. ROCHESTER ROAD, 12.6' NORTH OF UTILITY POLE AND 12.2' SOUTHWEST OF CATCH BASIN  
N: 13455009.8  
E: 427418.2  
EL: 845.02

\*ALL SURVEY DATA PROVIDED IN NAD 83 (2011) USING NAVD88.

DEMOLITION LEGEND	
DESCRIPTION	EXISTING
BUILDING	
PROPERTY LINE	
RIGHT-OF-WAY	
SETBACK	
EASEMENT	
CURB TO BE REMOVED	
UTILITY TO BE REMOVED	
SAWCUT LINE	
DEMO ASPHALT PAVEMENT	
DEMO CONCRETE PAVEMENT	
DEMO BUILDING	

TREE SURVEY						
TREE #	D.B.H.	BOTANICAL NAME	COMMON NAME	CONDITION	SINGLE (S) / MULTI (M) STEM	SAVE (S) / REMOVE (X)
1	2"	PLATANUS X ACERIFOLIA	LONDON PLANETREE	GOOD	S	X
2	3"	ACER RUBRUM	RED MAPLE	GOOD	S	X
3	9"	MALUS SPP.	CRABAPPLE	FAIR	S	X
4	14.5"	ACER PLATANOIDES	NORWAY MAPLE	POOR	S	X
5	3"	ACER RUBRUM	RED MAPLE	GOOD	S	X
6	N/A	NOT PRESENT		N/A	N/A	X
7	16.5"	PINUS RESINOSA	RED PINE	FAIR	S	X
8	14"	PINUS RESINOSA	RED PINE	FAIR	S	X
9	10"	ACER PLATANOIDES	NORWAY MAPLE	POOR	S	X
10	12.5"	PINUS RESINOSA	RED PINE	FAIR	S	X
11	24.5"	PINUS RESINOSA	RED PINE	GOOD	M	X
12	15"	GLEDTISIA TRIACANTHOS VAR. INERMIS	THORNLESS HONEYLOCUST	GOOD	S	S
13	2"	MALUS SPP.	CRABAPPLE	GOOD	S	S
14	2.5"	ACER RUBRUM	RED MAPLE	GOOD	S	S

**TREE PRESERVATION**

REGULATED TREES  
7 ON SPEEDWAY PARCEL  
3 WITHIN CANOPY FOOTPRINT  
4 WITHIN PAVEMENT AREA

PRESERVATION PERCENTAGE: 40%  
(BASED ON TREES NOT WITHIN BUILDING FOOTPRINT)  
PRESERVED TREES REQUIRED: 40% X 4 = 2  
PRESERVED TREES PROVIDED: 0% = 0

TREES REMOVED:  
DECIDUOUS: 2  
CONIFEROUS: 2

**PLAN CERTIFICATE NOTE:**

ORIGINAL ALTA, TOPOGRAPHY, UTILITIES, STORM SEWERS, AND ALL OTHER EXISTING CONDITION ITEMS WERE PREPARED BY GRIGGS QUADERER FOR SPEEDWAY LLC.

NOTES:  
1. SEE DRAWING 8832-CV FOR GENERAL LEGEND



Know what's below.  
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(419) 245-3830  
Project # 019-06051-00

MICHAEL E. DUFFY  
ENGINEER  
No. 620104126  
26 Mar 2020

Prepared By:  
Engineering and Construction Dept.  
Enon, OH 45323

NO.	DATE	REVISION
A	08/15/19	OFFER REVIEW
B	09/25/19	CITY SUBMISSION
C	02/05/20	CITY SUBMISSION
D	02/25/20	CITY SUBMISSION

DEMOLITION PLAN

REBUILD

1010 S. ROCHESTER RD  
OAKLAND COUNTY  
ROCHESTER HILLS, MI

STORE OR BLDG NO. 008832

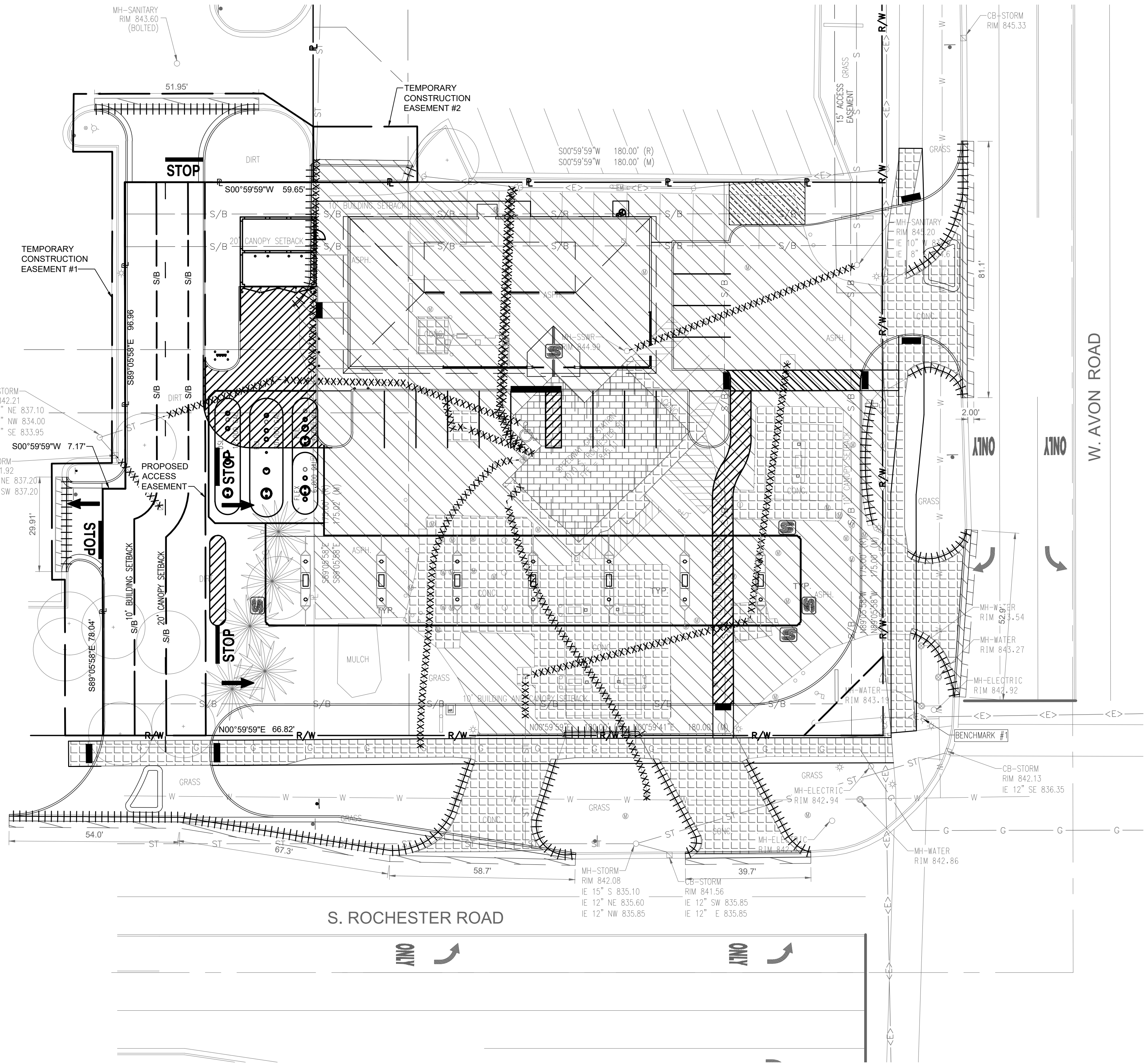
VERSION OR PROJECT ID 8252

SCALE 1" = 20'

DESIGN TEAM	DATE
DGNR. E. RANDOLPH	02/05/20
P.MGR. M. ALFIERI	02/05/20
RVWR. C. HARTMAN	02/05/20

DRWG. NO. 8832-CD

#19-038.2 #22



**A. GENERAL NOTES:**

1. REFER TO 8832-CD DEMOLITION PLAN AND 8832-CS PLOT PLAN FOR NOTATION, LAYOUT, AND NOTES.
2. DENOTE ANY CONFLICTS (E.G. UTILITY LINES) BETWEEN THE 8832-CD AND 8832-CS PLANS AND MAKE APPROPRIATE CHANGES TO THE TIMELINES/SCHEDULE, ACTIVITY SEQUENCING AND NECESSARY MATERIALS FOR PROPER CONSTRUCTION.

NOTES:  
1. SEE DRAWING 8832-CV FOR GENERAL LEGEND

**PLAN CERTIFICATE NOTE:**

ORIGINAL ALTA, TOPOGRAPHY, UTILITIES, STORM SEWERS, AND ALL OTHER EXISTING CONDITION ITEMS WERE PREPARED BY GRIGGS QUADERER FOR SPEEDWAY LLC.



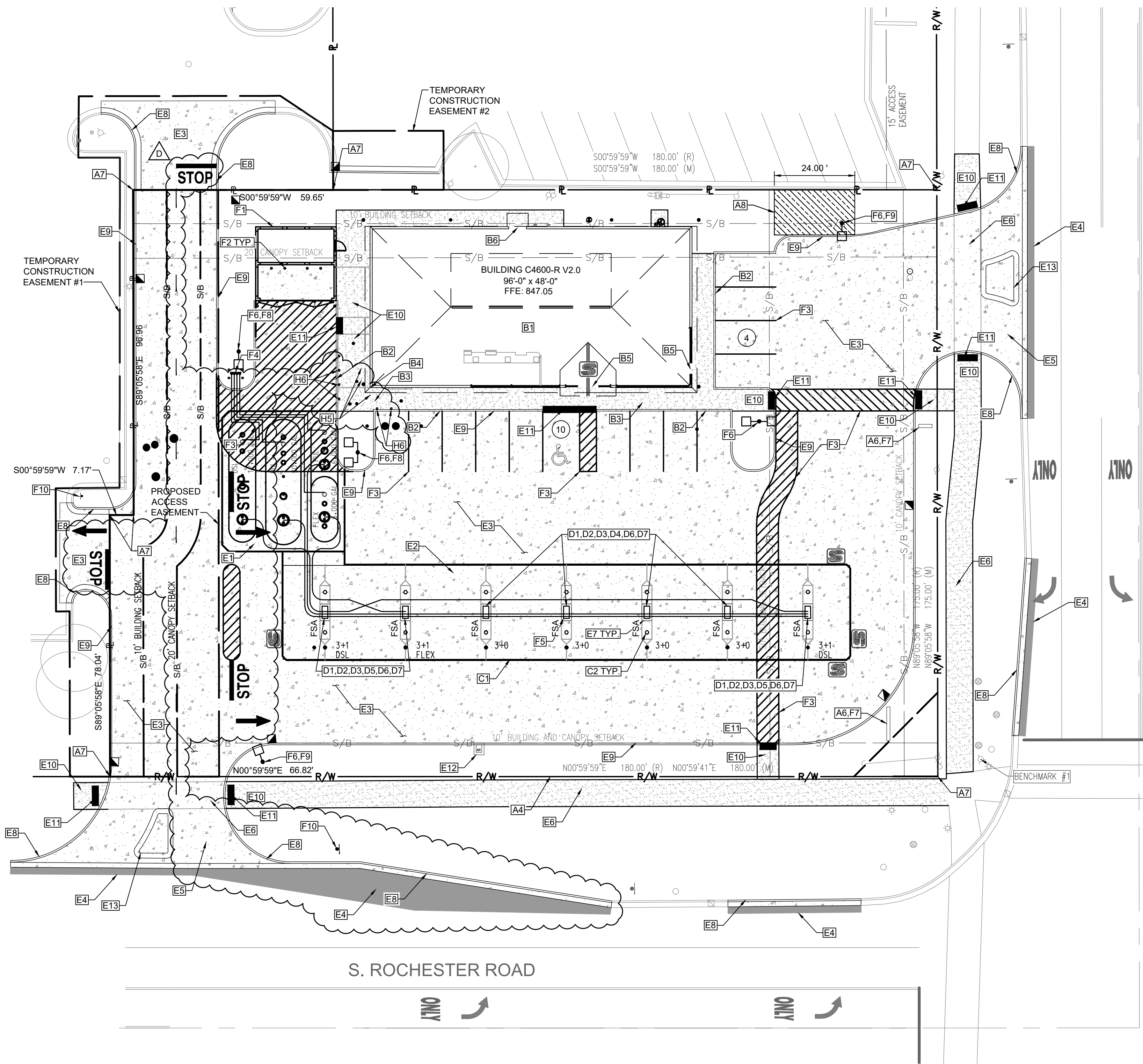
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Call before you dig.

NO.	REVISIONS	DATE	BY	CHKD.
A	OWNER REVIEW	08/15/19		
B	CITY SUBMISSION	09/25/19		
C	CITY SUBMISSION - NO REVISIONS	02/05/20		
D	CITY SUBMISSION - NO REVISIONS	03/25/20		

DEMOLITION OVERLAY PLAN  
REBUILD  
1010 S. ROCHESTER RD  
OAKLAND COUNTY  
ROCHESTER HILLS, MI

STORE OR BLDG NO.	008832
VERSION OR PROJECT ID	8252
SCALE	1" = 20'
DESIGN TEAM	DATE
DGNR. E. RANDOLPH	02/05/20
P.MGR. M. ALFIERI	02/05/20
RVWR. C. HARTMAN	02/05/20
DRWG. NO.	8832-CD1





PAVEMENT LEGEND		
DESCRIPTION	PROPOSED	EXISTING
CONCRETE PAVEMENT		
CONCRETE SIDEWALK		
ASPHALT PAVEMENT		

**PLAN CERTIFICATE NOTE:**

ORIGINAL ALTA, TOPOGRAPHY, UTILITIES, STORM SEWERS, AND ALL OTHER EXISTING CONDITION ITEMS WERE PREPARED BY GRIGGS QUADERER FOR SPEEDWAY LLC.



NOTES:  
1. SEE DRAWING 8832-CV FOR GENERAL LEGEND

**A. GENERAL NOTES:**

- ALL MATERIAL NOTED ON DRAWINGS WILL BE SUPPLIED BY THE CONTRACTOR UNLESS NOTED OTHERWISE.
- RESTORE TO ORIGINAL OR BETTER CONDITION ALL AREAS DISTURBED BY CONSTRUCTION. UPON COMPLETION, POWER WASH ALL PAVING TO OWNER'S SATISFACTION.
- SHOW ALL MODIFIED PIPING, CONDUIT RUNS, UTILITIES AND ANY MODIFICATIONS MADE TO THE ORIGINAL DRAWINGS ON "AS-BUILT" PRINT AND TURN OVER TO OWNERS REPRESENTATIVE UPON COMPLETION.
- THIS LAYOUT IS PARALLEL TO THE EAST PROPERTY LINE (N00°59'59"E).
- TURNOVER MANUAL: ON THE DAY OF THE "TURNOVER" THE CONTRACTOR WILL PROVIDE ONE COPY OF THE COMPLETION MANUALS.
- OWNER SHALL PROVIDE AND THE CONTRACTOR SHALL IMMEDIATELY INSTALL AND MAINTAIN THROUGHOUT CONSTRUCTION (2) TEMPORARY BANNER SIGNS ANNOUNCING SPEEDWAY COMING SOON. THE SIGN SHALL DIRECT CUSTOMERS TO NEAREST SPEEDWAY(S) IF APPLICABLE. CONTRACTOR SHALL MAKE EVERY REASONABLE EFFORT TO COORDINATE WITH SPEEDWAY'S VENDOR TO ERECT THE ID SIGN(S) AS EARLY IN THE CONSTRUCTION PROCESS AS POSSIBLE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR LAYOUT OF THE ENTIRE SITE. THE PROPERTY CORNERS SHALL BE MARKED BY OWNER AND PROTECTED AND MAINTAINED BY CONTRACTOR.
- FUTURE DRIVE.

**B. BUILDING DETAILS:**

- CONSTRUCT C-STORE BUILDING #4600-R QUIK-BRIK PER DRAWINGS LISTED. HVAC SYSTEM SHALL BE GAS AND BE ROOF MOUNTED. THE FOLLOWING OPTIONS SHALL BE INSTALLED: SIDE DOOR OPTION.
- PAINT THE ENTIRE VERTICAL FACE OF THE SIDEWALK HIGHWAY YELLOW (1600014) INCLUDING 4" ONTO THE TOP OF SIDEWALK EXCEPT WHERE GRADES ARE FLUSH AT HANDICAP RAMPS OR ADJACENT TO NON-PAVED SURFACES.
- CONSTRUCT BUILDING SIDEWALK AS SHOWN ON PLOT PLAN AND PER DRAWING STD-CPC-1. CONTRACTOR SHALL FOLLOW BUILDING PLAN DETAILS FOR SIDEWALK REINFORCEMENT IN FRONT OF BUILDING ACCESS POINTS.
- EXTEND BUILDING MATERIAL ALONG SOUTHEASTERN SIDE OF BUILDING SO NO STEM WALL MATERIAL IS EXPOSED. SEE GRADING PLAN AND BUILDING DRAWINGS FOR ELEVATIONS AND DETAILS.
- ACCESSIBLE PUBLIC ENTRANCE.
- SERVICE ENTRANCE.

**C. CANOPY DETAILS:**

- COORDINATE WITH VENDOR TO INSTALL NEW AUTO CANOPY PER MCGEE DRAWINGS. CONTRACTOR SHALL BE RESPONSIBLE FOR FOOTERS AND INSTALLING VENDOR SUPPLIED ANCHOR BOLTS.
- USE AUTO CANOPY COLUMN FOUNDATIONS SIZE (14) 4'X 4'X 5' FOR BIDDING PURPOSES IF AUTO CANOPY DRAWINGS ARE NOT AVAILABLE IN TIME FOR BIDDING. AUTO CANOPY DRAWINGS WILL BE AVAILABLE FOR CONSTRUCTION.

**D. DISPENSER DETAILS:**

- THE CONTRACTOR IS RESPONSIBLE FOR PURGING OF THE FUELING SYSTEM NECESSARY AT START-UP AND DISPENSER CALIBRATION. THE OWNER SHALL PAY FOR (1) THIRD-PARTY LINE TEST FOR EACH PRODUCT LINE AFTER PURGING IS COMPLETE. COST OF ANY ADDITIONAL DISPENSER CALIBRATIONS AND/OR LINE TESTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR SHALL PURGE SYSTEM PER DISPENSER MANUFACTURER'S INSTRUCTIONS AND OWNER'S SPECIFICATIONS. ALL TESTING TO BE COORDINATED WITH SPEEDWAY COMPLIANCE DEPARTMENT. AFTER PURGING IS COMPLETE, CONTRACTOR SHALL REMOVE AND DISCARD SCREENS AND FACTORY FILTERS AND INSTALL NEW FILTERS (MODEL NOTED BELOW), FURNISHED BY OWNER. INSTALLATION DATES SHALL BE CLEARLY MARKED ON FILTER BY CONTRACTOR. FILTER MODELS ARE (A) AUTO: PETROCLEAR 40510A-AD (B) AUTO-DSL AND K-1: PETROCLEAR 40510W-AD (C) FLEX: CIMTEK 70991 (D) HIGHFLOW DSL: PETROCLEAR 5110W. SPEEDWAY'S MAINTENANCE DEPARTMENT SHALL INSTALL DISPENSER FACE LABELS.
- THE CANOPY AND FUELING LINE START-UP CALIBRATION REPORT FORM "W2940136" PRIOR TO START-UP. THE 0.1 TEST MUST BE COMPLETED VIA THE ATG PRIOR TO OPENING FUEL SALES. FORM "917653-003" SHALL BE COMPLETED BY WAYNE'S AUTHORIZED SERVICE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH SPEEDWAY'S PREFERRED AUTHORIZED SERVICE CONTRACTOR (ASC) FOR TRIPS AS FOLLOWS:

TRIP	WAYNE ASC RESPONSIBILITIES	FINANCIAL RESPONSIBILITY
1	PREP DISPENSERS FOR CONTRACTOR TO PURGE PROGRAM VEEDER ROOT AUTOMATIC TANK GAUGE MONITORING SYSTEM REVIEW CONTRACTOR'S PURGE WORK	WAYNE
2	INSTALL EMV KITS REVIEW CONTRACTOR'S COMPLETED WAYNE START-UP CALIBRATION FORM "W2940136" COMPLETE FORM "917653-003" (PRE POS INTEGRATION)	WAYNE
3	COMPLETE FORM "917653-003" (POST POS INTEGRATION)	WAYNE
4	POS INTEGRATION WITH SPEEDWAY IT ANALYST OPENING DAY SUPPORT (SPEEDWAY REQUIREMENT)	CONTRACTOR

- THE CONTRACTOR WILL BE RESPONSIBLE TO HAVE, AT A MINIMUM, THE SITE SUPERINTENDENT, CERTIFIED ELECTRICIAN, AND PETROLEUM START-UP CONTRACTOR ON-SITE AT OPENING FOR A MINIMUM OF (1) HOUR TO ENSURE PROPER OPERATION OF THE FUELING SYSTEM.
- INSTALL (4) NEW WAYNE 3 PRODUCT (3+0) HIGH HOSE DISPENSER WITH CARD READER. INSTALL (14) HOSES, NOZZLES, SWIVELS AND BREAKAWAY FOR GASOLINE DISPENSERS. PRODUCT PIPING LINE-UP AND FRONT SIDE "A" (F.S."A)" OF DISPENSERS SHALL BE AS SHOWN.
- INSTALL (3) NEW WAYNE 4 PRODUCT (3+1) HIGH HOSE DISPENSER WITH CARD READER [AND VAC. ASSIST]. INSTALL (6) HOSES, NOZZLES, SWIVELS AND BREAKAWAY FOR GASOLINE DISPENSERS. (4) HOSES, NOZZLES, SWIVELS AND BREAKAWAY FOR DIESEL DISPENSERS AND (2) HOSES, NOZZLES, SWIVELS AND BREAKAWAY FOR ETHANOL FLEX FUEL DISPENSERS. PRODUCT PIPING LINE-UP AND FRONT SIDE "A" (F.S."A)" OF DISPENSERS SHALL BE AS SHOWN.
- INSTALL NEW (1) 1" AND (2) 3/4" CONDUITS FROM WIRE WAY IN BUILDING TO EACH DISPENSER. (1) 1" CONDUIT TO BE USED FOR POWER/DATA. (1) 3/4" CONDUIT TO BE USED FOR DISPENSER SUMP SENSOR. OTHER 3/4" CONDUIT TO BE USED FOR INTERCOM AND APPLAUSE MEDIA SYSTEM. PULL NEW WIRE AND WIRE DISPENSER PER MANUFACTURER'S SPECIFICATIONS.
- INSTALL ESCO INTERCOM SYSTEM PER DIRECTION OF OWNER'S REPRESENTATIVE AND STANDARD DRAWING #STD-EIW.

**E. PAVING DETAILS:**

- CONSTRUCT NEW CONCRETE TANK SLAB PER DRAWINGS STD-PQ-4.1 AND STD-CPC-1.
- CONSTRUCT NEW CONCRETE CAR CANOPY ISLAND SLAB PER DRAWINGS STD-CIS-A AND STD-CPC-1.
- INSTALL NORMAL STRENGTH CONCRETE PAVEMENT WITH AN AGGREGATE BASE PER PAVEMENT SECTION STD-CPC-1 AND USE THE RECOMMENDATIONS OF GEOTECHNICAL CONSULTANT FOR ALL OTHER SUBSURFACE CONDITIONS ON THIS SITE. NOTIFY THE OWNER'S REPRESENTATIVE IF THERE ARE ANY CONFLICTS.
- CONSTRUCT NEW ASPHALT PAVEMENT WITHIN THE RIGHT OF WAY TO MATCH EXISTING STREET PAVEMENT SECTION.
- CONSTRUCT (2) CONCRETE APPROACHES PER STATE AND/OR LOCAL SPECIFICATIONS. IF APPLICABLE, REMOVE CURB THROUGH APPROACH WIDTH AND REPLACE WITH 1-1/2" HIGH DEPRESSED CURB PER APPLICABLE SPECIFICATIONS.
- INSTALL 8" WIDE, 4" THICK (MATCH THICKNESS AT APPROACHES) CONCRETE PATHWAY PER CITY OF ROCHESTER HILLS STANDARD DETAIL, SHEET 8832-CS3, SEE SHEET STD-CPC-1 FOR CONCRETE WALK SECTION. PATHWAY RAMPS WITHIN RIGHT-OF-WAY TO BE CONSTRUCTED PER MICHIGAN DIVISION OF TRANSPORTATION DETAILS, SHEET 8832-CS3.
- INSTALL (7) NEW CONCRETE DISPENSER ISLANDS WITH 3' X 5' X 13" ISLAND FORM FOR AUTO DISPENSERS.
- CONSTRUCT CONCRETE CURB AND GUTTER IN RIGHT-OF-WAY PER STATE AND/OR LOCAL SPECIFICATIONS. MACHINE FORMED CURB AND GUTTER MAY BE USED IF ALLOWED BY STATE AND/OR LOCAL SPECIFICATIONS. CONSTRUCT CONCRETE CURB IN GUTTER FOR MODIFIED CURBS OF ADJACENT LOTS.
- CONSTRUCT CAST IN PLACE CONCRETE CURB INSIDE PROPERTY LINES PER DRAWING STD-CPC-1.
- CONSTRUCT RAMP WITH DETECTABLE WARNING SURFACE IN CONCRETE WALK PER APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS.
- INSTALL 2'-0" WIDE DETECTABLE WARNING SURFACE ALIGNED ON ACCESSIBLE AISLE PER APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS.
- INSTALL CONCRETE SLAB FOR AIR MACHINE PER DRAWING STD-CYE-A. INSTALL (1) 3/4" CONDUIT AND WIRE PER MANUFACTURER'S RECOMMENDATIONS. VERIFY INSTALLATION DETAILS WITH VENDOR.
- INSTALL CONCRETE MOUNTABLE CURB ISLAND.

**F. YARD AREA DETAILS:**

- CONSTRUCT DUMPSTER ENCLOSURE AND COLLECTION PAD WITH ATTACHED RECYCLING STORAGE SHED AND RELATED WIRING AND CONDUITS PER DRAWING STD-SMB-1 AND STD-SS-QB-C4. GATE SHALL BE BOARD ON BOARD. ENCLOSURE SHALL BE SAME AS BUILDING MATERIAL.
- SUPPLY AND INSTALL (10) 6" BOLLARDS PER DETAIL ON DRAWING STD-CYE-A AND STD-SS SERIES DRAWING. BOLLARD SHALL BE PAINTED RED PER OWNER'S SPECIFICATIONS.
- PAINT INDICATED ACCESSIBLE PARKING STALLS AND INSTALL SIGNAGE PER APPLICABLE CODES. PAINT ALL OTHER PARKING STRIPES YELLOW.
- INSTALL 3" PVC PIPE TO HOLD TANK STICK PER OWNER'S REPRESENTATIVE.
- PROVIDE AND INSTALL CODE APPROVED FIRE EXTINGUISHER(S) (MINIMUM) WITH PLASTIC BOX HOLDER IN APPROVED LOCATIONS AS REQUIRED BY LOCAL FIRE OFFICIALS. FIRE EXTINGUISHERS ARE OWNER SUPPLIED AND CONTRACTOR INSTALLED, AND SHALL BE LOCATED SUCH THAT AN EXTINGUISHER IS NOT MORE THAN 75 FEET FROM PUMPS, DISPENSERS, OR STORAGE TANK FILL OPENINGS. FIRE EXTINGUISHER MINIMUM RATING SHALL BE 2-A:20-B:C.
- CONSTRUCT (5) 18" DIAMETER LIGHT POLE BASES 2'-0" HIGH FOR 15' HIGH LIGHTS PER DETAILS ON DRAWING STD-CYE-A. INSTALL (1) 3/4" CONDUIT TO EACH BASE FROM ELECTRICAL PANELS PER THE OWNER'S REPRESENTATIVE AND WIRE FIXTURES. CONTRACTOR IS RESPONSIBLE FOR TOUCH-UP PAINTING ON POLES, ANCHORS BOLTS, ETC.
- PROVIDE AND INSTALL (1) 1" CONDUIT AND WIRING FROM ELECTRICAL PANEL TO PRICER SIGN FOR 120V POWER. ALSO COMMISSION A WIRELESS CONTROL FROM MANAGER'S WORKSTATION TO PRICER SIGN.
- CONTRACTOR SHALL SUPPLY AND INSTALL CONDUIT (SIZED PER NEC CODES), AND RG59/18-2 SIAMESE CABLE FOR YARD SECURITY CAMERAS TO THESE LOCATIONS. SECURITY CAMERAS SHALL BE INSTALLED BY SPEEDWAY MAINTENANCE DEPT.
- CONTRACTOR SHALL INSTALL CONDUIT (SIZED PER NEC CODES) AND INSTALL PULL STRING FOR FUTURE YARD SECURITY CAMERAS TO THESE LOCATIONS.
- RELOCATED SIGN.

**G. CITY OF ROCHESTER HILLS GENERAL NOTES:**

- REMOVE OR RELOCATE ALL FIXED OBJECTS PRIOR TO EXCAVATION. FIXED OBJECTS SHALL BE NO NEARER THAN 5 FEET FROM BACK OF CURB, OR 12 FEET FROM LANE LINE.
- ANY PEDESTRIAN FACILITIES SHALL BE CONSTRUCTED IN ACCORDANCE WITH CURRENT AMERICANS WITH DISABILITIES ACT (ADA) GUIDELINES.
- MATCH AND TIE PROPOSED CURB TO EXISTING CURB. EPOXY COATED #4 BAR REQUIRED.
- EXCAVATIONS WITHIN A 1:1 INFLUENCE OF THE ROADWAY WILL REQUIRE MDOT CLASS II BACKFILL COMPACTED TO 95% MAXIMUM DENSITY.
- ALL SIGNS MUST MEET SECTION 138-8.603 AND CHAPTER 134 OF THE CITY CODE OF ORDINANCES AND BE APPROVED UNDER A SEPARATE PERMIT ISSUED BY THE BUILDING DEPARTMENT.

**H. FIRE DEPARTMENT NOTES:**

- A KNOX KEY SYSTEM SHALL BE INSTALLED, IN A LOCATION APPROVED BY THE FIRE CODE OFFICIAL. ORDERING INFORMATION IS AVAILABLE FROM THE KNOX COMPANY AT KNOXBOX.COM.
- FIRE LANES SHALL BE DESIGNATED BY THE FIRE CODE OFFICIAL, AND SHALL BE CONSPICUOUSLY POSTED ON BOTH SIDES OF THE FIRE LANE, WITH FIRE LANE SIGNS SPACED NOT MORE THAN 100 FEET APART. FIRE LANE SIGNS SHALL READ "NO STOPPING, STANDING, PARKING, FIRE LANE", AND SHALL CONFORM TO THE MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
- CONSTRUCTION SITES SHALL BE SAFEGUARDED IN ACCORDANCE WITH IFC 2006 CHAPTER 14.
- OPEN BURNING IS NOT PERMITTED INCLUDING THE BURNING OF TRASH, DEBRIS, OR LAND CLEARING MATERIALS. OPEN BURNING FOR WARMING OF SAND AND/OR WATER FOR THE OPERATION OF MORTAR SHALL BE WITHIN THE CITY OF ROCHESTER HILLS BURN PERMIT GUIDELINES.
- PROPANE EXCHANGE CAGE WITH 18 TANK CAPACITY. (TYP. 3)
- GUARD POSTS ADJACENT TO PROPANE CAGE SHALL BE (6) 6" BOLLARDS INSTALLED PER DETAIL ON STD-CYE-A. POST SPACING 4' O.C. MAXIMUM AND A MINIMUM OF 3' FROM PROTECTED OBJECT.
- GUARD POST FOOTINGS SHALL BE VISUALLY INSPECTED BY THE ROCHESTER HILLS BUILDING DEPARTMENT PRIOR TO PLACING CONCRETE. CONTACT THE BUILDING DEPARTMENT'S 24 HOUR INSPECTION LINE AT 248-666-4619 TO SCHEDULE AN INSPECTION.



NO.	DESCRIPTION	DATE	BY	REVIEWED
A	OWNER REVIEW	08/15/19		08/15/19
B	CITY SUBMISSION	09/25/19		09/25/19
C	CITY SUBMISSION	02/05/20		02/05/20
D	CITY SUBMISSION	02/25/20		02/25/20

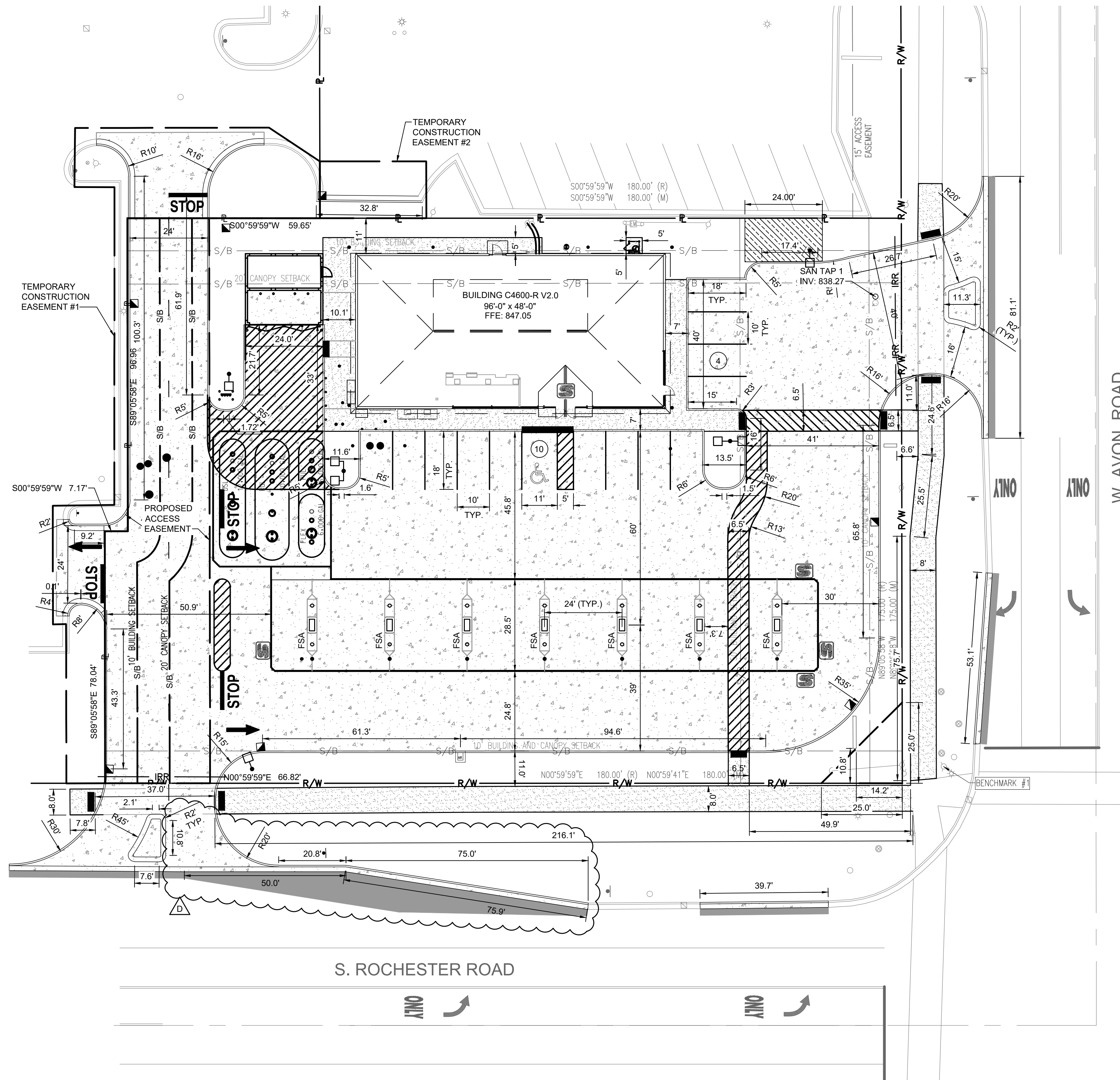
PLOT PLAN  
REBUILD  
1010 S. ROCHESTER RD  
OAKLAND COUNTY  
ROCHESTER HILLS, MI

STORE OR BLDG NO.	008832
VERSION OR PROJECT ID	8252
SCALE	1" = 20'
DESIGN TEAM	DATE
DNWR. E. RANDOLPH	02/05/20
P.MGR. M. ALFIERI	02/05/20
RVWR. C. HARTMAN	02/05/20
DRAW. NO.	8832-CS



\$37 TIME \$45 PER HOUR \$3  
 8832-CV-1, 8832-CV-2, 8832-CV-3, 8832-CV-4, 8832-CV-5, 8832-CV-6, 8832-CV-7, 8832-CV-8, 8832-CV-9, 8832-CV-10, 8832-CV-11, 8832-CV-12, 8832-CV-13, 8832-CV-14, 8832-CV-15, 8832-CV-16, 8832-CV-17, 8832-CV-18, 8832-CV-19, 8832-CV-20, 8832-CV-21, 8832-CV-22, 8832-CV-23, 8832-CV-24, 8832-CV-25, 8832-CV-26, 8832-CV-27, 8832-CV-28, 8832-CV-29, 8832-CV-30, 8832-CV-31, 8832-CV-32, 8832-CV-33, 8832-CV-34, 8832-CV-35, 8832-CV-36, 8832-CV-37, 8832-CV-38, 8832-CV-39, 8832-CV-40, 8832-CV-41, 8832-CV-42, 8832-CV-43, 8832-CV-44, 8832-CV-45, 8832-CV-46, 8832-CV-47, 8832-CV-48, 8832-CV-49, 8832-CV-50, 8832-CV-51, 8832-CV-52, 8832-CV-53, 8832-CV-54, 8832-CV-55, 8832-CV-56, 8832-CV-57, 8832-CV-58, 8832-CV-59, 8832-CV-60, 8832-CV-61, 8832-CV-62, 8832-CV-63, 8832-CV-64, 8832-CV-65, 8832-CV-66, 8832-CV-67, 8832-CV-68, 8832-CV-69, 8832-CV-70, 8832-CV-71, 8832-CV-72, 8832-CV-73, 8832-CV-74, 8832-CV-75, 8832-CV-76, 8832-CV-77, 8832-CV-78, 8832-CV-79, 8832-CV-80, 8832-CV-81, 8832-CV-82, 8832-CV-83, 8832-CV-84, 8832-CV-85, 8832-CV-86, 8832-CV-87, 8832-CV-88, 8832-CV-89, 8832-CV-90, 8832-CV-91, 8832-CV-92, 8832-CV-93, 8832-CV-94, 8832-CV-95, 8832-CV-96, 8832-CV-97, 8832-CV-98, 8832-CV-99, 8832-CV-100

4571 TIME \$... 4571 TIME \$... 4571 TIME \$...



NOTES:  
1. SEE DRAWING 8832-CV FOR GENERAL LEGEND

**PLAN CERTIFICATE NOTE:**  
ORIGINAL ALTA, TOPOGRAPHY, UTILITIES, STORM SEWERS, AND ALL OTHER EXISTING CONDITION ITEMS WERE PREPARED BY GRIGGS QUADERER FOR SPEEDWAY LLC.

PAVEMENT LEGEND		
DESCRIPTION	PROPOSED	EXISTING
CONCRETE PAVEMENT		
CONCRETE SIDEWALK		
ASPHALT PAVEMENT		



**HANDICAP PARKING SIGN**  
SCALE: NONE



Know what's below.  
Call before you dig.

NO.	REVISIONS	DATE	BY	CHKD.
A	OWNER REVIEW	08/15/19		
B	CITY SUBMISSION	09/25/19		
C	CITY SUBMISSION	02/05/20		
D	CITY SUBMISSION	03/25/20		

**DIMENSION PLAN**  
REBUILD  
1010 S. ROCHESTER RD  
OAKLAND COUNTY  
ROCHESTER HILLS, MI

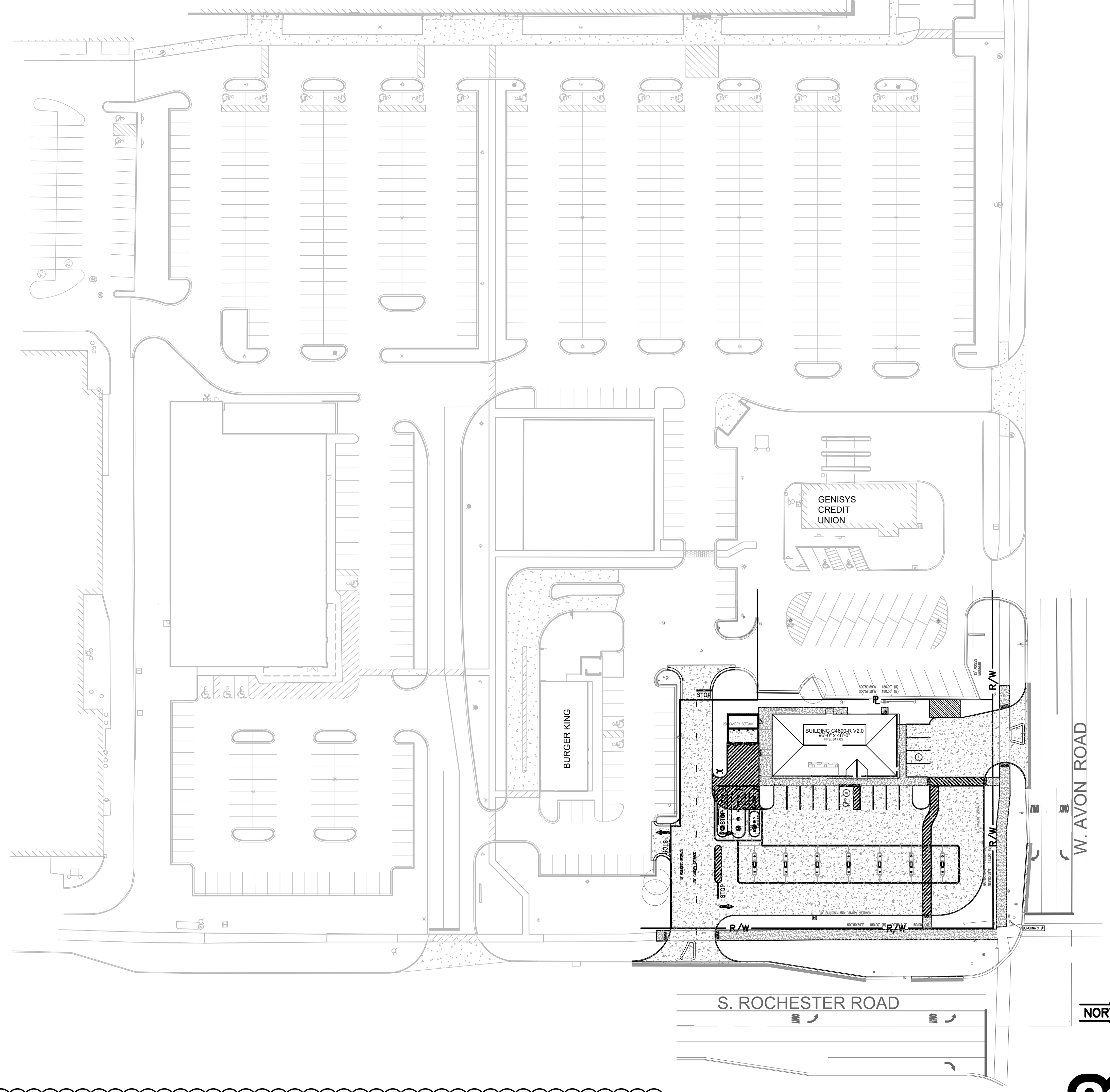
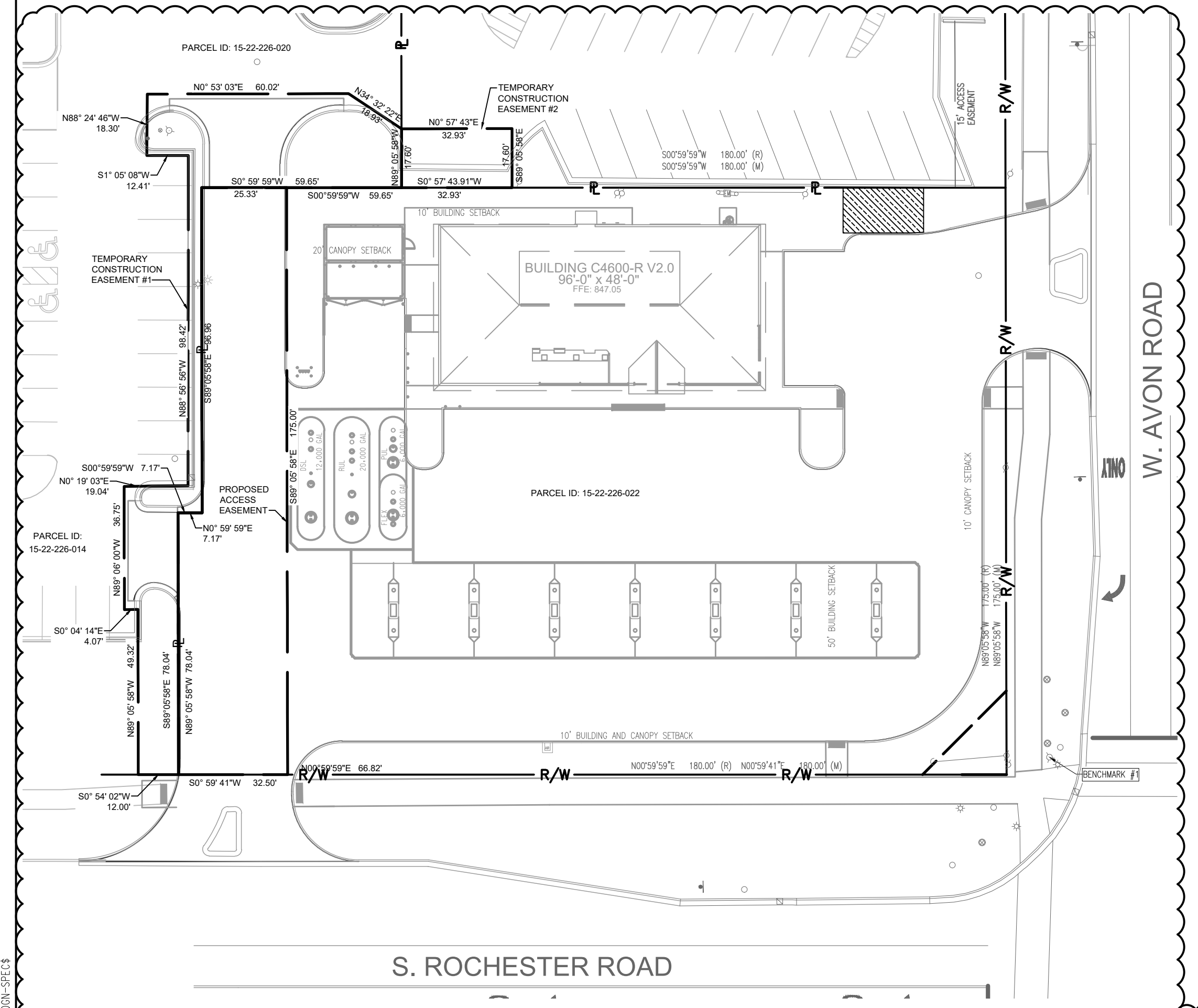
STORE OR BLDG NO. 008832  
VERSION OR PROJECT ID 8252  
SCALE 1" = 20'  
DESIGN TEAM DATE  
DNVR. E. RANDOLPH 02/05/20  
P.MGR. M. ALFIERI 02/05/20  
RVWR. C. HARTMAN 02/05/20  
DRWG. NO. 8832-CS1

**SSOE**  
SSOE, Inc.  
1001 Madison Ave.  
Toledo, OH 43604  
Tel: (419) 265-5850  
Project # 019-06051-00



**Speedway**  
Prepared By:  
Engineering and Construction Dept.  
Enon, OH 45323

\$37 TIME & \$25 FEE BME \$  
 \$2000 SPECS, \$3000 SPECS, \$4000 SPECS, \$4000 SPECS



NOTES:  
1. SEE DRAWING 8832-CV FOR GENERAL LEGEND



OVERALL CENTER & EASEMENTS		NO. 1	REVISIONS	NO. 1	DATE
A	OWNER REVIEW	08/15/19	08/15/19	08/15/19	08/15/19
B	CITY SUBMISSION	09/25/19	09/25/19	09/25/19	09/25/19
C	CITY SUBMISSION	02/05/20	02/05/20	02/05/20	02/05/20
D	CITY SUBMISSION	03/25/20	03/25/20	03/25/20	03/25/20
STORE OR BLDG NO. 008832					
VERSION OR PROJECT ID 8252					
SCALE 0 50'					
1" = 50'					
DESIGN TEAM	DATE				
DNVR. E. RANDOLPH	02/05/20				
P.MGR. M. ALFIERI	02/05/20				
RVWR. C. HARTMAN	02/05/20				
DRWG. NO. 8832-CS2					

**SSOE**  
 SSOE Inc.  
 1001 Madison Ave.  
 Toledo, OH 43604  
 Tel: (419) 255-5850  
 Project # 019-00651-00



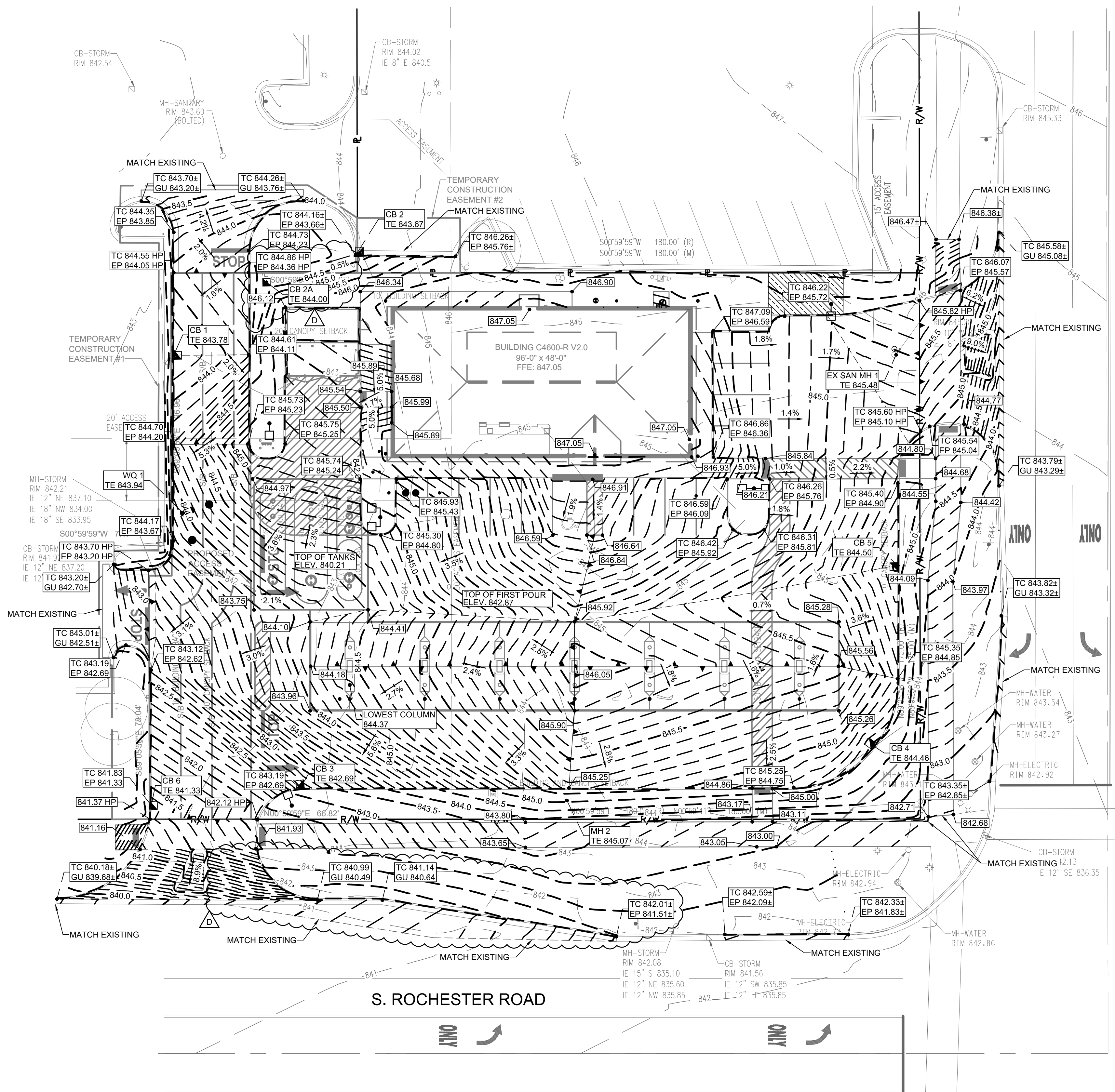
**Speedway**  
 Prepared By:  
 Speedway  
 Engineering and Construction Dept.  
 Enon, OH 45323

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1010 S. ROCHESTER RD  
 OAKLAND COUNTY  
 ROCHESTER HILLS, MI

#19-038.2 #22





**A. GRADING NOTES:**

- CONTRACTOR TO USE EXTREME CAUTION WHEN GRADING IN AND AROUND EXISTING UTILITIES. CONTRACTOR SHALL FIELD VERIFY LOCATION AND DEPTH PRIOR TO START OF CONSTRUCTION.
- EXCAVATE SOILS AS NECESSARY TO COMPLETE PROPOSED CONSTRUCTION. UNLESS OTHERWISE DIRECTED (REFER TO GEOTECHNICAL REPORT), USE ALL EXCAVATED SOILS AS FILL ON SITE. ANY SOILS THAT CANNOT BE UTILIZED ON SITE SHALL BE LOADED DIRECTLY ONTO TRANSPORT TRUCKS AND HAULED TO OWNER'S APPROVED LOCATION. ANY IMPACTED SOILS ENCOUNTERED SHALL BE LOADED SEPARATELY AND SHALL NOT BE COMINGLED WITH CLEAN SOILS. ANY EXCAVATED SOIL OR MATERIALS THAT LEAVE THE SITE MUST GO TO AN APPROVED LANDFILL LOCATION OR BE ACCOMPANIED BY AN APPROVED BILL OF SALE.
- BID AS ALTERNATE A: IMPACTED SOILS SHALL BE PLACED ON MINIMUM 6 MIL. VISQUEEN AND COVERED WITH 40' X 100' SHEETS OF 4 MIL. VISQUEEN. A SAND BERM SHALL BE CONSTRUCTED AROUND ENTIRE PILE OF SOIL TO HOLD THE VISQUEEN DOWN. ALL SEAMS OR OVERLAP (8" MINIMUM) IN THE VISQUEEN COVERING SHALL BE SECURED WITH WEIGHTED MATERIAL.
- BID AS ALTERNATE B: PROVIDE DEWATERING NECESSARY FOR ANY EXCAVATIONS AND TO PREVENT TANKS FROM FLOATING WHILE THE TANKS ARE NOT COVERED BY PROPER OVERBURDEN. DEWATERING SHALL CONSIST OF SUPPLYING EQUIPMENT AND LABOR TO MAINTAIN PUMPING ACTIVITIES AS NECESSARY. COORDINATE WITH OWNER'S REPRESENTATIVE TO DETERMINE WHERE WATER CAN BE PUMPED, IDENTIFY THIS COST AS A SPECIFIC LINE ITEM IN THE BID. DISPOSAL OF CONTAMINATED WATER SHALL BE THE OWNER'S RESPONSIBILITY.
- THE ENVIRONMENTAL CONSULTANT AND THE CONTRACTOR SHALL USE THE "SOILS WORKSHEET" TO ACCOUNT FOR ALL EXCAVATED SOILS.
- A REPORT OF THE SUBSURFACE INVESTIGATION IS MADE AVAILABLE TO THE CONTRACTOR AT TIME OF BIDDING. THE BASE BID SHALL INCLUDE LAND BALANCING ACTIVITIES BASED ON THE ASSUMPTION THAT EXCAVATED SOIL CAN BE REUSED AS NECESSARY FOR CONSTRUCTION. UPON REVIEWING THE SUBSURFACE INVESTIGATION, CONTRACTOR SHALL INCLUDE THE FOLLOWING AS ALTERNATE: A. OVER-EXCAVATE AREAS OF UNSUITABLE SOILS AND STABILIZE AREAS PER THE SUBSURFACE INVESTIGATION. ESTIMATE QUANTITY OF OVER-EXCAVATED AREAS AND REPLACE BACKFILL IN EACH AREA, ALONG WITH THE TYPE OF BACKFILL. ACTUAL QUANTITIES WILL BE VERIFIED DURING CONSTRUCTION PER THE DIRECTION OF THE GEOTECH CONSULTANT AND OWNER'S REPRESENTATIVE, WITH DETAILED CHANGE ORDERS SUBMITTED TO OWNER.
- ANY DISCREPANCIES BETWEEN ELEVATIONS SHOULD BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE AND THE DESIGN ENGINEER.

ABBREVIATIONS

TC	TOP OF CURB
EP	EDGE OF PAVEMENT
GU	GUTTER

GRADING PLAN LEGEND

DESCRIPTION	PROPOSED	EXISTING
UNDERGROUND ELECTRIC		
OVERHEAD ELECTRIC		
POWER POLE		
LIGHT POLE		
UNDERGROUND COMMUNICATIONS		
SANITARY SEWER		
NATURAL GAS		
DOMESTIC WATER		
STORM SEWER		
MANHOLE		
CATCH BASIN		
CLEAN OUT		
MAJOR CONTOUR		
MINOR CONTOUR		
RIDGE LINE		

NOTES:  
1. SEE DRAWING 8832-CV FOR GENERAL LEGEND

**PLAN CERTIFICATE NOTE:**

ORIGINAL ALTA, TOPOGRAPHY, UTILITIES, STORM SEWERS, AND ALL OTHER EXISTING CONDITION ITEMS WERE PREPARED BY GRIGGS QUADERER FOR SPEEDWAY LLC.

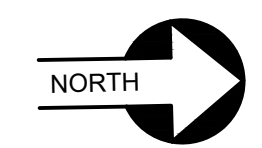


REVISIONS

NO.	DATE	DESCRIPTION
A	08/15/19	OWNER REVIEW
B	09/25/19	CITY SUBMISSION
C	02/05/20	CITY SUBMISSION
D	02/25/20	CITY SUBMISSION

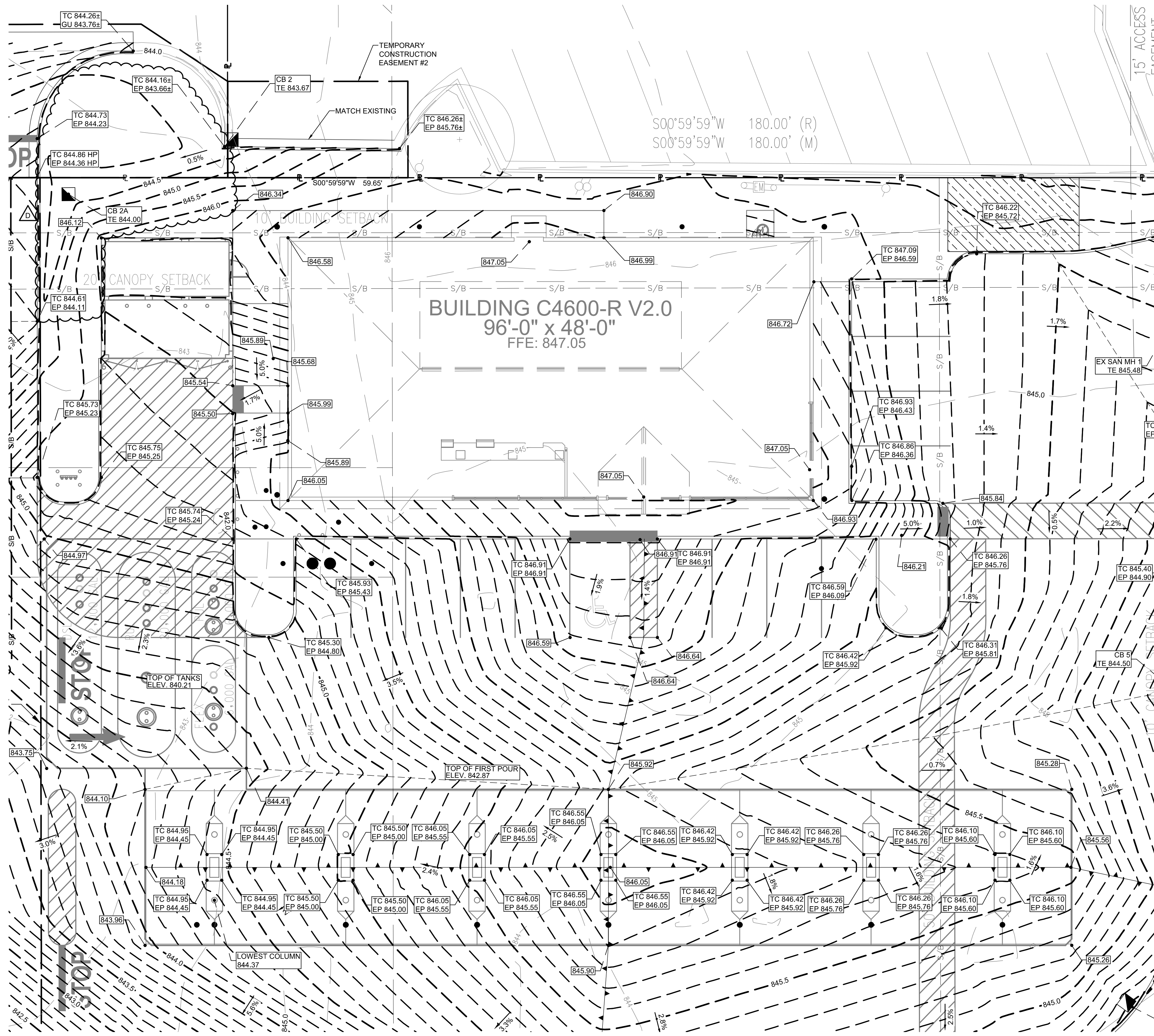
GRADING PLAN  
REBUILD  
1010 S. ROCHESTER RD  
OAKLAND COUNTY  
ROCHESTER HILLS, MI

STORE OR BLDG NO.	008832	
VERSION OR PROJECT ID	8252	
SCALE	1" = 20'	
DESIGN TEAM	DATE	
DNVR.	E. RANDOLPH	02/05/20
P.MGR.	M. ALFIERI	02/05/20
RVWR.	C. HARTMAN	02/05/20
DRWG. NO.	8832-CG	



Know what's below.  
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NOTES:  
1. SEE DRAWING 8832-CV FOR GENERAL LEGEND

**PLAN CERTIFICATE NOTE:**

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A	OWNER REVIEW	08/15/19		
B	CITY SUBMISSION	09/25/19		
C	CITY SUBMISSION	02/05/20		
D	CITY SUBMISSION	02/25/20		

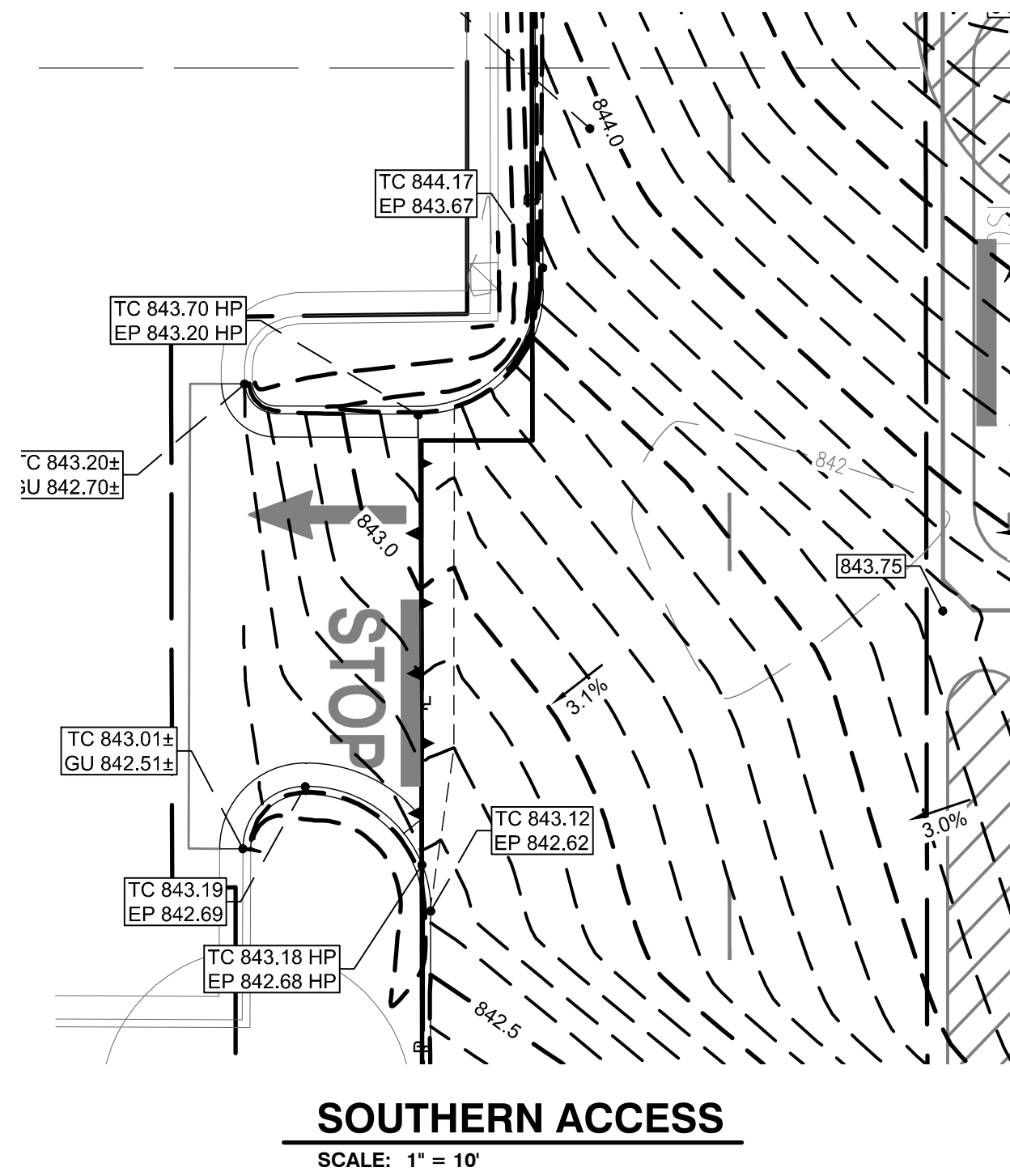
GRADING PLAN DETAILS  
(1 OF 2) REBUILD  
1010 S. ROCHESTER RD  
OAKLAND COUNTY  
ROCHESTER HILLS, MI

STORE OR BLDG NO.	008832
VERSION OR PROJECT ID	8252
SCALE	1" = 10'
DESIGN TEAM	DATE
DGNR. E. RANDOLPH	02/05/20
P.MGR. M. ALFIERI	02/05/20
RVWR. C. HARTMAN	02/05/20
DRWG. NO.	8832-CG1

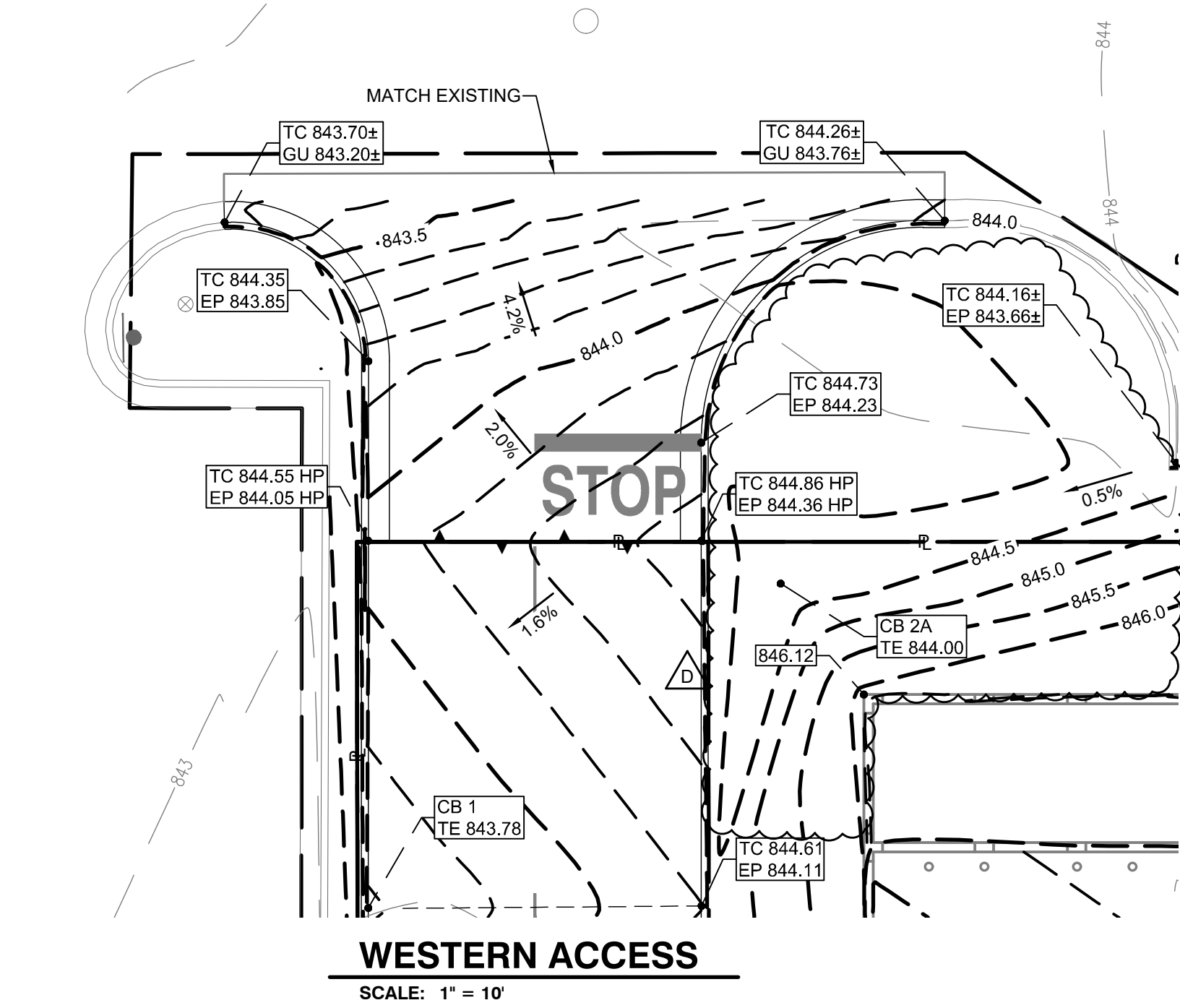
**SSOE**  
SSOE, Inc.  
1001 Madison Ave.  
Toledo, OH 43604  
Tel: (419) 265-6800  
Project # 019-06051-00

MICHAEL E. DUFFY  
ENGINEER  
No. 620104126  
26 Mar 2020

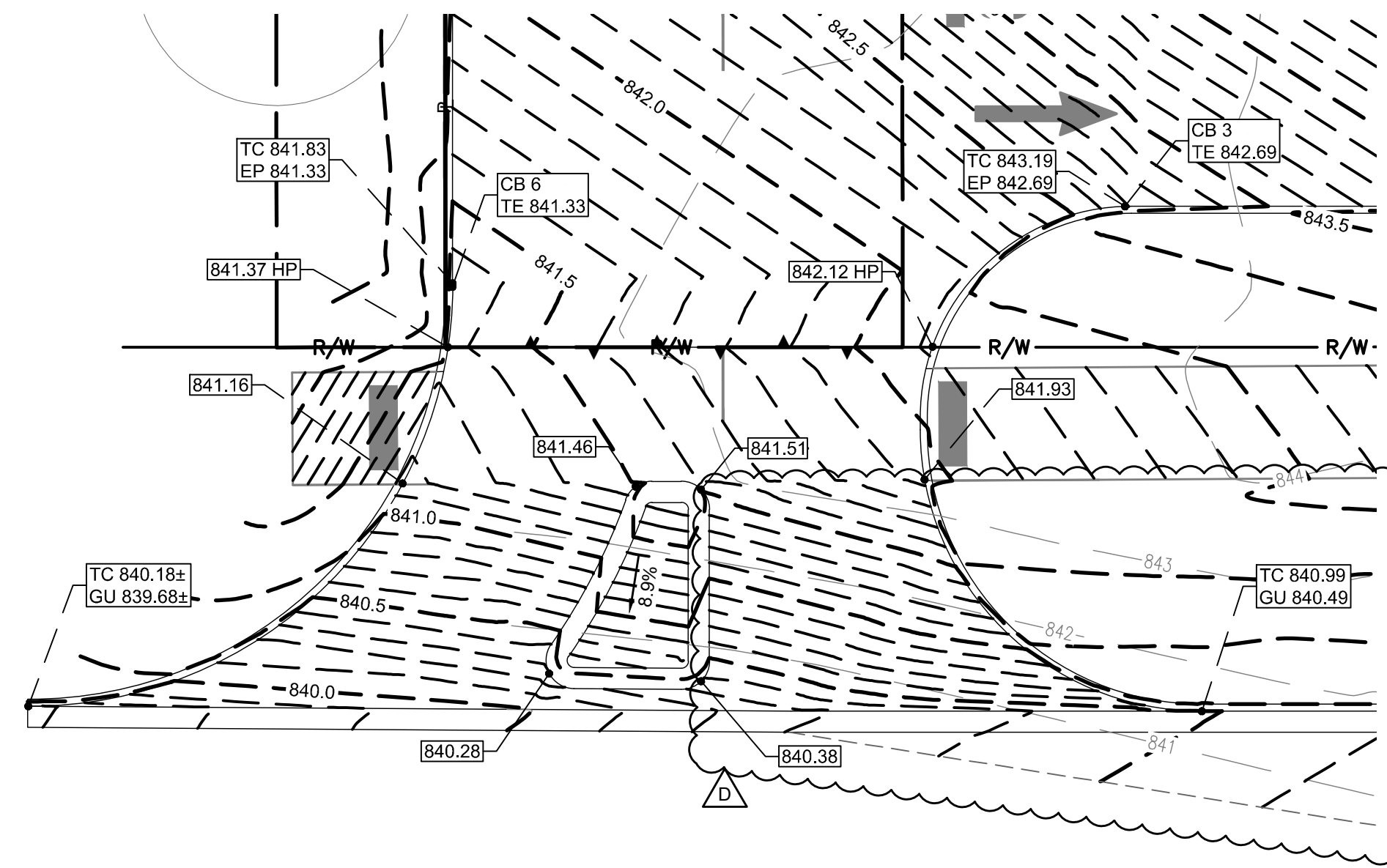
**Speedway**  
Prepared By:  
Speedway LLC  
Engineering and Construction Dept.  
Enon, OH 45323



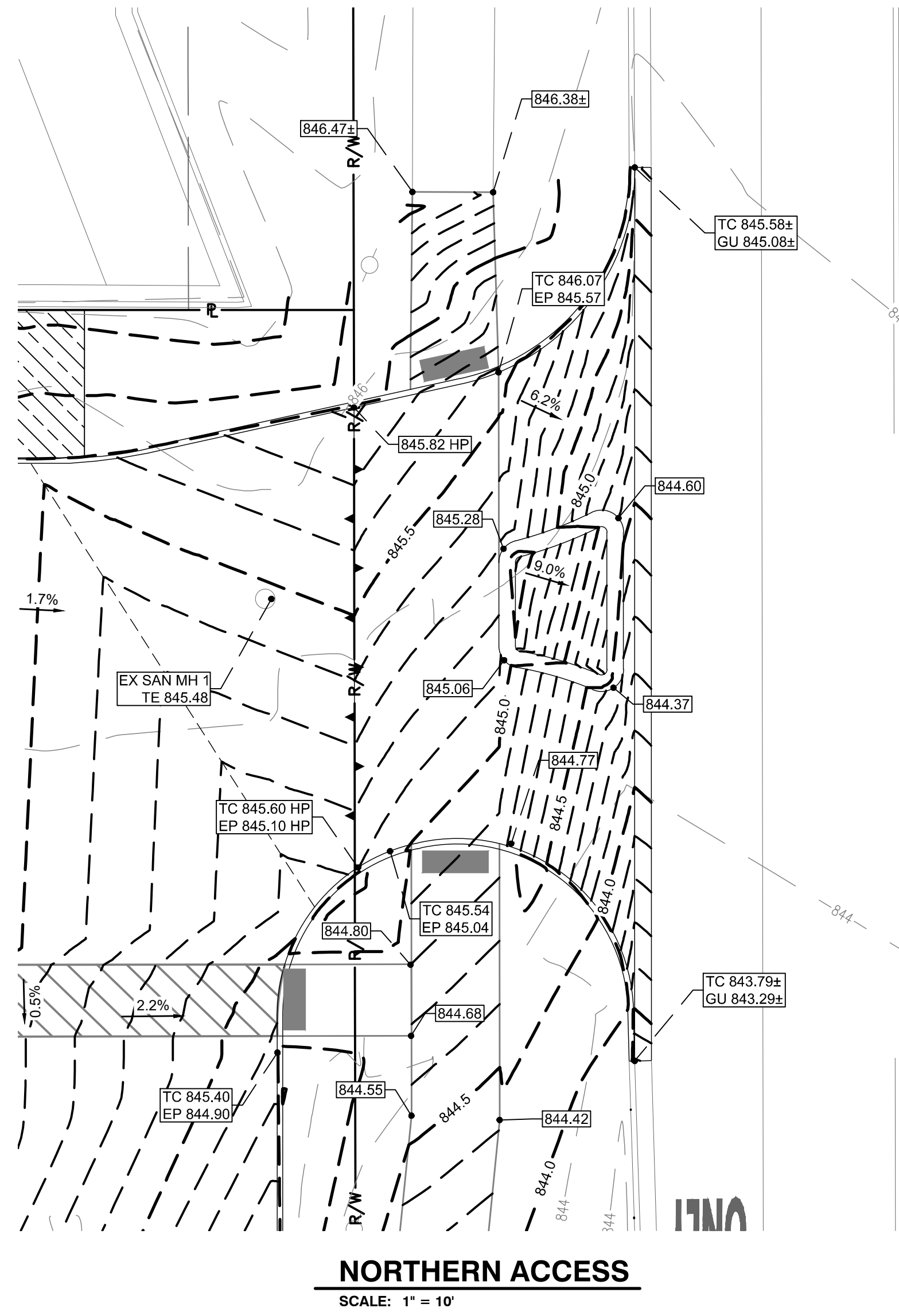
**SOUTHERN ACCESS**  
SCALE: 1" = 10'



**WESTERN ACCESS**  
SCALE: 1" = 10'



**EASTERN ACCESS**  
SCALE: 1" = 10'



**NORTHERN ACCESS**  
SCALE: 1" = 10'

**PLAN CERTIFICATE NOTE:**  
ORIGINAL ALTA, TOPOGRAPHY, UTILITIES, STORM SEWERS, AND ALL OTHER EXISTING CONDITION ITEMS WERE PREPARED BY GRIGGS QUADERER FOR SPEEDWAY LLC.



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A	OWNER REVIEW	08/15/19		
B	CITY SUBMISSION	09/25/19		
C	CITY SUBMISSION	02/05/20		
D	CITY SUBMISSION	02/25/20		

**GRADING PLAN DETAILS**  
(2 OF 2) REBUILD  
1010 S. ROCHESTER RD  
OAKLAND COUNTY  
ROCHESTER HILLS, MI

STORE OR BLDG NO.	008832
VERSION OR PROJECT ID	8252
SCALE	1" = 10'
DESIGN TEAM	DATE
DGNR. E. RANDOLPH	02/05/20
P.MGR. M. ALFIERI	02/05/20
RWR. C. HARTMAN	02/05/20
DRWG. NO.	8832-CG2

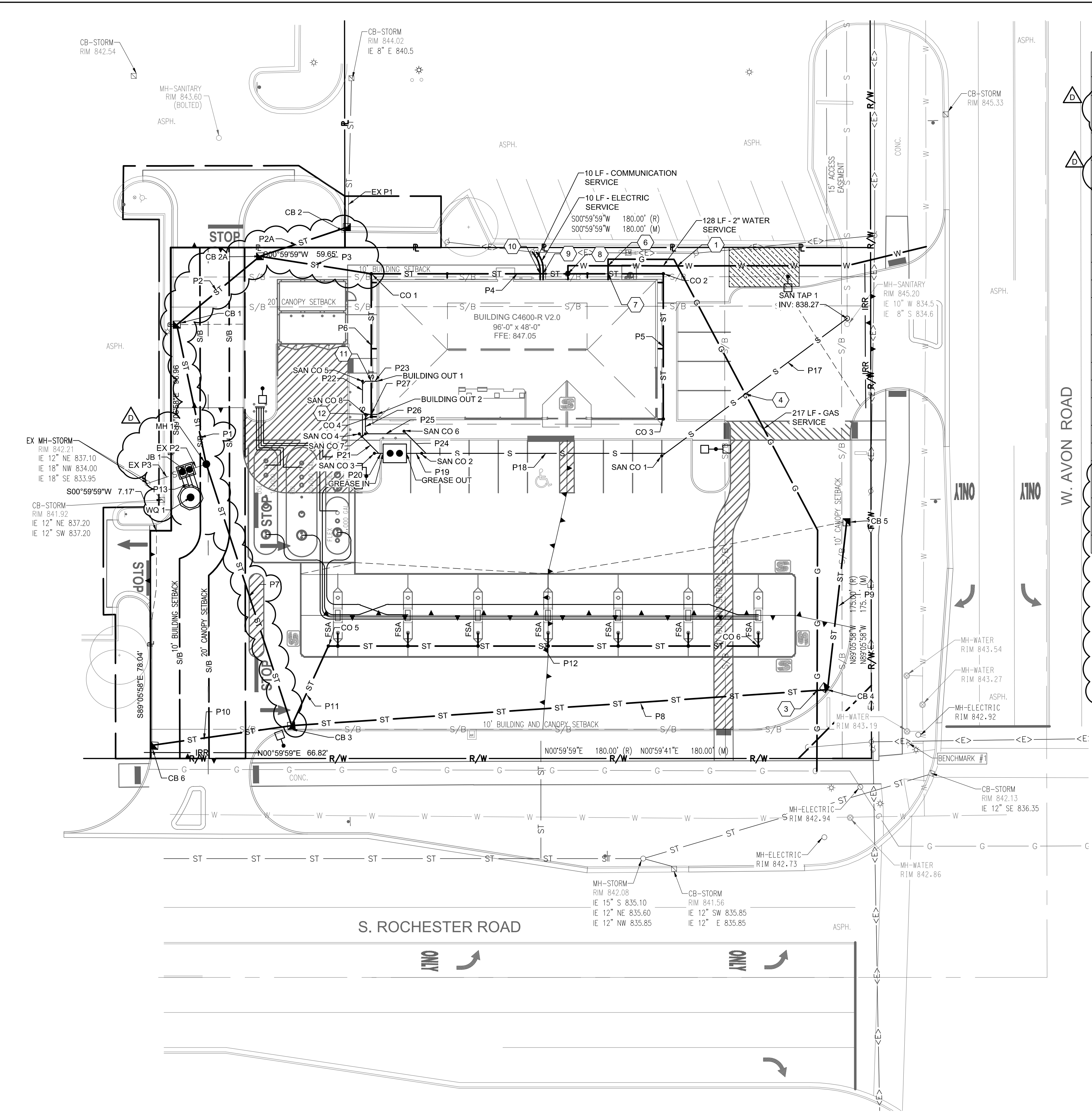
**SSOE**  
SSOE, Inc.  
1001 Madison Ave.  
Toledo, OH 43604  
Tel: (419) 255-5850  
Project # 019-00651-00

MICHAEL E. DUFFY  
REGISTERED PROFESSIONAL ENGINEER  
No. 6201044126  
26 Mar 2020

**Speedway**  
Prepared By:  
Engineering and Construction Dept.  
Enon, OH 45323

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### STORM SEWER TABLES

STORM STRUCTURE TABLE		
STRUCTURE NAME	RIM	DETAILS
CB 2A	TE: 844.00	INV: 12" N 838.75 INV: 6" N 840.34 INV: 12" SE 838.75
CB 1	TE: 843.79	INV: 12" NW 837.99 INV: 12" E 837.99
CB 2	TE: 843.67	INV: 8" W 839.66 INV: 6" S 839.35
CB 3	TE: 842.69	INV: 12" N 836.70 INV: 6" NW 838.05 INV: 12" W 836.70
CB 4	TE: 844.46	INV: 12" W 840.38 INV: 12" S 840.38
CB 5	TE: 844.49	INV: 12" E 840.96
CB 6	TE: 841.64	INV: 12" N 838.11
CO 1	TE: 846.51	INV: 6" N 841.30 INV: 6" E 839.76
CO 2	TE: 846.57	INV: 6" E 843.30 INV: 6" S 843.30
CO 3	TE: 846.91	INV: 6" W 844.29
CO 4	TE: 846.02	INV: 6" W 840.74
CO 5	TE: 844.23	INV: 6" N 838.98 INV: 6" SE 838.98
CO 6	TE: 845.43	INV: 6" S 843.40
EX MH-STORM	TE: 843.96	INV: 18" N 834.00
JB 1	TE: 844.00	INV: 6" N 841.11 INV: 18" S 834.11 INV: 18" E 834.11
MH 1	TE: 844.30	INV: 12" W 837.01 INV: 12" E 834.79 INV: 18" S 834.17 (2)
WQ 1	TE: 843.86	INV: 18" W 834.11 (2)

STORM PIPE TABLE					
NAME	SIZE	LENGTH	SLOPE	MATERIAL	
EX P1	8"	52'	1.61%		
EX P2	18"	7'	0.80%		
EX P3	18"	14'	0.80%		
P1	12"	49'	2.00%	HDPE	
P2	12"	38'	2.00%	HDPE	
P2A	12"	30'	2.00%	HDPE	
P3	6"	39'	2.50%	PVC	
P4	6"	100'	2.00%	PVC	
P5	6"	50'	2.00%	PVC	
P6	6"	49'	2.00%	PVC	
P7	12"	95'	2.00%	HDPE	
P8	12"	184'	2.00%	HDPE	
P9	12"	58'	1.00%	HDPE	
P10	12"	49'	2.00%	HDPE	
P11	6"	31'	3.00%	PVC	
P12	6"	147'	3.00%	PVC	
P13	18"	9'	0.00%	HDPE	

PIPE CROSSING TABLE		
#	ELEVATIONS	CLEARANCE
1	WATER SERVICE BOP: 838.87 GAS MAIN TOP: TBD IN FIELD	1.0' MIN.
2	NOT USED	
3	STORM BOP: 839.65 GAS SERVICE TOP: 838.65	1.00'
4	GAS SERVICE BOP: 842.21 SANITARY TOP: 839.64	2.57'
5	NOT USED	
6	GAS SERVICE BOP: 843.16 WATER SERVICE TOP: 841.66	1.50'
7	STORM BOP: 843.20 GAS SERVICE TOP: 841.70	1.50'
8	STORM BOP: 842.42 WATER SERVICE TOP: 839.16	3.26'
9	ELECTRIC BOP: 844.91 STORM TOP: 842.85	2.06'
10	COMMUNICATION BOP: 844.92 STORM TOP: 842.86	2.06'
11	SANITARY BOP: 842.49 STORM TOP: 840.51	1.98'
12	SANITARY BOP: 842.12 STORM TOP: 840.73	1.39'

STRUCTURE LABELS	
STM	STORM
SAN	SANITARY
MH	MANHOLE
CB	CATCH BASIN
CO	CLEAN OUT
JB	JUNCTION BOX
WQ	WATER QUALITY

DESCRIPTION	UTILITY LEGEND	
	PROPOSED	EXISTING
UNDERGROUND ELECTRIC	— E —	— E —
OVERHEAD ELECTRIC		< E >
POWER POLE	●	○
LIGHT POLE	□	□
UNDERGROUND COMMUNICATIONS	— C —	— C —
SANITARY SEWER	— S —	— S —
NATURAL GAS	— G —	— G —
DOMESTIC WATER	— W —	— W —
STORM SEWER	— ST —	— ST —
MANHOLE	●	○
CATCH BASIN	■	□
CLEAN OUT	▲	●
IRRIGATION SLEEVE	— IRR —	

### SANITARY SEWER TABLES

SANITARY STRUCTURE TABLE		
STRUCTURE NAME	RIM	DETAILS
BUILDING OUT 1		INV: 6" S 842.55
BUILDING OUT 2		INV: 6" S 842.18
GREASE IN		INV: 6" S 841.88
GREASE OUT		INV: 6" N 841.63
SAN CO 1	TE: 846.22	INV: 6" S 839.86 INV: 6" NW 839.82
SAN CO 2	TE: 845.61	INV: 6" S 841.50 INV: 6" SW 841.50 INV: 6" N 841.50
SAN CO 3	TE: 845.76	INV: 6" SW 841.91 INV: 6" N 841.91
SAN CO 4	TE: 845.85	INV: 6" W 842.07 INV: 6" NE 842.07
SAN CO 5	TE: 845.71	INV: 6" N 842.45 INV: 6" E 842.45
SAN CO 6	TE: 846.15	INV: 6" S 841.69 INV: 6" NE 841.69
SAN CO 8	TE: 845.98	INV: 6" W 841.97 INV: 6" N 841.97
SAN TAP 1		INV: 6" SE 838.27

SANITARY PIPE TABLE					
NAME	SIZE	LENGTH	SLOPE	MATERIAL	
P17	6"	77'	2.00%	PVC	
P18	6"	82'	2.00%	PVC	
P19	6"	7'	2.00%	PVC	
P20	6"	2'	2.00%	PVC	
P21	6"	8'	2.00%	PVC	
P22	6"	19'	2.00%	PVC	
P23	6"	5'	2.00%	PVC	
P24	6"	9'	2.00%	PVC	
P25	6"	14'	2.00%	PVC	
P26	6"	7'	2.00%	PVC	
P27	6"	4'	2.00%	PVC	

**PLAN CERTIFICATE NOTE:**  
 ORIGINAL ALTA, TOPOGRAPHY, UTILITIES, STORM SEWERS, AND ALL OTHER EXISTING CONDITION ITEMS WERE PREPARED BY GRIGGS QUADERER FOR SPEEDWAY LLC.

NOTES:  
 1. SEE DRAWING 8832-CV FOR GENERAL LEGEND



Know what's below.  
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**SSOE**  
 SSOE Inc.  
 1001 Madison Ave.  
 Toledo, OH 43604  
 Tel: (419) 255-8800  
 Project # 019-00651-00

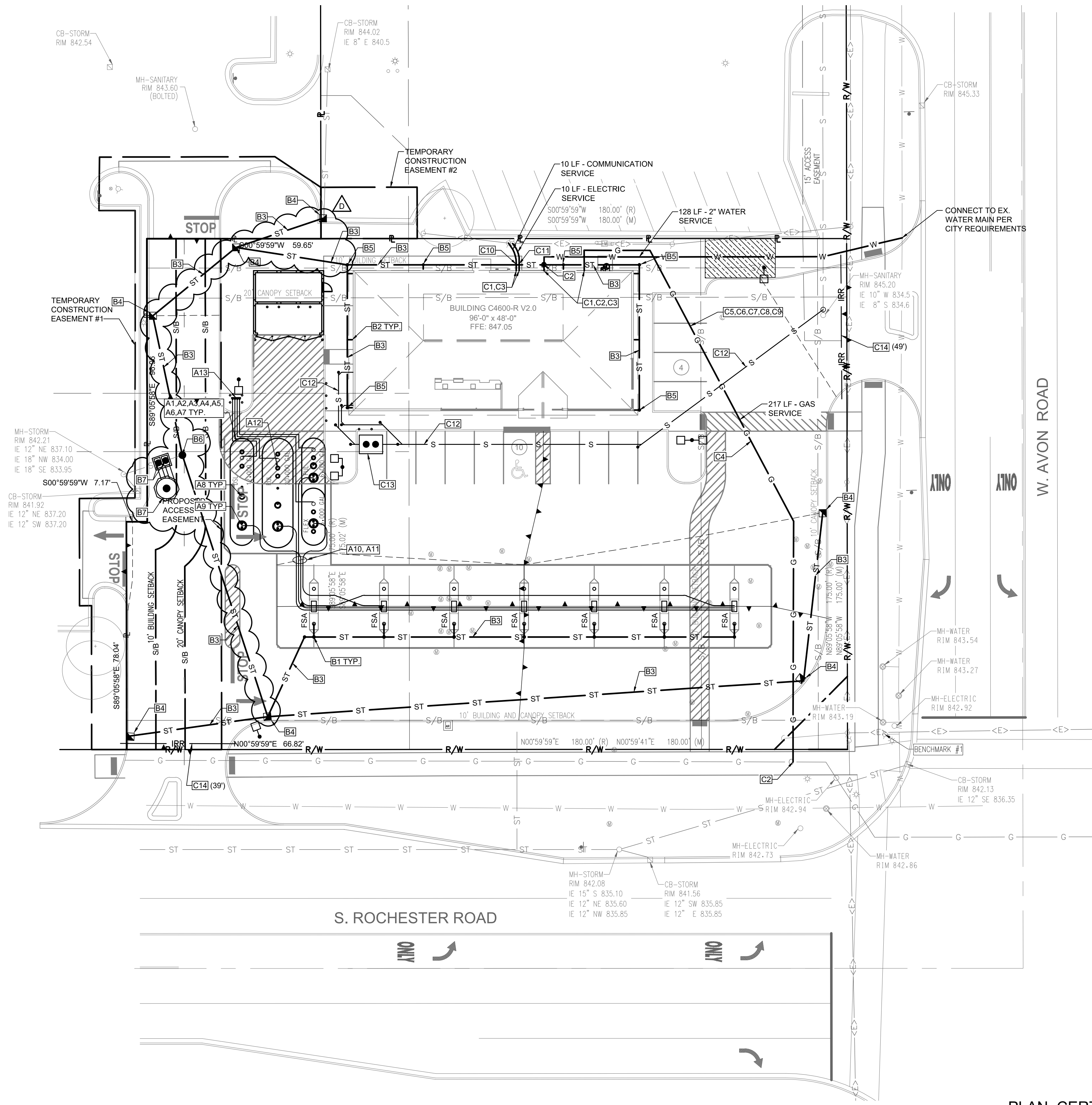
STATE OF OHIO  
 ENGINEER  
 MICHAEL E. DUFFY  
 LICENSE NO. 6201044126  
 26 Mar 2020

**Speedway**  
 Prepared By:  
 Engineering and Construction Dept.  
 Enon, OH 45323

NO.	REVISIONS	DATE
A	OWNER REVIEW	08/15/19
B	CITY SUBMISSION	09/25/19
C	CITY SUBMISSION	02/05/20
D	CITY SUBMISSION	02/25/20

PIPING & UTILITIES PLAN  
 REBUILD  
 1010 S. ROCHESTER RD  
 OAKLAND COUNTY  
 ROCHESTER HILLS, MI

STORE OR BLDG NO. 008832  
 VERSION OR PROJECT ID 8252  
 SCALE 1" = 20'  
 DESIGN TEAM DATE  
 DGNR. E. RANDOLPH 02/05/20  
 P.MGR. M. ALFIERI 02/05/20  
 RVWR. C. HARTMAN 02/05/20  
 DRWG. NO. 8832-CU



**A. TANKS AND PRODUCT PIPING DETAILS:**

- CONTRACTOR SHALL FURNISH AND INSTALL ALL MATERIAL AS INDICATED ON STD-PQ "STD-TF, AND STD-DEF" SERIES DRAWINGS.
- ALL NEW INSTALLATIONS AND MODIFICATIONS TO THE UNDERGROUND STORAGE TANK SYSTEM SHALL COMPLY WITH PEI RP100-05, PEI RP300-09, API RP15 AND ALL FEDERAL, STATE AND LOCAL CODES AND ORDINANCES.
- TANKS SHALL BE ANCHORED PER STANDARD DRAWING STD-PQ-5.
- BID AS ALTERNATE 1; SHEET PILE TANK HOLE AND FLOAT NEW TANKS INTO PLACE.
- BID AS ALTERNATE 2; SUPPLY AND INSTALL FILTER FABRIC LINER IN NEW TANK HOLE AND PRODUCT PIPING TRENCHES.
- BALLAST TANKS TO 90% FULL WITH CLEAN WATER. AFTER THE TANKS HAVE BEEN PROPERLY COVERED BY OVERBURDEN AND BEFORE PRODUCT IS DELIVERED, THE CONTRACTOR SHALL REMOVE ALL WATER. COORDINATE WITH OWNER'S REPRESENTATIVE FOR DELIVERY OF PRODUCT. ANY WATER REMAINING IN TANKS AFTER PRODUCT DELIVERY SHALL BE REMOVED AND DISPOSED OF AT THE CONTRACTOR'S EXPENSE.
- INSTALL TANK CONDUIT FROM TANK TO DISPENSER ELECTRICAL EQUIPMENT INSIDE BUILDING PER STD-PQ SERIES DRAWINGS AND MANUFACTURER'S INSTRUCTIONS.
- INSTALL FEEDER ROOT LINE LEAK DETECTION AND ATG SYSTEM, RELATED MANHOLES, CONDUITS, AND JUNCTION BOXES PER DRAWING STD-EVR-450 AND MANUFACTURER'S INSTRUCTIONS. INSTALL TANK INTERSTITIAL SENSORS FURNISHED BY OWNER.
- INSTALL TANK SUMP SENSORS FURNISHED BY OWNER.
- PRODUCT PIPING LINE-UP AND FRONT SIDE "A" (F.S. "A") OF DISPENSERS SHALL BE AS SHOWN. PIPING AND CONDUIT LOCATION AND SPACING UNDER DISPENSERS SHALL BE PER STD-PQ SERIES DRAWINGS.
- INSTALL 2" COAXIAL FLEXIBLE PRODUCT PIPING (OPW FLEX LOOP SYSTEM) WITHIN 4" ACCESS/CONTAINMENT PIPE PER MANUFACTURER'S RECOMMENDATIONS AND SERIES STD-PQ DRAWINGS. THE PIPE, APPURTENANCES (INCLUDING BULKHEAD ENTRY FITTINGS), AND MISC. MATERIALS NECESSARY TO ASSEMBLE SYSTEM SHALL BE OWNER SUPPLIED.
- INSTALL A SECOND FILL PIPE ON 20,000 GALLON TANKS PER DETAILS ON THE STD-PQ SERIES DRAWINGS.
- SUPPLY AND INSTALL 2" SINGLEWALL FIBERGLASS VENT LINES AND RELATED EQUIPMENT. CONTRACTOR TO LOCATE VENT STACKS A MINIMUM OF 10' AWAY FROM ELECTRICAL EQUIPMENT AND EXISTING BUILDING STRUCTURES.

**B. STORM PIPING:**

- A CLEANOUT SHALL BE INCLUDED AT EVERY CANOPY COLUMN WITH A DOWNSPOUT THAT IS CONNECTED TO THE STORM DRAINAGE SYSTEM AS INDICATED PER DRAWING STD-SCB-1.
- BUILDING DOWNSPOUTS SHALL BE CONNECTED TO STORM DRAINAGE SYSTEM AS INDICATED.
- SUPPLY AND INSTALL STORM DRAINAGE PIPING AS SHOWN PER STANDARD DRAWING SERIES STD-CUD.
- SUPPLY AND INSTALL (6) STANDARD DUTY CATCH BASINS, WITH SPIDER DRAINS, INCLUDING CONCRETE COLLAR IF IN ASPHALT PAVEMENT PER DRAWING STD-CUD-1.
- SUPPLY AND INSTALL CLEANOUTS AT LOCATIONS SHOWN PER DRAWING STD-CUD-1 AND STD-SCB-1.
- SUPPLY AND INSTALL (1) STANDARD DUTY MANHOLE PER DRAWING STD-CUD-1.
- SUPPLY AND INSTALL WATER QUALITY STRUCTURE PER MANUFACTURER'S SPECIFICATIONS. SEE AQUA-SWIRL AS-8 DETAIL ON SHEET CU-2.

**C. UTILITIES:**

- VERIFY ALL SERVICE UTILITY ROUTINGS WITH OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION. VERIFY ALL UTILITY CLEARANCES ARE MAINTAINED PER LOCAL CODE.
- ALL WORK WITHIN RIGHT-OF-WAY SHALL CONFORM TO GOVERNING STATE AND/OR LOCAL SPECIFICATIONS.
- SITE CONTRACTOR TO BRING UTILITIES WITHIN 5' OF BUILDING AT LOCATIONS SHOWN. COORDINATE ALL BUILDING UTILITY CONNECTIONS WITH BUILDING DRAWINGS.
- CONTRACTOR SHALL FURNISH AND INSTALL 2" COPPER WATER LINE FROM METER TO EXISTING 6" MAIN. CONTRACTOR SHALL FURNISH AND INSTALL A 2" METER. CONTRACTOR SHALL INSTALL THE WATER LINE FROM THE METER TO THE BUILDING SERVICE PER THE BUILDING DRAWINGS. CONTRACTOR SHALL COORDINATE INSTALLATION WITH WATER COMPANY.
- CONTRACTOR SHALL FURNISH AND INSTALL 1.25" GAS LINE FROM METER TO NEW TAP. THE CONTRACTOR SHALL INSTALL THE GAS LINE FROM THE METER TO THE BUILDING SERVICE PER THE BUILDING DRAWINGS AND AT LEAST 36 INCHES BELOW FINISH GRADE. IF NATURAL-GAS PIPING IS INSTALLED LESS THAN 36 INCHES BELOW FINISH GRADE, INSTALL IT IN CONTAINMENT CONDUIT. CONTRACTOR SHALL COORDINATE INSTALLATION WITH GAS COMPANY.
- INSTALL UNDERGROUND, PE, NATURAL-GAS PIPING ACCORDING TO ASTM D2774.
- INSTALL SHUTOFF VALVE DOWN STREAM FROM GAS METER AND OUTSIDE OF BUILDING AT GAS SERVICE ENTRANCE.
- INSTALL SERVICE METERS TO COMPLY WITH GAS COMPANY REQUIREMENTS.
- UNDERGROUND, NATURAL-GAS PIPING SHALL BE PE PIPE AND FITTINGS JOINED BY HEAT FUSION OR MECHANICAL COUPLINGS; SERVICE-LINE RISERS WITH TRACER WIRE TERMINATED IN AN ACCESSIBLE LOCATION.
- CONTRACTOR SHALL FURNISH AND INSTALL (1) 2" PVC CONDUIT WITH PULL STRING FROM TELEPHONE SERVICE CONNECTION TO BUILDING.
- NEW UNDERGROUND 120/208V THREE PHASE ELECTRIC SERVICE SHALL BE INSTALLED PER BUILDING DRAWINGS. CONTRACTOR SHALL INSTALL CONDUITS AND CONDUCTORS FROM POLE MOUNTED TRANSFORMER TO BUILDING.
- INSTALL 6" PVC SANITARY SEWER LINE FROM BUILDING TO APPROPRIATE SERVICE LATERAL PER FIELD CONDITIONS. MINIMUM SLOPE SHALL BE 1.0%. INSTALL CLEAN-OUTS EVERY 100' ALONG SEWER LINE.
- INSTALL EXTERIOR GREASE TRAP PER DRAWING STD-CUD-1 AND/OR LOCAL REGULATIONS. (500' GAL. MINIMUM)
- INSTALL 3" PVC SLEEVE FOR IRRIGATION LINES UNDER APPROACHES.
- BID AS ALTERNATE: CONTRACTOR SHALL DESIGN, SUPPLY, AND INSTALL IRRIGATION SYSTEM FOR ALL SODDED AND PLANTER AREAS AS SHOWN ON LANDSCAPE PLAN. DESIGN SHALL BE APPROVED BY OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION. INSTALL (1) ADDITIONAL 3/4" DIAMETER WATER LINE WITH METER FOR IRRIGATION SYSTEM.

**PLAN CERTIFICATE NOTE:**

ORIGINAL ALTA, TOPOGRAPHY, UTILITIES, STORM SEWERS, AND ALL OTHER EXISTING CONDITION ITEMS WERE PREPARED BY GRIGGS QUADERER FOR SPEEDWAY LLC.

NOTES:  
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**ssoe**  
SSOE Inc.  
1001 Madison Ave.  
Toledo, OH 43604  
(419) 245-5850  
Project # 019-06051-00

MICHAEL E. DUFFY  
ENGINEER  
No. 6201044126  
26 Mar 2020

**Speedway**  
Prepared By:  
Engineering and Construction Dept.  
Enon, OH 45323

NO.	REVISIONS	DATE
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