ENGINEER'S QUANTITY LIST: TOTAL

10/28/2021 Christian Covenant Church W Hamlin Rd, Rochester Hills, MI

DESCRIPTION	QUANTITY	UNIT
8" D.I. Watermain Cl-54	400	L.F.
Fire Hydrant	1	EA.
Concrete sidewalk	1,672	S.F.
4" asphalt w/aggregate base	8,879	S.F.

Legal Description:

A PARCEL OF LAND IN THE SOUTHWEST \$\frac{1}{4}\$ OF SECTION 22, TOWN 3 NORTH, RANGE 11 EAST, CITY OF ROCHESTER HILLS, OAKLAND COUNTY, MICHIGAN MORE PARTICULARLY

COMMENCING AT THE SOUTHWEST CORNER OF SECTION 22; THENCE N87°10'11"E ALONG THE SOUTH LINE OF SECTION 22 335.00 FEET TO 660.00 FEET; THENCE N87'28'20"E 330.00 FEET; THENCE S02'31'40"E 660.00 FEET TO A POINT ON THE SOUTH LINE OF SECTION 22; THENCE S87*28'20"W 330.00 FEET TO THE POINT OF BEGINNING.

CONTAINING 217,800 SQUARE FEET OR 5.00 ACRES OF LAND SUBJECT TO ALL EASEMENT AND RESTRICTIONS OF RECORD, IF ANY.

Benchmarks:

1) PVMT C.B. IN WEST HAMLIN ROAD AS SHOWN PLAN RIM=(837.01) NAVD88

2) WATER GATE VALVE IN EAST APPROACH FROM WEST HAMLIN ROAD AS SHOWN ON PLAN RIM=(841.53) NAVD88

Site Plan Review Reviewed for compliance to the City Ordinance, Building and Fire Codes				
Department Planning	Kristen Kapelanski 248-841-2772 KapelanskiK@RochesterHills.org	Approved Yes		
Building	Mark Artinian 248-841-2446 ArtinianM@RochesterHills.org	Yes		
Engineering	Jason Boughton 248-841-2490 BoughtonJ@RochesterHills.org	Yes		
Traffic	Keith Depp 248-841-2503 DeppK@RochesterHills.org	Yes		
Nat. Resources	Matt Einheuser 248-841-2551 EinheuserM@RochesterHills.org	Yes		
Fire	Lt. Josh Boyce 248-841-2713 BoyceJ@RochesterHills.org	Yes		
City of Rochester Hills Planning & Economic Development				
Conditions and mark-ups noted throughout the plan set must be addressed prior to final approval.				

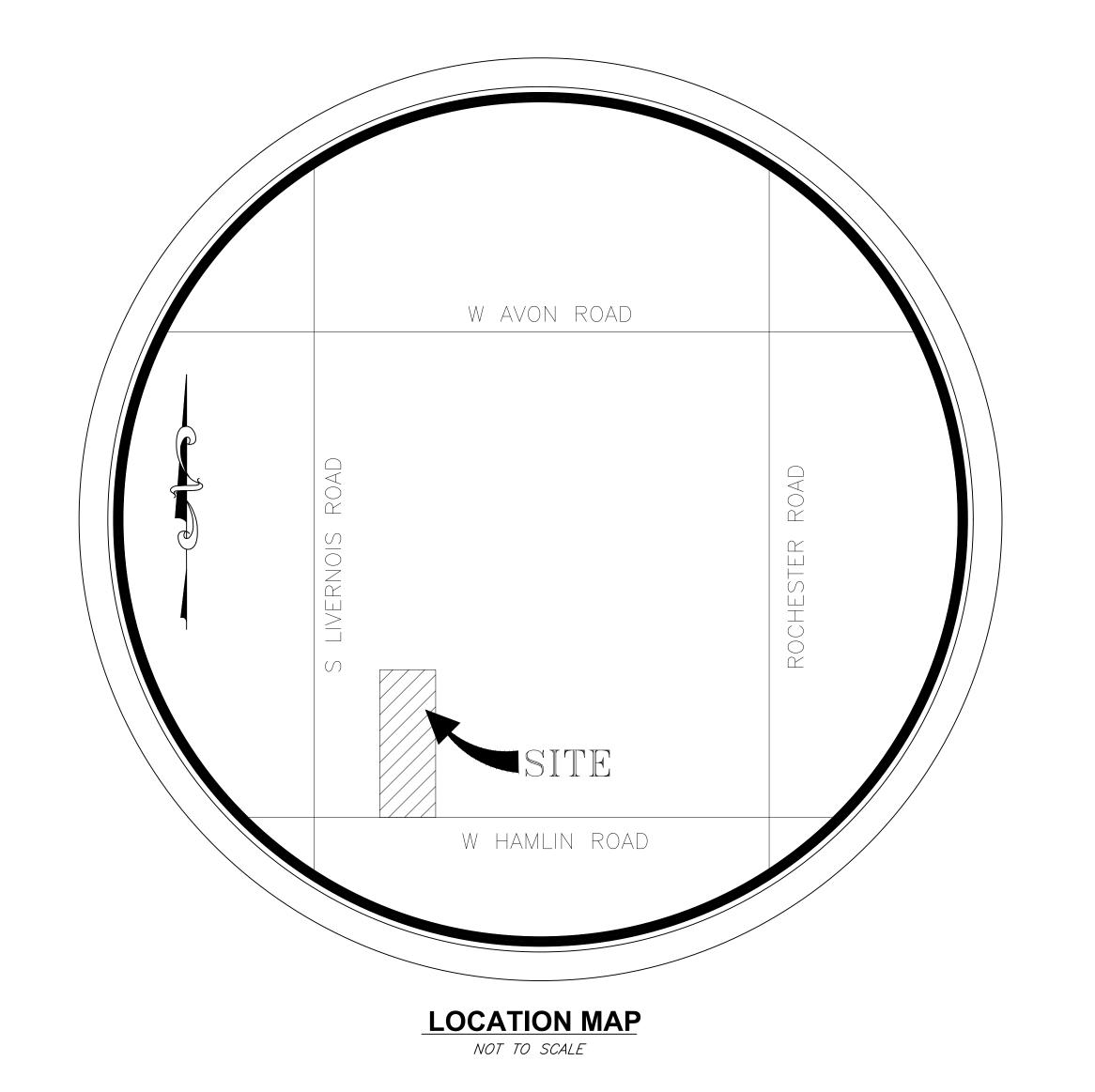
Description Legend: TC - TOP OF CURB TW - TOP OF WALK TD - TOP OF DRIVE ME - MATCH EXISTING FG - FINAL (FINISHED) GRADE SW - SWALE HP - HIGH POINT CB - CATCH BASIN GFF - GARAGE FINISH FLOOR FF - FIRST FINISH FLOOR BFF - BSMT. FINISH FLOOR STM-MH - STORM MANHOLE SAN-MH - SANITARY MANHOLE ME - MATCH EXISTING SIM-MH - STORM MANHOLE SAN-MH - SANITARY MANHOLE BLDG - BUILDING T/WALL - TOP OF WALL B/WALL - BOTTOM OF WALL GRADE - TOPOGRAPHY SPOT G TREE - EXISTING TREE BSMT - BASEMENT UNEX - UNEXCAVATED EOP - EDGE OF PAVEMENT EOG - EDGE OF GRAVEL P - PORCH W/B - WATER BOX - BOTTOM OF WALL - TOPOGRAPHY SPOT GRADE - EXISTING TREE W/B - WATER BOX IF - IRON FOUND MF - MONUMENT FOUND

EXISTING	DESCRIPTION	PROPOSED
	SILT FENCE STORM SEWER SANITARY SEWER WATER MAIN GAS MAIN OVERHEAD WIRES UNDERGROUND TELEPHONE OVERHEAD ELECTRIC UNDERGROUND ELECTRIC FENCE OR GUARDRAIL RIGHT-OF-WAY EASEMENT PROPERTY LINE SETBACK LINE ROADWAY CENTERLINE	S — S — C — C — C — C — C — C — C — C —
800	CONTOUR	800
(S)	SANITARY MANHOLE	S
\ominus	STORM MANHOLE	
	REAR-YARD CATCH BASIN	Ø
∭ AYA	STREET CATCH BASIN	⊠ ⊗ <u>¥</u> ⊘
	FIRE HYDRANT	
	PIPE REDUCER	
\otimes	VALVE AND VAULT, VALVE	₩
) (Flared end Section Street light Guy Wire Utility Pole Sign	O 4
× 800.00	SPOT ELEVATION	× 800.00
	SOIL BORING	•
1.0%	OVERLAND FLOOD ROUTE DRAINAGE SLOPE	1.0%
	WATER'S EDGE OR @ OF DITCH	
	TREE, FIR TREE, BUSH	
lack	SECTION CORNER	
	CURB AND GUTTER CLEANOUT	

A conditional use permit is required for the proposed drive-through. Refer to Section 138-1.203 of the Zoning Ordinance for required signage that must be placed on the property 15 calendar days prior to the public hearing.

900 W. Hamlin Rd - Cover Sheet

SECTION 22 T. 3N., R. 11E., ROCHESTER HILLS, OAKLAND COUNTY, MICHIGAN



INDEX OF SHEETS

- 1.) COVER
- 2.) EXISTING CONDITIONS/TOPOGRAPHY
- 3.) SITEPLAN
- 4.) DEMOLITION PLAN
- 5.) WATERMAIN AND PROFILE
- 6.) PAVING
- 7.) WATERMAIN DETAIL SHEET 1
- 8.) WATERMAIN DETAIL SHEET 2
- 9.) WATERMAIN SPECIAL DETAILS

OWNER COVENANT CHRISTIAN CHURCH CLAY BERNIER 900 WEST HAMLIN ROAD ROCHESTER HILLS, MI. 48307 (586) - 703 - 0046

SURVEYOR / ENGINEER

MAURO ENGINEERING 48657 HAYES ROAD SHELBY TOWNSHIP, MI 48315 (586) 247-2800



1.) Assumes no responsibility for given house dimensions. Client must verify dimensions prior to const. 2.) This plan shall not be used to set foundations

3.) Setbacks shown on this plot plan were obtained from the municipality. Since deed restrictions are not supplied by the municipality, the client must verify any special Subdivision restrictions. 4.) Lead locations shown on plan are approx. from approved plans. Contractor to field verify all 5.) Assumes no responsibility for house placement designed within 0.5' of approved setbacks. 6.) No title work given at the time of survey

UNAUTHORIZED USE OF THIS DRAWING WITHOUT WRITTEN PERMISSION FROM MAURO ENGINEERING

IS STRICTLY PROHIBITED, AND IS A VIOLATION OF U.S. COPYRIGHT LAWS AND WILL BE SUBJECT TO CIVIL DAMAGES AND PROSECUTION

COVENANT CHURCH

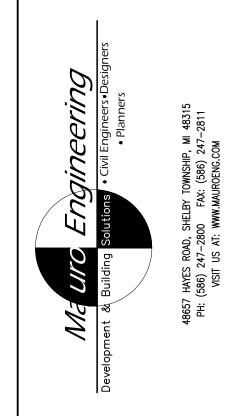
PROJECT LOCATION:

ROCHESTER HILLS

07-12-2021

SCALE:

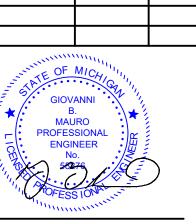
006





ELIMINARY CONSTRUCTION Checked By: G.M. Approved By: S.M.

Date: By: PER CITY COMM. 2021-10-11 A.S.



SIMONE B. MAURO, P.E. - No. 30592 GIOVANNI B. MAURO, P.E. - No. 58276 21-104

OF: **9**

The applicant needs to submit a Land Improvement Permit (LIP) application with engineer's estimate, fee and construction plans to proceed with the construction plan review process

SILT FENCE JOINT

9.) THE NEAREST WATER COURSE IS

THE CLINTON RIVER 3,200 FEET TO THE

10.) LIMITS OF EARTH DISRUPTION WILL

11.) SOIL EROSION CONTROL MEASURES

BASIS AND AFTER EACH STORM EVENT

12.) TYPE OF PERMANENT VEGETATIVE

EŚTORATION WILL BE SEED & MULCH

POSITIVE DRAINAGE PER MASTER

Soil Erosion Notes:

1) INSTALL EROSION CONTROL MEASURES PRIOR TO CONSTRUCTION. 2) ALL SOIL EROSION MEASURES MUST BE IN PLACE PRIOR TO ANY EARTH MOVEMENT

3) COMPLETE ALL EARTH MOVEMENT. 4) RIGHT-OF-WAY MUST BE STABILIZED PRIOR TO FINAL GRADE INSPECTION. 5) ALL SWALE AREAS, ALL SLOPES GREATER HAN 1:5 AND 10' AROUND STORM

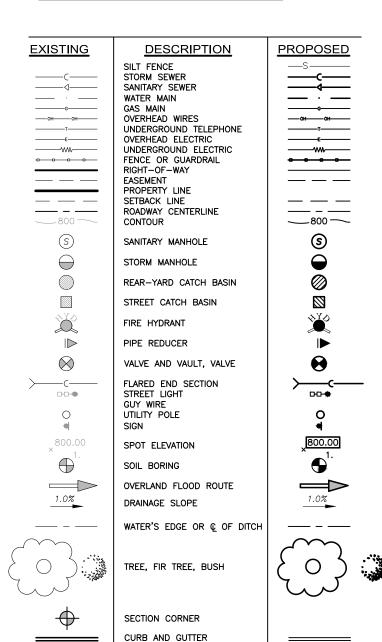
(Capac sandy loam)

FINAL GRADE CERTIFICATION. 6) AFTER PERMANENT EARTH STABILIZATION IS COMPLETED, REMOVE EROSION CONTROL MEASURES. 7.) SOIL TYPES FOR THIS LOT ARE: 10B: (Marlette sandy loam) 11B:

CONSTRUCTION SEQUENCE SOIL EROSION CONTROL MEASURE

VEWAY & SIDEWALK CONSTRUCTION

Description Legend TW - TOP OF WALK ME - MATCH EXISTING FG - FINAL (FINISHED) GRADE SW - SWALE CB - CATCH BASIN
GFF - GARAGE FINISH FLOOR
FF - FIRST FINISH FLOOR BFF - BSMT. FINISH FLOOR STM-MH - STORM MANHOLE BUILDING TOP OF WALL B/WALL -GRADE -BOTTOM OF WALL TOPOGRAPHY SPOT GRADE BASEMENT UNEXCAVATED EDGE OF GRAVEL W/B - WATER BOX IF - IRON FOUND MF - MONUMENT FOUND



TELEPHONE RISER

SOIL EROSION AND SEDIMENTATION CONTROL NOTES AND MAINTENANCE NOTES

SOIL FROSION AND SEDIMENTATION CONTROL ACT AND THE MCSESC ORDINANCE. 2. ALL EROSION AND SEDIMENT CONTROL WORK SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF THE 3. EROSION AND ANY SEDIMENTATION FROM WORK ON THIS SITE SHALL BE CONTAINED ON THE SITE AND NOT ALLOWED

THESE PLANS AND AS REOUIRED TO ENSURE PROGRESSIVE STABILIZATION OF DISTURBED EARTH CHANGE. 5. THE LANDOWNER OR LANDOWNER'S REPRESENTATIVE SHALL BE RESPONSIBLE FOR INSTALLATION AND MAINTENANCE 6. THE LANDOWNER OR LANDOWNER'S REPRESENTATIVE SHALL IMPLEMENT AND MAINTAIN SOIL EROSION CONTROL MEASURES AS SHOWN ON THE PLANS BEFORE AND AT ALL TIMES DURING CONSTRUCTION ON THIS PROJECT. ANY MODIFICATIONS OR ADDITIONS TO SOIL EROSION CONTROL MEASURES DUE TO CONSTRUCTION OR CHANGED

CONDITIONS SHALL BE COMPLIED WITH AS REQUIRED OR DIRECTED BY THE MACOMB COUNT PUBLIC WORKS OFFICE. 7. IF ANY OF THESE SESC MEASURES ON THE SITE ARE DEEMED INADEQUATE OR INEFFECTIVE, THE MACOMB COUNTY PUBLIC WORKS OFFICE, SESC DIVISION, HAS THE RIGHT TO REQUIRE ADDITIONAL SESC MEASURES AT THE EXPENSE OF

8. INSTALL A CRUSHED CONCRETE ACCESS DRIVE PLACED ON GEOTEXTILE FABRIC AS INDICATED ON THE PLAN. THE ACCESS DRIVE MUST BE A MINIMUM OF 30'x50'x8". A. NEW LAYERS OF CRUSHED CONCRETE WILL BE ADDED AS OLD LAYERS BECOME COMPACTED. 9.INSTALL SILT FENCE AS INDICATED ON PLAN AND AT ADDITIONAL AREAS AS NECESSARY.

a. SITT FENCE SHALL BE INSTALLED PER DETAIL

b. BUILT-UP SEDIMENT SHALL BE REMOVED WHEN SEDIMENT ACCUMULATED TO 1/3 TO 1/2 OF THE HEIGHT OF THE c. IF SILT FENCE FABRIC DECOMPOSES OR BECOMES INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND BARRIER IS STILL REQUIRED, THE FABRIC SHALL BE REPLACED PROMPTLY. LIFE AND BARKIER IS STILL REQUIRED, THE FABRIC SHALL BE REPLACED PROMPTLET.

d. SILT FENCE SHALL BE INSPECTED WEEKLY UNDER NORMAL CONDITIONS, WITHIN 24 HOURS OF RAINFALL AND DAILY DURING A PROLONGED RAIN EVENT. REQUIRED MAINTENANCE SHALL BE PROVIDED PROMPTLY.

10. INSTALL INLET FILTERS ON ALL PAVEMENT CATCH BASINS PER DETAIL. INLET FILTERS SHALL BE INSPECTED WEEKLY e. UNDER NORMAL CONDITION, WITHIN 24 HOURS OF RAINFALL AND DAILY DURING A PROLONG RAIN EVENT. f. BUILDUP OF SEDIMENT SHALL BE REMOVED PROMPTLY. FABRIC DECOMPOSES OR BECOMES INEFFECTIVE PRIOR TO THE END OF THE EXPECTED LIFE AND THE BARRIER IS STILL REQUIRED, THE FABRIC SHALL BE REPLACED PROMPTLY.

1. INSTALL SEDIMENT-CATCH TYPE DEVICE, AND/OR PROVIDE SILT FENCE WITH SOD AROUND REAR YARD CATCH BASIN h. REAR YARD CATCH BASINS SHALL BE INSPECTED WEEKLY UNDER NORMAL CONDITIONS WITHIN 24 HOURS OF i. BUILT-UP SEDIMENT SHALL BE REMOVED WHEN SEDIMENT ACCUMULATES TO 1/3 TO 1/2 THE HEIGHT OF THE SILT

I. IF FABRIC DECOMPOSES OR BECOMES INEFFECTIVE PRIOR TO THE END OF THE EXPECTED LIFE AND THE BARRIER IS STILL REQUIRED, THE FABRIC SHALL BE REPLACED PROMPTLY. 12. ALL STOCKPILED SOILS MUST MAINTAINED IN SUCH A WAY AS TO PREVENT EROSION FROM LEAVING THE SITE. IF THE OCKPILE WILL BE ONSITE FOR MORE THAN 30 DAYS, THE STOCKPILE MUST BE SEEDED. SILT FENCE MUST BE INSTALLED AROUND THE PERIMETER OF THE STOCKPILE. 13. IMMEDIATELY AFTER SEEDING, MULCH ALL SEEDED AREAS WITH UNWEATHERED SMALL GRAIN STRAW, SPREAD

3. IMMEDIATEL AFTER SEEDING, MOLCH ALL SEEDED AREAS WITH ONWEATHERED SMALL SHARW, SPACEAU INIFORMLY AT THE RATE OF 12 TO 2 TONS PER ACRE OR 100 POUNDS (2-3 BALES) PER 1000 SQUARE FEET. THIS MULCH SHOULD BE ANCHORED WITH A DISC TYUPE MULCH ANCHORING TOOL OR OTHER MEANS AS APPROVED BY THE MACOMB 14. IF ANY DEWATERING IS NEEDED, IT SHALL BE DISCHARGED THROUGH A FILTER BAG OVER A WELL VEGETATED AREA. THE PUMP MUST DISCHARGE AT A NON-EROSIVE VELOCITY. IF NECESSARY, AN APPROVED ENERGY DISSIPATER MAY BE

15. ALL DIRT STACKED ONTO ANY ROADWAY SHALL BE REMOVED IMMEDIATELY.

16. STREETS AND OR PARKING AREAS WILL BE SCRAPED ON A DAILY BASIS AND SWEPT AT A MINIMUM OF ONCE PER WEEK BY THE LANDOWNER OR LANDOWNER'S REPRESENTATIVE. 17. DURING DRY PERIODS, ALL DISTURBED AREAS SHALL BE WATERED FOR DUST CONTROL. 18. PERMANENT SOIL EROSION CONTROL MEASURES FOR ALL SLOPES, CHANNELS, DITCHES OR ANY DISTURBED LAND

AREAS SHALL BE COMPLETED WITHIN 5 CALENDAR DAYS AFTER FINAL GRADING OR THE FINAL EARTH CHANGE HAS BEEN COMPLETED WHEN IT IS NOT POSSIBLE TO PERMANENTLY STABILIZE A DISTURBED AREA AFTER EARTH CHANGE HAS BEEN COMPLETED OR WHERE SIGNIFICANT EARTH CHANGE ACTIVITY CEASES, TEMPORARY SOIL EROSION MEASURES SHALL BE IMPLEMENTED IMMEDIATELY. ALL TEMPORARY SOIL EROSION CONTROL MEASURES WILL BE MAINTAINED UNTIL PERMANENT SOIL EROSION CONTROL MEASURES ARE IMPLEMENTED. ALL PERMANENT SOIL EROSION CONTROL MEASURES ILL BE IMPLEMENTED AND ESTABLISHED BEFORE A CERTIFICATE OF COMPLIANCE IS ISSUED. 19. FINAL GRADE, ESTABLISH VEGETATION AND OR LANDSCAPE ALL DISTURBED AREAS NOT BUILT OR PAVED UPON.

A SedCage $^{\textcircled{\textbf{M}}}$ IS COMPATIBLE WITH ALL GRATES IN WHICH THE EDGES OF THE GRATE ARE SUPPORTED BY A LEDGE.

SedCatch® SedCage® - Yard Inlet Protection

ET PROTECTION SHALL BE INSTALLED AT THE TIME THE STRUCTURE IS SET,
INSTALL; TUCK FABRIC UNDER GRATE.
MOVE SEDIMENT IF IT ACCIMULIES TO ONE HALF THE HEIGHT OF THE SedCoge®
E AREA AROUND THE SedCoge® SHOULD BE AS FLAT AS POSSIBLE TO INCREASE EFFECTIVENESS AND REDUCE
INTERNACE REQUIREMENTS.

I. AS WITH ALL INLET PROTECTION DEVICES, CHECK TO SEE HOW DEEP THE WATER COULD RISE IF THE INLET WERE BLOCKED ENTIRELY.

DO NOT INSTALL IN LOCATIONS THAT COULD CAUSE PROPERTY DAMAGE OR POSE A SAFETY HAZARD TO TRAFFIC.

TEMPORARY STONE ACCESS DRIVE

PLAN VIEW

CROSS SECTION A-A

Tree List:

WHITE PINE

WHITE PINE

WHITE PINE

WHITE PINE

CRAB APPLE

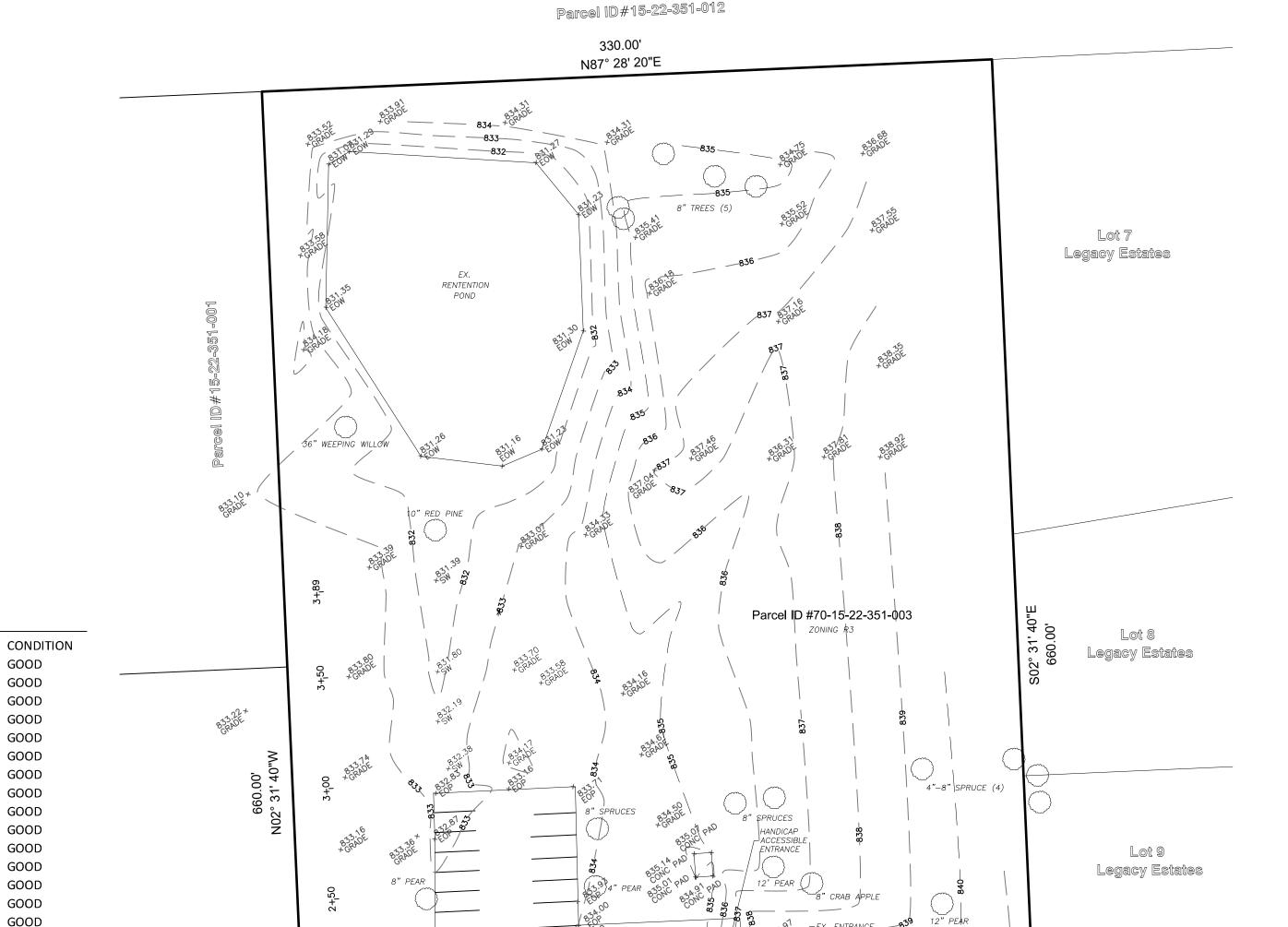
CRAB APPLE

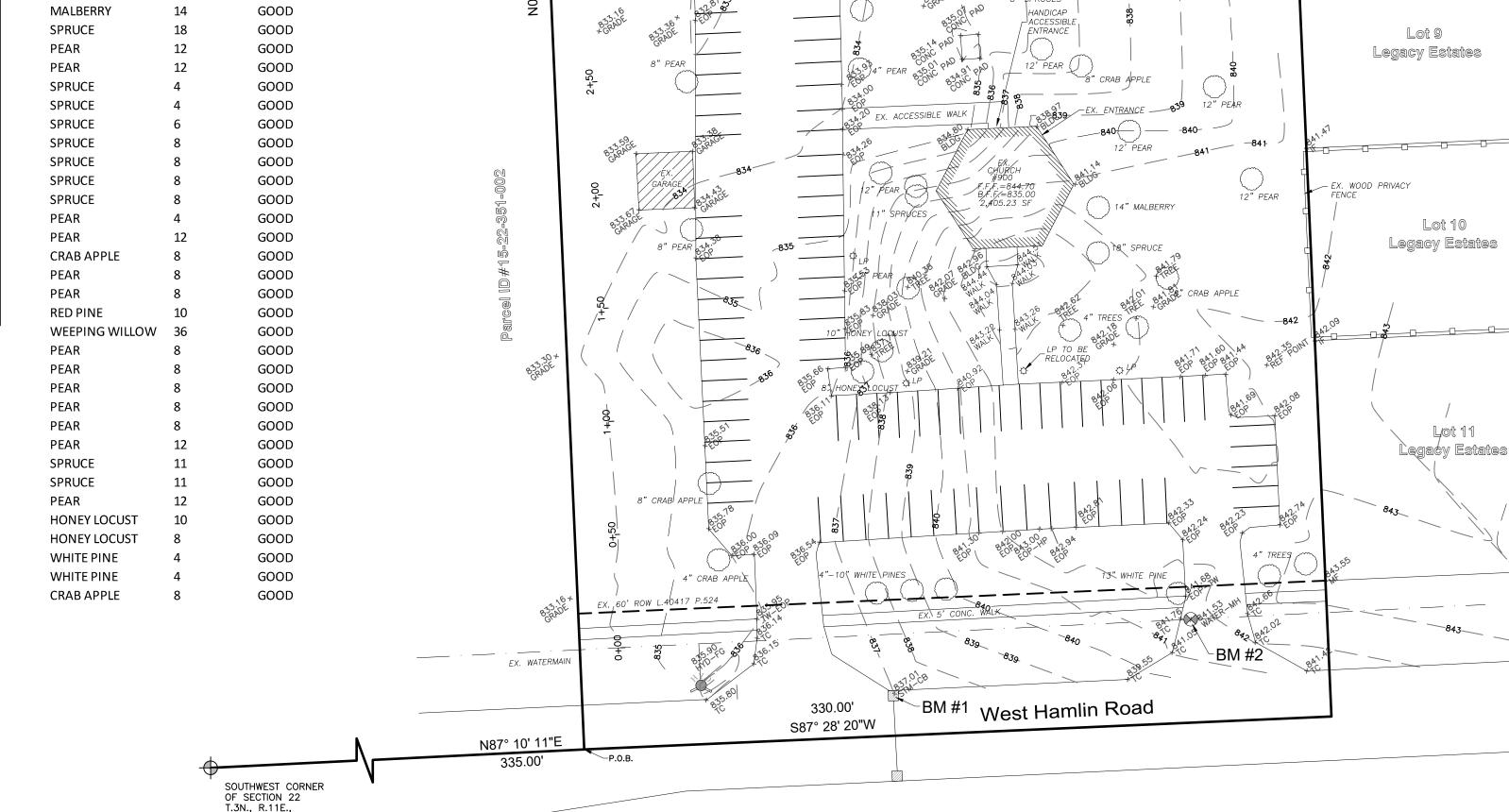
WHITE PINE

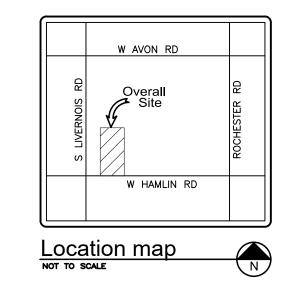
WHITE PINE

900 W. Hamlin Rd - Topography/Ex. Conditions THIS PROJECT SHALL BE CONSTRUCTED IN COMPLIANCE WITH PART 91 OF ACT 451 OF 1994, AS AMENDED, THE TO COLLECT ON ANY OFFSITE AREAS OR IN WATERWAYS. WATERWAYS INCLUDE NATURAL AND MANMADE OPEN DITCHES, STREAMS, STORM DRAINS, LAKES AND PONDS.

SECTION 22 T. 3N., R. 11E., ROCHESTER HILLS, OAKLAND COUNTY, MICHIGAN







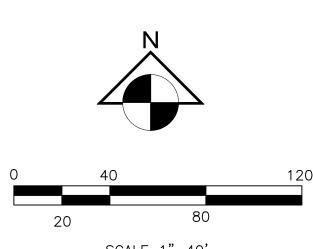
Onsite Contact:

Legal Description:

SECTION 22, TOWN 3 NORTH, RANGE 11 EAST, CITY OF ROCHESTER HILLS, OAKLAND COUNTY, MICHIGAN MORE PARTICULARLY

COMMENCING AT THE SOUTHWEST CORNER OF SECTION 22; THENCE N87*10'11"E ALONG THE SOUTH LINE OF SECTION 22 335,00 FEET TO POINT OF BEGINNING: THENCE NO2°31'40"W 660.00 FEET: THENCE N87°28'20"E 330.00 FEET: THENCE S02°31'40"E 660.00 FEET TO A POINT ON THE SOUTH LINE OF SECTION 22; THENCE S87°28'20"W 330.00 FEET TO

ACRES OF LAND SUBJECT TO ALL EASEMEN AND RESTRICTIONS OF RECORD, IF ANY,



Sheet Index:

4) DEMOLITION PLAN

-CONSTRUCTION SITES SHALL BE SAFEGUARDED IN ACCORDANCE WITH

-OPEN BURNING IS NOT PERMITTED, INCLUDING THE BURNING OF TRASH, DEBRIS, OR LAND CLEARING MATERIALS. OPEN BURNING FOR SHALL BE WITHIN THE CITY OF ROCHESTER HILLS BURN PERMIT GUIDELINES (FIRE PREVENTION ORDINANCE CHAPTER 58, SEC. 307.2 &

OWNER, BUILDER AND/OR ANY CONTRACTORS SHALL COMPLY WITH ALL LOCAL CODES AND/OR ORDINANCES, APPROVAL OF THIS PLAN DOES NOT RELIEVE ANY PARTIES FROM THOSE COMPLIANCES

RECORDS OF UTILITY COMPANIES, AND NO GUARANTEE CAN BE MADE TO THE COMPLETENESS, OR EXACTNESS OF LOCATION.



2.) This plan shall not be used to set foundations

6.) No title work given at the time of survey

UNAUTHORIZED USE OF THIS DRAWING WITHOUT WRITTEN PERMISSION FROM MAURO ENGINEERING

IS STRICTLY PROHIBITED, AND IS A VIOLATION OF U.S. COPYRIGHT LAWS AND WILL BE SUBJECT TO CIVIL DAMAGES AND PROSECUTION

COVENANT CHURCH PROJECT LOCATION: **ROCHESTER HILLS** 07-12-2021

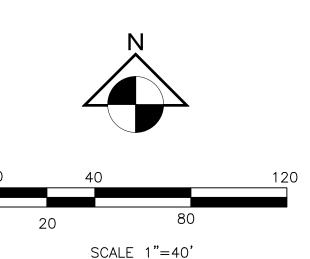
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00

SCALE: 1"=40'

CONTAINING 217,800 SQUARE FEET OR 5.00



Benchmarks: 1) PVMT C.B. IN WEST HAMLIN ROAD AS SHOWN PLAN RIM=(837.01) NAVD88

EÁST APPROACH FROM WEST HAMLIN ROAD AS SHOWN ON PLAN RIM=(841.53) NAVD88

1) COVER

2) EX. CONDITIONS / TOPOGRAPHY PLAN

SITEPLAN

5) WATERMAIN PROFILE

6) PAVING SHEET

7) WATERMAIN DETAIL SHEET

8) WATERMAIN DETAIL SHEET 2

9) WATERMAIN SPECIAL DETAILS

Fire Department Notes:

WITH FIRE SIGNS SIGNS. SPACED NOT MORE THAN 100 FEET APART. FIRE LANE SIGNS SHALL READ "NO STOPPING, STANDING, PARKING, FIRE LANE" AND SHALL CONFORM TO ALL MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

IFC 2006 CHAPTER 58, SEC. 503

General Notes:

ALL INTERIOR GRADES (ARCHITECTURAL) SHALL BE VERIFIED BY THE BUILDER, ARCHITECT AND/OR CONTRACTOR PRIOR TO CONSTRUCTION. ALL TRADES MUST USE THE ARCHITECTURAL PLANS OF RECORD FOR

UTILITY LOCATIONS WERE OBTAINED FROM MUNICIPAL OFFICIALS AND

THIS SURVEY MAY NOT SHOW ALL EASEMENTS OF RECORD UNLESS AN UPDATED TITLE POLICY IS FURNISHED TO THE SURVEYOR BY THE OWNER



1.) Assumes no responsibility for given house dimensions. Client must verify dimensions prior to const.

3.) Setbacks shown on this plot plan were obtained from the municipality. Since deed restrictions are not supplied by the municipality, the client must verify any special Subdivision restrictions. 4.) Lead locations shown on plan are approx. from approved plans. Contractor to field verify all

5.) Assumes no responsibility for house placement designed within 0.5' of approved setbacks.

SIMONE B. MAURO, P.E. - No. 30592 GIOVANNI B. MAURO, P.E. - No. 58276 of: **9**

CONSTRUCTION

Checked By:

Revisions:

Approved By:

MIM.

G.M.

S.M.

Date:

Silt Fence SPACING 6' MAX. 6" ANCHOR TRENCH SILT FENCE JOINT SECTION B-B

Soil Erosion Notes:

1) INSTALL EROSION CONTROL MEASURES 2) ALL SOIL EROSION MEASURES MUST BE IN PLACE PRIOR TO ANY EARTH MOVEMENT 3) COMPLETE ALL EARTH MOVEMENT. 4) RIGHT-OF-WAY MUST BE STABILIZED PRIOR TO FINAL GRADE INSPECTION. 5) ALL SWALE AREAS, ALL SLOPES GREATER THAN 1:5 AND 10' AROUND STORM STRUCTURES MUST BE STABILIZED PRIOR TO FINAL GRADE CERTIFICATION.

STABILIZATION IS COMPLETED, REMOVE

Description Legend

FINAL (FINISHED) GRADE

CATCH BASIN
GARAGE FINISH FLOOR
FIRST FINISH FLOOR

BSMT. FINISH FLOORSTORM MANHOLE

TOP OF WALL

BASEMENT

WATER BOX IF - IRON FOUND

MF - MONUMENT FOUND

UNEXCAVATED

EDGE OF GRAVEL

SANITARY SEWER

OVERHEAD WIRES

OVERHEAD ELECTRIC

FENCE OR GUARDRAIL

ROADWAY CENTERLINE

SANITARY MANHOLE

REAR-YARD CATCH BASIN

STREET CATCH BASIN

VALVE AND VAULT, VALVE

OVERLAND FLOOD ROUTE

FLARED END SECTION

STORM MANHOLE

FIRE HYDRANT

PIPE REDUCER

SPOT ELEVATION

RAINAGE SLOPE

SECTION CORNER

SOIL BORING

PROPERTY LINE

SETBACK LINE

BOTTOM OF WALL

TOPOGRAPHY SPOT GRADE

MATCH EXISTING

HIGH POINT

TW - TOP OF WALK

SWALE

BUILDING

B/WALL

<u>EXISTING</u>

_____G

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6) AFTER PERMANENT FARTH

(Capac sandy loam)

EROSION CONTROL MEASURES.

7.) SOIL TYPES FOR THIS LOT ARE: 10B: (Marlette sandy loam) 11B:

DISTURBED= 0.198 ACRES 9.) THE NEAREST WATER COURSE IS THE CLINTON RIVER 3,200 FEET TO THE BE CONTAINED ON SITE TO ACHIEVE POSITIVE DRAINAGE PER MASTER

1.) SOIL EROSION CONTROL MEASURES WILL BE MAINTAINED ON A WEEKLY 12.) TYPE OF PERMANENT VEGETATIVE ESTORATION WILL BE SEED & MULCH

—- он—----

____E___

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__ __ __

___800 ___

SOIL EROSION AND SEDIMENTATION CONTROL NOTES AND MAINTENANCE NOTES

1. THIS PROJECT SHALL BE CONSTRUCTED IN COMPLIANCE WITH PART 91 OF ACT 451 OF 1994, AS AMENDED, THE SOIL EROSION AND SEDIMENTATION CONTROL ACT AND THE OCSESC ORDINANCE. 2. ALL EROSION AND SEDIMENT CONTROL WORK SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF THE 3. EROSION AND ANY SEDIMENTATION FROM WORK ON THE SITE IS NOT ALLOWED TO COLLECT ON ANY OFFSITE AREAS

4. STAGING THE WORK WILL BE DONE BY THE LANDOWNER OR THE LANDOWNER'S REPRESENTATIVE AS DIRECTED IN 5. THE LANDOWNER OR LANDOWNER'S REPRESENTATIVE SHALL BE RESPONSIBLE FOR INSTALLATION AND MAINTENANCE

OF SOIL EROSION AND SEDIMENTATION DEVICES.

6. THE LANDOWNER OR LANDOWNER'S REPRESENTATIVE SHALL IMPLEMENT AND MAINTAIN SOIL EROSION CONTROL EASURES AS SHOWN ON THE PLANS BEFORE AND AT ALL TIMES DURING CONSTRUCTION ON THIS PROJECT. ANY MODIFICATIONS OR ADDITIONS TO SOIL EROSION CONTROL MEASURES DUE TO CONSTRUCTION OR CHANGED CONDITIONS SHALL BE COMPLIED WITH AS REQUIRED OR DIRECTED BY THE OAKLAND COUNTY PUBLIC WORKS OFFICE. 7 IF ANY OF THESE SESC MEASURES ON THE SITE ARE DEEMED INADEQUATE OR INFEFECTIVE. THE OAKLAND COUNTY PUBLIC WORKS OFFICE, SESC DIVISION, HAS THE RIGHT TO REQUIRE ADDITIONAL SESC MEASURES AT THE EXPENSE OF

8.INSTALL SILT FENCE AS INDICATED ON PLAN AND AT ADDITIONAL AREAS AS NECESSARY. a. SILT FENCE SHALL BE INSTALLED PER DETAIL
b. BUILT-UP SEDIMENT SHALL BE REMOVED WHEN SEDIMENT ACCUMULATED TO 1/3 TO 1/2 OF THE HEIGHT OF THE LIFE AND BARRIER IS STILL REQUIRED, THE FABRIC SHALL BE REPLACED PROMPTLY.
d. SILT FENCE SHALL BE INSPECTED WEEKLY UNDER NORMAL CONDITIONS, WITHIN 24 HOURS OF RAINFALL AND

DAILY DURING A PROLONGED RAIN EVENT. REQUIRED MAINTENANCE SHALL BE PROVIDED PROMPTLY. 9. INSTALL INLET FILTERS ON ALL PAVEMENT CATCH BASINS PER DETAIL, INLET FILTERS SHALL BE INSPECTED WEEKLY e. UNDER NORMAL CONDITION, WITHIN 24 HOURS OF RAINFALL AND DAILY DURING A PROLONG RAIN EVENT. f. BUILDUP OF SEDIMENT SHALL BE REMOVED PROMPTLY. g. IF FABRIC DECOMPOSES OR BECOMES INEFFECTIVE PRIOR TO THE END OF THE EXPECTED LIFE AND THE BARRIER IS STILL REQUIRED, THE FABRIC SHALL BE REPLACED PROMPTLY.

LO. INSTALL SEDIMENT-CATCH TYPE DEVICE, AND/OR PROVIDE SILT FENCE WITH SOD AROUND REAR YARD CATCH BASIN h. REAR YARD CATCH BASINS SHALL BE INSPECTED WEEKLY UNDER NORMAL CONDITIONS WITHIN 24 HOURS OF RAINFALL AND DAILY DURING A PROLONGED RAIN EVENT i. BUILT-UP SEDIMENT SHALL BE REMOVED WHEN SEDIMENT ACCUMULATES TO 1/3 TO 1/2 THE HEIGHT OF THE SILT IF FABRIC DECOMPOSES OR BECOMES INEFFECTIVE PRIOR TO THE END OF THE EXPECTED LIFE AND THE BARRIER IS STILL REQUIRED, THE FABRIC SHALL BE REPLACED PROMPTLY.

L1. ALL STOCKPILED SOILS MUST MAINTAINED IN SUCH A WAY AS TO PREVENT EROSION FROM LEAVING THE SITE. IF THE STOCKPILE WILL BE ONSITE FOR MORE THAN 30 DAYS, THE STOCKPILE MUST BE SEEDED. SILT FENCE MUST BE INSTALLED AROUND THE PERIMETER OF THE STOCKPILE. 12. IMMEDIATELY AFTER SEEDING, MULCH ALL SEEDED AREAS WITH UNWEATHERED SMALL FRAIN STRAW, SPREAD

UNIFORMLY AT THE RATE OF 1/2 TO 2 TONS PER ACRE OR 100 POUNDS (2-3 BALES) PER 1000 SQUARE FEET. THIS MULCH SHOULD BE ANCHORED WITH A DISC TYUPE MULCH ANCHORING TOOL OR OTHER MEANS AS APPROVED BY THE OAKLAND COUNTY PUBLIC WORKS OFFICE 13. IF ANY DEWATERING IS NEEDED, IT SHALL BE DISCHARGED THROUGH A FILTER BAG OVER A WELL VEGETATED AREA. THE PUMP MUST DISCHARGE AT A NON-EROSIVE VELOCITY. IF NECESSARY, AN APPROVED ENERGY DISSIPATER MAY BE

Tree Notes:

- NO TREES TO BE REMOVED NOR DISTURBED

- 100% OF TREES TO BE PRESERVED

DRIP LINE OF ANY TREE DESIGNATED

Tree List:

WHITE PINE

CRAB APPLE

CRAB APPLE

WHITE PINE

WHITE PINE

MALBERRY

PEAR

SPRUCE

PEAR

SPRUCE

SPRUCE

SPRUCE

SPRUCE

SPRUCE

SPRUCE

SPRUCE

PEAR

SPRUCE

SPRUCE

HONEY LOCUST

HONEY LOCUST

WHITE PINE

WHITE PINE

CRAB APPLE

PEAR

no scale

CRAB APPLI

RED PINE

WEEPING WILLOW

- PLACE TREE PROTECTION PER CITY ORDINANCES

- ALL TREES WHICH HAVE BEEN APPROVED SHALL

SPRAY PAINT (CHALK BASE) OR BY RED FLAGGING

BE SO IDENTIFIED ON SITE BY FLUORESCENT ORANGE

- NO PERSON SHALL CONDUCT ACTIVITY WITHIN THE

ATTACH A DEVICE OR WIRE TO ANY REMAINING TREE, EXCEPT TO CORDON OFF PROTECTED AREAS AS

CONDITION

GOOD

WATERMAIN

EASEMENT

N87° 10' 11'

335.00'

- DURING CONSTRUCTION, NO PERSON SHALL

14. ALL DIRT STACKED ONTO ANY ROADWAY SHALL BE REMOVED IMMEDIATELY 15. STREETS AND OR PARKING AREAS WILL BE SCRAPED ON A DAILY BASIS AND SWEPT AT A MINIMUM OF ONCE PER WEEK BY THE LANDOWNER OR LANDOWNER'S REPRESENTATIVE.

16. DURING DRY PERIODS, ALL DISTURBED AREAS SHALL BE WATERED FOR DUST CONTROL. 7. PERMANENT SOIL EROSION CONTROL MEASURES FOR ALL SLOPES, CHANNELS, DITCHES OR ANY DISTURBED LAND AREAS SHALL BE COMPLETED WITHIN 5 CALENDAR DAYS AFTER FINAL GRADING OR THE FINAL EARTH CHANGE HAS BEEN COMPLETED WHEN IT IS NOT POSSIBLE TO PERMANENTLY STABILIZE A DISTURBED AREA AFTER EARTH CHANGE HAS BEEN COMPLETED OR WHERE SIGNIFICANT EARTH CHANGE ACTIVITY CEASES, TEMPORARY SOIL EROSION MEASURES SHALL BE MPLEMENTED IMMEDIATELY. ALL TEMPORARY SOIL EROSION CONTROL MEASURES WILL BE MAINTAINED UNTIL

PERMANENT SOIL EROSION CONTROL MEASURES ARE IMPLEMENTED. ALL PERMANENT SOIL EROSION CONTROL MEASURES

WILL BE IMPLEMENTED AND ESTABLISHED BEFORE A CERTIFICATE OF COMPLIANCE IS ISSURED. 18. FINAL GRADE, ESTABLISH VEGETATION AND OR LANDSCAPE ALL DISTURBED AREAS NOT BUILT OR PAVED UPON. 19. REMOVE ALL TEMPORARY SOIL DEVICES AFTER PERMANENT STABILIZATION IS ESTABLISHED.

900 W. Hamlin Rd - Site Plan

SECTION 22 T. 3N., R. 11E., ROCHESTER HILLS, OAKLAND COUNTY, MICHIGAN

Parcel ID#15-22-351-012

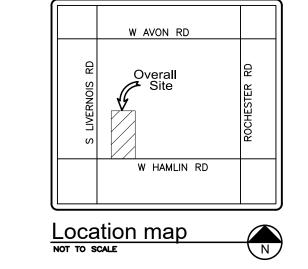
330.00'

N87° 28' 20"E

CONTROL MEASURES,

RENTENTION

SILT FENCING



Onsite Contact:

Legal Description:

SECTION 22, TOWN 3 NORTH, RANGE 11 EAST, CITY OF ROCHESTER HILLS, OAKLAND COUNTY, MICHIGAN MORE PARTICULARLY

COMMENCING AT THE SOUTHWEST CORNER OF SECTION 22; THENCE N87'10'11"E ALONG THE SOUTH LINE OF SECTION 22 335.00 FEET TO POINT OF BEGINNING: THENCE NO2°31'40"W 660.00 FEET: THENCE N87*28'20"E 330.00 FEET: THENCE S02*31'40"E 660.00 FEET TO A POINT ON THE SOUTH LINE OF SECTION 22; THENCE S87*28'20"W 330.00 FEET TO THE POINT OF BEGINNING.

> CONTAINING 217,800 SQUARE FEET OR 5.00 ACRES OF LAND SUBJECT TO ALL EASEMENT AND RESTRICTIONS OF RECORD, IF ANY

REFERENCE MICHIGAN BUILDING CODE 2015 AND ICC A117.1-2009 FOR APPLICABLE CONSTRUCTION CODES PASSENGER LOADING ZONE SHALL COMPLY WITH A117.1-2009 SECTION

Garbage Note: THIS SITE. GARBAGE CANS SHALL BE UTILIZED TO REMOVE WASTE

Building Code Analysis:

1. CLASSIFICATION: A-3

2. TYPE OF CONSTRUCTION: V-B

3. FIRE SUPPRESSION: FIRE SUPPRESSION SHALL COMPLY WITH SECTION 903 AS APPLICABLE. PER RHFD (ANN ECHOLS), THERE ARE 2 SPRINKLER HEADS IN THE EXISTING MECHANICAL ROOM. PER THE ARCHITECT, JMP DESIGN, THERE IS NO OTHER FIRE SUPPRESSION THROUGHOUT THE

4. FIRE ALARM & SMOKE DETECTION: FIRE ALARM SHALL COMPLY WITH SECTION 907 AS APPLICABLE.

5. BUILDING HEIGHT:
a. PROPOSED: LESS THAN 40 FEET. THE TOWER OF THE PROPOSED ELEVATOR SHALL COMPLY WITH SECTION

STORIES:

b. ALLOWABLE: 40 FEET

d. ALLOWABLE: e. PROPOSED: 4,356 SF +/- (TOTAL FIRST FLOOR INCLUDING PORTICO) f. ALLOWABLE: 6,000 SF

Sign Note:

ALL SIGNS MUST MEET SECTION 138-8.603 AND CHAPTER 134 OF THE CITY CODE OF ORDINANCES. SIGNS MUST BE APPROVED UNDER A SEPARATE PERMIT ISSUED BY THE

Parking Calcs

TOTAL EXISTING SPACES = 76 TOTAL PROPOSED SPACES = 12 ACCESSIBLE SPACES = 6

Fire Department Notes:

-FIRE LANES SHALL BE DESIGNATED BY THE FIRE CODE OFFICIAL AND SHALL BE CONSPICUOUSLY POSTED ON BOTH SIDES OF THE FIRE LANE, WITH FIRE SIGNS SIGNS, SPACED NOT MORE THAN 100 FEET APART FIRE LANE SIGNS SHALL READ "NO STOPPING, STANDING, PARKING, FIRE LANE" AND SHALL CONFORM TO ALL MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

-CONSTRUCTION SITES SHALL BE SAFEGUARDED IN ACCORDANCE WITH IFC 2006 CHAPTER 58, SEC. 503

-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 PREPARATION OF MORTAR GUIDELINES (FIRE PREVENTION ORDINANCE CHAPTER 58, SEC. 307.2 &

General Notes:

ALL INTERIOR GRADES (ARCHITECTURAL) SHALL BE VERIFIED BY THE BUILDER, ARCHITECT AND/OR CONTRACTOR PRIOR TO CONSTRUCTION. ALL TRADES MUST USE THE ARCHITECTURAL PLANS OF RECORD FOR

OWNER, BUILDER AND/OR ANY CONTRACTORS SHALL COMPLY WITH ALL LOCAL CODES AND/OR ORDINANCES, APPROVAL OF THIS PLAN DOES

UTILITY LOCATIONS WERE OBTAINED FROM MUNICIPAL OFFICIALS AND RECORDS OF UTILITY COMPANIES, AND NO GUARANTEE CAN BE MADE TO THE COMPLETENESS, OR EXACTNESS OF LOCATION.

THIS SURVEY MAY NOT SHOW ALL EASEMENTS OF RECORD UNLESS AN UPDATED TITLE POLICY IS FURNISHED TO THE SURVEYOR BY THE OWNER

 $1.) \ Assumes \ no \ responsibility \ for \ given \ house \ dimensions. \ Client \ must \ verify \ dimensions \ prior \ to \ const.$ 3.) Setbacks shown on this plot plan were obtained from the municipality. Since deed restrictions are not supplied by the municipality, the client must verify any special Subdivision restrictions.

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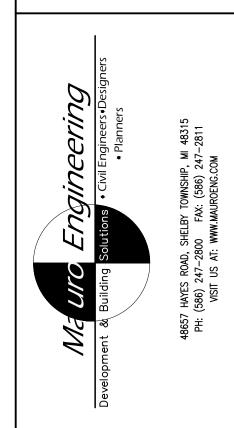
COVENANT CHURCH

PROJECT LOCATION: **ROCHESTER HILLS**

07-12-2021

SCALE: 1"=40'

> 8 0



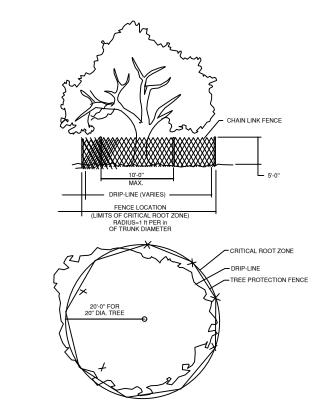
CONSTRUCTION MIM. Checked By: G.M. Approved By: SM

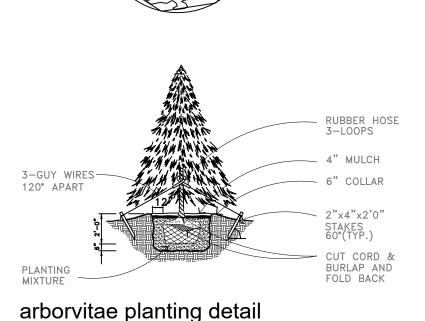
Revisions: Date: PER CITY COMM. 2021-10-11 A.S.

PROFESSIONA ENGINEER

SIMONE B. MAURO, P.E. - No. 30592 GIOVANNI B. MAURO, P.E. - No. 58276

TREE PROTECTION FENCE DETAIL





13471

Storage Calc. IMPERVIOUS AREA ADDED = 13,780 SQ. FT. 10% OF PARCEL AREA = 21,780 SQ. FT.

831.3

21.780 SQ. FT. > 13.780 SQ. FT. THEREFORE OK 2 INCHES OVER AREA = 2,296.67 CU. FT. STORAGE PROVIDED = 33,952.70 CU. FT. 33,952.70 > 2,296.67 THEREFORE OK

Pond Storage: Storage Area 2 (Elev. 23298.59825 33952.7 30180 17039 10654.076

PR. ARBORVITAE

SOM FROSION

Parcel ID #70-15-22-351-003

14" MALBERRY

-FENCING; SEE DETAIL

CONTROL MEASURES, 842

THIS SHEET (TYP.)

CONTROL MEASURES,

YP.) SEE DETAIL

Lot 7

Legacy Estates

Sheet Index:

SITEPLAN

4) DEMOLITION PLAN

6) PAVING SHEET

5) WATERMAIN PROFILE

7) WATERMAIN DETAIL SHEET 1

8) WATERMAIN DETAIL SHEET 2

9) WATERMAIN SPECIAL DETAILS

Legacy Estates

Legacy Estates

Legacy Estates

PR. ARBORVITAE

EX. WOOD PRIVACY

2) EX. CONDITIONS / TOPOGRAPHY PLAN

2) WATER GATE VALVE IN EÁST APPROACH FROM WEST

HAMLIN ROAD AS SHOWN OF

PLAN RIM=(841.53) NAVD88

Mauro Engineering 48657 Hayes Road Shelby Twp., MI 48315 Ph: (586) 247-2800 • Fax: (586) 247-2811

Visit us at: www.mauroeng.com

2.) This plan shall not be used to set foundations

4.) Lead locations shown on plan are approx. from approved plans. Contractor to field verify all

900 W. Hamlin Rd - Demolition Plan

SECTION 22 T. 3N., R. 11E., ROCHESTER HILLS, OAKLAND COUNTY, MICHIGAN

Parcel ID#15-22-351-012

EX. ACCESSIBLE WALK |

Parcel ID #70-15-22-351-003

} 14" MALBERRY

^{-BM #1} West Hamlin Road

S87° 28' 20"W

N87° 10' 11"L

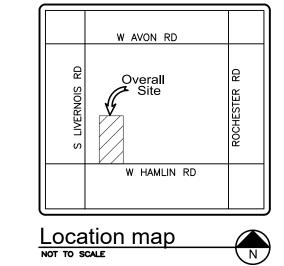
SOUTHWEST CORNER

OF SECTION 22 T.3N., R.11E., L.14992 P.084

335.00'

330.00' N87° 28' 20"E

RENTENTION



Onsite Contact:

PROJECT LOCATION:

07-12-2021

329.81 FEET; THENCE S02'30'53"E 599.95 FEET TO A POINT ON THE NORTH LINE OF SAID HAMLIN ROAD; THENCE WESTERLY ALONG SAID NORTH LINE S87'10'11"W 329.76 FEET TO THE POINT OF BEGINNING. CONTAINING 197,827 SQUARE FEET OR 4.54 ACRES OF LAND SUBJECT TALL EASEMENT AND RESTRICTIONS OF RECORD, IF ANY.

A PARCEL OF LAND IN THE SOUTHWEST \$\frac{1}{4}\$ OF SECTION 22, TOWN 3 NORTH, RANGE 11 EAST, MORE PARTICULARLY DESCRIBED AS:

THENCE NO2°31'08"W 60.00 FEET TO A POINT ON THE NORTHERLY LINE OF HAMLIN ROAD (60.00 FEET 1 WIDTH) SAID POINT ALSO BEING THE POINT OF BEGINNING. THENCE NO2'31'08"W 599.82 FEET; THENCE N87'08'51"E

COMMENCING AT THE SOUTHWEST CORNER OF SECTION 22; THENCE N87*10'11"E ALONG THE SOUTH LINE OF SECTION 22 335.00 FEET;

REFERENCE MICHIGAN BUILDING COD 2015 AND ICC A117.1–2009 FOR APPLICABLE CONSTRUCTION CODES

Legal Description:

Lot 7

Legacy Estates

Legacy Estates

Lot 9

Legacy Estates

-0-0-0-0-0-0-0-

Legacy Estates

Legacy Estates

PASSENGER LOADING ZONE SHALL COMPLY WITH A117.1-2009 SECTION 503. REFER TO FLOOR PLAN

Garbage Note:

DUMPSTERS WILL NOT BE UTILIZED ON THIS SITE. GARBAGE CANS SHALL BE UTILIZED TO REMOVE WASTE

Building Code Analysis:

1. CLASSIFICATION: A-3

2. TYPE OF CONSTRUCTION: V-B 3. FIRE SUPPRESSION: FIRE SUPPRESSION SHALL COMPLY WITH SECTION 903 AS APPLICABLE. PER RHFD (ANN ECHOLS), THERE ARE 2 SPRINKLER HEADS IN THE EXISTING MECHANICAL ROOM, PER THE ARCHITECT, JMP DESIGN. THERE IS NO OTHER FIRE SUPPRESSION THROUGHOUT THE

4. FIRE ALARM & SMOKE DETECTION: FIRE ALARM SHALL COMPLY WITH SECTION 907 AS APPLICABLE.

a. PROPOSED: LESS THAN 40 FEET. THE TOWER OF THE PROPOSED ELEVATOR SHALL COMPLY WITH SECTION b. ALLOWABLE: 40 FEET

STORIES: c. PROPOSED:

d. ALLOWABLE: 7. BUILDING AREA PER FLOOR:

e. PROPOSED: 4,356 SF +/- (TOTAL FIRST FLOOR

INCLUDING PORTICO) f. ALLOWABLE: 6,000 SF

Sign Note: ORDINANCES. SIGNS MUST BE APPROVED UNDER A SEPARATE PERMIT ISSUED BY THE

Parking Calcs.

TOTAL EXISTING SPACES = 76 TOTAL PROPOSED SPACES = 12 ACCESSIBLE SPACES = 6

BUILDING DEPARTMENT

Fire Department Notes:

-FIRE LANES SHALL BE DESIGNATED BY THE FIRE CODE OFFICIAL AND SHALL BE CONSPICUOUSLY POSTED ON BOTH SIDES OF THE FIRE LANE, WITH FIRE SIGNS SIGNS, SPACED NOT MORE THAN 100 FEET APART. FIRE LANE SIGNS SHALL READ "NO STOPPING, STANDING, PARKING, FIRE LANE" AND SHALL CONFORM TO ALL MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

-CONSTRUCTION SITES SHALL BE SAFEGUARDED IN ACCORDANCE WITH IFC 2006 CHAPTER 58, SEC. 503

-OPEN BURNING IS NOT PERMITTED, INCLUDING THE BURNING OF TRASH, DEBRIS, OR LAND CLEARING MATERIALS. OPEN BURNING FOR SHALL BE WITHIN THE CITY OF ROCHESTER HILLS BURN PERMIT GUIDELINES (FIRE PREVENTION ORDINANCE CHAPTER 58, SEC. 307.2 &

General Notes:

ALL INTERIOR GRADES (ARCHITECTURAL) SHALL BE VERIFIED BY THE BUILDER, ARCHITECT AND/OR CONTRACTOR PRIOR TO CONSTRUCTION. ALL TRADES MUST USE THE ARCHITECTURAL PLANS OF RECORD FOR

OWNER, BUILDER AND/OR ANY CONTRACTORS SHALL COMPLY WITH ALL LOCAL CODES AND/OR ORDINANCES, APPROVAL OF THIS PLAN DOES

UTILITY LOCATIONS WERE OBTAINED FROM MUNICIPAL OFFICIALS AND RECORDS OF UTILITY COMPANIES, AND NO GUARANTEE CAN BE MADE TO THE COMPLETENESS, OR EXACTNESS OF LOCATION. THIS SURVEY MAY NOT SHOW ALL EASEMENTS OF RECORD UNLESS AN

UPDATED TITLE POLICY IS FURNISHED TO THE SURVEYOR BY THE OWNER

Benchmarks: ROAD AS SHOWN PLAN RIM=(837.01) NAVD88 2) WATER GATE VALVE IN EÁST APPROACH FROM WEST HAMLIN ROAD AS SHOWN ON Mauro Engineering PLAN RIM=(841.53) NAVD88

48657 Hayes Road Shelby Twp., MI 48315

Visit us at: www.mauroeng.com

Ph: (586) 247-2800 • Fax: (586) 247-2811

6.) No title work given at the time of survey

1.) Assumes no responsibility for given house dimensions. Client must verify dimensions prior to const. 2.) This plan shall not be used to set foundations.

3.) Setbacks shown on this plot plan were obtained from the municipality. Since deed restrictions are not supplied by the municipality, the client must verify any special Subdivision restrictions. 4.) Lead locations shown on plan are approx. from approved plans. Contractor to field verify all 5.) Assumes no responsibility for house placement designed within 0.5' of approved setbacks.

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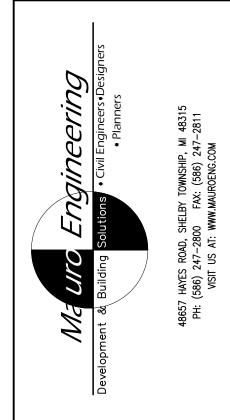
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MAURO ENGINEERING IS STRICTLY

COVENANT CHURCH

ROCHESTER HILLS

IOLITION 900 DEM(



ELIMINARY CONSTRUCTION 🛮 AS-BUILT MIM. Checked By: G.M. Approved By: S.M.

Revisions: Date: PER CITY COMM 2021-10-11 A.S.

> PROFESSIONAL **ENGINEER**

SIMONE B. MAURO, P.E. - No. 30592 GIOVANNI B. MAURO, P.E. - No. 58276

21-104

of: **9** City File #21-027 Section #22

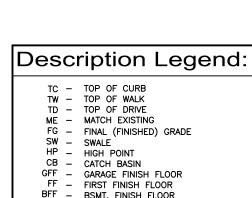
1) COVER 2) EX. CONDITIONS / TOPOGRAPHY PLAN 3) SITEPLAN 4) DEMOLITION PLAN 5) WATERMAIN PROFILE 6) PAVING SHEET

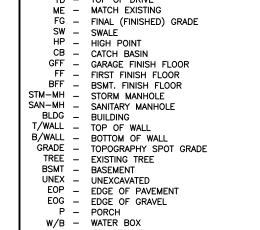
7) WATERMAIN DETAIL SHEET 1

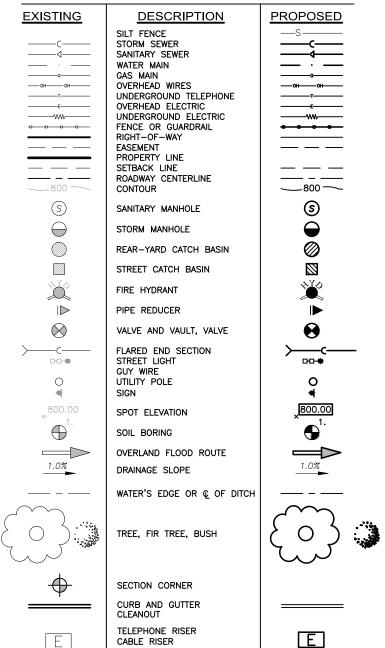
8) WATERMAIN DETAIL SHEET 2

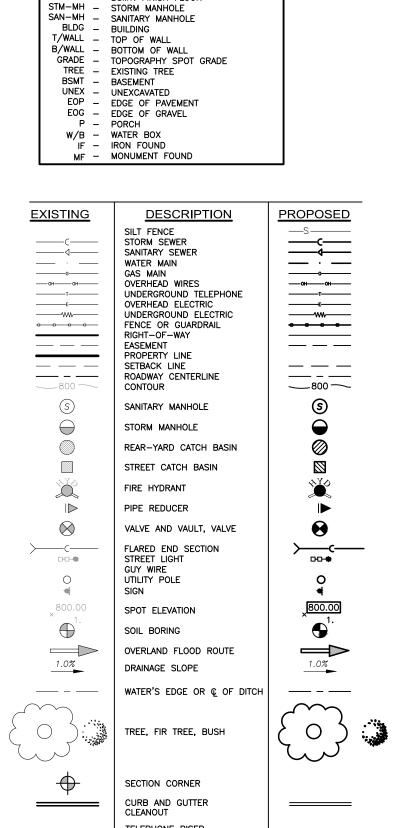
9) WATERMAIN SPECIAL DETAILS

Sheet Index:









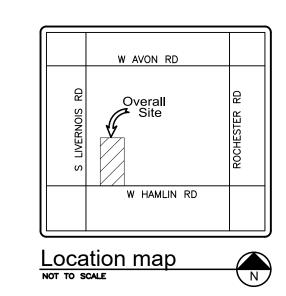
HYD. EG 834.00 PR. 20' WATERMAIN -EASEMENT 8" PEA PR. 20'x20' CONC. PAD -351-002 EX. WATERMAIN PLAN SCALE 1"=20"

900 W. Hamlin Rd - Watermain Profile

VERT. SCALE 1"=3"

HORIZ. SCALE 1"=30"

SECTION 22 T. 3N., R. 11E., ROCHESTER HILLS, OAKLAND COUNTY, MICHIGAN



Sheet Index:

2) EX. CONDITIONS / TOPOGRAPHY PLA
3) SITEPLAN
4) DEMOLITION PLAN
5) WATERMAIN PROFILE

7) WATERMAIN DETAIL SHEET 1
8) WATERMAIN DETAIL SHEET 2

8) WATERMAIN DETAIL SHEET 2

9) WATERMAIN SPECIAL DETAILS

900 W. HAMLIN RD WATERMAIN PROFILE

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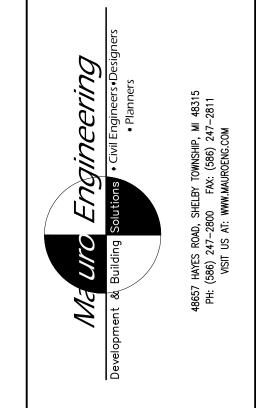
COVENANT CHURCH

ROCHESTER HILLS

07-12-2021

PROJECT LOCATION:

SCALE:





PRELIMINARY	CONSTRUCTION	AS-BUILT	J
Drawn By:	MIM		
Checked By:	G.M		
Approved By:	S.M		
			٦

	Revisions:	Date:	By:
P	PER CITY COMM.	2021-10-11	A.S
Г			

GIOVANNI

B.

MAURO

PROFESSIONAL

ENGINEER

No.

5072

SIMONE B. MAURO, P.E. - No. 30592 GIOVANNI B. MAURO, P.E. - No. 58276 Job No.

Job No. **21-104**Sheet No.

Watermain Profile 845 840 835 EXISTING GRADE CONNECT TO EX. W.M. - LOCATED IN WEST 830 HAMLIN R.O.W. T/PIPE = 827.72EX. WATERMAIN PR. 400 L.F. OF 8" WATERMAIN 825 820 815 -1+00 0+00 1+00 2+00 3+00 4+00 5+00

Mauro Engineering

A 8657 Hayes Road Shelby Twp., MI 48315
Ph: (586) 247-2800 • Fax: (586) 247-2811

Visit us at: www.mauroeng.com

Mauro Engineering
1.) Assumes no responsibility for given house dimensions. Client must verify dimensions prior to const.
2.) This plan shall not be used to set foundations.
3.) Setbacks shown on this plot plan were obtained from the municipality. Since deed restrictions are not

supplied by the municipality, the client must verify any special Subdivision restrictions.

4.) Lead locations shown on plan are approx. from approved plans. Contractor to field verify all lead locations.

5.) Assumes no responsibility for house placement designed within 0.5' of approved setbacks.

6.) No title work given at the time of survey

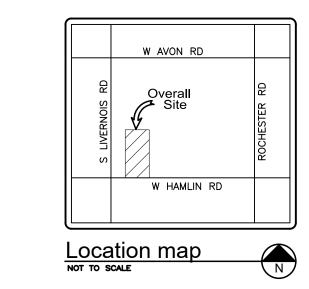
SCALE 1"=16'

832.66

PR. PARKING;

900 W. Hamlin Rd - Paving

SECTION 22 T. 3N., R. 11E., ROCHESTER HILLS, OAKLAND COUNTY, MICHIGAN



COMMENCING AT THE SOUTHWEST CORNER OF SECTION 22; THENCE N87°10'11"E ALONG THE SOUTH LINE OF SECTION 22 335.00 FEET; THENCE NO2°31'08"W 60.00 FEET TO A POINT ON THE NORTHERLY LINE OF

ALL EASEMENT AND RESTRICTIONS OF RECORD, IF ANY.

Sheet Index:

SITEPLAN

4) DEMOLITION PLAN 5) WATERMAIN PROFILE

6) PAVING SHEET

7) WATERMAIN DETAIL SHEET 1

8) WATERMAIN DETAIL SHEET 2 9) WATERMAIN SPECIAL DETAILS

TC - TOP OF CURB
TW - TOP OF WALK
TD - TOP OF DRIVE

MATCH EXISTING FINAL (FINISHED) GRADE

CB — CATCH BASIN

GFF — GARAGE FINISH FLOOR

FF — FIRST FINISH FLOOR

BASEMENT UNEXCAVATED

IF - IRON FOUND MF - MONUMENT FOUND

SAN-MH —
BLDG —
T/WALL —
B/WALL —
GRADE —
TREE —
BSMT —
UNEX —
EOP —
EOG —
P —

BSMT, FINISH FLOOR

SANITARY MANHOLE
BUILDING
TOP OF WALL
BOTTOM OF WALL
TOPOGRAPHY SPOT GRADE

STORM SEWER SANITARY SEWER

GAS MAIN
OVERHEAD WIRES
UNDERGROUND TELEPHONE
OVERHEAD ELECTRIC
UNDERGROUND ELECTRIC

FENCE OR GUARDRAIL RIGHT-OF-WAY

SETBACK LINE ROADWAY CENTERLINE CONTOUR

SANITARY MANHOLE STORM MANHOLE

REAR-YARD CATCH BASIN

VALVE AND VAULT, VALVE

OVERLAND FLOOD ROUTE DRAINAGE SLOPE

WATER'S EDGE OR Q OF DITCH

FLARED END SECTION STREET LIGHT

STREET CATCH BASIN

FIRE HYDRANT

PIPE REDUCER

GUY WIRE UTILITY POLE

SPOT ELEVATION

SOIL BORING

SECTION CORNER

TELEPHONE RISER

PROPOSED

—он—он— ____ε

__ _ _

×800.00

1.0%

0

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COVENANT CHURCH

PROJECT LOCATION:

ROCHESTER HILLS A PARCEL OF LAND IN THE SOUTHWEST $\frac{1}{4}$ OF SECTION 22, TOWN 3 NORTH,

> 07-12-2021 1"=16'

>, ⊈

3 WORKING DAYS

BEFORE YOU DIG CALL MISS DIG
1-800-482-7171
TOLL FREE FOR THE LOCATION OF UNDERGROUND FACILITIES

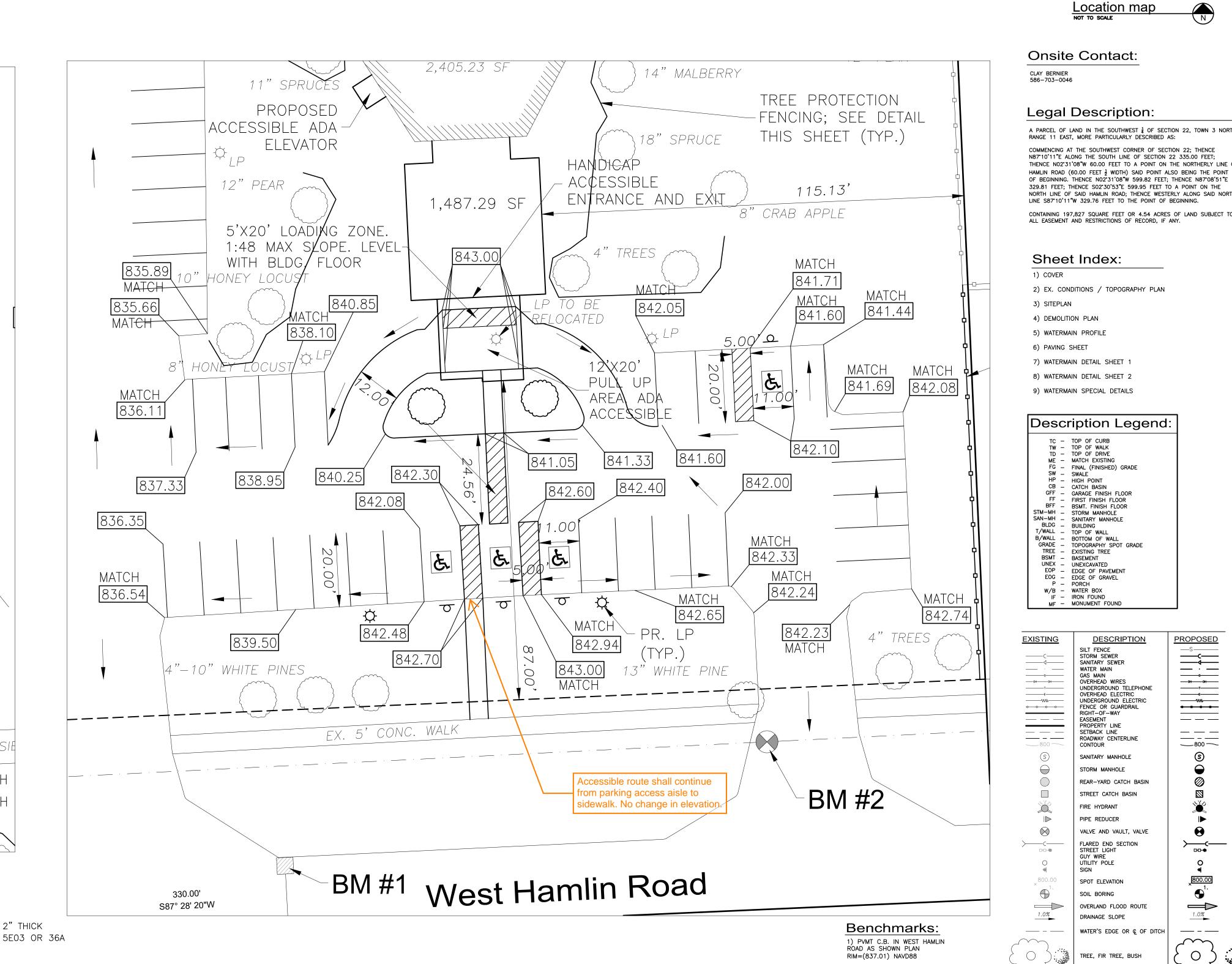
MIM. Checked By: G.M. Approved By: S.M.

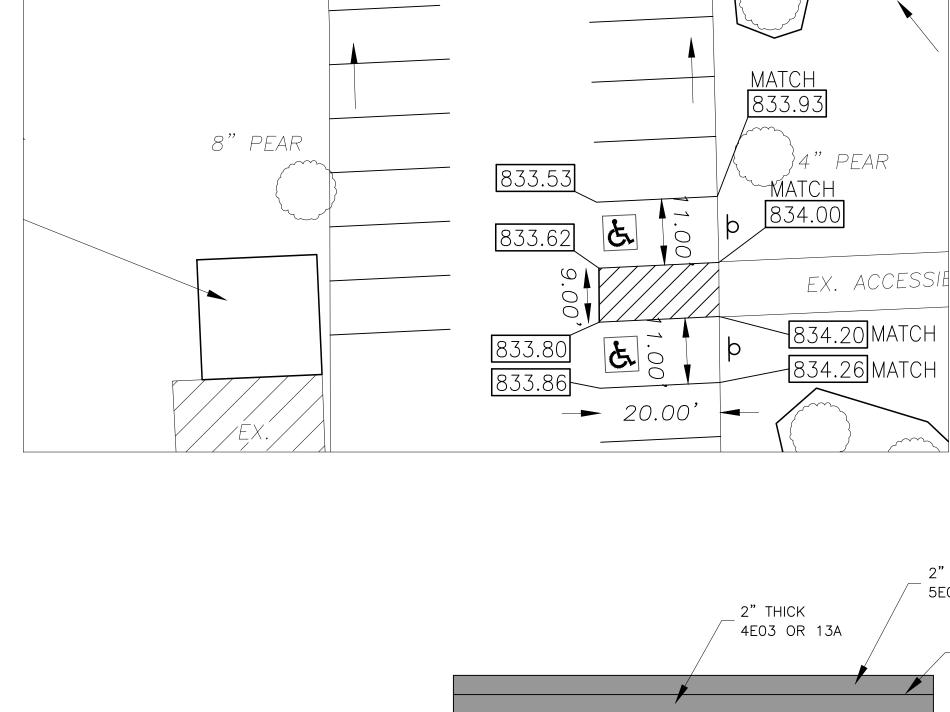
Revisions: Date: PER CITY COMM. 2021-10-11 A.S.

GIOVANNI
B.
MAURO
PROFESSIONAL
ENGINEER
No.
50275

SIMONE B. MAURO, P.E. - No. 30592 GIOVANNI B. MAURO, P.E. - No. 58276

21-104 6 of: 9





120.00

834.00

834.00

8" SPRUCES

Typical Bituminous Parking Section

BITUMINOUS BOND COAT

SS-IH @ 0.05 GAL./SY

LIMESTONE BASE

COMPACTED SUBGRADE

10" 21AA COMPACTED

833.00

la uro Engineering Mauro Engineering 48657 Hayes Road Shelby Twp., MI 48315 Ph: (586) 247-2800 • Fax: (586) 247-2811 Visit us at: www.mauroeng.com 6.) No title work given at the time of survey

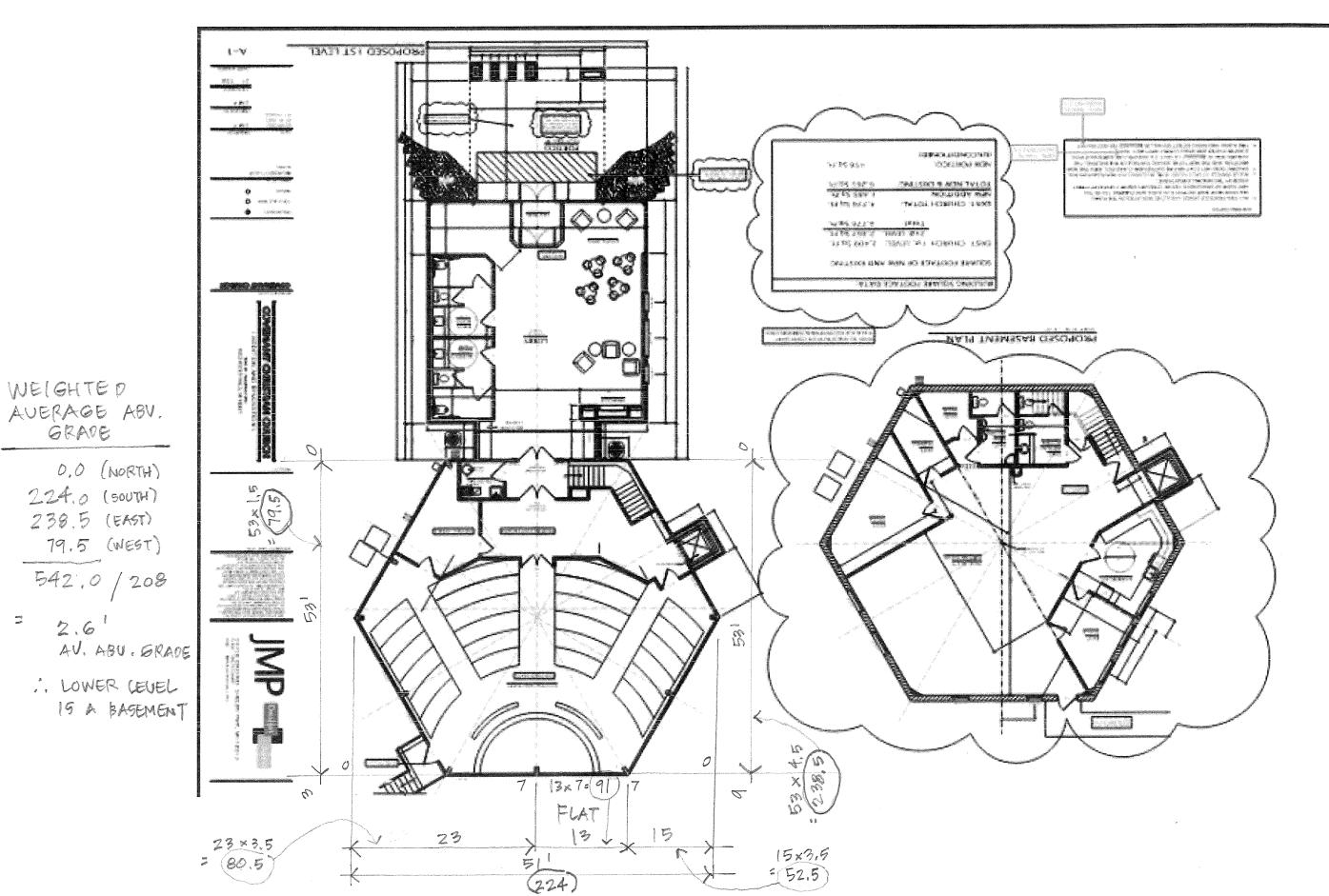
2) WATER GATE VALVE IN EÁST APPROACH FROM WEST

HAMLIN ROAD AS SHOWN ON

PLAN RIM=(841.53) NAVD88

1.) Assumes no responsibility for given house dimensions. Client must verify dimensions prior to const. 2.) This plan shall not be used to set foundations

3.) Setbacks shown on this plot plan were obtained from the municipality. Since deed restrictions are not supplied by the municipality, the client must verify any special Subdivision restrictions. 4.) Lead locations shown on plan are approx, from approved plans. Contractor to field verify all 5.) Assumes no responsibility for house placement designed within 0.5' of approved setbacks.



2.6