

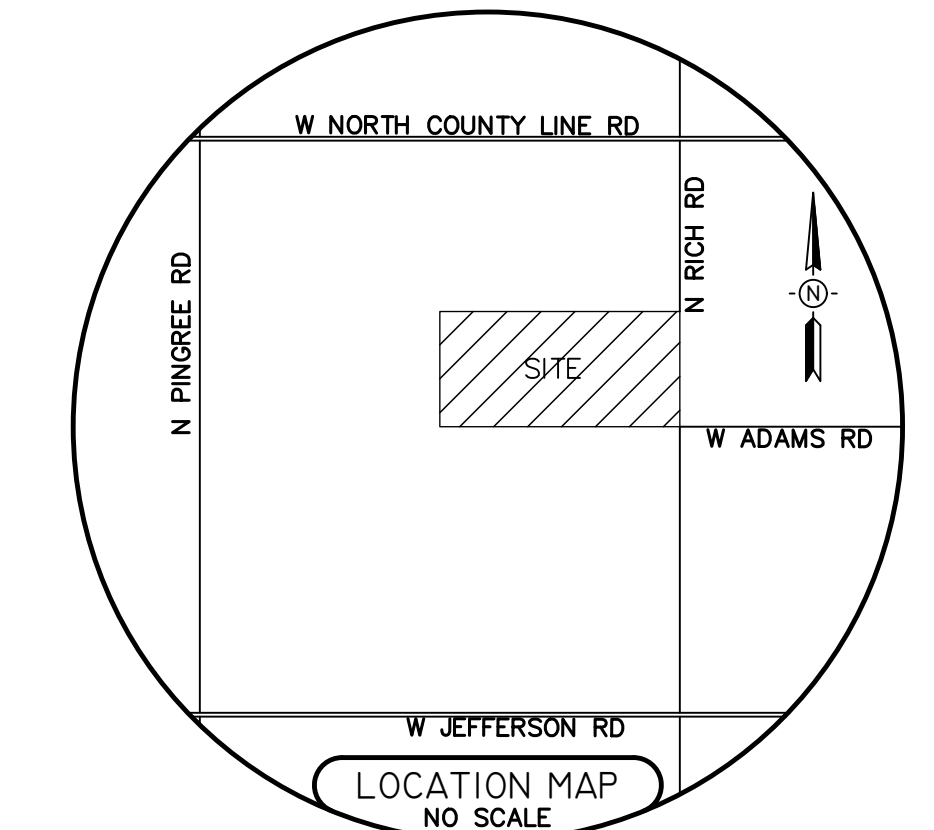
APPLICANT/OWNER:
GRATIOT CO SOIL CONSERVATION D
PO BOX 166
ITHICA, MI. 48847

ENGINEER/SURVEYOR:
KEBS, INC.
2116 HASLETT RD.
HASLETT, MI. 48840
PH: (517) 339-1014

ARCHITECT:
ROGER DONALDSON
4787 TARTAN LN
HOLT, MI. 48842-1935
PH: (517) 694-0011

FOREST HILL NATURE CENTER

SEVILLE TOWNSHIP, GRATIOT COUNTY, MICHIGAN



SEWER INVENTORIES

STM CB #1074
RIM - 806.99'
6" PVC NE - 804.69'

SAN CLEANOUTS #2317
RIM - 817.53'

SURVEY DONE BY OTHERS

LEGAL DESCRIPTIONS

PER. WARRANTY DEED L. 465, P. 749, GRATIOT COUNTY RECORDS:

THE FOLLOWING DESCRIBED PREMISES SITUATED IN THE TOWNSHIP OF SEVILLE, COUNTY OF GRATIOT, AND STATE OF MICHIGAN: SOUTH 90 ACRES OF THE SE 1/4 TO SECTION 1, T12N, R4W, MICHIGAN. EXCEPT RIGHT OF WAY OVER AND ACROSS SAID PREMISES GRANTED TO THE CONSUMERS POWER COMPANY, AS SHOWN BY LIBER 235 OF DEEDS, PAGE 20 AND ANY INSTRUMENTS AFFECTING THE SAME.

MORE PARTICULARLY DESCRIBED AS SURVEYED:

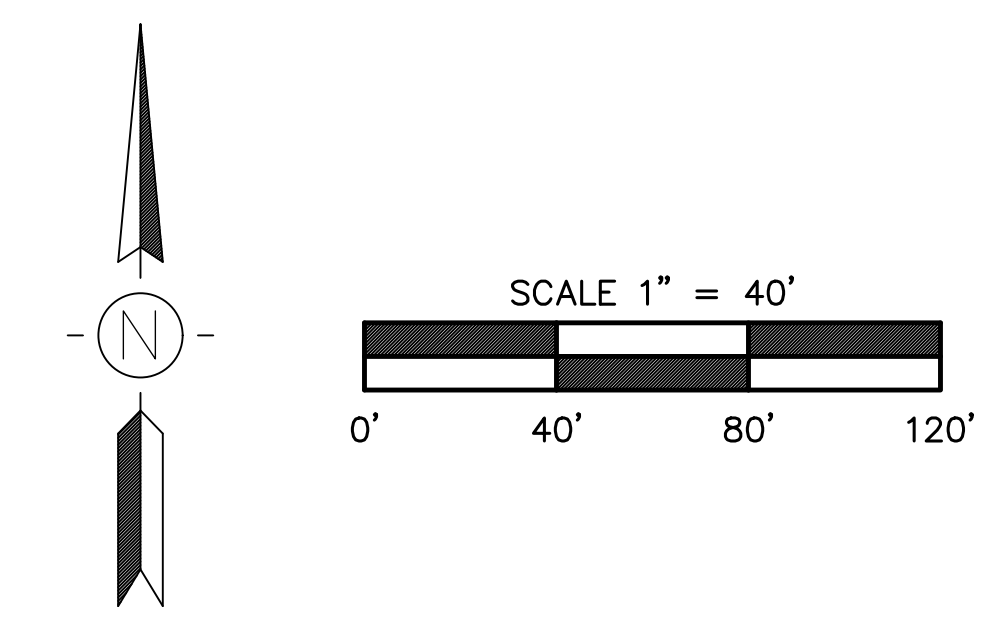
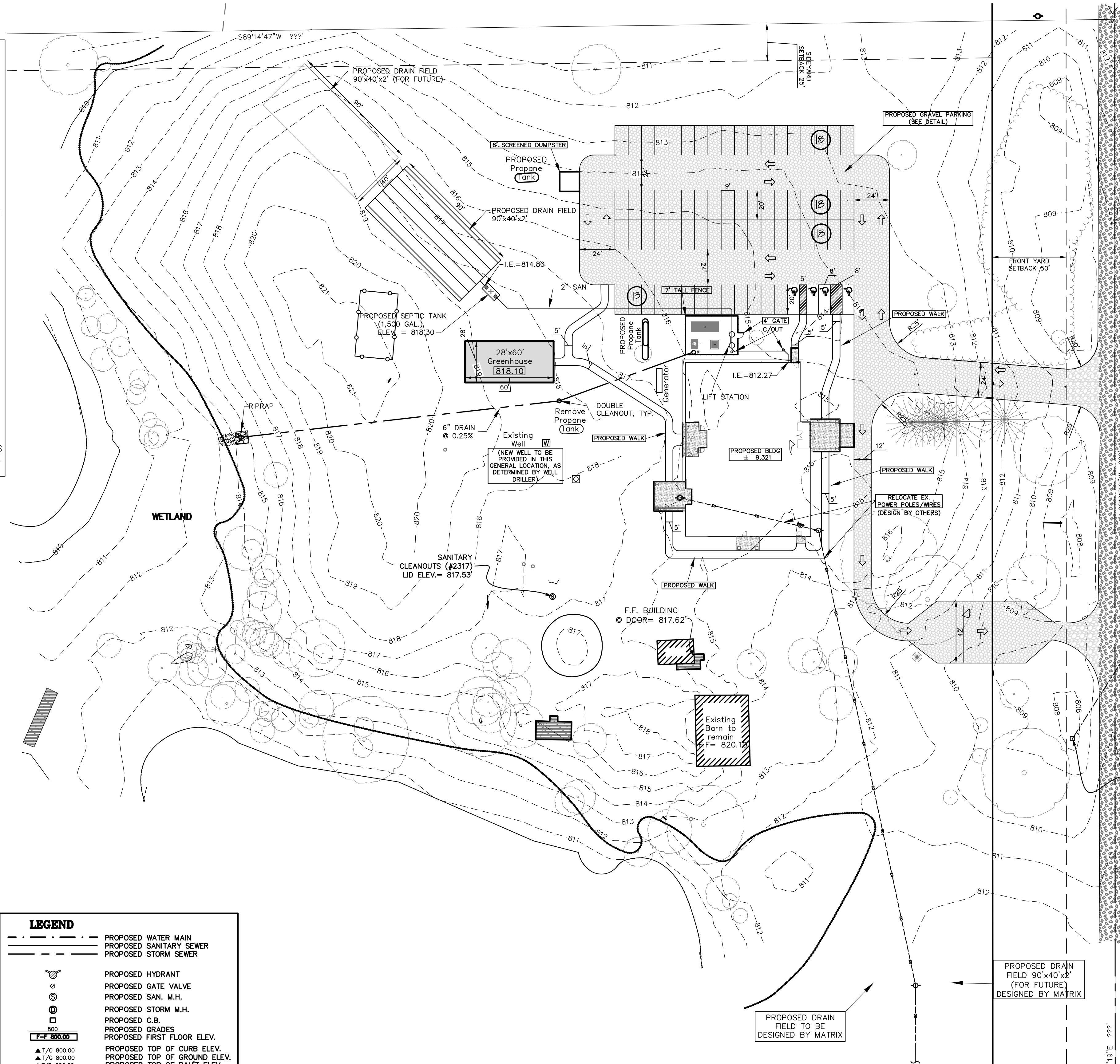
PART OF THE SE 1/4 OF SECTION 1, T12N-R4W, SEVILLE TOWNSHIP, GRATIOT COUNTY, MICHIGAN, DESCRIBED AS COMMENCING AT THE SE CORNER OF SAID SECTION; THENCE S89°04'14"W 2626.68 FEET ALONG THE SOUTH SECTION LINE TO THE S 1/4 CORNER OF SAID SECTION; THENCE N00°25'03"W 1491.50 FEET ALONG THE N-S 1/4 LINE; THENCE N88°59'51"E 2630.55 FEET TO A POINT ON THE EAST SECTION LINE OF SAID SECTION; THENCE S00°16'15"E 1491.54 FEET ALONG SAID EAST LINE TO THE POINT OF BEGINNING. THIS PARCEL CONTAINS 90.22 ACRES, MORE OR LESS, AND IS SUBJECT TO APPLICABLE EASEMENTS AND SERVITUDES OF USE OR RECORD, IF ANY. THIS DESCRIPTION REFLECTS THE PARCEL CONFIGURATION AS SHOWN ON THE CERTIFICATE OF SURVEY AS RECORDED IN LIBER 845, PAGE 830, GRATIOT COUNTY RECORDS, BY WILLIAM G. TINGLEY, P.S., MICHIGAN LICENSE #30104, DATED DECEMBER 21, 2007, JOB #07716-001.

SURVEYOR'S NOTES

1. THIS BOUNDARY SURVEY IS A ENTRACEMENT OF A SURVEY BY WILLIAM G. TINGLEY, P.S. #30104, RECORDED IN LIBER 852, PAGE 896, GRATIOT COUNTY RECORDS. SAID SURVEY REFLECTS THE NORTH PROPERTY LINE LOCATION PER BOUNDARY LINE AGREEMENT RECORDED IN LIBER 845, PAGE 830, GRATIOT COUNTY RECORDS.

2. WETLANDS DELINEATION SHOWN HEREON ARE BASED ON FLAGS PLACED BY CERTUS ENVIRONMENTAL ON SEPTEMBER 18, 2024, AS PART OF CERTUS JOB NO. 24-1311.

3. EASEMENT TO CONSUMERS POWER COMPANY, LIBER 235 OF DEEDS, PAGE 20, GRATIOT COUNTY RECORDS, DOES NOT AFFECT SUBJECT PROPERTY AND IS NOT SHOWN HEREON. NO OTHER EASEMENTS DISCOVERED DURING THE COURSE OF THIS SURVEY.

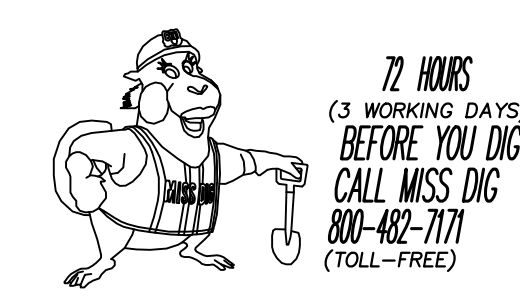


SITE DATA
PROPOSED NATURE CENTER IMPROVEMENT
TOTAL SITE AREA = 3,916,370 SF = 90.00 ACRES (INCLUDES R.O.W.)
ZONING: 102 AGRICULTURAL
BUILDING SETBACKS
FRONT - 50 FEET
SIDES - 25 FEET
REAR - 25 FEET
PARKING
TOTAL PROVIDED: 67 SPACES
UTILITIES
(EASEMENTS TO BE PROVIDED)
SEPTIC TO BE PROVIDED ON SITE
WELL TO BE PROVIDED ON SITE

EX. LEGEND

- DEED LINE
- - - DISTANCE NOT TO SCALE
- FENCE
- ASPHALT
- CONCRETE
- GRAVEL
- EXISTING SPOT ELEVATION
- EXISTING CONTOUR ELEVATION
- SANITARY SEWER
- STORM SEWER
- WATER LINE
- GAS LINE
- UNDERGROUND TELEPHONE
- UNDERGROUND TELEVISION
- UNDERGROUND ELECTRIC
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- LEGEND**
- PROPOSED WATER MAIN
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 - PROPOSED TOP OF WALK ELEV.
 - DENOTES S.E.S.C. KEYING SYSTEM



TAX ID# 13-001-010-00

STATE OF MICHIGAN
GREGORY A. PETRU
ENGINEER
NO. 50958
4-24-26

- SHEET INDEX**
- SITE AND UTILITY PH. 1 PLAN
 - EXISTING CONDITIONS & DEMO PLAN
 - GRADING PLAN PH.1 PLAN
 - SOIL EROSION CONTROL PLAN
 - LANDSCAPE PLAN
 - SITE AND UTILITY PH. 2 PLAN
 - GRADING PH. 2 PLAN
 - LANDSCAPE PHASE 2 PLAN
 - DETAILS

<p>REVISIONS</p> <p>10-24-25 PRELIMINARY SITE PLAN</p> <p>1-28-26 SITE PLAN SUBMITAL</p> <p>4-24-26 FOR BIDDING</p>	<p>KEBS, INC. KYES ENGINEERING BRYAN LAND SURVEYS</p> <p>2116 HASLETT ROAD, HASLETT, MI 48840 PH. 517-339-1014 FAX. 517-339-8047</p> <p>Marshall Office Ph. 269-781-9800</p> <p>FOREST HILL NATURE CENTER SITE & UTILITY PLAN - PH. 1</p>	<p>APPROVED BY: _____</p> <p>DESIGNER: _____</p> <p>PROJECT MGR. _____</p> <p>DATE: 10-24-25</p> <p>AUTHORIZED BY: _____</p> <p>ROGER DONALDSON</p>
<p>SCALE: 1" = 40'</p> <p>DATE: 10-24-25</p>	<p>APPROVED BY: _____</p> <p>SHEET 1 OF 9</p> <p>JOB # _____</p> <p>E-104659</p>	

DEMOLITION NOTES:

A DEMOLITION PERMIT IS REQUIRED, CONTRACTOR SHALL APPLY FOR AND RECEIVE PRIOR TO ANY DEMOLITION.

ALL UTILITIES MUST BE PROPERLY SHUT OFF/CAPPED AND/OR REMOVED PRIOR TO STARTING, VERIFY WITH UTILITY COMPANIES AND WITH SEVILLE TOWNSHIP/GRATIOT COUNTY BUILDING AND ENGINEERING DEPARTMENTS.

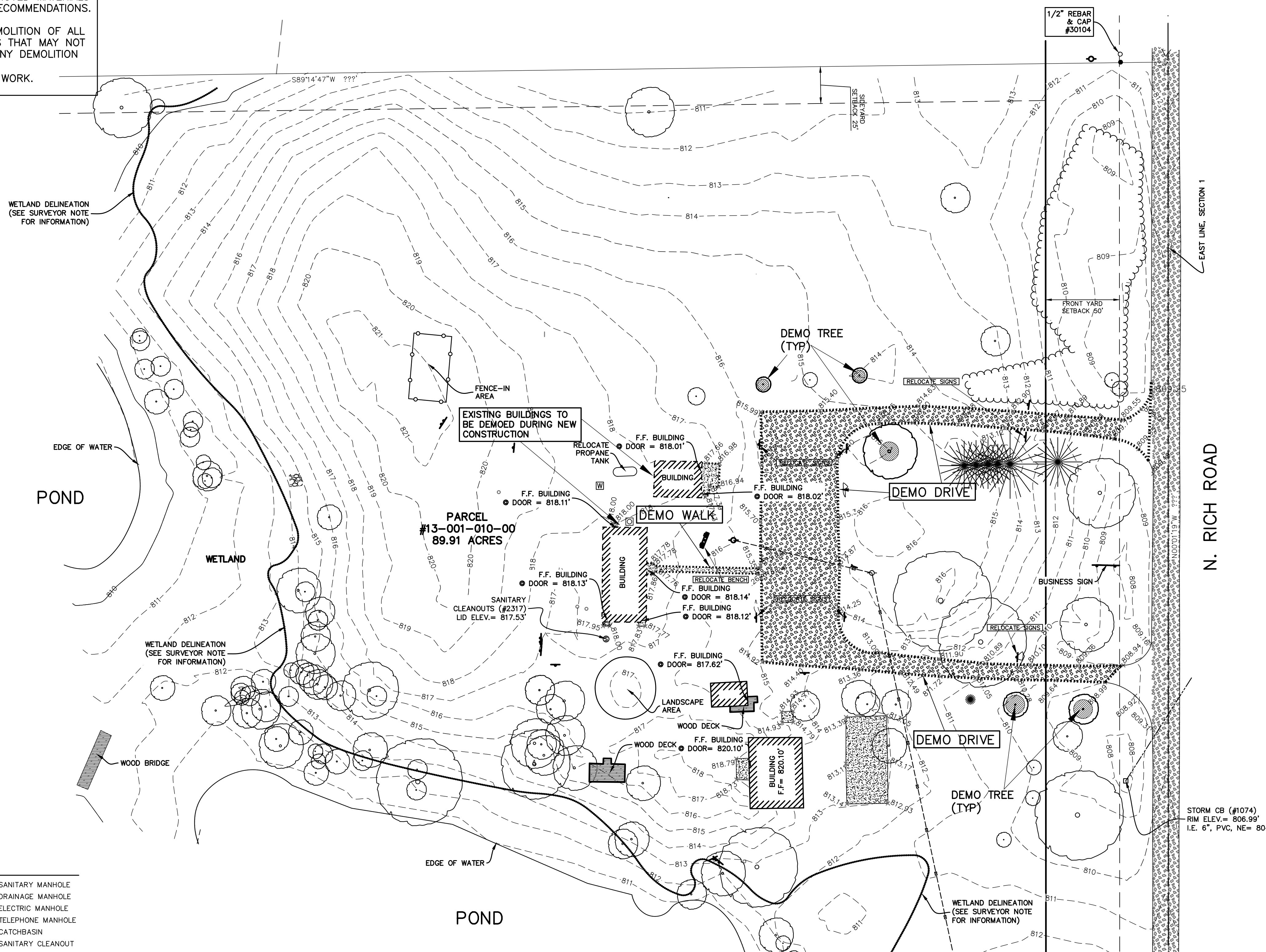
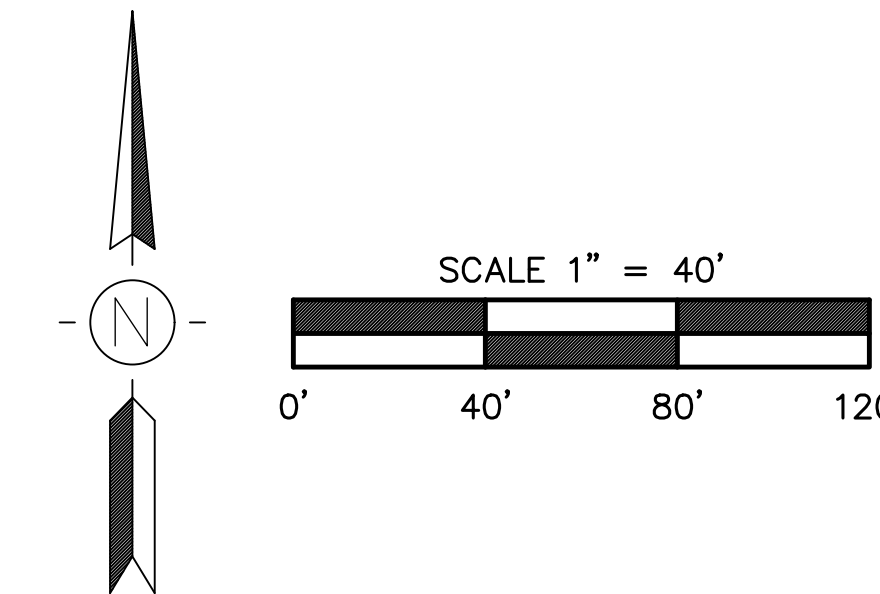
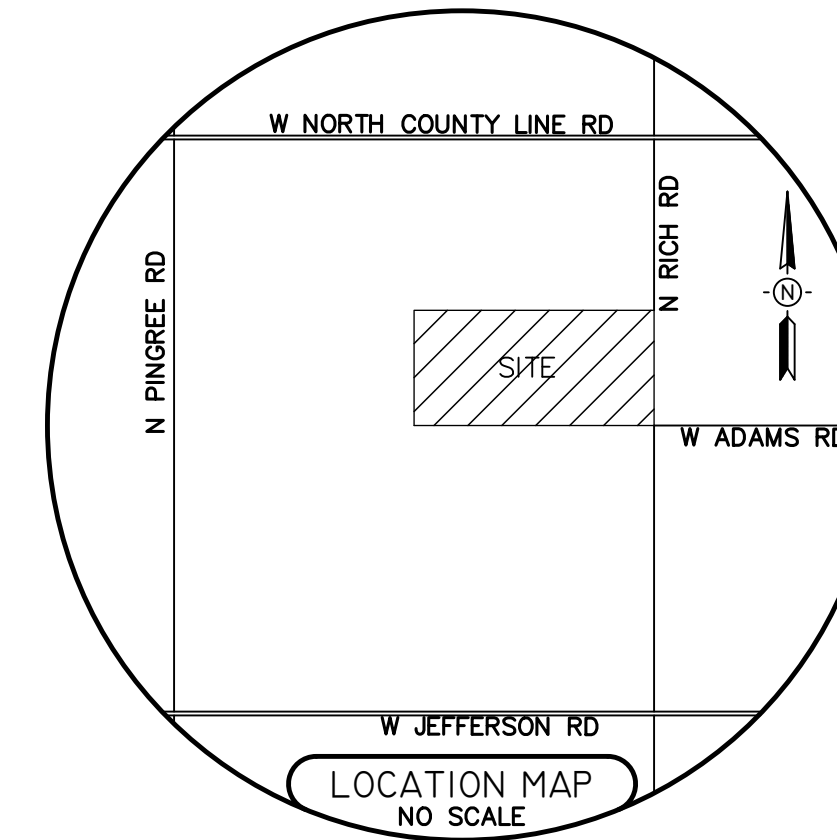
ALL EX. STRUCTURES AND ANY FOUNDATIONS SHALL BE REMOVED FROM THE SITE.

DEMOLITION CONTRACTOR SHALL REVIEW ALL ENVIRONMENTAL REPORTS AND DISPOSE OF ALL EXISTING AND REMOVED MATERIALS AS REQUIRED BY ENVIRONMENTAL REPORT AND RECOMMENDATIONS.

CONTRACTOR IS RESPONSIBLE FOR COMPLETE DEMOLITION OF ALL ITEMS WITHIN DEMOLITION LIMITS, INCLUDING ITEMS THAT MAY NOT BE SPECIFICALLY SHOWN. IF CONTRACTOR HAS ANY DEMOLITION QUESTIONS THEY SHALL BE REQUESTED TO OWNER/ARCHITECT/ENGINEER PRIOR TO STARTING WORK.

FOREST HILL NATURE CENTER

SEVILLE TOWNSHIP, GRATIOT COUNTY, MICHIGAN



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CERTIFICATION

I, MICHAEL NEAL VAN FOSSEN, PROFESSIONAL SURVEYOR #71291, CERTIFY THAT THIS SURVEY WAS MADE UNDER MY DIRECTION, THAT ALL CORNERS HAVE BEEN MARKED AS SHOWN, THAT THE RELATIVE PRECISION OF THE CORNERS IDENTIFIED ON THIS SURVEY AND SHOWN THEREON ARE WITHIN THE LIMITS CONSIDERED ACCEPTABLE BY THOSE IN THE PRACTICE OF PROFESSIONAL SURVEYING, AND THAT THE TOPOGRAPHY SHOWN HEREON IS AN ACCURATE REPRESENTATION OF SITE FEATURES AS OF SEPTEMBER 23, 2024, THE FINAL DATE OF FIELD WORK.

EX. LEGEND

	= DEED LINE
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LEGEND

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	= DENOTES S.E.S.C. KEYING SYSTEM

SEWER INVENTORIES

STM CB #1074
 6" - 806.99'
 6" PVC NE - 804.69'

SAN CLEANOUTS #2317
 RIM - 817.53'



	REVISIONS 10-24-25 PRELIMINARY SITE PLAN 1-28-26 SITE PLAN SUBMITTAL 4-24-26 FOR BIDDING	<p>KEBS, INC. KYES ENGINEERING BRYAN LAND SURVEYS 2116 HASLETT ROAD, HASLETT, MI 48840 PH. 517-339-1014 FAX. 517-339-8047 Marshall Office Ph. 269-781-9800</p>	SURVEY #
	FOREST HILL NATURE CENTER EXISTING CONDITIONS & DEMO PLAN		APPROVED BY: GAP SHEET 2 OF 9
	SCALE: 1" = 40' DATE: 10-24-25 AUTHORIZED BY: ROGER DONALDSON		DESIGNER: GAP PROJECT MGR. GAP JOB #: E-104659
	DESIGNER: GAP PROJECT MGR. GAP		APPROVED BY: GAP SHEET 2 OF 9 JOB #: E-104659

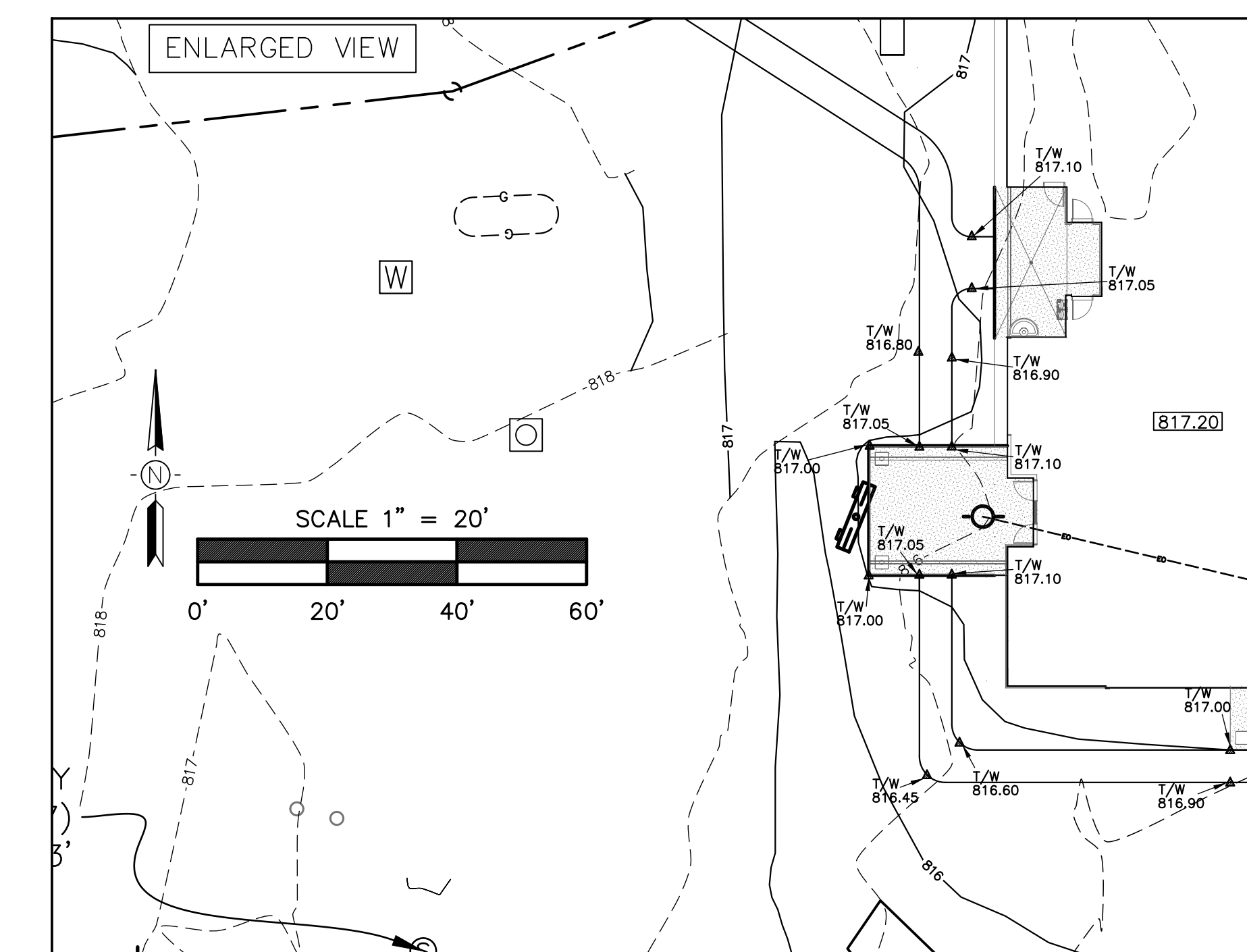
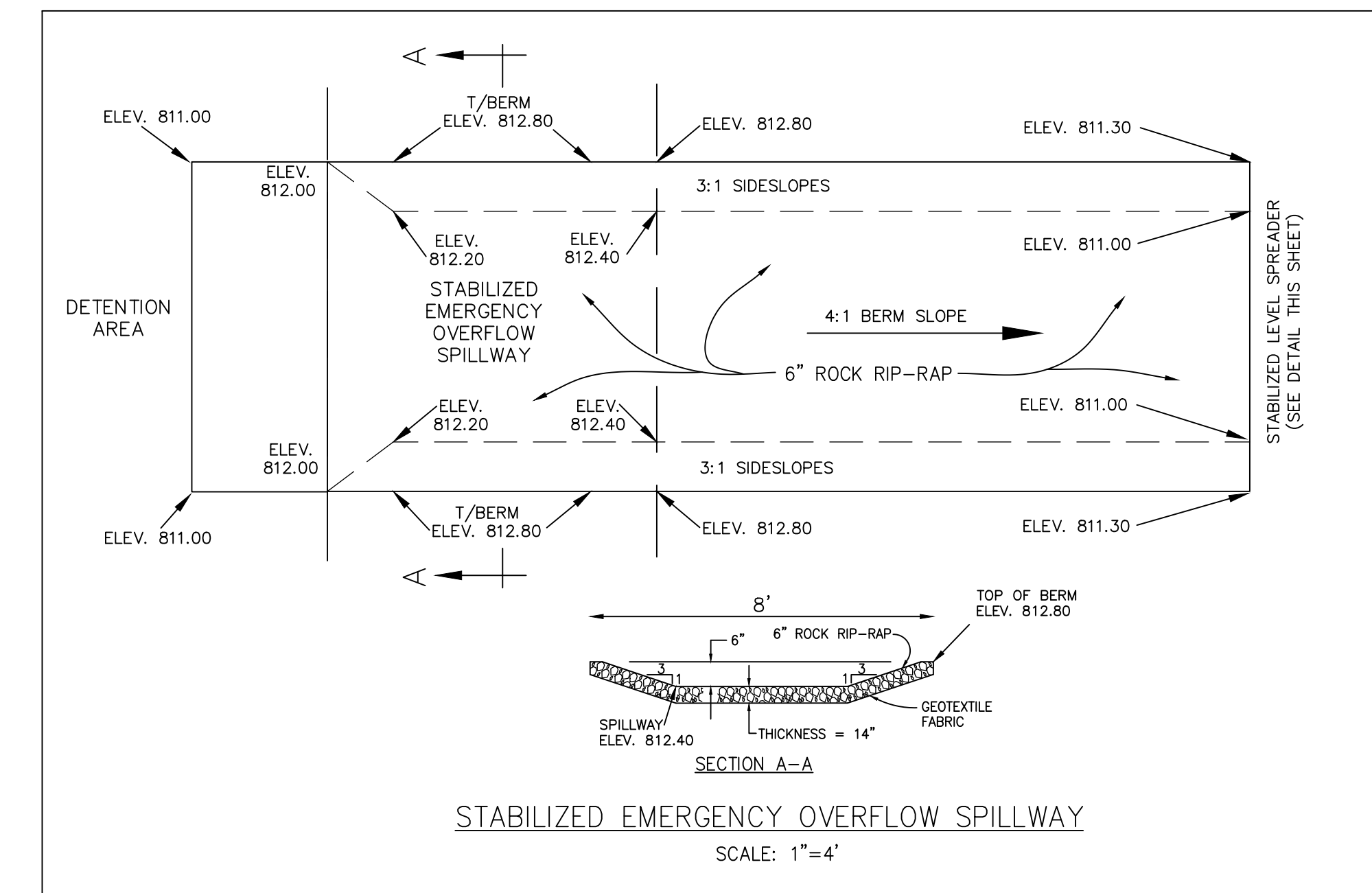
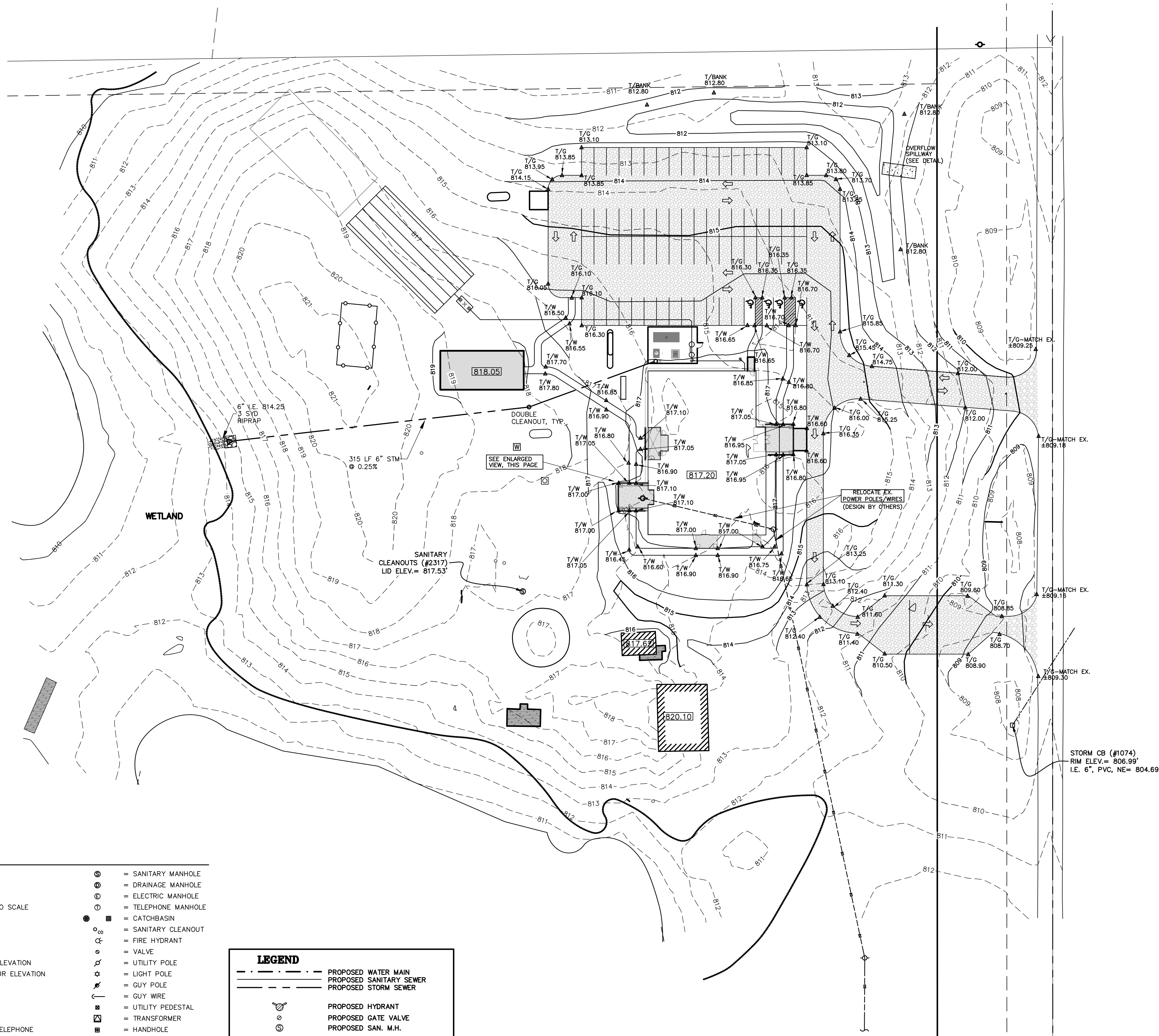
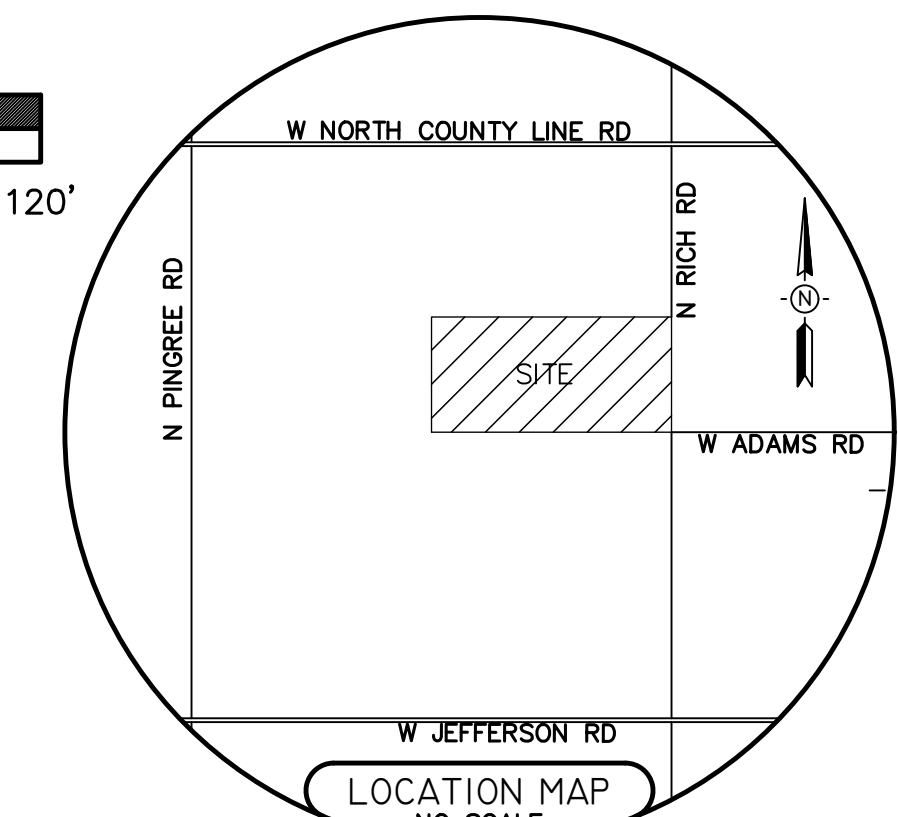
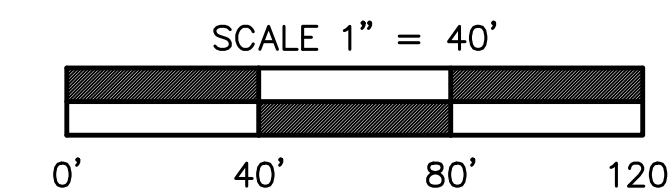
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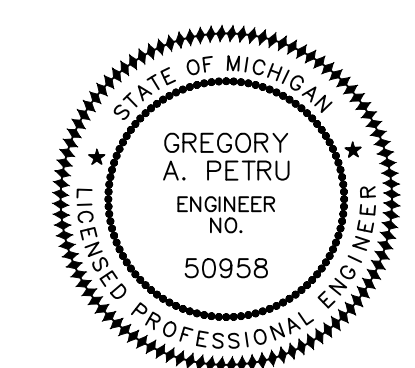
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STORM CB (#1074)
RIM ELEV. = 806.99'
I.E. 6", PVC, NE = 804.69'

TAX ID# 13-001-010-00



REVISIONS 10-24-25 PRELIMINARY SITE PLAN 1-28-26 SITE PLAN SUBMITTAL 4-24-26 FOR BIDDING		KEYS, INC. KYES ENGINEERING BRYAN LAND SURVEYS 2116 HASLETT ROAD, HASLETT, MI 48840 PH. 517-339-1014 FAX. 517-339-8047 Marshall Office Ph. 269-781-9800	
SCALE: 1" = 40' DATE: 10-24-25 AUTHORIZED BY: ROGER DONALDSON		DESIGNER: G.A.P. PROJECT MGR. G.A.P. APPROVED BY: G.A.P. SHEET 3 OF 9 JOB #: E-104659	

CONSTRUCTION SCHEDULE & SEQUENCING:		2026											
		JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
PLACE AND MAINTAIN TEMPORARY EROSION CONTROLS													
TOPSOIL STRIPPING & STOCKPILING													
DEMOLITION AND ON-SITE UTILITIES CONSTRUCTION													
SITE GRADING & EARTHWORK													
PARKING AND WALK CONSTRUCTION													
TOPSOIL SPREADING													
PERMANENT SEEDING													
FINAL INSPECTIONS & REMOVE TEMPORARY EROSION CONTROLS													

TOTAL ACRES = 89.907 ACRES
 AREA DISTURBED = 3.887 ACRES

DENOTES EXISTING DRAINAGE FLOW →
 DENOTES PROPOSED DRAINAGE FLOW →

—●— SILT FENCE (TYP.)
 - - - - - LIMITS OF EARTH DISTURBANCE (TYP.)

SOIL EROSION CONTROL NOTES:

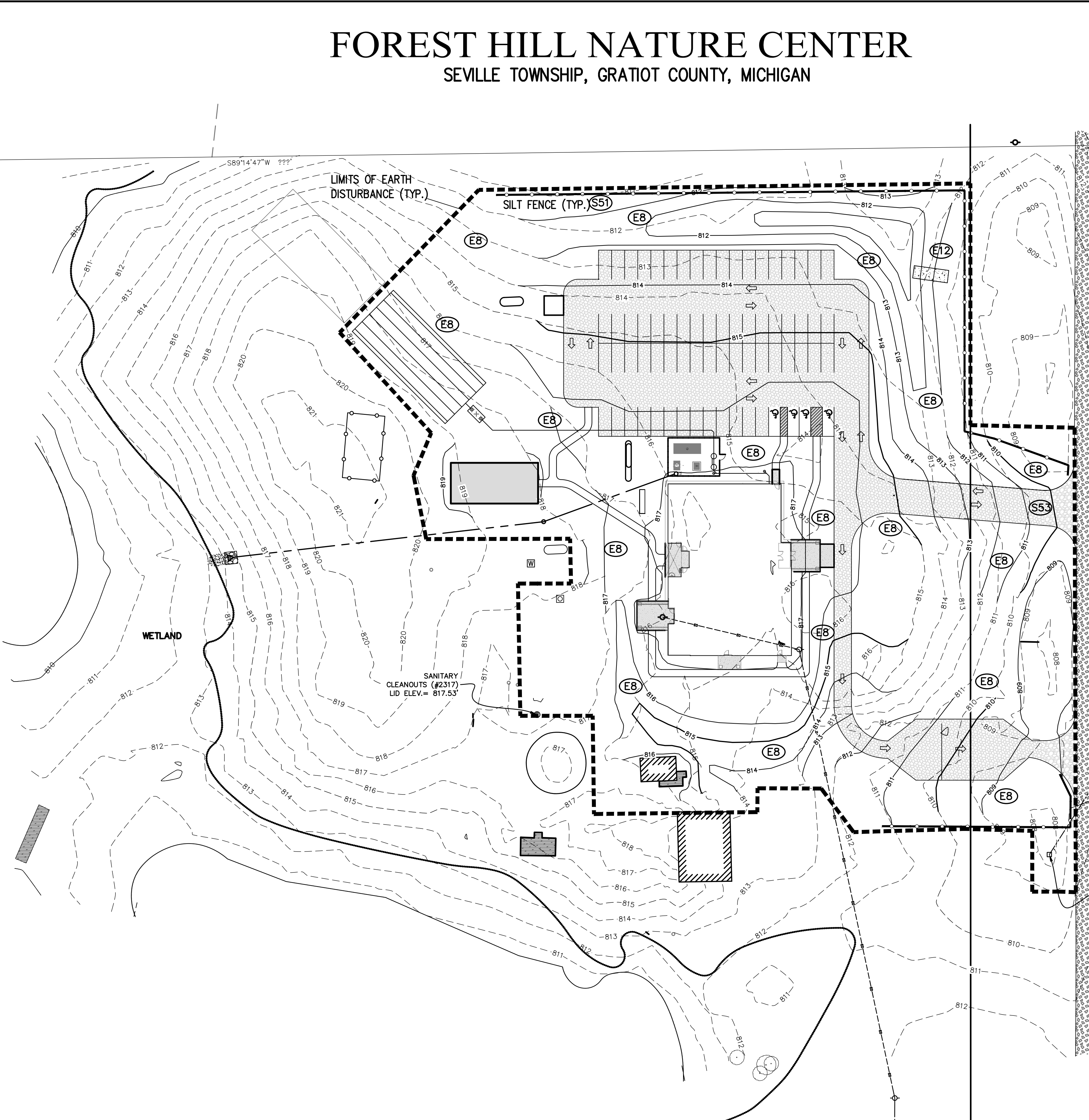
- ALL SOIL EROSION CONTROL MEASURES SHALL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH SEVILLE TOWNSHIP'S REQUIREMENTS AND PROJECT SPECIFICATIONS.
- ANY EROSION OR SEDIMENT FROM WORK ON THIS SITE SHALL BE CONTAINED ON THE SITE AND NOT BE ALLOWED TO COLLECT ON ANY OFF-SITE AREAS, OR IN WATERWAYS. WATERWAYS INCLUDE BOTH NATURAL AND MANMADE OPEN DITCHES, STREAMS, STORM DRAINS, LAKES AND PONDS.
- CONTRACTOR SHALL APPLY TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES AS REQUIRED AND AS DIRECTED ON THESE PLANS. ALL TEMPORARY SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO OR AT COMMENCEMENT OF CONSTRUCTION ACTIVITY. HE SHALL REMOVE TEMPORARY MEASURES AS SOON AS PERMANENT STABILIZATION OF SLOPES, DITCHES AND OTHER EARTH CHANGES HAVE BEEN ESTABLISHED.
- DUST CONTROL WILL BE EXERCISED AT ALL TIMES WITHIN THE PROJECT BY THE CONTRACTORS. SPRINKLING TANK TRUCKS SHALL BE AVAILABLE AT ALL TIMES TO BE USED ON HAUL ROUTES OR OTHER PLACES WHERE DUST BECOMES A PROBLEM.
- SEDIMENT @ C.B.'s SHALL BE REMOVED AFTER EVERY STORM. SEEDING OF EXPOSED AREAS SHALL BE COMPLETED WITHIN 5 DAYS OF FINAL GRADING.
- ALL DISTURBED AREAS WILL RECEIVE PERMANENT EROSION CONTROL WITHIN 5 DAYS OF FINAL GRADING. AREAS NOT STABILIZED SHALL BE DIVERTED TOWARD RETENTION/SEDIMENT BASINS.
- WEATHER AND UNFORESEEN DELAYS MAY RESULT IN EXTENSION OF CONSTRUCTION SCHEDULE.
- SITE DEVELOPMENT CONTRACTOR SHALL INSPECT SOIL EROSION CONTROL MEASURES ON A DAILY BASIS, MORE OFTEN IF NECESSARY. ANY NEEDED REPAIRS SHALL BE PROMPTLY MADE.
- SITE DEVELOPMENT CONTRACTOR SHALL MEET WITH SOIL EROSION ENFORCEMENT OFFICER PRIOR TO START OF WORK.
- ALL DISTURBANCE SHALL BE KEPT AT LEAST 25' FROM WATER FEATURES LEAVING AN UNDISTURBED VEGETATION BUFFER, UNLESS ADDITIONAL S.E.S.C. MEASURES ARE PROPOSED AND APPROVED BY SEVILLE TOWNSHIP.
- EACH DISTURBANCE ADJACENT TO WETLANDS, INLAND STREAMS & LAKES, OR ADJACENT TO SLOPES GREATER THAN 6% SHALL BE TOPSOILED, SEEDED, AND EROSION CONTROL MATING APPROPRIATE FOR THE SLOPE CONDITIONS INSTALLED, WITHIN 3 DAYS OF FINAL GRADING OR FINAL ACTIVITY OF THESE PLANS.
- STOCK PILE AREAS SHALL BE LOCATED GREATER THAN 25' FROM WETLANDS & INLAND STREAMS & LAKES, AND AT LEAST 25' FROM PROPERTY LINES.
- WATER FROM TRENCHES AND OTHER EXCAVATIONS SHALL BE PUMPED INTO A FILTRATION BAG TO REMOVE SEDIMENT FROM THE WATER.
- THE PROJECT SITE IS NOT WITHIN 500 FT. OF A STREAM, LAKE OR DRAINAGE CHANNEL.
- ANY DEBRIS, MUD/DIRT ON ANY PAVED AREA RESULTING FROM CONSTRUCTION TRAFFIC SHALL BE CLEANED AND/OR SWEEPED IN A PROMPT MANNER.
- REMOVE EXCESS SOIL FROM THE SITE AND DISPOSE OF PROPERLY IN ACCORDANCE WITH APPLICABLE REGULATIONS.

SEQUENCE OF CONSTRUCTION

- INSTALL ALL TEMPORARY SILT FENCE PER PLAN AND AS SHOWN ON DETAIL.
- USE CONSTRUCTION ENTRANCE'S AS SHOWN ON PLAN FOR CONSTRUCTION ENTRANCE/EXIT.
- INSTALL INLET PROTECTION FABRIC DROPS BETWEEN THE FRAME AND COVER OF ALL EXISTING YARD BASINS OR INLETS WHICH MAY BE SUSCEPTIBLE TO SEDIMENT EROSION FROM THE PROPOSED CONSTRUCTION AS SHOWN IN THESE PLANS.
- WHILE MAINTAINING A VEGETATIVE BUFFER WHENEVER POSSIBLE STRIP AND STOCKPILE TOPSOIL ABOVE AREAS OF PROPOSED EXCAVATION OR GRADING FOR LATER USE ON SITE. PLACE STOCKPILED TOPSOIL IN AREAS WHICH ARE NEITHER SUBJECT TO NOR ALONG STEEP SLOPES. SEED AND MULCH STOCKPILES IMMEDIATELY TO PREVENT HIGH RUNOFF WIND BLOWN SEDIMENT POLLUTION AND EXCESSIVE DUST.
- EXCAVATE FOR PROPOSED BUILDING, SIDEWALKS & UTILITIES CONSTRUCTION AS NECESSARY. DO NOT EXPOSE AREAS FAR IN ADVANCE OF THE PROPOSED CONSTRUCTION FOR THAT AREA. ROUGHEN AND SCARIFY EXPOSED SURFACES TO REDUCE RUNOFF VELOCITY AND SEDIMENTATION. MAINTAIN VEGETATION WHENEVER POSSIBLE TO PROVIDE A NATURAL BUFFER.
- TOPSOIL, SEED, FERTILIZE AND MULCH ALL EXPOSED AREAS AS SOON AS FEASIBLE TO PROTECT AND RESTORE PERMANENT VEGETATION.
- WATER EXPOSED GROUND REGULARLY TO CONTROL AIRBORNE PARTICULATE MATTER.
- THE SOIL EROSION PERMITTEE IS RESPONSIBLE FOR ENSURING THAT ALL PERMANENT AND TEMPORARY SOIL EROSION AND SEDIMENTATION CONTROL MEASURES THROUGHOUT THE ENTIRE CONSTRUCTION PROCESS ARE INSTALLED CORRECTLY AND MAINTAINED UNTIL PERMANENT VEGETATION IS REESTABLISHED IN ALL EXPOSED AREAS.
- THE SITE WILL BE PERIODICALLY INSPECTED BY SEVILLE TOWNSHIP. THE CONTRACTOR SHALL BECOME FAMILIAR WITH THE RULES AND REGULATIONS OF THAT OFFICE.
- UPON FINAL APPROVED INSPECTION OF THE COMPLETED CONSTRUCTION BY ALL REVIEWING AGENCIES, THE CONTRACTOR SHALL REMOVE ALL TEMPORARY SOIL EROSION AND SEDIMENTATION CONTROL MEASURES.
- ANY CONSTRUCTION ACCESS ROAD WILL BE PROTECTED WITH CRUSHED STONE OR CRUSHED CONCRETE, AGGREGATE SIZE 1"-2".

EX. LEGEND

- = DEED LINE
- - - - = DISTANCE NOT TO SCALE
- - - - = FENCE
- - - - = ASPHALT
- - - - = CONCRETE
- - - - = GRAVEL
- - - - = EXISTING SPOT ELEVATION
- - - - = EXISTING CONTOUR ELEVATION
- - - - = SANITARY SEWER
- - - - = STORM SEWER
- - - - = WATER LINE
- - - - = GAS LINE
- - - - = UNDERGROUND TELEPHONE
- - - - = UNDERGROUND TELEVISION
- - - - = UNDERGROUND ELECTRIC
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- ⊙ = AIR CONDITIONING UNIT



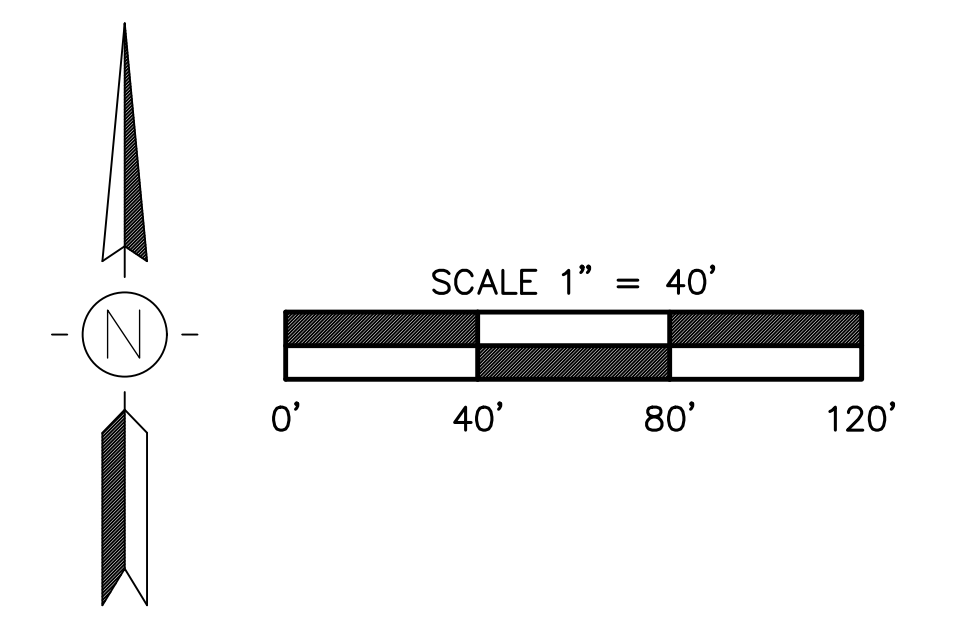
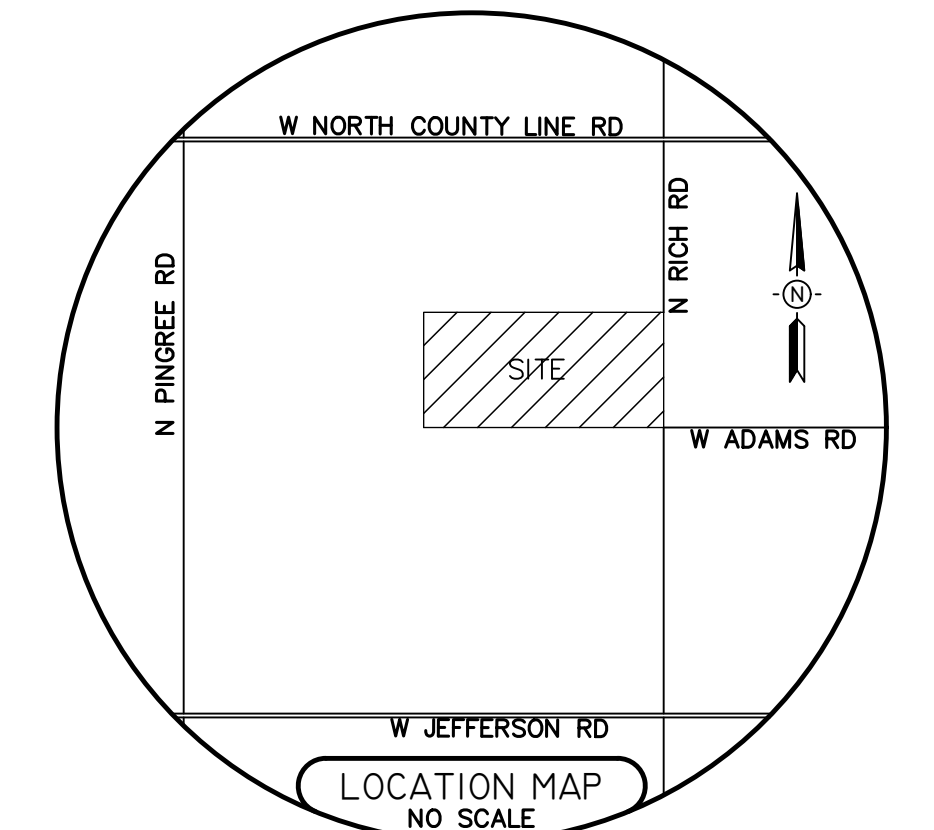
LEGEND

— - - -	PROPOSED WATER MAIN
— - - -	PROPOSED SANITARY SEWER
— - - -	PROPOSED STORM SEWER
⊙	PROPOSED HYDRANT
⊙	PROPOSED GATE VALVE
⊙	PROPOSED SAN. M.H.
⊙	PROPOSED STORM M.H.
⊙	PROPOSED C.B.
⊙	PROPOSED GRADES
⊙	PROPOSED FIRST FLOOR ELEV.
⊙	PROPOSED TOP OF CURB ELEV.
⊙	PROPOSED TOP OF GROUND ELEV.
⊙	PROPOSED TOP OF PAVT ELEV.
⊙	PROPOSED TOP OF WALK ELEV.
⊙	DENOTES S.E.S.C. KEYING SYSTEM

SOIL TYPE:
 CpcadB - Capac loam, 0-4% slopes
 MaB - Marlette sandy loam, 2-6% slopes
 MeA - Metamora-Capac sandy loams, 0-2% slopes
 SeA - Selfridge loamy sand, till plain, 0-2% slopes
 Th - Thomas muck

FOREST HILL NATURE CENTER

SEVILLE TOWNSHIP, GRATIOT COUNTY, MICHIGAN



MICHIGAN DEPARTMENT OF MANAGEMENT AND BUDGET
S-E-S-C KEYING SYSTEM

KEY	BEST MANAGEMENT PRACTICES	SYMBOL	WHERE USED
E8	PERMANENT SEEDING		Stabilization method utilized on sites where earth change has been completed (final grading attained).
E12	RIPRAP		Use along shorelines, waterways, or where concentrated flows occur. Slows velocity, reduces sediment load, and reduces erosion.
S51	SILT FENCE		Use adjacent to critical areas, to prevent sediment laden sheet flow from entering these areas.
S53	STABILIZED CONSTRUCTION ACCESS		Used at every point where construction traffic enters or leaves a construction site.
S58	INLET PROTECTION FABRIC DROP		Use at stormwater inlets, especially at construction sites.

LEGAL DESCRIPTIONS

PER. WARRANTY DEED L. 465, P. 749, GRATIOT COUNTY RECORDS:
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NOTE:
 REMOVE EXCESS SOIL FROM THE SITE AND DISPOSE PROPERLY IN ACCORDANCE WITH APPLICABLE REGULATIONS

TAX ID# 13-001-010-00

REVISIONS
 10-24-25 PRELIMINARY SITE PLAN
 1-28-26 SITE PLAN SUBMITTAL
 4-24-26 FOR BIDDING

KEBS, INC. KYES ENGINEERING
 BRYAN LAND SURVEYS
 2116 HASLETT ROAD, HASLETT, MI 48840
 PH. 517-339-1014 FAX. 517-339-8047
 Marshall Office
 Ph. 269-781-9800

FOREST HILL NATURE CENTER
 SOIL EROSION CONTROL PLAN - PH. 1

SCALE: 1" = 40' DESIGNER: APPROVED BY:
 DATE: 10-24-25 PROJECT MGR. SHEET 4 OF 9
 AUTHORIZED BY: ROGER DONALDSON JOB #: E-104659

GREGORY A. PETRU
 ENGINEER NO. 50958
 LICENSED PROFESSIONAL ENGINEER

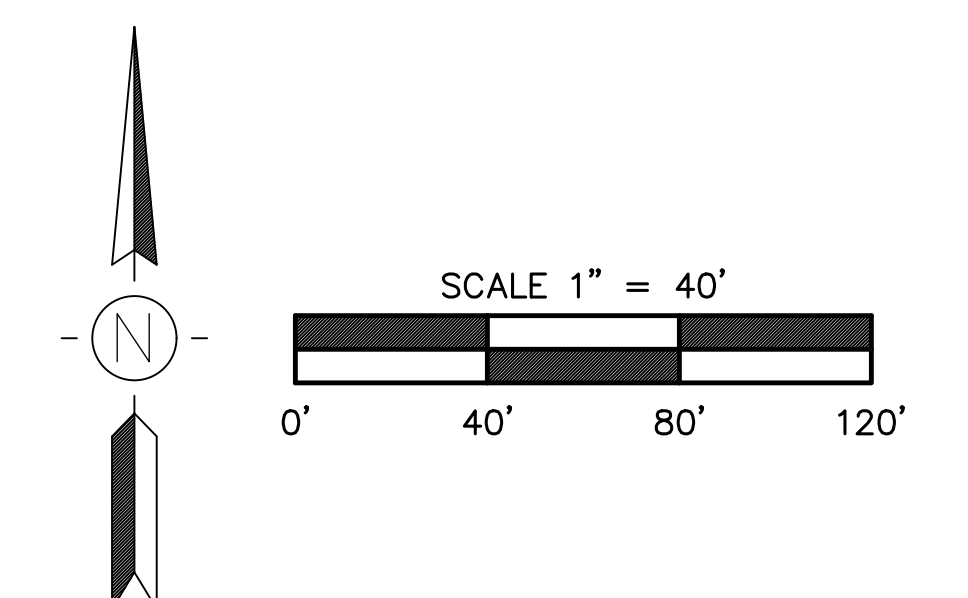
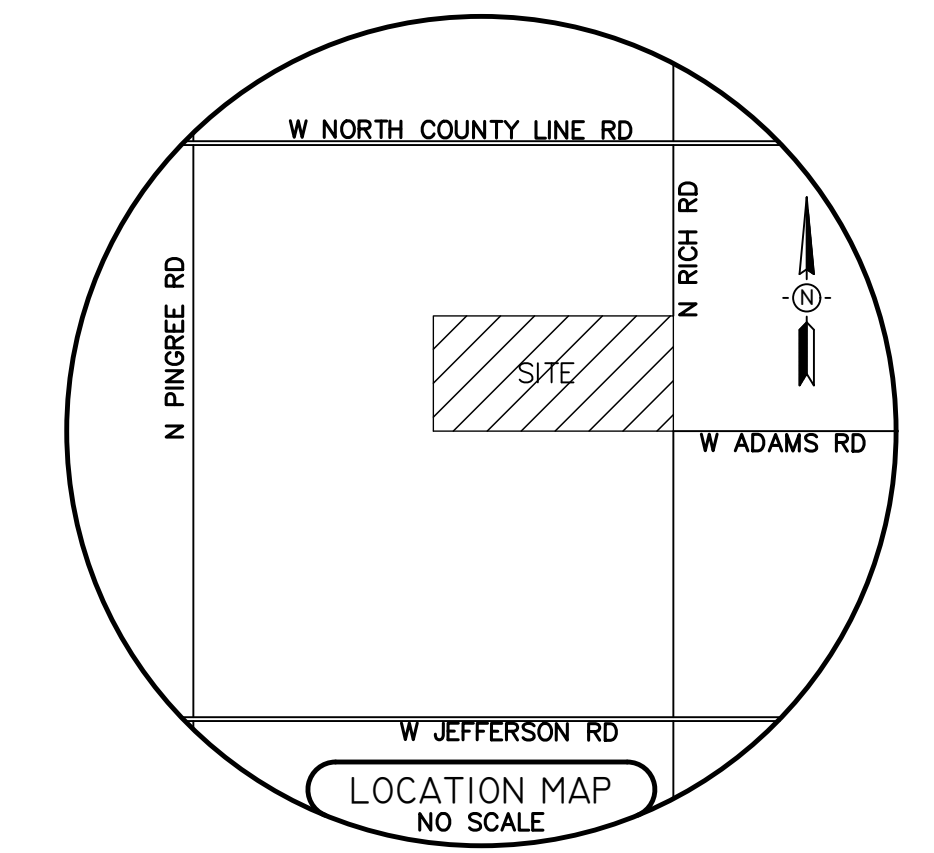
72 HOURS (3 WORKING DAYS) BEFORE YOU DIG CALL MISS DIG 800-482-7171 (TOLL-FREE)

NOTE: STORM WATER RUNOFF FROM THIS SITE WILL NOT ADVERSELY AFFECT ADJACENT PROPERTIES.

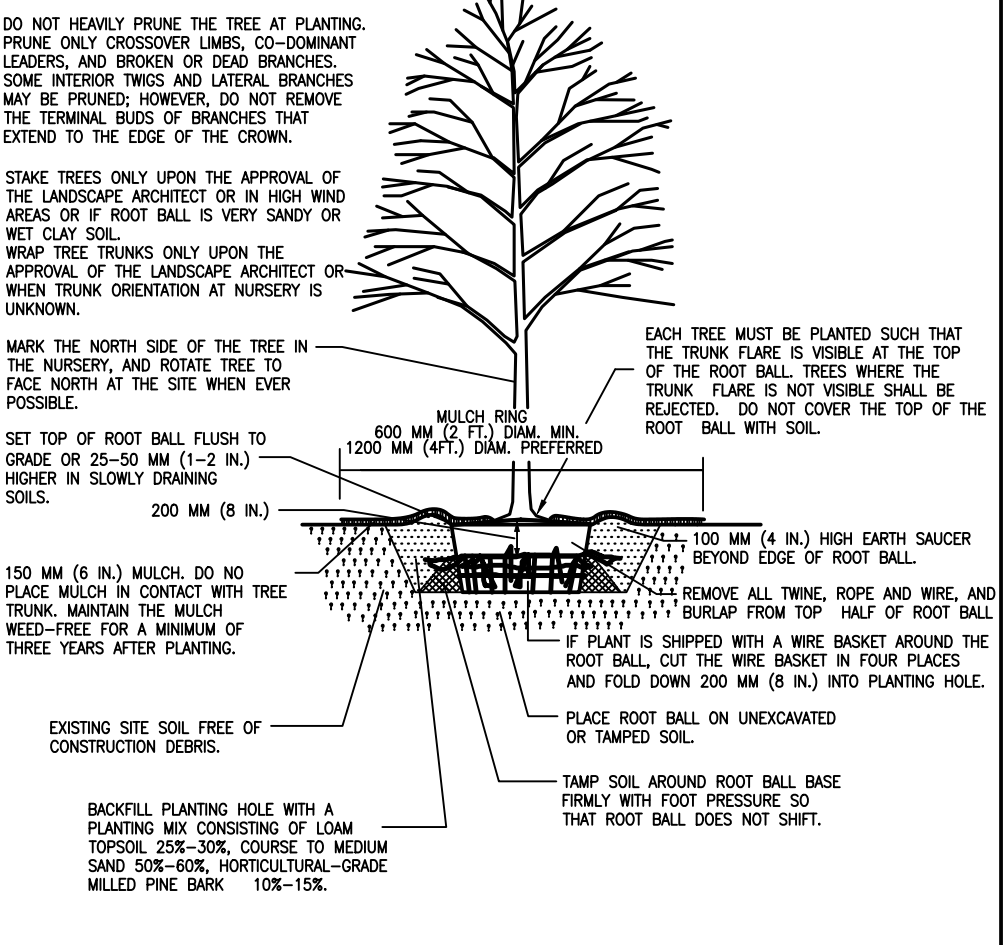
NOTE: ANY STOCKPILING OF SOIL SHALL BE SURROUNDED BY SILT FENCE, SEEDED IF LEFT OVER 30 DAYS.

FOREST HILL NATURE CENTER

SEVILLE TOWNSHIP, GRATIOT COUNTY, MICHIGAN



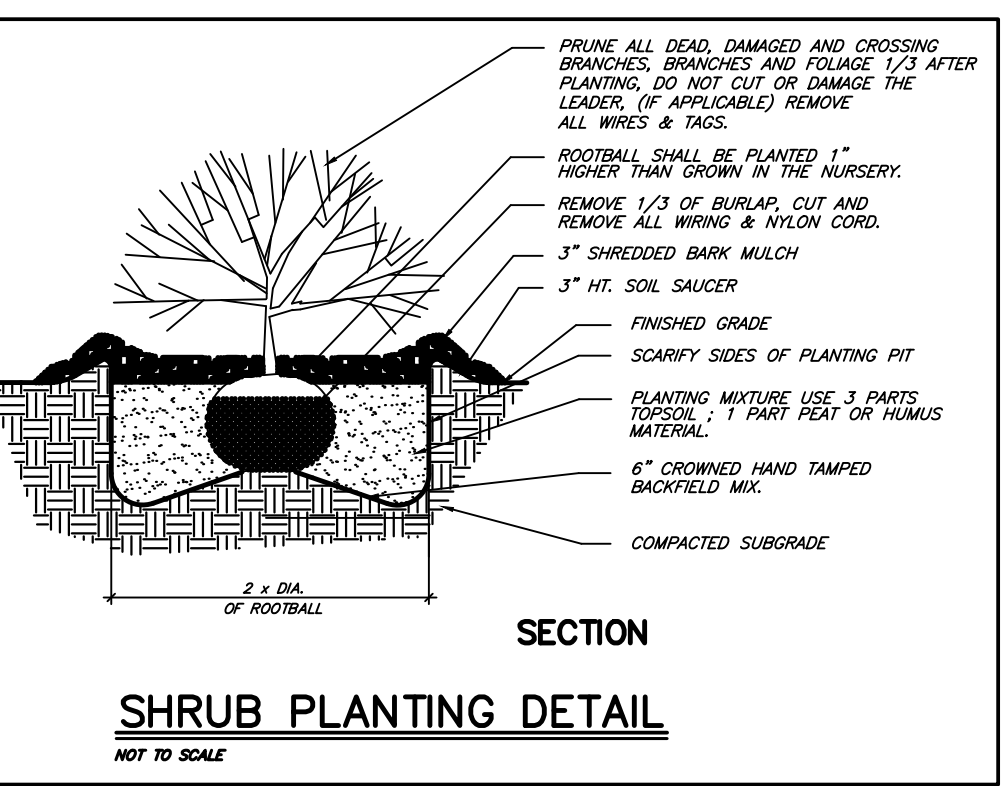
INTERNATIONAL SOCIETY OF ARBORICULTURE
 1400 WEST ANTHONY DRIVE
 CHAMPAIGN, IL 61821
 (217) 355-8411
 (217) 355-8516 FAX



TREE PLANTING DETAIL - B&B TREES IN ALL SOIL TYPES
 NOTE: THIS DETAIL ASSUMES THAT THE PLANTING SPACE IS LARGER THAN 2400 MM (8 FT.) SQUARE, OPEN TO THE SKY, AND NOT COVERED BY ANY PAVING OR GRATING.

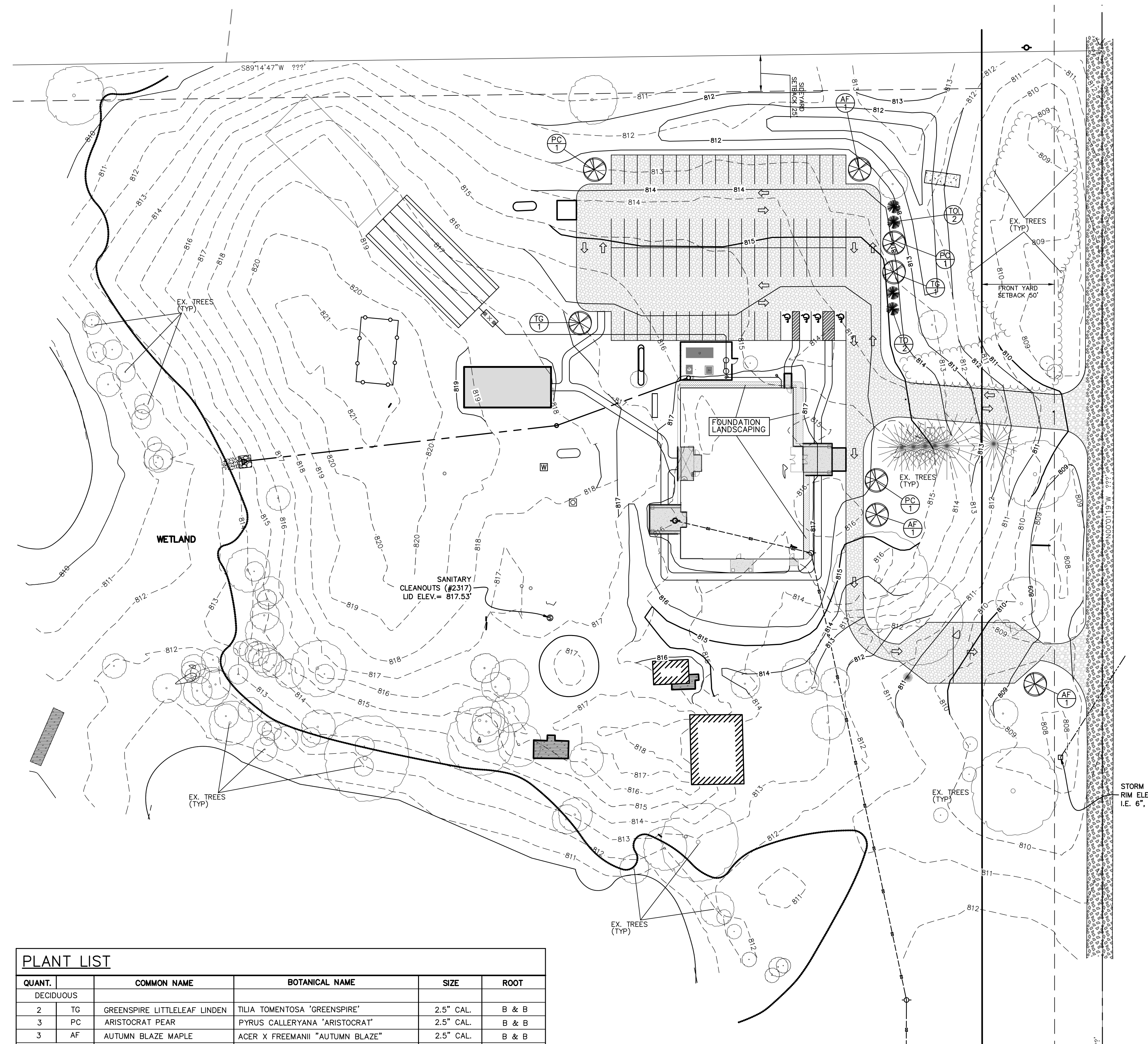
LANDSCAPE NOTES:

- LANDSCAPE AND TURF AREAS SHALL BE IRRIGATED TO MAINTAIN PLANT MATERIALS IN GOOD AND HEALTHY CONDITION.
- ALL MULCH IS TO BE A MINIMUM OF 6".
- ALL LANDSCAPED AREAS WILL BE AUTOMATICALLY IRRIGATED.



LEGEND

- PROPOSED WATER MAIN
- PROPOSED SANITARY SEWER
- PROPOSED STORM SEWER
- PROPOSED HYDRANT
- PROPOSED GATE VALVE
- PROPOSED SAN. M.H.
- PROPOSED STORM M.H.
- PROPOSED C.B.
- PROPOSED GRADES
- PROPOSED FIRST FLOOR ELEV.
- ▲ 1/4 800.00 PROPOSED TOP OF CURB ELEV.
- ▲ 1/8 800.00 PROPOSED TOP OF GROUND ELEV.
- ▲ 1/8 800.00 PROPOSED TOP OF PAVT ELEV.
- ▲ 1/8 800.00 PROPOSED TOP OF WALK ELEV.
- DENOTES S.E.S.C. KEYING SYSTEM



PLANT LIST

QUANT.	COMMON NAME	BOTANICAL NAME	SIZE	ROOT
DECIDUOUS				
2	TG GREENSPIRE LITTLELEAF LINDEN	TILIA TOMENTOSA 'GREENSPIRE'	2.5" CAL.	B & B
3	PC ARISTOCRAT PEAR	PYRUS CALLERYANA 'ARISTOCRAT'	2.5" CAL.	B & B
3	AF AUTUMN BLAZE MAPLE	ACER X FREEMANII 'AUTUMN BLAZE'	2.5" CAL.	B & B
EVERGREENS				
4	TO EMERALD GREEN ARBORVITAE	THUJA OCCIDENTALIS 'EMERALD'	5-8' HT.	B & B
BUILDING FOUNDATION PLANTINGS**				
BF	BLUE FESCUE	FESTUCA GLAUCA	1 GAL	CONT.
HY	HYDRANGEA	ARBORESCENS ANNABELLE	2 GAL	CONT.
DL	DAYLILLIES	HEMEROCALLIS	2 GAL	CONT.
GA	GLOBE ARBORVITAE	THUJA OCCIDENTALIS	2 GAL	CONT.

**MIX AND MATCH LOCATIONS OF BUILDING FOUNDATION PLANTINGS. (OTHER PLANTS/FLOWERS MAY BE SUBSTITUTED, QUANTITIES BY OWNER)

LEGAL DESCRIPTIONS

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TAX ID# 13-001-010-00

REVISIONS

10-24-25 PRELIMINARY SITE PLAN
1-28-26 SITE PLAN SUBMITTAL
4-24-26 FOR BIDDING

KEBS, INC. KYES ENGINEERING
 2116 HASLETT ROAD, HASLETT, MI 48840
 PH. 517-339-1014 FAX. 517-339-8047
 Marshall Office
 Ph. 269-781-9800

FOREST HILL NATURE CENTER
 LANDSCAPE PLAN - PH. 1

DESIGNER: GREGORY A. PETRU
 ENGINEER NO. 50958

APPROVED BY: GREGORY A. PETRU

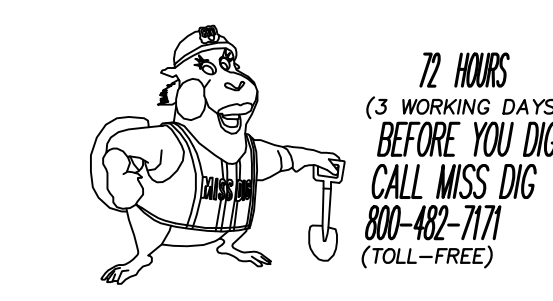
DATE: 10-24-25 PROJECT MGR. GREGORY A. PETRU

AUTHORIZED BY: ROGER DONALDSON

SCALE: 1" = 40'

DATE: 10-24-25

JOB #: E-104659



EX. LEGEND

- DEED LINE
- DISTANCE NOT TO SCALE
- FENCE
- ASPHALT
- CONCRETE
- GRAVEL
- EXISTING SPOT ELEVATION
- EXISTING CONTOUR ELEVATION
- SANITARY SEWER
- STORM SEWER
- WATER LINE
- GAS LINE
- UNDERGROUND TELEPHONE
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- OVERHEAD WIRES
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- CATCHBASIN
- SANITARY CLEANOUT
- FIRE HYDRANT
- VALVE
- UTILITY POLE
- LIGHT POLE
- GUY POLE
- GUY WIRE
- UTILITY PEDESTAL
- TRANSFORMER
- HANDHOLE
- ELECTRIC METER
- GAS METER
- WATER METER
- SOIL BORING
- SIGN
- POST
- AIR CONDITIONING UNIT

FOREST HILL NATURE CENTER

SEVILLE TOWNSHIP, GRATIOT COUNTY, MICHIGAN

SEWER INVENTORIES

STM CB #1074
RIM - 806.99'
6" PVC NE - 804.69'

SAN CLEANOUTS #2317
RIM - 817.53'

SURVEY DONE BY OTHERS

LEGAL DESCRIPTIONS

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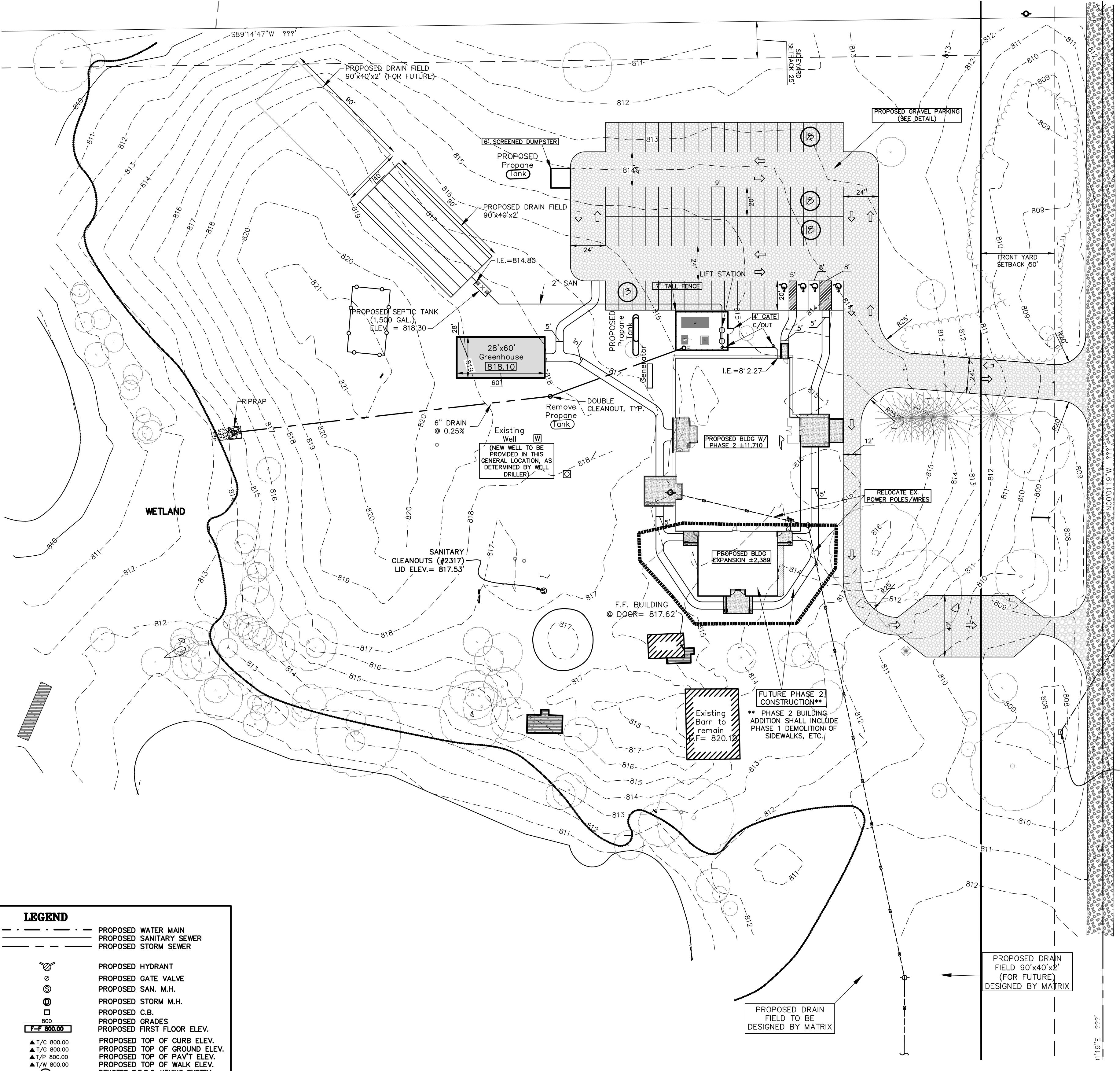
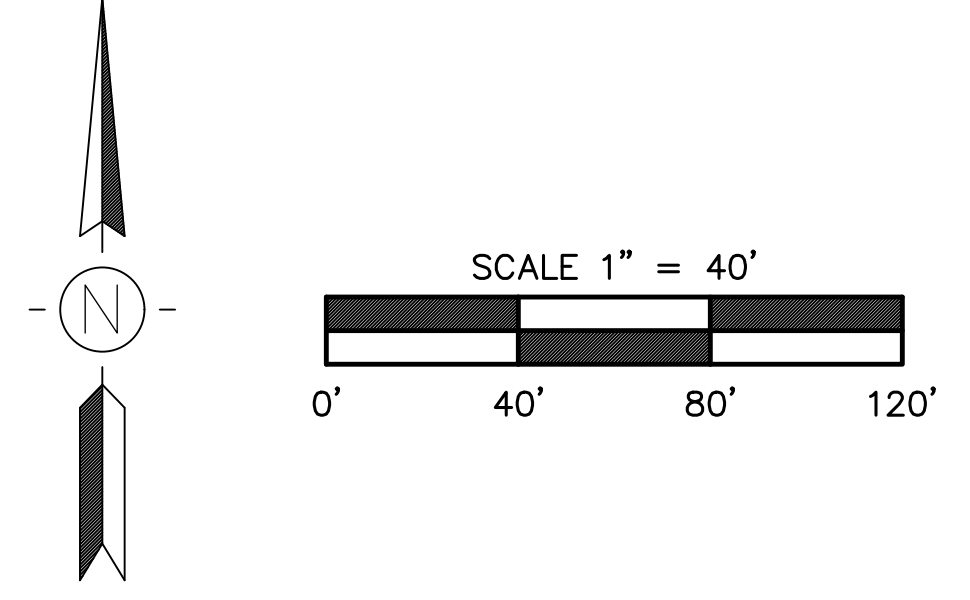
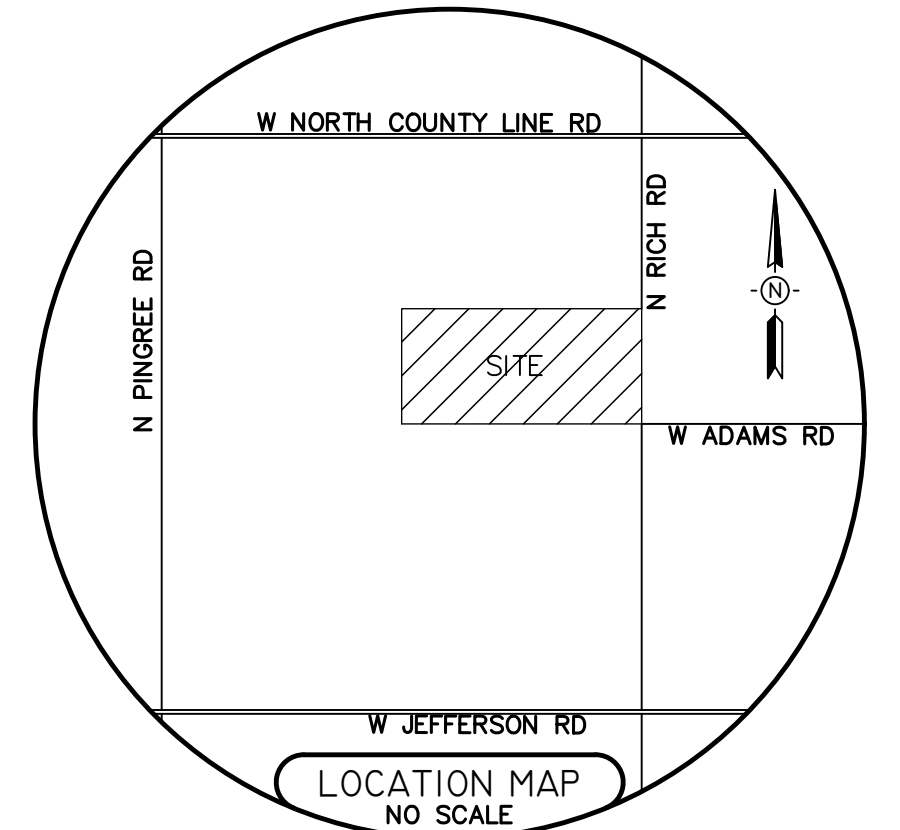
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SURVEYOR'S NOTES

- THIS BOUNDARY SURVEY IS AN ENTRACEMENT OF A SURVEY BY WILLIAM G. TINGLEY, P.S. #30104, RECORDED IN LIBER 852, PAGE 896, GRATIOT COUNTY RECORDS. SAID SURVEY REFLECTS THE NORTH PROPERTY LINE LOCATION PER BOUNDARY LINE AGREEMENT RECORDED IN LIBER 845, PAGE 830, GRATIOT COUNTY RECORDS.
- WETLANDS DELINEATION SHOWN HEREON ARE BASED ON FLAGS PLACED BY CERTUS ENVIRONMENTAL ON SEPTEMBER 18, 2024, AS PART OF CERTUS JOB NO. 24-1311.
- EASEMENT TO CONSUMERS POWER COMPANY, LIBER 235 OF DEEDS, PAGE 20, GRATIOT COUNTY RECORDS, DOES NOT AFFECT SUBJECT PROPERTY AND IS NOT SHOWN HEREON. NO OTHER EASEMENTS DISCOVERED DURING THE COURSE OF THIS SURVEY.



EX. LEGEND

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	= FENCE		= ELECTRIC MANHOLE
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	= CONCRETE		= CATCHBASIN
	= GRAVEL		= SANITARY CLEANOUT
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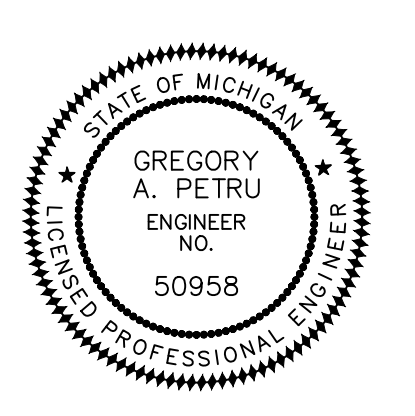
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	DENOTES S.E.S.C. KEYING SYSTEM

STORM CB (#1074)
RIM ELEV = 806.99'
I.E. 6" PVC, NE = 804.69'



TAX ID# 13-001-010-00



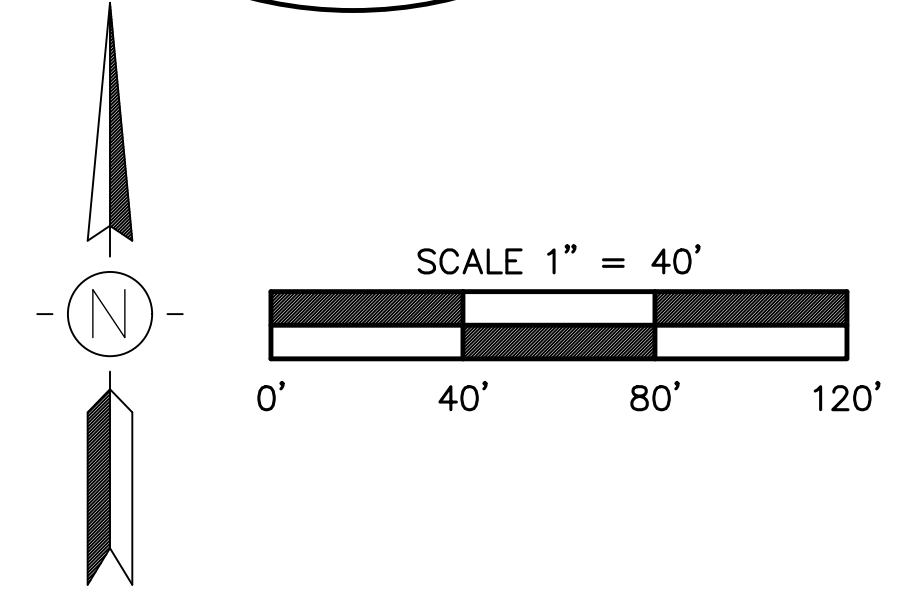
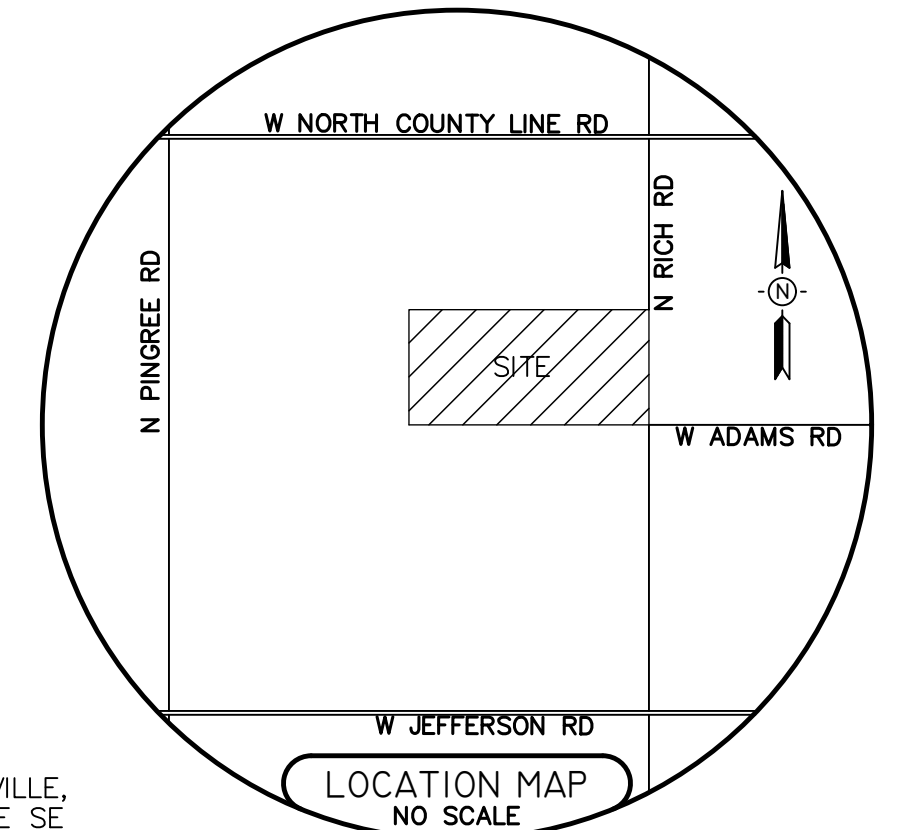
<p>REVISIONS</p> <p>10-24-25 PRELIMINARY SITE PLAN</p> <p>1-28-26 SITE PLAN SUBMITTAL</p> <p>4-24-26 FOR BIDDING</p>	<p>KEBS, INC. KYES ENGINEERING BRYAN LAND SURVEYS</p> <p>2116 HASLETT ROAD, HASLETT, MI 48840 PH. 517-339-1014 FAX. 517-339-8047</p> <p>Marshall Office Ph. 269-781-9800</p> <p>FOREST HILL NATURE CENTER SITE & UTILITY - PH. 2</p>	<p>DESIGNER: G.A.P.</p> <p>PROJECT MGR. G.A.P.</p> <p>APPROVED BY: G.A.P.</p>
<p>SCALE: 1" = 40'</p> <p>DATE: 10-24-25</p> <p>AUTHORIZED BY: ROGER DONALDSON</p>	<p>SHEET 6 OF 9</p> <p>JOB # E-104659</p>	

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FOREST HILL NATURE CENTER

SEVILLE TOWNSHIP, GRATIOT COUNTY, MICHIGAN



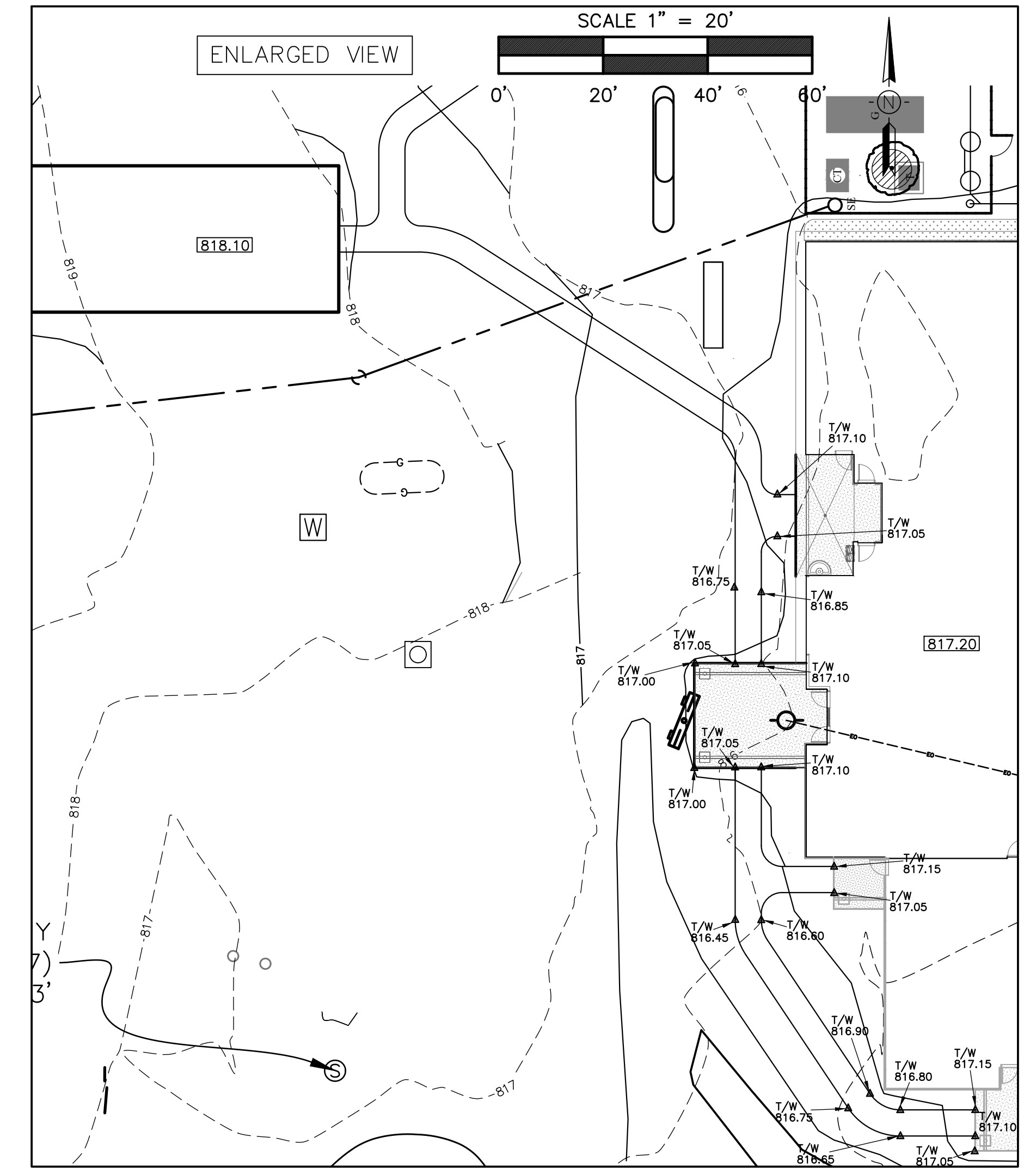
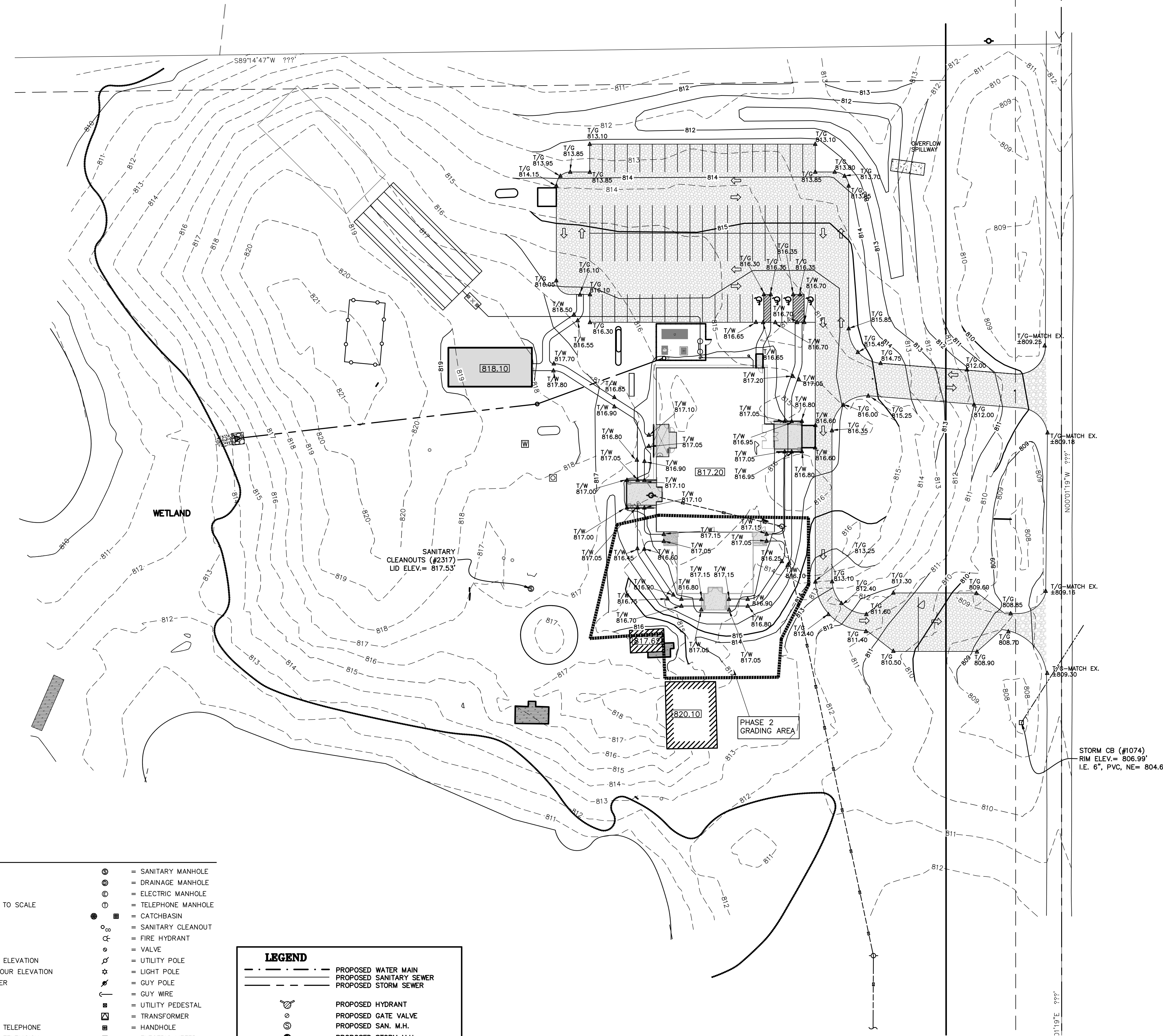
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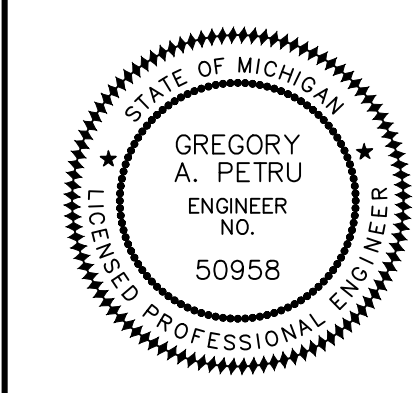


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 - = PROPOSED STORM M.H.
 - = PROPOSED C.B.
 - = PROPOSED GRADES
 - = PROPOSED FIRST FLOOR ELEV.
 - = PROPOSED TOP OF CURB ELEV.
 - = PROPOSED TOP OF GROUND ELEV.
 - = PROPOSED TOP OF PAYT ELEV.
 - = PROPOSED TOP OF WALK ELEV.
 - = DENOTES S.E.S.C. KEYING SYSTEM

STORM CB (#1074)
RIM ELEV. = 806.99'
I.E. 6", PVC, NE = 804.69'

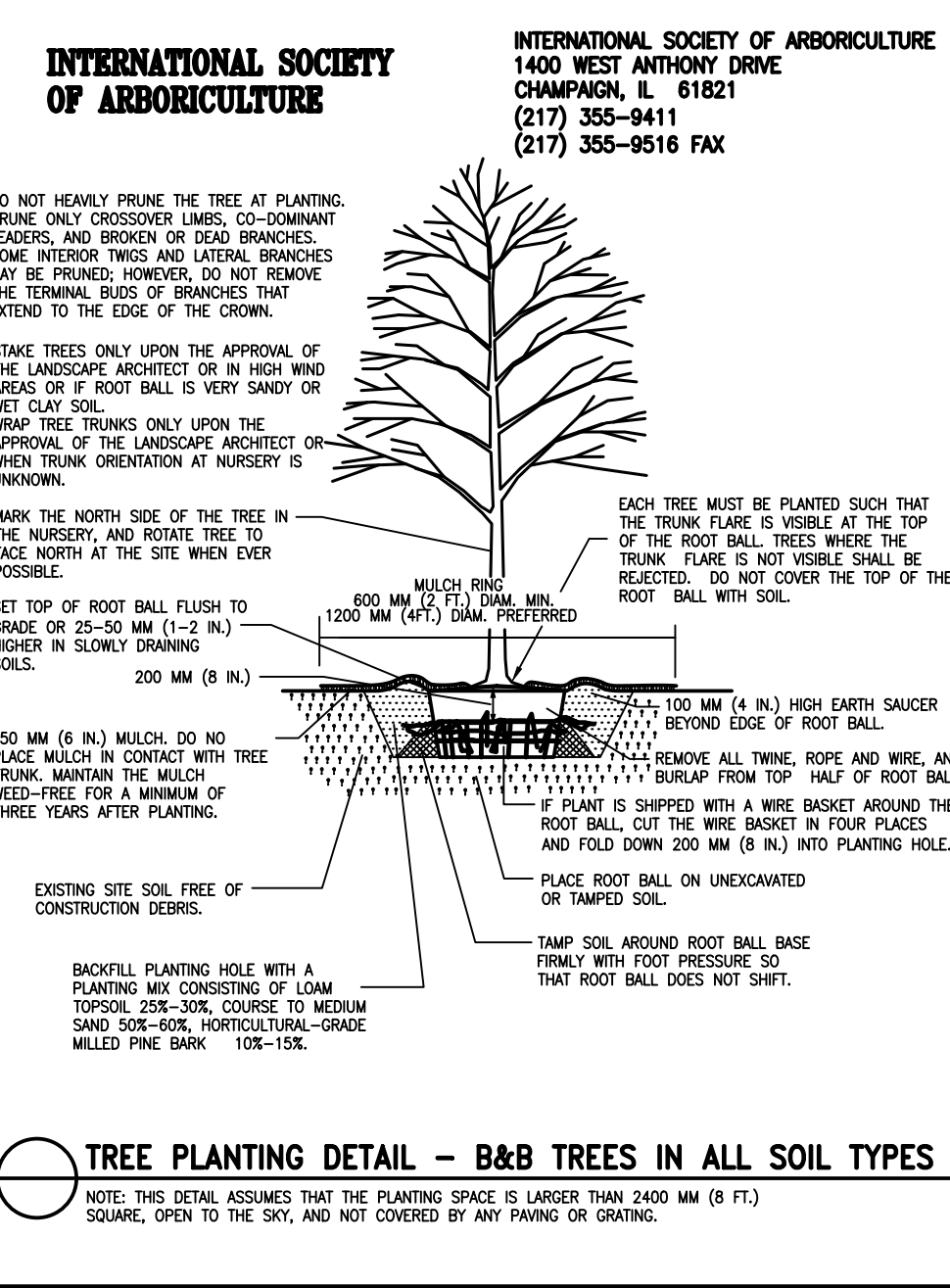
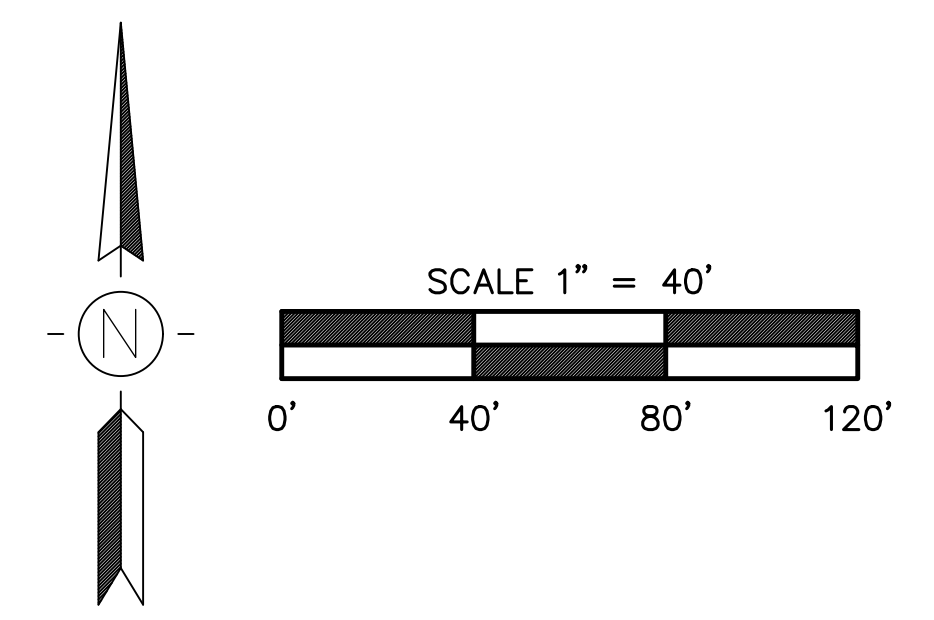
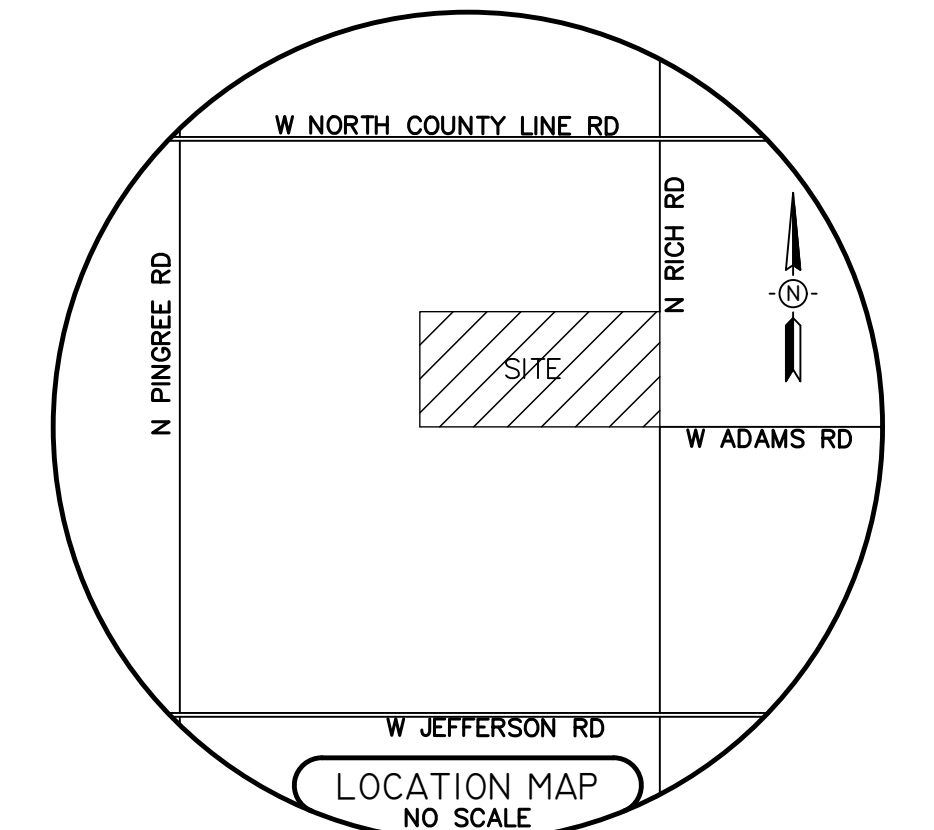
TAX ID# 13-001-010-00



REVISIONS 10-24-25 PRELIMINARY SITE PLAN 1-28-26 SITE PLAN SUBMITTAL 4-24-26 FOR BIDDING		KEBS, INC. BRYAN ENGINEERING 2116 HASLETT ROAD, HASLETT, MI 48840 PH. 517-339-1014 FAX. 517-339-8047 Marshall Office Ph. 269-781-9800
SCALE: 1" = 40' DATE: 10-24-25 AUTHORIZED BY: ROGER DONALDSON		
DESIGNER: GREGORY A. PETRU ENGINEER NO. 50958		APPROVED BY: GAF SHEET 7 OF 9 JOB #: E-104659

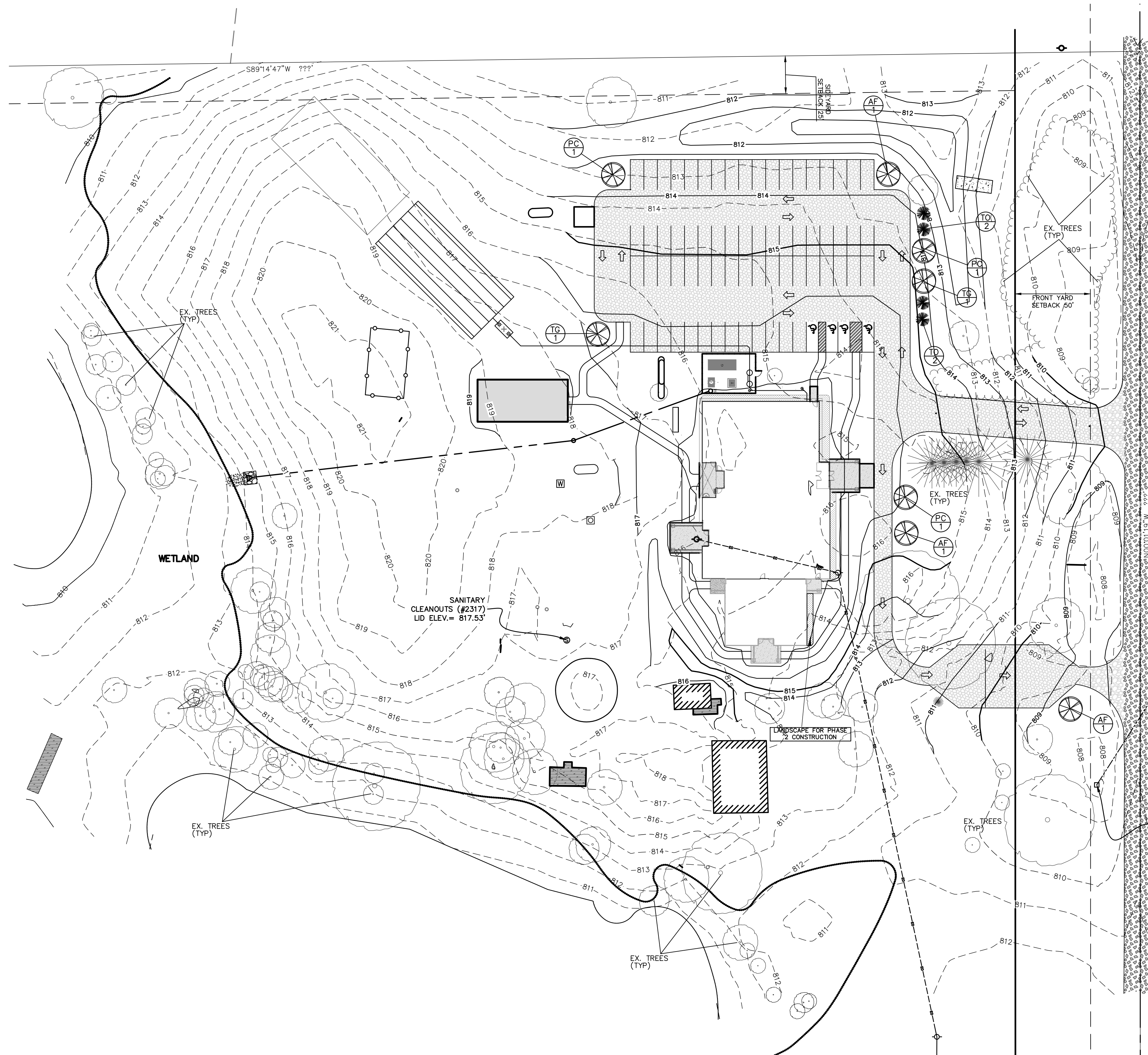
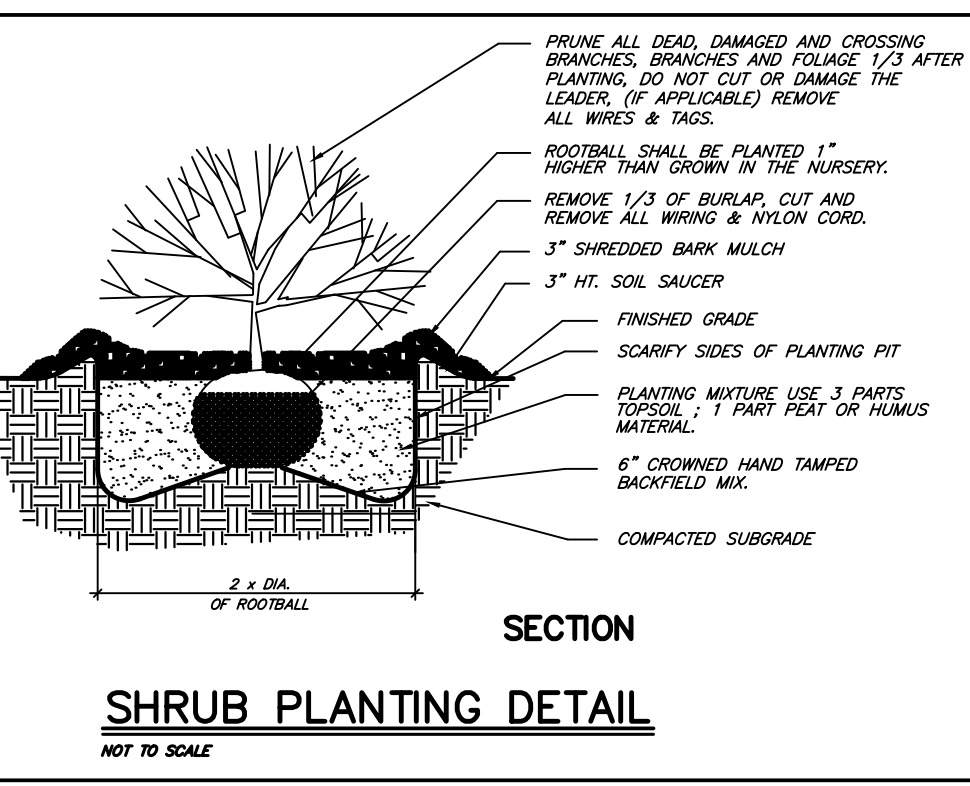
FOREST HILL NATURE CENTER

SEVILLE TOWNSHIP, GRATIOT COUNTY, MICHIGAN



LANDSCAPE NOTES:

- LANDSCAPE AND TURF AREAS SHALL BE IRRIGATED TO MAINTAIN PLANT MATERIALS IN GOOD AND HEALTHY CONDITION.
- ALL MULCH IS TO BE A MINIMUM OF 6".
- ALL LANDSCAPED AREAS WILL BE AUTOMATICALLY IRRIGATED.



- EX. LEGEND**
- DEED LINE
 - DISTANCE NOT TO SCALE
 - FENCE
 - ASPHALT
 - CONCRETE
 - GRAVEL
 - EXISTING SPOT ELEVATION
 - EXISTING CONTOUR ELEVATION
 - SANITARY SEWER
 - STORM SEWER
 - WATER LINE
 - GAS LINE
 - UNDERGROUND TELEPHONE
 - UNDERGROUND TELEVISION
 - UNDERGROUND ELECTRIC
 - OVERHEAD WIRES
 - EDGE OF WOODS
 - DECIDUOUS TREE
 - CONIFEROUS TREE
 - BUSH
- ⊙ = SANITARY MANHOLE
 - ⊕ = DRAINAGE MANHOLE
 - ⊖ = ELECTRIC MANHOLE
 - ⊗ = TELEPHONE MANHOLE
 - ⊠ = CATCHBASIN
 - ⊡ = SANITARY CLEANOUT
 - ⊣ = FIRE HYDRANT
 - ⊤ = VALVE
 - ⊥ = UTILITY POLE
 - ⊦ = LIGHT POLE
 - ⊧ = GUY POLE
 - ⊨ = GUY WIRE
 - ⊩ = UTILITY PEDESTAL
 - ⊪ = TRANSFORMER
 - ⊫ = HANDHOLE
 - ⊬ = ELECTRIC METER
 - ⊭ = GAS METER
 - ⊮ = WATER METER
 - ⊯ = SOIL BORING
 - ⊰ = SIGN
 - ⊱ = POST
 - ⊲ = AIR CONDITIONING UNIT

- LEGEND**
- PROPOSED WATER MAIN
 - PROPOSED SANITARY SEWER
 - PROPOSED STORM SEWER
 - ⊙ PROPOSED HYDRANT
 - ⊕ PROPOSED GATE VALVE
 - ⊖ PROPOSED SAN. M.H.
 - ⊗ PROPOSED STORM M.H.
 - ⊠ PROPOSED C.B.
 - ⊡ PROPOSED G.C.B.
 - ⊣ PROPOSED GRADES
 - ⊤ PROPOSED FIRST FLOOR ELEV.
 - ⊥ PROPOSED TOP OF CURB ELEV.
 - ⊦ PROPOSED TOP OF GROUND ELEV.
 - ⊧ PROPOSED TOP OF PAVT ELEV.
 - ⊨ PROPOSED TOP OF WALK ELEV.
 - ⊩ DENOTES S.E.S.C. KEYING SYSTEM

PLANT LIST

QUANT.	COMMON NAME	BOTANICAL NAME	SIZE	ROOT
DECIDUOUS				
2	TG	GREENSPIRE LITTLELEAF LINDEN	TILIA TOMENTOSA 'GREENSPIRE'	2.5" CAL. B & B
3	PC	ARISTOCRAT PEAR	PYRUS CALLERYANA 'ARISTOCRAT'	2.5" CAL. B & B
3	AF	AUTUMN BLAZE MAPLE	ACER X FREEMANII 'AUTUMN BLAZE'	2.5" CAL. B & B
EVERGREENS				
4	TO	EMERALD GREEN ARBORVITAE	THUJA OCCIDENTALIS 'EMERALD'	5-8' HT. B & B

LEGAL DESCRIPTIONS

PER. WARRANTY DEED L. 465, P. 749, GRATIOT COUNTY RECORDS:

THE FOLLOWING DESCRIBED PREMISES SITUATED IN THE TOWNSHIP OF SEVILLE, COUNTY OF GRATIOT, AND STATE OF MICHIGAN: SOUTH 90 ACRES OF THE SE 1/4 TO SECTION 1, T12N, R4W, MICHIGAN. EXCEPT RIGHT OF WAY OVER AND ACROSS SAID PREMISES GRANTED TO THE CONSUMERS POWER COMPANY, AS SHOWN BY LIBER 235 OF DEEDS, PAGE 20 AND ANY INSTRUMENTS AFFECTING THE SAME.

MORE PARTICULARLY DESCRIBED AS SURVEYED:

PART OF THE SE 1/4 OF SECTION 1, T12N-R4W, SEVILLE TOWNSHIP, GRATIOT COUNTY, MICHIGAN, DESCRIBED AS COMMENCING AT THE SE CORNER OF SAID SECTION; THENCE S89°04'14"W 2626.68 FEET ALONG THE SOUTH SECTION LINE TO THE S 1/4 CORNER OF SAID SECTION; THENCE N00°25'03"W 1491.50 FEET ALONG THE N-S 1/4 LINE; THENCE N88°59'51"E 2630.55 FEET TO A POINT ON THE EAST SECTION LINE OF SAID SECTION; THENCE S00°16'15"E 1491.54 FEET ALONG SAID EAST LINE TO THE POINT OF BEGINNING. THIS PARCEL CONTAINS 90.22 ACRES, MORE OR LESS, AND IS SUBJECT TO APPLICABLE EASEMENTS AND SERVITUDES OF USE OR RECORD, IF ANY. THIS DESCRIPTION REFLECTS THE PARCEL CONFIGURATION AS SHOWN ON THE CERTIFICATE OF SURVEY AS RECORDED IN LIBER 845, PAGE 830, GRATIOT COUNTY RECORDS, BY WILLIAM G. TINGLEY, P.S., MICHIGAN LICENSE #30104, DATED DECEMBER 21, 2007, JOB #07716-001.

STORM CB (#1074)
RIM ELEV.= 806.99'
I.E. 6", PVC, NE= 804.69'



TAX ID# 13-001-010-00

KEBS, INC. KYES ENGINEERING
BRYAN LAND SURVEYS
2116 HASLETT ROAD, HASLETT, MI 48840
PH. 517-339-1014 FAX. 517-339-8047
Marshall Office
Ph. 269-781-9800

FOREST HILL NATURE CENTER
LANDSCAPE PLAN - PH. 2

SCALE: 1" = 40' DESIGNER: APPROVED BY:
CAP SHEET SHEET 9 OF 10
DATE: 10-24-25 PROJECT MGR. GAP
AUTHORIZED BY: ROGER DONALDSON JOB #: E-104659

REVISIONS
10-24-25 PRELIMINARY SITE PLAN
1-28-26 SITE PLAN SUBMITTAL
4-24-26 FOR BIDDING

GREGORY A. PETRU
ENGINEER
NO. 50958
LICENSED PROFESSIONAL ENGINEER

(E8) PERMANENT SEEDING SPECIFICATIONS

When

- To finalize stabilization of temporary seeding areas or when an area needs permanent stabilization following completion of construction. Also used when vegetative establishment can correct existing soil erosion or sedimentation problem.
- Within 5 days of final grade.

Why

- To stabilize soil and prevent or reduce soil erosion/sedimentation problems from developing.

Where

- Used on construction and earth change sites which require permanent vegetative stabilization.

How

- Review SECC plan and construction phasing to identify areas in need of permanent vegetative stabilization.
- Select perennial grass and ground cover for permanent cover.
- Seed mixes vary. However, they should contain native species.
- Seed mixes should be selected through consultation with a certified seed provider and with consideration of soil type, light, moisture, use applications, and native species content.
- Soil tests should be performed to determine the nutrient and pH levels in the soil. The pH may need to be adjusted to between 6.5 and 7.0.
- Prepare a 3-5" deep seedbed, with the top 3-4" consisting of topsoil.
- Slopes steeper than 1:3 should be roughened.
- Apply seed as soon as possible after seedbed preparation. Seed may be broadcast by hand, hydroseeding, or by using mechanical drills.
- Mulch immediately after seeding.
- Dormant seed mixes are for use after the growing season, using seed which lies dormant in the winter and begins growing as soon as site conditions become favorable.



(E8) PERMANENT SEEDING SPECIFICATIONS

How (cont.)

- Protect seeded areas from pedestrian or vehicular traffic.
- Divert concentrated flows away from the seeded area until vegetation is established.

Maintenance

- Inspect weekly and within 24 hours following each rain event in the first few months following installation to be sure seed has germinated and permanent vegetative cover is being established.
- Add supplemental seed as necessary.

Limitations

- Seeds need adequate time to establish.
- May not be appropriate in areas with frequent traffic.
- Seeded areas may require irrigation during dry periods.
- Seeding success is site specific, consider mulching or sodding when necessary.

PERMANENT SEEDING SPECIFICATION
SEED ALL DISTURBED AREAS WITH THE FOLLOWING SEED MIXTURE OR APPROVED EQUIVALENT.
MICHIGAN GREEN - 15% BLUEGRASS, 40% FESCUE, 45% RYEGRASS
APPLY AT A RATE OF 5 LBS./1000 SF.
-APPLY SILT STOP OR APPROVED TACKIFIER TO SEED MIX.



(E8) PERMANENT SEEDING

Planting Zones	Lower Peninsula (South of T20N)		Upper Peninsula	
	Zone 1	Zone 2	Zone 3	Zone 4
Seeding Window	4/15 - 10/10	5/1 - 10/1	5/1 - 9/20	
Seeding Window	11/15 - Freeze	11/01 - Freeze	11/01 - Freeze	
Dormant Seeding*				
Seeding Dates (with irrigation or Mulch)	4/1 - 8/1	5/1 - 9/20	5/1 - 9/10	
Seeding Dates (w/o irrigation or Mulch)	4/1 - 5/20 or 8/10 - 10/1	5/1 - 6/10 or 8/1 - 9/20	5/1 - 6/15 or 8/1 - 9/20	
Dormant Seeding Dates*	11/1 - Freeze	10/25 - Freeze	10/25 - Freeze	

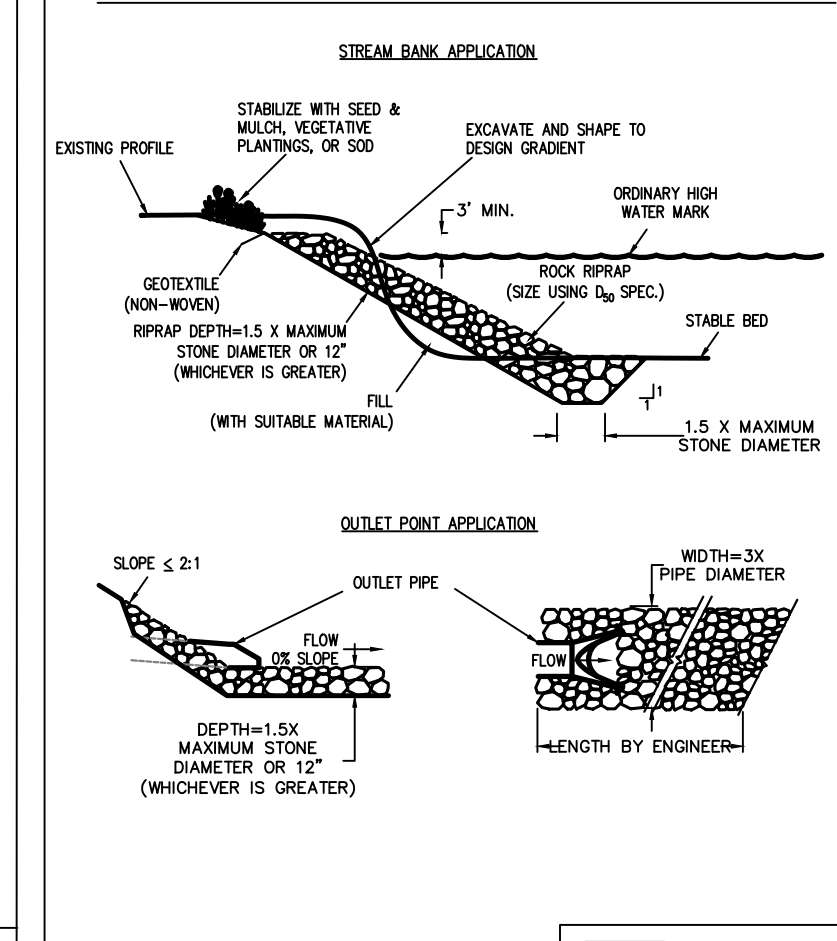
Source: Adapted from MDOT Interim 2003 Standard Specifications for Construction

* Dormant seeding is for use in the late fall after the soil temperature remains consistently below 50°F; prior to the ground freezing. This practice is appropriate if construction on a site is completed in the fall but the seed was not planted prior to recommended seeding dates. No seed germination will take place until spring. A cool season annual grass may be added in an attempt to have some fall growth.

- Mulch must be used with dormant seed.
- Do not seed when the ground is frozen or snow covered.
- Do not use a dormant seed mix on grassed walkways.



(E12) RIPRAP



(E12) RIPRAP SPECIFICATIONS

When

- When concentrated water flows have the potential to create scour, down-cutting, or lateral cutting.

Why

- To prevent loss of land or damage to utilities or structures. In aquatic applications, riprap is used to control channel meander and maintain capacity, protect against wave attack, and reduce sediment load.

Where

- In natural or constructed channels with areas susceptible to erosion from the action of water, ice, or debris, or to damage by livestock or vehicular traffic.
- In shoreline areas where the erosion problem may be solved through simple structural measures.
- On slopes with profiles measuring 1:1.5 or less.

How

- Review subject site to identify areas subject to concentrated flows or wave/current attack.
- The appropriateness and extent of riprap placement is site specific and should be determined in the field.
- The area under review for riprap placement must be shaped and contoured appropriately by grading prior to material placement.
- Non-woven geotextile fabric should be installed prior to riprap placement, with upper end and toe end of fabric buried or anchored to prevent movement.
- Riprap placement should be started at a stabilized location and ended at a stabilized or contoured point.
- Material selected for riprap should be hard, angular, and resistant to weathering. Appropriate material size depends on expected water energy and intended function of the material.



(E12) RIPRAP SPECIFICATIONS

How (cont.)

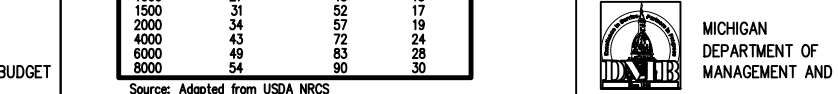
- Riprap mixture should be an even mixture of stone sizes based on the average, or D_{50} . This means 50% of the stone, by size, will be larger than the diameter specified, and 50% will be smaller than the size specified. The diameter of the largest stone should not be more than 1.5 times the D_{50} stone size.
- See table on the following page for typical riprap stone sizes.
- Rock shall be placed so that larger rocks are uniformly distributed and in contact with one another. Smaller rocks should fill the voids.
- When in contact with moving water, riprap will fit into a stable bank of the downstream end and will be keyed into the bank at the upstream end. Riprap should extend 3 ft. above the ordinary high water mark or to the top of the bank on short slopes. Extend riprap a minimum 10 ft. beyond active erosion area.

Maintenance

- All installations should be inspected immediately after the first rainfall to confirm the stability of the placed material. Follow-up inspections should occur regularly and provisions made for prompt repair if needed.

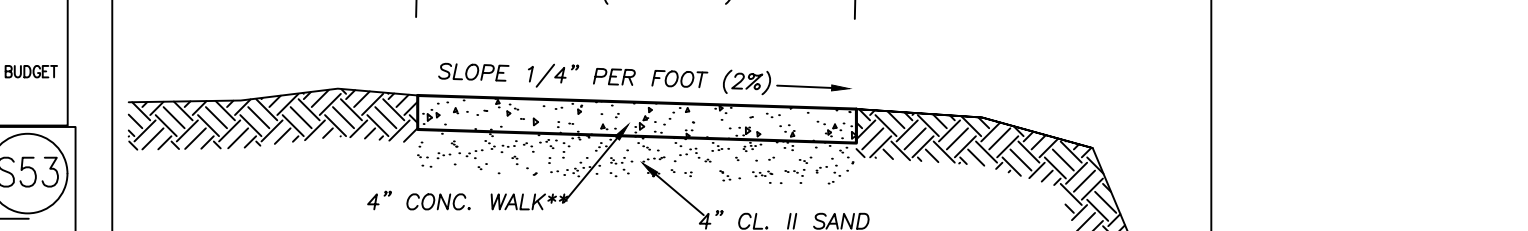
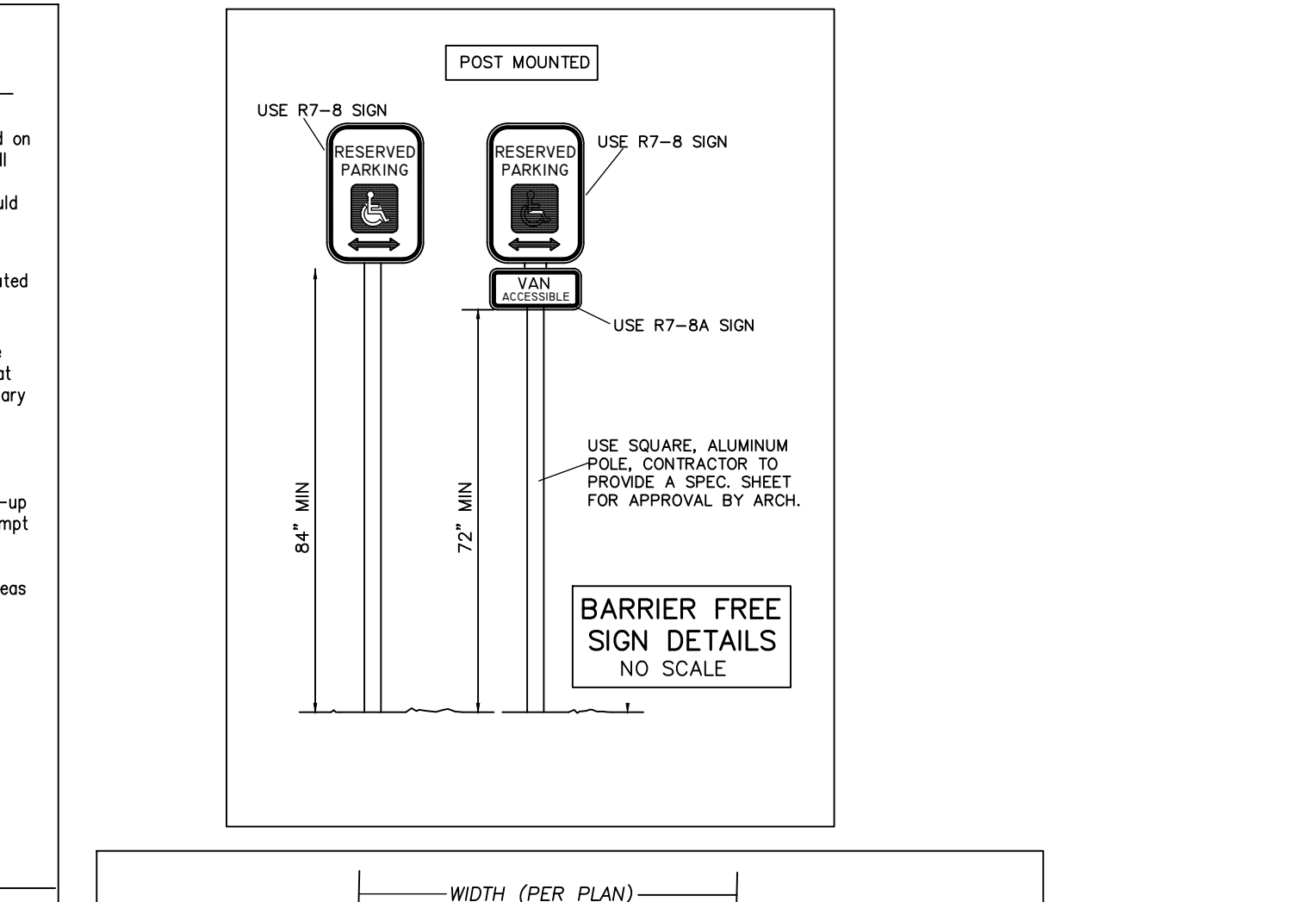
Limitations

- Area is cleared prior to the addition of riprap, therefore no areas are preserved with native vegetation.



Height (ft)	Average Diameter (in) D_{50}	Largest Stone Diameter (in)
0.5	1.5	2.25
1.0	2.25	3.375
1.5	3.375	5.0625
2.0	5.0625	7.59375
2.5	7.59375	11.390625
3.0	11.390625	17.0859375
3.5	17.0859375	25.6209375
4.0	25.6209375	38.43140625
4.5	38.43140625	57.647109375
5.0	57.647109375	86.46878125

Source: Adapted from USDA NRCS



(S51) SILT FENCE SPECIFICATIONS

When

- A temporary measure for preventing sediment movement.

Why

- Used to prevent sediment suspended in runoff from leaving an earth change area.

Where

- Use adjacent to critical areas, wetlands, base of slopes, and watercourses.

How

- Install parallel to a contour.
- The silt fence should be made of woven geotextile fabric.
- Silt fence should accommodate no more than 1/2 to 1 acre of drainage per 100' of fence and on slopes less than 1:2 (v:h).
- Dig a 6" trench along the area where the fence is to be installed.
- Place 6" of the silt fence bottom flap into the trench.
- Backfill the trench with soil and compact the soil on both sides. Create a small ridge on the up-slope side of the fence.
- Install wooden stakes 6 - 10' apart and drive into the ground a minimum of 12".
- Staple the geotextile fabric to the wooden stakes.
- Join sections of silt fence by wrapping ends together (See drawing).

Maintenance

- Inspect frequently and immediately after each storm event. Check several times during prolonged storm events. If necessary, repair immediately.
- If the sediment has reached 1/3 the height of the fence, the soil should be removed and disposed of in a stable upland site.
- The fence should be re-installed if water is seeping underneath it or if the fence has become ineffective.
- Silt fence should be removed once vegetation is established and up-slope area has stabilized.



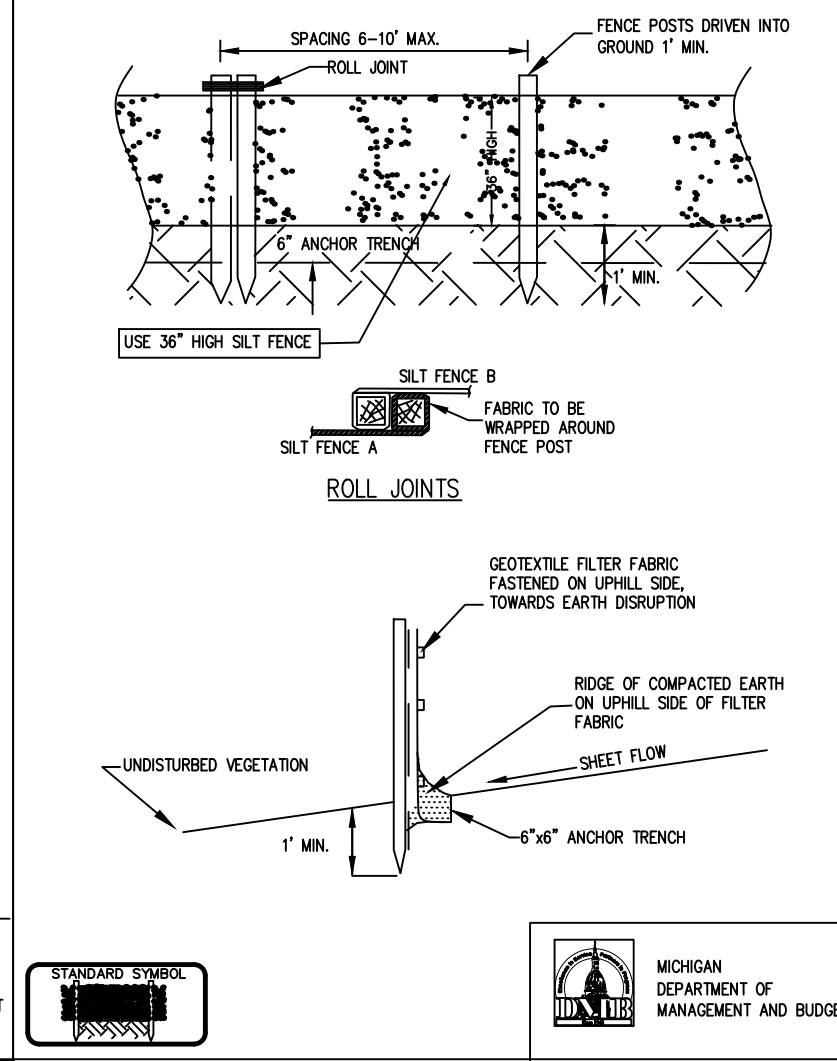
(S51) SILT FENCE SPECIFICATIONS

Limitations

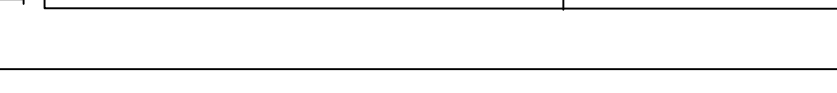
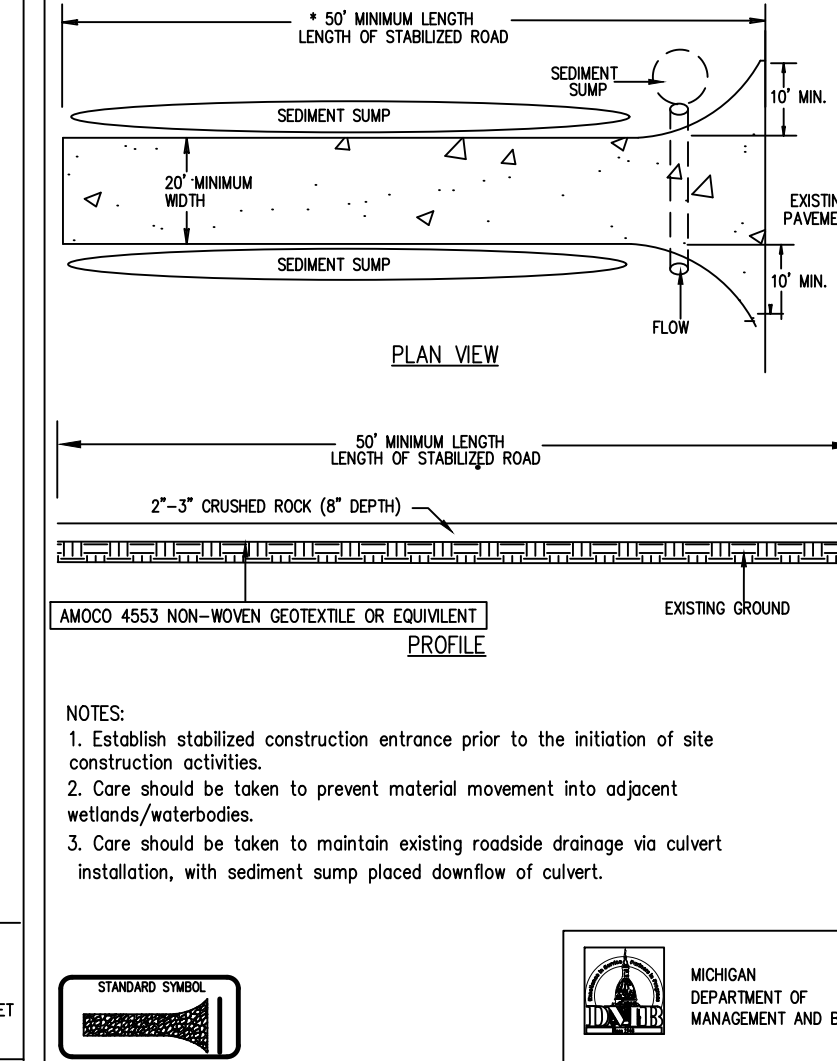
- Silt fence may cause temporary ponding and could fail if too much water flows through the area.
- Do not use in areas with concentrated flows.
- Chance of failure increases if fence is installed incorrectly or if sediment accumulation is not removed.



(S51) SILT FENCE



(S53) STABILIZED CONSTRUCTION ACCESS



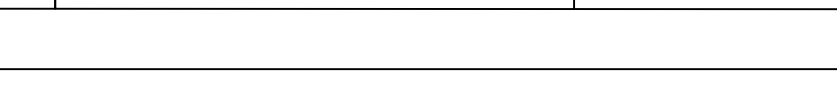
(S53) STABILIZED CONSTRUCTION ACCESS SPECIFICATIONS

Maintenance (cont.)

- Sediment deposited on public rights-of-way shall be removed immediately and returned to the construction site.
- If soils are such that washing of tires is required, it shall be done in a wash rack area, stabilized with stone, immediately prior to the construction access stabilized corridor.
- At the project completion, rock access road should be removed and disposed of unless utilized as subgrade for final road.

Limitations

- Effectiveness limited, sediment may be tracked onto roads requiring additional action.



(S53) STABILIZED CONSTRUCTION ACCESS SPECIFICATIONS

When

- Construction traffic is expected to leave a construction site.
- Stabilization of interior construction roads is desired.

Why

- To minimize tracking of sediment onto public roadways and to minimize disturbance of vegetation.

Where

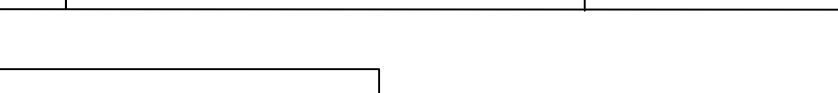
- Stabilized construction entrances shall be located at every point where construction traffic enters or leaves a construction site. Vehicles leaving the site must be routed over the rock ingress/egress corridor.

How

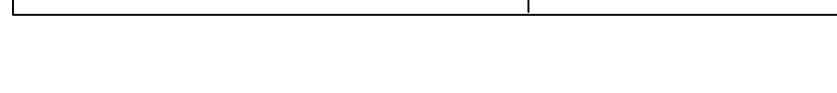
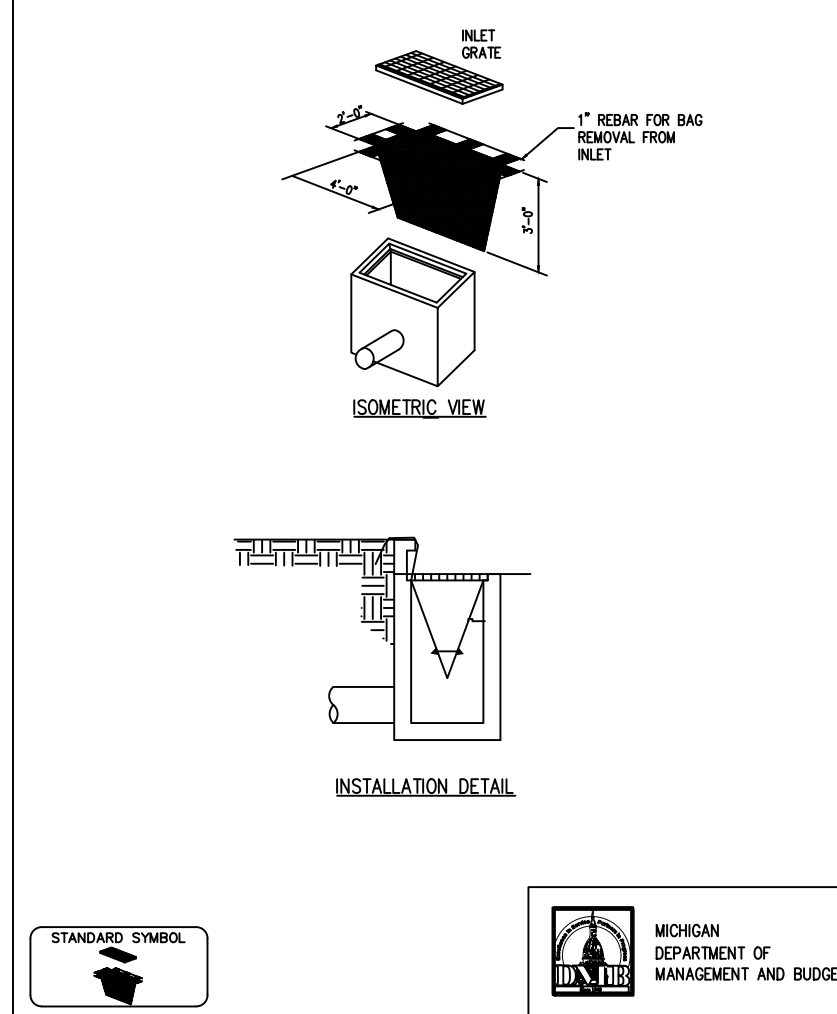
- Stabilized construction access road should be established at the onset of the construction activities and maintained in place for the duration of the construction project.
- Installation of this practice should be the responsibility of the site clearing or excavating contractor.
- Access location should be cleared of woody vegetation.
- Non-woven geotextile fabric shall be placed over the existing ground prior to placing stone.
- Access width should be a minimum of 50' (30' for single residence lot).
- Access width should be 12' minimum, flared at the existing road to provide a turning radius.
- Crushed aggregate (2" to 3"), or reclaimed or recycled concrete equivalent, shall be placed at least 8" deep over the length and width of the ingress/egress corridor.

Maintenance

- Periodic inspection and needed maintenance shall be provided after each rain event.
- Stabilized entrances shall be repaired and rock added as necessary.



(S58) INLET PROTECTION - FABRIC DROP



(S58) INLET PROTECTION - FABRIC DROP SPECIFICATIONS

When

- When sediment laden stormwater requires treatment before entering a stormwater drainage system.

Why

- To prevent sediment from entering stormwater systems.

Where

- Use in or at stormwater inlets, especially at construction sites or in streets.

How

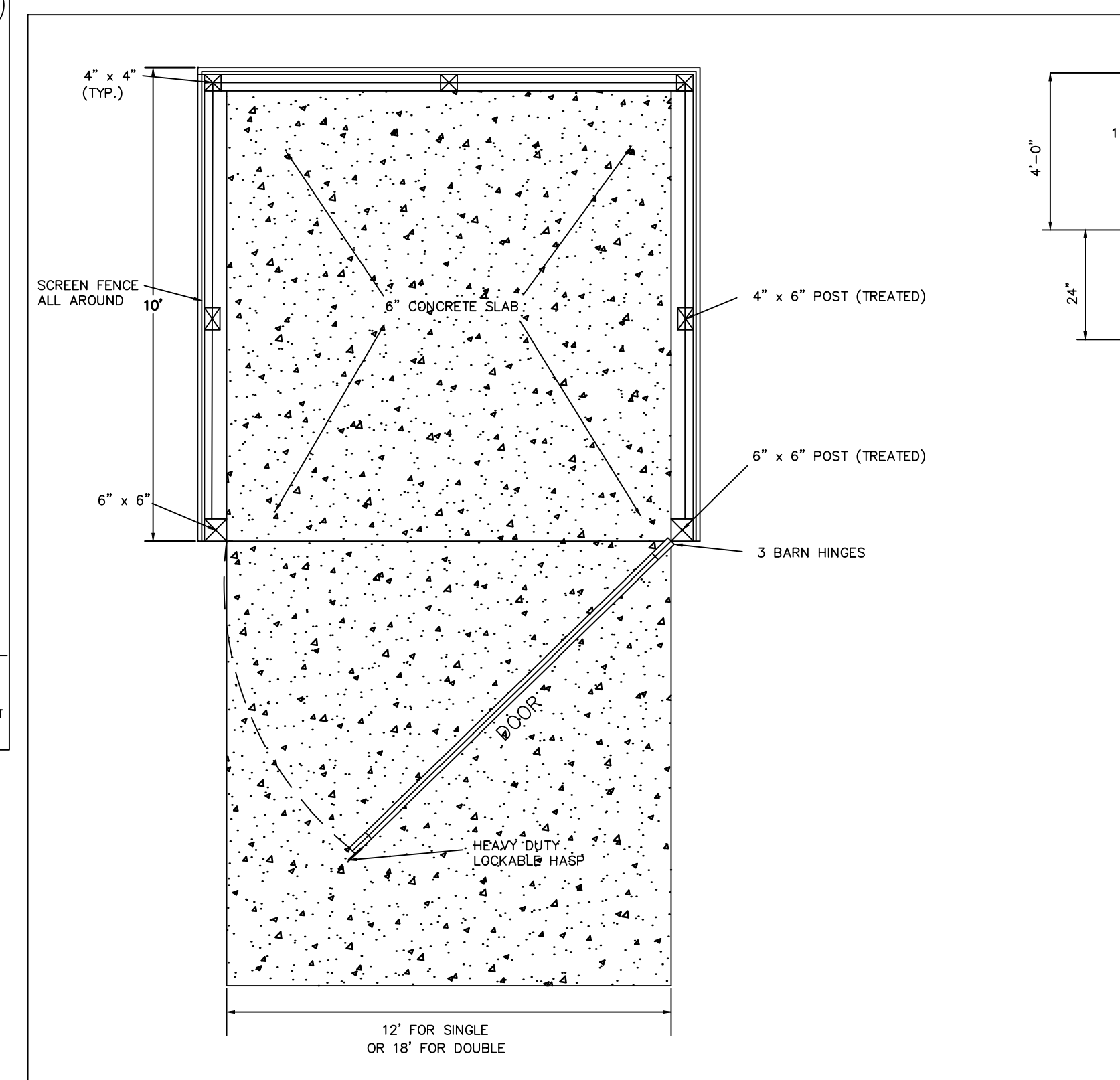
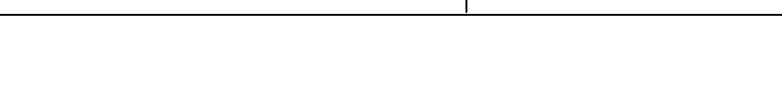
- A filter fabric bag is hung inside the inlet, beneath the grate.
- Replace grate, which will hold bag in place.
- Anchor filter bag with 1" rebar for removal from inlet.
- Flaps of bag that extend beyond the bag can be buried in soil in earth areas.

Maintenance

- Drop inlet filters should be inspected routinely and after each major rain event.
- Damaged filter bags should be replaced.
- Clean and/or replace filter bag when 1/2 full.
- Replace clogged fabric immediately.
- If needed, initiate repairs immediately upon inspection.
- Remove entire protective mechanism when upgradient areas are stabilized and streets have been swept.

Limitations

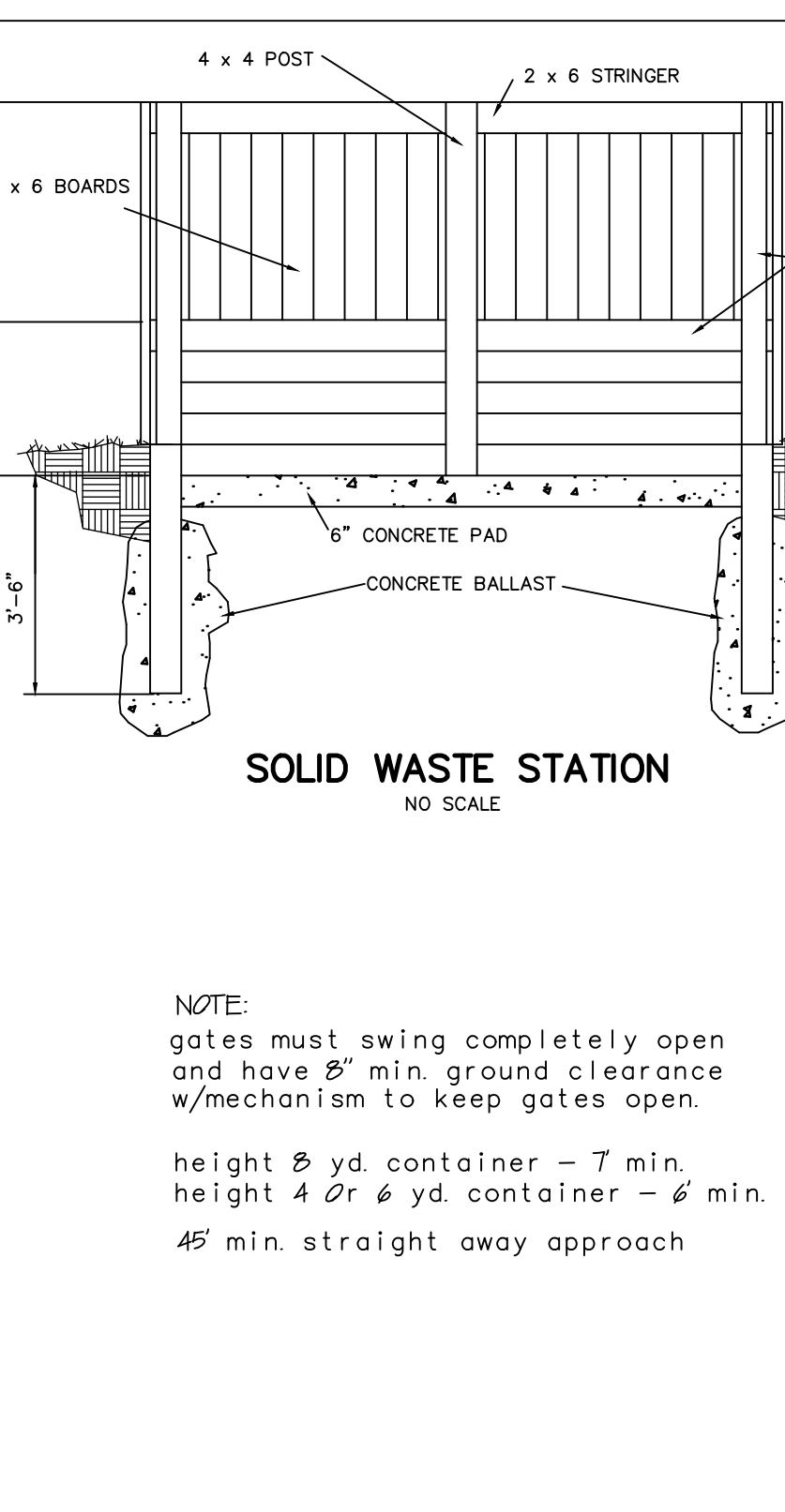
- Can only accommodate small flow quantities.
- Requires frequent maintenance.
- Ponding may occur around storm drains if filter is clogged.



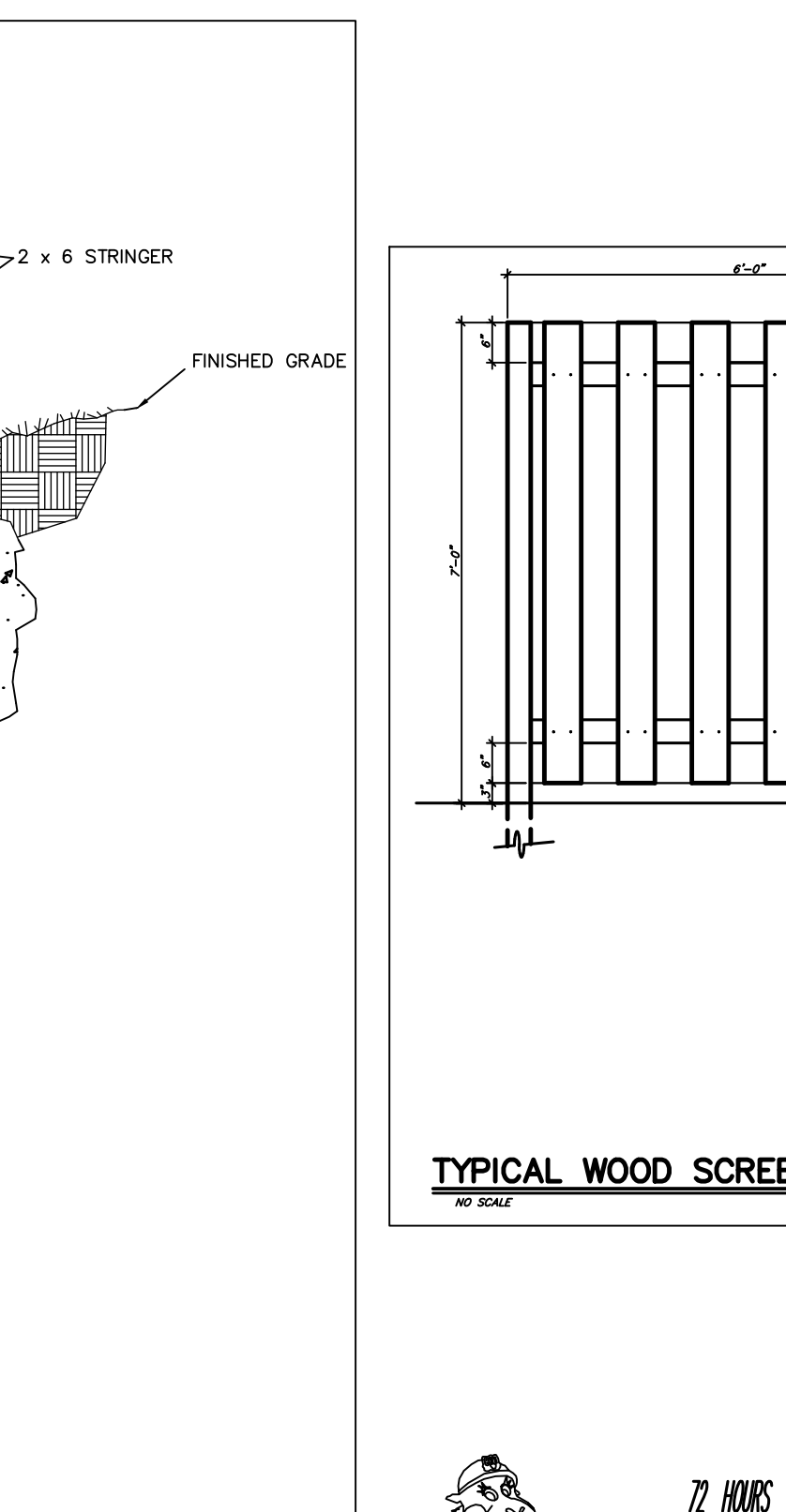
SOLID WASTE STATION
NO SCALE

NOTE:
gates must swing completely open and have 8" min. ground clearance w/mechanism to keep gates open.

height 8' yd. container - 7 min.
height 4' or 6' yd. container - 6 min.
45 min. straight away approach



TYPICAL WOOD SCREEN FENCE ELEVATION
NO SCALE



TYPICAL WOOD SCREEN FENCE SECTION
NO SCALE



TAX ID# 13-001-010-00

REVISIONS

10-24-25 PRELIMINARY SITE PLAN	
1-28-26 SITE PLAN SUBMITTAL	
4-24-26 FOR BIDDING	

KEBS, INC. KYES ENGINEERING
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FOREST HILL NATURE CENTER PHI
DETAILS

SCALE: 1" = 40'
DATE: 10-24-25
AUTHORIZED BY: ROGER DONALDSON

DESIGNER: GREGORY A. PETRU
PROJECT MGR.: GREGORY A. PETRU
APPROVED BY: GREGORY A. PETRU

SHEET 9 OF 9
JOB #: E-104659

72 HOURS (3 WORKING DAYS) BEFORE YOU DIG CALL MISS DIG 800-482-7177 (TOLL-FREE)

GREGORY A. PETRU
ENGINEER NO. 50958
LICENSED PROFESSIONAL ENGINEER