

THIS PROJECT WILL BE PERFORMED UNDER TWO SEPARATE CONTRACTS REFERRED TO AS THE "AMERICAN HOUSE PATHWAY - SHEET PILE AND BOARDWALK CONTRACT" AND THE "AMERICAN HOUSE PATHWAY - SITE CONTRACT". THE SHEET PILE AND BOARDWALK CONTRACT WILL BE PERFORMED FIRST DURING THE WINTER MONTHS OF 2025 / 2026. THE SITE CONCRETE CONTRACT WILL BEGIN IN THE SPRING OF 2026.

AMERICAN HOUSE PATHWAY - SHEET PILE AND BOARDWALK CONTRACT SCOPE OF WORK:

- INSTALL SHEET PILE RETAINING WALL
- INSTALL BOARDWALK AND HELICAL PILES
- INSTALL CONCRETE ABUTMENTS FOR THE BOARDWALK
- BACKFILLING/GRADING AROUND THE ABUTMENTS

AMERICAN HOUSE PATHWAY - SITE CONCRETE CONTRACT SCOPE OF WORK

- INSTALL SESC MEASURES
- PERFORM PAVEMENT REMOVAL
- GRADE 8" WIDE CONCRETE PATHWAY
- CONVERTING INLET TO MANHOLE
- POUR CONCRETE
- INSTALL FENCE
- INSTALL BENCH
- INSTALL WHEELSTOPS
- CONVERT GRATE INLET TO MANHOLE COVER
- PLANT TREES
- PAVEMENT REPLACEMENT
- PERFORM SITE RESTORATION

UTILITY COMPANY UTILITIES

AT&T
337 N. ABBOTT, RM. 201
EAST LANSING, MI 48823
517.337.3660

TELEPHONE

CONSUMERS ENERGY
530 W. WILLOW ST.
P.O. BOX 30162
LANSING, MI 48909
517.373.6100

GAS
ELECTRIC

COMCAST
1070 TROWBRIDGE ROAD
EAST LANSING, MI 48823
517.332.1012

CABLE TV

MERIDIAN TOWNSHIP
5151 MARSH RD.
OKEMOS, MI 48864
517.853.4440

WATER MAINS
SANITARY SEWER
PATHWAYS

INGHAM COUNTY DRAIN
COMMISSIONER
707 BUHL ST.
MASON, MI 48854
517.676.8395

DRAINS
STORM SEWER

INGHAM COUNTY ROAD DEPT
301 BUSH ST.
MASON, MI 48854
517.676.9722

PUBLIC ROADS AND
RIGHTS OF WAY

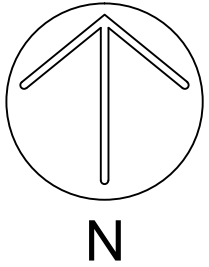
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21	LANDSCAPE PLAN

BENCHMARKS:

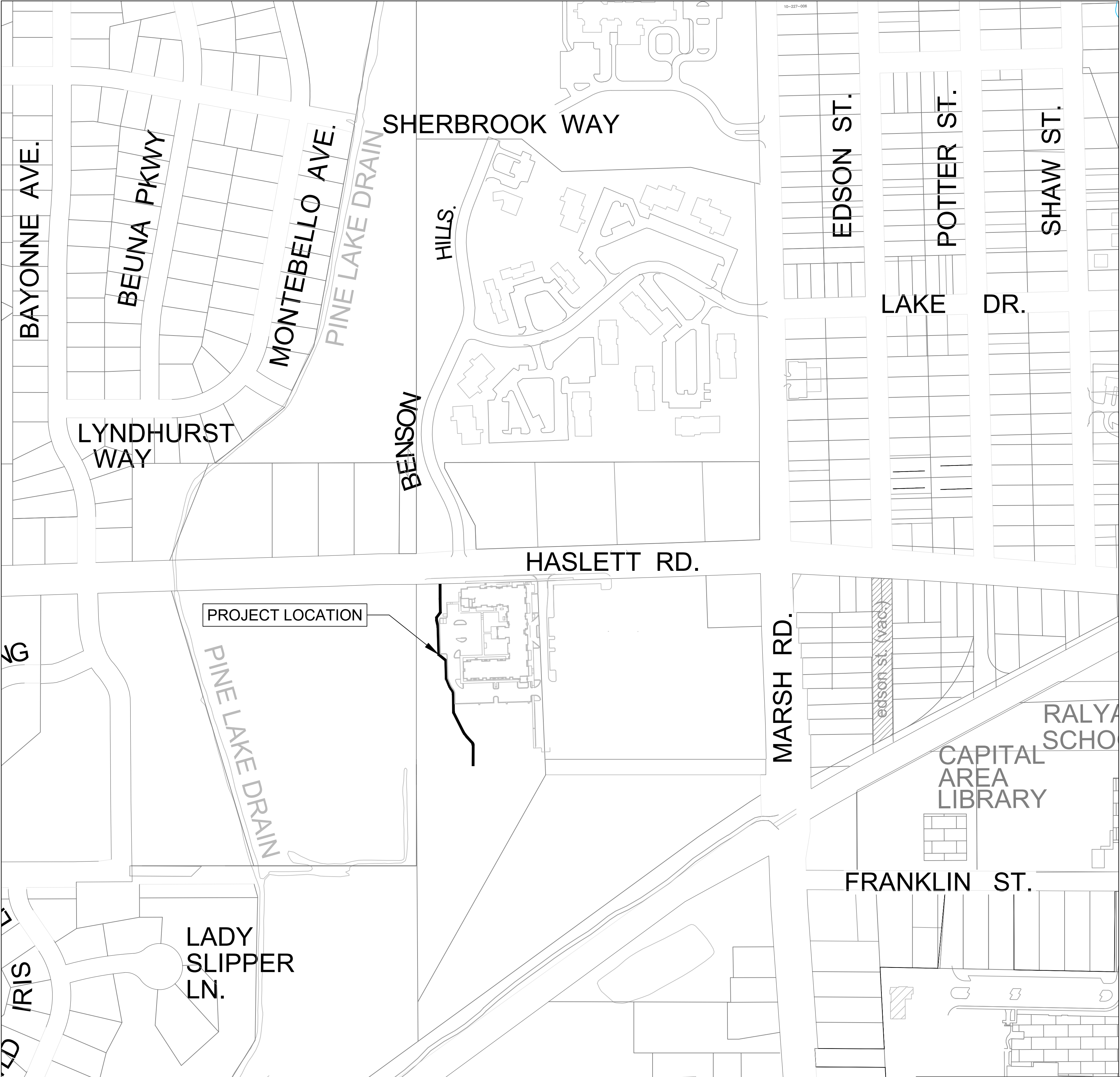
BENCHMARK #1 ELEV. = 862.07
CHISELED "X" IN NORTH SIDE OF CONCRETE
LIGHT POLE BASE, 170'± EAST AND 90'±
NORTH OF NORTHWEST CORNER OF #1655
HASLETT ROAD.

BENCHMARK #4 ELEV. = 863.05
SOUTHWEST FLANGE BOLT OF FIRE
HYDRANT, UNDER THE "A" IN "TRAVERSE
CITY", 18'± EAST AND 80'± NORTH OF
NORTHEAST CORNER OF #1655 HASLETT
ROAD.

AMERICAN HOUSE PATHWAY
1673 HASLETT ROAD
CONSTRUCTION PLANS
FOR
MERIDIAN TOWNSHIP
INGHAM COUNTY, MICHIGAN



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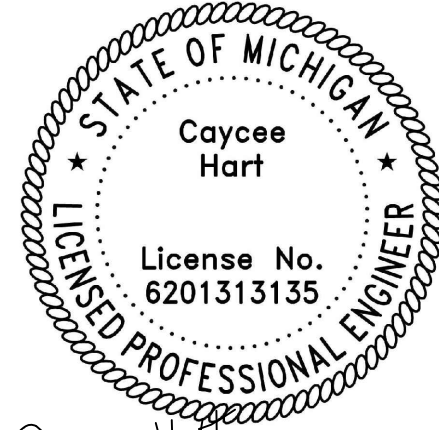
STANDARD CONSTRUCTION NOTES

- The Contractor shall notify the Charter Township of Meridian, Department of Public Works, Office of Engineering 517-853-4440 a minimum of 72 hours prior to the start of construction of public utilities or of construction within the public right-of-way.
- All construction shall conform to the current standards and specifications of the Charter Township of Meridian which are included as part of these plans in effect at the time of construction.
- After the completion of construction of public utilities or construction within public right-of-way, the contractor must request a final inspection. Any punchlist items resulting from the final inspection must be resolved prior to final release and acceptance.
- The existing utilities indicated on the plans are in accordance with available information. It shall be the contractor's obligation to verify the exact location of all existing utilities, which might affect this job.
- The contractor shall notify "MISS DIG" 1-800-482-7171 at least 72 hours prior to the start of construction.
- The contractor shall at all times be aware of inconvenience caused to the abutting property owners and the general public. Where the contractor does not remedy undue inconveniences, the Charter Township of Meridian, upon four hours notice, reserves the right to perform the work and deduct the cost therefore from the money due the contractor.
- A Registered Land Surveyor provided by the contractor at the contractor's expense shall replace all property irons and monuments disturbed or destroyed by the contractor's operations.
- Contractor shall provide Owner and Township Engineer a copy of written permission to use private property for storage of equipment and materials or for his construction operations.
- Trench backfill under existing or proposed roadways, driveways, and parking areas, shall be sand or gravel, placed in 12" layers (maximum) and consolidated to 95% of maximum density as measured by modified proctor unless otherwise noted.
- Trees and shrubs are to be protected during construction and bored where necessary.
- Existing fences shall be removed and restored to their original condition or better where in conflict with construction.
- Driveways, culverts, ditches, drain tile, tile fields, drainage structures, etc., that are disturbed by the contractor's operations shall be immediately restored.
- All established lawn areas disturbed by the contractor's operations shall be resodded with matching sod. All other areas shall be seeded and mulched. Seeding and mulching shall be done in accordance with the General Specifications.
- All ditch slopes shall have established vegetation and be protected from erosion.
- All utility poles in close proximity to construction shall be supported in a manner satisfactory to the utility owner.
- Onsite parking and sanitary facilities shall be provided for construction workers. The facilities shall be constructed and operated (with minimal impact to the surrounding area) to the satisfaction of the Township.

PATHWAY NOTES

- PATHWAYS AND SIDEWALKS SHALL BE FOUR (4) INCH THICK CONCRETE EXCEPT AT DRIVEWAYS WHERE THEY SHALL BE SIX (6) INCH (RESIDENTIAL) OR SEVEN (7) INCH (COMMERCIAL) THICK CONCRETE.
- THREE (3) INCHES OF COMPACTED SAND BASE SHALL BE PLACED UNDER ALL PATHWAYS AND SIDEWALKS.
- ALL BITUMINOUS APRONS SHALL BE TWO AND ONE-HALF (21/2) INCHES THICK, UNLESS OTHERWISE NOTED.
- PROPERTY IRONS SHALL BE MAINTAINED BY THE CONTRACTOR.
- ALL EXISTING CONCRETE AND BITUMINOUS TO BE REMOVED SHALL BE SAWCUT. ALL BITUMINOUS REMOVAL SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION.
- ALL AGGREGATE BASE MATERIAL SHALL BE FOUR (4) INCHES OF 22A.
- ALL TREE (LESS THAN 6") AND SHRUB REMOVAL SHALL BE CONSIDERED PART OF SUBGRADE PREPARATION.
- LOCATION OF NEW PLANT MATERIAL SHALL BE AS DIRECTED BY THE ENGINEER, AND SHALL BE INSTALLED IN ACCORDANCE WITH GUIDELINES ESTABLISHED BY THE A.N.L.A.
- ALL PLANT MATERIAL NOT MARKED FOR REMOVAL SHALL BE PROTECTED.
- BITUMINOUS DRIVES SHALL BE SAWCUT 18" ON EITHER SIDE OF PROPOSED PATHWAY.
- THE MAXIMUM LONGITUDINAL SLOPE IS 5% (UP TO AN ABSOLUTE MAXIMUM OF 81/3% AT THE DIRECTION OF THE ENGINEER) AND THE MAXIMUM CROSS SLOPE IS 2%.
- EXPANSION JOINTS SHALL BE PLACED AT APPROXIMATELY 100' INTERVALS AND SHALL BE 1/2" THICK. CONTRACTION JOINTS SHALL BE SAWCUT TO A DEPTH OF 1/4 OF THE DEPTH OF THE CONCRETE.
- ALL LUMBER TO BE PRESSURE TREATED (OSMOSE 33 OR EQUAL) TO 0.4 RETENTION.
- ALL ITEMS NOT COVERED UNDER A SPECIFIC PAY ITEM SHALL BE CONSIDERED INCIDENTAL.

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Meridian Charter Township
Ingham County, Michigan
PATHWAY

AMERICAN HOUSE PATHWAY
1673 HASLETT ROAD

SE 1/4 SECTION 10, T4N, R1W, MERIDIAN TOWNSHIP,
INGHAM COUNTY, MICHIGAN

DRAWN BY: CH

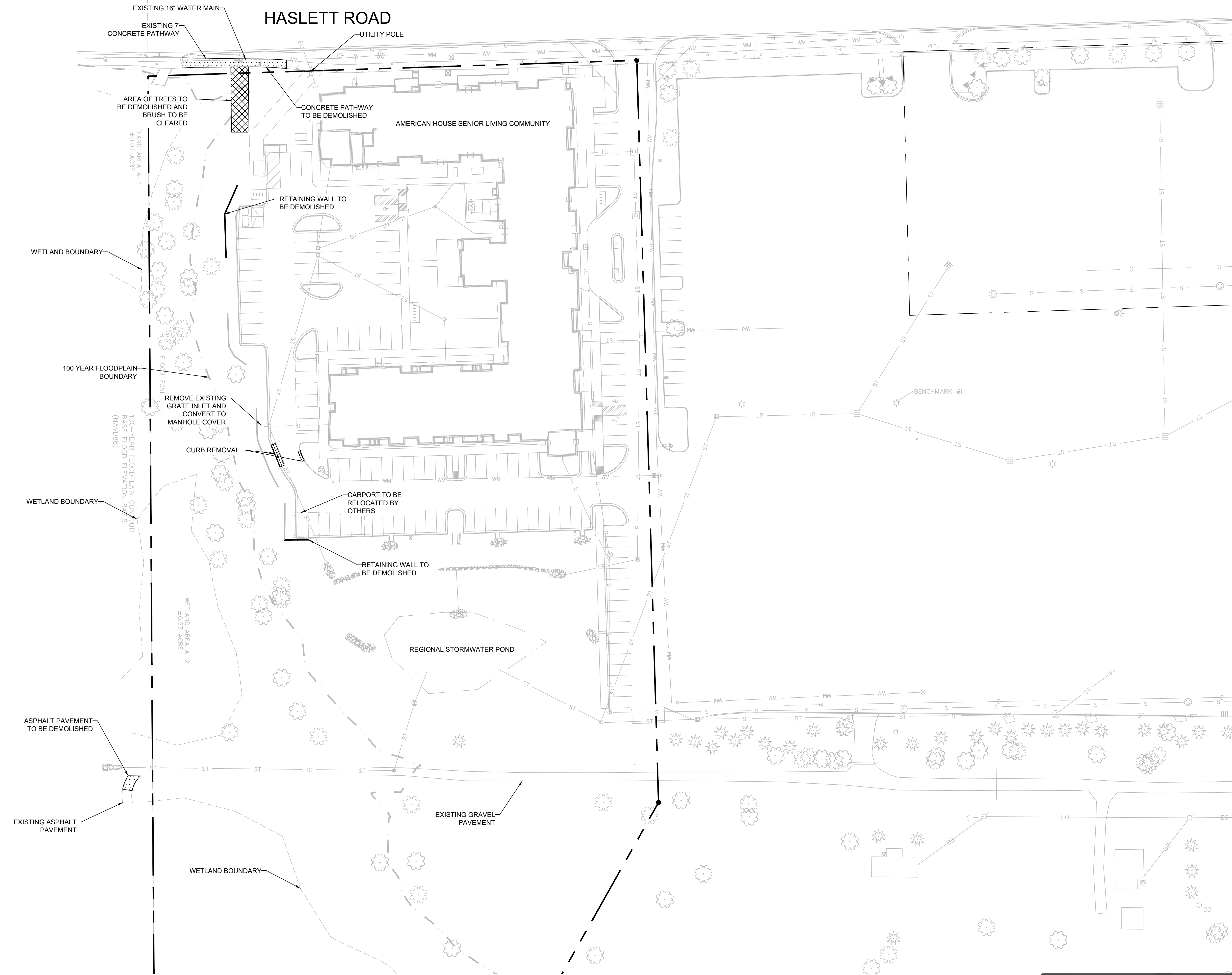
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REVISIONS:

DATE	BY:	COMMENTS:
10.03.25	CH	BID SET
10.17.25	CH	BID SET - SHEET PILE CONTRACT; ADD #1

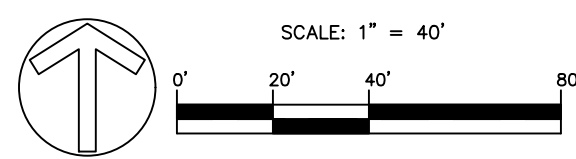
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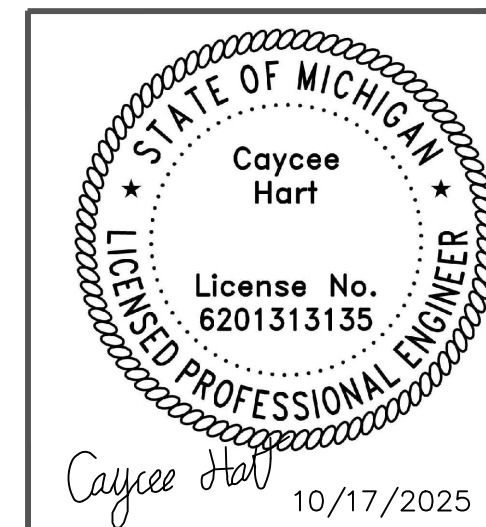
LEGEND

- PROPERTY LINE
- 100 YEAR FLOODPLAIN BOUNDARY
- WETLAND BOUNDARY
- EXISTING STORM PIPE
- EXISTING SANITARY PIPE
- EXISTING SANITARY MAIN
- PAVEMENT TO BE DEMOLISHED
- TREES TO BE DEMOLISHED



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WOLVERINE PIPE LINE COMPANY 219-844-9510



Meridian Charter Township
Ingham County, Michigan
PATHWAY

AMERICAN HOUSE PATHWAY
1673 HASLETT ROAD
SE 1/4 SECTION 10, T4N, R1W, MERIDIAN TOWNSHIP,
INGHAM COUNTY, MICHIGAN

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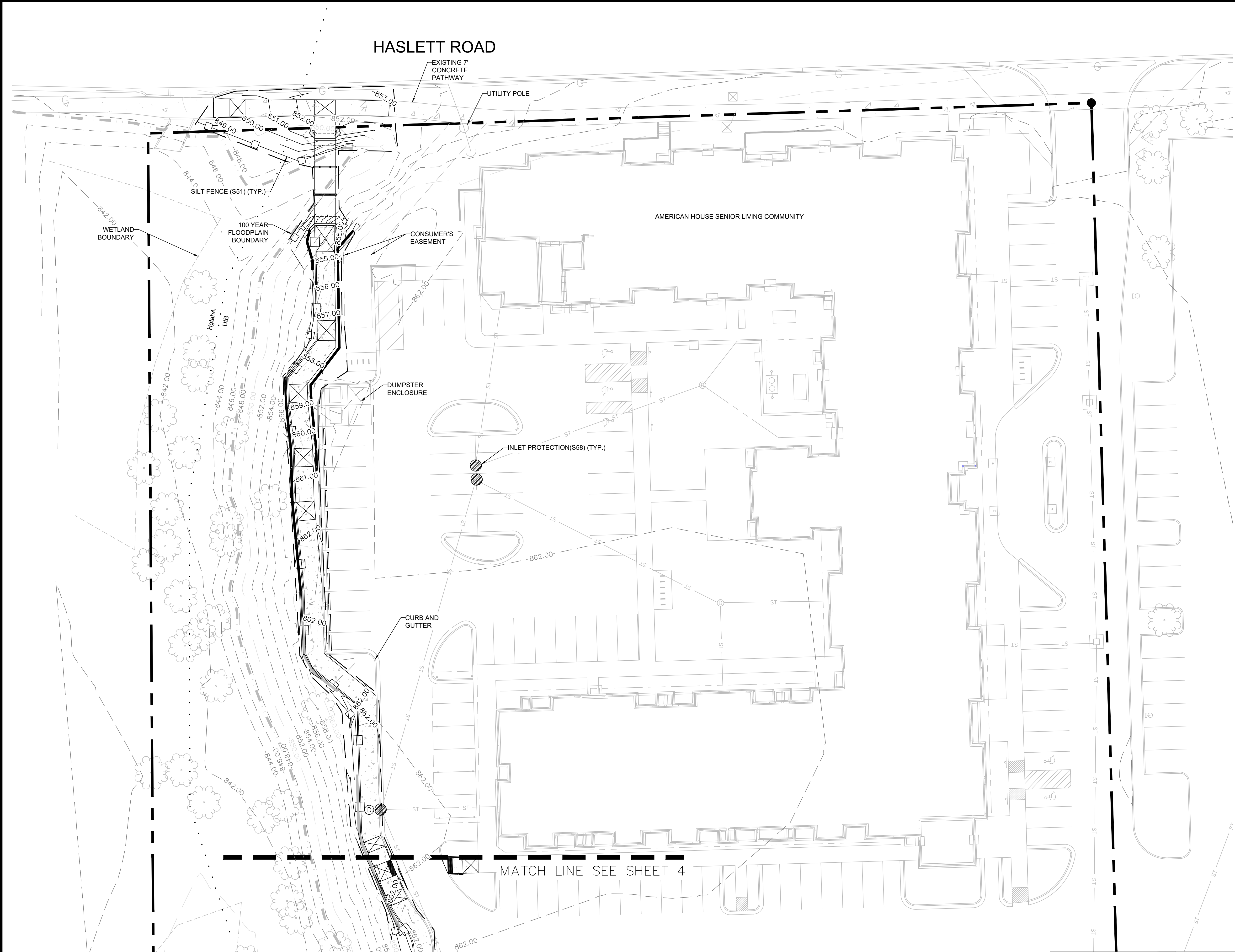
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SHEET:

2 - DEMOLITION PLAN

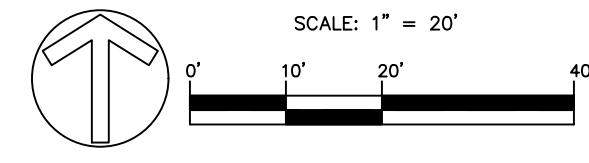
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LEGEND

- PROPERTY LINE
- 100 YEAR FLOODPLAIN BOUNDARY
- WETLAND BOUNDARY
- EXISTING CONTOUR
- PROPOSED CONTOUR
- LIMITS OF DISTURBANCE
- SOIL BOUNDARY
- SILT FENCE
- CONSTRUCTION ENTRANCE
- INLET PROTECTION

SOILS:
UtB - URBAN LAND - MARLETTE COMPLEX, 2 TO 12 PERCENT SLOPES
HgtahA - HOUGHTON MUCK, 0 TO 1 PERCENT SLOPES
UpA - URBAN LAND - CAPAC-COLWOOD COMPLEX, 0 TO 4 PERCENT SLOPES



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WOLVERINE PIPE LINE COMPANY 219-844-9510

Caycee Hart
10/17/2025

Meridian Charter Township
Ingham County, Michigan

PATHWAY

AMERICAN HOUSE PATHWAY
1673 HASLETT ROAD

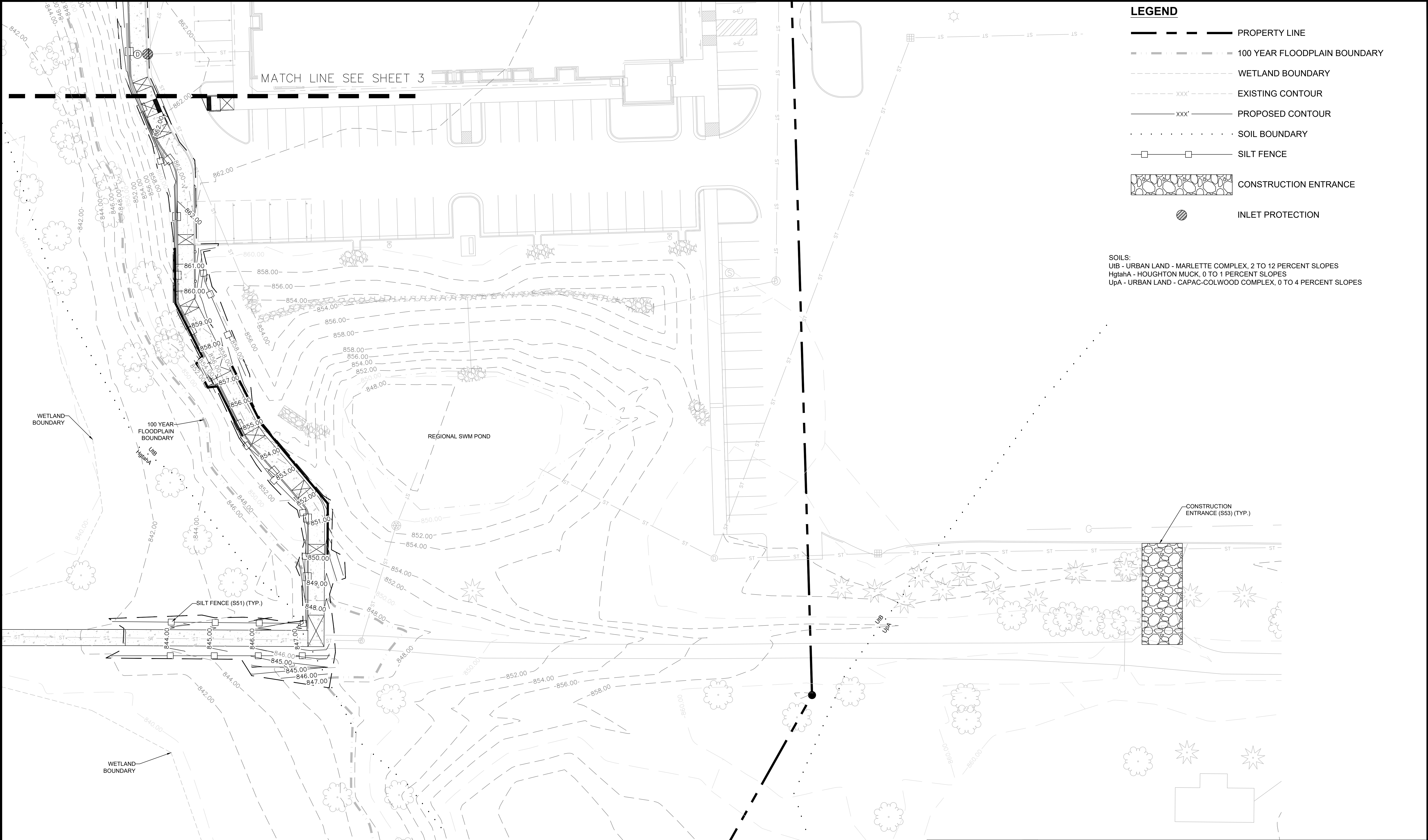
SE 1/4 SECTION 10, T4N, R1W, MERIDIAN TOWNSHIP,
INGHAM COUNTY, MICHIGAN

DRAWN BY: CH CHECKED BY: YI

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SHEET:		

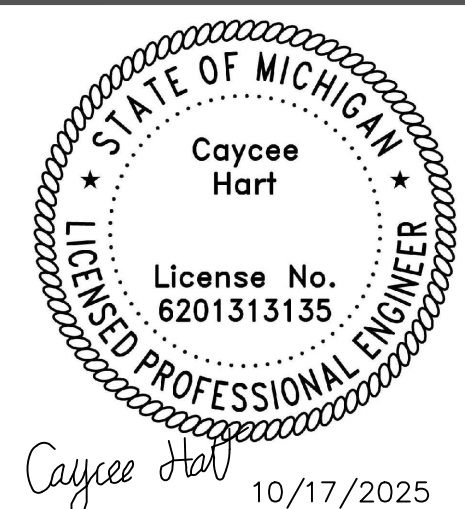
3 - SESC PLAN

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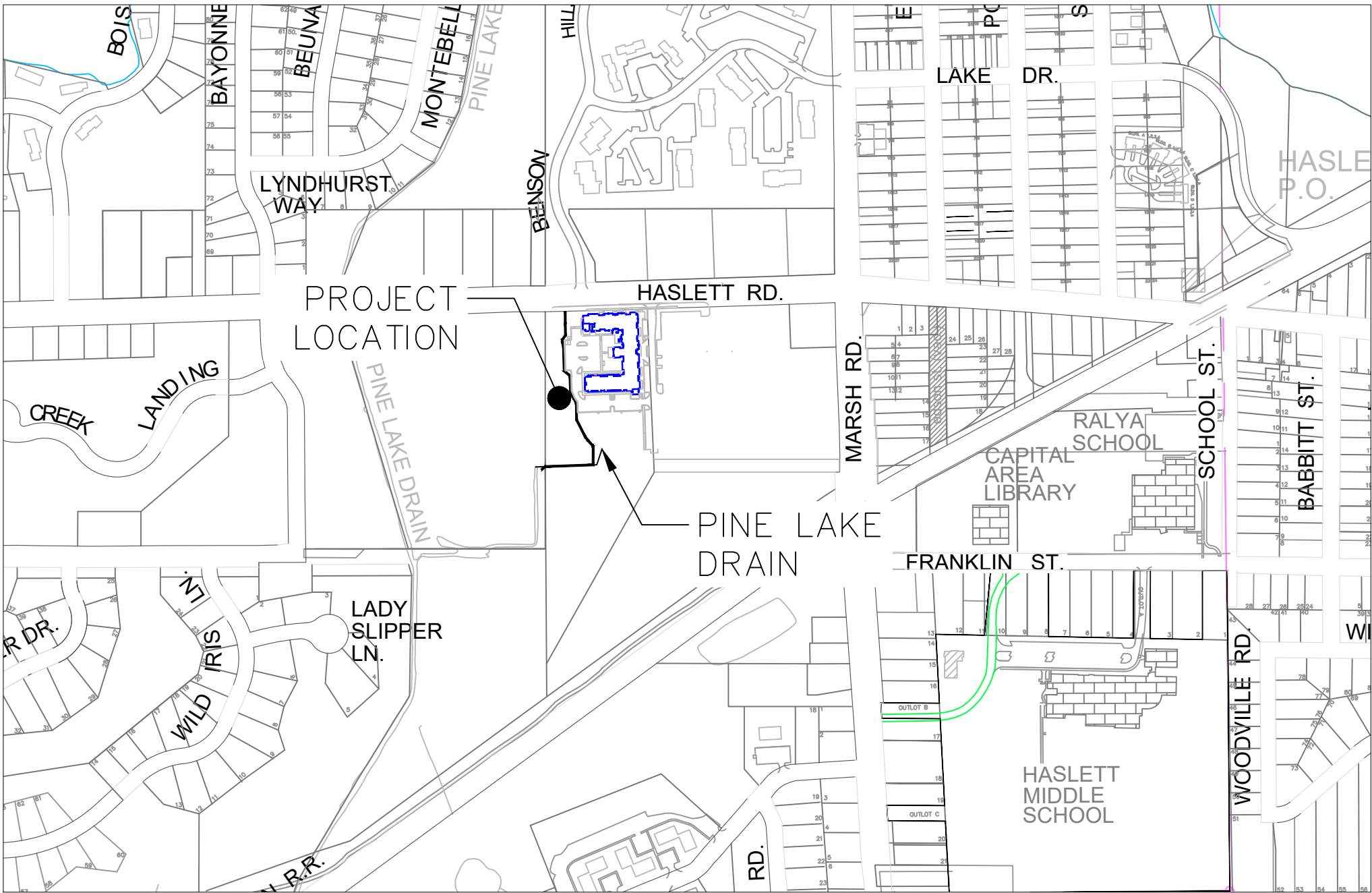


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WOLVERINE PIPE LINE COMPANY 219-844-9510



Meridian Charter Township Ingham County, Michigan PATHWAY		REVISIONS:	
AMERICAN HOUSE PATHWAY 1673 HASLETT ROAD SE 1/4 SECTION 10, T4N, R1W, MERIDIAN TOWNSHIP, INGHAM COUNTY, MICHIGAN		DATE	BY: COMMENTS:
		10.03.25	CH BID SET
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SHEET:		4 - SESC PLAN	



THE PATHWAY PROJECT IS LOCATED 0' FROM THE PINE LAKE DRAIN

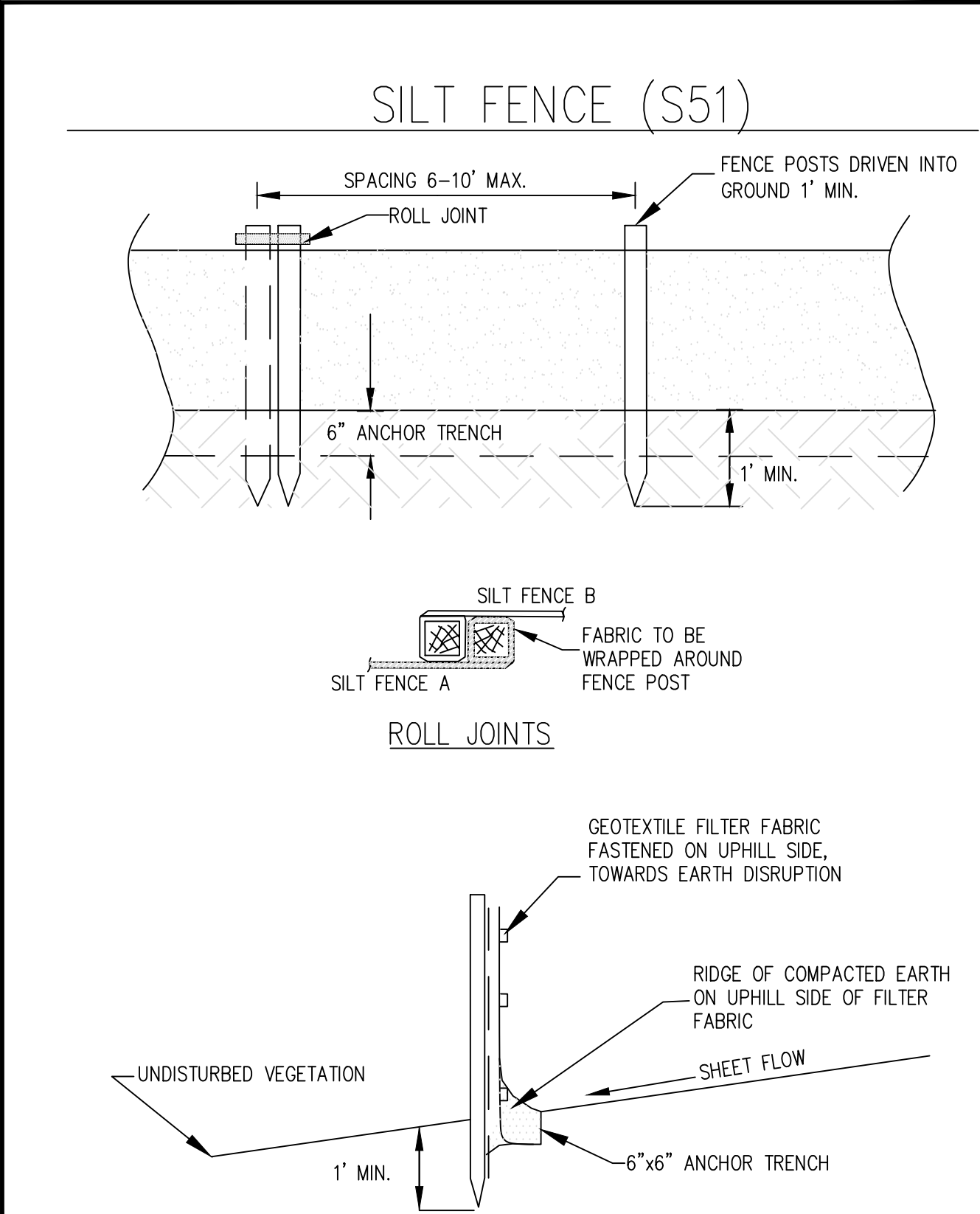
RECOMMENDED CONSTRUCTION SCHEDULING & SEQUENCING

	OCTOBER	NOVEMBER	DECEMBER	JANUARY '26	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
INSTALL SESC MEASURES												
INSTALL BOARDWALK												
INSTALL SHEET PILE RETAINING WALL												
GRADE THE SITE FOR THE PROPOSED PATHWAY												
CONSTRUCT THE PATHWAY AND FENCE												
SITE CLEANUP AND RESTORATION												
REMOVE SESC MEASURES ONCE THE SITE IS STABILIZED												

TAX ID: 10-401-007
LEGAL DESCRIPTION: A PARCEL OF LAND IN THE SE 1/4 OF SEC 10 T4N R1W
DESC AS: COM AT THE S 1/4 COR OF SD SEC 10 -N00D22'20"W ALNG THE
N-S 1/4 LN OF SD SEC 10 896.94 FT TO POB -N00D22'20"W CONT ALNG SD
N-S 1/4 LN 1359.73 FT TO S ROW LN OF HASLETT RD -N88D08'51"E ALNG SD
S LN 411.71 FT -S01D40'31"E 625.33 FT -S29D22'14"W 858.27 FT TO POB (9.60
A M/L)
(SPLIT/COMBINED ON 10/23/2020 FROM 33-02-02-10-401-003,
33-02-02-10-401-005, 33-02-02-10-401-006, 33-02-02-10-402-001)

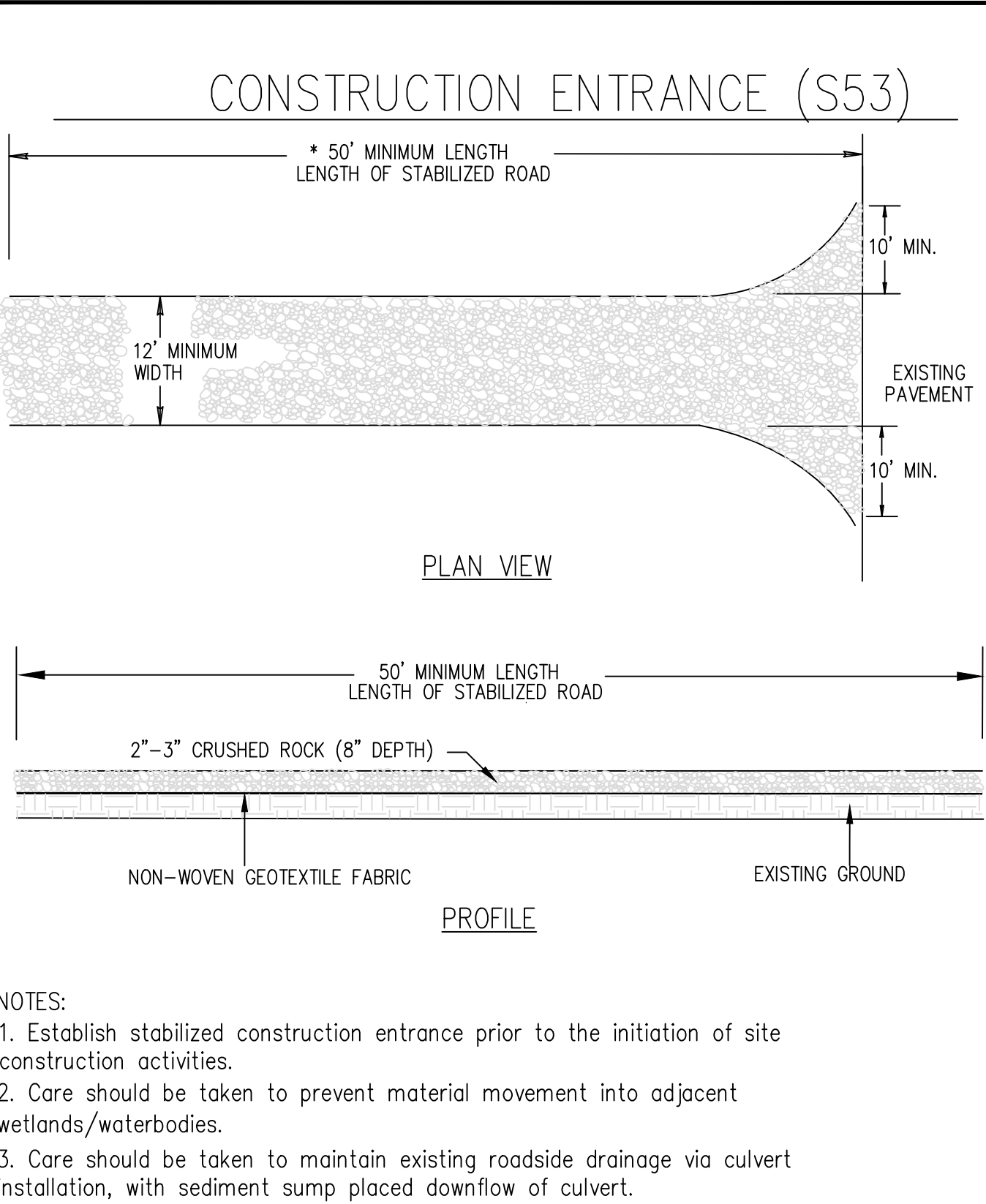
SOIL EROSION & SEDIMENTATION CONTROL NOTES

- All soil erosion and sediment control (SESC) work shall conform to the standards and specifications of the Ingham County Drain Commissioner's Office and Meridian Township.
- Daily inspections shall be made by the contractor for effectiveness of SESC measures. Any necessary repairs shall be performed without delay.
- Erosion of any sediment from work on the site shall be contained on-site and not allowed to collect on any off-site areas or in waterways. Waterways include both natural and man-made open ditches, streams, storm drains, lakes, ponds, and wetlands.
- The Contractor shall apply temporary SESC measures when required and as directed on these plans. The Contractor shall remove temporary measures as soon as permanent stabilization of slopes, ditches, and other changes have been established.
- Staging the work shall be done by the Contractor as directed in these plans and as required to ensure progressive stabilization of disturbed earth.
- Soil erosion control practice shall be established in the early stages of construction by the Contractor. Sedimentation control practices shall be applied as a perimeter defense against any transporting of soil off the site.
- The Contractor shall preserve natural vegetation as much as possible.
- Vegetative stabilization of all disturbed areas shall be established within 5 days of completion of the final grading.



SILT FENCE MAINTENANCE & INSPECTIONS

- IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THE SILT FENCE IS MAINTAINED AND FUNCTIONING.
- THE SILT FENCE SHOULD BE INSPECTED AT LEAST WEEKLY. SILT FENCE SHOULD BE INSPECTED BEFORE FORECASTED RAIN EVENTS AND AFTER EACH RAIN EVENT.
- FABRIC TEARS, POST FAILURES, VEHICLE DAMAGE, AND/OR UNDERMINING SHOULD BE REPAIRED IMMEDIATELY.
- SEDIMENT BUILD UP SHOULD BE REMOVED WHEN IT REACHES 1/3 TO 1/2 THE HEIGHT OF THE SILT FENCE ABOVE THE GROUND ELEVATION.
- REMOVE THE SILT FENCE ONCE THE SITE IS STABILIZED WITH PERMANENT SESC MEASURES.

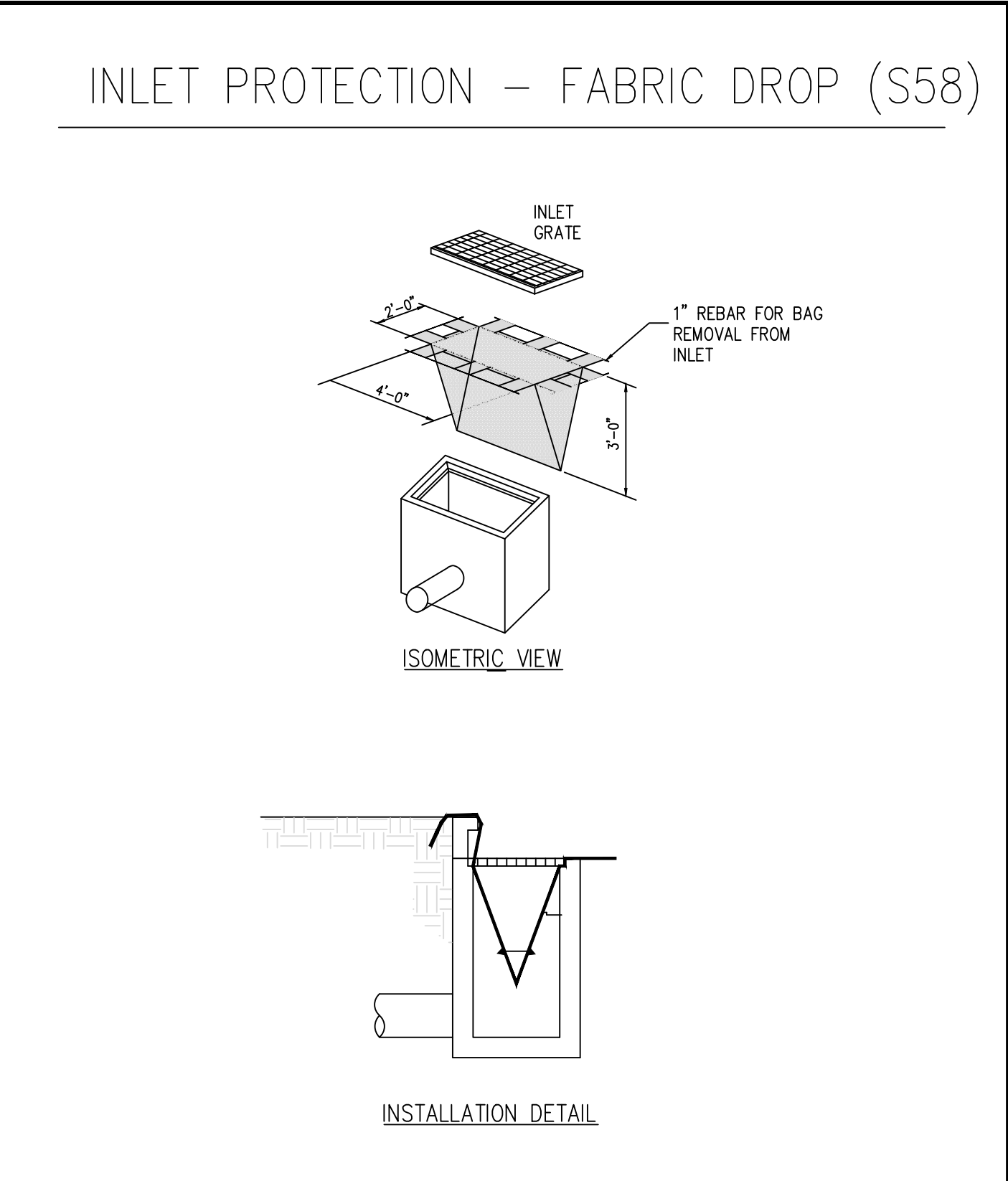


NOTES:

- Establish stabilized construction entrance prior to the initiation of site construction activities.
- Care should be taken to prevent material movement into adjacent wetlands/waterbodies.
- Care should be taken to maintain existing roadside drainage via culvert installation, with sediment sump placed downflow of culvert.

CONSTRUCTION ENTRANCE MAINTENANCE & INSPECTIONS

- IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THE CONSTRUCTION ENTRANCE IS MAINTAINED AND FUNCTIONING.
- THE CONSTRUCTION ENTRANCE SHOULD BE INSPECTED DAILY DURING USE. THE ADJACENT ROADWAYS SHOULD ALSO BE INSPECTED FOR SOIL TRAC-KOUT.
- CLEAN, REPLENISH (ADDING ADDITIONAL AGGREGATE LAYERS), OR REPLACE THE AGGREGATE SURFACE BEFORE SOIL BUILD UP CAUSES TRACK-OUT.
- INCREASE THE LENGTH OF THE CONSTRUCTION ENTRANCE OR INSTALL A TIRE WASH IF THE ENTRANCE IS NOT EFFECTIVELY REMOVING SEDIMENT FROM THE TIRES DURING EGRESS.
- IMMEDIATELY REMOVE ALL SEDIMENT DROPPED OR ERODED ONTO PUBLIC RIGHT-OF-WAYS BY SWEEPING OR SHOVELING. DO NOT WASH SEDIMENT INTO WATERWAYS OR STORM SEWERS.
- IMMEDIATELY REMOVE ANY AGGREGATE THAT HAS LOOSENED FROM THE PAD AND ENDED UP ON THE ROADWAY.
- REMOVE THE CONSTRUCTION ENTRANCE ONCE THE SITE IS STABILIZED WITH PERMANENT SESC MEASURES.

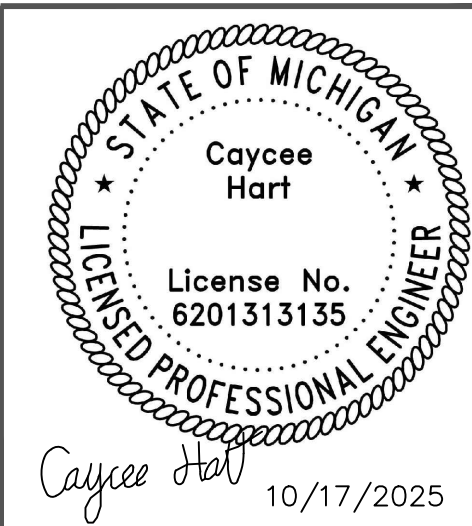


INLET PROTECTION MAINTENANCE & INSPECTIONS

- IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THE CONSTRUCTION ENTRANCE IS MAINTAINED AND FUNCTIONING.
- INLET PROTECTION SHOULD BE INSPECTED AT LEAST WEEKLY. SILT FENCE SHOULD BE INSPECTED BEFORE FORECASTED RAIN EVENTS AND AFTER EACH RAIN EVENT.
- IF THE FILTER BAG BECOMES CLOGGED, TORN, OR DEGRADES IT SHOULD BE REPLACED.
- THE FILTER BAG SHOULD BE REPLACE ONCE SEDIMENT FILLS 1/3 TO 1/2 THE VOLUME OF THE BAG.
- REMOVE THE INLET PROTECTION ONCE THE SITE IS STABILIZED WITH PERMANENT SESC MEASURES.

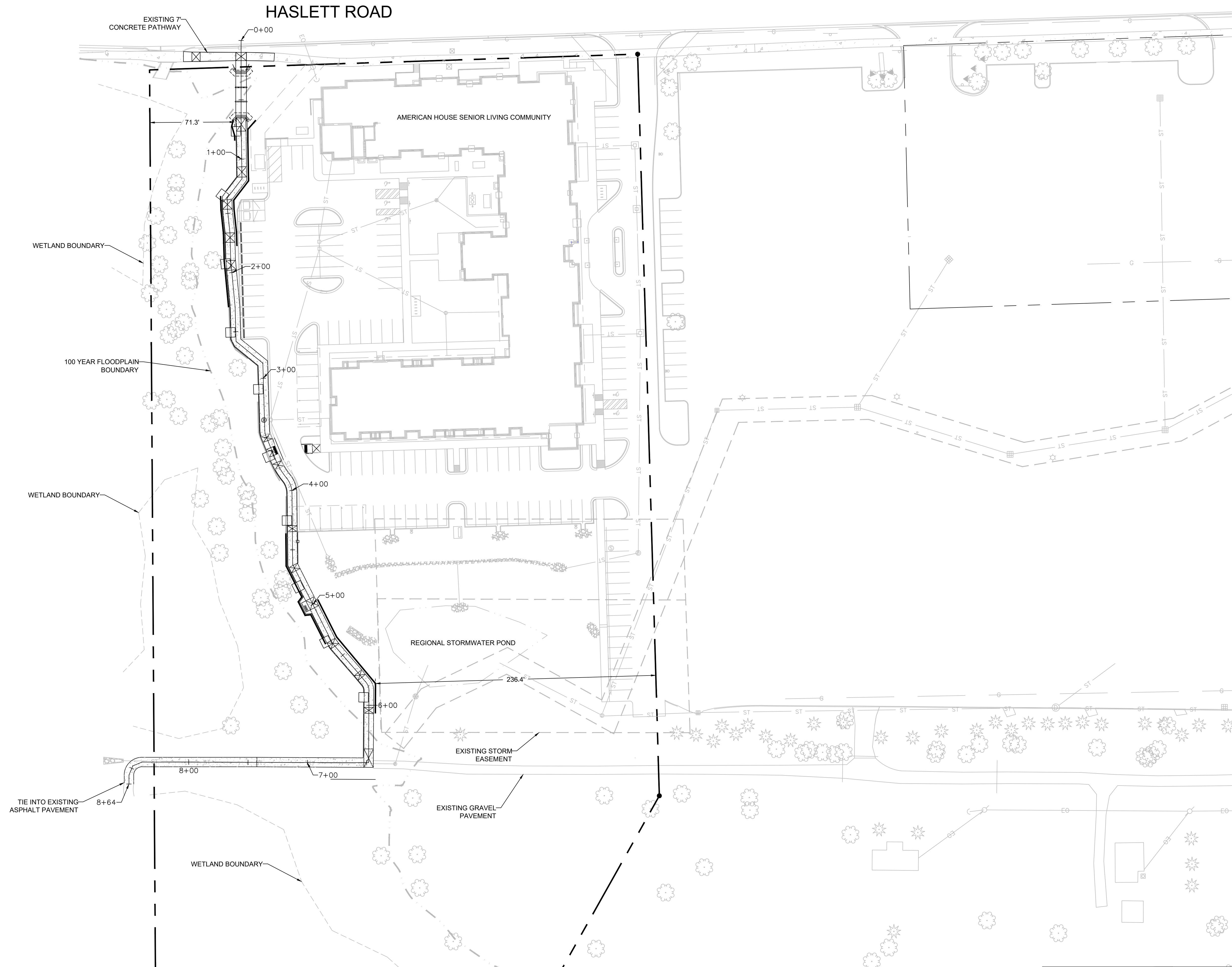
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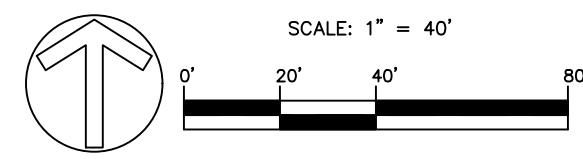
Meridian Charter Township Ingham County, Michigan		REVISIONS:	
PATHWAY		DATE	BY: COMMENTS:
		10.03.25	CH BID SET
		10.17.25	CH BID SET - SHEET PILE CONTRACT; ADD #1
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		5 - SESC NOTES & DETAILS	

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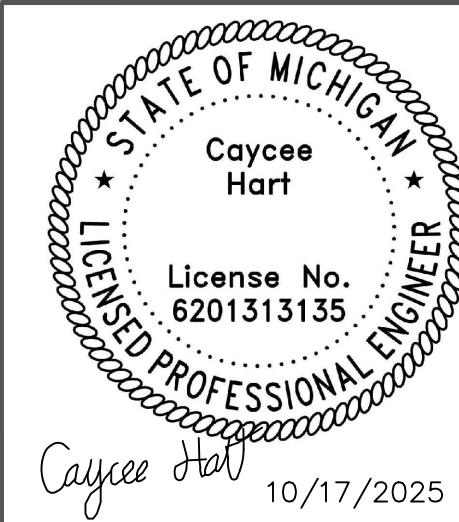
LEGEND

- PROPERTY LINE
- 100 YEAR FLOODPLAIN BOUNDARY
- WETLAND BOUNDARY
- PROPOSED RETAINING WALL
- EXISTING RETAINING WALL
- PROPOSED FENCE
- PROPOSED CONCRETE PATHWAY



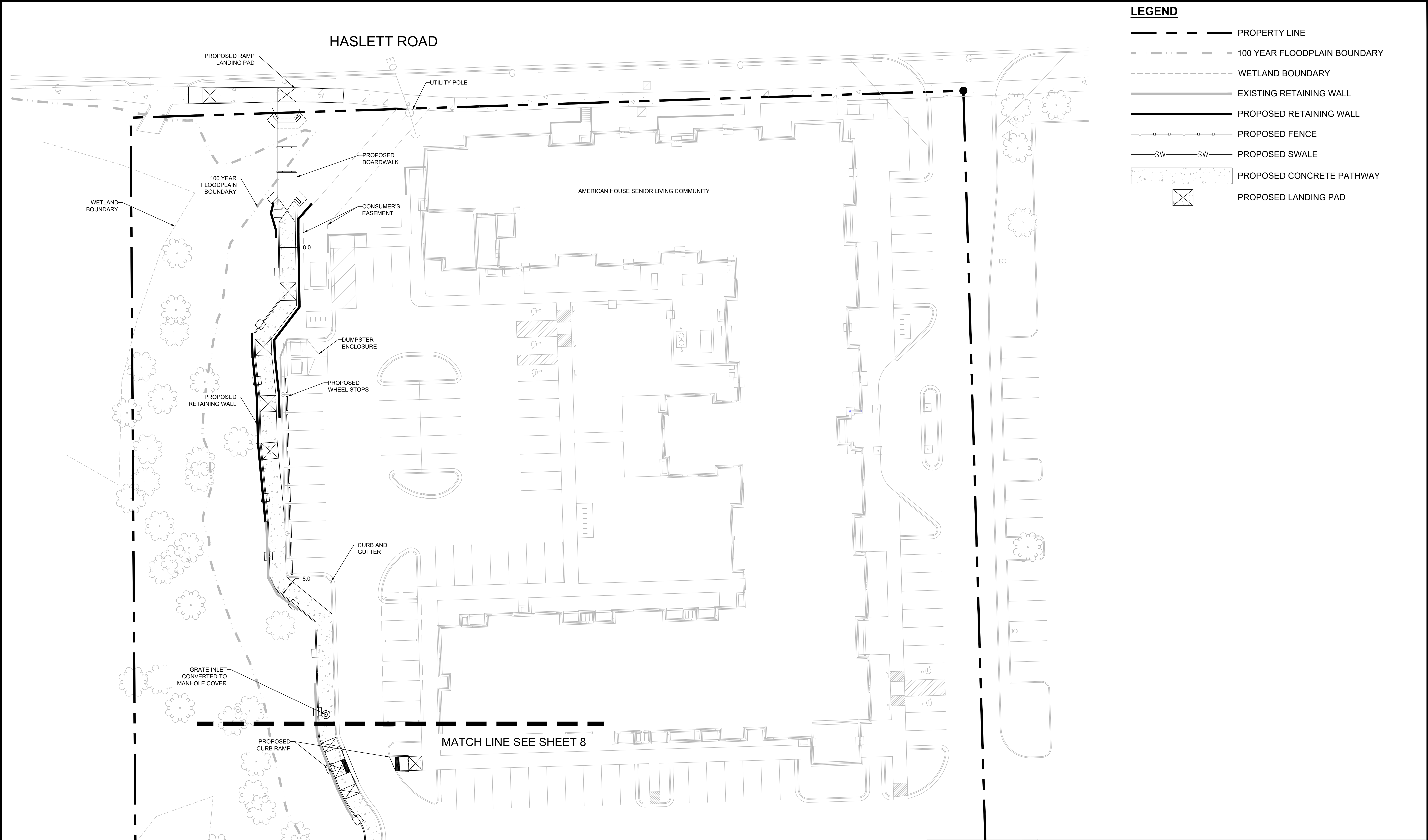
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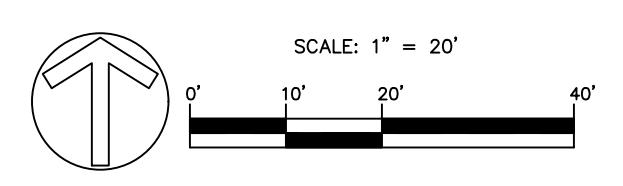
Meridian Charter Township Ingham County, Michigan		PATHWAY	
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DRAWN BY: CH		CHECKED BY: YI	
REVISIONS:		DATE	BY: COMMENTS:
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SHEET:		6 - OVERALL SITE PLAN	

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LEGEND

- PROPERTY LINE
- 100 YEAR FLOODPLAIN BOUNDARY
- WETLAND BOUNDARY
- EXISTING RETAINING WALL
- PROPOSED RETAINING WALL
- PROPOSED FENCE
- PROPOSED SWALE
- PROPOSED CONCRETE PATHWAY
- PROPOSED LANDING PAD



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Caycee Hart
10/17/2025

Meridian Charter Township
Ingham County, Michigan

PATHWAY

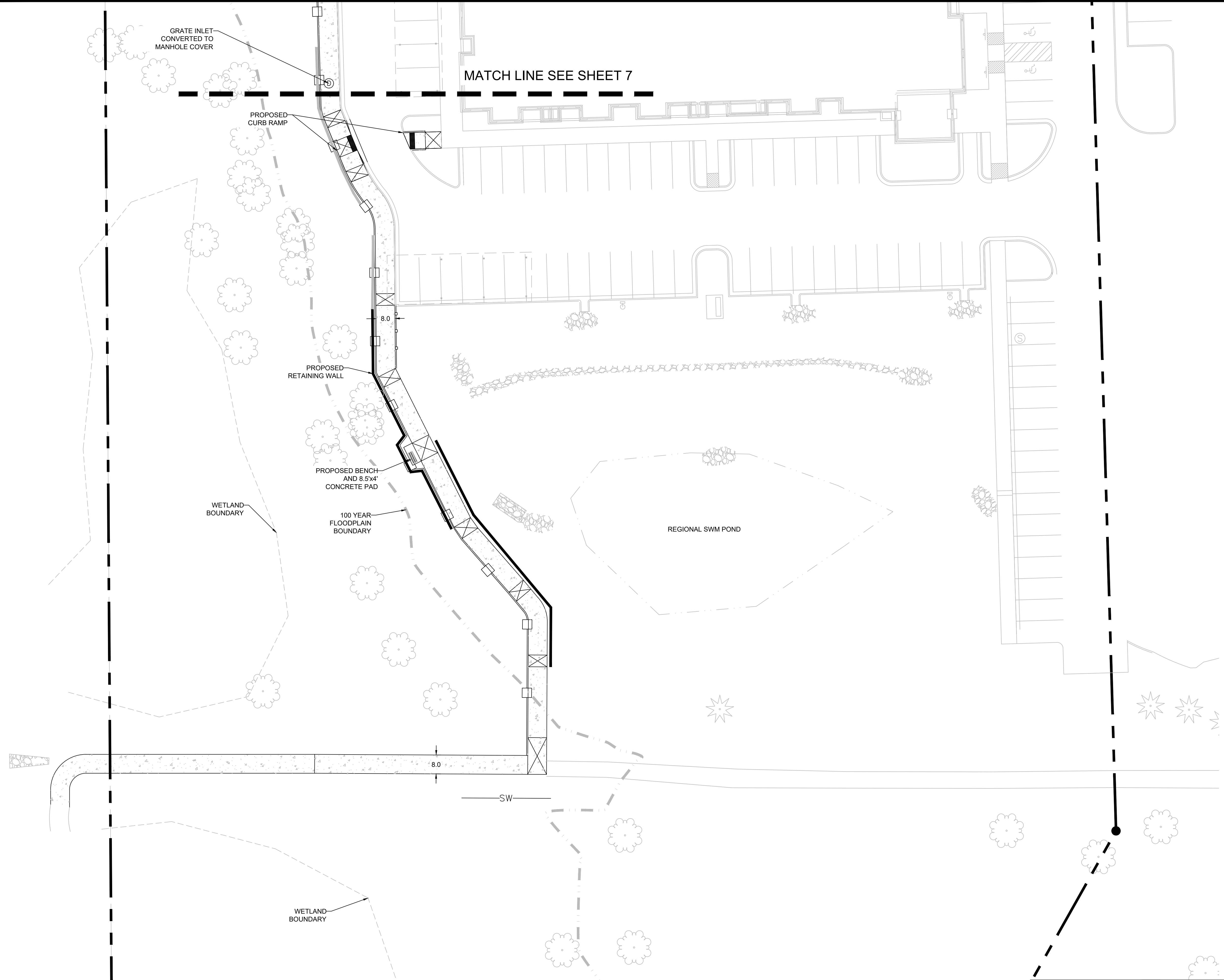
AMERICAN HOUSE PATHWAY
1673 HASETT ROAD
SE 1/4 SECTION 10, T4N, R1W, MERIDIAN TOWNSHIP,
INGHAM COUNTY, MICHIGAN

DRAWN BY: CH CHECKED BY: YI

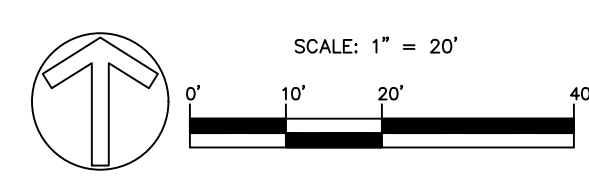
REVISIONS:		
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SHEET:		

7 - SITE PLAN

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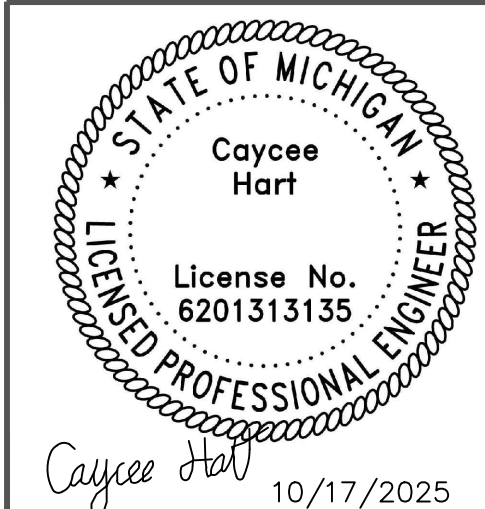


- LEGEND**
- PROPERTY LINE
 - 100 YEAR FLOODPLAIN BOUNDARY
 - WETLAND BOUNDARY
 - EXISTING RETAINING WALL
 - PROPOSED RETAINING WALL
 - PROPOSED FENCE
 - PROPOSED SWALE
 - PROPOSED CONCRETE PATHWAY



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WOLVERINE PIPE LINE COMPANY 219-844-9510



Meridian Charter Township Ingham County, Michigan PATHWAY		REVISIONS:	
		DATE	BY: COMMENTS:
AMERICAN HOUSE PATHWAY 1673 HASLETT ROAD SE 1/4 SECTION 10, T4N, R1W, MERIDIAN TOWNSHIP, INGHAM COUNTY, MICHIGAN		10.03.25	CH BID SET
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DRAWN BY: CH		CHECKED BY: YI	
		SHEET: 8 - SITE PLAN	

HASLETT ROAD

LEGEND

PROPERTY LINE

100 YEAR FLOODPLAIN BOUNDARY

EXISTING SHEET PILE RETAINING WALL

PROPOSED SHEET PILE RETAINING WALL

PROPOSED FENCE

WETLAND BOUNDARY

xxx'

EXISTING CONTOUR

xxx'

PROPOSED CONTOUR

PROFILE ALIGNMENT (SEE SHEET 13 FOR PROFILE)

CROSS SECTION

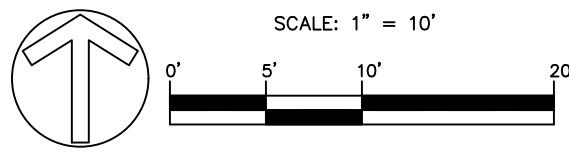
- ADA NOTES:
1.

THE CROSS SLOPE OF THE PATHWAY SHALL NOT EXCEED 2% SLOPE
2.

A SLOPE BETWEEN 5% AND 8.33% CONSTITUTES AS A RAMP AND A LANDING PAD SHOULD BE LOCATED AT THE TOP AND BOTTOM OF EACH RAMP.
3.

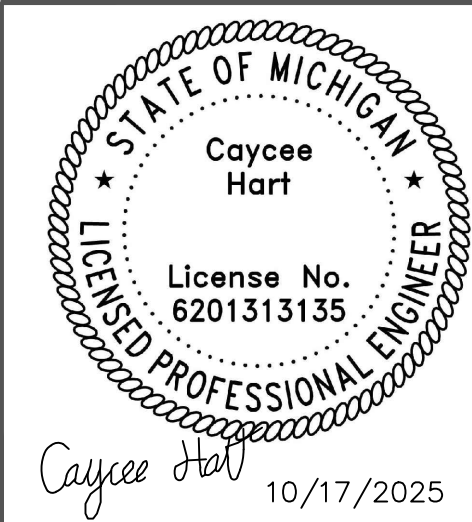
LANDING PADS MUST BE A MINIMUM OF 5'X8' AND THE SLOPE SHOULD NOT BE GREATER THAN 2% IN ANY DIRECTION.
4.

THE MAXIMUM RISE OF EACH RAMP IS 30 INCHES. LANDINGS SHALL BE SPACED SO THAT EACH RAMP DOES NOT EXCEED 30 INCHES OF RISE.



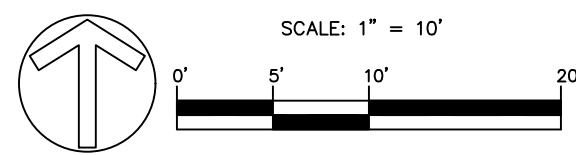
Call 811 before you dig.

WOLVERINE PIPE LINE COMPANY 219-844-9510



Meridian Charter Township Ingham County, Michigan		REVISIONS:	
PATHWAY		DATE	BY: COMMENTS:
		10.03.25	CH BID SET
		10.17.25	CH BID SET - SHEET PILE CONTRACT; ADD #1
AMERICAN HOUSE PATHWAY 1673 HASLETT ROAD			
SE 1/4 SECTION 10, T4N, R1W, MERIDIAN TOWNSHIP, INGHAM COUNTY, MICHIGAN			
DRAWN BY: CH		CHECKED BY: YI	
		SHEET:	
		9 - GRADING PLAN	

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MATCH LINE SEE SHEET 9

MATCH LINE SEE SHEET 9

LEGEND

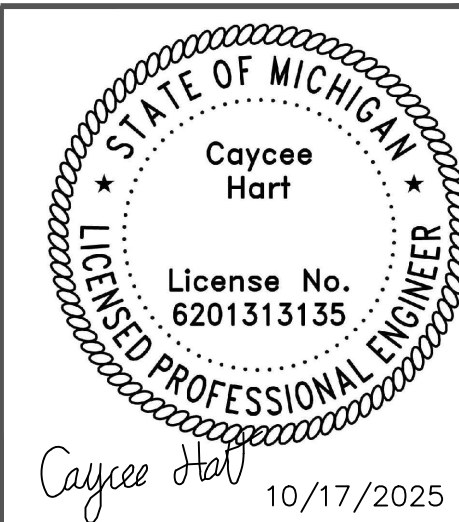
- PROPERTY LINE
- 100 YEAR FLOODPLAIN BOUNDARY
- EXISTING SHEET PILE RETAINING WALL
- PROPOSED SHEET PILE RETAINING WALL
- PROPOSED FENCE
- WETLAND BOUNDARY
- EXISTING CONTOUR
- PROPOSED CONTOUR
- PROFILE ALIGNMENT (SEE SHEET 13 FOR PROFILE)
- CROSS SECTION

ADA NOTES:

- THE CROSS SLOPE OF THE PATHWAY SHALL NOT EXCEED 2% SLOPE
- A SLOPE BETWEEN 5% AND 8.33% CONSTITUTES AS A RAMP AND A LANDING PAD SHOULD BE LOCATED AT THE TOP AND BOTTOM OF EACH RAMP.
- LANDING PADS MUST BE A MINIMUM OF 5'X8' AND THE SLOPE SHOULD NOT BE GREATER THAN 2% IN ANY DIRECTION.
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Call 811 before you dig.

WOLVERINE PIPE LINE COMPANY 219-844-9510



Meridian Charter Township
Ingham County, Michigan
PATHWAY

AMERICAN HOUSE PATHWAY
1673 HASLETT ROAD
SE 1/4 SECTION 10, T4N, R1W, MERIDIAN TOWNSHIP,
INGHAM COUNTY, MICHIGAN

DRAWN BY: CH

CHECKED BY: YI

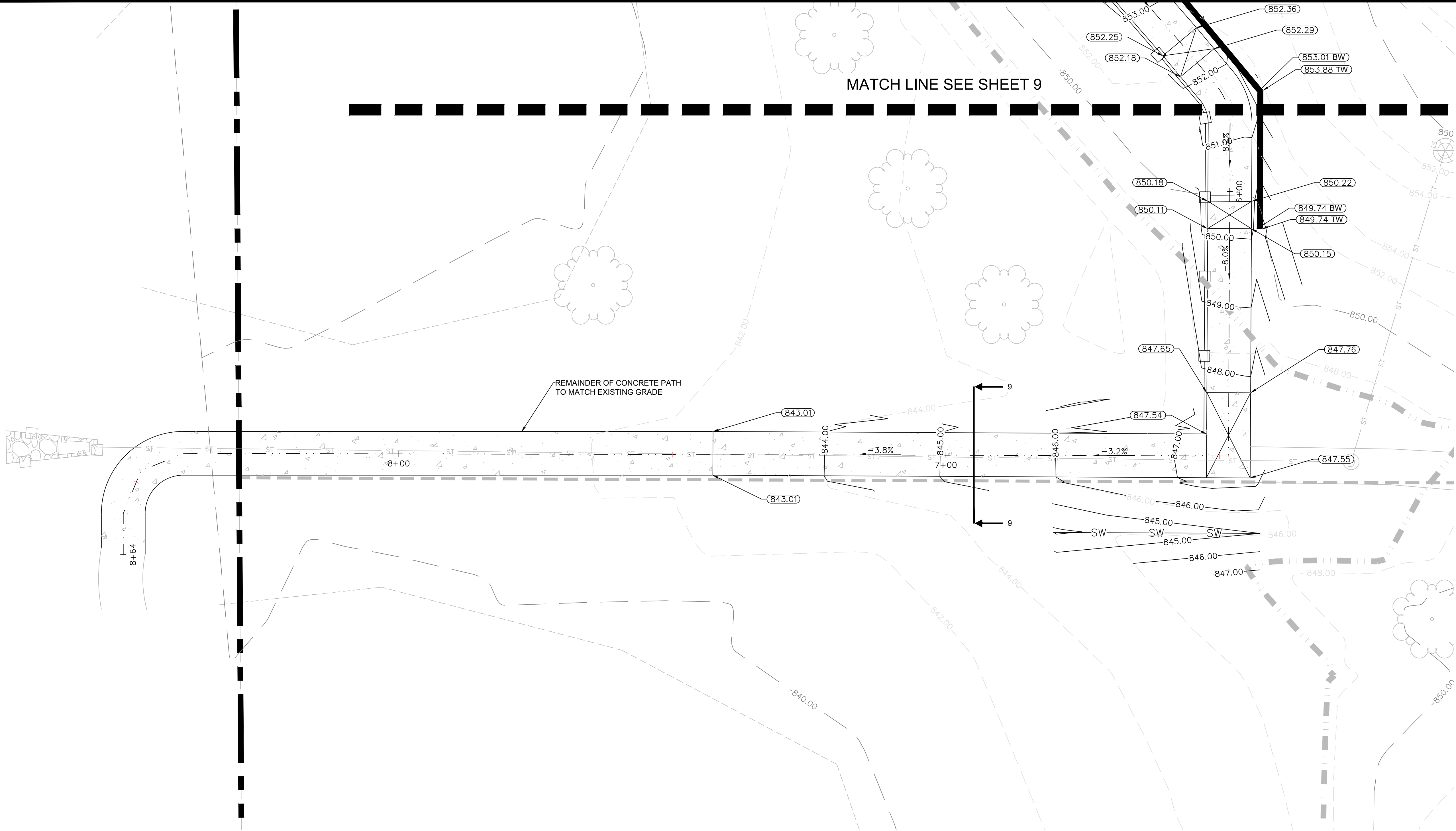
REVISIONS:

DATE	BY:	COMMENTS:
10.03.25	CH	BID SET
10.17.25	CH	BID SET - SHEET PILE CONTRACT; ADD #1

SHEET:

10 - GRADING PLAN

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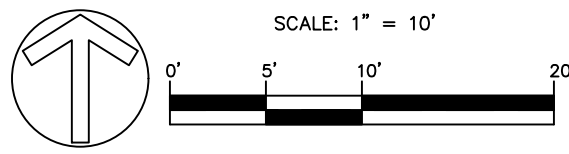


LEGEND

- PROPERTY LINE
- 100 YEAR FLOODPLAIN BOUNDARY
- EXISTING SHEET PILE RETAINING WALL
- PROPOSED SHEET PILE RETAINING WALL
- PROPOSED FENCE
- WETLAND BOUNDARY
- EXISTING CONTOUR
- PROPOSED CONTOUR
- PROFILE ALIGNMENT (SEE SHEET 13 FOR PROFILE)
- CROSS SECTION

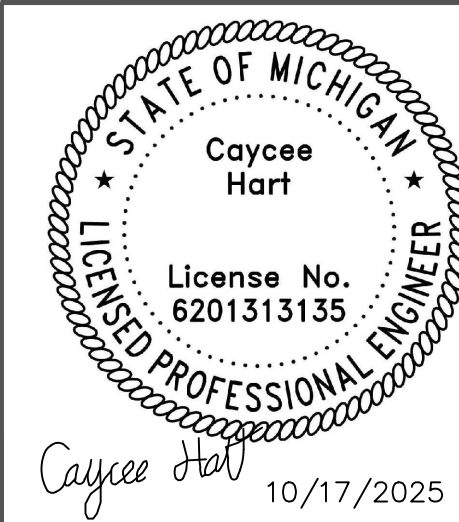
ADA NOTES:

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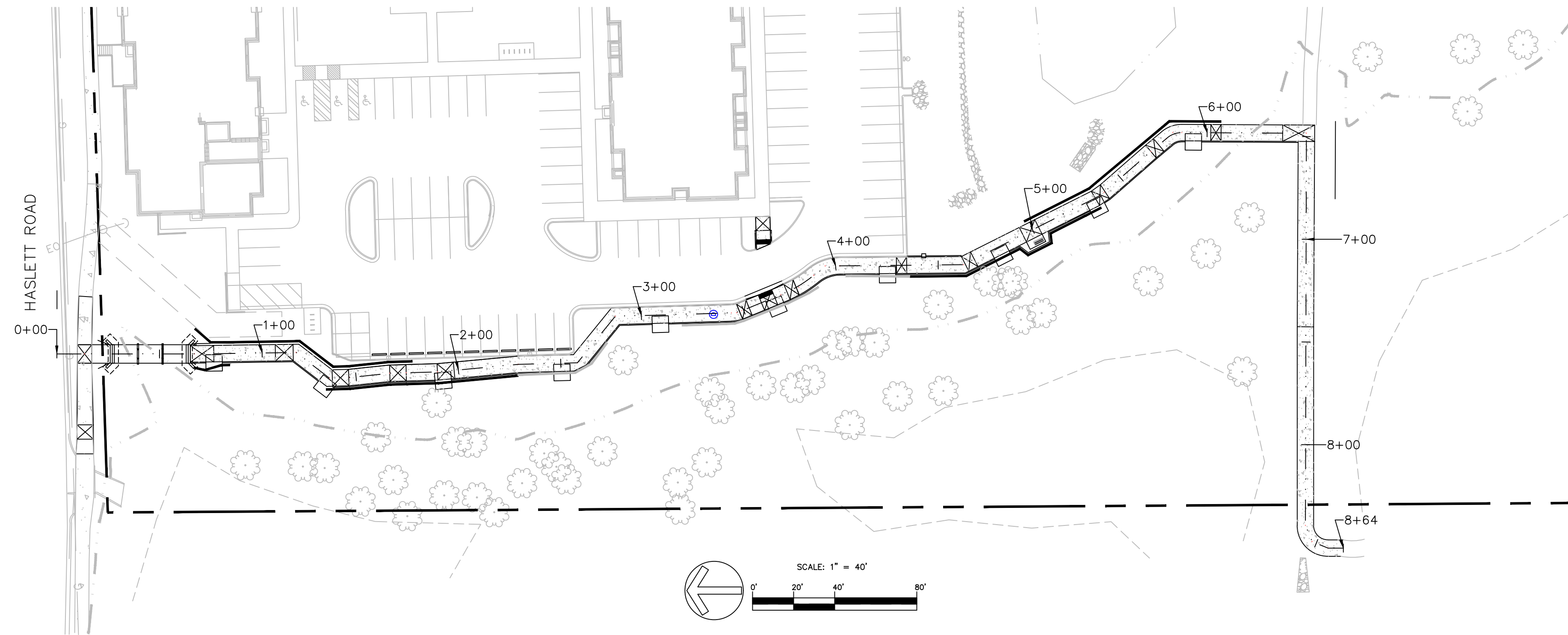
Call 811 before you dig.

WOLVERINE PIPE LINE COMPANY 219-844-9510

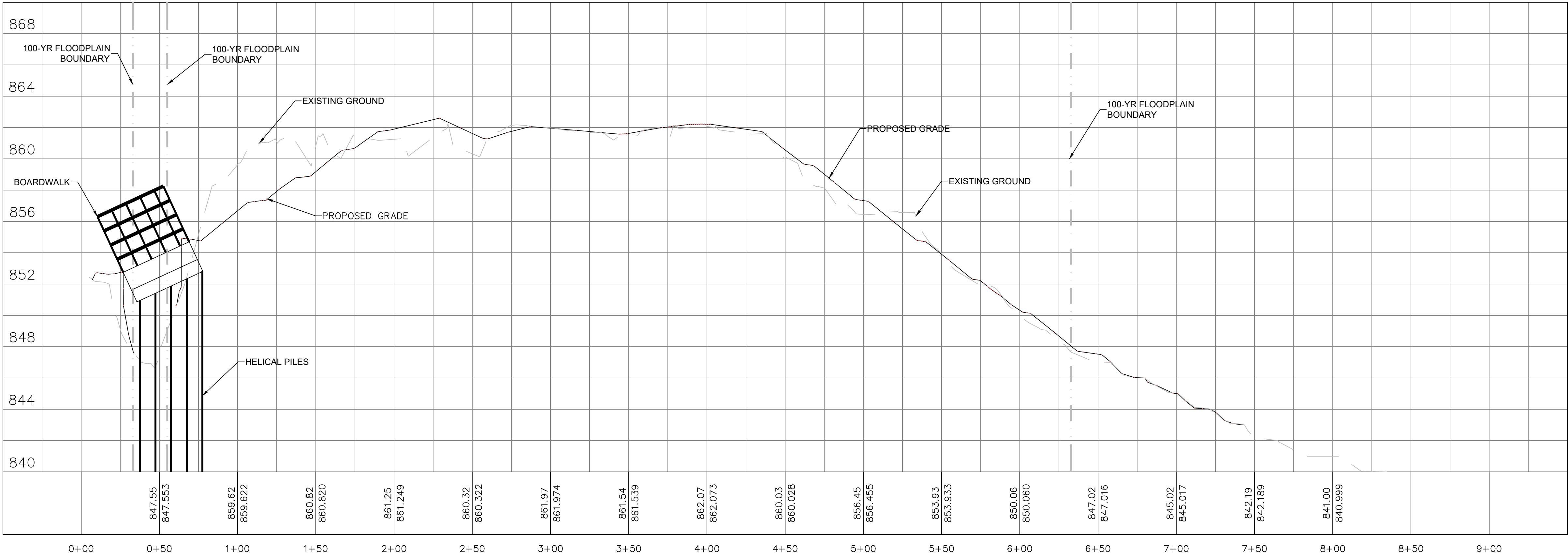


Meridian Charter Township Ingham County, Michigan PATHWAY	REVISIONS:	
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AMERICAN HOUSE PATHWAY 1673 HASLETT ROAD SE 1/4 SECTION 10, T4N, R1W, MERIDIAN TOWNSHIP, INGHAM COUNTY, MICHIGAN	SHEET:	
	12 - GRADING PLAN	
DRAWN BY: CH	CHECKED BY: YI	

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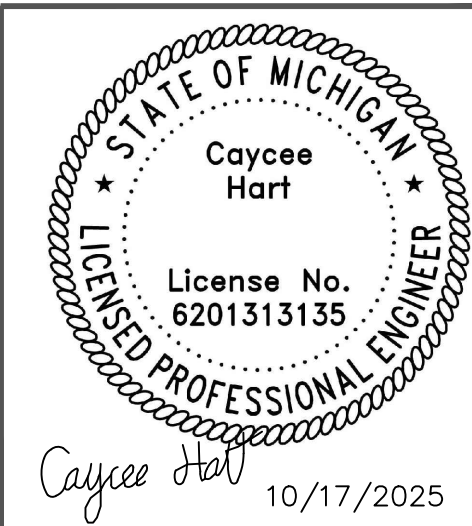


PATH PROFILE PROFILE
HORIZ. SCALE: 1"=40'
VERT. SCALE: 1"=4'



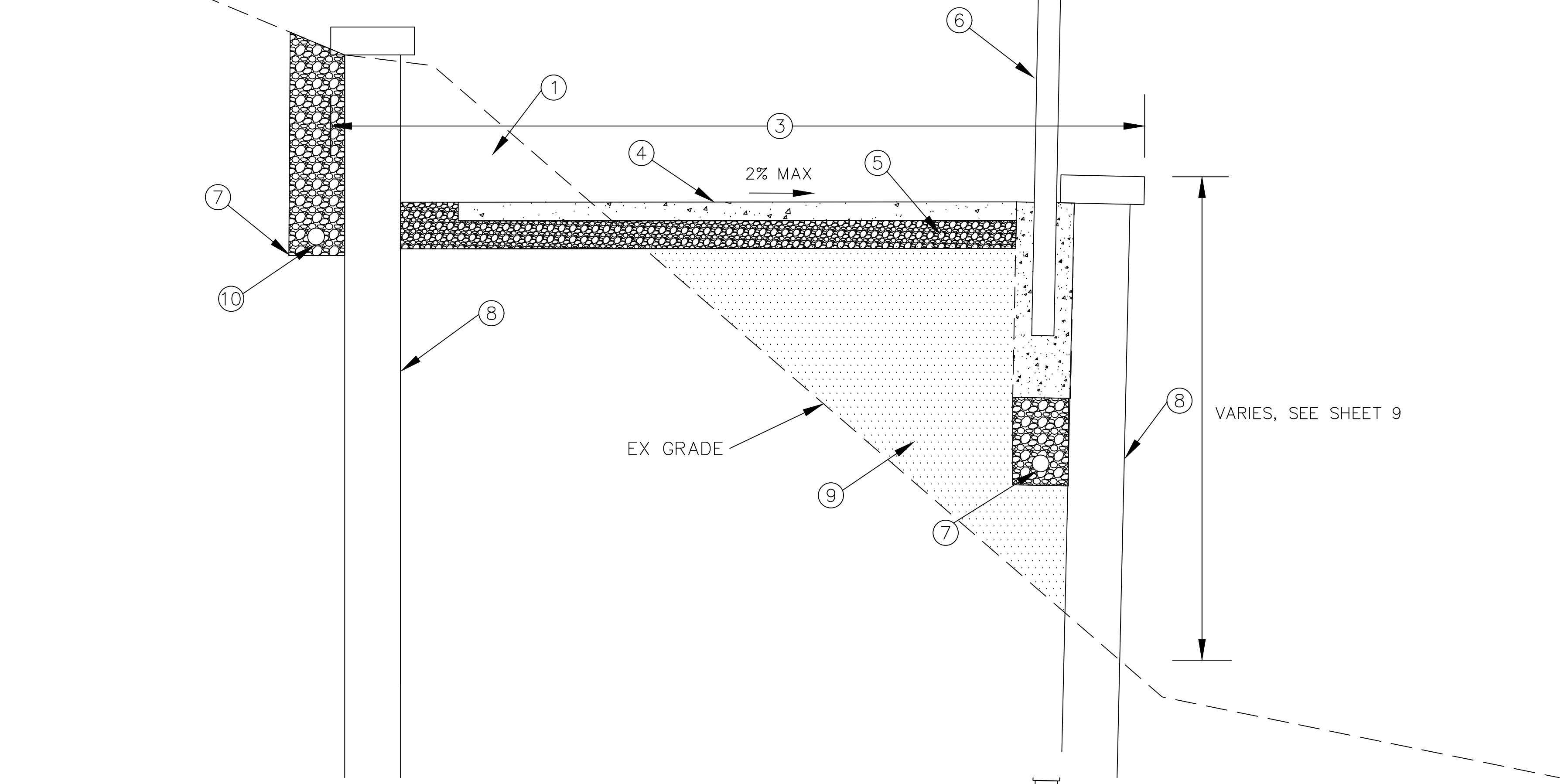
Call 811 before you dig.

WOLVERINE PIPE LINE COMPANY 219-844-9510

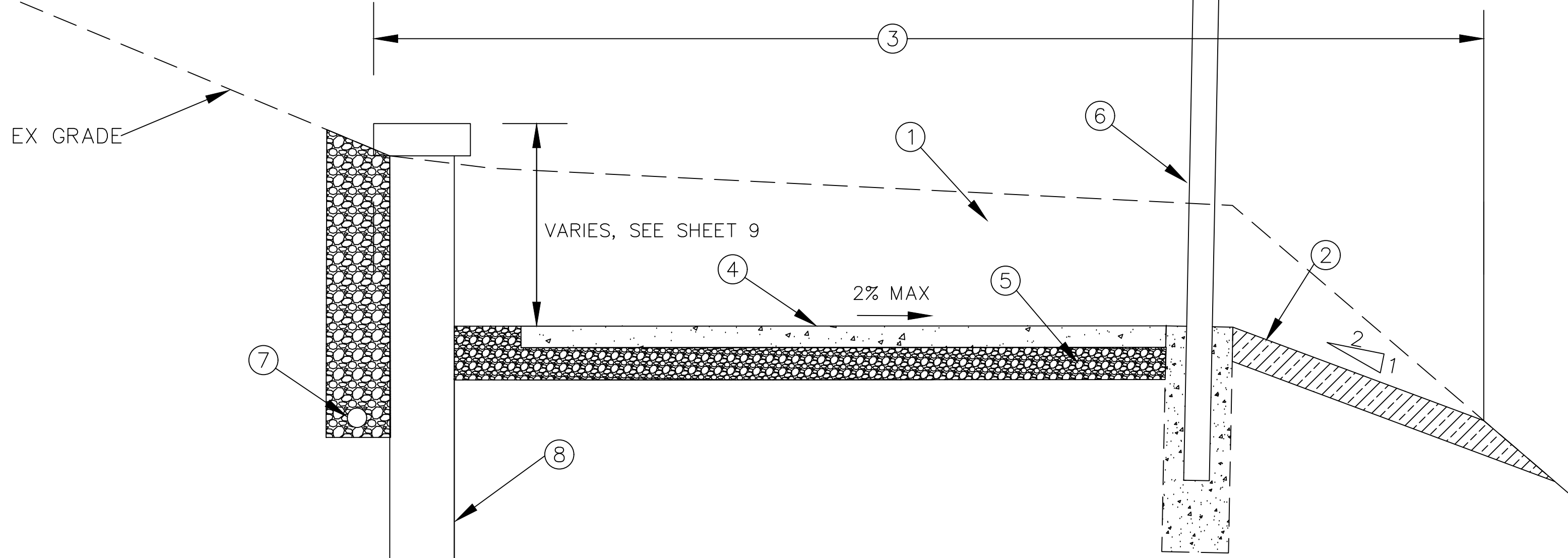


Meridian Charter Township Ingham County, Michigan		PATHWAY		REVISIONS:	
				DATE	BY: COMMENTS:
AMERICAN HOUSE PATHWAY 1673 HASLETT ROAD SE 1/4 SECTION 10, T4N, R1W, MERIDIAN TOWNSHIP, INGHAM COUNTY, MICHIGAN				10.03.25	CH BID SET
				10.17.25	CH BID SET - SHEET PILE CONTRACT; ADD #1
DRAWN BY: CH		CHECKED BY: YI		SHEET:	
				13 - PATHWAY PROFILE	

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TYPICAL DETAIL
STA: 0+65 TO 0+84, 1+37 TO 1+84



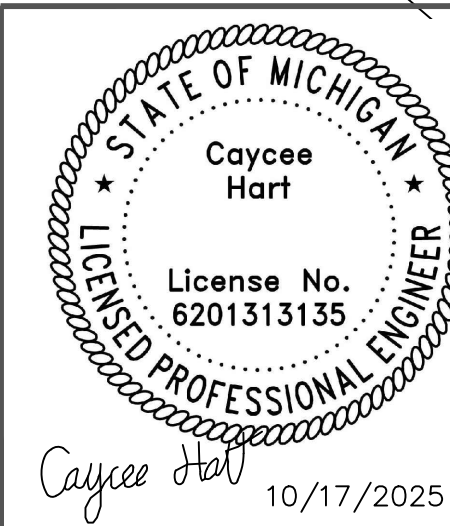
TYPICAL DETAIL
STA: 0+84 TO 1+37

PAY ITEM LEGEND:

- ① EXCAVATION, EARTH
- ② SITE RESTORATION (3" SCREENED TOPSOIL
- ③ SHARED USE PATH, GRADING
- ④ SHARED USE PATH, 4" CONCRETE
- ⑤ SHARED USE PATH AGGREGATE, 3 INCH COMPACTED SAND
- ⑥ FENCE, SEE DETAIL ON SHEET 7
- ⑦ UNDERDRAIN, PIPE, OPEN-GRADED, 4 INCH
- ⑧ SHEET PILE RETAINING WALL
- ⑨ EMBANKMENT, LM

GENERAL NOTES:

- CROSS-SECTIONS ARE NOT TO SCALE.
- CROSS-SECTIONS ARE LOOKING UP-STATION.
- SALVAGE OR REMOVE EXISTING TOPSOIL WITHIN THE GRADING LIMITS, OR AS DIRECTED BY THE ENGINEER. REMOVAL AND DISPOSAL WILL BE PAID FOR AS EXCAVATION, EARTH.
- TOPSOIL FOR SITE RESTORATION MAY BE SALVAGED FROM SITE, BUT MUST BE SCREENED OR RAKED TO REMOVE 1" OR GREATER DEBRIS.
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- EMBANKMENT, LM SHALL BE CLASS II GRANULAR MATERIAL OR ASPHALT MILLINGS.
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REVISIONS:		
DATE	BY:	COMMENTS:
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10.17.25	CH	BID SET - SHEET PILE CONTRACT; ADD #1
SHEET:		
14 - TYPICAL SECTIONS		

Meridian Charter Township
Ingham County, Michigan

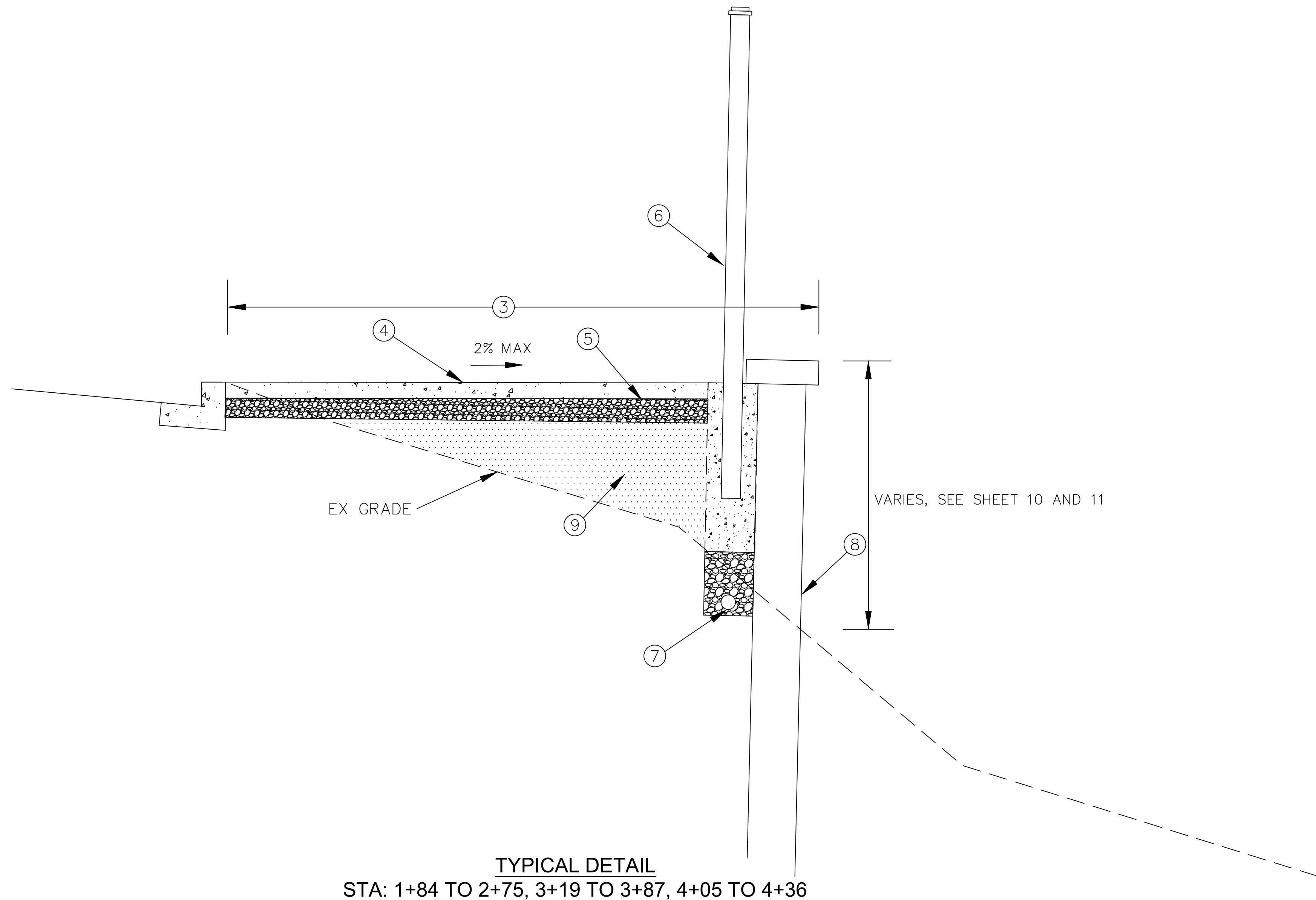
PATHWAY

AMERICAN HOUSE PATHWAY
1673 HASLETT ROAD
SE 1/4 SECTION 10, T4N, R1W, MERIDIAN TOWNSHIP,
INGHAM COUNTY, MICHIGAN

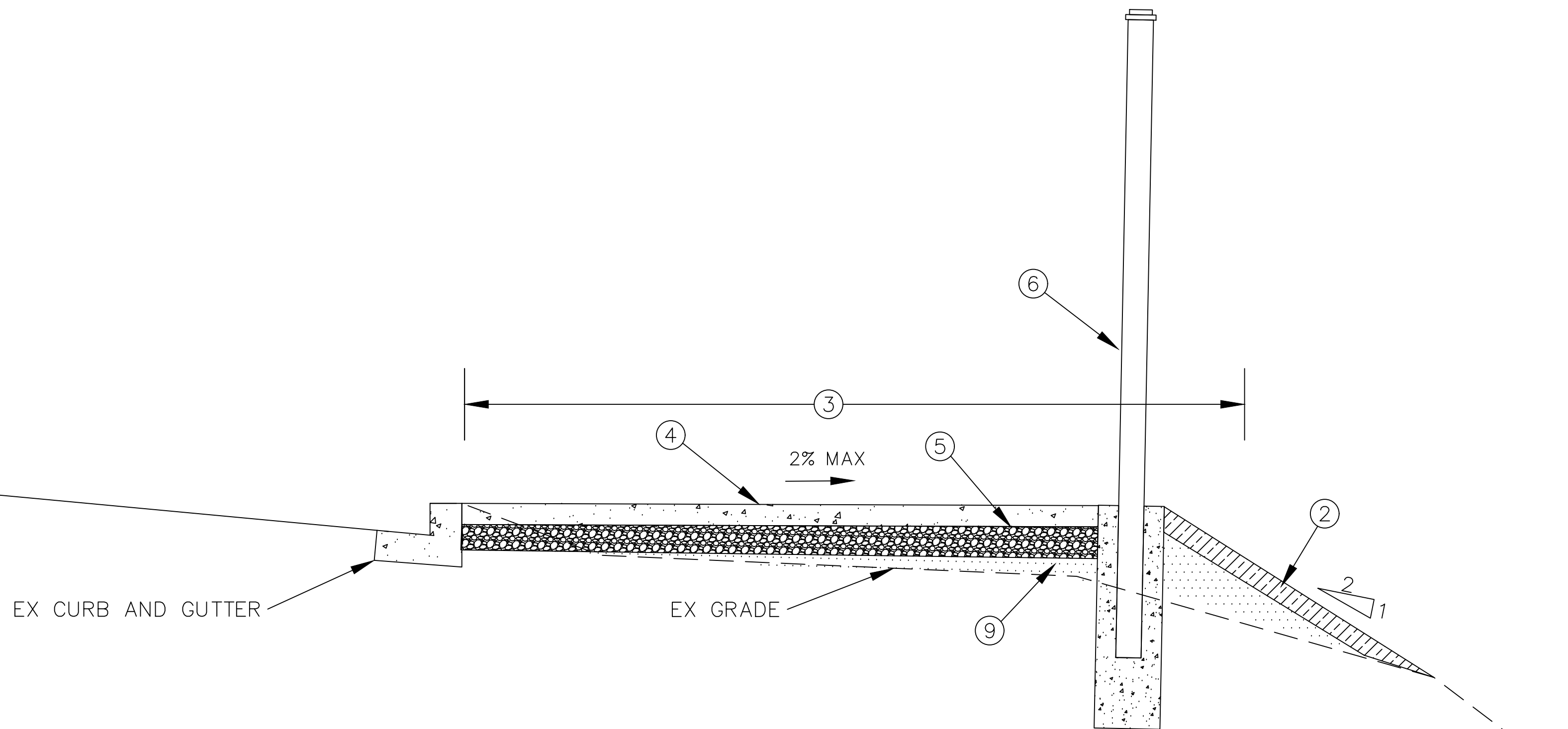
DRAWN BY: CH

CHECKED BY: YI

G:\Engineering & Public Works\Developments\Haslett 1673 American House\Pathway\CAD\Plan Sheets\Typical Details and Sections.dwg



TYPICAL DETAIL
STA: 1+84 TO 2+75, 3+19 TO 3+87, 4+05 TO 4+36



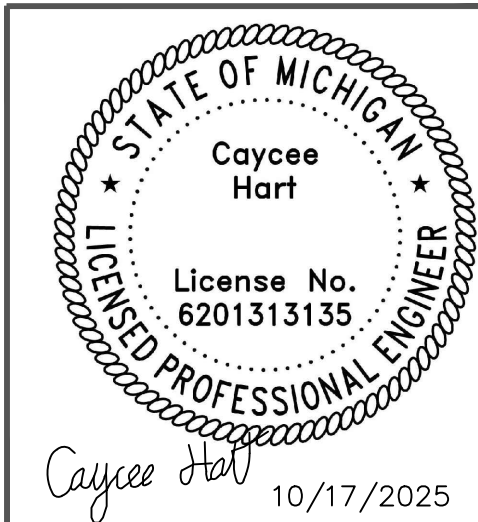
TYPICAL DETAIL
STA: 2+75 TO 3+19, 3+87 TO 4+05

PAY ITEM LEGEND:

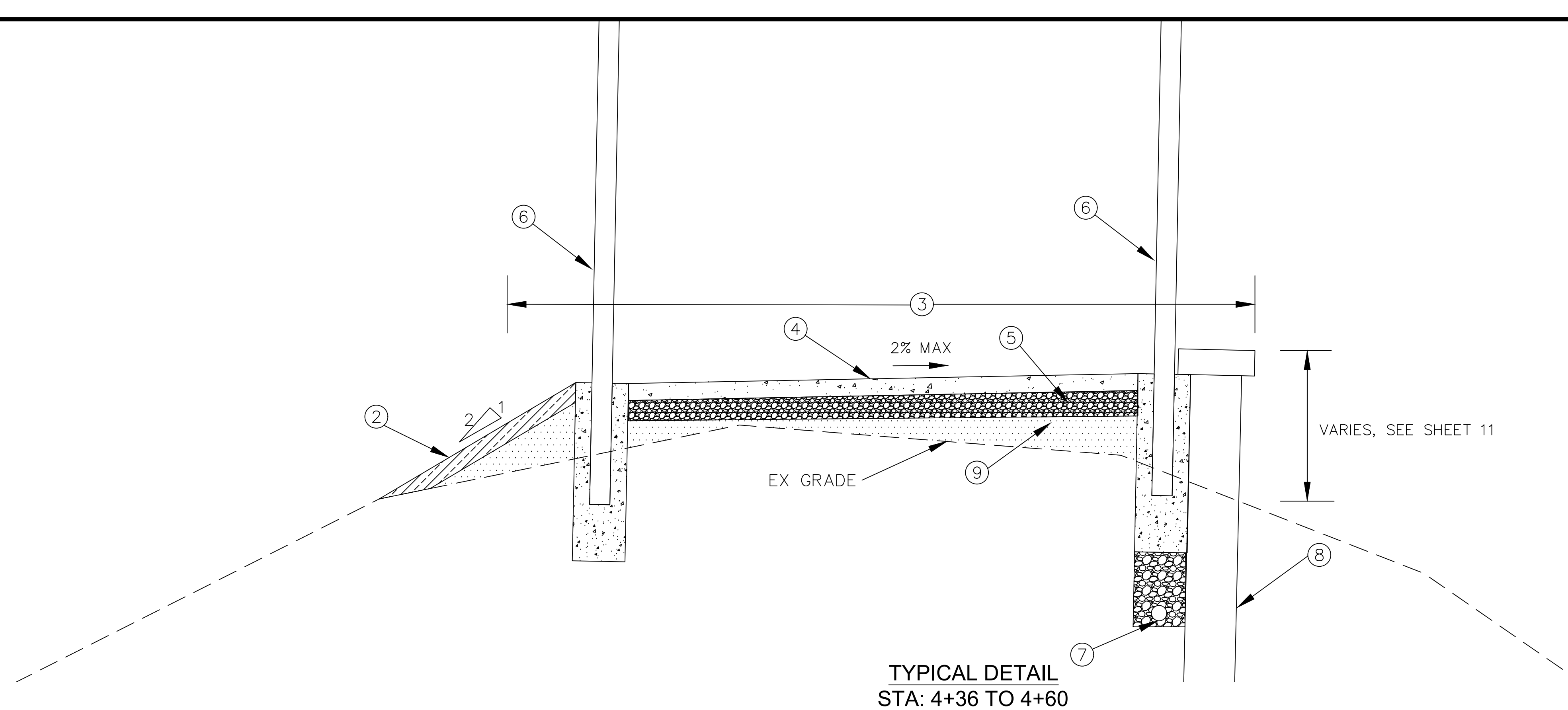
- ① EXCAVATION, EARTH
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- ⑨ EMBANKMENT, LM

GENERAL NOTES:

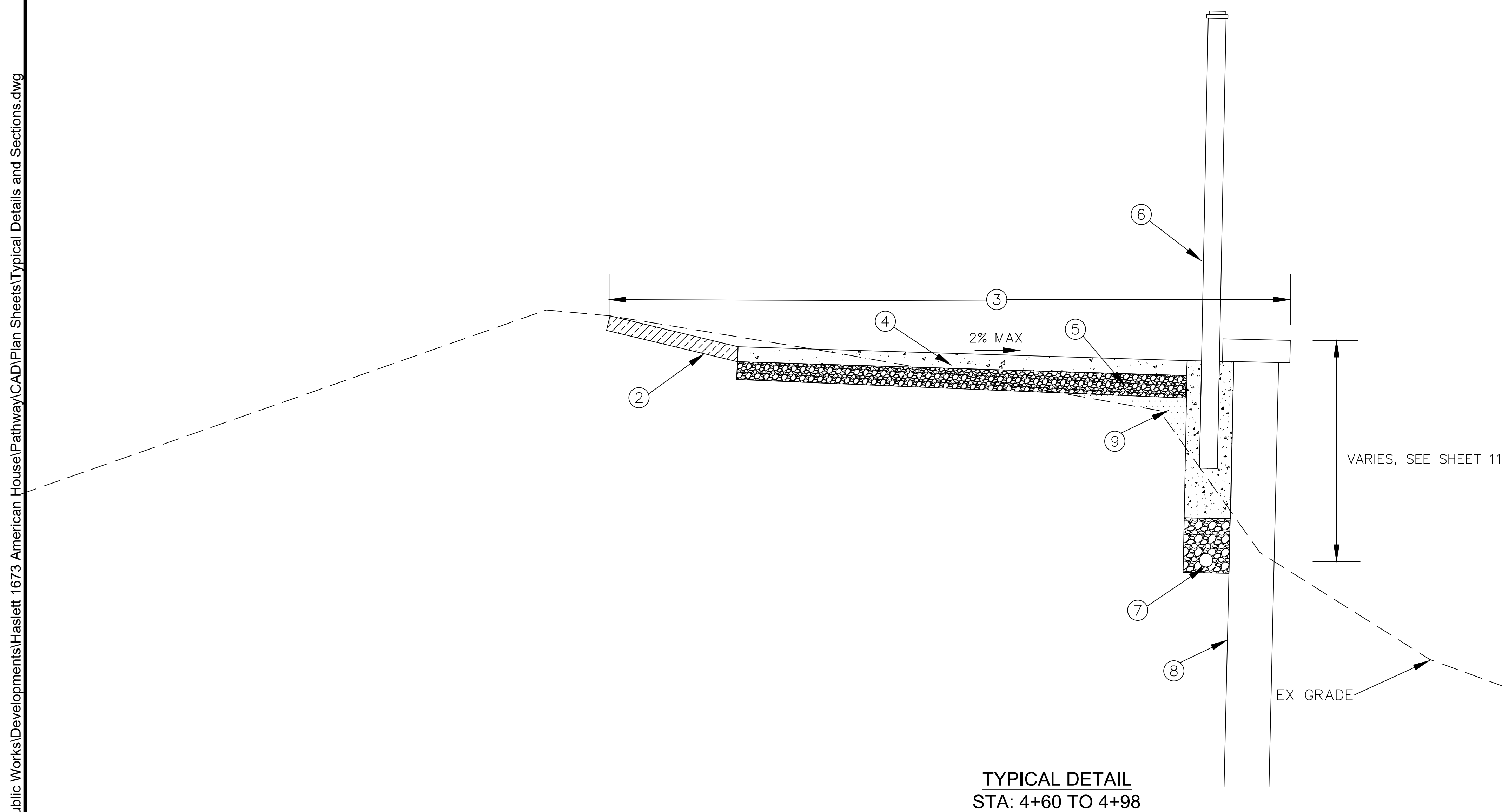
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AMERICAN HOUSE PATHWAY 1673 HASLETT ROAD SE 1/4 SECTION 10, T4N, R1W, MERIDIAN TOWNSHIP, INGHAM COUNTY, MICHIGAN			
DRAWN BY: CH		CHECKED BY: YI	
		SHEET: 15 - TYPICAL SECTIONS	



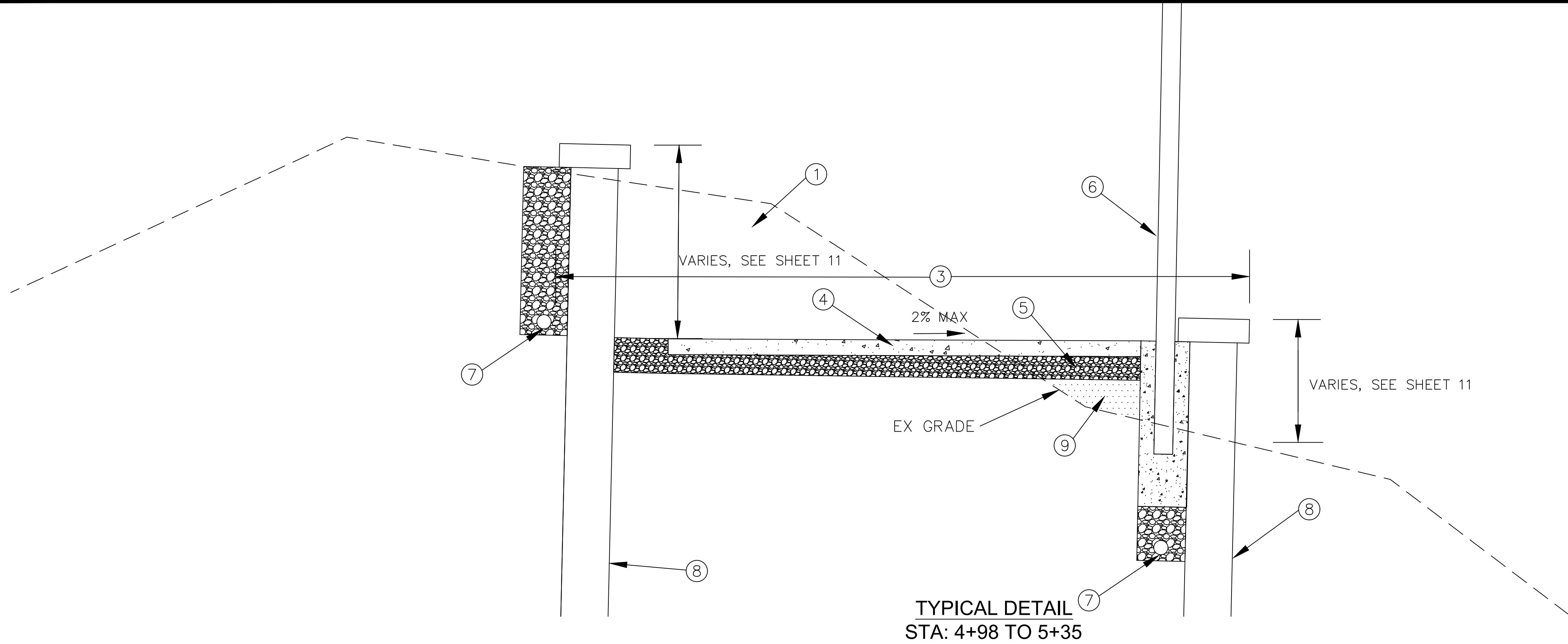
- PAY ITEM LEGEND:
- ① EXCAVATION, EARTH
 - ② SITE RESTORATION (3" SCREENED TOPSOIL
 - ③ SHARED USE PATH, GRADING
 - ④ SHARED USE PATH, 4" CONCRETE
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AMERICAN HOUSE PATHWAY 1673 HASLETT ROAD SE 1/4 SECTION 10, T4N, R1W, MERIDIAN TOWNSHIP, INGHAM COUNTY, MICHIGAN		SHEET:	
DRAWN BY: CH	CHECKED BY: Y1	16 - TYPICAL SECTIONS	

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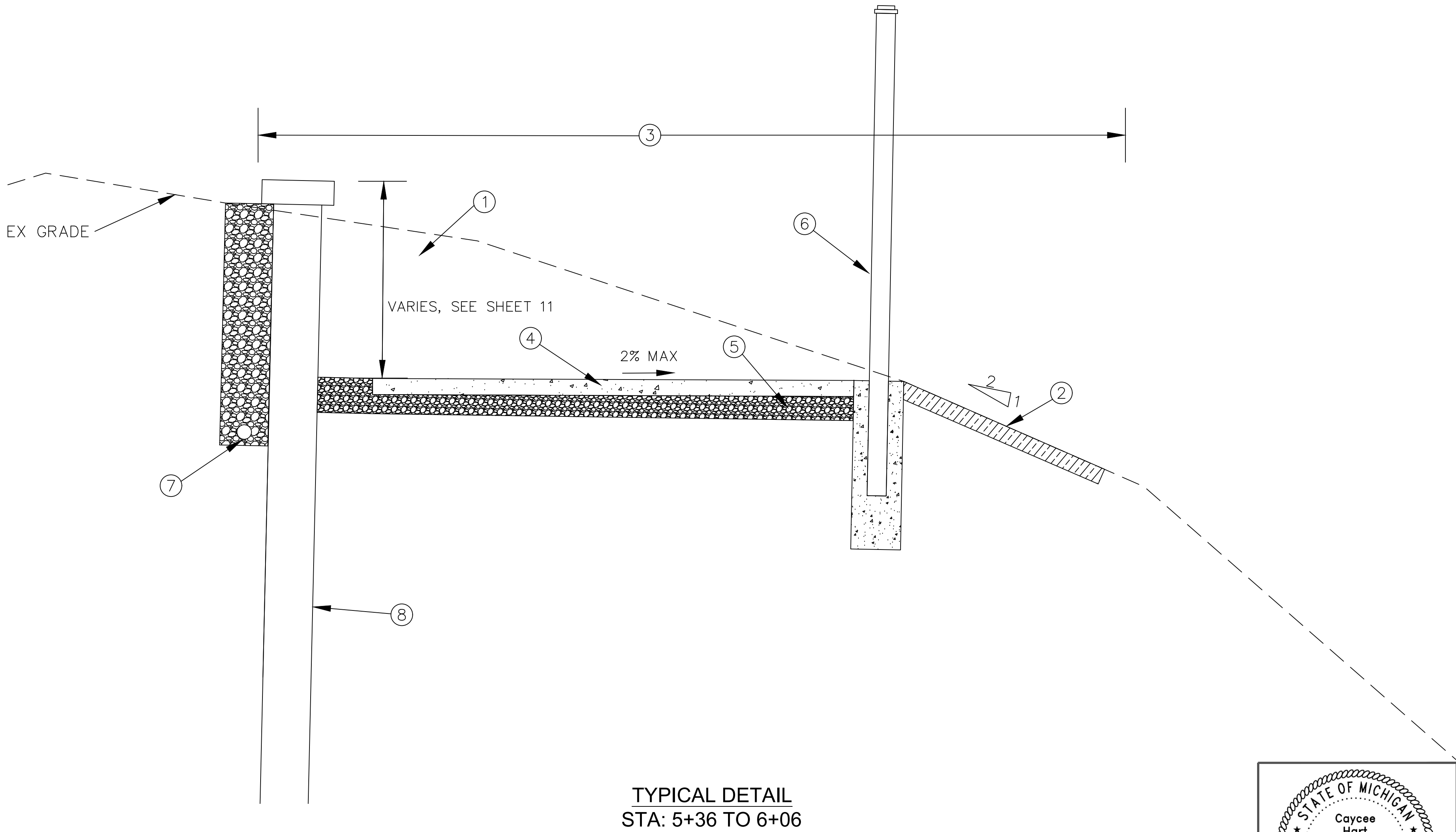
TYPICAL DETAIL
STA: 4+98 TO 5+35

PAY ITEM LEGEND:

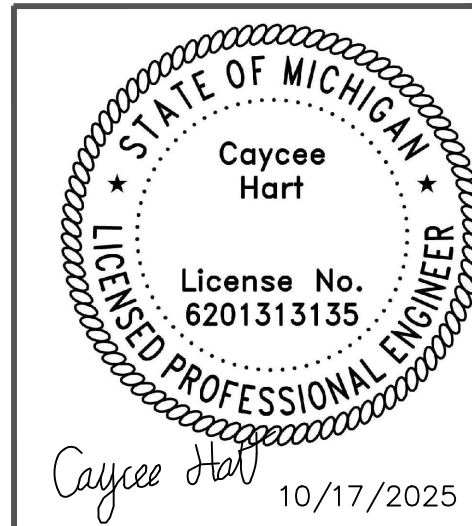
- ① EXCAVATION, EARTH
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- ③ SHARED USE PATH, GRADING
- ④ SHARED USE PATH, 4" CONCRETE
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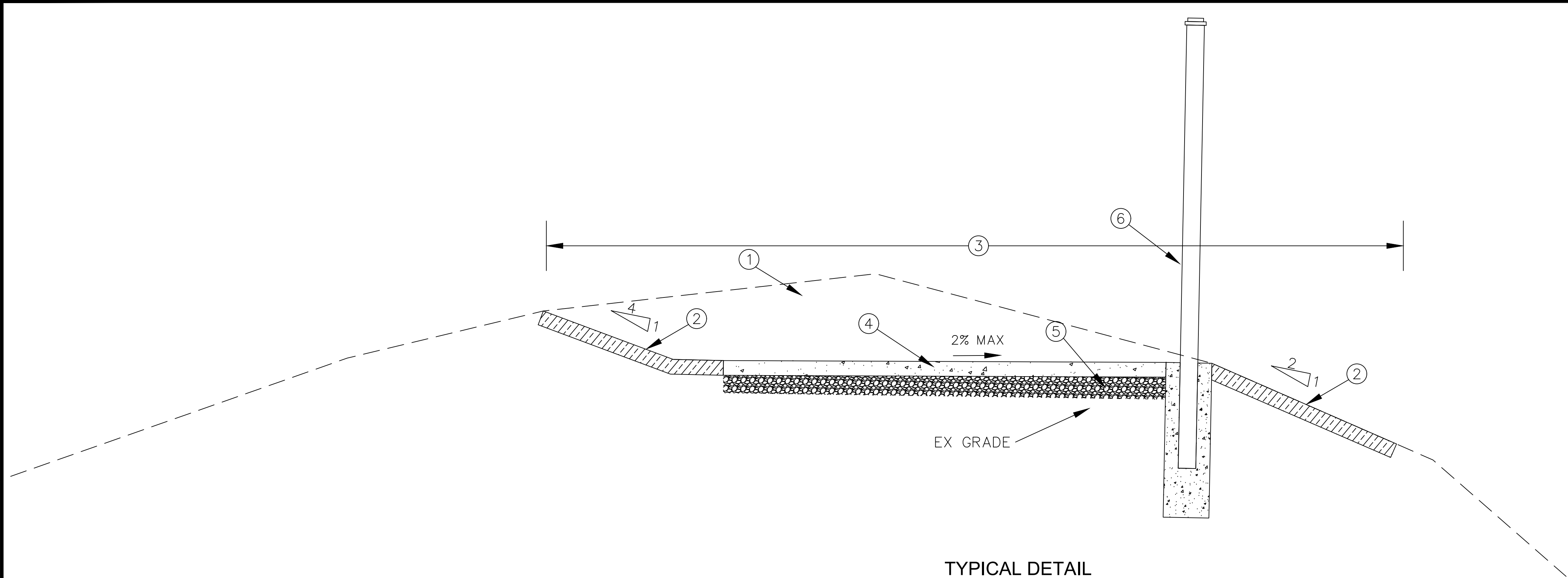


TYPICAL DETAIL
STA: 5+36 TO 6+06



Meridian Charter Township Ingham County, Michigan PATHWAY		REVISIONS:	
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AMERICAN HOUSE PATHWAY 1673 HASLETT ROAD SE 1/4 SECTION 10, T4N, R1W, MERIDIAN TOWNSHIP, INGHAM COUNTY, MICHIGAN			
DRAWN BY: CH		CHECKED BY: YI	
		SHEET:	
		17 - TYPICAL SECTIONS	

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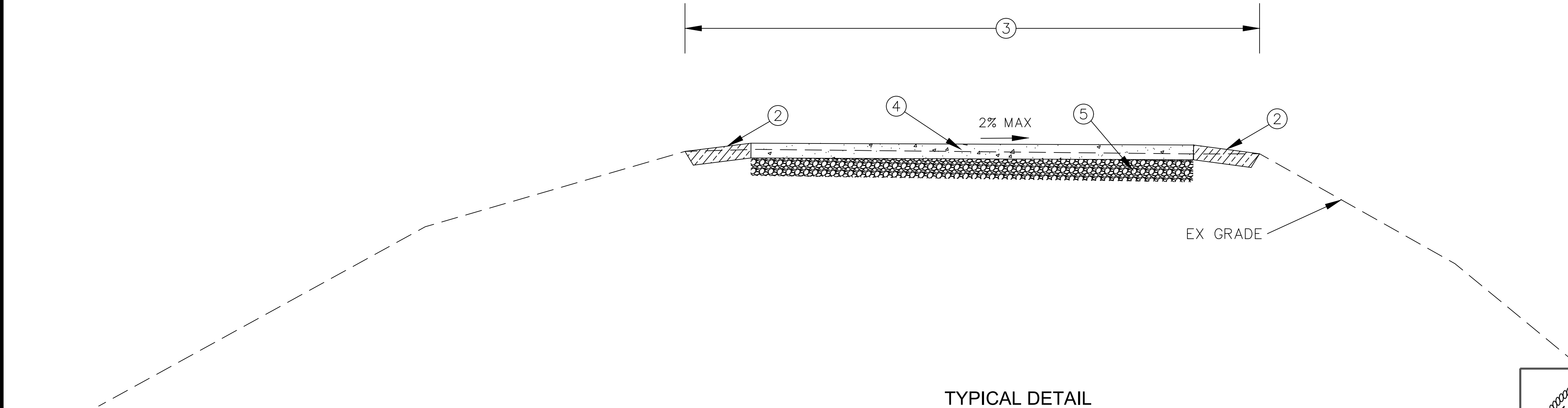
TYPICAL DETAIL
STA: 6+06 TO 6+53

PAY ITEM LEGEND:

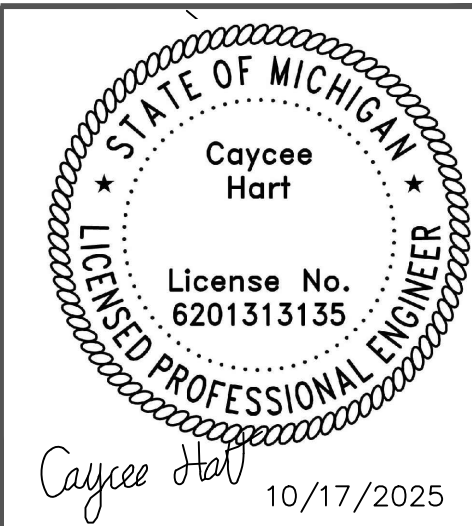
- ① EXCAVATION, EARTH
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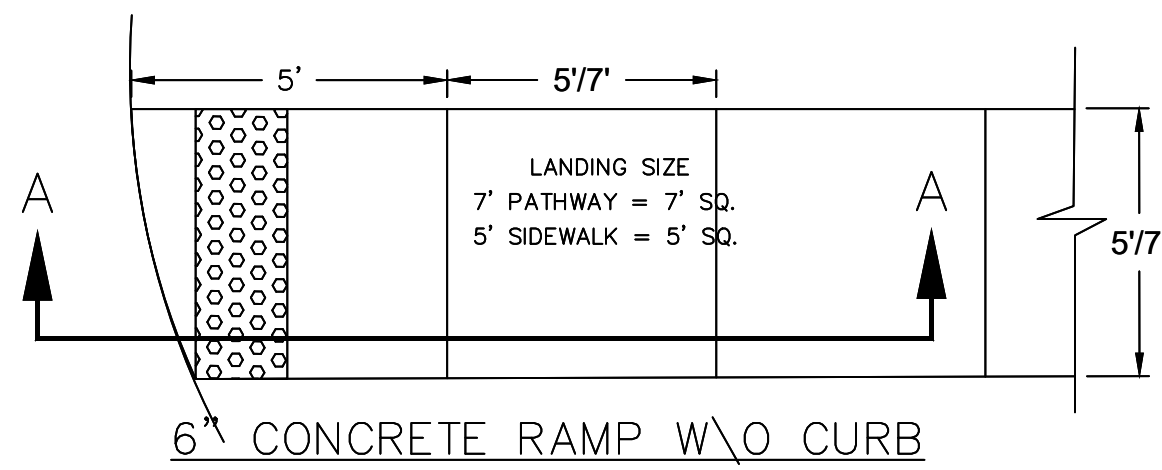


TYPICAL DETAIL
STA: 6+53 TO 8+64

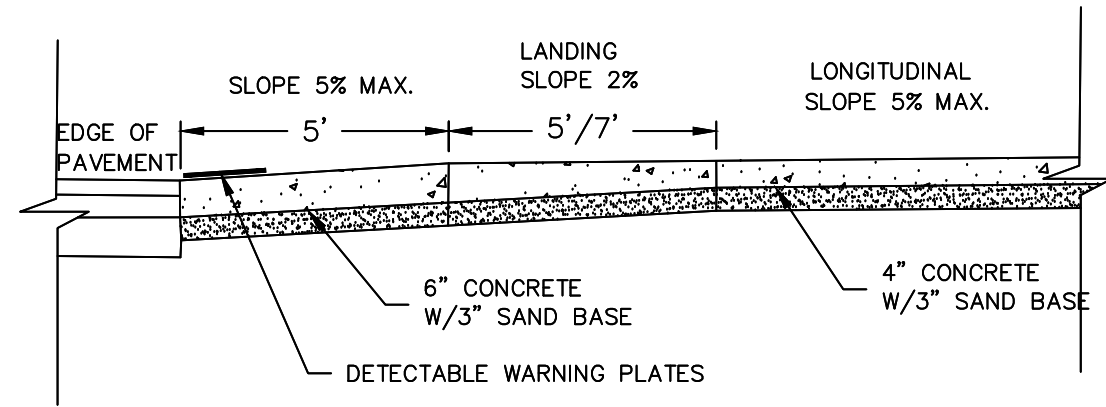


Meridian Charter Township Ingham County, Michigan PATHWAY		REVISIONS:	
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AMERICAN HOUSE PATHWAY 1673 HASLETT ROAD SE 1/4 SECTION 10, T4N, R1W, MERIDIAN TOWNSHIP, INGHAM COUNTY, MICHIGAN			
DRAWN BY: CH		CHECKED BY: YI	
		SHEET:	
		18 - TYPICAL SECTIONS	

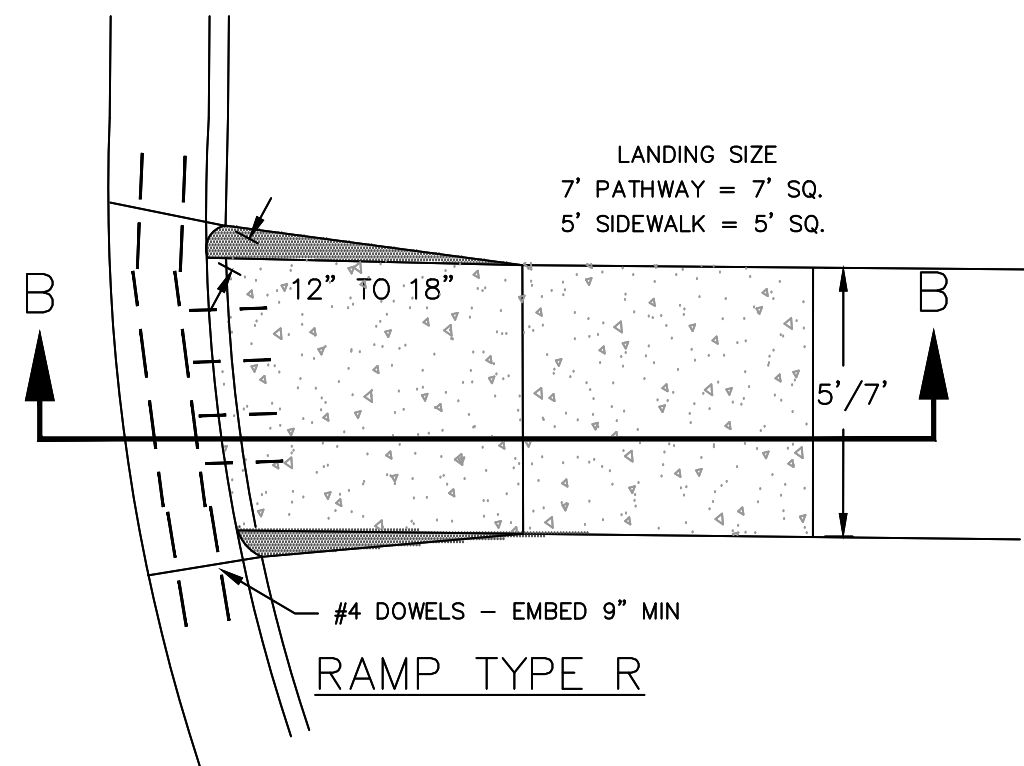
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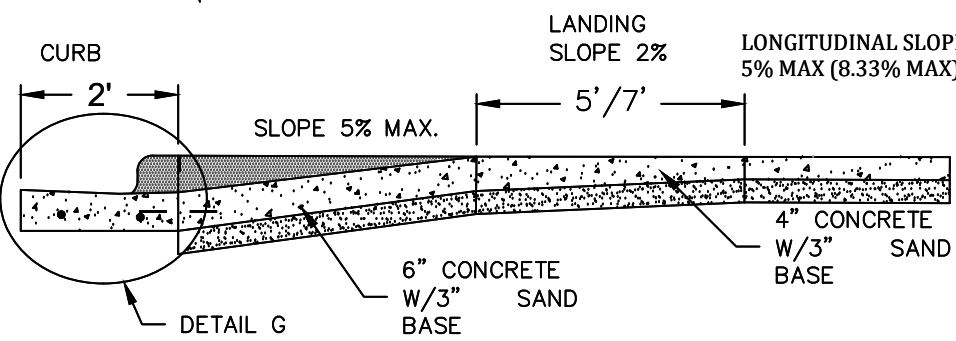
6" CONCRETE RAMP W/O CURB



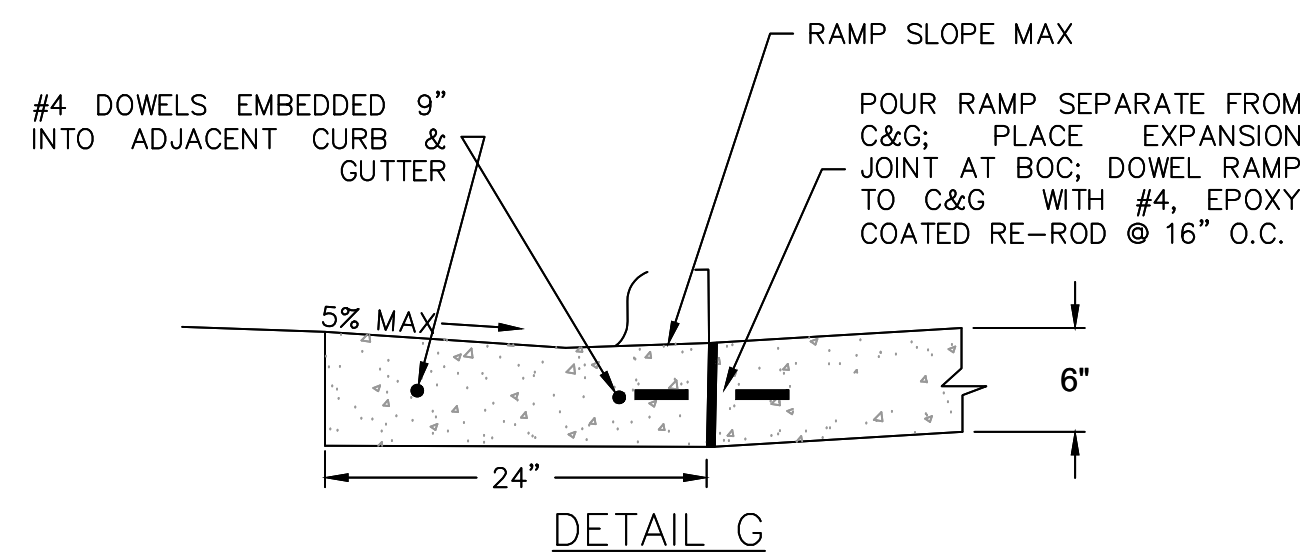
CROSS SECTION A-A



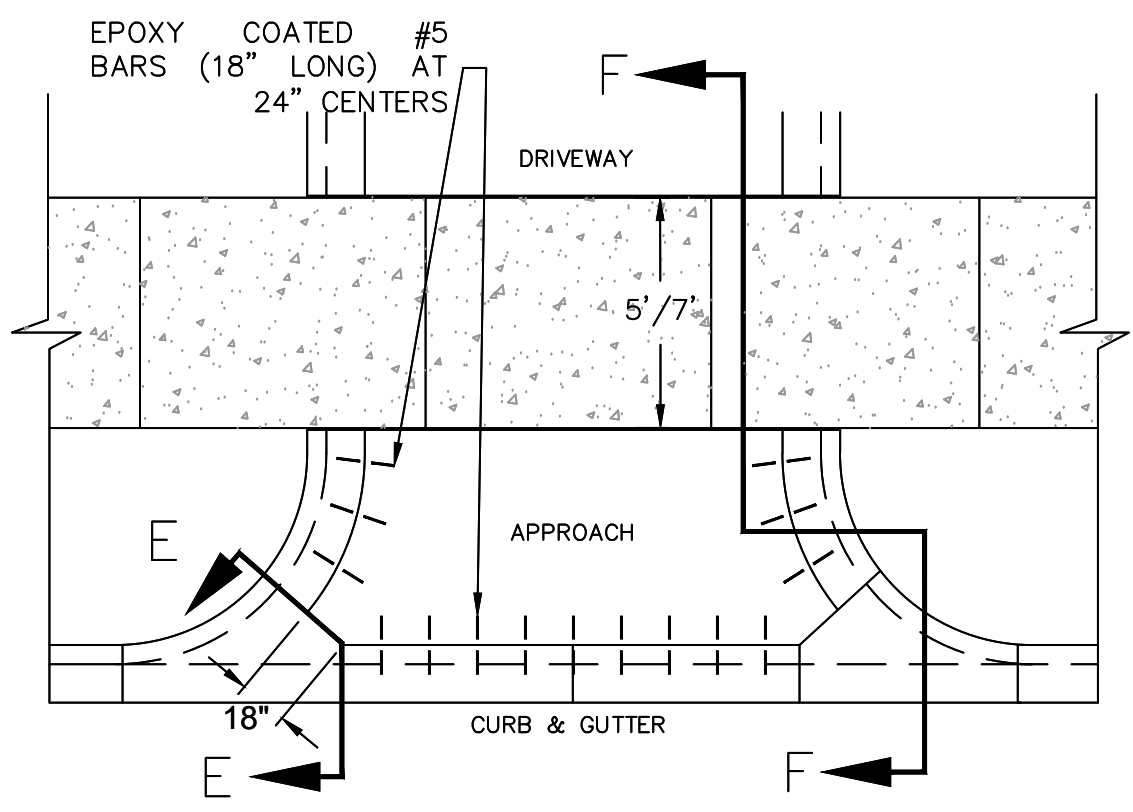
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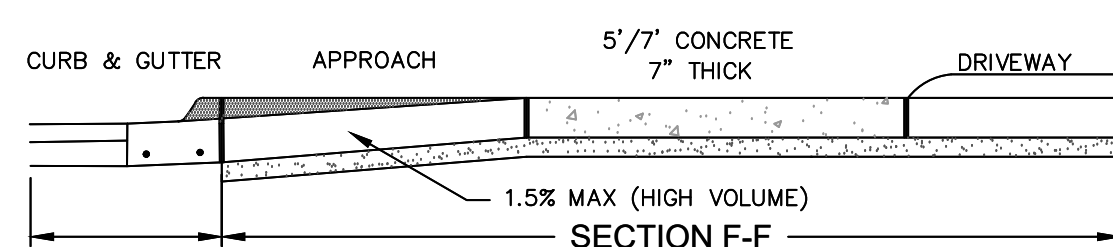
CROSS SECTION B-B



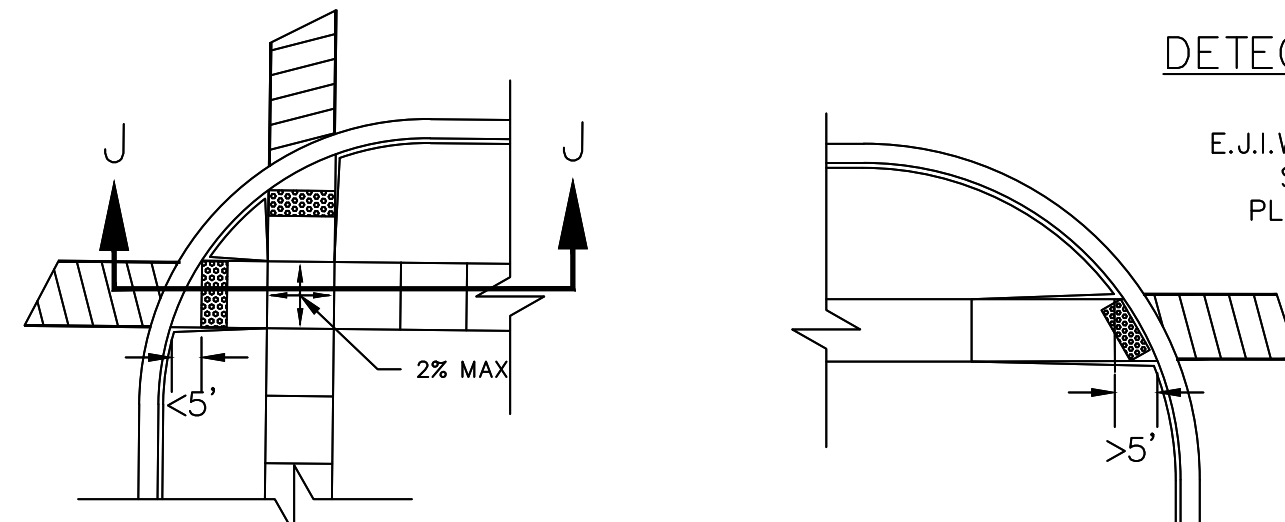
DETAIL G



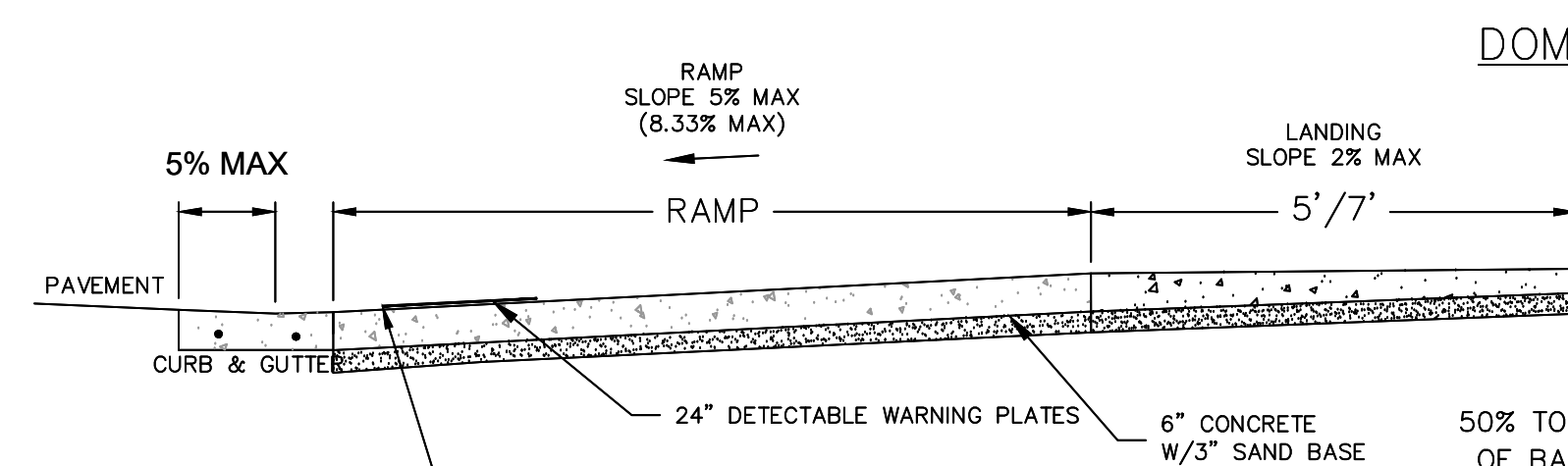
TYP. COMMERCIAL DRIVEWAY PLAN



SECTION E-E CROSS SECTIONS E-E; F-F



RAMPS LOCATED IN RADIUS

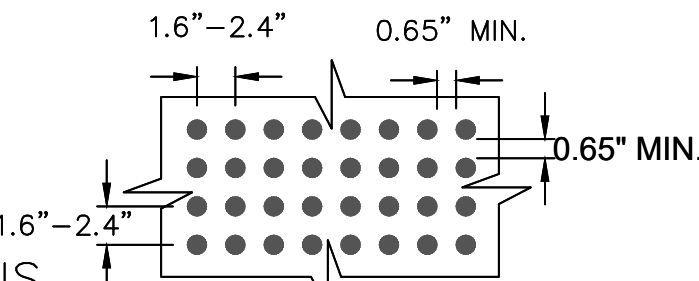


SECTION J-J

GRADE BREAKS AT THE TOP AND BOTTOM OF PERPENDICULAR CURB RAMPS SHALL BE PERPENDICULAR TO THE DIRECTION OF TRAVEL. AT LEAST ONE END OF THE BOTTOM GRADE BREAK SHALL BE AT THE BACK OF CURB.

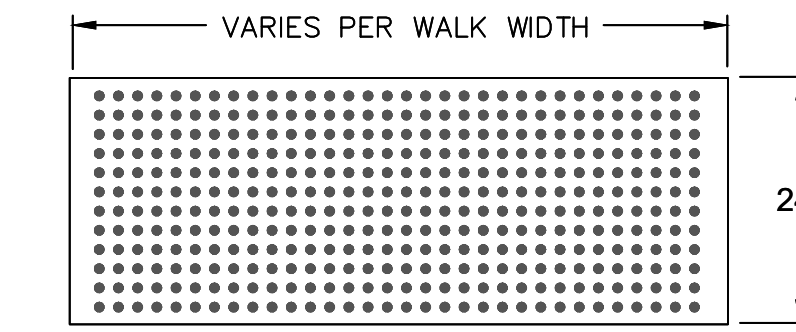
DETECTABLE WARNING DETAILS

E.J.I.W. 7005 DETECTABLE WARNING PLATE
SIZES AVAILABLE 12", 18" & 24"
PLATES MUST BE ASPHALTIC COATED

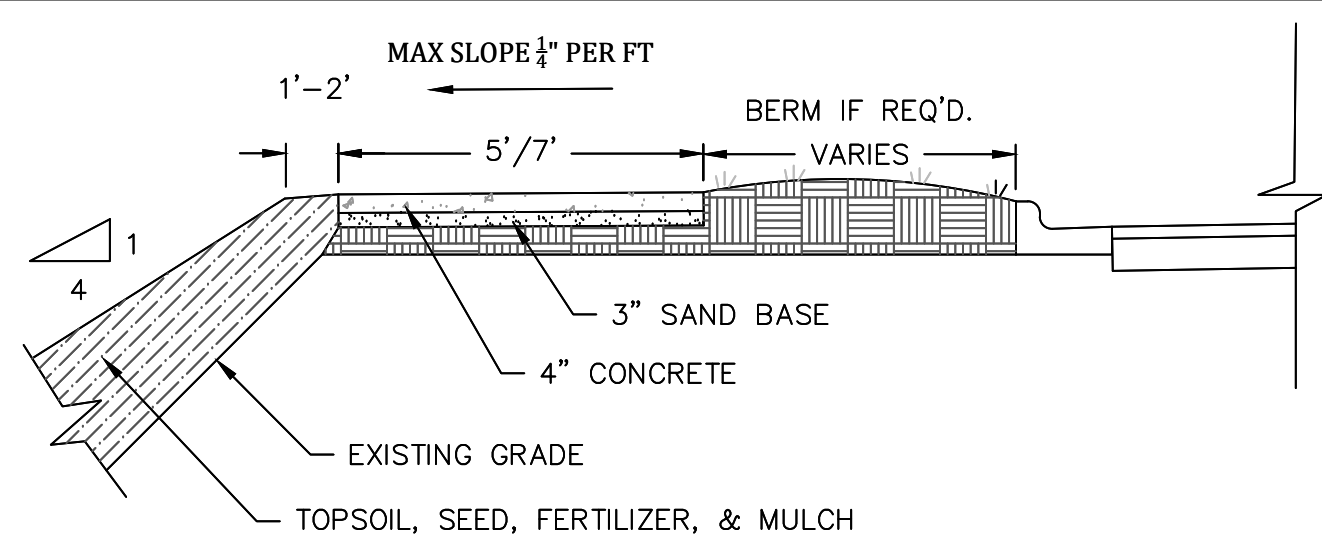


DOMES SPACING

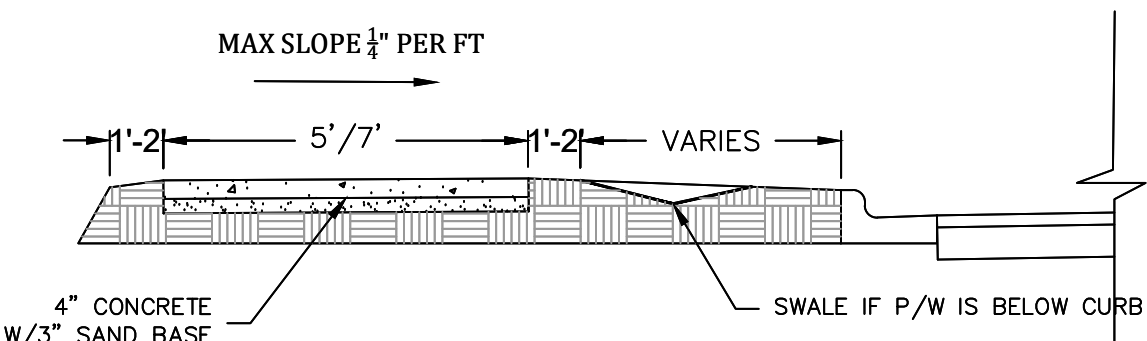
RAMP
PERPENDICULAR TO
TANGENT CURB



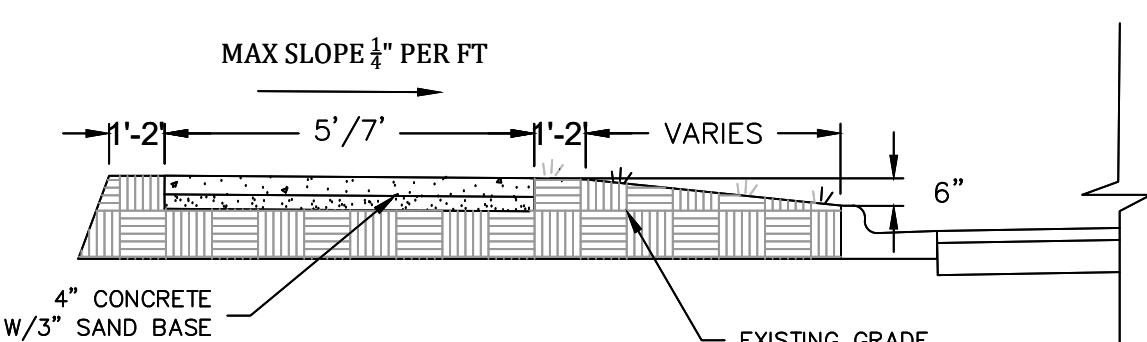
DOMES ALIGNMENT



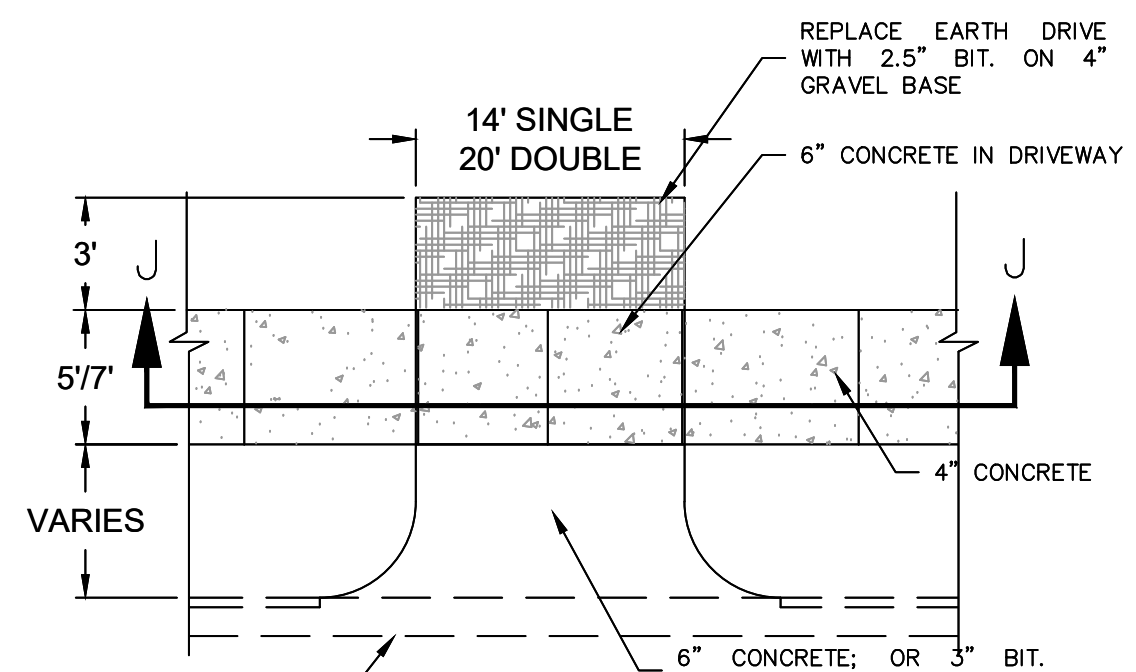
EMBANKMENT & BERM CROSS SECTION



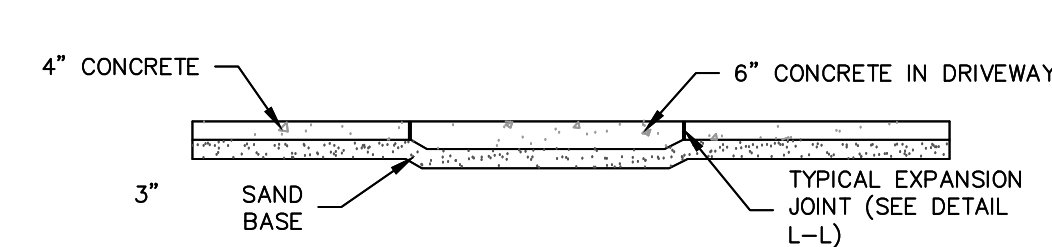
SWALE CROSS SECTION



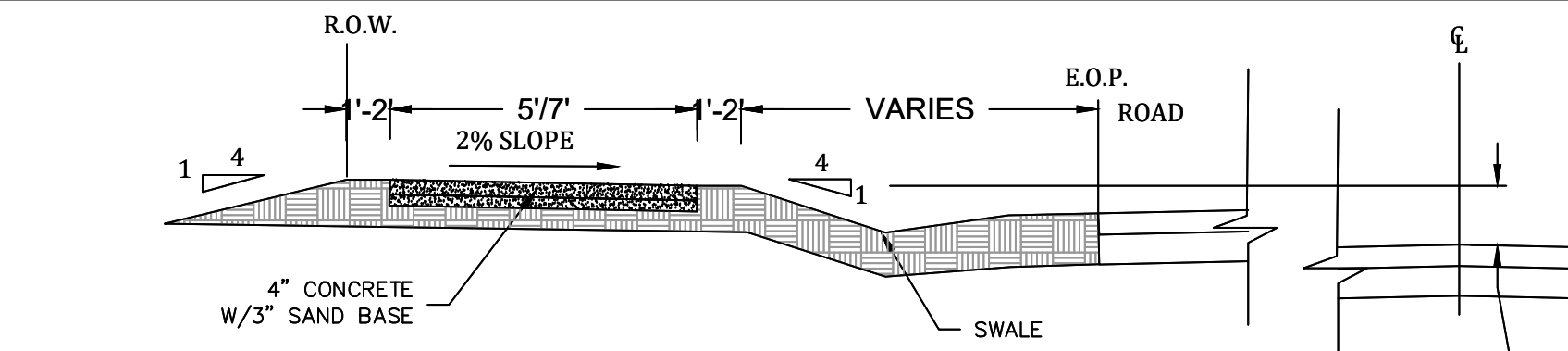
TYPICAL CROSS SECTION



TYP. RESIDENTIAL DRIVEWAY PLAN

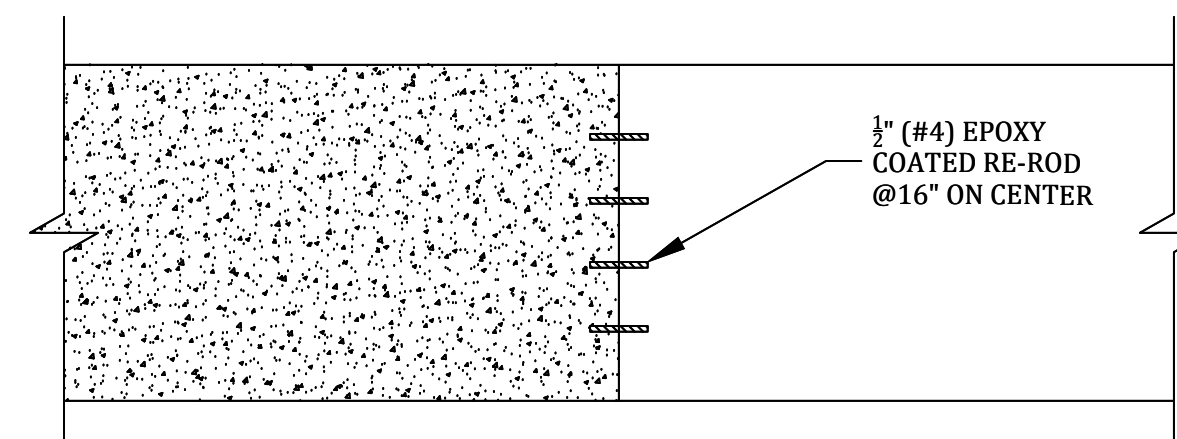


CROSS SECTIONS J-J



TYPICAL SECTION W/O CURB

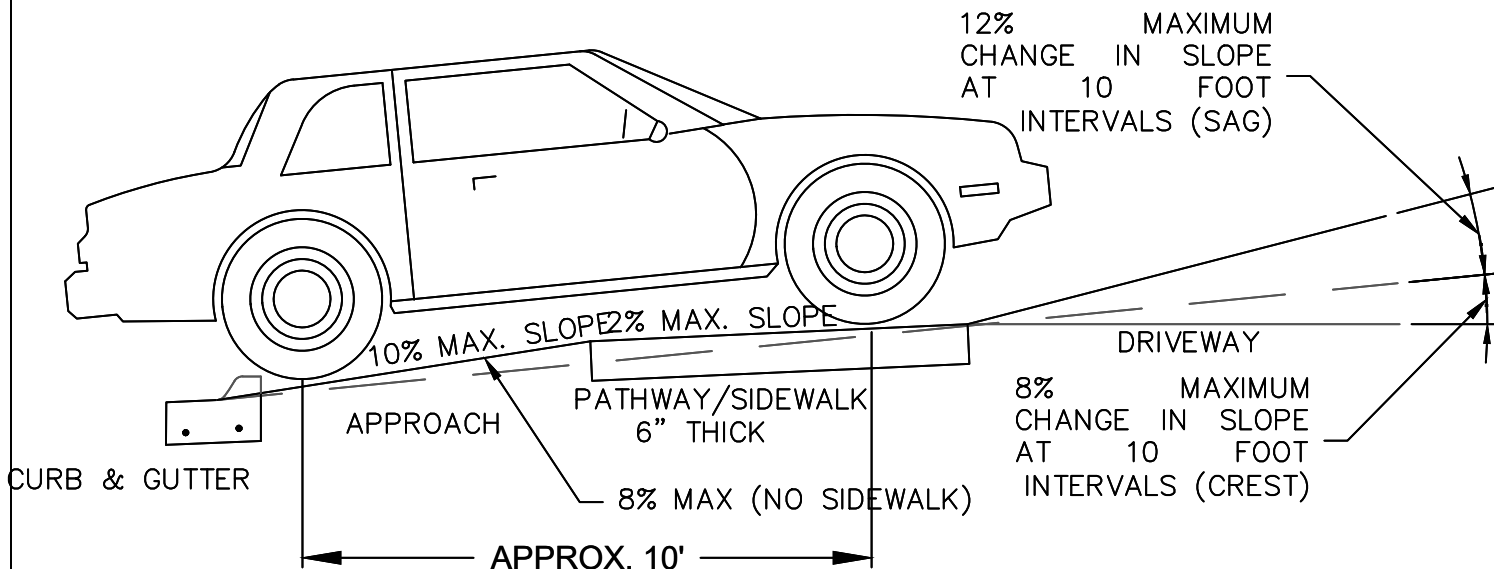
KEEP PATHWAY 1' HIGHER THAN ROAD CENTERLINE



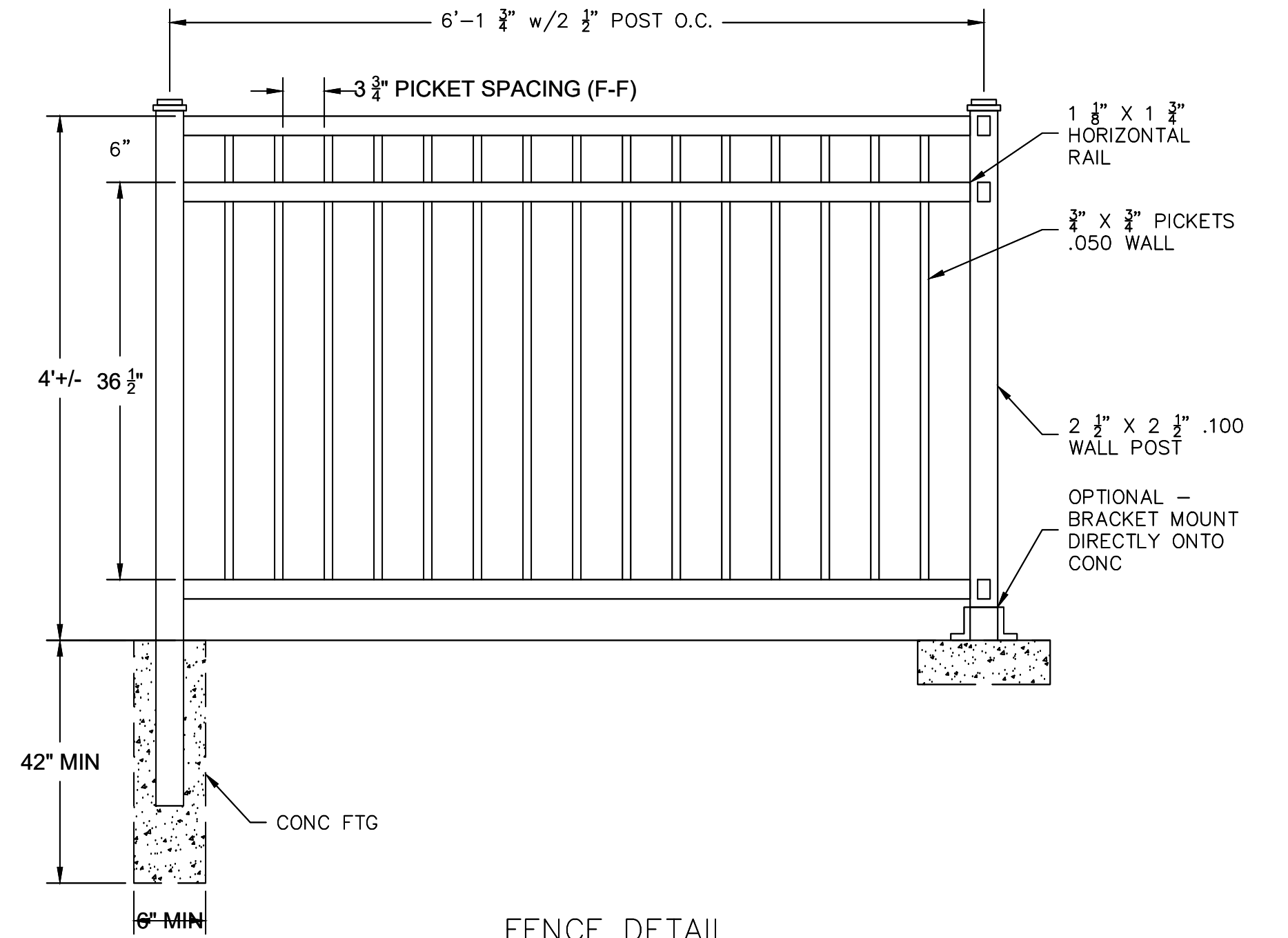
CONCRETE PINNING DETAIL

CROSS SECTION - (NO SCALE)

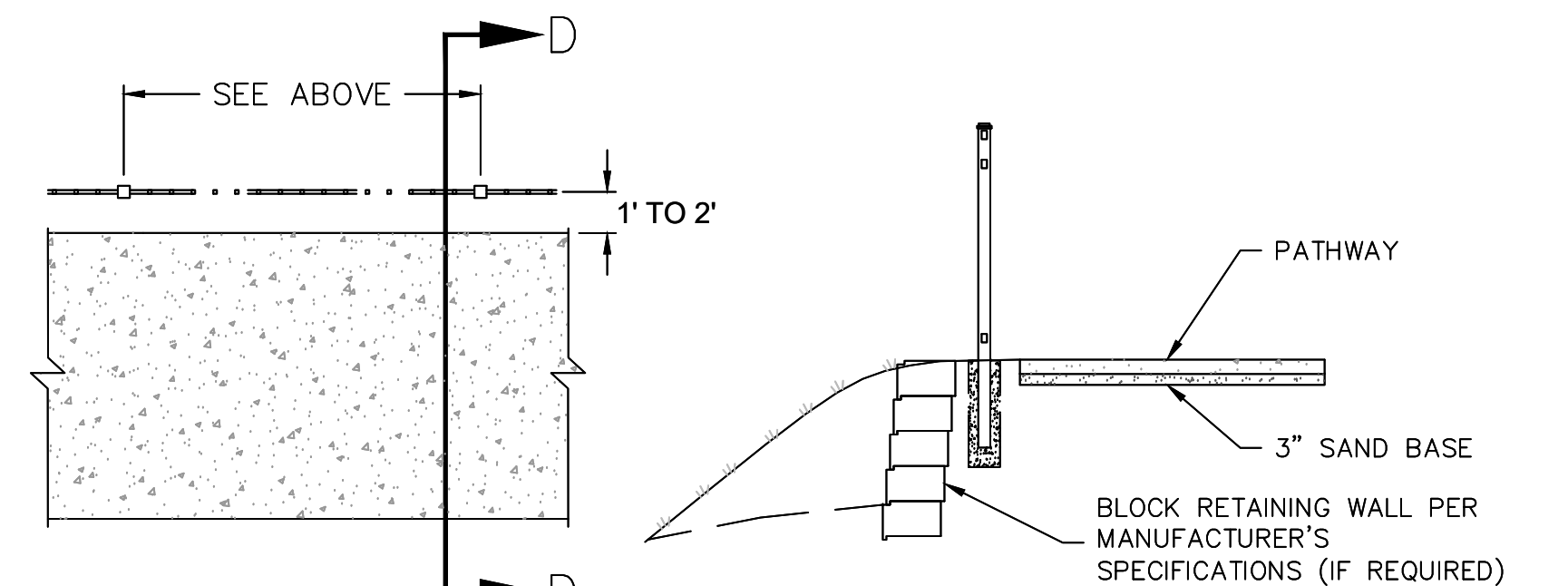
- GENERAL NOTES
1. SIDEWALKS/PATHWAYS SHALL BE 4" THICK CONCRETE EXCEPT AT DRIVEWAYS.
 2. SIDEWALKS/PATHWAYS THRU DRIVES SHALL BE: 6" (RESIDENTIAL); 7" (MULTI-RESIDENTIAL & COMMERCIAL)
 3. 3" OF COMPACTED SAND BASE SHALL BE PLACED UNDER ALL SIDEWALKS/PATHWAYS.
 4. ALL BITUMINOUS APRONS SHALL BE 2 1/2" THICK, UNLESS NOTED OTHERWISE
 5. PROPERTY IRONS SHALL BE MAINTAINED BY THE CONTRACTOR.
 6. ALL EXISTING CONCRETE AND BITUMINOUS TO BE REMOVED SHALL BE SAWCUT. ALL CONCRETE AND BITUMINOUS REMOVAL SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION.
 7. ALL AGGREGATE BASE SHALL BE 22A, 4" THICK.
 8. ALL TREE AND BUSH REMOVAL SHALL BE CONSIDERED PART OF SUB-GRADE PREPARATION.
 9. LOCATION OF NEW PLANT MATERIAL SHALL BE AS DIRECTED BY THE ENGINEER, AND SHALL BE INSTALLED IN ACCORDANCE WITH GUIDELINES ESTABLISHED BY THE A.A.O.N.
 10. ALL PLANT MATERIAL NOT MARKED FOR REMOVAL SHALL BE PROTECTED.
 11. BITUMINOUS DRIVES SHALL BE SAWCUT 18" ON EITHER SIDE OF PROPOSED PATHWAY.



RESIDENTIAL DRIVEWAY SLOPES



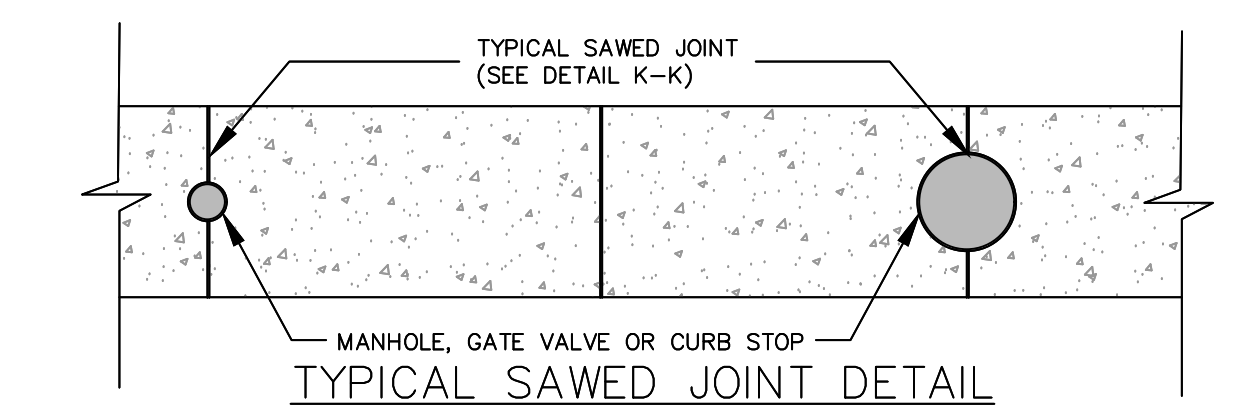
FENCE DETAIL



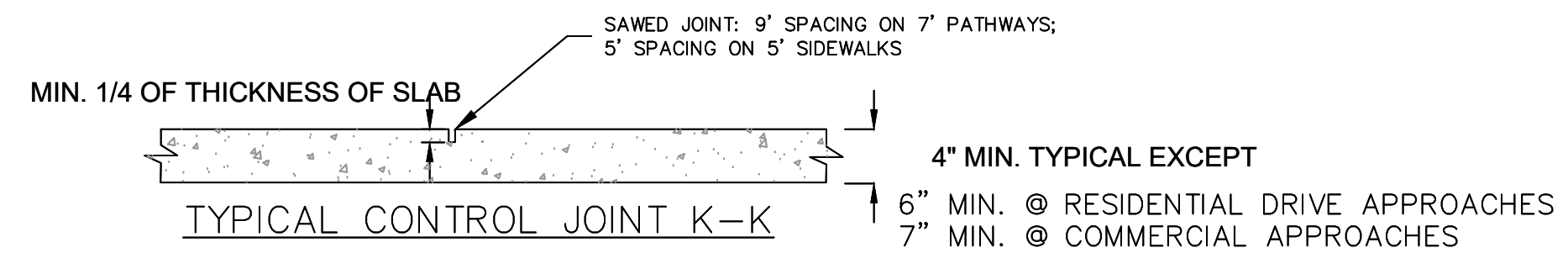
FENCE PLAN

FENCE CROSS SECTION D-D

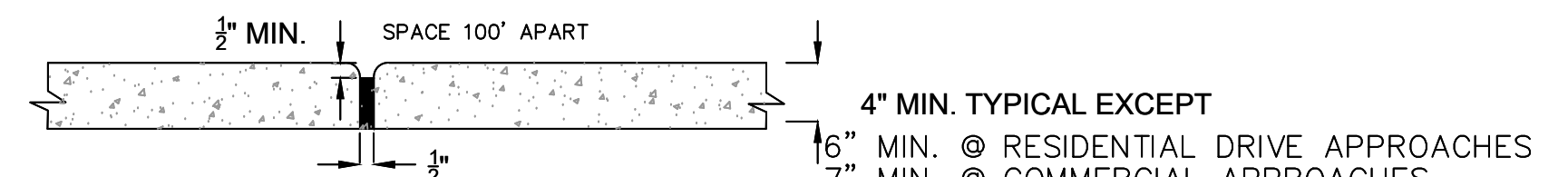
NOTE: FENCE POSTS CAN BE ANCHORED TO THE PATHWAY; THEN PATHWAY MUST BE WIDENED TO EIGHT FEET



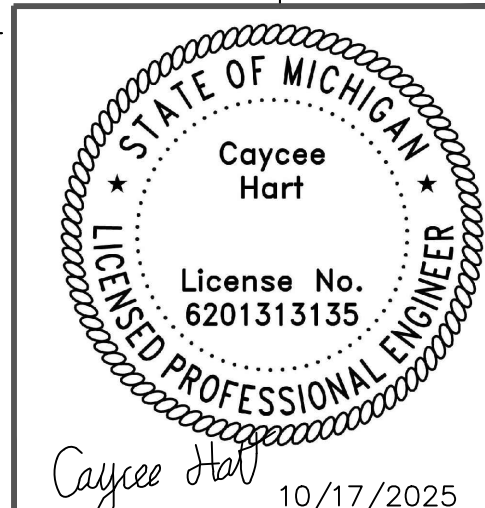
TYPICAL SAWED JOINT DETAIL



TYPICAL CONTROL JOINT K-K



TYPICAL EXPANSION JOINT L-L



10/17/2025

Meridian Charter Township
Ingham County, Michigan
PATHWAY

AMERICAN HOUSE PATHWAY
1673 HASLETT ROAD
SE 1/4 SECTION 10, T4N, R1W, MERIDIAN TOWNSHIP,
INGHAM COUNTY, MICHIGAN

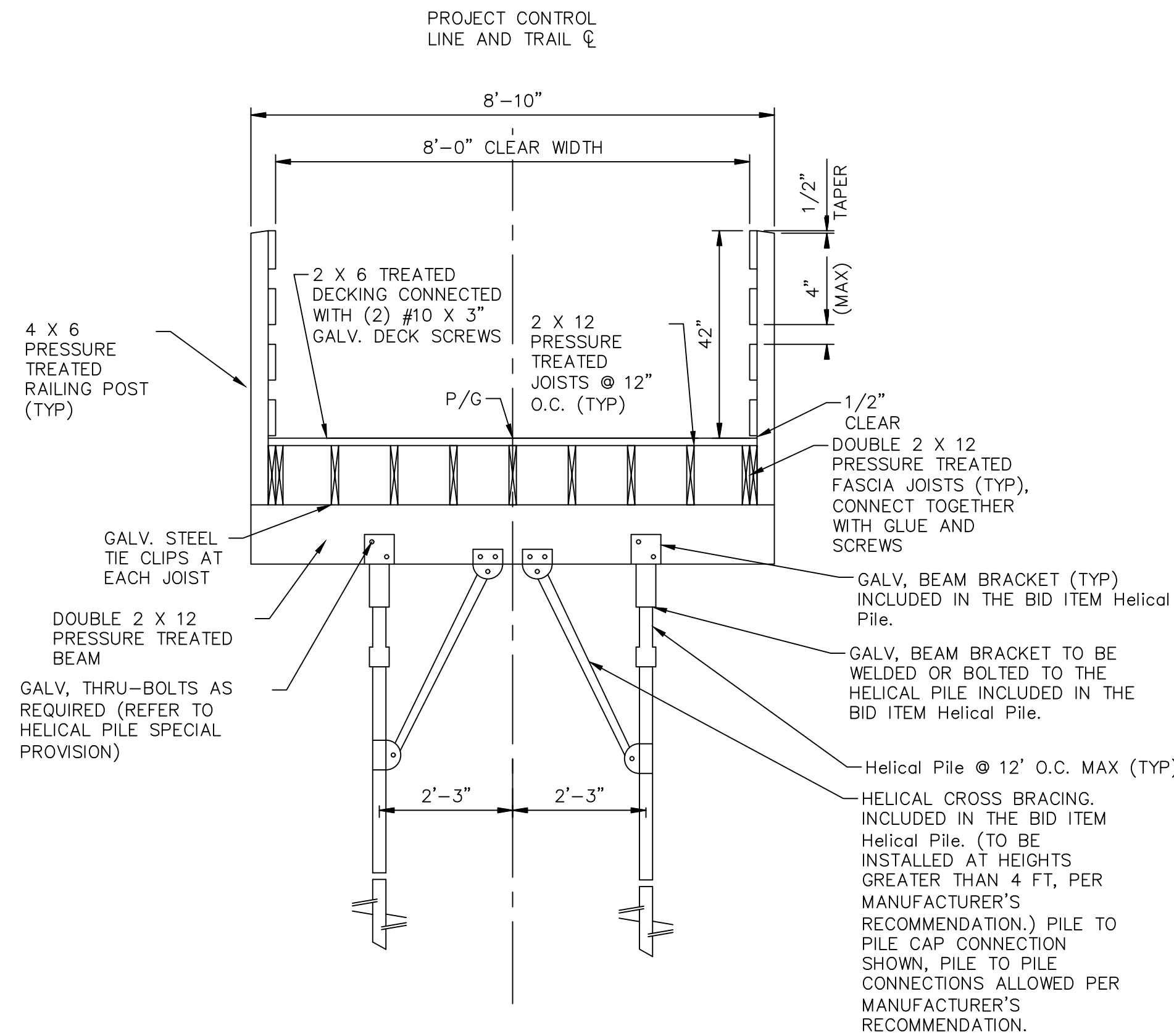
DRAWN BY: CH

CHECKED BY: YI

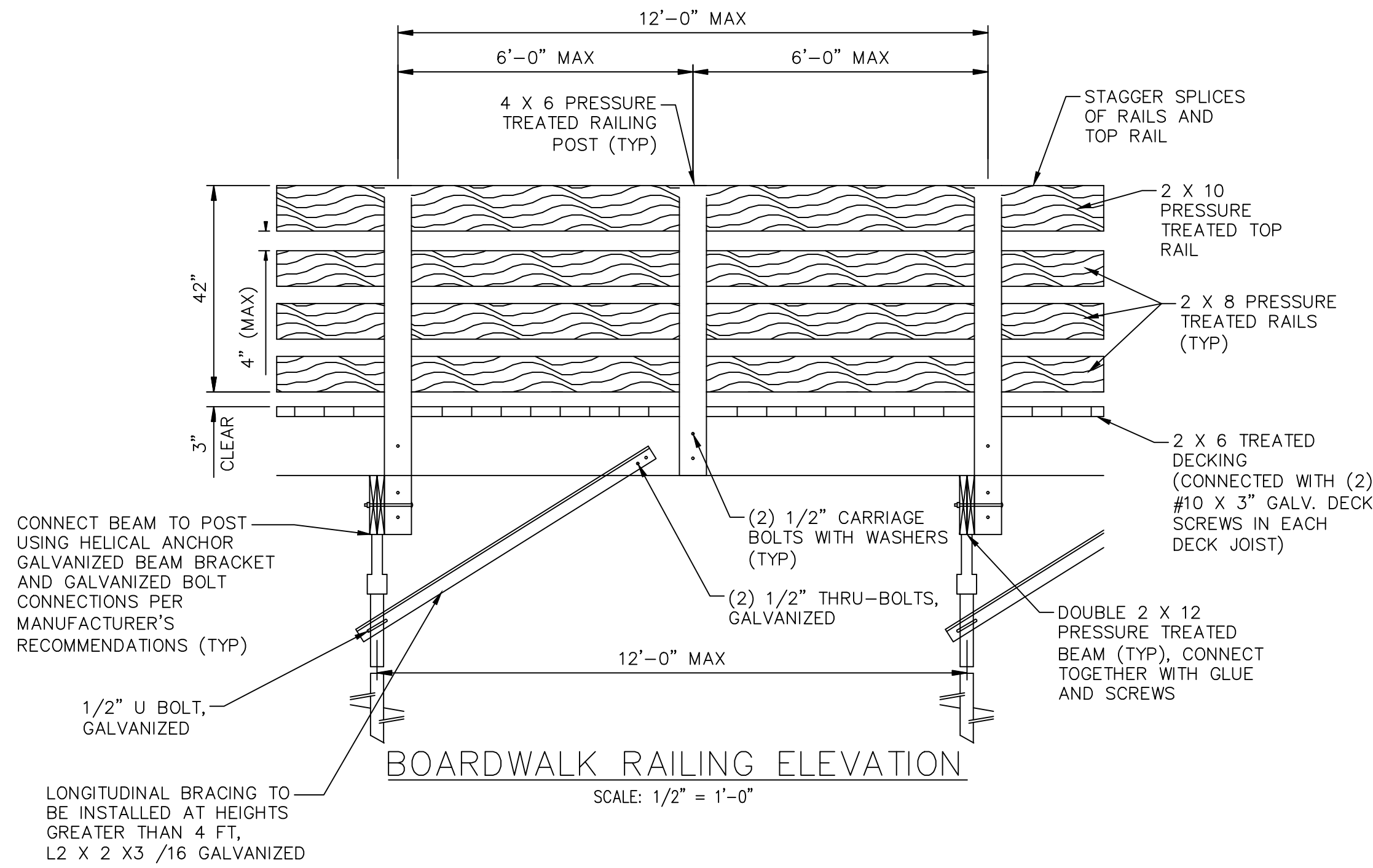
REVISIONS:		
DATE	BY:	COMMENTS:
10.03.25	CH	BID SET
10.17.25	CH	BID SET - SHEET PILE CONTRACT; ADD #1

SHEET:

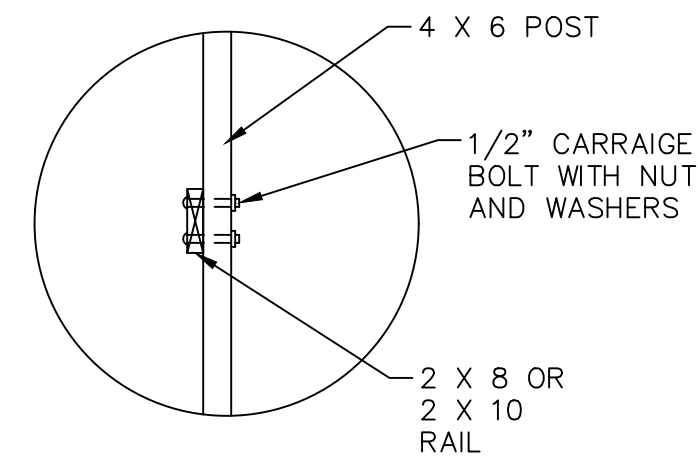
G:\Engineering & Public Works\Developments\Haslett 1673 American House\Pathway\CAD\Plan Sheets\Details.dwg



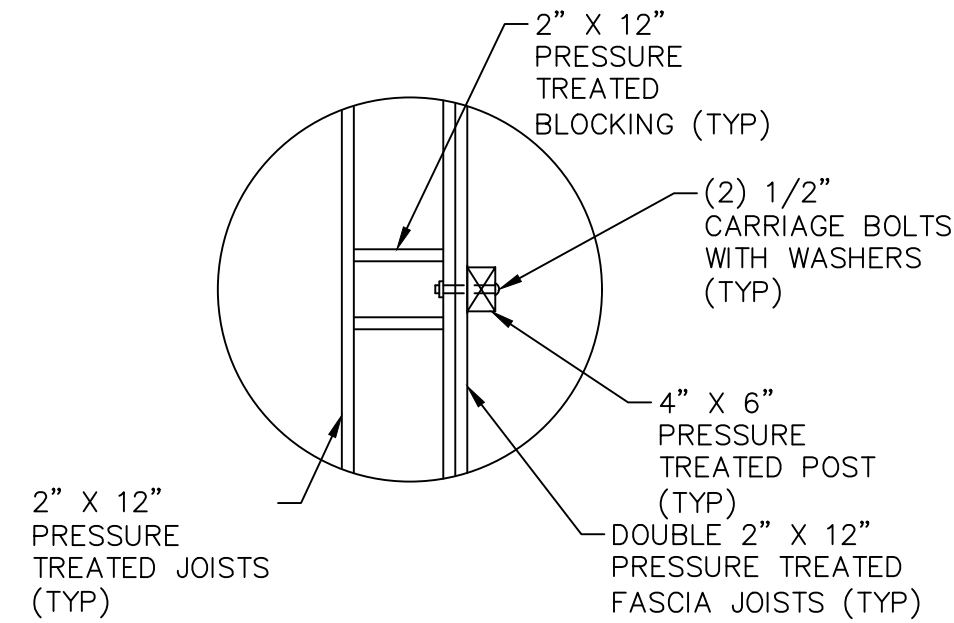
PROPOSED TYPICAL BOARDWALK SECTION



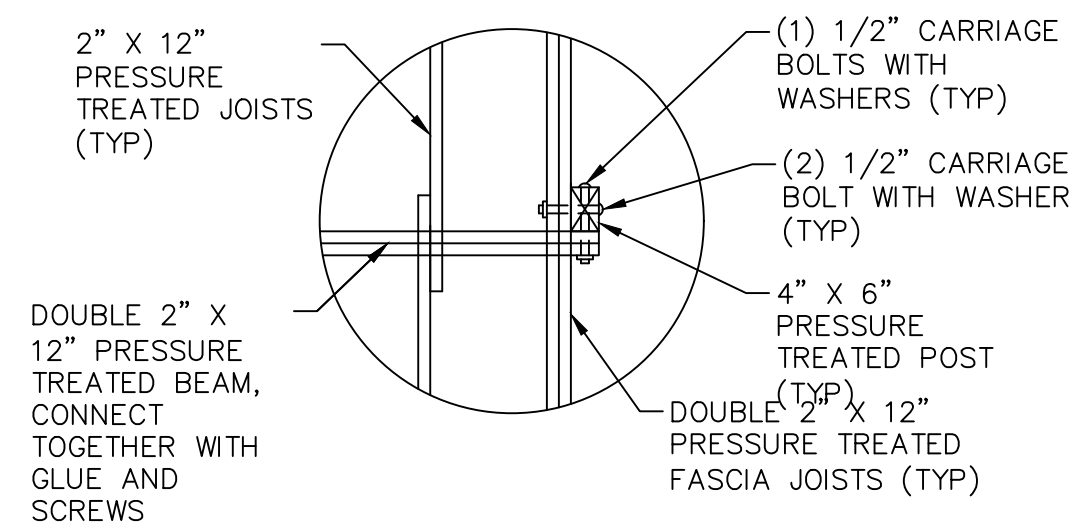
BOARDWALK RAILING ELEVATION



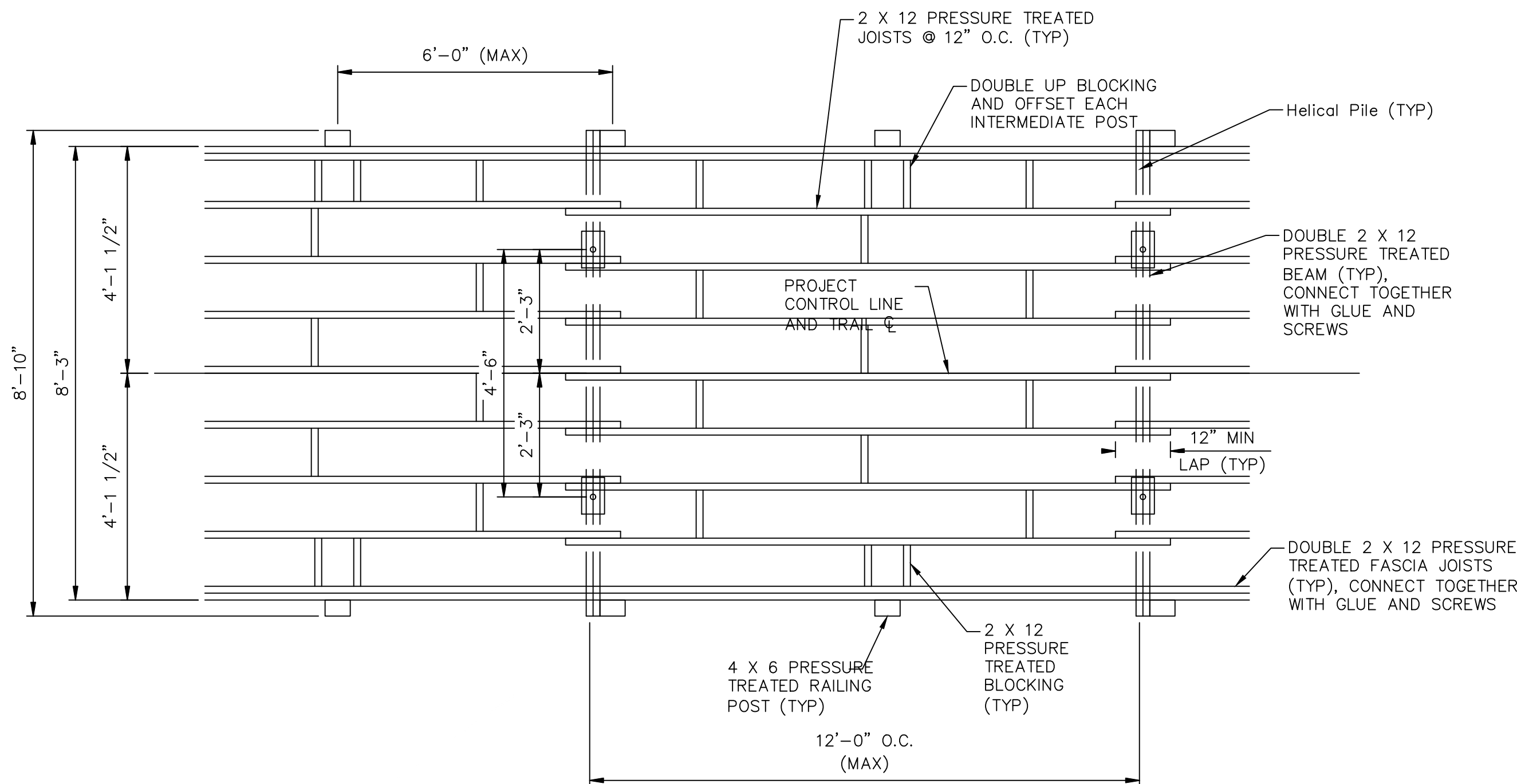
RAIL BOARD CONNECTION DETAIL
SCALE: 1/2" = 1'-0"



RAIL POST CONNECTION DETAIL
SCALE: 1/2" = 1'-0"



RAIL POST CONNECTION DETAIL - AT BEAM
SCALE: 1/2" = 1'-0"



BOARDWALK FRAMING PLAN

SCALE: 1/2" = 1'-0"

BOARDWALK NOTES:

THE DESIGN OF THIS STRUCTURE IS BASED ON CURRENT AASHTO LRFD BRIDGE DESIGN SPECIFICATION PEDESTRIAN LOADING OF 90 PSF AND A MAINTENANCE VEHICLE H5 LOADING, NOT ACTING CONCURRENTLY.

THE DESIGN OF THE STRUCTURAL MEMBERS IS BASED ON MATERIAL OF THE FOLLOWING GRADES AND STRESSES:

WOOD DECKING: SOUTHERN PINE NO. 2 TREATED $f_{b0} = 1100$ PSI
WOOD JOISTS: SOUTHERN PINE NO. 1 TREATED $f_{b0} = 1000$ PSI
WOOD PIER CAP: SOUTHERN PINE NO. 1 TREATED $f_{b0} = 1000$ PSI
WOOD RAILING: SOUTHERN PINE NO. 2 TREATED $f_{b0} = 1350$ PSI
WOOD BLOCKING: SOUTHERN PINE NO. 2 TREATED $f_{b0} = 1100$ PSI

ALL WORK AND MATERIALS REQUIRED TO INSTALL TIMBER BOARDWALK WILL BE PAID FOR AS Structure, Timber, Boardwalk.

STRUCTURAL TIMBER AND LUMBER FOR ALL ELEMENTS SHALL BE TREATED IN ACCORDANCE WITH SECTION 912 OF THE 2020 MDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION.

ALL LUMBER SHALL BE IDENTIFIED BY THE GRADE MARK OF OR CERTIFICATE OF INSPECTING AGENCY.

ALL LUMBER SHALL BE SOUTHERN YELLOW PINE, GRADE OF LUMBER AS INDICATED IN THE SPECIFICATIONS WITH PRESERVATION TREATMENT WITH RETENTION LEVEL OF 0.4 (LB/CU.FT.) OF ACQ-B.

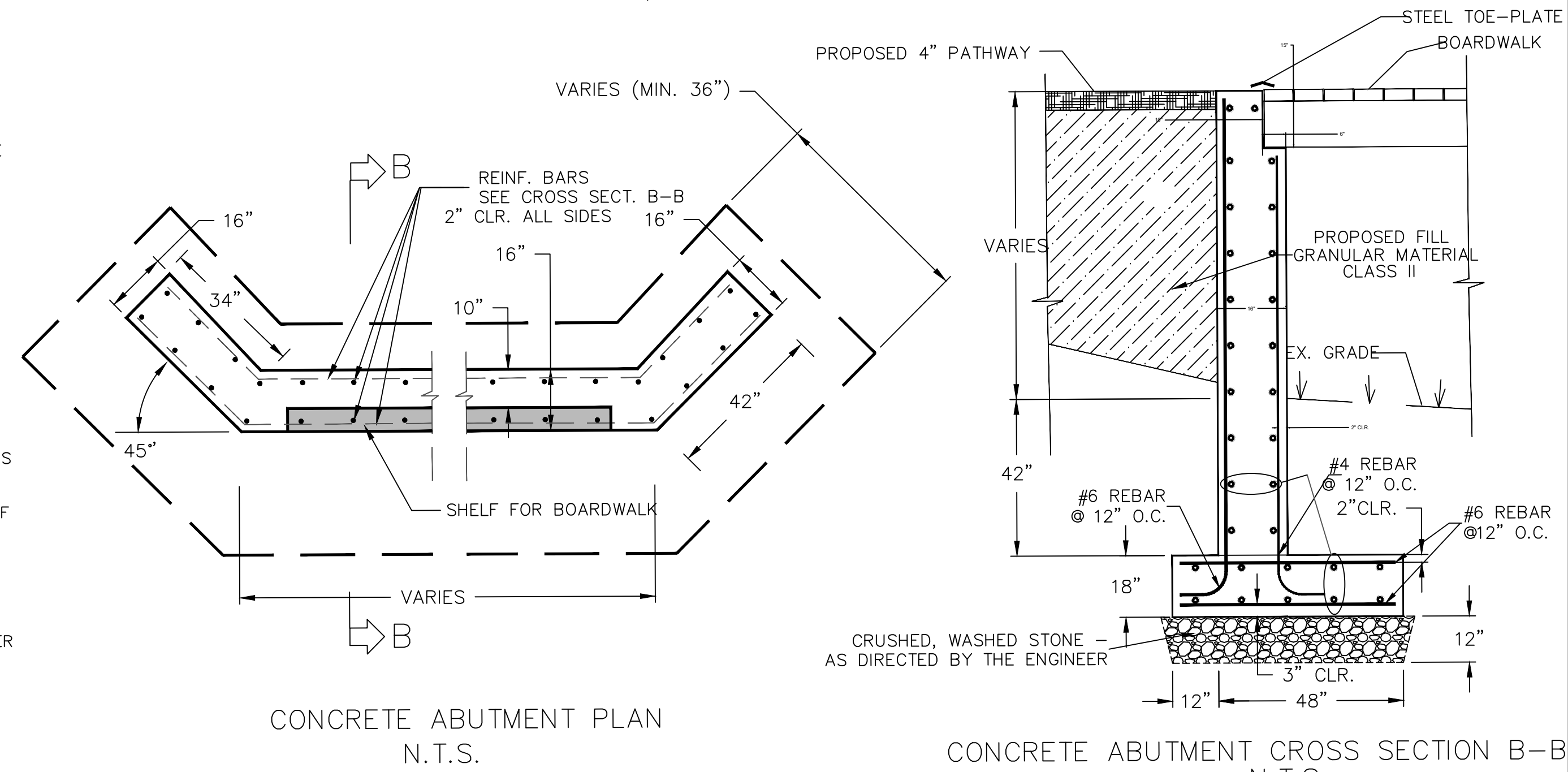
ALL FASTENERS INCLUDING SCREWS, BOLTS, NUTS AND WASHERS SHALL BE PER SECTION 908 OF THE 2020 MDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION. ALL SCREWS, BOLTS, AND NAILS SHALL BE HOT-DIPPED GALVANIZED STEEL.

ALL METAL HARDWARE SHALL BE HOT-DIPPED GALVANIZED STEEL.

VERTICAL AND BATTERED HELICAL PILES SHALL BE INSTALLED TO A MINIMUM ULTIMATE PILE CAPACITY OF 9 KIPS.

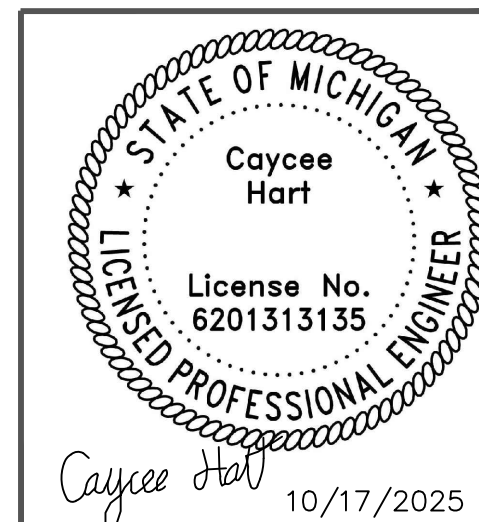
THE MINIMUM PILE PENETRATION IS 10 FEET BELOW THE EXISTING GROUND.

DESIGN HELICAL PILE SYSTEM FOR A DESIGN LIFE OF 50 YEARS.



CONCRETE ABUTMENT PLAN
N.T.S.

CONCRETE ABUTMENT CROSS SECTION B-B
N.T.S.



Meridian Charter Township
Ingham County, Michigan
PATHWAY

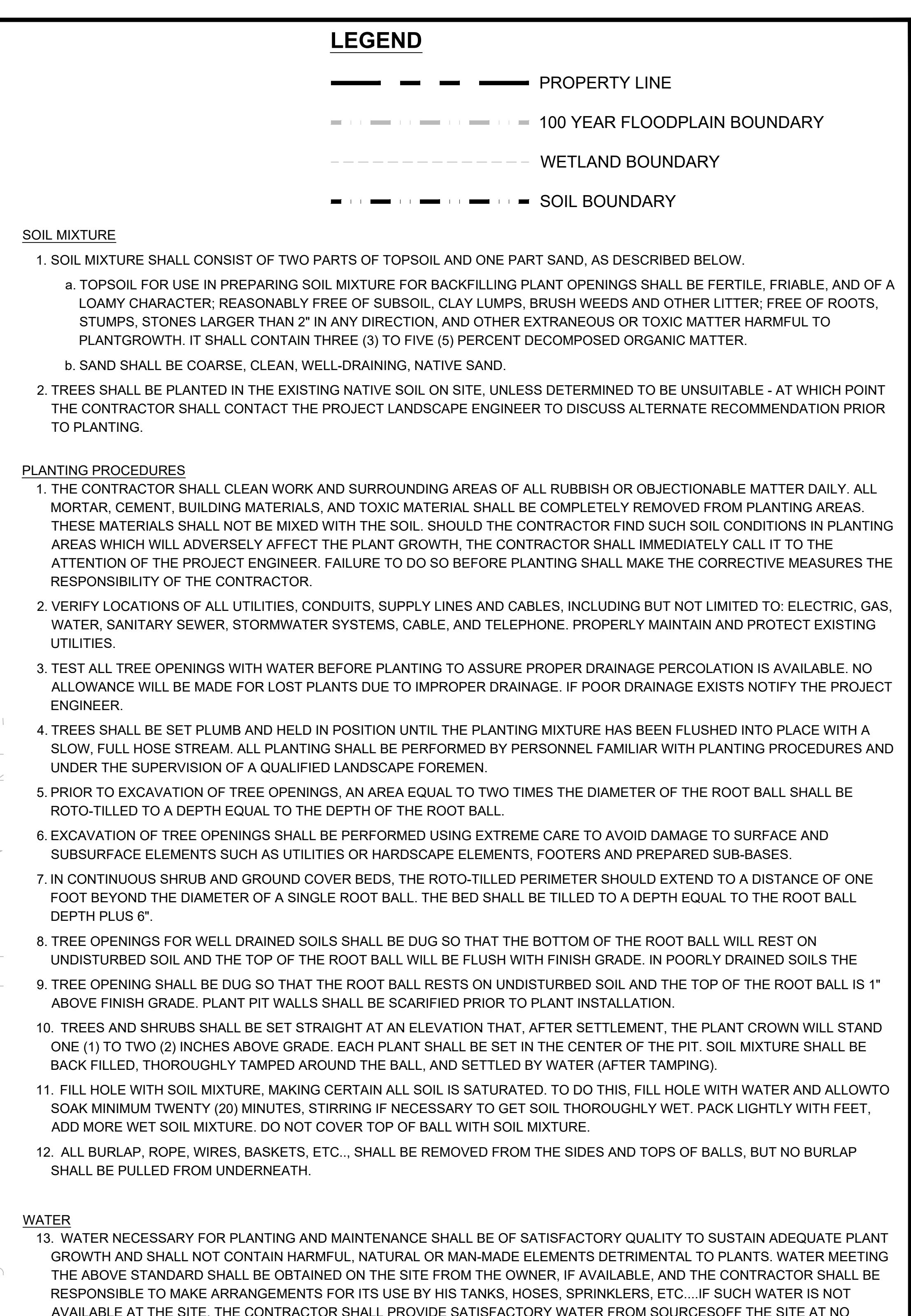
AMERICAN HOUSE PATHWAY
1673 HASLETT ROAD
SE 1/4 SECTION 10, T4N, R1W, MERIDIAN TOWNSHIP,
INGHAM COUNTY, MICHIGAN

DRAWN BY: CH

CHECKED BY: YI

REVISIONS:		
DATE	BY:	COMMENTS:
10.03.25	CH	BID SET
10.17.25	CH	BID SET - SHEET PILE CONTRACT; ADD #1

SHEET:



LANDSCAPE NOTES:

1. *A TOTAL OF 12 TREES SHALL BE PLANTED ON MERIDIAN TOWNSHIP'S PROPERTY.
2. TWO OPTIONS FOR TREE SPECIES ARE INCLUDED IN THE TREE SCHEDULE. THE CONTRACTOR MAY SELECT ONE OF THE SPECIES TO BE PLANTED BASED BEST AVAILABILITY / PRICE.
3. THE LOCATION OF THE PLANTINGS ARE SHOWN CONCEPTUALLY ON THIS PLAN. THE CONTRACTOR SHOULD MAKE REASONABLE EFFORTS TO PLANT THE TREES A MINIMUM OF 10' FROM OTHER PLANTINGS, EXISTING TREES, AND THE EDGE OF THE PATHWAY.

SOILS:

HgtahA - Houghton Muck, 0 to 1 percent slopes

UtB - Urban Land-Marlette Complex, 2 to 12 percent slopes



WOLVERINE PIPE LINE COMPANY 219-844-9510

