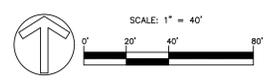
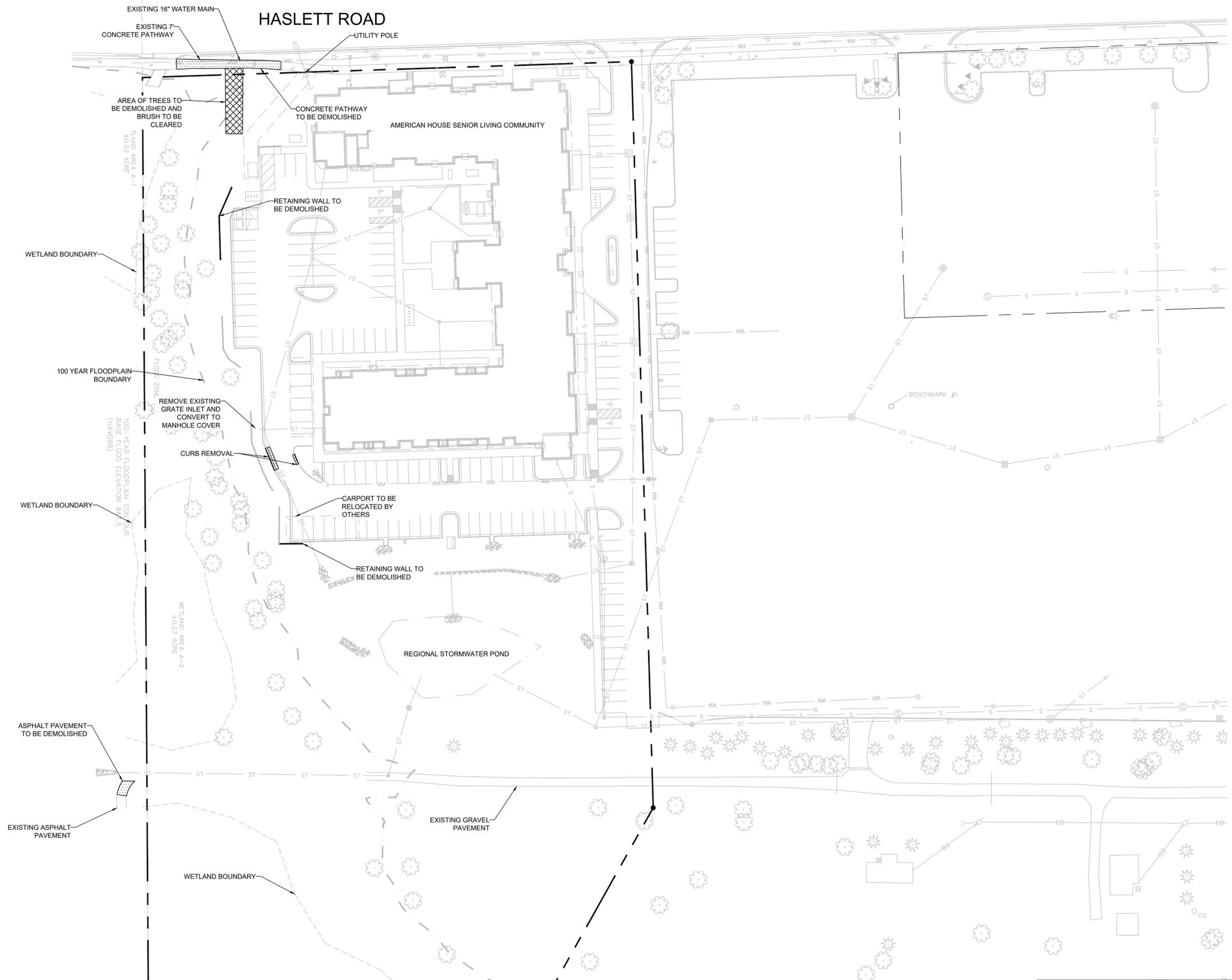




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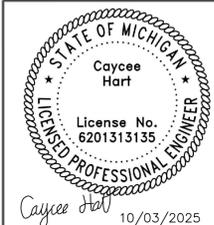
**LEGEND**

-  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



**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
SHEET:		

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HASLETT ROAD



LEGEND

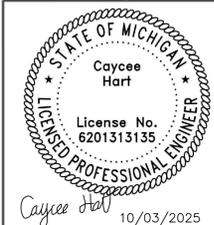
- PROPERTY LINE
- 100 YEAR FLOODPLAIN BOUNDARY
- WETLAND BOUNDARY
- EXISTING CONTOUR
- PROPOSED CONTOUR
- LIMITS OF DISTURBANCE
- SOIL BOUNDARY
- SILT FENCE
- CONSTRUCTION ENTRANCE
- INLET PROTECTION

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



**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

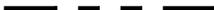
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REVISIONS:		
DATE	BY:	COMMENTS:
10.03.25	CH	BID SET
SHEET:		

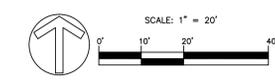
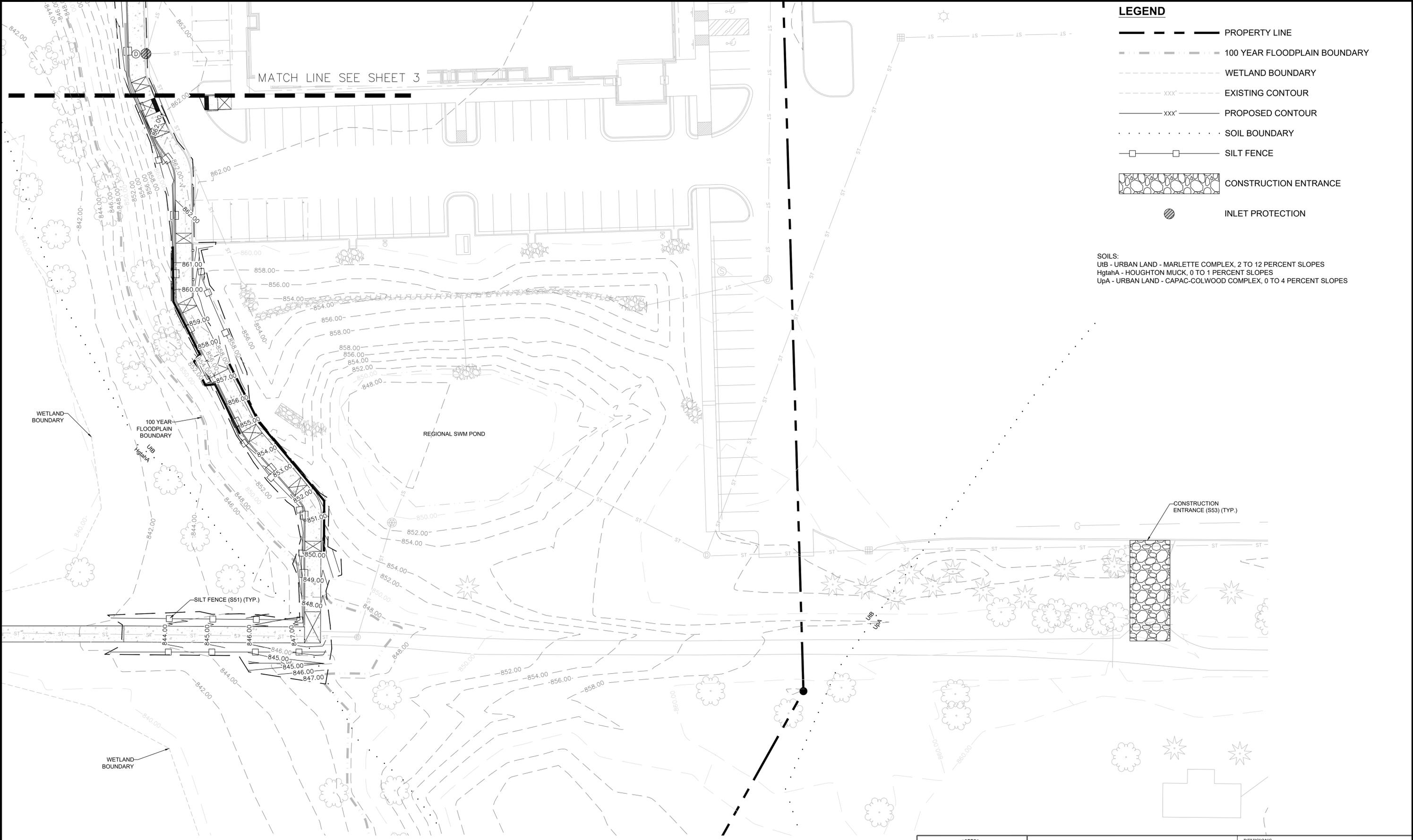
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MATCH LINE SEE SHEET 3

**LEGEND**

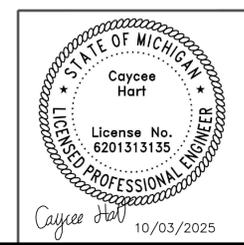
-  PROPERTY LINE
-  100 YEAR FLOODPLAIN BOUNDARY
-  WETLAND BOUNDARY
-  XXX' EXISTING CONTOUR
-  XXX' PROPOSED CONTOUR
-  SOIL BOUNDARY
-  SILT FENCE
-  CONSTRUCTION ENTRANCE
-  INLET PROTECTION

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



**Call 811 before you dig.**

WOLVERINE PIPE LINE COMPANY 219-844-9510



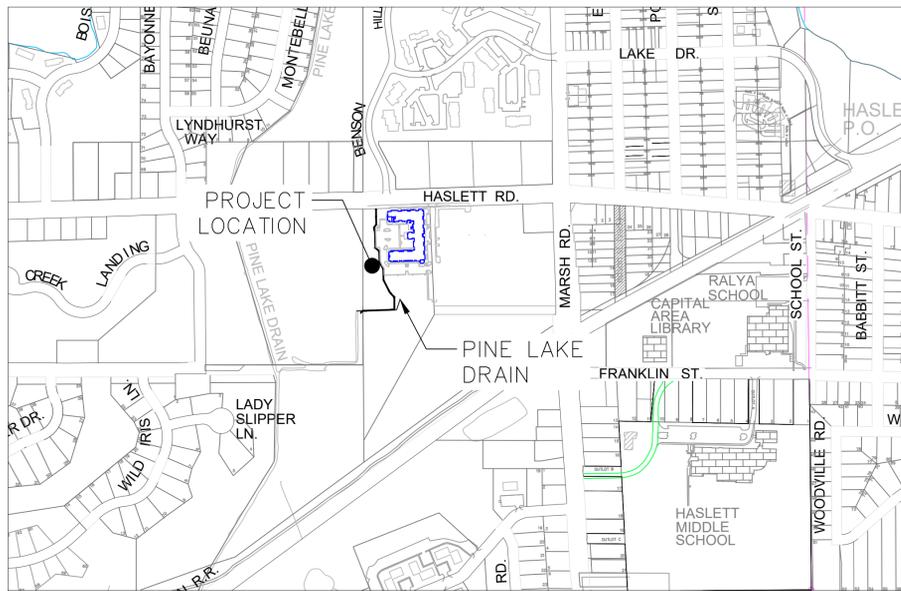
Meridian Charter Township  
 Ingham County, Michigan

**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
SHEET:		



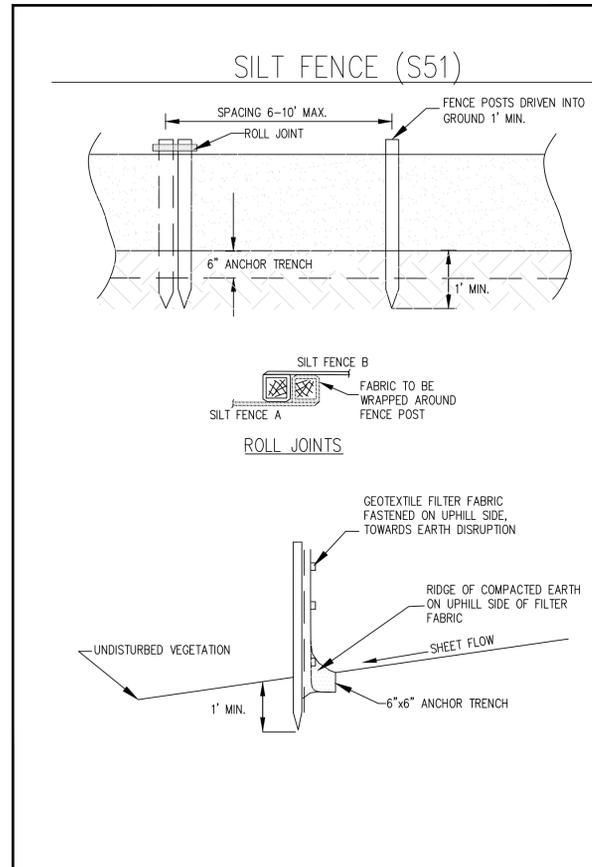
THE PATHWAY PROJECT IS LOCATED 0' FROM THE PINE LAKE DRAIN

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)

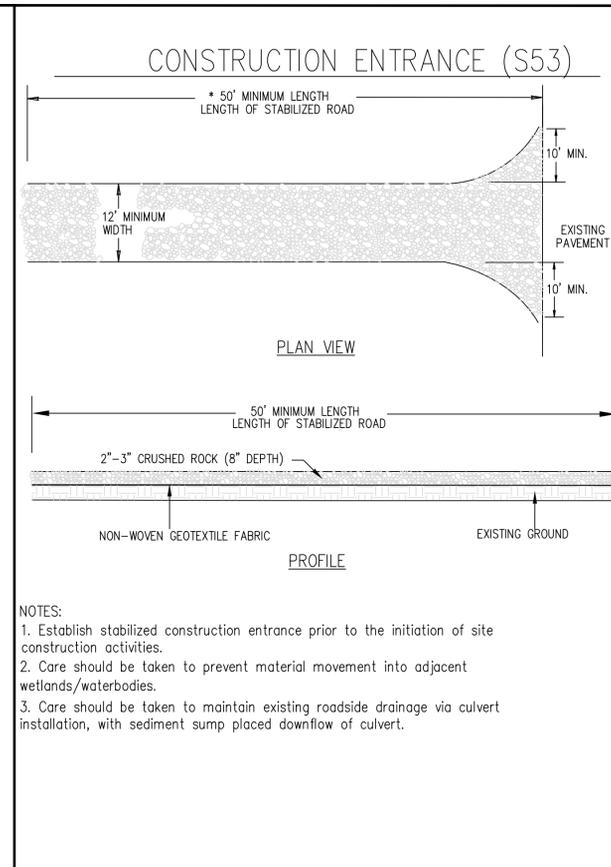
**SOIL EROSION & SEDIMENTATION CONTROL NOTES**

- 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.



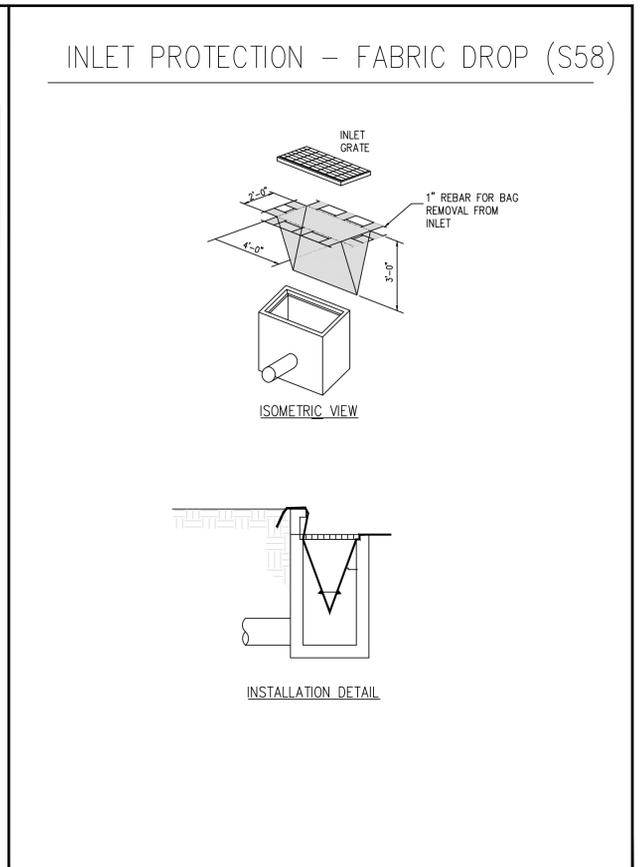
**SILT FENCE MAINTENANCE & INSPECTIONS**

- 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.



**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 TRACK-OUT. 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.

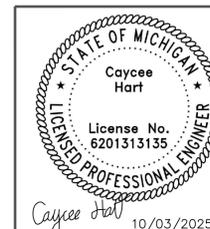


**INLET PROTECTION MAINTENANCE & INSPECTIONS**

- 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.

**Call 811 before you dig.**

WOLVERINE PIPE LINE COMPANY 219-844-9510



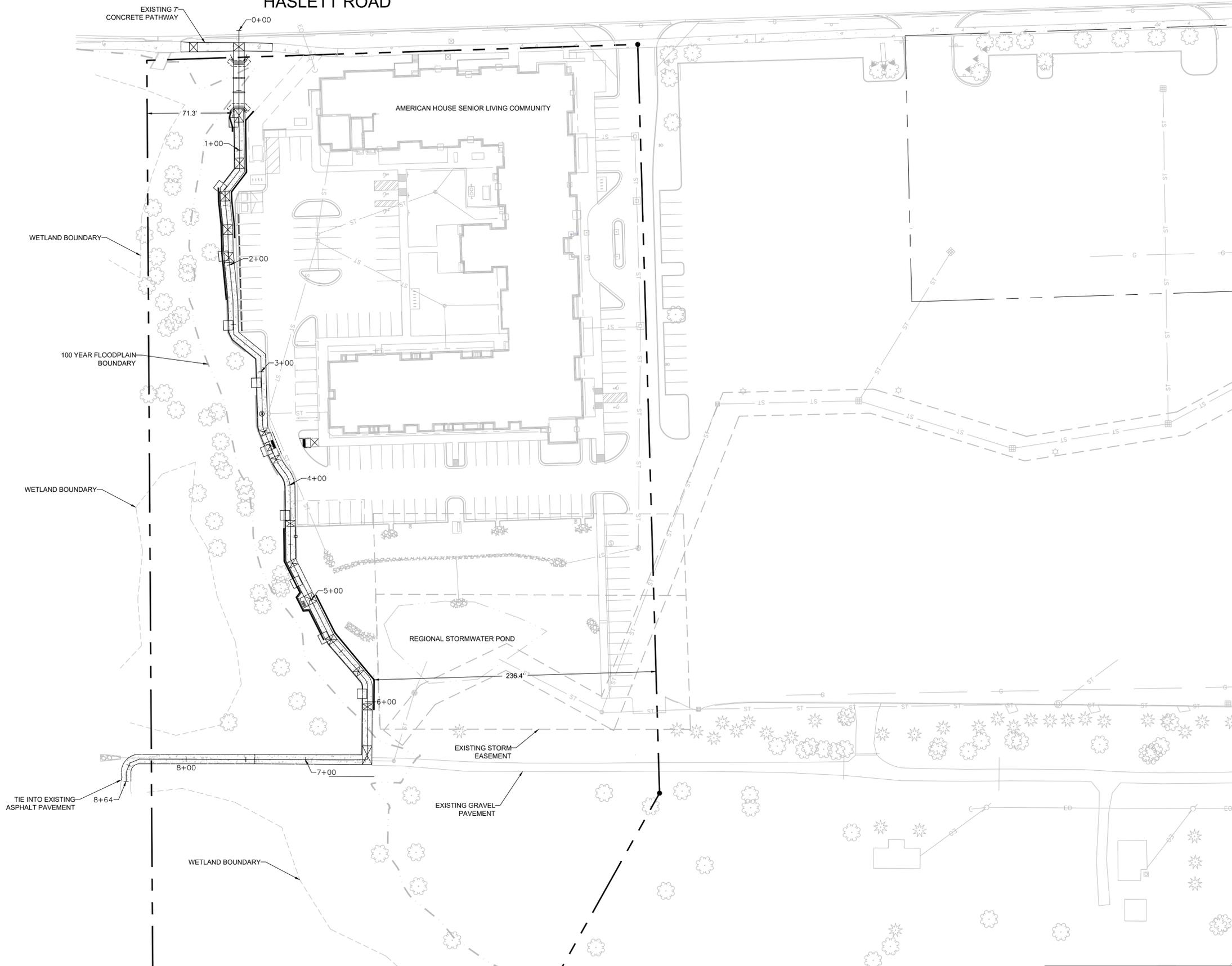
Meridian Charter Township Ingham County, Michigan	
PATHWAY	
AMERICAN HOUSE PATHWAY 1673 HASLETT ROAD SE 1/4 SECTION 10, T4N, R1W, MERIDIAN TOWNSHIP, INGHAM COUNTY, MICHIGAN	
DRAWN BY: CH	CHECKED BY: YI

REVISIONS:		
DATE	BY:	COMMENTS:
10.03.25	CH	BID SET
SHEET:		
5 - SESC NOTES & DETAILS		

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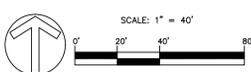
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# HASLETT ROAD



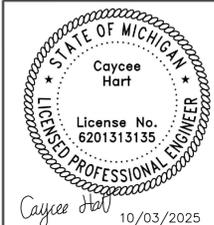
## LEGEND

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



### Call 811 before you dig.

WOLVERINE PIPE LINE COMPANY 219-844-9510



Meridian Charter Township  
Ingham County, Michigan

**PATHWAY**

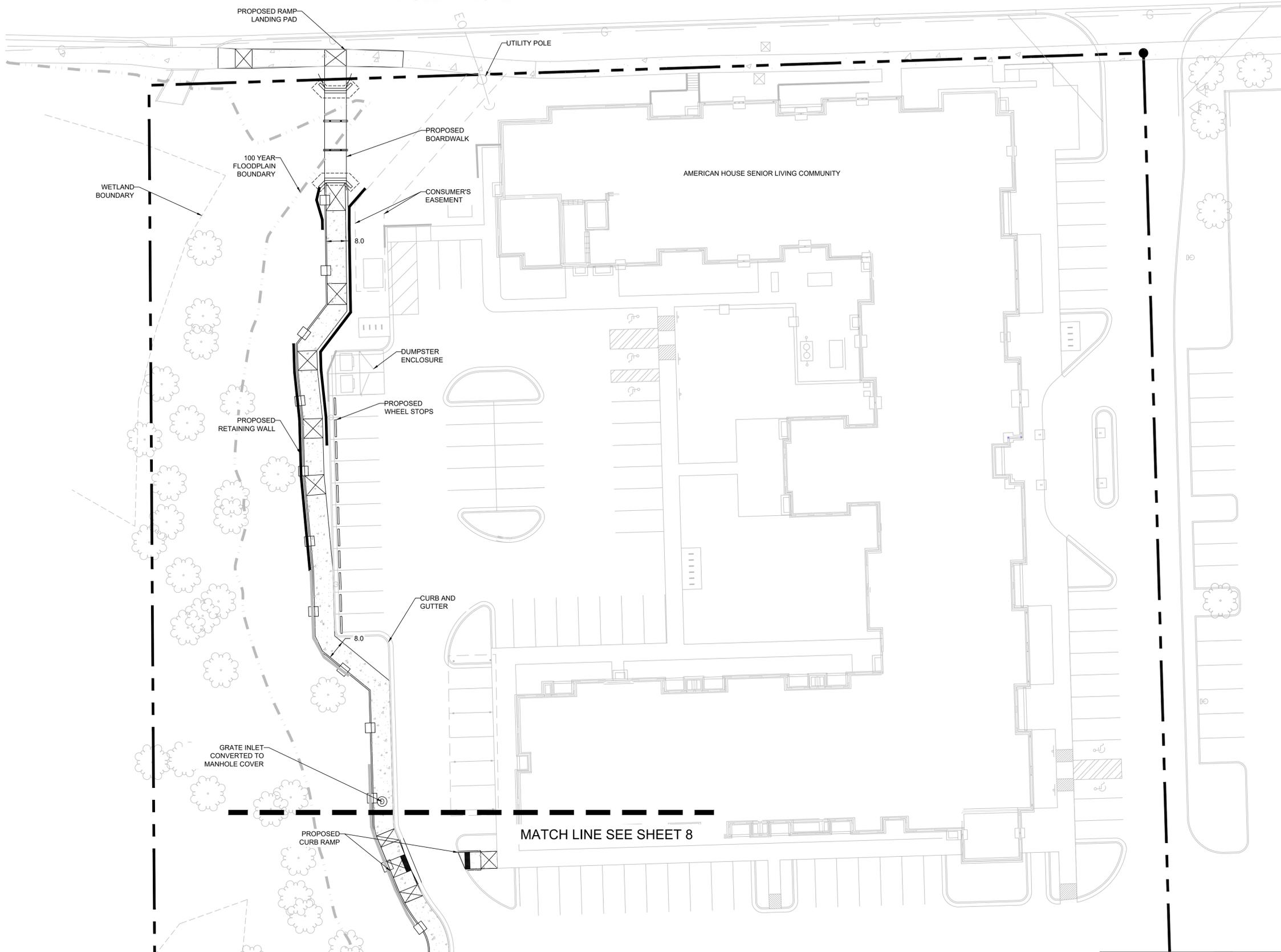
AMERICAN HOUSE PATHWAY  
1673 HASLETT ROAD  
SE 1/4 SECTION 10, T4N, R1W, MERIDIAN TOWNSHIP,  
INGHAM COUNTY, MICHIGAN

DRAWN BY: CH      CHECKED BY: YI

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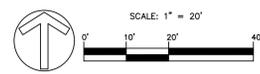
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HASLETT ROAD



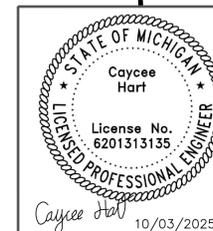
LEGEND

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



**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

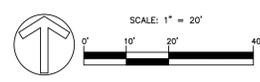
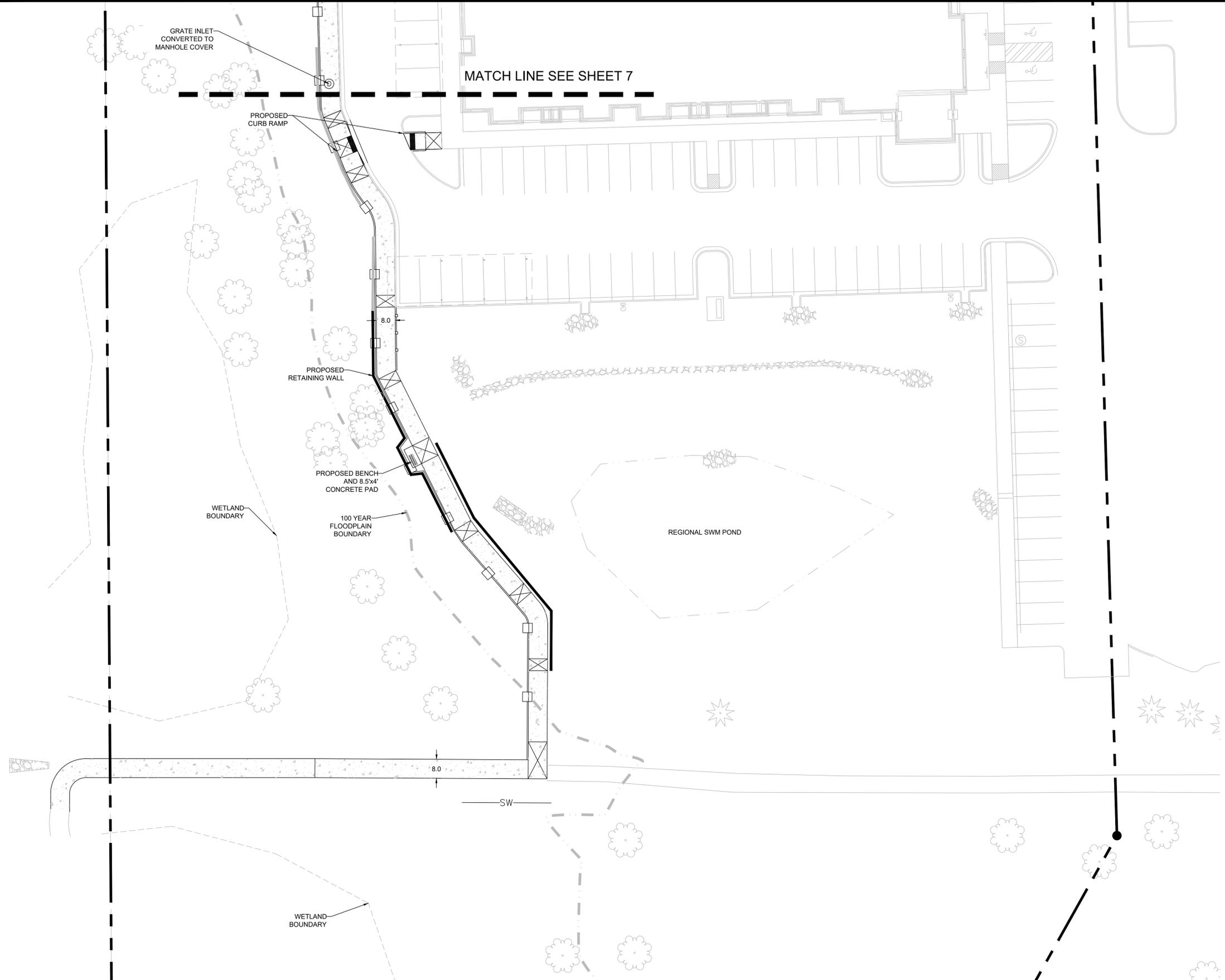
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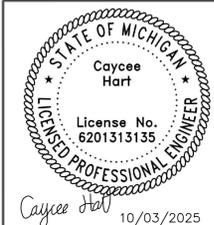
**LEGEND**

-  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**

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

SHEET: 8 - SITE PLAN

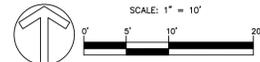
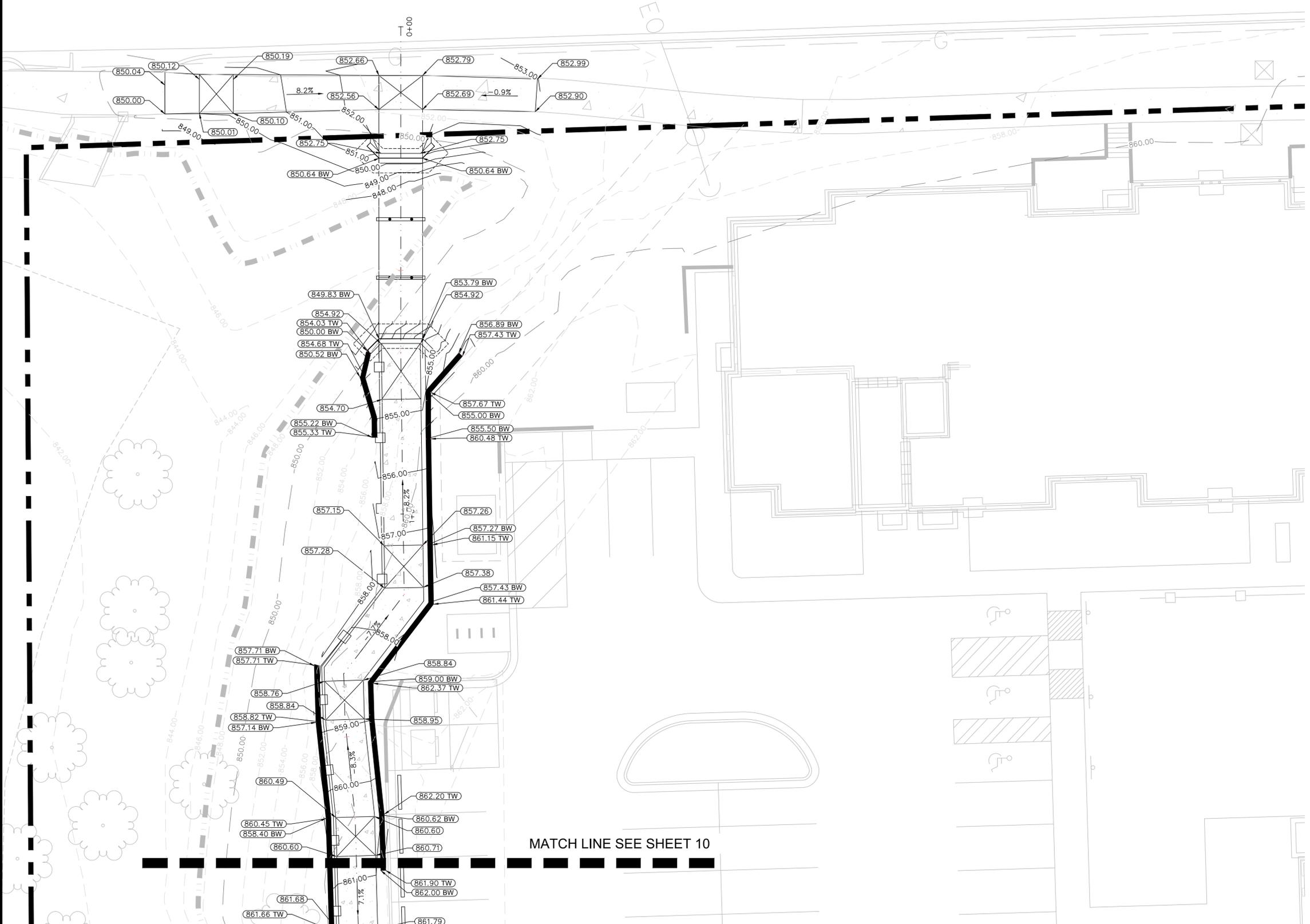
# HASLETT ROAD

## LEGEND

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

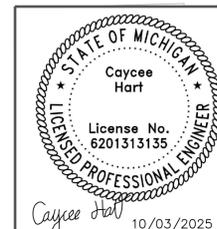
### ADA NOTES:

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.



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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

DRAWN BY: CH

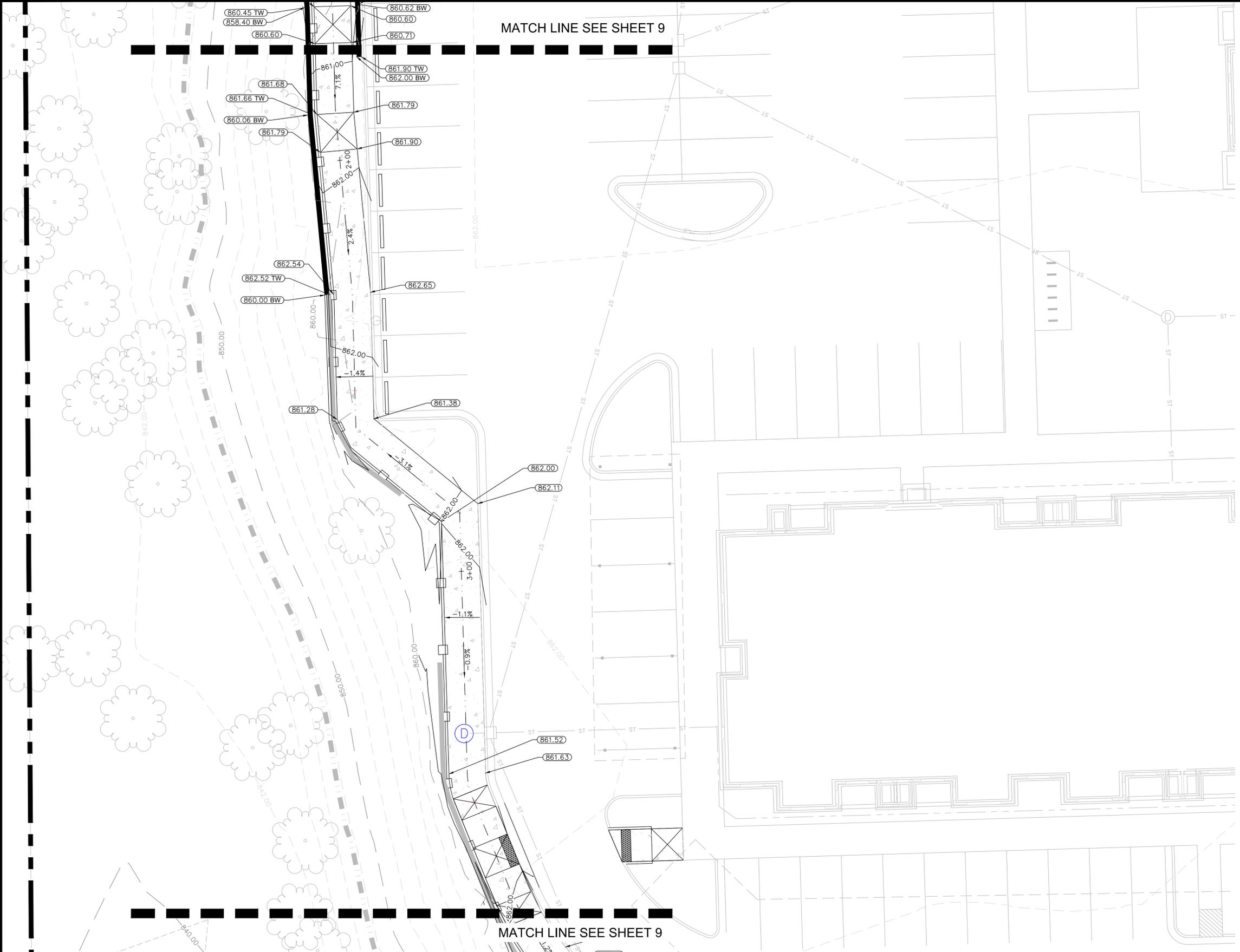
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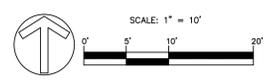
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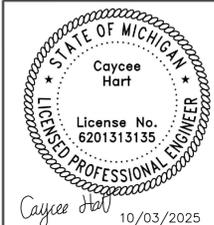
- PROPERTY LINE
- 100 YEAR FLOODPLAIN BOUNDARY
- EXISTING SHEET PILE RETAINING WALL
- PROPOSED SHEET PILE RETAINING WALL
- PROPOSED FENCE
- WETLAND BOUNDARY
- EXISTING CONTOUR
- PROPOSED CONTOUR
- PROFILE ALIGNMENT (SEE SHEET 13 FOR PROFILE)
- CROSS SECTION

- ADA NOTES:**
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WOLVERINE PIPE LINE COMPANY 219-844-9510



Meridian Charter Township  
Ingham County, Michigan

**PATHWAY**

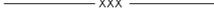
AMERICAN HOUSE PATHWAY  
1673 HASLETT ROAD  
SE 1/4 SECTION 10, T4N, R1W, MERIDIAN TOWNSHIP,  
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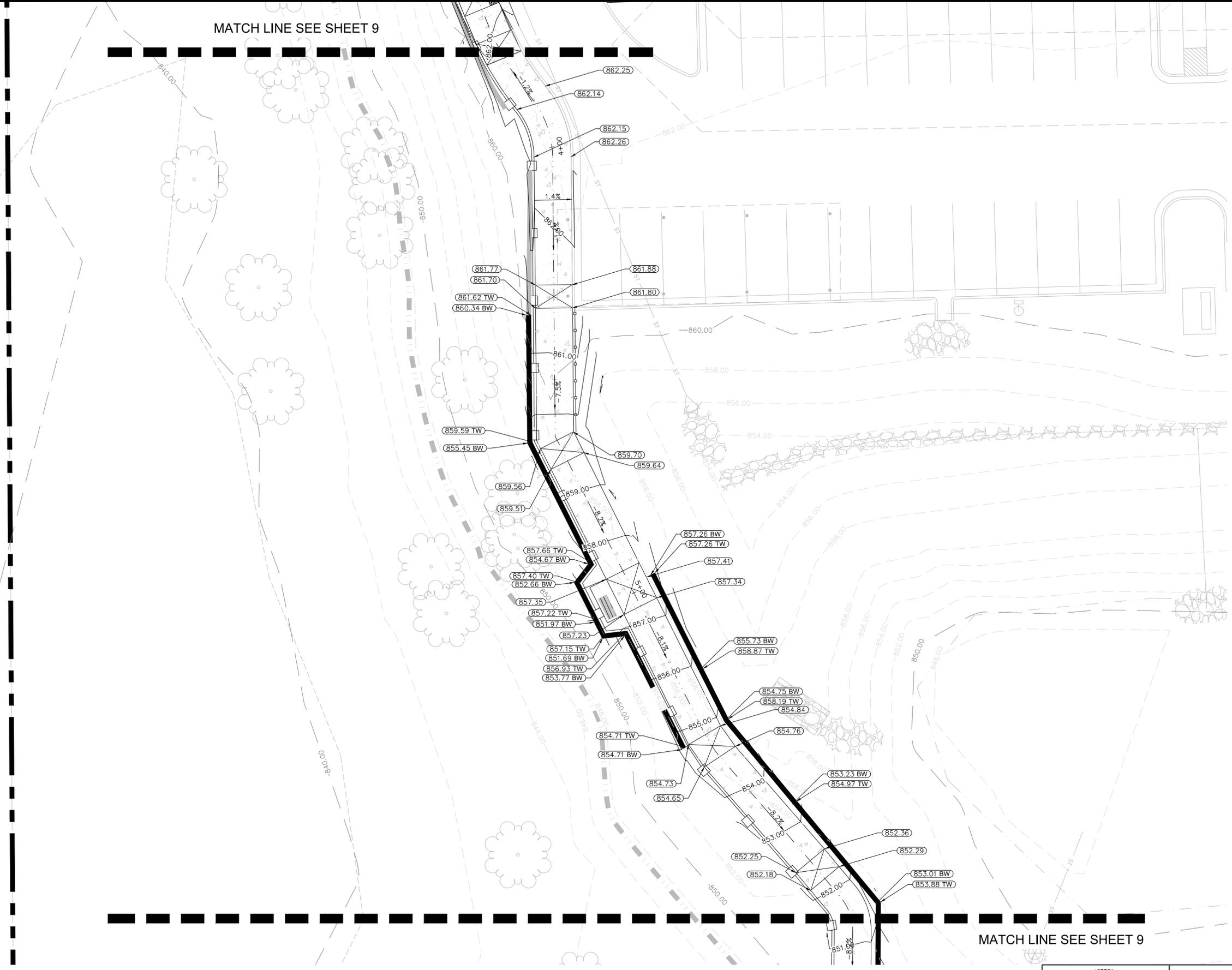
MATCH LINE SEE SHEET 9

**LEGEND**

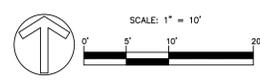
-  PROPERTY LINE
-  100 YEAR FLOODPLAIN BOUNDARY
-  EXISTING SHEET PILE RETAINING WALL
-  PROPOSED SHEET PILE RETAINING WALL
-  PROPOSED FENCE
-  WETLAND BOUNDARY
-  EXISTING CONTOUR
-  PROPOSED CONTOUR
-  PROFILE ALIGNMENT (SEE SHEET 13 FOR PROFILE)
-  CROSS SECTION

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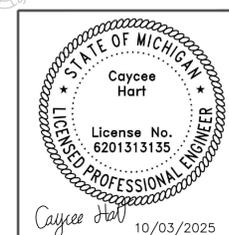


MATCH LINE SEE SHEET 9



**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

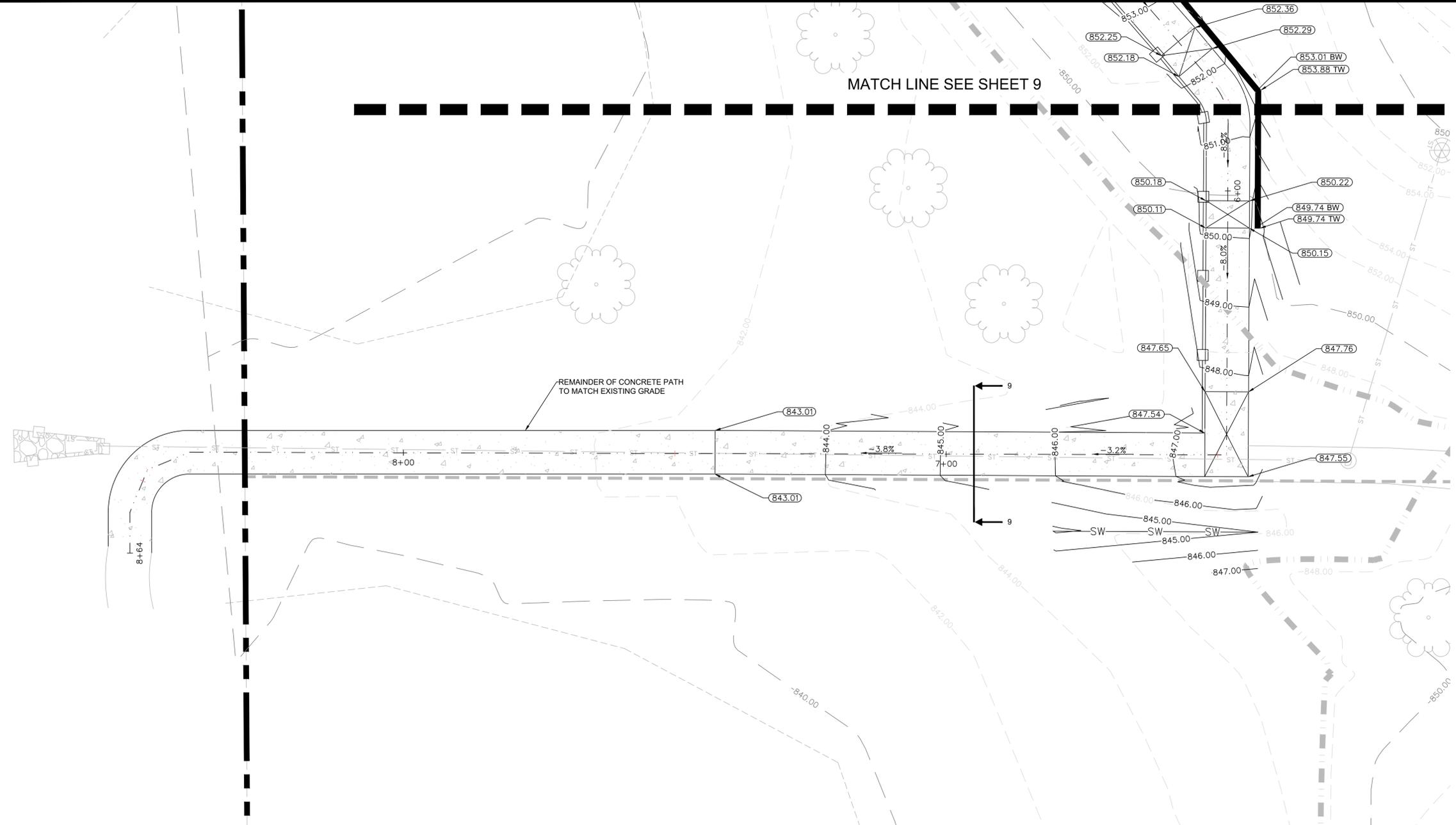
DRAWN BY: CH

CHECKED BY: YI

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SHEET:		

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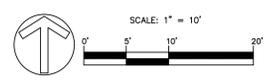
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**LEGEND**

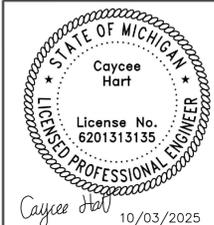
- PROPERTY LINE
- 100 YEAR FLOODPLAIN BOUNDARY
- EXISTING SHEET PILE RETAINING WALL
- PROPOSED SHEET PILE RETAINING WALL
- PROPOSED FENCE
- WETLAND BOUNDARY
- EXISTING CONTOUR
- PROPOSED CONTOUR
- PROFILE ALIGNMENT (SEE SHEET 13 FOR PROFILE)
- CROSS SECTION

- ADA NOTES:**
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

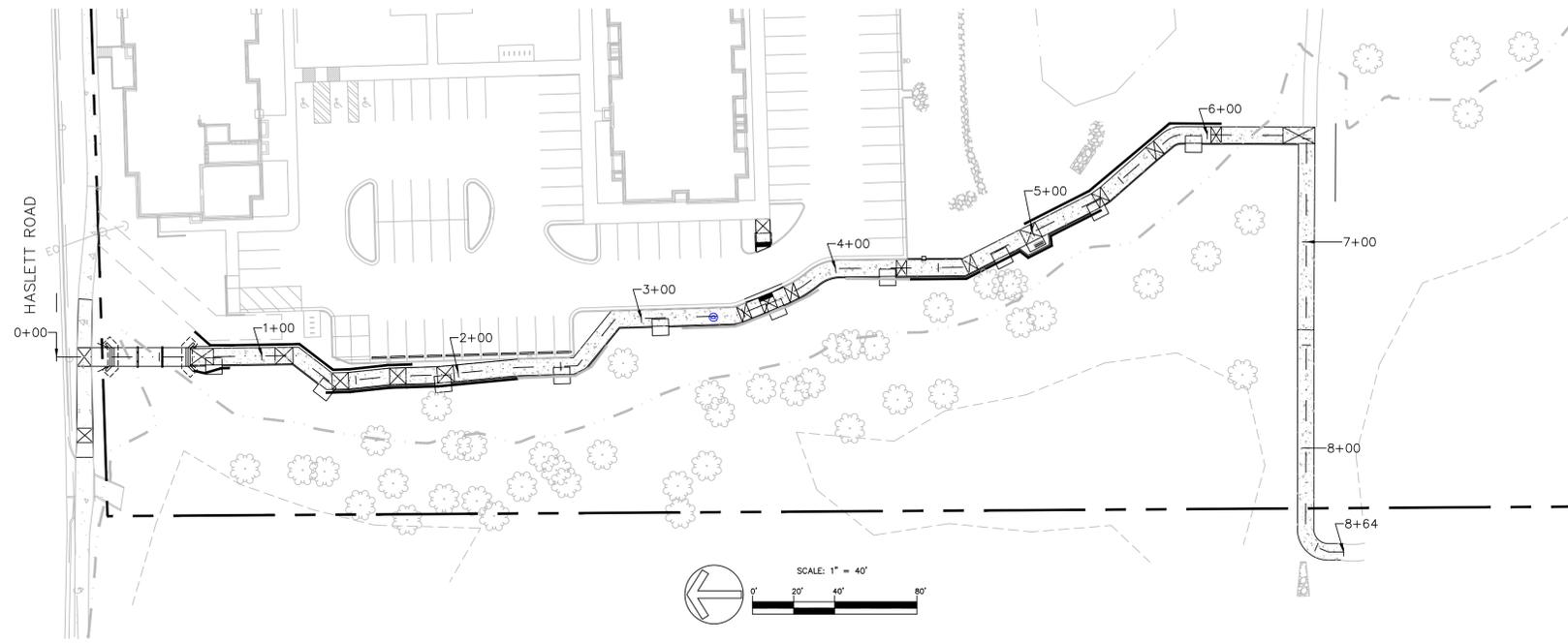
PATHWAY

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

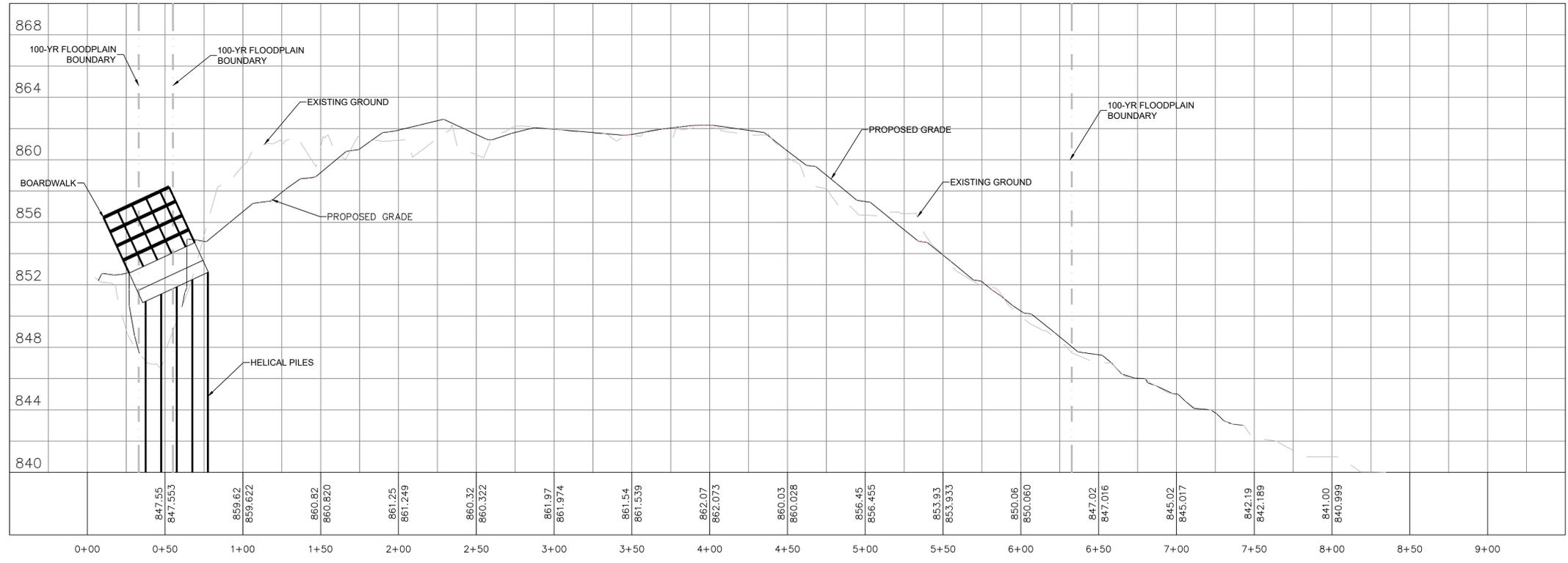
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DATE	BY:	COMMENTS:
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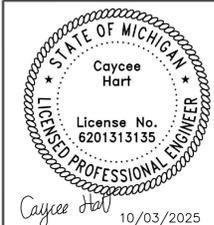


PATH PROFILE PROFILE  
 HORIZ. SCALE: 1"=40'  
 VERT. SCALE: 1"=4'



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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

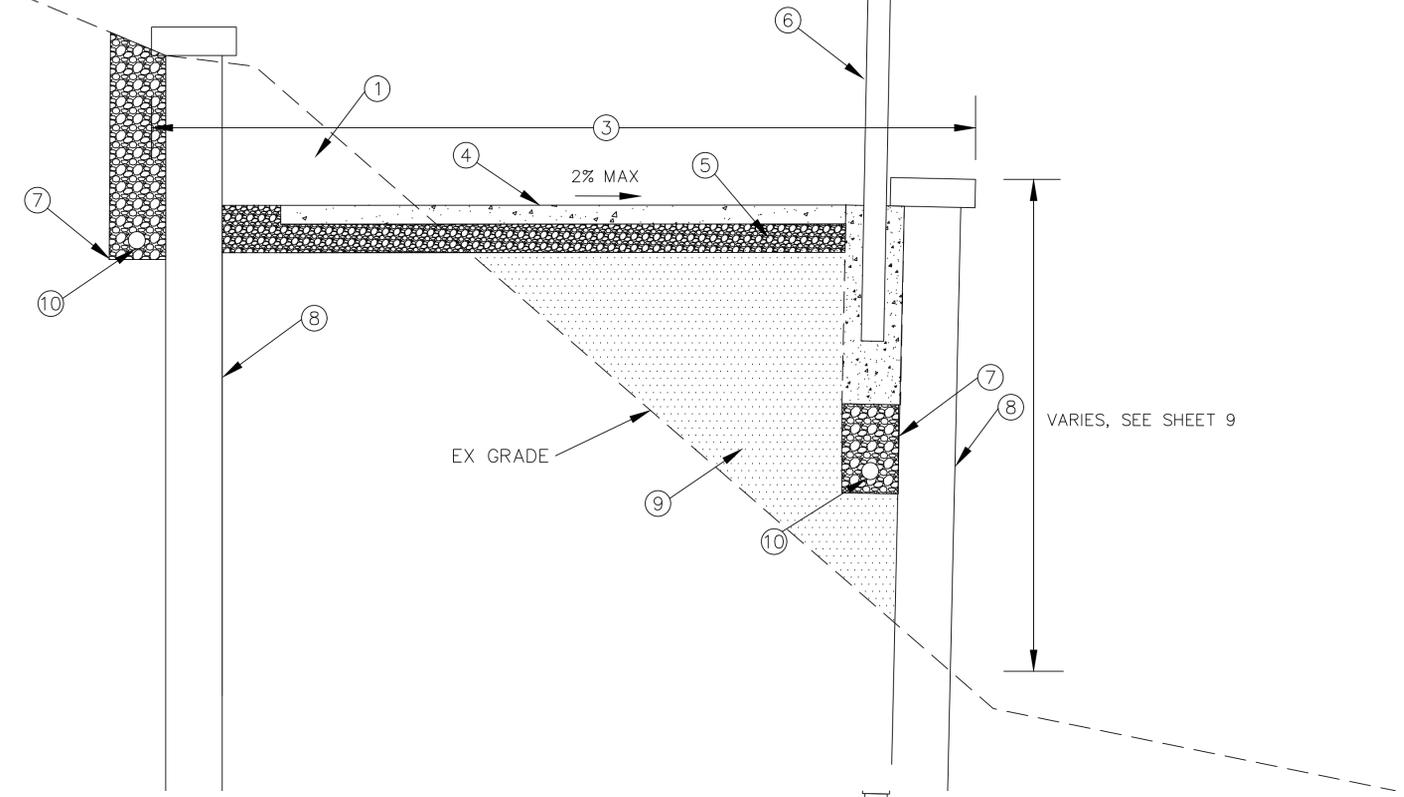
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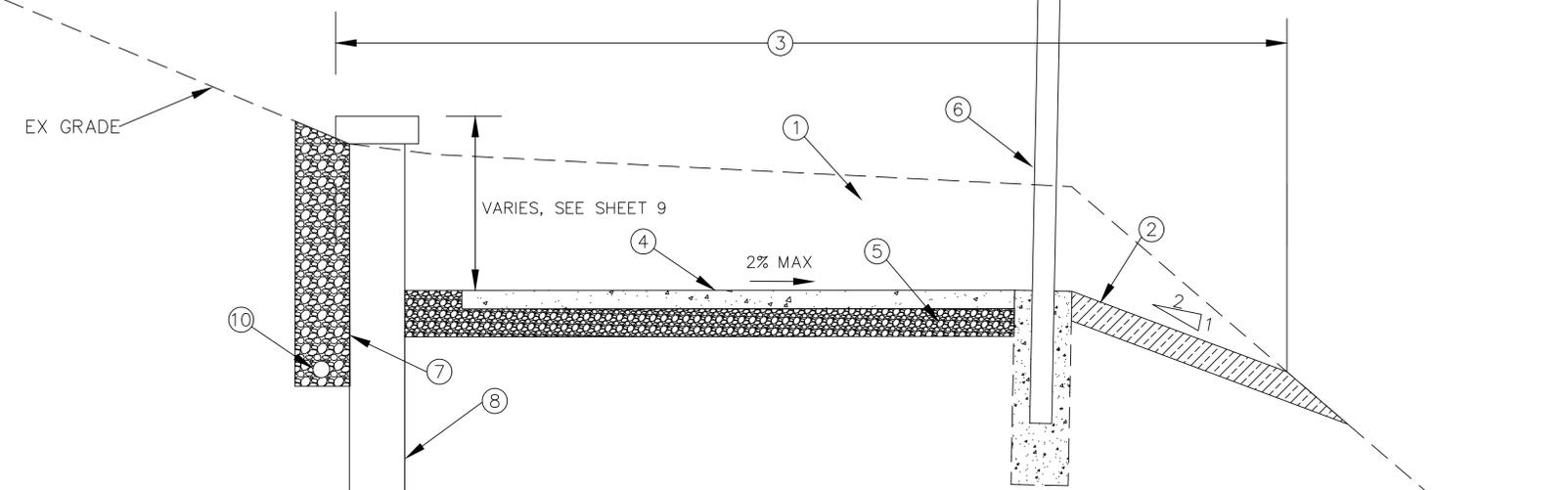
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- PAY ITEM LEGEND:**
- ① EXCAVATION, EARTH
  - ② SITE RESTORATION (3" SCREENED TOPSOIL)
  - ③ SHARED USE PATH, GRADING
  - ④ SHARED USE PATH, 4" CONCRETE
  - ⑤ SHARED USE PATH AGGREGATE, 3 INCH COMPACTED SAND
  - ⑥ FENCE, SEE DETAIL ON SHEET 7
  - ⑦ PEA STONE BACKFILL, 18" BEHIND THE WALL
  - ⑧ SHEET PILE RETAINING WALL
  - ⑨ EMBANKMENT, LM
  - ⑩ UNDERDRAIN, 4 INCH

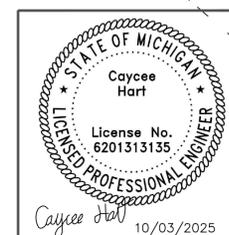
- GENERAL NOTES:**
- CROSS-SECTIONS ARE NOT TO SCALE.
  - CROSS-SECTIONS ARE LOOKING UP-STATION.
  - SALVAGE OR REMOVE EXISTING TOPSOIL WITHIN THE GRADING LIMITS, OR AS DIRECTED BY THE ENGINEER. REMOVAL AND DISPOSAL WILL BE PAID FOR AS EXCAVATION, EARTH.
  - TOPSOIL FOR SITE RESTORATION MAY BE SALVAGED FROM SITE, BUT MUST BE SCREENED OR RAKED TO REMOVE 1" OR GREATER DEBRIS.
  - FOR SITE RESTORATION, USE SEED MEETING MDOT THM MIXTURE.
  - EMBANKMENT, LM SHALL BE CLASS II GRANULAR MATERIAL OR ASPHALT MILLINGS.
  - FOR EMBANKMENT, LM AND SHARED USE PATH AGGREGATE THE CONTRACTOR MAY USE MILLINGS FROM THE STOCKPILE AT MERIDIAN TOWNSHIP'S SERVICE CENTER. THERE ARE MORE THAN ENOUGH MILLINGS FOR ALL OF THE FILL REQUIRED ON THIS PROJECT. THE CONTRACTOR WILL BE RESPONSIBLE TO PROVIDE THE LABOR AND EQUIPMENT TO LOAD AND TRANSPORT THE MILLINGS FROM THE STOCKPILE LOCATION TO THE CONSTRUCTION SITE.



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



**TYPICAL DETAIL**  
STA: 0+84 TO 1+37



Meridian Charter Township  
Ingham County, Michigan

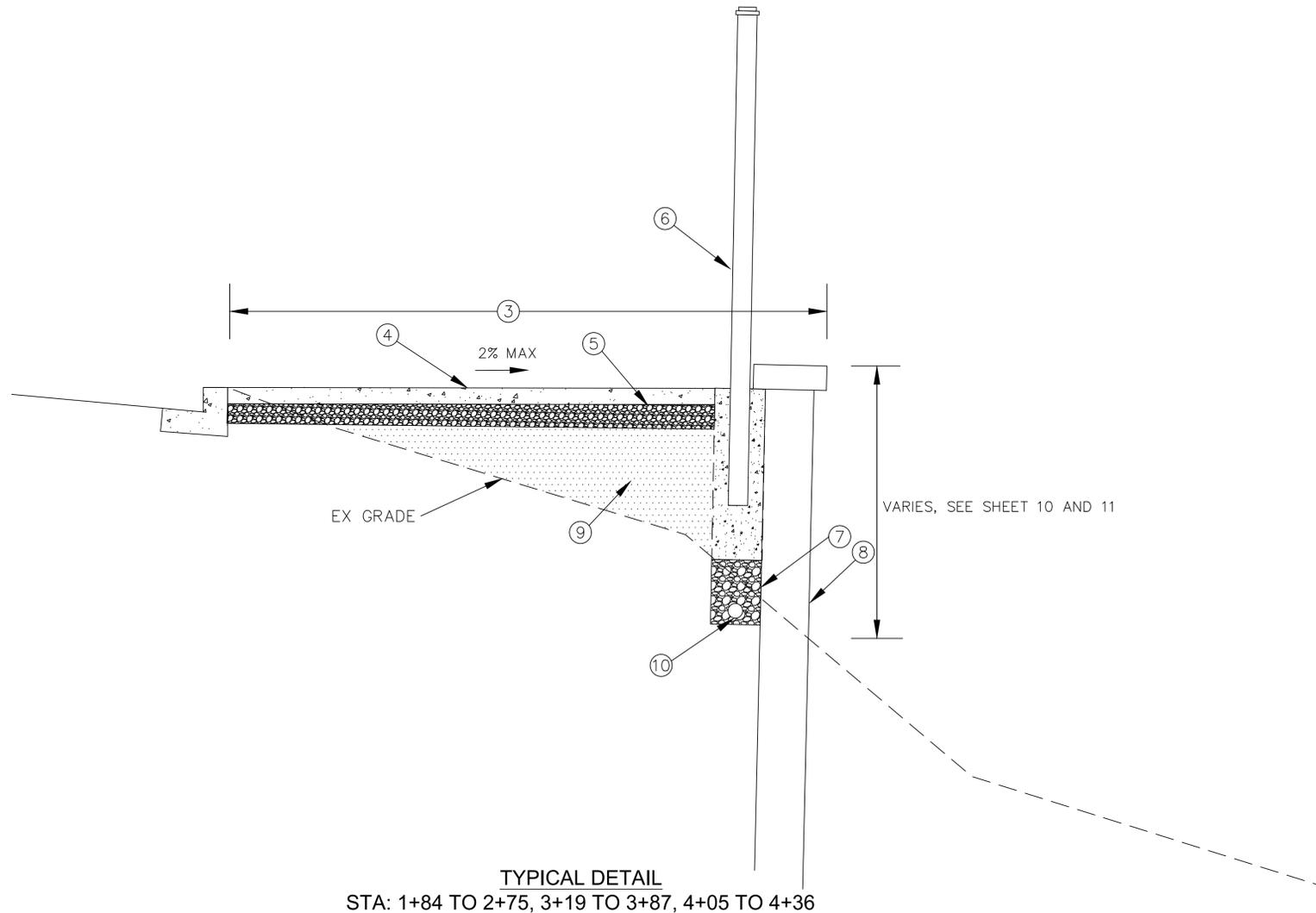
**PATHWAY**

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

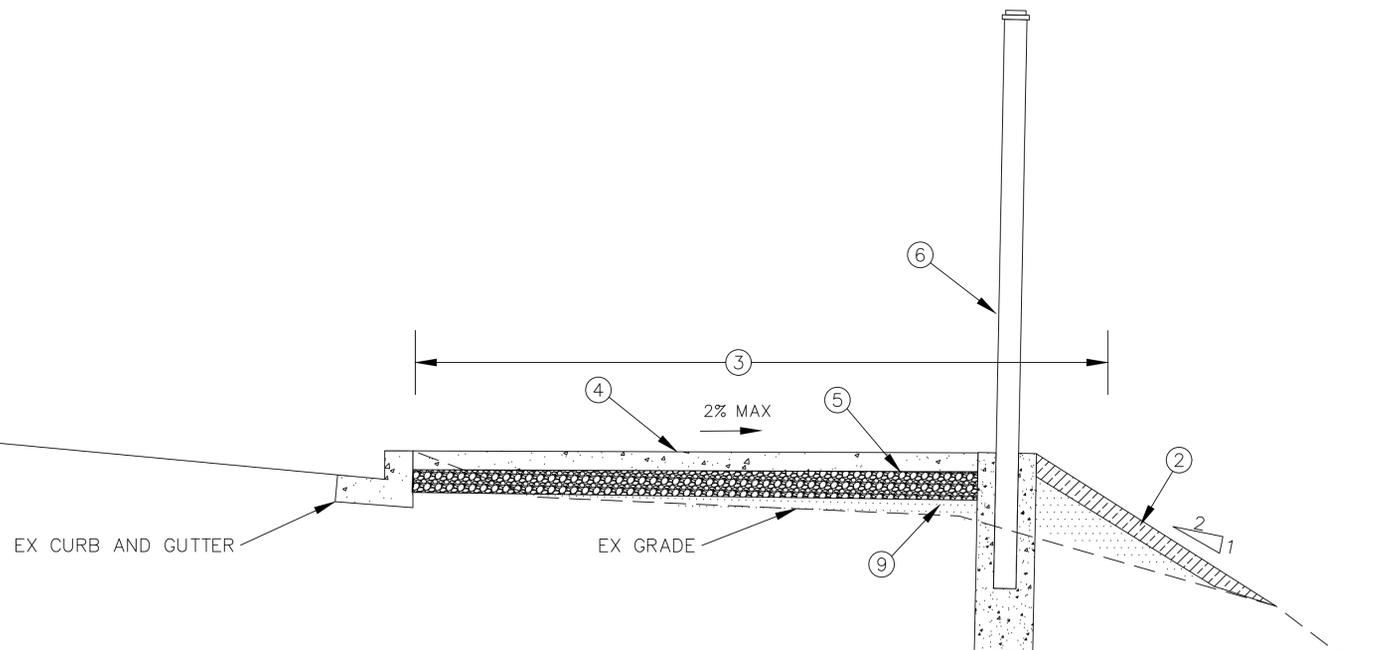
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TYPICAL DETAIL  
STA: 1+84 TO 2+75, 3+19 TO 3+87, 4+05 TO 4+36



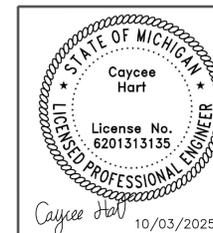
TYPICAL DETAIL  
STA: 2+75 TO 3+19, 3+87 TO 4+05

PAY ITEM LEGEND:

- ① EXCAVATION, EARTH
- 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 PEA STONE BACKFILL, 18" BEHIND THE WALL
- ⑧ SHEET PILE RETAINING WALL
- ⑨ EMBANKMENT, LM
- ⑩ UNDERDRAIN, 4 INCH

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.
- FOR SITE RESTORATION, USE SEED MEETING MDOT THM MIXTURE.
- EMBANKMENT, LM SHALL BE CLASS II GRANULAR MATERIAL OR ASPHALT MILLINGS.
- FOR EMBANKMENT, LM AND SHARED USE PATH AGGREGATE THE CONTRACTOR MAY USE MILLINGS FROM THE STOCKPILE AT MERIDIAN TOWNSHIP'S SERVICE CENTER. THERE ARE MORE THAN ENOUGH MILLINGS FOR ALL OF THE FILL REQUIRED ON THIS PROJECT. THE CONTRACTOR WILL BE RESPONSIBLE TO PROVIDE THE LABOR AND EQUIPMENT TO LOAD AND TRANSPORT THE MILLINGS FROM THE STOCKPILE LOCATION TO THE CONSTRUCTION SITE.



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

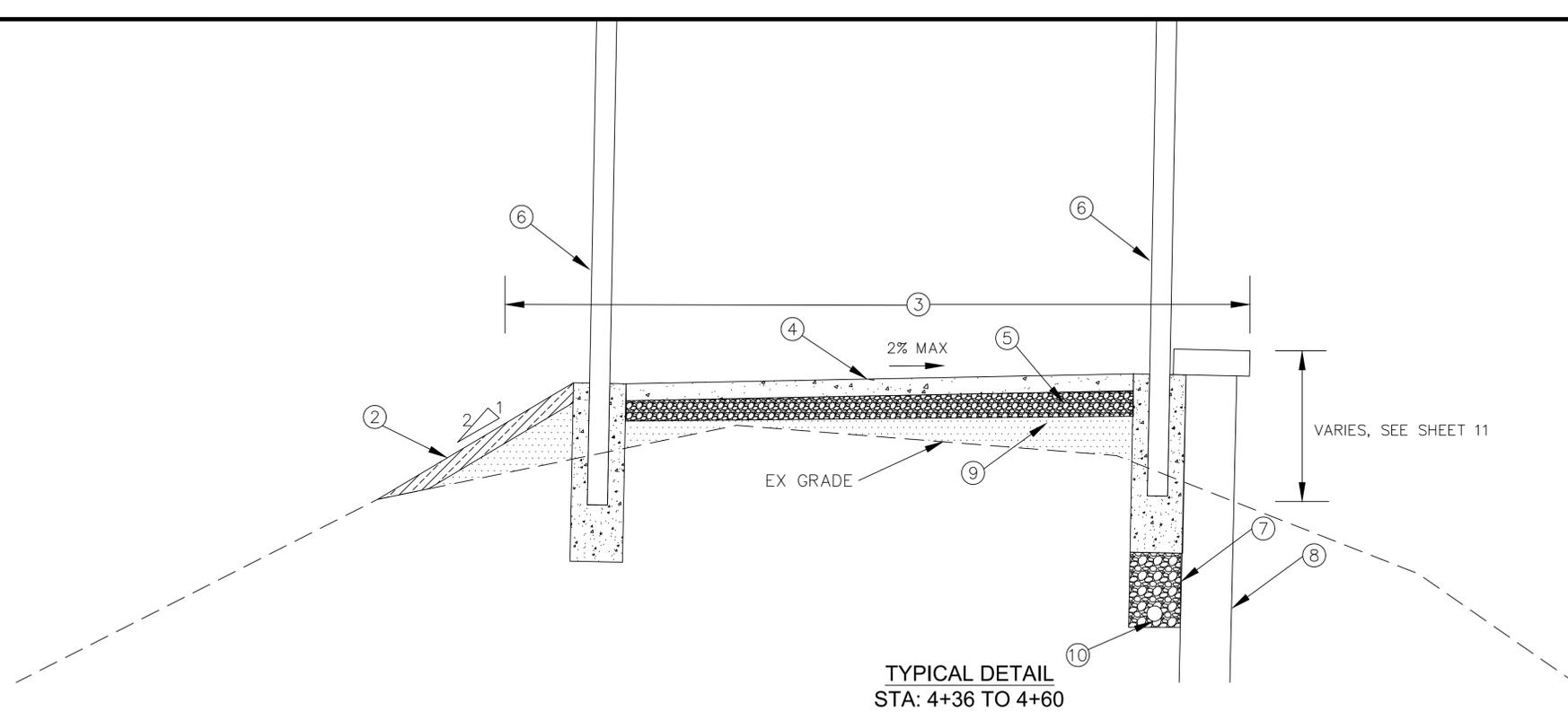
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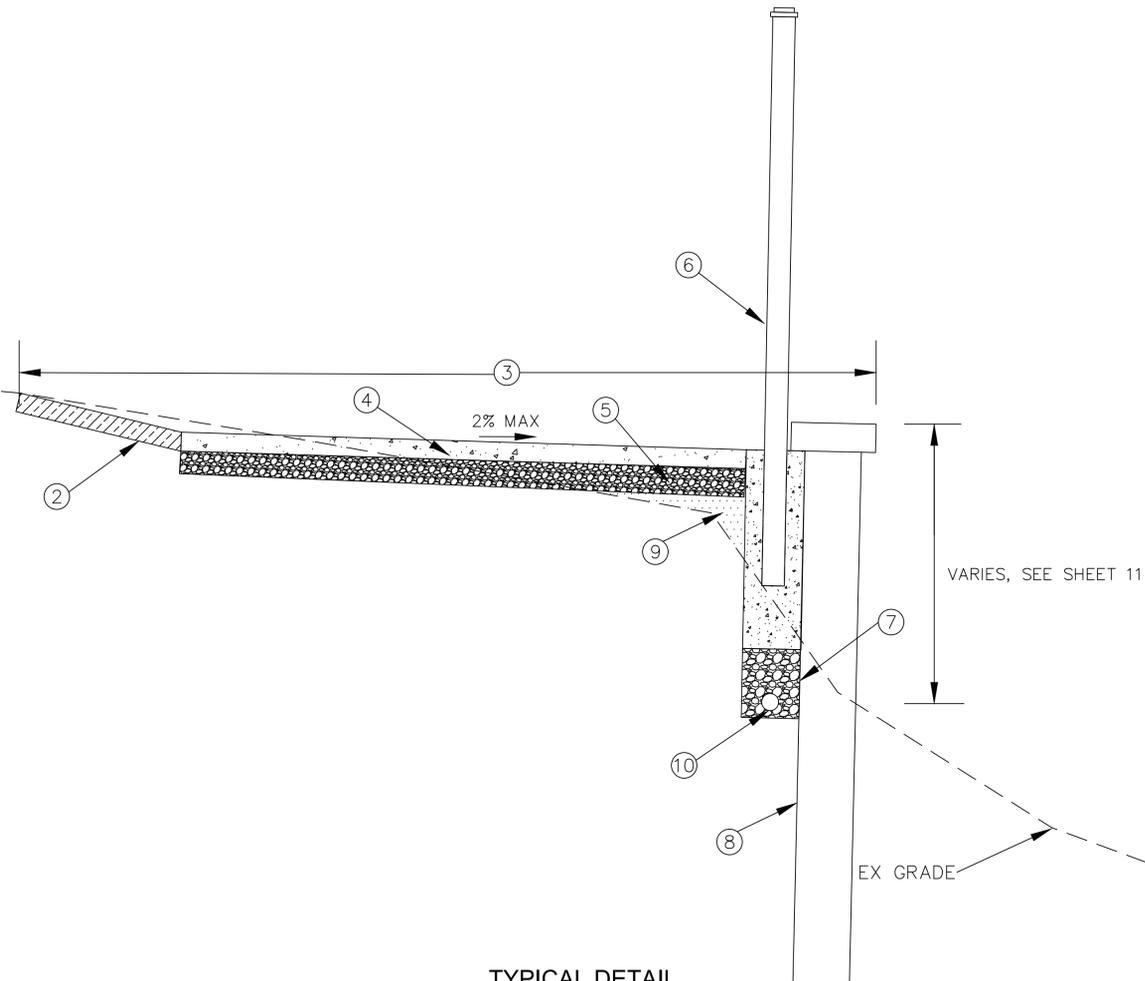
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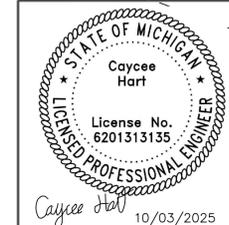
TYPICAL DETAIL  
STA: 4+36 TO 4+60

- PAY ITEM LEGEND:**
- ① EXCAVATION, EARTH
  - ② SITE RESTORATION (3" SCREENED TOPSOIL)
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  - ④ SHARED USE PATH, 4" CONCRETE
  - ⑤ SHARED USE PATH AGGREGATE, 3 INCH COMPACTED SAND
  - ⑥ FENCE, SEE DETAIL ON SHEET 7
  - ⑦ PEA STONE BACKFILL, 18" BEHIND THE WALL
  - ⑧ SHEET PILE RETAINING WALL
  - ⑨ EMBANKMENT, LM
  - ⑩ UNDERDRAIN, 4 INCH



TYPICAL DETAIL  
STA: 4+60 TO 4+98

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Meridian Charter Township  
Ingham County, Michigan

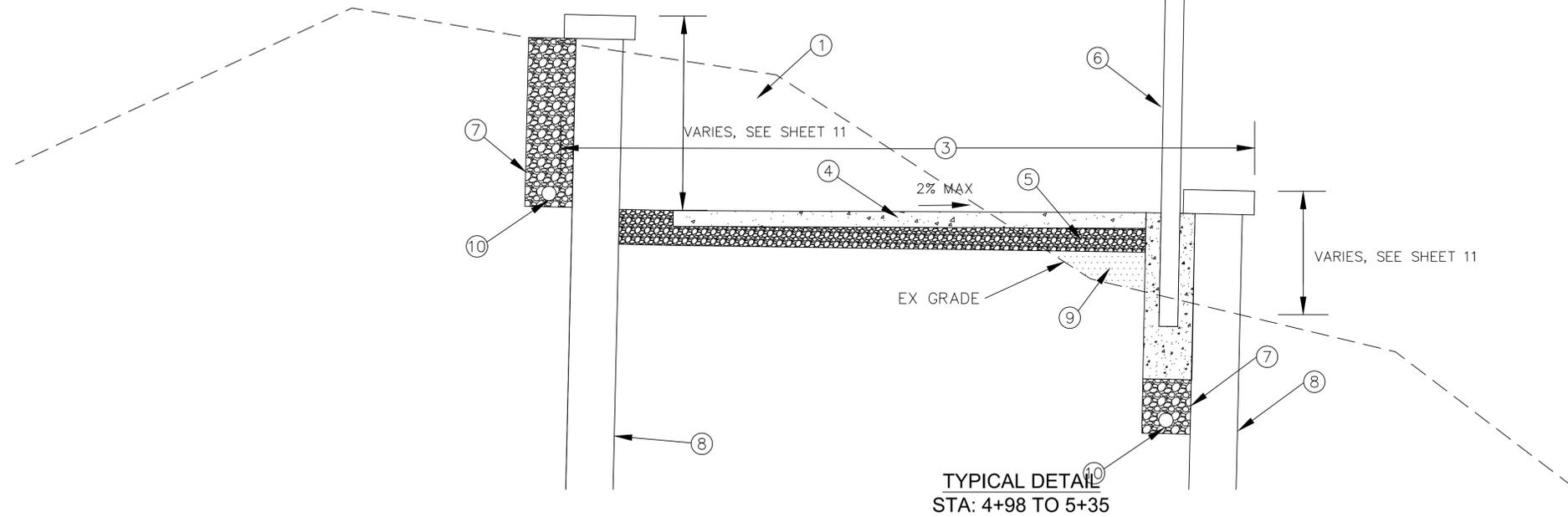
**PATHWAY**

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

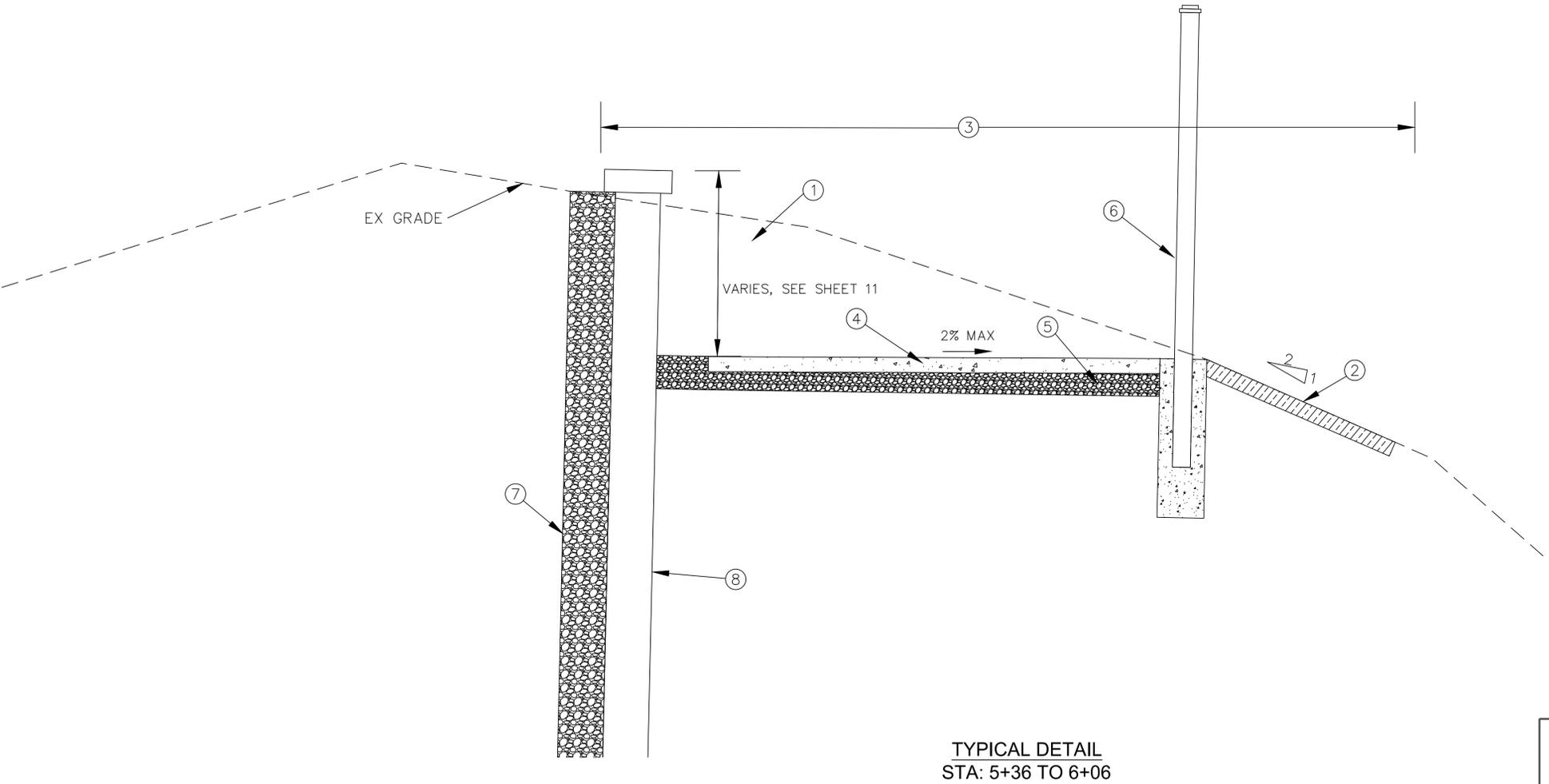
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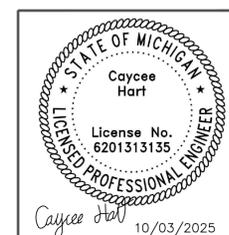
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Meridian Charter Township  
Ingham County, Michigan

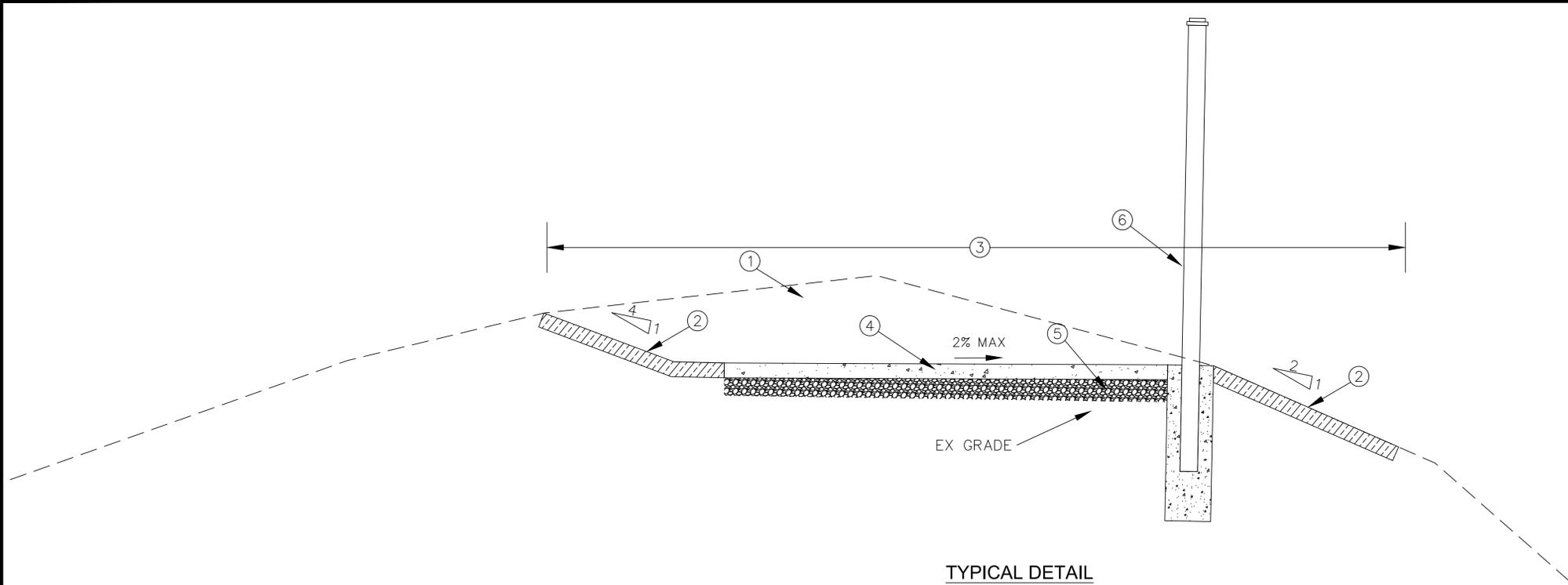
**PATHWAY**

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

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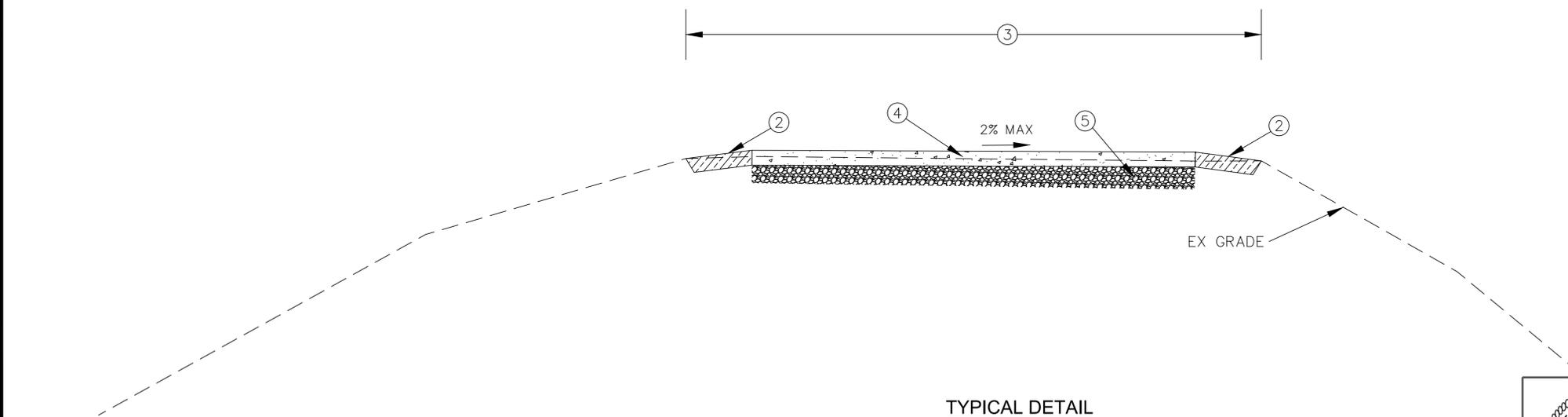
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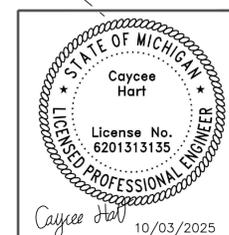
TYPICAL DETAIL  
STA: 6+06 TO 6+53

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  - ② SITE RESTORATION (3" SCREENED TOPSOIL)
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TYPICAL DETAIL  
STA: 6+53 TO 8+64

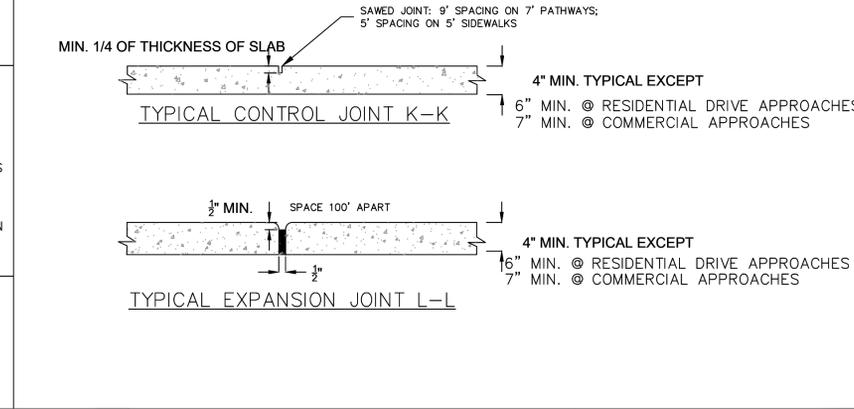
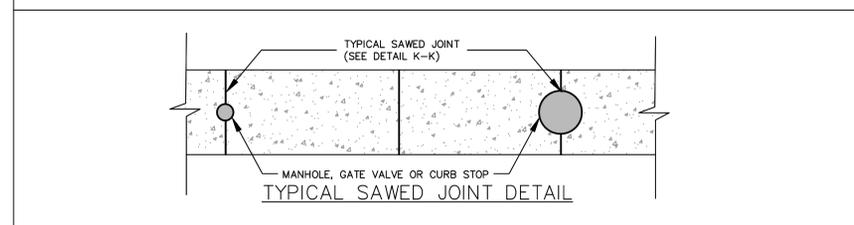
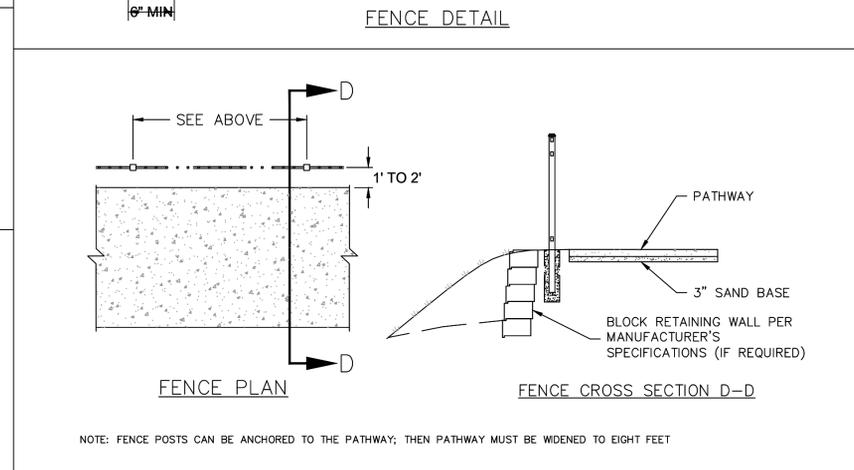
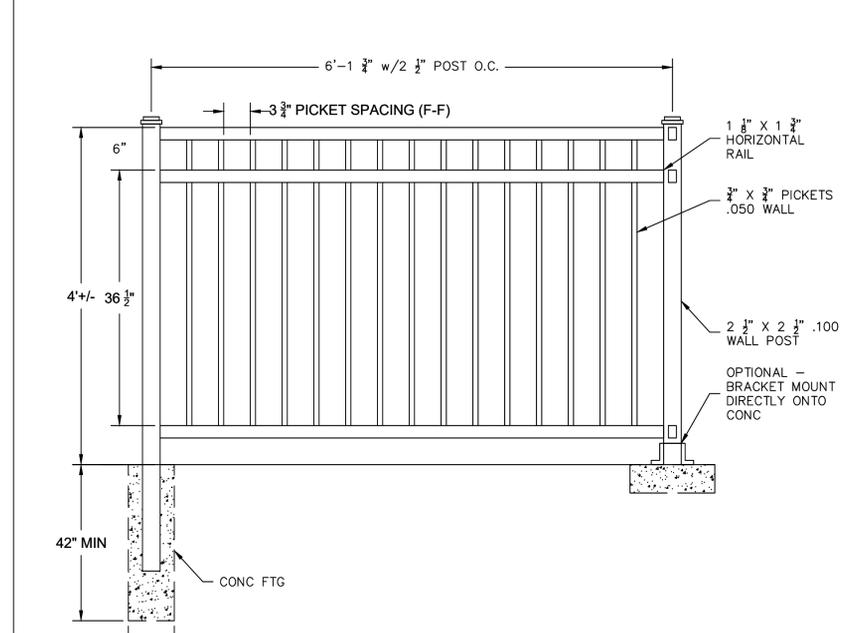
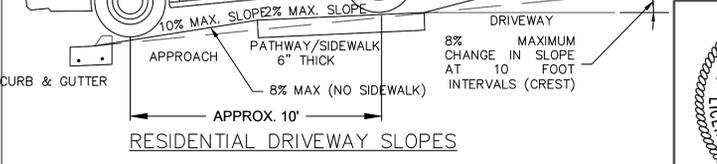
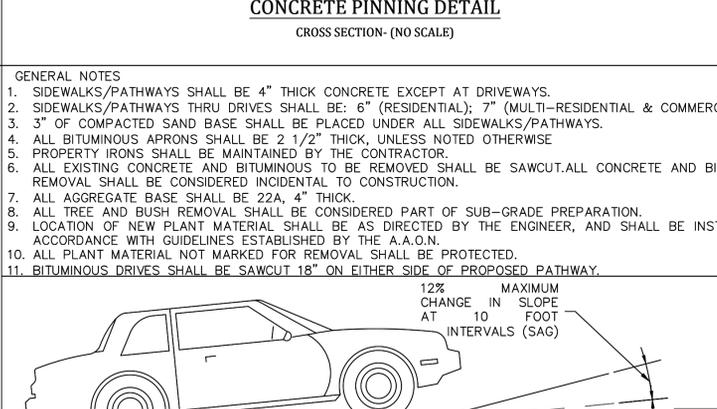
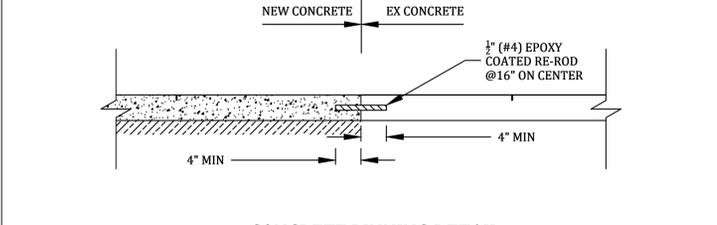
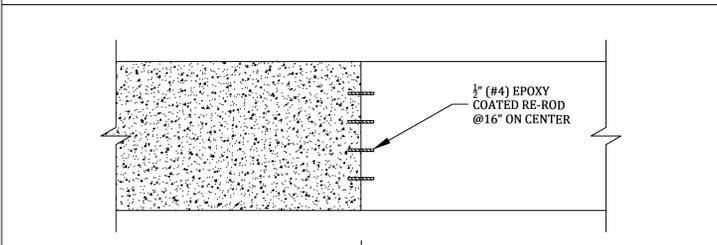
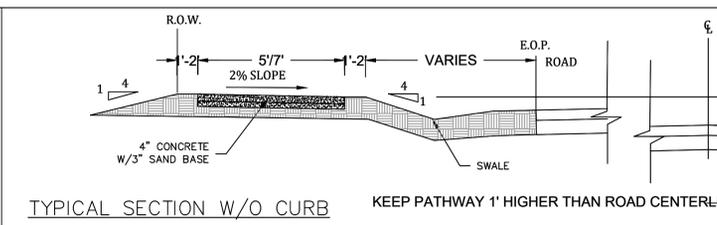
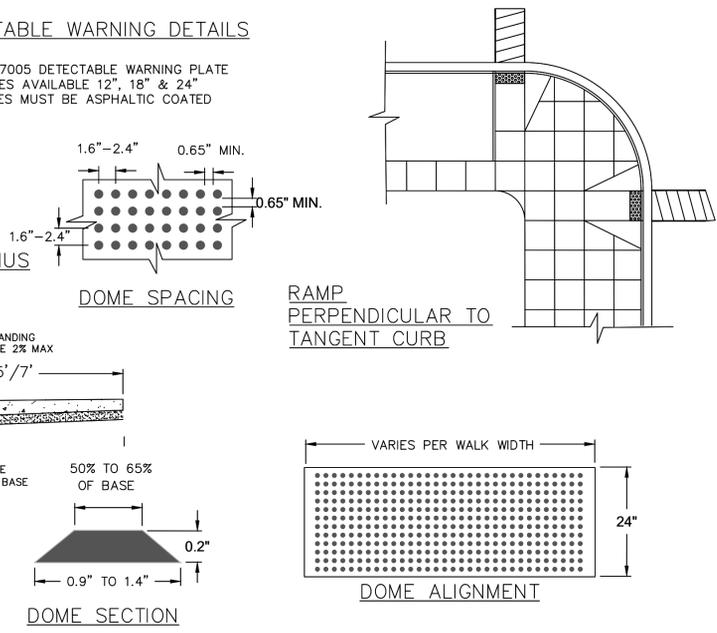
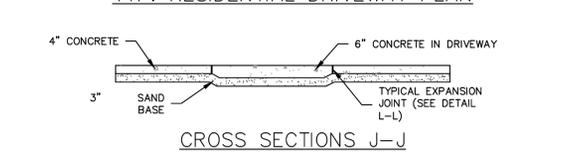
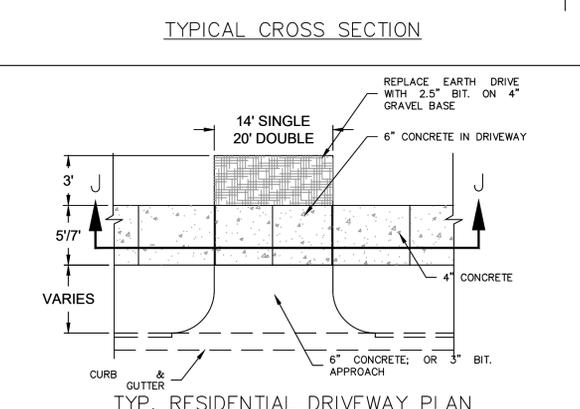
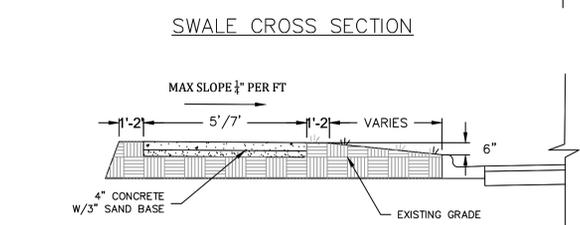
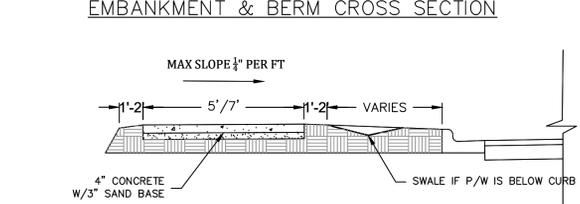
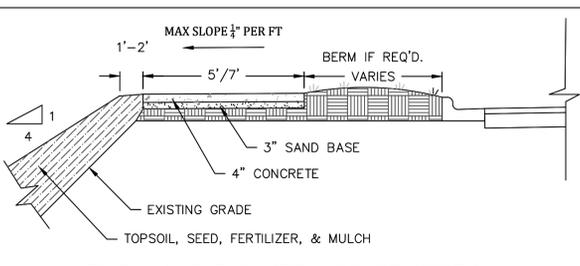
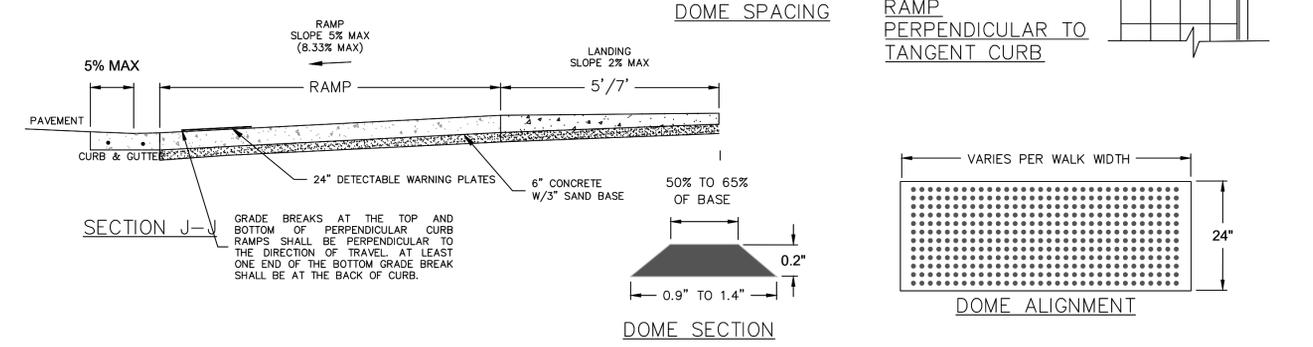
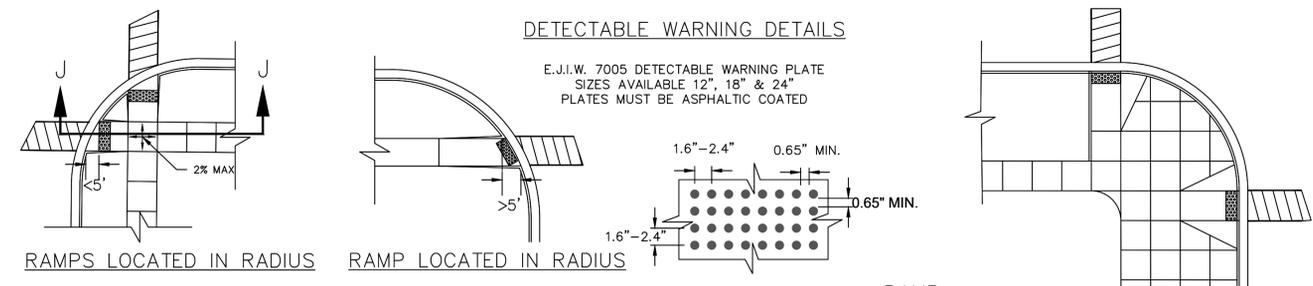
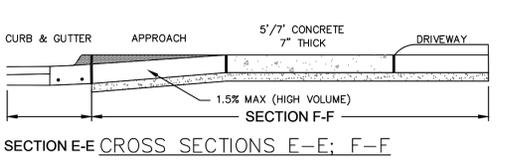
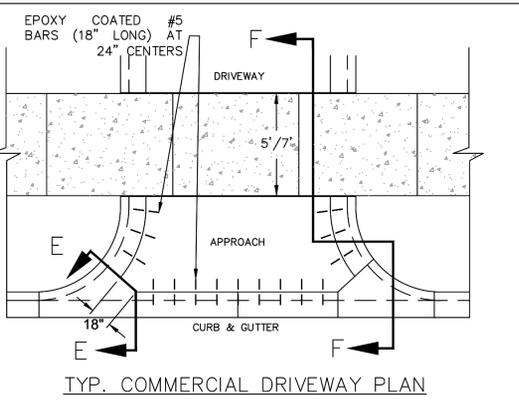
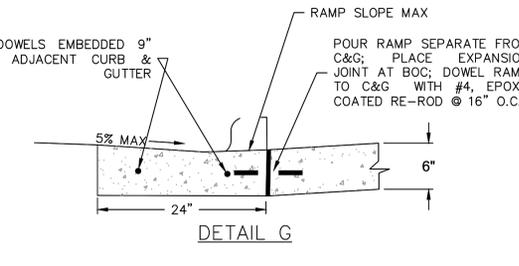
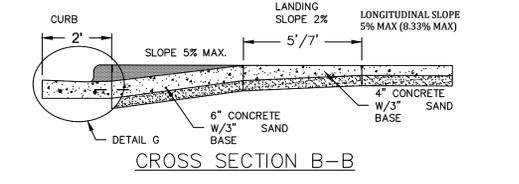
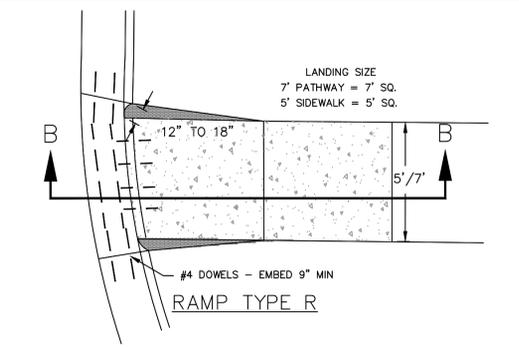
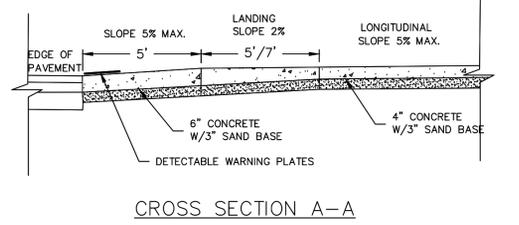
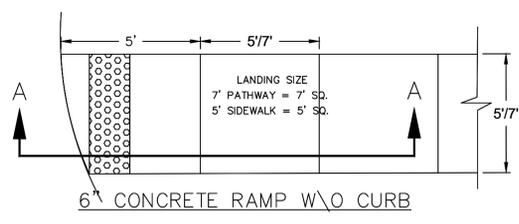


Meridian Charter Township  
Ingham County, Michigan  
**PATHWAY**

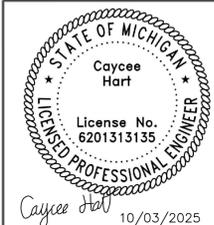
AMERICAN HOUSE PATHWAY  
1673 HASLETT ROAD  
SE 1/4 SECTION 10, T4N, R1W, MERIDIAN TOWNSHIP,  
INGHAM COUNTY, MICHIGAN

DRAWN BY: CH      CHECKED BY: YI

REVISIONS:		
DATE	BY:	COMMENTS:
10.03.25	CH	BID SET
SHEET:		



- 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.



Meridian Charter Township  
Ingham County, Michigan

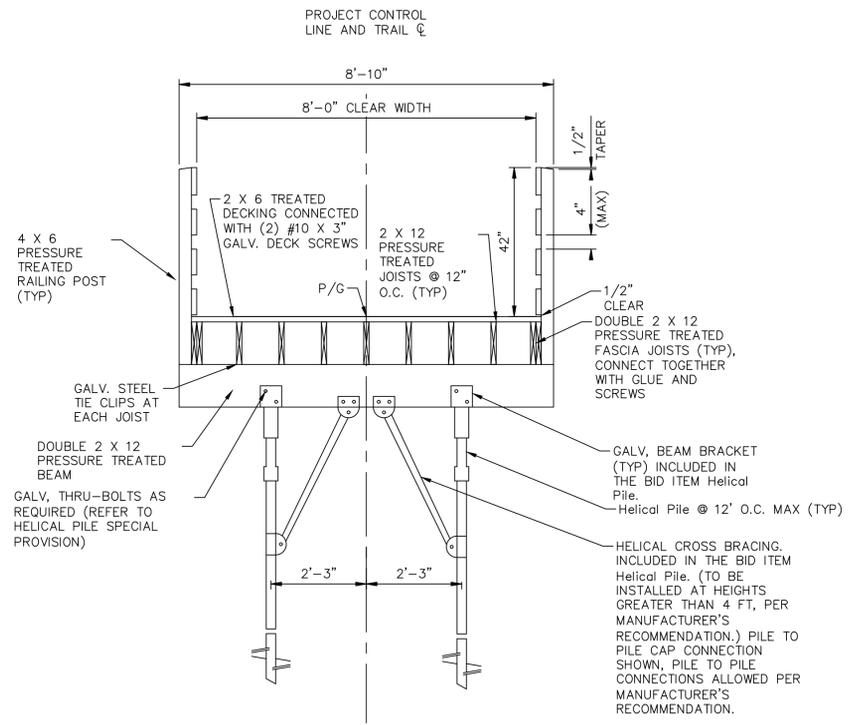
**PATHWAY**

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

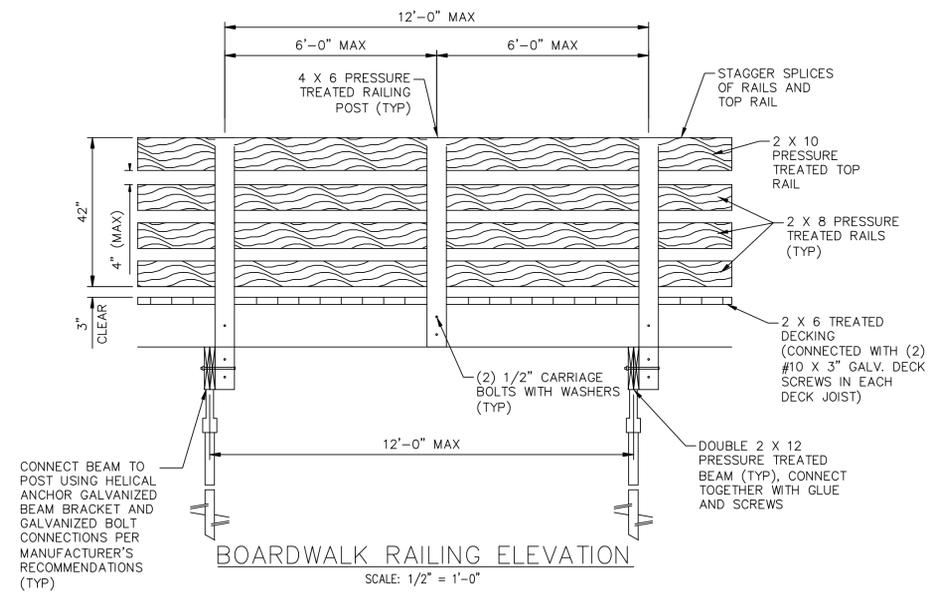
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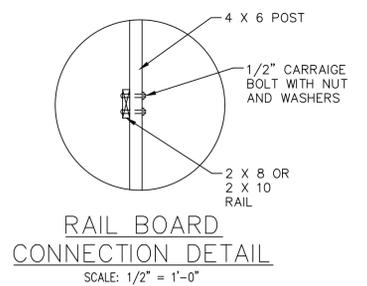
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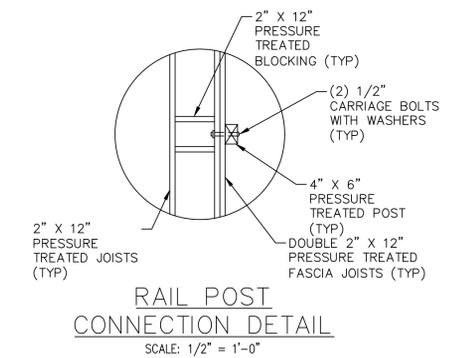
PROPOSED TYPICAL BOARDWALK SECTION



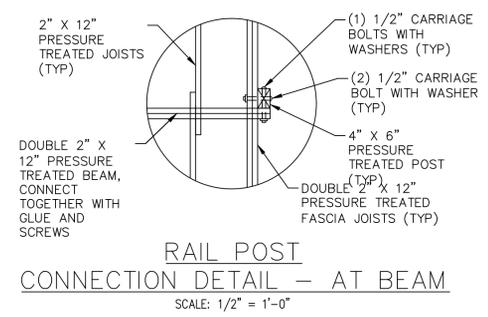
BOARDWALK RAILING ELEVATION  
SCALE: 1/2" = 1'-0"



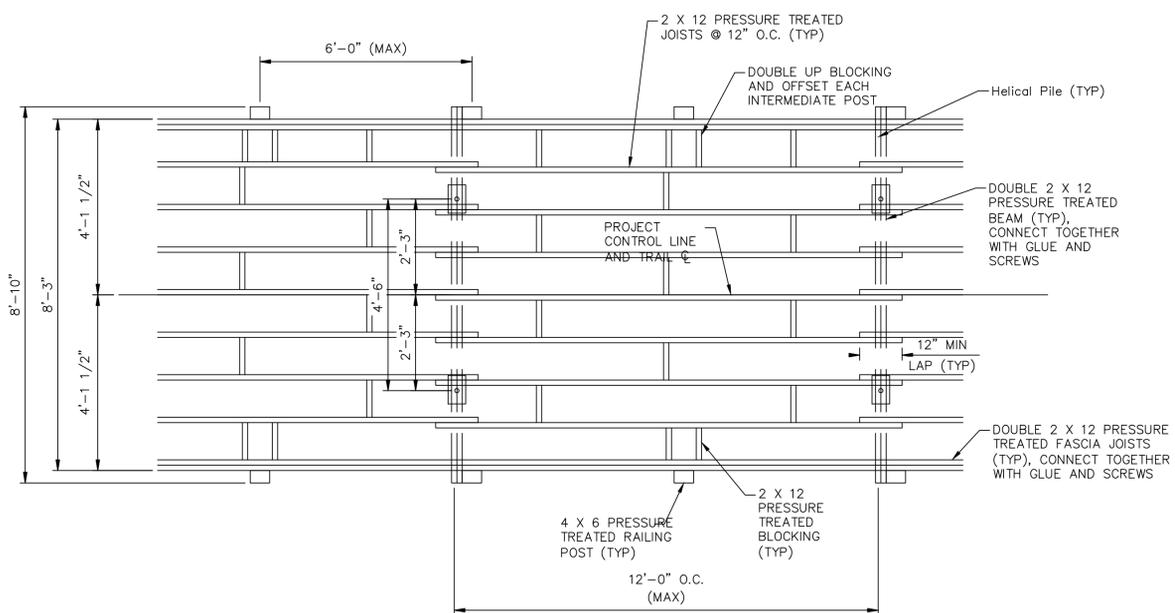
RAIL BOARD CONNECTION DETAIL  
SCALE: 1/2" = 1'-0"



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<sub>bo</sub> = 1100 PSI  
 WOOD JOISTS: SOUTHERN PINE NO. 1 TREATED f<sub>bo</sub> = 1000 PSI  
 WOOD PIER CAP: SOUTHERN PINE NO. 1 TREATED f<sub>bo</sub> = 1000 PSI  
 WOOD RAILING: SOUTHERN PINE NO. 2 TREATED f<sub>bo</sub> = 1350 PSI  
 WOOD BLOCKING: SOUTHERN PINE NO. 2 TREATED f<sub>bo</sub> = 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.

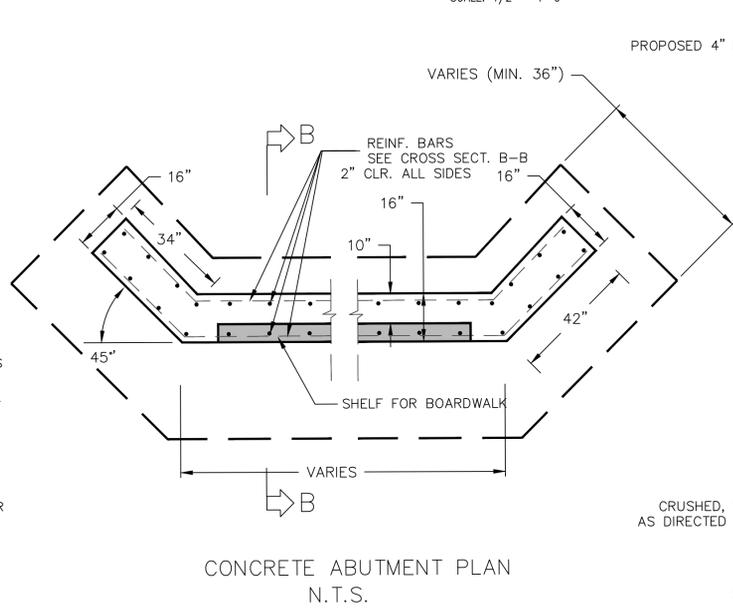
ALL FASTENERS INCLUDING SCREWS, BOLTS, NUTS AND WASHERS SHALL BE PER SECTION 908 OF THE 2020 MDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION. ALL SCREWS, BOLTS, AND NAILS SHALL BE HOT-DIPPED GALVANIZED STEEL.

ALL METAL HARDWARE SHALL BE HOT-DIPPED GALVANIZED STEEL.

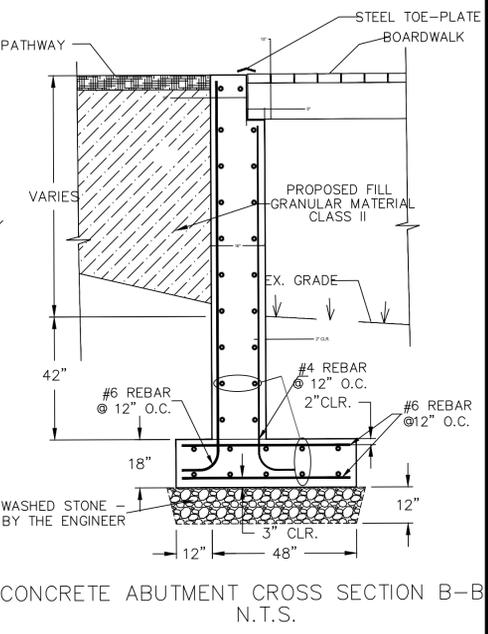
VERTICAL AND BATTERED HELICAL PILES SHALL BE INSTALLED TO A MINIMUM ULTIMATE PILE CAPACITY OF 9 KIPS.

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

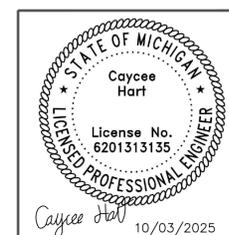
DESIGN HELICAL PILE SYSTEM FOR A DESIGN LIFE OF 50 YEARS.



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: VI

REVISIONS:		
DATE	BY:	COMMENTS:
10.03.25	CH	BID SET

SHEET:

**LEGEND**

- — — — — PROPERTY LINE
- - - - - 100 YEAR FLOODPLAIN BOUNDARY
- - - - - WETLAND BOUNDARY
- - - - - SOIL BOUNDARY

**SOIL MIXTURE**

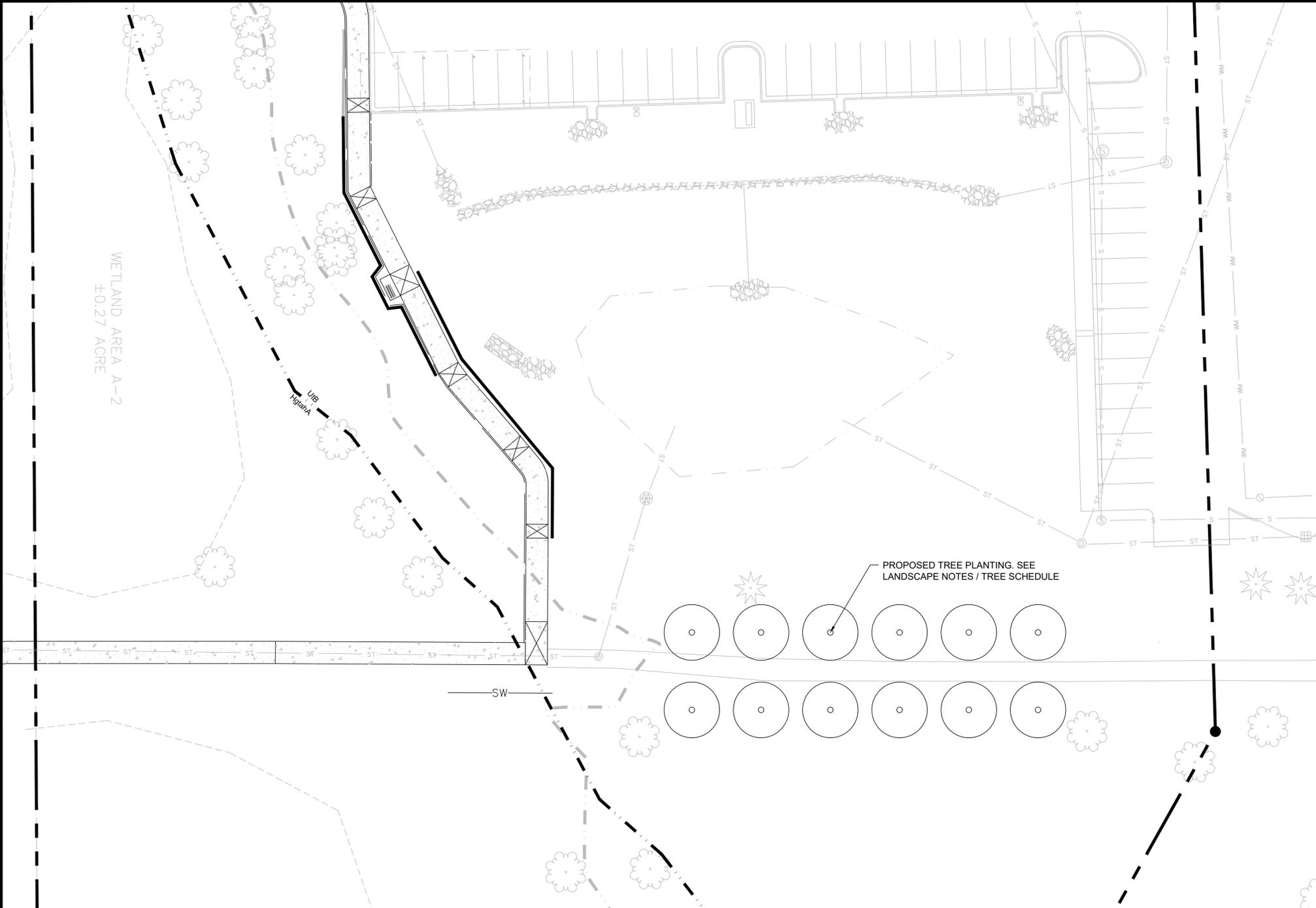
1. SOIL MIXTURE SHALL CONSIST OF TWO PARTS OF TOPSOIL AND ONE PART SAND, AS DESCRIBED BELOW.
  - a. TOPSOIL FOR USE IN PREPARING SOIL MIXTURE FOR BACKFILLING PLANT OPENINGS SHALL BE FERTILE, FRIABLE, AND OF A LOAMY CHARACTER; REASONABLY FREE OF SUBSOIL, CLAY LUMPS, BRUSH WEEDS AND OTHER LITTER; FREE OF ROOTS, STUMPS, STONES LARGER THAN 2" IN ANY DIRECTION, AND OTHER EXTRANEIOUS OR TOXIC MATTER HARMFUL TO PLANTGROWTH. IT SHALL CONTAIN THREE (3) TO FIVE (5) PERCENT DECOMPOSED ORGANIC MATTER.
  - b. SAND SHALL BE COARSE, CLEAN, WELL-DRAINING, NATIVE SAND.
2. TREES SHALL BE PLANTED IN THE EXISTING NATIVE SOIL ON SITE, UNLESS DETERMINED TO BE UNSUITABLE - AT WHICH POINT THE CONTRACTOR SHALL CONTACT THE PROJECT LANDSCAPE ENGINEER TO DISCUSS ALTERNATE RECOMMENDATION PRIOR TO PLANTING.

**PLANTING PROCEDURES**

1. THE CONTRACTOR SHALL CLEAN WORK AND SURROUNDING AREAS OF ALL RUBBISH OR OBJECTIONABLE MATTER DAILY. ALL MORTAR, CEMENT, BUILDING MATERIALS, AND TOXIC MATERIAL SHALL BE COMPLETELY REMOVED FROM PLANTING AREAS. THESE MATERIALS SHALL NOT BE MIXED WITH THE SOIL. SHOULD THE CONTRACTOR FIND SUCH SOIL CONDITIONS IN PLANTING AREAS WHICH WILL ADVERSELY AFFECT THE PLANT GROWTH, THE CONTRACTOR SHALL IMMEDIATELY CALL IT TO THE ATTENTION OF THE PROJECT ENGINEER. FAILURE TO DO SO BEFORE PLANTING SHALL MAKE THE CORRECTIVE MEASURES THE RESPONSIBILITY OF THE CONTRACTOR.
2. VERIFY LOCATIONS OF ALL UTILITIES, CONDUITS, SUPPLY LINES AND CABLES, INCLUDING BUT NOT LIMITED TO: ELECTRIC, GAS, WATER, SANITARY SEWER, STORMWATER SYSTEMS, CABLE, AND TELEPHONE. PROPERLY MAINTAIN AND PROTECT EXISTING UTILITIES.
3. TEST ALL TREE OPENINGS WITH WATER BEFORE PLANTING TO ASSURE PROPER DRAINAGE PERCOLATION IS AVAILABLE. NO ALLOWANCE WILL BE MADE FOR LOST PLANTS DUE TO IMPROPER DRAINAGE. IF POOR DRAINAGE EXISTS NOTIFY THE PROJECT ENGINEER.
4. TREES SHALL BE SET PLUMB AND HELD IN POSITION UNTIL THE PLANTING MIXTURE HAS BEEN FLUSHED INTO PLACE WITH A SLOW, FULL HOSE STREAM. ALL PLANTING SHALL BE PERFORMED BY PERSONNEL FAMILIAR WITH PLANTING PROCEDURES AND UNDER THE SUPERVISION OF A QUALIFIED LANDSCAPE FOREMEN.
5. PRIOR TO EXCAVATION OF TREE OPENINGS, AN AREA EQUAL TO TWO TIMES THE DIAMETER OF THE ROOT BALL SHALL BE ROTO-TILLED TO A DEPTH EQUAL TO THE DEPTH OF THE ROOT BALL.
6. EXCAVATION OF TREE OPENINGS SHALL BE PERFORMED USING EXTREME CARE TO AVOID DAMAGE TO SURFACE AND SUBSURFACE ELEMENTS SUCH AS UTILITIES OR HARDSCAPE ELEMENTS, FOOTERS AND PREPARED SUB-BASES.
7. IN CONTINUOUS SHRUB AND GROUND COVER BEDS, THE ROTO-TILLED PERIMETER SHOULD EXTEND TO A DISTANCE OF ONE FOOT BEYOND THE DIAMETER OF A SINGLE ROOT BALL. THE BED SHALL BE TILLED TO A DEPTH EQUAL TO THE ROOT BALL DEPTH PLUS 6".
8. TREE OPENINGS FOR WELL DRAINED SOILS SHALL BE DUG SO THAT THE BOTTOM OF THE ROOT BALL WILL REST ON UNDISTURBED SOIL AND THE TOP OF THE ROOT BALL WILL BE FLUSH WITH FINISH GRADE. IN POORLY DRAINED SOILS THE
9. TREE OPENING SHALL BE DUG SO THAT THE ROOT BALL RESTS ON UNDISTURBED SOIL AND THE TOP OF THE ROOT BALL IS 1" ABOVE FINISH GRADE. PLANT PIT WALLS SHALL BE SCARIFIED PRIOR TO PLANT INSTALLATION.
10. TREES AND SHRUBS SHALL BE SET STRAIGHT AT AN ELEVATION THAT, AFTER SETTLEMENT, THE PLANT CROWN WILL STAND ONE (1) TO TWO (2) INCHES ABOVE GRADE. EACH PLANT SHALL BE SET IN THE CENTER OF THE PIT. SOIL MIXTURE SHALL BE BACK FILLED, THOROUGHLY TAMPED AROUND THE BALL, AND SETTLED BY WATER (AFTER TAMPING).
11. FILL HOLE WITH SOIL MIXTURE, MAKING CERTAIN ALL SOIL IS SATURATED. TO DO THIS, FILL HOLE WITH WATER AND ALLOW TO SOAK MINIMUM TWENTY (20) MINUTES, STIRRING IF NECESSARY TO GET SOIL THOROUGHLY WET. PACK LIGHTLY WITH FEET, ADD MORE WET SOIL MIXTURE. DO NOT COVER TOP OF BALL WITH SOIL MIXTURE.
12. ALL BURLAP, ROPE, WIRES, BASKETS, ETC., SHALL BE REMOVED FROM THE SIDES AND TOPS OF BALLS, BUT NO BURLAP SHALL BE PULLED FROM UNDERNEATH.

**WATER**

13. WATER NECESSARY FOR PLANTING AND MAINTENANCE SHALL BE OF SATISFACTORY QUALITY TO SUSTAIN ADEQUATE PLANT GROWTH AND SHALL NOT CONTAIN HARMFUL, NATURAL OR MAN-MADE ELEMENTS DETRIMENTAL TO PLANTS. WATER MEETING THE ABOVE STANDARD SHALL BE OBTAINED ON THE SITE FROM THE OWNER, IF AVAILABLE, AND THE CONTRACTOR SHALL BE RESPONSIBLE TO MAKE ARRANGEMENTS FOR ITS USE BY HIS TANKS, HOSES, SPRINKLERS, ETC....IF SUCH WATER IS NOT AVAILABLE AT THE SITE, THE CONTRACTOR SHALL PROVIDE SATISFACTORY WATER FROM SOURCES OFF THE SITE AT NO ADDITIONAL COST TO THE TOWNSHIP.



TREE SCHEDULE			
BOTANICAL / COMMON NAME	SIZE	CONTAINER	QUANTITY
PINUS STROBUS / EASTERN WHITE PINE	6-12" MINIMUM	BALL AND BURLAP	12*
PICEA GLACOA / WHITE SPRUCE	6-12" MINIMUM	BALL AND BURLAP	12*

**LANDSCAPE NOTES:**

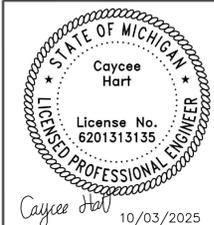
1. \*A TOTAL OF 12 TREES SHALL BE PLANTED ON MERIDIAN TOWNSHIP'S PROPERTY.
2. TWO OPTIONS FOR TREE SPECIES ARE INCLUDED IN THE TREE SCHEDULE. THE CONTRACTOR MAY SELECT ONE OF THE SPECIES TO BE PLANTED BASED BEST AVAILABILITY / PRICE.
3. THE LOCATION OF THE PLANTINGS ARE SHOWN CONCEPTUALLY ON THIS PLAN. 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:**  
 HgtaA - Houghton Muck, 0 to 1 percent slopes  
 UIB - Urban Land-Marlette Complex, 2 to 12 percent slopes



**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

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