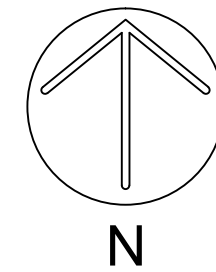


FOR
MERIDIAN TOWNSHIP
INGHAM COUNTY, MICHIGAN



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 MAIN SANITARY SEWER PATHWAYS
WOLVERINE PIPE LINE 8105 VALLEYWOOD LANE PORTAGE, MI 49024-5251 231.323.2491	PETROLEUM
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 ROAD RIGHTS OF WAY

Sheet List Table	
Sheet Number	Sheet Title
1	COVER SHEET
2	SITE PLAN
3	SESC PLAN
4	SESC NOTES AND DETAILS
5	TYPICAL SECTION
6	TYPICAL DETAILS



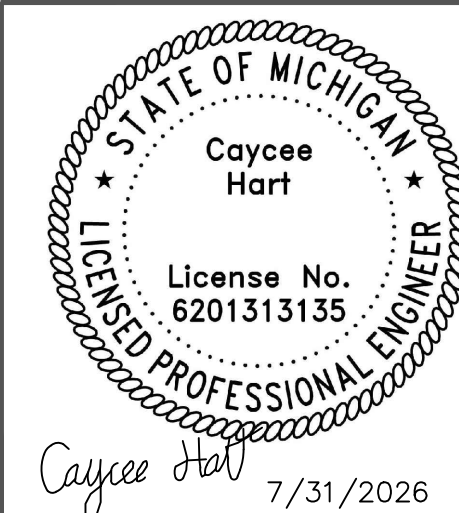
STANDARD CONSTRUCTION NOTES

1. 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 other construction within the public right-of-way.
2. 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.
3. 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.
4. 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.
5. The contractor shall notify "MISS DIG" 1-800-482-7171 at least 72 hours prior to the start of construction.
6. 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 therefrom from the money due the contractor.
7. 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.
8. 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.
9. 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.
10. Trees and shrubs are to be protected during construction and bored where necessary.
11. Existing fences shall be removed and restored to their original condition or better where in conflict with construction.
12. Driveways, culverts, ditches, drain tile, tile fields, drainage structures, etc., that are disturbed by the contractor's operations shall be immediately restored.
13. 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.
14. All ditch slopes shall have established vegetation and be protected from erosion.
15. All utility poles in close proximity to construction shall be supported in a manner satisfactory to the utility owner.
16. 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

1. 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.
2. Three (3) inches of compacted sand base shall be placed under all pathways and sidewalks.
3. All bituminous aprons shall be two and one-half ($2\frac{1}{2}$) inches thick, unless otherwise noted.
4. Property irons shall be maintained by the Contractor.
5. All existing concrete and bituminous to be removed shall be sawcut. All bituminous removal shall be considered incidental to construction.
6. All aggregate base material shall be four (4) inches of 22A.
7. All tree (less than 6") and shrub removal shall be considered part of subgrade preparation.
8. 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.
9. All plant material not marked for removal shall be protected.
10. Bituminous drives shall be sawcut 18" on either side of proposed pathway.
11. The maximum longitudinal slope is 5% (up to an absolute maximum of $8\frac{3}{4}\%$ at the direction of the Engineer) and the maximum cross slope is 2%.
12. Expansion joints shall be placed at approximately 100' intervals and shall be $\frac{1}{2}$ " thick. Contraction joints shall be sawcut to a depth of $\frac{1}{4}$ of the depth of the concrete.
13. All lumber to be pressure treated (Osmore 33 or equal) to 0.4 retention.
14. All items not covered under a specific pay item shall be considered incidental.

Call 811 before you dig.



Meridian Charter Township
Ingham County, Michigan
PATHWAY

ELPS ADMINISTRATION BUILDING PATHWAY
6157 TOWAR ROAD
SW 1/4 SECTION 6, T4N, R1W, MERIDIAN TOWNSHIP,
INGHAM COUNTY, MICHIGAN

DRAWN BY: CH

CHECKED BY: YI

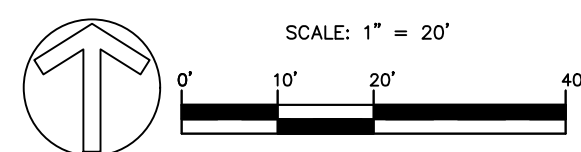
REVISIONS:

DATE	BY:	COMMENTS:
7.31.26	CH	BID PLANS

SHEET:

1 - COVER SHEET

_____ PROPERTY LINE
 - - - - - PATHWAY EASEMENT
 [Concrete Pathway Area] CONCRETE PATHWAY



WOLVERINE PIPE LINE COMPANY 219-844-9510

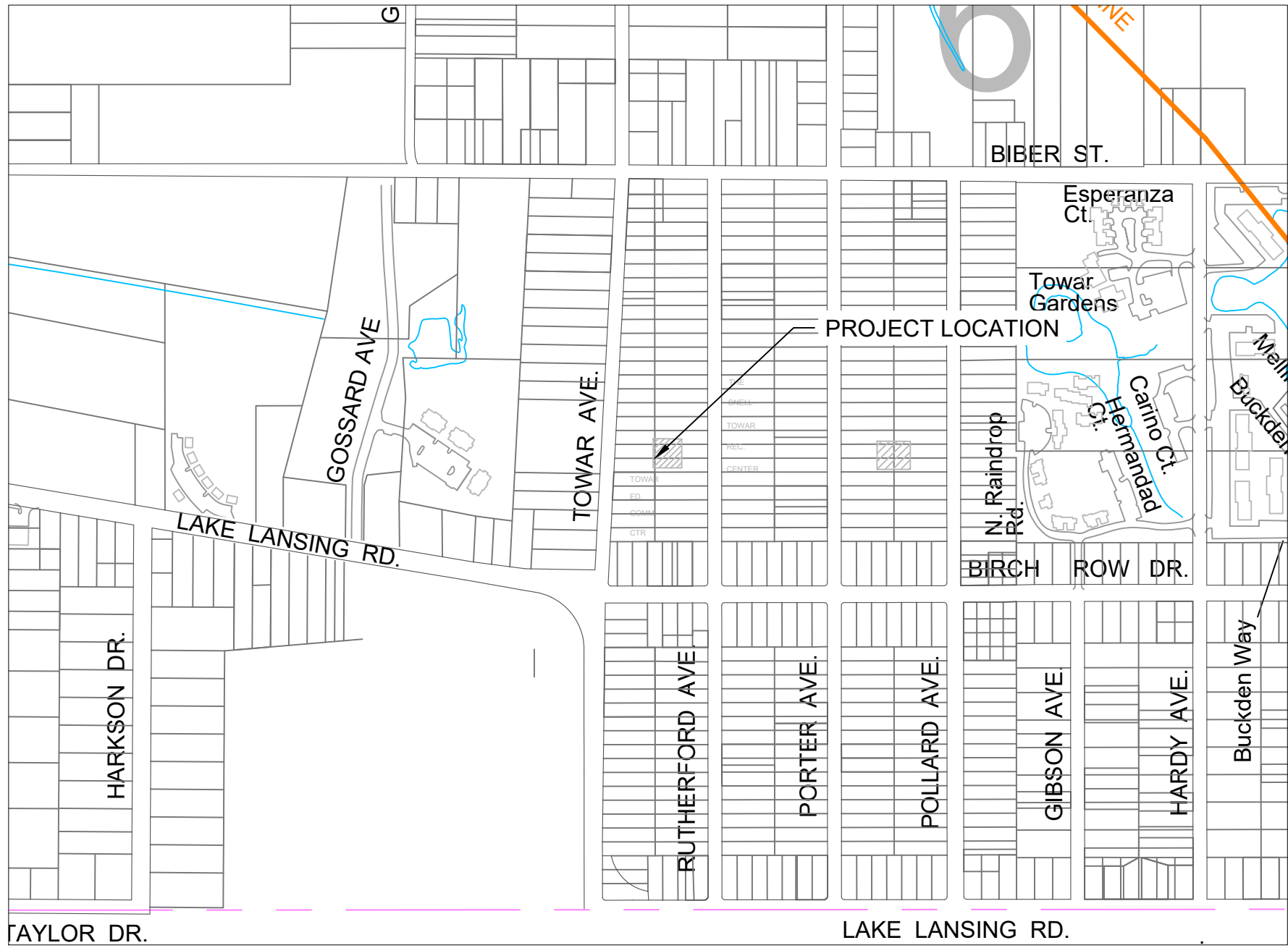


ELPS ADMINISTRATION BUILDING PATHWAY
6157 TOWAR ROAD
SW 1/4 SECTION 6, T4N, R1W, MERIDIAN TOWNSHIP,
INGHAM COUNTY, MICHIGAN

CHECKED BY: YI

SHEET:	
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THE PATHWAY PROJECT IS LOCATED 0' OF TOWAR SNELL DRAIN.

RECOMMENDED CONSTRUCTION SCHEDULING & SEQUENCING

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
INSTALL SESC MEASURES												
GRADE THE SITE FOR THE PROPOSED PATHWAY												
CONSTRUCT THE PATHWAY												
SITE CLEANUP AND RESTORATION												
REMOVE SESC MEASURES ONCE THE SITE IS STABILIZED												

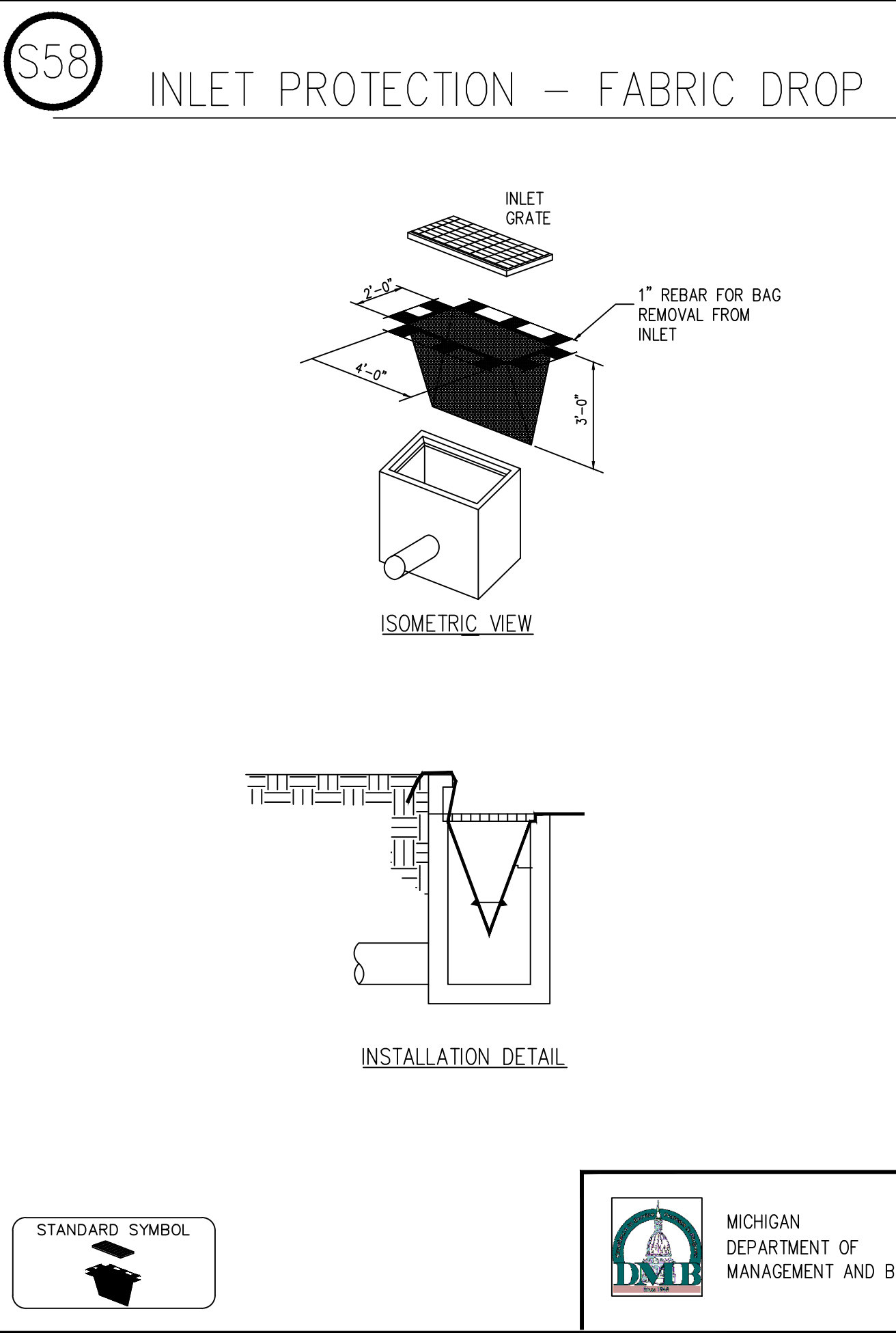
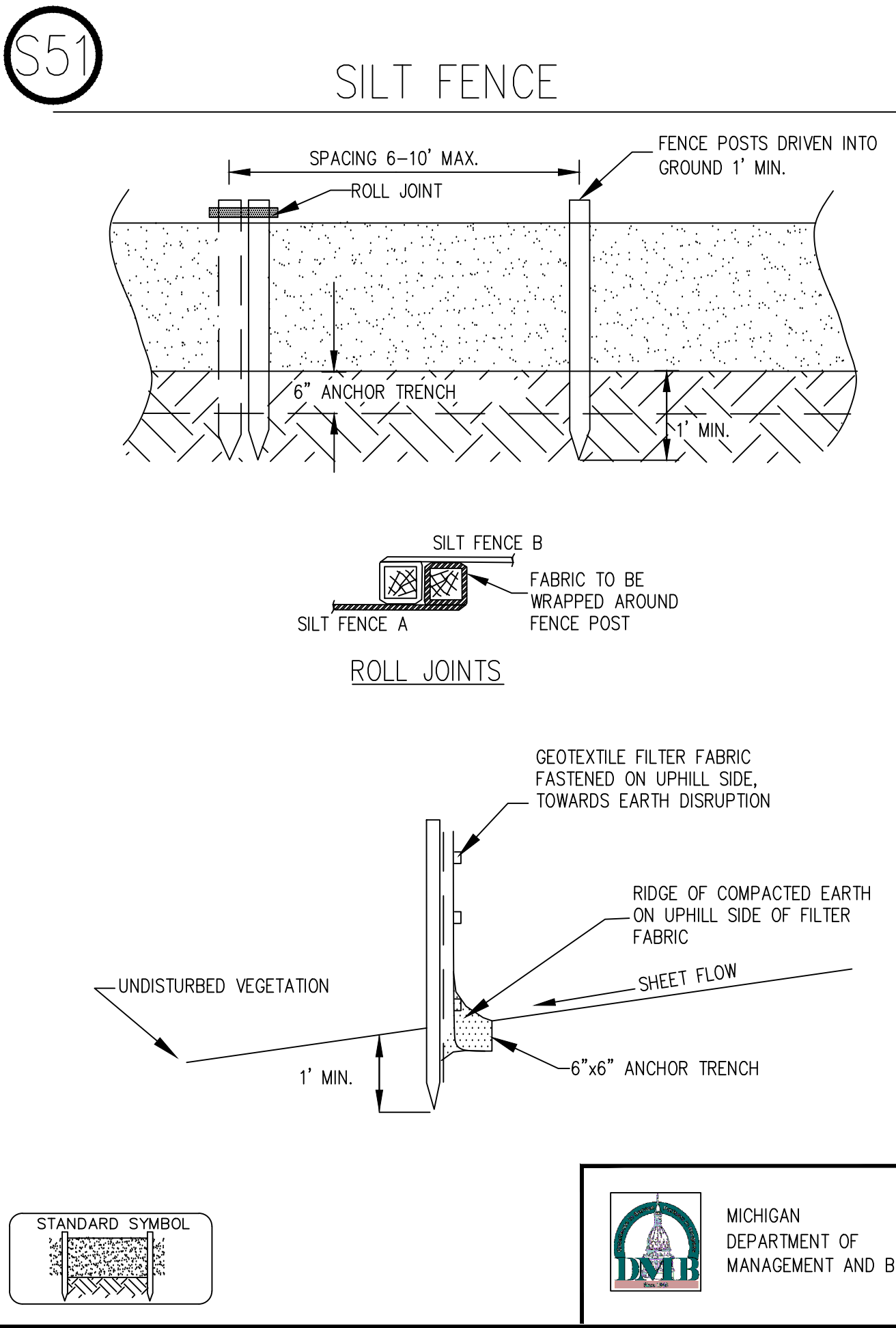
TAX ID: 06-327-070
LEGAL DESCRIPTION: LOTS 30, 31, 32, 69, 70 & 71 EXC BEG AT NW COR OF LOT 32 - E ALNG N LN OF LOT 32 122.7 FT - S PLL WITH & 30 FT W FROM E LN OF LOTS 31 & 32 85 FT - W TO W LN OF LOT 31 - N'LY TO POB TOWAR GARDENS SUB. SEC. 6 T4NR1W

TAX ID: 06-326-069
LEGAL DESCRIPTION: LOTS 31 & 32, TOWAR GARDENS DESC AS: BEG AT NW COR OF LOT 32 - E ALNG N LN OF LOT 32 122.7 FT - S 85 FT PLL WITH & 30 FT W FROM E LN OF LOTS 31 & 32 - W PLL WITH N LN OF LOT 32 TO W LN OF LOT 31 - N'LY TO POB SEC. 6 T4NR1W

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.

SOILS
UeB URBAN LAND BOYER-SPINKS COMPLEX 0-10%



SILT FENCE SPECIFICATIONS

- When**
- A temporary measure for preventing sediment movement.
- Why**
- Used to prevent sediment suspended in runoff from leaving an earth change area.
- Where**
- Use adjacent to critical areas, wetlands, base of slopes, and watercourses.
- How**
- Install parallel to a contour.
 - The silt fence should be made of woven geotextile fabric.
 - Silt fence should accomodate no more than 1/2 to 1 acre of drainage per 100' of fence and on slopes less than 1:2 (v:h).
 - Dig a 6" trench along the area where the fence is to be installed.
 - Place 6" of the silt fence bottom flap into the trench.
 - Backfill the trench with soil and compact the soil on both sides. Create a small ridge on the up-slope side of the fence.
 - Install wooden stakes 6 - 10' apart and drive into the ground a minimum of 12".
 - Staple the geotextile fabric to the wooden stakes.
 - Join sections of silt fence by wrapping ends together (See drawing).
- Maintenance**
- Inspect frequently and immediately after each storm event. Check several times during prolonged storm events. If necessary, repair immediately.
 - If the sediment has reached 1/3 the height of the fence, the soil should be removed and disposed of in a stable upland site.
 - The fence should be re-installed if water is seeping underneath it or if the fence has become ineffective.
 - Silt fence should be removed once vegetation is established and up-slope area has stabilized.

SILT FENCE SPECIFICATIONS

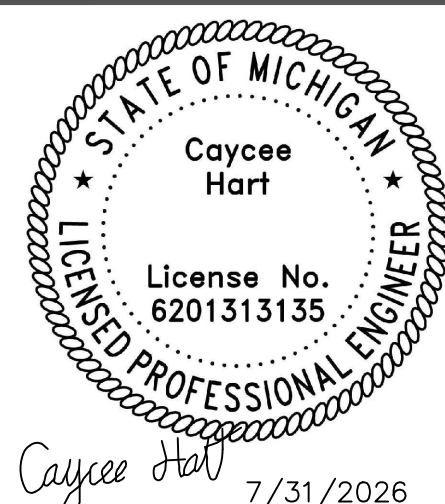
- Limitations**
- Silt fence may cause temporary ponding and could fail if too much water flows through the area.
 - Do not use in areas with concentrated flows.
 - Chance of failure increases if fence is installed incorrectly or if sediment accumulation is not removed.

INLET PROTECTION - FABRIC DROP SPECIFICATIONS

- When**
- When sediment laden stormwater requires treatment before entering a stormwater drainage system.
- Why**
- To prevent sediment from entering stormwater systems.
- Where**
- Use in or at stormwater inlets, especially at construction sites or in streets.
- How**
- A filter fabric bag is hung inside the inlet, beneath the grate.
 - Replace grate, which will hold bag in place.
 - Anchor filter bag with 1" rebar for removal from inlet.
 - Flaps of bag that extend beyond the bag can be buried in soil in earth areas.
- Maintenance**
- Drop inlet filters should be inspected routinely and after each major rain event.
 - Damaged filter bags should be replaced.
 - Clean and/or replace filter bag when 1/2 full.
 - Replace clogged fabric immediately.
 - If needed, initiate repairs immediately upon inspection.
 - Remove entire protective mechanism when upgradient areas are stabilized and streets have been swept.
- Limitations**
- Can only accomodate small flow quantities.
 - Requires frequent maintenance.
 - Ponding may occur around storm drains if filter is clogged.

Call 811 before you dig.

WOLVERINE PIPE LINE COMPANY 219-844-9510



Meridian Charter Township
Ingham County, Michigan
PATHWAY

ELPS ADMINISTRATION BUILDING PATHWAY
6157 TOWAR ROAD
SW 1/4 SECTION 6, T4N, R1W, MERIDIAN TOWNSHIP,
INGHAM COUNTY, MICHIGAN

DRAWN BY: CH

CHECKED BY: YI

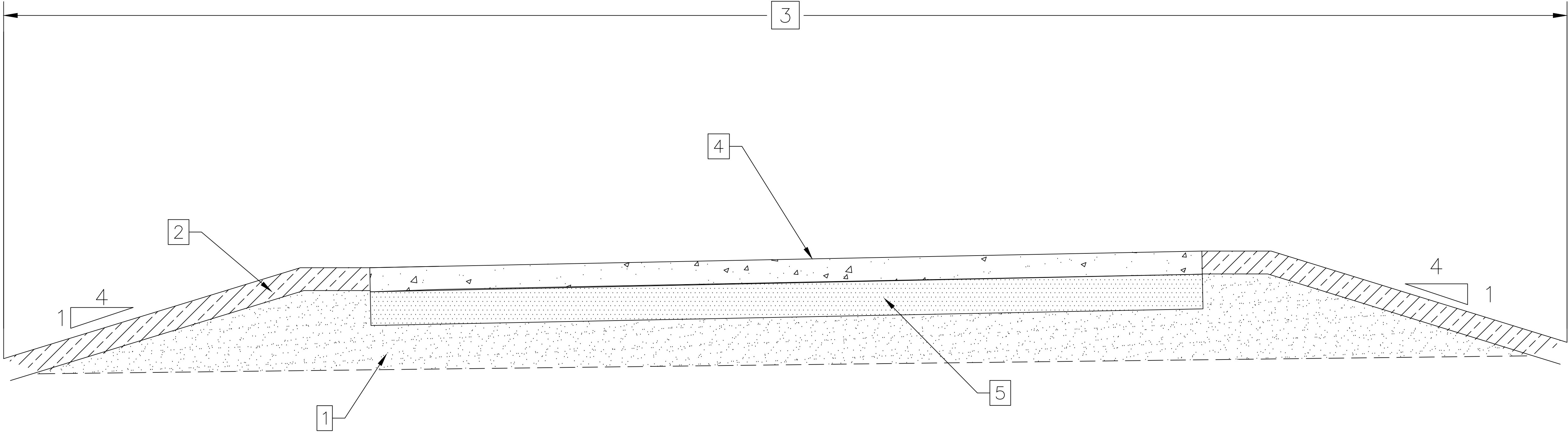
REVISIONS:

DATE	BY:	COMMENTS:
7.31.26	CH	BID PLANS

SHEET:

4 - SESC NOTES AND DETAILS

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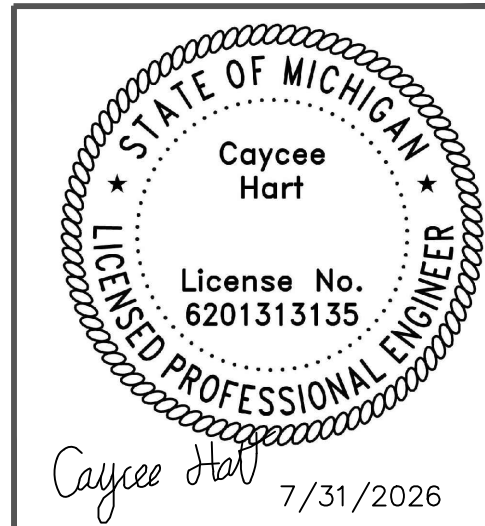
TYPICAL SECTION: CONCRETE PATHWAY

PAY ITEM LEGEND:

- 1 ASPHALT MILLINGS
- 2 SITE RESTORATION, 3" SCREENED TOPSOIL
- 3 SHARED USE PATH, GRADING
- 4 SHARED USE PATH, 4" CONCRETE
- 5 SHARED USE PATH, AGGREGATE (4" ASPHALT MILLINGS)

GENERAL NOTES:

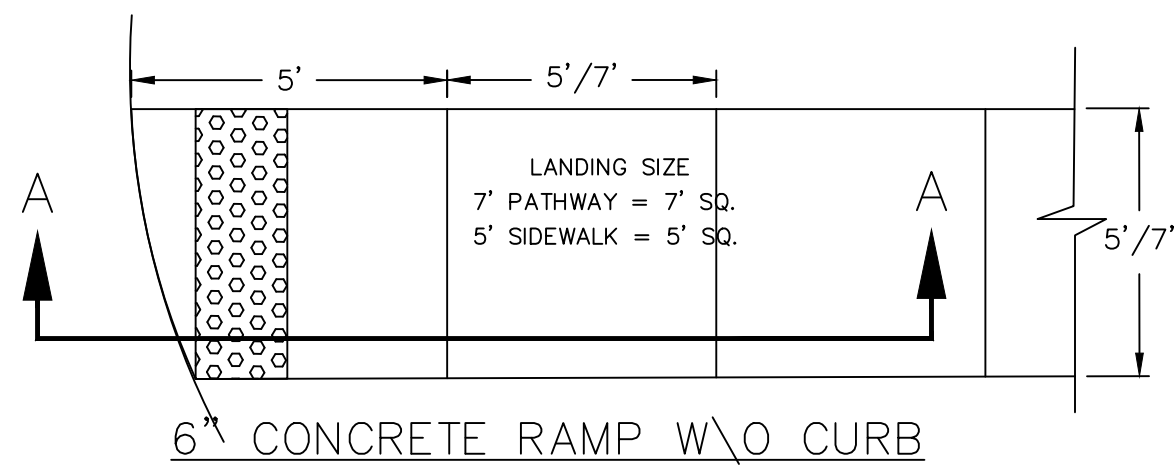
- CROSS-SECTIONS ARE NOT TO SCALE.
- SALVAGE OR REMOVE EXISTING TOPSOIL WITHIN THE GRADING LIMITS, OR AS DIRECTED BY THE ENGINEER. REMOVAL AND DISPOSAL WILL BE PAID FOR AS EXCAVATION, EARTH.
- TOPSOIL FOR SITE RESTORATION MAY BE SALVAGED FROM SITE, BUT MUST BE SCREENED OR RAKED TO REMOVE 1" OR GREATER DEBRIS.
- FOR SITE RESTORATION, USE SEED MEETING MDOT THM MIXTURE.



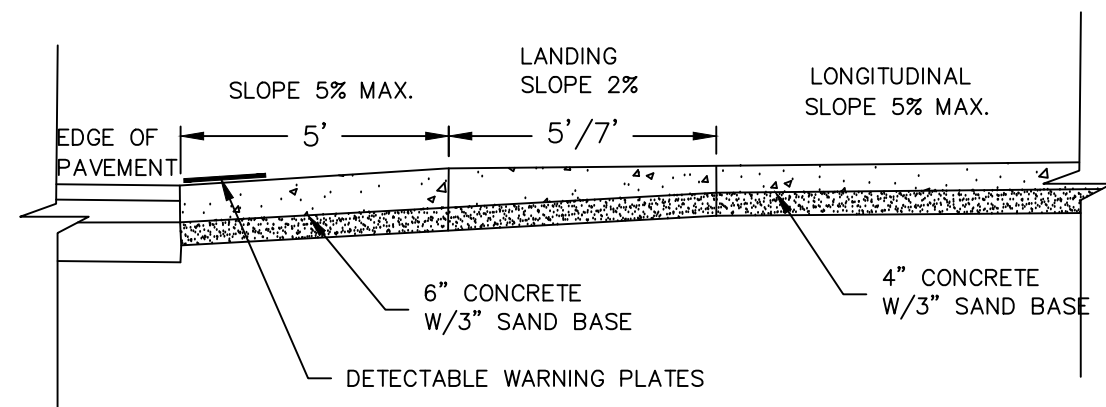
Meridian Charter Township Ingham County, Michigan		
PATHWAY		
ELPS ADMINISTRATION BUILDING PATHWAY 6157 TOWAR ROAD		
SW 1/4 SECTION 6, T4N, R1W, MERIDIAN TOWNSHIP, INGHAM COUNTY, MICHIGAN		
DRAWN BY: CH	CHECKED BY: YI	

REVISIONS:		
DATE	BY:	COMMENTS:
7.31.26	CH	BID PLANS
SHEET:		
5 - TYPICAL SECTION		

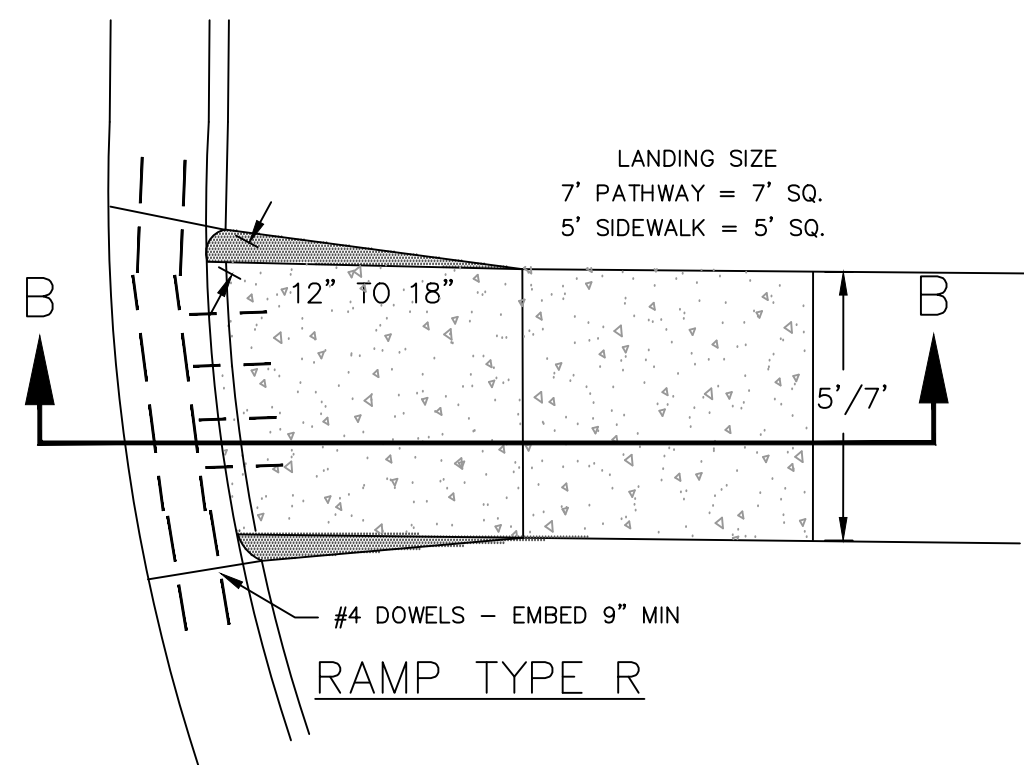
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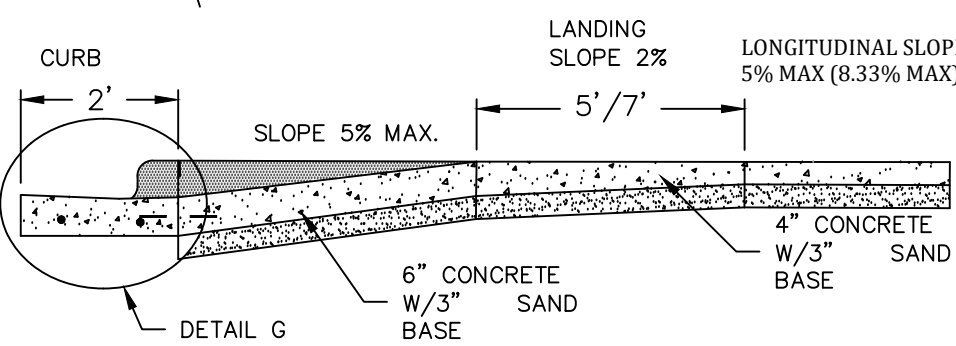
6" CONCRETE RAMP W/O CURB



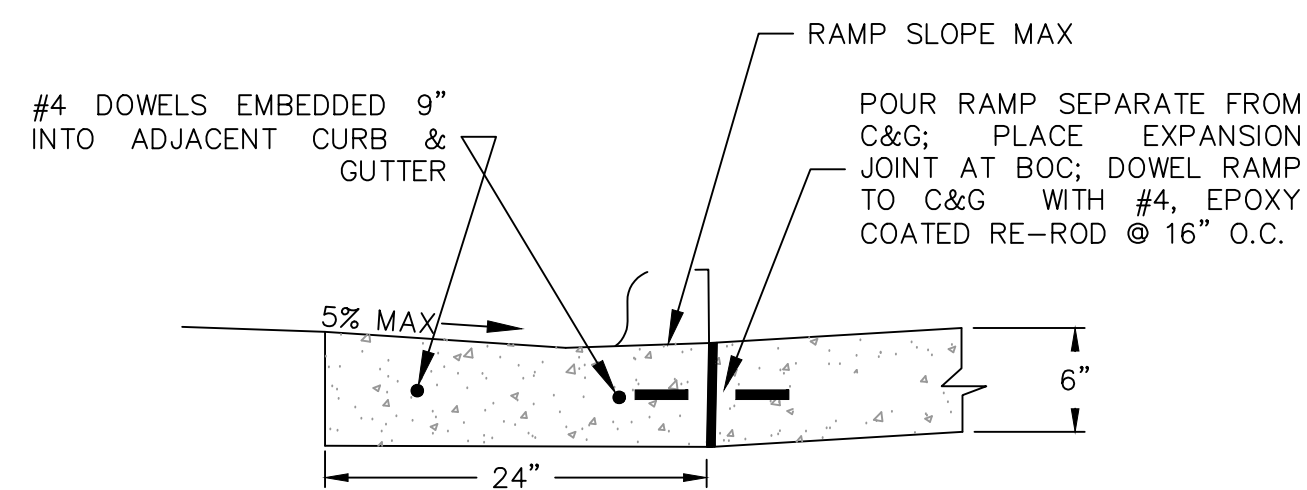
CROSS SECTION A-A



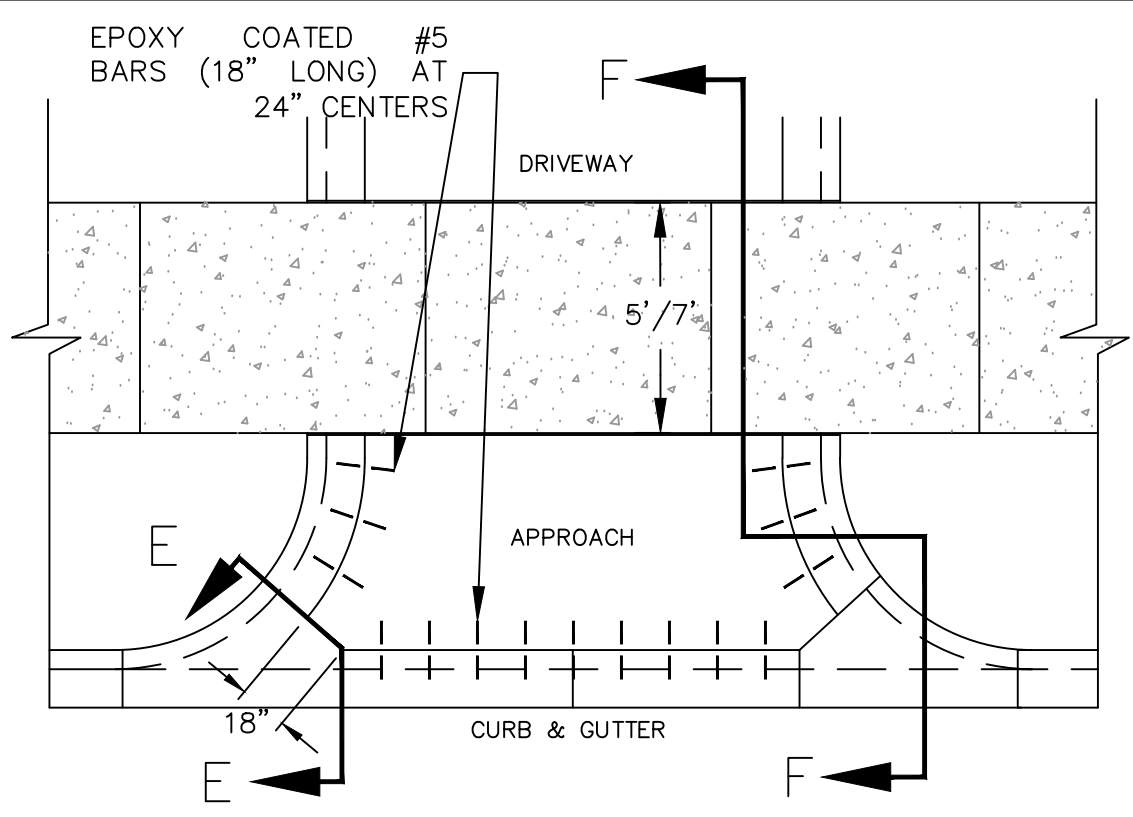
RAMP TYPE R



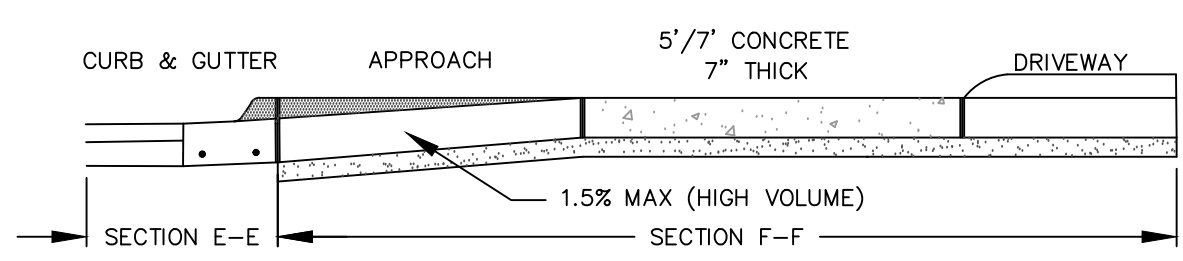
CROSS SECTION B-B



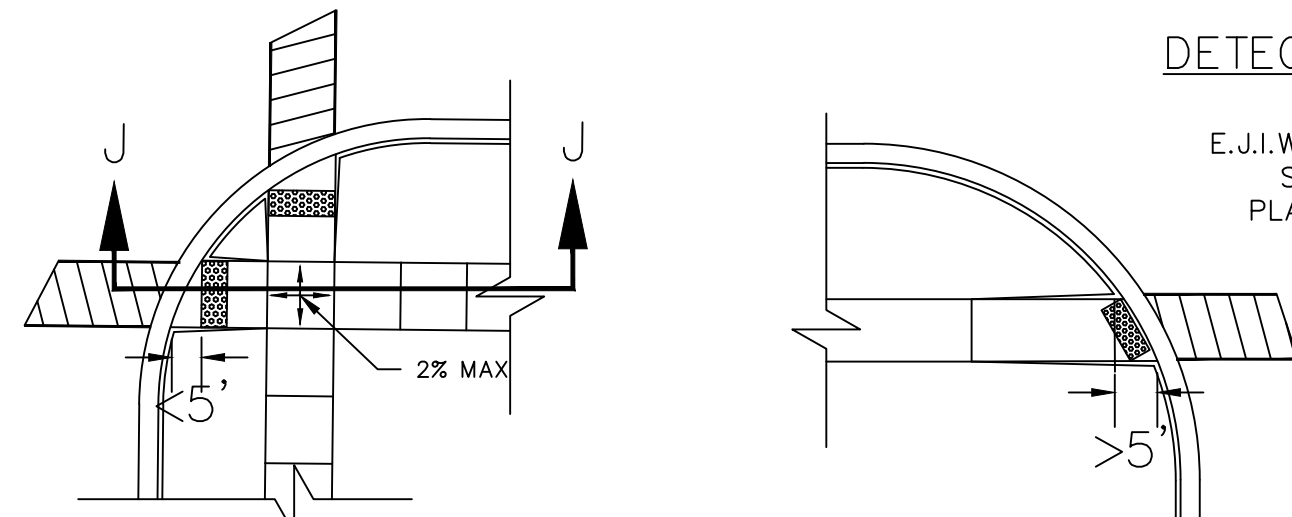
DETAIL G



TYP. COMMERCIAL DRIVEWAY PLAN

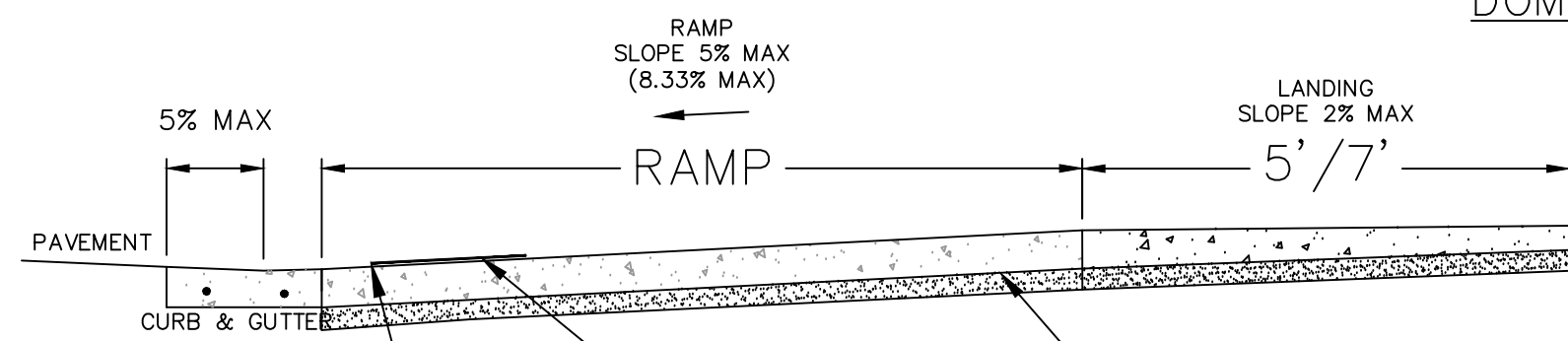


CROSS SECTIONS E-E; F-F



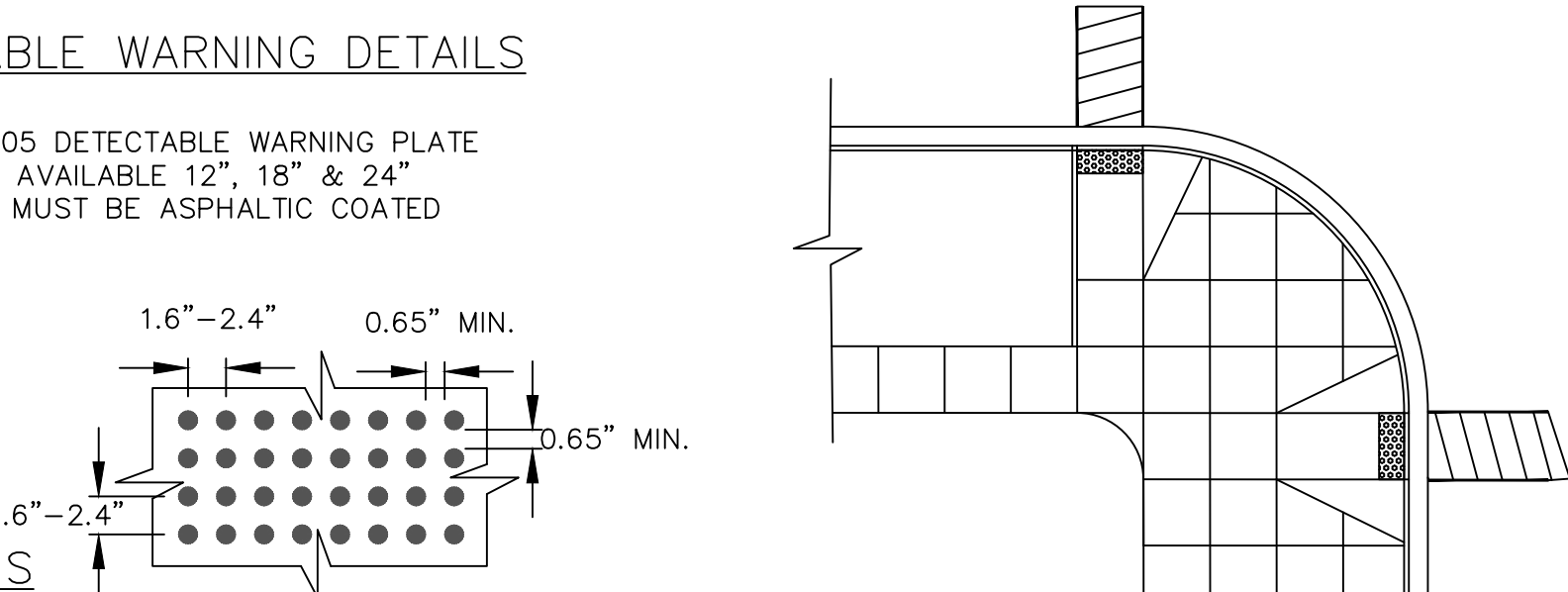
RAMPS LOCATED IN RADIUS

RAMP LOCATED IN RADIUS



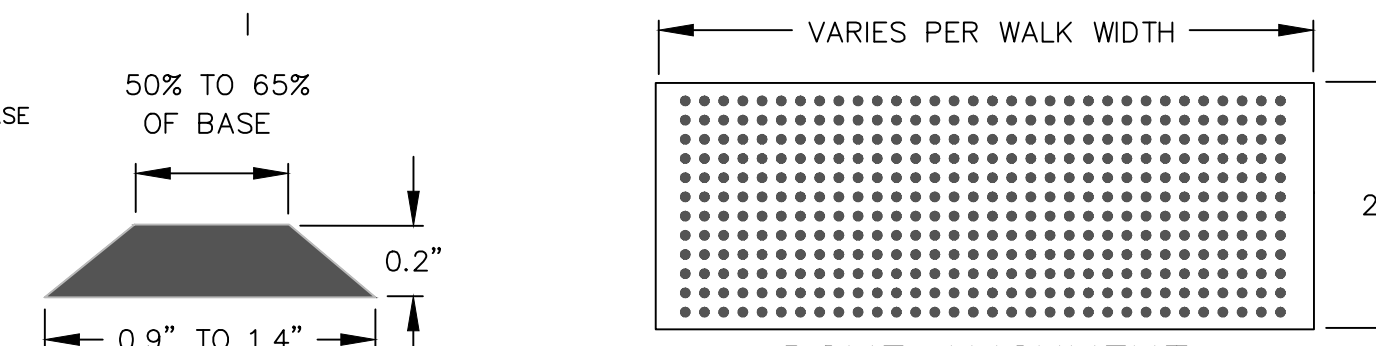
SECTION J-J

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.



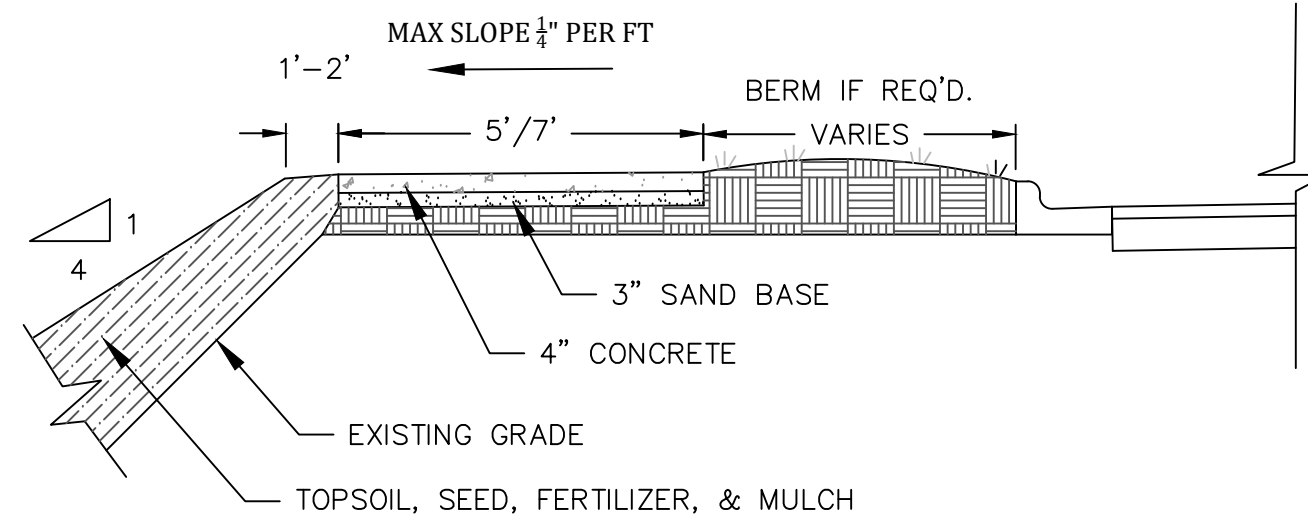
DOMES SPACING

RAMP PERPENDICULAR TO TANGENT CURB

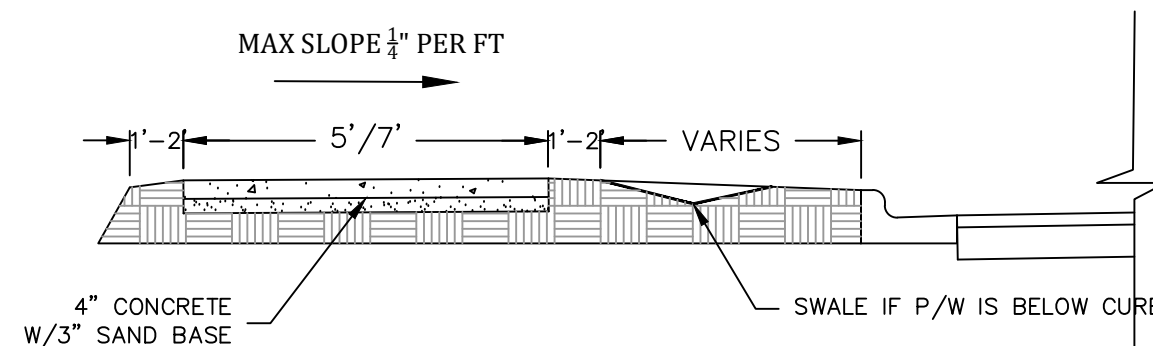


DOMES SECTION

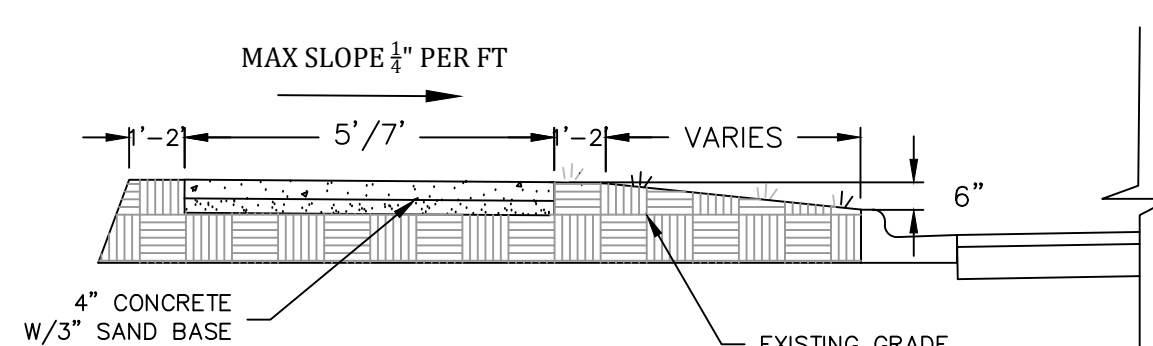
DOMES ALIGNMENT



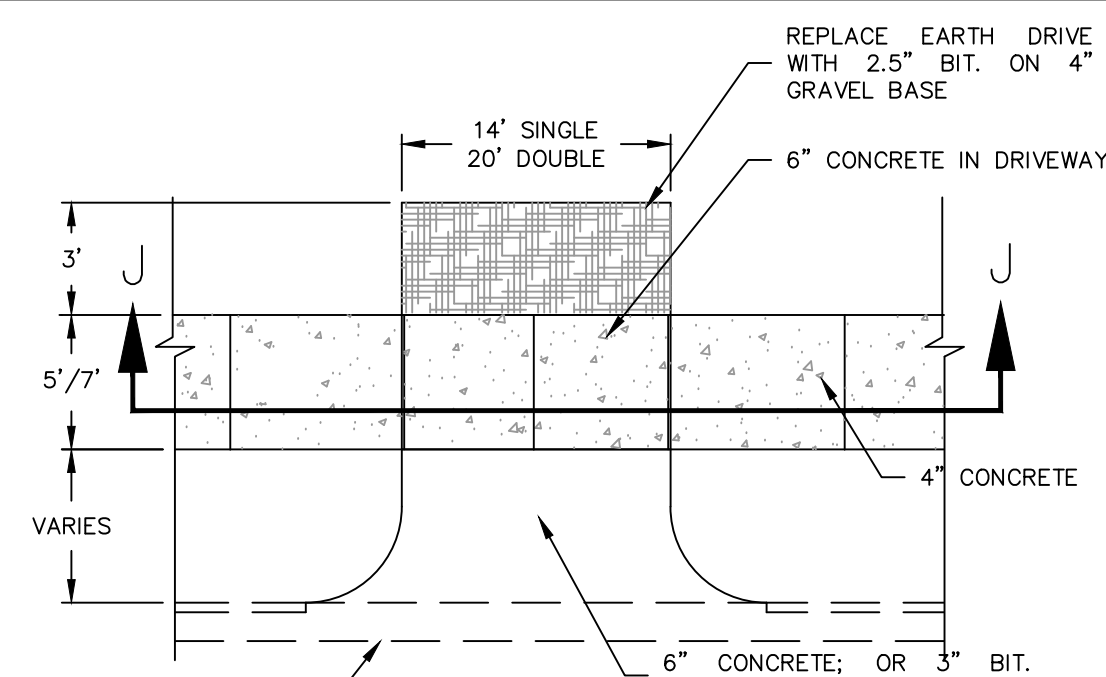
EMBANKMENT & BERM CROSS SECTION



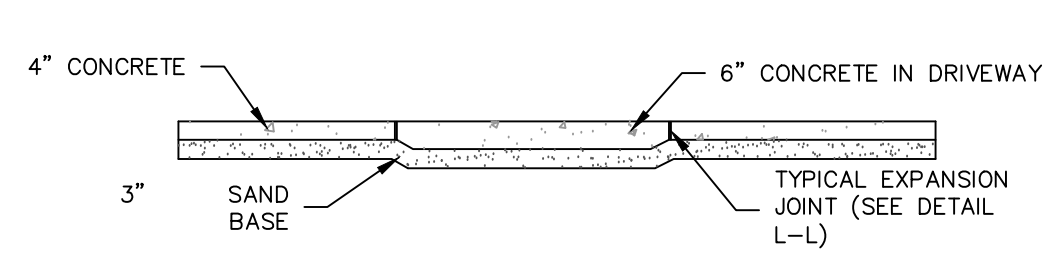
SWALE CROSS SECTION



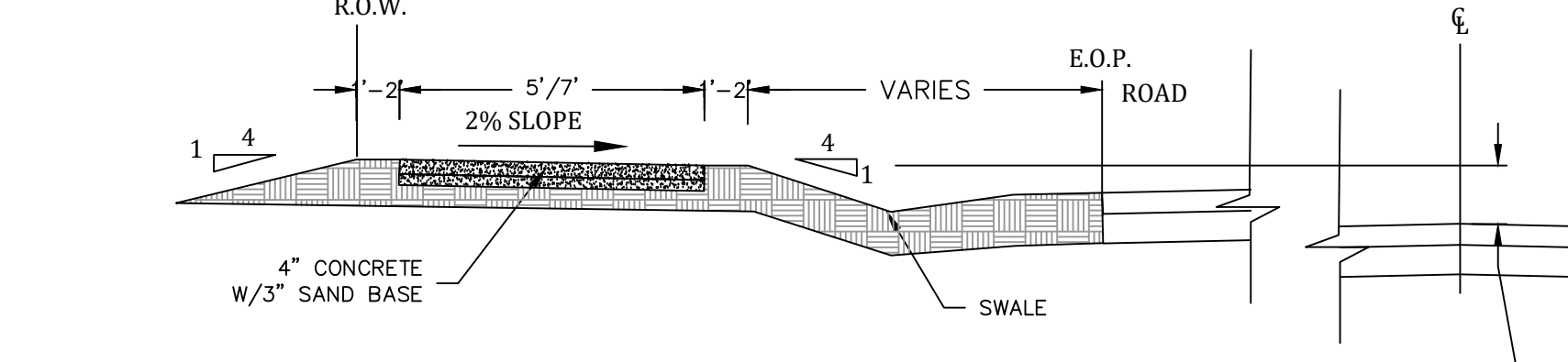
TYPICAL CROSS SECTION



TYP. RESIDENTIAL DRIVEWAY PLAN

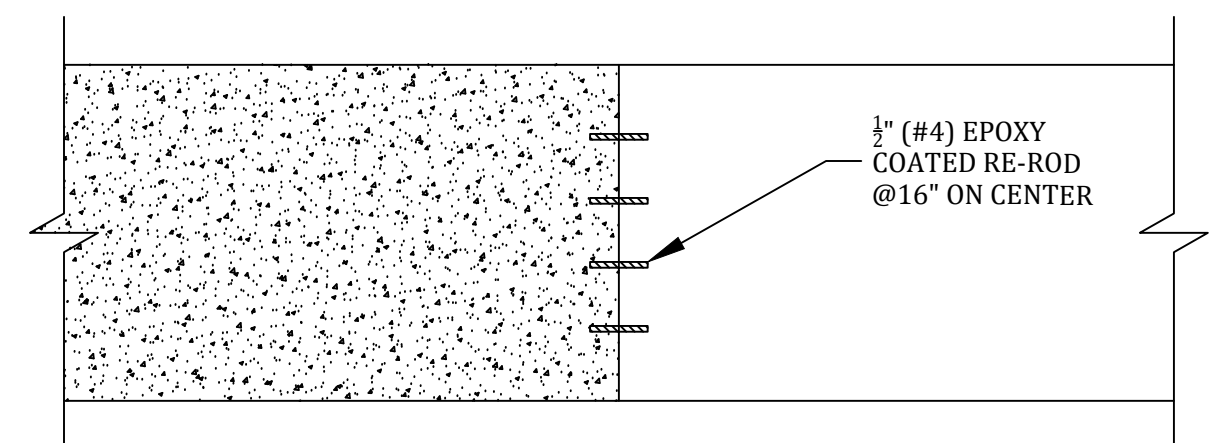


CROSS SECTIONS J-J



TYPICAL SECTION W/O CURB

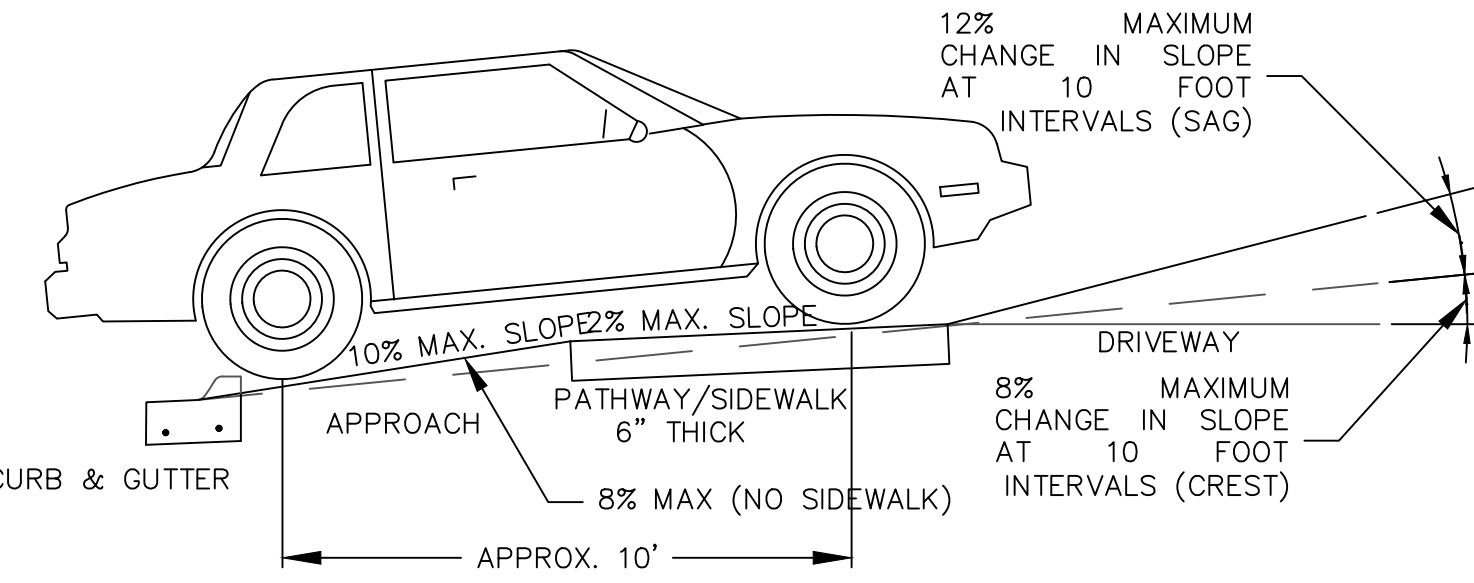
KEEP PATHWAY 1' HIGHER THAN ROAD CENTERLINE



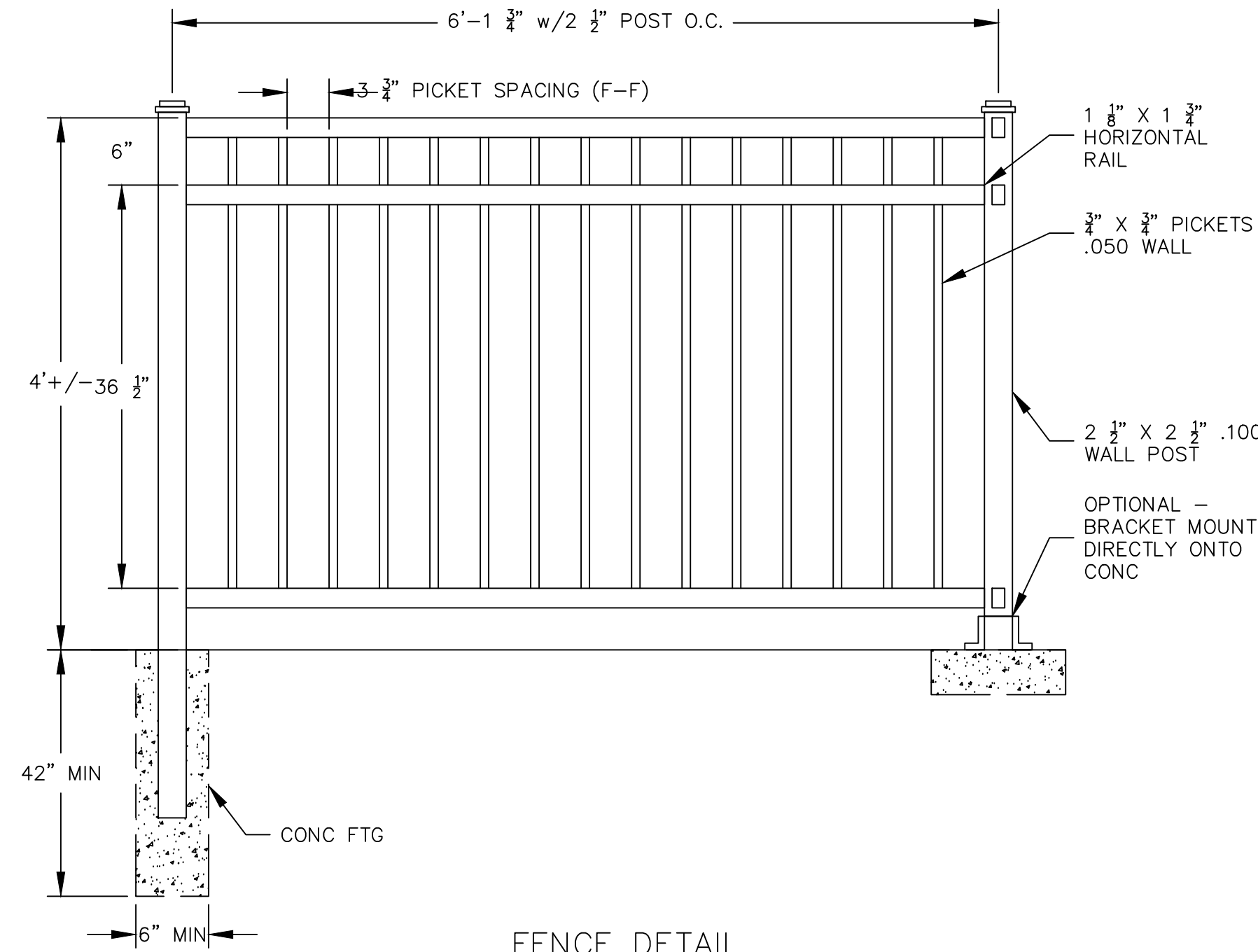
CONCRETE PINNING DETAIL

CROSS SECTION - (NO SCALE)

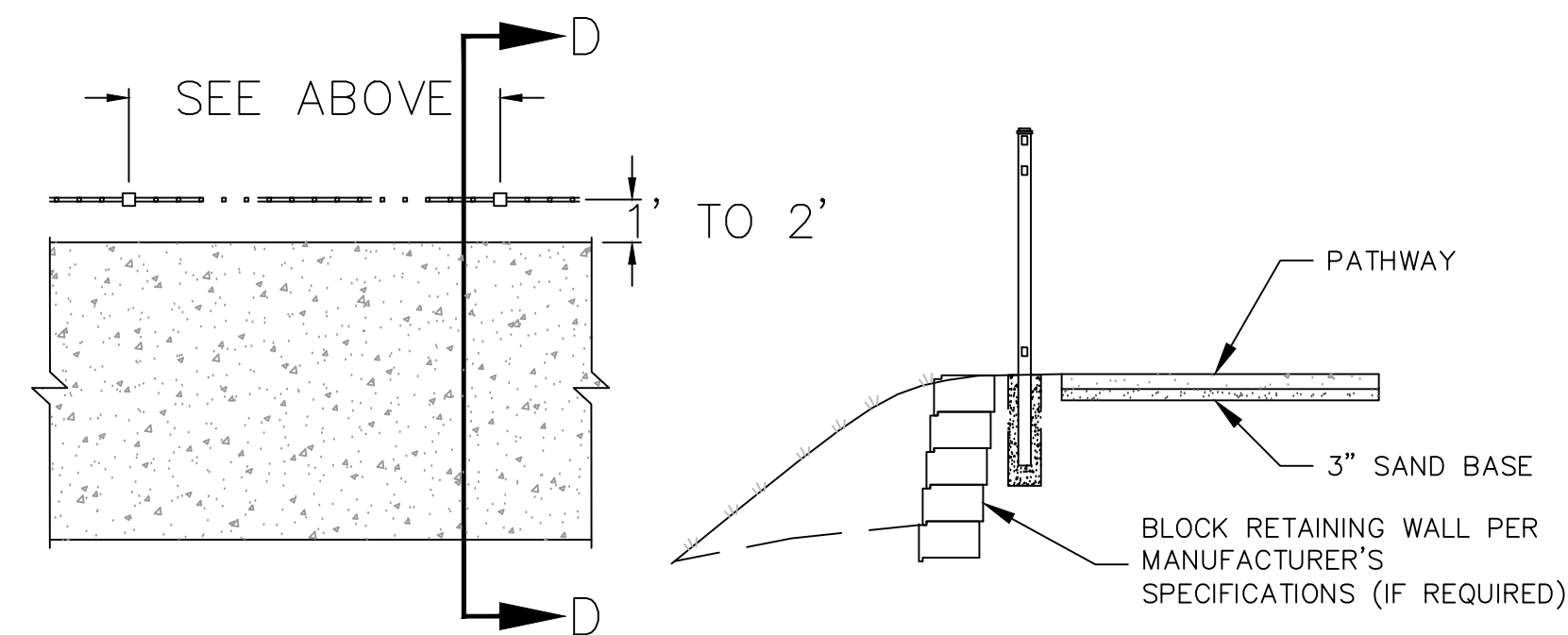
- GENERAL NOTES
1. SIDEWALKS/PATHWAYS SHALL BE 4" THICK CONCRETE EXCEPT AT DRIVEWAYS.
 2. SIDEWALKS/PATHWAYS THRU DRIVES SHALL BE: 6" (RESIDENTIAL); 7" (MULTI-RESIDENTIAL & COMMERCIAL)
 3. 3" OF COMPACTED SAND BASE SHALL BE PLACED UNDER ALL SIDEWALKS/PATHWAYS.
 4. ALL BITUMINOUS APRONS SHALL BE 2 1/2" 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



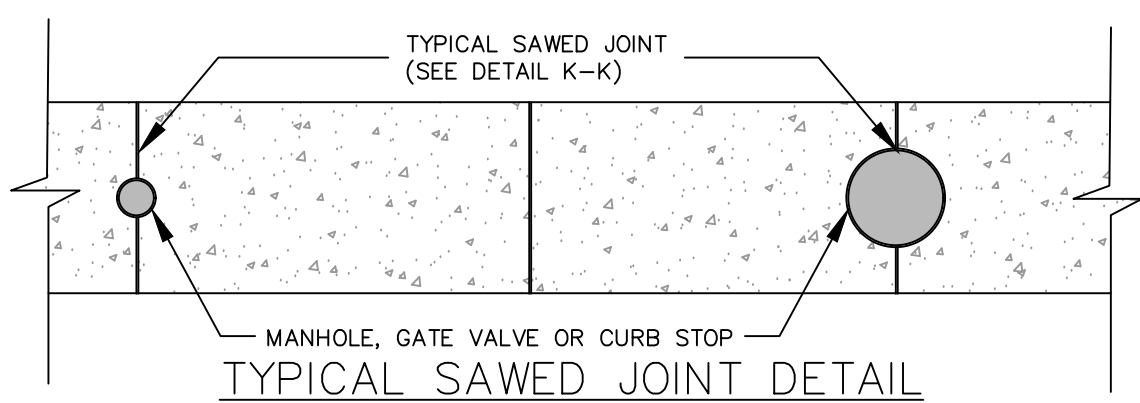
FENCE DETAIL



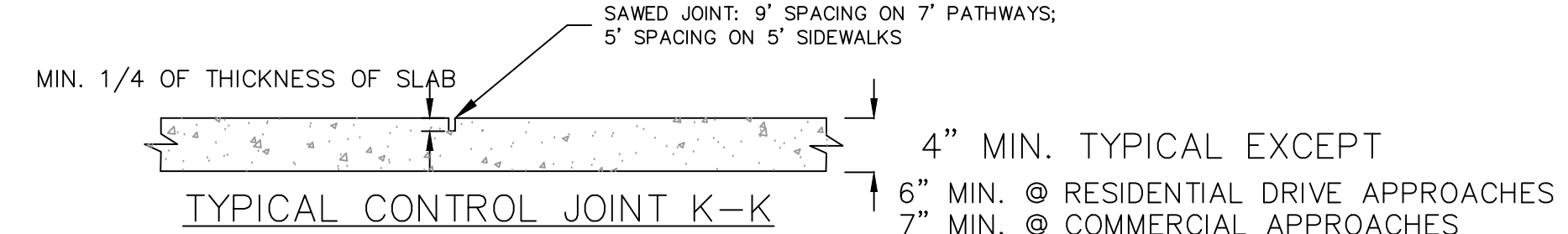
FENCE PLAN

FENCE CROSS SECTION D-D

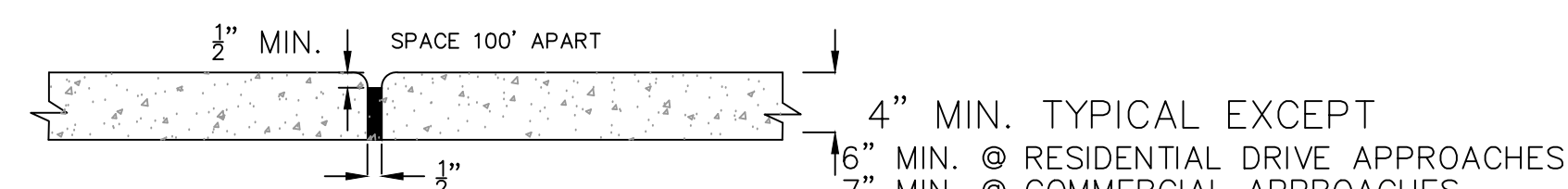
NOTE: FENCE POSTS CAN BE ANCHORED TO THE PATHWAY; THEN PATHWAY MUST BE WIDENED TO EIGHT FEET



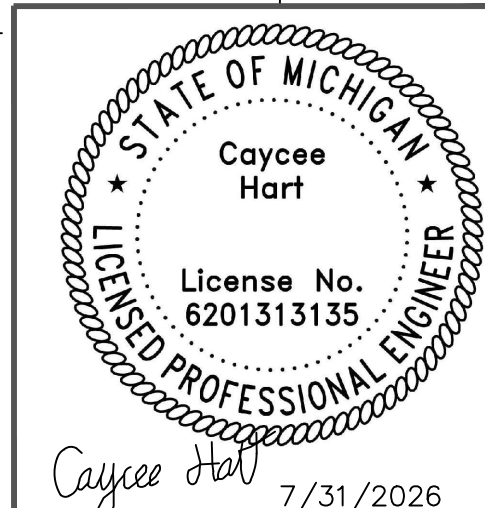
TYPICAL SAWED JOINT DETAIL



TYPICAL CONTROL JOINT K-K



TYPICAL EXPANSION JOINT L-L



Meridian Charter Township
Ingham County, Michigan
PATHWAY

ELPS ADMINISTRATION BUILDING PATHWAY
6157 TOWAR ROAD

SW 1/4 SECTION 6, T4N, R1W, MERIDIAN TOWNSHIP,
INGHAM COUNTY, MICHIGAN

DRAWN BY: CH

CHECKED BY: YI

REVISIONS:		
DATE	BY:	COMMENTS:
7.31.26	CH	BID PLANS

SHEET: