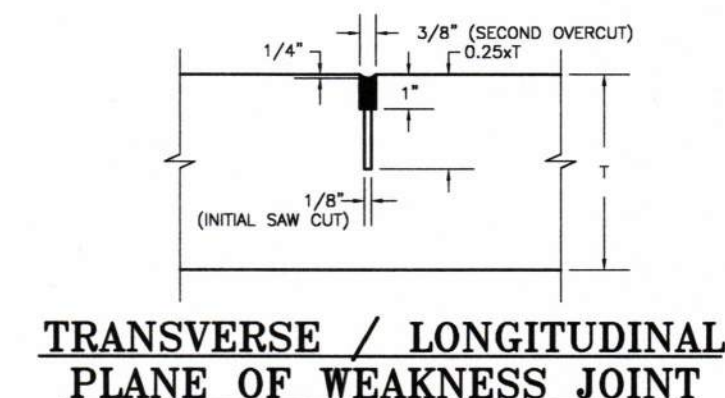
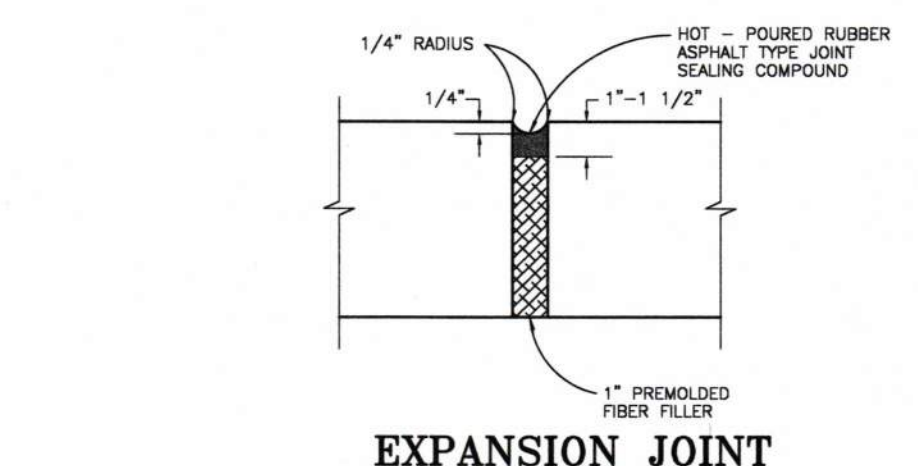
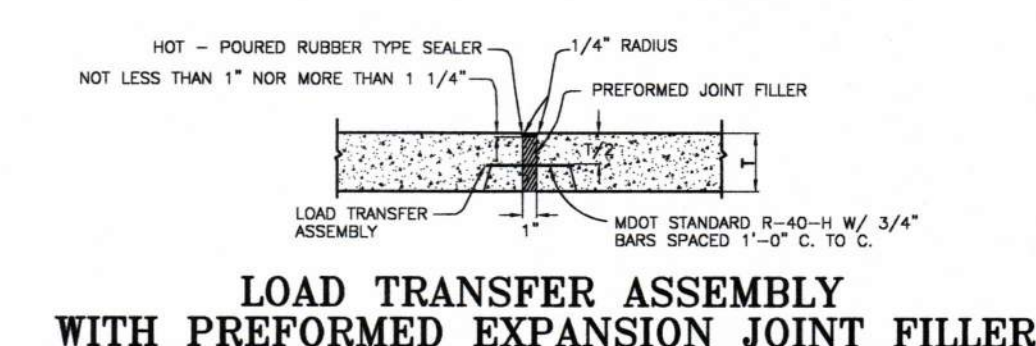
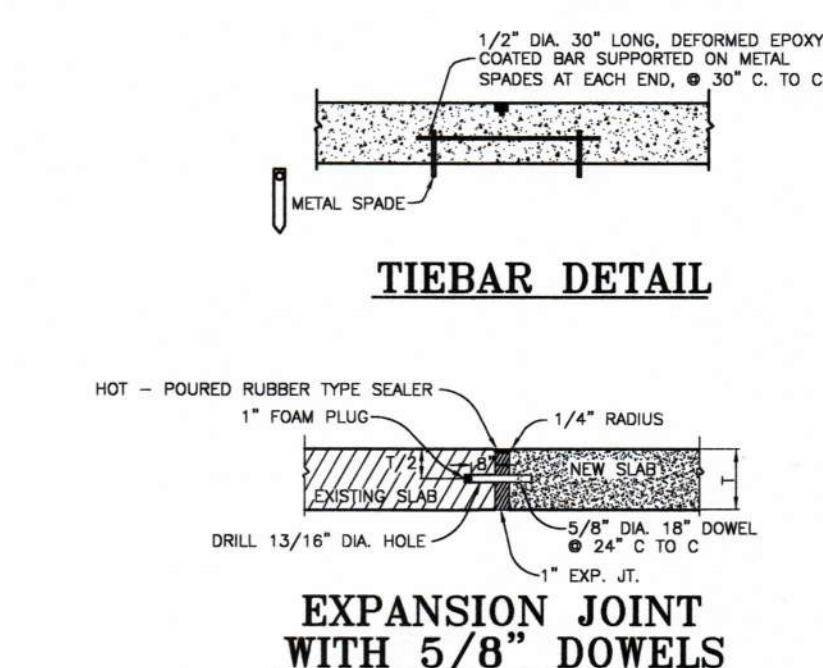
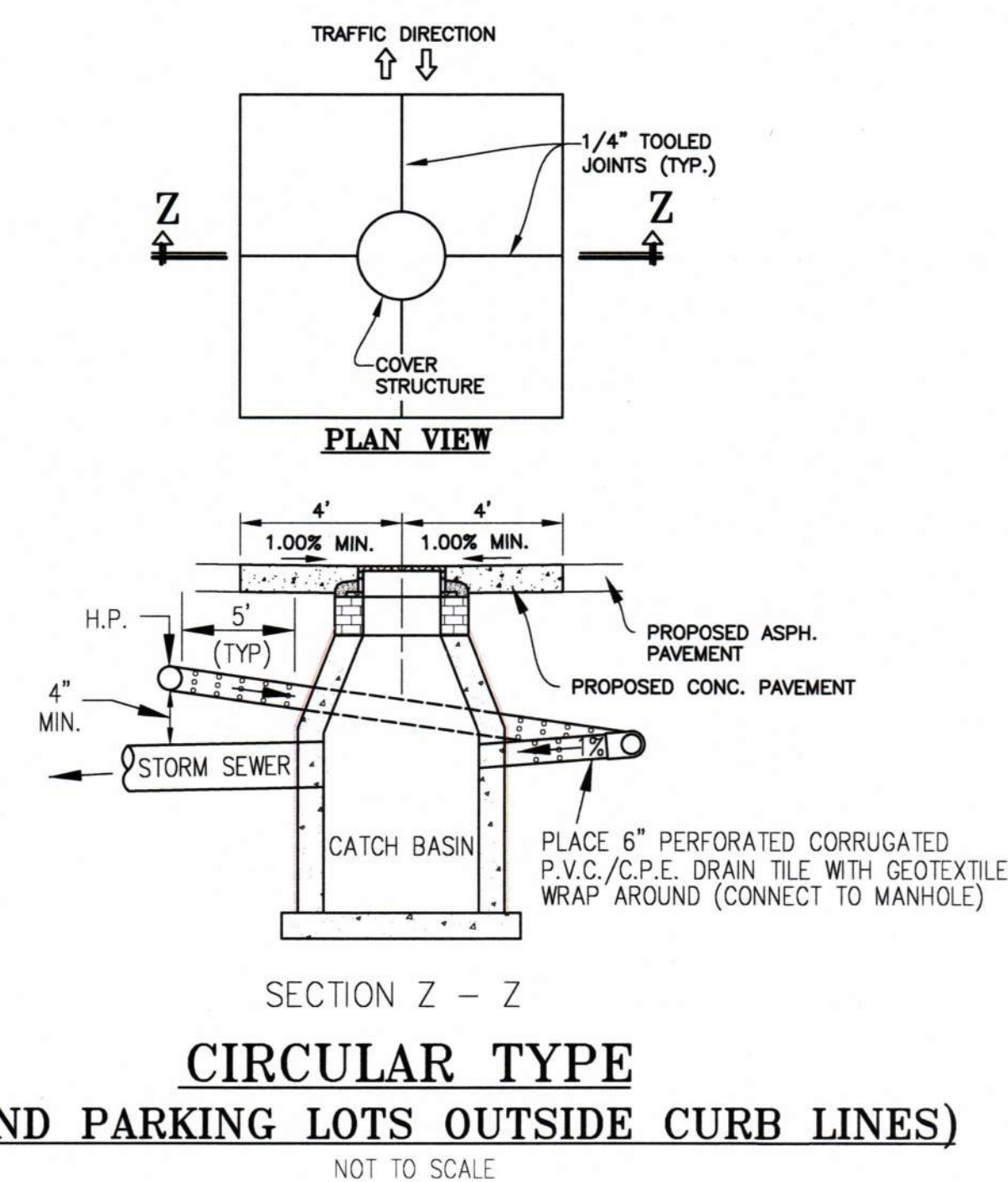
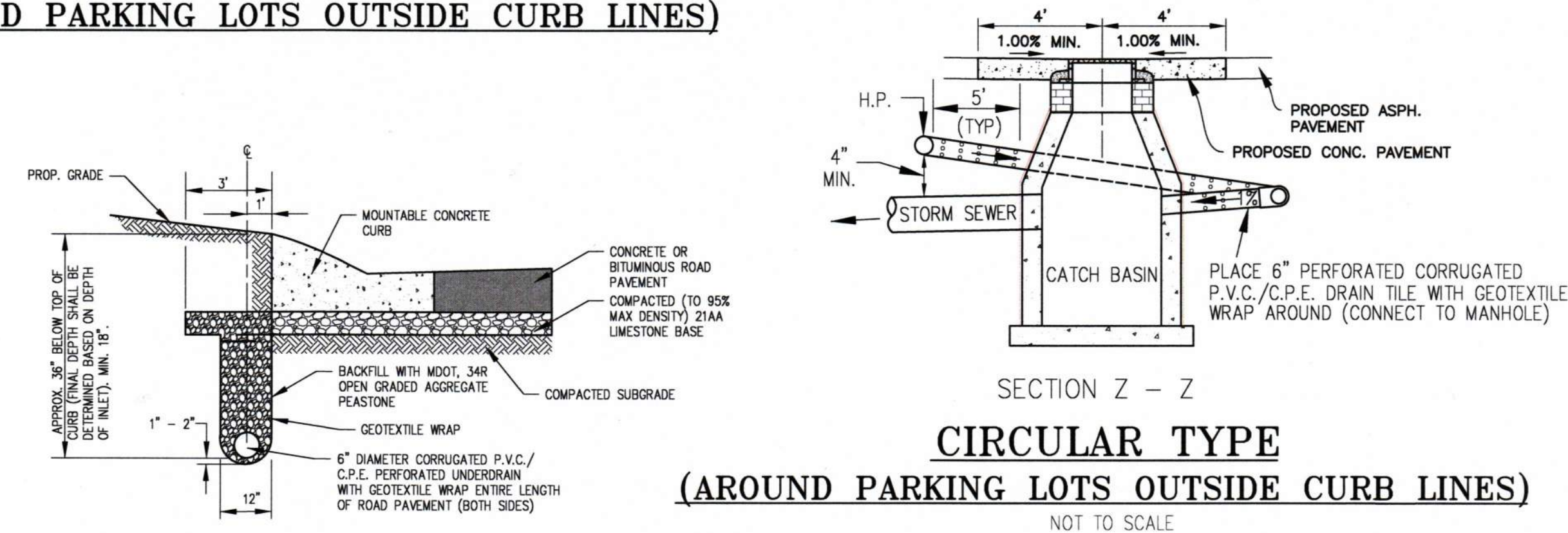
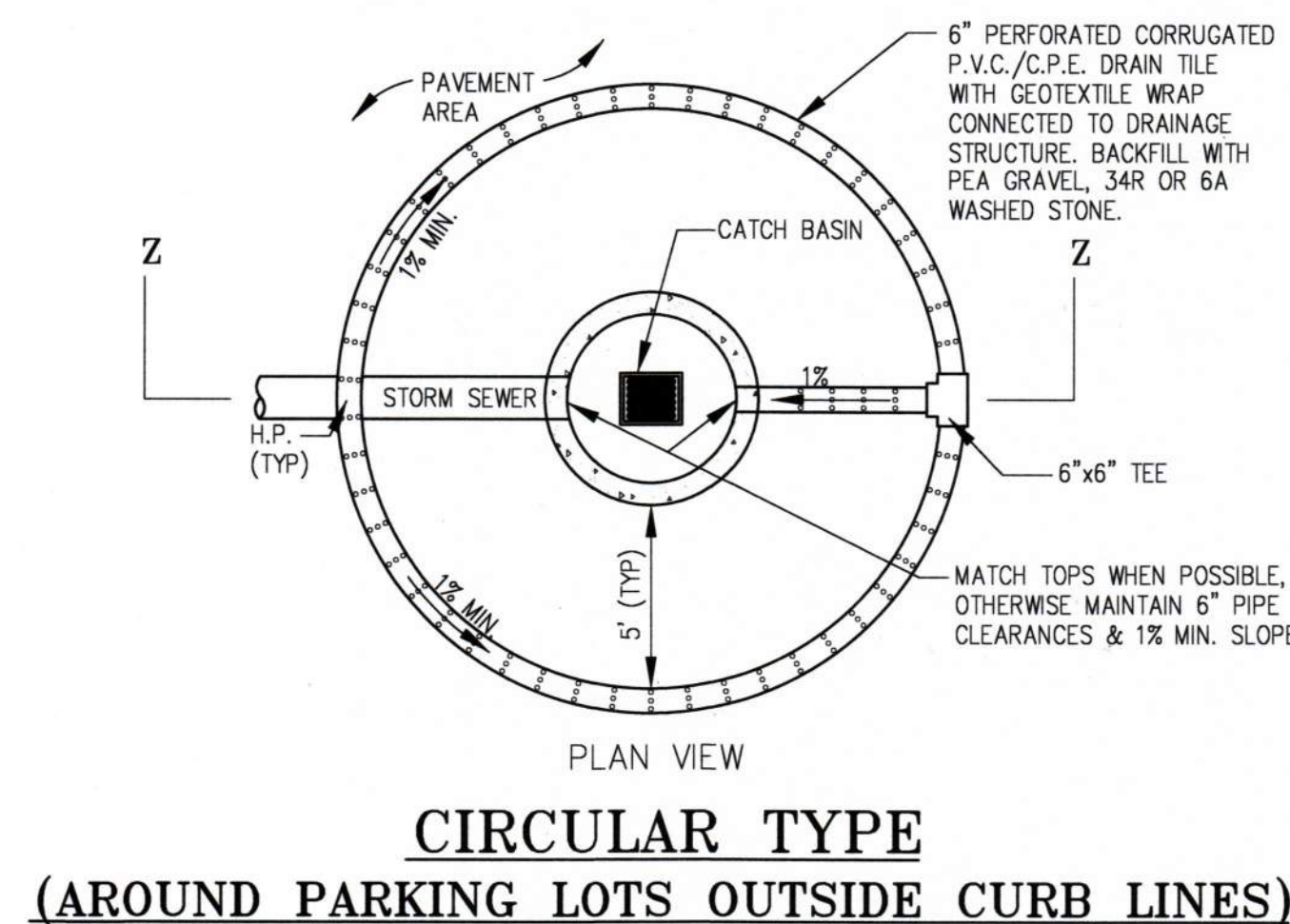
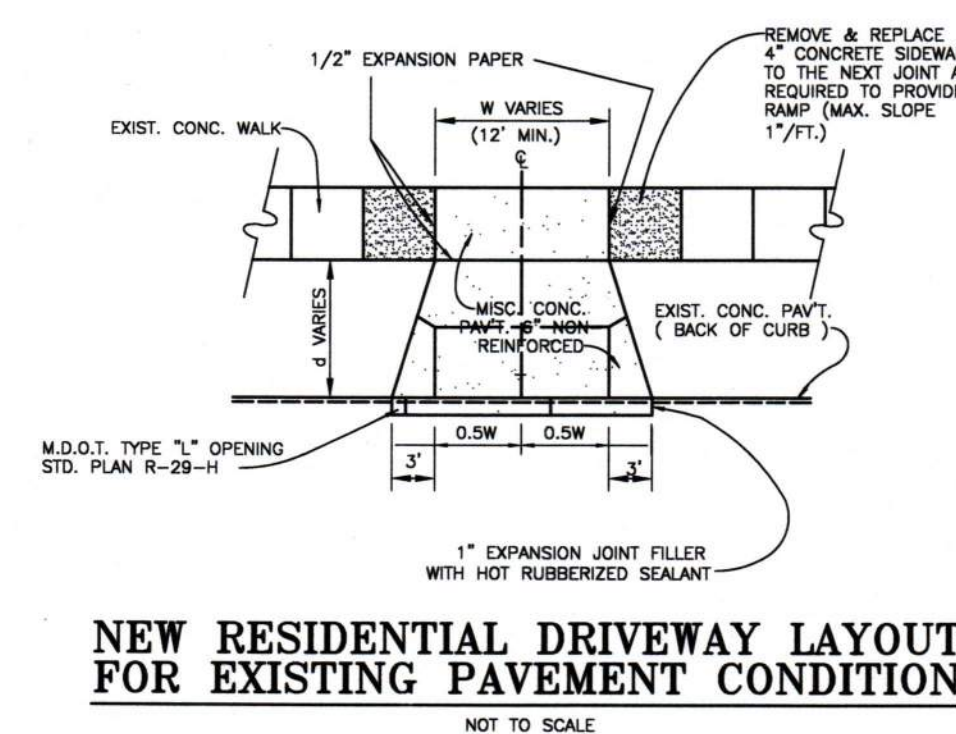
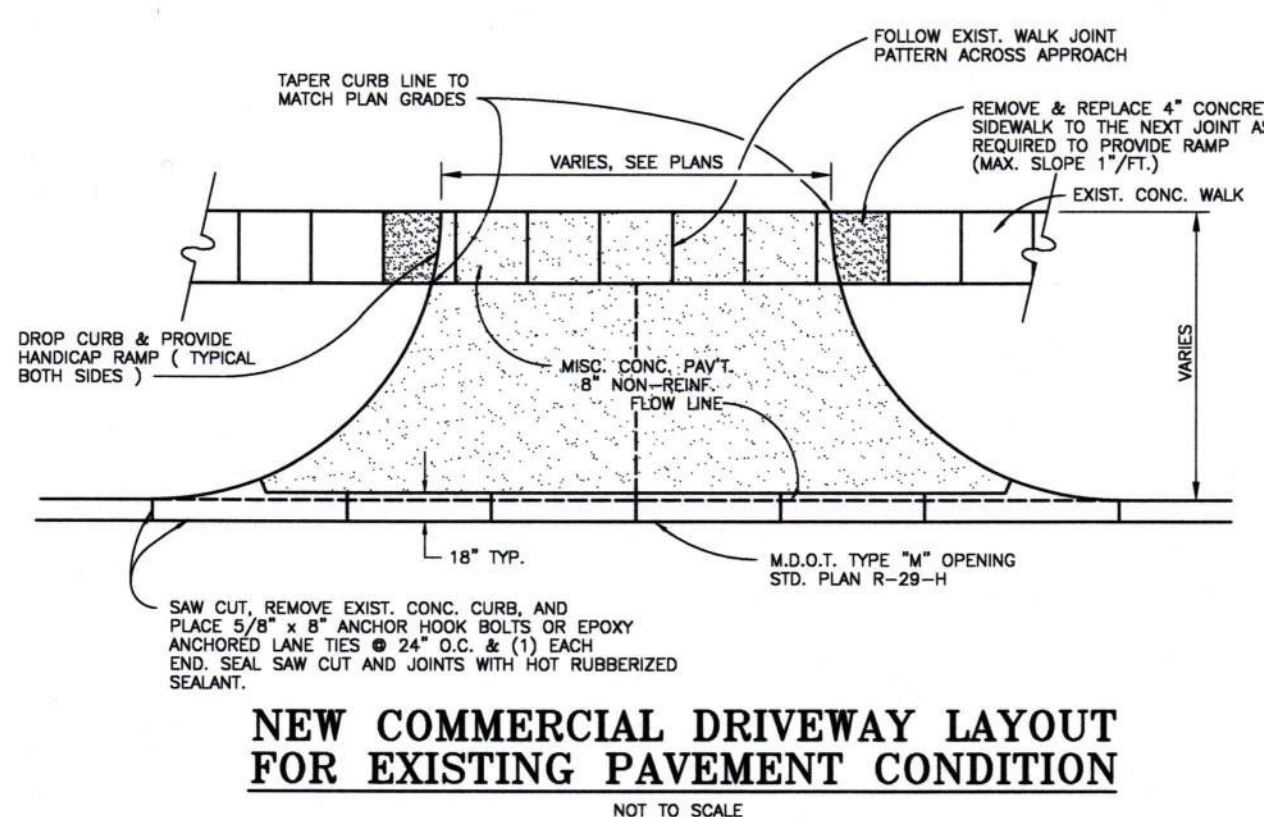
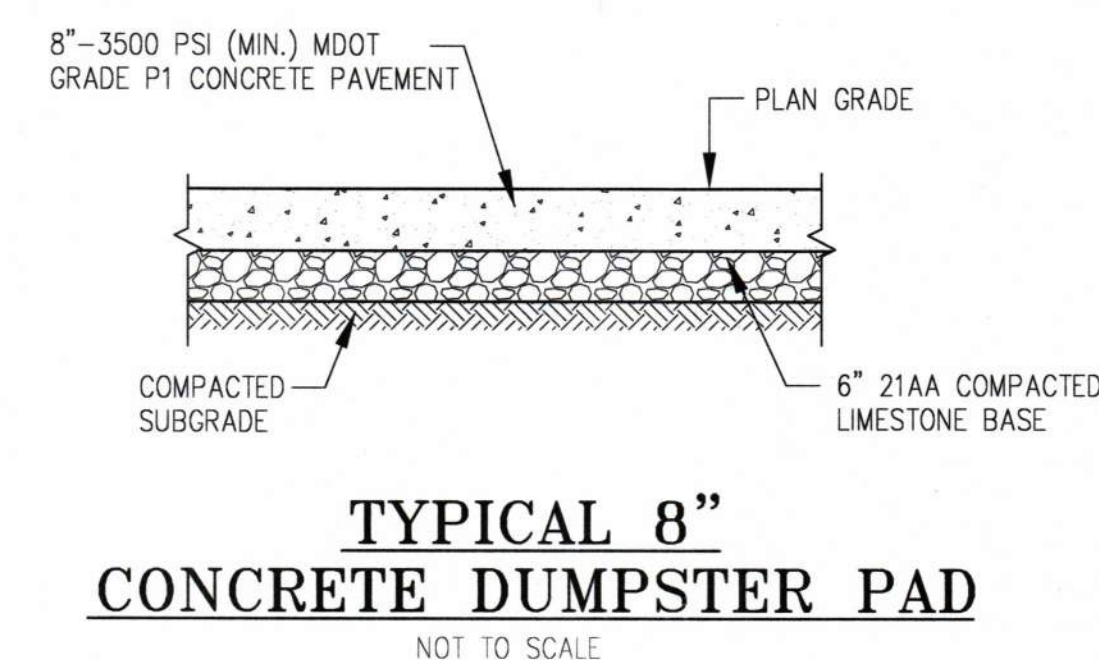
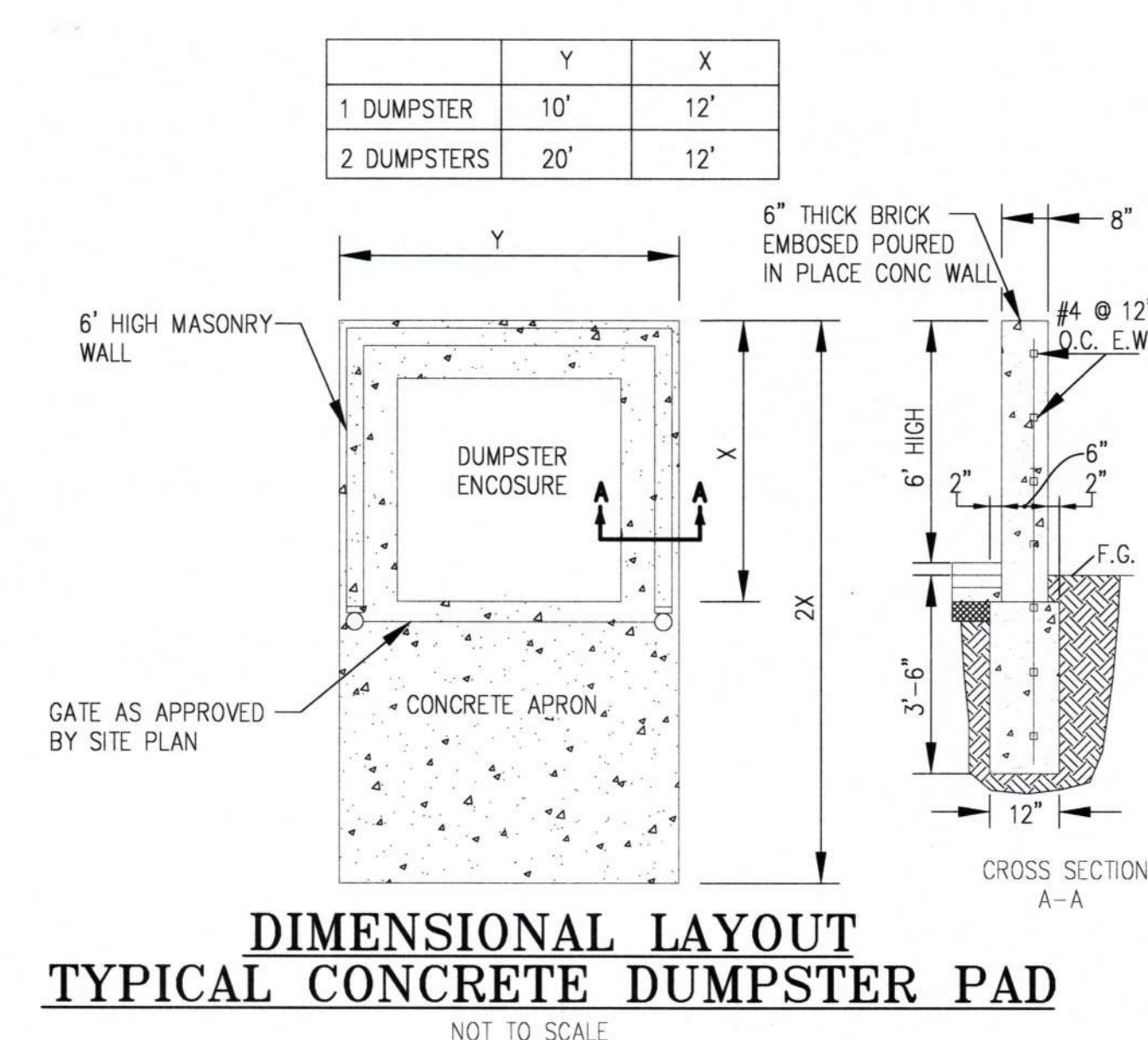
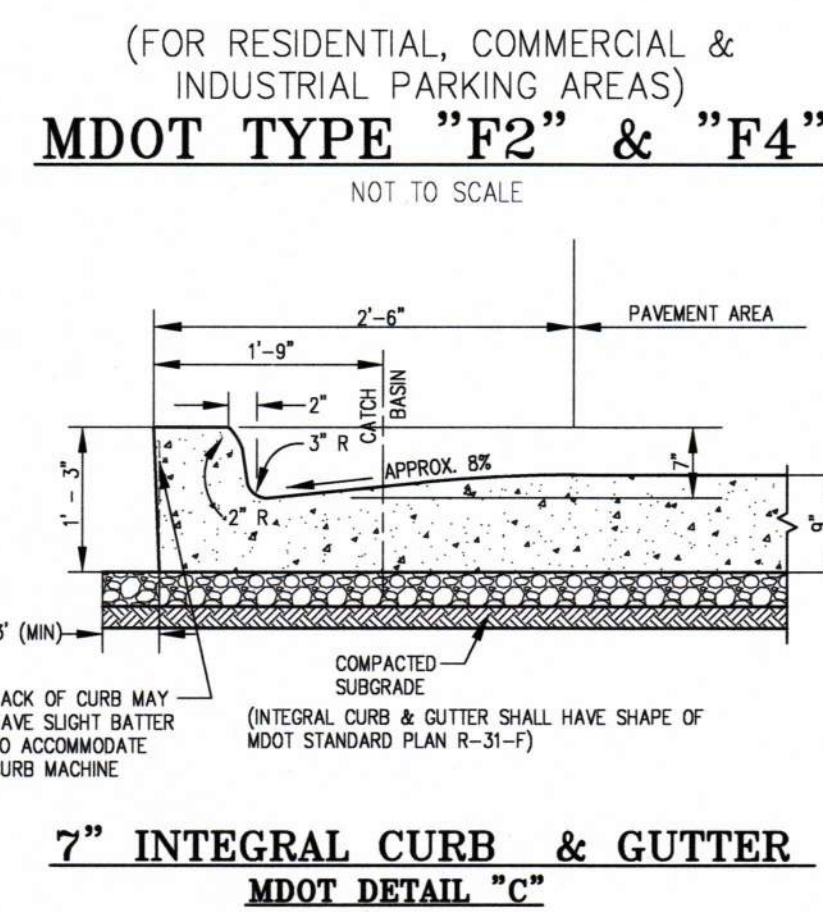
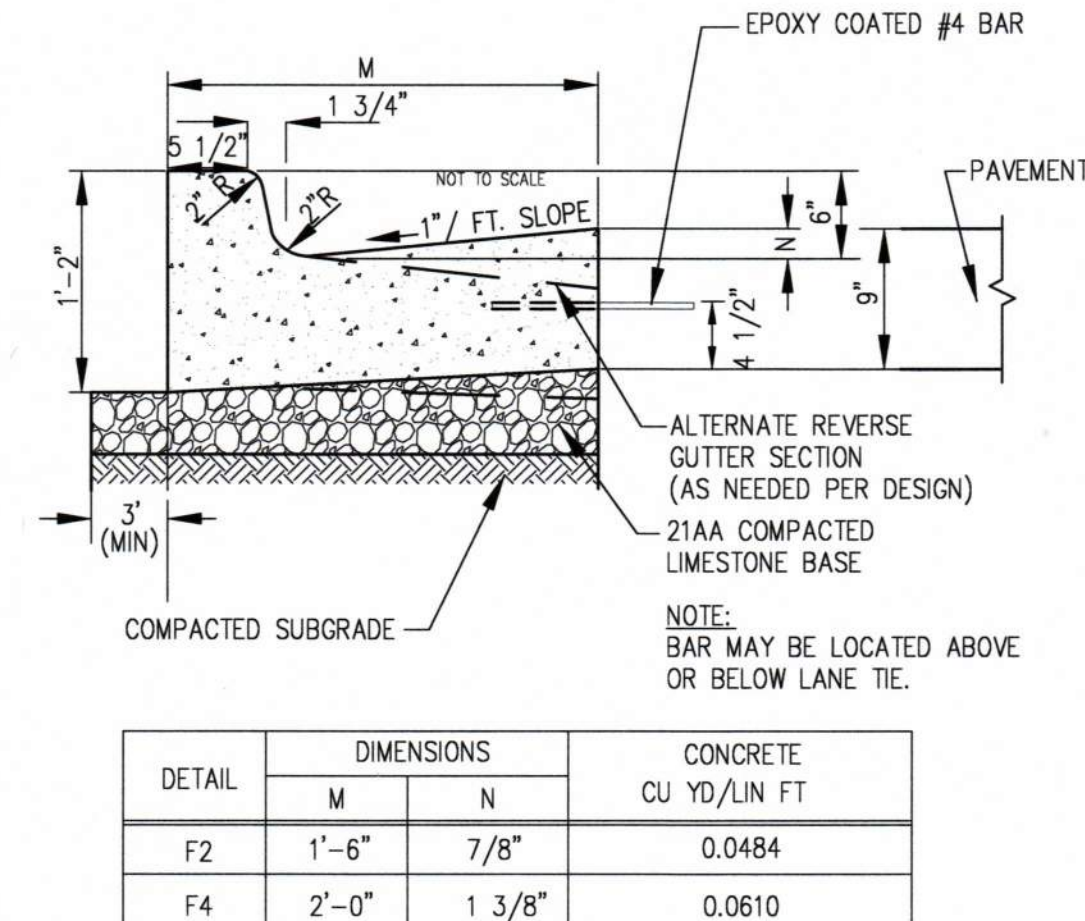
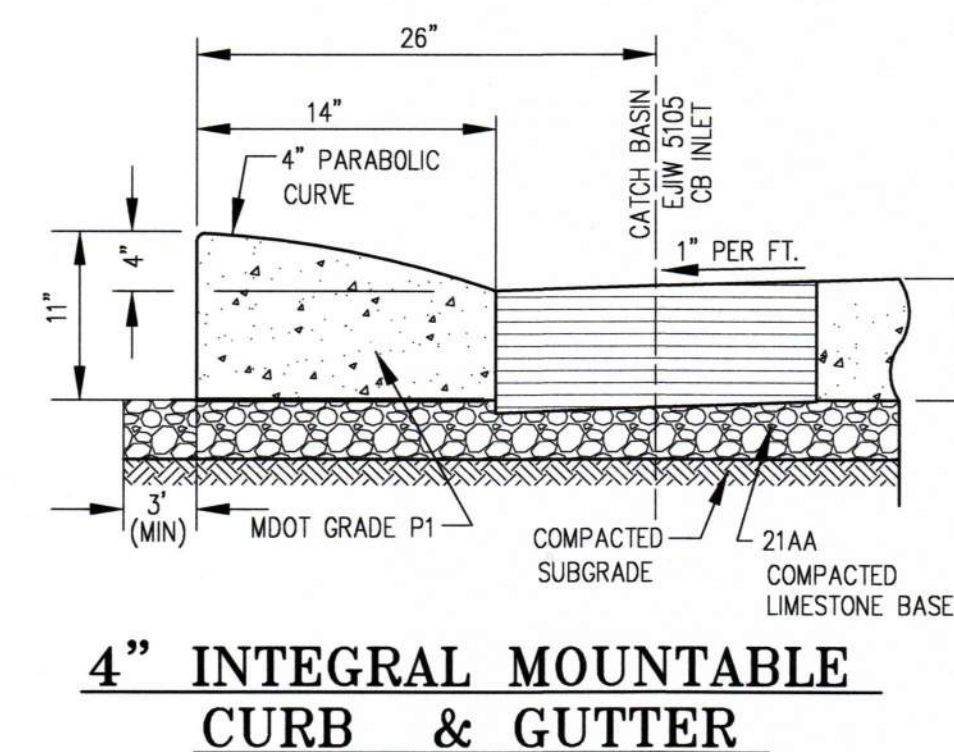
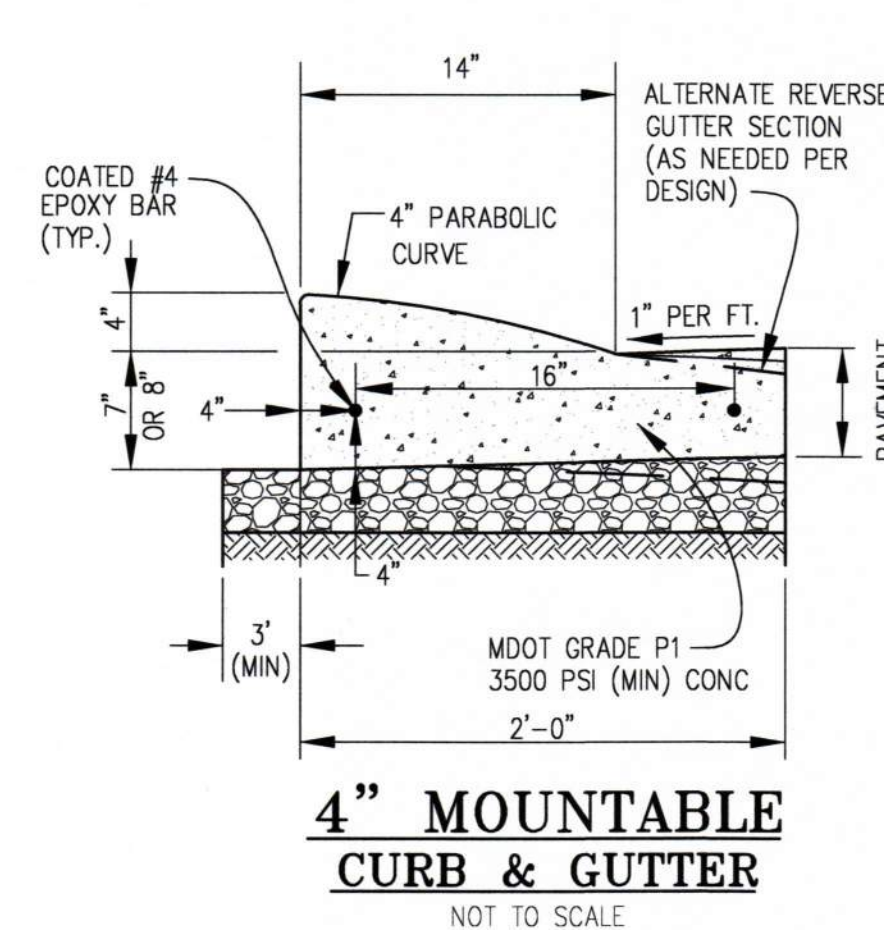
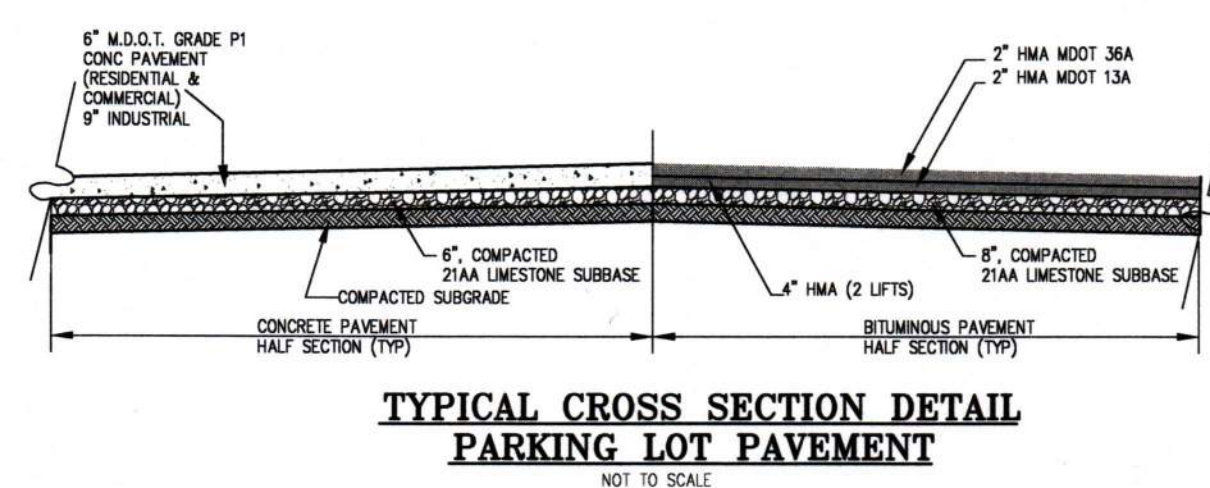
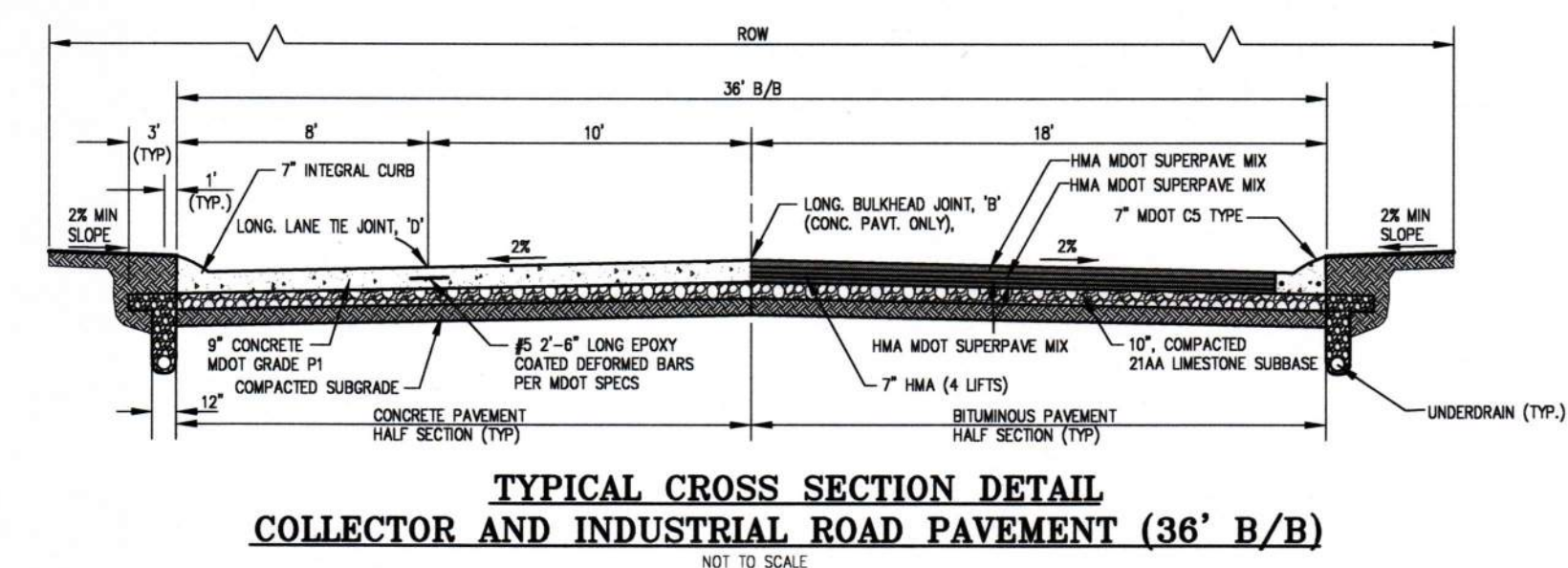
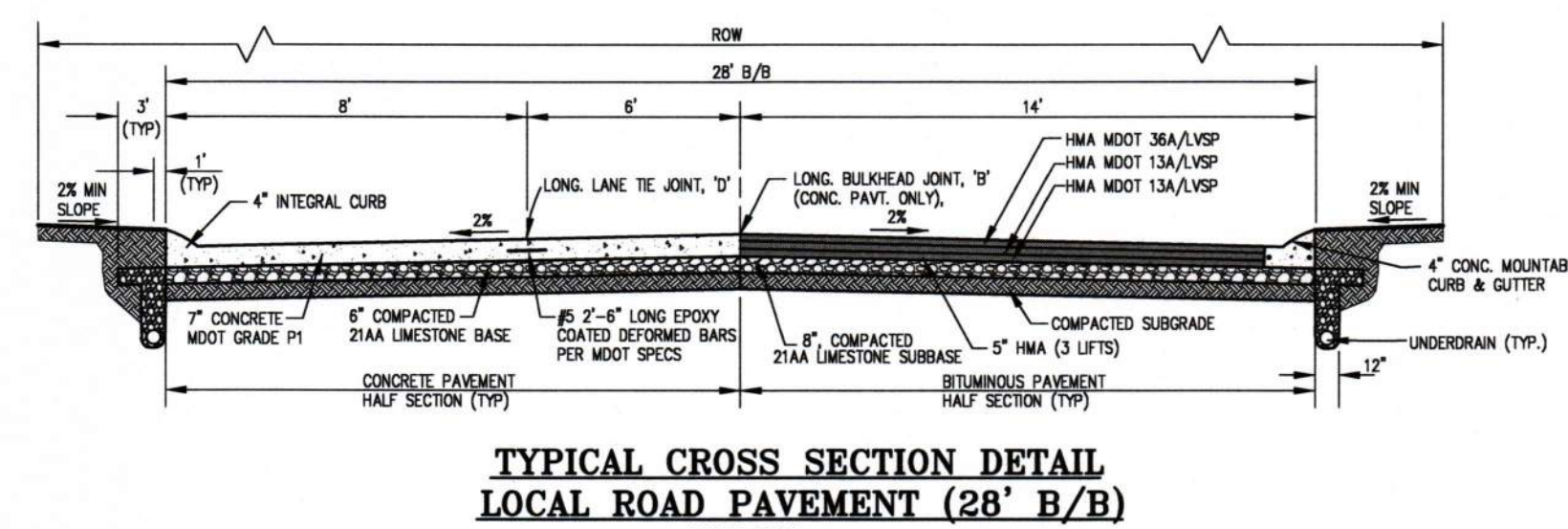




ANDERSON, ECKSTEIN AND
WESTRICK, INC.

CIVIL ENGINEERS SURVEYORS ARCHITECTS

51301 Schoenherr Road Phone 586 726 1234
Shelby Township Fax 586 726 8780
Michigan 48315

www.aewinc.com

ENGINEERING STRONG COMMUNITIES



DATE		SUBMITTALS/REVISIONS	
DRAWN BY:	CHECKED BY:	DATE:	
KJP	KMS	AUGUST 2017	



Know what's below.
Call before you dig.



Kyle M. Seidel
KYLE M. SEIDEL P.E. NO. 6201048152

Department of
Public Services

APPROVED BY: Jeffrey Wood
JEFFREY WOOD, DIRECTOR

DATE: March 1, 2027

mount
clemens

STANDARD PAVING DETAILS

SHEET NO.

P1

COPYRIGHT, 2022, ANDERSON, ECKSTEIN AND WESTRICK, INC.

PAVING NOTES

1. STANDARDS AND SPECIFICATIONS

- A. ALL PAVING CONSTRUCTION SHALL CONFORM TO THE CURRENT STANDARDS AND SPECIFICATIONS OF THE CITY OF MOUNT CLEMENS AND THE MICHIGAN DEPARTMENT OF TRANSPORTATION. DETAILED WRITTEN SPECIFICATIONS ARE AVAILABLE UPON REQUEST.
- B. ANY MATERIALS OTHER THAN THOSE LISTED ON THE STANDARD DETAIL SHEETS MUST BE APPROVED IN WRITING BY THE CITY OF MOUNT CLEMENS. CONTRACTOR MUST SUBMIT THREE (3) COPIES OF SHOP DRAWINGS AND SPECIFICATIONS FOR PROPOSED ALTERNATE MATERIAL TO THE CITY OF MOUNT CLEMENS DEPARTMENT OF PUBLIC SERVICES FOR REVIEW AS AN APPROVED EQUAL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH REVIEW OF THE PROPOSED ALTERNATE MATERIAL AS AN APPROVED EQUAL.

2. PRECONSTRUCTION REQUIREMENTS

- A. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL ATTEND A PRECONSTRUCTION MEETING AT A TIME AND PLACE AS ARRANGED BY CITY OF MOUNT CLEMENS. THE CONTRACTOR SHALL NOTIFY AFFECTED UTILITY COMPANIES AND GOVERNMENTAL AGENCIES A MINIMUM OF THREE (3) WORKING DAYS PRIOR TO THE PRECONSTRUCTION MEETING. THE OWNER'S ENGINEER SHALL SUBMIT APPROVED PLANS TO ALL APPLICABLE UTILITY COMPANIES AND GOVERNMENTAL AGENCIES A MINIMUM OF TEN (10) DAYS PRIOR TO PRECONSTRUCTION MEETING.

3. GENERAL NOTES

- A. PRIOR TO PLACEMENT OF BASE MATERIAL OR PAVEMENTS THE CONTRACTOR SHALL PROOFROLL THE SUBGRADE AND REMOVE ANY UNSUITABLE MATERIAL OBSERVED.
- B. ALL BASE MATERIAL SHALL BE COMPACTED TO 95% OF ITS MAXIMUM UNIT WEIGHT, AS DETERMINED BY THE MODIFIED PROCTOR TEST.
- C. THE DEVELOPER SHALL RETAIN THE SERVICES OF A GEOTECHNICAL CONSULTING/TESTING FIRM. ALL FILL MATERIAL AND BASE MATERIAL SHALL BE TESTED AND ITS COMPACTION AND SUITABILITY FOR ACCEPTANCE OF THE BASE MATERIAL AND PAVEMENT SHALL BE CERTIFIED BY SAID TESTING FIRM. THE OWNER SHALL SUPPLY THREE COPIES OF THE GEOTECHNICAL REPORT AND CERTIFICATION TO THE CITY DEPARTMENT OF PUBLIC SERVICES.

IF IN THE OPINION OF THE INSPECTOR/ENGINEER, FIELD CONDITIONS WARRANT ADDITIONAL TESTING, THE DEVELOPER SHALL ARRANGE FOR AND PAY FOR ALL REQUIRED TESTING.

4. RESIDENTIAL EXPANSION JOINTS

- A. PLACE $\frac{1}{2}$ " FIBER EXP. JOINT FILLERS AT LOT LINES WHEN LOTS ARE 50' OR LESS.
- B. ADDITIONAL $\frac{1}{2}$ " FIBER EXP. JOINT FILLERS FOR LOTS GREATER THAN 50', NOT TO EXCEED 50' INTERVALS.
- C. PLACE $\frac{1}{2}$ " FIBER EXP. JOINT FILLERS ON EACH SIDE OF SIDEWALK, IF EDGE OF DRIVE IS WITHIN 2' OF LOT LINES PLACE EXPANSION PAPER AT PROPERTY LINE.
- D. PLACE 1" FIBER EXP. JOINT FILLERS AT CURB AND BUILDING OR R.O.W. LINE.
- E. AT CURB LINE, EXPANSION JOINTS SHALL BE SEALED WITH HOT-POURED RUBBER-ASPHALT SEALANT.
- F. PLACE $\frac{1}{2}$ " FIBER EXP. JOINT FILLERS SURROUNDING THE KEY FLAG OF CROSS-WALKS.
- G. PLACE 1" FIBER EXP. JOINT FILLERS AT INTERSECTIONS OF CURB RADIUS AND IN LINE WITH EXISTING JOINTS.
- H. PLACE $\frac{1}{2}$ " FIBER EXP. JOINT FILLER AT INTERSECTION OF SERVICE WALK & CURB ALSO AT SERVICE WALK & WALK.
- I. PLACE $\frac{1}{2}$ " FIBER EXP. JOINT FILLERS AT EITHER SIDE OF SIDEWALK ABUTTING TREE AND AT CENTERLINE JOINT. ROOT BARRIERS MAY BE REQUIRED.
- J. FIBER EXPANSION JOINT FILLERS SHALL BE FULL DEPTH OF PAVEMENT.

5. RESIDENTIAL CONTRACTION JOINTS

- A. PLACE CONTRACTION JOINTS AT INTERVALS NOT LESS THAN 5' NOR GREATER THAN 7', FULL WIDTH OF WALK. JOINT DEPTH SHALL BE $\frac{1}{4}$ " THICKNESS OF CONCRETE.
- B. PLACE CONTRACTION JOINTS AT WALK LINES FOR FULL WIDTH SIDEWALK.

6. RESIDENTIAL DRIVEWAYS

- A. PLACE CONTRACTION JOINTS SO THAT NO SECTION OF THE CONCRETE DRIVEWAY EXCEEDS A DIMENSION OF 10'x10'.
- B. PLACE 1" FIBER EXPANSION FILLER AT ALL SIDES OF A COMMERCIAL DRIVE.
- C. WIDTH OF APPROACH AT STREET SHOULD BE MIN. 3' WIDER THAN WIDTH AT SIDEWALK, EACH SIDE.

7. CONCRETE PAVEMENT

- A. NO CONCRETE PAVING SHALL BE ALLOWED PRIOR TO APRIL FIFTEEN OR AFTER NOVEMBER FIRST. (UNLESS APPROVED BY THE DPS DIRECTOR)
- B. AMBIENT AIR TEMPERATURE AT THE POINT OF PLACEMENT, AWAY FROM ARTIFICIAL HEAT, SHALL BE AT LEAST 30° F AND RISING.
- C. MAXIMUM TIME INTERVAL BETWEEN BATCHING AND PLACING OF CONCRETE IS 60 MINUTES.
- D. NO CONCRETE SHALL BE PLACED UNTIL A PRE-CHECK HAS BEEN REQUESTED BY THE CONTRACTOR OR HOME OWNER AND APPROVED BY THE CITY OF MOUNT CLEMENS D.P.S.

8. SIDEWALKS

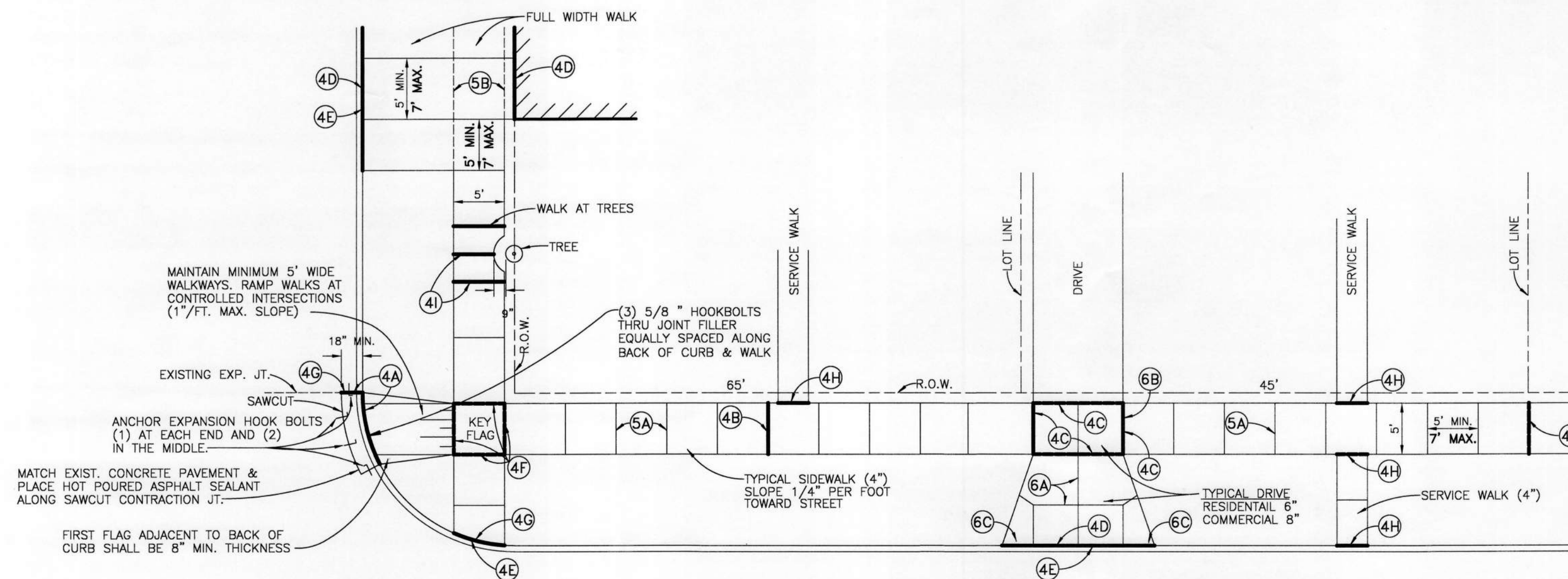
- A. HANDICAP RAMPS SHALL MEET A.D.A. REQUIREMENTS.
- B. DETECTABLE WARNING PLATES SHALL BE PLASTIC - BRICK RED IN COLOR.
- C. SURFACING TEXTURE OF THE RAMP SHALL BE THAT OBTAINED BY A COARSE BROOMING, TRANSVERSE TO THE WALKWAY.
- D. IF POSSIBLE, DRAINAGE STRUCTURES SHOULD NOT BE PLACED IN LINE WITH RAMPS, EXCEPT WHERE EXISTING DRAINAGE STRUCTURES ARE BEING UTILIZED. NEW CONSTRUCTION LOCATION OF THE RAMP SHOULD TAKE PRECEDENCE OVER LOCATION OF DRAINAGE STRUCTURE.

9. BITUMINOUS PAVEMENT

- A. ALL BITUMINOUS MATERIAL SHALL BE COMPACTED TO A DENSITY OF 92%-96% OF THE MAXIMUM UNIT WEIGHT AS DETERMINED BY THE THEORETICAL MAXIMUM DENSITY (TMD).
- B. BITUMINOUS MIXTURE SHALL CONSIST OF:
BASE & LEVELING COURSE - MDOT BITUMINOUS MIXTURE 13A OR APPLICABLE SUPERPAVE MIXTURE.
WEARING COURSE - MDOT BITUMINOUS MIXTURE 36A OR APPLICABLE SUPERPAVE MIXTURE.
- C. THE FOLLOWING APPLICATION RATES SHALL NOT BE EXCEEDED PER LIFT OF EACH BITUMINOUS MIXTURE:
36A - 165 LBS/SYD
13A - 275 LBS/SYD
LVSP WEARING COURSE - 220 LBS/SYD
LVSP LEVELING COURSE - 250 LBS/SYD
3E - 410 LBS/SYD
4E - 275 LBS/SYD
5E - 220 LBS/SYD

NOTE: APPLICATION RATE OF APPROXIMATELY 110 LBS/SYD PER INCH OF HMA THICKNESS.

- D. A BOND COAT IS REQUIRED BETWEEN THE BASE COURSE AND LEVELING COURSE AND BETWEEN THE LEVELING COURSE AND WEARING COURSE WHEN EITHER 48 HOURS HAVE ELAPSED BETWEEN PLACEMENTS OF THE BITUMINOUS COURSES OR THE SURFACE OF THE PAVEMENT HAS BEEN CONTAMINATED WITH DIRT, DUST OR FOREIGN MATERIAL. THE BOND COAT SHALL BE APPLIED IN A UNIFORM MANNER AND FOLLOW THE CONSTRUCTION SPECIFICATIONS SET FORTH BY MDOT.
- E. VEHICULAR TRAFFIC SHALL BE LIMITED ON A NEW BITUMINOUS PAVEMENT FOR 12 HOURS AFTER PLACEMENT OF THE PAVEMENT.



TYPICAL SIDEWALK JOINTING STANDARDS

NOT TO SCALE



ANDERSON, ECKSTEIN AND
WESTRICK, INC.

CIVIL ENGINEERS SURVEYORS ARCHITECTS

51301 Schoenherr Road Phone 586 726 1234
Shelby Township Fax 586 726 8780
Michigan 48315

www.aewinc.com

ENGINEERING STRONG COMMUNITIES



DATE		SUBMITTALS/REVISIONS	
DRAWN BY:	CHECKED BY:	DATE:	
KJP	KMS	AUGUST 2017	

W:\COMMUNITIES\MOUNT CLEMENS\STREETWORKS\CURRENT\CAD\MOUNT CLEMENS-PW.DWG
P2--2/28/2022 3:55:07 PM



Kyle M. Seidel
KYLE M. SEIDEL P.E. NO. 6201048152

Department of
Public Services

APPROVED BY: *[Signature]*
JEFFERY WOOD, DIRECTOR

DATE: March 1, 2022

mount
clemens

STANDARD
PAVING
DETAILS

SHEET NO.

P2

COPYRIGHT, 2022, ANDERSON, ECKSTEIN AND WESTRICK, INC.