

OWNER/DEVELOPER:
7-ELEVEN (AKA SPEEDWAY LLC)
3200 HACKBERRY RD
IRVING, TX 75063
CONTACT: JAMES HUGHES

CONSTRUCTION MANAGER:
7-ELEVEN (AKA SPEEDWAY LLC)
3200 HACKBERRY RD
IRVING, TX 75063
CONTACT: KENNETH LETZ
PHONE: (330) 690-2345

Site Plan Review

Revised Plans - Revision #2

Received: 05/29/2026
City of Kalamazoo
E.Szymanski

ENGINEER:
CESO, INC.
13060 S US HIGHWAY 27
DEWITT, MI 48820
PHONE: (517) 212-4185
CONTACT: MANDY GUASS
EOR: ZACH FRESHNER

GOVERNING AGENCIES AND UTILITY COMPANIES:

SEWER:
JAMES BAKER, P.E.
CITY OF KALAMAZOO
241 W SOUTH STREET
KALAMAZOO, MI 49007
EMAIL: COKPUBLICSERVICES@KALAMAZOOCITY.ORG

WATER:
JAMES BAKER, P.E.
CITY OF KALAMAZOO
241 W SOUTH STREET
KALAMAZOO, MI 49007
EMAIL: COKPUBLICSERVICES@KALAMAZOOCITY.ORG

STORMWATER:
JAMES BAKER, P.E.
CITY OF KALAMAZOO
241 W SOUTH STREET
KALAMAZOO, MI 49007
EMAIL: COKPUBLICSERVICES@KALAMAZOOCITY.ORG

ZONING:
PETE ELDRIDGE, ZONING ADMINISTRATOR
CITY OF KALAMAZOO
241 W SOUTH STREET
KALAMAZOO, MI 49007
EMAIL: ELDRIDGE@KALAMAZOOCITY.ORG

PROPERTY DATA:

PARCEL OWNER: 7-ELEVEN (AKA SPEEDWAY LLC)

PARCEL ID: 06-91-012-233

ADDRESS: 3050 OAKLAND DRIVE
KALAMAZOO, MI 49008

PROPERTY AREA: 0.65 AC

ZONING: C-NODE

PROPOSED USE: CONVENIENCE STORE / GAS STATION

DEVELOPMENT CONDITIONS:	PERVIOUS	IMPERVIOUS
EXISTING:	0.25 AC	0.40 AC
PROPOSED:	0.25 AC	0.40 AC

BUILDING AREA: 1,685 SF

	REQUIRED	PROPOSED
BUILDING SETBACKS		
FRONTAGE ALONG STREET:	0'	36.8'
SIDE:	0'	10.3'
REAR:	25'	41.3'

FLOODPLAIN DESIGNATION: PARCEL IS LOCATED WITHIN "ZONE X" AS INDICATED BY THE FLOOD INSURANCE RATE MAP (FIRM) COMMUNITY PANEL NUMBER 26077C0188D, EFFECTIVE DATE: 02/17/2010; PUBLISHED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY.

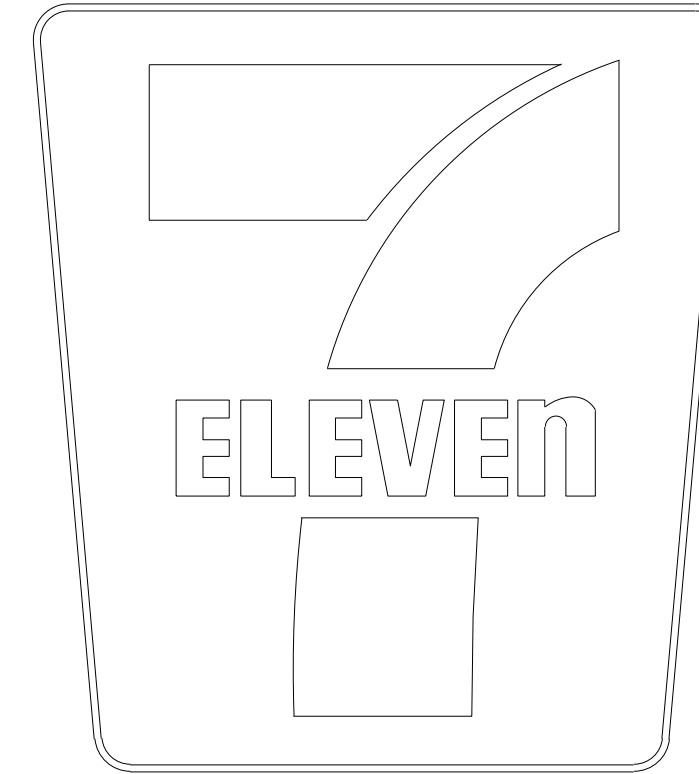
CITY OF KALAMAZOO, KALAMAZOO COUNTY, MICHIGAN

CONSTRUCTION PLANS

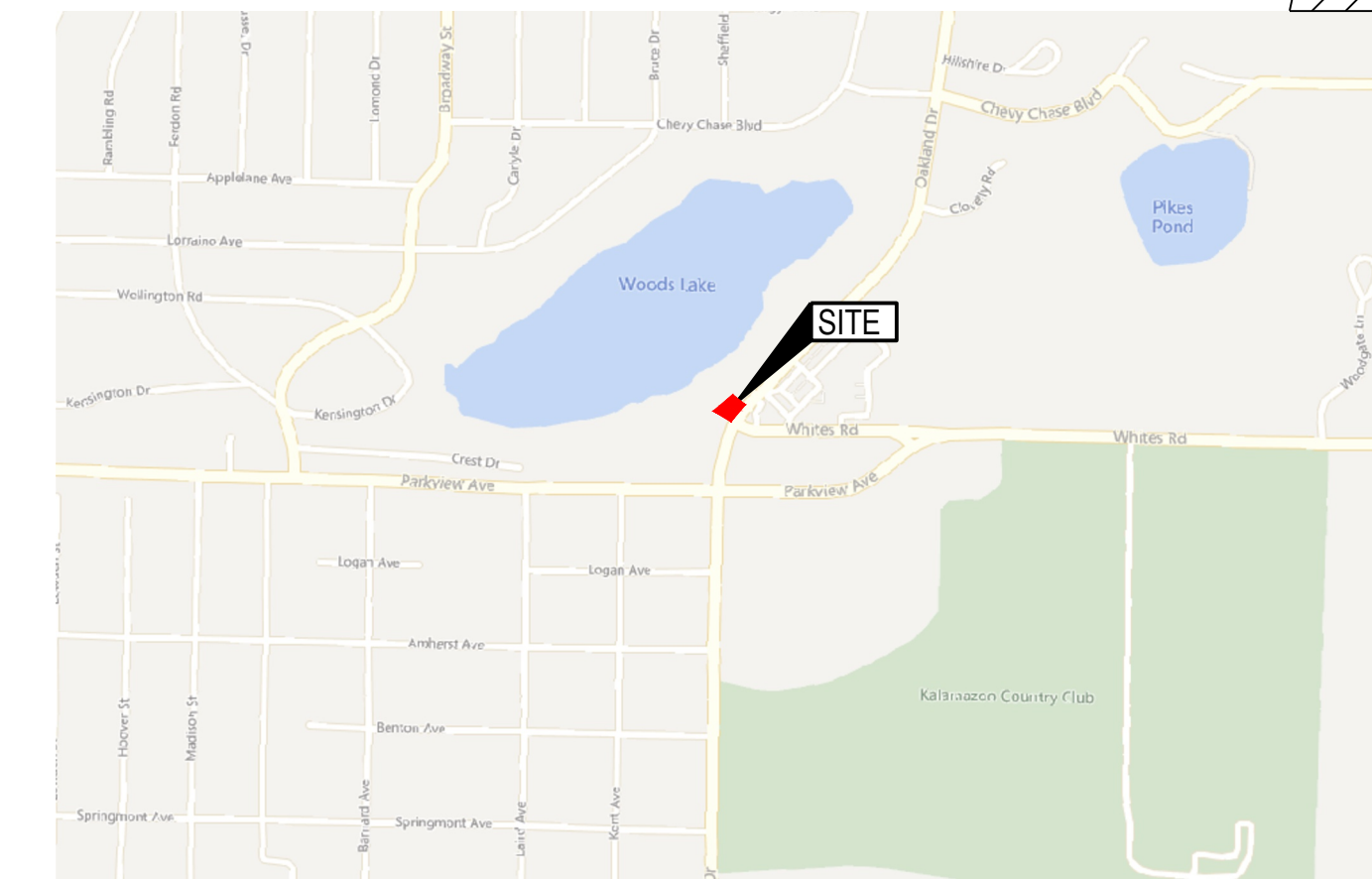
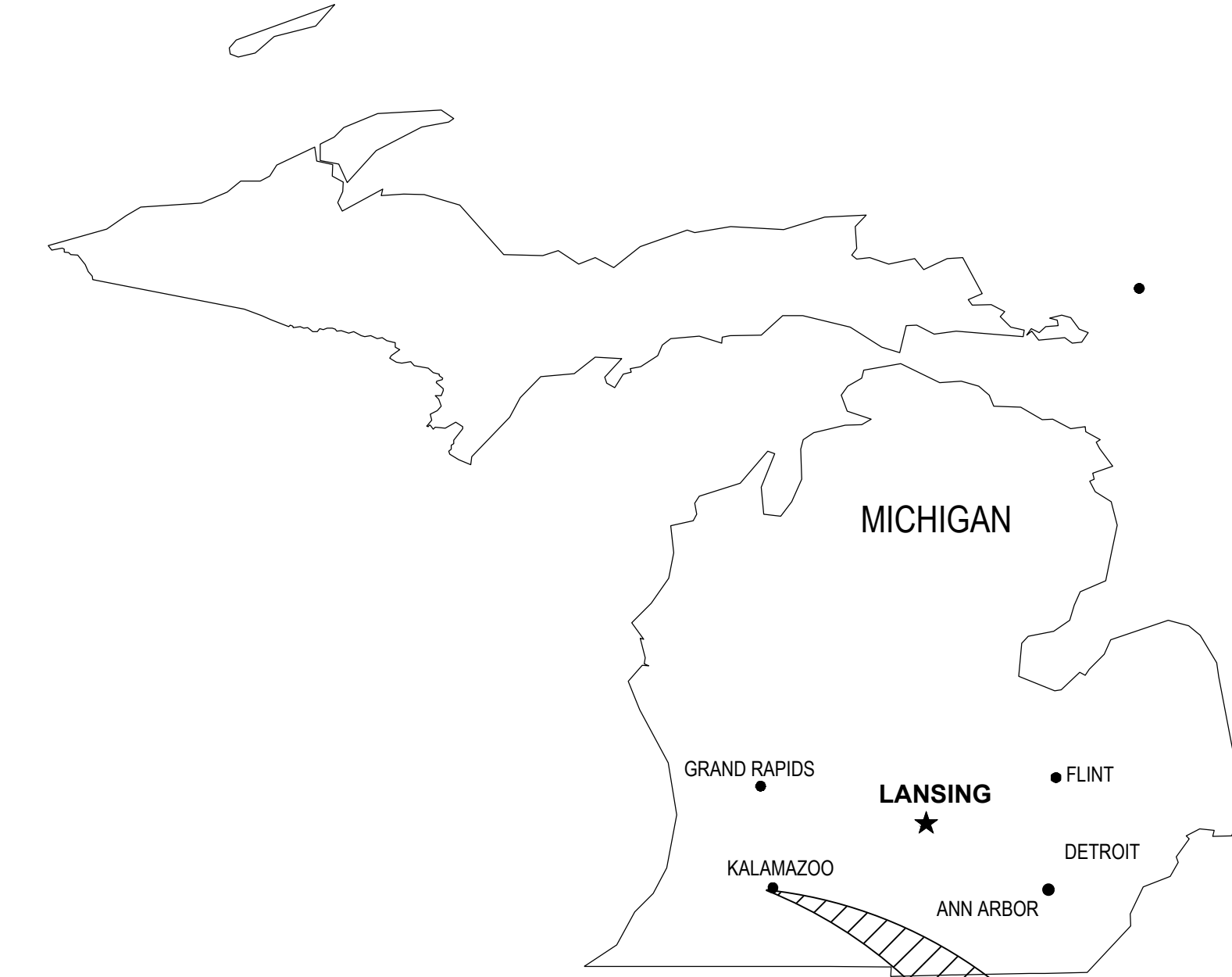
FOR

7-ELEVEN

3050 OAKLAND DRIVE
KALAMAZOO, MI 49008



Sheet List Table	
Sheet Number	Sheet Title
CV	COVER SHEET
CD	DEMOLITION PLAN
CS	SITE PLAN
CS1	DIMENSION PLAN
CR	CIRCULATION PLAN
CU	UTILITY PLAN
CU1	UTILITY DETAIL
CE	SWPPP PHASE 1
CE1	SWPPP PHASE 2
CE2	SWPPP NOTES & DETAILS
CG	GRADING PLAN
CPC-1	DETAILS
CYE-A	DETAILS
CUD-1	DETAILS
DET-1	CONSTRUCTION DETAILS
T1.0	MAINTENANCE OF TRAFFIC NOTES
T1.1	MAINTENANCE OF TRAFFIC PLAN - PHASE ONE
1 OF 1	TOPOGRAPHIC SURVEY



VICINITY MAP
NO SCALE

SURVEY PROVIDED BY:
GEODETIC DESIGNS, INC.
2300 N. GRAND RIVER AVE.
LANSING, MI 48906
PHONE: 517.908.0008
DATED: 2022.10.31

CONTRACTOR TO VERIFY EXISTING CONDITIONS PRIOR TO BID AND CONSTRUCTION.

BENCHMARK DATUM: NAVD88
BM "A": SITE BM "A"
TOP OF WESTERLY BOLT ON WEST LEG OF GAS STATION
916.78



3001 Rigby Rd., Suite 300
Mansfield, OH 43340
Phone: 637.435.8584 Fax: 688.208.4826



7-ELEVEN - KALAMAZOO
3050 OAKLAND DRIVE
KALAMAZOO, MICHIGAN 49008

7-ELEVEN, INC.

Revisions / Submissions		
ID	Description	Date
1	CITY COMMENTS	03/06/2026
2	AHJ COMMENTS	05/27/2026

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Project Number: 764708
Scale: N/A
Drawn By: TEP
Checked By: JDC
Date: 08/12/2025
Issue: CONSTRUCTION PLANS

Drawing Title:
COVER SHEET

CV

C:\DCI\ACCDocs\CESO7-Eleven Kalamazoo MI 1786\Project Files\CESO03-CIVIL\PLAN\LOT764708_COVER SHEET & GEN NOTES.dwg - 5/27/2026 - Lisa Guntter

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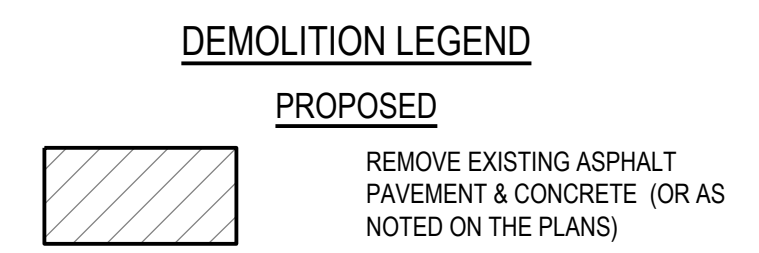
LEGEND

	CURBING TO REMAIN
	CURBING TO BE REMOVED
	UTILITY LINE TO BE REMOVED &/OR RELOCATED
	FENCE
	STM - STORM SEWER
	SAN - SANITARY SEWER
	G - GAS LINE
	W - WATER LINE
	UGT - TELEPHONE LINE
	UGE - UNDERGROUND ELECTRIC LINE
	OHE - OVERHEAD ELECTRIC LINE
	SAWCUT LINE
	UTILITY POLE
	LIGHT POLE
	GUY WIRE
	SIGN (AS NOTED)
	HYDRANT

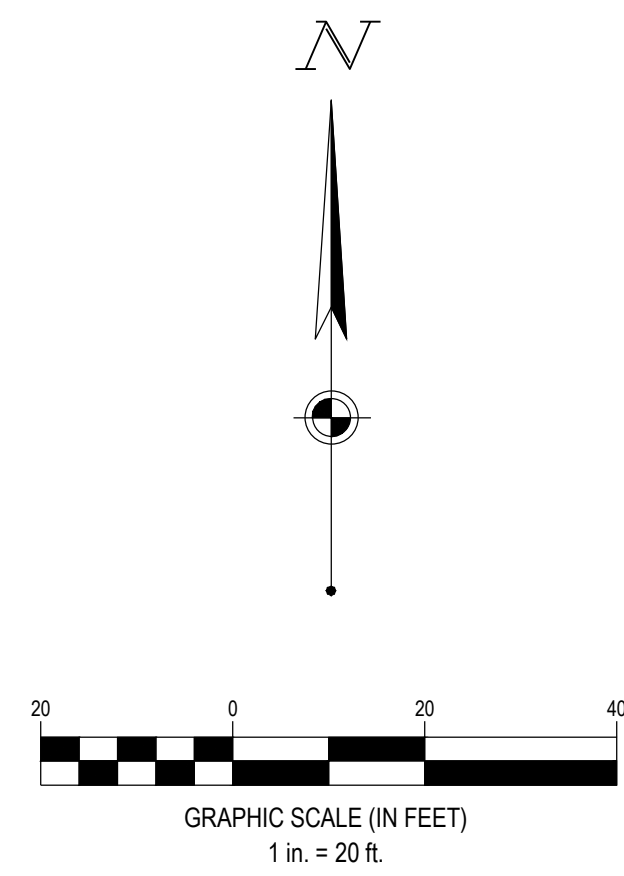
- A. GENERAL NOTES**
- CONTRACTOR SHALL NOTIFY THE OWNER OF ANY UNFORSEEN CONDITIONS.
 - THE PROPERTY CORNERS SHALL BE MARKED BY OWNER AND PROTECTED AND MAINTAINED BY CONTRACTOR.
 - IF DAMAGED AS A RESULT OF THIS CONTRACT, ANY ITEMS TO REMAIN SHALL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
 - CONTRACTOR SHALL NOTIFY LOCAL UTILITIES 48 HRS. PRIOR TO DEMOLITION.
 - CONTRACTOR SHALL INSPECT OVERALL SITE PRIOR TO CONSTRUCTION START AND VERIFY THAT THE ALTA SURVEY INDICATES THE CORRECT TOPOGRAPHY. IF ANY INACCURACIES ARE NOTED, PLEASE CONTACT OWNER'S REPRESENTATIVE.
 - CONTRACTOR SHALL COORDINATE DEMOLITION WORK WITH ALL UTILITIES AND COMPLY WITH REGULATIONS AND STANDARDS FOR EACH UTILITY.
 - WHEN REMOVING EXISTING UTILITY, CAP UTILITY AT THE MAIN.
 - CONTRACTOR SHALL PROVIDE BARRIERS, PERIMETER FENCING, PARTITIONS, FLANKING, BRACING, SHORING, LIGHTS, AND SIGNS AS NECESSARY TO PROTECT THE PUBLIC AND ADJACENT PROPERTIES.
 - CONTRACTOR SHALL EXERCISE CARE TO PREVENT DUST, VIBRATION, SETTLEMENT, OR OTHER IMPACT TO ADJACENT PROPERTY.

- B. KEY NOTES TO REMAIN**
- EXISTING POWER POLE TO REMAIN.
 - EXISTING POWER LINE TO REMAIN.
 - EXISTING GUY WIRE TO REMAIN.
 - EXISTING SIGN TO REMAIN.
 - EXISTING AUTO CANOPY TO REMAIN.
 - EXISTING CANOPY COLUMN TO REMAIN.
 - EXISTING CURB TO REMAIN.
 - EXISTING CLEANOUT TO REMAIN.
 - EXISTING TREE LINE TO REMAIN.

- C. KEY NOTES TO BE REMOVED**
- EXISTING MANHOLE TO BE REMOVED.
 - EXISTING STORM PIPE TO BE REMOVED.
 - EXISTING CATCH BASIN TO BE REMOVED.
 - EXISTING HEADWALL TO BE REMOVED.
 - EXISTING FUEL STRUCTURE TO BE REMOVED.
 - EXISTING CONCRETE TO BE REMOVED.
 - EXISTING DISPENSER TO BE REMOVED.
 - EXISTING FUEL VENTS TO BE REMOVED.
 - EXISTING BOLLARD TO BE REMOVED.
 - EXISTING CURB TO BE REMOVED.
 - EXISTING SIDEWALK TO BE REMOVED.



SEVENTY-TWO (72) HOURS BEFORE DIGGING IS TO COMMENCE, THE CONTRACTORS SHALL NOTIFY THE FOLLOWING AGENCIES: MICHIGAN UTILITIES PROTECTION SERVICE AT 811 OR 800-482-7171 AND ALL OTHER AGENCIES WHICH MIGHT HAVE UNDERGROUND UTILITIES INVOLVING THIS PROJECT AND ARE NONMEMBERS OF STATE UTILITIES PROTECTION SERVICE



7-ELEVEN, INC.

7-ELEVEN-KALAMAZOO
3050 OAKLAND DRIVE
KALAMAZOO, MICHIGAN 49008

Revisions / Submissions		
ID	Description	Date
1	CITY COMMENTS	03/06/2026

Project Number: 764708
 Scale: 1"=20'
 Drawn By: TEP
 Checked By: JDC
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 Issue: CONSTRUCTION PLANS

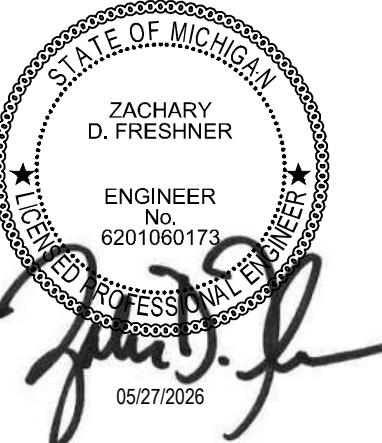
Drawing Title:
DEMOLITION PLAN

CD



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Mansfield, OH 43340
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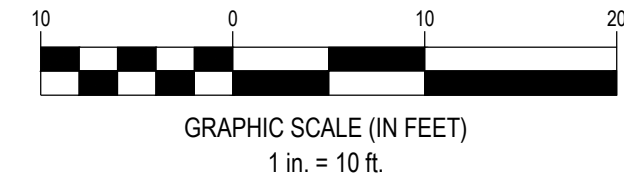
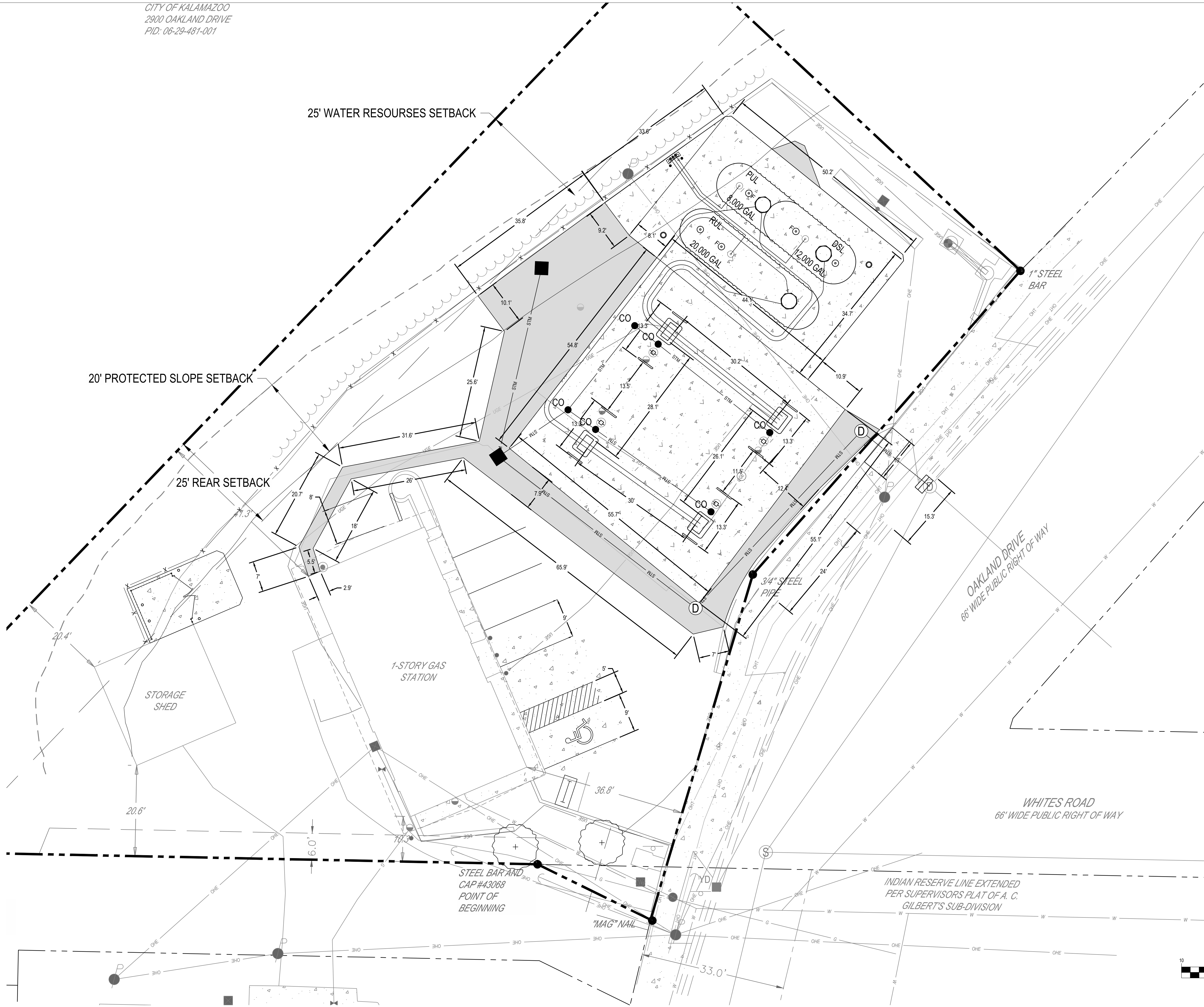
7-ELEVEN, INC.
7-ELEVEN - KALAMAZOO
3050 OAKLAND DRIVE
KALAMAZOO, MICHIGAN 49008

Revisions / Submissions		
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1	CITY COMMENTS	03/06/2026

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Project Number: 764708
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Drawing Title:
DIMENSION PLAN

CS1

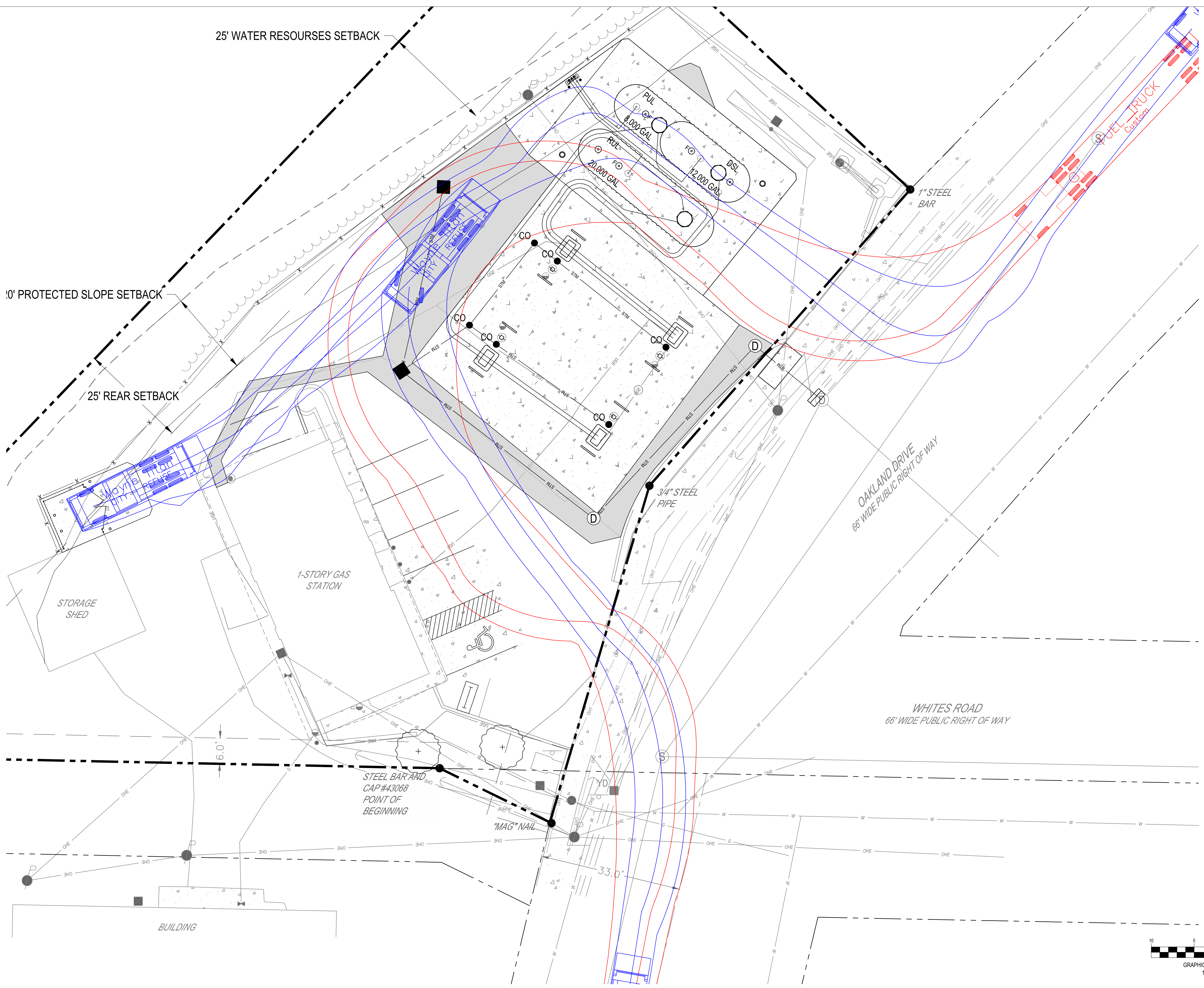


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25' WATER RESOURCES SETBACK

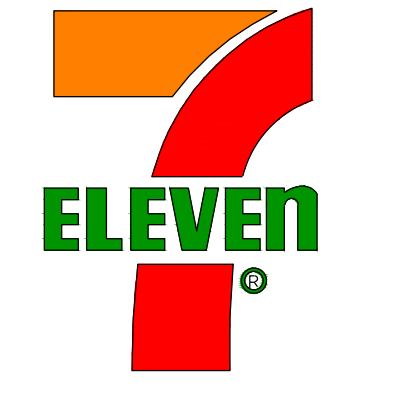
10' PROTECTED SLOPE SETBACK

25' REAR SETBACK



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7-ELEVEN - KALAMAZOO
3050 OAKLAND DRIVE
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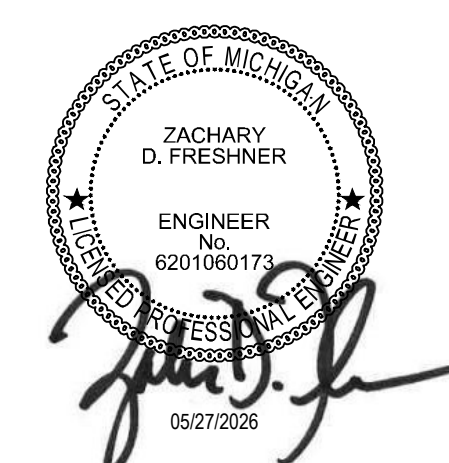
Drawing Title:
CIRCULATION PLAN

CR



GRAPHIC SCALE (IN FEET)
1 in. = 10 ft.

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7-ELEVEN, INC.

7-ELEVEN-KALAMAZOO
3050 OAKLAND DRIVE
KALAMAZOO, MICHIGAN 49008

UTILITY LEGEND

- EXISTING**
REFER TO CD FOR EXISTING FEATURES LEGEND
- PROPOSED**
- BUILDING
 - CONCRETE CURB
 - PAVEMENT/WALK
 - STORM SEWER LINE
 - UNDERGROUND ELECTRIC LINE
 - CATCH BASIN
 - STORM SEWER

A. TANKS AND PRODUCT PIPING DETAILS

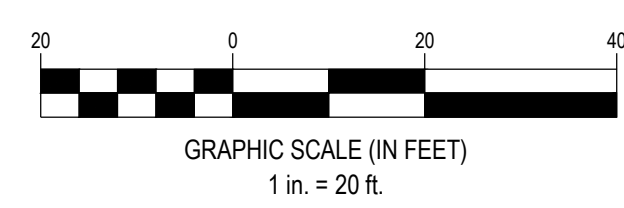
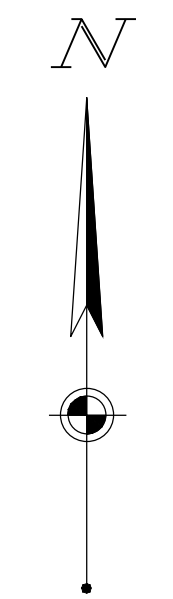
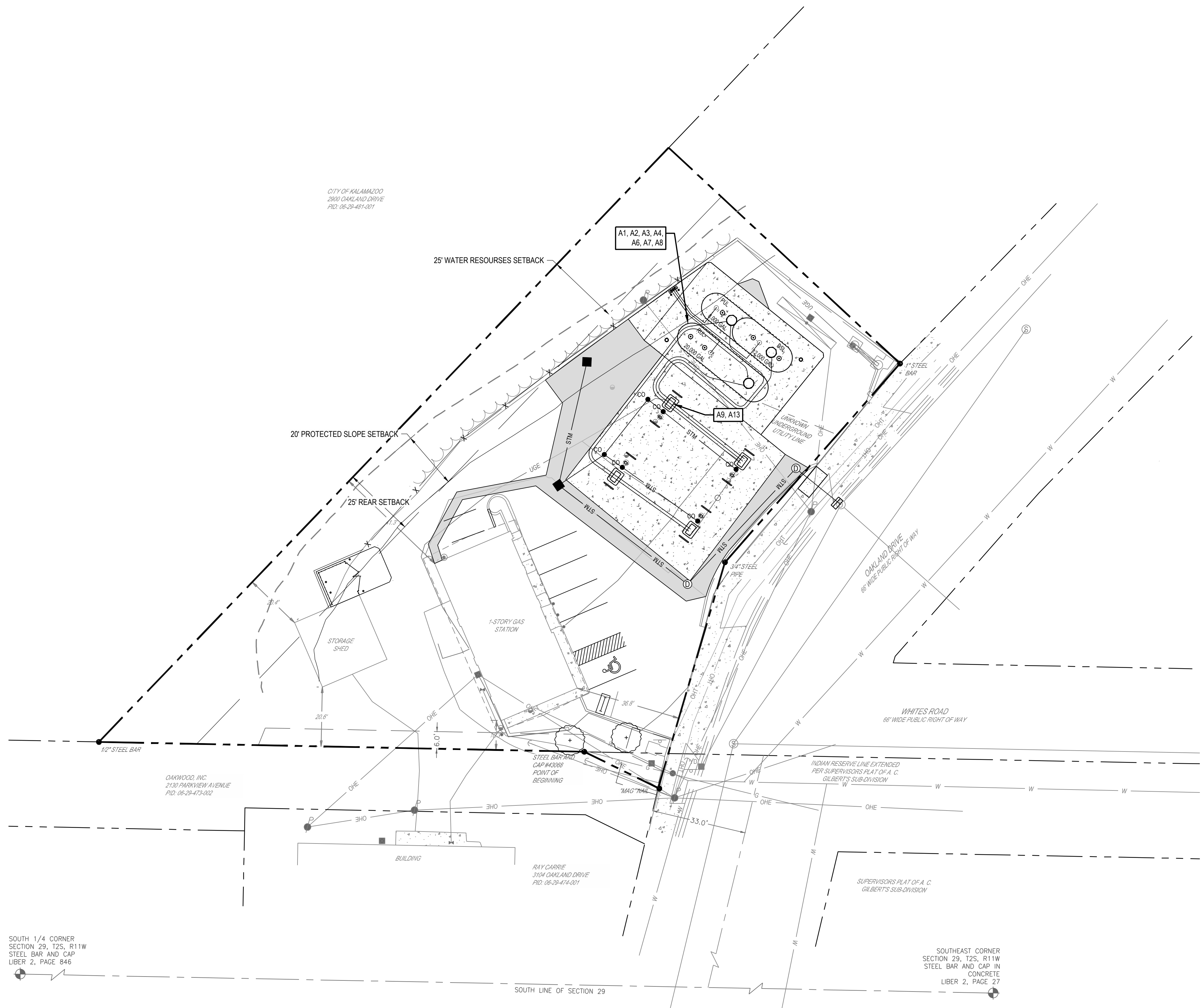
- CONTRACTOR SHALL FURNISH AND INSTALL ALL MATERIAL AS INDICATED ON PQ SERIES DRAWINGS.
- ALL NEW INSTALLATIONS AND MODIFICATIONS TO THE UNDERGROUND STORAGE TANK SYSTEM SHALL COMPLY WITH PEI RP100-05, PEI RP300-09, API RP1615 AND ALL FEDERAL, STATE AND LOCAL CODES AND ORDINANCES.
- TANKS SHALL BE ANCHORED PER STANDARD DRAWING PQ-5.
- BALLAST TANKS TO 90% FULL WITH CLEAN WATER. AFTER THE TANKS HAVE BEEN PROPERLY COVERED BY OVERBURDEN AND BEFORE PRODUCT IS DELIVERED, THE CONTRACTOR SHALL REMOVE ALL WATER. COORDINATE WITH OWNER'S REPRESENTATIVE FOR DELIVERY OF PRODUCT. ANY WATER REMAINING IN TANKS AFTER PRODUCT DELIVERY SHALL BE REMOVED AND DISPOSED OF AT THE CONTRACTOR'S EXPENSE.
- PRIME AND PAINT FILL, VAPOR RECOVERY, AND OBSERVATION WELL MANHOLE COVERS AND RIMS PER COLOR CODE IN SPECIFICATIONS. ANY MANHOLES OR STREET BOXES NOT COLOR SPECIFIED SHALL BE PRIMED AND PAINTED DARK GREY #430C PER SPECIFICATIONS.
- INSTALL TANK CONDUIT FROM TANK TO DISPENSER ELECTRICAL EQUIPMENT INSIDE BUILDING PER PQ SERIES DRAWINGS AND MANUFACTURER'S INSTRUCTIONS.
- INSTALL EVO LINE LEAK DETECTION AND ATG SYSTEM, RELATED MANHOLES, CONDUITS, AND JUNCTION BOXES PER DRAWING EVO-550 AND MANUFACTURER'S INSTRUCTIONS. INSTALL TANK INTERSTITIAL SENSORS FURNISHED BY OWNER. CONTRACTOR TO BE CERTIFIED BY FRANKLIN FUELING.
- INSTALL TANK SUMP SENSORS FURNISHED BY OWNER.
- PRODUCT PIPING LINE-UP AND FRONT SIDE "A" (F.S. "A") OF DISPENSERS SHALL BE AS SHOWN. PIPING AND CONDUIT LOCATION AND SPACING UNDER DISPENSERS SHALL BE PER STD-PQ SERIES DRAWINGS.
- INSTALL 2" COAXIAL FLEXIBLE PRODUCT PIPING (OPW FLEX LOOP SYSTEM) WITHIN 4" ACCESS/CONTAINMENT PIPE PER MANUFACTURER'S RECOMMENDATIONS AND SERIES STD-PQ DRAWINGS. THE PIPE, APPURTENANCES (INCLUDING BULKHEAD ENTRY FITTINGS), AND MISC. MATERIALS NECESSARY TO ASSEMBLE SYSTEM SHALL BE OWNER SUPPLIED.
- INSTALL A SECOND FILL PIPE ON TANKS PER DETAILS ON THE STD-PQ SERIES DRAWINGS.
- SUPPLY AND INSTALL 2" SINGLEWALL FIBERGLASS VENT LINES AND RELATED EQUIPMENT. CONTRACTOR TO LOCATE VENT STACKS A MINIMUM OF 10' AWAY FROM ELECTRICAL EQUIPMENT AND EXISTING BUILDING STRUCTURES.
- FUTURE FUEL LINE TO BE RUN TO EACH DISPENSER. LINE IS TO BE CAPPED AT EACH DISPENSER WHERE THE LINE IS NOT BEING USED (AND IN FUTURE FUEL SUMP).

B. STORM PIPING

- SUPPLY AND INSTALL STORM DRAINAGE PIPING AS SHOWN ON THE PIPE SPECIFICATIONS CHART. REFER TO DETAIL ON CUD-1.
- SUPPLY AND INSTALL (2) CATCH BASIN, WITH SPIDER DRAINS, INCLUDING CONCRETE COLLAR IF IN ASPHALT PAVEMENT.
- SUPPLY AND INSTALL STORM ROOF DRAIN PIPING AS SHOWN PER STANDARD DRAWING SERIES CUD
- PROPOSED 12" STORM LINE SHALL HAVE A CONNECTION INTO EXISTING MANHOLE IN ACCORDANCE WITH THE CITY OF KALAMAZOO STANDARDS.
- SUPPLY AND INSTALL (1) AQUASWIRL XC-2 WATER TREATMENT STRUCTURE. REFER TO UTILITY DETAIL ON SHEET CU1
- SUPPLY AND INSTALL (1) 48" MANHOLE. REQUIRED TO HAVE A SUMP DEPTH OF 3.5' REFER TO STANDARD DETAILS ON SHEET CUD-1 FOR SPECIFICATIONS.
- STORM SEWER WITHIN ROW TO BE MODT CLASS E RCP.

C. UTILITIES

- FUELING CONTRACTOR RESPONSIBLE FOR FIELD VERIFYING EXISTING ELECTRICAL ROOM, AND RELOCATING CONDUIT TRENCH AS NEEDED. FUELING CONTRACTOR TO PICK UP CONDUITS AND ROUTE TO FINAL TERMINATION AND FOR PULLING WIRE AND MAKING FINAL TERMINATIONS.
- EXISTING OVERHEAD ELECTRICAL LINE. CONTRACTOR TO VERIFY IF OVERHEAD LINE CAN REMAIN DURING EXISTING TANK REMOVAL AND NEW TANK INSTALLATION. IF, NOT CONTRACTOR TO VERIFY IF LINE CAN BE TEMPORARILY MOVED DURING CONSTRUCTION AND RECONNECTED AFTER INSTALLATION.



SEVENTY-TWO (72) HOURS BEFORE DIGGING IS TO COMMENCE, THE CONTRACTORS SHALL NOTIFY THE FOLLOWING AGENCIES: MICHIGAN UTILITIES PROTECTION SERVICE AT 811 OR 800-482-7171 AND ALL OTHER AGENCIES WHICH MIGHT HAVE UNDERGROUND UTILITIES INVOLVING THIS PROJECT AND ARE NONMEMBERS OF STATE UTILITIES PROTECTION SERVICE

Revisions / Submissions		
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1	CITY COMMENTS	03/06/2026
2	AHJ COMMENTS	05/27/2026

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Drawing Title:
UTILITY PLAN

CU

Aqua-Swirl® Polymer Coated Steel (PCS)
Stormwater Treatment System

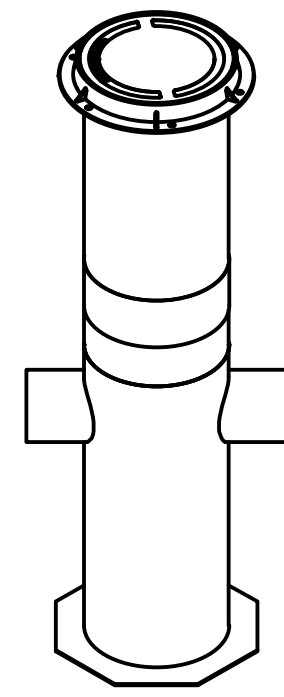
Please see accompanied Aqua-Swirl® specification notes. See Site Plan for actual system orientation.

As an alternative, 42 in [1067 mm] diameter, HS-20/25 rated precast concrete rings may be substituted. 14 in [356 mm] thickness must be maintained.

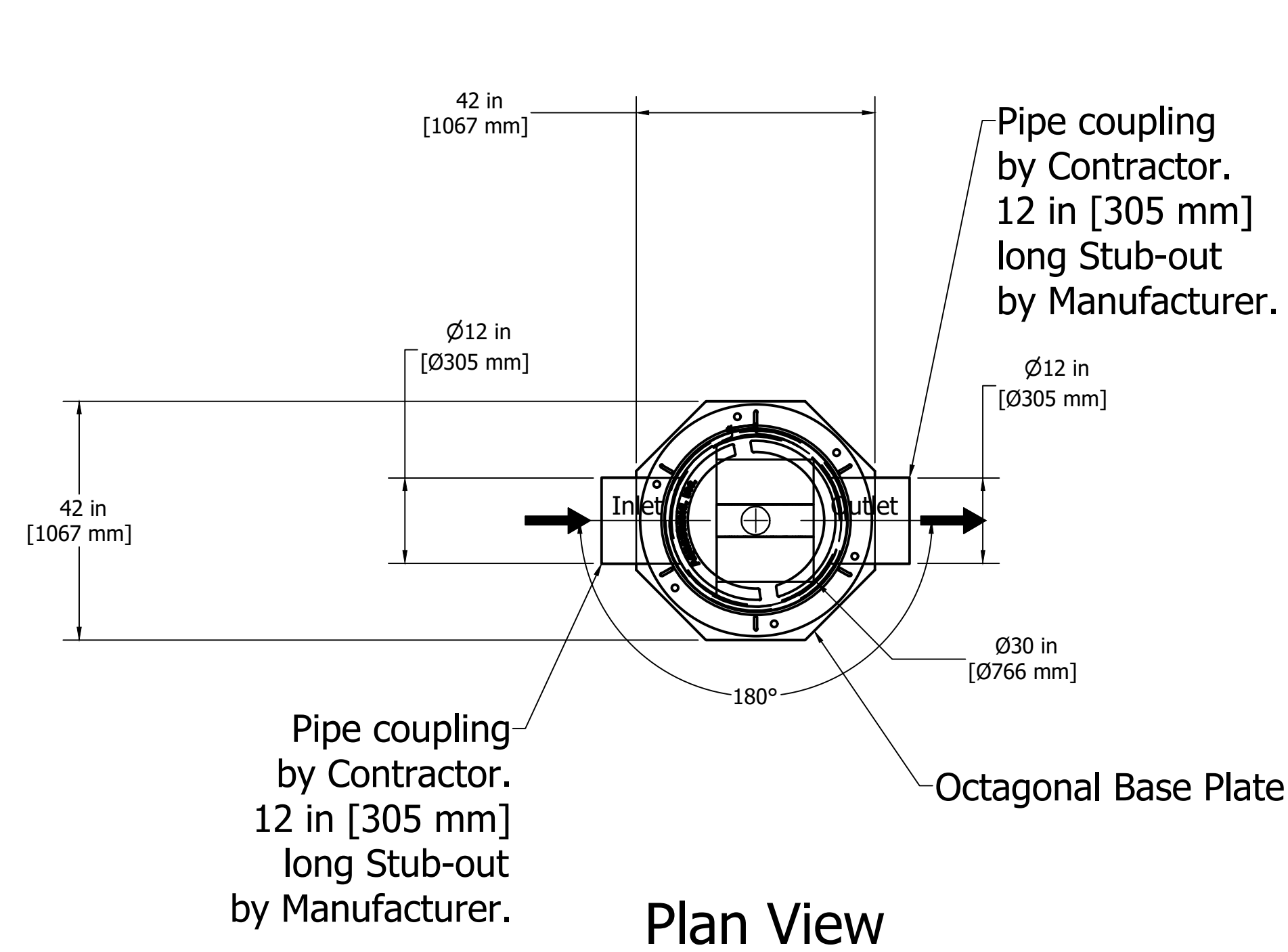
XP-2 inlet/outlet pipe size ranges up to 15 in [381 mm].

XP-2 chamber height may vary depending on inlet/outlet pipe size.

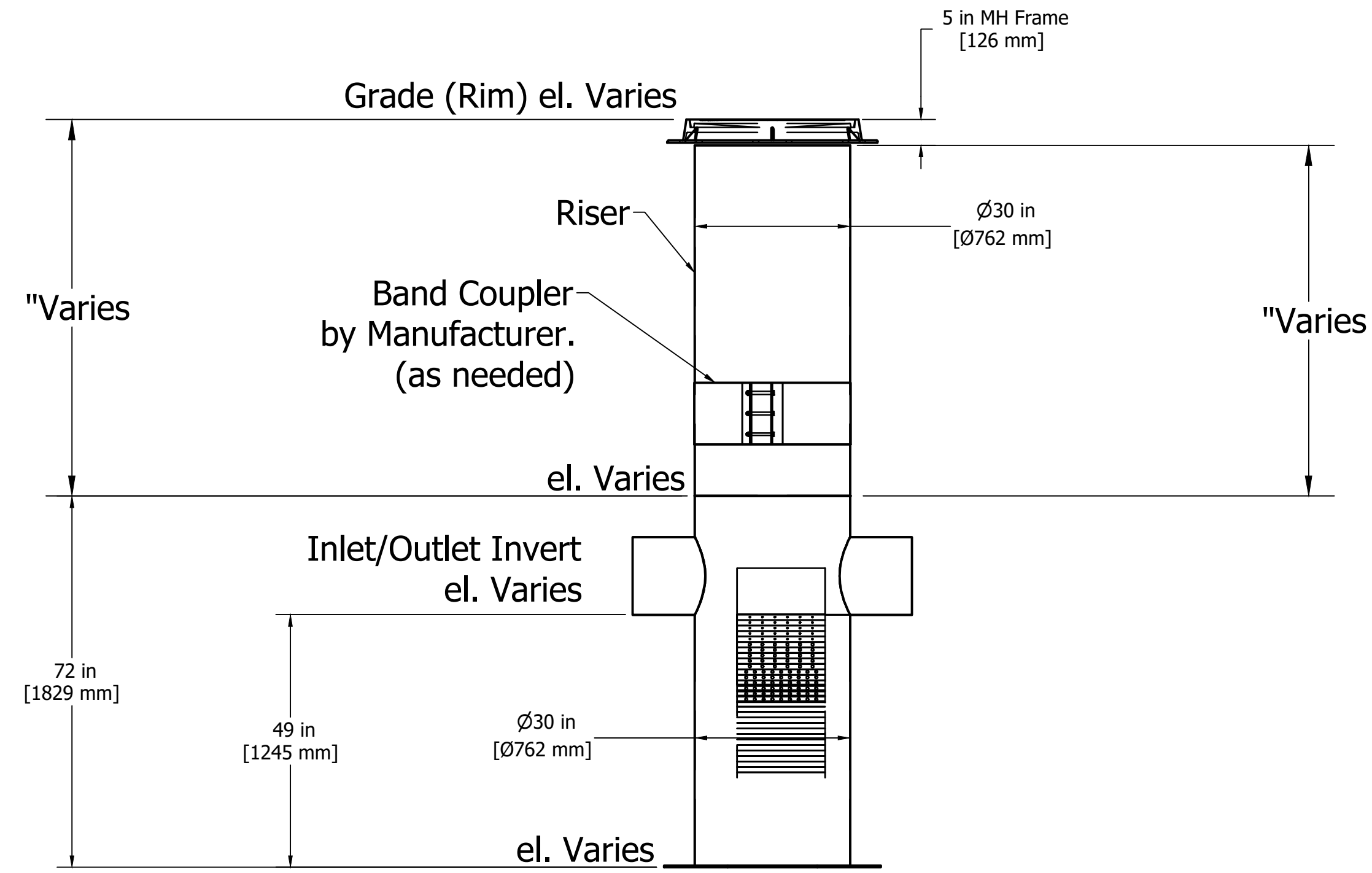
Orientation may vary from 180°, 90°, or custom angles to meet site conditions.



Projected View



Plan View



Elevation View

XP-2

XP-2 STD



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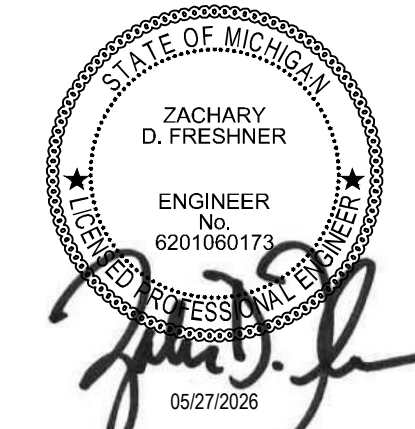
Drawing Title:
UTILITY DETAIL

CU1



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Mansfield, OH 43342
Phone: 637.435.8584 Fax: 688.208.4826



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Drawing Title:
SWPPP PHASE 1

CE

SWPPP LEGEND

PROPOSED

- MAJOR CONTOUR
- MINOR CONTOUR
- PAVEMENT/WALK
- STORM SEWER
- SILTY FENCE
- COMPOST SOCK
- GRADING/SEEDING LIMITS
- LIMIT OF DISTURBANCE
- PERMANENT EROSION CONTROL BLANKET ON ALL 3:1 SLOPES OR STEEPER
- CONSTRUCTION ENTRANCE
- STORAGE AREA
- BASIN SEDIMENT FILTER
- STORM MANHOLE
- CATCH BASIN
- CURB INLET
- STABILIZED CONSTRUCTION ENTRANCE
- TEMPORARY SEEDING
- PERMANENT SOD
- HAZARDOUS WASTE STORAGE AREA
- FUEL STORAGE AREA
- CONCRETE WASHOUT AREA
- INLET PROTECTION
- DANDY CURB (INLET PROTECTION)
- DANDY BAG (INLET PROTECTION)
- TRASH AREA

NOTES

- CONSTRUCTION ENTRANCE. PAVEMENT TO BE MAINTAINED AND TRACKOUT PREVENTED WITH A TRACK OUT MAT IF NEEDED

SEQUENCE OF CONSTRUCTION

UNLESS NOTED OTHERWISE, THE GENERAL CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL EROSION AND SEDIMENT CONTROL MEASURES IN STRICT ACCORDANCE WITH THE SWPPP THROUGHOUT THE DURATION OF THE PROJECT.

PHASE 1

- NOTIFY CITY/COUNTY ENGINEER BEFORE WORK IS TO BEGIN.
- INSTALL ALL TEMPORARY EROSION CONTROL MEASURES INCLUDING SILTY FENCE, CONSTRUCTION EXIT, FILTER SACKS, CONCRETE WASHOUT.
- SITE DEMOLITION AND CLEARING.
- ROUGH GRADING. PROVIDE TEMPORARY SEEDING OF DISTURBED AREAS WHICH ARE INACTIVE.
- MASS GRADING AS REQUIRED.

NOTE: IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INSURE THAT ALL EROSION CONTROL MEASURES ARE INSTALLED AND MAINTAINED.

NOTE: CONTRACTOR TO MAINTAIN AND CLEAN OUT ALL TEMPORARY SEDIMENT TRAPS DURING DEMOLITION AND CONSTRUCTION, IN ACCORDANCE WITH MICHIGAN STORMWATER CONTROL AND REGULATIONS.

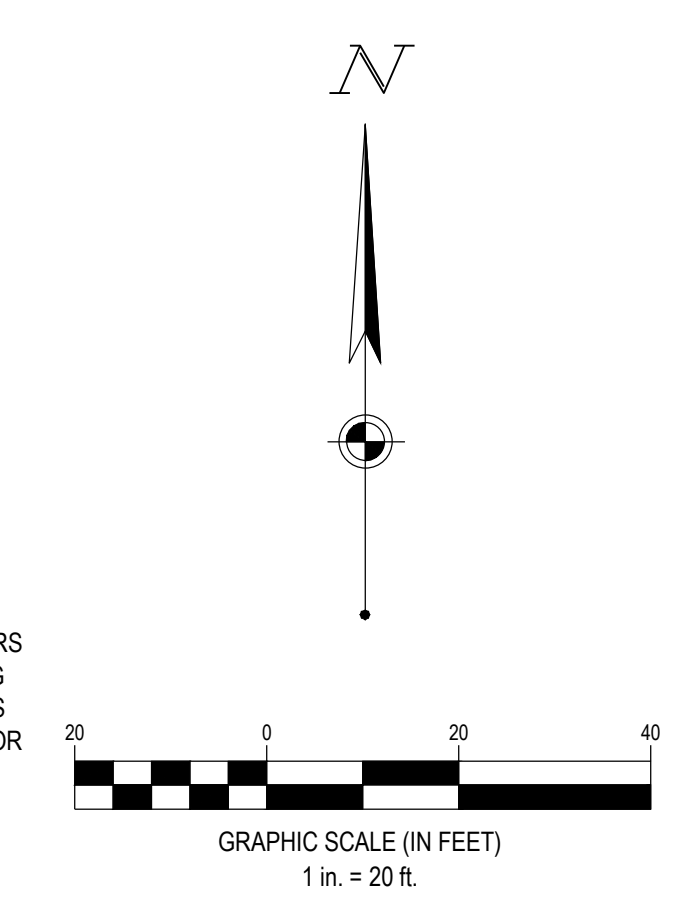


SOUTH 1/4 CORNER
 SECTION 29, T2S, R11W
 STEEL BAR AND CAP
 LIBER 2, PAGE 846

SOUTHEAST CORNER
 SECTION 29, T2S, R11W
 STEEL BAR AND CAP IN
 CONCRETE
 LIBER 2, PAGE 27



SEVENTY-TWO (72) HOURS BEFORE DIGGING IS TO COMMENCE, THE CONTRACTORS SHALL NOTIFY THE FOLLOWING AGENCIES: MICHIGAN UTILITIES PROTECTION SERVICE AT 811 OR 800-482-7171 AND ALL OTHER AGENCIES WHICH MIGHT HAVE UNDERGROUND UTILITIES INVOLVING THIS PROJECT AND ARE NONMEMBERS OF STATE UTILITIES PROTECTION SERVICE





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KALAMAZOO, MICHIGAN 49008

7-ELEVEN, INC.

SWPPP LEGEND

PROPOSED

- MAJOR CONTOUR
- MINOR CONTOUR
- PAVEMENT/WALK
- STORM SEWER
- SILTY FENCE
- COMPOST SOCK
- GRADING/SEEDING LIMITS
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- BASIN SEDIMENT FILTER
- STORM MANHOLE
- CATCH BASIN
- CURB INLET
- STABILIZED CONSTRUCTION ENTRANCE
- TEMPORARY SEEDING
- PERMANENT SOD
- HAZARDOUS WASTE STORAGE AREA
- FUEL STORAGE AREA
- CONCRETE WASHOUT AREA
- INLET PROTECTION
- DANDY CURB (INLET PROTECTION)
- DANDY BAG (INLET PROTECTION)
- TRASH AREA

SEQUENCE OF CONSTRUCTION

UNLESS NOTED OTHERWISE, THE GENERAL CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL EROSION AND SEDIMENT CONTROL MEASURES IN STRICT ACCORDANCE WITH THE SWPPP THROUGHOUT THE DURATION OF THE PROJECT.

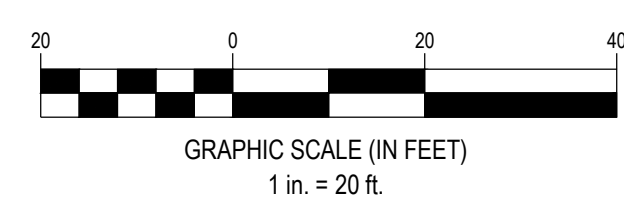
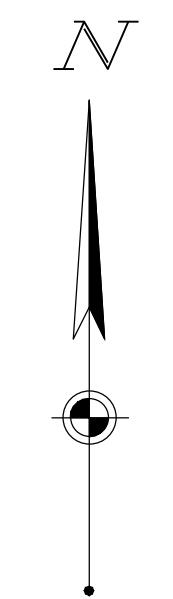
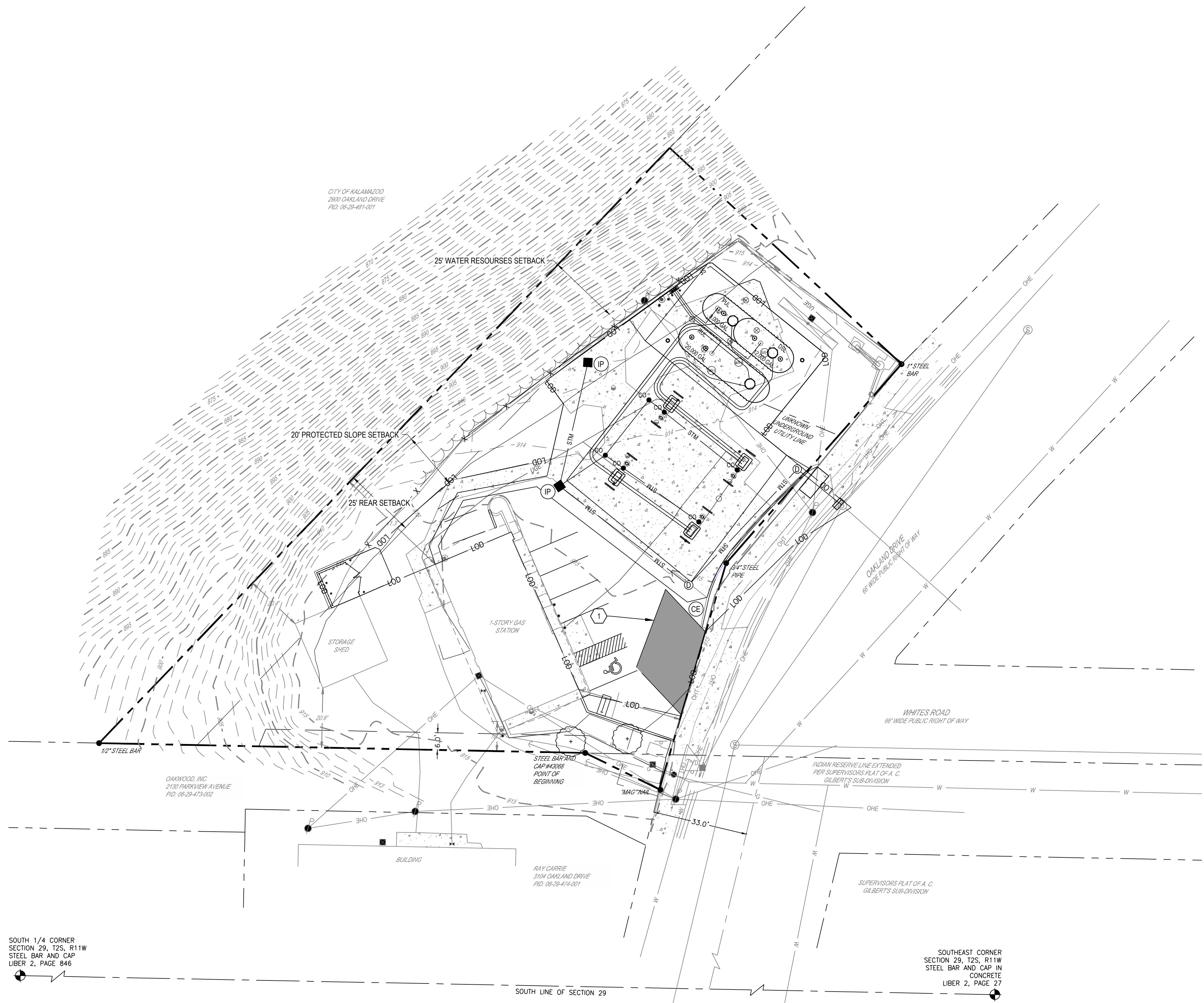
PHASE 2

INSPECTION OF EROSION CONTROL MEASURES AS OUTLINED IN NOTES, MAINTENANCE, REPAIRS AND/OR REPLACEMENTS SHALL BE MADE AS NECESSARY.

1. BEGIN BUILDING CONSTRUCTION.
2. INSTALL SANITARY SEWER AND WATER SERVICE.
3. INSTALL STORM SEWER SYSTEM AFTER THE CONTRIBUTING DRAINAGE AREAS HAVE BEEN STABILIZED.
4. INSTALL ALL PUBLIC UTILITIES (GAS, ELECTRIC, AND TELEPHONE).
5. INSTALL ALL PAVEMENT.
6. REDISTRIBUTE TOPSOIL PER LANDSCAPE PLAN. ALL AREAS DISTRIBUTED BY CONSTRUCTION THAT WILL NOT BE PAVED SHALL BE GRADED AND HAVE VEGETATION ESTABLISHED PER LANDSCAPE PLAN.
7. ONCE 70% STABILIZATION OCCURS, AND PRIOR TO THE REMOVAL OF TEMPORARY BMP DEVICES, ALL ACCUMULATED SEDIMENT SHALL BE REMOVED FROM THE SEDIMENT BASIN AND IT SHALL BE RE-GRADED AS NECESSARY TO ACHIEVE FINAL GRADING AS SHOWN. ONCE 70% OF FINAL STABILIZATION OCCURS AND SEDIMENT BASIN IS TRANSITIONED TO PERMANENT STORMWATER DETENTION, TEMPORARY BMP DEVICES SHALL BE REMOVED.
8. REMOVE SOIL EROSION CONTROL MEASURES AFTER PERMANENT VEGETATION HAS BEEN ESTABLISHED. ENSURE NOTICE OF TERMINATION (N.O.T.) IS FIELD.

NOTE: IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INSURE THAT ALL EROSION CONTROL MEASURES ARE INSTALLED AND MAINTAINED.

NOTE: CONTRACTOR TO MAINTAIN AND CLEAN OUT ALL TEMPORARY SEDIMENT TRAPS DURING DEMOLITION AND CONSTRUCTION, IN ACCORDANCE WITH MICHIGAN STORMWATER CONTROL AND REGULATIONS.



SEVENTY-TWO (72) HOURS BEFORE DIGGING IS TO COMMENCE, THE CONTRACTORS SHALL NOTIFY THE FOLLOWING AGENCIES: MICHIGAN UTILITIES PROTECTION SERVICE AT 811 OR 800-482-7171 AND ALL OTHER AGENCIES WHICH MIGHT HAVE UNDERGROUND UTILITIES INVOLVING THIS PROJECT AND ARE NONMEMBERS OF STATE UTILITIES PROTECTION SERVICE

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SOUTH 1/4 CORNER SECTION 29, T2S, R11W STEEL BAR AND CAP LIBER 2, PAGE 846

SOUTHEAST CORNER SECTION 29, T2S, R11W STEEL BAR AND CAP IN CONCRETE LIBER 2, PAGE 27

ID	Description	Date
1	CITY COMMENTS	03/06/2026

Project Number: 764708
 Scale: 1"=20'
 Drawn By: TEP
 Checked By: JDC
 Date: 08/12/2025
 Issue: CONSTRUCTION PLANS

Drawing Title: **SWPPP PHASE 2**

CE1

EROSION AND SEDIMENT CONTROL NARRATIVE

PLAN DESIGNER
CESO, INC.
13060 S US HWY 27
DEWITT, MI 48820

ENGINEER OF RECORD: MANDY GAUSS, P.E.
P: 586-855-8130
E: mandy.gauss@cesoinc.com

EXISTING SITE CONDITIONS:
PROJECT DESCRIPTION: THE SITE CONSISTS OF AN EXISTING SPEEDWAY WITH UNDERGROUND FUEL TANKS & AUTO CANOPY. THE PROJECT IS A DEVELOPMENT OF A PROPOSED 0.65 ACRE PARCEL, INTO A PROPOSED 7-ELEVEN GAS STATION. IMPROVEMENTS WILL INCLUDE A AUTO PARKING, AUTO FUELING.

DISTURBED AREA: ± ACRES

SITE DRAINS TO: **THE SITE WILL SHEET FLOW TO A SERIES OF STORM INLETS. STORM INLETS WILL SHEET FLOW INTO AN OUTLET TO A ROADSIDE DITCH WITH AN EVENTUAL OUTFALL INTO A SERIES OF CITY OWNED STORM INLETS.**

RECEIVING STREAM: UNNAMED TRIBUTARY

SITE BMP'S: FINAL LOCATIONS OF ALL SITE BMP'S INCLUDE DUMPSTER, VEHICLE FUELING AREAS, MATERIAL STORAGE, AND TOPSOIL STOCKPILES SHALL BE DETERMINED BY CONTRACTOR. IF FINAL LOCATION OF BMP'S DIFFER FROM THE LOCATIONS SHOWN, CONTRACTOR SHALL MODIFY SWPPP AND INFORM MICHIGAN EGLE OF NEW LOCATION OF BMP'S.

SOILS ON SITE CONSIST OF: -U₆ - URBAN LAND

EROSION AND SEDIMENT CONTROL MEASURES:
PROVIDE INLET PROTECTION OF ALL NEW AND EXISTING DRAINAGE STRUCTURES INDICATED ON THIS PLAN.
ANY OFF-SITE BORROW OR SPOIL AREAS SHALL BE SUBJECT TO THE REQUIREMENTS SET FORTH BY CITY OF WARREN AND/OR MICHIGAN EGLE. ALL EROSION AND SEDIMENT CONTROL MEASURES FOR OFF-SITE AREAS NOT COVERED BY A SEPARATE NOI OR SWP3 SHALL BE COORDINATED WITH THE MICHIGAN EGLE.
ALL TRENCH OR EXCAVATION GROUNDWATER CONTAINING SEDIMENT MUST BE EFFECTIVELY TREATED PRIOR TO DISCHARGE INTO THE STORM SEWER SYSTEM.
USE ALL MEANS NECESSARY TO CONTROL DUST ON THE SITE AND PREVENT TRACKING SOIL OFF SITE.

JURISDICTION: ALL EROSION AND SEDIMENT CONTROL PRACTICES ARE SUBJECT TO FIELD MODIFICATION AT THE DISCRETION OF MACOMB COUNTY AND/OR MICHIGAN EGLE.

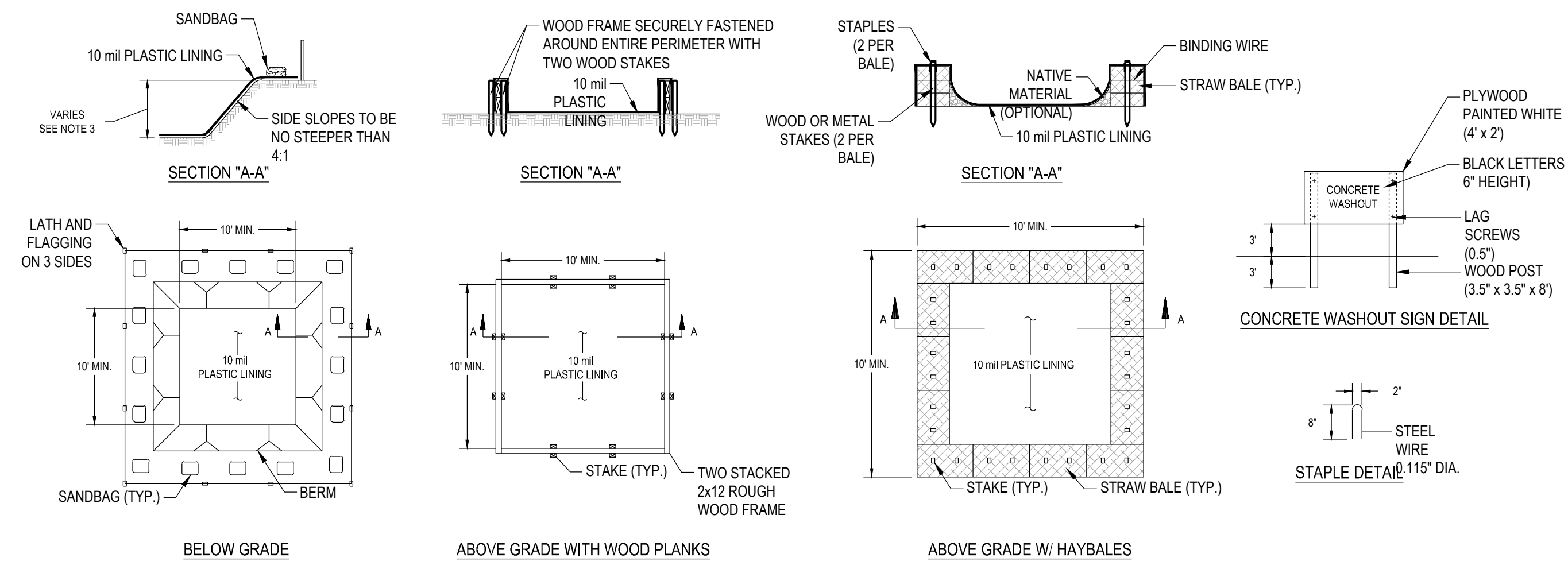
RUNOFF: THE PRE-CONSTRUCTION RUNOFF COEFFICIENT IS C=0.10. THE POST-CONSTRUCTION RUNOFF COEFFICIENT IS C=0.85.

CONSTRUCTION: ESTIMATED START DATE: 1/2026
ESTIMATED COMPLETION DATE: 6/2026

- NOTES:
- SITE EROSION CONTROLS SHALL BE CHECKED AND IF NECESSARY, REPAIR WEEKLY AND WITHIN 24 HOURS AFTER EACH RAINFALL GREATER THAN 1/8". IN THE EVENT OF CONTINUOUS RAINFALL, EROSION CONTROLS SHALL BE CHECKED DAILY.
 - ALL AREAS TO REMAIN BARE > 15 DAYS MUST BE TEMPORARILY STABILIZED.
- PROJECT IS LOCATED WITHIN ZONE X AND AE AS IT APPEARS ON FEMA FLOOD MAP PANEL #26077C0188E DATED 07/31/2024.
- REFER TO CG FOR ALL PROPOSED GRADES
 - REFER TO CE-CE2 FOR FURTHER EROSION CONTROL NOTES AND DETAILS

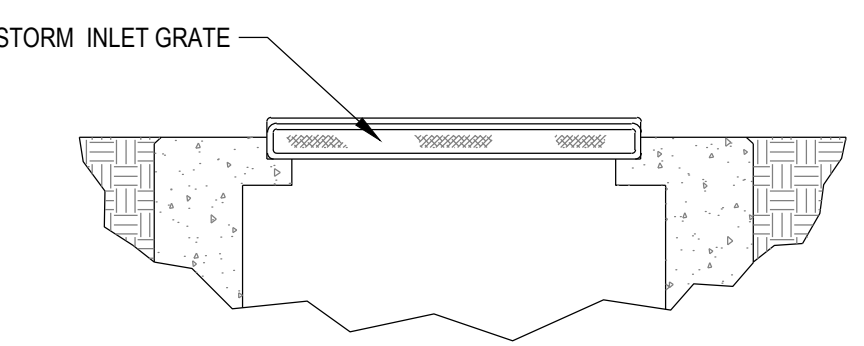
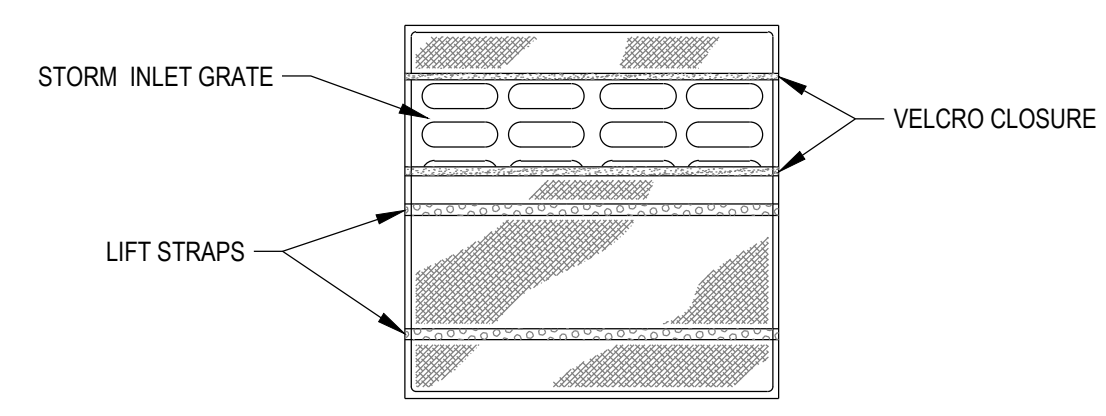
OWNERS REPRESENTATIVE FOR EROSION CONTROL MAINTENANCE:
NAME: DAVE TABBERT
PHONE #: 248-535-1736

SIGNATURE OF OPERATOR _____ DATE _____



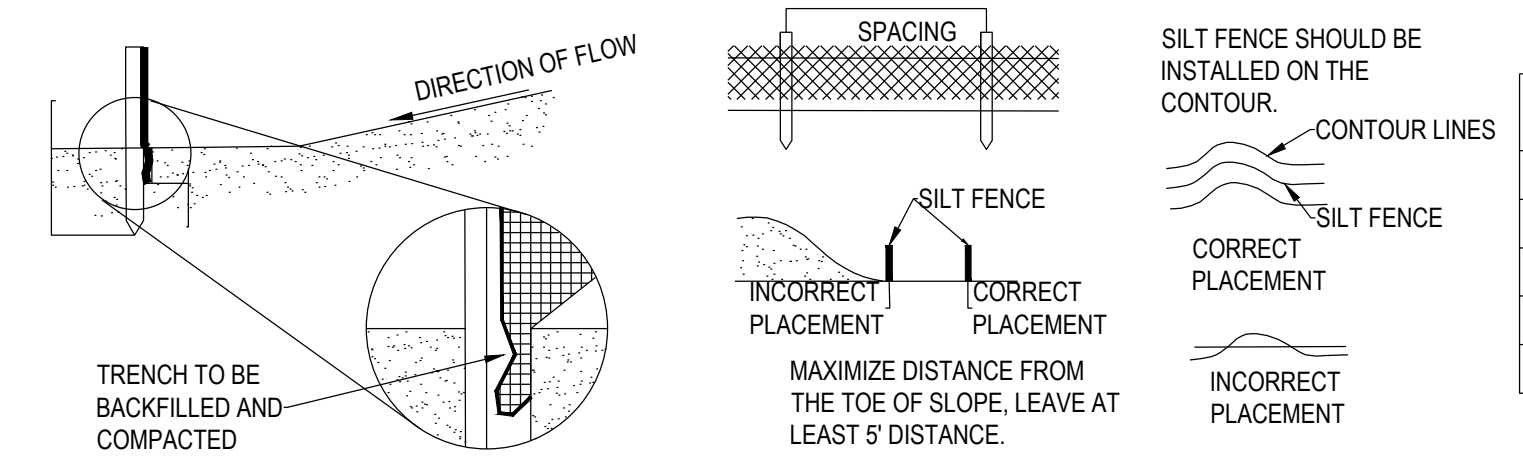
- NOTES:
- ACTUAL LAYOUT DETERMINED IN THE FIELD.
 - THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30' OF THE TEMPORARY CONCRETE WASHOUT FACILITY.
 - THE WASHOUT MUST HAVE SUFFICIENT VOLUME TO CONTAIN ALL LIQUID AND CONCRETE WASTE GENERATED BY WASHOUT OPERATIONS INCLUDING BUT NOT LIMITED TO OPERATIONS ASSOCIATED WITH GROUT AND MORTAR.

CONCRETE WASHOUT
NTS



NOTE:
INLET PROTECTION SHALL BE DANDY BAG OR APPROVED OTHER.

INLET PROTECTION
NTS



- NOTES:
- SILT FENCE SHALL BE CONSTRUCTED BEFORE UPSLOPE LAND DISTURBANCE BEGINS.
 - ALL SILT FENCE SHALL BE PLACED AS CLOSE TO THE CONTOUR AS POSSIBLE SO THAT WATER WILL NOT CONCENTRATE AT LOW POINTS IN THE FENCE AND SO THAT SMALL SWALES OR DEPRESSIONS WHICH MAY CARRY SMALL CONCENTRATED FLOWS TO THE SILT FENCE ARE DISSIPATED ALONG ITS LENGTH.
 - TO PREVENT WATER PONDED BY THE SILT FENCE FROM FLOWING AROUND THE ENDS, EACH END SHALL BE CONSTRUCTED UPSLOPE SO THAT THE ENDS ARE AT A HIGHER ELEVATION.
 - WHERE POSSIBLE, SILT FENCE SHALL BE PLACED ON THE FLATTEST AREA AVAILABLE.
 - WHERE POSSIBLE, VEGETATION SHALL BE PRESERVED FOR 5 FT. (OR AS MUCH AS POSSIBLE) UPSLOPE FROM THE SILT FENCE. IF VEGETATION IS REMOVED, IT SHALL BE ESTABLISHED WITHIN 7 DAYS FROM THE INSTALLATION OF THE SILT FENCE.
 - THE HEIGHT OF THE SILT FENCE SHALL BE A MINIMUM OF 16 IN. ABOVE THE ORIGINAL GROUND SURFACE.
 - THE SILT FENCE SHALL BE PLACED IN A TRENCH CUT A MINIMUM 6 IN. DEEP. THE TRENCH SHALL BE CUT WITH A TRENCHER, CABLE LAYING MACHINE, OR OTHER SUITABLE DEVICES WHICH WILL ENSURE ADEQUATE UNIFORM TRENCH DEPTH.
 - THE SILT FENCE SHALL BE PLACED WITH THE STAKES ON THE DOWNSLOPE SIDE OF THE GEOTEXTILE AND SO THAT THE 8 INCHES OF CLOTH ARE BELOW THE GROUND SURFACE. EXCESS MATERIAL SHALL LAY ON THE BOTTOM OF THE 6 IN. DEEP TRENCH. THE TRENCH SHALL BE BACKFILLED AND COMPACTED.
 - SEAMS BETWEEN SECTIONS OF SILT FENCE SHALL BE OVERLAPPED WITH THE END STAKES OF EACH SECTION WRAPPED TOGETHER BEFORE DRIVING INTO THE GROUND.
 - MAINTENANCE - SILT FENCE SHALL ALLOW RUNOFF TO PASS ONLY AS DIFFUSE FLOW THROUGH THE GEOTEXTILE. IF RUNOFF OVERTOPS SILT FENCE, FLOWS UNDER OR AROUND THE ENDS, OR IN ANY OTHER WAY BECOMES A CONCENTRATED FLOW, ONLY OF THE FOLLOWING SHALL BE PERFORMED, AS APPROPRIATE:
 - THE LAYOUT OF THE SILT FENCE SHALL BE CHANGED.
 - ACCUMULATED SEDIMENT SHALL BE REMOVED, OR
 - OTHER PRACTICES SHALL BE INSTALLED.

SILT FENCE
NTS

SPECIFICATIONS FOR SILT FENCE

FABRIC PROPERTIES	VALUES	TEST METHODS
GRAB TENSILE STRENGTH	90 LB. MINIMUM	ASTM D-1682
MULEN BURST STRENGTH	190 PSI MINIMUM	ASTM D-3786
SLURRY FLOW RATE	0.3 GAL/MIN/FT. MAX.	
EQUIVALENT OPENING SIZE	40-80	US STD. SIEVE CW 02215
ULTRAVIOLET RADIATION STABILITY	90% MINIMUM	ASTM - G 26

CRITERIA FOR SILT FENCE MATERIALS

- FENCE POSTS - THE LENGTH SHALL BE A MINIMUM OF 32 INCHES LONG. WOOD POSTS WILL BE 2 IN. X 2 IN. HARDWOOD OF SOUND QUALITY. THE MAXIMUM SPACING BETWEEN POSTS SHALL BE 10 FT.
- SILT FENCE FABRIC (SEE CHART BELOW)



3001 Rigby Rd., Suite 300
Mansfield, OH 44942
Phone: 937.435.8584 Fax: 888.208.4826



7-ELEVEN- KALAMAZOO
3050 OAKLAND DRIVE
KALAMAZOO, MICHIGAN 49008

7-ELEVEN, INC.

Revisions / Submissions		
ID	Description	Date
1	CITY COMMENTS	03/06/2026

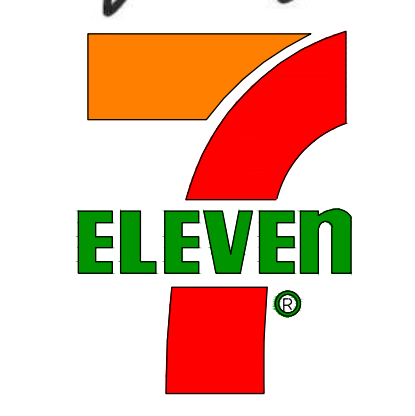
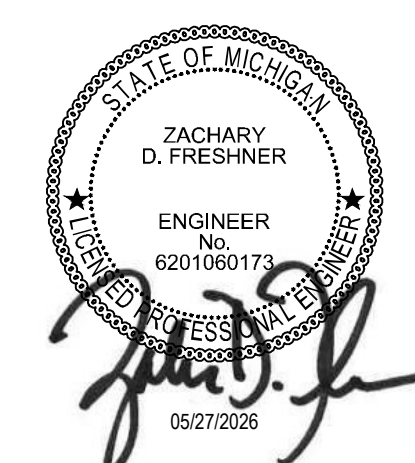
Project Number: 764708
Scale: 1"=20'
Drawn By: TEP
Checked By: JDC
Date: 08/12/2025
Issue: CONSTRUCTION PLANS

Drawing Title:
SWPPP NOTES & DETAILS

CE2



3001 Regby Rd., Suite 300
Mansfield, OH 43050
Phone: 637.435.8584 Fax: 688.208.4826



7-ELEVEN-KALAMAZOO
3050 OAKLAND DRIVE
KALAMAZOO, MICHIGAN 49008

7-ELEVEN, INC.

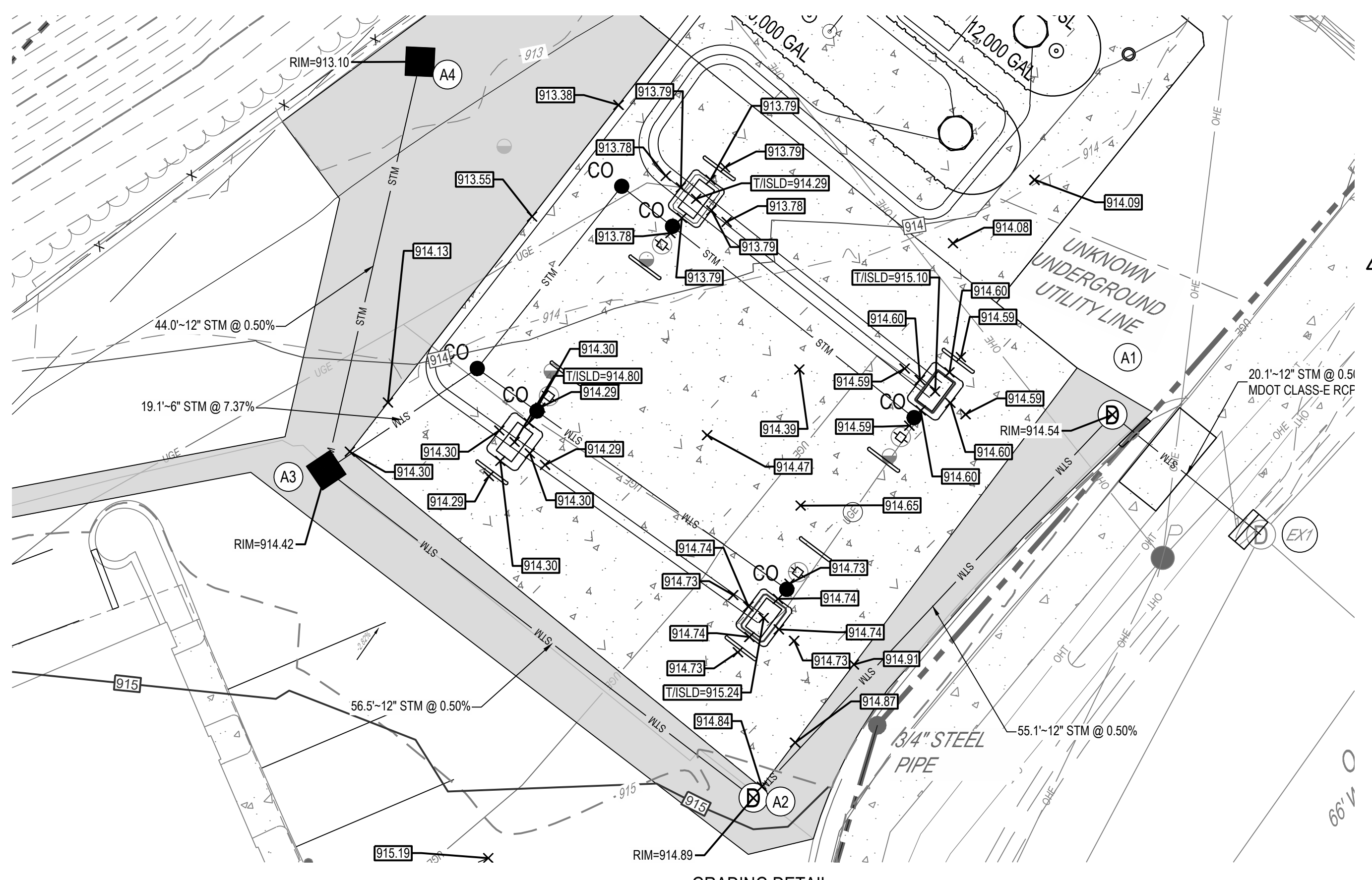
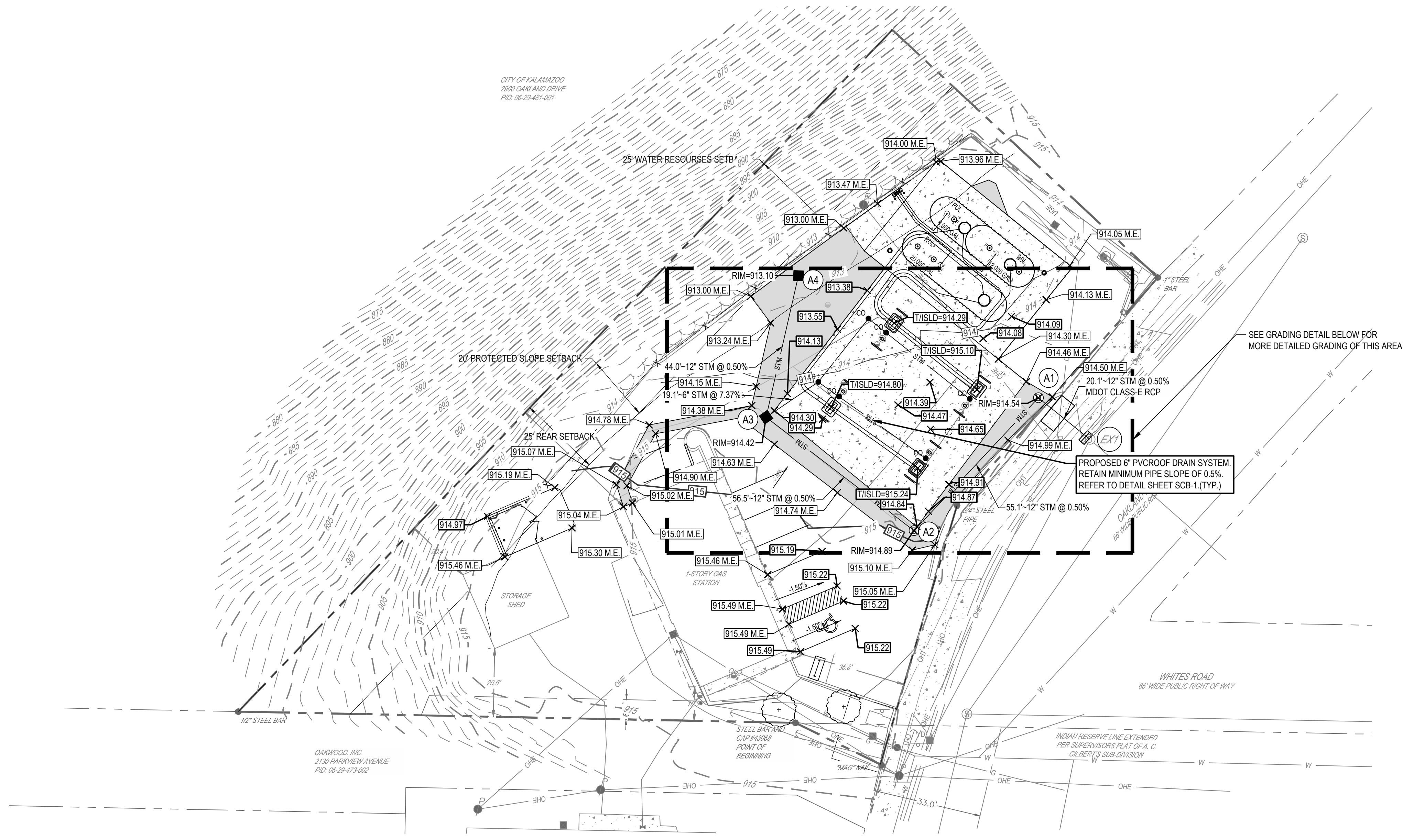
GRADING LEGEND

EXISTING

REFER TO CD FOR EXISTING FEATURES LEGEND

PROPOSED

- R/W — RIGHT-OF-WAY
- — — — — PROPERTY LINE
- — — — — SETBACK
- — — — — EASEMENT
- ▭ BUILDING
- ▭ MAJOR CONTOUR
- ▭ MINOR CONTOUR
- ▭ GRADE BREAK
- ▭ FLOW LINE
- ① STRUCTURE NUMBER
- CATCH BASIN
- ⊙ STORM MANHOLE
- XXX.XX FINISHED GRADE ELEVATION
- RIM=XXX.XX RIM ELEVATION
- BC=XXX.XX BACK OF CURB ELEVATION
- TC=XXX.XX TOP OF CURB ELEVATION
- FG=XXX.XX FINISHED GRADE ELEVATION
- TP=XXX.XX TOP OF PAVEMENT ELEVATION
- FTG=XXX.XX TOP OF FOOTING ELEVATION
- M.E. MATCH EXISTING ELEVATION
- X.XX% SLOPE ARROW
- ➔ FLOOD ROUTE



STORM SEWER STRUCTURE SCHEDULE			
NO.	STRUCTURE	RIM	INVERT
1	A1	913.60	908.99 (12) SW 908.99 (12) SE
2	A2	914.89	909.27 (12) NE 909.27 (12) NW
3	A3	914.41	909.55 (12) SE 909.55 (12) N 910.05 (6) NE
4	A4	912.88	909.77 (12) S
5	EX1	913.99	908.89 (12) NW 909.39 (12) SE 908.49 (12) SW 908.39 (12) NE

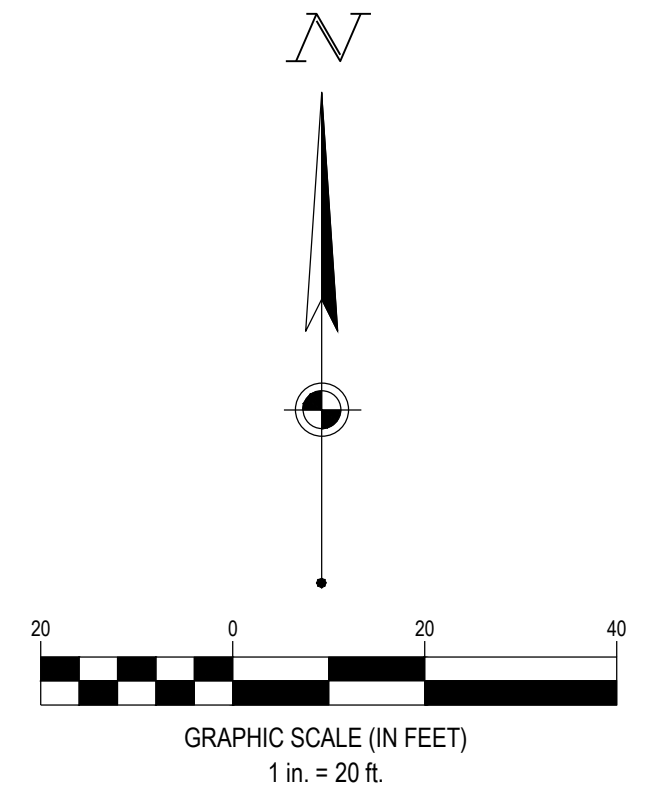
*STRUCTURE A1 REQUIRES A 3.5' SUMP TO PROVIDE CITY SPILL CONTAINMENT VOLUME.

GRADING NOTES:

- CONTRACTOR TO USE EXTREME CAUTION WHEN GRADING IN AND AROUND EXISTING UTILITIES. CONTRACTOR SHALL FIELD VERIFY LOCATION AND DEPTH PRIOR TO START OF CONSTRUCTION.
- EXCAVATE SOILS AS NECESSARY TO COMPLETE PROPOSED CONSTRUCTION. UNLESS OTHERWISE DIRECTED (REFER TO GEOTECHNICAL REPORT), USE ALL EXCAVATED SOILS AS FILL ON SITE. ANY SOILS THAT CANNOT BE UTILIZED ON SITE SHALL BE LOADED DIRECTLY ONTO TRANSPORT TRUCKS AND HAULED TO OWNER'S APPROVED LOCATION. ANY IMPACTED SOILS ENCOUNTERED SHALL BE LOADED SEPARATELY AND SHALL NOT BE COMINGLED WITH CLEAN SOILS. ANY EXCAVATED SOIL OR MATERIALS THAT LEAVE THE SITE MUST GO TO AN APPROVED LANDFILL LOCATION OR BE ACCOMPANIED BY AN APPROVED BILL OF SALE.
- BID AS ALTERNATE A: IMPACTED SOILS SHALL BE PLACED ON MINIMUM 6 MIL. VISQUEEN AND COVERED WITH 40' X 100' SHEETS OF 4 MIL. VISQUEEN. A SAND BERM SHALL BE CONSTRUCTED AROUND ENTIRE PILE OF SOIL TO HOLD THE VISQUEEN DOWN. ALL SEAMS OR OVERLAP (6" MINIMUM) IN THE VISQUEEN COVERING SHALL BE SECURED WITH WEIGHTED MATERIAL.
- BID AS ALTERNATE B: PROVIDE DEWATERING NECESSARY FOR ANY EXCAVATIONS AND TO PREVENT TANKS FROM FLOATING WHILE THE TANKS ARE NOT COVERED BY PROPER OVERBURDEN. DEWATERING SHALL CONSIST OF SUPPLYING EQUIPMENT AND LABOR TO MAINTAIN PUMPING ACTIVITIES AS NECESSARY. COORDINATE WITH OWNER'S REPRESENTATIVE TO DETERMINE WHERE WATER CAN BE PUMPED. IDENTIFY THIS COST AS A SPECIFIC LINE ITEM IN THE BID. DISPOSAL OF CONTAMINATED WATER SHALL BE THE OWNER'S RESPONSIBILITY.
- THE ENVIRONMENTAL CONSULTANT AND THE CONTRACTOR SHALL USE THE "SOILS WORKSHEET" TO ACCOUNT FOR ALL EXCAVATED SOILS.
- A REPORT OF THE SUBSURFACE INVESTIGATION IS MADE AVAILABLE TO THE CONTRACTOR AT TIME OF BIDDING. THE BASE BID SHALL INCLUDE LAND BALANCING ACTIVITIES BASED ON THE ASSUMPTION THAT EXCAVATED SOIL CAN BE REUSED AS NECESSARY FOR CONSTRUCTION. UPON REVIEWING THE SUBSURFACE INVESTIGATION, CONTRACTOR SHALL INCLUDE THE FOLLOWING AS ALTERNATE:
 - A. OVER-EXCAVATE AREAS OF UNSUITABLE SOILS AND STABILIZE AREAS PER THE SUBSURFACE INVESTIGATION. ESTIMATE QUANTITY OF OVER-EXCAVATED AREAS AND REPLACEMENT BACKFILL IN EACH AREA, ALONG WITH THE TYPE OF BACKFILL. ACTUAL QUANTITIES WILL BE VERIFIED DURING CONSTRUCTION PER THE DIRECTION OF THE GEOTECH CONSULTANT AND OWNER'S REPRESENTATIVE, WITH DETAILED CHANGE ORDERS SUBMITTED TO OWNER.
- ANY DISCREPANCIES BETWEEN ELEVATIONS SHOULD BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE AND THE DESIGN ENGINEER.
- CONTRACTOR TO FIELD VERIFY LOCATION OF CANOPY DRAINS AND TIE INTO PROPOSED STORM SEWER.



SEVENTY-TWO (72) HOURS BEFORE DIGGING IS TO COMMENCE, THE CONTRACTORS SHALL NOTIFY THE FOLLOWING AGENCIES: MICHIGAN UTILITIES PROTECTION SERVICE AT 811 OR 800-482-7171 AND ALL OTHER AGENCIES WHICH MIGHT HAVE UNDERGROUND UTILITIES INVOLVING THIS PROJECT AND ARE NONMEMBERS OF STATE UTILITIES PROTECTION SERVICE



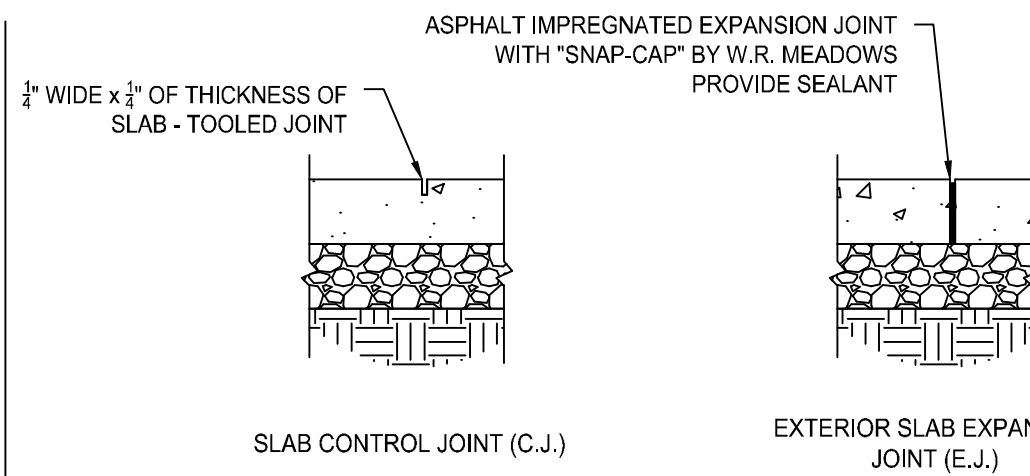
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Revisions / Submissions

ID	Description	Date
1	CITY COMMENTS	03/06/2026
2	AHJ COMMENTS	05/27/2026

Project Number: 764708
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CG



FOR 5' OR 8' WALKS, INSTALL A CONTROL JOINT EVERY 5' AND ONE IN THE CENTER (5' FROM THE BACK OF THE BUILDING FOR EXAMPLE)

DETAILS ONLY APPLY TO BUILDING SIDEWALK. THEY DO NOT APPLY TO INTERIOR SLAB OR SITE CONCRETE.

10 CONCRETE WALK JOINTING SECTIONS
NOT TO SCALE

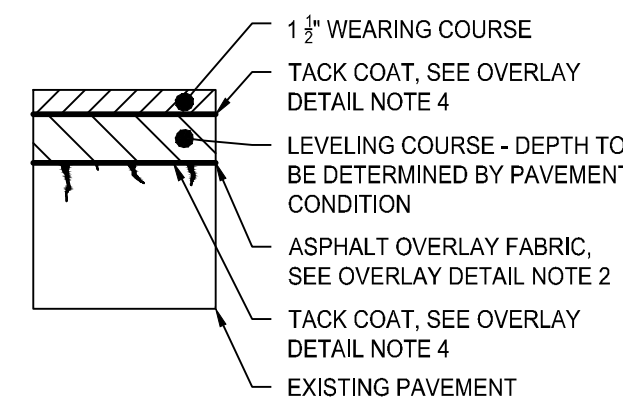
ASPHALT SEALING

- SURFACE CLEANING**
THE SURFACE TO BE SEALED SHALL BE FREE FROM DIRT AND OTHER FOREIGN MATTER. ANY ACCUMULATIONS OF OIL OR GREASE SHALL BE CLEANED OFF THE PAVEMENT WITH DETERGENT SOLUTION. THE RESIDUE OF WHICH SHALL BE THOROUGHLY WASHED AWAY WITH CLEAN WATER BEFORE SEALANT IS APPLIED.
- SEALING:**
THE SEAL COATING MATERIAL SHALL BE COMPRISED OF A RUBBERIZED COAL-TAR PITCH EMULSION AND SHALL MEET OR EXCEED FEDERAL SPECIFICATION R-P-355b. SUPPLIED IN CONCENTRATED FORM, IT SHALL BE DILUTED A MINIMUM OF 15% AND A MAXIMUM OF 25% WITH FRESH, CLEAN WATER. THE SEALANT MATERIAL SHALL CONTAIN 5-6 LBS. PER GALLON OF FINE, CLEAN, DRY SILICAS AND MEETING THE FOLLOWING GRADATION:

SIEVE SIZE	% PASSING
#16	100
#30	80-100
#50	10-60
#100	0-5

THE SEALANT SHALL BE APPLIED TO THE PAVEMENT IN TWO COATS AT THE RATE OF 0.08 TO 0.12 GALLONS PER SQUARE YARD. A LATEX ADDITIVE MAY ALSO BE ADDED TO THE SEALANT TO ALLOW FOR QUICKER DRYING TIME IN THOSE AREAS SPECIFIED BY OWNER'S REPRESENTATIVE.

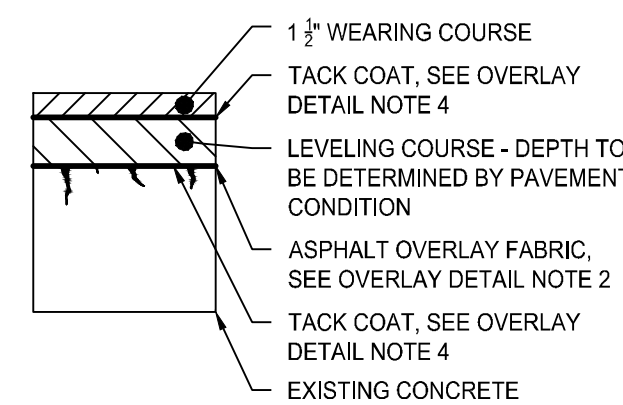
7 ASPHALT SEALING NOTES
NO SCALE



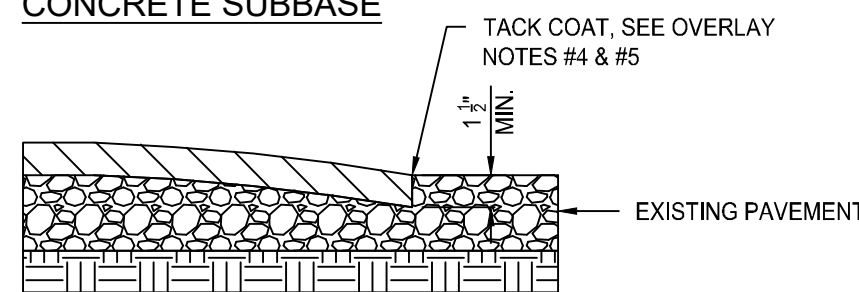
OVERLAY DETAIL NOTES:

- THE OVERLAY SHALL BE PLACED IN ACCORDANCE WITH OWNER'S SPECIFICATIONS.
- ALL FAILED AREAS SHALL BE REPAIRED WITH PROPER PATCHES BEFORE OVERLAY IS PLACED.
- IF THE SURFACE IS DISTURBED, THE CONTRACTOR SHALL CONSTRUCT LEVELING COURSES TO RESTORE PROPER LINE AND CROSS SECTION.
- THE PAVEMENT SHALL BE THOROUGHLY CLEANED AND A TACK COAT OF ASPHALT SHALL BE APPLIED BEFORE THE OVERLAY IS PLACED.
- ALL VERTICAL SURFACES COMING IN CONTACT WITH THE OVERLAY SHALL BE SPRAYED OR PAINTED WITH A UNIFORM COATING OF EMULSIFIED ASPHALT IMMEDIATELY PRIOR TO PAVEMENT CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE FOR ENSURING PROPER SURFACE DRAINAGE, PONDING OR PUDDLING OF WATER ON THE FINAL SURFACE WILL BE UNACCEPTABLE.
- REPLACE IN KIND ANY EXISTING TRAFFIC LOOPS AND/OR RELATED SENSOR EQUIPMENT THAT IS REMOVED OR DAMAGED DUE TO PAVEMENT MILLING ACTIVITY.

ASPHALT SUBBASE



CONCRETE SUBBASE



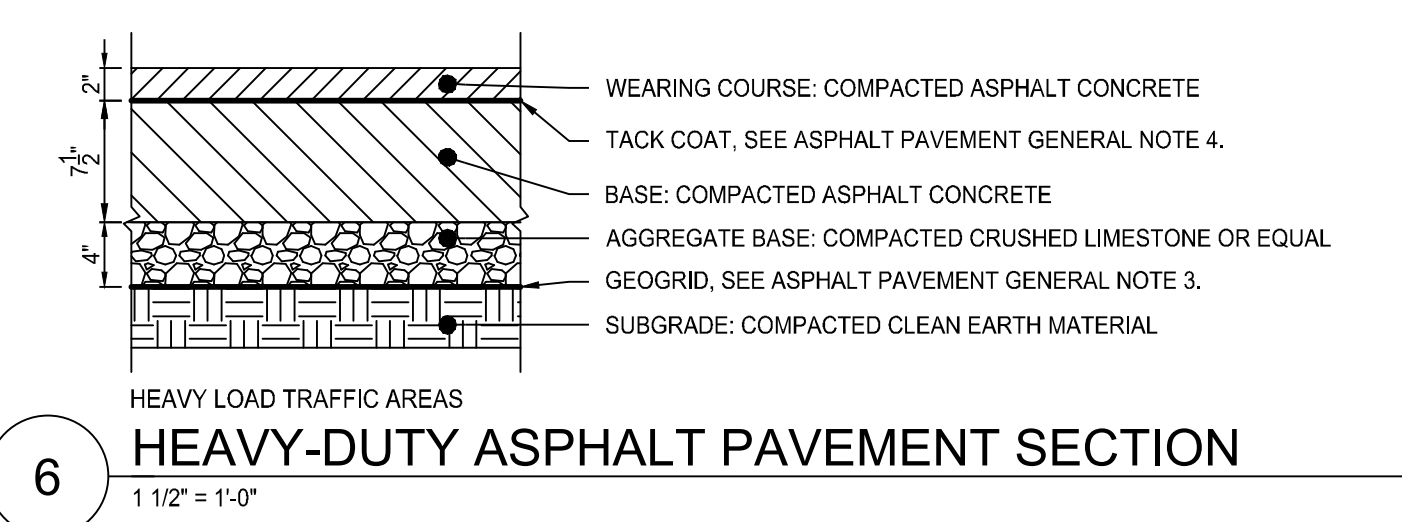
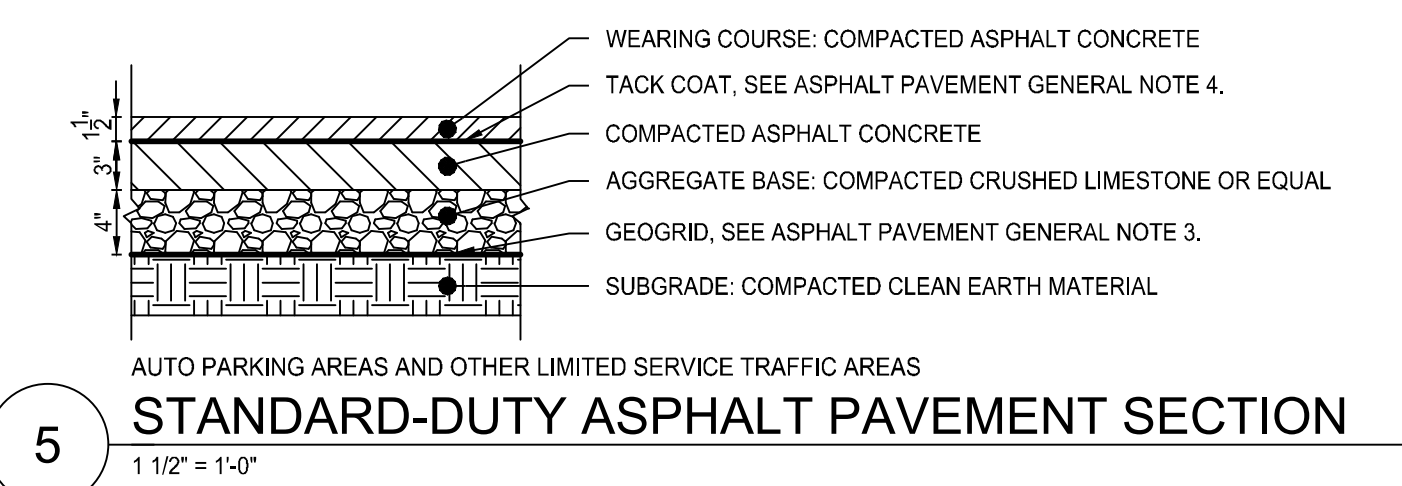
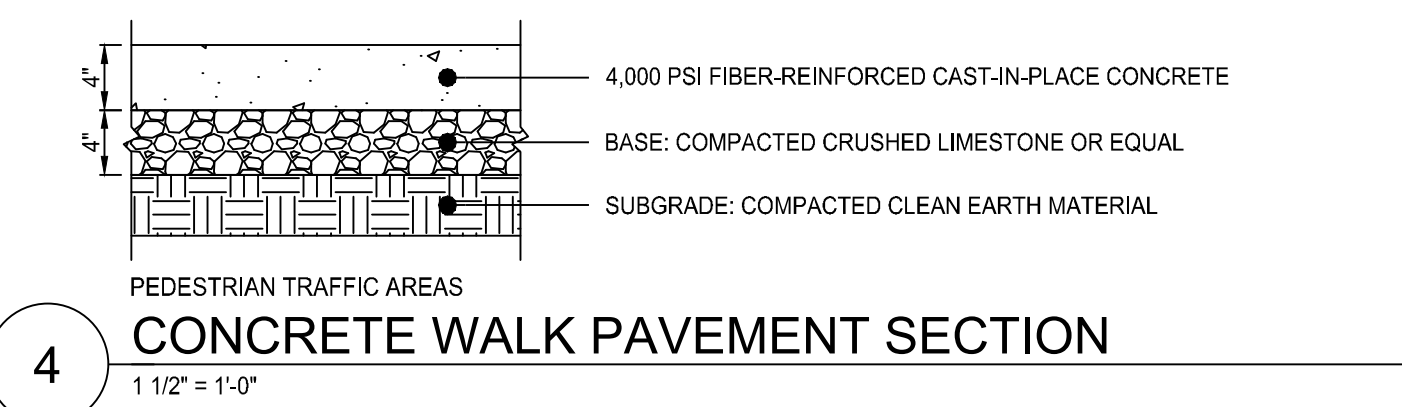
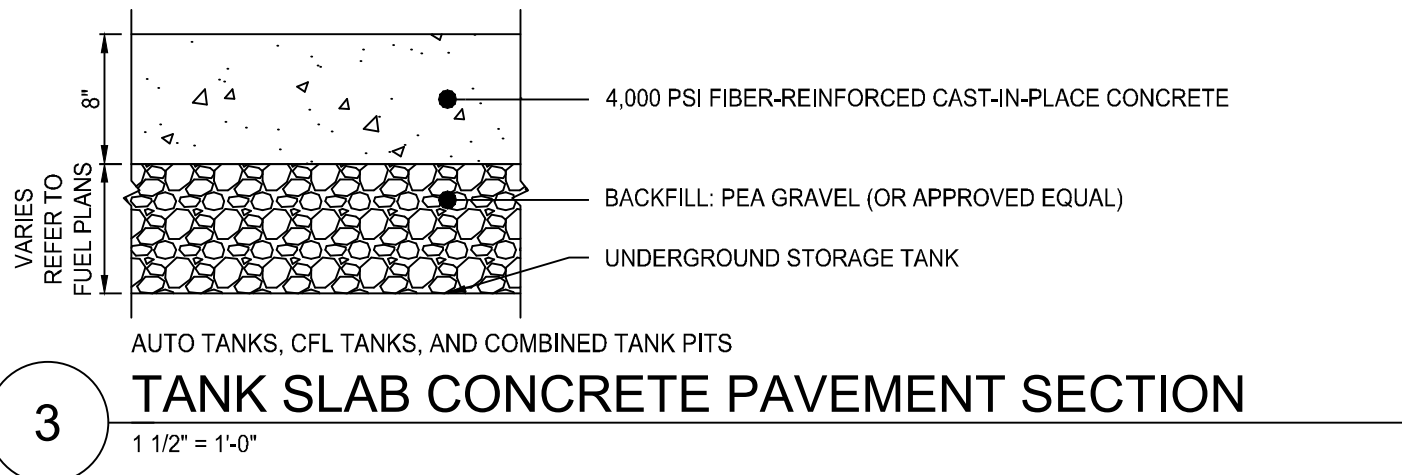
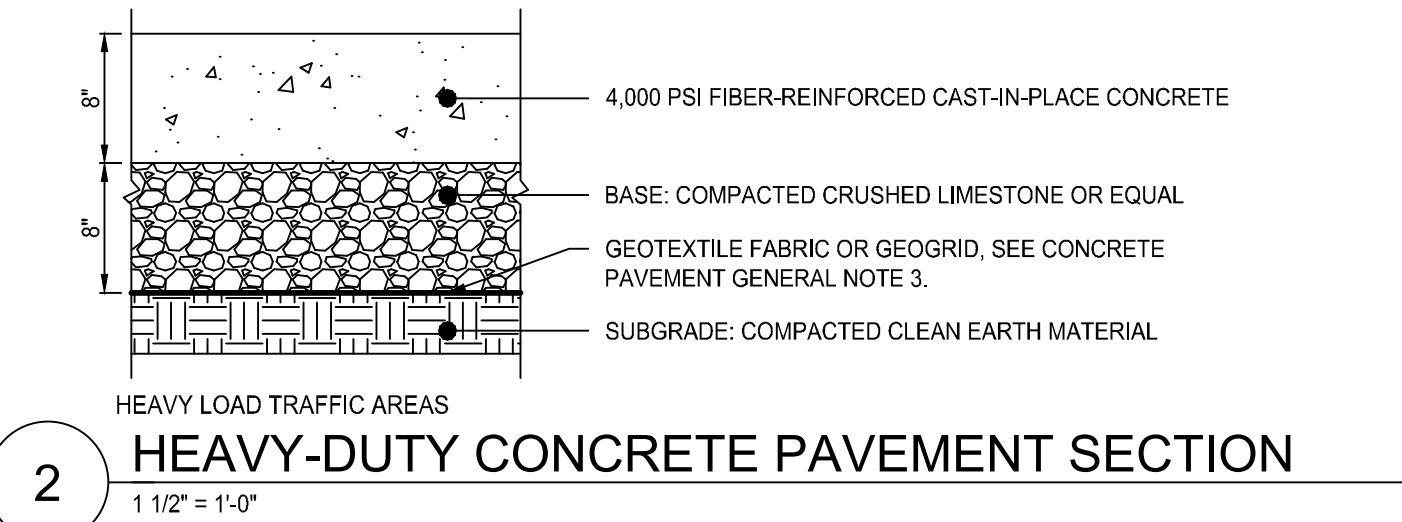
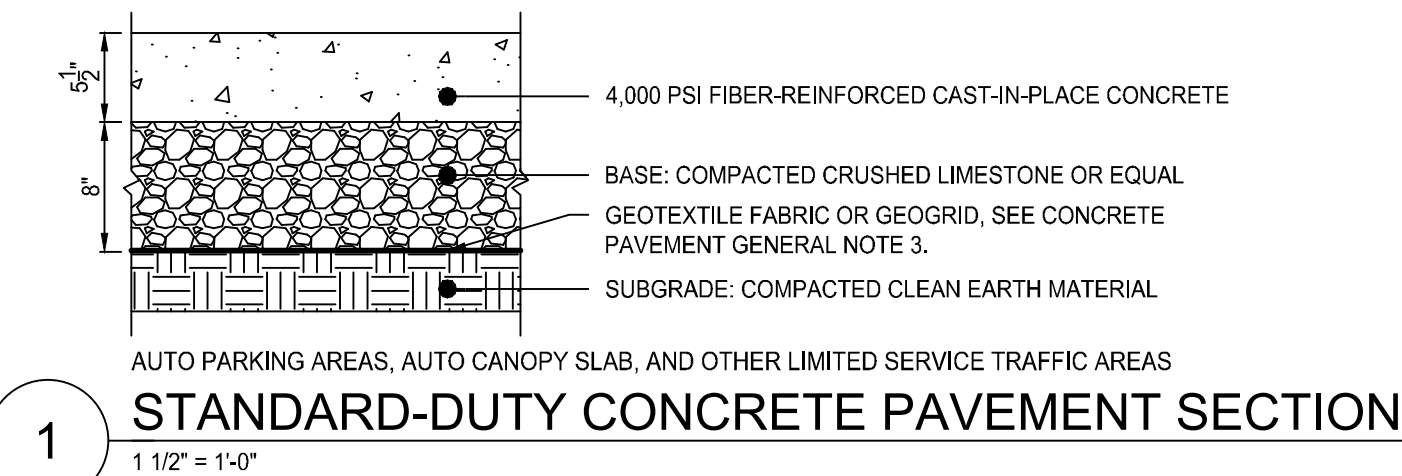
WHERE OVERLAY IS NOT SPECIFIED FOR ENTIRE EXISTING SURFACE, THE INTERFACE BETWEEN THE NEW OVERLAY AND THE OLD PAVEMENT SURFACE SHALL BE PER THE ABOVE DETAIL. FEATHERING OF THE ASPHALT TO MEET THE EXISTING PAVEMENT WILL NOT BE ACCEPTABLE.

EDGE DETAIL

8 ASPHALT OVERLAY PAVEMENT SECTIONS
NOT TO SCALE

TYPE OF JOINT	USE DESCRIPTION	DETAIL
A. CONTROL JOINT ("S" ON FUEL PROTOTYPES) 1. SAWN 2. PREMOLD STRIP 3. HAND FORMED AND SAWN AT CRITICAL JOINTS	USE SPECIFICATION ACI 308R-06 TO PLACE CONTROL JOINTS SO AS TO UNIFORMLY DIVIDE SLABS INTO NOMINAL 12' x 12' (STANDARD-DUTY) OR 16' x 16' (HEAVY-DUTY) SECTIONS. (SEAL CONTROL JOINTS ONLY IF SPECIFIED ON DRAWINGS OR BY OWNER'S REPRESENTATIVE.	
B. EXPANSION JOINT (ISOLATION JOINT)	PLACE AGAINST CONCRETE TANK SLAB, ABUTTING ROADWAY PAVEMENTS AND STRUCTURES (BUILDINGS, CANOPY COLUMNS, CATCH BASINS, ETC.)	
C. CONSTRUCTION JOINT ("CJ" ON FUEL PROTOTYPES)	CONSTRUCTION JOINTS MUST BE APPROVED BY OWNER'S REPRESENTATIVE. PLACE WHEN CONTINUOUS POUR OPERATIONS ARE SUSPENDED FOR MORE THAN 30 MINUTES.	

9 CONCRETE PAVEMENT JOINTING SECTIONS
NO SCALE



PAVING EXECUTION NOTES:

- LOCATE AND INSTALL CONSTRUCTION, ISOLATION, AND EXPANSION JOINTS AS INDICATED OR REQUIRED.
- PLACE CONCRETE IN A CONTINUOUS OPERATION WITH PLANNED JOINTS OR SECTIONS. DO NOT ADD WATER TO ADJUST SLUMP.
- FLOAT SURFACES TO TRUE PLANES WITHIN A TOLERANCE OF 1/4 INCH IN 10 FEET.
- TOOL EDGES AND JOINTS TO A RADIUS OF 1/2 INCH FOR SIDEWALKS.
- ALLOW CONCRETE PAVING TO CURE FOR A MINIMUM OF 28 DAYS AND DRY BEFORE STARTING PAVEMENT MARKING.
- APPLY TRAFFIC PAINT WITH MECHANICAL EQUIPMENT TO A MINIMUM WET FILM THICKNESS OF 15 MILS.
- PROTECT CONCRETE PAVING FROM DAMAGE. EXCLUDE TRAFFIC FROM PAVING FOR AT LEAST 14 DAYS.

CONCRETE PAVEMENT GENERAL NOTES:

- SEE FUEL PROTOTYPE FOR ADDITIONAL REQUIREMENTS FOR TANK SLABS.
- SEE FUEL PROTOTYPE FOR ADDITIONAL REQUIREMENTS FOR DISPENSER ISLAND SLABS.
- A GEOTEXTILE OR GEOGRID IS ONLY NEEDED WHEN THE GEOTECHNICAL REPORT AND/OR A GEOTECH EXPERT REQUIRES IT FOR THE SPECIFIC SITE'S SOIL CONDITIONS.
- UNDISTURBED SOIL OR COMPACTED BACK FILL NOT LESS THAN 95% OF MODIFIED PROCTOR DENSITY (ASHTO-T-180).
- REFER TO CIVIL DESIGN GUIDELINES (CDG) FOR PAVEMENT LOCATION GUIDANCE.
- CONTRACTOR REFER TO THE GEOTECH REPORT FOR PAVEMENT AND FOUNDATION DESIGN AND CONSTRUCTION RECOMMENDATIONS IF MORE STRINGENT THAN PROTOTYPE DETAILS.
- COMPACTION IS NOT REQUIRED OVER THE TANK PIT(S).

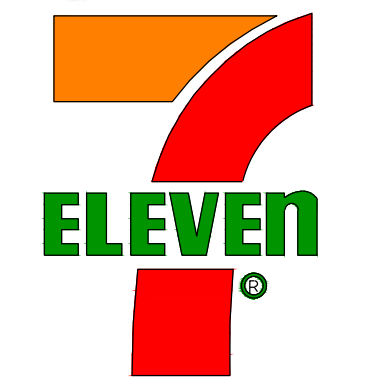
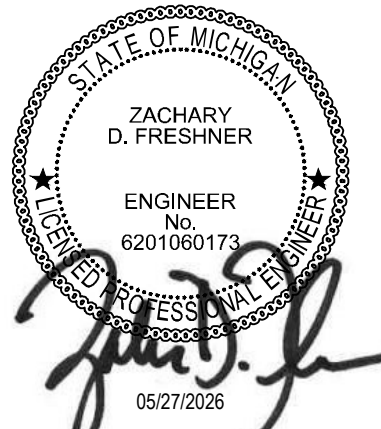
ASPHALT PAVEMENT GENERAL NOTES:

- ALL WORK SHALL BE IN CONFORMANCE WITH OWNER'S SPECIFICATIONS FOR ASPHALTIC CONCRETE PAVING.
- GEOGRID IS ONLY NEEDED WHEN THE GEOTECHNICAL REPORT AND/OR A GEOTECH EXPERT REQUIRES IT FOR THE SPECIFIC SITE'S SOIL CONDITION.
- FOR SUBSURFACE DRAINAGE OR STABILITY ISSUES DURING CONSTRUCTION (UNDER DIRECTION BY GEOTECH EXPERT):
 - SUBSURFACE DRAINAGE ISSUE - REFER TO GUIDELINES FOR DEWATERING ISSUES TO DERIVE ACCEPTABLE OPTIONS.
 - SUBSURFACE STABILITY ISSUE - INSTALL GEOGRID PER GEOTECH EXPERT RECOMMENDATION.
- THE PAVEMENT SHALL BE THOROUGHLY CLEANED AND A TACK COAT OF ASPHALT SHALL BE APPLIED BEFORE THE OVERLAY IS PLACED.
- REFER TO CIVIL DESIGN GUIDELINES (CDG) FOR PAVEMENT LOCATION GUIDANCE.

CONTRACTOR MUST REFER TO THE GEOTECH REPORT FOR PAVEMENT AND FOUNDATION DESIGN AND CONSTRUCTION RECOMMENDATIONS



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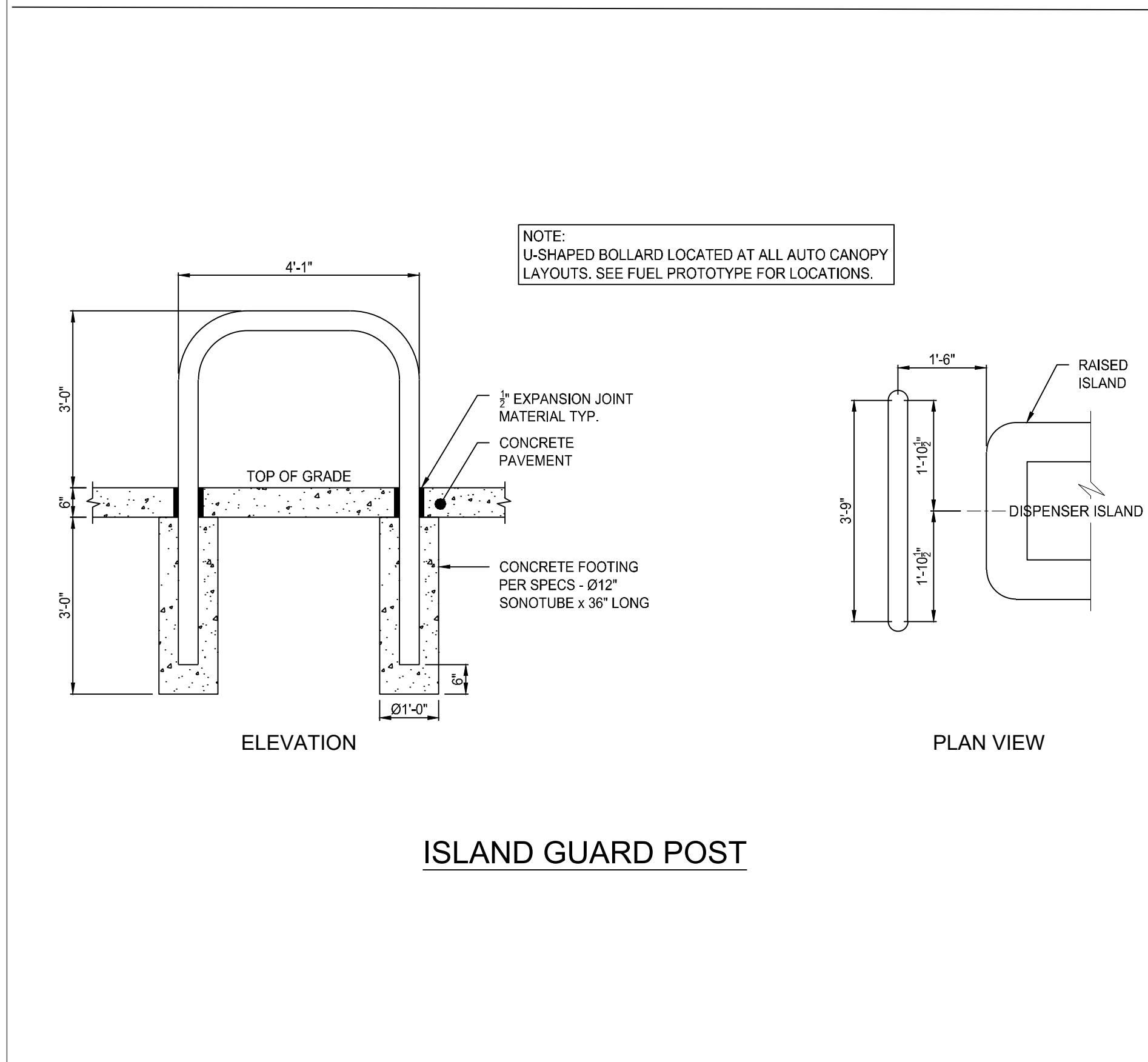
Revisions / Submissions		
ID	Description	Date
1	CITY COMMENTS	03/06/2026

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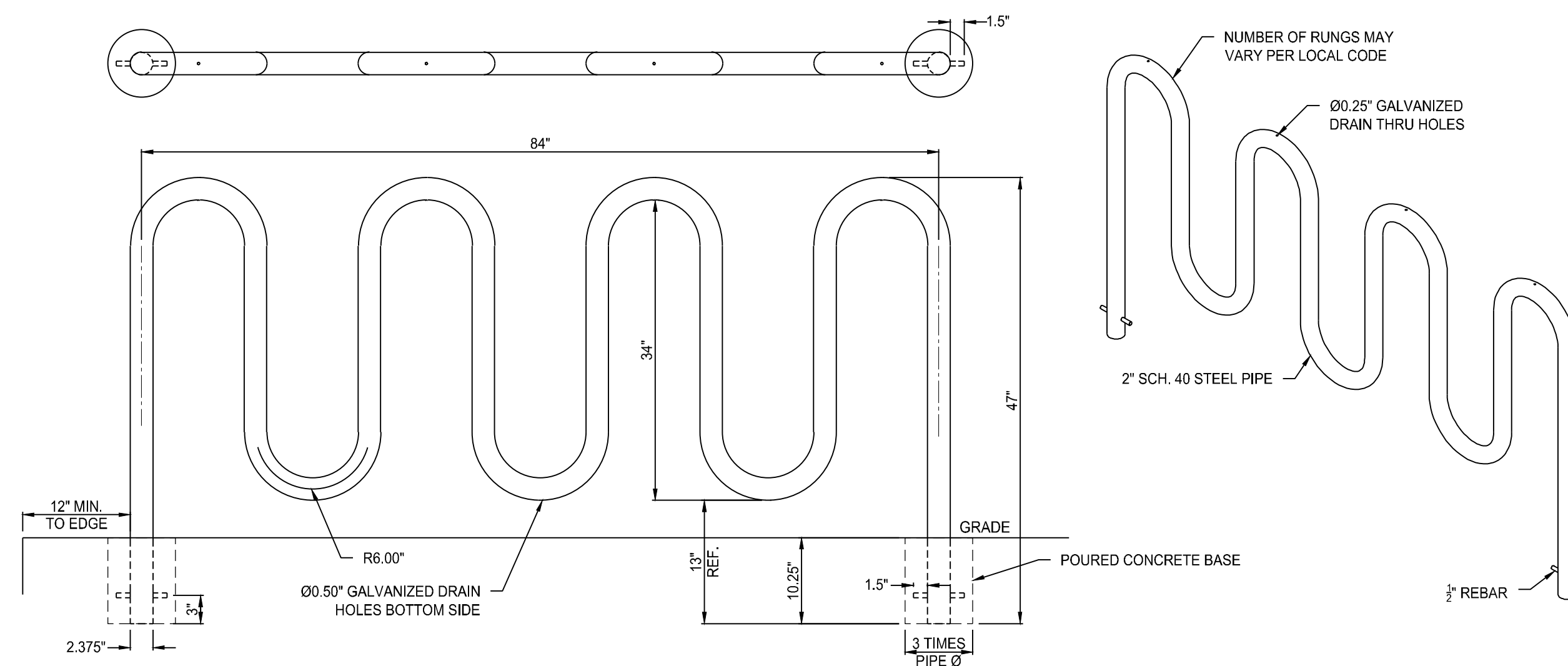
Drawing Title:
DETAILS

CPC-1

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TYPICAL BIKE RACK DETAIL



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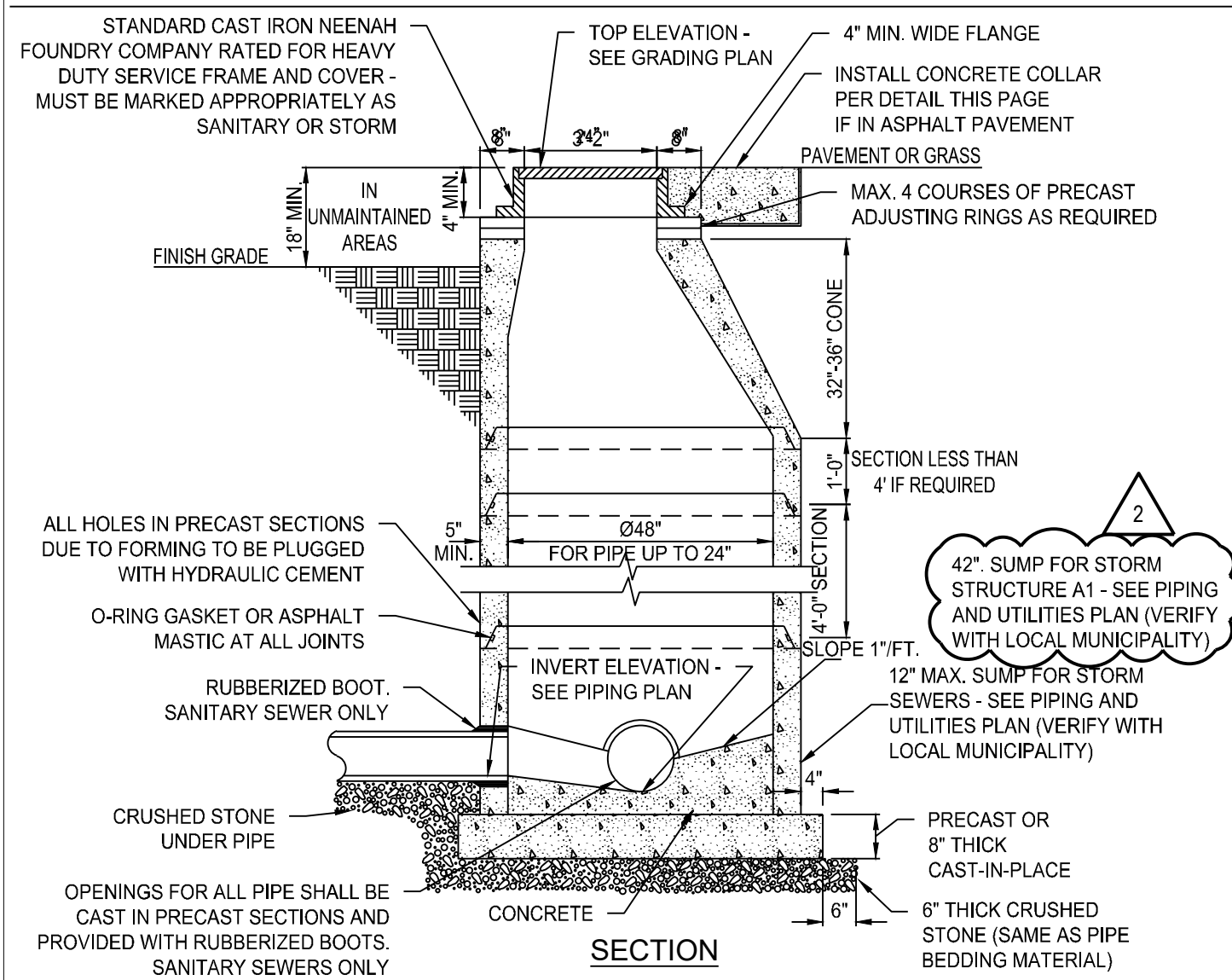
Revisions / Submissions		
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1	CITY COMMENTS	03/06/2026

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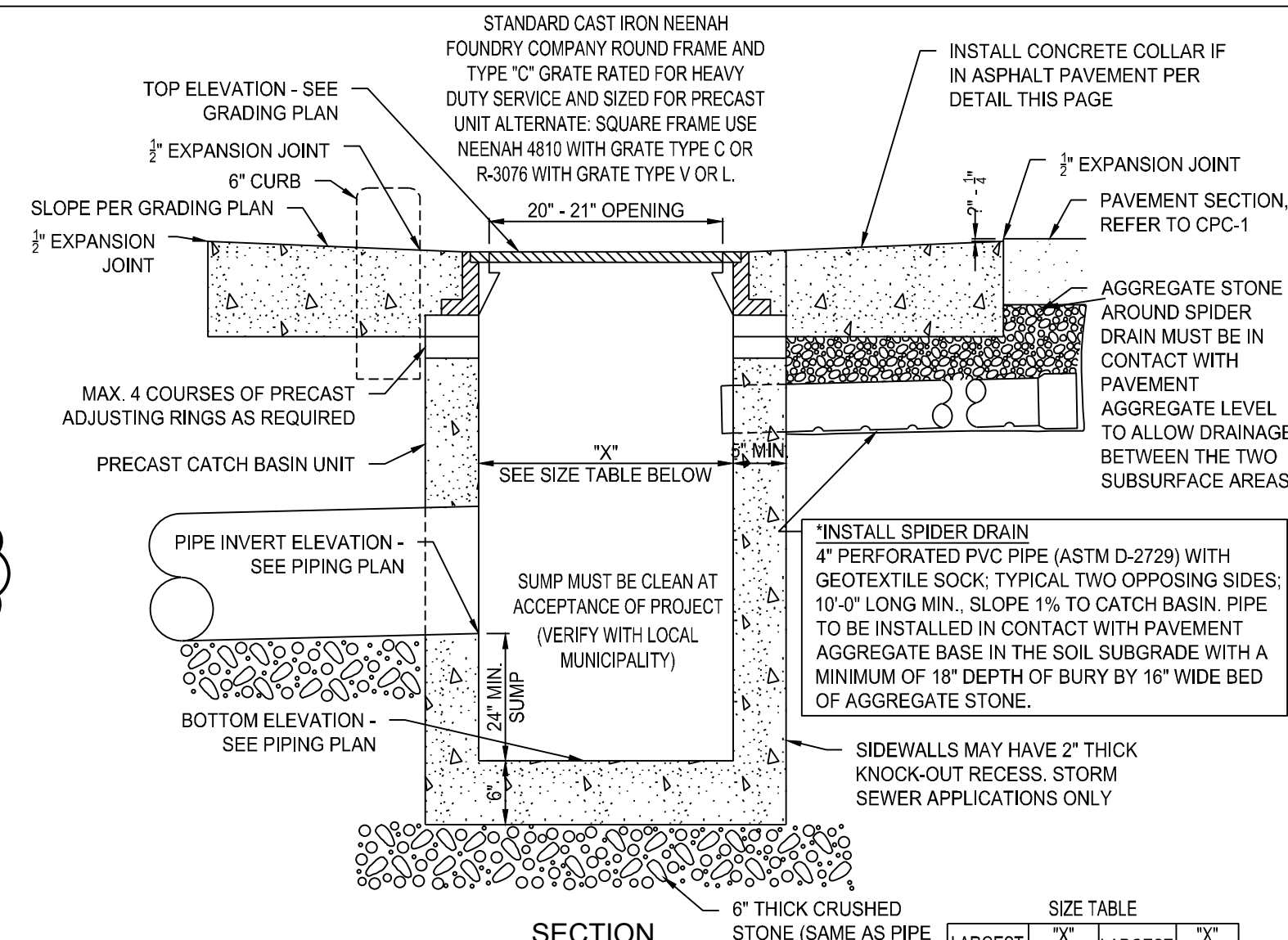
CYE-A

Drainage & Utility Details & Specifications



- MANHOLES SHOWN ON THE PLOT OR PIPING PLAN SHALL BE PRECAST CONCRETE AND CONSTRUCTED OF MATERIALS AND IN A MANNER MEETING THE SPECIFICATIONS OF ASTM C-478 AND THE PUBLIC AUTHORITY HAVING JURISDICTION.
 - SEE GRADING AND/OR PIPING PLAN FOR TOP AND INVERT ELEVATIONS, SIZE AND ARRANGEMENT OF INLET/OUTLET PIPING.
 - ADDITIONAL MASONRY BRICK OR BLOCK WORK IS NOT PERMITTED TO MEET SURFACE ELEVATION.
 - OBTAIN APPROVAL OF MANUFACTURER'S STRUCTURAL ENGINEER FOR DEPTHS EXCEEDING 10'.
- FOR SANITARY SEWERS ONLY**
- THE BOTTOM OF THE MANHOLE SHALL BE CONTOURED WITH CONCRETE TO CHANNEL THE FLOW THROUGH THE MANHOLE.
 - WHEN SPECIFIED ON THE PLANS, AN EXTERIOR "DROP" MANHOLE SHALL BE CONSTRUCTED PER LOCAL SPECIFICATIONS.

A STANDARD MANHOLE
NOT TO SCALE



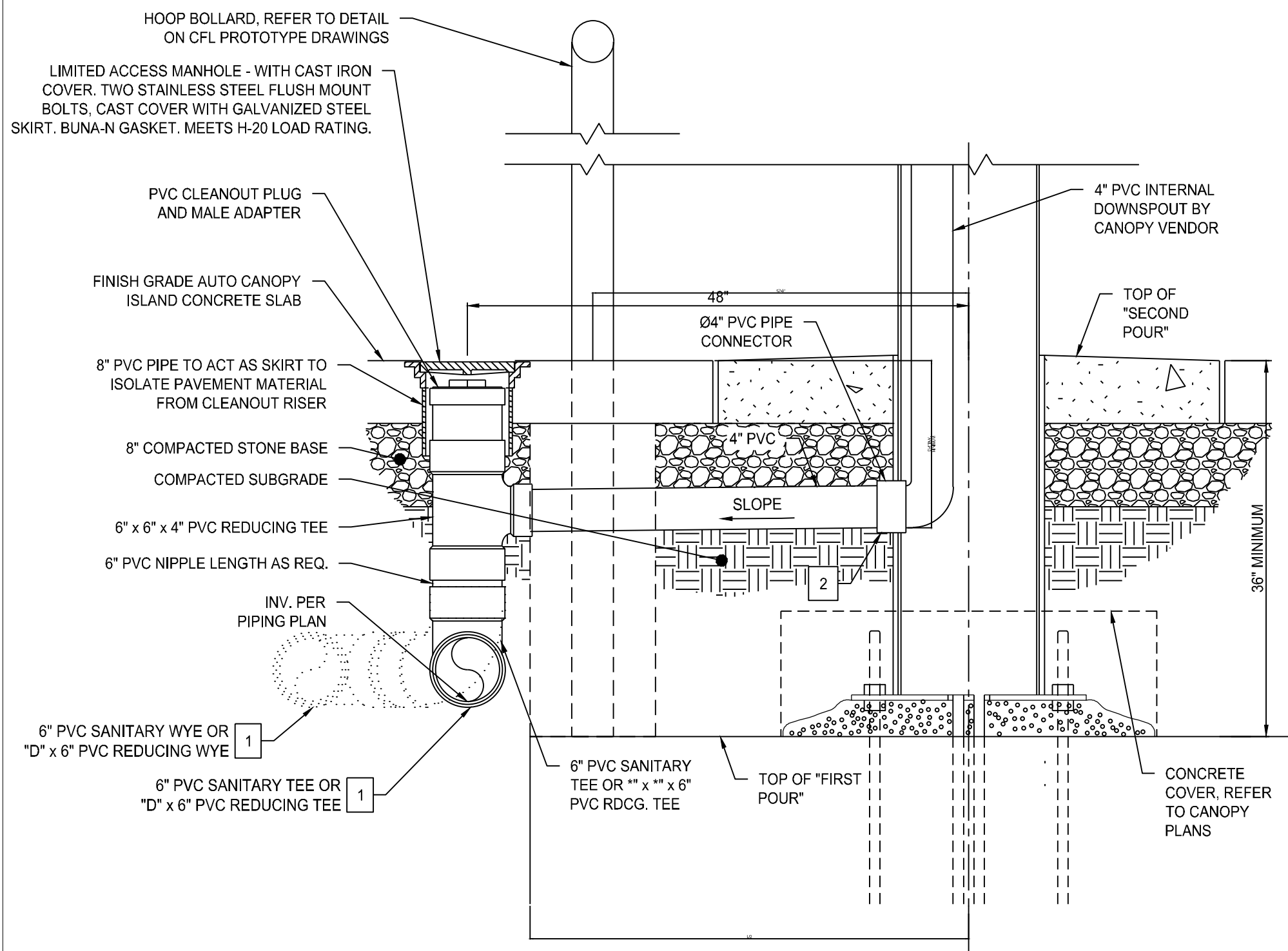
SIZE TABLE

LARGEST PIPE DIA.	7" SQUARE C.B.	LARGEST PIPE DIA.	7" ROUND C.B.
21"	24"	15"	30"
33"	36"	24"	42"
42"	48"	30"	48"
54"	60"	36"	60"
60"	72"	48"	72"

NOTE: TRAFFIC RATED REINFORCED PRE-CAST CONCRETE TOP TO BE USED WITH LARGER CATCH BASINS. VERIFY STRUCTURE SIZE IS ADEQUATE FOR MULTIPLE PIPES AND PIPE ANGLES.

- THE PRECAST CATCH BASIN UNIT SHALL CONFORM TO THE APPLICABLE STANDARD STATE D.O.T. SPECIFICATIONS AND ASTM C913. THE UNIT SHALL BE PROPERLY REINFORCED TO PREVENT DAMAGE DURING TRANSPORT AND INSTALLATION.
- SEE GRADING AND/OR PIPING PLAN FOR TOP, INVERT, AND BOTTOM ELEVATIONS, SIZE, AND ARRANGEMENT OF INLET/OUTLET PIPING.
- MORTAR ALL INLET, OUTLET PIPE OPENINGS WITH HYDRAULIC CEMENT GROUT.
- ADDITIONAL MASONRY BRICK OR BLOCK WORK IS NOT PERMITTED TO MEET SURFACE ELEVATION.

2 STANDARD-DUTY CATCH BASIN
NOT TO SCALE



- GENERAL NOTES**
- CANOPY CLEANOUT LOCATIONS PREFERENCES
 - AUTO STACKING GATE - AWAY FROM PRODUCT PIPING OPPOSITE THE BUILDING SIDE COLUMNS
 - AUTO STACKED - AWAY FROM PRODUCT PIPING OPPOSITE BOTH ROWS OF COLUMNS
 - REFER TO FUEL PROTOTYPE DRAWINGS FOR AUTO DISPENSER ISLAND (NOT SHOWN HEREON) DETAILS.
 - REFER TO CIVIL PROTOTYPE DRAWINGS SHEET CPC-1 FOR AUTO CANOPY PAVEMENT DETAIL.

- SECTION "A-A" KEY NOTES**
- "D" = SIZE OF ROOF DRAIN COLLECTOR PIPE. REFER TO PIPING PLAN TO VERIFY SIZE OF COLLECTOR PIPE.
 - REFER TO DIVISION OF WORK FOR G.C. CONNECTION TO ROOF DRAIN AT COLUMN.

1 SECTION "A-A" - INTERNAL DOWNSPOUT (AUTO CANOPY COLUMNS)
1"=1'-0"

D GEOTEXTILE FABRIC SPECIFICATIONS

8 OZ. NONWOVEN NEEDLE PUNCHED FABRIC; AMOCO 4553, PHILLIPS SUPAC 8NP, OR EQUAL

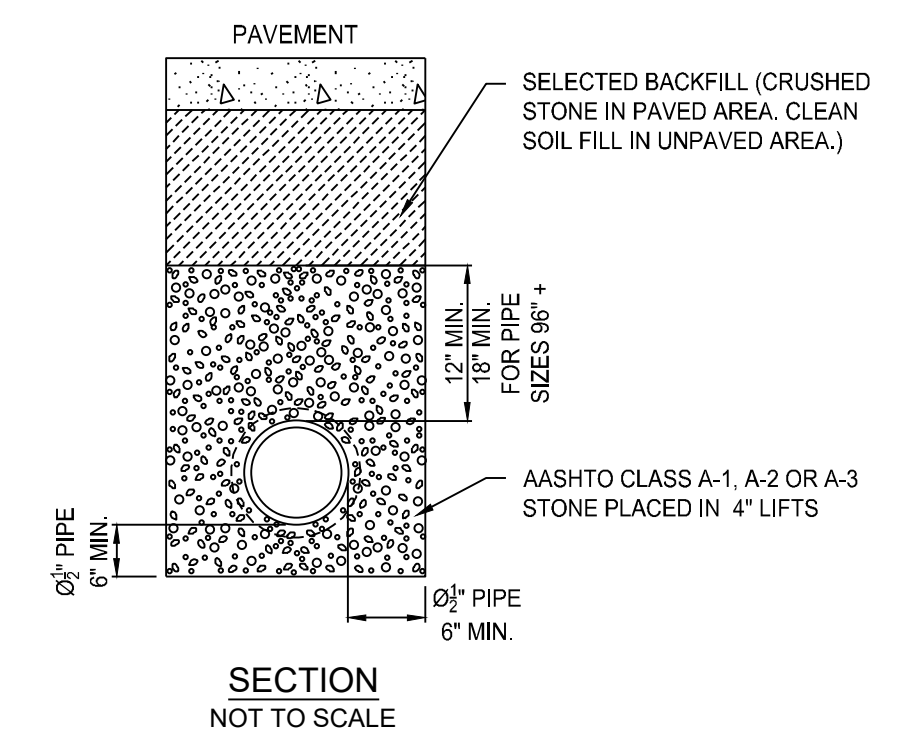
GENERAL NOTES:

- ALL STORM AND SANITARY PIPING SHALL BE THE SIZE AND TYPE SHOWN ON THE GRADING OR PIPING PLAN, AND SHALL CONFORM TO THE ASTM AND AASHTO STANDARD SPECIFICATIONS LISTED HERE, UNLESS OTHERWISE REQUIRED BY GOVERNING AUTHORITIES.
- CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF 7-ELEVEN'S SPECIFICATIONS.
- CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES PRIOR TO STARTING ANY BELOW GRADE WORK TO LOCATE UNDERGROUND FACILITIES.
- ALL SANITARY SEWERS SHALL HAVE "PREMIUM" SEALED JOINTS. STORM SEWERS WITHIN 20' OF HYDROCARBON PRODUCT PIPING OR UNDERGROUND TANKS SHALL HAVE "PREMIUM SEALED JOINTS."
- THE PIPE INVERT SHALL BE STRAIGHT LINE GRADED BETWEEN ELEVATIONS SHOWN ON THE PLAN.
- PIPE SHALL BE LAID FROM THE LOWER ELEVATION TO THE HIGHER ELEVATION.
- CONTRACTOR SHALL VERIFY EXISTING ELEVATIONS PRIOR TO BEGINNING WORK. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE.
- PIPING TO BE MIN. 12" BELOW TOP OF RIGID PAVEMENT, BOTTOM OF FLEXIBLE PAVEMENT, OR FINISHED GRADE IN NON-TRAFFIC AREAS. APPLICABLE AASHTO OR AISI GUIDELINES SHALL OVERRIDE AND GOVERN MINIMUM COVER HEIGHTS WHEN GREATER THAN STATED ABOVE.
- SEE DRAWING # SCB-1 FOR CANOPY DOWNSPOUT DRAIN DETAILS.

MINIMUM DEPTH OF BURY:

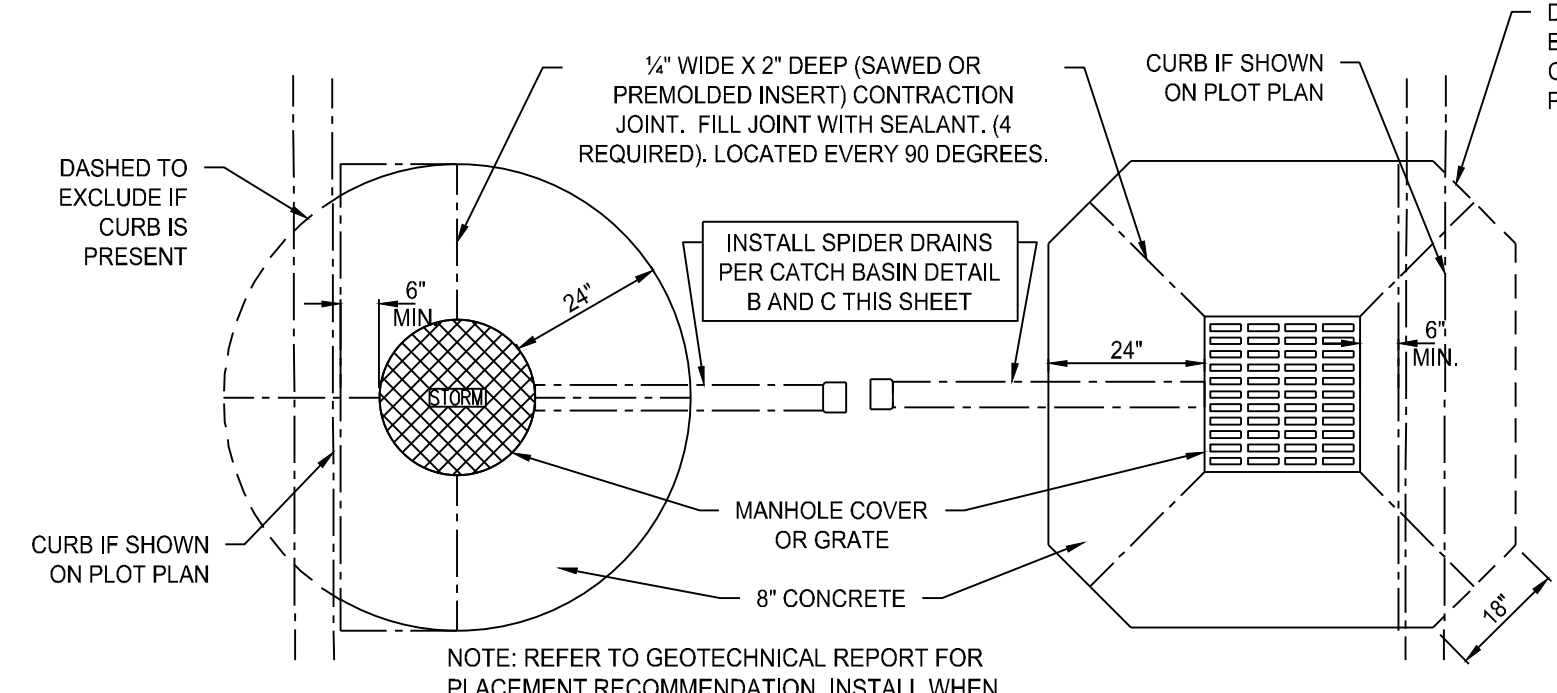
- (SEE NOTE #8)
- PVC ----- 18"
 - RCP ----- 12"
 - HDPE ----- 18"

NOTE: REFER TO GEOTECHNICAL REPORT FOR PLACEMENT RECOMMENDATION. INSTALL WHEN MANHOLE OR CATCH BASIN CASTING OCCURS AT LOW POINTS AND CLAYEY SUBGRADES. SEE DETAIL B AND C THIS SHEET.



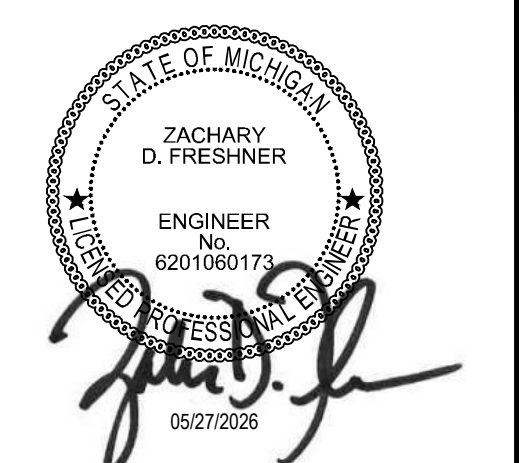
H PIPE BEDDING
NOT TO SCALE

TYPE OF PIPE	"N" VALUES	SIZES PERMITTED	SERVICE AND USE	PIPE SPECIFICATION	INSTALLATION SPECIFICATION	JOINT SPECIFICATION	PREMIUM JOINTS
POLY-VINYL CHLORIDE (PVC)	0.01	6"	SANITARY SEWER	ASTM D-3034 SDR 35	ASTM D-2321	ASTM D-3212	ASTM F-477
		8" - 12"	STORM DRAINAGE	STANDARD SPECIFICATION FOR TYPE PSM PVC SEWER PIPE AND FITTINGS	STANDARD PRACTICE FOR INSTALLATION OF FLEXIBLE THERMOPLASTIC SEWER PIPE	STANDARD SPECIFICATION FOR JOINTS FOR DRAIN AND SEWER PLASTIC PIPES USING FLEXIBLE ELASTOMERIC SEALS	ELASTOMERIC SEALS FOR JOINING PLASTIC PIPE (OIL RESISTANT) HIGH NITRILE (NBR), EPICHLOROHYDRIN (ECO), NEOPRENE (CR), POLYSULFIDE (T), OR FLUORO ELASTOMER (FPM)
REINFORCED CONCRETE (RCP)	0.013	Ø12" AND LARGER	STORM DRAINAGE	ASTM C-76, ASTM C1479 CLASS 3, WALL B-TONGUE AND GROOVE	PIPE BEDDING PER DETAIL	BITUMINOUS MASTIC	ASTM C-443
SMOOTH LINED CORRUGATED HDPE N-12 BY ADVANCED DRAINAGE SYSTEMS (800) 733-8554 SURE-LOK BY HANCOR (800) 537-8520	0.012	8" AND LARGER	STORM DRAINAGE	AASHTO M294-S	ASTM D-2321 PIPE BEDDING PER DETAIL	STANDARD COUPLERS (PRO LINK) USE GASKET IN FINE SOILS	PVC DOUBLE BELL COUPLER WITH GASKET (PRO LINK 10.8)
		12" AND LARGER	STORM DRAINAGE	AASHTO M294-S	ASTM D-2321 PIPE BEDDING PER DETAIL	BELL & SPIGOT WITH GASKET (SURE-LOK)	BELL & SPIGOT WITH POLYISOPRENE GASKET (SURE-LOK 10.8)
DUCTILE IRON (DI)	0.012	4" - 12"	SPECIAL	ASTM A-746 CLASS 50 STANDARD SPECIFICATION FOR DUCTILE IRON GRAVITY SEWER PIPE	PIPE BEDDING PER DETAIL	RUBBER GASKET COMPRESSION TYPE JOINT	GASKET TO BE OIL RESISTANT NITRILE-BUTADIENE (NBR)
POLYETHYLENE (PE)	0.010	4" - 6"	UNDERDRAINS AND SEPTIC DISPOSAL FIELDS ONLY	ASTM F-405 STANDARD SPECIFICATION FOR CORRUGATED POLYETHYLENE TUBING AND FITTINGS	SEE UNDERDRAIN DETAIL	STANDARD COUPLINGS	NA
CORRUGATED METAL PIPE (CMP)	0.022	Ø12" AND LARGER	STORM DRAINAGE	ASTM A-780 STANDARD SPECIFICATION FOR CORRUGATED METAL PIPE, METALLIC-COATED FOR SEWERS AND DRAINS	ASTM A-807 STANDARD SPECIFICATION FOR INSTALLING CORRUGATED METAL STRUCTURAL PLATE PIPE FOR SEWERS	STANDARD COUPLINGS	NA
		12" - 60"	STORM DRAINAGE	AASHTO M330 ASTM F2881	ASTM D2321	WATER TIGHT ASTM D-3212	EXTENDED REINFORCED INTEGRAL BELL AND GASKETED SPIGOT



F CONCRETE COLLAR - ROUND GRATE & FRAME
NOT TO SCALE

CONCRETE COLLAR - SQUARE GRATE & FRAME
NOT TO SCALE



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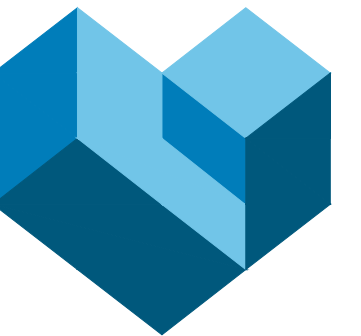
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1	CITY COMMENTS	03/06/2026
2	AHJ COMMENTS	05/27/2026

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Drawing Title:
DETAILS

CUD-1

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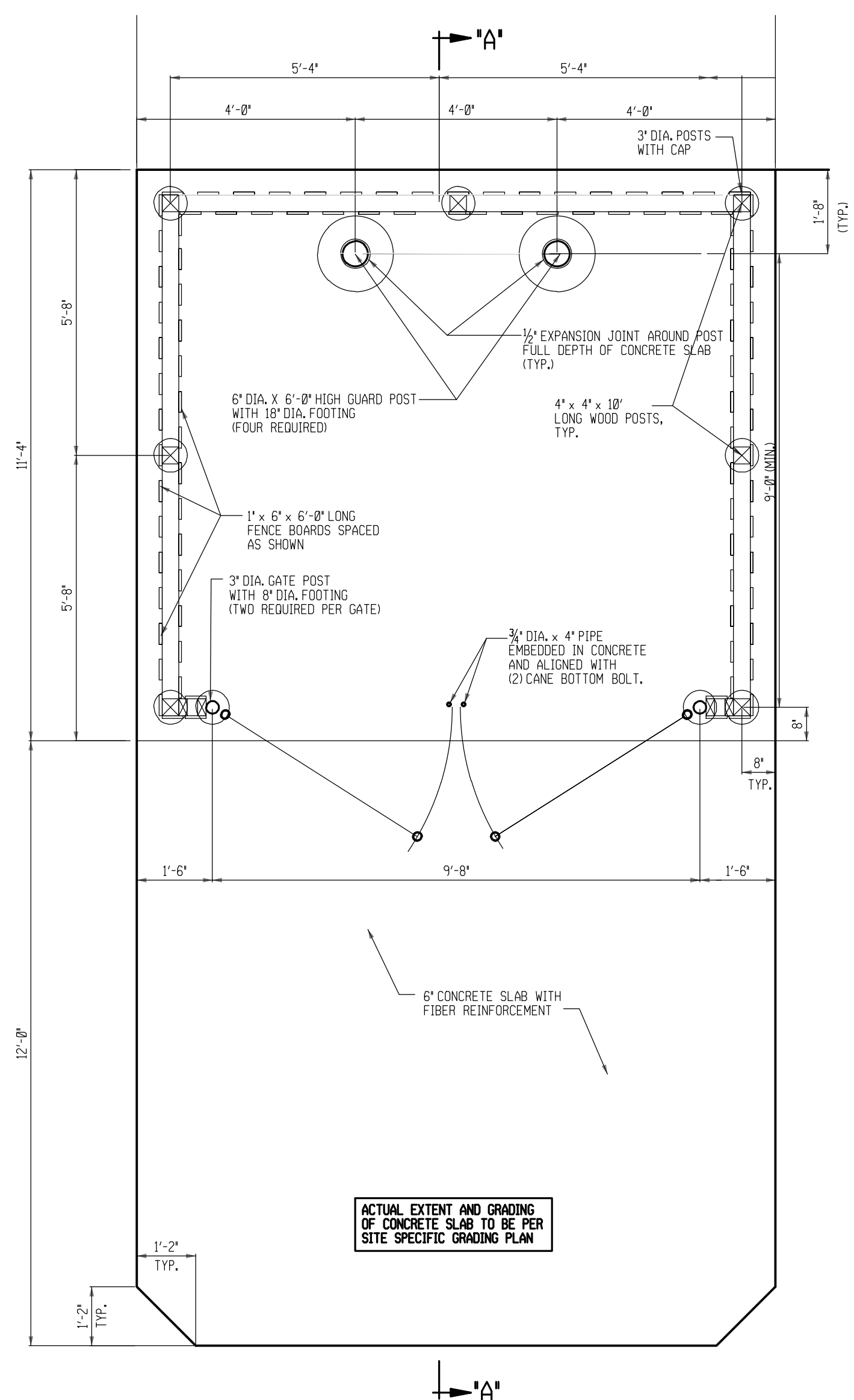
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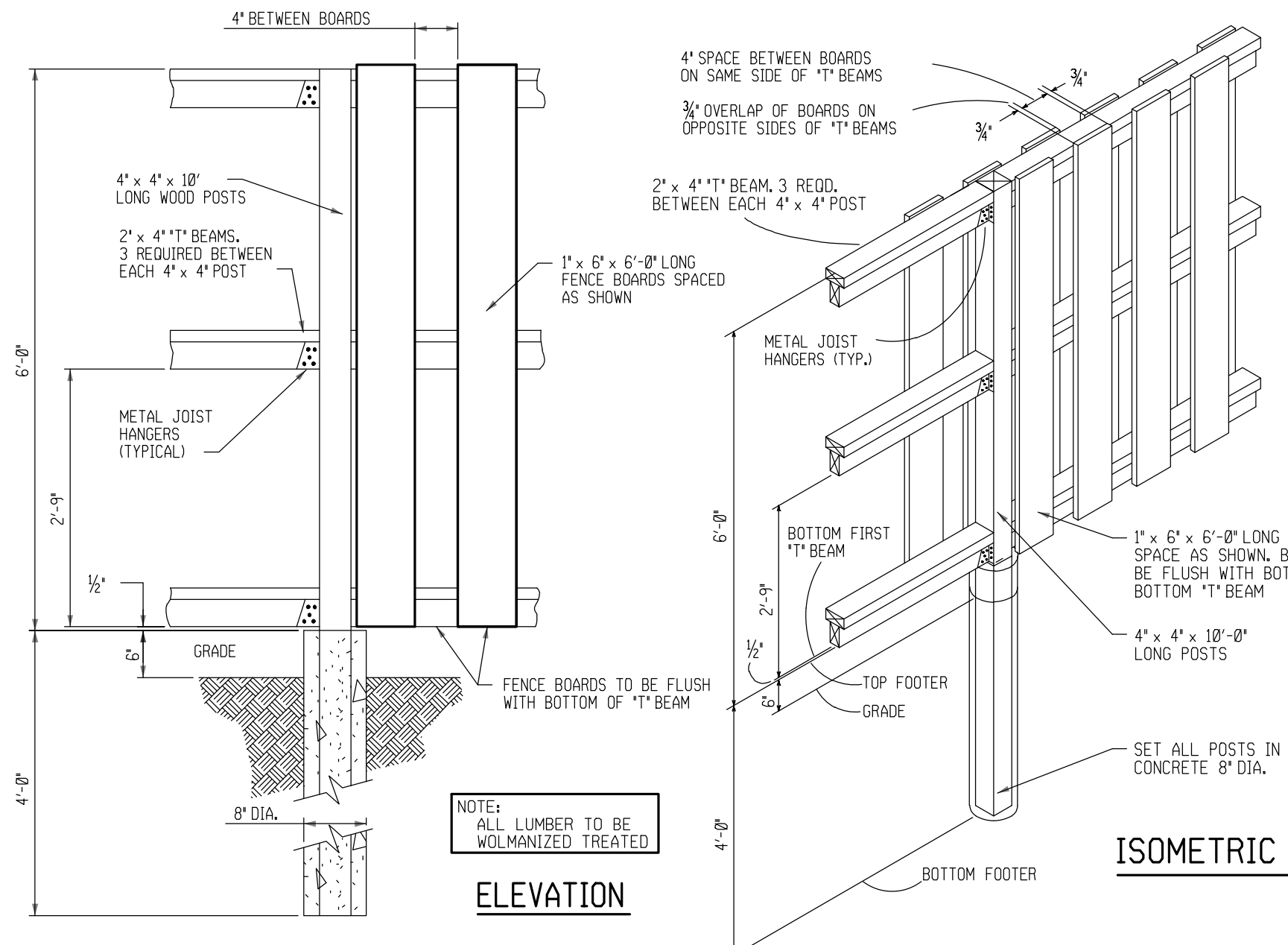
FOUNDATION PLAN



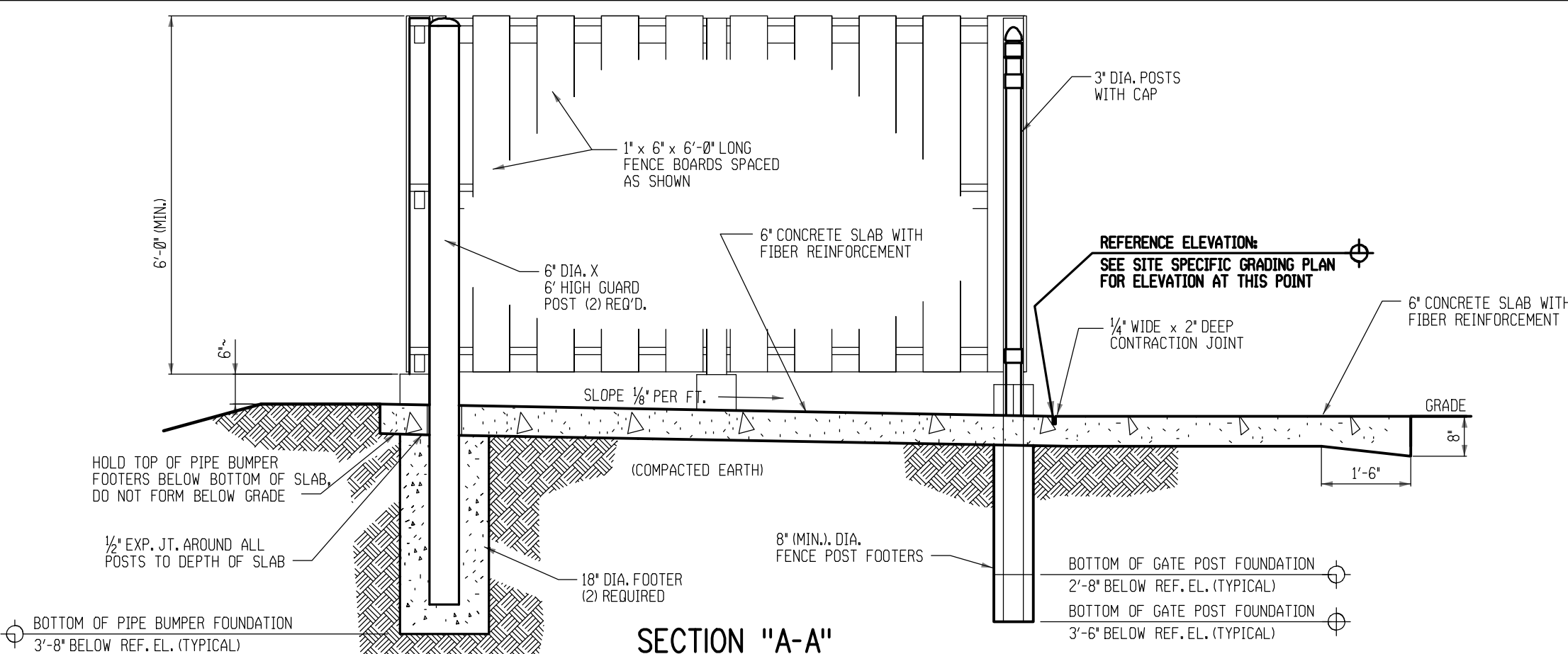
2" x 4" x 11" BEAMS,
3 REQUIRED BETWEEN
EACH 4" x 4" POST

ACTUAL EXTENT AND GRADING
OF CONCRETE SLAB TO BE PER
SITE SPECIFIC GRADING PLAN

DETAILS AND NOTES

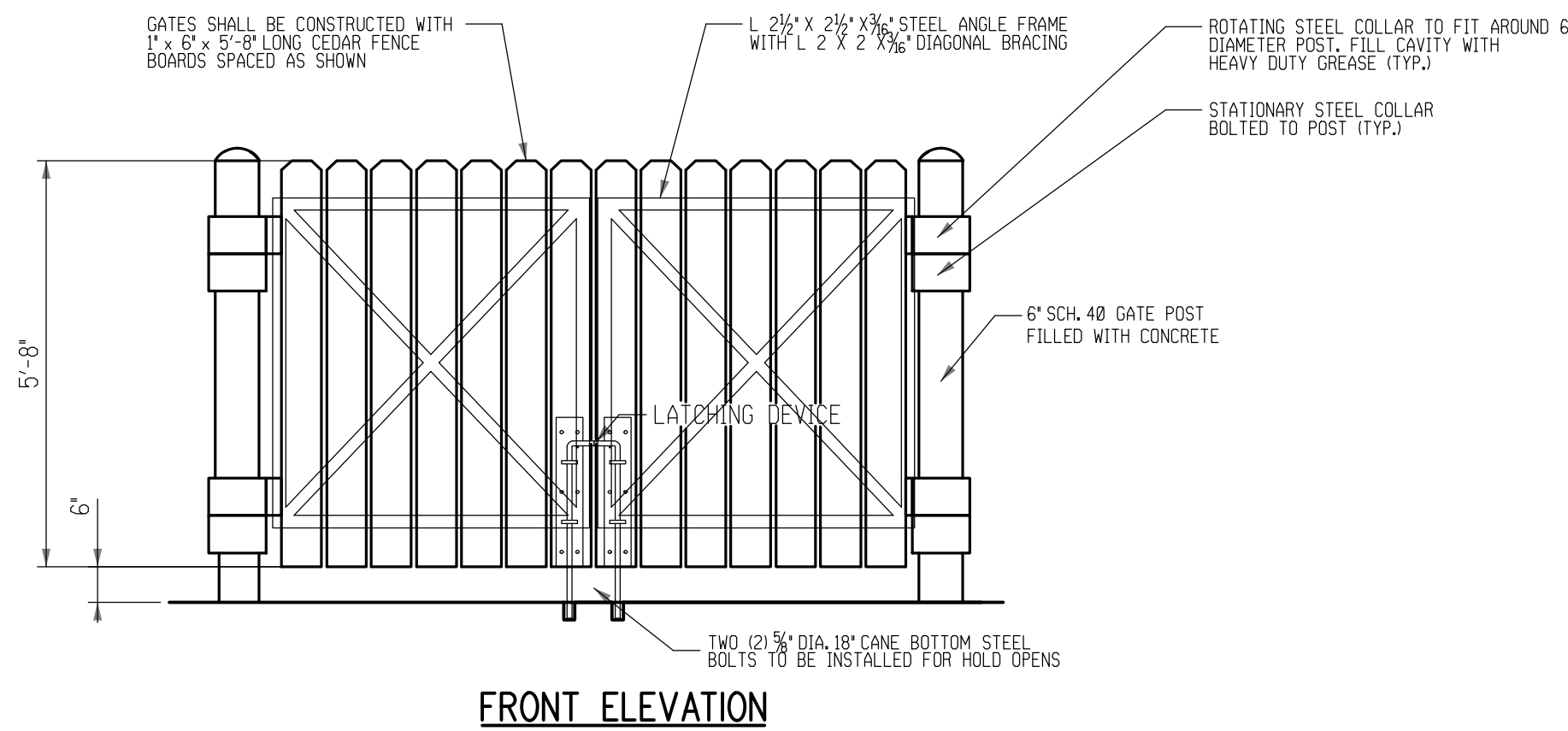


BOARD-ON-BOARD CONSTRUCTION DETAIL
SCALE: NONE

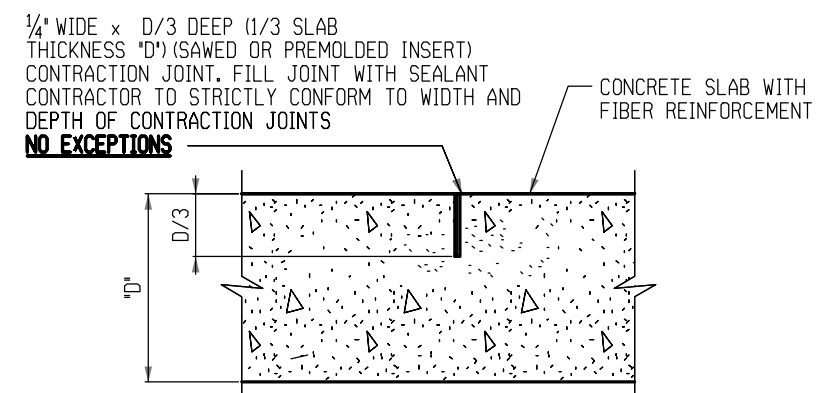


SECTION "A-A"

DETAILS



FRONT ELEVATION



TYPICAL CONTRACTION JOINT DETAIL
SCALE: NONE

GENERAL NOTES

1. SLABS SHALL HAVE THE FOLLOWING SPECIFICATION: FIBERS SHALL BE 100% POLYPROPYLENE MULTIFILAMENT FIBERS MANUFACTURED FOR USE AS CONCRETE REINFORCEMENT. THEY SHALL BE 1/2" TO 3/4" IN LENGTH WITH AN ADDITION RATE OF 3/4 LB/CU YD OF CONCRETE. THE USE OF THE FIBERS SHALL BE IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS OR RECOMMENDATIONS.
2. REFER TO "CONVENIENCE STORE SPECIFICATIONS" FOR CHAIN LINK AND WOOD FENCE REQUIREMENTS.
3. CHAIN LINK FENCING WITH BROWN PLASTIC INSERTS AND GUARD POSTS TO BE INSTALLED ONLY IF SPECIFIED ON PLOT PLAN OR OTHERWISE INSTRUCTED BY OWNER'S REPRESENTATIVE.
4. REFER TO GRADING PLAN FOR PAVEMENT ELEVATIONS.

Revisions / Submissions		
ID	Description	Date
1	CITY COMMENTS	03/06/2026

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Issue:	CONSTRUCTION PLANS

Drawing Title:
**CONSTRUCTION
DETAILS**

DET-1

MAINTAINING TRAFFIC

THE CONTRACTOR SHALL PROVIDE, ERECT, AND MAINTAIN SIGNS (IN PROPER POSITION, CLEAN AND LEGIBLE, AND IN GOOD WORKING CONDITION) AND PROVIDE ALL LIGHTS, SIGNS, CONES, DRUMS, AND ANY OTHER TRAFFIC CONTROL DEVICES NECESSARY FOR THE MAINTENANCE OF TRAFFIC ACCORDING TO THESE PLAN NOTES AND DETAILS.

NO CHANGES IN TRAFFIC CONTROL PATTERNS SHALL BE MADE BETWEEN THE HOURS OF 6:00 AM TO 9:00 AM AND 4:00 PM TO 7:00 PM, MONDAY THROUGH FRIDAY.

NO WORK SHALL BE PERFORMED ON OAKLAND DRIVE AND THE SAME NUMBER OF LANES AS EXISTED BEFORE CONSTRUCTION SHALL BE OPEN TO TRAFFIC DURING THE FOLLOWING DESIGNATED HOLIDAYS AND SPECIAL EVENTS:

HOLIDAYS

- NEW YEAR'S (OBSERVED)
- LABOR DAY
- GENERAL/REGULAR ELECTION DAY (NOV)
- THANKSGIVING
- MEMORIAL DAY
- CHRISTMAS (OBSERVED)
- FOURTH OF JULY (OBSERVED)

THE PERIOD OF TIME THAT THE LANES ARE TO BE OPEN DEPENDS ON THE DAY OF THE WEEK ON WHICH THE HOLIDAY OR SPECIAL EVENT FALLS. THE FOLLOWING SCHEDULE SHALL BE USED TO DETERMINE THIS PERIOD:

DAY OF HOLIDAY OR EVENT: TIME ALL LANES MUST BE OPEN TO TRAFFIC:

SUNDAY	12:00N FRIDAY THROUGH 6:00 AM MONDAY
MONDAY	12:00N FRIDAY THROUGH 6:00 AM TUESDAY
TUESDAY	12:00N MONDAY THROUGH 6:00 AM WEDNESDAY
TUESDAY (GEN./REG. ELECTION)	5:00 AM TUESDAY THROUGH 6:00 AM WEDNESDAY
WEDNESDAY	12:00N TUESDAY THROUGH 6:00 AM THURSDAY
THURSDAY	12:00N WEDNESDAY THROUGH 6:00 AM FRIDAY
(THANKSGIVING ONLY)	6:00 AM WEDNESDAY THROUGH 6:00 AM MONDAY
FRIDAY	12:00N THURSDAY THROUGH 6:00 AM MONDAY
SATURDAY	12:00N FRIDAY THROUGH 6:00 AM MONDAY

NO EXTENSIONS OF TIME SHALL BE GRANTED FOR DELAYS IN MATERIAL DELIVERIES, UNLESS SUCH DELAYS ARE INDUSTRY-WIDE, OR FOR LABOR STRIKES, UNLESS SUCH STRIKES ARE AREA-WIDE.

LENGTH AND DURATION OF LANE CLOSURES AND RESTRICTIONS SHALL BE AT THE APPROVAL OF THE ENGINEER. IT IS THE INTENT TO MINIMIZE THE IMPACT TO THE TRAVELING PUBLIC. LANE CLOSURES OR RESTRICTIONS OVER SEGMENTS OF THE PROJECT IN WHICH NO WORK IS ANTICIPATED WITHIN A REASONABLE TIME FRAME, AS DETERMINED BY THE ENGINEER, SHALL NOT BE PERMITTED. THE LEVEL OF UTILIZATION OF MAINTENANCE OF TRAFFIC DEVICES SHALL BE COMMENSURATE WITH THE WORK IN PROGRESS.

BEFORE THE WORK BEGINS, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER THE NAMES AND TELEPHONE NUMBERS OF PERSONS WHO CAN BE CONTACTED TWENTY-FOUR (24) HOURS PER DAY BY THE CITY AND ALL INTERESTED POLICE AGENCIES. THIS PERSON OR PERSONS SHALL BE RESPONSIBLE FOR PLACING OR REPLACING NECESSARY TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH THE MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN TRAFFIC AT ALL TIMES. IT IS THE INTENTION TO PERFORM THE REQUIRED WORK WITH THE LEAST INCONVENIENCE TO AND THE MAXIMUM SAFETY OF THE WORKERS AND THE TRAVELING PUBLIC OCCASIONALLY, MODIFICATIONS IN TRAFFIC CONTROLS OR WORKING CONDITIONS MAY BE REQUIRED IN ORDER TO EXPEDITE SAFE TRAFFIC MOVEMENT AND TO PROMOTE WORKER SAFETY.

ALL VEHICLES, EQUIPMENT AND WORKERS AND THEIR ACTIVITIES ARE RESTRICTED TO ONE SIDE OF THE PAVEMENT UNLESS OTHERWISE APPROVED BY THE ENGINEER. CONSTRUCTION VEHICLES SHALL ALWAYS MOVE WITH AND NOT AGAINST THE FLOW OF TRAFFIC. CONSTRUCTION VEHICLES AND EQUIPMENT SHALL ENTER AND LEAVE WORK AREAS IN A MANNER WHICH WILL NOT BE HAZARDOUS TO, OR INTERFERE WITH THE NORMAL FLOW OF TRAFFIC. PERSONAL VEHICLES ARE NOT PERMITTED IN THE RIGHT-OF-WAY EXCEPT IN SPECIFIC AREAS DESIGNATED BY THE ENGINEER.

MAINTAINING TRAFFIC (SIGNS AND BARRICADES)

THE CONTRACTOR SHALL PROVIDE, ERECT AND MAINTAIN SIGNS AND SIGN SUPPORTS, AS DETAILED IN THE MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, AND TYPE III BARRICADES AT THE LOCATIONS SPECIFIED IN PLANS.

TEMPORARY PAVEMENT WEDGE

TEMPORARY PAVEMENT WEDGES SHALL BE PROVIDED AT ALL TIMES WHERE TRAFFIC IS REQUIRED TO TRAVEL FROM OR ONTO A PAVEMENT SURFACE OF A DIFFERENT ELEVATION. THE MINIMUM SLOPE OF THE TEMPORARY PAVEMENT WEDGE SHALL BE 3:1 ALONG LONGITUDINAL JOINTS AND 120:1 AT TRANSVERSE JOINTS. THESE WEDGES SHALL BE REMOVED PRIOR TO PLACING THE SPECIFIED PAVEMENT COURSE.

TRENCH FOR WIDENING

TRENCH FOR EXCAVATION FOR BASE WIDENING SHALL BE FOR ONLY ONE SIDE OF THE PAVEMENT AT A TIME. THE OPEN TRENCH SHALL BE ADEQUATELY MAINTAINED AND PROTECTED WITH DRUMS OR BARRICADES AT ALL TIMES. PLACEMENT OF PROPOSED SUBBASE AND BASE MATERIAL SHALL FOLLOW CLOSELY AS POSSIBLE BEHIND EXCAVATION OPERATIONS. THE LENGTH OF WIDENING TRENCH WHICH IS OPEN AT ANY ONE TIME SHALL BE HELD TO A MINIMUM AND SHALL AT ALL TIMES BE SUBJECT TO APPROVAL BY THE ENGINEER.

THE CONTRACTOR SHALL ENSURE THAT THE TRENCH FOR WIDENING HAS A VERTICAL DROP OF NO MORE THAN 5 INCHES. THE TRENCH CAN BE BACKFILLED BY AN AGGREGATE WEDGE. THE MAXIMUM SLOPE OF THE TEMPORARY AGGREGATE WEDGE SHALL BE 3:1 ALONG THE EXISTING PAVEMENT AND PROTECTED WITH DRUMS AT ALL TIMES.

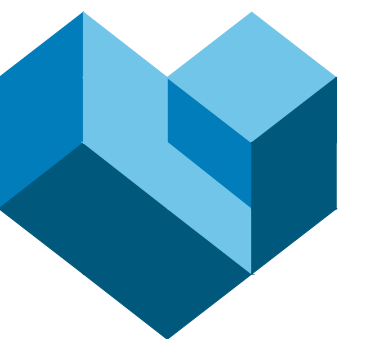
OVERNIGHT TRENCH CLOSING

THE BASE WIDENING SHALL BE COMPLETED TO A DEPTH OF NO MORE THAN 5 INCHES BELOW THE EXISTING PAVEMENT BY THE END OF EACH WORK DAY. NO TRENCH SHALL BE LEFT OPEN OVERNIGHT EXCEPT FOR A SHORT LENGTH (25 FEET OR LESS) OF A WORK SECTION AT THE END OF THE TRENCH. IN CASE WORK MUST BE SUSPENDED BECAUSE OF INCLEMENT WEATHER OR OTHER REASONS, THE TRENCH FOR THE UNCOMPLETED BASE WIDENING SHALL BE BACKFILLED AT THE DIRECTION OF THE ENGINEER.

CONSTRUCTION SEQUENCE

PHASE ONE:

1. COMPLETE SIDEWALK AND STORMWATER IMPROVEMENTS ON WEST SIDE OF OAKLAND DRIVE. CLOSE NORTHERN SHOULDER/BIKE LANE AND SIDEWALK AS SHOWN ON SHEET T1.1 AND PROVIDE SIGNAGE AS SHOWN ON PLANS. CONTRACTOR TO PROVIDE MINIMUM 10' TRAFFIC LANE FOR SOUTHBOUND DIRECTION. REFER TO SHEET T1.1 FOR ADDITIONAL DETAILS



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3050 OAKLAND DRIVE
KALAMAZOO, MICHIGAN 49008

7-ELEVEN, INC.

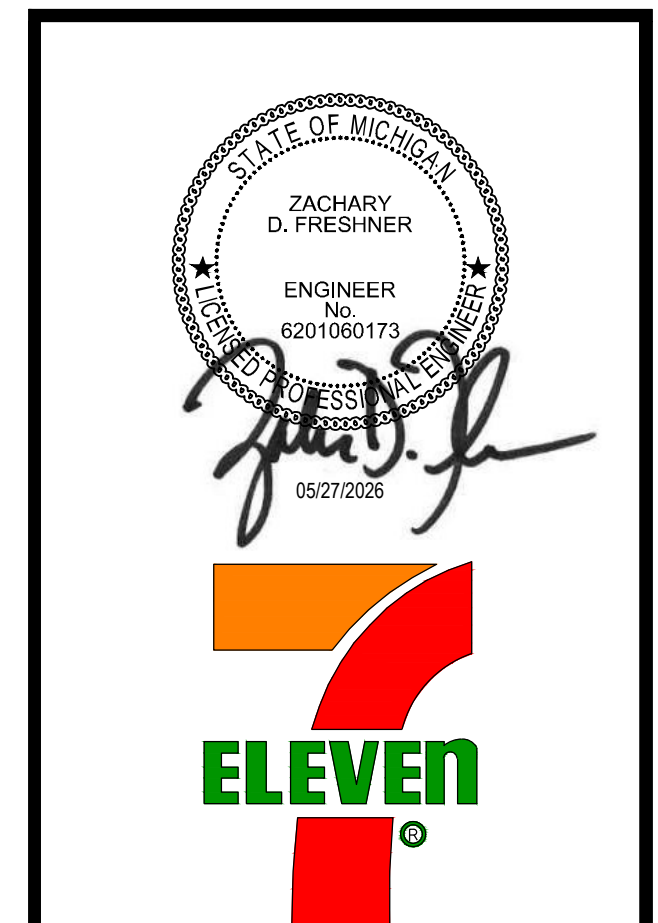
Revisions / Submissions

ID	Description	Date
1	CITY COMMENTS	03/06/2026

Project Number:	764708
Scale:	AS SHOWN
Drawn By:	SCW
Checked By:	###
Date:	3/5/26
Issue:	AGENCY REVIEW

Drawing Title:
MAINTENANCE OF TRAFFIC NOTES

T1.0



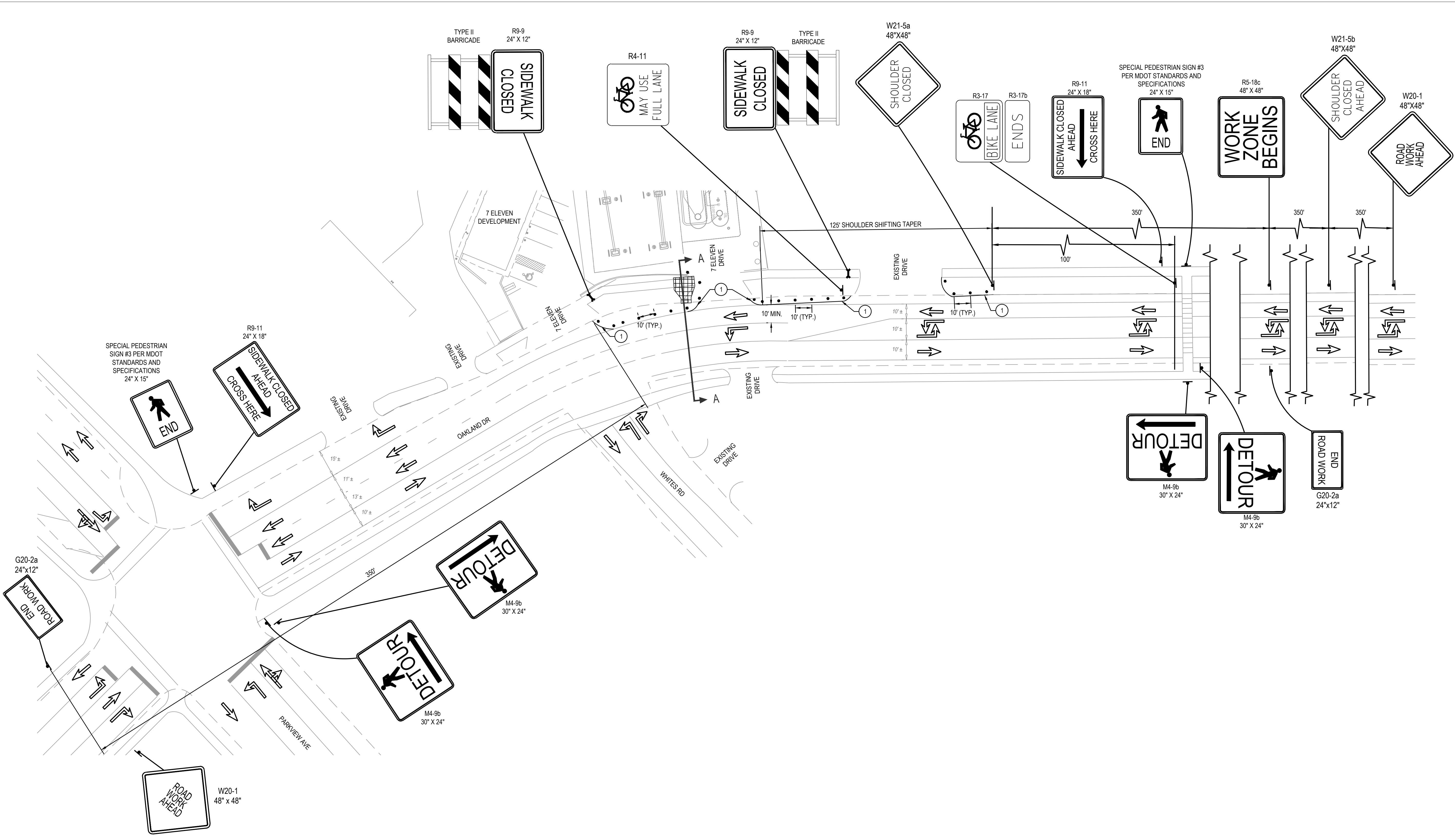
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1	CITY COMMENTS	03/06/2026

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 Project Number: 764708
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Drawing Title:
MAINTENANCE OF TRAFFIC PLAN - PHASE ONE

T1.1



- NOTES:**
- CONTRACTOR MUST MAINTAIN ACCESS TO ALL DRIVES WITHIN MAINTENANCE OF TRAFFIC LIMITS THROUGH THE DURATION OF CONSTRUCTION. CONTRACTOR TO COORDINATE ACCESS AND CLOSURES WITH PROPERTY OWNERS WITH DRIVEWAYS IMPACTED IN THE CONSTRUCTION ZONE.
 - ALL TEMPORARY TRAFFIC CONTROL MARKINGS SHALL BE REMOVABLE TAPE.
 - EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH TEMPORARY TRAFFIC CONTROL MARKINGS OR ARE LABELED TO BE REMOVED SHALL BE COVERED WITH REMOVABLE BLACKOUT TAPE.
 - TEMPORARILY BAG/COVER EXISTING SIGNS IN WORK ZONE WHEN THEY CONFLICT WITH INTENDED MAINTENANCE OF TRAFFIC PLAN.
 - STEADY BURNING TYPE A WARNING LIGHTS SHOWN ON THE ADVANCE WARNING SIGNS ARE ONLY REQUIRED WHENEVER A NIGHT LANE CLOSURE/LANE SHIFT IS NECESSARY.
 - ALL MATERIAL AND EQUIPMENT SHALL BE REMOVED FROM THE CLOSURE AND THE WORK AREA WHEN NO WORK IS BEING DONE.
 - ALL TAPERS AND WORK ZONE TRAFFIC CONTROL SHALL COMPLY WITH REQUIREMENTS OUTLINED IN THE MMUTCD MANUAL.
 - ALL TEMPORARY TRAFFIC CONTROL DEVICES AND TEMPORARY PAVEMENT MARKINGS SHALL COMPLY WITH MMUTCD MANUAL.
 - ALL TRENCHES MUST BE BACKFILLED AND STABILIZED TO ROADWAY SURFACE GRADE OR PROPERLY PLATED DURING NON-WORKING HOURS. IF PLATING IS REQUIRED, STEEL PLATE TYPE, DIMENSION AND CONFIGURATION MUST BE APPROVED BY MDOT PRIOR TO PLACEMENT. ALL PLATING MATERIALS AND PROCEDURES MUST FOLLOW MDOT STANDARDS AND SPECIFICATIONS.
 - TEMPORARY PAVEMENT MARKINGS CAN BE OMITTED FOR SHORT TERM OPERATIONS (UNDER 72 HOURS). LONGER TERM OPERATIONS (OVER 72 HOURS) WILL REQUIRE TEMPORARY PAVEMENT MARKINGS.
 - CONTRACTOR MUST PROPERLY DELINEATE DRIVEWAY OPENINGS WITH BARRELS & ADDITIONAL SIGNAGE (AS NEEDED) IN THE LANE CLOSURE ZONE. ACCESS TO ALL EXISTING DRIVEWAYS MUST BE MAINTAINED AND NO DRIVEWAYS SHALL BE BLOCKED BY BARRELS.

