

LIVONIA PUBLIC SCHOOLS 2025 PAVING PROGRAM  
CENTRAL OFFICE PHASE 2

ENGINEERING PLANS  
15125 FARMINGTON RD.  
LIVONIA, MI 48150

NTH PROJECT NO. 23001951-03

PERMITTING	
PERMIT TYPE	INFORMATION
CITY OF LIVONIA SOIL EROSION AND SEDIMENT CONTROL (SESC)	SEND THREE SETS OF PLANS, SIGNED AND SEALED, TO CITY OF LIVONIA DEPARTMENT OF ENGINEERING WITH APPLICATION AND FEE CHECK

NOTE:  
CONTRACTOR IS RESPONSIBLE FOR ALL PERMITTING FEES ASSOCIATED WITH THIS PROJECT

LIST OF ABBREVIATIONS

@	AT	FNDN	FOUNDATION	POT	POINT OF TANGENCY
◁	CENTERLINE	FO	FIBER OPTIC	PVC	POLYVINYL CHLORIDE
°	DEGREE OR DEGREES	FT	FOOT OR FEET	PVMT	PAVEMENT
Ø	DIAMETER	FTG	FOOTING	PZ	PNEUMATIC PIEZOMETER
'	FOOT, FEET	FWY	FREEWAY		
"	INCH, INCHES			R	RADIUS
#	NUMBER OR POUND	G	GAUGE	R	RADIUS
±	PLUS OR MINUS	GA	GALVANIZED	RCP	REINFORCED CONCRETE PIPE
		GALV	GALVANIZED	RD	ROAD
A		GMP	GROUND MONITORING POINT	REINF	REINFORCED/
AB	ANCHOR BOLT	GB	GRADE BEAM		REINFORCEMENT
AC	ACRE(S)	GP	GUSSET PLATE	REQD	REQUIRED
APPOX.	APPROXIMATE	GS	GROUND SURFACE	R.O.W.	RIGHT OF WAY
ARCH	ARCHITECTURAL	GR	GRADE	RR	RAILROAD
ASPH	ASPHALT	GV	GATE VALVE	RTNG	RETAINING
ASTM	AMERICAN STANDARDS AND TESTING MATERIALS	GV&W	GATE VALVE AND WELL		
AVG	AVERAGE	GW	GATE WELL	S	SOUTH
		H	HIGH/HORIZONTAL	SAN	SANITARY
B		H	HYDRAULIC GRADE LINE	SB	SOIL BORING
B	BOTTOM	HGL	HYDRAULIC GRADE LINE	SC	SHEAR CONNECTOR/
BIT	BITUMINOUS	HOR	HORIZONTAL		SHEAR CONNECTION
BLDG	BUILDING	HP	HIGH PRESSURE	SCH	SCHEDULE
BW	BENCHMARK	HT	HEIGHT	SE	SOUTHEAST
B.O.	BLOW OFF			SEC	SECTION
BOF	BOTTOM OF FOUNDATION	I		SESC	SOIL EROSION AND SEDIMENT CONTROL
BP	BASE PLATE	I	INCLINOMETER	SF	SQUARE FOOT
BRG	BEARING	ID	INNER DIAMETER	SHT	SHEET
BRKT	BRACKET	I.E.	INVERT ELEVATION	SIM	SIMILAR
BSMT	BASEMENT	IN	INCH(ES)	SPA	SPACE/SPACING
BW	BOTTOM OF WALL	INV	INVERT	SL	SPLICE LENGTH
				SOG	SLAB ON GRADE
C		J		SQ	SQUARE
CB	CATCH BASIN	JST	JOIST	SS	STAINLESS STEEL
C-C	CENTER TO CENTER	JT	JOINT	SSP	STEEL SHEET PILE
CF	CUBIC FEET			STA	STATION
CFS	CUBIC FEET PER SECOND	L		STD	STANDARD
CI	CAST IRON	L	LENGTH/LONG	STIFF	STIFFENER
CIP	CAST-IN-PLACE	LBS	POUNDS	STL	STEEL
CJ	CONTROL JOINT	LF	LINEAR FEET	STM	STORM
CLR	CLEAR	LVL	LEVEL	STRUC	STRUCTURAL
CMP	CORRUGATED METAL PIPE			SUP	SUPPORT
CMU	CONCRETE MASONRY UNIT	M		SUP	SOUTHWEST
CNJ	CONSTRUCTION JOINT	m	METER	S/W	SIDEWALK
CO	CLEAN OUT	MAS	MASONRY	SWM	STORMWATER MANAGEMENT
COL	COLUMN	MATL	MATERIAL	SY	SQUARE YARDS
CONC	CONCRETE	MAX	MAXIMUM		
CONT	CONTINUOUS	MDOT	MICHIGAN DEPARTMENT OF TRANSPORTATION	T	TOP
CONST	CONSTRUCTION			T	TEST BORING
COV	COVER	MECH	MECHANICAL	T&B	TOP AND BOTTOM
CP	CAP PLATE	MH	MANHOLE	TC	TOP OF CONCRETE
CSO	COMBINED SEWER OUTFALL	MJ	MECHANICAL JOINT	TEMP	TEMPORARY
CTV	CABLE TELEVISION	MTD	MANUFACTURED TREATMENT DEVICE	THK	THICK OR THICKNESS
		MTL	METAL	TP	TURNING POINT
D		MIN	MINIMUM	TO	TOP OF
DET	DETAIL	mm	MILLIMETER	TOF	TOP OF FOUNDATION
DI	DUCTILE IRON	MW	MONITORING WELL	TOPO	TOPOGRAPHIC
DIA	DIAMETER			TOS	TOP OF STEEL
DIAG	DIAGONAL	N		TOW	TOP OF WALL
DIM	DIMENSION	N	NORTH	TYP	TYPICAL
DIP	DUCTILE IRON PIPE	NB	NORTHBOUND	TW	TOP OF WALL
DWG	DRAWING	NE	NORTHEAST	TYP.	TYPICAL
DWL	DOWELS	NIC	NOT IN CONTRACT		
		NO	NUMBER		
		NTS	NOT TO SCALE	U	UNLESS NOTED OTHERWISE
		NW	NORTHWEST	UNO	UNLESS NOTED OTHERWISE
E				V	VERTICAL
E	EAST	O		V	VITREOUS CLAY PIPE
EA	EACH	O.C.	ON CENTER	VERT	VERTICAL
EGL	ENERGY GRADE LINE	O.D.	OUTERDIAMETER	VIF	VERIFY IN FIELD
EJ	EXPANSION JOINT	OPNG	OPENING		
EJIW	EAST JORDAN IRON WORKS	OPP	OPPOSITE	W	WEST
EL	ELEVATION			W	WEST
ELEC	ELECTRICAL	P		W/	WITH
ENG	ENGINEERED	PC	POINT OF CURVATURE	WD	WIDE
EX	EXISTING	PERM	PERMANENT	WM	WATERMAIN
EXCAV	EXCAVATE(D)	PL	PLATE	WWF	WELDED WIRE FABRIC
EXP	EXPANSION	P/L	PROPERTY LINE		
		POB	POINT OF BEGINNING	Y	YEAR
		POE	POINT OF ENDING	YR	YEAR
		PR	PROPOSED		
		PSF	POUNDS PER SQUARE FOOT		
		PSI	POUNDS PER SQUARE INCH		
		PT	POINT		
F					
F	FINISH FLOOR				
FF	FINISHED GRADE				
FG	FIRE HYDRANT				
FH	FLOOR				
FL	FLOOR				
FM	FORCEMAIN				

OWNER:  
Livonia Public Schools  
15125 Farmington Road  
Livonia, Michigan 48154  
Contact: Harry Lau  
Phone: 734-812-8537

ENGINEER:  
NTH Consultants, LTD.  
41780 Six Mile Road  
Suite 200  
Northville, Michigan 48168  
Contact: David R. Lutz, P.E.  
Phone: 248-662-2750

PROJECT DESCRIPTION:

LIVONIA PUBLIC SCHOOLS 2025 PAVING PROGRAM - CENTRAL OFFICE PHASE 2 CONSISTS OF PAVEMENT IMPROVEMENT AT THE LIVONIA PUBLIC SCHOOLS CENTRAL OFFICE LOCATION, INCLUDING FULL-DEPTH PAVEMENT REMOVAL AND GRADING, CRACK FILLING, AND RESEALING. THE PROJECT SCOPE INCLUDES, BUT IS NOT LIMITED TO:

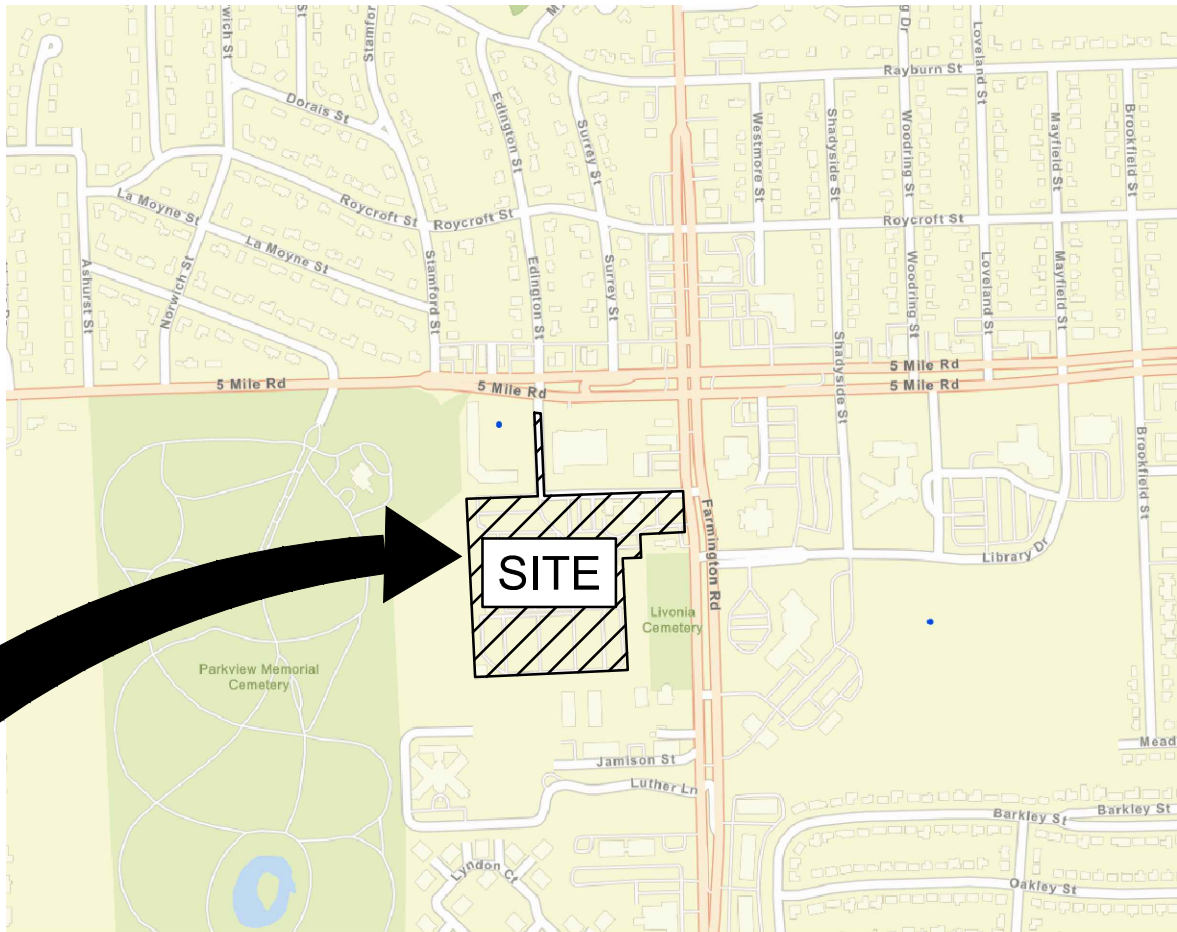
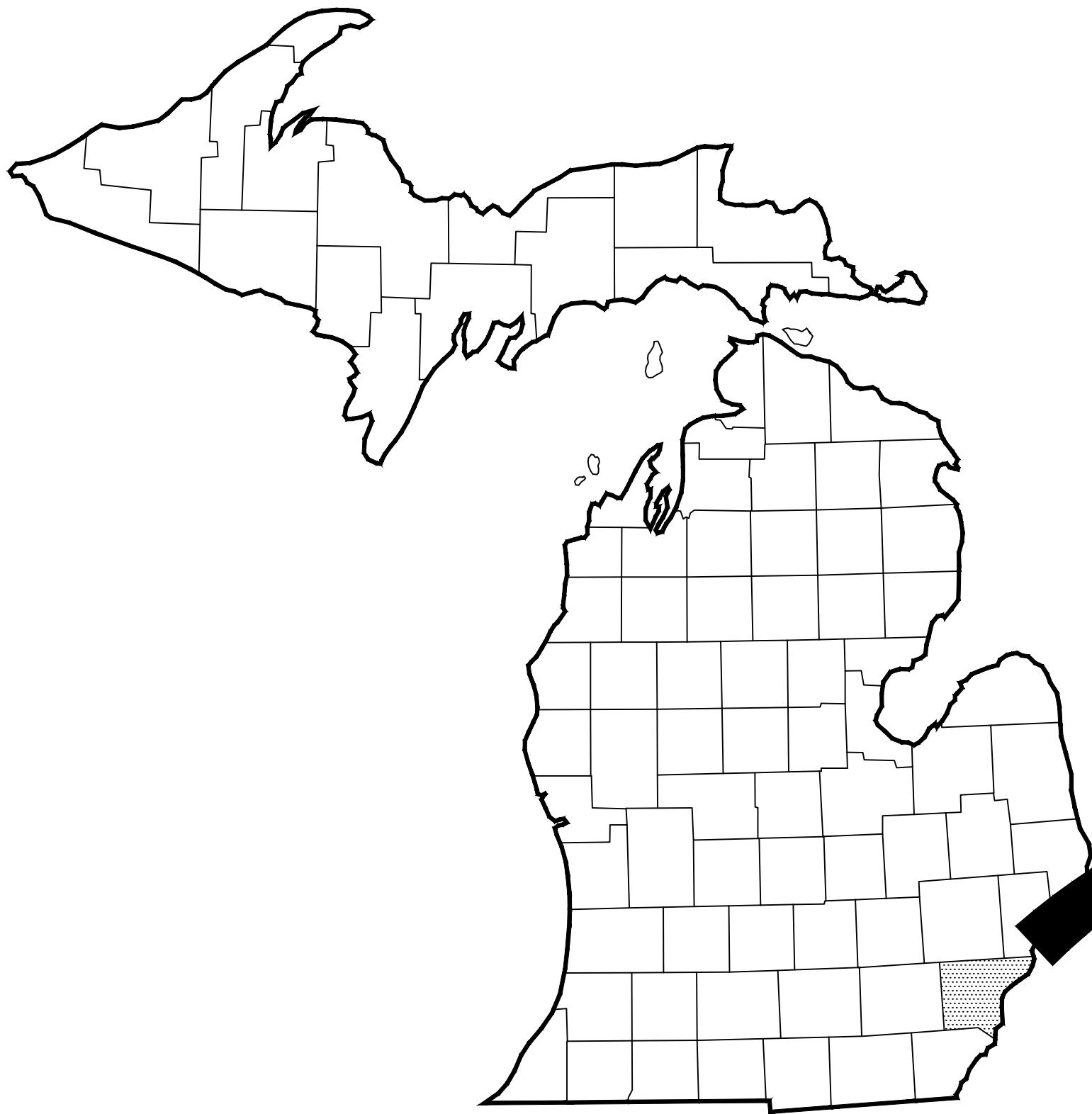
- 59,000 SQUARE FEET OF FULL DEPTH REMOVAL & REPLACEMENT (STANDARD DUTY ASPHALT)
- 79,000 SQUARE FEET OF FULL DEPTH REMOVAL & REPLACEMENT(HEAVY DUTY ASPHALT)
- INSTALLATION OF NEW CONCRETE BOX OUTS AND DRAIN TILES AROUND EXISTING DRAINAGE STRUCTURES ACROSS PHASE II PAVEMENT AREA, AND ADDITION OF 6 CONCRETE BOX OUTS FROM 2024 PHASE I.
- EXCAVATION AND REPLACEMENT OF SUBGRADE SOIL WITH COMPACTED STONE FILL TO A MAXIMUM DEPTH OF 18-INCHES BELOW THE BOTTOM OF THE PAVEMENT PROFILE, FOR A MAXIMUM OF 13,800 SQUARE-FEET OF THE FULL-DEPTH ASPHALT REPLACEMENT AREA.

Sheet List

C-100	COVER SHEET
C-101	TOPOGRAPHIC SURVEY (BY OTHERS)
C-102	PAVEMENT SEQUENCING PLAN
C-103	SOIL EROSION AND SEDIMENTATION CONTROL PLAN
C-104	SOIL EROSION AND SEDIMENTATION CONTROL STANDARD DETAILS
C-105	DEMOLITION PLAN
C-106	PROPOSED SITE AND GRADING PLAN
C-501	CIVIL DETAILS

NOTES

- TOPOGRAPHIC SURVEY WAS PERFORMED BY KEM-TEC & ASSOCIATES ON FEBRUARY 26, 2024.
- LOCATION OF UTILITIES OR OTHER STRUCTURES SHOWN ON PLANS ARE TAKEN FROM SURVEY OF RECORD. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR ANY OMISSIONS OR VARIATIONS. THE CONTRACTOR SHALL CONTACT MISS DIG A MINIMUM OF THREE WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION IN THE AREA OF WORK AND SHALL VERIFY ALL UNDERGROUND UTILITIES ON-SITE, PRIOR TO CONSTRUCTION.
- FULL-DEPTH REMOVAL IS DEFINED AS REMOVING 100 PERCENT OF THE BITUMINOUS CONCRETE AND BASE WHERE NECESSARY TO ACHIEVE THE REQUIRED DESIGN PROFILE, AND PROOF ROLLING THE EXISTING AGGREGATE BASE OR SUBBASE. IF THE AGGREGATE BASE IS SOUND, INSTALL NEW BITUMINOUS CONCRETE PROFILE AS SPECIFIED (HEAVY-DUTY OR STANDARD-DUTY PROFILE). IF AGGREGATE BASE YIELDS UNDER PROOF ROLLING LOAD, AT THE DIRECTION OF THE OWNERS ENGINEER, REMOVE AGGREGATE BASE AND EXPOSE SUBGRADE SOILS. PROOF ROLL; IF THEY YIELD UNDER LOAD, REMOVE UP TO 18-INCHES OF SUBGRADE AND BACKFILL WITH COMPACTED STONE IN LIFTS NO GREATER THAN 6-INCHES. INSTALL NEW PAVEMENT OVER THE STONE (AGGREGATE BASE AND BITUMINOUS CONCRETE SECTION) AT DIRECTION OF THIRD PARTY TESTING FIRM.
- THE CONTRACTOR SHALL AVOID DAMAGE TO THE EXISTING PAVEMENTS DESIGNATED TO REMAIN. ANY PAVEMENT DAMAGE THAT OCCURS AS A RESULT OF THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- CONTRACTOR TO INSPECT ALL MANHOLE STRUCTURES DURING CONSTRUCTION AND INFORM THE OWNER OF ANY STRUCTURES IN POOR CONDITION.
- CONTRACTOR SHALL NOTIFY THE CITY OF LIVONIA'S ENGINEERING DEPARTMENT 48 HOURS PRIOR TO ANY WORK IN THE RIGHT-OF-WAY. INSPECTION AND APPROVAL IS REQUIRED AFTER SETTLING FORMS, BUT PRIOR TO POURING CONCRETE, WITHIN THE CITY'S RIGHT-OF-WAY.



WAYNE COUNTY  
NO SCALE



MICHIGAN  
APPROX SCALE 1"= 50 MILES

BID

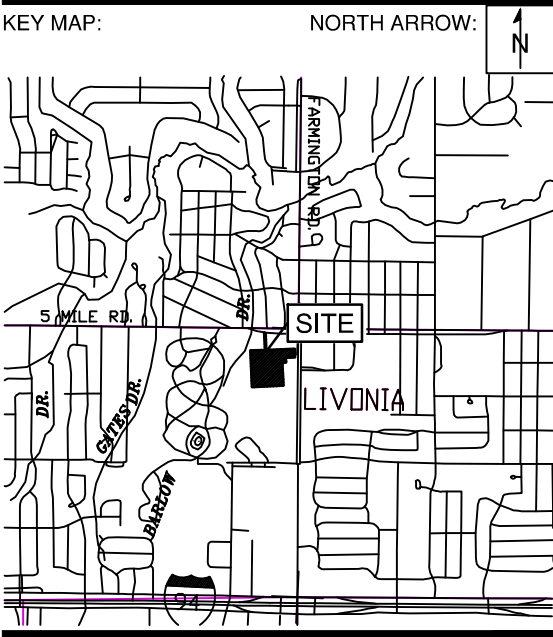


NTH Consultants, Ltd.  
Infrastructure Engineering  
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Lansing, MI  
Grand Rapids, MI  
Livonia, MI (Laboratory)



SEAL/STAMP:



REVISION BLOCK	
REV	DATE: DESCRIPTION

SUBMITTAL LOG	
DATE	PACKAGE NAME

PROJECT NAME:  
LIVONIA PUBLIC SCHOOLS  
2025 PAVING PROGRAM-  
CENTRAL OFFICE PHASE 2

PROJECT LOCATION:  
15125 FARMINGTON ROAD  
LIVONIA, MICHIGAN 48150

DESIGNED BY:	NTH PROJECT NO.:
KBH	23001951
DRAWN BY:	SHEET SIZE:
KBH	ARCH D (24"x36")
CHECKED BY:	DATE:
DRL	1/31/2025

CAD FILE NAME:  
23001951-02-COV

SHEET TITLE:  
COVER SHEET

SHEET NUMBER:

C-100











































VICINITY MAP  
(NOT TO SCALE)  
MANHOLE SCHEDULE

NUM	TYPE	HDM (FT)	SIZE (IN)	DIR	INV ELEV (FT)
10116	STORM CB	662.78	B/STRUCTURE		656.88

10502	DOOM	68.78	1	TV	58.81
		68.78	1	TV	58.81
10508	DOOM	68.89	30	SW	59.15
		68.89	30	SW	59.15
10510	DOOM	68.93	30	NE	59.25
		68.93	30	NE	59.25
10511	DOOM	68.95	30	SE	59.09
		68.95	30	SE	59.09
10501	SANFARI	68.98	15	W	58.29
		68.98	15	W	58.29
10503	SANFARI	68.98	6	E	58.76
		68.98	6	E	58.76
10504	DOOM	68.98	6	W	58.80
		68.98	6	W	58.80
10505	SANFARI	68.99	6	S	58.77
		68.99	6	S	58.77
10506	DOOM	68.99	4	SW	59.24
		68.99	4	SW	59.24
10512	DOOM	69.00	30	NW	59.05
		69.00	30	NW	59.05
11005	DOOM	69.32	1	E	58.95
		69.32	1	E	58.95
11006	DOOM	69.32	1	W	58.95
		69.32	1	W	58.95
11007	DOOM	69.32	1	SW	59.06
		69.32	1	SW	59.06
11008	DOOM	69.32	1	SE	58.95
		69.32	1	SE	58.95
11009	DOOM	69.32	21	S	58.76
		69.32	21	S	58.76
11010	DOOM	69.33	6	W	58.94
		69.33	6	W	58.94
11011	DOOM	69.33	6	SE	58.94
		69.33	6	SE	58.94
11012	DOOM	69.33	6	NE	58.97
		69.33	6	NE	58.97
11013	DOOM	69.33	15	SE	58.95
		69.33	15	SE	58.95
11014	DOOM	69.33	1	TV	58.94
		69.33	1	TV	58.94
11015	DOOM	69.33	5	E	59.04
		69.33	5	E	59.04
11016	DOOM	69.33	4	W	59.04
		69.33	4	W	59.04
11017	DOOM	69.33	6	SE	58.94
		69.33	6	SE	58.94
11018	DOOM	69.33	6	SW	58.94
		69.33	6	SW	58.94
11019	DOOM	69.33	6	NE	58.97
		69.33	6	NE	58.97
11020	DOOM	69.33	6	E	59.03
		69.33	6	E	59.03
11021	DOOM	69.33	6	SE	58.94
		69.33	6	SE	58.94
11022	DOOM	69.33	6	SW	58.94
		69.33	6	SW	58.94
11023	DOOM	69.33	6	NE	58.97
		69.33	6	NE	58.97
11024	DOOM	69.33	6	E	59.03
		69.33	6	E	59.03
11025	DOOM	69.33	6	SE	58.94
		69.33	6	SE	58.94
11026	DOOM	69.33	6	SW	58.94
		69.33	6	SW	58.94
11027	DOOM	69.33	6	NE	58.97
		69.33	6	NE	58.97
11028	DOOM	69.33	6	E	59.03
		69.33	6	E	59.03
11029	DOOM	69.33	6	SE	58.94
		69.33	6	SE	58.94
11030	DOOM	69.33	6	SW	58.94

LEGEND

	FOUND MONUMENT (AS NOTED)
	FOUND SECTION CORNER (AS NOTED)
(R&M)	RECORD AND MEASURED DIMENSION
(R)	RECORD DIMENSION
(M)	MEASURED DIMENSION
X 0.00	GROUND ELEVATION
	ELECTRIC PANEL
	ELECTRIC RISER
	TRANSFORMER
	GENERATOR
	UTILITY POLE
	GAS METER
	GAS VALVE
	CLEANOUT
	SANITARY MANHOLE
	ROUND CATCH BASIN
	SQUARE CATCH BASIN
	STORM DRAIN MANHOLE
	FIRE HYDRANT
	FIRE DEPARTMENT CONNECTION
	WATER GATE MANHOLE
	WATER VALVE
	MONITOR WELL
	UNKNOWN MANHOLE
	AIR CONDITIONING UNIT
	BOLLARD
	FLAGPOLE
	GAS FILL
	LIGHTPOST/LAMP POST
	SINGLE POST SIGN
	TREE (AS NOTED)
	PARCEL BOUNDARY LINE
	ADJOINER PARCEL LINE
	SECTION LINE
	EASEMENT (AS NOTED)
	BUILDING
	BUILDING OVERHANG
	ASPHALT CURB
	CONCRETE CURB
	RAISED CONCRETE
	PARKING
	EDGE OF CONCRETE (CONC.)
	EDGE OF ASPHALT (ASPH.)
	EDGE OF BRICK
	FENCE (AS NOTED)
	WALL / BRUSH LINE (AS NOTED)
	OVERHEAD UTILITY LINE
	GAS LINE
	SANITARY LINE
	STORM LINE
	WATER LINE
	MINOR CONTOUR LINE
	MAJOR CONTOUR LINE
	BUILDING AREA
	ASPHALT
	CONCRETE



### PROPERTY DESCRIPTION

**PARCEL 1:**  
THE LAND SITUATED IN THE LIVONIA, COUNTY OF WAYNE, STATE OF MICHIGAN,  
IS DESCRIBED AS FOLLOWS:

THAT PART OF THE N E 1/4 OF SEC 21 DES AS BEG A POINT ON THE E LINE OF SAID SECTION DISTANT S OD 31M 30SEC E 478.50 FT FROM THE N E CORNER OF SEC 21 AND PROCEEDING TH S OD 31M 30SEC E ALONG SAID E LINE 194.0 FT TH S 88D 22M 40SEC W 210.50 FT TH S OD 31M 30SEC E 106.0 FT TH S89D 47M 30SEC W 87.50 FT TH S OD 31M 30SEC E 527.34 FT TH S 89D 22M 50SEC W 719.52 FT TH N OD 41M 30SEC W 841.42 FT TH E 1020.03 FT TO THE POB.

**PARCEL 2:**  
THE LAND SITUATED IN THE LIVONIA, COUNTY OF WAYNE, STATE OF MICHIGAN,  
IS DESCRIBED AS FOLLOWS:

PT OF THE NE 1/4 SEC 21 T1SR9E BEG AT A PTE DIST DUE W 653.42FT AND  
S0DEG 31M 30S E 88.86FT FROM THE NE COR OF SEC 21 TH S0DEG 31M 30S  
E 389.64FT TH DUE W 30FT TH N0DEG 31M 30S W 393.93FT TH S81DEG 52M  
56S E 30.34FT POB 0.27 AC.

**PARKING**

**PARKING**  
HANDICAP PARKING = 13 STALLS  
STANDARD PARKING = 340 STALLS  
BUS PARKING = 166 STALLS

### BASIS OF BEARING

SOUTH 00°31'30" EAST, BEING THE EAST LINE OF SECTION 21, AS DESCRIBED.

TITLE REPORT NOTE

A CURRENT TITLE POLICY HAS NOT BEEN FURNISHED AT TIME OF SURVEY,  
THEREFORE EASEMENTS AND/OR ENCUMBRANCES AFFECTING SUBJECT PARCEL  
MAY NOT BE SHOWN.

### SURVEYOR'S NOTE

THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA. EITHER IN OR OUT OF THE ZONE. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES OTHER THAN THE STRUCTURE INVENTORY SHOWN HEREON.

## BENCHMARK

**SITE BENCHMARK #1**  
RAILROAD SPIKE IN EAST SIDE OF UTILITY POLE APPROXIMATELY 5'± NORTH OF  
PARKING LOT AND APPROXIMATELY 42'± WEST OF CENTERLINE OF WILLIAMS  
WAY STREET.  
ELEVATION = 665.46' (NAVD 88)

**SITE BENCHMARK #2**  
ARROW ON HYDRANT APPROXIMATELY 70'± EAST OF WAREHOUSE BUILDING AND  
APPROXIMATELY 60'± NORTHWEST OF BUS MAINTENANCE BUILDING.  
ELEVATION = 666.57' (NAVD 88)

SITE BENCHMARK #3  
RAILROAD SPIKE IN EAST SIDE OF UTILITY POLE IN BUS PARKING LOT.  
ELEVATION = 667.00' (NAVD 88)

**SITE BENCHMARK #4**  
RAILROAD SPIKE IN WEST SIDE OF UTILITY POLE APPROXIMATELY 5'± WEST OF  
FARMINGTON ROAD AND NORTH APPROXIMATE 27'± FROM CENTERLINE OF  
DRIVE.  
ELEVATION = 667.34' (NAVD 88)

### SURVEYOR'S CERTIFICATION

I HEREBY CERTIFY THAT I HAVE SURVEYED THE PROPERTY HEREIN DESCRIBED.  
THE ELEVATIONS SHOWN HEREON ARE BASED ON A FIELD SURVEY AND THE  
DRAWING HEREON DELINEATED IS A CORRECT REPRESENTATION OF THE SAME.

ANTHONY T. SYCKO, JR., P.S.  
PROFESSIONAL SURVEYOR  
MICHIGAN LICENSE NO. 47976  
22556 GRATIOT AVE., EASTPOINTE, MI 48021  
TSycko@kentec-survey.com







Infrastructure Engineering  
Environmental Services  
Facilities Engineering

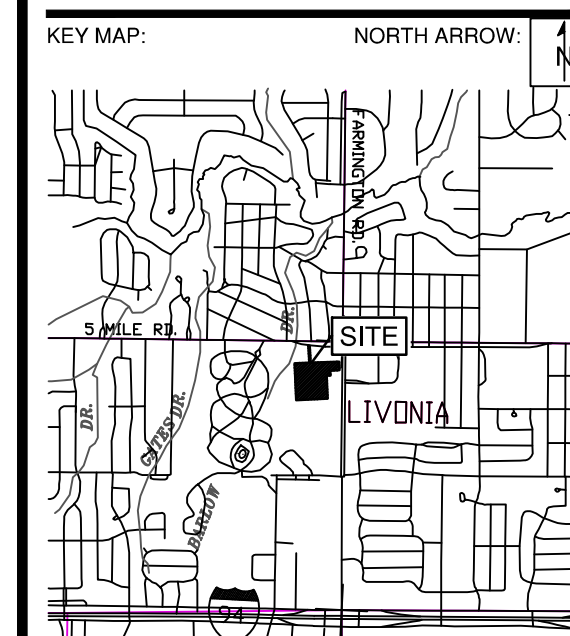
3 WORKING DAYS  
**BEFORE YOU DIG  
CALL MISS DIG.**  
1-800-482-7171  
For free location of public utility lines.  
ALTERNATE NUMBER (811)  
COLOR CODES FOR UTILITY LOCATING:

Yellow	Oil & Gas	Blue	Water
Orange	PHONE & CATV	Green	SEWER
Red	ELECTRIC	Brown	SURFACING
		Pink	

IF YOU ARE GOING TO WORK NEAR OVERHEAD WIRES...CALL MISS DIG.



KEY MAP: NORTH ARROW: 

[illegible]

SUBMITTAL LOG	
DATE	PACKAGE NAME

PROJECT NAME:  
LIVONIA PUBLIC SCHOOLS  
2025 PAVING PROGRAM-  
CENTRAL OFFICE PHASE 2

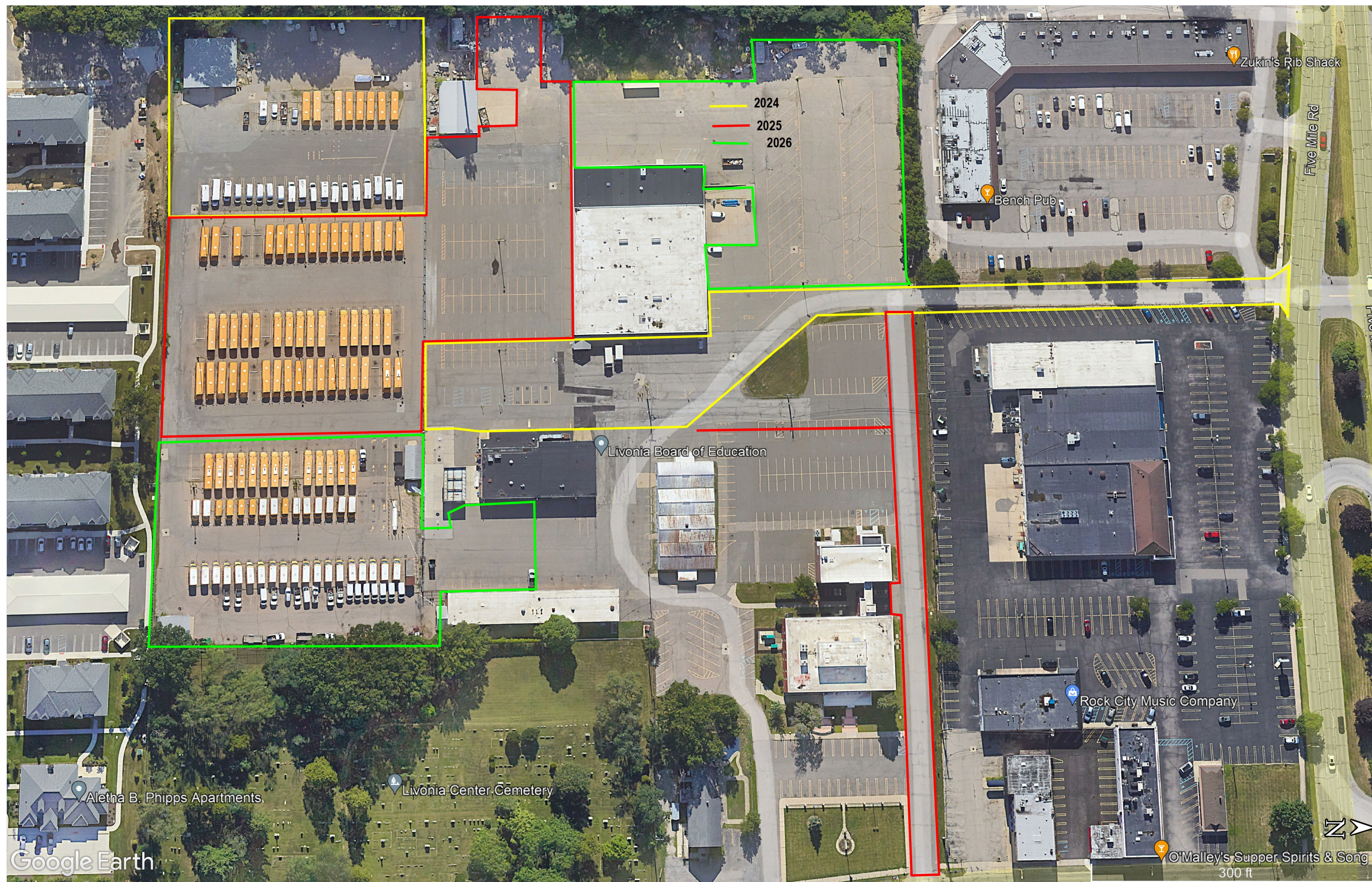
PROJECT LOCATION:  
15125 FARMINGTON ROAD  
LIVONIA, MICHIGAN 48150

DESIGNED BY: <b>KBH</b>	NTH PROJECT NO.: <b>23001951</b>
DRAWN BY: <b>KBH</b>	SHEET SIZE: <b>ARCH D (24"x36")</b>
CHECKED BY: <b>DRL</b>	DATE: <b>1/31/2025</b>
CAD FILE NAME:	

SHEET TITLE:  
PAVEMENT SEQUENCING  
PLAN

SHEET NUMBER:

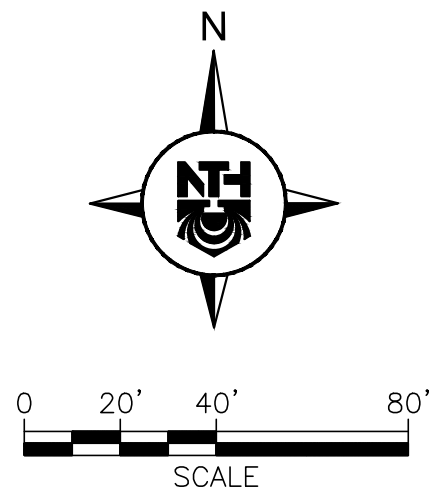
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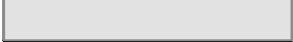

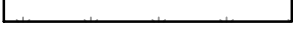






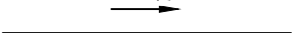


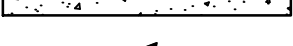










BID



1. THIS PLAN ILLUSTRATES THE MINIMUM SOIL EROSION AND SEDIMENTATION CONTROLS NEEDED TO PREVENT SILTS FROM LEAVING THE SITE AND IS SUBJECT TO CHANGE AS CONDITIONS IN THE FIELD WARRANT.
2. SITE SOIL GENERALLY CONSISTS OF GRAVELLY SAND.
3. TOPOGRAPHIC SURVEY PERFORMED BY KEM-TEC DATED 02/26/24.
4. SOIL BORINGS PERFORMED BY G2 CONSULTING GROUP, LLC.



	EXISTING BUILDING
	EXISTING CONTOURS
	EXISTING ASPHALT PAVEMENT
	EXISTING CONCRETE PAVEMENT
	EXISTING LANDSCAPING/LAWN AREA
	EXISTING FENCE
	EXISTING OVERHEARD ELECTRIC
	EXISTING BOLLARD POST
	EXISTING LIGHT POLE
	EXISTING UTILITY POLE
	EXISTING HYDRANT
	PROPOSED CONTOURS
	PROPOSED SLOPE ARROW
	PROPOSED ASPHALT PAVEMENT
	PROPOSED ASPHALT PAVEMENT (HEAVY-DUTY)
	PROPOSED CONCRETE PAVEMENT
	PROPOSED TRAFFIC STRIPING
	PROPOSED INLET FILTER
	PROPOSED CONSTRUCTION ENTRANCE
	PROPOSED SILT FENCE
	LIMITS OF EARTH CHANGE
	SOIL BORING
	MATCHLINE

CONTRACTOR SHALL ENSURE THAT SOIL EROSION AND SEDIMENTATION CONTROL MEASURES PROTECT AGAINST LOSS OF SOIL BY THE ACTION OF WATER, ICE, GRAVITY AND WIND.

1. KEEP DISTURBED AREA AS SMALL AS POSSIBLE.
2. STABILIZE AND/OR PROTECT DISTURBED AREAS AS SOON AS
3. KEEP STORM WATER RUNOFF VELOCITIES LOW.
4. RETAIN SEDIMENT WITHIN IMMEDIATE CONSTRUCTION AREA.

ALL SOIL EROSION AND SEDIMENTATION CONTROL DEVICES SHALL BE REGULARLY MAINTAINED BY THE CONTRACTOR THROUGHOUT THE DURATION OF THE PROJECT. COLLECTED SILT AND SEDIMENTATION SHALL BE REMOVED PERIODICALLY TO MAINTAIN THE EFFECTIVENESS OF THE SILT TRAPS OR SEDIMENTATION CONTROL DEVICES. WHERE REQUIRED, THE CONTRACTOR SHALL REMOVE AND REPLACE FILTER MATERIALS WHICH HAVE BECOME INEFFECTIVE DUE TO CONTAMINATION OR PHYSICAL DETERIORATION.

SURFACE DISRUPTION IN ADVANCE OF CONSTRUCTION INCLUDING CLEARING, GRADING OR SIGNIFICANT SOD REMOVAL SHALL BE PROCEEDED BY INSTALLATION OF SOIL EROSION AND SEDIMENTATION CONTROL DEVICES AS FOLLOWS, UNLESS PERMISSION IS OTHERWISE OBTAINED FROM THE GOVERNING AGENCY.

- A. WET WEATHER SEASON (MARCH, APRIL, MAY) - 5 DAYS PRIOR TO BEGINNING ANY EARTH CHANGE ACTIVITY.
- B. DRY WEATHER SEASON (JUNE, JULY, AUGUST, SEPTEMBER, OCTOBER, NOVEMBER) - 10 DAYS PRIOR TO BEGINNING ANY EARTH CHANGE ACTIVITY.
- C. COLD WEATHER SEASON (DECEMBER, JANUARY, FEBRUARY) - 15 DAYS PRIOR TO BEGINNING ANY EARTH CHANGE ACTIVITY.

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 COLOR CODES FOR UTILITY LOCATING:

Yellow	OIL & GAS	Blue	WATER
Orange	PHONE & CATV	Green	STORM DRAIN
Red	ELECTRIC	Brown	SEWER
		Pink	SURVEYING

**IF YOU ARE GOING TO WORK NEAR OVERHEAD WIRES -- CALL MISS DIG**



REVISION BLOCK	
REV	DATE: DESCRIPTION

SUBMITTAL LOG	
DATE	PACKAGE NAME

PROJECT LOCATION:  
15125 FARMINGTON ROAD  
LIVONIA, MICHIGAN 48150

DESIGNED BY: KBH	NTH PROJECT NO.: 23001951
DRAWN BY: KBH	SHEET SIZE: ARCH D (24"x36")
CHECKED BY: DRL	DATE: 1/31/2025
CAD FILE NAME:	

SHEET NUMBER:

**C-103**



### STRAW MULCH EROSION CONTROL BLANKET

FABRIC SILT FENCE DETAIL

TEMPORARY CHECK DAM DETAIL

### CONSTRUCTION ACCESS DRIVE DETAIL

REAR YARD INLET  
SILT FENCE BARRIER

SOIL EROSION AND SEDIMENTATION CONTROL  
MAINTENANCE SCHEDULE AND NOTES:

1. ALL MUD, DIRT, AND/OR DEBRIS TRACKED OR SPILLED ONTO ANY PAVED AREAS SHALL BE REMOVED/CLEANED DAILY IN A PROMPT MANNER BY THE CONTRACTOR AND/OR BUILDER. SCRAPING AND/OR SWEEPING OF PAVED AREAS TO REMOVE DEBRIS WILL BE REQUIRED WEEKLY.
2. SILT FENCE MAINTENANCE SHALL INCLUDE THE REMOVAL OF ANY BUILT-UP SEDIMENT WHEN THE HEIGHT OF THE SEDIMENT ACCUMULATES TO 2 FEET. THE HEIGHT OF THE FENCE OR IF THE FABRIC BEGINS TO SAG, THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL, REPLACEMENT, RETENCING AND BACKFILLING OF THE SILT FENCE SHOULD IT FALL OR BE DAMAGED DURING CONSTRUCTION.
3. SILT SALT MAINTENANCE SHALL INCLUDE THE REMOVAL OF ANY ACCUMULATED SEDIMENTATION OR OTHER DEBRIS FROM THE SILT SALT. THE REMOVAL OF SEDIMENTATION SHOULD BE ACCOMPLISHED BY USING A STIFF BRISTLE BROOM OR SQUARE POINT SHOVEL. IF SILT SALT CANNOT BE CLEANED, OR ARE DAMAGED, THEY MUST BE REPLACED ACCORDING TO THE PLANS.
4. PERMANENT SOIL EROSION CONTROL MEASURES FOR ALL SLOPES, CHANNELS, DITCHES OR ANY DISTURBED LAND AREA SHALL BE COMPLETED WITHIN 5 CALENDAR DAYS AFTER FINAL GRADING OR FINAL EARTH CHANGES HAVE BEEN COMPLETED, WHEN IT IS NO LONGER FEASIBLE TO MAINTAIN TEMPORARY EROSION CONTROL MEASURES. IF THE DISTURBED AREA HAS BEEN COMPLETED, OR WHERE SIGNIFICANT EARTH CHANGE ACTIVITY CEASED, TEMPORARY SOIL EROSION CONTROL MEASURES SHALL BE IMPLEMENTED WITHIN 5 CALENDAR DAYS. ALL TEMPORARY SOIL EROSION CONTROL MEASURES SHALL BE MAINTAINED UNTIL PERMANENT SOIL EROSION CONTROL MEASURES ARE COMPLETED. PERMANENT SOIL EROSION CONTROL MEASURES SHALL BE MAINTAINED UNTIL PERMANENT SOIL EROSION CONTROL MEASURES ARE ESTABLISHED. A CERTIFICATE OF COMPLIANCE IS ISSUED. ALL DRAIN BANKS DISTURBED BY CONSTRUCTION SHALL BE RESTORED WITHIN 5 CALENDAR DAYS AND SOO FEGGED IN PLACE.
5. FILTER BARRIERS AND LOW POINT INLET FILTERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. FILTERS SHALL BE REPAIRED IMMEDIATELY IF THEY ARE DAMAGED.
6. IF ANY FILTER FABRIC DECOMPOSES OR BECOMES INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE, THE BARRIER IS STILL REQUIRED, THE FABRIC SHALL BE REPLACED PROMPTLY. FILTER FENCING WHICH SAGS, FALLS OVER OR IS NOT STAKED IN, SHOULD PROMPTLY BE REPAIRED OR REPLACED.
7. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE OR FILTER BARRIER IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM WITH THE EXISTING GRADE, PREPARED, AND SEEDED.
8. ALL SOIL EROSION AND SEDIMENTATION CONTROL MEASURES BOTH PERMANENT AND TEMPORARY SHALL BE THE RESPONSIBILITY OF THE PROPERTY OWNER, UNLESS OTHERWISE NOTED. THESE MAINTENANCE RESPONSIBILITIES SHALL BE PART OF ANY FUTURE SALES AGREEMENT.
9. EXCAVATED MATERIALS SHALL REMAIN ON-SITE, PARTICULAR CARE SHALL BE TAKEN WHEN WORKING ALONG THE PERMETER OF THE SITE. IN NO EVENT SHALL THE WORK AREA EXTEND BEYOND THE LIMITS INDICATED ON THE PLANS.
10. ALL SOIL EROSION AND SEDIMENT CONTROL WORK SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF WAYNE COUNTY AND THE CITY OF LIVONIA.
11. DAILY INSPECTIONS SHALL BE MADE BY THE CONTRACTOR TO DETERMINE EFFECTIVENESS OF THE SOIL EROSION AND SEDIMENTATION CONTROL MEASURES. ANY NECESSARY REPAIRS SHALL BE PERFORMED WITHOUT DELAY.
12. EROSION AND/OR SEDIMENT FROM DOWN-STREAM WATER SHALL BE CONTAINED ON THE SITE AND NOT ALLOWED TO COLLECT ON ANY OFF-SITE AREAS, OR IN DRAINWAYS. WATERSHEDS INCLUDE BOTH NATURAL AND MAN-MADE OPEN DITCHES, STREAMS, STREAM DRAINS, LAKES, AND POND.
13. SOIL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE INSTALLED PRIOR TO, OR AS THE FIRST STEP IN CONSTRUCTION. SESC PRACTICES SHALL BE APPLIED AS A PERMETER DEFENSE AGAINST THE TRANSPORTING OF SILT OFF-SITE.
14. THE CONTRACTOR SHALL APPLY TEMPORARY SOIL EROSION AND SEDIMENTATION CONTROL MEASURES AS REQUIRED, AND AS DIRECTED ON THESE PLANS. TEMPORARY MEASURES SHALL BE REMOVED AS SOON AS PERMANENT STABILIZATION OF SLOPES, DITCHES AND OTHER EARTH CHANGES HAVE BEEN COMPLETED AND APPROVED BY THE CITY OF LIVONIA ENGINEERING DIVISION.
15. DEBRIS FROM THE PROJECT SITE SHALL BE LEFT ON-SITE BY DELIVERY OR CONSTRUCTION VEHICLES THROUGH THE USE OF CLEAN STONE EXITS(S). SHOULD THE STONE BECOME LESS EFFECTIVE AND/OR EFFICIENT IT SHALL BE REPLACED. ALL CONSTRUCTION TRAFFIC MUST USE THE CLEAN STONE EXITS.
16. DUST CONTROL SHALL BE EXERCISED AT ALL TIMES WHEN THE PROJECT BY THE DEVELOPER AND/OR HIS CONTRACTORS, SPRINKLING TANK TRUCKS MUST BE AVAILABLE AT ALL TIMES TO BE USED ON HAUL ROUTES OR OTHER PLACES WHERE DUST MAY BECOME A PROBLEM.
17. EARTH EMBANKMENT BRIDGES PLACED OVER NEW PAVEMENT SHALL BE LOCATED ONLY AT PAVEMENT HIGH-POINTS AND SHALL HAVE STRAW BALES PLACED ALONG EACH SIDE OF THE BRIDGE FOR THE WIDTH OF PAVEMENT.
18. IMMEDIATELY AFTER SEEDING, ALL SEEDED AREAS SHALL BE MULCHED WITH UNWEATHERED SMALL GRASS STRAW OR HAY, SPREAD AT A RATE OF 1000 LBS PER ACRE. MULCH SHALL BE APPLIED TO ALL SEEDING AREAS. ANCHOR MULCH WITH DISC-TYPE ANCHORING TOLL, OR OTHER MEANS APPROVED BY THE CITY OF LIVONIA ENGINEERING DIVISION.

### STORM OUTLET DETAIL WITH GROUTED STONE RIP-RAP

SILTSACK SEDIMENT  
FILTER DETAIL

### INLET FILTER DETAILS FOR SOIL EROSION & SEDIMENTATION CONTROL

**CONCRETE WASHOUT AREA**

NOT TO SCALE  
(SEE NOTE 2)

CONCRETE WASHOUT AREA NOTES:

1. CONCRETE WASHOUT AREA(S) SHALL BE INSTALLED PRIOR TO CONCRETE PLACEMENT ON SITE. THE CONCRETE WASHOUT AREA SHALL BE ENTIRELY SELF-CONTAINED.
2. THE CONTRACTOR SHALL SUBMIT THE DESIGN, LOCATION AND SIZING OF THE CONCRETE WASHOUT AREA(S) WITH THE PROJECT'S EROSION AND SEDIMENTATION CONTROL PLAN AND SHALL BE APPROVED BY THE ENGINEER.
3. SURFACE DISCHARGE IS UNACCEPTABLE. THEREFORE, HAY BALES OR OTHER CONTROL MEASURES, AS APPROVED BY THE ENGINEER, SHOULD BE USED AROUND THE PERIMETER OF THE CONCRETE WASHOUT AREA FOR CONTAINMENT.
4. LOCATION: WASHOUT AREA(S) ARE TO BE LOCATED AT LEAST 50 FEET FROM ANY STREAM, WETLAND, STORM DRAINS, OR OTHER SENSITIVE RESOURCE. THE CONCRETE WASHOUT SHALL NOT BE LOCATED WITHIN FLOODPLAIN.
5. SIGNS SHOULD BE PLACED AT THE CONSTRUCTION ENTRANCE, AT THE CONCRETE AREA(S) AND ELSEWHERE AS NECESSARY TO CLEARLY INDICATE THE LOCATION OF THE WASHOUT TO OPERATORS OF CONCRETE TRUCKS AND PUMP RIGS. WASHOUT AREA(S) SHOULD BE FLAGGED WITH SAFETY FENCING OR OTHER APPROVED METHOD, AS NECESSARY.
6. WASHOUT AREA(S) ARE TO BE INSPECTED AT LEAST ONCE A WEEK FOR STRUCTURAL INTEGRITY, ADEQUATE HOLDING CAPACITY AND CHECKED FOR LEAKS, TEARS, OR OVERFLOWS. (AS REQUIRED BY THE CONSTRUCTION SITE ENVIRONMENTAL INSPECTION REPORT) WASHOUT AREA(S) SHOULD BE CHECKED AFTER HEAVY RAINS.
7. HARDENED CONCRETE WASTE SHOULD BE REMOVED AND DISPOSED OF WHEN THE WASTE HAS ACCUMULATED TO HALF OF THE CONCRETE WASHOUT'S HEIGHT. THE WASTE CAN BE STORED AT AN UPLAND LOCATION, AS APPROVED BY THE ENGINEER. ALL CONCRETE WASTE SHALL BE DISPOSED OF IN A MANNER CONSISTENT WITH ALL APPLICABLE LAWS, REGULATIONS, AND GUIDELINES.
8. PAYMENT FOR THIS ITEM IS TO BE INCLUDED UNDER THE GENERAL COST OF THE WORK FOR THE PROJECT, INCLUDING SITE RESTORATION.
9. CONCRETE WASHOUT AREA(S) ARE TO BE REMOVED UPON COMPLETION OF THE JOB AND THE AREA RESTORED TO PREVIOUS SITE CONDITIONS, IN-KIND.

PIPE $\phi$	"D"	"E"	"F"	SYD
12"	5'-0"	6'-6"	3'-0"	3.7
15"	5'-0"	7'-0"	3'-0"	4.1
18"	5'-0"	7'-6"	3'-6"	4.3
21"	5'-6"	8'-0"	4'-0"	5.4
24"	6'-0"	8'-6"	4'-6"	6.3
27"	6'-6"	9'-0"	5'-0"	7.3
30"	7'-0"	9'-9"	5'-6"	8.4
36"	8'-0"	10'-9"	6'-0"	10.3
42"	9'-0"	11'-9"	6'-6"	12.0
48"	10'-0"	13'-0"	7'-0"	14.2
54"	11'-0"	13'-6"	7'-6"	15.9
60"	12'-0"	14'-0"	8'-0"	17.6

	<b>CITY OF LIVONIA</b> Department of Public Works, Engineering Division Livonia, Michigan 48154 (734) 466-2570, (734) 466-2195 Fax	<b>SOIL EROSION &amp; SEDIMENTATION CONTROL</b>		→
		<b>Standard Detail Sheet</b>		
		JOB No.	JOB: Y 212/2003	
		REVISIONS:	REV. DATE	
		Responsibility: <i>WJA</i>	SHEET # 1 OF 1	
		Checked: <i>DSD</i>	CADD: <i>dl</i>	
Maint. Inv. <i>EJM</i>	2/2003	DSO: <i>tz</i>		
	3/2013	Scale: <i>As Shown</i>		
		Tech: _____		
		Soil Profile: <i>Typical</i>		

## SOIL EROSION SEQUENCE OF CONSTRUCTION

1. INSTALL SILT FENCE, MUD MAT AND INLET FILTERS ON EXISTING CATCH BASINS. ESTIMATED DATE: 06/2025
2. DEMOLISH THE SITE PER THE PLANS. ESTIMATED DATE: 06/2025 THRU 09/2025
3. CONSTRUCT SITE FEATURES PER THE PLANS. ESTIMATED DATE: 06/2025 TO 09/2025
4. STABILIZE DISTURBED AREAS AS NOTED ON THE PLANS WITHIN 5 DAYS OF FINAL GRADING. ESTIMATED DATE: 09/2025
5. RESTORE ALL OFF-SITE AREAS TO PRE-CONSTRUCTION CONDITION FOLLOWING SITE CONSTRUCTION.
6. CLEAN PAVEMENT AND SEWERS AS NECESSARY (SCRAPE DAILY, SWEEP MIN. 1 PER WEEK), A CERTIFIED STORM WATER OPERATOR SHALL INSPECT ALL SESC MEASURES ON A WEEKLY BASIS AND AFTER SIGNIFICANT RAIN EVENTS TO ENSURE THE SESC MEASURES ARE ADEQUATE.
7. REMOVE ALL TEMPORARY EROSION AND SEDIMENTATION CONTROLS FOLLOWING SITE CONSTRUCTION, FINAL STABILIZATION OF WORK, AND FINAL INSPECTION. ESTIMATED DATE: 09/2025

### MAINTENANCE NOTES

THE CONTRACTOR SHALL INSPECT SOIL EROSION AND SEDIMENTATION CONTROL DEVICES WEEKLY AND WITHIN 24 HOURS OF A SIGNIFICANT RAIN EVENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE SOIL EROSION AND SEDIMENTATION CONTROL DEVICES.

MAINTENANCE INCLUDES ALL WORK NECESSARY FOR PROPER OPERATION OF THE DEVICES. DEVICES WHICH CAN NOT BE REPAIRED SHALL BE REPLACED. MAINTENANCE OF THE DEVICES SHALL BE PERFORMED WITHIN 24 HOURS OF INSPECTION.

SEDIMENT SHALL BE REMOVED AS NECESSARY TO MAINTAIN THE EFFECTIVENESS OF SOIL EROSION AND SEDIMENTATION CONTROL DEVICES.

SEDIMENT DEPOSITED ALONG SILT FENCE SHALL BE REMOVED WHEN IT REACHES 1/3 TO 1/2 THE HEIGHT OF THE FENCE AND PRIOR TO REMOVAL AT THE END OF THE PROJECT OR TIME OF FINAL REMOVAL.

TURF ESTABLISHMENT MEASURES SHALL BE MAINTAINED AS WOULD ANY OTHER DEVICES PRIOR TO ESTABLISHMENT OF PERMANENT TURF.

ALL MUD, DIRT AND DEBRIS TRACKED ONTO EXISTING ROADS FROM THIS SITE SHALL BE PROMPTLY REMOVED BY THE CONTRACTOR.

## TEMPORARY FACILITIES

THE CONTRACTOR SHALL CONSTRUCT THIS PROJECT IN COMPLIANCE WITH PART 91 OF ACT NO. 451 OF 1994, OF THE MICHIGAN COMPILED LAWS ENTITLED "SOIL EROSION AND SEDIMENTATION CONTROL" UNDER THE CONTROL OF THE LOCAL PERMIT AGENCY CHARGED WITH ADMINISTERING THE PROVISIONS OF THIS ACT. THE CONTRACTOR SHALL FOLLOW THE PROCEDURES DELINEATED BELOW AND IN THE PROJECT SPECIFICATIONS AND CONSTRUCT AND MAINTAIN THE FACILITIES SHOWN ON THE DRAWINGS TO CONTROL WATER AND WIND EROSION DURING CONSTRUCTION OF THIS PROJECT.

ALL DISTURBED SURFACE AREA (INCLUDING UTILITY TRENCHES) SHALL BE TEMPORARILY GRADED AND/OR DITCHED TO DIRECT ALL WATER RUNOFF FROM SUCH AREAS TO SEDIMENTATION CONTROL DEVICES WHICH WILL PREVENT WATER CARRYING ERODED SOIL FROM ENTERING A WATERCOURSE, SEWER, ADJACENT LANDS, AND ROADWAYS. SUCH SEDIMENTATION CONTROL DEVICES SHALL INCLUDE BUT NOT BE LIMITED TO, PROTECTIVE DITCHES, SEDIMENT TRAPS, SEDIMENT FILTERS, DITCH TRAPS, PILE BARRIERS, AND FILTERS AS DETAILED AND REQUIRED AND WHERE INDICATED ON THE DRAWINGS. AFTER THE DISTURBED AREA HAS BEEN RESTORED TO ITS ORIGINAL OR APPROXIMATE CONDITION, THE CONTRACTOR SHALL REMOVE ALL SEDIMENTATION CONTROL DEVICES, MATERIAL, AND THEIR COLLECTED SILT AND DEBRIS AND RESTORE THE AREA IN ACCORDANCE WITH THE DRAWINGS.

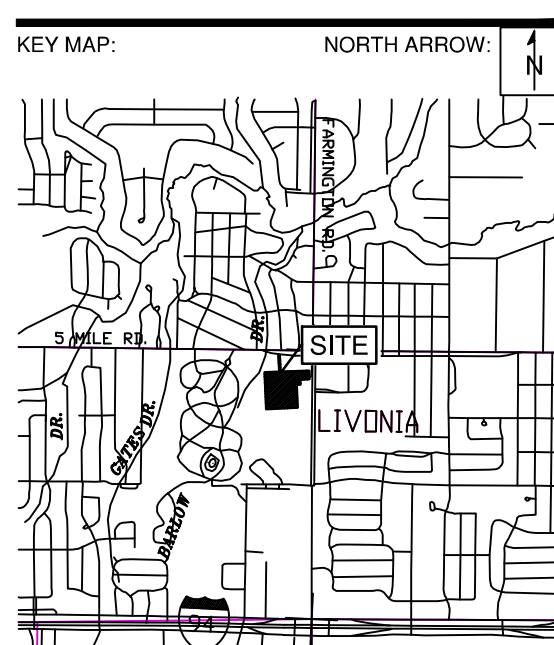
TEMPORARY AGGREGATE SURFACING SHALL BE PLACED IN ROADWAY AREAS IMMEDIATELY AFTER THE BACKFILLING OPERATION HAS BEEN COMPLETED. POSITIVE DUST CONTROL MEASURES SHALL BE TAKEN AT ALL TIMES.

PERMANENT STABILIZATION SHALL BE COMPLETED WITHIN 5 DAYS OF FINAL EARTH CHANGE. FINAL CLEANUP AND RESTORATION WILL CONSIST OF FINAL GRADING, TOPSOILING, SEEDING AND MULCHING AND/OR SODDING OF ALL DISTURBED AREAS OF THE PROJECT.

IF SEASONAL CONDITIONS PREVENT FINAL CLEANING AND RESTORATION, THE CONTRACTOR SHALL PROCEED WITH TEMPORARY STABILIZATION OF THE DISTURBED AREA. TEMPORARY STABILIZATION SHALL CONSIST OF ROUGH GRADING THE DISTURBED AREA IN ACCORDANCE WITH THESE SPECIFICATIONS AND INSTALLING THE SPECIFIED SOIL EROSION AND SEDIMENTATION CONTROL DEVICES. TEMPORARY STABILIZATION MATERIALS SHALL BE REMOVED AND DISPOSED OF AND FINAL CLEANUP AND RESTORATION SHALL BE COMPLETED NOT LATER THAN 5 DAYS AFTER SEASONAL CONDITIONS ALLOW PERFORMANCE OF THE REQUIRED WORK.



SEAL/STAMP:



REVISION BLOCK	
REV	DATE: DESCRIPTION

PROJECT NAME:

LIVONIA PUBLIC SCHOOLS  
2025 PAVING PROGRAM-  
CENTRAL OFFICE PHASE 2

PROJECT LOCATION:

15125 FARMINGTON ROAD  
LIVONIA, MICHIGAN 48150

DESIGNED BY: KBH	NTH PROJECT NO.: 23001951
DRAWN BY: KBH	SHEET SIZE: ARCH D (24"x36")
CHECKED BY: DRL	DATE: 1/31/2025
CAD FILE NAME:	

SHEET TITLE:

## SOIL EROSION AND SEDIMENTATION CONTROL STANDARD DETAILS

SHEET NUMBER:

**C-104**

**BID**





### LEGEND

	EXISTING PROPERTY BOUNDARY
	EXISTING BUILDING
	EXISTING CONTOURS
	EXISTING ASPHALT PAVEMENT
	EXISTING CONCRETE PAVEMENT
	EXISTING LANDSCAPING/LAWN AREA
	EXISTING FENCE
	EXISTING GUARDRAIL
	EXISTING BOLLARD POST
	EXISTING ELECTRICAL OVERHEAD
	EXISTING LIGHT POLE
	EXISTING STORM CATCH BASIN
	EXISTING STORM MANHOLE
	EXISTING SANITARY STRUCTURE
	EXISTING UNKNOWN UTILITY MANHOLE
	EXISTING HYDRANT
	PROPOSED CONTOURS
	PROPOSED SLOPE ARROW
	PROPOSED SPOT ELEVATION
	EXISTING SPOT ELEVATION
	EXISTING RIM SPOT ELEVATION
	PROPOSED ASPHALT PAVEMENT (STANDARD-DUTY)
	PROPOSED ASPHALT PAVEMENT (HEAVY-DUTY)
	PROPOSED CONCRETE PAVEMENT
	PROPOSED TRAFFIC STRIPING
	MATCHLINE

### DEMOLITION NOTES

- LANDSCAPING SHALL NOT BE REMOVED UNLESS SPECIFIED ON PLANS. CONTRACTOR SHALL PROTECT AS NECESSARY DURING DURATION OF CONSTRUCTION.
- LOCATION OF UTILITIES OR OTHER STRUCTURES SHOWN ON PLANS ARE TAKEN FROM SURVEY OF RECORD. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR ANY OMISSIONS OR VARIATIONS. THE CONTRACTOR SHALL CONTACT MISS DIG A MINIMUM OF THREE WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION IN THE AREA OF WORK AND SHALL VERIFY ALL UNDERGROUND UTILITIES ON-SITE, PRIOR TO CONSTRUCTION.
- UTILITIES AND ASSOCIATED STRUCTURES SHALL NOT BE REMOVED UNLESS SPECIFIED ON PLANS. CONTRACTOR SHALL FIELD VERIFY AND PROTECT ALL EXISTING UTILITY STRUCTURES AN SEWERAGE DURING THE DURATION OF CONSTRUCTION. PROVIDE FOR TEMPORARY BYPASS OF SEWERAGE AS REQUIRED TO FACILITATE CONSTRUCTION.
- ALL STORM AND SANITARY SEWERAGE AND ASSOCIATED STRUCTURES SHALL BE CLEANED AND OPERABLE PRIOR TO CONSTRUCTION AND AGAIN AFTER CONSTRUCTION IS COMPLETE. CONTRACTOR SHALL PROVIDE A LETTER DETAILING THAT ALL STORM AND SANITARY STRUCTURES AND SEWERS HAVE BEEN CLEANED AND ARE FREE FLOWING.
- ALL EXISTING ASPHALT TO BE REMOVED SHALL BE MILLED AND TRANSPORTED OFF-SITE TO LOCATIONS SUITABLE FOR PROPER DISPOSAL IN ACCORDANCE WITH ALL APPLICABLE ENVIRONMENTAL REGULATIONS.
- ALL EXCESS MATERIALS ARE TO BE REMOVED FROM THE SITE AND DISPOSED OF IN COMPLIANCE WITH APPLICABLE ENVIRONMENTAL REGULATIONS.
- ALL EXISTING SIGNAGE SHALL BE PROTECTED UNLESS OTHERWISE INDICATED ON PLANS.
- AT LEAST ONE ENTRY AND EXIT TO PARKING LOTS TO REMAIN OPEN DURING CONSTRUCTION AT ALL TIMES.

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YOUR CODES FOR UTILITY LOCATING:

Yellow	Oil & Gas	Blue	Water
Orange	Phone & Cable	Green	Storm Drain
Red	Electric	Brown	Sewer
		Pink	Surfing

IF YOU ARE GOING TO WORK NEAR OVERHEAD WIRES - CALL MISS DIG

SEAL/STAMP:

KEY MAP:    NORTH ARROW:

REVISION BLOCK	
REV	DATE: DESCRIPTION

SUBMITTAL LOG	
DATE	PACKAGE NAME

PROJECT NAME:  
**LIVONIA PUBLIC SCHOOLS  
2025 PAVING PROGRAM-  
CENTRAL OFFICE PHASE 2**

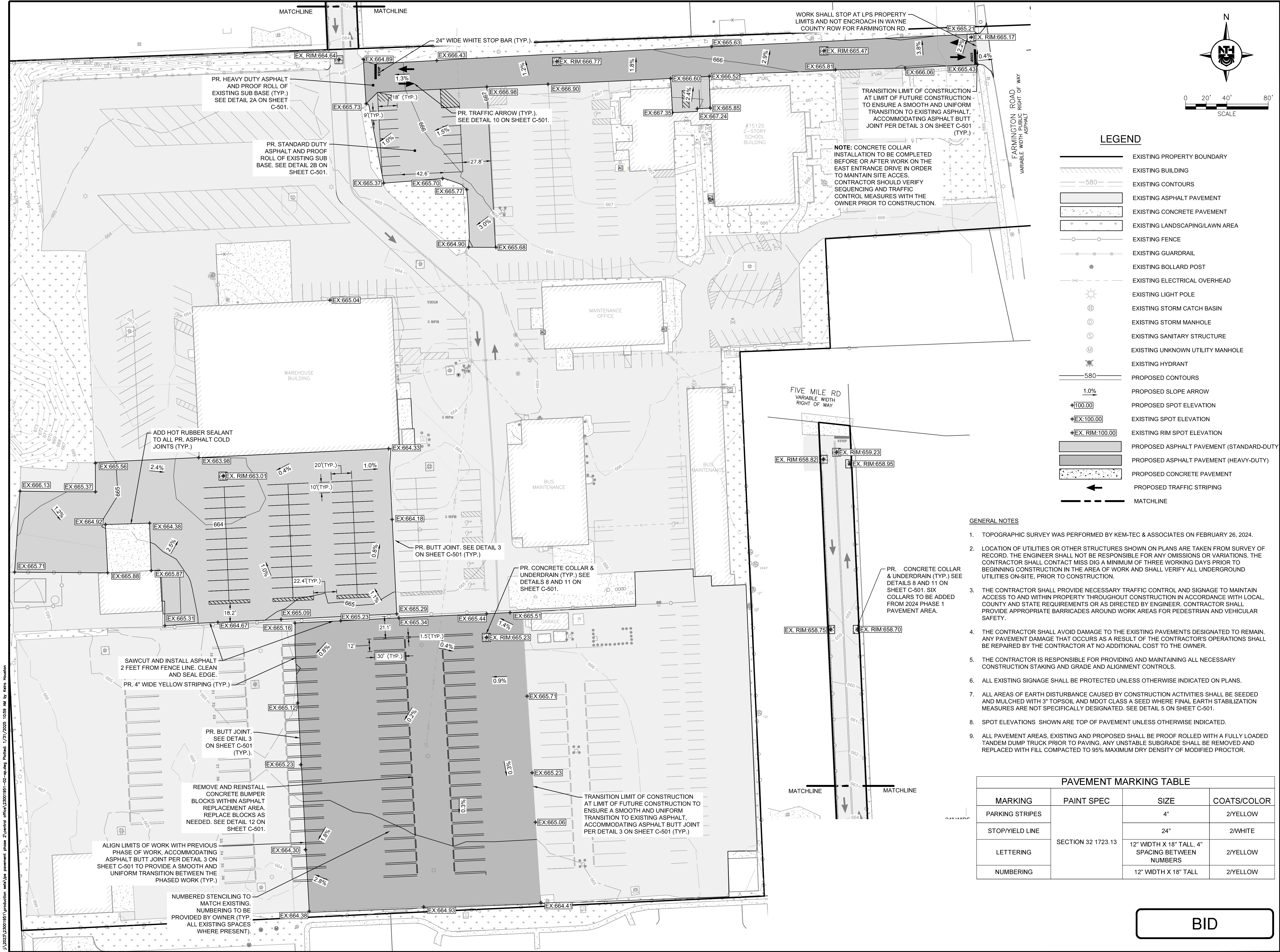
PROJECT LOCATION:  
**15125 FARMINGTON ROAD  
LIVONIA, MICHIGAN 48150**

DESIGNED BY: KBH	NTH PROJECT NO.: 23001951
DRAWN BY: KBH	SHEET SIZE: ARCH D (24"x36")
CHECKED BY: DRL	DATE: 1/31/2025
CAD FILE NAME:	

SHEET TITLE:  
**DEMOLITION PLAN**

SHEET NUMBER:  
**C-105**





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Electric   Yellow   Gas  
If you are going to work near overhead wires - call MISS DIG

**LIVONIA PUBLIC SCHOOLS**

SEAL/STAMP:

KEY MAP:   NORTH ARROW:

REVISION BLOCK

REV	DATE	DESCRIPTION

SUBMITTAL LOG

DATE	PACKAGE NAME

PROJECT NAME:  
**LIVONIA PUBLIC SCHOOLS  
2025 PAVING PROGRAM-  
CENTRAL OFFICE PHASE 2**

PROJECT LOCATION:  
**15125 FARMINGTON ROAD  
LIVONIA, MICHIGAN 48150**

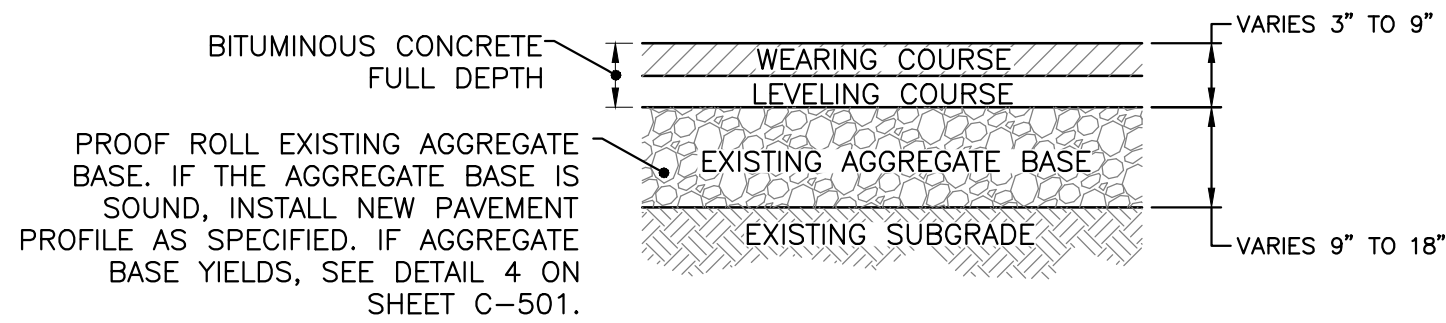
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DRAWN BY: KBH   SHEET SIZE: ARCH D (24"x36")  
CHECKED BY: DRL   DATE: 1/31/2025  
CAD FILE NAME:  

SHEET TITLE:  
**PROPOSED SITE AND  
GRADING PLAN**

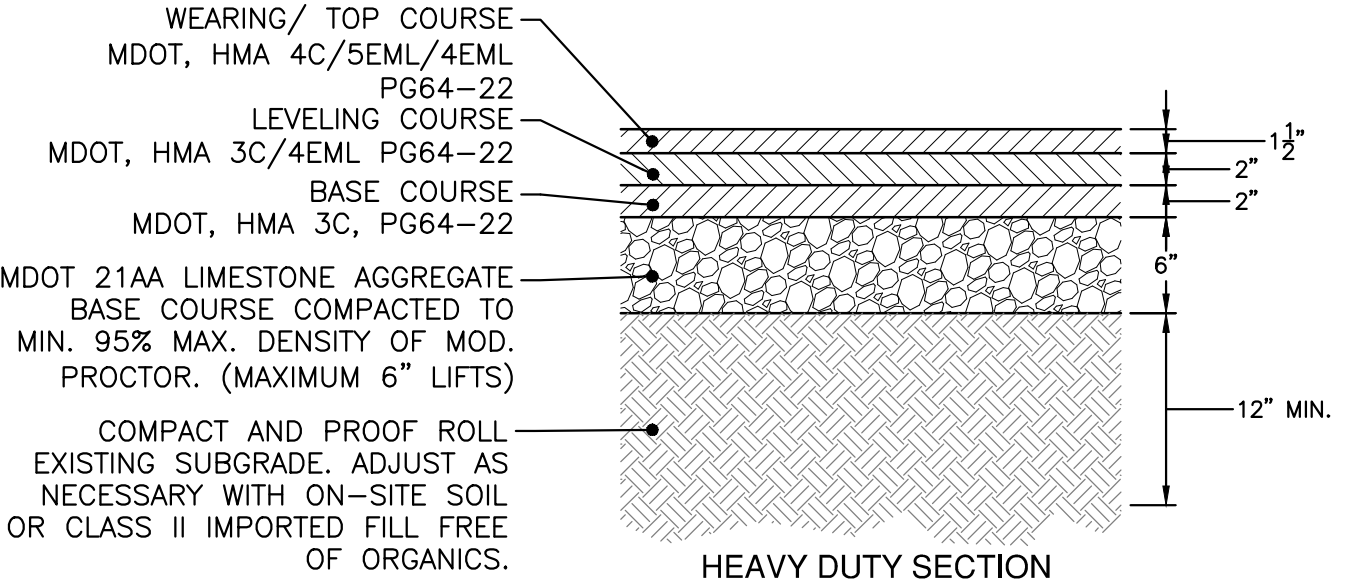
SHEET NUMBER:  
**C-106**



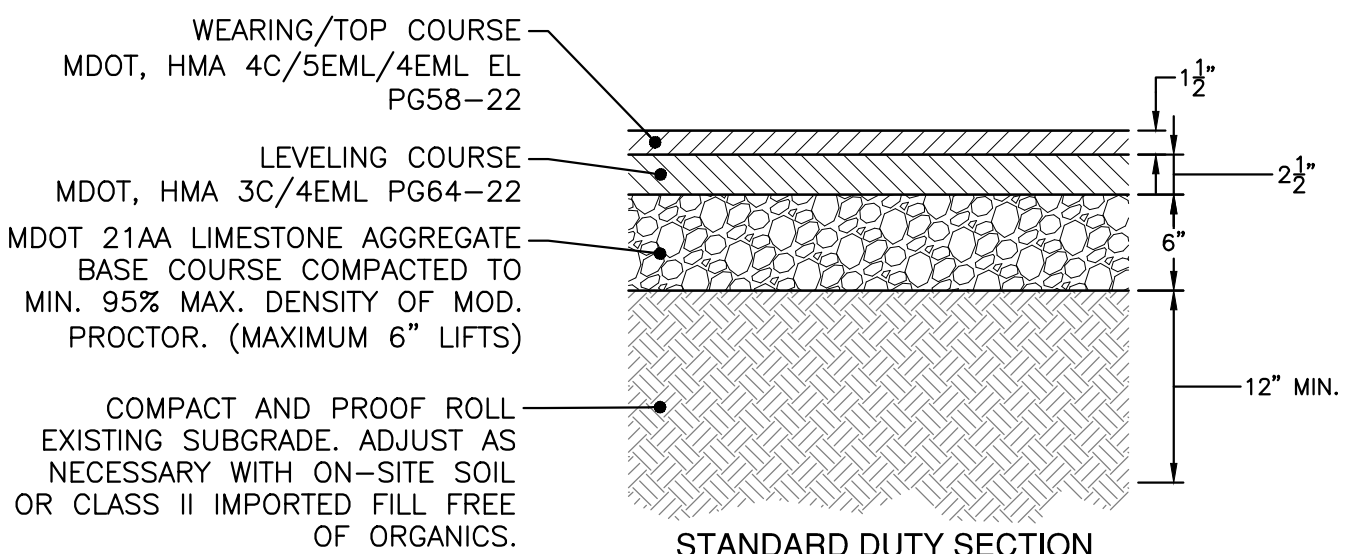
J:\2023\23001951\production\sheet\pave\pave.dwg Plot Date: 1/31/2025 11:00 AM by Kera Houston



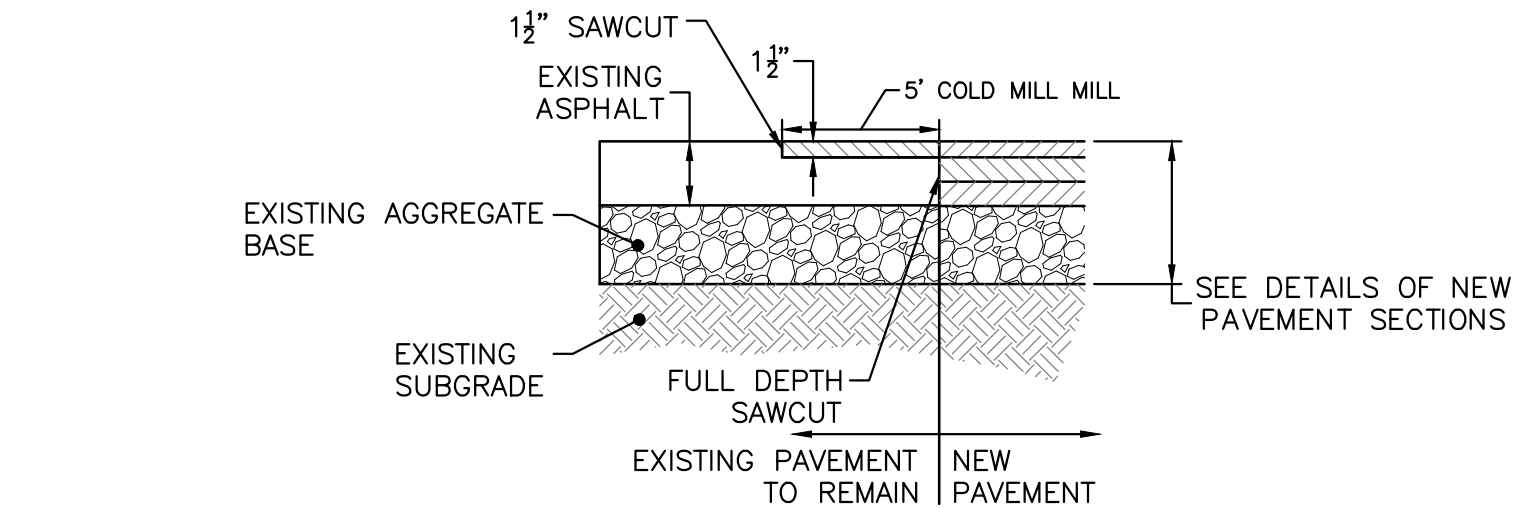
1 FULL DEPTH ASPHALT REMOVAL DETAIL  
NOT TO SCALE



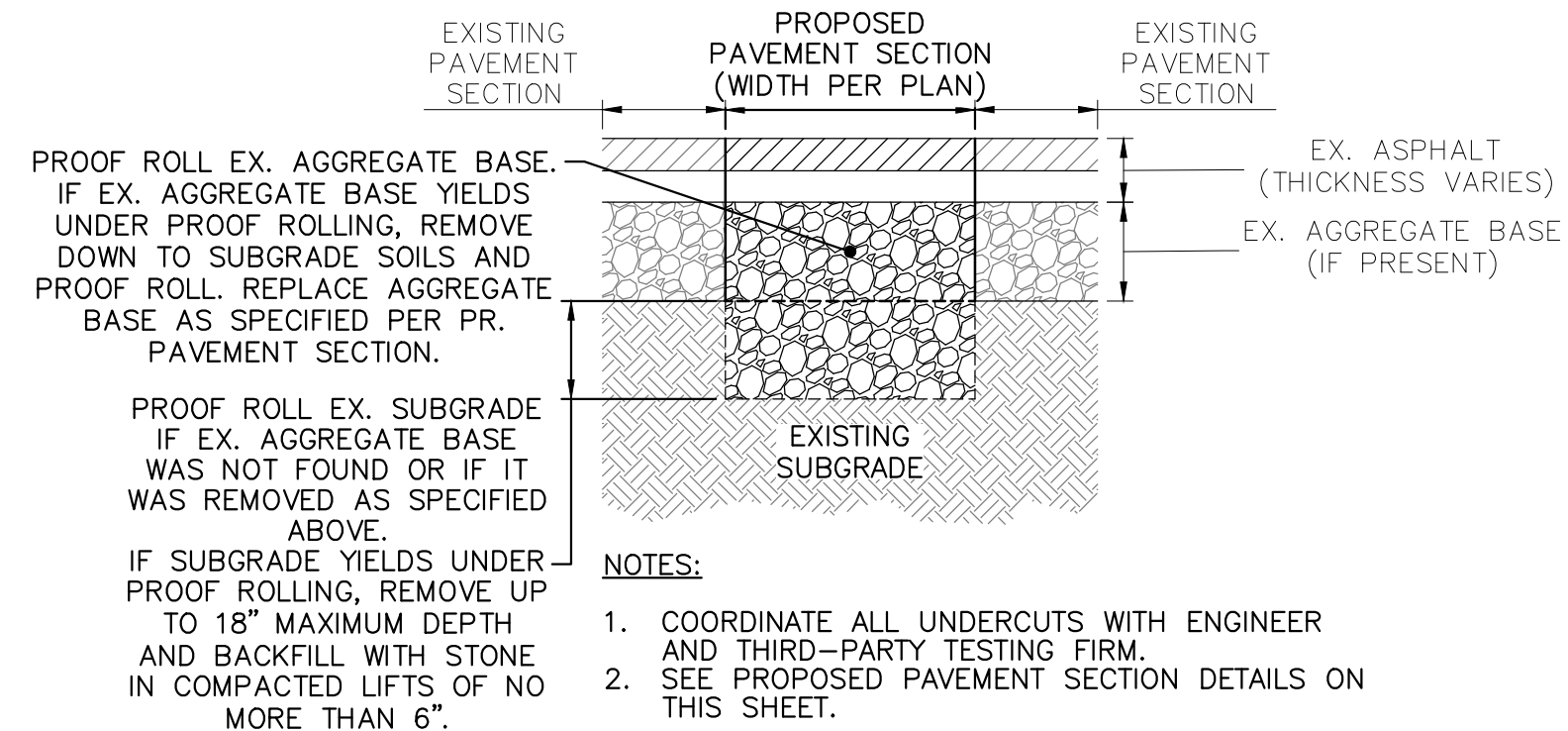
2A HEAVY DUTY ASPHALT PAVEMENT DETAIL  
NOT TO SCALE



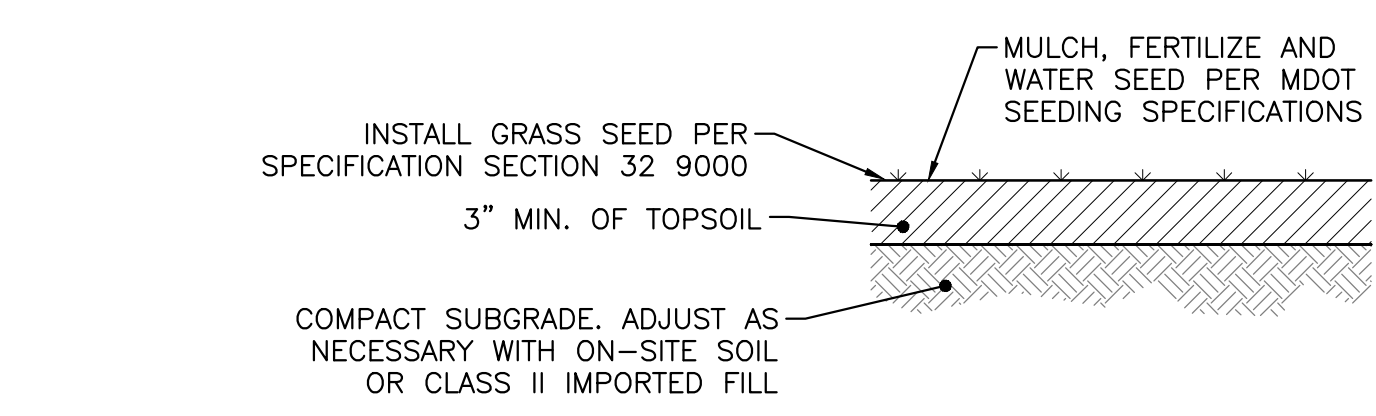
2B ASPHALT PAVEMENT DETAIL  
NOT TO SCALE



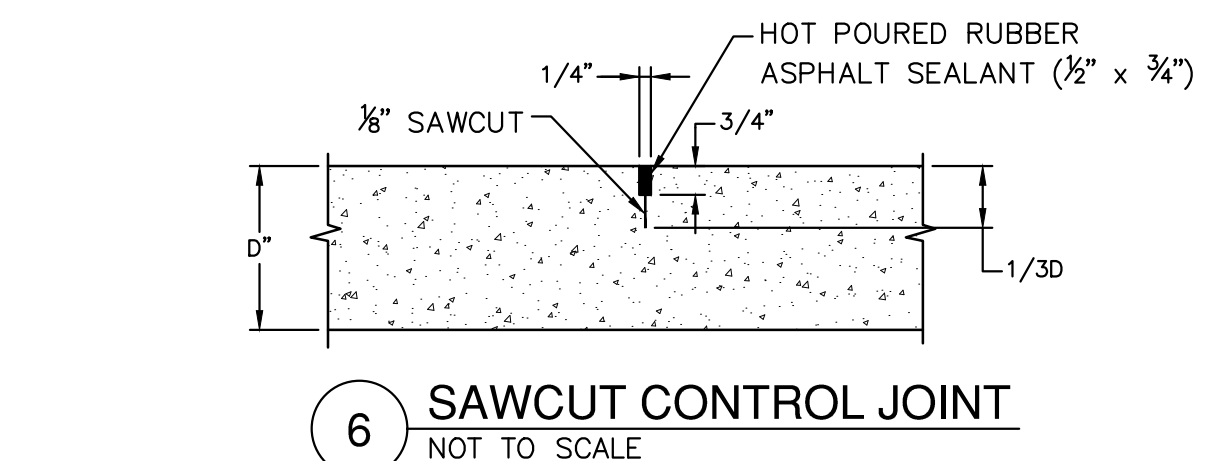
3 BUTT JOINT  
NOT TO SCALE



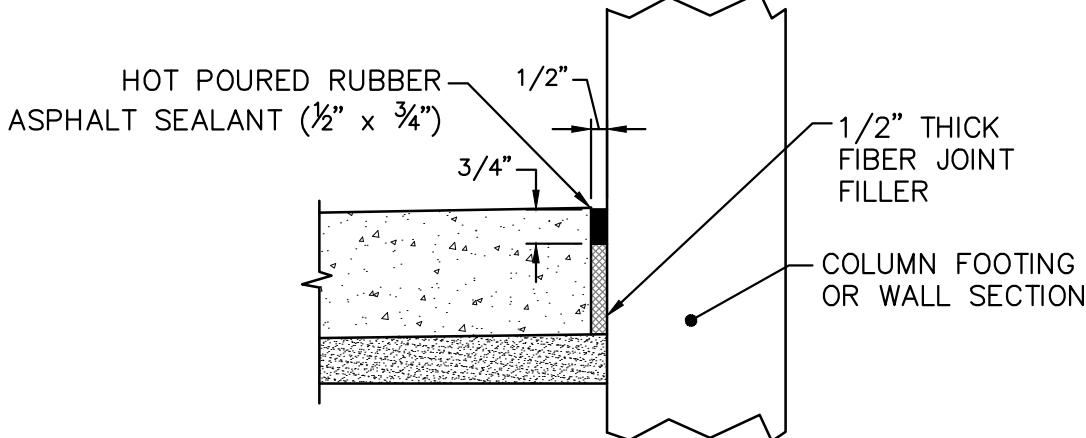
4 UNDERCUT DETAIL  
NOT TO SCALE



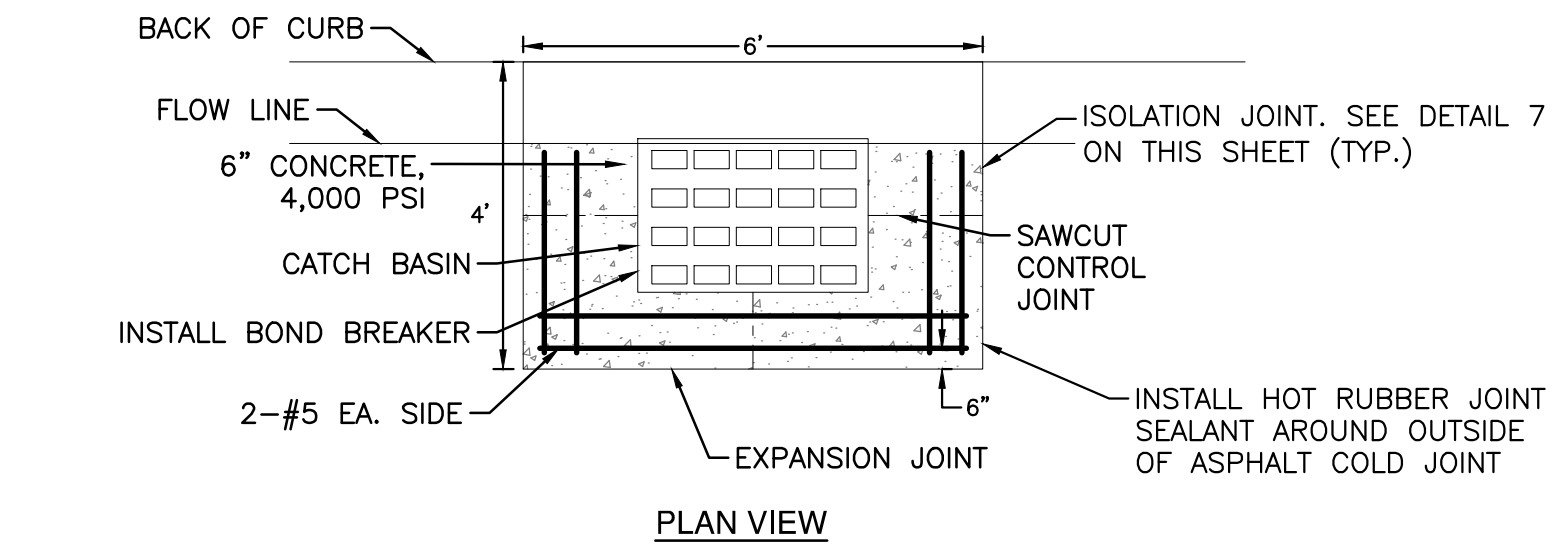
5 LANDSCAPE RESTORATION DETAIL  
NOT TO SCALE



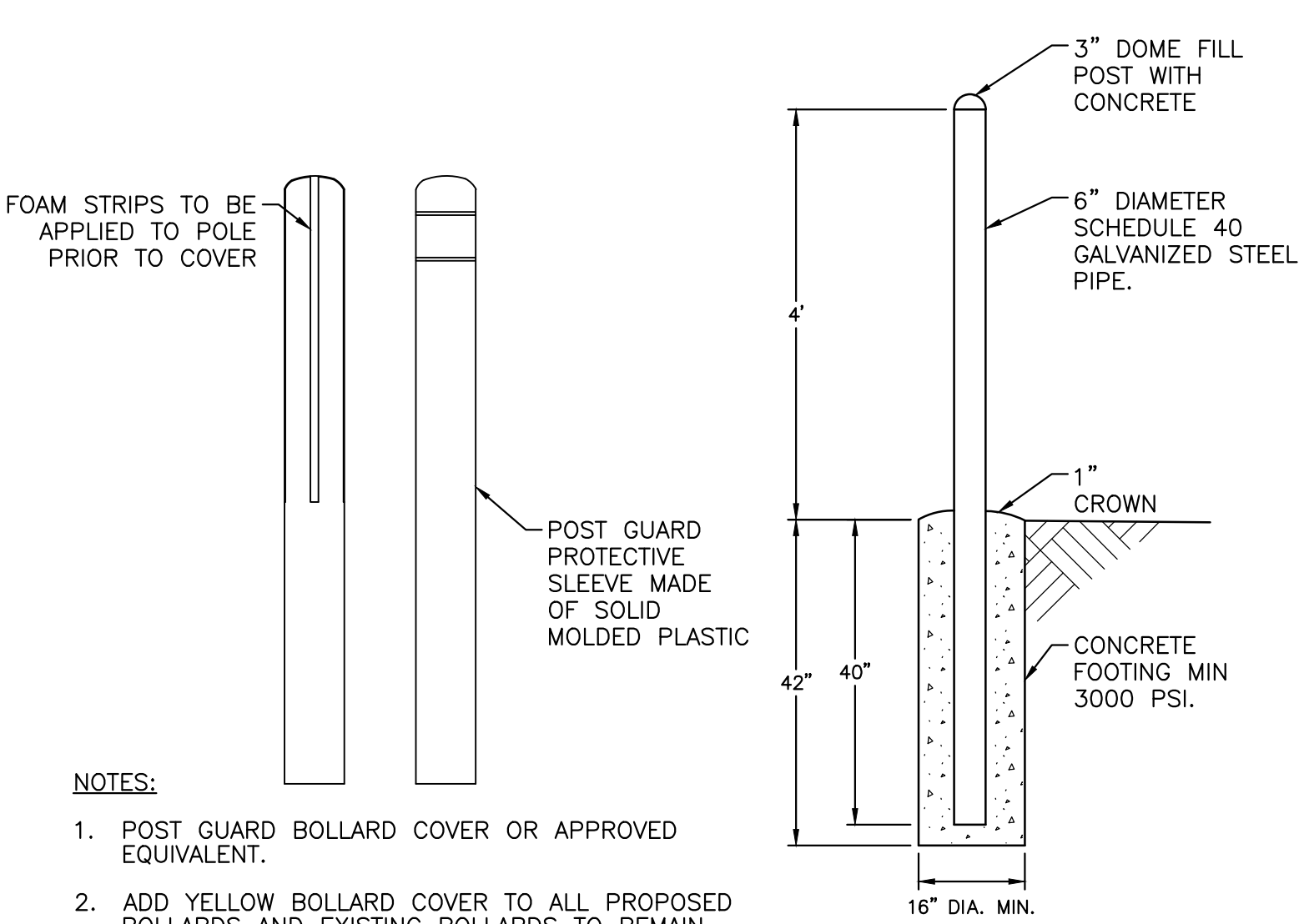
6 SAWCUT CONTROL JOINT  
NOT TO SCALE



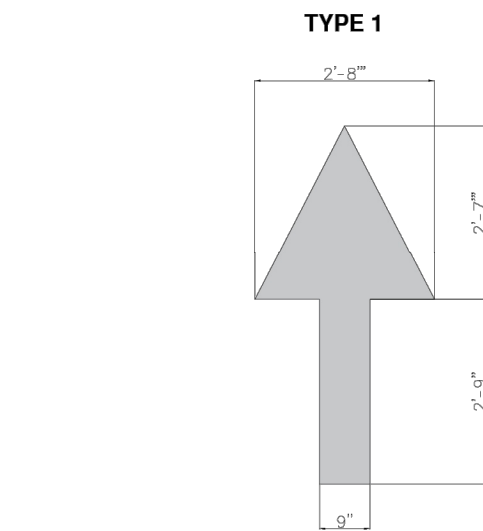
7 ISOLATION JOINT-STRUCTURE  
NOT TO SCALE



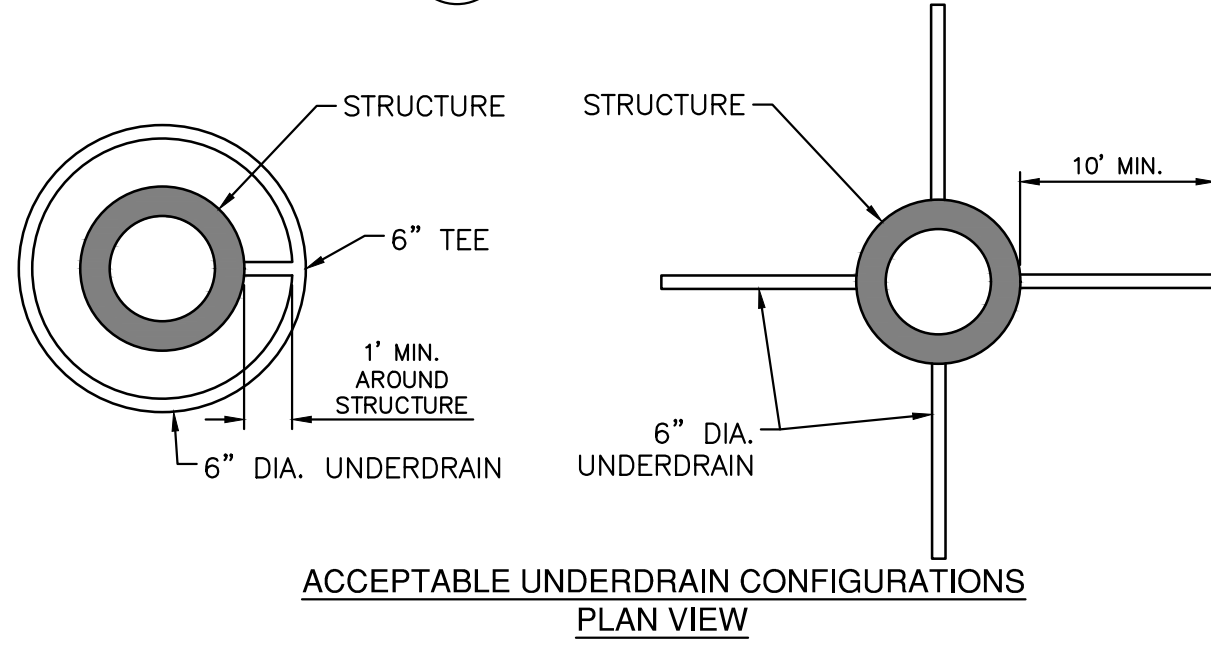
8 CONCRETE BOXOUT  
NOT TO SCALE



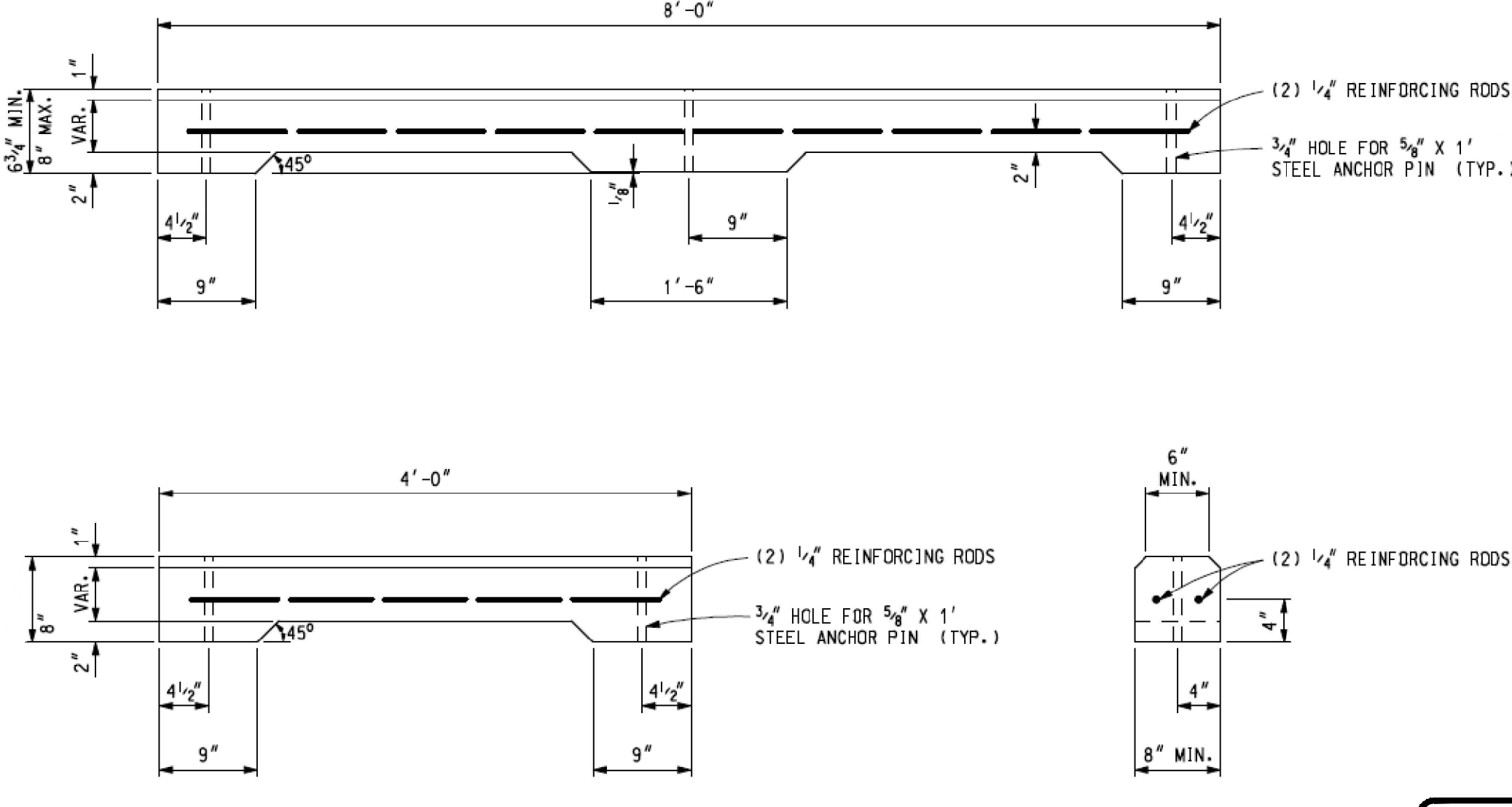
9 BOLLARD AND SLEEVE  
NOT TO SCALE



10 ARROW STRIPING DETAIL  
NOT TO SCALE



11 STRUCTURE UNDERDRAIN  
NOT TO SCALE



12 CONCRETE PARKING BARRICADE  
NOT TO SCALE

- NOTES:
1. DETAIL FROM MDOT ROAD AND BRIDGE STANDARDS R-74-D.
  2. CONCRETE PARKING RAIL SHALL BE CONSTRUCTED IN 8'-0" LENGTHS UNLESS OTHERWISE INDICATED ON THE PLANS.
  3. THIS DETAIL INCLUDES STAINLESS STEEL ANCHOR PINS TO FASTEN INTO CONCRETE PAVEMENT (4" MIN. EMBED; 6" MAX. EMBED).
  4. PARKING BARRICADE SHALL BE PAINTED YELLOW.

BID



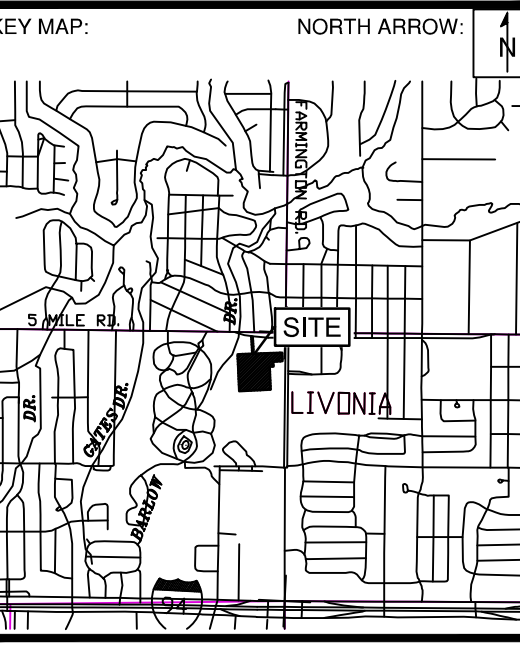
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REVISION BLOCK	
REV	DATE/DESCRIPTION

PROJECT NAME:  
**LIVONIA PUBLIC SCHOOLS  
2025 PAVING PROGRAM-  
CENTRAL OFFICE PHASE 2**

PROJECT LOCATION:  
**15125 FARMINGTON ROAD  
LIVONIA, MICHIGAN 48150**

DESIGNED BY: KBH	NTH PROJECT NO.: 23001951
DRAWN BY: KBH	SHEET SIZE: ARCH D (24"x36")
CHECKED BY: DRL	DATE: 1/31/2025

CAD FILE NAME:  
23001951-02-DET

SHEET TITLE:  
**CIVIL DETAILS**

SHEET NUMBER:

**C-501**