

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

°	CENTERLINE	FNDN	FOUNDATION	PVC	POINT OF TANGENCY
°	DEGREE OR DEGREES	FO	FIBER OPTIC	PVC	POLYVINYL CHLORIDE
Ø	DIAMETER	FT	FOOT OR FEET	PVMT	PAVEMENT
"	FOOT, FEET	FTG	FOOTING	P	PNEUMATIC PIEZOMETER
"	INCH, INCHES	FWY	FREEWAY		
#	NUMBER OR POUND	G		R	
±	PLUS OR MINUS	GA	GAUGE	RPC	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	GRADE VALVE	RTNG	RETAINING
ASTM	AMERICAN STANDARDS AND TESTING MATERIALS	GW&W	GATE VALVE AND WELL		
AVG	AVERAGE	GW	GATE WELL	S	
		H		S	SOUTH
B		H	HIGH/HORIZONTAL	SAN	SANITARY
B		HGL	HYDRAULIC GRADE LINE	SB	SOIL BORING
BIT	BITUMINOUS	HOR	HORIZONTAL	SC	SHEAR CONNECTOR/
BLDG	BUILDING	HP	HIGH PRESSURE	SECH	SCHEDULE
BM	BENCHMARK	HT	HEIGHT	S	SOUTHEAST
B.O.	BLOW OFF	I		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	SH	SHEET
BRKT	BRACKET	I.E.	INVERT ELEVATION	SH	SIMILAR
BSMT	BASEMENT	IN	INCH(ES)	SMA	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	L		STA	STATION
CFS	CUBIC FEET PER SECOND	L		STD	STANDARD
CIP	CAST IRON	L	LENGTH/LONG	STIFF	STIFFENER
CJ	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		SW	SOUTHWEST
CNJ	CONSTRUCTION JOINT	m	METER	S/W	SIDEWALK
CO	CLEAN OUT	MAS	MASONRY	SWM	STORMWATER MANAGEMENT
COL	COLUMN	MATL	MATERIAL	S	SQUARE YARDS
CONC	CONCRETE	MAX	MAXIMUM	T	
CONT	CONTINUOUS	MDOT	MICHIGAN DEPARTMENT OF TRANSPORTATION	T	
CONST	CONSTRUCTION	MECH	MECHANICAL	TB	TEST BORING
COV	COVER	MJ	MANHOLE	T&B	TOP AND BOTTOM
CP	CAP PLATE	MJ	MECHANICAL JOINT	TC	TOP OF CONCRETE
CSO	COMBINED SEWER OUTFALL	MTD	MANUFACTURED TREATMENT DEVICE	TEMP	TEMPORARY
CTV	CABLE TELEVISION	MTL	METAL	THK	THICK OR THICKNESS
D		MIN	MINIMUM	TP	TURNING POINT
DET	DETAIL	mm	MILLIMETER	TO	TOP OF
DI	DUCTILE IRON	MW	MONITORING WELL	TOF	TOP OF FOUNDATION
DIA	DIAMETER			TOPO	TOPOGRAPHIC
DIA	DIAGONAL	N		TOS	TOP OF STEEL
DIM	DIMENSION	N	NORTH	TOW	TOP OF WALL
DIP	DUCTILE IRON PIPE	NB	NORTHBOUND	TYP	TYPICAL
DWG	DRAWING	NE	NORTHEAST	TPW	TOP OF WALL
DWL	DOWELS	NIC	NOT IN CONTRACT	TYP.	TYPICAL
		NO	NUMBER		
E		NTS	NOT TO SCALE	U	
EA	EAST	NW	NORTHWEST	UNO	UNLESS NOTED OTHERWISE
EGL	ENERGY GRADE LINE	O		V	
EJ	EXPANSION JOINT	O.C.	ON CENTER	V	VERTICAL
EJWW	EAST JORDAN IRON WORKS	O.D.	OUTERDIAMETER	VCP	VITREOUS CLAY PIPE
EL	ELEVATION	OPNG	OPENING	VERT	VERTICAL
ELEC	ELECTRICAL	OPP	OPPOSITE	VIF	VERIFY IN FIELD
ENG	ENGINEERED				
EX	EXISTING	P		W	
EXCAV	EXCAVATE(D)	PC	POINT OF CURVATURE	W	WEST
EXP	EXPANSION	PERM	PERMANENT	W/	WITH
		PL	PLATE	WD	WIDE
		P/L	PROPERTY LINE	WM	WATERMAIN
F		POB	POINT OF BEGINNING	WWF	WELDED WIRE FABRIC
FF	FINISH FLOOR	POE	POINT OF ENDING		
FG	FINISHED GRADE	PR	PROPOSED	Y	
FH	FIRE HYDRANT	PSF	POUNDS PER SQUARE FOOT	YR	YEAR
FL	FLOOR	PSI	POUNDS PER SQUARE INCH		
FM	FORCEMAIN	PT	POINT		

OWNER

Livonia Public Schools
15125 Farmington Road
Livonia, Michigan 48154

Contact: Harry Lau
Phone: 734-812-853

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

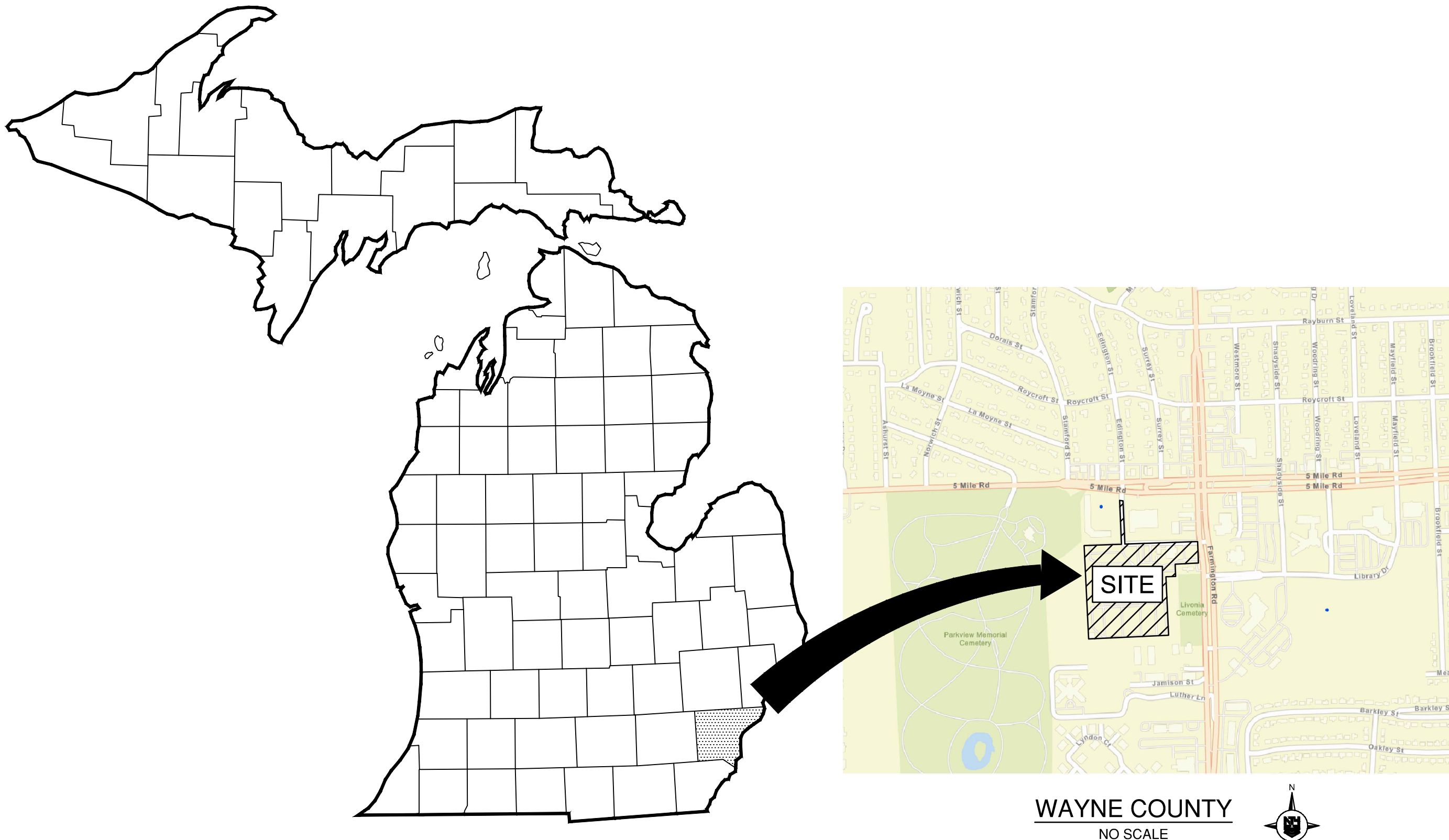
LIVONIA PUBLIC SCHOOLS 2025 PAVING PROGRAM - CENTRAL OFFICE
PHASE 2 CONSISTS OF PAVEMENT IMPROVEMENT AT THE LIVONIA
PUBLIC SCHOOLS CENTRAL OFFICE LOCATION, INCLUDING FULL-DEPTH
PAVEMENT REMOVAL AND GRADING, CRACK FILLING, AND RESEALING.
THE PROJECT SCOPE INCLUDES, BUT IS NOT LIMITED TO:

- 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

1. TOPOGRAPHIC SURVEY WAS PERFORMED BY KEM-TEC & ASSOCIATES ON FEBRUARY 26, 2024.
2. 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.
3. FULL-DEPTH REMOVAL IS DEFINED AS REMOVING 100 PERCENT OF THE BITUMINOUS AGGREGATE BASE 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 TO GREATER THAN 6-INCHES. INSTALL NEW PAVEMENT OVER THE STONE (AGGREGATE BASE AND BITUMINOUS CONCRETE SECTION) AT DIRECTION OF THIRD PARTY TESTING FIRM.
4. 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.
5. CONTRACTOR TO INSPECT ALL MANHOLE STRUCTURES DURING CONSTRUCTION AND INFORM THE OWNER OF ANY STRUCTURES IN POOR CONDITION.
6. 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 COUNT
NO SCALE



BULLETIN NO. 1

BID



NTH Consultants, Ltd.

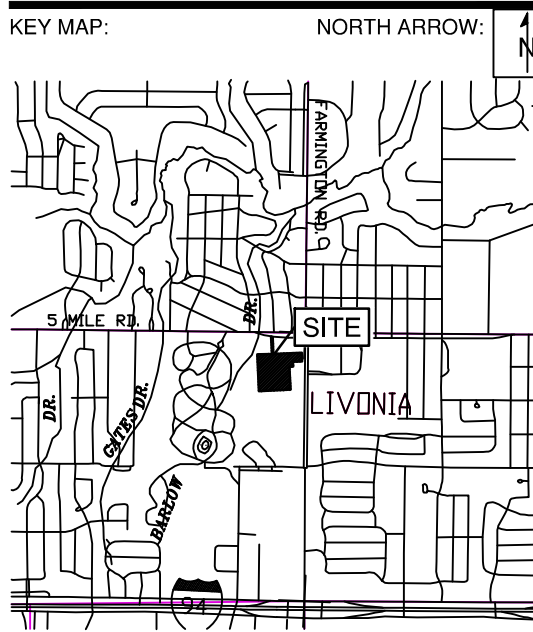
Infrastructure Engineering
Environmental Services
Facilities Engineering

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Northville, MI Lansing, MI
Detroit, MI Grand Rapids, MI
Livonia, MI (Laboratory)



SEAL/STAMP

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PROJECT NAME

LIVONIA PUBLIC SCHOOLS
2025 PAVING PROGRAM-
CENTRAL OFFICE PHASE 2

PROJECT LOCATION

15125 FARMINGTON ROAD
LIVONIA, MICHIGAN 48150

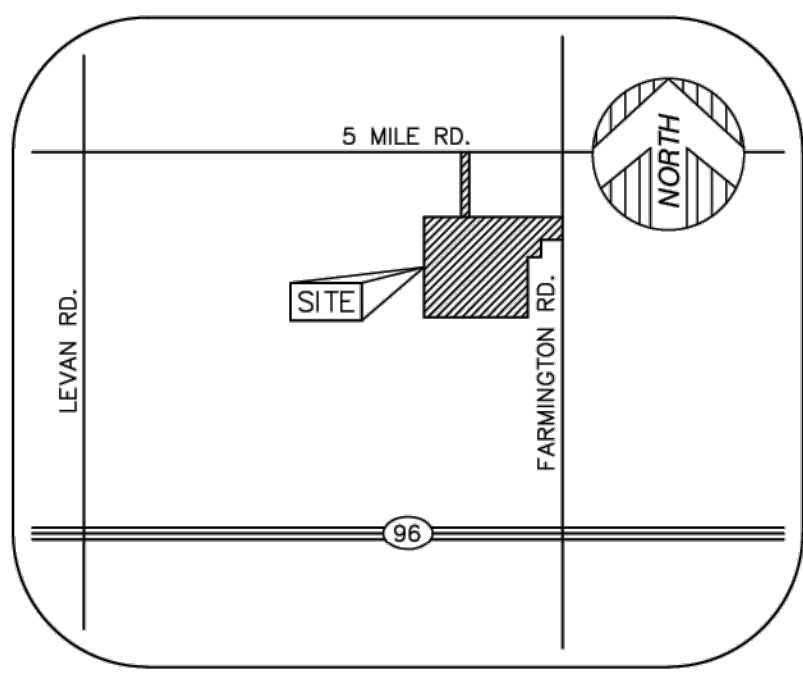
DESIGNED BY: KBH	NTH PROJECT NO.: 23001951
DRAWN BY: KBH	SHEET SIZE: ARCH D (24"x36")
CHECKED BY: DRL	DATE: 2/13/2025

CAD FILE NAME:
23001951-02-CO

SHEET TITLE:
COVER SHEET

SHEET NUMBER

C-100



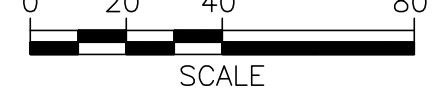
VICINITY MAP

(NOT TO SCALE)

MANHOLE SCHEDULE

LINE	TYPE	MANHOLE	SIZE (IN)	DIR	INV ELEV (FT)
10000	STORM	660.78	30	W	660.78
10001	STORM	660.79	30	W	660.79
10002	STORM	660.80	30	W	660.80
10003	STORM	660.81	30	W	660.81
10004	STORM	660.82	30	W	660.82
10005	STORM	660.83	30	W	660.83
10006	STORM	660.84	30	W	660.84
10007	STORM	660.85	30	W	660.85
10008	STORM	660.86	30	W	660.86
10009	STORM	660.87	30	W	660.87
10010	STORM	660.88	30	W	660.88
10011	STORM	660.89	30	W	660.89
10012	STORM	660.90	30	W	660.90
10013	STORM	660.91	30	W	660.91
10014	STORM	660.92	30	W	660.92
10015	STORM	660.93	30	W	660.93
10016	STORM	660.94	30	W	660.94
10017	STORM	660.95	30	W	660.95
10018	STORM	660.96	30	W	660.96
10019	STORM	660.97	30	W	660.97
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10021	STORM	660.99	30	W	660.99
10022	STORM	661.00	30	W	661.00
10023	STORM	661.01	30	W	661.01
10024	STORM	661.02	30	W	661.02
10025	STORM	661.03	30	W	661.03
10026	STORM	661.04	30	W	661.04
10027	STORM	661.05	30	W	661.05
10028	STORM	661.06	30	W	661.06
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10030	STORM	661.08	30	W	661.08
10031	STORM	661.09	30	W	661.09
10032	STORM	661.10	30	W	661.10
10033	STORM	661.11	30	W	661.11
10034	STORM	661.12	30	W	661.12
10035	STORM	661.13	30	W	661.13
10036	STORM	661.14	30	W	661.14
10037	STORM	661.15	30	W	661.15
10038	STORM	661.16	30	W	661.16
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10043	STORM	661.21	30	W	661.21
10044	STORM	661.22	30	W	661.22
10045	STORM	661.23	30	W	661.23
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10059	STORM	661.37	30	W	661.37
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10214	STORM	662.92	30	W	662.92
10215	STORM	662.93	30	W	662.93
10216	STORM	662.94	30	W	

PR. SILT FENCE. SEE
TAIL ON SHEET C-104.



LEGEND

- | | |
|--|--|
| | EXISTING PROPERTY BOUNDARY |
| | EXISTING BUILDING |
| | EXISTING CONTOURS |
| | EXISTING ASPHALT PAVEMENT |
| | EXISTING CONCRETE PAVEMENT |
| | EXISTING LANDSCAPING/LAWN AREA |
| | EXISTING FENCE |
| | EXISTING OVERHEAD 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 |

SOIL EROSION AND SEDIMENTATION CONTROL NOTES:

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

SUMMARY OF BASIC PRINCIPLES

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

THE PURPOSE OF THIS PLAN IS TO SPECIFY METHODS FOR TEMPORARY EROSION CONTROL DURING CONSTRUCTION. IT IS INTENDED THAT MEASURES CALLED FOR IN THE SPECIFICATIONS AND SHOWN ON THESE PLANS BE STRICTLY ADHERED TO. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ASSURE THAT CONSTRUCTION PROCEDURES UNDERTAKEN ARE IN CONFORMANCE WITH PART 91 OF ACT 451 OF 1994 THE STATE OF MICHIGAN'S SOIL EROSION AND SEDIMENTATION CONTROL ACT.

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.

ALL TEMPORARY EROSION CONTROL FACILITIES SHALL BE REMOVED BY THE CONTRACTOR AT THE COMPLETION OF CONSTRUCTION UNLESS ORDERED BY THE ENGINEER TO BE LEFT IN PLACE. CARE SHALL BE TAKEN DURING REMOVAL TO MINIMIZE SILTATION IN NEARBY DRAINAGE COURSES.

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.

BULLETIN NO. 1

BID



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SEAL/STAMP:



REVISION BLOCK	
REV	DATE: DESCRIPTION
	2025-02-13: REVISIONS TO PAVEMENT LIMITS PER PRE-BID WALKTHROUGH COMMENTS

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: 2/13/2025
CAD FILE NAME:	

SHEET TITLE:

SOIL EROSION AND
SEDIMENTATION
CONTROL PLAN

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


SILTSACK SEDIMENT
FILTER DETAIL

INLET FILTER DETAILS FOR SOIL EROSION & SEDIMENTATION CONTROL

STORM OUTLET DETAIL WITH
GROUTED STONE RIP-RAP

SOIL EROSION AND SEDIMENTATION CONTROL
MAINTENANCE SCHEDULE AND NOTES:

JOB No.		SHEET 1 OF 1	
REV. DATE		CADD BY	
REVISIONS		Responsibility Note	
2/2007 ESD 1z		Checked Date	
2/2007 ESD 1z		Draft Date	
2/2007 ESD 1z		Misc. Part List	
2/2007 ESD 1z		Scale	
2/2007 ESD 1z		Set Description	



CITY OF LIVONIA

Department of Public Works, Engineering Division
City of Livonia, Michigan 48154
(734) 466-2570, (734) 466-2195 Fax

SOIL EROSION & SEDIMENTATION CONTROL

Standard Detail Sheet

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, PIPE BANKS, AND FILTERS. THE LOCATION OF THE DEVICES INDICATED ON THE DRAWINGS AFTER THE PROJECT WORK HAS BEEN COMPLETED, INSPECTED, AND APPROVED, 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.

CONCRETE WASHOUT AREA

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 ϕ	"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

JOB No.	REV. DATE	DATE: 1/23/2003
REVISIONS:	5/2004	SHEET 1 OF 1
Orderman, Responsibility Note	2/2007	QADD: dl
Check, Don't Detail Added	5/2013	ENG: tz
Misc. Text Edits		PA: PM
		TECH:
		Soil Erosion Detail done
		PHF



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Infrastructure Engineering
Environmental Services
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3 WORKING DAYS

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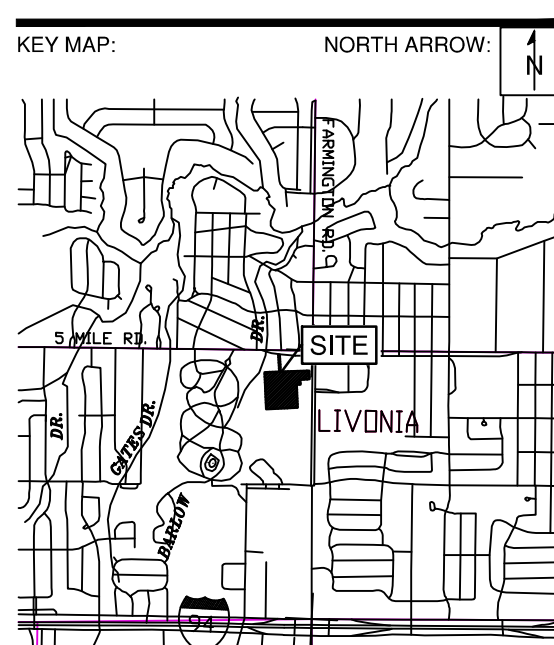
ALTERNATE NUMBER (811)

COLOR CODES FOR UTILITY LOCATING:

<p>Yellow Orange Red</p>	<p>DL & GAS PHONE & CABLE ELECTRIC</p>	<p>Blue Green Brown SILVER GRAY</p>	<p>WATER STORM DRAIN SEWER GAS SOLIDWASTE</p>
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IF YOU ARE GOING TO WORK NEAR OVERHEAD WIRES ... CALL MISS DIG





REVISION BLOCK	
REV	DATE DESCRIPTION
	2025-02-13: REVISIONS TO PAVEMENT LIMITS PER PRE-BID WALKTHROUGH COMMENTS

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: 2/13/2025
CAD FILE NAME:	

SHEET TITLE:

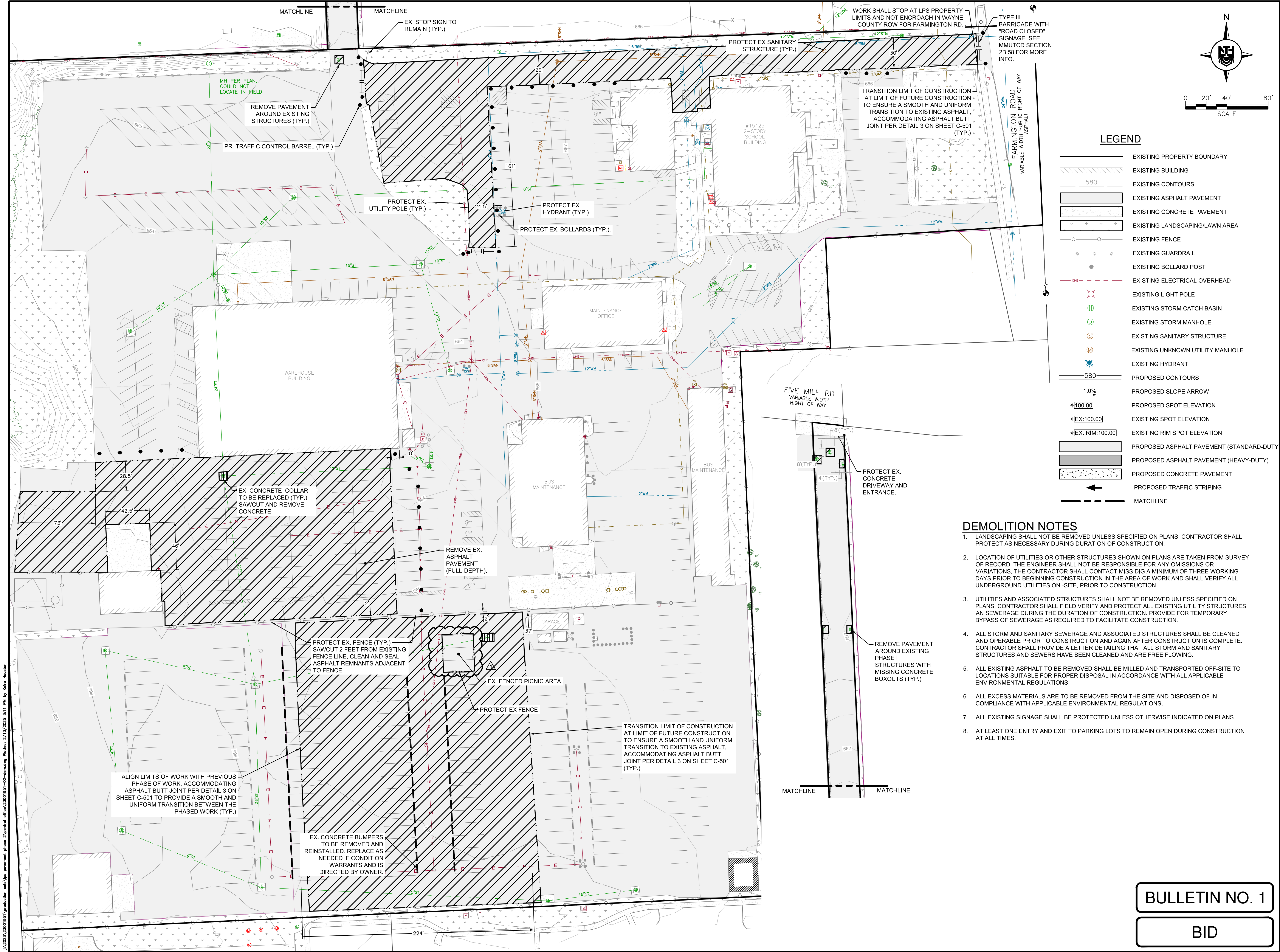
**SOIL EROSION AND
SEDIMENTATION CONTROL
STANDARD DETAILS**

SHEET NUMBER:

C-104

BULLETIN NO. 1

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.

BULLETIN NO. 1

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For the location of public utility lines.
ALTERNATE NUMBER (811)
YOUR CODES FOR UTILITY LOCATING:
Yellow OL & GAS
Orange WATER
Blue STORM DRAIN
Red ELECTRIC
Pink FIBER OPTIC
If you are going to work near overhead wires - CALL MISS DIG

SEAL/STAMP:

KEY MAP: NORTH ARROW:

REVISION BLOCK	
REV	DATE: DESCRIPTION
1	2025-02-13: REVISIONS TO PAVEMENT LIMITS PER PRE-BID WALKTHROUGH COMMENTS

SUBMITTAL LOG	
DATE	PACKAGE NAME

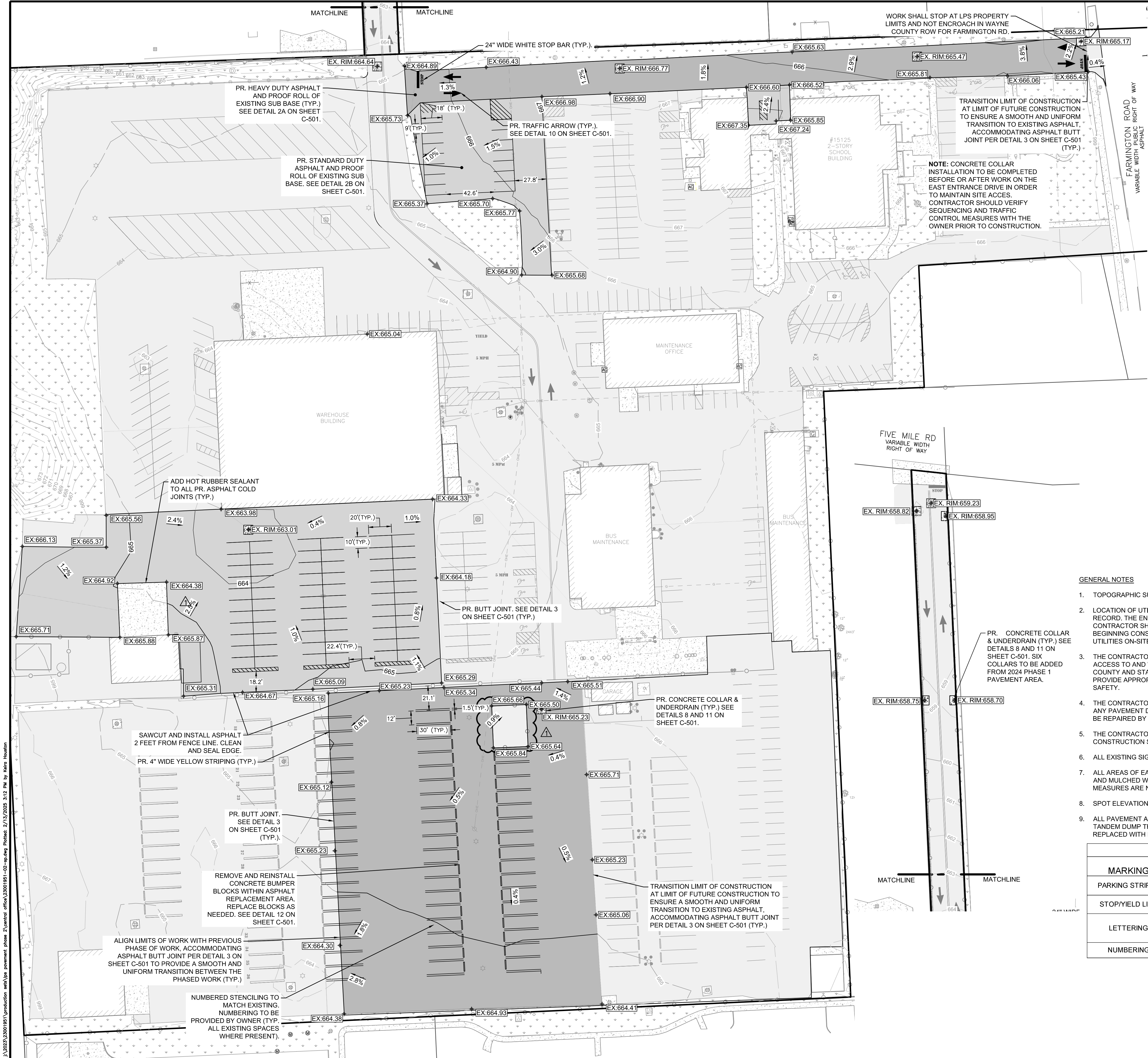
PROJECT NAME:
**LIVONIA PUBLIC SCHOOLS
2025 PAVING PROGRAM-
CENTRAL OFFICE PHASE 2**

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: 2/13/2025
CAD FILE NAME:	

SHEET TITLE:
DEMOLITION PLAN

SHEET NUMBER:
C-105



LEGEND

- EXISTING PROPERTY BOUNDARY
- EXISTING BUILDING
- EXISTING CONTOURS
- EXISTING ASPHALT PAVEMENT
- EXISTING CONCRETE PAVEMENT
- EXISTING LANDSCAPING/LAWN AREA
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- PROPOSED ASPHALT PAVEMENT (HEAVY-DUTY)
- PROPOSED CONCRETE PAVEMENT
- PROPOSED TRAFFIC STRIPING
- MATCHLINE

GENERAL NOTES

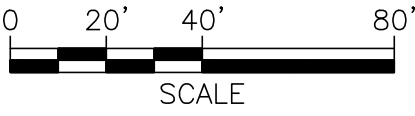
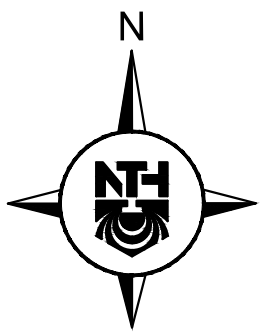
- TOPOGRAPHIC SURVEY WAS PERFORMED BY KEM-TEC & ASSOCIATES ON FEBRUARY 26, 2024.
- LOCATION OF UTILITIES OR OTHER STRUCTURES SHOWN ON PLANS ARE TAKEN FROM SURVEY OF RECORD. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR ANY OMISSIONS OR VARIATIONS. THE CONTRACTOR SHALL CONTACT MISS DIG A MINIMUM OF THREE WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION IN THE AREA OF WORK AND SHALL VERIFY ALL UNDERGROUND UTILITIES ON-SITE, PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL PROVIDE NECESSARY TRAFFIC CONTROL AND SIGNAGE TO MAINTAIN ACCESS TO AND WITHIN PROPERTY THROUGHOUT CONSTRUCTION IN ACCORDANCE WITH LOCAL, COUNTY AND STATE REQUIREMENTS OR AS DIRECTED BY ENGINEER. CONTRACTOR SHALL PROVIDE APPROPRIATE BARRICADES AROUND WORK AREAS FOR PEDESTRIAN AND VEHICULAR SAFETY.
- 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.
- THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND MAINTAINING ALL NECESSARY CONSTRUCTION STAKING AND GRADE AND ALIGNMENT CONTROLS.
- ALL EXISTING SIGNAGE SHALL BE PROTECTED UNLESS OTHERWISE INDICATED ON PLANS.
- ALL AREAS OF EARTH DISTURBANCE CAUSED BY CONSTRUCTION ACTIVITIES SHALL BE SEEDED AND MULCHED WITH 3" TOPSOIL AND MDOT CLASS A SEED WHERE FINAL EARTH STABILIZATION MEASURES ARE NOT SPECIFICALLY DESIGNATED. SEE DETAIL 5 ON SHEET C-501.
- SPOT ELEVATIONS SHOWN ARE TOP OF PAVEMENT UNLESS OTHERWISE INDICATED.
- ALL PAVEMENT AREAS, EXISTING AND PROPOSED SHALL BE PROOF ROLLED WITH A FULLY LOADED TANDEM DUMP TRUCK PRIOR TO PAVING. ANY UNSTABLE SUBGRADE SHALL BE REMOVED AND REPLACED WITH FILL COMPACTED TO 95% MAXIMUM DRY DENSITY OF MODIFIED PROCTOR.

PAVEMENT MARKING TABLE

MARKING	PAINT SPEC	SIZE	COATS/COLOR
PARKING STRIPES	SECTION 32 1723.13	4"	2/YELLOW
STOP/YIELD LINE		24"	2/WHITE
LETTERING		12" WIDTH X 18" TALL, 4" SPACING BETWEEN NUMBERS	2/YELLOW
NUMBERING		12" WIDTH X 18" TALL	2/YELLOW

BULLETIN NO. 1

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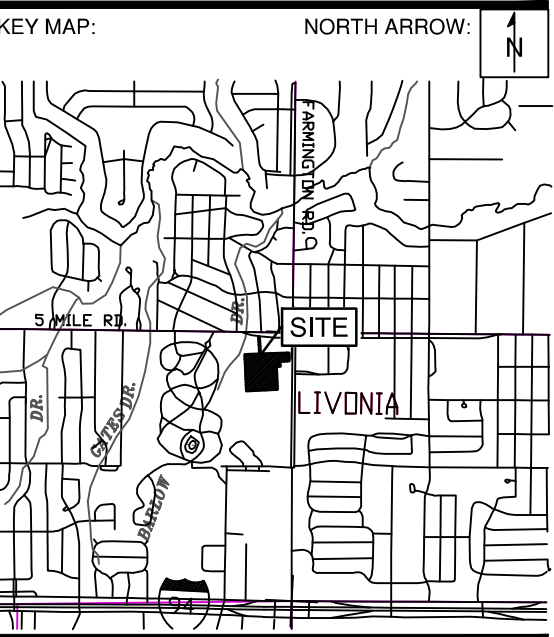
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Orange Gas Line Green Sewer
Red Electric Pole Purple Surfactant

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SEAL/STAMP:



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DRAWN BY: KBH	SHEET SIZE: ARCH D (24"x36")
CHECKED BY: DRL	DATE: 2/13/2025
CAD FILE NAME:	

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

SHEET NUMBER:
C-106

