LIVONIA PUBLIC SCHOOLS CENTRAL OFFICE PAVEMENT PROGRAM PHASE 1

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

FOOTING

GALVANIZED

GUSSET PLATE

GATE VALVE

GROUND SURFACE

GATE VALVE AND WELL

HIGH/HORIZONTAL

HIGH PRESSURE

INCLINOMETER

INNER DIAMETER

HEIGHT

I.E. INVERT ELEVATION

INCH(ES)

INVERT

JOIST

JOINT

LBS

MECH

MTL

LENGTH/LONG

POUNDS

LEVEL

METER

MASONRY

MATERIAL

MAXIMUM

MECHANICAL

MANHOLE

METAL

NORTH

MINIMUM

MILLIMETER

MICHIGAN DEPARTMENT OF

MANUFACTURED TREATMENT DEVICE

TRANSPORTATION

MECHANICAL JOINT

MONITORING WELL

NORTHBOUND

NOT TO SCALE

NORTHWEST

NOT IN CONTRACT

POINT OF CURVATURE

POINT OF BEGINNING

POUNDS PER SQUARE FOOT

POUNDS PER SQUARE INCH

POINT OF ENDING

NORTHEAST

NUMBER

O.C. ON CENTER

PERM

O.D. OUTERDIAMETER

OPPOSITE

PERMANENT

PROPOSED

PROPERTY LINE

PLATE

OPNG OPENING

LINEAR FEET

HYDRAULIC GRADE LINE

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

LIST OF ABBREVIATIONS

DEGREE OR DEGREES

CENTERLINE

INCH, INCHES

PLUS OR MINUS

ANCHOR BOLT

AVERAGE

воттом

BITUMINOUS

BENCHMARK

BASE PLATE

BOTTOM OF WALL

CENTER TO CENTER

CAST-IN-PLACE

CONTROL JOINT

COLUMN

CONCRETE

CAP PLATE

COVER

CONTINUOUS

CONSTRUCTION

CABLE TELEVISION

DUCTILE IRON

DIAMETER

DIAGONAL

DRAWING

DOWELS

EAST

EACH

ELEVATION

ELECTRICAL

ENGINEERED EXISTING

EXCAVATE(D)

EXPANSION

FINISH FLOOR

FIRE HYDRANT

FLOOR

FINISHED GRADE

DIMENSION

DUCTILE IRON PIPE

ENERGY GRADE LINE

EAST JORDAN IRON WORKS

EXPANSION JOINT

CUBIC FEET PER SECOND

CORRUGATED METAL PIPE

CONCRETE MASONRY UNIT

COMBINED SEWER OUTFALL

CONSTRUCTION JOINT

CATCH BASIN

CUBIC FEET

BOTTOM OF FOUNDATION

BLOW OFF

BEARING

BRACKET

BUILDING

AVG

BLDG

BOF

BRG

BRKT

BSMT

 $\mathsf{C} - \mathsf{C}$

CFS

CIP

CLR

CMP

CMU

CNJ

COL

CONC

CONT

CONST

COV

CSO

CTV

DIAG

DWG

DWL

EJIW

ELEC

ENG

EXCAV

EXP

NUMBER OR POUND

ENGINEERING PLANS 15125 FARMINGTON ROAD LIVONIA, MI 48150

NTH PROJECT NO. 23001951

OWNER:

POINT OF TANGENCY

POLYVINYL CHLORIDE

PNEUMATIC PIEZOMETER

REINFORCED CONCRETE PIPE

PAVEMENT

REINFORCED/

RIGHT OF WAY

SANITARY

SCHEDULE

SOUTHEAST

SHEET

SIMILAR

SQUARE

STATION

STEEL

STORM

SUPPOR1

SIDEWALK

TOP

STRUCTURAL

SOUTHWES1

SQUARE YARDS

TEST BORING

TEMPORAR'

TOP OF

TYPICAL

TYPICAL

VERTICAL

VERTICAL

WEST

WITH

WIDE

WATERMAIN

TOP AND BOTTOM

TOP OF CONCRETE

TURNING POINT

TOPOGRAPHIC

TOP OF STEEL

TOP OF WALL

TOP OF WALL

THICK OR THICKNESS

TOP OF FOUNDATION

UNLESS NOTED OTHERWISE

VITREOUS CLAY PIPE

WELDED WIRE FABRIC

VERIFY IN FIELD

STORMWATER MANAGEMENT

STANDARD STIFFENER

SQUARE FOOT

SPACE/SPACING

SPLICE LENGTH

SLAB ON GRADE

STAINLESS STEEL

STEEL SHEET PILE

SE

SHT

SIM

SQ

SSP

STA

STD

STL

STM

SUP

S/W

TEMP

TOW

TYP

STRUC

SOIL BORING

SHEAR CONNECTOR/

SOIL EROSION AND SEDIMENT CONTROL

REINFORCEMENT

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

ENGINEER:

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

PROJECT DESCRIPTION:

LIVONIA PUBLIC SCHOOLS CENTRAL OFFICE PAVEMENT PROGRAM 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:

- 28,000 SQUARE FEET OF FULL DEPTH REMOVAL & REPLACEMENT (STANDARD DUTY ASPHALT)
- 88,000 SQUARE FEET OF FULL DEPTH REMOVAL &
- REPLACEMENT(HEAVY DUTY ASPHALT)

 12,000 SQUARE FEET OF CRACK-FILL AND SEAL COAT
- INSTALLATION OF NEW CONCRETE BOX OUTS AND DRAIN TILES AROUND EXISTING DRAINAGE STRUCTURES, AND REPAIR OF EXISTING CONCRETE BOX OUTS WHERE NECESSARY.
- REPLACE 5 BOLLARD SLEEVES TO EXISTING BOLLARD POSTS.
 INSTALLATION OF 1 BOLLARD POST IN CAST-IN-PLACE CONCRETE
- PROVIDE 2 STOP SIGNS WITH PEDESTAL BASES AND ADDITIONAL SIGNAGE FOR 5 ADA PARKING SPACES.
- EXCAVATION AND REPLACEMENT OF A MAXIMUM DEPTH OF
 18-INCHES BELOW THE BOTTOM OF THE PAVEMENT PROFILE FOR A
 MAXIMUM OF 11,600 SQUARE-FEET OF THE FULL-DEPTH ASPHALT
 REPLACEMENT AREA.

Sheet List C-100 COVER SHEET

C-101 TOPOGRAPHIC SURVEY

C-102 SOIL EROSION & SEDIMENTATION CONTROL PLAN

C-104 DEMOLITION PLAN

C-104 DEMOLITION PLAN

C-105 PROPOSED SITE AND GRADING PLAN

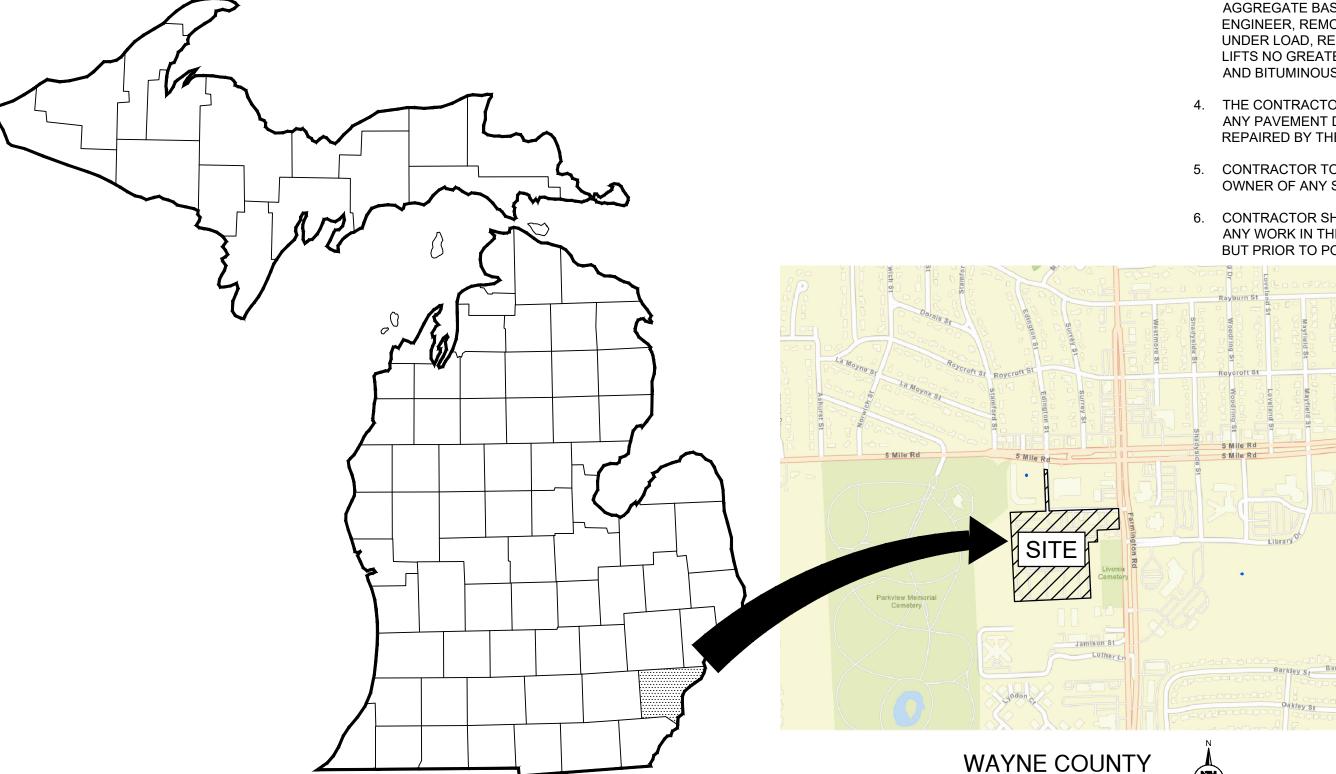
SESC STANDARD DETAILS

C-501 CIVIL DETAILS (1 OF 2)

C-502 CIVIL DETAILS (2 OF 2)

<u>NOTES</u>

- 1. TOPOGRAPHIC SURVEY WAS PERFORMED BY 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 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.
- 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.



MICHIGAN

APPROX SCALE 1"= 50 MILES

BULLETIN NO. 1



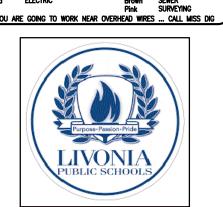
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SEAL/STAMP:

KEY MAP:

NORTH ARROW:

N

SITE

LIVUNIA

REVISION BLOCK

DATE: DESCRIPTION

2024-07-18: REVISIONS TO PAVING LIMITS

WALKTHROUGH COMMENTS

STRIPING, AND SIGNAGE PER PRE BID

SUBMITTAL LOG

DATE PACKAGE NAME

PROJECT NAME:

LPS CENTRAL OFFICE
PAVEMENT - PHASE 1

PROJECT LOCATION:

15125 FARMINGTON ROAD
LIVONIA, MICHIGAN 48150

 DESIGNED BY:
 NTH PROJECT NO.:

 SKG
 23001951

 DRAWN BY:
 SHEET SIZE:

 SKG
 ARCH D (24"x36")

 CHECKED BY:
 DATE:

 SLG
 5/2/2024

 CAD FILE NAME:

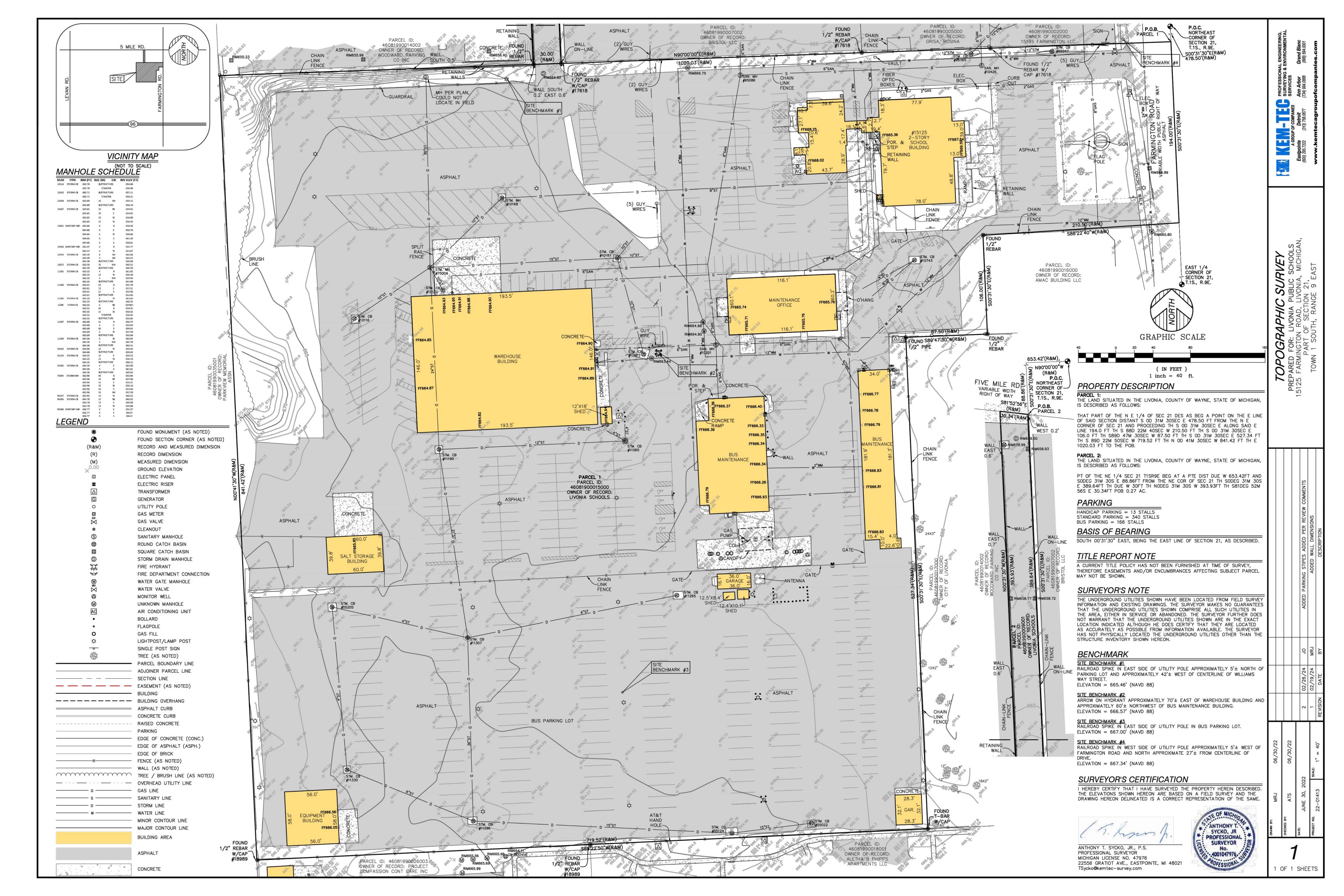
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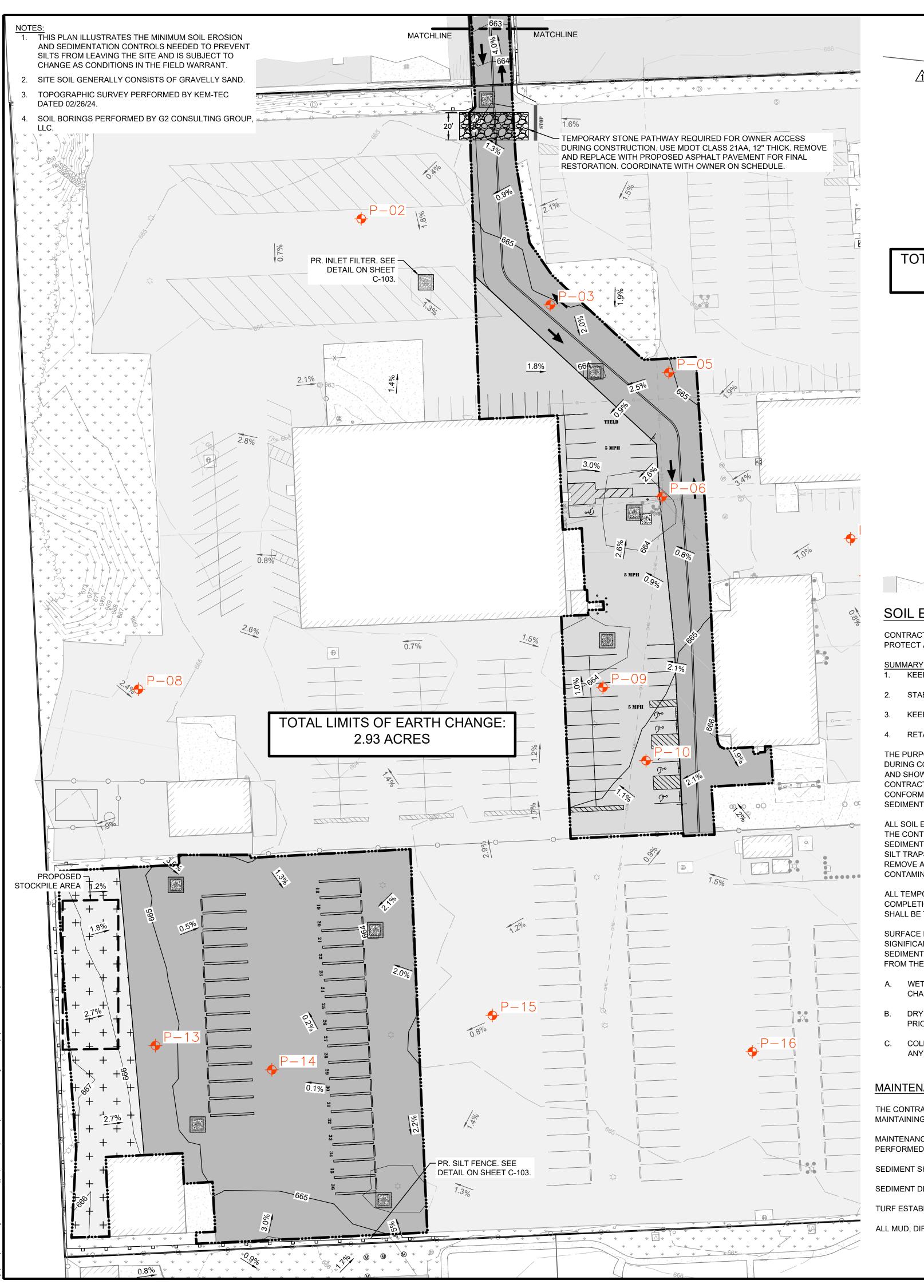
COVER SHEET

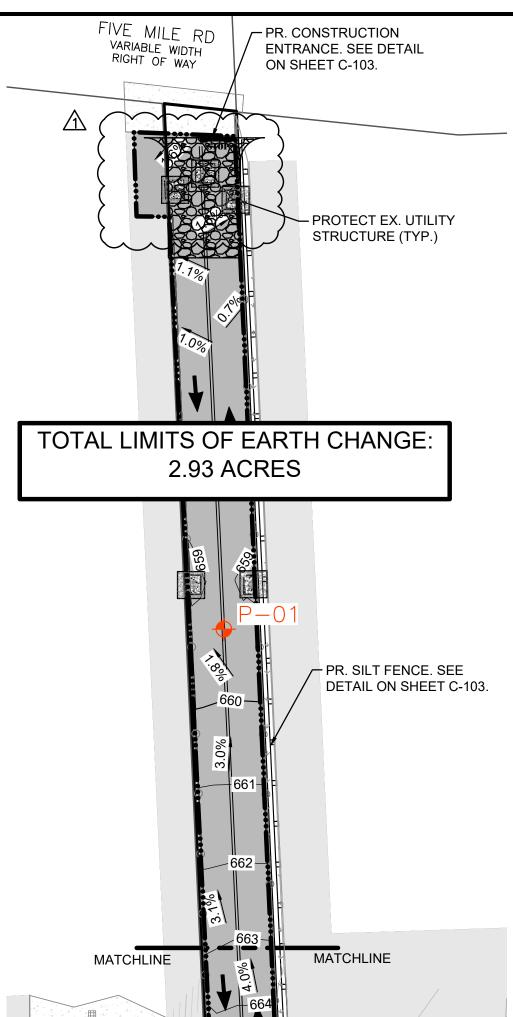
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SOIL EROSION AND SEDIMENTATION CONTROL NOTES:

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

I. 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.
- 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.

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.

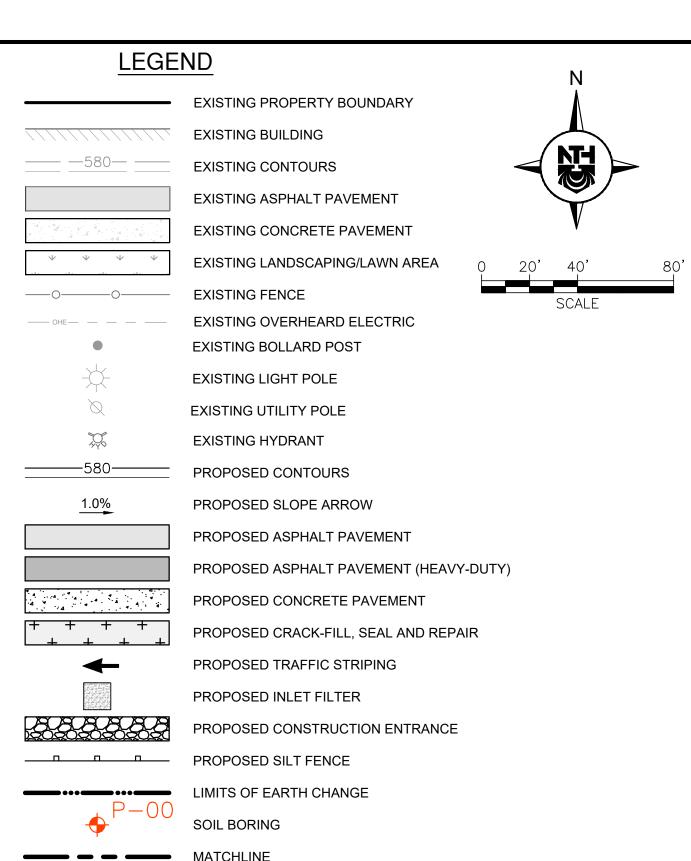
SEDIMENT SHALL BE REMOVED AS NECESSARY TO MAINTAIN THE EFFECTIVENESS OF SOIL EROSION AND SEDIMENTATION CONTROL DEVICES.

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.

BULLETIN NO. 1



SOIL EROSION SEQUENCE OF CONSTRUCTION

- 1. INSTALL SILT FENCE, INLET FILTERS AND MUD MAT ON EXISTING CATCH BASINS. ESTIMATED DATE: 06/2024
- 2. DEMOLISH THE SITE PER THE PLANS. ESTIMATED DATE: 06/2024 THRU 09/2024
- 3. CONSTRUCT SITE FEATURES PER THE PLANS ESTIMATED DATE: 06/2024 to 09/2024
- 4. STABILIZE DISTURBED AREAS AS NOTED ON THE PLANS WITHIN 5 DAYS OF FINAL GRADING. ESTIMATED DATE: 09/2024
- 5. RESTORE ALL OFF-SITE AREAS TO PRE-CONSTRUCTION CONDITION FOLLOWING SITE CONSTRUCTION.
- 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: 09/2024

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 BARRIERS, AND FILTERS AS DETAILED AND REQUIRED AND WHERE 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.

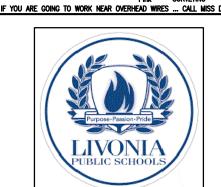
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SEAL/STAMP:

KEY MAP:

NORTH ARROW:

ABMINUTED ARROWS

SITE

LIVUNIA

DATE: DESCRIPTION

2024-07-18: REVISIONS TO PAVING LIMITS,
STRIPING, AND SIGNAGE PER PRE BID
WALKTHROUGH COMMENTS

REVISION BLOCK

SUBMITTAL LOG				
ATE	PACKAGE NAME			

PROJECT NAME:

LPS CENTRAL OFFICE

PAVEMENT - PHASE 1

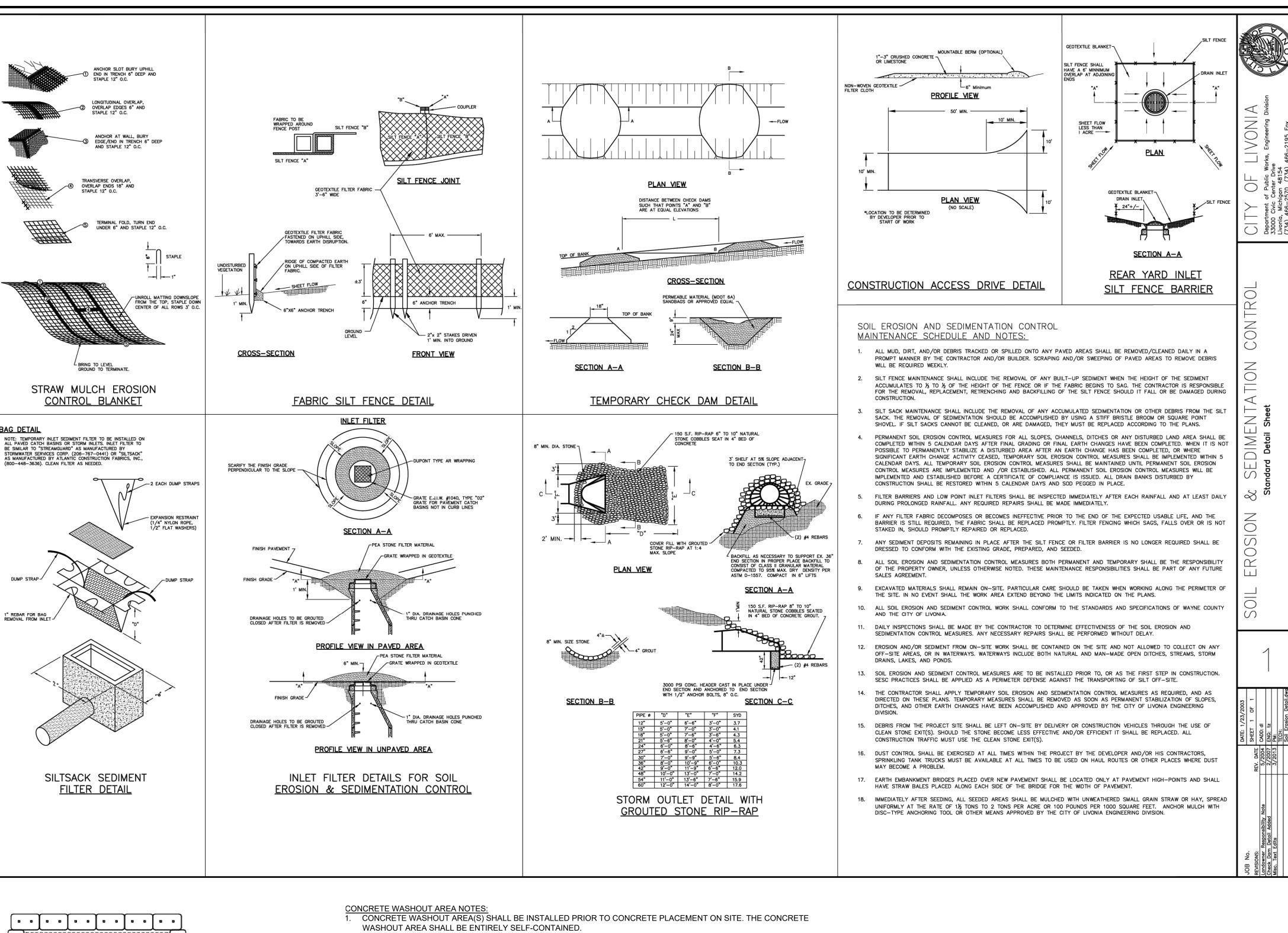
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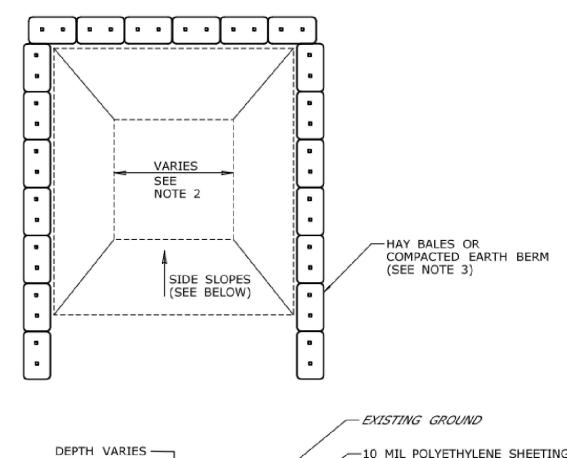
15125 FARMINGTON ROAD
LIVONIA, MICHIGAN 48150

DESIGNED BY:	NTH PROJECT NO.:		
SKG	23001951		
DRAWN BY:	SHEET SIZE:		
SKG	ARCH D (24"x36"		
CHECKED BY:	DATE:		
SLG	5/2/2024		
CAD FILE NAME:			

SHEET TITLE:
SOIL EROSION &
SEDIMENTATION
CONTROL PLAN

SHEET NUMBER:





-10 MIL POLYETHYLENE SHEETING SEE NOTE 2

CONCRETE WASHOUT AREA

NOT TO SCALE (SEE NOTE 2) -SAND BAGS TO SECURE

SHEETING (OR METHOD AS DIRECTED BY ENGINEER)

-SIDE SLOPES TO BE 2:1 OR 3:1 (NOMINAL) 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.

LOCATION: WASHOUT AREA(S) ARE TO BE LOCATED AT LEAST 50 FEET FROM ANY STREAM, WETLAND, STORM DRAINS, OR OTHER SENSITIVE R3ECOURCE. THE CONCRETE WASHOUT SHALL NOT BE LOCATED WITHIN FLOODPLAIN.

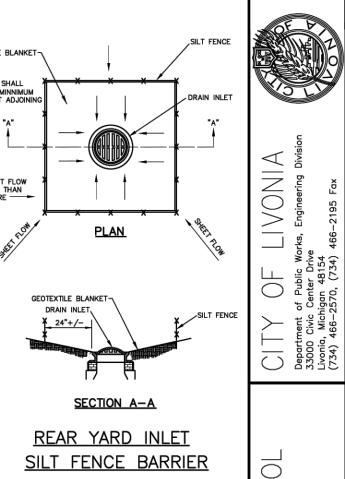
- 3. SURFACE DISCHARGE IS UNACCEPTABLE. THEREFORE, HAY BALES OR OTHER CONTROL MEASURES, AS APPROVED BY THE ENGINEER, SHOULD BE USED AROUND THE PERIMETER OF THE CONCRETE WASHOUT AREA
- FOR CONTAINMENT. SIGNS SHOULD BE PLACED AT THE CONSTRUCTION ENTRANCE, AT THE CONCRETE AREA(S) AND ELSEWHERE AS NECESSARY 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

5. 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.

METHOD, AS NECESSARY.

- 6. 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.
- 7. PAYMENT FOR THIS ITEM IS TO BE INCLUDED UNDER THE GENERAL COST OF THE WORK FOR THE PROJECT, INCLUDING SITE RESTORATION.
- 8. CONCRETE WASHOUT AREA(S) ARE TO BE REMOVED UPON COMPLETION OF THE JOB AND THE AREA RESTORED TO PREVIOUS SITE CONDITIONS, IN-KIND.



DATE: DESCRIPTION 2024-07-18: REVISIONS TO PAVING LIMITS. STRIPING, AND SIGNAGE PER PRE BID WALKTHROUGH COMMENTS SUBMITTAL LOG

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Lansing, MI

BEFORE YOU DIG

1-800-482-7171 For free location of public utility line

Northville, MI

SEAL/STAMP:

DATE PACKAGE NAME

PROJECT NAME: LPS CENTRAL OFFICE PAVEMENT - PHASE 1

PROJECT LOCATION: 15125 FARMINGTON ROAD LIVONIA, MICHIGAN 48150

NTH PROJECT NO.: DESIGNED BY 23001951 DRAWN BY SHEET SIZE: ARCH D (24"x36") CHECKED BY: 5/2/2024 CAD FILE NAME:

SESC STANDARD DETAILS

SHEET NUMBER:

BULLETIN NO. 1



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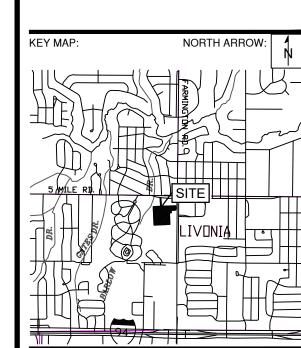
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SEAL/STAMP:



REVISION BLOCK

DATE: DESCRIPTION 2024-07-18: REVISIONS TO PAVING LIMITS, STRIPING, AND SIGNAGE PER PRE BID ✓1 | WALKTHROUGH COMMENTS

SUBMITTAL LOG

DATE PACKAGE NAME

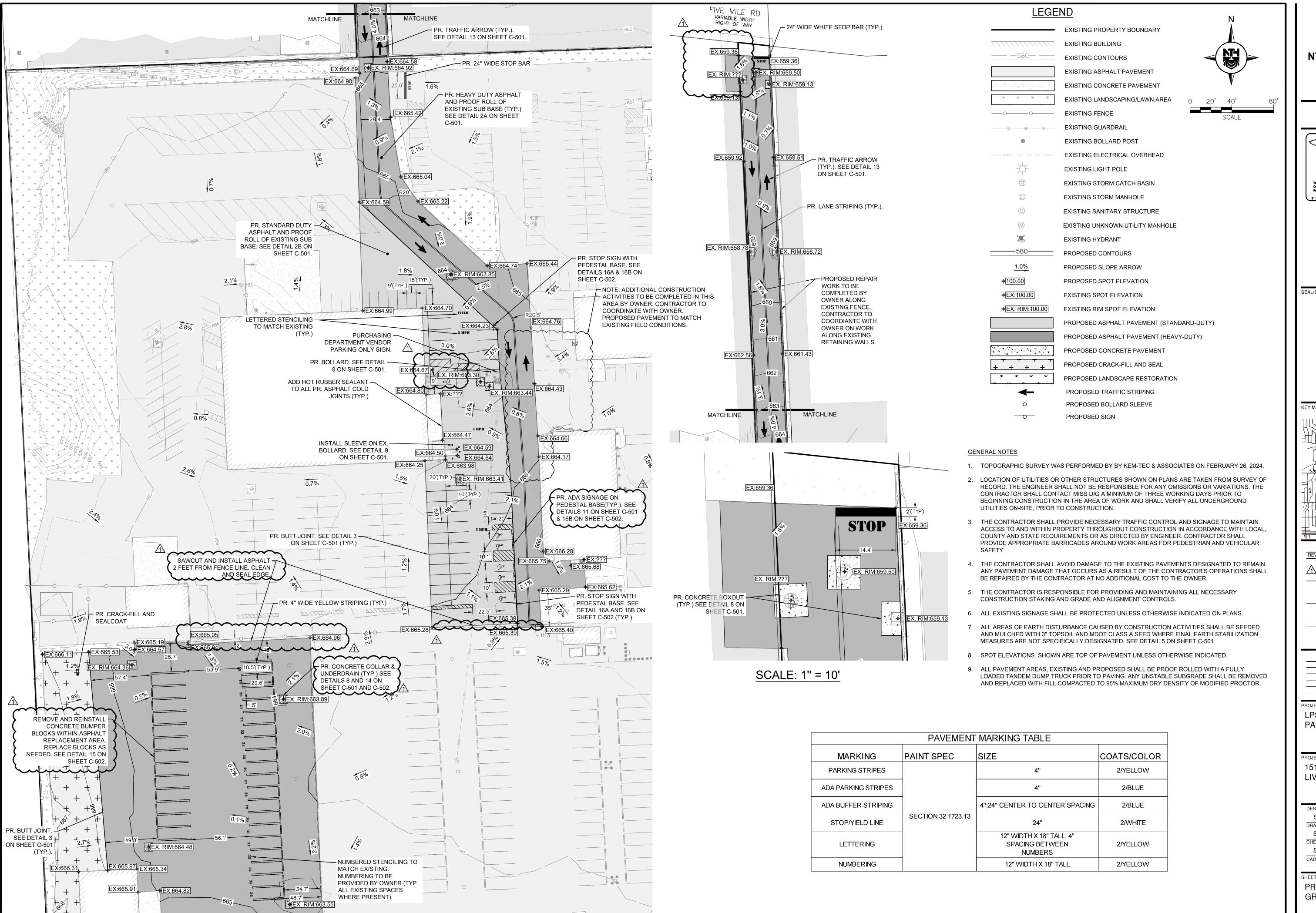
LPS CENTRAL OFFICE PAVEMENT - PHASE 1

PROJECT LOCATION: 15125 FARMINGTON ROAD LIVONIA, MICHIGAN 48150

DESIGNED BY:	NTH PROJECT NO.:		
SKG	23001951		
DRAWN BY:	SHEET SIZE:		
SKG	ARCH D (24"x36")		
CHECKED BY:	DATE:		
SLG	5/2/2024		
CAD FILE NAME:			

DEMOLITION PLAN

SHEET NUMBER:



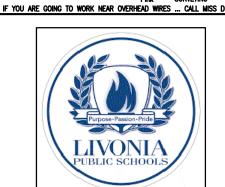
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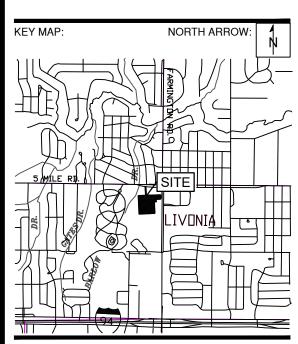
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SUBMITTAL LOG DATE PACKAGE NAME

PROJECT NAME: LPS CENTRAL OFFICE PAVEMENT - PHASE 1

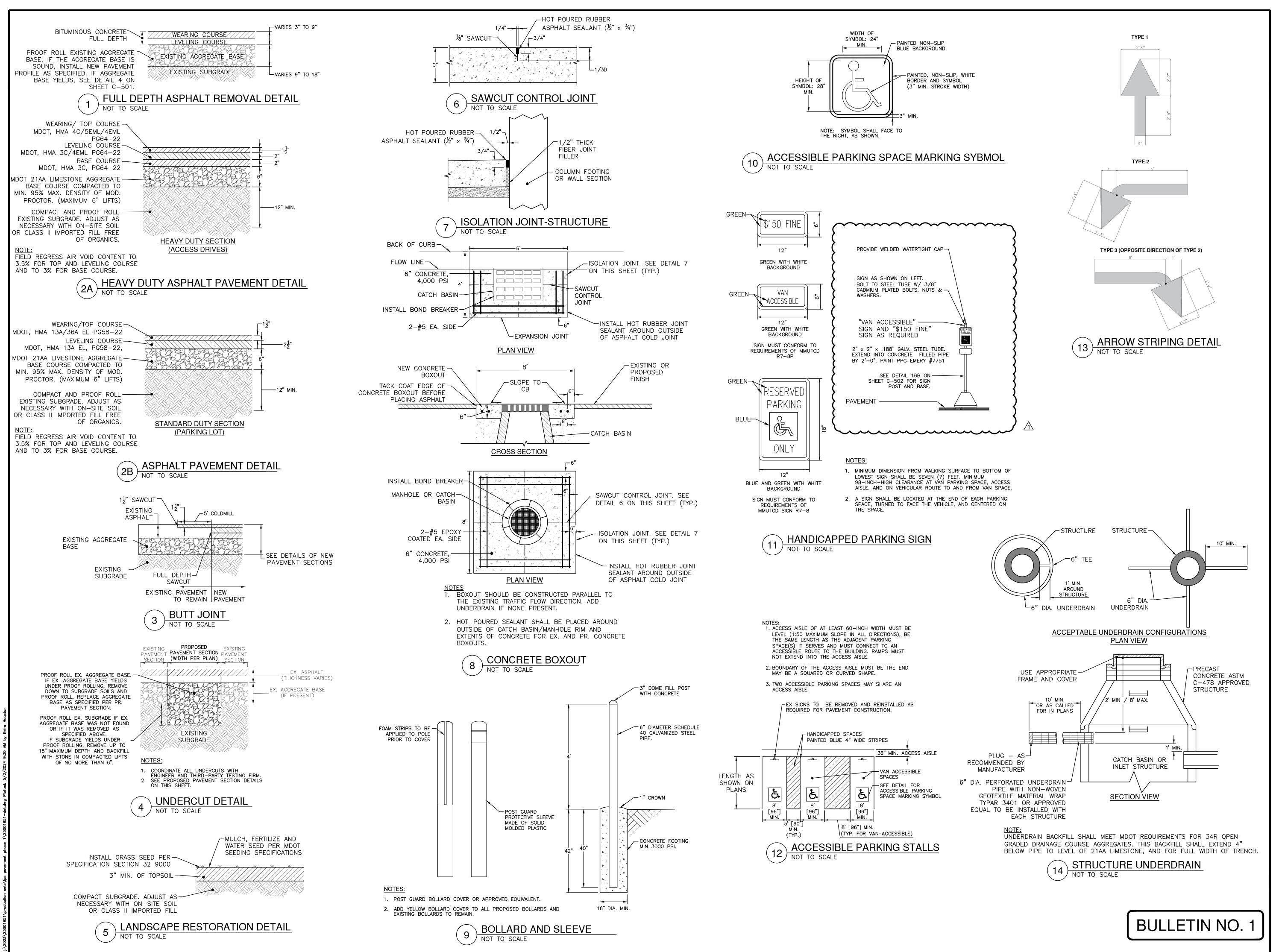
PROJECT LOCATION: 15125 FARMINGTON ROAD LIVONIA, MICHIGAN 48150

SIGNED BY:	NTH PROJECT NO.:
SKG	23001951
RAWN BY:	SHEET SIZE:
SKG	ARCH D (24"x36")
HECKED BY:	DATE:
SLG	5/2/2024
AD FILE NAME:	

PROPOSED SITE AND **GRADING PLAN**

SHEET NUMBER:

BULLETIN NO. 1



NT-I

NTH Consultants, Ltd.

Infrastructure Engineering
Environmental Services
Facilities Engineering
www.nthconsultants.com

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





SEAL/STAMP:

REVISION BLOCK

REV DATE: DESCRIPTION

2024-07-18: REVISIONS TO PAVING LIMITS.

SUBMITTAL LOG
DATE PACKAGE NAME

STRIPING, AND SIGNAGE PER PRE BID

✓1 | WALKTHROUGH COMMENTS

PROJECT NAME:

LPS CENTRAL OFFICE

PAVEMENT - PHASE 1

PROJECT LOCATION:

15125 FARMINGTON ROAD
LIVONIA, MICHIGAN 48150

DESIGNED BY:

SKG

23001951

DRAWN BY:

SKG

ARCH D (24"x36")

CHECKED BY:

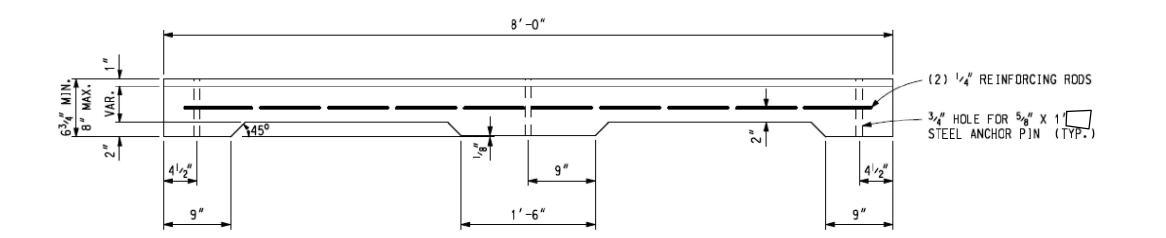
SLG

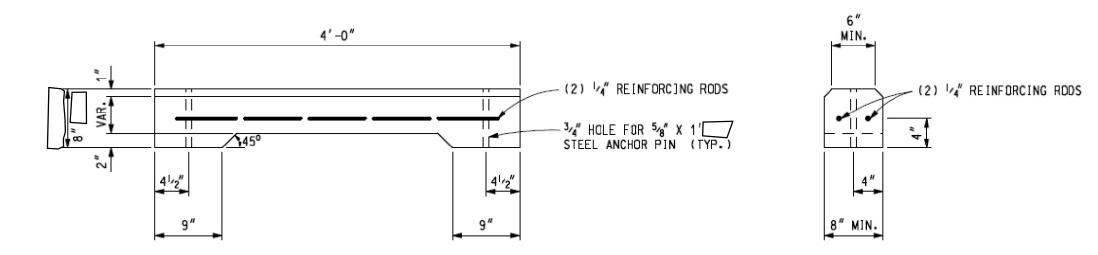
CAD FILE NAME:

HEET TITLE:

CIVIL DETAILS (1 OF 2)

SHEET NUMBER:

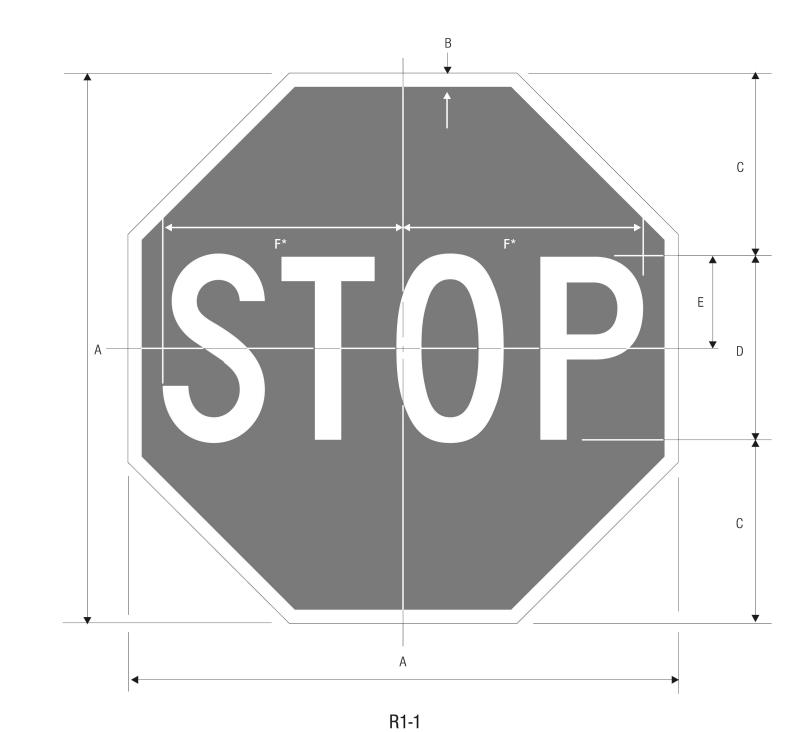




1. DETAIL FROM MOOT ROAD AND BRIDGE STANDARDS R-74-D.

- CONCRETE PARKING RAIL SHALL BE CONSTRUCTED IN 8'-0" LENGTHS UNLESS OTHERWISE INDICATED ON THE PLANS.
- 3. THIS DETAIL INCLUDES $5/8" \times 1'-0"$ STAINLESS STEEL ANCHOR PINS TO FASTEN INTO CONCRETE PAVEMENT (4" MIN. EMBED; 6" MAX. EMBED)
- 4. PARKING BARRICADE SHALL BE PAINTED YELLOW.



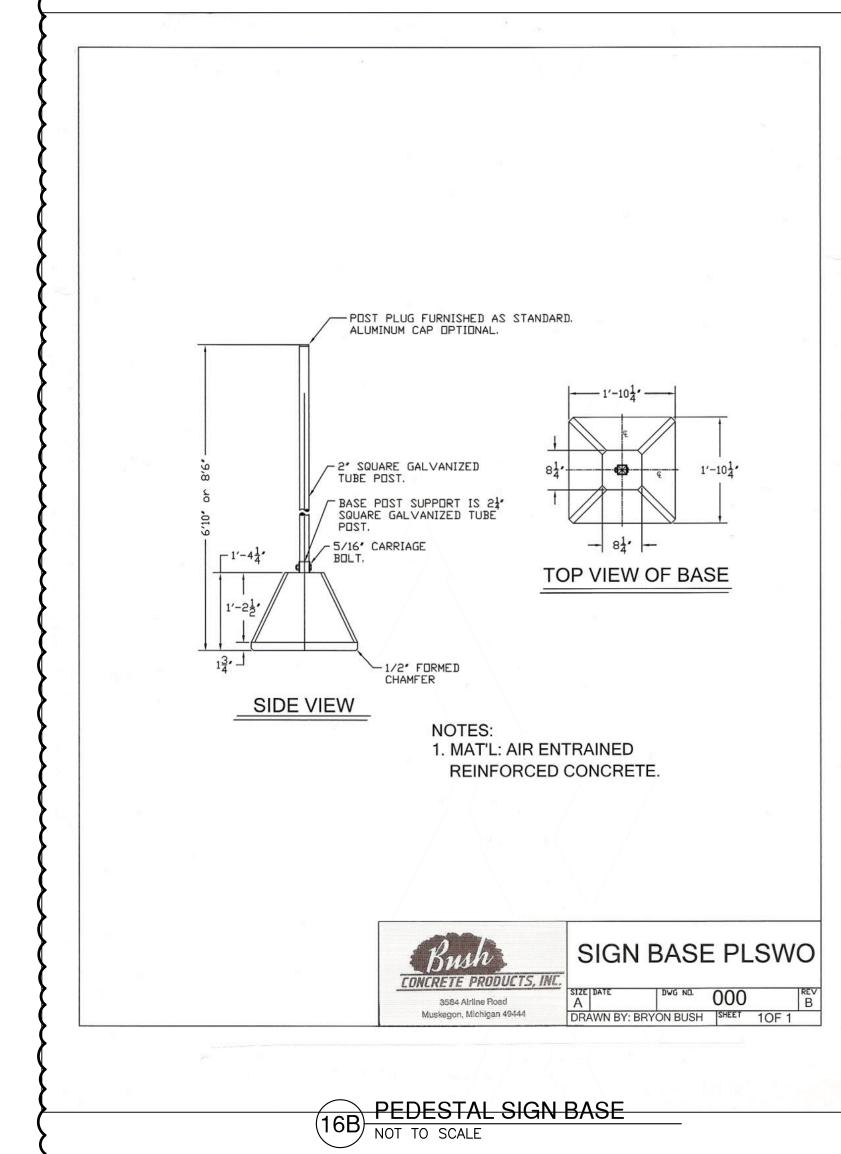


			S	TOP	*Reduce	e spacing	40%
	А	В	С	D	Е	F	
	18	.375	6	6 C	3	7.75	
	24	.625	8	8 C	4	10	
C	30	.75	10	10 C	5	12.5	
	36	.875	12	12 C	6	15	
	48	1.25	16	16 C	8	20	

ST0P

COLORS: LEGEND — WHITE (RETROREFLECTIVE) BACKGROUND — RED (RETROREFLECTIVE)

16A STOP SIGN NOT TO SCALE



Environmental Services

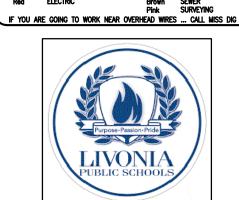
Facilities Engineering

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SEAL/STAMP:

REVISION BLOCK DATE: DESCRIPTION 2024-07-18: REVISIONS TO PAVING LIMITS, STRIPING, AND SIGNAGE PER PRE BID WALKTHROUGH COMMENTS

SUBMITTAL LOG DATE PACKAGE NAME

PROJECT NAME: LPS CENTRAL OFFICE PAVEMENT - PHASE 1

PROJECT LOCATION: 15125 FARMINGTON ROAD LIVONIA, MICHIGAN 48150

NTH PROJECT NO.: DESIGNED BY: 23001951 DRAWN BY: SHEET SIZE: ARCH D (24"x36") CHECKED BY: 5/2/2024 SLG CAD FILE NAME:

CIVIL DETAILS (2 OF 2)

SHEET NUMBER:

C-502

BULLETIN NO. 1