

Marshall Township Fire Station No. 1 13550 15 Mile Road Marshall, MI 49068

UTILITY COMPANIES

TELEPHONE
AMERITECH
54 NORTH MILL STREET
PONTIAC, MICHIGAN
PH: 248.456-0809

CABLE
MARSHALL INTERNET DEPARTMENT
323 WEST MICHIGAN AVE,
MARSHALL, MI 49068
PH: 269.781.5163

ELECTRICAL
MARSHALL PUBLIC POWER
323 WEST MICHIGAN AVE,
MARSHALL, MI 49068
PH: 269.781.5163

GAS
CONSUMERS ENERGY COMPANY
1030 FEATHERSTONE RD.
PONTIAC, MI 48342
PH: 858.4448

WARNING!
THE LOCATIONS AND ELEVATIONS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THIS DRAWING ARE ONLY APPROXIMATE. NO GUARANTEE IS EITHER EXPRESSED OR IMPLIED AS TO THE COMPLETENESS OR ACCURACY THEREOF. THE CONTRACTOR SHALL BE EXCLUSIVELY RESPONSIBLE FOR DETERMINING THE EXACT UTILITY LOCATIONS AND ELEVATIONS PRIOR TO THE START OF CONSTRUCTION.



Orientation	Scale
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Project
**MARSHAL TOWNSHIP
FIRE STATION NO. 1**



Know what's below.
Call before you dig.

Project Location
**13550 15 MILE RD
MARSHALL, MI 49068**

Engineer's Seal

**PRELIMINARY - NOT
FOR CONSTRUCTION**

REV	ISSUED FOR	DATE	BY
01	SITE PLAN SUBMITTAL	01/15/2023	JWG

Date
12/15/2023

SME Project No.
094551.00

Project Manager:
J. GRAVES

Designer:
A. REED

CADD:
J. RIOS

Checked By:
A. REED

Reviewed By:
J. GRAVES

Sheet Name:
COVER SHEET

Sheet No.
C-100

LEGAL DESCRIPTION

LAND SITUATED IN THE STATE OF MICHIGAN, COUNTY OF CALHOUN, TOWNSHIP OF MARSHALL.

THE WEST 165 FEET OF THE SOUTHWEST 1/4 OF THE NORTHWEST 1/4 OF SECTION 27, TOWN 2 SOUTH, RANGE 6 WEST, LYING SOUTH OF OLD U.S. 12, EXCEPT THE NORTH 35 FEET.

OWNER

MR. JAMES DURIAN
CEO
MARSHALL AREA ECONOMIC DEVELOPMENT ALLIANCE
323 WEST MICHIGAN AVENUE
MARSHALL, MICHIGAN 48068

ENGINEER

SME
3301 TECH CIR
KALAMAZOO, MI 49008

CONTACT: MR. AARON REED
269-323-3555
www.sme-usa.com

SME PROJECT NO. 094551.00

SURVEYOR

SME
43980 PLYMOUTH OAKS BLVD.
PLYMOUTH, MI 48170

CONTACT: MR. JEFFREY S. EVANS, PS
PH: 734.454.9900

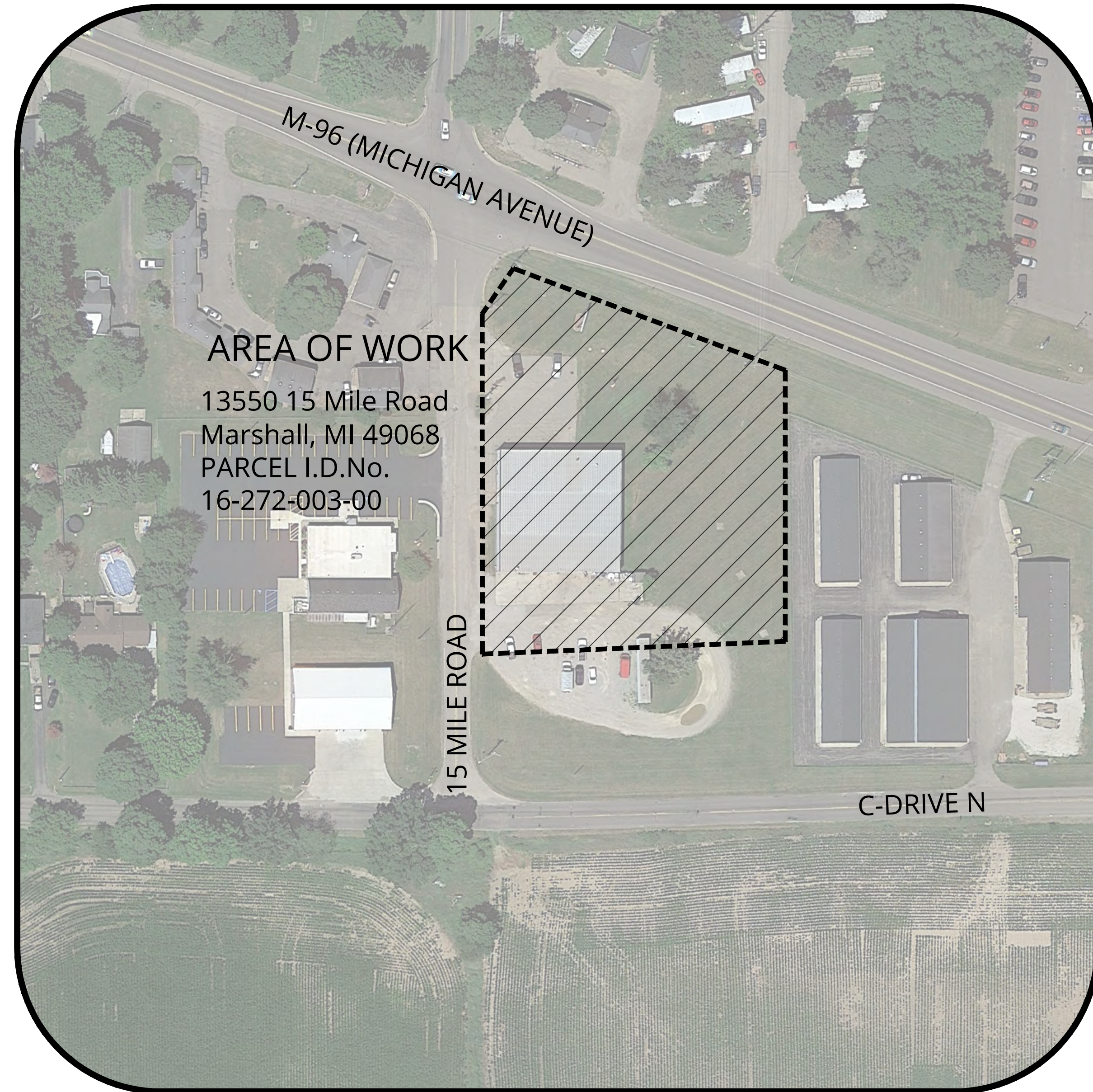
ARCHITECT

ALLIED DESIGN ARCHITECTURAL &
ENGINEERING GROUP, P.C.
100 S. PERSHING P.O. BOX 110
MORTON, IL 61550

CONTACT: MR. MARK BRININGER
SALES CONSULTANT

LIST OF DRAWINGS

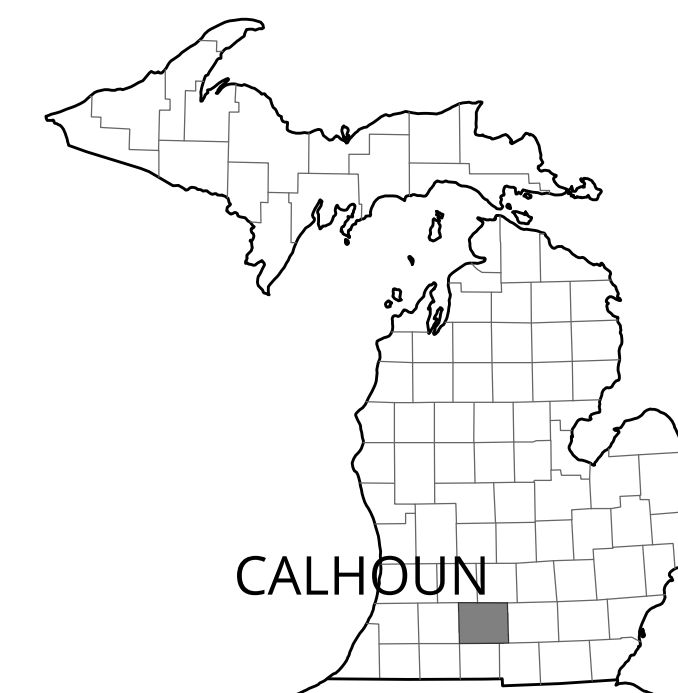
SHEET No.	SHEET TITLE
C-100	COVER SHEET
C-101	GENERAL PROJECT NOTES
C-200	EXISTING SITE CONDITIONS
C-300	SESC AND SITE PREPARATION PLAN
C-400	REMOVAL PLAN
C-500	SITE LAYOUT PLAN
C-600	INSTALLATION, PAVING AND GRADING PLAN
D-100	DETAILS
D-101	CITY/COUNTY DETAILS



OVERALL SITE PLAN
NOT TO SCALE



LOCATION MAP
NOT TO SCALE



COUNTY MAP
NOT TO SCALE

CONSTRUCTION SITE SAFETY IS THE RESPONSIBILITY OF THE CONTRACTOR. NEITHER THE OWNER NOR THE ENGINEER SHALL BE EXPECTED TO ASSUME RESPONSIBILITY FOR SAFETY OF THE WORK, OF PERSONS ENGAGED IN THE WORK, OF NEARBY STRUCTURES, NOR OF OTHER PERSONS.

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FILE LOCATION: I:\smc\hcr\WP\094551.00\CADD\Design\Final\CIV2-SPAR\rev\094551.00-Cover.dwg
PLOT DATE: Jan 15, 2024 - 11:53am - samantha.janicki

GENERAL NOTES

- MATERIAL AND CONSTRUCTION METHODS SHALL FOLLOW THE PRACTICE DEFINED BY THE LATEST EDITION OF THE MICHIGAN DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" AND APPLICABLE SPECIAL PROVISIONS UNLESS OTHERWISE MODIFIED HEREWITHIN OR IN THE PROJECT SPECIFICATIONS.
- THE LOCATION OF ALL UTILITIES SHOWN ON THESE PLANS IS TAKEN FROM AVAILABLE DATA. OWNER WILL NOT BE RESPONSIBLE FOR ANY OMISSION OR VARIATIONS FROM THE LOCATIONS SHOWN. PURSUANT TO ACT 174 OF THE PA OF 2019 AS A CONDITION OF THIS CONTRACT NOTICE SHALL BE GIVEN TO MISS DIG PRIOR TO UNDERGROUND WORK TO BE PERFORMED IN ACCORDANCE WITH THIS CONTRACT. CALL 811.
- FOR PRIVATE UTILITIES, CONTRACTOR SHALL RETAIN THE SERVICES OF A PRIVATE UTILITY LOCATOR TO LOCATE ALL PRIVATE UTILITIES OWNED BY OWNER.
- CONTRACTOR SHALL NOTIFY OWNER'S REPRESENTATIVE A MINIMUM OF 72 HOURS PRIOR TO BEGINNING CONSTRUCTION ACTIVITIES OR DISRUPTION OF ANY UTILITY.
- THE CONTRACTOR SHALL LOCATE ALL ACTIVE UNDERGROUND UTILITIES PRIOR TO STARTING WORK AND SHALL CONDUCT HIS OPERATIONS IN SUCH A MANNER AS TO ENSURE THAT THOSE UTILITIES NOT REQUIRING RELOCATION WILL NOT BE DISTURBED. CONTRACTOR SHALL BE RESPONSIBLE TO REPAIR UTILITIES DAMAGED DURING CONSTRUCTION. SPRINKLER SYSTEMS SHALL BE REPAIRED BY CONTRACTOR AT NO COST TO OWNER.
- THE CONTRACTOR SHALL CONDUCT HIS OPERATIONS IN SUCH A MANNER TO COMPLY WITH ALL FEDERAL, STATE, AND LOCAL CODES FOR NOISE LEVELS, VIBRATIONS, OR ANY OTHER RESTRICTIONS WHILE REMOVING PAVEMENT OR FOR ANY OTHER CONSTRUCTION OPERATIONS WITHIN THIS CONTRACT TO BE INCLUDED IN THE RESPECTIVE ITEM OF WORK.
- CONTRACTOR AGREES TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROTECTION OF PROPERTY.
- THE CONTRACTOR SHALL DESIGN, CONSTRUCT, AND MAINTAIN ALL SAFETY DEVICES, AND SHALL BE SOLELY RESPONSIBLE FOR CONFORMING TO ALL LOCAL, STATE, AND FEDERAL SAFETY AND HEALTH STANDARDS, LAWS, AND REGULATIONS. ALL TRAFFIC CONTROL ACTIVITIES SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST VERSION OF THE MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AND SHALL SUBMIT ALL REQUESTS TO OWNER'S REPRESENTATIVE AT LEAST SEVENTY-TWO (72) HOURS PRIOR TO THE ANTICIPATED NEED TO CLOSE AREAS.
- CONTRACTOR IS RESPONSIBLE FOR OBTAINING ANY NECESSARY PERMITS AND CONFORMING TO ALL APPLICABLE PERMIT REQUIREMENTS.
- CONTRACTOR SHALL SUBMIT ALL MATERIAL SUBMITTALS REQUIRED BY THE PROJECT SPECIFICATIONS INCLUDING ASPHALT CONCRETE AND PORTLAND CEMENT CONCRETE MIX DESIGNS TO ENGINEER A MINIMUM OF 14 DAYS PRIOR TO BEGINNING FIELD WORK.
- CONTRACTOR IS RESPONSIBLE FOR LAYOUT AND FIELD VERIFICATION. ADJUST CATCHBASINS AS REQUIRED. CONTRACTOR IS RESPONSIBLE FOR PROVIDING POSITIVE DRAINAGE. DRAINAGE ISSUES SHALL BE BROUGHT TO THE ATTENTION OF SME PRIOR TO PLACEMENT OF ANY PAVEMENT STRUCTURE LAYERS. AREAS OF PONDING WATER SHALL BE REPAIRED BY FULL DEPTH PATCHING AT NO ADDITIONAL COST TO OWNER. CONTRACTOR SHALL PERFORM WALKTHROUGH WITH OWNER AND SME BEFORE PLACEMENT OF ASPHALT CONCRETE LEVELING COURSE TO REVIEW PROPOSED GRADES.
- OBJECTS DESIGNATED TO REMAIN INCLUDING SIDEWALKS, PAVEMENT, CURB, LIGHT POLES, TRAFFIC SIGNS, LANDSCAPE AREAS, ETC. SHALL BE PROTECTED. IF DAMAGED BY THE CONTRACTOR, IT SHALL BE REPAIRED TO OWNER SATISFACTION AT NO ADDITIONAL COST TO THE OWNER.
- UPON COMPLETION OF EACH DAY OF WORK, THE CONTRACTOR SHALL BE RESPONSIBLE FOR LEAVING THE WORK AREA FREE OF HAZARDS AND SHALL PROVIDE ALL NECESSARY TEMPORARY SIGNS, WARNING DEVICES, AND BARRICADES.
- THE CONTRACTOR SHALL HAVE AN APPROVED SET OF FINAL PLANS MARKED "ISSUED FOR CONSTRUCTION" ON THE JOB SITE AT ALL TIMES. THE CONTRACTOR SHALL KEEP ACCURATE AND LEGIBLE RECORDS OF ALL CHANGES OF WORK THAT OCCUR DURING CONSTRUCTION AND INFORMATION ON "AS-BUILT" CONDITIONS. DOCUMENTATION OF CHANGES AND AS-BUILT INFORMATION SHALL BE RECORDED ON AN APPROVED SET OF FINAL PROJECT PLANS AND DELIVERED TO SME AFTER COMPLETION OF WORK.
- THE CONTRACTOR SHALL TAKE THE NECESSARY STEPS TO PROTECT THE PROJECT AND ADJACENT PROPERTY FROM ANY EROSION AND SILTING THAT RESULT FROM THE CONSTRUCTION BY APPROPRIATE MEANS UNTIL SUCH TIME THE PROJECT IS COMPLETED AND ACCEPTED FOR MAINTENANCE BY OWNER.

SURVEY NOTE

- THE SITE PLANS WERE DEVELOPED BASED ON DRAWINGS PROVIDED BY THE OWNER AND A TOPOGRAPHICAL SURVEY BY SME. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING LOCATIONS OF EXISTING STRUCTURES AND VERIFYING QUANTITIES. THE CONTRACTOR IS RESPONSIBLE FOR FINAL LAYOUT AND PROVIDING POSITIVE DRAINAGE.

EARTHWORK NOTES

- ALL NATURAL SOIL LEFT IN PLACE, IN CUT SECTIONS, SHALL BE COMPACTED TO NOT LESS THAN 95 PERCENT OF MAXIMUM DRY DENSITY OF THE MATERIAL AS DETERMINED BY THE MODIFIED PROCTOR TO A MINIMUM DEPTH OF 12 INCHES.
- THE LIMIT OF EARTH DISTURBANCE SHALL BE THE SLOPE STAKE LINE UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- ALL SLOPES SHALL BE CLASS A SLOPES.
- AREAS DISTURBED BY THE CONTRACTOR OR SUBCONTRACTOR SHALL BE RESTORED AS SPECIFIED IN THE SOIL EROSION AND SEDIMENTATION CONTROL PLAN, RESTORATION PLAN OR DIRECTED BY THE ENGINEER. NO ADDITIONAL PAYMENT OR COMPENSATION WILL BE ALLOWED FOR AREAS DISTURBED OUTSIDE THE SLOPE STAKE LINE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE PROPERTY BEYOND THE GRADING LIMITS, INCLUDING EXISTING FENCING, LAWN, TREES, SHRUBBERY, AND SIDEWALKS.

EARTH EXCAVATION NOTES

- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE TEMPORARY STORAGE AREAS FOR EXCAVATED MATERIAL WHICH MAY BE USED AS EMBANKMENT MATERIAL IN OTHER AREAS IF IT IS SUITABLE MATERIAL AS DETERMINED BY THE ENGINEER. ANY EXTRA HANDLING OF EXCAVATED MATERIAL IS CONSIDERED INCLUDED IN THESE PAY ITEMS.
- EXCAVATION DROP-OFFS GREATER THAN 8 INCHES SHALL BE PROTECTED BY 4 FT TALL ORANGE PLASTIC SAFETY FENCE (SNOW FENCE) SECURELY ATTACHED TO GROUND DRIVEN STAKES WHEN LEFT OVERNIGHT. SAFETY FENCING SHALL BE MAINTAINED UNTIL AREA IS WITHIN 8 INCHES OF ADJACENT GRADE. PAYMENT FOR THIS WORK IS INCLUDED IN TRAFFIC CONTROL LUMP SUM UNIT PRICE.

SOIL BORING NOTES

- THE SOIL BORINGS LOGS DEPICT POINT LOCATIONS AND DO NOT INFER THAT THE SURFACE CONDITIONS ARE THE SAME IN OTHER AREAS. BORING LOCATIONS ARE SHOWN ON THE PLANS, SOIL BORING LOGS ARE AVAILABLE UPON REQUESTOR INCLUDED WITH THE SPECIFICATIONS.

SITE GRADING NOTES

- PROPOSED ELEVATIONS ARE SHOWN WHERE SIGNIFICANT GRADE CHANGES ARE ANTICIPATED. IF PROPOSED GRADES ARE NOT SHOWN THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING POSITIVE DRAINAGE WITH MIN. SLOPE OF 1.5%. LONGITUDINAL SLOPE ALONG GUTTER LINES SHALL BE 0.5% MIN.
- PRIOR TO INSTALLING ANY PAVEMENT LAYERS, THE CONTRACTOR SHALL REVIEW THE PROPOSED SITE GRADES WITH THE ENGINEER TO IDENTIFY AND RECTIFY ANY COMPLICATIONS.
- PROPOSED SIDEWALKS SHALL HAVE MIN. 1.0% AND MAX. 2.0% CROSS SLOPE.
- CONTRACTOR SHALL ADJUST ALL UTILITY RIMS LOCATED WITHIN THE WORK LIMITS AS NECESSARY TO BE FLUSH WITH THE PROPOSED FINISHED SURFACE. THIS INCLUDES ALL STORM MANHOLES, CATCH BASINS, CLEANOUTS, SANITARY MANHOLES AND CLEANOUTS, WATER MAIN MANHOLES, GATE VALVES, AND BOXES OR ANY OTHER UTILITY RIMS OR BOXES.
- WHERE PROPOSED PAVEMENT ABUTS EXISTING PAVEMENT DESIGNATED TO REMAIN, MATCH ELEVATIONS UNLESS INDICATED OTHERWISE ON THE PLANS.
- ADJUST GUTTER PAN FROM SPILL IN TO SPILL OUT AS REQUIRED TO ACHIEVE POSITIVE DRAINAGE.
- ADJUST ELEVATION OF CURB REPAIRS AS REQUIRED TO ACHIEVE POSITIVE DRAINAGE.
- TAPER CURB HEIGHT TO 0" IN 10' WHEN ABUTTING TO EX. PAVEMENT WITHOUT CURB.

GENERAL PAVING NOTES

- NEW PAVEMENT SHALL BE OF THE TYPE, THICKNESS AND CROSS-SECTION INDICATED ON THE PLANS.
- MATCH EXISTING ELEVATIONS WHERE NEW PAVEMENT ABUTS EXISTING PAVEMENTS OR OTHER FIXED OBJECTS.
- CONTRACTOR SHALL MATCH EXISTING STRIPING PATTERNS UNLESS OTHERWISE SHOWN ON THE PLANS. CONTRACTOR SHALL DOCUMENT EXISTING STRIPING PATTERN PRIOR TO REMOVAL OF ANY PAVEMENT.
- CONTRACTOR IS RESPONSIBLE FOR LAYOUT TO PROVIDE POSITIVE SITE DRAINAGE. WATER PONDING AND BIRD BATHS SHALL BE CORRECTED AS DIRECTED BY THE BEGINNER AT NO ADDITIONAL COST TO THE OWNER.
- NEW AGGREGATE BASE REQUIRED SHALL BE MDOT 21AA CRUSHED LIMESTONE MATERIAL.
- SUBGRADE SOIL FOUND TO BE UNSUITABLE SHALL BE RECONDITIONED OR REPLACED AS DIRECTED BY THE ENGINEER, INCLUDING THE NECESSARY FINE GRADING TO ENSURE THAT MINIMUM SPECIFIED PAVEMENT THICKNESS IS ACHIEVED.

TRAFFIC CONTROL NOTES

- OBTAIN WRITTEN PERMISSION FROM OWNER'S REPRESENTATIVE WHEN ROADS, SIDEWALKS AND PARKING LOTS NEED TO BE CLOSED PRIOR TO CLOSING ANY PAVED AREA.
- SUBMIT ALL REQUESTS TO OWNER'S REPRESENTATIVE AT LEAST SEVENTY-TWO (72) HOURS PRIOR TO THE ANTICIPATED NEED TO CLOSE ANY PAVED AREA.
- PROVIDE ALTERNATE TRAFFIC ROUTES AROUND CLOSED OR OBSTRUCTED TRAFFIC ROUTES AS NECESSARY OR REQUIRED BY OWNER'S REPRESENTATIVE.
- THE CONTRACTOR IS RESPONSIBLE FOR FURNISHING, PLACING AND MAINTAINING ALL TRAFFIC CONTROL DEVICES ACCORDING TO THE LATEST EDITION OF THE "MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES."

DEMOLITION/REMOVAL NOTES

- SAWCUT FULL DEPTH THE PAVEMENT, SIDEWALK AND CURB DESIGNATED TO BE REMOVED AT THE LIMITS OF WORK SHOWN ON THE PLANS OR MARKED IN THE FIELD.
- REMOVE ONLY THE STRUCTURES AND PAVEMENTS WITHIN THE LIMITS OF WORK AS DETAILED ON THE PLANS AND CROSS SECTIONS. ALL OTHER STRUCTURES AND PAVEMENT SHALL BE PROTECTED AS REQUIRED.
- ALL EXISTING UNDERGROUND UTILITIES WITHIN THE AREA OF WORK SHALL REMAIN AND BE PROTECTED DURING CONSTRUCTION, UNLESS, OTHERWISE DESIGNATED TO BE REMOVED. CONTRACTOR SHALL VERIFY EXACT LOCATION AND DEPTHS OF ALL EXISTING UTILITIES PRIOR TO COMMENCEMENT OF DEMOLITION OPERATIONS.
- CONTRACTOR SHALL DISPOSE OF ALL CONCRETE, ASPHALT, AGGREGATE BASE AND SUBGRADE SPOILS AT LEGAL DISPOSAL SITE. CONTRACTOR SHALL PAY FOR ALL TRUCKING AND DISPOSAL COSTS.
- MATERIAL AND SITE FEATURES HAVING SALVAGE VALUE SHALL BECOME THE PROPERTY OF THE OWNER UNLESS SPECIFIED OTHERWISE. ALL OTHER MATERIAL AND DEBRIS ACCUMULATED AS A RESULT OF DEMOLITION/REMOVAL/REPAIR ACTIVITIES SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND DISPOSED OF IN A LEGAL MANNER.
- EXISTING WIRING AND ELECTRICAL OUTLETS SHALL BE CONSIDERED INCIDENTAL TO ELECTRICAL FEATURE DEMOLITION/REMOVAL.

CURB REPAIR NOTES

- SAWCUT THE CURB AREAS DESIGNATED FOR REPAIR AT THE LIMITS MARKED IN THE FIELD BY OWNER'S REPRESENTATIVE.
- REMOVE EXISTING CONCRETE WITHOUT CAUSING DAMAGE OR SPALLING TO ADJACENT SIDEWALK OR CURBS WHICH ARE DESIGNATED TO REMAIN. DAMAGED AREAS SHALL BE REMOVED AND REPLACED TO THE SATISFACTION OF THE OWNER AT NO ADDITIONAL COST.
- DRILL AND EPOXY GROUT TWO (2) #5 (18 INCH LONG EPOXY COATED) DEFORMED BARS A MINIMUM OF 6 INCHES INTO EXISTING CONCRETE CURBS (TWO FACES) WHICH ARE DESIGNATED TO REMAIN.
- MATCH EXISTING CURB GEOMETRY.
- PLACE AND CONSOLIDATE CONCRETE IN THE REPAIR AREA TO MATCH THE ELEVATION OF ADJACENT CURB AND SIDEWALK AREAS TO MAINTAIN POSITIVE DRAINAGE. FINISH CURBS TO MATCH FINISH OF ADJACENT AREAS WHICH ARE DESIGNATED TO REMAIN.
- VOID/HOLES (HONEYCOMB AREAS) ON THE CURB BACK/FACE SHALL BE REPAIRED WITH CEMENT MORTAR PASTE TO THE SATISFACTION OF THE OWNER.

CLEANUP AND RESTORATION NOTES

- PROTECT ADJACENT AREAS OUTSIDE OF PROJECT LIMITS DURING CONSTRUCTION. RESTORE ALL DISTURBED AREAS TO MATCH EXISTING CONDITIONS UNLESS OTHERWISE NOTED ON THE PROJECT PLANS. RESTORE GRASS AREAS WITH MINIMUM 4" OF TOPSOIL AND SOO UNLESS OTHERWISE NOTED ON THE PLANS. HYDRO SEED MAY BE USED WITH ENGINEERS APPROVAL. INSTALL SLOPE RESTORATION TYPE AS INDICATED ON PLAN.
- UPON COMPLETION OF WORK, THE ENTIRE SITE SHALL BE CLEARED OF EQUIPMENT, UNUSED MATERIALS, AND RUBBISH AND ANY DISTURBED AREAS RESTORED TO THE SATISFACTION OF THE OWNER.
- FINAL PAYMENT WILL NOT BE MADE UNTIL THE SITE IS CLEARED, RESTORED AND CLEANED PER THE PROJECT SPECIFICATIONS.

ABBREVIATIONS USED IN DRAWINGS

THE FOLLOWING ABBREVIATIONS ARE USED ON THESE PLANS:

@	AT (RATE OF)
&	AND
"	INCH
#	FOOT
AC	NUMBER
ADA	ASPHALT CONCRETE = ASPHALT PAVEMENT/HOT MIX ASPHALT PAVEMENT
AGG	AMERICANS WITH DISABILITIES ACT (BARRIER FREE ACCESS)
ALT	AGGREGATE BASE
APPROX.	ALTERNATE
ARCH.	APPROXIMATE/APPROXIMATELY
ASTM	ARCHITECT
AVG	AMERICAN SOCIETY FOR TESTING AND MATERIALS
B	AVERAGE
BDY	BORING
BIT	BOUNDARY
BF	BITUMINOUS
BFF	BARRIER FREE
BLDG	BANK FULL FLOOD
BM	BUILDING
BOLL	BENCHMARK
BOT	BOLLARD
BRG	BOTTOM
BSMT	BEARING
BOW	BASEMENT
C	BOTTOM OF WALL
CAP	CORE
CB	CAPACITY
CENTL	CATCH BASIN
CF	CENTERLINE
CHANN.	CUBIC FEET
CJ	CHANNEL
CLS	CONTROL JOINT
CL	CRUSHED LIMESTONE
CMP	CENTERLINE
CMU	CORRUGATED METAL PIPE
CO	CONCRETE MASONRY UNIT
COEF	CLEAN OULT
COL	COEFFICIENT
COMM/COMM.	COLUMN
CONC.	COMMUNICATIONS
CONN.	CONCRETE
COV.	CONNECTION
CULV.	COVER
CYP	CULVERT
CY	CORRUGATED PLASTIC PIPE
DIAM/DIA.	CUBIC YARD
DI	DIAMETER
DIM/DIM.	DUCTILE IRON
DEG/DEG.	DIMENSION
DEMO/DEMO.	DEGREE
DEPT.	DEG/DEG.
DMH	DEMOLITION
DS	DEPARTMENT
E	DROP MANHOLE
EE	DOWNSPOUT
EG	EACH
EHH	EAST
ELEV.	EACH END
EM	EDGE OF GRAVEL
ENG/ENG.	ELECTRICAL HAND HOLE
ENT.	ELEVATION
EQUIP.	EDGE OF METAL
ES	ENGINEER
EXCAV/EXCAV.	ENTRANCE
EXFEX	EQUIPMENT
EXP	END SECTION
FD	EXCAVATE
FDC	EXISTING
FDN	EXPANSION
FDR	FLOOR DRAIN
FF	FIRE DEPARTMENT CONNECTION
FG	FOUNDATION
FURN.	FULL DEPTH RECLAMATION
FP	FINISH FLOOR
FT	FINISH GRADE
FTG	FURNISH
ELEV.	FLOOD PLAIN
EQUIP.	FEET/FOOT
GAL/GAL.	FOOTING
GEN.	ELEVATION
GIS	EQUIPMENT
GU	GALLON
GV/GVA	GENERAL
GVL	GEOGRAPHIC INFORMATION SYSTEM
HD	GUTTER
HDPE	GATE VALVE
HH	GRAVEL
HP	HEAVY DUTY
HGL	HIGH DENSITY POLYETHYLENE
HMA	HANDHOLE
HORIZ/HORIZ.	HIGH POINT
HYD	HYDRAULIC GRADE LINE
INT	HOT MIX ASPHALT PAVEMENT
LD	HORIZONTAL
LF	HYDRANT
LP	INSTALL
MAX/MAX.	LIGHT DUTY
ME	LINEAR FEET
MDOT	LOW POINT
MH	MAXIMUM
MIN/MIN.	MATCH EXISTING
N	MICHIGAN DEPARTMENT OF TRANSPORTATION
NIC	MANHOLE
NO	MINIMUM
NFV	NORTH
NTS	NOT IN CONTRACT
OC	NUMBER
OD	NOT FIELD VERIFIED
OD	NOT TO SCALE
PCC	ON CENTER
PVC	OUTSIDE DIAMETER
PR	PORTLAND CEMENT CONCRETE = CONCRETE
RCP	POLYVINYL CHLORIDE
RY	PROPOSED
S	REINFORCED CONCRETE PIPE
SAN	REAR YARD
SB	SOUTH
SESC	SANITARY SEWER
SF	STABILIZED BASE COURSE
SG	SOIL EROSION AND SEDIMENT CONTROL
STM	SQUARE FEET
SF	SUBGRADE
TA	STORM SEWER
TC	SQUARE YARD
TERS	TOP OF HMA PAVEMENT ELEVATION
TOP	TOP OF PROPOSED CURB
TOW	TEMPORARY EARTH RETENTION SYSTEM
TP	TOP OF PAD (CONCRETE)
TP/TP.	TOP OF WALL
TW	TEST PIT
VB	TYPICAL
VCP	TOP OF SIDEWALK
VERT/VERT.	VAPOR BARRIER
VIF	VITRIFIED CLAY PIPE
VLT	VERTICAL
VOL	VERIFY IN FIELD
W	VAULT
WM	WEST
WTR	WATER MAIN
WWF	WATER
	WELDED WIRE FABRIC

DEFINITIONS USED IN DRAWINGS

THE FOLLOWING DEFINITIONS ARE USED ON THESE PLANS:

ENGINEER	SME
CITY	MARSHAL TOWNSHIP
COUNTY	CALHOUN
OWNER	MARSHAL TOWNSHIP



Orientation	Scale
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Project	MARSHAL TOWNSHIP FIRE STATION NO. 1
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Project Location	13550 15 MILE RD MARSHALL, MI 49068
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Engineer's Seal	
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	PRELIMINARY - NOT FOR CONSTRUCTION
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Revisions			
REV	ISSUED FOR	DATE	BY
01	SITE PLAN SUBMITTAL	01/15/2023	JWG

Date	12/15/2023
SME Project No.	094551.00
Project Manager:	J. GRAVES
Designer:	A. REED

CADD:	J. RIOS
Checked By:	A. REED

Reviewed By:	J. GRAVES
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Sheet Name:	GENERAL PROJECT NOTES
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Sheet No.	C-101
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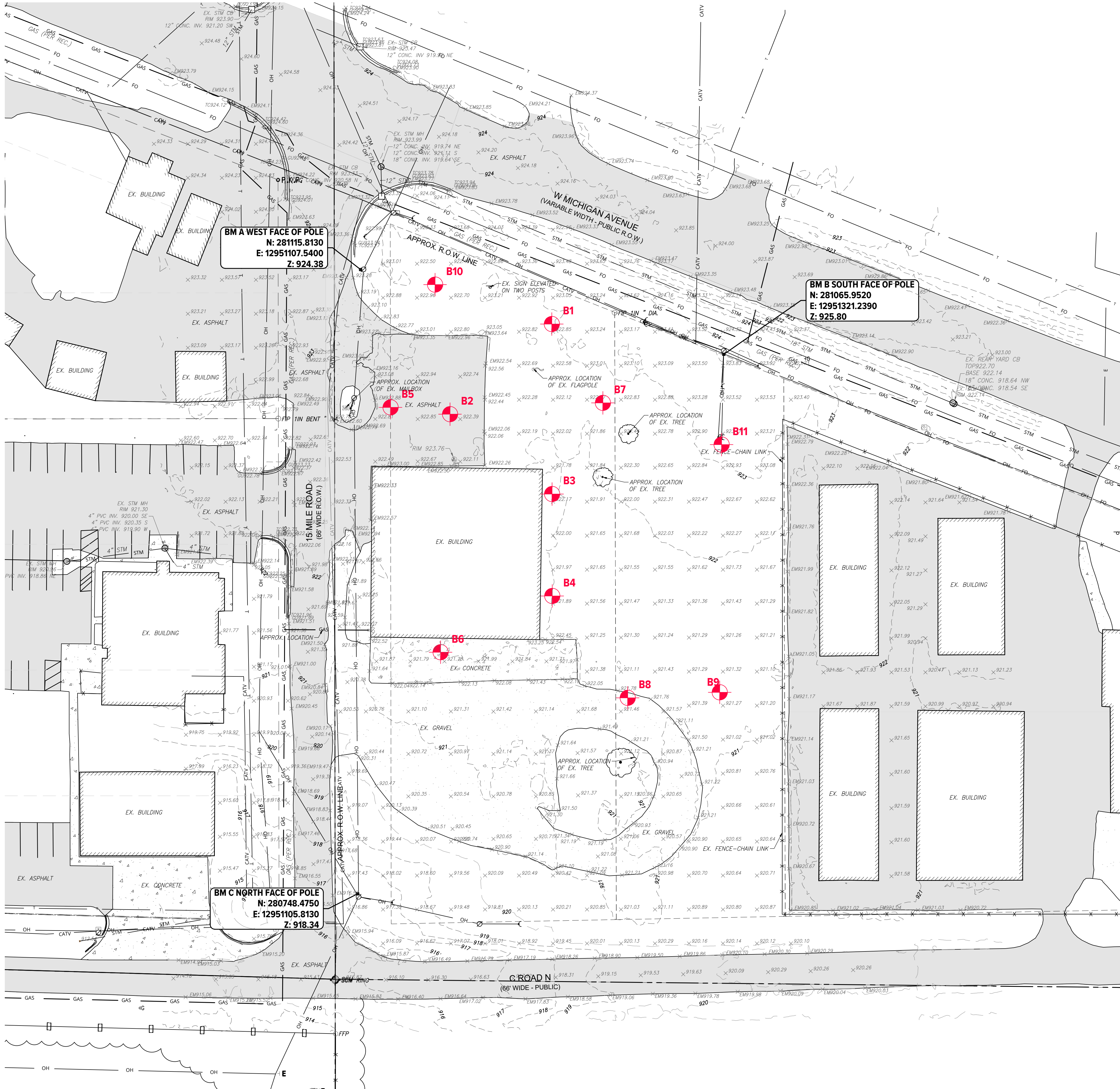


Know what's below.
Call before you dig.

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NO REPRODUCTION SHALL BE MADE WITHOUT THE PRIOR CONSENT OF SME
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BM A WEST FACE OF POLE
N: 281115.8130
E: 12951107.5400
Z: 924.38

BM B SOUTH FACE OF POLE
N: 281065.9520
E: 12951321.2390
Z: 925.80

BM C NORTH FACE OF POLE
N: 280748.4750
E: 12951105.8130
Z: 918.34

BENCHMARK DATA

BM A
 WEST FACE OF POWER POLE
 N: 281115.8130
 E: 12951107.5400
 ELEVATION = 924.38
 (NAVD88 DATUM)

BM B
 SOUTH FACE OF POWER POLE
 N: 281065.9520
 E: 12951321.2390
 ELEVATION = 925.80
 (NAVD88 DATUM)

BM C
 NORTH FACE OF POWER POLE
 N: 280748.4750
 E: 12951105.8130
 ELEVATION = 918.34
 (NAVD88 DATUM)



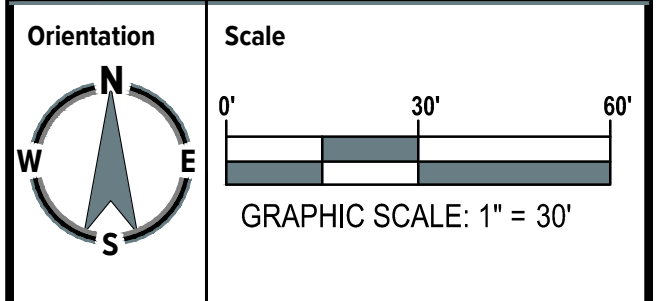
LOCATION MAP
 NOT TO SCALE

EXISTING LEGEND

- CONTOUR ——— 881
- INDEX CONTOUR ——— 880
- WATER MAIN ———
- STORM SEWER ———
- SANITARY SEWER ———
- CABLETV — CATV
- OVERHEAD UTILITY — OH
- FIBER OPTIC — FO
- GAS — GAS
- ELECTRICAL — E
- CHAIN LINK FENCE —
- IRON FENCE —
- WOOD FENCE —
- HYDRANT —
- GATE VALVE —
- POST INDICATOR VALVE (PIV) —
- WATER MAIN MANHOLE —
- SQUARE CATCH BASIN —
- ROUND CATCH BASIN —
- BEEHIVE CATCH BASIN —
- SANITARY MANHOLE —
- END SECTION —
- CULVERT —
- STORM MANHOLE —
- CLEAN OUT —
- SIGN —
- UTILITY POLE —
- RISER —
- LIGHT POLE —
- LANDSCAPE LIGHT —
- SPRINKLER —
- ELECTRICAL BOX/TRANSFORMER —
- ELECTRICAL MANHOLE —
- FLAG POLE —
- MAILBOX —
- TOP OF CURB —
- GUTTER —
- EX. GRADE —
- EDGE OF ASPHALT —
- TOP OF WALL —
- BOTTOM OF WALL —
- TREE —
- CONCRETE —
- ASPHALT PAVEMENT —
- GRAVEL —
- RIP-RAP —

NOTES

1. DRAWING BASED ON MICHIGAN STATE PLAN COORDINATES SYSTEM, SOUTH ZONE, INTERNATIONAL FEET.
2. THIS SURVEY WILL NOT SHOW ALL EASEMENTS OF RECORD UNTIL AN UPDATED TITLE POLICY HAS BEEN FURNISHED TO THE SURVEYOR BY THE OWNER.
3. ALL ELEVATIONS ARE EXISTING ELEVATIONS
4. THE LOCATION OF THE EXISTING UTILITIES AS SHOWN WERE OBTAINED FROM MUNICIPAL AND UTILITY COMPANIES RECORDS. NO GUARANTEE CAN BE MADE REGARDING THE COMPLETENESS OR EXACTNESS OF THE UTILITIES LOCATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY IN THE FIELD THE LOCATION OF ALL UTILITIES.
5. NO BOUNDARY SURVEY WAS PERFORMED.



Project
MARSHAL TOWNSHIP
FIRE STATION NO. 1

Project Location
13550 15 MILE RD
MARSHALL, MI 49068

Engineer's Seal

PRELIMINARY - NOT FOR CONSTRUCTION

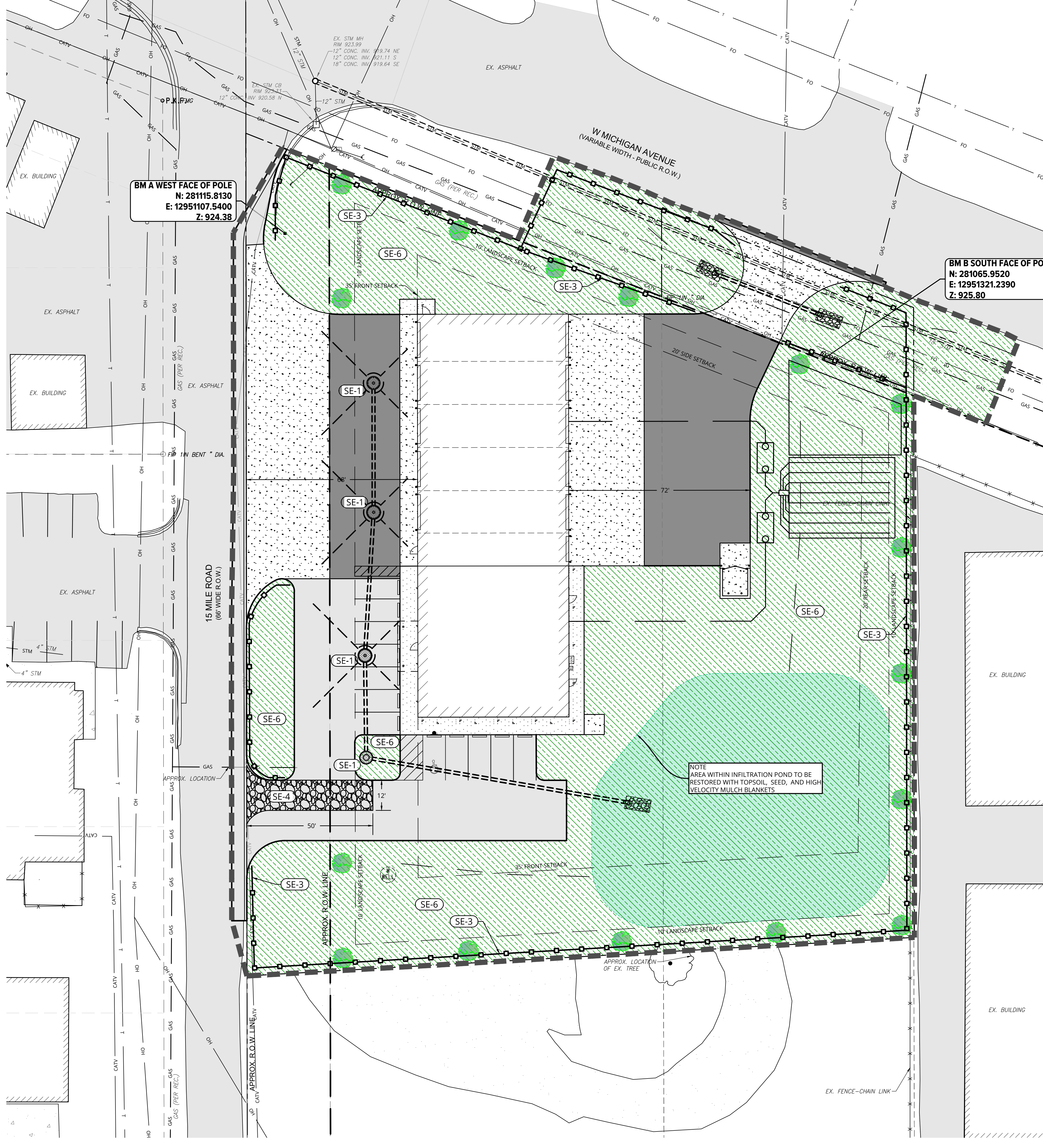
Revisions			
REV	ISSUED FOR	DATE	BY
01	SITE PLAN SUBMITTAL	01/15/2023	JWG

Date	12/15/2023
SME Project No.	094551.00
Project Manager:	J. GRAVES
Designer:	A. REED
CADD:	J. RIOS
Checked By:	A. REED
Reviewed By:	J. GRAVES
Sheet Name:	EXISTING SITE CONDITIONS
Sheet No.	C-200



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BM A WEST FACE OF POLE
 N: 281115.8130
 E: 12951107.5400
 Z: 924.38

BM B SOUTH FACE OF POLE
 N: 281065.9520
 E: 12951321.2390
 Z: 925.80

EXISTING LEGEND

CONTOUR	---
INDEX CONTOUR	---
WATER MAIN	---
STORM SEWER	---
SANITARY SEWER	---
CABLETV	---
FIBER OPTIC	---
GAS	---
ELECTRICAL	---
CHAIN LINK FENCE	---
IRON FENCE	---
WOOD FENCE	---
HYDRANT	---
GATE VALVE	---
POST INDICATOR VALVE (PIV)	---
WATER MAIN MANHOLE	---
SQUARE CATCH BASIN	---
ROUND CATCH BASIN	---
BEEHIVE CATCH BASIN	---
SANITARY MANHOLE	---
END SECTION	---
CULVERT	---
STORM MANHOLE	---
CLEAN OUT	---
SIGN	---
UTILITY POLE	---
RISER	---
LIGHT POLE	---
LANDSCAPE LIGHT	---
SPRINKLER	---
ELECTRICAL BOX/TRANSFORMER	---
ELECTRICAL MANHOLE	---
FLAG POLE	---
MAILBOX	---
TOP OF CURB	---
GUTTER	---
EX. GRADE	---
EDGE OF ASPHALT	---
TOP OF WALL	---
BOTTOM OF WALL	---
TREE	---
CONCRETE	---
ASPHALT PAVEMENT	---
GRAVEL	---
RIP-RAP	---



SOIL EROSION CONTROL LEGEND

I.D.	SYMBOL	DESCRIPTION
SE-1	[Symbol]	FURNISH AND INSTALL INLET PROTECTION FILTER PER GOVERNING AGENCIES STANDARDS AND SPECIFICATIONS
SE-2	[Symbol]	FURNISH AND INSTALL INLET PROTECTIVE FENCE AROUND YARD BASIN PER GOVERNING AGENCIES STANDARDS AND SPECIFICATIONS
SE-3	[Symbol]	FURNISH AND INSTALL SILT FENCE PER GOVERNING AGENCIES STANDARDS AND SPECIFICATIONS
SE-4	[Symbol]	FURNISH AND INSTALL STABILIZED CONSTRUCTION ENTRANCE PER GOVERNING AGENCIES STANDARDS AND SPECIFICATIONS
SE-5	[Symbol]	FURNISH AND INSTALL TREE PROTECTIVE FENCING PER GOVERNING AGENCIES STANDARDS AND SPECIFICATIONS
SE-6	[Symbol]	RESTORE AREA WITH 4" OF TOPSOIL, SEED AND MULCH
SE-7	[Symbol]	CONSTRUCTION STAGING AREA PER GOVERNING AGENCIES STANDARDS AND SPECIFICATIONS
SE-8	[Symbol]	FURNISH AND INSTALL EROSION CONTROL WATTLE
	[Symbol]	DISTURBED AREA 1.87 AC.

094551.00 - SOIL EROSION CONTROL SEQUENCE OF CONSTRUCTION AND INSPECTION

ITEM NO.	SESC WORK ITEM	SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SCHEDULE FOR NON DAILY ITEMS
1.0	INSTALL STONE TRACKING PAD PER EPA STANDARDS AND SPECIFICATIONS. SITE ACCESS TO BE COORDINATED WITH THE OWNER.		X	X	X	X	X	X	
1.1	SWEEP SITE PAVED SURFACES (WHEN DIRT / DUST ACCUMULATES TO COVER VEHICLE PATHS)								AS NEEDED
1.2	SCRAPE SITE PAVED SURFACES (WHEN DIRT ACCUMULATES TO COVER VEHICLE PATHS)								AS NEEDED
2.0	INSTALL SILT FENCING AND TREE PROTECTIVE FENCING		X	X	X	X	X	X	
3.0	INSTALL PAVEMENT INLET FILTERS		X	X	X	X	X	X	
4.0	STRIP AND STOCKPILE TOPSOIL								AS NEEDED
5.0	EXCAVATE TO ACCOMMODATE PROPOSED PAVEMENT SECTION								AS NEEDED
6.0	GRADE AND BALANCE AS REQUIRED. STABILIZE AREAS AND SLOPES								AS NEEDED
7.0	INSTALL UTILITIES STORM SEWER AND WATER MAIN UTILITIES. PLACE INLET FILTERS ON NEW STRUCTURES		X	X	X	X	X	X	AS NEEDED
8.0	INSTALL CONDUIT, ELECTRICAL, CABLE, TELEPHONE, IRRIGATION, ETC.								AS NEEDED
9.0	INSTALL HMA								AS NEEDED
10.0	ESTABLISH VEGETATION FOR ALL DISTURBED AREAS UTILIZING HIGH VELOCITY MULCH BLANKET AND HYDROSEED PER SPECIFICATIONS								AS NEEDED
11.0	CLEAN OUT STORM SEWER SYSTEM								AS NEEDED
12.0	REMOVE SILT FENCING, TREE PROTECTIVE FENCING AND PAVEMENT INLET FILTERS								FOLLOWING WRC APPROVAL

BENCHMARK DATA

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 E: 12951107.5400
 ELEVATION = 924.38 (NAVD88 DATUM)

BM B SOUTH FACE OF POWER POLE
 N: 281065.9520
 E: 12951321.2390
 ELEVATION = 925.80 (NAVD88 DATUM)

BM C NORTH FACE OF POWER POLE
 N: 280748.4750
 E: 12951105.8130
 ELEVATION = 918.34 (NAVD88 DATUM)

ZONING
 PROJECT LOCATED IN ZONING B-2, HIGHWAY COMMERCIAL

OWNER
 MR. JAMES DURIAN
 CEO
 MARSHALL AREA ECONOMIC DEVELOPMENT ALLIANCE
 323 WEST MICHIGAN AVENUE
 MARSHALL, MICHIGAN 49068

MAINTENANCE NOTES AND REQUIREMENTS

ALL TEMPORARY AND PERMANENT SOIL EROSION CONTROL MEASURE TO BE INSPECTED AND MAINTAINED WEEKLY AND AFTER EVERY STORM EVENT BY THE SELECTED CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR THE REGULAR INSPECTION AND MAINTENANCE OF ALL SOIL EROSION AND SEDIMENTATION CONTROL (SESC) MEASURES THROUGHOUT CONSTRUCTION IN ACCORDANCE WITH CITY, COUNTY AND STATE REQUIREMENTS.

SITE OPERATOR SHALL MAINTAIN A RECORD OF PRECIPITATION EVENTS ON A WEEKLY BASIS AND INDICATE IN MAINTENANCE SCHEDULE RECORDS WHEN PRECIPITATION EVENT TRIGGERS FURTHER EVALUATION AND MAINTENANCE.

PRECIPITATION OF 0.25 INCHES OR MORE IN 24 HOUR PERIOD SHALL BE RECORDED BY WEATHER UNDERGROUND OR LOCAL WEATHER STATION DATA.

REINSTALL OR OTHERWISE REPLACE SESC MEASURES IF FOUND TO BE DEFICIENT OR DO NOT MEET THE INTENDED FUNCTION.

SEDIMENT AND DEBRIS ACCUMULATIONS SHALL BE REGULARLY REMOVED FROM SITE ENTRANCES, CLEARINGS FROM SILT FENCE AND INLET FILTERS. SEDIMENT AND DEBRIS SHALL NOT BE PERMITTED TO MIGRATE OUTSIDE OF THE DISTURBANCE LIMITS INDICATED ON THESE DRAWINGS. ANY SILT OR MUD TRACKED ON PAVED SURFACES OUTSIDE OF THE AREA OF DISTURBANCE SHALL BE REMOVED IN A MANNER THAT DOES NOT GENERATE AIRBORNE DUST.

DUST CONTROL ACTIVITIES SHALL BE PERFORMED ON AN AS-NEEDED BASIS (MINIMUM OF ONCE PER DAY), AND SHALL CONSIST OF AT LEAST THE USE OF A WATER TRUCK.

EXCAVATION NOTES

1. EXCAVATED SOILS SHALL BE UTILIZED TO BACKFILL AND ROUGH GRADE BEHIND CURBS.

2. EXCESS EXCAVATED SOILS SHALL BE TRANSPORTED OFF SITE AND DISPOSE IN A LEGAL MANNER.

RESTORATION NOTES

FOLLOWING FINAL GRADING CONTRACTOR SHALL INSTALL 4 INCHES OF TOPSOIL AND SEED OF DISTURBED AREAS.

FURNISH AND INSTALL SOIL EROSION BLANKET ON ALL DISTURBED AREAS WITH SLOPES FLATTER THAN 1V:2H.

FURNISH AND INSTALL HIGH VELOCITY SOIL EROSION BLANKET ON ALL DISTURBED AREAS WITH SLOPE STEEPER THAN 1V:2H.

SOIL TYPES ON SITE

25A Kalamazoo loam, 0 to 2 percent slopes
 (SOIL INFORMATION TAKEN FROM THE UNITED STATES DEPARTMENT OF AGRICULTURE SOIL SURVEY)

EROSION CONTROL

EARTH DISTURBANCE IS NOT PERMITTED OUTSIDE THE NOTED DISTURBANCE LIMITS. DISTURBANCE IS NOT PERMITTED WITHIN THE FLOODPLAIN LIMITS.

EARTH EXCAVATION FOR THIS PROJECT SHALL INCLUDE THE EXCAVATION FOR UNDERGROUND UTILITIES AND SITE BALANCING TO REACH FINAL PAVEMENT SUBGRADE LEVELS.

THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ALL SOIL EROSION AND SEDIMENTATION CONTROL (SESC) MEASURES, INCLUDING DUST CONTROL.

THE FOLLOWING MINIMUM SESC MEASURES SHALL BE INSTALLED PRIOR TO CONSTRUCTION AND MAINTAINED UNTIL CONSTRUCTION IS COMPLETE AND TURF IS ESTABLISHED:

- MUD MATS AT SITE ENTRANCE/EXIT POINTS TO MINIMIZE THE TRACKING OF DEBRIS/SOIL ONTO ROADWAYS OR NEIGHBORING PROPERTY. MUD MATS SHALL CONSIST OF LARGE COARSE AGGREGATE OVERLYING A GEOTEXTILE SEPARATOR FABRIC.
- STOCKPILED SOILS SHALL BE COVERED OR OTHERWISE PROTECTED FROM ERODING INTO OFFSITE AREAS.
- THE CONTRACTOR SHALL ESTABLISH PERMANENT STABILIZATION OF ALL EXPOSED AREAS WITHIN 7 DAYS OF FINAL GRADING.
- BURLAP AND/OR STRAW BALES ARE NOT ALLOWED.
- SEDIMENT TRAPS (I.E. SILT SACKS) SHALL BE INSTALLED AT EXISTING AND NEWLY INSTALLED INLET STRUCTURES AND SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION.
- SILT FENCING SHALL BE INSTALLED ALONG THE PERIMETER OF THE DISTURBED LIMITS (SEE PLAN) AND MAINTAINED.

LEGAL DESCRIPTION

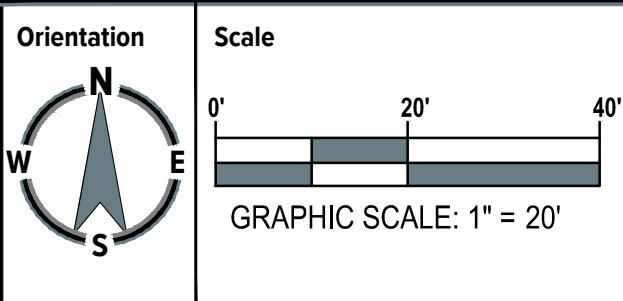
LAND SITUATED IN THE STATE OF MICHIGAN, COUNTY OF CALHOUN, TOWNSHIP OF MARSHALL. THE WEST 165 FEET OF THE SOUTHWEST 1/4 OF THE NORTHWEST 1/4 OF SECTION 27, TOWN 2 SOUTH, RANGE 6 WEST, LYING SOUTH OF OLD U.S. 12, EXCEPT THE NORTH 35 FEET.



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SEE SHEET D-100 AND D-101 FOR SWPPP NOTES AND DETAILS



Project
**MARSHAL TOWNSHIP
 FIRE STATION NO. 1**

Project Location
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 MARSHALL, MI 49068**

Engineer's Seal

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Revisions

REV.	ISSUED FOR	DATE	BY
01	SITE PLAN SUBMITTAL	01/15/2023	JWG

Date
12/15/2023

SME Project No.
094551.00

Project Manager:
J. GRAVES

Designer:
A. REED

CADD:
J. RIOS

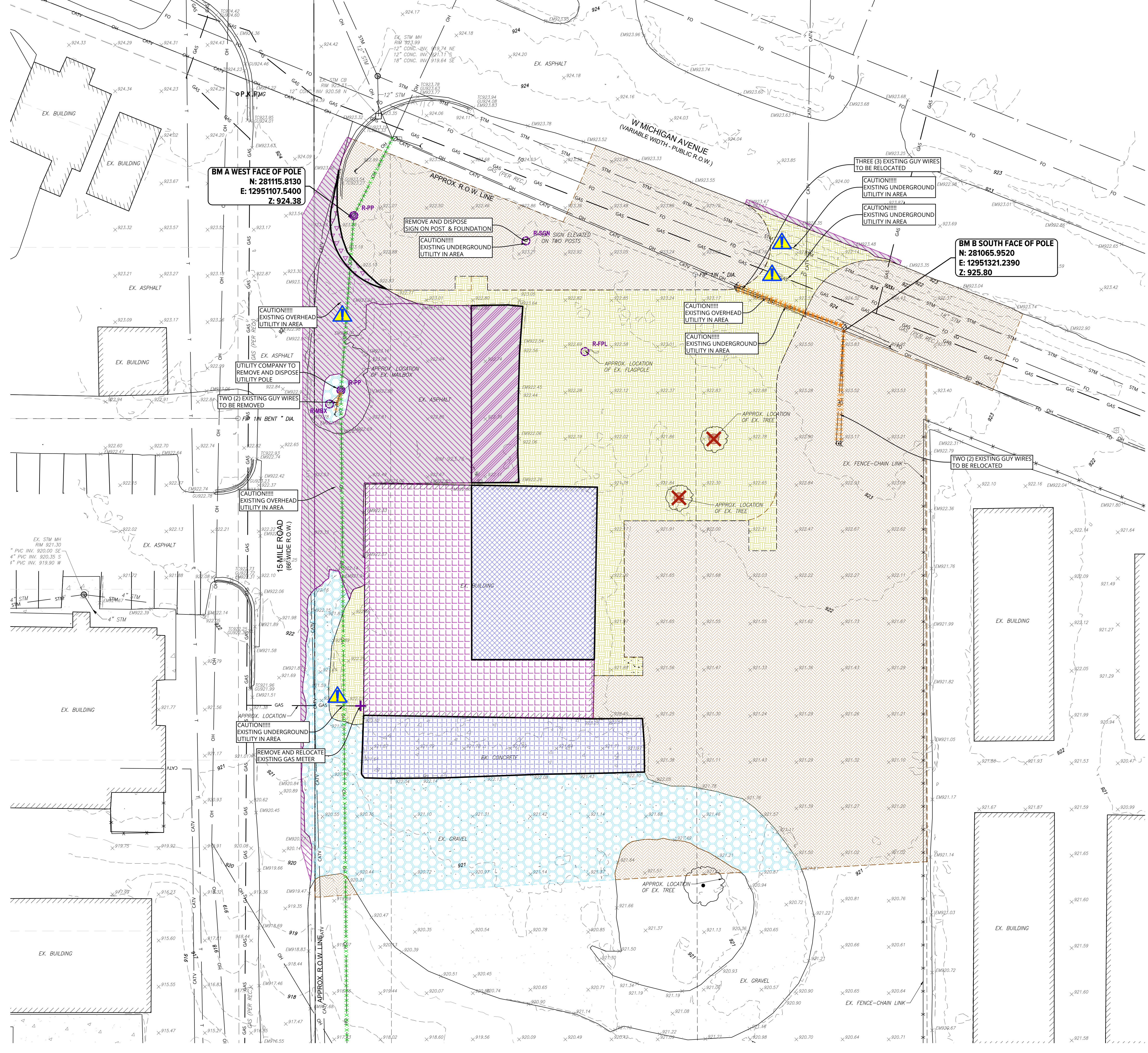
Checked By:
A. REED

Reviewed By:
J. GRAVES

Sheet Name:
**SESC AND SITE PREPARATION
 PLAN**

Sheet No.
C-300

FILE LOCATION: I:\sme\hcr\p094551\00\CADD\Design Files\CV2 - SFR\Rev\10494531\00-SESCandSitePrep_DPT.dwg
 Jan 15, 2024 - 12:00pm - samantha.paradise
 PLOT DATE:



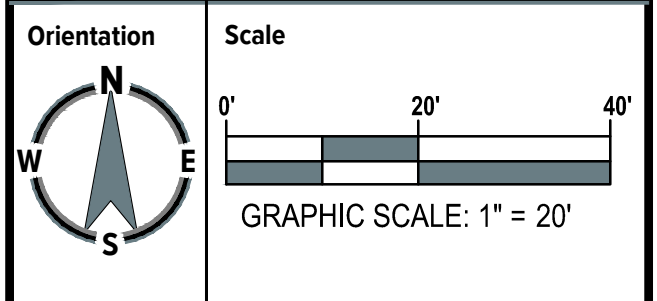
REMOVAL LEGEND

NOTE: REMOVAL SHALL INCLUDE SURFACE ITEMS NOTED BELOW IN ADDITION TO UNDERLYING BASE, SUBBASE, SUBGRADE AND DELETERIOUS MATERIAL TO ACCOMMODATE PROPOSED IMPROVEMENTS.

- REMOVE/EXCAVATE EXISTING ASPHALT TO ACCOMMODATE PROPOSED BUILDING
- SAWCUT AND REMOVE EXISTING ASPHALT TO ACCOMMODATE PROPOSED ASPHALT PAVEMENT SECTION
- SAWCUT AND REMOVE EXISTING PAVEMENT TO ACCOMMODATE PROPOSED GREENBELT
- DEMOLISH/REMOVE EXISTING BUILDING TO ACCOMMODATE PROPOSED BUILDING
- REMOVE/DEMOLISH EXISTING BUILDING FOR PROPOSED IMPROVEMENTS
- REMOVE/EXCAVATE EXISTING GRAVEL TO ACCOMMODATE PROPOSED IMPROVEMENTS
- SAWCUT AND REMOVE EXISTING CONCRETE PAVEMENT
- REMOVE/EXCAVATE EXISTING GREENBELT TO ACCOMMODATE PROPOSED IMPROVEMENTS
- AREA OF GRADING/EARTHWORK
- REMOVE EXISTING OVERHEAD UTILITY LINES
- EXISTING UTILITY POLE GUY WIRES TO BE REMOVED OR RELOCATED
- CAUTION!!! EXISTING UTILITY IN AREA (SEE EXISTING/RECORD UTILITIES NOTE, THIS SHEET)
- R-SGN REMOVE AND DISPOSE OF EXISTING SIGN, POST AND FOUNDATION.
- R-FPL REMOVE AND DISPOSE OF EXISTING FLAGPOLE, POST AND FOUNDATION.
- R-MBX REMOVE AND DISPOSE OF EXISTING MAILBOX, POST AND FOUNDATION.
- R-PP REMOVE AND DISPOSE OF EXISTING POWER POLE, GUY WIRES, AND ASSOCIATED ITEM.
- REMOVE/RELOCATE EXISTING MISC. ITEM AS NOTED.
- REMOVE AND DISPOSE OF EXISTING TREE.

EXISTING/RECORD UTILITIES NOTE

THE LOCATION OF THE EXISTING UTILITIES AS SHOWN WERE OBTAINED FROM MUNICIPAL AND UTILITY COMPANY RECORDS, FIELD OBSERVATIONS AND OWNER PROVIDED DRAWINGS. NO GUARANTEE CAN BE MADE REGARDING THE COMPLETENESS OR EXACTNESS OF THE UTILITIES LOCATION. IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY IN THE FIELD THE EXACT HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITIES SHOWN, REFERENCED OR MARKED IN THE FIELD. CONTRACTOR TO REPORT ANY CONFLICTS IN THE FIELD TO THE ENGINEER. CONTRACTOR METHODS FOR UTILITY LOCATING SHALL AT A MINIMUM INCLUDE UTILIZING A UTILITY LOCATING COMPANY, HYDRO EXCAVATION, SOFT DIG AND POT HOLING.



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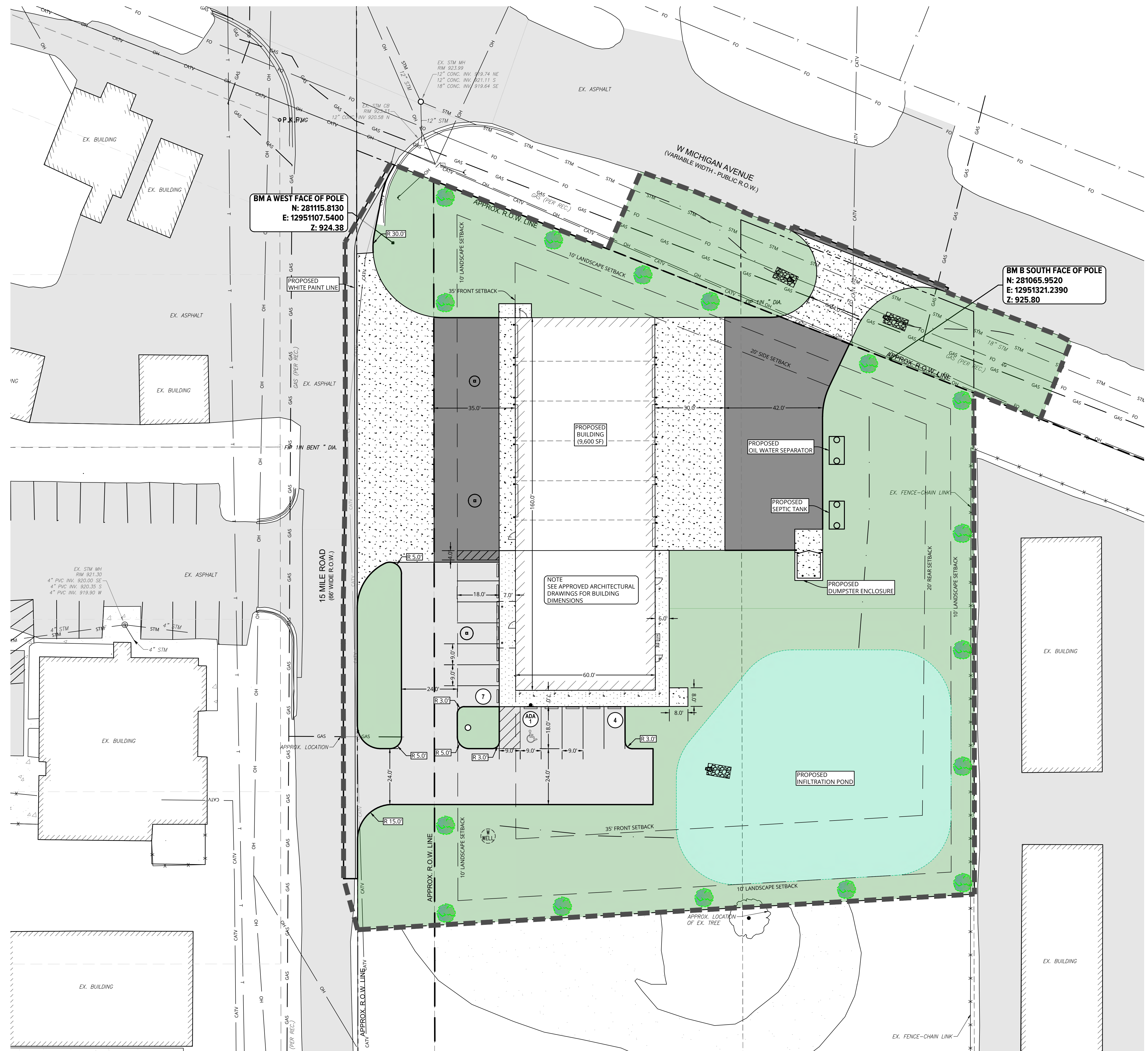
Revisions

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Date	12/15/2023
SME Project No.	094551.00
Project Manager:	J. GRAVES
Designer:	A. REED
CADD:	J. RIOS
Checked By:	A. REED
Reviewed By:	J. GRAVES
Sheet Name:	REMOVAL AND EXCAVATION PLAN
Sheet No.	C-400



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 N: 281065.9520
 E: 12951321.2390
 Z: 925.80

PROPOSED LEGEND

- PROPOSED PROJECT LIMITS
- FURNISH AND INSTALL MD HMA PAVEMENT SECTION
- FURNISH AND INSTALL HD HMA PAVEMENT SECTION
- PROPOSED CONCRETE SIDEWALK
- PROPOSED CONCRETE PAVEMENT SECTION
- PROPOSED GREENBELT
- PROPOSED INFILTRATION POND
- PROPOSED CONCRETE CURB AND GUTTER
- PROPOSED CONCRETE CURB AND GUTTER (REVERSE OR SPILLOUT)
- PROPOSED ADA RAMP (TYPE SPECIFIED PER PLAN) WITH TRUNCATED DOME
- PROPOSED SWALE
- PROPOSED 6' HIGH CHAIN LINK FENCE
- PROPOSED END SECTION
- PROPOSED SQUARE CATCH BASIN
- PROPOSED ROUND CATCH BASIN
- PROPOSED REAR YARD CATCH BASIN
- PROPOSED STORM MANHOLE
- PROPOSED LOWHEAD CATCH BASIN
- PROPOSED 2' DIA. INLET
- PROPOSED SANITARY SEWER MANHOLE
- FURNISH INSTALL BLUE PAINT ADA COMPLIANT BARRIER FREE PARKING LOGO
- PROPOSED ADA SIGN ON POST IN GREENBELT
- FURNISH AND INSTALL WHEEL STOP
- FURNISH AND INSTALL BOLLARD
- FURNISH AND INSTALL 4" WIDE PAINT STRIPES
- FURNISH AND INSTALL STRIPING @ 36" O.C.
- FURNISH AND INSTALL CROSS-WALK STRIPING
- FURNISH AND INSTALL PAINTED ARROWS
- PROPOSED STD./ADA STALL COUNT

SITE LAYOUT NOTE

SEE PAVING AND GRADING PLAN FOR FURNISH AND INSTALL NOTES AND REFERENCES TO SPECIFIC PAVEMENT SECTIONS

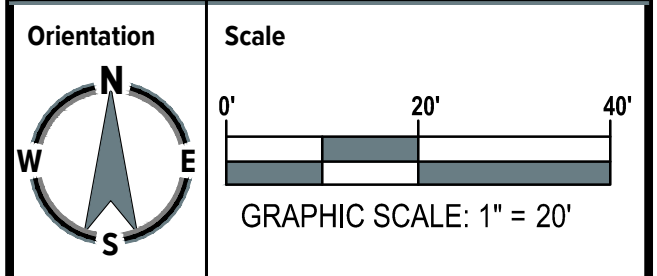
PROPOSED PARKING DATA :

STD STALLS PROVIDED = 11
 ADA STALLS (STD) PROVIDED = 0
 ADA VAN ACCESSIBLE PROVIDED = 1



Know what's below.
 Call before you dig.

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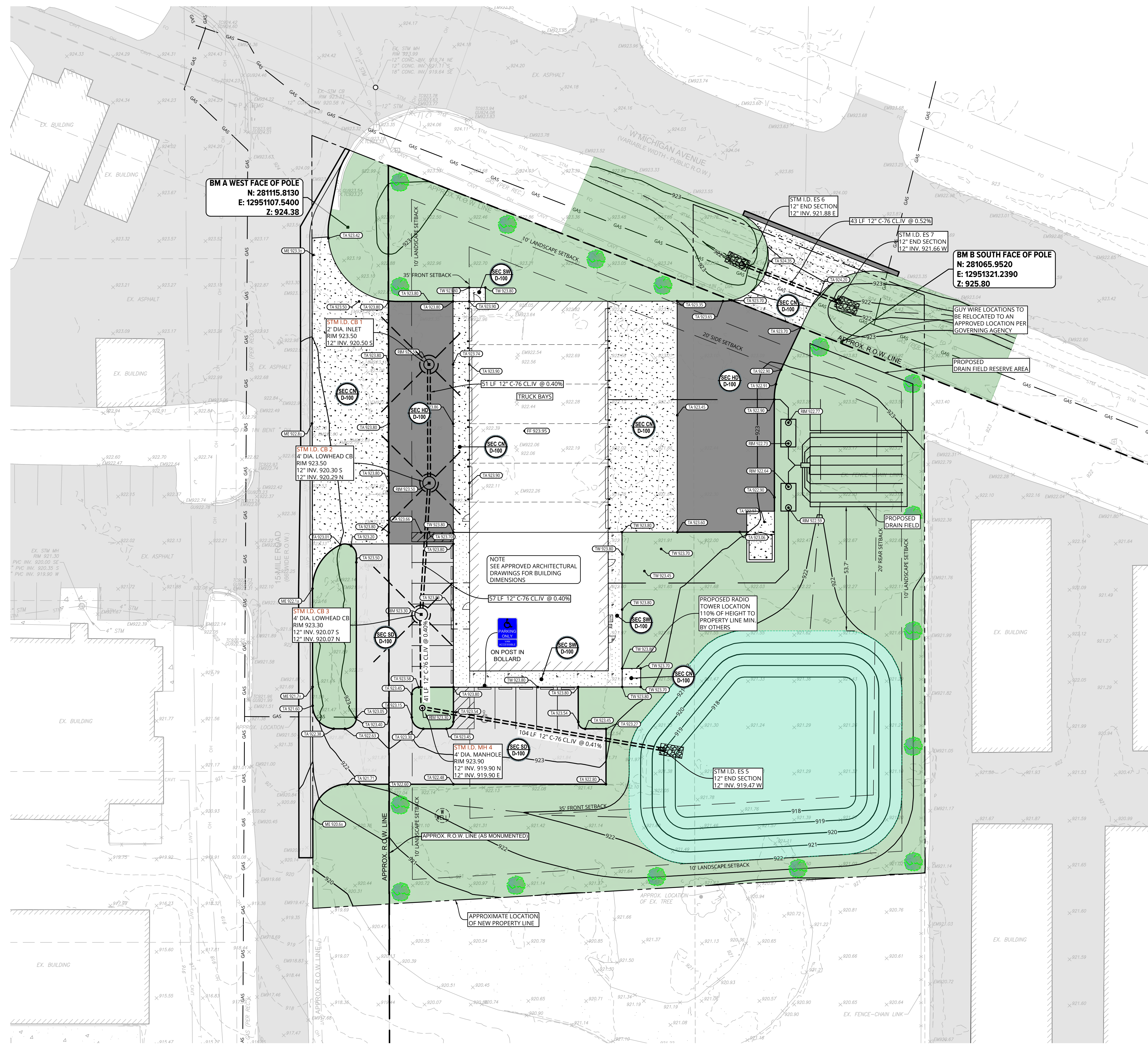
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01	SITE PLAN SUBMITTAL	01/15/2023	JWG

Date	12/15/2023
SME Project No.	094551.00
Project Manager:	J. GRAVES
Designer:	A. REED
CADD:	J. RIOS
Checked By:	A. REED
Reviewed By:	J. GRAVES
Sheet Name:	SITE LAYOUT PLAN
Sheet No.	C-500

DRAWING NOTE: SCALE DEPICTED IS MEANT FOR 24" X 36" AND WILL SCALE INCORRECTLY IF PRINTED ON ANY OTHER SIZE MEDIA. NO REPRODUCTION SHALL BE MADE WITHOUT THE PRIOR CONSENT OF SME © 2023
 FILE LOCATION: \\sme-hc\p1\MP\094551.00\CAD\Design Files\CIV2-SPAR\094551.00-SiteLayout_CPT.Lwg
 PLOT DATE: Jan 15, 2024 - 11:42am - samantha.pandey



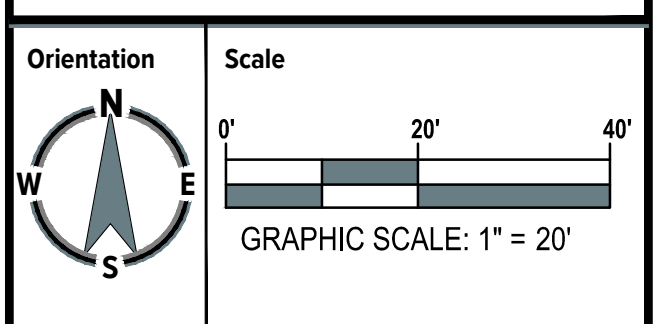
- ### SEC. I.D. INSTALL/PAVING LEGEND
- (SEE SHEET D-100 FOR PAVEMENT SECTION DETAILS)
- FURNISH AND INSTALL SD HMA PAVEMENT SECTION
 - FURNISH AND INSTALL HD HMA PAVEMENT SECTION
 - FURNISH AND INSTALL CONCRETE PAVEMENT SECTION
 - FURNISH AND INSTALL CONCRETE SIDEWALK
 - PROPOSED RETENTION AREA
 - PROPOSED GREENBELT
 - FURNISH AND INSTALL ADA SIGN ON POST ON BOLLARD
 - FURNISH AND INSTALL 6" UNDERDRAIN/EDGE DRAIN
 - FURNISH AND INSTALL SWALE
 - FURNISH AND INSTALL STORM SEWER PIPE
 - FURNISH AND INSTALL END SECTION
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 - FURNISH AND INSTALL ROUND CATCH BASIN
 - FURNISH AND INSTALL REAR YARD CATCH BASIN
 - FURNISH AND INSTALL STORM MANHOLE
 - FURNISH AND INSTALL LOWHEAD CATCH BASIN
 - FURNISH AND INSTALL 2" DIA. INLET
 - FURNISH AND INSTALL DOWNSPOUT
 - FURNISH AND INSTALL SANITARY CLEANOUT
 - FURNISH AND INSTALL SANITARY MANHOLE
 - FURNISH AND INSTALL SANITARY SEWER
 - FURNISH AND INSTALL STD. HYDRANT ASSEMBLY
 - FURNISH AND INSTALL GATE VALVE AND WELL
 - FURNISH AND INSTALL WHEEL STOP
 - FURNISH AND INSTALL BOLLARD
 - FURNISH AND INSTALL TREE

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01	SITE PLAN SUBMITTAL	01/15/2023	JWG

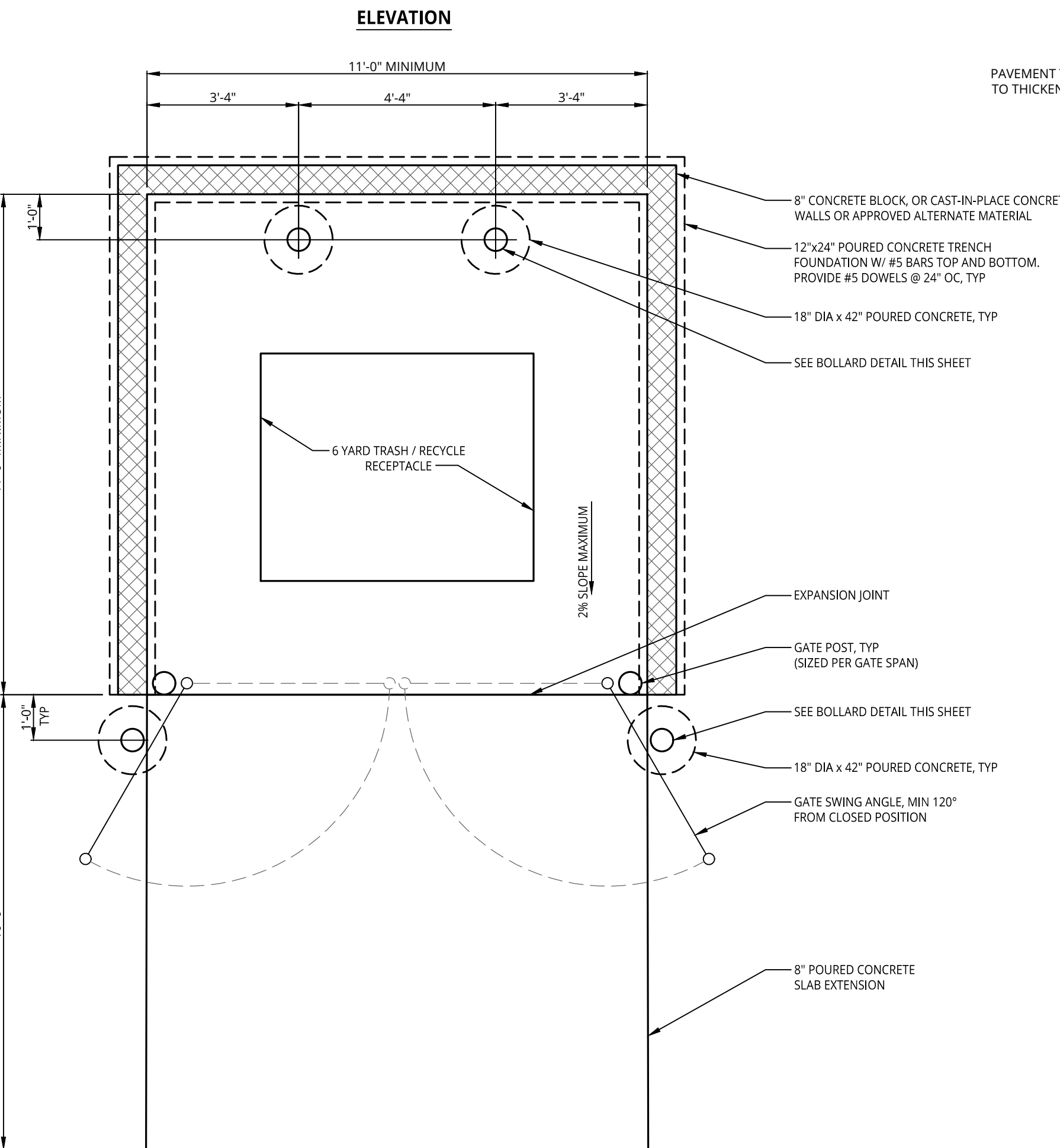
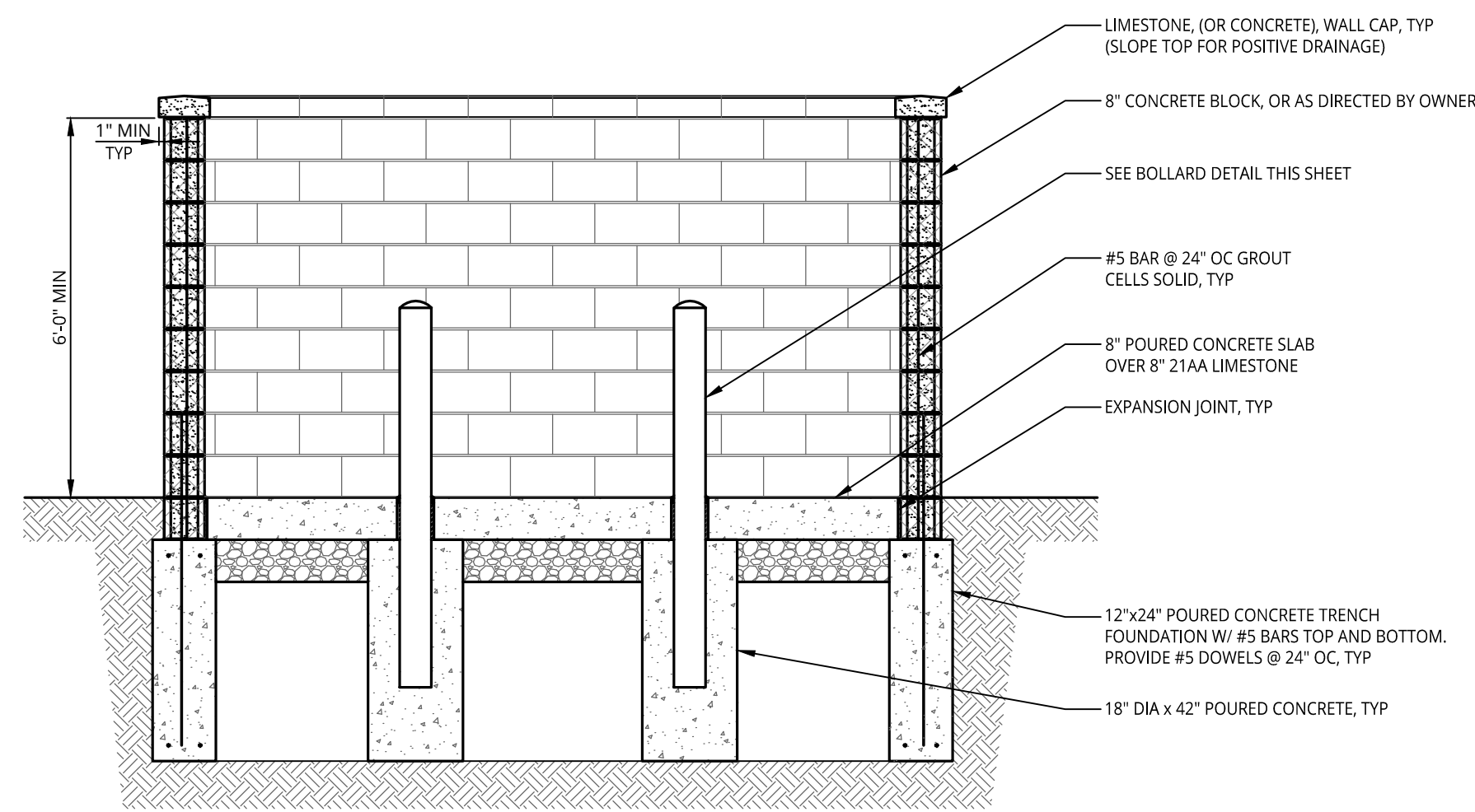
Date	12/15/2023
SME Project No.	094551.00
Project Manager:	J. GRAVES
Designer:	A. REED
CADD:	J. RIOS
Checked By:	A. REED
Reviewed By:	J. GRAVES
Sheet Name:	INSTALLATION, PAVING AND GRADING PLAN
Sheet No.	C-600

811
Know what's below.
Call before you dig.

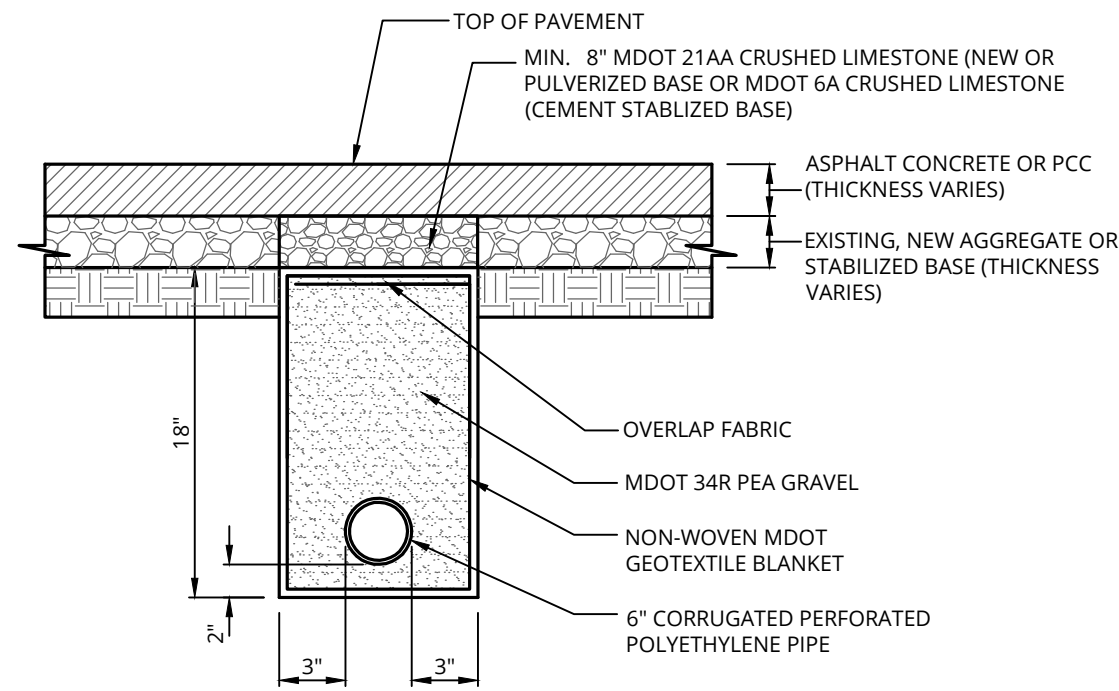
WARNING!
THE LOCATIONS AND ELEVATIONS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THIS DRAWING ARE ONLY APPROXIMATE. NO GUARANTEE IS EITHER EXPRESSED OR IMPLIED AS TO THE COMPLETENESS OR ACCURACY THEREOF. THE CONTRACTOR SHALL BE EXCLUSIVELY RESPONSIBLE FOR DETERMINING THE EXACT UTILITY LOCATIONS AND ELEVATIONS PRIOR TO THE START OF CONSTRUCTION.

CONSTRUCTION SITE SAFETY IS THE RESPONSIBILITY OF THE CONTRACTOR. NEITHER THE OWNER NOR THE ENGINEER SHALL BE EXPECTED TO ASSUME RESPONSIBILITY FOR SAFETY OF THE WORK OF PERSONS ENGAGED IN THE WORK, OF NEARBY STRUCTURES, NOR OF OTHER PERSONS.

FILE LOCATION: \\sme-inc\p\MP\094551.00\CADD\Design Files\CIV2-SPAR\01\094551-00-Install-Paving-Grading_OPT1.dwg
PLOT DATE: Jan 15, 2024 - 12:19pm - samantha.paradise

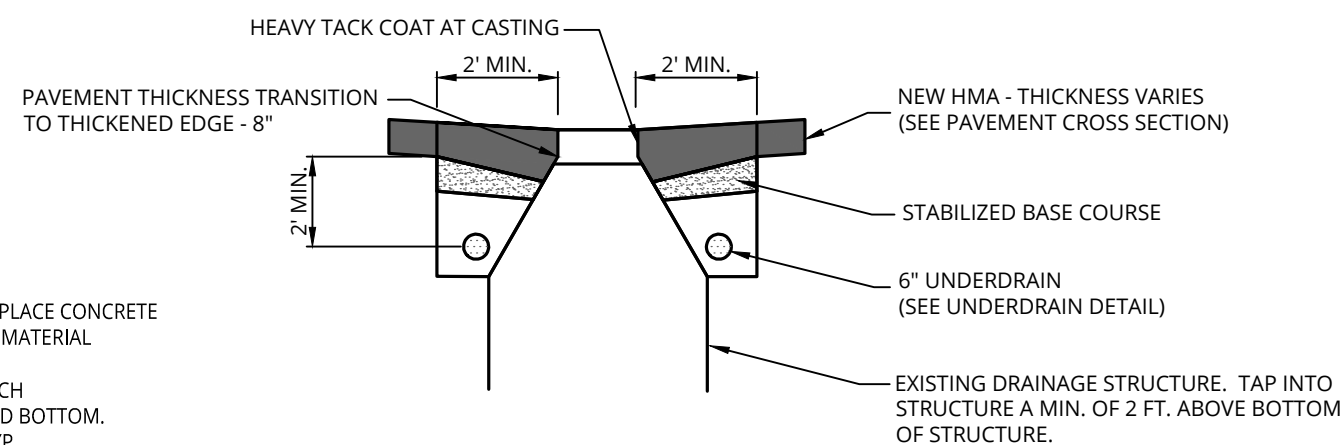


DUMPSTER ENCLOSURE - SINGLE
NOT TO SCALE

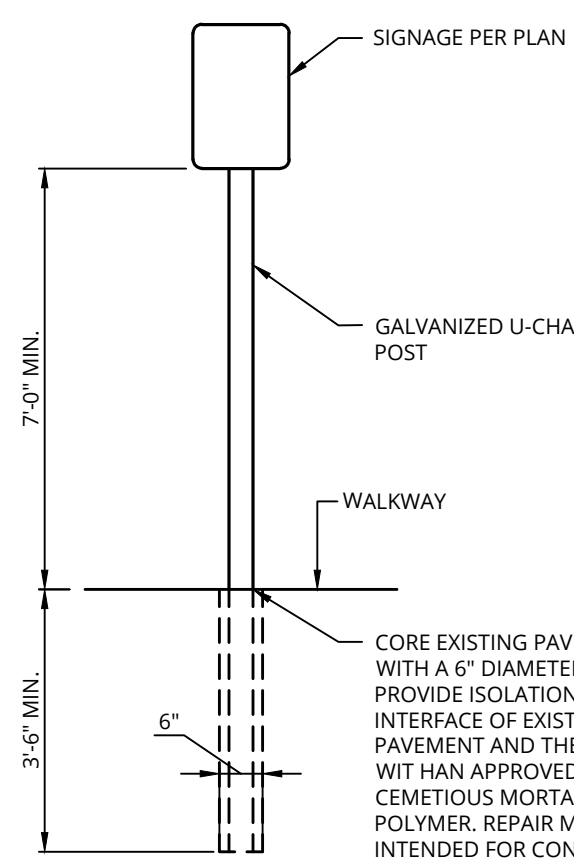


UNDERDRAIN / EDGEDRAIN - DETAIL
NOT TO SCALE

NOTES:
1. SLOPE UNDERDRAIN PIPES TOWARD EXISTING DRAINAGE STRUCTURES (MIN. 1.0%)
2. AT CATCH BASIN, INSTALL RING AROUND CATCH BASIN AND TAP STRUCTURE AT ONE LOCATION.
3. AT CURB INLETS, INSTALL HALF RING AROUND INLET AND TAP AT ONE LOCATION
4. IN CEMENT TREATED BASE AREAS, INSTALL UNDERDRAIN AFTER CEMENT TREATMENT.

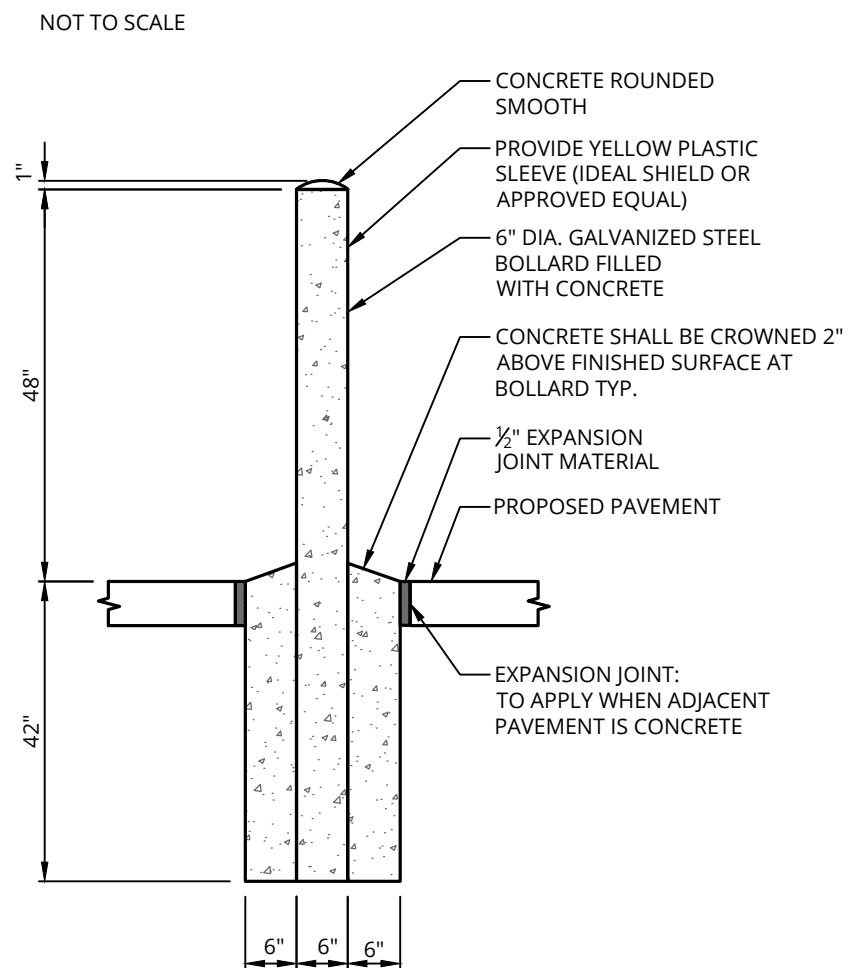


THICKENED EDGE HMA AT UTILITY STRUCTURE DETAIL
NOT TO SCALE

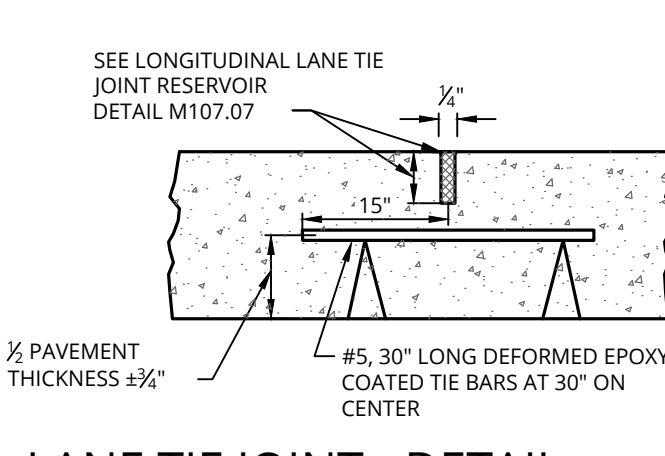


PARKING SIGN ON POST IN PAVEMENT
NOT TO SCALE

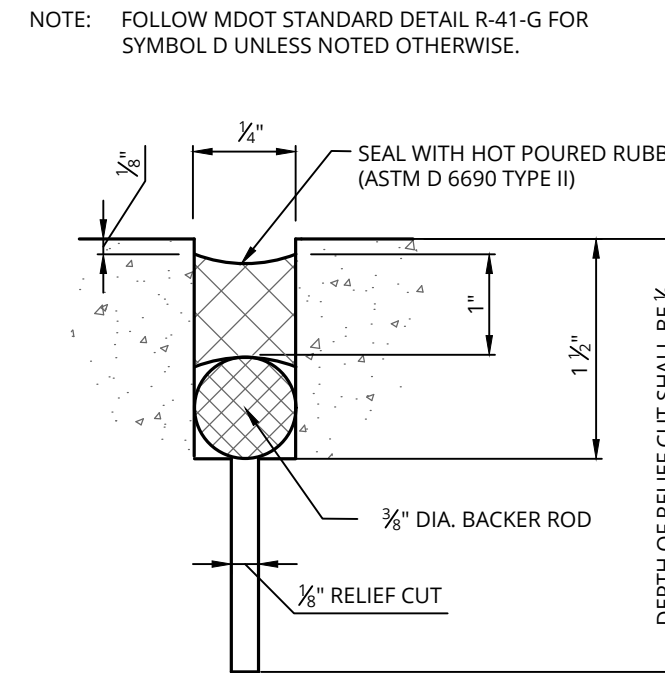
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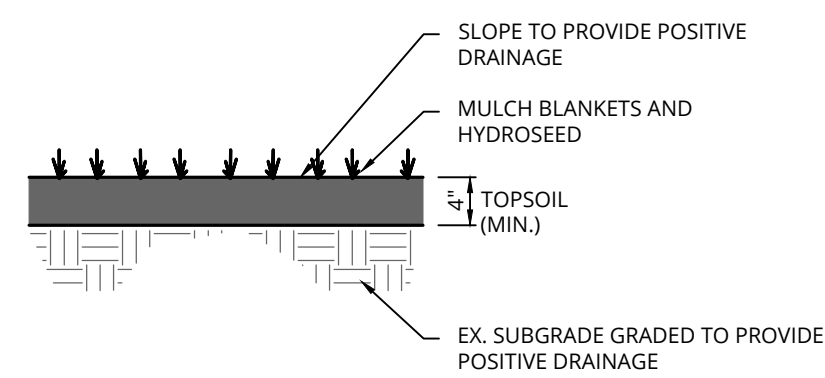
BOLLARD WITH CONCRETE - DETAIL
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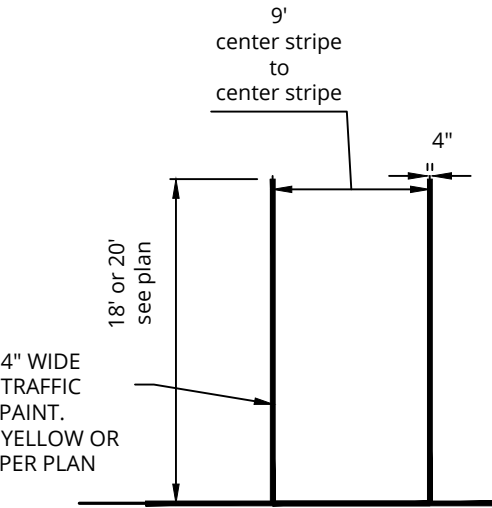
LANE TIE JOINT - DETAIL
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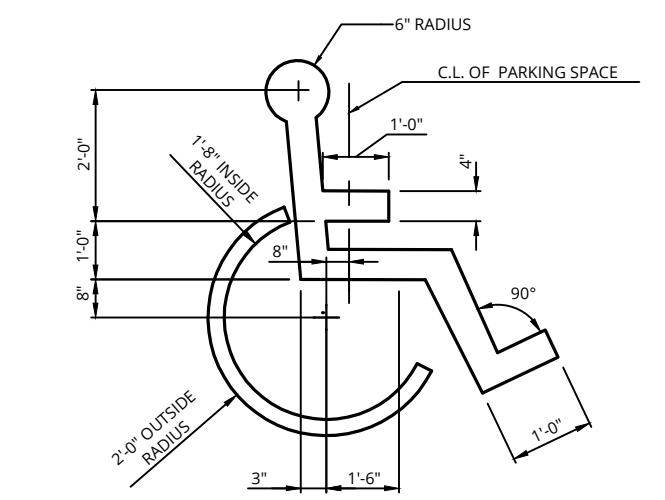
LANE TIE JOINT RESERVOIR - DETAIL
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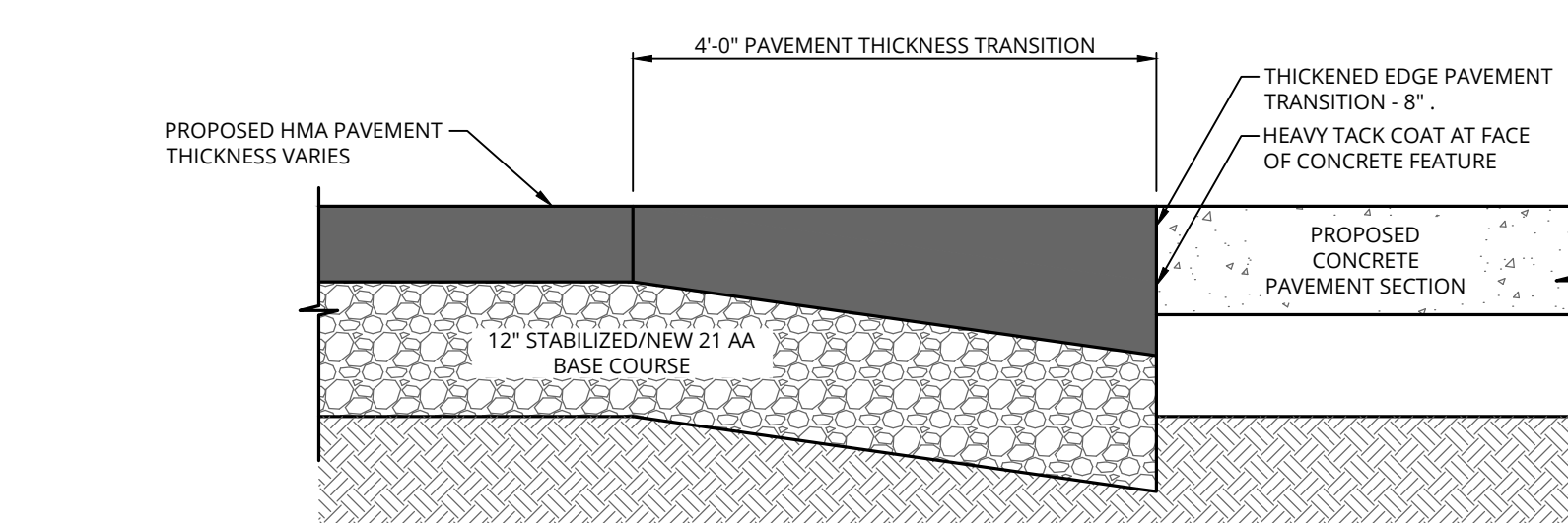
RESTORATION OF GREENBELT DETAIL
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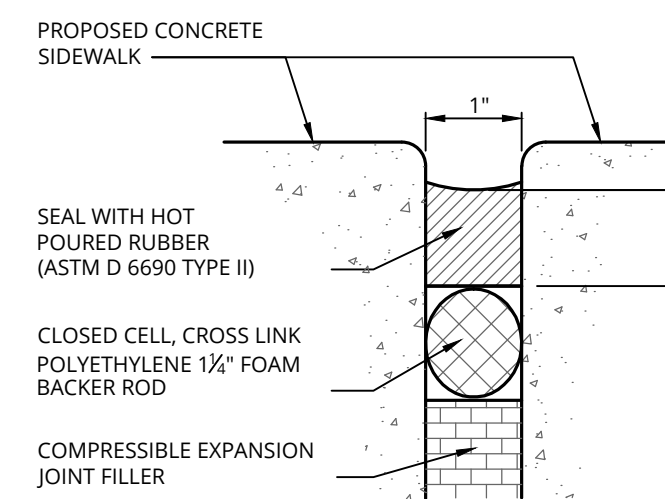
90° ANGLE PARKING
NOT TO SCALE



ACCESSIBLE PARKING SYMBOL
NOT TO SCALE

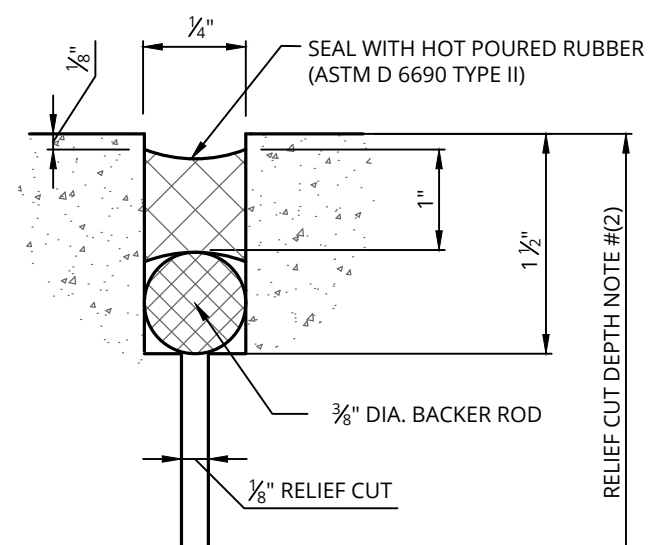


THICKENED EDGE DETAIL - DETAIL
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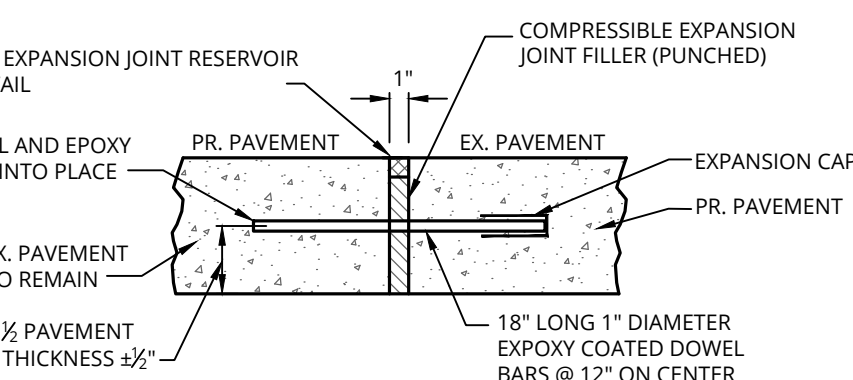
SIDEWALK EXPANSION JOINT RESERVOIR - DETAIL
NOT TO SCALE

CONTRACTION JOINT - DETAIL
NOT TO SCALE

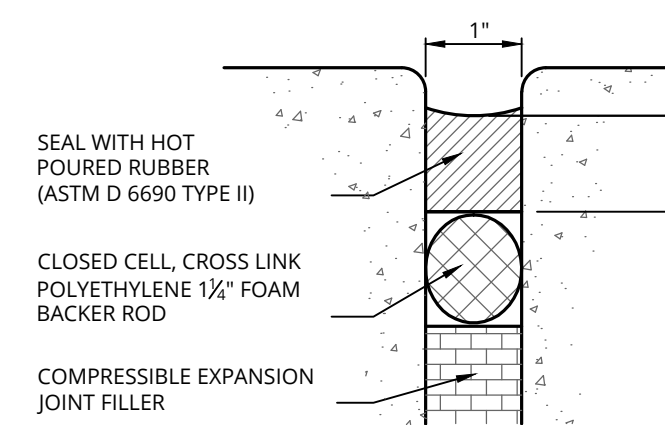


CONTRACTION JOINT RESERVOIR - DETAIL
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CONTRACTION JOINT RESERVOIR - DETAIL
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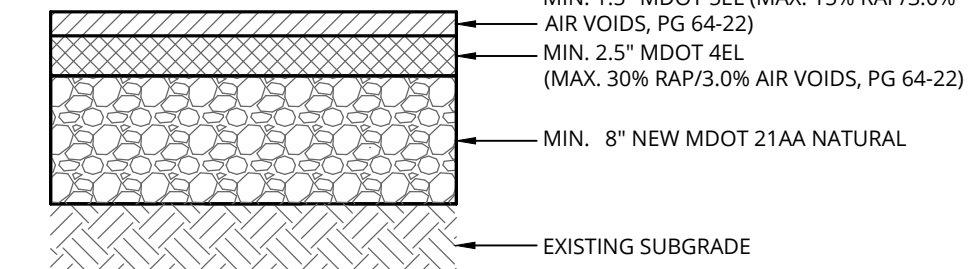


DOWELED EXPANSION JOINT - DETAIL
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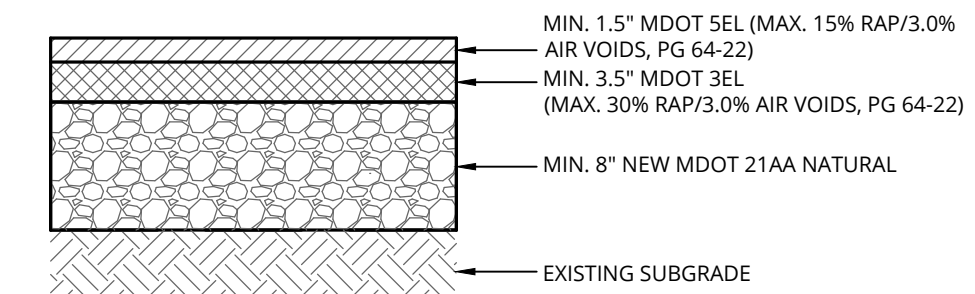


EXPANSION JOINT RESERVOIR - DETAIL
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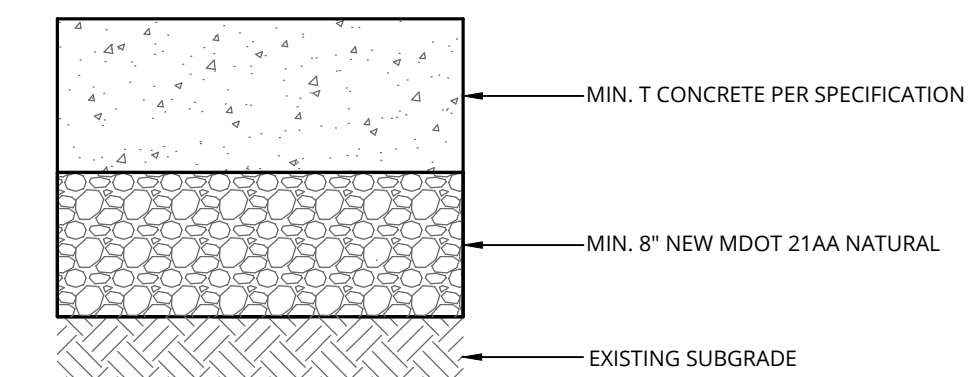
EXPANSION JOINT RESERVOIR - DETAIL
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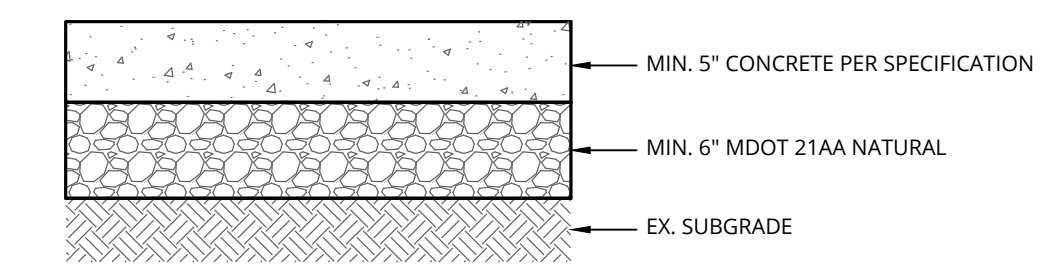
HMA OVER AGGREGATE BASE - STANDARD DUTY - DETAIL
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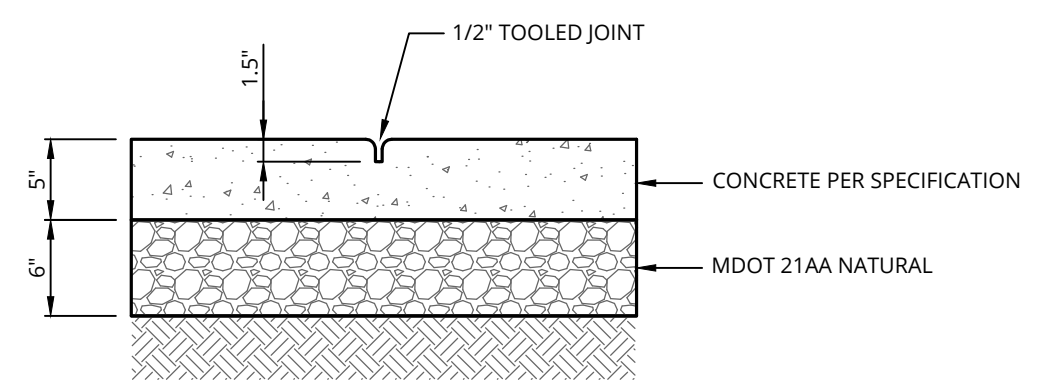
HMA OVER AGGREGATE BASE - HEAVY DUTY - DETAIL
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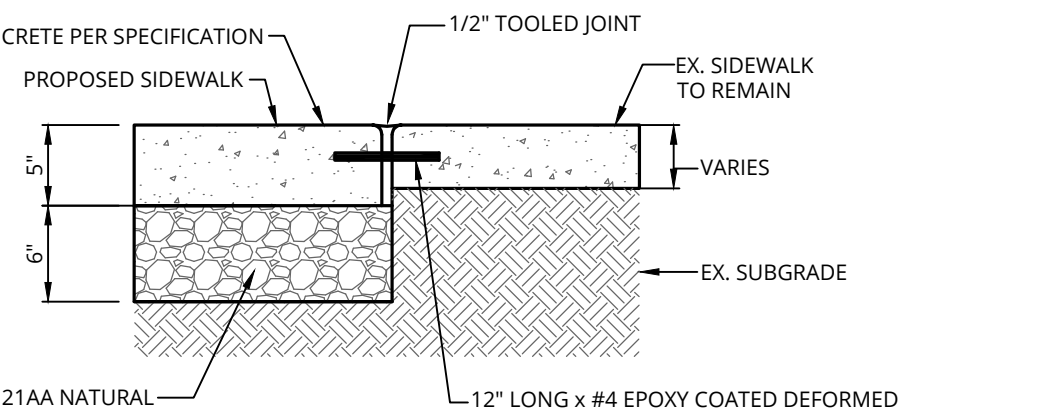
PCC OVER AGGREGATE BASE - DETAIL
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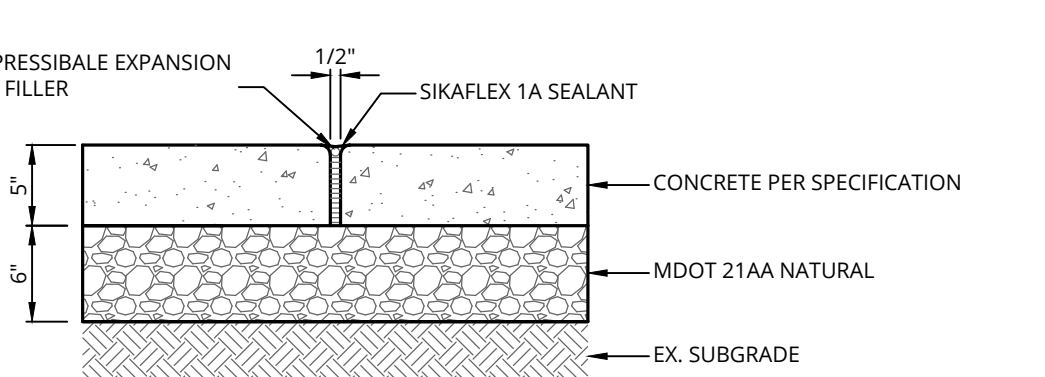
SIDEWALK - DETAIL
NOT TO SCALE



SIDEWALK CONTROL JOINT - DETAIL
NOT TO SCALE



SIDEWALK CONSTRUCTION JOINT - DETAIL
NOT TO SCALE



SIDEWALK EXPANSION JOINT - DETAIL
NOT TO SCALE

SME
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Orientation	Scale
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Project
MARSHAL TOWNSHIP FIRE STATION NO. 1

Project Location
13550 15 MILE RD MARSHALL, MI 49068

Engineer's Seal

PRELIMINARY - NOT FOR CONSTRUCTION

Revisions			
REV	ISSUED FOR	DATE	BY
01	SITE PLAN SUBMITTAL	01/15/2023	JWG

Date
12/15/2023

SME Project No.
094551.00

Project Manager:
J. GRAVES

Designer:
A. REED

CADD:
J. RIOS

Checked By:
A. REED

Reviewed By:
J. GRAVES

Sheet Name:
DETAILS

Sheet No.
D-100

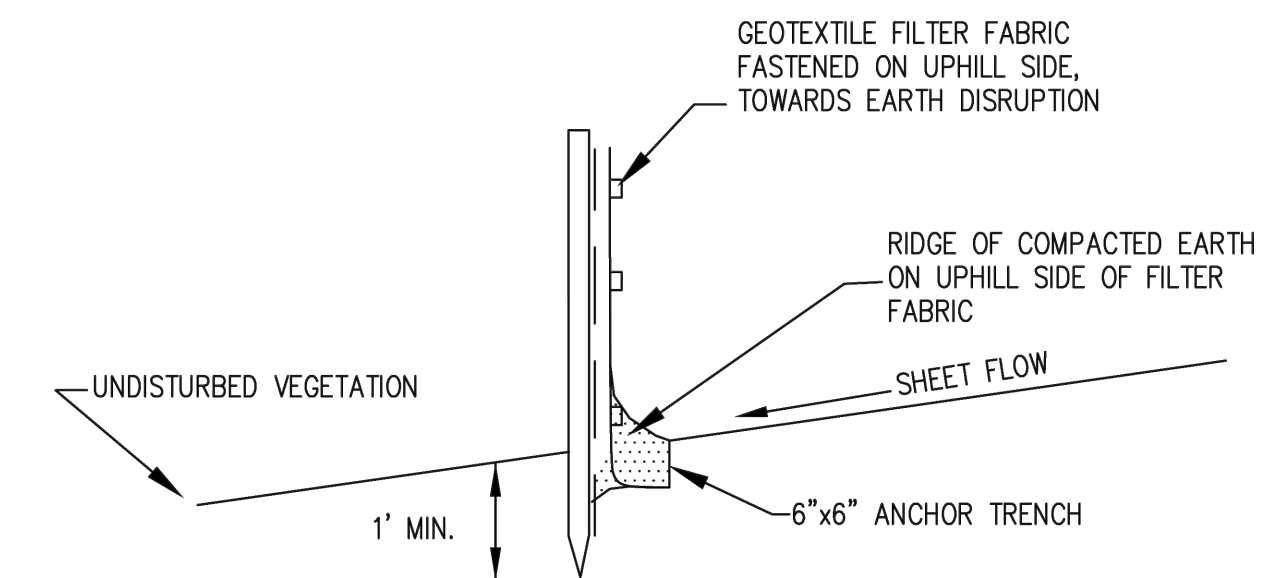
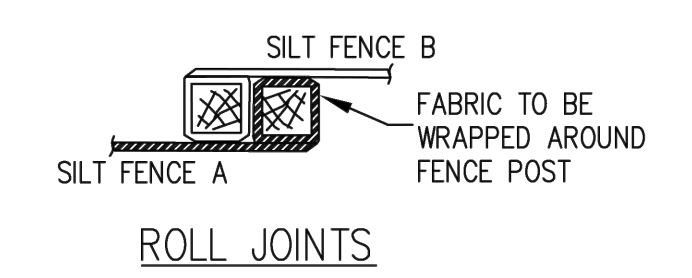
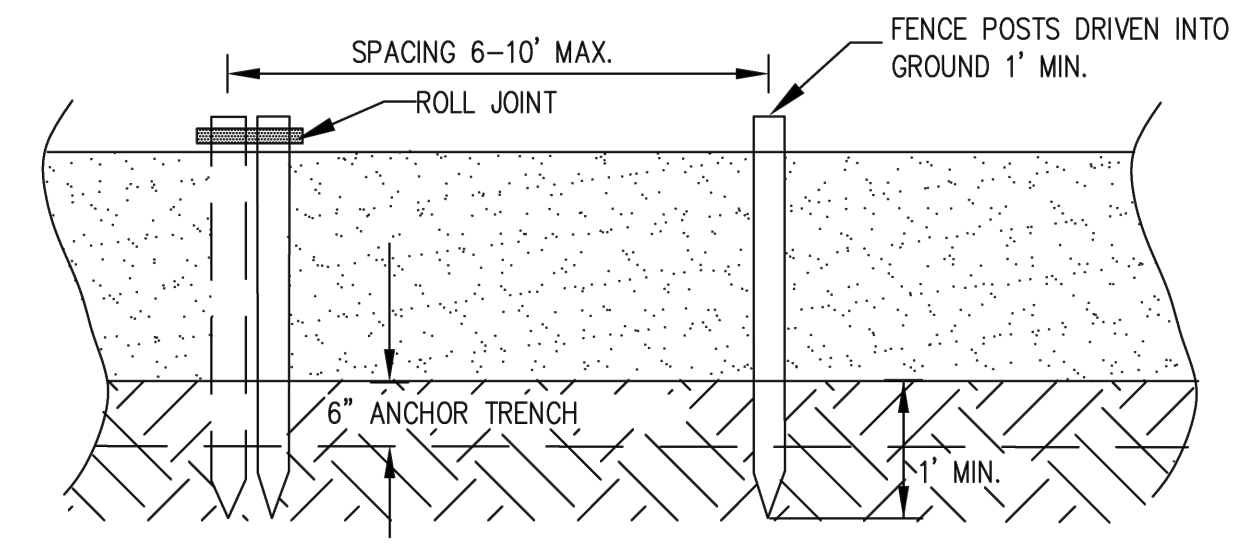
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PLOT DATE: Jan 15, 2024 - 11:48am - lamuntha.pandase

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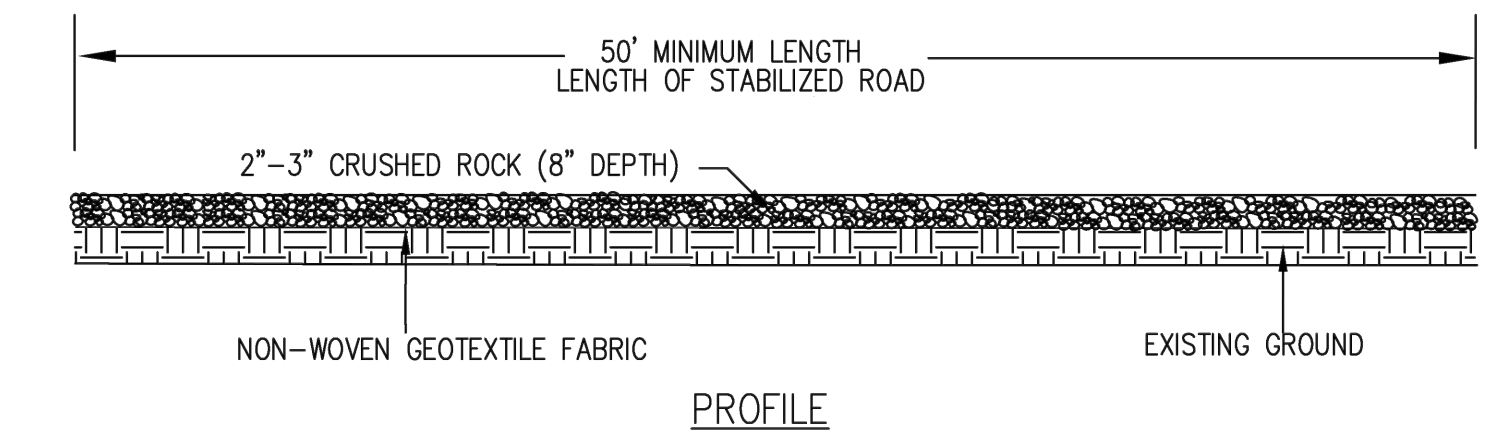
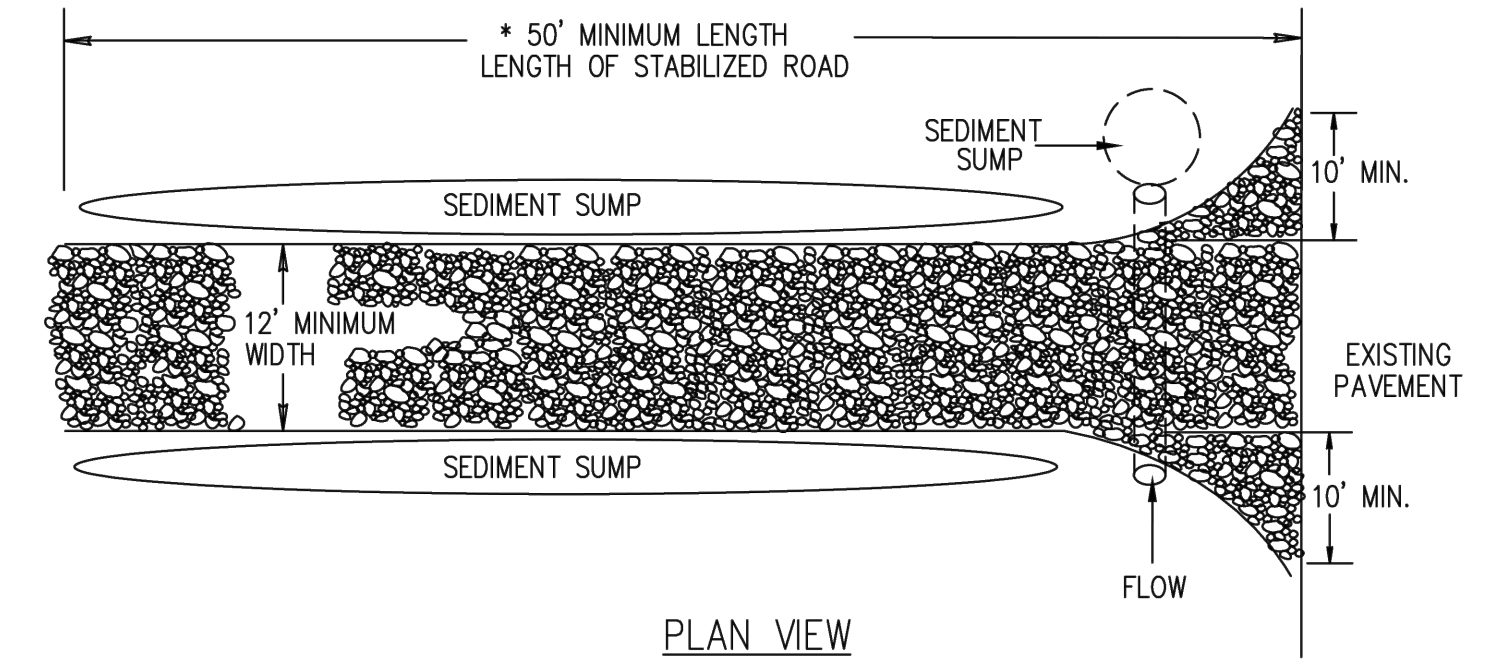
S51

SILT FENCE



S53

STABILIZED CONSTRUCTION ACCESS

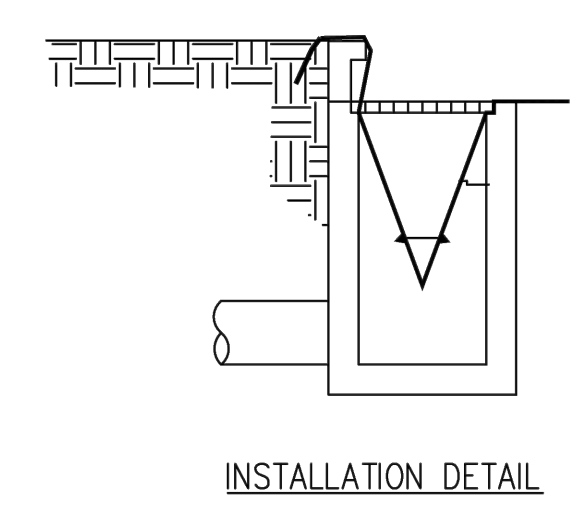
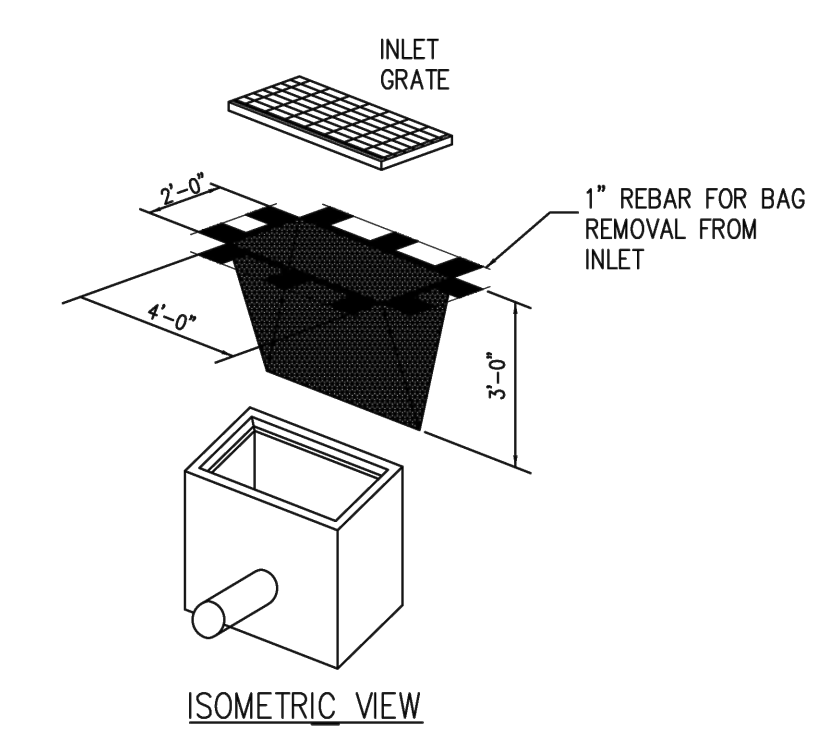


- NOTES:
1. Establish stabilized construction entrance prior to the initiation of site construction activities.
 2. Care should be taken to prevent material movement into adjacent wetlands/waterbodies.
 3. Care should be taken to maintain existing roadside drainage via culvert installation, with sediment sump placed downflow of culvert.



S58

INLET PROTECTION – FABRIC DROP



Orientation	Scale
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Project
**MARSHAL TOWNSHIP
FIRE STATION NO. 1**

Project Location
**13550 15 MILE RD
MARSHALL, MI 49068**

Engineer's Seal

**PRELIMINARY - NOT
FOR CONSTRUCTION**

REV	ISSUED FOR	DATE	BY
01	SITE PLAN SUBMITTAL	01/15/2023	JWG

Date
12/15/2023

SME Project No.
094551.00

Project Manager:
J. GRAVES

Designer:
A. REED

CADD:
J. RIOS

Checked By:
A. REED

Reviewed By:
J. GRAVES

Sheet Name:
DETAILS

Sheet No.
D-101

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Jan 15, 2024 - 11:48am - samantha.pandey