

MOORSBRIDGE ELEMENTARY SCHOOL PLAYGROUND RENOVATIONS

PORTAGE PUBLIC SCHOOLS
Portage, Michigan
CONSTRUCTION DOCUMENTS

DESIGN TEAM

ARCHITECT/ENGINEER

TowerPinkster
Architecture · Engineering · Interiors

242 E KALAMAZOO AVE, SUITE 100
KALAMAZOO, MICHIGAN 49007
PHONE: 269.343.6133
FAX: 269.343.6633

REFERENCED CODES

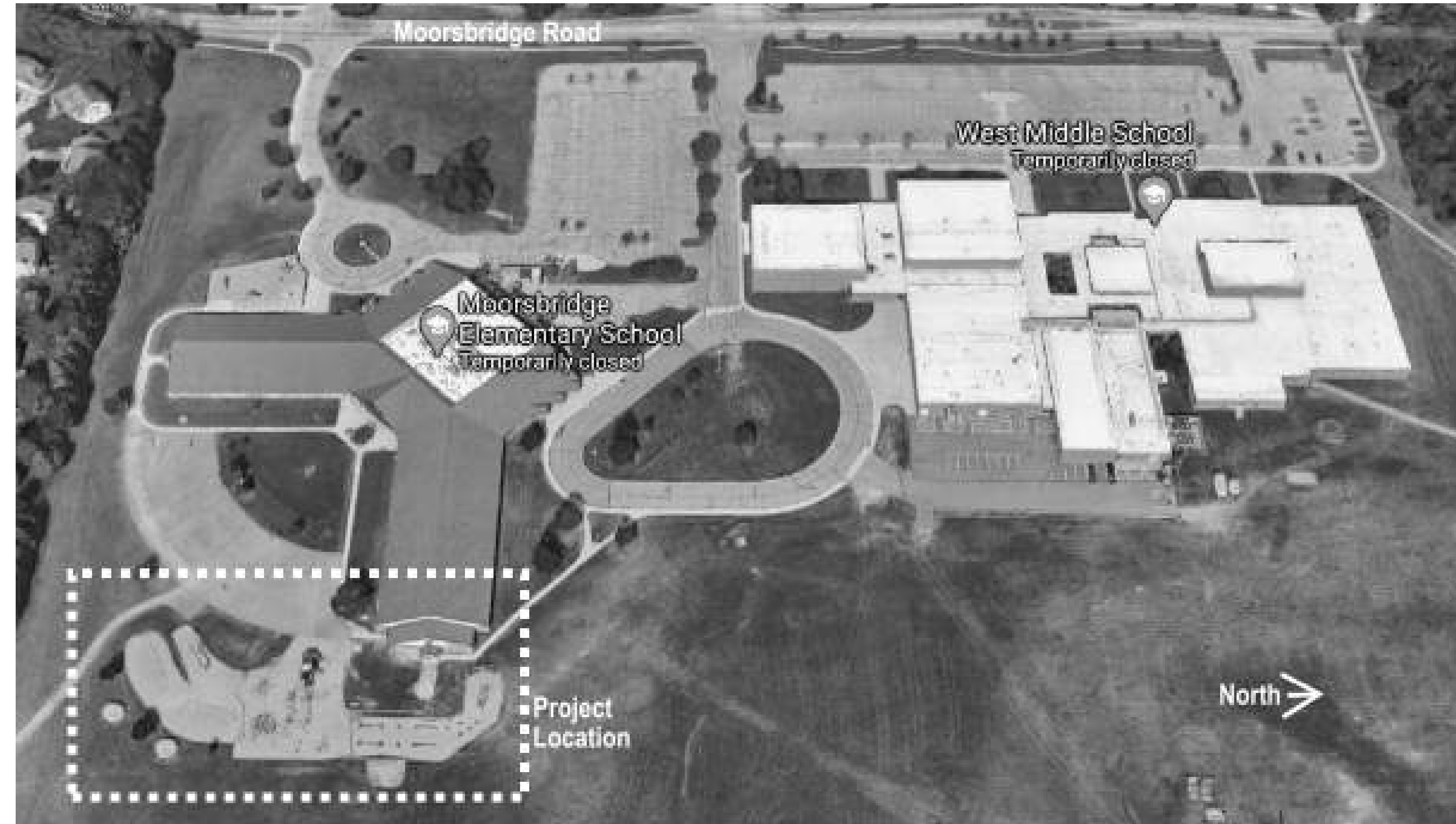
PLAYGROUND: 2010 U.S. CONSUMER PRODUCT SAFETY COMMISSION PUBLIC PLAYGROUND SAFETY
BARRIER-FREE: 2015 MICHIGAN BUILDING CODE AND 2009 ICC & C A117.1

PROJECT AREA

APPROXIMATE PROJECT AREA: 30,000 SQ. FT

DRAWING INDEX

- TOPOGRAPHIC SURVEY
- TS 001 TOPOGRAPHIC SURVEY
- CIVIL DEMOLITION
- CD 001 SITE DEMOLITION PLAN
- CIVIL NEW CONSTRUCTION
- C 001 LAYOUT PLAN
- C 002 GRADING PLAN



PROJECT LOCATION MAP

SITE ADDRESS

MOORSBRIDGE ELEMENTARY SCHOOL
7361 MOORSBRIDGE ROAD
PORTAGE, MICHIGAN 49024

TowerPinkster
Architecture · Engineering · Interiors

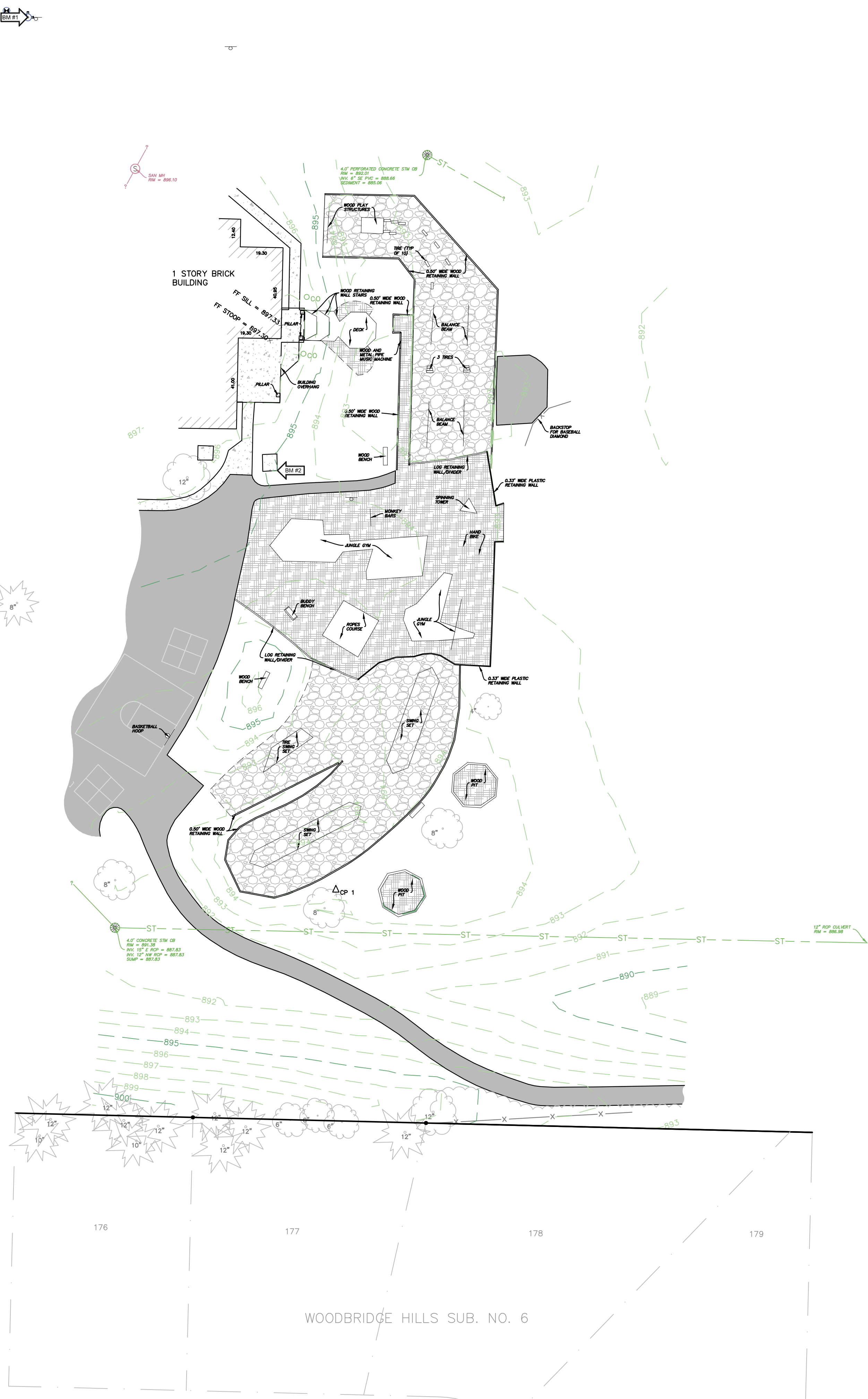
TOPOGRAPHIC SURVEY

SURVEYOR'S NOTES

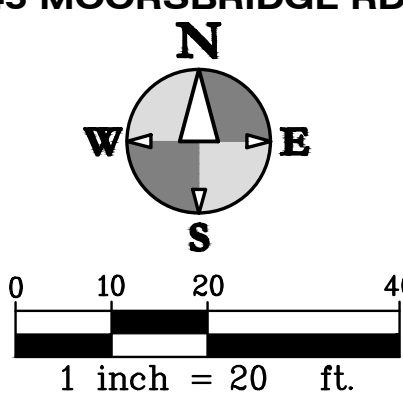
1. BASIS OF BEARINGS: MICHIGAN STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NAD 83
2. CONTOUR INTERVAL = 1 FOOT
3. UTILITIES SHOWN ARE BASED ON FIELD LOCATION OF SURFACE EVIDENCE AND RECORDS PROVIDED BY OTHERS. UNDERGROUND UTILITY LOCATIONS ARE APPROXIMATE. ADDITIONAL UTILITIES MAY BE ENCOUNTERED. PRIOR TO ANY EXCAVATION THE CONTRACTOR SHALL CALL MISS DIG AT 1-800-482-7171.
4. BY SCALED MAP LOCATION AND GRAPHIC PLOTTING ONLY, THE LAND DEPICTED IN THIS SURVEY LIES IN ZONE X. MAP 26077C0284D, EFFECTIVE DATE 02/17/2010.
5. NO WETLANDS ON SITE PER THE NATIONAL WETLANDS INVENTORY. A DELINEATION OF THE WETLANDS BY A QUALIFIED CONSULTANT WAS NOT PERFORMED AT THE TIME OF SURVEY.
6. NO LEGAL DESCRIPTION WAS PROVIDED AT THE TIME OF SURVEY. PROPERTY LINES SHOWN ARE BASED ON FOUND MONUMENTATION AND THE AVAILABLE TAX DESCRIPTION AND SHOULD BE CONSIDERED APPROXIMATELY UNTIL COMPARED TO THE TITLE COMMITMENT OR CURRENT DEED.
7. TITLE WORK WAS NOT PROVIDED AT THE TIME OF SURVEY. NO EASEMENTS ARE SHOWN OR HAVE BEEN RESEARCHED. SURVEY WILL BE COMPLETED UPON RECEIPT OF TITLE WORK.
8. THIS IS NOT A BOUNDARY SURVEY.

LEGEND

	BENCH MARK		RISER
	SET MONUMENT		PIPE MARKER COMMUNICATIONS
	FOUND MONUMENT		PIPE MARKER FIBEROPTICS
	SET CAPPED IRON LIC. # 57885		PIPE MARKER ELECTRIC
	FOUND IRON		PIPE MARKER GAS
	SET CHISELED "X"		SIGN (SINGLE/DOUBLE)
	FOUND CHISELED "X"		MAILBOX
	CONTROL POINT		PARKING METER (SINGLE/DOUBLE)
	PLATTED		POST
	DESCRIBED		SOIL BORING
	MEASURED		FLAG
	RECORD		COLUMN
	CALCULATED		BOLLARD
	CURB CATCH BASIN		CONTOUR HIGHLIGHTED
	SQUARE CATCH BASIN		CONTOUR NORMAL
	ROUND CATCH BASIN		POWER LINE
	MANHOLE STORM		MISS DIG COMMUNICATION
	DOWN SPOUT		MISS DIG ELECTRIC
	YARD DRAIN		MISS DIG FIBEROPTIC
	FLARED END SECTION		MISS DIG GAS
	MANHOLE SANITARY		MISS DIG SANITARY SEWER
	SANITARY CLEANOUT		MISS DIG STORMWATER
	FIRE HYDRANT		MISS DIG TELEPHONE
	WATER VALVE		MISS DIG WATER
	WATER METER		WETLAND MARKER
	WELL HEAD		MISS DIG UNKNOWN
	SPRINKLER CONTROL VALVE		TREE LINE
	SPRINKLER HEAD		FENCE
	MONITOR WELL		GUARD RAIL
	POST INDICATOR VALVE		DECIDUOUS TREE
	SPIGOT		CONIFEROUS TREE
	TRANSFORMER		BUSH
	YARD LIGHT		PAVEMENT
	HAND HOLE (ELECTRIC)		CONCRETE SURFACE
	LIGHT POLE		ADA RAMP BUMPS
	(UTILITY, GUY, POWER) POLE		GRAVEL
	GUY WIRE		LANDSCAPING
	ELECTRIC MANHOLE		PAVERS
	ELECTRIC METER		
	AIR CONDITIONER		
	GAS METER		
	GAS VALVE		
	TELEPHONE MANHOLE		
	COMMUNICATION MANHOLE		



SECTION 17, TOWN 03 S, RANGE 11 W,
CITY OF PORTAGE, KALAMAZOO COUNTY,
MICHIGAN
7145 MOORSBRIDGE RD



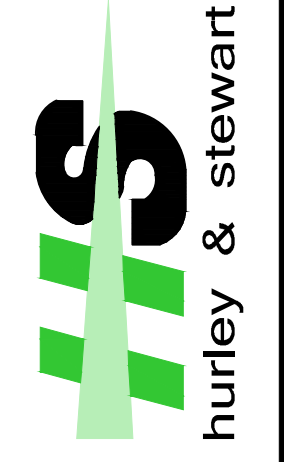
SURVEY CONTROL
 CP 1 N = 4706.02 E = 4737.34 EL = 894.30
 CP 2 N = 5000.00 E = 5000.00 EL = 890.63
 CP 3 N = 5265.70 E = 4716.74 EL = 897.08 (NOT SHOWN)

BENCHMARKS
 ELEVATIONS OF THIS SURVEY ARE BASED ON NAVD 88 AS DERIVED FROM GPS
 BM 1 EL = 897.98
 CHISELED X ON THE EAST BOLT OF HYDRANT NORTH OF BUILDING ALONG DRIVE.
 BM 2 EL = 895.01
 CUT BOX IN SOUTHEAST CORNER OF CONCRETE PAD SOUTHEAST OF BUILDING CORNER

MISS DIG DESIGN TICKET DATA
 AT&T - JACKIE KOLE 616-246-7238 - MAPS PROVIDED - 03-18-20
 CHARTER COMMUNICATIONS - DAN BIELACZYC 231-941-3819 - MAPS PROVIDED - 03-19-20
 CITY OF PORTAGE - JUDY GRAHAM 269-328-4424 - NO RESPONSE
 CONSUMERS ENERGY (ELECTRIC DISTRIBUTION) - ANDRE D. TAYLOR 269-337-2245 - MAPS PROVIDED - 03-20-20
 KALAMAZOO COUNTY ROAD COMMISSION - BRIAN FRANKLIN 269-381-3170 EXT 273



hurley & stewart, llc
 2900 south High Street
 Portage, Michigan 49009
 269.552.4960 • fax 269.552.4961
 www.hurleystewart.com



Job No. 20-0400 IN N. STATE ST. DATE 03/26/20
 ISSUED FOR REVISIONS: 03/26/20
 #1 TOPOGRAPHIC SURVEY

TOPOGRAPHIC SURVEY
MOORSBRIDGE ELEMENTARY
PORTAGE PUBLIC SCHOOLS

Sheet Title:
 Project:
 Client:

03/26/20
S-1
 1 of 1

ISSUED FOR DATE

PROJECT TITLE
MOORSBRIDGE ELEMENTARY SCHOOL
PLAYGROUND RENOVATIONS


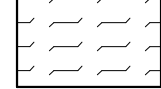
OWNER
PORTAGE PUBLIC SCHOOLS

Portage, Michigan

SHEET TITLE
TOPOGRAPHIC SURVEY

SHEET NUMBER
TS 001
 19-182.00

DATE
MAY 27, 2020

DEMOLITION LEGEND	DEMOLITION NOTES
 AREAS TO BE REMOVED	1. CALL "MISS DIG" AND HAVE EXISTING UTILITY LOCATIONS MARKED PRIOR TO ANY EXCAVATIONS OR INSTALLATIONS ON SITE.
 EXISTING PEA GRAVEL TO BE REMOVED MIN. 12" DEPTH.	2. EXISTING INFORMATION SHOWN HEREIN IS APPROXIMATE AND MUST BE FIELD VERIFIED PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION ACTIVITY.
	3. SEE SHEETS C001 AND C002 FOR GENERAL NOTES.
	4. THE PROJECT SCOPE INCLUDES REMOVING ALL TIRES, WOOD PLAY EQUIPMENT, WOOD BENCHES, WOOD EDGING, WOOD POLES, WOOD DECKING, RELATING DECKING STRUCTURAL SYSTEMS, INCLUDING ALL BELOW GRADE WOOD PARTS. EXISTING GAGA PITS REMAIN. REMOVE ALL PEA GRAVEL MULCH. SALVAGE SMALL AMOUNT OF EXISTING PEA GRAVEL AS NEEDED FOR MULCH AT BUILDING. SEE C001 AND C002.
	5. PROVIDE EROSION CONTROL MEASURES AS REQUIRED BY GOVERNING AUTHORITIES. ACQUIRE ALL REQUIRED PERMITS AND APPROVALS. PROTECT ALL DRAINAGE STRUCTURES FROM ERODED SILT.
	6. EXISTING NON-WOOD PLAY EQUIPMENT TO REMAIN. EXISTING NON-PEA GRAVEL MULCH (EXISTING WOOD MULCH) TO REMAIN. DO NOT OPERATE EQUIPMENT ACROSS EXISTING WOOD MULCH / EXISTING PLAY EQUIPMENT AREAS TO REMAIN. PROTECT AREAS FROM DAMAGE.
	7. COORDINATE SALVAGED MATERIALS WITH OWNER; PROTECT MATERIALS FROM DAMAGE.
	8. SAWCUT PAVEMENTS AT DEMOLITION LIMITS; VERIFY IN FIELD.
	9. PROTECT ALL AREA TO REMAIN FROM DAMAGE.

ISSUED FOR _____ DATE _____

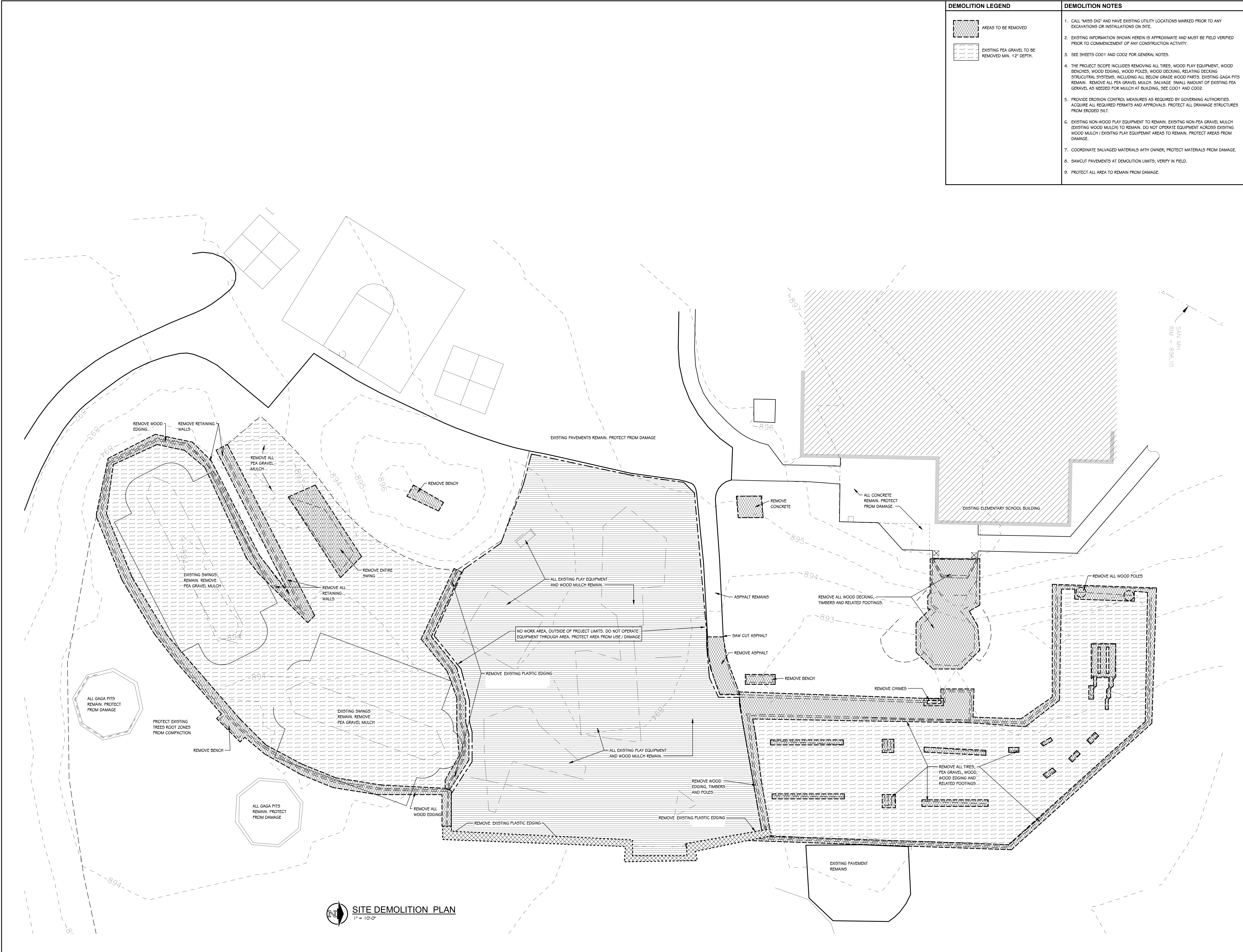
PROJECT TITLE
**MOORSBRIDGE ELEMENTARY SCHOOL
 PLAYGROUND RENOVATIONS**

OWNER
PORTAGE PUBLIC SCHOOLS
 Portage, Michigan

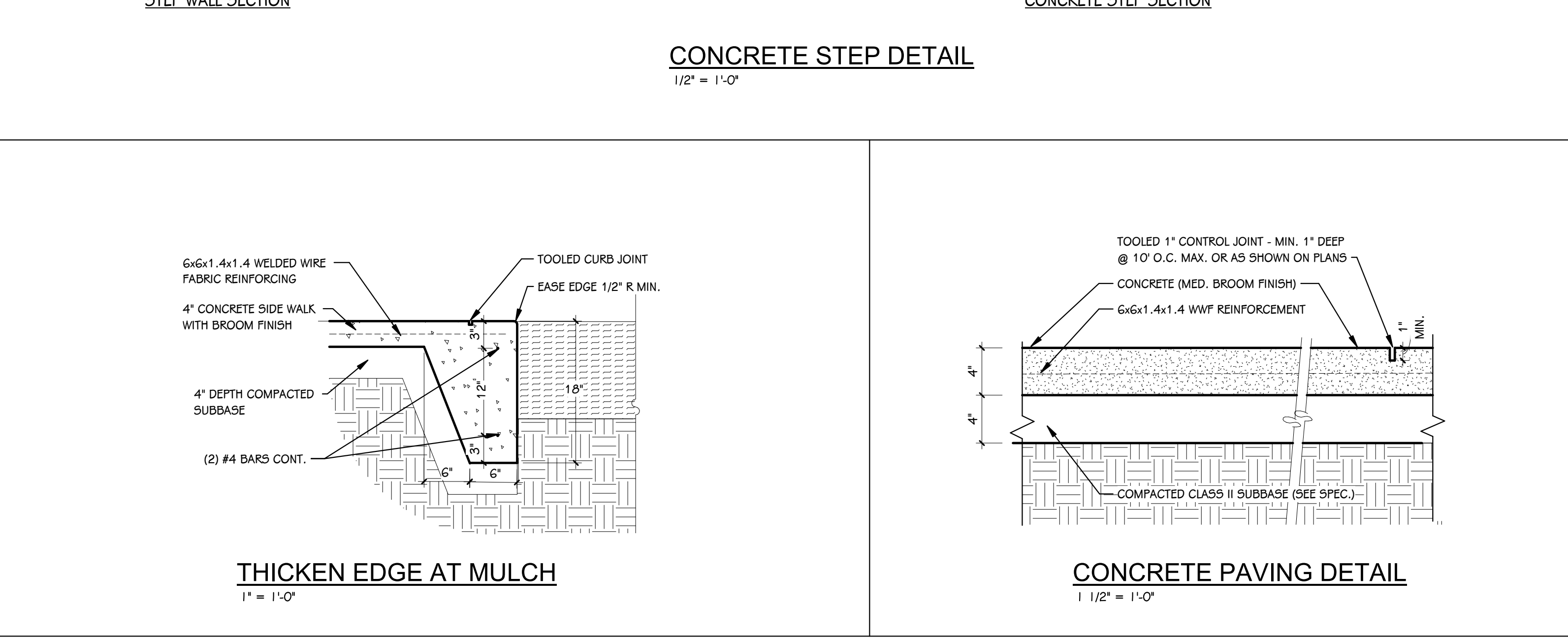
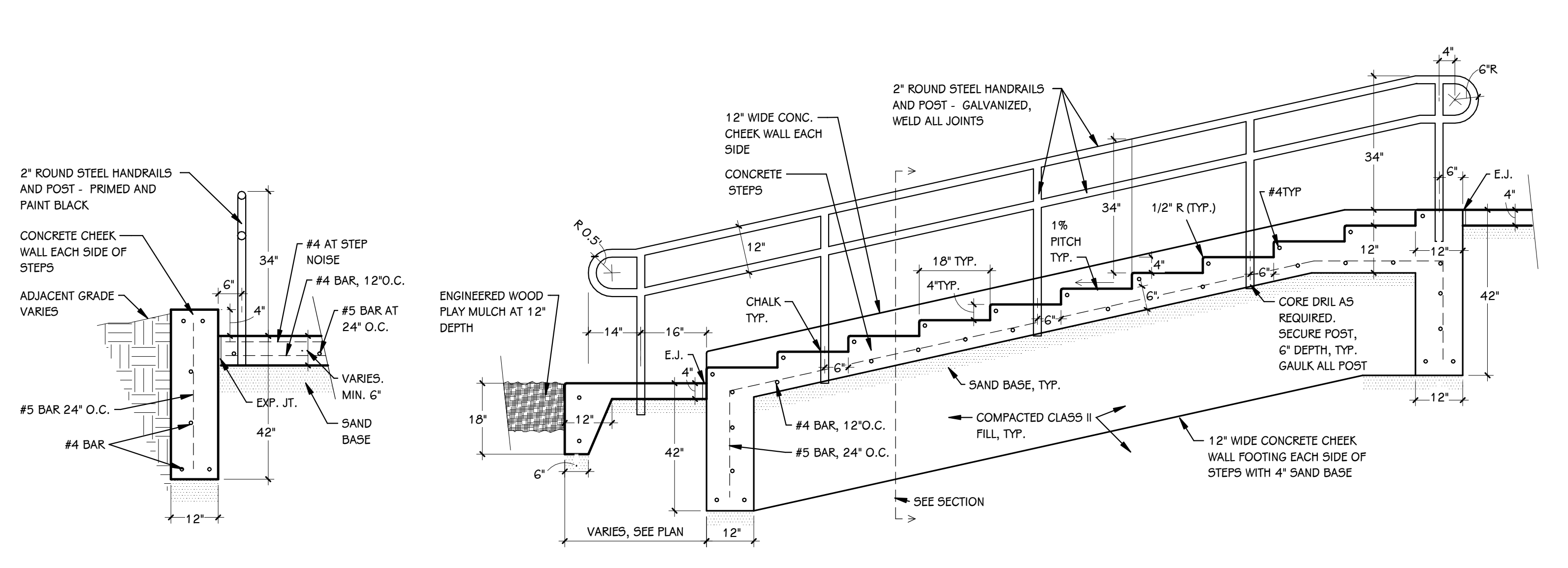
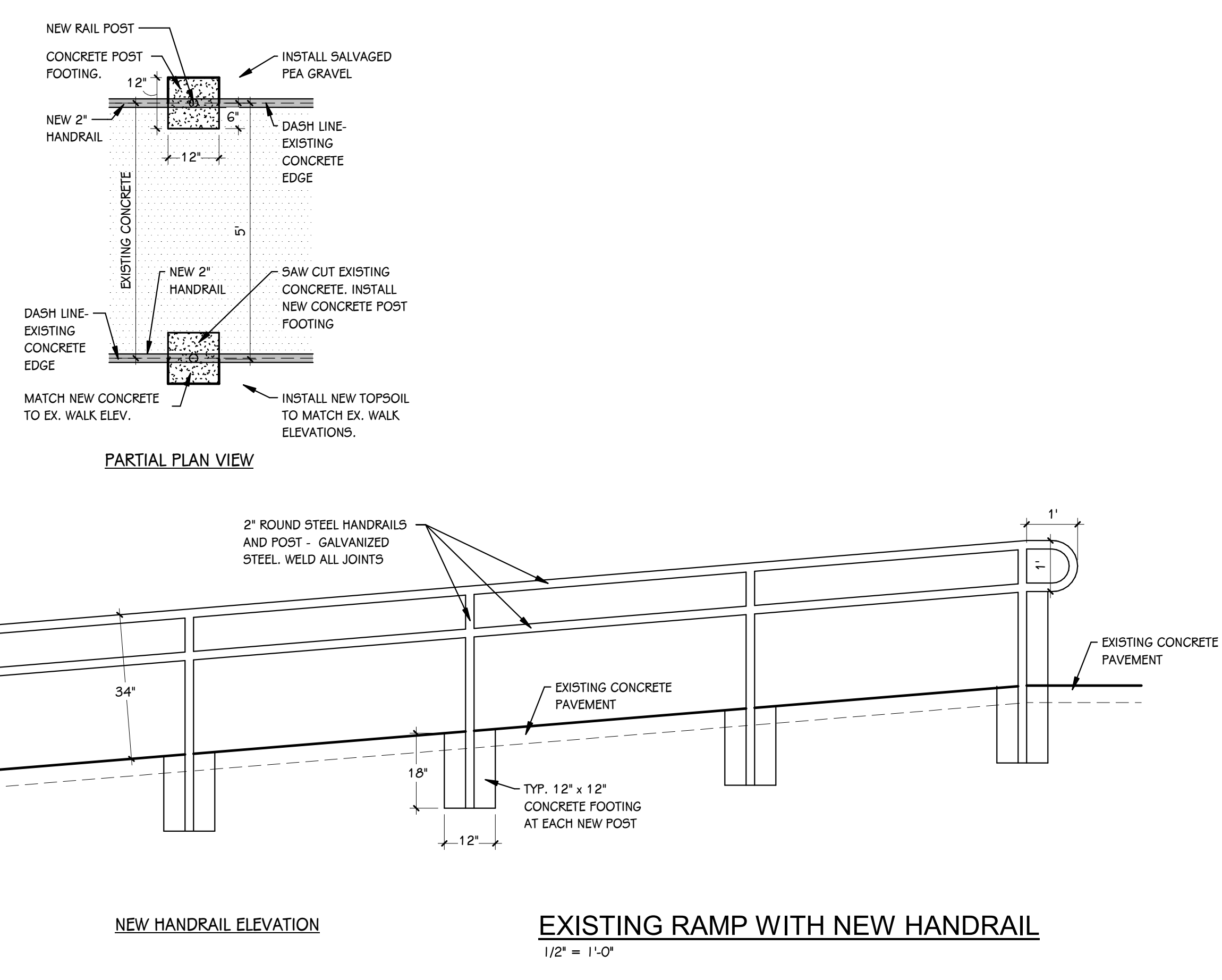
SHEET TITLE
SITE DEMOLITION PLAN

SHEET NUMBER
CD 001
 19-182.00

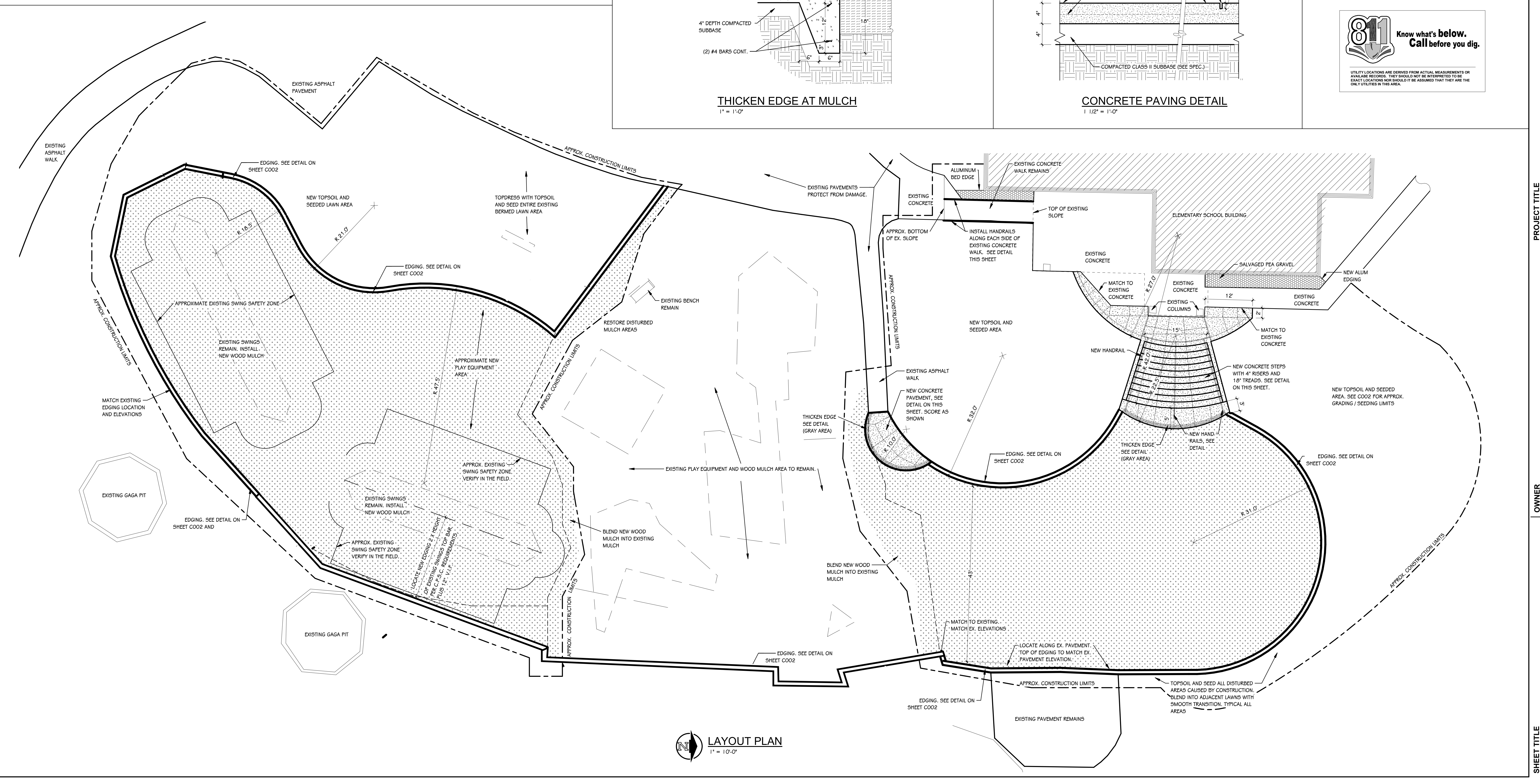
DATE
MAY 27, 2020



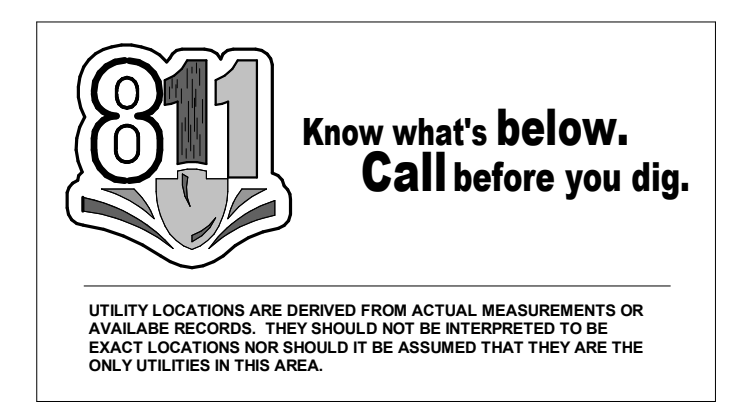
 **SITE DEMOLITION PLAN**
 1" = 10'-0"

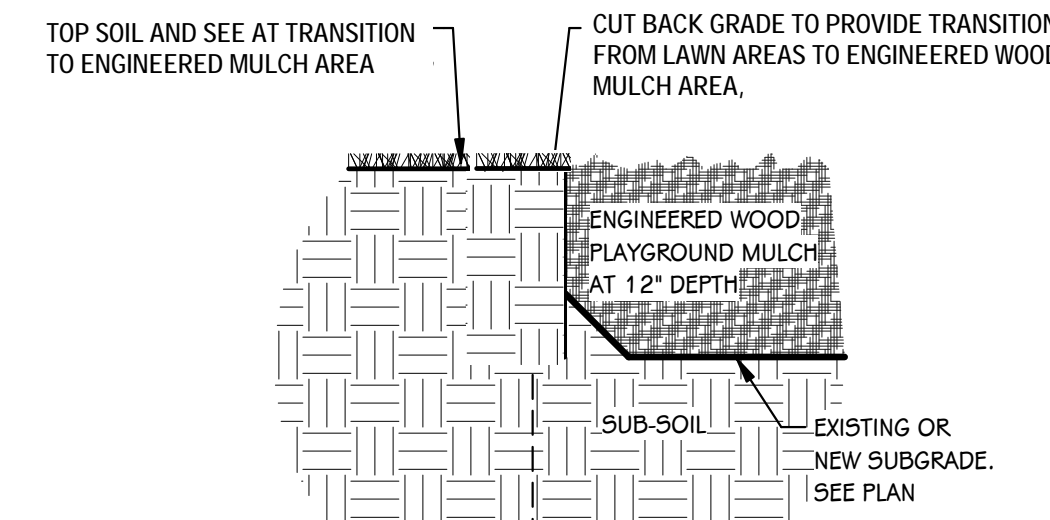


- ### SITE PLAN NOTES
1. CALL 'MISS DIG' AND HAVE EXISTING UTILITY LOCATIONS MARKED PRIOR TO ANY EXCAVATIONS OR INSTALLATIONS ON SITE.
 2. EXISTING INFORMATION SHOWN HEREIN IS APPROXIMATE AND MUST BE FIELD VERIFIED PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION ACTIVITY.
 3. ALL EXISTING INFORMATION SHOWN IS FROM THE SITE TOPOGRAPHIC SURVEY PRODUCED BY HURLEY STEWART, KALAMAZOO, MICHIGAN. SEE SHEET 19.001 FOR THE COMPLETE TOPOGRAPHIC SURVEY, EXISTING CONDITIONS AND ADDITIONAL INFORMATION.
 4. PROTECT ALL EXISTING TREES. DO NOT STOCKPILE MATERIAL OR OPERATE EQUIPMENT WITHIN THE TREES DRIP LINED ROOT ZONE.
 5. PROTECT ALL EXISTING PAVEMENTS FROM DAMAGE. REPAIR ANY DAMAGED PAVEMENT CAUSED BY CONSTRUCTION.
 6. THE SCOPE OF THESE DOCUMENTS DO NOT INCLUDE PLACEMENT NOR INSTALLATION OF ANY PLAY EQUIPMENT. PLAY EQUIPMENT TO BE DESIGNED AND IMPLEMENTED BY THE OWNER. COORDINATE WITH OWNER IF EQUIPMENT INSTALLATION IS AT SAME TIME PERIOD AS THESE DOCUMENTS' SCOPE OF WORK.
 7. ALL NEW PLAY MULCH EDGING TO BE INSTALLED FLUSH WITH ADJACENT LAWN, PER DETAIL ON SHEET C002. THOUGH CREATED WITH STRAIGHT EDGE SECTIONS, ALL ARCS TO BE SMOOTH CONTINUOUS ARCS FROM RADIUS POINTS AS INDICATED.
 8. RESTORE ALL DISTURBED LAWN AREAS BY RAKING TOPSOIL INTO ADJACENT LAWNS WITH SMOOTH TRANSITIONS, WITH NO STONES. SEED AND PROTECT FROM EROSION IF NEEDED.
 9. CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING NEW LAWN AREAS. PROTECT NEWLY SEEDDED AREAS WITH TEMPORARY SNOW FENCE AND PROVIDE WATERING PER SPECIFICATIONS.
 10. BLEND NEW WOOD PLAY MULCH INTO EXISTING WOOD PLAY MULCH WITH AN UNIFORM SMOOTH SEAMLESS TRANSITION.
- ### LEGEND
- NEW ENGINEERED WOOD PLAYGROUND MULCH AT 12" DEPTH. SEE SPECIFICATIONS.
 - NEW CONCRETE PAVEMENT, SCORE AS INDICATED. SEE DETAIL THIS SHEET.
 - SALVAGED PEA GRAVEL. INSTALL WEED BARRIER BELOW GRAVEL.
 - NEW EDGING LOCATION. SEE SPECIFICATIONS FOR EDGING. INSTALL PER MANUFACTURE.
 - SALVAGED EDGING LOCATION. ANCHOR WITH SAME METHOD PRIOR TO REMOVAL. V.I.P.



LAYOUT PLAN
1" = 10'-0"





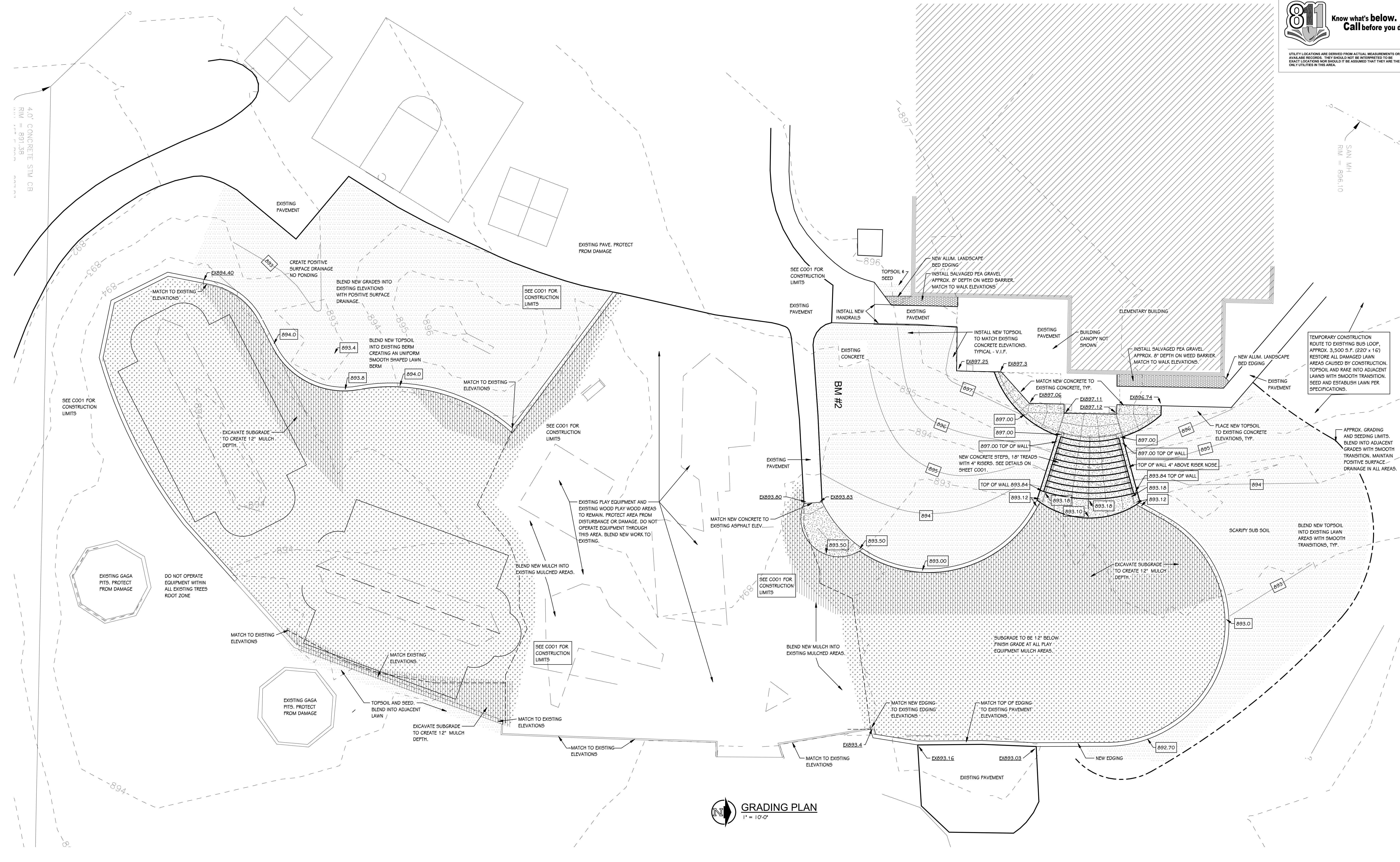
MULCH EDGE DETAIL
1" = 1'-0"

LEGEND	
[Pattern]	SALVAGED PEA GRAVEL
[Pattern]	NEW ENGINEERED WOOD PLAYGROUND MULCH AT EXISTING REMOVED PEA GRAVEL AREAS. EXCAVATE SUBGRADE TO MIN. 12" BELOW PROPOSED FINISH GRADE. NEW WOOD MULCH TO BE MIN. 12" DEPTH.
[Pattern]	NON PEA GRAVEL AREAS. APPROXIMATE EXCAVATION AREA. EXCAVATE AS REQUIRED TO CREATE 12" DEPTH FOR NEW PLAYGROUND WOOD MULCH. BLEND SUBGRADE INTO ADJACENT REMOVED PEA GRAVEL SUB GRADES. V.I.F.
[Pattern]	IMPORTED TOPSOIL PER SPEC. ESTABLISH NEW LAWN PER SPEC. PROTECT FROM EROSION AS REQUIRED.
[Symbol]	PROPOSED ONE FOOT CONTOUR - FINISH GRADE
[Symbol]	PROPOSED SPOT ELEVATION - FINISH GRADE
[Symbol]	EXISTING SPOT ELEVATION

- GENERAL NOTES**
1. THE OWNER RESERVES THE RIGHT TO REMOVE ANY ITEM FROM THE PROJECT PRIOR TO COMMENCEMENT OF CONTRACTED DEMOLITION WORK.
 2. ALL EXISTING CONDITIONS SHALL BE FIELD VERIFIED BEFORE COMMENCEMENT OF WORK.
 3. SEE SHEET C001 FOR GENERAL NOTES AND CD 001 FOR DEMOLITION NOTES.
 4. MATCH NEW WORK TO ADJACENT EXISTING ELEVATIONS AT PAVEMENTS, EDGING AND LAWNS.
 5. MAINTAIN POSITIVE SURFACE DRAINAGE IN ALL AREAS. NO PONDING ALLOWED EITHER IN NEW LAWN AREAS OR ON NEW PAVEMENTS.
 6. ALL NEW CONSTRUCTION TO MEET A.D.A. REQUIREMENTS
 7. PROVIDE EROSION CONTROL BLANKETS IF NEEDED TO PROTECT NEWLY GRADED SLOPES. V.I.F. PROVIDE EROSION CONTROLS AND PERMITTING AS REQUIRED BY LOCAL AUTHORITIES.
 8. ALL NEW WOOD PLAYGROUND MULCH AREAS TO HAVE SUBGRADE 12" BELOW FINISH GRADES. ALL FINISH GRADES TO BE WOOD PLAY MULCH GRADES. MULCH TO BE 12" DEPTH. SEE EDGING DETAIL, THIS SHEET.

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

UTILITY LOCATIONS ARE DERIVED FROM ACTUAL MEASUREMENTS OR AVAILABLE RECORDS. THIS SHOULD NOT BE INTERPRETED TO BE EXACT LOCATIONS NOR SHOULD IT BE ASSUMED THAT THEY ARE THE ONLY UTILITIES IN THE AREA.



GRADING PLAN
1" = 10'-0"

ISSUED FOR DATE

PROJECT TITLE
**MOORSBRIDGE ELEMENTARY SCHOOL
PLAYGROUND RENOVATIONS**

OWNER
PORTAGE PUBLIC SCHOOLS

Portage, Michigan

SHEET NUMBER
C 002

DATE
MAY 27, 2020

19-182.00