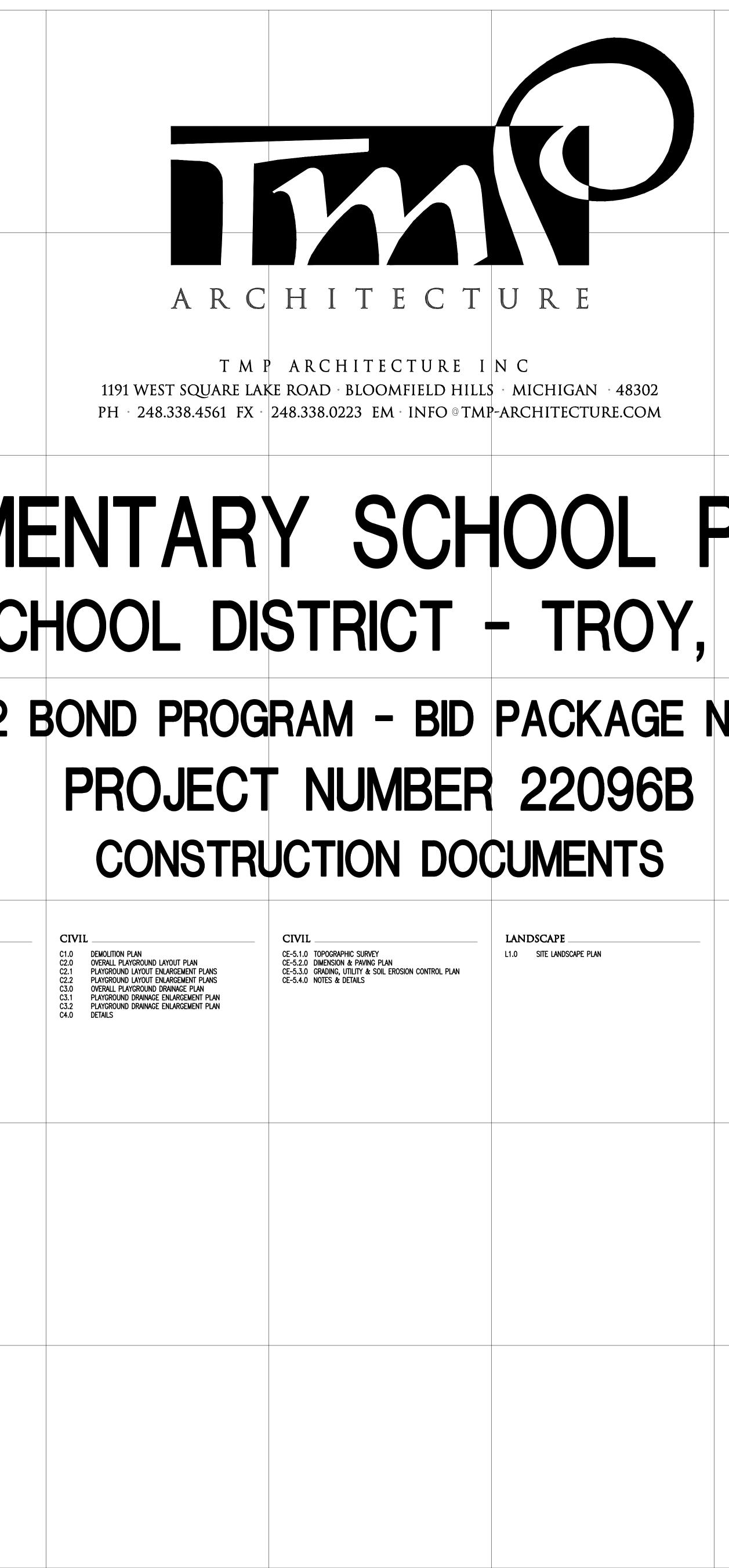
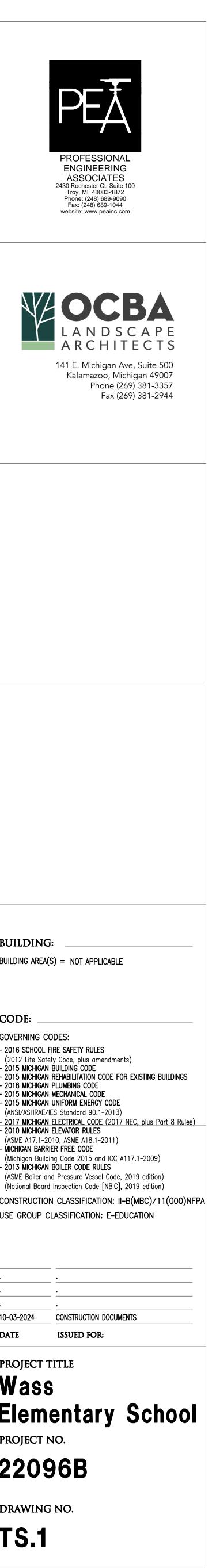
<b>WASS</b> TF	ELEM ROY SC 2022
CONSULTANTS: CIVIL ENGINEER PEA GROUP CONSULTING ENGINEERS 1849 POND RUM AUBURN HILS, MICHIGAN 48326 PHONE: (248) 689-9090 PLAYGROUND CONSULTANT OCBA LANDSCAPE ARCHITECTS CONSULTING ENGINEERS 141 E. MICHIGAN ARE, SUITE 500 KALARZON, MICHIGAN 4907 PHONE: (269) 381-3357	LIST OF DRAWINGS GENERAL INFORMATION TS.1 COVER SHEET TG.1 GENERAL INFORMATION
LICENSEE'S STATEMENT:         This Document has been prepared under the supervision of the Architect, as the person in Responsible Charge with the firm of <u>TMP ARCHITECTURE_INC</u> . An original embossed or rubber stamp seal and original signature of the Architect is required and shall be affixed to any copy of this Document submitted to a governmental agency for approval or record. This is in conformance with the State of Michigan's PA 299, Article 20 and the General Rules of the Board of Architects.         The Architect's seal provided hereon does not take responsibility for certain portions of the Documentation or project requiring the services of a licensed Professional Engineer or other design professional. An original embossed or rubber stamp seal and original signature of the Professional Engineer is required and shall be affixed to any copy of this or other Document submitted to a governmental agency for approval or record. The engineering firms associated with this document are listed above as Consultants.	REGISTRATION SEALS



PLAYG MICHIGA	ROUND N
NO 01B	
	PROJECT DATA: LOCATION MAP E. SOUARE LAVE RD. TO 1-75 TO 1-75 TROY, MI. NO SCALE ADDRESS: WASS ELEMENTARY SCHOOL 2340 WILLARD TROY, MI 48098
	COPYRIGHT © The "architectural work" displayed on these documents is owned exclusively by TMP Architecture, Inc. and may not be used for any purpose without their involvement or express written consent.



#### **ABBREVIATIONS** DAMPER DAMPPROOFING HNDCP H.R. DMPR DMPFG HANDICAPPE A.F.F. ABOVE FINISH FLOOR IANDRAIL A.R.F. ABR. ABS. ACC. ACC. PI DEAD LOAD DECIBLE H.BD HDW ABOVE REFERENCE FLOOR HARDBOARD HARDWARE HARDWOOD ACCESS PANEL DMT. PARTN DEMOUNTABLE PARTITION HDR HEADER COUSTIC/ACOUSTICAL HEAT ABSORBING GLASS DEPARTMEN ACOUSTIC TILE DEPR. DEPRESSED HEAT RECOVERY UNIT H.R.U ACOUSTIC INSULATION AC. INSUI ADD. ADDN. ADDNL. ADH. HEATING DDENDU D.E. CO. DETROIT EDISON COMPANY H/V HEATING AND VENTILATING H.V.A.C. HEATING, VENTILATING AND ADHESIVE DIAGRAM AIR CONDITIONING DIAMETER HEATING HOT WATER SUPPLY ADJUSTIB HHWR ADJ. AGGR AGGREGATE HHW HEATING HOT WATER RETURN A.C.B. AIR CIRCUIT BREAKER DIMENSION CONDITIONING **DINING ROOI** HEXAGON A.C.C A.C.U CONDITIONING COMPRESSOR DIRECTORY H.I.D HIGH INTENSITY DISCHARGE A.H.U. DISCONT. DISCONTINUOUS H.P. HIGH POINT AIR HANDLING UNI ALT. ALUM./A ISHWASHER H.PF HIGH PRESSURE DISPENSER HIGH STRENGTH LUMINUM H.S. AMT AMP AMPL. ANCH. A.B. HIGH STRENGTH BOLT HIGH VOLTAGE H.S.B. DISTANCE AMPHERE DISTRIBUTION PANE H.V. DITTO (DO OVER) DIVIDER/DIVISION AMPLIFIEF HWY HIGHWAY ANCHOR HSTWY HOISTWAY ANCHOR BOL H.C. HOLLOW CORE DOOF DOOR OPENING Н.М. HOLLOW META D.O. DR. OP. DOOR OPERATOR HNYCB HONEYCOMB ANG./Lor ANOD APT. ANODIZED ΗK HOOK HORIZONTAL APARTMEN<sup>®</sup> DOUBLE ACTING HORIZ. APPR. APPROX. APPROVED DOUBLE HUNG HORSEPOWER APPROXIMAT DOWEL Hose BIBB ARCH. ARCHITECT/ARCHITECTURA DOWN H.S.P. HOSE STAND PIPE ARCHITECTURAL DRAWING-N DOWNSPOU H.V.0 HOSE VALVE CABINE ASH TRAY HOSP. HOSPITAL HOT WATER AUTOMATIC TELLER MACHINI H.W. ASPH ASSY. DRAIN TILE CONNECTO HWR HOT WATER RETURN HOT WATER SUPPLY SSEMBL DRAWING AUTOMATIC DRINKING FOUNTAIN H.O. HUB OUTLET A.S.R. AUTOMATIC SPRINKLER RISER HYDRANT/HYDRAULIC DRY BULB HYD. D.B. D.S.P. AUXILIARY DRY STAND PIPE HYDROGEN AVERAGE DBWTR DUMBWAITER DUPLICATE D.DR. DUTCH DOOR BACK-TO-BACK BACK FLOW PREVENTER EACH DENTIFICATION EACH FACE B.F.F NCANDESCENT INCAND. B.D.C EACH WAY IN. or " NCH/INCHES BACK DRAFT DAMPER B.F. B.B.R **NCINERATOF** E.I.F.S. BASE BOARD RADIATION EXTERIOR INSULATION FINISH SYS INCLUDE/INCLUDING INCL. B.PL BSM1 NDIRECT WASTE SE PLATE STOMERI ELAST. FLASH. ELASTOMERIC FLASHING NFORMATION ELAST. W.P. ELASTOMERIC WATERPROOFIN BATH ROOM INSIDE DIAMETER ELASTOMERIC SHEET ROOFING INSIDE FACE ELECTRIC/ELECTRICAL INSTALL/INSTALLATIO BACK OF CURB ELEC. INST'L ELECTRICAL CLOSE INSULATE/INSULATION BEDROOM ELEC. CAB. ELECTRICAL CABINET INTERIOR INTER. INTERMEDIATE BENCH MARK LECTRICAL CONTRACTOR ELECTRICAL DRAWING-NO. INVER1 ELECTRICAL PANEL INVERT ELEVATION BETWEEN LECTRIC WATER COOLER ELEC. OPER. ELECTRICALLY OPERATED BITUMINOU BLACK-IRON \_EVATION BLOCK ELEVATOR BLOCKING EMERC EMERGENCY BOARD ENCLOSURE BOILER ENGR JANITOR CLOSET ENGINEER BLR. BOILER FEED END-TO-END BLR. H. BOILER HOUS ENTR. ENTRANCE/ENTRY JOIST BOOK SHELVE JUNCTION BOX Both Sides EPDM ETHYLENE PROPYLENE DIENE JUNIOR BOTH WAYS MONOMER BOTTOM EQUAL EQUIPMENT BOTTOM ELEVATIO BLVD BDRY BRKT EQUIV. EQUIVALENT BOUNDARY ESCALATOR BRACKET ESTIMATE EXCAVATED K.P. KICK PLATE EXHAUST DUCT BRICK KILOVOLT AMPHERE BRITISH THERMAL UNIT BRONZE KILOWATT KIP (1000#) btu Brz Bldg EXHAUST FAN KW EXHAUST GRILLE KITCHEN KNEE SPACE E.R. EXIST. EXP. EXP.B. BUILDING EXHAUST REGISTER KIT. BUILDING LIN EXISTING K.D. K.O.P. BUILT-UP ROOFING EXPANSION KNOCK DOWN BULLNOSE BULKHEAD B.N. BLKD EXPANSION BOLT KNOCK-OUT PANEL E.J. EXPL.P EXP'D EXT'N EXT. **EXPANSION JOINT** BULLETIN EXPLOSION PROOF BURGLAR ALARM EXPOSED BUZZER EXTENSION EXTERIOR E.I.F.S. LABEL LABORATORY EXTERIOR INSULATION FINISH LBL. SYSTEM E.H. EXTR. E.S.P. EXTRA HEAVY LADDER LAG BOLT EXTRUDED L.B. CABINET CABINET UNIT HEATER CAPACITY EXTERNAL STATIC PRESSURE CAB. LAMINATE/LAMINATED C.U.H. CAP. CPT C.R.S. CSMT CSWRK CSG LANDING LANDSCAPE DRAWING-NO. CARPET CARPET REDUCER STRIP LARGE LAUNDRY LAVATORY CASMENT LEFT HAND LEFT HAND REVERSE BEVEL FABRICATED/FABRIC ASEWORK L.H.R.B. CASING F/F FACE-TO-FACE C.I. C.I.F. C.I.P. CSTG CAT. NO CAST IRON F. FIN. FACTORY FINISH LGTH ENGT LEVEL LIBRAR CAST IRON FRAME F.C.U. FAN COIL UNIT CAST IRON PIPE/CAST-IN-PLACE F.S. FAR SIDE FASTENER FEEDER CATALOG NUMBER LIGHTPROOF LIGHTING LIGHTING PANEL FEET/FOOT CATCH BASIN LTG FEET PER MINUTE CEILING FPM LIGHTING RECEPTACLE PANEL LIGHTWEIGHT C.D. CLG. HT FENCE FORM BOARD L.R.P. LTWT CEILING DIFFUSE F.BD. EILING HEIGHT CEM. CEM. PLA FIGURE LTWT. CONC. LIGHTWEIGHT CONCRETE FIG. EMENT PLASTER FINISH/FINISHED **\_IMESTON** FIN. FLR/F.F. FINISH FLOOR CENTER LINTEL F.T.R. FINNED TUBE RADIATION LIN. DIFF. LINEAR DIFFUSER CENTER-TO-CENTER F.A. FIRE ALARM LINEAR FEET/FOOT F.A.C.P. F. BRK LIQUID LIQUID PROPANE GAS CERAMIC CERAMIC TILI FIRE ALARM CONTROL PANEL FIRE BRICK C.BD. CHAM. CHG. CHAN. CHKD. CHKD. CHWR CHWS CHD CHCUM FIRE DAMPER FIRE EXTINGUISHER CHALKBOARD LIQUID PETROLEUM GAS L.P.G CHAMFER CHANGE LIVE LOAD F.E.C. FIRE EXTINGUISHER CABINET IVING ROOM CHANNEL CHECKERED PLATE LOCATION LOCKER F.H.C. FIRE HOSE CABINET F.H. FIRE HYDRANT LONG LEG HORIZONTAL LONG LEG VERTICAL FIRE LINE FIRE RETARDANT/FIRE RATED CHILLED WATER RETURN F.L. F.R. CHILLED WATER SUPPLY L.L.H. F.R.T.WD FIRE RETARDANT TREATED WOOD L.L.V. LOUVER LOUVER OPENING CIRCUMFERENCE F.V.C. FIRE VALVE CABINET CIR. CIRC C.BR CIRCLE/CIRCULAR FIREPLACE FPRFG. FIXT. FLASH. FHMS FHWS FIREPROOFING LOW POINT LOW PRESSURE CIRCUIT BREAKER FIXTURE L.PR. FLASHING FLAT HEAD MACHINE SCREW LUMBER POUNDS CIVIL DRAWING-NC LBS. or # CLRM C.O. CLR CLR GL CLR W.G FLAT HEAD WOOD SCREW CLASSROOM CLEAN OUT FLEXIBLE CONNECTION FLOOR F.C. FLR FLOOR CLEAN OUT FLOOR DRAIN FLOOR FINISH F.C.O. F.D. CLEAR GLASS CLEAR WIRE GLASS FLR. FIN. FLUOR. FLDG FTG CLOSET CLOSUR FLUORESCENT FOLDING FOOTING FORMBOARD COAT CLOSE MACH. MACHINE MACHINE BOLT MACHINE ROOM OEFFICIEN COLD WATER FM. BD MACH. RM FOUNDATION M.A.U. M.D.P. MAKE-UP AIR UNIT OLUMN FRAME FRAME AND COVER COMPANY MAIN DISTRIBUTION PANEL M.S.B. MAINT. OMPARTMEN FR/COV MAIN SWITCH BOARD FRMG FRZR OMPOSITION MAINTENANCE FRAMING OMPRESSED A FREEZER OMPRESSOR FULL SIZE MFR MANUFACTURER F.S. FURN. FURR. FUT. MARBLE MARK CONCRETE FURNISH/FURNISHED CONCRETE MASONRY UNIT CONDENSING WATER RETURN FURRING/FURRED FUTURE MASONRY M.O. MATL MASONRY OPENING ONDENSING WATER SUPPLY MATERIAL MAXIMUM ONFERENCE MAX. MECHANICAL MECHANICAL DRAWING-NO CONSTRUCTION GAUGE GALLON GALLONS PER HOUR GALLONS PER MINUTE MEDICINE CABINET ONTROL JOINT CONTINUE/CONTINUOUS MEDIUM GAL. GPH GPM MED MEMB. MET. M.D.S. M.E.S. ONTRACTOR MEMBRANE CONTROL PANEL METAL CONVECTOR CONVEYOR GALV. GALV. I. GALVANIZED METAL DIVIDER STRIP GALVANIZED IRON METAL EDGE STRIP CORNER METAL LATH ORNER GUARD GSKT G.V.& B. GASKET GATE VALVE AND BOX M.L.& PLAS. METAL LATH AND PLASTER ORRIDOR/CORRUGATED METAL THRESHOLD OPPER GENERAL GLASS MET. W.P. GEN'L. METALLIC WATERPROOFING MEZZANINE GLAZING GLAZED HOLLOW TILE COUNTERSIN GLZ G.H.T. MDOT MICHIGAN DEPARTMENT OURSE TRANSPORTATION COV. COV. PI C.C.T. CU.FT. GRAB BAR GRADE/GRILLE GRADE BEAM COVER MWK MILLWORK COVER PLATE MINIMUM CUBICAL CURTAIN TRACK MIRROR CUBIC FEET/ CUBIC FO CUBIC FEET PER MINUT GRATING GRID LINE MIRROR AND SHELF MISCELLANEOUS GRANITE GREASE SEPARATOR

GREASE TRAP

GUTTER ELEVATION

GYPSUM GYPSUM BOARD

GROUT

G.F.I.

GYP. GYP.BD.

GROUND FAULT INTERRUPTOR

REG. REGISTER REINF. **REINFORCE/REINFORCING/** REINFORCEMENT REM REMOVE/REMOVABLE REPAIR REP. REQ'D. REQUIRED RESILIENT RETURN RESIL RETURN AIR R.A. RETURN AIR DIFFUSER R.A.D RETURN AIR FAN R.A.F. REVISED/REVISION REV. **REVOLUTIONS PER MINUTE** RPM RISER RIGHT HAND RIGHT HAND REVERSE BEVEL R.H. R.H.R.B. R.O.W. RVT RIGHT OF WAY RIVET ROAD ROLLING STEEL CURTAIN R.S.C. ROOF ROOF CONDUCTOR ROOF DRAIN ROOF HATCH ROOF SUMP ROOF VENTILATOR ROOFING ROOF TOP UNIT R.T.U. ROOM ROUGH OPENING Round Round Head Machine Screw RND or ¢ RHMS RHWS SAN. S.N.D. S.N.R. SCHED. SCN SECT. SERV SHTHG SHT SHT. MET. SH.& R. SHWR S.C.R. SPR. SPKR

SPEC.

spryd Spklr

STAG. ST.STL

STD

STM

STIFF.

STOR.

STR.

STL. PL.

STO. FR.

STRUCT.

S.G.F.T.

SS.D. SS.D.C.

S.STL

SUB. S.A.G.

SUBST

S.A.R.

S.D.

S.F.

MISCELLANEOUS IRON

MOP STRIP AND SHELF

MEETING/MOUNTING

MOTOR OPERATED DAMPER

NOISE REDUCTION COEFFICIENT

MODEL

M.S.& S

M.O.D.

MLDG MTD

MTG

MULL M

NAT.

N.S.

NEUT.

NOM. NOR.

NOS. N.I.C. N.T.S.

NO. or #

N

MONUMENT

MOULDING MOUNTED

MOVEABLE

MULLION THOUSAND (1000)

NATURAL

NEAR SIDE

NEUTRAL

NOMINAL

NORMAL NORTH

NUMBER

NOSING NOT-IN-CONTRACT

NOT-TO-SCALE

MOV. PARTN. MOVEABLE PARTITION

OBSCUR

OPAQUE

OPENING OPERATOR

OFFICE ON CENTER

OBS.GL

OPQ. OPG. OPER OPP.

OPP.HD.

0.H.S.

OHD OHD.DR

PTD

PNL P.T.D.

PRI PK(

P.BD

PRTN

PAT.

PASS.

**PVMT** 

PVG

PED.

PERF

PERIM. PERM. PERP.

P. or Ø PHOTO.

P.H.

PLAS.

PL. LAM

PL. GL.

PLAT.

PLBG

PLWD

POL. PVC

POR.

PORT

POS.

PCF

P.T.R.

PFN.

P.G.

P.R.V

PRIM.

PROJ PROP

QTY Q.T.

QTR. RD

RBT RAD. or R.

R.W.C.

RECV.

REFF

R.R.

PREFAB.

P.T.WD

PORC. PORC. ENAM

P.T

P.T.W.R.

OBSCURE GLASS

OPPOSITE OPPOSITE HAND

ORIGINAL ORNAMENTAL

OUT-TO-OUT

OUTSIDE AIR

OVERHEAD

OXYGEN

PAINTED

PAIR

PAGE

OUTSIDE DIAMETE OUTSIDE FACE

OVAL HEAD SCREW

OVERHEAD DOOR

PAPER TOWEL DISPENSER

PAPER TOWEL WASTE

RECEPTACLE

PARTICLE BOARD

PARALLEL

PASSAGE

PAVEMENT

PEDESTAL

PERFORATED

PERIMETER PERMANENT

PERPENDICULAR

PLASTIC LAMINATE

POINT OF TANGENCY

POLISH/POLISHED

POLYVINYLCLORIDE

PORCELAIN ENAMEL

POST INDICATOR VALVE

POUNDS PER LINEAR FOOT

POUNDS PER SQUARE FOOT

POUNDS PER SQUARE INCH

PRECAST TERRAZZO RECEPTOR

PRESERVATIVE TREATED WOOD

PRESSURE REDUCING VALVE

POUNDS PER CUBIC FOOT

PORCELAIN

POROUS

PORTABL

POSITION

POWER PANEL

PREFABRICATED

PRESSURE GAUGE

PROPERTY LINE

PUBLIC ADDRE

PURSE SHELF

PUSH BUTTON

QUANTITY

RABBET RADIUS

RAILROAD

RECESS

REDUCER

REDWOOD

RECEPTACLE

QUARRY TILE QUARTER QUARTER ROUND

RAIN WATER CONDUCTOR

RECTANGLE/RECTANGULAR

REFLECTED/REFLECTIVE

RECEIVE/RECEIVING

RECEPTACLE PANEL

REFER/REFERENCE

REFRIGERATOR

PROJECT/PROJECTION

PROPERTY/PROPOSED

PREFINISHED

POINT OF CURVATURE

PLATE GLASS

PLATFORM

PLUMBING

PLYWOOD

PHYSICALLY HANDICAPPED

PHOTOGRAPH

PIECE

PLASTER

ROUND HEAD WOOD SCREW RUBBER TILE Sanitary Sanitary Napkin Dispenser Sanitary Napkin Receptacle SCHEDULE SCREEN SEATING SECTION SERVICE SERVICE SINK SHEATHING SHEET SHEET SHEET METAL SHELF AND ROD SHOWER SHOWER CURTAIN ROD SHOWER DOOR SIDEWALK SIMILAR SINGLE SINK SOAP DISPENSER SOLID CORE SOUND TRANSMISSION CLASS SOUTH SPACE SPARE SPEAKER SPECIFICATIONS SPLITTER DAMPER SPRAYED SPRINKLER SQUARE SQUARE FEET/SQUARE FOOT STAGGERED STAINLESS STEEL STANDARD STANDPIPE STATIC PRESSURE STATION STEAM STEEL STEEL PLATE STIFFENER STOREFRONT STORAGE STRAIGHT STREET STRUCTURAL STRUCTURAL DRAWING-NO. STRUCTURAL GLAZED FACING TILE

STRUCTURAL STEEL SUBSOIL DRAIN SUBSOIL DRAIN CONNECTION SUBSTATION SUPPLY AIR GRILLE SUPPLY DIFFUSER/ DUCT SUSTITUTE SUPPLY AIR REGISTER

SUPPLY FAN

CULV C.D.

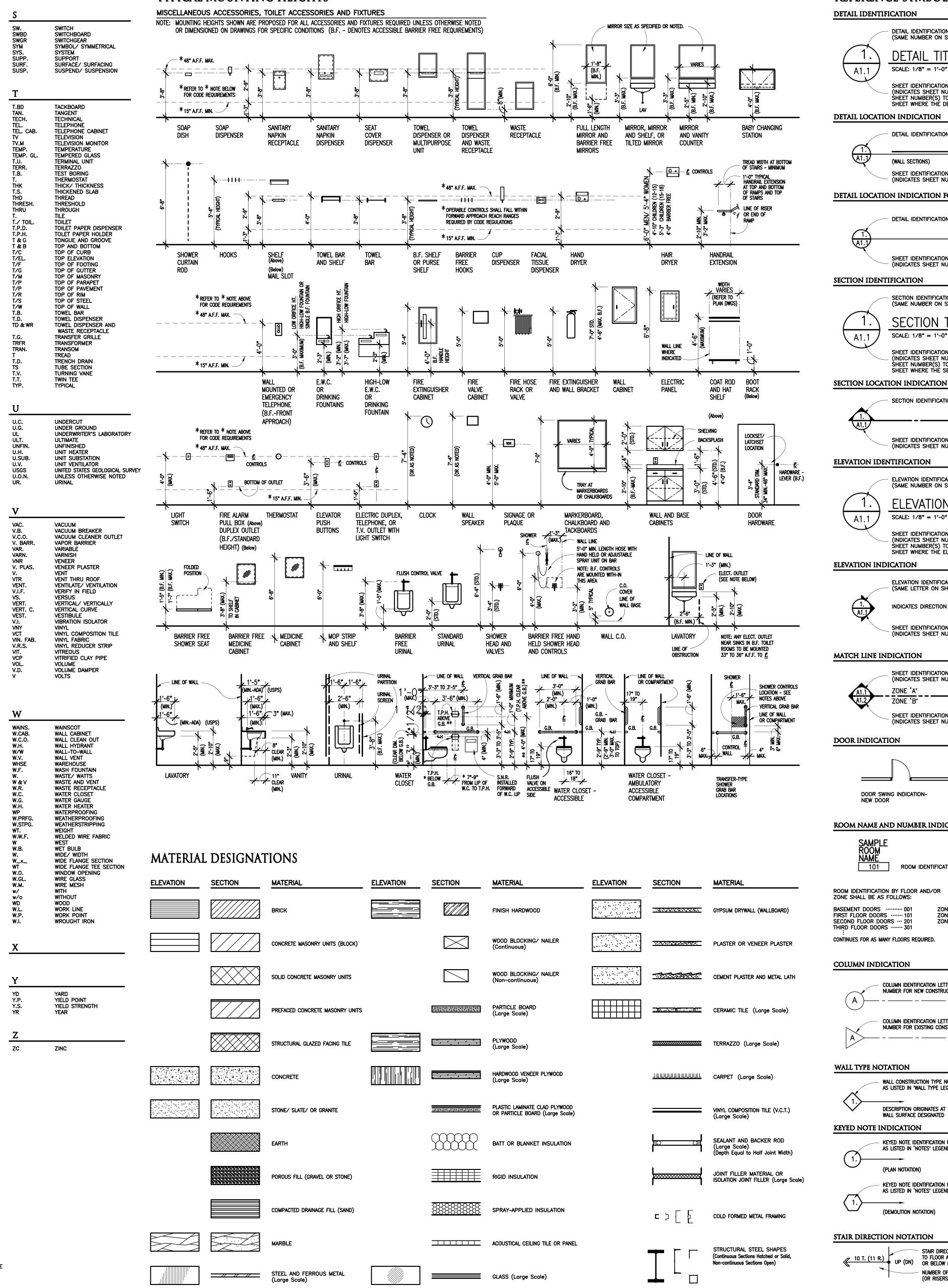
CYC.

CULVERT

CYCLES

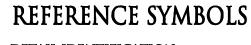
CUP DISPENSER

#### TYPICAL MOUNTING HEIGHTS



ALUMINUM AND NON-FERROUS METAL (Large Scale)

GLASS (Small Scale)



- DETAIL IDENTIFICATION NUMBER (SAME NUMBER ON SHEET WHERE DRAWN OR REFERENCED) DETAIL TITLE SCALE: 1/8" = 1'-0" SHEET IDENTIFICATION NUMBER (INDICATES SHEET NUMBER WHERE DETAIL IS DRAWN OR SHEET NUMBER(S) TO REFER TO WHEN REFERENCED ON THE SHEET WHERE THE DETAIL IS DRAWN) DETAIL IDENTIFICATION NUMBER (A1.1) (WALL SECTIONS) (PLAN SECTIONS) SHEET IDENTIFICATION NUMBER (INDICATES SHEET NUMBER WHERE DETAIL IS DRAWN) DETAIL LOCATION INDICATION FOR ENLARGED PLANS DETAIL IDENTIFICATION NUMBER SHEET IDENTIFICATION NUMBER (INDICATES SHEET NUMBER WHERE DETAIL IS DRAWN) SECTION IDENTIFICATION NUMBER (SAME NUMBER ON SHEET WHERE DRAWN OR REFERENCED) SECTION TITLE SCALE: 1/8" = 1'-0" SHEET IDENTIFICATION NUMBER (INDICATES SHEET NUMBER WHERE SECTION IS DRAWN OR SHEET NUMBER(S) TO REFER TO WHEN REFERENCED ON THE SHEET WHERE THE SECTION IS DRAWN) SECTION IDENTIFICATION NUMBER SHEET IDENTIFICATION NUMBER (INDICATES SHEET NUMBER WHERE SECTION IS DRAWN) ELEVATION IDENTIFICATION NUMBER (SAME NUMBER ON SHEET WHERE DRAWN OR REFERENCED) ELEVATION TITLE SCALE: 1/8" = 1'-0" SHEET IDENTIFICATION NUMBER (INDICATES SHEET NUMBER WHERE ELEVATION IS DRAWN OR SHEET NUMBER(S) TO REFER TO WHEN REFERENCED ON THE SHEET WHERE THE ELEVATION IS DRAWN) ELEVATION IDENTIFICATION NUMBER(S) (SAME LETTER ON SHEET WHERE DRAWN OR REFERENCED) INDICATES DIRECTION OF VIEW OR MULTIPLE VIEWS SHEET IDENTIFICATION NUMBER INDICATES SHEET NUMBER WHERE ELEVATION IS DRAWN) SHEET IDENTIFICATION NUMBER (INDICATES SHEET NUMBER OF DRAWING) ZONE 'A' ZONE 'A' A1.1 ZONE 'B' ZONE 'B' A1.2 ZONE 'A' SHEET IDENTIFICATION NUMBER (INDICATES SHEET NUMBER WHERE DRAWING IS CONTINUED) DOOR SWING INDICATION-DOOR SWING INDICATION-DOOR SWING INDICATION-EXISTING DOOR TO BE REMOVED EXISTING DOOR ROOM NAME AND NUMBER INDICATION DOOR IDENTIFICATION DOOR TO ROOM SHALL REPEAT ROOM NUMBER ASSIGNED TO ROOM. MULTIPLE DOORS TO ROOM SHALL REPEAT ROOM NUMBER WITH A POSTSCRIPT LETTER FOR EACH ADDITIONAL DOOF ROOM IDENTIFICATION NUMBER REQUIRED. 101 / 101A / 101B FOR NUMBER NEEDED DOOR IDENTIFICATION BY FLOOR AND/OR ZONE SHALL BE AS FOLLOWS: ZONE A ··· A101 ZONE B ··· B101 ZONE C ··· C101 ZONE A ··A101 ZONE B ··B101 ZONE C ··C101 FIRST FLOOR DOORS ...... 101 SECOND FLOOR DOORS ··· 201 THIRD FLOOR DOORS ...... 301 CONTINUES FOR AS MANY FLOORS REQUIRED. NORTH INDICATION ASSUMED NORTH IF NOT COLUMN IDENTIFICATION LETTER OR NUMBER FOR NEW CONSTRUCTION TRUE NORTH OR PLAN NORTH WHERE TRUE NORTH IS INDICATED BY ARROW NOTATION COLUMN IDENTIFICATION LETTER OR NUMBER FOR EXISTING CONSTRUCTION TRUE - \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ NORTH CASEWORK NOTATION WALL CONSTRUCTION TYPE NUMBER ASEWORK IDENTIFICATION NUMBER BASED ON MANUFACTURERS CATALOG AS LISTED IN 'WALL TYPE LEGEND' NUMBERS AS NOTED IN SPECIFICATIONS OR 'CASEWORK LEGEND' A1-100-36 ------DESCRIPTION ORIGINATES A WALL SURFACE DESIGNATE ADDENDUM INDICATION KEYED NOTE IDENTIFICATION NUMBE ADDENDUM NUMBER AS LISTED IN 'NOTES' LEGEND. (Current revisions shall be shown Encircled by a freeform line) (PLAN NOTATION) BULLETIN INDICATION KEYED NOTE IDENTIFICATION NUMBER AS LISTED IN 'NOTES' LEGEND. BULLETIN NUMBER (CURRENT REVISIONS SHALL BE SHOWN (DEMOLITION NOTATION) ENCIRCLED BY A FREEFORM LINE) DRAWING DIMENSION LINE INDICATION STAIR DIRECTION TO FLOOR ABOVE (UP) NOTE: DO NOT SCALE DRAWINGS WITHOUT UP (DN) TO FLOOR ABUVE (UP (DN) 10'–0" GRAPHIC SCALES WITH NUMBER OF TREADS PROPORTIONS OTHER (or risers) in stair run THAN 1:1 DRAWING NOTATION INDICATION MATERIAL OR WORK DIVISION NOTATION MATERIAL NOTATION AND INFORMATION MATERIAL 'A' MATERIAL 'B' (REFER TO TECHNICAL SPECIFICATIONS (NEW CONST.) (EXIST. CONST.) FOR MATERIAL DESCRIPTIONS AND METHODS JOINT BETWEEN MATERIALS OF CONSTRUCTION)



PROJECT NO.

**22096B** 

ISSUE DAT	ſES	
•	_ <u>.</u>	_
•	_	_
•		_
•		
•		
•		_
•		—
•		
•		_
•	•	_
10-03-2024	CONSTRUCTION DOCUMENTS	_
DATE:	ISSUED FOR:	
DRAWN		
CHECKED		
APPROVED		
		_

DRAWING TITLE General Information

**Troy School District** Troy, Michigan

## Wass **Elementary School Playground Remodel Bid Package No.01B**

CONSULTANT

**PROJECT TITLE** 

**REGISTRATION SEAL** 



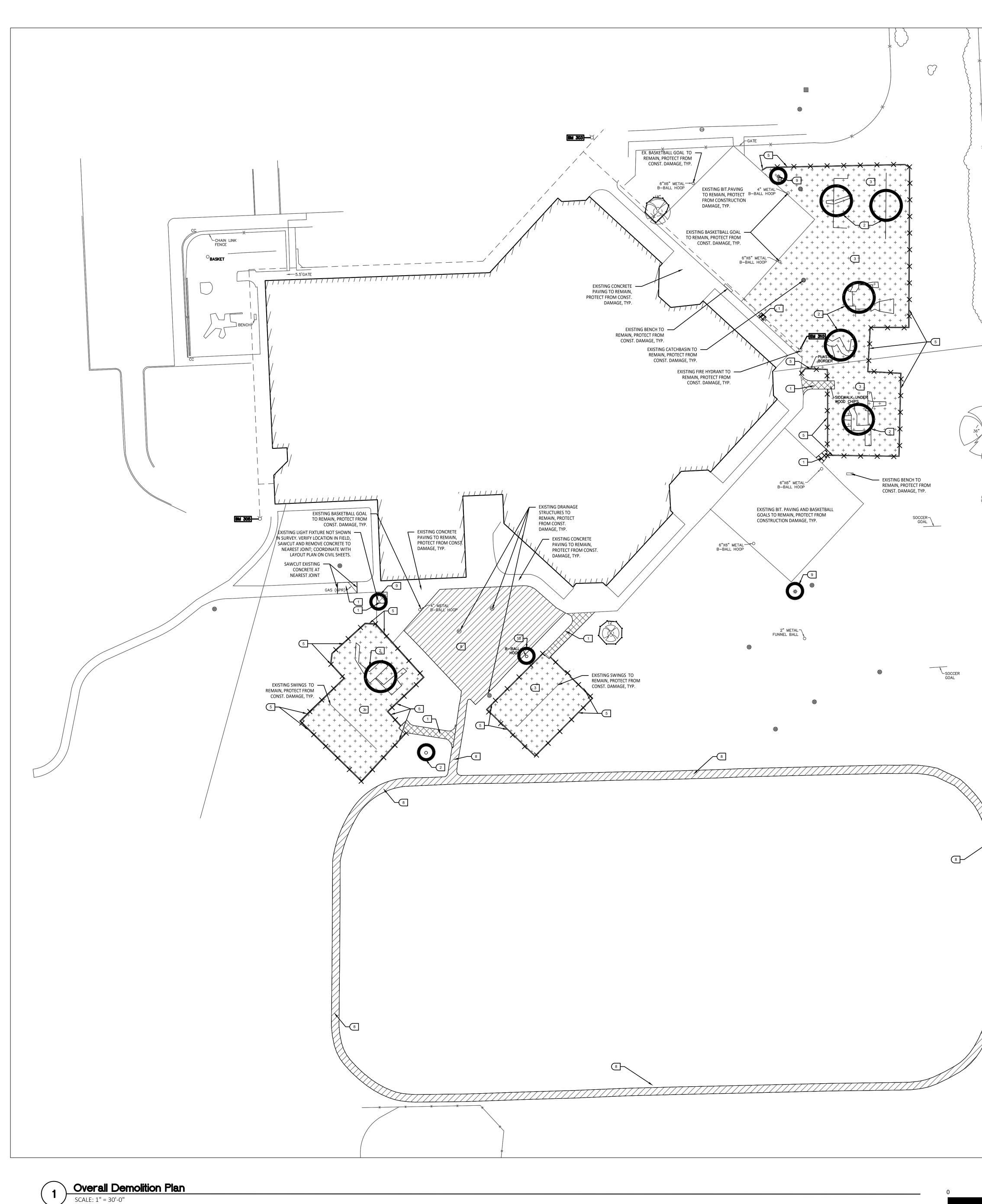
TMP ARCHITECTURE INC

1191 WEST SQUARE LAKE ROAD

BLOOMFIELD HILLS • MICHIGAN • 48302

PH • 248.338.4561 FX • 248.338.0223

EM · INFO @ TMP-ARCHITECTURE.COM



## SITE DEMOLITION KEY

- 1 SAWCUT AND REMOVE EXISTING CONCRETE PAVING INCLUDING SUB-BASE.
- 2 REMOVE EXISTING PLAY EQUIPMENT INCLUDING ALL CONCRETE FOOTINGS. DESTROY ALL PLAY EQUIPMENT COMPLETELY SO THAT IT CANNOT BE RE-ASSEMBLED.
- 3 REMOVE EXISTING PLAY SAFETY SURFACING, INCLUDING DRAINAGE AGGREGATE.
- 4 PLAYGROUND CONTRACTOR TO SALVAGE EXISTING PLAY EQUIPMENT AND RE-INSTALL ON-SITE.
- 5 REMOVE EXISTING PLAY EDGING COMPLETELY.
- 6 N/A
- (7) N/A

(12) N/A

8 SAWCUT AND REMOVE EXISTING BITUMINOUS PAVEMENT INCLUDING SUB-BASE. 9 OWNER TO CONFIRM POWER DISCONNECTION FROM LIGHT FIXTURE. SITE CONTRACTOR TO CUT WIRE AT A MINIMUM OF 24" BELOW FINISHED GRADE.

PAVEMENT AND BASE

INCLUDING SUBBASE

IN THIS SHADED AREA

**REMOVE MISCELLANEOUS** FEATURE AS NOTED

RELOCATE EXISTING SITE LIGHTING PER ELEC. PLAN

• — • TEMPORARY TREE PROTECTION FENCE, REFER TO DETAIL 1/C4.0

**REMOVE TREE** 

- (10) SALVAGE EXISTING PLAY EQUIPMENT, PLAYGROUND CONTRACTOR TO REINSTALL ON SITE.
- (11) SALVAGE EXISTING SITE FURNISHINGS AND REINSTALL AT LOCATION TO BE DETERMINED.

#### **DEMOLITION NOTES:**

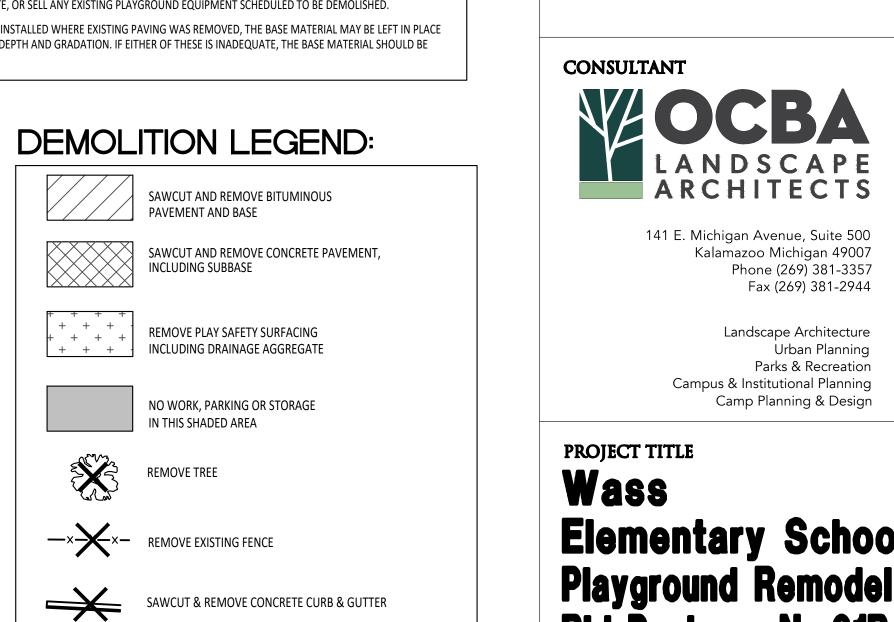
- SURVEY OF EXISTING CONDITIONS PROVIDED BY PEA GROUP, 1849 POND RUN, AUBURN HILLS, MI, 48326. 248-689-9090.
- VERIFY LOCATIONS OF ALL BELOW GRADE UTILITIES PRIOR TO BEGINNING WORK. 72 HOURS BEFORE YOU DIG CALL "MISS DIG" AT 1-800-482-7171.
- PROTECT ALL TREES & EXISTING FEATURES TO REMAIN AS SPECIFIED.
- REFER TO LAYOUT PLAN FOR LIMITS OF WORK.

REMOVED AND REPLACED.

- DISCREPANCIES BETWEEN SITE AND PLANS SHOULD BE REPORTED TO THE PROJECT MANAGER IMMEDIATELY.
- ALL TOPSOIL AND EXCESS FILL MATERIAL SHALL BE STOCKPILED ON SITE SEPARATELY FOR LATER RE-USE. LOCATE STOCKPILES IN AREAS AS DIRECTED BY CONSTRUCTION MANAGER AND PROTECT FROM EFFECTS OF EROSION.
- ALL PAVEMENT DEMOLITION TO BE SAWCUT AND REMOVED COMPLETELY, INCLUDING BASE/SUBBASE MATERIALS.
- ALL EXISTING PLAYGROUND EQUIPMENT TO BE REMOVED MUST BE DESTROYED COMPLETELY SO THAT IT CANNOT BE RE-ASSEMBLED. THE CONTRACTOR IS NOT ALLOWED TO RE-USE, DONATE, OR SELL ANY EXISTING PLAYGROUND EQUIPMENT SCHEDULED TO BE DEMOLISHED.
- IN LOCATIONS WHERE PROPOSED PAVING WILL BE INSTALLED WHERE EXISTING PAVING WAS REMOVED, THE BASE MATERIAL MAY BE LEFT IN PLACE PROVIDED IT IS TESTED TO BE ADEQUATE IN BOTH DEPTH AND GRADATION. IF EITHER OF THESE IS INADEQUATE, THE BASE MATERIAL SHOULD BE

×

Ο



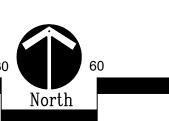
#### TREE PROTECTION NOTES:

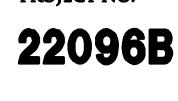
PROVIDE AND MAINTAIN TEMPORARY TREE PROTECTION FENCING IN ALL LOCATIONS MARKED • -----• • TREE FENCING SHALL BE PROVIDED AND IN PLACE PRIOR TO ANY WORK ON SITE (INCLUDING TOPSOIL STRIPPING OPERATIONS). REFER TO THE FOLLOWING NOTES AND THE SPECIFICATIONS FOR TREE PROTECTION REQUIREMENTS.

- NO CONSTRUCTION OPERATIONS, EQUIPMENT, MATERIALS OR TOPSOIL SHALL BE ALLOWED WITHIN THE TREE PROTECTION AREAS.
- EXISTING GROUND COVER AND TOPSOIL SHALL NOT BE REMOVED FROM TREE PROTECTION AREAS DURING EARTHWORK PHASE.
- VEHICULAR TRAFFIC, PARKING, EQUIPMENT OR MATERIAL STORAGE MAY NOT OCCUR WITHIN THE TREE PROTECTION AREAS AT ANY TIME. NO EXCAVATION SHALL BE MADE WITHIN THE TREE PROTECTION AREAS EXCEPT AS
- NOTED OTHERWISE.









PROJECT NO.

ISSUE DAT	TES
•	- •
•	- •
•	
•	_ <u>•</u>
•	
•	·
•	·
•	· · · · · · · · · · · · · · · · · · ·
•	
•	
•	
10-03-2024	CONSTRUCTION DOCUMENTS
DATE:	ISSUED FOR:
DRAWN	DID
CHECKED	DID
APPROVED	DID

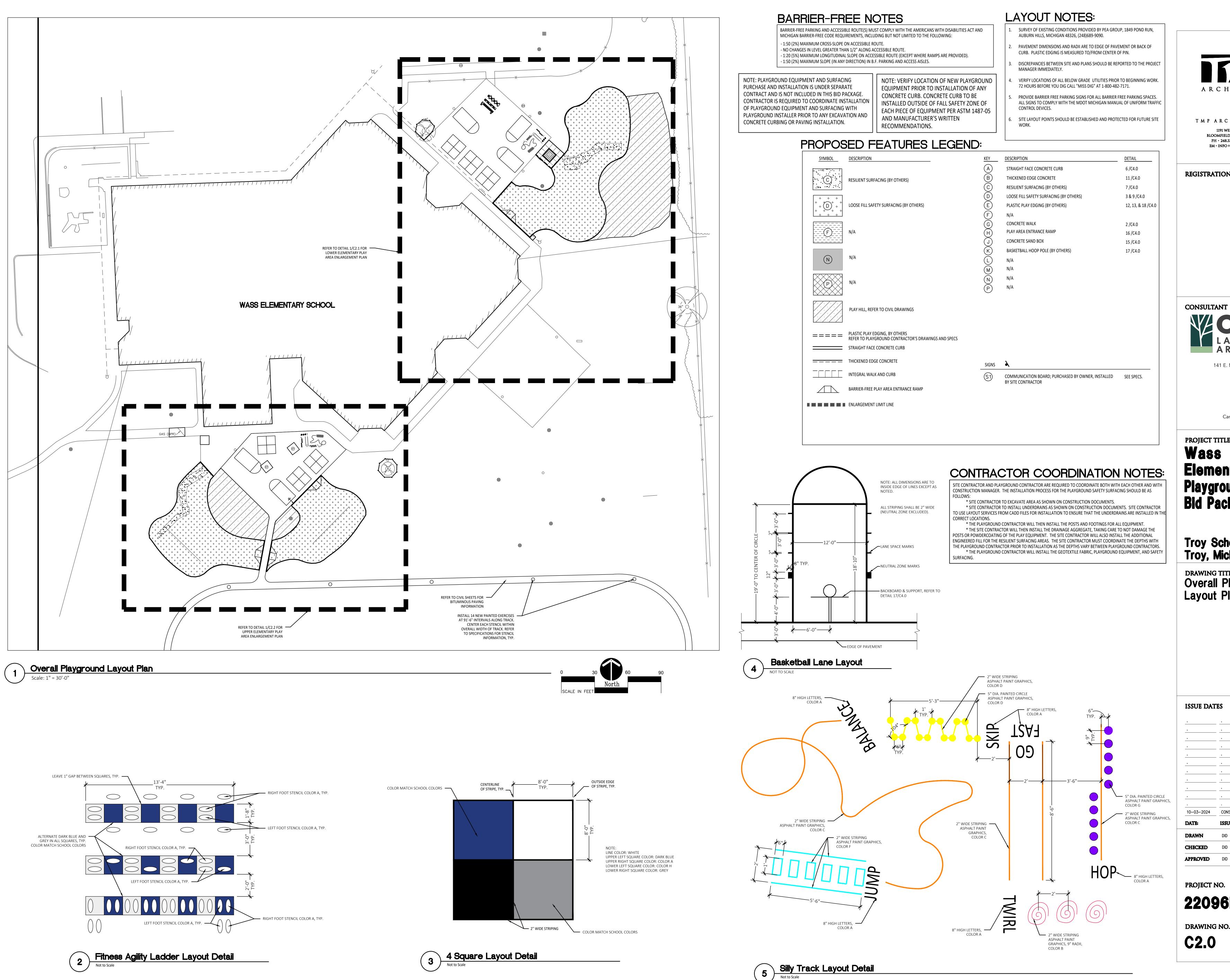


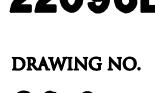




TMP ARCHITECTURE INC 1191 WEST SQUARE LAKE ROAD BLOOMFIELD HILLS • MICHIGAN • 48302 PH • 248.338.4561 FX • 248.338.0223 EM • INFO © TMP-ARCHITECTURE.COM

**REGISTRATION SEAL** 







	ARCHITECTS
	141 E. Michigan Avenue, Suite 500 Kalamazoo Michigan 49007 Phone (269) 381-3357 Fax (269) 381-2944
	Landscape Architecture Urban Planning Parks & Recreation Campus & Institutional Planning Camp Planning & Design
	TITLE
88	
	entary School
	round Remodel ackage No.01B
	School District Michigan
	ll Playground t Plan
you	t Plan
<b>YOU</b> JE DA	t       Plan         r       .         .       . <t< th=""></t<>
<b>YOU</b> JE DA 3–2024 <b>±</b>	t       Plan         t       Plan <td< th=""></td<>
<b>YOU</b> JE DA 3–2024 E: WN	t       Plan         TES       .         .       .        <
	t       Plan         t       Plan <td< th=""></td<>
<b>YOU</b> JE DA 3-2024 E: WN	t       Plan         TES       .         .       .         .       .         .       .         .       .         .       .         .       .         .       .         .       .         .       .         .       .         .       .         .       .         .       .         .       .         .       .         .       .         .       .         .       .         .       .         DID       .         DID       .         DID       .



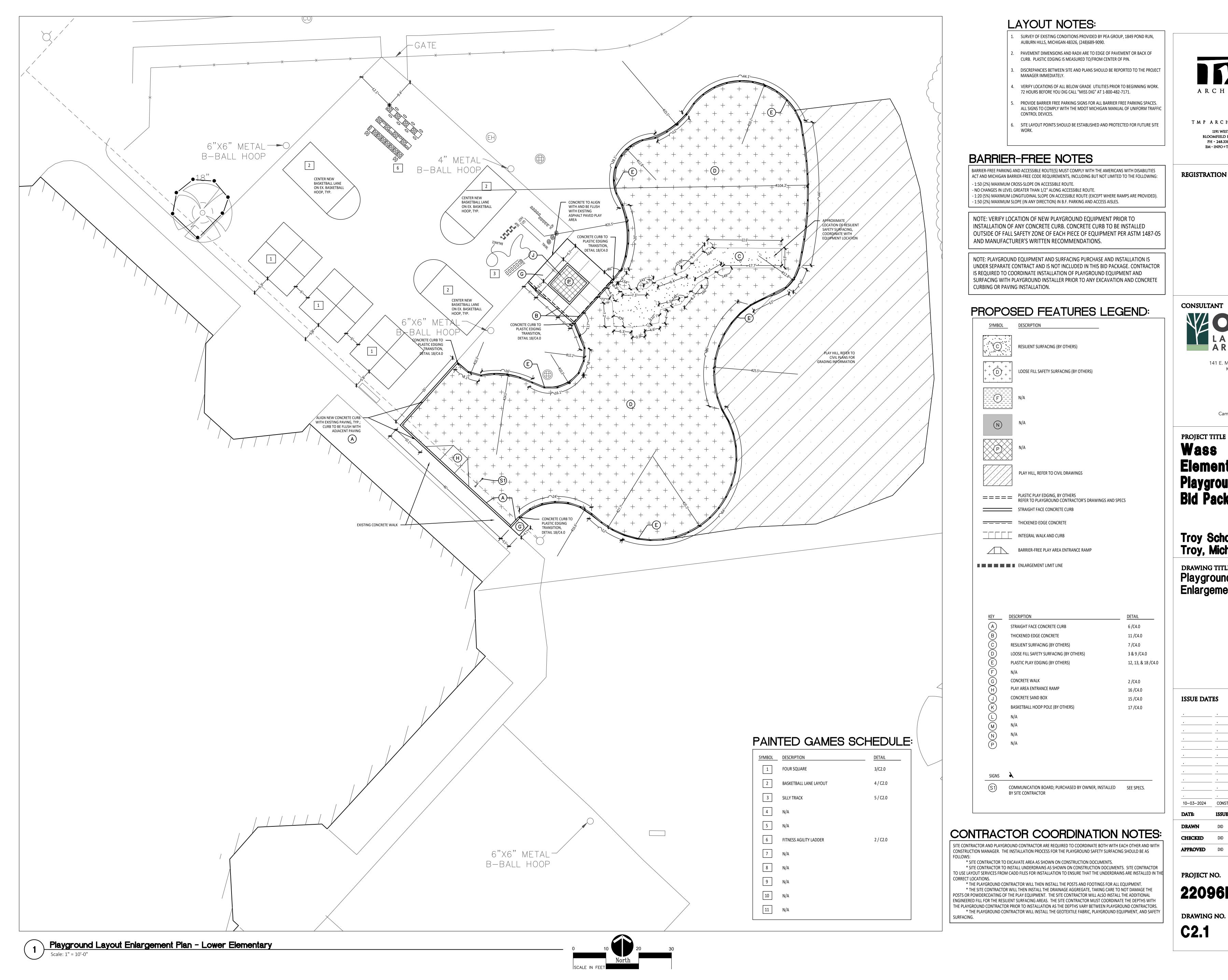
**REGISTRATION SEAL** 

ARCHITECTURE

TMP ARCHITECTURE INC

1191 WEST SQUARE LAKE ROAD BLOOMFIELD HILLS • MICHIGAN • 48302

PH • 248.338.4561 FX • 248.338.0223 EM • INFO © TMP-ARCHITECTURE.COM







DJECT	NO.	

UE DAT	ES
	•
	·
	<u>.</u>
	·
	·
	·
	•
	•
	·
7 0004	
03–2024	CONSTRUCTION DOCUMENTS
<b>E:</b>	ISSUED FOR:
WN	DID
CKED	DID
ROVED	DID



# Wass **Elementary School Playground Remodel Bid Package No.01B**

Fax (269) 381-2944 Landscape Architecture Urban Planning Parks & Recreation Campus & Institutional Planning Camp Planning & Design

ARCHITECTS 141 E. Michigan Avenue, Suite 500 Kalamazoo Michigan 49007 Phone (269) 381-3357



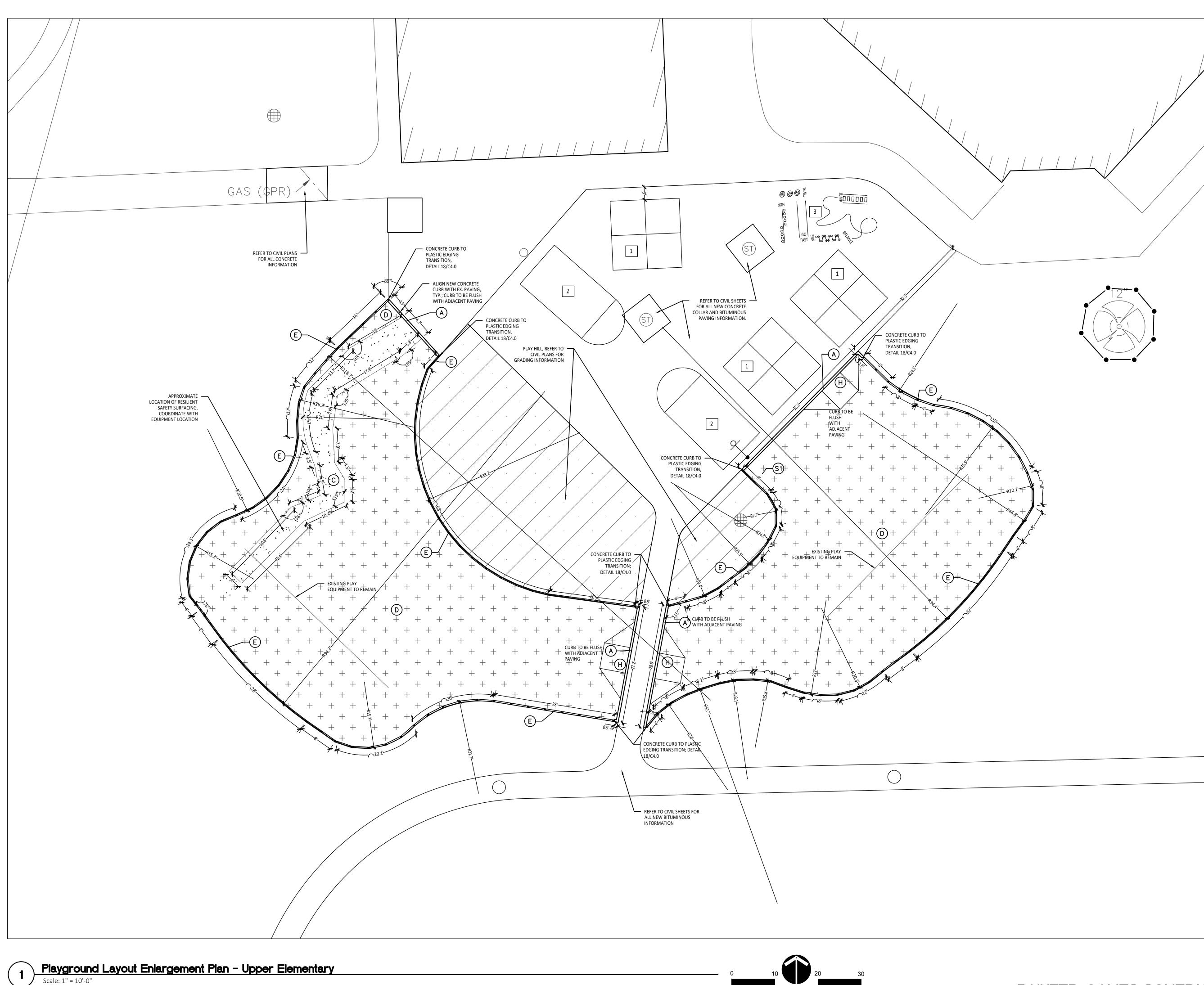








**REGISTRATION SEAL** 



#### CONTRACTOR COORDINATION NOTES:

SITE CONTRACTOR AND PLAYGROUND CONTRACTOR ARE REQUIRED TO COORDINATE BOTH WITH EACH OTHER AND WITH CONSTRUCTION MANAGER. THE INSTALLATION PROCESS FOR THE PLAYGROUND SAFETY SURFACING SHOULD BE AS FOLLOWS: \* SITE CONTRACTOR TO EXCAVATE AREA AS SHOWN ON CONSTRUCTION DOCUMENTS. \* SITE CONTRACTOR TO INSTALL UNDERDRAINS AS SHOWN ON CONSTRUCTION DOCUMENTS. SITE CONTRACTOR

TO USE LAYOUT SERVICES FROM CADD FILES FOR INSTALLATION TO ENSURE THAT THE UNDERDRAINS ARE INSTALLED IN THE CORRECT LOCATIONS. \* THE PLAYGROUND CONTRACTOR WILL THEN INSTALL THE POSTS AND FOOTINGS FOR ALL EQUIPMENT.

\* THE SITE CONTRACTOR WILL THEN INSTALL THE DRAINAGE AGGREGATE, TAKING CARE TO NOT DAMAGE THE POSTS OR POWDERCOATING OF THE PLAY EQUIPMENT. THE SITE CONTRACTOR WILL ALSO INSTALL THE ADDITIONAL ENGINEERED FILL FOR THE RESILIENT SURFACING AREAS. THE SITE CONTRACTOR MUST COORDINATE THE DEPTHS WITH THE PLAYGROUND CONTRACTOR PRIOR TO INSTALLATION AS THE DEPTHS VARY BETWEEN PLAYGROUND CONTRACTORS. \* THE PLAYGROUND CONTRACTOR WILL INSTALL THE GEOTEXTILE FABRIC, PLAYGROUND EQUIPMENT, AND SAFETY SURFACING.

#### LAYOUT NOTES:

- SURVEY OF EXISTING CONDITIONS PROVIDED BY PEA GROUP, 1849 POND RUN, AUBURN HILLS, MICHIGAN 48326, (248)689-9090.
- PAVEMENT DIMENSIONS AND RADII ARE TO EDGE OF PAVEMENT OR BACK OF CURB. PLASTIC EDGING IS MEASURED TO/FROM CENTER OF PIN.
- DISCREPANCIES BETWEEN SITE AND PLANS SHOULD BE REPORTED TO THE PROJECT MANAGER IMMEDIATELY.
- VERIFY LOCATIONS OF ALL BELOW GRADE UTILITIES PRIOR TO BEGINNING WORK. 72 HOURS BEFORE YOU DIG CALL "MISS DIG" AT 1-800-482-7171.
- PROVIDE BARRIER FREE PARKING SIGNS FOR ALL BARRIER FREE PARKING SPACES. ALL SIGNS TO COMPLY WITH THE MDOT MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
- SITE LAYOUT POINTS SHOULD BE ESTABLISHED AND PROTECTED FOR FUTURE SITE WORK.

#### BARRIER-FREE NOTES

BARRIER-FREE PARKING AND ACCESSIBLE ROUTE(S) MUST COMPLY WITH THE AMERICANS WITH DISABILITIES ACT AND MICHIGAN BARRIER-FREE CODE REQUIREMENTS, INCLUDING BUT NOT LIMITED TO THE FOLLOWING: - 1:50 (2%) MAXIMUM CROSS-SLOPE ON ACCESSIBLE ROUTE.

- NO CHANGES IN LEVEL GREATER THAN 1/2" ALONG ACCESSIBLE ROUTE. - 1:20 (5%) MAXIMUM LONGITUDINAL SLOPE ON ACCESSIBLE ROUTE (EXCEPT WHERE RAMPS ARE PROVIDED). - 1:50 (2%) MAXIMUM SLOPE (IN ANY DIRECTION) IN B.F. PARKING AND ACCESS AISLES.

NOTE: VERIFY LOCATION OF NEW PLAYGROUND EQUIPMENT PRIOR TO INSTALLATION OF ANY CONCRETE CURB. CONCRETE CURB TO BE INSTALLED OUTSIDE OF FALL SAFETY ZONE OF EACH PIECE OF EQUIPMENT PER ASTM 1487-05 AND MANUFACTURER'S WRITTEN RECOMMENDATIONS.

NOTE: PLAYGROUND EQUIPMENT AND SURFACING PURCHASE AND INSTALLATION IS UNDER SEPARATE CONTRACT AND IS NOT INCLUDED IN THIS BID PACKAGE. CONTRACTOR IS REQUIRED TO COORDINATE INSTALLATION OF PLAYGROUND EQUIPMENT AND SURFACING WITH PLAYGROUND INSTALLER PRIOR TO ANY EXCAVATION AND CONCRETE CURBING OR PAVING INSTALLATION.

## PROPOSED FEATURES LEGEND:

SYMBOL	DESCRIPTION
Ċ	RESILIENT SURFACING (BY OTHERS)
$\begin{array}{c} + & + & + & + \\ + & + & + \\ + & + & + \\ + & + &$	LOOSE FILL SAFETY SURFACING (BY OTHERS)
	N/A
N	N/A
P	N/A
	PLAY HILL, REFER TO CIVIL DRAWINGS
=====	PLASTIC PLAY EDGING, BY OTHERS REFER TO PLAYGROUND CONTRACTOR'S DRAWINGS AND SPECS
	STRAIGHT FACE CONCRETE CURB
	THICKENED EDGE CONCRETE
	INTEGRAL WALK AND CURB
	BARRIER-FREE PLAY AREA ENTRANCE RAMP
	ENLARGEMENT LIMIT LINE

KEY	DESCRIPTION	DETAIL
A	STRAIGHT FACE CONCRETE CURB	6 /C4.0
В	THICKENED EDGE CONCRETE	11 /C4.0
<b>(C)</b>	RESILIENT SURFACING (BY OTHERS)	7 /C4.0
D	LOOSE FILL SAFETY SURFACING (BY OTHERS)	3 & 9 /C4.0
E	PLASTIC PLAY EDGING (BY OTHERS)	12, 13, & 18 /C4.0
F	N/A	
G	CONCRETE WALK	2 /C4.0
H	PLAY AREA ENTRANCE RAMP	16 /C4.0
J	N/A	
K	BASKETBALL HOOP POLE (BY OTHERS)	17 /C4.0
	N/A	
M	N/A	
N	N/A	
P	N/A	
SIGNS	<b>À</b>	
<u>(S1)</u>	COMMUNICATION BOARD; PURCHASED BY OWNER, INSTALLED BY SITE CONTRACTOR	SEE SPECS

# PROJECT TITLE

## ISSU



# PAINTED GAMES SCHEDULE:

SYMBOL	DESCRIPTION	DETAIL
1	FOUR SQUARE	3/C2.0
2	BASKETBALL LANE LAYOUT	4 / C2.0
3	SILLY TRACK	5 / C2.0
4	N/A	
5	N/A	
6	FITNESS AGILITY LADDER	2 / C2.0
7	N/A	
8	N/A	
9	N/A	
10	N/A	
11	N/A	





PROJECT NO.

ISSUE DAT	<b>TES</b>
•	•
•	•
•	·
•	·
•	·
•	·
•	·
•	·
•	·
•	·
•	·
10-03-2024	CONSTRUCTION DOCUMENTS
DATE:	ISSUED FOR:
DRAWN	DID
CHECKED	DID
APPROVED	DID



# Wass **Elementary School Playground Remodel Bid Package No.01B**

Fax (269) 381-2944 Landscape Architecture Urban Planning Parks & Recreation Campus & Institutional Planning Camp Planning & Design

ARCHITECTS 141 E. Michigan Avenue, Suite 500 Kalamazoo Michigan 49007 Phone (269) 381-3357



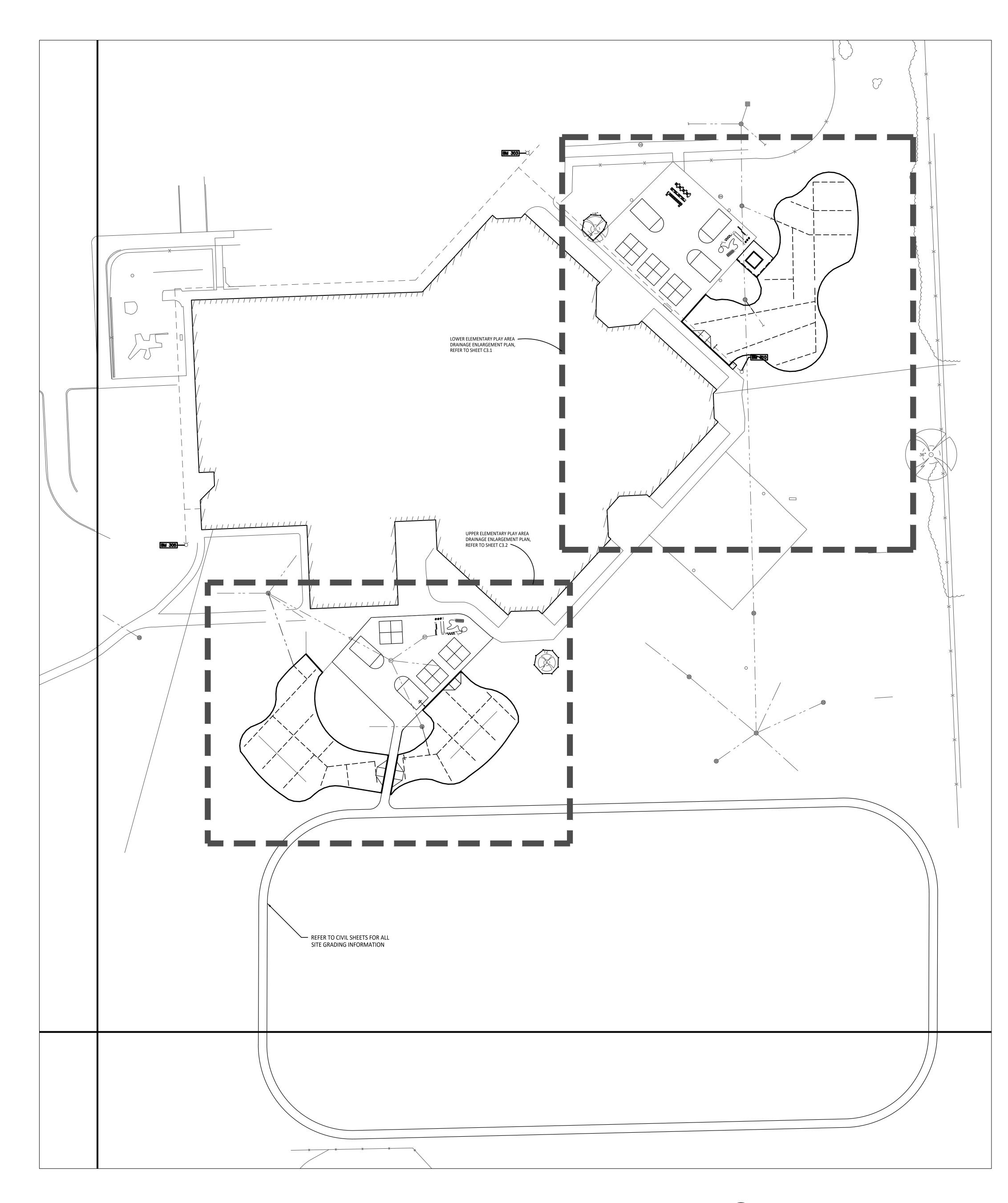




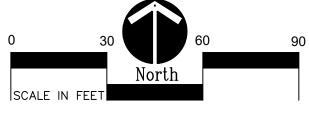


**REGISTRATION SEAL** 

TMP ARCHITECTURE INC 1191 WEST SQUARE LAKE ROAD BLOOMFIELD HILLS • MICHIGAN • 48302 PH • 248.338.4561 FX • 248.338.0223 EM • INFO © TMP-ARCHITECTURE.COM



**Overall Playground Grading Plan** 1" = 30'-0"



#### **GRADING NOTES**:

- SURVEY OF EXISTING CONDITIONS PROVIDED BY PEA GROUP, 1849 POND RUN, AUBURN HILLS, MICHIGAN, 48326, (248)689-9090.
- VERIFY LOCATIONS OF ALL BELOW GRADE UTILITIES PRIOR TO BEGINNING WORK. 72 HOURS BEFORE YOU DIG CALL "MISS DIG" AT 1-800-482-7171.
- ALL NEW PAVEMENTS AND TURF AREAS ARE INTENDED TO DRAIN FREELY WITH NO PONDING. IF THIS CANNOT BE ACHIEVED USING THE PROPOSED GRADES, NOTIFY THE OWNER'S REPRESENTATIVE IMMEDIATELY FOR RESOLUTION.
- . ALL NEW PAVEMENT ELEVATIONS AT EXTERIOR DOORS SHALL MATCH EXISTING FINISH FLOOR ELEVATIONS, TYPICAL.
- ADJUST TOP OF EXISTING MANHOLES, CATCH BASINS, VAULT COVERS, ETC. TO NEW FINISH GRADE AS REQUIRED.
- SEE SITE CIVIL PLANS FOR ALL ADDITIONAL SITE UTILITY DEMOLITION AND CONSTRUCTION.
- ALL TOPSOIL AND EXCESS FILL MATERIAL SHALL BE STOCKPILED ON SITE SEPARATELY FOR LATER RE-USE. LOCATE STOCKPILES IN AREAS AS DIRECTED BY CONSTRUCTION MANAGER AND PROTECT FROM EFFECTS OF EROSION.

#### PROPOSED FEATURES LEGEND:

\_\_\_\_\_ 695 -EXISTING CONTOURS +711.55 2067 CONC. EXISTING SPOT ELEVATIONS 710 PROPOSED CONTOURS 2% DIRECTION AND PERCENTAGE OF SLOPE -Ο NEW STORMWATER STRUCTURE, REFER TO CIVIL PLANS — — — — — PLAYGROUND UNDER DRAIN PIPE, REFER TO DETAIL 14/C4.0

INVERT ELEVATION INV

#### IMPORTANT NOTE

#### GENERAL EARTHWORK NOTE:

CUTS AND FILLS AT THIS SITE MAY OR MAY NOT BALANCE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE REQUIRED EARTHWORK VOLUMES BASED ON THE GRADING PLAN SHOWN. IF FILL IS REQUIRED, THE CONTRACTOR SHALL INCLUDE THE REQUIRED VOLUME OF IMPORTED CLASS II SAND IN THE BASE BID PROPOSAL. IF EXCESS SOILS NEED TO BE SPOILED, THE CONTRACTOR SHALL INCLUDE HAULING AND SPOILING SOILS OFF SITE IN THE BASE BID PROPOGAL, NO CONTRACT COGT ADJUGTMENTS WILL BE CONSIDERED FOR EARTHWORK REQUIRED TO BALANCE THE SITE.

IMPORTANT NOTE

#### **BARRIER-FREE NOTES**

BARRIER-FREE PARKING AND ACCESSIBLE ROUTE(S) MUST COMPLY WITH THE AMERICANS WITH DISABILITIES ACT AND MICHIGAN BARRIER-FREE CODE REQUIREMENTS, INCLUDING BUT NOT LIMITED TO THE FOLLOWING: - 1:50 (2%) MAXIMUM CROSS-SLOPE ON ACCESSIBLE ROUTE.

- NO CHANGES IN LEVEL GREATER THAN 1/2" ALONG ACCESSIBLE ROUTE.

- 1:20 (5%) MAXIMUM LONGITUDINAL SLOPE ON ACCESSIBLE ROUTE (EXCEPT WHERE RAMPS ARE PROVIDED). - 1:50 (2%) MAXIMUM SLOPE (IN ANY DIRECTION) IN B.F. PARKING AND ACCESS AISLES.

#### CONTRACTOR COORDINATION NOTES:

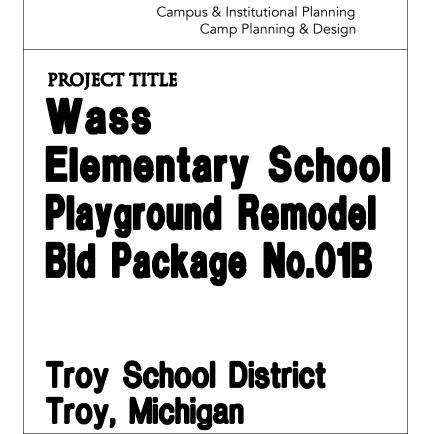
SITE CONTRACTOR AND PLAYGROUND CONTRACTOR ARE REQUIRED TO COORDINATE BOTH WITH EACH OTHER AND WITH CONSTRUCTION MANAGER. THE INSTALLATION PROCESS FOR THE PLAYGROUND SAFETY SURFACING SHOULD BE AS FOLLOWS: \* SITE CONTRACTOR TO EXCAVATE AREA AS SHOWN ON CONSTRUCTION DOCUMENTS.

\* SITE CONTRACTOR TO INSTALL UNDERDRAINS AS SHOWN ON CONSTRUCTION DOCUMENTS. SITE CONTRACTOR TO USE LAYOUT SERVICES FROM CADD FILES FOR INSTALLATION TO ENSURE THAT THE UNDERDRAINS ARE INSTALLED IN TH CORRECT LOCATIONS.

\* THE PLAYGROUND CONTRACTOR WILL THEN INSTALL THE POSTS AND FOOTINGS FOR ALL EQUIPMENT \* THE SITE CONTRACTOR WILL THEN INSTALL THE DRAINAGE AGGREGATE, TAKING CARE TO NOT DAMAGE THE POSTS OR POWDERCOATING OF THE PLAY EQUIPMENT. THE SITE CONTRACTOR WILL ALSO INSTALL THE ADDITIONAL

ENGINEERED FILL FOR THE RESILIENT SURFACING AREAS. THE SITE CONTRACTOR MUST COORDINATE THE DEPTHS WITH THE PLAYGROUND CONTRACTOR PRIOR TO INSTALLATION AS THE DEPTHS VARY BETWEEN PLAYGROUND CONTRACTORS. \* THE PLAYGROUND CONTRACTOR WILL INSTALL THE GEOTEXTILE FABRIC, PLAYGROUND EQUIPMENT, AND SAFETY SURFACING.





Phone (269) 381-3357

Landscape Architecture

Urban Planning

Parks & Recreation

Fax (269) 381-2944

DRAWING TITLE Overall Playground Drainage Plan

10-03 DATE:

DRAW CHEC \_\_\_\_\_ APPRO \_\_\_\_\_

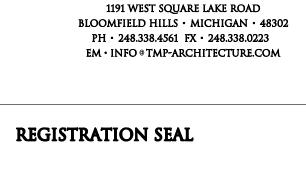






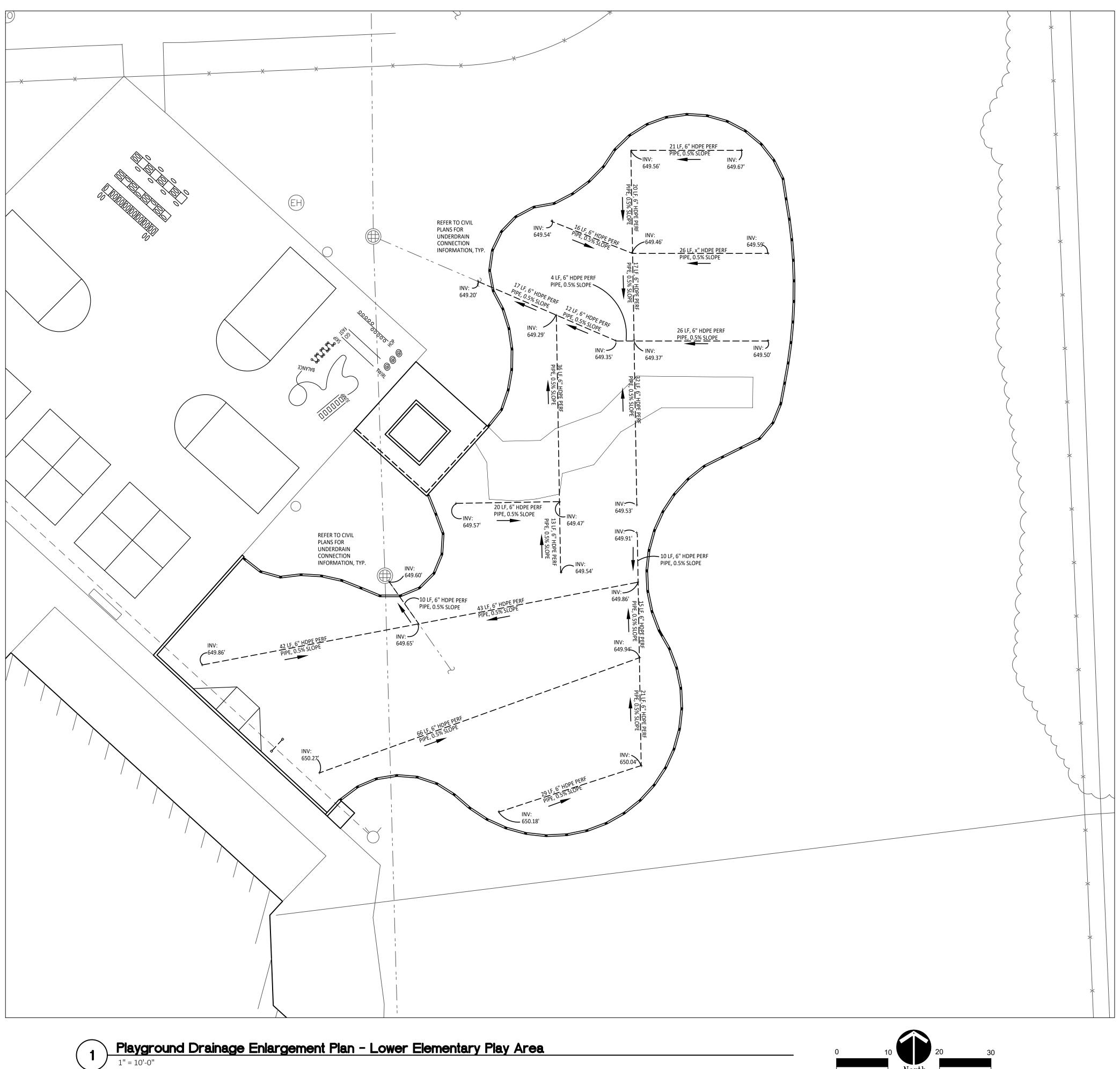
	•
	•
	•
)3–2024	CONSTRUCTION DOCUMENTS
E:	ISSUED FOR:
WN	DID
CKED	DID
OVED	DID

**ISSUE DATES** 



ARCHITECTURE

TMP ARCHITECTURE INC

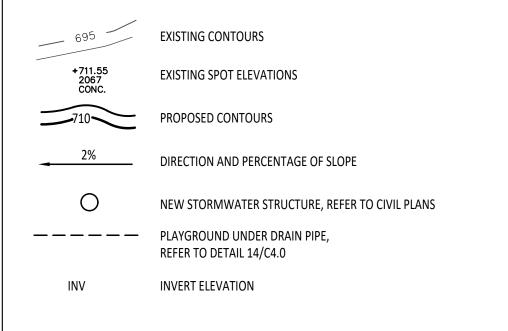


SCALE IN FE

#### **GRADING NOTES**:

- SURVEY OF EXISTING CONDITIONS PROVIDED BY PEA GROUP, 1849 POND RUN, AUBURN HILLS, MICHIGAN, 48326, (248)689-9090.
- VERIFY LOCATIONS OF ALL BELOW GRADE UTILITIES PRIOR TO BEGINNING WORK. 72 HOURS BEFORE YOU DIG CALL "MISS DIG" AT 1-800-482-7171.
- ALL NEW PAVEMENTS AND TURF AREAS ARE INTENDED TO DRAIN FREELY WITH NO PONDING. IF THIS CANNOT BE ACHIEVED USING
- THE PROPOSED GRADES, NOTIFY THE OWNER'S REPRESENTATIVE IMMEDIATELY FOR RESOLUTION.
- . ALL NEW PAVEMENT ELEVATIONS AT EXTERIOR DOORS SHALL MATCH EXISTING FINISH FLOOR ELEVATIONS, TYPICAL. ADJUST TOP OF EXISTING MANHOLES, CATCH BASINS, VAULT COVERS, ETC. TO NEW FINISH GRADE AS REQUIRED.
- SEE SITE CIVIL PLANS FOR ALL ADDITIONAL SITE UTILITY DEMOLITION AND CONSTRUCTION.
- ALL TOPSOIL AND EXCESS FILL MATERIAL SHALL BE STOCKPILED ON SITE SEPARATELY FOR LATER RE-USE. LOCATE STOCKPILES IN AREAS
- AS DIRECTED BY CONSTRUCTION MANAGER AND PROTECT FROM EFFECTS OF EROSION.

#### PROPOSED FEATURES LEGEND:



#### IMPORTANT NOTE

#### GENERAL EARTHWORK NOTE:

CUTS AND FILLS AT THIS SITE MAY OR MAY NOT BALANCE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE REQUIRED EARTHWORK VOLUMES BASED ON THE GRADING PLAN SHOWN. IF FILL IS REQUIRED, THE CONTRACTOR SHALL INCLUDE THE REQUIRED VOLUME OF IMPORTED CLASS II SAND IN THE BASE BID PROPOSAL, IF EXCESS SOILS NEED TO BE SPOILED, THE CONTRACTOR SHALL INCLUDE HAULING AND SPOILING SOILS OFF SITE IN THE BASE BID PROPOSAL. NO CONTRACT COST ADJUSTMENTS WILL BE CONSIDERED FOR EARTHWORK REQUIRED TO BALANCE THE SITE.

IMPORTANT NOTE

#### **BARRIER-FREE NOTES**

BARRIER-FREE PARKING AND ACCESSIBLE ROUTE(S) MUST COMPLY WITH THE AMERICANS WITH DISABILITIES ACT AND MICHIGAN BARRIER-FREE CODE REQUIREMENTS, INCLUDING BUT NOT LIMITED TO THE FOLLOWING:

- 1:50 (2%) MAXIMUM CROSS-SLOPE ON ACCESSIBLE ROUTE. - NO CHANGES IN LEVEL GREATER THAN 1/2" ALONG ACCESSIBLE ROUTE.
- 1:20 (5%) MAXIMUM LONGITUDINAL SLOPE ON ACCESSIBLE ROUTE (EXCEPT WHERE RAMPS ARE PROVIDED). - 1:50 (2%) MAXIMUM SLOPE (IN ANY DIRECTION) IN B.F. PARKING AND ACCESS AISLES.

#### CONTRACTOR COORDINATION NOTES:

SITE CONTRACTOR AND PLAYGROUND CONTRACTOR ARE REQUIRED TO COORDINATE BOTH WITH EACH OTHER AND WITH CONSTRUCTION MANAGER. THE INSTALLATION PROCESS FOR THE PLAYGROUND SAFETY SURFACING SHOULD BE AS FOLLOWS: \* SITE CONTRACTOR TO EXCAVATE AREA AS SHOWN ON CONSTRUCTION DOCUMENTS.

\* SITE CONTRACTOR TO INSTALL UNDERDRAINS AS SHOWN ON CONSTRUCTION DOCUMENTS. SITE CONTRACTOR FO USE LAYOUT SERVICES FROM CADD FILES FOR INSTALLATION TO ENSURE THAT THE UNDERDRAINS ARE INSTALLED IN TH CORRECT LOCATIONS. \* THE PLAYGROUND CONTRACTOR WILL THEN INSTALL THE POSTS AND FOOTINGS FOR ALL EQUIPMENT

\* THE SITE CONTRACTOR WILL THEN INSTALL THE DRAINAGE AGGREGATE, TAKING CARE TO NOT DAMAGE THE POSTS OR POWDERCOATING OF THE PLAY EQUIPMENT. THE SITE CONTRACTOR WILL ALSO INSTALL THE ADDITIONAL ENGINEERED FILL FOR THE RESILIENT SURFACING AREAS. THE SITE CONTRACTOR MUST COORDINATE THE DEPTHS WITH THE PLAYGROUND CONTRACTOR PRIOR TO INSTALLATION AS THE DEPTHS VARY BETWEEN PLAYGROUND CONTRACTORS. \* THE PLAYGROUND CONTRACTOR WILL INSTALL THE GEOTEXTILE FABRIC, PLAYGROUND EQUIPMENT, AND SAFET

SURFACING.



#### ISSU

10-03

DATE: DRAW CHEC \_\_\_\_\_ APPRO

**22096B** 







UE DAT	ES	
	•	
	·	
	·	
	·	
	·	
	•	
	·	
	·	
	·	
	·	
03-2024	CONSTRUCTION DOCUMENTS	
E:	ISSUED FOR:	
WN	DID	
CKED	DID	
ROVED	DID	



# PROJECT TITLE Wass Elementary School Playground Remodel Bid Package No.01B

Landscape Architecture Urban Planning Parks & Recreation Campus & Institutional Planning Camp Planning & Design

141 E. Michigan Avenue, Suite 500 Kalamazoo Michigan 49007 Phone (269) 381-3357 Fax (269) 381-2944









**REGISTRATION SEAL** 

TMP ARCHITECTURE INC 1191 WEST SQUARE LAKE ROAD BLOOMFIELD HILLS • MICHIGAN • 48302 PH • 248.338.4561 FX • 248.338.0223 EM • INFO @ TMP-ARCHITECTURE.COM



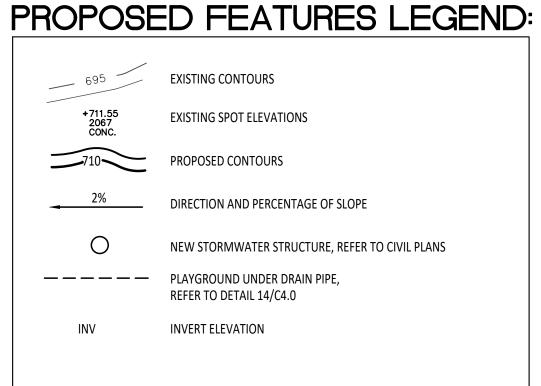


0	10 20	30
	North	
SCALE I		I

#### **GRADING NOTES**:

- SURVEY OF EXISTING CONDITIONS PROVIDED BY PEA GROUP, 1849 POND RUN, AUBURN HILLS, MICHIGAN, 48326, (248)689-9090.
- VERIFY LOCATIONS OF ALL BELOW GRADE UTILITIES PRIOR TO BEGINNING WORK. 72 HOURS BEFORE YOU DIG CALL "MISS DIG" AT 1-800-482-7171.
- ALL NEW PAVEMENTS AND TURF AREAS ARE INTENDED TO DRAIN FREELY WITH NO PONDING. IF THIS CANNOT BE ACHIEVED USING
- THE PROPOSED GRADES, NOTIFY THE OWNER'S REPRESENTATIVE IMMEDIATELY FOR RESOLUTION.
- . ALL NEW PAVEMENT ELEVATIONS AT EXTERIOR DOORS SHALL MATCH EXISTING FINISH FLOOR ELEVATIONS, TYPICAL. ADJUST TOP OF EXISTING MANHOLES, CATCH BASINS, VAULT COVERS, ETC. TO NEW FINISH GRADE AS REQUIRED.
- SEE SITE CIVIL PLANS FOR ALL ADDITIONAL SITE UTILITY DEMOLITION AND CONSTRUCTION.
- ALL TOPSOIL AND EXCESS FILL MATERIAL SHALL BE STOCKPILED ON SITE SEPARATELY FOR LATER RE-USE. LOCATE STOCKPILES IN AREAS AS DIRECTED BY CONSTRUCTION MANAGER AND PROTECT FROM EFFECTS OF EROSION.





#### IMPORTANT NOTE

#### GENERAL EARTHWORK NOTE:

CUTS AND FILLS AT THIS SITE MAY OR MAY NOT BALANCE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE REQUIRED EARTHWORK VOLUMES BASED ON THE GRADING PLAN SHOWN, IF FILL IS REQUIRED, THE CONTRACTOR SHALL INCLUDE THE REQUIRED VOLUME OF IMPORTED CLASS II SAND IN THE BASE BID PROPOSAL. IF EXCESS SOILS NEED TO BE SPOILED, THE CONTRACTOR SHALL INCLUDE HAULING AND SPOILING SOILS OFF SITE IN THE BASE BID PROPOSAL, NO CONTRACT COST ADJUSTMENTS WILL BE CONSIDERED FOR EARTHWORK REQUIRED TO BALANCE THE SITE.

IMPORTANT NOTE

#### **BARRIER-FREE NOTES**

BARRIER-FREE PARKING AND ACCESSIBLE ROUTE(S) MUST COMPLY WITH THE AMERICANS WITH DISABILITIES ACT AND MICHIGAN BARRIER-FREE CODE REQUIREMENTS, INCLUDING BUT NOT LIMITED TO THE FOLLOWING:

- 1:50 (2%) MAXIMUM CROSS-SLOPE ON ACCESSIBLE ROUTE. - NO CHANGES IN LEVEL GREATER THAN 1/2" ALONG ACCESSIBLE ROUTE.

- 1:20 (5%) MAXIMUM LONGITUDINAL SLOPE ON ACCESSIBLE ROUTE (EXCEPT WHERE RAMPS ARE PROVIDED).

- 1:50 (2%) MAXIMUM SLOPE (IN ANY DIRECTION) IN B.F. PARKING AND ACCESS AISLES.

#### CONTRACTOR COORDINATION NOTES:

SITE CONTRACTOR AND PLAYGROUND CONTRACTOR ARE REQUIRED TO COORDINATE BOTH WITH EACH OTHER AND WITH CONSTRUCTION MANAGER. THE INSTALLATION PROCESS FOR THE PLAYGROUND SAFETY SURFACING SHOULD BE AS FOLLOWS: \* SITE CONTRACTOR TO EXCAVATE AREA AS SHOWN ON CONSTRUCTION DOCUMENTS.

\* SITE CONTRACTOR TO INSTALL UNDERDRAINS AS SHOWN ON CONSTRUCTION DOCUMENTS. SITE CONTRACTOR TO USE LAYOUT SERVICES FROM CADD FILES FOR INSTALLATION TO ENSURE THAT THE UNDERDRAINS ARE INSTALLED IN TH CORRECT LOCATIONS. \* THE PLAYGROUND CONTRACTOR WILL THEN INSTALL THE POSTS AND FOOTINGS FOR ALL EQUIPMENT

\* THE SITE CONTRACTOR WILL THEN INSTALL THE DRAINAGE AGGREGATE, TAKING CARE TO NOT DAMAGE THI POSTS OR POWDERCOATING OF THE PLAY EQUIPMENT. THE SITE CONTRACTOR WILL ALSO INSTALL THE ADDITIONAL ENGINEERED FILL FOR THE RESILIENT SURFACING AREAS. THE SITE CONTRACTOR MUST COORDINATE THE DEPTHS WITH THE PLAYGROUND CONTRACTOR PRIOR TO INSTALLATION AS THE DEPTHS VARY BETWEEN PLAYGROUND CONTRACTORS. \* THE PLAYGROUND CONTRACTOR WILL INSTALL THE GEOTEXTILE FABRIC, PLAYGROUND EQUIPMENT, AND SAFET SURFACING.





#### ISSU

·\_\_\_\_ ·\_\_\_\_ -----·\_\_\_\_ . 10–03 DATE:

DRAW CHEC \_\_\_\_\_ APPRO









PROJECT NO.

UE DAT	ES
	·
	·
	•
	·
	·
	•
	·
	·
03–2024	CONSTRUCTION DOCUMENTS
E:	ISSUED FOR:
WN	DID
CKED	DID
ROVED	DID



# Wass Elementary School Playground Remodel Bid Package No.01B

Landscape Architecture Urban Planning Parks & Recreation Campus & Institutional Planning Camp Planning & Design

**ARCHITECTS** 141 E. Michigan Avenue, Suite 500 Kalamazoo Michigan 49007 Phone (269) 381-3357 Fax (269) 381-2944





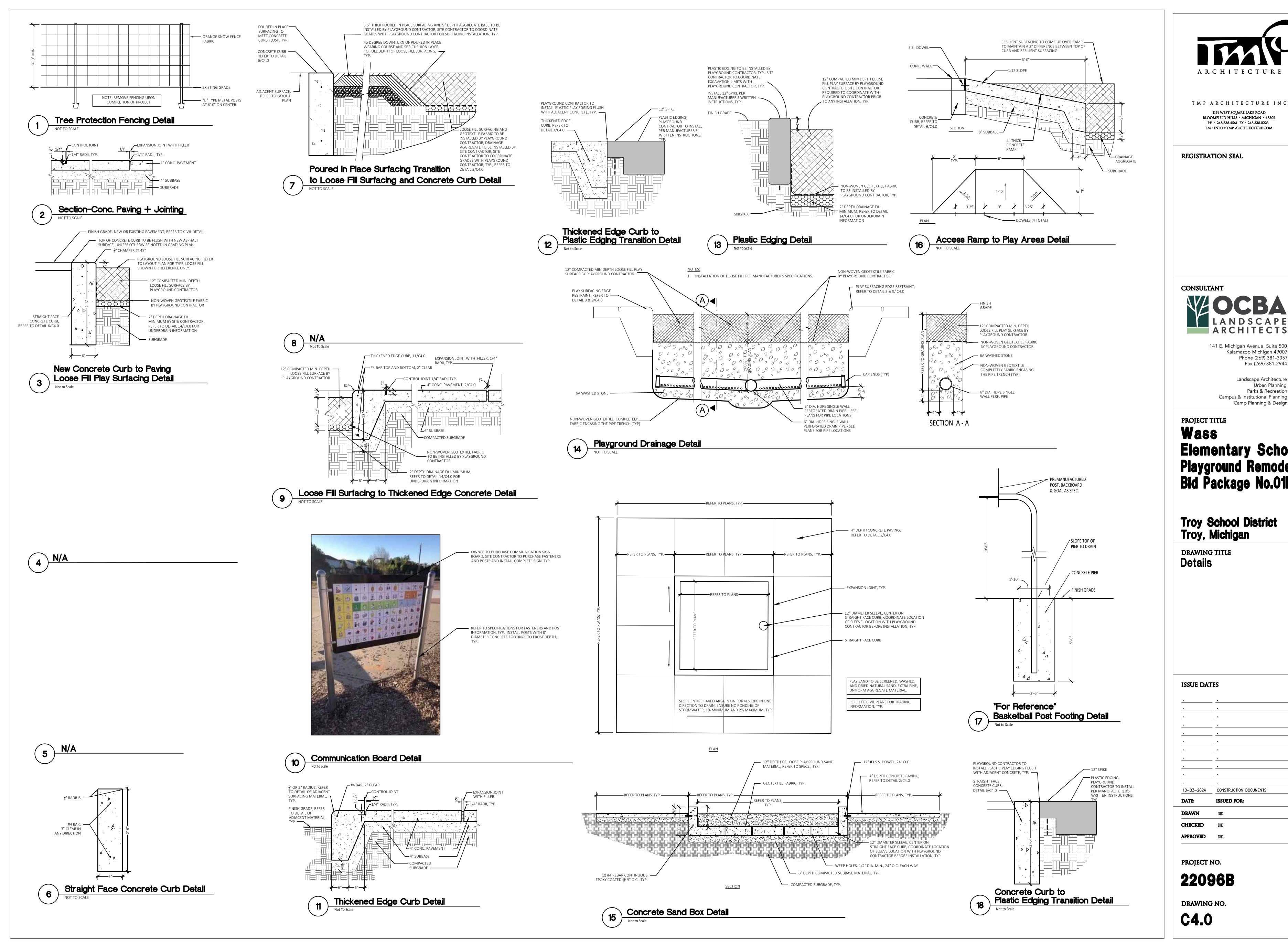






TMP ARCHITECTURE INC 1191 WEST SQUARE LAKE ROAD BLOOMFIELD HILLS • MICHIGAN • 48302 PH • 248.338.4561 FX • 248.338.0223 EM • INFO @ TMP-ARCHITECTURE.COM

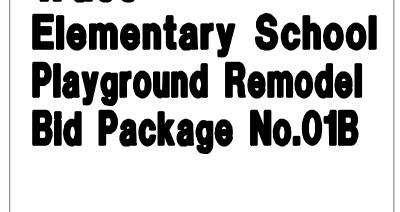
**REGISTRATION SEAL** 





UE DAT	TES
	· · · · · · · · · · · · · · · · · · ·
	· · · · · · · · · · · · · · · · · · ·
	· ·
	· · · · · · · · · · · · · · · · · · ·
	· · · · · · · · · · · · · · · · · · ·
03-2024	CONSTRUCTION DOCUMENTS
Е:	ISSUED FOR:
WN	DID
CKED	DID
ROVED	DID
OJECT	NO.

**Troy School District** Troy, Michigan DRAWING TITLE Details



Camp Planning & Design PROJECT TITLE Wass





141 E. Michigan Avenue, Suite 500

Kalamazoo Michigan 49007

Phone (269) 381-3357

Landscape Architecture

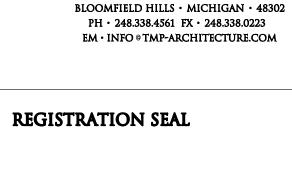
Campus & Institutional Planning

Fax (269) 381-2944

Urban Planning

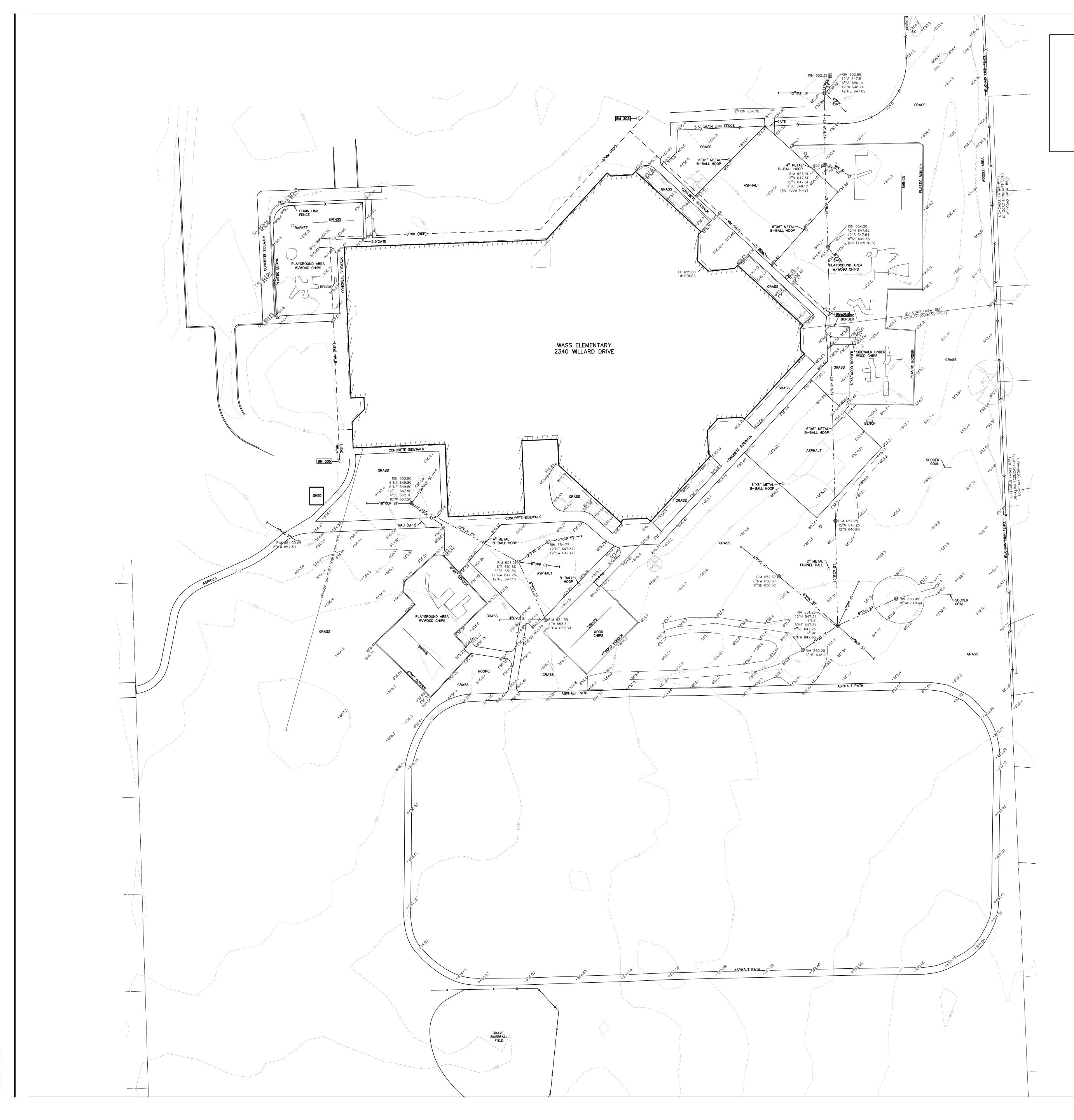
Parks & Recreation

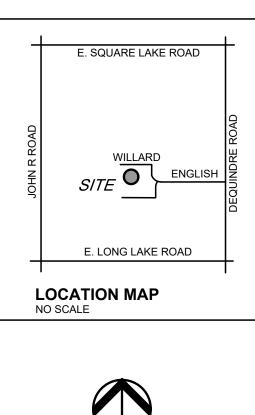


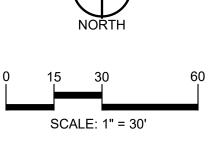


1191 WEST SQUARE LAKE ROAD









LEGEND:				
-OH-ELEC-W-O-	-< EX. OH. ELEC, POLE & GUY WIRE			
-UG-CATV-TV	— EX. U.G. CABLE TV & PEDESTAL			
-∪с-сомм⊠-(Т	EX. U.G. COMMUNICATION LINE, PEDESTAL & MANHOLE			
-UG-ELEC-EEE	← EX. U.G. ELEC,MANHOLE, METER & HANDHOLE			
	— EX. GAS LINE			
© GAS	EX. GAS VALVE & GAS LINE MARKER			
T II	EX. TRANSFORMER & IRRIGATION VALVE			
	- EX. WATER MAIN			
∀ ~ ⊛	EX. HYDRANT, GATE VALVE & POST INDICATOR VALVE			
⊗ <i>1</i> 8	EX. WATER VALVE BOX & SHUTOFF			
·	- EX. SANITARY SEWER			
© (S)	EX. SANITARY CLEANOUT & MANHOLE			
©	EX. COMBINED SEWER MANHOLE			
	- EX. STORM SEWER			
© 9	EX. CLEANOUT & MANHOLE			
	EX. SQUARE, ROUND, & BEEHIVE CATCH BASIN			
O <sup>Y.D.</sup> ®	EX. YARD DRAIN & ROOF DRAIN			
?	EX. UNIDENTIFIED STRUCTURE			
⊠ → ☆	EX. MAILBOX, SIGN & LIGHTPOLE			
X	— EX. FENCE			
<u> </u>	P EX. GUARD RAIL			
×0 <sup>00.7</sup>	EX. SPOT ELEVATION			
670	EX. CONTOUR			
ند بغد بغد	EX. WETLAND			
e X	IRON FOUND / SET			
ø ø	NAIL FOUND / NAIL & CAP SET			
۲	BRASS PLUG SET			
۲	MONUMENT FOUND / SET			
	SECTION CORNER FOUND			
RMC	RECORDED / MEASURED / CALCULATED			
REFERENCE	DRAWINGS:			
CABLE	AT&T MAP A1, DATED 03/7/2023 COMCAST CABLE MAP, EMAIL DATED 03/29/2023 WOW CABLE MAP, EMAIL DATED 03/24/2023			
FIBER OPTIC	FIBER LINK MAP, EMAIL DATED 03/24/2023			
WATER MAIN	GIS MAP, CITY OF TROY EMAIL DATED 03/24/2023			
BENCHMARKS: (GPS DERIVED - NAVD88)				
BM #303 DIMPLE ON A HYDRANT LOCATED APPROX/. 43' NORTH OF THE SCHOOL BUILDING NEAR THE BUS DROP OFF. ELEV 657.36				

DIM #303 DIMPLE ON A HYDRANT LOCATED APPROX. 15' SOUTHWEST FROM THE SOUTHWEST BUILDING CORNER OF THE SCHOOL. ELEV. - 657.48

BM #310 ARROW ON A HYDRANT LOCATED ON THE EAST SIDE OF THE SCHOOL, APPROX. 21' NORTHEAST FROM THE NORTHEAST BUILDING CORNER. ELEV. - 657.81

LEGAL DESCRIPTION:

PARCEL ID 20-12-401-002 T2N, R11E, SEC 12 PART OF S 1/2 OF SEC BEG AT PT DIST E 2521.75 FT & N 00-07-48 E 1226.47 FT FROM SW SEC COR, TH N 00-07-48 E 1305.78 FT, TH N 87-49-28 E 705.18 FT, TH S 00-07-43 E 1332.55 FT, TH W 710.62 FT TO BEG EXC THAT PART PLATTED INTO 'HIGHBURY WOODS' 20.14 A

FLOODPLAIN NOTE: BY GRAPHICAL PLOTTING, SITE IS WITHIN ZONE 'X', AN AREA DETERMINED TO BE OUTSIDE OF THE 0.2% ANNUAL CHANCE FLOODPLAIN, PER FLOOD INSURANCE RATE MAP NUMBER 26125C0534F, DATED SEPTEMBER 29, 2006.



PROJECT NO. 22096B

ISSUE DATES

10-03-2024	CONSTRUCTION DOCUMENTS
09-10-2024	OWNER REVIEW
08-21-2024	INTERNAL COORDINATION
07-24-2024	DESIGN DEVELOPMENT
DATE:	ISSUED FOR:
DRAWN	JG
CHECKED	JW
APPROVED	TD

# Troy School District Troy, Michigan drawing title Topographic Survey

# Playground Remodel Bid Package No.01B

PROJECT TITLE Wass Elementary School 2340 WILLARD DRIVE

GROUP t: 844.813.2949 www.peagroup.com

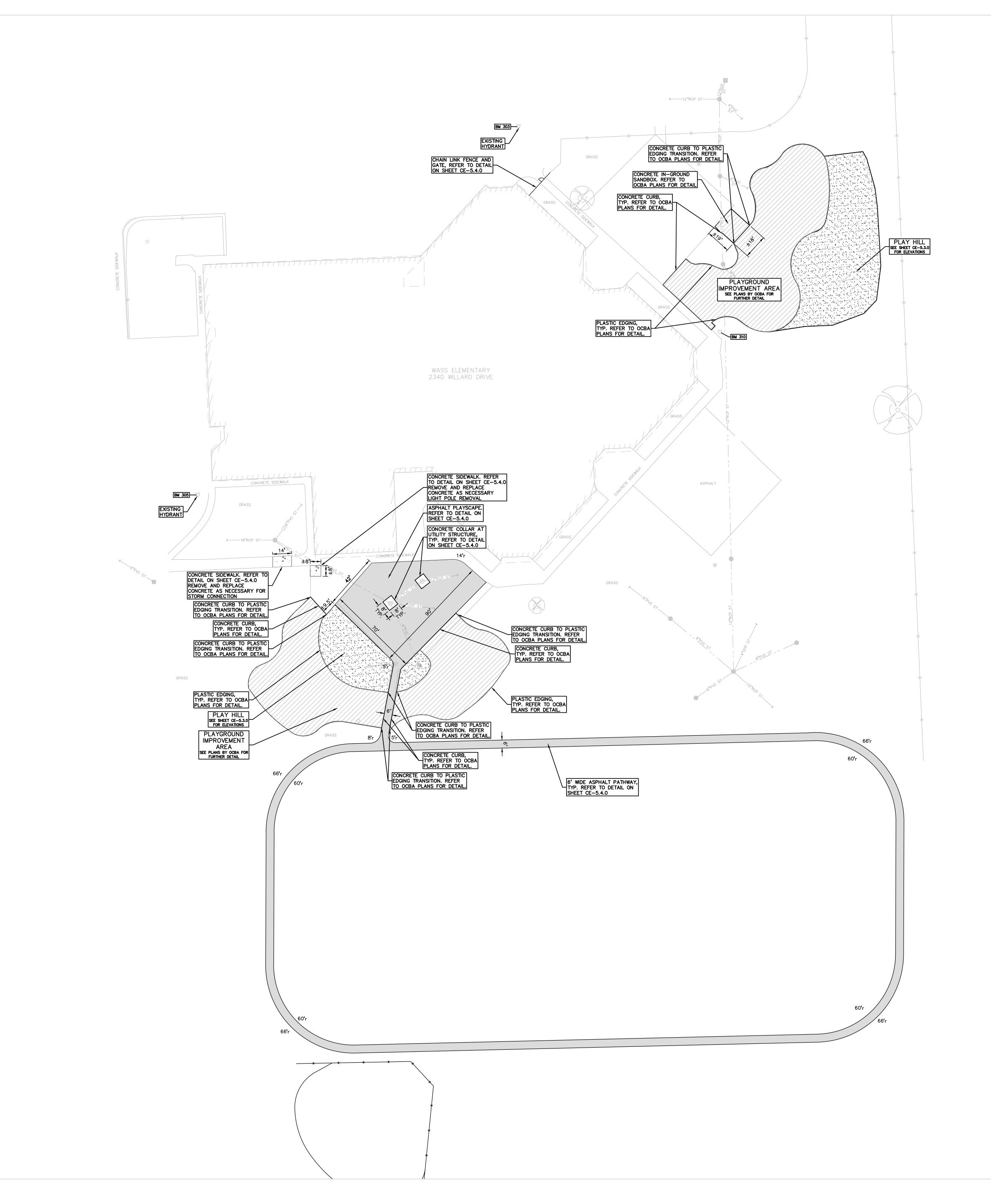
CONSULTANT

 $P \equiv V$ 

**REGISTRATION SEAL** 

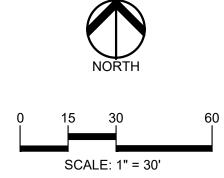
TMP ARCHITECTURE INC 1191 WEST SQUARE LAKE ROAD BLOOMFIELD HILLS • MICHIGAN • 48302 PH • 248.338.4561 FX • 248.338.0223 EM • INFO @ TMP-ARCHITECTURE.COM



awing File: S:\PROJECTS\2023\23-0301 TROY SCHOOLS 2022 BOND\DWG\3\_CONSTRUCTION\PLAYGROUNDS PH 2\WASS\(C-5.2) LAYOUT WASS 23-0301.dwg ct D1 2024 — 9:01cm 

		LEGEND:		
		STD HEAVY R.O.W. DUTY DUTY ONLY	CONCRETE PAVEMENT	
		STD SEAL PLAYSCAPE DUTY COAT	ASPHALT PAVEMENT	
		یاک یاک یاک یاک یاک	WETLAND	
			CONCRETE CURB AND GUTTER	
		<b></b>	REVERSE GUTTER PAN SETBACK LINE	
		* *	SIGN LIGHTPOLE FENCE GUARD RAIL	
ΝΟΤ	<b>TC</b> ,			
1.	CONTRACTO PLANS. ANY BROUGHT TO PEA GROUP	DEVIATIONS TO THE	NTITIES SHOWN ON THE PLAN QUANTITIES SHALL BE THE SCHOOL DISTRICT AND BID PACKAGE, FOR	
2.		CENTER OF MANHOLE/	BACK OF CURB, FACE OF CATCH BASIN UNLESS	
3.		BAR CONTINUOUS BET	Gutter 9" with Epoxy Iween Existing and	
			HEET FOR PAVING DETAILS.	
5.	PRIOR TO C		l underground utilities Ng but not limited to:	
6.	PER DETAIL: IN GOOD CO ALL POSTS	S ON SHEET C-4.0. A ONDITION SHALL BE RE DAMAGED OR OTHERW SHALL BE DISPOSED (	PLACE SIGNS AND POSTS LL SIGNS AND ANY POSTS TURNED TO THE OWNER. ISE NOT IN USEABLE DF AT NO ADDITIONAL COST	
7. FOR THE TWO (2) CATCH BASINS, LOCATED IN THE WORK AREA; BIDDERS ARE TO INCLUDE RECONSTRUCTION OF THESE STRUCTURES (GREATER THAN 12-INCHES IN DEPTH FROM THE RIM ELEVATION OF REPAIR WORK) IN THE BASE BID. THE SUCCESSFUL BIDDER WILL BE PAID FOR REPAIRING EACH STRUCTURE BASED ON THE ACTUAL DEPTH OF REPAIR WITH EITHER STRUCTURAL ADJUSTMENT (WITHIN TOP 12-INCHES OF RIM ELEVATION) OR STRUCTURAL RECONSTRUCTION (GREATER THAN 12-INCHES IN DEPTH) PER THE UNIT PRICES PROVIDED IN THE BID PACKAGE AND THE SCOPE OF WORK DETERMINED AND APPROVED PRIOR TO THE WORK COMMENCING. REPLASTERING OF THE ENTIRE STRUCTURE SHALL BE INCLUDED IN THE UNIT PRICE FOR BOTH STRUCTURAL ADJUSTMENT AND STRUCTURAL RECONSTRUCTION.				
SUB	GRADE UN	DERCUTTING NOTE	S:	
S C TI A R C	UBGRADE SH ONSTRUCTION HE SUMMER DDITIONALLY, EPEATED LO	ALL NOT BE LEFT EXF N OPERATIONS AND SH MONTHS TO ENSURE I , THE SUBGRADE MAY ADING OF CONSTRUCTI	AND UNDERCUTS, THE POSED TO PRECIPITATION AND HOULD BE PERFORMED DURING DRY, WARM, WEATHER. BECOME UNSTABLE UNDER ON TRAFFIC; THEREFORE, BE LIMITED ON THE EXPOSED	
2. SUBGRADE UNDERCUT SHALL BE EVALUATED BY A QUALIFIED ENGINEERING TECHNICIAN TO DETERMINE IF SUBGRADE STABILIZATION IS NECESSARY. UNDERCUT EXCAVATIONS SHALL BE BACKFILLED WITH MDOT 21AA DENSE GRADED AGGREGATE PLACED IN AN ENGINEERED MANNER. LIFT THICKNESS SHALL NOT EXCEED 9 INCHES. THE USE OF TRI-AXIAL GEOGRID MAY BE USED TO REDUCE UNDERCUT DEPTHS, AS APPROVED BY THE DISTRICT AND PER THE UNIT PRICE PROVIDED WITH THE CONTRACTORS BID.				
3. THE QUANTITY FOR 'SUBGRADE UNDERCUT" FOR EACH SITE SHALL BE INCLUDED IN THE BASE BID. THIS ITEM IS CONSIDERED AN ALLOWANCE AND FINAL PAYMENT WILL BE BASED ON THE ACTUAL VOLUME OF COMPACTED IN PLACE STONE PER THE UNIT PRICE PROVIDED IN THE BID PACKAGE.				
A B A C C	T LEAST 95 Y THE MODIF LL ENGINEER OMPACTED A ONTENT. FRO	PERCENT OF THE MAX TED PROCTOR (ASTM I ED FILL MATERIAL SHA T APPROXIMATELY THI	E OPTIMUM MOIUSTURE NOT BE USED AS FILL, NOR	
Q S W C T	UALIFIED EN TABILIZATION ITHIN ANY U ATCH BASIN	GINEERING TECHNICIAN IS NECESSARY. DRAII NDERCUT AREA AND ( TO PREVENT GROUND R SOILS IN UNDERCUT	HALL BE EVALUATED BY A TO DETERMINE IF SUBGRADE N TILE SHALL BE PLACED CONNECTED TO THE CLOSEST WATER FROM POOLING WITHIN S AND CREATING "BATHTUBS"	
6 т			FROLT DRAIN THE (4")" FOR	

5. THE QUANTITY FOR 'SUBGRADE UNDERCUT DRAIN TILE (4")" FOR EACH SITE SHALL BE INCLUDED IN THE BASE BID. THIS ITEM IS CONSIDERED AN ALLOWANCE AND FINAL PAYMENT WILL BE BASED ON THE ACTUAL FOOTAGE OF COMPACTED IN PLACE STONE PER THE UNIT PRICE PROVIDED IN THE BID PACKAGE.





PROJECT NO. **22096B** 

ISSUE DATES

10-03-2024	CONSTRUCTION DOCUMENTS
09-10-2024	OWNER REVIEW
08-21-2024	INTERNAL COORDINATION
07-24-2024	DESIGN DEVELOPMENT
DATE:	ISSUED FOR:
DRAWN	JG
CHECKED	WL
APPROVED	TD

#### Troy School District Troy, Michigan DRAWING TITLE Dimension & Paving Plan

## Playground Remodel Bid Package No.01B

#### Wass Elementary School 2340 WILLARD DRIVE

PROJECT TITLE

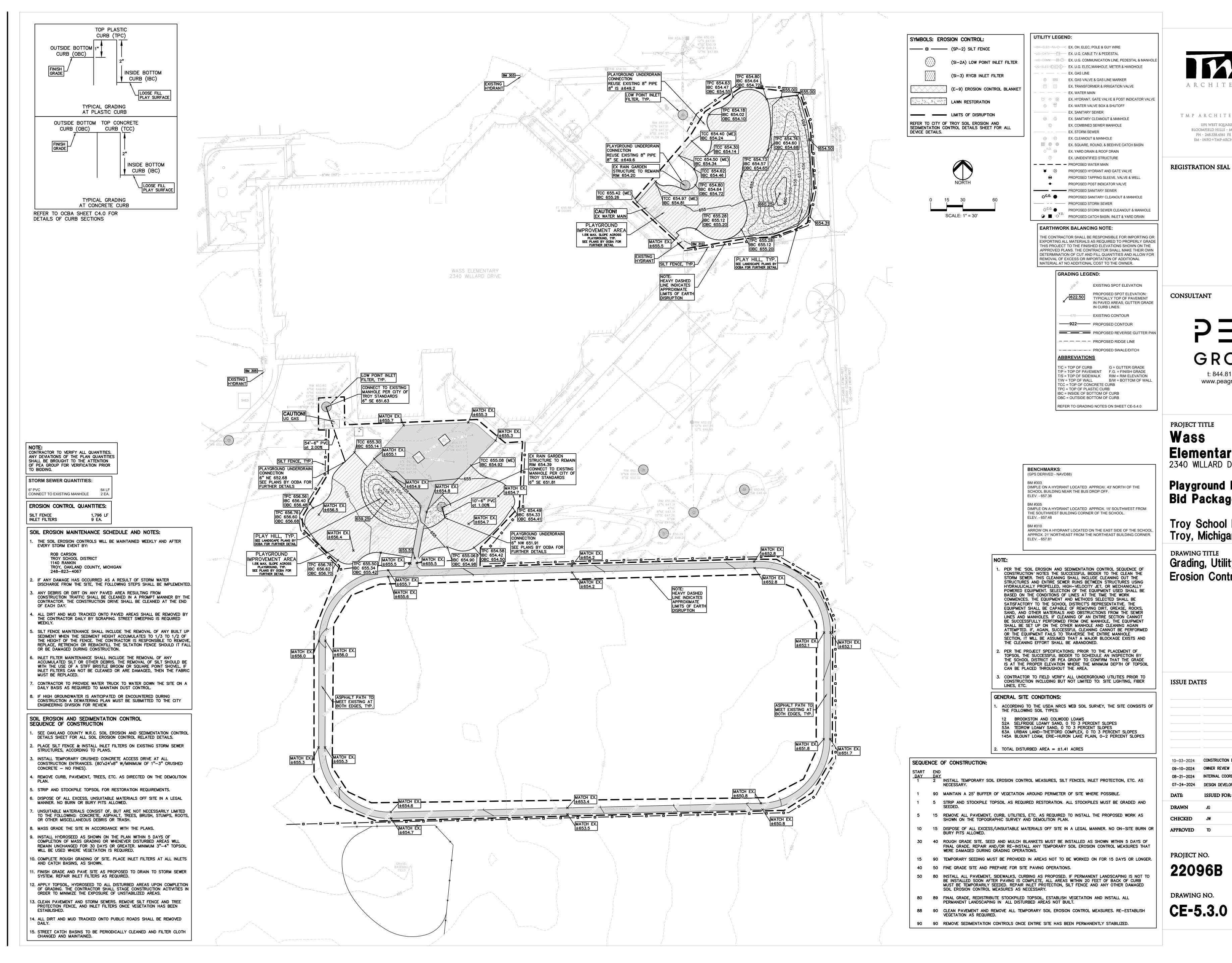


CONSULTANT

1191 WEST SQUARE LAKE ROAD BLOOMFIELD HILLS • MICHIGAN • 48302 PH • 248.338.4561 FX • 248.338.0223 EM • INFO ® TMP-ARCHITECTURE.COM

TMP ARCHITECTURE INC







PROJECT NO. **22096B** 

	-
	-
	-
	-
	-
	-
	-
CONSTRUCTION DOCUMENTS	_
OWNER REVIEW	_
INTERNAL COORDINATION	_
DESIGN DEVELOPMENT	_
ISSUED FOR:	
JG	
JW	-
ТD	-
	OWNER REVIEW INTERNAL COORDINATION DESIGN DEVELOPMENT ISSUED FOR: JG JW

#### Troy, Michigan DRAWING TITLE Grading, Utility & Soil **Erosion Control Plan**

**Troy School District** 

## Playground Remodel Bid Package No.01B

Wass Elementary School 2340 WILLARD DRIVE

t: 844.813.2949 www.peagroup.com

CONSULTANT

GROUP

TMP ARCHITECTURE INC 1191 WEST SQUARE LAKE ROAD BLOOMFIELD HILLS • MICHIGAN • 48302 PH • 248.338.4561 FX • 248.338.0223 EM · INFO @ TMP-ARCHITECTURE.COM



GENERAL NOTES:
THESE NOTES APPLY TO ALL CONSTRUCTION ACTIVITIES ON THIS PROJECT.
1. ALL CONSTRUCTION, WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH CURRENT OSHA, MDOT AND MUNICIPALITY STANDARDS AND REGULATIONS.
2. THE CONTRACTOR SHALL NOTIFY THE CITY OF TROY ENGINEER AND/OR THE AUTHORITY HAVING JURISDICTION 3 BUSINESS DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION.
3. THE CONTRACTOR MUST CONTACT THE ENGINEER SHOULD THEY ENCOUNTER ANY DESIGN ISSUES DURING CONSTRUCTION. IF THE CONTRACTOR MAKES DESIGN MODIFICATIONS WITHOUT THE WRITTEN DIRECTION OF THE DESIGN ENGINEER, THE CONTRACTOR DOES SO AT HIS OWN RISK.
4. ALL NECESSARY PERMITS, TESTING, BONDS AND INSURANCES ETC., SHALL BE PAID FOR BY THE CONTRACTOR. THE OWNER SHALL PAY FOR ALL CITY INSPECTION FEES.
5. THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE 811/ONE CALL UTILITY LOCATING CENTER, THE CITY ENGINEER AND/OR THE AUTHORITY HAVING JURISDICTION 3 BUSINESS DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION. IF NO NOTIFICATION IS GIVEN AND DAMAGE RESULTS, SAID DAMAGE WILL BE REPAIRED AT SOLE EXPENSE OF THE CONTRACTOR. IF EXISTING UTILITY LINES ARE ENCOUNTERED THAT CONFLICT IN LOCATION WITH NEW CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER SO THAT THE CONFLICT MAY BE RESOLVED.
6. CONTRACTOR TO VERIFY THAT THE PLANS AND SPECIFICATIONS ARE THE VERY LATEST PLANS AND SPECIFICATIONS AND FURTHERMORE, VERIFY THAT THESE PLANS AND SPECIFICATIONS HAVE BEEN APPROVED. ALL ITEMS CONSTRUCTED BY THE CONTRACTOR PRIOR TO RECEIVING FINAL APPROVAL, HAVING TO BE ADJUSTED OR RE-DONE, SHALL BE AT THE CONTRACTORS EXPENSE. SHOULD THE CONTRACTOR ENCOUNTER A CONFLICT BETWEEN THESE PLANS AND/OR SPECIFICATIONS, THEY SHALL SEEK CLARIFICATION IN WRITING FROM THE ENGINEER BEFORE COMMENCEMENT OF CONSTRUCTION. FAILURE TO DO SO SHALL BE AT SOLE EXPENSE TO THE CONTRACTOR.
7. ANY WORK WITHIN THE STREET OR HIGHWAY RIGHTS-OF-WAY SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE AGENCIES HAVING JURISDICTION AND SHALL NOT BEGIN UNTIL ALL NECESSARY PERMITS HAVE BEEN ISSUED FOR THE WORK.
8. ALL PROPERTIES OR FACILITIES IN THE SURROUNDING AREAS, PUBLIC OR PRIVATE, DESTROYED OR OTHERWISE DISTURBED DUE TO CONSTRUCTION, SHALL BE REPLACED AND/OR RESTORED TO THE ORIGINAL CONDITION BY THE CONTRACTOR.
9. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY BARRICADING, SIGNAGE, LIGHTS AND TRAFFIC CONTROL DEVICES TO PROTECT THE WORK AND SAFELY MAINTAIN TRAFFIC IN ACCORDANCE WITH LOCAL REQUIREMENTS AND THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (LATEST EDITION). THE DESIGN ENGINEER, OWNER, CITY OF TROY AND STATE SHALL NOT BE HELD LIABLE FOR ANY CLAIMS RESULTING FROM ACCIDENTS OR DAMAGES CAUSED BY THE CONTRACTOR'S FAILURE TO COMPLY WITH TRAFFIC AND PUBLIC SAFETY REGULATIONS DURING THE CONSTRUCTION PERIOD.
10. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ADJUST THE TOP OF ALL EXISTING AND PROPOSED STRUCTURES (MANHOLES, CATCH BASINS, INLETS, GATE WELLS ETC.) WITHIN GRADED AND /OR PAVED AREAS TO FINAL GRADE SHOWN ON THE PLANS. ALL SUCH ADJUSTMENTS SHALL BE INCIDENTAL TO THE JOB AND WILL NOT BE PAID FOR SEPARATELY.
PAVING NOTES:
1. IN AREAS WHERE NEW PAVEMENTS ARE BEING CONSTRUCTED, THE TOPSOIL AND SOIL CONTAINING ORGANIC MATTER SHALL BE REMOVED PRIOR TO PAVEMENT CONSTRUCTION.
2. REFER TO ARCHITECTURAL PLANS FOR DETAILS OF FROST SLAB AT EXTERIOR BUILDING DOORS.
3. CONSTRUCTION TRAFFIC SHOULD BE MINIMIZED ON THE NEW PAVEMENT. IF CONSTRUCTION TRAFFIC IS ANTICIPATED ON THE PAVEMENT STRUCTURE, THE INITIAL LIFT THICKNESS COULD BE INCREASED AND PLACEMENT OF THE FINAL LIFT COULD BE DELAYED UNTIL THE MAJORITY OF THE CONSTRUCTION ACTIVITIES HAVE BEEN COMPLETED. THIS ACTION WILL ALLOW REPAIR OF LOCALIZED FAILURE, IF ANY DOES OCCUR, AS WELL AS REDUCE LOAD DAMAGE ON THE PAVEMENT SYSTEM.
4. ALL EXPANSION JOINTS AND CONCRETE PAVEMENT JOINTS TO BE SEALED.
<ol> <li>CONCRETE PAVEMENT JOINTING - UNLESS SHOWN OTHERWISE IN THE PLANS OR REQUIRED BY THE AUTHORITY HAVING JURISDICTION;</li> <li>WHERE PROPOSED CONCRETE ABUTS A STRUCTURE, PROVIDE A MINIMUM 1/2" EXPANSION JOINT. THE JOINT FILLER BOARD MUST BE AT LEAST</li> </ol>
THE FULL DEPTH OF THE CONCRETE AND HELD DOWN A 1/2" TO ALLOW FOR SEALING. 5.2. WHERE PROPOSED CONCRETE ABUTS EXISTING CONCRETE OR IN
BETWEEN POURS OF PROPOSED CONCRETE (CONSTRUCTION JOINT), PROVIDE 5/8" DOWELS EVERY 30" CENTER TO CENTER HALF WAY ALONG THE THICKNESS OF THE PROPOSED PAVEMENT. ALTERNATE DOWELS SIZES AND SPACING MUST BE APPROVED THE ENGINEER PRIOR TO
COMMENCING WORK AND VIA THE SUBMITTAL PROCESS. 5.3. WHERE PROPOSED CONCRETE ABUTS EXISTING OR PROPOSED SIDEWALK OR CURBING, PROVIDE A MINIMUM 1/2" EXPANSION JOINT. 5.4. CONTROL, LONGITUDINAL AND/OR TRANSVERSE JOINTS SHALL BE
PLACED TO PROVIDE PANELS WITHIN THE PAVEMENT AS SQUARE AS POSSIBLE WITH THE FOLLOWING MAXIMUM SPACING PARAMETERS: 5.4.1. 6-INCH THICK CONCRETE PAVEMENT: 12' X 12' 5.4.2. 8-INCH THICK CONCRETE PAVEMENT: 15' X 15'
<ul> <li>5.5. IRREGULAR-SHAPED PANELS MAY REQUIRE THE USE OF REINFORCING MESH OR FIBER MESH AS DETERMINED BY THE ENGINEER. THE USE OF MESH MUST BE APPROVED THE ENGINEER PRIOR TO COMMENCING WORK AND VIA THE SUBMITTAL PROCESS.</li> <li>5.6. IF A JOINT PLAN IS NOT PROVIDED IN THE PLANS, THE CONTRACTOR</li> </ul>
SHALL SUBMIT ONE TO THE ENGINEER FOR REVIEW PRIOR TO COMMENCING WORK AND VIA THE SUBMITTAL PROCESS.
<ul> <li>6. CONCRETE CURBING JOINTING - UNLESS SHOWN OTHERWISE IN THE PLANS OR REQUIRED BY THE AUTHORITY HAVING JURISDICTION</li> <li>6.1. JOINTS WHEN ADJACENT TO ASPHALT PAVEMENT</li> <li>6.1.1. PLACE CONTRACTION JOINTS AT 10' INTERVALS</li> </ul>
6.1.2. PLACE 1/2" EXPANSION JOINT AT CATCH BASINS, EXISTING AND PROPOSED SIDEWALK OR EXISTING CURBING. 6.1.3. PLACE 1" EXPANSION JOINT:
6.1.3.1. AT SPRING POINTS OF INTERSECTIONS OR ONE OF THE END OF RADIUS LOCATIONS IN A CURVE 6.1.3.2. AT 400' MAXIMUM INTERVALS ON STRAIGHT RUNS
6.1.3.3. AT THE END OF RADIUS AT OPPOSITE ENDS IN A CURBED LANDSCAPE ISLAND 6.2. JOINTS WHEN TIED TO CONCRETE PAVEMENT 6.2.1. PLACE CONTRACTION JOINTS OPPOSITE ALL TRANSVERSE
CONTRACTION JOINTS IN PAVEMENT 6.2.2. PLACE 1/2" EXPANSION JOINT AT CATCH BASINS, EXISTING AND PROPOSED SIDEWALK OR EXISTING CURBING. 6.2.3. PLACE 1"EXPANSION JOINT OPPOSITE ALL TRANSVERSE EXPANSION
JOINTS IN PAVEMENT 6.2.4. CURB AND GUTTER AND CONCRETE SHALL BE TIED TOGETHER SIMILAR TO A LONGITUDINAL LANE TIE JOINT (MDOT B1 JOINT) 6.3. IN BETWEEN POURS OF PROPOSED CONCRETE CURBING (CONSTRUCTION
JOINT): 6.3.1. CARRY THE REBAR CONTINUOUSLY BETWEEN POURS 6.3.2. IF THE REBAR IS NOT LONG ENOUGH TO CARRY CONTINUOUSLY, THEN TIE TWO PIECES OF REBAR PER THE LATEST MDOT SPECIFICATIONS
7. CONCRETE SIDEWALK JOINTING – UNLESS SHOWN OTHERWISE IN THE PLANS OR REQUIRED BY THE AUTHORITY HAVING JURISDICTION 7.1. PLACE TRANSVERSE CONTRACTION JOINTS EQUAL TO THE WIDTH OF THE
WALK WHEN WIDTH IS LESS THAN 8' 7.2. PLACE TRANSVERSE AND LONGITUDINAL CONTRACTION JOINTS EQUAL TO 1/2 THE WIDTH OF THE WALK WHEN WIDTH IS EQUAL TO OR GREATER
THAN 8' 7.3. PLACE 1" EXPANSION JOINT WHERE ABUTTING SIDEWALK RAMP AND/OR RADIUS IN INTERSECTION

7.4. PLACE TRANSVERSE 1/2" EXPANSION JOINT AT MAXIMUM OF 100'

7.5. PLACE 1/2" EXPANSION JOINT WHEN ABUTTING A FIXED STRUCTURE OTHER PAVEMENT (CONCRETE PAVEMENT AND DRIVE APPROACHES),

CURVE WITH A MINIMUM LENGTH OF 1 FOOT BEFORE INTERSECTING ANOTHER JOINT(S) IN ANY DIRECTION. NO JOINTS ARE ALLOWED TO BE

UTILITY STRUCTURES, LIGHT POLE BASES AND COLUMNS. 7.6. WHEN ALONG A CURVE, JOINTS MUST BE PERPENDICULAR TO THE

CUT AT AN ANGLÉ OTHER THAN 90° AT THE CURBLINE

SPACING

- CONSTRUCTION MATERIAL SUBMITTALS UNLESS REQUIRED OTHERWISE IN THE PROJECT SPECIFICATIONS, THE CONTRACTOR SHALL ONLY SUBMIT THE FOLLOWING CONSTRUCTION MA PERFORMED.
  - SUBMITTALS, AS APPLICABLE TO THE PLANS, FOR REVIEW BY THE ENO UNLESS APPROVED IN ADVANCE AND IN WRITING BY THE ENGINEER, A MATERIAL SUBMITTALS PROVIDED TO THE ENGINEER FOR REVIEW IN AD THIS LIST SHALL BE RETURNED TO THE CONTRACTOR WITHOUT A REVIE 1. SOIL EROSION AND SEDIMENTATION CONTROL MEASURES 2. UTILITY TRENCH BACKFILL MATERIAL WITH ALL MATERIAL DATA INCI THE SUBMITTAL BEING DATED WITHIN 60 DAYS OF THE SUBMITTAL APPROVED OTHERWISE BY THE ENGINEER

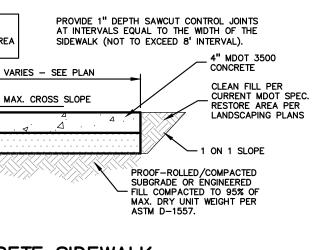
- 5. PAVEMENT AGGREGATE BASE MATERIAL WITH ALL MATERIAL DATA I IN THE SUBMITTAL BEING DATED WITHIN 60 DAYS OF THE SUBMITTA UNLESS APPROVED OTHERWISE BY THE ENGINEER 6. PAVEMENT UNDERDRAIN MATERIAL AND BACKFILL WITH ALL BACKFI MATERIAL DATA INCLUDED IN THE SUBMITTAL BEING DATED WITHIN OF THE SUBMITTAL UNLESS APPROVED OTHERWISE BY THE ENGINE
- 7. PAVEMENT MIX DESIGNS SUBMITTED FOR REVIEW BY THE ENGINEER FOLLOW THE CURRENT MDOT REVIEW CHECKLISTS AS SUMMARIZED AND ALL MATERIAL DATA INCLUDED IN THE SUBMITTAL BEING DAT 60 DAYS OF THE SUBMITTAL UNLESS APPROVED OTHERWISE BY 1 ENGINEER: •8.1. CONCRETE MIX DESIGN REVIEW CHECKLIST (FORM 2000) •8.2. SUPERPAVE MIX DESIGN CHECKLIST (FORM 1862) •8.3. MARSHALL MIX DESIGN CHECKLIST (FORM 1849)
- 8. SITE FENCING AND GATES
- 9. ANY ITEMS SHOWN IN THE PLANS OR DETAIL SHEETS THAT SPECIAL STATE FOR THE CONTRACTOR TO SUBMIT A SHOP DRAWING TO THE ENGINEER FOR REVIEW. THESE ITEMS INCLUDE, BUT ARE NOT LIMIT •• ANY SPECIALITY ITEMS SHOWN IN THE PLANS OR DETAIL SHEE SPECIFICALLY DO NOT STATE FOR THE CONTRACTOR SHALL SU SHOP DRAWING TO THE ENGINEER FOR REVIEW BUT THE CONTR REQUESTS TO BE REVIEWED. THE CONTRACTOR'S REQUEST FOR MUST BE IN WRITING AND APPROVED BY THE ENGINEER PRIOR SUBMITTING THE INFORMATION.

GENERAL GRADING AND EARTHWORK NOTES: THESE NOTES APPLY TO ALL CONSTRUCTION ACTIVITIES ON THIS PROJECT	GENERAL UTILITY NOTES: 1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE	NOTE: CROSS-SLOPE OF SIDEWALK MUST NOT EXCEED 2.0% EXCEPT IN TRANSITION AREA
1. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING TREES AND BRUSH AND	STANDARDS AND SPECIFICATIONS OF THE CITY OF TROY.	MATCHING INTO EXISTING SIDEWALK
REMOVE ALL THAT ARE NECESSARY TO GRADE SITE.         2. ALL GRADES ARE TO TOP OF PAVEMENT UNLESS OTHERWISE NOTED.	2. ALL TRENCHES UNDER OR WITHIN THREE (3) FEET OR THE FORTY-FIVE (45) DEGREE ZONE OF INFLUENCE LINE OF EXISTING AND/OR PROPOSED PAVEMENT, BUILDING PAD OR DRIVE APPROACH SHALL BE BACKFILLED WITH	2% MAX. CR05
3. THE STAGING OF CONSTRUCTION ACTIVITIES SHALL OCCUR ONLY WITHIN THE SITE BOUNDARIES. ANY CONSTRUCTION ACTIVITIES OUTSIDE OF THE WORK	SAND COMPACTED TO AT LEAST NINETY-FIVE (95) PERCENT OF MAXIMUM UNIT WEIGHT (ASTM D-1557). ALL OTHER TRENCHES TO BE COMPACTED TO	
AREA BOUNDARIES SHALL BE AT THE SOLE RESPONSIBILITY AND RISK OF THE CONTRACTOR.	90% OR BETTER. 3. WHERE EXISTING MANHOLES OR SEWER PIPE ARE TO BE TAPPED, DRILL	1 ON 1 SLOPE
4. ALL SOIL EROSION AND SEDIMENTATION CONTROL MEASURES IS SHALL MEET THE REQUIREMENTS OF THE AUTHORIZED PUBLIC AGENCY OF JURISDICTION.	HOLES 4" CENTER TO CENTER, AROUND PERIPHERY OF OPENING TO CREATE A PLANE OF WEAKNESS JOINT BEFORE BREAKING SECTION OUT.	4" MDOT CLASS II SAND BASE COURSE COMPACTED TO 95%
5. ALL EARTHWORK AND GRADING OPERATIONS SHALL BE PERFORMED IN ACCORDANCE WITH THE PLANS AND SPECIFIACTIONS.	4. THE LOCATIONS AND DIMENSIONS SHOWN ON THE PLANS FOR EXISTING UTILITIES ARE IN ACCORDANCE WITH AVAILABLE INFORMATION WITHOUT	MAXIMUM DRY UNIT WEIGHT PER ASTM D-1557
6. REFER TO SOIL EROSION CONTROL PLAN FOR ADDITIONAL SOIL EROSION	UNCOVERING AND MEASURING. THE DESIGN ENGINEER DOES NOT GUARANTEE THE ACCURACY OF THIS INFORMATION OR THAT ALL EXISTING UNDERGROUND FACILITIES ARE SHOWN. CONTRACTOR SHALL FIELD VERIFY	CONCRETE
AND SEDIMENTATION CONTROL MEASURES AND NOTES. 7. ALL LANDSCAPING IS TO BE COMPLETED BY STALLANTIS.	UTILITIES. 5. THE CONTRACTOR SHALL COORDINATE TO ENSURE ALL REQUIRED PIPES,	
8. THE CONTRACTOR SHALL NOTE EXISTING UNDERGROUND UTILITIES WITHIN AND ADJACENT TO THE SITE. BACKFILL FOR EXISTING UTILITY TRENCHES	CONDUITS, CABLES AND SLEEVES ARE PROPERLY PLACED FOR THE INSTALLATION OF GAS, ELECTRIC, PHONE, CABLE, IRRIGATION, ETC. IN SUCH	
SHALL BE EXAMINED CRITICALLY. ANY TRENCHES FOUND TO HAVE SOFT, UNSTABLE OR UNSUITABLE BACKFILL MATERIAL, IN THE OPINION OF THE THIRD PARTY TESTING COMPANY, THAT ARE TO BE WITHIN THE ZONE OF	A MANNER THAT WILL FACILITATE THEIR PROPER INSTALLATION PRIOR TO THE PLACEMENT OF THE PROPOSED PAVEMENT AND LANDSCAPING.	
INFLUENCE OF PROPOSED BUILDINGS OR PAVEMENT SHALL BE COMPLETELY EXCAVATED AND BACKFILLED WITH SUITABLE MATERIAL.	6. PIPE LENGTHS INDICATED ARE FROM CENTER OF STRUCTURE AND TO END OF SECTION UNLESS NOTED OTHERWISE.	2.0" MDOT 5EML ASPHALT WEARING COURSE (17% MAX. R.A.P. CONTENT)
9. ON-SITE FILL CAN BE USED IF THE SPECIFIED COMPACTION REQUIREMENTS CAN BE ACHIEVED. IF ON-SITE SOIL IS USED, IT SHOULD BE CLEAN AND	7. CONTRACTOR SHALL INSPECT ALL EXISTING PUBLIC STORM SEWER, SANITARY SEWER AND WATER MAIN STRUCTURES WITHIN THE LIMITS OF CONSTRUCTION AND WITH THE GOVERNING AGENCY INSPECTOR PRIOR TO	BOND COAT (SS-1H at 0.05 GALS/S.Y.)
FREE OF FROZEN SOIL, ORGANICS, OR OTHER DELETERIOUS MATERIALS. 10. THE FINAL SUBGRADE/EXISTING AGGREGATE BASE SHOULD BE THOROUGHLY	ESTABLISHING FINAL GRADE. NOTIFY THE ENGINEER, OWNER/DEVELOPER, AND GOVERNING AGENCY IF STRUCTURE IS DEEMED TO BE STRUCTURALLY	2.0" MDOT 4EML ASPHALT LEVELING COURSE (27% MAX. R.A.P. CONTENT)
PROOFROLLED USING A FULLY LOADED TANDEM AXLE TRUCK OR FRONT END LOADER UNDER THE OBSERVATION OF A GEOTECHNICAL/PAVEMENT	UNSOUND AND/OR IN NEED OF REPAIR. STORM SEWER NOTES:	
ENGINEER. LOOSE OR YIELDING AREAS THAT CANNOT BE MECHANICALLY STABILIZED SHOULD BE REINFORCED USING GEOGRIDS OR REMOVED AND REPLACED WITH ENGINEERED FILL OR AS DICTATED BY FIELD CONDITIONS.	1. ALL STORM SEWER LEADS SHALL BE CONSTRUCTED AT 1.00% MINIMUM	8" MDOT 21AA CRUSHED LIMESTONE BASE COURSE COMPACTED TO 95% MAX. DRY UNIT WEIGHT PER ASTM D-1557
11. THE REMOVAL OF EXISTING SOIL TO GET TO FINAL SUBGRADE ELEVATION SHALL NOT BE CONSIDERED SUBGRADE UNDERCUTTING. IT IS PART OF THE	SLOPE. 2. ALL STORM SEWER 10" OR LESS AND/OR LEADS SHALL BE SDR 26.	PROOF-ROLLED/COMPACTED
EARTHWORKS TO BALANCE THE SITE AND ESTABLISH THE ELEVATIONS FOR THE PLACEMENT OF THE PROPOSED PAVEMENT ELEVATIONS. THIS SHALL NOT BE PAID FOR SEPARATELY, BUT INCLUDED IN THE EARTHWORKS FOR	3. JOINTS FOR P.V.C. PIPE SHALL BE ELASTOMERIC (RUBBER GASKET) AS SPECIFIED IN A.S.T.M. DESIGNATION D-3212.	SUBGRADE OR ENGINEERED FILL COMPACTED TO 95% OF MAX. DRY UNIT WEIGHT PER ASTM D-1557.
THE PROJECT.		STANDARD DUTY ASF
12. SUBGRADE UNDERCUTTING, INCLUDING BACKFILLING SHALL BE PERFORMED TO REPLACE MATERIALS SUSCEPTIBLE TO FROST HEAVING AND UNSTABLE SOIL CONDITIONS. ANY EXCAVATIONS THAT MAY BE REQUIRED BELOW THE	GENERAL BARRIER FREE NOTES: THE FOLLOWING NOTES PROVIDE AN OUTLINE OF SOME OF THE REQUIREMENTS	(NOT FOR USE IN THE RIGHT-OF-WAY)
TOPSOIL IN FILL AREAS OR BELOW SUBGRADE IN CUT AREAS WILL BE CLASSIFIED AS SUBGRADE UNDERCUTTING.	CONTAINED WITHIN THE "STANDARDS FOR ACCESSIBLE DESIGN - AMERICANS WITH DISABILITIES ACT 2010", AND "ACCESSIBLE AND USEABLE BUILDINGS AND	AGGREGATE BASE NOTE: THIS PAVEMENT SECTION DESIGN ASSUMES THE USE OF MDOT 21AA CRUSHED LIMESTONE BASE MATERIAL THAT MEETS THE REQUIREMENTS OF MDOT STANDARD SPECIFICATION SECTION 902 FOR AGGREGATES. IF CRUSHED CONCRETE AGGREGATE
13. SUBGRADE UNDERCUTTING SHALL BE PERFORMED WHERE NECESSARY AND THE EXCAVATED MATERIAL SHALL BECOME THE PROPERTY OF THE	FACILITIES", ICC/ANSI A117.1-2009. THE CONTRACTOR IS RESPONSIBLE FOR ALL OF THE REQUIREMENTS PRESENTED WITHIN THESE DOCUMENTS, WHICH ARE AVAILABLE IN FULL UPON REQUEST.	BASE IS PROPOSED IN LIEU OF THE SPECIFIED CRUSHED LIMESTONE MATERIAL, PEA GROUP WILL REQUIRE A MINIMUM 25% INCREASE IN BASE THICKNESS. HOWEVER, IF TESTING DOCUMENTATION IS PROVIDED TO PEA GROUP THAT SHOWS THAT THE CRUSHED CONCRETE MATERIAL MEETS ALL REQUIREMENTS OF MDOT SPECIFICATION
CONTRACTOR. ANY SUBGRADE UNDERCUTTING SHALL BE BACKFILLED AS RECOMMENDED IN THE GEOTECHNICAL ENGINEERING REPORT FOR THE PROJECT.	1. AN ACCESSIBLE ROUTE CONSISTS OF WALK SURFACES, CURB RAMPS AND	SECTION 902, THEN THE 25% INCREASE IN THICKNESS MAY BE REEVALUATED.
14. ANY SUB-GRADE WATERING REQUIRED TO ACHIEVE REQUIRED DENSITY SHALL BE CONSIDERED INCIDENTAL TO THE JOB.	RAMPS. AT LEAST ONE ACCESSIBLE ROUTE SHALL BE PROVIDED WITHIN THE SITE FROM ACCESSIBLE PARKING SPACES, ACCESSIBLE PASSENGER LOADING ZONES, PUBLIC STREETS AND SIDEWALKS, AND PUBLIC TRANSPORTATION	HOT-MIX ASPHALT MIXTURES UTILIZING RECYCLED ASPHALT PAVEMENT (RAP) MUST MEET MDOT SPECIAL PROVISION 12SP501(E). THE BINDER GRADE FOR THIS WORK IS PG64-28. IF ASPHALT MIXES CONTAINING RAP ARE TO BE SUPPLIED FOR THIS
	STOPS TO THE BUILDING OR FACILITY ENTRANCE THEY SERVE. 2. THE RUNNING SLOPE OF ALL WALKING SURFACES SHALL NOT EXCEED 5% (1:20) AND THE CROSS-SLOPE SHALL NOT EXCEED 2% (1:48).	PROJECT, THE ASPHALT BINDER MUST BE REVISED PER MDOT 'TIER 1' OR 'TIER 2' REQUIREMENTS (RAP CONTENT UP TO 27% MAXIMUM). TIER 3 MIXES ARE NOT ACCEPTABLE ON THIS PROJECT. AN ASPHALT MIX DESIGN FOR ALL SPECIFIED MIXES SHOULD BE FORWARDED TO PEA GROUP FOR REVIEW PRIOR TO CONSTRUCTION
CONSTRUCTION MATERIAL SUBMITTALS	3. WALKING SURFACES MUST BE LEVEL WITH PERMITTED VERTICAL CHANGES IN LEVEL NOT TO EXCEED 1/4", OR BEVELED CHANGES IN LEVEL NOT TO	SHOULD BE FORWARDED TO PEA GROUP FOR REVIEW PRIOR TO CONSTRUCTION
UNLESS REQUIRED OTHERWISE IN THE PROJECT SPECIFICATIONS, THE CONTRACTOR SHALL ONLY SUBMIT THE FOLLOWING CONSTRUCTION MATERIAL	EXCEED 1/2". REFER TO DETAIL DET-8 THIS SHEET. ANY CHANGE IN LEVEL GREATER THAN 1/2" MUST BE RAMPED. 4. TURNING SPACES ALONG ACCESSIBLE ROUTES MUST BE AT LEAST 5 FEET	
SUBMITTALS, AS APPLICABLE TO THE PLANS, FOR REVIEW BY THE ENGINEER. UNLESS APPROVED IN ADVANCE AND IN WRITING BY THE ENGINEER, ANY MATERIAL SUBMITTALS PROVIDED TO THE ENGINEER FOR REVIEW IN ADDITION TO	WIDE IN ALL DIRECTIONS AND NOT EXCEED 2% SLOPE (1:48) IN ANY DIRECTION. 5. ACCESSIBLE ROUTES WILL BE DESIGNED TO BE A MINIMUM OF 5 FEET WIDE.	
THIS LIST SHALL BE RETURNED TO THE CONTRACTOR WITHOUT A REVIEW BEING PERFORMED.	THE MINIMUM CLEAR WIDTH IS 3 FEET. 6. RAMPS ALONG ACCESSIBLE ROUTES WILL HAVE A RUNNING SLOPE GREATER	
1. SOIL EROSION AND SEDIMENTATION CONTROL MEASURES 2. UTILITY TRENCH BACKFILL MATERIAL WITH ALL MATERIAL DATA INCLUDED IN	THAN 5% (1:20) AND LESS THAN 8.3% (1:12). 7. THE CROSS-SLOPE OF RAMP RUNS SHALL NOT EXCEED 2% (1:48) 8. THE MINIMUM CLEAR WIDTH OF ANY RAMP IS 36 INCHES.	WEDGE W ASPHALT
THE SUBMITTAL BEING DATED WITHIN 60 DAYS OF THE SUBMITTAL UNLESS APPROVED OTHERWISE BY THE ENGINEER	9. THE MAXIMUM RISE FOR ANY RAMP (NOT INCLUDING CURB RAMPS) SHALL NOT EXCEED 30 INCHES. LANDINGS ARE REQUIRED AT THE TOP AND	ÖVERLÄY
3. STORM SEWER STRUCTURES	BOTTOM OF EACH RAMP. LANDINGS SHALL HAVE A CROSS-SLOPE NOT EXCEEDING 2% (1:48), SHALL BE 5 FEET LONG AND AT LEAST AS WIDE AS THE RAMP CLEAR WIDTH. IF THERE IS A CHANGE OF DIRECTION AT A	MEET EXISTING PAVEMENT - 24" MIN.
4. STORM SEWER STRUCTURE FRAME AND COVERS INCLUDING CLEAN OUTS 5. PAVEMENT AGGREGATE BASE MATERIAL WITH ALL MATERIAL DATA INCLUDED	LANDING, THEN THE LANDING MUST BE AT LEAST 5 FEET WIDE AND 5 FEET LONG. 10. CURB RAMPS ALONG ACCESSIBLE ROUTES SHALL NOT RISE MORE THAN 6	VERTICAL FACE
IN THE SUBMITTAL BEING DATED WITHIN 60 DAYS OF THE SUBMITTAL UNLESS APPROVED OTHERWISE BY THE ENGINEER	INCHES, NOR BE STEEPER THAN 8.3% (1:12). APPROACHING SLOPES TO THE RAMP CANNOT EXCEED 5%, WHICH INCLUDES SIDEWALKS, PAVEMENT,	
6. PAVEMENT UNDERDRAIN MATERIAL AND BACKFILL WITH ALL BACKFILL MATERIAL DATA INCLUDED IN THE SUBMITTAL BEING DATED WITHIN 60 DAYS	GUTTERS ETC. 11. IF CURB RAMP SIDES ARE FLARED, THE FLARES SHALL NOT BE STEEPER THAN 10% (1:10).	
OF THE SUBMITTAL UNLESS APPROVED OTHERWISE BY THE ENGINEER 7. PAVEMENT MIX DESIGNS SUBMITTED FOR REVIEW BY THE ENGINEER MUST	12. LANDINGS ARE REQUIRED AT THE TOP OF ALL CURB RAMPS. THE CLEAR LENGTH OF THE LANDING SHALL BE A MINIMUM OF 36" AND WILL BE AS WIDE AS THE CURB RAMP.	
FOLLOW THE CURRENT MDOT REVIEW CHECKLISTS AS SUMMARIZED BELOW AND ALL MATERIAL DATA INCLUDED IN THE SUBMITTAL BEING DATED WITHIN 60 DAYS OF THE SUBMITTAL UNLESS APPROVED OTHERWISE BY THE	13. CURB RAMPS SHALL BE LOCATED OR PROTECTED TO PREVENT THEIR OBSTRUCTION BY PARKED VEHICLES. 14. HANDRAILS ARE NOT REQUIRED ON CURB RAMPS.	<u>BUTT JOINT</u>
ENGINEER: •8.1. CONCRETE MIX DESIGN REVIEW CHECKLIST (FORM 2000) •8.2. SUPERPAVE MIX DESIGN CHECKLIST (FORM 1862)	15. WHERE DETECTABLE WARNING IS REQUIRED AT CURB RAMPS, THE DETECTABLE WARNING SHALL BE 24" MINIMUM IN DEPTH AND SHALL	
•8.3. MARSHALL MIX DESIGN CHECKLIST (FORM 1849)	EXTEND THE FULL WIDTH OF THE RAMP. THE DETECTABLE WARNING SHALL BE LOCATED SO THE EDGE NEAREST THE CURB IS 6 INCHES MINIMUM AND 8 INCHES MAXIMUM FROM THE CURB LINE.	
8. SITE FENCING AND GATES 9. ANY ITEMS SHOWN IN THE PLANS OR DETAIL SHEETS THAT SPECIFICALLY	16. ACCESSIBLE PARKING SPACES ON SITE SHALL BE PROVIDED AS REQUIRED IN SECTION 502 OF THE A.D.A. IF THE SITE HAS MORE THAN ONE PARKING	2.5" O.D. LIN
STATE FOR THE CONTRACTOR TO SUBMIT A SHOP DRAWING TO THE ENGINEER FOR REVIEW. THESE ITEMS INCLUDE, BUT ARE NOT LIMITED TO:	FACILITY, EACH FACILITY IS REQUIRED TO MEET THESE REQUIREMENTS SEPARATELY. THE REQUIRED NUMBER OF SPACES SHALL BE BASED ON THE TOTAL NUMBER OF PARKING SPACES IN EACH PARKING FACILITY ON SITE.	3.0" O.D. CORNER POST
•• ANY SPECIALITY ITEMS SHOWN IN THE PLANS OR DETAIL SHEETS THAT SPECIFICALLY DO NOT STATE FOR THE CONTRACTOR SHALL SUBMIT A SHOP DRAWING TO THE ENGINEER FOR REVIEW BUT THE CONTRACTOR	17. FOR EVERY SIX OR FRACTION OF SIX ACCESSIBLE PARKING SPACES, ONE VAN ACCESSIBLE SPACE SHALL BE PROVIDED. 18. ACCESSIBLE PARKING SPACES SHALL BE LOCATED ON THE SHORTEST	1 5/8" O.D. TOP RAIL
REQUESTS TO BE REVIEWED. THE CONTRACTOR'S REQUEST FOR REVIEW MUST BE IN WRITING AND APPROVED BY THE ENGINEER PRIOR TO	ACCESSIBLE ROUTE FROM PARKING TO A BUILDING ENTRANCE. IF THERE IS MORE THAN ONE ACCESSIBLE ENTRANCE, PARKING SHALL BE DISPERSED	
SUBMITTING THE INFORMATION.	ALONG THE SHORTEST ACCESSIBLE ROUTE TO THE ACCESSIBLE ENTRANCES. 19. BARRIER FREE CAR PARKING SPACES SHALL BE A MINIMUM OF 8 FEET MIDE WITH AN ACCESS AISLE 5 FEET MIDE MINIMUM. VAN ACCESSIBLE PARKING	
	SPACES SHALL BE AT LEAST 11 FEET WIDE WITH A 5' WIDE ACCESS AISLE. VAN ACCESSIBLE SPACES ARE ALSO ACCEPTABLE WITH AN 8 FOOT WIDTH AND 8 FOOT WIDE ACCESS AISLE. THE ACCESS AISLE IN ALL CASES MUST	
	EXTEND THE FULL LENGTH OF THE PARKING SPACE. 20. SURFACE SLOPES WITHIN THE PARKING SPACES AND AISLES SHALL NOT	
	EXCEED 2% (1:48) 21. ACCESSIBLE AREAS INCLUDING PARKING SPACES, AISLES AND PATHWAYS, REQUIRE A MINIMUM VERTICAL CLEARANCE OF 98 INCHES.	
	22. ACCESSIBLE PARKING SPACES ARE REQUIRED TO BE IDENTIFIED BY SIGNS. THE SIGNS SHALL INCLUDE THE INTERNATIONAL SYMBOL OF ACCESSIBILITY. VAN PARKING SPACES ARE REQUIRED TO BE DESIGNATED AS "VAN	
	ACCESSIBLE". REFER TO DETAILS ON THIS SHEET.	

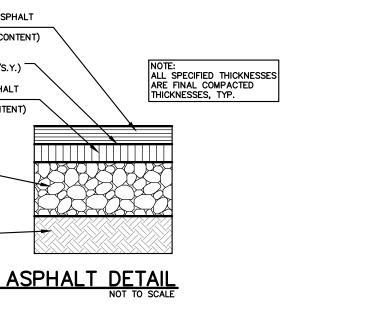
NOTE: FENCE POST TO BE SCHEDULE 40 PIPE WEIGHT. 12"

4 FT HIGH CHAIN LINK FENCE DETAIL

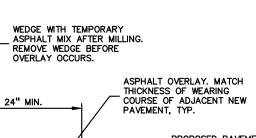
1 5/8" O.D. BOTTOM RAIL -

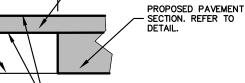


#### RETE SIDEWALK

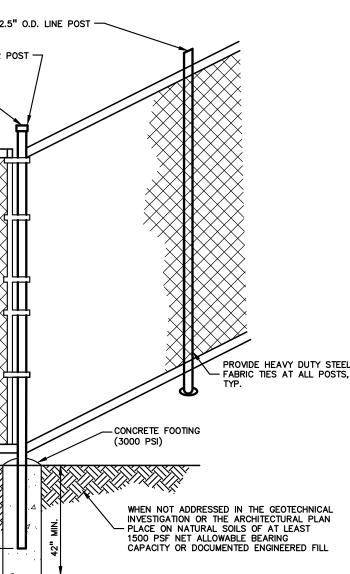


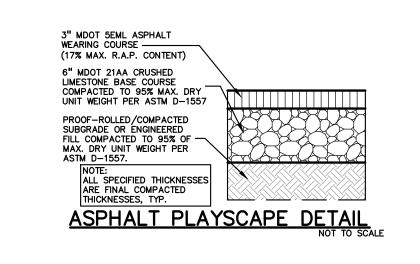
ASPHALT MIX DESIGN CHART						
$\begin{array}{c} \mbox{COMMERCIAL ADT} \\ 0-300 \\ \mbox{0} \\ 0-300 \\ \mbox{301} \\ -1000 \\ \mbox{1001} \\ -3400 \\ \mbox{0} \\ \mbox{COMMERCIAL} \\ \mbox{ADT} \\ \mb$						
4EL	4EML	4EMH	4EMH	220–275		
5EL	5EML	5EMH	SMA OR 5EMH	165–220		
PG 58-28	PG 64-28	PG 64-28	PG 70-28P			

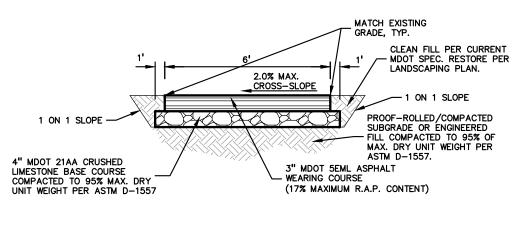




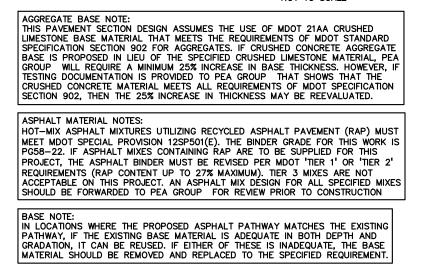
COLD-MILL EXISTING SURFACE. DEPTH TO MATCH NEW PAVEMENT WEARING COURSE THICKNESS. JOINT DETAIL NOT TO SCALE

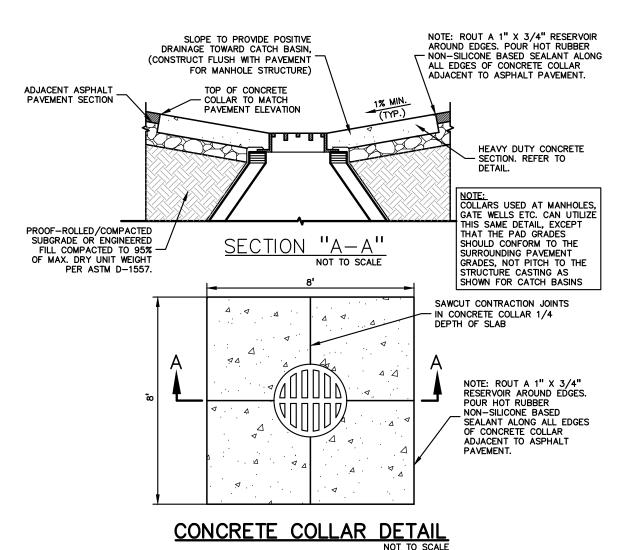


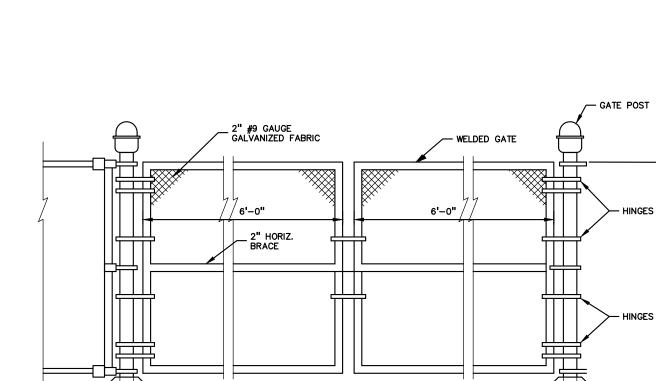




ASPHALT PATHWAY DETAIL







WHEN NOT ADDRESSED IN THE GEOTECHNICAL INVESTIGATION OR THE ARCHITECTURAL PLAN PLACE ON NATURAL SOILS OF AT LEAST 1500 PSF NET ALLOWABLE BEARING CAPACITY OR DOCUMENTED ENGINEERED FILL

3,000 PSI CONCRETE

CHAIN LINK ACCESS GATE

FOOTING (TYP.)

18" DIA. MIN.



PROJECT NO. 22096B

**ISSUE DATES** 

10-03-2024	CONSTRUCTION DOCUMENTS	
09-10-2024	OWNER REVIEW	
08-21-2024	INTERNAL COORDINATION	
07-24-2024	DESIGN DEVELOPMENT	
DATE:	ISSUED FOR:	
DRAWN	JG	
CHECKED	JW	
APPROVED	ТD	

#### Troy, Michigan DRAWING TITLE Notes & Details

**Troy School District** 

## **Playground Remodel** Bid Package No.01B

## Wass Elementary School 2340 WILLARD DRIVE

PROJECT TITLE



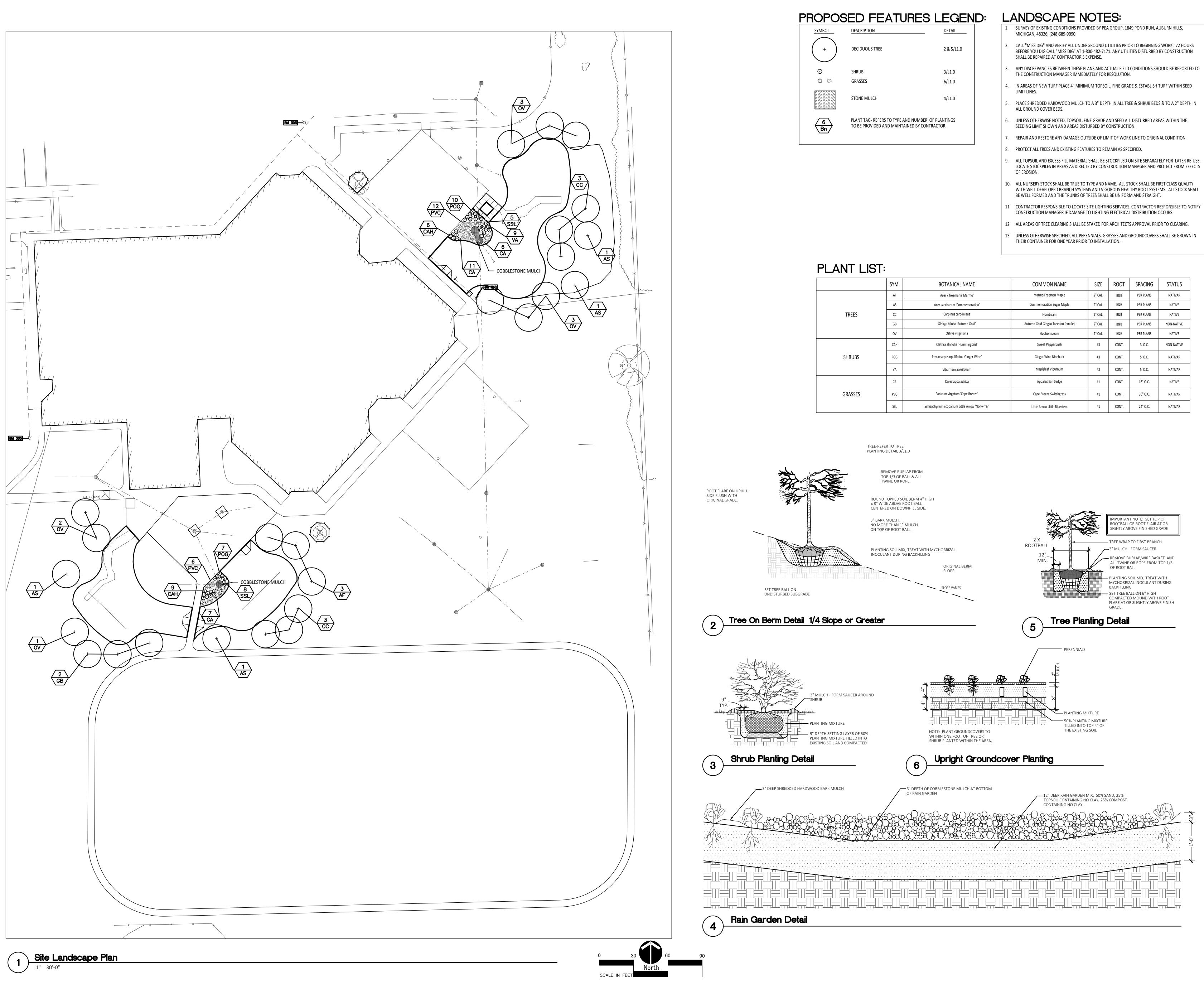
CONSULTANT

 $P \equiv A$ 

**REGISTRATION SEAL** 

TMP ARCHITECTURE INC 1191 WEST SQUARE LAKE ROAD BLOOMFIELD HILLS • MICHIGAN • 48302 PH • 248.338.4561 FX • 248.338.0223 EM • INFO 

TMP-ARCHITECTURE.COM



SYMBOL	DESCRIPTION	DETAIL
+	DECIDUOUS TREE	2 & 5/L1.0
$\odot$	SHRUB	3/L1.0
	GRASSES	6/L1.0
	STONE MULCH	4/L1.0
6 Bn	PLANT TAG- REFERS TO TYPE AND NUMBER C TO BE PROVIDED AND MAINTAINED BY CONT	

	SYM.	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	SPACING	STATUS
	AF	Acer x freemanii 'Marmo'	Marmo Freeman Maple	2" CAL.	B&B	PER PLANS	NATIVAR
	AS	Acer saccharum 'Commemoration'	Commemoration Sugar Maple	2" CAL.	B&B	PER PLANS	NATIVE
TREES	CC	Carpinus caroliniana	Hornbeam	2" CAL.	B&B	PER PLANS	NATIVE
	GB	Ginkgo biloba 'Autumn Gold'	Autumn Gold Gingko Tree (no female)	2" CAL.	B&B	PER PLANS	NON-NATIVE
	OV	Ostrya virginiana	Hophornbeam	2" CAL.	B&B	PER PLANS	NATIVE
	CAH	Clethra alnifolia 'Hummingbird'	Sweet Pepperbush	#3	CONT.	3' O.C.	NON-NATIVE
SHRUBS	POG	Physocarpus opulifolius 'Ginger WIne'	Ginger Wine Ninebark	#3	CONT.	5' O.C.	NATIVAR
	VA	Viburnum acerifolium	Mapleleaf Viburnum	#3	CONT.	5' O.C.	NATIVAR
	CA	Carex appalachica	Appalachian Sedge	#1	CONT.	18" O.C.	NATIVE
GRASSES	PVC	Panicum virgatum 'Cape Breeze'	Cape Breeze Switchgrass	#1	CONT.	36" O.C.	NATIVAR
	SSL	Schizachyrium scoparium Little Arrow 'Nonwrrar'	Little Arrow Little Bluestem	#1	CONT.	24" O.C.	NATIVAR



PROJ 22 DRAWING NO. **L1.0** 



A R	CHITECTURE
BLO Pl	A R C H I T E C T U R E I N C 1191 West Square Lake Road Omfield Hills • Michigan • 48302 H • 248.338.4561 FX • 248.338.0223 I• INFO ® TMP-ARCHITECTURE.COM
REGISTRA	TION SEAL
CONSULT	
Y	OCBA LANDSCAPE ARCHITECTS
	141 E. Michigan Avenue, Suite 500 Kalamazoo Michigan 49007 Phone (269) 381-3357 Fax (269) 381-2944
	Landscape Architecture Urban Planning Parks & Recreation Campus & Institutional Planning Camp Planning & Design
Playg	<b>S</b>
Was Elem Playg Bid P	<b>S</b> <b>entary School</b> <b>round Remodel</b> <b>ackage No.01B</b> School District Michigan
Was Elem Playg Bid P	S entary School round Remodel ackage No.01B School District Michigan TITLE andscape Plan
Was Elem Playg Bid P	S entary School round Remodel ackage No.01B School District Michigan TITLE andscape Plan
Was Elem Playg Bid P	S entary School round Remodel ackage No.01B School District Michigan TITLE andscape Plan
Was Elem Playg Bid P	S entary School round Remodel ackage No.01B School District Michigan TITLE andscape Plan
Was Elem Playg Bid P Side C DRAWING Site La DRAWING Site La	Sentary School round Remodel ackage No.01B School District Michigan 3 TITLE andscape Plan
Was Elem Playg Bid P Troy f Troy, 1 DRAWING Site La	Sentary School round Remodel ackage No.01B
Was Elem Playg Bid P Side P DRAWING Site La DRAWING Site La I I I I I I I I I I I I I I I I I I I	Sentary School round Remodel ackage No.01B School District Michigan 3 TITLE andscape Plan