	ATHE	NS HIG SCHOC 2022 E
CONSULTANTS: CIVIL ENGINEER PEA GROUP CONSULTING ENGINEERS 1849 POND RUN AUBURN HILLS, MICHIGAN 48326 PHONE: (248) 689-9090		LIST OF DRAWINGS GENERAL INFORMATION TS.1 COVER SHEET TG.1 GENERAL INFORMATION
LANDSCAPE ARCHITECT FORESITE DESIGN, INC. LANDSCAPE ARCHITECTS 3269 COOLIDGE HIGHWAY BERKLEY, MICHIGAN 48072 PHONE: (248) 547-7757 FAX: (248) 547-0218		CIVIL C-1.0 TOPOGRAPHIC SURVEY C-1.1 TOPOGRAPHIC SURVEY C-2.0 DEMOLITION PLAN - NORTH C-2.1 DEMOLITION PLAN - NORTH C-3.0 SITE PLAN - NORTH C-3.1 SITE PLAN - NORTH C-4.0 GRADING PLAN - NORTH C-4.1 GRADING PLAN - SOUTH C-5.0 SESC - NORTH
STRUCTURAL ENGINEER WLLIAM A. KIBBBE & ASSOCIATES, NC. CONSULTING ENGINEERS 1475 S. WASHINGTON AVE. SAGINAW, MI 48601 PHONE: (989) 752-5000 FAX: (989) 752-5002 MECHANICAL & ELECTRICAL ENGINEER PETER BASSO ASSOCIATES INC. ELECTRICAL ENGINEERS 5145 LIVERNOIS ROAD, SUITE 100 TROY, MICHIGAN 48098-3276		C-5.1 SESC - SOUTH C-6.0 UTILITY PLAN - NORTH C-6.1 UTILITY PLAN - SOUTH C-7.0 STORM SEWER PROFILES C-9.0 NOTES AND DETAILS 1of1 SOIL EROSION AND SEDIMENTATION CONTROL DETAILS STANDARD STORM SEWER DETAILS 1of2 STANDARD SANITARY SEWER DETAILS 2of2 STANDARD SANITARY SEWER DETAILS STANDARD WATER MAIN DETAILS
 PHONE: (248) 879-5666 FAX: (248) 879-0007 LICENSEE'S STATEMENT: This Document has been prepared under the s Responsible Charge with the firm of <u>TMP ARCH</u> rubber stamp seal and original signature of the any copy of this Document submitted to a gov This is in conformance with the State of Michie of the Board of Architects. The Architect's seal provided hereon does not Documentation or project requiring the service design professional. An original embossed or the Professional Engineer is required and shall Document submitted to a governmental agency firms associated with this document are listed 	supervision of the Architect, as the person in <u>ITECTURE. INC.</u> An original embossed or e Architect is required and shall be affixed to ernmental agency for approval or record. gan's PA 299, Article 20 and the General Rules take responsibility for certain portions of the s of a licensed Professional Engineer or other rubber stamp seal and original signature of be affixed to any copy of this or other y for approval or record. The engineering above as Consultants.	REGISTRATION SEALS



TIC F HIGAN 4 D. 02A	IELDS 18098		
	ELECTRICAL E0.1 ELECTRICAL STANDARDS AND DRAWING INDEX E0.2 ELECTRICAL STANDARD SCHEDULES E0.3 ELECTRICAL SITE PLAN E5.1 ONE LINE DIAGRAM	PROJECT DATA: LOCATION MAP 101-75 E. LONG LAKE ROAD 00 B. MATHENS HS 01 Mathematical School 00 B. MATHENS HS 01 Mathematical School 10 Mathematical School <	BUILDING: CODE: <u>GOVERNING CODES :</u> - 2016 SCHOOL FIRE SAFETY RULES (2012 Life Safety Code, plus amendments) - 2015 MICHIGAN BUILDING CODE - 2015 MICHIGAN REHABILITATION CODE FOR EXISTING BUILDINGS - 2015 MICHIGAN REHABILITATION CODE FOR EXISTING BUILDINGS - 2015 MICHIGAN NECHANICAL CODE - 2015 MICHIGAN NECHANICAL CODE - 2015 MICHIGAN UNIFORM ENERGY CODE (ANSI/ASHRAE/IES Standard 90.1-2013) - 2017 MICHIGAN ELECTRICAL CODE (2017 NEC, plus Part 8 Rules) - 2010 MICHIGAN ELEVATOR RULES (ASME A17.1-2010, ASME A18.1-2011) - MICHIGAN BARRIER FREE CODE (Michigan Building Code 2015 and ICC A117.1-2009) - 2013 MICHIGAN BOILER CODE RULES (ASME Boiler and Pressure Vessel Code, 2019 edition) (National Board Inspection Code [NBIC], 2019 edition)
		COPYRIGHT (C) 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.	II-09-2023 CONSTRUCTION DOCUMENTS DATE ISSUED FOR: PROJECT TITLE Athens High School Athletic Fields PROJECT NO. 22103D DRAWING NO. TS.1

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 HDWE 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 DETA HTG 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. ANG./Lor ANOD. APT. DOOR OPERATOR HNYCB HONEYCOMB ANODIZED ΗK HOOK DOUBLE ACTING HORIZONTAL APARTMEN[®] 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.D 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 INSIDE FACE ELASTOMERIC SHEET ROOFING E.S.R. 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 BR. EQUIV. EQUIVALENT OULEVA 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 BUILDING EXHAUST REGISTER E.R. EXIST KIT. BUILDING LIN EXISTING EXP. EXP.B. BUILT-UP ROOFING EXPANSION K.D. K.O.P. KNOCK DOWN B.N. BLKD BULLNOSE EXPANSION BOLT KNOCK-OUT PANEL BULKHEAD EXPANSION JOINT E.J. EXPL.P EXP'D EXT'N BULLETIN EXPLOSION PROOF BURGLAR ALARM EXPOSED BUZZER EXTENSION EXTERIOR LABEL LABORATORY E.I.F.S. EXTERIOR INSULATION FINISH LBL. SYSTEM E.H. EXTRA HEAVY LADDER EXTR. E.S.P. 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 CASING F/F FACE-TO-FACE L.H.R.B. CAST IRON F. FIN. FACTORY FINISH LGTH CAST IRON FRAME F.C.U. FAN COIL UNIT LEVEL C.I.P. CSTG CAT. NO LIBRAR CAST IRON PIPE/CAST-IN-PLACE F.S. FAR SIDE FASTENER FEEDER CATALOG NUMBER LIGHTPROOF FEET/FOOT LIGHTING LIGHTING PANEL 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 HEIGH CEM. CEM. PLA FIGURE LTWT. CONC. LIGHTWEIGHT CONCRETE FIG. EMENT PLASTER FINISH/FINISHED **_IMESTON** FIN. FLR/F.F. FINISH FLOOR ENTER LINTEL F.T.R. FINNED TUBE RADIATION LIN. DIFF. LINEAR DIFFUSER CENTER-TO-CENTER FIRE ALARM LINEAR FEET/FOOT F.A. F.A.C.P. F. BRK LIQUID LIQUID PROPANE GAS FIRE ALARM CONTROL PANEL CERAMIC TIL FIRE BRICK C.BD. CHAM. CHAM. CHG. CHAN. CHKD. CHWR CHWS CHD CIRCUM 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 F.H.C. FIRE HOSE CABINET LOCATION F.H. FIRE HYDRANT LOCKER LONG LEG HORIZONTAL LONG LEG VERTICAL CHILLED WATER RETURN FIRE LINE FIRE RETARDANT/FIRE RATED F.L. F.R. CHILLED WATER SUPPLY L.L.H. F.R.T.WD FIRE RETARDANT TREATED WOOD L.L.V. LOUVER LOUVER OPENING RCUMFERENCE F.V.C. FIRE VALVE CABINET CIRCLE/CIRCULAR FIREPLACE FPRFG. FIXT. FLASH. FHMS FHWS CIRC C.BR LOW POINT FIREPROOFING CIRCUIT BREAKER FIXTURE L.PR. LOW PRESSURE FLASHING FLAT HEAD MACHINE SCREW LUMBER CIVIL DRAWING-NC LBS. or # FLAT HEAD WOOD SCREW CLASSROOM C.O. CLR CLR GL CLR W.G CLEAN OUT FLEXIBLE CONNECTION F.C. FLR FLOOR F.C.O. F.D. FLOOR CLEAN OUT FLOOR DRAIN FLOOR FINISH CLEAR GLASS CLEAR WIRE GLASS FLR. FIN. FLUOR. FLDG FTG LOSET FLUORESCENT FOLDING FOOTING COAT CLOSE MACH. MACHINE MACHINE BOLT MACHINE ROOM OEFFICIEN FORMBOARD COLD WATER FM. BD MACH. RM FOUNDATION M.A.U. M.D.P. MAKE-UP AIR UNIT OLUMN CO. COMPT. COMPO. COMPANY FRAME MAIN DISTRIBUTION PANEL FRAME AND COVER M.S.B. MAINT. OMPARTMEN FR/COV MAIN SWITCH BOARD FRMG FRZR MAINTENANCE OMPOSITION FRAMING OMPRESSED A FREEZER FULL SIZE MFR MANUFACTURER OMPRESSOR F.S. CONCRETE FURN. FURNISH/FURNISHED MARBLE FURR. FUT. CONCRETE MASONRY UNIT FURRING/FURRED MARK CONDENSING WATER RETURN FUTURE MASONRY MASONRY OPENING ONDENSING WATER SUPPLY м.о. MATERIAL MAXIMUM ONFERENCE MAX. MECHANICAL CONSTRUCTION MECHANICAL DRAWING-NO GAUGE GALLON GALLONS PER HOUR GALLONS PER MINUTE MEDICINE CABINET ONTROL JOIN CONTINUE/CONTINUOUS MEDIUM gal. GPH GPM MEMB. MET. ONTRACTOR MEMBRANE CONTROL PANEL METAL CONVECTOR CONVEYOR GALV. GALV. I. M.D.S. M.E.S. METAL DIVIDER STRIP GALVANIZED GALVANIZED IRON METAL EDGE STRIP CORNER METAL LATH GASKET GATE VALVE AND BOX ORNER GUARD GSKT G.V.& B. M.L.& PLAS. METAL LATH AND PLASTER ORRIDOR/CORRUGATED METAL THRESHOLD OPPER GENERAL GLASS MET. W.P. GEN'L. METALLIC WATERPROOFING MEZZANINE CTSK CRS. COUNTERSINK GLZ G.H.T. GLAZING GLAZED HOLLOW TILE MDOT MICHIGAN DEPARTMENT OURSE TRANSPORTATION COV. COV. PI C.C.T. CU.FT. COVER GRAB BAR MWK MILLWORK GRADE/GRILLE GRADE BEAM COVER PLATE MINIMUM CUBICAL CURTAIN TRACK MIRROR CUBIC FEET/ CUBIC FO CUBIC FEET PER MINUT MIRROR AND SHELF GRATING GRID LINE 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 RF.H. 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. MET. SH.& R. SHWR S.C.R. SPR. SPKR

SPEC.

spryd Spklr

STAG. ST.STL

STD

STM

STIFF.

STR.

STL. PL.

STO. FR. STOR.

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

THOUSAND (1000)

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

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.

P.I.V.

PCF

P.T.R. PREFAB.

P.T.WD

PFN.

P.G.

P.R.V

PRIM.

PROJ. PROP.

QTY Q.T.

QTR. RD

RBT RAD. or R.

R.W.C.

RECV.

REFR

R.R.

PORC. PORC. ENAN

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 SHEELI 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

CULVERT

CYCLES

CUP DISPENSER

C.D.

CYC.

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 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 DOOR 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 TRUE NORTH OR PLAN NUMBER FOR NEW CONSTRUCTION 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 FLOUR ABUVE (OF OR BELOW (DOWN) 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)

ISSUE DAT	ſFS
•	_ •
,	_ ·
	·
•	· · · · · · · · · · · · · · · · · · ·
•	<u>.</u>
•	· · · · · · · · · · · · · · · · · · ·
•	<u>·</u>
•	_ •
•	_ •
•	- ·
11-09-2023	CONSTRUCTION DOCUMENTS
DATE:	ISSUED FOR:
DRAWN	JRB
CHECKED	
APPROVED	JRR
PROJECT .	NO.

Troy School District Troy, Michigan

General Information

Athens High School Athletics Bid Package No. 02A

PROJECT TITLE

DRAWING TITLE

CONSULTANT

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

22103D

•	
•	
•	_ <u>•</u>
•	· · · · · · · · · · · · · · · · · · ·
•	•
•	
11-09-2023	CONSTRUCTION DOCUMENTS
DATE:	ISSUED FOR:
DRAWN	JW
CHECKED	TD

PROJECT TITLE Athens High School Athletic Fields Bid Package No. 02A

CONSULTANT

ARCHITECTURE

PROJECT NO. **22103D**

ISSUE DATES

DINSTRUCTION DOCUMENTS
INSTRUCTION DOCUMENTS
NASTRUCTION DOCUMENTS
SUED FOR:
N
D

PROJECT TITLE Athens High School Athletic Fields Bid Package No. 02A

CONSULTANT

REGISTRATION SEAL

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

SPECIFICALLY NOTED IN THE PLANS OR NOT, SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR AND DISPOSED OF OFF-SITE IN A LEGAL MANNER. NO ON-SITE BURY OR BURN PITS SHALL BE ALLOWED. ALL DEMOLITION WORK SHALL CONFORM TO ALL LOCAL CODES AND ORDINANCES. STAGING/PHASING OF DEMOLITION AND CONSTRUCTION IS TO BE COORDINATED WITH THE OWNER AND THE CONTRACTOR PRIOR TO CONSTRUCTION. SPECIFIC DEMOLITION ITEMS HAVE BEEN INDICATED ON THE PLANS AS A GUIDE TO THE GENERAL SCOPE OF THE WORK. IT IS THE INTENT THAT THESE ITEMS SHALL BE COMPLETELY REMOVED BY THE CONTRACTOR ABOVE AND BELOW GROUND, UNLESS SPECIFICALLY NOTED OTHERWISE, AND THAT DEMOLITION WILL INCLUDE BUT WILL NOT NECESSARILY BE LIMITED TO THESE ITEMS. CONTRACTOR SHALL VISIT SITE TO VERIFY EXISTING CONDITIONS AND EXTENTS OF THE DEMOLITION THAT WILL BE REQUIRED PRIOR TO SUBMITTING A BID. REMOVE ALL STRUCTURES DESIGNATED FOR REMOVAL ACCORDING TO THE DEMOLITION PLAN. THIS INCLUDES FOUNDATIONS, FOOTINGS, FOUNDATION WALLS, FLOOR SLABS, UNDERGROUND UTILITIES, CONCRETE, ASPHALT, TREES, ETC. REFER TO SHEET C - X.X FOR TREE PROTECTION DETAILS. THE CONTRACTOR SHALL, AS A MINIMUM, PROVIDE TREE PROTECTION FENCING AROUND EXISTING TREES TO BE SAVED THAT ARE WITHIN 15 FEET OF CONSTRUCTION ACTIVITIES AND AS INDICATED IN THE PLANS OR PER LOCAL AGENCY REQUIREMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEAN UP, NOISE, DUST CONTROL, STREET SWEEPING AND HOURS OF OPERATION IN ACCORDANCE WITH THE LOCAL CODES. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY BARRICADES, SIGNAGE, MARKINGS, LIGHTS AND OTHER TRAFFIC CONTROL DEVICES TO PROTECT THE WORK ZONE AND SAFELY MAINTAIN TRAFFIC PER AGENCY REQUIREMENTS AND IN ACCORDANCE WITH THE LATEST EDITION OF THE STATE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. 10. THE CONTRACTOR SHALL CONTACT THE APPROPRIATE UTILITY COMPANIES TO CONFIRM THAT UTILITY LEADS HAVE BEEN TAKEN OUT OF SERVICE PRIOR TO DEMOLITION. 1. ALL BUILDING GAS LEADS, METERS AND ASSOCIATED EQUIPMENT SHALL BE REMOVED AS SHOWN ON THE PLANS. COORDINATE ALL ASSOCIATED WORK WITH THE APPROPRIATE UTILITY COMPANY. 12. REMOVE ALL OVERHEAD AND UNDERGROUND ELECTRICAL LINES WITHIN THE AREA OF CONSTRUCTION AS SHOWN ON THE PLANS. COORDINATE SHUTDOWNS AND REMOVALS WITH ELECTRICAL SERVICE PROVIDER OR THE APPROPRIATE UTILITY COMPANY. (NOTE: PHONE AND CABLE T.V. SERVICES MAY ALSO BE LOCATED ON OVERHEAD LINES.) 3. THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL AND REPLACEMENT OF SIGNS AND SUPPORTS WITHIN THE WORK AREA, AS NECESSARY TO FACILITATE CONSTRUCTION. SIGNS SHALL BE PROTECTED OR STOCKPILED FOR REUSE AS SPECIFIED IN THE PLANS OR AS REQUIRED BY THE AGENCY OF JURISDICTION. THE CONTRACTOR SHALL REPLACE ANY DAMAGED SIGNS AND SUPPORTS AT NO ADDITIONAL COST TO THE OWNER. 14. 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. DEMOLITION LEGEND:

GENERAL DEMOLITION NOTES:

THESE NOTES APPLY TO ALL CONSTRUCTION ACTIVITIES ON THIS PROJECT:

ALL MATERIAL TO BE REMOVED, WHETHER

TEM TO BE PROTECTED	(\mathbf{S})
TEM TO BE REMOVED	\boxtimes
CURB/FENCE REMOVAL	·
CONCRETE PAVEMENT AND SIDEWALK REMOVAL	
AREA OR ITEMS TO BE REMOVED	
UTILITY REMOVAL	\times
ABANDON UTILITY	••••••
ASPHALT REMOVAL	·····
TREE REMOVAL	\times
SAWCUT LINE	

PROJECT NO. **22103D**

ISSUE DATES

. .

-	
•	•
•	_ •
•	•
•	
•	
•	
11-09-2023	CONSTRUCTION DOCUMENTS
DATE:	ISSUED FOR:
DRAWN	JW
CHECKED	TD
CHECKED	TD
	TD

Athens High School Athletic Fields Bid Package No. 02A

CONSULTANT

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

DEMOLITION LEGEND:

ITEM TO BE PROTECTED ITEM TO BE REMOVED CURB/FENCE REMOVAL CONCRETE PAVEMENT AND SIDEWALK REMOVAL

ABANDON UTILITY ASPHALT REMOVAL TREE REMOVAL

AREA OR ITEMS TO BE REMOVED

UTILITY REMOVAL

SAWCUT LINE

PROJECT NO. **22103D**

ISSUE DATES

•	•
•	·
•	•
•	•
•	
•	<u>.</u>
•	
11-09-2023	CONSTRUCTION DOCUMENTS
DATE:	ISSUED FOR:
DRAWN	JW
CHECKED	ТD

PROJECT TITLE Athens High School Athletic Fields Bid Package No. 02A

CONSULTANT

REGISTRATION SEAL

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

LEGEND:
CONCRETE PAVEMENT STD HEAVY R.O.W. DUTY DUTY ONLY
STD HEAVY DEEP DUTY DUTY STRENGTH
GRAVEL
یت یک کی WETLAND
CONCRETE CURB AND GUTTER
REVERSE GUTTER PAN
→ SIGN ★ LIGHTPOLE → FENCE ● ● ● ● ● ● GUARD RAIL

ALL DIMENSIONS SHOWN ARE TO BACK OF CURB, FACE OF SIDEWALK, OUTSIDE FACE

OF BUILDING, PROPERTY LINE, CENTER OF MANHOLE/CATCH BASIN OR CENTERLINE OF

REFER TO NOTES & DETAILS SHEET FOR ON-SITE PAVING DETAILS.

REFER TO NOTES & DETAILS SHEET FOR ON-SITE SIDEWALK RAMP DETAILS

PIPE UNLESS OTHERWISE NOTED.

SCALE: 1" = 20'

22103D

ISSUE DATES

• • • •

•	•
•	
•	·
•	•
•	•
•	·
11-09-2023	CONSTRUCTION DOCUMENTS
DATE:	ISSUED FOR:
DRAWN	JW
CHECKED	τ
APPROVED	ТD
PROJECT I	NO.

PROJECT TITLE **Athens High School Athletic Fields** Bid Package No. 02A

CONSULTANT

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

GENERAL NOTES:

THESE NOTES APPLY TO ALL CONSTRUCTION ACTIVITIES ON THIS PROJECT.

- ALL DIMENSIONS SHOWN ARE TO BACK OF CURB, FACE OF SIDEWALK, OUTSIDE FACE OF BUILDING, PROPERTY LINE, CENTER OF MANHOLE/CATCH BASIN OR CENTERLINE OF
- PIPE UNLESS OTHERWISE NOTED. REFER TO NOTES & DETAILS SHEET FOR ON-SITE PAVING DETAILS.
- REFER TO NOTES & DETAILS SHEET FOR ON-SITE SIDEWALK RAMP DETAILS

A CDU

22103D

ISSUE DATES

•	•
•	
•	
•	
•	
•	
•	
11-09-2023	CONSTRUCTION DOCUMENTS
DATE:	ISSUED FOR:
DRAWN	JW
CHECKED	TD
APPROVED	ТD
PROJECT	NO.

CONSULTANT

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

GRADING LEGEND:			
	exis	STING SPOT ELEVATION	
	622.50 PRC TYP IN P IN C	PPOSED SPOT ELEVATION: ICALLY TOP OF PAVEMENT AVED AREAS, GUTTER GRADE URB LINES.	
	670 EXIS	STING CONTOUR	
	PROPOSED REVERSE GUTTER PAN		
	PRC	PROPOSED SWALE/DITCH	
ABBREVIATIONS			
	T/C = TOP OF CURBG = GUTTER GRADET/P = TOP OF PAVEMENTF.G. = FINISH GRADET/S = TOP OF SIDEWALKRIM = RIM ELEVATIONT/W = TOP OF WALLB/W = BOTTOM OF WALL		
	REFER TO GRADING NO	TES ON SHEET C-X.X.	
RETAINING WALL NOTE:			
TOP OF WALL (T/W) AND BOTTOM OF WALL (B/W) GRADES ARE THE FINISH GRADE AT THE TOP AND BOTTOM OF THE RETAINING WALL, NOT ACTUAL TOP AND BOTTOM OF THE WALL STRUCTURE.			
EARTHWORK BALANCING NOTE:			
THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPORTING OR EXPORTING ALL MATERIALS AS REQUIRED TO PROPERLY GRADE THIS PROJECT TO THE FINISHED ELEVATIONS SHOWN ON THE APPROVED PLANS. THE CONTRACTOR SHALL MAKE THEIR OWN DETERMINATION OF CUT AND FILL QUANTITIES AND ALLOW FOR REMOVAL OF EXCESS OR IMPORTATION OF ADDITIONAL MATERIAL AT NO ADDITIONAL COST TO THE OWNER.			
BENCHMARKS (GPS DERIVED – NAVD88)			
BM#300 ARROW ON HYDRANT NORTHEAST OF THE N ELEV. — 658.04	IN FRONT OF SCHOOL E NORTHEAST CORNER OF	BUILDING, ±30' EAST BUILDING	
$\frac{BM\#301}{ARROW ON HYDRANT IN THE NORTHWEST CORNER OF THE NORTHWEST PARKING LOT \pm 5 FEET SOUTH OF THE 8 FOOT CHAIN LINK FENCE, \pm 40 FEET EAST NORTHEAST OF THE BUILDING CORNER ELEV 657.14$			

 $\frac{BM\#302}{ARROW ON DIMPLE ON A HYDRANT LOCATED APPROX. 109'± SOUTH OF THE SCHOOL AUDITORIUM, ON THE NORTH SIDE OF ENTRANCE DRIVE TO THE STUDENT PARKING LOT, APPROX. 680'± WEST OF THE CENTERLINE OF JOHN R ROAD. ELEV. - 655.46$

BM#303 ARROW ON DIMPLE ON A HYDRANT LOCATED SOUTHEAST OF THE FOOTBALL FIELD/TRACK, APPROX. 36.5¹± WEST OF THE BUILDING, NORTH OF THE AUDITORIUM ENTRANCE. ELEV. – 656.70

PROJECT NO. 22103D

ISSUE DATES

•

•	•	
•	•	
•	•	
•	•	
•	•	
11-09-2023	CONSTRUCTION DOCUMENTS	
DATE:	ISSUED FOR:	
DRAWN	JW	
CHECKED	TD	

PROJECT TITLE **Athens High School Athletic Fields** Bid Package No. 02A

CONSULTANT

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

22103D

PROJECT NO.

ISSUE DATES

. .

•	
•	
•	
•	·
•	· · · · · · · · · · · · · · · · · · ·
11-09-2023	CONSTRUCTION DOCUMENTS
DATE:	ISSUED FOR:
DRAWN	JW
DRAWN CHECKED	JW TD
DRAWN CHECKED APPROVED	JW TD TD
DRAWN CHECKED APPROVED	JW TD TD

PROJECT TITLE Athens High School Athletic Fields Bid Package No. 02A

CONSULTANT

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

 □ □ □ (SP-2) SILT FENCE (SI-3) RYCB INLET FILTER (SI-4) CURB AND GUTTER INLET FILTER (E-9) EROSION CONTROL BLANKET REFER TO O.C.W.R.C. SOIL EROSION AND SEDIMENTATION CONTROL DETAILS SHEET FOR ALL DEVICE DETAILS. 	CROSS-HATCHING INE AREAS OF EROSION (BLANKETS (E-9), TY
EROSION CONTROL QUANTITIES:SILT FENCE1,400 LF.R.Y.C.B. INLET FILTER8 EA.CURB AND GUTTER INLET FILTER1 EA.EROSION CONTROL BLANKETS14 S.Y.	
	GRASS
	GRASS
	ASPHALT

2. PLACE SILT FENCE & INSTALL INLET FILTERS ON EXISTING STORM SEWER STRUCTURES, ACCORDING TO PLANS.
3. INSTALL TEMPORARY CRUSHED CONCRETE ACCESS DRIVE AT ALL CONSTRUCTION ENTRANCES. (80'x24'x8" W/MINIMUM OF 1"-3" CRUSHED CONCRETE - NO FINES).
4. REMOVE CURB, PAVEMENT, TREES, ETC. AS DIRECTED ON THE DEMOLITION PLAN.
5. STRIP AND STOCKPILE TOPSOIL FOR RESTORATION REQUIREMENTS.
6. DISPOSE OF ALL EXCESS, UNSUITABLE MATERIALS OFF SITE IN A LEGAL MANNER. NO BURN OR BURY PITS ALLOWED.
7. UNSUITABLE MATERIALS CONSIST OF, BUT ARE NOT NECESSARILY LIMITED TO THE FOLLOWING: CONCRETE, ASPHALT, TREES, BRUSH, STUMPS, ROOTS, OR OTHER MISCELLANEOUS DEBRIS OR TRASH.
8. MASS GRADE THE SITE IN ACCORDANCE WITH THE PLANS.
9. INSTALL SEED, MULCH AND EROSION CONTROL BLANKETS AS SHOWN ON THE PLAN WITHIN 5 DAYS OF COMPLETION OF MASS GRADING OR WHENEVER DISTURBED AREAS WILL REMAIN UNCHANGED FOR 30 DAYS OR GREATER. 3-4" TOPSOIL WILL BE USED WHERE VEGETATION IS REQUIRED.
10. COMPLETE ROUGH GRADING OF SITE AND INSTALL UTILITIES. PLACE INLET FILTERS AT ALL INLETS AND CATCH BASINS, AS SHOWN.
11. FINISH GRADE AND PAVE SITE AS PROPOSED TO DRAIN TO STORM SEWER SYSTEM. REPAIR INLET FILTERS AS REQUIRED.
12. APPLY TOPSOIL, SEED AND MULCH/SOD TO ALL DISTURBED AREAS UPON COMPLETION OF GRADING. THE CONTRACTOR SHALL STAGE CONSTRUCTION ACTIVITIES IN ORDER TO MINIMIZE THE EXPOSURE OF UNSTABILIZED AREAS.
13. CLEAN PAVEMENT AND STORM SEWERS. REMOVE SILT FENCE, AND INLET FILTERS ONCE VEGETATION HAS BEEN ESTABLISHED.
14. CLEAN DETENTION BASIN AND OVERFLOW SPILLWAYS AND REPAIR RIPRAP AS NECESSARY.
15. ALL DIRT AND MUD TRACKED ONTO PUBLIC ROADS SHALL BE REMOVED DAILY.
16. STREET CATCH BASINS TO BE PERIODICALLY CLEANED AND FILTER CLOTH CHANGED AND MAINTAINED.
SOIL EROSION MAINTENANCE SCHEDULE AND NOTES
1. THE SOIL EROSION CONTROLS WILL BE MAINTAINED WEEKLY AND AFTER
EVERY STORM EVENT BY:
CITY HALL, 500 W BIG BEAVER TROY, MI 48084 248.524.3383
2. IF ANY DAMAGE HAS OCCURRED AS A RESULT OF STORM WATER DISCHARGE FROM THE SITE, THE FOLLOWING STEPS SHALL BE IMPLEMENTED.
3. ANY DEBRIS OR DIRT ON ANY PAVED AREA RESULTING FROM CONSTRUCTION TRAFFIC SHALL BE CLEANED IN A PROMPT MANNER BY THE CONTRACTOR. THE CONSTRUCTION DRIVE SHALL BE CLEANED AT THE END OF EACH DAY.
4. ALL DIRT AND MUD TRACKED ONTO PAVED AREAS SHALL BE REMOVED BY THE CONTRACTOR DAILY BY SCRAPING. STREET SWEEPING IS REQUIRED WEEKLY.
5. SILT FENCE MAINTENANCE SHALL INCLUDE THE REMOVAL OF ANY BUILT UP SEDIMENT WHEN THE SEDIMENT HEIGHT ACCUMULATES TO 1/3 TO 1/2 OF THE HEIGHT OF THE FENCE. THE CONTRACTOR IS RESPONSIBLE TO REMOVE, REPLACE, RETRENCH OR REBACKFILL THE SILTATION FENCE SHOULD IT FALL OR BE DAMAGED DURING CONSTRUCTION.
6. INLET FILTER MAINTENANCE SHALL INCLUDE THE REMOVAL OF ANY ACCUMULATED SILT OR OTHER DEBRIS. THE REMOVAL OF SILT SHOULD BE WITH THE USE OF A STIFF BRISTLE BROOM OR SQUARE POINT SHOVEL. IF INLET FILTERS CAN NOT BE CLEANED OR ARE DAMAGED, THEN THE FABRIC MUST BE REPLACED.
7. CONTRACTOR SHALL PROVIDE WATER TRUCK TO WATER DOWN THE SITE ON A DAILY BASIS AS REQUIRED TO MAINTAIN DUST CONTROL.
8. IF HIGH GROUNDWATER IS ANTICIPATED OR ENCOUNTERED DURING CONSTRUCTION A DEWATERING PLAN MUST BE SUBMITTED TO THE CITY
ENGINEERING DIVISION FOR REVIEW.
GENERAL SITE CONDITIONS:
1. IOTAL DISTURBED AREA = \pm 4.40 ACRES 2. N.P.D.E.S. NOTICE OF COVERAGE IS REQUIRED
SEQUENCE OF CONSTRUCTION:
START END DAY DAY 1 90 INSTALL CRUSHED CONCRETE ACCESS APPROACH AT SITE ROAD
APPROACH. 1 90 INSTALL TEMPORARY SOIL FROSION CONTROL MEASURES, SILT
FENCES, INLET PROTECTION, ETC. AS NECESSARY.
SITE WHERE POSSIBLE.
1 15 REMOVE ALL VEGETATION, TREES AND BRUSH FROM THE PROPOSED CONSTRUCTION AREA UNLESS MARKED TO REMAIN. STRIP AND STOCKPILE TOPSOIL AS REQUIRED RESTORATION. ALL STOCKPILES MUST BE GRADED AND SEEDED.
5 14 REMOVE ALL PAVEMENT, CURB, UTILITIES, ETC. AS REQUIRED TO INSTALL THE PROPOSED WORK AS SHOWN ON THE TOPOGRAPHIC SURVEY AND DEMOLITION PLAN.
5 14 DISPOSE OF ALL EXCESS/UNSUITABLE MATERIALS OFF SITE IN A LEGAL MANNER. NO ON-SITE BURN OR BURY PITS ALLOWED.
14 28 ROUGH GRADE SITE. SEED AND MULCH BLANKETS MUST BE INSTALLED AS SHOWN WITHIN 5 DAYS OF FINAL GRADE. REPAIR AND/OR RE-INSTALL ANY TEMPORARY SOIL EROSION CONTROL MEASURES THAT WERE DAMAGED DURING GRADING OPERATIONS.

28 60 INSTALL SITE UTILITIES (STORM SEWER, SANITARY SEWER, WATER MAIN ETC.). INSTALL INLET PROTECTION AT ALL PROPOSED CATCH BASINS.

28 90 TEMPORARY SEEDING MUST BE PROVIDED IN AREAS NOT TO BE WORKED ON FOR 15 DAYS OR LONGER.

70 80 FINE GRADE SITE AND PREPARE FOR SITE PAVING OPERATIONS.

80 110 INSTALL ALL PAVEMENT, SIDEWALKS, CURBING AS PROPOSED. IF PERMANENT LANDSCAPING IS NOT TO BE INSTALLED SOON AFTER PAVING IS COMPLETE, ALL AREAS WITHIN 20 FEET OF BACK OF CURB MUST BE TEMPORARILY SEEDED. REPAIR INLET PROTECTION, SILT FENCE AND ANY OTHER DAMAGED SOIL EROSION CONTROL MEASURES AS NECESSARY.

90 119 FINAL GRADE, REDISTRIBUTE STOCKPILED TOPSOIL, ESTABLISH VEGETATION AND INSTALL ALL PERMANENT LANDSCAPING IN ALL DISTURBED AREAS NOT BUILT.

118 120 CLEAN PAVEMENT AND REMOVE ALL TEMPORARY SOIL EROSION CONTROL MEASURES. RE-ESTABLISH VEGETATION AS REQUIRED

120 120 REMOVE SEDIMENTATION CONTROLS ONCE ENTIRE SITE HAS BEEN PERMANENTLY STABILIZED.

30 80 BEGIN CONSTRUCTION OF BUILDING.

SOIL EROSION AND SEDIMENTATION CONTROL SEQUENCE OF CONSTRUCTION

SEE OAKLAND COUNTY W.R.C. SOIL EROSION AND SEDIMENTATION CONTROL DETAILS SHEET FOR ALL SOIL EROSION CONTROL RELATED DETAILS.

SCALE: 1" = 20'

PROJECT NO. 22103D

ISSUE DATES

•

•

REQUIRED.

•	•
•	·
•	<u>.</u>
•	·
•	<u>.</u>
•	•
11-09-2023	CONSTRUCTION DOCUMENTS
DATE:	ISSUED FOR:
	JW
DRAWIN	
CHECKED	TD

CONSULTANT

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

ARCHITECTURE

 SYMBOLS: EROSION CONTROL:

 Image: Control of the symbol

 Image: Contred of the symbol

 Im

0 10 20 40 SCALE: 1" = 20'

PROJECT NO. **22103D**

ISSUE DATES

•
<u>.</u>
·
_ <u>•</u>
_ <u>•</u>
_ <u>·</u>
CONSTRUCTION DOCUMENTS
ISSUED FOR:
JW
ТО

CONSULTANT

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

UTILITY LEG	END:			7
-OH-ELEC-W-O-	— ЕХ.	OH. E	LEC, POLE & GUY WIRE	
-UG-CATV-TV-	— EX.	U.G. (CABLE TV & PEDESTAL	
-UG-COMM	D- EX.	U.G. C	COMMUNICATION LINE, PEDESTAL & MANHOL	E
-UG-ELEC-E-E-É	— ех.	U.G. E	ELEC,MANHOLE, METER & HANDHOLE	
	— EX.	GAS L	INE	
G GAS	EX.	GAS \	ALVE & GAS LINE MARKER	
T	EX.	TRAN	SFORMER & IRRIGATION VALVE	
	— EX.	WATE	RMAIN	
∀ -0- ₩	EX.	HYDR	ANT, GATE VALVE & POST INDICATOR VALVE	
V *8	EX.	WATE	R VALVE BOX & SHUTOFF	
	— EX.	SANIT	ARY SEWER	
© S	EX.	SANIT	ARY CLEANOUT & MANHOLE	
C	EX.	COME	SINED SEWER MANHOLE	
	— EX.	STOR	MSEWER	
co st	EX.	CLEA	NOUT & MANHOLE	
	EX.	SQUA	RE, ROUND, & BEEHIVE CATCH BASIN	
O ^{Y.D.} RD	EX.	YARD	DRAIN & ROOF DRAIN	
?	EX.	UNIDE	ENTIFIED STRUCTURE	
	- PRC	OPOSE	ED WATER MAIN	
$$ \otimes	PRC	OPOSE	ED HYDRANT AND GATE VALVE	
Θ	PRC	OPOSE	ED TAPPING SLEEVE, VALVE & WELL	
	PRC	OPOSE	ED POST INDICATOR VALVE	
	- PRC	POSE	ED SANITARY SEWER	
0 ^{C.0.} ●	PRC	OPOSE	ED SANITARY CLEANOUT & MANHOLE	
	- PRC	POSE	ED STORM SEWER	
O ^{C.0.} ●	PRC	POSE	ED STORM SEWER CLEANOUT & MANHOLE	
	PRC	POSE	ED CATCH BASIN, INLET & YARD DRAIN	
				-
Г	NOTE	•.		7
	CONTR	:: RACTO	OR TO VERIEVALL QUANTITIES ANY	
	DEVIA	TIONS	TO THE PLAN QUANTITIES SHALL BE	
	VERIFI	GHT T	O THE ATTENTION OF PEA GROUP FOR ON. PRIOR TO BIDDING.	
L				
	PREM	NUM	TRENCH BACKFILL NOTE:	
	ALL UT		ES UNDER PAVEMENT OR WITHIN 3' OF	
	OF INF		ICE OF PAVEMENT) SHALL HAVE	
	M.D.O.	T. CL	ASS II GRANULAR BACKFILL	
	D-1557	ACTE ').	D TO 95% MAX. DRY DENSITY (ASTM	
l				
]	REFE	RT):	7
	UTILIT	Y NO	TES ON SHEET C-9.0	
r				
			CITY OF TROY STORM SEWER	
			FRAME AND COVER NOTES	
	MANHO	OLE		
	F	RAM		
	"	CITY	OF TROY STORM" TEXT	
	CATCL			
	F	RAM	E: EJ 5080	
	(COVE	R: SINUSOIDAL M2	
	CATCH	I BAS	IN - PAVEMENT (NON-RESIDENTIAL)	
	F		E: EJ 5105 P: SINUSOIDAL M2	
		JUVL		
	CATCH		IN - NON-PAVEMENT E: E.I 1000	
	F (R: TYPE "M","N" OR "01" HEAVY DUTY	
	CATO	1 RAC		-сн
	SATOF N	MAY F	REQUIRE:	5.1
	• EJ	1040	TYPE "N" OVAL GRATE OR TYPE 02 BEEL	
	• EJ	2800	TYPE "N" OVAL GRATE OR TYPE 02 BEEI	HIVE GRTE
l	• EJ	6508	OR EJ6517	
ļ				
		STO	ORM STRUCTURES	
			(4' DIA./2' SUMP)	
	СВ	1	RIM = 652.69	
			15 NW 649.30 18" NE 649.20	
			$(4^{\circ} DIA./2^{\circ} SUMP)$ RIM = 652.96	
	СВ	2	15" W 649.43	
			15" SE 649.43	
			(4' DIA./2' SUMP)	
	CB	3	RIM = 034.00 12" W 649.99	
			12" S 649.99	
			15" E 649.89	
			(2' DIA./0' SUMP)	
	IN	4	KIM = 652.80 12" F 650.69	
	STUR	5	(1' DIA./O' SUMP) RIM = 653.99	
	5100		12" N 650.05	
			(4' DIA /2' SUMP)	
			RIM = 654.40	
	СВ	10	12" S 651.23	
			12" NE 648.68 8" F 650.68	
	-			
	STUP	11	$(1^{\circ} DIA./2^{\circ} SUMP)$ RIM = 654.50	
	STUB	11	$(1^{\circ} \text{ DIA.}/2^{\circ} \text{ SUMP})$ RIM = 654.50 12" N 651.33	

PROJECT NO. 22103D

ISSUE DATES

•	
•	
•	•
•	·
•	•
•	
٠	<u>.</u>
•	
11-09-2023	CONSTRUCTION DOCUMENTS
DATE:	ISSUED FOR:
DRAWN	JW
CHECKED	TD
	TD

PROJECT TITLE Athens High School Athletic Fields Bid Package No. 02A

REGISTRATION SEAL

CONSULTANT

EM • INFO © TMP-ARCHITECTURE.COM

TMP ARCHITECTURE INC

1191 WEST SQUARE LAKE ROAD

BLOOMFIELD HILLS · MICHIGAN · 48302

PH • 248.338.4561 FX • 248.338.0223

UTILITY LEGEN	ID:
-OH-ELEC-W-O-<	EX. OH. ELEC, POLE & GUY WIRE
-ug-catv	EX. U.G. CABLE TV & PEDESTAL
-UG-COMM	EX. U.G. COMMUNICATION LINE, PEDESTAL & MANHOLE
-UG-ELEC-E-EKE>-	EX. U.G. ELEC, MANHOLE, METER & HANDHOLE
	EX. GAS LINE
G GAS	EX. GAS VALVE & GAS LINE MARKER
T	EX. TRANSFORMER & IRRIGATION VALVE
	EX. WATER MAIN
∀ -0- ∭	EX. HYDRANT, GATE VALVE & POST INDICATOR VALVE
W WSO	EX. WATER VALVE BOX & SHUTOFF
	EX. SANITARY SEWER
© (S)	EX. SANITARY CLEANOUT & MANHOLE
©	EX. COMBINED SEWER MANHOLE
	EX. STORM SEWER
© (51)	EX. CLEANOUT & MANHOLE
	EX. SQUARE, ROUND, & BEEHIVE CATCH BASIN
O ^{T.D.} RD	EX. YARD DRAIN & ROOF DRAIN
?	EX. UNIDENTIFIED STRUCTURE
	PROPOSED WATER MAIN
$$ \otimes	PROPOSED HYDRANT AND GATE VALVE
Θ	PROPOSED TAPPING SLEEVE, VALVE & WELL
-•-	PROPOSED POST INDICATOR VALVE
	PROPOSED SANITARY SEWER
O ^{c.o.} ●	PROPOSED SANITARY CLEANOUT & MANHOLE
	PROPOSED STORM SEWER
0 ^{€.0.} ●	PROPOSED STORM SEWER CLEANOUT & MANHOLE
\bigcirc \blacksquare \bigcirc ^{1.0.}	PROPOSED CATCH BASIN, INLET & YARD DRAIN

22103D

ISSUE DATES

·
·
<u>.</u>
<u>.</u>
•
CONSTRUCTION DOCUMENTS
ISSUED FOR:
JW
TD

PROJECT TITLE Athens High School Athletic Fields Bid Package No. 02A

REGISTRATION SEAL

CONSULTANT

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

 $\underline{ST 4-1 PROFILE}_{VERT:} \begin{array}{l} HORIZ: 1'' = 20'\\ VERT: 1'' = 2' \end{array}$

PROPOSED RIM		RIM 654.00 4 ¹ DIA	PROPOSED RIM
655	655		655
650	650		650
645	645	11'-12" RCP at 0.50% STUB 5 3	645
ROPOSED INVERT ELEVATIONS	640	12" N 650.05 12" W 649.99 12" E 649.99 15" E 649.89	PROPOSED INVERT ELEVATIONS 640

 $ST 5-3 PROFILE \qquad HORIZ: 1'' = 20' \\ VERT: 1'' = 2'$

PROJECT NO. **22103D**

ISSUE DATES

•_____•____

•	·	
•	·	
•	·	
•	· .	
•	· .	
•	•	
11-09-2023	CONSTRUCTION DOCUMENTS	
DATE:	ISSUED FOR:	
DRAWN	W	
CHECKED	Т	
	ТР	

PROJECT TITLE Athens High School Athletic Fields Bid Package No. 02A

CONSULTANT

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

HESE NOTES APPLY TO ALL CONSTRUCTION ACTIVITIES ON THIS PROJECT.	1. ALL WORKMANS
. ALL CONSTRUCTION, WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH CURRENT OSHA, MDOT AND MUNICIPALITY STANDARDS AND REGULATIONS.	2. ALL TRENCHES
. THE CONTRACTOR SHALL NOTIFY THE CITY ENGINEER AND/OR THE AUTHORITY HAVING JURISDICTION 3 BUSINESS DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION.	NINETY-FIVE (9 BETTER.
. THE CONTRACTOR SHALL 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	3. WHERE EXISTING OPENING TO CF
AT HIS OWN RISK. ALL NECESSARY PERMITS, TESTING, BONDS AND INSURANCES ETC., SHALL BE PAID FOR BY THE CONTRACTOR. THE OWNER SHALL PAY FOR ALL CITY INSPECTION FEES.	4. THE LOCATIONS INFORMATION V INFORMATION C
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	5. THE CONTRACT PLACED FOR T THEIR PROPER 6. PIPE LENGTHS
THAT THE CONFLICT MAY BE RESOLVED. CONTRACTOR SHALL 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 ENCINEER BEFORE COMMENT OF CONSTRUCTION FAILURE TO DO SO SHALL BE AT SOLE	7. CONTRACTOR S LIMITS OF CON ENGINEER, OWN NEED OF REPA
EXPENSE TO THE CONTRACTOR.	STORM SEWER
THE AGENCIES HAVING JURISDICTION AND SHALL NOT BEGIN UNTIL ALL NECESSARY PERMITS HAVE BEEN ISSUED FOR THE WORK. ALL PROPERTIES OR FACILITIES IN THE SURROUNDING AREAS, PUBLIC OR PRIVATE, DESTROYED OR OTHERWISE DISTURBED DUE TO	1. ALL STORM SE TONGUE AND (
CONSTRUCTION, SHALL BE REPLACED AND/OR RESTORED TO THE ORIGINAL CONDITION BY THE CONTRACTOR. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY BARRICADING, SIGNAGE, LIGHTS AND TRAFFIC CONTROL DEVICES TO PROTECT THE	3. ALL STORM SE
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, 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.	4. JOINTS FOR P.
. THE USE OF CRUSHED CONCRETE IS PROHIBITED ON THE PROJECT WITHIN 100 FEET OF ANY WATER COURSE (STREAM, RIVER, COUNTY DRAIN, ETC.) AND LAKE, REGARDLESS OF THE APPLICATION OR LOCATION OF THE WATER COURSE OR LAKE RELATIVE TO THE PROJECT LIMITS.	
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.	ADVANCE AND IN THIS LIST SHALL E
AVING NOTES:	2. UTILITY TRENCI THE SUBMITTAI
IN AREAS WHERE NEW PAVEMENTS ARE BEING CONSTRUCTED, THE TOPSOIL AND SOIL CONTAINING ORGANIC MATTER SHALL BE REMOVED PRIOR TO PAVEMENT CONSTRUCTION.	3. RIP RAP MATEI UNLESS APPRO
REFER TO ARCHITECTURAL PLANS FOR DETAILS OF FROST SLAB AT EXTERIOR BUILDING DOORS. CONSTRUCTION TRAFFIC SHOULD BE MINIMIZED ON THE NEW PAVEMENT. IF CONSTRUCTION TRAFFIC IS ANTICIPATED ON THE PAVEMENT	4. STORM AND SA 5. STORM AND SA
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.	6. STORM AND SA
ALL EXPANSION JOINTS AND CONCRETE PAVEMENT JOINTS TO BE SEALED.	7. PAVEMENT AG
 WHERE PROPOSED CONCRETE ABUTS A STRUCTURE, PROVIDE A MINIMUM 1/2" EXPANSION JOINT. THE JOINT FILLER BOARD MUST BE AT LEAST THE FULL DEPTH OF THE CONCRETE AND HELD DOWN A 1/2" TO ALLOW FOR SEALING. 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 EXISTING SEALING MUST BE ADDROVED THE ENCINE PROPORED CONVERSION WORK AND MADE THE 	8. PAVEMENT UNI WITHIN 60 DAY 9. PAVEMENT MIX SUMMARIZED E
ALIERNATE DOWELS SIZES AND SPACING MUST BE APPROVED THE ENGINEER PRIOR TO COMMENCING WORK AND VIA THE SUBMITTAL PROCESS. .3. WHERE PROPOSED CONCRETE ABUTS EXISTING OR PROPOSED SIDEWALK OR CURBING, PROVIDE A MINIMUM 1/2" EXPANSION JOINT. .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:	•8.1. CONCRE •8.2. SUPERF •8.3. MARSH
5.4.1. 6-INCH THICK CONCRETE PAVEMENT: 12' X 12' 5.4.2. 8-INCH THICK CONCRETE PAVEMENT: 15' X 15' 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. 5.6. IF A JOINT PLAN IS NOT PROVIDED IN THE PLANS. THE CONTRACTOR SHALL SUBMIT ONE TO THE ENGINEER FOR REVIEW PRIOR TO	10. SITE FENCING 11. SITE RAILINGS 12. ANY ITEMS SHO
COMMENCING WORK AND VIA THE SUBMITTAL PROCESS. CONCRETE CURBING JOINTING - UNLESS SHOWN OTHERWISE IN THE PLANS OR REQUIRED BY THE AUTHORITY HAVING JURISDICTION	DRAWING TO TH
5.1. JOINTS WHEN ADJACENT TO ASPHALT PAVEMENT 6.1.1. PLACE CONTRACTION JOINTS AT 10' INTERVALS 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:	ANY SPECI SHALL SUE CONTRACTO INFORMATIO
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	
6.2.1. 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) 3.3. 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	
. 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' SPACING 7.5. PLACE 1/2" EXPANSION JOINT WHEN ABUTTING A FIXED STRUCTURE, OTHER PAVEMENT (CONCRETE PAVEMENT AND DRIVE APPROACHES), UTILITY STRUCTURES, LIGHT POLE BASES AND COLUMNS 	
ENERAL GRADING AND EARTHWORK NOTES:	
HESE NUTES APPLY TO ALL CONSTRUCTION ACTIVITIES ON THIS PROJECT CONTRACTOR SHALL FIELD VERIFY ALL EXISTING TREES AND BRUSH AND REMOVE ALL THAT ARE NECESSARY TO GRADE SITE.	
ALL GRADES ARE TO TOP OF PAVEMENT UNLESS OTHERWISE NOTED. THE STAGING OF CONSTRUCTION ACTIVITIES SHALL OCCUR ONLY WITHIN THE SITE BOUNDARIES ANY CONSTRUCTION ACTIVITIES OUTSIDE	
OF THE SITE BOUNDARIES SHALL BE AT THE SOLE RESPONSIBILITY AND RISK OF THE CONTRACTOR. ALL SOIL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL MEET THE REQUIREMENTS OF THE AUTHORIZED PUBLIC AGENCY OF JURISDICTION. AN EROSION CONTROL PERMIT MUST BE SECURED FROM THE CITY PRIOR TO CONSTRUCTION.	
ALL EARTHWORK AND GRADING OPERATIONS SHALL BE PERFORMED IN ACCORDANCE WITH THE SOILS INVESTIGATION AND REPORT.	
REFER TO SOIL EROSION CONTROL PLAN FOR ADDITIONAL SOIL EROSION AND SEDIMENTATION CONTROL MEASURES AND NOTES. THE DETENTION BASIN SIDE SLOPES AND ALL SLOPE EXCEEDING 1:6 MUST BE STABILIZED BY SODDING OR BY PLACING A MULCH BLANKET PEGGED IN PLACE OVER SEED.	
ALL DISTURBED AREAS SHALL BE SEEDED AND MULCHED OR SODDED IN ACCORDANCE WITH THE LANDSCAPE PLANS. PROVIDE A MINIMUM OF 3" OF TOPSOIL IN THESE AREAS UNLESS OTHERWISE NOTED.	
THE CONTRACTOR SHALL NOTE EXISTING UNDERGROUND UTILITIES WITHIN AND ADJACENT TO THE SITE. BACKFILL FOR EXISTING UTILITY TRENCHES 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 INFLUENCE OF PROPOSED BUILDINGS OR PAVEMENT SHALL BE COMPLETELY EXCAVATED AND BACKFILLED WITH SUITABLE MATERIAL.	
D. 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 FREE OF FROZEN SOIL, ORGANICS, OR OTHER DELETERIOUS MATERIALS.	
. THE FINAL SUBGRADE/EXISTING AGGREGATE BASE SHOULD BE THOROUGHLY PROOFROLLED USING A FULLY LOADED TANDEM AXLE TRUCK OR FRONT END LOADER UNDER THE OBSERVATION OF A GEOTECHNICAL/PAVEMENT 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.	
2. 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 TOPSOIL IN FILL AREAS OR BELOW SUBGRADE IN CUT AREAS WILL BE CLASSIFIED AS SUBGRADE UNDERCUTTING.	
3. SUBGRADE UNDERCUTTING SHALL BE PERFORMED WHERE NECESSARY AND THE EXCAVATED MATERIAL SHALL BECOME THE PROPERTY OF THE CONTRACTOR. ANY SUBGRADE UNDERCUTTING SHALL BE BACKFILLED AS RECOMMENDED IN THE GEOTECHNICAL ENGINEERING REPORT FOR THE PROJECT.	
4. ANY SUB-GRADE WATERING REQUIRED TO ACHIEVE REQUIRED DENSITY SHALL BE CONSIDERED INCIDENTAL TO THE JOB.	

ERAL UTILITY NOTES:

. WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE CITY. . TRENCHES UNDER OR WITHIN THREE (3) FEET OR THE FORTY-FIVE (45) DEGREE ZONE OF INFLUENCE LINE OF EXISTING D/OR PROPOSED PAVEMENT, BUILDING PAD OR DRIVE APPROACH SHALL BE BACKFILLED WITH SAND COMPACTED TO AT LEAST ETY-FIVE (95) PERCENT OF MAXIMUM UNIT WEIGHT (ASTM D-1557). ALL OTHER TRENCHES TO BE COMPACTED TO 90% OR

ERE EXISTING MANHOLES OR SEWER PIPE ARE TO BE TAPPED, DRILL HOLES 4" CENTER TO CENTER, AROUND PERIPHERY OF ENING TO CREATE A PLANE OF WEAKNESS JOINT BEFORE BREAKING SECTION OUT. HE LOCATIONS AND DIMENSIONS SHOWN ON THE PLANS FOR EXISTING UTILITIES ARE IN ACCORDANCE WITH AVAILABLE IFORMATION WITHOUT UNCOVERING AND MEASURING. THE DESIGN ENGINEER DOES NOT GUARANTEE THE ACCURACY OF THIS IFORMATION OR THAT ALL EXISTING UNDERGROUND FACILITIES ARE SHOWN. CONTRACTOR SHALL FIELD VERIFY UTILITIES.

HE CONTRACTOR SHALL COORDINATE TO ENSURE ALL REQUIRED PIPES, CONDUITS, CABLES AND SLEEVES ARE PROPERLY LACED FOR THE INSTALLATION OF GAS, ELECTRIC, PHONE, CABLE, IRRIGATION, ETC. IN SUCH A MANNER THAT WILL FACILITATE HEIR PROPER INSTALLATION PRIOR TO THE PLACEMENT OF THE PROPOSED PAVEMENT AND LANDSCAPING.

IPE LENGTHS INDICATED ARE FROM CENTER OF STRUCTURE AND TO END OF FLARED END SECTION UNLESS NOTED OTHERWISE. ONTRACTOR SHALL INSPECT ALL EXISTING PUBLIC STORM SEWER, SANITARY SEWER AND WATER MAIN STRUCTURES WITHIN THE MITS OF CONSTRUCTION AND WITH THE GOVERNING AGENCY INSPECTOR PRIOR TO ESTABLISHING FINAL GRADE. NOTIFY THE GINEER, OWNER/DEVELOPER, AND GOVERNING AGENCY IF STRUCTURE IS DEEMED TO BE STRUCTURALLY UNSOUND AND/OR IN

RM SEWER NOTES:

. STORM SEWER 12" DIAMETER OR LARGER SHALL BE REINFORCED CONCRETE PIPE (RCP C-76) CLASS IV WITH MODIFIED NGUE AND GROOVE JOINT WITH RUBBER GASKETS UNLESS SPECIFIED OTHERWISE (ASTM C-443). . STORM SEWER LEADS SHALL BE CONSTRUCTED AT 1.00% MINIMUM SLOPE.

. STORM SEWER 10" OR LESS AND/OR LEADS SHALL BE SDR 26.

INTS FOR P.V.C. PIPE SHALL BE ELASTOMERIC (RUBBER GASKET) AS SPECIFIED IN A.S.T.M. DESIGNATION D-3212.

TRUCTION MATERIAL SUBMITTALS

SS REQUIRED OTHERWISE IN THE PROJECT SPECIFICATIONS, THE CONTRACTOR SHALL ONLY SUBMIT THE FOLLOWING TRUCTION MATERIAL SUBMITTALS, AS APPLICABLE TO THE PLANS, FOR REVIEW BY THE ENGINEER. UNLESS APPROVED IN NCE AND IN WRITING BY THE ENGINEER, ANY MATERIAL SUBMITTALS PROVIDED TO THE ENGINEER FOR REVIEW IN ADDITION TO LIST SHALL BE RETURNED TO THE CONTRACTOR WITHOUT A REVIEW BEING PERFORMED. OIL EROSION AND SEDIMENTATION CONTROL MEASURES

ILITY TRENCH BACKFILL MATERIAL WITH ALL MATERIAL DATA INCLUDED IN THE SUBMITTAL BEING DATED WITHIN 60 DAYS OF E SUBMITTAL UNLESS APPROVED OTHERWISE BY THE ENGINEER P RAP MATERIAL WITH ALL MATERIAL DATA INCLUDED IN THE SUBMITTAL BEING DATED WITHIN 60 DAYS OF THE SUBMITTAL

NLESS APPROVED OTHERWISE BY THE ENGINEER FORM AND SANITARY SEWER PIPING INCLUDING JOINTS

TORM AND SANITARY SEWER STRUCTURES

FORM AND SANITARY SEWER STRUCTURE FRAME AND COVERS INCLUDING CLEAN OUTS

AVEMENT AGGREGATE BASE MATERIAL WITH ALL MATERIAL DATA INCLUDED IN THE SUBMITTAL BEING DATED WITHIN 60 DAYS OF IE SUBMITTAL UNLESS APPROVED OTHERWISE BY THE ENGINEER VEMENT UNDERDRAIN MATERIAL AND BACKFILL WITH ALL BACKFILL MATERIAL DATA INCLUDED IN THE SUBMITTAL BEING DATED THIN 60 DAYS OF THE SUBMITTAL UNLESS APPROVED OTHERWISE BY THE ENGINEER

AVEMENT MIX DESIGNS SUBMITTED FOR REVIEW BY THE ENGINEER MUST FOLLOW THE CURRENT MDOT REVIEW CHECKLISTS AS JMMARIZED BELOW AND ALL MATERIAL DATA INCLUDED IN THE SUBMITTAL BEING DATED WITHIN 60 DAYS OF THE SUBMITTAL LESS APPROVED OTHERWISE BY THE 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)

SITE FENCING AND GATES INCLUDING FOOTINGS ITE RAILINGS INCLUDING FOOTING OR EMBEDMENTS

NY ITEMS SHOWN IN THE PLANS OR DETAIL SHEETS THAT SPECIFICALLY STATE FOR THE CONTRACTOR TO SUBMIT A SHOP AWING TO THE ENGINEER FOR REVIEW. THESE ITEMS INCLUDE, BUT ARE NOT LIMITED TO: TRENCH DRAIN MATERIAL AND SHOP DRAWING DEPICTING THE LAYOUT OF THE SYSTEM

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 REQUESTS TO BE REVIEWED. THE CONTRACTOR'S REQUEST FOR REVIEW MUST BE IN WRITING AND APPROVED BY THE ENGINEER PRIOR TO SUBMITTING THE INFORMATION.

PROJECT NO. 22103D

ISSUE DATES

• • • • • •

	·	
•	_ <u>.</u>	
•		
•		
•	<u>.</u>	
•	·	
•	_ <u>·</u>	
11-09-2023	CONSTRUCTION DOCUMENTS	
DATE:	ISSUED FOR:	
DRAWN	JW	
CHECKED	тр	

4

PROJECT TITLE **Athens High School Athletic Fields** Bid Package No. 02A

CONSULTANT

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

XX-XX

0. X.

F Z

AC

TR.

NO

9 ž

 \cup c

De

18. Before final acceptance, As-Built drawings must be submitted to the City of Troy Engineering Department. One electronic copy (PDF) and one digital copy (DWG or DGN) is required.

All construction shall conform to the current standards and specifications of the City of Troy. Prior to construction, the contractor shall attend a preconstruction meeting at a time and place arranged by the City Engineer, in which various utility companies and governmental agency representatives will be present. The design engineer shall submit approved plans to all utility companies and governmental agencies 10 (ten) days prior to the preconstruction meeting. Construction shall start within 3 (three) weeks of the meeting. The contractor shall notify the City Engineer 72 hours prior to starting any work

2. The entire project area of publicly funded projects, and all areas not under the ownership of any private developer for privately funded projects, shall be digitally recorded in color prior to the start of construction. The DVD shall be utilized by the City to determine construction related damage and to assure adequate restoration.

3. Before start of construction, the contractor must request and have in his possession a sewer inspection permit issued by the Water Resource Commissioner's (WRC) office and contact the WRC office at 248-885-1105 24 hours prior to starting work. WRC must witness the new connection and all testing.

4. Prior to any excavation, the contractor shall telephone Miss Dig (1-800-482-7171) for the location of underground facilities and shall also notify representatives of other utilities located in the vicinity of the work. The contractor shall assume responsibility for the protection of all existing utilities, services and mains during construction. All costs for locating, removing and replacing or relocating these utilities, services and mains shall be included in the cost of constructing the sanitary sewer. All utilities, services and mains damaged during construction shall be repaired with like material. The contractor shall verify the depth and horizontal location of all existing utilities, services and mains before any work is started. The exact location of existing utilities, services and mains shall be determined by hand digging.

A City of Troy, Road Commission for Oakland County, and/or Michigan Department of Transportation permit is required for all construction within their road Right-of-Ways. It is the contractor's responsibility to secure all permits and bonds prior to construction, or to insure that all required permits and bonds have been obtained prior to starting construction.

6. The contractor shall abide by all the requirements of the road Right-of-Way owner regarding construction of sanitary sewer mains, maintaining traffic, barricading, boring, backfill and restoration. There will be no additional compensation due the contractor for complying with these requirements.

7. Prior to the start of construction, the contractor shall furnish material certificates to the City Engineer verifying that all the materials used on the project are in accordance with the specifications.

All construction changes must have written approval of the City Engineer. 8.

Sewer Pipe Material:

a. 8" through 15" pipe shall be PVC (Poly Vinyl Chloride) composite sewer pipe conforming to the current ASTM D2680 specifications with elastomeric rubber gasketed joints for PVC.

b. 18" and larger pipe shall be reinforced concrete circular sewer pipe conforming to the current ASTM specification C-76 (Wall C) with size and class as indicated on the plans. All reinforced concrete sewer pipe shall be cast with reinforcing steel extending into the spigots. All joints and gaskets shall be modified tongue and groove, conforming to the requirements of ASTM (C-443).

Extra strength vitrified clay pipe conforming to the current ASTM specification (C-700). For use in industrial areas only.

11. All precast manholes, slab bases, concrete pipe and concrete channelization shall be manufactured with Type II, IP or IIA cement.

12. Manhole steps shall normally be provided on a back wall of the manhole furthest from traffic, manhole steps shall be factory installed at 16 inches center to center spacing. Steps shall be M.A. Industries P.S.I. Polypropylene MSU #360 ALU Poly or approved alternate

13. At the connections to manholes, sewers or extensions thereto, drop connections will be required when the difference in invert elevations exceeds 18 inches. All drop connections are to be interior, minimum manhole diameter is 5 feet.

14. Existing manholes shall be tapped with the "Kor-N-Seal" method, with a water-tight rubber boot for sewers 6" thru 15" in diameter. Manhole taps for 18" diameter sewers and larger shall have holes drilled at 4 inches on center around the periphery of the opening to create a plane of weakness before breaking out the section. Non-shrink grout shall be used to seal the opening and a concrete collar shall be poured 12 inches around the pipe and extend 12 inches beyond the opening

15. Individual sanitary service leads shall be required for each separate unit within a proposed commercial, industrial and/or multiple family residential buildings.

16. Building lead connections shall be made with 6" wyes for PVC and 6" tees for concrete pipe. Wyes for PVC and pipe shall be factory fabricated (not extruded) and shall be checked for irregularities which could affect the deflection test prior to installation. Building lead pipe, wyes and caps shall be solid wall plastic pipe, 6" dia. SCH 40 or SDR 23.5 with chemically welded joints. The joint between two dissimilar sizes or types of building lead pipe shall be made with a proper fitting acceptable to the City Engineer.

17. All sanitary sewer leads shall be marked with a 2"x2"x8' location stake buried to 6" below finish grade.

18. No ground water, storm water, construction water, downspout drainage or weep tile drainage shall be allowed to enter any sanitary sewer installation.

19. In industrial areas, or any other areas where deemed necessary by the City Engineer, private service connections made to the service lead must have an accessible sampling and monitoring manhole. The manhole shall be located on private property at a location approved by the City Engineer.

20. Grease, oil and sand interceptors shall be installed by the user when the City Engineer determines they are necessary for the proper handling of liquid wastes, to remove grease in excessive amounts, to remove any flammable wastes, sand and other harmful ingredients. All interceptors shall be of a type and capacity approved by the City, shall be located so as to be rapidly and easily accessible for cleaning and inspection, and shall be continuously maintained by the user in an operating condition to accomplish the required result. All restaurants or establishments involved in the preparation of food shall install a grease interceptor. All grease interceptors shall be constructed in accordance with the detail and shall have a minimum capacity of 1000 gallons. The detail shown below is not designed to withstand traffic loads.

The ends of the casing shall be sealed after the sewer is installed through the casing

PIPE SIZE	RECOMMENDED MINIMUM CASING DIAMETER	MINIMUM WALL THICKNESS
6"	12"	.375
8"	16"	.375
10"	18"	.375
12"	20"	.375
15"	24"	.406
18" & 21"	36"	.532
24"	42"	.563
27" & 30"	48"	.625
36"	54"	.688
42"	60"	.750
48"	66"	.813
STEEL (CASING REQUIREME	NTS

GENERAL NOTES

10. All new manholes shall have approved flexible, water-tight seals where pipes pass through walls. Manholes shall be precast reinforced concrete in accordance with ASTM C478 current specifications. Precast manhole joints and gaskets shall be modified tongue and groove in accordance with ASTM C443 current specifications. Precast manhole cone sections shall be City of Troy modified eccentric cone type. All manholes shall be provided with bolt down frames and bolted, water-tight covers

21. A mainline trace wire must be installed, with all service lateral trace wires properly connected to the mainline trace wire, to ensure full tracing/locating capabilities from a single connection point. Lay mainline trace wire continuously, by-passing around the outside of manholes/structures on the North or East side. Trace wire on all sanitary service laterals must terminate at an approved trace wire access box color coded green and located directly above the service lateral at the edge of road right of way.

22. All sewer installations shall pass low pressure air test, deflection test and television inspection as specified in the city standards. All testing shall be carried out under the direct supervision of the inspector and the contractor Any testing performed in the absence of a representative of the City will not be approved.

Air Test Table Minimum holding time in seconds required for pressure to drop from 4 to 3 psi Pipe Diameter

	X	⊿"	6"	8"	10"	12"	15"	18"	21"	24"	27"	30"	33"	36"
	25 50 75 100	4 9 10 18	10 20 30 40	18 35 53 70	28 55 83 110	70 79 119 158	62 124 186 248	89 178 267 356	121 243 364 485	158 317 475 634	200 401 601 765	248 495 743 851	299 599 898 935	356 713 1020
ו Feet	125 150 175 200	22 26 31 35	50 59 69 79	88 406 123 141	138 165 193 220	198 238 277 317	309 371 425 	446 510 	595 	680 				
I Of Line Ir	225 250 275 300	40 44 48 53	89 99 109 119	158 176 194 211	248 275 283 	340 								
Length	350 400	62 70	139 158	227 										
	450 500	79 88	170 											
	550 600	97 106												
	650	113	170	227	283	340	425	510	595	680	765	851	935	1020

NOTE: TO BE USED WHEN TESTING ONE DIAMETER ONLY

23. All television inspections shall be recorded on digital video disk (DVD) and turned over to the City for reference at a later date. The digital video recording shall display continuously the date, time and engineering stations and shall periodically display the name of the project, name of the area covered and direction of travel.

24. PVC composite pipe and any approved plastic pipe shall be subject to deflection test 30 days after construction with a nine sided mandrel. The contractor must supply the mandrel and perform the test. The City will witness the test. Deflection shall not exceed 5%. The City reserves the right to test the sewer for deflection not to exceed 7% during the period of the maintenance bond. Any sewer found exceeding these limits shall be replaced by and at the contractor's expense.

25. Infiltration testing when required cannot exceeding 100 gallons per inch of diameter per mile of pipe per 24 hour period. Test sections shall generally be limited to a maximum length of one half mile. The city reserves the right to test shorter pipe length segments if deemed necessary to assure that no segment exceeds the infiltration limits.

26. The contractor shall provide a 3 year maintenance and guarantee bond to the City, dated from the time of final acceptance by the City. The bond shall be for 35% of the construction costs.

27. Before final acceptance, As-Built drawings must be submitteto the City of Troy Engineering Department. One electronic copy (PDF) and one digital copy (DWG or DGN) is required.

LEGEND					
EXISTING	PROPOSED				
2 SPOT ELEVATION	× 100.00 SPOT GRADE				
	T/T=XXX.XX TOP OF TRENCH ELEVATION				
	T/C=XXX.XX TOP OF CURB ELEVATION				
STORM DRAIN	T/W=XXX.XX TOP OF WALL ELEVATION				
ATAOATA O- LIGHT POLE	DRAINAGE SWALE				
— — E — ELECTRICAL					
- T- TELEPHONE	ST 12" ATHLETIC STORM PIPE				
— - GAS- — GAS	4" PERFORATED DRAINTILE				
	6" PERFORATED DRAINTILE				
	LIGHT POLE				
	E ELECTRICAL				
	T TELEPHONE				
	IRRIGATION				
	LIMITS OF CONSTRUCTION				
	ACRYLIC COATING OVER POST-TENSION CONCRETE OVER SAND BASE				
	POST-TENSION CONCRETE OVER SAND BASE				
	REINFORCED CONCRETE				
	+ + TOPSOIL AND SEED				
	SYNTHETIC TURF				

- 1. NOTES AND LEGEND SHALL APPLY TO ALL SHEETS AND ALL SITES
- 2. CONTRACTOR SHALL BE SOLELY RESPONSIBLE AND MAKE EVERY EFFORT TO LOCATE EXISTING UNDERGROUND UTILITIES. THIS SHALL INCLUDE CONSULTING WITH ALL LOCAL UTILITY COMPANIES AND USING A SIGNAL LOCATOR PRIOR TO EXCAVATION. ANY AND ALL REPAIRS SHALL BE COMPLETED WITHIN 48 HRS. OR THE OWNER SHALL HAVE THE REPAIR WORK COMPLETED AT THE CONTRACTORS EXPENSE.
- 3. TOPSOIL AND SEED ALL AREAS DISTURBED AND NOT OTHERWISE DEVELOPED. ALL WORK I.E. DEMOLITION AND REMOVALS, DRAINAGE WORK, STONE AND ASPHALT, FENCING, TRACK SURFACE, ETC. SHALL BE COMPLETED BY DATE AS NOTED IN CONTRACT DOCUMENTS. ALL LAWN AREAS SHALL SLOPE
- 4. ALL CONTOURS AND SPOT GRADES REFER TO FINISH GRADE OF LAWN, ASPHALT, OR CONCRETE. <u>DO</u> NOT FACTOR IN THE ACRYLIC COATING DEPTH.

Troy School District Troy, Michigan DRAWING TITLE Athletics Site Plan

-• • • ·____ • ·____ • -----• -----. 11–09 DATE DRAV -----CHEC _____

> PROJECT NO. 22103D DRAWING NO. L3.01

ISSUE DAT	TES .
•	•
•	
•	<u>.</u>
•	·
•	·
•	<u>·</u>
•	·
•	· · · · · · · · · · · · · · · · · · ·
•	- <u>·</u>
•	
11-09-2023	CONSTRUCTION DOCUMENTS
DATE:	ISSUED FOR:
DRAWN	JCJ/JB/KD
CHECKED	Mds
Approved	BSL

3269 COOLIDGE HWY * BERKLEY, MI 48072 PH. 248.547.7757 * FAX 248.547.0218 WWW.FORESITEDESIGN.COM

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

SEE SHEET LD3.04 FOR PRACTICE TURF DETAILS SEE SHEET LD3.05 FOR FOOTBALL DETAILS SEE SHEET LD3.06 FOR SOCCER DETAILS SEE SHEET LD3.07 FOR LACROSSE DETAILS

LEGEND					
EXISTING	PROPOSED				
\times^{2^3} SPOT ELEVATION	× 100.00 SPOT GRADE				
	T/T=XXX.XX TOP OF TRENCH ELEVATION				
	T/C=XXX.XX TOP OF CURB ELEVATION				
	T/W=XXX.XX TOP OF WALL ELEVATION				
AAADAAA O- LIGHT POLE	DRAINAGE SWALE				
— — E — ELECTRICAL					
	🖶 🔶 DRAINAGE STRUCTURE				
— — T — TELEPHONE	ST 12" ATHLETIC STORM PIPE				
— - GAS- — GAS	4" PERFORATED DRAINTILE				
	6" PERFORATED DRAINTILE				
	E ELECTRICAL				
	WATER				
	T TELEPHONE				
	IRR - IRRIGATION				
	- LIMITS OF CONSTRUCTION				

NOTES

- 1. NOTES AND LEGEND SHALL APPLY TO ALL SHEETS AND ALL SITES
- 2. CONTRACTOR SHALL BE SOLELY RESPONSIBLE AND MAKE EVERY EFFORT TO LOCATE EXISTING UNDERGROUND UTILITIES. THIS SHALL INCLUDE CONSULTING WITH ALL LOCAL UTILITY COMPANIES AND USING A SIGNAL LOCATOR PRIOR TO EXCAVATION. ANY AND ALL REPAIRS SHALL BE COMPLETED WITHIN 48 HRS. OR THE OWNER SHALL HAVE THE REPAIR WORK COMPLETED AT THE CONTRACTORS EXPENSE.
- 3. TOPSOIL AND SEED ALL AREAS DISTURBED AND NOT OTHERWISE DEVELOPED. ALL WORK I.E. DEMOLITION AND REMOVALS, DRAINAGE WORK, STONE AND ASPHALT, FENCING, TRACK SURFACE, ETC. SHALL BE COMPLETED BY DATE AS NOTED IN CONTRACT DOCUMENTS. ALL LAWN AREAS SHALL SLOPE TO DRAINAGE STRUCTURES.
- 4. ALL CONTOURS AND SPOT GRADES REFER TO FINISH GRADE OF LAWN, ASPHALT, OR CONCRETE. <u>DO</u> NOT FACTOR IN THE ACRYLIC COATING DEPTH.

20 40 SCALE: 1"=40'

PRO 22

PRO

At At

A R	CHITECTURE
тмра	ARCHITECTURE INC
BLOC	1191 WEST SQUARE LAKE ROAD DMFIELD HILLS · MICHIGAN · 48302
PH EM	(· 248.338.4561 FX · 248.338.0223 · INFO ® TMP-ARCHITECTURE.COM
REGISTRA	fion seal
CONSULTA	ANT
FOI	
ATHLETIC FAC CONSULTI	UESIUTI CILITY PLANNING *SITE PLANNING * ING * LANDSCAPE ARCHITECTURE
3269 COOLI PH. 248. WWW.	DGE HWY * BERKLEY, MI 48072 547.7757 * FAX 248.547.0218 FORFSTTEDESTGN.COM
PROIFCT	-1 / _1.F
Athon	s High School
Athlat	ia Eialda
BIG Pa	ackage No. UZA
Trov S	chool District
Troy, N	lichigan
DRÁWING	; TITLE
Athleti	cs Dimension Plan
ISSUE DAT	ES
•	
•	· <u>· </u>
•	
•	·
•	· ·
•	·
· 11-09-2023	CONSTRUCTION DOCUMENTS
DATE:	ISSUED FOR:
DRAWN	JCJ/JB/KD
CHECKED	Mds
APPROVED	BSL
PROIECT N	10,
PROJECT N	10, 10,

LEGEND					
EXISTING	PROPOSED				
\times $^{2^3}$ SPOT ELEVATION	X 100.00 SPOT GRADE				
	T/T=XXX.XX TOP OF TRENCH ELEVATION				
	T/C=XXX.XX TOP OF CURB ELEVATION				
	T/W=XXX.XX TOP OF WALL ELEVATION				
AAAOAAA O LIGHT POLE	DRAINAGE SWALE				
— — E — ELECTRICAL	- X X FENCE - SEE PLANS FOR HT.				
	🖶 🔶 DRAINAGE STRUCTURE				
	ST 12" ATHLETIC STORM PIPE				
	FLAT DRAIN				
— - GAS- — GAS	4" PERFORATED DRAINTILE				
	6" PERFORATED DRAINTILE				
	LIGHT POLE				
	E ELECTRICAL				
	WATER				
	T TELEPHONE				
	IRR - IRRIGATION				
	IMITS OF CONSTRUCTION				

NOTES

- 1. NOTES AND LEGEND SHALL APPLY TO ALL SHEETS AND ALL SITES
- 2. CONTRACTOR SHALL BE SOLELY RESPONSIBLE AND MAKE EVERY EFFORT TO LOCATE EXISTING UNDERGROUND UTILITIES. THIS SHALL INCLUDE CONSULTING WITH ALL LOCAL UTILITY COMPANIES AND USING A SIGNAL LOCATOR PRIOR TO EXCAVATION. ANY AND ALL REPAIRS SHALL BE COMPLETED WITHIN 48 HRS. OR THE OWNER SHALL HAVE THE REPAIR WORK COMPLETED AT THE CONTRACTORS EXPENSE.
- 3. TOPSOIL AND SEED ALL AREAS DISTURBED AND NOT OTHERWISE DEVELOPED. ALL WORK I.E. DEMOLITION AND REMOVALS, DRAINAGE WORK, STONE AND ASPHALT, FENCING, TRACK SURFACE, ETC. SHALL BE COMPLETED BY DATE AS NOTED IN CONTRACT DOCUMENTS. ALL LAWN AREAS SHALL SLOPE TO DRAINAGE STRUCTURES.
- 4. ALL CONTOURS AND SPOT GRADES REFER TO FINISH GRADE OF LAWN, ASPHALT, OR CONCRETE. <u>DO</u> NOT FACTOR IN THE ACRYLIC COATING DEPTH.

• • • • • • • • • • . 11–09 **DATE:** DRAV CHEC

22103D

•	<u>.</u>
•	<u>.</u>
•	<u> </u>
•	<u>.</u>
•	<u>.</u>
•	<u>.</u>
11-09-2023	CONSTRUCTION DOCUMENTS
DATE:	ISSUED FOR:
DRAWN	JCJ/JB/KD
CHECKED	Mds
Approved	BSL

ISSUE DATES

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

ARCHITECTURE

LEG	END
EXISTING	PROPOSED

 $\times^{2^{2}}$ SPOT ELEVATION

⊿дд⊖ддд О—□ LIGHT POLE

— — E — ELECTRICAL

- - T - TELEPHONE

— - GAS- — **GAS**

--- w-- water

× 100.00	SPOT GRADE
T/T=XXX.XX	TOP OF TRENCH ELEVATION
T/C=XXX.XX	TOP OF CURB ELEVATION
T/W=XXX.XX	TOP OF WALL ELEVATION
	DRAINAGE SWALE
<u> </u>	FENCE - SEE PLANS FOR HT.
⊕ ቀ	DRAINAGE STRUCTURE
—ST —	12" ATHLETIC STORM PIPE
	FLAT DRAIN
	4" PERFORATED DRAINTILE
	6" PERFORATED DRAINTILE
	LIGHT POLE
—— E ——	- ELECTRICAL
w	- WATER
—T	- TELEPHONE

----- IRR ----- IRRIGATION

---- LIMITS OF CONSTRUCTION

NOTES

- 1. NOTES AND LEGEND SHALL APPLY TO ALL SHEETS AND ALL SITES
- 2. CONTRACTOR SHALL BE SOLELY RESPONSIBLE AND MAKE EVERY EFFORT TO LOCATE EXISTING UNDERGROUND UTILITIES. THIS SHALL INCLUDE CONSULTING WITH ALL LOCAL UTILITY COMPANIES AND USING A SIGNAL LOCATOR PRIOR TO EXCAVATION. ANY AND ALL REPAIRS SHALL BE COMPLETED WITHIN 48 HRS. OR THE OWNER SHALL HAVE THE REPAIR WORK COMPLETED AT THE CONTRACTORS EXPENSE.
- 3. TOPSOIL AND SEED ALL AREAS DISTURBED AND NOT OTHERWISE DEVELOPED. ALL WORK I.E. DEMOLITION AND REMOVALS, DRAINAGE WORK, STONE AND ASPHALT, FENCING, TRACK SURFACE, ETC. SHALL BE COMPLETED BY DATE AS NOTED IN CONTRACT DOCUMENTS. ALL LAWN AREAS SHALL SLOPE TO DRAINAGE STRUCTURES.
- 4. ALL CONTOURS AND SPOT GRADES REFER TO FINISH GRADE OF LAWN, ASPHALT, OR CONCRETE. <u>DO</u> NOT FACTOR IN THE ACRYLIC COATING DEPTH.

6 NORTH	0 20 40 80 SCALE: 1"=40"	

At At Bio

PRO 22

A R	CHITECTURE
TMPA	ARCHITECTURE INC 1191 west square lake road
BLOC PH EM	DMFIELD HILLS · MICHIGAN · 48302 I · 248.338.4561 FX · 248.338.0223 · INFO ® TMP-ARCHITECTURE COM
REGISTRA	TION SEAL
NLOIDI IV	
CONSULT	ANT
FÜI	KESTIE
ATHLETIC FAC	Q Q S J G N ILITY PLANNING *SITE PLANNING *
CONSULT 3269 COOLI PH. 248.	ING * LANDSCAPE ARCHITECTURE DGE HWY * BERKLEY, MI 48072 547.7757 * FAX 248.547.0218
WWW.	FORESITEDESIGN.COM
PROJECT	TITLE
Athen	s Hiah School
Athlat	in Einlde
	30K340 NV ()7V
RIG R	auraye nu. uzm
BIO Pa	UKAYE NU. UZA
βια γά	ICRAYE NO. VZA
	ICRAYE NU. VZA
Troy S	chool District
bia Pá Troy S Troy, N	chool District lichigan
DIO Pa Troy S Troy, N DRAWING	chool District lichigan
BIO Pa Troy S Troy, N DRAWING Athletic	chool District lichigan
BIO Pa Troy S Troy, N DRAWING Athletic	chool District lichigan
BIO Pa Troy S Troy, N DRAWING Athletic	chool District lichigan
BIO Pa Troy S Troy, N DRAWING Athletic	chool District lichigan
BIO Pa Troy S Troy, N DRAWING Athletic	chool District Aichigan
BIO Pa Troy S Troy, N DRAWING Athletic	chool District Aichigan
BIO Pa Troy S Troy, N DRAWING Athletic	chool District Aichigan
BIO Pa Troy S Troy, N DRAWING Athletic	chool District Aichigan
BIO Pa Troy S Troy, N DRAWING Athletic	chool District Aichigan
BIQ Pa Troy S Troy, N DRAWING Athletic	chool District Aichigan TITLE CS Grading Plan
BIQ Pa Troy S Troy, N DRAWING Athletic	chool District Aichigan TITLE CS Grading Plan
BIQ Pa Troy S Troy, N DRAWING Athletic	chool District Aichigan TTITLE CS Grading Plan
BIG Pa Troy S Troy, N DRAWING Athletic	chool District Aichigan TITLE CS Grading Plan
BIG Pa Troy S Troy, N DRAWING Athletic	res
BIG Pa Troy S Troy, N DRAWING Athletic	ES
BIG Pa Troy S Troy, N DRAWING Athletic ISSUE DAT	ES
BIG Pa Troy S Troy, N DRAWING Athletic ISSUE DAT	res
BIG Pa Troy S Troy, N DRAWING Athletia ISSUE DAT	chool District /ichigan TITLE cs Grading Plan Fis . .
BIG Pa Troy S Troy, N DRAWING Athletic ISSUE DAT	ES
DIQ Ya Troy S Troy, N DRAWING Athletia ISSUE DAT . <t< td=""><td>Ackage No. 02A chool District Aichigan TITLE CS Grading Plan ES</td></t<>	Ackage No. 02A chool District Aichigan TITLE CS Grading Plan ES
DIQ Ya Troy S Troy, N DRAWING Athletia ISSUE DAT . <t< td=""><td>Chool District Aichigan TITILE CS Grading Plan ES </td></t<>	Chool District Aichigan TITILE CS Grading Plan ES
BIG Pa Troy S Troy, N DRAWING Athletic ISSUE DAT	ES Chool District Aichigan TITLE CS Grading Plan ES CS CS CS CS CS CS CS
DIQ Ya Troy S Troy, N DRAWING Athletia ISSUE DAT . <t< td=""><td>Chool District Aichigan TITTLE CS Grading Plan</td></t<>	Chool District Aichigan TITTLE CS Grading Plan
DIQ Ya Troy S Troy, N DRAWING Athletia ISSUE DAT . <t< td=""><td>rink age no. oza</td></t<>	rink age no. oza

ISSUE DATES	
-------------	--

•	•
•	•
•	•
•	•
	•
•	•
•	•
•	•
•	•
•	•
•	•
11-09-2023	CONS
DATE:	ISSU
DRAWN	JCJ/
CHECKED	Mds
Approved	BSL

I T E C T U R E)
HITECTURE INC St square lake road Hills · Michigan · 48302 38.4561 fX · 248.338.0223 TMP-ARCHITECTURE.COM	
I SEAL	
CANNING *SITE PLANNING * A BERKLEY, MI 48072 7 * FAX 248.547.0218 TEDESIGN.COM	1
ligh School Fields age No. 02A	
ol District igan Tainage Plan	
TRUCTION DOCUMENTS ED FOR: JB/KD	

Troy School District Troy, Michigan DRAWING TITLE Turf Details

ISSU

• • • • • • • • • . 11-09 **DATE:** DRAV CHĘC

22103D

PROJECT NO.

ISSUE DAT	TE S
•	<u>.</u>
•	<u>.</u>
•	
•	- .
•	
•	
	·
•	<u>.</u>
DATE:	ISSUED FOR:
DRAWN	JCJ/JB/KD
CHECKED	Mds
APPROVED	BSL
DDOIECT	

3269 COOLIDGE HWY * BERKLEY, MI 48072 PH. 248.547.7757 * FAX 248.547.0218 WWW.FORESITEDESIGN.COM PROJECT TITLE

EM · INFO © TMP-ARCHITECTURE.COM **REGISTRATION SEAL**

TMP ARCHITECTURE INC 1191 WEST SQUARE LAKE ROAD

ARCHITECTURE

BLOOMFIELD HILLS · MICHIGAN · 48302

PH · 248.338.4561 FX · 248.338.0223

9 GA.-1-3/4" MESH 2-1/2" LINE POSTS SPACED 8'-0" OC. MAX. ON ALL FENCE

(13) TENNIS STEP DOWN FENCE ELEVATION SCALE 3/16"=1'-0"

DRÁWING NO. LD3.02

ISSU

22103D

PROJECT NO.

ISSUE DAT	ES
•	<u>.</u>
•	<u>.</u>
	<u>.</u>
	<u>·</u>
•	
•	·
•	
•	·
•	<u>.</u>
•	<u>.</u>
11-09-2023	CONSTRUCTION DOCUMENTS
DATE:	ISSUED FOR:
DRAWN	JCJ/JB/KD
CHECKED	Mds
Approved	BSL

Troy School District Troy, Michigan DRAWING TITLE Synthetic Turf Fence Details

FORESITE design ATHLETIC FACILITY PLANNING *SITE PLANNING * CONSULTING * LANDSCAPE ARCHITECTURE 3269 COOLIDGE HWY * BERKLEY, MI 48072 PH. 248.547.7757 * FAX 248.547.0218

WWW.FORESITEDESIGN.COM

CONSULTANT

PH · 248.338.4561 FX · 248.338.0223 EM · INFO © TMP-ARCHITECTURE.COM **REGISTRATION SEAL**

TMP ARCHITECTURE INC

1191 WEST SQUARE LAKE ROAD BLOOMFIELD HILLS · MICHIGAN · 48302

3 TURF GRAPHIC REFERENCE DETAIL N.T.S

2 CENTERFIELD LOGO LAYOUT ALTERNATE NO.1 SCALE 1"=10-0"

Troy School District Troy, Michigan DRAWING TITLE Practice Turf Details

ISSU

• • • • • • • • • . 11–09 **DATE:**

DRAW CHEC APPRC PROJECT NO. 22103D

ISSUE DAT	ES
•	
•	
•	·
•	
•	
•	
•	
•	·
•	
•	·
•	•
11-09-2023	CONSTRUCTION DOCUMENTS
DATE:	ISSUED FOR:
DRAWN	JCJ/JB/KD
CHECKED	Mds
Approved	BSL

1191 WEST SQUARE LAKE ROAD Bloomfield Hills • Michigan • 48302 PH • 248.338.4561 FX • 248.338.0223 EM • INFO © TMP-ARCHITECTURE.COM

REGISTRATION SEAL

ARCHITECTURE

TMP ARCHITECTURE INC

FIELD LAYOUT NOTES:

- 1. CONTRACTOR SHALL VERIFY ALL DIMENSIONS. ALL LINE WORK IS TO BE LAID OUT WITH A TOLERANCE OF 1/4 INCH.
- 2. ALL YARDLINES SHALL BE 4 INCH, WHITE TUFTED TURF, REFER TO DETAIL 5. 3. A 1 FOOT (12 INCH) WHITE, TUFTED SIDELINE WILL SURROUND THE ENTIRE PLAYING FIELD.
- 4. 24 INCH SHORT YARDLINE MARKS, 4 INCHES FROM THE SIDELINES SHALL BE 4 INCHES WIDE, WHITE, TUFTED LINES. REFER TO DETAIL 6.
- 5. THE TWO INBOUNDS LINES ARE 53 FEET 4 INCHES FROM THE SIDELINES. INBOUNDS LINES AND SHORT YARDLINE EXTENSIONS SHALL BE 24 INCHES LONG AND 4 INCHES WIDE, INLAID - INBOUND ONLY. REFER TO DETAIL 5.
- 6. THE EXTRA POINT LINES ARE 6 FEET LONG, 4 INCHES WIDE, WHITE TUFTED LINES AT THE CENTERLINE OF THE FIELD AND THE 3 YARDLINE ON EACH END OF THE FIELD. REFER TO PLAN FOR LOCATION. 7. INLAID WHITE "GETTYSBURG" YARDLINE NUMBERS AND DIRECTIONAL ARROWS MEASURING 6 FEET IN HEIGHT AND
- 4 FEET IN WIDTH TO THE OUTSIDE OF THE <u>WHITE</u> SHALL BE 21 FEET FROM THE SIDELINE TO THE BOTTOM OF THE NUMBER. REFER TO DETAIL 2.
- 8. AN "X" WILL MARK THE SPOT OF THE KICKOFF AT THE 40 YARDLINE ON EACH END OF THE FIELD AND SHALL BE DIMENSIONED AS PER DETAIL 3. THE 40 YARDLINE IS WHITE TUFTED TURF AND THE EXTENSIONS TO FORM THE X ARE INLAID WHITE.

DRA Fo Det

22103D

ISSU •

• • • . 11–09 **DATE:** DRAV CHEC APPRO _____ PRO

Troy S	chool District lichigan	
Footba		
Details		
ISSUE DAT	ES	
144 4 2111		
• •		
•		
•		
•	•	
•		
•	•	
•		
11-09-2023	CONSTRUCTION DOCUMENTS	
DATE:	ISSUED FOR:	
DRAWN	JCJ/JB/KD	
CHĘCKĘD	Mds	
APPROVED	BSL	
PROJECT NO.		

PROJECT TITLE **Athens High School** Athletic Fields Bid Package No. 02A

FORESITE design ATHLETIC FACILITY PLANNING *SITE PLANNING * CONSULTING * LANDSCAPE ARCHITECTURE 3269 COOLIDGE HWY * BERKLEY, MI 48072 PH. 248.547.7757 * FAX 248.547.0218 WWW.FORESITEDESIGN.COM

EM · INFO © TMP-ARCHITECTURE.COM **REGISTRATION SEAL**

TMP ARCHITECTURE INC

1191 WEST SQUARE LAKE ROAD

BLOOMFIELD HILLS · MICHIGAN · 48302

PH · 248.338.4561 FX · 248.338.0223

SCALE 1"=30'-0"

SOCCER NOTES

- 1. CONTRACTOR SHALL VERIFY ALL DIMENSIONS. ALL LINE WORK SHALL BE LAID OUT WITH A TOLERANCE OF 1/4 INCH.
- 2. ALL SOCCER LINES ARE 4 INCH YELLOW INLAID TURE AS DIMENSIONED ON THE SOCCER LAYOUT PLAN.
- 3. THE SOCCER GOAL AREA IS 18' X 60', REFER TO PLAN FOR LOCATION. THE SOCCER PENALTY AREA IS 54' X 132', REFER TO PLAN FOR LOCATION.
- 4. THE PENALTY MARK IS AN INLAID YELLOW LINE, 24" IN LENGTH, 4" WIDE, 36' FROM GOAL LINE AND CENTERED ON THE GOAL. THE RESTRAINING LINE FOR PENALTY KICKS IS AN ARC 30' FROM THIS MARK OUTSIDE OF THE PENALTY AREA. REFER TO THE PLAN FOR LOCATION.
- 5. THE HALFWAY LINE FOR THE SOCCER FIELD IS A 4" YELLOW LINE WITH A CIRCLE 30' IN RADIUS IN THE CENTER OF THE FIELD, REFER TO THE PLAN FOR LOCATION. THE 50 YARDLINE OF THE FOOTBALL FIELD SHALL BE WHITE AND DOMINANT AS SHOWN ON THE FOOTBALL LAYOUT PLAN AND THE SOCCER LINE WILL EXTEND BEYOND THE FOOTBALL SIDELINES.
- 6. THE CORNERS OF THE SOCCER FIELD SHALL HAVE A 3' ARC RADIUS IN YELLOW DESIGNATING THE CORNER KICK AREA. REFER TO DETAIL #4, THIS SHEET.
- 7. THE CENTER KICK-OFF CIRCLE IS A 9" DIAMETER CIRCLE, INLAID YELLOW. REFER TO DETAIL #3, THIS SHEET.

3 CENTER CIRCLE DETAIL SCALE 1"=16'-0"

Troy, Michigan drawing title Soccer Details

22103D

PROJECT NO.

ES
•
•
·
· ·
·
•
·
CONSTRUCTION DOCUMENTS
ISSUED FOR:
JCJ/JB/KD
Mds
BSL

WWW.FORESITEDESIGN.COM

CONSULTANT

EM · INFO @ TMP-ARCHITECTURE.COM **REGISTRATION SEAL**

ARCHITECTURE

TMP ARCHITECTURE INC

1191 WEST SQUARE LAKE ROAD BLOOMFIELD HILLS · MICHIGAN · 48302

PH · 248.338.4561 FX · 248.338.0223

MEN'S LACROSSE LAYOUT NOTES:

- 1. CONTRACTOR SHALL VERIFY ALL DIMENSIONS.
- 2. ALL LINE WORK IS TO BE LAID OUT WITH A TOLERANCE OF 1/4 INCH.
- 3. ALL LACROSSE LINES ARE TO BE 2 INCHES WIDE INCLUDING THE GOAL LINE.
- 4. THE MEN'S LACROSSE GOAL AREA IS A 9 FOOT RADIUS CIRCLE WITH A 6 FOOT GOAL LINE IN THE CENTER. REFER TO DETAIL 2.
- 5. THE MEN'S LINES SHALL BE INLAID ROYAL BLUE IN COLOR AND DOMINANT OVER WOMEN'S LACROSSE MARKINGS.

NOTE: ALL LINES 2" THICK EXCEPT CENTER FEILD LINE WHICH SHALL BE 4" THICK

WOMEN'S LACROSSE LAYOUT NOTES:

- 1. CONTRACTOR SHALL VERIFY ALL DIMENSIONS.
- 2. ALL LINE WORK IS TO BE LAID OUT WITH A TOLERANCE OF 1/4 INCH.
- 3. ALL LACROSSE LINES ARE TO BE 2 INCHES WIDE INCLUDING THE GOAL LINE. 4. THE WOMEN'S LACROSSE GOAL AREA IS AN 8'-6" RADIUS CIRCLE WITH A 6 FOOT GOAL LINE IN THE CENTER. THE 8 METER ARC HAS A RADIUS OF 34'-10" FROM THE CENTER OF THE GOAL LINE WITH 1 FOOT HASH MARKS 13'-2" APART AND EQUADISTANT FROM EACH OTHER. THE 12 METER FAN IS A 47-9" RADIUS CIRCLE FROM THE CENTER OF THE GOAL LINE. REFER TO DETAIL #3, THIS SHEET.
- 5. THE WOMEN'S LINES SHALL BE INLAID RED IN COLOR.

MEN'S LACROSSE GOAL AREA SCALE 3/16"=1'-0"

22

AR	CHITECTURE
	ARCHITECTURE INC
BLOC PH EM	DMFIELD HILLS · MICHIGAN · 48302 I · 248.338.4561 FX · 248.338.0223 · INFO © TMP-ARCHITECTURE.COM
REGISTRA	TION SEAL
CONSULT	۸
CONSULI	
FUI	KESLIE desian
ATHLETIC FAC CONSULT	CILITY PLANNING *SITE PLANNING * ING * LANDSCAPE ARCHITECTURE
3269 СООL] РН. 248. WWW	DGE HWY * BERKLEY, MI 48072 547.7757 * FAX 248.547.0218 FORESITEDESIGN.COM
PROIECT 7	ſĬŢĹĔ
Athen	s Hiah School
Δthlot	in Fiolds
	a c k a a a N a A 2 A
	ACRAYC NU. VZA
	V
	Ū
	J
Troy S	chool District
Troy S Troy, N	chool District <i>I</i> ichigan
Troy S Troy, N DRAWING	chool District Aichigan
Troy S Troy, N DRAWING Lacros	chool District Aichigan
Troy S Troy, N DRAWING Lacros	chool District /ichigan
Troy S Troy, N DRAWING Lacros	chool District /ichigan
Troy S Troy, N DRAWING Lacros	chool District Aichigan
Troy S Troy, N DRAWING Lacros	chool District Aichigan
Troy S Troy, N DRAWING Lacros	chool District Aichigan
Troy S Troy, N DRAWING Lacros	chool District <u>Aichigan</u>
Troy S Troy, N DRAWING Lacros	chool District Aichigan
Troy S Troy, N DRAWING Lacros	chool District <u>/ichigan</u> TITLE Se Details
Troy S Troy, N DRAWING Lacros	chool District <u>Aichigan</u>
Troy S Troy, N DRAWING Lacros	chool District Aichigan
Troy S Troy, N DRAWING Lacros	chool District Aichigan
Troy S Troy, N DRAWING Lacros	rintle Se Details
Troy S Troy, N DRAWING Lacros	res
	res
Troy S Troy, N DRAWING Lacros ISSUE DAT . <td>TITLE SSE Details</td>	TITLE SSE Details
Troy S Troy, N DRAWING Lacros ISSUE DAT . <td>rinchigan TITLE Se Details TES </td>	rinchigan TITLE Se Details TES
Troy S Troy, N DRAWING Lacros ISSUE DAT . <td>TITLE SSE Details</td>	TITLE SSE Details
Troy S Troy, N DRAWING Lacros ISSUE DAT . <td>rinchigan TITILE SSE Details FES </td>	rinchigan TITILE SSE Details FES
Troy S Troy, N DRAWING Lacros ISSUE DAT . <td>rtintle sse Details</td>	rtintle sse Details
Troy S Troy, N DRAWING Lacros ISSUE DAT . <td>Chool District Aichigan TITLE See Details TES</td>	Chool District Aichigan TITLE See Details TES

CONSULTANT

ATHLETIC FACILITY PLANNING *SITE PLANNING * CONSULTING * LANDSCAPE ARCHITECTURE

Site Details

_____ PRO

• • . 11-09 **DATE:** DRAW

JECT	NO,	

·
•
•
CONSTRUCTION DOCUMENTS
ISSUED FOR:
JCJ/JB/KD
Mds

ISSUE DATES

design

3269 COOLIDGE HWY * BERKLEY, MI 48072 PH. 248.547.7757 * FAX 248.547.0218

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

ARCHITECTURE

DRA Pr Net

PRO 22

CONSULTA	NT
ATHLETIC FAC CONSULTI 3269 COOLI PH. 248. WWW.	EXAMPLE 1 A Constraint of the second state o
PROJECT T Athens Athlet Bid Pa	TTLE S High School ic Fields Ackage No. 02A
Troy S Troy, N	chool District Iichigan
Protec Netting	tive Details
ISSUE DAT	ES
	·
•	•
•	·
·	·
	·
· ·	·
DATE:	ISSUED FOR:
DRAWN	JCJ/JB/KD
CHĘCKĘD	Mds
Approved	BSL
project n 2210	10. 3D

EM · INFO © TMP-ARCHITECTURE.COM **REGISTRATION SEAL**

PH · 248.338.4561 FX · 248.338.0223

TMP ARCHITECTURE INC 1191 WEST SQUARE LAKE ROAD BLOOMFIELD HILLS · MICHIGAN · 48302

ARCHITECTURE

ELECTRICAL SYMBOL LIST (NOTE: SOME SYMBOLS AND ABBREVIATIONS SHOWN MAY NOT APPLY TO THIS PROJECT)

<u>SYMBOL</u>	DESCRIPTION	SYMBOL	DESCRIPTI
X (NL)	X DENOTES FIXTURE TYPE (NL INDICATES NIGHT LIGHT)	TWC	TWO-WAY CALL STA
	LIGHTING FIXTURE	TWCD	TWO-WAY AUTO DIAI
	DIRECT/INDIRECT LIGHTING FIXTURE	TWCA	
	FILL DENOTES EMERGENCY FIXTURE		
	LIGHTING FIXTURE	TWCP	POWER SU
⊢ <u>∙</u> i∕+O	WALL MOUNTED LIGHTING FIXTURE	TWCDP	TWO-WAY POWER SL
\circ / \Box	LIGHTING FIXTURE	RGP	REMOTE G
$\langle \bigcirc / \Box \rangle$	DIRECTIONAL LIGHTING FIXTURE	ATS	AUTOMATI
\odot	PENDANT LIGHTING FIXTURE	UPS	UNINTERR
\bigcirc	WALL SCONCE		LOW VOLT
	LIGHTING TRACK	CSX	"X" INDIC/
\bigtriangledown	TRACK LIGHTING FIXTURE	ϕ / ϕ " _{γ"}	SINGLE /
• —	POLE MOUNTED LIGHTING FIXTURE	· / ·· ^	"X" INDIC/
	POLE MOUNTED LIGHTING FIXTURE - POST TOP	9\Q	SINGLE/DU BY AUTON
\odot	BOLLARD LIGHTING FIXTURE	8	QUAD REC
\mathbf{A}	EMERGENCY LIGHTING UNIT	"	ABOVE CO
	EXIT LIGHTING FIXTURE WITH DIRECTIONAL ARROWS (SHADED AREA INDICATES FACE)	₩	EMERGENO
	EXIT LIGHTING FIXTURE WITH DIRECTIONAL ARROWS (SHADED AREA INDICATES FACE)	Щ	DUPLEX G RECEPTAC
ΗX	EXIT LIGHTING FIXTURE - WALL MOUNTED		DEAD FRC
H	EXIT/EMERGENCY LIGHTING COMBO	•	DUPLEX E
BCELTS	BRANCH CIRCUIT EMERGENCY LIGHTING TRANSFER SWITCH	\$	DUPLEX T
	LIGHTING CONTROL DEVICE - REFER TO		QUAD TAN
	ROOM CONTROL DESIGNATION - REFER TO	4	DUPLEX U
	LIGHTING CONTROL SCHEDULE	\\$	DUPLEX R
5	TWO DOLE TOCCLE SWITCH	YF	4 PORT U
32 S3		\mathbb{A}	
53		Ψ/Φ	CEILING M
Ŭ-			POWER PO
K3	3 WAY KEY OPERATED SWITCH	$\hat{\mathbf{x}} / \hat{\mathbf{x}}$	WALL/CEIL
K4	4 WAY KEY OPERATED SWITCH	1 / V	– REFER
D	DIMMER SWITCH	$\Phi \Phi \Phi$	MULTI-OU
D3	3 WAY DIMMER SWITCH	$\langle \bullet \rangle$	MULTI-SEI
Do	DIMMER OCCUPANCY SENSOR SWITCH	⊥ " χ "	SEE ELEC
DL	LOW VOLTAGE DIMMER SWITCH		POKE-THF
Sp	PILOT SWITCH		"X" INDICA
		FBX	FLOOR SE "X" INDIC/
			ACCESS F

YMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
TWC	TWO-WAY COMMUNICATION SYSTEM CALL STATION	CP	CONTROL PANEL		SECURITY CAMERA	F	MANUAL FIRE ALARM BOX
TWCD	TWO-WAY COMMUNICATION SYSTEM	\swarrow	MOTOR	MD	MOTION DETECTOR	SD	SMOKE DETECTOR
		VFC	VARIABLE FREQUENCY CONTROLLER.	K	SECURITY KEY SWITCH	DD	DUCT SMOKE DETECTOR
TWCA	ANNUNCIATOR & COMMUNICATION PANEL			DC	DOOR CONTACT	CO	CARBON MONOXIDE DETECTOR
TWCP	TWO-WAY COMMUNICATION SYSTEM POWER SUPPLY WITH BATTERY BACK-UP		COMBINATION MAGNETIC CONTROLLER	KP	KEY PAD	RT	REMOTE TEST STATION (FOR DUCT DETECTOR)
TWCDP	TWO-WAY COMMUNICATION SYSTEM AUTO DIALER		NON-FUSIBLE DISCONNECT SWITCH	CR	CARD READER	TD	THERMAL DETECTOR
	POWER SUPPLY WITH BATTERY BACK-UP		FUSIBLE DISCONNECT SWITCH	DB	DURESS PUSH BUTTON STATION		PROJECTED BEAM DETECTOR
RGP	REMOTE GENERATOR ANNUCIATOR PANEL	 CB⊣	ENCLOSED CIRCUIT BREAKER	DE	DELAYED EGRESS	FO	FIRE ALARM BELL
AIS	AUTOMATIC TRANSFER SWITCH		PUSH BUTTON STATION	REX	REQUEST TO EXIT STATION	F	FIRE ALARM AUDIBLE NOTIFICATION APPLIANCE
	LOW VOLTAGE CONTROL STATION		JUNCTION BOX	PP	AUTOMATIC DOOR PUSH PAD OPERATOR		FIRE ALARM VISUAL NOTIFICATION APPLIANCE
CSX	"X" INDICATES TYPE	\bigcirc	HARD WIRE POWER CONNECTION		DOOR OPFRATOR	× XX	IF NO RATING SHOWN, APPLIANCE IS 15cd
)∕	SINGLE / DUPLEX RECEPTACLE OUTLET "X" INDICATES TYPE	\bigcirc	GROUND ROD		DOOR ACTUATOR	\square	FIRE ALARM COMBINATION VISUAL/ AUDIBLE
S ∕db	SINGLE/DUPLEX RECEPTACLE OUTLET CONTROLLED		GROUND CONNECTION	AC	ACCESS CONTROL STATION	XX	XXX" INDICATES CANDELA RATING IF NO RATING SHOWN, APPLIANCE IS 15cd
₩	BY AUTOMATIC CONTROL DEVICE/SYSTEM			ACCP	ACCESS CONTROL CONTROL PANEL		FIRE ALARM COMBINATION VISUAL / AUDIBLE
\mathbb{A}	QUAD RECEPTACLE OUTLET		CONDUIT SI FEVE WITH BUSHINGS	ACPS	ACCESS CONTROL POWER SUPPLY	-(F)- XX	NOTIFICATION APPLIANCE – CEILING MOUNTED
	FOR TAMPER RESISTANT, CONTROLLED, QUADS,	X	LENGTH AS REQUIRED	<u>~</u>			IF NO RATING SHOWN, APPLIANCE IS 15cd
ф	DUPLEX GROUND FAULT CIRCUIT INTERRUPTER	0	CONDUIT UP		CIRCUIT BREAKER	-Ò- _{XX}	FIRE ALARM VISUAL NOTIFICATION APPLIANCE
	RECEPTACLE OUTLET	٠	CONDUIT DOWN		DRAWOUT CIRCUIT BREAKER MANUALLY/ OPERATED	/ \ \	"XX" INDICATES CANDELA RATING
	DEAD FRONT GROUND FAULT CIRCUIT INTERRUPTER	\triangleleft	EMPTY BOX FOR FUTURE) *		\bigcirc	FIRE ALARM ALIDIRLE NOTIFICATION APPLIANCE
•	DUPLEX EMERGENCY RECEPTACLE OUTLET	1	ABOVE COUNTER EMPTY BOX FOR	E		(F)	CEILING MOUNTED
\Diamond	DUPLEX TAMPER RESISTANT RECEPTACLE OUTLET	\downarrow	FUTURE TELECOMMUNICATION OUTLET	°∕ ↓	ELECTRICALLY OPERATED		FIREFIGHTERS PHONE JACK
	QUAD TAMPER RESISTANT RECEPTACLE OUTLET	\bigcirc	EMPTY BOX FOR FUTURE CEILING MOUNTED TELECOMMUNICATION OUTLET	REFER TO	SWITCH		
₩	DUPLEX UPS RECEPTACLE OUTLET		TELECOMMUNICATION OUTLET		AUTOMATIC OR MANUAL TRANSFER SWITCH		
₩	DUPLEX RECEPTACLE OUTLET WITH 2 USB PORTS	X	ABOVE COUNTER TELECOMMUNICATION				
	4 PORT USB CHARGING STATION	×	OUTLET "X" INDICATES TYPE			NAC	EXTENDER PANEL
)/®)	CFILING MOUNTED DUPLEX /OUAD RECEPTACLE OUTLET		TELECOMMUNICATION CEILING MOUNTED			IM	ADDRESSABLE MONITORING MODULE
		\mathfrak{G}_{χ}	OUTLET X INDICATES TYPE			СМ	ADDRESSABLE CONTROL MODULE
					PANELBOARD	TS	TAMPER SWITCH
×/ W	- REFER TO ELECTRICAL STANDARD SCHEDULES				"X" INDICATES PANELBOARD NAME	FS	FLOW SWITCH
$\phi \phi$	MULTI-OUTLET SURFACE RACEWAY					DR	MAGNETIC DOOR RELEASE
	MULTI-SERVICE DROP			⊥			
⊥ " X "	SEE ELECTRICAL DETAILS AND DIAGRAMS SHEET "X" INDICATES TYPE	(S)	SPEAKER				
PTX	POKE-THROUGH ASSEMBLY "X" INDICATES TYPE	H(S)	SPEAKER - WALL MOUNTED				
FBX	FLOOR SERVICE FITTING		MICROPHONE				
	"X" INDICATES TYPE ACCESS FLOOR SERVICE FITTING		VOLUME CONTROL/STATION SELECTOR	<u>EMU</u>			
AFX	"X" INDICATES TYPE	BO	SIGNALING BELL	(A)			
RX	"X" INDICATES TYPE	(L)	SINGLE FACE CLOCK - CEILING MOUNTED				
s s	DUAL SWITCHING FOR INNER/OUTER LAMPS	ΗΥ	SINGLE FACE CLOCK - WALL MOUNTED	AS	AMMETER SWITCH		
	3_WAY DILAL SWITCHING FOR INNER /OUTER	B	DOUBLE FACE CLOCK - CEILING MOUNTE	ED VS	VULIMETER SWITCH		
5353	LAMPS OF FLUORESCENT LIGHT FIXTURES	S	DOUBLE FACE COMBINATION CLOCK/SPE	AKER	SURGE PROTECTIVE DEVICE		
5454	4-WAY DUAL SWITCHING FOR INNER/OUTER	G	CEILING MOUNTED				
Ст		R	DOUBLE FACE CLOCK - WALL MOUNTED				
	DIGITAL TIME SWITCH	S	DOUBLE FACE COMBINATION CLOCK/SPE	AKER	PHASE RUTATION MONITOR		
Sı	ILLUMINATED TOGGLE SWITCH FOR CONTROL OF LIGHTING ON CRITICAL POWER-ILLUMINATED	Ð	WALL MOUNTED		CAMLOK - MALE		
	WHEN SWITCH IS IN "OFF" POSITION	T/C	TIME CLOCK	\bigcirc	CAMLOK - FEMALE		
SL	LOW VOLTAGE SWITCH	С	CONTACTOR		THERMAL OVERLOAD RELAY		
So	OCCUPANCY SENSOR REFER TO ELECTRICAL STANDARD SCHEDULES	P	PHOTOCELL		NORMALLY OPEN CONTACTS		
S02	OCCUPANCY SENSOR	TT	TWIST TIMER		NORMALLY CLOSED CONTACTS		
os x	"X" INDICATES TYPE	EVSE	ELECTRICAL VEHICLE SUPPLY EQUIPMENT	- <u> </u>	N.O. PUSH BUTTON SINGLE CIRCUIT		
		DCFC	DC FAST CHARGER - STANDALONE	$\circ \mid \circ$	N.C. PUSH BUTTON SINGLE CIRCUIT		
		DCPM	DC FAST CHARGER - POWER MODULE	x−x	"X-X" INDICATES TYPE		
		DCDP	DC FAST CHARGER - DISPENSER		BRANCH CIRCUIT PANELBOARD		
					LOAD CENTER		
					MOTOR CONTROL CENTER		
					TRANSFORMER		
					DISTRIBUTION PANEL		

ELECTRICAL GROUNDING BUS BAR

PLUG IN BUSWAY

FEEDER BUSWAY

⊢GB-

⊢-PB--

├── FB ─┤

STANDARD MOUNTING HEIGHTS

ELECTRICAL DRAWING INDEX

<u>SHEET NO.</u>	SHEET TITLE
E0.1	ELECTRICAL STANDARDS AND DRAWING INDEX
E0.2	ELECTRICAL STANDARD SCHEDULES
E0.3	ELECTRICAL SITE PLAN
E5.1	ONE LINE DIAGRAM

ELECTRICAL ABBREVIATION LIST

ABBREVIATION A AER AF AFCI A.F.F. AIC AL ALCR AR AT ATS	DESCRIPTION AMPERES ARC ENERGY REDUCTION AMPERES FRAME (BREAKER RATING) ARC FAULT CIRCUIT INTERRUPTER ABOVE FINISH FLOOR AMPS INTERRUPTING CAPACITY AUDIENCE LEFT AUTOMATIC LOAD CONTROL RELAY AUDIENCE RIGHT AMPERES TRIP (BREAKER SETTING) AUTOMATIC TRANSFER SWITCH	ABBREVIATION G/GRD/EG GFCI GFP HOA HP HV HZ IG JB	DESCRIPTION GROUND GROUND FAULT CIRCUIT INTERRUPTER GROUND FAULT PROTECTION HAND-OFF-AUTO HORSEPOWER HIGH VOLTAGE HERTZ ISOLATED GROUND JUNCTION BOX	ABBREVIATION OC OFCI OFOI P PB PH PT PDP	DESCRIPTION ON CENTER OWNER FURNISHED, CONTRACTOR INSTALLED OWNER FURNISHED, OWNER INSTALLED POLE PUSHBUTTON STATION PHASE POTENTIAL TRANSFORMER POWER DISTRIBUTION PANEL
AUX BCELTS BKR	AUXILIARY BRANCH CIRCUIT EMERGENCY LIGHTING TRANSFER SWITCH BREAKER	KA KV KVA KW KWH	THOUSAND AMP KILOVOLT KILOVOLT – AMPERES KILOWATT KILOWATT – HOURS	RECEPT. RDP RP RSC	RECEPTACLE RECEPTACLE DISTRIBUTION PANEL RECEPTACLE PANEL RIGID STEEL CONDUIT
C CB CFCI	CONDUIT CIRCUIT BREAKER CONTRACTOR FURNISHED, CONTRACTOR INSTALLED	LA LP LDP MAX	LIGHTNING ARRESTOR LIGHTING PANEL LIGHTING DISTRIBUTION PANEL MAXIMUM	SCCR SCHED SPD ST SW	SHORT CIRCUIT CURRENT RATING SCHEDULE SURGE PROTECTION DEVICE SHUNT TRIP SWITCH
CKT CT DEMO DIM DISC	CIRCUIT CURRENT TRANSFORMER DEMOLITION DIMENSION DISCONNECT	MCA MCB MCC MDP MECH	MINIMUM CIRCUIT AMPACITY MAIN CIRCUIT BREAKER MOTOR CONTROL CENTER MAIN DISTRIBUTION PANEL MECHANICAL	SWBD SWGR TB TELECOM TR	SWITCHBOARD SWITCHGEAR TERMINAL BOX TELECOMMUNICATIONS TAMPER RESISTANT
DISC DP DS DWG FBU	DISCONNECT DISTRIBUTION PANEL DOWNSTAGE DRAWING EMERGENCY BATTERY LINIT	MIN MISC. MLO MOP	MINIMUM MISCELLANEOUS MAIN LUGS ONLY MAXIMUM OVERCURRENT PROTECTION	ttb Typ U.o.n. Us	TELEPHONE TERMINAL BACKBOARD TYPICAL UNLESS OTHERWISE NOTED UPSTAGE
EC ECM ELEC EM/ EMERG EMT	ELECTRICAL CONTRACTOR ELECTRONICALLY COMMUTATED MOTOR ELECTRICAL EMERGENCY ELECTRICAL METALLIC TUBING ELECTRICAL METALLIC TUBING	MTD MTG MTR N NC NEC	MOUNTED MOUNTING MOTOR NEUTRAL NORMALLY CLOSED NATIONAL ELECTRICAL CODE	V W WAP WG WP	VOLTS WIRE OR WATTS WIRELESS ACCESS POINT WIRE GUARD WEATHERPROOF
EO EPO EWC EXIST FA	ELECTRICALLY OPERATED EMERGENCY POWER OFF ELECTRIC WATER COOLER EXISTING FIRE ALARM	NEC NF NIC NL NO	NATIONAL ELECTRICAL CODE NON-FUSIBLE NOT IN CONTRACT NIGHT LIGHT NORMALLY OPEN	WR XFMR XP (F)	WEATHER RESISTANT TRANSFORMER EXPLOSION PROOF
FLA FLR FOH FSEC FU	FULL LOAD AMPS FLOOR FRONT OF HOUSE FOOD SERVICE EQUIPMENT CONTRACTOR FUSE	NIS	NUT TU SCALE	(R)	RELOCATED

STANDARD METHODS OF NOTATION

NOTE: SOME SYMBOLS AND ABBREVIATIONS SHOWN MAY NOT APPLY TO THIS PROJECT.

			COPPER CON	DUCTORS			KEYED						
	WIRE (AWG OI	SIZE R KCMIL)		CONDUI	T SIZE								
FE OVERCURRENT DEVICE RATING (AMPERES) (AMPERES) (25-30 35-40 45-50 60 70 60 70 80 90-100 10 10 110 125 150 110 125 150 175 200 225 250 300 350	PHASE & NEUTRAL	GROUND	SINGLE PHASE 2 WIRE+G (1PH, 1N, 1G, 2PH, 1G)	SINGLE PHASE 3 WIRE+G (2PH, 1N, 1G)	THREE PHASE 3 WIRE+G (3PH, 1G)	THREE PHASE & NEUTRAL 4 WIRE+G (3PH, 1N, 1G)							
15–20	12	12	3/4"	3/4"	3/4"	3/4"							
25-30	10	10	3/4"	3/4"	3/4"	3/4"							
35–40	8	10	3/4"	3/4"	3/4"	3/4"							
45–50	8 (6)	10	3/4"	3/4"	3/4"	3/4"	1						
60	6 (4)	10	3/4" (1")	3/4" (1")	3/4" (1")	1" (1 1/4")	1						
70	4	8	1"	1 1/4"	1 1/4"	1 1/4"							
80	4 (3)	8	1"	1 1/4"	1 1/4"	1 1/4"	1						
90–100	3 (2)	8	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1						
110	2 (1)	6	-	1 1/4"	1 1/4"	1 1/4" (1 1/2")	1						
125	1 (1/0)	6	-	1 1/4" (1 1/2")	1 1/4" (1 1/2")	1 1/2"	1						
150	1/0	6	-	1 1/2"	1 1/2"	1 1/2"							
175	2/0	6	-	2"	2"	2"							
200	3/0	6	-	2"	2"	2 1/2"							
225	4/0	4	-	2"	2"	2 1/2"							
250	250	4	-	2 1/2"	2 1/2"	2 1/2"							
300	350	4	-	2 1/2"	2 1/2"	3"							
350	500	3	-	3"	3"	3"							
400	500	3	-	3"	3"	3"							

1. CONTRACTOR TO SIZE FEEDERS AND BRANCH CIRCUITS BASED ON THIS SCHEDULE AND OVER CURRENT DEVICE SIZE, UNLESS NOTED OTHERWISE. 2. CONTRACTOR MAY COMBINE 20A CIRCUITS AS NOTED IN SPECIFICATION. 3. CONDUCTORS ARE BASED ON THHN/THWN UP TO AND INCLUDING #4/0. LARGER THAN #4/0 ARE BASED ON TYPE XHHW. 4. CONDUIT SIZES ARE VALID FOR EMT OR RGS. CONDUIT SIZES SHALL BE ADJUSTED AS REQUIRED FOR OTHER TYPES OF CONDUIT.

5. ELECTRICAL CONTRACTOR TO COORDINATE WITH MECHANICAL CONTRACTOR AND PROVIDE REQUIRED WIRE SIZES TO ACCOMMODATE MECHANICAL EQUIPMENT LUG SIZES.

6. SIZE OF DISCONNECT SWITCH LOCATED AT EQUIPMENT SHALL BE SIZED BASED UPON OVERCURRENT PROTECTION OF THAT DEVICE. 7. OBTAIN APPROVAL FROM ENGINEER PRIOR TO INSTALLING DIFFERENT SIZE/QUANTITY OF CONDUCTORS TO OBTAIN AN EQUIVALENT AMPACITY. 8. SPLICE FROM ALUMINUM TO COPPER PRIOR TO ENTERING EQUIPMENT LISTED FOR USE WITH COPPER CONDUCTORS ONLY OR USE COPPER CONDUCTORS FOR THE ENTIRE LENGTH OF FEEDER.

<u>KEYED NOTES:</u> 1. CONDUCTORS ARE BASED ON 90°C, 600V. INSULATED WIRE APPLIED AT 75°C FOR TERMINATION RATED 60/75°C OR 75°C. FOR TERMINATION RATED AT 60°C, USE CONDUCTORS AND CONDUIT SIZES INDICATED IN PARENTHESES.

OUTDOOR POWER PEDESTAL DETAIL NO SCALE

NOTES:

- 1. INSTALL POWER PEDESTAL PER MANUFACTURER'S REQUIREMENTS. 2. PROVIDE PRECAST CONCRETE BASE AS MANUFACTURED BY
- NORTHERN CONCRETE PIPE, INC. OR APPROVED EQUAL. 3. CONCRETE REINFORCEMENTS SHALL BE BARE, ZINC GALVANIZED, OR ELECTRICALLY CONDUCTIVE COATED STEEL. BOND ALL CONCRETE
- REINFORCEMENTS AND ANCHOR BOLTS TOGETHER SO THAT SYSTEM IS ELECTRICALLY CONTINUOUS.

UNDERGROUND CONDUIT DETAIL NO SCALE

NOTES:

1. QUANTITY AND CONFIGURATION OF DUCTS SHALL BE AS SHOWN ON PLAN DRAWINGS. 12" MINIMUM SEPARATION SHALL BE MAINTAINED BETWEEN ELECTRICAL AND COMMUNICATIONS DUCTS.

		RACEWAY / CONDUCTOR / CABLE AF	PL			ON	S	CHE	EDI	JLE				
Proof Control Control <thcontrol< th=""> <thcontrol< th=""> <thcon< td=""><td></td><td></td><td>W</td><td colspan="4">WRE RACEWA</td><td>EWAY</td><td>,</td><td></td><td></td><td colspan="3">CABLE/CORD</td></thcon<></thcontrol<></thcontrol<>			W	WRE RACEWA				EWAY	,			CABLE/CORD		
EXPOSED, SURFACE MOUNTED TO STRUCTURE X			COPPER, TYPE THHN/THWN-2	СОРРЕК, ТҮРЕ ХННМ-2	ELECTRICAL METALLIC TUBING (EMT)	INTERMEDIATE METAL CONDUIT (IMC)	RIGID STEEL CONDUIT (RSC)	PVC COATED RIGID STEEL CONDUIT	RIGID NON-METALLIC CONDUIT (RNC) TYPE EPC-40	RIGID NON-METALLIC CONDUIT (RNC) TYPE EPC-80	HIGH DENSITY POLYETHYLENE (HDPE) SCHEDULE 40	HIGH DENSITY POLYETHYLENE (HDPE) SCHEDULE 80	METAL CLAD TYPE CABLE WITH INSULATED GROUND WRE (TYPE MC)	POWER LIMITED CABLE
BeroseD, with PREESTANDING SUPPORT I X <thx< th=""> X X</thx<>		EXPOSED, SURFACE MOUNTED TO STRUCTURE		x		x	x	x						
Page CONCEALED IN RETAINING WALL OR SMILAR ELEMENT I X <thx< th=""> X X X</thx<>	RIOR	EXPOSED, WITH FREESTANDING SUPPORT		Х		x	х	x						
BELOW PARKING LOTS AND ROADWAYS I <t< td=""><td>EXTEF</td><td>CONCEALED IN RETAINING WALL OR SIMILAR ELEMENT</td><td></td><td>X</td><td></td><td></td><td>X</td><td>X</td><td>X</td><td>Х</td><td></td><td></td><td></td><td></td></t<>	EXTEF	CONCEALED IN RETAINING WALL OR SIMILAR ELEMENT		X			X	X	X	Х				
BELOW CREEN SPACE X		BELOW PARKING LOTS AND ROADWAYS		X				X		X		X		
Here Within 5' OF FOUNDATION WALL X <t< td=""><td>EDERS</td><td>BELOW GREEN SPACE</td><td></td><td>X</td><td></td><td></td><td></td><td>X</td><td>X</td><td></td><td>Х</td><td></td><td></td><td></td></t<>	EDERS	BELOW GREEN SPACE		X				X	X		Х			
Proof Tops Member Approvable by Engineera N X <thx< th=""> X <thx< th=""> X</thx<></thx<>	Feeders – Interior Feeders – Exterior	WITHIN 5' OF FOUNDATION WALL		X			X	X	<u> </u>					
OPPORT CONCEALED, ACCESSIBLE CELLINGS X	EDERS - INTERIOR T = 1 = 1 = 1 = 1 = 1 = 1 = 1 = 1	ROOFTOPS (WHEN APPROVED BY ENGINEER)		X		X	X	X						
EUNICELED, IN ACCESSIBLE CELLINGS X	07 00 00 00 00 00 00	CONCEALED, ACCESSIBLE CEILINGS	X		X	X	<u> </u>							
NOTICIDE CUNCEALED IN GYPSUM BUAND PARITION WALLS X		CONCEALED, INACCESSIBLE CEILINGS	X		X	X	<u> </u>							
UNNOLALLED IN UNU WALLS X <td>ERIOR</td> <td>CONCEALED IN GYPSUM BOARD PARTITION WALLS</td> <td></td> <td>-</td> <td>X</td> <td>X</td> <td> </td> <td></td> <td> </td> <td></td> <td></td> <td></td> <td></td> <td></td>	ERIOR	CONCEALED IN GYPSUM BOARD PARTITION WALLS		-	X	X								
CATUBELI, BLUM ID ATE AND SUBJECT TO DAMAGE X <td>INTE</td> <td>CUNCEALED IN CMU WALLS</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td> </td> <td></td> <td></td> <td></td> <td></td> <td></td>	INTE	CUNCEALED IN CMU WALLS												
Arroack, Below IN AFF AND NOL Subject IN DAMAGE X	RS –	EXPOSED, BELOW 10' AFF AND SUBJECT TO DAMAGE				X	X	X						
LATIONE, FOUNDE TO ART OWNINGED SPACES X	EEDEI	EXPUSED, BELOW ID AFF AND NOT SUBJECT TO DAMAGE		-										
Let OLGL I MUMBLE 3 FROME X <td></td> <td>EXPOSED, ABUVE IU ART UNRINISHED SPACES</td> <td></td> <td></td> <td>└</td> <td></td> <td><u> </u></td> <td></td> <td> </td> <td></td> <td></td> <td></td> <td></td> <td></td>		EXPOSED, ABUVE IU ART UNRINISHED SPACES			└		<u> </u>							
Prime Autor in L. Countriè A <td></td> <td>DAMP AND WET LOCATIONS</td> <td></td> <td>$\left \right$</td> <td>-</td> <td>v v</td> <td>y v</td> <td>v v</td> <td>y v</td> <td></td> <td></td> <td></td> <td></td> <td></td>		DAMP AND WET LOCATIONS		$\left \right $	-	v v	y v	v v	y v					
Decode of our not modified to sinteronic I <td>Æ</td> <td></td> <td>\vdash</td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td><u> </u>^_</td> <td></td> <td></td> <td></td> <td></td> <td></td>	Æ		\vdash		-				<u> </u> ^_					
Image: Section of the sectin of the section of the	TERIO	EXPOSED, WITH FREESTANDING SUPPORT		^ Y	-	^ 	^ ¥	^ 	-	<u> </u> ^_				
Below Parking Lors and Roadways 1 X	- EX	CONCEALED IN RETAINING WALL OR SIMILAR FLEMENT	-	x			x	x x	x					
BELOW GREEN SPACE I	- STI	BELOW PARKING LOTS AND ROADWAYS		x	-		x	x	x		X			
Normalize Normalize <t< td=""><td>JRCU</td><td>BELOW GREEN SPACE</td><td></td><td>x</td><td></td><td></td><td>\vdash</td><td></td><td>x</td><td></td><td></td><td></td><td></td><td></td></t<>	JRCU	BELOW GREEN SPACE		x			\vdash		x					
Image: Notify the mappended by engineer) Image: Notify the mappended by engineer) <th< td=""><td>ICH (</td><td>WITHIN 5' OF FOUNDATION WALL</td><td></td><td>x</td><td></td><td></td><td>x</td><td>x</td><td></td><td></td><td></td><td></td><td></td><td></td></th<>	ICH (WITHIN 5' OF FOUNDATION WALL		x			x	x						
VINCE CONCEALED, ACCESSIBLE CEILINGS X X <	BRAN	ROOFTOPS (WHEN APPROVED BY ENGINEER)		x		x	x	x						
PURP I CONCEALED, INACCESSIBLE CEILINGS X		CONCEALED, ACCESSIBLE CEILINGS	X		х	x							Х	
PORTURE CONCEALED IN GYPSUM BOARD PARTITION WALLS X <		CONCEALED, INACCESSIBLE CEILINGS	X		х	x								
PUP NO CONCEALED IN CMU WALLS X	IOR	CONCEALED IN GYPSUM BOARD PARTITION WALLS	X		х	x							Х	
Image: style styl	- INTERIOR BRANCH CIRCUITS - E	CONCEALED IN CMU WALLS	Х		Х	X								
EXPOSED, BELOW 10' AFF AND NOT SUBJECT TO DAMAGE X	=	EXPOSED, BELOW 10' AFF AND SUBJECT TO DAMAGE	Х			Х	X	X						
EXPOSED, ABOVE 10' AFF UNFINISHED SPACES X <td>CUITS</td> <td>EXPOSED, BELOW 10' AFF AND NOT SUBJECT TO DAMAGE</td> <td>Х</td> <td></td> <td>Х</td> <td>Х</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	CUITS	EXPOSED, BELOW 10' AFF AND NOT SUBJECT TO DAMAGE	Х		Х	Х								
EXPOSED, FINISHED SPACES X </td <td>I CIR(</td> <td>EXPOSED, ABOVE 10' AFF UNFINISHED SPACES</td> <td>X</td> <td></td> <td>Х</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	I CIR(EXPOSED, ABOVE 10' AFF UNFINISHED SPACES	X		Х	X								
BELOW SLAB ON GRADE X	ANCH	EXPOSED, FINISHED SPACES	X											
EMBEDDED IN ELEVATED CONCRETE SLAB X	BR	BELOW SLAB ON GRADE	X						X					
DAMP AND WET LOCATIONSXX <th< td=""><td></td><td>EMBEDDED IN ELEVATED CONCRETE SLAB</td><td>X</td><td></td><td> </td><td></td><td> </td><td></td><td>X</td><td></td><td></td><td></td><td></td><td></td></th<>		EMBEDDED IN ELEVATED CONCRETE SLAB	X		 				X					
VICASS 1 CONTROL CIRCUITSXX		DAMP AND WET LOCATIONS	X			X	X	X	X					
Image: Secont and the second and t	AL TIONS	CLASS 1 CONTROL CIRCUITS	X		X	X	X							
Image: Second class 3 control circuits X X X X X	SPECI.	CLASS 2 CONTROL CIRCUITS	X		X	X	X							Х
	ÅPP	CLASS 3 CONTROL CIRCUITS	Х		Х	Х	X							Х

GENERAL NOTES: 1. TRANSITION FROM PVC/HDPE AND PROVIDE RIGID STEEL OR RTRC SWEEPS WHERE CONDUITS PENETRATE WALLS, CONCRETE SLABS, CONCRETE BASES, AND ASPHALT.

2. REFER TO SPECIFICATIONS FOR RESTRICTIONS ON MC/AC CABLE INSTALLATION. 3. EMT SHALL NOT BE USED ON THE EXTERIOR OF A BUILDING OR IN AREAS SUBJECT TO DAMAGE BELOW 10' AFF. 4. INSTALL SURFACE RACEWAYS ONLY WHERE INDICATED ON DRAWINGS.

KEYED NOTES:

В	RANCH CIR F	BRANCH CIRCUIT VOLTAGE DROP WIRING SCHEDULE FOR SINGLE PHASE CIRCUITS											
BRANCH	WIRE SIZE	RE SIZE MAXIMUM BRANCH CIRCUIT LENGTH (IN FEET)											
RATING (A)		120V	208V	240V	277V	480V							
20A	12	83	143	165	191	331							
	10	128	222	256	295	511							
	8	201	348	402	464	804							
	6	313	542	625	721	1250							
30A	10	85	148	170	197	341							
	8	134	232	268	309	536							
	6	208	361	417	481	833							
	4	313	542	625	721	1250							

1. THE ABOVE TABLE VALUES ARE BASED ON COPPER CONDUCTORS, IN STEEL CONDUIT, WITH A LOAD POWER FACTOR OF 0.85 PER NEC CHAPTER 9, TABLE 9. 2. PROVIDE BRANCH CIRCUIT CONDUCTORS AS INDICATED IN THE TABLE ABOVE FOR ALL LIGHTING AND RECEPTACLE BRANCH CIRCUITS. WHERE BRANCH CIRCUITS SERVE DEDICATED EQUIPMENT, THE CONTRACTOR MAY PERFORM

VOLTAGE DROP CALCULATIONS BASED ON ACTUAL EQUIPMENT CONNECTED LOAD AND PROVIDE CONDUCTORS APPROPRIATELY SIZED TO LIMIT VOLTAGE DROP TO A MAXIMUM OF 3%. 3. CONDUCTOR SIZES ARE BASED ON MAXIMUM OF 9 CURRENT CARRYING CONDUCTORS IN A SINGLE CONDUIT. 4. LIMITS FOR CONDUCTOR LENGTHS SHOWN ARE BASED ON A MAXIMUM BRANCH CIRCUIT LOADING OF 64% OF THE

BRANCH BREAKER RATING AND A MAXIMUM OF 3 PERCENT VOLTAGE DROP TO COMPLY WITH ASHRAE 90.1 AND THE NEC. FOR CIRCUITS LOADED GREATER THAN 64% OF BRANCH BREAKER RATING, THE CONTRACTOR SHALL PROVIDE CONDUCTORS APPROPRIATELY SIZED TO LIMIT VOLTAGE DROP TO 3%.

THE FOLLOWING DIMENSION EQUALS	 ⊲ _1" _ ►
ONE INCH WHEN PRINTED TO SCALE.	

SITE PLAN GENERAL NOTES:

- 1. THESE NOTES ARE GENERIC GUIDELINES ONLY. ELECTRICAL CONTRACTOR'S PERSONNEL ON SITE SHALL BE THOROUGHLY FAMILIAR WITH THE PUBLISHED SPECIFICATIONS FOR EXACT DESCRIPTIONS OF SCOPE, METHODS, AND MATERIAL.
- THESE DRAWINGS REPRESENT THE GENERAL EXTENT AND ARRANGEMENT OF SYSTEMS. COORDINATE EXACT EQUIPMENT LOCATIONS, ELEVATIONS, AND FINAL CONNECTION REQUIREMENTS. PROVIDE EACH SYSTEM COMPLETE, INCLUDING ALL NECESSARY COMPONENTS, FITTINGS AND OFFSETS.
- 3. CONDUCT A SURVEY TO IDENTIFY ALL UNDERGROUND UTILITIES. CALL 811 PRIOR TO EXCAVATION.
- 4. UTILITIES SHOWN ON THESE DRAWINGS ARE FOR REFERENCE ONLY. COORDINATE EXACT LOCATION OF ALL EXISTING UTILITIES, AND ROUTING OF ALL NEW UNDERGROUND UTILITIES PRIOR TO EXCAVATION.
- 5. DEWATER TRENCHES PRIOR TO INSTALLATION OF CONDUITS. PROVIDE WATER TIGHT FITTINGS ON ALL UNDERGROUND CONDUITS.
- 6. COORDINATE DEMOLITION WORK, AND ELECTRICAL AND TELEPHONE SERVICES TO THE SITE, WITH THE RESPECTIVE LOCAL UTILITY COMPANY REPRESENTATIVES PRIOR TO COMMENCEMENT OF WORK. INCLUDE ALL ASSOCIATED COST/FEES BY THE UTILITY COMPANIES IN THE BID PRICE.
- INSTALL UNDERGROUND CONDUITS 42" BELOW FINISHED GRADE, MINIMUM, UNLESS NOTED OTHERWISE.
 COORDINATE SERVICE SHUT_DOWNS WITH ALL TRADES INVOLVED ON SITE AND
- COORDINATE SERVICE SHUT-DOWNS WITH ALL TRADES INVOLVED ON SITE AND OBTAIN WRITTEN AUTHORIZATION FROM OWNER 72 HOURS PRIOR TO ANY ELECTRICAL AND/OR TELEPHONE SHUT-DOWN.
 REMOVE ALL DE-ENERGIZED CONDUCTORS FROM SITE AT COMPLETION OF THE
- PROJECT. 10. OUTDOOR POWER BRANCH CIRCUIT WIRING SHALL BE MINIMUM #8 AWG CONDUCTORS
- (XHHW-2), IN MINIMUM 1" DIA. CONDUIT, UNLESS NOTED OTHERWISE.
- 11. SPARE CONDUITS SHALL INCLUDE PULL STRING AND SHALL BE TERMINATED WITH A CAP.
- 12. EXCAVATE THE ENTIRE LENGTH OF TRENCH TO PROPERLY SET DUCT ELEVATIONS.

EXAMPLE 1 CONSTRUCTION KEY NOTES:

- 1. (2)2" SPARE CONDUITS WITH PULL STRINGS FROM SCOREBOARD TO JUNCTION BOX. COORDINATE EXACT LOCATION OF JUNCTION BOX WITH OWNER PRIOR TO ROUGH IN.
- 2. OUTDOOR POWER PEDESTAL.

3. PROVIDE (2)#6AWG + (1)#6AWG GROUND IN 1" C.

DIAGRAM GENERAL NOTES:

- 1. THESE DRAWINGS REPRESENT THE GENERAL EXTENT AND ARRANGEMENT OF SYSTEMS. COORDINATE EXACT EQUIPMENT LOCATIONS, ELEVATIONS, AND FINAL CONNECTION REQUIREMENTS. PROVIDE EACH SYSTEM COMPLETE, INCLUDING ALL NECESSARY COMPONENTS, FITTINGS AND OFFSETS.
- 2. FEEDER AND BRANCH CIRCUIT CONDUCTORS SHALL BE SIZED IN ACCORDANCE WITH THE "FEEDER AND BRANCH CIRCUIT SIZING SCHEDULE-GENERAL PURPOSE" ON THE "ELECTRICAL STANDARD SCHEDULES DRAWING" UNLESS SPECIFICALLY NOTED OTHERWISE.
- 3. BASIS OF DESIGN IS SQUARE D DISTRIBUTION EQUIPMENT. IF THE CONTRACTOR ELECTS TO PROVIDE EQUIPMENT FROM OTHER APPROVED MANUFACTURERS, THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE THE LAYOUT AND CLEARANCE REQUIREMENTS IN ALL SPACES CONTAINING ELECTRICAL EQUIPMENT AND PROVIDE EQUIPMENT MEETING THE SPECIFICATIONS AND ACHIEVING CODE REQUIRED CLEARANCES WITHIN THE SPACE PROVIDED.

3.0 KVA

(E)DP-3 CONNECTED LOAD CALCULATIONS

(E) DP-3 (METERED PER NEC 220.87) 149 KVA X 125%

186.3 KVA

PNL-77 (ADDED LOAD) (E) DP-3 TOTAL CONNECTED LOAD 189.3 KVA

					EX	ISTI	NG	PNL	-77					
#	LOAD TYPE	DESCRIPTION	CB TYPE	СВ	VA	ØA	ØB	ØC	VA	СВ	CB TYPE	DESCRIPTION	LO, TYI	AD PE #
1		SPARE	EXIST	20		1000			1000	40	EXIST		N	C 2
3	NC	EXISTING LOAD	EXIST	20	500		1500		1000	+0	EXIST		N	C 4
5	NC	EXISTING LOAD	EXIST	20	500			1000	500	20	EXIST	EXISTING LOAD	N	C 6
7	NC	EXISTING LOAD	EXIST	20	500	1000			500	20	EXIST	EXISTING LOAD	N	C 8
9	NC	EXISTING LOAD	EXIST	20	500		1500		1000	40	EXIST		N	<u>C 10</u>
11	NC	EXISTING LOAD	EXIST	20	500			1500	1000	+0	EXIST		N	<u>C 12</u>
13		SPARE	EXIST	20		500			500	20	EXIST	EXISTING LOAD	N	<u>C 14</u>
15	NC	EXISTING LOAD	EXIST	20	500		1000		500	20	EXIST	EXISTING LOAD	N	C 16
17	NC	EXISTING LOAD	EXIST	20	500			500		20	EXIST	SPARE		18
19	NC	EXISTING LOAD	EXIST	20	500	1000			500	20	EXIST	EXISTING LOAD	N	C 20
21	NC		EXIST	30	750		1250		500	20	EXIST	EXISTING LOAD	N	C 22
23	NC		EXIST	- 50	750			1250	500	20	EXIST	EXISTING LOAD	N/	C 24
25	NC	EXISTING LOAD	EXIST	30	750	1250			500	20	EXIST	EXISTING LOAD	N(C 2€
27	NC		EXIST	70	750		750			20	EXIST	SPARE		28
29	NC		EXIST	- 50	750			1250	500	30	EXIST	EXISTING LOAD	N/	C 3C
31	NC	EXISTING LOAD	EXIST	20	500	1040			540	20	EXIST	RECEPTACLE	F	₹ 32
33	NC	EXISTING LOAD	EXIST	20	500		790		290	20	EXIST	SCOREBOARD	N/	C 34
35	R	RECEPTACLE	EXIST	20	1080			1080		20	EXIST	SPARE		36
37	R	RECEPTACLE	EXIST	20	1080	1080				20	EXIST	SPARE		38
39		SPARE	EXIST	20						20	EXIST	SPARE		40
41		SPARE	EXIST	20				**		20	EXIST	SPARE		42
						6870	6790	6580				•		
	PANELI VOLTA	BOARD_INFORMATION SE:208Y/120	BRANC	h circui	T CONNE	ØA ECTED LO	ØB AD	ØC D E	<u>emand</u> T <u>actor</u>	<u>CALCUL</u> LOAD	<u>ATED</u>	FEEDER AND OVERCURRENTSIZINGNOTES:	_	
	BUS A	MPACITY: 225A	CONTIN	UOUS LO	DAD (C)			_	100%		_	125%		
	MAIN 1	YPE: 175A MCB	ELECTR	IC HEAT	(E)				100%			100%		
	MINIMU	M A.I.C.: 22,000	NON-C	ONTINUO	US LOAD) (NC)	17540)	100%	17540)	100% 17540		
	MOUNT	ING: SURFACE	KITCHE	N LOAD	(K)		-	-	100%		_	100%		
			RECEP	TACLE B	ase loai	D (R)	2700)	100%	2700)	100% 2700		
		FEED-THROUGH LUGS	RECEP	FACLE DE	EMAND L	OAD (R)		-	50%		-	100%		—
		DOUBLE LUGS	LIGHTIN	IG LOAD	(L)			-	100%		_	125%		
		INTEGRAL SPD	ADDITIC	NAL TR	ACK LIGH	ITING LOA	AD	-			-	100%		
			MOTOR	S, HIGHE	ST LOAD	(MH)			125%			100%		
	PANEL	BOARD LOCATION	MOTOR	S, REMAI	INING LO	AD (M)		-	100%		-	100%		—
					מעוקוס חו			тот,	AL(KVA)	: 20.24	- 			—
			CALCUL	TED FROM	CONNECT	TED LOAD	014 12	TOTAL	(AMPS)	56	- 5 TOT	L (AMPS): <u>56</u>		

©Copyright 2021 by Peter Basso Associates, Inc

