

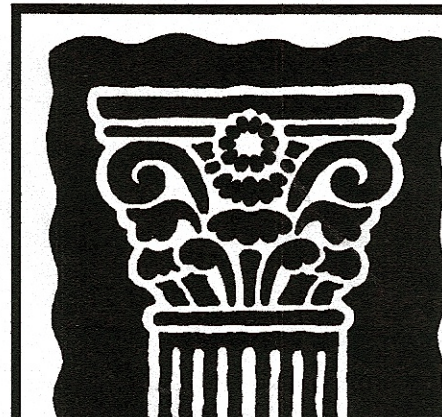
PROPOSED CONCESSIONS/RESTROOM FACILITY AND STORAGE BUILDING FOR MASSILLON CITY SCHOOL DISTRICT MASSILLON MIDDLE SCHOOL



250 29TH STREET NORTHWEST
MASSILLON, OHIO 44647
PREPARED BY:

**STATE ELECTRICAL
ENGINEERING**
ELECTRICAL DESIGNERS
AND ENGINEERS
519 FOURTH STREET, NW
CANTON, OHIO 44703
(330) 452-9806

HA
HAMMONTREE & ASSOCIATES, LIMITED
ENGINEERS, PLANNERS, SURVEYORS
5233 STONEHAM RD. NORTH CANTON, OH 44720
PHN: (330) 499-8817 FAX: (330) 499-0149
TOLL FREE: 1-800-394-9817



**JOHN PATRICK
PICARD**
ARCHITECT INC.

LSG
Mechanical Engineers
10483 Cleveland Ave. NW
Uniontown, Ohio 44685
330.494.1574
LSG Project #15049

Only approved signed plans by the
City Engineer are to be used for
construction.

Approved by the Massillon City Engineer this
Day of _____, 20____.
City Engineer

PROJECT SCHEDULE

CUT TO BID:	JULY 20, 2018
FINAL BIDS DUE:	AUGUST 20, 2018
START OF CONSTRUCTION:	SEPTEMBER 10, 2018
STORAGE BUILDING COMPLETION:	NOVEMBER 9, 2018
END OF CONSTRUCTION:	DECEMBER 31, 2018

**JOHN PATRICK
PICARD**
ARCHITECT, INC.
50 NORTH AVENUE NORTHEAST
SUITE 102
MASSILLON, OHIO 44646
PHONE (330) 471-9000
EMAIL: jpparchitect@yahoo.com

NOTE TO CONTRACTORS:
ALL CONTRACTORS ARE
RESPONSIBLE FOR ALL DRAWINGS
LISTED IN THE INDEX ON DRAWING
T-1 AS WELL AS ALL RELATED
SPECIFICATION SECTIONS. IF YOU
PREPARE A BID OR CONSTRUCT
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DOCUMENTS PROVIDED, YOU DO
SO AT YOUR OWN RISK.

BUILDING CODE DATA: CONCESSION/RESTROOM FACILITY

PROJECT ADDRESS: 250 29TH STREET NORTHWEST
MASSILLON, OHIO 44647
PROJECT DESCRIPTION: PROPOSED
CONCESSIONS/RESTROOM
LOCKER ROOM FACILITY
USE GROUP: B-BUSINESS
CONSTRUCTION CLASS: SB
ACCESSIBILITY: BUILDING IS ACCESSIBLE IN
ACCORDANCE WITH CHAPTER II
OF THE OHIO BUILDING CODE
FLOOR AREA: 2,220 SF.
OCCUPANT LOAD: 1 PERSON PER 50 SF GROSS
(LOCKER ROOMS)
45 PERSONS
ZONING: NO CHANGE

RESTROOM FACILITY AVAILABLE TO SITE

HOME TEAM RESTROOM AND LOCKER ROOM FACILITY ARE IN
EXISTING MIDDLE SCHOOL 1/2 TO 1/4" AWAY FROM TACK AND
FIELD FACILITY.

PUBLIC RESTROOMS ARE ALSO AVAILABLE IN THE MIDDLE
SCHOOL IF NEEDED FOR EVENTS LARGER THAN 1,500
OCCUPANTS.

TRACK AND FIELD EXISTING RESTROOMS ARE BEING RENOVATED
TO PROVIDE TWO FAMILY ACCESSIBLE RESTROOMS. SEE
DRAWING S-1 AND AGI.

PUBLIC RESTROOM FACILITY FOR TRACK AND FIELD EVENTS SEE
DRAWING A-2.

ANTICIPATED EVENT OCCUPANCY 500 TO 1,500 PERSONS
AVAILABLE SEATING 1,478.

DESIGN LOADS:

SOIL BEARING CAPACITY: (APRIL 3, 2017 GEOTECH REPORT)	2,500 PSF
FLOOR:	100 PSF
ROOF LIVE LOAD:	25 PSF
ROOF DEAD LOAD:	15 PSF
GROUND SNOW LOAD:	25 PSF
SNOW EXPOSURE FACTOR:	1.0
SNOW LOAD IMPORTANCE FACTOR:	1.0
THERMAL FACTOR:	1.0
WIND LOADS:	
BASIC WIND SPEED:	90 MPH
WIND LOAD IMPORTANCE FACTOR:	1.0
WIND EXPOSURE:	B
WIND DESIGN PRESSURE:	
0-15 FEET:	18 PSF
WIND PRESSURE COEFFICIENT:	
WINDWARD WALL:	+0.80
LEEWARD WALL:	-0.50
SIDE WALL:	-0.70
ROOF:	-1.0
INTERNAL PRESSURE:	±0.25
SEISMIC DATA:	
SEISMIC IMPORTANCE FACTOR:	1.0
SEISMIC USE GROUP:	I
SEISMIC DESIGN CATEGORY:	B

BUILDING CODE DATA: STORAGE BUILDING

PROJECT ADDRESS: 250 29TH STREET NORTHWEST
MASSILLON, OHIO 44647
PROJECT DESCRIPTION: PROPOSED TRACK AND FIELD
SPORTS EQUIPMENT STORAGE
BUILDING
USE GROUP: S-1 MODERATE HAZARD STORAGE
CONSTRUCTION CLASS: SB
ACCESSIBILITY: BUILDING IS ACCESSIBLE IN
ACCORDANCE WITH CHAPTER II
OF THE OHIO BUILDING CODE
FLOOR AREA: 1,936 SF
OCCUPANT LOAD: 1 PERSON PER 500 SF GROSS
(WAREHOUSE)
4 PERSONS
ZONING: NO CHANGE

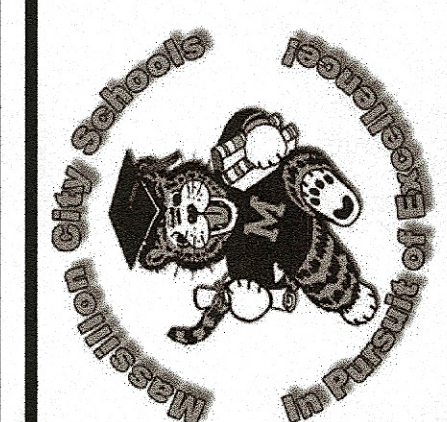
DESIGN LOADS:

SOIL BEARING CAPACITY: (APRIL 3, 2017 GEOTECH REPORT)	2,500 PSF
FLOOR:	100 PSF
ROOF LIVE LOAD:	25 PSF
ROOF DEAD LOAD:	15 PSF
GROUND SNOW LOAD:	25 PSF
SNOW EXPOSURE FACTOR:	1.0
SNOW LOAD IMPORTANCE FACTOR:	1.0
THERMAL FACTOR:	1.0
WIND LOADS:	
BASIC WIND SPEED:	90 MPH
WIND LOAD IMPORTANCE FACTOR:	1.0
WIND EXPOSURE:	B
WIND DESIGN PRESSURE:	
0-15 FEET:	18 PSF
WIND PRESSURE COEFFICIENT:	
WINDWARD WALL:	+0.80
LEEWARD WALL:	-0.50
SIDE WALL:	-0.70
ROOF:	-1.0
INTERNAL PRESSURE:	±0.25
SEISMIC DATA:	
SEISMIC IMPORTANCE FACTOR:	1.0
SEISMIC USE GROUP:	I
SEISMIC DESIGN CATEGORY:	B

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[Signature]

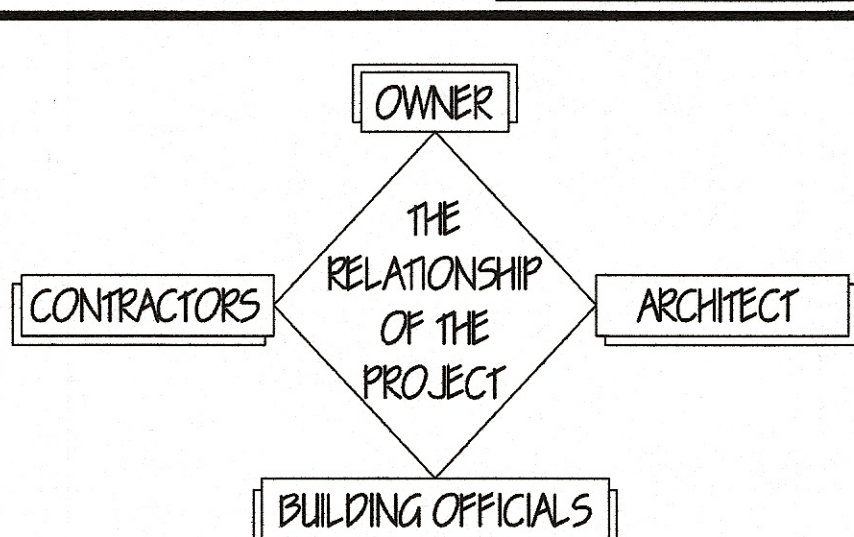
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MASSILLON MIDDLE SCHOOL
250 29TH STREET NORTHWEST
MASSILLON, OHIO 44647



STATE OF OHIO
REGISTERED ARCHITECT
**JOHN PATRICK
PICARD**
10621
NAME: JOHN PATRICK PICARD
LICENSE NO. 9410621
EXPIRATION DATE: 12/31/2019

Project Number 17035
Date 07-20-18
ALL REVISIONS MADE TO THIS
DRAWING AFTER ABOVE DATE SHALL
BE DATED AND DESCRIBED BELOW.
THIS DRAWING WAS LAST REVISED
ON 07/20/18

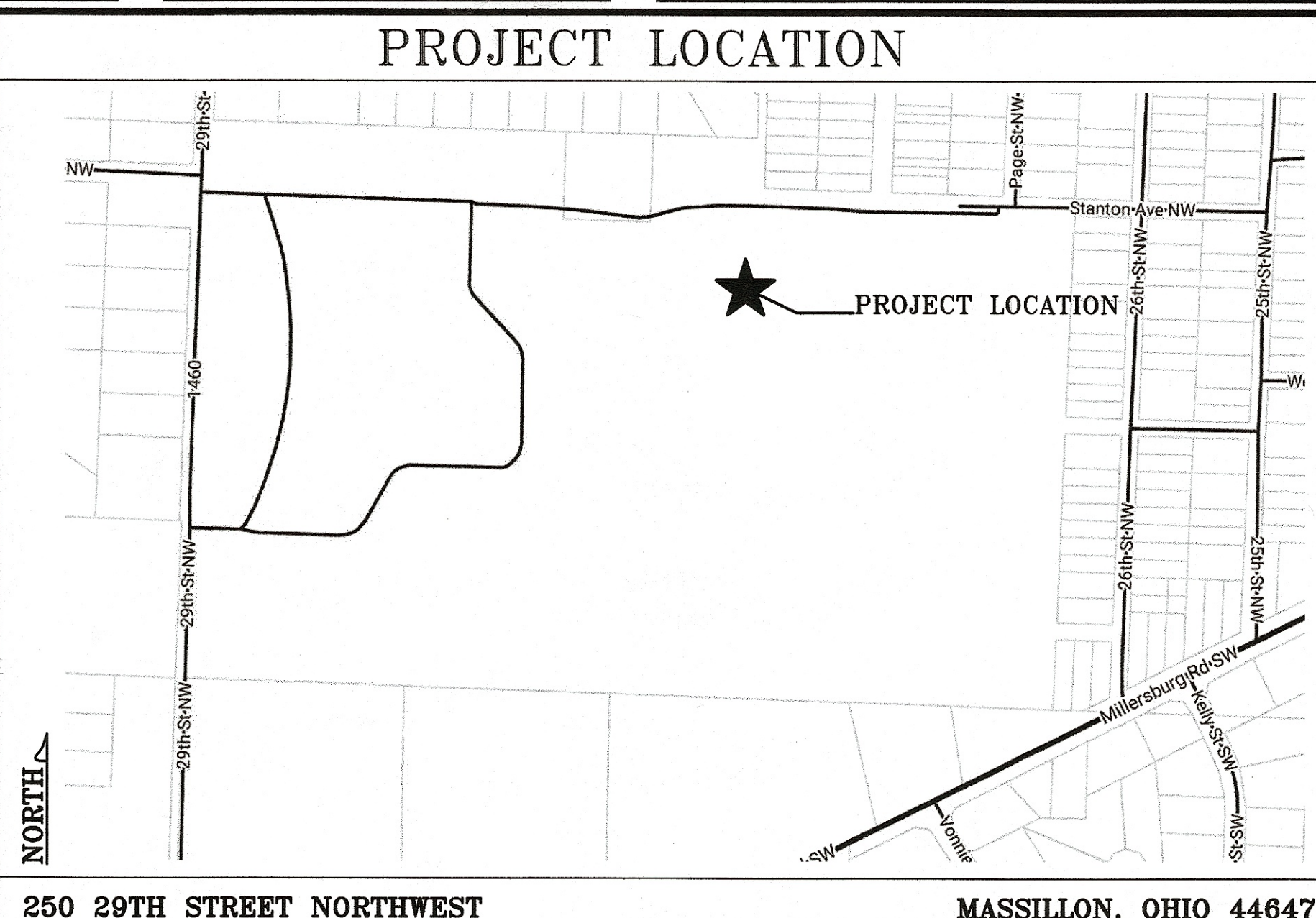
T1



THE DEVELOPMENT OF THIS PROJECT IS A TEAM EFFORT. THE TEAM
IS COMPRISED OF THE OWNER, BUILDING OFFICIALS, CONTRACTORS,
AND THE ARCHITECT. ALL MEMBERS OF THE TEAM LEGALLY,
CONTRACTUALLY, AND TECHNICALLY ARE NEEDED TO COMPLETE THE
PROJECT. THE CONTRACTORS AND THE ARCHITECT ARE RESPONSIBLE
TO PROVIDE THEIR SERVICES TO THE OWNER. THE OWNER, BUILDING
OFFICIALS, CONTRACTOR, AND ARCHITECT RELATIONSHIP MUST BE
MAINTAINED AS A TEAM AT ALL TIMES TO ENSURE SUCCESS,
THEREFORE ALL QUESTIONS, COMMENTS, CONCERNS, AND
DECISIONS THAT ARISE DURING THE PROJECT DEVELOPMENT SHOULD
BE BROUGHT IMMEDIATELY TO THE ATTENTION OF THE ARCHITECT SO
THAT THEY CAN BE ADMINISTERED AND EVALUATED BY ALL
MEMBERS OF THE TEAM. IF ALL MEMBERS OF THIS TEAM CAN
FOLLOW THESE GUIDELINES THE PROJECT WILL SURELY SUCCEED,
AND ALL MEMBERS OF THE TEAM WILL PROSPER.



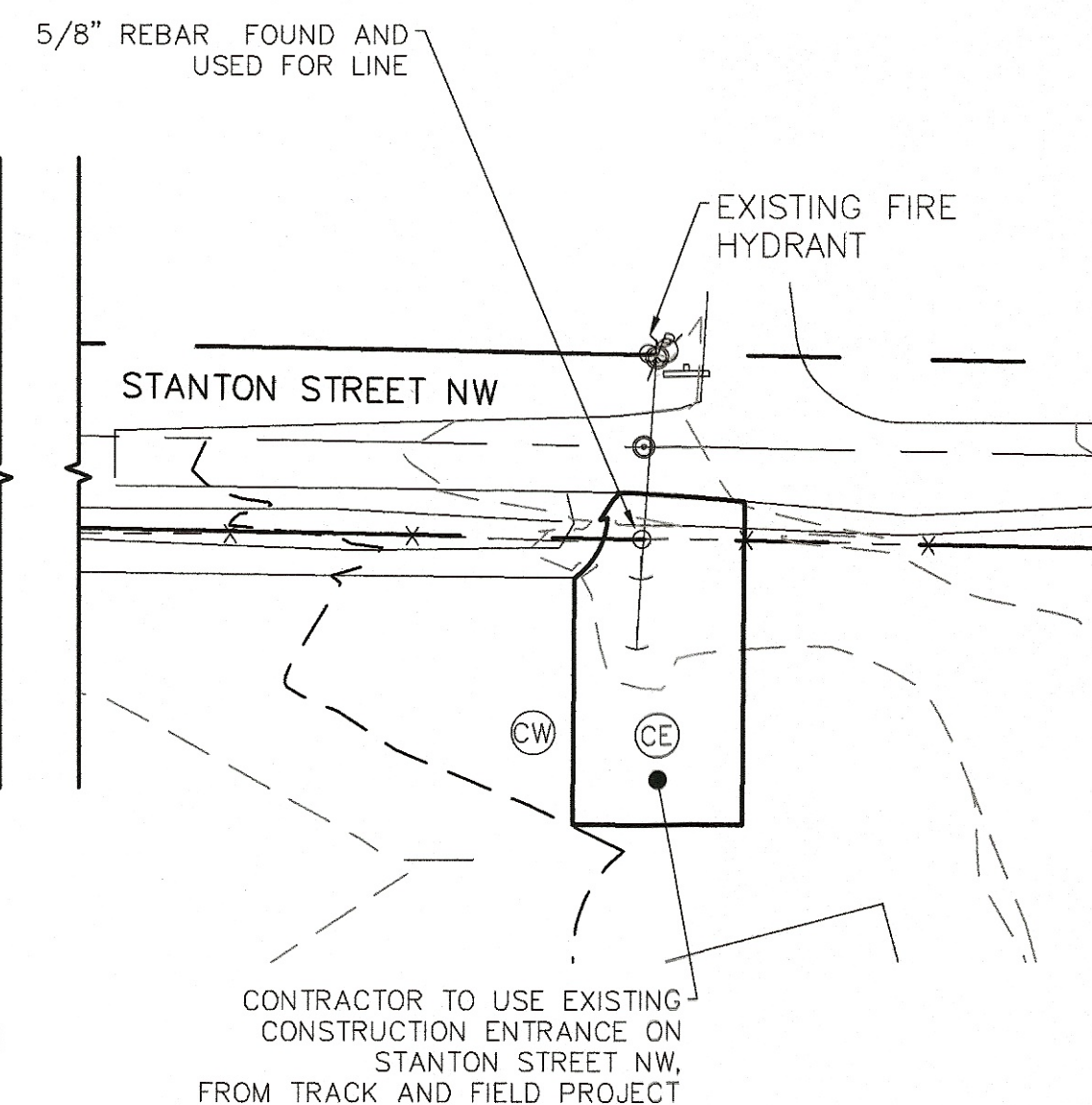
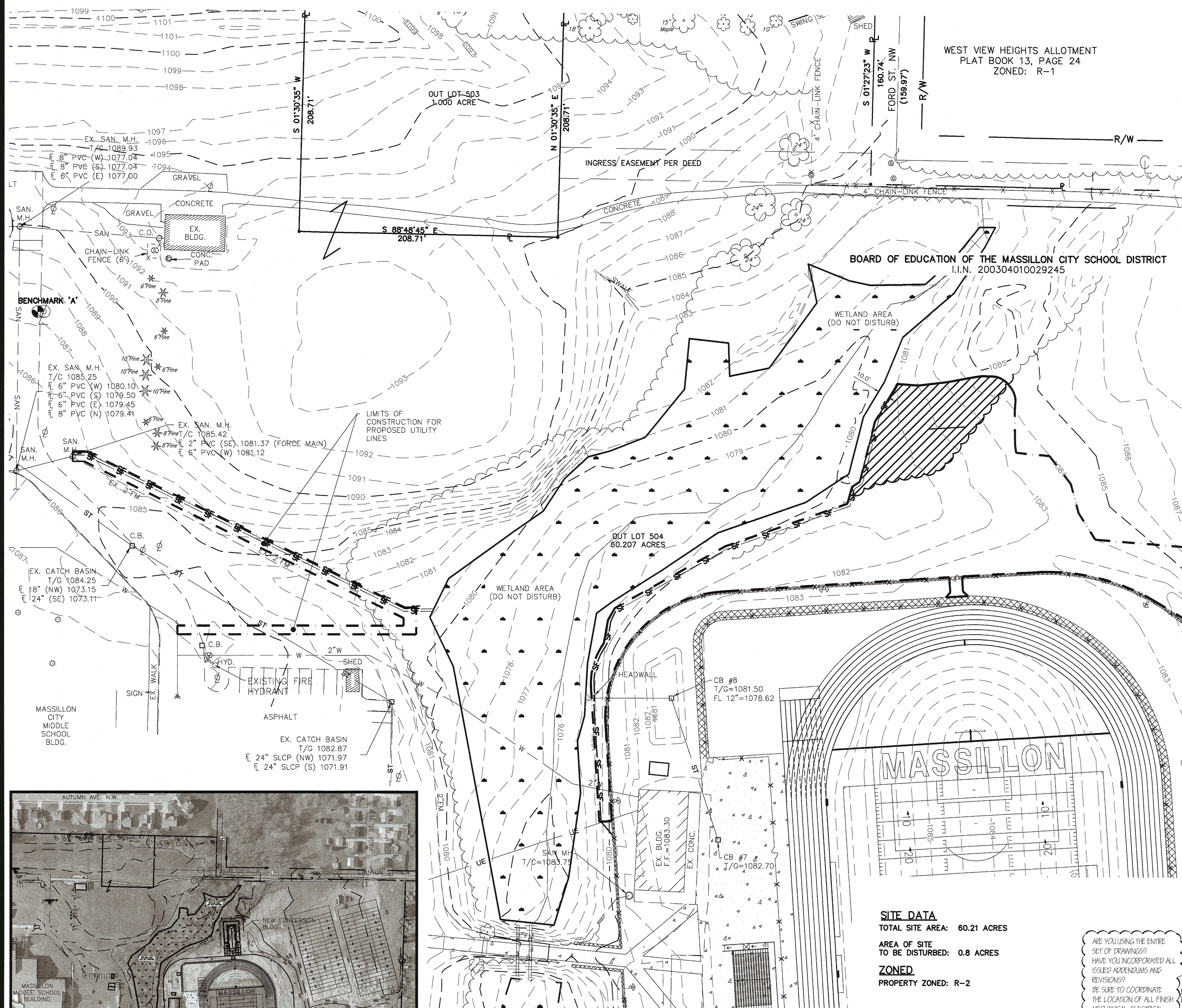
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CODE OFFICIALS APPROVAL STAMPS



NOTE:
CONTRACTOR SHALL MAINTAIN A 10.0' BUFFER FROM WETLAND LIMITS AT ALL TIMES DURING CONSTRUCTION.

- LEGEND**
- EX. MONUMENT (FOUND)
 - BENCHMARK (AS NOTED)
 - CENTER LINE
 - LOT LINE
 - PROPERTY LINE
 - R/W RIGHT OF WAY
 - () RECORD BEARINGS & DIST.
 - E.O.P. EDGE OF PAVEMENT
 - F.F. FINISH FLOOR
 - EX. CONTOUR LINE
 - 980— CONTOUR LABEL
 - BOLLARD
 - FENCE (AS NOTED)
 - GUARDRAIL
 - SIGN
 - DECIDUOUS TREE (AS NOTED)
 - EVERGREEN TREE (AS NOTED)
 - BUSH (AS NOTED)
 - POLE ANCHOR
 - LIGHT POLE
 - STORM CATCH BASIN
 - WETLAND DELINEATED (DO NOT DISTURB)
 - STORM MANHOLE
 - GAS LINE MARKER
 - GAS WELL
 - EXISTING WOODED AREA (INCLUDING TREES, SHRUBS AND BUSHES TO BE REMOVED)
 - LIMITS OF CONSTRUCTION
 - SF SILT FENCE
 - EXISTING CONSTRUCTION ENTRANCE
 - CONCRETE WASHOUT PITS (CONTRACTOR TO LOCATE)

SITE DATA
TOTAL SITE AREA: 60.21 ACRES
AREA OF SITE TO BE DISTURBED: 0.8 ACRES
ZONED
PROPERTY ZONED: R-2

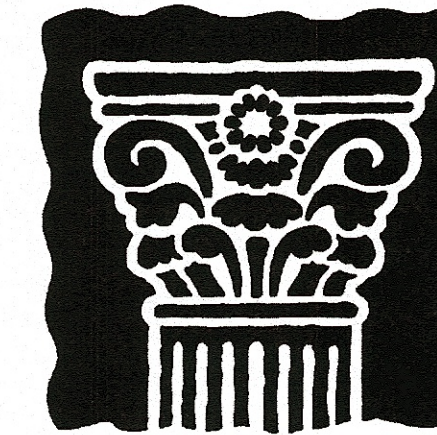
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SCALE: 1" = 40'
0' 20' 40' 80'

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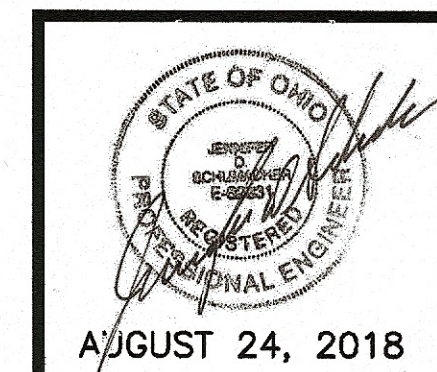
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**PROPOSED CONCESSIONS/RESTROOM
FACILITY AND STORAGE BUILDING FOR
MASSILLON CITY
SCHOOL DISTRICT
MASSILLON MIDDLE SCHOOL
250 29TH STREET NORTHWEST
MASSILLON, OHIO 44647**



NAME: JENNIFER D. SCHUMACHER
LICENSE NO. 62831
EXPIRATION DATE: 12/31/2019

Project Number: 17035
Date: 07-20-18
STOP ALL REVISIONS MADE TO THIS DRAWING AFTER THIS DATE SHALL BE DATED AND DESCRIBED BELOW. THIS DRAWING WAS LAST REVISED ON: _____

C-1



VICINITY MAP
SCALE: 1"=200'

EXISTING PLAN
SCALE: 1"=40'

BENCHMARK #A
1" CHISELED ON EAST SIDE OF LIGHT POLE IN THE SCHOOL PARKING LOT
ELEV. = 1090.39



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MASSILLON CITY
SCHOOL DISTRICT
SCHOOL MIDDLE SCHOOL
250 29TH STREET NORTHWEST
MASSILLON, OHIO 44647**



STATE OF OHIO
PROFESSIONAL ENGINEER
AUGUST 24, 2018

NAME:
JENNIFER D. SCHUMACHER
LICENSE NO. 62831
EXPIRATION DATE: 12/31/2019

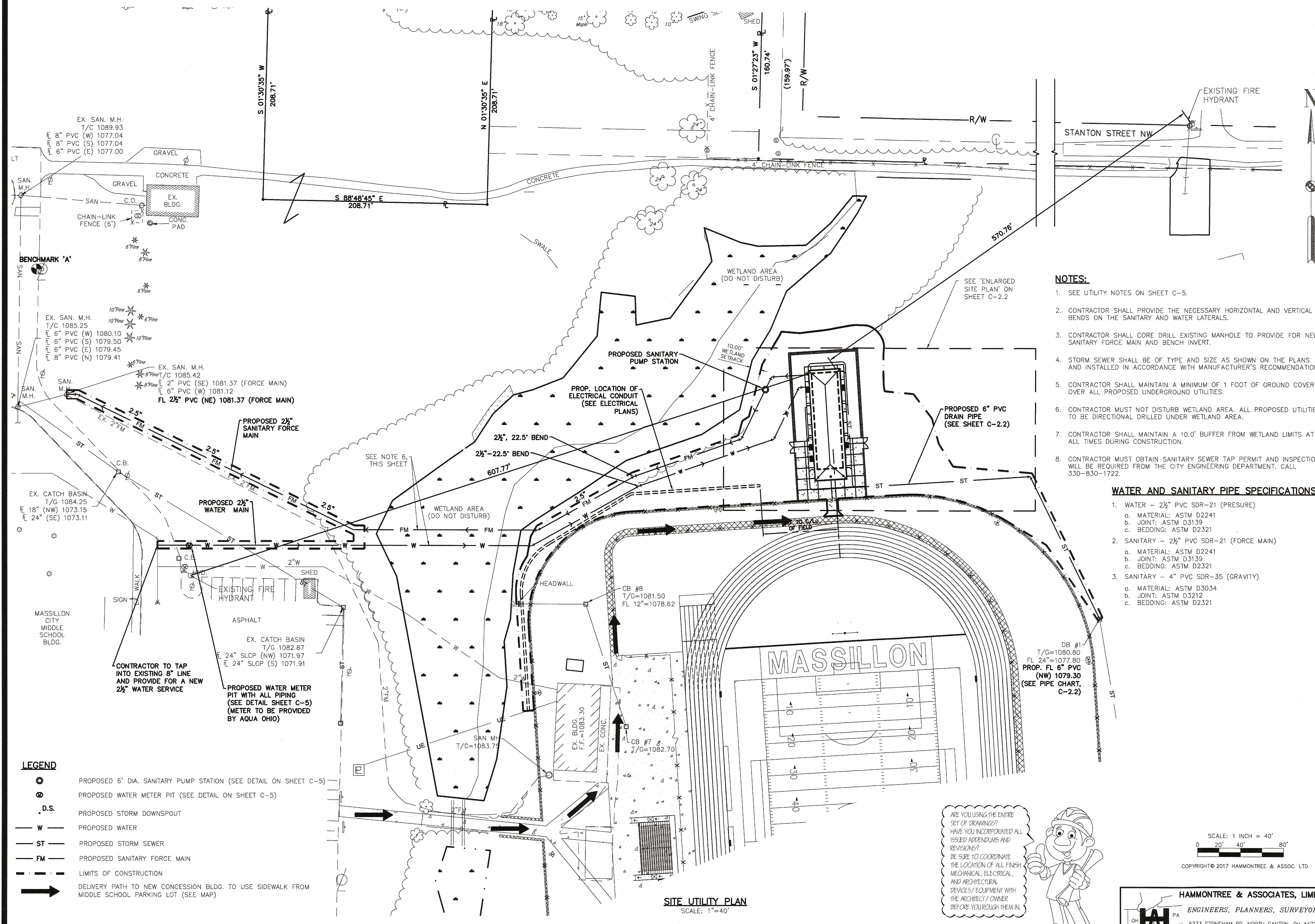
Project Number 17035
Date 07-20-18
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ON

SCALE: 1" = 40'
0 20' 40' 80'

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C-2.1



NOTES:

1. SEE UTILITY NOTES ON SHEET C-5.
2. CONTRACTOR SHALL PROVIDE THE NECESSARY HORIZONTAL AND VERTICAL BENDS ON THE SANITARY AND WATER LATERALS.
3. CONTRACTOR SHALL CORE DRILL EXISTING MANHOLE TO PROVIDE FOR NEW SANITARY FORCE MAIN AND BENCH INVERT.
4. STORM SEWER SHALL BE OF TYPE AND SIZE AS SHOWN ON THE PLANS AND INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
5. CONTRACTOR SHALL MAINTAIN A MINIMUM OF 1 FOOT OF GROUND COVER OVER ALL PROPOSED UNDERGROUND UTILITIES.
6. CONTRACTOR MUST NOT DISTURB WETLAND AREA. ALL PROPOSED UTILITIES TO BE DIRECTIONAL DRILLED UNDER WETLAND AREA.
7. CONTRACTOR SHALL MAINTAIN A 10.0' BUFFER FROM WETLAND LIMITS AT ALL TIMES DURING CONSTRUCTION.
8. CONTRACTOR MUST OBTAIN SANITARY SEWER TAP PERMIT AND INSPECTION WILL BE REQUIRED FROM THE CITY ENGINEERING DEPARTMENT. CALL 330-630-1722.

WATER AND SANITARY PIPE SPECIFICATIONS

1. WATER - 2 1/2" PVC SDR-21 (PRESURE)
a. MATERIAL: ASTM D2241
b. JOINT: ASTM D3139
c. BEDDING: ASTM D2321
2. SANITARY - 2 1/2" PVC SDR-21 (FORCE MAIN)
a. MATERIAL: ASTM D2241
b. JOINT: ASTM D3139
c. BEDDING: ASTM D2321
3. SANITARY - 4" PVC SDR-35 (GRAVITY)
a. MATERIAL: ASTM D3034
b. JOINT: ASTM D3212
c. BEDDING: ASTM D2321

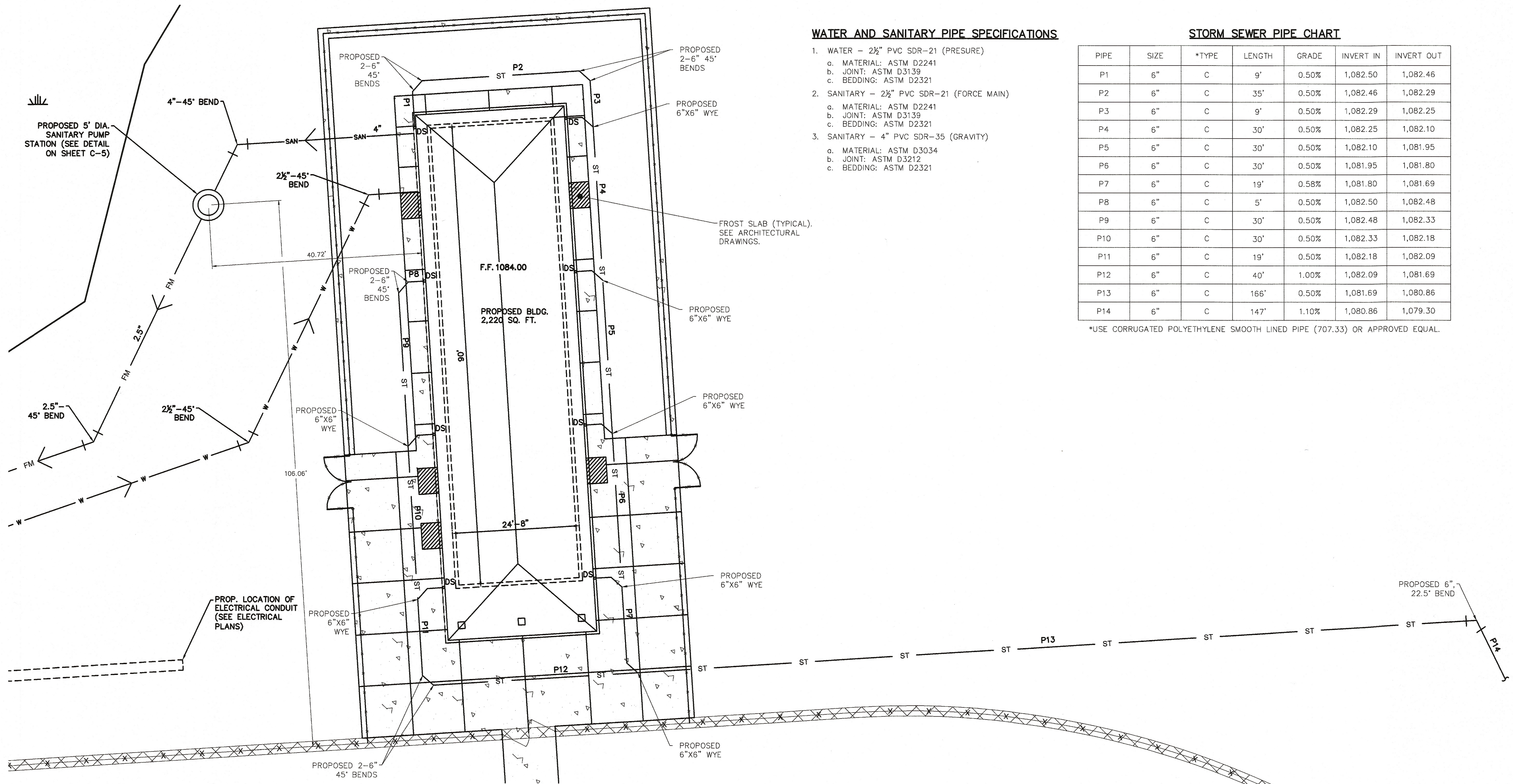
LEGEND

- PROPOSED 6" DIA. SANITARY PUMP STATION (SEE DETAIL ON SHEET C-5)
- PROPOSED WATER METER PIT (SEE DETAIL ON SHEET C-5)
- D.S. PROPOSED STORM DOWNSPOUT
- W — PROPOSED WATER
- ST — PROPOSED STORM SEWER
- FM — PROPOSED SANITARY FORCE MAIN
- LIMITS OF CONSTRUCTION
- ➔ DELIVERY PATH TO NEW CONCESSION BLDG. TO USE SIDEWALK FROM MIDDLE SCHOOL PARKING LOT (SEE MAP)

SITE UTILITY PLAN
SCALE: 1"=40'

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BEFORE YOU ROLL THEM IN.





ENLARGED SITE PLAN
SCALE: 1"=10'

LEGEND

- PROPOSED 5' DIA. SANITARY PUMP STATION (SEE DETAIL ON SHEET C-5)
- PROPOSED 5"x4" PRE-FINISHED ALUMINUM DOWNSPOUT (SEE ARCHITECTURAL DRAWINGS)
- PROPOSED WATER
- PROPOSED STORM SEWER
- PROPOSED SANITARY FORCE MAIN
- PROPOSED GRAVITY SANITARY SEWER

WATER AND SANITARY PIPE SPECIFICATIONS

1. WATER - 2 1/2" PVC SDR-21 (PRESURE)
 - a. MATERIAL: ASTM D2241
 - b. JOINT: ASTM D3139
 - c. BEDDING: ASTM D2321
2. SANITARY - 2 1/2" PVC SDR-21 (FORCE MAIN)
 - a. MATERIAL: ASTM D2241
 - b. JOINT: ASTM D3139
 - c. BEDDING: ASTM D2321
3. SANITARY - 4" PVC SDR-35 (GRAVITY)
 - a. MATERIAL: ASTM D3034
 - b. JOINT: ASTM D3212
 - c. BEDDING: ASTM D2321

STORM SEWER PIPE CHART

PIPE	SIZE	*TYPE	LENGTH	GRADE	INVERT IN	INVERT OUT
P1	6"	C	9'	0.50%	1,082.50	1,082.46
P2	6"	C	35'	0.50%	1,082.46	1,082.29
P3	6"	C	9'	0.50%	1,082.29	1,082.25
P4	6"	C	30'	0.50%	1,082.25	1,082.10
P5	6"	C	30'	0.50%	1,082.10	1,081.95
P6	6"	C	30'	0.50%	1,081.95	1,081.80
P7	6"	C	19'	0.58%	1,081.80	1,081.69
P8	6"	C	5'	0.50%	1,082.50	1,082.48
P9	6"	C	30'	0.50%	1,082.48	1,082.33
P10	6"	C	30'	0.50%	1,082.33	1,082.18
P11	6"	C	19'	0.50%	1,082.18	1,082.09
P12	6"	C	40'	1.00%	1,082.09	1,081.69
P13	6"	C	166'	0.50%	1,081.69	1,080.86
P14	6"	C	147'	1.10%	1,080.86	1,079.30

*USE CORRUGATED POLYETHYLENE SMOOTH LINED PIPE (707.33) OR APPROVED EQUAL.

NOTES:

1. SEE UTILITY NOTES ON SHEET C-4.
2. CONTRACTOR SHALL PROVIDE THE NECESSARY HORIZONTAL AND VERTICAL BENDS ON THE SANITARY AND WATER LATERALS.
3. CONTRACTOR SHALL CORE DRILL EXISTING MANHOLE TO PROVIDE FOR NEW SANITARY FORCE MAIN AND BENCH INVERT.
4. STORM SEWER SHALL BE OF TYPE AND SIZE AS SHOWN ON THE PLANS AND INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
5. CONTRACTOR SHALL MAINTAIN A MINIMUM OF 1 FOOT OF GROUND COVER OVER ALL PROPOSED UNDERGROUND UTILITIES.
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SCALE: 1" = 10'

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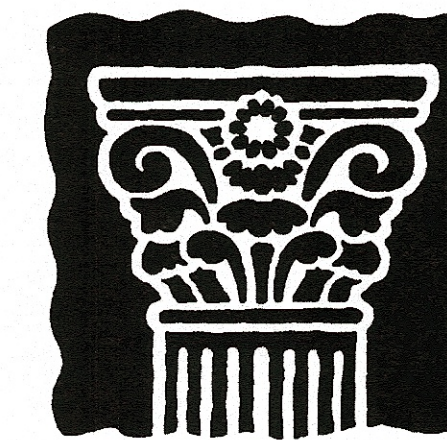
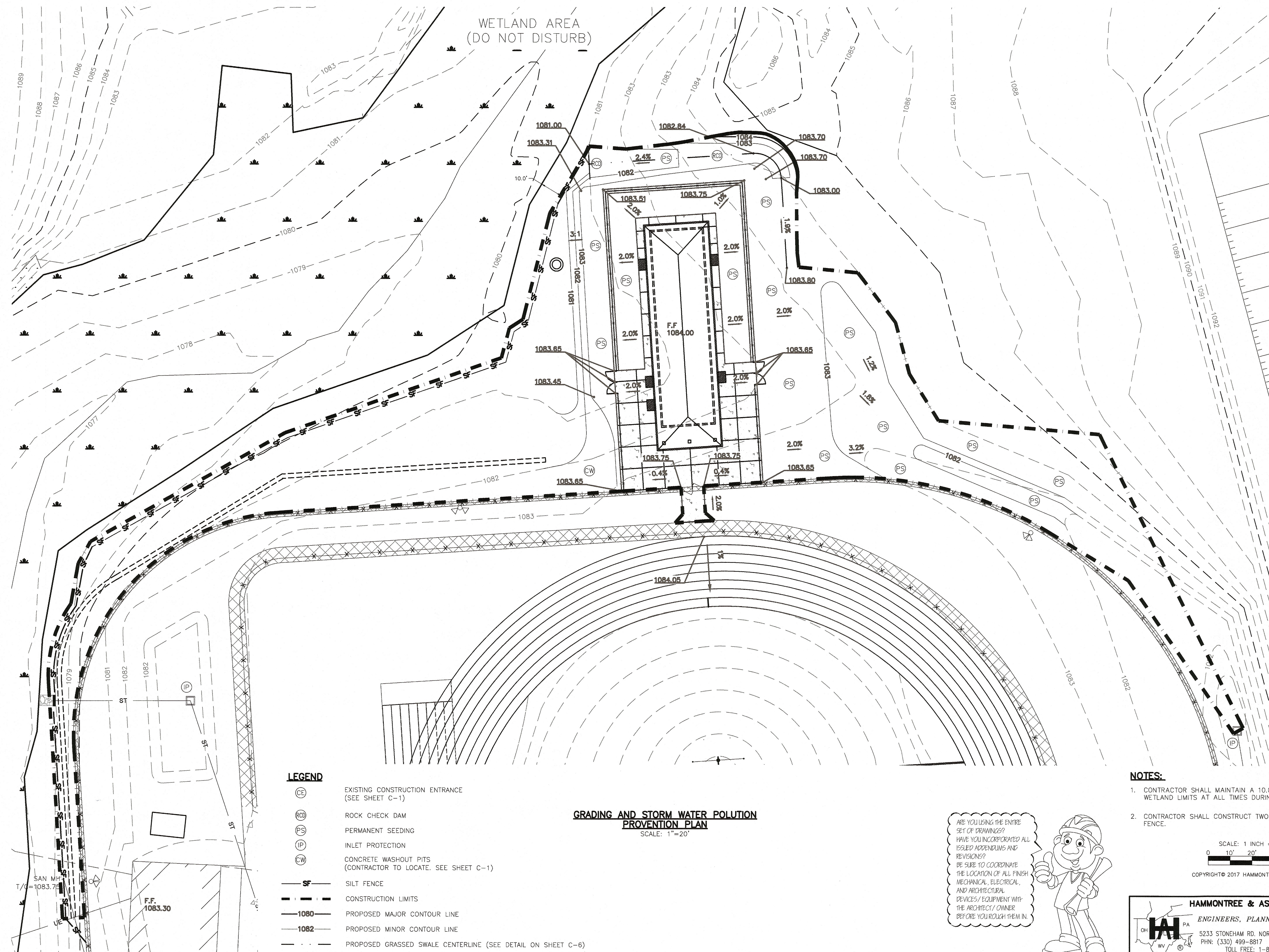
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STATE OF OHIO
JENNIFER D. SCHUMACHER
LICENSE NO. 62831
EXPIRATION DATE: 12/31/2019
AUGUST 24, 2018

Project Number 17035
Date 07-20-18
STOP
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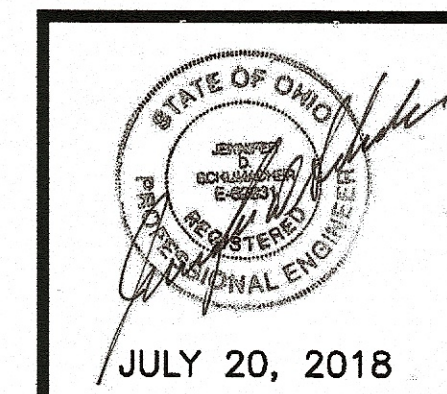
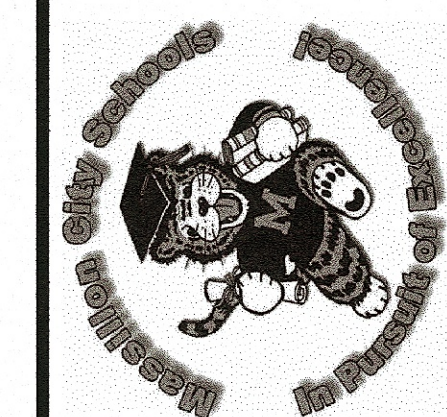
C-2.2



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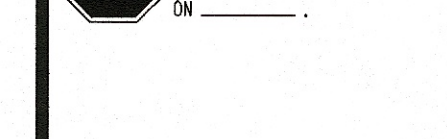
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MASSILLON, OHIO 44647



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ON



NOTES:

1. CONTRACTOR SHALL MAINTAIN A 10.0' BUFFER FROM WETLAND LIMITS AT ALL TIMES DURING CONSTRUCTION.
2. CONTRACTOR SHALL CONSTRUCT TWO ROWS OF SILT FENCE.

SCALE: 1 INCH = 20'
0 10' 20' 40'

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C-3

GENERAL NOTES

1. THE CONTRACTOR IS RESPONSIBLE FOR THE DEMOLITION, REMOVAL, AND DISPOSAL (IN A LOCATION APPROVED BY THE GOVERNING AUTHORITIES) OF ALL STRUCTURES; SO THAT THE IMPROVEMENTS SHOWN ON THE REMAINING PLANS CAN BE CONSTRUCTED. ALL FACILITIES TO BE REMOVED SHALL BE UNDERCUT TO SUITABLE MATERIAL AND BROUGHT TO GRADE WITH SUITABLE COMPACTED FILL MATERIAL PER THE SPECIFICATIONS OUTLINED IN THESE PLANS OR GEOTECHNICAL REPORT. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS NEEDED FOR DEMOLITION AND DISPOSAL.
2. THE CONTRACTOR SHALL COORDINATE WITH THE RESPECTIVE UTILITY COMPANIES PRIOR TO THE REMOVAL AND/OR RELOCATION OF UTILITIES.
3. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANY CONCERNING PORTIONS OF WORK WHICH MAY BE PERFORMED BY THE UTILITY COMPANY'S FORCES AND ANY FEES WHICH ARE TO BE PAID TO THE UTILITY COMPANY FOR THEIR SERVICES. THE CONTRACTOR IS RESPONSIBLE FOR PAYING ALL FEES AND CHARGES.
4. IF ANY PAVEMENT IS DAMAGED OUTSIDE THE SAW-CUT LIMITS, THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL AND REPAIR OF THAT PAVEMENT.
5. THE LOCATIONS OF ALL EXISTING UTILITIES SHOWN ON THIS PLAN HAVE BEEN DETERMINED FROM THE BEST INFORMATION AVAILABLE AND ARE GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THEIR ACCURACY. PRIOR TO THE START OF ANY DEMOLITION OR CONSTRUCTION ACTIVITY, THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATIONS OF ALL UTILITIES.
6. WITHIN THE SUBJECT PROPERTY, THE INTENT IS TO HAVE A CLEAN, CLEAR SITE, FREE OF ALL EXISTING ITEMS NOTED TO BE REMOVED IN ORDER TO PERMIT THE CONSTRUCTION OF THE NEW PROJECT.
7. WHERE EXISTING ITEMS ARE SHOWN TO REMAIN, CARE SHOULD BE TAKEN TO INSURE PROTECTION OF THAT ITEM FROM DAMAGE. ANY ITEMS DISTURBED BY CONTRACTOR SHALL BE REPLACED BY THE CONTRACTOR AT HIS EXPENSE TO A CONDITION EQUAL TO OR BETTER THAN EXISTING AND TO THE SATISFACTION OF THE OWNER OF THE ITEM.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MEANS, METHODS, AND MATERIALS OF CONSTRUCTION TO COMPLETE PROPOSED CONSTRUCTION.
9. ANY APPARENT DISCREPANCIES OR QUESTIONS IN CONTRACT DOCUMENTS ARE TO BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVES IMMEDIATELY.
10. TRAFFIC SHALL BE MAINTAINED ON ALL ADJOINING STREETS AT ALL TIMES. TRAFFIC CONTROL SHALL BE MAINTAINED IN ACCORDANCE WITH THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
11. THE DESIGN ENGINEER SHALL NOT BE RESPONSIBLE FOR THE MEANS, METHODS, PROCEDURES, TECHNIQUES, OR SEQUENCES OF CONSTRUCTION NOT SPECIFIED HEREIN, NOR FOR THE SAFETY ON THE JOB SITE, NOR SHALL THE DESIGN ENGINEER BE RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
12. ANY MODIFICATIONS TO THE WORK SHOWN ON THE PLANS MUST HAVE PRIOR WRITTEN APPROVAL FROM THE OWNER AND REVIEW AGENCIES.

GENERAL NOTES – EARTHWORK

1. THE CONTRACTOR SHALL INSTALL ALL SEDIMENTATION CONTROLS TO MINIMIZE SOIL EROSION AND OFF-SITE SILTATION BEFORE ANY CLEARING, GRUBBING OR EARTHWORK HAS BEGUN. REFERENCE THE STORMWATER POLLUTION PREVENTION PLAN FOR EROSION CONTROL STRUCTURES AND SPECIFICATIONS.
2. ALL TIMBER, LOGS, BRUSH, RUBBISH, AND VEGETATIVE MATTER WHICH WILL INTERFERE WITH THE GRADING OPERATION OR AFFECT THE PLANNED STABILITY OF FILL AREAS SHALL BE REMOVED FROM THE PROJECT CONSTRUCTION AREA.
3. ANY UNSUITABLE SOILS ENCOUNTERED IN PROPOSED PAVEMENT AREAS SHALL BE REMOVED AND REPLACED WITH COMPACTED MATERIAL APPROVED BY THE ENGINEER.
4. THE CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE AT ALL TIMES AND SHALL BACKFILL AND GRADE EXCAVATED AREAS SO AS TO ELIMINATE PONDING ON THE SITE.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE IMPORTATION OF ANY BORROW MATERIAL NECESSARY TO COMPLETE THE JOB.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE OFF-SITE DISPOSAL OF ANY AND ALL EXCESS OR UNSUITABLE MATERIAL NOT USED ON THE JOB SITE.
7. PROPOSED PAVEMENT AREAS ARE TO BE PROOF-ROLLED PER SPECIFICATIONS IMMEDIATELY PRIOR TO CONSTRUCTION. IF ANY AREAS ARE FOUND TO BE "SOFT" OF "SPONGY", THE CONTRACTOR IS TO COORDINATE THE REMOVAL OR PROCEDURE WITH THE GEOTECHNICAL ENGINEER.
8. PROPOSED ELEVATIONS SHOWN SHALL NOT BE CHANGED WITHOUT APPROVAL OF THE ENGINEER.
9. TOPSOIL SHALL BE STRIPPED AND STOCKPILED FOR USE IN FINAL LANDSCAPING AND IN AREAS SELECTED BY OWNER.
10. UNLESS OTHERWISE INDICATED AT A SPECIFIC LOCATION, ALL FINISHED GRADES AT THE LIMITS OF NEW WORK ARE TO CONFORM TO AND MATCH EXISTING GRADES.
11. SITE GRADING SHALL PROVIDE POSITIVE DRAINAGE TO CATCH BASINS OR SHEET FLOW OFF OF AREAS, THUS PREVENTING THE PONDING OF WATER ON SITE.
12. PRIOR TO PLACEMENT OF ANY COMPACTED FILLS, PROCTOR CURVES SHALL BE ESTABLISHED FROM PROPOSED BORROW MATERIAL SAMPLES.
13. PRIOR TO PAVING, THE SUBGRADE SHALL BE TESTED WITH A FULLY LOADED TANDEM AXLE DUMP TRUCK FURNISHED BY THE CONTRACTOR. ANY YIELDING AREAS IN THE SUBGRADE SHALL BE REMOVED AND/OR REPLACED PER THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS.
14. ALL COMPACTED FILLS RELATED TO THE CONSTRUCTION OF THE PROPOSED PROJECT SHALL BE PLACED IN ACCORDANCE WITH ODOT ITEM 203. DURING CONSTRUCTION, THESE COMPACTED FILLS SHALL BE TESTED USING THE NUCLEAR DENSOMETER METHOD. COMPACTION REQUIREMENT SHALL BE IN ACCORDANCE WITH THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS.

UTILITY NOTES

1. UTILITIES SHOWN WERE TAKEN FROM RECORDS OF RESPECTIVE UTILITY COMPANIES AND FROM A TOPOGRAPHIC SURVEY AND DO NOT NECESSARILY REPRESENT ALL UNDERGROUND OR OVERHEAD UTILITIES ADJACENT TO OR UPON THE PREMISES SHOWN ON THE PLAN. CALL OUPS PRIOR TO EXCAVATION.
2. ANY UTILITIES FOUND DURING EXCAVATION, NOT SHOWN ON THESE PLANS, SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER.
3. EXISTING UTILITIES TO REMAIN, WHICH ARE CRUSHED OR DAMAGED DURING CONSTRUCTION, SHALL BE REPLACED AT CONTRACTOR'S EXPENSE.
4. EACH SUBCONTRACTOR SHALL OBTAIN THEIR OWN PERMITS AND CONTACT THE UTILITY COMPANY FOR VERIFICATION AND LOCATION OF HOOK-UP PRIOR TO ANY WORK BEING DONE.
5. WATER:

ALL WATER SERVICE LATERALS 2 INCHES AND SMALLER SHALL BE TYPE "K" COPPER; SERVICE LATERALS LARGER THAN 2 INCHES SHALL BE DUCTILE IRON PIPE; ALL WATER LATERALS SHALL HAVE 5 FEET (MIN) OF COVER. ALL BACKFLOW PREVENTION DEVICES SHALL BE APPROVED BY THE LOCAL WATER DEPARTMENT.

THE MECHANICAL/PLUMBING DESIGNER IS TO ENSURE THAT ADEQUATE PRESSURE AND CAPACITY IS AVAILABLE TO SERVICE THE SITE. EXISTING WATER MAIN PRESSURE & CAPACITY IS UNKNOWN AT THIS TIME.
6. STORM:

ALL STORM SEWERS SHALL CONFORM TO ODOT ITEM 707.33 OR ITEM 707.45.

ALL CATCH BASINS SHALL BE CONSTRUCTED AS SHOWN ON THESE DRAWINGS AND DETAILED PER THE ODOT STANDARD DRAWINGS AND CURRENT CONSTRUCTION AND MATERIAL SPECIFICATIONS. CATCH BASIN GRATES WITHIN PAVEMENT TO BE TRAFFIC BEARING.

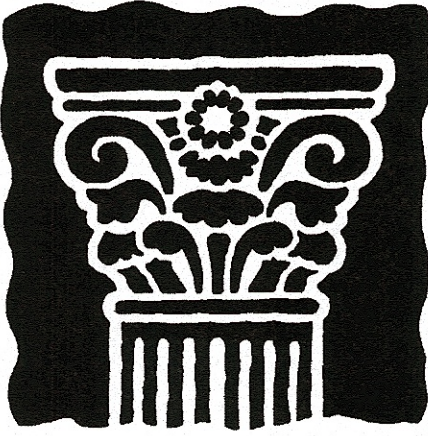
DOWNSPOUTS TO CONNECT DIRECTLY TO THE STORM SEWER SYSTEM WITH A MINIMUM 6" DIAMETER PIPE WITH A MINIMUM 1% SLOPE. REFER TO ARCHITECTURAL PLANS FOR EXACT DOWNSPOUT LOCATION.
7. SANITARY:

SANITARY LATERAL SHALL BE A MINIMUM 6" DIAMETER PVC PIPE, ASTM D3034, SDR35, WITH RUBBER GASKET JOINTS OR APPROVED EQUAL. LATERAL SHALL BE CONSTRUCTED WITH A MINIMUM OF 1% SLOPE (10% MAX), AND HAVE A MINIMUM OF 4 FOOT OF COVER.

ROOF DRAINS, FOUNDATION DRAINS AND OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEWER ARE PROHIBITED.

THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE SLOPE OF BUILDING SEWERS TOWARDS THE LATERAL SEWER IN STRICT ACCORDANCE WITH THE GOVERNING AUTHORITIES.

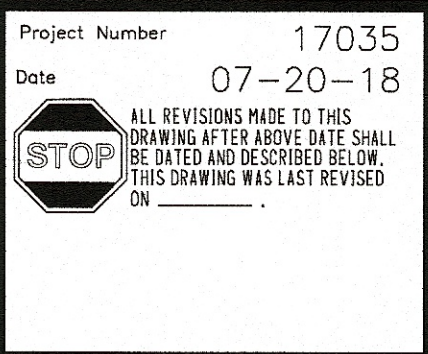
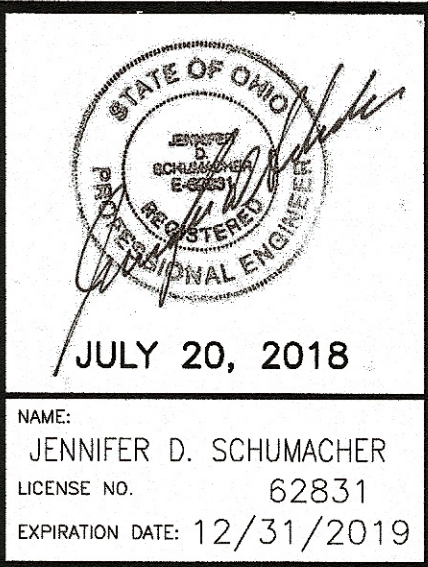
CLEAN-OUTS TO BE INSTALLED AT ALL PIPE BENDS AND ANGLES, UNLESS A MANHOLE IS INDICATED.
8. THE CONTRACTOR SHALL VERIFY THE SIZE, LOCATION, INVERT ELEVATION, AND CONDITION OF ALL EXISTING UTILITIES AT THE POINT OF CONNECTIONS PRIOR TO ANY INSTALLATION. THE CONTRACTOR IS TO ENSURE EXISTING UTILITIES ARE IN GOOD WORKING ORDER. IF ELEVATIONS DIFFER FROM WHAT IS SHOWN ON THIS DRAWING, THE CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY PRIOR TO ANY CONSTRUCTION.
9. 10 FT-HORIZONTAL AND 1.5 FT-VERTICAL (MINIMUM) CLEARANCE IS REQUIRED BETWEEN SANITARY, STORM & WATER LINES.
10. ELECTRIC LINES SHOWN FOR REFERENCE ONLY AND ARE DESIGNED BY OTHERS. CONTRACTOR TO INSTALL PER RESPECTIVE UTILITY APPROVED SET OF PLANS.
11. COORDINATE UTILITY CONNECTIONS AT THE BUILDING WITH THE MECHANICAL DRAWINGS.



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NOTE TO CONTRACTORS:
ALL CONTRACTORS ARE RESPONSIBLE FOR ALL DRAWINGS LISTED IN THE INDEX ON DRAWING T-1, AS WELL AS ALL RELATED SPECIFICATION SECTIONS. IF YOU PREPARE A BID OR CONSTRUCT WITHOUT THE USE OF ALL THE DOCUMENTS PROVIDED, YOU DO SO AT YOUR OWN RISK.

PROPOSED CONCESSIONS/RESTROOM
FACILITY AND STORAGE BUILDING FOR
MASSILLON CITY
SCHOOL DISTRICT
MASSILLON MIDDLE SCHOOL
250 29TH STREET NORTHWEST
MASSILLON, OHIO 44647



C-4


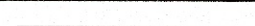
ARE YOU USING THE ENTIRE SET OF DRAWINGS?
HAVE YOU INCORPORATED ALL ISSUED ADDENDUMS AND REVISIONS?
BE SURE TO COORDINATE THE LOCATION OF ALL FINISH MECHANICAL, ELECTRICAL, AND ARCHITECTURAL DEVICES/EQUIPMENT WITH THE ARCHITECT/OWNER BEFORE YOU ROUGH THEM IN.



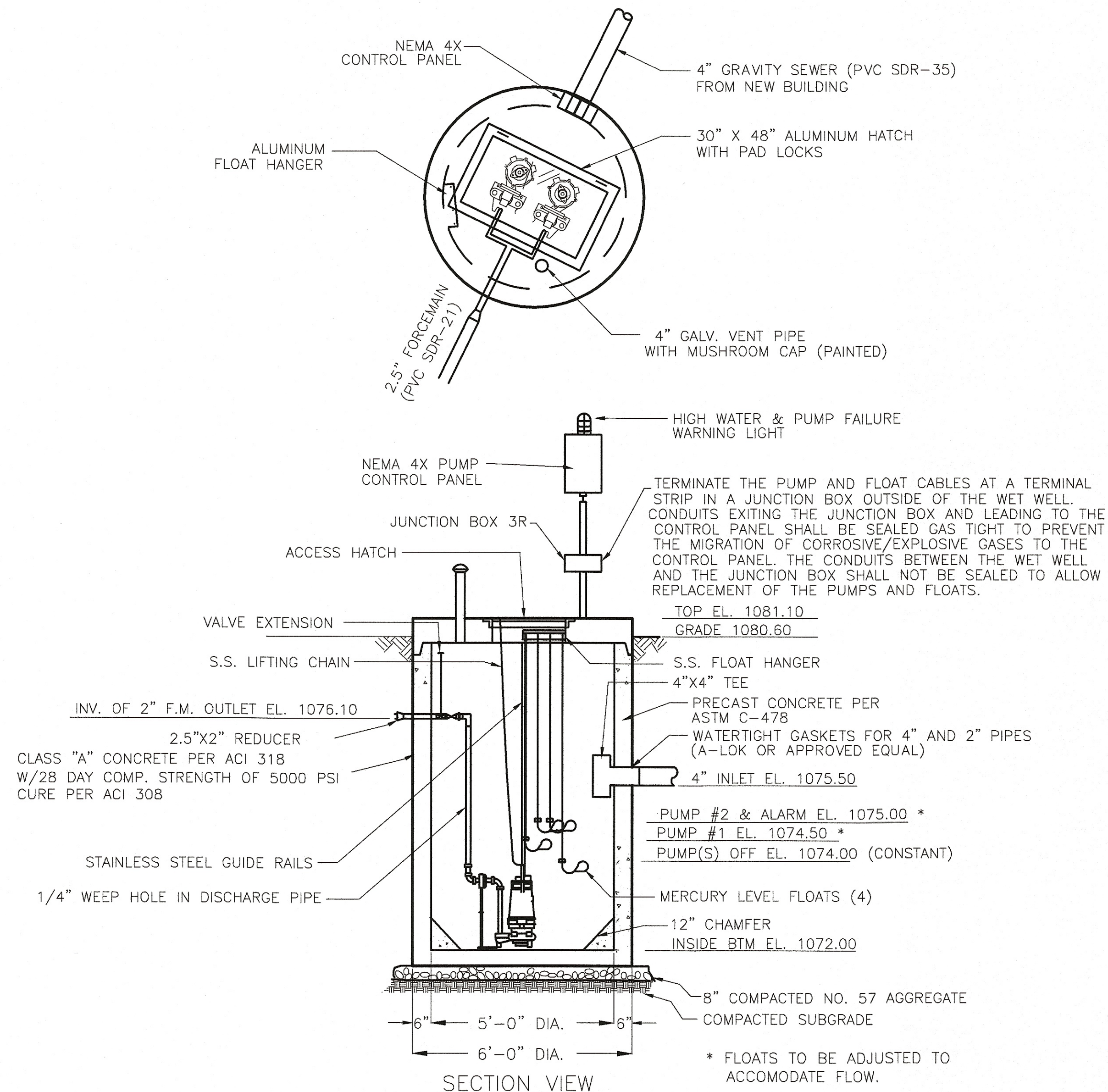
1. SEE UTILITY NOTES ON SHEET C-4.
2. WATER MAIN PRESSURE TESTING SHALL CONFORM TO AWWA C-600.
3. WATER MAIN DISINFECTION SHALL CONFORM TO AWWA C-651.
4. MINIMUM COVER OVER WATERLINES SHALL BE FOUR (4) FT.
5. BACKFILLING BELOW OR WITHIN 3 FT OF EXISTING OR PROPOSED ROADWAY, DRIVEWAY, SIDEWALK OR WALL SHALL BE TYPE 1 OR TYPE 2 STRUCTURAL BACKFILL IN ACCORDANCE WITH THE BACKFILL REQUIRED FOR STORM SEWER, ODOT ITEM 703.11.
6. ALL PIPE JOINTS WITHIN 40 LF OF ANY DEAD END SHALL BE RESTRAINED BY USING FIELD LOCK GASKETS, OR MEGA LUGS ON MECHANICAL JOINTS. ALL PIPE JOINTS WITHIN 40 LF OF ANY BEND, FITTING, VALVE OR TEE SHALL ALSO BE RESTRAINED BY USING FIELD LOCK GASKETS OR MEGA LUGS. IN ADDITION, POURED-IN-PLACE CONCRETE THRUST BLOCKS SHALL BE PROVIDED AT ALL BENDS, TEES AND PLUGS TO PREVENT MOVEMENT OF THE WATER LINE. BLOCKING SHALL BE CAREFULLY PLACED TO ENSURE IT IS POSITIONED PROPERLY TO WITHSTAND THE RESULTANT FORCES AT EACH BEND, FITTING, ETC. AND SHALL BEAR ON STABLE UNDISTURBED GROUND CAPABLE OF WITHSTANDING THE POTENTIAL LOAD.
7. A PRESSURE REDUCING VALVE WILL BE NEEDED AFTER EACH METER.

ITEM	DESCRIPTION	PART NO.	REQ'D
1	1-1/2" LOCKING FULL PORT BALL VALVE	B2428601N	2
2	RISER SUB ASSEMBLY		2
3	STABILIZING BRACKET		2
4	24" SHELL SUB-ASSEMBLY		1
5	1-1/2" HEX NUTS		4
6	1-1/2" ELBOW		2
7	1-1/2" NIPPLE		2
8	CAST IRON FRAME	700098-1	----
9	18" DIA CAST IRON LID	790119	----
10	24" X 4" INSULATING PAD	790325	----
11	METER (NOT INCLUDED)		----

[illegible]

DRFT'R	BBF	3/23/18	THIRD ANGLE PROJECTION 	REF. NO.	SCALE NONE
CHK'R				STOCK No.	REV. NUMBER 500VS2446FHN SHEET 1 OF 1
E.O. NUMBER					
			DESCR.		
			1-1/2" VALVE SINGLE METER PIT 2" DIA. 64" DEPTH LOW LEAD BRASS		

SCALE: N.T.S.



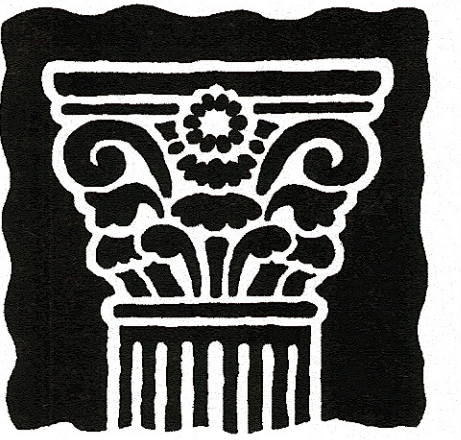
SCALE: N.T.S

1. CONTRACTOR SHALL PROVIDE ELECTRICAL SUPPLY TO PROPOSED PUMP STATION AND CONTROL PANEL. CONTROL PANELS SHALL BE NEMA 4X.
2. PUMP STATION: FOR TWO (2) PUMPS; CONTROL PANEL WITH PUMP ALTERNATION, RUN TIME METER ON EACH PUMP, PUMP FAILURE INDICATOR, OFF-ON-AUTOMATIC SWITCH, ALARM (AUDIO/VISUAL) FOR POWER AND PUMP FAILURE, AND CONNECTION FOR LEVEL FLOATS; PORTABLE GENERATOR CONNECTION WITH TRANSFER SWITCH INSIDE PANEL.
3. PUMPS (2): HYDROMATIC HPGX200M2-2, 2HP, 230 VOLT, 1-PHASE, 60HZ, 3450 RPM, 1.25" DISCHARGE, 4" DIAMETER IMPELLER; 35 GPM @ 28' TDH; 2" DISCHARGE BASE ELBOW AND PUMP FLANGE WITH REMOVABLE CHECK VALVE (TL-PRO-CV LIFTOUT); ANTI-SIPHON VALVE.

ARE YOU USING THE ENTIRE SET OF DRAWINGS?
HAVE YOU INCORPORATED ALL ISSUED ADDENDUMS AND REVISIONS?
BE SURE TO COORDINATE THE LOCATION OF ALL FINISH-MECHANICAL, ELECTRICAL, AND ARCHITECTURAL DEVICES/EQUIPMENT WITH THE ARCHITECT/ OWNER BEFORE YOU ROUGH THEM IN.



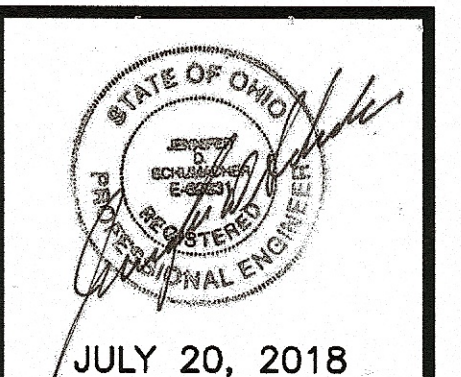
SCALE: N.T.S.



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
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MASSILLON MIDDLE SCHOOL
250 29TH STREET NORTHWEST
MASSILLON, OHIO 44647



NAME: JENNIFER D. SCHUMACHER
 LICENSE NO. 62831
 EXPIRATION DATE: 12/31/2019

Project Number 17035
Date 07-20-18

 ALL REVISIONS MADE TO THIS
DRAWING AFTER ABOVE DATE SHALL
BE DATED AND DESCRIBED BELOW.
THIS DRAWING WAS LAST REVISED
ON

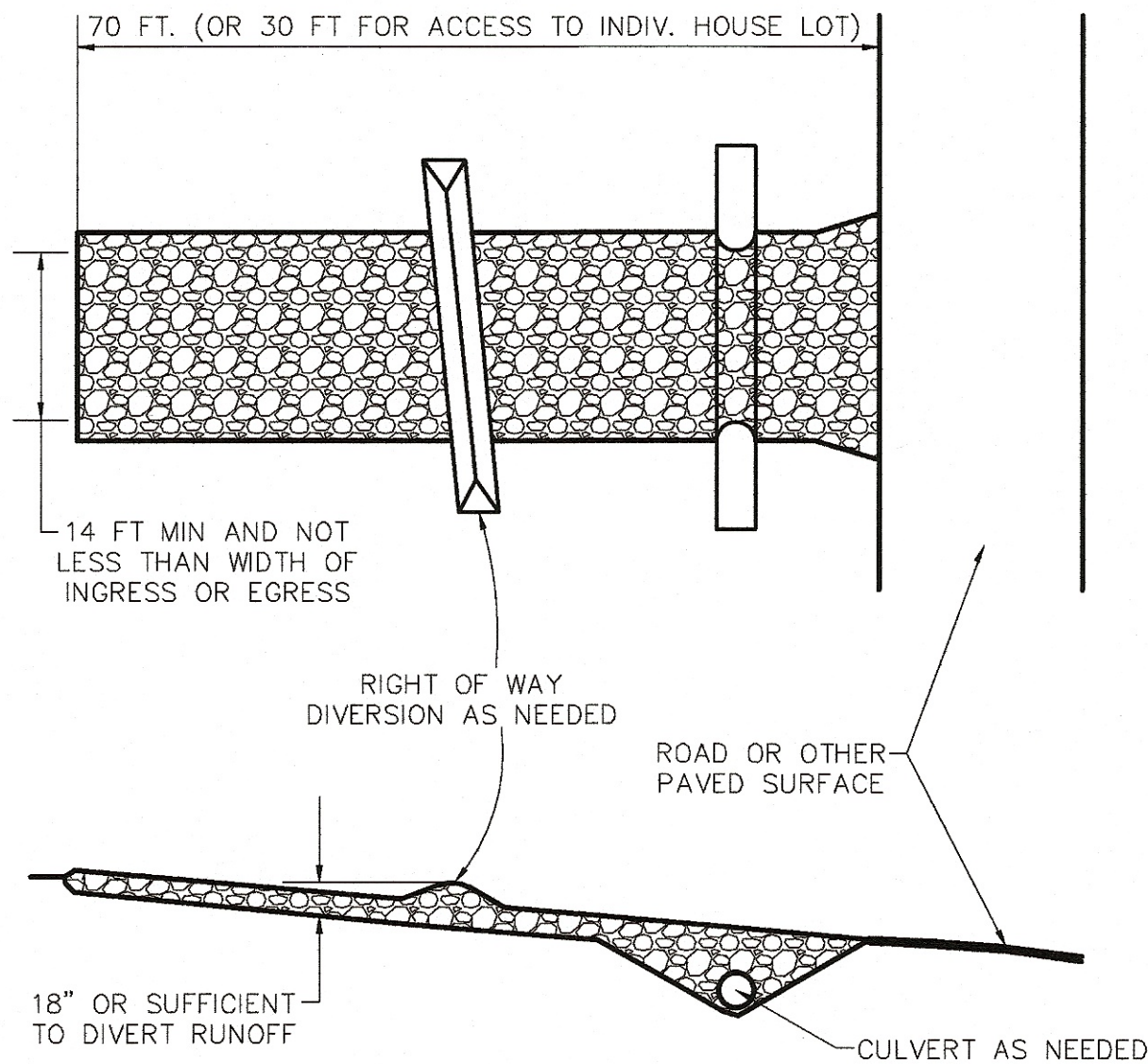
C-5

NOTE: CONSTRUCTION ENTRANCE IS TO BE CONSTRUCTED OVER EXISTING TRACK AND FIELD CONSTRUCTION ENTRANCE.

CONSTRUCTION ENTRANCE
N.T.S.

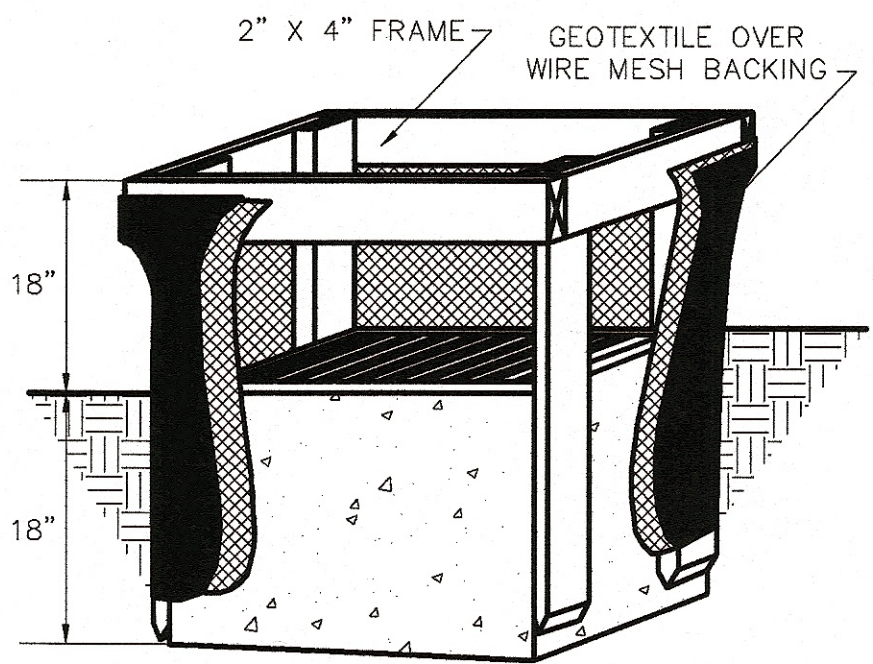
- STONE SIZE: ODOT # 2 (1.5–2.5 INCH) STONE SHALL BE USED, OR RECYCLED CONCRETE EQUIVALENT.
- THE CONSTRUCTION ENTRANCE SHALL BE AS LONG AS REQUIRED TO STABILIZE HIGH TRAFFIC AREAS BUT NOT LESS THAN 70 FT. (EXCEPTION: APPLY 30 FT. MINIMUM TO SINGLE RESIDUAL LOTS).
- THICKNESS: THE STONE LAYER SHALL BE AT LEAST 18 INCHES THICK FOR LIGHT OR HEAVY DUTY USE.
- THE ENTRANCE SHALL BE AT LEAST 20 FEET WIDE, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
- GEOTEXTILE: A GEOTEXTILE SHALL BE LAID OVER THE ENTIRE AREA PRIOR TO PLACING STONE. IT SHALL BE COMPOSED OF STRONG ROT-PROOF POLYMERIC FIBERS AND MEET THE FOLLOWING SPECIFICATIONS:

MINIMUM TENSILE STRENGTH	200 LBS.	MINIMUM PUNCTURE STRENGTH	80 PSI.
MINIMUM TEAR STRENGTH	50 LBS.	MINIMUM BURST STRENGTH	320 PSI.
MINIMUM ELONGATION	20%	EQUIVALENT OPENING SIZE	EOS < 0.6 MM.
PERMITIVITY	1X10–3 CM/SEC.		
- TIMING: THE CONSTRUCTION ENTRANCE SHALL BE INSTALLED AS SOON AS IS PRACTICABLE BEFORE MAJOR GRADING ACTIVITIES.
- CULVERT: A PIPE OR CULVERT SHALL BE CONSTRUCTED UNDER THE ENTRANCE IF NEEDED TO PREVENT SURFACE WATER FROM FLOWING ACROSS THE ENTRANCE OR TO PREVENT RUNOFF FROM BEING DIRECTED OUT ONTO PAVED SURFACES.
- WATER BAR: A WATER BAR SHALL BE CONSTRUCTED AS PART OF THE CONSTRUCTION ENTRANCE IF NEEDED TO PREVENT SURFACE RUNOFF FROM FLOWING THE LENGTH OF THE CONSTRUCTION ENTRANCE AND OUT ONTO PAVED SURFACES.
- MAINTENANCE: TOP DRESSING OF ADDITIONAL STONE SHALL BE APPLIED AS CONDITIONS DEMAND. MUD SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC ROADS, OR ANY SURFACE WHERE RUNOFF IS NOT CHECKED BY SEDIMENT CONTROLS, SHALL BE REMOVED IMMEDIATELY. REMOVAL SHALL BE ACCOMPLISHED BY SCRAPING OR SWEEPING.
- CONSTRUCTION ENTRANCES SHALL NOT BE RELIED UPON TO REMOVE MUD FROM VEHICLES AND PREVENT OFF-SITE TRACKING. VEHICLES THAT ENTER AND LEAVE THE CONSTRUCTION-SITE SHALL BE RESTRICTED FROM MUDDY AREAS.
- REMOVAL: THE ENTRANCE SHALL REMAIN IN PLACE UNTIL THE DISTURBED AREA IS STABILIZED OR REPLACED WITH A PERMANENT ENTRANCE.



GEOTEXTILE INLET PROTECTION
N.T.S.

- INLET PROTECTION SHALL BE CONSTRUCTED EITHER BEFORE UPSLOPE LAND DISTURBANCE BEGINS OR BEFORE THE INLET BECOMES FUNCTIONAL.
- THE EARTH AROUND THE INLET SHALL BE EXCAVATED COMPLETELY TO A DEPTH AT LEAST 18 INCHES.
- THE WOODEN FRAME SHALL BE CONSTRUCTED OF 2-INCH BY 4-INCH CONSTRUCTION GRADE LUMBER. THE 2-INCH BY 4-INCH POSTS SHALL BE DRIVEN ONE (1) FT. INTO THE GROUND AT FOUR CORNERS OF THE INLET AND THE TOP PORTION OF 2-INCH BY 4-INCH FRAME ASSEMBLED USING THE OVERLAP JOINT SHOWN. THE TOP OF THE FRAME SHALL BE AT LEAST 6 INCHES BELOW ADJACENT ROADS IF PONDED WATER WILL POSE A SAFETY HAZARD TO TRAFFIC.
- WIRE MESH SHALL BE OF SUFFICIENT STRENGTH TO SUPPORT FABRIC WITH WATER FULLY IMPOUNDED AGAINST IT. IT SHALL BE STRETCHED TIGHTLY AROUND THE FRAME AND FASTENED SECURELY TO THE FRAME.
- GEOTEXTILE MATERIAL SHALL HAVE AN EQUIVALENT OPENING SIZE OF 20–40 SIEVE AND BE RESISTANT TO SUNLIGHT. IT SHALL BE STRETCHED TIGHTLY AROUND THE FRAME AND FASTENED SECURELY. IT SHALL EXTEND FROM THE TOP OF THE FRAME TO 18 INCHES BELOW THE INLET NOTCH ELEVATION. THE GEOTEXTILE SHALL OVERLAP ACROSS ONE SIDE OF THE INLET SO THE ENDS OF THE CLOTH ARE NOT FASTENED TO THE SAME POST.
- BACKFILL SHALL BE PLACED AROUND THE INLET IN COMPACTED 6-INCH LAYERS UNTIL THE EARTH IS EVEN WITH NOTCH ELEVATION ON ENDS AND TOP ELEVATION ON SIDES.
- A COMPACTED EARTH DIKE OR CHECK DAM SHALL BE CONSTRUCTED IN THE DITCH LINE BELOW THE INLET IF THE INLET IS NOT IN A DEPRESSION. THE TOP OF THE DIKE SHALL BE AT LEAST 6 INCHES HIGHER THAN THE TOP OF THE FRAME.



CONCRETE WASHOUT FACILITY
N.T.S.

NOTES:
TEMPORARY CONCRETE WASHOUT FACILITIES SHOULD BE LOCATED A MINIMUM OF 50 FT FROM STORM DRAIN INLETS, OPEN DRAINAGE FACILITIES, AND WATERCOURSES. EACH FACILITY SHOULD BE LOCATED AWAY FROM CONSTRUCTION TRAFFIC OR ACCESS AREAS TO PREVENT DISTURBANCE OR TRACKING.

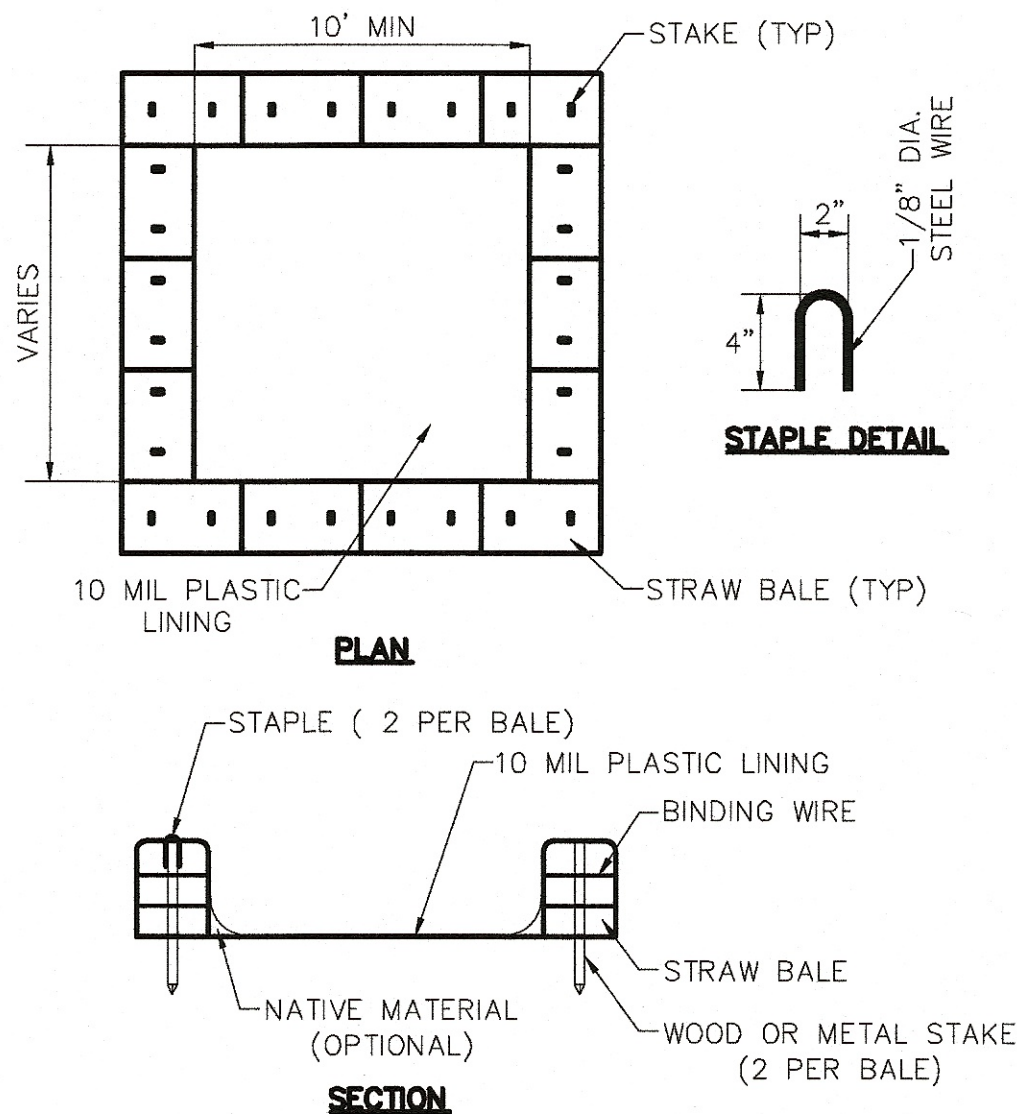
A SIGN SHOULD BE INSTALLED ADJACENT TO EACH WASHOUT FACILITY TO INFORM CONCRETE EQUIPMENT OPERATORS TO UTILIZE THE PROPER FACILITIES.

TEMPORARY CONCRETE WASHOUT FACILITIES SHOULD BE CONSTRUCTED ABOVE GRADE OR BELOW GRADE AT THE OPTION OF THE CONTRACTOR. TEMPORARY CONCRETE WASHOUT FACILITIES SHOULD BE CONSTRUCTED AND MAINTAINED IN SUFFICIENT QUANTITY AND SIZE TO CONTAIN ALL LIQUID AND CONCRETE WASTE GENERATED BY WASHOUT OPERATIONS.

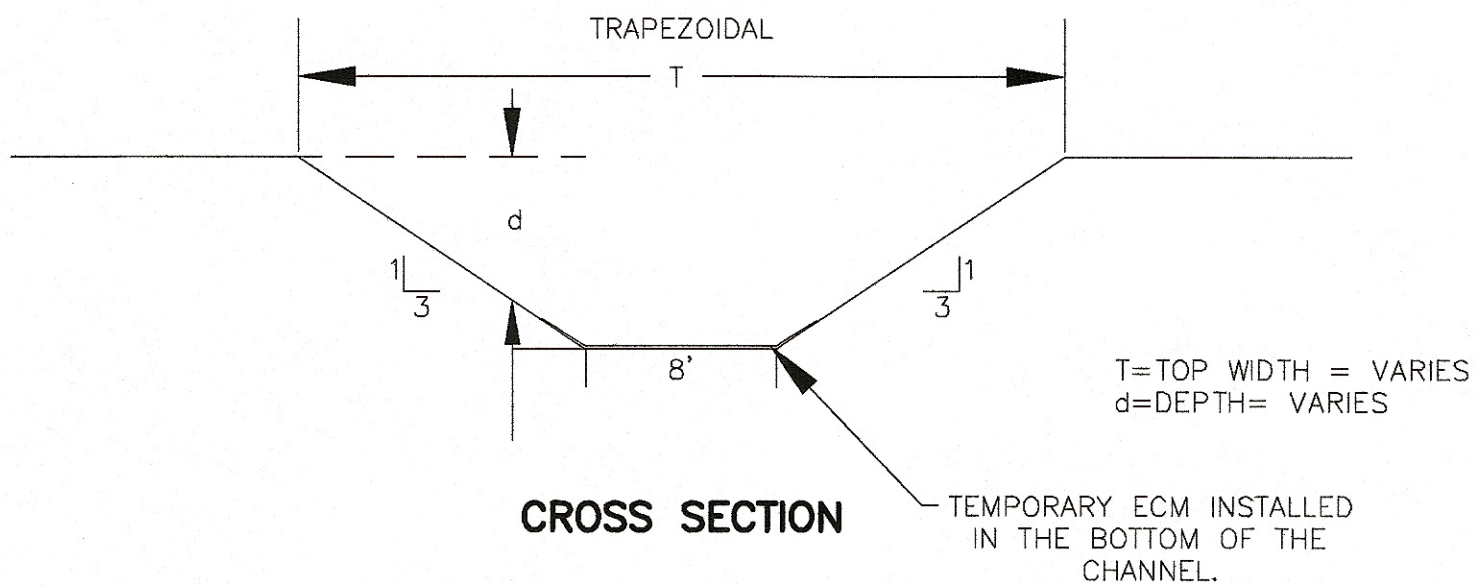
ONLY CONCRETE FROM MIXER TRUCK CHUTES SHOULD BE WASHED INTO CONCRETE WASH OUT.

CONCRETE WASHOUT FROM CONCRETE PUMPER BINS CAN BE WASHED INTO CONCRETE PUMPER TRUCKS AND DISCHARGED INTO DESIGNATED WASHOUT AREA OR PROPERLY DISPOSED OF OFFSITE.

ONCE CONCRETE WASTES ARE WASHED INTO THE DESIGNATED AREA AND ALLOWED TO HARDEN, THE CONCRETE SHOULD BE BROKEN UP, REMOVED, AND DISPOSED OF ON A REGULAR BASIS.



GRASSSED SWALE



- ALL TREES, BRUSH, STUMPS, AND OTHER UNSUITABLE MATERIAL SHALL BE REMOVED FROM THE SITE.
- THE CHANNEL SHALL BE EXCAVATED AND SHAPED TO THE PROPER GRADE AND CROSS SECTION.
- FILL MATERIAL USED IN THE CONSTRUCTION OF THE CHANNEL SHALL BE WELL COMPACTED IN UNIFORM LAYERS NOT EXCEEDING 9 INCHES USING THE WHEEL TREADS OR TRACKS OF THE CONSTRUCTION EQUIPMENT TO PREVENT UNEQUAL SETTLEMENT.
- EXCESS EARTH SHALL BE GRADED OR DISPOSED OF SO THAT IT WILL NOT RESTRICT FLOW TO THE CHANNEL OR INTERFERE WITH ITS FUNCTIONING.
- STABILIZATION SHALL BE DONE ACCORDING TO THE APPROPRIATE SPECIFICATIONS FOR PERMANENT SEEDING, VEGETATIVE PRACTICES, SODDING AND MATTING.
- CONSTRUCTION SHALL BE SEQUENCED SO THAT NEWLY CONSTRUCTED CHANNELS ARE STABILIZED PRIOR TO BECOMING OPERATIONAL. TO AID IN THE ESTABLISHMENT OF VEGETATION, SURFACE WATER MAY BE PREVENTED FROM ENTERING THE NEWLY CONSTRUCTED CHANNEL THROUGH THE ESTABLISHMENT PERIOD.
- GULLIES THAT MAY FORM IN THE CHANNEL OR OTHER EROSION DAMAGE THAT OCCURS BEFORE THE GRASS LINING BECOMES ESTABLISHED SHALL BE REPAIRED WITHOUT DELAY.

SILT FENCE
N.T.S.

- SILT FENCE SHALL BE CONSTRUCTED BEFORE UPSLOPE LAND DISTURBANCE BEGINS.
- ALL SILT FENCE SHALL BE PLACED AS CLOSE TO THE CONTOUR AS POSSIBLE SO THAT WATER WILL NOT CONCENTRATE AT LOW POINTS IN THE FENCE AND SO THAT SMALL SWALES OR DEPRESSIONS THAT MAY CARRY SMALL CONCENTRATED FLOWS TO THE SILT FENCE ARE DISSIPATED ALONG ITS LENGTH.
- ENDS OF THE SILT FENCES SHALL BE BROUGHT UPSLOPE SLIGHTLY SO THAT WATER PONDED BY THE SILT FENCE WILL BE PREVENTED FROM FLOWING AROUND THE ENDS.
- SILT FENCE SHALL BE PLACED ON THE FLATTEST AREA AVAILABLE.
- WHERE POSSIBLE, VEGETATION SHALL BE PRESERVED FOR 5 FEET (OR AS MUCH AS POSSIBLE) UPSLOPE FROM THE SILT FENCE. IF VEGETATION IS REMOVED, IT SHALL BE REESTABLISHED WITHIN 7 DAYS FROM THE INSTALLATION OF THE SILT FENCE.
- THE HEIGHT OF THE SILT FENCE SHALL BE A MINIMUM OF 16 INCHES ABOVE THE ORIGINAL GROUND SURFACE.
- THE SILT FENCE SHALL BE PLACED IN AN EXCAVATED OR SLICED TRENCH CUT A MINIMUM OF 6 INCHES DEEP. THE TRENCH SHALL BE MADE WITH A TRENCHER, CABLE LAYING MACHINE, SLICING MACHINE, OR OTHER SUITABLE DEVICE THAT WILL ENSURE AN ADEQUATELY UNIFORM TRENCH DEPTH.
- THE SILT FENCE SHALL BE PLACED WITH THE STAKES ON THE DOWNSLOPE SIDE OF THE GEOTEXTILE. A MINIMUM OF 8 INCHES OF GEOTEXTILE MUST BE BELOW THE GROUND SURFACE. EXCESS MATERIAL SHALL LAY ON THE BOTTOM OF THE 6-INCH DEEP TRENCH. THE TRENCH SHALL BE BACKFILLED AND COMPACTED ON BOTH SIDES OF THE FABRIC.
- SEAMS BETWEEN SECTIONS OF SILT FENCE SHALL BE SPliced TOGETHER ONLY AT A SUPPORT POST WITH A MINIMUM 6-IN. OVERLAP PRIOR TO DRIVING INTO THE GROUND, (SEE DETAILS).
- MAINTENANCE—SILT FENCE SHALL ALLOW RUNOFF TO PASS ONLY AS DIFFUSE FLOW THROUGH THE GEOTEXTILE. IF RUNOFF OVERFS20 TOPS THE SILT FENCE, FLOWS UNDER THE FABRIC OR AROUND THE FENCE ENDS, OR IN ANY OTHER WAY ALLOWS A CONCENTRATED FLOW DISCHARGE, ONE OF THE FOLLOWING SHALL BE PERFORMED, AS APPROPRIATE: 1) THE LAYOUT OF THE SILT FENCE SHALL BE CHANGED, 2) ACCUMULATED SEDIMENT SHALL BE REMOVED, OR 3) OTHER PRACTICES SHALL BE INSTALLED.

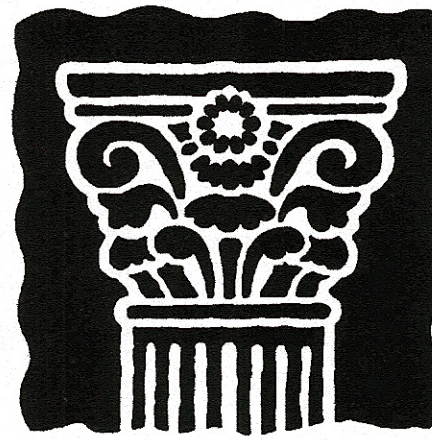
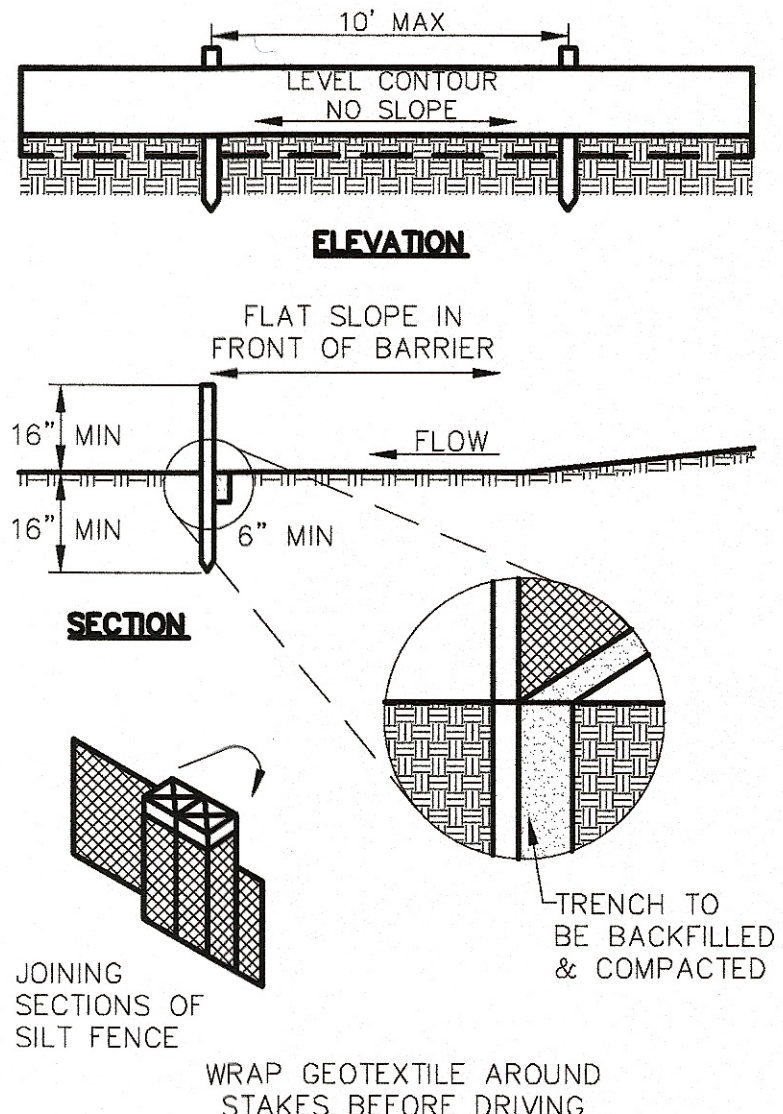
SEDIMENT DEPOSITS SHALL BE ROUTINELY REMOVED WHEN THE DEPOSIT REACHES APPROXIMATELY ONE-HALF OF THE HEIGHT OF THE SILT FENCE.

SILT FENCES SHALL BE INSPECTED AFTER EACH RAINFALL AND AT LEAST DAILY DURING A PROLONGED RAINFALL. THE LOCATION OF EXISTING SILT FENCE SHALL BE REVIEWED DAILY TO ENSURE ITS PROPER LOCATION AND EFFECTIVENESS. IF DAMAGED, THE SILT FENCE SHALL BE REPAIRED IMMEDIATELY.

CRITERIA FOR SILT FENCE MATERIALS

- FENCE POST — THE LENGTH SHALL BE A MINIMUM OF 32 INCHES. WOOD POSTS WILL BE 2-BY-2-IN. NOMINAL DIMENSIONED HARDWOOD OF SOUND QUALITY. THEY SHALL BE FREE OF KNOTS, SPLITS AND OTHER VISIBLE IMPERFECTIONS, THAT WILL WEAKEN THE POSTS. THE MAXIMUM SPACING BETWEEN POSTS SHALL BE 10 FT. POSTS SHALL BE DRIVEN A MINIMUM 18 INCHES INTO THE GROUND, WHERE POSSIBLE. IF NOT POSSIBLE, THE POSTS SHALL BE ADEQUATELY SECURED TO PREVENT OVERTURNING OF THE FENCE DUE TO SEDIMENT/WATER LOADING.
- SILT FENCE FABRIC — SEE CHART BELOW.

FABRIC PROPERTIES	VALUES	TEST METHOD
MIN TENSILE STRENGTH	120 LBS	ASTM D 4632
MAX. ELONGATION AT 60 LBS	50%	ASTM D 4632
MIN. PUNCTURE STRENGTH	50 LBS	ASTM D 4833
MIN. TEAR STRENGTH	40 LBS	ASTM D 4533
APPARENT OPENING SIZE	0.84 MM	ASTM D 4751
UV EXPOSURE STRENGTH	70%	ASTM G 4355
MIN. PERMITIVITY	1X10–2SEC.-1	ASTM D 4491



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SCHOOL DISTRICT
MASSILLON MIDDLE SCHOOL
250 29TH STREET NORTHWEST
MASSILLON, OHIO 44647



STATE OF OHIO
JULY 20, 2018

NAME:
JENNIFER D. SCHUMACHER
LICENSE NO. 62831
EXPIRATION DATE: 12/31/2019

Project Number 17035
Date 07-20-18
ALL REVISIONS MADE TO THIS DRAWING AFTER ABOVE DATE SHALL BE DATED AND DESCRIBED BELOW. THIS DRAWING WAS LAST REVISED ON

C-6

ARE YOU USING THE ENTIRE SET OF DRAWINGS?
HAVE YOU INCORPORATED ALL ISSUED ADDENDUMS AND REVISIONS?
BE SURE TO COORDINATE THE LOCATION OF ALL FINISH MECHANICAL, ELECTRICAL, AND ARCHITECTURAL DEVICES/EQUIPMENT WITH THE ARCHITECT/ OWNER BEFORE YOU ROUGH THEM IN



TEMPORARY SEEDING

SEEDING DATES	SPECIES	LB./1000 FT2	LB./ACRE
MARCH 1 TO AUGUST 15	OATS	3	128
	TALL FESCUE	1	40
	ANNUAL RYEGRASS	1	40
	PERENNIAL RYEGRASS	1	40
	TALL FESCUE	1	40
	ANNUAL RYEGRASS	1	40
	ANNUAL RYEGRASS	1.25	55
	PERENNIAL RYEGRASS	3.25	142
	CREEPING RED FESCUE	0.40	17
	KENTUCKY BLUEGRASS	0.40	17
AUGUST 16TH TO NOVEMBER	OATS	3	128
	TALL FESCUE	1	40
	ANNUAL RYEGRASS	1	40
	WHEAT	3	120
	TALL FESCUE	1	40
	ANNUAL RYEGRASS	1	40
	PERENNIAL RYE	1	40
	TALL FESCUE	1	40
	ANNUAL RYEGRASS	1	40
	ANNUAL RYEGRASS	1.25	40
NOVEMBER 1 TO FEB. 29	PERENNIAL RYEGRASS	3.25	40
	CREEPING RED FESCUE	0.40	40
	KENTUCKY BLUEGRASS	0.40	40
USE MULCH ONLY OR DORMANT SEEDING			

NOTE: OTHER APPROVED SPECIES MAY BE SUBSTITUTED.

- STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES SUCH AS DIVERSIONS AND SEDIMENT TRAPS SHALL BE INSTALLED AND STABILIZED WITH TEMPORARY SEEDING PRIOR TO GRADING THE REST OF THE CONSTRUCTION SITE.
- TEMPORARY SEED SHALL BE APPLIED BETWEEN CONSTRUCTION OPERATIONS ON SOIL THAT WILL NOT BE GRADED OR REWORKED FOR 14 DAYS OR GREATER. THESE IDLE AREAS SHALL BE SEEDDED WITHIN 7 DAYS AFTER GRADING.
- THE SEEDBED SHOULD BE PULVERIZED AND LOOSE TO ENSURE THE SUCCESS OF ESTABLISHING VEGETATION. TEMPORARY SEEDING SHOULD NOT BE POSTPONED IF IDEAL SEEDBED PREPARATION IS NOT POSSIBLE.
- SOIL AMENDMENTS: TEMPORARY VEGETATION SEEDING RATES SHALL ESTABLISH ADEQUATE STANDS OF VEGETATION, WHICH MAY REQUIRE THE USE OF SOIL AMENDMENTS. BASE RATES FOR LIME AND FERTILIZER SHALL BE USED.
- SEEDING METHOD: SEED SHALL BE APPLIED UNIFORMLY WITH A CYCLONE SPREADER, DRILL, CULTIPACKER SEEDER, OR HYDROSEEDER. WHEN FEASIBLE, SEED THAT HAS BEEN BROADCAST SHALL BE COVERED BY RAKING OR DRAGGING AND THEN LIGHTLY TAMPED INTO PLACE USING A ROLLER OR CULTIPACKER. IF HYDROSEEDING IS USED, THE SEED AND FERTILIZER WILL BE MIXED ON-SITE AND THE SEEDING SHALL BE DONE IMMEDIATELY AND WITHOUT INTERRUPTION.

TOPSOILING

SALVAGING AND STOCKPILING:

- DETERMINE THE DEPTH AND SUITABILITY OF TOPSOIL AT THE SITE. (FOR HELP, CONTACT YOUR LOCAL SWCD OFFICE TO OBTAIN A COUNTY SOIL SURVEY REPORT).
- PRIOR TO STRIPPING TOPSOIL, INSTALL APPROPRIATE DOWNSLOPE EROSION AND SEDIMENTATION CONTROLS SUCH AS SEDIMENT TRAPS AND BASINS.
- REMOVE THE SOIL MATERIAL NO DEEPER THAN WHAT THE COUNTY SOIL SURVEY DESCRIBES AS "SURFACE SOIL" (IE. A OR AP HORIZON).
- CONSTRUCT STOCKPILES IN ACCESSIBLE LOCATIONS THAT DO NOT INTERFERE WITH NATURAL DRAINAGE. INSTALL APPROPRIATE SEDIMENT CONTROLS TO TRAP SEDIMENT SUCH AS SILT FENCE IMMEDIATELY ADJACENT TO THE STOCKPILE OR SEDIMENT TRAPS OR BASINS DOWNSTREAM OF THE STOCKPILE. STOCKPILE SIDE SLOPES SHALL NOT EXCEED A RATIO OF 2:1.
- IF TOPSOIL IS STORED FOR MORE THAN 21DAYS, IT SHOULD BE TEMPORARY SEEDDED, OR COVERED WITH A TARP.

SPREADING THE TOPSOIL

- PRIOR TO APPLYING TOPSOIL, THE TOPSOIL SHOULD BE PULVERIZED.
- TO ENSURE BONDING, GRADE THE SUBSOIL AND ROUGHEN THE TOP 3-4 IN. BY DISKING.
- DO NOT APPLY WHEN SITE IS WET, MUDDY, OR FROZEN, BECAUSE IT MAKES SPREADING DIFFICULT, CAUSES COMPACTION PROBLEMS, AND INHIBITS BONDING WITH SUBSOIL.
- APPLY TOPSOIL EVENLY TO A DEPTH OF AT LEAST 4 INCHES AND COMPACT SLIGHTLY TO IMPROVE CONTACT WITH SUBSOIL.
- AFTER SPREADING, GRADE AND STABILIZE WITH SEEDING OR APPROPRIATE VEGETATION.

PERMANENT SEEDING

SEED MIX	SEEDING RATE		NOTES:
	LBS./ACRE	LBS./1,000 SQ. FEET	
	GENERAL USE		
CREEPING RED FESCUE DOMESTIC RYEGRASS KENTUCKY BLUEGRASS	20-40 10-20 20-40	1/2-1 1/4-1/2 1/2-1	FOR CLOSE MOWING & FOR WATERWAYS WITH <2.0 FT/SEC VELOCITY
TALL FESCUE TURF-TYPE (DWARF) FESCUE	40-50 90	1-1 1/4 2 1/4	
STEEP BANKS OR CUT SLOPES			
TALL FESCUE CROWN VETCH TALL FESCUE	40-50 10-20 20-30	1-1 1/4 1/4-1/2 1/2-3/4	DO NOT SEED LATER THAN AUGUST
FLAT PEA TALL FESCUE	20-25 20-30	1/2-3/4 1/2-3/4	DO NOT SEED LATER THAN AUGUST
ROAD DITCHES AND SWALES			
TALL FESCUE TURF-TYPE (DWARF) FESCUE KENTUCKY BLUEGRASS	40-50 80 5	1-1 1/4 2 1/4 0.1	
LAWNS			
KENTUCKY BLUEGRASS PERENNIAL RYEGRASS	100-120	2 2	
KENTUCKY BLUEGRASS CREEPING RED FESCUE	100-120	2 1-1/2	FOR SHADED AREAS

SITE PREPARATION:

- SUBSOILER, PLOW, OR OTHER IMPLEMENT SHALL BE USED TO REDUCE SOIL COMPACTION AND ALLOW MAXIMUM INFILTRATION. (MAXIMIZING INFILTRATION WILL HELP CONTROL BOTH RUNOFF RATE AND WATER QUALITY.) SUBSOILING SHOULD BE DONE WHEN THE SOIL MOISTURE IS LOW ENOUGH TO ALLOW THE SOIL TO CRACK OR FRACTURE. SUBSOILING SHALL NOT BE DONE ON SLIP-PRONE AREAS WHERE SOIL PREPARATION SHOULD BE LIMITED TO WHAT IS NECESSARY FOR ESTABLISHING VEGETATION.
- THE SITE SHALL BE GRADED AS NEEDED TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDBED PREPARATION AND SEEDING.
- TOPSOIL SHALL BE APPLIED WHERE NEEDED TO ESTABLISH VEGETATION.

SEEDBED PREPARATION:

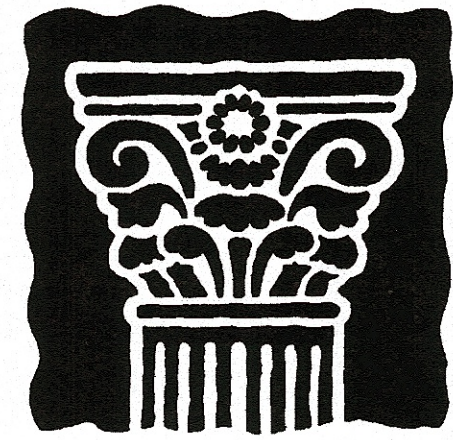
- LIME: AGRICULTURAL GROUND LIMESTONE SHALL BE APPLIED TO ACID SOIL AS RECOMMENDED BY A SOIL TEST. IN LIEU OF A SOIL TEST, LIME SHALL BE APPLIED AT THE RATE OF 100 POUNDS PER 1,000-SQ. FT. OR 2 TONS PER ACRE.
- FERTILIZER: FERTILIZER SHALL BE APPLIED AS RECOMMENDED BY A SOIL TEST. IN PLACE OF A SOIL TEST, FERTILIZER SHALL BE APPLIED AT A RATE OF 25 POUNDS PER 1,000-SQ. FT. OR 1000 POUNDS PER ACRE OF A 10-10-10 OR 12-12-12 ANALYSES.
- THE LIME AND FERTILIZER SHALL BE WORKED INTO THE SOIL WITH A DISK HARROW, SPRING-TOOTH HARROW, OR OTHER SUITABLE FIELD IMPLEMENT TO A DEPTH OF 3 INCHES. ON SLOPING LAND, THE SOIL SHALL BE WORKED ON THE CONTOUR.

SEEDING DATES AND SOIL CONDITIONS:

SEEDING SHOULD BE DONE MARCH 1 TO MAY 31 OR AUGUST 1 TO SEPTEMBER 30. IF SEEDING OCCURS OUTSIDE OF THE ABOVE-SPECIFIED DATES, ADDITIONAL MULCH AND IRRIGATION MAY BE REQUIRED TO ENSURE A MINIMUM OF 80% GERMINATION. TILLAGE FOR SEEDBED PREPARATION SHOULD BE DONE WHEN THE SOIL IS DRY ENOUGH TO CRUMBLE AND NOT FORM RIBBONS WHEN COMPRESSED BY HAND. FOR WINTER SEEDING, SEE THE FOLLOWING SECTION ON DORMANT SEEDING.

DORMANT SEEDINGS:

- SEEDINGS SHOULD NOT BE MADE FROM OCTOBER 1 THROUGH NOVEMBER 20. DURING THIS PERIOD, THE SEEDS ARE LIKELY TO GERMINATE BUT PROBABLY WILL NOT BE ABLE TO SURVIVE THE WINTER.



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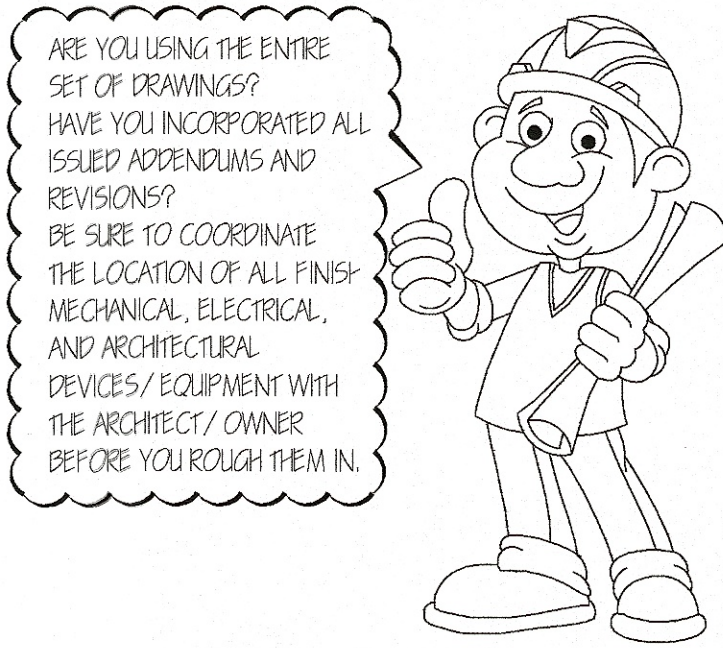
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SCHOOL MIDDLE SCHOOL
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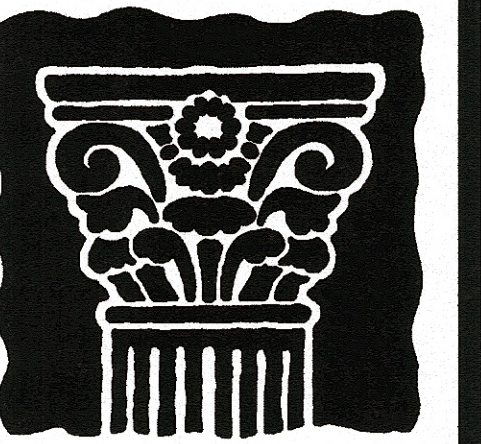
STATE OF OHIO
DIVISION OF MOTOR VEHICLES
JULY 20, 2018
NAME: JENNIFER D. SCHUMACHER
LICENSE NO. 62831
EXPIRATION DATE: 12/31/2019

Project Number 17035
Date 07-20-18
ALL REVISIONS MADE TO THIS
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THIS DRAWING WAS LAST REVISED
ON

C-7



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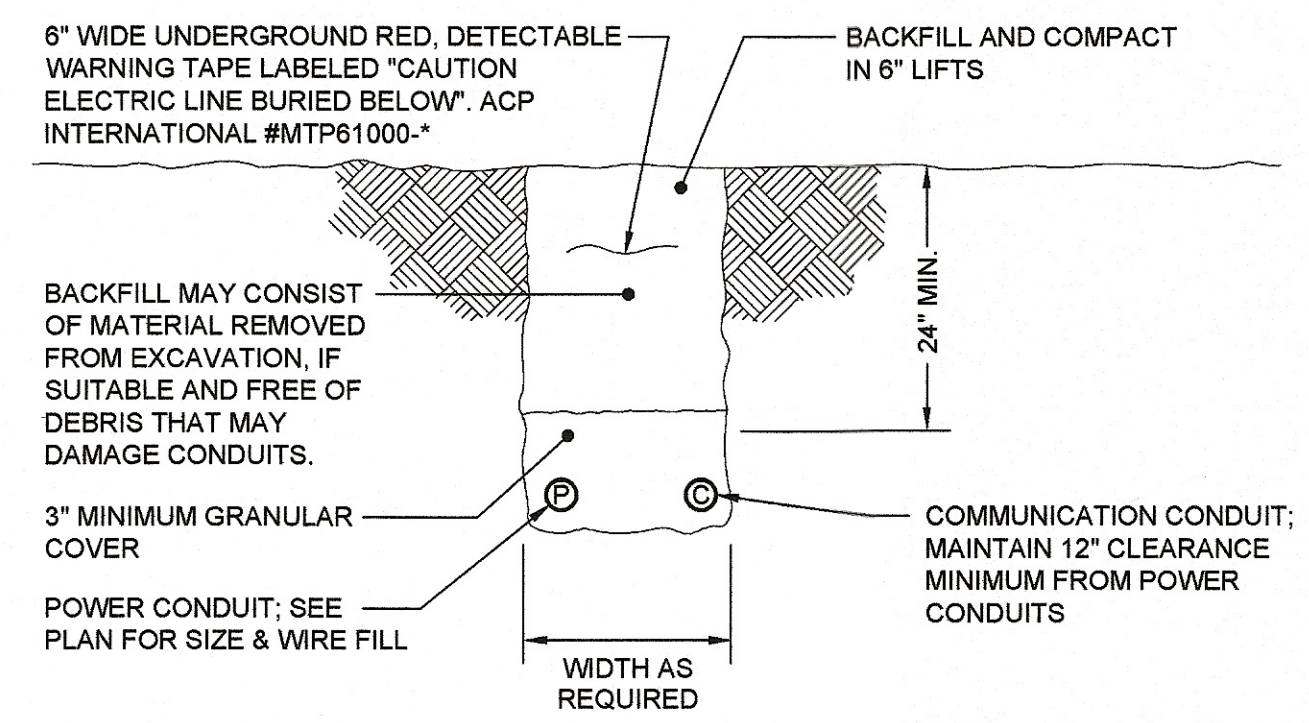
STATE OF OHIO
JOHN C. RUSS
E-58998
REGISTERED PROFESSIONAL ENGINEER
NAME: JOHN C. RUSS
LICENSE NO. E-58998
EXPIRATION DATE: 12/31/2019

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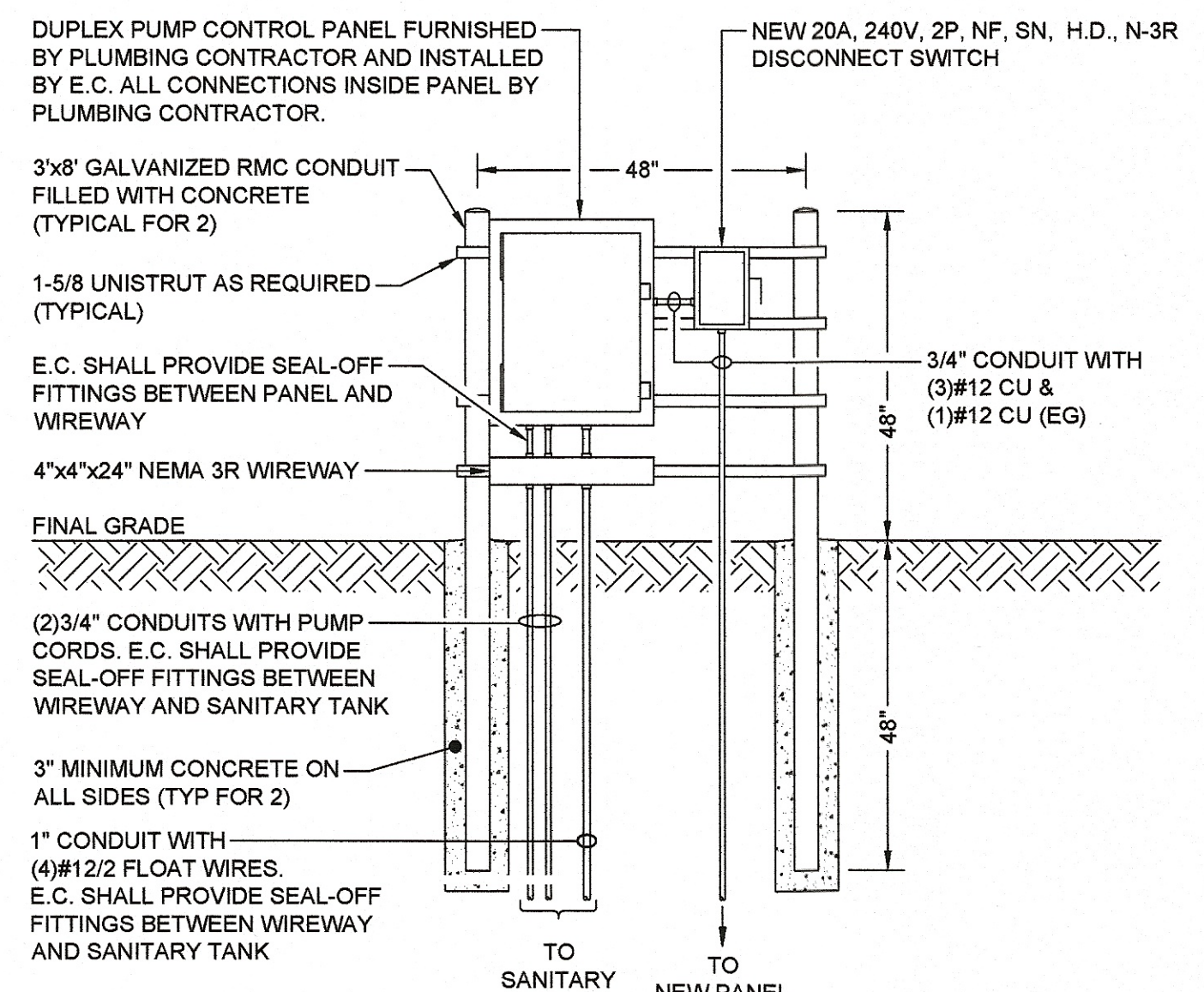
E1

2 WORKING DAYS
BEFORE YOU DIG
CALL TOLL FREE 800-362-2764
OHIO UTILITIES PROTECTION SERVICE

THE CONTRACTOR SHALL VERIFY THE
LOCATIONS OF UNDERGROUND UTILITIES
BY CALLING O.U.P.S. (800) 362-2764 AT LEAST 48
HOURS PRIOR TO DIGGING. THE CONTRACTOR
SHALL TAKE ALL NECESSARY STEPS TO PROTECT
THE UNDERGROUND UTILITIES FROM DAMAGE BY
CONTRACTOR'S EMPLOYEES OR SUBCONTRACTORS.



TYPICAL TRENCHING DETAIL
NOT TO SCALE

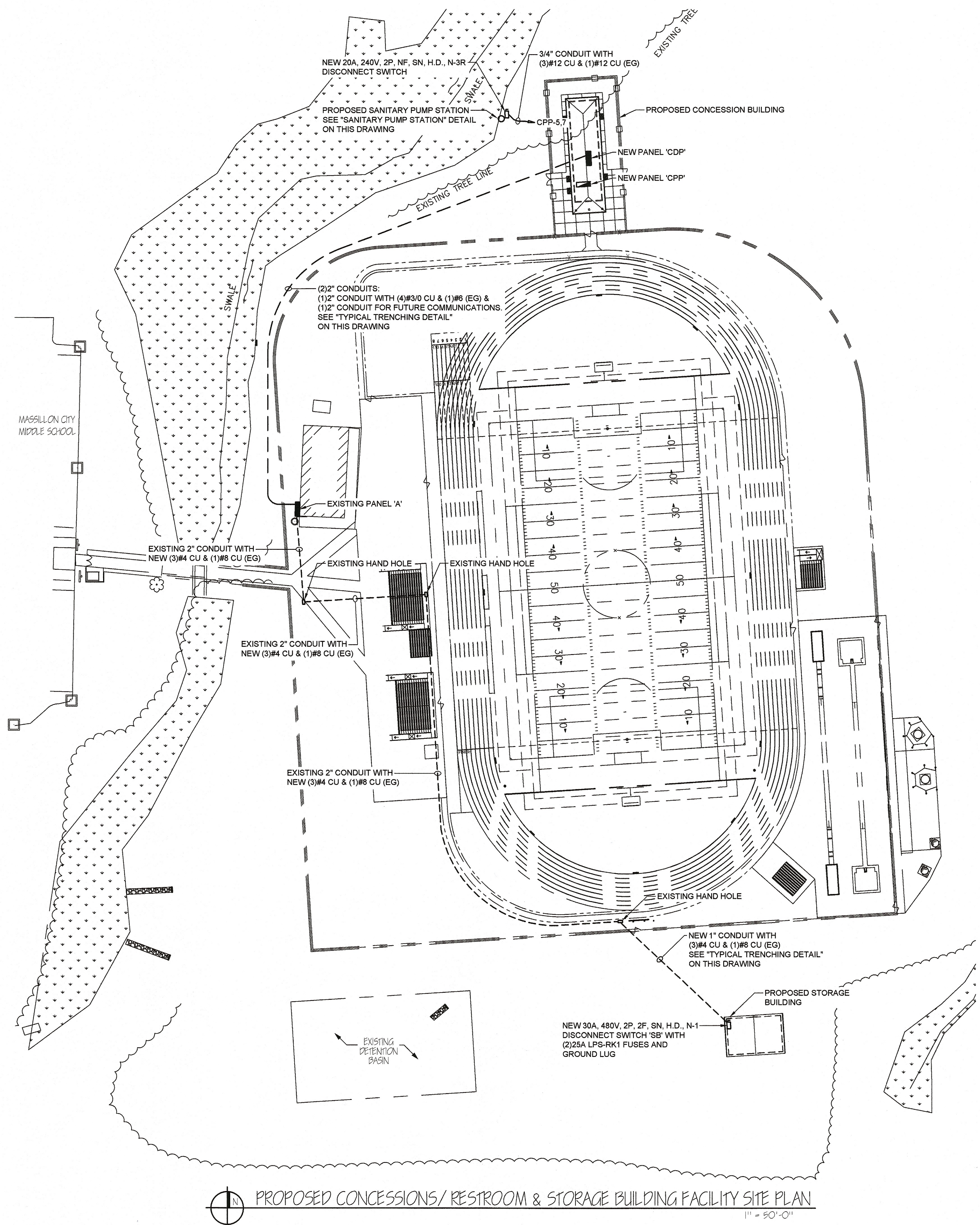


SANITARY PUMP STATION
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**STATE ELECTRICAL
ENGINEERING**
ELECTRICAL DESIGNERS
AND ENGINEERS
519 FORTH ST. N.W. SUITE 5
CANTON, OHIO 44705 P 330-452-8808



PROPOSED CONCESSIONS/RESTROOM & STORAGE BUILDING FACILITY SITE PLAN
1" = 50'-0"