

**GENERALNOTES**

1. TOPOGRAPHIC DATA, PROPERTY LINE INFORMATION, AND EXISTING SITE FEATURES WERE OBTAINED FROM A PLAN ENTITLED "EXISTING CONDITIONS SURVEY, XAVERIAN BROTHERS HIGH SCHOOL, 800 CLAPBOARDTREE STREET, WESTWOOD, MASSACHUSETTS (NORFOLK COUNTY)", PREPARED BY WELCH ASSOCIATES LAND SURVEYORS, INC., DATED APRIL 14, 2013.
2. FLOODPLAIN INFORMATION WAS OBTAINED FROM THE FLOOD INSURANCE RATE MAP (FIRM) COMMUNITY PANEL NO. 0006 D 255225. THE SITE IS IN ZONE X.
3. THE LOCATIONS AND ELEVATIONS OF ALL EXISTING UTILITIES SHALL BE CONSIDERED APPROXIMATE AND MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO ANY UTILITY CONNECTIONS OR CROSSINGS OF PROPOSED UTILITIES AND EXISTING UTILITIES. THE CONTRACTOR SHALL CONTACT THE RESPECTIVE UTILITY COMPANIES RELATIVE TO THE LOCATIONS AND ELEVATIONS OF THEIR LINES. THE CONTRACTOR SHALL KEEP A RECORD OF ANY DISCREPANCIES OR CHANGES IN THE LOCATIONS OF ANY UTILITIES SHOWN OR ENCOUNTERED DURING CONSTRUCTION. ANY DISCREPANCIES SHALL BE REPORTED TO NITSCH ENGINEERING.
4. THE CONTRACTOR SHALL COMPLY WITH MASSACHUSETTS GENERAL LAWS CHAPTER 82, SECTION 40, AS AMENDED, WHICH STATES THAT NO ONE MAY EXCAVATE IN THE COMMONWEALTH OF MASSACHUSETTS EXCEPT IN AN EMERGENCY WITHOUT 72 HOURS NOTICE, EXCLUSIVE OF SATURDAYS, SUNDAYS, AND LEGAL HOLIDAYS, TO NATURAL GAS PIPELINE COMPANIES, AND MUNICIPAL UTILITY DEPARTMENTS THAT SUPPLY GAS, ELECTRICITY, TELEPHONE, OR CABLE TELEVISION SERVICE IN OR TO THE CITY OR TOWN WHERE THE EXCAVATION IS TO BE MADE. THE CONTRACTOR SHALL CALL "DIG SAFE" AT 1-888-DIG-SAFE.
5. THE CONTRACTOR SHALL COMPLY WITH MASSACHUSETTS GENERAL LAWS CHAPTER 82A, ALSO REFERRED TO AS JACKIE'S LAW, AS DETAILED IN SECTION 520 CMR 14.00 OF THE CODE OF MASSACHUSETTS REGULATIONS.
6. ALL UTILITY CONNECTIONS ARE SUBJECT TO THE APPROVAL OF, AND GRANTING OF PERMITS BY, THE TOWN OF WESTWOOD. IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO SEE THAT ALL PERMITS AND APPROVALS ARE OBTAINED BEFORE STARTING CONSTRUCTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR MAKING ALL NECESSARY ARRANGEMENTS FOR AND FOR PERFORMING ANY NECESSARY WORK INVOLVED IN CONNECTION WITH THE DISCONTINUANCE OF ANY UTILITIES OR WITHIN THE JURISDICTION OF ANY UTILITY COMPANIES, SUCH AS ELECTRICITY, TELEPHONE, WATER, GAS, AND ANY SYSTEM OR SYSTEMS WHICH WILL BE AFFECTED BY THE WORK TO BE PERFORMED UNDER THIS CONTRACT. THE CONTRACTOR SHALL NOTIFY ALL APPROPRIATE AGENCIES, DEPARTMENTS, AND UTILITY COMPANIES, IN WRITING, AT LEAST 48 HOURS AND NOT MORE THAN 30 DAYS PRIOR TO ANY CONSTRUCTION. CONSTRUCTION SHALL NOT INTERFERE WITH OR INTERRUPT UTILITIES WHICH ARE TO REMAIN IN OPERATION.
7. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL LAWS, RULES, REGULATIONS AND SAFETY CODES IN THE CONSTRUCTION OF ALL IMPROVEMENTS.
8. THE CONTRACTOR SHALL TAKE ADEQUATE PRECAUTIONS TO PROTECT ALL WALKS, GRADING, SIDEWALKS AND SITE DETAILS OUTSIDE OF THE LIMITS OF REGRADING AND WORK AS SHOWN ON THE DRAWINGS AND SHALL REPAIR AND REPLACE OR OTHERWISE MAKE GOOD AS DIRECTED BY THE ENGINEER OR OWNER'S DESIGNATED REPRESENTATIVE ANY SUCH OR OTHER DAMAGE SO CAUSED.
9. THE CONTRACTOR SHALL REMOVE FROM THE SITE ALL RUBBISH AND DEBRIS FOUND THEREON. STORAGE OF SUCH MATERIALS ON THE PROJECT SITE WILL NOT BE PERMITTED. THE CONTRACTOR SHALL LEAVE THE SITE IN SAFE, CLEAN, AND LEVEL CONDITION UPON COMPLETION OF THE SITE CLEARANCE WORK.
10. THE CONTRACTOR SHALL REMOVE FROM THE AREA OF CONSTRUCTION PAVEMENT, CONCRETE, GRANITE CURBING, CEMENT CURBING, POLES AND FOUNDATIONS, ISLANDS, TREE BERMS AND OTHER FEATURES WITHIN THE LIMITS OF CONSTRUCTION AS REQUIRED TO ACCOMMODATE NEW CONSTRUCTION WHETHER SPECIFIED ON THE DRAWINGS OR NOT.
11. FOR SITE LAYOUT, GRADING, MATERIALS, PLANTINGS, GROUND COVER, EROSION CONTROL, AND DETAILS SEE LANDSCAPE ARCHITECT'S DRAWINGS.
12. FOR STRUCTURAL DETAILS AND INFORMATION SEE STRUCTURAL DRAWINGS.
13. ALL WATER, SEWER, AND DRAIN WORK SHALL BE PERFORMED ACCORDING TO THE REQUIREMENTS AND STANDARD SPECIFICATIONS OF TOWN OF WESTWOOD.
14. ELEVATIONS REFER TO N.G.V.D. 1929.
15. GAS, TELEPHONE AND ELECTRIC SERVICES ARE TO BE DESIGNED BY EACH UTILITY COMPANY IN COORDINATION WITH THE MECHANICAL, ELECTRIC AND PLUMBING CONSULTANTS. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES AND DESIGN OF NEW UTILITIES WITH ELECTRIC, CABLE TELEVISION AND TELECOMMUNICATION UTILITIES.
16. INSTALL WATER LINES WITH A MINIMUM OF FIVE FEET OF COVER AND A MAXIMUM OF SEVEN FEET.
17. MAINTAIN 10 FEET HORIZONTAL SEPARATION AND 18" VERTICAL SEPARATION (WATER OVER SEWER) BETWEEN SEWER AND WATER LINES. WHEREVER THERE IS LESS THAN 10 FEET OF HORIZONTAL SEPARATION AND 18" OF VERTICAL SEPARATION BETWEEN A PROPOSED OR EXISTING SEWER LINE TO REMAIN AND A PROPOSED OR EXISTING WATER LINE TO REMAIN BOTH WATER MAIN AND SEWER MAIN SHALL BE CONSTRUCTED OF MECHANICAL JOINT CEMENT LINED DUCTILE IRON PIPE FOR A DISTANCE OF 10- FEET ON EITHER SIDE OF THE CROSSING. ONE (1) FULL LENGTH OF WATER PIPE SHALL BE CENTERED OVER THE SEWER AT THE CROSSING.
18. UTILITY STRUCTURES TO BE ABANDONED SHALL BE REMOVED TO A DEPTH OF NO LESS THAN 3 FEET BELOW FINISHED GRADE. THE BOTTOMS OF THE STRUCTURES SHALL BE BROKEN AND THE STRUCTURES SHALL BE BACKFILLED WITH GRAVEL BORROW AND COMPACTED.
19. CONTRACTOR SHALL MAINTAIN ALL EXISTING UTILITIES EXCEPT THOSE NOTED TO BE ABANDONED OR REMOVED & DISPOSED.
20. THE CONTRACTOR SHALL COMPLY WITH THE ORDER OF CONDITIONS DATED XXXX XX, XXXX AND ISSUED BY THE XXXX CONSERVATION COMMISSION (DEP #XXX-XXX).
21. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR TRENCHING, BACKFILLING, AND SURFACE RESTORATION FOR THE GAS LINE INSTALLATION.
22. FOR SOIL INFORMATION REFER TO GEOTECHNICAL REPORT.
23. ALL GRATES IN WALKWAYS SHALL BE ADA COMPLIANT.

**LEGEND**

- ⊙ DMH DRAIN MANHOLE
- ⊙ CB CATCH BASIN
- ⊙ SMH SEWER MANHOLE
- ⊙ EMH ELECTRIC MANHOLE
- ⊙ TMH TELEPHONE MANHOLE
- UP UTILITY POLE
- ★ LP STREET LIGHT POLE
- ⬚ EHH ELECTRIC HANDHOLE
- ⊙ GO GAS GATE
- ⊙ WV WATER VALVE
- ⊙ STORMCEPTOR UNIT
- ABANDON UTILITY LINE
- C — C CABLE TELEVISION LINE
- D — D DRAIN LINE
- E — E UNDERGROUND ELECTRIC LINE
- G — G GAS LINE
- S — S SEWER LINE
- T — T TELEPHONE/DATA LINE
- W — W WATER LINE
- OHW — OHW OVERHEAD WIRES
- TS — TS TRAFFIC SIGNAL LINE
- x — x CHAIN LINK FENCE
- x — x STONE WALL
- C — C CUT & CAP UTILITY LINE
- + TW: 147.50  
BW: 137.50 TOP OF WALL ELEVATION  
BOTTOM OF WALL ELEVATION
- +148.55 SPOT ELEVATION
- TEST BORING
- 30 NUMBER OF PARKING SPACES

**ABBREVIATIONS**

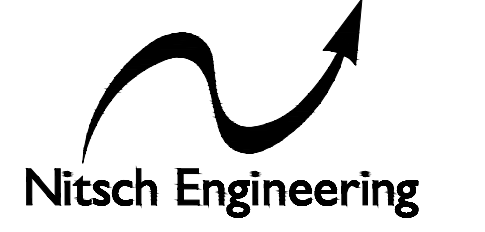
- AD AREA DRAIN
- BC BOTTOM OF CURB
- BLDG. BUILDING
- BW BOTTOM OF WALL
- BWW BOSTON WATER WORKS GATE
- CATV CABLE TELEVISION
- CB CATCH BASIN
- CI CAST IRON PIPE
- CLDI CEMENT LINE DUCTILE IRON PIPE
- CLF CHAIN LINK FENCE
- CMP CORRUGATED METAL PIPE
- CONC. CONCRETE
- CPP CORRUGATED PLASTIC PIPE
- CSMH COMBINED SEWER MANHOLE
- DIP DUCTILE IRON PIPE
- DMH DRAINAGE MANHOLE
- EHH ELECTRIC HANDHOLE
- EMH ELECTRIC MANHOLE
- FS FIRE SERVICE
- GG GAS GATE
- GV GAS VALVE
- HYD HYDRANT
- I INVERT ELEVATION
- LF LINEAR FEET
- LOC. LOCATION STREET
- LP LIGHT POLE
- OHW OVERHEAD WIRE
- PVC POLYVINYL CHLORIDE PIPE
- R RIM ELEVATION
- RCP REINFORCED CONCRETE PIPE
- REC. RECORD
- SH SPRINKLER HEAD
- SMH SEWER MANHOLE
- TC TOP OF CURB
- TMH TELEPHONE MANHOLE
- TR TOP OF RAIL ELEVATION
- TW TOP OF WALL
- TYP. TYPICAL
- UP UTILITY POLE
- VCP VITRIFIED CLAY PIPE
- WG WATER GATE
- WV WATER VALVE
- W/ WITH
- W/O WITHOUT

STORM DRAINAGE - INVERT TABLE			
STRUCTURE	INV IN	INV OUT	RIM
CB201		149.00 (DMH101)	151.80
CB202		146.20 (DMH102)	150.47
CB203		147.93 (DMH102)	151.00
CB204		143.10 (DMH105)	146.45
CB205		142.80 (DMH105)	146.15
CB206		141.00 (DMH106)	144.00
CB207		143.00 (DMH137)	146.82
CB208		142.60 (DMH132)	146.78
CB209		153.30 (DMH107)	156.95
CB210		153.30 (DMH107)	156.95
CB211		151.50 (DMH108)	154.95
CB212		151.50 (DMH108)	154.95
CB213		148.10 (4P-IN3)	154.05
CB214		143.70 (DMH137)	150.22
CB215		141.40 (DMH111)	147.01
CB216		140.95 (DMH111)	146.00
CB217		132.00 (DMH116)	143.50
CB218		132.50 (DMH112)	144.10
CB219		132.50 (DMH112)	141.46
CB220		131.60 (DMH113)	141.40

STORM DRAINAGE - INVERT TABLE			
STRUCTURE	INV IN	INV OUT	RIM
DMH133	142.25 (DMH132)	142.25 (DMH134) 142.15 (VT4-IN)	146.78
DMH134	142.20 (DMH133) 141.96 (VT4-OUT)	141.86 (2P IN)	146.70
DMH137	142.80 (CB207) 142.80 (CB214)	142.70 (DMH132)	147.62
DMH138	140.10 (2P-IN2) 140.27 (VT5-OUT)	140.35 (DMH139)	212.39
DMH139	140.28 (DMH138)	140.50 (DMH106) 140.40 (VT5-IN)	144.33

STORM DRAINAGE - INVERT TABLE			
STRUCTURE	INV IN	INV OUT	RIM
CB221		131.00 (DMH116)	140.59
CB222		131.00 (DMH116)	139.00
CB223		131.00 (DMH116)	138.60
CB224		131.60 (DMH113)	140.32
CB225		140.95 (DMH111)	143.68
CB226		140.75 (DMH106)	143.38
CB229		149.00 (4P-IN2)	152.25
CB233		148.10 (DMH119)	151.10
CB234		148.10 (DMH119)	0.17
DMH101	147.80 (CB201)	147.78 (DMH102)	152.15
DMH102	147.00 (DMH101) 147.77 (CB203) 146.10 (CB202)	146.00 (DMH103)	155.81
DMH103	145.90 (DMH102)	145.95 (DMH104) 145.80 (VT2-IN)	151.42
DMH104	145.75 (DMH103) 145.55 (VT2-OUT)	145.45 (4P-IN)	152.05
DMH105	142.70 (CB205) 142.70 (CB204)	142.60 (DMH132)	147.83
DMH106	140.60 (DMH111) 140.45 (DMH139) 140.60 (CB206) 140.60 (CB226)		144.08
DMH107	153.00 (CB209) 153.00 (CB210)	152.90 (DMH108)	156.30
DMH108	151.00 (DMH107) 151.00 (CB212) 151.00 (CB211)	149.00 (DMH110)	220.38
DMH109	146.72 (4P-OUT)	146.62 (OUTFALL1)	152.10
DMH110	147.50 (DMH108)	147.40 (DMH114)	154.95
DMH111	140.85 (CB216) 140.85 (CB215) 140.85 (CB225)	140.75 (DMH106)	143.98

STORM DRAINAGE - INVERT TABLE			
STRUCTURE	INV IN	INV OUT	RIM
DMH112	132.10 (CB218) 132.10 (CB219)	132.00 (DMH113)	142.00
DMH113	131.24 (CB224) 131.24 (DMH112) 131.24 (CB220)	131.14 (DMH117)	140.00
DMH115	130.82 (DMH136) 130.75 (VT7-OUT)	130.65 ( )	140.00
DMH116	130.20 (CB222) 130.20 (CB221) 130.20 (CB223) 130.20 (CB217)	130.10 (DMH136)	139.94
DMH117	131.05 (DMH113)	131.00 (DMH135) 130.95 (VT6-IN)	139.90
DMH118	147.23 (DMH114) 154.50 (VT3-OUT)	147.13 (4P-IN-2)	158.77
DMH119	147.90 (CB234) 147.95 (CB233)	147.85 (DMH121) 147.75 (VT1-IN)	152.00
DMH120	137.10 (1P-OUT)	137.00 (OUTFALL3)	143.00
DMH121	147.60 (VT1-OUT) 147.80 (DMH119)	147.50 (6P-IN)	152.30
DMH122	145.35 (DMH123) 147.40 (6P-OUT)		152.40
DMH123	145.60 (DMH124)	145.50 (DMH122)	152.50
DMH124	146.45 (DMH125)	146.35 (DMH123)	153.00
DMH125	146.70 (DMH126)	151.50 (5P-OUT) 146.60 (DMH124)	154.00
DMH126	147.00 (DMH131)	146.90 (DMH125)	155.00
DMH127		151.60 (VT8-IN)	156.50
DMH128	151.40 (VT8-OUT)		155.95
DMH129	150.00 (DMH130)	149.90 (EX-DMH)	153.00
DMH130		151.20 (DMH129)	154.95
DMH131	148.90 (EX-DMH2)	148.70 (DMH126)	157.00
DMH132	142.40 (DMH105) 142.40 (CB208) 142.40 (DMH137)	142.30 (DMH133)	147.08



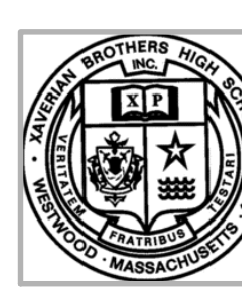
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**OWNER**



**PROJECT**

Scholastic Sports  
Facilities and  
Wellness Center

Xaverian Brothers  
High School  
800 Clapboardtree Street  
Westwood, MA

JOB NUMBER **13-350**

SCALE **AS SHOWN**

**GENERAL NOTES AND LEGEND**

DRAWING NO.

**C-400**