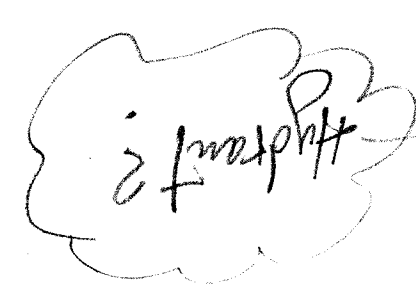




RENOVATIONS, ADDITIONS
AND RELATED WORK
MSD OF LAWRENCE TOWNSHIP





GIBALTAR
DESIGN

ARCHITECTURE • ENGINEERING • INTERIOR DESIGN

PROJECT

LAWRENCE CENTRAL HIGH SCHOOL

RENOVATIONS, ADDITIONS
AND RELATED WORK
MSD OF LAWRENCE TOWNSHIP

KEYNOTES

- CONNECT NEW 8" PVC STORM LINE INTO 8" BUILDING STORM AT INV. EL. = 849.65.
- 10 LF OF 8" PVC @ 2.00%.
- CONNECT 8" PVC PIPE INTO EXISTING STORM STRUCTURE AT INVERT EL. = 849.45. CORE DRILL AND GROUT CONNECTION SOLID.
- CLEANOUT - SEE DETAIL 10/C6.1
- INSTALL NEW 5" DIAMETER STORM MANHOLE ON EXISTING 36" RCP STORM LINE. SEE DETAIL 8 & 14/C6.2. INVERT EL. = 845.42 (FIELD VERIFY) RIM EL. = 852.45
- STORM WATER QUALITY UNIT - SEE DETAIL 5/C6.2
- TWO - 5' LENGTHS OF 18" PVC PIPE @ 0.00%
- SEE PLUMBING PLAN P-101 FOR THIS ROOF CONDUCTOR.
- SEE PLUMBING PLAN P-104 FOR THE SANITARY SEWER CONNECTION.
- CONNECT 12" PVC STORM LINE INTO 10" BUILDING STORM AT INVERT EL. = 848.65.
- CONNECT 10" PVC STORM LINE INTO 8" BUILDING STORM AT INVERT EL. = 851.15.
- SEE PLUMBING PLAN P-104 FOR CLEANOUT & CONTINUATION INTO BUILDING.
- 18 LF OF 10" PVC PIPE @ 14.41%.
- 20 LF OF 12" PVC PIPE @ 1.10%.
- 30 LF OF 27" RCP @ 1.00%.
- FIELD VERIFY DEPTH AND LOCATION OF EXISTING UTILITIES PRIOR TO INSTALLING NEW SEWER. NOTIFY ARCHITECT/ENGINEER OF ANY CONFLICTS.
- REPLACE EXISTING CASTING WITH A NEENAH R-3286-8V CASTING.
- SEE PLUMBING PLAN P-108 FOR THIS ROOFING CONDUCTOR.
- ADS 10" COURTYARD DRAIN BASIN 2810AG WITH 8" OUTLET. INVERT EL. = 853.47, RIM EL. = 854.80.
- 21 LF OF 8" PVC PIPE @ 6.00%.
- CONNECT 8" PVC INTO EXISTING STORM STRUCTURE STR. ST-8 AT INVERT EL. = 852.21. CORE DRILL AND GROUT CONNECTION SOLID.
- ADS 10" COURTYARD DRAIN BASIN 2810AG WITH 8" OUTLET. INVERT EL. = 853.41, RIM EL. = 854.74.
- 30 LF OF 8" PVC PIPE @ 4.00%.
- CONNECT 8" PVC PIPE INTO EXISTING STORM STRUCTURE STR. ST-10 AT INVERT EL. = 852.21. CORE DRILL AND GROUT CONNECTION SOLID.
- SEE PLUMBING PLAN P-108 FOR CLEANOUT AND CONTINUATION INTO BUILDING.
- 35 LF OF 10" PVC PIPE @ 3.00%
- INSTALL NEW STORM MANHOLE STR. ST-11 ON EXISTING 24" STORM LINE. EXISTING INVERT = 847.62 (FIELD VERIFY) RIM EL. = 854.80
- RELOCATE DOMESTIC 4" D.I.P. AND 10" D.I.P. FIRE LINE. FIELD VERIFY LOCATION AND DEPTH. (NOTE: SURVEY SHOWS ONLY ONE WATER LINE.)
- THRUST BLOCK - SEE DETAIL 6/C6.4.
- ONE - 4" AND ONE - 10" GATE VALVE AND GATE BOX.
- ADJUST EXISTING CASTING TO 854.80.
- CLEANOUT AND 65 LF OF DUCTILE IRON SANITARY @ 1.54%. CONNECT TO EXISTING SANITARY. FIELD VERIFY AND PROVIDE INVERT TO ENGINEER PRIOR TO ANY SEWER CONSTRUCTION. SEE DETAIL 15/C6.1. ASSUMED INV = 851.8.
- CLEANOUT AND 78 LF OF 6" DUCTILE IRON SANITARY @ 1.67%. SEE DETAIL 15/C6.1.
- CORE DRILL AND BOOT MANHOLE FOR 6" SANITARY CONNECTION. NEW W. INV. EL. = 849.52 (FIELD VERIFY).
- CONNECT NEW 10" PVC STORM LINE INTO 4" BUILDING STORM AT INVERT EL. = 851.15.
- CONNECT NEW 8" PVC STORM LINE INTO 8" BUILDING STORM AT INVERT EL. = 851.15.
- 7 LF OF 8" PVC PIPE @ 6.43%
- CONNECT 10" PVC INTO NEW MANHOLE AT INVERT EL. = 850.10.
- INSTALL NEW 5" DIAMETER STORM MANHOLE STR. ST-5 ON EXISTING 24" STORM SEWER. SEE DETAIL 14/C6.1. RIM EL. = 853.40, INVERT EL. = 848.32 (FIELD VERIFY) (NO PIPE SOUTH)
- INSTALL NEW 6" DIAMETER STORM MANHOLE STR. ST-6 ON EXISTING 36" STORM SEWER. SEE DETAIL 14/C6.1. RIM EL. = 853.40, INVERT EL. = 848.32 (FIELD VERIFY) (NO PIPE SOUTH)
- INSTALL NEW 4" DIAMETER STORM MANHOLE STR. ST-11 ON EXISTING 24" STORM SEWER. SEE DETAIL 13/C6.1. RIM EL. = 854.80, INVERT EL. = 847.62 (FIELD VERIFY) (NO PIPE SOUTH)
- CORE DRILL AND SLEEVE RETAINING WALL.

NOTE

CONTRACTOR SHALL EXCAVATE ALL NEW STORM AND SANITARY SEWER CROSSINGS WITH THE EXISTING UTILITIES TO VERIFY CLEARANCES OR CONFLICTS BEFORE ANY NEW SEWER CONSTRUCTION. REPORT ANY CONFLICTS TO ENGINEER.

GENERAL NOTES

- THE CONTRACTOR SHALL CONTACT ALL APPLICABLE UTILITIES PRIOR TO BID AND VERIFY ANY AND ALL FEES ASSOCIATED WITH THE INSTALLATION OF ALL UTILITIES. ALL FEES AND INSPECTIONS SHALL BE INCLUDED IN THE BID.
- CONTRACTOR SHALL VERIFY EXISTING STORM SEWER AND SANITARY SEWER CONDITIONS, LOCATION AND DEPTH PRIOR TO ANY OTHER SITE CONSTRUCTION TO ENSURE THAT THE NEW SEWERS CAN BE CONSTRUCTED AS SHOWN ON THESE PLANS. REPORT ANY DISCREPANCIES TO THE ENGINEER.
- SEE PLUMBING PLANS FOR LOCATIONS OF UTILITY CONNECTIONS AT BUILDING.
- PATCH PAVING DUE TO UTILITY CUTS TO MATCH EXISTING, SEE DETAIL 13/C6.2.
- CONTRACTOR SHALL INSTALL ALL SLEEVES/CONDUITS AS REQUIRED BY THE UTILITY COMPANIES. COORDINATE FINAL LOCATIONS WITH THE UTILITY COMPANIES.
- WHERE WATER LINES AND SEWERS CROSS AND THE WATER LINE CANNOT BE PLACED ABOVE OR BELOW THE SEWER WITH A MINIMUM OF 18" VERTICAL CLEARANCE, THE SEWER MUST BE CONSTRUCTED OF WATER WORKS GRADE DUCTILE IRON PIPE WITH MECHANICAL JOINTS OR PLASTIC PRESSURE SEWER PIPE WITH GASKETED, COMPRESSION-TYPE JOINTS WITHIN 10' OF THE WATER LINE. THE WATER LINES SHALL BE INSTALLED ABOVE THE SEWER WHEREVER POSSIBLE.
- WHERE WATER LINES AND SEWERS RUN PARALLEL AND A MINIMUM SEPARATION DISTANCE OF 10' CANNOT BE MAINTAINED, THE SEWER MUST BE CONSTRUCTED OF WATER WORKS GRADE DUCTILE IRON PIPE WITH MECHANICAL JOINTS OR PLASTIC PRESSURE SEWER PIPE WITH GASKETED, COMPRESSION-TYPE JOINTS.
- WATER LINES SHALL BE INSTALLED WITH A MINIMUM COVER OF 5'-0".
- DUE TO THE INCOMPLETE UTILITY LINE CONNECTIONS DELINEATED PER THE SURVEY, ADDITIONAL UTILITY LINES AND CONNECTIONS HAVE BEEN SHOWN BASED UPON SITE DRAWINGS OBTAINED FROM THE OWNER AND STANDARD ENGINEERING/CONSTRUCTION PRACTICES. THE ACTUAL UTILITY LINE LOCATIONS MAY VARY FROM THAT DEPICTED ON THESE PLANS.
- CONTRACTORS SHALL CONSULT ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL PLANS FOR: INVERT ELEVATIONS AND EXACT LOCATION OF DOWNSPOUTS, WATER LINES, STORM LINES, SANITARY LINES, GAS LINES, TRANSFORMER PADS OR POLES, ETC.
- PVC AND HDPE PIPE TO BE INSTALLED AT LOCATIONS INDICATED AND SHALL NOT BE SUBSTITUTED FOR RCP PIPE.
- EXCAVATIONS EXCEEDING TWENTY (20) FEET IN DEPTH REQUIRE THE DESIGN OF A TRENCH SAFETY SYSTEM BY A REGISTERED PROFESSIONAL ENGINEER.

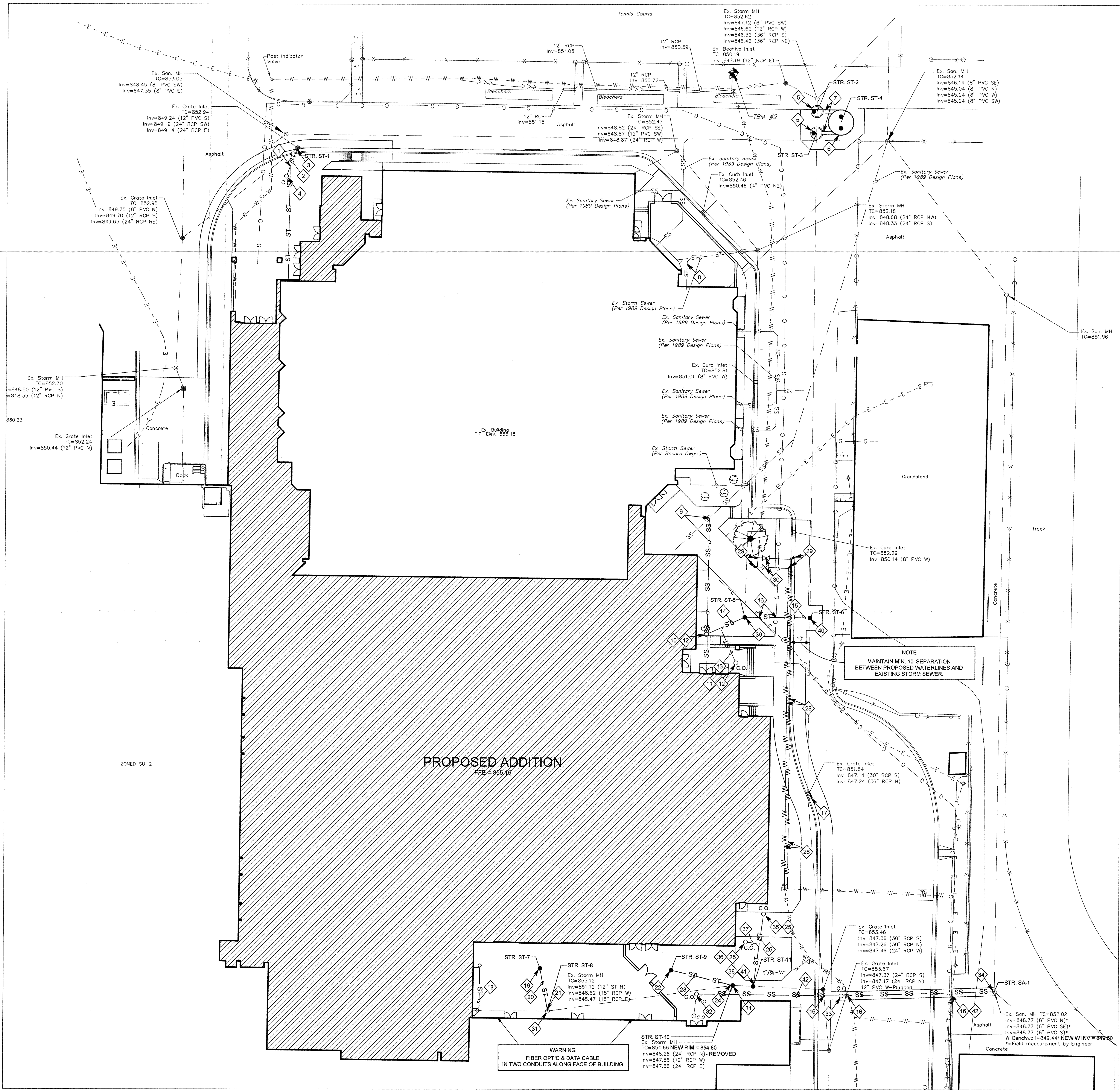
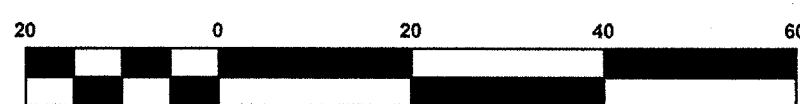
CAUTION !!

THE LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES SHOWN ON THE PLAN ARE BASED UPON ABOVE GROUND EVIDENCE (INCLUDING, BUT NOT LIMITED TO, MANHOLES, INLETS, VALVES, AND MARKS MADE UPON THE GROUND BY OTHERS) AND ARE SPECULATIVE IN NATURE. THERE MAY ALSO BE OTHER EXISTING UNDERGROUND UTILITIES FOR WHICH THERE IS NO ABOVE GROUND EVIDENCE OR FOR WHICH NO ABOVE GROUND EVIDENCE WAS OBSERVED. THE EXACT LOCATIONS OF EXISTING UNDERGROUND UTILITIES SHALL BE VERIFIED BY CONTRACTOR PRIOR TO ANY AND ALL CONSTRUCTION.

1-800-382-5544
WITHIN INDIANA
1-800-428-5200
FOR CALLS OUTSIDE OF INDIANA

SITE UTILITY PLAN

SCALE: 1"=20'



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1. CONTRACTOR IS RESPONSIBLE FOR OBTAINING, OR VERIFYING THAT ALL PERMITS AND APPROVALS ARE OBTAINED FROM THE RESPECTIVE CITY, COUNTY, AND STATE AGENCIES PRIOR TO STARTING CONSTRUCTION.
2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ACQUAINT HIMSELF WITH SUBSOIL CONDITIONS PRIOR TO BIDDING.
3. THE PLANS SHOW THE LOCATION OF UTILITIES LOCATED WITHIN THE LIMITS OF THE CONTRACT ACCORDING TO INFORMATION PROVIDED BY THE VARIOUS UTILITY COMPANIES, PREVIOUS CONSTRUCTION PLANS AND AS EVIDENCED BY OBSERVATION OF ABOVE GROUND CONDITIONS BY THE SURVEYOR. THE ACCURACY OF THIS INFORMATION IS NOT GUARANTEED.
4. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY AND COORDINATE CONSTRUCTION WITH ALL RESPECTIVE UTILITIES.
5. ALL QUANTITIES GIVEN ON THESE PRINTS, VERBALLY OR IN THE SCOPE OF WORK SECTION ARE ESTIMATES AND SHALL BE CONFIRMED BY THE BIDDING CONTRACTORS.
6. CONTRACTORS SHALL CONSULT ARCHITECTURAL, PLUMBING AND ELECTRICAL PLANS FOR INVERT ELEVATIONS AND EXACT LOCATION OF DOWNSPOUTS, WATER LINES, GAS LINES, TRANSFORMER PAD OR POLE, ETC..
7. ALL PAVEMENT CUT DUE TO UTILITY INSTALLATION, CONSTRUCTION OF CURBS, ETC., OR DAMAGE TO EXISTING PAVEMENT DURING CONSTRUCTION SHALL BE PATCHED WITH A PAVEMENT SECTION WHICH MEETS OR EXCEEDS THE EXISTING SECTION.
8. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) STANDARDS FOR EXCAVATIONS: FINAL RULE 29 CFR PART 1926, SUBPART "P" APPLIES TO ALL EXCAVATIONS EXCEEDING FIVE (5) FEET IN DEPTH.
9. EXCAVATIONS EXCEEDING TWENTY (20) FEET IN DEPTH REQUIRE THE DESIGN OF A TRENCH SAFETY SYSTEM BY A REGISTERED PROFESSIONAL ENGINEER.
10. ALL GRASS AND/OR LANDSCAPING DISTURBED BY NEW CONSTRUCTION SHALL BE RESTORED TO ORIGINAL OR BETTER CONDITION.
11. IT IS THE RESPONSIBILITY OF THE OWNER AND CONTRACTOR TO MAINTAIN QUALITY CONTROL THROUGHOUT THIS PROJECT.
12. ALL EXISTING MANHOLE AND CATCH BASIN CASTINGS, WATER OR GAS VALVE BOXES SHALL BE ADJUSTED TO NEW FINISH GRADE ELEVATION.
13. CONSTRUCTION OF ALL SEWER LINES AND STRUCTURES SHALL BE IN ACCORDANCE WITH LOCAL AND STATE CODES, RULES AND REGULATIONS.
14. BOUNDARY AND TOPOGRAPHIC SURVEY PROVIDED BY: FORESIGHT ENGINEERING, JOB NUMBER G106C, OCTOBER 13, 2006.

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