TRENCHING NOTES

1. CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, TOOLS AND EQUIPMENT NECESSARY TO ACCOMPLISH THE REQUIRED TRENCHING. CONTRACTOR SHALL LOCATE ALL UNDERGROUND UTILITIES PRIOR TO STARTING EXCAVATION. THE PARK STAFF CAN ASSIST THE CONTRACTOR TO DETERMINE THE APPROXIMATE ROUTING FOR THE EXISTING UNDERGROUND UTILITIES. THE EXACT DEPTHS FOR THE EXISTING UTILITIES IS UNKNOWN. THE CONTRACTOR SHALL TAKE CARE TO LOCATE THESE EXISTING UTILITIES TO AVOID DAMAGE.

2. TRENCHES SHALL BE EXCAVATED TO THE DEPTHS SHOWN ON THIS DETAIL AND THE CONDUIT PLACED AS SHOWN. THE WIDTH OF ANY TRENCHES SHALL BE BETWEEN SIX AND TWELVE INCHES.

3. BEDDING MATERIAL SHALL BE BEDDED AROUND ALL UNDERGROUND CONDUITS. BEDDING & FILL MATERIAL SHALL BE FREE OF MUD, CLAY LUMPS, VEGETATION, DEBRIS AND ROCKS EXCEEDING 1/4" IN THEIR GREATEST DIMENSION WITH NO MORE THAN 10% BY WEIGHT OF THE BEDDING MATERIAL PASSING A #200 SIEVE. THE "FINES" RESULTING FROM THE USE OF A TRENCHING MACHINE MAY ONLY BE USED AS COMPACTED EARTH BACKFILL. THE BEDDING MATERIAL SHALL BE PLACED ABOVE AND BELOW THE CONDUITS PER THE DIMENSIONS ON THE DETAILS.

4. THE COMPACTED EARTH BACKFILL SHALL BE COMPACTED IN 6" Lifts. HAND TAMPPING SHALL BE DONE WITH A MECHANICAL TAMPER. THE TOP OF THE BACKFILLED TRENCH SHALL BE SLIGHTLY MOUNDS ABOVE THE SURROUNDING GRADE TO ALLOW FOR SETTLEMENT.

5. ELECTRICAL MARKING TAPE SHALL BE BURIED AT THE DEPTHS SHOWN IN TRENCHES FOR ELECTRIC CONDUIT.
DIVISION 23 - PLUMBING
GENERAL PLUMBING REQUIREMENTS
1. MANUFACTURER/COMPANY SPECIFICATIONS
A. MANUFACTURER/COMPANY SPECIFICATIONS
2. PLUMBING SYSTEMS AND ACCESSORIES
A. PVC PIPE, METAL TRAPS, SCHEDULE 40 POLYVINYL, CHLORIDE (PVC) MATERIAL
B. FITTINGS, VALVES, SCHEDULE 80 PVC
C. PLUMBING SYSTEMS AND ACCESSORIES
3. I.D. AND OTHER FUNCTIONAL COMPONENTS
A. EXHAUST VENTS SHOWN ON THE BLUE PRINTS, DIFFERENT MATERIALS, BREATHERS, HUMIDITY CONTROL SYSTEMS, TAILPIPES, STORM WATER, SUMP PUMPS, AND ALL OTHER ITEMS SHOWN ON THE BRAIN DRAIN SYSTEMS SPECIFICATIONS
4. CODE STANDARDS AND SPECIFICATIONS
A. CODE CONFORMING TO THE CODE AND ALL LOCAL OR STATE CODES SHOWN ON THE BORIR R.D. SHEET OF THESE PLANS
B. NO WORK TO BE PERFORMED WITHOUT THE PERMISSION OF THE SITE OF THE CONTRACTORS WORK SUPERVISION.

PLANTS
1. MANUFACTURER:
A. SMITH-MAX WAREHOUSE [INDEPENDENT JUNIOR, 1400-1640 II, 160002028]
2. PUMPS SHALL BE IN SWING LOOSE CLAMP TYPE
A. SIZE AND PERFORMANCE OF EACH PUMP SHALL MATCH THE PUMP SIZE PIPE PLACING REFERENCE TO TABLES IN THIS SECTION FOR STANDARD INFORMATION.
B. PUMPS OF SYSTEMS DOWN TO 3" OF ALL CONTAINING MATERIALS, HAVING MASS STEEL, AND NO HINGE SUPPORTS.
C. PUMPS MUST HAVE INJECTION, WALL TOP PIPE VALVES, AND CHECK VALVES MUST BE INSTALLATION IN PEACE.
D. INSTALLATION OF ALL PUMPS MUST BE SHOWN ON THE PLANS.
E. PUMP MOUNTING MUST BE INCLUDED IN THE DRAWING OR APPROVED IS EQUALLY UTILIZED.
F. PUMPS MUST BE GUARDED WITH A COVER PROTECTING ALL PUMPS AND THEIR MOUNTING TOOLS.
G. PUMPS SHALL BE GUARANTEED IN A MINIMUM OF 240 DAYS.
H. PUMPS SHALL BE GUARANTEED IN A 1 YEAR BUSINESS.
I. ALL PUMPS SHALL BE GUARANTEED IN A 1 YEAR BUSINESS.
J. ALL PUMPS SHALL BE GUARANTEED IN A 1 YEAR BUSINESS.
K. ALL PUMPS SHALL BE GUARANTEED IN A 1 YEAR BUSINESS.
L. ALL PUMPS SHALL BE GUARANTEED IN A 1 YEAR BUSINESS.
M. ALL PUMPS SHALL BE GUARANTEED IN A 1 YEAR BUSINESS.

DIVISION 26 - ELECTRICAL
ELECTRICAL SYSTEMS AND COMPONENTS
A. THE WORK CONTAINED IN THE ELECTRICAL SPECIFICATIONS SHALL INCLUDE THE PURCHASING AND INSTALLATION OF ALL STANDARD LABOR, TRANSPORTABLE, TOOLS, PERMIT FEES AND INCENTIVE FEES NECESSARY TO COMPLETE THE ELECTRICAL WORK FOR THE PROJECT.
B. ELECTRICAL WORK PERFORMED BY THE CONTRACTOR SHAL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE AND ALL LOCAL, STATE CODES.
C. INSTALLATION, MOUNTING AND TESTING OF THE MATERIALS AND EQUIPMENT SHALL BE PERFORMED IN ACCORDANCE WITH THE SPECIFICATIONS SHOWN BY THE INSTALLER, AND OF THE INSTALLATION OF ALL ELECTRICAL MATERIAL TO BE INCLUDED AS PART OF THE ADMINISTRATIVE SPECIFICATIONS.
1. SUBMITTED BID SPECIFICATIONS
A. SUBMITTED MANUFACTURER PRODUCT DATA SHOWN ON THE FOLLOWING ITEMS
B. WIRE, CABLE AND WIRING
C. ELECTRICAL EQUIPMENT AND CONTROLS - ALL SYSTEMS AND COMPONENTS

PART 1 - GENERAL
1. CODES AND STANDARDS:
A. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE ABRAHAM OF THE NATIONAL ELECTRICAL CODE.
B. ELECTRICAL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE SAFETY REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE AND THE INSTALLATION OF ALL ELECTRICAL MATERIAL TO BE INCLUDED AS PART OF THE ADMINISTRATIVE SPECIFICATIONS.
2. SUBMITTED BID SPECIFICATIONS
A. WIRE, CABLE AND WIRING
B. ELECTRICAL EQUIPMENT AND CONTROLS - ALL SYSTEMS AND COMPONENTS

PART 2 - PRODUCTS
1. RIGID STEEL CONDUIT: RIGID STEEL CONDUIT, THICKNESS TYPE COILS AND A SCHEDULE OF 100, PROVIDE BOXES OF CONDUIT TO BE USED FOR PRIMARY AND SECONDARY ELEC. METAL, CONDUIT FITTINGS, CABLE MOUNTING, POLAR CABLE MOUNTING, FLAT PANEL, ALL CONDUIT FITTINGS SHALL BE SHOWN IN THE BID PROPOSAL.
2. HDX CONDUIT: HDX CONDUIT SHOWN TO BE USED FOR BOTH ELEC. METAL, CONDUIT FITTINGS, CABLE MOUNTING, POLAR CABLE MOUNTING, FLAT PANEL, ALL CONDUIT FITTINGS SHALL BE SHOWN IN THE BID PROPOSAL
3. LATTICE TUBE CONDUIT: LATTICE TUBE CONDUIT, THICKNESS TYPE COILS AND A SCHEDULE OF 100, PROVIDE BoxES OF CONDUIT TO BE USED FOR PRIMARY AND SECONDARY ELEC. METAL, CONDUIT FITTINGS, CABLE MOUNTING, POLAR CABLE MOUNTING, FLAT PANEL, ALL CONDUIT FITTINGS SHALL BE SHOWN IN THE BID PROPOSAL.
4. LATTICE TUBE CONDUIT: LATTICE TUBE CONDUIT, THICKNESS TYPE COILS AND A SCHEDULE OF 100, PROVIDE BoxES OF CONDUIT TO BE USED FOR PRIMARY AND SECONDARY ELEC. METAL, CONDUIT FITTINGS, CABLE MOUNTING, POLAR CABLE MOUNTING, FLAT PANEL, ALL CONDUIT FITTINGS SHALL BE SHOWN IN THE BID PROPOSAL.
5. ALL CONDUIT SYSTEMS MUST BE INSTALLED COMPLETE PER THE BID PROPOSAL AND ALL FITTINGS SHALL BE SHOWN IN THE BID PROPOSAL.
6. ALL CONDUIT SYSTEMS MUST BE INSTALLED COMPLETE PER THE BID PROPOSAL AND ALL FITTINGS SHALL BE SHOWN IN THE BID PROPOSAL.