

GENERAL PLUMBING NOTES:

- 1 DEFINITION: UNLESS OTHERWISE NOTED, ALL WORK SPECIFIED HEREIN OR NOTED ON DRAWINGS, SHALL BE BY THE CONTRACTOR. ALL REFERENCES TO "CONTRACTOR" OR "THIS CONTRACTOR" ON DRAWINGS OR SPECIFICATIONS ARE ADDRESSED TO THE CONTRACTOR. THE TERM "PROVIDE" WHENEVER ENCOUNTERED ON DRAWINGS OR SPECIFICATIONS, SHALL MEAN "FURNISH AND INSTALL"
- 2 SUBMISSION OF THE BID BY THE CONTRACTOR IS NOTIFICATION THAT THE CONTRACTOR HAS TOTALLY FAMILIARIZED HIMSELF WITH THE CONTRACT DOCUMENTS AND EXISTING SITE CONDITIONS AND HAS AGREED TO PROVIDE THE NECESSARY LABOR AND MATERIAL FOR THE COMPLETE INSTALLATION OF EACH SYSTEM IN A NEAT AND WORKMANLIKE MANNER IN ACCORDANCE WITH THE BEST PRACTICES OF THE INDUSTRY AND IN COMPLIANCE WITH ALL AUTHORITIES HAVING JURISDICTION.
- 3 THE DRAWINGS ARE PRESENTED TO THE CONTRACTOR WITH THE UNDERSTANDING THAT THE CONTRACTOR IS AN EXPERT AND COMPETENT IN THE PREPARATION OF CONTRACT BID PRICES ON THE BASIS OF INFORMATION SUCH AS IS CONTAINED IN THESE DOCUMENTS. IT IS THE INTENT OF THE DRAWINGS AND SPECIFICATIONS TO CALL FOR FINISHED WORK, TESTED AND READY FOR OPERATION, AND IN COMPLETE CONFORMANCE WITH ALL APPLICABLE CODES, RULES, AND REGULATIONS. MINOR ITEMS NOT USUALLY SHOWN OR SPECIFIED, BUT MANIFESTLY NECESSARY FOR THE PROPER INSTALLATION AND OPERATION OF THE SYSTEM, SHALL BE INCLUDED IN THE WORK AND IN THE PROPOSAL THE SAME AS IF SPECIFIED OR SHOWN ON THE DRAWINGS. IF ANY DEPARTURES FROM THE DRAWINGS AND SPECIFICATIONS ARE DEEMED NECESSARY, DETAILS OF SUCH DEPARTURES AND THE REASONS THEREOF SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL. NO DEPARTURES SHALL BE MADE WITHOUT PRIOR APPROVAL OF THE ENGINEER AND OWNER.
- 4 CONTRACTOR SHALL SECURE AND PAY FEES, LICENSES, INSPECTIONS, AND PERMITS PERTAINING TO THE PLUMBING WORK OF THE CONTRACT. SUBMIT TO OWNER DUPLICATE CERTIFICATES OF INSPECTION FROM APPROVED INSPECTION AGENCIES.
- 5 CONTRACTOR SHALL RESTORE EXISTING SYSTEM, ETC. DAMAGED OR ALTERED DURING WORK TO ACCEPTABLE CONDITIONS AS DETERMINED BY THE OWNER AND THE ENGINEER. EXISTING SYSTEMS AND SERVICES THAT ARE TEMPORARILY DISCONNECTED BUT ARE TO REMAIN IN USE SHALL BE PERMANENTLY RECONNECTED AND RETURNED TO PROPER OPERATION.
- 6 SUBMIT CATALOG INFORMATION, FACTORY ASSEMBLY DRAWINGS, SAMPLE OF MATERIALS, AND FIELD INSTALLATION DRAWINGS AS REQUIRED FOR A COMPLETE EXPLANATION AND DESCRIPTION OF ALL ITEMS TO BE PROVIDED. THE ENGINEER SHALL REVIEW AND APPROVE ALL SHOP DRAWINGS. NO SUBMISSION WILL BE ACCEPTED WITHOUT THE SIGNED APPROVAL OF THE ENGINEER. THE CONTRACTOR SHALL CHECK AND FIELD VERIFY ALL MEASUREMENTS.
- 7 ALL WORK INVOLVING ALTERATIONS TO EXISTING SYSTEM, EQUIPMENT, AND MATERIALS SHALL BE REVIEWED WITH THE ENGINEER AND THE OWNER BEFORE BEGINNING WORK.
- 8 CONTRACTOR SHALL SIMILARLY NOTIFY THE ENGINEER OF COMPLETION OF ALL WORK, INDICATING THAT THE CONTRACTOR IS READY FOR THE ENGINEER TO PERFORM THE FINAL PUNCHLIST INSPECTION.
- 9 UPON COMPLETION OF ALL UNFINISHED OR FAULTY WORK NOTED IN THE ENGINEER FINAL PUNCHLIST, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER IN WRITING A LETTER OF COMPLETION CERTIFYING THAT ALL PUNCHLIST ITEMS HAVE BEEN COMPLETED AND ALL AS-BUILTS, MANUALS, ETC. HAVE BEEN SUBMITTED.
- 10 CONTRACTOR SHALL SURVEY AND RECORD THE CONDITION OF EXISTING COMPONENTS THAT ARE TO REMAIN IN PLACE THAT MAY BE AFFECTED BY DEMOLITION OPERATIONS.
- 11 DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL EXTENT OF WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION AND PROPER INSTALLATION OF SYSTEM. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY OFF-SETS AND FITTINGS WHICH MAY BE REQUIRED DUE TO SPACE CONSTRAINTS. NOTIFY ENGINEER AND OWNER IMMEDIATELY SHOULD ANY CONFLICT ARISE.
- 12 ALL WORK SHALL COMPLY WITH THE REQUIREMENTS OF FEDERAL, STATE, AND LOCAL CODES AND ORDINANCES.
- 13 CONTRACTOR IS REQUIRED TO FIELD VERIFY ALL DIMENSIONS AND CONDITIONS FOR POSSIBLE INTERFERENCES. CONTRACTOR SHALL VISIT FIELD AND SITE PRIOR TO BIDDING PROCESS TO VERIFY EXISTING CONDITIONS AND INTERFERENCES.
- 14 DO NOT SCALE DRAWINGS. LOCATIONS OF NEW PIPES, NEW GROUND HYDRANTS (HOSE BIBBS), NEW CONCRETE PADS, AND NEW PIPING WITH METER IN THE MANHOLE ARE SHOWN DIAGRAMMATICALLY AND ARE APPROXIMATE. ACTUAL LOCATIONS ARE TO BE DETERMINED BY FIELD CONDITIONS.
- 15 PROVIDE ALL PENETRATIONS AS REQUIRED.
- 16 CONTRACTOR SHALL APPLY SELECTIVE DEMOLITION IN REMOVING ALL OF THE COMPONENTS.
- 17 CONTRACTOR SHALL COORDINATE ALL WORK WITH CIVIL WORK, LANDSCAPE WORK, AND OTHER RELATED TRADES.
- 18 ALL DRAWINGS ARE DIAGRAMMATIC. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM THE EXISTING SITE CONDITIONS AND INSTALLATION CLEARANCES PRIOR TO SHOP DRAWING SUBMISSIONS AND INSTALLATIONS. SHOULD THE CONTRACTOR DETERMINE THAT THE INSTALLATION OF ANY PLUMBING COMPONENT IS RESTRICTED OR NOT ABLE TO BE INSTALLED IN THE SUGGESTED LOCATION, THE CONTRACTOR SHALL READDRESS THE INSTALLATION ACCORDINGLY AND IN COMPLIANCE WITH ALL RELEVANT CODES OF AGENCIES HAVING JURISDICTION AT NO ADDITIONAL COST.
- 19 CONTRACTOR SHALL BE RESPONSIBLE FOR A FULL AND COMPLETE INSTALLATION AND PROPER FUNCTIONING OF THE PLUMBING SYSTEM THAT IS ACCEPTABLE BY THE CITY OF PHILADELPHIA.
- 20 CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ANY OBJECTS OR OBSTRUCTION DURING EXCAVATIONS OF THE TRENCH. IF THE OBJECTS ARE VALUABLE, THEY WILL BE TRANSFERRED/HANDED OVER TO THE CITY OF PHILADELPHIA. OTHERWISE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR DISCARDING THEM FROM THE SITE.
- 21 CONTRACTOR MUST NOT INTERRUPT EXISTING UTILITIES SERVING OCCUPIED OR OPERATIONAL FACILITIES, EXCEPT WHEN AUTHORIZED BY PHILADELPHIA WATER DEPARTMENT (PWD). PROVIDE TEMPORARY SERVICES DURING INTERRUPTIONS TO EXISTING UTILITIES AS ACCEPTABLE TO PWD.

| REVISIONS | | |
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| ISSUE | DATE | DESCRIPTION |
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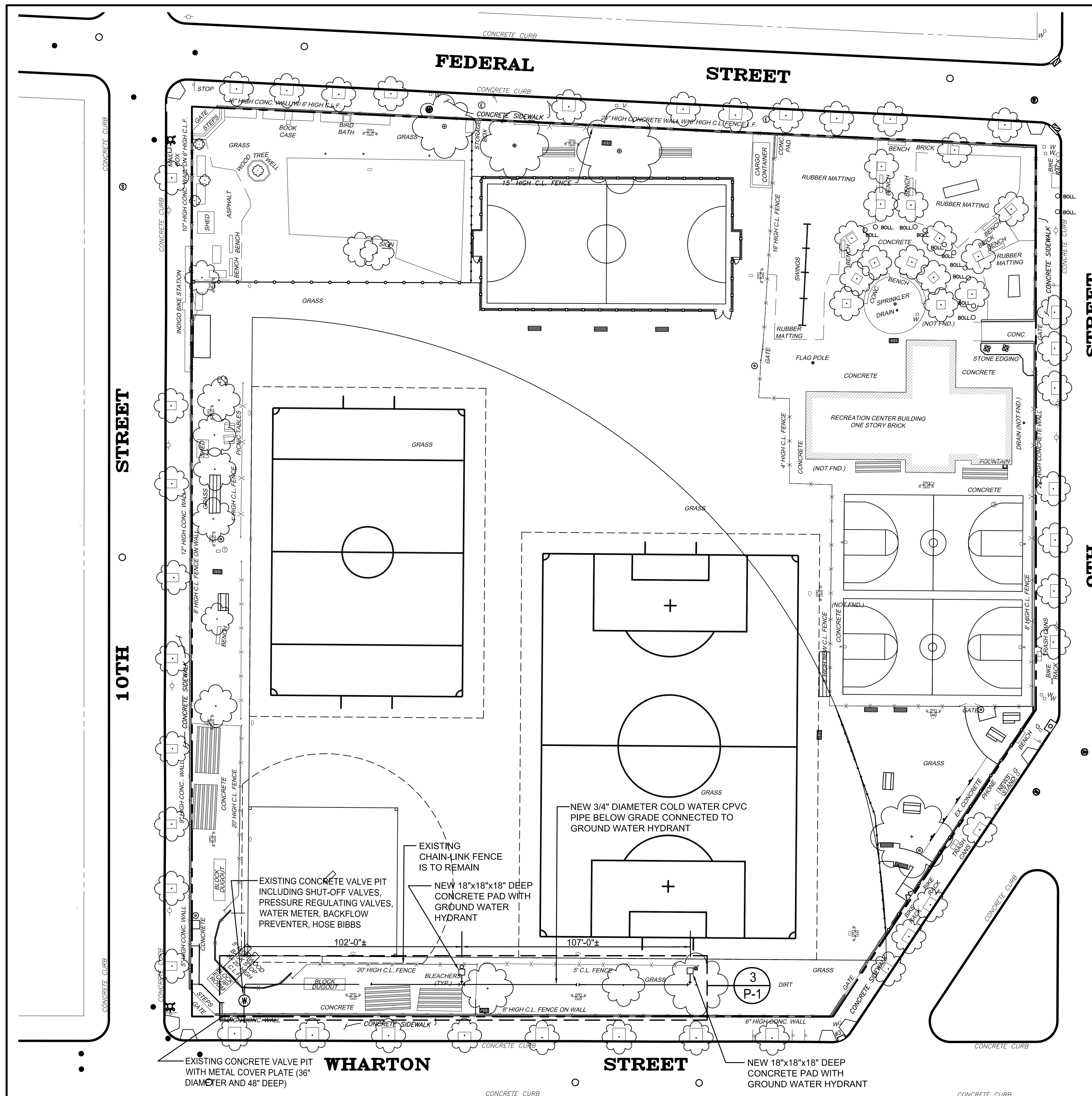
CITY OF PHILADELPHIA
PHILADELPHIA PARKS & RECREATION
1515 ARCH STREET
11TH FLOOR, ONE PARKWAY BUILDING
PHILADELPHIA, PENNSYLVANIA

PROJECT TITLE
Rebuild
CAPITOLE PLAYGROUND
FIELD RENOVATIONS

DRAWING TITLE
GENERAL PLUMBING
NOTES

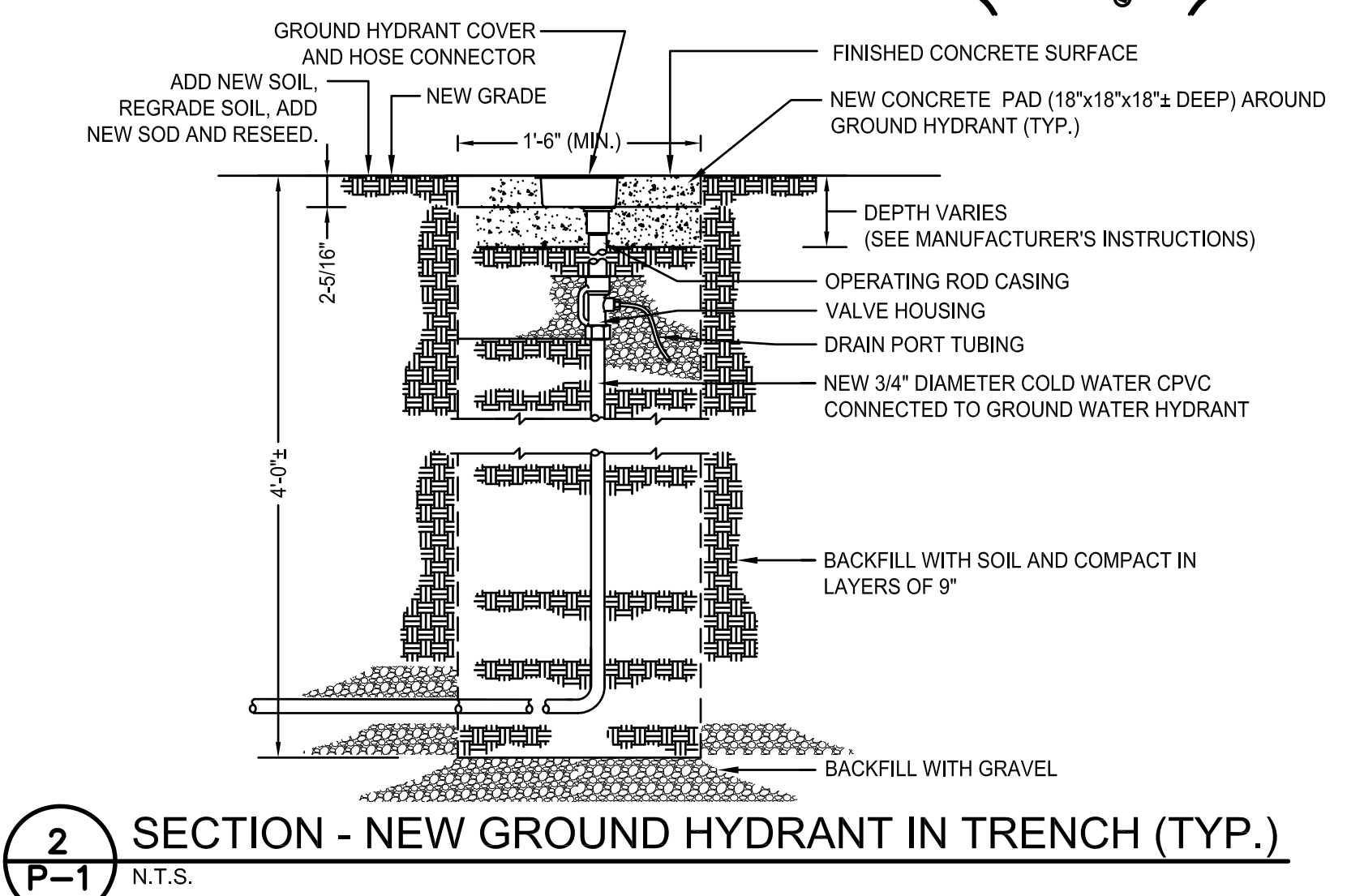
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| PROJECT NO. 16150E-05-02 | DRAWING NO. P-001 |
| DATE: JULY 9, 2021 | |
| SCALE: AS SHOWN | |
| DRAWN BY: | |
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NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.

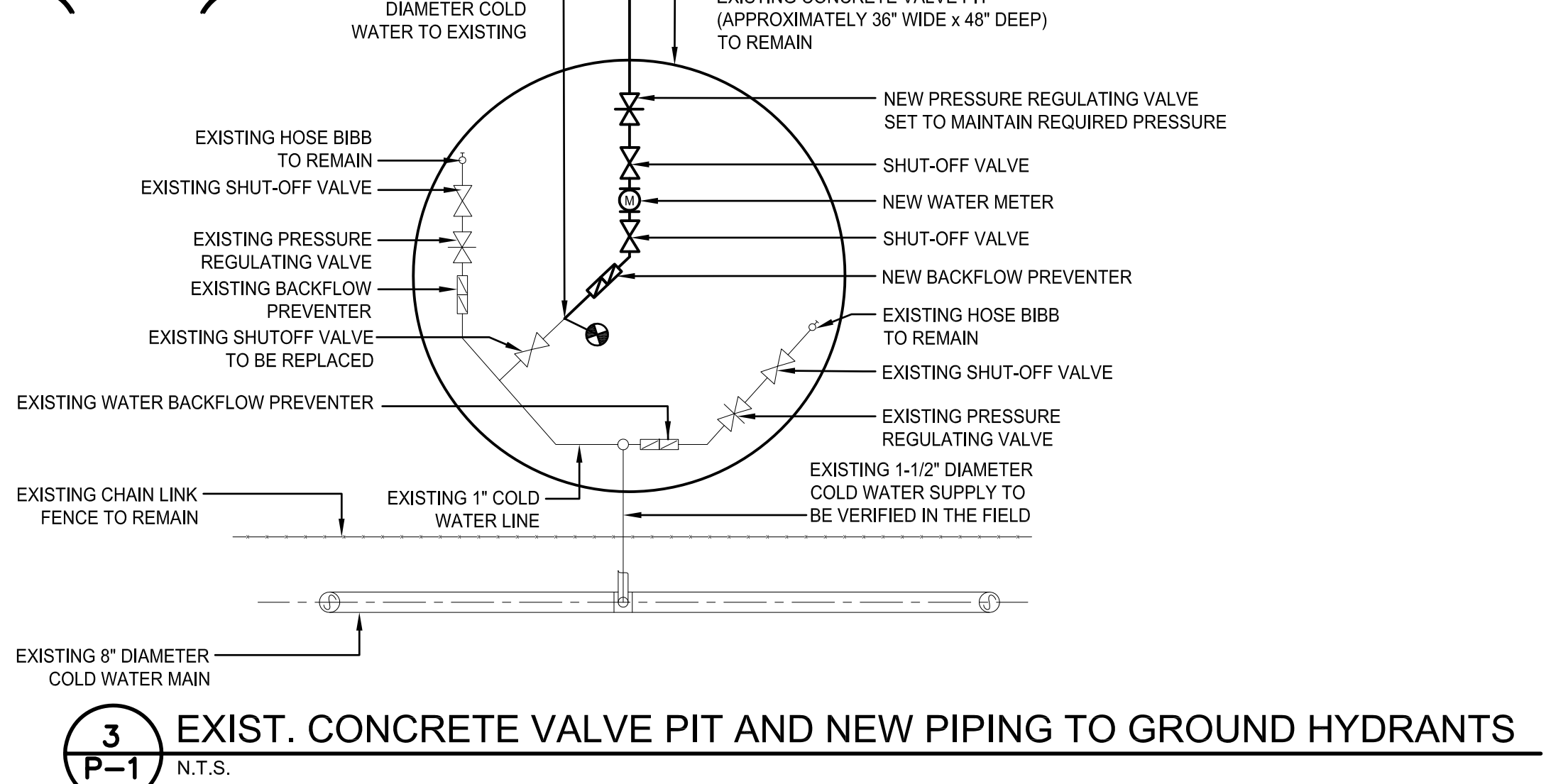


1 PLAN - PLUMBING LAYOUT
SCALE: 1"=30'

| EQUIPMENT SCHEDULE | | |
|--------------------|--------------------|-----------------------------------|
| ITEM | MANUFACTURER MODEL | REMARKS |
| WATER REEL | KIFCO B140/E140 | |
| GROUND HYDRANT | ZURN Z1360XL | NON-FREEZE, WITH METAL COVER/LOCK |
| | | |
| | | |



2 SECTION - NEW GROUND HYDRANT IN TRENCH (TYP.)
N.T.S.



3 EXIST. CONCRETE VALVE PIT AND NEW PIPING TO GROUND HYDRANTS
N.T.S.

LEAK TESTS NOTES:

- OWNER MUST BE NOTIFIED BY THE CONTRACTOR THREE (3) DAYS BEFORE A PRESSURE TEST SO THAT OWNER CAN SCHEDULE A CITY OF PHILADELPHIA INSPECTOR TO WITNESS THE TEST.
- THE TIME-PRESSURE TEST SHALL BE PERFORMED AFTER THE ENTIRE UNDERGROUND SYSTEM IS COMPLETE.
- PLASTIC PIPE SHALL BE TESTED WITH AIR 90 PSIG ON THE PIPING SYSTEM. THE CONTRACTOR SHALL TEST WITH SOAP SUDS EVERY JOINT, FITTING, WELD, FUSION, AND VALVE, AS WELL AS ANY OTHER PART WHICH CITY OF PHILADELPHIA MAY DESIGNATE.
- ALL VALVES SHALL BE IN THE OPEN POSITION FOR THE DURATION OF EACH OF THESE TESTS.
- ANY DEFECTIVE MATERIAL DISCOVERED BY THESE TESTS SHALL BE REMOVED AND GOOD MATERIAL SUBSTITUTED.

SHEET NOTES:

- FIELD VERIFY EXISTING CONDITIONS BEFORE ANY EXCAVATION OR WORK.
- USE A MASTER LOCATOR TO FIND ALL OF THE UTILITIES IN THE TRENCH AREA THAT IS BEING EXCAVATED. THE SCANNING WITH MASTER LOCATOR WILL IDENTIFY ANY EXISTING UNDERGROUND UTILITY LINES OR STONES/OBJECTS WHICH WILL REQUIRE PROTECTION OR REMOVAL/RELOCATIONS AND COORDINATION WITH CITY OF PHILADELPHIA AND ANY AGENCY/AUTHORITY HAVING JURISDICTION. IT IS REQUIRED TO CALL PA ONE CALL BEFORE ANY EXCAVATION IS PERFORMED.
- EXCAVATE TRENCH OF 4'-0"± DEEP x 18"± WIDE FOR THE INSTALLATION OF THE NEW 3/4" DIAMETER CPVC PIPES AND NEW GROUND HYDRANTS.
- ALL WATER PIPE LINES IN THE TRENCH SHALL BE LAYED AT A MINIMUM OF 3' DEEP TO AVOID FROST ACTION.
- THE WIDTH OF THE TRENCH FOR THE WATER PIPES MAY BE LESS THAN 18".
- BACKFILL TRENCH AFTER INSTALLATION OF THE PIPING SYSTEM. ALL BACKFILLING FOR TRENCHES SHALL BE ACCORDING TO INDUSTRY AND CONSTRUCTION STANDARDS AND CODES. ALL BACKFILLING SHALL BE COMPACTED IN LAYERS OF 6".
- PROVIDE TWO GROUND WATER HYDRANTS AT THE LOCATIONS SHOWN ON THE DRAWING. NOTE THAT LOCATIONS ARE APPROXIMATE. ACTUAL LOCATIONS SHALL BE DETERMINED AT THE SITE AND WILL BE COORDINATED WITH THE ENGINEER AND THE CITY OF PHILADELPHIA.
- THE INSTALLATION OF GROUND WATER HYDRANTS (HOSE BIBBS) WILL BE ACCORDING TO MANUFACTURER'S REQUIREMENTS AND INSTRUCTIONS. HYDRANT WILL BE NON-FREEZE, VANDAL-PROOF, AND FLUSH WITH CONCRETE SURFACE. ALSO, GROUND HYDRANT WILL BE DESIGNED WITH SIPHON-RESISTANT DRAIN PORT THAT IS TAPPED 1/4" FOR DRAIN PIPING CONNECTION.
- PROVIDE NEW 3/4" DIAMETER CPVC WATER LINE FOR WATER SUPPLY TO THE TWO GROUND WATER HYDRANTS (HOSE BIBBS) AS SHOWN ON DRAWING.
- PROVIDE NEW 3/4" DIAMETER CPVC WATER LINE. VERIFY AS REQUIRED THE WATER PRESSURE (IN PSI) ON THE EXISTING COPPER COLD WATER LINE BEFORE CONNECTING TO THE
- REMOVE AND REPLACE EXISTING WATER METER AND ANY VALVES IN THE EXISTING VALVE PIT THAT ARE NO LONGER FUNCTIONING OR ARE DAMAGED. IN THE VALVE PIT IF THERE IS NO EXISTING BACKFLOW PREVENTER, INSTALL A NEW BACKFLOW PREVENTER IN THE NEW COLD WATER LINE SUPPLY TO THE GROUND HYDRANT WATER LINE. PROVIDE NEW BACKFLOW WATER PREVENTER, INCLUDING NEW SHUT-OFF VALVES AS REQUIRED.
- PROVIDE KIFCO B-140/E-140 WATER REEL EQUIPMENT OR AS APPROVED EQUAL. WATER REEL SHALL BE CAPABLE OF CONNECTING TO THE NEW GROUND HYDRANTS. PROVIDE AND INSTALL A 3/4" CAM LOCK ADAPTABLE TO THE WATER REEL EQUIPMENT SYSTEM ON THE GROUND HYDRANT.
- PROVIDE CONCRETE PAD/FOOTING (18"x18"x18" DEEP) AROUND THE NEW GROUND HYDRANTS. CONCRETE FOR THE NEW PAD AROUND THE NEW GROUND WATER HYDRANT SHALL BE 4,000 PSI WITH MESH WIRE AS REQUIRED. THE NEW CONCRETE PAD SHALL BE 18"x18"x18" DEEP.
- ADD NEW SOIL AROUND CONCRETE PAD AND REGRADE SOIL. RESOD AND RESEED ON THE NEW GRADE AS REQUIRED.
- IF THE EXISTING COPPER WATER LINE IN THE VALVE PIT IS CONNECTED TO EXISTING WATER FOUNTAIN, THE WATER LINE SHALL BE DISCONNECTED AND CAPPED.
- PROVIDE A 18"± DEEP HOLE AT HYDRANT BOTTOM AND FILL HOLE WITH GRAVEL. PROVIDE GRAVEL BELOW THE UPPER PORTION AND GRAVEL OF 18"± DEEP AT THE BOTTOM OF THE GROUND WATER HYDRANT PIPE AROUND DRAIN PORT AND VALVE HOUSING. PROVIDE DRAIN PORT TUBING AS REQUIRED. SEE DETAIL DRAWING 2. THE GROUND HYDRANT SHALL DRAIN INTO THE GROUND (GRAVEL) AT THE BOTTOM OF THE HYDRANT.
- PROVIDE AND INSTALL 18"x18"x18"± DEEP CONCRETE PAD OVER THE GROUND HYDRANT AND FLUSH TOP OF CONCRETE ENCASUREMENT WITH THE GRADE.
- PROVIDE A LOCKABLE COVER ON TOP OF THE GROUND HYDRANT TO SECURE THE HYDRANT.
- ALL PLUMBING WORK SHALL COMPLY WITH PHILADELPHIA PLUMBING CODE AND CODES OF LOCAL, STATE, AND FEDERAL AGENCIES HAVING JURISDICTION.
- ALL PLUMBING WORK SHALL BE INSPECTED BY LICENSED PLUMBING INSPECTOR, INCLUDING THE CITY OF PHILADELPHIA.
- TESTING OF PLUMBING WATER LINE (SYSTEM) IS REQUIRED AND SHALL BE ACCORDING TO PHILADELPHIA PLUMBING CODE.
- COORDINATE ALL PLUMBING WORK WITH OTHER TRADES.
- REGRADE ALL DISTURBED AREAS AND RESEED WITH GRASS SEEDS AS REQUIRED.
- PROVIDE SHOP DRAWINGS FOR THE INSTALLATION OF THE NEW GROUND WATER HYDRANTS AND CONNECTIONS OF 3/4" DIAMETER CPVC WATER LINE TO THE EXISTING COPPER WATER LINE IN THE EXISTING VALVE PIT FOR REVIEW AND APPROVAL BEFORE INSTALLATION.
- CONTRACTOR SHALL PROVIDE PIPE PENETRATION THROUGH THE EXISTING VALVE PIT AND CAULK OPENING AROUND THE PIPE AS REQUIRED.
- THE LOCATION OF 3/4" DIAMETER COLD WATER CPVC PIPE IS APPROXIMATE. THE ACTUAL ROUTING AND LAYING OF PIPES SHALL BE DETERMINED IN THE FIELD.
- CONTRACTOR SHALL DETERMINE ELEVATIONS OF EXISTING WATER LINES AND UTILIZE THIS INFORMATION TO DETERMINE THE FINAL ELEVATION OF THE NEW WATER LINE (CPVC).
- PROVIDE CONCRETE WEDGES AT ALL ELBOWS AND TEES ALONG THE PIPING SYSTEM TO PREVENT LATERAL MOVEMENT OF THE PIPING.

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Rebuild
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DRAWING TITLE
NEW WORK - PLUMBING LAYOUT, DETAILS, AND EQUIPMENT SCHEDULE

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