

# PEAY PARK SPLASH PAD

200 MEMORIAL DRIVE  
GOODLETTSVILLE, DAVIDSON COUNTY, TENNESSEE



VICINITY MAP  
SCALE: NONE

## INDEX OF DRAWINGS

DESCRIPTION	SHEET NAME
VICINITY MAP & INDEX	VMI
SITE SURVEY	C1.0
DEMOLITION PLAN	C2.0
SITE LAYOUT	C3.0
SITE UTILITY PLAN	C3.1
SITE GRADING & EROSION CONTROL PLAN	C4.0
CIVIL DETAILS	C5.0
CIVIL DETAILS	C5.1



**BRYAN PRICE ENGINEERING**  
865 COKER FORD ROAD  
PORTLAND, TENNESSEE 37148  
PHONE: 615-481-3176 EMAIL: BRYAN.PRICE@REAGAN.COM

DATE	REVISIONS



DATE:	DECEMBER 2017
DRAWN BY:	PRICE
CHECKED BY:	PRICE
APPROVED BY:	PRICE

VICINITY MAP & INDEX  
PEAY PARK SPLASH PAD  
CITY OF GOODLETTSVILLE  
DAVIDSON COUNTY, TENNESSEE

SHEET NO.  
VMI

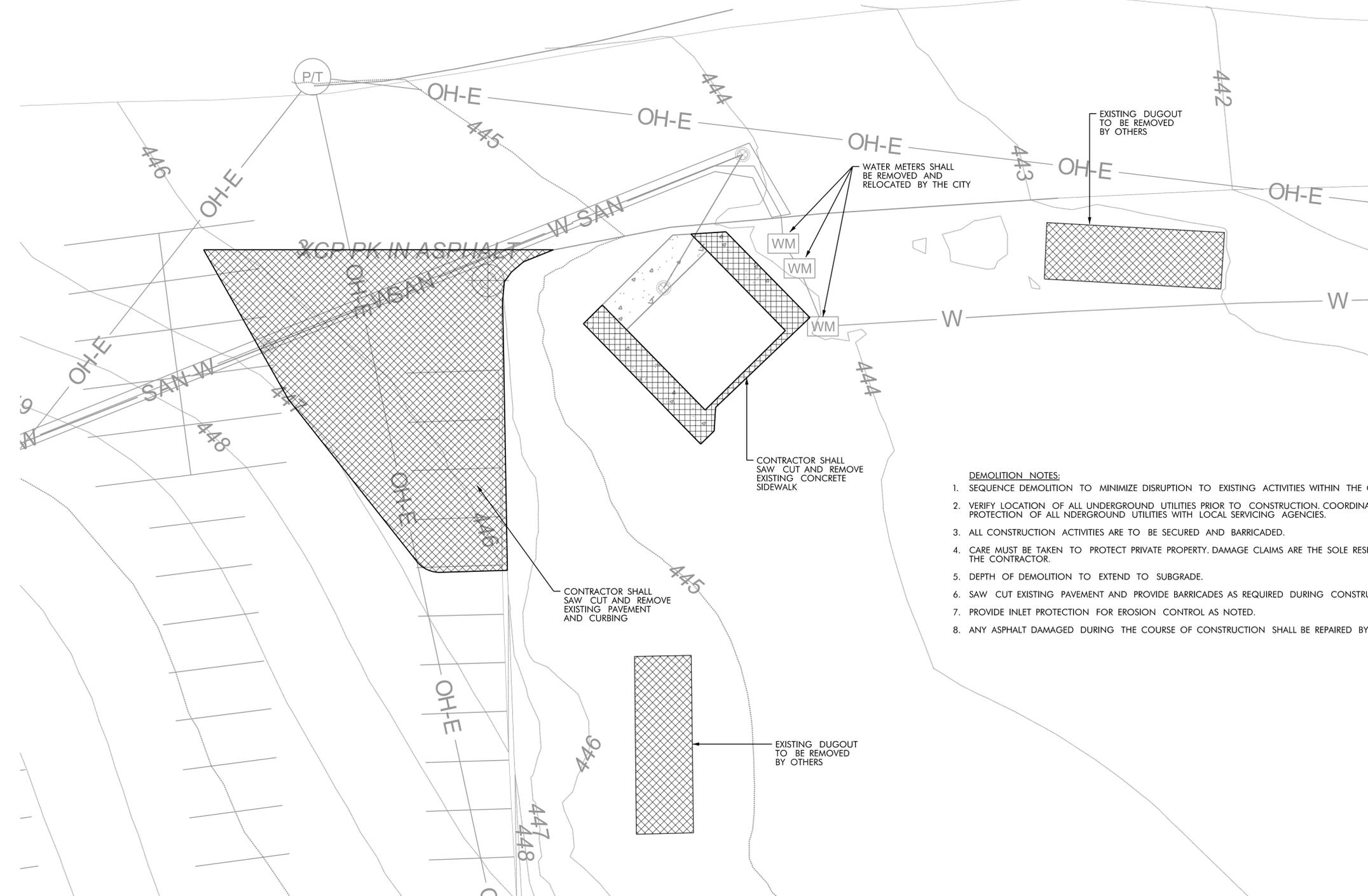
DATES  
FILES  
STIMES

DATE: MAY 2018

FILE NO.: 0301-02

JOB NO. 0301-02





- DEMOLITION NOTES:**
1. SEQUENCE DEMOLITION TO MINIMIZE DISRUPTION TO EXISTING ACTIVITIES WITHIN THE CONSTRUCTION ZONE.
  2. VERIFY LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION. COORDINATE RELOCATION AND PROTECTION OF ALL UNDERGROUND UTILITIES WITH LOCAL SERVICING AGENCIES.
  3. ALL CONSTRUCTION ACTIVITIES ARE TO BE SECURED AND BARRICADED.
  4. CARE MUST BE TAKEN TO PROTECT PRIVATE PROPERTY. DAMAGE CLAIMS ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
  5. DEPTH OF DEMOLITION TO EXTEND TO SUBGRADE.
  6. SAW CUT EXISTING PAVEMENT AND PROVIDE BARRICADES AS REQUIRED DURING CONSTRUCTION.
  7. PROVIDE INLET PROTECTION FOR EROSION CONTROL AS NOTED.
  8. ANY ASPHALT DAMAGED DURING THE COURSE OF CONSTRUCTION SHALL BE REPAIRED BY THE CONTRACTOR.



**BRYAN PRICE ENGINEERING**  
 865 COKER FORD ROAD  
 PORTLAND, TENNESSEE 37148  
 PHONE: 615-481-3176 EMAIL: BRYAN.PRICE@REACAN.COM

REVISIONS	DATE

DATE:	DECEMBER 2017
DRAWN BY:	PRICE
CHECKED BY:	PRICE
APPROVED BY:	PRICE

**DEMOLITION PLAN**  
 PEAY PARK SPLASH PAD  
 CITY OF GOODLETTSVILLE  
 DAVIDSON COUNTY, TENNESSEE

SHEET NO.  
**C2.0**

**GENERAL NOTES TO CONTRACTOR:**

1. SITE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH VORTEX CONTRACT THROUGHOUT CONSTRUCTION.
2. BENCHES AND TRASHCANS WILL BE PURCHASED & INSTALLED BY OWNER

**GATE AND DECORATIVE FENCING NOTE:**

1. SEE ARCHITECTURAL PLANS FOR DETAILS FOR GATE AND DECORATIVE FENCING

**DEVELOPMENT SUMMARY**

OWNER	CITY OF GOODLETTSVILLE 105 S MAIN ST GOODLETTSVILLE, TN 37072
PROPERTY ADDRESS	200 MEMORIAL DR GOODLETTSVILLE, TN 37072
EXISTING USE:	PARKS AND RECREATION
PROPOSED USE:	PARKS AND RECREATION
ZONING	A (AGRICULTURAL)

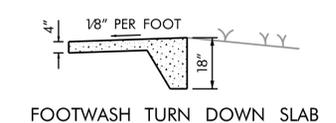
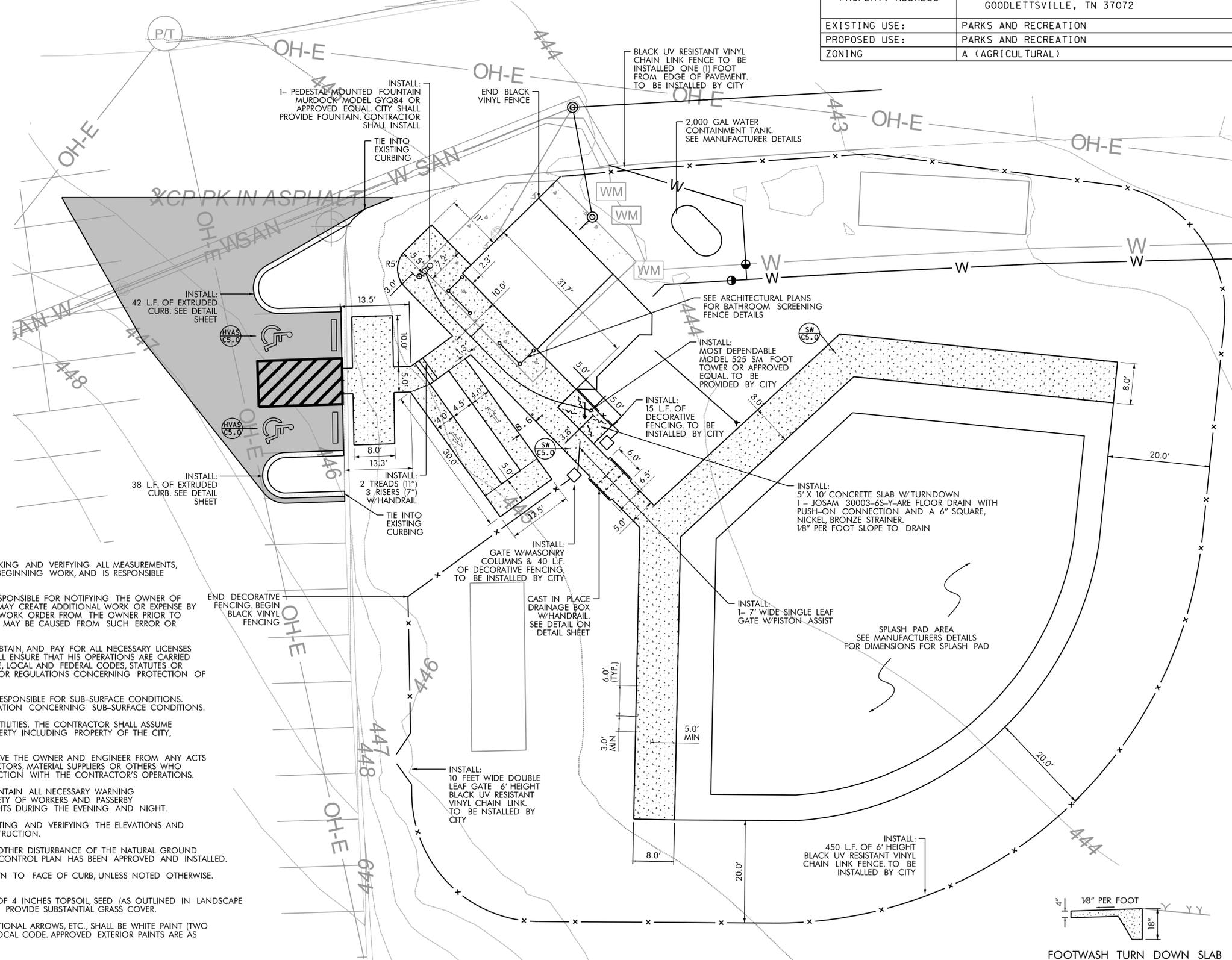
**CONSTRUCTION LEGEND**

-  STANDARD SIDEWALK
-  HANDICAP VAN ACCESSIBLE SPACE
-  ASPHALT PAVEMENT
-  CONCRETE SIDEWALK

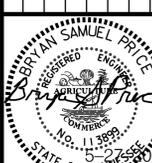
**GENERAL SITE LAYOUT NOTES:**

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING AND VERIFYING ALL MEASUREMENTS, ELEVATIONS, ETC. BEFORE ORDERING MATERIALS OR BEGINNING WORK, AND IS RESPONSIBLE FOR THE SAME.
2. THE CONTRACTOR IS CAUTIONED AND SHALL BE RESPONSIBLE FOR NOTIFYING THE OWNER OF ANY ERROR OR OMISSION ON THE PLANS WHICH MAY CREATE ADDITIONAL WORK OR EXPENSE BY THE CONTRACTOR, AND SHALL OBTAIN A WRITTEN WORK ORDER FROM THE OWNER PRIOR TO PROCEEDING WITH ANY ADDITIONAL WORK WHICH MAY BE CAUSED FROM SUCH ERROR OR OMISSION ON THE PLANS.
3. THE CONTRACTOR SHALL MAKE APPLICATION FOR, OBTAIN, AND PAY FOR ALL NECESSARY LICENSES AND PERMITS REQUIRED FOR THIS PROJECT. HE SHALL ENSURE THAT HIS OPERATIONS ARE CARRIED OUT IN CONFIRMATION WITH ALL APPLICABLE, STATE, LOCAL AND FEDERAL CODES, STATUTES OR REGULATIONS INCLUDING THOSE CODES, STATUTES OR REGULATIONS CONCERNING PROTECTION OF LIVES AND PROPERTIES.
4. NEITHER THE OWNERS OR THE ENGINEER SHALL BE RESPONSIBLE FOR SUB-SURFACE CONDITIONS. THE CONTRACTOR SHALL MAKE HIS OWN DETERMINATION CONCERNING SUB-SURFACE CONDITIONS.
5. CARE SHALL BE TAKEN TO PROTECT ALL EXISTING UTILITIES. THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR ANY DAMAGE TO PRIVATE PROPERTY INCLUDING PROPERTY OF THE CITY, COUNTY, STATE OR FEDERAL GOVERNMENT.
6. THE CONTRACTOR SHALL "HOLD HARMLESS" AND SAVE THE OWNER AND ENGINEER FROM ANY ACTS OF THE CONTRACTOR, HIS EMPLOYEES, SUB-CONTRACTORS, MATERIAL SUPPLIERS OR OTHERS WHO MAY BE PERFORMING WORK OR DUTIES IN CONNECTION WITH THE CONTRACTOR'S OPERATIONS.
7. THE CONTRACTOR SHALL FURNISH, INSTALL AND MAINTAIN ALL NECESSARY WARNING DEVICES FOR PROTECTION OF THE WORK AND SAFETY OF WORKERS AND PASSERBY INCLUDING BARRICADES, WARNING SIGNS AND LIGHTS DURING THE EVENING AND NIGHT.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND VERIFYING THE ELEVATIONS AND LOCATIONS OF EXISTING UTILITIES PRIOR TO CONSTRUCTION.
9. NO GRADING, STRIPPING, EXCAVATION, FILLING OR OTHER DISTURBANCE OF THE NATURAL GROUND SHALL TAKE PLACE UNTIL PROPOSED SOIL EROSION CONTROL PLAN HAS BEEN APPROVED AND INSTALLED.
10. ALL DIMENSIONS INVOLVING CURB RADII ARE SHOWN TO FACE OF CURB, UNLESS NOTED OTHERWISE. ALL CURB RADII ARE 5.0' UNLESS NOTED OTHERWISE.
11. ALL UNPAVED AREAS ARE TO RECEIVE A MINIMUM OF 4 INCHES TOPSOIL, SEED (AS OUTLINED IN LANDSCAPE PLANS), MULCHED AND WATERED AS NECESSARY TO PROVIDE SUBSTANTIAL GRASS COVER.
12. ALL PAVEMENT MARKINGS INCLUDING STRIPES, DIRECTIONAL ARROWS, ETC., SHALL BE WHITE PAINT (TWO COATS). HANDICAP SYMBOL COLORS SHALL BE PER LOCAL CODE. APPROVED EXTERIOR PAINTS ARE AS FOLLOWS:

PRATT AND LAMBERT TRAFFIC PAINT  
SHERWIN-WILLIAMS PRO-MAR TRAFFIC MARKING PAINT B29 SERIES  
GLIDDEN ROMARK TRAFFIC PAINT  
PPG ZONE AND TRAFFIC MARKING PAINT



**BPE**  
BRYAN PRICE ENGINEERING  
865 COKER FORD ROAD  
PORTLAND, TENNESSEE 37148  
PHONE: 615-481-3176  
EMAIL: BRYAN.PRICE@REACAN.COM

DATE: \_\_\_\_\_  
REVISIONS: \_\_\_\_\_  


DATE:	DECEMBER 2017
DRAWN BY:	PRICE
CHECKED BY:	PRICE
APPROVED BY:	PRICE

**SITE LAYOUT**  
PEAY PARK SPLASH PAD  
CITY OF GOODLETTSVILLE  
DAVIDSON COUNTY, TENNESSEE

SHEET NO. **C3.0**  
JOB NO. 0301-02

DATES  
FILES

**SEWER NOTES:**

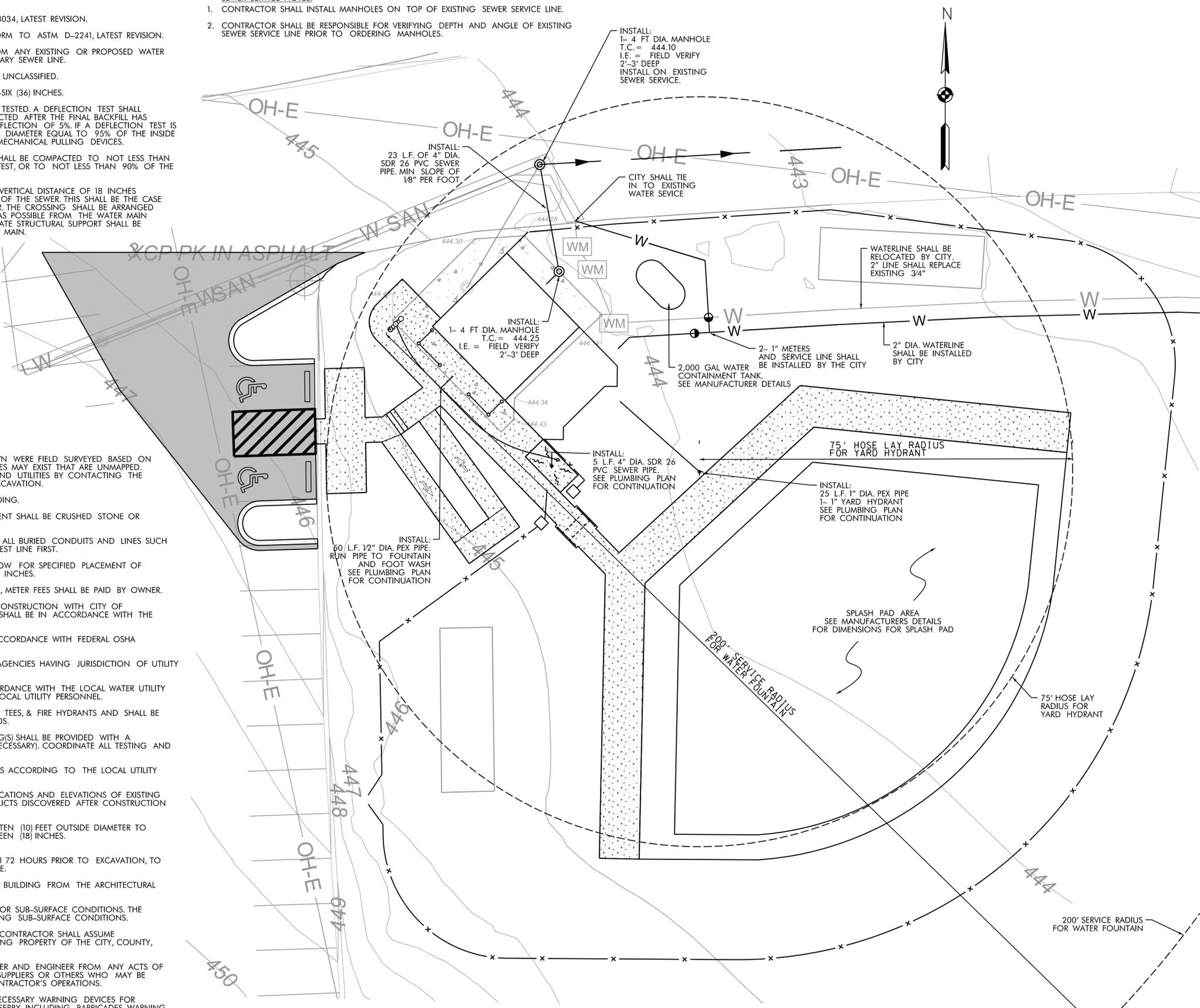
- PVC PIPE MATERIAL AND JOINTS SHALL CONFORM TO ASTM D-3034, LATEST REVISION.
- FLEXIBLE THERMOPLASTIC SEWER PIPE INSTALLATION SHALL CONFORM TO ASTM D-2241, LATEST REVISION.
- ALL SEWER LINES SHALL BE LAID TEN (10) FEET HORIZONTALLY FROM ANY EXISTING OR PROPOSED WATER MAIN EXCEPT WHERE THE WATER MAIN CROSSES OVER THE SANITARY SEWER LINE.
- ALL PIPELINE TRENCHING AND STRUCTURE EXCAVATION SHALL BE UNCLASSIFIED.
- SANITARY SEWER PIPE SHALL HAVE A MINIMUM COVER OF THIRTY-SIX (36) INCHES.
- ALL SEWERS SHALL BE SMOKE TESTED AND/OR LOW PRESSURE AIR TESTED. A DEFLECTION TEST SHALL BE PERFORMED ON ALL FLEXIBLE PIPE. THE TEST SHALL BE CONDUCTED AFTER THE FINAL BACKFILL HAS BEEN IN PLACE AT LEAST 30 DAYS. NO PIPE SHALL EXCEED A DEFLECTION OF 5%. IF A DEFLECTION TEST IS TO BE RUN USING A RIGID BALL OR MANDREL, IT SHALL HAVE A DIAMETER EQUAL TO 95% OF THE INSIDE DIAMETER OF THE PIPE. THE TEST SHALL BE PERFORMED WITHOUT MECHANICAL PULLING DEVICES.
- SUBGRADE AND BACKFILL FOR SEWERS LOCATED IN FILL AREAS SHALL BE COMPACTED TO NOT LESS THAN 95% OF DENSITY DETERMINED FROM THE STANDARD PROCTOR TEST, OR TO NOT LESS THAN 90% OF THE DENSITY DETERMINED BY THE MODIFIED AASHTO METHOD.
- SEWERS CROSSING WATER MAINS SHALL BE LAID TO PROVIDE A VERTICAL DISTANCE OF 18 INCHES BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF THE SEWER. THIS SHALL BE THE CASE WHERE THE WATER MAIN IS EITHER ABOVE OR BELOW THE SEWER. THE CROSSING SHALL BE ARRANGED SO THAT THE SEWER JOINTS WILL BE EQUIDISTANT AND AS FAR AS POSSIBLE FROM THE WATER MAIN JOINTS. WHERE A WATER MAIN CROSSES UNDER A SEWER, ADEQUATE STRUCTURAL SUPPORT SHALL BE PROVIDED FOR THE SEWER TO PREVENT DAMAGE TO THE WATER MAIN.

**SEWER SERVICE NOTES:**

- CONTRACTOR SHALL INSTALL MANHOLES ON TOP OF EXISTING SEWER SERVICE LINE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING DEPTH AND ANGLE OF EXISTING SEWER SERVICE LINE PRIOR TO ORDERING MANHOLES.

**GENERAL UTILITY NOTES:**

- THE CONTRACTOR IS ADVISED THAT ALL EXISTING UTILITIES SHOWN WERE FIELD SURVEYED BASED ON LOCATIONS PROVIDED BY EACH UTILITY COMPANY. OTHER UTILITIES MAY EXIST THAT ARE UNMAPPED. THE CONTRACTOR IS ADVISED TO FIELD VERIFY ALL UNDERGROUND UTILITIES BY CONTACTING THE APPROPRIATE UTILITY COMPANY AT LEAST 48 HOURS PRIOR TO EXCAVATION.
- ALL UTILITIES TO BE CONSTRUCTED TO WITHIN 5 FEET OF BUILDING.
- BACKFILL OF ALL TRENCHES BENEATH STRUCTURES AND/OR PAVEMENT SHALL BE CRUSHED STONE OR SIMILAR MATERIAL AS APPROVED BY THE ENGINEER.
- CONTRACTORS ARE ADVISED TO COORDINATE INSTALLATION OF ALL BURIED CONDUITS AND LINES SUCH THAT LINES WHICH CROSS ARE LAID BEGINNING WITH THE DEEPEST LINE FIRST.
- DEPTH OF WATERLINE SHALL BE ADJUSTED AS REQUIRED TO ALLOW FOR SPECIFIED PLACEMENT OF SANITARY AND STORM SEWERS, BUT IN NO CASE LESS THAN 36 INCHES.
- TAPPING AND INSPECTION FEES SHALL BE PAID BY CONTRACTOR, METER FEES SHALL BE PAID BY OWNER.
- CONTRACTOR SHALL COORDINATE WATER AND SEWER SERVICES CONSTRUCTION WITH CITY OF GOODLETTSVILLE WATER DEPARTMENT. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE LOCAL UTILITY COMPANY.
- ALL TRENCHING, PIPE LAYING AND BACK FILLING SHALL BE IN ACCORDANCE WITH FEDERAL OSHA REGULATIONS.
- CONTRACTOR SHALL OBTAIN APPROVAL FROM ALL GOVERNING AGENCIES HAVING JURISDICTION OF UTILITY SYSTEMS PRIOR TO INSTALLATION.
- ALL GATE VALVES SHALL BE PROVIDED WITH VALVE BOX IN ACCORDANCE WITH THE LOCAL WATER UTILITY STANDARDS. MAIN WATER VALVES SHALL ONLY BE OPERATED BY LOCAL UTILITY PERSONNEL.
- THRUST BLOCKS SHALL BE PROVIDED AT ALL BENDS, TEES, TAPPING TEES, & FIRE HYDRANTS AND SHALL BE CONSTRUCTED ACCORDING TO LOCAL WATER UTILITY STANDARDS.
- ALL WATER AND SANITARY SEWER SERVICE LINES TO THE BUILDING(S) SHALL BE PROVIDED WITH A TEMPORARY PLUG (FOR OTHERS TO REMOVE AND EXTEND AS NECESSARY). COORDINATE ALL TESTING AND INSPECTION WITH THE LOCAL UTILITY COMPANY.
- THE CONTRACTOR SHALL FLUSH AND TEST ALL NEW UTILITY LINES ACCORDING TO THE LOCAL UTILITY COMPANY STANDARDS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATIONS AND ELEVATIONS OF EXISTING AND PROPOSED UTILITIES PRIOR TO CONSTRUCTION. ANY CONFLICTS DISCOVERED AFTER CONSTRUCTION HAS BEGUN SHALL BE CORRECTED AT CONTRACTOR'S EXPENSE.
- THE MINIMAL SEPERATION BETWEEN WATER AND SEWER LINES IS TEN (10) FEET OUTSIDE DIAMETER TO OUTSIDE DIAMETER. THE MINIMUM VERTICAL SEPERATION IS EIGHTEEN (18) INCHES.
- BEFORE YOU DIG:  
CONTRACTOR SHALL NOTIFY TNONECALL, CALL 811 OR 800-351-1111 72 HOURS PRIOR TO EXCAVATION, TO LOCATE ALL UNDERGROUND UTILITIES WITHIN THE PROPOSED SITE.
- CONTRACTOR SHALL VERIFY LOCATIONS THAT UTILITIES ENTER THE BUILDING FROM THE ARCHITECTURAL PLANS PRIOR TO INSTALLING UTILITY SERVICE LINE.
- NEITHER THE OWNERS OR THE ENGINEER SHALL BE RESPONSIBLE FOR SUB-SURFACE CONDITIONS. THE CONTRACTOR SHALL MAKE HIS OWN DETERMINATION CONCERNING SUB-SURFACE CONDITIONS.
- CARE SHALL BE TAKEN TO PROTECT ALL EXISTING UTILITIES. THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR ANY DAMAGE TO PRIVATE PROPERTY INCLUDING PROPERTY OF THE CITY, COUNTY, STATE OR FEDERAL GOVERNMENT.
- THE CONTRACTOR SHALL "HOLD HARMLESS" AND SAVE THE OWNER AND ENGINEER FROM ANY ACTS OF THE CONTRACTOR, HIS EMPLOYEES, SUB-CONTRACTORS, MATERIAL SUPPLIERS OR OTHERS WHO MAY BE PERFORMING WORK OR DUTIES IN CONNECTION WITH THE CONTRACTOR'S OPERATIONS.
- THE CONTRACTOR SHALL FURNISH, INSTALL AND MAINTAIN ALL NECESSARY WARNING DEVICES FOR PROTECTION OF THE WORK AND SAFETY OF WORKERS AND PASSERBY INCLUDING BARRICADES, WARNING SIGNS AND LIGHTS DURING THE EVENING AND NIGHT.



**SITE UTILITY PLAN**  
 10 0 10 20  
 scale feet

**BPE**  
 BRYAN PRICE ENGINEERING  
 865 COKER FORD ROAD  
 PORTLAND, TENNESSEE 37148  
 PHONE: 615-481-3176  
 EMAIL: BRYAN.PRICE@REACAN.COM

DATE	REVISIONS

DATE: DECEMBER 2017  
 DRAWN BY: PRICE  
 CHECKED BY: PRICE  
 APPROVED BY: PRICE

**SITE UTILITY PLAN**  
 PEAY PARK SPLASH PAD  
 CITY OF GOODLETTSVILLE  
 DAVIDSON COUNTY, TENNESSEE

SHEET NO.  
**C3.1**  
 JOB NO. 0301-02

SDATES  
 SFILES

**GRADING, DRAINAGE, AND EROSION CONTROL NOTES:**

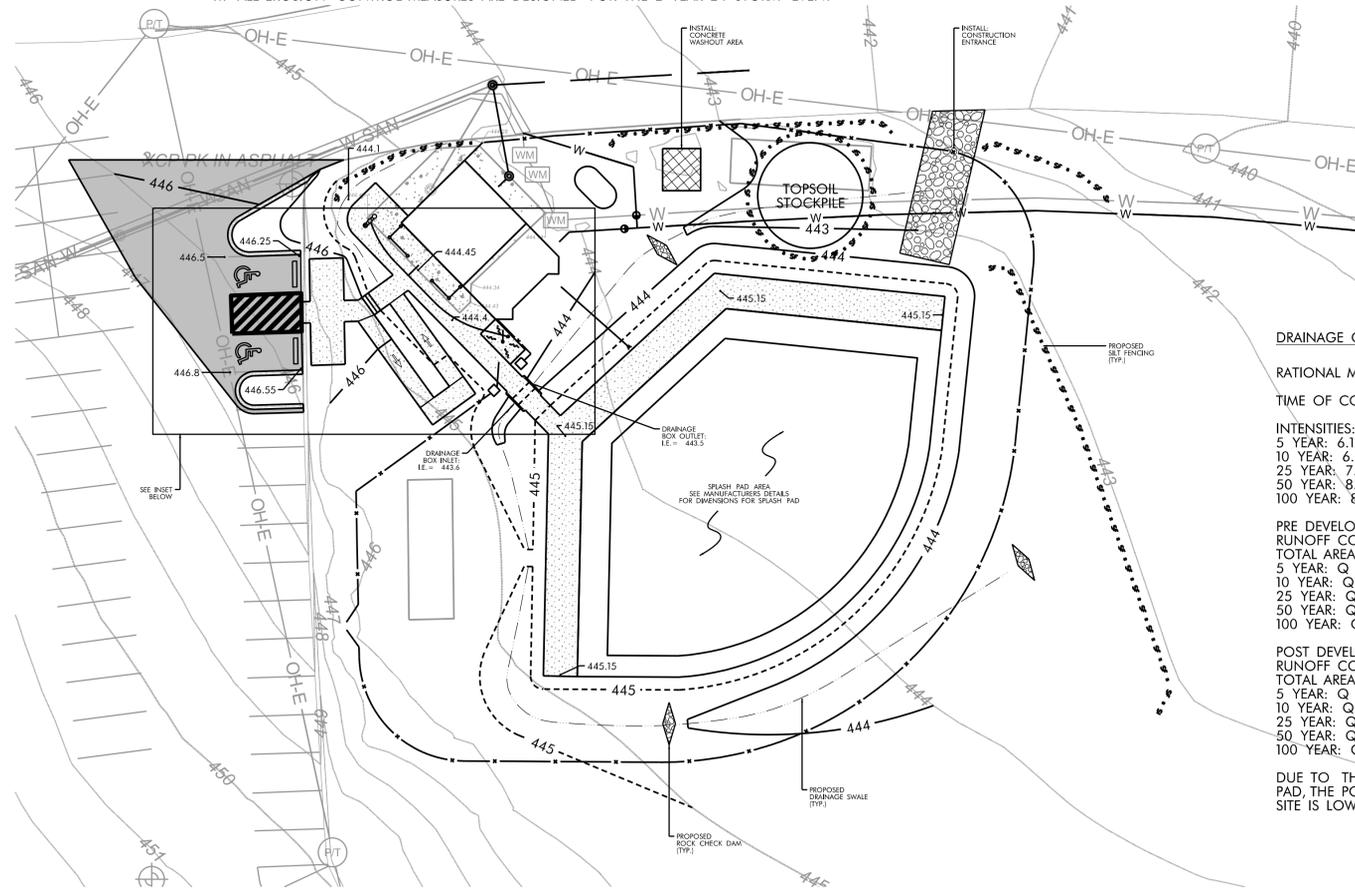
- CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES HAVING UNDERGROUND UTILITIES ONSITE OR IN THE RIGHT-OF-WAY PRIOR TO EXCAVATION. CONTRACTOR SHALL NOTIFY TN ONE CALL 72 HOURS PRIOR TO EXCAVATION.
- PROPOSED CONTOURS ARE TO FINISHED GRADE.
- NO CUT OR FILL SLOPES SHALL BE CONSTRUCTED STEEPER THAN 2H:1V UNLESS SPECIFICALLY NOTED ON PLANS.
- DITCH SIDE SLOPES EXCEEDING 4:1 SHALL BE SODDED OR HAVE EROSION CONTROL BLANKETS PLACED IMMEDIATELY AFTER FINAL GRADE HAS BEEN ESTABLISHED. ALL DITCH BOTTOMS SHALL BE SODDED OR HAVE EROSION CONTROL BLANKETS PLACED AFTER FINAL GRADING.
- THE CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE AWAY FROM ALL PROPOSED STRUCTURES. ANY SURFACE WATER ACCUMULATION IN THE BUILDING AND PAVEMENT AREAS SHALL BE DRAINED IMMEDIATELY TO AVOID SATURATION OF THE SUBGRADE SOILS.
- EXPPOSE AS SMALL AN AREA OF SOIL FOR AS SHORT A TIME AS POSSIBLE.
- KEEP DUST WITHIN ACCEPTABLE LIMITS BY SPRINKLING OR OTHER ACCEPTABLE MEANS.
- USE TEMPORARY VEGETATION AND/OR MULCH TO PROTECT BARE AREAS FROM EROSION DURING CONSTRUCTION.
- ALL EXCAVATIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST OSHA GUIDELINES AS MANDATED IN THE CURRENT FEDERAL, STATE AND LOCAL REGULATIONS. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE IN PROVIDING SAFE WORKING CONDITIONS IN CONNECTION WITH ANY EXCAVATION WORK.
- ENGINEERED FILL SHALL BE COMPACTED TO 98% OF STANDARD PROCTOR DENSITY IN BUILDING PAD AREAS (PROPOSED AND FUTURE EXPANSION) AND TO 95% IN PARKING AND DRIVE AREAS. VEGETATED AREAS SHOULD BE COMPACTED TO A MINIMUM OF 92% OF STANDARD PROCTOR DENSITY.
- ALL CUT/FILL AREAS TO HAVE A MINIMUM OF 6" DEPTH OF TOPSOIL COVER. AREAS DRESSED WITH TOPSOIL WILL RECEIVE: 12 POUNDS PER 1,000 SQUARE FEET OF 6-12-12 FERTILIZER, 5 POUNDS OR MORE OF KENTUCKY 31 FESCUE SEED PER 1,000 SQUARE FEET AND A STRAW MULCH OF 70%-80% COVERAGE. (APPROXIMATELY 125 POUNDS PER 1,000 SQUARE FEET).
- THE CONTRACTOR SHALL VERIFY POSITIVE FLOW FOR ALL STORM SEWER SYSTEMS. DISCREPANCIES SHALL BE BROUGHT TO THE ENGINEER IMMEDIATELY.
- ALL SPOT ELEVATIONS SHOWN ARE FOR FINISHED GRADE.

**SEED AND SOD NOTES**

- ALL DISTURBED AREAS INCLUDING WASTE AREAS TO BE SEEDED OR SODDED (IF NOT NOTED TO BE RIP-RAPPED OR HARD SURFACED). THE AREA NOTED ON THE PLAN TO BE SEEDED SHALL BE SPREAD WITH 4" MINIMUM OF TOPSOIL. ALL AREAS TO BE DISKED, LEVELED, AND HAND RAKED. THE TOPSOIL LAYER SHALL BRING ALL TURF AREAS TO FINISHED GRADE. SURFACED AREA SHALL BE ROLLED TO REMOVE LUMPS. FOREIGN MATERIALS SUCH AS ROCKS, LIMBS, STICKS, ETC. TO BE COLLECTED AND REMOVED DURING CULTIVATION AND RAKING OPERATIONS.
- INSTALLATION OF SEED SHALL BE BETWEEN MARCH 1 TO JUNE 15 OR SEPTEMBER 1 TO OCTOBER 15. IF SEEDING IS DONE IN BETWEEN OCTOBER 15 AND MARCH 1, A SEED BLEND WILL BE USED CONSISTING OF 20% ANNUAL RYE.
- GRASS SEED SHALL BE A TURF TYPE SEED. FERTILIZER SHALL BE 10-10-10 TYPE 1 GRADE A. USE APPROXIMATELY 8 LBS. OF GRASS SEED, 10 LBS FERTILIZER FOR EACH 1000 SQ. FT OF GROUND AREA TO BE SEEDED. COVER ALL SEEDED AREAS WITH 3 BALES OF WHEAT STRAW FOR EACH 1,000 SQ. FT. WATER DAILY FOR 15 DAYS OR AS REQUIRED BY THE WEATHER CONDITIONS. AFTER SEED HAS GERMINATED, ALL THIN SPOTS SHALL BE RE-SEEDED.
- THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR WATERING, MOWING, AND OTHER MAINTENANCE TO SEEDED AREAS UNTIL THE PROJECT IS ACCEPTED BY THE OWNER. A MINIMUM OF 90% COVERAGE OF SOUND, HEALTHY GRASS SHALL BE REQUIRED FOR ACCEPTANCE.
- EMBANKMENT/SLOPES GRATER THAN 3:1 SHALL BE EITHER SEEDED AND COVERED WITH AN EROSION CONTROL MAT (JUTE MESH ENKAMAT) OR INSTALLED WITH SOD FOR PROPER STABILIZATION. SOD TO BE STAKED WITH EITHER WOOD STAKES OR U-SHAPED METAL PINS FLUSH WITH GRADE.
- SOD SHALL BE REGIONALLY GROWN AND OF A SPECIES THAT WILL THRIVE IN THE PROJECT AREA.
- HYDROSEED ALL NEW LAWN AREAS AS SPECIFIED UNLESS PLANS CALL FOR SOD.
- MIX SEED, FERTILIZER, AND PULVERIZED MULCH WITH WATER USING EQUIPMENT SPECIFICALLY DESIGNED FOR HYDROSEED APPLICATION.
- APPLY SLURRY UNIFORMLY TO ALL AREAS BEING SEEDED. RATE OF APPLICATION AS REQUIRED TO OBTAIN SPECIFIED SEED SOWING RATE.
- THE SOD SHALL BE RELATIVELY FREE OF DISEASES AND WEEDS. STONES LARGER THAN 1" IN ANY DIMENSIONS, PLANT ROOTS AND OTHER MATERIAL DETERMINAL TO A HEALTHY STAND OF TURF SHOULD BE REMOVED. DELIVERED SOD THAT HAS BECOME DRY, MOLDY OR YELLOW FROM HEATING OR HAS IRREGULARLY SHAPED PIECES THAT ARE TORN OR HAVE UNEVEN ENDS SHALL BE REJECTED.
- THE SOD BED WILL BE LOOSENEED TO A DEPTH OF 3" TO A SMOOTH, EVEN SURFACE AND SHALL BE GRADED TO SUCH AN ELEVATION SO THE SOD, WHEN IN PLACE, SHALL BE FLUSHED WITH ANY ADJACENT SEEDED TURFED AREA, PAVEMENT, CURB OR OTHER STRUCTURES EXCEPT WHEN OTHERWISE NOTED.
- LAY SOD WITHIN 24 HOURS OF STRIPPING. DO NOT LAY DORMANT SOD OR IF GROUND IS FROZEN. LAY SOD TO FORM A SOLID MASS WITH TIGHTLY FITTED JOINTS. DO NOT OVERLAP.
- WATER SOD WITH FINE SPRAY IMMEDIATELY AFTER PLANTING. DURING FIRST WEEK, WATER DAILY OR MORE FREQUENTLY AS NECESSARY TO MAINTAIN MOIST SOIL TO DEPTH OF 4".
- PRIOR TO PLACING THE SOD, FERTILIZER 10-10-10 TYPE 1 GRADE A SHALL BE APPLIED UNIFORMLY. SOD SECTIONS SHALL BE HARROWED, RAKED OR OTHERWISE INCORPORATED INTO THE SOIL. THE SOIL BED, WHEN DRY, SHALL BE MOISTENED TO THE LOOSENEED DEPTH.
- SOD SHALL BE WETTED THOROUGHLY, ROLLED AND TAMPED SUFFICIENTLY TO INCORPORATE THE ROOTS INTO THE SOD BED AND TO ENSURE TIGHT JOINTS BETWEEN THE SECTIONS OR STRIPS.
- ALL SODDED AREAS SHALL BE MAINTAINED, WATERED, AND REPAIRED AS NECESSARY BY THE LANDSCAPE CONTRACTOR UNTIL FINAL ACCEPTANCE OF THE PROJECT.
- THE LANDSCAPE CONTRACTOR SHALL GUARANTEE ALL SEEDED OR SODDED AREAS FOR A PERIOD OF ONE YEAR FROM THE DATE OF COMPLETION. LANDSCAPE CONTRACTOR IS NOT RESPONSIBLE FOR ACTS OF NATURE THAT MAY CAUSE EROSION, NEGLIGENCE BY THE OWNER OR DAMAGED BY ANIMALS OR MACHINES.

**EROSION CONTROL NOTES:**

- ALL MEASURES INSTALLED FOR SEDIMENT CONTROL SHALL BE CHECKED AT THE BEGINNING AND END OF EACH DAY WHEN CONSTRUCTION IS OCCURRING TO ASCERTAIN THAT THE MEASURES ARE IN PLACE AND FUNCTIONING PROPERLY. ANY DAMAGE OBSERVED WILL BE REPAIRED BY THE END OF THAT WORKING DAY. MEASURES SHALL BE MAINTAINED UNTIL THE ARCHITECT/ENGINEER DETERMINES THAT THEY ARE NO LONGER NEEDED.
- ALL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CONSTRUCTED AND MAINTAINED ACCORDING TO THE STANDARDS OF THE LOCAL AUTHORITY AS REQUIRED BY STATE AND FEDERAL LAWS.
- A COPY OF THE APPROVED EPSC PLANS SHALL BE MAINTAINED AT THE PROJECT SITE AT ALL TIMES. THIS COPY SHALL BE PRESENTED TO THE LOCAL AUTHORITY'S REPRESENTATIVES UPON REQUEST.
- PRIOR TO COMMENCING LAND-DISTURBING ACTIVITIES IN ANY AREA NOT ON THE APPROVED EPSC PLAN, THE CONTRACTOR SHALL SUBMIT A SUPPLEMENTARY EPSC PLAN TO THE LOCAL AUTHORITY AND/OR STATE FOR APPROVAL.
- ALL EPSC MEASURES ARE TO BE PLACED PRIOR TO OR AS THE FIRST STEP IN CLEARING AND GRADING. THE CONTRACTOR IS RESPONSIBLE FOR ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE LOCAL AUTHORITY. DURING DEWATERING OPERATIONS WATER MUST BE PUMPED THROUGH AN APPROVED FILTERING DEVICE. THE CONTRACTOR SHALL MAINTAIN A RECORD OF ALL INSPECTIONS AND MAINTENANCE ACTIVITIES AT THE PROJECT SITE.
- ALL AREAS DISTURBED SHALL BE STABILIZED ACCORDINGLY. WHEN THE SITE IS BROUGHT TO FINAL GRADE IT MUST BE STABILIZED WITHIN 14 DAYS. AREAS OF DISTURBED SOILS MUST BE STABILIZED WITHIN 14 DAYS OF NO ACTIVITY AND WITHIN 7 DAYS IF SLOPE IS 35% OR GREATER.
- EROSION CONTROL BARRIERS SHALL BE INSTALLED DOWNHILL OF ALL TO-BE GRADED AREAS AND SHALL BE INSPECTED OR REPLACED AS NECESSARY FOR THE DURATION OF THE PROJECT TO ENSURE SEDIMENT AND DEBRIS DO NOT FILL DITCHES AND BLOCK DRAINAGE CULVERTS.
- ROADS SHALL BE KEPT CLEAR OF DEBRIS DURING CONSTRUCTION ACTIVITIES.
- INSTALL CONSTRUCTION ENTRANCE/EXIT.
- INSTALL SILT FENCE AND OTHER TEMPORARY CONTROLS AROUND SINKHOLES IF ANY ON SITE.
- ALL EROSION CONTROL MEASURES ARE DESIGNED FOR THE 2 YEAR 24 STORM EVENT



**DRAINAGE CALCULATIONS:**

RATIONAL METHOD: Q = CIA

TIME OF CONCENTRATION, Tc = 5 MIN

INTENSITIES:  
 5 YEAR: 6.12 IN/HR  
 10 YEAR: 6.76 IN/HR  
 25 YEAR: 7.55 IN/HR  
 50 YEAR: 8.14 IN/HR  
 100 YEAR: 8.70 IN/HR

PRE DEVELOPMENT  
 RUNOFF COEFFICIENT - C = 0.44  
 TOTAL AREA = 4.23  
 5 YEAR: Q = 11.4 CFS  
 10 YEAR: Q = 12.6 CFS  
 25 YEAR: Q = 14.1 CFS  
 50 YEAR: Q = 15.2 CFS  
 100 YEAR: Q = 16.2 CFS

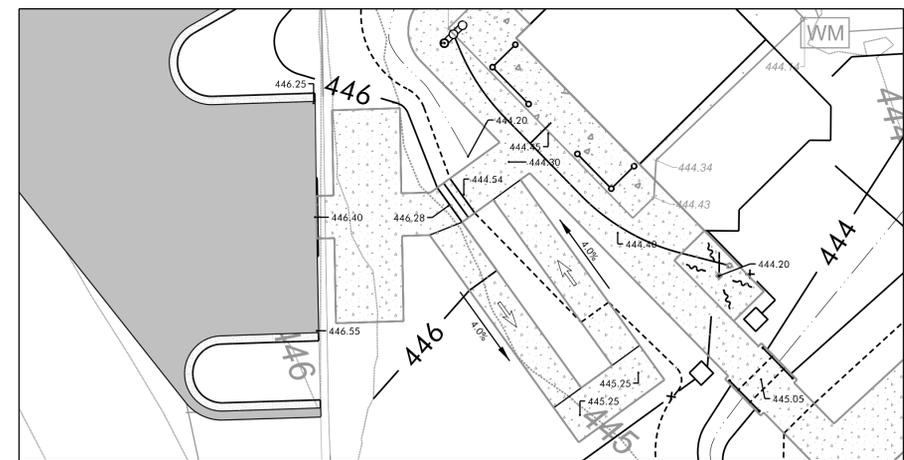
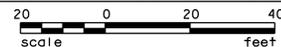
POST DEVELOPMENT  
 RUNOFF COEFFICIENT - C = 0.45  
 TOTAL AREA = 4.1  
 5 YEAR: Q = 11.3 CFS  
 10 YEAR: Q = 12.4 CFS  
 25 YEAR: Q = 13.9 CFS  
 50 YEAR: Q = 15.0 CFS  
 100 YEAR: Q = 16.0 CFS

DUE TO THE PERVIOUS SURFACE OF THE SPLASH PAD, THE POST DEVELOPMENT RUNOFF FROM THE SITE IS LOWER THAN THE PRE-EXISTING

**FFE AND ADA NOTES:**

- EXISTING FLOOR IN STRUCTURE SHALL BE REMOVED.
- CONTRACTOR IS TO MATCH EXISTING FINISHED FLOOR ELEVATION.
- CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE ALL SIDEWALKS ARE ADA COMPLIANT. NO RUNNING SLOPE OVER 5% (1:20) AND NO CROSS SLOPE OVER 2% (1:50)

**SITE GRADING & EROSION CONTROL PLAN**



ENLARGED INSET (TWICE ACTUAL SIZE)  
N.T.S.



**BPE**

BRYAN PRICE ENGINEERING  
 865 COKER FORD ROAD  
 PORTLAND, TENNESSEE 37148  
 PHONE: 615-481-3176 EMAIL: BRYAN.PRICE@REAGAN.COM

DATE	REVISIONS

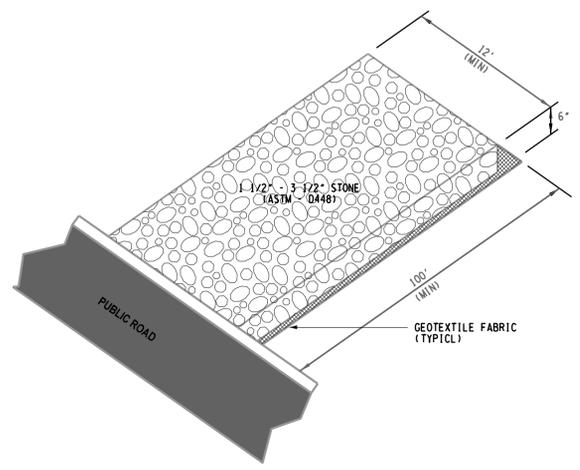
DATE:	DECEMBER 2017
DRAWN BY:	PRICE
CHECKED BY:	PRICE
APPROVED BY:	PRICE

STATE OF TENNESSEE  
 BRYAN PRICE  
 REGISTERED PROFESSIONAL ENGINEER  
 No. 11389  
 EXPIRES 12/31/2018

**SITE GRADING & EROSION CONTROL PLAN**  
 PEAY PARK SPLASH PAD  
 CITY OF GOODLETTSVILLE  
 DAVIDSON COUNTY, TENNESSEE

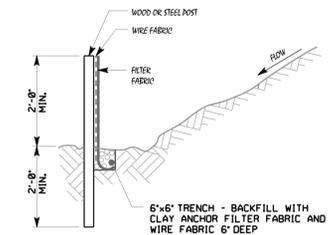
SHEET NO.  
**C4.0**

JOB NO. 0301-02



TEMPORARY CONSTRUCTION ENTRANCE DETAIL  
N.T.S.

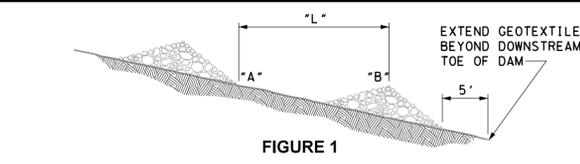
1



- NOTES:
1. FILTER FABRIC FENCE TO BE PLACED PRIOR TO START OF ROUGH GRADING.
  2. STEEL POSTS SHALL BE APPROVED BY OWNER PRIOR TO USE.
  3. WOOD POSTS SHALL BE 2" x 2" MIN. OAK OR SIMILAR HARDWOOD.
  4. POSTS SHALL BE SPACED AT 6' INTERVALS.
  5. WIRE FABRIC & FILTER FABRIC SHALL BE SECURELY BOUND TO POSTS WITH EITHER STAPLES OR WIRE TIES.
  6. FILTER FABRIC SHALL BE POLYPROPYLENE FABRIC WITH EQUIVALENT OPENING SIZE (EOS) OF NO. 100 SIEVE MIN., NO. 40 SIEVE MAX., AS DETERMINED BY CORPS OF ENGINEERS GUIDE SPEC. CW 02215.

SILT FENCE DETAIL  
N.T.S.

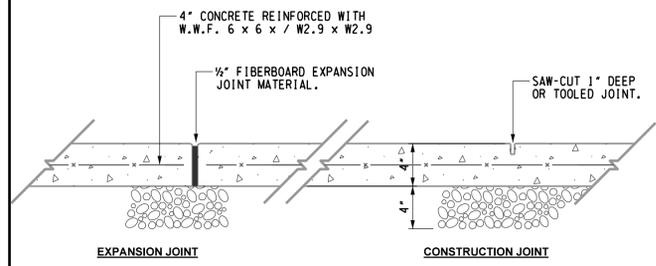
2



- NOTES:
1. SEE PLAN FOR STONE CHECK DAM OR ROCK CHECK DAM INSTALLATION
  2. L = THE DISTANCE SUCH THAT POINTS "A" AND "B" ARE OF EQUAL ELEVATION.

SECTION "A-A"  
ROCK CHECK DAM DETAIL  
N.T.S.

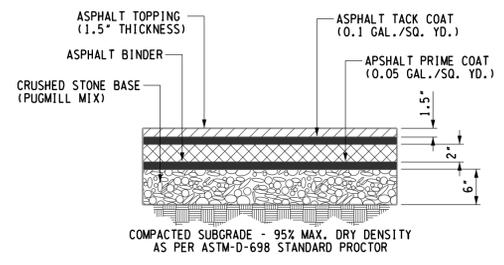
3



- NOTES:
1. EXPANSION JOINTS: 1/2" WIDE, FULL DEPTH, AT MAXIMUM OF 30' LONGITUDINAL INTERVALS, AT ALL ABUTTING STRUCTURES, DRIVEWAYS AND TANGENT POINTS OF RADIUS RETURNS.
  2. TOOLED CURB CONTROL JOINTS: 1/2" WIDE, 1" DEEP, SPACING TO APPROXIMATE SIDEWALK WIDTH.
  3. ALL CONCRETE TO COMPLY WITH ACI 318 WITH A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI @ 28 DAYS.
  4. CONCRETE TO BE AIR-ENTRAINED WITH AN AIR CONTENT OF 4-6%.
  5. JOINTS TO BE FILLED WITH BITUMINOUS EXPANSION MATERIAL.

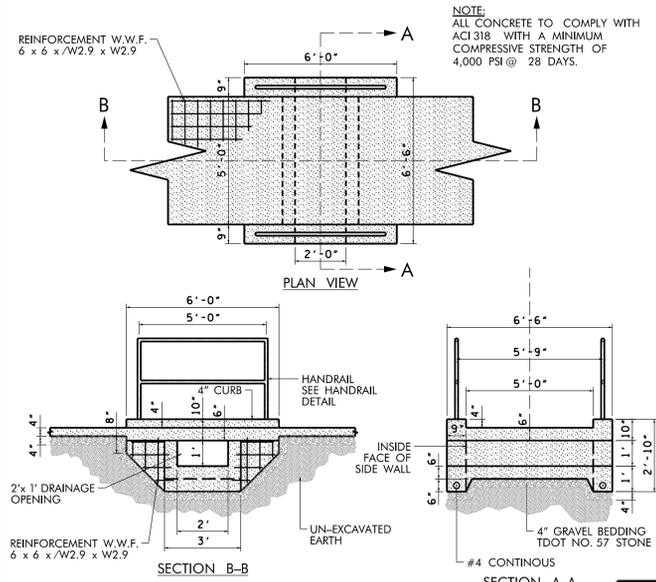
CONCRETE SIDEWALK DETAIL  
N.T.S.

4



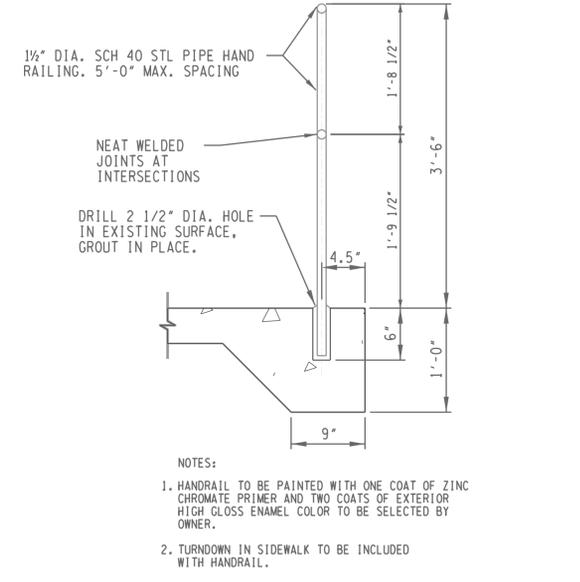
PAVEMENT DETAIL  
N.T.S.

5



SECTION B-B  
SECTION A-A  
SIDEWALK BOX CULVERT  
N.T.S.

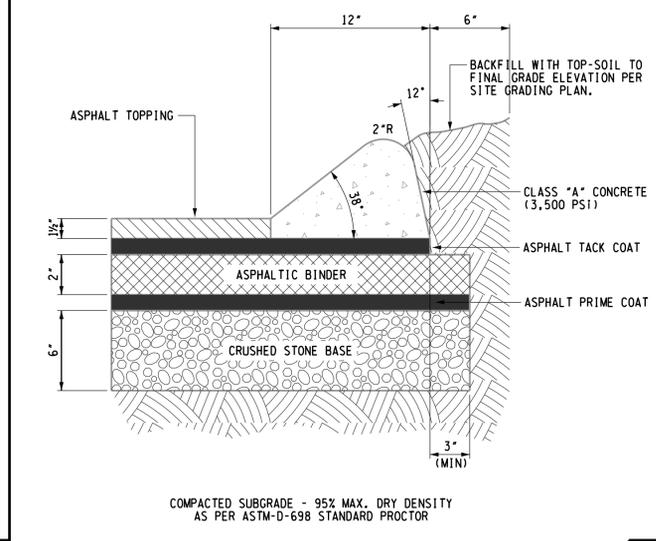
6



- NOTES:
1. HANDRAIL TO BE PAINTED WITH ONE COAT OF ZINC CHROMATE PRIMER AND TWO COATS OF EXTERIOR HIGH GLOSS ENAMEL COLOR TO BE SELECTED BY OWNER.
  2. TURNDOWN IN SIDEWALK TO BE INCLUDED WITH HANDRAIL.

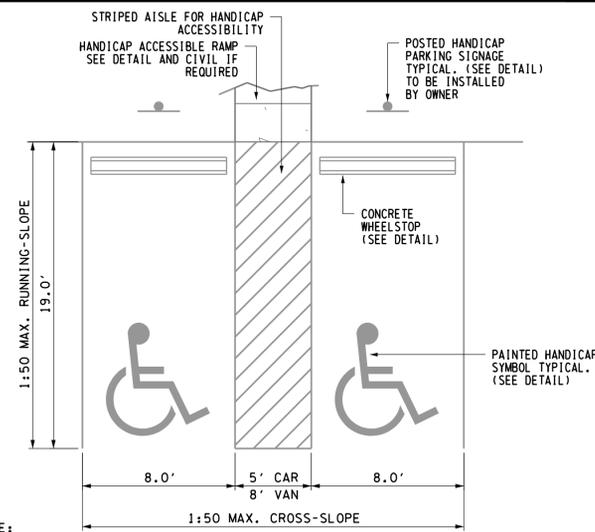
HANDRAIL DETAIL  
N.T.S.

7



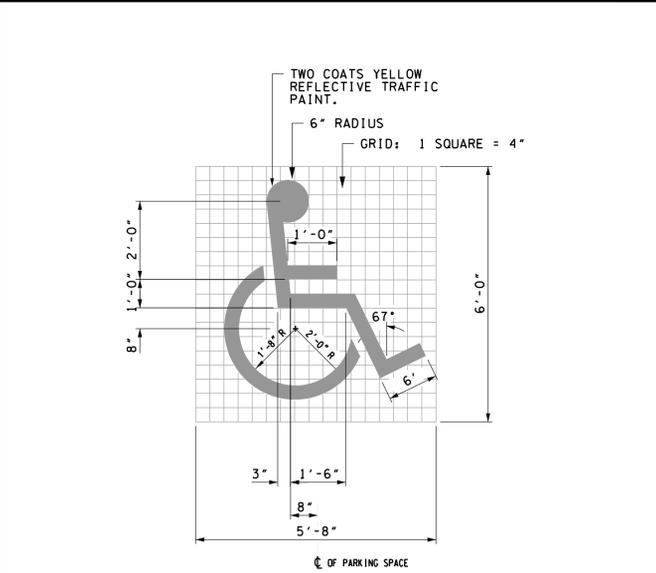
EXTRUDED CURB DETAIL  
N.T.S.

8



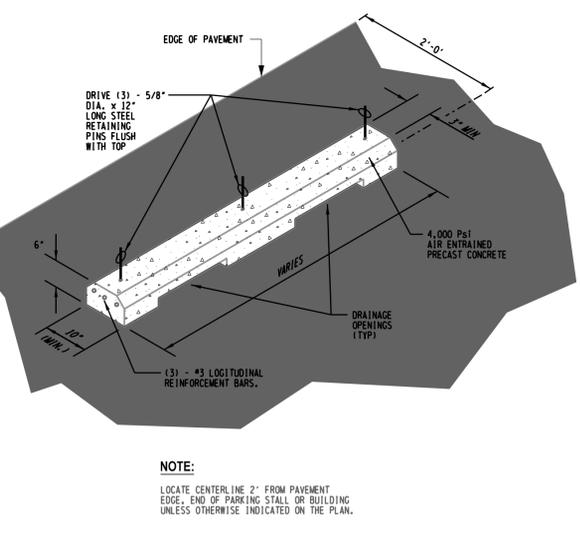
HANDICAP PARKING LAYOUT DETAIL (MULTIPLE)  
N.T.S.

9



HANDICAP SYMBOL DETAIL  
N.T.S.

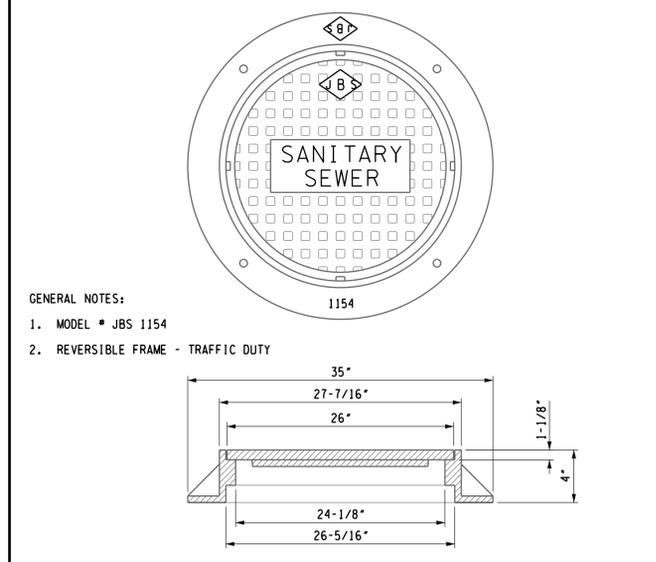
10



- NOTE:
- LOCATE CENTERLINE 2" FROM PAVEMENT EDGE, END OF PARKING STALL OR BUILDING UNLESS OTHERWISE INDICATED ON THE PLAN.

PARKING BUMPER DETAIL  
N.T.S.

11



- GENERAL NOTES:
1. MODEL # JBS 1154
  2. REVERSIBLE FRAME - TRAFFIC DUTY

MANHOLE COVER DETAIL  
N.T.S.

12

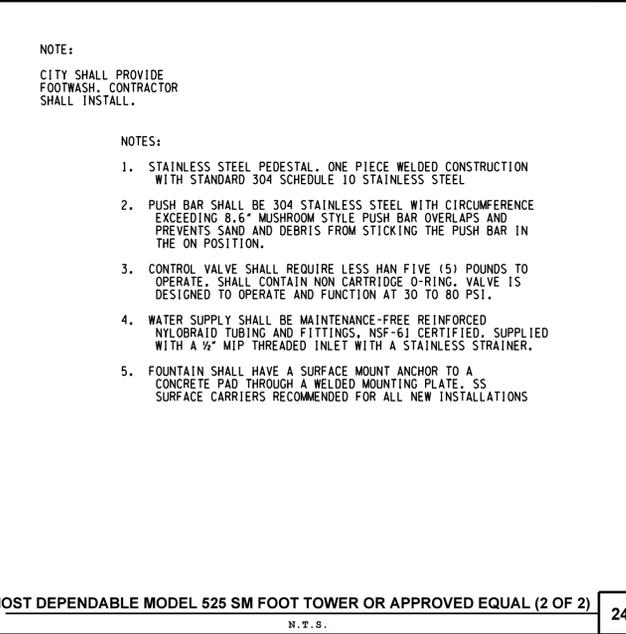
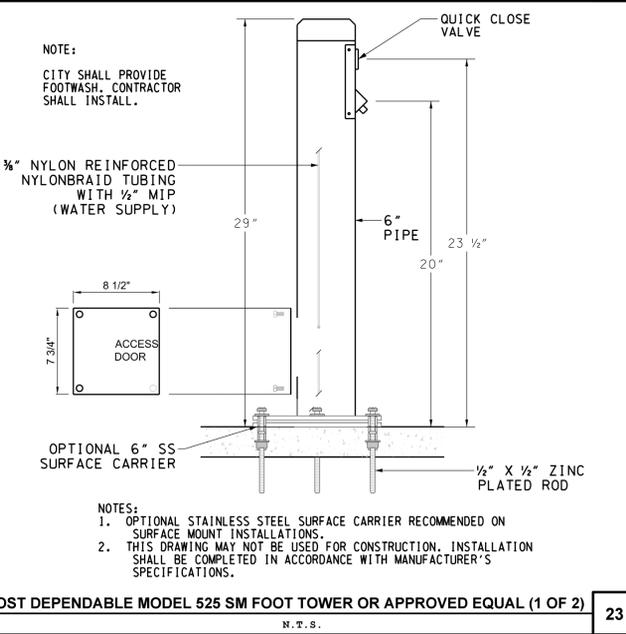
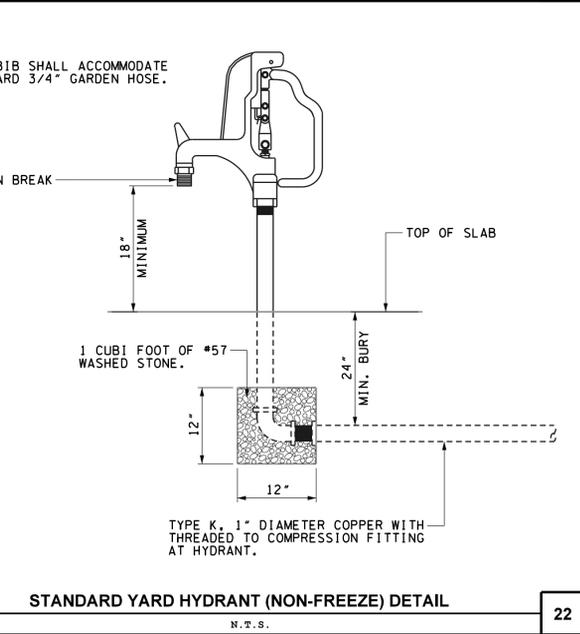
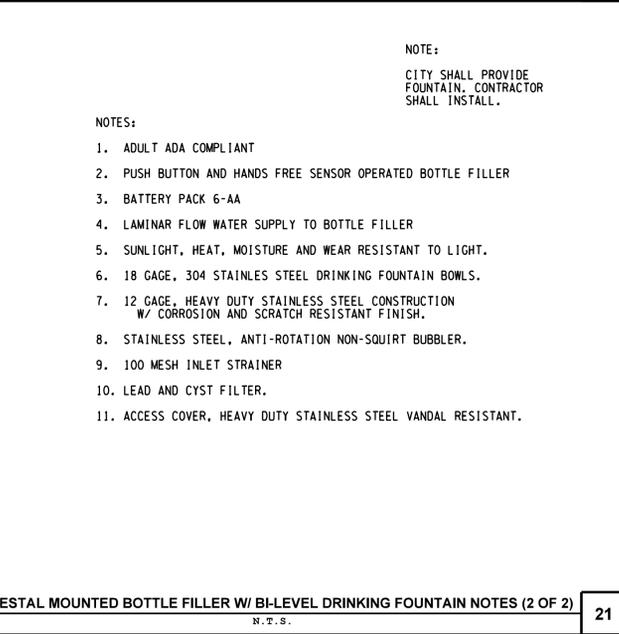
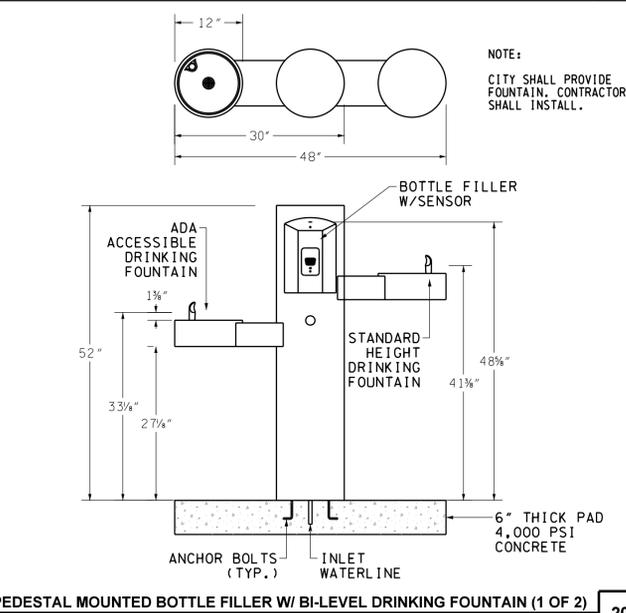
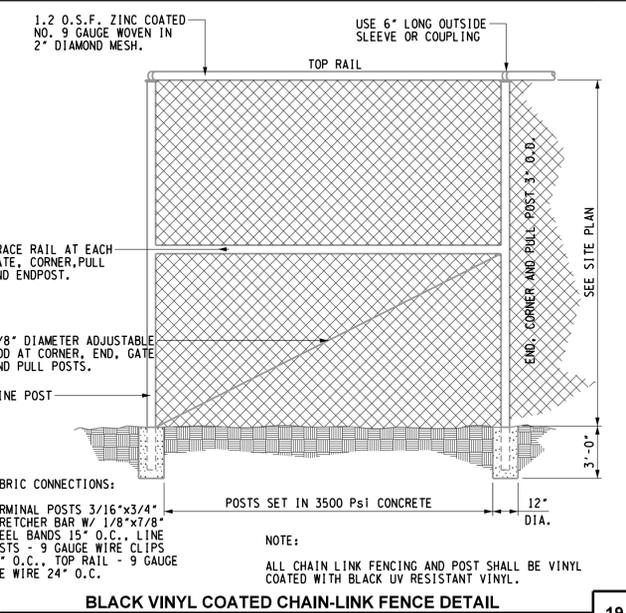
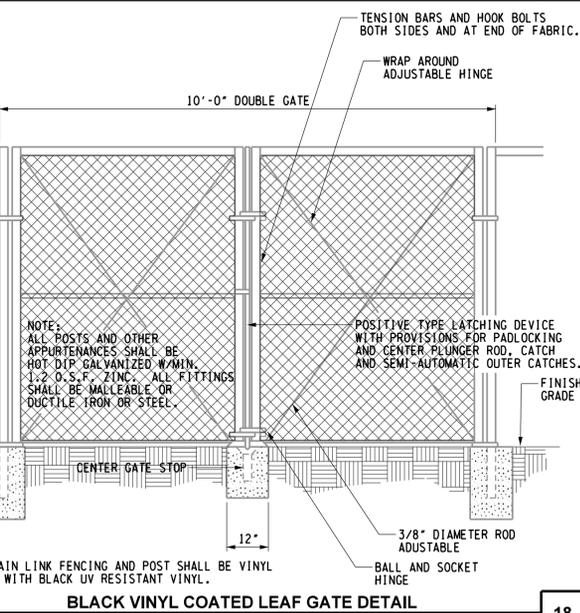
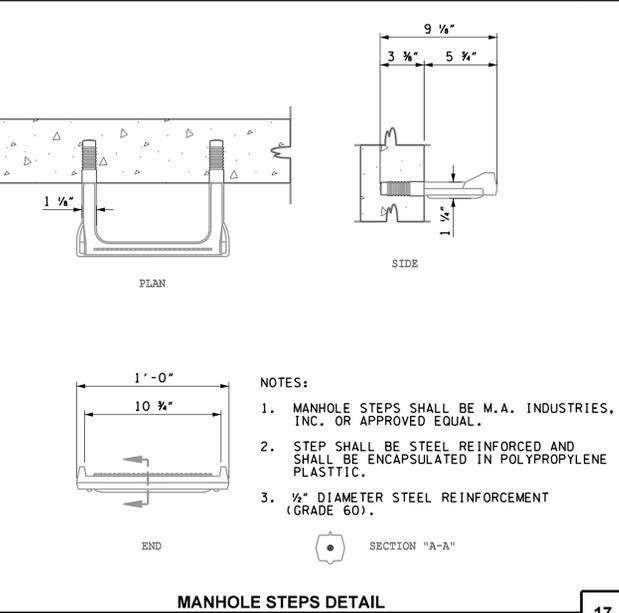
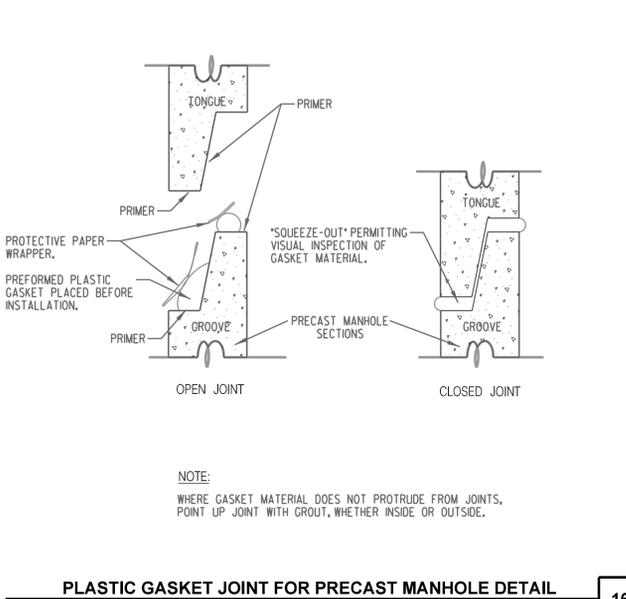
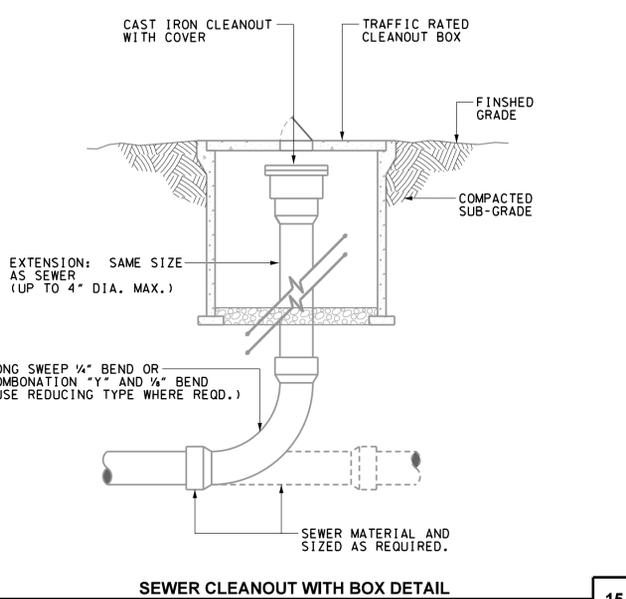
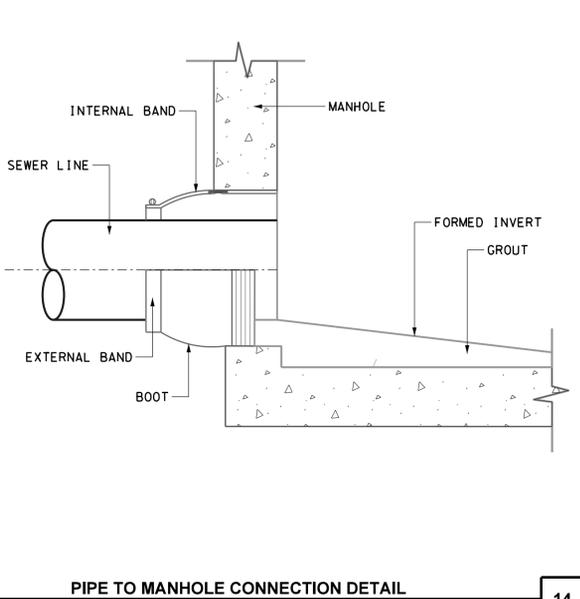
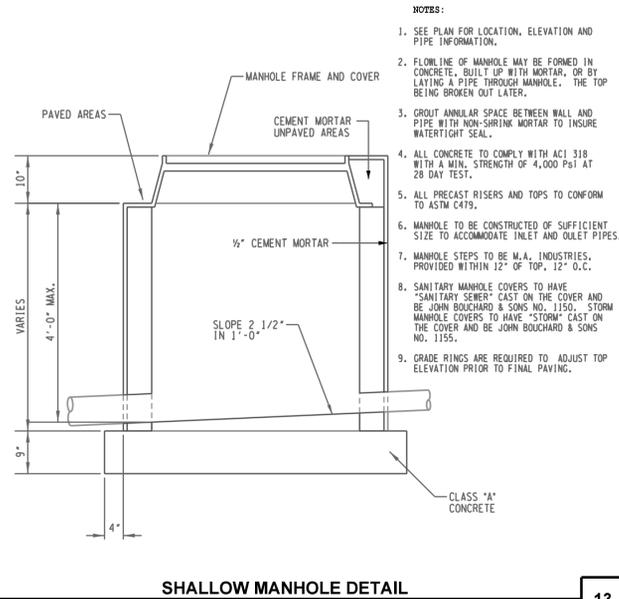
**BPE**  
BRYAN PRICE ENGINEERING  
865 COKER FORD ROAD  
PORTLAND, TENNESSEE 37148  
PHONE: 615-481-3176  
EMAIL: BRYAN.PRICE@REAGAN.COM

DATE	REVISIONS

DATE: DECEMBER 2017  
DRAWN BY: PRICE  
CHECKED BY: PRICE  
APPROVED BY: PRICE

CIVIL SITE DETAILS  
PEAY PARK SPLASH PAD  
CITY OF GOODLETTSVILLE  
DAVIDSON COUNTY, TENNESSEE

SHEET NO.  
C5.0  
JOB NO. 0301-02



**BPE**  
BRYAN PRICE ENGINEERING  
865 COKER FORD ROAD  
PORTLAND, TENNESSEE 37148  
PHONE: 615-481-3176  
EMAIL: BRYAN.PRICE@REACAN.COM

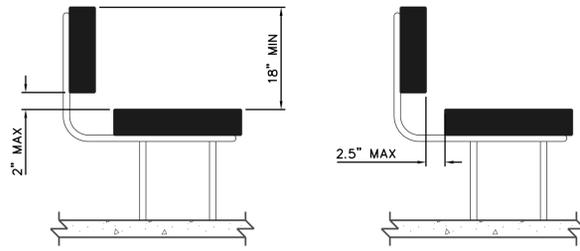
DATE	REVISIONS

DATE: DECEMBER 2017  
DRAWN BY: PRICE  
CHECKED BY: PRICE  
APPROVED BY: PRICE

CIVIL SITE DETAILS  
PEAY PARK SPLASH PAD  
CITY OF GOODLETTSVILLE  
DAVIDSON COUNTY, TENNESSEE

SHEET NO. C5.1

JOB NO. 0301-02

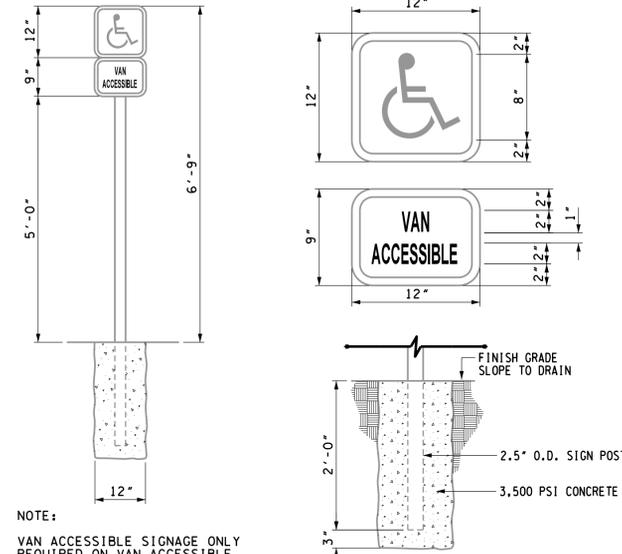


NOTES:

1. BENCHES SHALL HAVE SEATS THAT ARE 42 INCHES LONG MINIMUM AND 20 INCHES DEEP MINIMUM AND 24 INCHES DEEP MAXIMUM
2. BACK SUPPORT SHALL BE 42 INCHES LONG MINIMUM.
3. TOP OF BENCH SEAT SURFACE SHALL BE 17 INCHES MINIMUM AND 19 INCHES MAXIMUM ABOVE THE FINISHED FLOOR OR GROUND.
4. BENCHES SHALL HAVE MINIMUM SEPERATION OF 36 INCHES.

**HANDICAP BENCH SECTION DETAIL**  
N.T.S.

15



NOTE:

VAN ACCESSIBLE SIGNAGE ONLY  
REQUIRED ON VAN ACCESSIBLE  
PARKING SPACES.

**HANDICAP SIGN DETAIL**  
N.T.S.

10



**BRYAN PRICE ENGINEERING**  
865 COKER FORD ROAD  
PORTLAND, TENNESSEE 37148  
PHONE: 615-481-3176 EMAIL: BRYAN.PRICE@REACAN.COM

REVISIONS	DATE

DATE:	DECEMBER 2017
DRAWN BY:	PRICE
CHECKED BY:	PRICE
APPROVED BY:	PRICE

CIVIL SITE DETAILS  
PEAY PARK SPLASH PAD  
CITY OF GOODLETTSVILLE  
DAVIDSON COUNTY, TENNESSEE

SHEET NO.  
**C5.2**