GENERAL NOTES

1. ALL ELEVATIONS SHOWN ARE NAVD88 DATUM.

2. THE CONTRACTOR SHALL NOT START WORK ON THE PROJECT UNTIL THE PROJECT INSPECTOR IS ASSIGNED AND IS PRESENT ON THE SITE. ANY WORK DONE WITHOUT INSPECTION WILL BE REQUIRED TO BE UNCOVERED FOR INSPECTION AT THE CONTRACTOR'S EXPENSE.

3. ALL CONSTRUCTION WORK AND MATERIAL IN THIS PROJECT SHALL COMPLY WITH CITY OF WICHITA STANDARD SPECIFICATIONS FOR THE CONSTRUCTION OF CITY PROJECTS UNLESS OTHERWISE NOTED IN THE PLANS OR SPECIAL PROVISIONS.

4. UNDERGROUND UTILITY SERVICE LINES AND OVERHEAD UTILITY POLE LINES ARE TO BE ADJUSTED AS NECESSARY BY OTHERS PRIOR TO CONSTRUCTION UNLESS THE PLANS SPECIFICALLY CALL FOR THEIR ADJUSTMENT BY THE CONTRACTOR. EXISTING UTILITIES AND THEIR LOCATION, AS SHOWN ON THE PLANS, REPRESENT THE BEST INFORMATION OBTAINABLE FOR DESIGN. LOCATION INFORMATION HAS BEEN OBTAINED FROM THE VARIOUS UTILITY COMPANIES AND IS EITHER FROM COMPANY RECORD DRAWINGS OR COMPANY PROVIDED FIELD LOCATIONS. THE CONTRACTOR WILL BE REQUIRED TO WORK AROUND EXISTING UTILITIES WITHIN THE RIGHT-OF-WAY WHICH DO NOT CONFLICT WITH PROPOSED CONSTRUCTION.

5. TREES AND SHRUBS IN PUBLIC RIGHT-OF-WAY WHICH ARE IN DIRECT CONFLICT WITH PROPOSED NEW CONSTRUCTION SHALL BE REMOVED BY THE CONTRACTOR WITH THE ENGINEER'S APPROVAL. TREES AND SHRUBS WHICH ARE NOT IN DIRECT CONFLICT WITH PROPOSED NEW CONSTRUCTION SHALL BE SAVED AND PROTECTED FROM DAMAGE.

6. RUBBLE FROM THE REMOVAL OF MISCELLANEOUS STRUCTURES AND EXCESS EXCAVATION WHICH IS TO BE WASTED SHALL BE DISPOSED OF ON SITES TO BE PROVIDED BY THE CONTRACTOR. THESE SITES SHALL BE APPROVED BY THE ENGINEER AS TO SUITABILITY, APPEARANCE AND SITE LOCATION. LOCATIONS, IN THE OPINION OF THE ENGINEER, THAT WILL LEAVE AN UNSIGHTLY APPEARANCE WILL NOT BE APPROVED. ALL DISPOSAL SITES MUST BE APPROVED BY THE KANSAS DEPARTMENT OF HEALTH AND ENVIRONMENT. MATERIAL EITHER STOCKPILED OR DISPOSED OF IN A FLOOD PLAIN WILL REQUIRE A KANSAS STATE BOARD OF AGRICULTURE PERMIT. ANY MATERIAL DUMPED IN WATERS OF THE UNITED STATES OR WETLANDS IS SUBJECT TO U.S. CORPS OF ENGINEERS PERMITTING REGULATIONS. ANY MATERIAL BURIED OR STOCKPILED BEYOND APPROVED CONSTRUCTION LIMITS WILL REQUIRE ADDITIONAL ARCHAEOLOGICAL INVESTIGATIONS UNLESS BURIED IN A PREVIOUSLY APPROVED BORROW LOCATION.

7. EACH BIDDER SHALL VISIT THE SITE OF THE PROJECT BEFORE SUBMITTING THE PROPOSAL FOR THIS WORK SO THAT HE WILL BE FULLY INFORMED OF THE EXISTING FIELD CONDITIONS AND THE OBSTACLES WHICH MIGHT BE ENCOUNTERED. UPON AWARD OF THE CONTRACT THE CONTRACTOR WILL NOT BE GRANTED ANY ADDITIONAL COMPENSATION WITH REGARDS TO TIME AND MONEY FOR CONDITIONS THAT MAY HAVE BEEN EVALUATED DURING ANY INSPECTION OF THE SITE.

8. FIELD LOCATE ALL EXISTING UTILITIES PRIOR TO BEGINNING ANY EXCAVATION WORK. CONTACT THE KANSAS-ONE-CALL SYSTEM AT 811 OR 687-2470 AT LEAST 72 HOURS IN ADVANCE TO REQUEST FIELD LOCATES. FOR UTILITIES THAT ARE NOT MEMBERS OF THE KANSAS-ONE-CALL SYSTEM, CONTACT THOSE COMPANIES DIRECTLY. THE CONTRACTOR MUST NOTIFY THE FOLLOWING IN CASE OF AN EMERGENCY:

EMERGENCY DISPATCH	911
AT&T	800-246-8464
CITY OF WICHITA WATER & SEWER	316-219-8921
CITY OF WICHITA STORMWATER	316-268-4090
CITY OF WICHITA TRAFFIC	316-268-4034
BLACK HILLS ENERGY	800-694-8989
COX COMMUNICATIONS	888-249-3530
KANSAS GAS SERVICE	888-482-4950
EVERGY	800-544-4857

9. THE LUMP SUM BID ITEM "SITE CLEARING" SHALL INCLUDE, BUT NOT BE LIMITED TO REMOVAL OF MINOR OBSTRUCTIONS, REMOVAL AND SALVAGE OF CONFLICTING PRIVATE IMPROVEMENTS WITHIN THE PROJECT AREA, REMOVAL OF CONSTRUCTION DEBRIS, REMOVAL OF TREES WITHIN CONSTRUCTION LIMITS, AND GENERAL CLEAN-UP.

10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING PROPERTY IRONS. THE CONTRACTOR WILL BE REQUIRED TO RE-ESTABLISH ANY PROPERTY IRONS WHICH ARE DAMAGED OR DESTROYED BY THE CONTRACTOR CONSTRUCTION OPERATIONS, OR WHICH ARE COVERED BY 12" OR MORE OF FILL MATERIAL BY THIS PROJECT. SUCH IRONS SHALL BE RE-ESTABLISHED BY A LICENSED LAND SURVEYOR IN ACCORDANCE WITH STATE LAWS AND AT NO ADDITIONAL COST TO THE CITY.

11. THE CONTRACTOR SHALL INSTALL AND/OR MAINTAIN EROSION CONTROL METHODS AS SPECIFIED ON THE EROSION CONTROL PLAN CONTAINED HEREIN. INSTALLATION OF THESE BMP'S DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF ABATING SOIL EROSION.

12. THE CONTRACTOR SHALL GIVE ALL PROPERTY OWNERS AND/OR TENANTS OF DEVELOPED PROPERTY ABUTTING THE CONSTRUCTION OF THIS PROJECT A MINIMUM OF 10 DAYS ADVANCE NOTICE PRIOR TO START OF CONSTRUCTION IN THE VICINITY OF THE AFFECTED PROPERTY.

13. CONTRACTOR SHALL SUPPLY, INSTALL, AND MAINTAIN CONSTRUCTION TRAFFIC CONTROL AS NECESSARY TO PROTECT THE TRAVELING PUBLIC. ALL TRAFFIC CONTROL DEVICES, AND THE INSTALLATION AND USE THEREOF, SHALL CONFORM TO THE REQUIREMENTS OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION. ALL DEVICES SHALL BE REFLECTORIZED. CONSTRUCTION TRAFFIC CONTROL SHALL BE SUBSIDIARY TO OTHER BID ITEMS OF WORK.

14. WATER FOR EARTHWORK SHALL BE CONSIDERED SUBSIDIARY TO "UNCLASSIFIED EXCAVATION".

15. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL RE-ESTABLISH CONTROL POINTS AND BENCH MARKS AND VERIFY THEIR ACCURACY.

SURVEY PREPARED OCTOBER 2019
BY PEC FIELD SERVICES.

16. THE CONTRACTOR SHALL EXERCISE CAUTION WHILE WORKING IN THE VICINITY OF EXISTING IRRIGATION AND LANDSCAPING ITEMS. ANY REMOVAL, RELOCATION AND/OR REPLACEMENT OF LANDSCAPING ITEMS, SPRINKLER HEADS, IRRIGATION SYSTEMS OR OTHER PRIVATE IMPROVEMENTS THAT ARE IN DIRECT CONFLICT WITH CONSTRUCTION SHALL BE COORDINATED WITH THE ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE PROPERTY OWNER OF ANY SUCH WORK. AND FOR REPAIRING ANY DAMAGE TO THE EXISTING PRIVATE IMPROVEMENTS RESULTING FROM CONSTRUCTION OF THE PROJECT. THE MATERIAL COST, LABOR COST AND ALL INCIDENTALS NECESSARY TO THE COMPLETE THIS WORK SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR "SITE CLEARING".

EARTHWORK SUMMARY (C.Y.) *		
	Unclassified Excavation	Fill **
SWD NO. 358	*16,374*	*16,728*
TOTALS	*16,374*	*16,728*

* EARTHWORK SUMMARY IS PROVIDED FOR INFORMATION ONLY. QUANTITIES ARE APPROXIMATE AND ARE NOT GUARANTEED. EARTHWORK CALCULATIONS FROM EXISTING GROUND TO FINISHED GRADE. DEDUCTIONS HAVE BEEN MADE FOR PAVEMENT AND ROCK BASE. NO DEDUCTIONS HAVE BEEN MADE FOR UTILITIES.

** NO SHRINKAGE FACTOR HAS BEEN APPLIED. ESTIMATED DEVELOPER FURNISHED BORROW = (16,728/0.85) – (16,374) = 3,306 C.Y. (ASSUMES 15% SHRINKAGE).

ALL FILL MATERIAL SHALL BE COMPLETED TO TYPE B (MR-90) REQUIREMENTS OUTSIDE OF RIGHT OF WAYS, BLADED SMOOTH AND SLOPED TO DRAIN. REFERENCE PAVING PLANS FOR COMPACTION REQUIREMENTS IN PAVED RIGHT OF WAY AREAS.

CADD FILES FOR GRADING WILL BE MADE AVAILABLE UPON REQUEST.

THE CONTRACTOR SHALL SATISFY THEMSELVES WITH THE EARTHWORK QUANTITIES AND NO CHANGE ORDER FOR EARTHWORK WILL BE APPROVED.

THE TOP 6" OF ALL AREAS TO BE SEEDED SHALL RECEIVE TOPSOIL MATERIAL SUITABLE FOR GROWTH OF VEGETATION. OVEREXCAVATE 6" THRU AREAS OF CUT FOR PLACEMENT OF TOPSOIL. NO ADDITIONAL PAYMENT SHALL BE MADE FOR DOUBLE-HANDLING OR STOCKPILING.

SEEDING NOTES

THE CONTRACTOR SHALL APPLY TEMPORARY SEED AND MULCH TO ALL UNPAVED AREAS DISTURBED BY HIS CONSTRUCTION OPERATIONS WITHIN 14 DAYS AFTER SUCH OPERATIONS CEASE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS. SEED SHALL BE ANNUAL RYE APPLIED AT THE RATE OF 4 LBS. PER 1,000 SQUARE FEET. MULCH SHALL BE PRAIRIE HAY APPLIED AT THE RATE OF 90 LBS. PER 1,000 SQ. FT. THIS WORK SHALL BE PAID FOR AT THE CONTRACT LUMP SUM PRICE BID FOR "SEEDING, TEMPORARY".

IN THE PROPER SEASON, THE CONTRACTOR SHALL APPLY PERMANENT SEED AND MULCH TO ALL UNPAVED AREAS DISTURBED BY CONSTRUCTION WITHIN STREET RIGHT OF WAYS AND IN THE POND RESERVE AREA. LOTS SHALL RECEIVE TEMPORARY SEED ONLY. SEED SHALL BE PREMIUM BEND FESCUE WELL SUITED FOR SOUTH CENTRAL KANSAS AT THE RATE OF 8 LBS. PER 1000 SQ. FT. FERTILIZER SHALL BE NITROGEN APPLIED AT THE RATE OF 1 LBS. PER 1000 SQ. FT.

ALL MULCH SHALL BE PRAIRIE HAY APPLIED AT 90 LBS. PER 1000 SQ. FT.

PERMANENT SEEDING, FERTILIZING, AND MULCHING SHALL BE PAID FOR AS THE LUMP SUM BID FOR "SEEDING, PERMANENT".

AREAS REQUIRING PERMANENT SEED SHALL BE INITIALLY PLANTED WITH TEMPORARY SEED UNLESS DIRECTED OTHERWISE BY THE ENGINEER, OR UNLESS COMPLETION OF THOSE AREAS COINCIDES WITH THE PROPER SEASON FOR APPLYING PERMANENT SEED. SEEDING, (TEMPORARY) INCLUDES THE AREAS WHICH ULTIMATELY RECEIVE PERMANENT SEED; THIS QUANTITY SHALL BE UNDERRUN ACCORDINGLY IF TEMPORARY SEED IS OMITTED FOR THOSE AREAS.

BENCH MARK LIST

BM #10 – BRASS DISK ON TOP OF CURB, AT PT ON NORTH SIDE OF FONTANA, AT THE NORTHWEST CURB RETURN AT CHAMBERS.
ELEV.=1363.47 (NAVD88)

BM #11 – "T" POST ±20' NORTH AND ±5' WEST OF THE SOUTHWEST CORNER OF LOT 22, BLOCK 4, FONTANA 4TH ADDITION.
ELEV.=1362.72 (NAVD88)

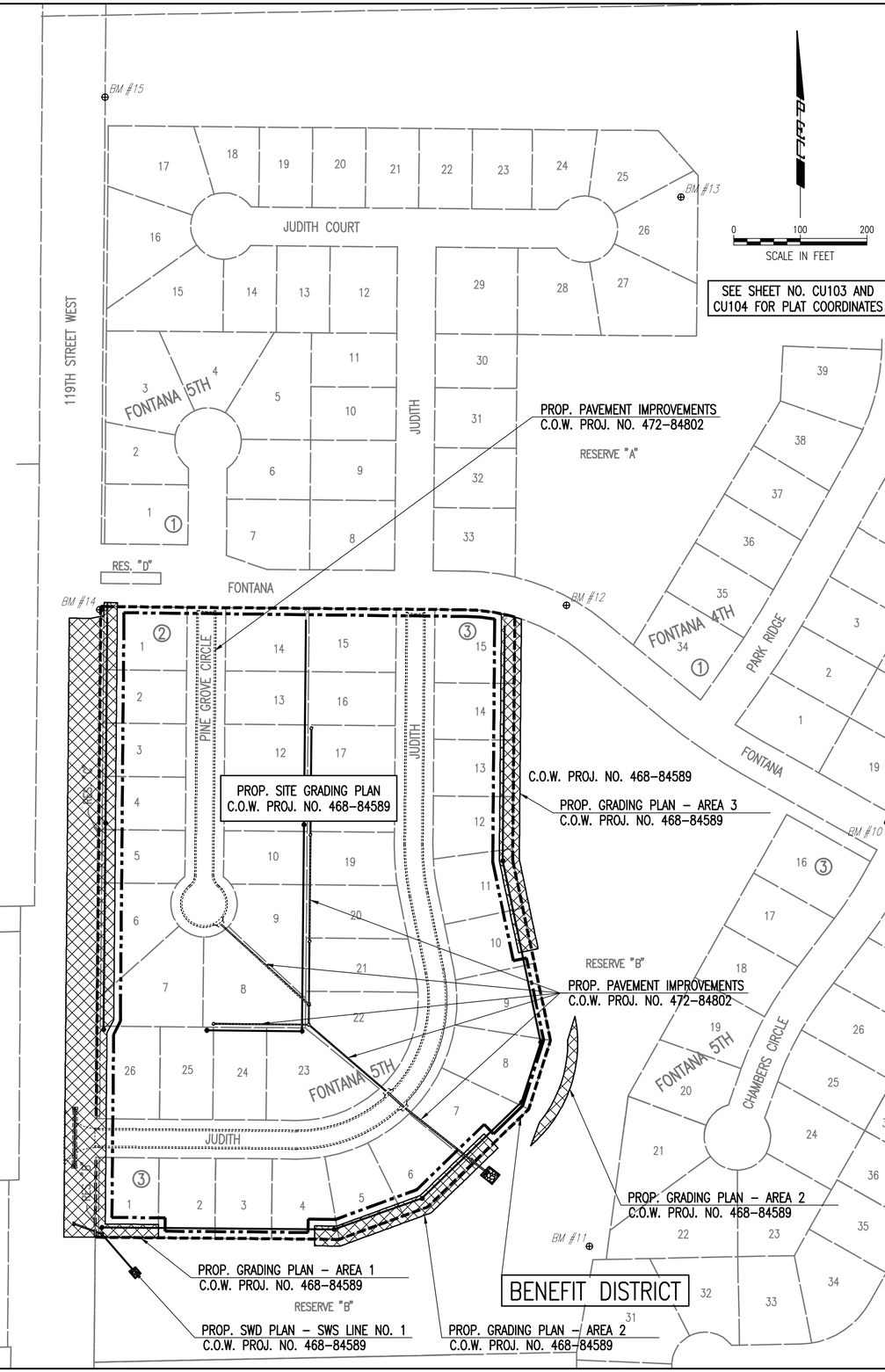
BM #12 – CHISELED "□" ON TOP OF CURB, AT THE SOUTHWEST CORNER OF THE CURB INLET ON THE NORTH SIDE OF FONTANA, 600"± WEST OF CHAMBERS.
ELEV.=1360.36 (NAVD88)

BM #13 – "T" POST ±40' SOUTH AND ±45' EAST OF THE NORTHEAST CORNER OF LOT 26, BLOCK 1, FONTANA 4TH ADDITION.
ELEV.=1357.81 (NAVD88)

BM #14 – "T" POST 2' SOUTH OF POWER POLE, 3RD SINGLE POLE SOUTH OF THE WEST 1/4 COR., SEC. 31 NEAR THE NORTHWEST CORNER OF LOT 1, BLOCK 3, FONTANA 4TH ADDITION
ELEV.=1358.54 (NAVD88)

BM #15 – "T" POST 2' SOUTH OF THE FIRST POWER POLE SOUTH OF THE EAST-WEST "H" STRUCTURE LINE, EAST SIDE OF 119TH ±120' SOUTH OF THE W 1/4 COR., SEC 31.
ELEV.=1357.32 (NAVD88)

BMK-17 – T-POST SET BELOW GRADE, NORTHEAST OF 4TH POWER POLE NORTH OF W 29TH ST. N ALONG THE EAST SIDE OF N 119TH ST W. ±10' NORTHEAST OF POWER POLE. ±45' EAST OF THE EAST EDGE OF PAVEMENT.
ELEV.= 1360.04 (NAVD88)



PEC
PROFFESSIONAL ENGINEERING CONSULTANTS
303 SOUTH TOPEKA
WICHITA, KS 67202
316-262-2691 www.pec1.com

CITY OF WICHITA

JOSHUA GOLKA LICENSED 24136 02/21/2020 KANSAS PROFESSIONAL ENGINEER

STORM WATER DRAIN IMPROVEMENTS

TO SERVE

FONTANA 5TH - PHASE 2

GARY JANZEN, P.E. - CITY ENGINEER
CITY OF WICHITA PROJECT NO. 468-84589
OCA NO. 751602

Issue:

JOB NO.	35-190592-001-042
DATE	FEBRUARY 2020
PM	JAG
DESIGNED BY	JAG
DRAWN BY	KTD
CHECKED BY	CSB

KEY MAP AND GENERAL NOTES

CU102

Saved 02-21-2020 1:23:44 PM by DUSTIN.BLINGSLEY
Plot Scale 1:1 02-21-2020 1:26:12 PM by KURTIS.DEKAT
U:\Wichita-Civil\2019\190592\001\Main\Drawings\190592-001-CU102