



**LANDSCAPING REQUIREMENTS, KINGDOM TEMPLE**  
 301' OF FRONTAGE FACING SMITH ST.  
 LENGTH OF FRONTAGE/2 = REQUIRED POINTS  
 REQUIRED POINTS = 151 POINTS  
 PROVIDE 6 SHADE TREES (AT 20 POINTS/TREE) = 160 POINTS  
 TOTAL POINTS PROVIDED = 160 POINTS

158' OF FRONTAGE FACING S. SARATOGA ST.  
 LENGTH OF FRONTAGE/2 = REQUIRED POINTS  
 REQUIRED POINTS = 79 POINTS  
 PROVIDE 4 SHADE TREES (AT 20 POINTS/TREE) = 80 POINTS  
 TOTAL POINTS PROVIDED = 80 POINTS

**NOTE: FINAL LANDSCAPING PLAN BY LANDSCAPER SHALL MEET CITY OF PEORIA REQUIREMENTS**

**TRIP GENERATION:**  
 TRIP GENERATION PER 1000 SF: 11.76 (AVERAGE RATE)  
 SQUARE FOOTAGE: 22548 SF  
 AVERAGE VEHICLE TRIP ENDS ON A SUNDAY: 271

**GENERAL NOTES:**

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE ILLINOIS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION. REFERENCES TO METHOD OF PAYMENT ARE NOT APPLICABLE.

ALL EXISTING UNDERGROUND UTILITIES SHOWN ON PLANS ARE APPROXIMATE. EXACT LOCATIONS AND DEPTHS SHALL BE DETERMINED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR SHALL CALL JULIE AT 811-48 HOURS PRIOR TO CONSTRUCTION.

IF FIELD TILE ARE ENCOUNTERED DURING CONSTRUCTION, THE ENGINEER IS TO BE NOTIFIED TO MAKE DETERMINATION ON WHAT TO DO.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES WITHIN THE CONSTRUCTION LIMITS. IF ANY UTILITY IS DAMAGED DURING THE COURSE OF CONSTRUCTION, THE UTILITY OWNER SHALL BE NOTIFIED IMMEDIATELY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY EXPENSES INCURRED TO REPAIR THE UTILITY.

IF A UTILITY CONFLICT ARISES WHICH WILL RESULT IN DAMAGE TO A UTILITY OR WILL CAUSE THE DESIGN TO BE REVISED, CONTACT THE ENGINEER.

TRENCH BACKFILL (FA 6) SHALL BE PLACED IN ALL TRENCHES UNDER PAVEMENT AND WITHIN 5' OF THE BACK OF CURB OR EDGE OF PAVEMENT.

FOR UTILITY CONNECTIONS, FLOWABLE FILL IS REQUIRED FOR ANY EXCAVATIONS WITHIN 2' OF PAVEMENT, CURB AND OUTER OR SIDEWALK.

TRENCH BACKFILL SHALL BE COMPACTED TO 95 PERCENT OF STANDARD PROCTOR.

DRAINAGE AND STORM STRUCTURES SHALL BE KEPT FREE OF DEBRIS AND DIRT DURING THE COURSE OF CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE CAUSED BY ANY STORM SEWER BACKUPS.

STORM SEWER STRUCTURES AND MANHOLE OFFSETS AND COORDINATES AS SHOWN ON THE PLANS ARE TO THE FOLLOWING POINTS: STRUCTURES IN CURB LINE COORDINATES TO CENTER OF STRUCTURE. ELEVATION TO THE TOP OF CURB. ALL OTHER STRUCTURES - COORDINATES ARE TO THE CENTER OF THE STRUCTURE. ELEVATIONS ARE TO THE TOP OF GRATE.

THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO ORDERING MATERIALS OR STARTING CONSTRUCTION.

PORTLAND CEMENT CONCRETE SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE ILLINOIS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION.

THE SUBGRADE SHALL BE PREPARED IN ACCORDANCE WITH SECTION 301 OF THE STANDARD SPECIFICATIONS.

ELEVATIONS SHOWN ON THE PLANS ARE FINISHED GRADES UNLESS OTHERWISE NOTED.

PROVIDE 4 MIN. TOPSOIL ON ALL DISTURBED AREAS. DISTURBED AREAS SHALL BE SEEDING WITH DOT CLASS 1 SEED MIXTURE AT A RATE OF 200 LBS/ACRE. FERTILIZER SHALL BE APPLIED AT A 1:1:1 RATIO AT 270 LBS/ACRE. MULCH SHALL BE PLACED AT 2 TONS/ACRE USING IDOT METHOD 2.

**FIRE SERVICE/DOMESTIC WATER NOTES**

ALL FITTINGS AND PIPE JOINTS WITHIN 20' OF FITTINGS SHALL BE RESTRAINED WITH SET SCREW MECHANICAL RETAINER GLANDS.

ALL WORK SHALL BE INSTALLED AND CONSTRUCTED IN ACCORDANCE WITH AMERICAN WATER WORKS SERVICE COMPANY INCORPORATED STANDARD PIPELINE SPECIFICATIONS DATED DECEMBER 1990 AND SUBSEQUENT SUPPLEMENTS.

FIRE SERVICE SHALL HAVE A MINIMUM COVER OF 48 INCHES.

ALL VALVES THAT REQUIRE OPERATION SHALL BE BY ILLINOIS AMERICAN PERSONNEL.

TRENCH WIDTH SHALL BE 14" MIN., 30" MAX. FIRE SERVICE ACCORDANCE WITH ILLINOIS AMERICAN WATER SPECIFICATIONS.

FIRE SERVICES SHALL BE CLASS 52 DUCTILE IRON PIPE WITH PUSH ON JOINTS. FITTINGS SHALL DUCTILE IRON CONFORMING TO ANWWA C155.

RESTRAINED JOINTS AND FITTINGS APPROVED BY ILLINOIS AMERICAN WATER SHALL BE USED ON ALL FITTINGS.

ALL FIRE SERVICE SHALL BE POLYETHYLENE ENCASED, IN ACCORDANCE WITH ILLINOIS AMERICAN STANDARD DETAILS.

GATE VALVES SHALL COMPLY WITH ANWWA C509.

TAPPING SADDLES AND VALVES SHALL BE INSTALLED AND TESTED PER ILLINOIS AMERICAN WATER COMPANY SPECIFICATIONS.

CONTRACTOR TO PAY TAPPING FEES. WATER COMPANY WILL PROVIDE TAP. CONTRACTOR RESPONSIBLE FOR EXCAVATION, SHORING AND ALL CONSTRUCTION FROM THE TAP.

**REQUIRED VOLUME CONTROL CALCULATIONS:**

NEW IMPERVIOUS AREA = 0.48 AC. = 21,100 S.F.

1ST INCH OF RAIN OVER NEW IMPERVIOUS AREA:  
 21,100 SF / 12 IN = 1758 CUBIC FEET

**VOLUME CONTROL PROVIDED**

VOLUME IN DRYWELLS (SS-1.2 & SS-2.1)  
 VOLUME IN DRYWELL = (PI)^2\*(DEPTH) = 2.5'^2\*(PI)\*3 = 60 CF  
 TWO DRYWELLS PROVIDED  
 TOTAL STORAGE IN DRYWELLS = 2\*60 = 120 CF

VOLUME IN CA-11 SURROUNDING DRYWELLS  
 VOLUME OF DRYWELL STRUCTURE = (PI)^2\*(PI)^2\*(DEPTH) = 3''^2\*(PI)^2\*3 = 85 CF  
 VOLUME OF ENTIRE SYSTEM = (PI)^2\*(PI)^2\*(DEPTH) = 5''^2\*(PI)^2\*3 = 236 CF  
 VOLUME OF ROCK = 206.65 = 151 CF  
 VOLUME OF ROCK FOR 2 DRYWELLS = 151 x 2 = 302 CF  
 VOLUME OF VOIDS IN CA-11 = 302 - 33 = 100 CF

**VOLUME IN PIPES:**

LENGTH OF 24" PIPE = 48'  
 LENGTH OF 12" PIPE = 20'  
 AREA OF 24" PIPE = 3.14 SF  
 AREA OF 12" PIPE = 0.79 SF  
 VOLUME OF 24" PIPE = 1530 CF  
 VOLUME OF 12" PIPE = 16 CF  
 TOTAL VOLUME = 1546 CF

TOTAL VOLUME STORED = 120 + 100 + 1546 = 1766 CF

**SITE LAYOUT & UTILITY PLAN**  
 SCALE: 1" = 20'

P.C.C. CONCRETE PAVEMENT, 6"  
 P.C.C. SIDEWALK, 4"  
 DOORWAY APPROACH PAD

CLIENT: KINGDOM TEMPLE  
 C.O.G.I.C.  
 911 WEST SMITH STREET  
 PEORIA, IL 61605  
 PH: 309 453 9363

CONTRACTOR: BALDOVIN CONSTRUCTION COMPANY  
 1003 SW WASHINGTON STREET  
 PEORIA, IL 61602  
 PH: 309 437 0201

CIVIL: [Logo] [Name]

STRUCTURAL: [Logo] [Name]

SEAL: [Blank]

PROJECT NO: RG-WP-2018-001.00  
 DRAWN BY: RWS  
 CHECKED BY: SDK  
 APPROVED BY: SDK  
 DATE: 04-03-2019  
 SHEET TITLE: SITE LAYOUT & FIRE/DOMESTIC WATER SERVICE PLAN  
 SHEET NO: C-200

PRELIMINARY - NOT FOR CONSTRUCTION