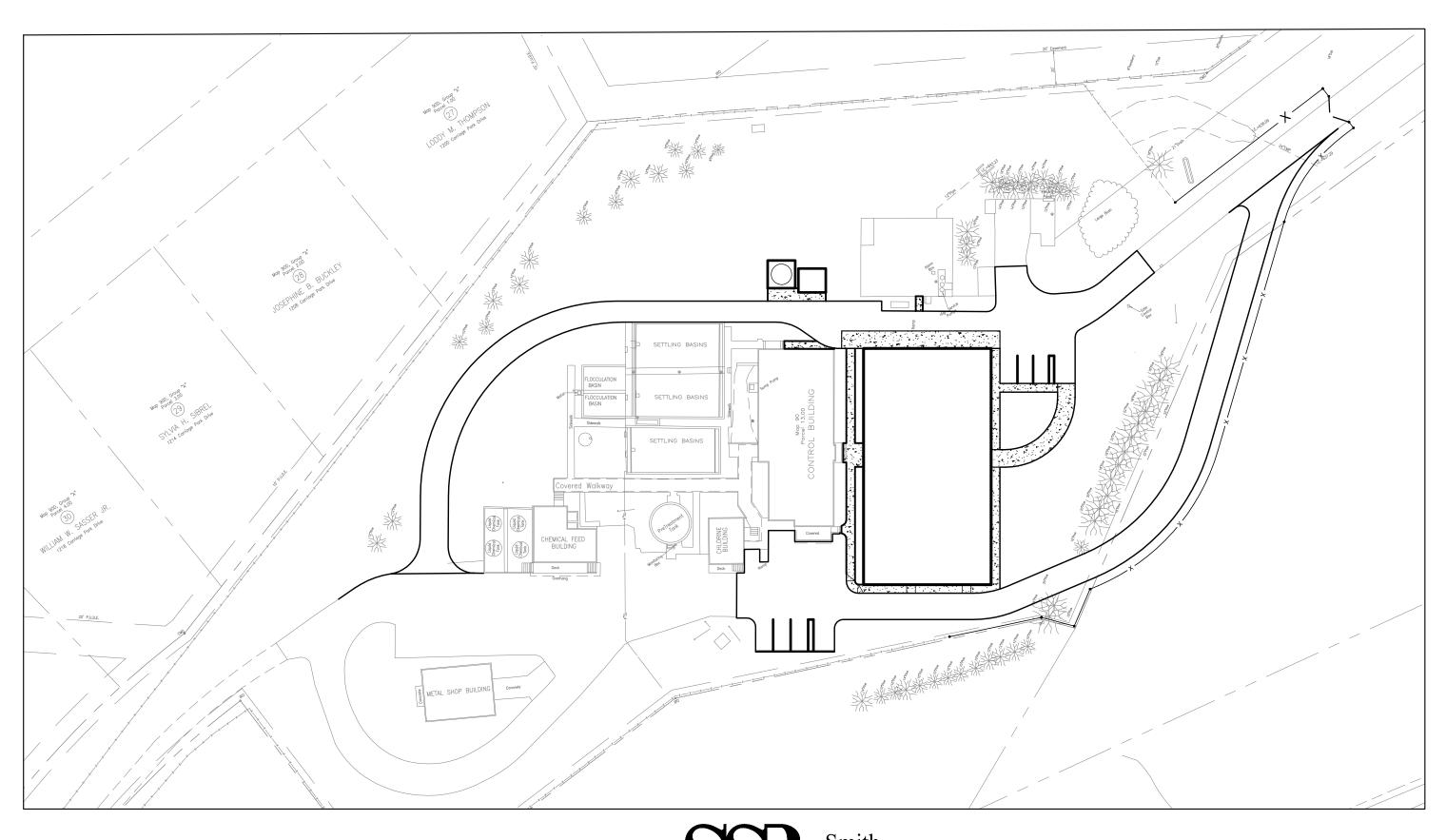
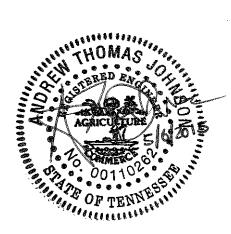
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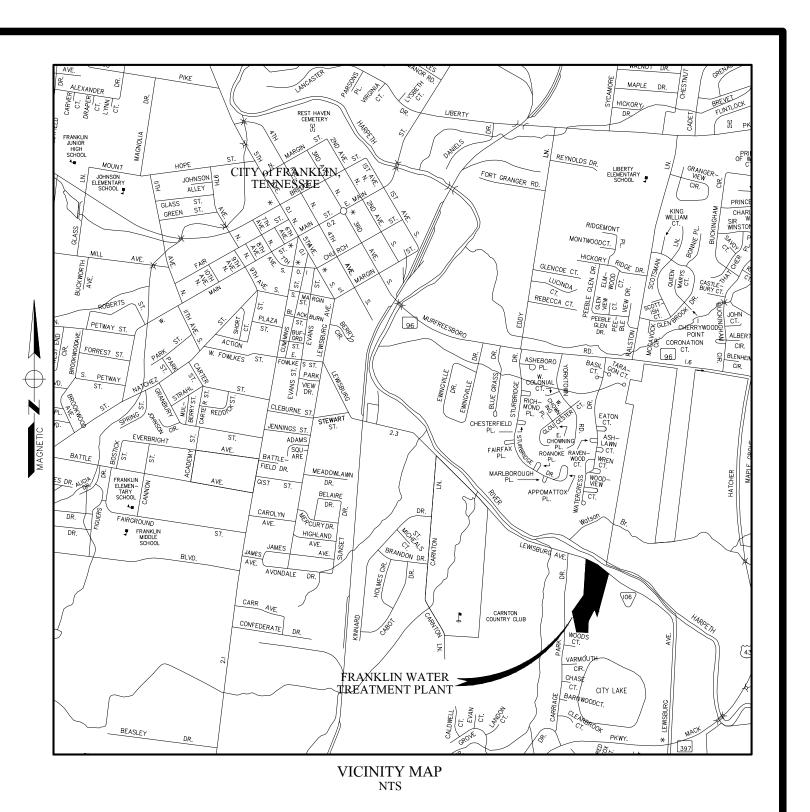
# City of Franklin Water Treatment Facility, Site Plan COF-Project NO. 5842

838 Lewisburg Pike Franklin, Tennessee May 2015









# SITE DATA

PROJECT NAME:

CITY OF FRANKLIN, TENNESSEE
WATER & SEWER DEPARTMENT
WATER TREATMENT PLANT IMPROVEMENT

PROJECT #:
SUBDIVISION:
LOT NUMBER:
ADDRESS:
ADDRESS:
CITY:
CITY OF FRANKLIN
COUNTY:

WILLIAMS ON COUNTY

CIVIL DISTRICT: 9th

EXISTING ZONING & CI (CIVIC & INSTITUTIONAL)
CHARACTER AREA OVERLAY: (CARNTON OVERLAY DISTRICT)

DESIGN STANDARD:
OTHER APPLICABLE OVERLAYS:
APPLICABLE DEVELOPMENT STANDARD:
ACREAGE OF SITE:
SQUARE FOOTAGE OF SITE:
MINIMUM REQUIRED SETBACK LINES:
YARD FRONTING ON ANY STREET:
SIDE YARD:
OCCUPANTIONAL
OCCUPANT

OWNER: CITY OF FRANKLIN, TENNESSEE

ADDRESS: 838 LEWISBURG PIKE FRANKLIN, TN 37064

REAR YARD:

PHONE NO.: (615) 550-6660

FAX NO.:
EMAIL ADDRESS:

CONTACT NAME:

APPLICANT:

ADDRESS:

DAVIDP@FRANKLIN.GOV

DAVID PARKER

SMITH SECKMAN REID, INC

2995 SIDCO DRIVE
NASHVILLE, TENNESSEE 37204

PHONE NO: (615) 383-1113
FAX NO.: (615) 386-8469
EMAIL ADDRESS: AJOHNSON@SSR-INC.COM

CONTACT NAME: ANDREW JOHNSON

BUILDING SQUARE FOOTAGE: 9,170 S.F. (PROPOSED) 4,162 S.F. (EXISTING)

MAXIMUM BUILDING HEIGHT: PROPOSED - 38'-0" (EXISTING - 22'-0")

LANDS CAPE SURFACE RATIO: 0.17

MINIMUM LANDS CAPE SURFACE RATIO: N/A

INCOMPATIBLE BUFFER REQUIRED: NO BUFFER REQUIRED

MINIMUM PARKING REQUIREMENT: N/A

MAXIMUM PARKING LIMIT: N/A

PARKING PROVIDED: 8 TOTAL, 4 EXISTING, 4 NEW RESIDENTIAL DENSITY: N/A

TREE CANOPY:
TOTAL SITE CANOPY COVERAGE:
MINIMUM REQUIRED CANOPY RETENTION
TOTAL SITE CANOPY TO REMAIN

PARKLAND:
N/A

OPEN SPACE:
TOTAL OPEN SPACE PROVIDED: 6.75 ACRES

THIS SITE PLAN HAS BEEN DESIGNED TO MEET THE CITY OF FRANKLIN STANDARDS AND THE APPROVAL OF THE PLANNING COMMISSION.

CHANGES SHALL NOT BE MADE TO THE APPROVED SITE PLAN UNLESS APPROVED BY EITHER

#### **GENERAL NOTES**

- 1. BASE INFORMATION WAS TAKEN FROM A BOUNDARY & TOPOGRAPHIC SURVEY DATED JULY 25. 2012 SMITH, SECKMAN, REID, INC. THE PROJECT DESIGN TEAM SHALL NOT BE HELD RESPONSIBLE FOR THE ACCURACY AND/OR COMPLETENESS OF THAT INFORMATION SHOWN HEREON OR ANY ERRORS OR OMISSIONS RESULTING FROM SUCH.
- 2. THE PROJECT SITE IS SHOWN ON WILLIAMSON COUNTY, TAX MAP 79 & 79-K.
- 3. THE SITE LAYOUT IS BASED ON CONTROL POINTS AS NOTED. DIGITAL INFORMATION WILL BE PROVIDED FOR LAYOUT PURPOSES UPON REQUEST AND EXECUTION OF A DISCLAIMER.
- 4. THE CONTRACTOR IS TO CHECK ALL EXISTING CONDITIONS (i.e. INVERTS, UTILITY ROUTINGS, UTILITY CROSSINGS, AND DIMENSIONS) IN THE FIELD PRIOR TO COMMENCEMENT OF UTILITY WORK. REPORT ANY DISCREPANCIES TO THE OWNER'S REPRESENTATIVE OR ENGINEER.
- 5. THE CONTRACTOR IS TO VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES. TAKE CARE TO PROTECT UTILITIES THAT ARE TO REMAIN. REPAIR ANY DAMAGE ACCORDING TO LOCAL STANDARDS AND AT THE CONTRACTOR'S EXPENSE. COORDINATE ALL CONSTRUCTION WITH THE APPROPRIATE UTILITY COMPANY.
- 6. THE CONTRACTOR SHALL CONFORM TO ALL LOCAL CODES AND RECEIVE APPROVAL WHERE NECESSARY BEFORE
- 7. EXISTING PAVEMENT OF PUBLIC ROADWAYS SHALL BE PATCHED OR REPLACED IN ACCORDANCE WITH LOCAL AGENCY STANDARDS WHEREVER UTILITY INSTALLATION OR GRADE CHANGE REQUIRES REMOVAL OF THE EXISTING PAVEMENT. COORDINATE PAVEMENT TRENCHING LOCATIONS WITH SITE CIVIL, PLUMBING AND ELECTRICAL PLANS.
- 8. PROVIDE A SMOOTH TRANSITION BETWEEN EXISTING PAVEMENT AND NEW PAVEMENT. SLIGHT FIELD ADJUSTMENT OF FINAL GRADES MAY BE NECESSARY.
- 9. DIMENSIONS ARE TO FACE OF CURB AND/OR EXTERIOR FACE OF BUILDING UNLESS OTHERWISE NOTED.
- 10. CONCRETE FOR CURBS AND SIDEWALKS SHALL BE 3500 PSI CONCRETE MINIMUM.
- 11. ANY WORK UNACCEPTABLE TO THE OWNER'S REPRESENTATIVE OR TO THE LOCAL GOVERNING AUTHORITY SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER.
- 12. HANDICAP RAMPS SHALL HAVE A MAXIMUM SLOPE OF 1:12.
- 13. THE PROPOSED ADDITIONS SHALL BE LAID OUT UTILIZING THE ARCHITECTURAL DRAWINGS, CONTROL POINTS AND DIGITAL INFORMATION PROVIDE. SEE ARCHITECTURAL PLANS FOR EXACT BUILDING DIMENSIONS
- 14. CURBS SHALL BE PARALLEL TO THE CENTERLINE OF DRIVES. THE CURB SHALL BE PLACED ONLY AFTER HAVING ALL BREAK POINTS (PC & PT OF CURVES) LOCATED AT THE FACE OF CURB OR AT A CONSISTENT OFFSET BY A REGISTERED
- 15. THE CONTRACTOR SHALL PAVE IN THE DIRECTION OF TRAFFIC
- 16. THE CONTRACTOR SHALL COLD PLANE IN THE DIRECTION OF TRAFFIC
- 17. ALL ROADWAY AND SIDEWALK CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS AND SPECIFICATIONS OF THE CITY OF FRANKLIN
- 18. ALL CONSTRUCTION MATERIALS AND INSTALLATION SHALL CONFORM TO LOCAL GOVERNING AGENCY REGULATIONS AND SPECIFICATIONS
- 19. ALL PAVEMENT MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE LOCAL GOVERNING AGENCY AND STATE

#### DEMOLITION NOTES

- 1. THE CONTRACTOR IS RESPONSIBLE FOR ALL DEMOLITION AND REMOVAL NECESSARY TO ACCOMPLISH THE PROPOSED IMPROVEMENTS SHOWN ON THESE PLANS
- 2. THE CONTRACTOR SHALL CONFORM TO LOCAL CODES. OBTAIN ALL PERMITS AND GIVE ALL NOTICES REQUIRED FOR EXECUTION OF THE WORK.
- 3. ALL MATERIALS BEING REMOVED AND NOT RELOCATED UNDER THE NEW CONSTRUCTION, INCLUDING TREES AND SHRUBS, SIGNS, UTILITY STRUCTURES, ETC. SHALL BE FIRST OFFERED TO THE OWNER'S REPRESENTATIVE AND IF NOT ACCEPTED SHALL THEN BE PROPERLY DISPOSED OF BY THE CONTRACTOR.
- 4. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL CHARTED AND UNCHARTED UTILITIES. TAKE CARE TO PROTECT UTILITIES THAT ARE TO REMAIN. REPAIR ANY DAMAGE ACCORDING TO LOCAL STANDARDS AND AT THE CONTRACTOR'S EXPENSE. COORDINATE ALL CONSTRUCTION WITH THE APPROPRIATE UTILITY COMPANY.
- 5. THE CONTRACTOR SHALL VERIFY THE LIMITS OF DEMOLITION WITH THE OWNER'S REPRESENTATIVE PRIOR TO COMMENCEMENT OF WORK.
- 6. IN AREAS WHERE EXISTING PAVEMENT WALKS OR CURBS ARE TO BE REMOVED, SAW CUT TO PROVIDE A CLEAN EDGE. COORDINATE EXTENT OF PAVEMENT DEMOLITION WITH THE LIMIT OF NEW IMPROVEMENTS ON THE SITE
- 7. CONTRACTOR SHALL COORDINATE PHASING OF THE DEMOLITION WITH THE OWNER'S REPRESENTATIVE AND LOCAL GOVERNING AGENCY PRIOR TO BEGINNING WORK. DISRUPTION OF EXISTING UTILITY SERVICES AND TRAFFIC PATTERNS SHALL BE MINIMIZED TO THE EXTENT POSSIBLE AND INITIATED ONLY AFTER APPROVAL BY THE LOCAL GOVERNING AGENCY AND THE UTILITY COMPANIES.
- 8. THE CONTRACTOR SHALL USE WATER SPRINKLING AND OTHER SUITABLE METHODS AS NECESSARY TO ACCOMPLISH THE PROPOSED IMPROVEMENTS SHOWN ON THESE PLANS.
- 9. THE CONTRACTOR SHALL CALL TENNESSEE ONE CALL (811) 72 HOURS PRIOR TO PROCEEDING

REQUIRED TO CONSTRUCT NEW UTILITY LINES AND DEMOLISH EXISTING UTILITY LINES.

ACCORDANCE WITH THE LANDSCAPE DRAWINGS

- 10. THE CONTRACTOR SHALL PRESERVE AND PROTECT SURVEY CONTROL POINTS AND SHALL BE RESPONSIBLE FOR REPLACEMENT OF ANY DISTURBED CONTROL POINTS.
- 11. EXISTING TREES TO BE PRESERVED ARE TO BE BARRICADED BEFORE BEGINNING CONSTRUCTION, IN
- 12. NO UTILITY OR STORM SEWER INFRASTRUCTURE SHALL BE DEMOLISHED UNTIL THE NEW LINES HAVE BEEN
- INSTALLED AND ARE PLACED INTO OPERATION. 13. THE CONTRACTOR SHALL INCORPORATE INTO HIS WORK ANY ISOLATION VALVES OR TEMPORARY PLUGS

#### SITE GRADING & EROSION CONTROL NOTES:

- 1. CONTRACTOR SHALL REFERENCE CITY OF FRANKLIN BMP MANUAL FOR ALL GRADING AND EROSION
- 2. THE DISTURBED AREA FOR THIS PROJECT IS APPROXIMATELY 4.12 ACRES
- 3. THE SUBJECT PROPERTY DOES NOT LIE WITHIN AN AREA OF FLOOD INUNDATION AS SHOWN ON FEMA FLOOD PANEL FOR THE SITE.
- 4. CONSTRUCT SILT BARRIERS BEFORE BEGINNING GRADING OPERATIONS.
- 5. MULCH AND SEED ALL DISTURBED AREAS AS SOON AS POSSIBLE AFTER FINAL GRADING IS COMPLETED, UNLESS OTHERWISE INDICATED. CONTRACTOR SHALL TAKE WHATEVER MEANS NECESSARY TO ESTABLISH PERMANENT SOIL STABILIZATION. SEE LANDSCAPE DRAWINGS.
- 6. REMOVE SEDIMENT FROM ALL DRAINAGE STRUCTURES BEFORE ACCEPTANCE BY LOCAL GOVERNING
- 7. CLEAN SILT BARRIERS WHEN THEY ARE APPROXIMATELY 33% FILLED WITH SEDIMENT OR AS DIRECTED BY THE OWNER'S REPRESENTATIVE. SILT BARRIERS SHALL BE REPLACED WHEN CAPACITY HAS BEEN
- 8. REMOVE THE TEMPORARY EROSION AND WATER POLLUTION CONTROL DEVICES ONLY AFTER A SOLID STAND OF GRASS HAS BEEN ESTABLISHED ON GRADED AREAS AND WHEN IN THE OPINION OF THE OWNER'S
- 9. THE CONTRACTOR IS TO VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES. TAKE CARE TO PROTECT UTILITIES THAT ARE TO REMAIN. REPAIR ANY DAMAGE ACCORDING TO LOCAL STANDARDS AND AT THE CONTRACTOR'S EXPENSE. COORDINATE ALL CONSTRUCTION WITH THE APPROPRIATE UTILITY COMPANY
- 10. PROVIDE TEMPORARY CONSTRUCTION ACCESS(ES) AT THE POINT(S) WHERE CONSTRUCTION VEHICLES EXIT THE CONSTRUCTION AREA. MAINTAIN PUBLIC ROADWAYS FREE OF TRACKED MUD AND DIRT.
- 11. THE CONTRACTOR SHALL COORDINATE THE EXACT LOCATION OF THE STORM DRAIN CONNECTIONS AT
- 12. THE CONTRACTOR SHALL CHECK ALL EXISTING GRADES AND DIMENSIONS IN THE FIELD PRIOR TO BEGINNING WORK AND REPORT ANY DISCREPANCIES TO THE ENGINEER.
- 13. PROPOSED CONTOUR LINES AND SPOT ELEVATIONS ARE THE RESULT OF AN ENGINEERED GRADING DESIGN AND REFLECT A PLANNED INTENT WITH REGARD TO DRAINAGE AND MOVEMENT OF MATERIALS. MINOR GRADE ADJUSTMENTS MAY BE REQUIRED. SHOULD THE CONTRACTOR HAVE ANY QUESTION OF THE INTENT OR ANY PROBLEM WITH THE CONTINUITY OF GRADES, THE ENGINEER SHALL BE CONTACTED
- 14. THE CONTRACTOR SHALL CALL "TENNESSEE ONE CALL" (811) 72 HOURS PRIOR TO PROCEEDING
- 15. ALL CUT AND FILL SLOPES SHALL BE 3 HORIZONTAL TO 1 VERTICAL OR FLATTER UNLESS OTHERWISE INDICATED ON THE PLANS.
- 16. ALL PIPES UNDER EXISTING PAVED AREAS SHALL BE BACKFILLED TO THE TOP OF SUBGRADE WITH CRUSHED
- 17. MINIMUM GRADE ON EXPOSED ASPHALT OR CONCRETE PAVING SHALL BE 1.0% UNLESS SPECIFICALLY NOTED OR SPOT ELEVATIONS SHOW DIFFERENTLY.
- 18. CONTRACTOR SHALL CONFORM TO ALL APPLICABLE CODES AND OBTAIN APPROVAL AS NECESSARY BEFORE
- 19. ALL EARTHWORK, INCLUDING THE EXCAVATED SUBGRADE AND EACH LAYER OF FILL SHALL BE MONITORED
- AND APPROVED BY A QUALIFIED GEOTECHNICAL ENGINEER, OR HIS REPRESENTATIVE. 20. IF ANY SPRINGS OR UNDERGROUND STREAMS ARE EXPOSED DURING CONSTRUCTION, PERMANENT FRENCH DRAINS OR OTHER MEASURES MAY BE REQUIRED. THE DRAINS SHALL BE SPECIFIED AND LOCATED DURING CONSTRUCTION AS REQUIRED BY THE CONDITIONS WHICH ARE ENCOUNTERED, AND SHALL BE APPROVED BY
- 21. THIS GRADING & DRAINAGE PLAN IS NOT A DETERMINATION OR GUARANTEE OF THE SUITABILITY OF THE SUBSURFACE CONDITIONS FOR THE WORK INDICATED. A GEOTECHNICAL SOILS REPORT HAS BEEN PREPARED AND IS AVAILABLE. DETERMINATION OF THE SUBSURFACE CONDITION FOR THE WORK INDICATED IS SOLELY THE RESPONSIBILITY OF THE CONTRACTOR.
- 22. THE CONTRACTOR SHALL TAKE SPECIAL CARE TO COMPACT FILL SUFFICIENTLY AROUND AND OVER ALL PIPES, STRUCTURES, VALVE STEMS, ETC. INSIDE THE PROPOSED PAVED AREAS TO AVOID SETTLEMENT. ANY SETTLEMENT DURING THE WARRANTY PERIOD SHALL BE RESTORED BY THE CONTRACTOR AT NO ADDITIONAL
- 23. DO NOT DISTURB VEGETATION OR REMOVE TREES EXCEPT WHEN NECESSARY FOR GRADING PURPOSES.
- 24. STRIP TOPSOIL FROM ALL CUT AND FILL AREAS AND STOCKPILE UPON COMPLETION OF GENERAL GRADING OVER ALL DISTURBED AREAS TO A MINIMUM DEPTH OF 6". CONTRACTOR SHALL SUPPLY ADDITIONAL TOP SOIL IF INSUFFICIENT QUANTITIES EXIST ON SITE.
- 25. TOP OF GRATE ELEVATIONS AND LOCATION OF COORDINATES FOR DRAINAGE STRUCTURES SHALL BE AS SHOWN ON THE DRAWINGS. THE GRATES SHALL SLOPE LONGITUDINALLY WITH THE PAVEMENT GRADES AND SHALL BE FLUSH WITH SURROUNDING SURFACE AND NOT RATTLE.
- 26. ALL DRAINAGE CONSTRUCTION MATERIALS AND INSTALLATION SHALL CONFORM TO THE REQUIREMENTS AND SPECIFICATIONS OF THE LOCAL GOVERNING AGENCY.
- 27. RELOCATION OF EXISTING PLANT MATERIALS SHALL BE COORDINATED WITH THE OWNER AND LANDSCAPE
- 28. POSITIVE DRAINAGE SHALL BE ESTABLISHED AS THE FIRST ORDER OF WORK AND SHALL BE MAINTAINED AT ALL TIMES DURING AND AFTER CONSTRUCTION. SOIL SOFTENED BY PERCHED WATER IN FOUNDATION AND PAVEMENT AREAS MUST BE UNDERCUT AND REPLACED WITH SUITABLE FILL MATERIALS APPROVED BY THE GEOTECHNICAL ENGINEER. GROUNDWATER INFILTRATION INTO EXCAVATIONS SHOULD BE ACCEPTED, AND THE WATER SHALL BE REMOVED USING GRAVITY DRAINAGE OR PUMPING
- 29. REINFORCED CONCRETE STORM DRAINAGE PIPE SHALL BE CLASS III.
- 30. ALL FILL MATERIAL SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT.
- 31. SEDIMENT REMOVED FROM SEDIMENT CONTROL STRUCTURES IS TO BE PLACED AT A SITE APPROVED BY THE ENGINEER. IT SHALL BE TREATED IN A MANNER SO THAT THE AREA AROUND THE DISPOSAL SITE WILL NOT BE CONTAMINATED OR DAMAGED BY THE SEDIMENT IN THE RUN-OFF. COST FOR THIS TREATMENT IS TO BE INCLUDED IN PRICE BID FOR EARTHWORK. THE CONTRACTOR SHALL OBTAIN THE DISPOSAL SITE AS PART
- 32. STOCKPILED TOPSOIL OR FILL MATERIAL IS TO BE TREATED AND SURROUND WITH SILT FENCE SO THE SEDIMENT RUN-OFF WILL NOT CONTAMINATE SURROUNDING AREAS OR ENTER NEARBY STREAMS
- 33. ANY SITE USED FOR DISPOSAL AND/OR STOCKPILE OF ANY MATERIAL SHALL BE PROPERLY PERMITTED FOR SUCH ACTIVITY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO SEE THAT ALL REQUIRED PERMITS. ARE SECURED FOR EACH PROPERTY UTILIZED. A COPY OF THE APPROVED PERMIT MUST BE PROVIDED TO THE INSPECTOR PRIOR TO COMMENCEMENT OF WORK ON ANY PROPERTY. FAILURE TO DO SO MAY RESULT IN THE CONTRACTOR REMOVING ANY ILLEGALLY PLACED MATERIAL AT HIS OWN EXPENSE.
- 34. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO WASTE EXCESS EARTH MATERIAL OFF SITE AT NO ADDITIONAL COST TO THE OWNER. THE CONTRACTOR SHALL FIRST OFFER THE EXCESS MATERIAL TO THE OWNER. IF NOT ACCEPTED BY THE OWNER, THE CONTRACTOR SHALL DISPOSE OF EARTH MATERIAL OFF SITE. IT SHALL ALSO BE THE CONTRACTOR'S RESPONSIBILITY TO IMPORT SUITABLE MATERIAL (AT NO ADDITIONAL COST TO THE OWNER) FOR EARTHWORK OPERATIONS IF SUFFICIENT AMOUNTS OF EARL MATERIAL ARE NOT
- 35. TREE PROTECTION FENCING SHALL BE INSTALLED PRIOR TO THE ISSUANCE OF A GRADING PERMIT. SEE LANDS CAPE DRAWINGS

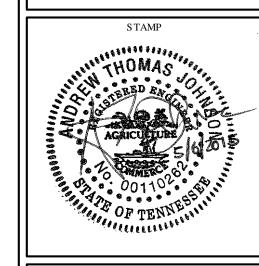
#### SITE UTILITY NOTES:

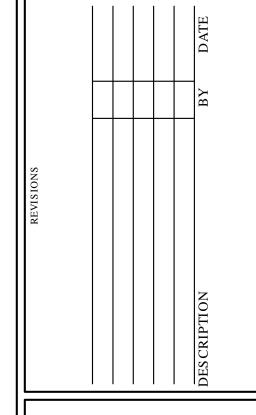
- . ALL WATER LINES, SEWER LINES, AND APPURTENANCES SHALL BE OF MATERIALS AND CONSTRUCTION THAT CONFORM TO THE FRANKLIN WATER MANAGEMENT REQUIREMENTS AND SPECIFICATIONS AND DETAILS.
- 2. PROVIDE A MINIMUM 30" OF COVER OVER ALL WATER LINES.
- 3. THE CONTRACTOR SHALL MAINTAIN 10 FEET HORIZONTAL SEPARATION BETWEEN SANITARY SEWER LINES AND WATER LINES, WHERE THESE CRITERIA CANNOT BE MET, THE CONTRACTOR SHALL MAINTAIN 18" VERTICAL SEPARATION BETWEEN WATER AND SEWER LINES.
- 4. THE CONTRACTOR SHALL FIELD VERIFY THE EXACT HORIZONTAL AND VERTICAL LOCATION OF EXISTING MANHOLES OR SANITARY SEWER LINES AT THE POINT OF CONNECTION PRIOR TO THE COMMENCEMENT OF ORDERING OF MATERIALS, CONSTRUCTION OR REPORT ANY DISCREPANCIES TO
- 5. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL CHARTED AND UNCHARTED UTILITIES. TAKE CARE TO PROTECT UTILITIES THAT ARE TO REMAIN. REPAIR ANY DAMAGE ACCORDING TO LOCAL STANDARDS AND AT THE CONTRACTOR'S EXPENSE. COORDINATE ALL CONSTRUCTION WITH THE APPROPRIATE UTILITY COMPANY.
- 6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE SEQUENCING OF CONSTRUCTION FOR ALL UTILITY LINES SO THAT WATER LINES DO NOT CONFLICT WITH SANITARY SEWERS, SANITARY SEWER SERVICES, STORM SEWERS, OR ANY OTHER UTILITY OR STRUCTURE, EXISTING OR PROPOSED.
- 8. THE LOCATION OF EXISTING UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL NOTIFY EACH INDIVIDUAL UTILITY OWNER OF HIS PLAN OF OPERATION IN THE AREA OF THE UTILITIES. PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL CONTACT THE UTILITY OWNERS AND REQUEST THEM TO PROPERLY LOCATE THEIR RESPECTIVE UTILITY ON THE GROUND. THIS NOTIFICATION SHALL BE GIVEN AT LEAST THREE (3) BUSINESS DAYS PRIOR TO COMMENCEMENT OF OPERATIONS AROUND THE UTILITY
- 9. BEFORE CONNECTIONS ARE MADE INTO EXISTING UTILITIES, THE NEW LINES ARE TO BE FLUSHED AND TESTED BY THE CONTRACTOR IN ACCORDANCE WITH THE CITY OF FRANKLIN WATER AND SEWER
- 10. ALL TRENCHES CUT IN PARKING AREAS OR DRIVES SHALL UTILIZE A CLEAN SAW CUT AND SHALL BE BACKFILLED(100%) TO FINAL SUBGRADE WITH # 57 STONE. REPAIR ROADS PER CITY OF
- 11. REPAIR ALL DAMAGE TO EXISTING FEATURES (i.e. DRIVES, ROADS, YARDS, LANDS CAPING, ETC.) TO PRE-CONSTRUCTION CONDITION.
- 12. THE CONTRACTOR SHALL PROVIDE ALL HORIZONTAL AND VERTICAL BENDS TO ATTAIN THE ALIGNMENT INDICATED ON THE PLANS. PROVIDE VERTICAL BENDS WHERE NECESSARY TO ALLOW WATER LINES TO PASS UNDER OR OVER OTHER UTILITY LINES. (ALL BENDS AND BRACES NEEDED MAY NOT BE ACTUALLY SHOWN). PROVIDE BRACING, RODDING AND/OR CONCRETE THRUST RESTRAINT ALL BENDS AND TEES AS REQUIRED BY CITY OF FRANKLIN WATER MANAGEMENT.
- 13. REDUCED PRESSURE BACKFLOW PREVENTER (RPBP) OR DUAL CHECK WILL BE REQUIRED ON NEW SERVICE FOR CENTRAL ENERGY PLANT (CEP) AND MUST BE APPROVED BY THE FRANKLIN WATER MANAGEMENT.
- 14. COORDINATE THE EXACT LOCATION OF ALL UTILITIES ENTERING THE BUILDING WITH THE PLUMBING
- 15. WATER METERS SHALL BE PER THE SIZE AND DETAILS SHOWN ON THE DRAWINGS
- 16. THE CITY OF FRANKLIN IS NOT A MEMBER OF TN. ONE CALL. CONTRACTOR TO NOTIFY UTILITY OWNER NO LESS THAN 72 HRS. PRIOR TO EXCAVATION.
- 17. THE CONTRACTOR SHALL VERIFY REQUIRED PIPE LENGTHS, INVERTS, EXISTING PIPE MATERIAL AND SIZES AS
- 18. REPAIR EXISTING PAVEMENT, CURBS, WALKS, LANDS CAPING, ETC. THAT ARE DAMAGED BY CONSTRUCTION ACTIVITIES TO A LIKE NEW CONDITION AT NO ADDITIONAL COST TO THE OWNER.
- 19. THE PROPOSED GAS LINE CONSTRUCTION AND INSTALLATION SHALL BE COORDINATED WITH THE
- LOCAL GAS COMPANY BY THE CONTRACTOR. 20. THE PROPOSED ELECTRIC LINE CONSTRUCTION AND INSTALLATION SHALL BE COORDINATED WITH
- THE LOCAL ELECTRIC COMPANY BY THE CONTRACTOR. 21. THE PROPOSED TELEPHONE LINE CONSTRUCTION AND INSTALLATION SHALL BE COORDINATED
- WITH THE LOCAL TELEPHONE COMPANY BY THE CONTRACTOR. 22. THE CONTRACTOR SHALL ADJUST THE ALIGNMENT OF THE WATER LINES (HORIZONTALLY AND/OR
- VERTICALLY) TO ALLOW THE REQUIRED BRACING AT BENDS AND TEES. 23. EXISTING MANHOLES, CLEANOUTS, VALVES AND OTHER UTILITY CASTINGS LOCATED IN FILL/CUT

AREAS SHALL BE ADJUSTED TO ENSURE THAT THE TOP OF CASTING IS FLUSH WITH THE FINISHED GRADE.

- 24. THE CONTRACTOR WILL PROVIDE ALL NECESSARY PROTECTIVE MEASURES TO SAFE GUARD EXISTING UTILITIES FROM DAMAGE DURING CONSTRUCTION OF THIS PROJECT. IN THE EVENT THAT SPECIAL EQUIPMENT IS REQUIRED TO WORK OVER AND AROUND THE LITILITIES. THE CONTRACTOR WILL BE REQUIRED TO FURNISH SUCH EQUIPMENT AT NO ADDITIONAL COST TO
- 25. PRIOR TO SUBMITTING HIS BID, THE CONTRACTOR WILL BE SOLELY RESPONSIBLE FOR CONTACTING OWNERS OF ALL AFFECTED UTILITIES IN ORDER TO DETERMINE THE EXTENT TO WHICH UTILITY RELOCATIONS AND/OR ADJUSTMENTS WILL HAVE UPON THE SCHEDULE OF WORK FOR THE PROJECT. OTHER UTILITY FACILITIES MAY NEED TO BE ADJUSTED CONCURRENTLY WITH THE CONTRACTOR'S
- 26. ALL CONNECTIONS TO EXISTING MANHOLES SHALL BE BY THE CORING AND RESILIENT SEAL METHOD.
- 27. FIRE HYDRANT ASSEMBLIES INCLUDE THE APPROPRIATE SIZED TEE (WITH KICKER), 6" LINE TO HYDRANT, 6" GATE VALVE (WITH VALVE BOX), AND FIRE HYDRANT (WITH KICKER), HYDRANTS SHALL BE INSTALLED AT LOCATIONS SHOWN ON THE PLANS.
- 28. CONCRETE CAPS AND ENCASEMENTS ON WATER AND SEWER LINES SHALL BE INSTALLED WHERE
- 29. BACKFLOW PREVENTION DEVICE FOR THE DOMESTIC WATER SERVICE TO THE CEP SHALL BE LOCATED INSIDE THE RUILDING SEE PLUMBING PLANS
- 30. THE FIRE LINE SHALL BE INSTALLED BY A SPRINKLER CONTRACTOR LICENSED IN THE STATE OF TENNESSEE. REFER TO FIRE PROTECTION DRAWINGS
- 31. THE DOMESTIC LINE WATER METER SHALL BE APPROVED BY FRANKLIN WATER MANAGEMENT PRIOR TO PURCHASE AND INSTALLATION.







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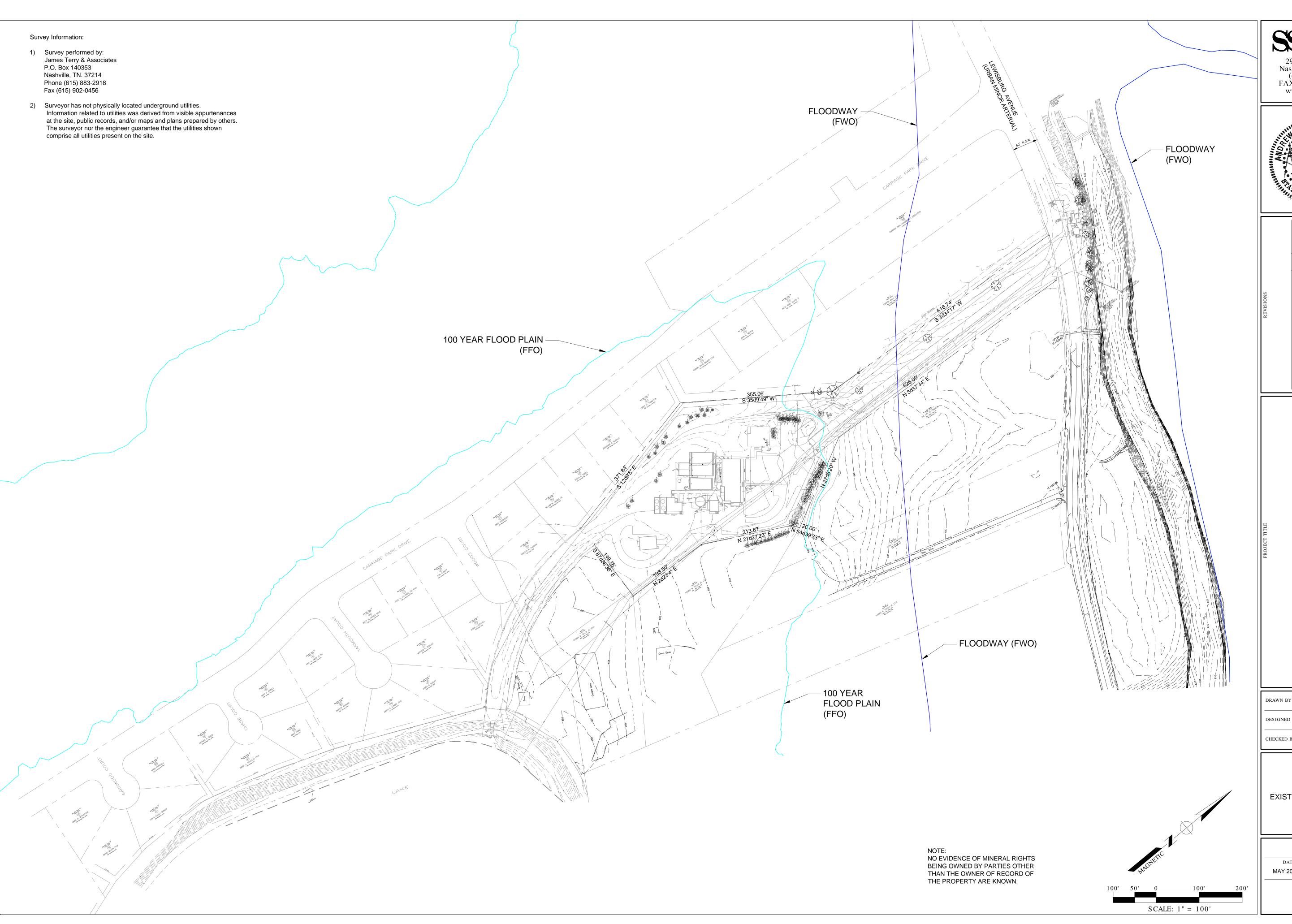
**VICINITY MAP & GENERAL** NOTES

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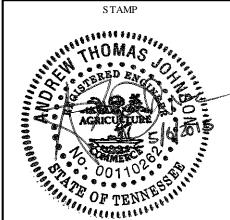
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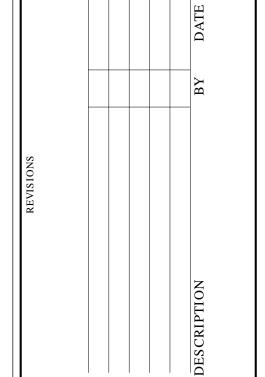
AS NOTED



Smith Seckman Reid, Inc.

2995 Sidco Drive Nashville, TN 37204 (615) 383-1113
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City of Franklin Water Treatment Facility, Site Plan COF - Project NO. 5842

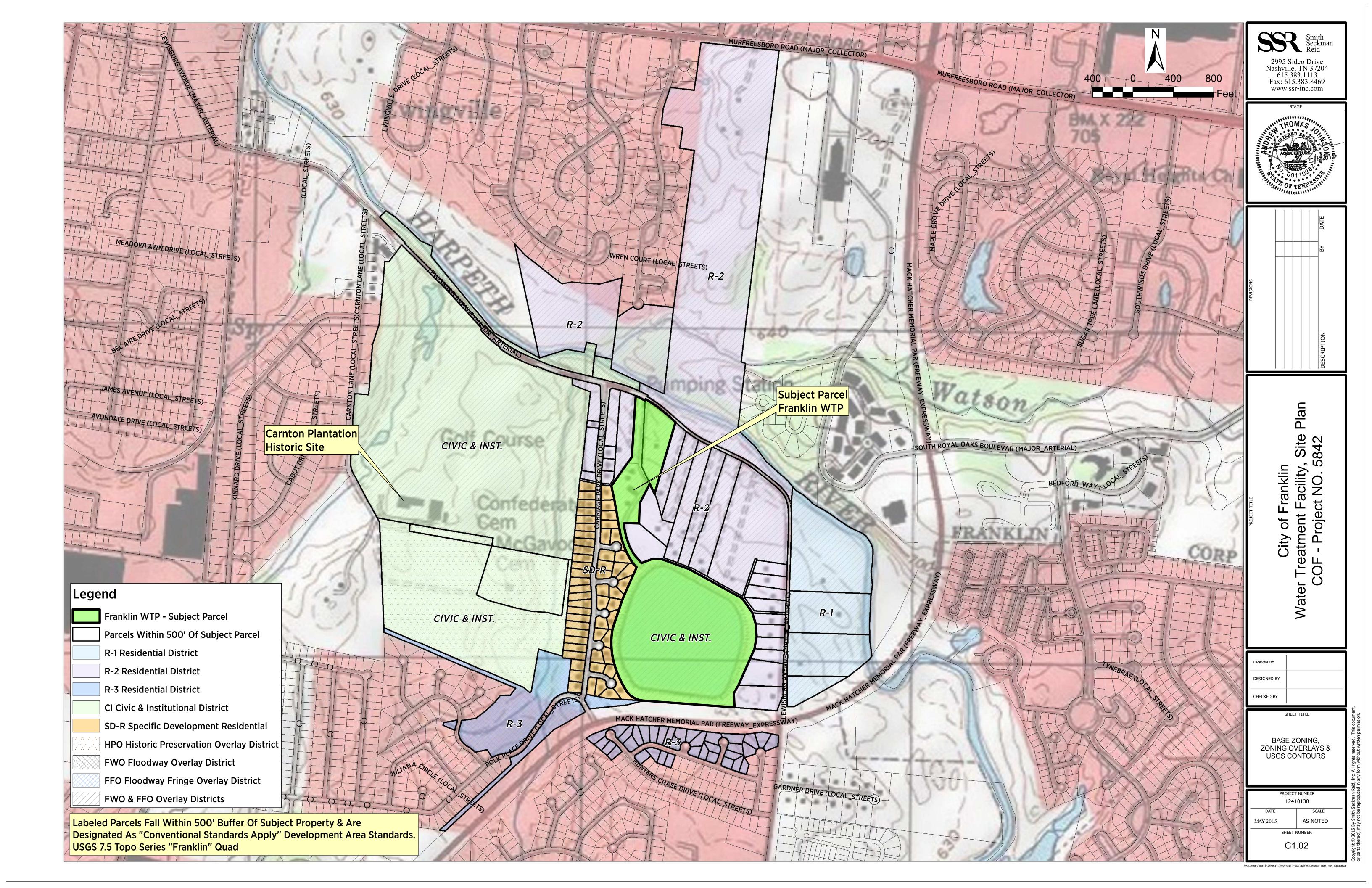
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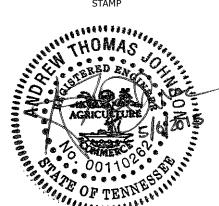
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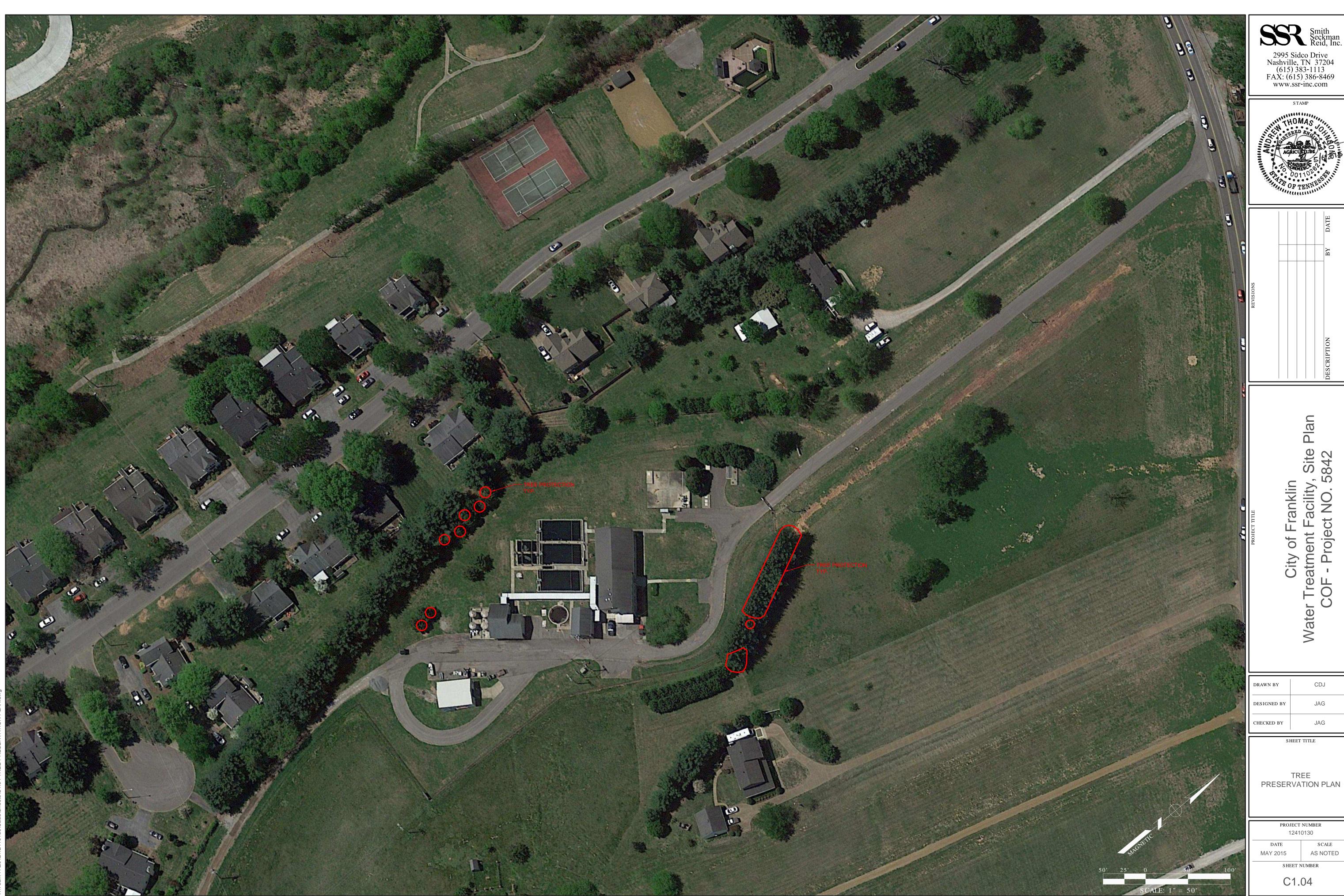


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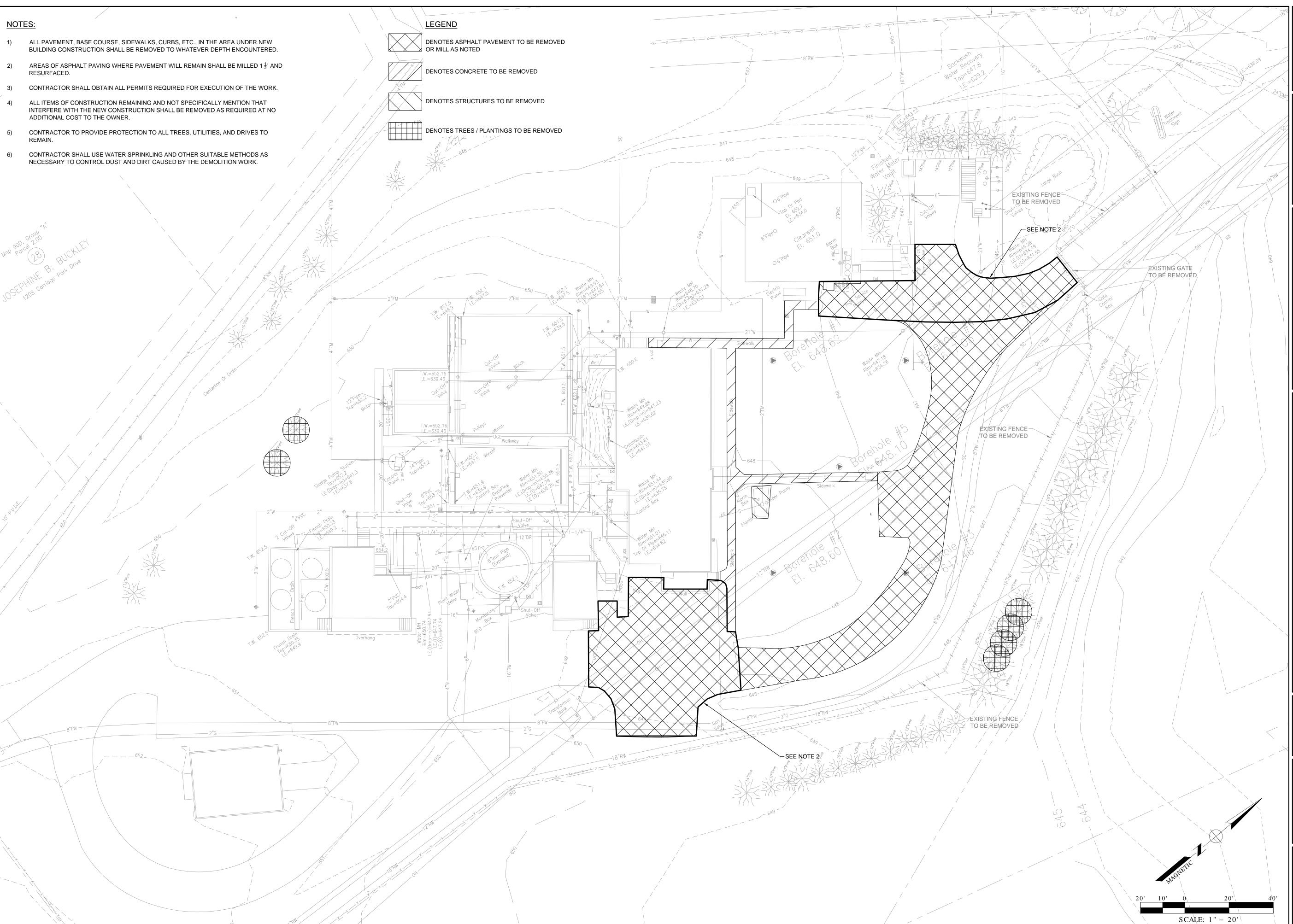
City of Franklin er Treatment Facility, COF - Project NO. 58

AS NOTED



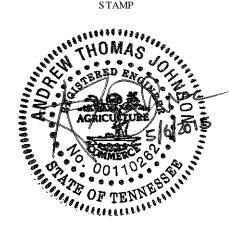
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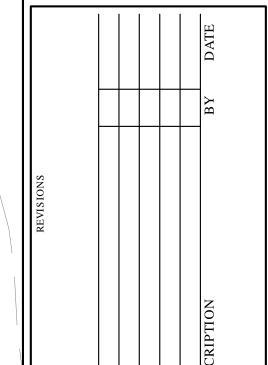
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City of Franklin Water Treatment Facility, Site Plar COF - Project NO. 5842

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DESIGNED BY JAG

CHECKED BY JAG

SHEET TITLE

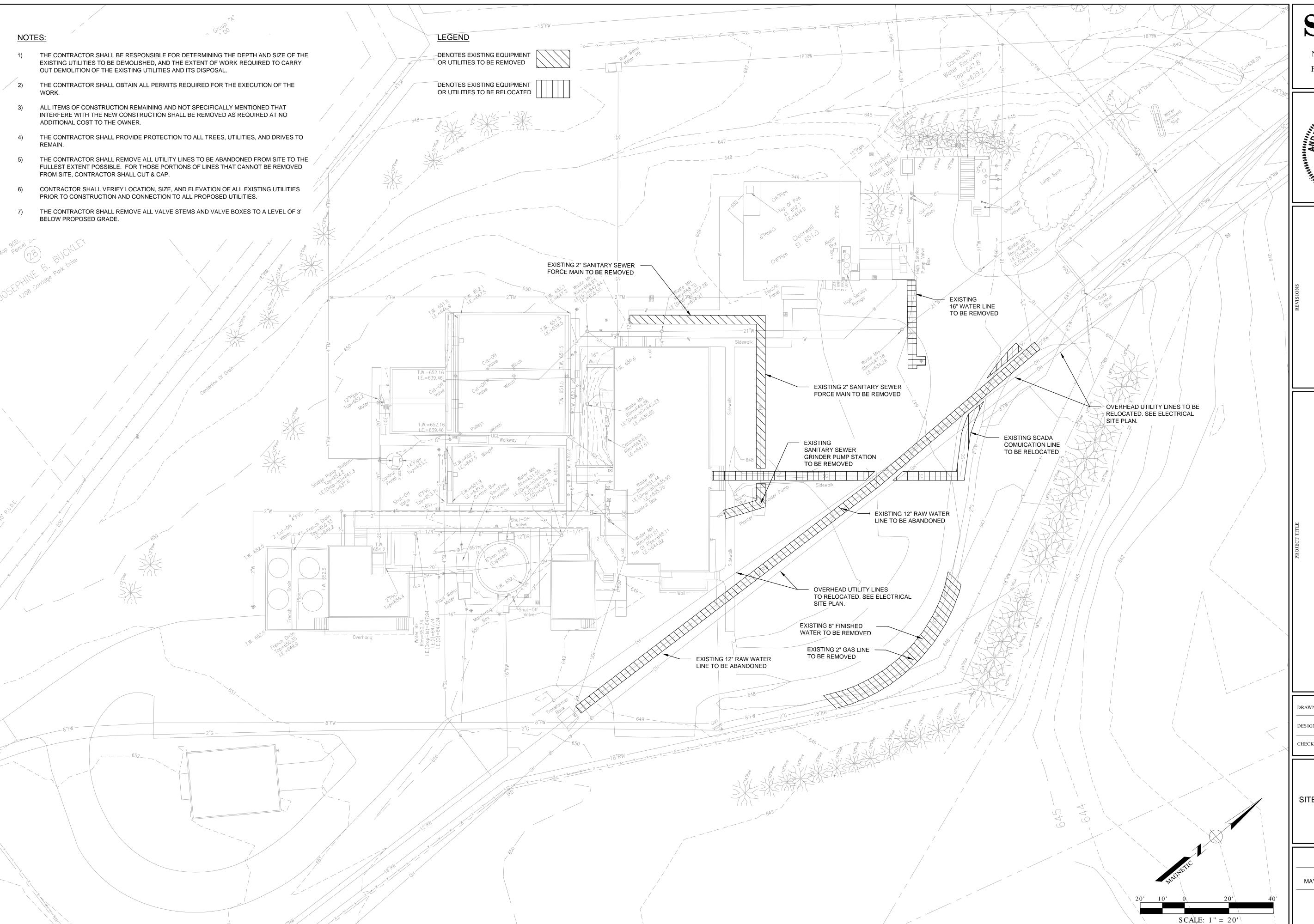
PLANT SITE DEMOLITION
PLAN

PROJECT NUMBER
12410130

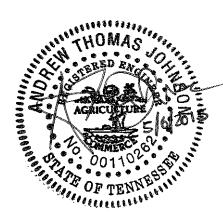
DATE SCALE
MAY 2015 AS NOTED

SHEET NUMBER

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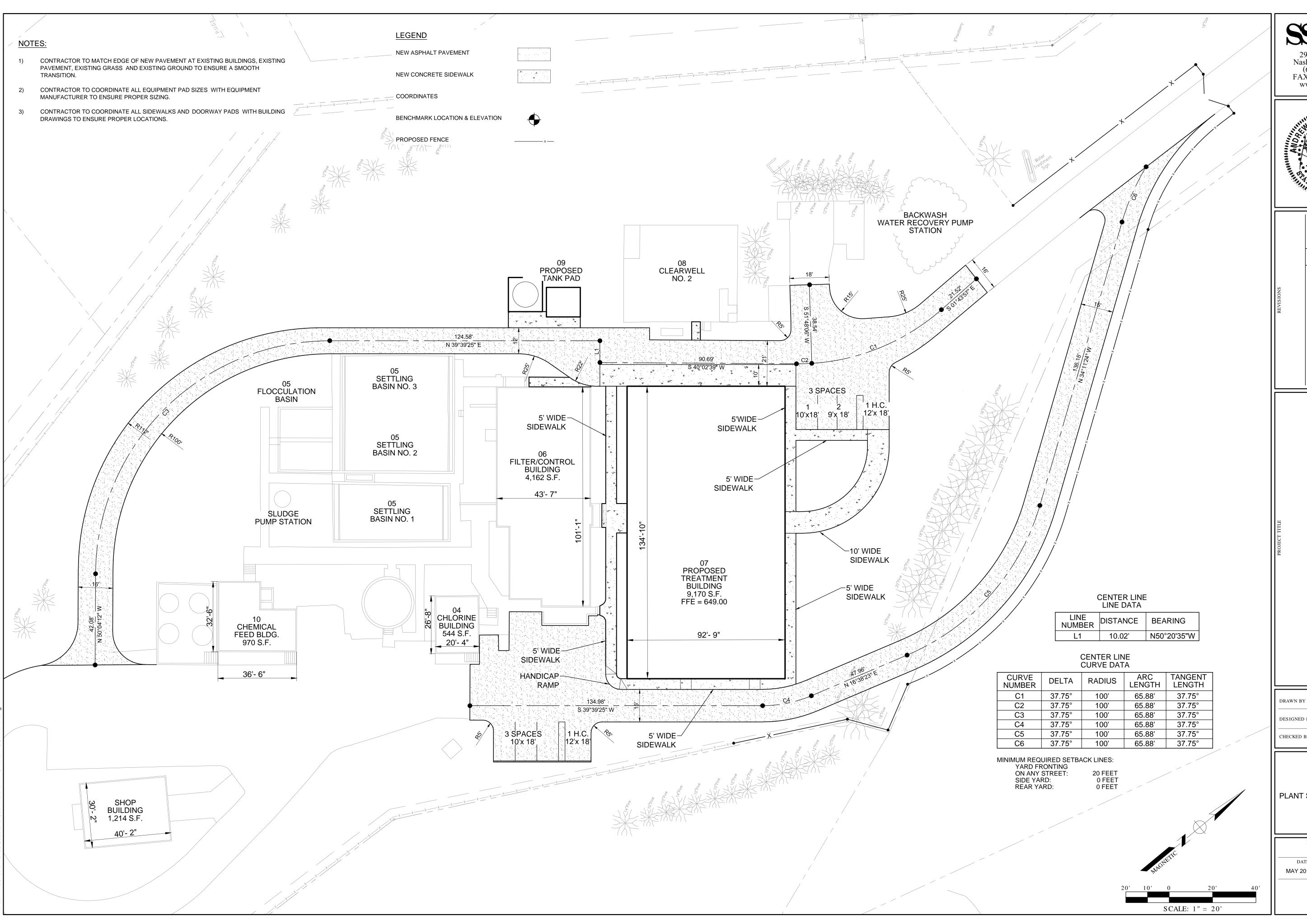
SITE PIPING DEMOLITION PLAN

PROJECT NUMBER
12410130

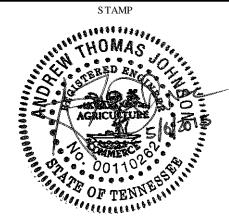
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MAY 2015 AS NOTED

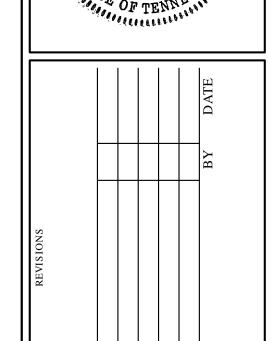
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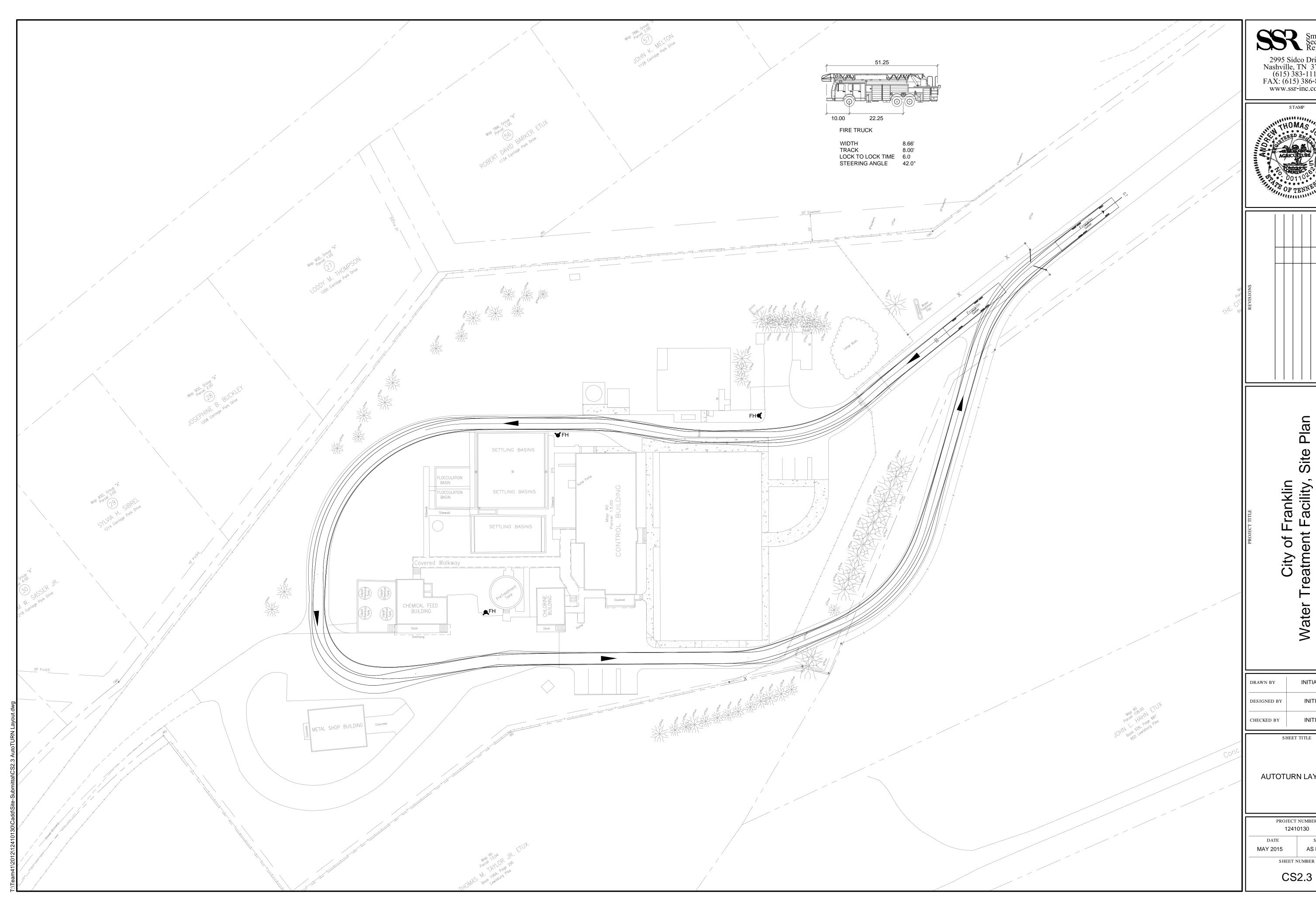
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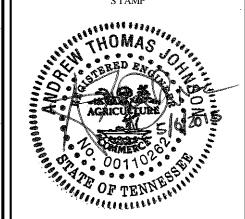
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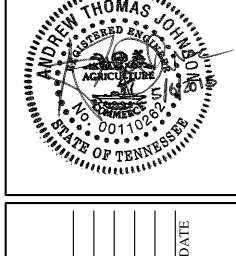
PLANT SITE LAYOUT PLAN

PROJECT NUMBER 12410130 DATE SCALE AS NOTED MAY 2015 SHEET NUMBER CS2.2



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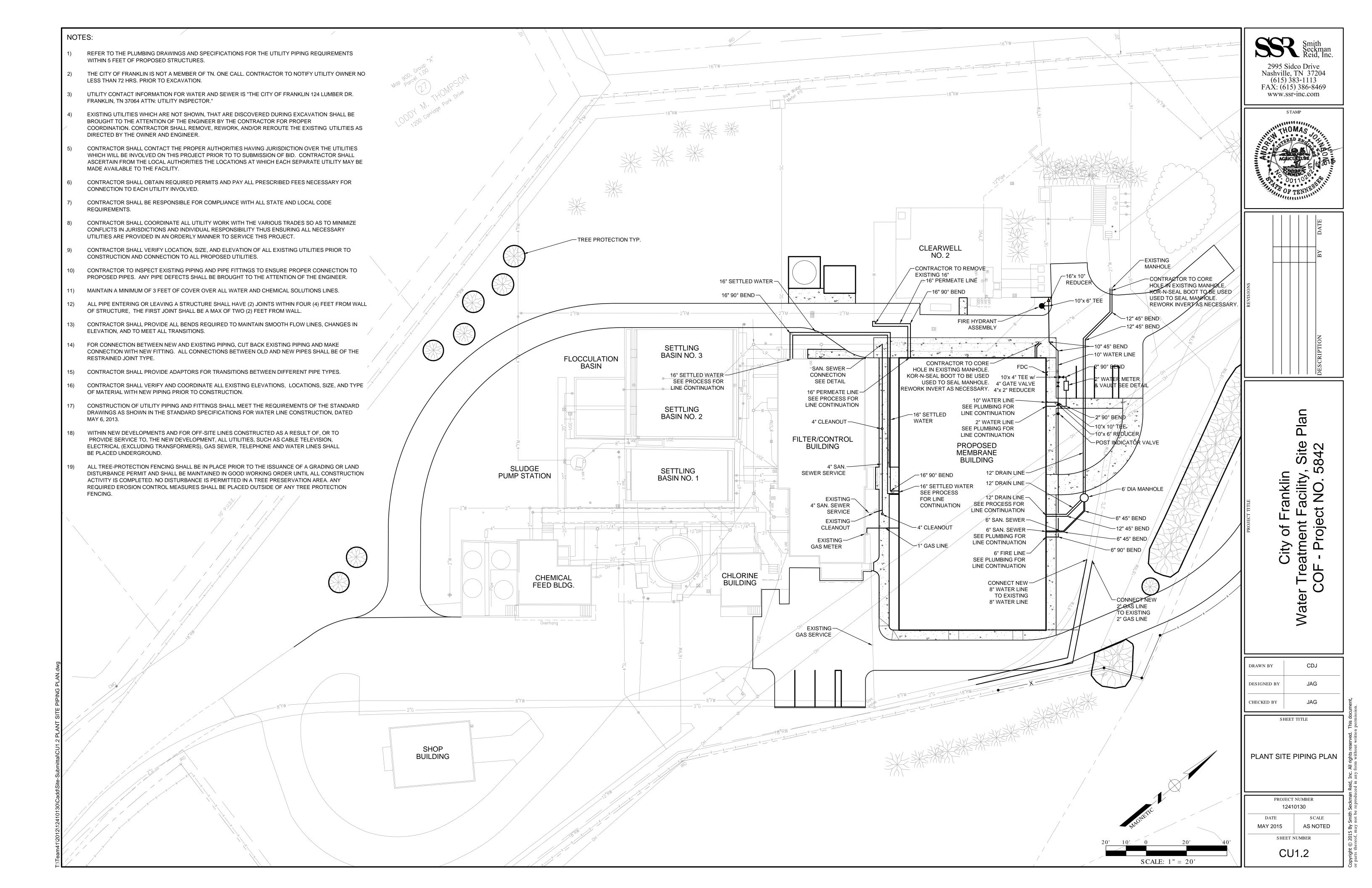
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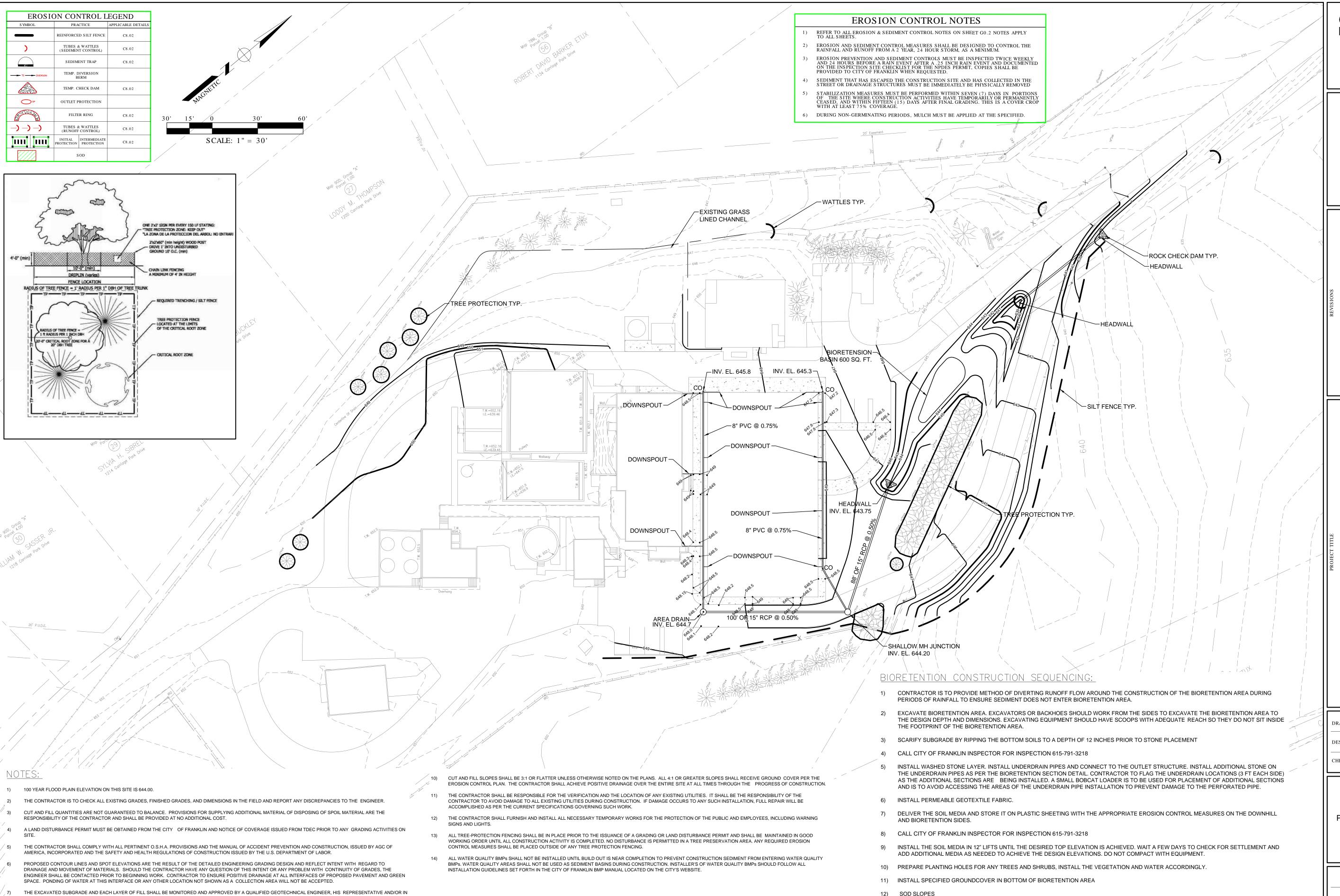
City of Franklin Water Treatment Facility, Site COF - Project NO. 5842

INITIALS INITIALS INITIALS

AUTOTURN LAYOUT

SCALE AS NOTED SHEET NUMBER





ACCORDANCE WITH THE SPECIFICATIONS.

CONTRACTOR AT HIS EXPENSE.

THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES AND TAKE CARE TO PROTECT UTILITIES THAT ARE TO REMAIN. REPAIR ANY DAMAGE

ACCORDING TO LOCAL STANDARDS AND AT THE CONTRACTOR'S EXPENSE. COORDINATE ALL CONSTRUCTION WITH THE APPROPRIATE UTILITY COMPANY. ENGINEER

ANY DAMAGE RESULTING FROM NEW CONSTRUCTION TO EXISTING ASPHALT OR UTILITIES TO REMAIN, SHALL BE REPLACED WITH LIKE MATERIALS BY THE

12) SOD SLOPES

13) CONTRACTOR TO FLAG LIMITS OF BIORETENTION BASIN FOR SURVEY TO LOCATE AND SHOW ON ASBUILT PLANS.

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SHEET TITLE

PLANT SITE GRADING & EROSION CONTROL

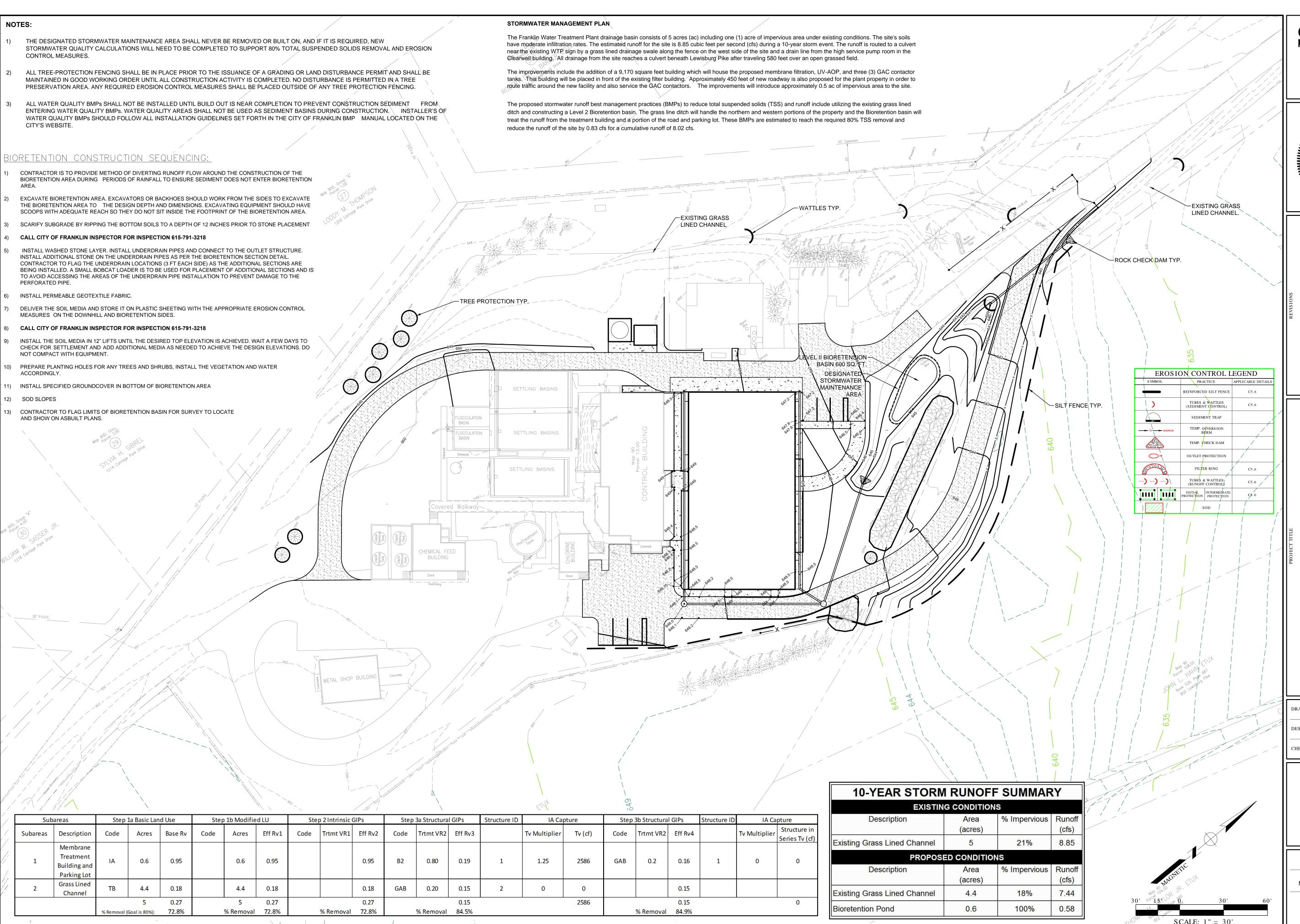
> PROJECT NUMBER 12410130 DATE SCALE

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SHEET NUMBER

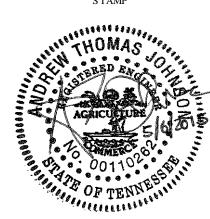
APRIL 2015

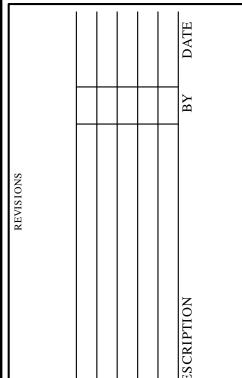
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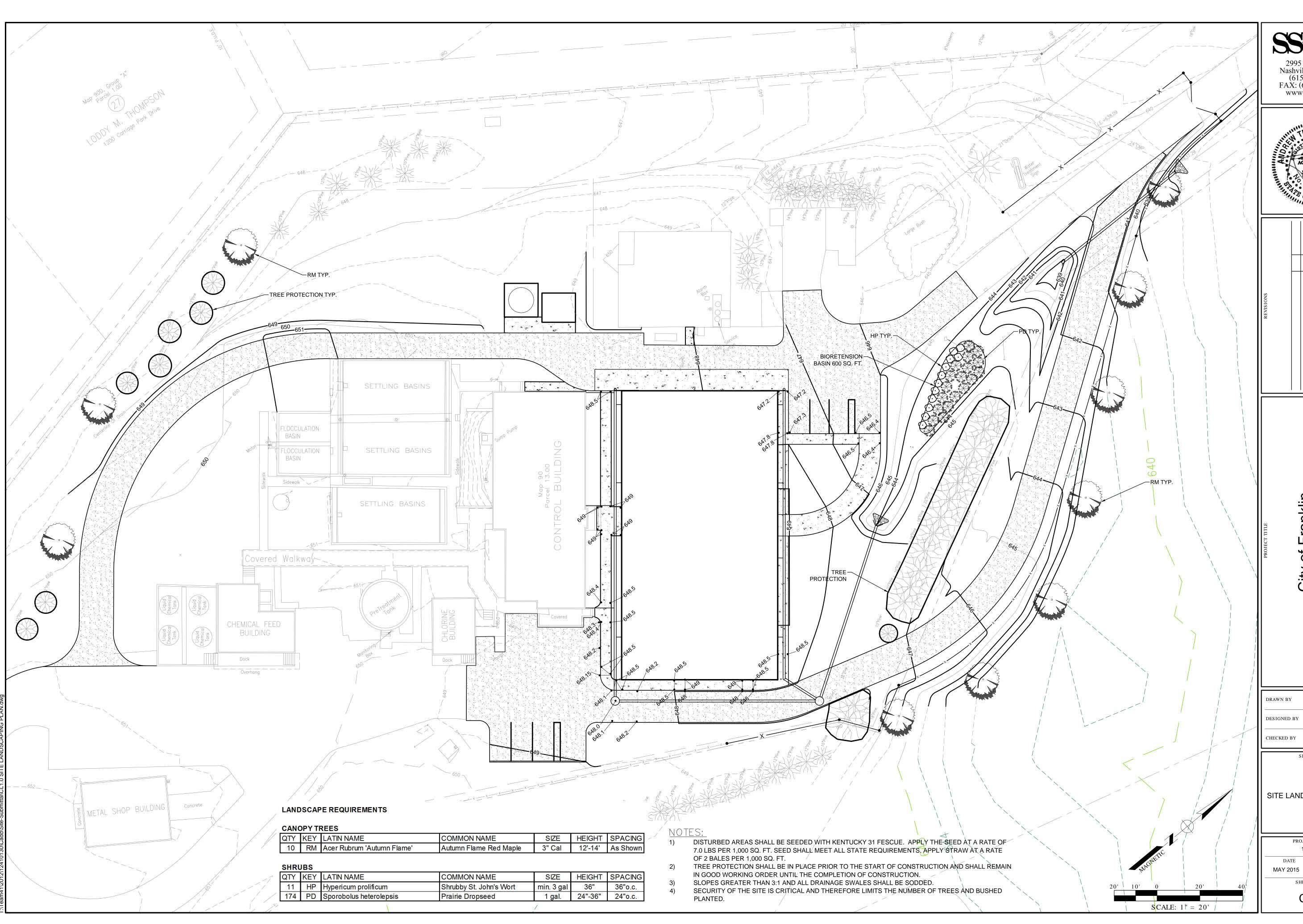
STORMWATER MANAGEMENT PLAN

PROJECT NUMBER
12410130

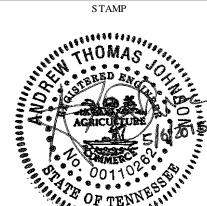
DATE SCALE
MAY 2015 AS NOTED

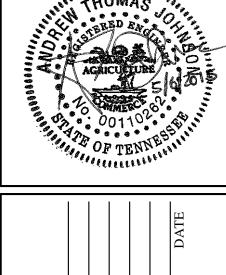
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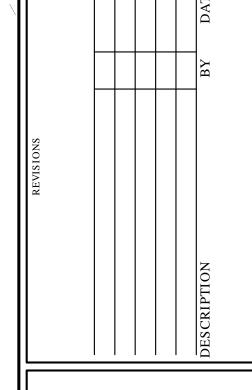
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Project

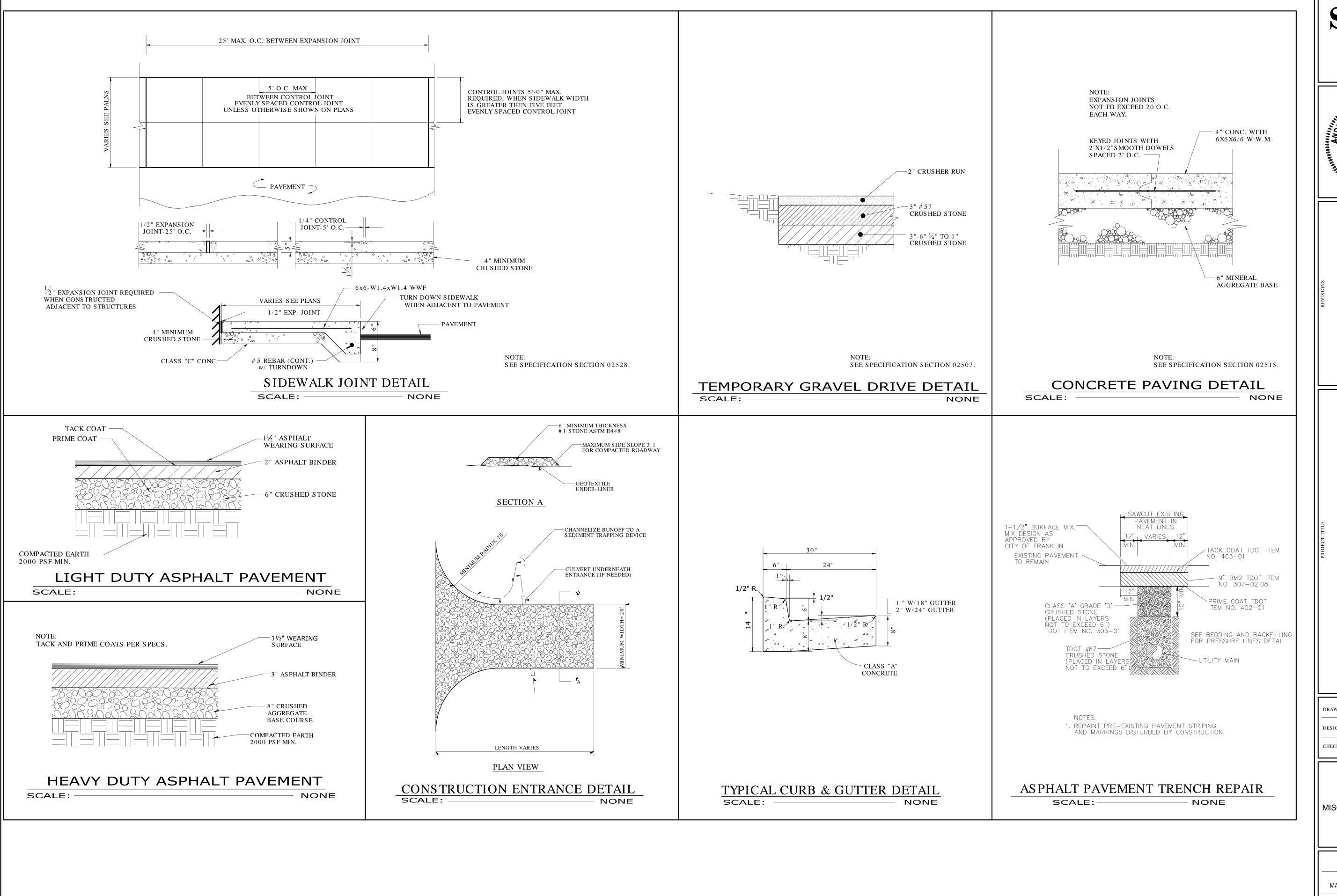
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SITE LANDSCAPING PLAN

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PROJECT NUMBER 12410130					
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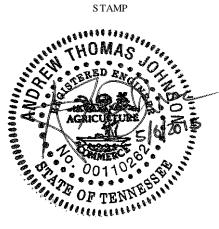
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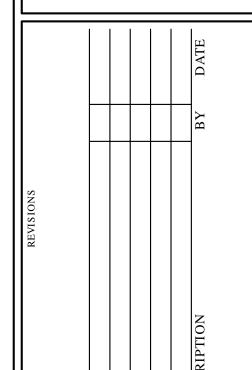


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SHEET TITLE

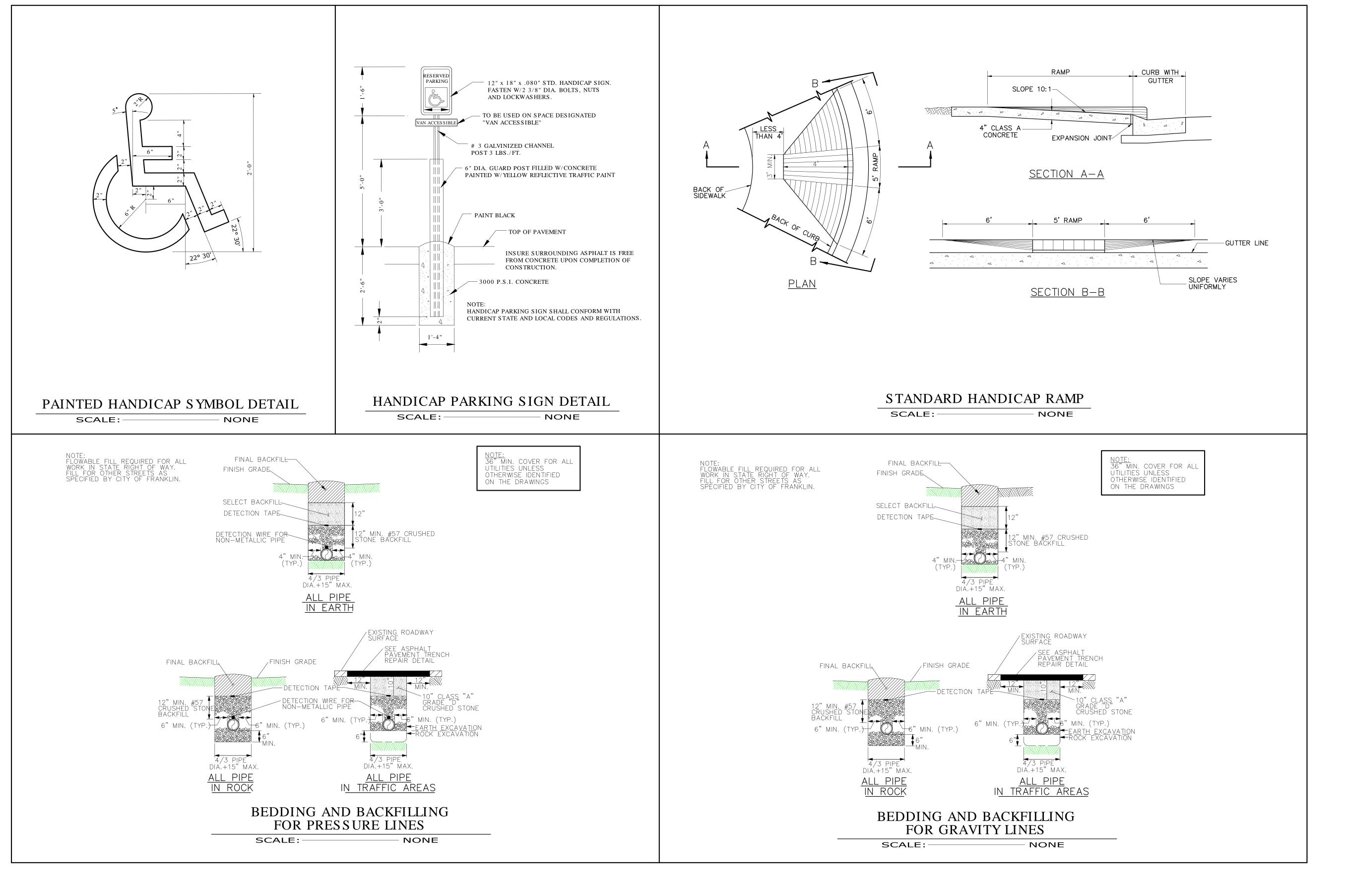
MISCELLANEOUS DETAILS

PROJECT NUMBER
12410130

DATE SCALE
MAY 2015 AS NOTED

SHEET NUMBER

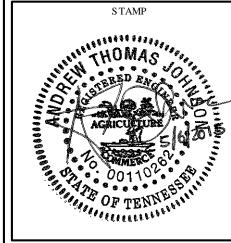
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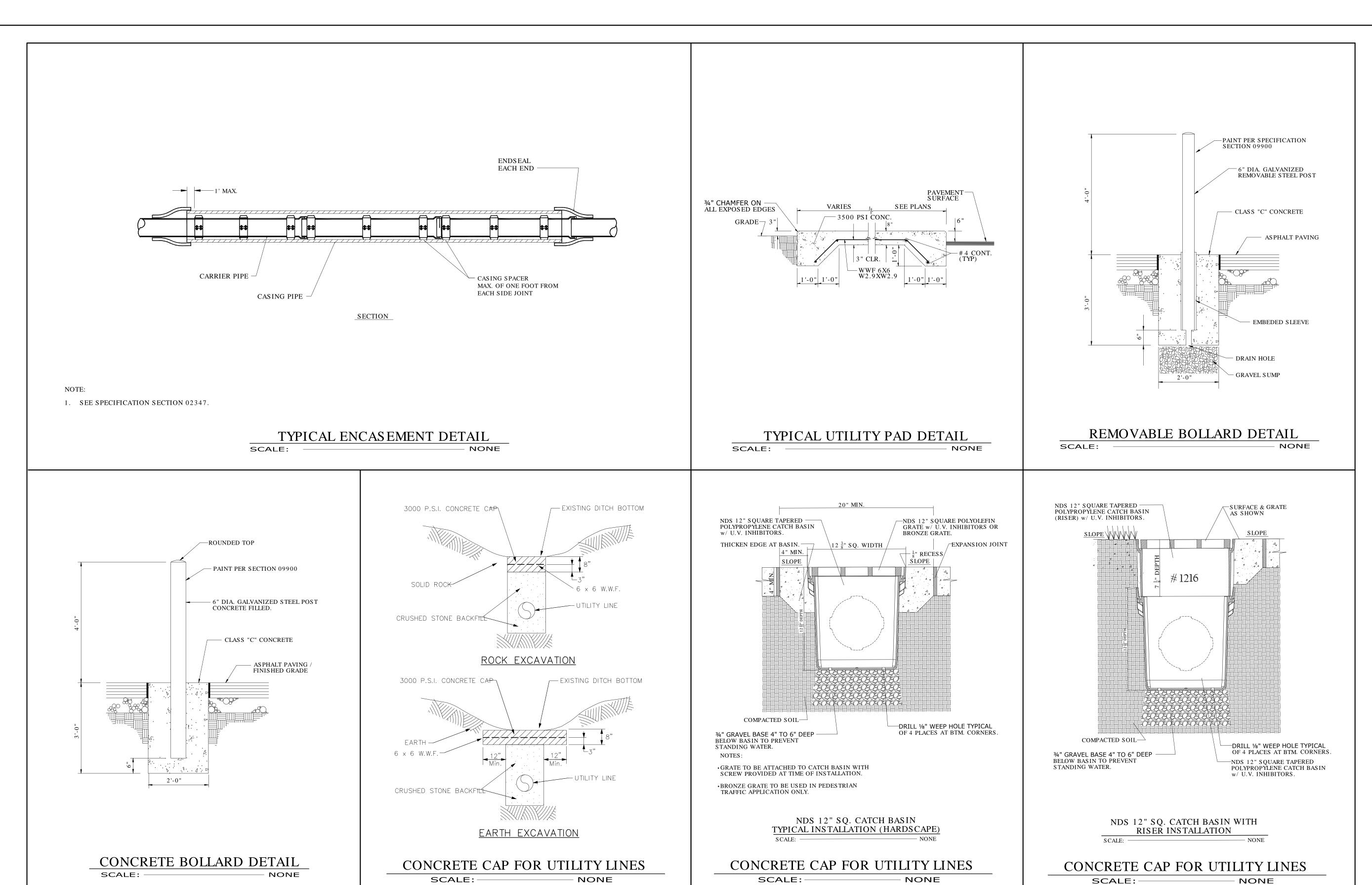
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12410130

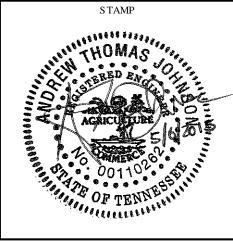
DATE SCALE
MAY 2015 AS NOTED

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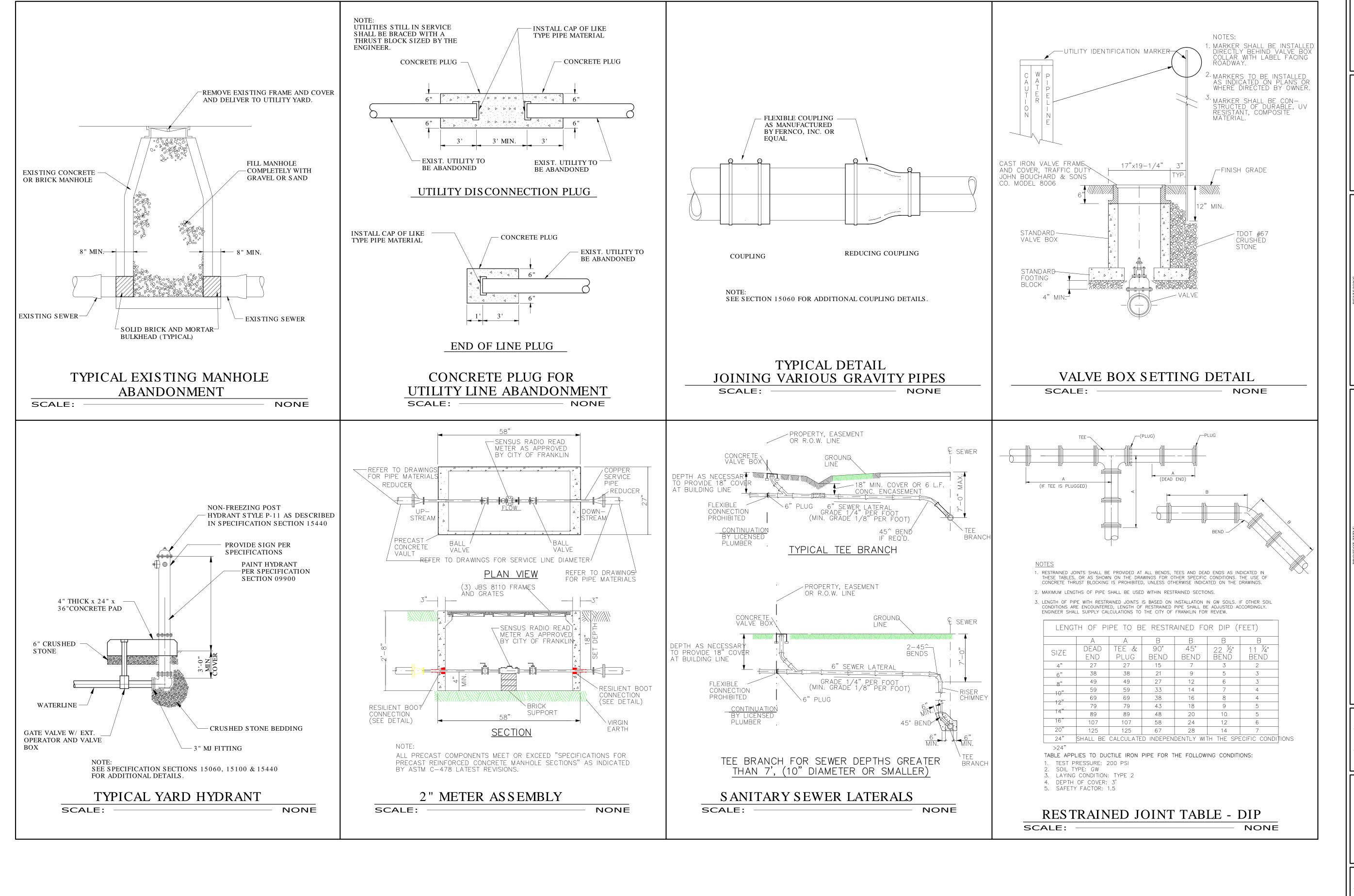
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MISCELLANEOUS DETAILS

PROJECT NUMBER 12410130 DATE SCALE AS NOTED MAY 2015 SHEET NUMBER

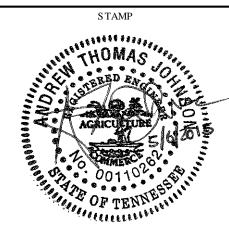
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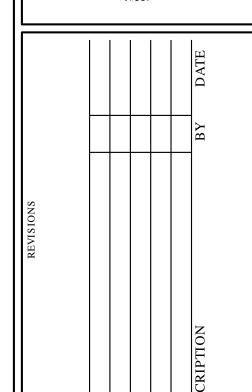


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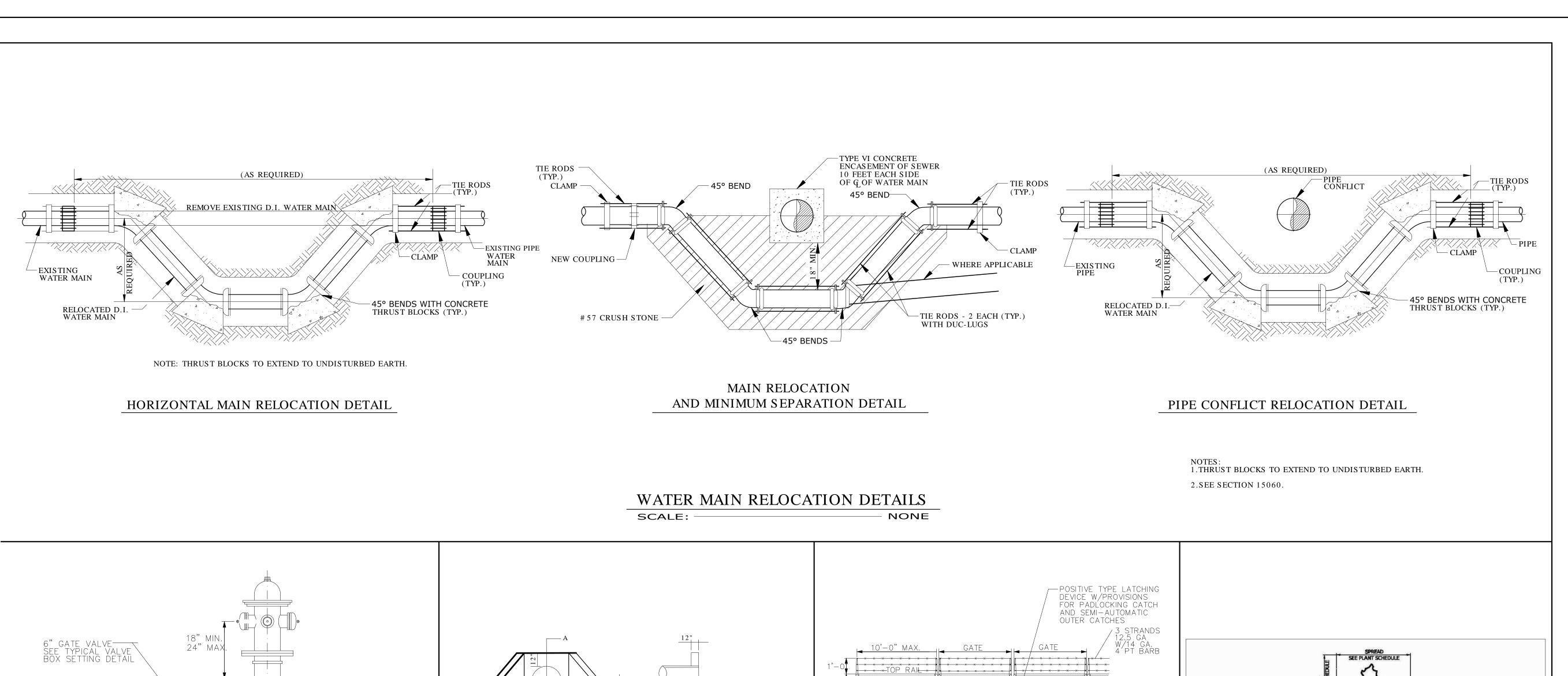
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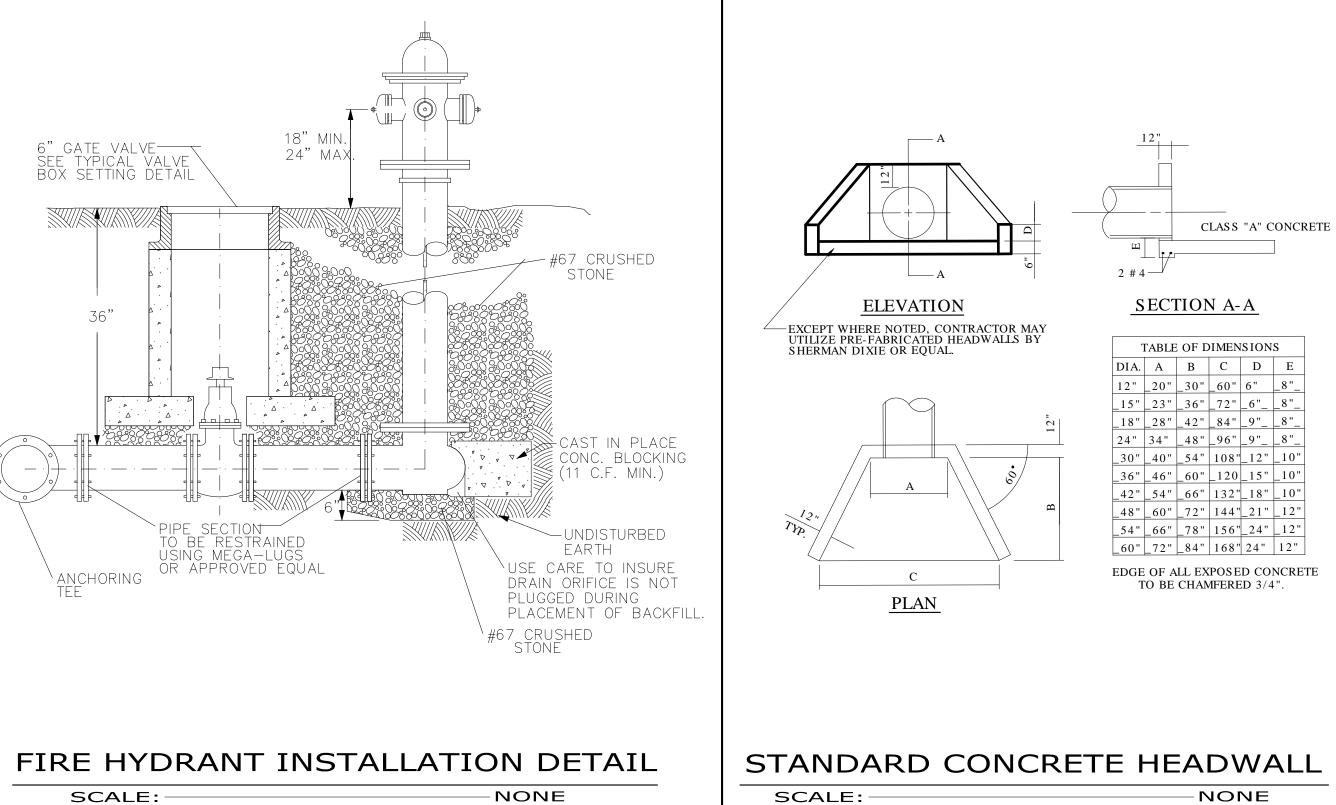
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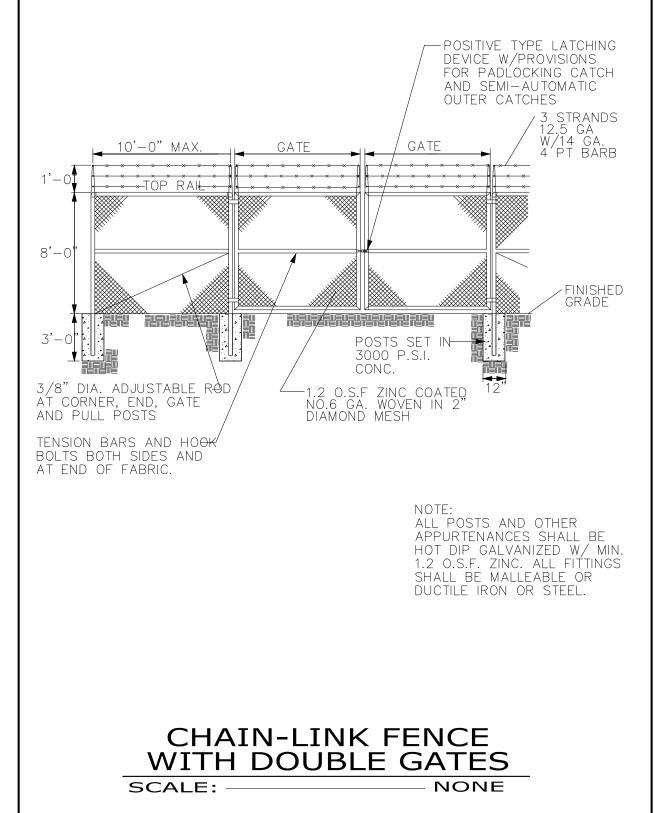
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MAY 2015 AS NOTED

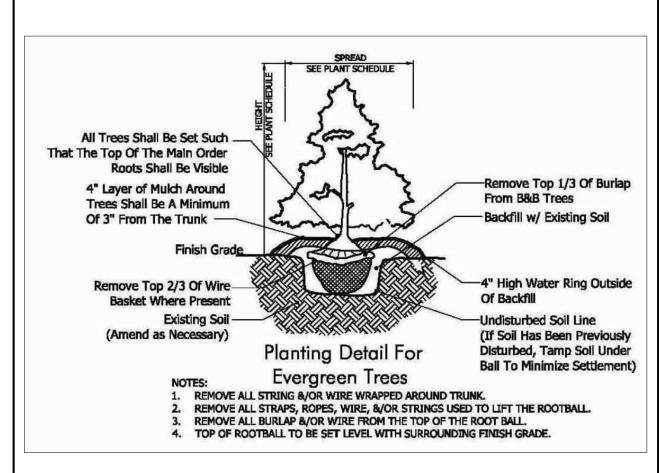
SHEET NUMBER

C5.4









EVERGREEN TREE PLANTING DETAIL
SCALE: NONE

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MISCELLANEOUS DETAILS

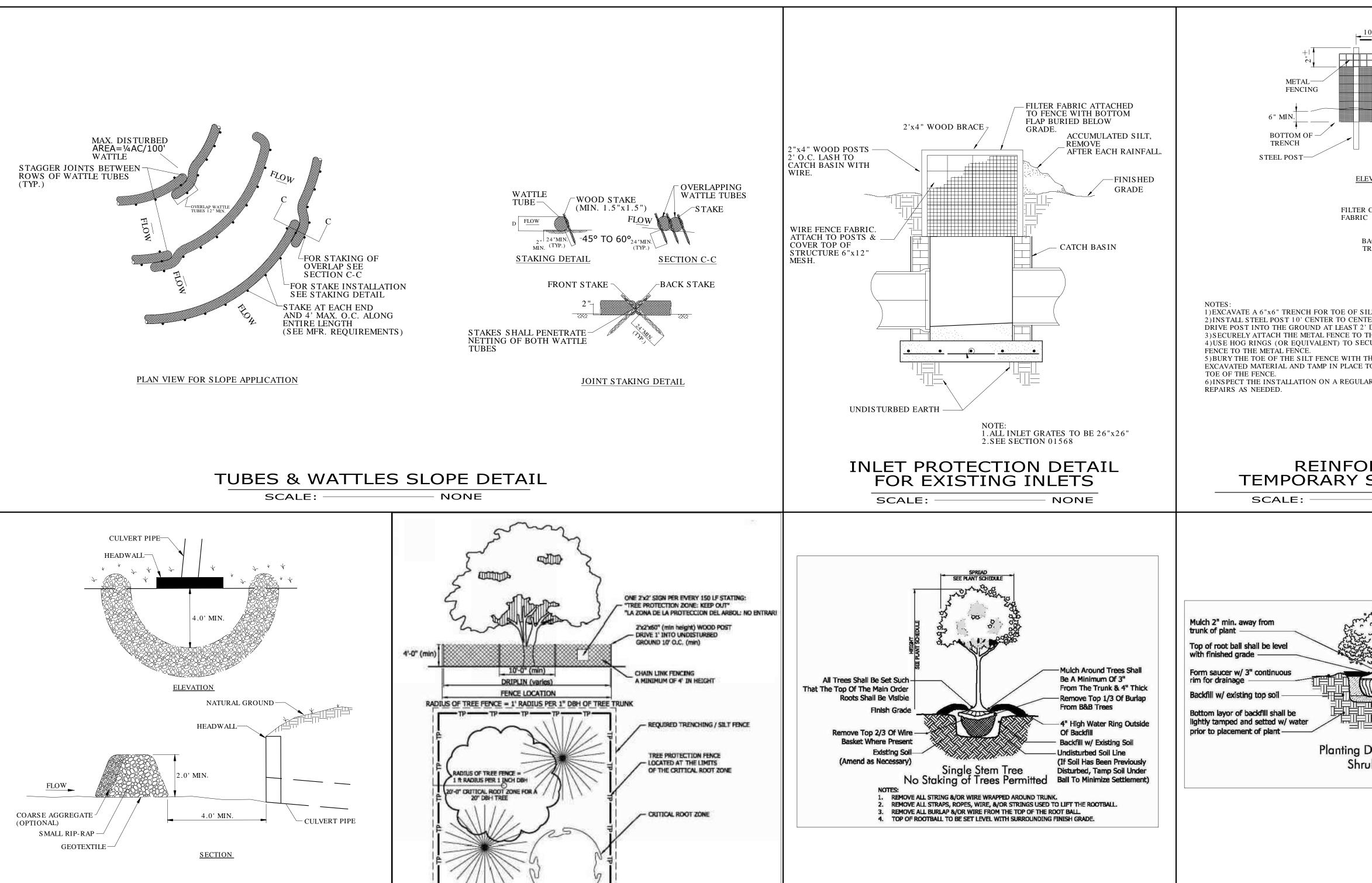
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DATE SCALE
MAY 2015 AS NOTED

SHEET NUMBER

C5.5



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SCALE:

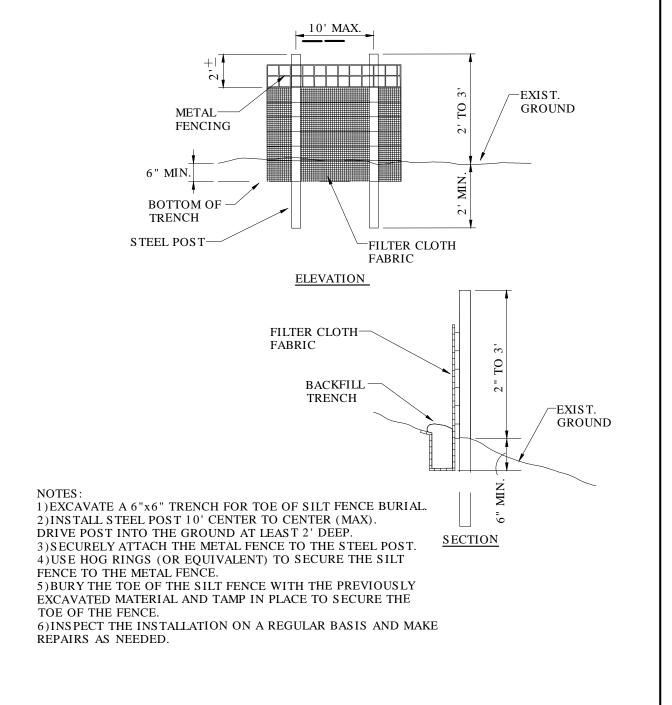
TREE PROTECTION DETAIL

NONE

STONE FILTER RING

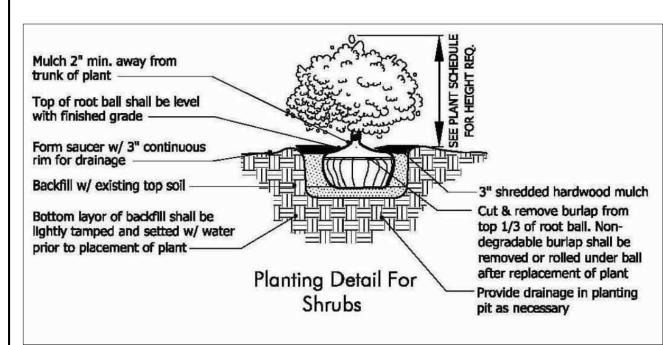
SCALE:

NONE



# REINFORCED TEMPORARY SILT FENCE

NONE



SHRUB PLANTING DETAIL

SCALE:

TREE PLANTING DETAIL

NONE

SCALE:

NONE

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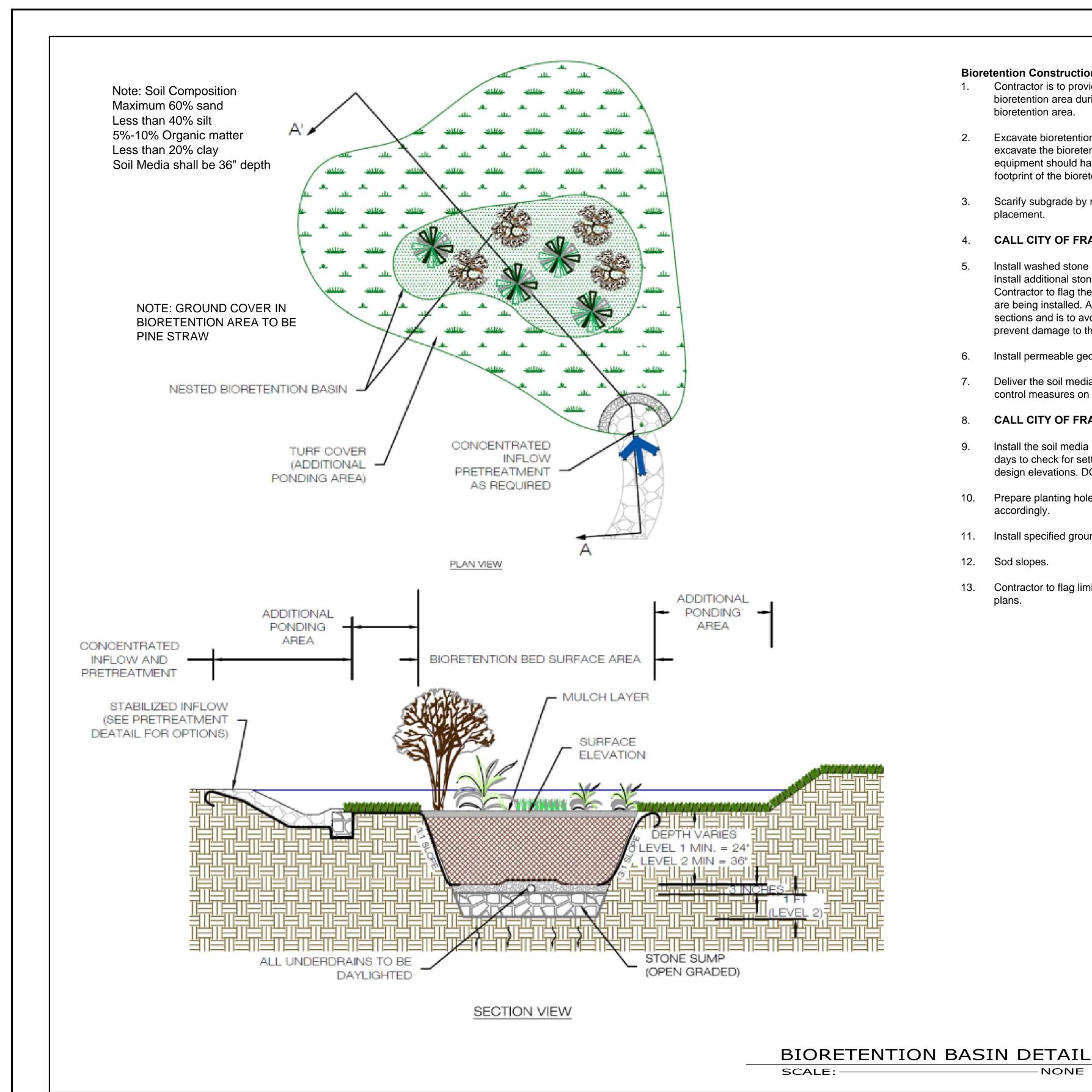
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MISCELLANEOUS DETAILS

PROJECT NUMBER 12410130 **S CALE** DATE MAY 2015 AS NOTED

C5.6

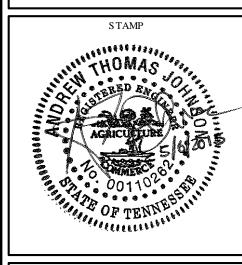
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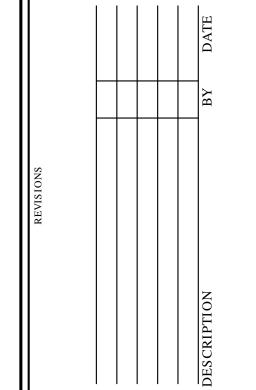


#### **Bioretention Construction Sequencing**

- Contractor is to provide method of diverting runoff flow around the construction of the bioretention area during periods of rainfall to ensure sediment does not enter bioretention area.
- Excavate bioretention area. Excavators or backhoes should work from the sides to excavate the bioretention area to the design depth and dimensions. Excavating equipment should have scoops with adequate reach so they do not sit inside the footprint of the bioretention area.
- Scarify subgrade by ripping the bottom soils to a depth of 12 inches prior to stone
- **CALL CITY OF FRANKLIN INSPECTOR FOR INSPECTION 615-791-3218**
- 5. Install washed stone layer. Install underdrain pipes and connect to the outlet structure. Install additional stone on the underdrain pipes as per the bioretention section detail. Contractor to flag the underdrain locations (3 FT each side) as the additional sections are being installed. A small bobcat loader is to be used for placement of additional sections and is to avoid accessing the areas of the underdrain pipe installation to prevent damage to the perforated pipe.
- Install permeable geotextile fabric.
- 7. Deliver the soil media and store it on plastic sheeting with the appropriate erosion control measures on the downhill and bioretention sides.
- **CALL CITY OF FRANKLIN INSPECTOR FOR INSPECTION 615-791-3218**
- 9. Install the soil media in 12" lifts until the desired top elevation is achieved. Wait a few days to check for settlement and add additional media as needed to achieve the design elevations. DO NOT COMPACT WITH EQUIPMENT.
- 10. Prepare planting holes for any trees and shrubs, install the vegetation and water accordingly.
- 11. Install specified groundcover in bottom of bioretention area.
- 12. Sod slopes.
- 13. Contractor to flag limits of bioretention basin for survey to locate and show on ASBUILT plans.

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MISCELLANEOUS DETAILS

12410130 SCALE AS NOTED MAY 2015

C5.7

SHEET NUMBER

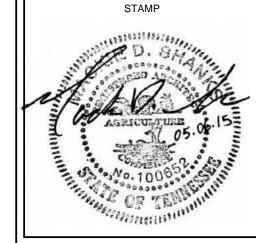


NOTE: THESE ELEVATIONS HAVE BEEN DESIGNED TO MEET THE REQUIREMENTS OF THE CITY OF FRANKLIN'S ARCHITECTURAL DESIGN STANDARDS AND THE APPROVAL OF THE

PLANNING COMMISSION / CITY OF FRANKLIN. CHANGES SHALL NOT BE MADE TO THE APPROVED ELEVATIONS UNLESS APPROVED BY EITHER THE CODES DIRECTOR OR THE

PLANNING COMMISSION.





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Water

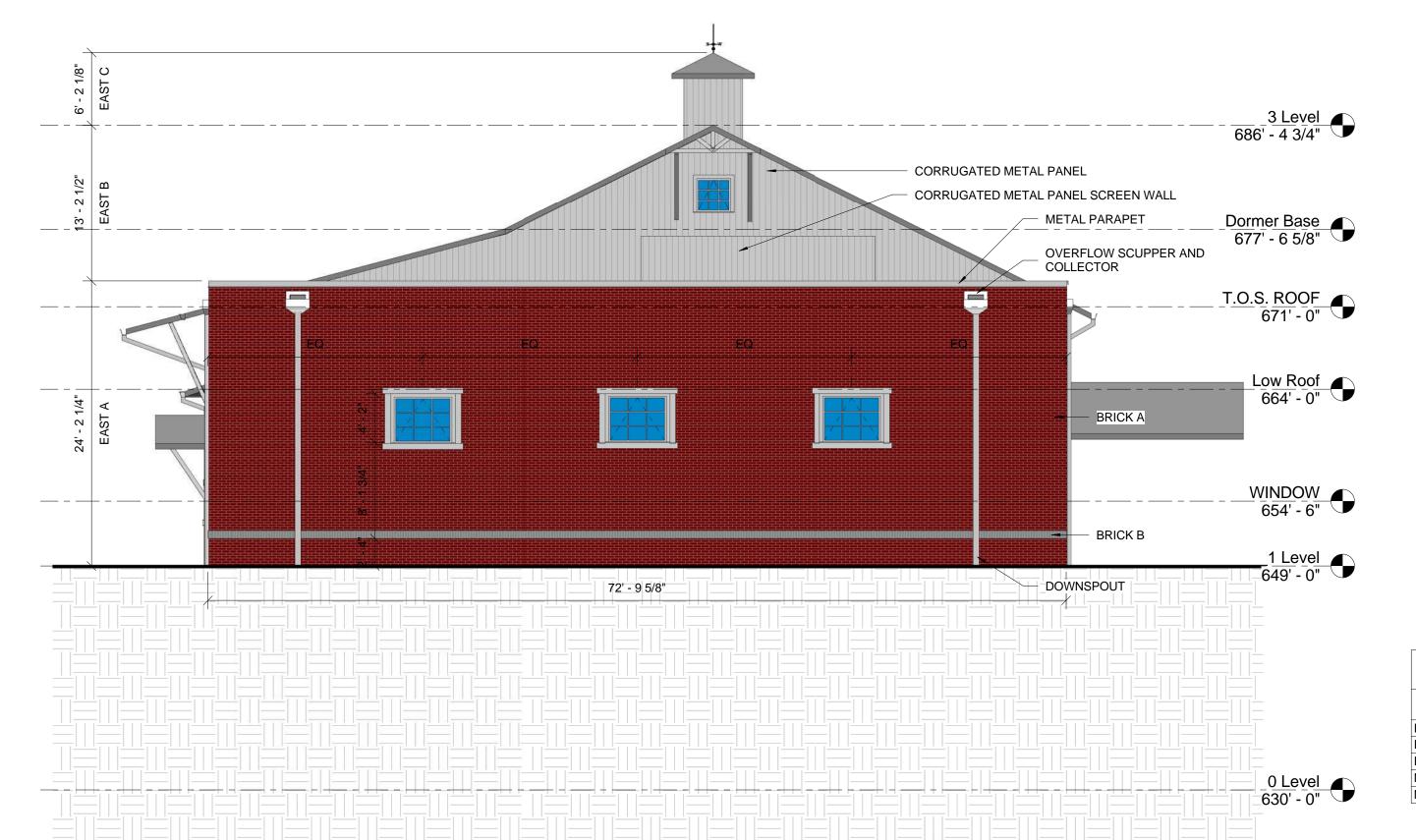
SHEET TITLE

**ELEVATION** 

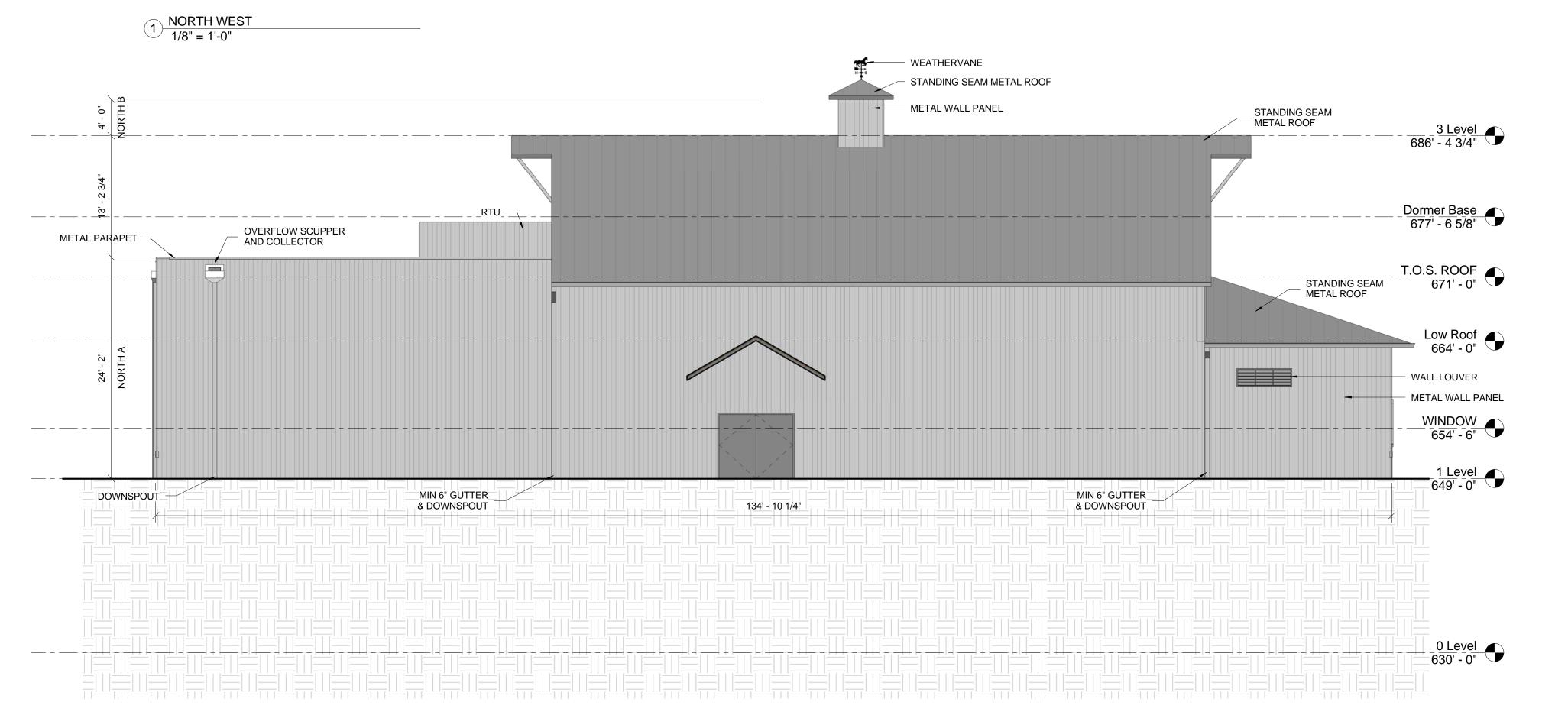
PROJECT NUMBER 12410130

SCALE 1/8" = 1'-0" **MAY 2015** SHEET NUMBER

A2.0



NORTH & EAST WALLS							
ORIENTATION	MATERIAL	TYPE	GROSS OF WALL	NET OF WALL	PERCENTAGE OF NET		
EAST A	BRICK	W-1	1619 SF	1729 SF	94%		
EAST B	METAL PANEL	W-3	479 SF	489 SF	98%		
EAST C	METAL PANEL	W-4	31 SF	31 SF	100%		
NORTH A	METAL PANEL	W-2	2898 SF	2942 SF	98%		
NORTH B	METAL PANEL	W-4	27 SF	27 SF	100%		



2 SOUTH WEST 1/8" = 1'-0"

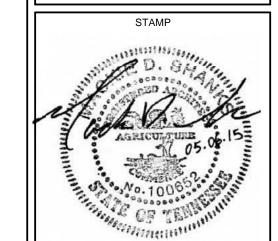


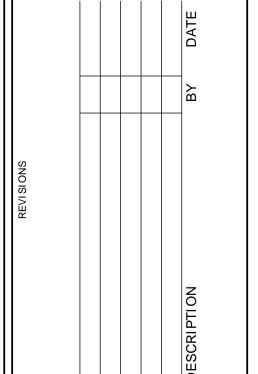
NOTE: THESE ELEVATIONS HAVE BEEN DESIGNED TO MEET THE REQUIREMENTS OF THE CITY OF FRANKLIN'S ARCHITECTURAL DESIGN STANDARDS AND THE APPROVAL OF THE PLANNING COMMISSION / CITY OF FRANKLIN. CHANGES SHALL NOT BE MADE TO THE APPROVED ELEVATIONS UNLESS APPROVED BY EITHER THE CODES DIRECTOR OR THE

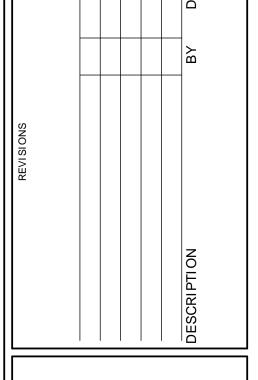
PLANNING COMMISSION.

<u>0 Level</u> 630' - 0"









	Site Plan	42
City of Franklin	reatment Facility, S	)F - Project NO. 5842

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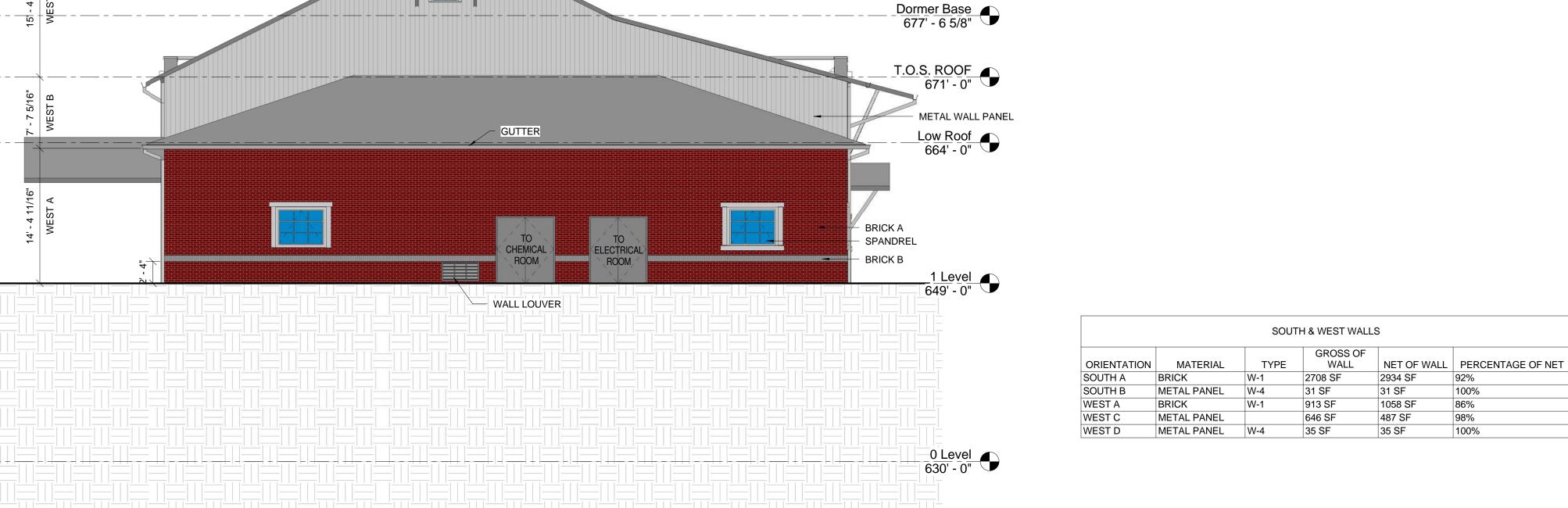
Water

MDS SHEET TITLE

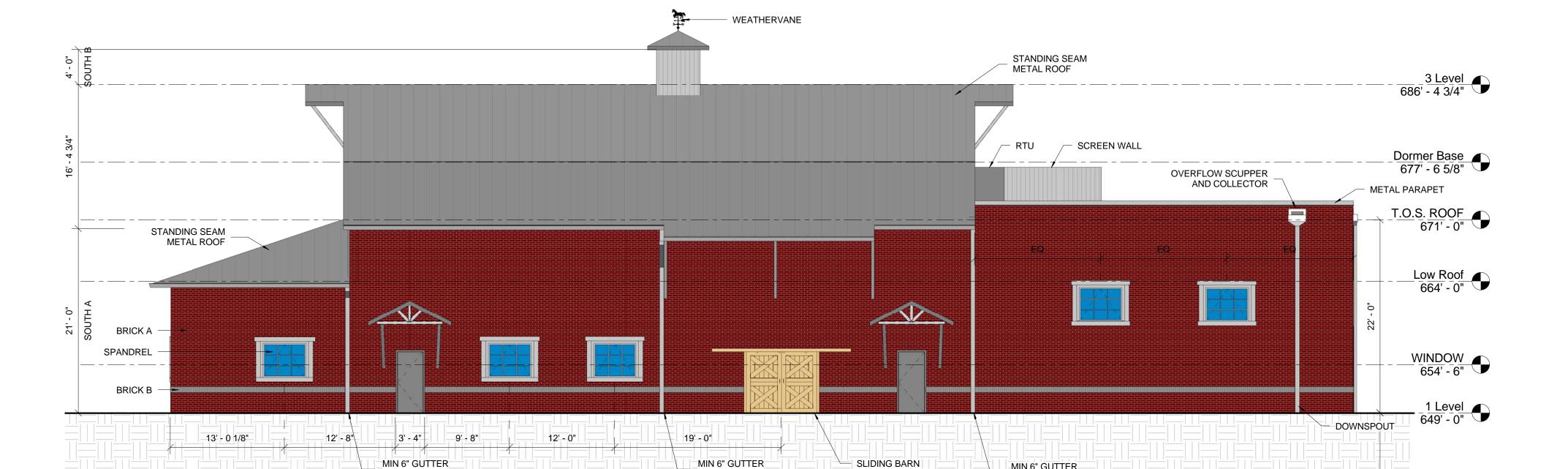
**ELEVATION** 

PROJECT NUMBER 12410130 SCALE

**MAY 2015** 1/8" = 1'-0" SHEET NUMBER A2.1



\_3 Level\_



& DOWNSPOUT

MIN 6" GUTTER

& DOWNSPOUT

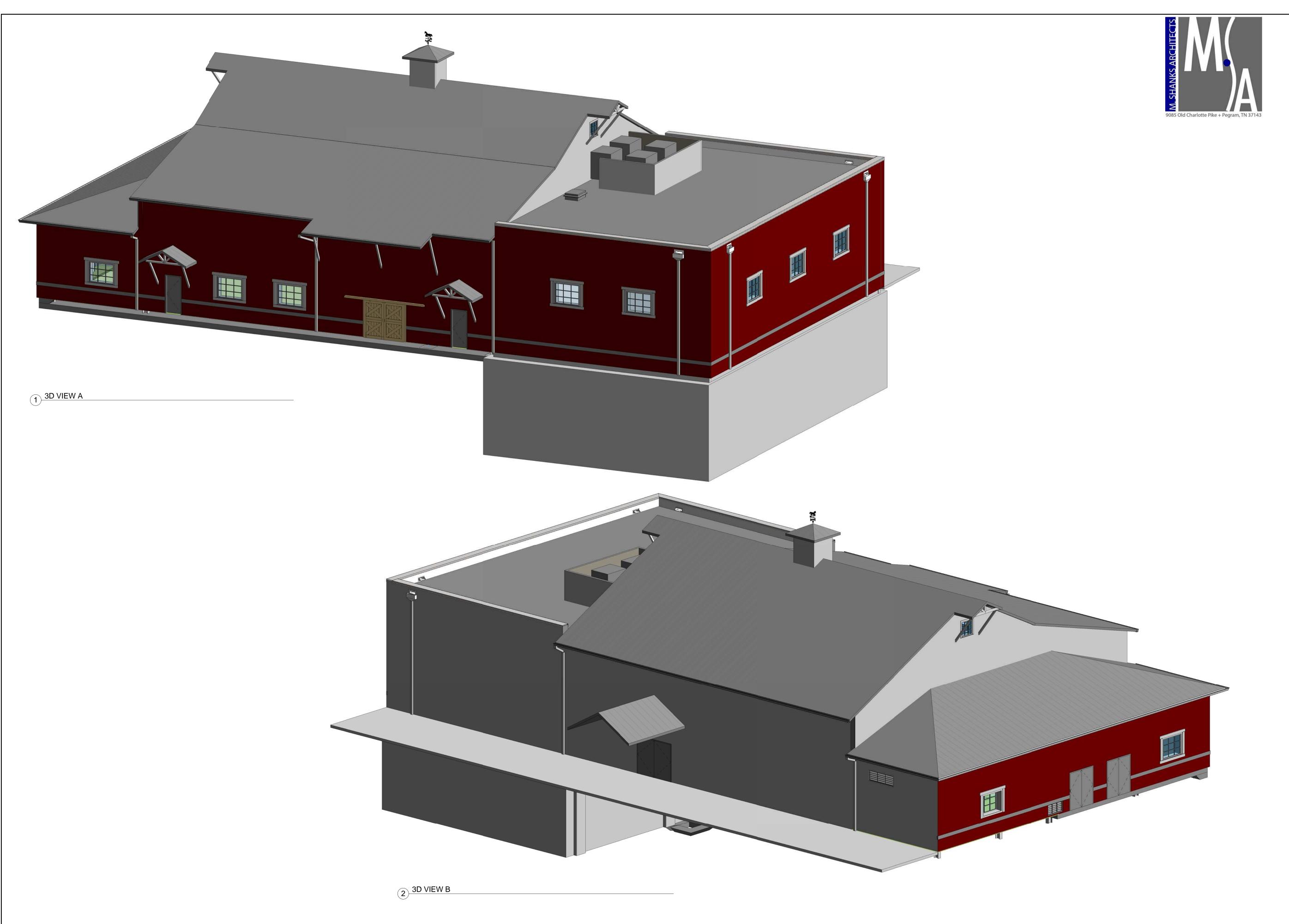
DOOR COVERING

TWO 4'-0" DOORS

NORTH EAST 1/8" = 1'-0"

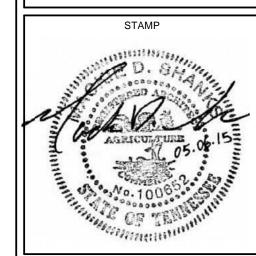
- & DOWNSPOUT

1 SOUTH EAST 1/8" = 1'-0"



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	REVI SI ONS	DESCRIPTION	

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ECKED BY	MDS
Sł	HEET TITLE
3	D VIEW

	NUMBER 0130
DATE <b>MAY 2015</b>	SCALE
SHEET I	NUMBER
A2	2.2

# PLUMBING LEGEND

\*\*NOT ALL SYMBOLS MAY BE USED\*\*

;	SYMBOL	ABB.	DESCRIPTION	SYMB	OL	ABB.	DESCRIPTION
—cw—	CW	CW	DOMESTIC COLD WATER	C+			PIPE TURN DOWN
CW	<u>c</u> w	CW	DOM. COLD WATER (BELOW)	+0	ID OIL		PIPE TURN UP
-CW HP-	CW HP	CW HP	DOMESTIC COLD WATER HIGH PRESSURE	₫			BALL VALVE
—HW—	HW	HW	DOMESTIC HOT WATER	Ճ	$\overline{\Lambda}$		GATE VALVE
HW	HW	HW	DOMESTIC HOT WATER (BELOW)	2			CHECK VALVE
-HW 140-	MW 140	HW 140	DOMESTIC HOT WATER 140	$\boxtimes$			BALANCING VALVE
—HWR—	₹ HWR	HWR	DOMESTIC HOT WATER RECIRC.	Ю́	đ		BUTTERFLY VALVE
HWR	<u> </u>	HWR	DOMESTIC HOT WATER RECIRC. (BELOW)	A	å	PRV	PRESSURE REGULATING VALVE
——D—	D	D	DRAIN	因	\$		SOLENOID VALVE
D	E	D	DRAIN (BELOW)	$\overline{\qquad}$	A		STRAINER
—PD —	PD	PD	PUMP DISCHARGE	D	Ø		REDUCER
PD	ETTPD 3	PD	PUMP DISCHARGE (BELOW)	<b>+</b>	₽		PIPE GUIDE
—SHW—	SHW	SHW	SOFTENED HOT WATER	×	X		ANCHOR
—scw—	SCW	SCW	SOFTENED COLD WATER	φ	Q		PRESSURE GAUGE
—DI—	DI	DI	DEIONIZED WATER SUPPLY	Φ	Ų		THERMOMETER
—DIR—	DIR	DIR	DEIONIZED WATER RETURN	<u> </u>	ı		CAP/PLUG
—RO—	( RO	RO	REVERSE OSMOSIS		7	СО	CLEANOUT (ABOVE CEILING)
—TW—	TW	TW	TEMPERED WATER	1 1			UNION
— G—	<b>G</b> G	G	NATURAL GAS	À		PR	PRESSURE RELIEF VALVE
— TP —	TP	TP	TRAP PRIMER	₹			SHOCK ARRESTOR
— w—	<b>v</b> w	W	WASTE	o <sup>FCO</sup>		FCO	FLOOR CLEAN OUT
W	<u> </u>	W	WASTE (BELOW)			wco	WALL CLEAN OUT
V		V	SANITARY VENT			FD	FLOOR DRAIN
sw	SW	SW	STORM WATER			VTR	VENT THRU ROOF
SW	<u> </u>	SW	STORM WATER (BELOW)			I.E.	INVERT ELEVATION
—OD—	OD	OD	STORM OVERFLOW DRAIN			AFF	ABOVE FINISHED FLOOR
SSD	SSD 3	SSD	SUB-SURFACE DRAINAGE (BELOW)	OD-			OVERFLOW DRAIN STACK NO.
—GW—	<b>GW</b>	GW	GREASE WASTE	II			STACK SIZE
GW	€ <u>G</u> ₩}	GW	GREASE WASTE (BELOW)	P-			SAN. WASTE/VENT STACK NO.
GV	<u> </u>	GV	GREASE VENT	II			STACK SIZE
——AW—	( AW	AW	ACID WASTE	SW-			STORM DOWNSPOUT NO.
AW	<u> </u>	AW	ACID WASTE (BELOW)	"			STACK SIZE
AV	€Ā <u>V</u> }	AV	ACID VENT	AW-	AV-		ACID WASTE/VENT STACK NO.
				"	"		STACK SIZE

			PUMP SO	CHEDULE	: - F	PLU	<b>JMBIN</b>	G S	SYST	EN	S
						HEAD	MOTOR/PUMP	MOTOR	ELECTR	RICAL	
DESIGNATION	SERVICE	TYPE	MANUFACTURER	MODEL NUMBER	GPM	FEET	RPM	HP	VOLTAGE	PHASE	ACCESSORIES / REMARKS
SP-L-1	WASTE SUMP	SUBMERSIBLE			0		0	0	0 V	0	
SP-L-2	WASTE SUMP	SUBMERSIBLE			0		0	0	0 V	0	
1 DISCONNEC	CT AND STARTER										
2 HIGH WATE	R ALARM										
3 LOW SUCTION	ON CUTOFF										
4 CONTROL P	PANEL										

				DOME	STIC \	<b>NATEF</b>	R HEA	TER	SCH	EDU	LE				
			MODEL			RECOVERY		INPUT		ELECTF	RICAL	STORAGI	ETANK		
DESIGNATION	SERVICE	MANUFACTURER	NUMBER	EWT °F	LWT °F	GPH	FUEL	BTU	KW	VOLTAGE	PHASE	MODEL#	GAL.		REMARKS
WH-1-1	EMERGENCY SHOWERS	KELTECH	SNA1083/480D	40	85	N/A	ELECTRIC	0	108	4800 V	3	N/A	0	1,2,3	
1 PROVIDE N	EMA 4X STAINLE	SS STEEL CORRO	SION RESISTANT	CABINET											
2 HEATER TO	FAIL TO COLD \	WATER SUPPLY ON	I ELECTRICAL FA	ILURE											
3 SEE SPECIF	ICATIONS FOR	ADDITIONAL REQU	IREMENTS AND A	ACCESSORIES.	_	_	_	•	•	•		_		•	_

		NATU	JRAL GAS	PRES	SURE F	REGU	JLATIN	IG VALVE SCHEDULE
DESIGNATION	SERVICE	MANUFACTURER	MODEL NUMBER	INLET PRESSURE	OUTLET PRESSURE	VALVE SIZE	SSR VOLUME	REMARKS
GPRV-R-1	RTU-1		300151	2.00 psi	0.50 psi	1/2"	0.00 CF	1
GPRV-R-2	RTU-2	PIETRO FIORENTINI	300151	2.00 psi	0.50 psi	1/2"	0.00 CF	1
GPRV-R-3	RTU-3	PIETRO FIORENTINI	300151	2.00 psi	0.50 psi	1/2"	0.00 CF	1
1 INSTALL IN	ACCESSIBLE	LOCATION.				_		

		<b>WATER I</b>	PRESSUR	ERE	DUCI	NG VAL	/E SC	HEDULE
DESIGNATION	SERVICE	MANUFACTURER	MODEL NUMBER	VALVE SIZE	INLET PRESSURE	OUTLET PRESSURE	MAX. FLOW GPM	REMARKS
PRV-L-1	PROCESS WATER	ZURN	ZW209	10"	130.00 psi	75.00 psi	300.00	1
PRV-L-2	POTABLE WATER	ZURN	ZW209	2"	130.00 psi	75.00 psi	65.00	1
1 SEE PLANS	FOR LOCATION.							

4. 0" size in the drain and vent columns indicates no connection of that service.

# PLUMBING GENERAL NOTES

- CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH THE PROJECT SCOPE, UTILITY CONNECTIONS AND ALL BUILDING SERVICES. EXISTING SITE UTILITIES SHALL BE FIELD LOCATED FOR EXACT LOCATION AND ELEVATION BEFORE BEGINNING CONSTRUCTION OR DEMOLITION.
- CONTRACTOR SHALL COORDINATE EQUIPMENT CONNECTIONS WITH SUPPLIER AND INSTALLATION DRAWINGS. INSTALL EQUIPMENT AND MAKE FINAL CONNECTIONS, FURNISHING CUTOFF VALVES, P-TRAPS, PRVS AND PIPING AS
- COORDINATE WATER, WASTE, VENT, GAS, RAIN WATER AND OTHER PIPING WITH ALL TRADES TO AVOID SPACING AND ROUTING PROBLEMS
- FIXTURES, EQUIPMENT, CONNECTIONS AND PIPING SHALL BE FURNISHED AND INSTALLED TO MEET OR EXCEED STATE AND LOCAL CODES AND REQUIREMENTS.
- PLUMBING VENTS AND STACKS THROUGH ROOF SHALL BE INSTALLED A MINIMUM OF 25 FEET CLEAR OF HVAC
- OUTSIDE AIR INTAKES AND ANY OPERABLE WINDOW OR BUILDING OPENING. INSTALL A WATERPROOFING MEMBRANE AT EACH FLOOR DRAIN AND NON PREFABRICATED SHOWER LOCATED ABOVE SLAB ON GRADE AS SPECIFIED. CONTRACTOR SHALL COORDINATE THE WORK TO AVOID CONFLICT
- VENT AND WASTE STACKS LESS THAN THREE INCHES IN DIAMETER SHALL NOT ROUTE THROUGH THE ROOF. PROVIDE INCREASERS ON PIPING BELOW ROOF.

BETWEEN WATERPROOFING MEMBRANE INSTALLATION AND STRUCTURAL COMPONENT INSTALLATION.

- PENETRATIONS THROUGH WALLS AND FLOORS SHALL BE SLEEVED, SEALED AND FIRESAFED TO MAINTAIN THE INTEGRITY OF THE WALL AND FLOOR UL FIRE RESISTANCE RATING.
- DRAWINGS ARE SCHEMATIC IN NATURE AND SHALL NOT BE SCALED. CONTRACTOR IS RESPONSIBLE FOR
- COORDINATING EXACT ROUTING OF ALL SERVICES WITH EXISTING CONDITIONS AND WITH ALL OTHER TRADES. 10. PROVIDE HOUSEKEEPING PADS UNDER ALL EQUIPMENT. COORDINATE PAD SIZE AND FLOOR DRAIN LOCATIONS
- WITH FINAL EQUIPMENT PAD LOCATIONS. LOCATE DRAINS NEAR EQUIPMENT DRAINS AND DISCHARGE TO AVOID ROUTING OF PIPING ACROSS WALK PATHS. I. SUPPORTS, ANCHOR BOLTS AND HANGERS FOR ALL EQUIPMENT SPECIFIED SHALL CONFORM TO THE SPECIFICATIONS. MISCELLANEOUS STEEL BRACING SUPPORTS AND REINFORCING STEEL NEEDED TO SUPPORT
- EQUIPMENT AND PIPING SYSTEMS SPECIFIED SHALL BE FURNISHED AND INSTALLED AS PART OF THE WORK.
- 12. MAINTAIN ACCESSIBILITY OF ALL EQUIPMENT AND VALVES. PROVIDE ACCESS PANELS AS REQUIRED. COORDINATE PLACEMENT WITH THE ARCHITECT PRIOR TO INSTALLATION.
- 13. INSTALL EXTERIOR WALL HYDRANTS AT 18" ABOVE FINISHED GRADE.
- 14. CONTRACTOR SHALL COORDINATE WITH THE ARCHITECT PRIOR TO CUTTING ANY OPENING IN THE STRUCTURE. COORDINATE SLEEVING OF BEAMS AND CORING OF STRUCTURE WITH STRUCTURAL DRAWINGS AND DETAILS PRIOR TO INSTALLATION.
- 15. CONTRACTOR SHALL PROVIDE TRAP PRIMERS ON ALL FLOOR DRAINS NOT RECEIVING CONSTANT DISCHARGE FROM FIXTURES AND/OR EQUIPMENT AND AS REQUIRED BY STATE AND LOCAL CODES.
- 16. ALL SANITARY AND STORM WATER PIPING BELOW GRADE IN AREAS SUBJECT TO TRAFFIC WITH LESS THAN TWO FEET OF EARTH COVER SHALL BE DUCTILE IRON.
- 17. PROVIDE PIPING EXPANSION JOINTS AT EACH PIPE CROSSING AN INTERIOR BUILDING EXPANSION JOINT.

# FIRE PROTECTION GENERAL NOTES

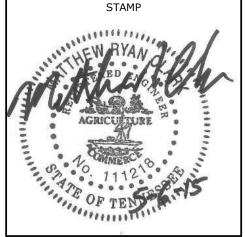
- ALL WORK ON DESIGNATED SPRINKLER/STANDPIPE SYSTEMS SHALL PERFORMED BY A STATE LICENSED FIRE SPRINKLER CONTRACTOR.
- 2. THE CONTRACTOR SHALL PROVIDE SPRINKLER SYSTEM AS SPECIFIED AND AS INDICATED FOR THE ENTIRE FACILITY, UNLESS NOTED OTHERWISE IN SPECIFIC AREAS. PROVIDE AUTOMATIC SPRINKLER ZONING AND/OR AUXILIARY FIRE PROTECTION SYSTEMS AS INDICATED ON THE FIRE PROTECTION DRAWINGS. COMPLETE FIRE SPRINKLER SHOP DRAWINGS, INCLUDING HYDRAULIC CALCULATIONS, AND EQUIPMENT CUT SHEETS SHALL BE SUBMITTED TO THE ENGINEER OF RECORD, THE LOCAL FIRE MARSHAL, AND ANY OTHER AUTHORITIES HAVING JURISDICTION FOR REVIEW AND APPROVAL. NO WORK SHALL BEGIN PRIOR TO OBTAINING APPROVAL FROM ALL AUTHORITIES HAVING JURISDICTION.
- 3. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS PRIOR TO INSTALLATION.
- 4. THE FIRE PROTECTION SYSTEM, EQUIPMENT AND COMPONENTS SHALL BE DESIGNED, HYDRAULICALLY CALCULATED, AND INSTALLED IN FULL ACCORDANCE WITH APPLICABLE SECTIONS OF NFPA 10, 13, AND 101. FINAL SYSTEM DESIGN AND INSTALLATION SHALL ALSO COMPLY WITH ALL LOCAL, COUNTY AND STATE BUILDING CODES ALONG WITH THE REQUIREMENTS OF ANY INSURANCE UNDERWRITERS. WHENEVER A CONFLICT IN CRITERIA OCCURS, THE MORE STRINGENT REQUIREMENT TAKES PRECEDENCE.
- 5. ALL CONTROL VALVES SHALL HAVE TAMPER SWITCHES CONNECTED TO THE FACILITY'S FIRE ALARM SYSTEM. REFER TO FIRE ALARM DRAWINGS FOR FIRE ALARM DEVICES, FIRE DETECTION DEVICES AND INTERFACE POINTS WITH TAMPER SWITCHES, FLOW SWITCHES AND RELATED ITEMS INDICATED ON THE FIRE PROTECTION PLANS.
- 6. DRAWINGS ARE SCHEMATIC ONLY, INDICATE DESIGN INTENT AND SHALL NOT BE SCALED. ACTUAL LOCATION OF PIPE, SPRINKLERS, AND EQUIPMENT SHOWN ON DRAWINGS SHALL BE FIELD VERIFIED BY THE CONTRACTOR. COORDINATE FIRE PIPE ROUTING WITH ALL TRADES TO MAXIMIZE AVAILABLE CLEARANCES AND AVOID FIELD INSTALLATION CONFLICTS. ALL EXPOSED PIPING SHALL BE ROUTED AS CLOSE AS POSSIBLE TO THE BUILDING STRUCTURAL MEMBERS, UNLESS NOTED OTHERWISE.
- MAINTAIN ACCESSIBILITY OF VALVES, FLOW AND TAMPER SWITCHES, INSPECTOR'S TEST STATIONS, FIRE DEPARTMENT CONNECTIONS AND RELATED ITEMS. PROVIDE LABELED ACCESS DOORS WHERE NECESSARY AND AS APPROVED BY THE ARCHITECT.
- 8. ALL CONTROL, DRAIN, AND TEST CONNECTION VALVES SHALL BE PROVIDED WITH PERMANENTLY MARKED WEATHERPROOF METAL OR RIGID PLASTIC IDENTIFICATION SIGNS INDICATING THE FUNCTION AND THE PORTION OF THE BUILDING/FACILITY SERVED.
- 9. INSTALL ALL PIPING, FITTINGS AND JOINTS TO FOLLOW THE GEOMETRY OF THE STRUCTURE. LOCATE EXPOSED PIPING IN PUBLIC AREAS OUT OF DIRECT VIEW WHERE PRACTICAL. EXPOSED PIPING SHALL BE INSTALLED PARALLEL TO ADJACENT BUILDING COMPONENTS.
- 10. COORDINATE INSTALLATION OF PIPING AND EQUIPMENT WITH ELECTRICAL EQUIPMENT TO MAINTAIN WORKING CLEARANCES IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.
- 11. PROVIDE UL APPROVED PENETRATION ASSEMBLIES FOR ALL FIRE PROTECTION PIPING PASSING THROUGH RATED ASSEMBLIES. 12. PROVIDE AUTOMATIC SPRINKLERS BELOW ALL DUCTWORK OR OTHER OBSTRUCTIONS AS REQUIRED BY NFPA 13.
- REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS FOR APPLICABLE LOCATIONS. COORDINATE PLACEMENT WITH ACTUAL INSTALLATION. 13. CONTRACTOR SHALL INSTALL AN INSPECTOR'S TEST, MAIN DRAIN, AND AUXILIARY DRAINS FOR ALL SYSTEMS AS
- REQUIRED. ROUTE ALL TEST AND DRAIN PIPING OUTSIDE OF THE BUILDING, UNLESS NOTED OTHERWISE. 14. THE CONTRACTOR SHALL CONTACT AUTHORITIES HAVING JURISDICTION, ANY INSURANCE UNDERWRITERS, ARCHITECT/ENGINEER AND THE OWNER'S REPRESENTATIVE TO WITNESS THE FINAL ACCEPTANCE TESTING OF ALL
- 15. SEE PLUMBING GENERAL NOTES FOR ADDITIONAL REQUIREMENTS.

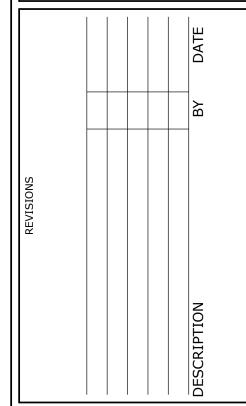
DESIGNATION	FIXTURE DESCRIPTION	COLD WATER	HOT WATER	DRAIN	VENT	NOTES
P-17B	Floor Drain-Equipment Rooms	0"	0"	0"	0"	1. 2.
P-20A	Trap Primer-Floor Drain Connection	1/2"	0"	0"	0"	1. 2. 4.
P-22B	Hose Bibb-Cold Water, Equipment Rooms	3/4"	0"	0"	0"	1. 4.
P-24E	Emergency Shower-Eye/Face Wash Safety Station, Barrier Free	1 1/2"	1"	0"	0"	4.

	FIRE COMPONENT SCHEDULE							
DESIGNATION	DESCRIPTION							
FP-2	FIRE EXTINGUISHER (WALL HUNG-ABC)							
FP-12	FIRE DEPARTMENT CONNECTION (SIAMESE)							

PLUMBING SHEET INDEX								
ORDER	NUMBER	SHEET NAME						
1	P0.0	PLUMBING LEGENDS, INDEX, AND NOTES						
2	PU1.0-07	TREATMENT BUILDING LOWER LEVEL - PLUMBING UNDERGROUND PLAN						
3	P1.0-07	TREATMENT BUILDING LOWER LEVEL - PLUMBING PLAN						
4	P1.1-07	TREATMENT BUILDING UPPER LEVEL - PLUMBING PLAN						
5	P1.2-07	PLUMBING ROOF PLAN						
6	P5.1	PLUMBING DETAILS						
7	P5.2	PLUMBING DETAILS						

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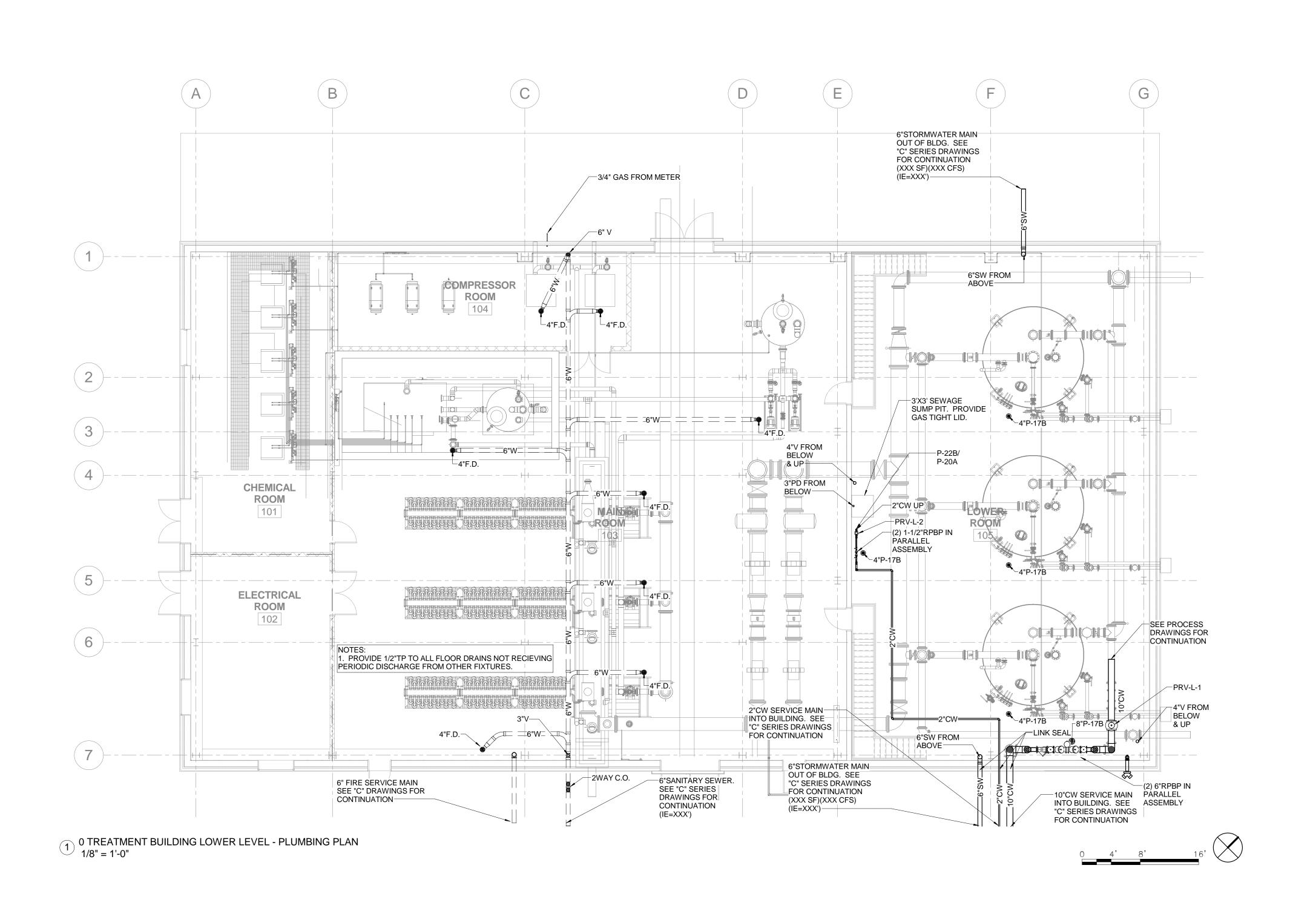
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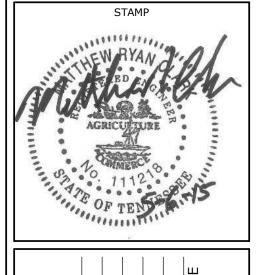
SHEET TITLE

PLUMBING LEGENDS, INDEX, AND NOTES

PROJECT NUMBER 12410130 SCALE MAY 2015 1/8" = 1'-0" SHEET NUMBER







			DATE
			ВУ
REVISIONS			DESCRIPTION

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	ity of Franklin	tment Facility, Site Plan	,   <b>,</b>	Project NO. 5842

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CHECKED BY	SSR

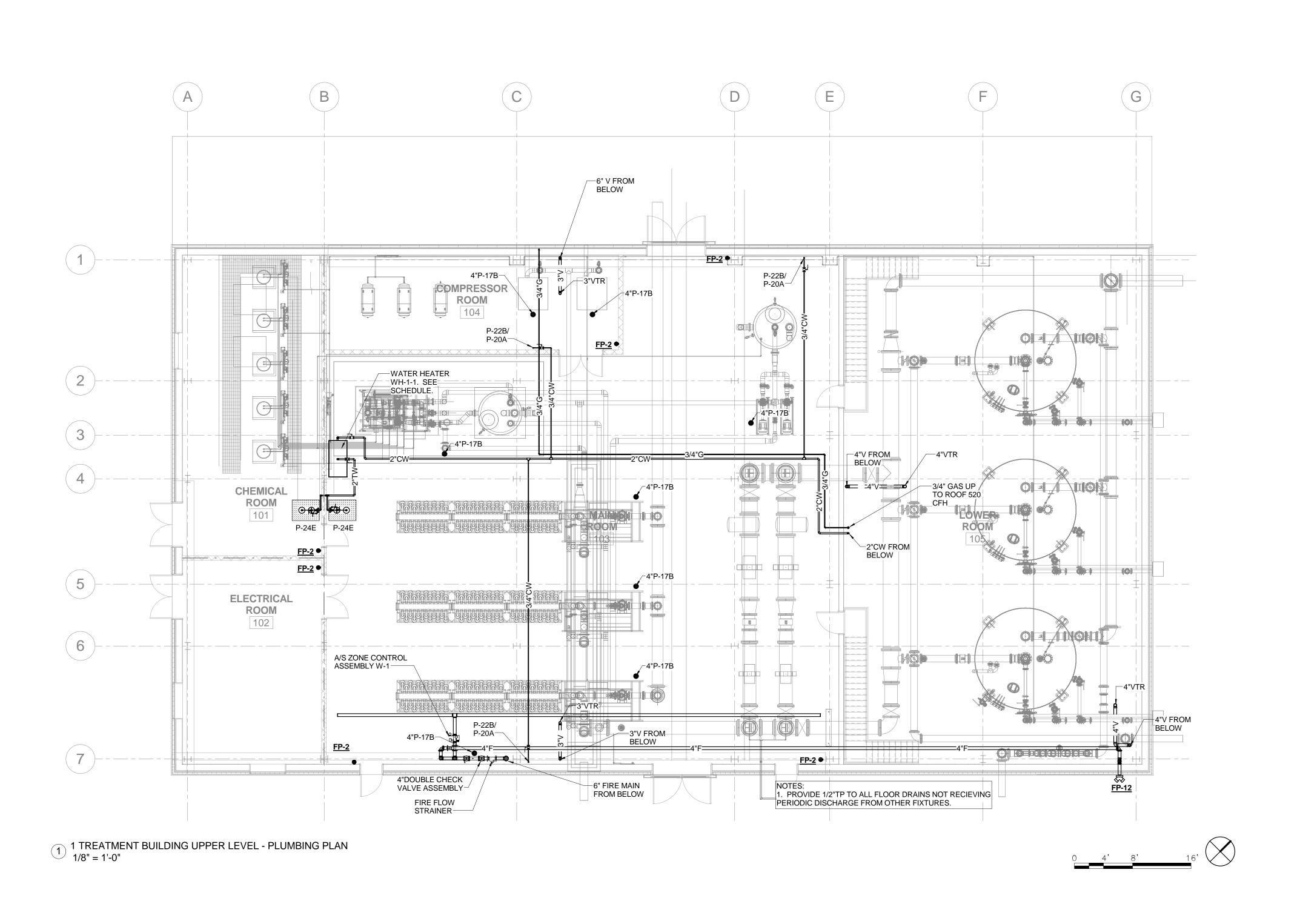
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TREATMENT BUILDING LOWER LEVEL -PLUMBING PLAN

> PROJECT NUMBER 12410130 SCALE

1/8" = 1'-0" **MAY 2015** SHEET NUMBER

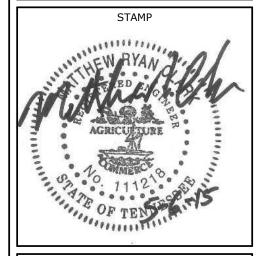
P1.0-07



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		DATE
		ВУ
REVISIONS		DESCRIPTION

City of Franklin
Water Treatment Facility, Site Plan
COF - Project NO. 5842

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CHECKED BY	SSR

SHEET TITLE

TREATMENT BUILDING UPPER LEVEL -PLUMBING PLAN

> PROJECT NUMBER 12410130

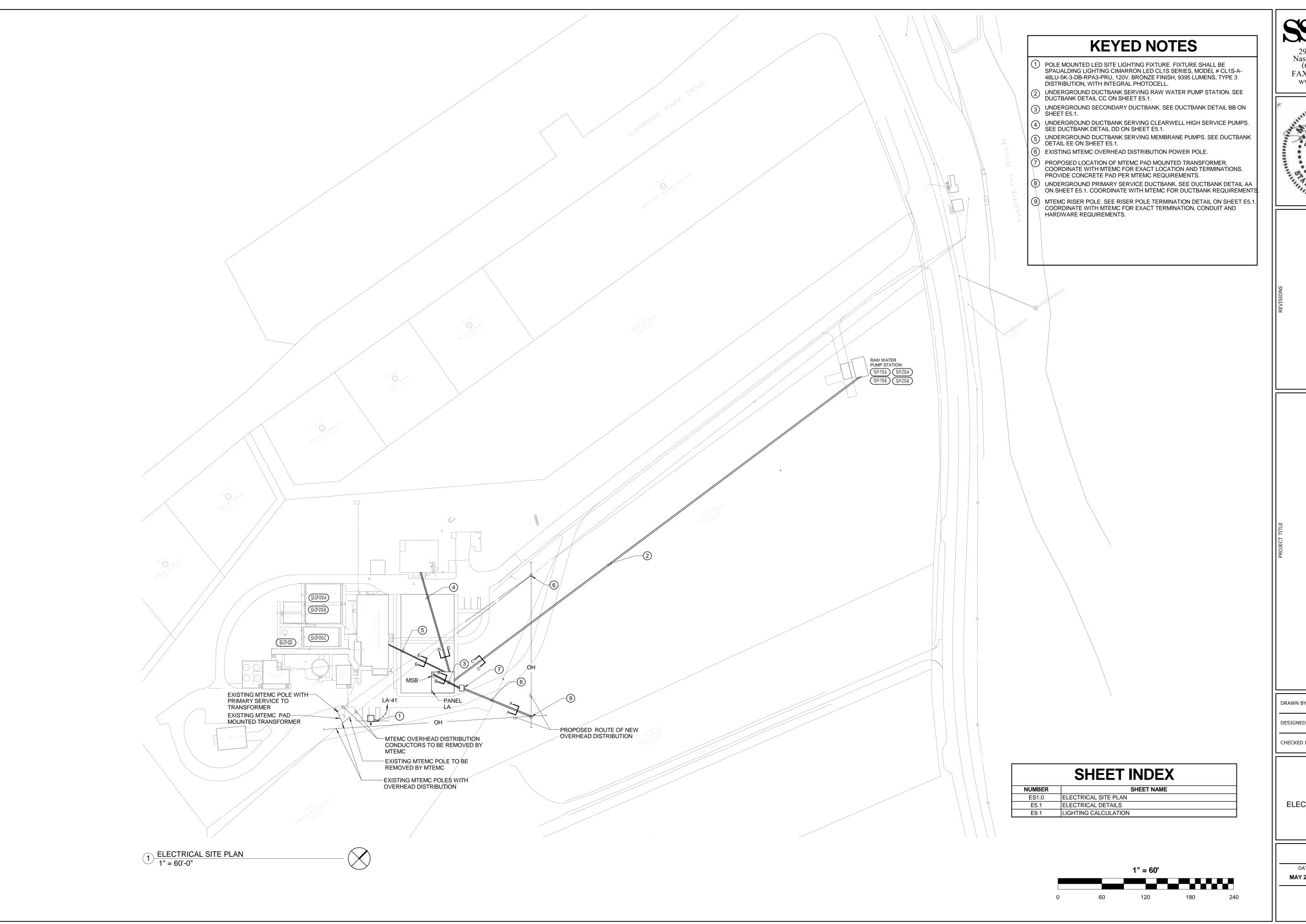
DATE SCALE
MAY 2015 As indicated

SHEET NUMBER

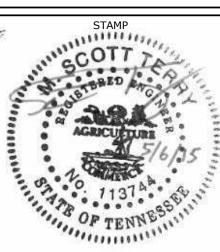
P1.1-07

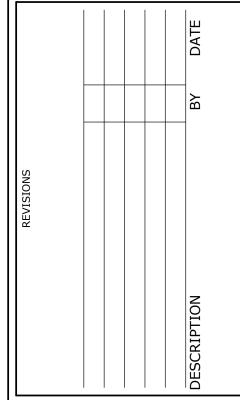
1 HOUR FIRE RATED WALL

WALL RATINGS LEGEND



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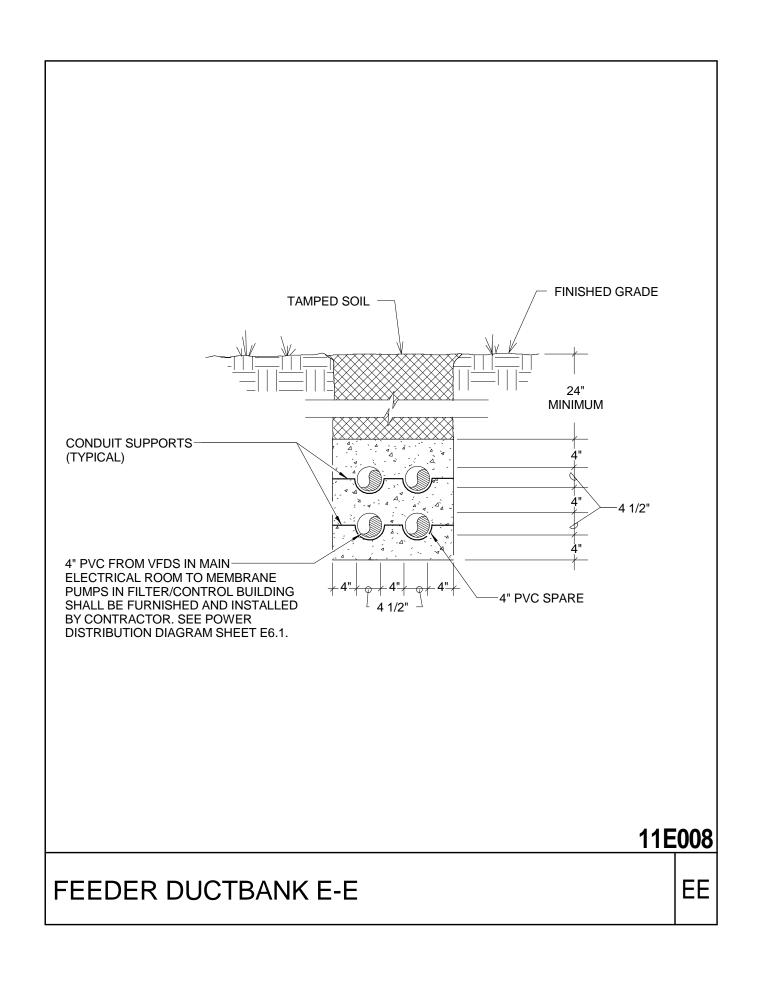


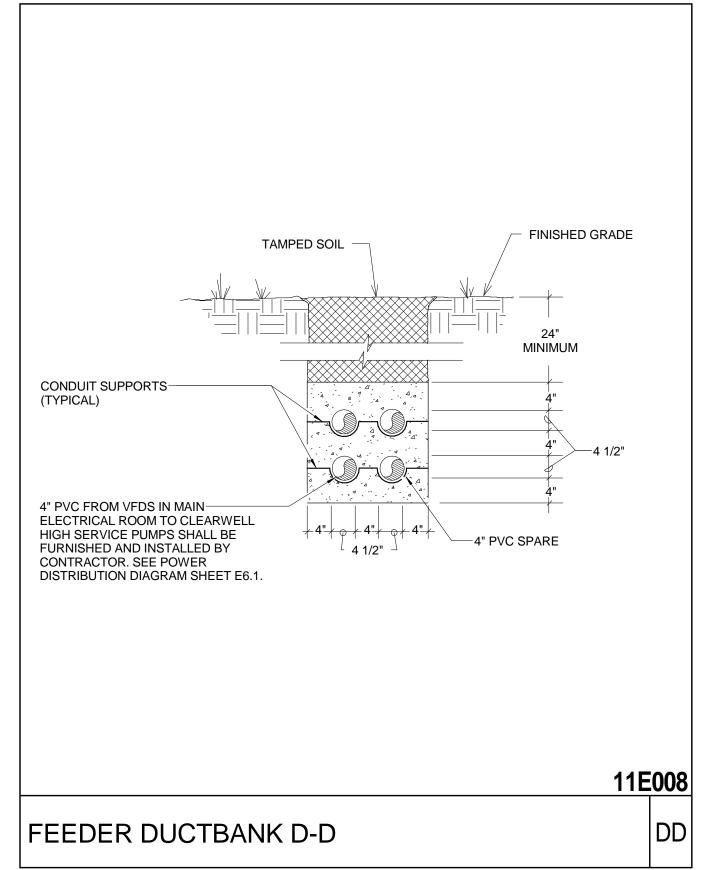
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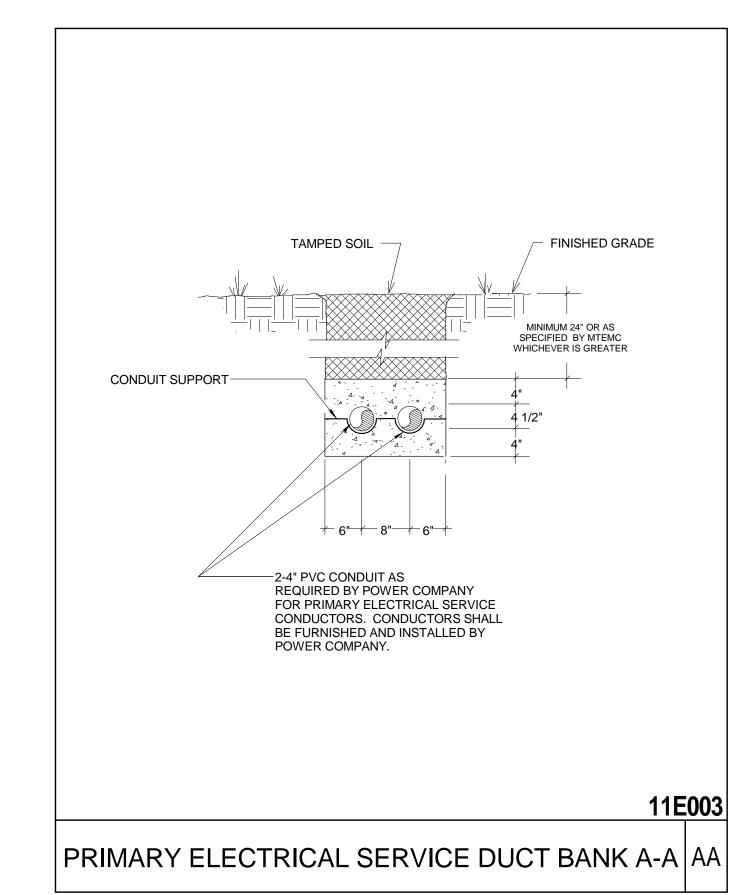
ELECTRICAL SITE PLAN

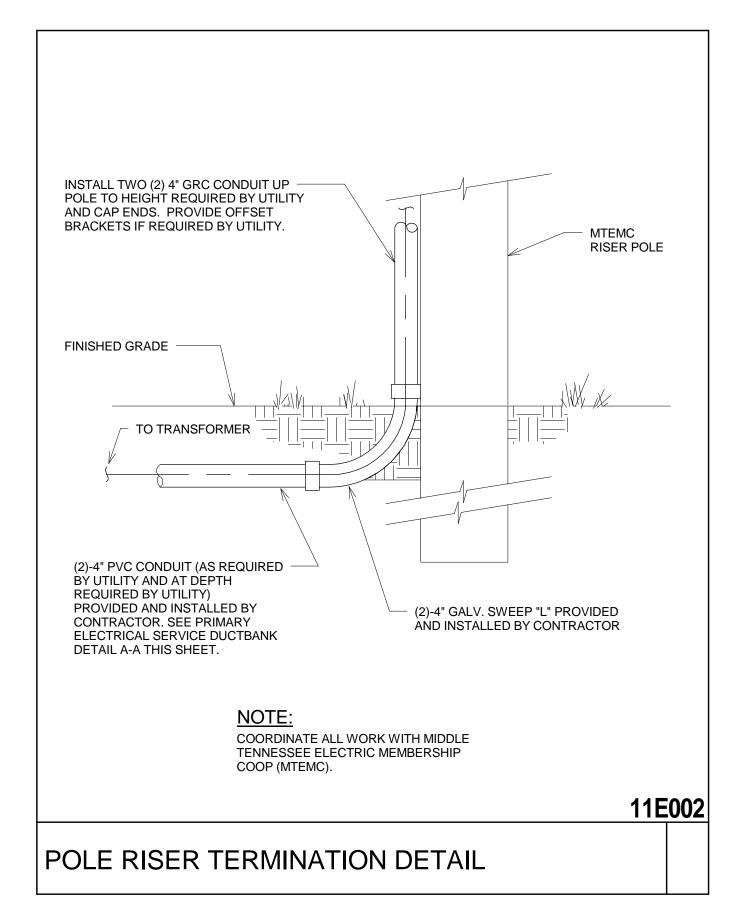
PROJECT NUMBER 12410130 **MAY 2015** 1" = 60'-0"

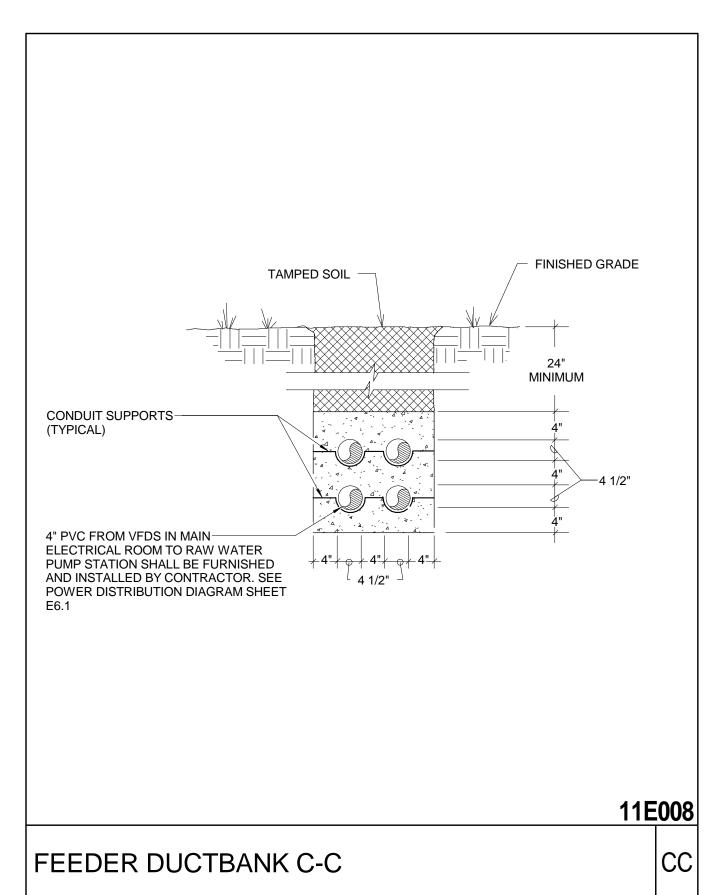
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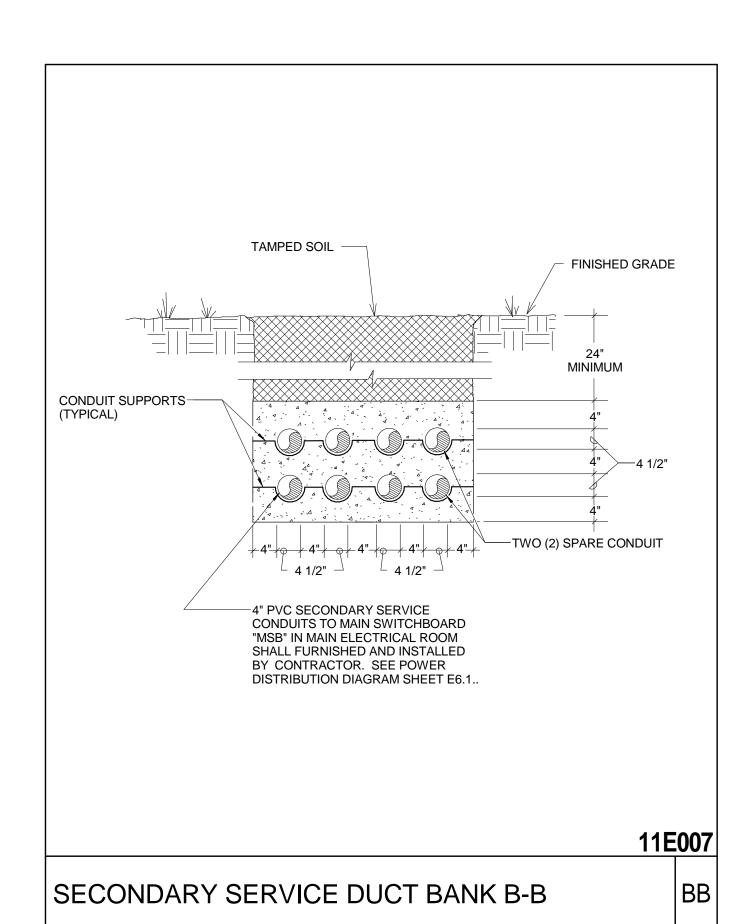


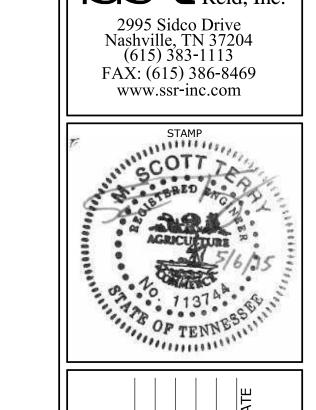


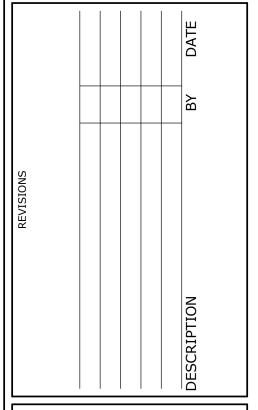












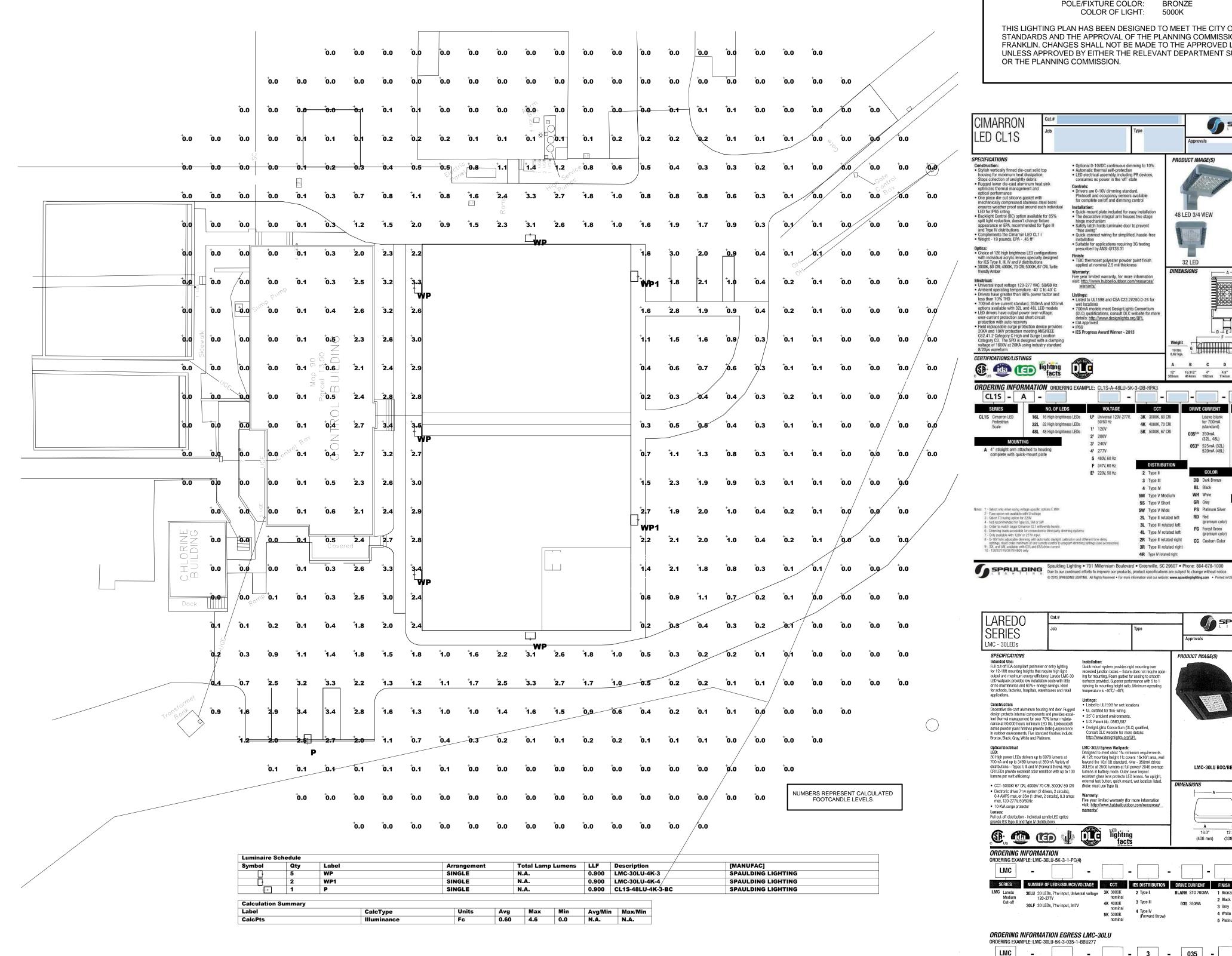


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**ELECTRICAL DETAILS** 

PROJECT NUMBER 12410130 SCALE 1/8" = 1'-0" **MAY 2015** SHEET NUMBER

E5.1



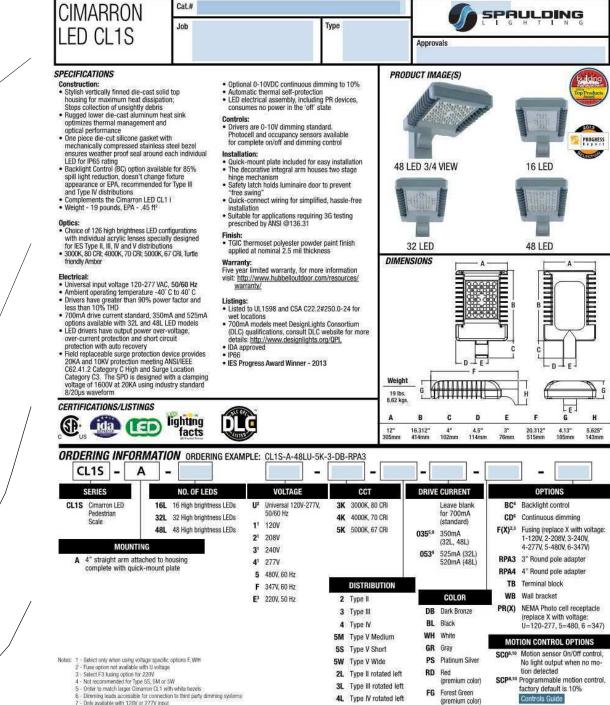
# SITE LIGHTING DATA

` DEVELOPMENT STANDARD: CONVENTIONAL LAND USE: NONRESIDENTIAL ZONING DISTRICT: CIVIC AND INSTITUTIONAL HEIGHT OF PROPOSED BUILDING: 37'-4 3/4" POLE HEIGHT: POLE/FIXTURE COLOR:

COLOR OF LIGHT:

THIS LIGHTING PLAN HAS BEEN DESIGNED TO MEET THE CITY OF FRANKLIN STANDARDS AND THE APPROVAL OF THE PLANNING COMMISSION/CITY OF FRANKLIN. CHANGES SHALL NOT BE MADE TO THE APPROVED LIGHTING PLAN UNLESS APPROVED BY EITHER THE RELEVANT DEPARTMENT SUPERINTENDENT OR THE PLANNING COMMISSION.

5000K





2R Type II rotated right CC Custom Color

HUBBELL Lighting

3R Type III rotated right 4R Type IV rotated right

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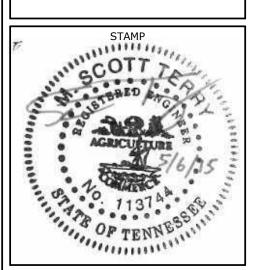
	V <i>G INFOF</i> Example: L			C(4)						
LMC	_			-			-		-	
SERIES	NUM	IBER OF L	EDS/SOURC	E/VOLTAGE	CCT	IES DISTRIBUTION	DRIVE CURRENT	FINISH		OPTIONS
C Lared Mediu Cut-o	im ff	120-277\		niversal voltage	3K 3000K nominal 4K 4000K nominal	2 Type II 3 Type III 4 Type IV	BLANK STD 700MA 035 350MA	1 Bronze 2 Black 3 Gray	PC(X)1	Button photocontrol, replace X with voltage, specify 1-120V, 2-208V 3-240V, 4-277V
					5K 5000K nominal	(Forward throw)		4 White 5 Platinum	F(X)¹	Fusing (specify voltage per footnote)

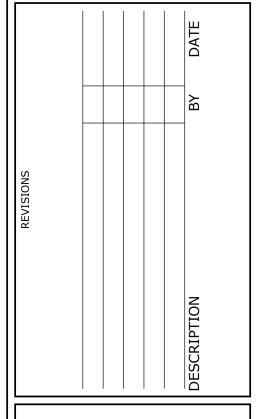
	<i>ERING IN</i> RING EXAMF				SS LMC-3 -1-BBU277	30LU	1												
ı	_MC				-			_		3		-		035				-	
8	ERIES	NUM	BER OF LED	S/SOURC	E/VOLTAGE		CCT		IES DI	STRIB	UTION		DRI	/E CURF	ENT		FINISH		OPTIONS
LMC	Laredo Medium Cut-off		30 LEDs, 43 120-277V 30 LEDs, 43		niversal voltage 47V	4K 5K	3000K nominal 4000K nominal 5000K nominal		3º Tyr	oe III			0	<b>35</b> 350N	MA .	2 3 4	Bronze Black Gray White Platinur	n	
	nd F Replace X with 1-1 versions only Type III	120V, 2-208	IV, 3-240V, 4-277V					Green ou											trol, replace X with voltage, specify 1-120V, 2-208V, 3-240V, 4-277V

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LIGHTING CALCULATION

PROJECT NUMBER 12410130 SCALE **MAY 2015** 1" = 20'-0" SHEET NUMBER

E9.1