SITE PLANS

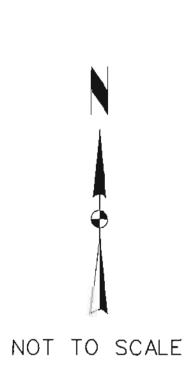
FOR FIRE STATION #3

CITY OF ANKENY, POLK COUNTY, IOWA

OWNER/DEVELOPER

CITY OF ANKENY 220 WEST 1ST STREET ANKENY, IOWA 50023 PAUL MORITZ, P.E. (515) 965-6407

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VICINITY MAP

SVPA

Architects, Inc.

1466 28th Street, Suite 200 West Des Moines, Iowa 50266 515.327.5990 Fax: 515.327.5991

PROJECT INFORMATION

C300 DEMOLITION PLAN

C400 DIMENSION PLAN

C500 GRADING AND EROSION CONTROL PLAN

UTILITY PLAN

C700 PLANTING PLAN

C800 SITE DETAILS

C900 SITE DETAILS

C1000 SITE DETAILS

C1100 SITE DETAILS

C1200 SITE DETAILS

PROJECT INFORMATION

ANKENY FIRE STATION #3 1360 NE 36TH ST. ANKENY, IA 50023

MAY 3 0 2017

CITY OF ANKENY

CITY OF ANKENY 410 WEST FIRST STREET ANKENY, IA 50023

DRAWING ISSUE INFORMATION ISSUE FOR: 95% OWNER REVIEW NOT FOR CONSTRUCTION

ISSUE DATE:

REV DATE REV

MANAGEMENT INFORMATION

PROJECT NO: 16022

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SHEET NUMBER

LEGEND

Features	Existing	Proposed
Spot Elevation Contour Elevation Fence (Barbed, Field, Hog) Fence (Chain Link) Fence (Wood) Fence (Silt) Tree Line Tree Stump	93.0 -93_ -x -x- 	×93.0 ×93
Deciduous Tree \ Shrub	00	
Coniferous Tree \ Shrub	OP	
Communication Overhead Communication Fiber Optic Underground Electric Overhead Electric Gas Main with Size High Pressure Gas Main with Size Water Main with Size Sanitary Sewer with Size Duct Bank Test Hale Location for SUE w/ID		

(x) Denotes the survey quality service level for utilities

Sanitary Manhole	0	400 CT
Storm Sewer with Size Storm Manhole	12" ST	12" ST
Single Storm Sewer Intake		
Double Storm Sewer Intake		
Fire Hydrant	Q	Ω
Fire Hydrant on Building Water Main Valve	,03,	
Water Main Valve	×	⊗
Well	8	0
Utility Pole	-	
Guy Anchor	T	
Utility Pole with Light	0-06	
Utility Pole with Transformer Street Light	D-CF	
Yard Light	0	
Electric Box	DEB	
Electric Transformer	E	
Traffic Sign		
Communication Pedestal Communication Manhole	6	
Communication Handhole	(3)	
Fiber Optic Manhole	0	
Fiber Optic Handhole	ESI G	
Gas Valve		
Gas Manhole	O	
Gas Apparatus	(C)	
Fence Post or Guard Post Underground Storage Tank	UST	
Above Ground Storage Tank	CRETO	
Sign		
Satellite Dish	2	
Mailbox	•	
Soil Boring		◆

JTILITY QUALITY SERVICE LEVELS

QUALITY LEVELS OF UTILITIES ARE SHOWN IN THE PARENTHESES WITH THE UTILITY TYPE AND WHEN APPLICABLE, SIZE. THE QUALITY LEVELS ARE BASED ON THE CI / ASCE 38-02 STANDARD.

QUALITY LEVEL (D) INFORMATION IS DERIVED FROM EXISTING UTILITY RECORDS OR ORAL RECOLLECTIONS. QUALITY LEVEL (C) INFORMATION IS OBTAINED BY SURVEYING AND PLOTTING VISIBLE ABOVE-GROUND UTILITY FEATURES AND USING PROFESSIONAL JUDGMENT IN CORRELATING THIS INFORMATION WITH QUALITY D INFORMATION.

QUALITY LEVEL (B) INFORMATION IS OBTAINED THROUGH THE APPLICATION OF APPROPRIATE SURFACE GEOPHYSICAL METHODS TO DETERMINE THE EXISTENCE AND APPROXIMATE HORIZONTAL POSITION OF

QUALITY LEVEL (A) IS HORIZONTAL AND VERTICAL POSITION OF UNDERGROUND UTILITIES OBTAINED BY ACTUAL EXPOSURE OR VERIFICATION OF PREVIOUSLY EXPOSED SUBSURFACE UTILITIES, AS WELL AS THE TYPE, SIZE, CONDITION, MATERIAL, AND OTHER CHARACTERISTICS.

UTILITY WARNING

THE UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND/OR RECORDS OBTAINED. THE SURVEYOR MAKES NO GUARANTEE THAT THE UTILITIES OR SUBSURFACE FEATURES SHOWN COMPRISE ALL SUCH ITEMS IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UTILITIES OR SUBSURFACE FEATURES SHOWN ARE IN THE EXACT LOCATION INDICATED EXCEPT WHERE NOTED AS QUALITY LEVEL A.

UTILITY CONTACT INFORMATION

UTILITY CONTACT FOR MAPPING INFORMATION SHOWN AS RECEIVED FROM THE IOWA ONE CALL DESIGN REQUEST SYSTEM, TICKET NUMBER 551605192.

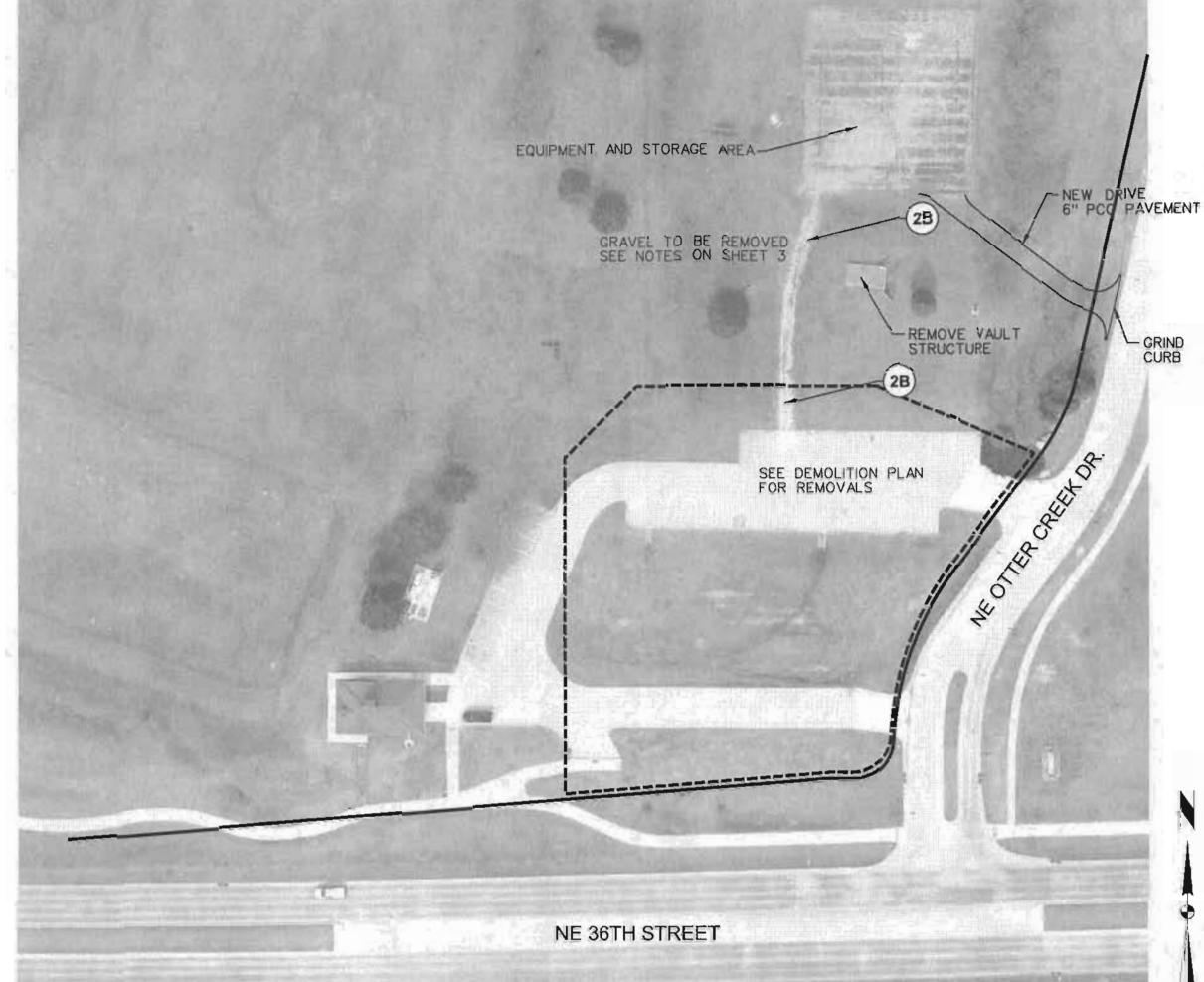
W1-WATER CITY OF ANKENY - WATER SHAWN BUCKNER 515-963-3524 sbuckner@ankenyiowa.gov CITY OF ANKENY - SANITARY SEWER S-SANITARY SEWER ROGER MCFARLAND 515-965-6483 rmcfarland@ankenyiowa.gov MIDAMERICAN ENERGY E1-ELECTRIC CRAIG RANFELD 515-252-6632 MECDSMDesignLocates@midamerican.com C1-COMMUNICATION CENTURYLINK

RAY MONTOYA 515-263-7396 raymond.montoya@centurylink.com MEDIACOM COMMUNICATIONS C2-COMMUNICATION PAUL MAY 515-246-2252 pmay@mediacomcc.com

AUREON NETWORK SERVICES CLEAR PER MAP JEFF KLOCKO 515-830-0445 jeff.klocko@aureon.com

CLEAR PER EMAIL CONSUMERS ENERGY JIMM KIDD 641-754-1642 jkidd@consumersenergy.com





PROJECT SITE

GENERAL NOTES

A. NOTIFY UTILITY PROVIDERS PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITIES AND COORDINATE WITH UTILITY PROVIDERS AS NECESSARY DURING CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR DETERMINING EXISTENCE, EXACT LOCATION, AND DEPTH OF ALL UTILITIES. PROTECT ALL UTILITY LINES AND STRUCTURES NOT SHOWN FOR REMOVAL OR MODIFICATION. ANY DAMAGES TO UTILITY ITEMS NOT SHOWN FOR REMOVAL OR MODIFICATION SHALL BE REPAIRED TO THE UTILITY OWNER'S SPECIFICATIONS AT THE CONTRACTIOR'S EXPENSE.

B. LENGTH OF UTILITIES SHOWN ON PILANS ARE DIMENSIONED FROM CENTERLINE OF STRUCTURE TO CENTERLINE OF STRUCTURE.

C. ALL TRAFFIC CONTROL SHALL BE PROVIDED IN ACCORDANCE WITH REQUIREMENTS SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), WHEN CONSTRUCTION ACTIVITIES OBSTRUCT PORTIONS OF THE ROADWAY, FLAGGERS SHALL BE PROVIDED. FLAGGERS SHALL CONFORM TO THE MUTCO IN APPEARANCE, EQUIPMENT AND ACTIONS.

D. NOTIFY ENGINEER AND THE CITY OF ANKENY AT LEAST 48 HOURS PRIOR TO BEGINNING WORK.

E. ALL FIELD TILES ENCOUNTERED DURING CONSTRUCTION SHALL BE RECONNECTED AND NOTED ACCORDINGLY ON THE AS-BUILT DOCUMENTS.

F. DIMENSIONS, BUILDING LOCATION, UTILITIES AND GRADING OF THIS SITE ARE BASED ON AVAILABLE INFORMATION AT THE TIME OF DESIIGN. DEVIATIONS MAY BE NECESSARY IN THE FIELD. ANY SUCH CHANGES OR CONFLICTS BETWEEN THIS PLAN AND FIELD CONDITIONS ARE TO BE REPORTED TO THE ARCHITECT/ENGINEER PRIOR TO STARTING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LAYOUT VERIFIC/ATION OF ALL SITE IMPROVEMENTS PRIOR TO CONSTRUCTION.

H. CONTRACTOR TO LOAD AND TRANSIPORT ALL MATERIALS CONSIDERED TO BE UNDESIRABLE TO BE INCORPORATED INTO THE PROJECT TO AN APPROVED OFF-SITE WASTE SITE.

I. CONTRACTOR TO STRIP AND STOCKPILE TOPSOIL FROM ALL AREAS TO BE CUT OR FILLED. RESPREAD TO MINIMUM 6" DEPTH ITO FINISH GRADES.

J. ALL PROPOSED CONTOURS AND SPOT ELEVATIONS SHOWN ARE FINISHED GRADES AND/OR TOP OF PAVING SLAB (GUTTER), UNLESS OTHERWISE NOTED.

K. THE CONTRACTOR IS RESPONSIBLE FOR CLEANING DIRT AND DEBRIS FROM NEIGHBORING STREETS, DRIVEWAYS, AND SIDEWALKS CAUSEID BY CONSTRUCTION ACTIVITIES IN A TIMELY MANNER.

L. THE ADJUSTMENT OF ANY EXISTING UTILITY APPURTENANCES TO FINAL GRADE IS CONSIDERED INCIDENTAL TO THE SITE WORK.

M. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING EROSION CONTROL MEASURES AS NECESSARY, CONTRACTOR SHALL AILSO BE RESPONSIBLE FOR MAINTAINING ANY EXISTING EROSION CONTROL MEASURES ON SITE AT THE TIME OF CONSTRUCTION, GRADING AND SQIL EROSION

N. CONTRACTOR TO COORDINATE NATURAL GAS, ELECTRICAL, TELEPHONE AND ANY OTHER FRANCHISE UTILITY SERVICES WITH UTILITY SERVICE PROVIDER AND THE OWNER PRIOR TO CONSTRUCTION.

O. CONTRACTOR TO VERIFY ALL UTILITY CROSSINGS AND MAINTAIN MINIMUM 18" VERTICAL AND HORIZONTAL CLEARANCE BETWEEN UTILITIES. CONTRACTOR TO COORDINATE UTILITY ROUTING TO BUILDING AND VERIFY CONNECTION LOCATIONS AND INVERTS PRIOR TO CONSTRUCTION.

P. CONTRACTOR IS RESPONSIBLE FOR REVIEWING THE SITE PRIOR TO BIDDING TO FAMILIARIZE THEMSELVES WITH THE PROJECT SITE AND IMPROVEMENTS.

Q. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND SECURING ALL PERMITS NECESSARY FOR CONSTRUCTION.

R. CONTRACTOR TO PROVIDE TEMPORARY CHAIN LINK FENCE TO SECURE THE PROJECT WORK SITE IN COORDINATION WITH OWNER.

CONTROL CODE REQUIREMENTS SHALL BE MET BY CONTRACTOR.

S. CONTRACTOR CAN STORE MATERIAL AND EQUIPMENT ON OLD TENNIS COURT PAVEMENT

T. COORDINATE ASR ELECTRIC SERVICIE RELOCATION SO IT DOES NOT OCCUR DURING HIGH DEMAND FOR WATER.

ZONING

R-1: ONE FAMILY RESIDENCE DISTRICT

PROPERTY ADRESS

1360 NE 36TH STREET

ANKENY, IOWA 50021

ERU CALCULATION TOTAL IMPERVIOUS AREA / 4000 59,998/4000 = 15 ERU'S

PARKING REQUIREMENTS

OPERATIONS DESIGNED TO ATTRACT LITTLE OR NO CUSTOMER OR CLIENT TRAFFIC OTHER THAN EMPLOYEES OF THE IENTITY OPERATING THE PRINCIPAL USE:

x 1 SPACE/400 SF = 19.3375 (20 SPACES)

DRIVING RANGE I SPACE PER TEE: 10 TEES (10 SPACES)

ADMINISTRATIVE REDUCTION 10%: - 3 SPACES TOTAL REQUIRED AND PROVIDED: = 27 SPACES

BUILDING DESCRIPTION

BUILDING AREA: 12,260 SF PARKING BAYS: -4,525 SF =7,735 SF

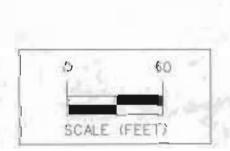
BUILDING HEIGHT = 32 FT

PROPERTY DESCRIPTION

A PART OF LOT 2, OTTER CREEK REDEVELOPMENT PLAT 1, AN OFFICIAL PLAT IN THE CITY OF ANKENY, POLK COUNTY, IOWA, DESCRIBED AS FOLLOWS

BEGINNING AT THE SOUTHEASTERLY CORNER OF SAID LOT 2; THENCE NORTH 89°44'47" WEST ALONG FHE SOUTH LINE OF SAID LOT 2, A DISTANCE OF 14.65 FEET; THENCE SOUTH 85°29'24" WEST CONTINUING ALONG SAID SOUTH LINE, 171.69 FEET; THENCE NORTH 00°00'00" EAST, '213.02 FEET; THENCE NORTH 45°00'00" EAST, 68.54 FEET; THENCE SOUTH 90°00'00" EAST, 154.60 FEET; THENCE SOUTH 64°14'43" EAST, 109.86 FEET TO THE EAST LINE OF SAID LOT 2; THENCE SOUTH 37°18'32" WEST ALONG SAID EAST LINE, 87.41 FEET; THENCE SOUTHWESTERLY CONTINUING ALONG SAID EAST LINE AND ALONG A CURVE CONCAVE SOUTHEASTERLY WHOSE RADIUS IS 187.00 FEET, WHOSE ARC LENGTH IS 115.10 FEET AND WHOSE CHORD BEARS SOUTH 19°40'32" WEST, 113.29 FEET; THENCE SOUTHERLY CONTINUING ALONG SAID EAST LINE AND ALONG A CURVE CONCAVE WESTERILY WHOSE RADIUS IS 25.00 FEET, WHOSE ARC LENGTH IS 38.49 FEET AIND WHOSE CHORD BEARS SOUTH 46°08'53" WEST, 34.80 FEET TO THE POINT OF BEGINNING AND CONTAINING 1.38 ACRES (59,998 S.F.).

PROPERTY SUBJECT TO ANY AND ALL EASEMENTS OF RECORD.



BENCHMARKS

NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88 - GEOID12A) IARTH DERIVED - US SURVEY FEET

BURY BOLT ON WATROUS HYDRANT SOUTHEAST OF CONCESSIONS

BUILDING, SOUTHWEST SIDE OF SITE.

CUT TRIANGLE AT NORTHEAST CORNER OF CONCRETE TRANSFORMER PAD NORTH OF PARKING LOT, NORTH SIDE OF SITE.

CONTROL POINTS

ANKENY ELLIPSE LOCAL COORDINATE SYSTEM NAD83(2011)(EPOCH 2010.00) IARTH DERIVED - US SURVEY FEET

CP1 N=71669.51 E=58140.63
CUT "X" ON BACK OF WEST CURB RADIUS AT NOSE OF ISLAND IN NE 36TH STREET EAST OF NE OTTER CREEK DRIVE, SOUTHEAST

CP2 N=71657.95 E=57708.50 CUT "X" ON BACK OF EAST CURB RADIUS AT NOSE OF ISLAND IN NE 36TH STREET WEST OF NE MILAN AVENUE, SOUTHWEST CORNER OF SITE.

CP3 N=71913.68 E=57833.90 CUT "X" ON BACK OF CURB AT SOUTHWEST CORNER OF PARKING LOT, APPROXIMATE CENTER OF SITE.

CP4 N=72246.12 E=58057.72 1/2" REBAR WITH RED CAP 5' NORTH OF CENTER OF OLD ASPHALT TENNIS COURT, NORTH SIDE OF SITE.

CP5 N=71657.95 E=57708.50
CUT "X" IN WEST EDGE OF CONCRETE SIDEWALK ON EAST SIDE OF NE OTTER CREEK DRIVE EAST OF PARKING LOT ENTRANCE,

SVPA

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ELECTRICAL ENGINEER KCL ENGINEERING 218 1/2 5th STREET WEST DES MOINES, IA 50265 TEL: 515.724.7938 FAX: \$15.724.7934

CL-NT LOGO

PROJECT INFORMATION

ANKENY FIRE STATION #3 1360 NE 36TH ST. ANKENY, IA 50023

CITY OF ANKENY

410 WEST FIRST STREET ANKENY, IA 50023

DRAWING ISSUE INFORMATION ISSUE FOR: 95% OWNER REVIEW

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REV DATE | 6EEV

MANAGEMENT INFORMATION PROJECT NO: 16022

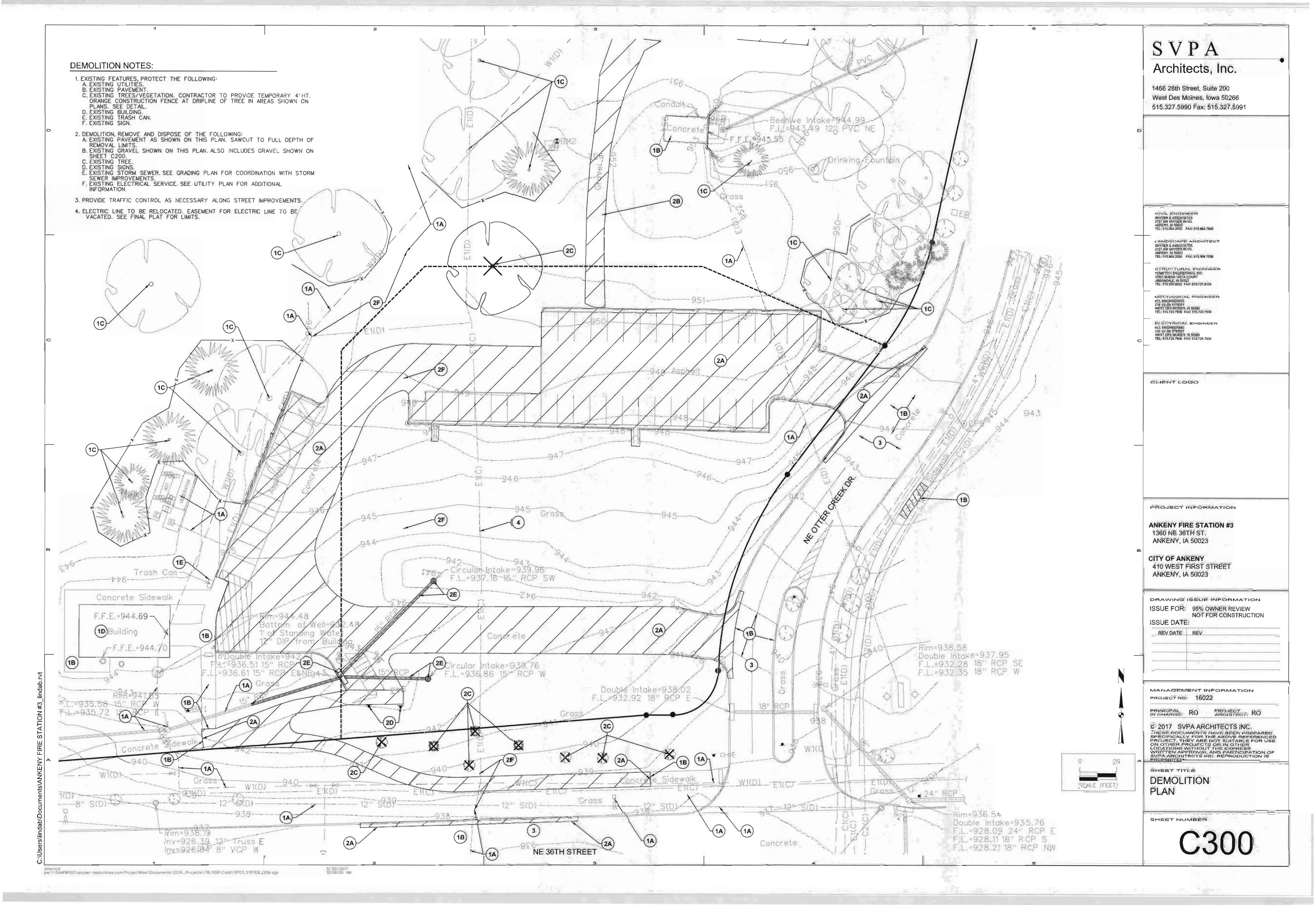
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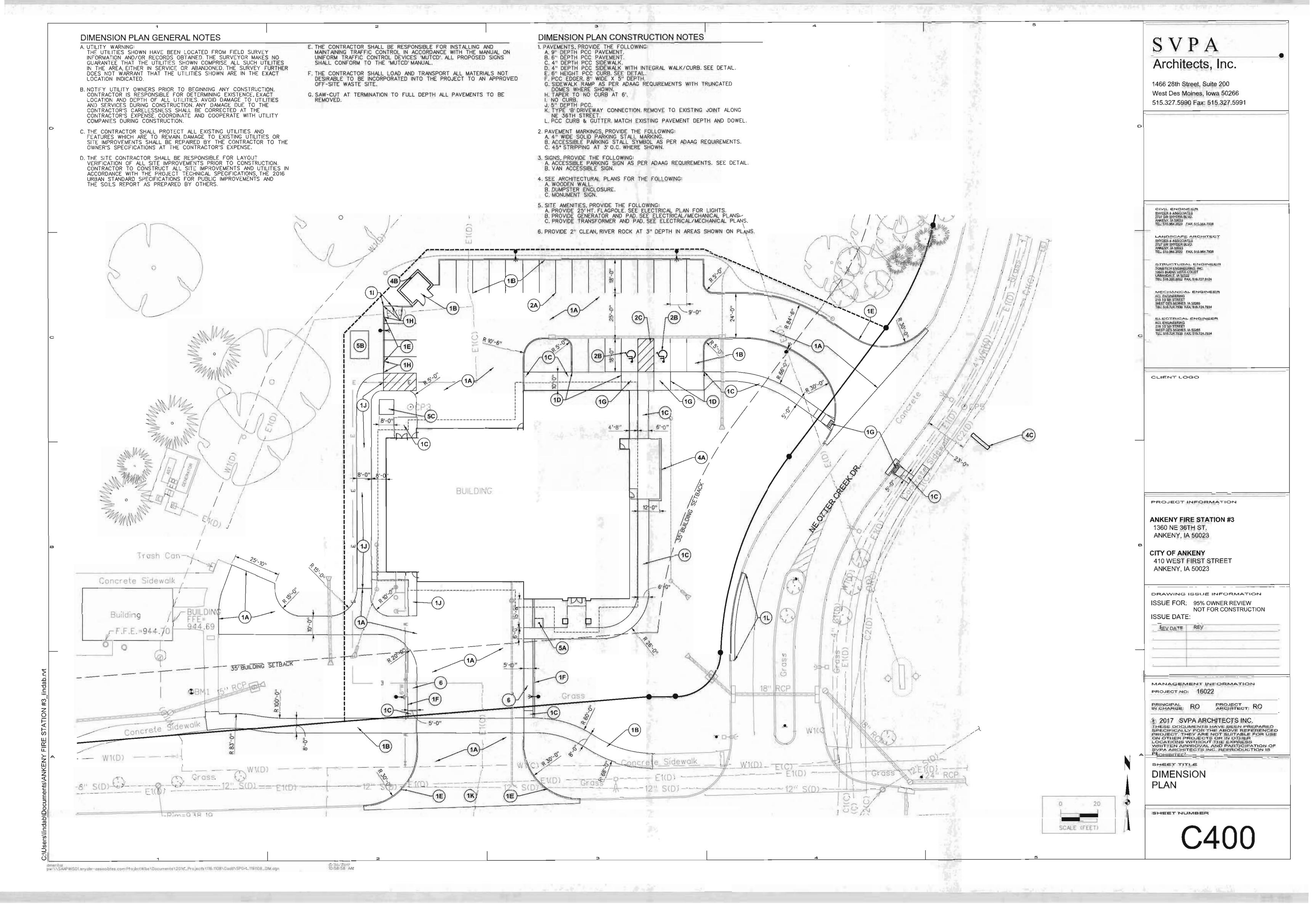
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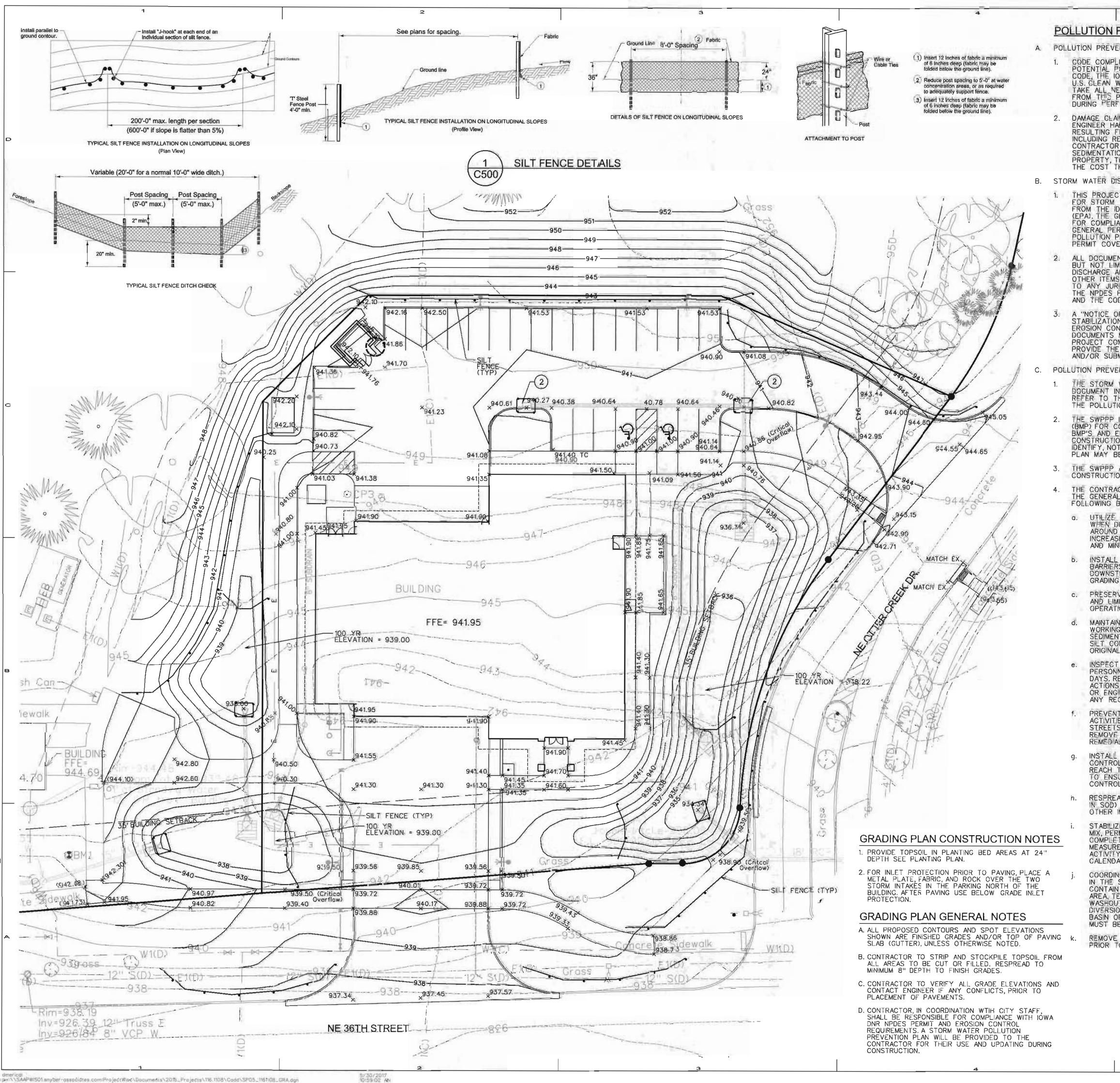
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SHEET TITLE PROJEC1 **INFORMATION**

SHEET NUMBER

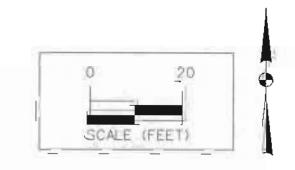






POLLUTION PREVENTION NOTES

- A. POLLUTION PREVENTION AND EROSION PROTECTION
 - CODE COMPLIANCE: THE CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH ALL POTENTIAL POLLUTION AND SOIL EROSION CONTROL REQUIREMENTS OF THE IOWA CODE, THE IOWA DEPARTMENT OF NATURAL RESCOURCES (IDNR) NPDES PERMIT, THE U.S. CLEAN WATER ACT AND ANY LOCAL ORDINANCES. THE CONTRACTOR SHALL TAKE ALL NECESSARY STEPS TO PROTECT AGAINST EROSION AND POLLUTION FROM THIS PROJECT SITE AND ALL OFF-SITE BIORROW OR DEPOSIT AREAS DURING PERFORMANCE OR AS A RESULT OF PERFORMANCE.
 - DAMAGE CLAIMS: THE CONTRACTOR WILL HOLD THE OWNER AND ARCHITECT / ENGINEER HARMLESS FROM ANY AND ALL CLAIMIS OF ANY TYPE WHATSOEVER RESULTING FROM DAMAGES TO ADJOINING PUBLIC OR PRIVATE PROPERTY, INCLUDING REASONABLE ATTORNEY FEES INCURRED TO OWNER. FURTHER, IF THE CONTRACTOR FAILS TO TAKE NECESSARY STEP'S TO PROMPTLY REMOVE EARTH SEDIMENTATION OR DEBRIS WHICH COMES ONTO ADJOINING PUBLIC OR PRIVATE PROPERTY, THE OWNER MAY, BUT NEED NOT, REMOVE SUCH ITEMS AND DEDUCT THE COST THEREOF FROM AMOUNTS DUE TO THE CONTRACTOR.
- B. STORM WATER DISCHARGE PERMIT
 - THIS PROJECT REQUIRES COVERAGE UNDER THE NPDES GENERAL PERMIT NO. 2 FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITIES FROM THE IDNR, AS REQUIRED BY THE ENVIRONIMENTAL PROTECTION AGENCY (EPA). THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS ARE RESPONSIBLE FOR COMPLIANCE WITH AND FULFILLMENT OF ALL REQUIREMENTS OF THE NPDES GENERAL PERMIT NO. 2 NCLUDING CREATING OR; MAINTAINING THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AND POSSIBLY OBTAINING THE GENERAL PERMIT COVERAGE FROM THE IDNR.
 - ALL DOCUMENTS RELATED TO THE STORM WATER DISCHARGE PERMIT, INCLUDING, BUT NOT LIMITED TO, THE NOTICE OF INTENT, P'ROOF OF PUBLICATIONS, DISCHARGE AUTHORIZATION LETTER, CURRENT SWPPP, SITE INSPECTION LOG, AND OTHER ITEMS, SHALL BE KEET ON SITE AT ALL TIMES AND MUST BE PRESENTED TO ANY JURISDICTIONAL AGENCIES UPON REQUEST. FAILURE TO COMPLY WITH THE NPDES PERMIT REQUIREMENTS IS A VIOLATION OF THE CLEAN WATER ACT AND THE CODE OF IOWA.
 - A "NOTICE OF DISCONTINUATION" MUST BE FILED WITH THE IDNR UPON FINAL STABILIZATION OF THE DISTURBED SITE AND REIMOVAL OF ALL TEMPORARY EROSION CONTROL MEASURES. ALL PLANS, INSPECTION REPORTS, AND OTHER DOCUMENTS MUST BE RETAINED FOR A PERIOD OF THREE YEARS AFTER PROJECT COMPLETION. THE CONTRACTOR SHALL RETAIN A RECORD COPY AND PROVIDE THE ORIGINAL DOCUMENTS TO THE OWNER UPON PROJECT ACCEPTANCE AND/OR SUBMITTAL OF THE NOTICE OF DISCONTINUATION.
- C. POLLUTION PREVENTION PLAN:
 - THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) IS A SEPARATE DOCUMENT IN ADDITION TO THESE PLAN DRAWINGS. THE CONTRACTOR SHOULD REFER TO THE SWPPP FOR ADDITIONAL REQUIREMENTS AND MODIFICATIONS TO THE POLLUTION PREVENTION PLAN MADE DURING CONSTRUCTION.
 - THE SWPPP ILLUSTRATES GENERAL MEASURES AND BEST MANAGEMENT PRACTICES (BMP) FOR COMPLIANCE WITH THE PROJECT'S NIPDES PERMIT COVERAGE. ALL BMP'S AND EROSION CONTROL MEASURES REQUIRED AS A RESULT OF CONSTRUCTION ACTIVITIES ARE THE RESPONSIBILITY OF THE CONTRACTOR TO IDENTIFY, NOTE AND IMPLEMENT. ADDITIONAL BMP'S FROM THOSE SHOWN ON THE PLAN MAY BE REQUIRED.
 - THE SWPPP AND SITE MAP SHOULD BE EXPEDITIOUSLY REVISED TO REFLECT CONSTRUCTION PROGRESS AND CHANGES AT THE PROJECT SITE.
 - THE CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH ALL REQUIREMENTS OF THE GENERAL PERMIT AND SWPPP, INCLUDING, BIUT NOT LIMITED TO, THE FOLLOWING BMP'S UNLESS INFEASIBLE OR NOT APPLICABLE:
 - UTILIZE OUTLET STRUCTURES THAT WITHDIRAW WATER FROM THE SURFACE WHEN DISCHARGING FROM BASINS, PROVIDE AND MAINTAIN NATURAL BUFFERS AROUND SURFACE WATERS, DIRECT STORM WATER TO VEGETATED AREAS TO INCREASE SEDIMENT REMOVAL AND MAXIMIZ'S STORM WATER INFILTRATION, AND MINIMIZE SOIL COMPACTION.
 - INSTALL PERIMETER AND FINAL SEDIMENT CONTROL MEASURES SUCH AS SILT BARRIERS, DITCH CHECKS, DIVERSION BERMS, OR SEDIMENTATION BASINS DOWNSTREAM OF SOIL DISTURBING ACTIVITIES PRIOR TO SITE CLEARING AND GRADING OPERATIONS.
 - PRESERVE EXISTING VEGETATION IN AREAS; NOT NEEDED FOR CONSTRUCTION AND LIMIT TO A MINIMUM THE TOTAL AREA DISTURBED BY CONSTRUCTION OPERATIONS AT ANY TIME.
 - MAINTAIN ALL TEMPORARY AND PERMANENT EROSION CONTROL MEASURES IN WORKING ORDER, INCLUDING CLEANING, REPAIRING, REPLACEMENT, AND SEDIMENT REMOVAL THROUGHOUT THE PERIMIT PERIOD. CLEAN OR REPLACE SILT CONTROL DEVICES WHEN THE MEASURES HAVE LOST 50% OF THEIR
 - INSPECT THE PROJECT AREA AND CONTROIL DEVICES (BY QUALIFIED PERSONNEL ASSIGNED BY THE CONTRACTOR) EVERY SEVEN CALENDAR DAYS. RECORD THE FINDINGS OF THESE INSPECTIONS AND ANY RESULTING ACTIONS IN THE SWPPP WITH A COPY SUBMITTED WEEKLY TO THE OWNER OR ENGINEER DURING CONSTRUCTION. REVISE THE SWPPP AND IMPLEMENT ANY RECOMMENDED MEASURES WITHIN 7 DIAYS.
 - PREVENT ACCUMULATION OF EARTH AND DEBRIS FROM CONSTRUCTION ACTIVITIES ON ADJOINING PUBLIC OR PRIVATE PROPERTIES, INCLUDING STREETS, DRIVEWAYS, SIDEWALKS, DRAINAGE WAYS, OR UNDERGROUND SEWERS. REMOVE ANY ACCUMULATION OF EARTH OR DEBRIS IMMEDIATELY AND TAKE REMEDIAL ACTIONS FOR FUTURE PREVENTION.
 - INSTALL NECESSARY CONTROL MEASURES SUCH AS SILT BARRIERS, EROSION CONTROL MATS, MULCH, DITCH CHECKS OR RIPRAP AS SOON AS AREAS REACH THEIR FINAL GRADES AND AS CONSTRUCTION OPERATIONS PROGRESS TO ENSURE CONTINUOUS RUNOFF CONTROLL PROVIDE INLET AND OUTLET CONTROL MEASURES AS SOON AS STORM SEWERS ARE INSTALLED.
 - RESPREAD A MINIMUM OF 4 INCHES OF TOIPSOIL (INCLUDING TOPSOIL FOUND IN SOD) ON ALL DISTURBED AREAS, EXCEPT WHERE PAVEMENT, BUILDINGS OR OTHER IMPROVEMENTS ARE LOCATED.
 - STABILIZE UNDEVELOPED, DISTURBED AREAS WITH MULCH, TEMPORARY SEED MIX, PERMANENT SEED MIX, OR SOD AS SO(ON AS PRACTICAL UPON COMPLETION OR DELAY OF GRADING OPER ATIONS. INITIATE STABILIZATION MEASURES NO LATER THAN 14 CALENDAR DAYS AFTER CONSTRUCTION ACTIVITY HAS FINISHED OR IS PLANNED TO BE DELAYED MORE THAN 21
 - COORDINATE LOCATIONS OF STAGING AREAS WITH THE OWNER AND RECORD IN THE SWPPP, UNLESS NOTED OTHERWISE, STAGING AREAS SHOULD CONTAIN THE FOLLOWING: JOB TRAILERS, FILELING / VEHICLE MAINTENANCE AREA, TEMPORARY SANITARY FACILITIES, MATERIALS STORAGE, AND CONCRETE WASHOUT FACILITY. CONTROL RUNOFF FROM STAGING AREAS WITH DIVERSION BERMS AND/OR SILT BARRIERS AND DIRECT TO A SEDIMENT BASIN OR OTHER CONTROL DEVICE WHERE POSSIBLE. CONCRETE WASHOUT MUST BE CONTAINED ONSITE.
 - REMOVE ALL TEMPORARY EROSION CONTROL MEASURES AND SITE WASTE PRIOR TO FILING OF THE "NOTICE OF DISCONTINUATION".



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CLIENT LOGO

ROJECT IN SEMATION

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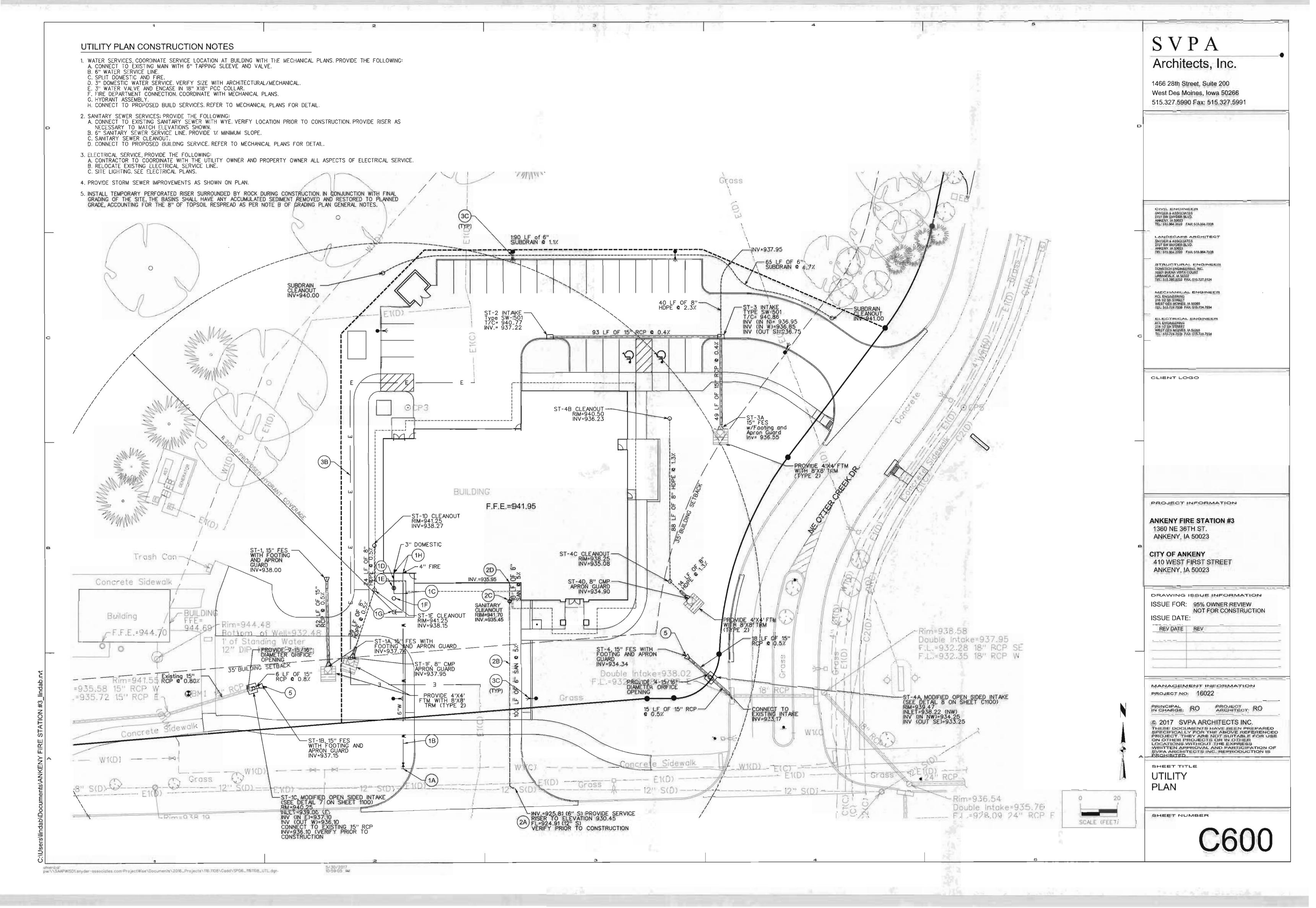
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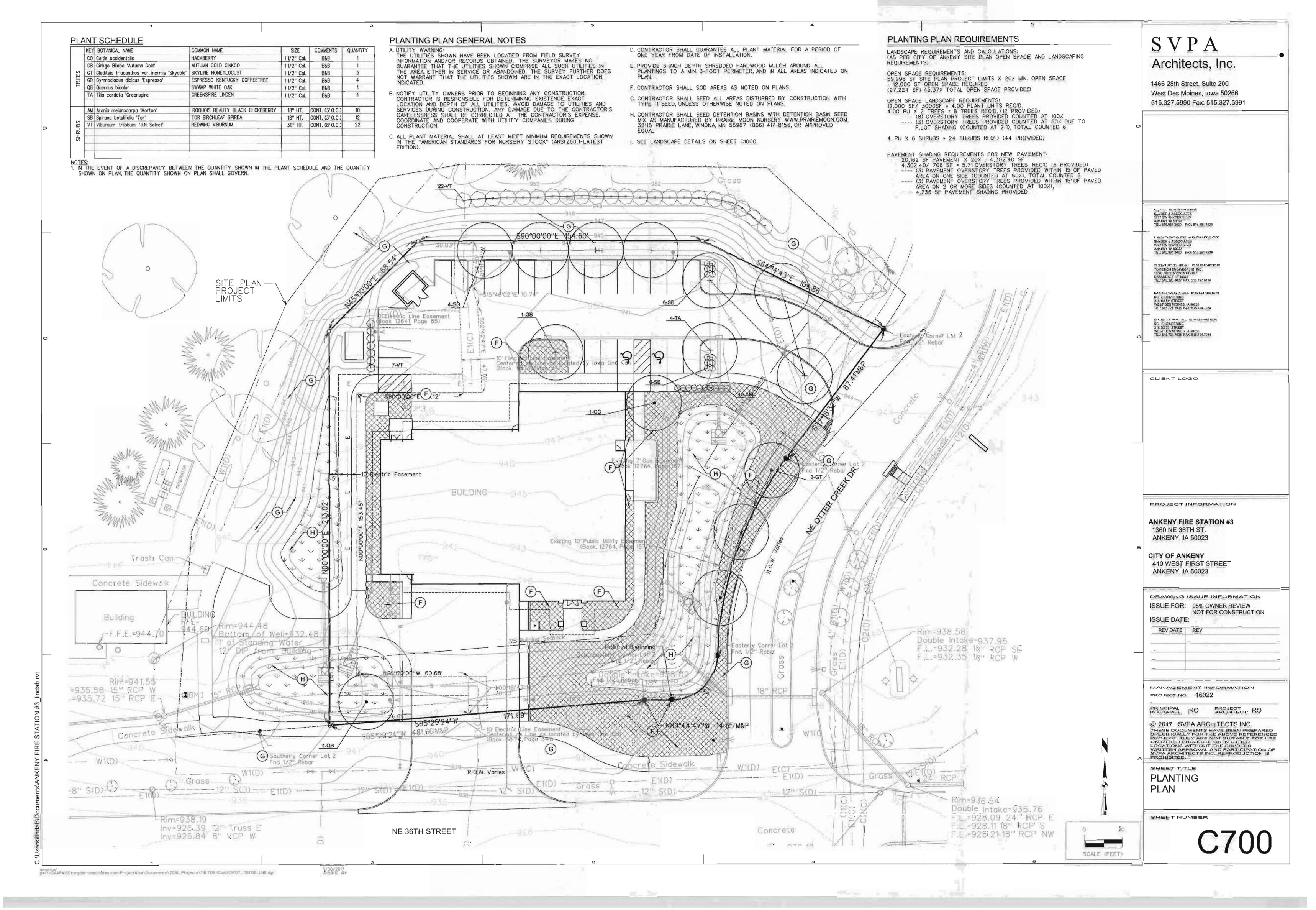
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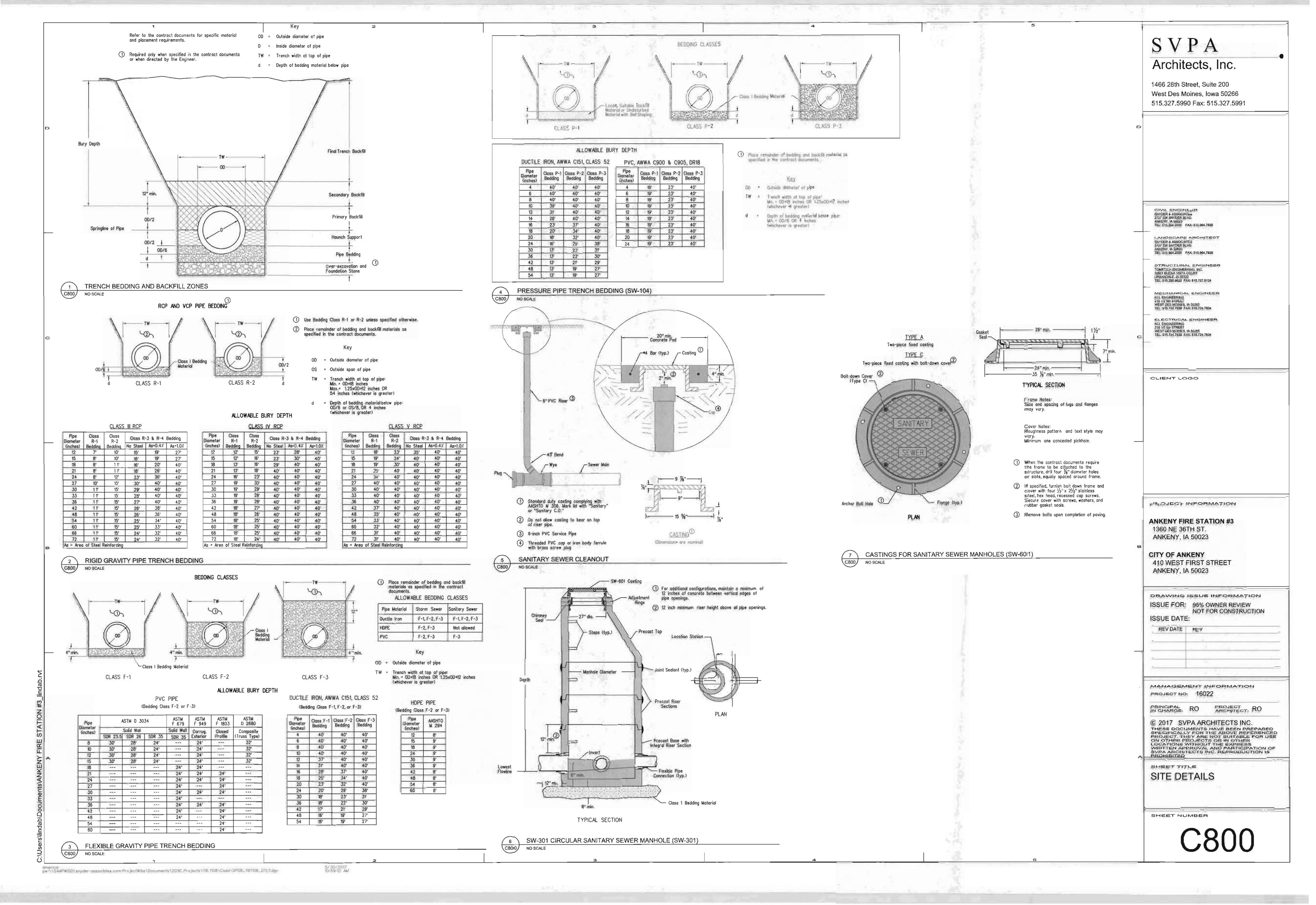
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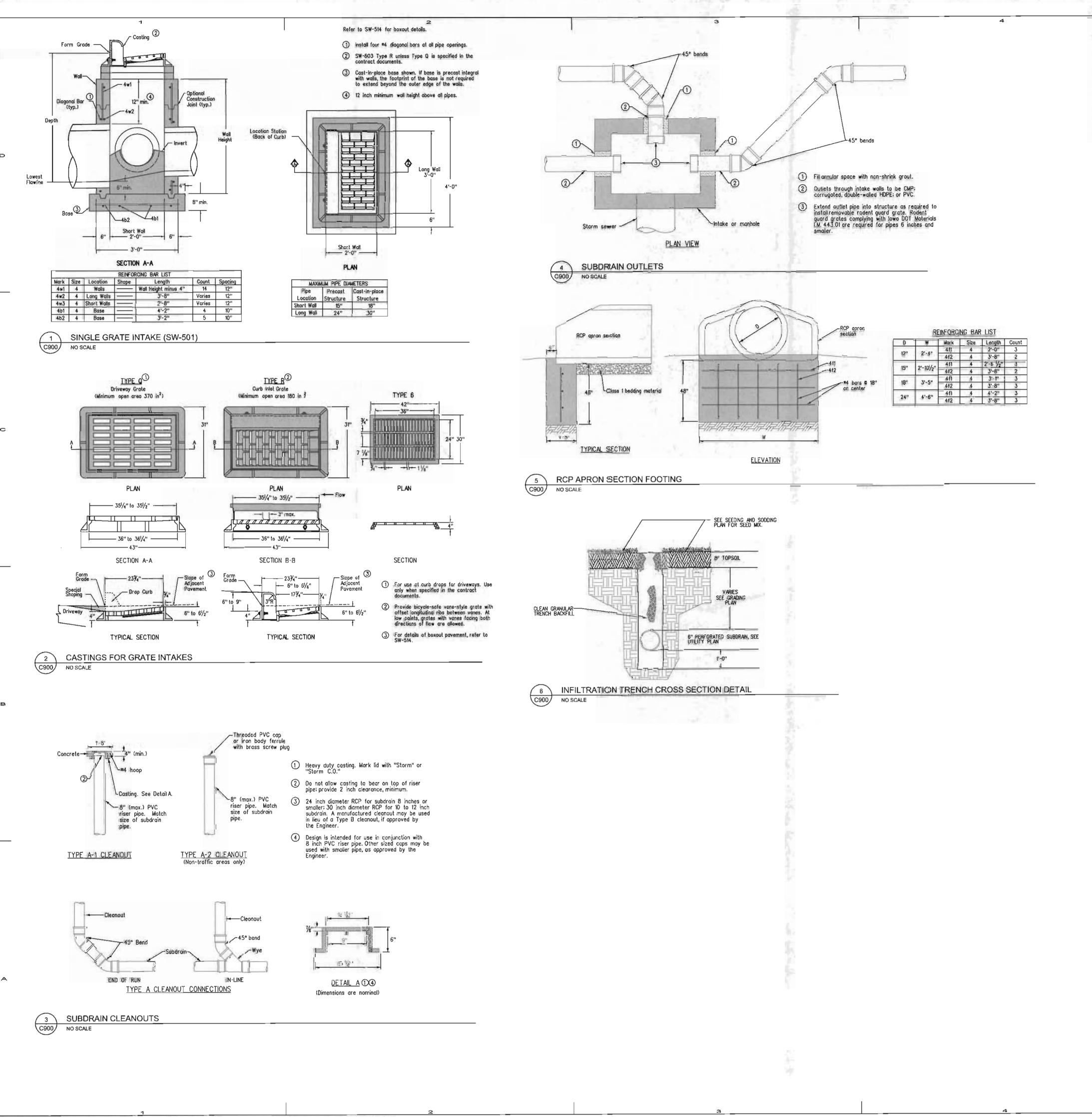
SHEET TITLE **GRADING AND EROSION CONTROL** PLAN

SHEET NUMBER









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CLIENT LOGO

PROJECT INFORMATION

ANKENY FIRE STATION #3 1360 NE 36TH ST. ANKENY, IA 50023

410 WEST FIRST STREET ANKENY, IA 50023

ISSUE FOR: 95% OWNER REVIEW
NOT FOR CONSTRUCTION

ISSUE DATE:

MANAGEMENT INFORMATION

PROJECT NO: 16022

PRINCIPAL RO PROJECT RO

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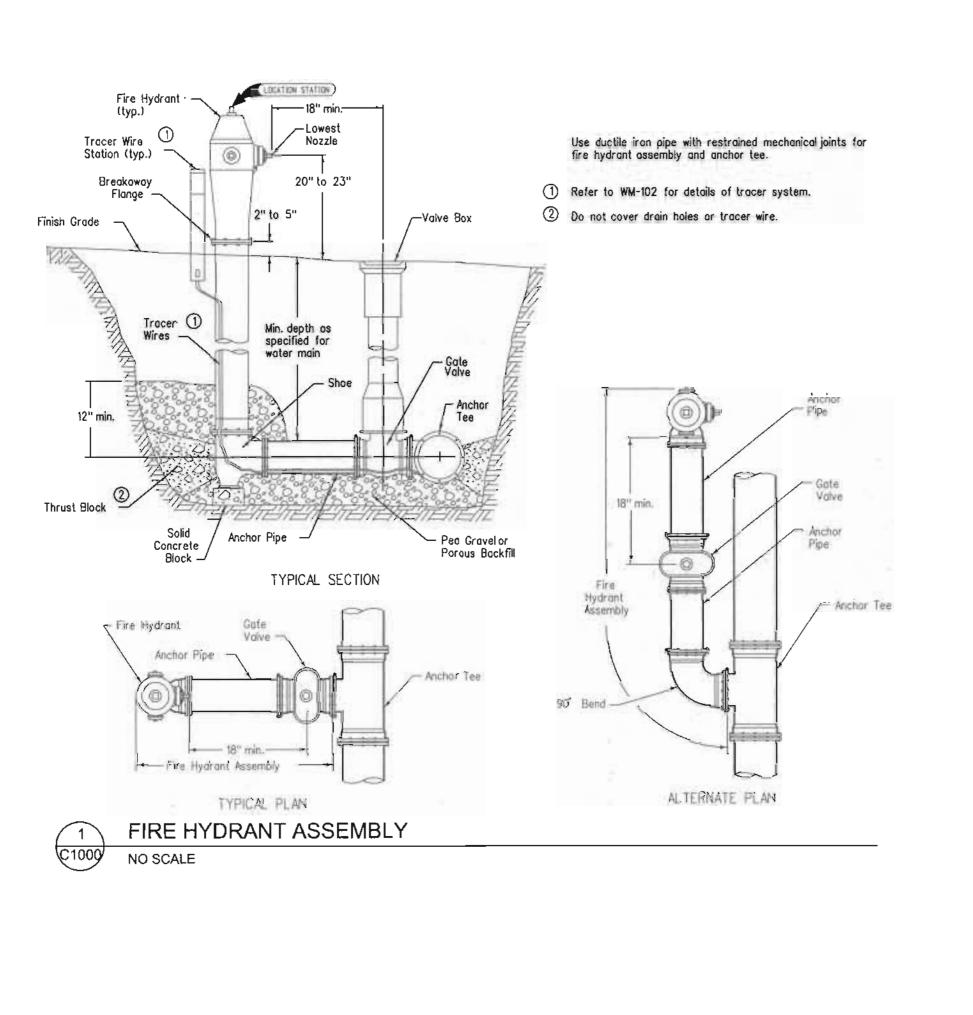
SITE DETAILS

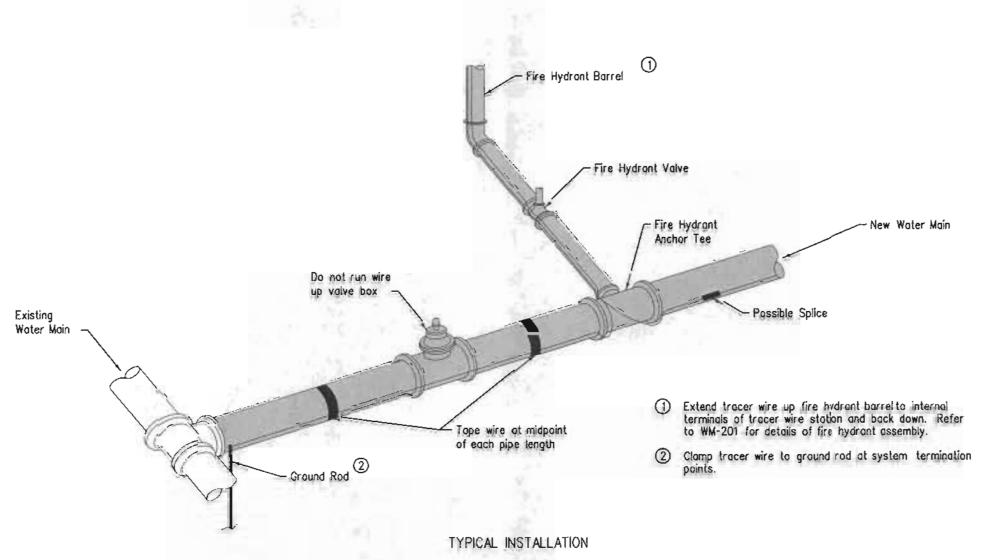
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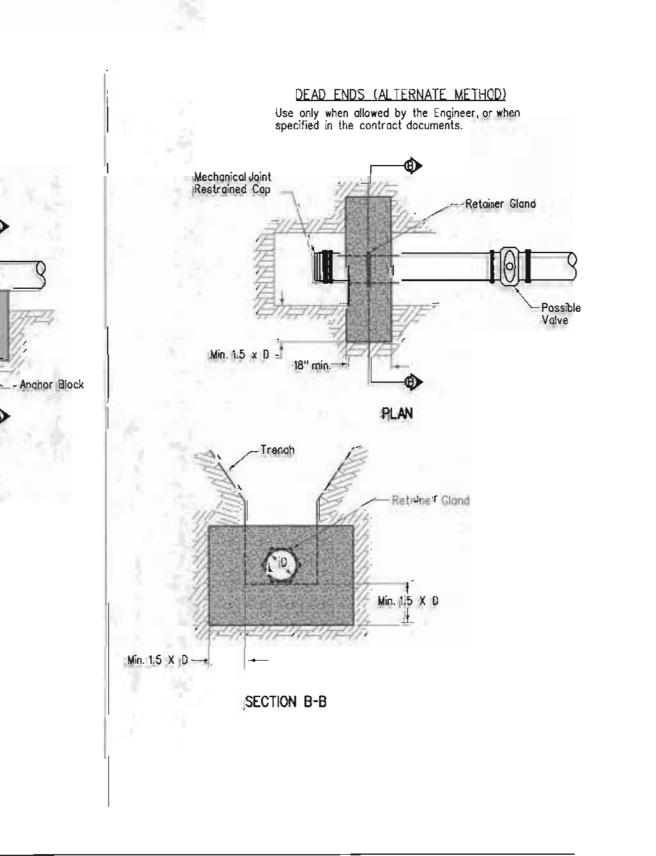
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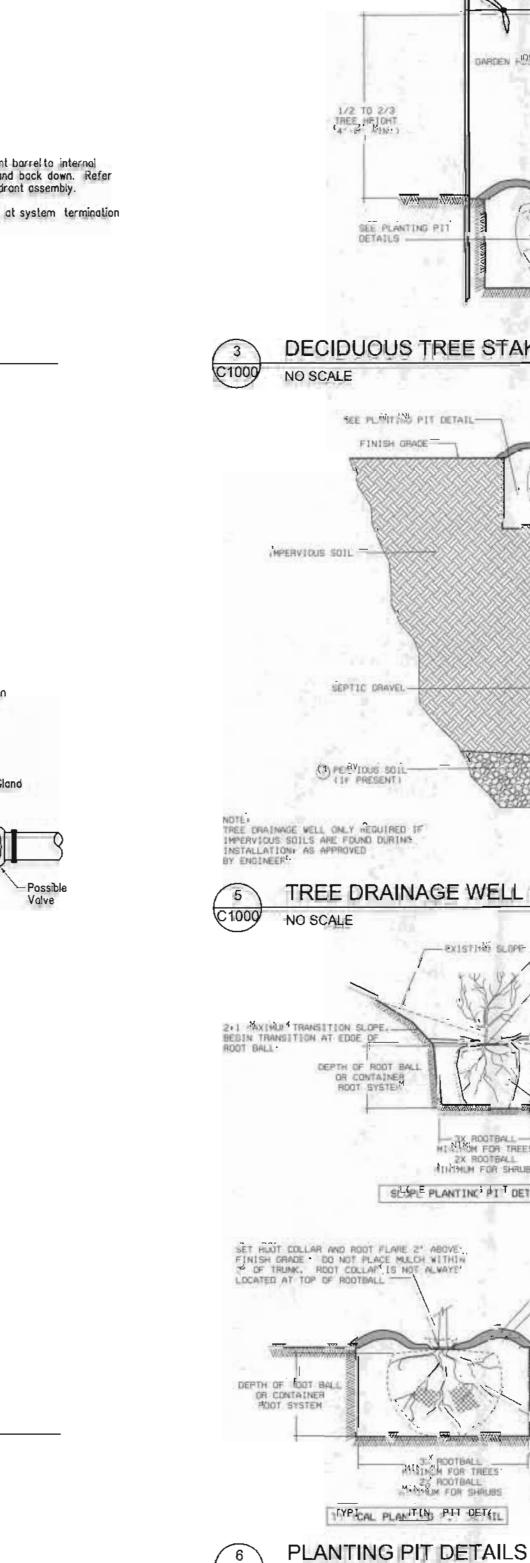
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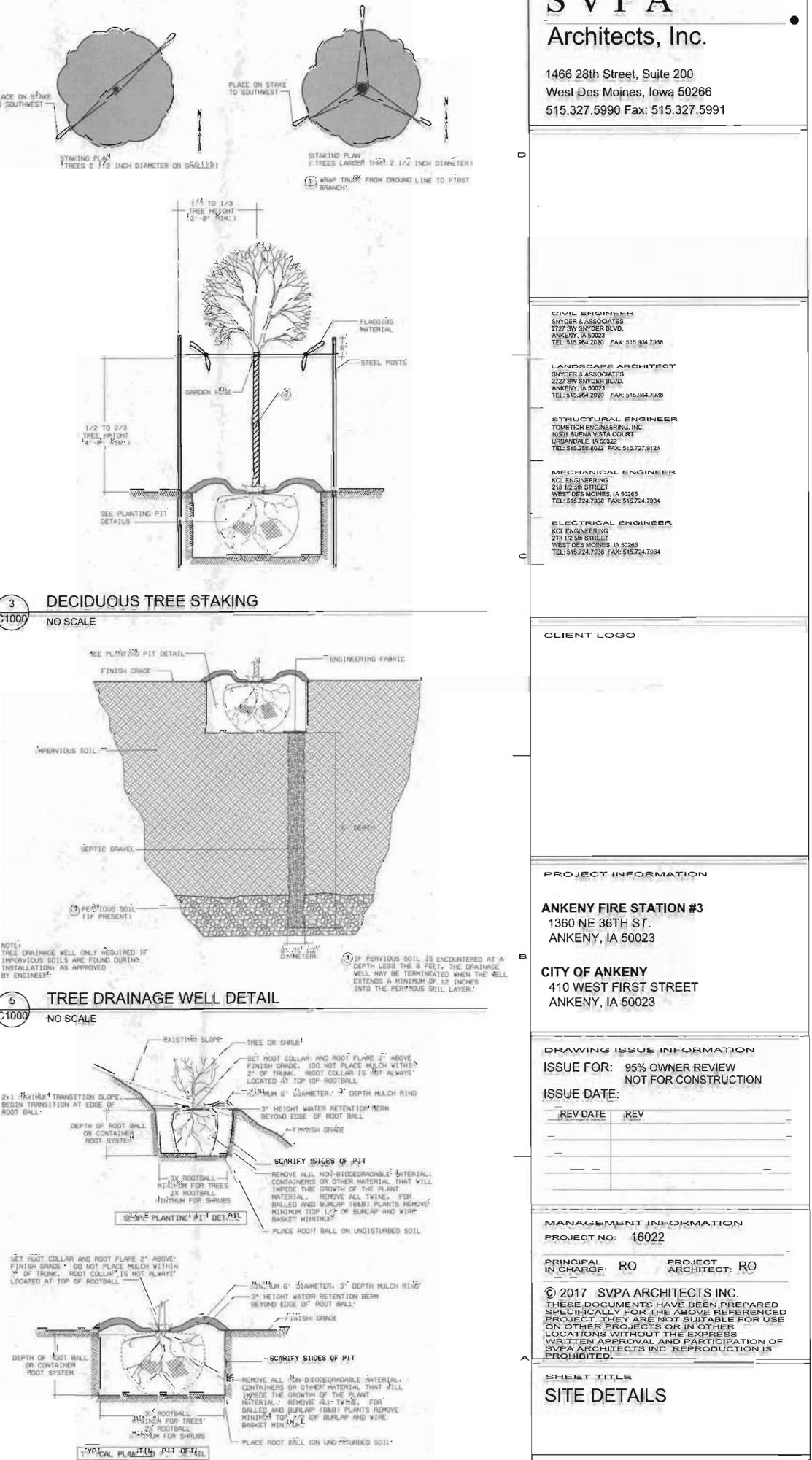








NO SCALE



SHEET NUMBER

TYPICAL SECTION <u>TEES</u> CROSSES

Thrust Block

TYPICAL PLAN

DEAD ENDS RESTRICTION DISCORDING TO A

Minimum surface area based on water pressure of 150 psi and allowable soil pressure of 1,000 psf.

BENDS

MINIMUM BEARING SURFACE (sf)

111/4 221/2 45° 90° Dead Ends

Diameter of

Pipe, D (inches)

> Extend thrust blocks to undisturbed soil. Excavation into trench wall may be necessary. Form vertical surfaces of poured concrete thrust blocks except on bearing surface. Encase all fittings in polyethylene wrap. Do not allow concrete to directly contact joints or fitting bolts.

Possible Pipe or Structure

18" min.

ELEWATION SECTION A-A

TRACER SYSTEM

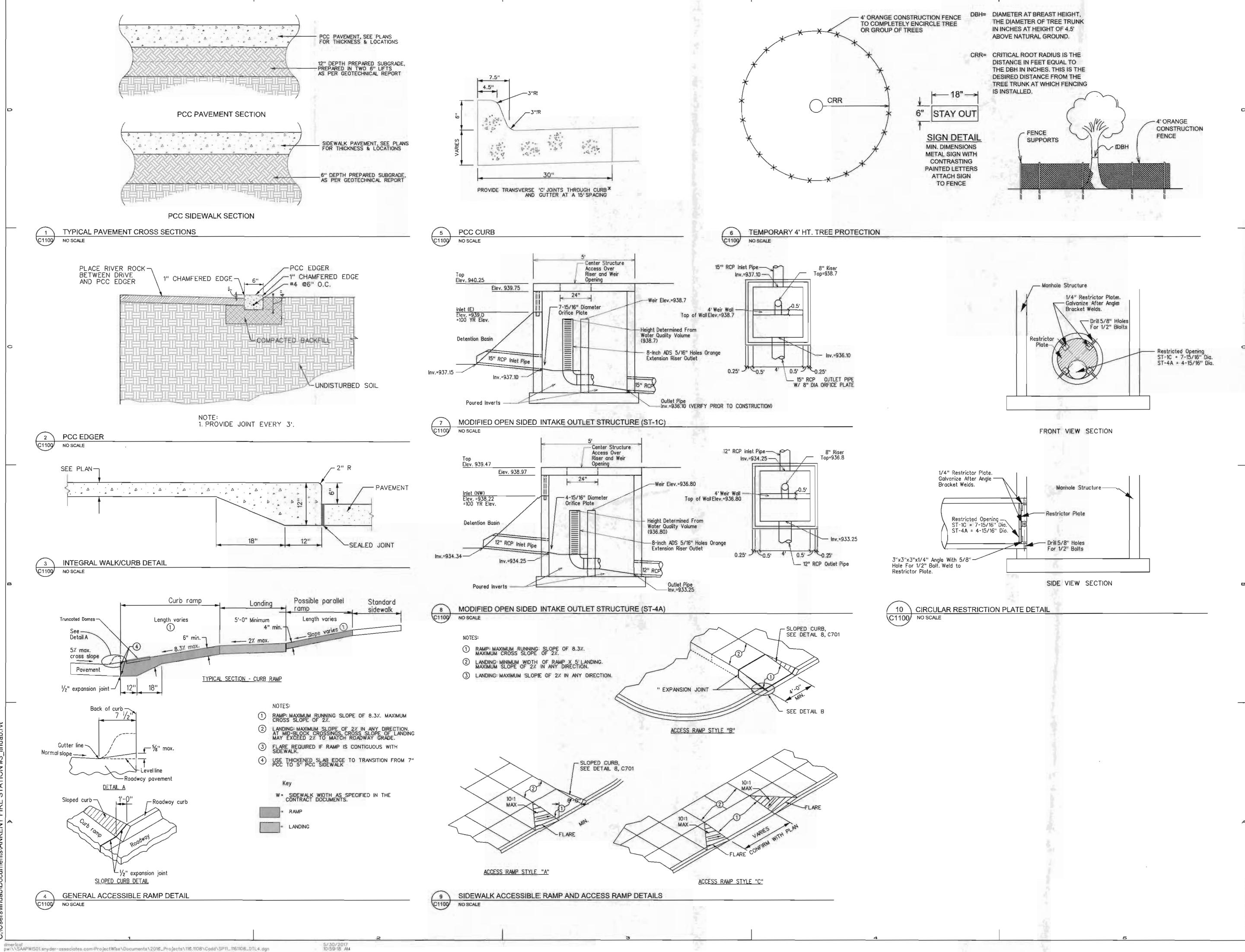
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CHANGES IN PIPE DEPTH

Elbows with Restrained Joints

THRUST BLOCKS NO SCALE

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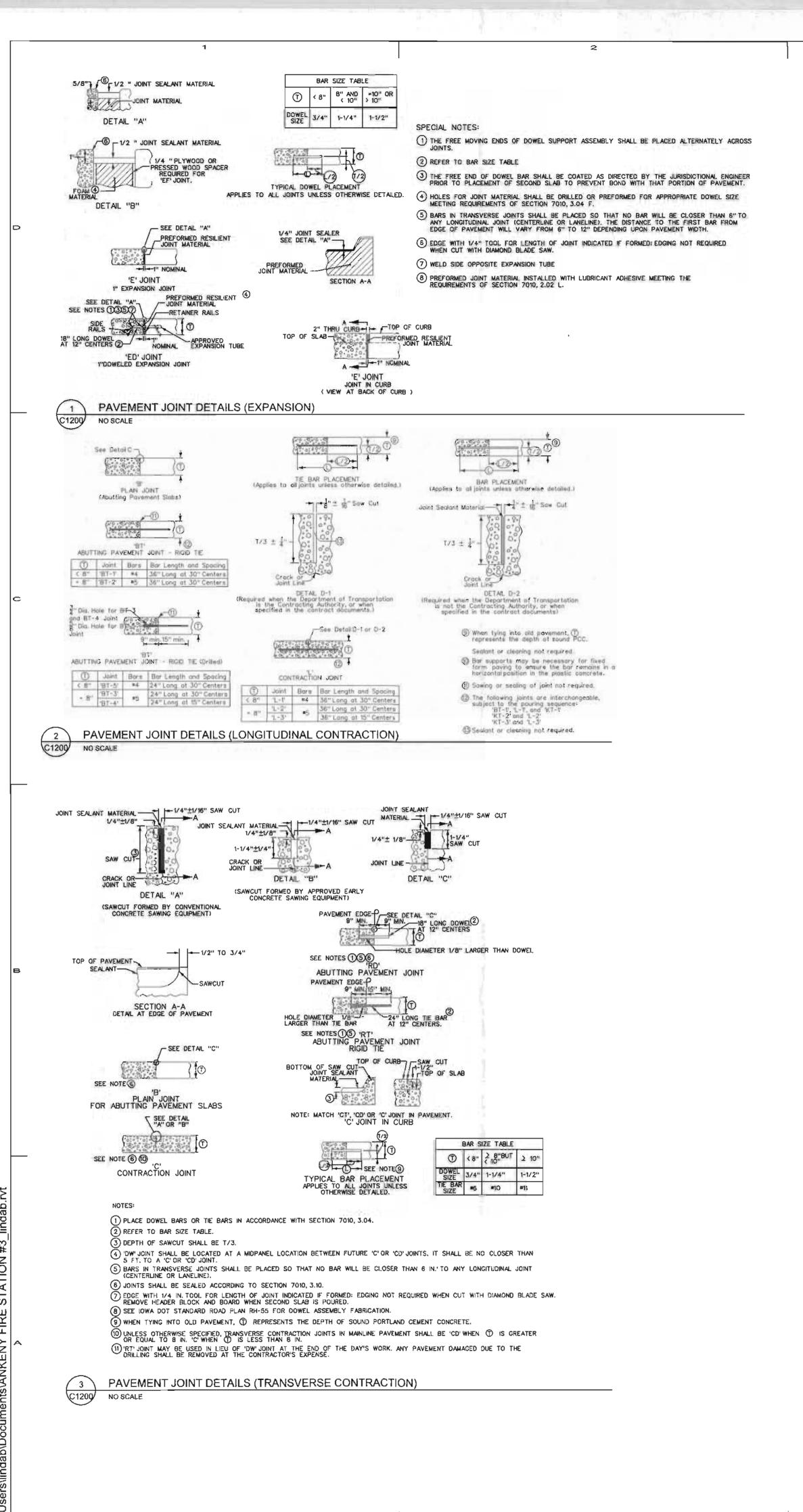
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SHEET TITLE

SITE DETAILS

SHEET NUMBER

C1100



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IN CHARGE: RO ARCHITECT:

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