

**GENERAL NOTES**

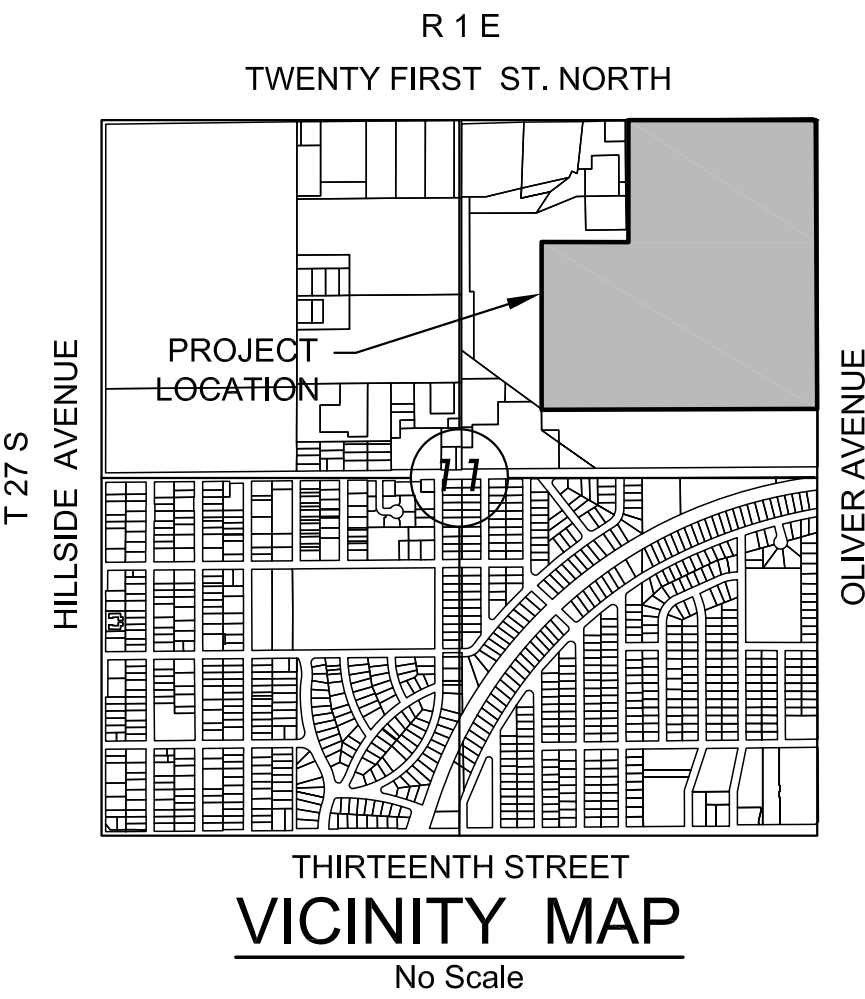
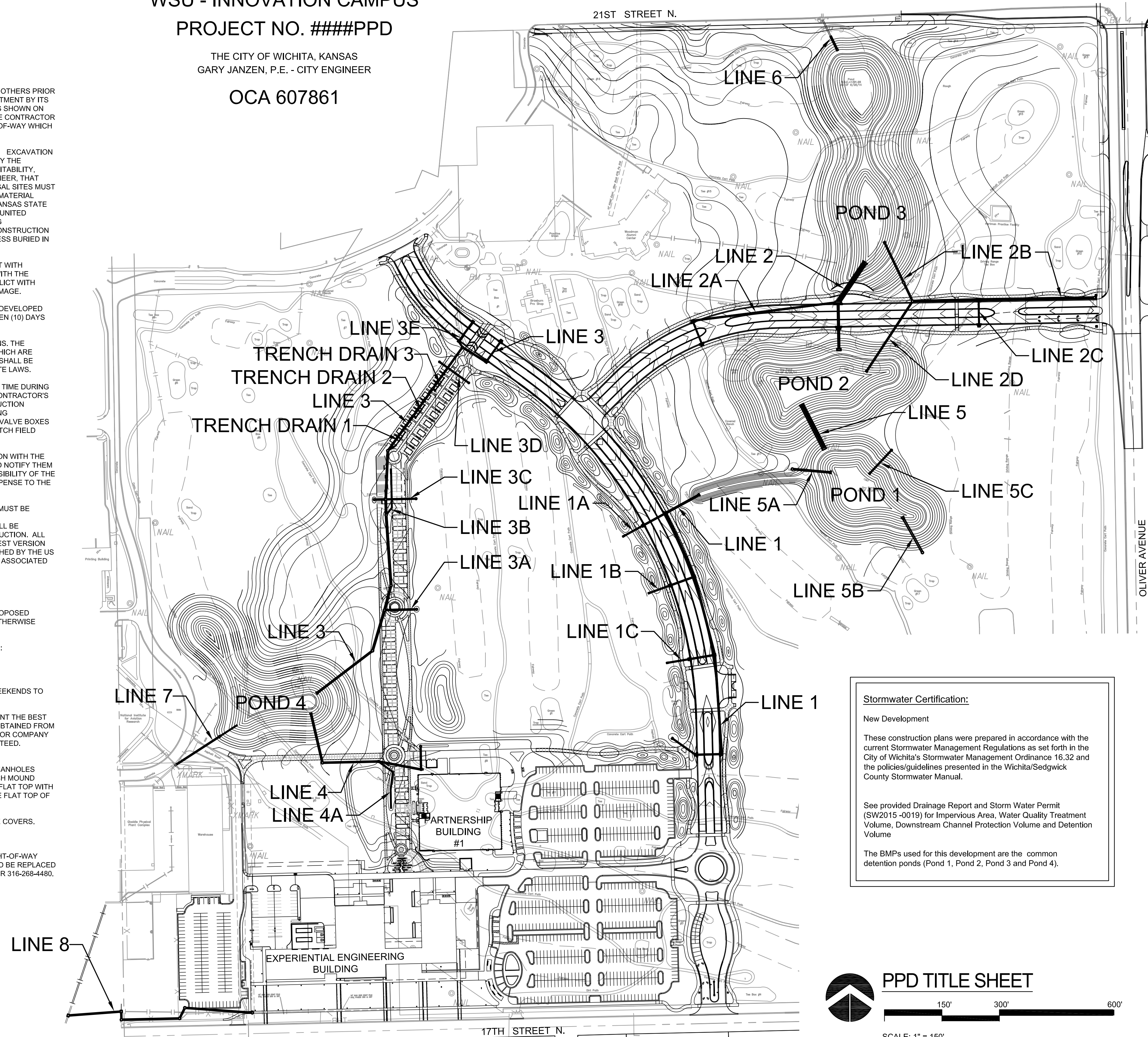
- THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE SAFETY REGULATIONS. ALL CONSTRUCTION SHALL BE COMPLETED FOLLOWING CURRENT CITY STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.
- THE CONTRACTOR WILL BE REQUIRED TO PROVIDE NOTICE TO UTILITY COMPANIES A MINIMUM OF SEVENTY-TWO (72) HOURS PRIOR TO ANY EXCAVATION, AS FOLLOWS:  
 KANSAS ONE-CALL 687-2470  
 THE CONTRACTOR MUST NOTIFY THE FOLLOWING IN CASE OF AN EMERGENCY:  
 AT&T 1-800-246-8464  
 BLACK HILLS ENERGY (GAS) 1-800-694-8989  
 CITY OF WICHITA WATER 1-316-268-4555  
 CITY OF WICHITA SEWER 1-316-268-4073  
 CITY OF WICHITA STORMWATER 1-316-268-4090  
 CITY OF WICHITA TRAFFIC 1-316-268-4034  
 COX COMMUNICATIONS 1-888-249-3530  
 KANSAS GAS SERVICE 1-888-482-4950  
 WESTAR ENERGY 1-800-544-4857
- UTILITY SERVICE LINES, POLES, ETC. ARE TO BE ADJUSTED AS NECESSARY BY OTHERS PRIOR TO CONSTRUCTION UNLESS THE PLANS SPECIFICALLY CALL FOR THEIR ADJUSTMENT BY ITS OWNER DURING CONSTRUCTION. EXISTING UTILITIES AND THEIR LOCATION, AS SHOWN ON THE PLAN, REPRESENT THE BEST INFORMATION OBTAINABLE FOR DESIGN. THE CONTRACTOR WILL BE REQUIRED TO WORK AROUND EXISTING UTILITIES WITHIN THE RIGHT-OF-WAY WHICH DO NOT CONFLICT WITH PROPOSED CONSTRUCTION.
- 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 WOULD 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 WOULD REQUIRE ADDITIONAL ARCHAEOLOGICAL INVESTIGATIONS UNLESS BURIED IN A PREVIOUSLY APPROVED BORROW LOCATION.
- 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.
- THE CONTRACTOR SHALL GIVE ALL PROPERTY OWNERS AND/OR TENANTS OF DEVELOPED PROPERTY ABUTTING THE CONSTRUCTION OF THIS PROJECT A MINIMUM OF TEN (10) DAYS NOTICE PRIOR TO START OF CONSTRUCTION.
- 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 HIS CONSTRUCTION OPERATIONS. SUCH IRONS SHALL BE RE-ESTABLISHED BY A LICENSED LAND SURVEYOR IN ACCORDANCE WITH STATE LAWS.
- THE WATER DISTRIBUTION DIVISION SHALL FIELD LOCATE WATER VALVES ONE TIME DURING CONSTRUCTION WHEN REQUESTED BY THE CONTRACTOR. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PRESERVE SUCH FIELD LOCATIONS DURING THE CONSTRUCTION PROCESS. WATER VALVES, VALVE BOXES OR FIRE HYDRANTS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED BY CONTRACTOR AT HIS OWN EXPENSE. VALVE BOXES AND WATER METERS WITHIN THE PROJECT LIMITS SHALL BE ADJUSTED TO MATCH FIELD GRADES.
- THE CONTRACTOR SHALL NOTIFY THE CONSULTANT ENGINEER AND TOM MASON WITH THE CITY AT 316-268-4574 WITH THE ANTICIPATED CONSTRUCTION START DATE AND NOTIFY THEM OF PROJECT COMPLETION. STAKING FOR THIS PROJECT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR. MKEC ENGINEERING, INC. WILL PROVIDE INSPECTION AT NO EXPENSE TO THE CONTRACTOR.
- IF TRAFFIC WILL BE IMPACTED BY CONSTRUCTION, A TRAFFIC CONTROL PLAN MUST BE SUBMITTED AND APPROVED BY THE CITY TRAFFIC ENGINEER, BRIAN COON AT [brcoon@wichita.gov](mailto:brcoon@wichita.gov) BEFORE CONSTRUCTION CAN BEGIN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL MEASURES TO FACILITATE CONSTRUCTION. ALL CONSTRUCTION ZONE MARKINGS AND SIGNAGE SHALL CONFORM TO THE LATEST VERSION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AS PUBLISHED BY THE US DEPT. OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION. ALL COSTS ASSOCIATED WITH CONSTRUCTION MARKINGS AND SIGNAGE SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
- ALL ELEVATIONS SHOWN ARE U.S.G.S. DATUM (NAVD 88).
- ALL AREAS DISTURBED DURING CONSTRUCTION THAT WILL NOT BE UNDER PROPOSED PAVEMENT SHALL BE RESTORED TO MATCH EXISTING CONDITIONS, UNLESS OTHERWISE NOTED IN PLANS.
- FOLLOW THE LINK BELOW FOR SPECIFIC CITY OF WICHITA STANDARD DETAILS:  
<http://www.wichita.gov/government/departments/pw/standardsconstruction>  
 STORMWATER DETAILS: SW101, SW103, SW111 & SW202  
 EROSION DETAILS: SW501, SW502, SW503, SW504, & SW505
- CONTRACTOR SHALL LIMIT THE EXTENT OF TRENCH OPEN OVERNIGHT AND WEEKENDS TO LESS THAN 50 FEET.
- 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 COMPANIES AND IS EITHER FROM COMPANY UTILITY DRAWINGS OR COMPANY PROVIDED FIELD LOCATIONS. THE PLAN LOCATIONS SHOWN ARE NOT GUARANTEED. ADDITIONAL EXISTING UTILITIES MAY ALSO BE ENCOUNTERED.
- A PORTION OF EXCESS EXCAVATED MATERIAL SHALL BE MOUNDED AROUND MANHOLES WHICH EXTEND MORE THAN ONE (1) FOOT ABOVE THE EXISTING GROUND. SUCH MOUND SHALL BE CONSTRUCTED WITH NEW DEVELOPMENT A SIX (6) FOOT DIAMETER FLAT TOP WITH 4 TO 1 SIDE SLOPES DOWN TO THE ORIGINAL GROUND. THE ELEVATION OF THE FLAT TOP OF THE MOUND SHALL BE 0.4 FOOT BELOW THE TOP OF THE MANHOLE.
- CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE AWAY FROM ALL MANHOLE COVERS.
- CITY MAINTENANCE OF STORM SEWER ENDS AT RIGHT-OF-WAY.
- ANY SIDEWALK, DRIVE APPROACH, OR STREET PAVEMENT WITHIN PUBLIC RIGHT-OF-WAY REMOVED TO CONSTRUCT PROJECT MUST HAVE A PAVEMENT CUT PERMIT AND BE REPLACED BY CITY CONTRACTOR. PERMITS CAN BE OBTAINED BY CALLING 316-268-4501 OR 316-268-4480.
- DEVELOPER FOR THIS PROJECT IS:  
 WICHITA STATE UNIVERSITY, 1845 FAIRMOUNT ST., WICHITA, KS 67260  
 ERIC KING - DIRECTOR FACILITIES PLANNING; (316) 978-3030

PRIVATE STORM WATER SEWER TO SERVE  
**380 PPD, PHASE 3**  
**WSU INNOVATION INFRASTRUCTURE**

A PORTION OF  
**WSU - INNOVATION CAMPUS**  
 PROJECT NO. #####PPD

THE CITY OF WICHITA, KANSAS  
 GARY JANZEN, P.E. - CITY ENGINEER

OCA 607861



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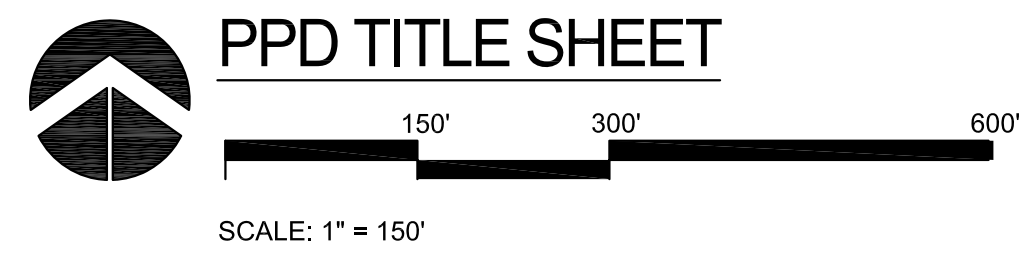
**Stormwater Certification:**  
 New Development  
 These construction plans were prepared in accordance with the current Stormwater Management Regulations as set forth in the City of Wichita's Stormwater Management Ordinance 16.32 and the policies/guidelines presented in the Wichita/Sedgwick County Stormwater Manual.  
 See provided Drainage Report and Storm Water Permit (SW2015-0019) for Impervious Area, Water Quality Treatment Volume, Downstream Channel Protection Volume and Detention Volume  
 The BMPs used for this development are the common detention ponds (Pond 1, Pond 2, Pond 3 and Pond 4).

APPROVED AS NOTED  
 BY CITY ENGINEER OF WICHITA,  
 BY STORMWATER DEPARTMENT

Engineering \_\_\_\_\_  
 Storm Water (Public Works) \_\_\_\_\_

NOTE TO CONTRACTORS

Public Property:  
 Inspection and testing for the storm water sewer is to be provided by a Licensed Consulting Engineering Firm under contract with the Owner/Developer. Said inspection to be in accordance with the City of Wichita Standard Construction Engineering Practices and certified by a Professional Engineer licensed in the state of Kansas. No work shall be performed in dedicated easements or public rights-of-way by the Contractor without such inspection, nor shall any work be commenced without written authorization by the City Engineer. All construction and materials shall comply with the current City of Wichita Specifications and Standards and Special Provisions (on file and available in the City Engineer's Office or at Wichita.gov).  
 An approved copy of these plans signed by City staff are required on-site.



REVISION	DATE

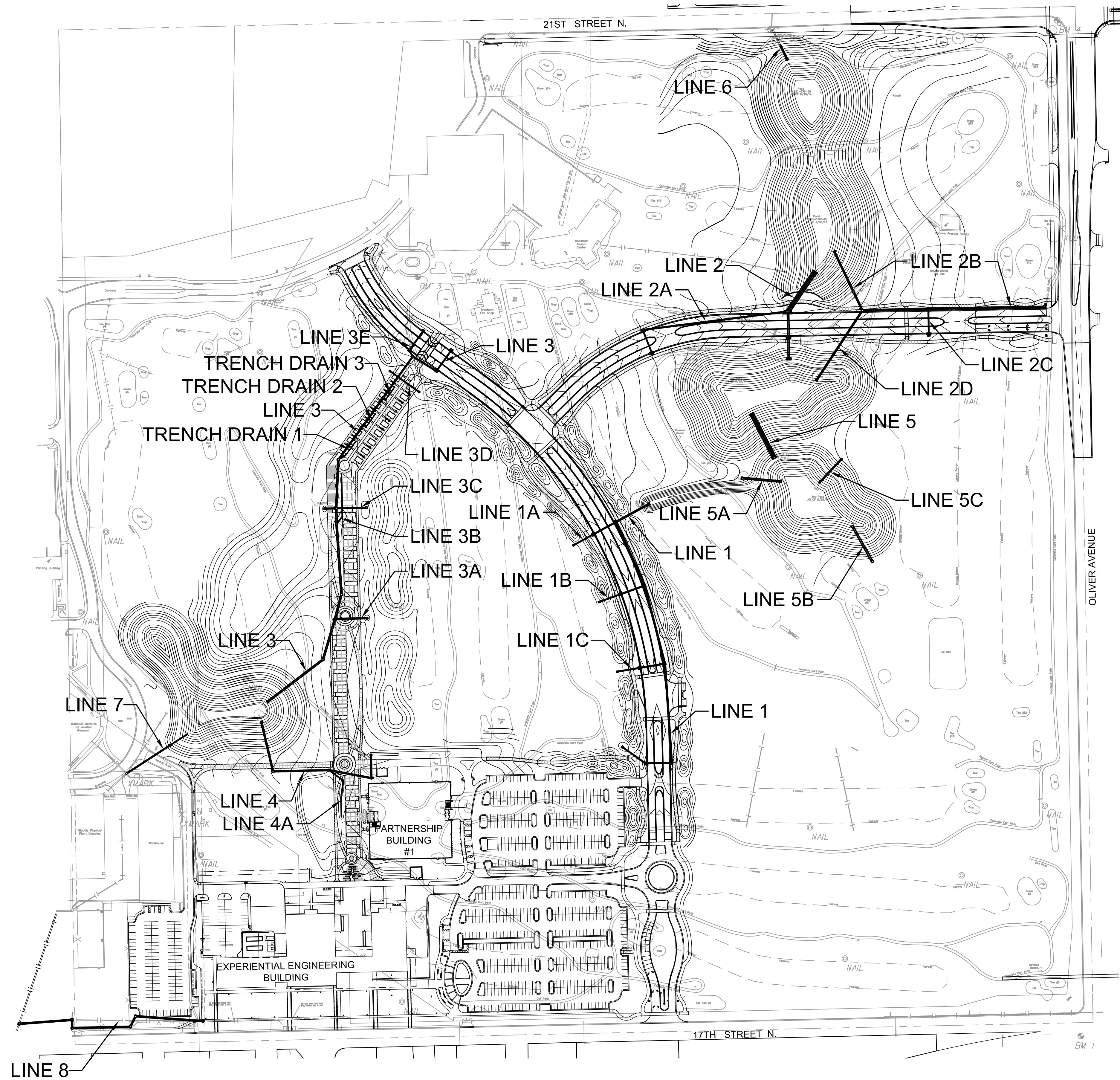
DIVISION OF ADMINISTRATION & FINANCE  
 FACILITIES PLANNING  
 1845 FAIRMOUNT ST.  
 WICHITA, KANSAS 67260-0047  
 Phone 316-978-3030

Department of Administration  
 Office of Facilities & Property Management  
 Design, Construction & Compliance  
 800 SW Jackson, Suite 700  
 Topeka, Kansas 66612-1216  
 Phone 785-296-8899

WICHITA STATE UNIVERSITY  
**INNOVATION CAMPUS INFRASTRUCTURE**  
**PHASE 2**  
 1845 FAIRMOUNT ST.  
 WICHITA, KANSAS 67260-0023  
 DATE: 11/11/2016  
 DRAWN BY: SPE  
 CHECKED BY: SPE

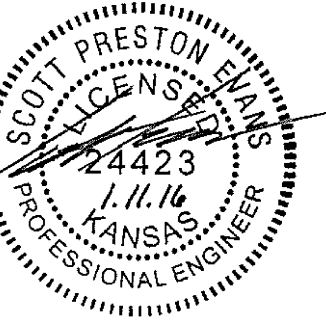
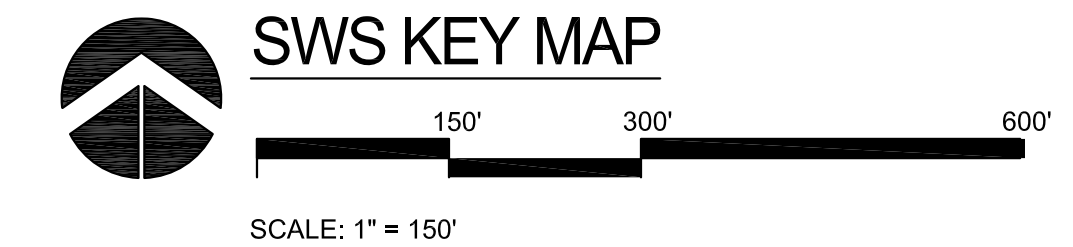
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 A-012817(a)  
 1 OF 1  
 ORIGINAL CONTRACT DOCUMENTS

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### STORM SEWER NOTES

1. ALL STORM SEWER CONSTRUCTION SHALL BE COMPLETED FOLLOWING CURRENT CITY OF WICHITA STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.
2. POND OUTFALL END SECTIONS SHALL BE INSTALLED DIRECTLY ON CLAY LINER. DO NOT INSTALL ON AGGREGATE BEDDING.
3. CONTRACTOR TO ENSURE CLAY LINER IS SEALED AROUND ANY PIPE PROJECTING OUT INTO THE POND.
4. INSTALL LIGHT STONE RIPRAP AT ALL POND OUTFALL END SECTIONS PER DETAIL ON SHEET 65.
5. PVC PIPE SHALL BE SDR-35 PVC (ASTM D3034).
6. RUBBLE FROM THE REMOVAL OF MISCELLANEOUS STRUCTURES SHALL BE DISPOSED OF OFF SITE BY THE CONTRACTOR.
7. STAKING FOR THIS PROJECT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
8. CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE AWAY FROM ALL MANHOLE COVERS.
9. ALL STORM SEWER LINES AND STRUCTURES SHOWN ON THESE PLANS SHALL BE MAINTAINED BY WICHITA STATE UNIVERSITY.



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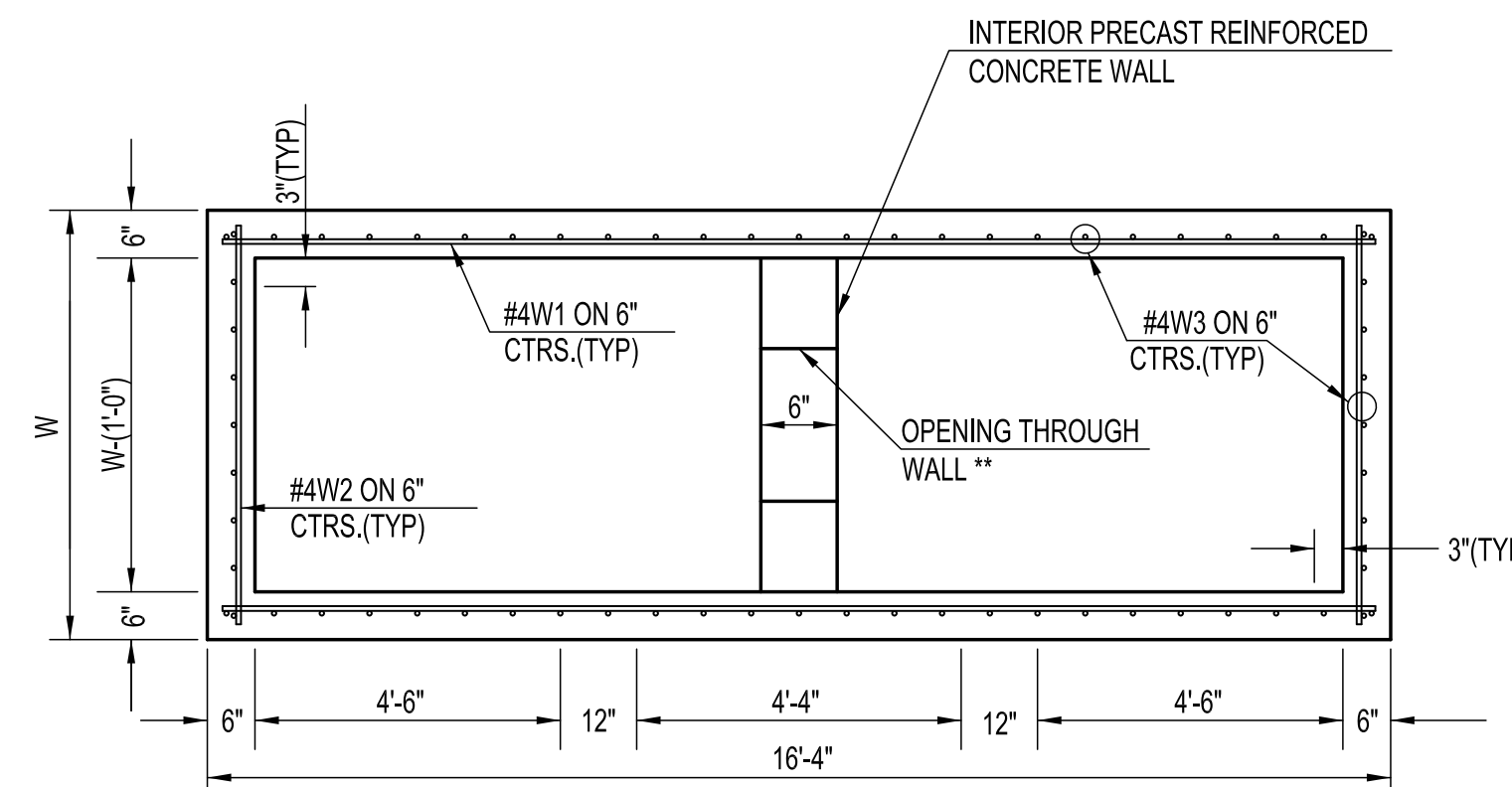
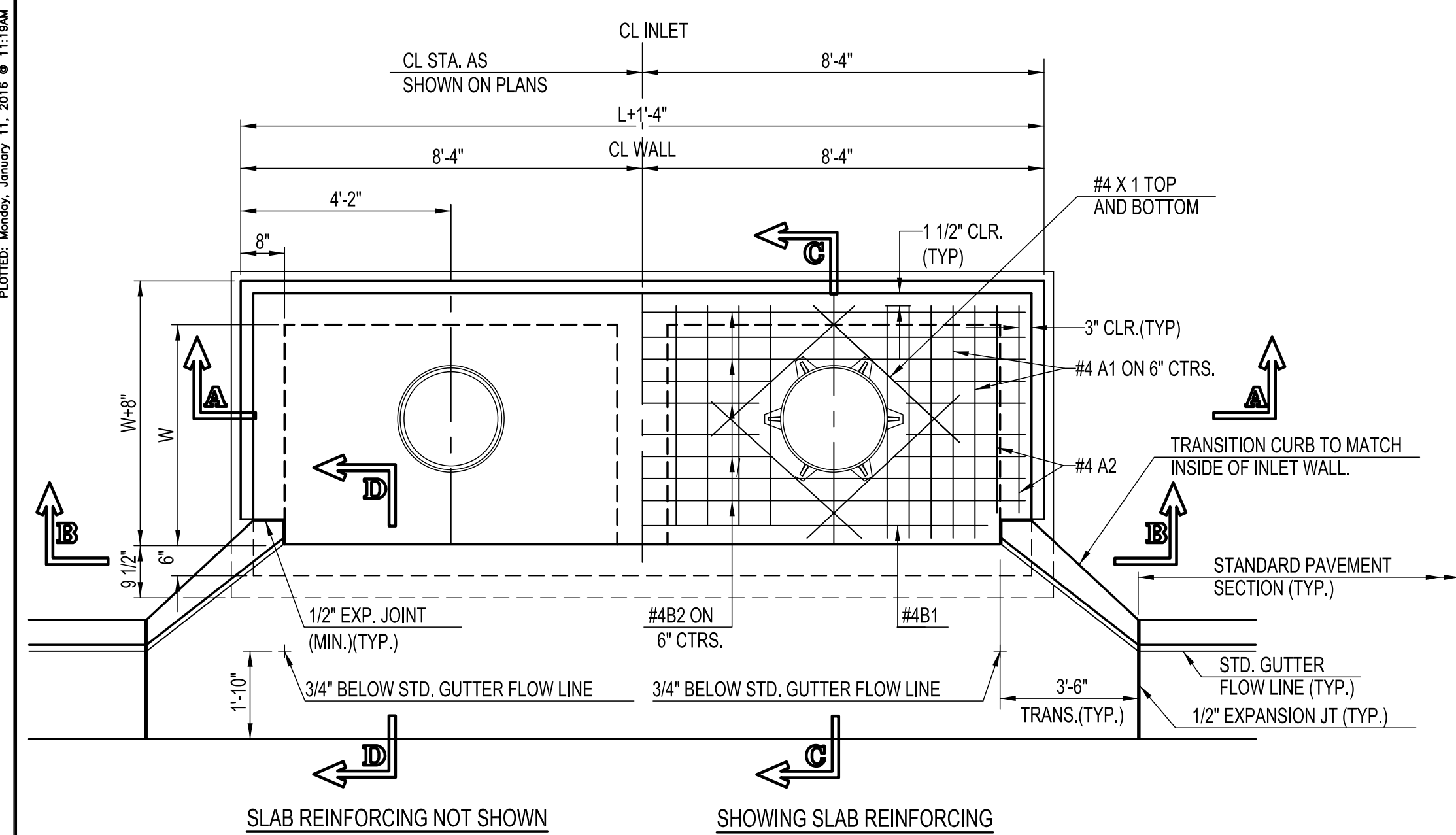
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**INNOVATION CAMPUS INFRASTRUCTURE PHASE 2**  
 1845 FAIRMOUNT ST.  
 WICHITA, KANSAS 67260-0023  
 DATE: 1/11/2016  
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 CHECKED BY: SPE

SWS KEY MAP  
 A-012817(a)  
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 ORIGINAL CONTRACT DOCUMENTS





PLOTTED: Monday, January 11, 2016 11:16AM



PRECAST CURB INLET WIDTHS				
W	PRE-CAST TOP SIZE			PIPE DIA.***
	WIDTH	LENGTH	TOP	
3'-0"	W+8"	L+1'-4"	7 1/2"	21" & SMALLER
4'-0"	W+8"	L+1'-4"	7 1/2"	24" & 30"
5'-0"	W+8"	L+1'-4"	7 1/2"	36" & 42"
6'-0"	W+8"	L+1'-4"	7 1/2"	48" & 54"
7'-0"	W+8"	L+1'-4"	7 1/2"	60" & 66"

\*\*\* FOR PIPES PERPENDICULAR TO INLET WALL

- GENERAL NOTES**
- CONCRETE TOPS TO BE INSTALLED ON THIN MORTAR CUSHION TO INSURE FULL SUPPORT ALONG BRICK. CONCRETE TOPS MAY BE CAST IN PLACE OR PRECAST. CONCRETE USED FOR INLET CONSTRUCTION SHALL CONFORM TO CITY OF WICHITA SPECIFICATIONS FOR CONCRETE PAVEMENT MIX.
  - CONTRACTOR SHALL HAVE THE OPTION OF CONSTRUCTING 8" BRICK MASONRY WALLS BETWEEN THE CONCRETE INLET BASE AND TOP OF THIS INLET WHEN W=5'-0" AND H=7'-0" OR LESS.
  - INLET INVERT SHALL BE SHAPED WITH 8 SACK SAND MIX CONCRETE TO CREATE FLOW CHANNELS AND TO INCREASE HYDRAULIC EFFICIENCY SUCH THAT THE INLET WILL BE SELF CLEANING BETWEEN ALL INLET AND/OR OUTLET PIPES.
  - THE ENDS OF ALL PIPES INSTALLED IN INLETS SHALL BE CUT OFF FLUSH WITH THE INSIDE FACE OF THE INLET WALL.
  - INLET FRAME AND COVER TO BE DEETER #2014, EJIW #1936-Z4, OR APPROVED EQUAL. SEE SW-303.
  - CONTRACTOR SHALL REMOVE LIFTING HOOKS AFTER INSTALLATION. RECESSES IN INLET WALL SHALL BE GROUTED FLUSH TO THE INLET WALL WITH HYDRAULIC CEMENT AFTER THE INLET IS IN PLACE. LIFTING HOLES THRU THE INLET WALL WILL NOT BE ACCEPTED.



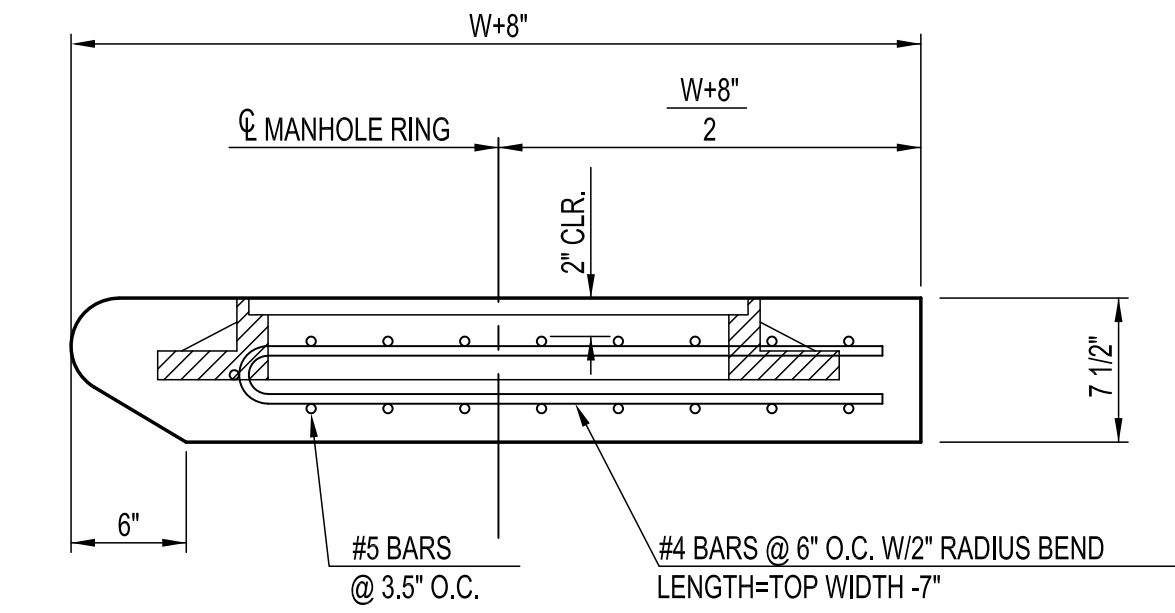
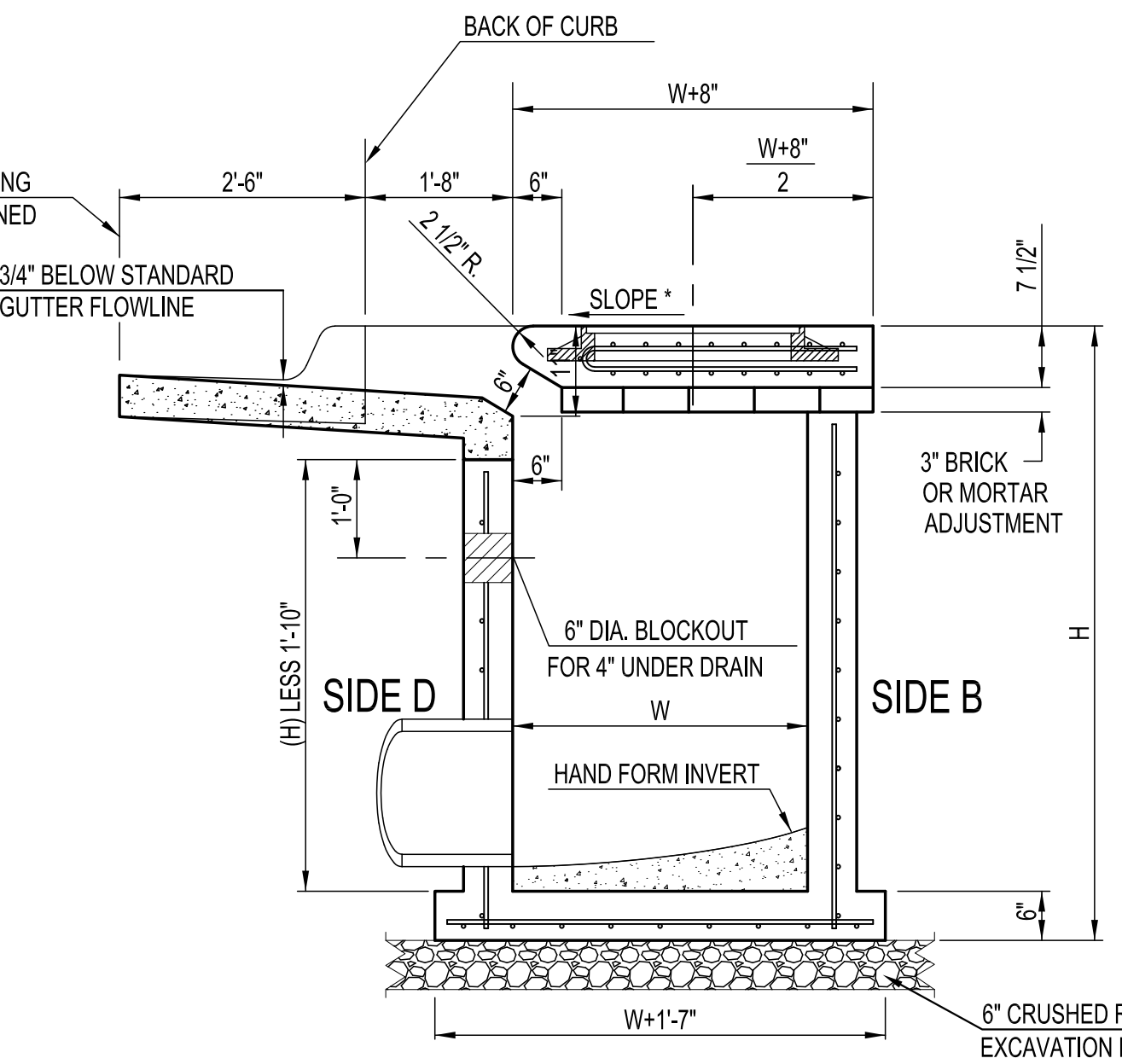
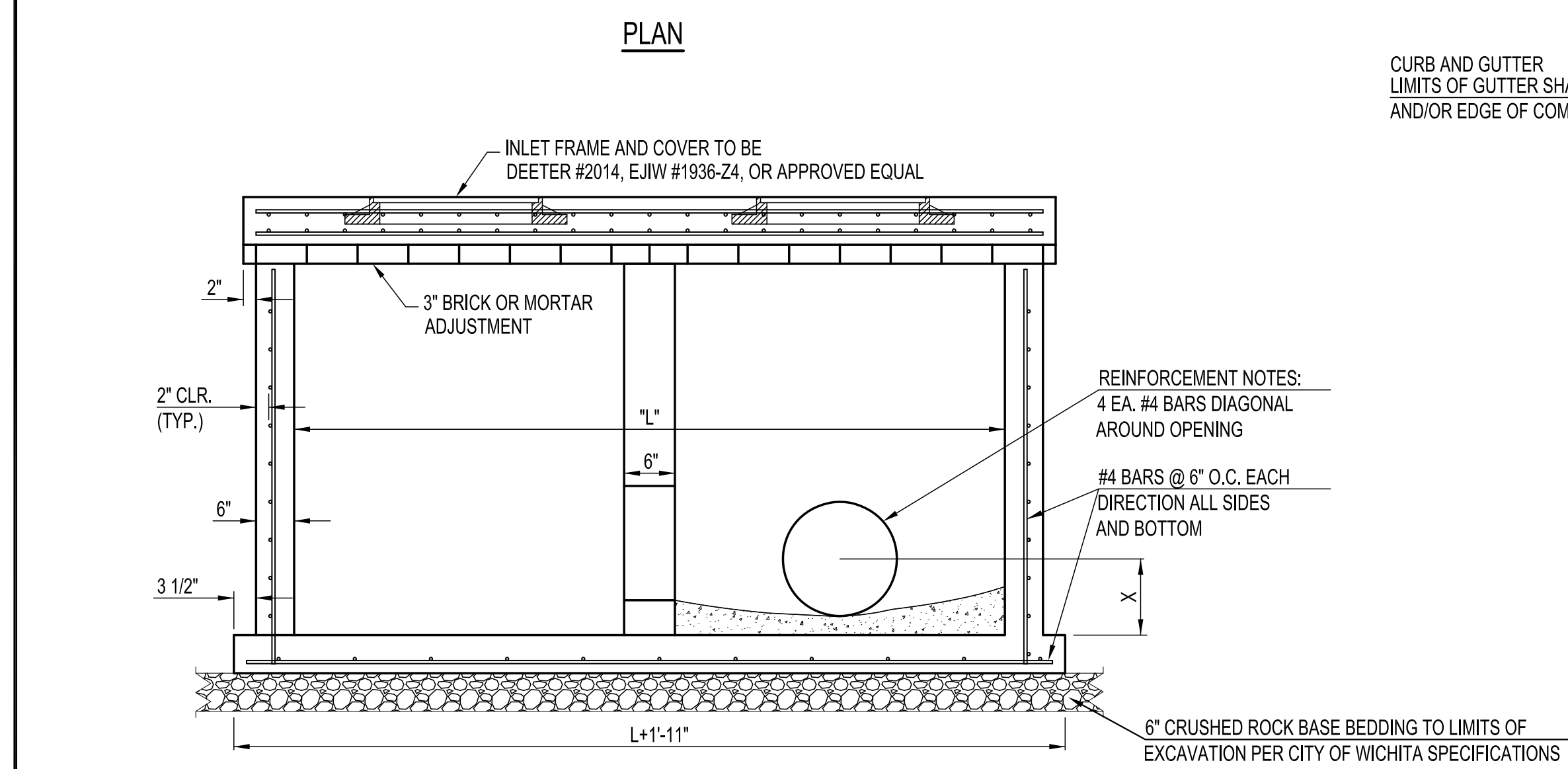
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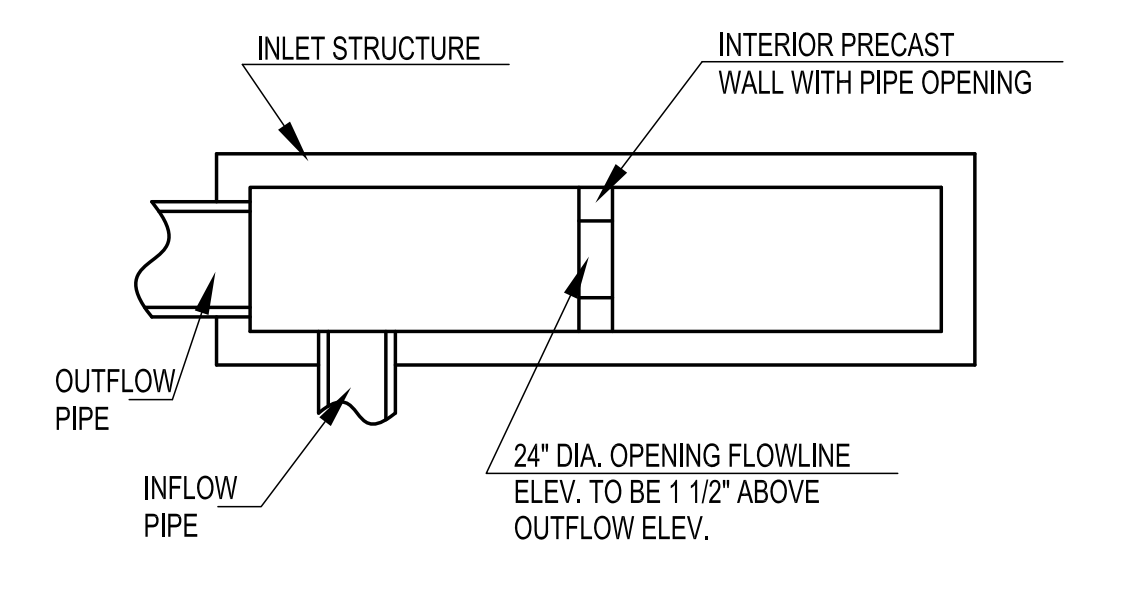
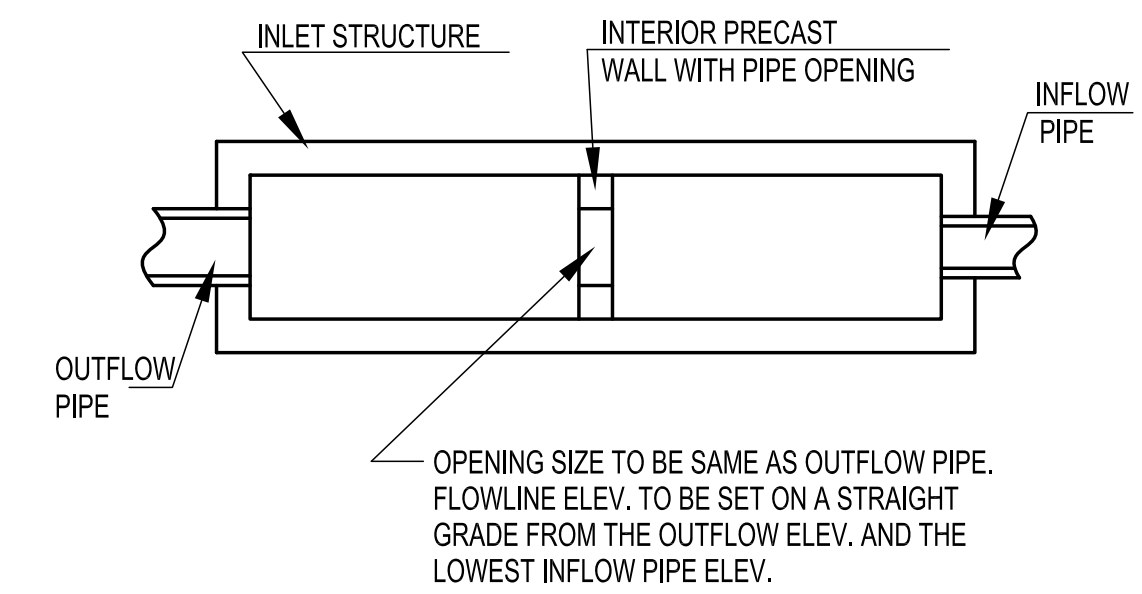
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**INNOVATION CAMPUS INFRASTRUCTURE PHASE 2**  
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WICHITA, KANSAS 67260-0023  
DRAWN BY: SPE  
CHECKED BY: SPE  
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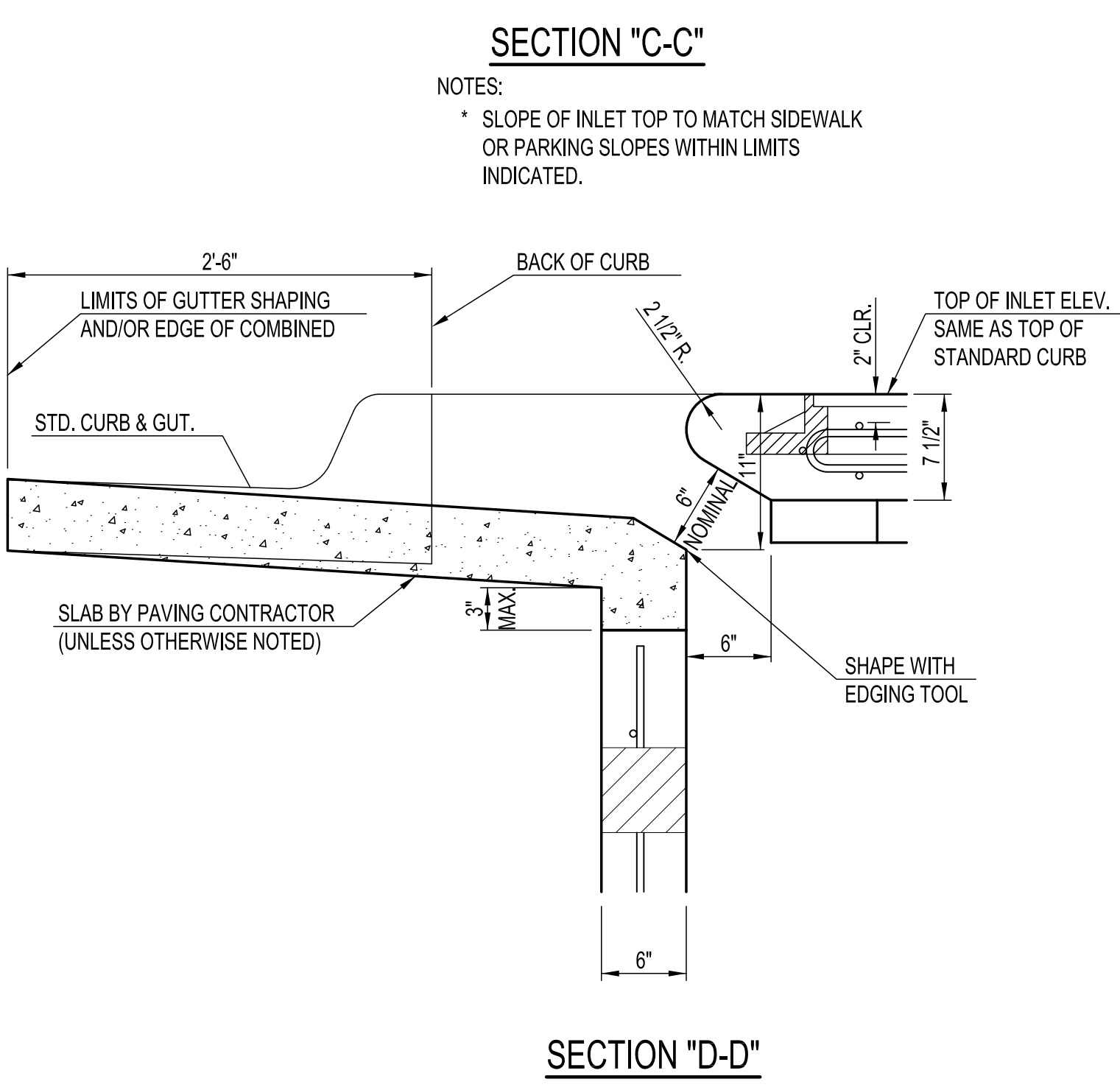
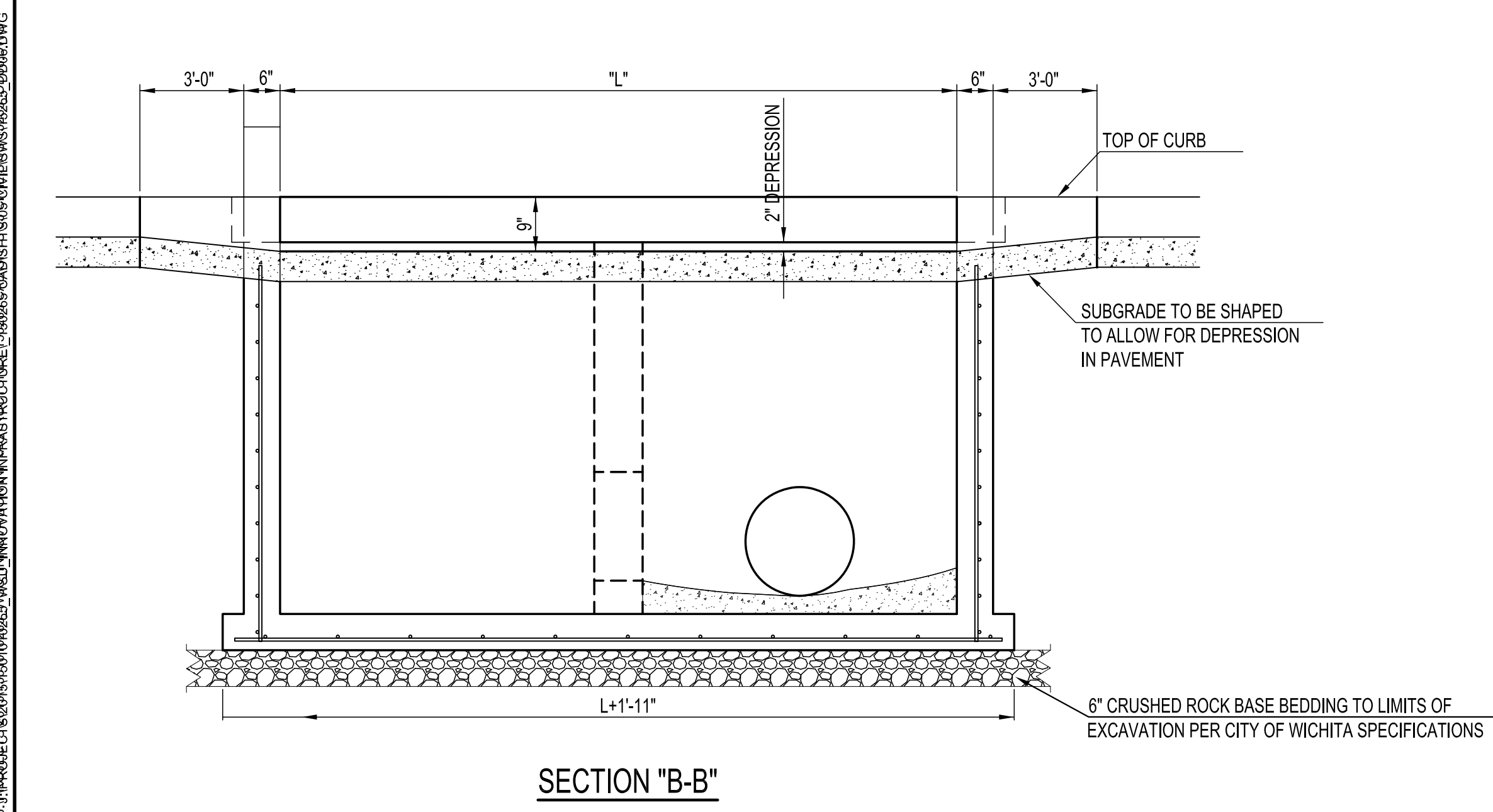
**TYPE 1A CURB INLET - 15'**  
A-012817(a)  
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ORIGINAL CONTRACT DOCUMENTS



- NOTES:**
- \* SLOPE OF INLET TOP TO MATCH SIDEWALK OR PARKING SLOPES WITHIN LIMITS INDICATED.
  - \*\* AN INTERIOR WALL OPENING SHALL BE PROVIDED. SEE CASE I AND CASE II.



NOTE: INTERIOR WALL OPENING SIZE SHALL BE AS SPECIFIED IN THE INLET CONSTRUCTION NOTE ON THE PLAN/PROFILE SHEETS FOR THOSE CASES NOT SHOWN HERE.



C.O.W. DETAIL #SW104











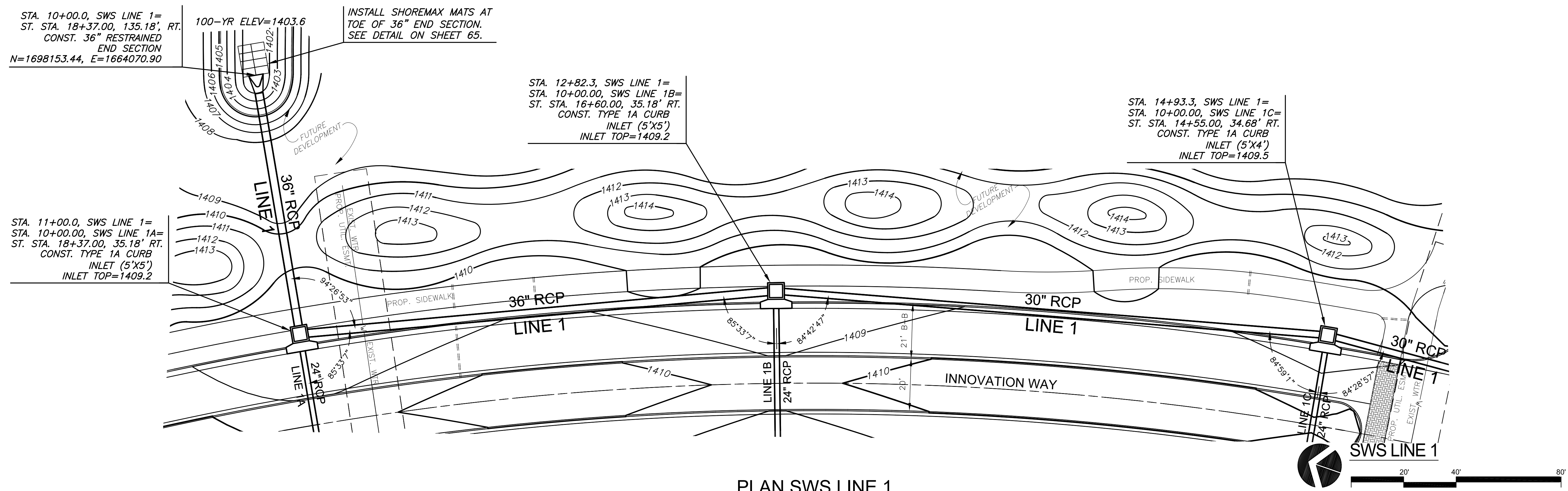
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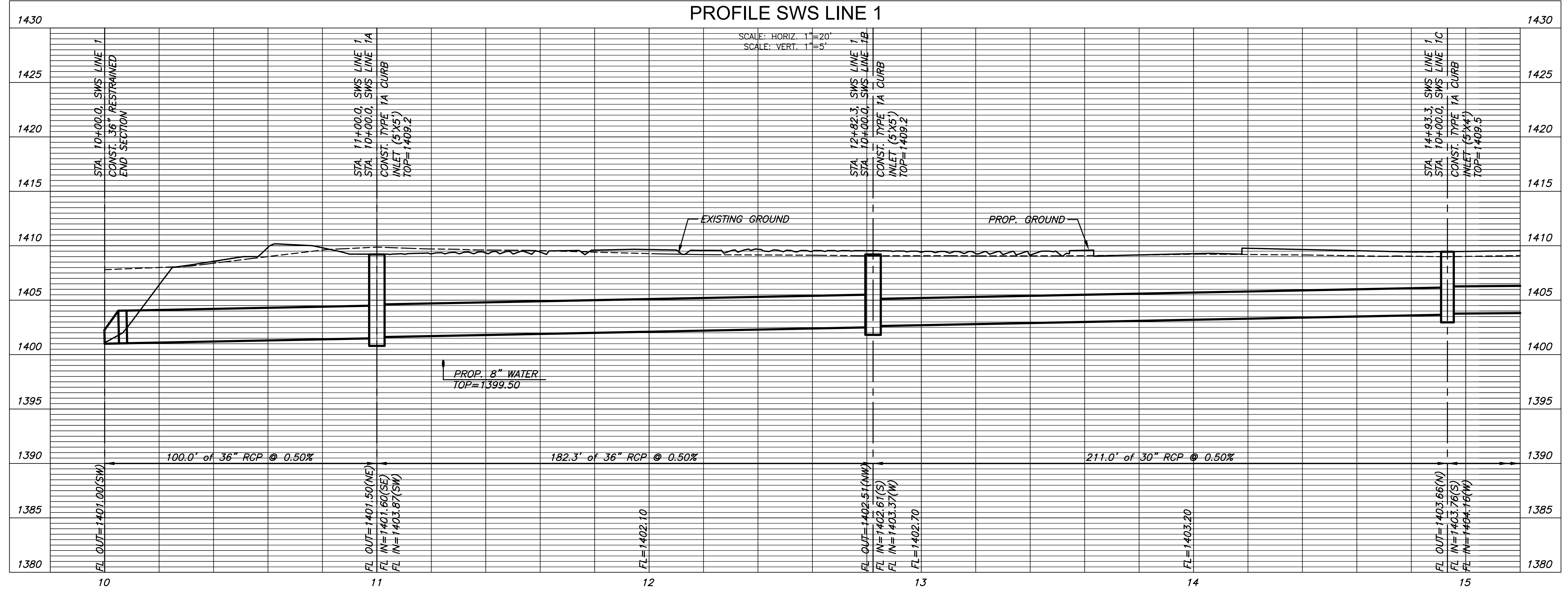
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SWS LINE 1  
A-012817(a)  
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ORIGINAL CONTRACT DOCUMENTS



**PLAN SWS LINE 1  
PROFILE SWS LINE 1**



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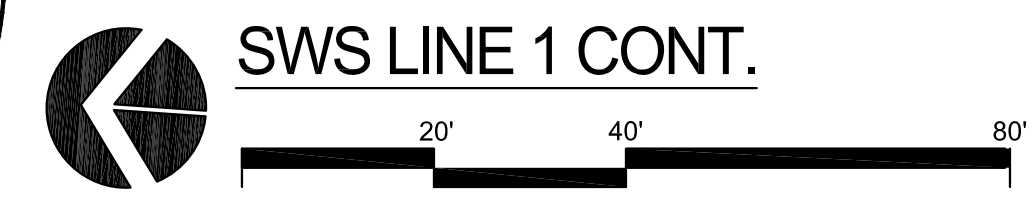
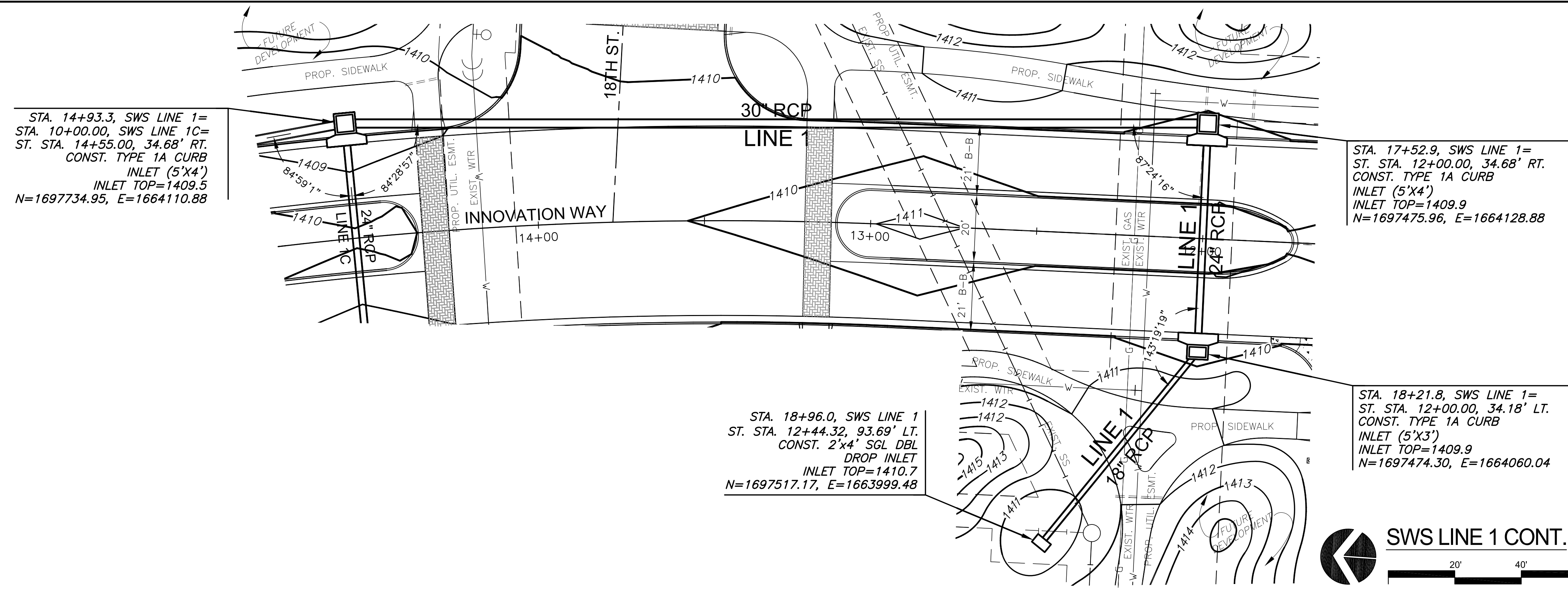
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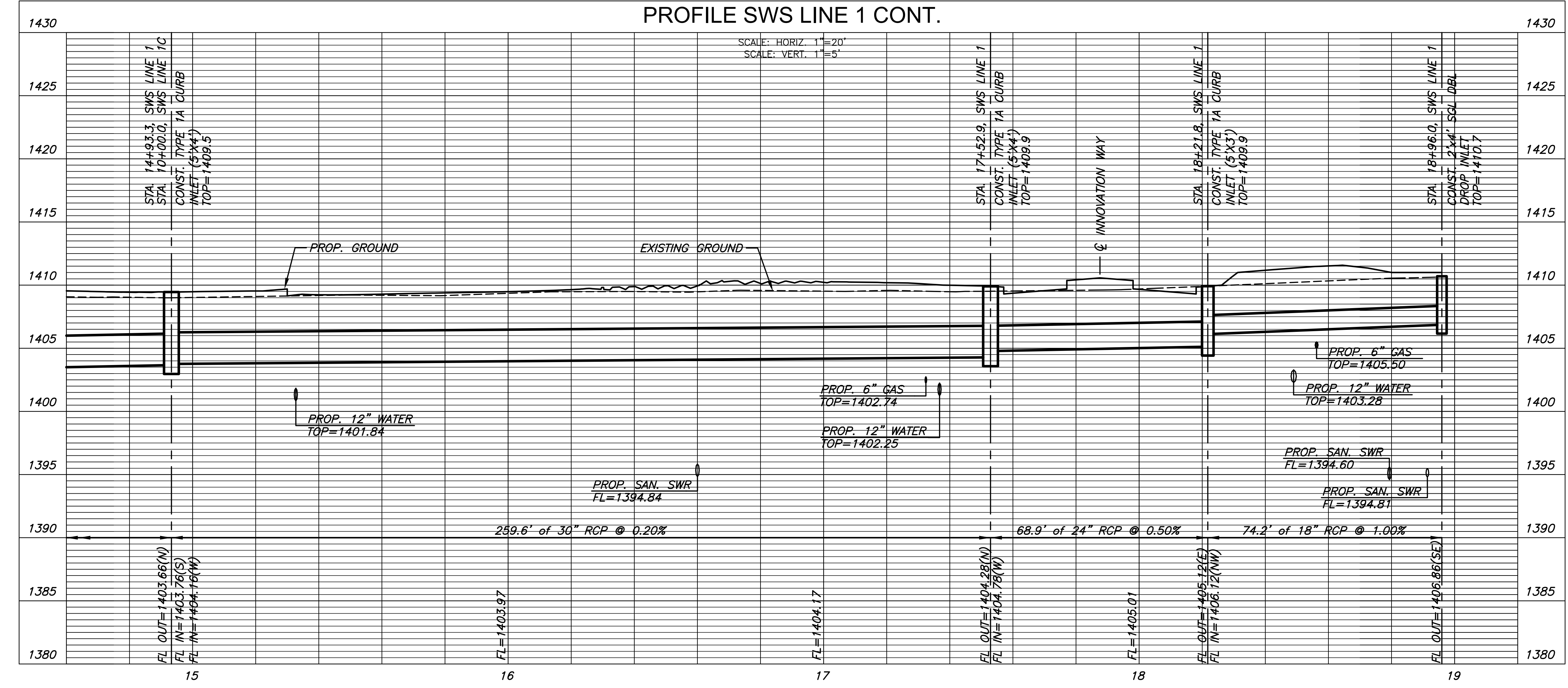
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ORIGINAL CONTRACT DOCUMENTS



PLAN SWS LINE 1 CONT.  
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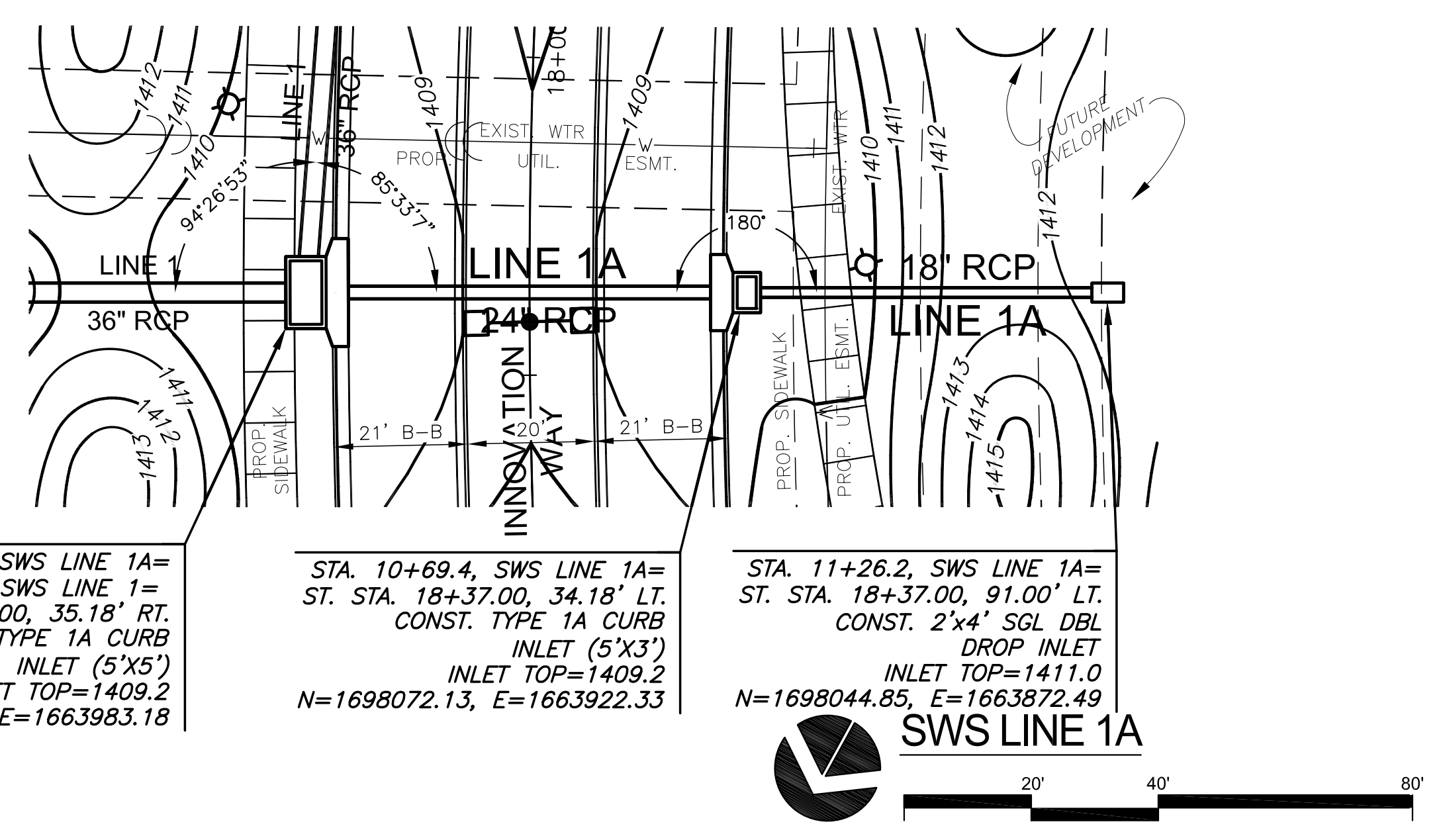
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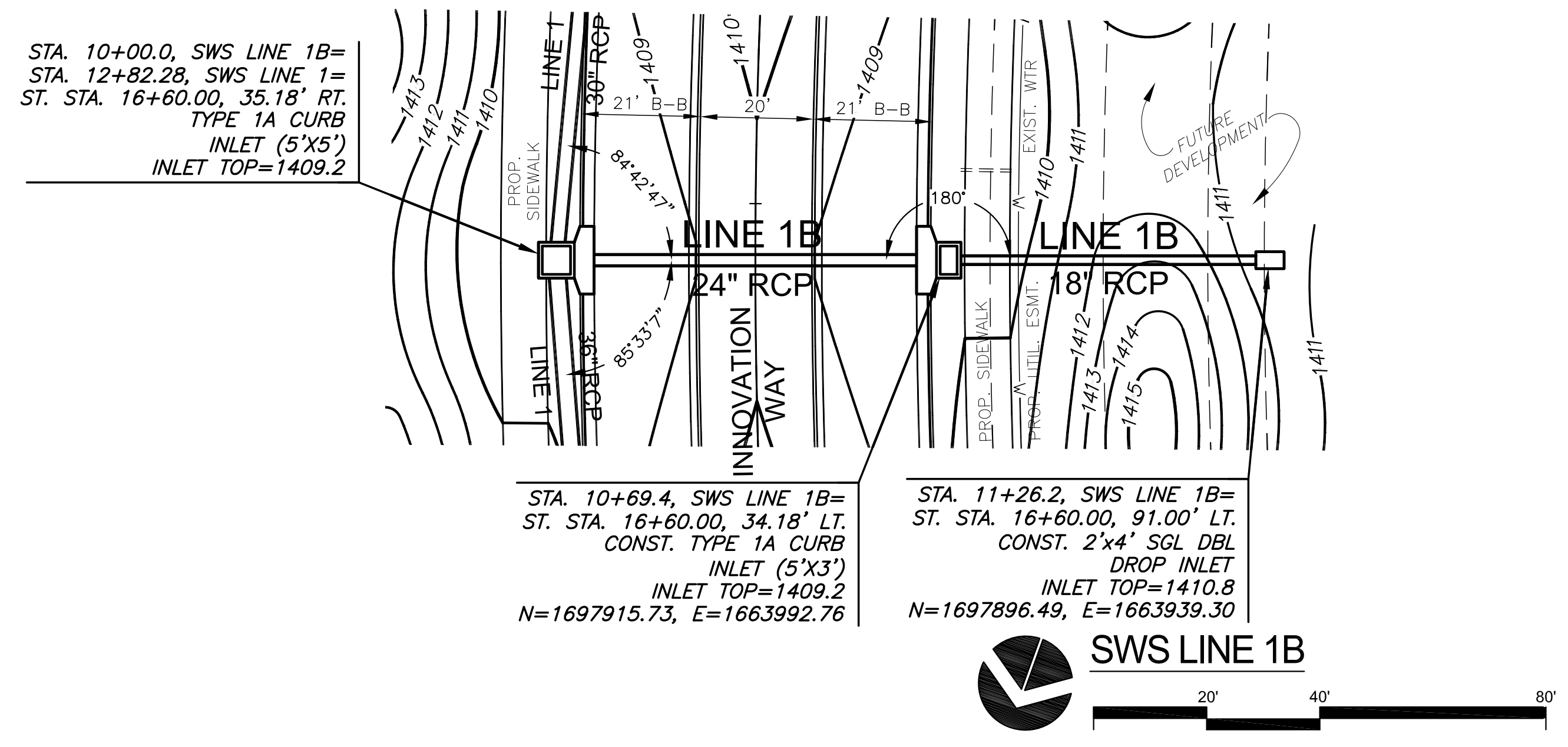
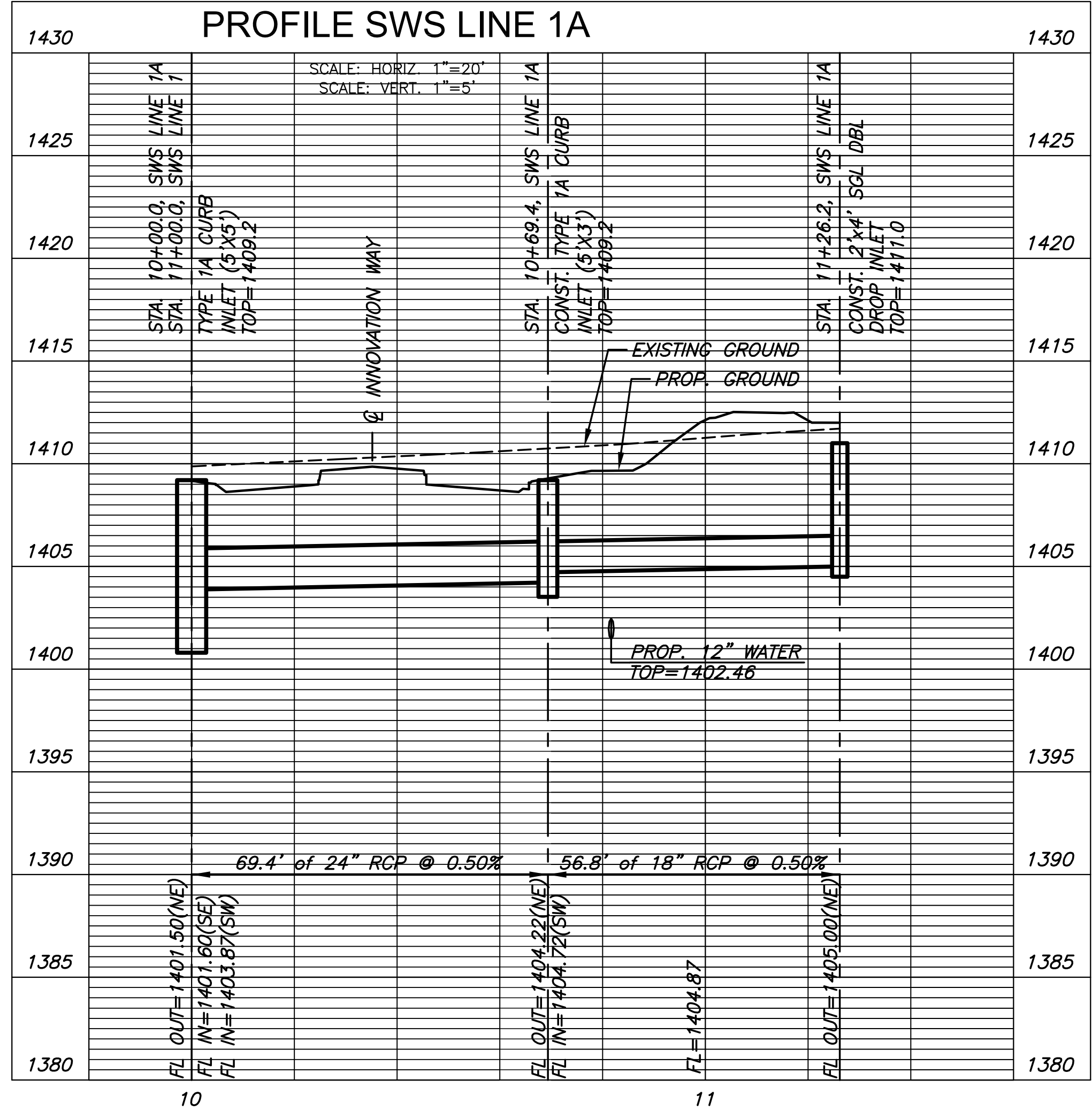
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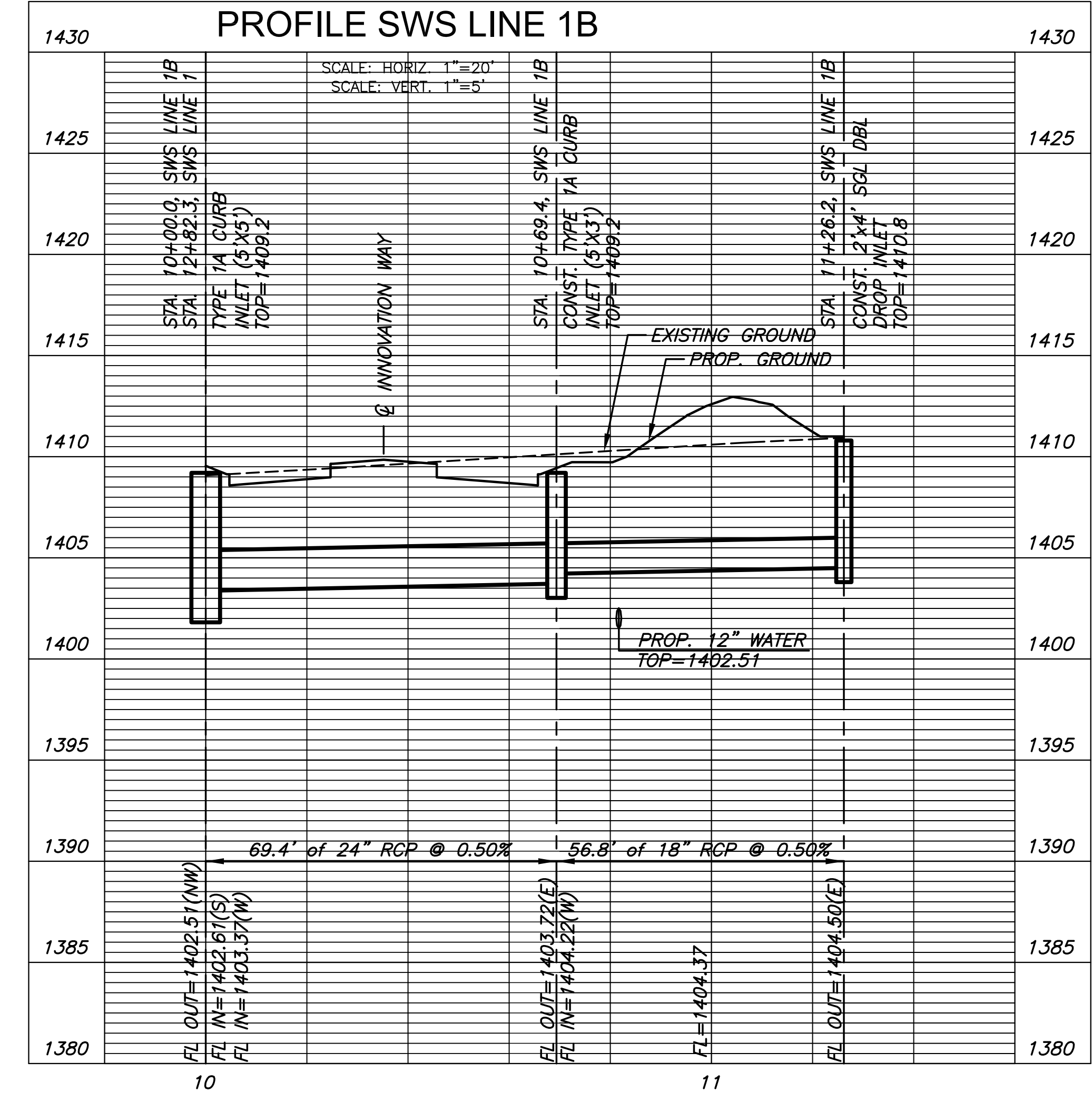
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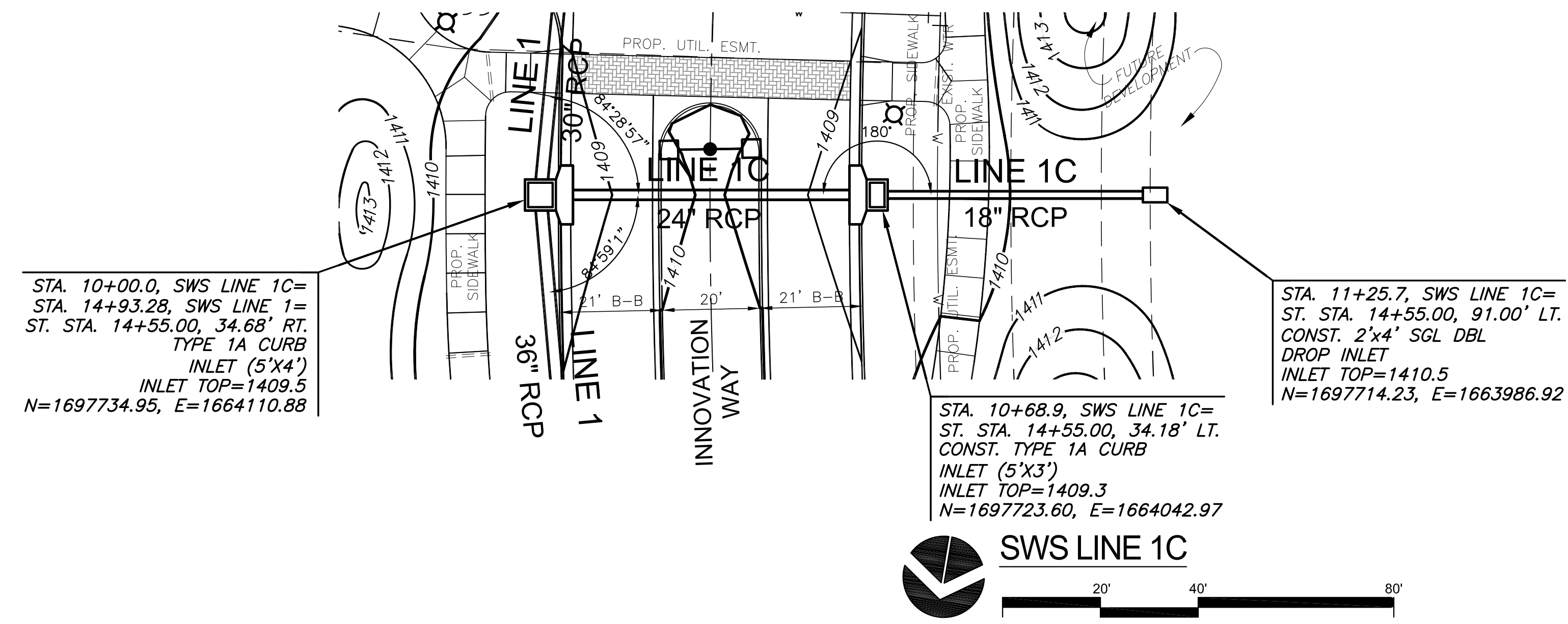
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**PLAN SWS LINE 1B**  
**PROFILE SWS LINE 1B**



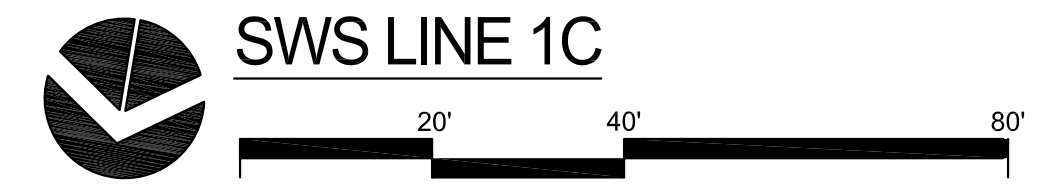
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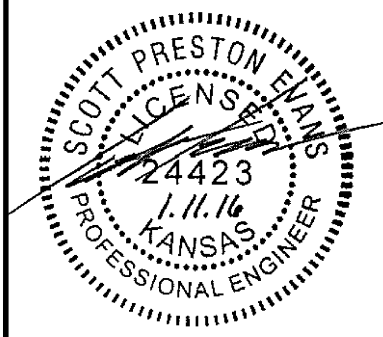
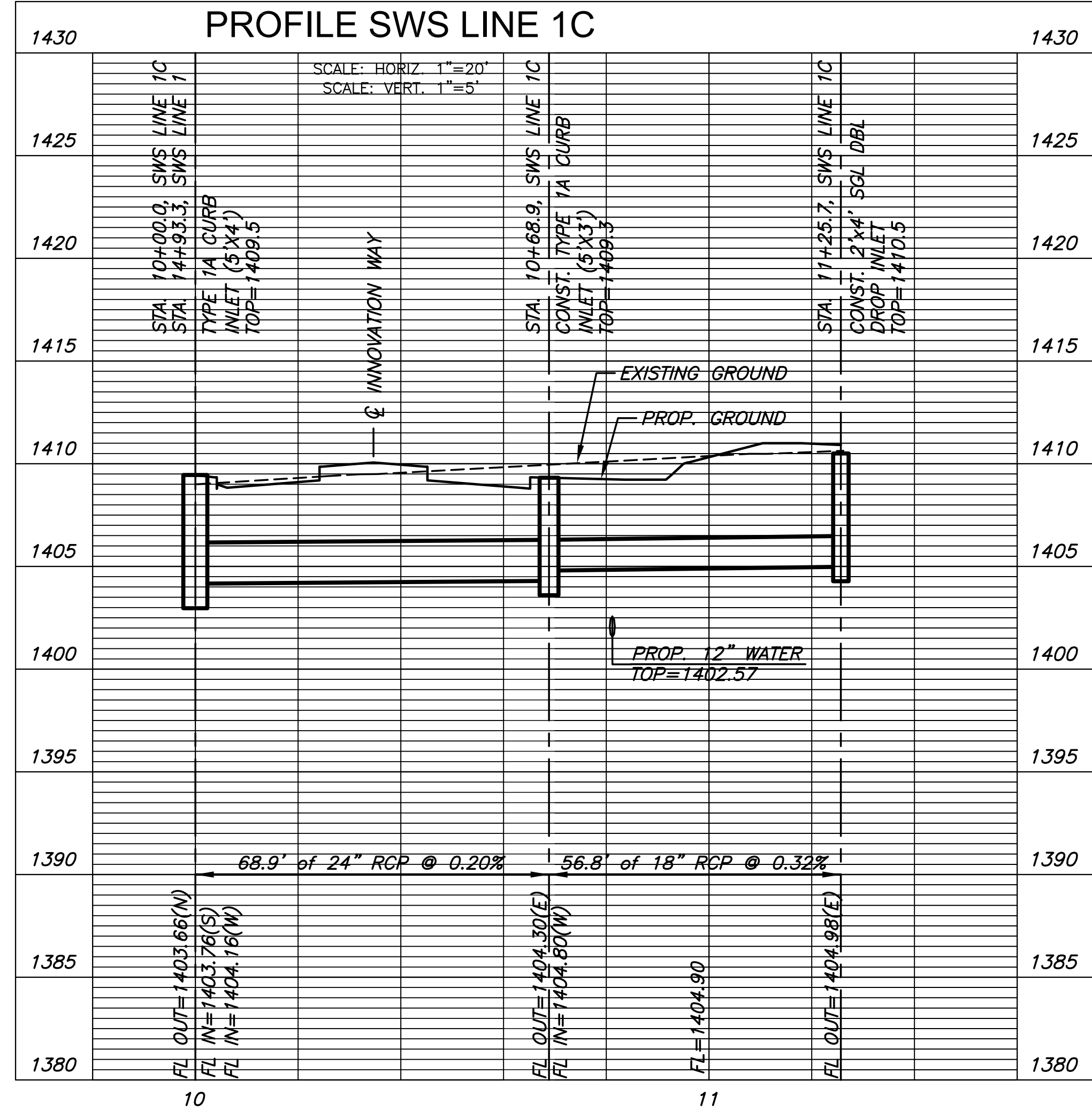
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 TYPE 1A CURB  
 INLET (5'X4')  
 INLET TOP=1409.5  
 N=1697734.95, E=1664110.88

STA. 11+25.7, SWS LINE 1C=  
 ST. STA. 14+55.00, 91.00' LT.  
 CONST. 2'X4' SGL DBL  
 DROP INLET  
 INLET TOP=1410.5  
 N=1697714.23, E=1663986.92

STA. 10+68.9, SWS LINE 1C=  
 ST. STA. 14+55.00, 34.18' LT.  
 CONST. TYPE 1A CURB  
 INLET (5'X3')  
 INLET TOP=1409.3  
 N=1697723.60, E=1664042.97



PLAN SWS LINE 1C  
 PROFILE SWS LINE 1C



REVISION	DATE

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 WICHITA, KANSAS 67260-0047  
 Phone 316-978-3030

Department of Administration  
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 Design, Construction & Compliance  
 800 SW Jackson, Suite 700  
 Topeka, Kansas 66612-1216  
 Phone 785-296-8899

WICHITA STATE UNIVERSITY  
**INNOVATION CAMPUS INFRASTRUCTURE PHASE 2**  
 1845 FAIRMOUNT ST.  
 WICHITA, KANSAS 67260-0023  
 DATE: 11/11/2016  
 DRAWN BY: BKS  
 CHECKED BY: BLB

SWS LINE 1C  
 A-012817(a)  
 69 OF 165  
 ORIGINAL CONTRACT DOCUMENTS

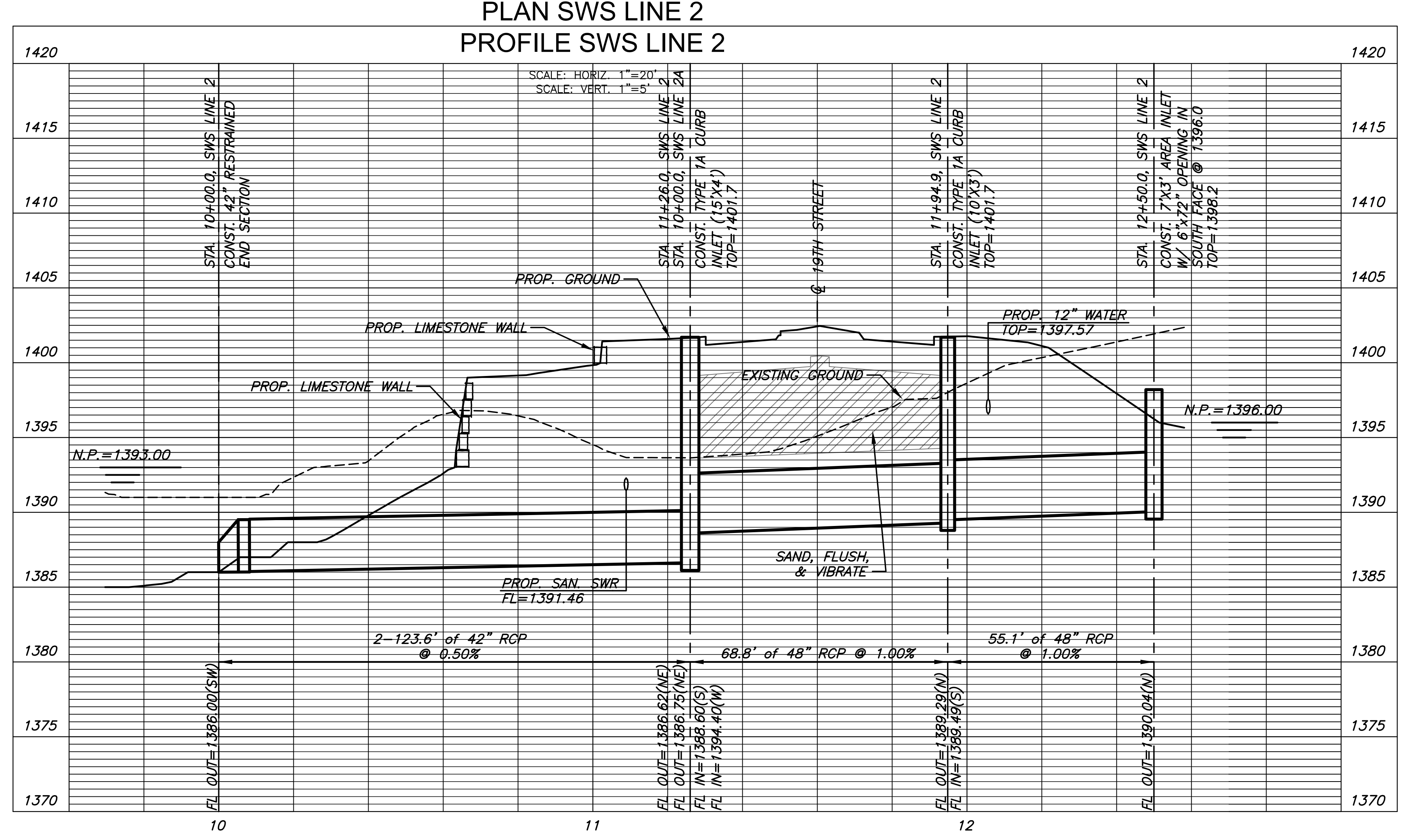
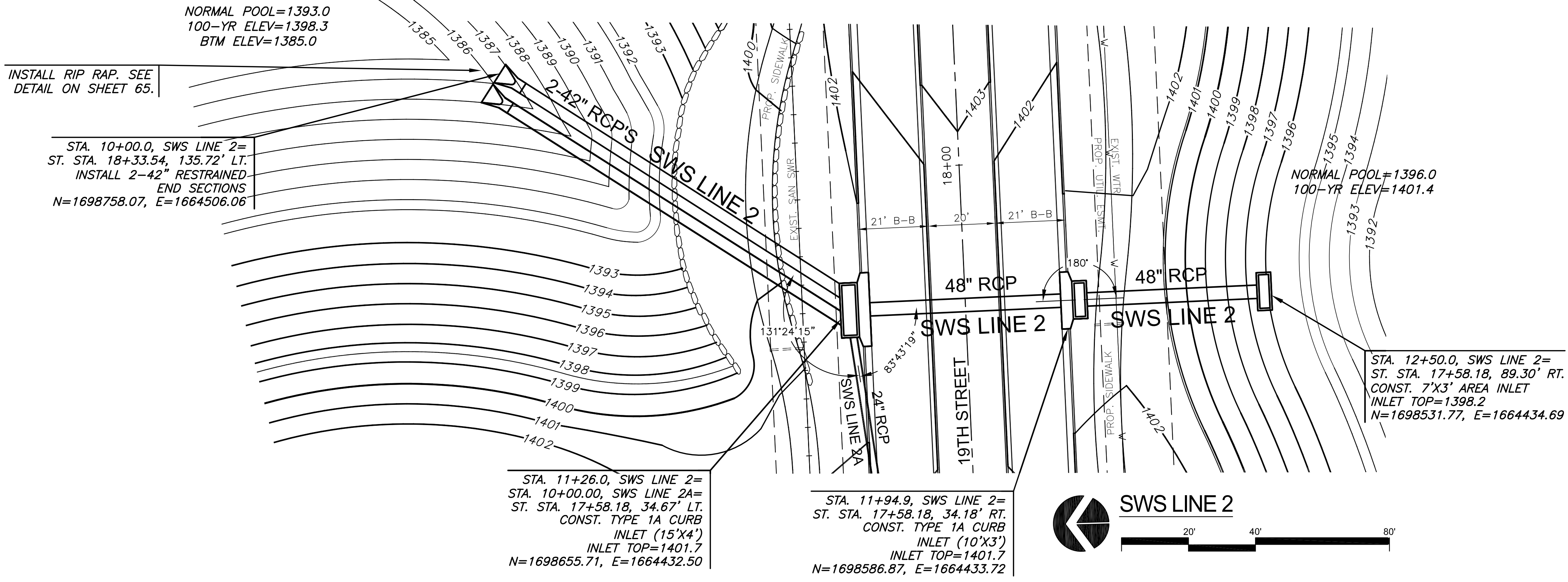
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WICHITA, KANSAS 67260-0047  
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WICHITA, KANSAS 67260-0023  
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CHECKED BY: BLB  
DATE: 11/11/2016

SWS LINE 2  
A-012817(a)  
70 OF 165  
ORIGINAL CONTRACT DOCUMENTS



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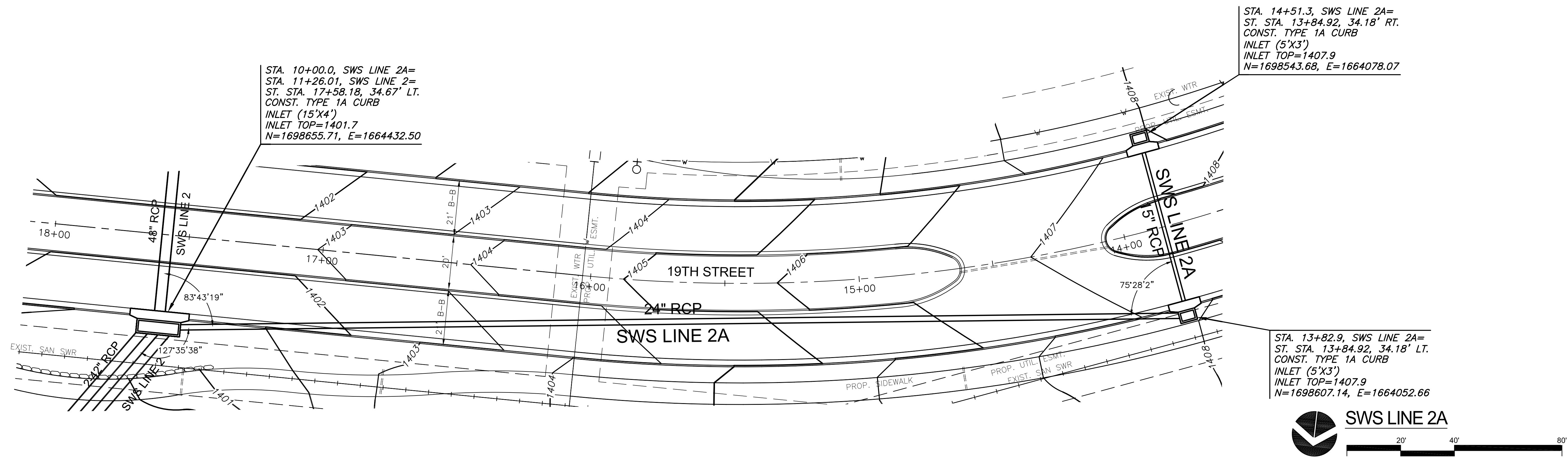
REVISION	DATE

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1845 FAIRMOUNT ST.  
WICHITA, KANSAS 67260-0023  
DRAWN BY: BKS  
CHECKED BY: BLB  
DATE: 11/11/2016

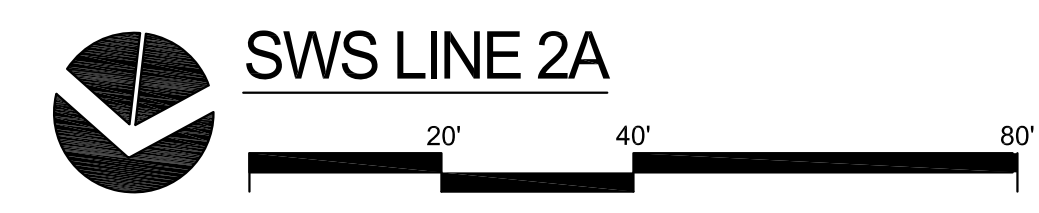
SWS LINE 2A  
A-012817(a)  
71 OF 165  
ORIGINAL CONTRACT DOCUMENTS



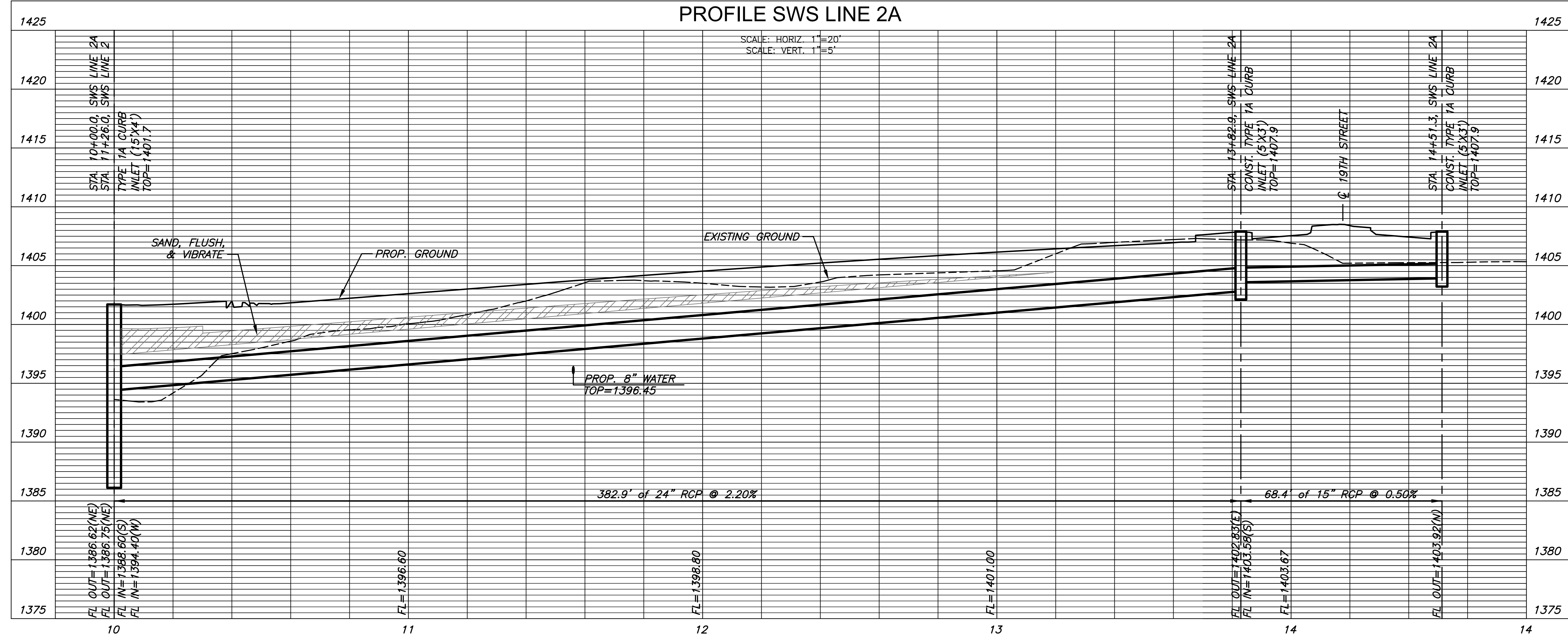
STA. 10+00.0, SWS LINE 2A=  
STA. 11+26.01, SWS LINE 2=  
ST. STA. 17+58.18, 34.67' LT.  
CONST. TYPE 1A CURB  
INLET (15'X4')  
INLET TOP=1401.7  
N=1698655.71, E=1664432.50

STA. 14+51.3, SWS LINE 2A=  
ST. STA. 13+84.92, 34.18' RT.  
CONST. TYPE 1A CURB  
INLET (5'X3')  
INLET TOP=1407.9  
N=1698543.68, E=1664078.07

STA. 13+82.9, SWS LINE 2A=  
ST. STA. 13+84.92, 34.18' LT.  
CONST. TYPE 1A CURB  
INLET (5'X3')  
INLET TOP=1407.9  
N=1698607.14, E=1664052.66



PLAN SWS LINE 2A  
PROFILE SWS LINE 2A



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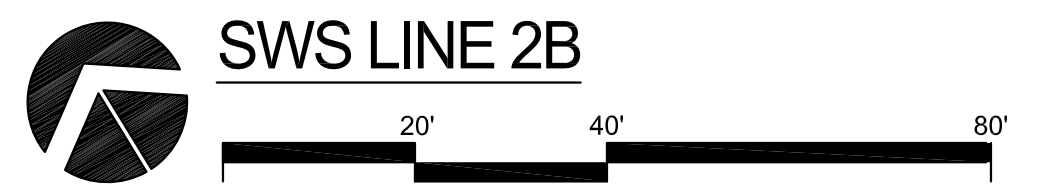
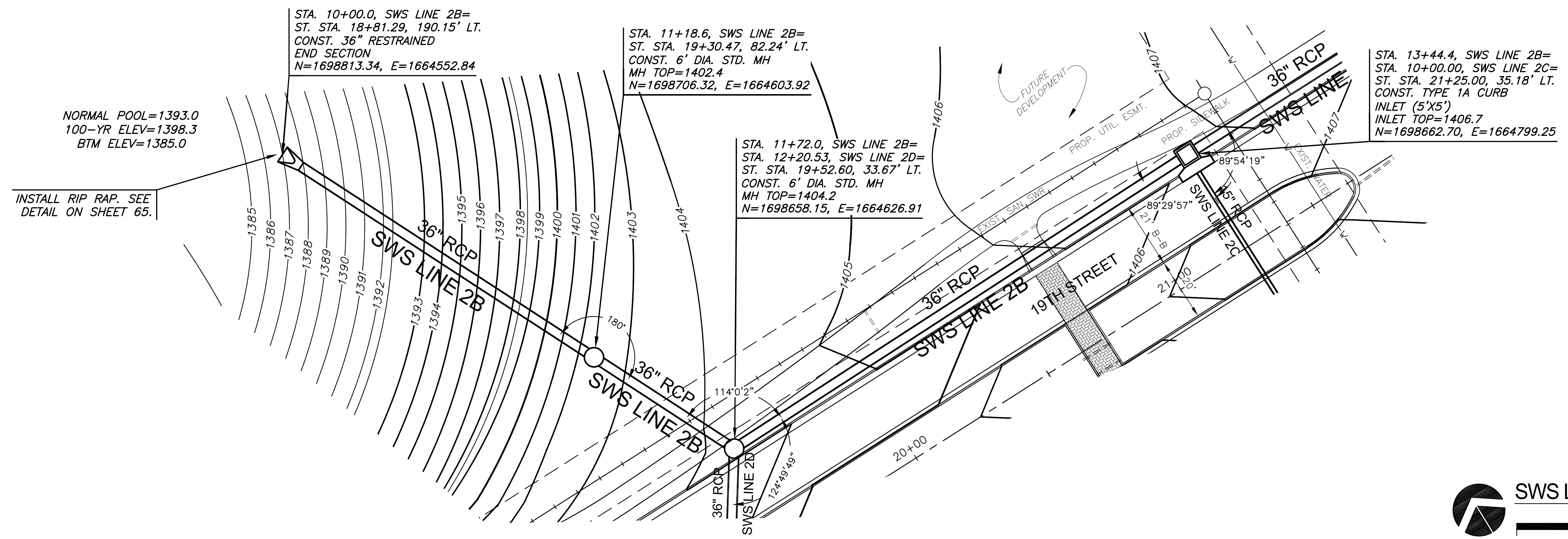
REVISION	DATE

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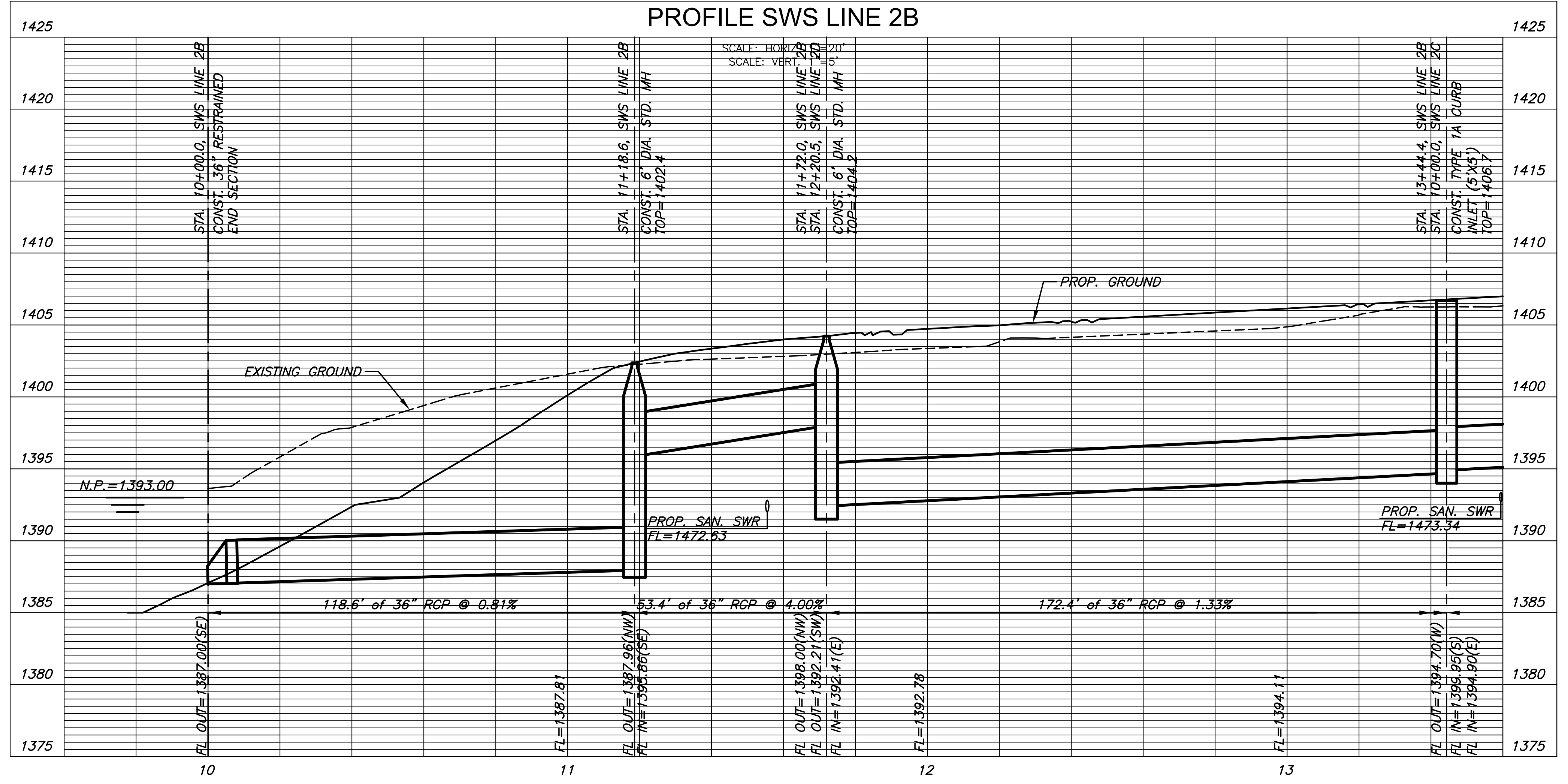
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WICHITA STATE UNIVERSITY  
**INNOVATION CAMPUS INFRASTRUCTURE  
PHASE 2**  
1845 FAIRMOUNT ST.  
WICHITA, KANSAS 67260-0023  
DATE: 11/12/16  
DRAWN BY: BKS  
CHECKED BY: BLB

SWS LINE 2B  
A-012817(a)  
72 OF 165  
ORIGINAL CONTRACT DOCUMENTS

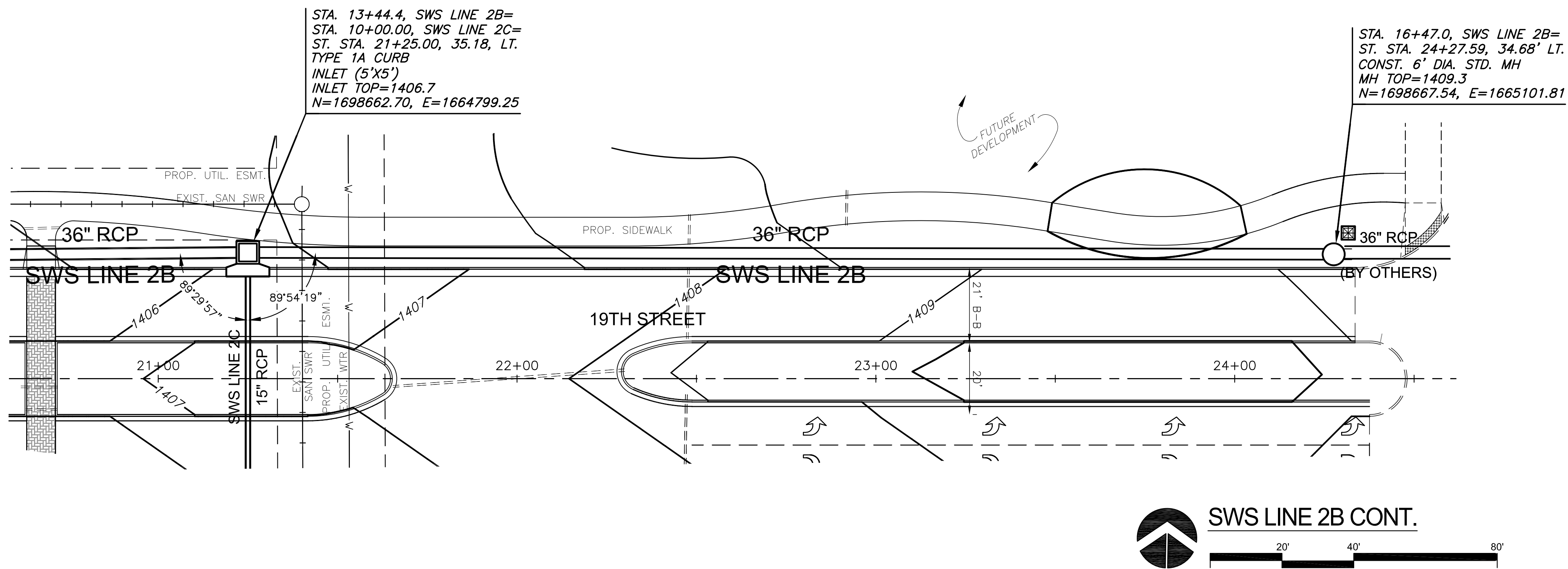


**PLAN SWS LINE 2B**  
**PROFILE SWS LINE 2B**

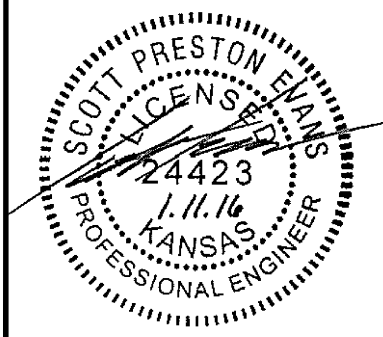
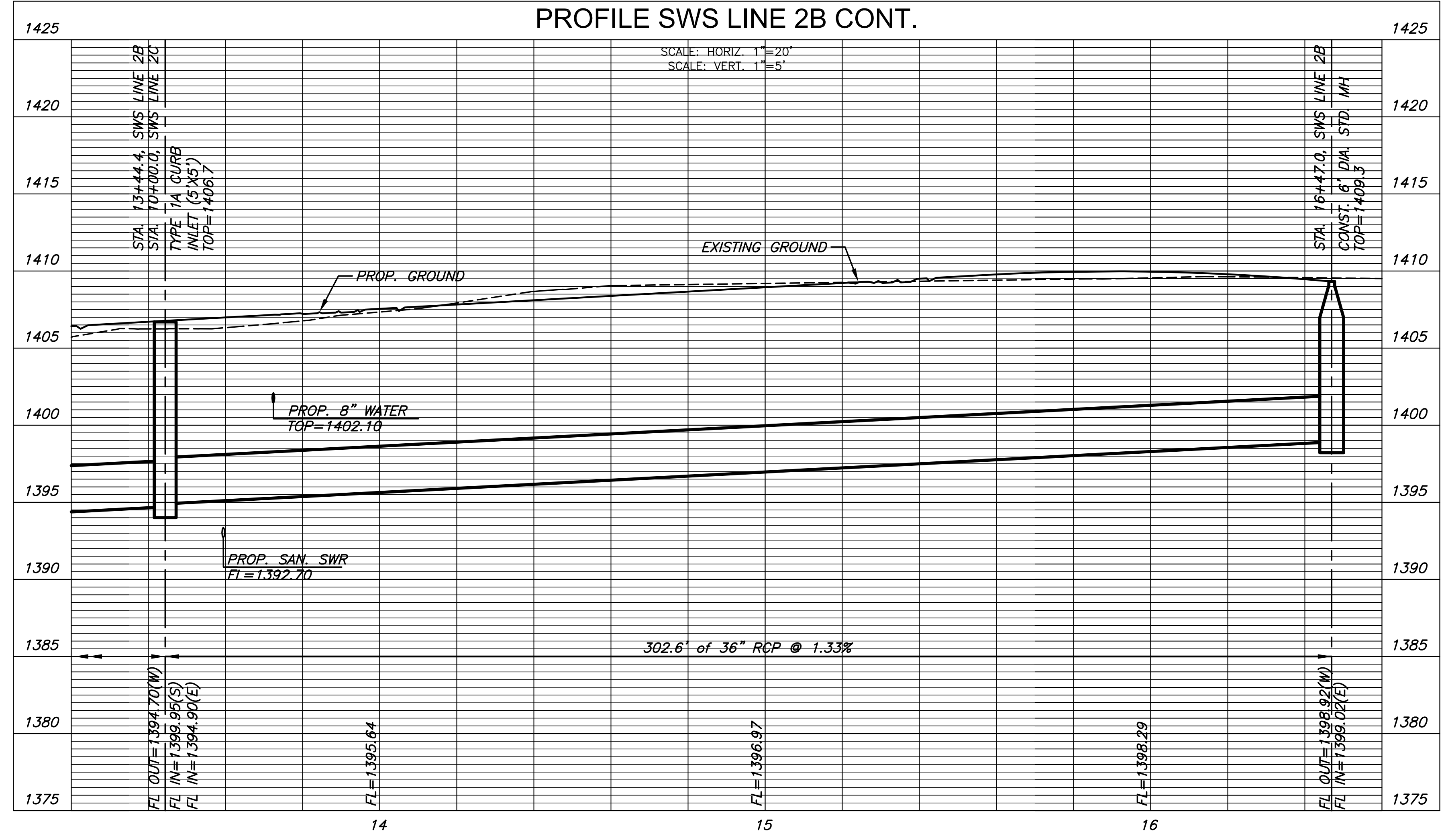


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PLAN SWS LINE 2B CONT.  
 PROFILE SWS LINE 2B CONT.



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 PHASE 2  
 1845 FAIRMOUNT ST.  
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 CHECKED BY: BLB  
 DATE: 11/11/2016

SWS LINE 2B CONT.  
 A-012817(a)  
 73 OF 165  
 ORIGINAL CONTRACT DOCUMENTS

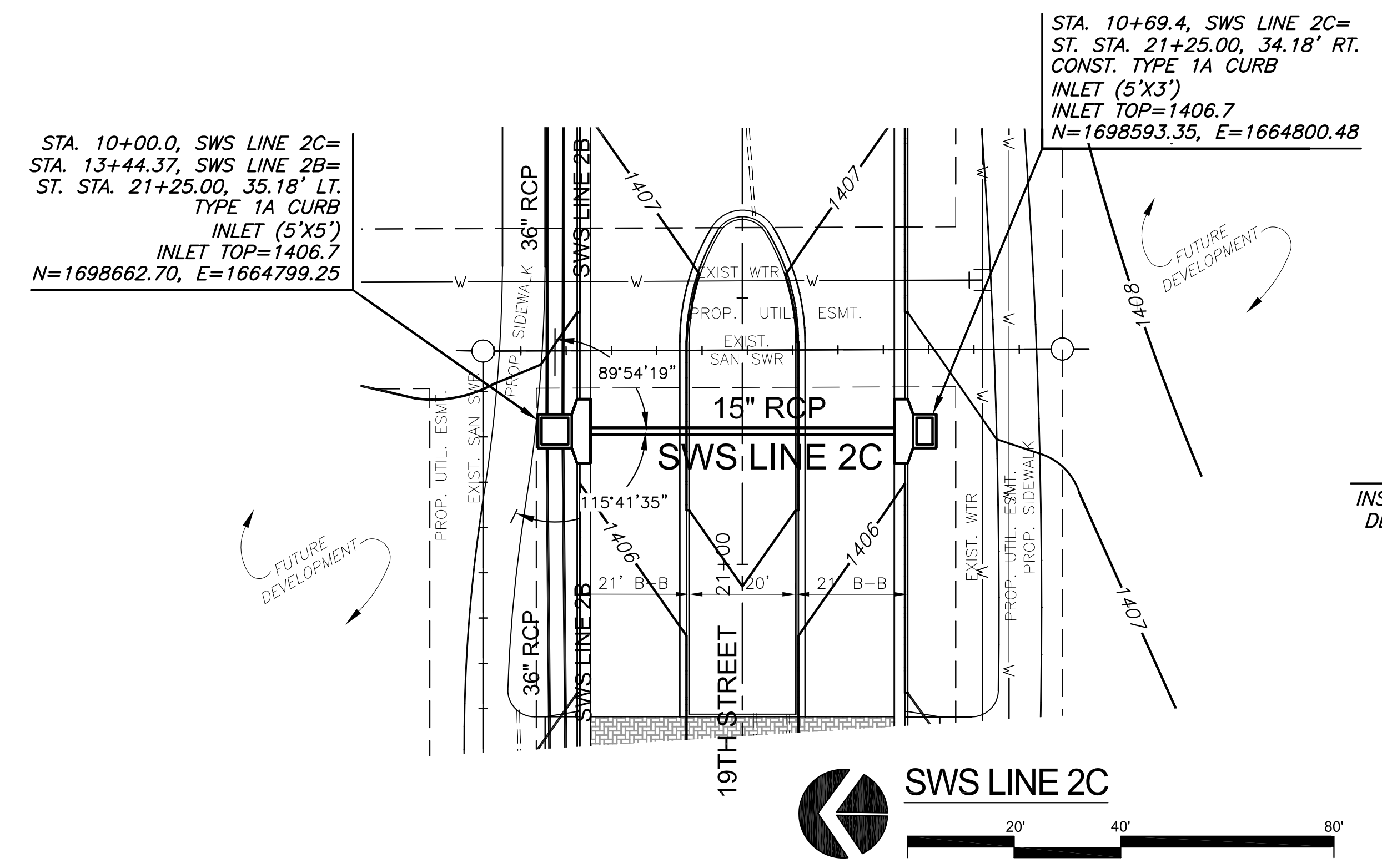
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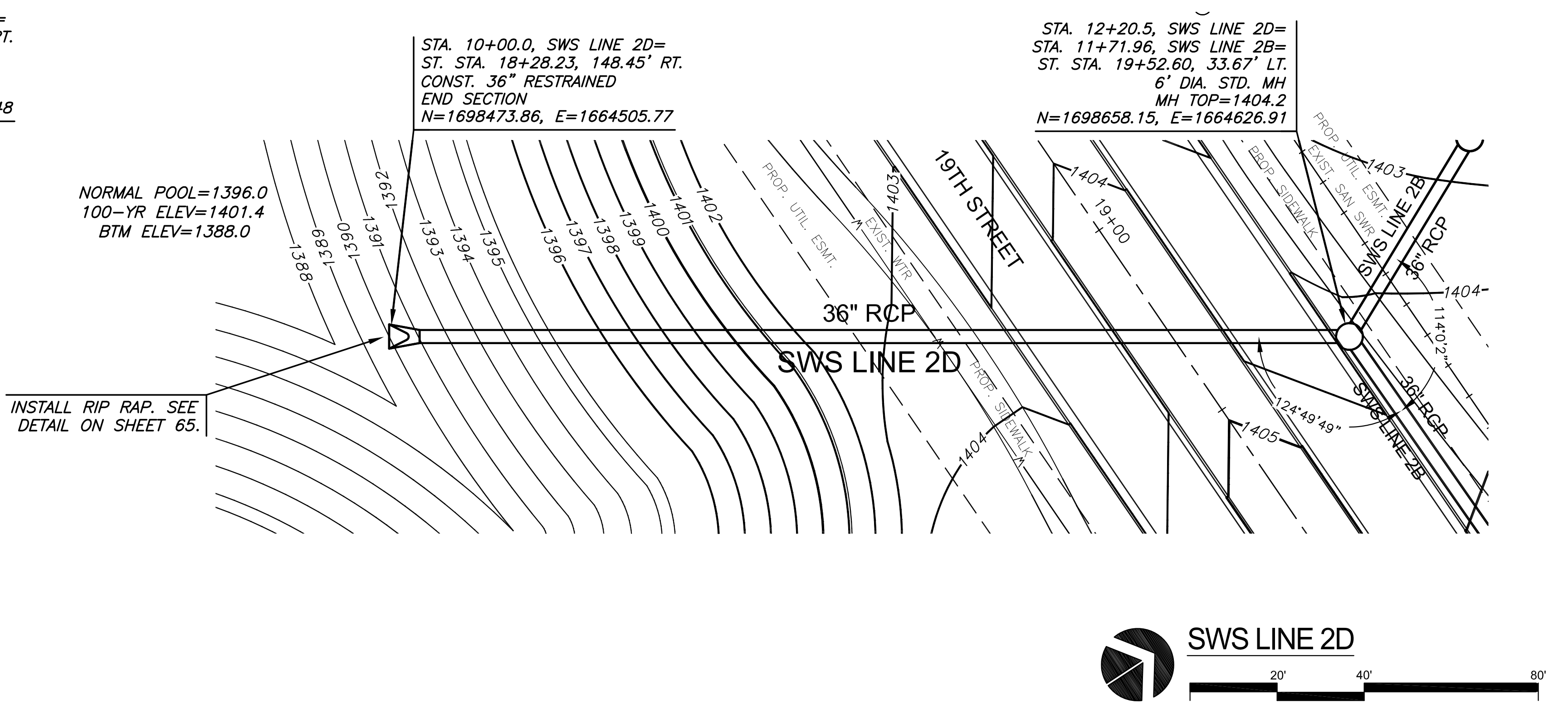
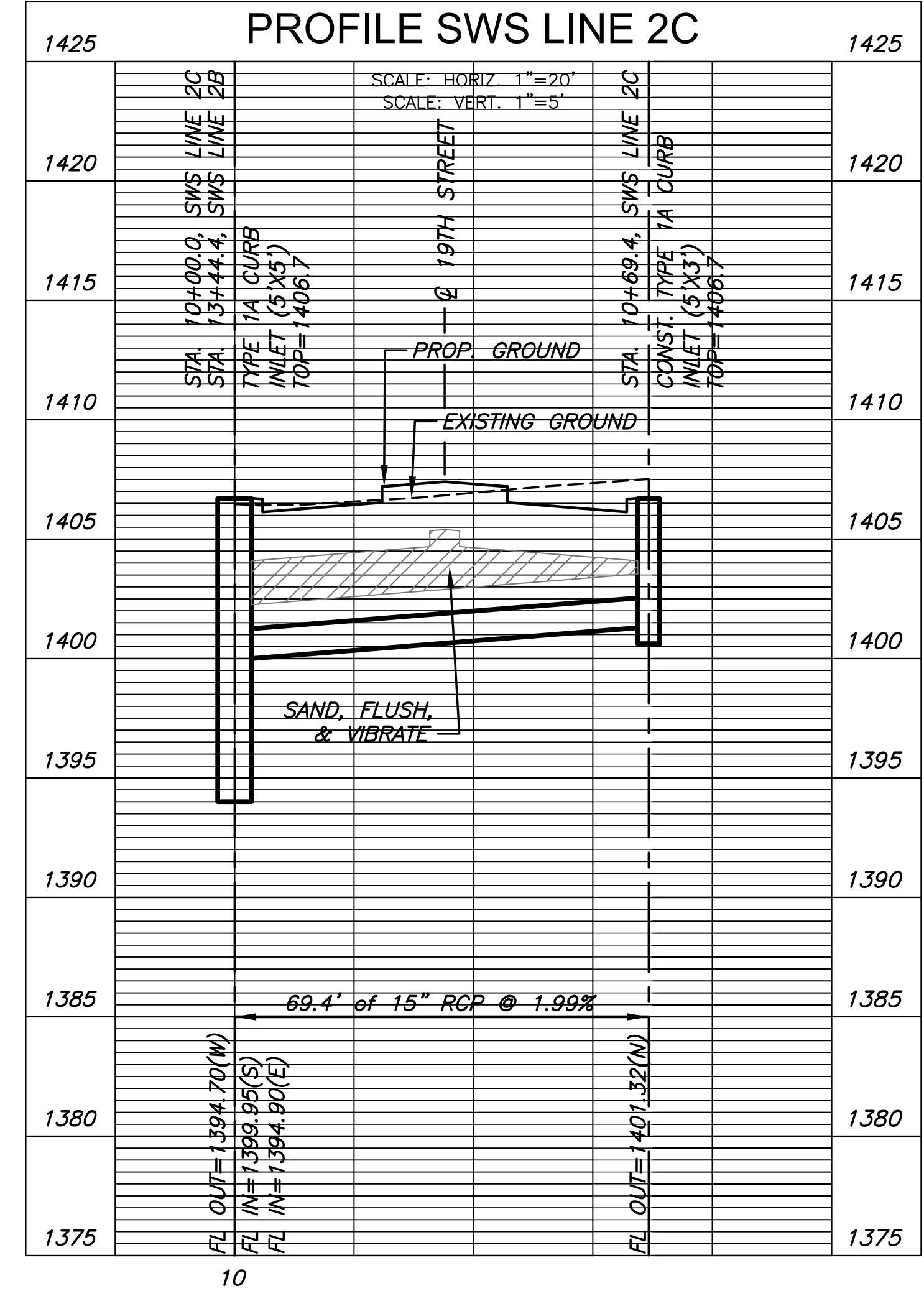
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**INNOVATION CAMPUS INFRASTRUCTURE  
PHASE 2**  
1845 FAIRMOUNT ST.  
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DRAWN BY: BKS  
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DATE: 11/11/2016

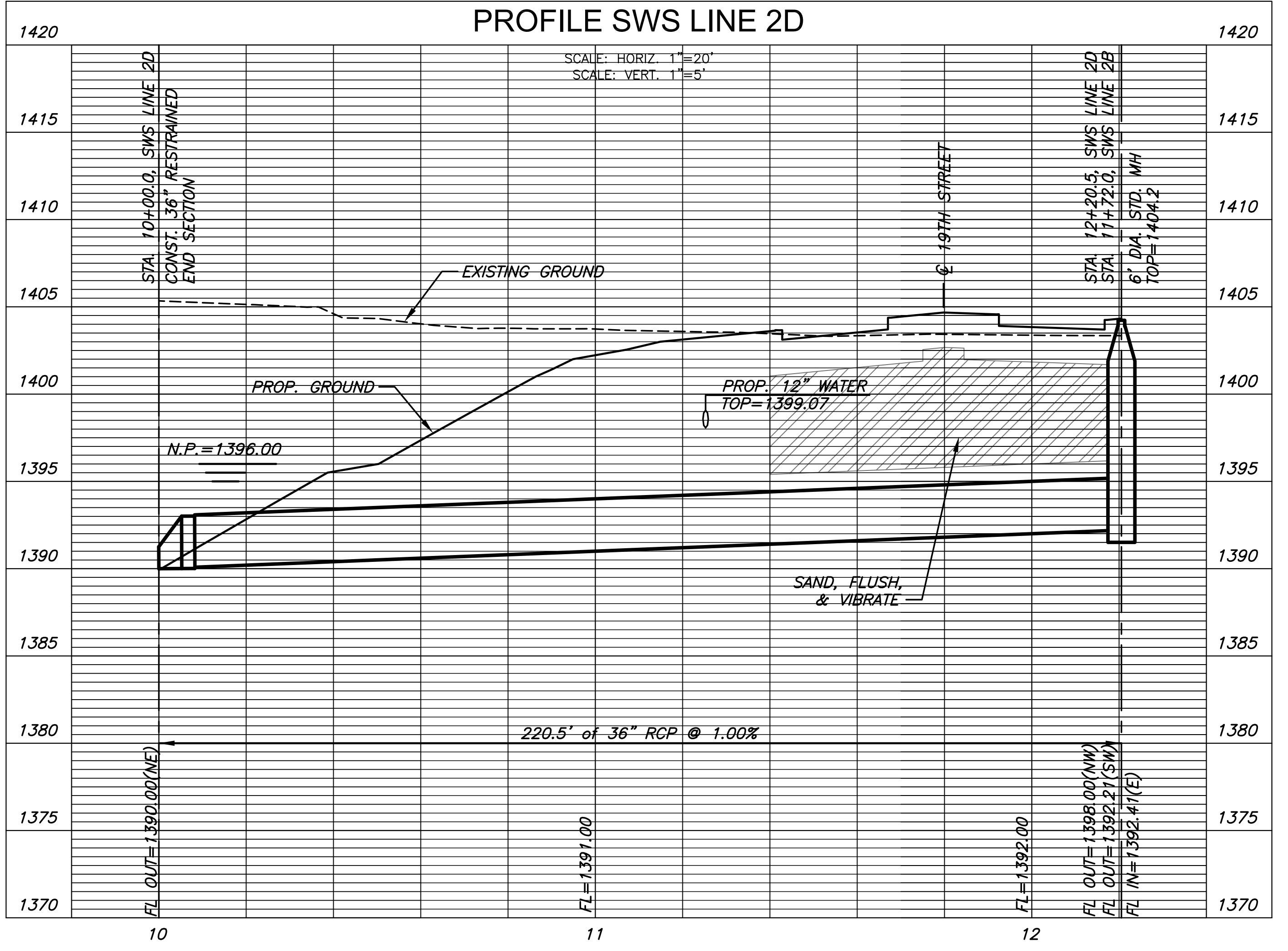
SWS LINE 2C & 2D  
A-012817(a)  
74 OF 165  
ORIGINAL CONTRACT DOCUMENTS



PLAN SWS LINE 2C  
PROFILE SWS LINE 2C



PLAN SWS LINE 2D  
PROFILE SWS LINE 2D



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WICHITA STATE UNIVERSITY  
**INNOVATION CAMPUS INFRASTRUCTURE PHASE 2**  
1845 FAIRMOUNT ST.  
WICHITA, KANSAS 67260-0023  
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DRAWN BY: WNU  
CHECKED BY:

SWS LINE 3  
A-012817(a)  
75 OF 165  
ORIGINAL CONTRACT DOCUMENTS

**BID ALTERNATE #1**  
BASE BID: CONSTRUCT EARTHWORK, SUBGRADE PREPARATION, FIBER OPTIC INFRASTRUCTURE & CABLING, SWS LINE 3, SWS LINE 3A, SWS LINE 3C, SWS LINE 3D AND SWS LINE 3E ACCORDING TO CONSTRUCTION DOCUMENTS AND SPECIFICATIONS.  
  
BID ALTERNATE: CONSTRUCT REINFORCED CRUSHED AGGREGATE BASE, CONCRETE PAVEMENT, BRICK PAVERS, LIMESTONE BENCH, RAISED BRICK SEAT WALL, SWS LINE 3B, SWS TRENCH DRAINS, PEDESTRIAN LIGHTING FIXTURES, POLES, & ASSOCIATED UNDERGROUND POWER, LANDSCAPE AND IRRIGATION WITHIN THE AREA DENOTED ACCORDING TO CONSTRUCTION DOCUMENTS AND SPECIFICATIONS.

STA. 11+83.5, SWS LINE 3=  
CL STA. 15+80.82, 63.09' LT.  
CONST. 6" DIA. STD. MH  
MH TOP=1408.2  
N=1697745.80, E=1663217.11

INSTALL RIP RAP. SEE  
DETAIL ON SHEET 65.

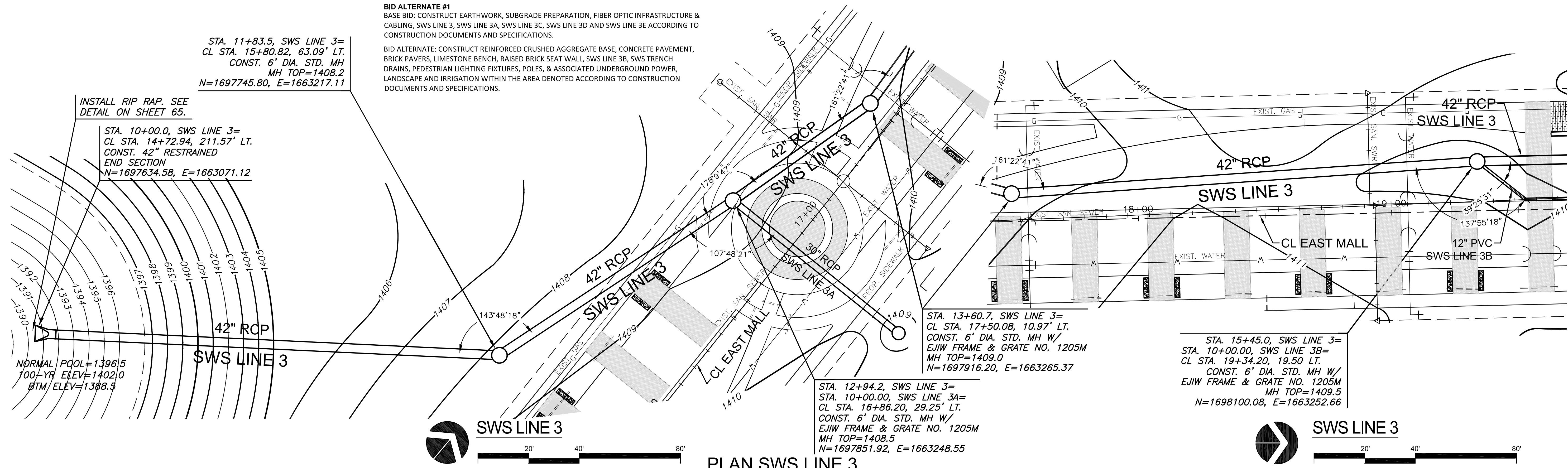
STA. 10+00.0, SWS LINE 3=  
CL STA. 14+72.94, 211.57' LT.  
CONST. 42" RESTRAINED  
END SECTION  
N=1697634.58, E=1663071.12

NORMAL POOL=1396.5  
100-YR ELEV=1402.0  
BTM/ELEV=1388.5

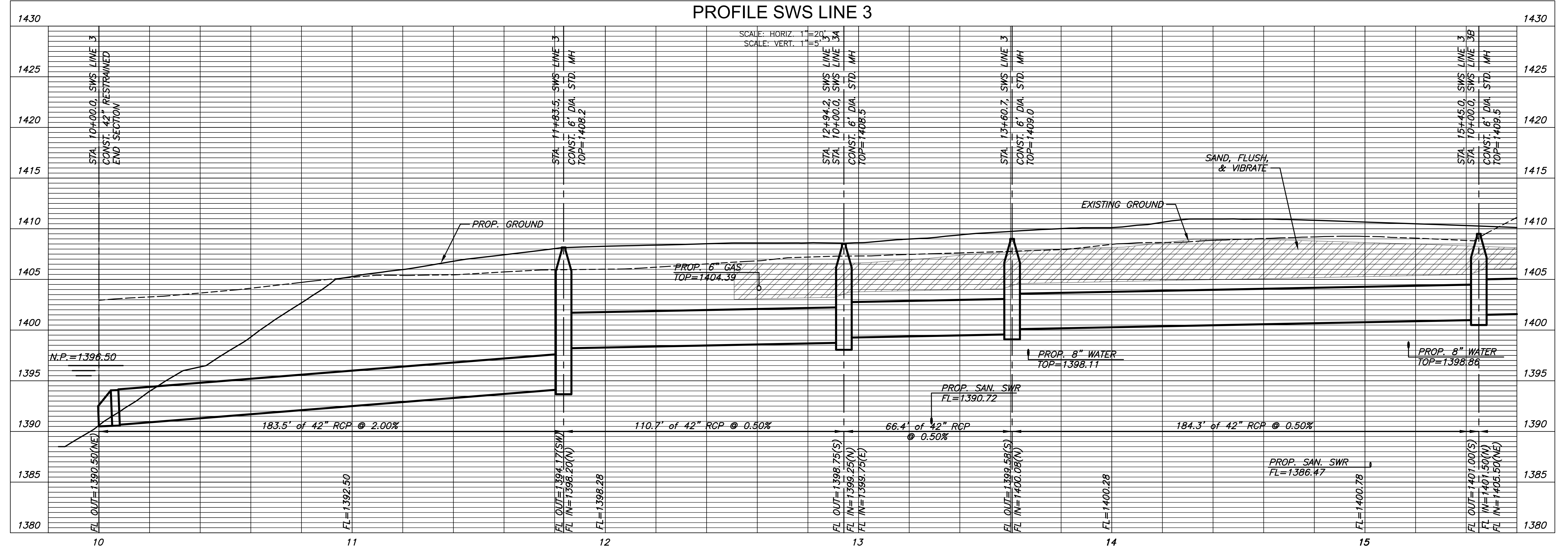
STA. 13+60.7, SWS LINE 3=  
CL STA. 17+50.08, 10.97' LT.  
CONST. 6" DIA. STD. MH W/  
EJIW FRAME & GRATE NO. 1205M  
MH TOP=1409.0  
N=1697916.20, E=1663265.37

STA. 15+45.0, SWS LINE 3=  
STA. 10+00.00, SWS LINE 3B=  
CL STA. 19+34.20, 19.50 LT.  
CONST. 6" DIA. STD. MH W/  
EJIW FRAME & GRATE NO. 1205M  
MH TOP=1409.5  
N=1698100.08, E=1663252.66

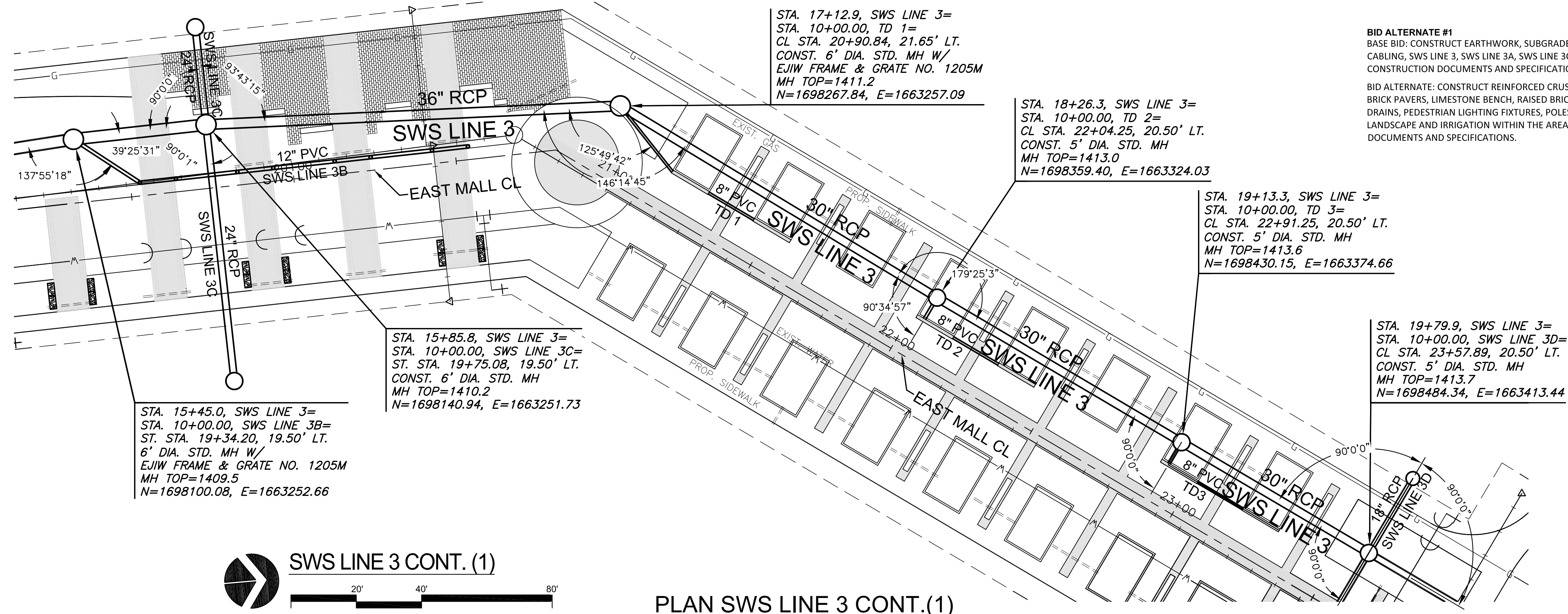
STA. 12+94.2, SWS LINE 3=  
STA. 10+00.00, SWS LINE 3A=  
CL STA. 16+86.20, 29.25' LT.  
CONST. 6" DIA. STD. MH W/  
EJIW FRAME & GRATE NO. 1205M  
MH TOP=1408.5  
N=1697851.92, E=1663248.55



PLAN SWS LINE 3  
PROFILE SWS LINE 3



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STA. 17+12.9, SWS LINE 3=  
 STA. 10+00.00, TD 1=  
 CL STA. 20+90.84, 21.65' LT.  
 CONST. 6' DIA. STD. MH W/  
 EJIW FRAME & GRATE NO. 1205M  
 MH TOP=1411.2  
 N=1698267.84, E=1663257.09

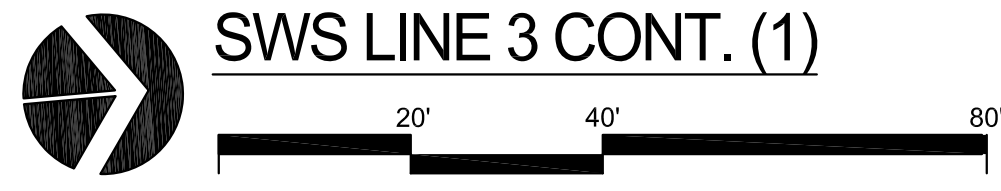
STA. 18+26.3, SWS LINE 3=  
 STA. 10+00.00, TD 2=  
 CL STA. 22+04.25, 20.50' LT.  
 CONST. 5' DIA. STD. MH  
 MH TOP=1413.0  
 N=1698359.40, E=1663324.03

STA. 19+13.3, SWS LINE 3=  
 STA. 10+00.00, TD 3=  
 CL STA. 22+91.25, 20.50' LT.  
 CONST. 5' DIA. STD. MH  
 MH TOP=1413.6  
 N=1698430.15, E=1663374.66

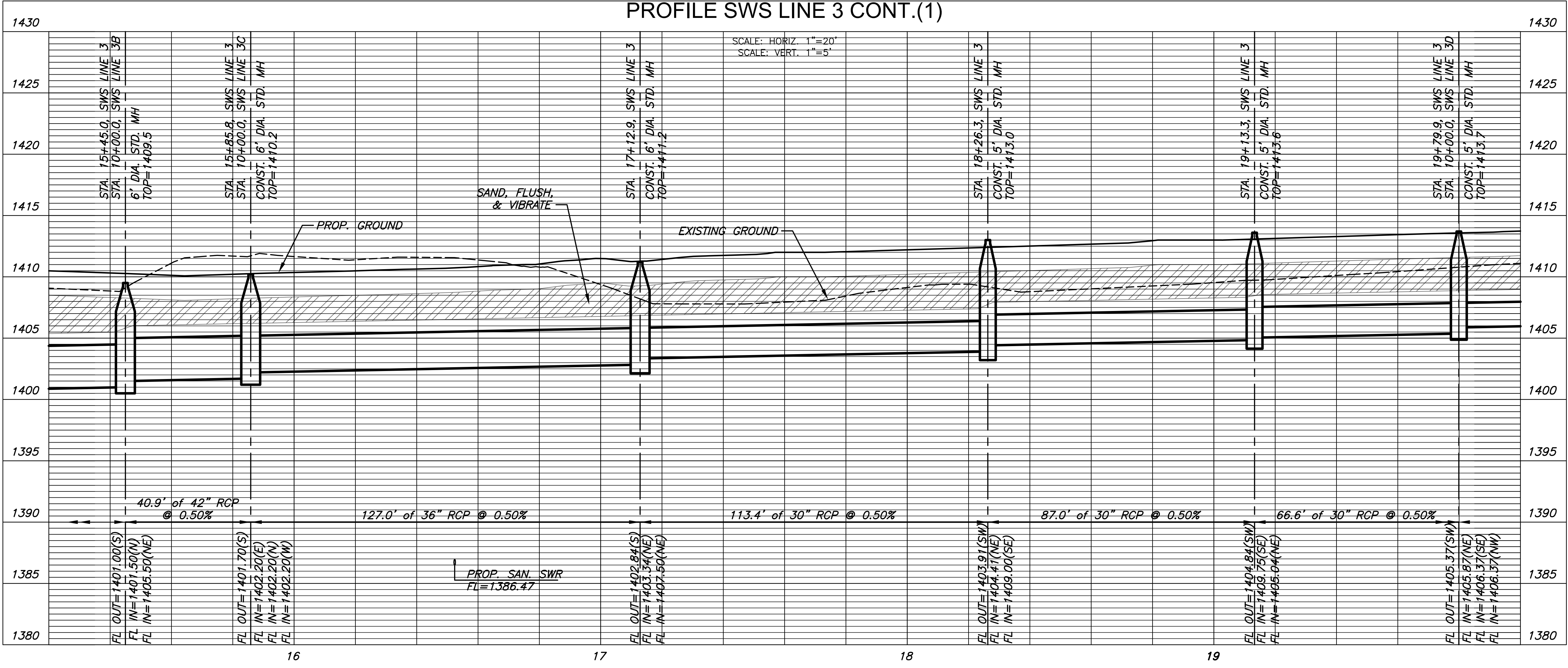
STA. 19+79.9, SWS LINE 3=  
 STA. 10+00.00, SWS LINE 3D=  
 CL STA. 23+57.89, 20.50' LT.  
 CONST. 5' DIA. STD. MH  
 MH TOP=1413.7  
 N=1698484.34, E=1663413.44

STA. 15+45.0, SWS LINE 3=  
 STA. 10+00.00, SWS LINE 3B=  
 ST. STA. 19+34.20, 19.50' LT.  
 6' DIA. STD. MH W/  
 EJIW FRAME & GRATE NO. 1205M  
 MH TOP=1409.5  
 N=1698100.08, E=1663252.66

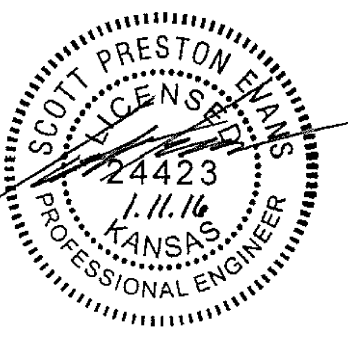
STA. 15+85.8, SWS LINE 3=  
 STA. 10+00.00, SWS LINE 3C=  
 ST. STA. 19+75.08, 19.50' LT.  
 CONST. 6' DIA. STD. MH  
 MH TOP=1410.2  
 N=1698140.94, E=1663251.73



PLAN SWS LINE 3 CONT.(1)  
 PROFILE SWS LINE 3 CONT.(1)



**BID ALTERNATE #1**  
 BASE BID: CONSTRUCT EARTHWORK, SUBGRADE PREPARATION, FIBER OPTIC INFRASTRUCTURE & CABLING, SWS LINE 3, SWS LINE 3A, SWS LINE 3C, SWS LINE 3D AND SWS LINE 3E ACCORDING TO CONSTRUCTION DOCUMENTS AND SPECIFICATIONS.  
 BID ALTERNATE: CONSTRUCT REINFORCED CRUSHED AGGREGATE BASE, CONCRETE PAVEMENT, BRICK PAVERS, LIMESTONE BENCH, RAISED BRICK SEAT WALL, SWS LINE 3B, SWS TRENCH DRAINS, PEDESTRIAN LIGHTING FIXTURES, POLES, & ASSOCIATED UNDERGROUND POWER, LANDSCAPE AND IRRIGATION WITHIN THE AREA DENOTED ACCORDING TO CONSTRUCTION DOCUMENTS AND SPECIFICATIONS.



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Department of Administration  
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 Topeka, Kansas 66612-1216  
 Phone 785-296-8899

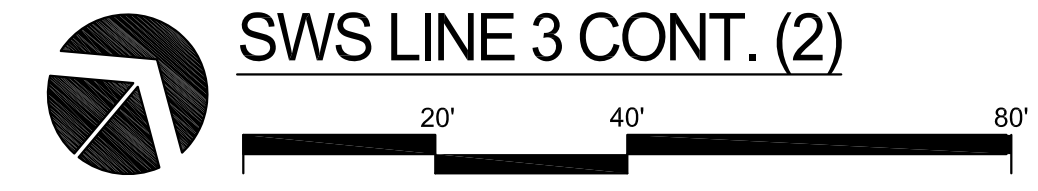
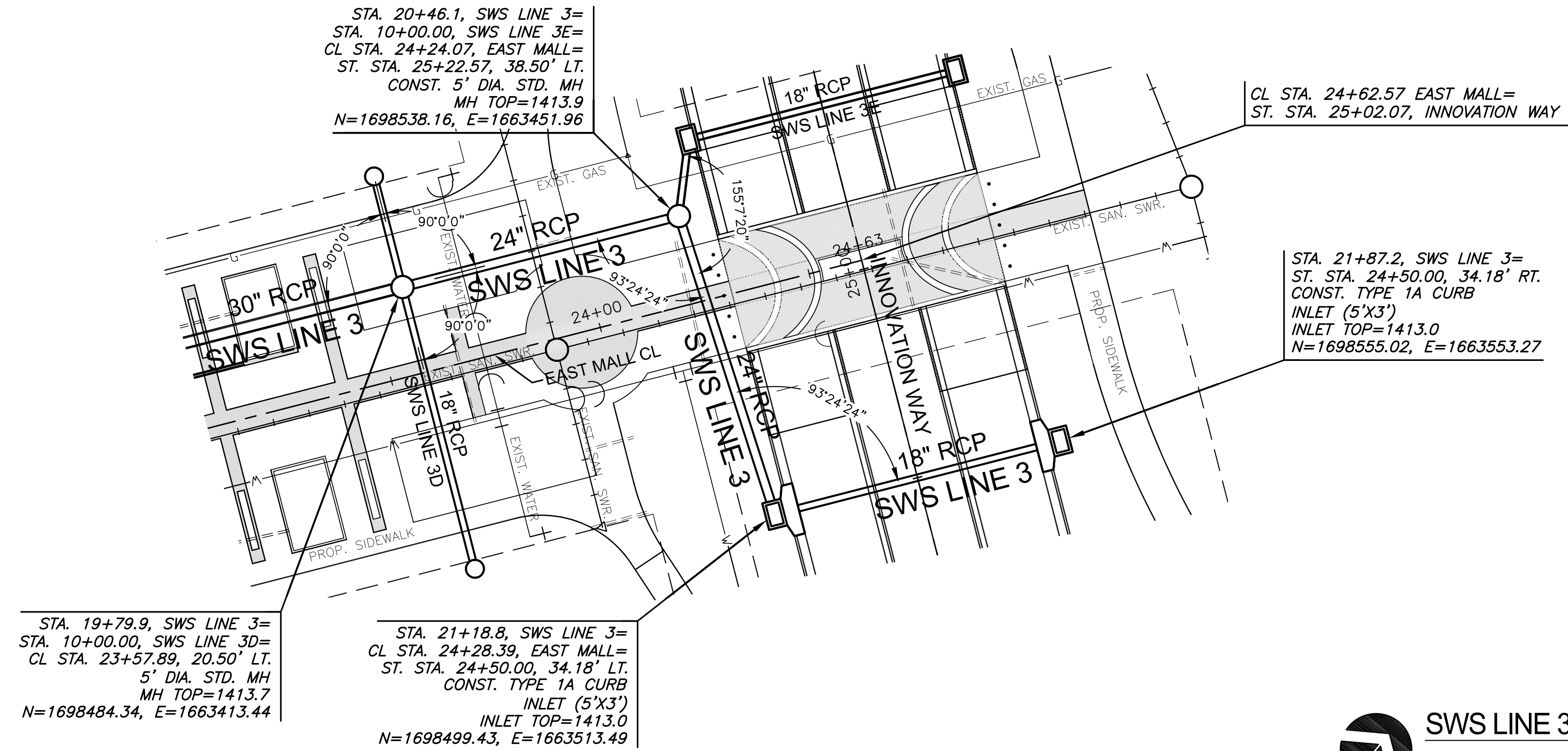
WICHITA STATE UNIVERSITY  
**INNOVATION CAMPUS INFRASTRUCTURE PHASE 2**  
 1845 FAIRMOUNT ST.  
 WICHITA, KANSAS 67260-0023  
 DRAWN BY: WNU  
 CHECKED BY:  
 DATE: 11/11/2016

SWS LINE 3 CONT. (1)  
 A-012817(a)  
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 ORIGINAL CONTRACT DOCUMENTS

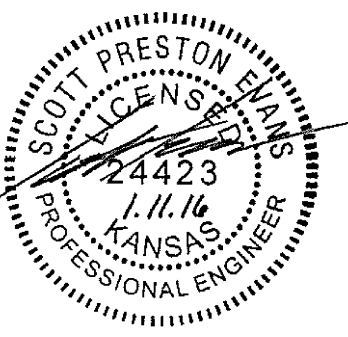
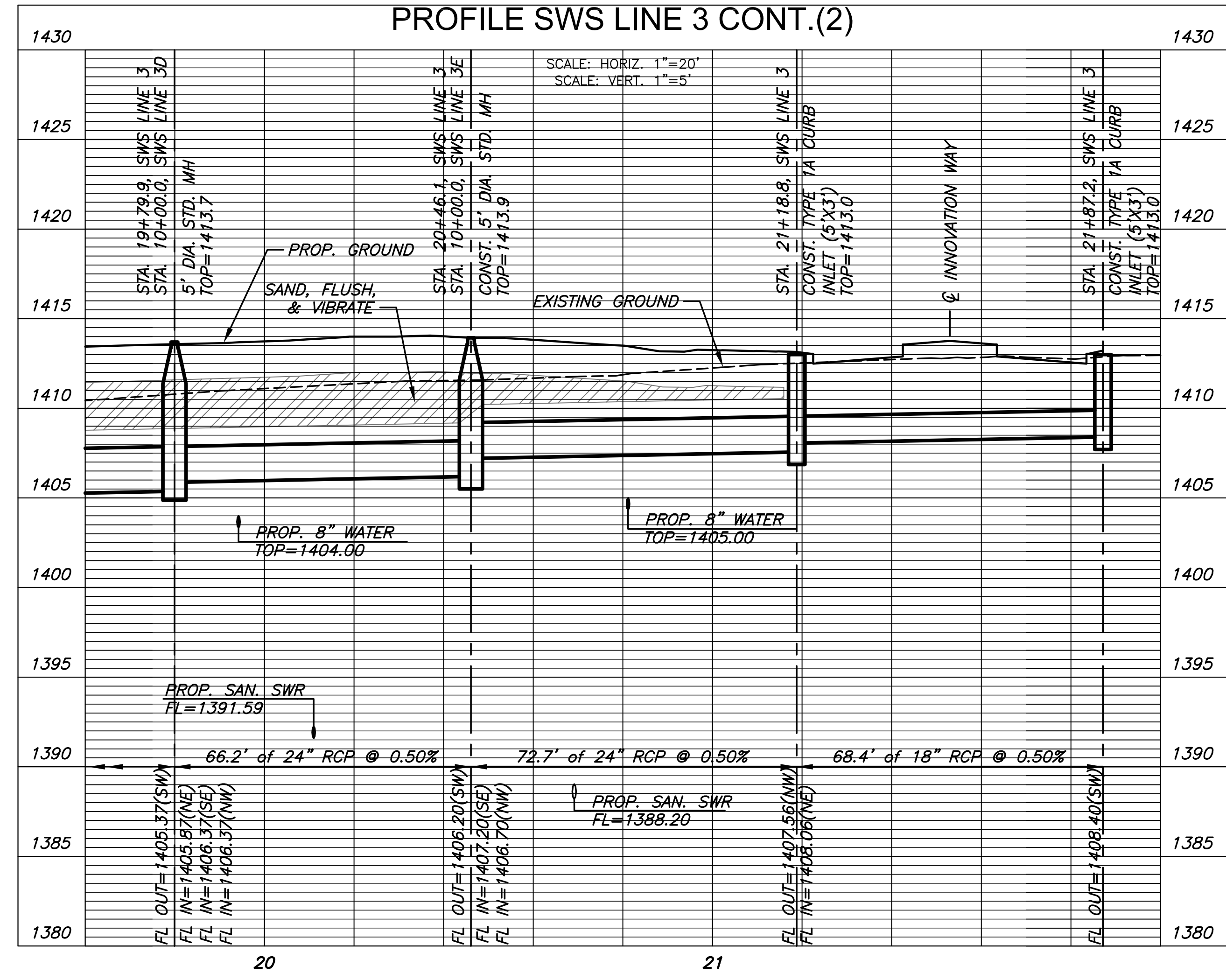
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**BID ALTERNATE #1**  
 BASE BID: CONSTRUCT EARTHWORK, SUBGRADE PREPARATION, FIBER OPTIC INFRASTRUCTURE & CABLING, SWS LINE 3, SWS LINE 3A, SWS LINE 3C, SWS LINE 3D AND SWS LINE 3E ACCORDING TO CONSTRUCTION DOCUMENTS AND SPECIFICATIONS.

BID ALTERNATE: CONSTRUCT REINFORCED CRUSHED AGGREGATE BASE, CONCRETE PAVEMENT, BRICK PAVERS, LIMESTONE BENCH, RAISED BRICK SEAT WALL, SWS LINE 3B, SWS TRENCH DRAINS, PEDESTRIAN LIGHTING FIXTURES, POLES, & ASSOCIATED UNDERGROUND POWER, LANDSCAPE AND IRRIGATION WITHIN THE AREA DENOTED ACCORDING TO CONSTRUCTION DOCUMENTS AND SPECIFICATIONS.



PLAN SWS LINE 3 CONT.(2)  
 PROFILE SWS LINE 3 CONT.(2)



REVISION	DATE

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 Office of Facilities & Property Management  
 Design, Construction & Compliance  
 800 SW Jackson, Suite 700  
 Topeka, Kansas 66612-1216  
 Phone 785-296-8899

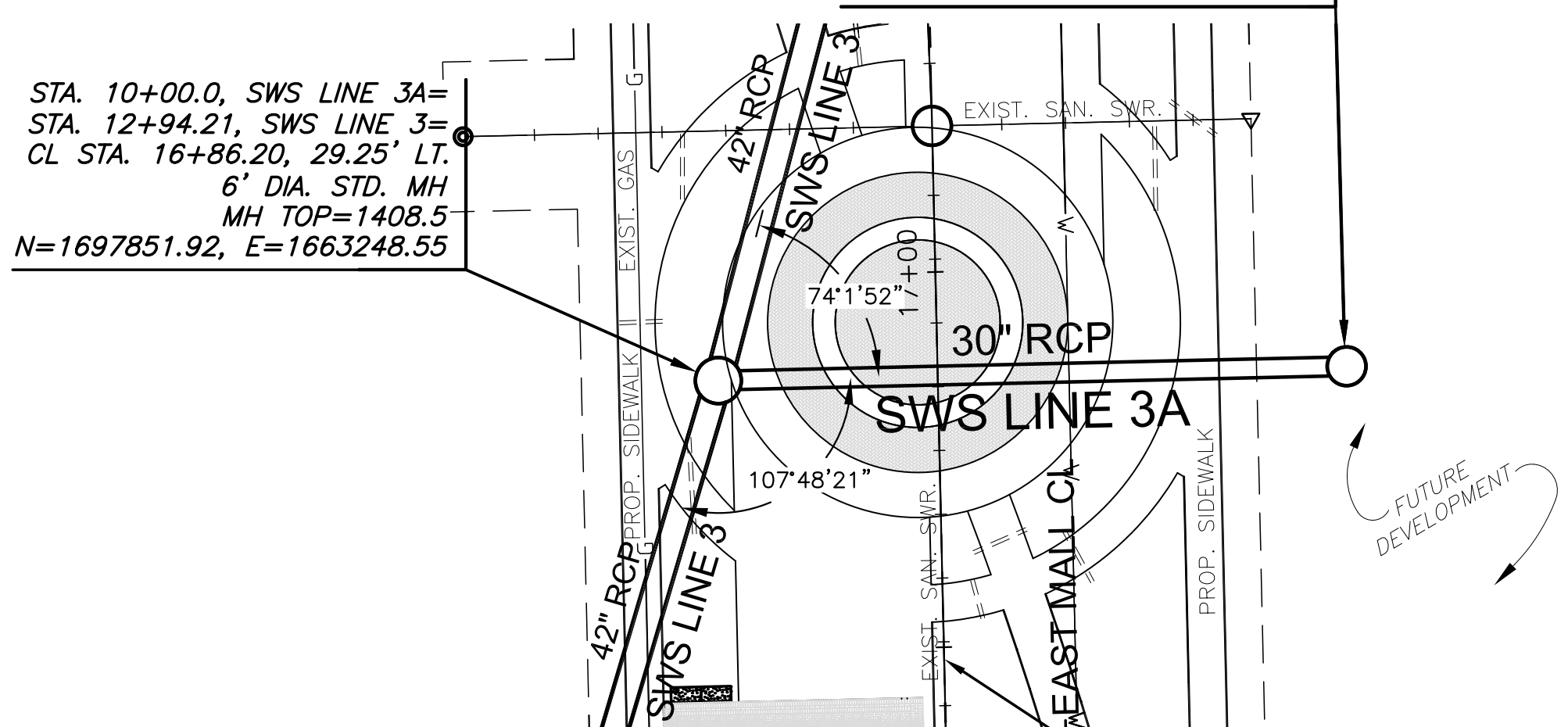
WICHITA STATE UNIVERSITY  
 INNOVATION CAMPUS INFRASTRUCTURE  
 PHASE 2  
 1845 FAIRMOUNT ST.  
 WICHITA, KANSAS 67260-0023  
 DATE: 11/11/2016  
 DRAWN BY: WJW  
 CHECKED BY:

SWS LINE 3 CONT (2)  
 A-012817(a)  
 77 OF 165  
 ORIGINAL CONTRACT DOCUMENTS

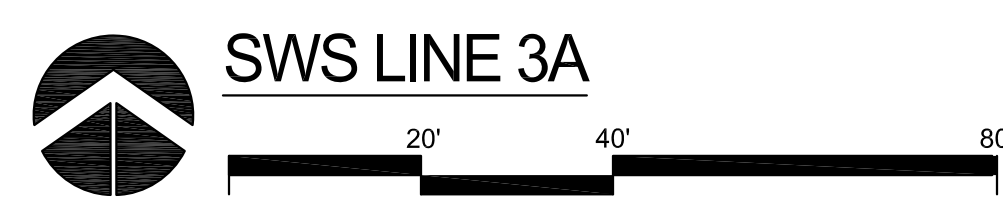
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STA. 10+00.0, SWS LINE 3A=  
STA. 12+94.21, SWS LINE 3=  
CL STA. 16+86.20, 29.25' LT.  
6" DIA. STD. MH  
MH TOP=1408.5  
N=1697851.92, E=1663248.55

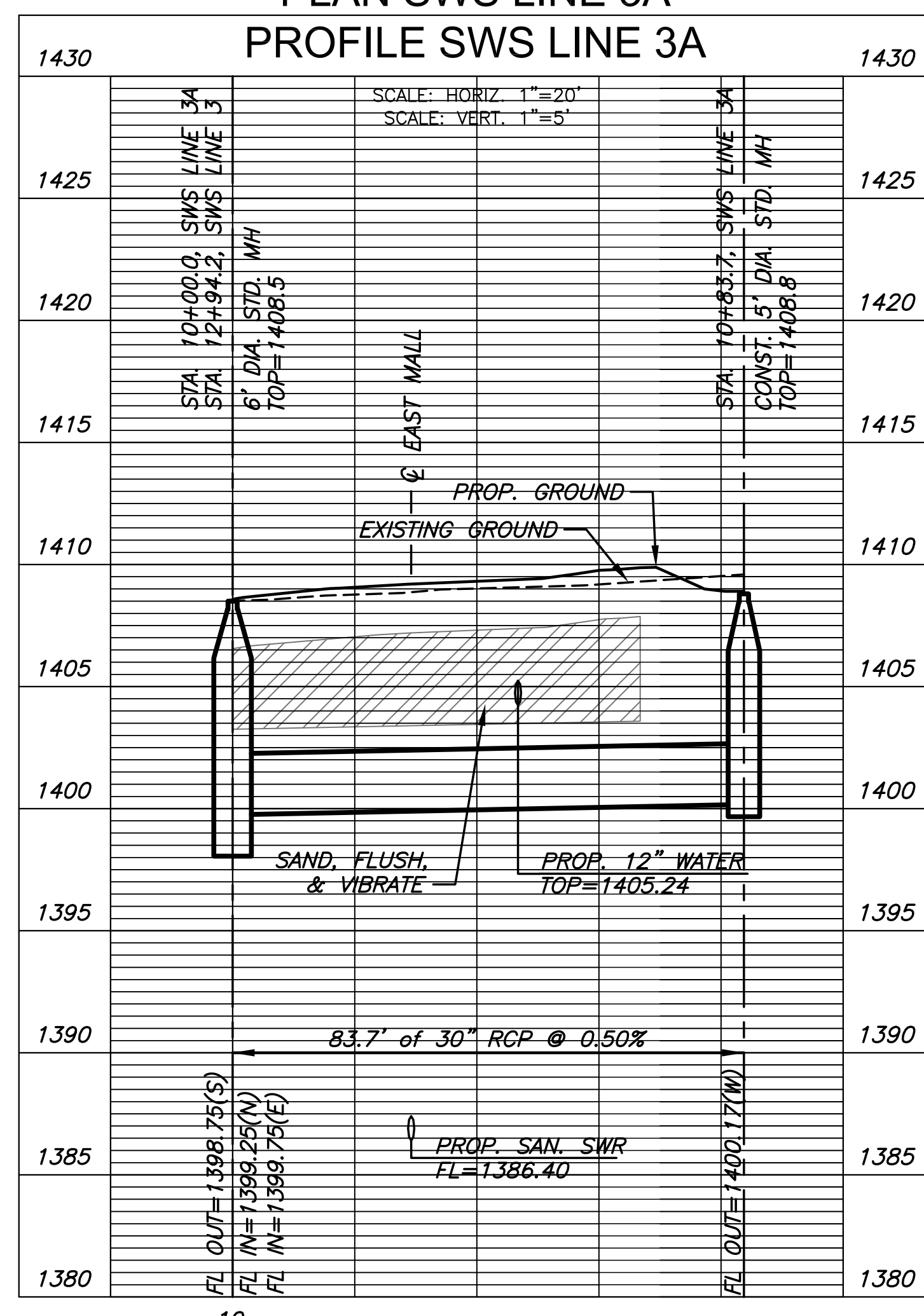
STA. 10+83.7, SWS LINE 3A=  
CL STA. 16+86.20, 54.50' RT.  
CONST. 5" DIA. STD. MH W/  
EUIW FRAME & GRATE NO. 1205M  
MH TOP=1408.8  
N=1697853.82, E=1663332.27



**BID ALTERNATE #1**  
BASE BID: CONSTRUCT EARTHWORK, SUBGRADE PREPARATION, FIBER OPTIC INFRASTRUCTURE & CABLING, SWS LINE 3, SWS LINE 3A, SWS LINE 3C, SWS LINE 3D AND SWS LINE 3E ACCORDING TO CONSTRUCTION DOCUMENTS AND SPECIFICATIONS.  
BID ALTERNATE: CONSTRUCT REINFORCED CRUSHED AGGREGATE BASE, CONCRETE PAVEMENT, BRICK PAVERS, LIMESTONE BENCH, RAISED BRICK SEAT WALL, SWS LINE 3B, SWS TRENCH DRAINS, PEDESTRIAN LIGHTING FIXTURES, POLES, & ASSOCIATED UNDERGROUND POWER, LANDSCAPE AND IRRIGATION WITHIN THE AREA DENOTED ACCORDING TO CONSTRUCTION DOCUMENTS AND SPECIFICATIONS.



PLAN SWS LINE 3A

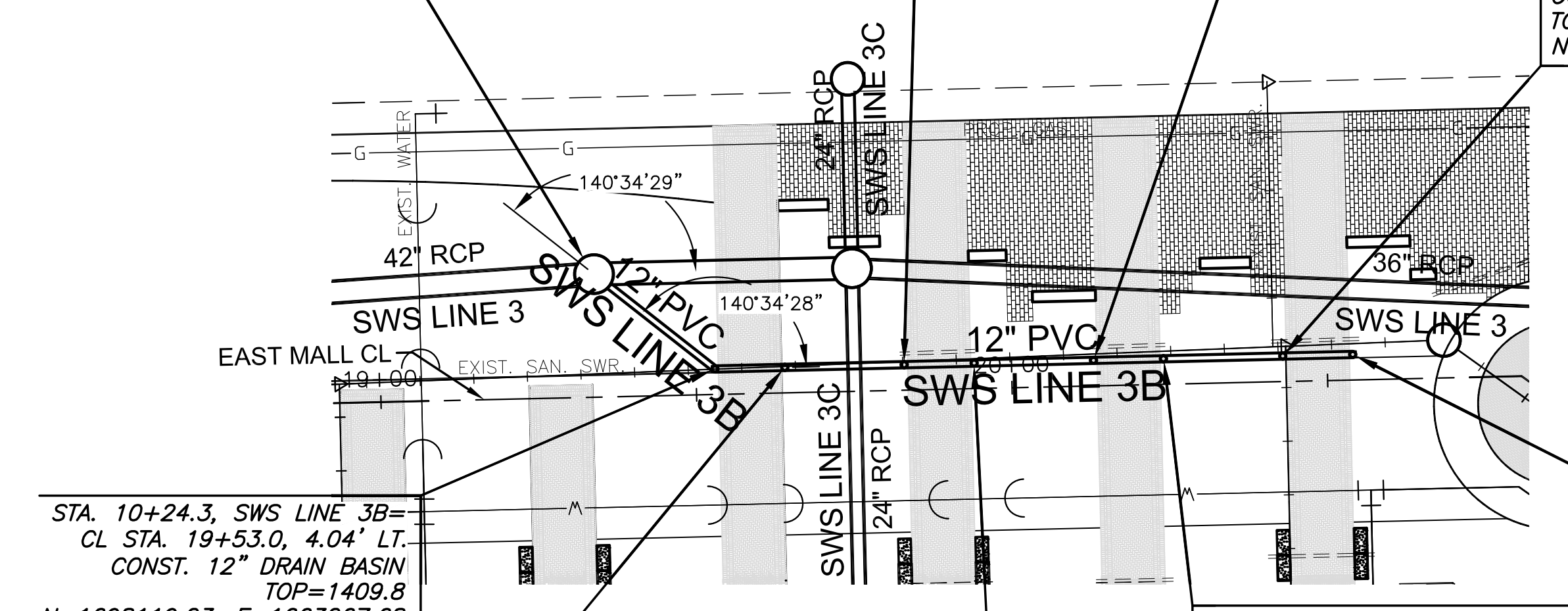


STA. 10+00.0, SWS LINE 3B=  
STA. 15+44.97, SWS LINE 3=  
CL STA. 19+34.20, 19.50' LT.  
6" DIA. STD. MH  
MH TOP=1409.5  
N=1698100.08, E=1663252.66

STA. 10+54.3, SWS LINE 3B=  
CL STA. 19+83.00, 4.04' LT.  
CONST. 12" DRAIN BASIN  
TOP=1410.1  
N=1698149.22, E=1663267.00

STA. 10+84.3, SWS LINE 3B=  
CL STA. 20+13.00, 4.04' LT.  
CONST. 12" DRAIN BASIN  
TOP=1410.3  
N=1698179.21, E=1663266.32

STA. 11+14.3, SWS LINE 3B=  
CL STA. 20+43.00, 4.04' LT.  
CONST. 12" DRAIN BASIN  
TOP=1410.6  
N=1698209.20, E=1663265.64



STA. 10+24.3, SWS LINE 3B=  
CL STA. 19+53.00, 4.04' LT.  
CONST. 12" DRAIN BASIN  
TOP=1409.8  
N=1698119.23, E=1663267.68

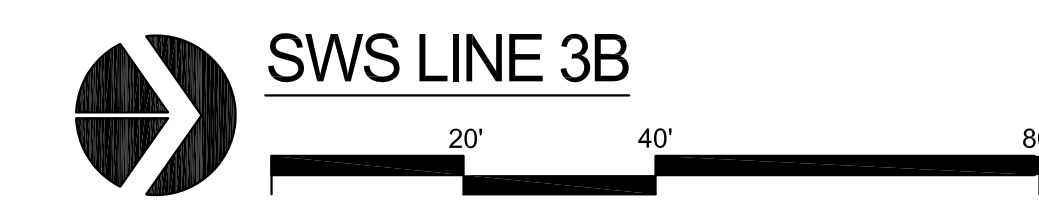
STA. 10+35.4, SWS LINE 3B=  
CL STA. 19+64.1, 4.04' LT.  
CONST. 12" DRAIN BASIN  
TOP=1409.9  
N=1698130.30, E=1663267.43

STA. 10+65.4, SWS LINE 3B=  
CL STA. 19+64.1, 4.04' LT.  
CONST. 12" DRAIN BASIN  
TOP=1410.2  
N=1698160.30, E=1663266.75

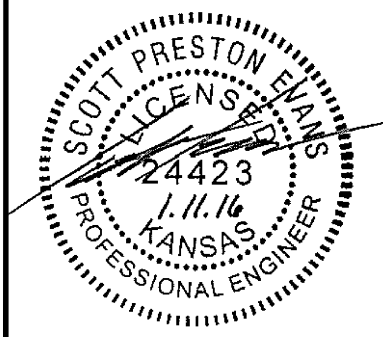
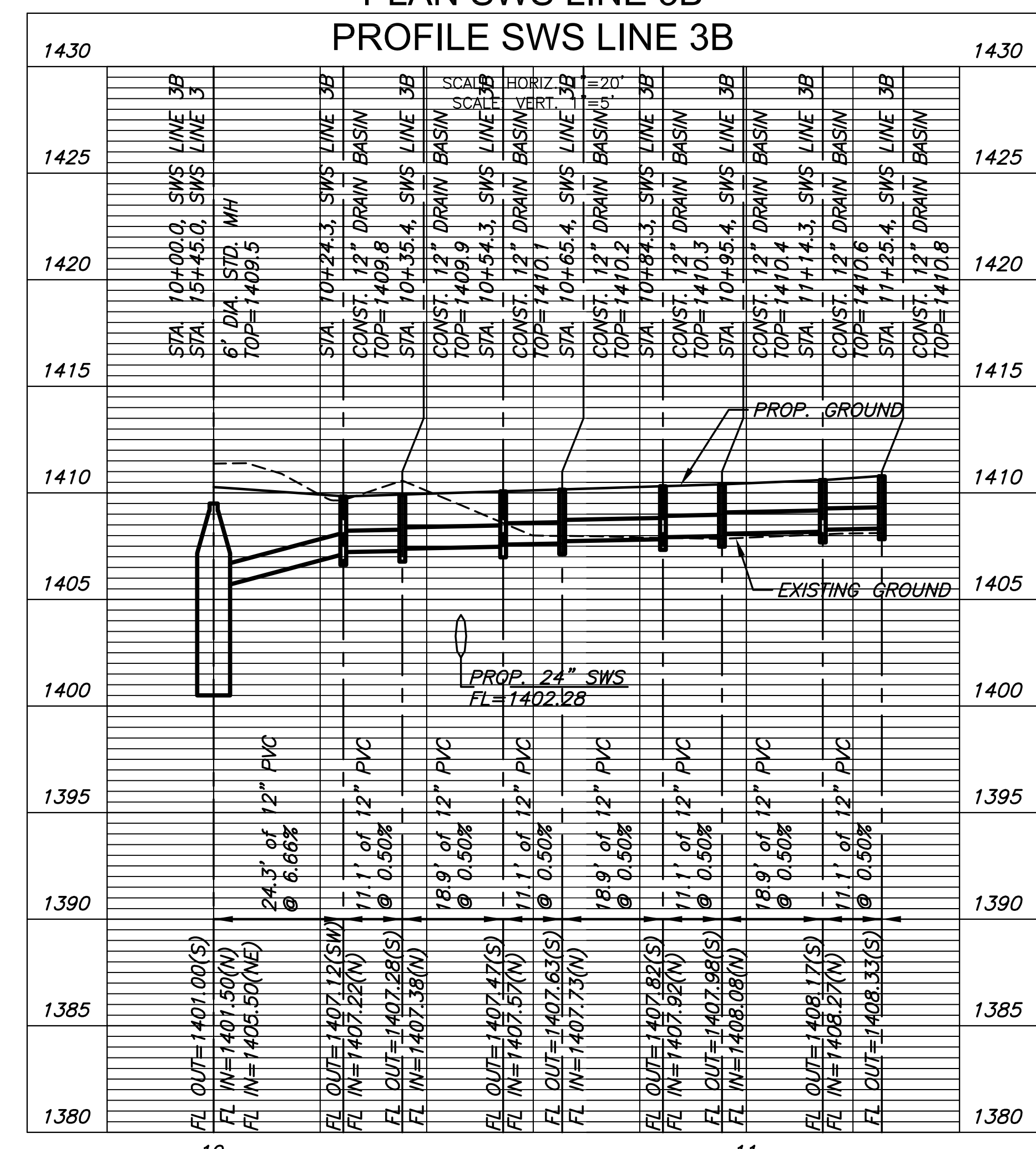
STA. 10+95.4, SWS LINE 3B=  
CL STA. 20+24.08, 4.04' LT.  
CONST. 12" DRAIN BASIN  
TOP=1410.4  
N=1698190.29, E=1663266.07

STA. 11+25.4, SWS LINE 3B=  
CL STA. 20+54.08, 4.04' LT.  
CONST. 12" DRAIN BASIN  
TOP=1410.8  
N=1698220.28, E=1663265.39

NOTE:  
SEE LINE 3B DRAIN BASIN DETAIL, SHEET 65.



PLAN SWS LINE 3B



REVISION	DATE

DIVISION OF ADMINISTRATION & FINANCE  
FACILITIES PLANNING  
1845 FAIRMOUNT ST.  
WICHITA, KANSAS 67260-0047  
Phone 316-978-3030

Department of Administration  
Office of Facilities & Property Management  
Design, Construction & Compliance  
800 SW Jackson, Suite 700  
Topeka, Kansas 66612-1216  
Phone 785-296-8899

WICHITA STATE UNIVERSITY  
**INNOVATION CAMPUS INFRASTRUCTURE PHASE 2**  
1845 FAIRMOUNT ST.  
WICHITA, KANSAS 67260-0023  
DRAWN BY: WJW  
CHECKED BY: WJW  
DATE: 11/12/16

SWS LINE 3A-3B  
A-012817(a)  
78 OF 165  
ORIGINAL CONTRACT DOCUMENTS

J:\PROJECTS\2015\1501010265\_WSU\_INNOVATION INFRASTRUCTURE\150285 CAD\SHOTS\05 CIVIL\SWS\15095\_DP\_3A-3B.DWG

REVISION	DATE

DIVISION OF ADMINISTRATION & FINANCE  
FACILITIES PLANNING  
1845 FAIRMOUNT ST.  
WICHITA, KANSAS 67260-0047  
Phone 316-978-3030

Department of Administration  
Office of Facilities & Property Management  
Design, Construction & Compliance  
800 SW Jackson, Suite 700  
Topeka, Kansas 66612-1216  
Phone 785-296-8899

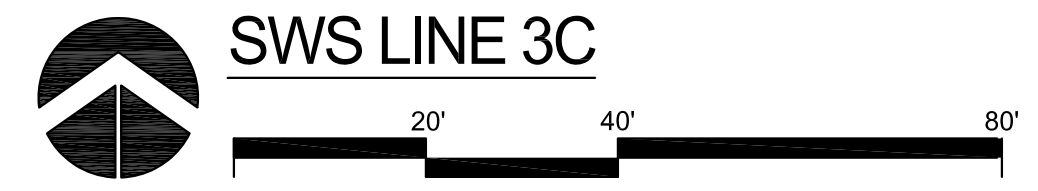
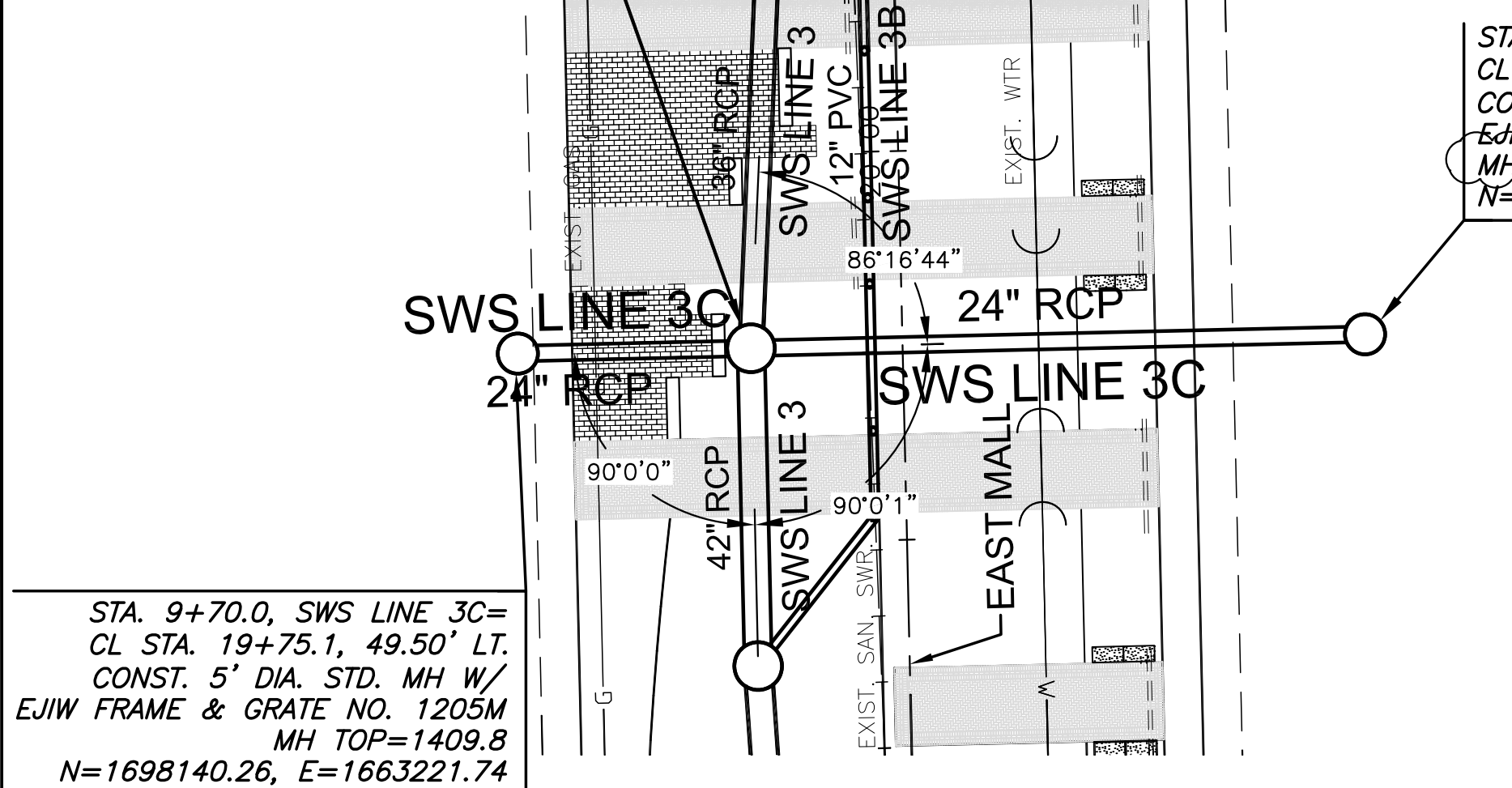
WICHITA STATE UNIVERSITY  
**INNOVATION CAMPUS INFRASTRUCTURE**  
**PHASE 2**

SWS LINE 3C-3E  
A-012817(a)

79 OF 165  
ORIGINAL CONTRACT DOCUMENTS

**BID ALTERNATE #1**  
BASE BID: CONSTRUCT EARTHWORK, SUBGRADE PREPARATION, FIBER OPTIC INFRASTRUCTURE & CABLING, SWS LINE 3, SWS LINE 3A, SWS LINE 3C, SWS LINE 3D AND SWS LINE 3E ACCORDING TO CONSTRUCTION DOCUMENTS AND SPECIFICATIONS.  
BID ALTERNATE: CONSTRUCT REINFORCED CRUSHED AGGREGATE BASE, CONCRETE PAVEMENT, BRICK PAVERS, LIMESTONE BENCH, RAISED BRICK SEAT WALL, SWS LINE 3B, SWS TRENCH DRAINS, PEDESTRIAN LIGHTING FIXTURES, POLES, & ASSOCIATED UNDERGROUND POWER, LANDSCAPE AND IRRIGATION WITHIN THE AREA DENOTED ACCORDING TO CONSTRUCTION DOCUMENTS AND SPECIFICATIONS.

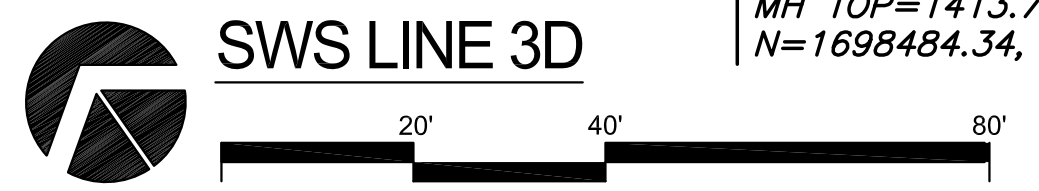
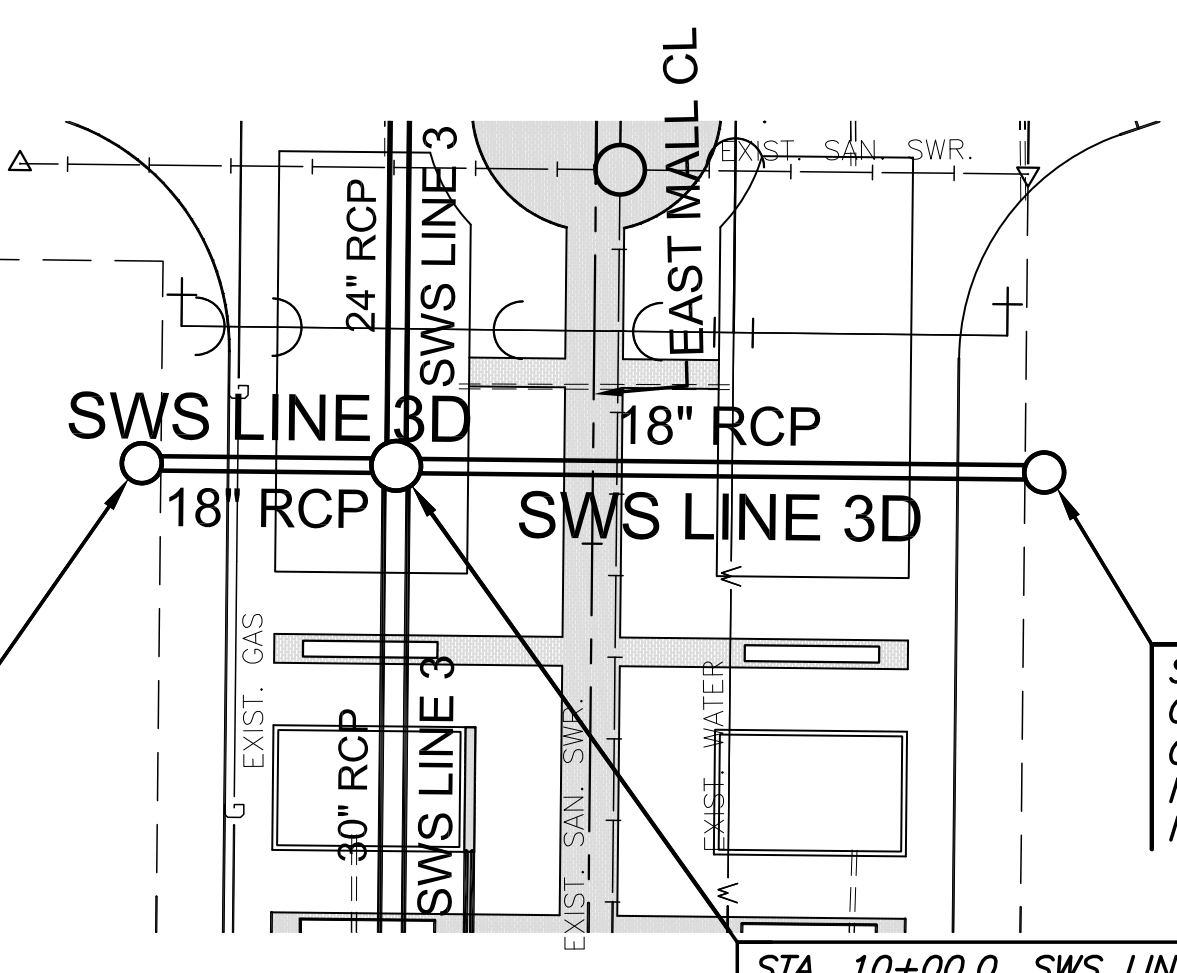
STA. 10+00.0, SWS LINE 3C=  
STA. 15+85.85, SWS LINE 3=  
CL STA. 19+75.08, 19.50' LT.  
CONST. 6' DIA. STD. MH  
MH TOP=1410.2  
N=1698140.94, E=1663251.73



PLAN SWS LINE 3C

STA. 10+79.0, SWS LINE 3C=  
CL STA. 19+75.08, 59.50' RT.  
CONST. 5' DIA. STD. MH W/  
EJWW FRAME & GRATE NO. 1205M  
MH TOP=1408.5  
N=1698142.74, E=1663330.71

STA. 9+73.5, SWS LINE 3D=  
CL STA. 23+57.9, 47.00' LT.  
CONST. 4' DIA. STD. MH  
MH TOP=1413.9  
N=1698499.76, E=1663391.89

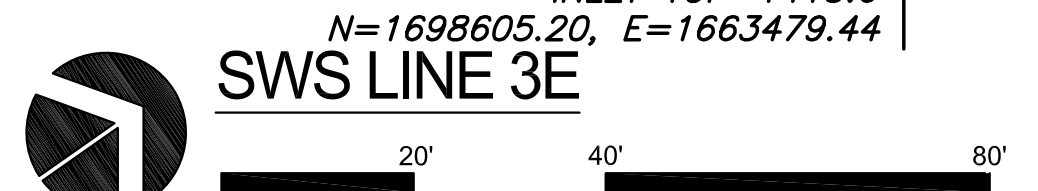
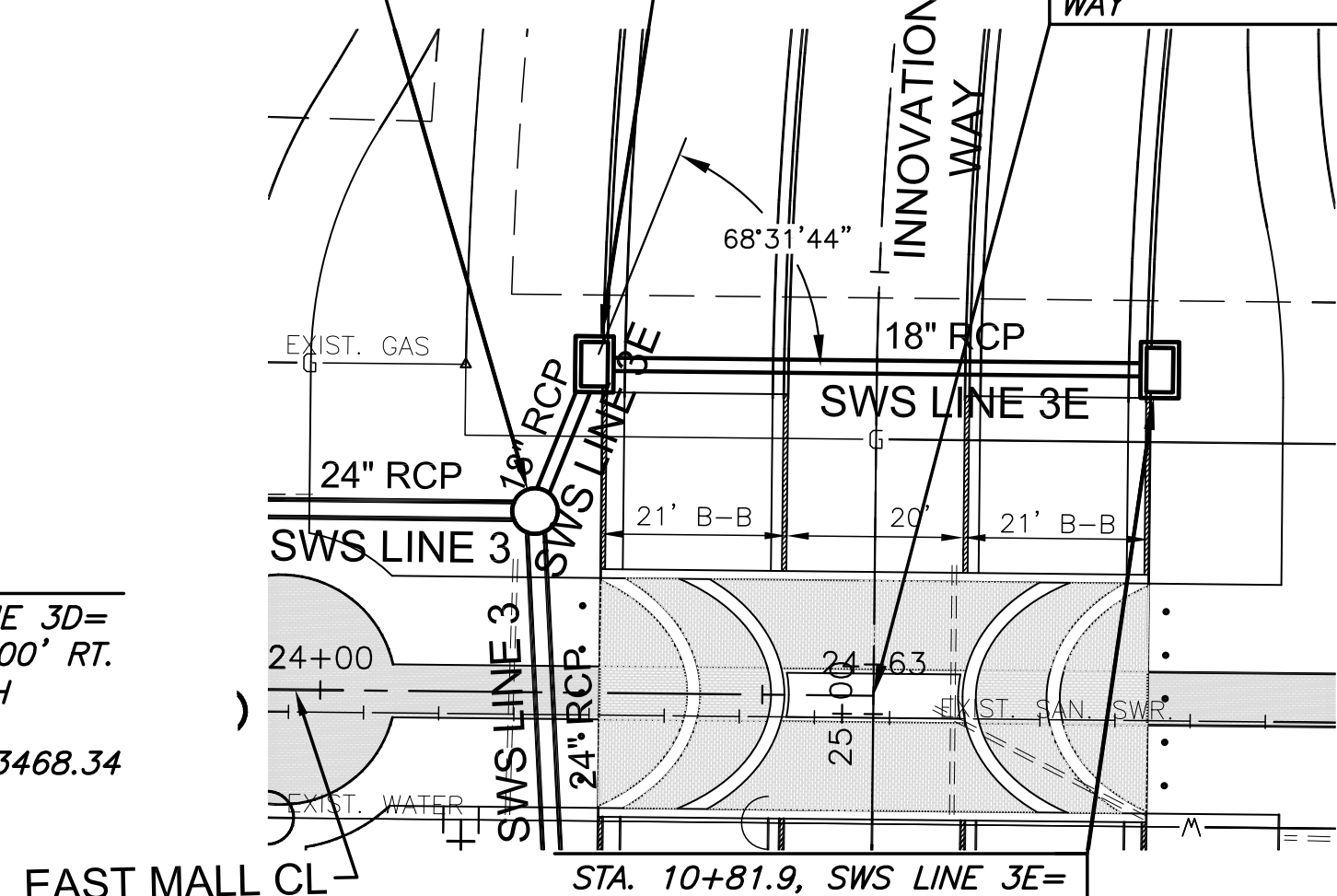


PLAN SWS LINE 3D

STA. 20+46.1, SWS LINE 3=  
STA. 20+46.10, SWS LINE 3=  
CL STA. 24+24.07, EAST MALL=  
ST. STA. 25+22.57, 38.50' LT.  
CONST. 5' DIA. STD. MH  
MH TOP=1413.9  
N=1698538.16, E=1663451.96

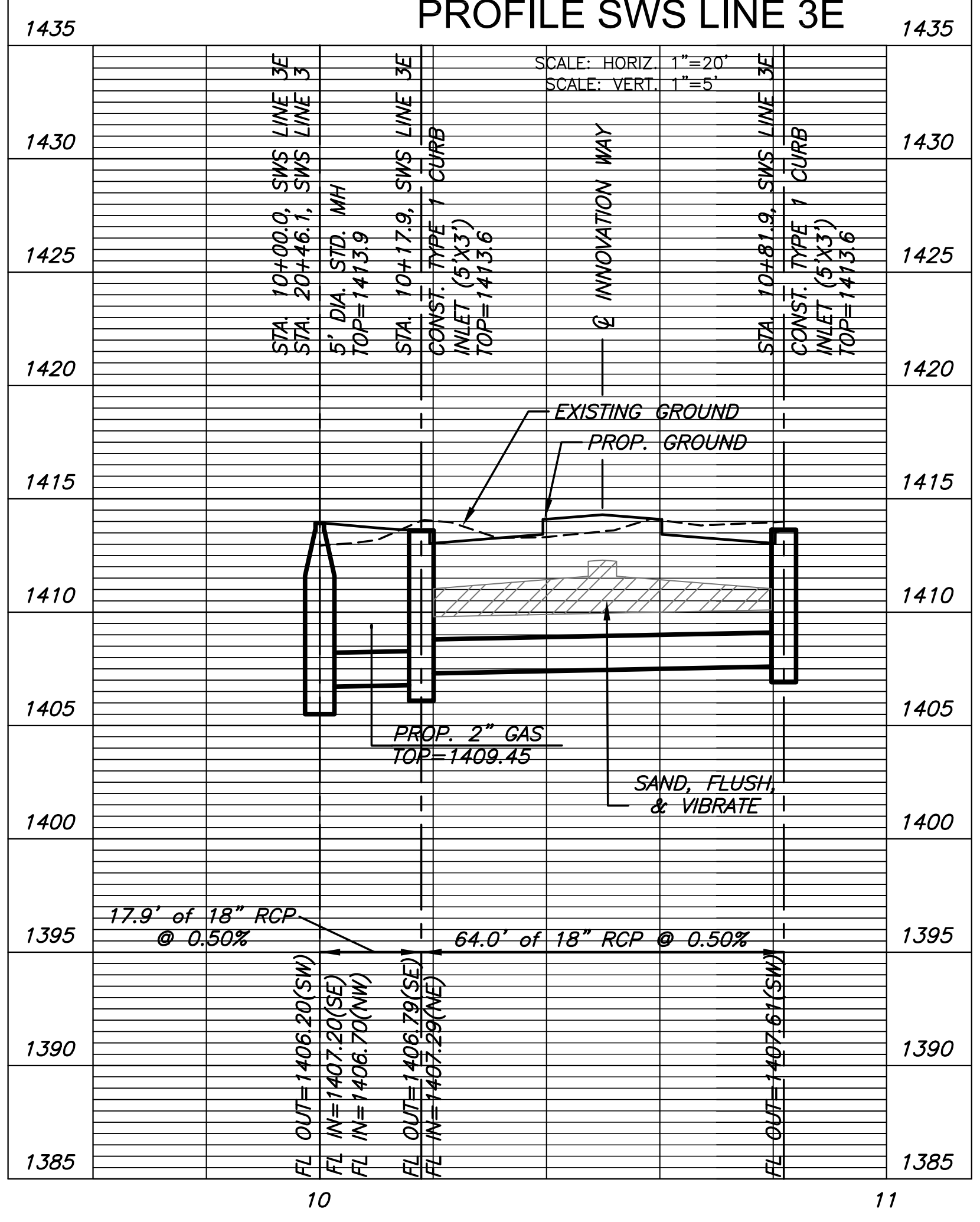
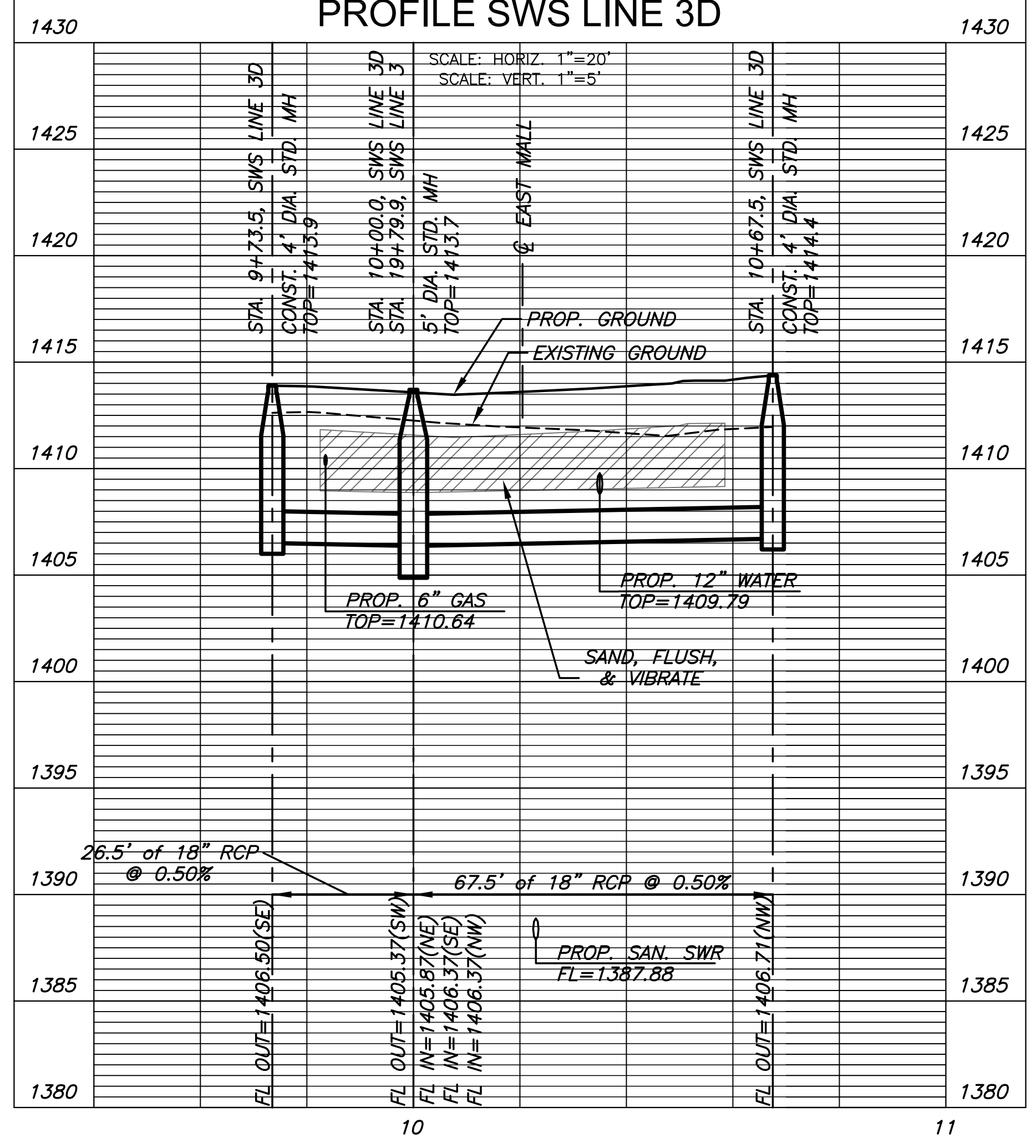
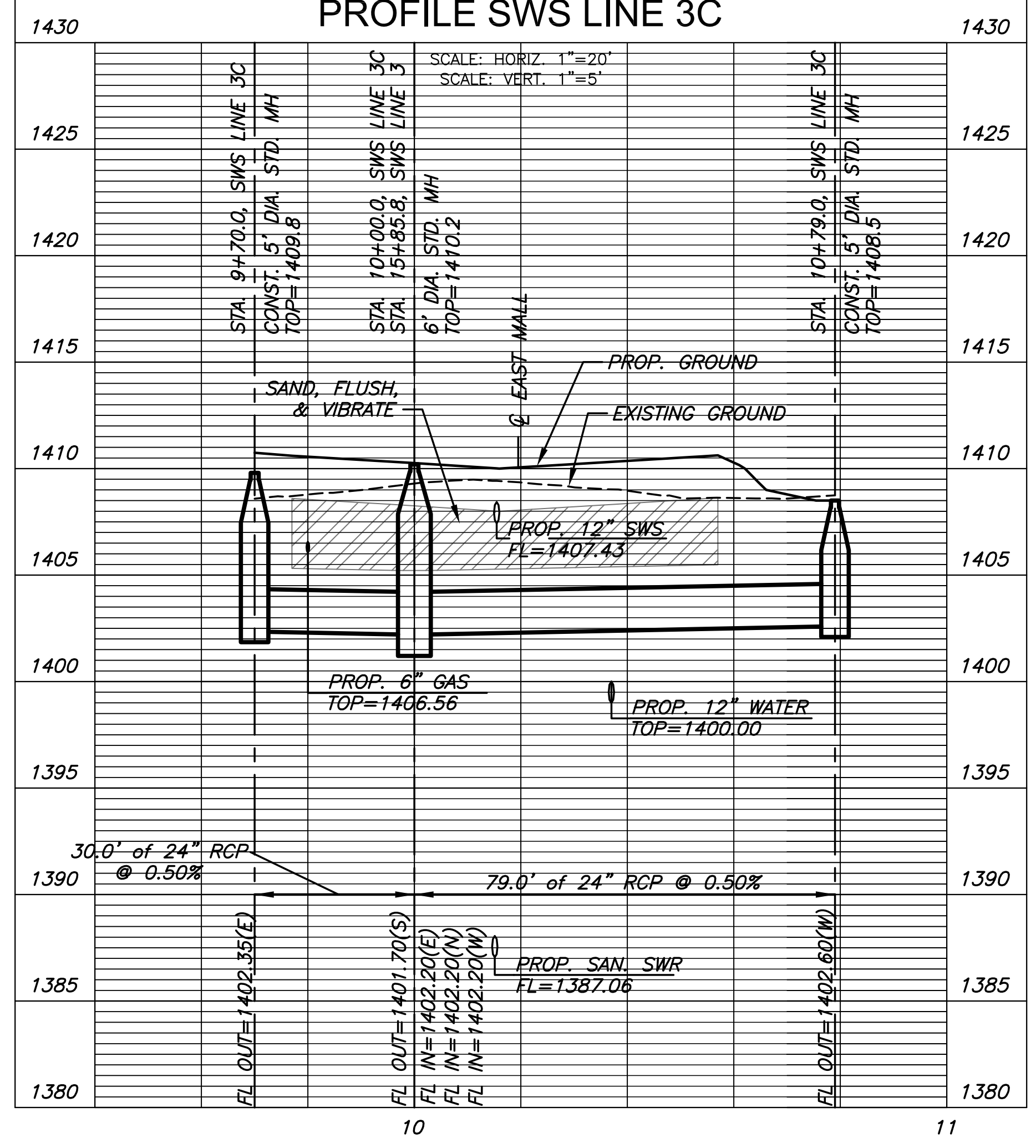
STA. 10+67.5, SWS LINE 3D=  
CL STA. 23+57.89, 47.00' RT.  
CONST. 4' DIA. STD. MH  
MH TOP=1414.4  
N=1698445.05, E=1663468.34

STA. 10+00.0, SWS LINE 3D=  
STA. 19+79.92, SWS LINE 3=  
CL STA. 23+57.89, 20.50' LT.  
CONST. 5' DIA. STD. MH  
MH TOP=1413.7  
N=1698484.34, E=1663413.44



PLAN SWS LINE 3E

STA. 10+81.9, SWS LINE 3E=  
ST. STA. 25+39.5, 32.00' RT.  
CONST. TYPE 1 CURB  
INLET (5'X3')  
INLET TOP=1413.6  
N=1698605.20, E=1663479.44



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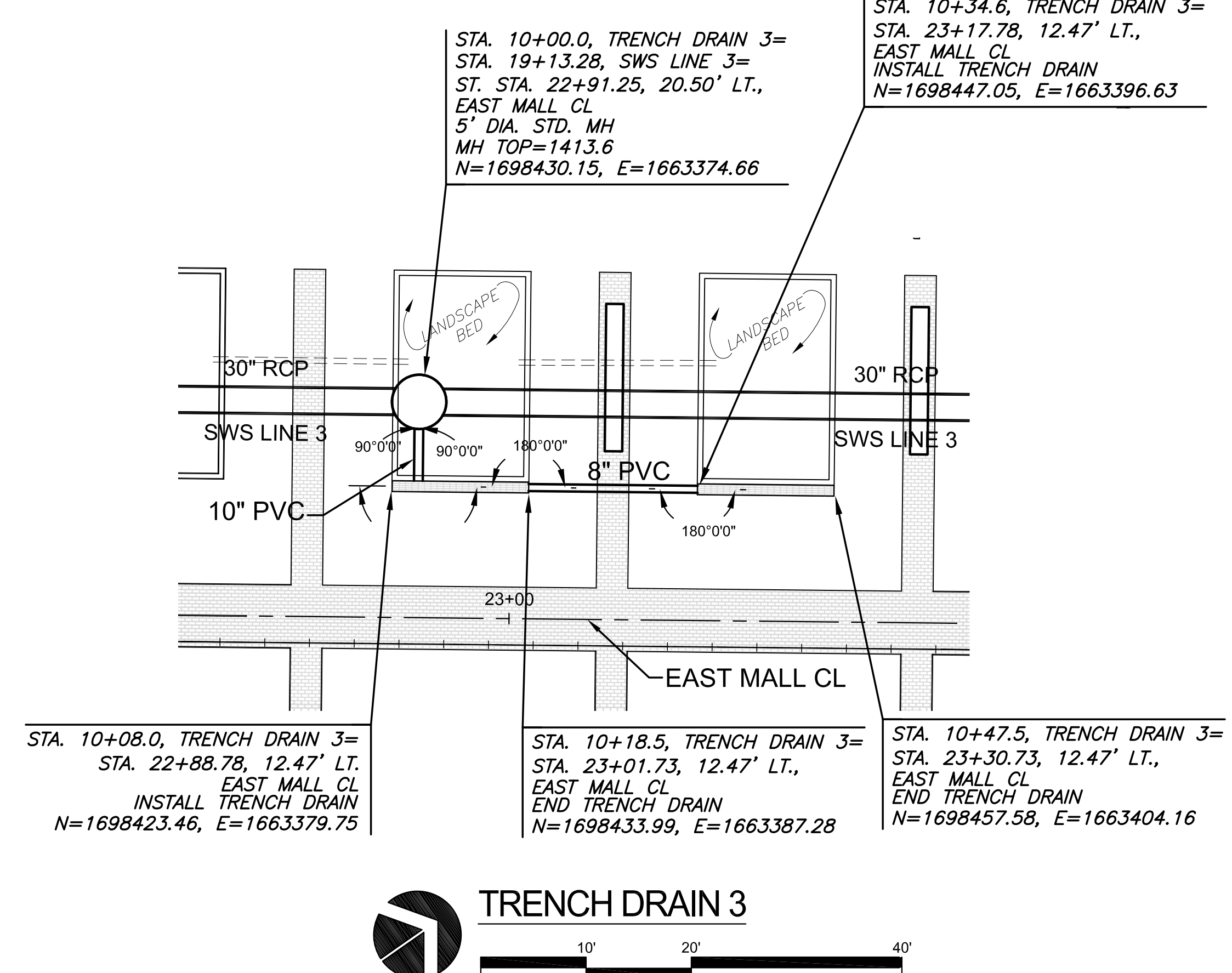
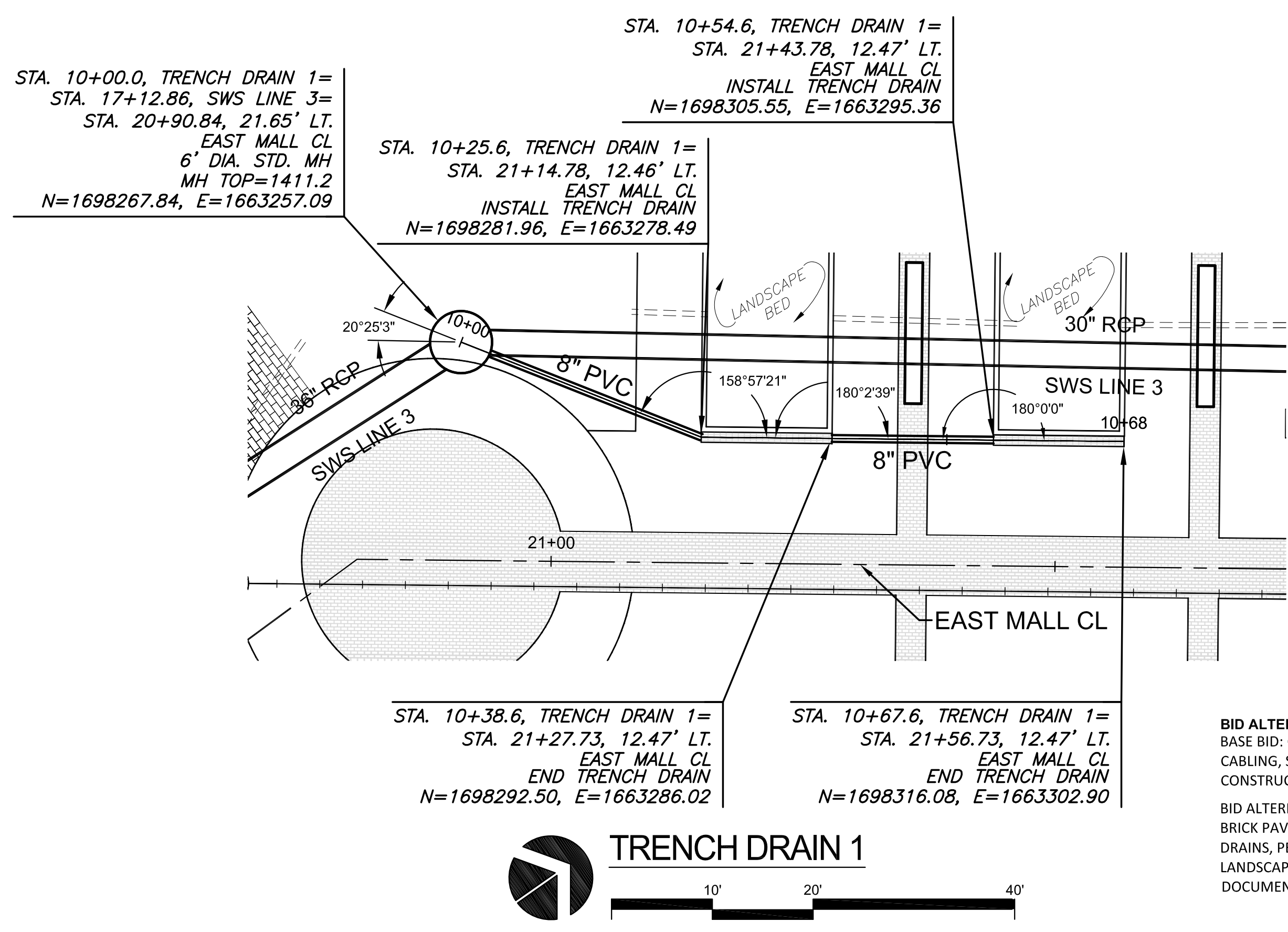
NO.	REVISION	DATE

DIVISION OF ADMINISTRATION & FINANCE  
FACILITIES PLANNING  
1845 FAIRMOUNT ST.  
WICHITA, KANSAS 67260-0047  
Phone 316-978-3030

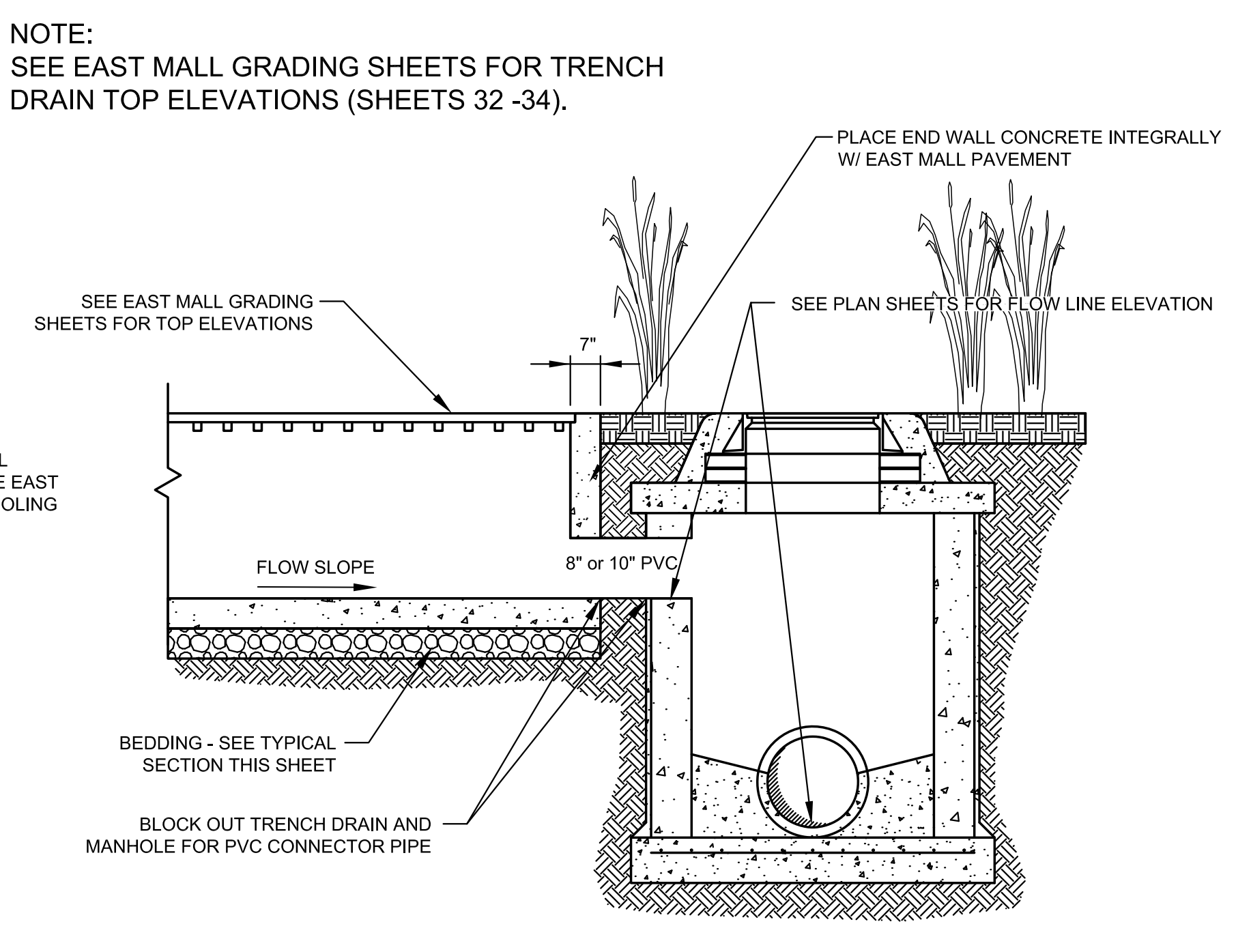
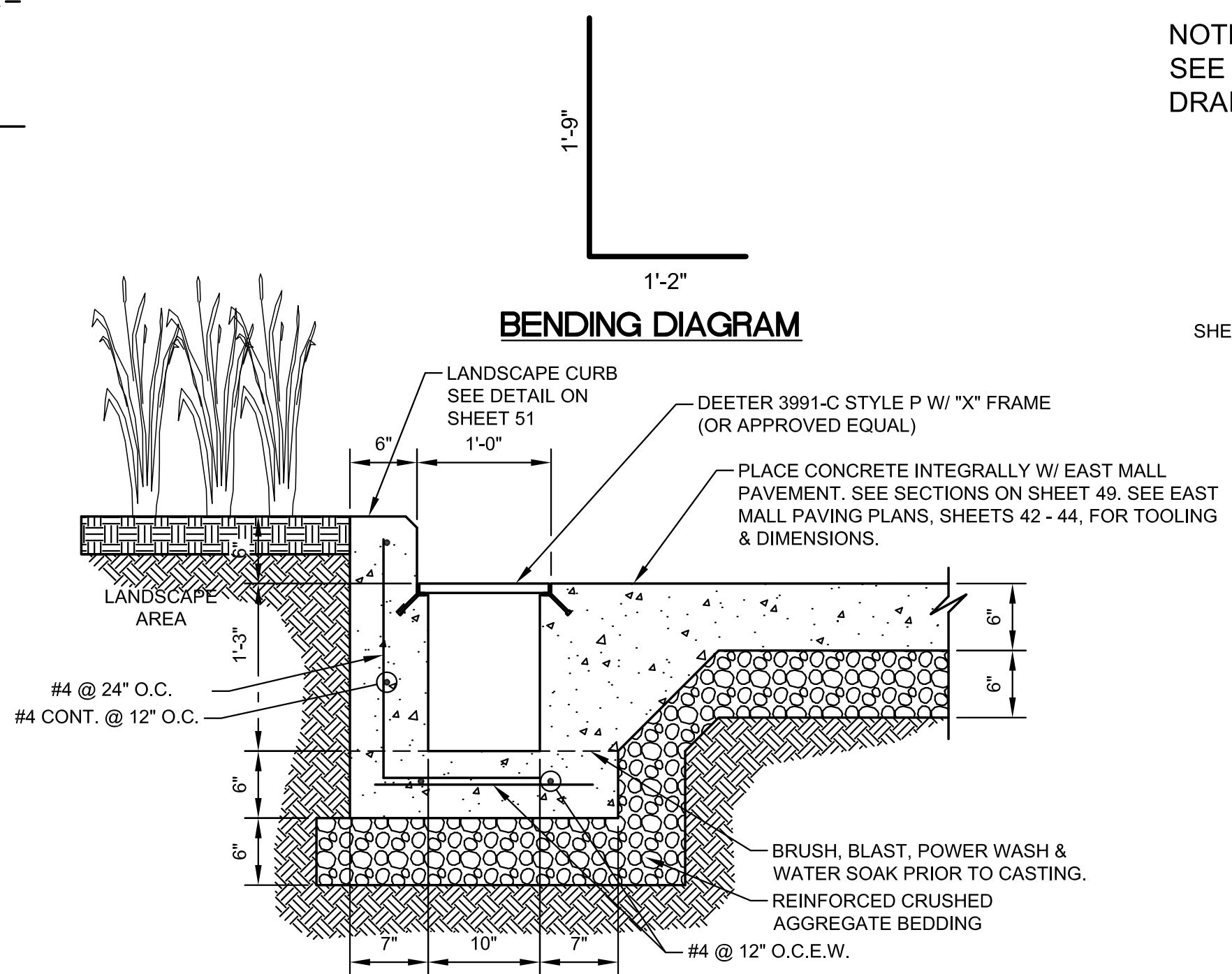
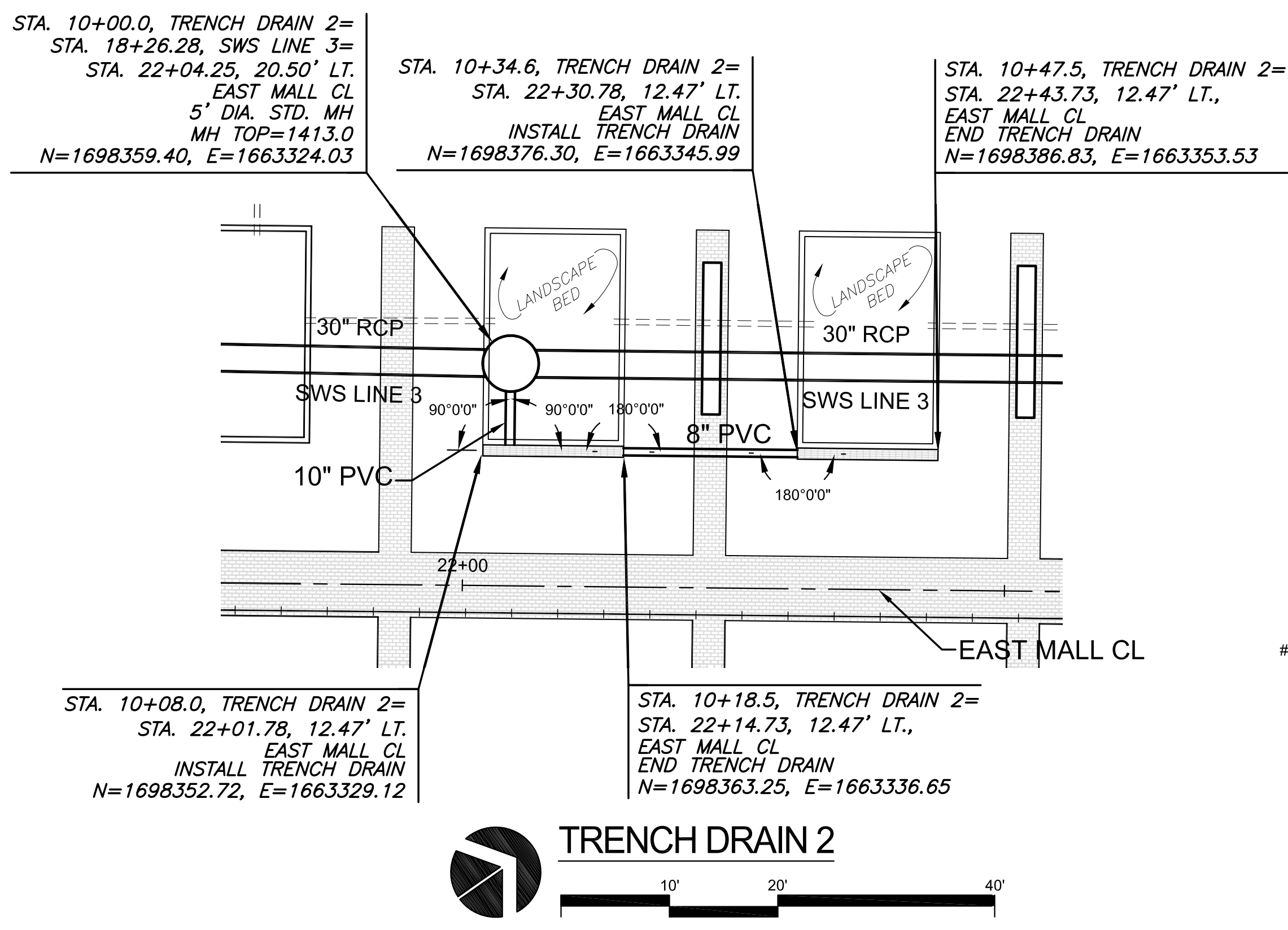
Department of Administration  
Office of Facilities & Property Management  
Design, Construction & Compliance  
800 SW Jackson, Suite 700  
Topeka, Kansas 66612-1216  
Phone 785-296-8899

WICHITA STATE UNIVERSITY  
**INNOVATION CAMPUS INFRASTRUCTURE PHASE 2**  
1845 FAIRMOUNT ST.  
WICHITA, KANSAS 67260-0023  
DRAWN BY: WNU  
CHECKED BY: WNU  
DATE: 11/11/2016

TRENCH DRAIN 1-3  
A-012817(a)  
80 OF 165  
ORIGINAL CONTRACT DOCUMENTS



**BID ALTERNATE #1**  
BASE BID: CONSTRUCT EARTHWORK, SUBGRADE PREPARATION, FIBER OPTIC INFRASTRUCTURE & CABLING, SWS LINE 3, SWS LINE 3A, SWS LINE 3C, SWS LINE 3D AND SWS LINE 3E ACCORDING TO CONSTRUCTION DOCUMENTS AND SPECIFICATIONS.  
BID ALTERNATE: CONSTRUCT REINFORCED CRUSHED AGGREGATE BASE, CONCRETE PAVEMENT, BRICK PAVERS, LIMESTONE BENCH, RAISED BRICK SEAT WALL, SWS LINE 3B, SWS TRENCH DRAINS, PEDESTRIAN LIGHTING FIXTURES, POLES, & ASSOCIATED UNDERGROUND POWER, LANDSCAPE AND IRRIGATION WITHIN THE AREA DENOTED ACCORDING TO CONSTRUCTION DOCUMENTS AND SPECIFICATIONS.



NOTE:  
SEE EAST MALL GRADING SHEETS FOR TRENCH DRAIN TOP ELEVATIONS (SHEETS 32 - 34).

J:\PROJECTS\2015\1501010265\_WSU\_INNOVATION\_INFRASTRUCTURE\150265\_CAD\SHOTS\505\_CIVIL\SWS\15095\_DP\_T001.DWG

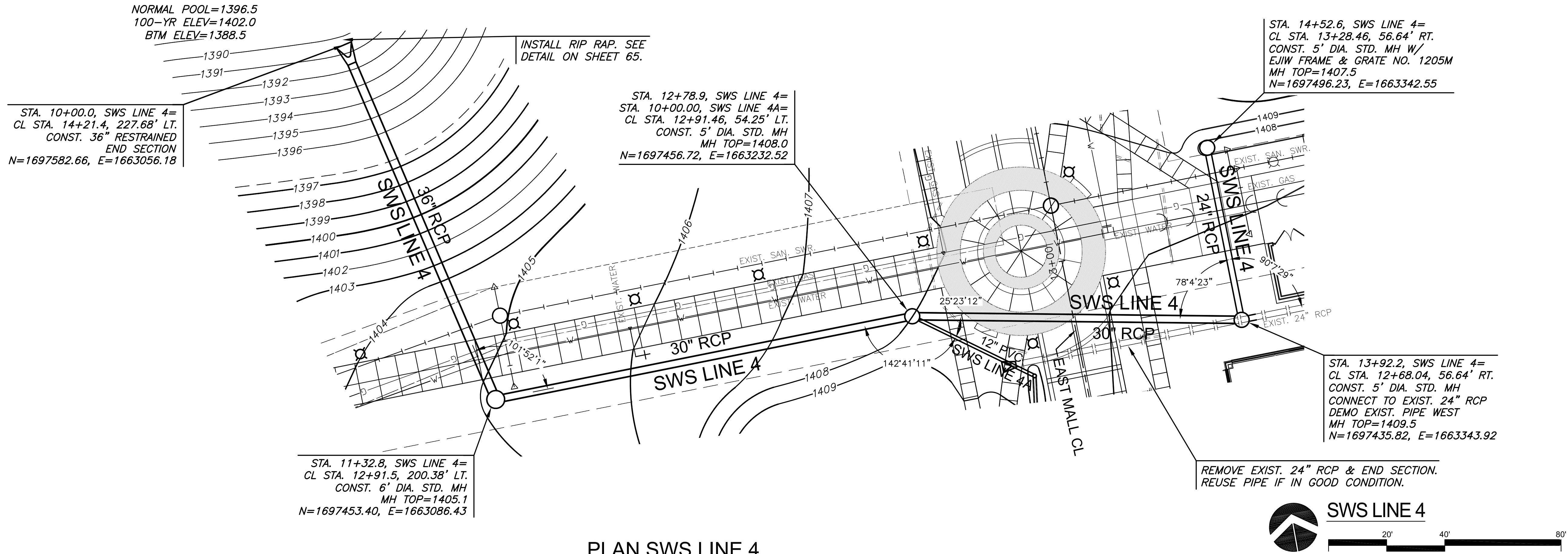
NORMAL POOL=1396.5  
100-YR ELEV=1402.0  
BTM ELEV=1388.5

STA. 10+00.0, SWS LINE 4=  
CL STA. 14+21.4, 227.68' LT.  
CONST. 36" RESTRAINED  
END SECTION  
N=1697582.66, E=1663056.18

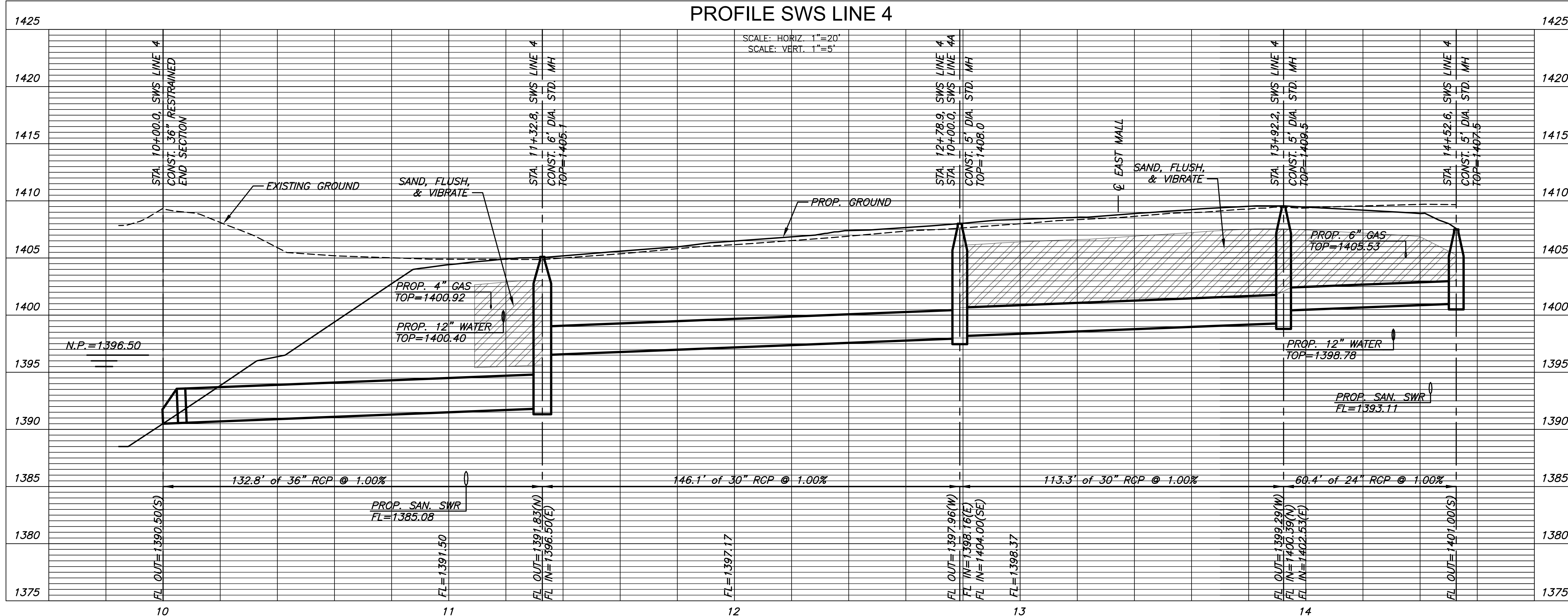
INSTALL RIP RAP. SEE  
DETAIL ON SHEET 65.

STA. 12+78.9, SWS LINE 4=  
CL STA. 10+00.00, SWS LINE 4A=  
CL STA. 12+91.46, 54.25' LT.  
CONST. 5' DIA. STD. MH  
MH TOP=1408.0  
N=1697456.72, E=1663232.52

STA. 14+52.6, SWS LINE 4=  
CL STA. 13+28.46, 56.64' RT.  
CONST. 5' DIA. STD. MH W/  
EJWW FRAME & GRATE NO. 1205M  
MH TOP=1407.5  
N=1697496.23, E=1663342.55



PLAN SWS LINE 4  
PROFILE SWS LINE 4



REVISION	DATE

DIVISION OF ADMINISTRATION & FINANCE  
FACILITIES PLANNING  
1845 FAIRMOUNT ST.  
WICHITA, KANSAS 67260-0047  
Phone 316-978-3030

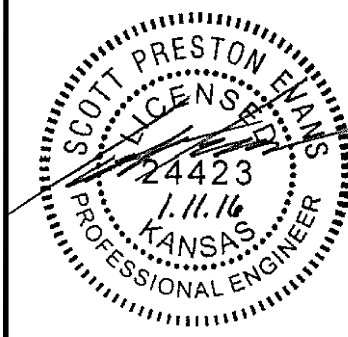
Department of Administration  
Office of Facilities & Property Management  
Design, Construction & Compliance  
800 SW Jackson, Suite 700  
Topeka, Kansas 66612-1216  
Phone 785-296-8899

WICHITA STATE UNIVERSITY  
INNOVATION CAMPUS INFRASTRUCTURE  
PHASE 2  
1845 FAIRMOUNT ST.  
WICHITA, KANSAS 67260-0023  
DRAWN BY: WNU  
CHECKED BY:  
DATE: 11/11/2016

SWS LINE 4  
A-012817(a)  
81 OF 165  
ORIGINAL CONTRACT DOCUMENTS

J:\PROJECTS\2015\1501010265\_WSU\_INNOVATION\_INFRASTRUCTURE\_REL\_150285\_CAD\SHS\1506\_DP\_4.DWG





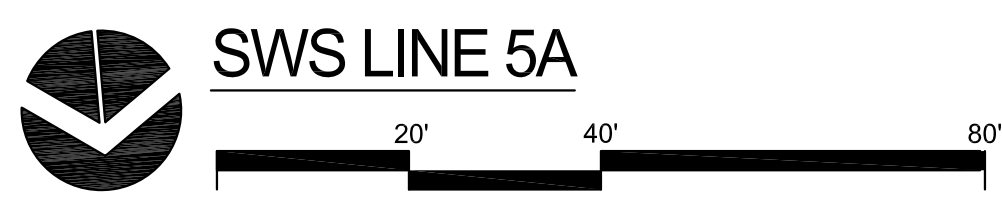
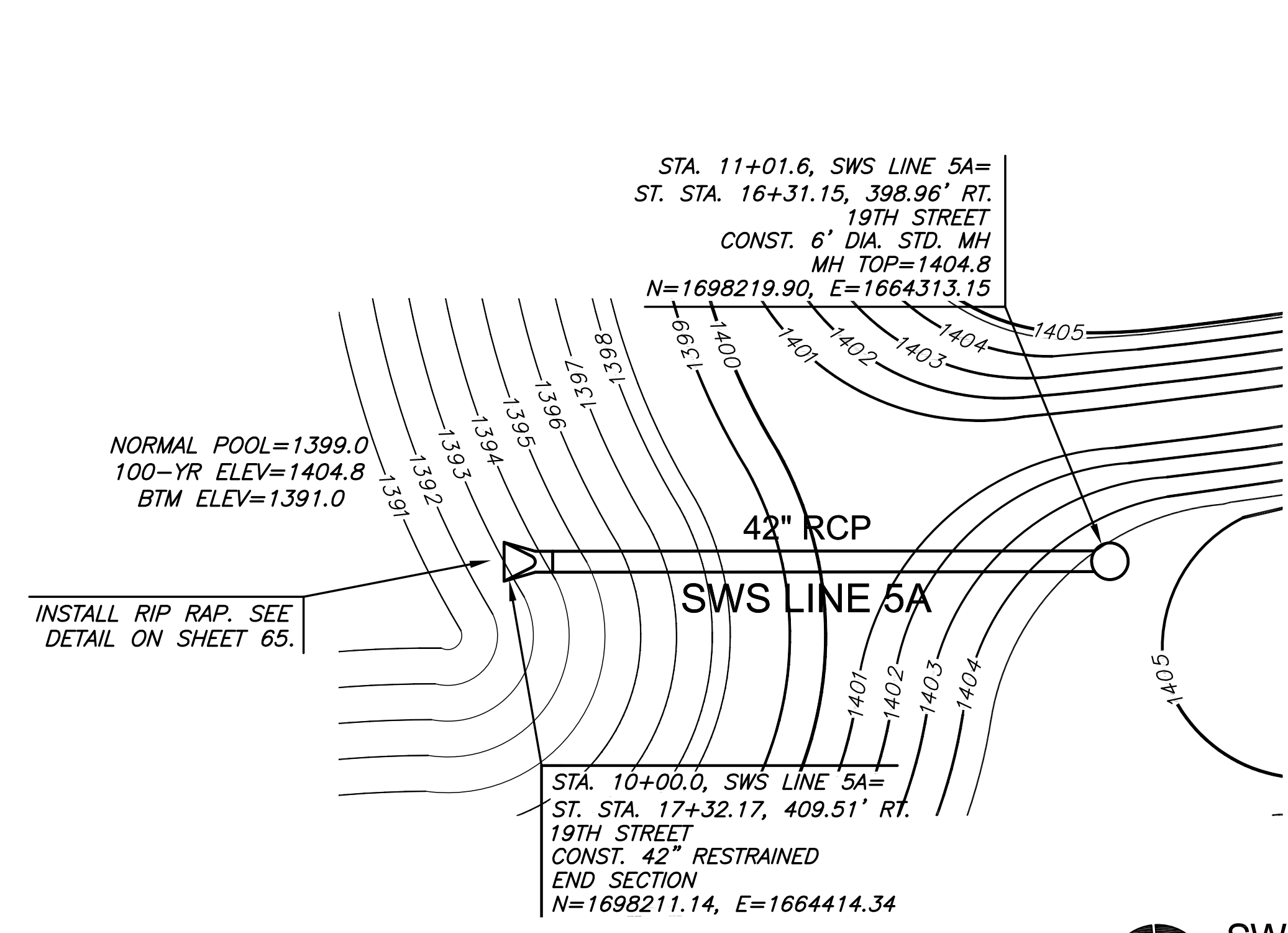
REVISION	DATE

DIVISION OF ADMINISTRATION & FINANCE  
FACILITIES PLANNING  
1845 FAIRMOUNT ST.  
WICHITA, KANSAS 67260-0047  
Phone 316-978-3030

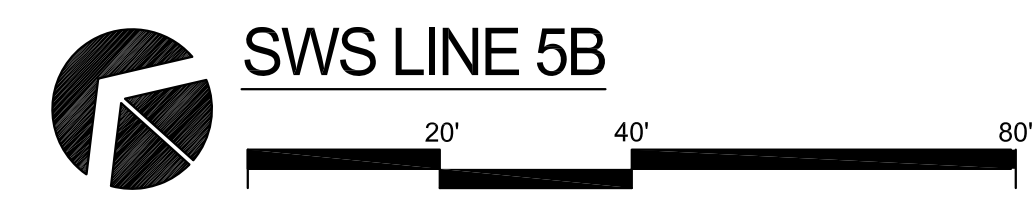
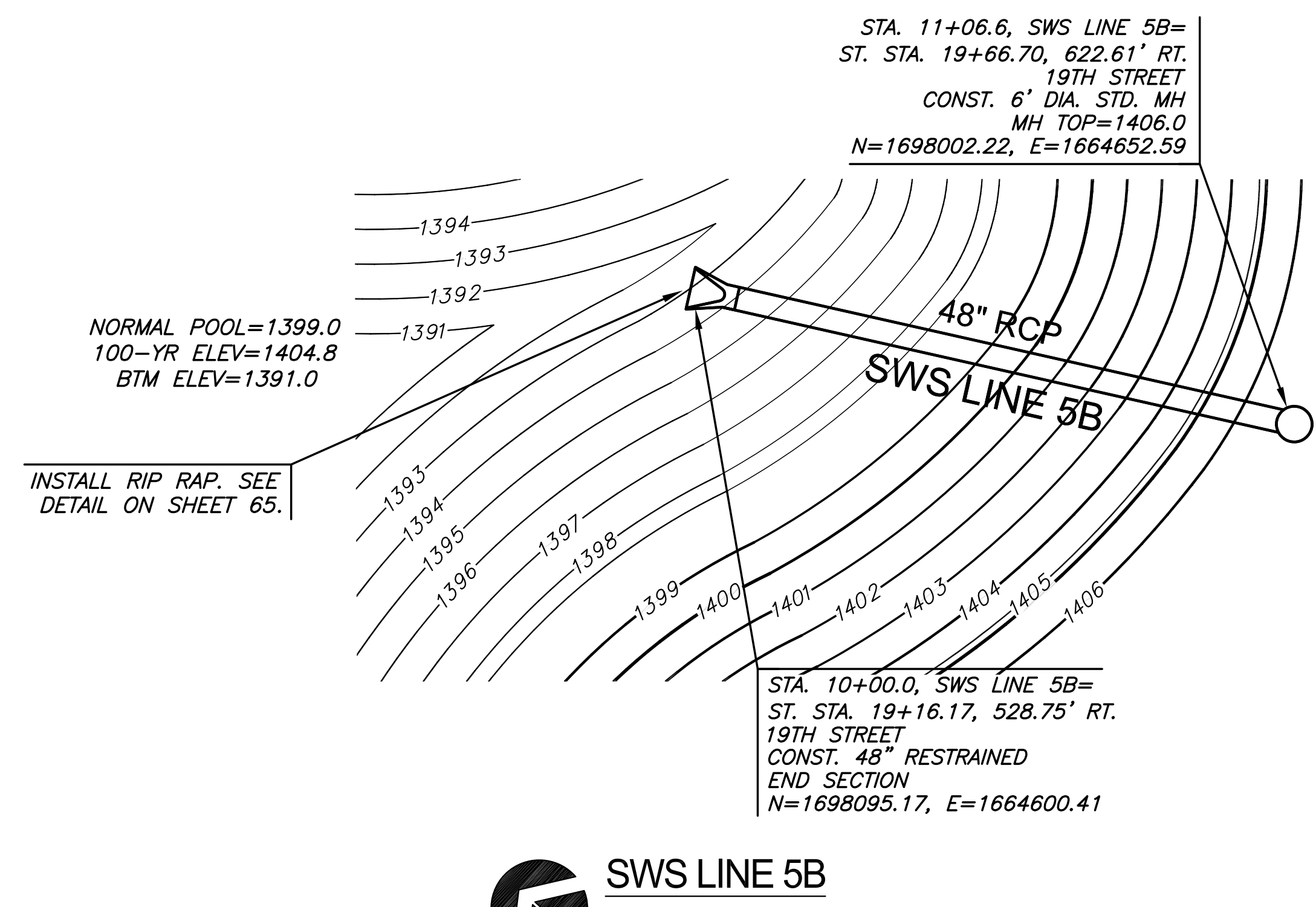
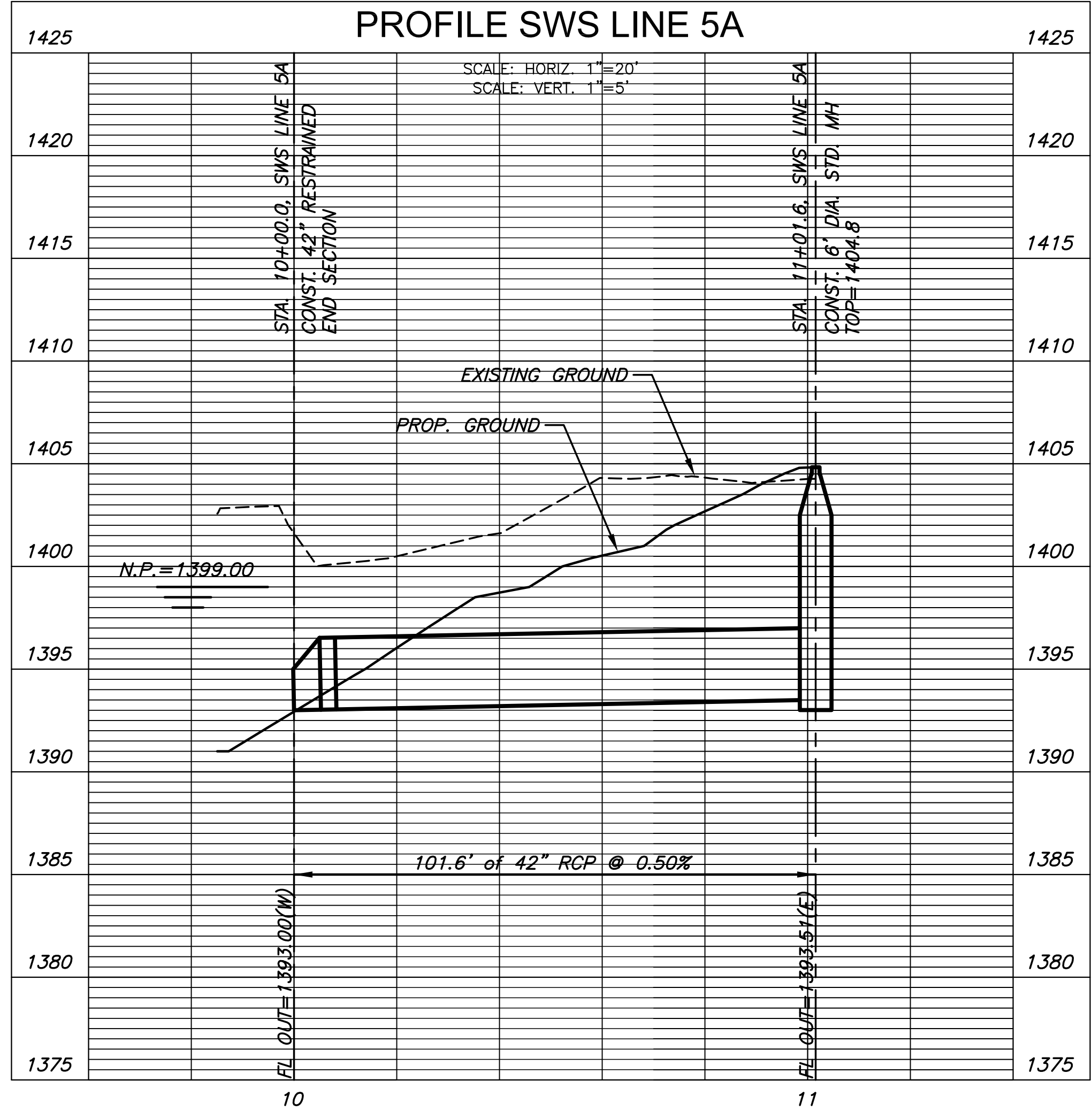
Department of Administration  
Office of Facilities & Property Management  
Design, Construction & Compliance  
800 SW Jackson, Suite 700  
Topeka, Kansas 66612-1216  
Phone 785-296-8899

WICHITA STATE UNIVERSITY  
**INNOVATION CAMPUS INFRASTRUCTURE PHASE 2**  
1845 FAIRMOUNT ST.  
WICHITA, KANSAS 67260-0023  
DRAWN BY: WJU  
CHECKED BY:

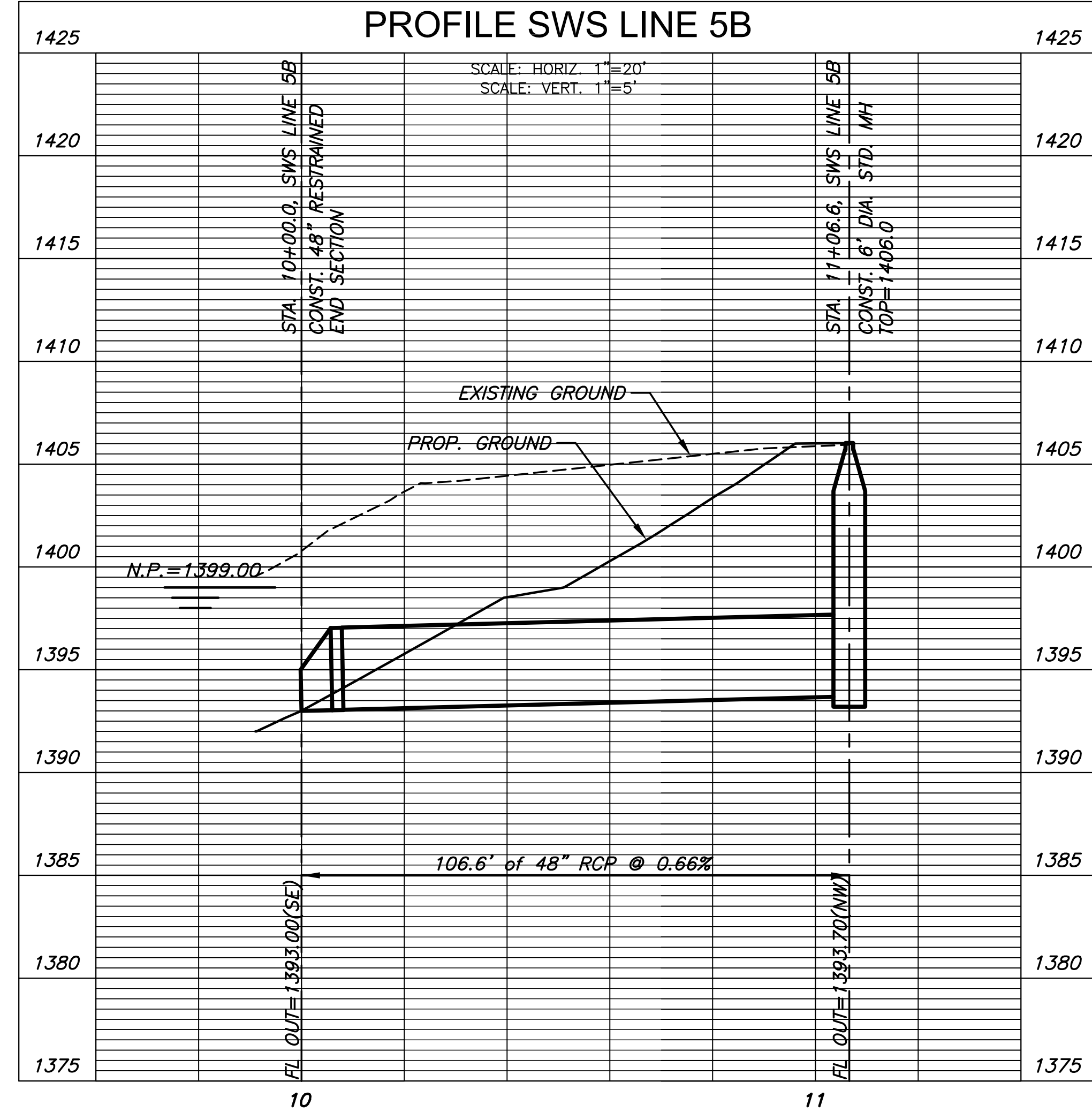
SWS LINE 5A-5B  
A-012817(a)  
83 OF 165  
ORIGINAL CONTRACT DOCUMENTS



PLAN SWS LINE 5A  
PROFILE SWS LINE 5A



PLAN SWS LINE 5B  
PROFILE SWS LINE 5B



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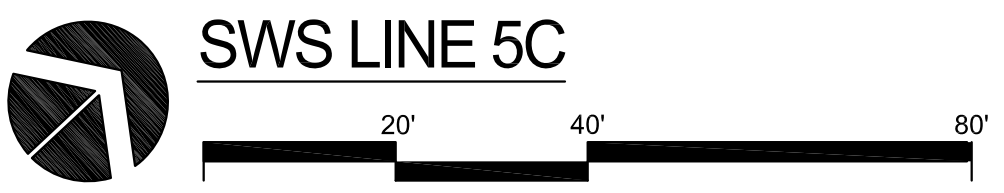
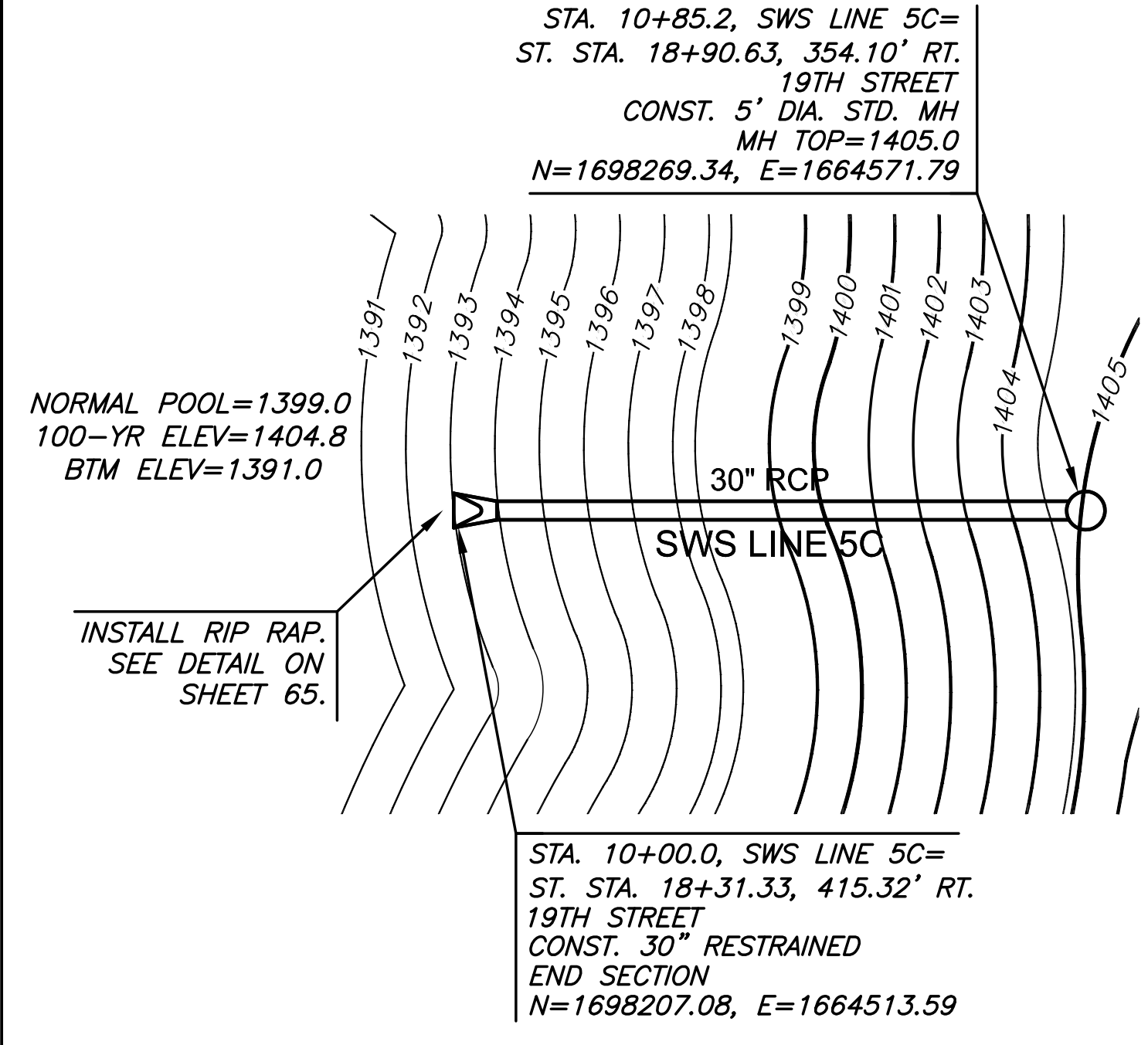
REVISION	DATE

DIVISION OF ADMINISTRATION & FINANCE  
FACILITIES PLANNING  
1845 FAIRMOUNT ST.  
WICHITA, KANSAS 67260-0047  
Phone 316-978-3030

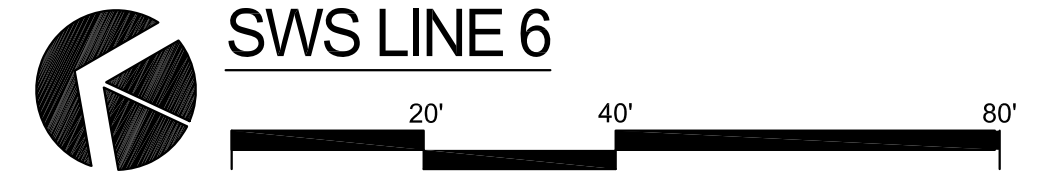
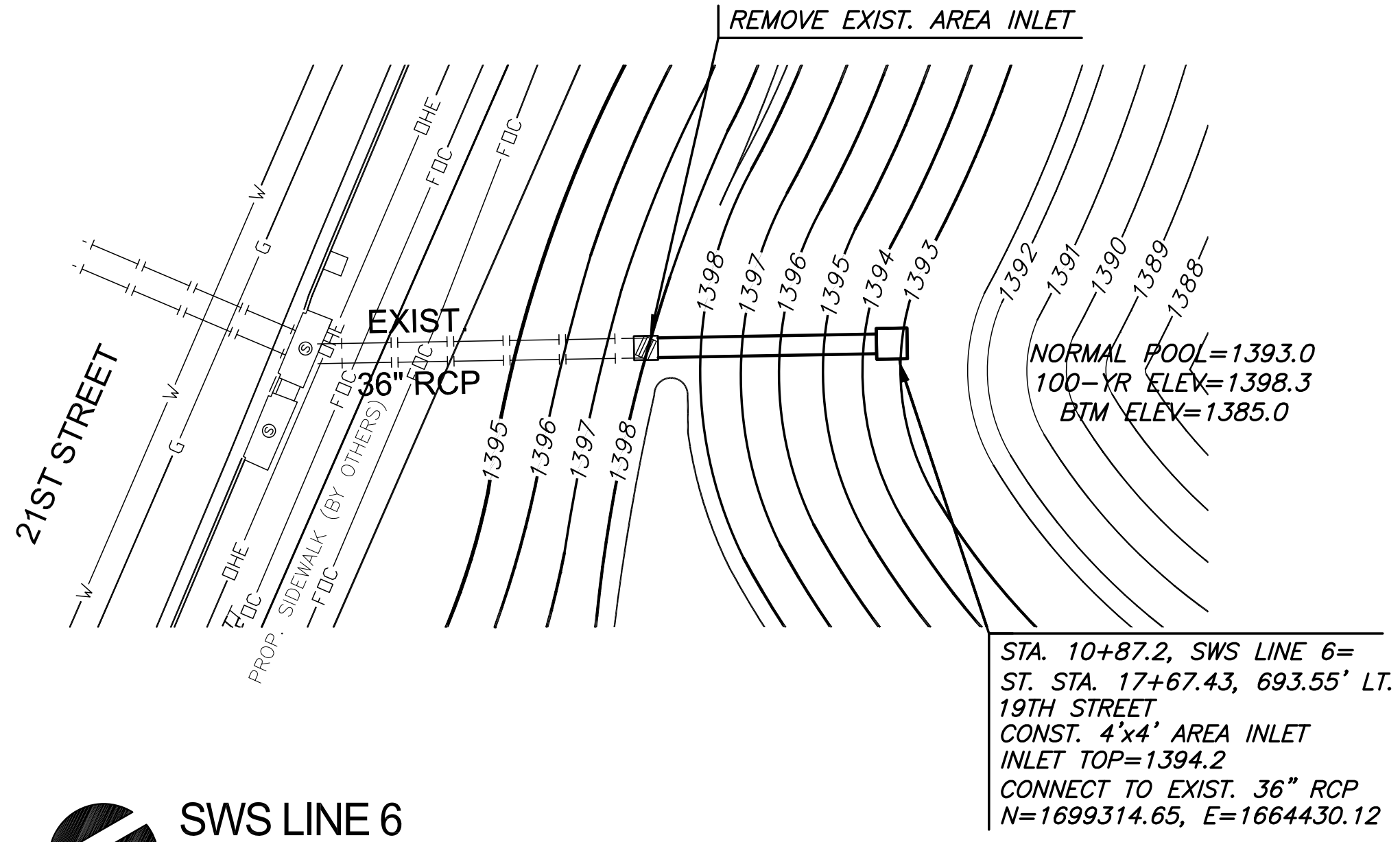
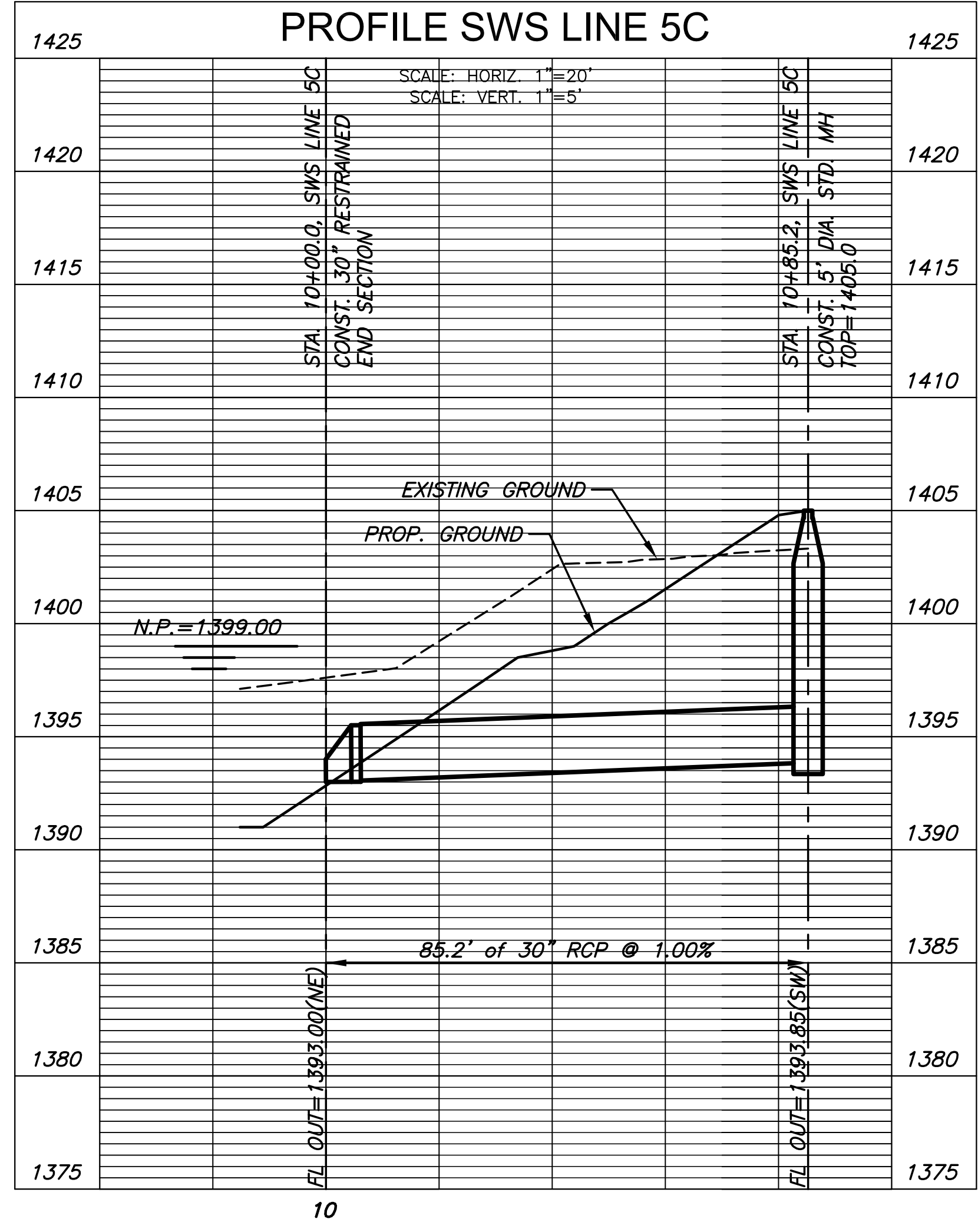
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Design, Construction & Compliance  
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Topeka, Kansas 66612-1216  
Phone 785-296-8899

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**INNOVATION CAMPUS INFRASTRUCTURE PHASE 2**  
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WICHITA, KANSAS 67260-0023  
DRAWN BY: WNU  
CHECKED BY:

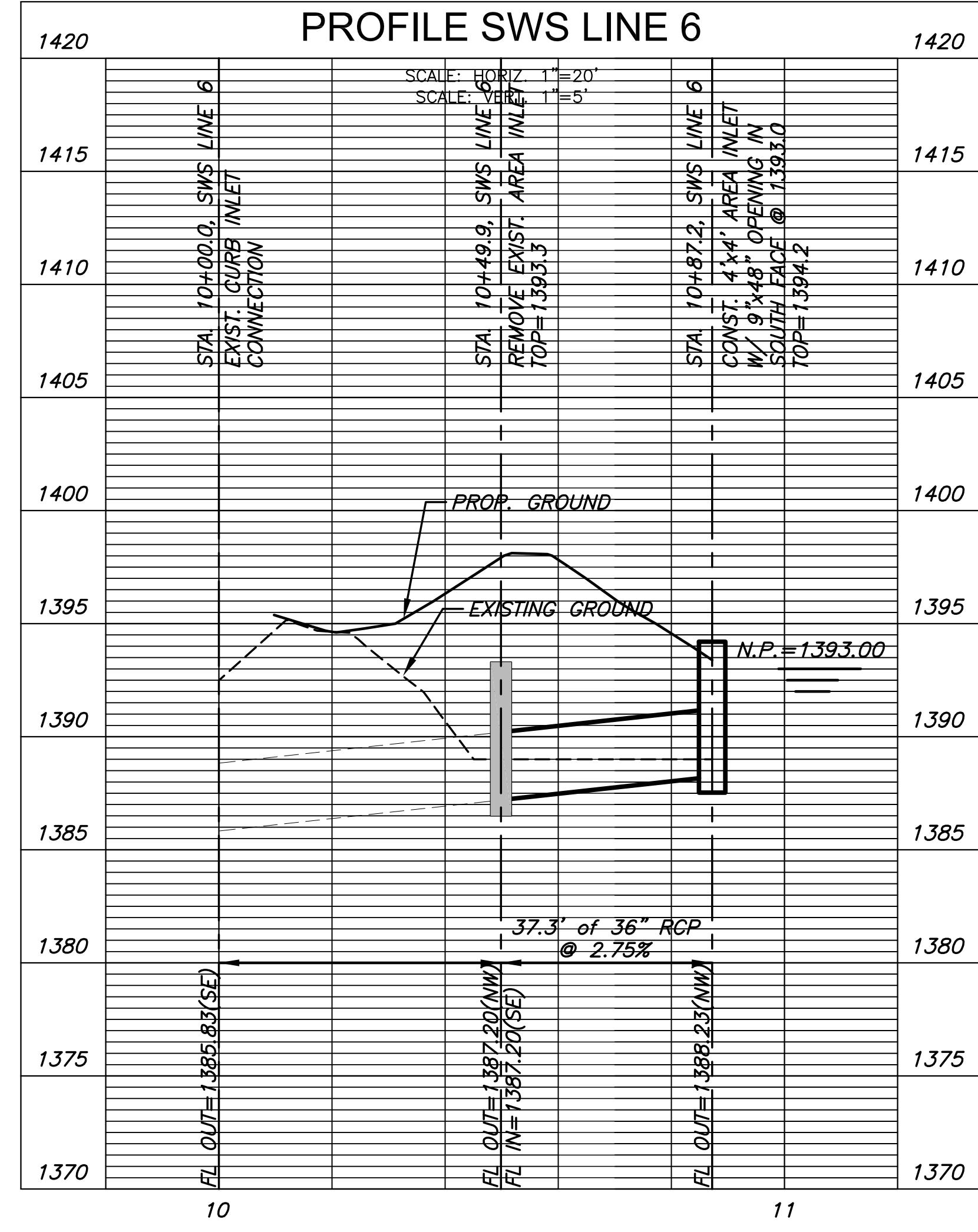
SWS LINE 5C-6A  
A-012817(a)  
84 OF 165  
ORIGINAL CONTRACT DOCUMENTS



PLAN SWS LINE 5C  
PROFILE SWS LINE 5C



PLAN SWS LINE 6  
PROFILE SWS LINE 6



J:\PROJECTS\2015\15010285\_WSU\_INNOVATION INFRASTRUCTURE\_REL\_150285 CAD\SHS\150285\_DP\_5C-6A.DWG

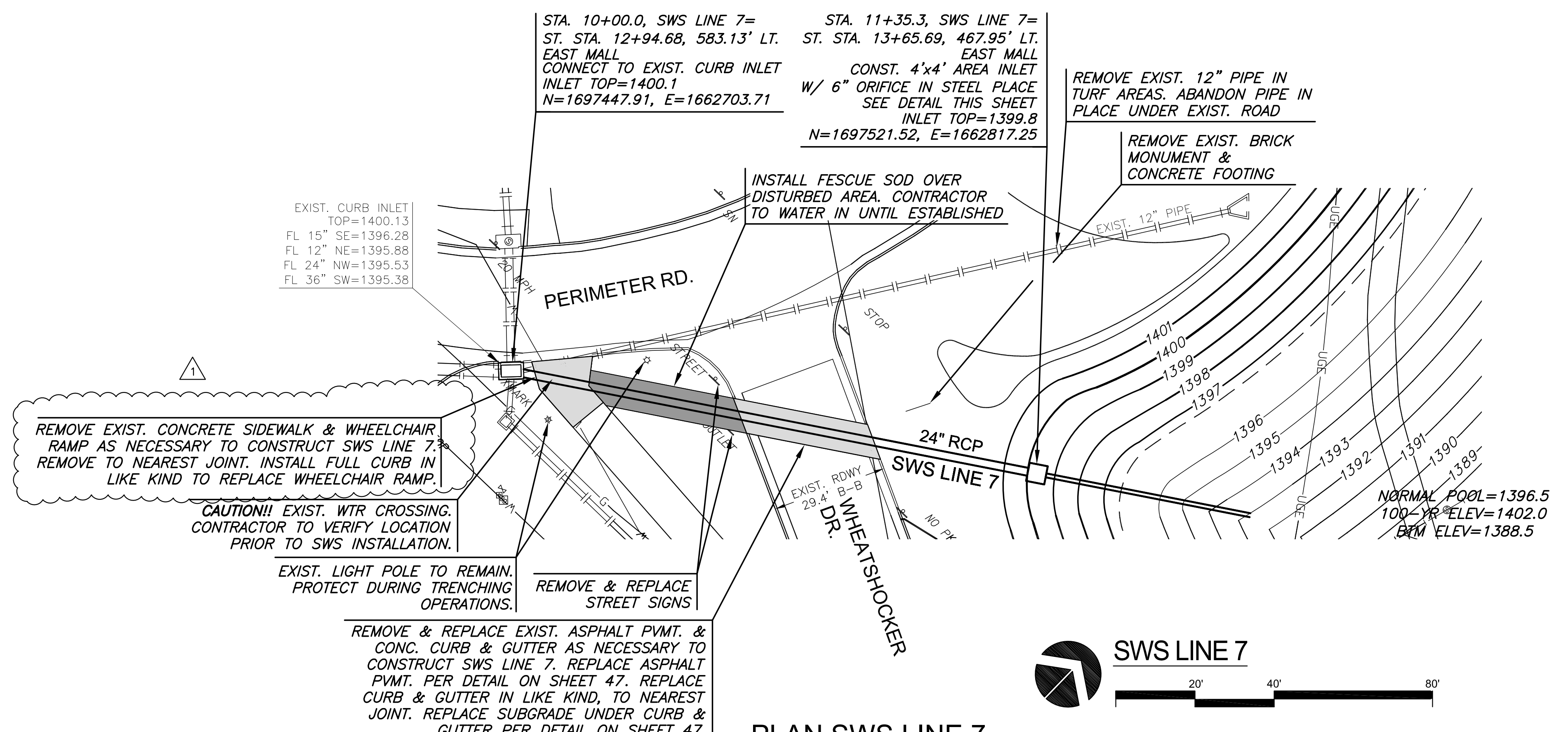
ADDENDUM #	REVISION	DATE

DIVISION OF ADMINISTRATION & FINANCE  
FACILITIES PLANNING  
1845 FAIRMOUNT ST.  
WICHITA, KANSAS 67260-0047  
Phone 316-978-3030

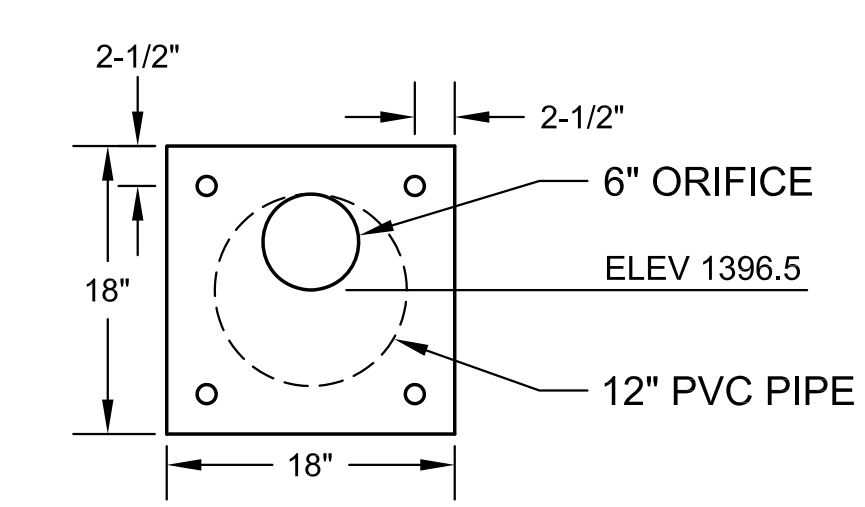
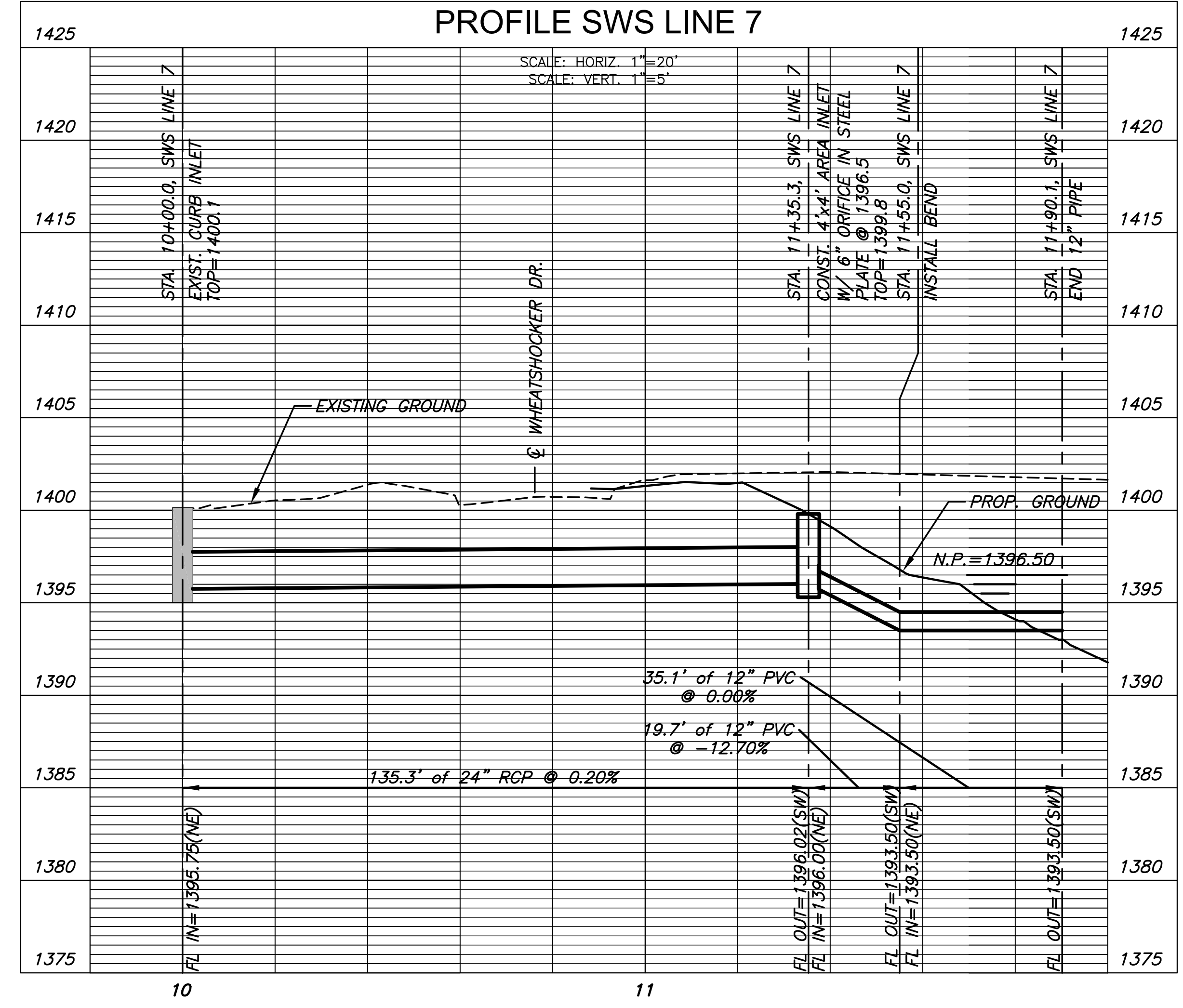
Department of Administration  
Office of Facilities & Property Management  
Design, Construction & Compliance  
800 SW Jackson, Suite 700  
Topeka, Kansas 66612-1216  
Phone 785-296-8899

WICHITA STATE UNIVERSITY  
**INNOVATION CAMPUS INFRASTRUCTURE PHASE 2**  
1845 FAIRMOUNT ST.  
WICHITA, KANSAS 67260-0023  
DATE: 11/11/2016  
DRAWN BY: WJN  
CHECKED BY:

SWS LINE 7  
A-012817(a)  
85 OF 165  
ORIGINAL CONTRACT DOCUMENTS



**PLAN SWS LINE 7**

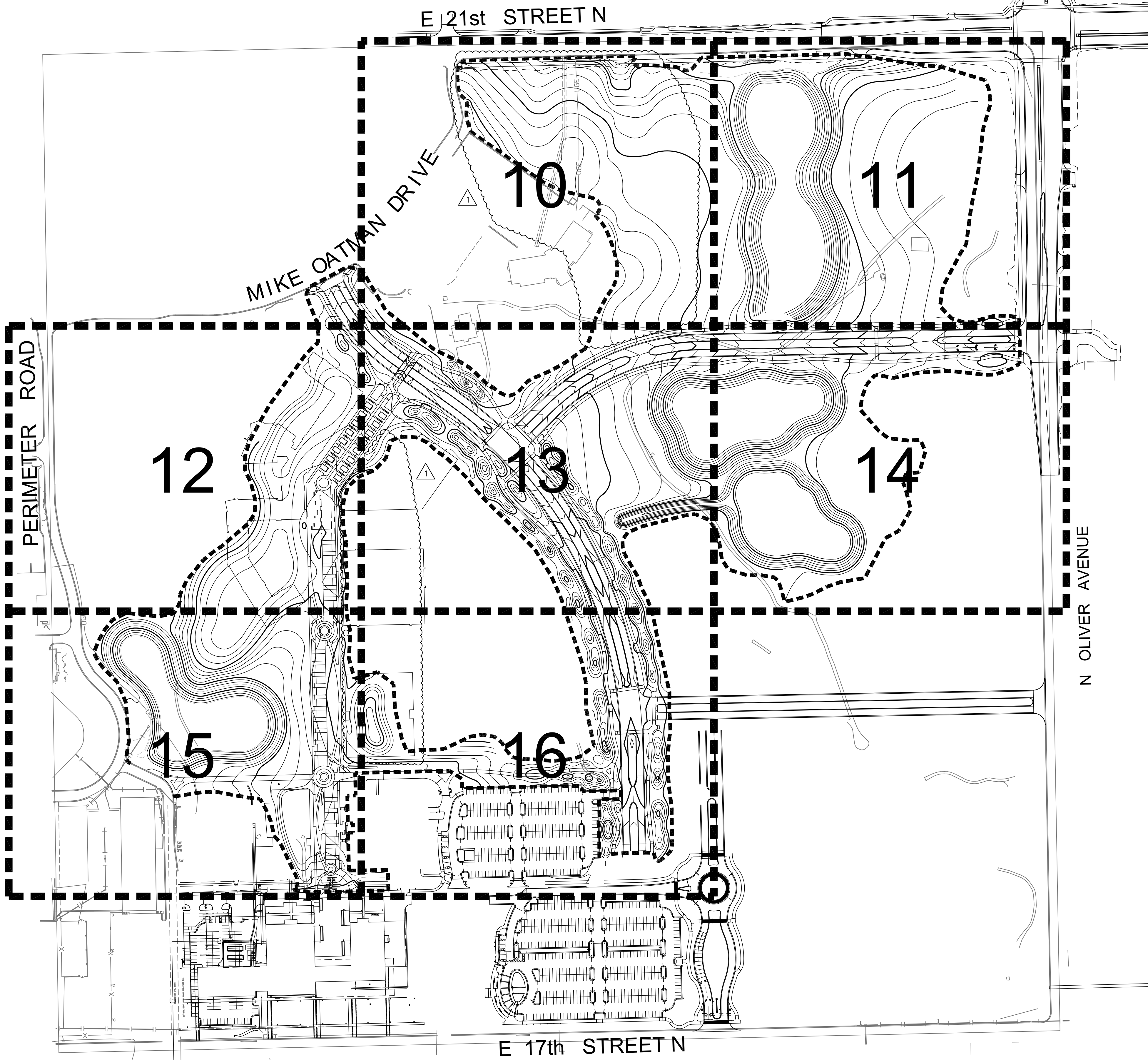


- NOTE:
- ORIFICE PLATE TO BE 1/2" A606 CORTEN STEEL, BOLTS TO BE (4) HILTI 304 STAINLESS STEEL KWIK BOLT 3 WEDGE ANCHOR W/ 4" MIN. CONC. EMBED
  - HAND FORM INVERT UP TO AND ABUTTING ORIFICE PLATE AS NECESSARY TO ENSURE POSITIVE FLOW TO OUTFLOW PIPE

J:\PROJECTS\2015\1501010285\_WSU\_INNOVATION INFRASTRUCTURE\REL\_150285\_CAD\SHS\1505\_CIVIL\SWS\1505\_DP\_7.DWG



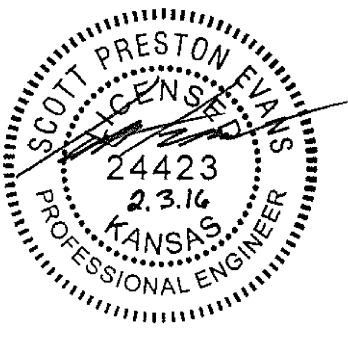
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OVERALL GRADING KEY MAP



SCALE: 1" = 150'



ADDENDUM #	REVISION	DATE

DIVISION OF ADMINISTRATION & FINANCE  
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 WICHITA, KANSAS 67260-0047  
 Phone 316-978-3030

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 Design, Construction & Compliance  
 800 SW Jackson, Suite 700  
 Topeka, Kansas 66612-1216  
 Phone 785-296-8899

WICHITA STATE UNIVERSITY  
**INNOVATION CAMPUS INFRASTRUCTURE**  
**PHASE 2**  
 1845 FAIRMOUNT ST.  
 WICHITA, KANSAS 67260-0023  
 DATE: 11/11/2016 DRAWN BY: ABC CHECKED BY: SPE

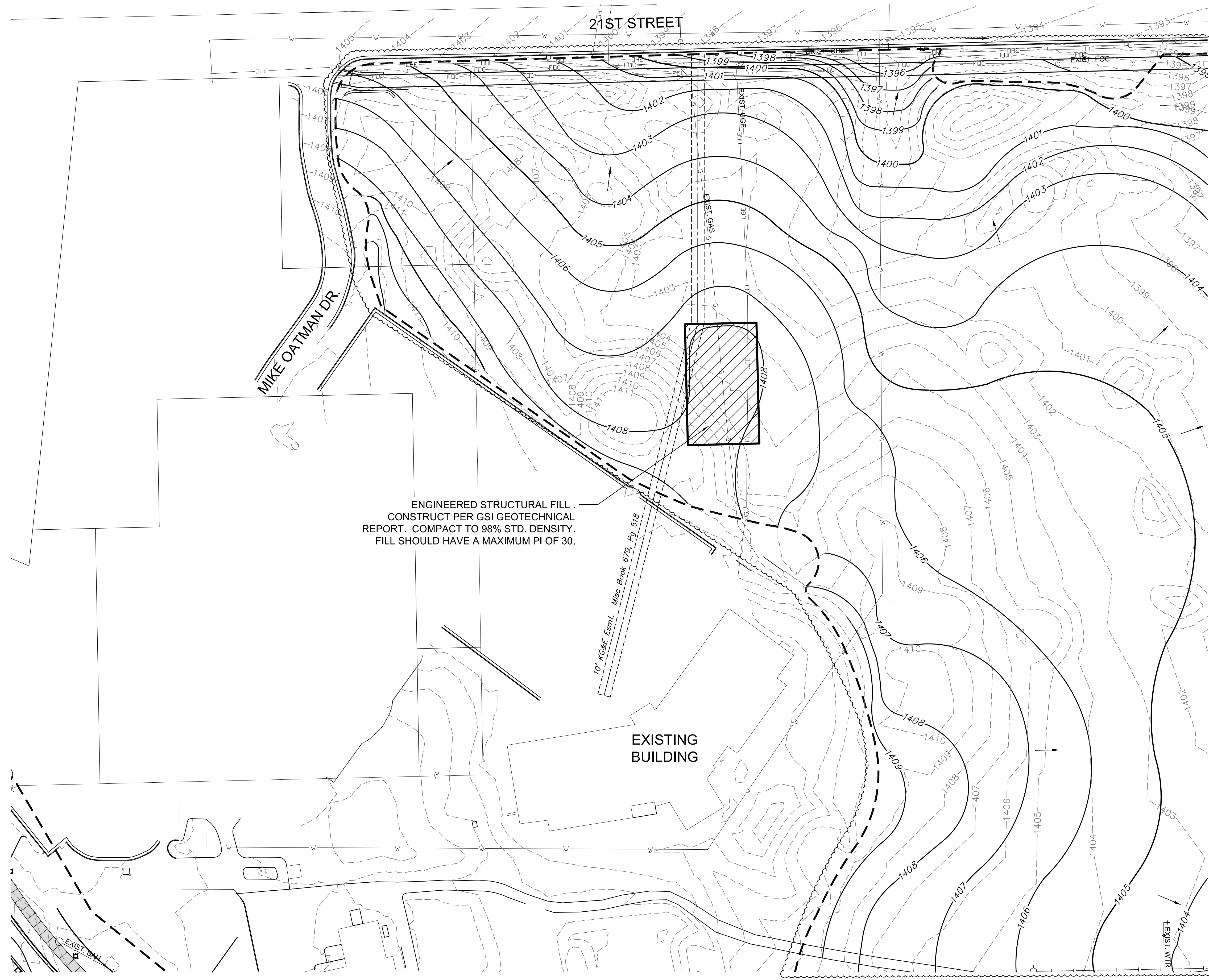
MASS GRADING KEY MAP

A-012817(a)

09 OF 165

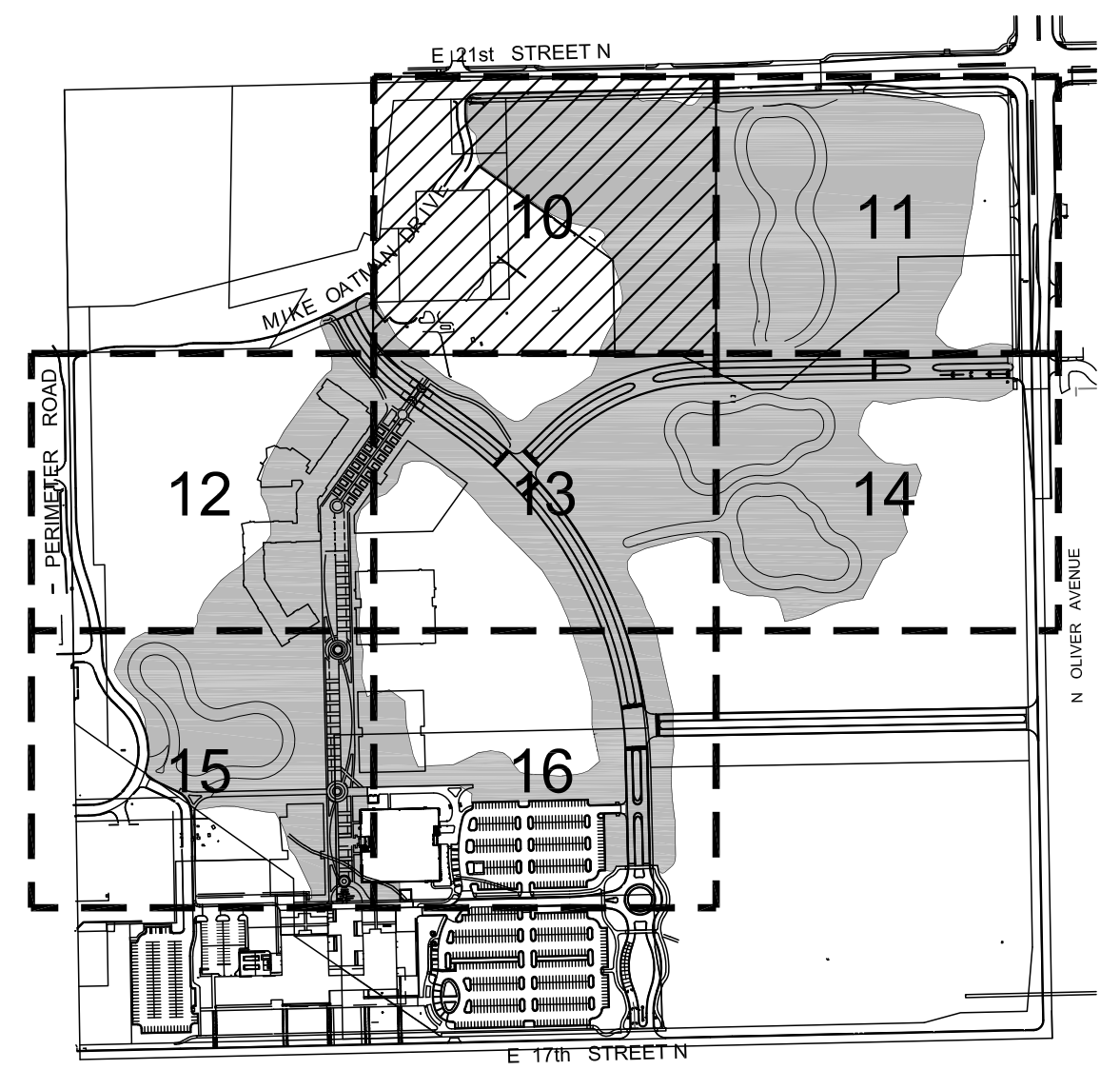
ORIGINAL CONTRACT DOCUMENTS

J:\PROJECTS\2015\15010285\_WSU\_INNOVATION INFRASTRUCTURE\150285 CAD\SHS\1505 CIVIL\GRD\MASS GRADING SHEETS\MASS GRADING -1.DWG



ENGINEERED STRUCTURAL FILL.  
CONSTRUCT PER GSI GEOTECHNICAL  
REPORT. COMPACT TO 98% STD. DENSITY.  
FILL SHOULD HAVE A MAXIMUM PI OF 30.

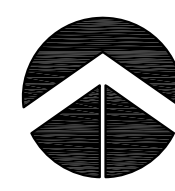
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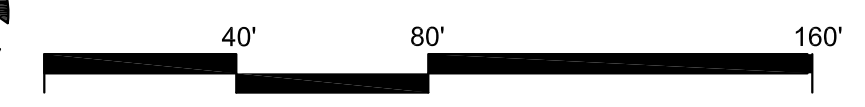
LOCATION MAP

**LEGEND**

- S — EXISTING SANITARY SEWER
- G — EXISTING GAS LINE
- W — EXISTING WATER LINE
- SS — EXISTING STORM SEWER
- E — EXISTING UNDERGROUND HIGH VOLT. ELECTRIC
- UGE — EXISTING UNDERGROUND ELECTRIC
- XXXX — PROPOSED GRADES
- XXXX — EXISTING GRADES
- — — — — LIMITS OF GRADING
- SLOPE ARROW
- 29.50 SPOT ELEVATION



**GRADING PLAN**



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ADDENDUM	REVISION	DATE
ADDENDUM 4		

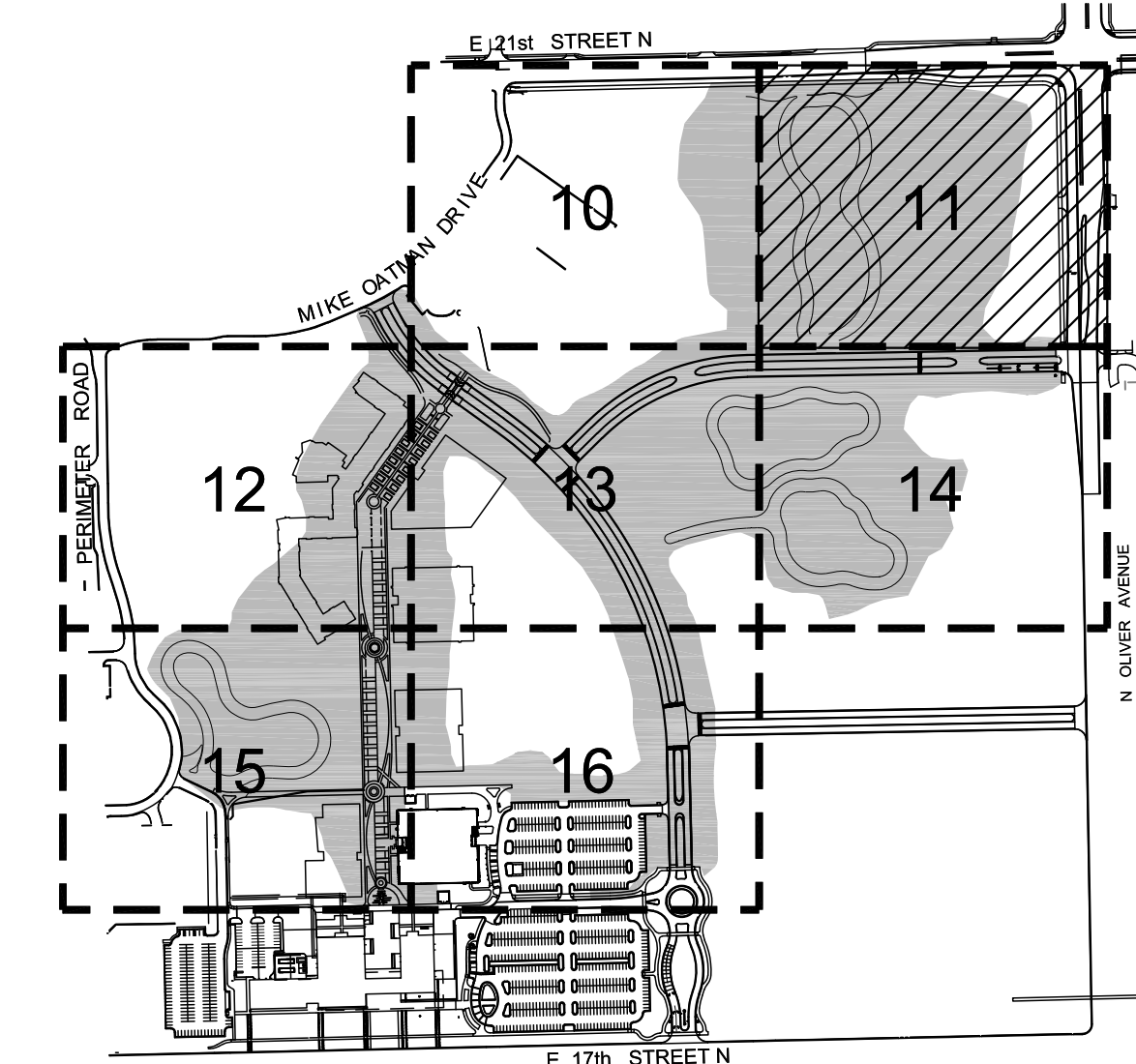
DIVISION OF ADMINISTRATION & FINANCE  
FACILITIES PLANNING  
1845 FAIRMOUNT ST.  
WICHITA, KANSAS 67260-0047  
Phone 316-978-3030

Department of Administration  
Office of Facilities & Property Management  
Design, Construction & Compliance  
800 SW Jackson, Suite 700  
Topeka, Kansas 66612-1216  
Phone 785-296-8899

WICHITA STATE UNIVERSITY  
**INNOVATION CAMPUS INFRASTRUCTURE PHASE 2**  
1845 FAIRMOUNT ST.  
WICHITA, KANSAS 67260-0023

DATE: 11/11/2016  
DRAWN BY:  
CHECKED BY:  
MASS GRADING 1  
A-012817(a)  
10 OF 165  
ORIGINAL CONTRACT DOCUMENTS

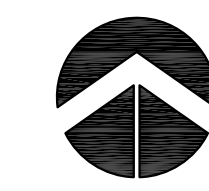
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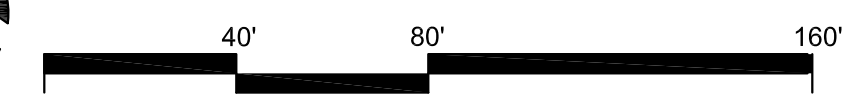
**LOCATION MAP**

**LEGEND**

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- S— EXISTING STORM SEWER
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- 0.8%— SLOPE ARROW
- 29.50— SPOT ELEVATION
- NORMAL POOL



**GRADING PLAN**



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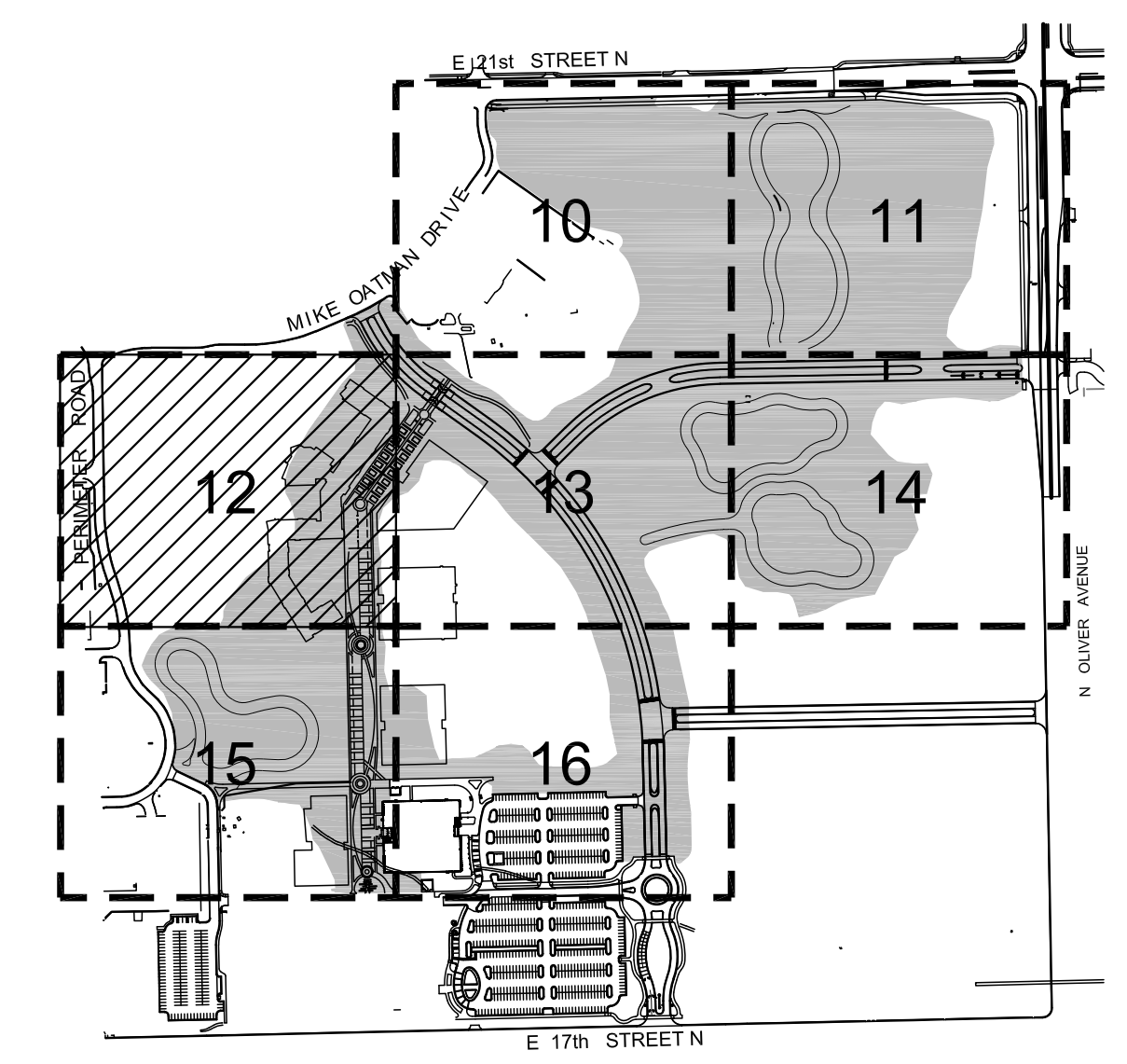
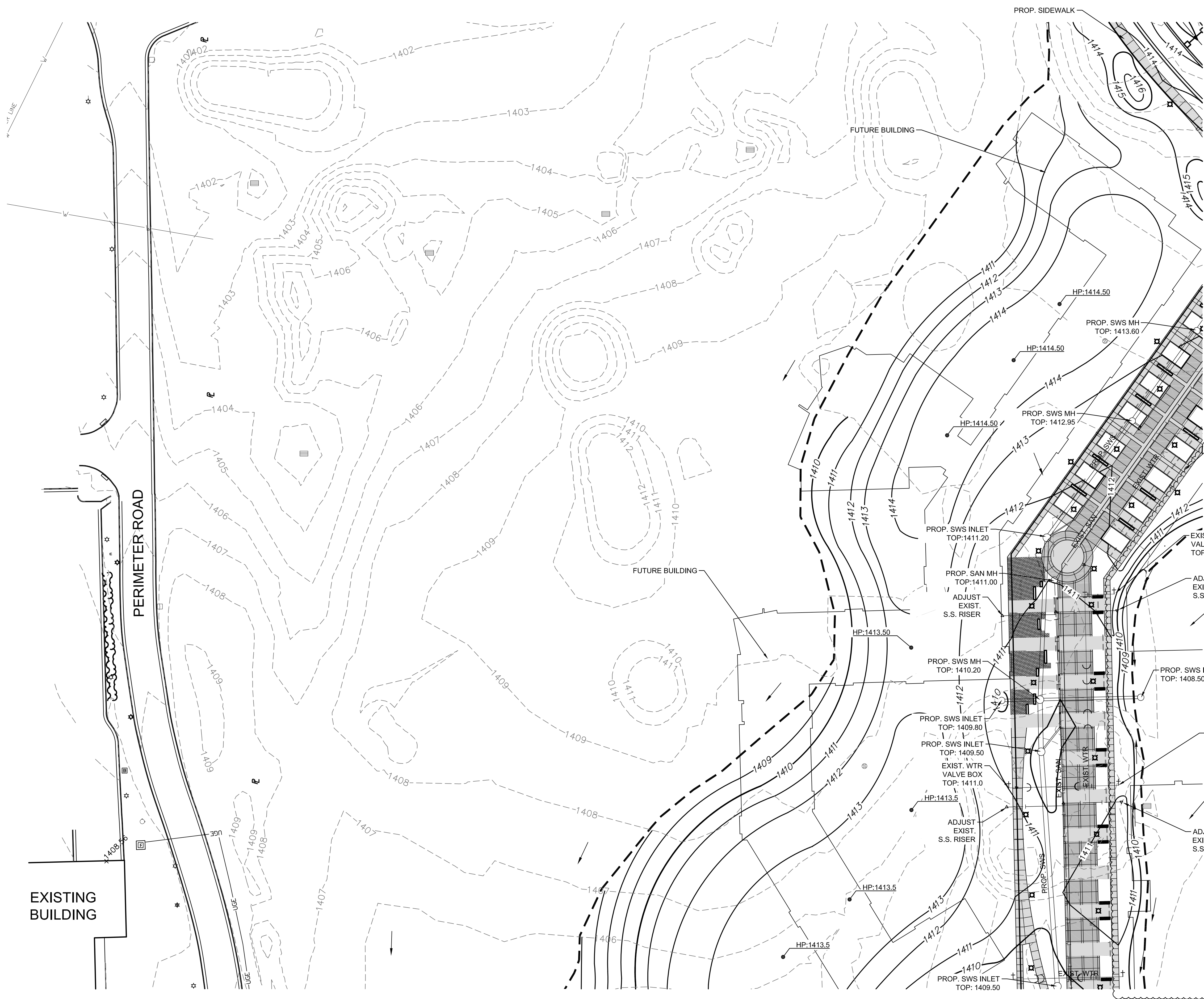
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MASS GRADING 2  
A-012817(a)  
11 OF 165  
ORIGINAL CONTRACT DOCUMENTS

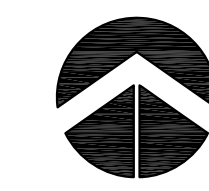
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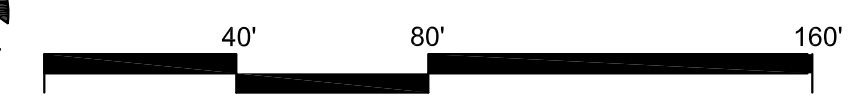
**LOCATION MAP**

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- 29.50 SPOT ELEVATION
- NORMAL POOL



**GRADING PLAN**



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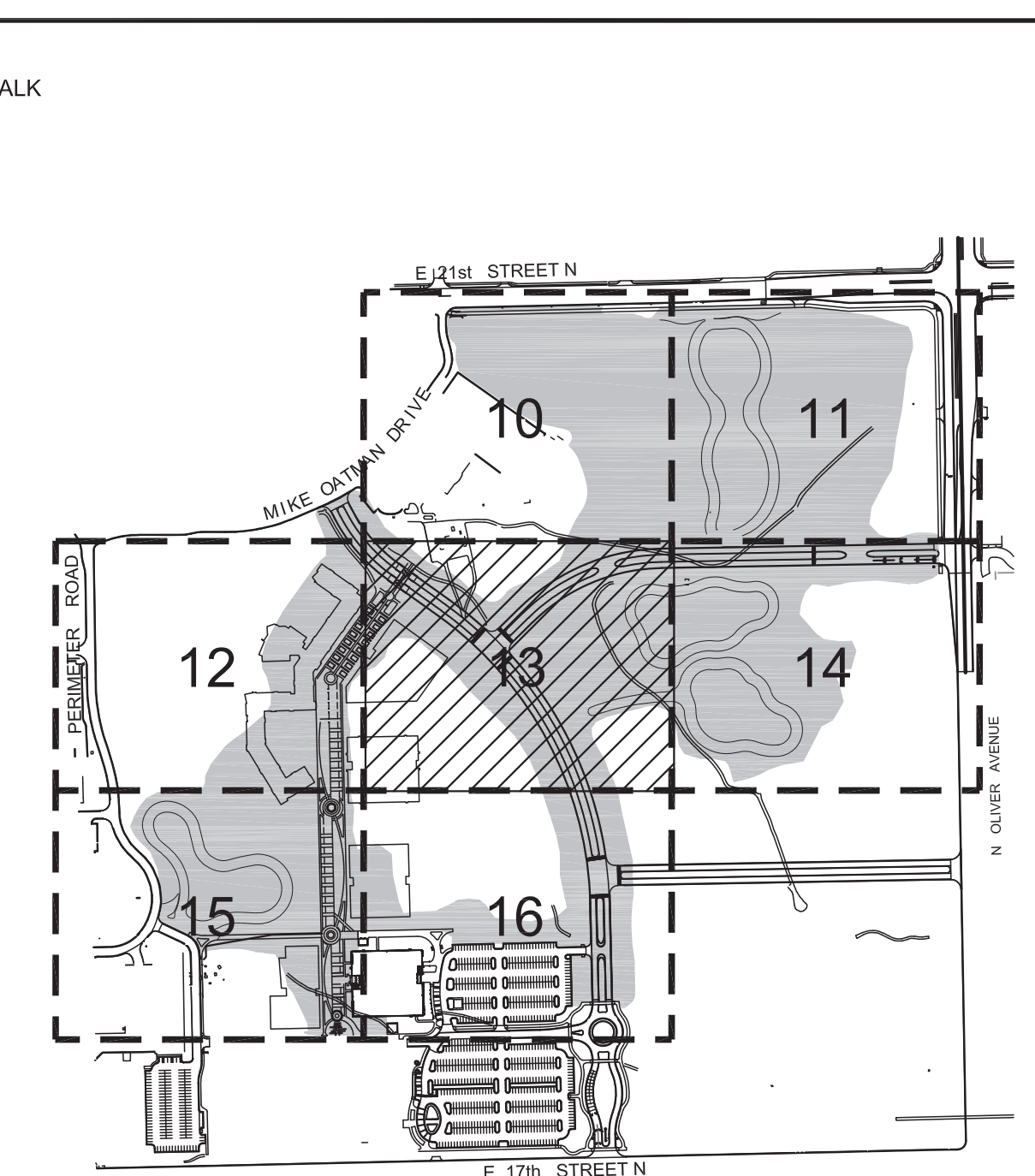
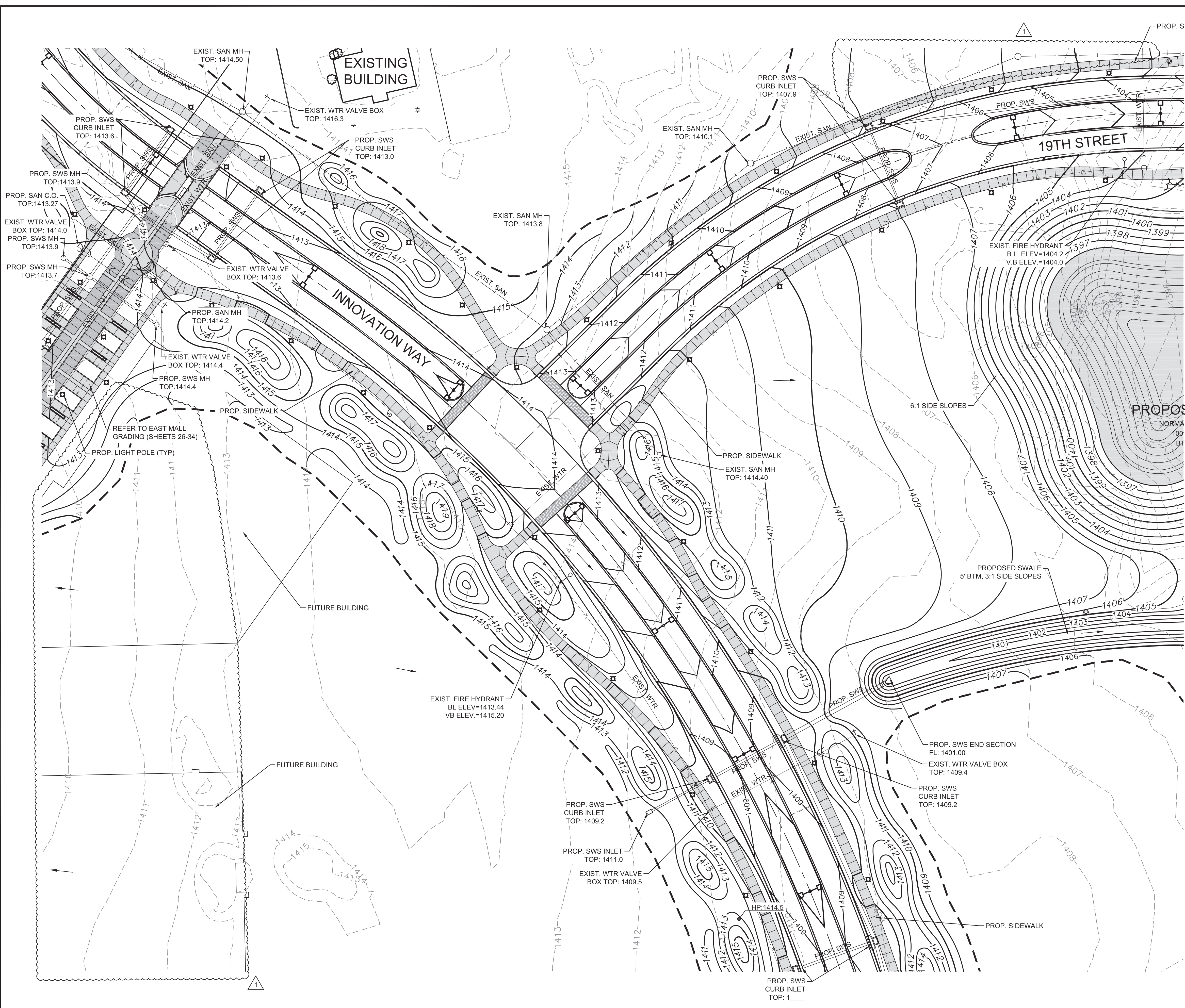
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MASS GRADING 3  
 A-012817(a)

12 OF 165  
 ORIGINAL CONTRACT DOCUMENTS

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**LOCATION MAP**

**LEGEND**

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- 29.50 SPOT ELEVATION
- NORMAL POOL



**MKEC**  
Wichita, KS • 316-684-9600

SCOTT PRESTON  
24423  
2.3.16  
KANSAS  
PROFESSIONAL ENGINEER

ADDENDUM	REVISION	DATE
2/3/16		
4		

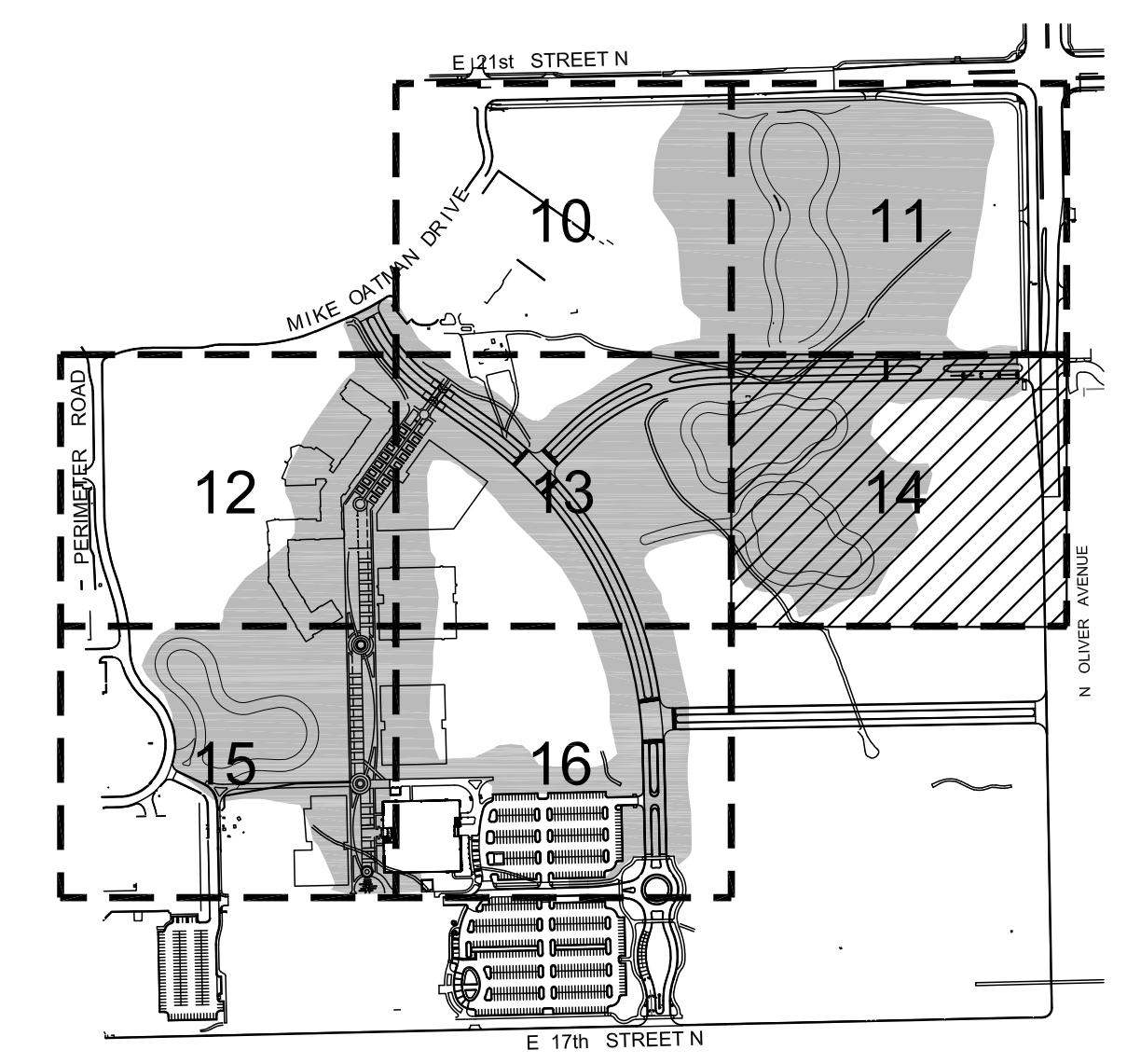
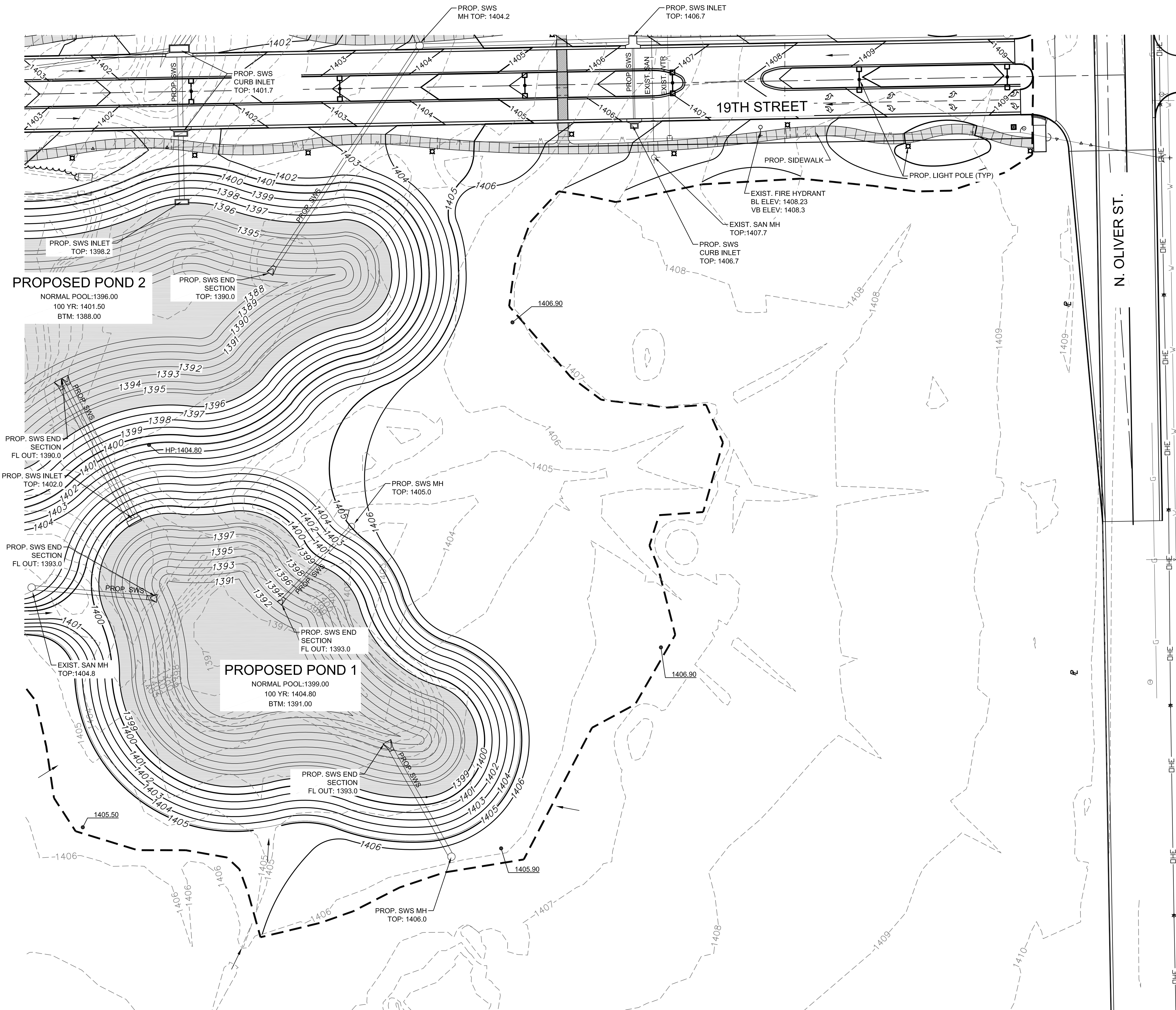
DIVISION OF ADMINISTRATION & FINANCE  
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Topeka, Kansas 66612-1216  
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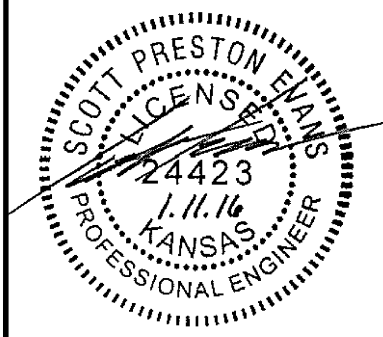
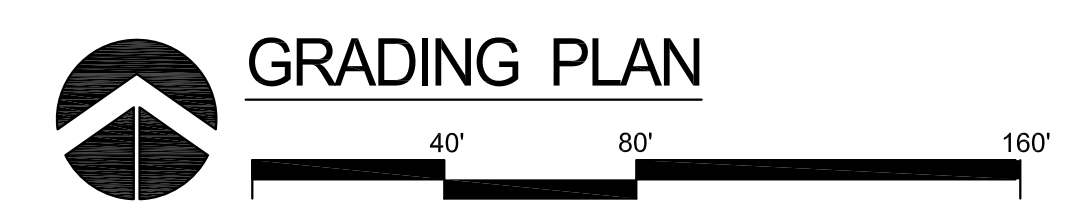
WICHITA STATE UNIVERSITY  
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WICHITA, KANSAS 67260-0023  
DRAWN BY: \_\_\_\_\_ CHECKED BY: \_\_\_\_\_

MASS GRADING 4  
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ORIGINAL CONTRACT DOCUMENTS

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- LEGEND**
- EXISTING SANITARY SEWER
  - G — EXISTING GAS LINE
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  - - - LIMITS OF GRADING
  - SLOPE ARROW
  - 29.50 SPOT ELEVATION
  - NORMAL POOL



REVISION	DATE

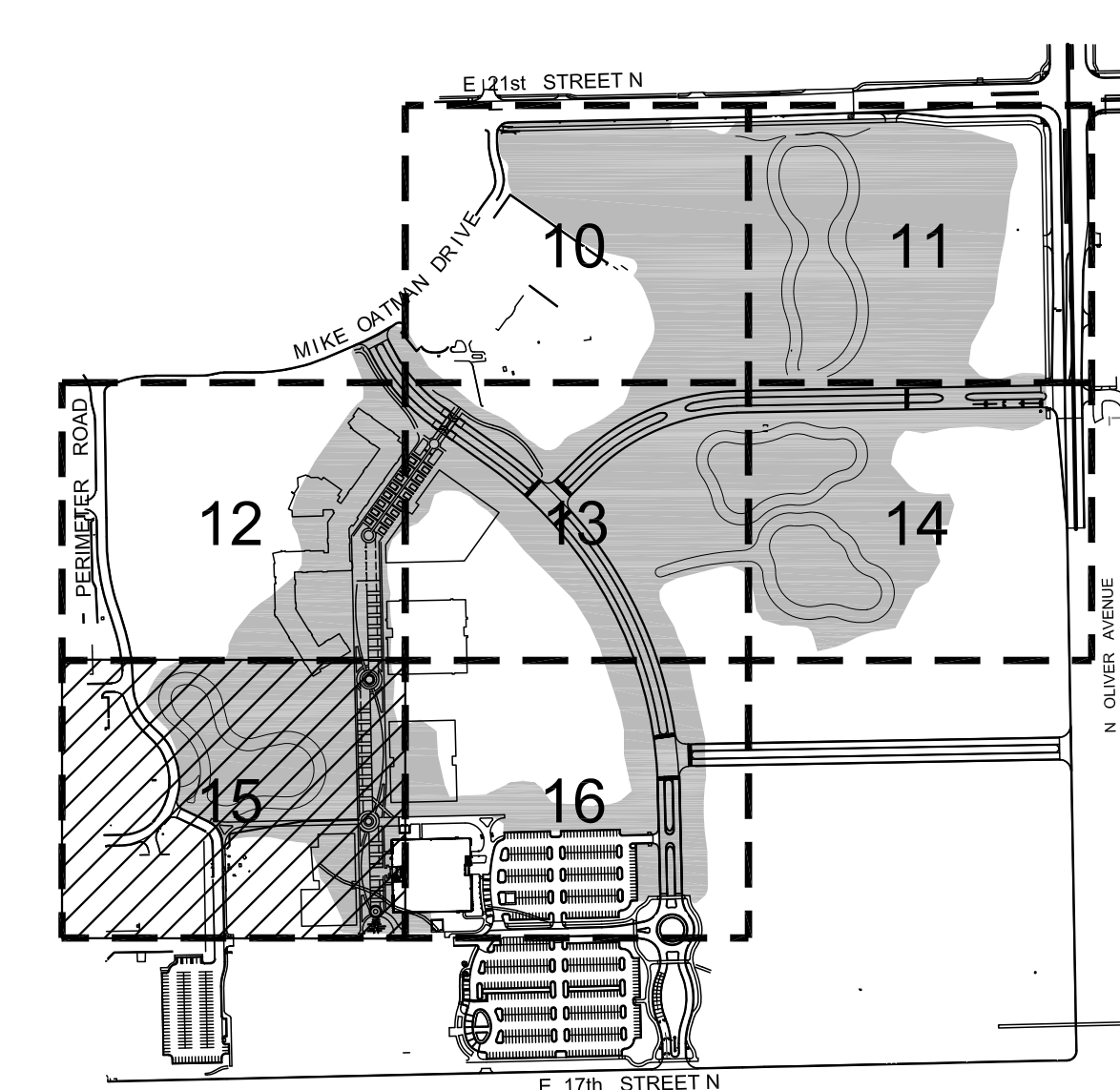
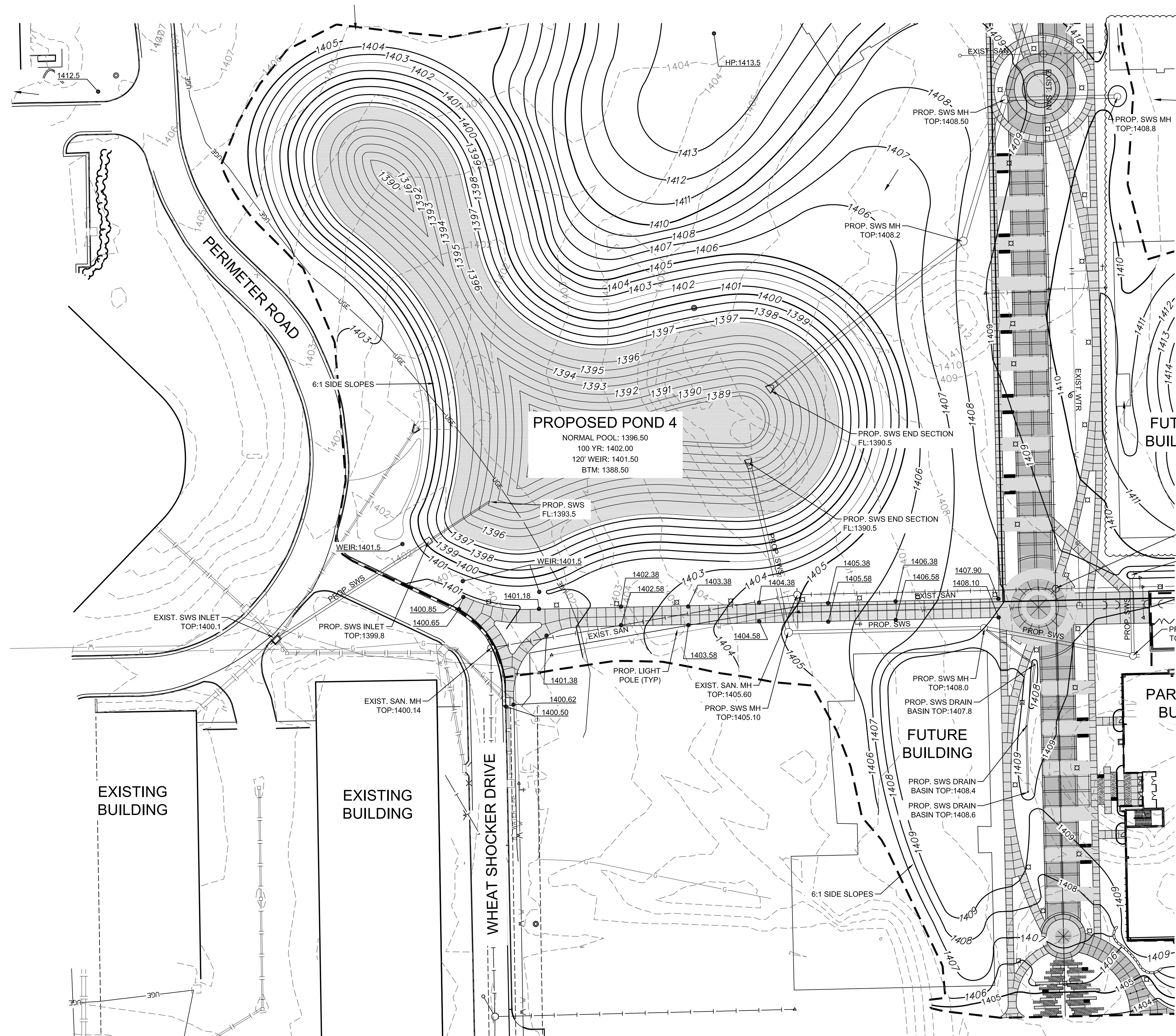
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MASS GRADING 5  
 A-012817(a)  
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 ORIGINAL CONTRACT DOCUMENTS

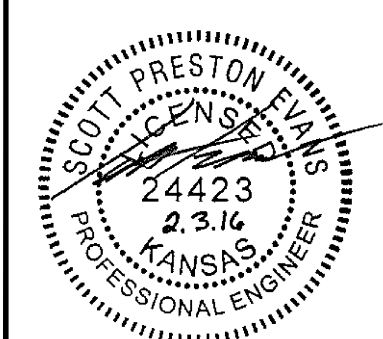
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**LOCATION MAP**

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ADDENDUM #	REVISION	DATE

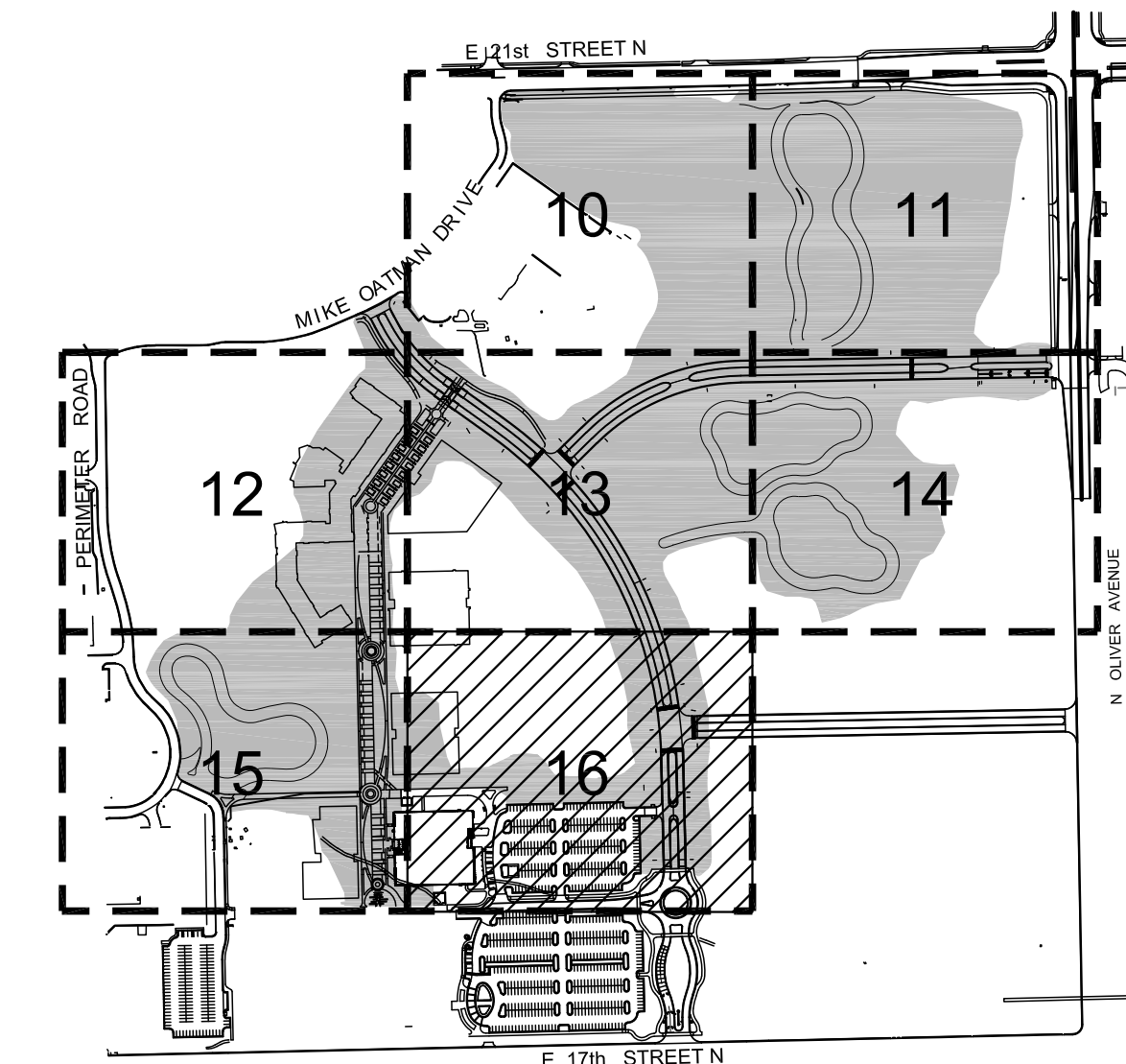
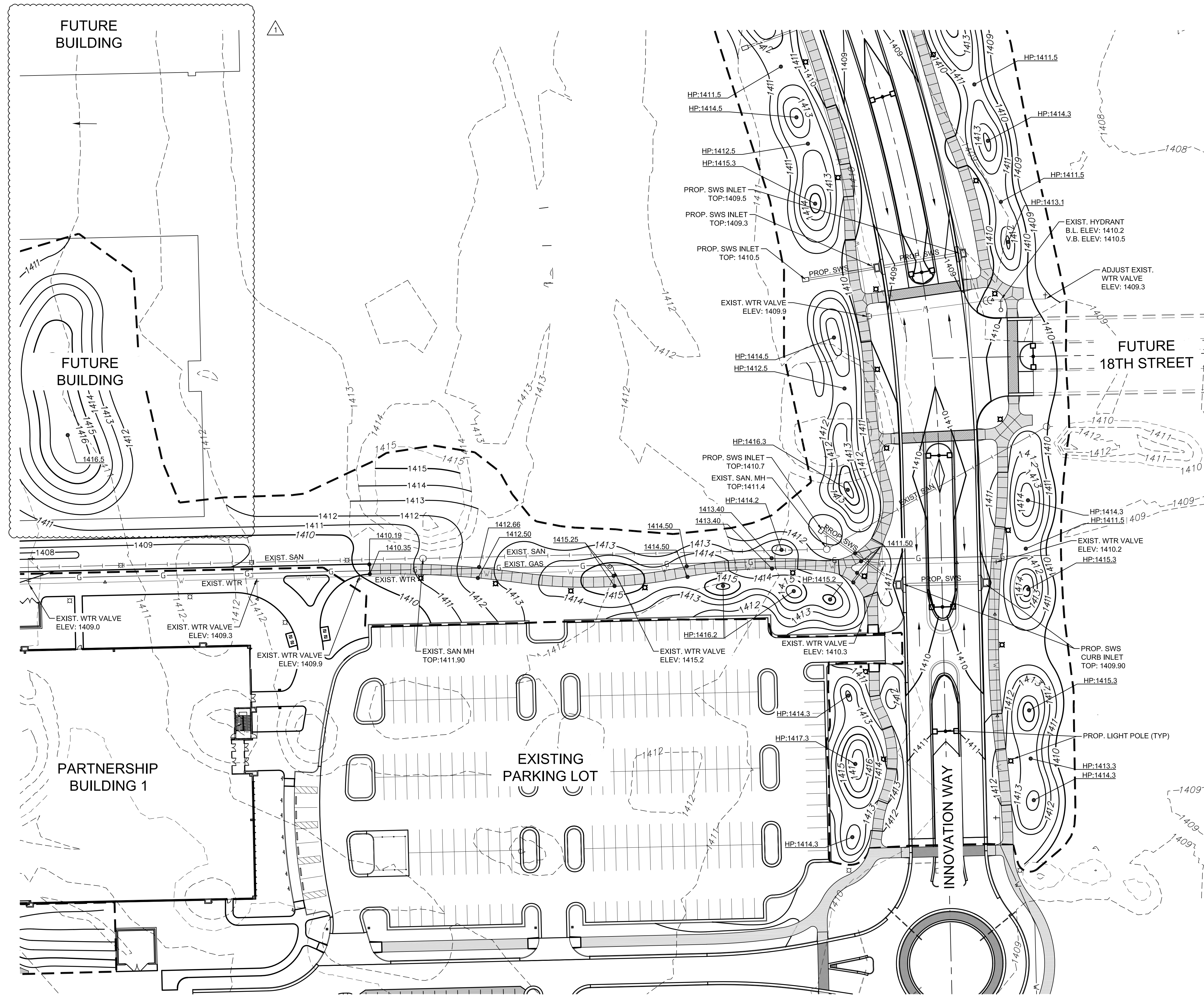
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 DRAWN BY: \_\_\_\_\_ CHECKED BY: \_\_\_\_\_  
 DATE: 11/11/2016

MASS GRADING 6  
 A-012817(a)  
 15 OF 165  
 ORIGINAL CONTRACT DOCUMENTS

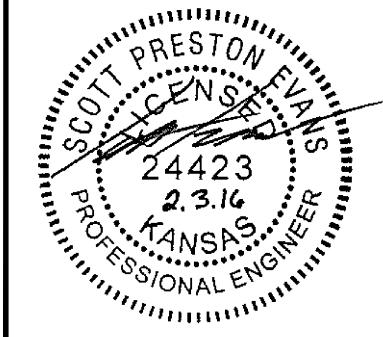
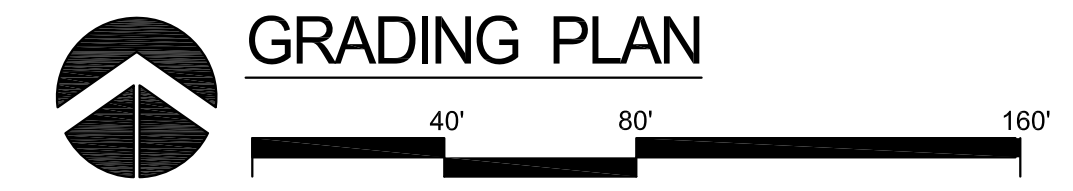
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LOCATION MAP

**LEGEND**

- — — — — EXISTING SANITARY SEWER
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- UGE — — — — EXISTING UNDERGROUND ELECTRIC
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- - - - - EXISTING GRADES
- - - - - LIMITS OF GRADING
- — — — — SLOPE ARROW
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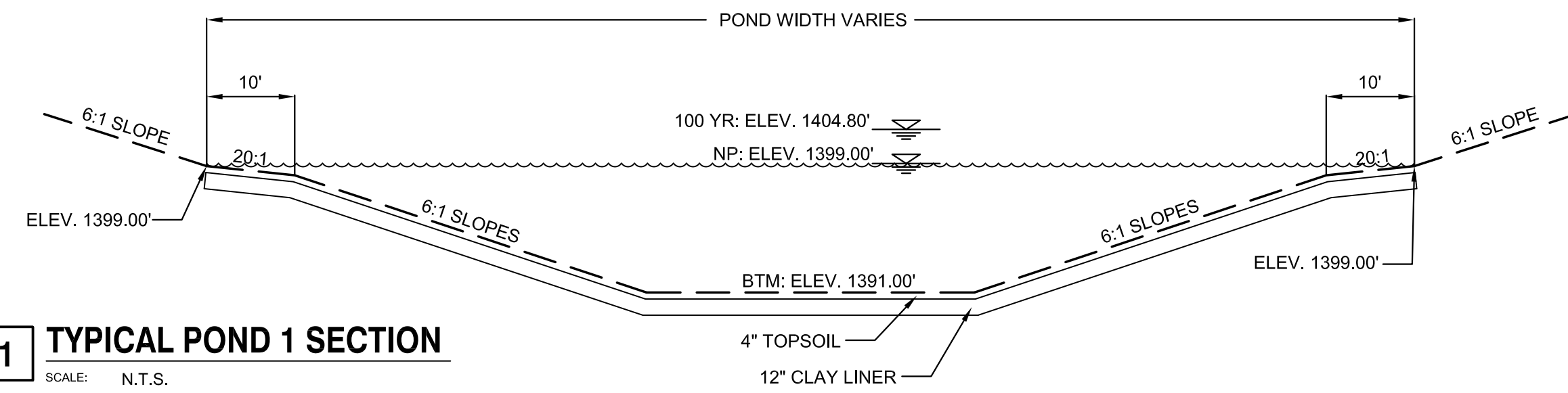
ADDENDUM #	REVISION	DATE

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 WICHITA, KANSAS 67260-0047  
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 Design, Construction & Compliance  
 800 SW Jackson, Suite 700  
 Topeka, Kansas 66612-1216  
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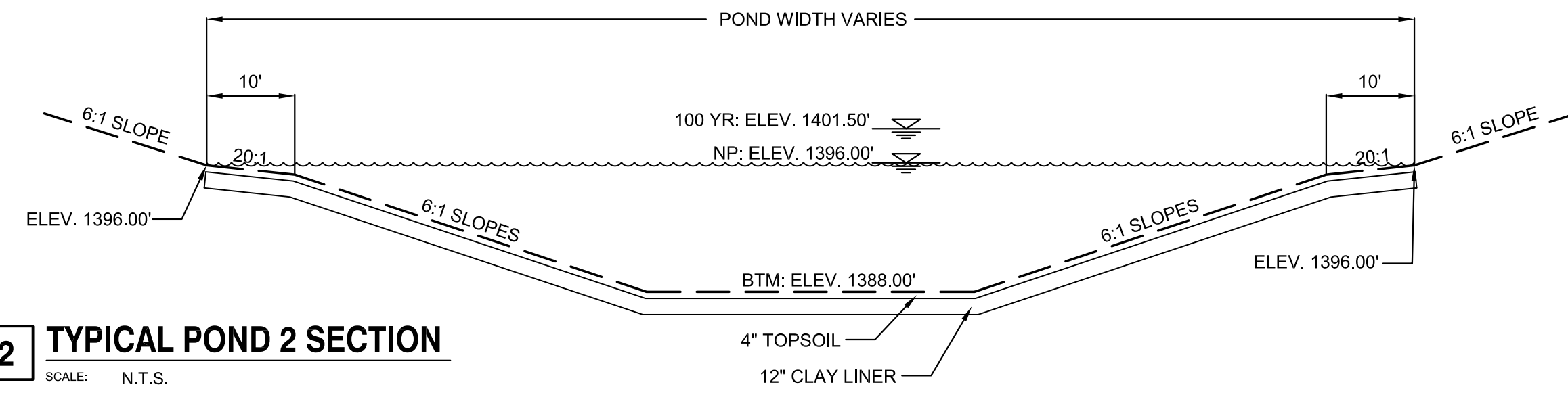
WICHITA STATE UNIVERSITY  
**INNOVATION CAMPUS INFRASTRUCTURE PHASE 2**  
 1845 FAIRMOUNT ST.  
 WICHITA, KANSAS 67260-0023  
 DATE: 11/12/16  
 DRAWN BY: \_\_\_\_\_  
 CHECKED BY: \_\_\_\_\_

MASS GRADING 7  
 A-012817(a)  
 16 OF 165  
 ORIGINAL CONTRACT DOCUMENTS



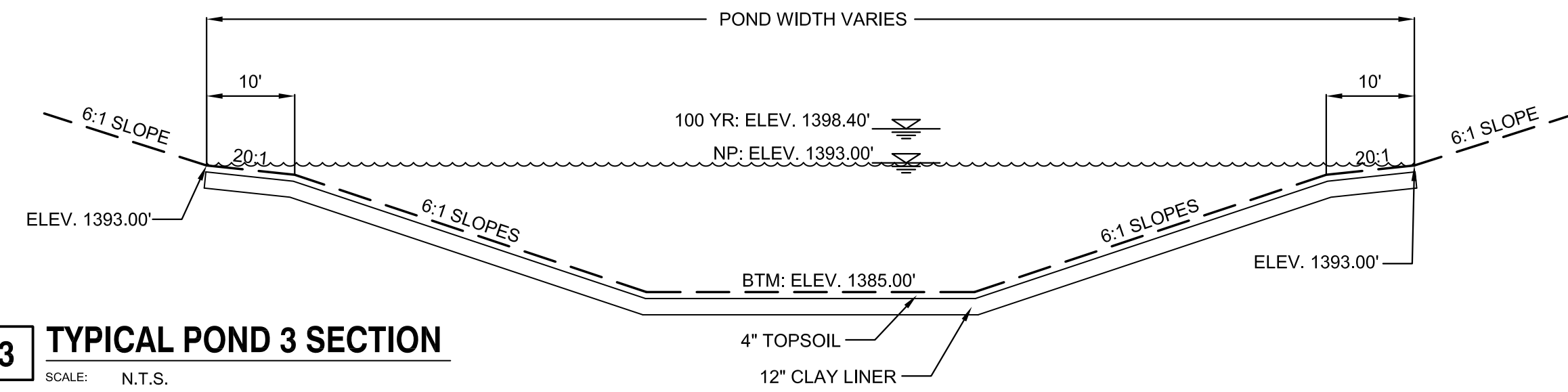
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SCALE: N.T.S.



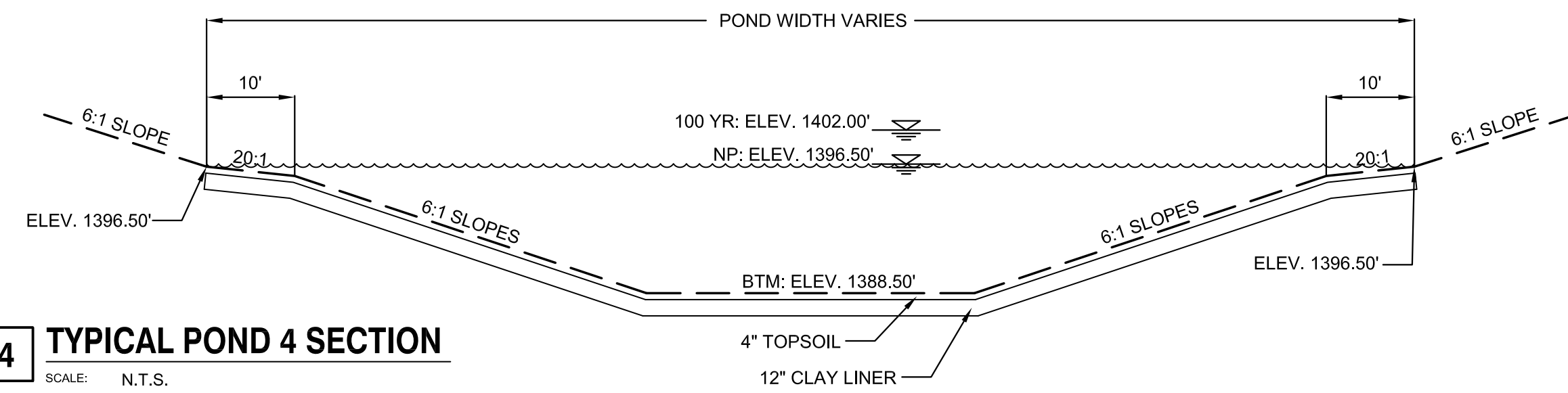
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SCALE: N.T.S.



**3 TYPICAL POND 3 SECTION**

SCALE: N.T.S.



**4 TYPICAL POND 4 SECTION**

SCALE: N.T.S.

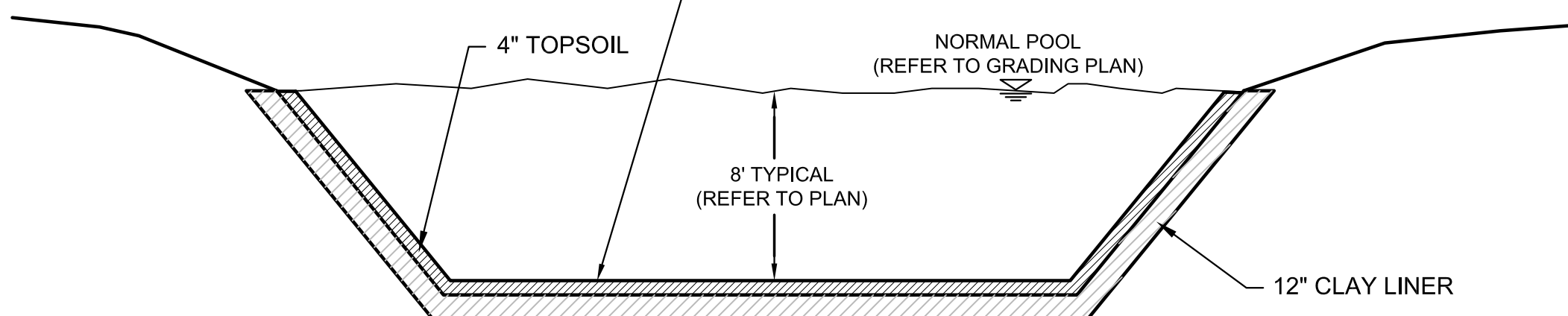
**NOTE:**

PERMEABILITY TESTS OF THE LINER MATERIAL SHALL BE PERFORMED BY A GEOTECHNICAL SOILS ENGINEER AT 2 RANDOM LOCATIONS PER POND AS DETERMINED BY THE PROJECT INSPECTOR AND AT THE CONTRACTOR'S EXPENSE. THE CLAY LINER MATERIAL SHALL MEET OR EXCEED A PERMEABILITY RATING VALUE OF  $1.0 \times 10^{-6}$  CM/SEC.

SILT DREDGED FROM EXISTING POND MAY NOT BE USED FOR COMPACTED FILL.

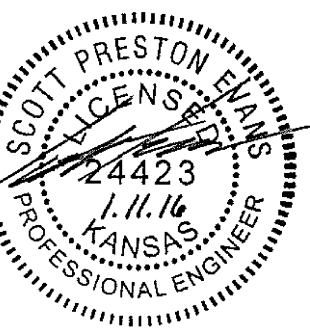
TOPSOIL SHALL BE DISTRIBUTED ON ALL AREAS RECEIVING CLAY LINER.

1. OVER EXCAVATE 16" OF SOIL FOR POND AREAS
2. CONSTRUCT 12" CLAY LINER IN (2) 6" LIFTS
3. HIGH PLASTICITY CLAY (PI>25 OR BEST AVAILABLE ON-SITE)
4. TOP 6" CLAY LINER LIFT TO BE BLENDED WITH WYOMING BENTONITE AT A RATE OF 20 LBS/SY
4. COMPACT TO 95% STD. DENSITY (ASTM D-698)
5. CONTROL MOISTURE WITHIN ±3% OF OPTIMUM
6. CONSTRUCT TOPSOIL LAYER



**5 TYPICAL CLAY LINER FOR POND SEALING**

SCALE: N.T.S.



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**INNOVATION CAMPUS INFRASTRUCTURE PHASE 2**  
1845 FAIRMOUNT ST.  
WICHITA, KANSAS 67260-0023  
DRAWN BY: ABC  
CHECKED BY: ABC  
DATE: 1/11/2016

POND DETAILS

A-012817(a)

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ORIGINAL CONTRACT DOCUMENTS

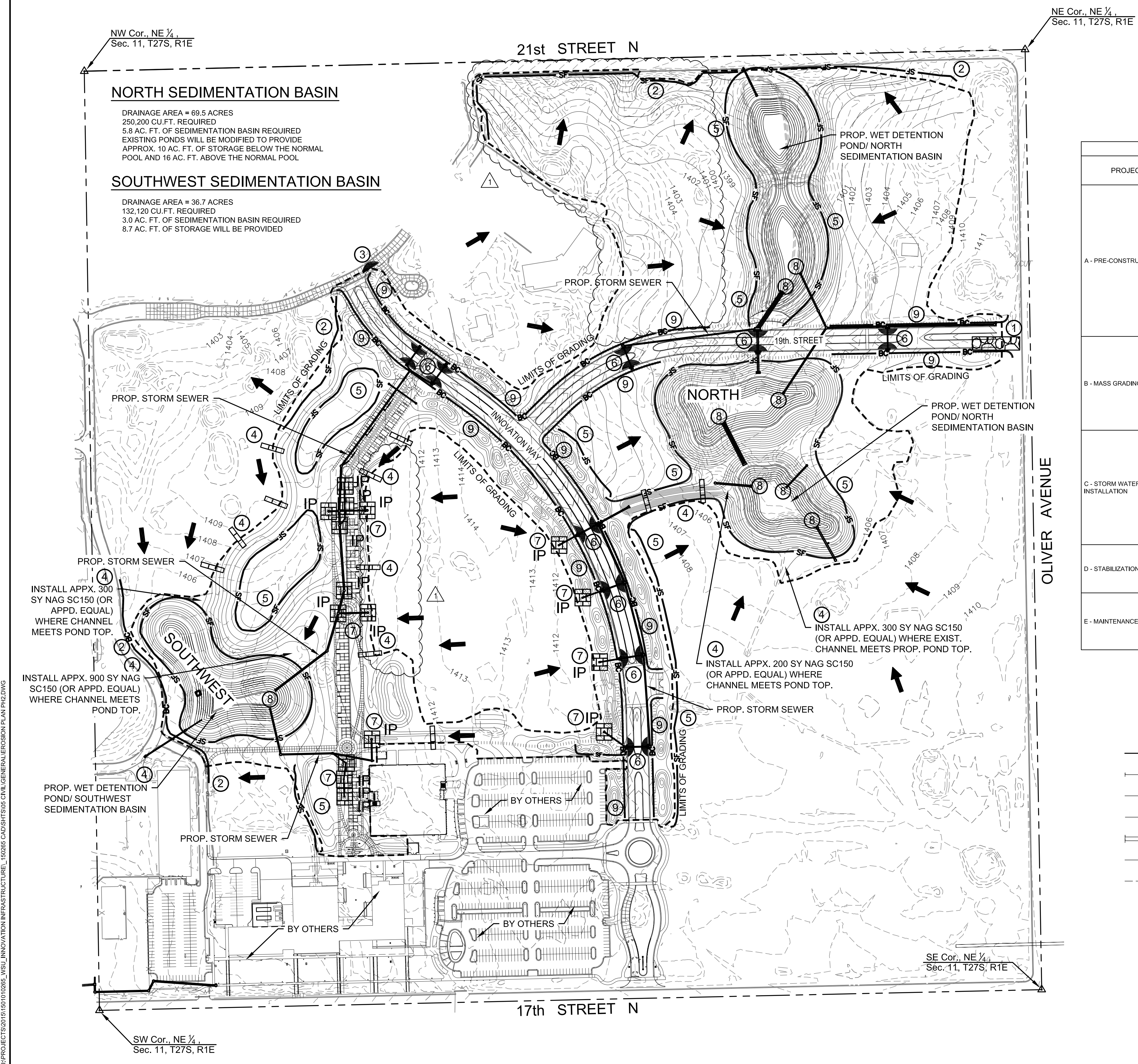
ADDENDUM 4	REVISION	DATE

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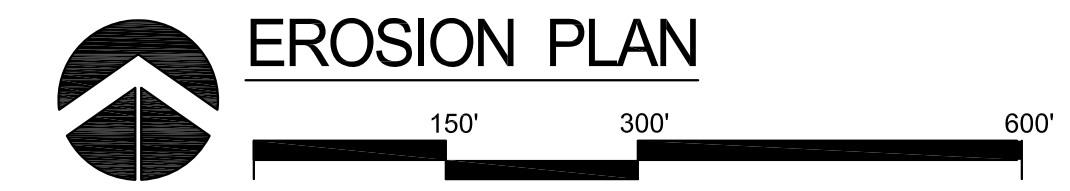
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PHASE 2  
1845 FAIRMOUNT ST.  
WICHITA, KANSAS 67260-0023  
DRAWN BY: BKS  
CHECKED BY: SPE  
DATE: 11/11/2016

EROSION PLAN  
A-012817(a)  
07 OF 165  
ORIGINAL CONTRACT DOCUMENTS



EROSION AND SEDIMENT CONTROL STAGING CHART				
PROJECT STAGE	BMP PLAN REF NO.	BMP DESCRIPTION	REMOVE AFTER STAGE	ADDITIONAL INFORMATION AS NEEDED FOR CONSTRUCTION
A - PRE-CONSTRUCTION CONTROLS	1	CONSTRUCTION ENTRANCE/WASH DOWN AREA	D	ESTABLISH CONSTRUCTION ENTRANCE (CE) OFF OF OLIVER AVE. CE TO BE INSTALLED PRIOR TO CONSTRUCTION AND SITE DISTURBANCE. CONTRACTOR TO MAINTAIN ENTRANCES THROUGHOUT THE DURATION OF CONSTRUCTION AND MAKE ANY REPAIRS AS NECESSARY.
	1	CONCRETE WASHOUT AREA	D	ESTABLISH CONCRETE WASHOUT AREA NEAR CONSTRUCTION ENTRANCE AND MAINTAIN PER STATE STANDARDS.
	-	STAGING AREA	D	CONTRACTOR TO ENSURE PROPER EROSION CONTROL MEASURES ARE USED TO CONTROL SEDIMENT AND CHEMICAL DISCHARGE FROM STAGING AREAS.
	2	PERIMETER SEDIMENT FENCE / BACK-OF-CURB PROTECTION	D	INSTALL SEDIMENT FENCE ALONG THE PERIMETER OF THE SITE AS INDICATED ON THE PLAN. INSTALL J-HOOKS TO PREVENT AN OVERLOAD OF SEDIMENT. INSPECT SEDIMENT FENCE AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL. ENSURE FENCE IS NOT COMPROMISED. REMOVE SEDIMENT BUILDUP BEHIND THE FENCE AS NECESSARY TO ENSURE PROPER PERFORMANCE OF THE SILT FENCE. MAKE REPAIRS IMMEDIATELY.
B - MASS GRADING	3	CURB INLET PROTECTION	D	INSTALL CURB INLET PROTECTION ON EXISTING MIKE OATMAN DR. CURB INLETS.
	-	MAINTENANCE/GENERAL	-	MAINTAIN PRE-CONSTRUCTION SEDIMENT FENCE. INSTALL A DOUBLE ROW OF SILT FENCE AROUND ANY STOCKPILE AREAS. ADD OR REPAIR SILT FENCE INSTALLED FOR THE INITIAL CONTROLS AS NECESSARY.
	4	TURF REINFORCEMENT MAT / DITCH CHECKS	-	INSTALL DITCH CHECK DAMS ON SWALES IMMEDIATELY AFTER SWALE CONSTRUCTION. ADJUST HEIGHT BEYOND DETAIL HEIGHT TO BE HIGH ENOUGH ACROSS THE SWALE TO PREVENT WATER FROM ERODING AROUND THE SIDE OF THE CHECK DAM. SHORTLY THEREAFTER, INSTALL NORTH AMERICAN GREEN SC150 MAT ON THE SWALES. MAT TO BE INSTALLED AND MAINTAINED PER MANUFACTURER'S SPECIFICATIONS AND SHOULD BE FREE OF TEARS AND GAPS.
C - STORM WATER SEWER / PAVING INSTALLATION	5	SEDIMENT FENCE	D	INSTALL SEDIMENT FENCE AS INDICATED ON THE PLAN.
	-	MAINTENANCE/GENERAL	-	MAINTAIN SEDIMENT FENCE INSTALLED IN THE PRE-CONSTRUCTION AND MASS GRADING PHASES. INSTALL EROSION CONTROL MEASURES TO PREVENT SEDIMENT RUNOFF FROM STOCKPILE AREAS DURING TRENCHING.
	6	CURB INLET PROTECTION	D	INSTALL INLET PROTECTION AFTER INLET INSTALLATION USING GRAVEL CURB INLET SEDIMENT FILTER DETAIL FOR MASS GRADING OPERATIONS.
	7	AREA INLET / GRATE INLET PROTECTION	D	INSTALL INLET PROTECTION AROUND AREA INLETS AND GRATE INLETS PER PLAN DETAILS.
D - STABILIZATION	8	PIPE OUTFALLS	-	INSTALL RIP-RAP AT PIPE OUTFALLS AS INDICATED ON THE PLAN. SEE RIP-RAP OUTFALL DETAILS ON STORM SEWER DETAIL SHEETS.
	9	BACK OF CURB PROTECTION	D	INSTALL BACK-OF-CURB PROTECTION AS INDICATED ON THE PLAN AFTER PAVEMENT/BIKEWALK CONSTRUCTION.
E - MAINTENANCE	-	MAINTENANCE/INSPECTIONS	-	ALL GROUND SHALL BE STABILIZED AND CONSTRUCTION WORK COMPLETE PRIOR TO THE REMOVAL OF EROSION CONTROL MEASURES. CONTRACTOR TO COORDINATE WITH THE STATE, WSU AND PROJECT ENGINEER FOR FINAL INSPECTION. ALL DISTURBED GRASS AREAS SHALL BE SEEDED/SODDED PER LANDSCAPE PLANS. SEE NOTES ON GENERAL NOTES SHEET FOR RESTORATION OF SITE. CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF ALL EROSION CONTROL MEASURES. INSPECTIONS SHALL BE DONE ONCE A WEEK AND AFTER EVERY RAINFALL. CONTRACTOR SHALL BE RESPONSIBLE TO COMPLY WITH ALL REQUIREMENTS OF CITY, STATE, AND FEDERAL LAWS AND TO KEEP DOCUMENTATION OF ALL INSPECTIONS AND REPAIRS IN THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) DOCUMENT.

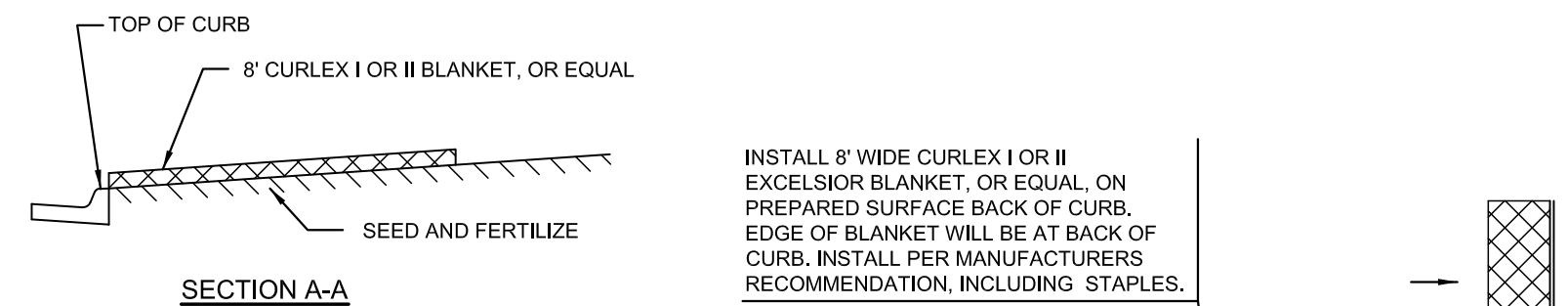
LEGEND	
--- SF ---	SILT FENCE
--- BC ---	BACK OF CURB PROTECTION
--- G ---	EXISTING GAS LINE
--- W ---	EXISTING WATER LINE
--- UGE ---	EXISTING UNDERGROUND ELECTRIC
--- XXXX ---	EXISTING GRADES
--- L ---	LIMITS OF GRADING
IP	AREA INLET PROTECTION
IP	CURB INLET PROTECTION
IP	STRAW BALE DITCH CHECKS
IP	STABILIZED CONSTRUCTION ENTRANCE



J:\PROJECTS\2015\1501010285\_WSU\_INNOVATION\_INFRASTRUCTURE\150285 CAD\SHS\T505 CIVIL\GENERAL\EROSION PLAN PH2.DWG

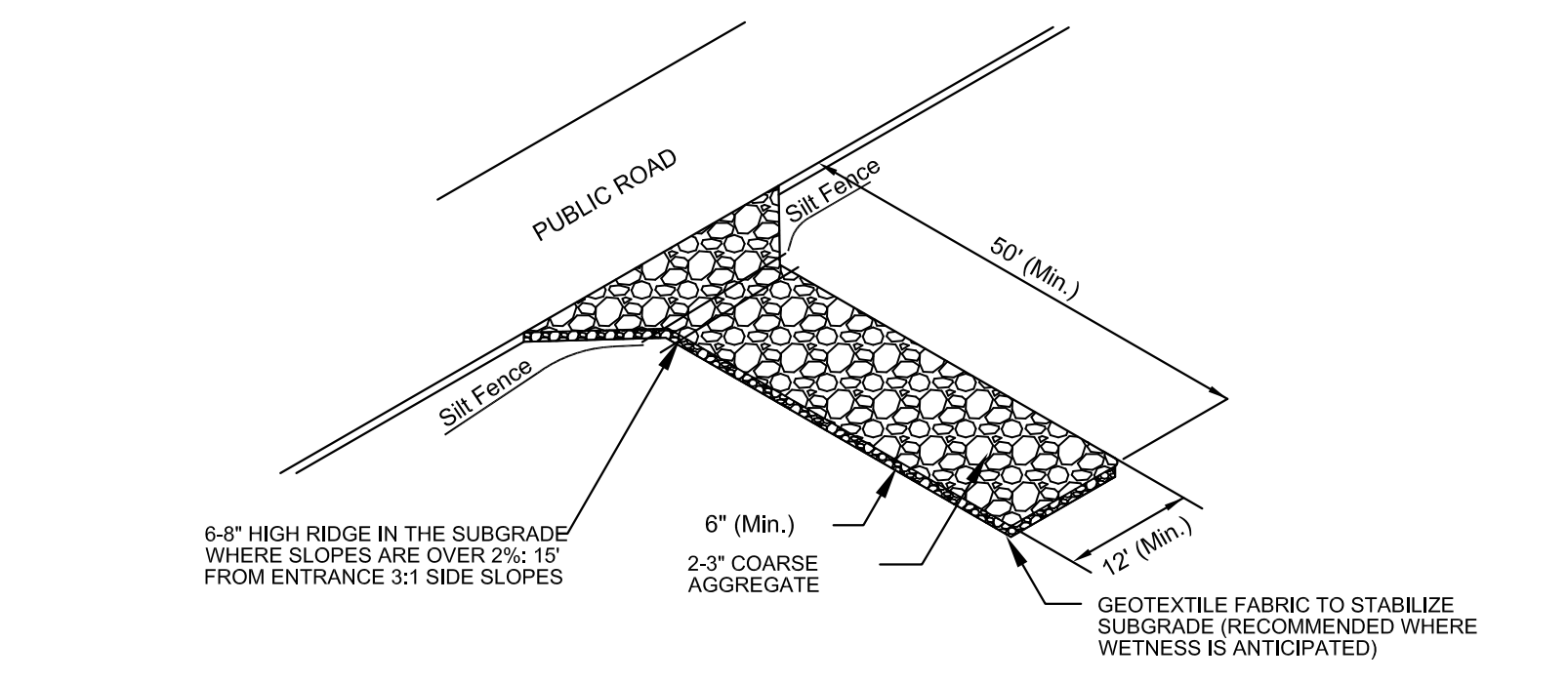
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J:\PROJECTS\2015\1501010265\_WSL\_INNOVATION INFRASTRUCTURE\150205 CAD\SHS\1505 CIVIL\GRD\1505R\_G001.DWG



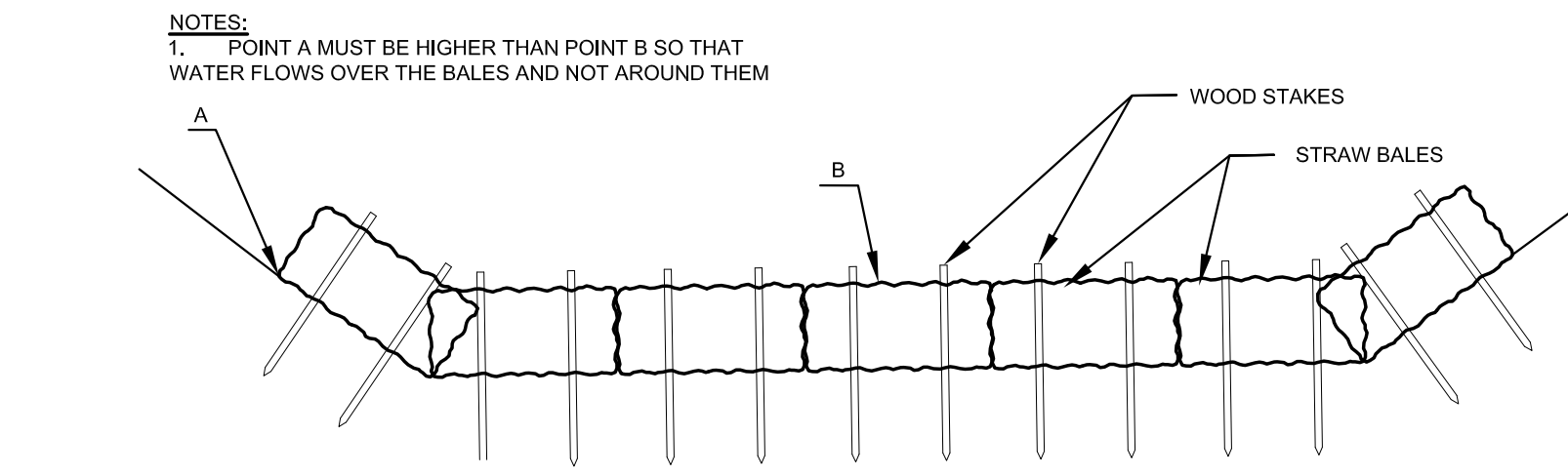
- SECTION A-A**
- GENERAL NOTES**
- EXCELSIOR MAT TO BE INSTALLED WHEN SOD IS NOT SPECIFIED ON PROJECT.
  - EXCELSIOR BLANKET TO BE INSTALLED OVER SEED AND FERTILIZER
  - AFTER INSTALLATION OF EXCELSIOR BLANKET, AT LOCATIONS WHERE CONCENTRATED FLOW CARRIES SEDIMENT OVER THE CURB AND INTO THE GUTTER, SUPPLEMENTAL EROSION CONTROL DEVICES WILL BE INSTALLED BY THE CONTRACTOR AS NEEDED, TO FIX THE PROBLEM.

**1 BACK OF CURB PROTECTION DETAIL**  
SCALE: N.T.S.



- NOTES:**
- AVOID LOCATING ON STEEP SLOPES OR AT CURVES ON PUBLIC ROADS. IF POSSIBLE, LOCATE WHERE PERMANENT ROADS WILL EVENTUALLY BE CONSTRUCTED.
  - REMOVE ALL VEGETATION AND OTHER UNSUITABLE MATERIAL FROM THE SUBGRADE AREA. GRADE AND CROWN FOR POSITIVE DRAINAGE.
  - IF SLOPE TOWARDS THE ROAD EXCEEDS 2%, CONSTRUCT A 6-8" HIGH RIDGE WITH 3:1 SIDE SLOPES ACROSS THE APPROACH APPROXIMATELY 15' FROM THE ENTRANCE TO DIVERT RUNOFF AWAY FROM PUBLIC ROAD.
  - AGGREGATE SIZE SHALL BE 2-3" WASH STONE.
  - PAD DESIGN THICKNESS 6" MIN. WIDTH 12" MIN. OR FULL WIDTH OF ROADWAY, WHICHEVER IS GREATER, LENGTH 50' MIN.
  - SUPPLY WATER TO WASH WHEELS IF NECESSARY
  - WHEN PLACED ON A RURAL CROSS SECTION, A DRAINAGE PIPE MUST BE ADDED UNDER DRIVE. PIPE TO BE SIZED PER STORM CRITERIA.

**2 TEMPORARY GRAVEL CONSTRUCTION ENTRY**  
SCALE: N.T.S.



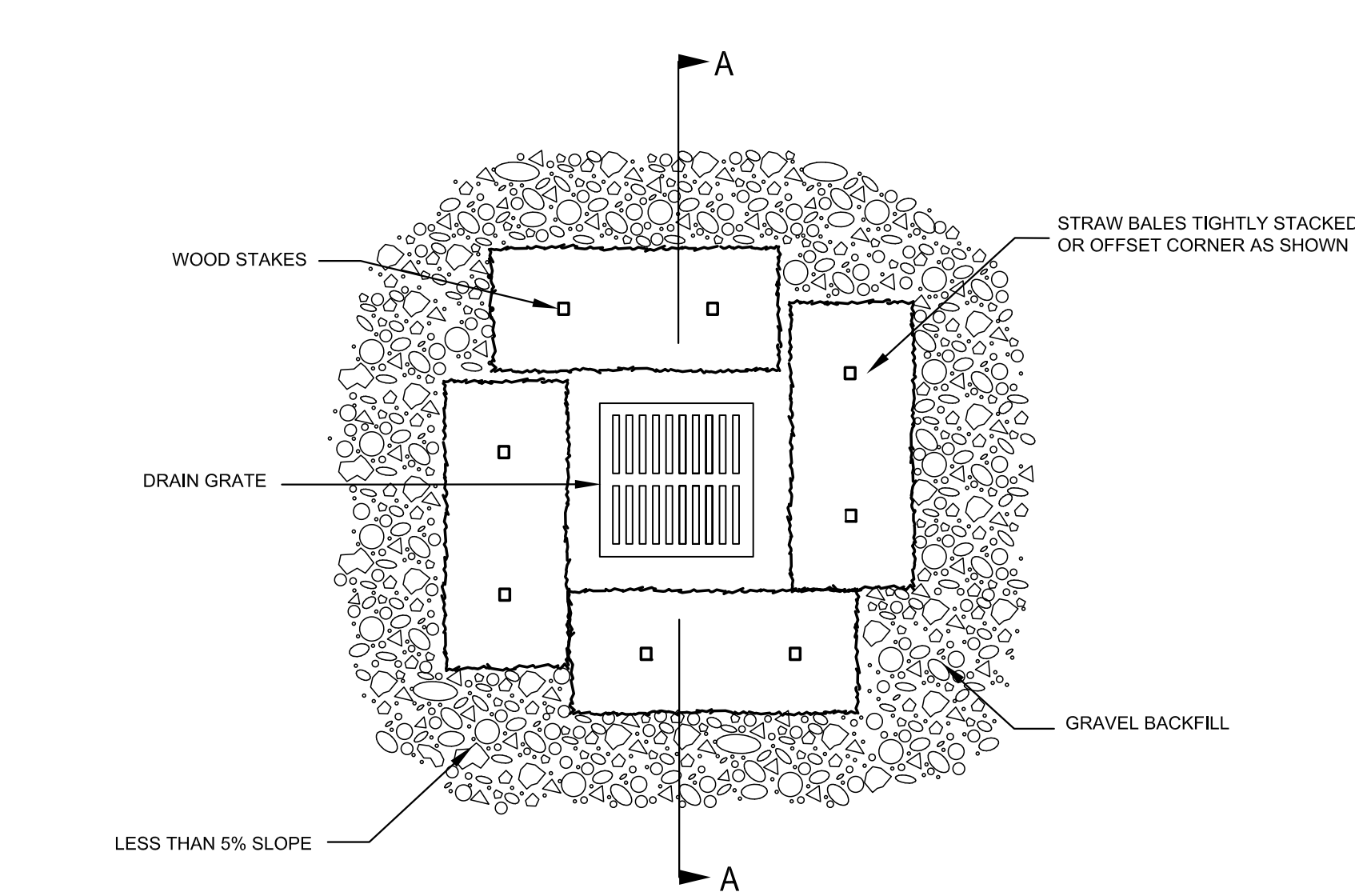
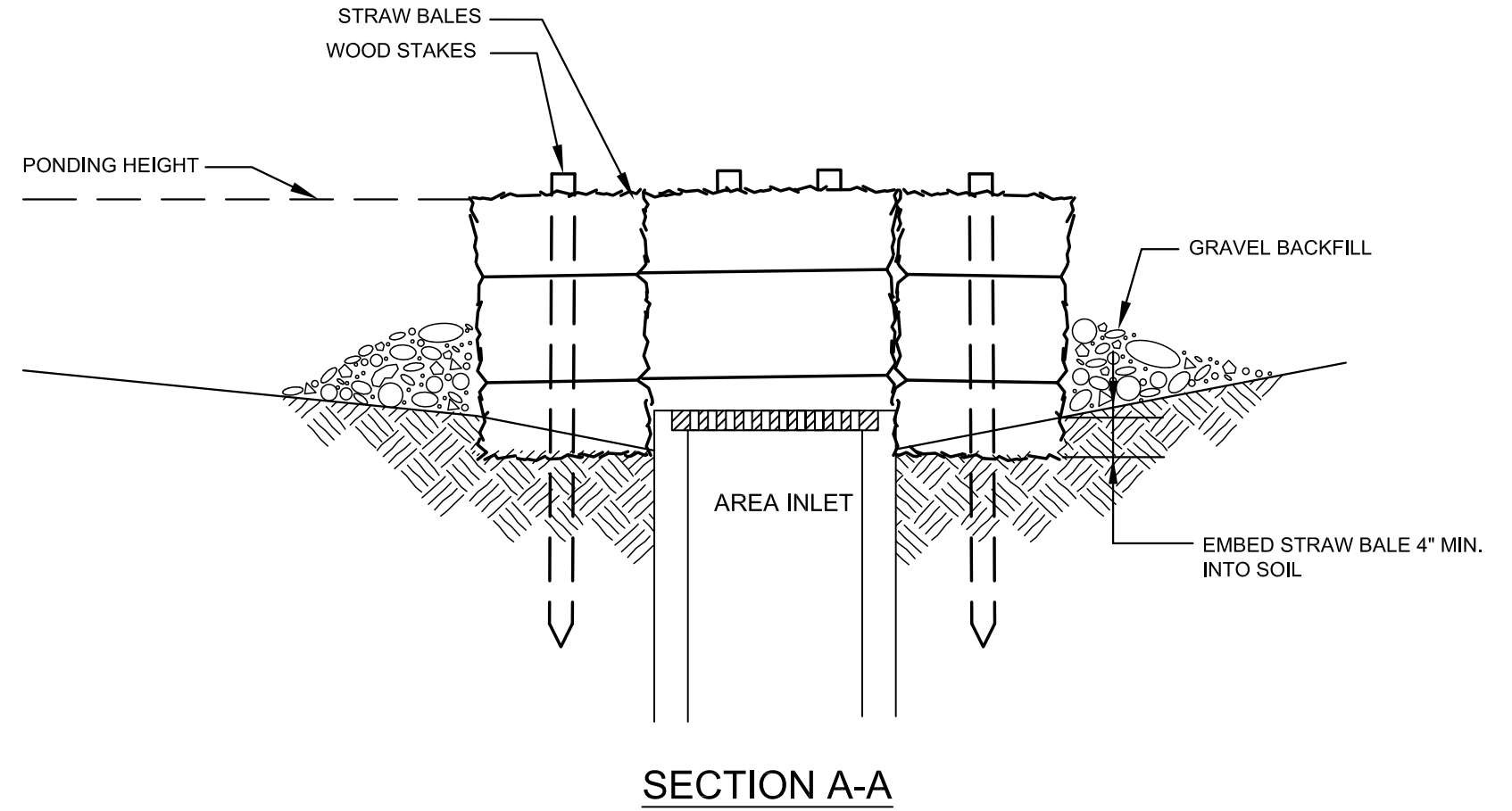
**MATERIAL SPECIFICATION**  
BALE AREA INLET BARRIERS SHOULD BE CONSTRUCTED OF WHEAT STRAW, OAT STRAW, PRAIRIE HAY, OR BONEGRASS HAY THAT IS FREE OF WEEDS DECLARED NOXIOUS BY THE KANSAS STATE BOARD OF AGRICULTURE. THE STAKES USED TO ANCHOR THE BALES SHOULD BE A HARDWOOD MATERIAL WITH THE FOLLOWING MINIMUM DIMENSIONS: 2" SQUARE (NOMINAL) BY 4' LONG. OPTIONAL: THE DOWNSTREAM SCOUR APRON SHOULD BE CONSTRUCTED OF A DOUBLE-NETTED STRAW EROSION CONTROL BLANKET AT LEAST 6' WIDE OPTIONAL: THE METAL LANDSCAPE STAPLES USED TO ANCHOR THE EROSION CONTROL BLANKET SHOULD BE AT LEAST 8" LONG

**PROPER INSTALLATION METHOD**  
EXCAVATE A TRENCH PERPENDICULAR TO THE DITCH FLOWLINE THAT IS 4" DEEP AND A BALE'S WIDTH WIDE. EXTEND THE TRENCH IN A STRAIGHT LINE ALONG THE ENTIRE LENGTH OF THE PROPOSED DITCH CHECK. PLACE THE SOIL ON THE UPSTREAM SIDE OF THE TRENCH - IT WILL BE USED LATER. OPTIONAL: ON THE DOWNSTREAM SIDE OF THE TRENCH, ROLL OUT A LENGTH OF EROSION-CONTROL BLANKET (SCOUR APRON) EQUAL TO THE LENGTH OF THE TRENCH. PLACE THE UPSTREAM EDGE OF THE EROSION-CONTROL BLANKET ALONG THE BOTTOM UPSTREAM EDGE OF THE TRENCH. THE EROSION CONTROL BLANKET SHOULD BE ANCHORED IN THE TRENCH WITH ONE ROW OF 8" LANDSCAPE STAPLES PLACED ON 18" CENTERS. THE REMAINDER OF THE EROSION-CONTROL BLANKET (THE PORTION THAT IS NOT LYING IN THE TRENCH) WILL SERVE AS THE DOWNSTREAM SCOUR APRON. THIS SECTION OF THE BLANKET SHOULD BE ANCHORED TO THE GROUND WITH 8" LANDSCAPE STAPLES PLACED AROUND THE PERIMETER OF THE BLANKET ON 18" CENTERS. THE REMAINDER OF THE BLANKET SHOULD BE ANCHORED USING TWO EVENLY SPACED ROWS OF 8" LANDSCAPE STAPLE ON 18" CENTERS PLACED PERPENDICULAR TO THE FLOWLINE OF THE DITCH. PLACE THE BALES IN THE TRENCH MAKING SURE THAT THEY ARE BUTTED TIGHTLY. TWO STAKES SHOULD BE DRIVEN THROUGH EACH BALE ALONG THE CENTERLINE OF THE DITCH CHECK APPROXIMATELY 6" TO 8" IN FROM THE BALE ENDS. STAKES SHOULD BE DRIVEN AT LEAST 12" INTO THE GROUND. ONCE ALL THE BALES HAVE BEEN INSTALLED AND ANCHORED, PLACE THE EXCAVATED SOIL AGAINST THE UPSTREAM SIDE OF THE CHECK AND COMPACT IT. THE COMPACTED SOIL SHOULD BE NO MORE THAN 3" TO 4" DEEP AND EXTEND UPSTREAM NO MORE THAN 24"

**DITCH CHECK SPACING**

DITCH GRADE (%)	CHECK SPACING (feet)
0.5	200
1.0	200
2.0	100
3.0	65
4.0	50
5.0	40
6.0	30

**3 STRAW BALE DITCH CHECKS**  
SCALE: N.T.S.



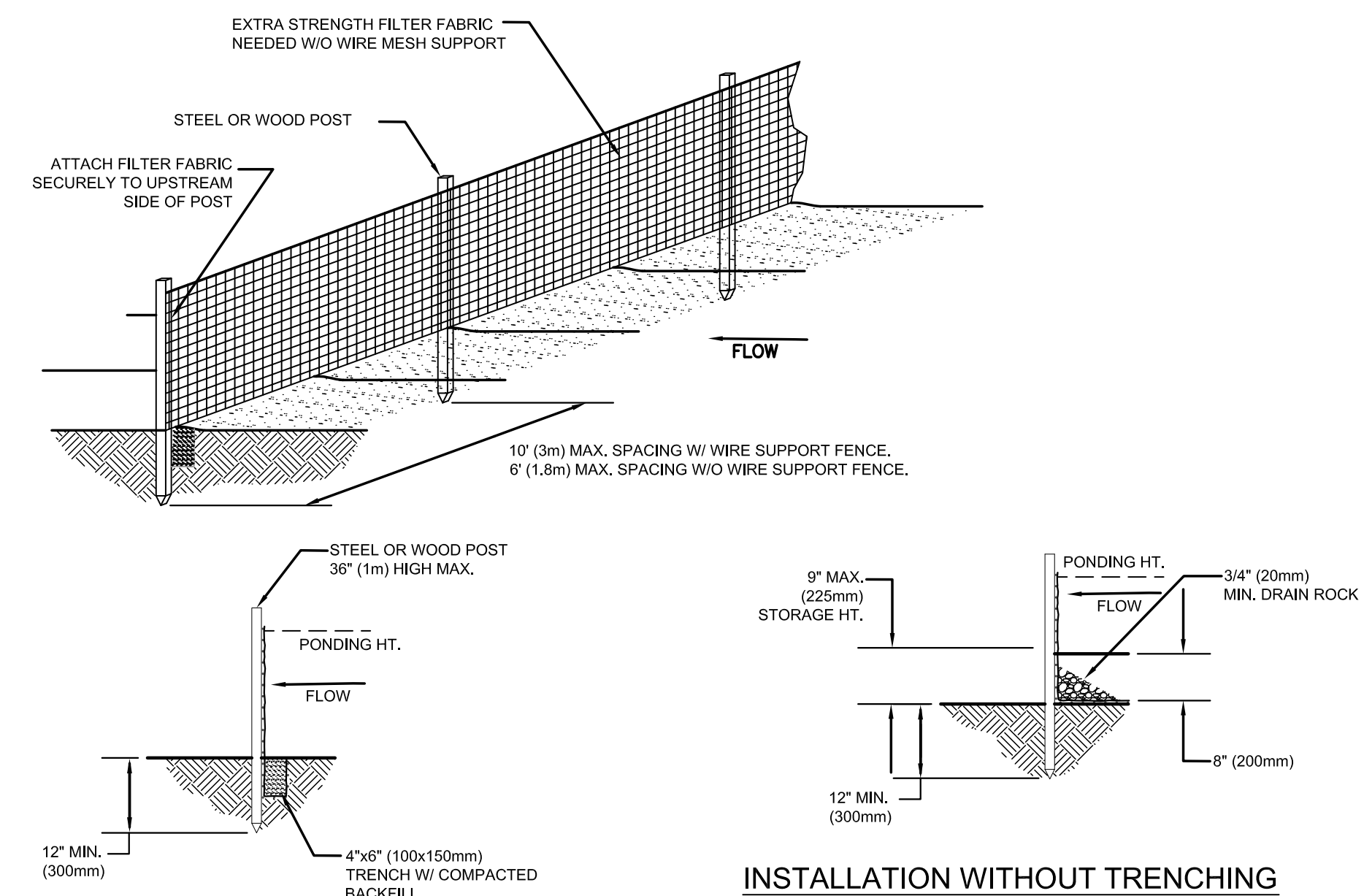
**4 STRAW BALE BARRIERS FOR AREA INLETS**  
SCALE: N.T.S.

**MATERIAL SPECIFICATION**  
BALE AREA INLET BARRIERS SHOULD BE CONSTRUCTED OF WHEAT STRAW, OAT STRAW, PRAIRIE HAY, OR BONEGRASS HAY THAT IS FREE OF WEEDS DECLARED NOXIOUS BY THE KANSAS STATE BOARD OF AGRICULTURE. THE STAKES USED TO ANCHOR THE BALES SHOULD BE A HARDWOOD MATERIAL WITH THE FOLLOWING MINIMUM DIMENSIONS: 2" SQUARE (NOMINAL) BY 4' LONG.

**PROPER INSTALLATION METHOD**  
EXCAVATE A TRENCH PERPENDICULAR TO THE PERIMETER OF THE AREA INLET THAT IS AT LEAST 4" DEEP BY A BALE'S WIDTH WIDE. PLACE THE BALES IN THE TRENCH MAKING SURE THAT THEY ARE BUTTED TIGHTLY. SOME BALES MAY NEED TO BE SHORTENED TO FIT INTO THE TRENCH AROUND THE AREA INLET. TWO STAKES SHOULD BE DRIVEN THROUGH EACH BALE, APPROXIMATELY 6" TO 8" FROM THE BALE ENDS. STAKES SHOULD BE DRIVEN AT LEAST 12" INTO THE GROUND. ONCE ALL THE BALES HAVE BEEN INSTALLED AND ANCHORED, PLACE THE EXCAVATED SOIL AGAINST THE RECEIVING SIDE OF THE BARRIER AND COMPACT IT. THE COMPACTED SOIL SHOULD BE NO MORE THAN 3" TO 4" DEEP. NOTE: WHEN A BALE AREA INLET BARRIER IS PLACED IN A SHALLOW MEDIAN DITCH, MAKE SURE THAT THEY TOP OF THE BARRIER IS NOT HIGHER THAN THE PAVED ROAD. IN THIS CONFIGURATION, WATER MAY SPREAD ONTO THE ROADWAY CAUSING HAZARDOUS CONDITIONS.

**LIST OF COMMON PLACEMENT INSTALLATION MISTAKES TO AVOID**  
BALES SHOULD BE PLACED DIRECTLY AGAINST THE PERIMETER OF THE AREA INLET. THIS ALLOWS OVERTOPPING WATER TO FLOW DIRECTLY INTO THE INLET INSTEAD OF ONTO NEARBY SOIL CAUSING SCOUR. BALE AREA INLET BARRIERS MUST BE DUG INTO THE GROUND. BALES AT GROUND LEVEL DO NOT WORK BECAUSE THEY ALLOW WATER TO FLOW UNDER THE BARRIER.

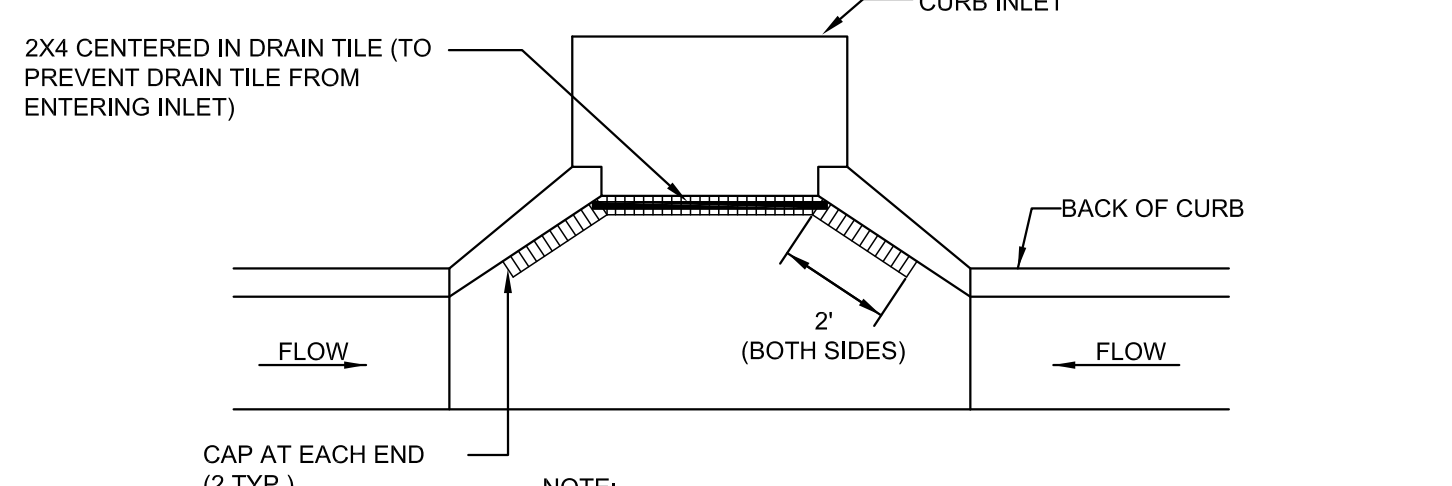
**INSPECTION AND MAINTENANCE**  
BALE AREA INLET BARRIERS SHOULD BE INSPECTED EVERY 7 DAYS AND WITHIN 24 HOURS OF A RAINFALL 1/2" OR MORE. THE FOLLOWING IS A LIST OF QUESTIONS THAT SHOULD BE ADDRESSED.  
DOES WATER FLOW UNDER THE AREA INLET BARRIER?  
ARE ANY BALES DISLODGED?  
ARE BALES DECOMPOSING DUE TO AGE AND/OR WATER DAMAGE?  
DOES SEDIMENT NEED TO BE REMOVED FROM BEHIND THE AREA INLET BARRIER?



**TRENCH DETAIL**  
**INSTALLATION WITHOUT TRENCHING**

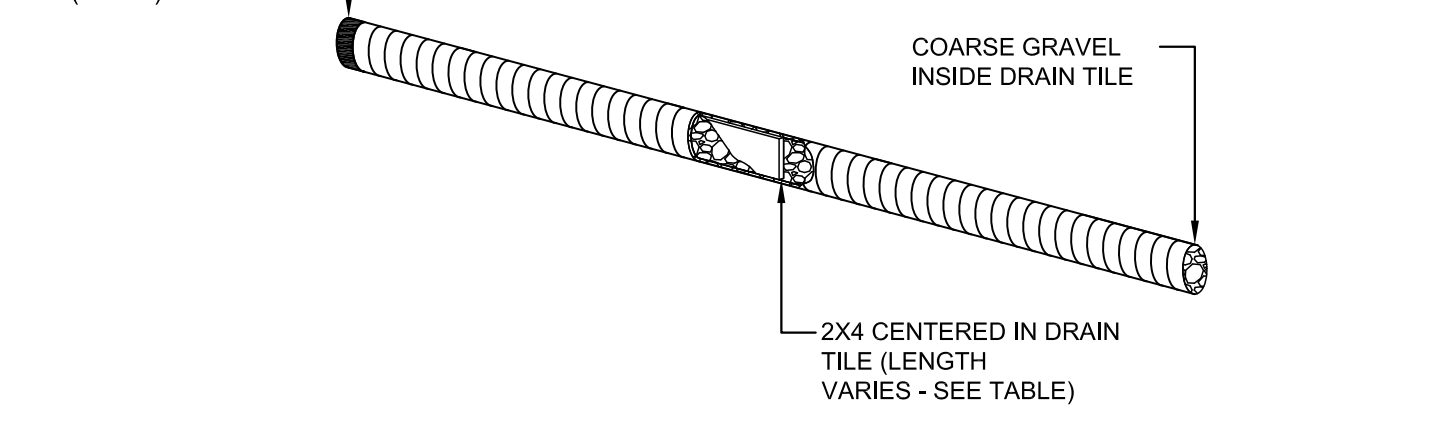
- NOTES:**
- SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.
  - INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY. 9" (225mm) MAXIMUM RECOMMENDED STORAGE HEIGHT.
  - REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.

**5 CURB INLET PROTECTION**  
SCALE: N.T.S.



NOTE: PLACE 4" PERFORATED PVC PIPE, FILLED WITH 1/2" DIA. GRAVEL, IN FRONT OF CURB INLET AS SHOWN.

2X4 LENGTH	INLET TYPE	INLET OPENING
5'-6"	1-A	5'-0"
10'-6"	1-A	10'-0"
15'-6"	1-A	15'-0"



REVISION	DATE

DIVISION OF ADMINISTRATION & FINANCE  
FACILITIES PLANNING  
1845 FAIRMOUNT ST.  
WICHITA, KANSAS 67260-0047  
Phone 316-978-3030

Department of Administration  
Office of Facilities & Property Management  
Design, Construction & Compliance  
800 SW Jackson, Suite 700  
Topeka, Kansas 66612-1216  
Phone 785-296-8899

WICHITA STATE UNIVERSITY  
INNOVATION CAMPUS INFRASTRUCTURE  
PHASE 2

1845 FAIRMOUNT ST.  
WICHITA, KANSAS 67260-0023  
DRAWN BY: ABC  
CHECKED BY: ABC  
DATE: 11/11/2016

EROSION CONTROL DETAILS  
A-012817(a)  
08 OF 165  
ORIGINAL CONTRACT DOCUMENTS