

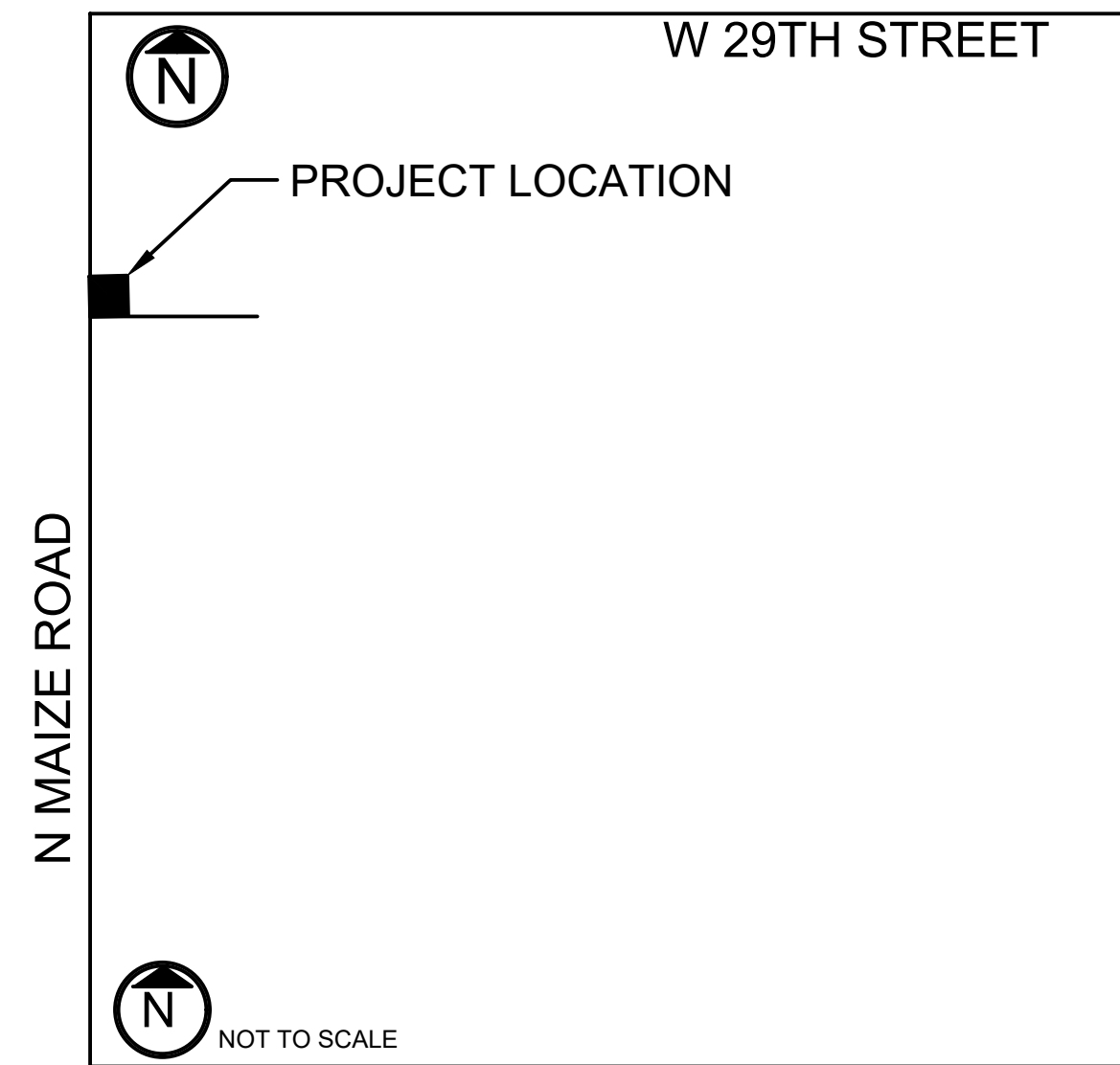
# WATER DISTRIBUTION SYSTEM TO SERVE DUTCH BROS PPW 29TH AND MAIZE RD. WICHITA, KS 12/1/2021

## GENERAL NOTES

- THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE SAFETY REGULATIONS. ALL CONSTRUCTION SHALL BE COMPLETED FOLLOWING CURRENT CITY STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS CONTRACTOR WILL BE REQUIRED TO PROVIDE NOTICE TO UTILITY COMPANIES A MINIMUM OF SEVENTY-TWO HOURS PRIOR TO ANY EXCAVATION. 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 1-800-694-8989  
CITY OF WICHITA WATER & SEWER 1-316-219-8921  
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  
EVERGY 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 THE CONTRACTOR OR UNLESS THE PLANS SPECIFICALLY IDENTIFY A UTILITY TO BE ADJUSTED BY ITS OWNER DURING CONSTRUCTION. EXISTING UTILITIES AND THEIR LOCATIONS, AS SHOWN ON THE PLANS, 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 WILL REQUIRE A KANSAS STATE BOARD OF AGRICULTURE PERMIT. ANY MATERIAL DUMPED IN WATERS OF THE UNITED STATES OF WETLANDS IS SUBJECT TO US CORPS OF ENGINEERS PERMITTING REGULATIONS. ANY MATERIAL BURIED OR STOCK PILED BEYOND APPROVED CONSTRUCTION LIMITS WILL REQUIRE ADDITIONAL ARCHAEOLOGICAL INVESTIGATIONS UNLESS BURIED IN A PREVIOUSLY APPROVED BORROW LOCATION.
- 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 THIS CONSTRUCTION OPERATIONS SUCH IRONS SHALL BE RE-ESTABLISHED BY A LICENSED LAND SURVEYOR IN ACCORDANCE WITH STATE LAWS.
- THE ENGINEERING DIVISION SHALL FIELD LOCATE WATER VALVES ONE TIME DURING CONSTRUCTION WHEN REQUESTED BY THE CONTRACTOR. IT SHALL BE THE CONTRACTORS 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 FINAL GRADES BY THE CONTRACTOR.
- THE CONTRACTOR SHALL NOTIFY THE INSPECTING ENGINEER AND TOM MASON AT 31-268-4574 WITH THE CITY OF WICHITA WITH THE ANTICIPATED CONSTRUCTION START DATE AND NOTIFY THEM OF PROJECT COMPLETION. STAKING AND INSPECTION FOR THIS PROJECT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR
- IF TRAFFIC WILL BE IMPACTED BY CONSTRUCTION, A TRAFFIC CONTROL PLAN MUST BE SUBMITTED AND APPROVED BY THE CITY TRAFFIC ENGINEER, MIKE ARMOUR AT TRAFFIC@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 AS PUBLISHED BY THE US DEPT. OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION. ALL COSTS ASSOCIATED WITH CONSTRUCTION MARKINGS AND SIGNAGE SHALL BE THE CONTRACTORS RESPONSIBILITY.
- ALL ELEVATIONS ARE NAVD 88.
  - ALL AREAS DISTURBED DURING CONSTRUCTION THAT WILL NOT BE UNDER PROPOSED PAVEMENT SHALL BE RESTORED TO MATCH EXISTING CONDITIONS.
  - ANY SIDEWALK, DRIVE APPROACH, CURB, OR STREET PAVEMENT REMOVED TO CONSTRUCT PROJECT MUST HAVE A PAVEMENT CUT PERMIT AND BE REPLACED BY THE CITY CONTRACTOR. PERMITS CAN BE OBTAINED BY CALLING 316-268-4501 OR 316-268-4480
  - ALL APPLICABLE FEES (TAP, EQUITY, MILIEU OF & MAIN BENEFIT) MUST BE PAID BEFORE ANY CONNECTIONS CAN BE MADE ON THIS PROJECT. QUOTES CAN BE OBTAINED ON FEES BY CALLING 316-268-4555.
  - CITY MAINTENANCE OF WATER MAINS ENDS AT RIGHT-OF-WAY OR EASEMENT LINE OR WITHIN TWO FEET OF VAULT.
  - OPENING AND CLOSING OF WATER VALVES SHALL BE DONE SLOWLY TO PREVENT DAMAGE TO THE WATER DISTRIBUTION SYSTEM FROM WATER HAMMER. ALL VALVES CLOSED BY THE CONTRACTOR MUST BE REOPENED AS NEW CONSTRUCTION PERMITS. THE PROJECT INSPECTOR MUST ASCERTAIN THAT ANY VALVE CLOSED BY THE CONTRACTOR IS REOPENED. THE CONTRACTOR WILL BE PERMITTED TO OPERATE WATER VALVES ONLY WHEN THE PROJECT INSPECTOR ASSIGNED TO THE PROJECT IS PRESENT.
  - THE CONTRACTOR SHALL LAY A TRACER WIRE AND SET TEST STATIONS ALONG ALL WATER PIPE INSTALLED IN ACCORDANCE WITH CITY SPECIFICATION AND TRACER WIRE DETAIL ON DETAIL SHEET WL-101, COST SUBSIDIARY TO PIPE INSTALLATION.
  - THE CONTRACTOR SHALL PROVIDE MATERIAL FOR TEMPORARY BLOWOFF OF WATERLINES. CONNECTIONS TO THE EXISTING WATERLINES SHALL BE MADE WITH CLEAN, SWABBED PIPE AND FLUSHED UPON COMPLETION OF TIE-INS.
  - REQUESTS FOR SHORT TERM WATER INTERRUPTIONS SHALL BE MADE TO THE CITY WATER DISTRIBUTION DIVISION AND WILL BE SUBJECT TO THEIR APPROVAL. THE CONTRACTOR SHALL GIVE WRITTEN NOTICE TO ANY PROPERTY OWNER, BUSINESS, AND/OR TENANTS THAT WILL HAVE WATER SERVICE INTERRUPTED AT LEAST 5 DAYS IN ADVANCE. SUCH NOTIFICATION SHOULD INDICATE THE TIME AND DATE THAT THE WATER WILL BE TURNED OFF AND WHEN THE SERVICE WILL BE RESTORED. NO BUSINESS, PROPERTY OWNER, AND/OR TENANTS SHALL BE WITHOUT WATER SERVICE FOR MORE THAN 8 HOURS. PROPOSED TIE IN LOCATIONS WHICH WILL EFFECT WATER SERVICE TO PROPERTY OWNERS SHALL BE PREFORMED DURING NON-PEAK HOURS.
  - THE CONTRACTOR MUST SCHEDULE THE CONNECTIONS TO THE EXISTING MAIN WITH THE CITY SUCH THAT THERE IS A MINIMUM DISRUPTION OF SERVICE. CONNECTIONS SHALL BE MADE DURING PERIODS OF LOW WATER USAGE. THE CONTRACTOR SHALL SUBMIT HIS PROPOSED SCHEDULE FOR COMPLETING WORK FOR CITY APPROVAL AT LEAST 10 DAYS PRIOR TO BEGINNING CONSTRUCTION.
  - DEFLECTIONS AT PIPE JOINT OR COUPLINGS SHALL NOT EXCEED THE IPE MANUFACTURES RECOMMENDED MAXIMUM. WHERE DEFLECTIONS ARE GREATER THAN THE MAXIMUM ALLOWED, THE CONTRACTOR SHALL UTILIZE FITTINGS.
  - ANY EXISTING JOINT EXPOSED DURING EXCAVATION SHALL BE REPLACED IF WITHIN FOUR FEET OF PROPOSED JOINT.
  - VALVES 12 INCH AND LARGER ARE TO BE OPERATED BY THE CITY WATER DISTRIBUTION DIVISION. 48 HOURS OF ADVANCE NOTICE IS REQUIRED WITH THE WATER DISPATCH AT 316-291-8921.
  - ALL WET TAPS SHALL BE INSTALLED BY THE CITY OF WICHITA. THE CONTRACTOR WILL REIMBURSE THE CITY OF TAPPING FEES PRIOR TO TAP BEING MADE. UNLESS NOTED ON PLANS.
  - THE CONTRACTOR SHALL PROTECT FORM DAMAGE AND SUPPORT EXISTING UTILITIES THROUGH CONSTRUCTION APPROVED BY THE UTILITY OWNER AND THE ENGINEER AT THE CONTRACTORS EXPENSE CONTRACTOR SHALL LIMIT THE EXTENT OF TRENCH OPENINGS OVERNIGHT AND WEEKENDS TO LESS THAN 50 FEET.
  - WICHITA FIRE DEPARTMENT INSPECTIONS MAY BE SCHEDULED BY CALLING 31-268-4441

PROJECT #: 2021-035911PPW



W 29TH STREET  
PROJECT LOCATION  
N MAIZE ROAD  
N TYLER ROAD  
W 21ST STREET NORTH  
SITE VICINITY MAP  
NW CORNER OF  
SECTION 5  
TOWNSHIP 27 SOUTH  
RANGE 1 WEST

From storm Inlet # 4750-0602  
Tap 53' N and 127' E  
Hydrant 53' N and 204' E  
Valve Box 53' E and 203' E  
45 degree bend 53' N and 184' E  
45 degree vertical bend 53' N and 178' E

Star Valve Box & Anoid  
Mueller Valves  
Mueller Fire Hydrant and Stortz  
Star Tee  
Star 8" MJ Bolt & Gasket PK  
C110 Bolts  
Norther Pipe 8" T600

## SHEET INDEX

- SITE PLAN
- GRADING PLAN
- PLAN AND PROFILE
- EROSION CONTROL PLAN
- DETAILS AND SPECIFICATIONS

## PROJECT CONTACTS

### ENGINEER OF RECORD

AUBRY ENTERPRISES  
JAY D. O'DELL, P.E.  
15105 METCALF AVE UNIT A  
OVERLAND PARK, KS 66223  
JAY.ODELL@AUBRYENTERPRISES.COM

### AS BUILTS

Contractor: McCullough Excavation 3-10-22	Project Inspector: John Schuller <b>KEMILLER</b> ENGINEERING PA 117 E. Lewis, Wichita, KS 67202 (316)264-0242
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APPROVED AS NOTED  
BY WICHITA PUBLIC WORKS  
ENGINEERING DIVISION  
& BY WICHITA FIRE DEPARTMENT

Engineering	Benjamin Ferguson	Approved 12/7/2021
Utilities	Greg Lolley	Approved 12/7/2021
Fire Dept.	Jose Ocadiz	Approved 12/7/2021

NOTE TO CONTRACTORS

Public Property:  
Inspection and testing for the waterline is to be provided by a Licensed Consulting Engineering Firm under contract with the Owner/Developer. Said inspection is 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 right-of-way by the Contractor without such inspection nor shall any work be commenced without written authorization by City Engineering. All Construction and Materials shall comply with the City or Wichita Specifications and Standards and Special Provision (on file and available in the City Engineer's Office) or on the City's Website.

Private Property:  
Installation and testing for the fire protection line is to be performed by a City of Wichita licensed fire protection contractor in accordance with the fire codes as adopted by the City of Wichita. All material and construction practices for the fire protection line shall comply with the fire codes as adopted by the City of Wichita (available from the City of Wichita Fire Department). The Contractor shall not commence work without notification and approval of the Wichita Fire Department. Inspection of the fire protection line is to be provided by a licensed Engineering Firm under contract with the Owner/Developer and the Fire Department. The contractor shall not start work until the project inspector is assigned to the project and present on the site. Any work done without inspection will be required to be uncovered for inspection.

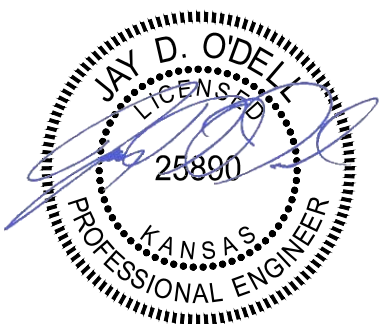
An approved copy of these plans signed by City staff are required on-site.

## APPROVED BY

NAME

DATE

TITLE SHEET



JAY D. O'DELL  
STATE PE# 12/1/2021

CLIENT  
**ACCELERATED  
DEVELOPMENT  
SERVICES**  
2415 E CAMELBACK  
ROAD, SUITE 400  
PHOENIX, AZ 85016

ENGINEERING FIRM OF RECORD  
**AUBRY ENTERPRISES**  
ENGINEERING | LOGISTICS | AGRICULTURE  
Responsibly Sustainable  
KANSAS OFFICE  
15105 METCALF AVE UNIT A  
OVERLAND PARK, KS 66223  
COLORADO OFFICE  
48700 COUNTY RD FF  
AKRON, COLORADO 80720

REV	DESCRIPTION	DATE

Dutch Bros  
PPW

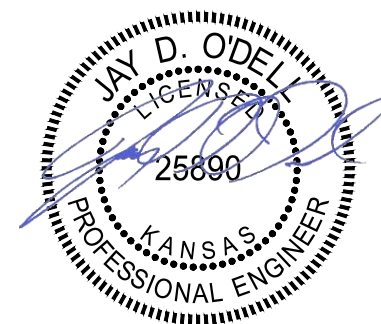
12/1/2021



## BENCHMARK

CUT SET in NE Corner of Headwall located 65' East of  $\epsilon$  N. Maize Rd & 40' North of  $\epsilon$  of Entrance located in Reserve A Cadillac Ranch 2nd Add.  
ELEVATION 1350.95' (NAVD88)





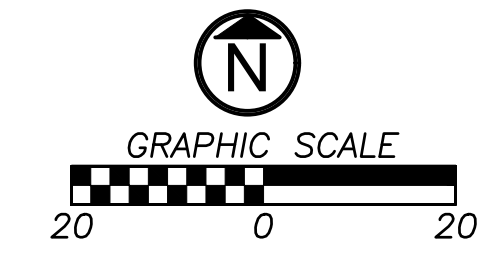
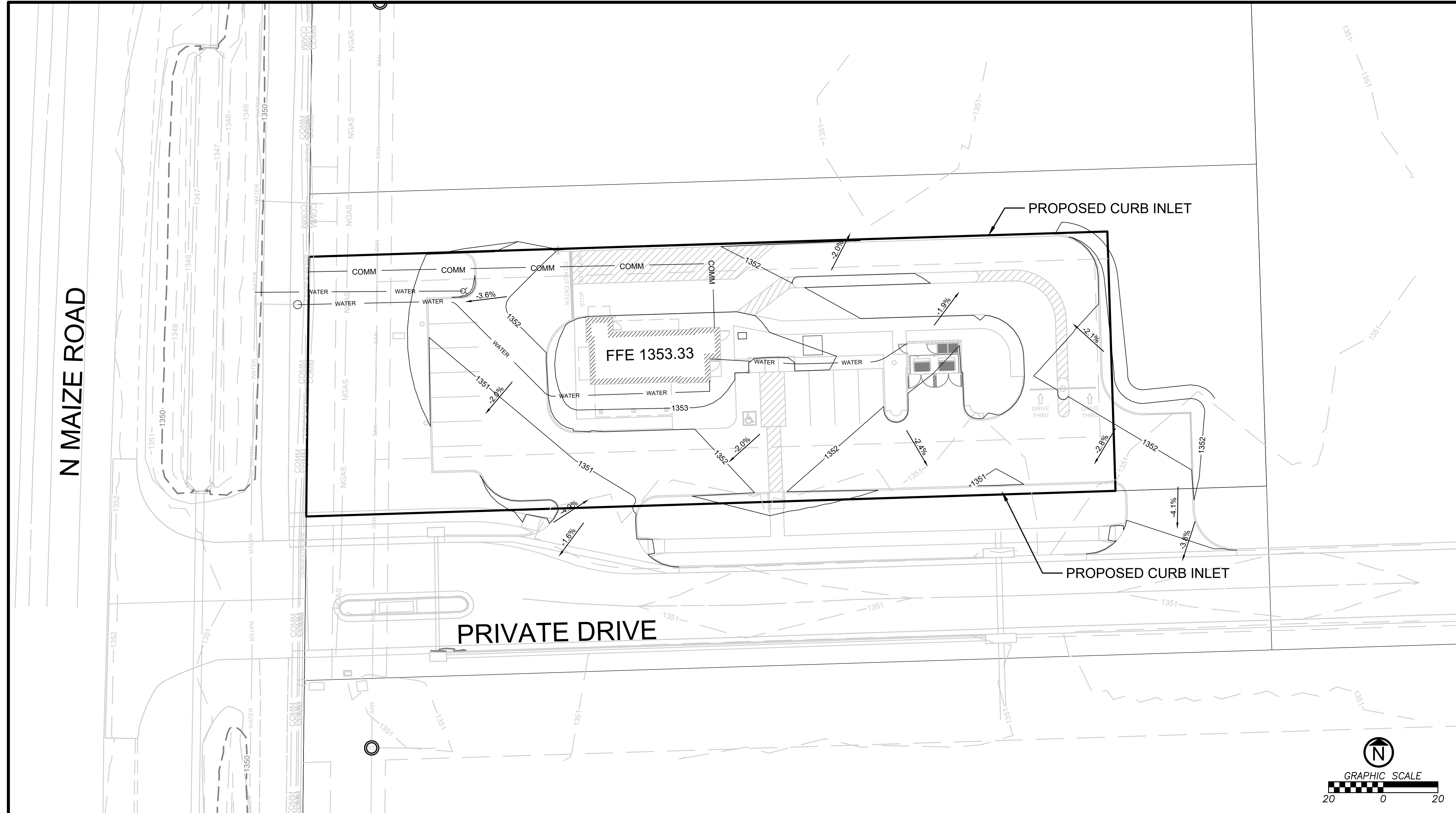
JAY D O'DELL  
25890 12/1/2021

CLIENT  
**ACCELERATED DEVELOPMENT SERVICES**  
2415 E CAMELBACK ROAD, SUITE 400  
PHOENIX, AZ 85016

ENGINEERING FIRM OF RECORD  
**AUBRY ENTERPRISES ENGINEERING LOGISTICS/AGRICULTURE**  
*Responsibly Sustainable*  
KANSAS OFFICE: 11184 ANTOCH ROAD #32 OVERLAND PARK, KS 66210  
COLORADO OFFICE: 48700 COUNTY RD FF AKRON, COLORADO 80720  
CERTIFICATE OF AUTHORITY NUMBER: E-4065

### GRADING LEGEND

- EXISTING 5' CONTOUR
- - - EXISTING 1' CONTOUR
- PROPOSED 5' CONTOUR
- PROPOSED 1' CONTOUR
- PROPOSED HIGH POINT/ RIDGE
- TP XXX.XX PROPOSED TOP OF PAVEMENT ELEVATION
- TS XXX.XX PROPOSED TOP OF SIDEWALK ELEVATION
- TC XXX.XX TOP OF CURB ELEVATION
- EX XXX.XX EXISTING ELEVATION
- EX TP XXX.XX EXISTING TOP OF PAVEMENT ELEVATION
- EX TS XXX.XX EXISTING TOP OF SIDEWALK ELEVATION



### GRADING NOTES

1. GRADING MATERIALS AND PROCEDURES SHALL BE IN ACCORDANCE WITH THE METROPOLITAN AREA BUILDING AND CONSTRUCTION STANDARDS. ANY REQUIREMENTS SET FORTH IN THE PLANS THAT ARE IN CONFLICT WITH THE METROPOLITAN AREA BUILDING AND CONSTRUCTION STANDARDS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD
2. FILL MATERIALS SHALL BE PLACED IN ACCORDANCE WITH METROPOLITAN AREA BUILDING AND CONSTRUCTION STANDARDS AND AS DIRECTED BY THE ONSITE GEOTECHNICAL ENGINEER
3. ALL PROPOSED CONTOUR LINES AND SPOT ELEVATIONS SHOWN ARE FINISHED GRADE ELEVATIONS. CONTRACTOR SHALL ACCOUNT FOR PAVEMENT DEPTHS, TOPSOIL, AGGREGATE BASES, ETC WHEN GRADING THE SITE
4. ALL EXCAVATIONS AND EMBANKMENTS SHALL COMPLY WITH THE REQUIREMENTS OF THE METROPOLITAN AREA BUILDING AND CONSTRUCTION STANDARDS
5. FINISHED GRADES SHALL NOT BE STEEPER THAN 3:1
6. ALL GRADING WORK SHALL BE CONSIDERED UNCLASSIFIED, NO ADDITIONAL PAYMENTS SHALL BE MADE FOR ROCK EXCAVATION. CONTRACTOR SHALL SATISFY HIMSELF AS TO ANY ROCK EXCAVATION REQUIRED TO ACCOMPLISH THE IMPROVEMENTS SHOWN HEREON.
7. IT SHALL BE ASSUMED, UNLESS OTHERWISE NOTED ON THE PLANS THAT ALL PAVEMENT GRADES ARE 0.5 FT BELOW TOP OF CURB GRADES.

### PROJECT BENCHMARK

PROJECT TBM1  
ELEV: 1350.97 (NAVD88)  
DESC: CHIZELED SQUARE SET IN NE CORNER OF HEADWALL LOCATED 65' EAST OF CENTERLINE OF N MAIZE ROAD & 40' NORTH OF CENTERLINE OF ENTRANCE LOCATED IN RESERVE A CADILLAC RANCH 2ND ADD.

REV	DESCRIPTION	DATE

Dutch Bros  
PPW

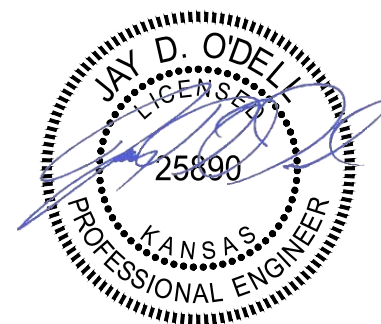
12/1/2021

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GRADING  
PLAN

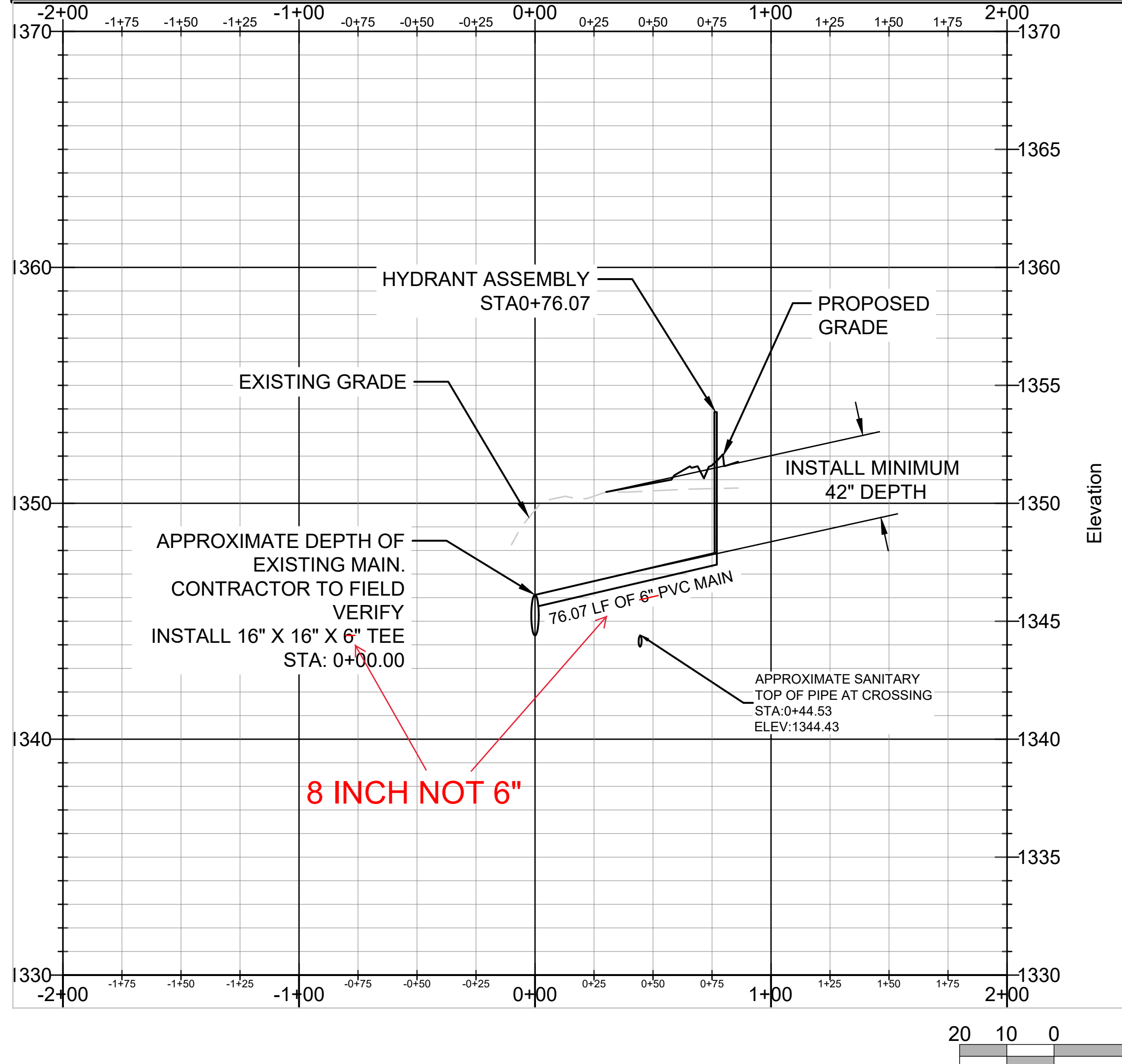
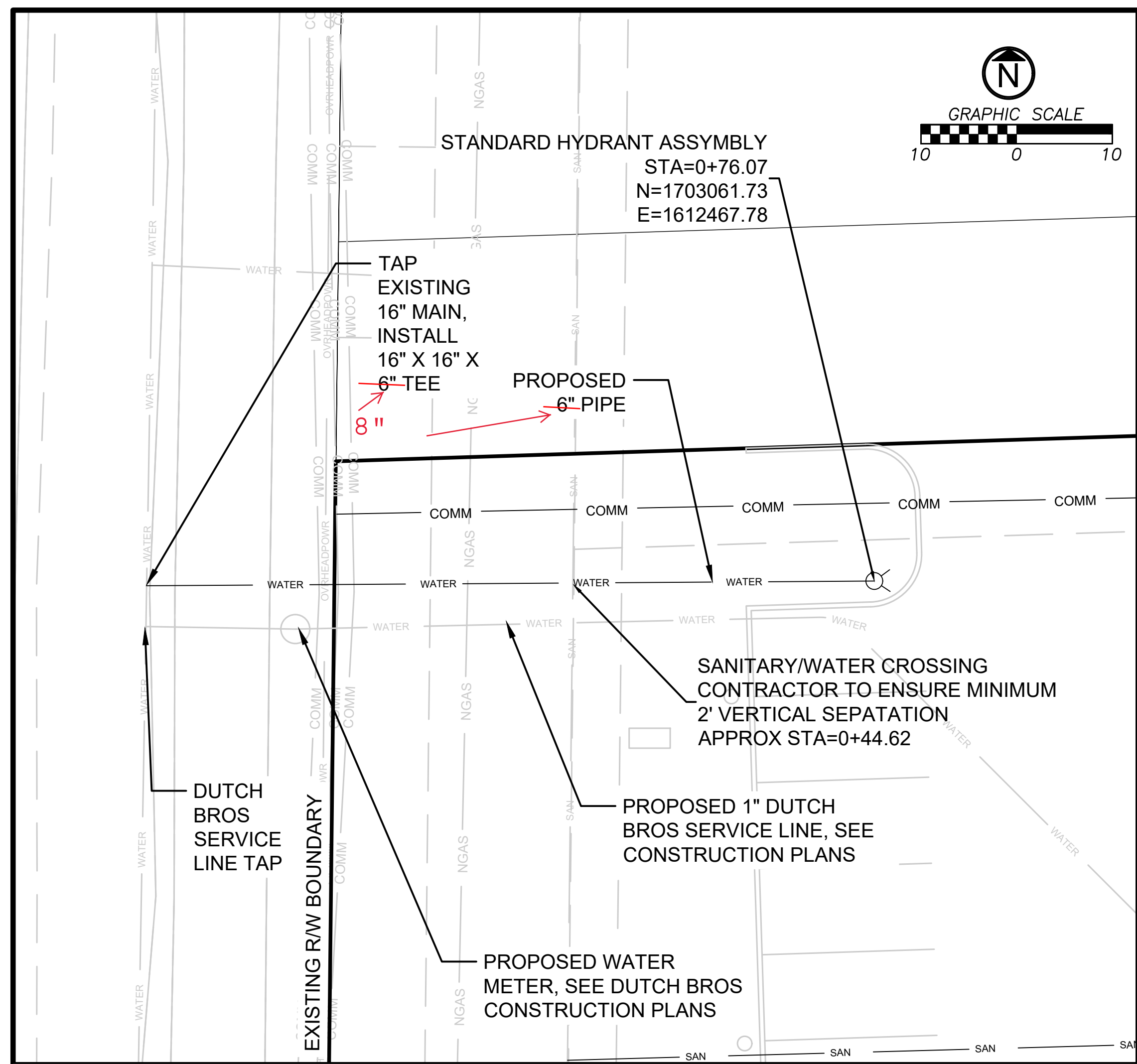
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NAME  
NUMBER  
12/1/2021

### Separation of Water Mains and Sewers.

- Section 803.4, "Separation of Water Mains and Sewers", delete subsection "a" and replace with the following subsections:
- a) Gravity Sanitary Sewers. When potable water pipes and gravity sanitary sewers are laid parallel to each other, the horizontal distance between them shall be not less than 10 feet regardless of elevation difference. The distance shall be measured from edge to edge. The laying of water pipes and sanitary sewers shall be in separate trenches with undisturbed earth between them. In cases where it is not practical to maintain a 10-foot separation, equivalent protection shall be required and approved by KDHE.
  - b) When a water pipe and a gravity sanitary sewer cross and there is 2 feet or more of separation (clear no special requirements or limitations are provided herein. In cases where it is not practical to maintain a 2-foot separation, equivalent protection shall be required and approved by KDHE. Joints in the sewer pipe shall be located as far as practical from the intersected water main.
  - c) Pressure Sanitary Sewers. When a water pipe and pressure sanitary sewer are laid parallel to each other, the same separation rules apply as for gravity pipe. When a water pipe (including service lines) and a pressure sanitary sewer cross and the pressure sewer is 2 feet or more (clear space) below the water pipe, no special requirements or limitations are provided herein. In cases where it is not practical to maintain a 2-foot separation or the sewer is above, equivalent protection shall be required and approved by KDHE.



**THE FIRE LINE MUST BE 8" AND NOT 6" AS SHOWN  
PER GREGG LOLLEY AND CHIEF ORTEZA IT IS OKAY  
TO SHOW THIS CHANGE ON THE AS-BUILT DRAWINGS**

## AS BUILTS

117 E. Lewis,  
Wichita, KS 67202      (316)264-0242

CLIENT

ENGINEERING FIRM OF RECORD  
**AUBRY ENTERPRISES**  
ENGINEERING LOGISTICS/AGRICULTURE  
*Responsibly Sustainable*

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15105 METCALF AVE UNIT A  
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Dutch Bros  
PPW

12/1/2021

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PLAN AND  
PROFILE

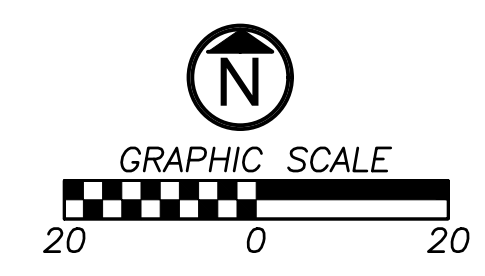
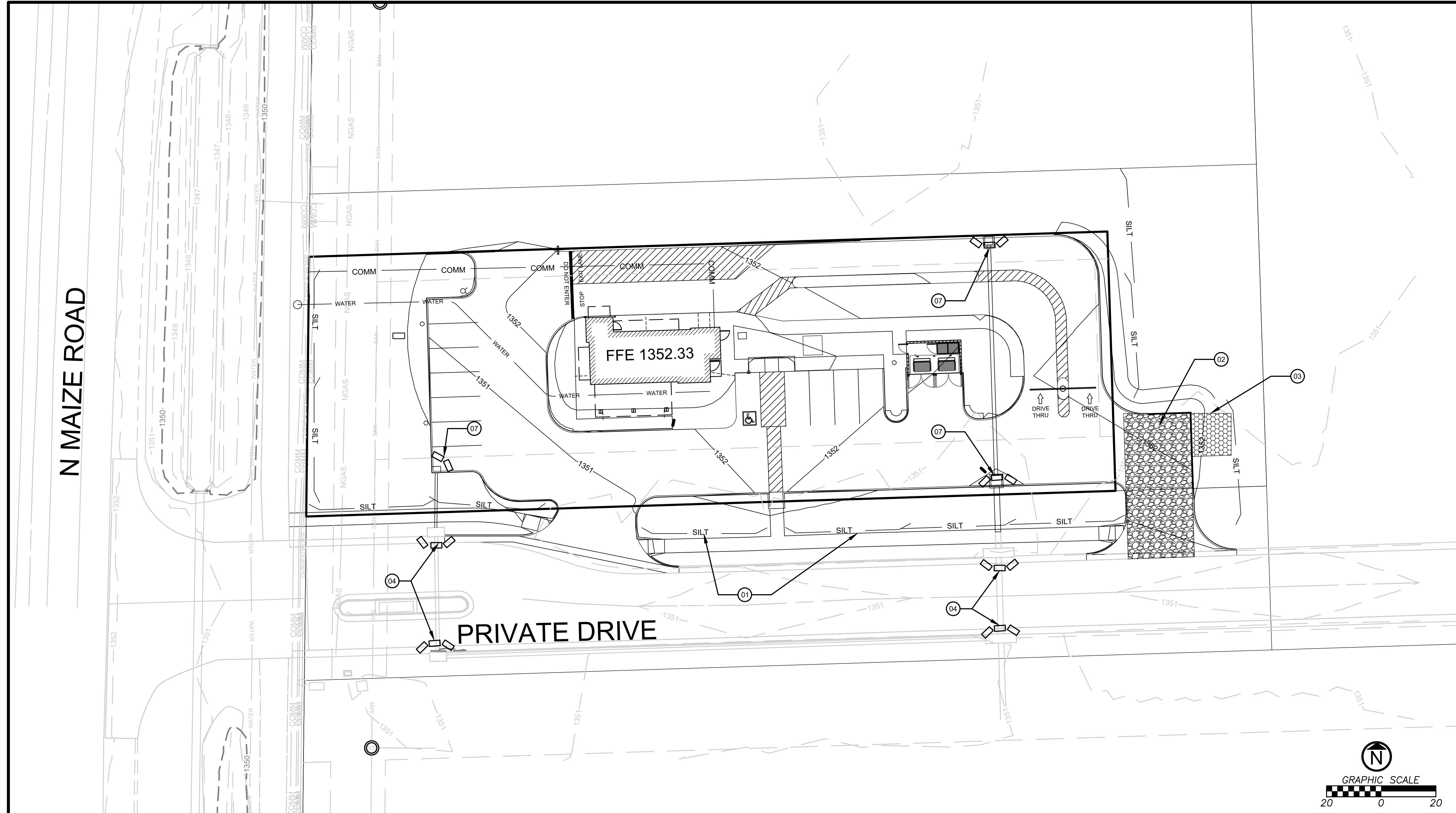
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JAY D O'DELL  
25890 12/1/2021

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CERTIFICATE OF AUTHORITY NUMBER: E-4065



REV	DESCRIPTION	DATE

**Dutch Bros PPW**

**EROSION AND SEDIMENT CONTROL STAGING CHART**

PROJECT STAGE	BMP REF	BMP DESCRIPTION	NOTES:
STAGE 1- PLACE PRIOR TO LAND DISTURBANCE	01	PERIMETER SILT FENCE	PLACE AS SHOWN
	02	CONSTRUCTION ENTRANCE	PLACE AS SHOWN
	03	CONCRETE WASH OUT	PLACE AS SHOWN
	04	EXISTING STORM INLET PROTECTION	PLACE AS SHOWN
STAGE 2- PLACE AFTER DEMO, CLEARING AND GRUBBING	05	INTERIOR SILT FENCE	PLACE AS NEEDED.
	06	STEEP SLOPE/EROSION CONTROL MAT	PLACE AS SHOWN
STAGE 3- AFTER STORM SYSTEM	07	INLET PROTECTION FOR NEW INLETS	PLACE AS SHOWN
	08	FINAL SEEDING, SOD AND LANDSCAPE	
STAGE 4 - AFTER PAVEMENT PLACEMENT			

**EROSION CONTROL LEGEND**

- TEMPORARY CONSTRUCTION ENTRANCE
- INLET PROTECTION
- SILT FENCE
- CONCRETE WASHOUT

**DETAILS**

SEE SHEET C8.2 FOR THE FOLLOWING:  
101 TEMPORARY CONSTRUCTION  
102 SILT FENCE  
103 CURB INLET PROTECTION  
104 CONCRETE WASHOUT

**12/1/2021**  
BUILDING PERMIT

PROJECT ADDRESS  
WICHITA, KS 67205

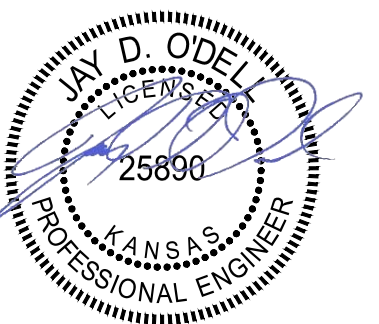
**EROSION CONTROL PLAN**  
**C4.0**

POST-CON - MID-CON - PRE-CON

# EROSION AND POLLUTION CONTROL GENERAL NOTES

1. PRIOR TO LAND DISTURBANCE ACTIVITIES, THE FOLLOWING SHALL OCCUR:
  - 1.1. DELINEATE THE OUTER LIMITS OF ANY NATURAL STREAM CORRIDOR DESIGNATED IN ACCORDANCE WITH LOCAL STANDARDS WITH CONSTRUCTION FENCING.
  - 1.2. IDENTIFY THE LIMITS OF CONSTRUCTION ON THE GROUND WITH EASILY RECOGNIZABLE INDICATIONS SUCH AS CONSTRUCTION STAKING, CONSTRUCTION FENCING AND PLACEMENT OF PHYSICAL BARRIERS OR OTHER MEANS ACCEPTABLE TO THE INSPECTOR AND IN CONFORMANCE WITH THE EROSION AND POLLUTION CONTROL PLANS:
    - 1.2.1. CONSTRUCT A STABILIZED ENTRANCE/PARKING/STAGING AREA
    - 1.2.2. INSTALL PERIMETER CONTROLS AND PROTECT AND EXISTING STORMWATER INLETS
    - 1.2.3. REQUEST AN INITIAL INSPECTION OF THE INSTALLED PRE-CONSTRUCTION POLLUTION CONTROL MEASURE DESIGNATED ON THE APPROVED EROSION AND POLLUTION CONTROL PLAN. LAND DISTURBANCE WORK SHALL NOT PROCEED UNTIL APPROVED BY COUNTY.
2. THE SITE SHALL COMPLY WITH ALL REQUIREMENTS OF THE KANSAS WATER POLLUTION CONTROL AND NPDES STORMWATER RUNOFF FORM CONSTRUCTION SITES GENERAL PERMIT, APPLICABLE SECTIONS OF THE CURRENT APWA KC MANUAL, AND THE CURRENT JOHNSON COUNTY STANDARDS INCLUDING BUT NOT LIMITED TO;
  - 2.1. IMMEDIATE INITIATION OF TEMPORARY STABILIZATION BMPs ON DISTURBED AREAS WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY CEASED ON THAT PORTION OF THE PROJECT SITE IF CONSTRUCTION ACTIVITIES WILL NOT RESUME FOR A PERIOD EXCEEDING 14 CALENDAR DAYS. TEMPORARY STABILIZATION MAY INCLUDE ESTABLISHMENT OF VEGETATION, GEOTEXTILES, MULCHES OR OTHER TECHNIQUES TO REDUCE OR ELIMINATE EROSION UNTIL EITHER FINAL STABILIZATION CAN BE ACHIEVED OR UNTIL FURTHER CONSTRUCTION ACTIVITIES TAKE PLACE TO RE-DISTURB THE AREA. THIS STABILIZATION MUST BE COMPLETED WITHIN 14 CALENDAR DAYS.
  - 2.2. AN INSPECTION LOG IS LOCATED WITHIN THE PROJECT SWPPP DOCUMENT AND SHALL BE MAINTAINED. LOGS SHALL BE AVAILABLE FOR REVIEW BY THE REGULATOR AUTHORITY UPON REQUEST.
  - 2.3. THE EROSION AND POLLUTION CONTROL PLAN SHALL BE ROUTINELY UPDATED TO SHALL ALL MODIFICATIONS AND AMENDMENTS TO THE ORIGINAL PLAN. A COPY OF THE EROSIONS AND POLLUTION CONTROL PLAN SHALL BE KEPT ON SITE AND MADE AVAILABLE FOR REVIEW BY THE REGULATORY AUTHORITY.
3. UNLESS OTHERWISE NOTED ON THE PLANS, ALL SEEDING MUST CONFORM TO APWA SECTION 2406. TEMPORARY SEEDING SHALL ONLY BE USED FOR PERIODS NOT TO EXCEED 12 MONTHS. FOR FINAL STABILIZATION, TEMPORARY SEEDING SHALL ONLY BE USED TO ESTABLISH VEGETATION OUTSIDE THE PERMANENT SEEDING OR SODDING DATES AS SPECIFIED IN THE STANDARD SPECIFICATIONS. FINAL STABILIZATION REQUIRES A UNIFORM PERENNIAL VEGETATIVE COVER WITH A DENSITY OF 70% OVER 100% OF DISTURBED AREA.
4. EROSION AND POLLUTION CONTROL SHALL BE PROVIDED FOR THE DURATION OF THE PROJECT. ALL INSTALLED EROSION AND POLLUTION CONTROL BMPs SHALL BE MAINTAINED IN A MANNER THAT PRESERVES THEIR EFFECTIVENESS. IF THE COUNTY DETERMINES THAT THE BMPs IN PLACE DO NOT PROVIDE ADEQUATE EROSION AND POLLUTION CONTROL AT ANY TIME DURING THE PROJECT, ADDITIONAL OR ALTERNATE MEASURES THAT PROVIDE EFFECTIVE CONTROL SHALL BE REQUIRED.
5. CONCRETE WASH OR RINSEWATER FROM CONCRETE MIXING EQUIPMENT, TOOLS AND/OR READY-MIX TRUCKS, ETC. MAY NOT BE DISCHARGED INTO OR BE ALLOWED TO RUN TO ANY EXISTING WATER BODY OR PORTION OF THE STORMWATER SYSTEM. ONE OR MORE LOCATION FOR CONCRETE WASHOUT WILL BE DESIGNATED ON SITE, SUCH THAT DISCHARGES DURING CONCRETE WASHOUT WILL BE CONTAINED IN A SMALL AREA WHERE WASTE CONCRETE CAN SOLIDIFY IN PLACE. PROPER SIGNAGE WILL BE INSTALLED TO DIRECT USERS TO CONCRETE WASHOUT.
6. WORK IN OR NEAR WATER BODIES SHALL LIMIT DISTURBANCE AREA AND DURATION OF DISTURBANCE AS DESCRIBED IN THE COUNTY STANDARDS.
7. POLLUTION OF STREAMS, LAKES, WETLANDS, DRAINAGE WAYS OR STORM SEWERS FROM FUEL, OILS, HAZARDOUS CHEMICALS, SEDIMENT, TRASH, DEBRIS, OR OTHER SUBSTANCES RESULTING FROM CONSTRUCTION ACTIVITIES SHALL NOT BE ALLOWED. ALL SPILLS IN EXCESS OF REPORTABLE QUANTITIES SHALL BE REPORTED TO ALL OF THE FOLLOWING WITHIN 24 HOURS OF THEIR OCCURRENCE:
  - KDHE 24-HOUR SPILL RESPONSE CENTER - (785) 296-1679
  - KDHE NORTHEAST DISTRICT, LAWRENCE - (785) 842-4600
  - NATIONAL SPILL RESPONSE CENTER - 1-800-424-8802

SPILLS THAT POSE IMMEDIATE THREAT TO PUBLIC SAFETY OR CONTAMINATION OF A WATER BODY SHALL BE REPORTED IMMEDIATELY TO THE LOCAL FIRE DEPARTMENT AT 911. SUCH SPILLS SHALL ALSO BE REPORTED TO THE KANSAS DIVISION OF EMERGENCY MANAGEMENT 1-800-275-0297
8. SILT FENCES AND SEDIMENT CONTROL BMPs WHICH ARE SHOWN ALONG THE BACK OF CURB MUST BE INSTALLED WITHIN TWO WEEKS OF CURB BACKFILL AND PRIOR TO PLACEMENT OF BASE ASPHALT. EXACT LOCATIONS OF THESE EROSION CONTROL METHODS MAY BE FIELD ADJUSTED TO MINIMIZE CONFLICTS WITH UTILITY CONSTRUCTION. HOWEVER, ANTICIPATED DISTURBANCE BY UTILITY CONSTRUCTION SHALL NOT DELAY INSTALLATION.
9. REQUIRED SEDIMENT BASINS AND TRAPS SHALL BE INSTALLED AS EARLY AS POSSIBLE DURING MASS GRADING AS INDICATED IN THE STAGING CHART. SEDIMENT BASINS AND TRAPS SHALL BE CLEANED OUT WHEN THE SEDIMENT CAPACITY HAS BEEN REDUCED BY 20% OF ITS ORIGINAL DESIGN VOLUME.
10. ALL MANUFACTURED BMPs SUCH AS EROSION CONTROL BLANKETS, TRMS, BIODEGRADABLE LOGS, FILTER SOCKS, SYNTHETIC SEDIMENT BARRIERS AND HYDRAULIC EROSION CONTROL SHALL BE INSTALLED AS DIRECTED BY MANUFACTURER.
11. THE ABOVE REQUIREMENTS ARE THE RESPONSIBILITY OF THE PERMITTEE FOR THE SITE.



JAY D O'DELL  
25890  
12/1/2021

CLIENT  
**ACCELERATED DEVELOPMENT SERVICES**  
2415 E CAMELBACK ROAD, SUITE 400  
PHOENIX, AZ 85016

ENGINEERING FIRM OF RECORD  
**AUBRY ENTERPRISES**  
ENGINEERING | LOGISTICS | AGRICULTURE  
*Responsibly Sustainable*  
KANSAS OFFICE  
11184 ANTOCH ROAD #32  
OVERLAND PARK, KS 66210  
COLORADO OFFICE  
48700 COUNTY RD FF  
AKRON, COLORADO 80720  
CERTIFICATE OF AUTHORITY NUMBER: E-4065

REV	DESCRIPTION	DATE

**Dutch Bros  
PPW**

## EROSION AND SEDIMENT CONTROL STAGING CHART

PROJECT STAGE	BMP REF	BMP DESCRIPTION	NOTES:
STAGE 1- PLACE PRIOR TO LAND DISTURBANCE	01	PERIMETER SILT FENCE	PLACE AS SHOWN
	02	CONSTRUCTION ENTRANCE	PLACE AS SHOWN
	03	CONCRETE WASH OUT	PLACE AS SHOWN
	04	EXISTING STORM INLET PROTECTION	PLACE AS SHOWN
STAGE 2- PLACE AFTER DEMO, CLEARING AND GRUBBING	05	INTERIOR SILT FENCE	PLACE AS NEEDED.
	06	STEEP SLOPE/EROSION CONTROL MAT	PLACE AS SHOWN
STAGE 3- AFTER STORM SYSTEM	07	INLET PROTECTION FOR NEW INLETS	PLACE AS SHOWN
STAGE 4 - AFTER PAVEMENT PLACEMENT	08	FINAL SEEDING, SOD AND LANDSCAPE	

## EROSION CONTROL LEGEND

- TEMPORARY CONSTRUCTION ENTRANCE
- INLET PROTECTION
- SILT FENCE
- CONCRETE WASHOUT

## DETAILS

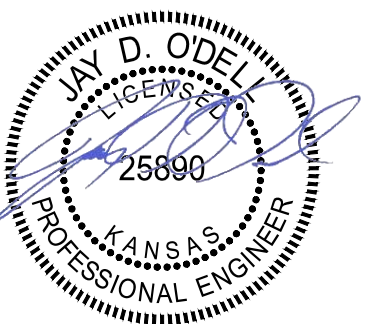
- SEE SHEET C8.2 FOR THE FOLLOWING:
- 101 TEMPORARY CONSTRUCTION
  - 102 SILT FENCE
  - 103 CURB INLET PROTECTION
  - 104 CONCRETE WASHOUT

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BUILDING PERMIT

PROJECT ADDRESS  
WICHITA, KS 67205

**EROSION CONTROL NOTES**

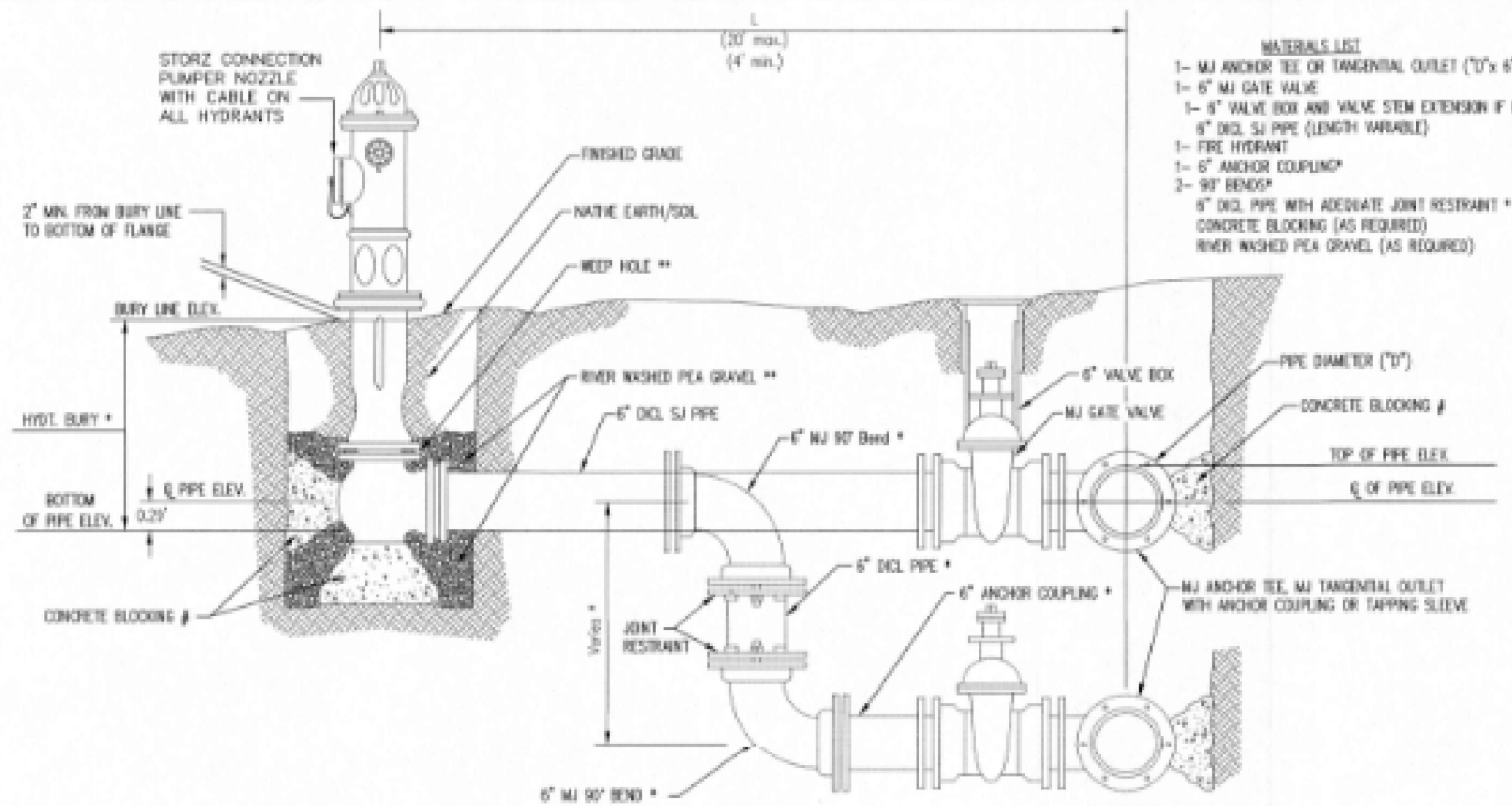
**C4.1**



JAY D ODELL  
25890 12/1/2021

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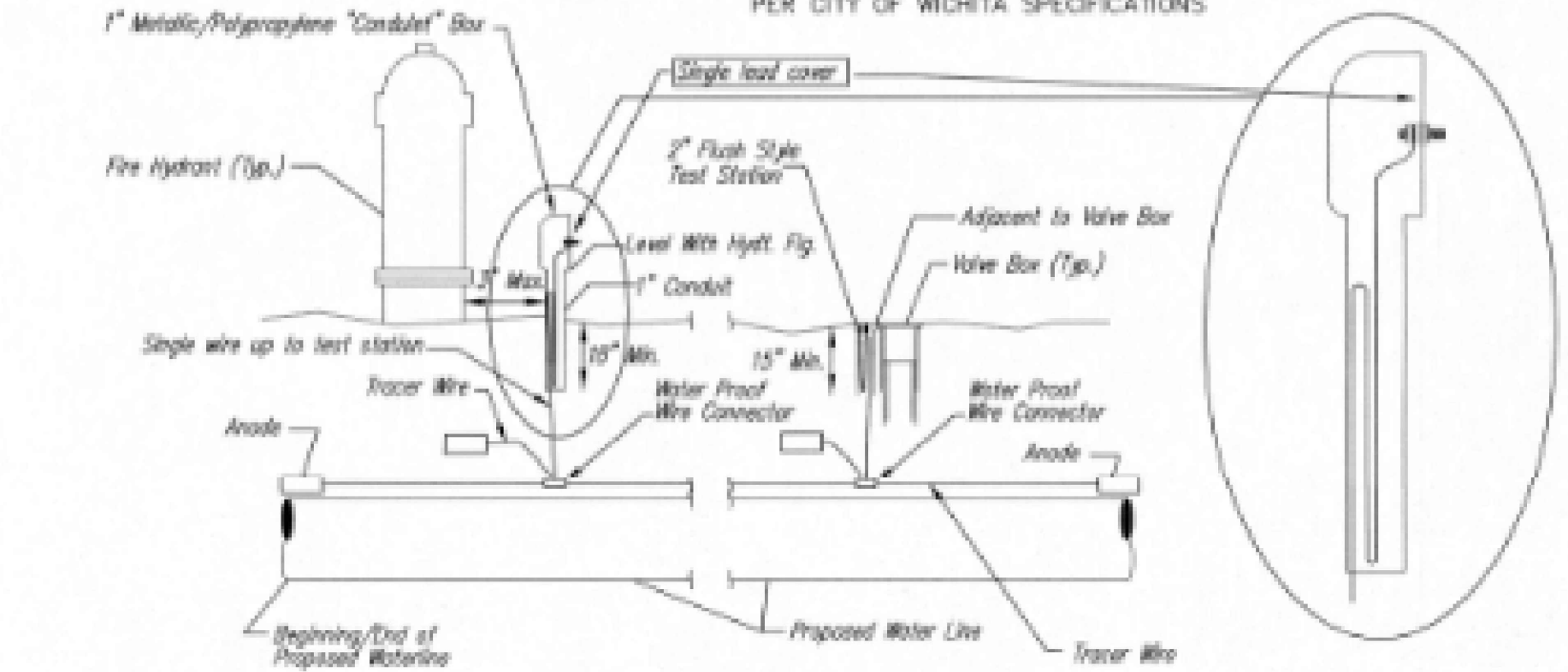
ENGINEERING FIRM OF RECORD  
**AUBRY ENTERPRISES ENGINEERING/LOGISTICS/AGRICULTURE**  
Responsibly Sustainable  
KANSAS OFFICE  
11184 ANTOCH ROAD #92  
OVERLAND PARK, KS 66210  
COLORADO OFFICE  
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AKRON, COLORADO 80720  
CERTIFICATE OF AUTHORITY NUMBER: XXXXXXXX



- MATERIALS LIST**
- 1- MJ ANCHOR TEE OR TANGENTIAL OUTLET (10" x 6")
  - 1- 6" MJ GATE VALVE
  - 1- 6" VALVE BOX AND VALVE STEM EXTENSION IF REQUIRED \*
  - 6" DI. SJ PIPE (LENGTH VARIABLE)
  - 1- FIRE HYDRANT
  - 1- 6" ANCHOR COUPLING\*
  - 2- 90° BEND\*
  - 6" DI. PIPE WITH ADEQUATE JOINT RESTRAINT \*
  - CONCRETE BLOCKING (AS REQUIRED)
  - RIVER WASHED PEA GRAVEL (AS REQUIRED)

- \* IF THE REQUIRED HYDRANT BURY IS IN EXCESS OF 5', BUT LESS THAN 7', CONTRACTOR SHALL USE STANDARD 5' HYDRANT BURY AND HYDRANT BARREL EXTENSIONS AS NECESSARY. IF THE REQUIRED HYDRANT BURY IS GREATER THAN 7', CONTRACTOR SHALL USE 5' HYDRANT BURY, 2-MJ 90° BENDS, 6" ANCHOR COUPLING AND 6" DI. PIPE AS NECESSARY FOR VERTICAL ADJUSTMENT. THE CONTRACTOR SHALL PROVIDE ADEQUATE THRUST BLOCKING AT HYDRANT AND MEGALUUS, OR SIMILAR RESTRAINT BETWEEN 90° BENDS TO SECURE ALL FITTINGS DURING TESTING AND OPERATION. THE CONTRACTOR SHALL PROVIDE A VALVE STEM EXTENSION PER DETAIL THIS SHEET.
- \*\* CAUTION: WEEP HOLES TO BE KEPT CLEAR DURING CONSTRUCTION AND BACKFILL. CONCRETE FOR THRUST BLOCKING SHALL NOT OBSTRUCT WEEP HOLES. PLACE 1 CUBIC FOOT OF RIVER WASHED PEA GRAVEL AROUND EACH WEEP HOLE.
- † CONCRETE THRUST BLOCKING SHALL BE KEPT CLEAR OF BOLTS, NUTS, AND MJ ACCESSORIES.

**FIRE HYDRANT ASSEMBLY**  
PER CITY OF WICHITA SPECIFICATIONS



**TRACER WIRE**  
Conductive type pipe locator/tracer wire shall be installed to locate all waterline pipe regardless of pipe material. The wire shall extend the entire length of the proposed pipe. The wire shall be taped to the waterline and pulled with the pipe. A waterproof connector shall be used at splice locations. A complete list of approved tracer wire and waterproof connectors can be found on the City of Wichita's website at [www.wichita.gov](http://www.wichita.gov).

**WIRE**  
The tracer wire shall be Blue No. 12 AWG CCS with 45 mil HDPE insulation. To allow for grade adjustment, a minimum of 12" of excess wire shall be coiled at the bottom of the test station for all wires. Wire connectors shall be installed per manufacturer recommendations. Contractor shall attach wire being installed with proposed water main to any tracer wire installed with adjacent waterline projects.

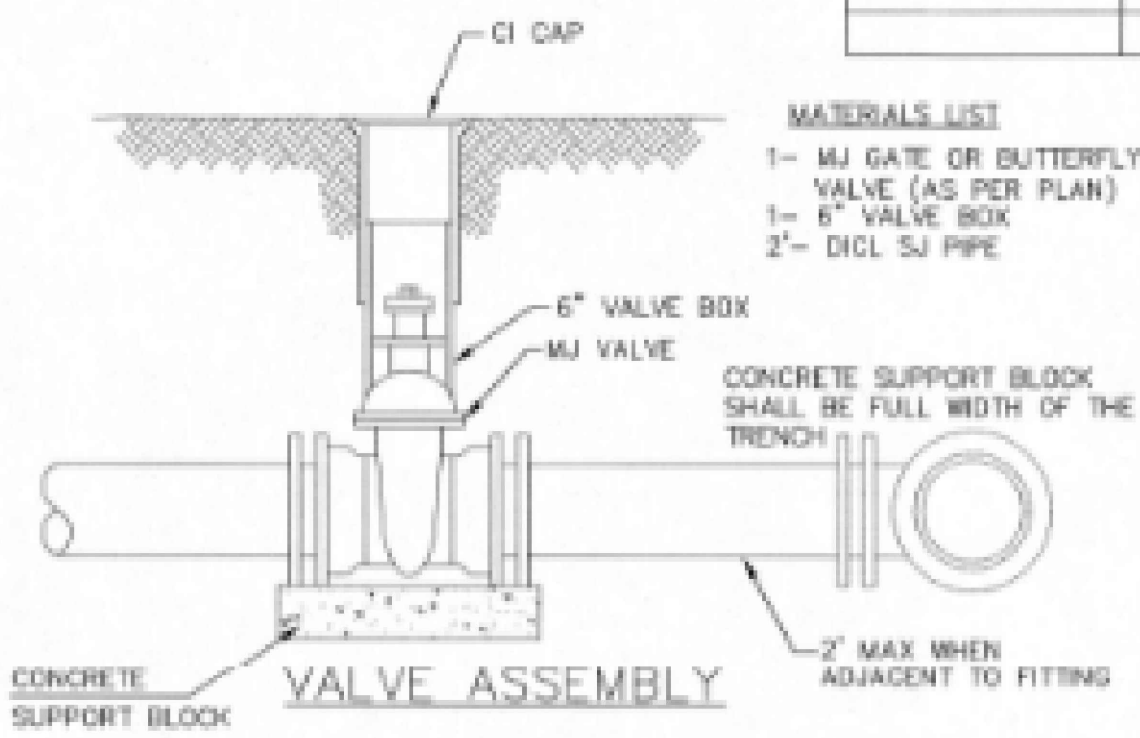
**TEST STATIONS**  
The test station for fire hydrant application shall be a 1" conduit style station as manufactured by AGRA Industries with a removable solid cover having a single lead extending from the face or approved equal. The "conduit" style test station shall be attached to a 1" rigid galvanized conduit with a minimum length of 36" and plastic end bushing. The flush style shall have the word "WATER" stamped or molded into the lid. The test station for valve applications shall be a 2" flush style test station with wire connector on lid. Model # T2PH781P Handley Industries or CD14\*TP SnakePit as manufactured by Copperhead Industries or approved equal. The flush style shall have the word "WATER" stamped or molded into the lid. All test stations shall be manufactured using molded blue tops or sufficiently coated with blue enamel paint. The tracer wire and the anode wire shall be installed to allow 12" of wire within the test station. The location of all test stations shall be recorded, and shown in the as-built drawings. Flush style test stations shall not be installed in pavement or sidewalk unless approved by the Engineer. Contractor shall extend tracer wire & move flush mount test station to nearest location out of pavement or sidewalk.

**ANODES**  
The anodes shall be 3 lb. bare zinc or magnesium. The anodes shall be buried at the same elevation as the waterline at each test station. The anodes shall be connected to 12 AWG CCS which shall be extended to the test station.

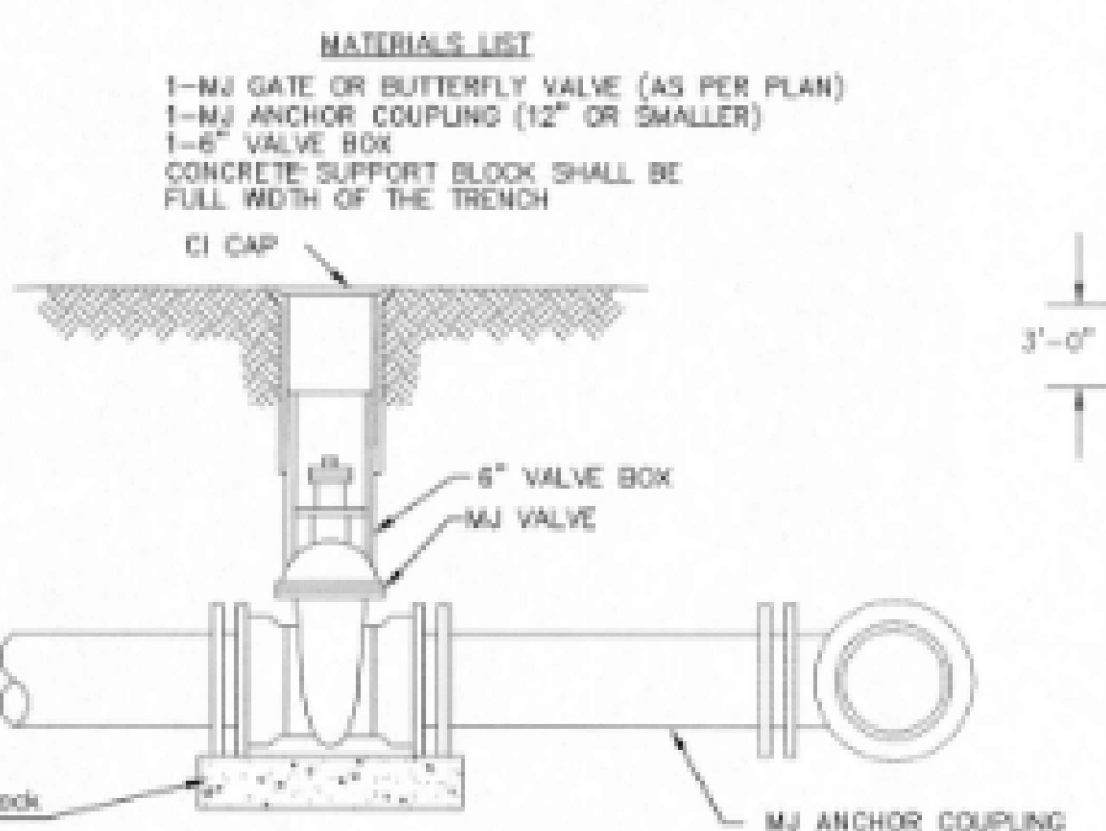
**TRACER WIRE DETAIL**  
NOTE: SUBSIDIARY TO PIPE INSTALLATION

**FIRE HYDRANTS REQUIRED**

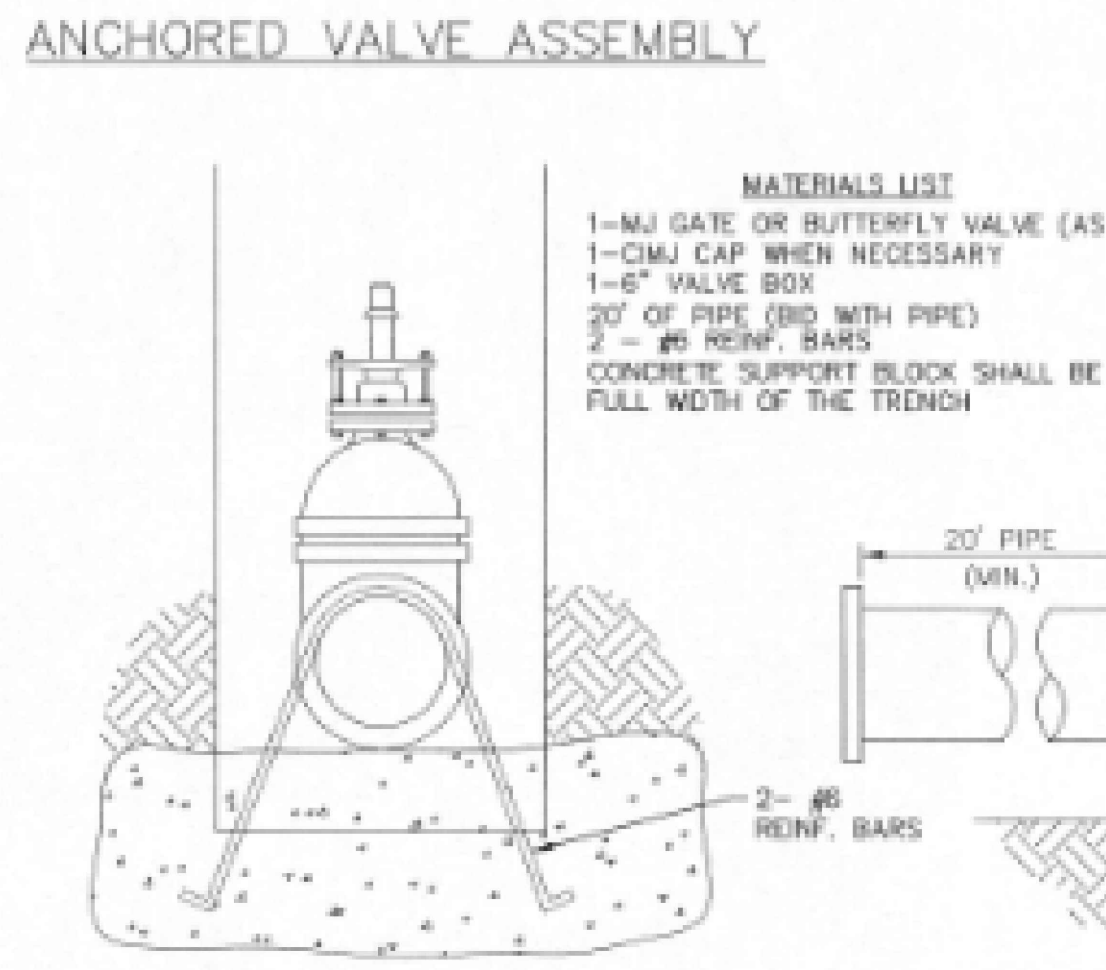
STATION	BURY LINE ELEVATION	TOP OF PIPE ELEVATION	FIRE HYDRANT BURY REQUIRED*	VALVE STEM EXT. REQUIRED (H)*
0+93.23	1346	1346.5	5.5'	1346



- MATERIALS LIST**
- 1- MJ GATE OR BUTTERFLY VALVE (AS PER PLAN)
  - 1- 6" VALVE BOX
  - 2- DI. SJ PIPE
  - CONCRETE SUPPORT BLOCK SHALL BE FULL WIDTH OF THE TRENCH



- MATERIALS LIST**
- 1- MJ GATE OR BUTTERFLY VALVE (AS PER PLAN)
  - 1- MJ ANCHOR COUPLING (12" OR SMALLER)
  - 1- 6" VALVE BOX
  - CONCRETE SUPPORT BLOCK SHALL BE FULL WIDTH OF THE TRENCH

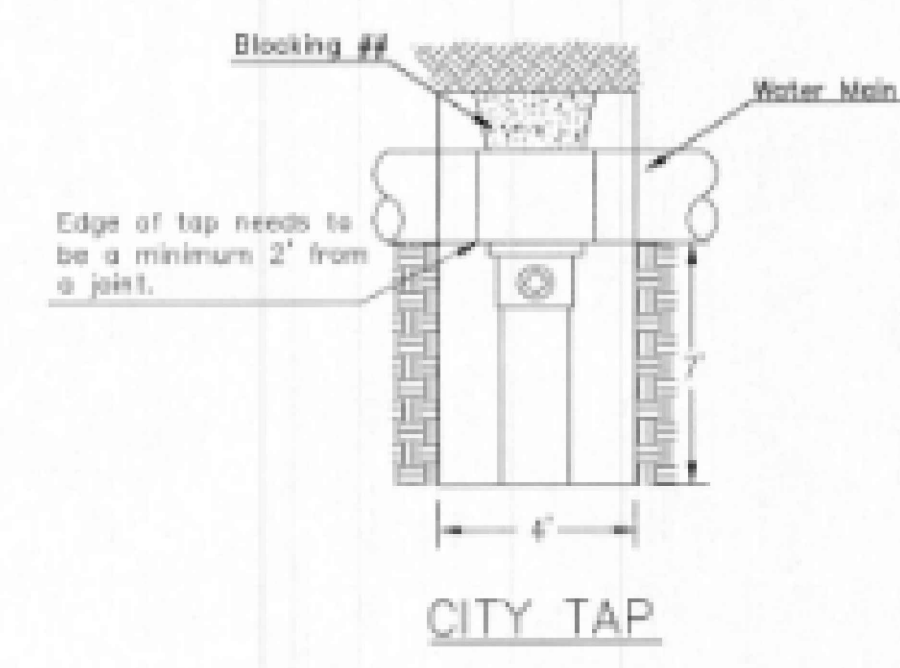


- Notes:**
- Concrete Block of Valve to have sufficient bearing in undisturbed soil to prevent thrust movement as shown in table at right. Field Engineer to determine thrust loading of undisturbed soil and final size of thrust block.
  - The thrust block shall be constructed such that bolts, nuts, and other MJ accessories are kept clear of concrete.
  - All valves at dead ends and at other locations as called out on the plans shall be blocked as shown here.

**THRUST AT VALVES**

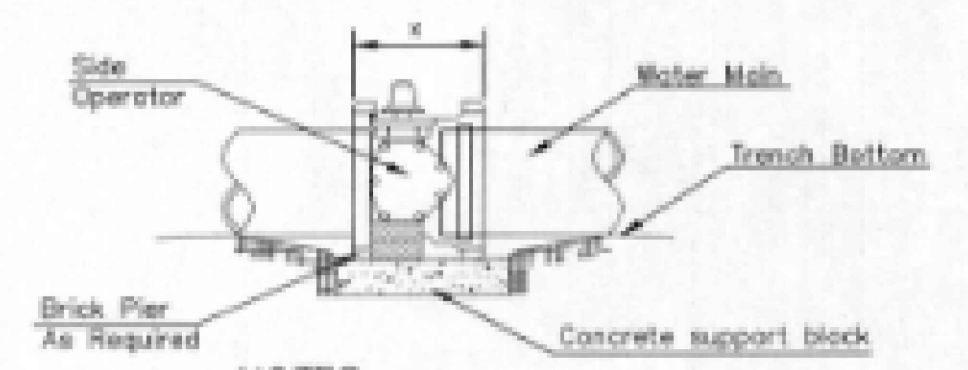
VALVE	THRUST AT 150 #/sq
4"	1809 lbs.
6"	4245 lbs.
8"	7540 lbs.
12"	16965 lbs.

**ANCHORED VALVE ASSEMBLY, SPECIAL**

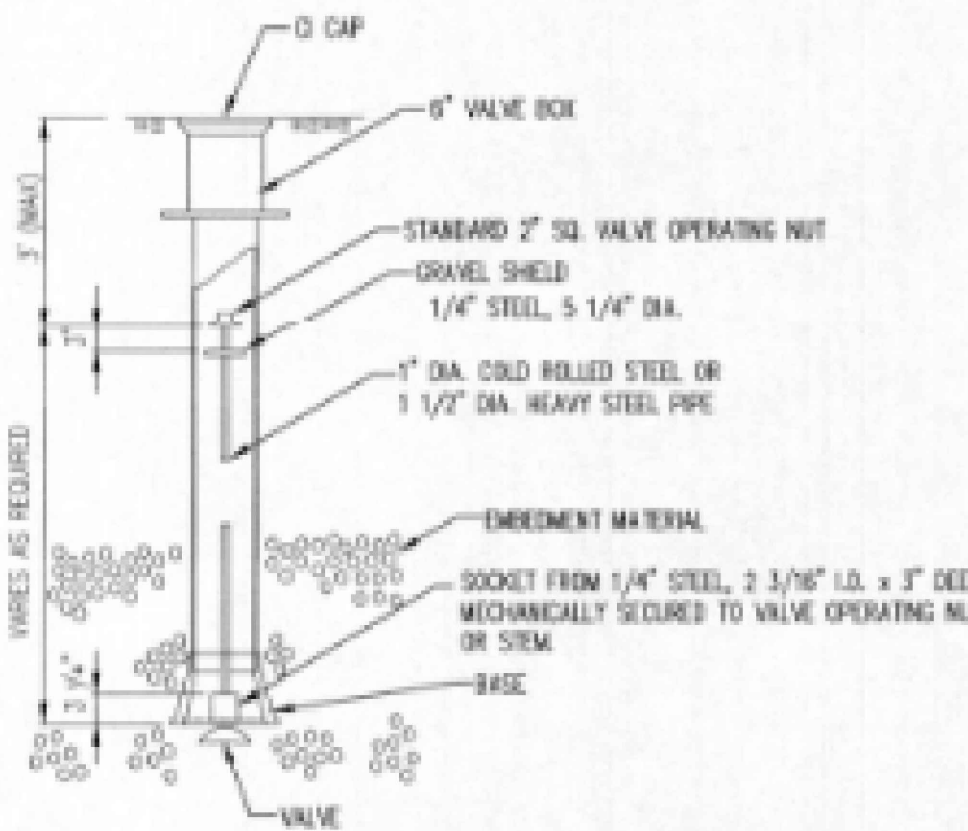


- MATERIALS LIST**
- 1- MJ GATE OR BUTTERFLY VALVE (AS PER PLAN)
  - 1- 6" VALVE BOX
  - 2- DI. SJ PIPE
  - CONCRETE SUPPORT BLOCK SHALL BE FULL WIDTH OF THE TRENCH

**PROTECTIVE FILL DETAIL**  
SAND OR PROTECTIVE FILL SHALL BE PROVIDED IN ALL INSTANCES WHERE COVER OVER THE PROP. WATER LINE IS LESS THAN 3". (SEE SUBSIDIARY TO PIPE INSTALLATION)

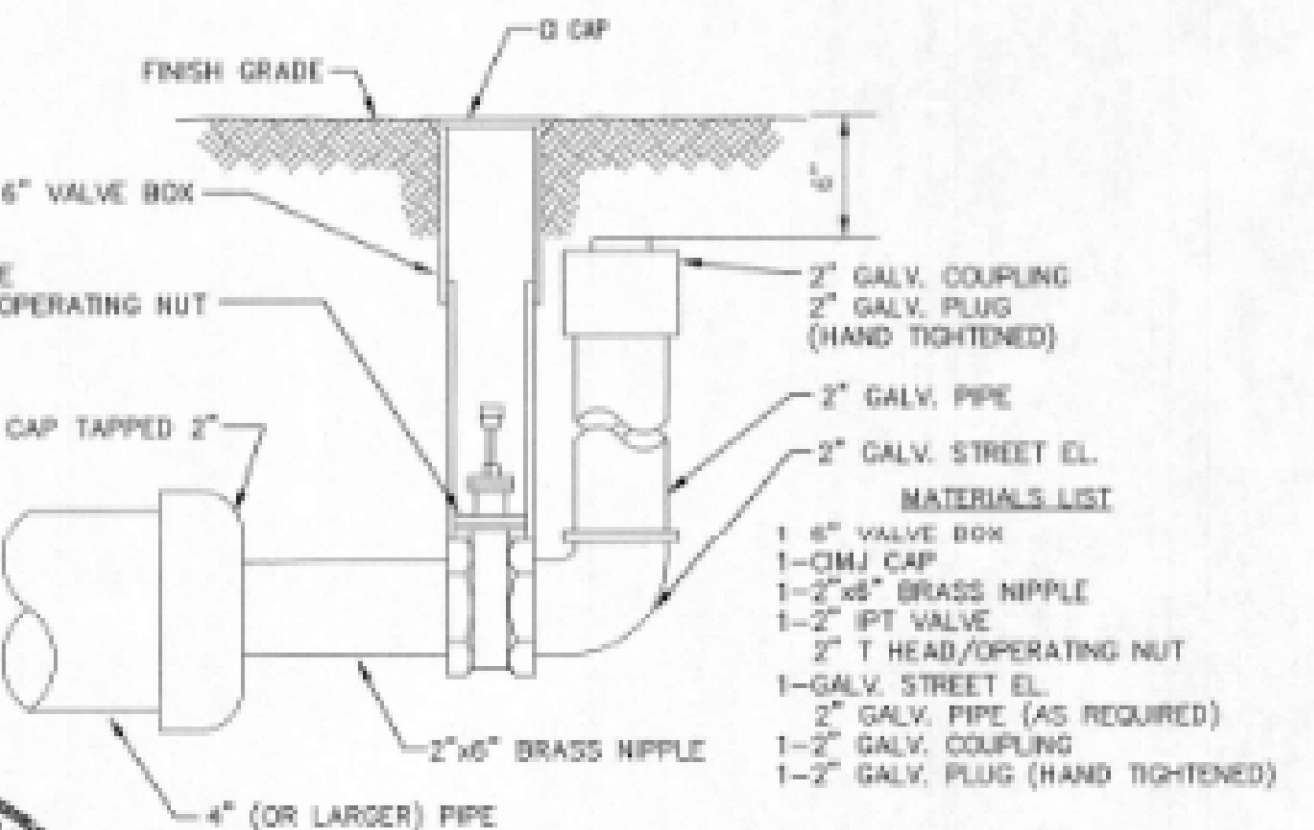


- NOTES**
- This detail covers Butterfly Valve installation, inclusive, regardless of type of pipe or joint used. 24" and larger lines to be detailed on plans.
  - 6" Valve Box and Cover required per City of Wichita Std. Specifications.
  - Conc. Support Block to be full width of trench.
- CONCRETE SUPPORT BLOCKING FOR BUTTERFLY VALVE INSTALLATION**

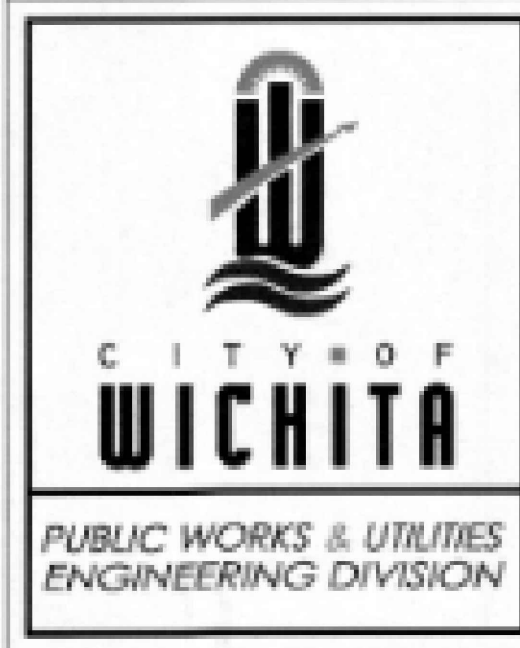


**VALVE STEM EXTENSION DETAIL**

NOTE: ONE VALVE STEM EXTENSION FOR EACH VALVE BURED GREATER THAN 5'.



**2" BLOWOFF ASSEMBLY**



REVISD: OCTOBER 2014

**STANDARD WATER ASSEMBLY DETAIL**

CITY ENGINEER  
**GARY JANZEN, P.E.**

PROJECT NUMBER	CCA NUMBER	DATE

CITY ENGINEER'S OFFICE  
CITY HALL - SEVENTH FLOOR  
455 NORTH MAIN STREET  
WICHITA, KANSAS 67202-1620  
(316) 268-4501

SHEET

REV	DESCRIPTION	DATE

**Dutch Bros PPW**

**12/1/2021**  
**BUILDING PERMIT**

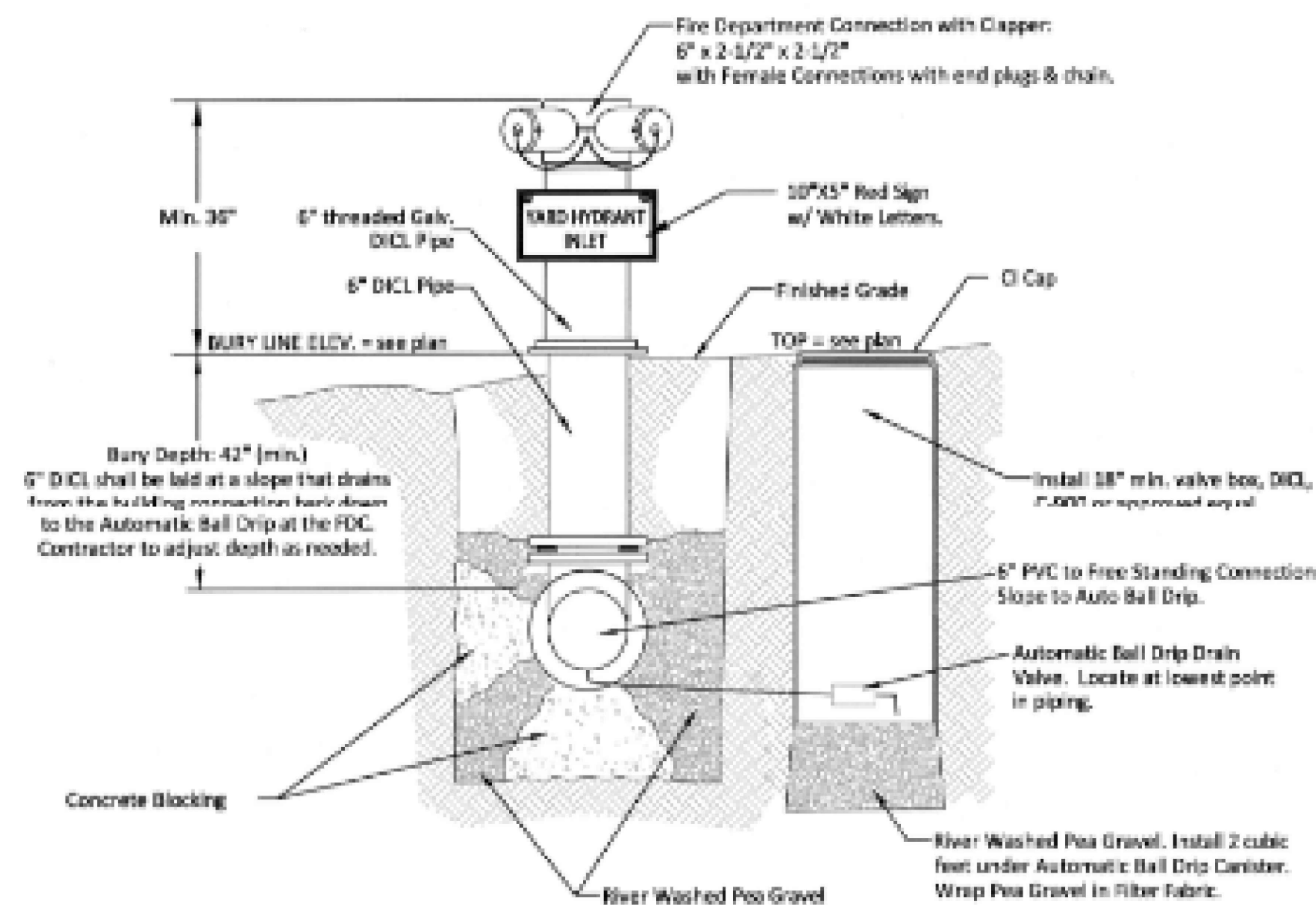
**PROJECT ADDRESS**  
WICHITA, KS 67205

**DETAILS AND SPECS**

**C5.0**

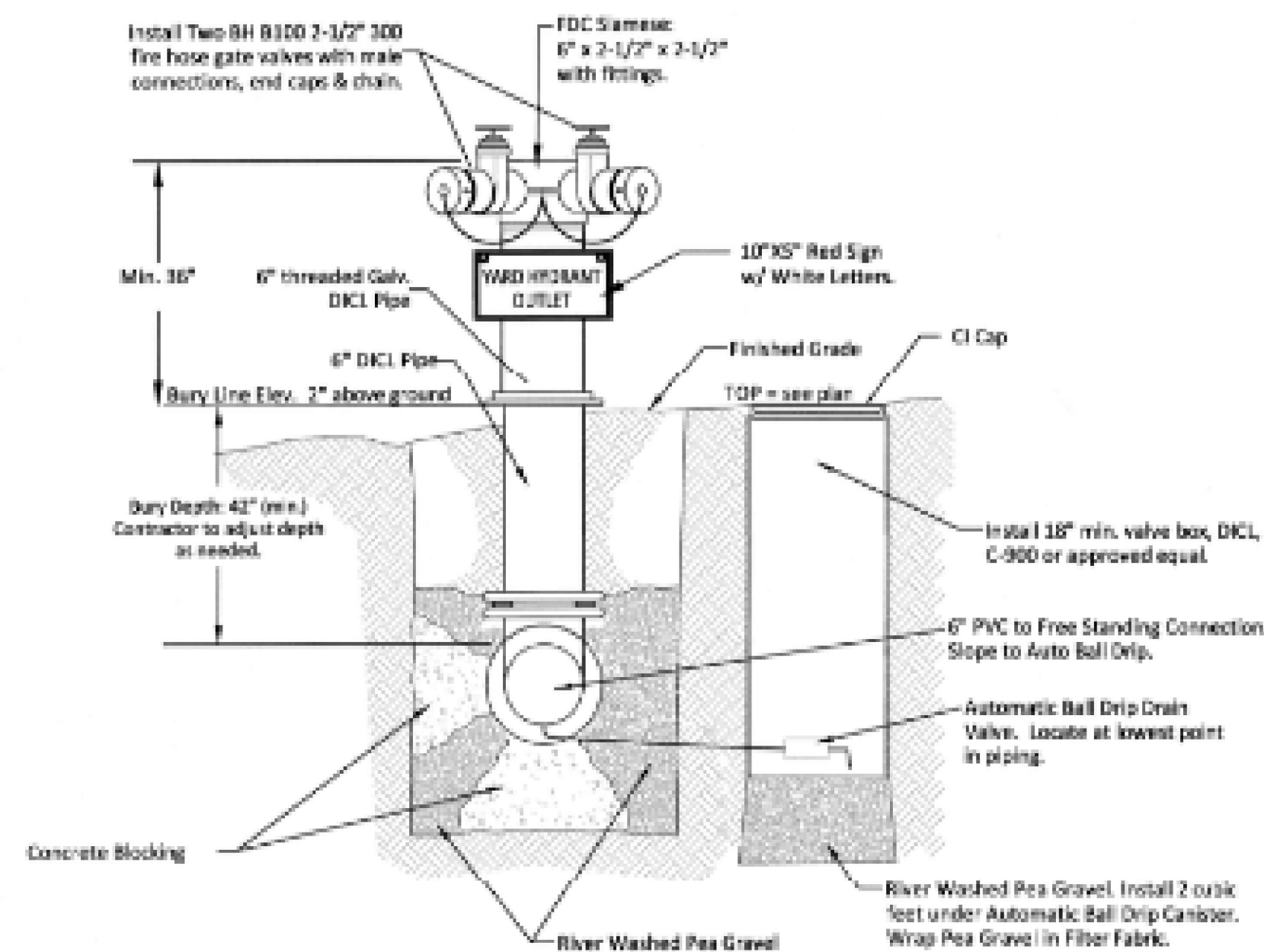
# FREE STANDING YARD HYDRANT (also called Dry Fire Line)

Inlet and Outlet to be used together to provide fire hydrant coverage on the far side of a building.



**1 FREE STANDING YARD HYDRANT INLET**  
NOT TO SCALE

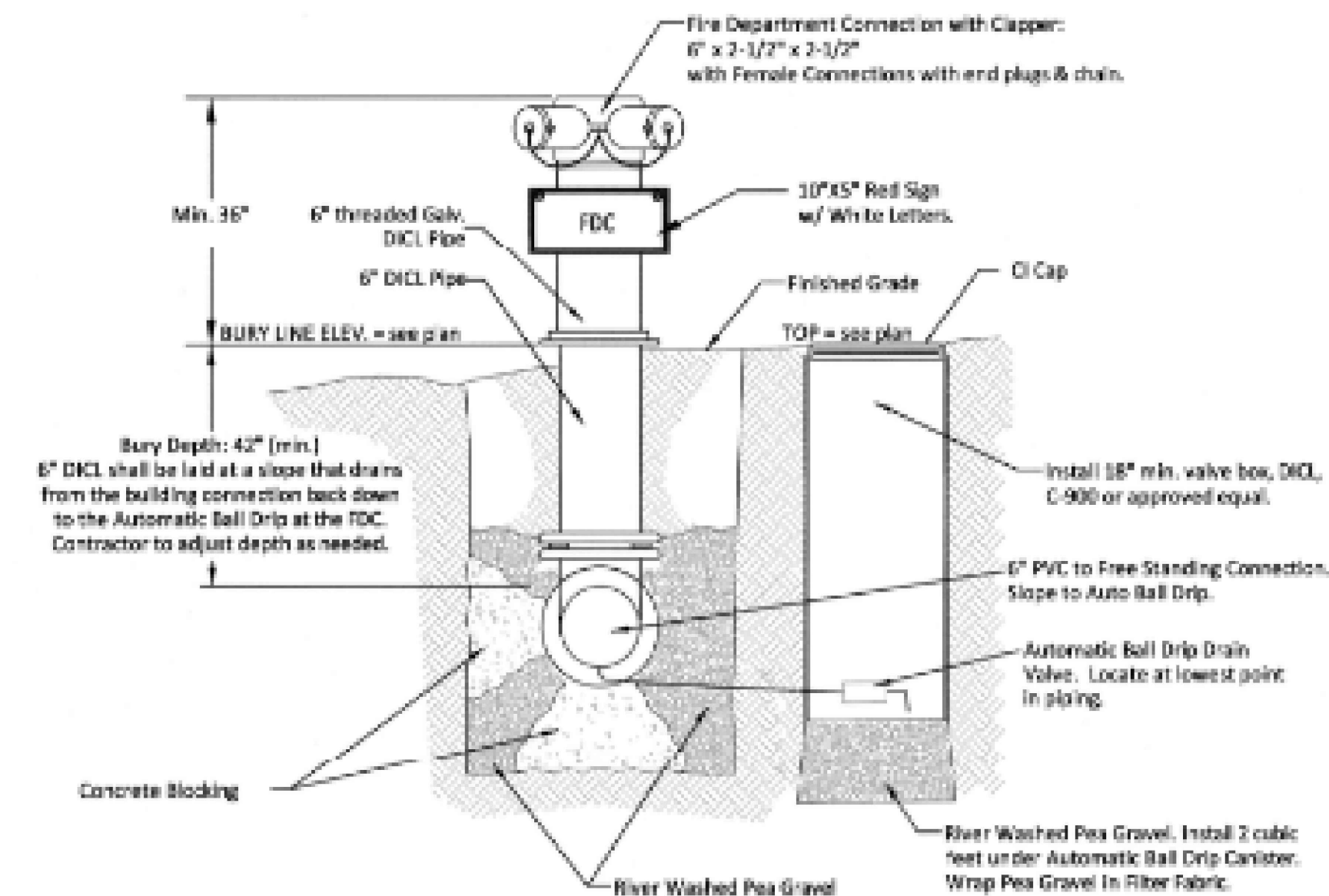
To be located within 150' of a Fire Hydrant



**2 FREE STANDING YARD HYDRANT OUTLET**  
NOT TO SCALE

# REMOTE FIRE DEPARTMENT CONNECTION

Same construction as Free Standing Yard Hydrant Inlet, with different sign. Used to boost interior sprinkler systems.

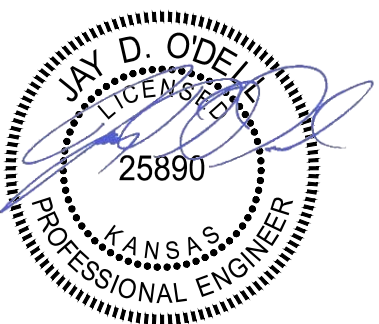


**REMOTE FIRE DEPARTMENT CONNECTION**  
NOT TO SCALE

To be located within 150' of a Fire Hydrant



<p><b>CITY OF WICHITA</b> PUBLIC WORKS &amp; UTILITIES ENGINEERING DIVISION</p>	<p>FREE STANDING YARD HYDRANT AND REMOTE FDC DETAIL</p> <p>CITY ENGINEER <b>GARY JANZEN, P.E.</b></p>	
	<p>PROJECT NUMBER</p>	<p>DATE SEPTEMBER 2019</p>
<p>CITY ENGINEER'S OFFICE CITY HALL - SEVENTH FLOOR 455 NORTH MAIN STREET WICHITA, KANSAS 67202-1620 (316) 268-4501</p>	<p>SHEET</p>	



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PROJECT ADDRESS  
WICHITA, KS 67205

DETAILS AND  
SPECS

C5.1