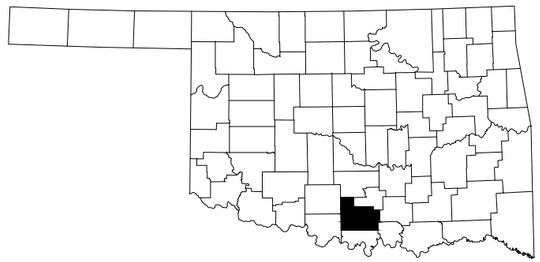
Fox Engineering, Inc.
211 E Street N.W., PO Box 666
Ardmore, Oklahoma 73401
Phone: 580.223.2319
E-mail: foxengineering@sbcglobal.net

PROPOSED CONVENIENCE STORE
KANG'S ADDITION
3RD AVE. & P ST. NE
ARDMORE, OKLAHOMA
2024

CARTER COUNTY, OKLAHOMA



R1E | R2E



Scale: 1' = 1,000'

INDEX OF SHEETS

1. TITLE SHEET
2. PAY ITEMS AND NOTES
3. DEMOLITION PLAN
4. SITE PLAN
5. EROSION CONTROL
6. MASS GRADING
7. SPOT GRADING NORTH
8. SPOT GRADING SOUTH
9. DIMENSION PLAN NORTH
10. DIMENSION PLAN SOUTH
11. SITE UTILITY PLAN
12-13. PAVING DETAILS
14. DRAINAGE DETAILS
15. UTILITY DETAILS

BEFORE YOU DIG OKIE 811 1-800-522-OKIE CALL OKIE

UTILITY STATEMENT

UNDERGROUND UTILITIES SHOWN ARE ONLY APPROXIMATE LOCATIONS. DEPICTION OF UTILITY LINES WERE DRAWN FROM EXISTING ABOVE GROUND OBJECTS SUCH AS FIRE HYDRANTS, TUG BOXES, POWER POLES, ETC. ALL LOCATIONS AND DEPTHS SHOULD BE VERIFIED BY AN 'OKIE' LOCATE AND/OR POT HOLE OF UNDERGROUND UTILITIES TO VERIFY DEPTH.

RECOMMENDED FOR APPROVAL:

JOE HOWELL 28107 REGISTERED PROFESSIONAL ENGINEER STATE OF OKLAHOMA

DATE: 12/9/2024

FOX ENGINEERING, INC.
CIVIL ENGINEERS
CERTIFICATE OF AUTHORITY NO. 5133
CERTIFICATE OF AUTHORITY EXPIRES 6-30-2026

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GENERAL CONSTRUCTION NOTES

IN ACCORDANCE WITH THE OKLAHOMA UNDERGROUND FACILITIES DAMAGE PREVENTION ACT THE CONTRACTOR SHALL NOTIFY THE OKLAHOMA ONE-CALL SYSTEM, INC. 48 HOURS PRIOR TO BEGINNING EXCAVATION. OKLAHOMA ONE-CALL SYSTEM, INC. "CALL OKIE" 1-800-522-6543 OR 811.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE INFLICTED TO THE EXISTING UTILITIES WITHIN THE PROJECT AREA AS A RESULT OF DIGGING.

THE CONTRACTOR SHALL NOT WASTE ANY EXCESS EXCAVATION UNTIL ALL PLANNED EMBANKMENTS AND BACKFILLS ARE COMPLETED. EXCESS UNCLASSIFIED EXCAVATION MATERIAL DETERMINED BY THE ENGINEER TO BE SUITABLE FOR BACKFILL SHALL BE USED TO REDUCE ANY UNCLASSIFIED BORROW NEEDED. COST OF SECOND HANDLING SHALL BE INCLUDED IN OTHER ITEMS OF WORK. ANY REMAINING EXCESS EXCAVATION SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND BE DISPOSED OF IN A MANNER APPROVED BY THE ENGINEER.

THE CONTRACTOR SHALL NOTIFY THE CITY OF ARDMORE PUBLIC WORKS, ENGINEERING DEPARTMENT, AND CODE ENFORCEMENT PRIOR TO INITIATION OF ANY CONSTRUCTION ACTIVITIES AND INFORM THEM OF THE PROPOSED WORK SCHEDULE AND OPEN A LINE OF COMMUNICATION.

PRIOR TO FINAL ACCEPTANCE, ALL FINISHED PAVEMENT SURFACES SHALL BE CLEANED OF ALL DISCOLORATION TIRE MARKS OR OTHER DISFIGUREMENT.

COST OF ITEMS SHOWN ON PLANS BUT NOT GIVEN EXPLICIT PAY ITEMS SHALL BE INCLUDED IN THE PRICE BID FOR OTHER ITEMS.

PAY ITEM NOTES

(A) PAYMENT FOR THIS ITEM WILL BE BASED ON PLAN QUANTITY ONLY.

(B) ITEM INCLUDES REMOVAL SIGN FOOTINGS, PAVEMENT DEBRIS, TREES, STUMPS, ABANDONED UTILITY APPURTENANCES, OR OTHER OBSTRUCTIONS INSIDE THE PROJECT EXTENTS.

(C) PRICE BID TO INCLUDE COST OF MAINTAINING DEVICE IN PROPER UPRIGHT POSITION, ALL NECESSARY MAINTENANCE, REMOVAL OF DEVICE, AND REMOVAL OF SEDIMENT WHEN CAPTURED.

(D) ESTIMATED QUANTITY ONLY. CONTRACTOR SHALL IMMEDIATELY NOTIFY OWNER AND ENGINEER DURING CONSTRUCTION ACTIVITIES IF ACTUAL QUANTITY PROJECTS TO EXCEED ESTIMATE

(E) PRICE BID SHALL INCLUDE THE COST OF CONSTRUCTING ALL STEPS SHOWN ON THE PLANS.

(F) QUANTITY INCLUDES SIDEWALKS/FLATWORK AGAINST BUILDING, PARKING ISLAND, STOOPS, AND SIDEWALK.

(G) TO BE USED FOR DUMPSTER PAD.

(H) PRICE BID SHALL INCLUDE AN ESTIMATED 60 TONS OF LIMESTONE SCREENINGS FOR BASE.

(I) PAY ITEM TO INCLUDE SECTIONS ALONG P ST. AND 3RD AVE. AS PART OF REPLACING DRIVE AREAS THAT WERE DEMOLISHED AND SECTIONS WITHIN THE PROJECT EXTENTS THAT ARE DEEMED FAILED OR UNABLE TO DRAIN.

(J) CONTRACTOR SHALL COORDINATE WITH THE CITY OF ARDMORE AND PROVIDE AN ESTIMATED DEMAND AND THE CITY WILL INSTRUCT CONTRACTOR WHAT SIZE METER TO PURCHASE.

(K) PRICE BID SHALL INCLUDE COST OF CLEANOUTS, ROCK BACKFILL FOR TRENCH UNDER PAVEMENT, AND ALL OTHER APPURTENANCES TO CONSTRUCT 250 LF OF PRIVATE SEWER SERVICE.

(L) PRICE BID SHALL INCLUDE COST OF ALL ITEMS SHOWN ON DETAIL INCLUDING SCREENING/FENCING, BOLLARDS, GATES, ETC.

(M) SELECT BORROW QUANTITY IS FOR A 24" THICK SOIL PAD UNDER BUILDING WITH A 6' PERIMETER OVERBUILD. UNCLASSIFIED BORROW CAN BE REDUCED IF THE CONTRACTOR ELECTS TO IMPORT MORE SELECT FROM THE SAME SOURCE.

(N) ITEM TO INCLUDE ONLY LABOR TO FORM-UP AND FINISH CURB ALONG BOUNDARY OF PAVEMENT. QUANTITY OF CONCRETE INCLUDED IN 6" REINFORCED CONCRETE PAVEMENT.

(O) ENGINEER RECOMMENDS THE USE OF A BIAXIAL GEOGRID SUCH AS THE TENSAR BX1100 UNDER THE CRUSHER RUN LIMESTONE AGGREGATE BASE.

(P) ENGINEER CAN PROVIDE A MACHINE CONTROL FILE ("MODEL") FOR USE BY THE CONTRACTOR FOR A FEE T.B.D. BILLED DIRECTLY TO CONTRACTOR. THIS MODEL CAN BE USED IN LIEU OF, OR IN ADDITION TO CONSTRUCTION STAKING OPERATIONS. COORDINATE WITH ENGINEER.

(Q) PRICE BID SHALL INCLUDE COST OF ALL FITTINGS (SUCH AS TEES, INSERTA-TEE, FERNCO BOOTS, ETC.) TO CONNECT DOWNSPOUTS FROM ROOF TO 10" DRAIN PIPE.

(R) PRICE BID SHALL INCLUDE PRICE FOR 8" THICK HEADWALL TRANSITION BETWEEN CURB AND STEPS.

SUMMARY OF PAY QUANTITIES

ITEM NO.	DESCRIPTION		UNIT	QUANT.
1	MOBILIZATION		LSUM	1.00
2	CONSTRUCTION STAKING		LSUM	1.00
3	CLEARING AND GRUBBING	(B)	LSUM	1.00
4	REMOVE CURB AND GUTTER	(D) (S)	LF	105.00
5	UNCLASSIFIED EXCAVATION	(D)	CY	2,680.00
6	UNCLASSIFIED EMBANKMENT	(D)	CY	700.00
7	SELECT BORROW	(M)	CY	460.00
8	TEMPORARY SILT FENCE	(A) (C)	LF	1,100.00
9	1-1/2" CRUSHER RUN LIMESTONE		TON	920.00
10	6" THICK REINFORCED P.C. CONCRETE PAVEMENT		SY	2,974.00
11	7" THICK REINFORCED P.C. CONCRETE PAVEMENT	(G)	SY	47.00
12	4" THICK REINFORCED P.C. CONCRETE SIDEWALK	(E)(F)(H)	SF	2,650.00
13	HANDICAP RAMP TYPE 'B'		EA.	6.00
14	2'-0" CURB AND GUTTER	(I)	LF	150.00
15	6" INTEGRAL BARRIER CURB	(N)	LF	936.00
16	8" N-12 HDPE		LF	45.00
17	10" N-12 HDPE	(Q) (R)	LF	200.00
18	15" HP STORM DUAL WALL PP PIPE		LF	100.00
19	3:1 SLOPED HEADWALL FOR 15" PIPE		EA.	3.00
20	3:1 SLOPED HEADWALL FOR 8" PIPE		EA.	1.00
21	3:1 SLOPED DETENTION POND STR.		EA.	1.00
22	PAVEMENT STRIPING		LSUM	1.00
23	SOLID SLAB SODDING		SF	25,000.00
24	4" PRIVATE SANITARY SEWER	(K)	LSUM	1.00
25	WATER METER SETTING	(J)	EA.	1.00
26	TRASH DUMPSTER ENCLOSURE	(L)	LSUM	1.00

BID ADDITIONS

	GEOGRID SUBGRADE REINFORCEMENT	(O)	SY	3,250.00
	MACHINE GRADING MODEL FILE	(P)	LSUM	1.00

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PAY ITEMS AND NOTES
PROP. CONVENIENCE STORE
KANG'S ADDITION
3RD AVE. AND P ST. NE
ARDMORE, OK 2024

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SHEET NO: 2

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ASPHALT PAVING REMOVAL

CONCRETE PAVING REMOVAL

ALREADY REMOVED STRUCTURE

NOTE: CONTRACTOR SHOULD ANTICIPATE TREE REMOVAL TO BE CUTTING, GRINDING STUMPS AND ADDING HERBICIDE TO TREES ALONG STREETS. ROOTS ARE EXPECTED TO CONFLICT WITH UNDERGROUND UTILITIES.

10' 0 10' 20' 30'

Scale: 1" = 10'

BASIS OF BEARING: OKLAHOMA STATE PLANE NAD 83

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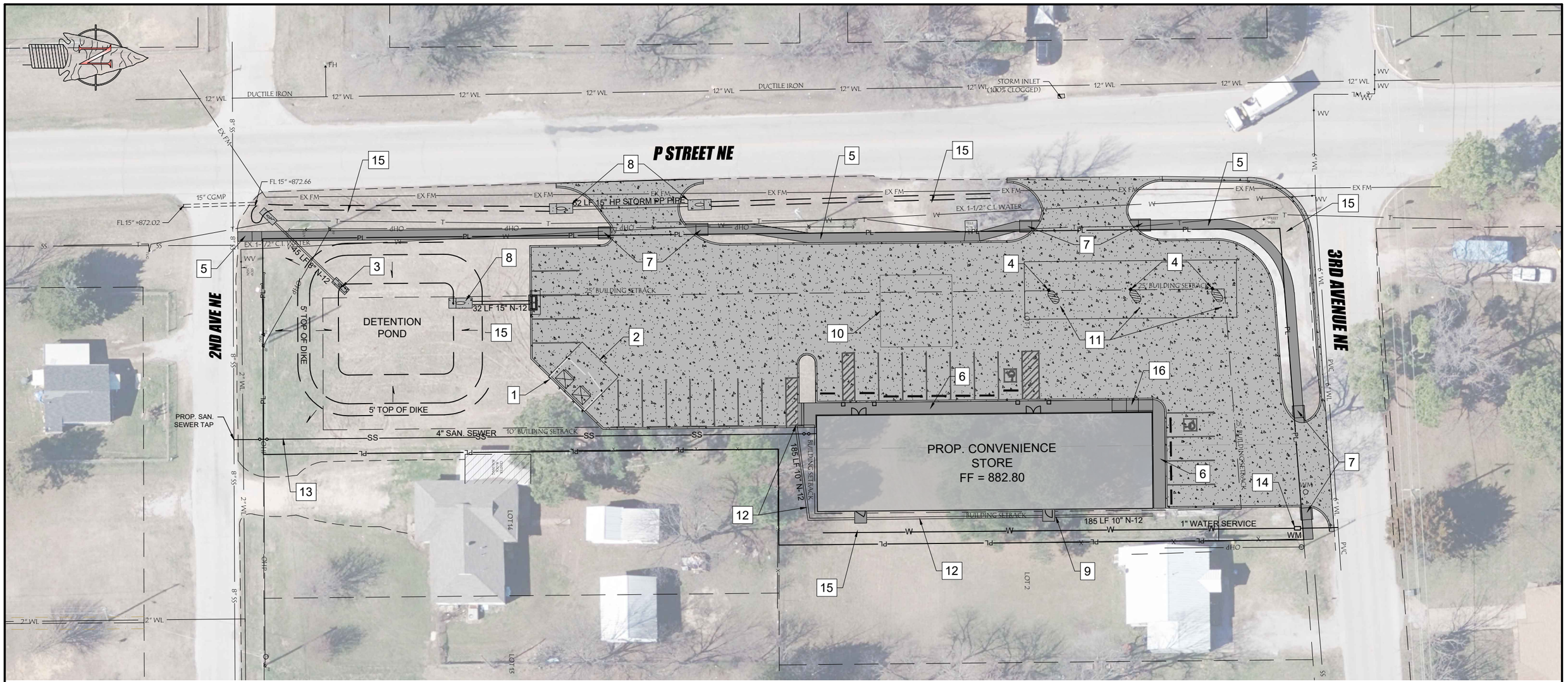
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DEMOLITION PLAN
PROP. CONVENIENCE STORE
KANG'S ADDITION
3RD AVE. AND P ST. NE
ARDMORE, OK 2024

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PROJ. NO:	3



20' 0 20' 40' 60'

Scale: 1" = 20'

BASIS OF BEARING: OKLAHOMA STATE PLANE NAD 83

NOTE:

1. PROPOSED DUMPSTER ENCLOSURE. (SEE DETAIL)
2. HEAVY DUTY CONCRETE SECTION. (SEE SHEET 12 FOR DETAIL)
3. DISCHARGE STRUCTURE (SEE SHEET 14 FOR DETAIL)
4. PROPOSED FUEL PUMPS AND CANOPY COLUMNS. (BY OTHERS)
5. PROPOSED 4'-0" SIDEWALK.
6. PROPOSED 5.0' SIDEWALK. (SEE SHEET 12 FOR DETAIL)
7. TYPE 'B' HANDICAP RAMP. (SEE SHEET 13 FOR DETAIL)
8. 3:1 SLOPED HEADWALL (SEE DETAIL, SHEET 14)
9. PROPOSED 5.0'x5.0' CONCRETE STOOP.
10. PROPOSED UNDERGROUND FUEL STORAGE TANKS. (BY OTHERS)
11. PROPOSED PIPE BOLLARDS. (SEE SHEET 12 FOR DETAIL)
12. 10" N-12 HDPE PIPE W/ DOWNSPOUT TIE-INS TO DRAIN ROOF & DISCHARGE TO SURFACE AT STEPS (SEE DETAIL SHT. 14)
13. 4" SAN. SEWER SERVICE
14. NEW WATER SERVICE
15. SOLID SLAB SODDING
16. TYPE 'D' HANDICAP RAMP

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SITE PLAN
PROP. CONVENIENCE STORE
KANG'S ADDITION
3RD AVE. AND P ST. NE
ARDMORE, OK 2024

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STORM WATER MANAGEMENT, EROSION AND SEDIMENT CONTROL

GENERAL

This sheet outlines requirements to be followed by the Contractor during all phases of the project. Please note that this construction will be accomplished under the provisions of a general NPDES permit issued by the U.S. Environmental Protection Agency. A Storm Water Pollution Prevention Plan (SWPPP) WILL BE REQUIRED for this project. The Contractor will be responsible for compliance with the NPDES permit and the SWPPP, as well as with all provisions of these plans and specifications. The Contractor will also be responsible to prevent soil or sediment loss from the construction site and cannot leave the site until all erosion control, sediment control and storm water management practices are in place, inspected and have been found to be satisfactory, and all temporary practices have been properly removed.

STORM WATER MANAGEMENT

The erosion and sediment control measures discussed below will provide some temporary storm water controls. During the course of construction, the Contractor will install and maintain storm water controls in the sequence specified herein to provide the maximum management of storm water feasible for a project of this nature. The recommended sequence of installation of storm water control measures is as follows: Perimeter control measures (silt fencing, silt logs, straw waddles, bale protection), site grading, final paving, and removal of temporary erosion control devices.

EROSION AND SEDIMENT CONTROL

The project has also been designed to minimize adverse off-site effects of soil erosion and resulting sediment loss through the use of proper construction techniques and by installing both temporary and permanent management practices. All soil disturbing activities performed by the Contractor will be accomplished in such a manner as to prevent the loss of sediment from the construction site during rainfall events. To accomplish this the following specific steps will be taken during construction.

1. Immediately after mobilization and prior to initiating any soil disturbing activities, the Contractor will install all specified perimeter controls on the site. These practices have been designed to trap any sediment produced during soil disturbed activities and to prevent off-site damage. It is recognized that some minor site preparation may be required to properly install these practices.
2. The recommended sequence for the installation and removal of erosion and sediment control measures is as follows: Perimeter control measures (hay bales and silt fencing), gravel construction entrance(s), site grading, including temporary slope stabilization as needed, paving, final grading, installation of grass, removal of temporary practices, and removal of perimeter controls and site cleanup.
3. During all soil disturbing activities, the Contractor will take appropriate steps using accepted construction methods to minimize the time of exposure of unprotected soil and other construction materials to rainfall. Particular care must be exercised when dealing with stockpiles of topsoil or fill materials and with soil on slopes. The Contractor will maintain a log of the dates of all major grading and soil disturbance activities and of the installation of all management practices or control measures.
4. If during the course of construction any area of soil, including stockpiles, will remain exposed without suitable erosion control measures for more than 14 calendar days temporary stabilization measures should be installed unless further soil disturbing activities are planned on such areas within an additional 7 calendar days. Suitable temporary soil stabilization measures are considered to be perimeter controls (such as hay bale barriers) along all sideslope and downslope borders of the disturbed area. Please note that, depending an the site perimeter controls alone may not be successful, since large amounts of sediment produced by a heavy rain on exposed soil could overwhelm such measures.
5. At the Contractor's discretion, additional temporary erosion control practices (such as hay bale barriers or silt fences) may be installed along any downslope and sideslope perimeter of areas disturbed during earth-moving operations to prevent unnecessary sediment movement. Anchored erosion control matting, mulches or other acceptable methods may also be installed at the Contractor's discretion to stabilize any unprotected slopes during construction and hold them to final grade. As site conditions warrant, the Contractor may also choose to modify the type or arrangement of specified practices to improve their effectiveness. As with any other project changes, the Contractor must present any such proposed modifications to the Engineer for approval prior to installation.
6. The Contractor will inspect all specified practices at least once every week and after all rainfall events to insure that the integrity of each practice is intact. Any damage noted during such inspections will be promptly repaired to restore the practice to its original specifications. The Contractor will be responsible for maintenance of all erosion and sediment control practices specified in these plans, including periodic re-grading as needed and final grading after removal of each sediment control measure.
7. When water is used for dust control, or to propagate grass, care should be exercised to prevent the escape of this water and any sediment it may carry from the construction site.
8. Care must also be exercised to prevent excessive off-site tracking of mud or sediment by construction vehicles. In addition to the specified graveled entrance, properly graveled transition areas should be established at all temporary site exits to assist in mud removal from departing vehicles. Contractor shall be responsible for washing down the street as directed by the City when mud is tracked onto street from construction site.
9. During the final site clean-up prior to the possession date, each temporary practice will be completely intact and functioning.

EQUIPMENT MAINTENANCE AND REPAIR

Maintenance and repair of construction machinery and equipment must be confined to areas specifically designated for that purpose. such designated areas must be located and designed so that oils, gasoline, grease, solvents, and other potential pollutants cannot be washed directly into receiving streams or storm water conveyance systems. these areas must be provided with adequate waste disposal receptacles for liquid as well as solid waste. maintenance areas should be inspected and cleaned daily. On a construction site where designated equipment maintenance areas are not feasible, care must be taken during each individual repair or maintenance operation to prevent potential pollutants from becoming available to be washed into streams or conveyance systems. temporary waste disposal receptacles must be provided.

WASTE COLLECTION AND DISPOSAL

A plan shall be formulated for the collection and disposal of waste materials on a construction site. such a plan must designate locations for trash and waste receptacles and establish a special collection schedule. methods for ultimate disposal of waste must be specified and carried out in accordance with applicable local, state and federal health and safety regulations. special provisions must be made for the collection and disposal of liquid wastes and toxic or hazardous materials. Receptacles and other waste collection areas must be kept neat and orderly to the extent possible. waste should not be allowed to overflow its container or accumulate for excessively long periods of time. trash collection points must be located where they will least likely be affected by concentrated storm water runoff.

WASHING AREAS

Vehicles such as cement or dump trucks and other construction equipment must not be washed at locations where the runoff will flow directly into a watercourse or storm water conveyance system. special areas must be designated for washing vehicles. these areas should be located where the wash water will spread out and evaporate or infiltrate directly into the ground, or where the runoff can be collected in a temporary holding or seepage basin. wash areas must have gravel or rock bases to minimize mud generation.

STORAGE OF CONSTRUCTION MATERIALS, CHEMICALS, ETC.

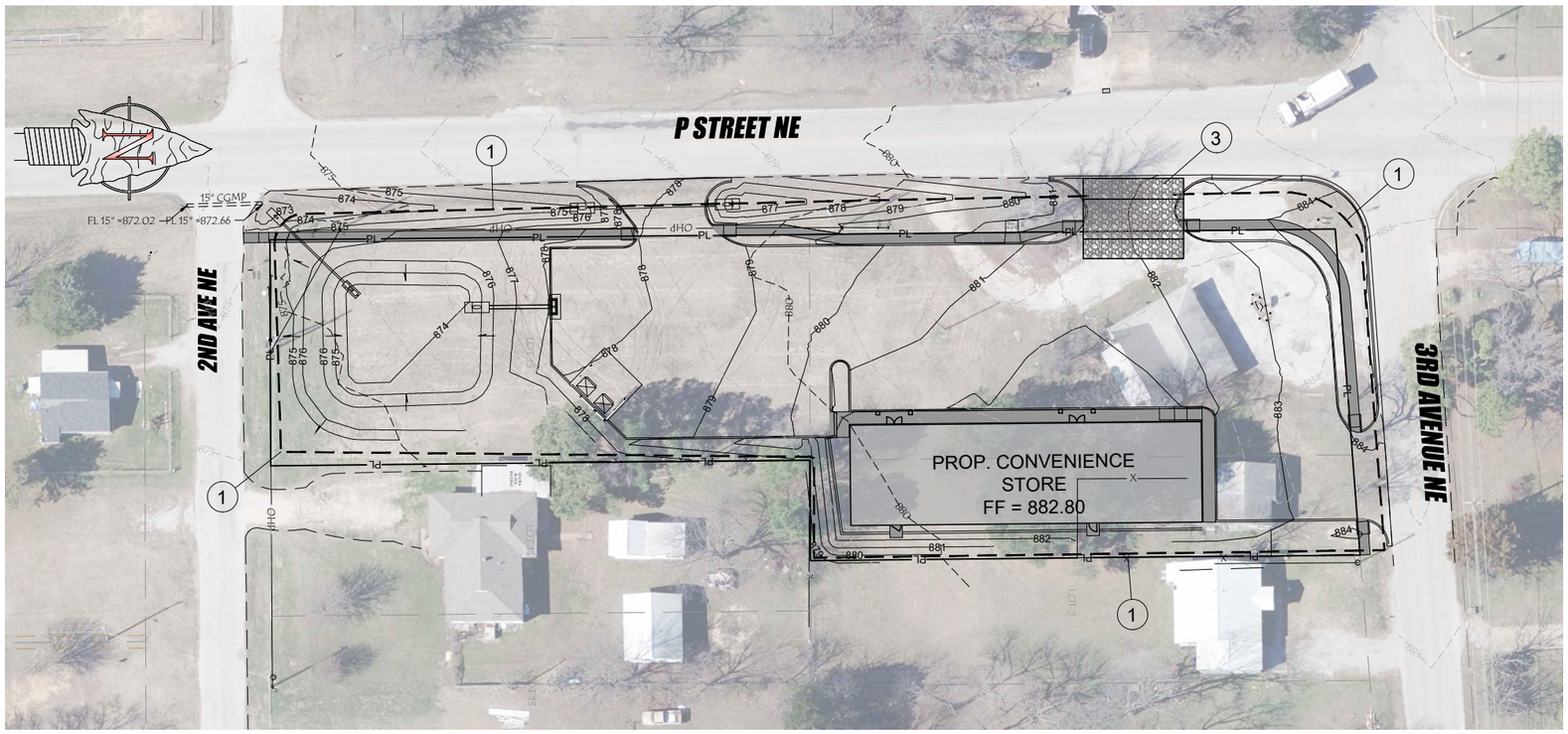
Sites where chemicals, cements, solvents, paints, or other potential water pollutants are to be stored, must be isolated in areas where they will not cause runoff pollution. Toxic chemicals and materials, such as pesticides, paints, and acids must be stored in accordance with manufacturers' guidelines. groundwater resources must be protected from leaching by placing a plastic mat, packed clay, tar paper, or other impervious materials on any areas where toxic liquids are to be opened and stored.

DEMOLITION AREAS

Demolition projects usually generate large amounts of dust with significant concentrations of heavy metals and other toxic pollutants. dust control techniques shall be used to limit the transport of the airborne pollutants. however, water or slurry used to control dust must be retained on the site and not be allowed to run directly into watercourses or storm water conveyance systems.

SANITARY FACILITIES

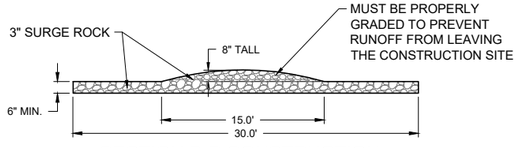
All construction sites must be provided with adequate sanitary facilities for workers in accordance with applicable health regulations.



30' 0 30' 60' 90'

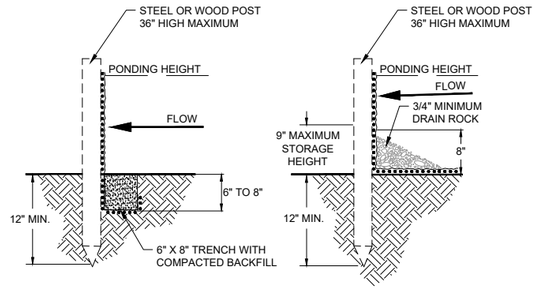
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3 SECTION B-B CONSTRUCTION ACCESS APRON

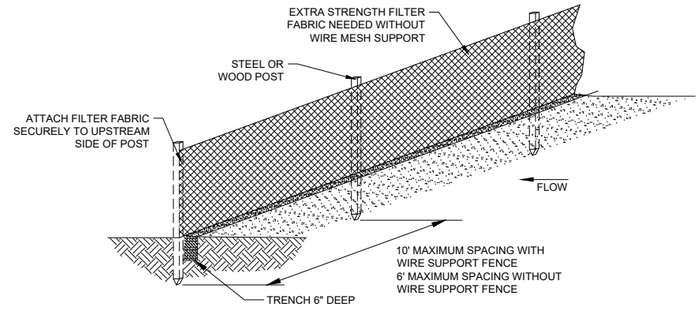
1. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC ROADWAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO PUBLIC RIGHT-OF-WAY MUST BE REMOVED IMMEDIATELY.
2. DRAINAGE - ENTRANCE MUST BE PROPERLY GRADED OR INCORPORATE A DRAINAGE SWALE TO PREVENT RUNOFF FROM LEAVING THE CONSTRUCTION SITE.



TRENCH DETAIL

INSTALLATION WITHOUT TRENCHING

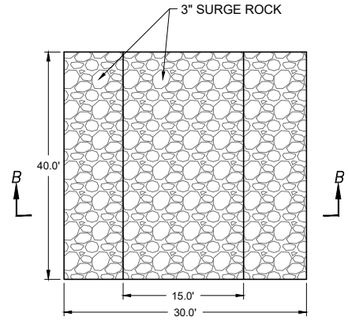
SILT FENCE



1 SILT FENCE INSTALLATION

NOTE

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



CONSTRUCTION ACCESS PLAN

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EROSION CONTROL
PROP. CONVENIENCE STORE
KANG'S ADDITION
3RD AVE. AND P ST. NE
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P STREET NE

3RD AVENUE NE

2ND AVE NE

DETENTION POND

5' TOP OF DIKE

PROP. CONVENIENCE STORE
FF = 882.80

PROP. SAN. SEWER TAP

4" SAN. SEWER

32 LF 15" N-12

185 LF 10" N-12

1" WATER SERVICE

STORM INLET (100% CLOGGED)

FL 15" =872.66

FL 15" =872.02

15" CGMP

12" WL DUCTILE IRON

EX. 1-1/2" C.I. WATER

LOT 14

LOT 13

LOT 12

LOT 2

LOT 3

Scale: 1" = 20'

BASIS OF BEARING: OKLAHOMA STATE PLANE NAD 83

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MASS GRADING
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KANG'S ADDITION
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PROJ. NO:	6

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MATCH EXISTING PAVEMENT

2' DITCH BOTTOM

PROPOSED CURB AND GUTTER SECTION
SHALL CLOSELY MATCH EXISTING
PAVEMENT WHILE ENSURING ALL POINTS
IN GUTTER EFFECTIVELY DRAIN

STREET SIGN

TELE BOX

PROP. CONVENIENCE
STORE
FF = 882.80

STEPS AND
HEADWALL
(SEE DETAIL)

ZERO CURB

185 LF 10" N-12

PIPE FL = 880.30

PIPE FL = 880.59

PIPE FL = 881.24

1" WATER SERVICE

S89°48'11"W 40.00'

S0°34'49"E 219.03'

N85°36'25"E 130.29'

MATCH EXISTING PAVEMENT

3RD AVENUE NE

10' 0 10' 20' 30'

Scale: 1" = 10'

BASIS OF BEARING: OKLAHOMA STATE PLANE NAD 83

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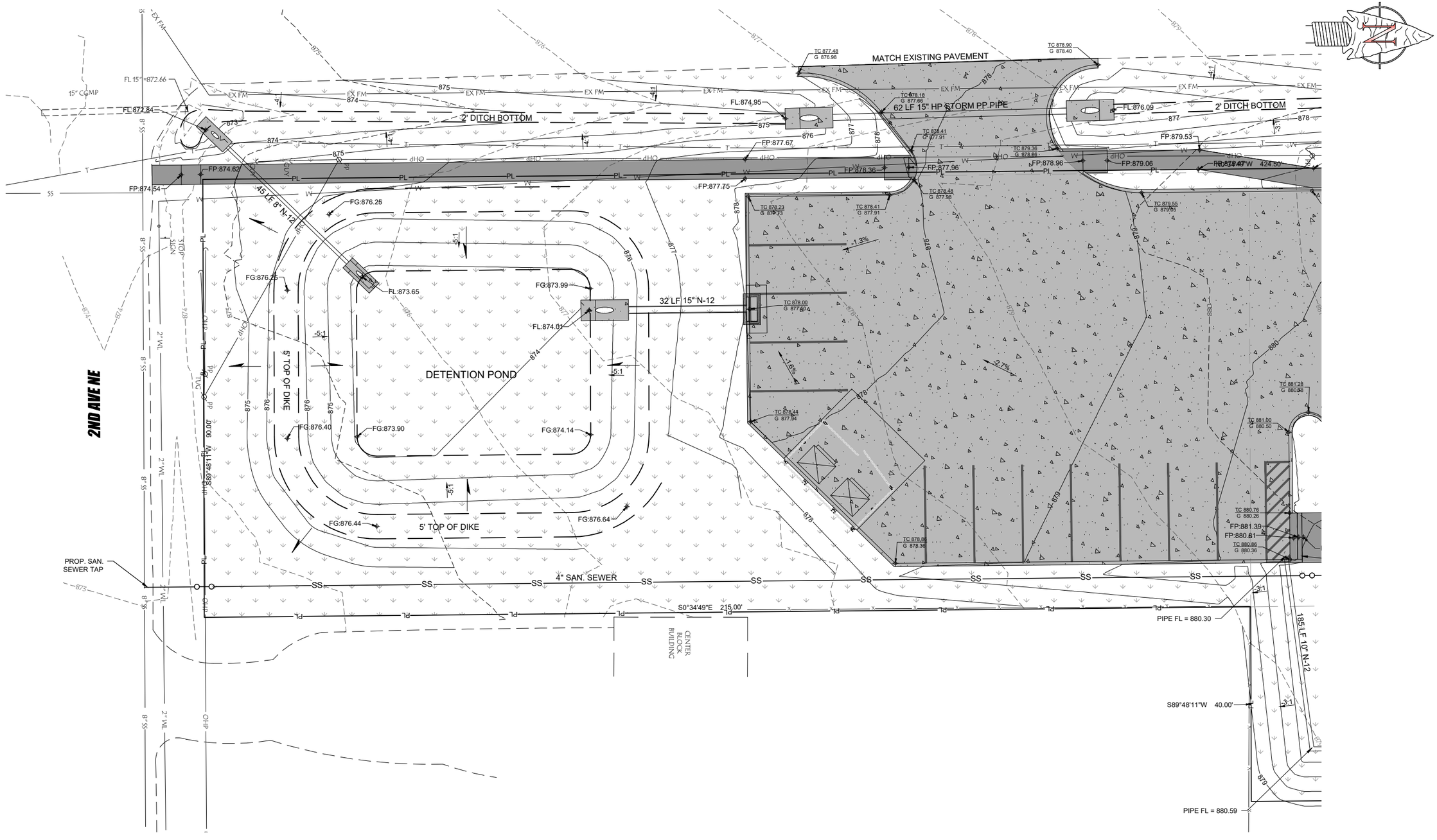
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Web: foxengineeringok.com

CERTIFICATE OF AUTHORIZATION NO. 5133
CERTIFICATE OF AUTHORIZATION EXPIRES 6-30-2026

SPOT GRADING NORTH
PROP. CONVENIENCE STORE
KANG'S ADDITION
3RD ST. AND P ST. NE
ARDMORE, OK 2024

DATE:	
Rev #	Revision Date/Description
PROJ. PHASE:	SHEET NO.
PROJ. NO:	7

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10' 0 10' 20' 30'

Scale: 1" = 10'

BASIS OF BEARING: OKLAHOMA STATE PLANE NAD 83

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ARDMORE - OKLAHOMA
CERTIFICATE OF AUTHORIZATION NO. 5133
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SPOT GRADING SOUTH
PROP. CONVENIENCE STORE
KANG'S ADDITION
3RD ST. AND P ST. NE
ARDMORE, OK 2024

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Rev #	Revision Date/Description
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PROJ. NO:	8

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P STREET NE

3RD AVENUE NE

2' DITCH BOTTOM

N0°34'49"W 424.50'

PROP. CONVENIENCE
STORE
FF = 882.80

STEPS AND
HEADWALL
(SEE DETAIL)

S89°48'11"W 40.00'

S0°34'49"E 219.03'

N85°25'51"E 130.29'

TYPICAL HANDICAP PARKING
SYMBOL

WHITE
SYMBOL

BLUE
BACKGROUND

Scale: 1" = 10'

BASIS OF BEARING: OKLAHOMA STATE PLANE NAD 83

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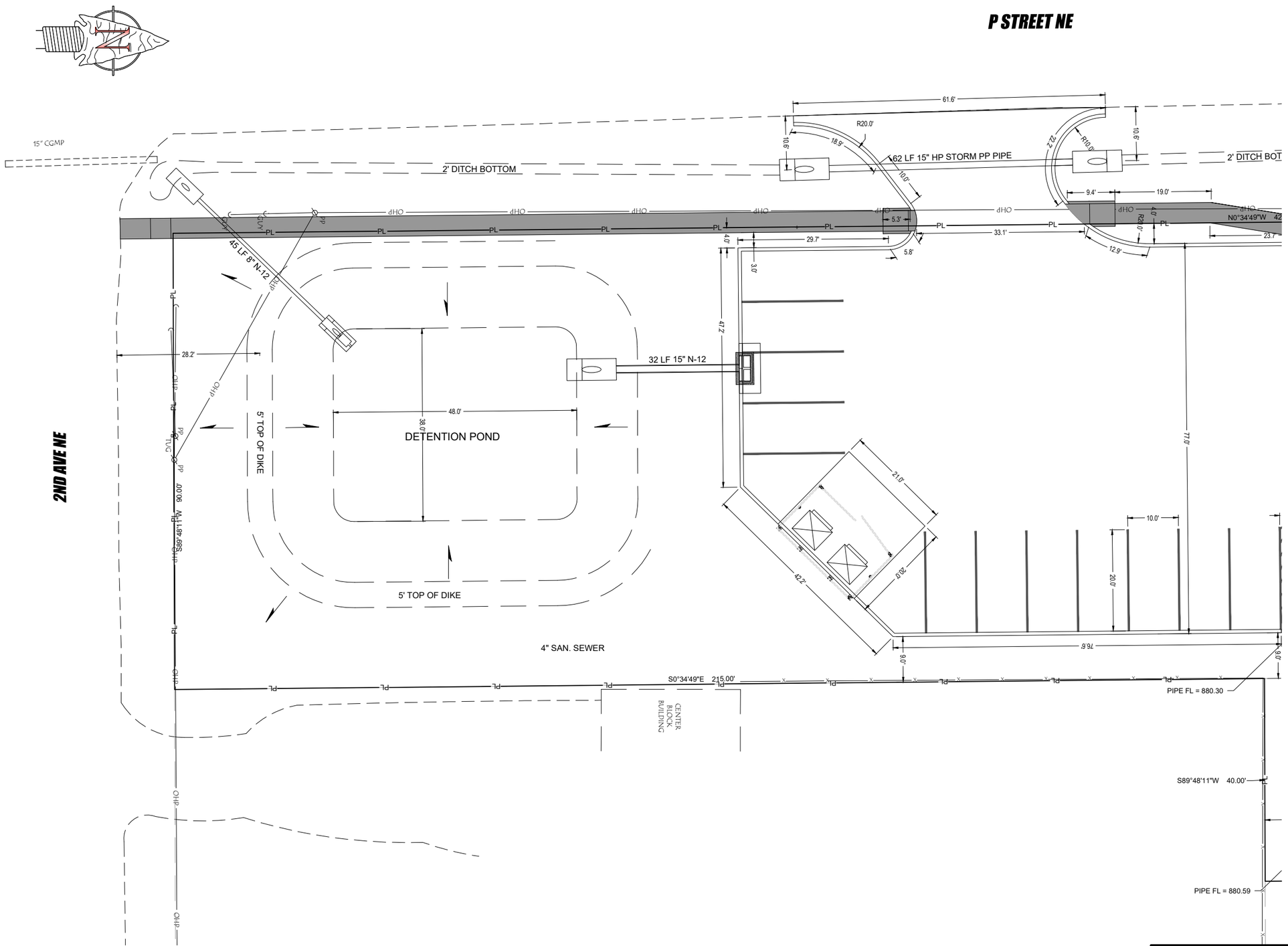
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DIMENSION PLAN NORTH
PROP. CONVENIENCE STORE
KANG'S ADDITION
3RD AVE. AND P ST. NE
ARDMORE, OK 2024

DATE:	
Rev #	Revision Date/Description
PROJ. PHASE:	SHEET NO:
PROJ. NO:	9

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GENERAL STRIPING NOTES

1. PAINT SHALL BE USED ON PAVEMENTS. THERMOPLASTIC TAPE IS NOT PERMITTED WITHOUT CONSENT OF OWNER AND CITY OF ARDMORE.
2. GLASS BEADS SHALL NOT BE REQUIRED IN PAINT.
3. ALL PARKING LANE YELLOW STRIPING SHALL BE 4" WIDE.
4. STRIPING OF ALL HANDICAP PARKING SHALL INCLUDE BLUE PAINT FOR EDGE OF STALL LANES AND ON CURB ACROSS WIDTH OF STALL.
5. CONTRACTOR SHALL BE REQUIRED TO MEET ALL AMERICAN DISABILITY ACT CODES AND SPECIFICATIONS IN REGARD TO STRIPING.

ENGINEER'S NOTES

1. DIMENSIONS SHOWN ARE FROM BACKS OF CURBS.
2. STRIPING SPACING SHALL MEET REQUIREMENTS OF THE CITY OF ARDMORE'S UNIFIED CODE. STALLS SHALL BE 10' X 20'.
3. CONTRACTOR IS URGED TO HAVE BUILDING & PARKING LOT STAKED BY SURVEYOR OR ENGINEER.

10' 0 10' 20' 30'

Scale: 1" = 10'

BASIS OF BEARING: OKLAHOMA STATE PLANE NAD 83

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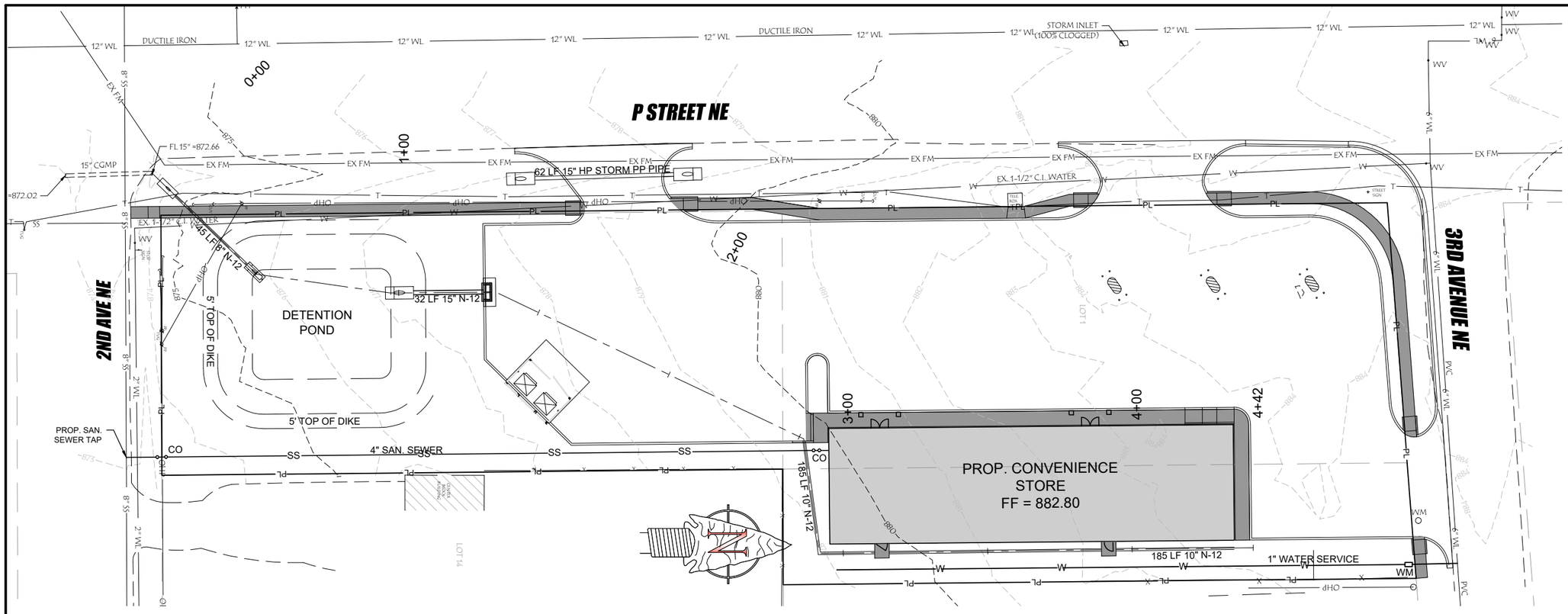
ARDMORE - OKLAHOMA

CERTIFICATE OF AUTHORIZATION NO. 5133
CERTIFICATE OF AUTHORIZATION EXPIRES 6-30-2026

DIMENSION PLAN SOUTH
PROP. CONVENIENCE STORE
KANG'S ADDITION
3RD AVE. AND P ST. NE
ARDMORE, OK 2024

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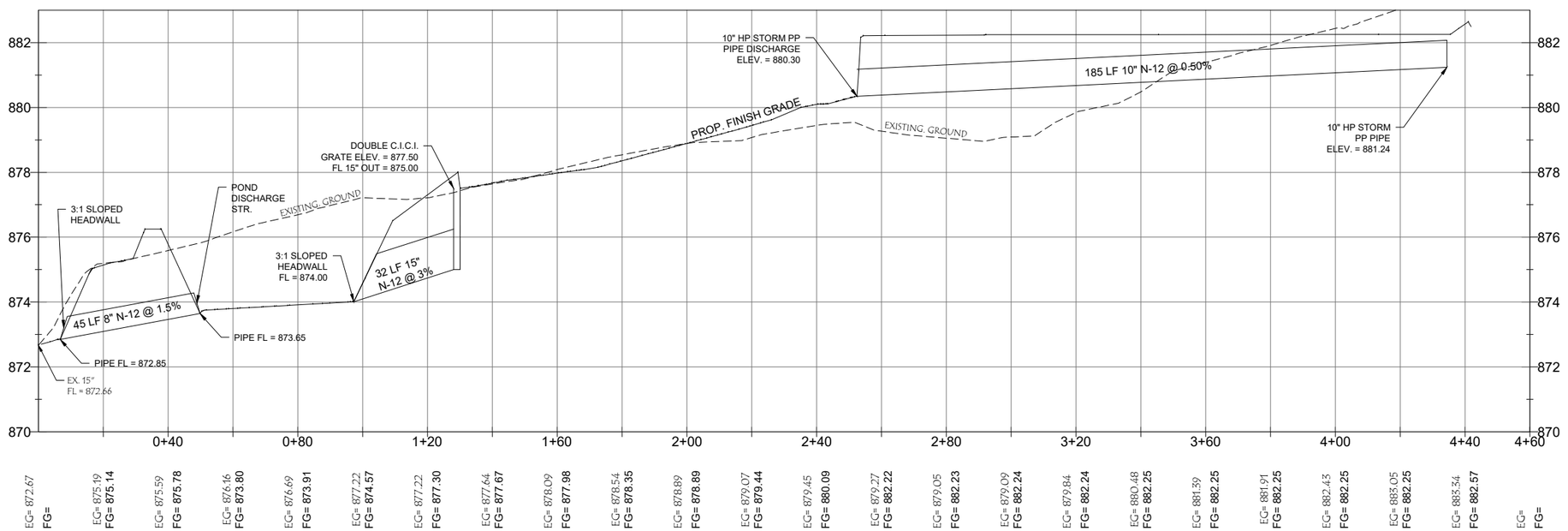


20' 0 20' 40' 60'

Scale: 1" = 20'

BASIS OF BEARING: OKLAHOMA STATE PLANE NAD 83

STORM SEWER PROFILE



SANITARY SEWER ITEMS OF WORK

THERE IS AN 8" CITY OF ARDMORE GRAVITY SEWER LINE ON THE NORTH SIDE OF 2ND AVE., ALONG THE PROPERTY LINE. COORDINATE WITH CITY FOR 4" SERVICE LINE TAP. EXTEND 4" SERVICE FROM TAP TO NEW BUILDING, 6 FT.OFF OF THE EAST PROPERTY LINE.

DOUBLE CLEAN-OUTS SHALL BE INSTALLED 5' OUTSIDE THE BUILDING AND AT THE PROPERTY LINE/STREET RIGHT-OF-WAY. TRENCHES SHALL BE 100% AGGREGATE BACKFILL.

POTABLE WATER ITEMS OF WORK

EXISTING METER IS LOCATED WITHIN THE PROPOSED NEW NORTH DRIVE. REMOVE METER AND BOX AND CAP LINE.

AN EXISTING 6" WATER LINE IS PRESENT ALONG THE SOUTH SIDE OF 3RD. AVE. COORDINATE WITH CITY OF ARDMORE PUBLIC WORKS FOR LOCATION AND SIZE OF NEW METER(S). PROPOSED LOCATION SHOWN.

ELECTRIC ITEMS OF WORK

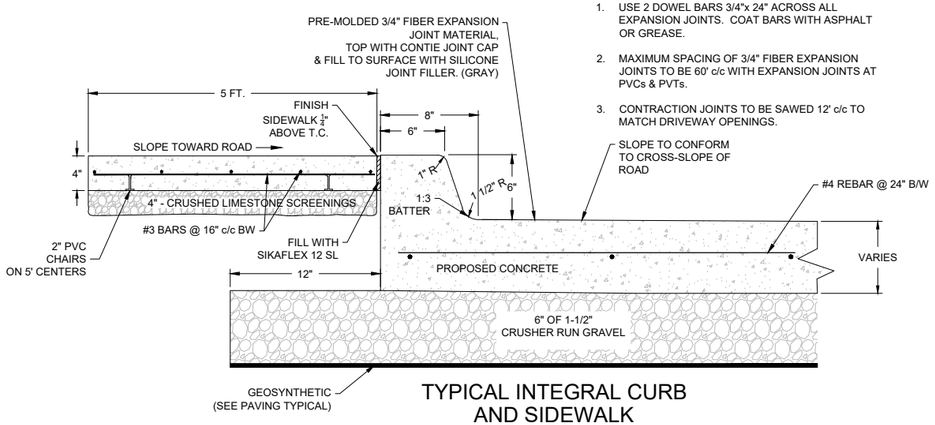
OWNER OR CONTRACTOR/OWNER'S REPRESENTATIVE SHALL COORDINATE WITH OG&E FOR POWER SUPPLY TO BUILDING. OG&E WILL DETERMINE POWER FEED LOCATION AND TRANSFORMER LOCATION (IF REQUIRED)

GAS ITEMS OF WORK

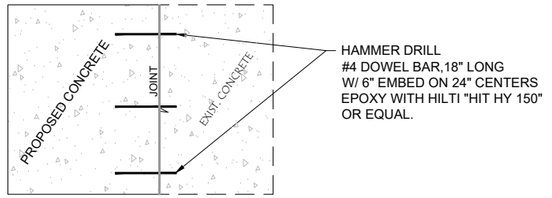
IF REQUIRED BY OWNER. COORDINATE W/ GAS COMPANY TO DELIVER NATURAL GAS SUPPLY TO BUILDING.

NOTE:

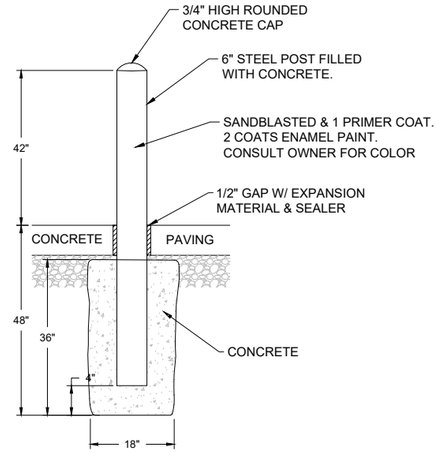
1. USE 2 DOWEL BARS 3/4"x 24" ACROSS ALL EXPANSION JOINTS. COAT BARS WITH ASPHALT OR GREASE.
2. MAXIMUM SPACING OF 3/4" FIBER EXPANSION JOINTS TO BE 60' c/c WITH EXPANSION JOINTS AT PVCs & PVTs.
3. CONTRACTION JOINTS TO BE SAWED 12' c/c TO MATCH DRIVEWAY OPENINGS.



TYPICAL INTEGRAL CURB AND SIDEWALK



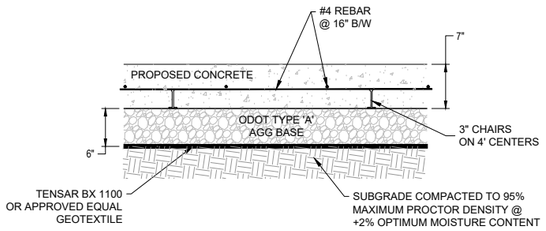
CONCRETE CONNECTION DETAIL



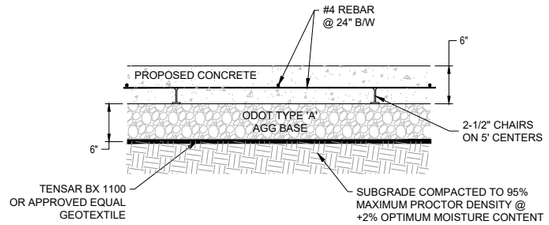
BOLLARD DETAIL

GENERAL NOTES

1. Excess excavation and all concrete and asphalt pavement to be removed from site shall be the property of and be disposed of by the contractor. Removal of existing pavement, concrete curb, headwalls, concrete ditch liner and other removal items called for on the plans shall not be paid for separately, but shall be included in the price bid for other items of work.
2. Concrete & asphalt shall be removed to a straight and even joint or shall be sawed on a line to provide straight, even connection. The cost shall be included in other items of work.
3. The contractor shall take care not to damage existing utility lines, drainage structures, driveways, sidewalks, poles or any other structures adjacent to the work area. The contractor shall be responsible for verifying the existence and location of underground utilities and obstructions, WHETHER SHOWN ON THE PLANS OR NOT and shall be responsible for the protection thereof. Compliance with the warning and barricade sign specification will be required.
4. All concrete shall contain 6 sacks (564 LBS) of cement per cu. yd. and obtain a 28 day compressive strength of 4,000 PSI.
5. During compaction of subgrade to 95% proctor density; if soft material is encountered; and required compaction cannot be achieved, this area shall be removed and replaced with other select material.
6. Silicone Sealant shall be gray and meet the requirements of current Federal specifications TT-S-001543 for Class A Sealants. The self-leveling silicone sealant (gun grade for curbs) shall be furnished in a one part silicone formulation. Acetic acid cure sealants are not acceptable.
7. All dowel bars shall be anchored with 'CONSPEC' SpecBond 101 or Equal.
8. O.D.O.T. Type 'A' Agg. Base meets specs of 1-1/2" Crusher Run Gravel.
9. All sidewalks shall be constructed of 4" P.C. concrete with steel reinforcement having 4" limestone screenings for a base.
10. Structures will be paid for at the lump sum bid for each structure which shall include all structural excavation, backfilling concrete, reinforcing steel, grates, frames and other incidental items called for on the plans and necessary for the completed structure.
11. The contractor shall protect all drainage structures from damage during construction activities.
12. HDPE storm pipe shall be backfilled to a point 1 ft. above the pipe with crushed limestone screenings, except that backfill under pavement shall be limestone screenings full depth.
13. Shop drawings for reinforcing steel and castings are required.
14. Soil used to backfill behind curbs shall be a good sandy clay or top soil, for the top 4 inches.
15. The contractor shall deliver to the Inspector all delivery tickets indicating quantity or weight of asphalt and concrete when delivered to the job.
16. Call OKIE before digging - 1-800-522-6543.



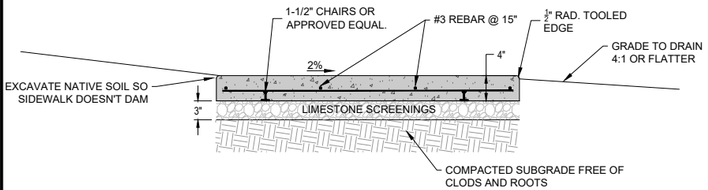
TYPICAL SECTION
CONCRETE DUMPSTER PAD



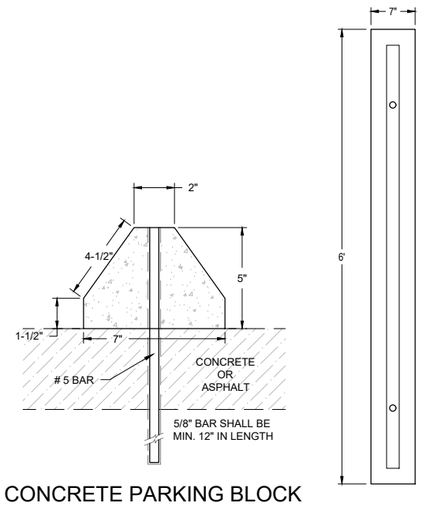
TYPICAL SECTION
6" P.C. CONCRETE PAVING

NOTE:

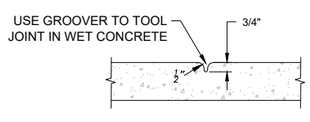
1. USE DOWEL BARS 3/4"x 24" ACROSS ALL EXPANSION JOINTS. COAT BARS WITH GREASE.
2. SEE JOINT LAYOUT SHEET FOR JOINT SPACING
3. CONTRACTION JOINTS TO BE SAWED NO FURTHER THAN 12' c/c.



TYPICAL SECTION
4" P.C. SIDEWALK

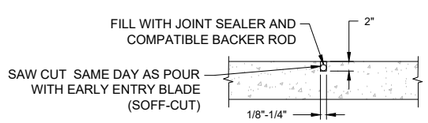


CONCRETE PARKING BLOCK



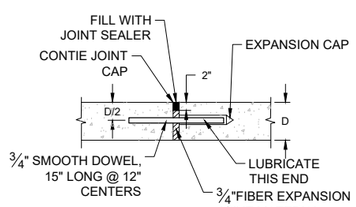
JOINT SPACING SHALL EQUAL SIDEWALK WIDTH

GROOVED
CONTRACTION JOINT



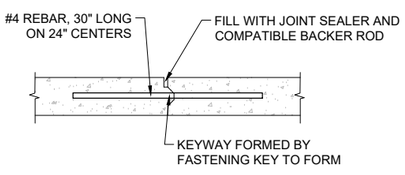
JOINT SPACING AS SHOWN NOT TO EXCEED 15' OR AS SHOWN ON JOINT LAYOUT

CONTRACTION JOINT



INSTALL IN CURB AT PT'S & PC'S OF ROADWAY
(DOWEL BARS IN SIDEWALK SHALL BE 1/2" Ø)
100' MAX. SPACING IN SIDEWALKS & CURBS

EXPANSION JOINT



CONSTRUCTION (COLD)
JOINT

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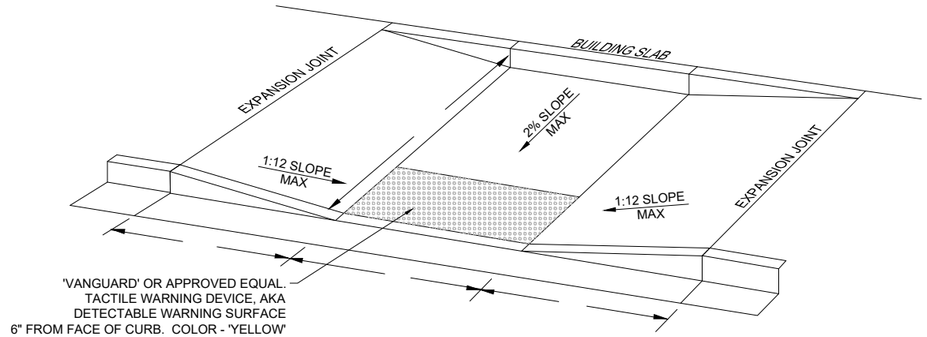
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PAVING DETAILS (1)
PROP. CONVENIENCE STORE
KANG'S ADDITION
3RD ST. AND P ST. NE
ARDMORE, OK 2024

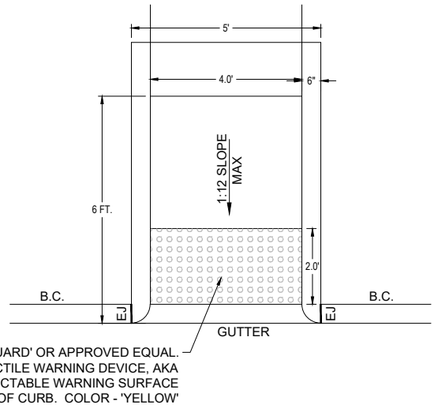
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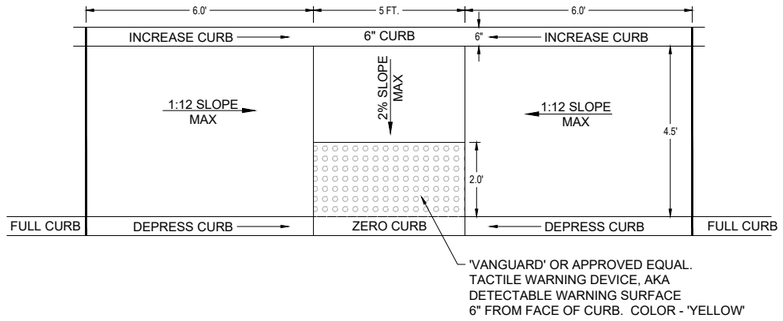
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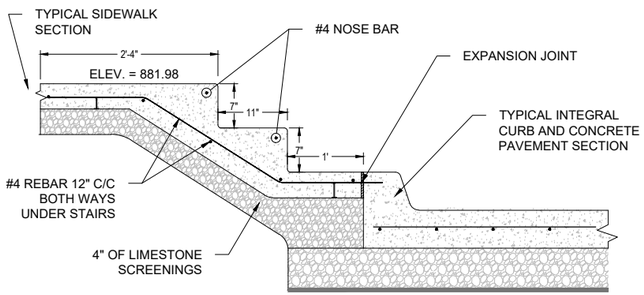
ISOMETRIC VIEW
TYPE 'D' RAMP



PLAN-TYPE 'B' CURB RAMP



PLAN-TYPE 'D' CURB RAMP



TYPICAL SECTION
CONCRETE STEPS

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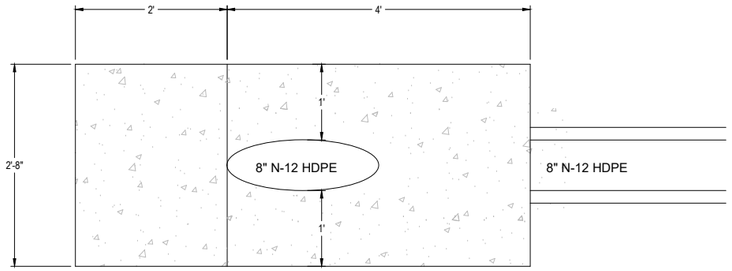
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PAVING DETAILS (2)
PROP. CONVENIENCE STORE
KANG'S ADDITION
3RD ST. AND P ST. NE
ARDMORE, OK 2024

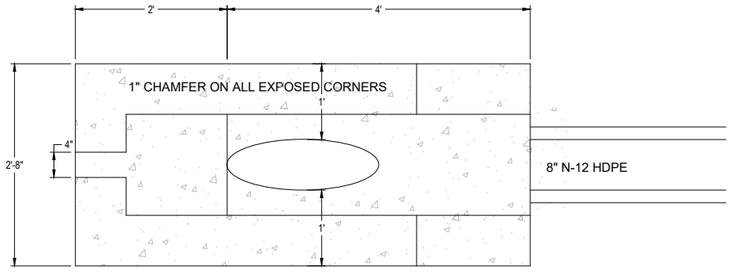
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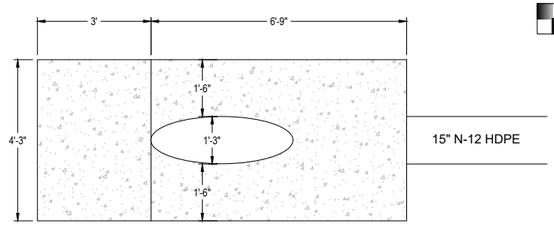
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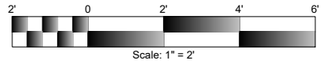
PLAN VIEW
8" PIPE
3:1 SLOPED END SECTION

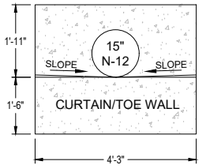


PLAN VIEW
8" PIPE
3:1 SLOPED END SECTION
W/ NOTCHED WEIR

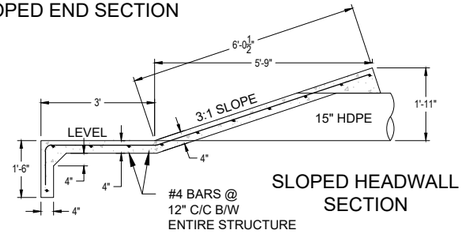


PLAN VIEW
15" PIPE
3:1 SLOPED END SECTION

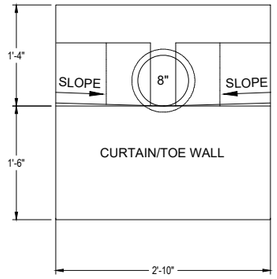




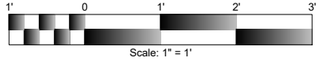
ELEVATION END VIEW
SLOPED HEADWALL

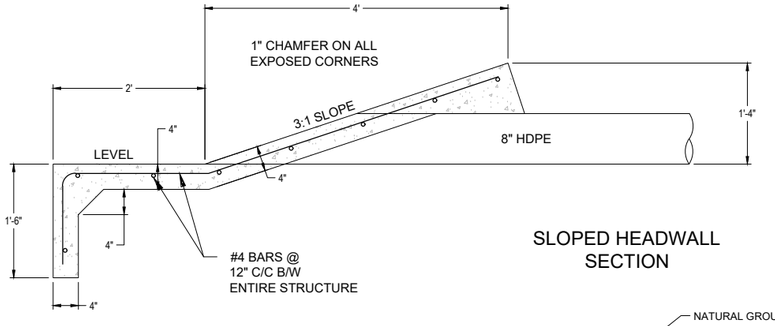


SLOPED HEADWALL
SECTION

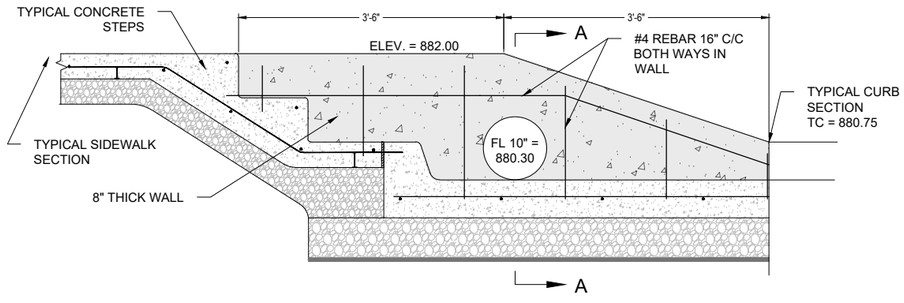


ELEVATION END VIEW
SLOPED HEADWALL



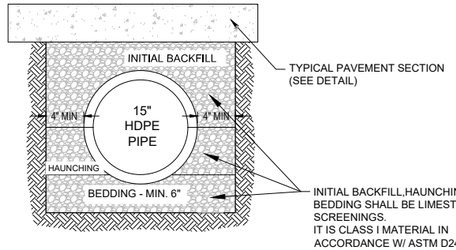


SLOPED HEADWALL
SECTION

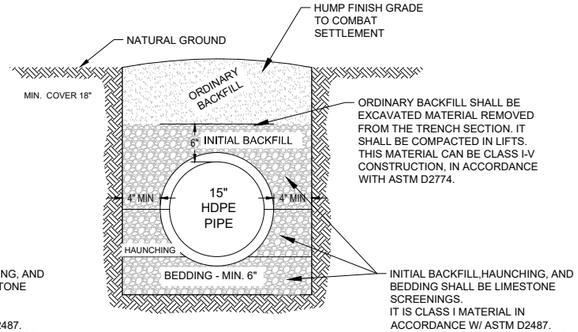


ELEVATION VIEW
HEADWALL/EXTRA TALL CURB
FOR 10" STORM DISCHARGE

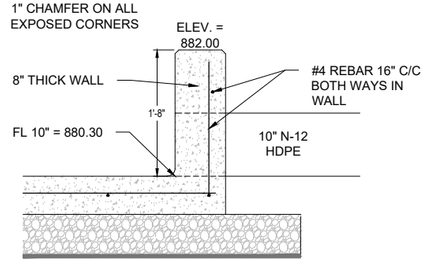
1" CHAMFER ON ALL
EXPOSED CORNERS



STORM SEWER TRENCH
UNDER PAVEMENT



STORM SEWER TRENCH
SECTION



SECTION A-A
10" DISCHARGE HEADWALL

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DRAINAGE DETAILS
PROP. CONVENIENCE STORE
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PROJ. NO:	14

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GENERAL CONSTRUCTION NOTES
SANITARY SEWER

1. All sewer pipe being less than 4" diameter or less shall be schedule 40, meeting the requirements of ASTM-D-1785. Joints shall be solvent weld meeting the requirements of ASTM-D-2855. or elastomeric gasket

2. Sanitary Sewer Pipe 4" or greater shall conform to the following standards: All Poly-vinyl Chloride (PVC) sewer pipe shall meet the requirements of ASTM-D-3034 (SDR 35). All fittings shall be elastomeric gasket meeting the requirements of ASTM-D-3212 or ASTM-F-913.

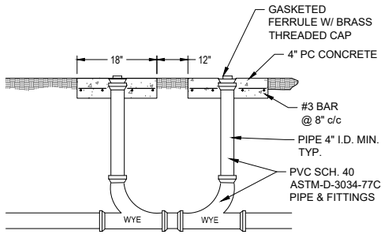
3. When necessary to cross existing utility lines, vertical clearance shall be a minimum of 24".

4. Concrete shall have a minimum of 6 sacks of cement per cubic yard and shall reach a compressive strength of 4000 PSI in 28 days. Mixing water shall not exceed 5 gallons per sack of cement.

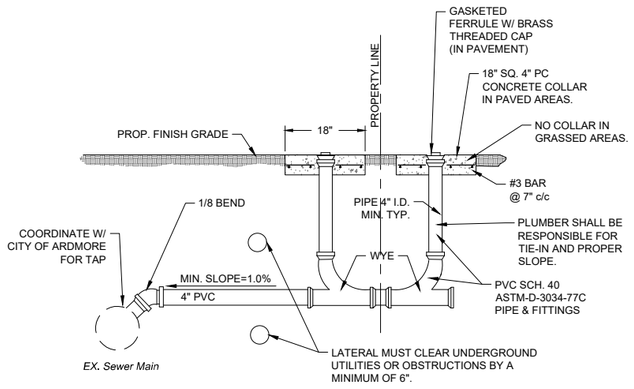
5. The Contractor shall take care not to damage existing utility lines, drainage structures, driveways, sidewalks, poles or any other structures adjacent to the work area.

6. The Contractor shall construct a 2'x2'x6" Concrete collar around all sanitary sewer clean-outs.

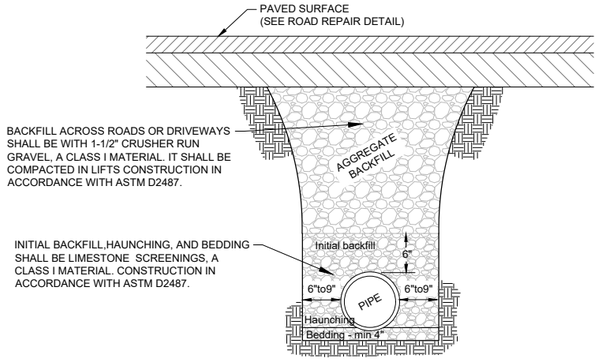
7. Stones in the trench shall be removed for a depth of at least six inches (15 centimeters) below the bottom of the pipe [OAC 252:626-19-2].



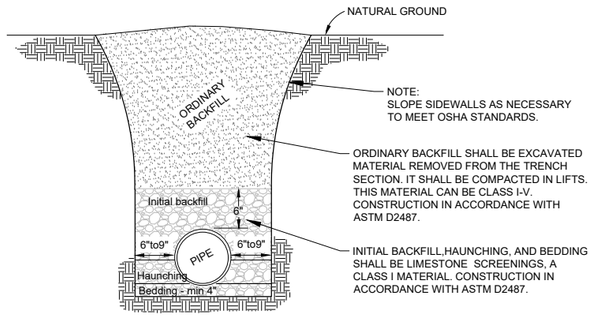
DOUBLE CLEANOUT DETAIL



ARDMORE SEWER SERVICE DETAIL



ROAD-DRIVEWAY
SEWER TRENCH SECTION



NOTE: 1-1/2" CRUSHER RUN IS EQUIVALENT
TO TYPE A AGGREGATE BASE

ORDINARY SEWER
TRENCH SECTION

NOTE: TRENCH SECTION APPLIES TO ALL
AREAS OF TRENCHING, INCLUDING ROCK.

WATERLINE CONSTRUCTION NOTES

1. Water pipe shall be SDR-18 C900 meeting the requirements of AWWA C900 and ASTM F477.

   "Poly" piping 4" nominal size and larger, shall be DIPS (SDR11) HDPE meeting the requirements of AWWA C906, ASTM F714. "Poly" (HDPE) piping 3" nominal size and smaller shall be IPS in accordance with ASTM D3035 & AWWA C901. All HDPE piping shall meet ASTM D3350 high density polyethelene cell classification.

2. Cast iron water valves shall conform to AWWA Standard C509 latest revision. Cast iron valves shall be iron body being of the resilient seat type, mechanical joint, Class 200.

3. When necessary to cross existing utility lines, vertical clearance shall be a minimum of 24".

4. All Water line fittings shall be either mechanical joint or a joint restrained fitting. Said joint restrained fitting shall be internally locked, for cast iron pipe. It shall be a positive lock against joint separation without the use of thrust blocks or tied rods. At a pipeline junction such as a tee; if a valve is to be installed after the tee, a short section of ductile iron pipe will be placed between the valve and the tee. This shall occur at all pipe line junctions where a valve is to be installed.

5. All non-metallic utility systems are to be provided with a pipeline locating wire (no,12 TW Copper Wire) installed on or adjacent to the buried pipeline. The locating wire shall be attached to all metal valve boxes with a material that will not deteriorate due to electrolysis and will furnish a continuous current at each location. A driven ground rod shall be provided at non- metallic boxes or structures in a manner that will permit the attachments of a locating instrument which induces an electric traceable signal.

6. Fire Hydrant, valve box, and 6 inch Tee to be supplied, shall be mechanical joint fittings. The 6 inch pipe between the Tee and the valve and between the valve and the Fire Hydrant shall be cast iron. All glands for the mechanical joint fitting shall be equipped with set screws for bonding.

7. The Contractor shall construct a 2'x2'x6" Concrete collar around all water valves.

8. Concrete shall have a minimum of 6 sacks of cement per cubic yard and shall reach a compressive strength of 4000 PSI in 28 days. Mixing water shall not exceed 5 gallons per sack of cement. No "sack crete", "quikrete", or similar shall be permitted.

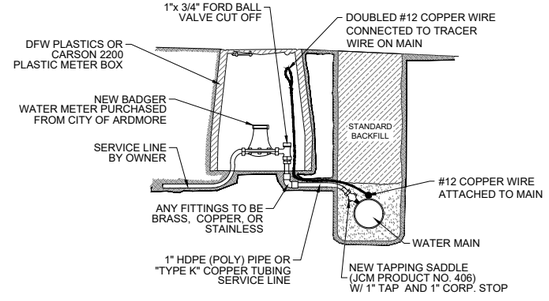
9. Roadway and Driveway repairs shall be of like kind.

10. The Contractor shall take care not to damage existing utility lines, drainage structures, driveways, sidewalks, poles or any other structures adjacent to the work area.

11. Cost for other miscellaneous items not listed on Bid Schedule for required for completion of waterline construction to be included in other bid items.

12. Stones in the trench shall be removed for a depth of at least six inches (15 centimeters) below the bottom of the pipe [OAC 252:626-19-2].

13. All new, cleaned or repaired potable water mains shall be disinfected in accordance with the Department's rules for Public Water Supply Operation, OAC 252:626. As an alternate, American Water Works Association C651 specifications may be used[OAC 252:626-19-2F].



WATER METER INSTALLATION
(REFER TO ARDMORE STD. SPECS)

NOTE: COORDINATE WITH CITY OF ARDMORE FOR METER SIZE.

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FOX ENGINEERING
CIVIL ENGINEERS
ARDMORE - OKLAHOMA
CERTIFICATE OF AUTHORIZATION NO. 5133
CERTIFICATE OF AUTHORIZATION EXPIRES 6-30-2026

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UTILITY DETAILS
PROP. CONVENIENCE STORE
KANG'S ADDITION
3RD ST. AND P ST. NE
ARDMORE, OK 2024

DATE:	
Rev #	Revision Date/Description
PROJ. PHASE:	SHEET NO:
PROJ. NO:	15

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