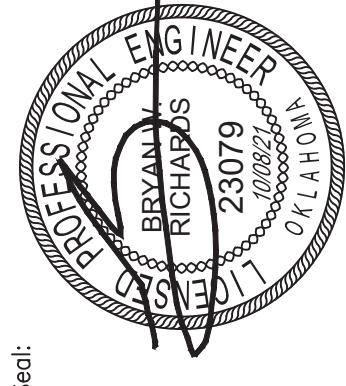




HARMONY SCHOOL APARTMENTS

1537 NE 24th STREET
OKLAHOMA CITY, OKLAHOMA, 73111

Project Number: Client Number:
N/A



BRYAN W. RICHARDS, P.E.
Expires: 11/30/2022

BWR DESIGN GROUP

BWR DESIGN GROUP, LLC
PO BOX 31732
EDMOND, OK 73003
Tel: 405.763.1517
CA 7227, Exp: 06/30/2022

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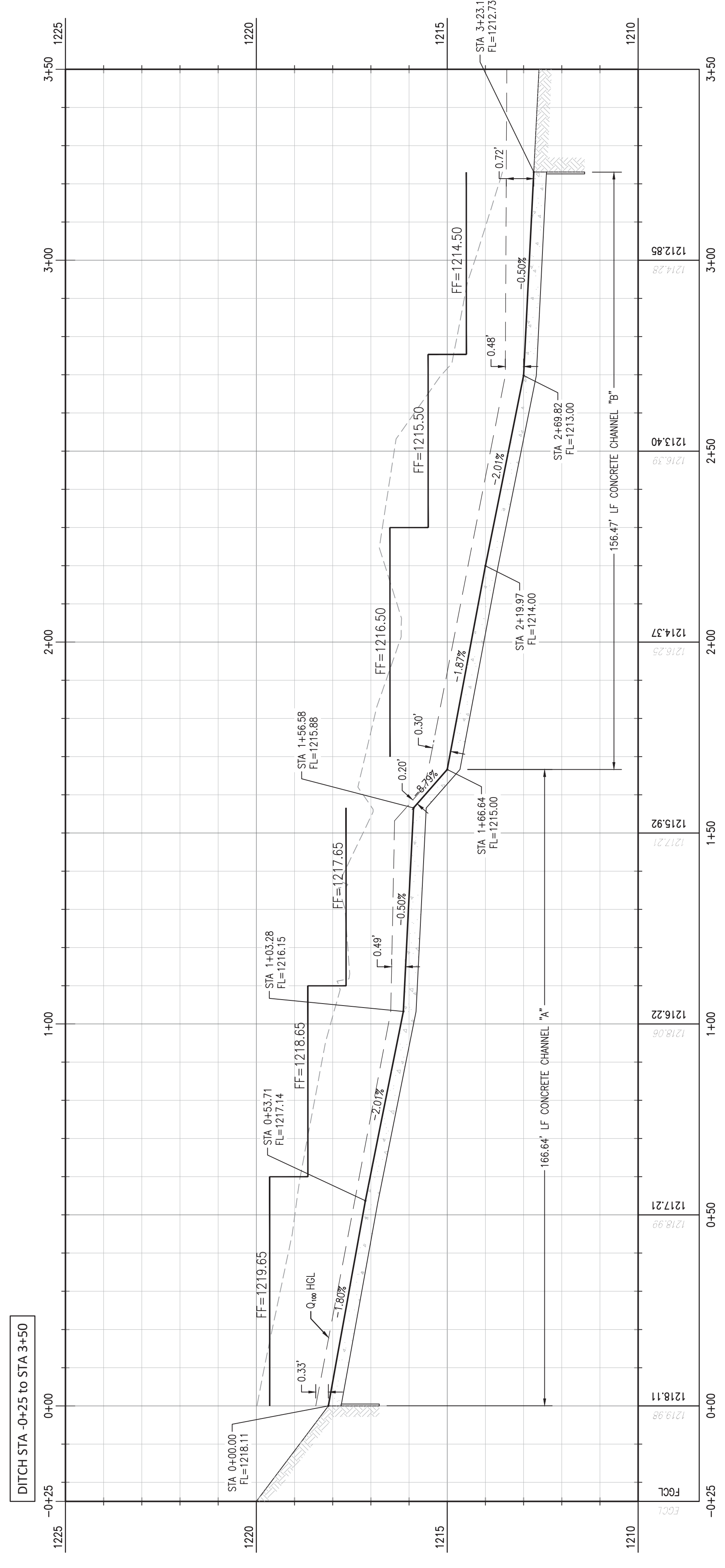
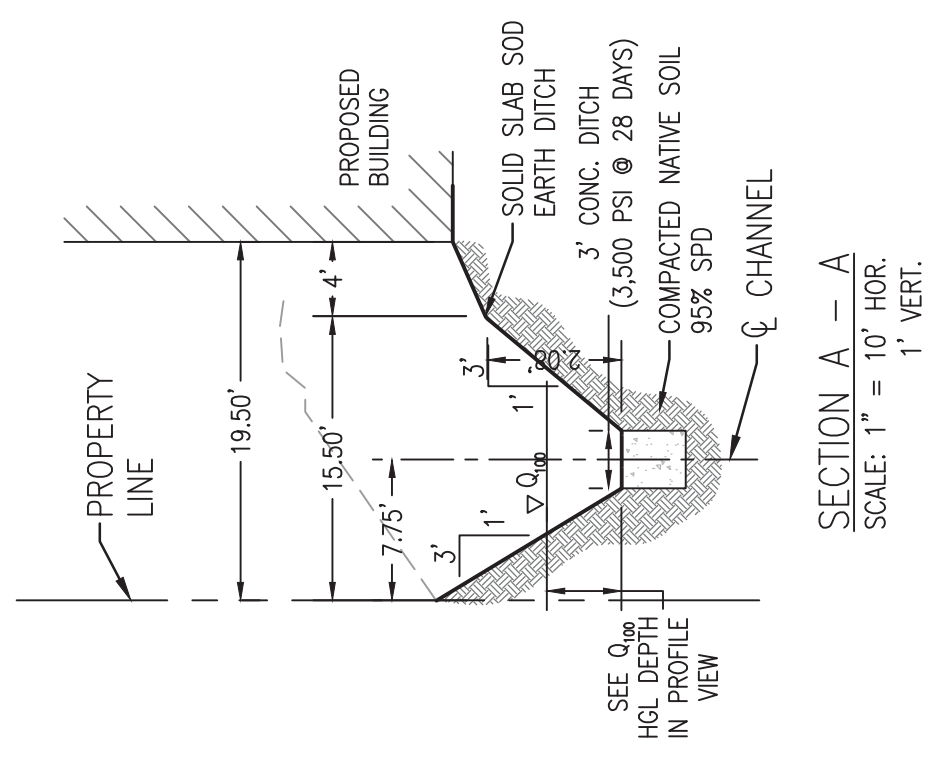
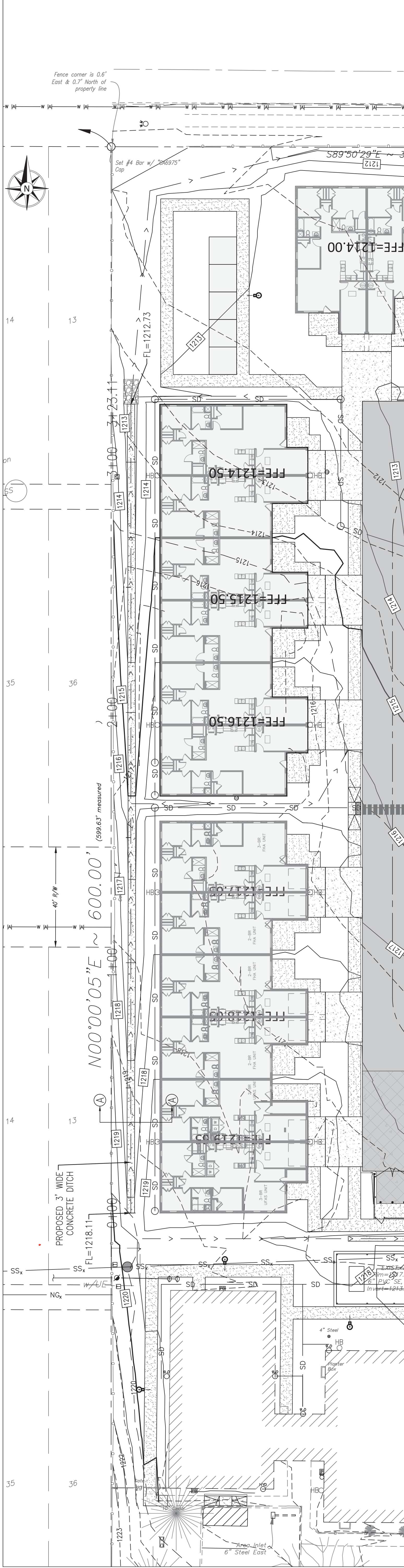
No. Date Revision

Sheet Title:

CONCRETE DITCH PLAN AND PROFILE

Sheet Number:

C4.6

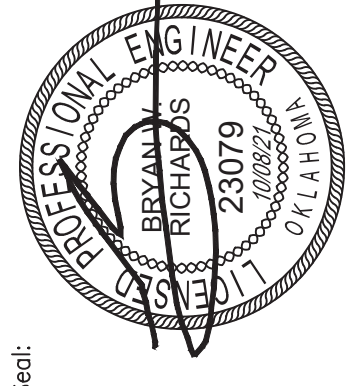




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BWR DESIGN GROUP, LLC
PO BOX 31732
EDMOND, OK 73003
660-222-1177
CA 72271, EXP. 06/30/2022

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UTILITY PLAN

Sheet Number:
C5.0

GENERAL UTILITY NOTES

- CONTRACTOR SHALL COORDINATE WITH THE CITY FOR ALL INTERCONNECTIONS TO PUBLIC UTILITIES.
- CONTRACTOR SHALL CALL ONE HOUR BEFORE ANY EXCAVATION ACTIVITIES. CALL ONE HOUR BEFORE ANY EXCAVATION ACTIVITIES. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE ENGINEER MAKES NO GUARANTEE THAT THE INFORMATION PROVIDED IS ACCURATE. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES IN THE FIELD. THE ENGINEER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH HE DOES CERTIFY THAT THEY ARE LOCATED AS SHOWN ON THE INFORMATION AVAILABLE. THE ENGINEER HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES.
- CONTRACTOR SHALL VERIFY ALL UTILITY CONNECTIONS TO THE BUILDING(S) WITH THE MEP PLANS. UNLESS OTHERWISE NOTED, PIPE 3 INCHES AND SMALLER SHALL BE PEX STYLE OR PVC UNDER PPE.
- ALL VALVES, MANHOLE LIDS, AND SEWER CLEAN-OUTS LOCATED IN PAVED AREAS, SHALL BE PAVED FOR 1'-2' TO 2' MINIMUM.
- CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ELEVATIONS AND ADJUSTING ALL COVERS AND LIDS IN PAVED AREAS TO FINISHED GRADE. ALL FIELD ADJUSTMENTS SHALL BE NOTED AND BROUGHT TO ENGINEER'S ATTENTION FOR APPROVAL.
- CONTRACTOR SHALL RAISE OR LOWER ALL EXISTING VALVE BOXES AND COVERS, FIRE HYDRANTS, FIRE METER, AND OTHER UTILITIES TO MEET THE SPECIFICATIONS OF EACH UTILITY COMPANY RESPECTIVELY.
- ALL 4" SANITARY SEWER SERVICE LINES SHALL HAVE A MINIMUM 2% SLOPE WITH CLEANOUTS SET AT 10' ON CENTERS. 6" SERVICE LINES SHALL HAVE A MINIMUM 1.00% SLOPE. SEWER PIPE SHALL BE PVC MATERIAL.
- CONTRACTOR SHALL PROVIDE IRRIGATION CONDUIT AND LIGHTING AS NEEDED. REFER TO LANDSCAPE ARCHITECTURAL PLANS AND MEP PLANS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH STATE LAWS AND FEDERAL REGULATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS. PERFORMANCE UNDER THIS CONTRACT. CONTRACTOR IS ADVISED THAT FEDERAL REGULATIONS 29 C.F.R. 1926.1000-1006.652 HAVE BEEN IN THEIR MOST RECENT EDITION AS AMENDED. IN EFFECT SINCE 01/01/2018. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REGULATIONS PERTAINING TO EXCAVATIONS, TRENCHING, AND SHIELDING AND SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS.
- THE CONTRACTOR SHALL PROVIDE SUFFICIENT WORKERS, MATERIAL, AND EQUIPMENT TO COMPLETE ALL UTILITY CONNECTIONS IN THE ALLOTTED TIME. THE CONTRACTOR SHALL COORDINATE THE CONNECTION OF ALL UTILITIES TO THE BUILDING(S) WITH THE MEP PLANS. THE CONTRACTOR SHALL COORDINATE THE CONNECTION OF ALL UTILITIES TO THE BUILDING(S) WITH THE MEP PLANS. THE CONTRACTOR SHALL COORDINATE THE CONNECTION OF ALL UTILITIES TO THE BUILDING(S) WITH THE MEP PLANS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PERMIT APPLICATION AND COORDINATION WITH THE CITY. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS AND FEES.
- THE EXISTING UTILITIES SHALL BE EXPOSED PRIOR TO THE WORK IN ORDER TO VERIFY DEPTH AND SIZE.
- THERE SHALL BE A MINIMUM DEPTH OF BURY OF 36-INCHES FOR PROPOSED PRIVATE WATER LINES.
- THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL FITTINGS, BENDS, RESTRAINED JOINTS, THRUST BLOCKS, AND OTHER NECESSARY ITEMS TO COMPLETE THE WATER AND FROST FREE HAND HYDRANT WATER SYSTEM. THIS INCLUDES ALL DOMESTIC WATER, FIRE WATER AND FROST FREE HAND HYDRANT WATER LINES AND APPEARANCES NEEDED.

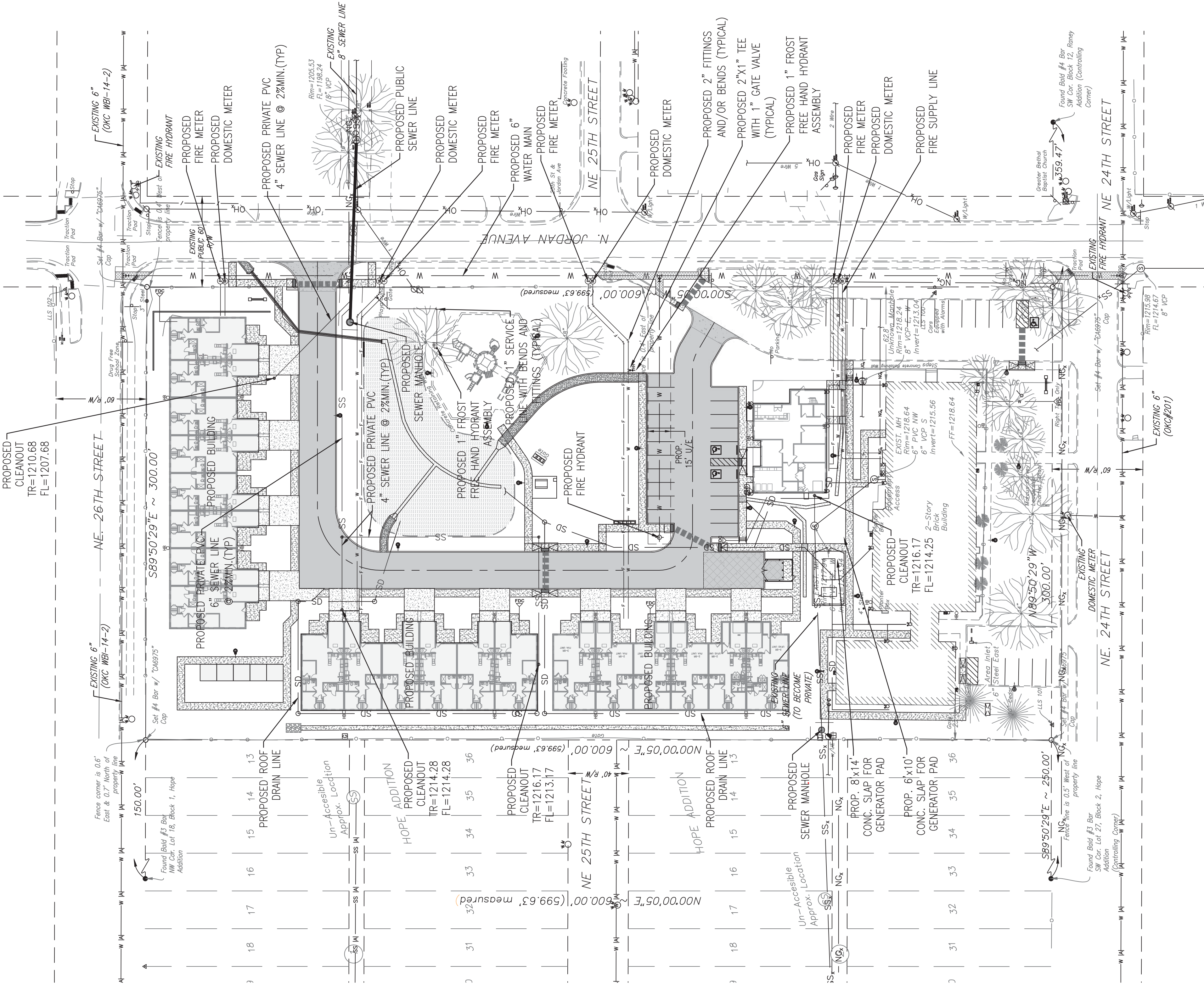
LEGEND

W ₁	EXISTING WATER LINE
18	BUILDING HOSE BIB
3/4"	EXISTING FIRE HYDRANT
SS ₁	EXISTING SANITARY SEWER LINE
OH ₁	EXISTING SANITARY SEWER MANHOLE
NS ₁	EXISTING OVERHEAD ELECTRIC LINE
NS ₂	EXISTING NATURAL GAS LINE
TUC ₁	EXISTING COMMUNICATIONS
W	PROPOSED WATER/FIRE LINE
SS	PROPOSED SANITARY SEWER
G	PROPOSED SANITARY SEWER CLEAN OUT
PUG	PROPOSED NATURAL GAS
SD	PROPOSED ELECTRIC
SD	PROPOSED STORM DRAIN LINE
GM	PROPOSED GAS METER
M	PROPOSED 2" DOMESTIC WATER METER
F	PROPOSED 2" RESIDENTIAL FIRE METER
HH	PROPOSED FROST FREE HAND HYDRANT
V	PROPOSED TEE & GATE VALVE ASSEMBLY
f	PROPOSED BEND/FITTING



UTILITY WARNING:
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UTILITY ELEVATIONS AND SIZES MAY HAVE BEEN MEASURED UNDER ADVERSE FIELD CONDITIONS. UPON EXPOSING THE UTILITY, ELEVATIONS AND LINE SIZES SHOULD BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR SHOULD VERIFY CRITICAL ELEVATIONS USING THE BENCHMARK PROVIDED BY THE SURVEYOR OR ENGINEER. ANY DISCREPANCIES SHOULD BE IMMEDIATELY BROUGHT TO THE ENGINEER'S AND SURVEYOR'S ATTENTION.

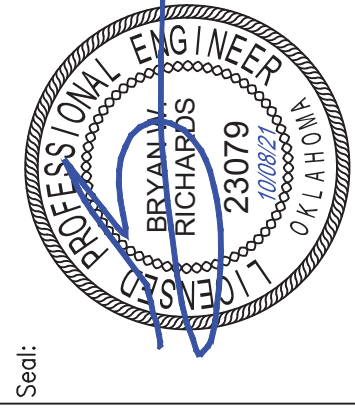




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BWR DESIGN GROUP

BWR DESIGN GROUP, LLC
PO BOX 31732
EDMOND, OK 73003
Tel: (405) 865-1517
CA 72271, EXP. 06/30/2022

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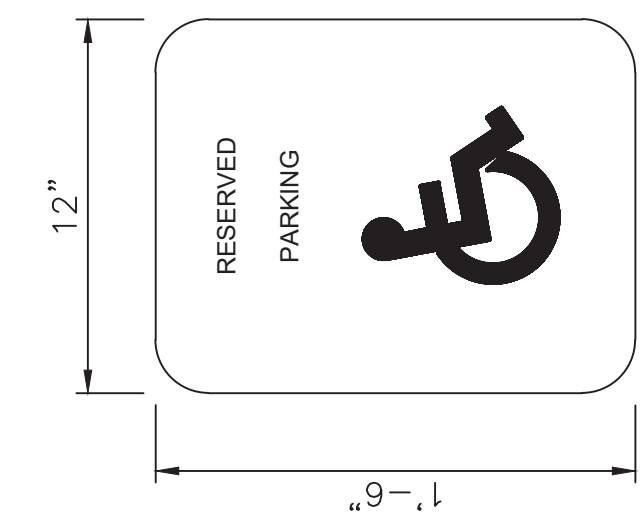
No. Date Revision

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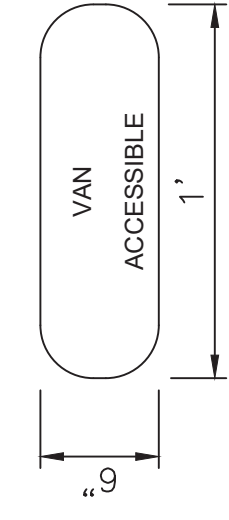
CIVIL DETAILS

Sheet Number:

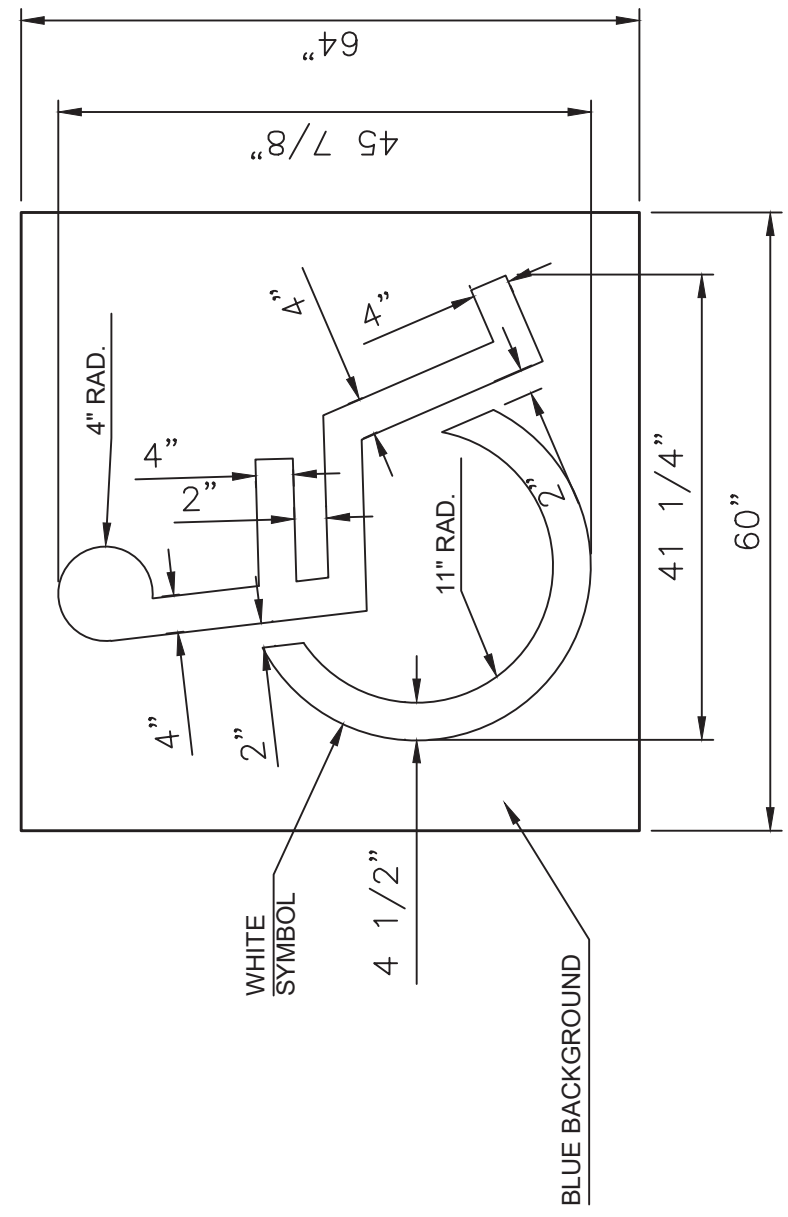
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2 ADA PARKING SPACE SIGN
NOTE: ALL ADA SIGNAGE SHALL MEET CURRENT FEDERAL AND LOCAL GUIDELINES



3 ADA PARKING SPACE SIGN
NOTE: ALL ADA SIGNAGE SHALL MEET CURRENT FEDERAL AND LOCAL GUIDELINES

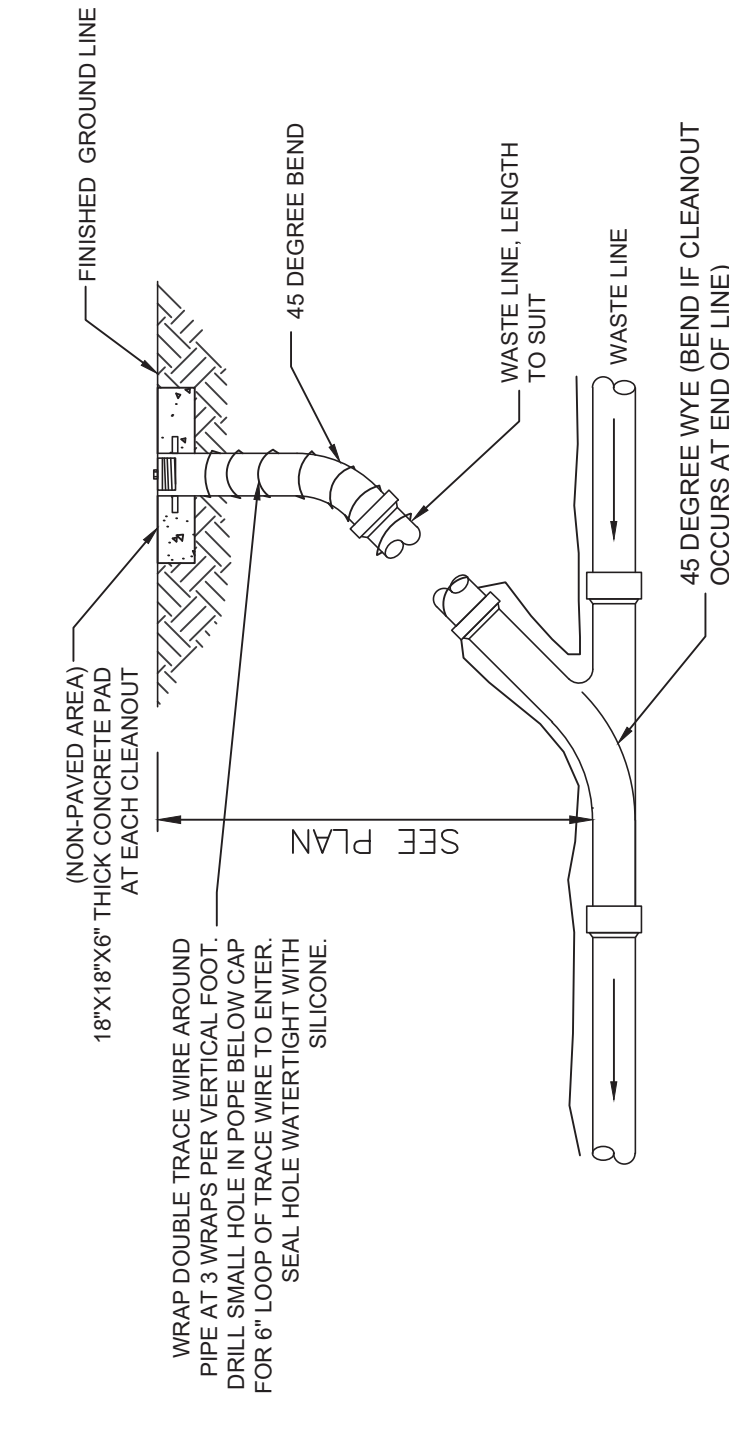


1 TYPICAL HANDICAP PARKING STRIP
NOTE: ALL ADA MARKINGS SHALL MEET CURRENT FEDERAL AND LOCAL GUIDELINES

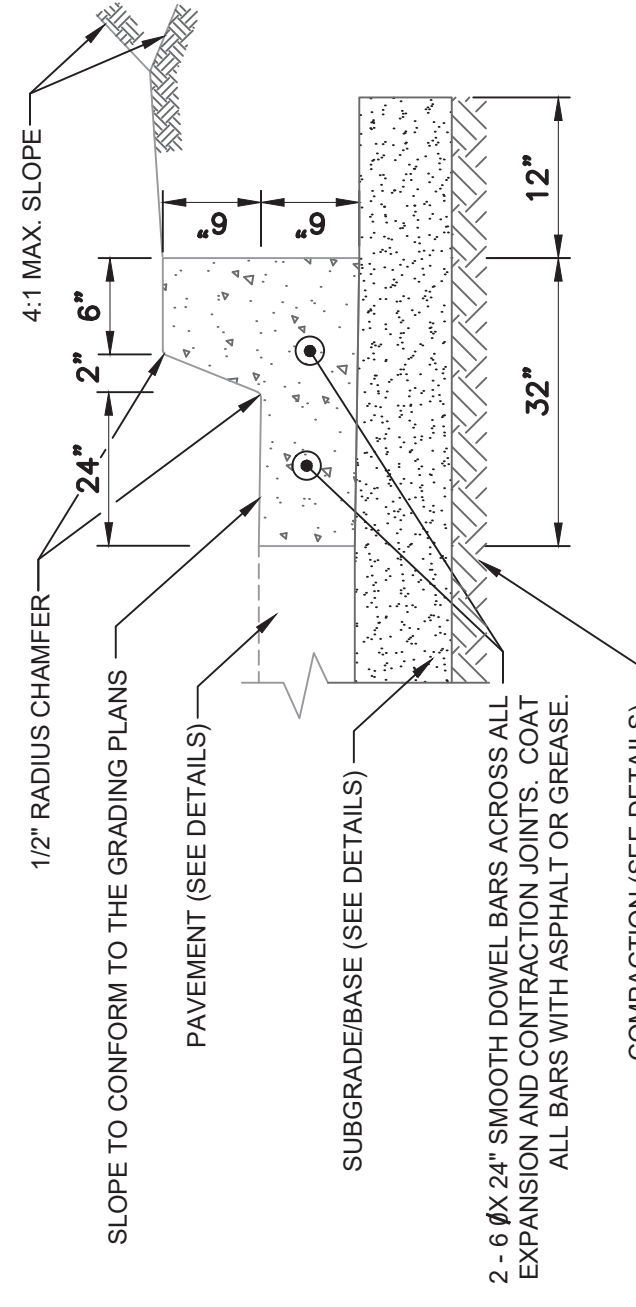
THE CONTRACTOR SHALL OBTAIN CURRENT CITY OF OKLAHOMA CITY STANDARD DRAWING DETAILS FOR THE FOLLOWING ITEMS:

- WATER SERVICE LINE, METERS AND DETAILS
- SANITARY SEWER LINE, STD DETAILS
- CONCRETE JOINT DETAILS
- ADA RAMP AND SURFACE MATERIALS
- STANDARD DRIVEWAY DETAILS
- CONTRACTOR SHALL PROVIDE PAVEMENT JOINT LAYOUT TO ENGINEER FOR REVIEW AND APPROVAL

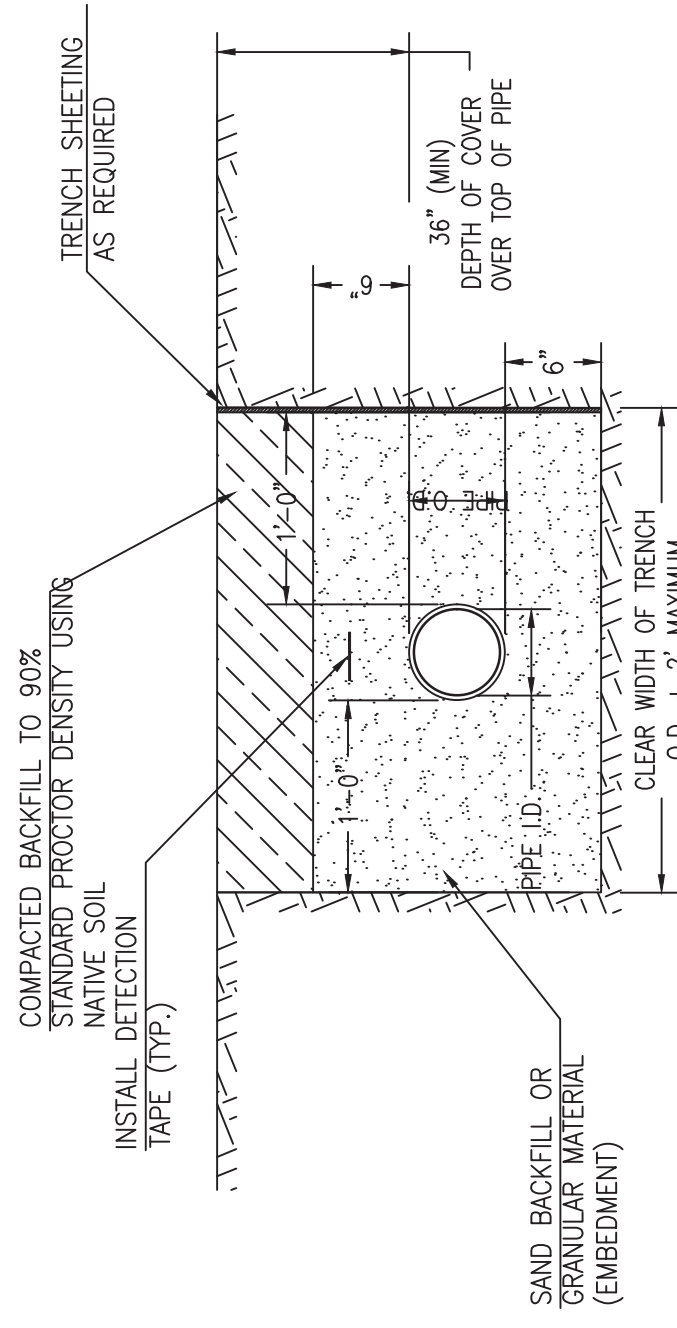
4 SIGN POST DETAIL



9 SANITARY SEWER CLEAN OUT DETAIL
NOTE: 1. LIDS IN TRAFFIC AREAS SHALL BE H-20 RATED

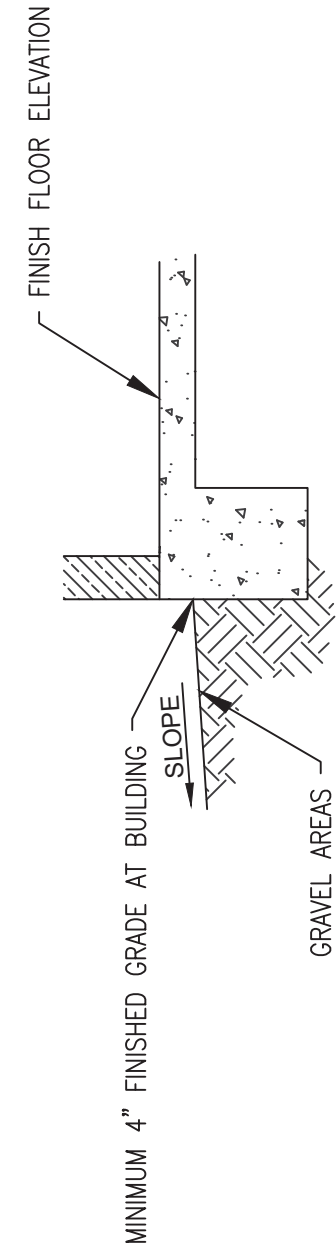


13 CONCRETE CURB AND GUTTER DETAIL
NOTE: 1. MAXIMUM SPACING OF 3' EXPANSION JOINTS TO BE 100' CENTER-TO-CENTER WITH CONTRACTION JOINTS 18" TO 22" APART TO MATCH DRIVEWAY RETURNS. 2. P.C. CONCRETE 3,500 PSI AT 28 DAYS. 3. PRIVATE (NON PUBLIC) CURB & GUTTER DETAIL

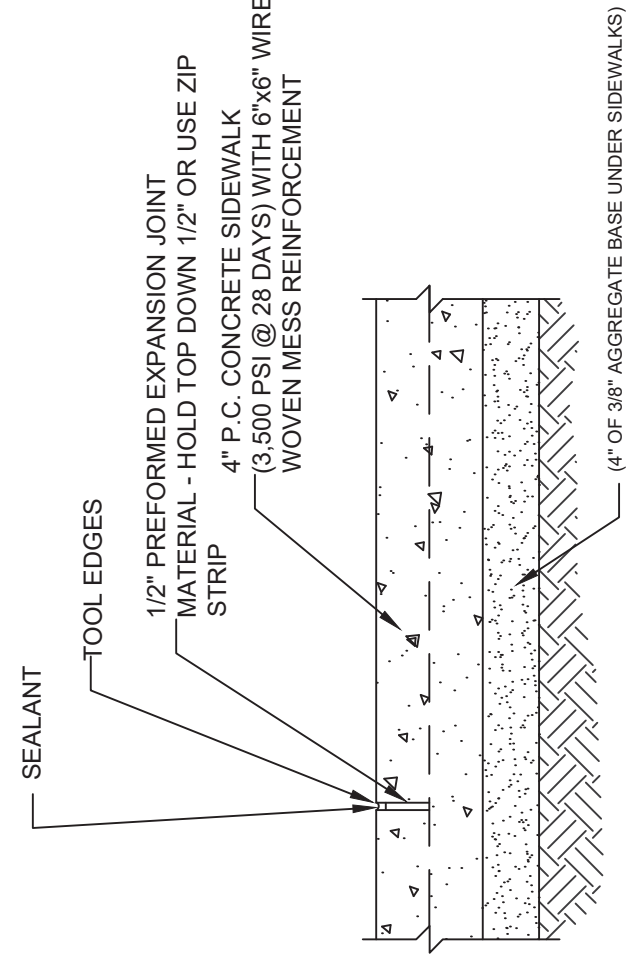


8 PRIVATE PVC TRENCH DETAILS

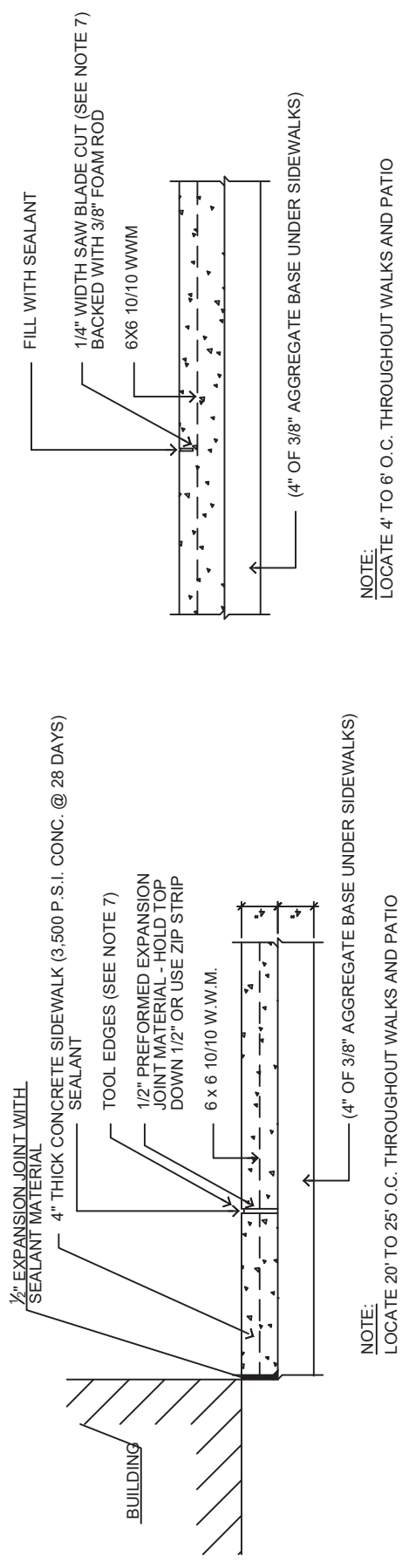
PVC Pipe notes:
1. Pipe - PVC pressure pipe shall be AWWA C-900, Pressure Class 200
2. Fittings - Fittings shall be mechanical joint type as specified under ductile iron fittings. All fittings shall have polyethylene encasement tubing
3. Tracer Wire (Conductor) - install one (1) strand of number twelve (12) gauge copper tracer wire along top of all PVC piping. Bring to top of ground surface and anchor all valves, fire hydrants, and other appurtenances.
4. Block or mechanical joint restraint for AWWA C-900 Joint restraints shall be provided by Ebas Iron Products, Inc., or Uni-Flange by The Ford Manufacturing Company.
5. Water Service Connections stainless steel saddle and gasket.
6. All bands require concrete thrust block or approved restrained joint pipe.



12 GRADING ADJACENT TO BUILDING (NON PAVED AREAS)

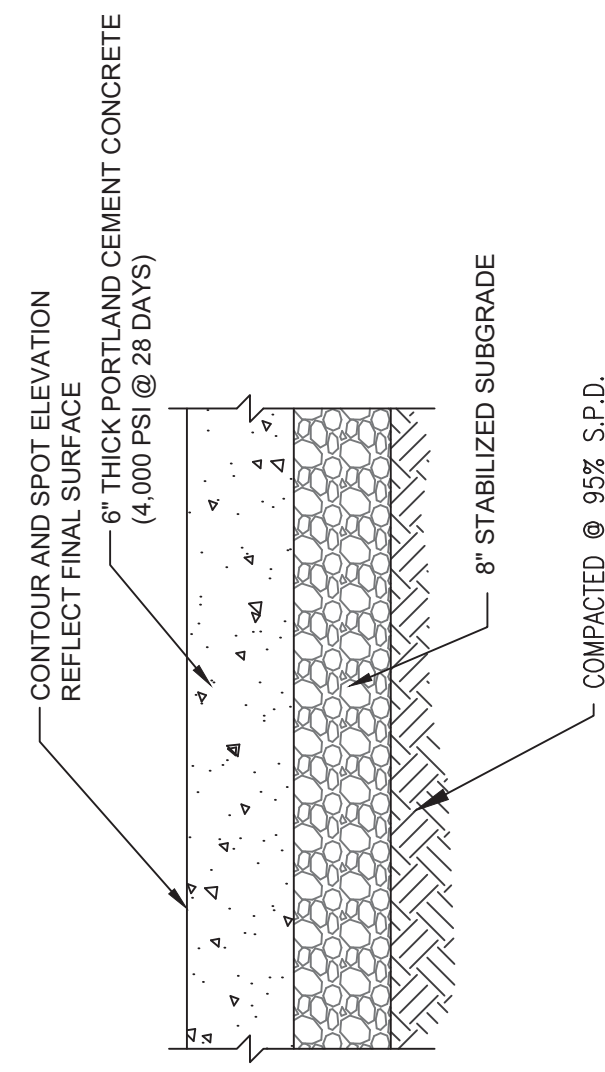


5 SIDEWALK DETAIL
NOTE: 1. SEE CITY STANDARDS FOR ADA RAMP AND TACTILE SURFACING DETAILS. 2. EXPANSION JOINTS TO BE LOCATED 20' TO 25' ON CENTER THROUGHOUT WALKS AND PATIO.

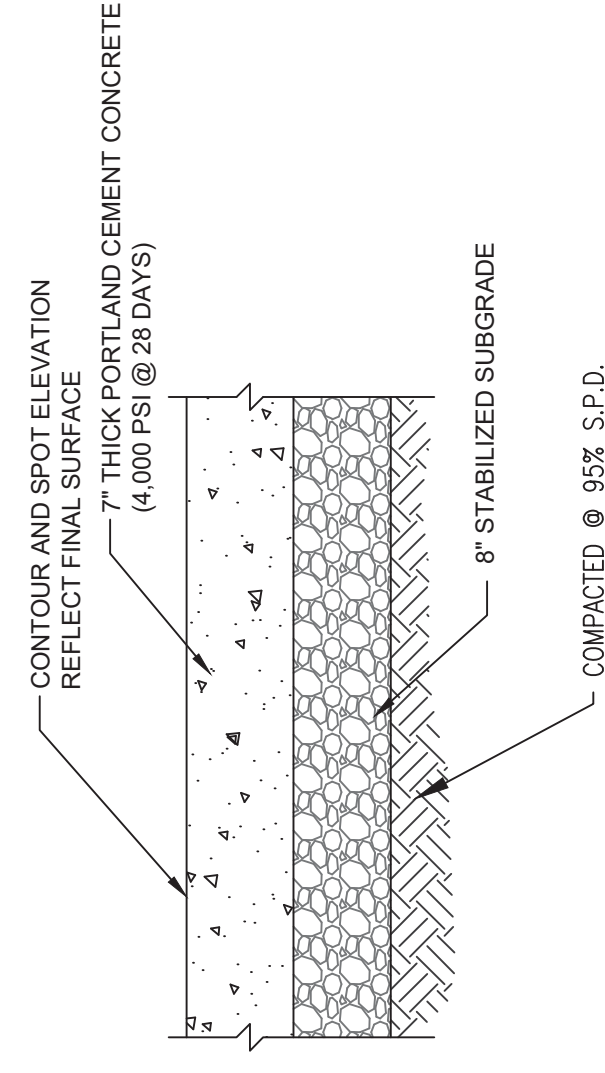


6 SIDEWALK EXPANSION JOINT
P.C. CONCRETE NOTES:
1. 1/2" x 4" pre-molded expansion material around structures in walk.
2. Expansion Joints maximum distance = 100', use 1/2" x 4" pre-molded expansion material.
3. Contraction Joints maximum distance = 7', saw cut 1-1/2" deep and fill with hot poured sealer.
4. Saw cut joints within 24 hours.
5. Use 1/2" x 4" pre-molded expansion joint at curb.
6. See Architectural Layout For Joint Layout Locations

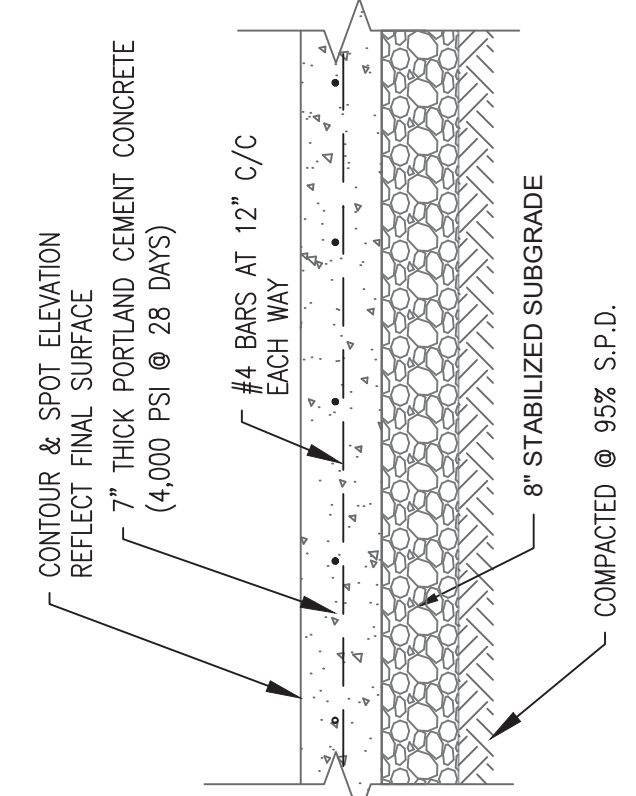
7 SIDEWALK SAW CONTROL JOINT
NOTE: LOCATE 4' TO 6' O.C. THROUGHOUT WALKS AND PATIO



11 LIGHT DUTY CONCRETE
NOTE: 1. ALL PAVEMENT AND SUBGRADE RECOMMENDATIONS PROVIDED ARE FROM THE GEOTECHNICAL ENGINEERS REPORT. 2. THE CONTRACTOR SHALL SUBMIT A JOINT LAYOUT PLAN TO THE ENGINEER TO REVIEW AND APPROVE.



10 HEAVY DUTY CONCRETE
NOTE: 1. ALL PAVEMENT AND SUBGRADE RECOMMENDATIONS PROVIDED ARE FROM THE GEOTECHNICAL ENGINEERS REPORT. 2. THE CONTRACTOR SHALL SUBMIT A JOINT LAYOUT PLAN TO THE ENGINEER TO REVIEW AND APPROVE.

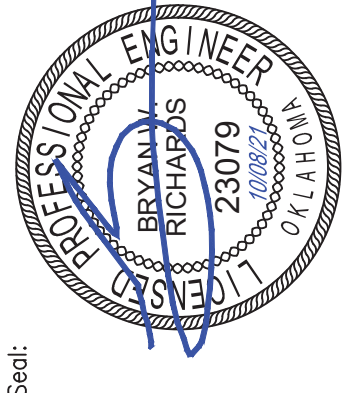


14 REINFORCED CONCRETE DUMPSTER PAD DETAIL
NOTE: 1. ALL PAVEMENT AND SUBGRADE RECOMMENDATIONS PROVIDED ARE FROM THE GEOTECHNICAL ENGINEERS REPORT. 2. THE CONTRACTOR SHALL SUBMIT A JOINT LAYOUT PLAN TO THE ENGINEER TO REVIEW AND APPROVE.



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BWR
DESIGN GROUP

BWR DESIGN GROUP, LLC
PO BOX 31732
EDMOND, OK 73003
O.C. No. 1517
CA 7227, EXP. 06/30/2022

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EROSION CONTROL
PLAN

Sheet Number:

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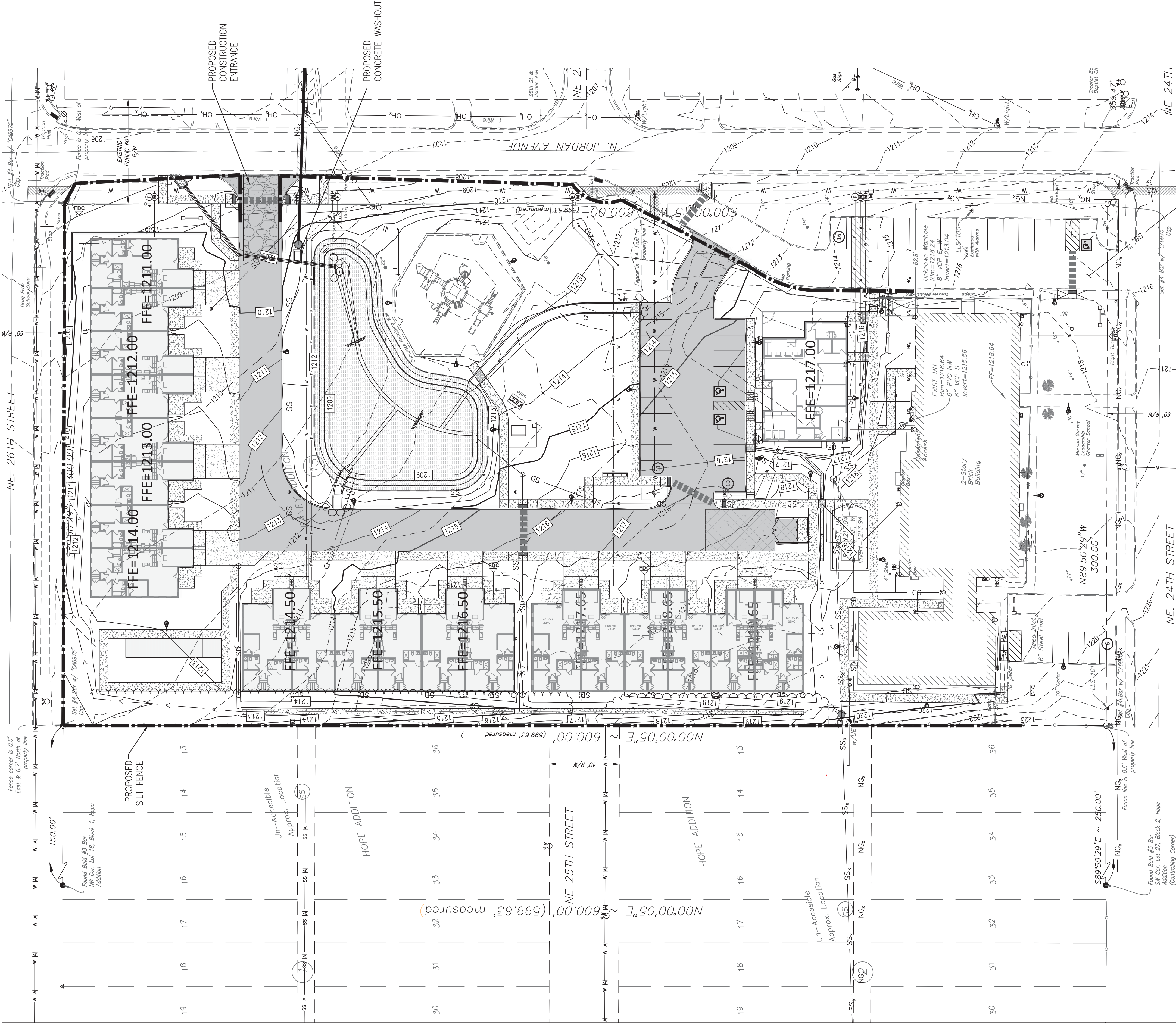


UTILITY WARNING:
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- LEGEND**
- PROPOSED SILT FENCE
 - PROPOSED SILT DIKE
 - PROPOSED ROCK BAG BARRIER
 - PROPOSED CONSTRUCTION ENTRANCE
 - PROPOSED CONCRETE WASHOUT

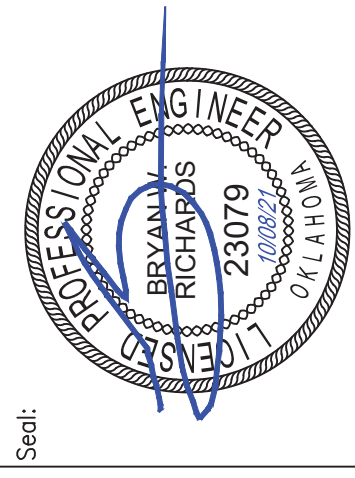




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EDMOND, OK 73003
918.347.1517
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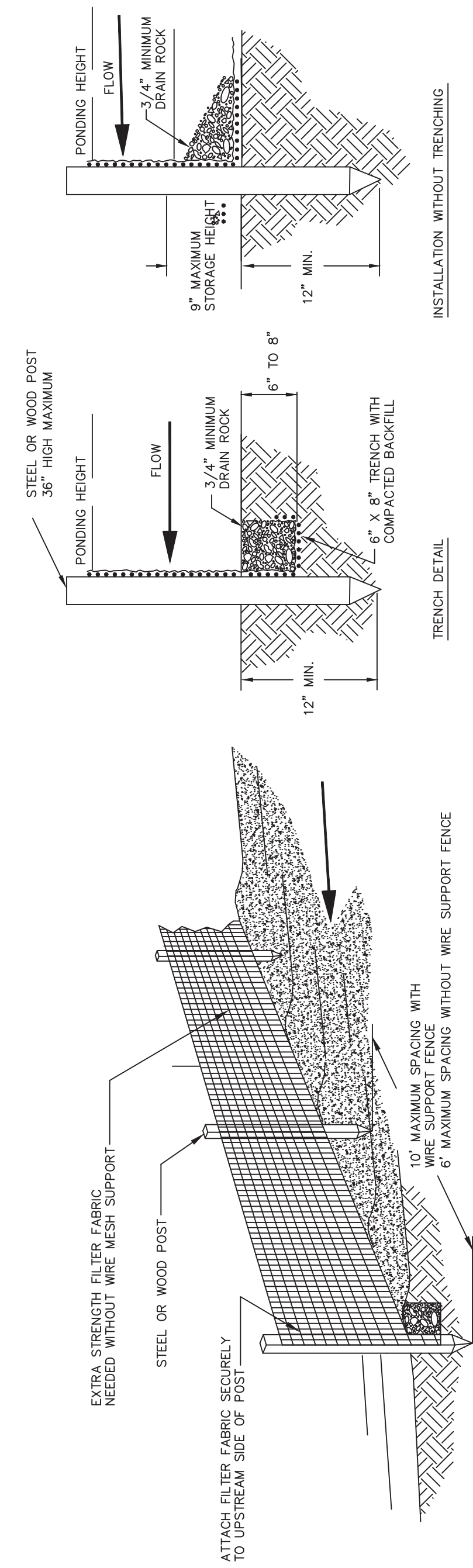
EROSION CONTROL NOTES AND DETAILS

Sheet Number:

C9.0

GENERAL EROSION CONTROL NOTES

- THE CONTRACTOR SHALL MAINTAIN AND REPAIR ANY DAMAGE TO STORM WATER POLLUTION CONTROL DEVICES AS SOON AS PRACTICAL AFTER THE DISCOVERY OF THE DAMAGE.
- THE CONTRACTOR SHALL USE WHATEVER MEASURES NECESSARY TO PREVENT SILT AND CONSTRUCTION DEBRIS FROM FLOWING ONTO ADJACENT PROPERTIES. THIS CAN BE ACCOMPLISHED BY TEMPORARY SEDIMENT PONDS, SILT FENCES, OR WIRE AND BURLAP FENCES.
- THE CONTRACTOR SHALL KEEP PAVEMENT AREAS FREE OF ANY MUD OR EXCAVATION WASTE FROM TRUCKS OR OTHER EQUIPMENT.
- THE CONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION CONTROL STRUCTURES UPON COMPLETION OF CONSTRUCTION AND THE ESTABLISHMENT OF SUFFICIENT PERMANENT STABILIZATION TO PREVENT EROSION.
- THE CONTRACTOR SHALL INSTALL SOLID SLAB SOIL TO OBTAIN STABILIZATION OF DISTURBED AREAS AS REQUIRED BY THE CONTRACT DOCUMENTS AND IN ACCORDANCE WITH THE CONSTRUCTION AND EROSION CONTROL SCHEDULES.
- THE CONSTRUCTION AND PLACEMENT OF EROSION AND SEDIMENT CONTROL DEVICES SHALL BE TIMED IN CONJUNCTION WITH THE PROGRESS OF GENERAL CONSTRUCTION. IT IS INTENDED THAT THE CONTRACTOR INSTALL THE NECESSARY CONTROL DEVICES AS REQUIRED TO PREVENT THE FREE RUN OF STORM WATER AND SILT FROM THE WORK AREA ONTO ADJACENT AREAS. ALL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE INSPECTED AND MAINTAINED, AS PREVIOUSLY SET FORTH HEREIN, UNTIL ALL AREAS OF CONSTRUCTION HAVE BEEN STABILIZED.
- THE CONTRACTOR SHALL BEGIN PERMANENT STABILIZATION OF COMPLETED AREAS OF CONSTRUCTION AS SOON AS IS PRACTICAL.
- STABILIZED CONSTRUCTION ENTRANCES SHALL BE REQUIRED AT ALL POINTS WHERE CONSTRUCTION OR EMPLOYEE VEHICLES ENTER OR LEAVE THE CONSTRUCTION OR STAGING AREAS. THE STABILIZED CONSTRUCTION ENTRANCES ARE INTENDED TO PREVENT THE TRACKING OF MUD ONTO PUBLIC STREETS OUTSIDE THE CONTROLLED CONSTRUCTION AREAS.
- UTILIZE THE EXISTING STABILIZED CONSTRUCTION ENTRANCES. IF NECESSARY, USE TWO INCH (2") STONE, RECYCLED OR RECYCLED CONCRETE OF SIMILAR SIZE, A MINIMUM OF SIX INCHES (6") THICK PLACED ON FILTER CLOTH.
- THE STABILIZED CONSTRUCTION ENTRANCES MAY BE REQUIRED. IF REQUIRED, IT SHALL BE A MINIMUM OF TWENTY FEET (20') IN WIDTH (BUT NOT LESS THAN FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCUR) AND AT LEAST FIFTY FEET (50') IN LENGTH. FIELD VERIFY LOCATION.
- ALL SURFACE WATER FLOWING OR DIVERTED TOWARD STABILIZED CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL THEN A MOUNTABLE BERM WITH FIVE TO ONE (5:1) SLOPES WILL BE PERMITTED.
- THE WHEELS OF VEHICLES LEAVING THE CONSTRUCTION AREAS SHALL BE CLEANED OF MUD PRIOR TO LEAVING THE CONSTRUCTION OR STAGING AREAS WHICH AREAS SHALL BE COVERED WITH MATS OR PERFORMED IN AN AREA STABILIZED WITH STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
- ANY MUD, SEDIMENT, EXCAVATION WASTE, ETC., DROPPED, WASHED, SPILLED, OR TRACKED FROM THE CONSTRUCTION OR STAGING AREAS ONTO STREETS OUTSIDE OF THE CONSTRUCTION AREAS SHALL BE REMOVED IMMEDIATELY.
- PERIODIC INSPECTION AND INSPECTION AFTER SIGNIFICANT RAINFALL SHALL BE MADE OF THE CONSTRUCTION ENTRANCES AS PREVIOUSLY SET FORTH HEREIN.
- STABILIZED CONSTRUCTION ENTRANCES SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT THE TRACKING OF MUD AND SEDIMENT ONTO PUBLIC STREETS OUTSIDE THE CONTROLLED CONSTRUCTION AREAS. PLACEMENT OF ADDITIONAL STONE, REPAIR AND/OR CLEANING OUT OF SEDIMENT TRAPPING DEVICES, AND OTHER MAINTENANCE MEASURES SHALL BE USED AS NECESSARY.
- SILT FENCE SHALL BE USED TO CONTROL SEDIMENTATION FROM SURFACE RUNOFF AROUND THE PERIMETER OF THE WORK AREA AS NECESSARY.
- INSTALL A PREFABRICATED CONCRETE WASHOUT CONTAINER OR AN APPROVED SELF-INSTALLED CONCRETE WASHOUT FACILITY.



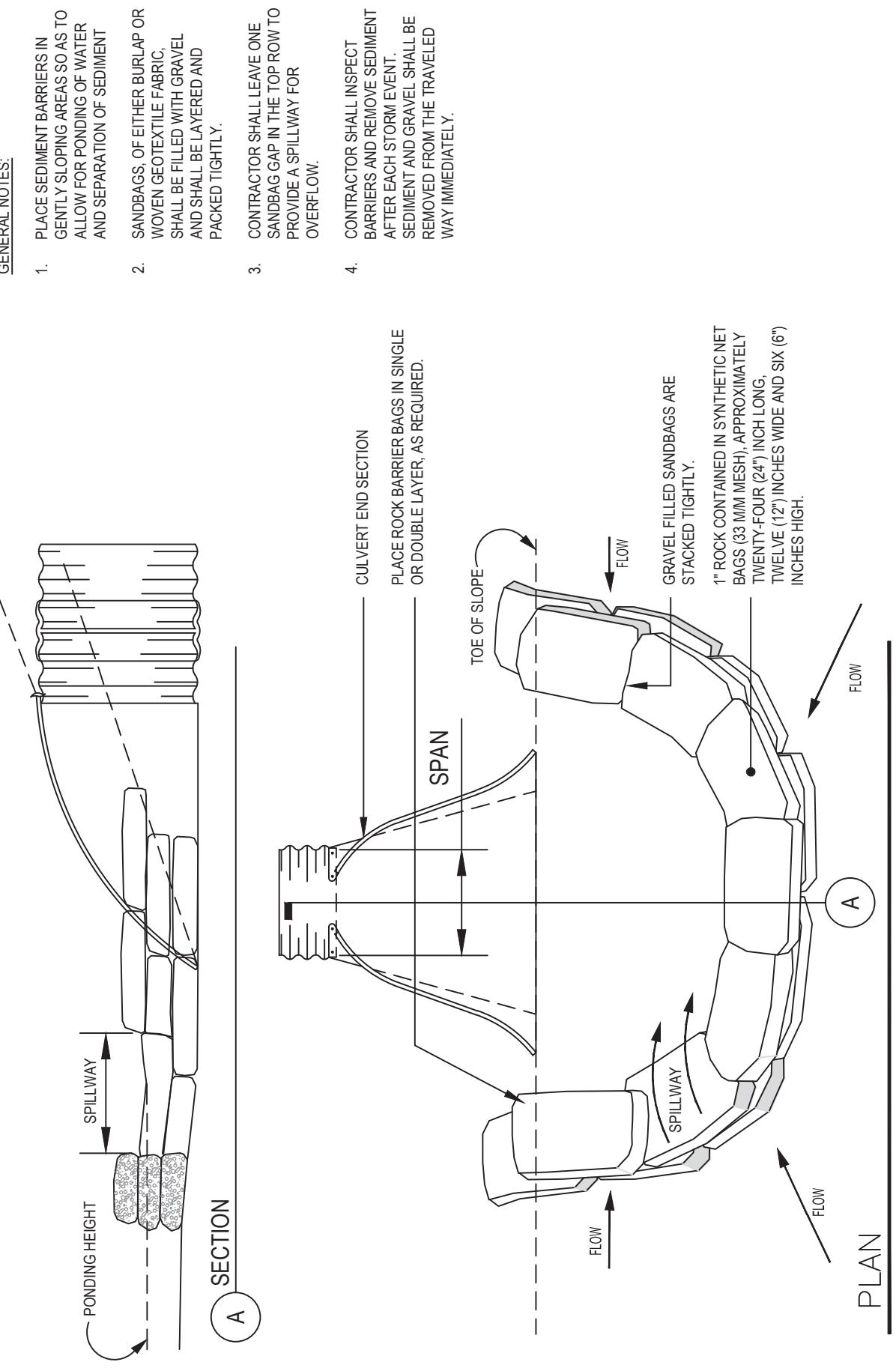
INSTALLATION WITHOUT TRENCHING

TRENCH DETAIL

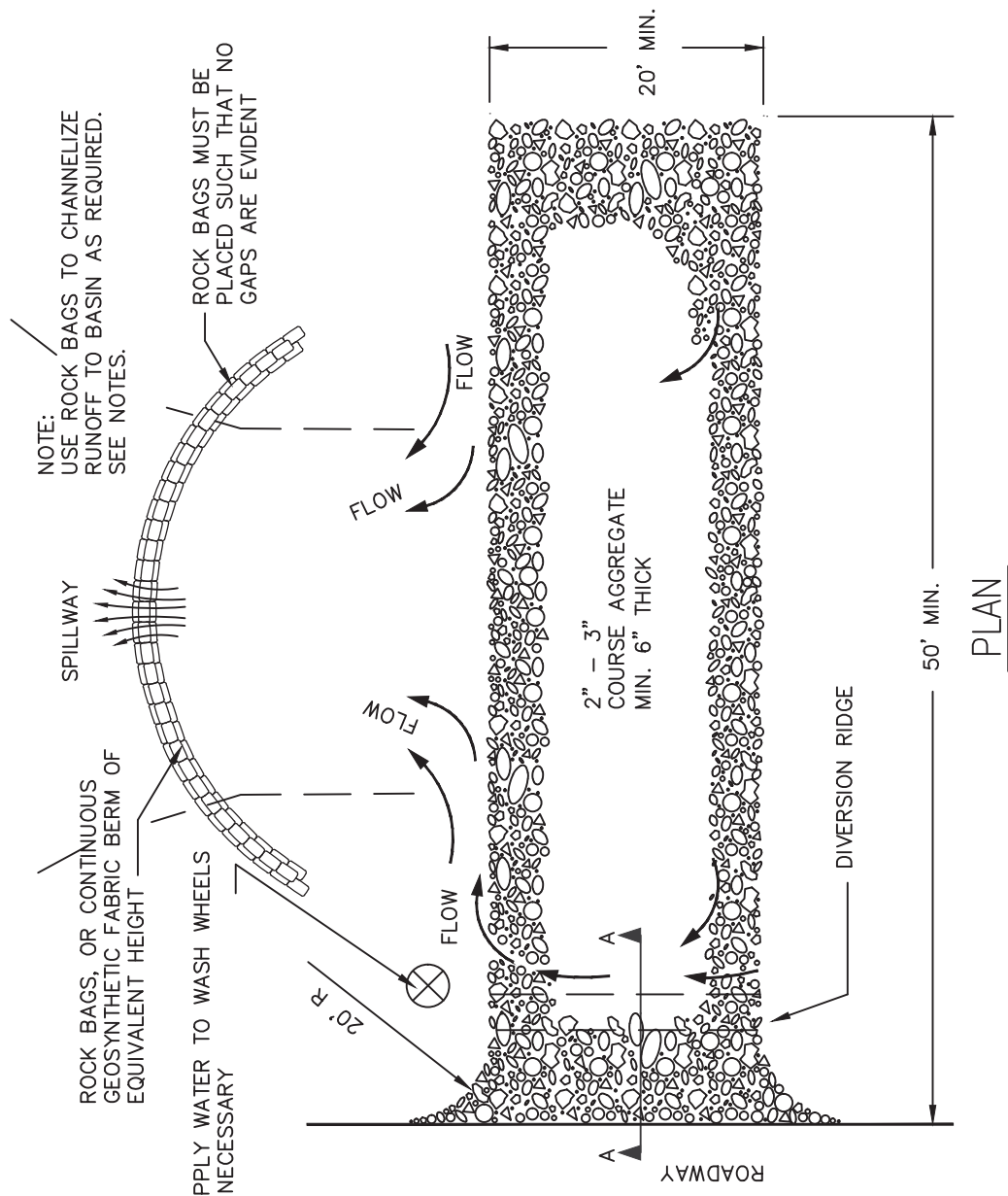
NOTES:

- MUST BE INSTALLED PROPERLY TO AVOID NOTICE OF VIOLATION.
- SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE POUNDING EFFICIENCY.
- INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY. 9" MAXIMUM RECOMMENDED STORAGE HEIGHT.
- REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE TO SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.

1 SILT FENCE DETAIL
N.T.S.



3 ROCK BAG BARRIER DETAIL
N.T.S.



2 GRAVEL DRIVE DETAIL
N.T.S.

NOTES:

- THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS. THIS MAY BE ACCOMPLISHED BY PERMANENTLY STABILIZED AREAS, MATS, TRAP SEDIMENT TRAP SEDIMENT.
- WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO PUBLIC RIGHT-OF-WAY.
- WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.
- ROCK BAGS OR SANDBAGS SHALL BE PLACED SUCH THAT NO GAPS ARE EVIDENT.