

STATE OF ALASKA-DEPARTMENT OF CORRECTIONS
PALMER CORRECTIONAL CENTER

WATER MAIN EXTENSION

9807 E. 58 MILE ROAD, SUTTON, ALASKA
LOT A1, SECTION 36, T19N, R2E, SM

SHEET INDEX

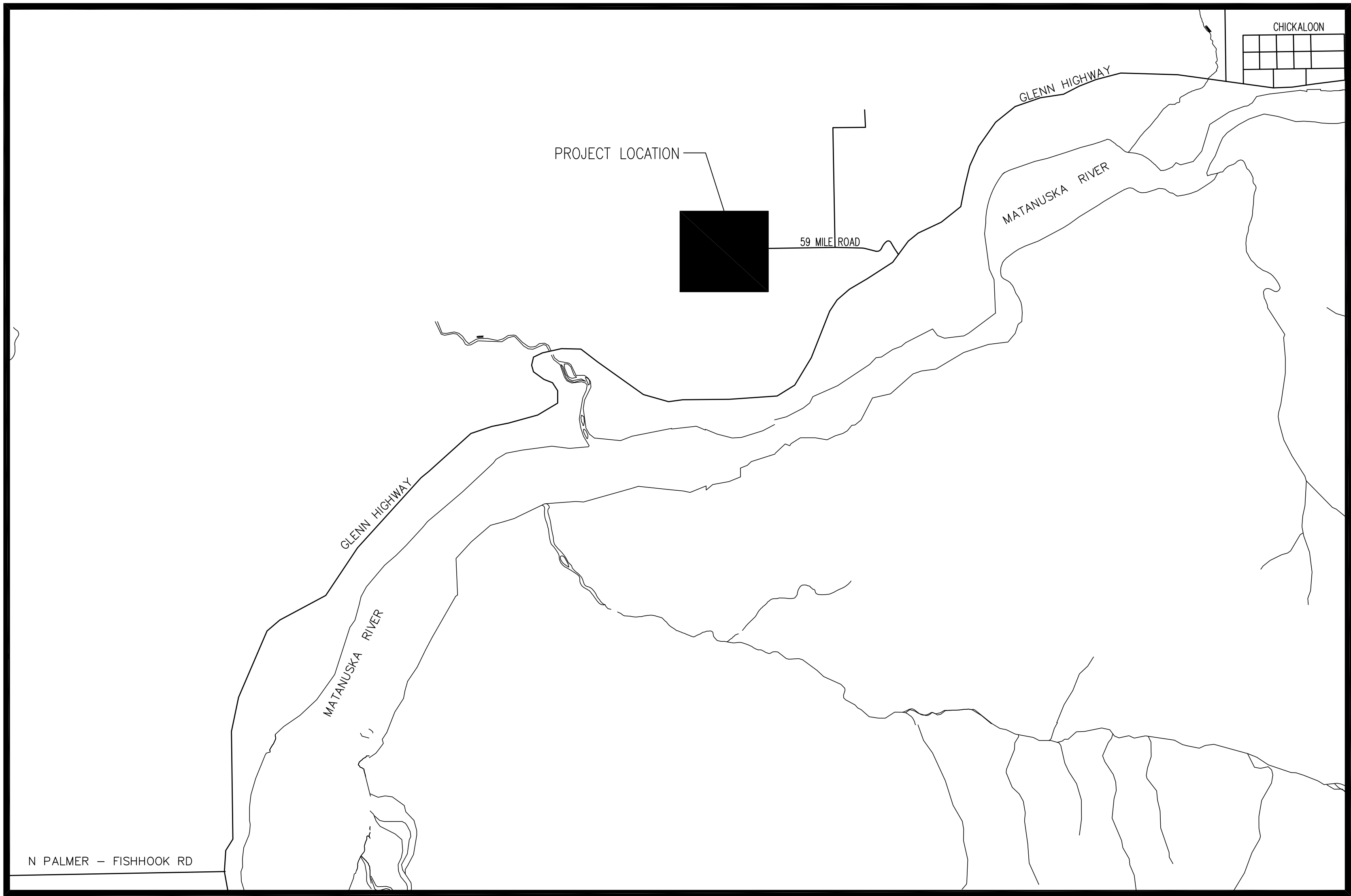
- C0.0 – COVER SHEET
- C0.1 – LEGEND, VICINITY MAP, CIVIL NOTES
- C1.0 – SITE LAYOUT
- C2.0 – WATER MAIN PLAN & PROFILE
- C3.0 – DETAILS

OWNERS REPRESENTATIVE:

SCOTT NICHOLS
FACILITIES MANAGER
550 W. 7TH AVE., SUITE 1240
ANCHORAGE, AK 99501
PH: 907-269-7354
FAX: 907-269-7360

SDCS, LLC
STEINER DESIGN & CONSTRUCTION SERVICES, LLC
5900 W. DEWBERRY DR. PH: (907) 357-5609
WASILLA, AK 99623 FAX: (907) 357-5608



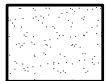
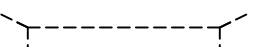
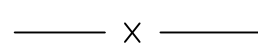
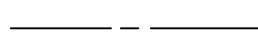
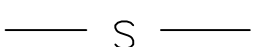


LEGEND

PROPOSED
W



EXISTING
W



WATER LINE

VALVE

FIRE HYDRANT

SANITARY / SEPTIC LINE

SANITARY SEWER MANHOLE

SANITARY SEWER CLEANOUT

STORM DRAIN

CENTERLINE

FENCE

GAS / PROPANE

OVERHEAD UTILITY

UNDERGROUND ELECTRIC

CABLE TV LINE

UNDERGROUND TELEPHONE

UTILITY POILE

CULVERT

GRAVEL ROAD

VICINITY MAP

GENERAL NOTES

- ALL CONSTRUCTION SHALL BE INSTALLED AS SPECIFIED IN THE PLANS AND SPECIFICATIONS ALONG WITH ALL ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION (ADEC) REQUIREMENTS.
- CAUTION, EXISTING UTILITIES SHOWN ARE NOT COMPREHENSIVE. CONTRACTOR SHALL VERIFY LOCATION OF ALL UTILITIES PRIOR TO EXCAVATION / CONSTRUCTION, AND SHALL CALL FOR UTILITY LOCATES A MINIMUM OF TWO UTILITY WORKING DAYS PRIOR TO COMMENCEMENT OF EXCAVATION.
- MAINTAIN A MINIMUM OF 18-INCHES OF VERTICAL SEPARATION BETWEEN ANY SEWER LINES AND AND WATERLINE (MAINS OR SERVICES).
- ALL WATER/SEWER PIPE INSULATION SHALL BE RIGID BOARD, HIGH DENSITY EXTRUDED POLYSTYRENE, MIN. 60 P.S.I., FOR UNDERGROUND INSTALLATIONS EQUIVALENT TO R-20 PER FOUR (4) INCH THICK INSULATION.
- CONTRACTOR SHALL VERIFY AND RECORD THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL UTILITIES ENCOUNTERED IN THE FIELD AND RECORD ANY CHANGES ON THE CONTRACTOR RECORD DRAWINGS.
- THE CONTRACTOR SHALL RESTORE ALL DISTURBED PROPERTY, INCLUDING DRAINAGE SWALES, DISTURBED BY CONTRACT ACTIVITIES TO PRECONSTRUCTION CONDITION.
- THE CONTRACTOR SHALL RECORD SURVEY NOTES FOR SUBMITTAL WITH RECORD DRAWING PLANS PRIOR TO CONTRACT FINAL PAYMENT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR EROSION AND SEDIMENT CONTROLS AS NECESSARY TO COMPLY WITH FEDERAL, STATE, AND MUNICIPAL LAWS THAT PROHIBIT UNPERMITTED DISCHARGE OF POLLUTANTS, INCLUDING SEDIMENTS, THAT ARE A RESULT OF EROSION AND OTHER CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL CONDUCT ALL WORK SO SEDIMENT IS NOT TRANSPORTED ONTO THE ROADWAY OR ADJACENT PROPERTY. AT A MINIMUM, THE CONTRACTOR SHALL SWEEP UP ANY SEDIMENT TRACKED ONTO PAVED SURFACES IN PUBLIC RIGHT-OF-WAY WITHIN 24 HOURS OF THE TRACKING TO MINIMIZE THE WASH-OFF OF SEDIMENT INTO THE STORM DRAINS OR WATERWAYS.
- WATER RESULTING FROM THE CONTRACTOR'S DEWATERING EFFORT MAY NOT BE PUMPED OR OTHERWISE DIVERTED INTO EXISTING STORM DRAINS UNLESS THE CONTRACTOR OBTAINS PERMITS INCLUDING, BUT NOT LIMITED TO, THOSE REQUIRED BY ADEC. IT IS NOT ALLOWABLE UNDER ANY CIRCUMSTANCES FOR THE CONTRACTOR TO DIVERT WATER FROM EXCAVATIONS IN TO ROADWAYS. CONTRACTOR SHALL PROVIDE A DISPOSAL SITE FOR EXCESS WATER AND SHALL BE RESPONSIBLE FOR SECURING ALL NECESSARY PERMITS AND APPROVALS. CONTRACTOR SHALL PROVIDE COPIES OF NECESSARY PERMITS AND APPROVALS TO THE MOA RIGHT OF WAY PERMIT OFFICE.
- ALL FILL AND BACKFILL SHALL BE PLACED IN LIFTS NOT TO EXCEED 12".
- ALL ROAD/DRIVEWAY CLOSURES MUST BE COORDINATED WITH THE OWNER AND CAN NOT EXCEED 12 HOURS.
- THE CONTRACTOR SHALL PROVIDE SECURITY/SAFETY FENCING AROUND THE WORK AREA AT ALL TIMES. SECURITY FENCING SHALL BE CHAIN LINK FENCE PANELS AT LEAST 8' HIGH AND SECURED TO THE GROUND SO THAT 100 MPH WINDS WILL NOT TIP THE FENCING OVER. ACCESS POINTS TO WITHIN THE FENCE SHALL BE LOCKABLE. KEYS TO THE FENCED AREA SHALL BE PROVIDED TO THE OWNER DURING THE PROJECT.

WATER NOTES

- THE OWNER SHALL BE NOTIFIED SEVENTY-TWO (72) HOURS IN ADVANCE OF WATER SERVICE INTERRUPTION. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE TEMPORARY WATER SERVICE TO THE EXISTING CUSTOMERS IF THE OUTAGE EXCEEDS 6-HOURS OR IF DEEMED NECESSARY BY THE ENGINEER. THE CONTRACTOR SHALL HAVE A TEMPORARY WATER SERVICE PLAN REVIEWED AND APPROVED BY ADEC.
- WATER SERVICES SHALL BE PLACED NO CLOSER THAN: 15 FEET HORIZONTALLY MEASURED TO ANY FIRE HYDRANT OR FIRE HYDRANT LEG; 10 FEET HORIZONTALLY MEASURED TO ANY SANITARY SEWER MAIN, SANITARY SEWER SERVICE, STORM SEWER, ELECTRICAL/TELEPHONE/CABLE BOX; AND 5 FEET HORIZONTALLY MEASURED TO ANY SIDE LOT LINE
- ALL WATER SERVICE TRENCHES AND BEDDING SHALL BE COMPACTED TO 95% OF MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180 METHOD D.
- ALL WATER PIPES SHALL HAVE A MINIMUM OF 10 FEET OF BURY AT ALL POINTS.
- ALL PIPE BEDDING SHALL BE 1-1/2" MINUS NFS SOIL.
- ALL RESTRAIN JOINTS SHALL BE MEGA-LUGS.
- FIRE HYDRANTS WILL BE ADJUSTED TO FINAL GRADE BY THE CONTRACTOR
- THE CONTRACTOR SHALL PROVIDE ALL SETUP AND TEAR DOWN REQUIRED TO OPEN BORE FLUSH WATER THE CONTRACTOR MUST REQUEST WATER AT LEAST 48 HOURS PRIOR TO OPEN BORE FLUSHING.
- ALL PARTS AND PIECES OF THE OF THE WATER SYSTEM MUST BE NFS 61 CERTIFIED.
- ALL PARTS AND PIECES OF THE OF THE WATER SYSTEM MUST BE 100% LEAD FREE.
- INSTALL DETECTABLE WARNING TAPE ABOVE ALL WATER PIPES PER THE SPECIFICATIONS.
- INSTALL TRACER WIRE FOR HDPE PIPE PER THE SPECIFICATIONS.
- EXACT LOCATIONS OF EXISTING WATER LINES ARE UNKNOWN.

SURVEY NOTES

- DESIGN IS BASED ON SURVEY INFORMATION PROVIDED FROM PREVIOUS PROJECT. NO NEW SURVEY WAS PERFORMED FOR THIS PROJECT.
- ELEVATION CONTROL IS THE FINISHED FLOOR OF THE PUMP HOUSE FOR THE 350,000 GALLON WATER TANK. FINISH FLOOR ELEVATION = 828.42'.



SDCS, LLC
STENER DESIGN & CONSTRUCTION SERVICES, LLC
5900 W DEWBERRY DR. PH: (907) 357-5609
WASILLA, AK 99623 FAX: (907) 357-5608

STATE OF ALASKA-DEPARTMENT OF CORRECTIONS
PALMER CORRECTIONAL CENTER
WATER MAIN EXTENSION
9807 E. 58 MILE ROAD, SUTTON, ALASKA
LOT A1, SECTION 36, T19N, R2E, SM

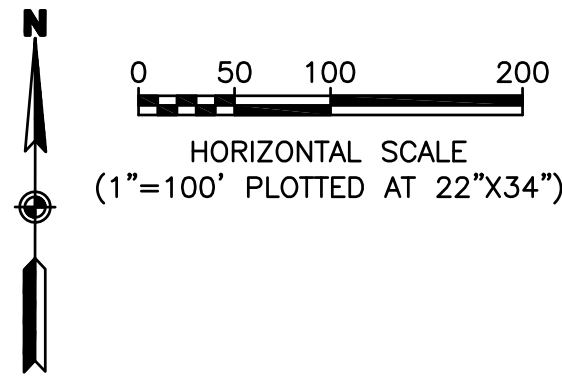
BY	DATE	REVISIONS

JOB NO.:	14-006
DATE:	7/22/14
DRAWN:	DES
REVIEWED:	DES

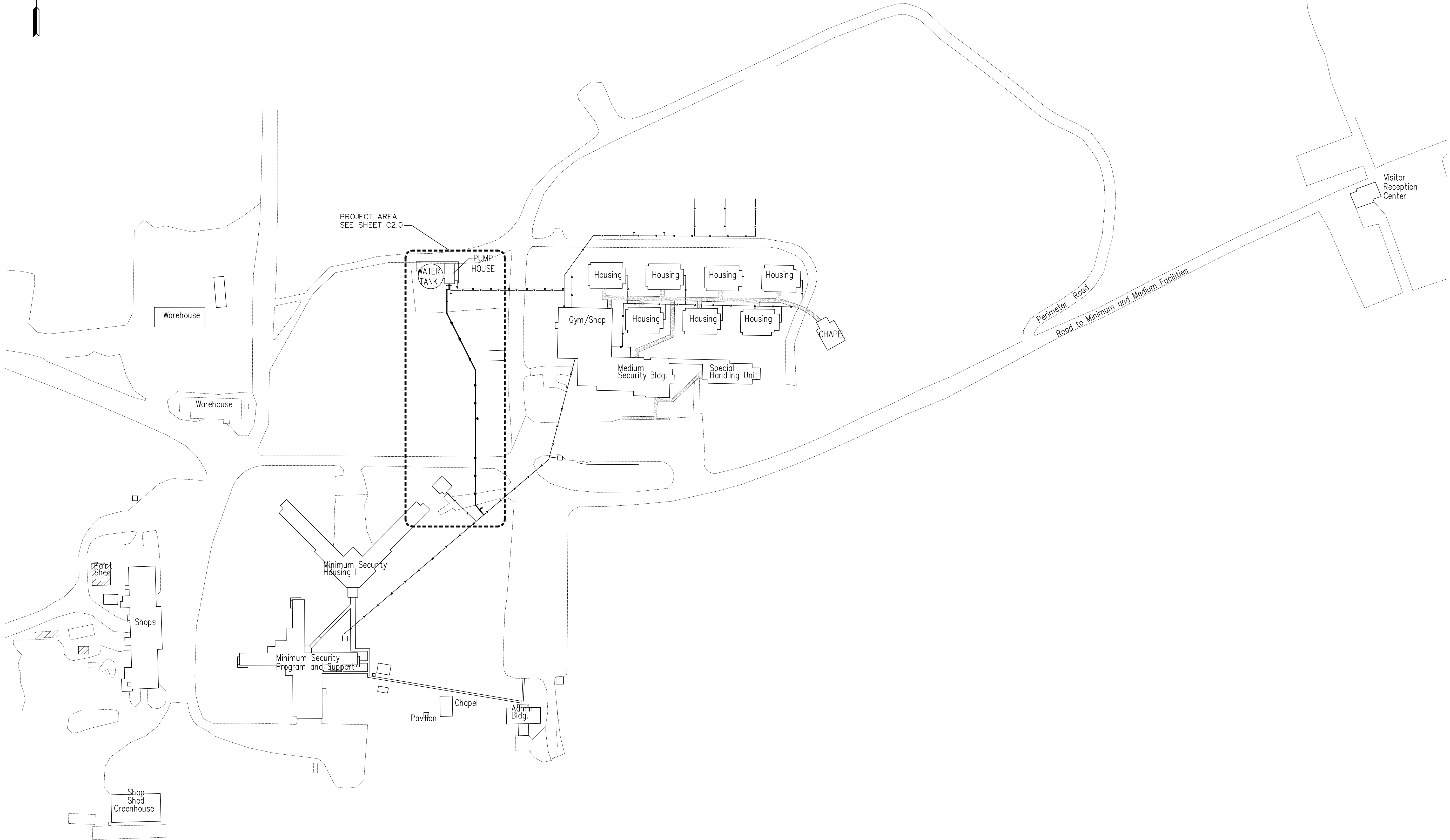
SHEET TITLE
GENERAL NOTES
LEGEND
VICINITY MAP

SHEET

C0.1



NOTES
1. SEE SHEET C0.1 FOR GENERAL WATER NOTES AND KEY MAP.



SDCS, LLC
STENER DESIGN & CONSTRUCTION SERVICES, LLC
5900 W. DEWBERRY DR. PH: (907) 357-5609
WASILLA, AK 99623 FAX: (907) 357-5608

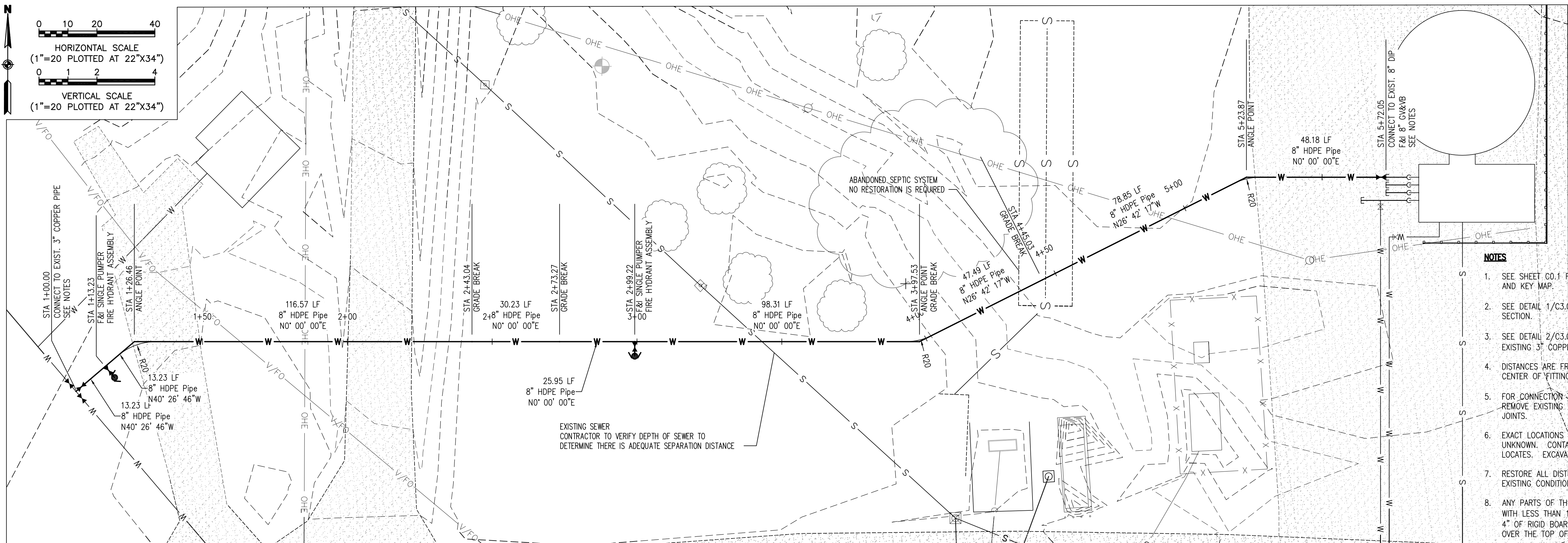
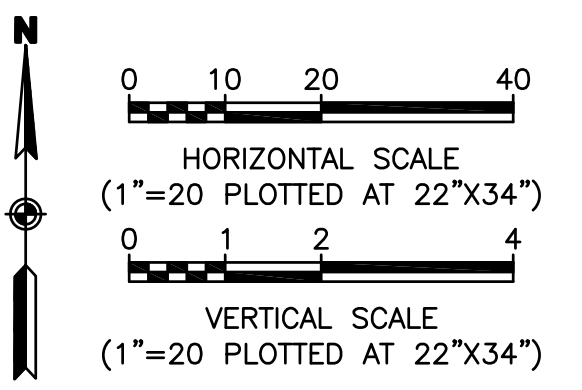
STATE OF ALASKA-DEPARTMENT OF CORRECTIONS
PALMER CORRECTIONAL CENTER
WATER MAIN EXTENSION
9807 E. 58 MILE ROAD, SUTTON, ALASKA
LOT A1, SECTION 36, T19N, R2E, SM

BY	DATE	REVISIONS

JOB NO.: 14-006
DATE: 7/22/14
DRAWN: DES
REVIEWED: DES

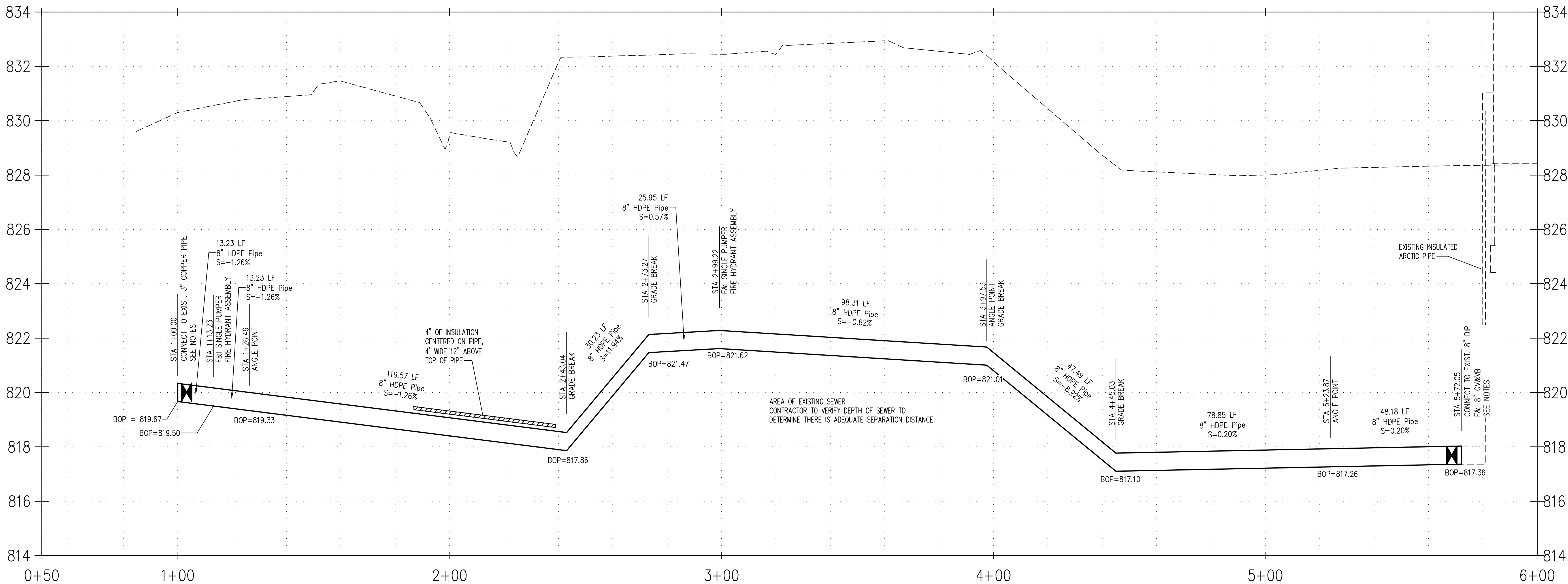
SHEET TITLE
SITE LAYOUT

SHEET
C1.0



NOTES

1. SEE SHEET CO.1 FOR GENERAL WATER NOTES AND KEY MAP.
2. SEE DETAIL 1/C3.0 FOR TYPICAL TRENCH SECTION.
3. SEE DETAIL 2/C3.0 FOR CONNECTION TO EXISTING 3" COPPER PIPE.
4. DISTANCES ARE FROM CENTER OF FITTING TO CENTER OF FITTING.
5. FOR CONNECTION TO EXISTING 8" DIP, REMOVE EXISTING PLUG AND RESTRAIN ALL JOINTS.
6. EXACT LOCATIONS OF EXISTING UTILITIES UNKNOWN. CONTACT THE OWNER FOR UTILITY LOCATES. EXCAVATE WITH CAUTION.
7. RESTORE ALL DISTURBED IMPROVEMENTS TO EXISTING CONDITIONS.
8. ANY PARTS OF THE WATER LINE OR FITTINGS WITH LESS THAN 10" OF COVER SHALL HAVE 4" OF RIGID BOARD INSULATION INSTALLED OVER THE TOP OF THE PIPE OR FITTINGS.



SDCS, LLC
STEINER DESIGN & CONSTRUCTION SERVICES, LLC
5900 W DEWBERRY DR. PH: (907) 357-5609
WASILLA, AK 99623 FAX: (907) 357-5608

STATE OF ALASKA-DEPARTMENT OF CORRECTIONS
PALMER CORRECTIONAL CENTER
WATER MAIN EXTENSION
9807 E. 58 MILE ROAD, SUTTON, ALASKA
LOT A1, SECTION 36, T19N, R2E, SM

BY	DATE	REVISIONS

JOB NO.: 14-006
DATE: 7/22/14
DRAWN: DES
REVIEWED: DES

SHEET TITLE
WATER MAIN
EXTENSION
PLAN & PROFILE

SHEET
C2.0



SDCS, LLC
STEINER DESIGN & CONSTRUCTION SERVICES, LLC
5900 W. DEWBERRY DR. PH: (907) 357-5609
WASILLA, AK 99623 FAX: (907) 357-5608

STATE OF ALASKA—DEPARTMENT OF CORRECTIONS
PALMER CORRECTIONAL CENTER
WATER MAIN EXTENSION
9807 E. 58 MILE ROAD, SUTTON, ALASKA
LOT A1, SECTION 36, T19N, R2E, 5M

BY	DATE	REVISIONS

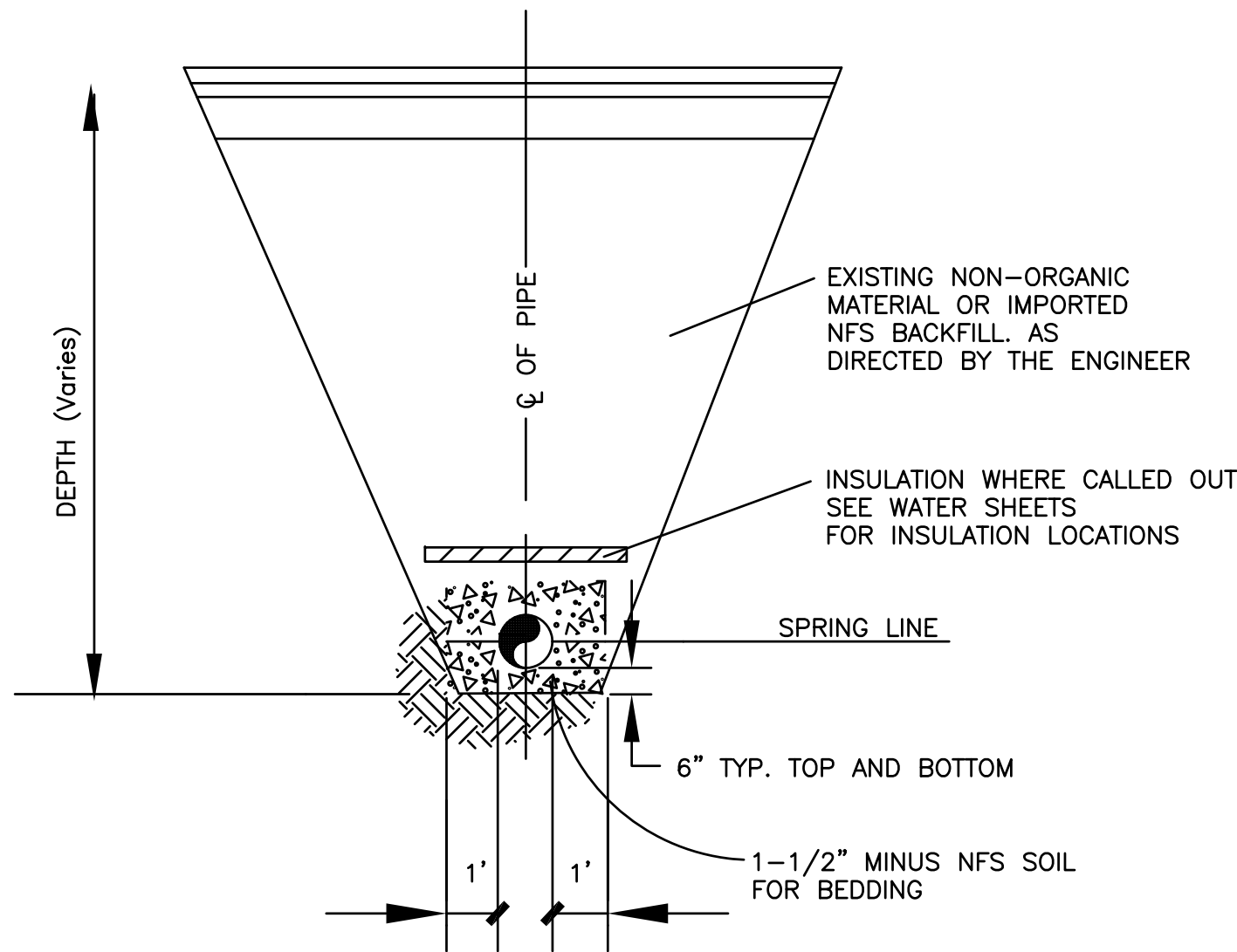
JOB NO.: 14-006
DATE: 7/22/14
DRAWN: DES
REVIEWED: DES

SHEET TITLE
CIVIL DETAILS

SHEET
C3.0

NOTES

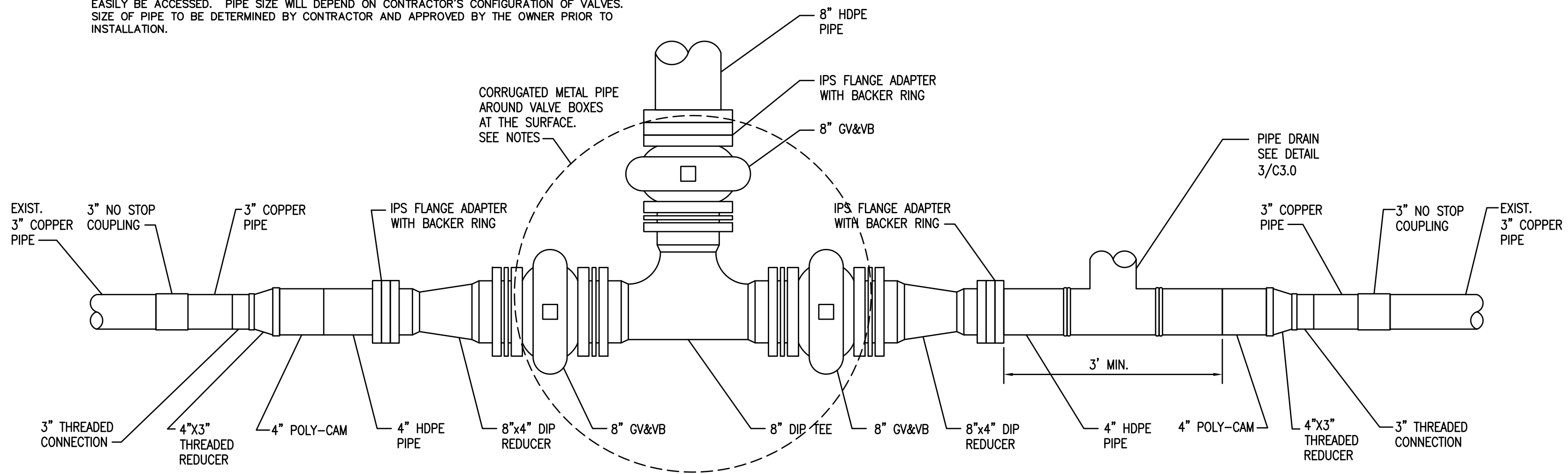
- SLOPE TRENCH WALLS ACCORDING TO THE SOILS CONDITIONS AND SAFETY STANDARDS (O.S.H.A.).
- ALL BACKFILL SHALL ACHIEVE A MINIMUM OF 95% COMPACTION AS DETERMINED BY ASTM-D1557.
- REPLACE ANY INSULATION ENCOUNTERED WITHIN THE ROAD SECTION WITH LIKE KIND AND THICKNESS.



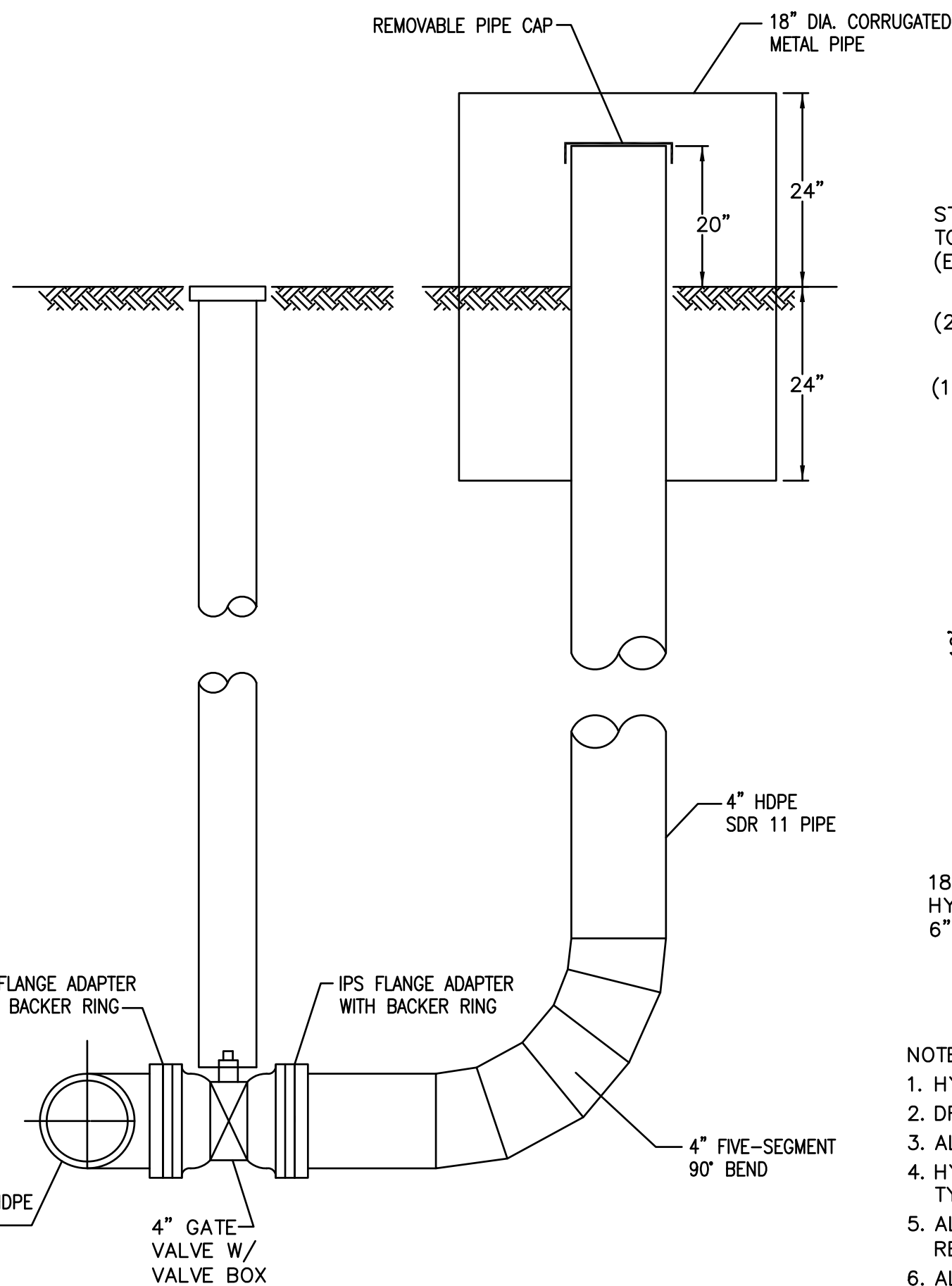
1 TYPICAL TRENCH SECTION
C3.0 SCALE: NOT TO SCALE

NOTES

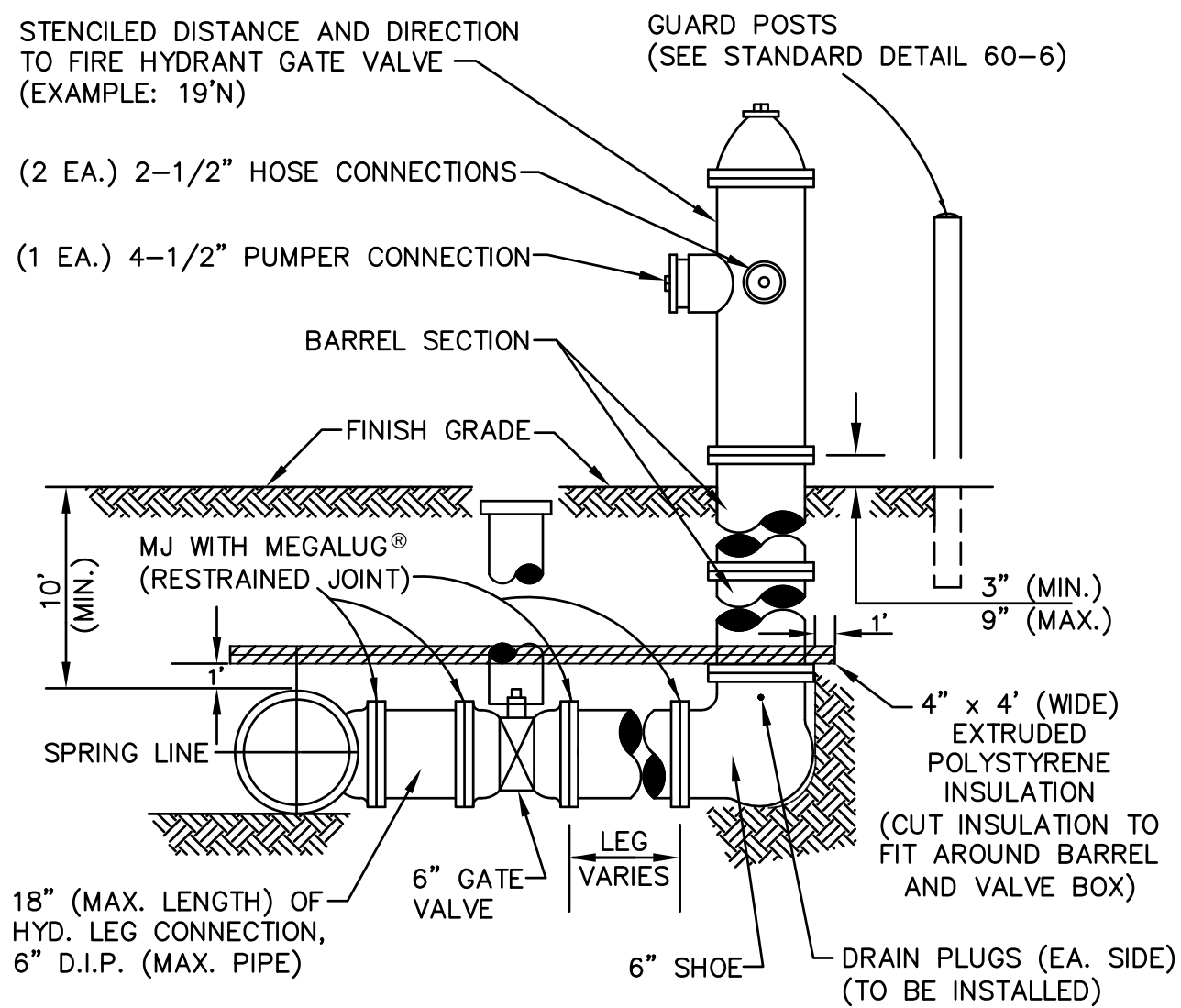
- ALL DUCTILE IRON PIPE AND FITTINGS SHALL BE CLASS 52.
- ALL HDPE PIPE AND FITTINGS SHALL BE SDR 11.
- ALL DIP FITTINGS SHALL BE RESTRAINED.
- ALL DIP FITTINGS SHALL BE MECHANICAL JOINTS.
- CONNECTION BETWEEN DIP FITTINGS TO BE DONE WITH FOSTER ADAPTORS.
- ALL PARTS AND PIECES USED IN CONNECTION MUST BE NFS 61 CERTIFIED.
- ALL PARTS AND PIECES USED IN CONNECTION, INCLUDING SOLDER, MUST BE 100% LEAD FREE.
- PLACE CORRUGATED METAL PIPE AT SURFACE SURROUNDING VALVE BOXES WITH 24\"/>



2 CONNECTION TO 3" COPPER PIPE
C3.0 SCALE: NOT TO SCALE

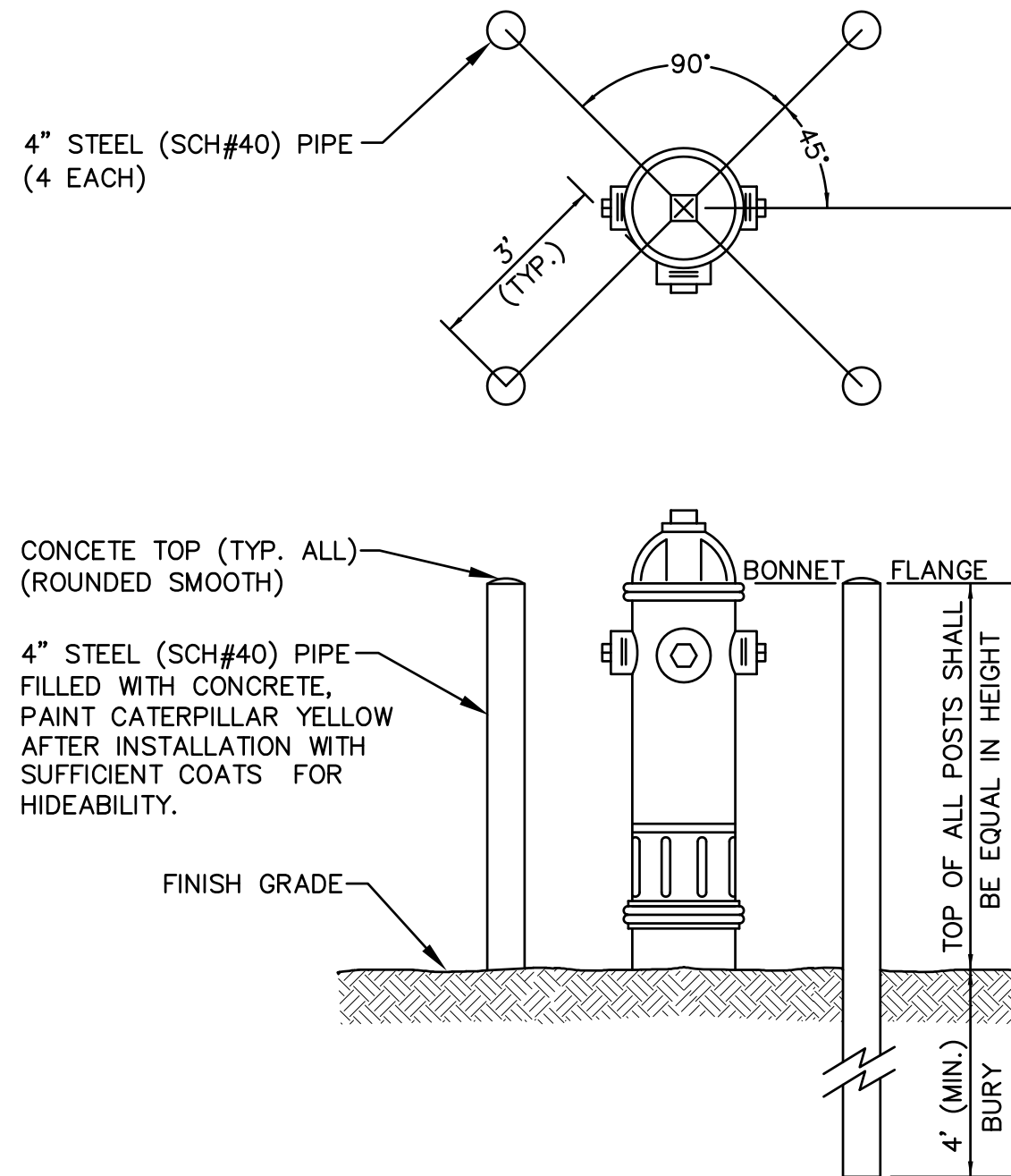


3 PIPE DRAIN
C3.0 SCALE: NOT TO SCALE



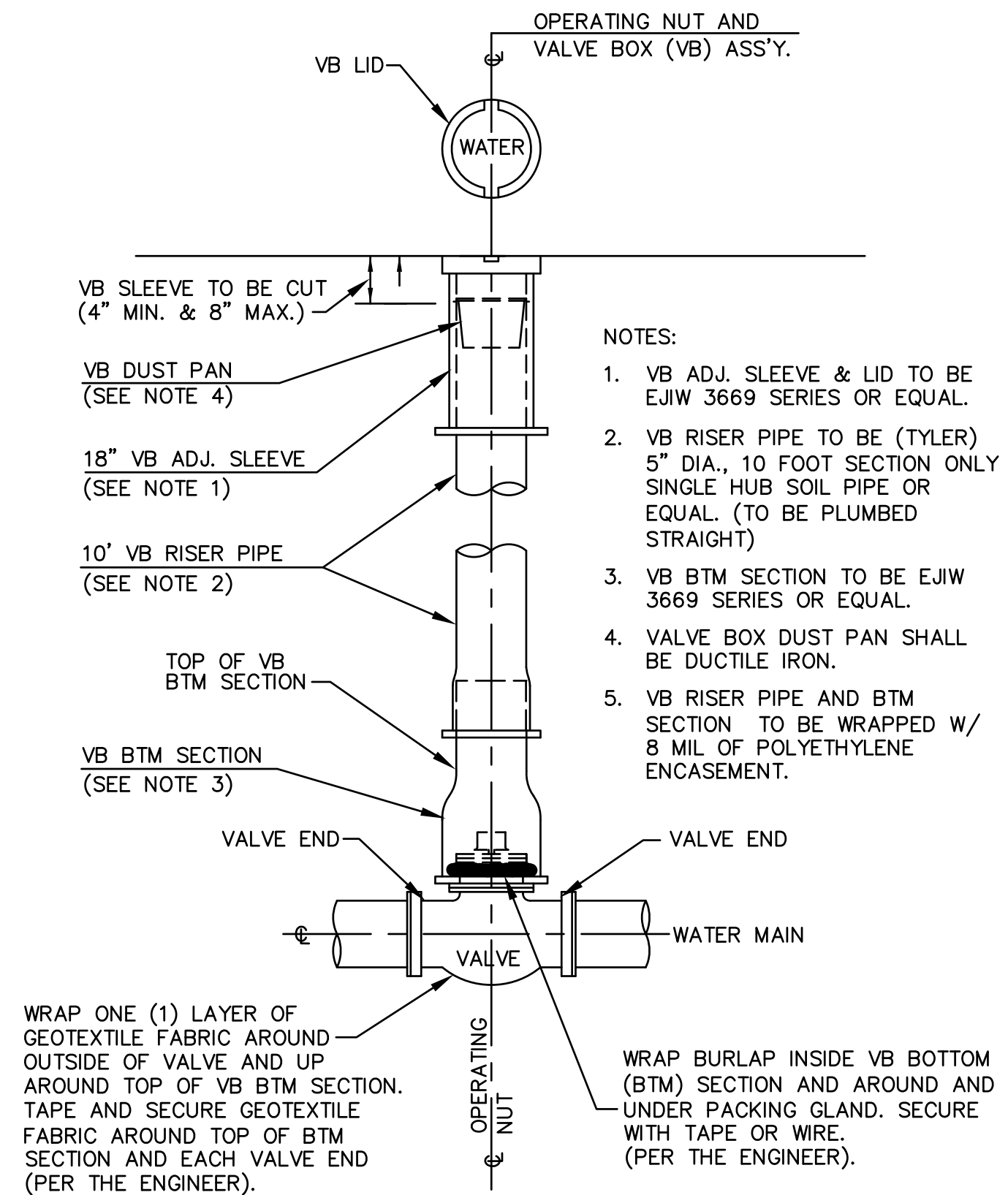
- NOTES:
- HYDRANT BARREL SHALL BE INSTALLED PLUMB AND THE LEG SHALL BE LEVEL.
 - DRAIN PLUGS TO BE PROVIDED BY CONTRACTOR.
 - ALL HYDRANTS SHALL BE PAINTED CATERPILLAR YELLOW.
 - HYDRANT GATE VALVE BOX TO BE INSTALLED ACCORDING TO DETAIL FOR TYPICAL VALVE BOX.
 - ALL PIPE AND FITTINGS FROM THE MAIN TO THE HYDRANT SHOE SHALL BE RESTRAINED BY USE OF MEGALUG® AND/OR FIELD LOK® GASKETS OR EQUAL.
 - ALL BACKFILL MATERIAL AROUND HYDRANT BARREL SHALL BE NFS.

4 SINGLE PUMPER FIRE HYDANT ASSEMBLY
C3.0 SCALE: NOT TO SCALE



- NOTES:
- GUARD POSTS WILL BE FURNISHED & INSTALLED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER.
 - GUARD POSTS SHALL BE INSTALLED PLUMB AND LOCATED TO ALLOW UNRESTRICTED ACCESS TO PUMPER AND HOSE CONNECTIONS.

5 GUARD POSTS
C3.0 SCALE: NOT TO SCALE



- NOTES:
- VB ADJ. SLEEVE & LID TO BE EJIW 3669 SERIES OR EQUAL.
 - VB RISER PIPE TO BE (TYLER) 5\"/>

6 VALVE BOX
C3.0 SCALE: NOT TO SCALE