

**LEGEND**

- PROPOSED PC CONCRETE SIDEWALK / PATIO PER XX/C9.XX. WORK TO BE PERFORMED PER SECTION 32 1313 OF THE PROJECT SPECIFICATIONS. SIDEWALK IMPROVEMENTS IN PUBLIC R/W SHALL BE PER CITY OF CITY OF TAHLEQUAH STANDARDS AND SPECIFICATIONS.
- HEAVY-DUTY PAVING SECTION PER XX/C9.XX AND SECTION XXXXX / XXXXX OF THE PROJECT SPECIFICATIONS. IN THE EVENT THAT A RIGID PAVING SECTION IS SELECTED BY THE OWNER, CONTRACTOR TO PROVIDE FINAL JOINT LAYOUT TO ENGINEER FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION. EXPANSION AND CONTRACTION JOINTS TO BE CONSTRUCTED PER XX/C9.XX AND XX/C9.XX, RESPECTIVELY.
- LIGHT-DUTY PAVING SECTION PER XX/C9.XX AND SECTION XXXXX / XXXXX OF THE PROJECT SPECIFICATIONS. IN THE EVENT THAT A RIGID PAVING SECTION IS SELECTED BY THE OWNER, CONTRACTOR TO PROVIDE FINAL JOINT LAYOUT TO ENGINEER FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION. EXPANSION AND CONTRACTION JOINTS TO BE CONSTRUCTED PER XX/C9.XX AND XX/C9.XX, RESPECTIVELY.
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- PROPOSED LANDSCAPE BED. SEE LANDSCAPE DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL DETAIL AND INFORMATION.

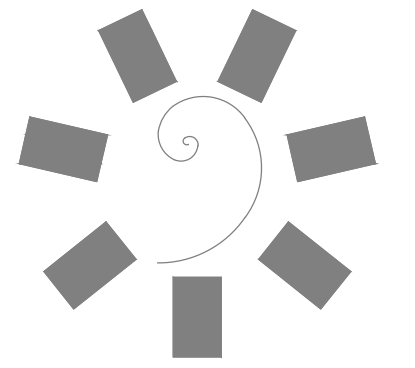
**UTILITY PLAN KEYNOTES**

| ID    | DESCRIPTION  |
|-------|--|
| 2.10a | PROPOSED POINT OF ENTRY ONTO PROPERTY FOR PRIMARY ELECTRICAL EXTENSION TO BE COMPLETED BY ELECTRICAL SERVICE PROVIDER. CONTRACTOR SHALL COORDINATE WORK IN AREA AS REQUIRED.   |
| 2.10b | PROPOSED LOCATION OF PRIMARY ELECTRICAL EXTENSION. WORK TO BE COMPLETED BY ELECTRICAL SERVICE PROVIDER. CONTRACTOR SHALL COORDINATE WORK IN AREA ACCORDINGLY.  |
| 2.10c | PROPOSED PRIMARY ELECTRICAL VAULT. WORK TO BE COMPLETED BY ELECTRICAL SERVICE PROVIDER. CONTRACTOR SHALL COORDINATE WORK IN AREA ACCORDINGLY.  |
| 2.10d | PROPOSED TRANSFORMER PAD FOR ELECTRICAL SERVICE PROVIDER REQUIREMENTS. SEE ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL DETAIL AND INFORMATION.   |
| 2.10e | PROPOSED LOCATION OF SECONDARY ELECTRICAL EXTENSION. WORK TO BE COMPLETED BY ELECTRICAL CONTRACTOR. SEE ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL DETAIL AND INFORMATION.  |
| 2.20a | PROPOSED POINT OF ENTRY ONTO PROPERTY FOR GAS SERVICE. EXTENSION TO BE COMPLETED BY GAS SERVICE PROVIDER. CONTRACTOR SHALL COORDINATE WORK IN AREA AS REQUIRED.  |
| 2.20b | PROPOSED LOCATION OF GAS SERVICE EXTENSION. WORK TO BE COMPLETED BY GAS SERVICE PROVIDER. CONTRACTOR SHALL COORDINATE WORK IN AREA ACCORDINGLY.  |
| 2.20c | PROPOSED GAS METER LOCATION. METER INSTALLATION SHALL BE PER IFGC AND SHALL BE COMPLETED BY GAS SERVICE PROVIDER. CONTRACTOR SHALL COORDINATE WORK IN AREA. SEE MEP DOCUMENTS FOR CONTINUATION.                                  |
| 2.50a | STORM SEWER LINE A (BID PACKAGE 01) - NOT IN CONTRACT. SEE BID PACKAGE 01 DOCUMENTS FOR ADDITIONAL DETAIL AND INFORMATION.   |
| 2.60a | SANITARY SEWER LINE A. SEE SANITARY SEWER INDEX, SHEET C6.02b, FOR ADDITIONAL DETAIL AND INFORMATION.  |
| 2.60b | SANITARY SEWER LINE B. SEE SANITARY SEWER INDEX, SHEET C6.02b, FOR ADDITIONAL DETAIL AND INFORMATION.  |
| 2.70a | WATER LINE A. SEE WATER INDEX, SHEET C7.02b, FOR ADDITIONAL DETAIL AND INFORMATION.  |
| 2.70b | WATER LINE B. SEE WATER INDEX, SHEET C7.02b, FOR ADDITIONAL DETAIL AND INFORMATION.  |
| 2.70c | WATER LINE C. SEE WATER INDEX, SHEET C7.02b, FOR ADDITIONAL DETAIL AND INFORMATION.  |
| 2.70d | WATER LINE D. SEE WATER INDEX, SHEET C7.02b, FOR ADDITIONAL DETAIL AND INFORMATION.  |
| 2.80a | PROPOSED POINT OF ENTRY ONTO PROPERTY FOR TELECOMM. SERVICE EXTENSION TO BE COMPLETED BY TELECOMM. SERVICE PROVIDER(S). CONTRACTOR SHALL COORDINATE WORK IN AREA AS REQUIRED.  |
| 2.80b | PROPOSED TELECOMM. SERVICE EXTENSION. INSTALL THREE (3) 4-IN SCH40 PVC CONDUITS @ 30-IN BELOW FINAL PAVING SUBGRADE. CONTRACTOR TO PROVIDE 18-IN PULL-STRING IN EACH CONDUIT FOR LATER SERVICE EXTENSION BY SERVICE PROVIDER(S). |
| 2.80c | PROPOSED TELECOMM. PULL BOX PER SERVICE PROVIDER REQUIREMENTS. CONTRACTOR TO PROVIDE AND INSTALL PULL-BOX. TOP OF PULL-BOX SHALL BE FLUSH WITH FINAL FINISHED GRADE IN AREA.   |
| 2.80d | END TELECOMM. SERVICE EXTENSION. SEE MEP/IT DOCUMENTS FOR CONTINUATION TO DEMARK POINT.  |
| 2.80e | PROPOSED TELECOMM. SERVICE EXTENSION. INSTALL TWO (2) 4-IN SCH40 PVC CONDUITS @ 30-IN BELOW FINAL PAVING SUBGRADE. CONTRACTOR TO PROVIDE 18-IN PULL-STRING IN EACH CONDUIT FOR LATER SERVICE EXTENSION BY SERVICE PROVIDER(S).   |

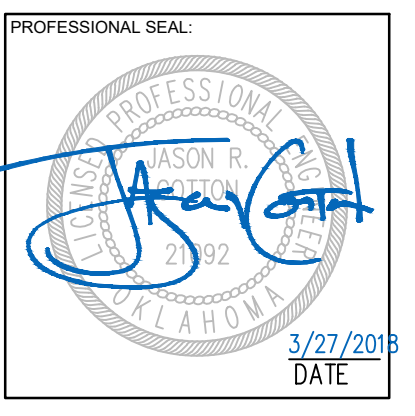
NOTE TO CONTRACTOR: COORDINATE DATA HAS BEEN TRUNCATED FOR CLARITY. STATE PLANE COORDINATES MAY BE OBTAINED BY ADDING 330,000 TO ALL PROVIDED NORTHINGS, AND 2,860,000 TO ALL PROVIDED EASTINGS.

UTILITY WARNING:  
THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM RECORD DOCUMENTS OR FIELD LOCATIONS BY THE OPERATOR. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH THE SURVEYOR DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM THE INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES.

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W www.adgokc.com  
CA 6447, exp. 06.30.2018

CLIENT:  
**CHEROKEE NATION**  
Entertainment  
**Cherokee**  
CASINO

**CHEROKEE NATION ENTERTAINMENT  
TAHLEQUAH CASINO**  
TAHLEQUAH, OKLAHOMA

PROJECT PHASE:  
**BID PACKAGE 02  
(100% SET)**

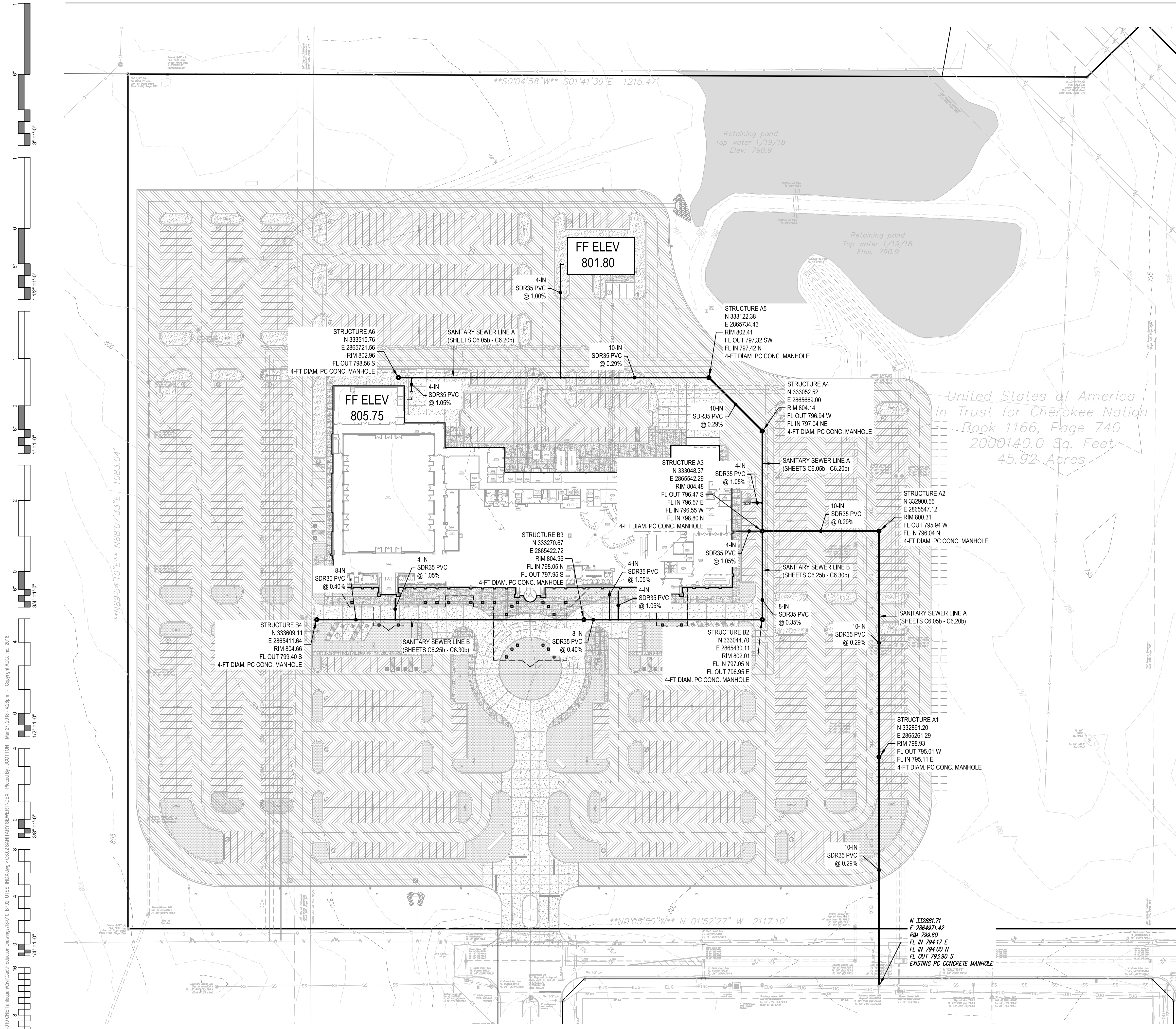
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| #         | DATE | DESCRIPTION |
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| DATE:         | 03/27/18 | JOB NUMBER: | 17-06 |
| SHEET NUMBER: | C2.02b   |             |       |

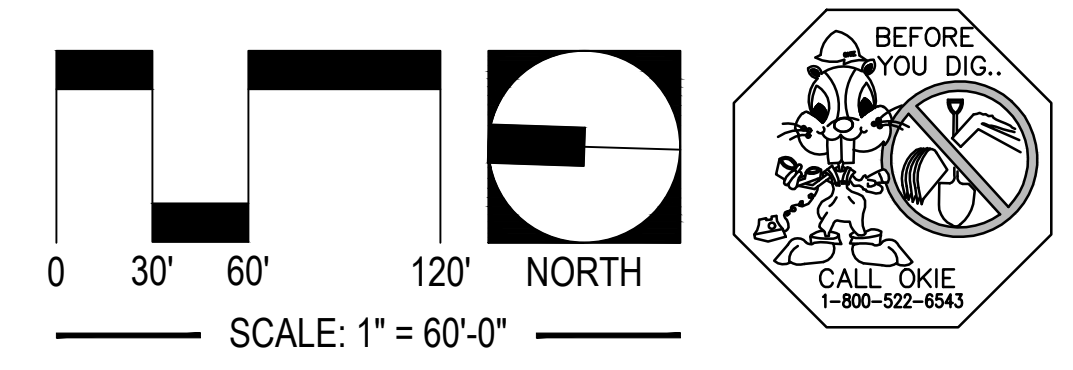
**C2.02b**  
UTILITY PLAN INDEX

**01 PLAN VIEW: INSET**  
SCALE: AS SHOWN

Drawing name: P:\161010\ONE Tahlequah\CD\Production Drawings\161010\_B02\_UPI\AN\_IND.dwg > C2.02b UTILITY PLAN INDEX. Printed By: J.COTTON. Mar 27, 2018 - 10:05am. Copyright ADG, Inc. 2018



- ### LEGEND
- PROPOSED PC CONCRETE SIDEWALK / PATIO PER XX(C9).XX. WORK TO BE PERFORMED PER SECTION 32 1313 OF THE PROJECT SPECIFICATIONS. SIDEWALK IMPROVEMENTS IN PUBLIC ROW SHALL BE PER CITY OF CITY OF TAHLEQUAH STANDARDS AND SPECIFICATIONS.
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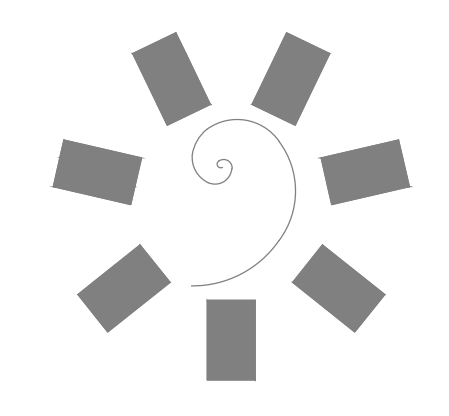


UTILITY WARNING:  
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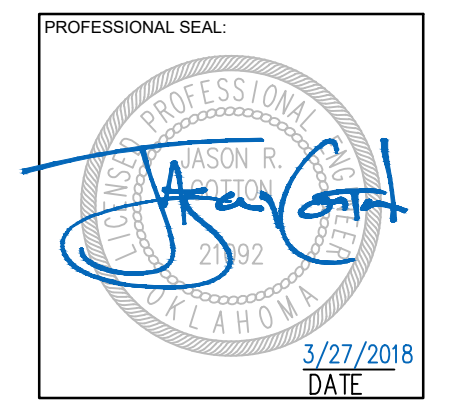
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Drawing name: P:\161010 ONE Tahlequah\Civil\Production Drawings\161010\_B02\_UTS\_IND.dwg - C6.02 SANITARY SEWER INDEX Plotted By: JDOTTON Mar 27, 2018 - 4:26pm - Copyright ADG, Inc. 2018

**01 PLAN VIEW: INSET**  
SCALE: AS SHOWN



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CA 6447, exp. 06.30.2018

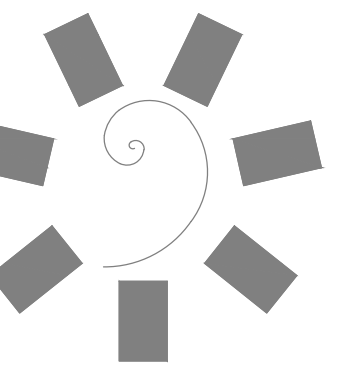
CLIENT:

**CHEROKEE NATION ENTERTAINMENT  
TAHLEQUAH CASINO**  
TAHLEQUAH, OKLAHOMA

PROJECT PHASE:  
**BID PACKAGE 02  
(100% SET)**

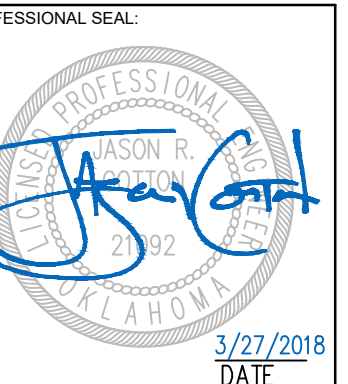
| REVISIONS |      |             |
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|           |      |             |

DATE: **03/27/18** JOB NUMBER: **17-06**  
SHEET NUMBER: **C6.02b**  
**SANITARY SEWER INDEX**



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CLIENT:



CHEROKEE NATION ENTERTAINMENT  
TAHLEQUAH CASINO  
TAHLEQUAH, OKLAHOMA

PROJECT PHASE:  
BID PACKAGE 02  
(100% SET)

| REVISIONS |      |             |
|-----------|------|-------------|
| #         | DATE | DESCRIPTION |
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DATE: 03/27/18 JOB NUMBER: 17-06

SHEET NUMBER:

C6.05b

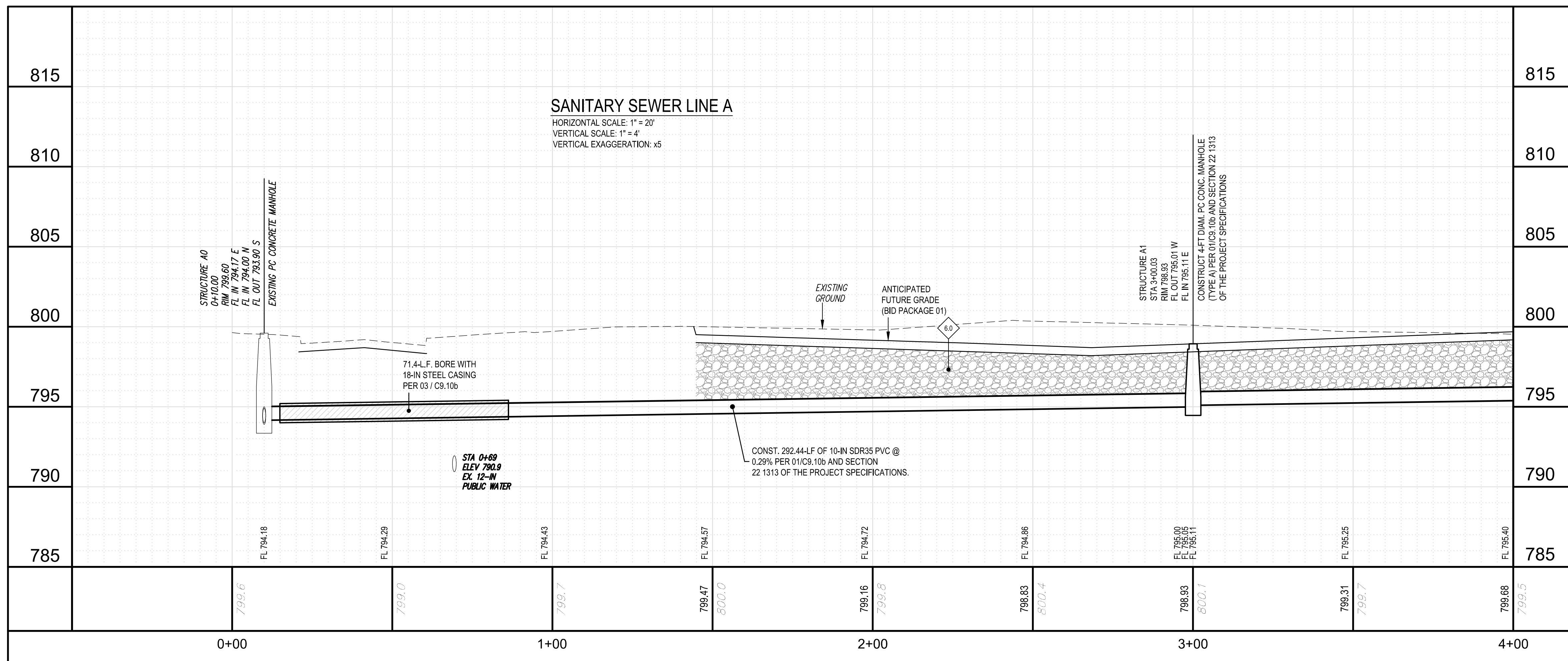
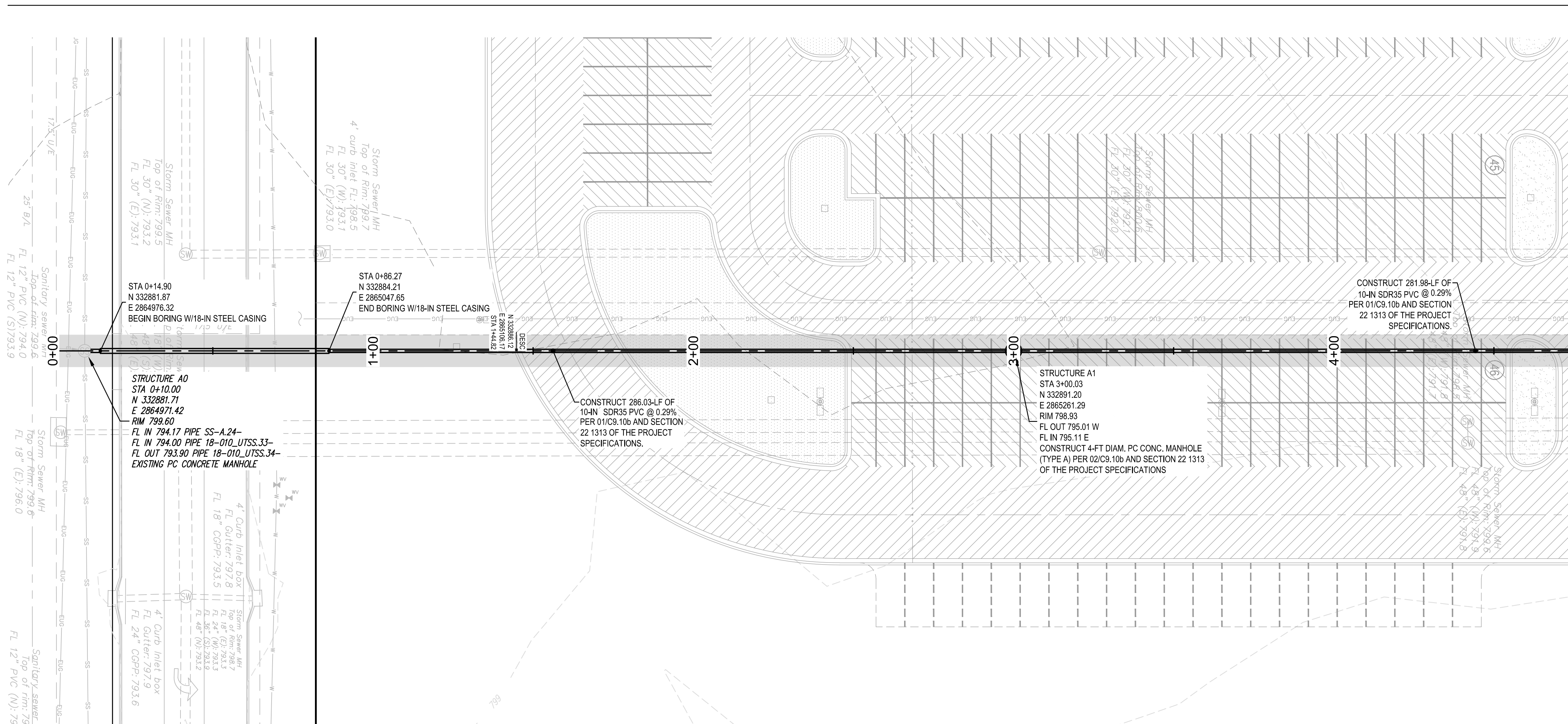
SANITARY SEWER  
PLAN AND PROFILE -  
LINE A

### CIVIL LEGEND

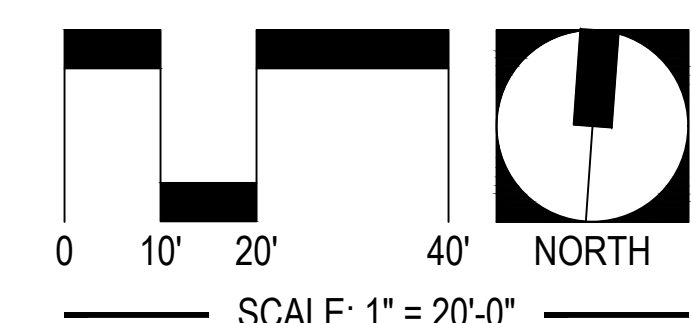
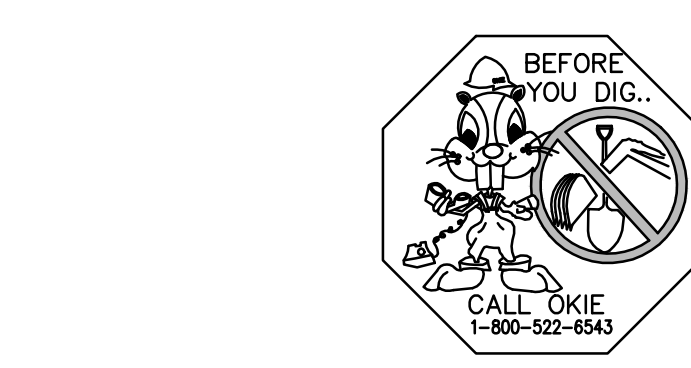
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### SANITARY SEWER KEYNOTE TABLE

| ID  | DESCRIPTION  |
|-----|--|
| 6.0 | CLASS 1 OR II MATERIAL MEETING THE REQUIREMENTS FOR TYPE A AGGREGATE BASE PER THE REQUIREMENTS OF THE GEOTECHNICAL ENGINEER AND 01 - 02/C9.05a. PLACEMENT AND COMPACTION SHALL MEET THE REQUIREMENTS OF THE PIPE MANUFACTURER AND THE GEOTECHNICAL REPORT. AGGREGATE BACKFILL SHALL EXTEND TO BOTTOM OF FUTURE PAVING. |



| Station | Elevation |
|---------|-----------|
| 0+00    | 795.6     |
| 1+00    | 799.0     |
| 2+00    | 799.16    |
| 3+00    | 799.31    |
| 4+00    | 799.5     |

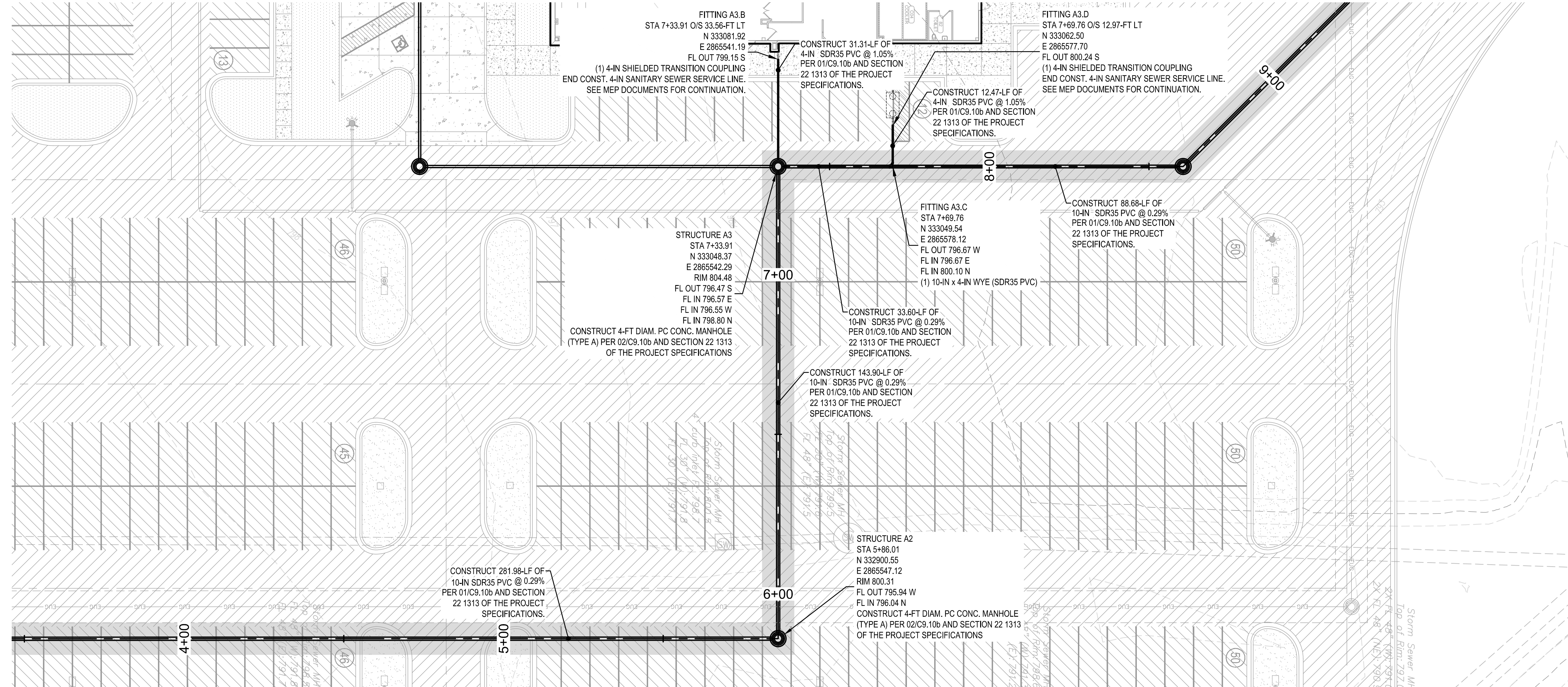


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Drawing name: P:\181010 ONE Tahlequah\Civil\Production Drawings\181010\_BID2\_UTSS.dwg - 0218b SANITARY SEWER PLAN AND PROFILE - LINE A. Plotted By: JCDOTTON Mar 27, 2018 - 8:07pm. Copyright: ADG, Inc. 2018

Drawing name: P:\181010 ONE (TahlequahCasino)Drawings\181010\_B02\_LITS.dwg - 05:10 SANITARY SEWER PLAN AND PROFILE - LINE A (CONT) - Plotted by: AUTOCAD - Mar 27, 2018 - 5:43pm - Copyright ADG, Inc. 2018

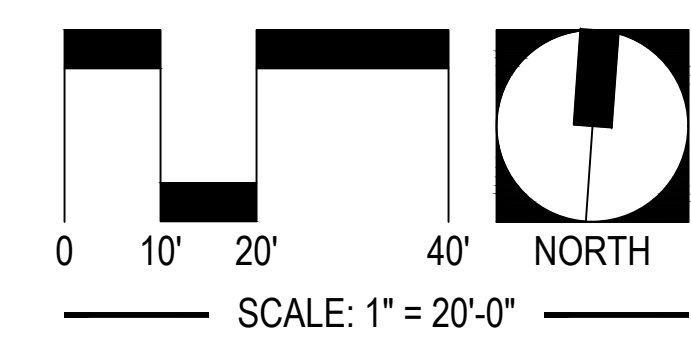
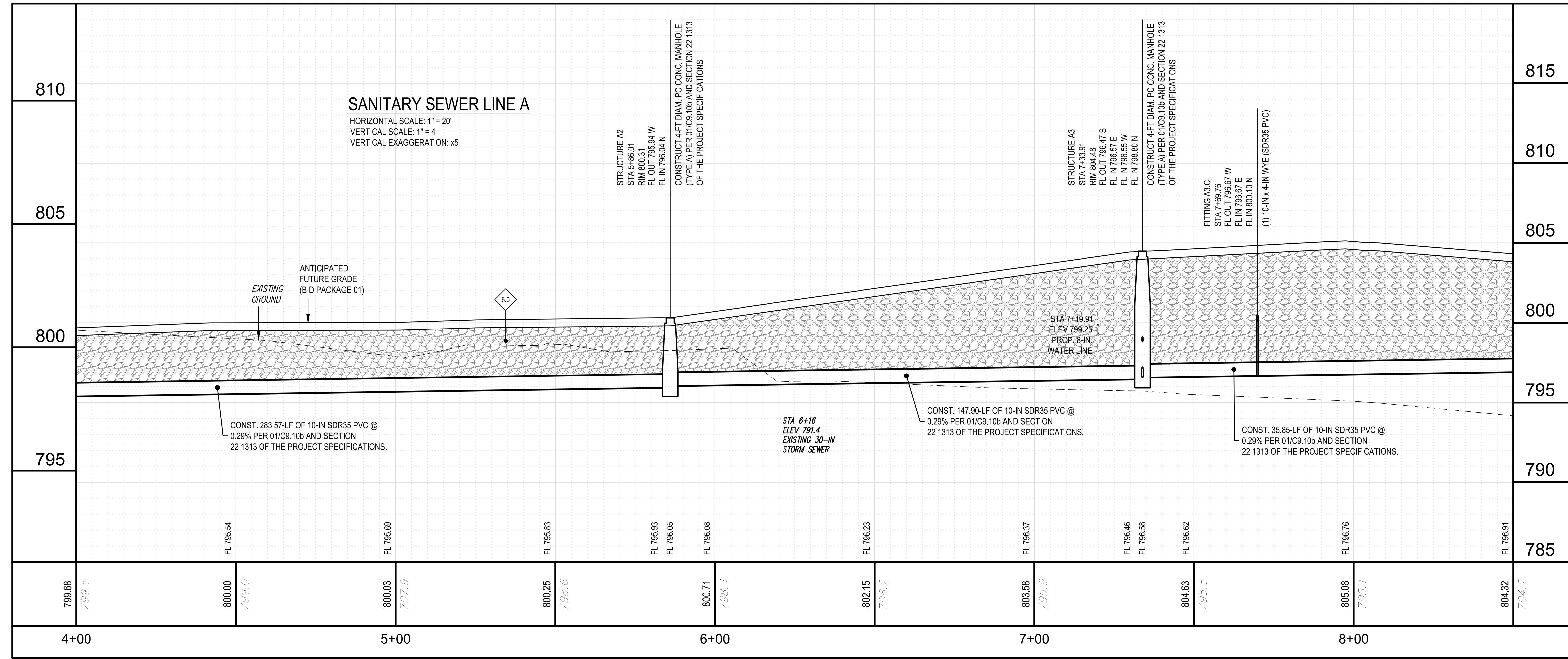


**CIVIL LEGEND**

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PROFESSIONAL SEAL  
  
 3/27/2018  
 DATE

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 920 West Main  
 Oklahoma City, OK 73106  
 P 405.232.5700  
 W www.adgokc.com  
 CA 6447, exp. 06.30.2018

CLIENT:  
  
**Cherokee**  
 CASINO

PROJECT PHASE:  
**BID PACKAGE 02**  
 (100% SET)

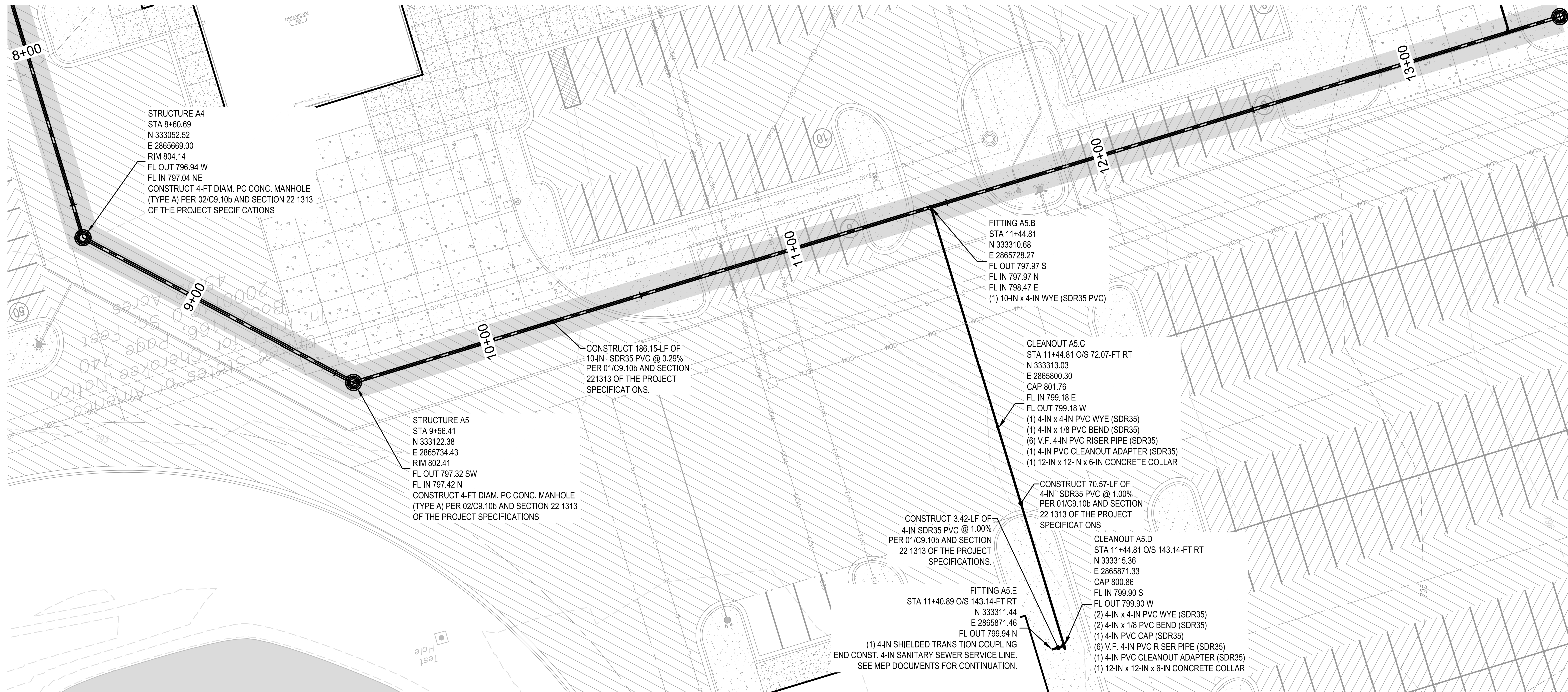
REVISIONS  

| # | DATE | DESCRIPTION |
|---|------|-------------|
|   |      |             |

DATE: 03/27/18  
 JOB NUMBER: 17-06

SHEET NUMBER:  
**C6.10b**  
 SANITARY SEWER PLAN AND PROFILE - LINE A (CONT)

CHEROKEE NATION ENTERTAINMENT  
**TAHLEQUAH CASINO**  
 TAHLEQUAH, OKLAHOMA

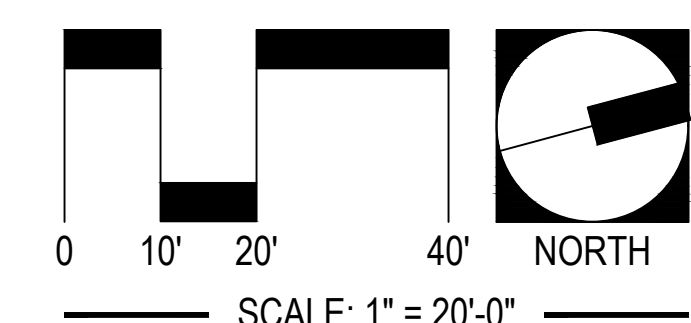
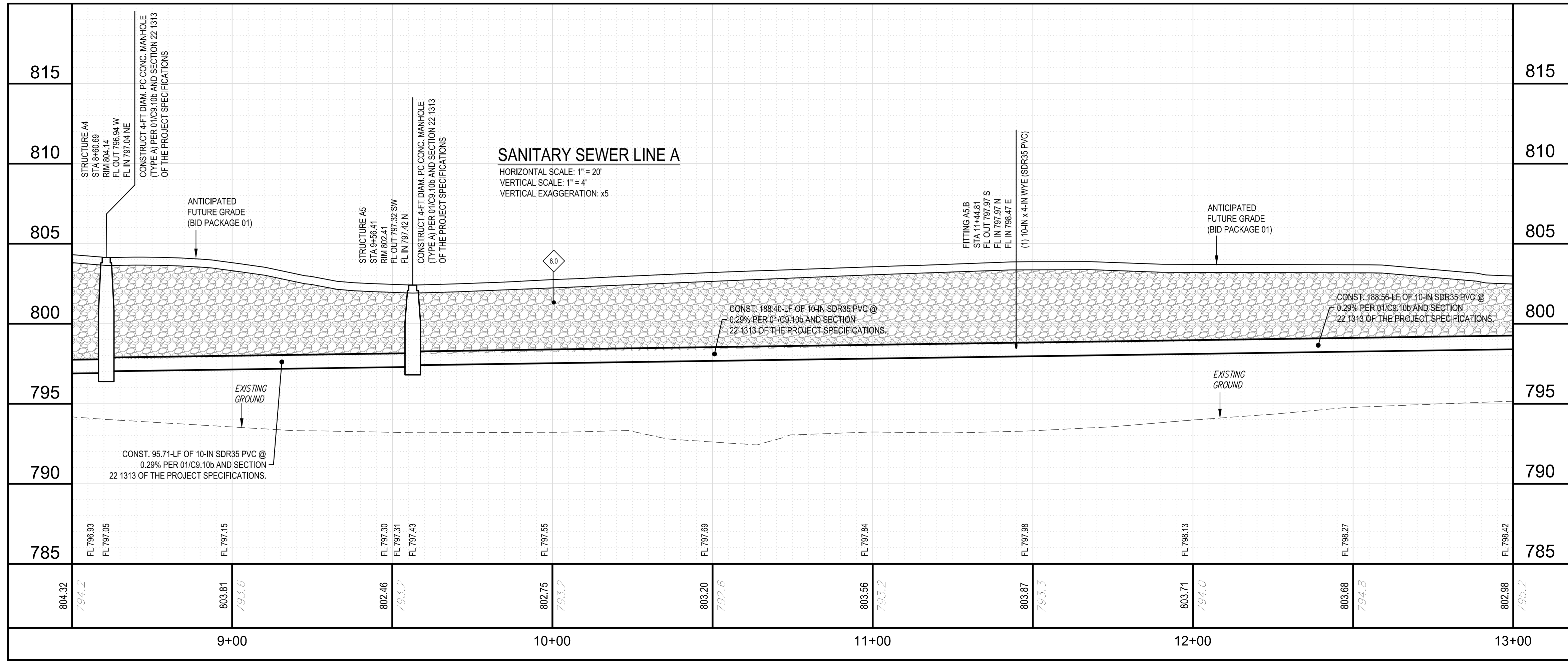


### CIVIL LEGEND

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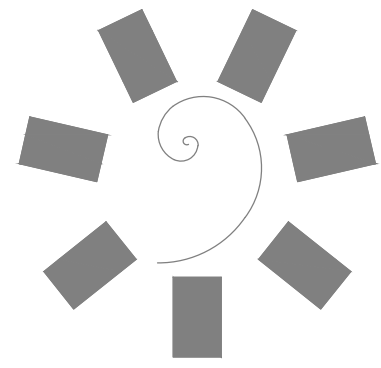
### SANITARY SEWER KEYNOTE TABLE

| ID  | DESCRIPTION  |
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| 6.0 | CLASS I OR II MATERIAL MEETING THE REQUIREMENTS FOR TYPE A AGGREGATE BASE PER THE REQUIREMENTS OF THE GEOTECHNICAL ENGINEER AND 01 - 02/C9.05a. PLACEMENT AND COMPACTION SHALL MEET THE REQUIREMENTS OF THE PIPE MANUFACTURER AND THE GEOTECHNICAL REPORT. AGGREGATE BACKFILL SHALL EXTEND TO BOTTOM OF FUTURE PAVING. |



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**James R. Childers**  
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www.childersarchitect.com



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W www.adgokc.com  
CA 6447, exp. 06.30.2018



CHEROKEE NATION ENTERTAINMENT  
**TAHLEQUAH CASINO**  
TAHLEQUAH, OKLAHOMA

PROJECT PHASE:  
BID PACKAGE 02  
(100% SET)

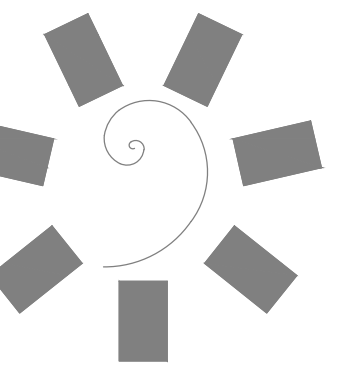
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DATE: 03/27/18  
JOB NUMBER: 17-06

SHEET NUMBER:  
**C6.15b**  
SANITARY SEWER  
PLAN AND PROFILE -  
LINE A (CONT)

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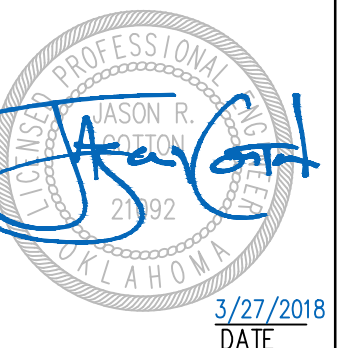




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PROFESSIONAL SEAL



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CA 6447, exp. 06.30.2018

CLIENT:



CHEROKEE NATION ENTERTAINMENT  
TAHLEQUAH CASINO  
TAHLEQUAH, OKLAHOMA

PROJECT PHASE:  
BID PACKAGE 02  
(100% SET)

| REVISIONS |      |             |
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| #         | DATE | DESCRIPTION |
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DATE: 03/27/18 JOB NUMBER: 17-06

SHEET NUMBER:

C6.20b

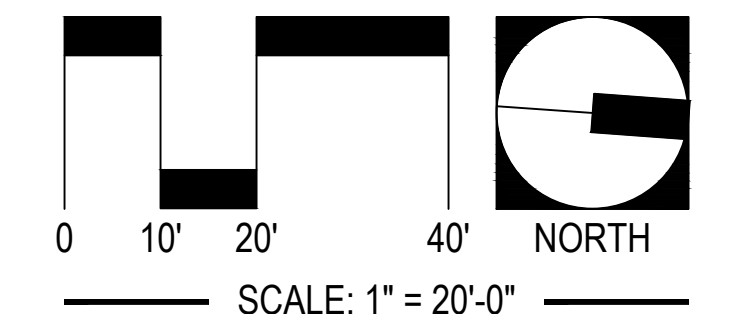
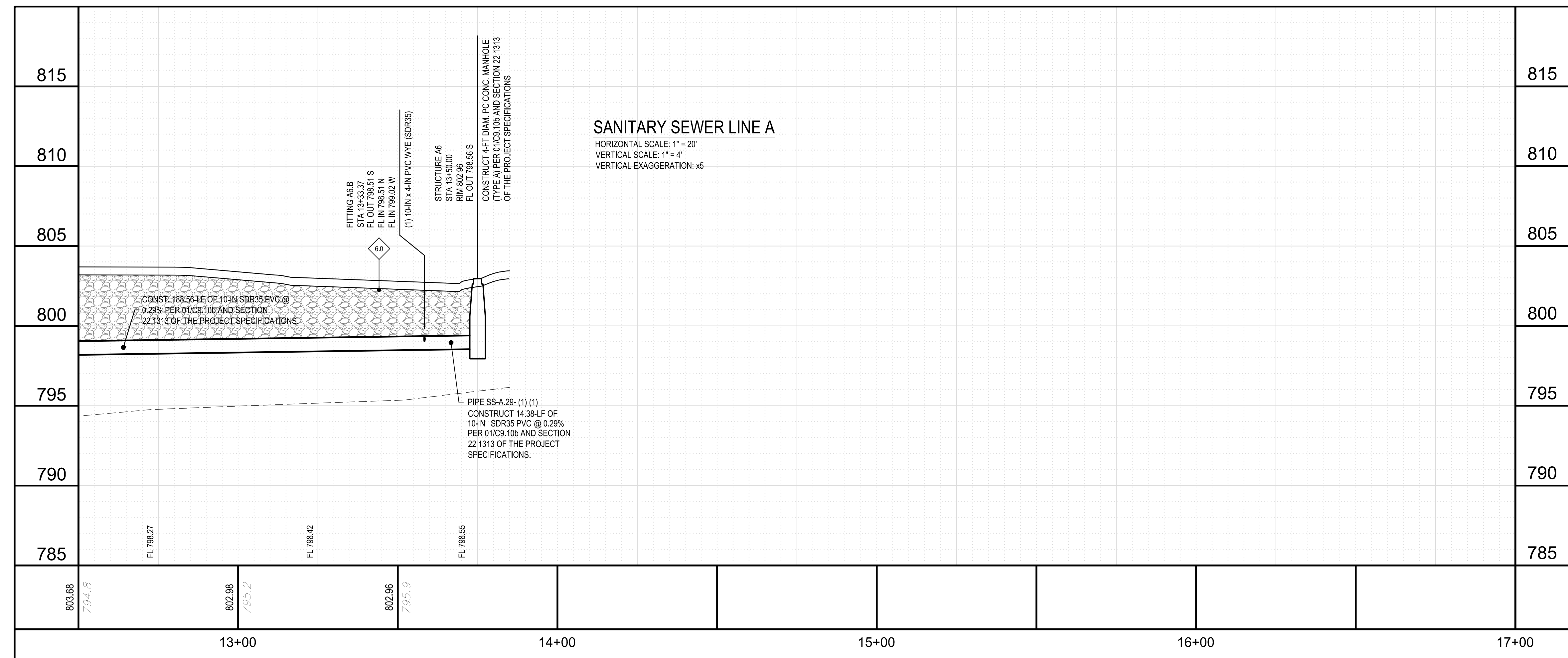
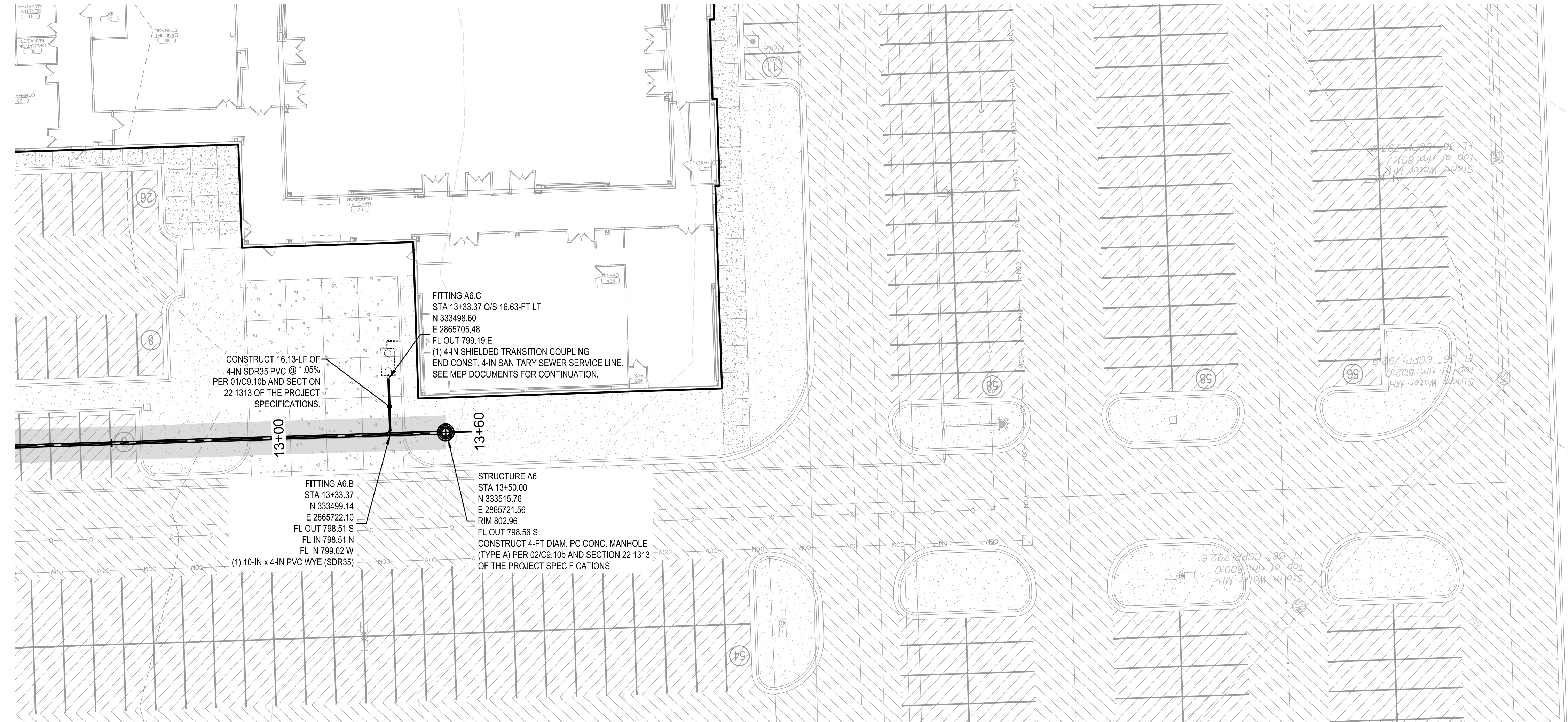
SANITARY SEWER  
PLAN AND PROFILE -  
LINE A (CONT)

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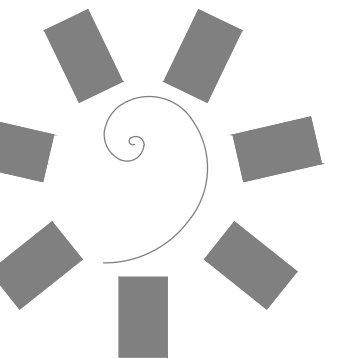
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Drawing name: P:\161010 ONE Tahlequah\Civil\Production Drawings\161010\_BID2\_LITS.dwg - 02.10b SANITARY SEWER PLAN AND PROFILE - LINE A (CONT) Plotted by: AUTOCAD/ARX - Copyright ADG, Inc. 2018 Mar 27, 2018 5:45pm



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CHEROKEE NATION ENTERTAINMENT  
TAHLEQUAH CASINO  
TAHLEQUAH, OKLAHOMA

PROJECT PHASE:  
BID PACKAGE 02  
(100% SET)

| REVISIONS |             |
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| #         | DESCRIPTION |
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DATE: 03/27/18 JOB NUMBER: 17-06

SHEET NUMBER:

C6.25b

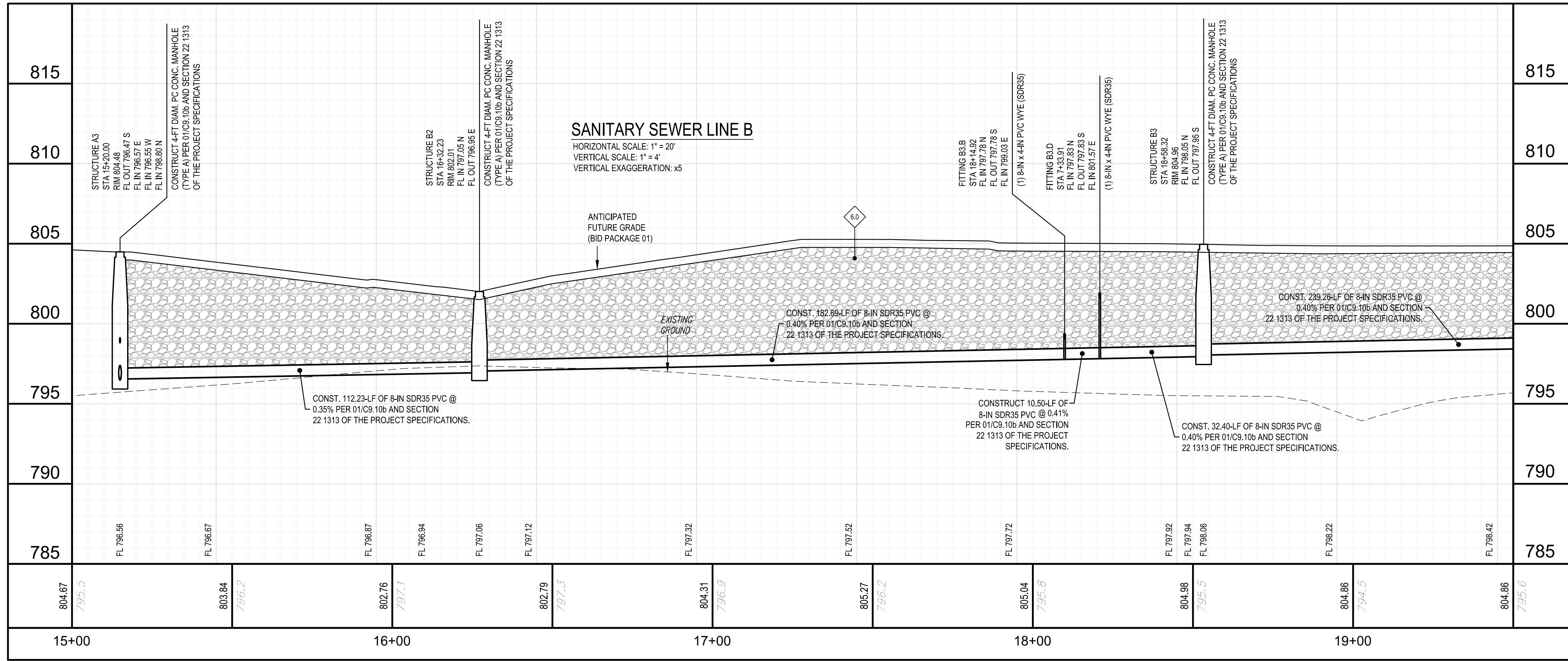
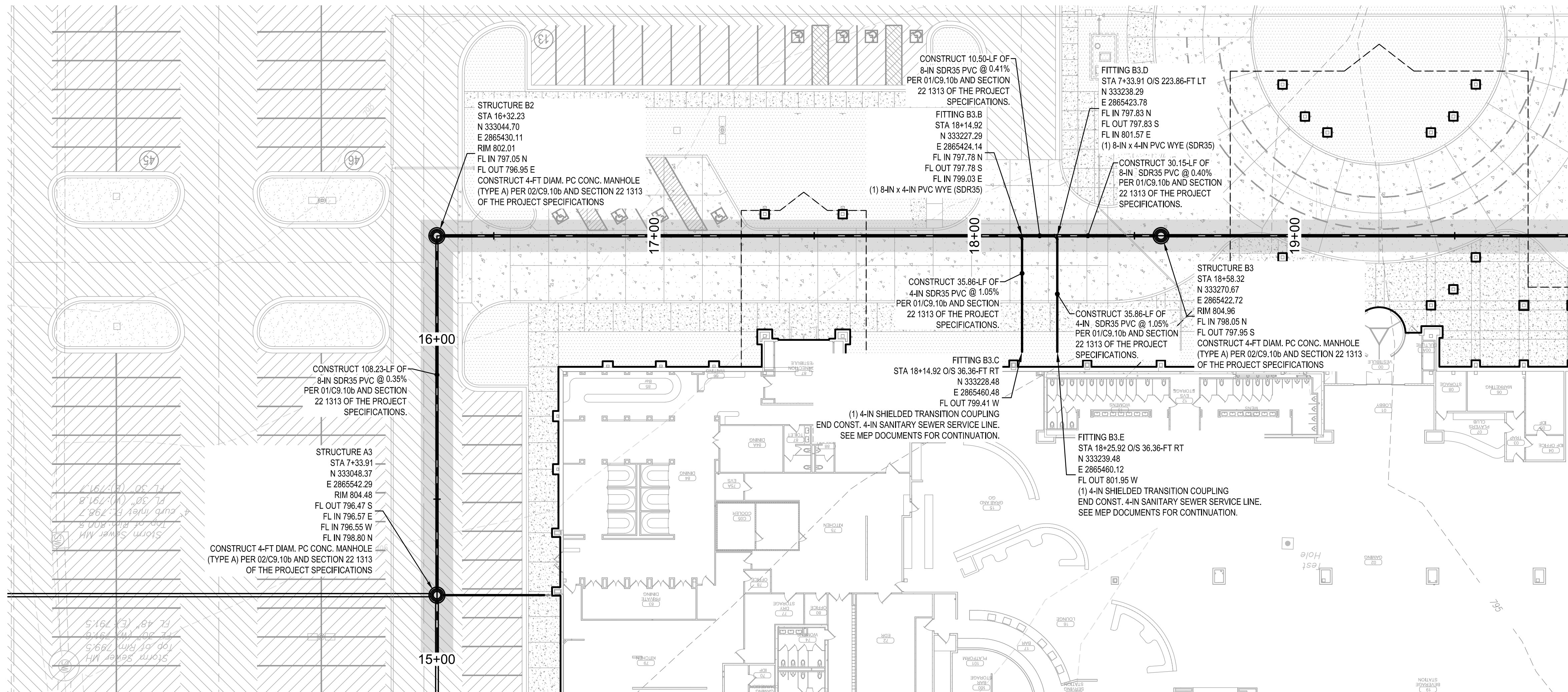
SANITARY SEWER  
PLAN AND PROFILE -  
LINE B

CIVIL LEGEND

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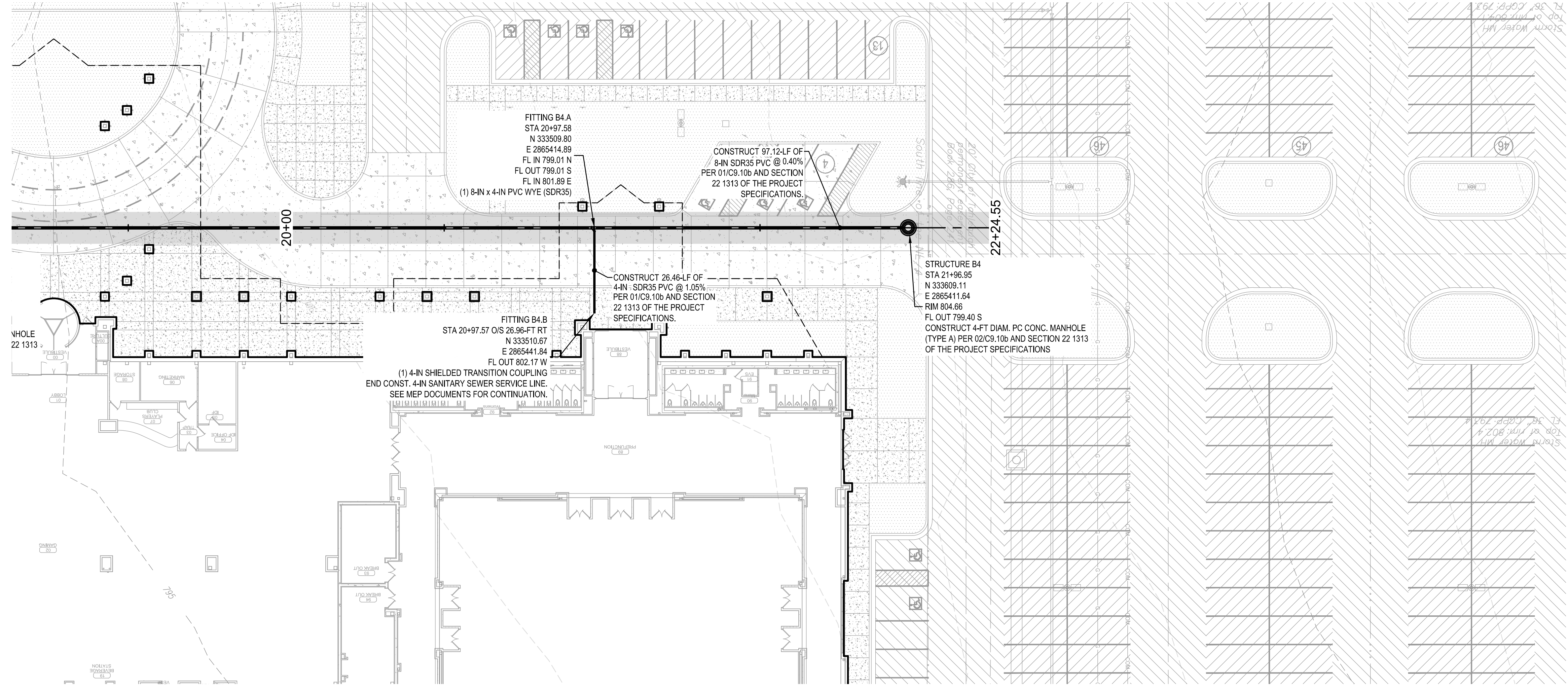


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Drawing name: P:\1610\ONE Tahlequah\Civil\Production Drawings\61010\_BID2\_LITS.dwg - 03.10b SANITARY SEWER PLAN AND PROFILE - LINE B (CONT)   
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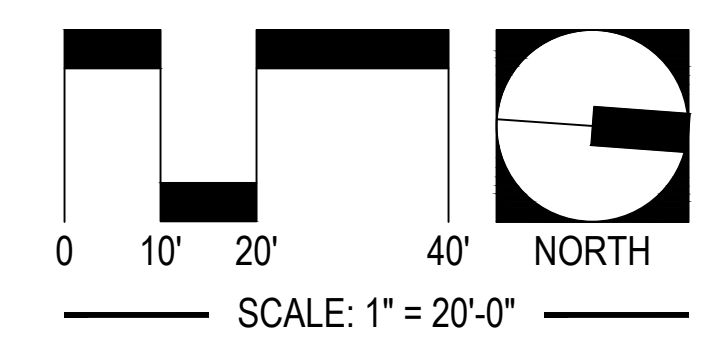
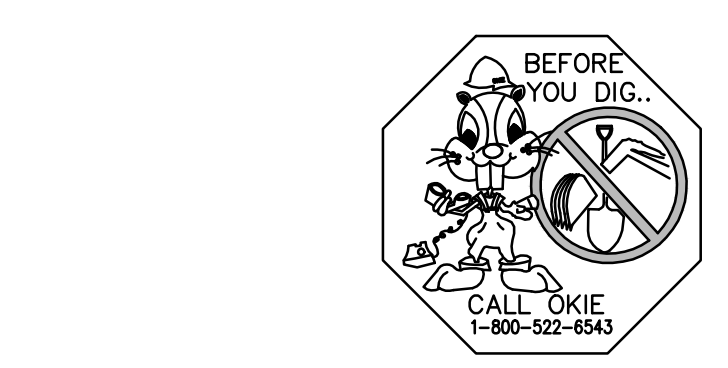
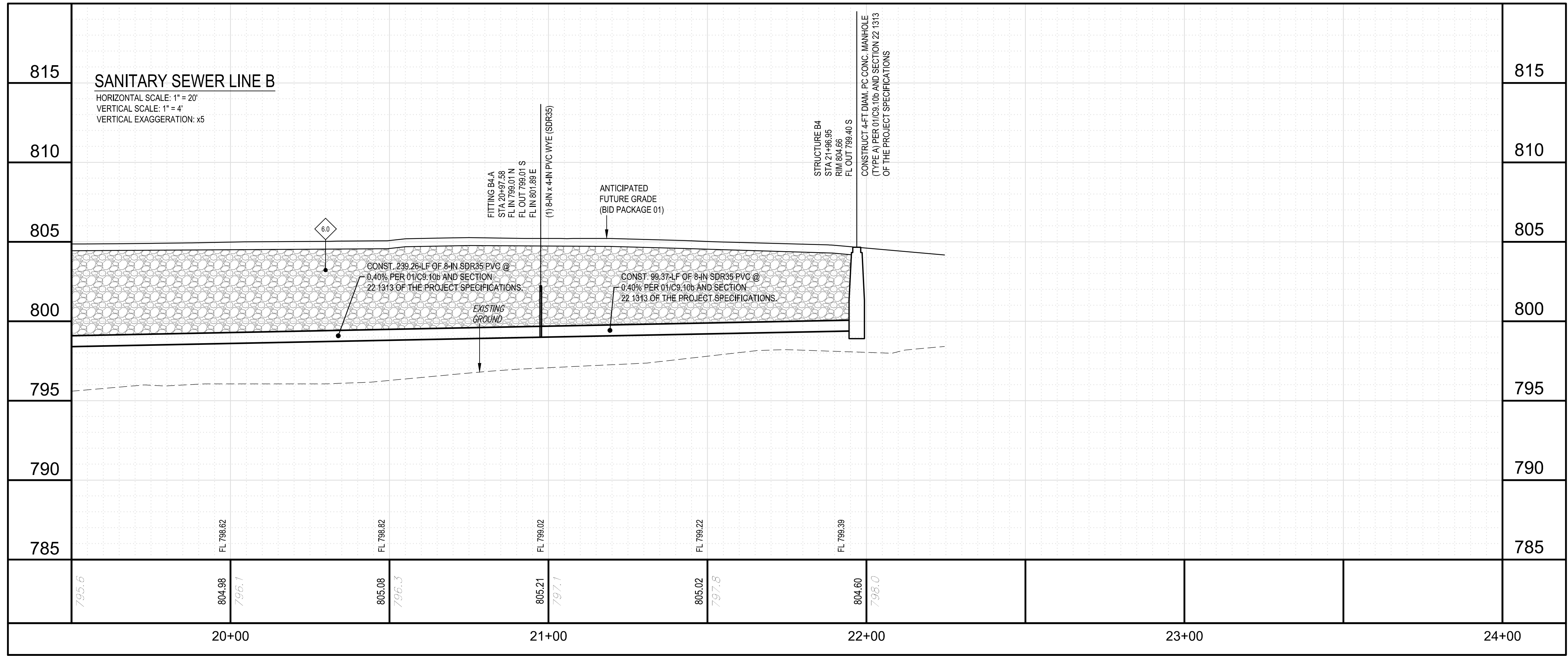


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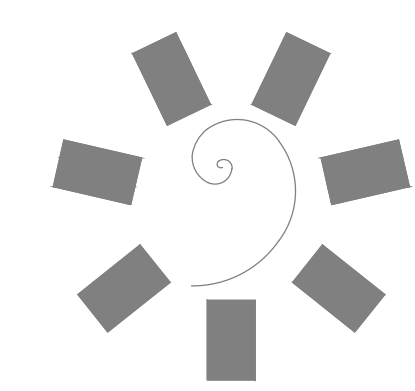
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| ID | DESCRIPTION  |
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| 60 | CLASS I OR II MATERIAL MEETING THE REQUIREMENTS FOR TYPE A AGGREGATE BASE PER THE REQUIREMENTS OF THE GEOTECHNICAL ENGINEER AND 01 - 02/C9.05a. PLACEMENT AND COMPACTION SHALL MEET THE REQUIREMENTS OF THE PIPE MANUFACTURER AND THE GEOTECHNICAL REPORT. AGGREGATE BACKFILL SHALL EXTEND TO BOTTOM OF FUTURE PAVING. |

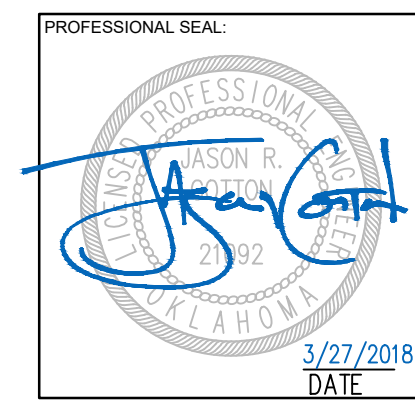


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CHEROKEE NATION ENTERTAINMENT  
 TAHLEQUAH CASINO  
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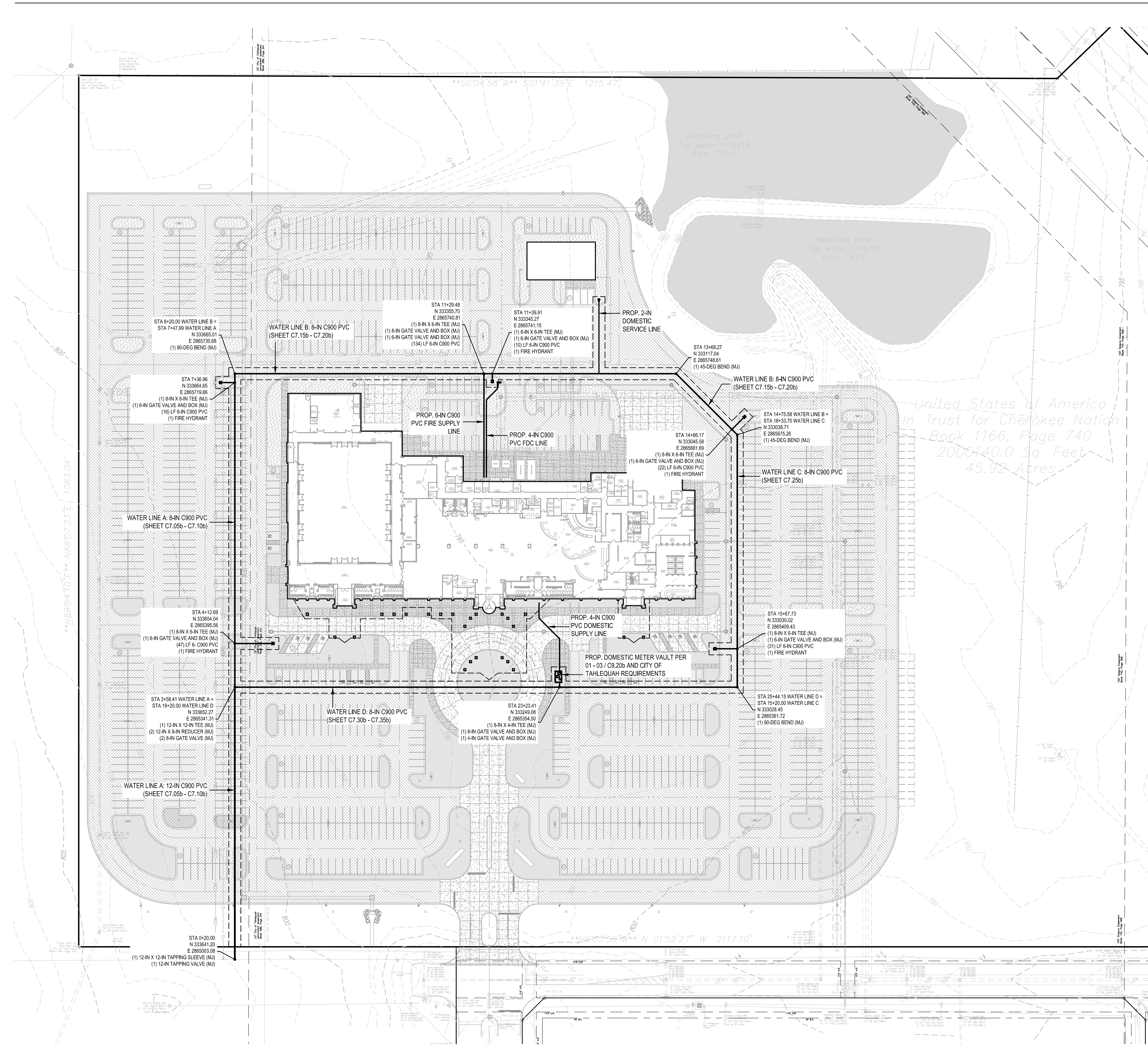
PROJECT PHASE:  
**BID PACKAGE 02  
(100% SET)**

| REVISIONS |      |             |
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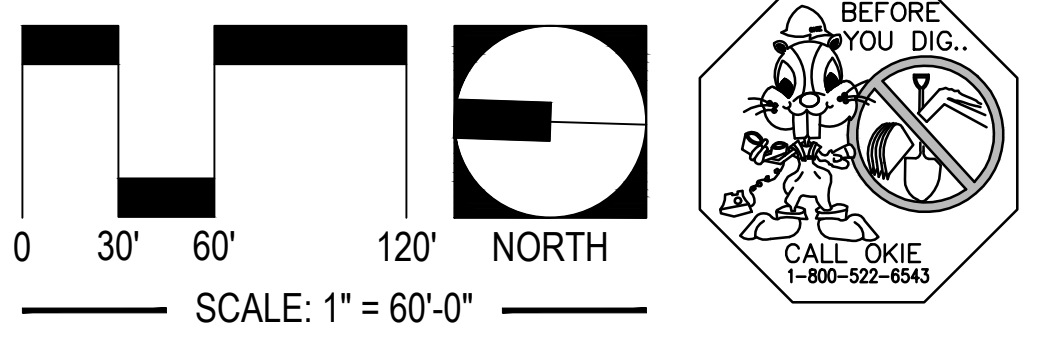
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 JOB NUMBER: 17-06

SHEET NUMBER:  
**C6.30b**  
 SANITARY SEWER PLAN AND PROFILE - LINE B (CONT)

Drawing name: P:\16101 ONE Tahlequah\Civil\Production Drawings\16101\_B02\_Utility\_Index.dwg - C:\D2\B\WATER INDEX - Printed by: HBERRY Mar 27, 2018 - 1:44pm - Copyright ADG, Inc. 2018



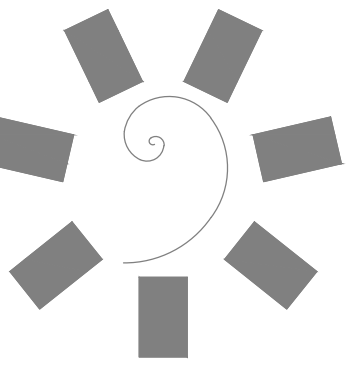
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**01 PLAN VIEW: INSET**  
 SCALE: AS SHOWN



**James R. Childers  
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 479-783-2480  
 www.childersarchitect.com



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 920 West Main  
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 W www.adgokc.com  
 CA 6447, exp. 06.30.2018



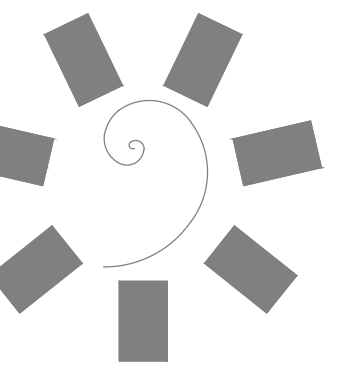
**CHEROKEE NATION ENTERTAINMENT**  
**TAHLEQUAH CASINO**  
 TAHLEQUAH, OKLAHOMA

PROJECT PHASE:  
**BID PACKAGE 02**  
 (100% SET)

| REVISIONS |      |             |
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| #         | DATE | DESCRIPTION |
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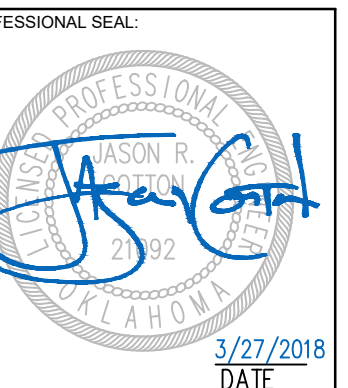
DATE: 03/27/18 JOB NUMBER: 17-06

SHEET NUMBER:  
**C7.02b**  
 WATER INDEX



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CLIENT:  
CHEROKEE NATION  
Entertainment



CHEROKEE NATION ENTERTAINMENT  
TAHLEQUAH CASINO  
TAHLEQUAH, OKLAHOMA

PROJECT PHASE:  
BID PACKAGE 02  
(100% SET)

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| #         | DATE | DESCRIPTION |
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DATE: 03/27/18 JOB NUMBER: 17-06

SHEET NUMBER:

C7.05b

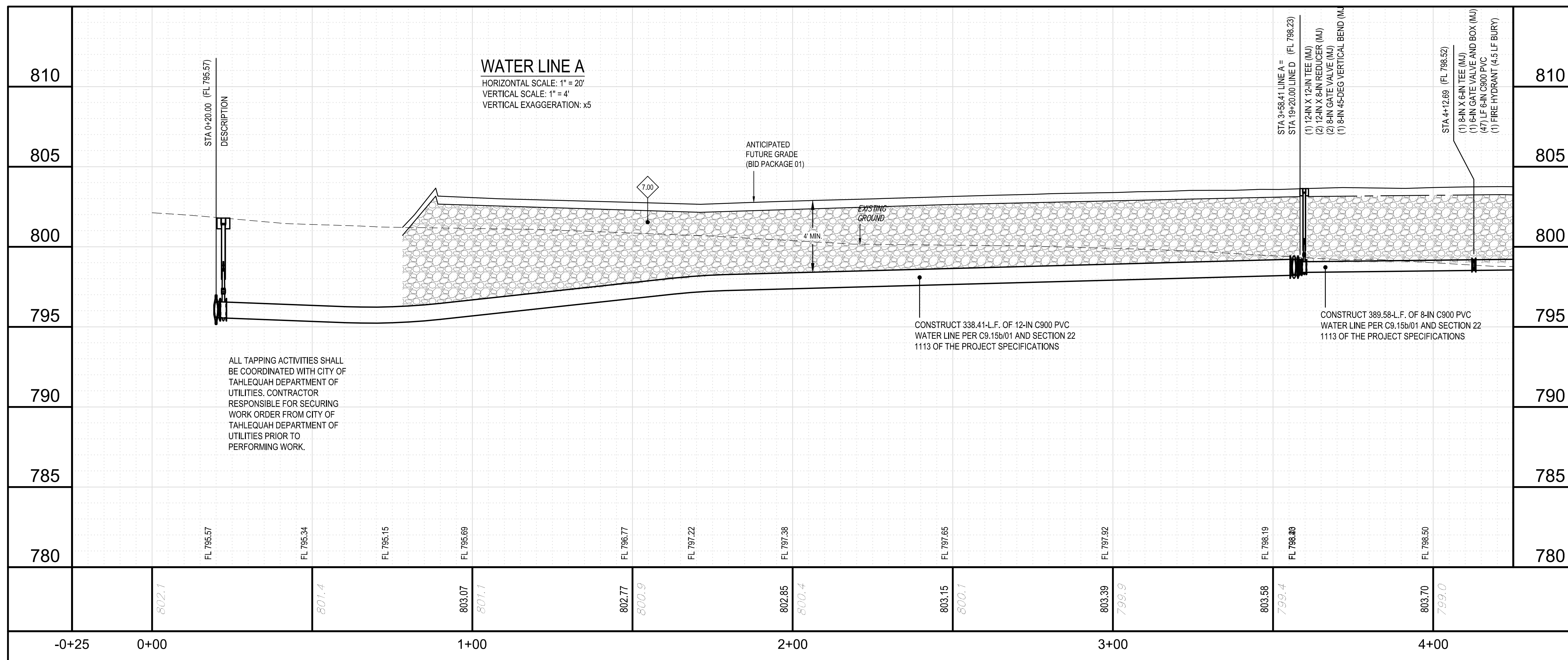
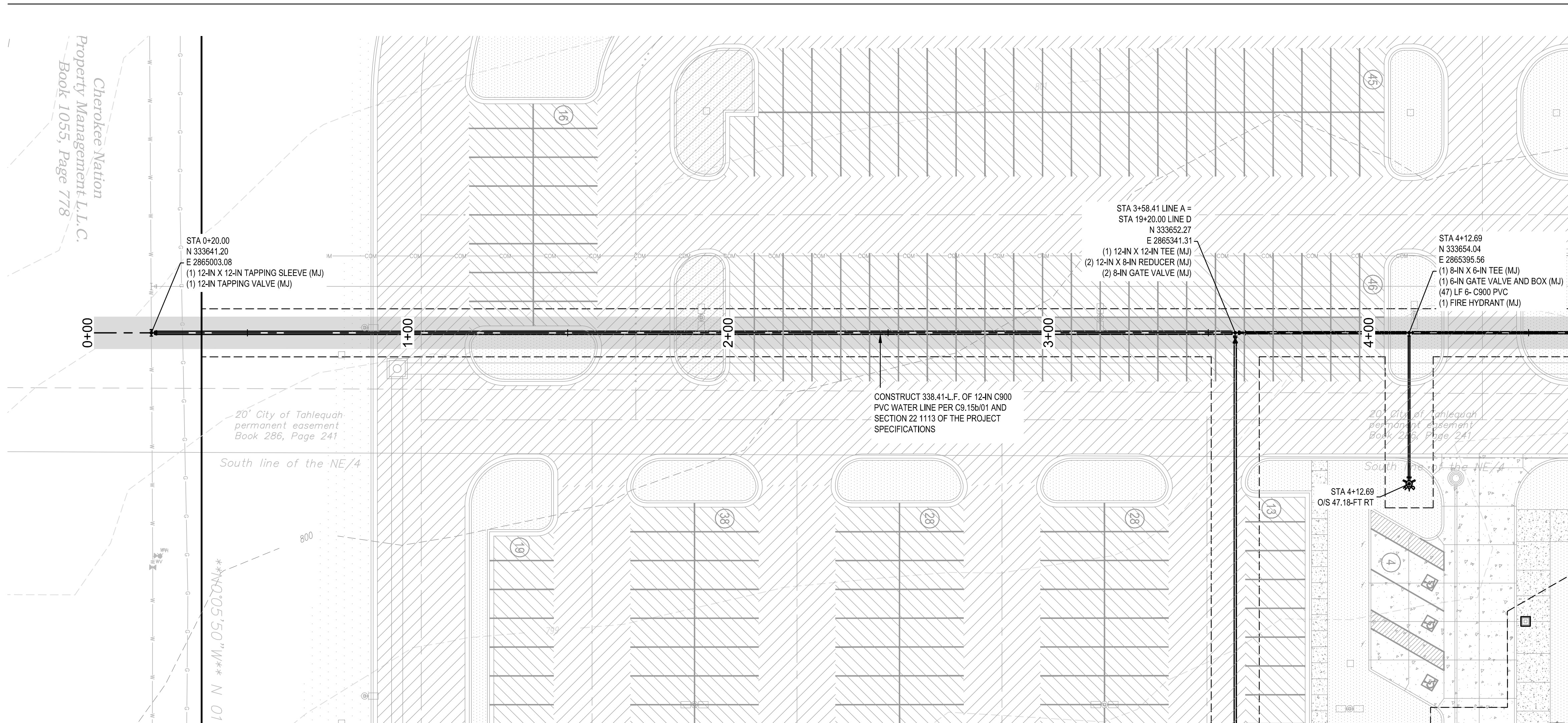
WATER LINE PLAN  
AND PROFILE -  
LINE A

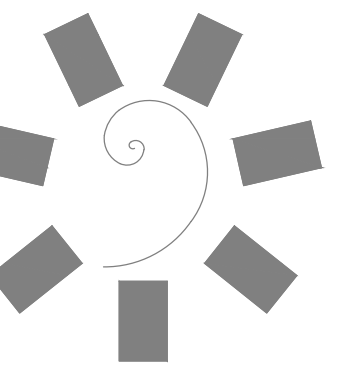
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PROFESSIONAL SEAL



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CLIENT:



CHEROKEE NATION ENTERTAINMENT  
TAHLEQUAH CASINO  
TAHLEQUAH, OKLAHOMA

PROJECT PHASE:  
BID PACKAGE 02  
(100% SET)

| REVISIONS |      |             |
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DATE: 03/27/18 JOB NUMBER: 17-06

SHEET NUMBER:

C7.10b

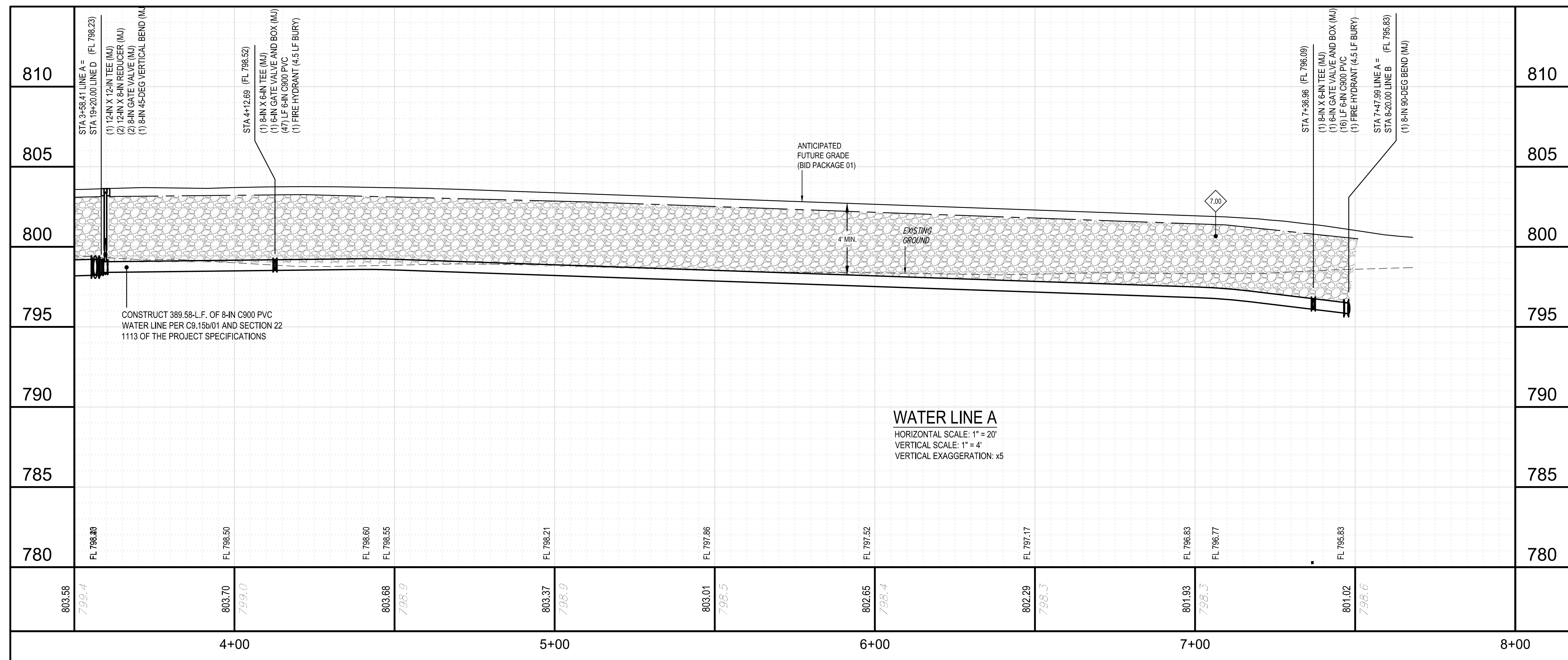
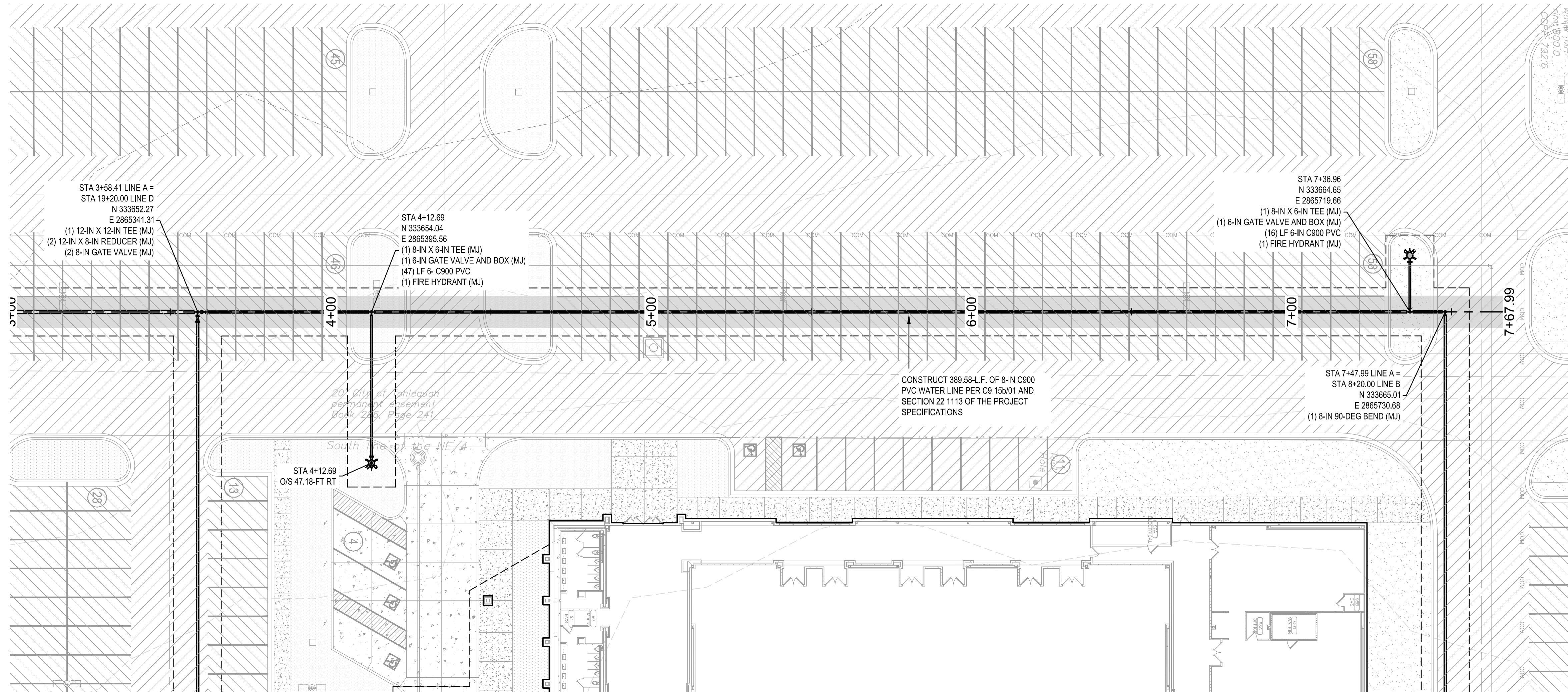
WATER LINE PLAN  
AND PROFILE -  
LINE A (CONT)

### CIVIL LEGEND

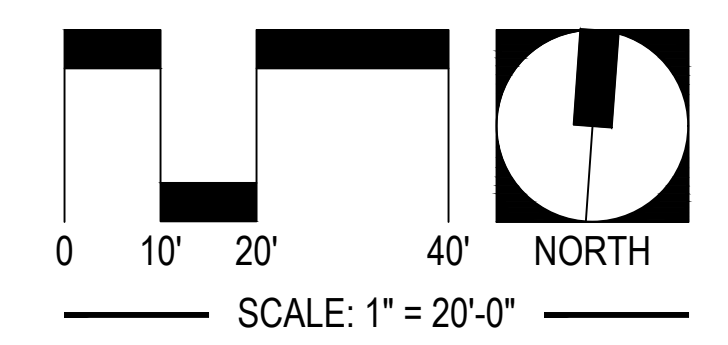
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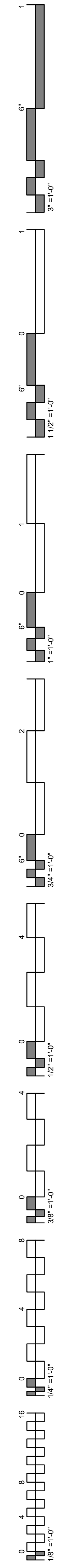


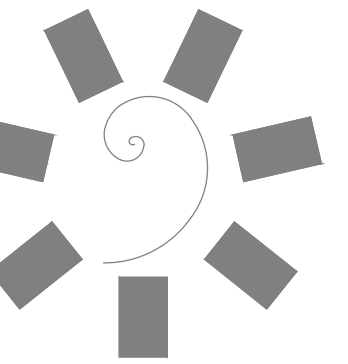
**WATER LINE A**  
HORIZONTAL SCALE: 1" = 20'  
VERTICAL SCALE: 1" = 4'  
VERTICAL EXAGGERATION: x5



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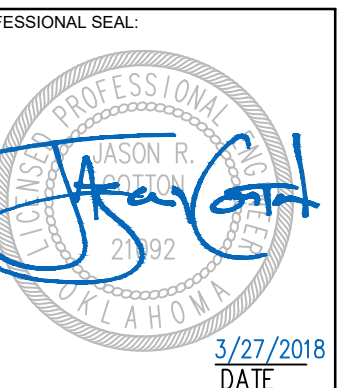
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CLIENT:



CHEROKEE NATION ENTERTAINMENT  
TAHLEQUAH CASINO  
TAHLEQUAH, OKLAHOMA

PROJECT PHASE:  
BID PACKAGE 02  
(100% SET)

| REVISIONS |      |             |
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| #         | DATE | DESCRIPTION |
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DATE: 03/27/18 JOB NUMBER: 17-06

SHEET NUMBER:

**C7.15b**

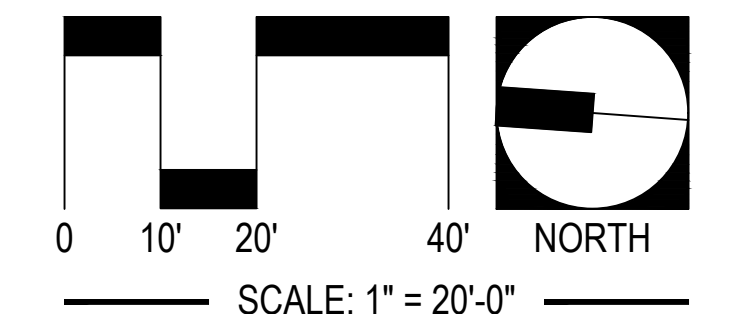
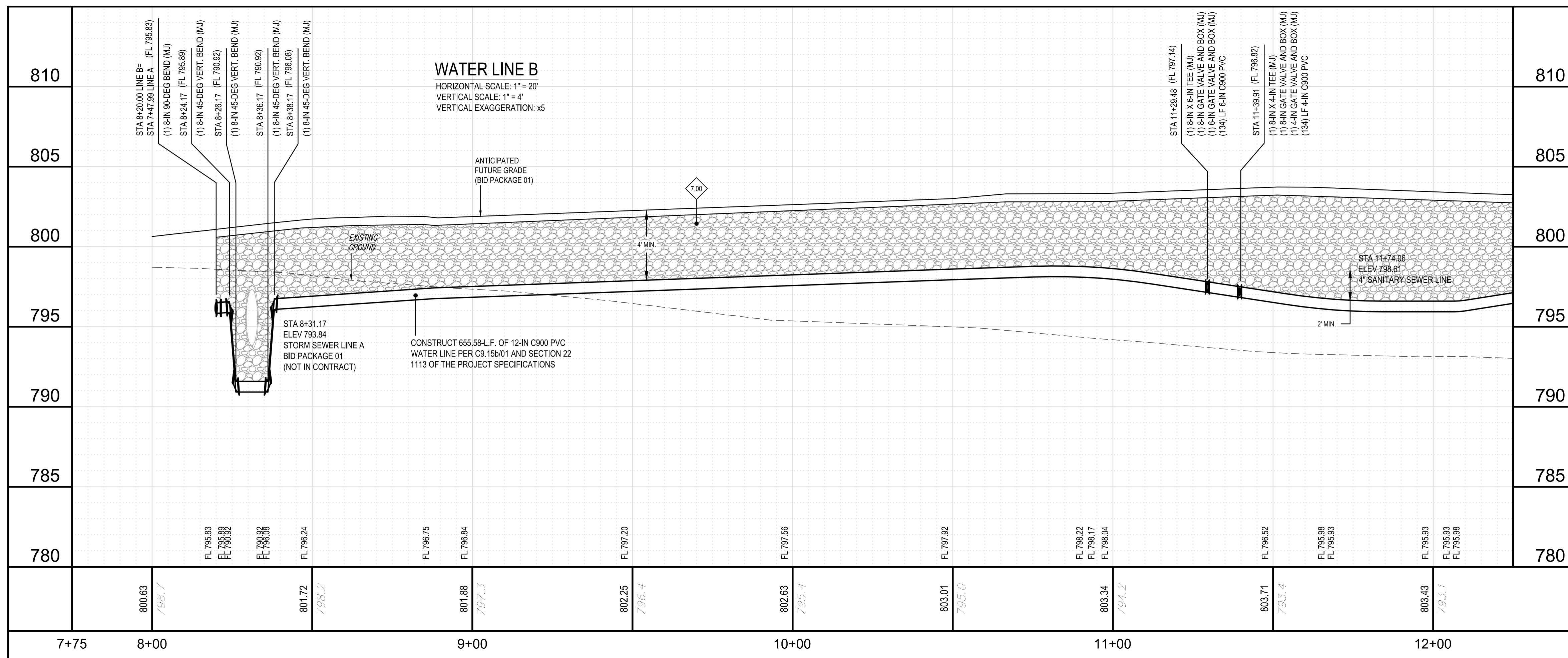
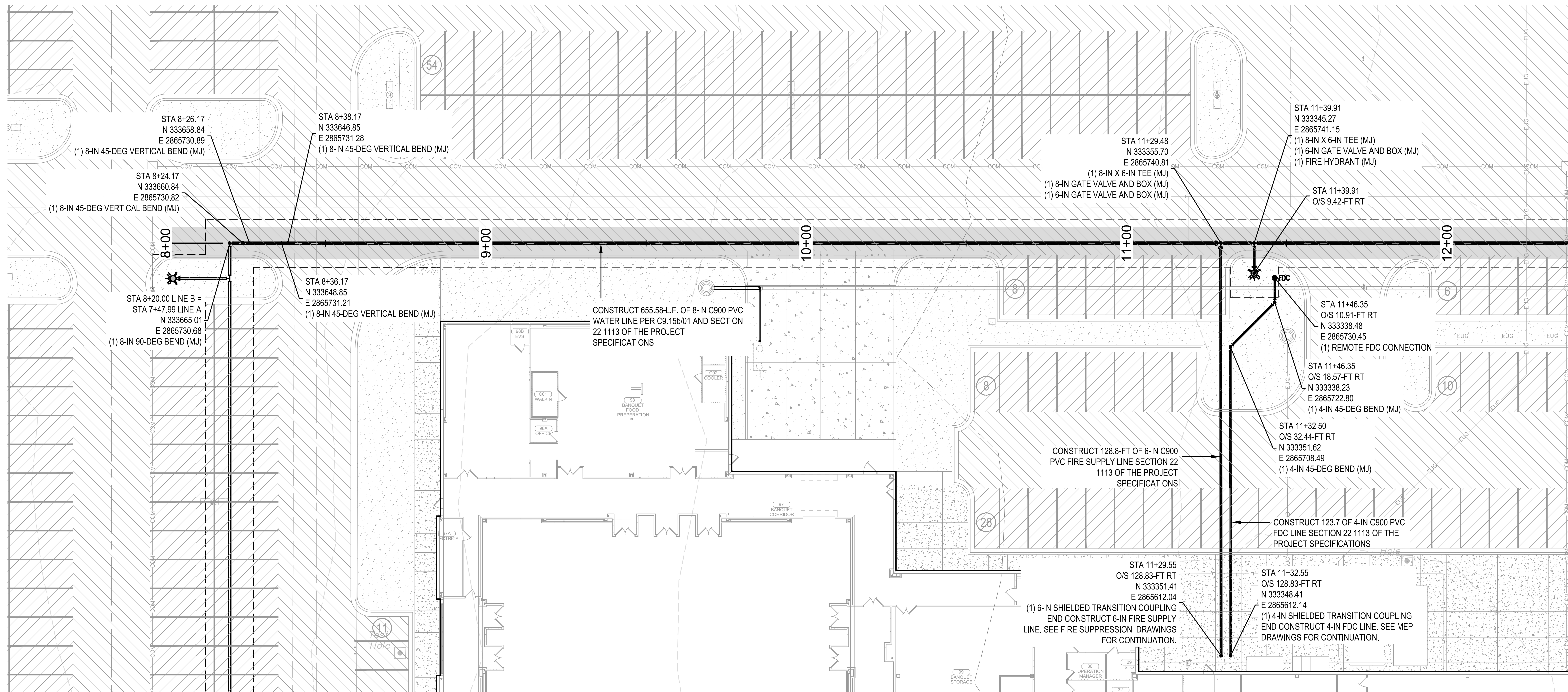
WATER LINE PLAN  
AND PROFILE -  
LINE B

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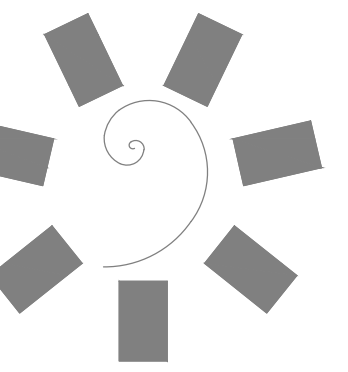
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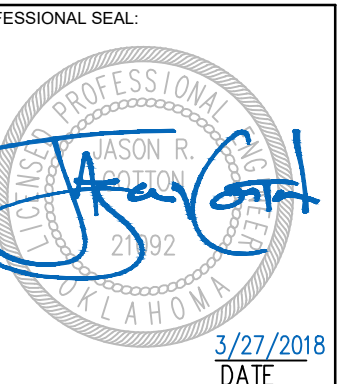
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CHEROKEE NATION ENTERTAINMENT  
TAHLEQUAH CASINO  
TAHLEQUAH, OKLAHOMA

PROJECT PHASE:  
BID PACKAGE 02  
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| REVISIONS |      |             |
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| #         | DATE | DESCRIPTION |
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DATE: 03/27/18 JOB NUMBER: 17-06

SHEET NUMBER:

C7.20b

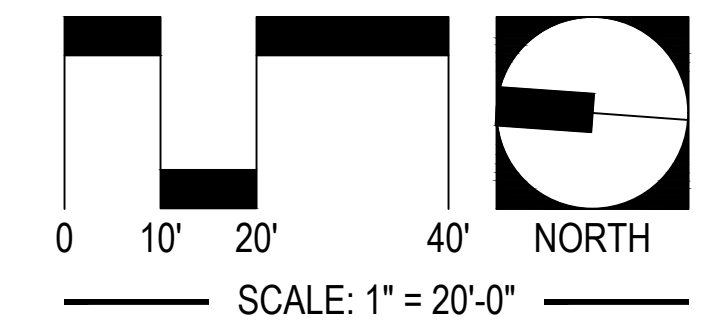
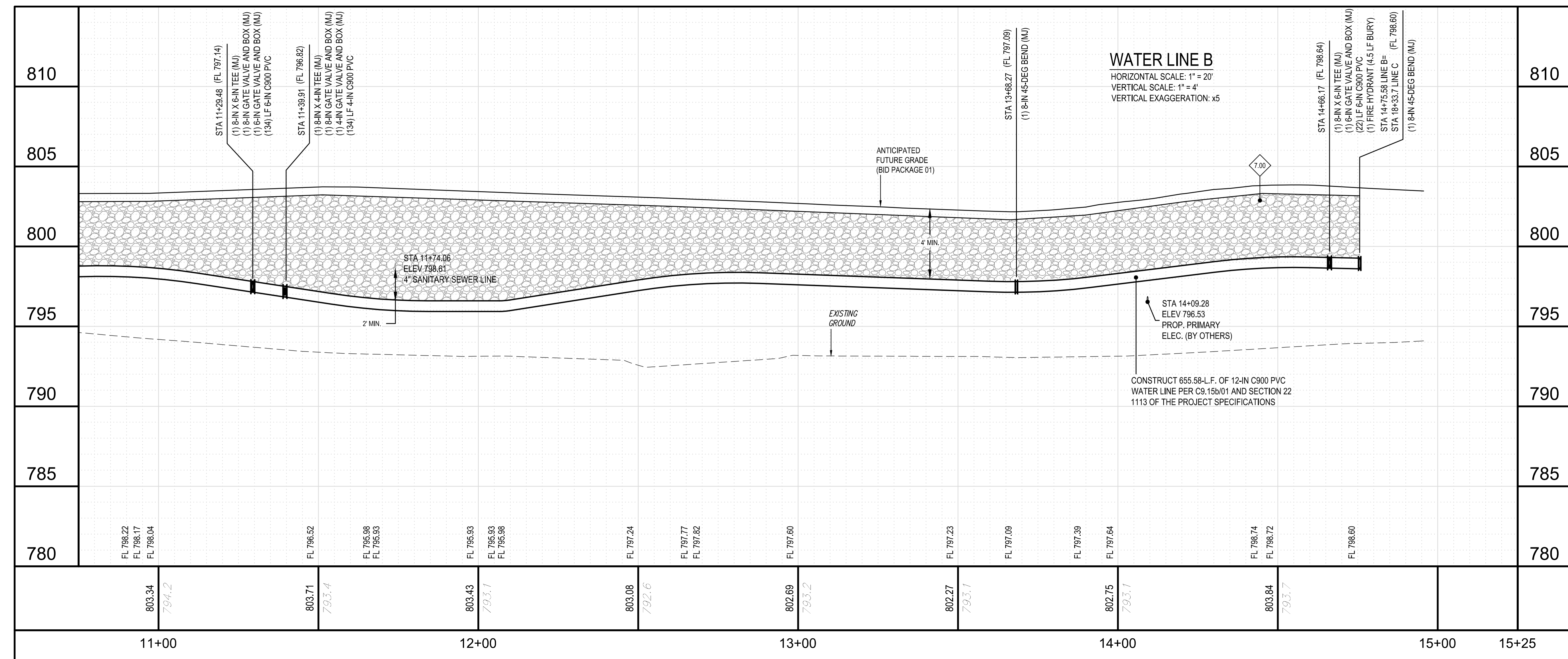
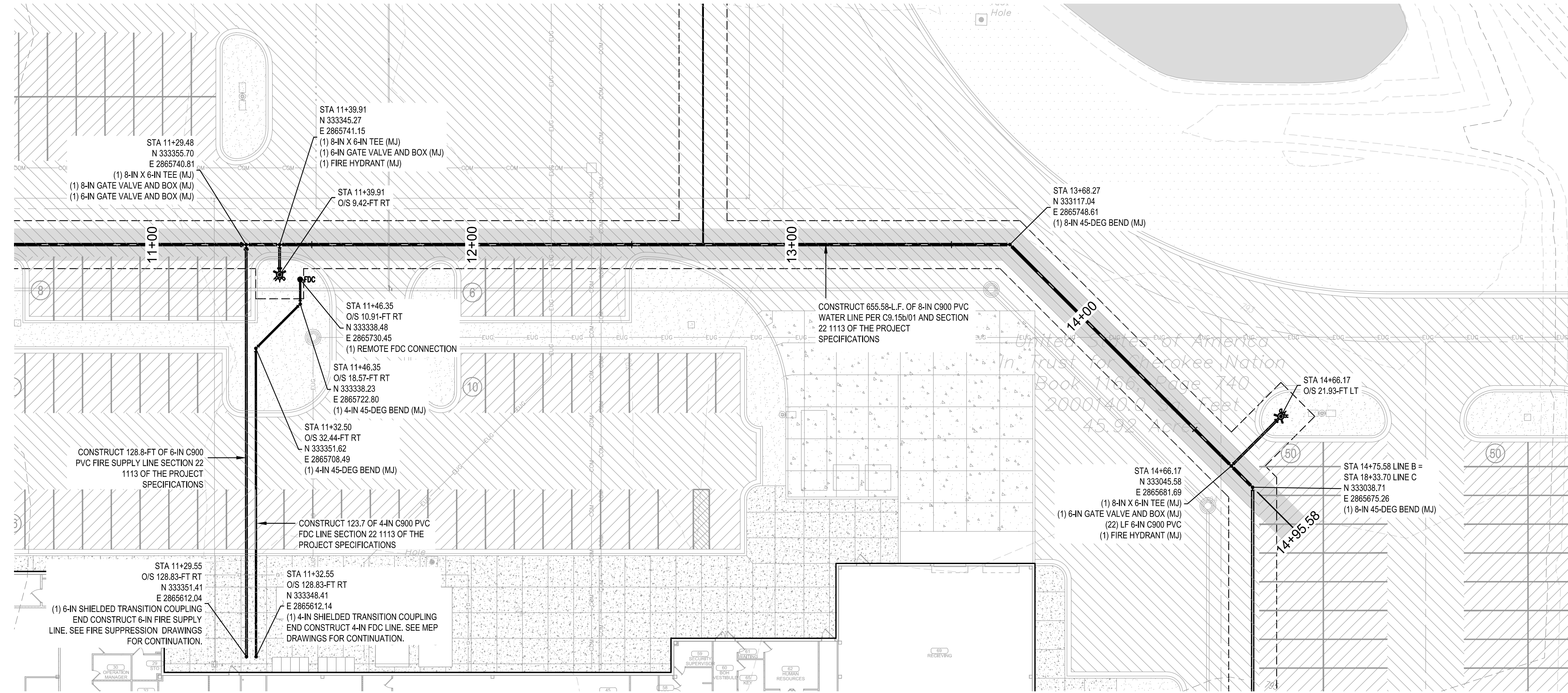
WATER LINE PLAN  
AND PROFILE -  
LINE B (CONT)

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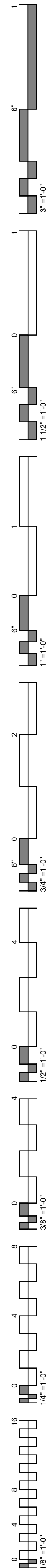
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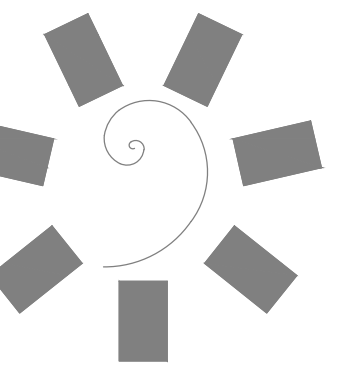


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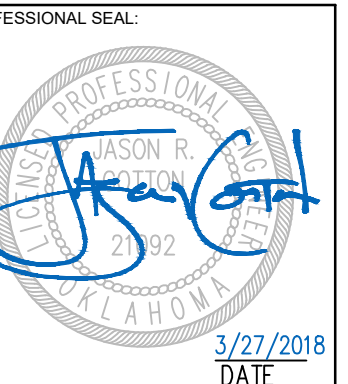






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TAHLEQUAH CASINO  
TAHLEQUAH, OKLAHOMA

PROJECT PHASE:  
BID PACKAGE 02  
(100% SET)

| REVISIONS |      |             |
|-----------|------|-------------|
| #         | DATE | DESCRIPTION |
|           |      |             |
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DATE: 03/27/18  
JOB NUMBER: 17-06

SHEET NUMBER:

C7.25b

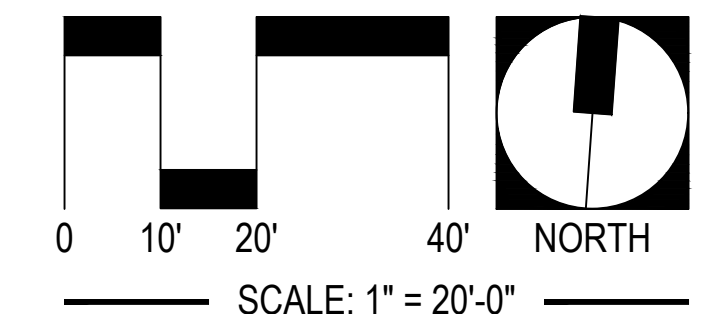
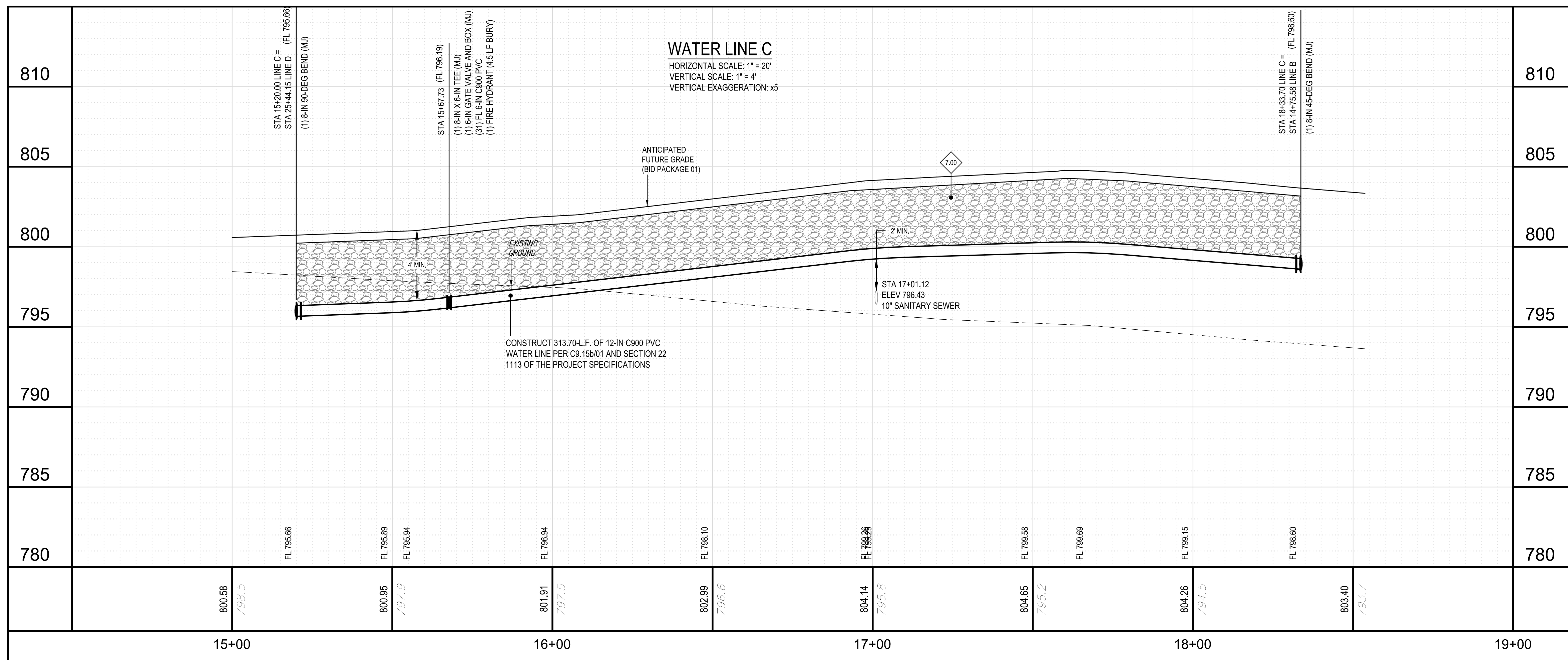
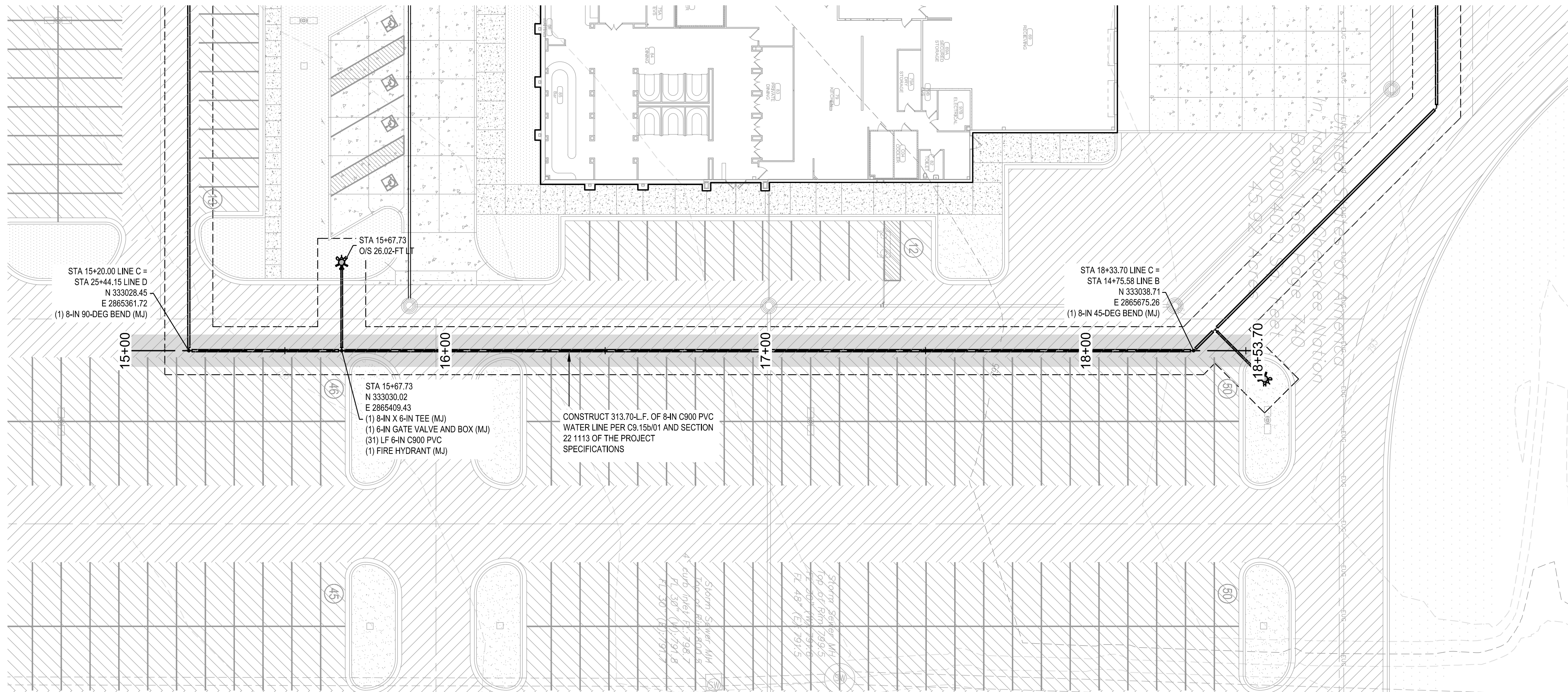
WATER LINE PLAN  
AND PROFILE -  
LINE C

### CIVIL LEGEND

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- PROPOSED LANDSCAPE BED. SEE LANDSCAPE DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL DETAIL AND INFORMATION.

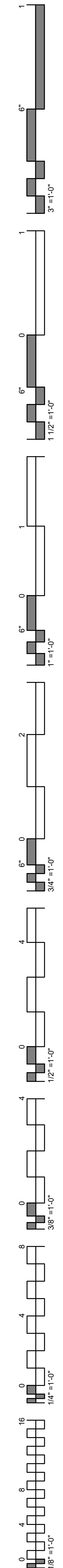
### WATER LINE KEYNOTE TABLE

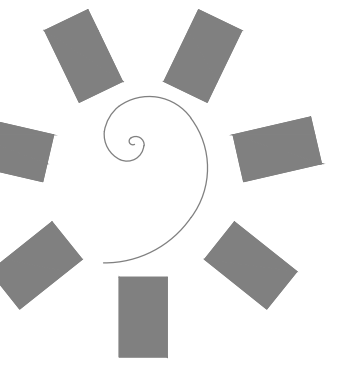
| ID   | DESCRIPTION  |
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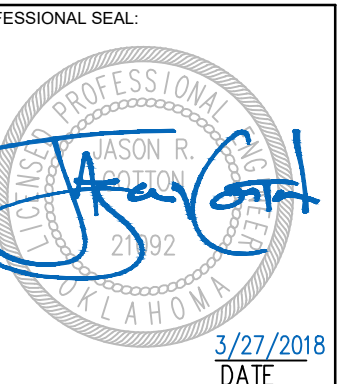
UTILITY WARNING:  
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CA 6477, exp. 06.30.2018

CLIENT:



CHEROKEE NATION ENTERTAINMENT  
**TAHLEQUAH CASINO**  
TAHLEQUAH, OKLAHOMA

PROJECT PHASE:  
**BID PACKAGE 02  
(100% SET)**

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DATE: 03/27/18 JOB NUMBER: 17-06

SHEET NUMBER:

**C7.30b**

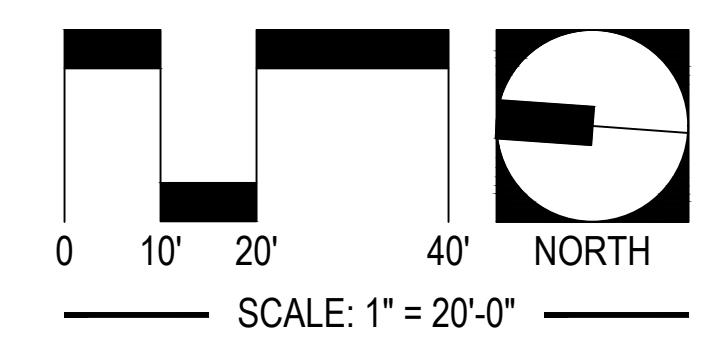
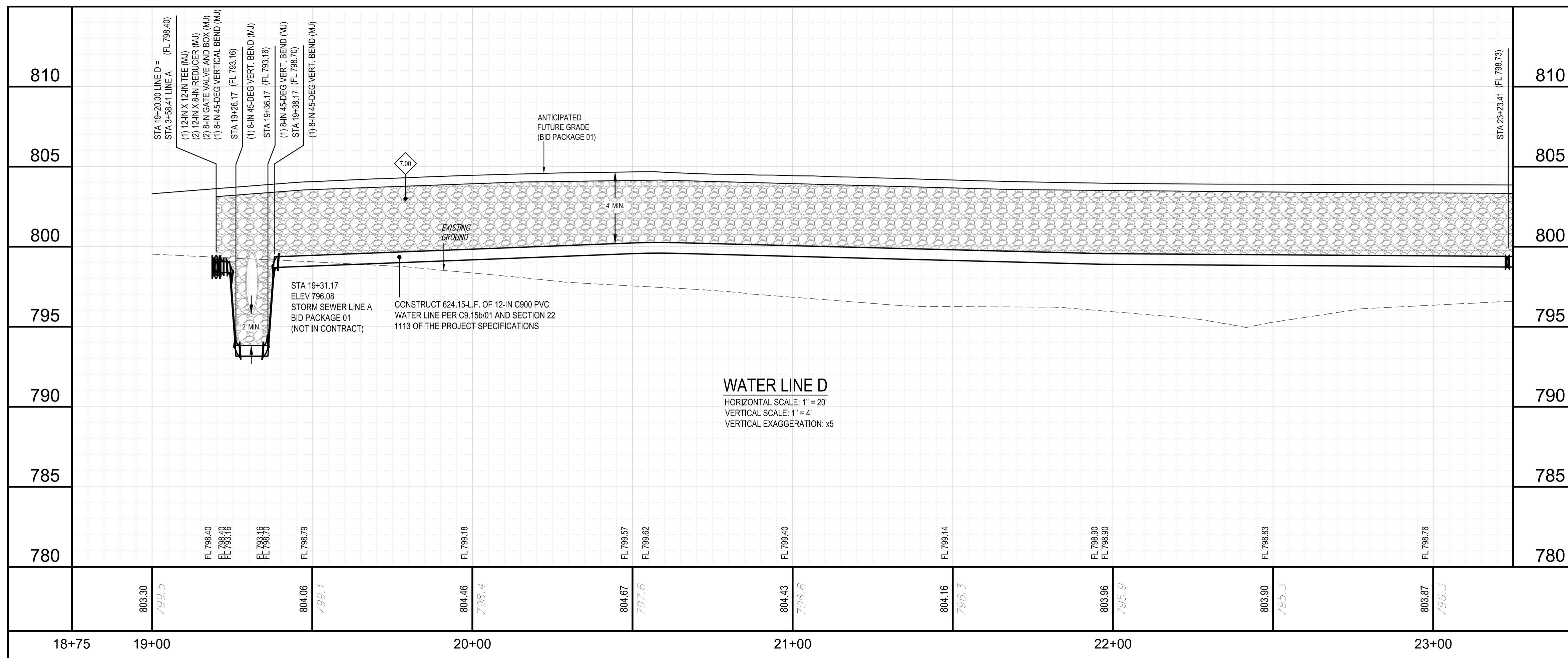
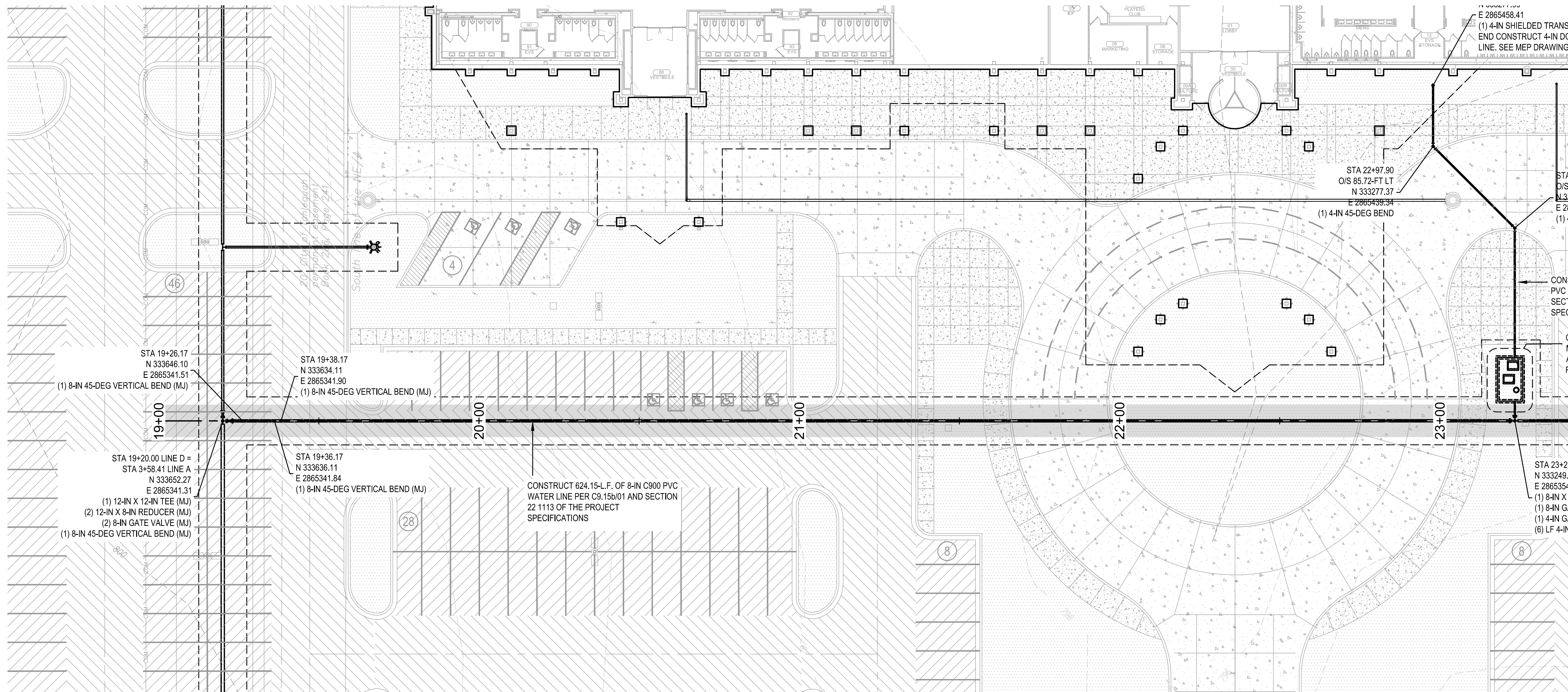
WATER LINE PLAN  
AND PROFILE -  
LINE D

**CIVIL LEGEND**

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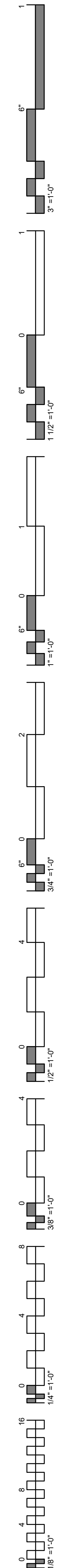
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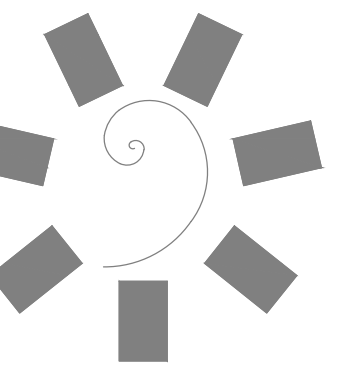
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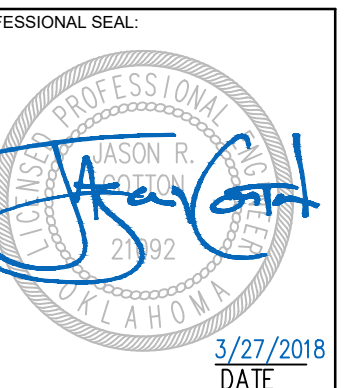
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CLIENT:



CHEROKEE NATION ENTERTAINMENT  
TAHLEQUAH CASINO  
TAHLEQUAH, OKLAHOMA

PROJECT PHASE:  
BID PACKAGE 02  
(100% SET)

| REVISIONS |      |             |
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|           |      |             |
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DATE: 03/27/18 JOB NUMBER: 17-06

SHEET NUMBER:

C7.35b

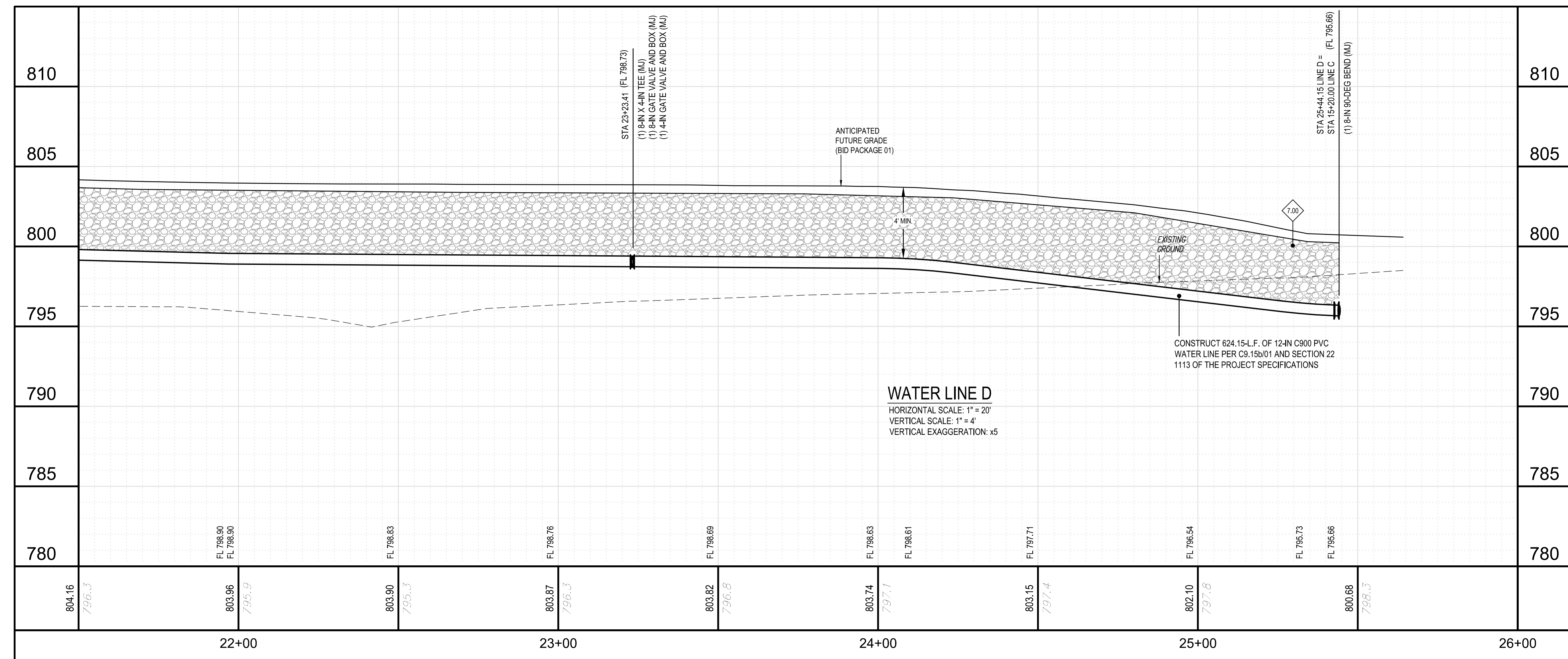
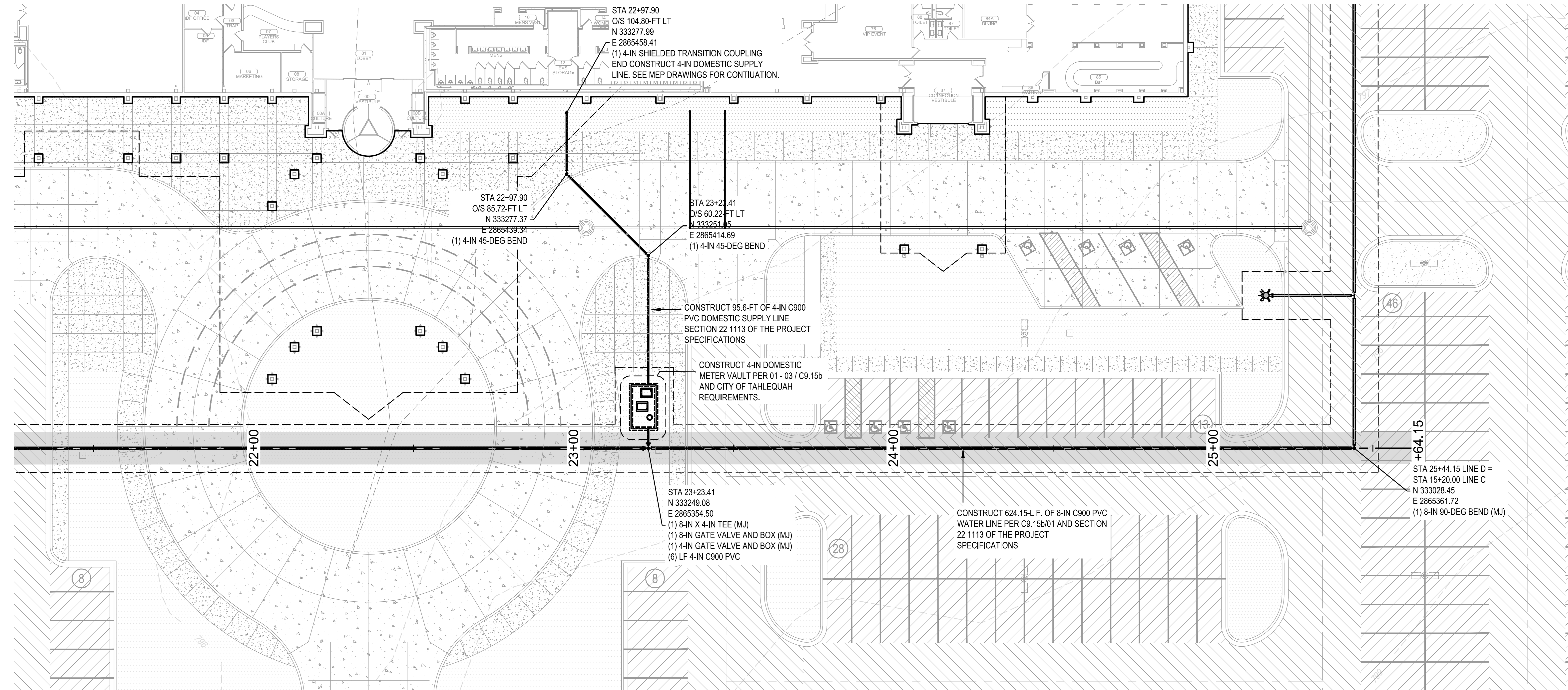
WATER LINE PLAN  
AND PROFILE -  
LINE D (CONT)

CIVIL LEGEND

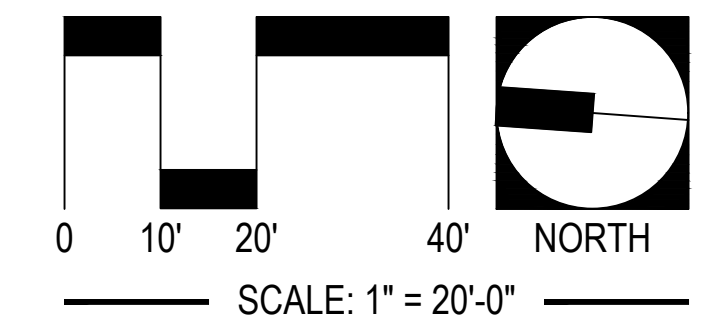
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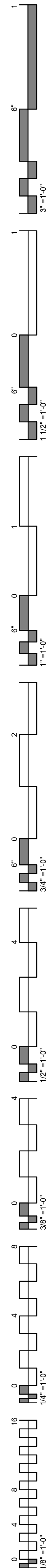


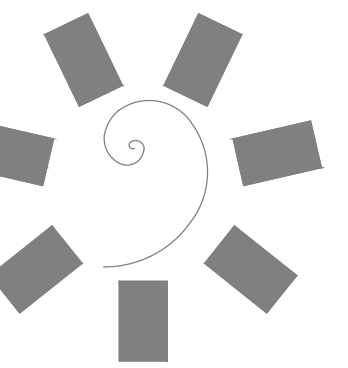
WATER LINE D  
HORIZONTAL SCALE: 1" = 20'  
VERTICAL SCALE: 1" = 4'  
VERTICAL EXAGGERATION: x5



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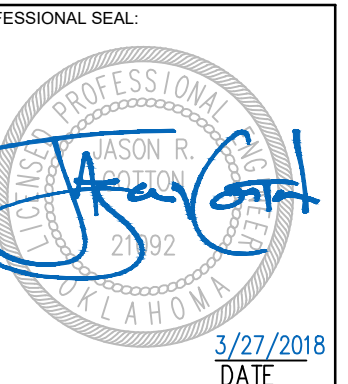
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**CHEROKEE NATION**  
Entertainment



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PROJECT PHASE:  
**BID PACKAGE 02**  
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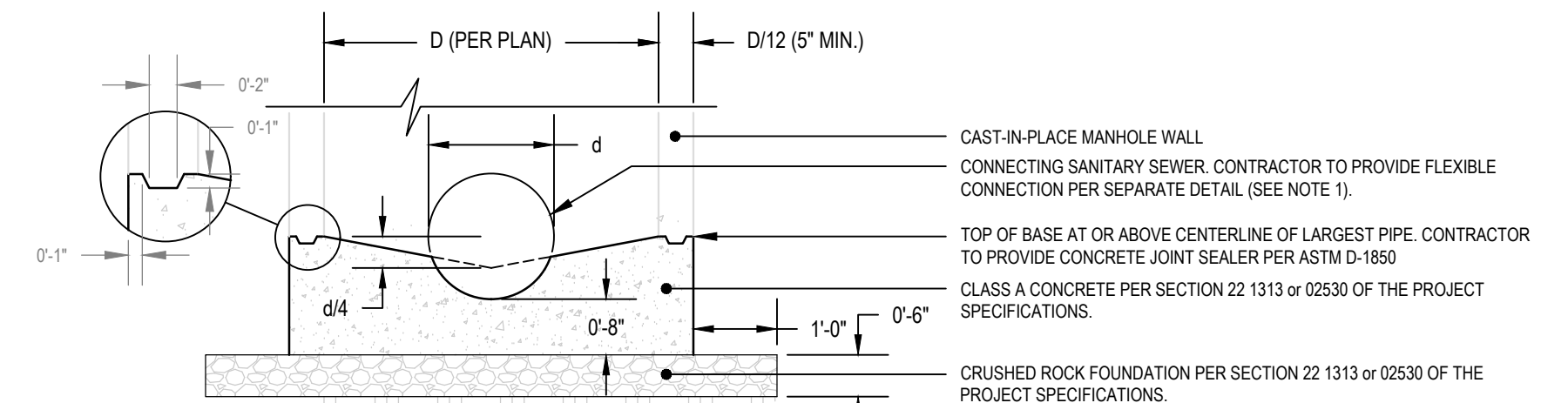
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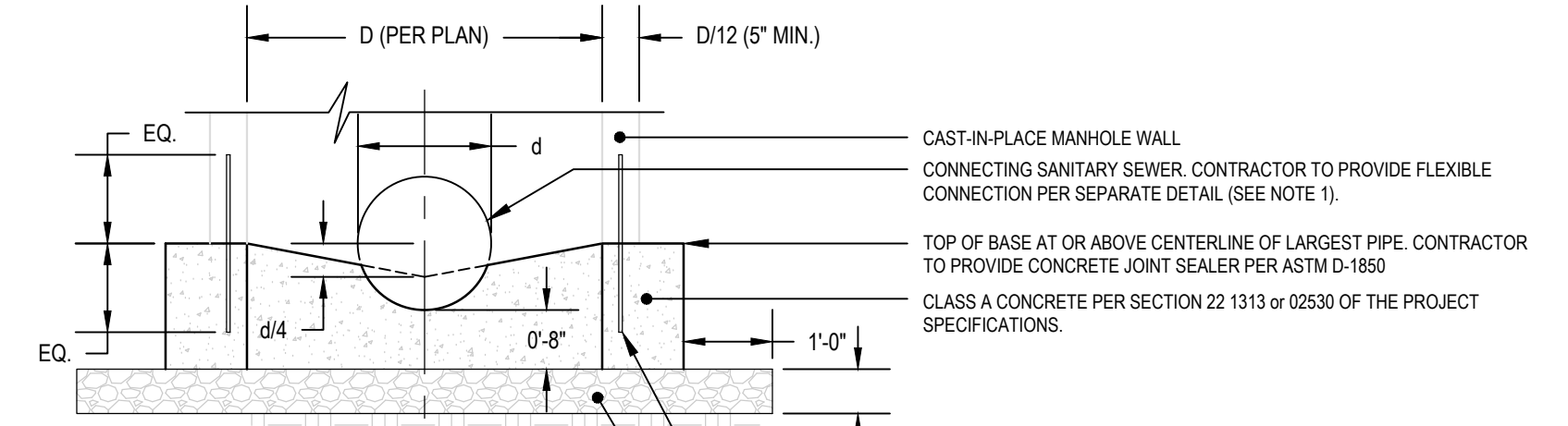
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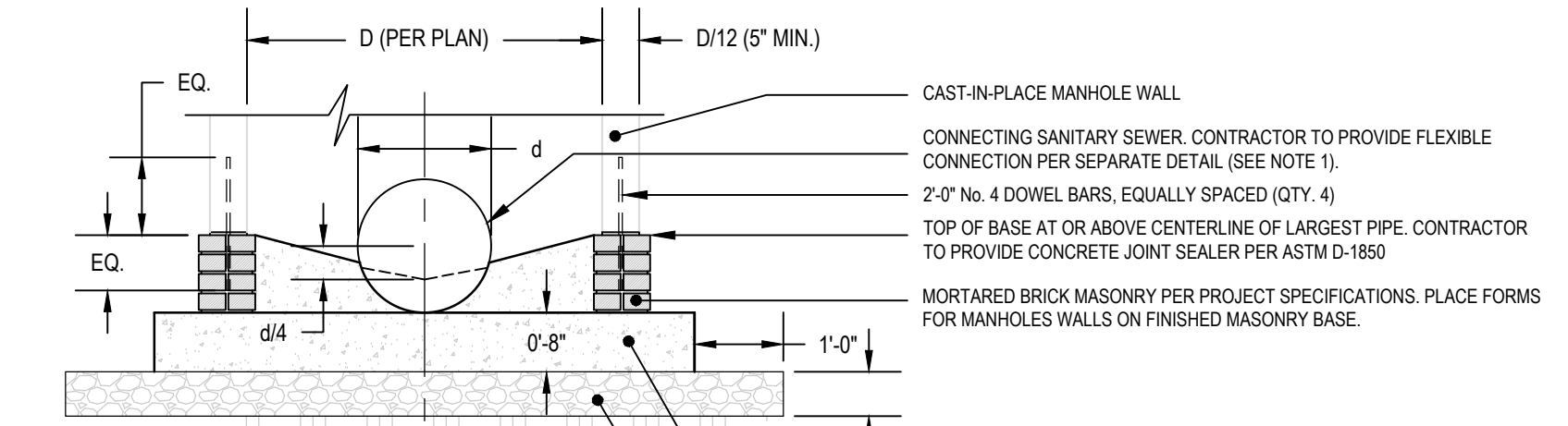
CIVIL CONSTRUCTION DETAILS



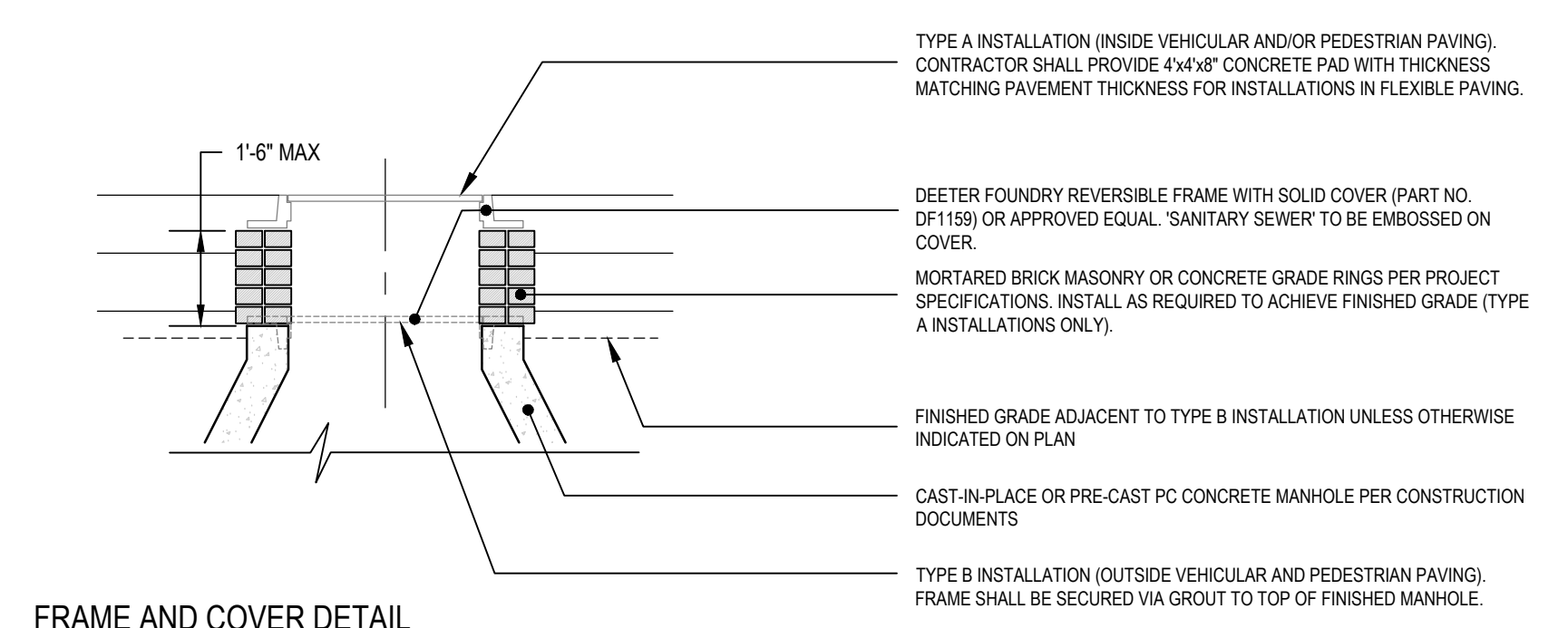
CAST-IN-PLACE MANHOLE: STANDARD BASE CONSTRUCTION



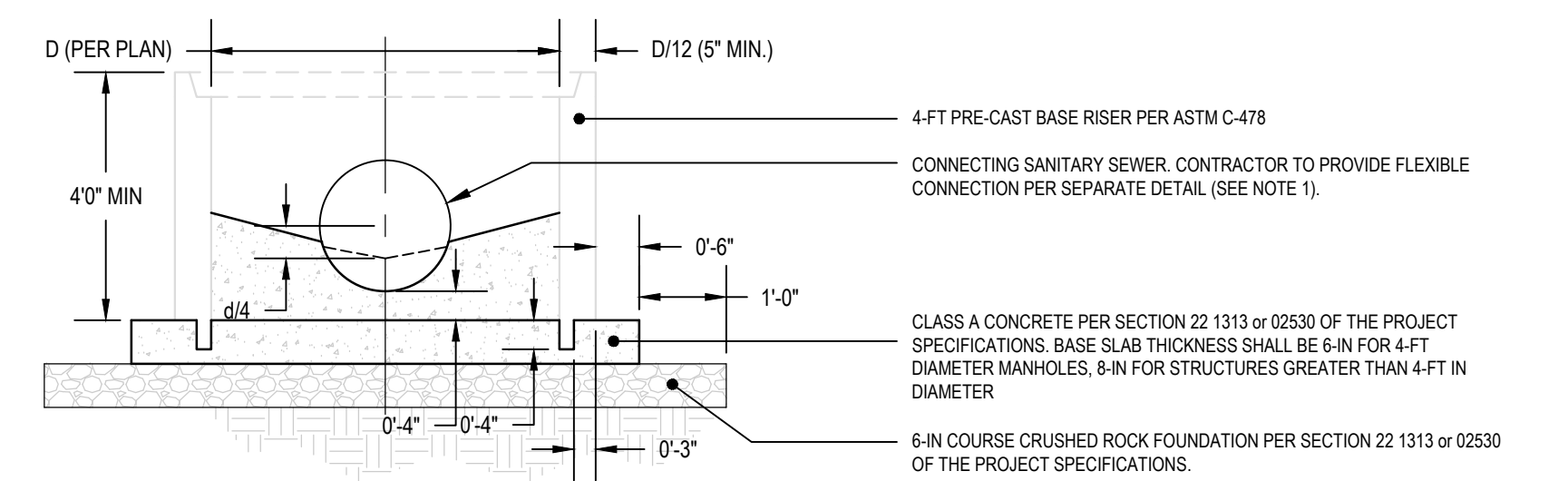
CAST-IN-PLACE MANHOLE: BASE CONSTRUCTION (ALTERNATE I)



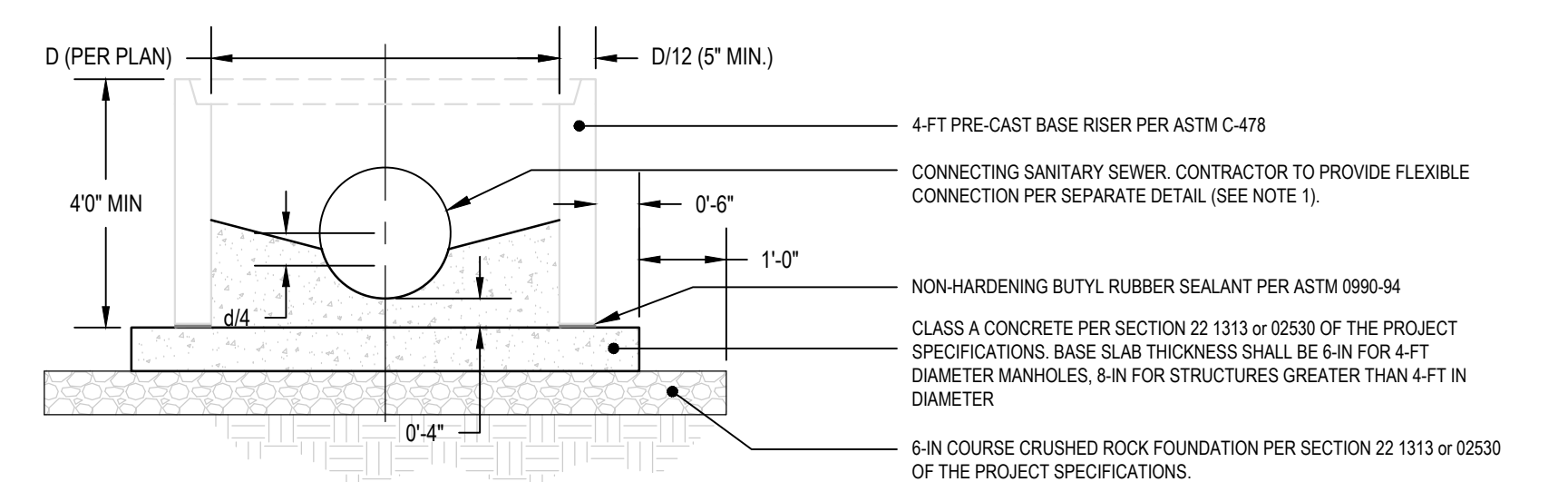
CAST-IN-PLACE MANHOLE: BASE CONSTRUCTION (ALTERNATE II)



FRAME AND COVER DETAIL



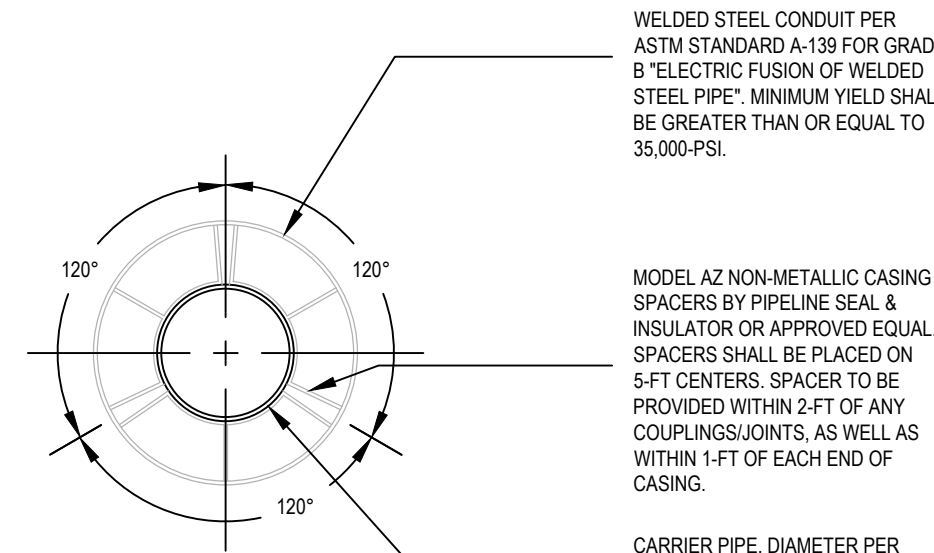
PRE-CAST MANHOLE: BASE RISER SECTION WITH PRE-FORMED SOCKET (OPTION II)



PRE-CAST MANHOLE: BASE RISER SECTION WITH MASTIC SEALER (OPTION I)

GENERAL NOTES:

- CONTRACTOR TO PROVIDE NEOPRENE-EPDM BLENDED COMPOUND BOOT SHALL MEETING THE REQUIREMENTS OF ASTM C-923 AT THE MANHOLE PIPE INTERFACE UNLESS OTHERWISE INDICATED ON THE DRAWINGS OR REQUIRED BY THE PIPE MANUFACTURER. CONTRACTOR RESPONSIBLE FOR ESTABLISHING WATER-TIGHT CONNECTION AT INTERFACE.
- THE MANHOLE RING AND COVER SHALL BE ADJUSTED TO GRADE WITH CONCRETE RINGS OR SUCCESSIVE COURSES OF BRICK MASONRY. WHEN MASONRY UNITS ARE USED, TOTAL HEIGHT OF MASONRY WORK SHALL BE BETWEEN 12-IN AND 18-IN.
- ALL CONCRETE FOR MANHOLE BASES, INVERTS AND WALL SHALL HAVE A MINIMUM COMPRESSION STRENGTH OF 3,000-PSI PER THE PROJECT SPECIFICATIONS.
- FORMS SHALL BE PROVIDED FOR THE SHAPING AND FINISHING OF THE MANHOLE BOTTOMS. A MINIMUM OF TWENTY-FOUR (24) HOURS SHALL ELAPSE PRIOR TO POURING THE MANHOLE WALLS.
- HONEYCOMBING OF CONCRETE LESS THAN TWO (2") INCHES DEEP IN MANHOLE WALLS MAY BE REPAIRED USING TYPE S MORTAR PER ASTM C-270.
- ALL CONSTRUCTION JOINTS SHALL BE CLEANED OF ANY EXCESS FOREIGN MATTER PRIOR TO APPLICATION OF CONCRETE JOINT SEALER. CONCRETE JOINT SEALER SHALL COMPLY WITH ASTM D-1850.
- CAST-IN-PLACE NON-REINFORCED CONCRETE MANHOLES
- CAST-IN-PLACE MANHOLE DIMENSIONS SHALL MEET OR EXCEED THE REQUIRED DIMENSIONS FOR PRECAST REINFORCED CONCRETE MANHOLES AS SPECIFIED BY ASTM C-478 (SEE BELOW).
- PROTECTIVE COATING: PROTECTIVE COATING SHALL NOT BE REQUIRED UNLESS OTHERWISE INDICATED ON THE PLANS OR DIRECTED BY THE ENGINEER.
- THE VERTICAL DROP OF CONCRETE POURS SHALL NOT EXCEED TEN (10) FEET. THE CONTRACTOR MAY UTILIZE A KEYED CONSTRUCTION JOINT WITH (4) NO. 4 DOWEL BARS (EQUALLY SPACED), OR A TREMIE.
- MONOLITHIC POURS OF THE MANHOLE BOTTOM AND WALLS SHALL BE PERMITTED PROVIDED THAT ALL CONCRETE (BOTTOM AND WALLS) IS VIBRATED ACCORDING TO THE PROJECT SPECIFICATIONS.
- PRECAST MANHOLES
- SHOP DRAWINGS OF ALL PRE-CAST MANHOLE STRUCTURES SHALL BE SUBMITTED TO ENGINEER FOR REVIEW AND APPROVAL PRIOR TO STRUCTURE PROCUREMENT.
- PRE-CAST MANHOLES SHALL BE CONSTRUCTED IN ACCORDANCE WITH ASTM C-478. ALL MANHOLE SECTIONS SHALL BE INSTALLED COMPLETE WITH O-RING GASKETS AT EACH JOINT.
- PRE-CAST MANHOLE DIMENSIONS SHALL MEET OR EXCEED THE REQUIREMENTS OF ASTM C-478. THE MINIMUM WALL THICKNESS SHALL NOT BE LESS THAN ONE-TWELFTH (1/12) OF THE INTERNAL DIAMETER OF THE LARGEST CONE OR RISER
- SECTION OR 5-IN, WHICHEVER IS GREATER.
- ALL LIFTING HOLES SHALL BE REPAIRED WITH A MIXTURE OF CEMENT AND SAND GROUT FIRMLY PACKED.
- MANHOLE STEPS AND LADDERS, STEPS AND LADDERS SHALL NOT BE CONSTRUCTED UNLESS OTHERWISE DIRECTED BY THE ENGINEER. IF CALLED FOR, THEY SHALL CONFORM WITH SECTION 13 OF ASTM C-478.

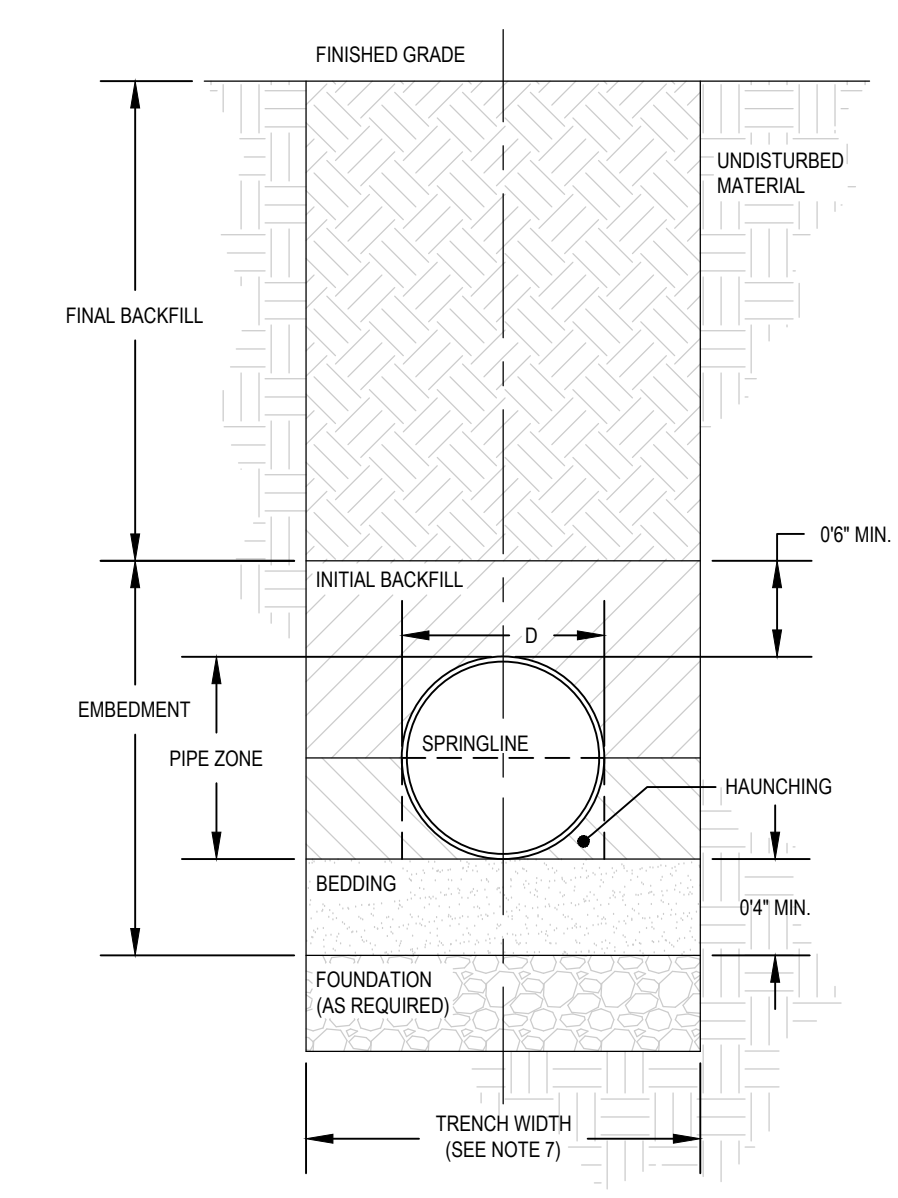


GENERAL NOTES:

- CONTRACTOR RESPONSIBLE FOR CONFIRMING PROPOSED CASING SIZE IS APPROPRIATE FOR PROPOSED CARRIER PIPE DIAMETER PRIOR TO CASING PROCUREMENT.
- CONTRACTOR TO PROVIDE MODEL 'C' PULL-ON END SEALS BY PIPELINE SEAL & INSULATOR (OR APPROVED EQUAL) AT EACH END OF PROPOSED CASING.
- BORED INSTALLATIONS: CONTRACTOR RESPONSIBLE FOR FIELD LOCATING AND DETERMINING EXACT DEPTH OF ANY INTERSECTING UTILITIES PRIOR TO INITIATING WORK.

| Steel Conduit Schedule     |                         |                               |                |  |
|----------------------------|-------------------------|-------------------------------|----------------|--|
| Carrier Pipe Diameter (in) | Diameter of Casing (in) | Minimum Casing Wall Thickness |                |  |
|                            |                         | Under Highway                 | Under Railroad |  |
| 4                          | 12                      | 0.250                         | 0.188          |  |
| 6                          | 12                      | 0.250                         | 0.188          |  |
| 8                          | 16                      | 0.250                         | 0.188          |  |
| 10                         | 18                      | 0.250                         | 0.188          |  |
| 12                         | 20                      | 0.375                         | 0.281          |  |
| 16                         | 24                      | 0.375                         | 0.312          |  |
| 18                         | 26                      | 0.375                         | 0.375          |  |
| 20                         | 30                      | 0.500                         | 0.406          |  |
| 24                         | 33                      | 0.500                         | 0.463          |  |
| 30                         | 40                      | 0.500                         | 0.500          |  |
| 36                         | 54                      | 0.500                         | 0.500          |  |

03 SLEEVED SANITARY SEWER INSTALLATION  
SCALE: AS SHOWN



GENERAL NOTES:

- PRIVATE PVC SANITARY SEWER LINE SHALL BE AS SPECIFIED BY THE DRAWINGS AND SECTION 22 1313 or 02530 OF THE PROJECT SPECIFICATIONS. THE FOLLOWING STANDARDS (LATEST EDITION) SHALL APPLY AS APPROPRIATE:
  - SOR PIPE: ASTM D3034 - STANDARD SPECIFICATION FOR TYPE PSM POLY(VINYL CHLORIDE) (PVC) SEWER PIPE AND FITTINGS.
  - SCHEDULE PIPE: ASTM D2665 - STANDARD SPECIFICATION FOR POLY(VINYL CHLORIDE) (PVC) PLASTIC DRAIN, WASTE, AND VENT PIPE AND FITTINGS.
- PROVIDED DETAIL SHALL BE USED FOR EXTENSION OF PRIVATE SANITARY SEWER LINES ONLY. PUBLIC SANITARY SEWER LINE EXTENSIONS SHALL BE BEDDED AND BACKFILLED PER THE REQUIREMENTS OF THE MUNICIPALITY WHICH WILL BE ACCEPTING THE IMPROVEMENTS AT THE COMPLETION OF THE WORK.
- ALL INSTALLATIONS SHALL MEET THE REQUIREMENTS OF INTERNATIONAL PLUMBING CODE (CURRENT EDITION) AND OAC 252.656 WATER POLLUTION CONTROL FACILITY CONSTRUCTION STANDARDS (CURRENT EDITION).
- DEPTH FROM FINISHED GRADE TO TOP OF PIPE SHALL BE AS SPECIFIED ON THE CONSTRUCTION DRAWINGS. IN NO INSTANCE SHALL THE DEPTH OF COVER BE LESS THAN 36-IN.
- COMPACTION REQUIREMENTS NOTED ARE AS REQUIRED TO SUPPORT THE PIPE INSTALLATION. COMPACTION ABOVE AND BEYOND THAT SPECIFIED MAY BE REQUIRED TO ENSURE THAT (1) SETTLEMENT DOES NOT OCCUR AFTER INSTALLATION, AND (2) PAVING AND PROPOSED STRUCTURES ABOVE INSTALLATION ARE PROPERLY SUPPORTED BY BACKFILL. AS A RESULT, COMPACTION REQUIREMENTS SPECIFIED BY THE GEOTECHNICAL ENGINEER SHALL BE CONSIDERED TO SUPERCEDE THOSE NOTED.
- FOR INSTALLATIONS BENEATH PROPOSED VEHICULAR PAVING, CONTRACTOR SHALL PROVIDE CLASS I OR CLASS II MATERIAL TO BOTTOM OF PROPOSED PAVING ELEVATION.
- WHERE TRENCH WALLS ARE STABLE OR SUPPORTED, PROVIDE A WIDTH SUFFICIENT, BUT NO GREATER THAN NECESSARY, TO ENSURE WORKING ROOM TO PROPERLY AND SAFELY PLACE AND COMPACT HAUNCHING AND OTHER EMBEDMENT MATERIALS. THE SPACE BETWEEN THE PIPE AND TRENCH WALL MUST BE WIDER THAN THE COMPACTION EQUIPMENT USED IN THE PIPE ZONE. MINIMUM WIDTH SHALL BE NOT LESS THAN THE GREATER OF EITHER THE PIPE OUTSIDE DIAMETER PLUS 16 IN. (400 MM) OR THE PIPE OUTSIDE DIAMETER TIMES 1.25, PLUS 12 IN. (300 MM).
- CONTRACTOR RESPONSIBLE FOR REVEGETATION OF ALL DISTURBED AREAS THAT ARE OUTSIDE THE LIMITS OF AREAS SPECIFICALLY IDENTIFIED TO RECEIVE VEGETATIVE COVER AT THE COMPLETION OF THE PROJECT. REVEGETATION TO BE COMPLETED VIA SOLID SLAB SOD PER CORRESPONDING SECTIONS OF THE PROJECT SPECIFICATIONS.

01 GRAVITY SEWER TRENCH DETAIL (PVC)  
SCALE: AS SHOWN

02 PC CONCRETE SANITARY SEWER MANHOLE  
SCALE: AS SHOWN

Recommendations for Installation and Use of Soils and Aggregates for Foundation and Pipe-Zone Embedment per ASTM D2321

| Soil Class A   | Class I B   | Class II   | Class III  | Class IV   |
|--|---|--|--|--|
| <b>General Recommendations and Restrictions</b>                                  | Acceptable and common where no migration is probable or when combined with a geotextile filter media. Suitable for use as a drainage blanket and under drain where adjacent material is suitably graded or when used with a geotextile filter fabric. | Where hydraulic gradient exists check gradation to minimize migration. Clean groups are suitable for use as a drainage blanket and under drain. Uniform fine sands (SP) with more than 50 % passing a #100 sieve (0.006 in., 0.15 mm) behave like silts and should be treated as Class IV soils. | Do not use where water conditions in trench prevent proper placement and compaction. Not recommended for use with pipes with stiffness of 9 psi or less. | Difficult to achieve high-soil stiffness. Do not use where water conditions in trench prevent proper placement and compaction. Not recommended for use with pipes with stiffness of 9 psi or less. |
| <b>Foundation</b>  | Suitable as foundation and for replacing over-excavated and unstable trench bottom as restricted above.   | Suitable as foundation and for replacing over-excavated and unstable trench bottom as restricted above. Install and compact in 12 in. (300 mm) maximum layers.   | Suitable for replacing over-excavated trench bottom as restricted above. Install and compact in 6 in. (150 mm) maximum layers.                           | Suitable as restricted above. Difficult to place and compact in the haunch zone.   |
| <b>Pipe Embedment</b>  | Suitable as restricted above. Work material under pipe to provide uniform haunch support.   | Suitable as restricted above. Difficult to place and compact in the haunch zone.   | Suitable as restricted above. Difficult to place and compact in the haunch zone.   | Suitable as restricted above. Difficult to place and compact in the haunch zone.   |
| <b>Embedment Compaction: recommended Percent Compaction, SPD D</b>               | See Note C  | 85% (SW and SP soils). For GW and GP soils, see Note E   | 90%  | 95%  |
| <b>Relative Compactive Effort Required to Achieve Minimum Percent Compaction</b> | low   | moderate   | high   | very high  |
| <b>Compaction Methods</b>  | vibration or impact   | vibration or impact  | impact   | impact   |
| <b>Required Moisture Control</b>   | none  | none   | Maintain near optimum to minimize compactive effort  |  |

A Class V materials are unsuitable as embedment. They may be used as final backfill as permitted by the engineer.

B Class I materials have higher stiffness than Class II materials, but data on specific soil stiffness of placed, uncompacted Class I materials can be taken equivalent to Class II materials compacted to 95% of maximum standard Proctor density (SPD95), and the soil stiffness of compacted Class I materials can be taken equivalent to Class II materials compacted to 100% of maximum standard Proctor density (SPD100). Even if placed uncompacted (that is, dumped), Class I materials should always be worked into the haunch zone to assure complete placement.

C Suitable compaction typically achieved by dumped placement (that is, uncompacted but worked into haunch zone to ensure complete placement).

D SPD is standard Proctor density as determined by Test Method D698.

E Place and compact GW and GP soils with at least two passes of compaction equipment.

Soil Classes (ASTM D2321)

| Class | Description A,B  | Percentage Passing Sieve Sizes |                   |                 |                    | AASHTO Soil Groups C |
|-------|--|--------------------------------|-------------------|-----------------|--------------------|----------------------|
|       |  | 1.5-in (40-mm)                 | 3/8-in (9.525-mm) | No. 4 (4.75-mm) | No. 200 (0.075-mm) |                      |
| I     | crushed rock, angular D  | 100%                           | < 25%             | < 15%           | < 12%              |                      |
| II    | clean, coarse grained soils: SW, SP, GW, GP or any soil beginning with one of these symbols      |                                |                   |                 | < 12% E, F         | A1, A3               |
| III   | coarse grained soils with fines: GM, GC, SM, SC, or any soil beginning with one of these symbols |                                |                   |                 | > 12%              | A-2, A-2.5, A-2.6    |
| IV    | sandy or gravelly fine-grained soils: CL, ML, or any soil beginning with one of these symbols    |                                |                   |                 | < 70%              | A-4, A-6             |
| IV    | fine-grained soils: CL, ML, or any soil beginning with one of these symbols                      |                                |                   |                 | > 70%              | A-2, A-4, A-6        |
| A     | MH, CH, CL, OH, PT   |                                |                   |                 |                    | A5, A7               |

IV See Classification D2487, Standard Classification of Soils for Engineering Purposes (Unified Soil Classification System).

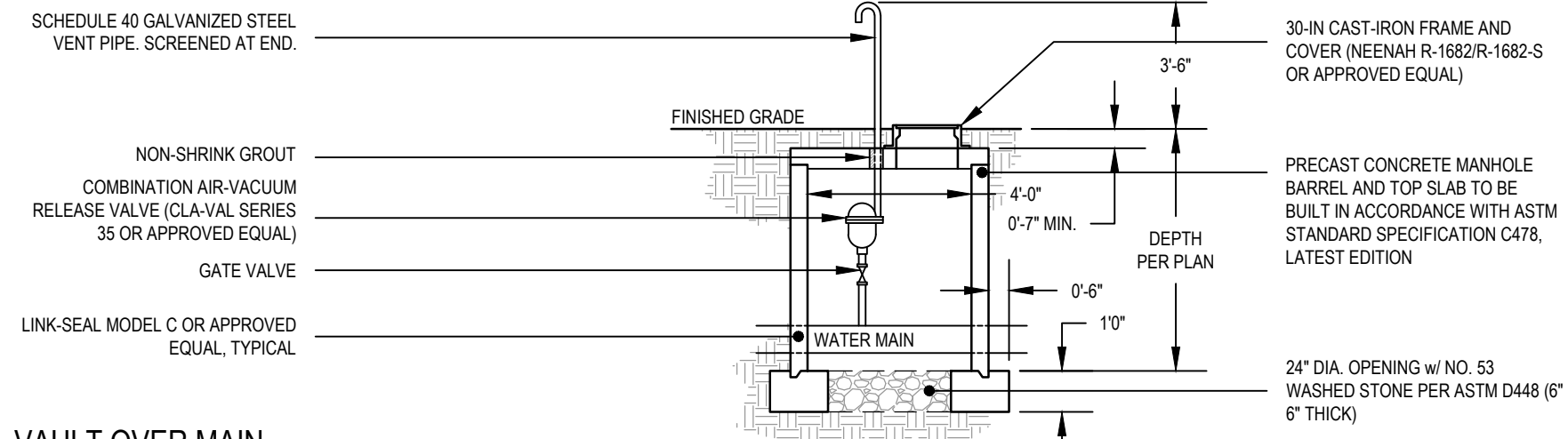
B Limits may be imposed on the soil group to meet project or local requirements if the specified soil remains within the group. For example, some project applications require a Class I material with minimal fines to address specific structural or hydraulic conditions and the specification may read "Use Class I soil with a maximum of 5% passing the #200 sieve."

C AASHTO M145, Classification of Soils and Soil Aggregate Mixtures.

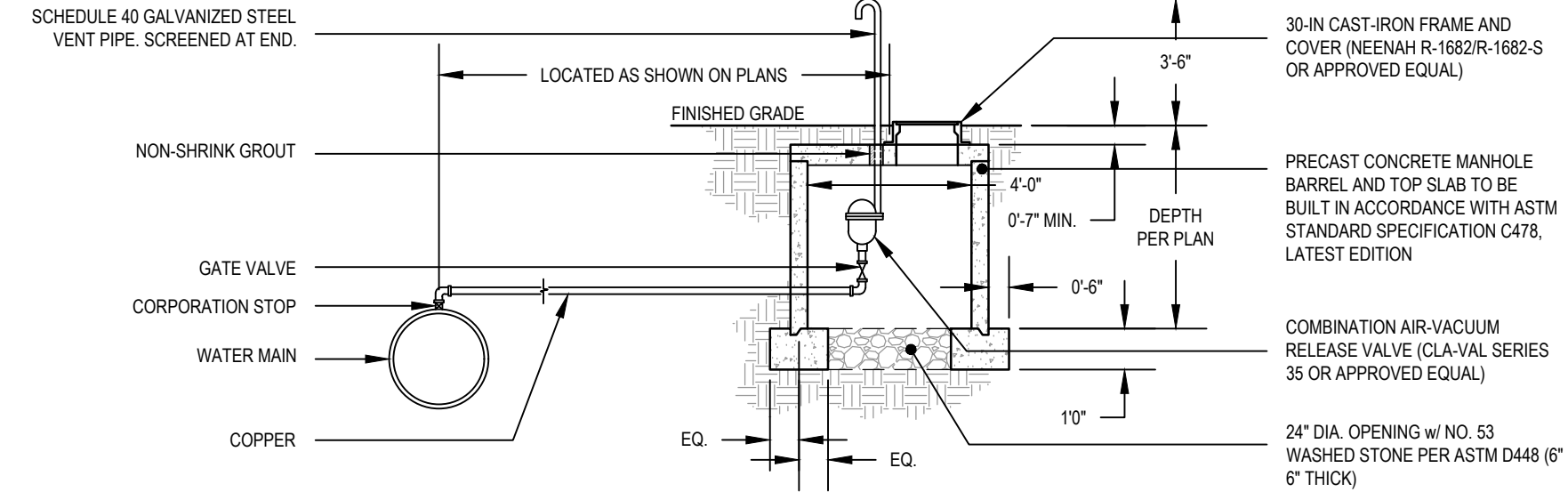
D All particle faces shall be fractured.

E Materials such as broken coral, shells, and recycled concrete, with less than or equal to 12% passing a No. 200 sieve, are considered to be Class II materials. These materials should only be used when evaluated and approved by the Engineer.

F Uniform fine sands (SP) with more than 50% passing a No. 100 sieve (0.006 in., 0.15 mm) are very sensitive to moisture and should not be used as backfill unless specifically allowed in the contract documents. If use of these materials is allowed, compaction and handling procedures should follow the guidelines for Class III materials.



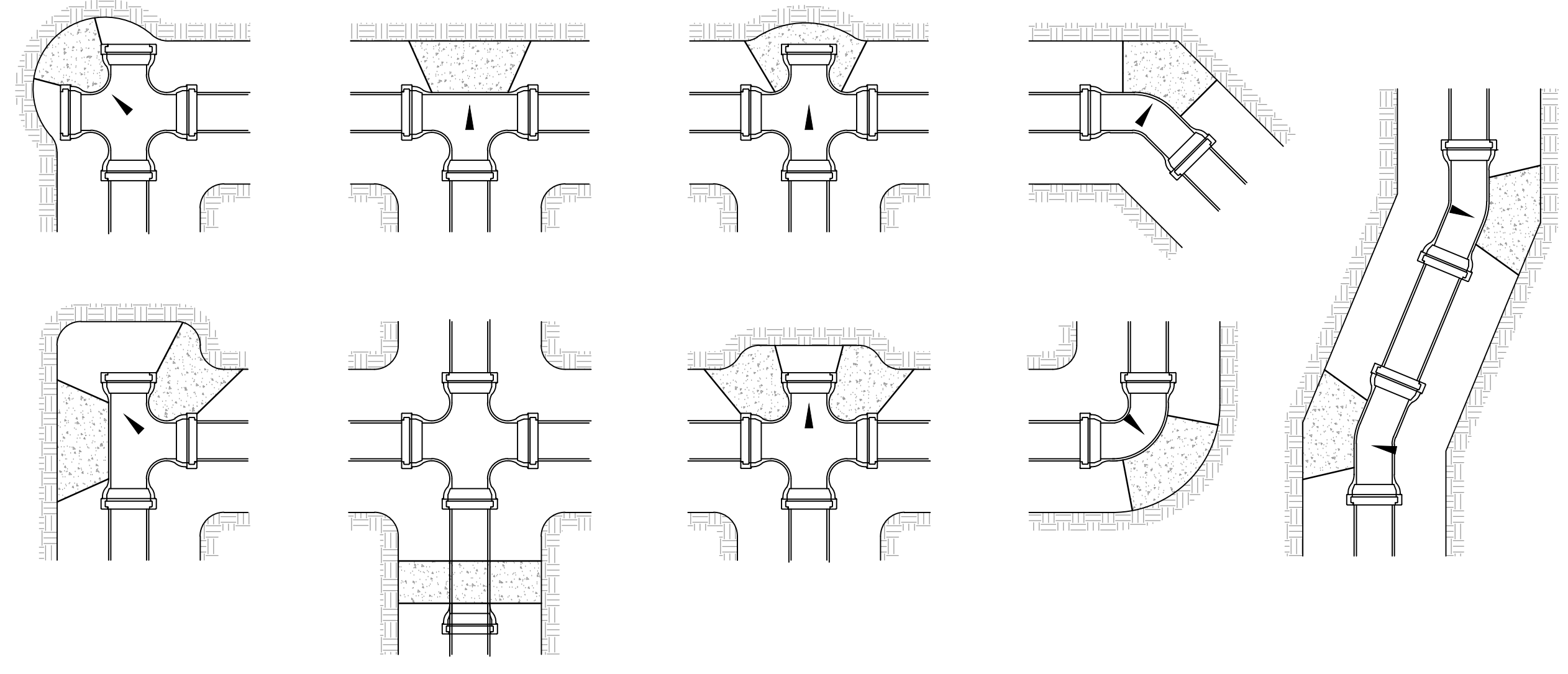
VAULT OVER MAIN



VAULT OFFSET FROM MAIN

05 AIR RELIEF VALVE AND VAULT

SCALE: AS SHOWN

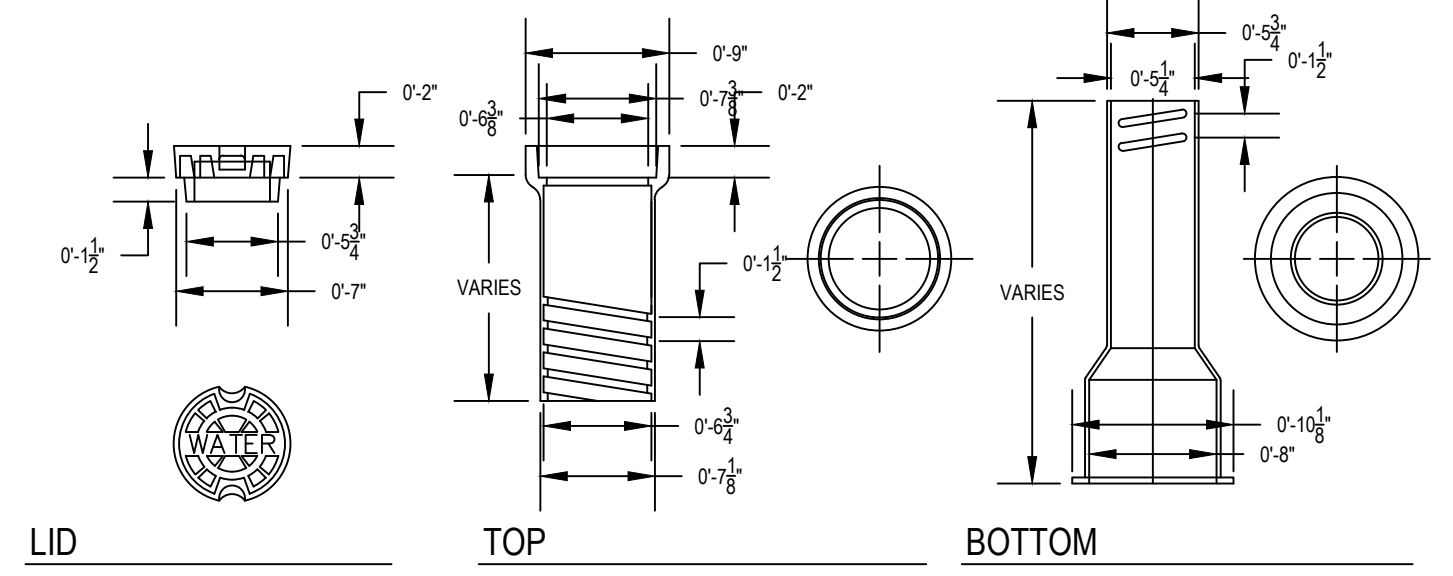


GENERAL NOTES:

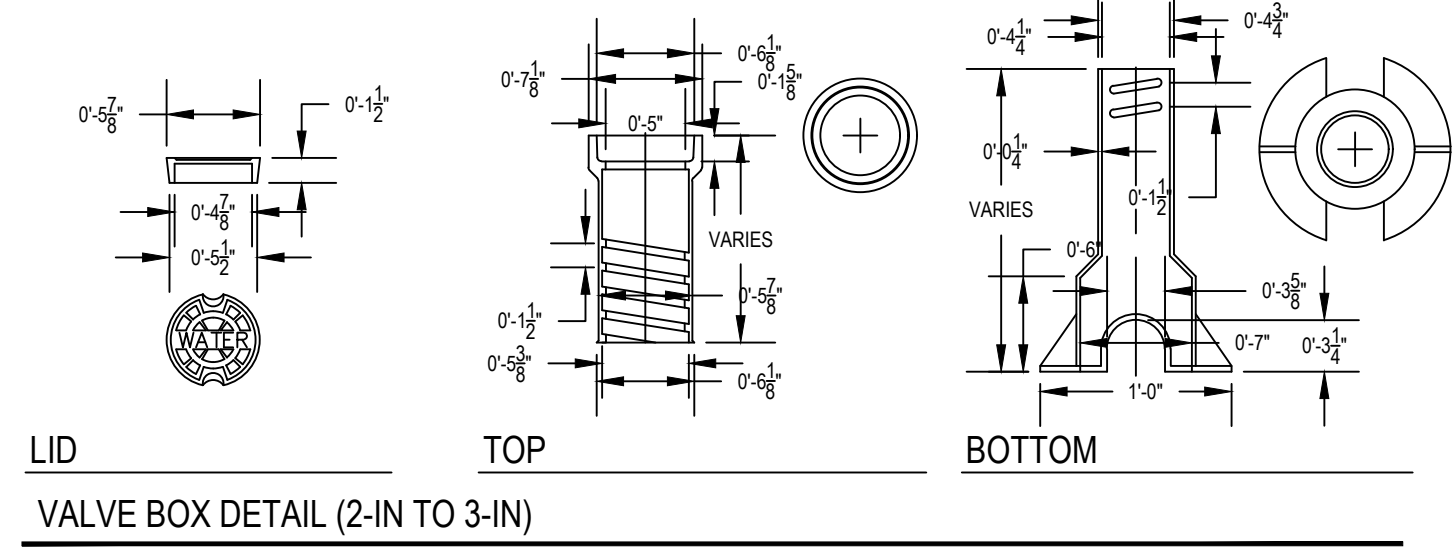
- IN SOFT, UNSTABLE SOILS SUCH AS MUCK OR PEAT, THRUSTS MAY BE RESISTED BY RUNNING CORROSION-RESISTANT THE RODS TO SOLID FOUNDATIONS OR BY REMOVING SOFT MATERIALS AND REPLACING IT WITH A BALLAST OF SUFFICIENT SIZE AND WEIGHT TO RESIST THE THRUSTS DEVELOPED.
- PRE-CAST THRUST BLOCKS SHALL NOT BE PLACED DIRECTLY AGAINST PVC PIPE TO AVOID POINT LOADING. AN INFERIOR BLOCK SHALL BE USED TO PROVIDE ADEQUATE FORCE DISTRIBUTION.
- WHERE A FITTING IS USED TO MAKE A VERTICAL BEND, THE FITTING SHALL BE ANCHORED TO A THRUST BLOCK BRACED AGAINST UNDISTURBED SOIL. THRUST BLOCK SHALL HAVE ENOUGH RESISTANCE TO WITHSTAND UPWARD THRUSTS AT THE FITTING.
- RESTRAINED JOINTS MAY BE UTILIZED IN LIEU OF CONCRETE THRUST BLOCKING. WHERE UTILIZED, SUCH INSTALLATIONS SHALL MEET THE REQUIREMENTS OF THE PLANS AND SPECIFICATIONS.

04 VALVE BOX

SCALE: AS SHOWN



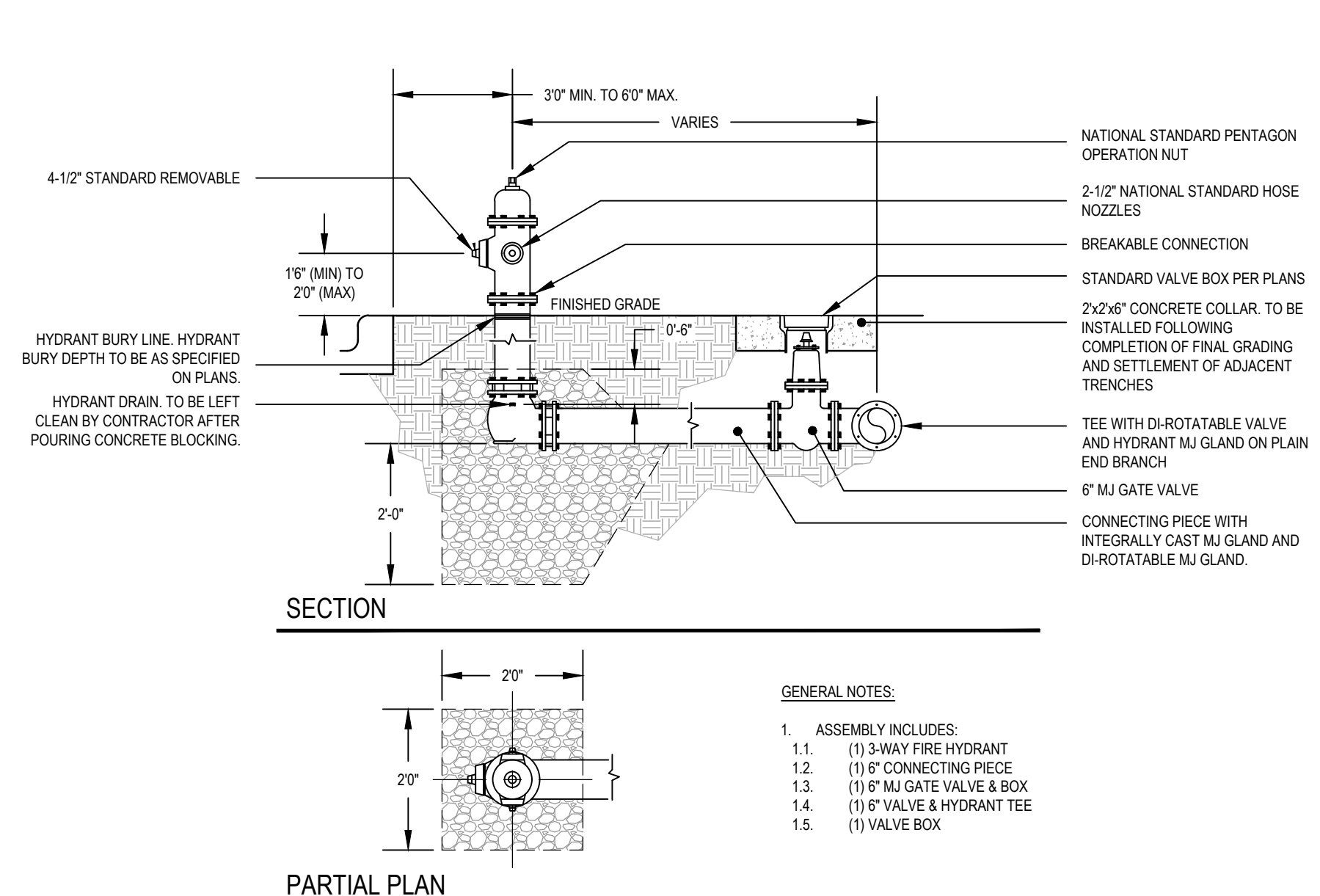
VALVE BOX DETAIL (4-IN TO 12-IN)



VALVE BOX DETAIL (2-IN TO 3-IN)

03 HYDRANT DETAIL - W-09a

SCALE: AS SHOWN

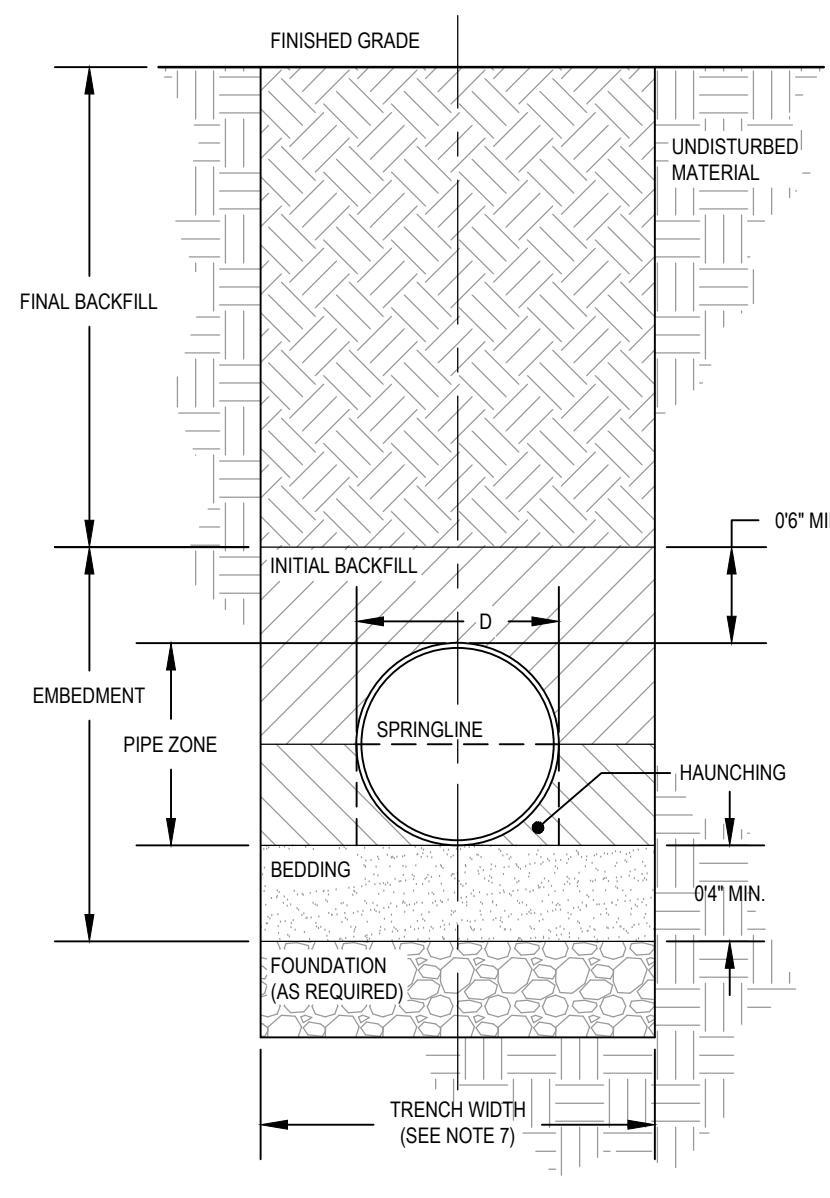


GENERAL NOTES:

- ASSEMBLY INCLUDES:
  - (1) 3-WAY FIRE HYDRANT
  - (1) 6\"/>

02 THRUST BLOCK

SCALE: AS SHOWN



| Class | Description   | Percentage Passing Size Sieves |                           |                           |                               |
|-------|---|--------------------------------|---------------------------|---------------------------|-------------------------------|
|       |   | 1.5-in (40-mm)                 | 3/8-in (9.525-mm)         | No. 4 (4.75-mm)           | No. 200 (0.075-mm)            |
| I     | crushed rock (B.C)  | 100% (D)                       | less than or equal to 25% | less than or equal to 15% | less than or equal to 12%     |
| II    | clean, coarse grained soils E.F. SW, SP, GV, GP or any soil beginning with one of these symbols           |                                |                           |                           | less than or equal to 12% (E) |
|       | coarse grained soils with fines: GM, GC, SM, SC, or any soil beginning with one of these symbols          |                                |                           |                           |                               |
| III   | sandy or gravelly fine-grained soils: CL, ML, or any soil beginning with one of these symbols             |                                |                           |                           | < 70%                         |
| IV    | fine-grained soils: CL, ML, or any soil beginning with one of these symbols                               |                                |                           |                           | > 70%                         |
|       | fine-grained soils, organic soils, high compressibility silts and clays, organic soil: MH, CH, OL, OH, PT |                                |                           |                           |                               |

(A) Soil classification descriptions and symbols are in accordance with ASTM Practice D2487 and D2488.  
 (B) For Class I, all particle faces shall be fractured.  
 (C) Additional restrictions on Class I material particle size: The particle size of material in contact with the pipe shall not exceed the following: 1/2 in. for pipe to 4 in., 3/4 in. for pipes 6 to 8 in., 1 in. for pipes 10 to 16 in., and 1 1/2 in. for larger pipes. Each soil layer shall be sufficiently compacted to uniformly develop lateral passive soil forces during the backfill operation.  
 (D) Sieves and sieve cloths shall be in accordance with ASTM Specification E11.  
 (E) Materials such as broken coral, shells, and recycled concrete, with less than 12% passing a No. 200 sieve, should be treated as Class II soils.  
 (F) Uniform fine sands (SP) with more than 50% passing a No. 100 sieve (0.005 in., 0.15 mm) are very sensitive to moisture and should not be used as backfill unless specifically allowed in the contract documents. If use of these materials is allowed, compaction and handling procedures should follow the guidelines for Class III materials.

01 PIPE BEDDING AND BACKFILL - PRIVATE PVC (ASTM D2774)

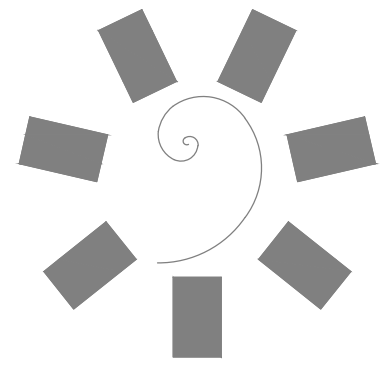
SCALE: AS SHOWN

GENERAL NOTES:

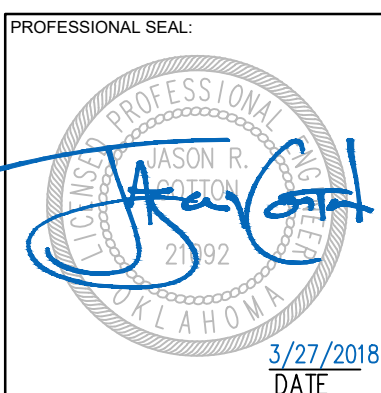
- PRIVATE PVC WATER LINE SHALL BE AS SPECIFIED BY THE DRAWINGS AND SECTION 22 1113 OF THE PROJECT SPECIFICATIONS. THE FOLLOWING STANDARDS (LATEST EDITION) SHALL APPLY AS APPROPRIATE:
  - ASTM D1785: STANDARD SPECIFICATION FOR POLY(VINYL CHLORIDE) (PVC) PLASTIC PIPE, SCHEDULES 40, 80, AND 120.
  - ASTM D2241: STANDARD SPECIFICATION FOR POLY(VINYL CHLORIDE) (PVC) PRESSURE-RATED PIPE (SDR SERIES).
  - AWWA C900: POLY(VINYL CHLORIDE) (PVC) PRESSURE PIPE AND FABRICATED FITTINGS, 4 IN. THROUGH 12 IN., FOR WATER DISTRIBUTION, (100 MM THROUGH 300 MM).
  - AWWA C905: POLY(VINYL CHLORIDE) (PVC) PRESSURE PIPE AND FABRICATED FITTINGS, 14 IN. THROUGH 48 IN. (350 MM THROUGH 1,200 MM), FOR WATER TRANSMISSION AND DISTRIBUTION.
- PROVIDED DETAIL SHALL BE USED FOR EXTENSION OF PRIVATE PVC WATER LINES ONLY. PUBLIC PVC WATER LINE EXTENSIONS SHALL BE BEDDED AND BACKFILLED PER THE REQUIREMENTS OF THE MUNICIPALITY WHICH WILL BE ACCEPTING THE IMPROVEMENTS AT THE COMPLETION OF THE WORK.
- ALL INSTALLATIONS SHALL MEET THE REQUIREMENTS OF INTERNATIONAL PLUMBING CODE (CURRENT EDITION), AWWA C605 (CURRENT EDITION) AND OAC 252-656 WATER POLLUTION CONTROL FACILITY CONSTRUCTION STANDARDS (CURRENT EDITION).
- FOR INSTALLATIONS BENEATH PROPOSED VEHICULAR PAVING, CONTRACTOR SHALL PROVIDE CLASS I OR CLASS II MATERIAL TO BOTTOM OF PROPOSED PAVING ELEVATION.
- TRENCH STABILITY—DURING TRENCH EXCAVATION, ENSURE THAT THE TRENCH SIDES SHALL BE STABLE UNDER ALL WORKING CONDITIONS. THE TRENCH WALLS SHALL BE SLOPED OR APPROPRIATE SUPPORTS PROVIDED TO COMPLY WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL REQUIREMENTS FOR SAFETY.
- TRENCH WIDTH—THE WIDTH OF THE TRENCH AT ANY POINT BELOW THE TOP OF THE PIPE SHALL BE SUFFICIENT TO PROVIDE ADEQUATE ROOM FOR THE FOLLOWING REQUIREMENTS:
  - JOINING THE PIPE IN THE TRENCH IF THIS IS REQUIRED
  - SNAGGING OF SMALL DIAMETER, HEAT FUSED OR SOLVENT CEMENTED PIPE FROM SIDE-TO-SIDE ALONG THE BOTTOM OF THE TRENCH, WHEN THE EFFECTS OF CONTRACTION ARE NOT OTHERWISE ACCOMMODATED
  - FILLING AND COMPACTING THE SIDE FILLS
  - CHECKING THE ELASTOMERIC SEAL JOINTS.
  - MINIMUM TRENCH WIDTHS SHALL BE PERMITTED TO BE UTILIZED WITH MOST SOLVENT-CEMENTED AND HEAT-FUSED PRESSURE PIPE MATERIALS BY JOINING THE PIPE OUTSIDE THE TRENCH AND LOWERING THE PIPE INTO THE TRENCH AFTER ADEQUATE JOINT STRENGTH HAS BEEN ATTAINED. THIS PRACTICE SHALL BE PERMITTED TO BE USED FOR GASKET JOINT PIPE, WITH MANUFACTURERS APPROVAL. PROVIDING CARE IS TAKEN TO NOT DISASSEMBLE THE JOINTS DURING LOWERING.
  - TRENCH BOTTOM—THE TRENCH BOTTOM SHALL BE PREPARED FOR THE DIRECT REPLACEMENT OF THE PIPE AND SHALL BE CONTINUOUS, RELATIVELY SMOOTH, FREE OF ROCKS, AND PROVIDE UNIFORM SUPPORT FOR BELL-ENDED OR COUPLED PIPE. SUITABLE "BELL-HOLES" SHALL BE PROVIDED AT EACH JOINT TO PERMIT THE JOINT TO BE ASSEMBLED AND THE PIPE TO BE SUPPORTED PROPERLY.
  - WHERE LEDGE ROCK, HARDPAN, OR BOULDERS ARE ENCOUNTERED, IT SHALL BE REQUIRED TO PAD THE TRENCH BOTTOM WITH A BEDDING OF AT LEAST 4-IN. (100-MM) THICKNESS OF COMPACTED CLASS I OR II MATERIAL. IN SITUATIONS WHERE RAPID MOVEMENT OF WATER TAKES PLACE THROUGH THIS BEDDING, THE CLASS I OR II MATERIAL USED SHALL HAVE GRADATION THAT PREVENTS LOSS BY MIGRATION OF ANY PIPE EMBEDMENT MATERIAL.
  - TRENCH DEPTH AND PIPE COVER—EXCAVATION FOR PIPE TRENCHES SHALL BE TO THE LINES, GRADES, AND DIMENSIONS SHOWN ON THE CONTRACT DRAWINGS. SUFFICIENT COVER SHALL BE MAINTAINED TO ADEQUATELY REDUCE THE TRAFFIC OR OTHER CONCENTRATED AND IMPACT LOADS.
  - RELIABILITY AND SAFETY OF SERVICE SHALL ASSUME MAJOR IMPORTANCE IN DETERMINING MINIMUM COVER FOR ANY INTENDED SERVICE. LOCAL, STATE, OR FEDERAL CODES SHALL ALSO GOVERN. PIPE INTENDED FOR WINTER WATER SERVICE SHALL HAVE A MINIMUM COVER EQUAL TO OR GREATER THAN THE MAXIMUM EXPECTED FROST PENETRATION DEPTH.

- A MINIMUM COVER OF 24 IN. (610 MM) FOR PIPE SHALL BE REQUIRED WHEN SUBJECT TO HEAVY OVERHEAD TRAFFIC. IN AREAS OF LIGHT OVERHEAD TRAFFIC A MINIMUM COVER OF 12 TO 18 IN. (305 TO 457 MM) IS REQUIRED.
- THE PIPE SHALL BE UNIFORMLY AND CONTINUOUSLY SUPPORTED OVER ITS ENTIRE LENGTH ON FIRM STABLE MATERIAL. BLOCKING SHALL NOT BE USED TO CHANGE PIPE GRADE OR TO INTERMITTENTLY SUPPORT PIPE ACROSS EXCAVATED SECTIONS.
- PIPE SHALL BE PERMITTED TO BE INSTALLED IN A WIDE RANGE OF NATIVE SOILS. THE PIPE EMBEDMENT SHALL BE STABLE AND PLACED IN SUCH A MANNER AS TO EVENLY SUPPORT AND PHYSICALLY SHIELD THE PIPE FROM DAMAGE. ATTENTION SHALL BE GIVEN TO LOCAL PIPE LAYING EXPERIENCE WHICH SHALL INDICATE SOLUTIONS TO PARTICULAR PIPE BEDDING PROBLEMS.
- THE PIPE EMBEDMENT MATERIALS SHALL BE STABLE, SUFFICIENTLY WORKABLE TO BE READILY PLACED UNDER THE SIDES OF THE PIPE TO PROVIDE SATISFACTORY HAUNCHING, AND READILY COMPACTABLE TO ACHIEVE SOIL DENSITIES SPECIFIED BY CONTRACT DOCUMENTS. THE EMBEDMENT SHALL BE EITHER CLASS I, II OR III SOILS, AS DESCRIBED IN BY ASTM D2774.
- INITIAL BACKFILL MATERIALS SHALL BE PLACED IN COMPACTED LAYERS.
- ALL NATIVE AND OTHER MATERIALS IN THE PIPE EMBEDMENT ZONE SHALL BE FREE FROM REFUSE, ORGANIC MATERIAL, COBBLES, BOULDERS, LARGE ROCKS OR STONES, OR FROZEN SOILS.
- THE PARTICLE SIZE OF MATERIAL IN CONTACT WITH THE PIPE SHALL NOT EXCEED THE FOLLOWING: 1/2 IN. FOR PIPE TO 4 IN., 3/4 IN. FOR PIPES 6 TO 8 IN., 1 IN. FOR PIPES 10 TO 16 IN., AND 1 1/2 IN. FOR LARGER PIPES. EACH SOIL LAYER SHALL BE SUFFICIENTLY COMPACTED TO UNIFORMLY DEVELOP LATERAL PASSIVE SOIL FORCES DURING THE BACKFILL OPERATION.
- TO MINIMIZE DEFORMATION OF THINNER-WALLED PRESSURE PIPELINES, SUCH AS USED IN IRRIGATION, THE PIPELINE SHALL BE FIRST FILLED WITH WATER, ALL AIR REMOVED, AND KEPT FULL DURING THE BACKFILL OPERATION.
- WHEN INSTALLING PIPE IN LOCATIONS WHERE RAPID MOVEMENT OF GROUND WATER SHALL RESULT IN MIGRATION OF SOIL FINES INTO, OUT OF, OR BETWEEN LAYERS OF THE

- EMBEDMENT MATERIAL, THE BEDDING AND BACK FILL SHALL BE OF SUCH GRADATION IN PARTICLE SIZE AS TO PRECLUDE THIS POSSIBILITY. SOIL MIGRATION SHALL ALSO BE CONTROLLED BY USING AN APPROPRIATE SOIL FILTER OR A GEOTEXTILE FILTER FABRIC BETWEEN COARSE EMBEDMENT AND FINE SOILS.
- UNCOMPACTED FINAL BACKFILL CAN BE EITHER CLASS I, CLASS II, CLASS III, CLASS IV, OR CLASS V SOIL. IF BACKFILL IS TO BE COMPACTED, DO NOT USE CLASS V SOILS.
- THE FINAL BACKFILL SHALL BE PLACED AND SPREAD IN APPROXIMATELY UNIFORM LAYERS IN SUCH A MANNER AS TO FILL THE TRENCH COMPLETELY SO THAT THERE WILL BE NO UNFILLED SPACES UNDER OR ABOUT ROCKS OR LUMPS OF EARTH IN THE BACKFILL. LARGE ROCKS, STONES, FROZEN CLODS, AND OTHER DEBRIS GREATER THAN 3 IN. (76 MM) IN DIAMETER SHALL BE REMOVED.
- WHEN COMPACTION IS REQUIRED, ROLLING EQUIPMENT OR HEAVY TAMPERS SHALL ONLY BE USED TO COMPACT THE FINAL BACKFILL. PROVIDED THE PIPE IS COVERED BY AT LEAST 18 IN. OF BACKFILL, TRENCHES UNDER PAVEMENTS, SIDEWALKS, OR ROADS SHALL BE BACKFILLED AND COMPACTED TO THE REQUIRED DENSITY SPECIFIED BY CONTRACT DOCUMENTS OR BY THE APPROPRIATE GOVERNMENT JURISDICTION.
- WHERE TRENCH WALLS ARE STABLE OR SUPPORTED, PROVIDE A WIDTH SUFFICIENT, BUT NO GREATER THAN NECESSARY, TO ENSURE WORKING ROOM TO PROPERLY AND SAFELY PLACE AND COMPACT HAUNCHING AND OTHER EMBEDMENT MATERIALS. THE SPACE BETWEEN THE PIPE AND TRENCH WALL MUST BE WIDER THAN THE COMPACTOR EQUIPMENT USED IN THE PIPE ZONE. MINIMUM WIDTH SHALL BE NOT LESS THAN THE GREATER OF EITHER THE PIPE OUTSIDE DIAMETER PLUS 16 IN. (400 MM) OR THE PIPE OUTSIDE DIAMETER TIMES 1.25, PLUS 12 IN. (300 MM).
- CONTRACTOR RESPONSIBLE FOR REVEGETATION OF ALL DISTURBED AREAS THAT ARE OUTSIDE THE LIMITS OF AREAS SPECIFICALLY IDENTIFIED TO RECEIVE VEGETATIVE COVER AT THE COMPLETION OF THE PROJECT. REVEGETATION TO BE COMPLETED VIA SOLID SLAB SOU PER CORRESPONDING SECTIONS OF THE PROJECT SPECIFICATIONS.



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CHEROKEE NATION ENTERTAINMENT  
TAHLEQUAH CASINO  
TAHLEQUAH, OKLAHOMA

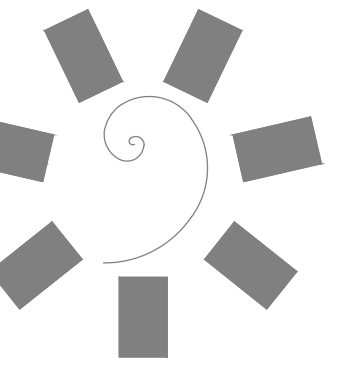
PROJECT PHASE:  
BID PACKAGE 02  
(100% SET)

| REVISIONS |      |             |
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| #         | DATE | DESCRIPTION |
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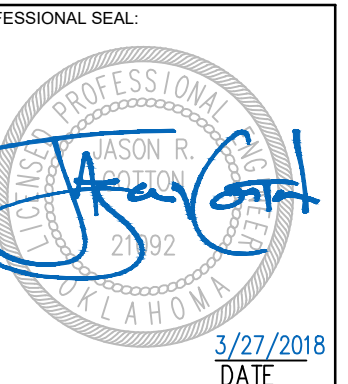
DATE: 03/27/18 JOB NUMBER: 17-06

SHEET NUMBER: C9.15b

CIVIL CONSTRUCTION DETAILS



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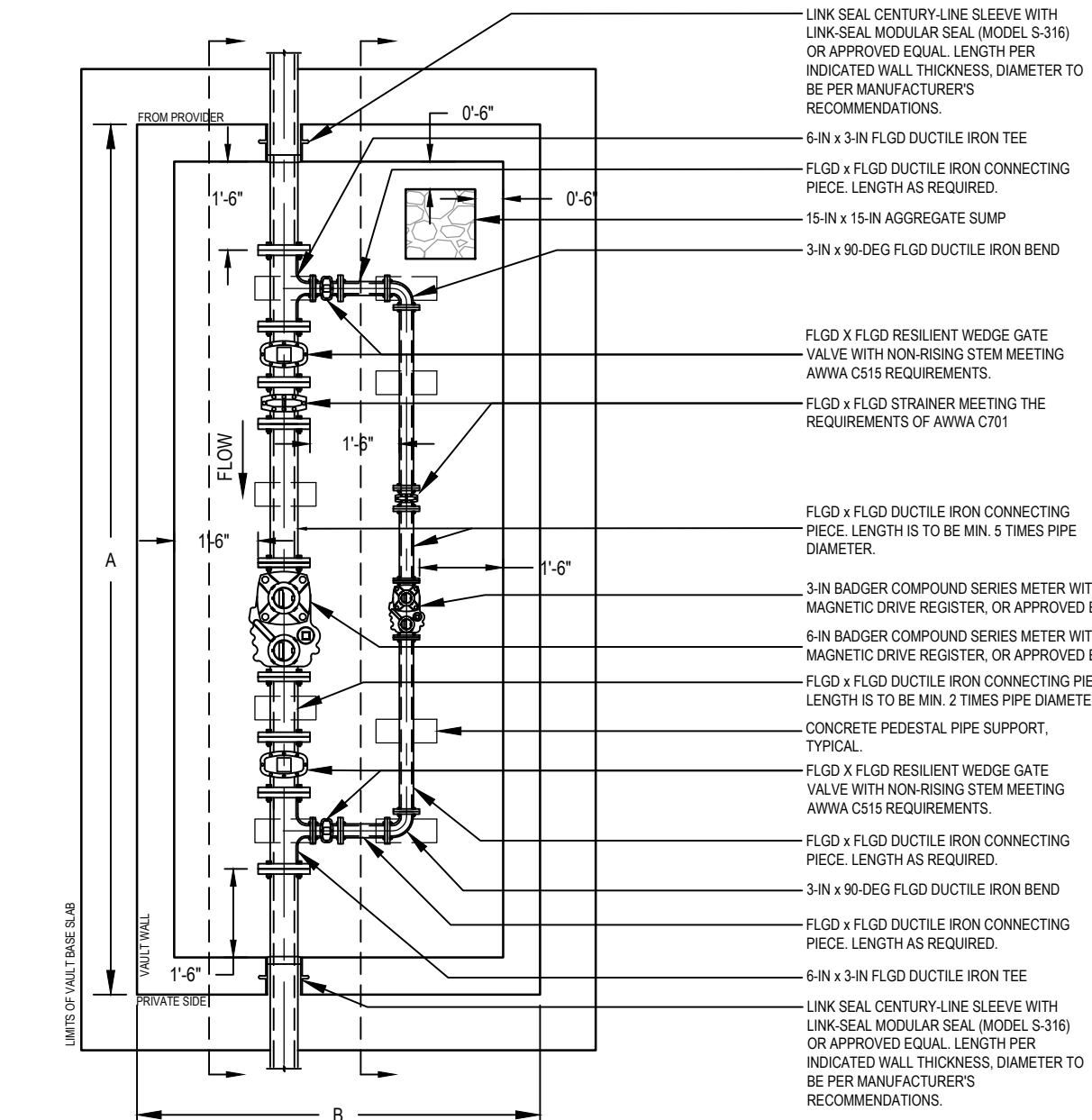
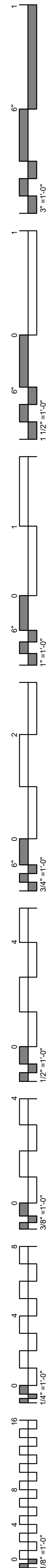
CHEROKEE NATION ENTERTAINMENT  
TAHLEQUAH CASINO  
TAHLEQUAH, OKLAHOMA

PROJECT PHASE:  
**BID PACKAGE 02  
(100% SET)**

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|           |      |             |
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DATE: 03/27/18 JOB NUMBER: 17-06

SHEET NUMBER:  
**C9.20b**  
CIVIL CONSTRUCTION DETAILS

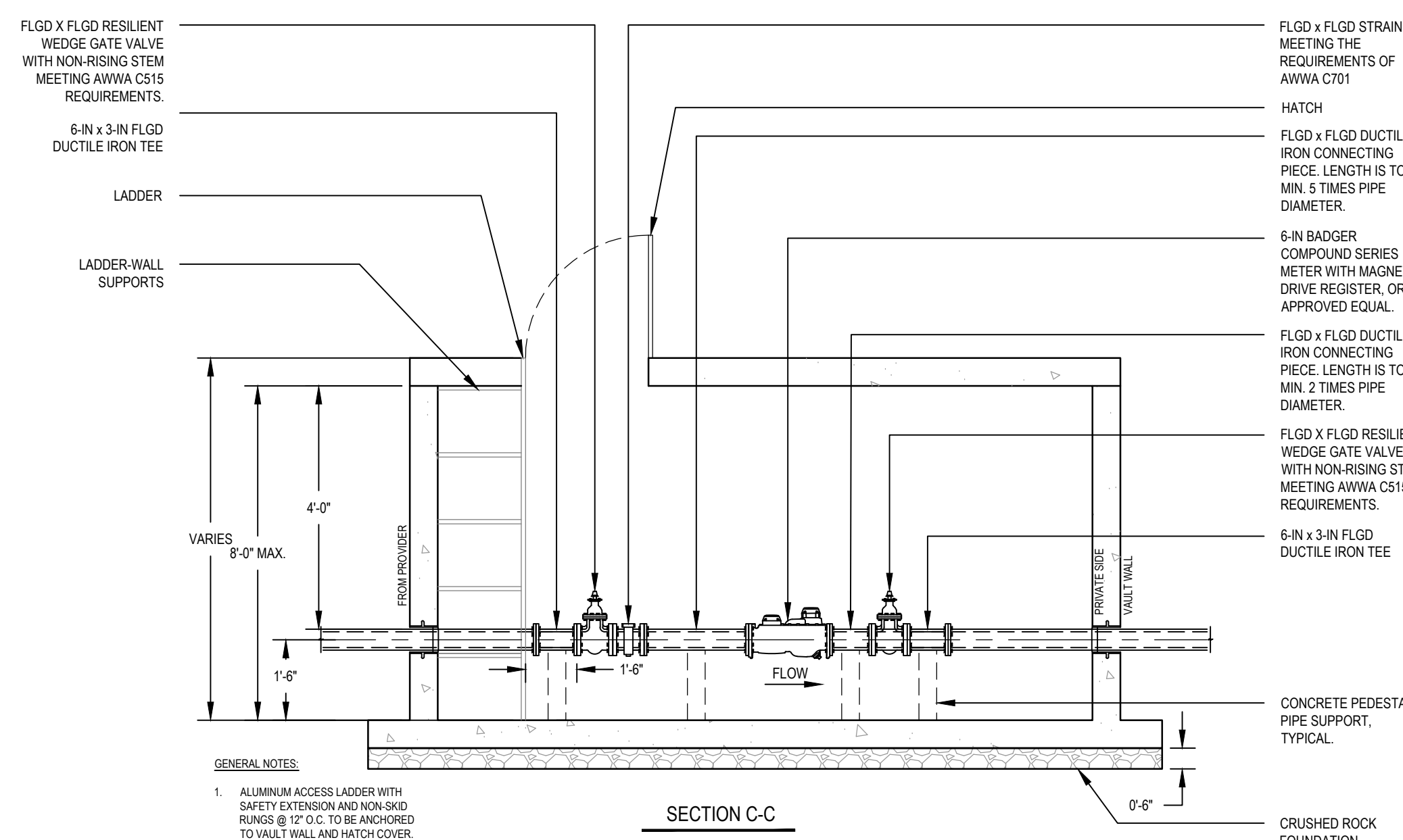


**01 DOMESTIC METER VAULT - EQUIPMENT AND PIPING PLAN**  
SCALE: AS SHOWN

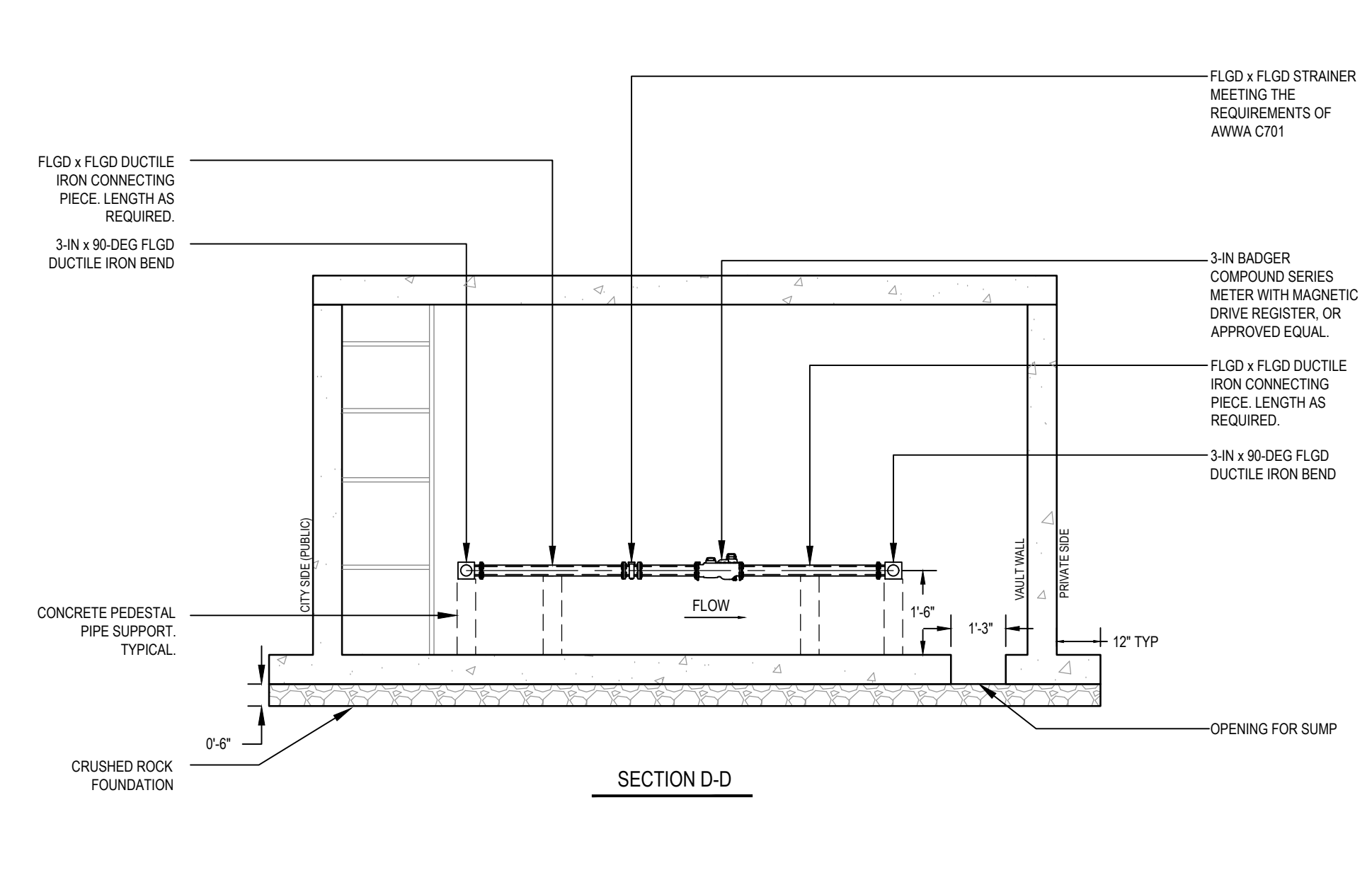
| Meter Size | By-Pass Size | A     | B     |
|------------|--------------|-------|-------|
| 0.3"       | 0.2"         | 12.2" | 7.10" |
| 0.4"       | 0.2"         | 12.8" | 7.10" |
| 0.5"       | 0.2"         | 16.4" | 8.2"  |

**GENERAL NOTES:**

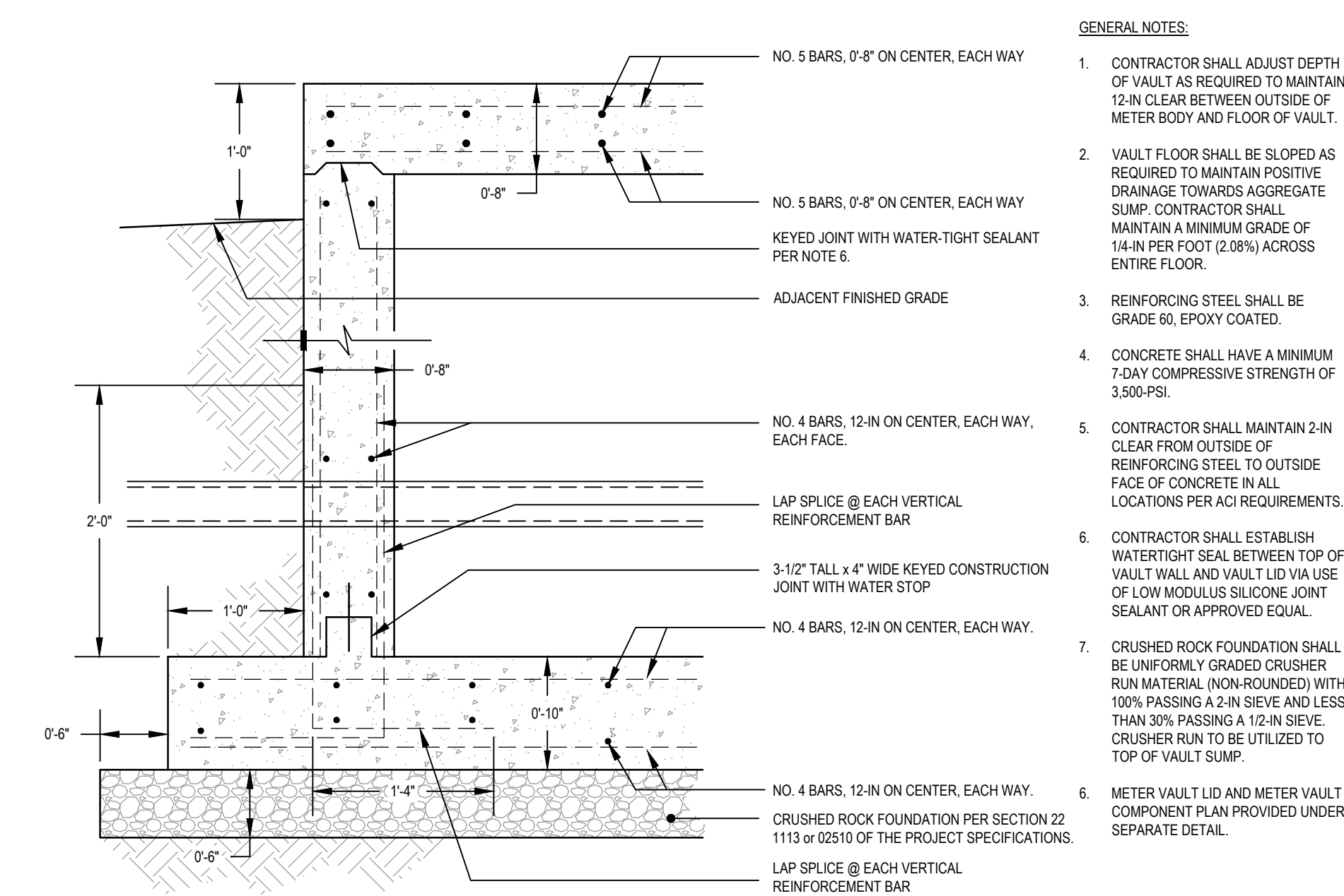
- PRIOR TO COMMENCING VAULT CONSTRUCTION OR COMPONENT PROCUREMENT, CONTRACTOR RESPONSIBLE FOR CONTRACTING WATER SERVICE PROVIDER TO CONFIRM ACCEPTABILITY OF SELECTED COMPONENTS, PROCUREMENT PROCESS, AND ANY REQUIRED IMPACT OR METER FEES.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL FEES AS WELL AS METER PURCHASE UNLESS OTHERWISE INDICATED IN THE CONSTRUCTION DOCUMENTS.
- PROVIDED DETAIL MEETS REQUIREMENTS OF AWWA C701 - STANDARD FOR COLD-WATER METERS - TURBINE TYPE, FOR CUSTOMER SERVICE, CONTRACTOR SHALL CONFIRM INSTALLATION MEETS METER MANUFACTURER REQUIREMENTS PRIOR TO CONSTRUCTION.
- VAULT FLOOR SHALL BE SLOPED AS REQUIRED TO MAINTAIN POSITIVE DRAINAGE TOWARDS AGGREGATE SUMP. CONTRACTOR SHALL MAINTAIN A MINIMUM GRADE OF 1/4-IN PER FOOT (2.08%) ACROSS ENTIRE FLOOR.
- 16-IN WIDE HALLWAY 1.18A TO ALUMINUM FLAT MOUNT ACCESS LADDER WITH 7-IN WALL STANDOFF, OR APPROVED EQUAL, LADDER SHALL BE MOUNTED TO BOTH WALL AND FLOOR PER MANUFACTURER'S RECOMMENDATIONS. WALL LENGTH TO BE AS REQUIRED BY VAULT DEPTH. TOP OF RAIL SHALL TERMINATE WITHIN 3-IN OF BOTTOM OF VAULT LID.
- METER VAULT LID AND METER VAULT SECTION PROVIDED UNDER SEPARATE DETAIL.



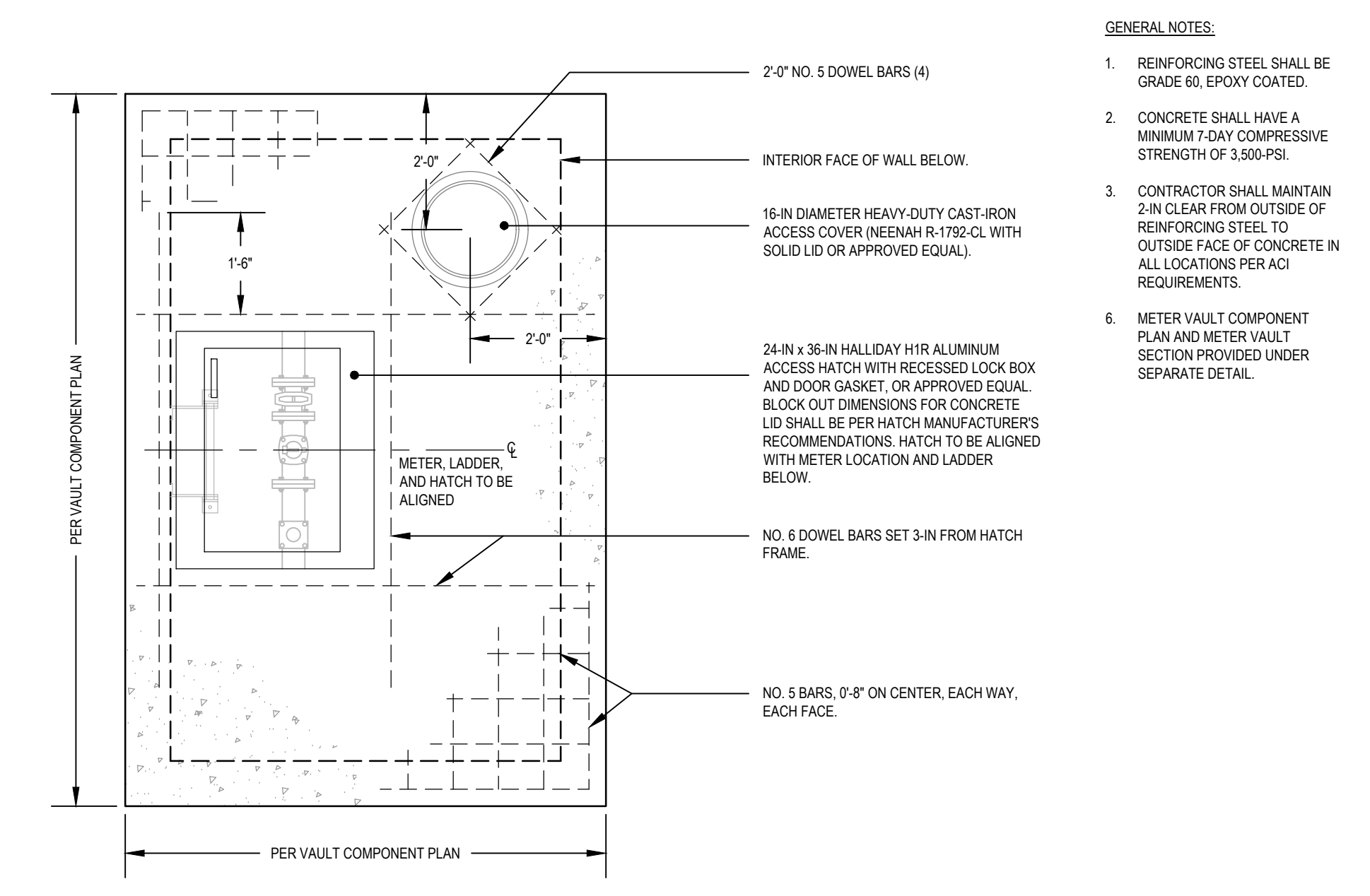
**03 DOMESTIC METER VAULT - SECTION**  
SCALE: AS SHOWN



**02 DOMESTIC METER VAULT LID**  
SCALE: AS SHOWN



**03 DOMESTIC METER VAULT - SECTION**  
SCALE: AS SHOWN



**02 DOMESTIC METER VAULT LID**  
SCALE: AS SHOWN

**GENERAL NOTES:**

- CONTRACTOR SHALL ADJUST DEPTH OF VAULT AS REQUIRED TO MAINTAIN 12-IN CLEAR BETWEEN OUTSIDE OF METER BODY AND FLOOR OF VAULT.
- VAULT FLOOR SHALL BE SLOPED AS REQUIRED TO MAINTAIN POSITIVE DRAINAGE TOWARDS AGGREGATE SUMP. CONTRACTOR SHALL MAINTAIN A MINIMUM GRADE OF 1/4-IN PER FOOT (2.08%) ACROSS ENTIRE FLOOR.
- REINFORCING STEEL SHALL BE GRADE 60, EPOXY COATED.
- CONCRETE SHALL HAVE MINIMUM 7-DAY COMPRESSIVE STRENGTH OF 3,500-PSI.
- CONTRACTOR SHALL MAINTAIN 2-IN CLEAR FROM OUTSIDE OF REINFORCING STEEL TO OUTSIDE FACE OF CONCRETE IN ALL LOCATIONS PER ACI REQUIREMENTS.
- CONTRACTOR SHALL ESTABLISH WATERTIGHT SEAL BETWEEN TOP OF VAULT WALL AND VAULT LID VIA USE OF LOW MODULUS SILICONE JOINT SEALANT OR APPROVED EQUAL.
- CRUSHED ROCK FOUNDATION SHALL BE UNIFORMLY GRADED CRUSHER RUN MATERIAL (NON-ROUNDED) WITH 100% PASSING A 2-IN SIEVE AND LESS THAN 30% PASSING A 1/2-IN SIEVE. CRUSHER RUN TO BE UTILIZED TO TOP OF VAULT SUMP.
- METER VAULT LID AND METER VAULT COMPONENT PLAN PROVIDED UNDER SEPARATE DETAIL.

**GENERAL NOTES:**

- REINFORCING STEEL SHALL BE GRADE 60, EPOXY COATED.
- CONCRETE SHALL HAVE A MINIMUM 7-DAY COMPRESSIVE STRENGTH OF 3,500-PSI.
- CONTRACTOR SHALL MAINTAIN 2-IN CLEAR FROM OUTSIDE OF REINFORCING STEEL TO OUTSIDE FACE OF CONCRETE IN ALL LOCATIONS PER ACI REQUIREMENTS.
- METER VAULT COMPONENT PLAN AND METER VAULT SECTION PROVIDED UNDER SEPARATE DETAIL.