CHEROKEE NATION
REPLACEMENT HOSPITAL

VOLUME 01 OF 11
(CIVIL)

PARKHILL
4101 WIRELESS WAY, SUITE 350
OKLAHOMA CITY, OK 73134
(405) 832-9900
CIVIL ENGINEERING

PALMERTON & PARRISH, INC.
4168 W. KEARNY ST.
SPRINGFIELD, MO 65803
(417) 864-6000
GEOTECHNICAL ENGINEERING

FEC HELIPORTS
5228 RIVER ROAD
CINCINNATI, OH 45233
(877) HELIPAD
HELIPAD DESIGN

HOWARD-FAIRBAIRN SITE DESIGN
3100 NW 149TH ST
OKLAHOMA CITY, OK 73134
(405) 752-8018
LANDSCAPE ARCHITECTURE

HKS
999 18th St, #2255N
DENVER, CO 80202
(303) 293-2903
INTERIOR ARCHITECTURE | INTERIOR DESIGN

FOY CONSULTING & ENGINEERING, LLC
6900 COLLEGE BLVD #600
OVERLAND, KS 66211
(913) 312-0075
STRUCTURAL ENGINEER

HP ENGINEERING, INC.
5504 PINNACLE POINTE DRIVE, SUITE 200
ROGERS, AR 72758
(479) 899-6370
MECHANICAL | ELECTRICAL | PLUMBING

INTERIOR LOGISTICS
1316 E 35TH PLACE, SUITE 100
TULSA, OK 74105
(918) 382-9120
EQUIPMENT | FURNITURE PLANING

MOBLEY FIRE PROTECTION
6242 LLANO AVE.
DALLAS, TX 75214
(817) 614-2361
FIRE PROTECTION | LIFE SAFETY

FDP
2655 VILLA CREEK DR. #233
DALLAS, TX 75234
(972) 245-5300
FOOD SERVICE

ECOWORKS STUDIO
659 AUBURN AVE. NE, SUITE 135
ATLANTA, GA 30312
(404) 480-4499
LEED CONSULTING

CRUX TECHNOLOGY + SECURITY SOLUTIONS
401 SOUTH BOSTON AVE, SUITE 500-15
TULSA, OK 74103
(800) 685-6440
LOW-VOLTAGE | IT | SECURITY

DIRECT 2 COMPLETION
7134 S. YALE AVE #400
TULSA, OK 74136
(918) 457-6905
OWNERS REPRESENTATIVE

FOREMAN MANHATTAN CONSTRUCTION TEAM
5601 S 122nd E AVE
TULSA, OK 74146
(918) 878-3492
CONSTRUCTION MANAGER

James R. Childers Architect, Inc.
45 South 4th Street
Fort Smith, AR 72901
479-783-2480
www.childersarchitect.com

PROFESSIONAL SEAL:
STATE OF OKLAHOMA
JAMES R. CHILDERS
21120
REGISTERED ARCHITECT
10/21/2022

CONSULTANT LOGO:

CLIENT:
TRIBAL SEAL OF THE CHEROKEE NATION
SEPT. 6, 1839

CHEROKEE NATION
REPLACEMENT HOSPITAL
TAHLEQUAH, OKLAHOMA

KEY PLAN:

PROJECT PHASE:
BID PACKAGE 02
(SITE DEMOLITION AND UTILITIES)

REVISIONS

#	DATE	DESCRIPTION
1	08-17-22	ADDENDUM 01
2	10-21-22	BID PACKAGE 02

JOB NUMBER: 21-08.21
DATE: 07-29-2022
SHEET NUMBER: **VOL 01**
SHEET TITLE: COVER SHEET

INDEX OF DRAWINGS - VOLUME 01 - CIVIL

SHEET NUMBER	SHEET NAME	BID PACKAGE 01 - 07-29-2022	ADDENDUM 01 - 08-17-2022	BID PACKAGE 03 - 10-07-2022	BID PACKAGE 02 - 10-21-2022
GENERAL					
VOL 01	COVER SHEET	■			■
G0.01	DRAWING INDEX	■	■	■	■
CIVIL					
C0-101	GENERAL CIVIL NOTES -BP2				■
C0-102	GENERAL CIVIL NOTES - BP1	■			
C1-101	EXISTING CONDITIONS				■
C1-102	EXISTING CONDITIONS				
C1-103	EXISTING CONDITIONS	■			
C1-104	EXISTING CONDITIONS	■			
C1-105	EXISTING CONDITIONS	■			
C1-106	EXISTING CONDITIONS				■
C1-107	EXISTING CONDITIONS				■
C2-101	OVERALL DEMOLITION VIEW				■
C2-102	A1 DEMOLITION PLAN				■
C2-103	A2 DEMOLITION PLAN				■
C2-104	B1 DEMOLITION PLAN				■
C2-105	B2 DEMOLITION PLAN				■
C2-106	C1 DEMOLITION PLAN				■
C2-107	C2 DEMOLITION PLAN				■
C2-108	NP DEMOLITION OVERVIEW	■			
C2-109	NP 1 DEMOLITION PLAN	■			
C2-110	NP2 DEMOLITION PLAN	■			
C2-111	NP3 DEMOLITION PLAN	■			
C2-112	NP4 DEMOLITION PLAN	■			
C2-113	NP5 DEMOLITION PLAN	■			
C2-701	EROSION CONTROL PLAN - HOSPITAL				■
C2-702	NP EROSION CONTROL PLAN	■			
C2-750	EROSION CONTROL DETAILS	■			
C2-751	EROSION CONTROL DETAILS				■
C3-108	NP SITE PLAN OVERVIEW	■	■		
C3-109	NP1 SITE PLAN	■	■		
C3-110	NP2 SITE PLAN	■	■		
C3-111	NP3 SITE PLAN	■	■		
C3-112	NP4 SITE PLAN	■	■		
C3-113	NP5 SITE PLAN	■	■		
C3-501	SITE DETAILS	■			
C3-502	SITE DETAILS	■			
C3-503	CONCRETE PAVING JOINT DETAILS	■			
C4-101	OVERALL UTILITY VIEW				■
C4-102	A1 UTILITIES				■
C4-103	A2 UTILITIES				■
C4-104	B1 UTILITIES				■
C4-105	B2 UTILITIES				■
C4-106	C1 UTILITIES				■
C4-107	C2 UTILITIES				■
C4-801	SITE ELECTRIC AND COMMUNICATION CONDUITS				■
C5-113	NP GRADING OVERVIEW	■			
C5-114	NP1 GRADING PLAN	■			
C5-115	NP2 GRADING PLAN	■			
C5-116	NP3 GRADING PLAN	■			
C5-117	NP4 GRADING PLAN	■			
C5-118	NP5 GRADING PLAN	■			
C5-210	NP COORDINATES AND ELEVATIONS TABLE	■			
C6-101	STORM DRAIN PLAN				■
C6-102	STORM DRAIN PLAN				■
C6-103	ROOF DRAIN PLAN				■
C6-104	FOUNDATION DRAIN PLAN				■
C6-201	NP STORM PLAN & PROFILE	■			
C6-202	NP STORM PLAN & PROFILE	■			
C6-203	STORM DRAIN PROFILES				■
C6-204	STORM DRAIN PROFILES				■
C6-501	STORM DRAIN DETAILS	■			
C6-502	STORM DRAIN DETAILS	■			
C6-503	STORM DRAIN DETAILS	■			
C6-504	STORM DRAIN DETAILS	■			
C6-505	STORM DRAIN DETAILS	■			
C6-506	CICI BOX				■
C6-507	CICI FRAME				■
C6-508	CICI GRATE				■
C6-509	DESIGN 6 AND 7 AREA INLET				■
C6-510	GRATE AND FRAME FOR AREA INLET				■
C6-511	STORM DRAIN DETAILS				■
C6-802	NP EXISTING HYDROLOGY	■			
C6-803	NP DEVELOPMENT HYDROLOGY	■			
C7-101	OVERALL WATER PLAN				■
C7-201	WATER 1 PLAN AND PROFILE				■
C7-202	WATER 1 PLAN AND PROFILE				■
C7-203	WATER 1 PLAN AND PROFILE				■
C7-204	WATER 2 PLAN AND PROFILE				■
C7-205	WATER 2 PLAN AND PROFILE				■
C7-206	WATER 2 PLAN AND PROFILE				■
C7-207	WATER 2 PLAN AND PROFILE				■
C7-208	WATER 3 PLAN AND PROFILE				■
C7-209	WATER 3 PLAN AND PROFILE				■
C7-210	WATER 4 PLAN AND PROFILE				■
C7-211	WATER 5 AND 14 PLAN AND PROFILE				■
C7-212	WATER 6, 9, AND 10 PLAN AND PROFILE				■
C7-213	WATER 7, 8, AND 13 PLAN AND PROFILE				■
C7-214	WATER 11 AND 12 PLAN AND PROFILE				■
C7-501	TPWA WATER DETAILS				■
C7-502	WATER DETAILS				■
C8-201	FORCE MAIN PLAN & PROFILE	■			
C8-501	FORCE MAIN DETAILS	■			
C9-201	DOWNING DRIVEWAY PLAN AND PROFILE	■		■	
C9-501	DOWNING DRIVEWAY DETAILS	■			

Grand total: 94

INDEX OF DRAWINGS - VOLUME 07 - ELECTRICAL

SHEET NUMBER	SHEET NAME	BID PACKAGE 01 - 07-29-2022	ADDENDUM 01 - 08-17-2022	BID PACKAGE 03 - 10-07-2022	BID PACKAGE 02 - 10-21-2022
GENERAL					
VOL 07	COVER SHEET	■			
G0.01	DRAWING INDEX	■	■	■	■
ELECTRICAL					
ENL.00	ELECTRICAL LEGEND	■			
ENL.01	ELECTRICAL SITE PLAN - NORTH LOT	■			

Grand total: 4

INDEX OF DRAWINGS - VOLUME 09 -TECHNOLOGY

SHEET NUMBER	SHEET NAME	BID PACKAGE 01 - 07-29-2022	ADDENDUM 01 - 08-17-2022	BID PACKAGE 03 - 10-07-2022	BID PACKAGE 02 - 10-21-2022
GENERAL					
VOL 09	COVER SHEET	■			
G0.01	DRAWING INDEX	■	■	■	■
TECHNOLOGY					
TNS1.02	NETWORK SITE PLAN - NORTH PARKING & ACCESS	■	■		

Grand total: 3

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PROFESSIONAL SEAL:

STATE OF OKLAHOMA
J. BRECK CHILDERS
9120
10/21/2022
REGISTERED ARCHITECT

CONSULTANT LOGO:

CLIENT:

SEAL OF THE CHEROKEE NATION
SEPT. 6, 1839

CHEROKEE NATION REPLACEMENT HOSPITAL

TAHLEQUAH, OKLAHOMA

KEY PLAN:

PROJECT PHASE:

BID PACKAGE 02

(SITE DEMOLITION AND UTILITIES)

REVISIONS

#	DATE	DESCRIPTION
1	08-17-22	ADDENDUM 01
2	10-07-22	BID PACKAGE 03
3	10-21-22	BID PACKAGE 02

JOB NUMBER: 21-08.21

DATE: 07-29-2022

SHEET NUMBER:

G0.01

SHEET TITLE:

DRAWING INDEX

1" = 1'-0"
3/4" = 1'-0"
1/2" = 1'-0"
3/8" = 1'-0"
1/4" = 1'-0"
1/8" = 1'-0"

SITE WORK CONSTRUCTION DOCUMENTS FOR

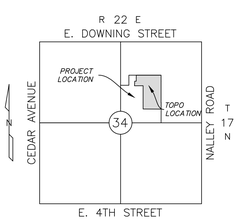
CHEROKEE NATION - W.W. HASTINGS REPLACEMENT HOSPITAL

BID PACKAGE 2 - DEMOLITION AND SITE UTILITIES

BID PACKAGE 2 GENERAL NOTES

1. REFER TO SHEET C0-102 BID PACKAGE 1 "GENERAL CIVIL NOTES" FOR THE GENERAL CIVIL SITE WORK NOTES THAT APPLY TO ALL CIVIL SITE WORK CONSTRUCTION.
2. REFER TO BID PACKAGE 1 FOR UTILITIES LOCATED IN THE NORTH PARKING LOT, AND FOR GAS SUPPLY FROM NOPFA AND FIBER FROM COX.
3. SANITARY SEWER UTILITIES WILL BE ISSUED IN A FUTURE BID PACKAGE.
4. TRANSFORMERS, LIGHT POLES, AND ELECTRIC VEHICLE CHARGING STATIONS ARE NOT INCLUDED IN BID PACKAGE 2. THESE WILL BE ISSUED IN A FUTURE BID PACKAGE.
5. OVERHEAD POWER FROM THE SUBSTATION TO THE MECHANCAL YARD IS NOT INCLUDED IN BID PACKAGE 2. THE DESIGN AND COORDINATION WTIH OG&E IS NOT COMPLETE.
6. REDUNDANT UNDERGROUND AND OVERHEAD FIBER OPTIC COMMUNICATIONS BETWEEN THE CLINIC AND THE HOSPITAL ARE REQUESTED BY OWNER. BID PACKAGE 2 PROVIDES THE UNDERGROUND. THE OVERHEAD FIBER OPTIC WILL BE WITHIN THE PEDESTRIAN BRIDGE AND WILL BE PART OF A FUTURE BID PACKAGE.
7. HYDRONIC PIPES, FIRE SPRINKLER SUPPLY, MEDICAL GAS, OXYGEN, VACUUM, AND COMMUNICATIONS BETWEEN THE HOSPITAL AND CENTRAL ENERGY PLANT WILL BE WITHIN A UTILITY BRIDGE BETWEEN THE TWO BUILDINGS. THESE UTILITIES AND UTILITY BRIDGE WILL BE PART OF FUTURE BID PACKAGE(S).
8. POWER, DATA, AND WATER ARE PROVIDED AT THE AMBULANCE CHARGING STATIONS.

LOCATION MAP



LOCATION MAP

HARDSCAPE / LANDSCAPE PATTERNS

- CONCRETE SIDEWALKS
- LIGHT DUTY ASPHALT PAVING
- HEAVY DUTY ASPHALT PAVING
- LIGHT DUTY CONCRETE PAVING
- HEAVY DUTY CONCRETE PAVING
- REINFORCED HEAVY DUTY CONCRETE PAVING
- SODDING / SEEDING / VEGETATIVE COVER

SYMBOL LEGEND

- AC — AIR CONDITIONER UNIT
- FIRE HYDRANT
- GM — GAS METER
- GAS VALVE
- GAS VENT
- TRA — GROUND TRANSFORMER
- GUARD POST
- LIGHT POLE
- D — STORM DRAIN MANHOLE
- S — SANITARY SEWER MANHOLE
- PROPERTY CORNER FOUND
- PROPERTY CORNER SET
- CO — SANITARY SEWER CLEANOUT
- COMMERCIAL SIGN
- SIGN
- SPRINKLER HEAD
- SPRINKLER VALVE
- T — TELEPHONE RISER
- TRAFFIC/ELECTRIC PULL BOX
- WATER METER
- WV — WATER VALVE BOX
- TC=1121.63 — TOP OF CURB SPOT ELEVATION
- G=1121.13 — GUTTER SPOT ELEVATION
- X 1123.5 — SPOT ELEVATION

LINE LEGEND

- BARBED WIRE FENCE
- CHAINLINK FENCE
- PIPERAIL FENCE
- STOCKADE FENCE
- SECURITY FENCE
- ELECTRIC UNDERGROUND
- OVERHEAD ELECTRIC
- GAS LINE
- SANITARY SEWER
- STORM DRAIN PIPE (SURVEYED)
- STORM DRAIN CENTERLINE
- WATER
- NONPOTABLE WATER
- CURB AND GUTTER
- SURFACE DRAINAGE FLOWLINE
- FIBER OPTIC
- TELEPHONE (AERIAL)
- TELEPHONE (BURIED)
- TELEVISION (AERIAL)
- TELEVISION (BURIED)
- CENTERLINE
- EASEMENTS
- PROPERTY LINE
- RIGHT OF WAY
- EXISTING BUILDINGS
- BUILDING SETBACK
- EX 1 FT CONTOUR
- EX 5 FT CONTOUR
- FG 1 FT CONTOUR
- FG 5 FT CONTOUR
- PROJECT BOUNDARY
- DEMOLITION LINE

EXISTING LINE LEGEND

- COMMUNICATIONS FIBER
- ELECTRIC OVERHEAD
- ELECTRIC UNDERGROUND
- NATURAL GAS
- OXYGEN GAS
- SEWER
- STORM SEWER
- WATER
- FOUNDATION DRAIN

ABBREVIATIONS

@	AT
AFF	ABOVE FINISHED FLOOR
AGRD	ADJACENT GRADE
AHJ	AUTHORITY HAVING JURISDICTION
APPROX	APPROXIMATE
ARCH	ARCHITECTURAL
ASS'Y	ASSEMBLY
BFF	BELOW FINISHED FLOOR
BLDG	BUILDING
CIP	CAST IN PLACE
CL	CENTERLINE
CM	CONSTRUCTION MANAGER
CNTR	CENTER
CONC	CONCRETE
CONST	CONSTRUCT
CONT	CONTINUOUS
CONTR	CONTRACTOR
COORD	COORDINATE
DIA	DIAMETER
DS	DOWN SPOUT
DTL	DETAIL
DWG(S)	DRAWINGS
E	EAST
E	EASTING
EG	EXISTING GRADE
EGCL	EXISTING GRADE CENTER LINE
ELEC	ELECTRICAL
ELEV	ELEVATION
EJ	EXPANSION JOINT
EQ	EQUAL
ETR	EXISTING TO REMAIN
EX	EXISTING
EXHD	EXTRA HEAVY DUTY
FD	FLOOR DRAIN
FF	FINISHED FLOOR
FG	FINISHED GRADE
FGCL	FINISHED GRADE CENTER LINE
FL	FLOWLINE
FOC	FACE OF CONCRETE
FT	FOOT/FEET
FTNG	FOOTING
FV	FIELD VERIFY
GA	GAUGE
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GU	GUTTER
HD	HEAVY DUTY
HORIZ	HORIZONTAL
HT	HEIGHT
IN	INCH
INFO	INFORMATION
ID	INSIDE DIAMETER
IFGC	INTERNATIONAL FUEL GAS CODE
IPC	INTERNATIONAL PLUMBING CODE
JT	JOINT
LD	LIGHT DUTY
LF	LINEAL FEET
MH	MANHOLE
MAX	MAXIMUM
MECH	MECHANICAL
MIN	MINIMUM
MISC	MISCELLANEOUS
N/A	NOT APPLICABLE
OD	OUTSIDE DIAMETER
MTCH	MATCH
MEP	MECHANICAL / ELECTRICAL / PLUMBING
N	NORTH
N	NORTHING
NO.	NUMBER
OC	ON CENTER
ODEQ	OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
ODOT	OKLAHOMA DEPARTMENT OF TRANSPORTATION
OWRB	OKLAHOMA WATER RESOURCES BOARD
OZ	OUNCE
PC	PORTLAND CEMENT
PC	PRE-CAST
PC	POINT OF CURVATURE
PLBG	PLUMBING
POC	POINT OF CONNECTION
PRC	POINT OF REVERSE CURVATURE
PT	POINT OF TANGENCY
PVI	POINT OF VERTICAL INTERSECTION
QTY	QUANTITY
R	RADIUS
RE:	REFERENCE
REINF	REINFORCED
REQ'D	REQUIRED
REV	REVISION
S	SOUTH
SAN	SANITARY
SCHED	SCHEDULE
SECT	SECTION
SF	SQUARE FEET
SHT	SHEET
SPEC	SPECIFICATION
SQ	SQUARE
STRUC	STRUCTURAL
STD	STANDARD
SW	SIDEWALK
SY	SQUARE YARD
TC	TOP OF CURB
TEMP	TEMPORARY
TOC	TOP OF CONCRETE
TOE	TOE OF SLOPE
TOP	TOP OF SLOPE
TOW	TOE OF WALL
TPW	TOP OF WALL
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VERT	VERTICAL
W	WEST
W/	WITH
WT	WEIGHT

BID PACKAGE 2 SHEET LIST

Sheet Number	Sheet Title
C0-101	General Civil Notes – BP2
C1-101	Existing Conditions
C1-102	Existing Conditions
C1-106	Existing Conditions
C1-107	Existing Conditions
C2-101	Overall Demolition View
C2-102	A1 Demolition Plan
C2-103	A2 Demolition Plan
C2-104	B1 Demolition Plan
C2-105	B2 Demolition Plan
C2-106	C1 Demolition Plan
C2-107	C2 Demolition Plan
C2-701	Erosion Control Plan – Hospital
C2-751	Erosion Control Details
C4-101	Overall Utility View
C4-102	A1 Utilities
C4-103	A2 Utilities
C4-104	B1 Utilities
C4-105	B2 Utilities
C4-106	C1 Utilities
C4-107	C2 Utilities
C4-801	Site Electric and Communication Conduits
C6-101	Storm Drain Plan
C6-102	Storm Drain Plan
C6-103	Roof Drain Plan
C6-104	Foundation Drain Plan
C6-203	Storm Drain Profiles
C6-204	Storm Drain Profiles
C6-506	CICI Box
C6-507	CICI Frame
C6-508	CICI Grate
C6-509	Design 6 and 7 Area Inlet
C6-510	Grate and Frame for Area Inlet
C6-511	Storm Drain Details
C7-101	Overall Water Plan
C7-201	Water 1 Plan and Profile
C7-202	Water 1 Plan and Profile
C7-203	Water 1 Plan and Profile
C7-204	Water 2 Plan and Profile
C7-205	Water 2 Plan and Profile
C7-206	Water 2 Plan and Profile
C7-207	Water 2 Plan and Profile
C7-208	Water 3 Plan and Profile
C7-209	Water 3 Plan and Profile
C7-210	Water 4 Plan and Profile
C7-211	Water 5 and 14 Plan and Profile
C7-212	Water 6, 9, and 10 Plan and Profile
C7-213	Water 7, 8, and 13 Plan and Profile
C7-214	Water 11 and 12 Plan and Profile
C7-501	TPWA Water Details
C7-502	Water Details

BEFORE YOU DIG
CALL OKIE
(800) 522-6543

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COREY W. LIPPS
21291
10/21/22

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www.parkhill.com
Oklahoma CA #4935, Expires 6/30/2023

CLIENT:

CHEROKEE NATION
W.W. HASTINGS REPLACEMENT HOSPITAL
TAHLEQUAH, OKLAHOMA

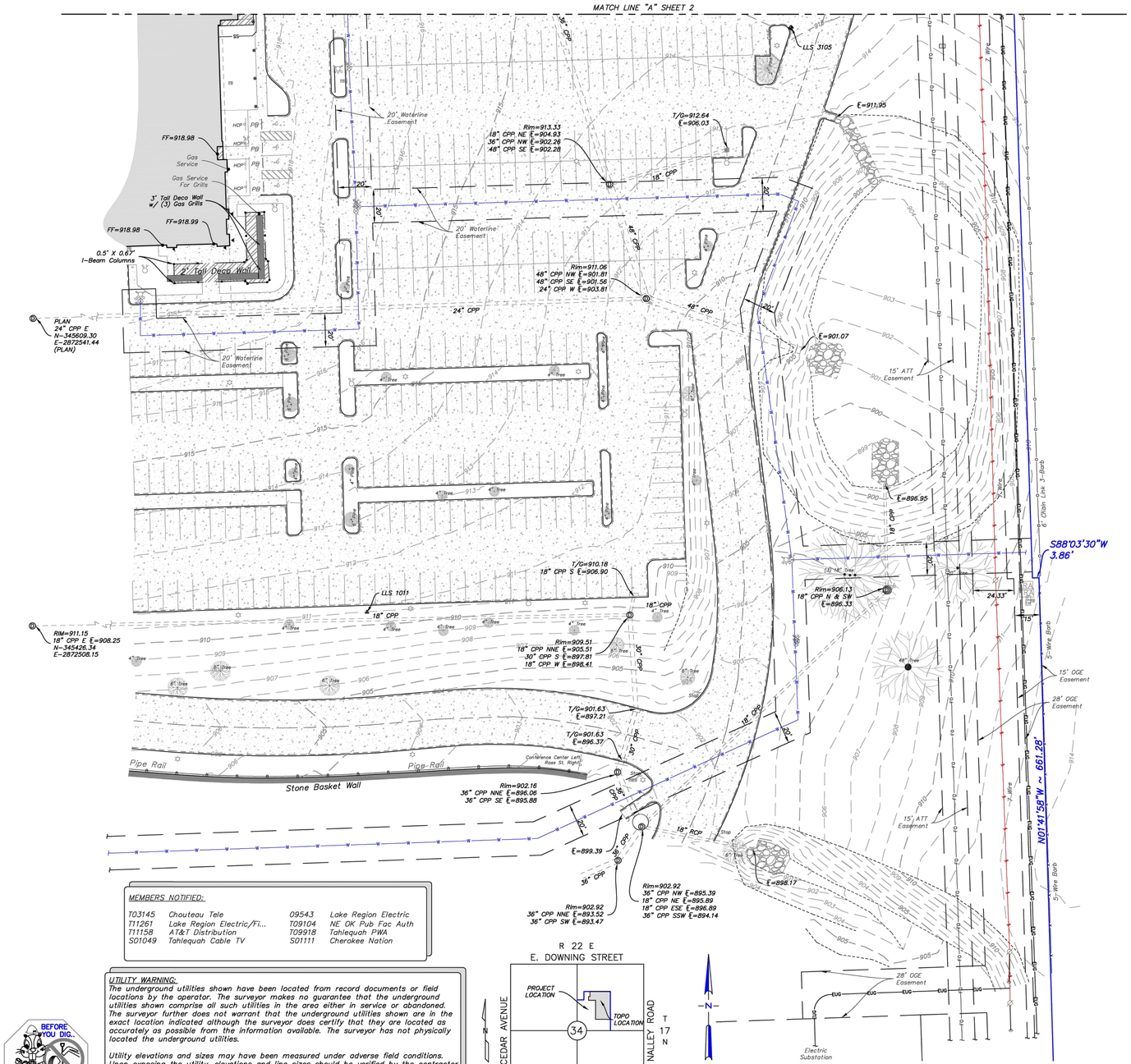
KEY PLAN:

PROJECT PHASE:
BID PACKAGE 02
(SITE DEMOLITION AND UTILITIES)

REVISIONS

JOB NUMBER: 21-08.21
DATE: 10-21-2022
SHEET NUMBER: C0-101
SHEET TITLE: GENERAL CIVIL NOTES - BP2

10/21/2022 A:\2021\5123.21\03_DSGN\01_DWG\05D_CIVIL\C0-TITL-BP2-5123.DWG



TOPOGRAPHIC SURVEY FOR

HASTINGS HOSPITAL
CITY OF TAHLEQUAH, CHEROKEE COUNTY, OKLAHOMA

TOPOGRAPHIC LEGEND

- AIR CONDITIONER UNIT
- GROUND TRANSFORMER
- LIGHT POLE
- POWER POLE
- DOWN GUY
- GROUND LIGHT
- ELECTRIC METER
- ELECTRIC VAULT
- ELECTRIC RISER
- TELEPHONE RISER
- GAS METER
- SPRINKLER HEAD
- SPRINKLER VALVE
- FIRE HYDRANT
- FIRE DEPARTMENT CONNECTION
- WATER METER
- WATER VALVE BOX
- SANITARY SEWER MANHOLE
- SANITARY SEWER CLEANOUT
- STORM DRAIN MANHOLE
- WATER VAULT ACCESS
- SIGN
- UTILITY PULL BOX
- BENCHMARK
- BARBED WIRE FENCE
- CHAINLINK FENCE
- PIPERAIL FENCE
- ELECTRIC UNDERGROUND LINE
- OVERHEAD ELECTRIC LINE
- GAS LINE
- SANITARY SEWER LINE
- SANITARY SEWER FORCE MAIN
- STORM DRAIN LINE
- UNDERGROUND FIBER OPTIC LINE
- WATER LINE
- WATER LINE (FIRE LINE)
- GROUND SURFACE CONTOUR
- CURB AND GUTTER
- SURFACE DRAINAGE FLOWLINE
- TREE DRIP LINE
- SHRUB LINE
- CONCRETE
- ASPHALT
- GRAVEL
- FF FINISHED FLOOR
- PB PARKING BUMPER
- ℄ FLOW LINE ELEVATION

SURVEY CONTROL

ON SITE SURVEY CONTROL

POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
LLS 12	344840.118	2872712.125	892.08	SET #4 BAR W CAP LEMKE CONTROL
LLS 3103	346217.676	2873115.356	921.09	CUT "X" ON GUTTER
LLS 3104	346035.837	2873105.445	919.07	CUT "X" ON GUTTER
LLS 3105	345784.347	2873050.956	915.15	CUT "X" ON GUTTER
LLS 3106	346396.032	2872633.617	924.53	SET #4 BAR W CAP LEMKE CONTROL
LLS 5534	345941.027	2873180.316	923.70	SET #4 BAR W CAP LEMKE CONTROL
LLS 1010	345436.210	2872798.389	911.06	SET #4 BAR W CAP LEMKE CONTROL
LLS 1011	346330.140	2872808.223	924.99	SET #4 BAR W CAP LEMKE CONTROL
HORIZONTAL DATUM: OKLAHOMA STATE PLANE COORDINATES NAD83 NORTH ZONE 3501				
VERTICAL DATUM: NAVD88				

SURVEYOR'S NOTES:

1. This survey was prepared without the benefit of a Title Commitment, Title Opinion, or Abstract as none were provided to the surveyor. Although a due diligence search for easements and items affecting the property was performed, no easements were supplied by the client and there may be items that affect the subject property that are not shown hereon.
2. Site is a part of the Northeast Quarter of Section 34, Township 17 North, Range 22 East, Cherokee County, State of Oklahoma.
3. Basis of Bearings is Grid, Oklahoma State Plane Coordinate System (NAD83) North Zone (3501).
4. Utilities were located using visible evidence, atlas maps (where available) and provided construction plans. There were no markings from the OKIE–811 One Call ticket and all underground lines shown hereon are per the atlas and plans provided. There may be underground utilities that are not shown hereon. CALL 811 BEFORE DIGGING!
5. All points were located with RTK Observations in U.S. survey feet unless an assumed coordinate system was used and noted hereon. All field measurements and angles applied to control points were made with a Leica GS–15 and a Leica TS–15 Robotic Total Station.
6. All elevations of control points are based on initial elevation of "LS 12" and the datum used is NAVD88. All elevations of control points are determined by and Sokkia Bar–code Reading Automatic Level or Robotic Total Station to practice accuracy standards unless otherwise noted.
7. This survey was performed to meet the Specifications for Topographic and Planimetric Mapping contained in the Oklahoma Minimum Standards for the Practice of Land Surveying as adopted by the Oklahoma State Board of Licensure for Professional Engineers and Land Surveyors unless a more stringent level of accuracy was requested. The original data was obtained between 10–15–2021 and 10–26–2021.

TOPOGRAPHIC CERTIFICATION:

I, Charles D. Cahill, Professional Land Surveyor No. 1470 in and for the State of Oklahoma, do hereby certify that I or those under my direct supervision have performed a careful topographic survey of the property as shown by the annexed plat, and that this ground survey was performed at the percent confidence level to meet Federal Geographic Data Committee Standards. This survey was performed to meet the Specifications for Topographic and Planimetric Mapping contained in the Oklahoma Minimum Standards for the Practice of Land Surveying as adopted by the Oklahoma State Board of Licensure for Professional Engineers and Land Surveyors.

LICENSED PROFESSIONAL LAND SURVEYOR Charles D Cahill 1470 OKLAHOMA

Surveyor's signature is not required, the plan is a copy and should be assumed to contain unauthorized alterations. The certification contained on this document shall not apply to any

DATED: 11/05/2021

CHARLES D. CAHILL, P.L.S. NO. 1470

DATE OF LAST SURVEY: 10/26/2021

SURVEY INFORMATION SHOWN ON THE DRAWINGS WERE PROVIDED BY LEMKE LAND SURVEYING, 3226 BART CONNER DRIVE, NORMAN, OK, 73072 PHONE (405) 366–8541, CA #2054. THE OFFICIAL RECORD OF THIS TOPOGRAPHIC SURVEY IS LOCATED AT THE OFFICE OF LEMKE LAND SURVEYING.

LEMKE LAND SURVEYING

LEMKE LAND SURVEYING, INC.
Name Survey Plat, Etc.
CA No. 2054 Exp. 6/30/2023
PH.(918)695-4858 FAX(918)695-4768
OK # 4875 TX. 10176/10023
http://www.lemke-la.com

Mark	Description	Date	Appr.

Surveyed By: JL / ER
Drawn By: RLR
Approved By: CDC
Date: 11/05/2021
Scale: 1" = 30'
Project No: 1512321.00

PROJECT:
TOPOGRAPHIC DESIGN SURVEY
PART OF SECTION 34 T–17–N R–22–E
TAHLEQUAH, CHEROKEE COUNTY, OKLAHOMA
Project Location:
JAMES R. CHILDERS, ARCHITECT, INC.
45 SOUTH 4TH STREET FORT SMITH, ARKANSAS 72901
Client:

Sheet Number 1

Sheet 1 of 2

James R. Childers Architect, Inc.
45 South 4th Street
Fort Smith, AR 72901
479-783-2480
www.childersarchitect.com

PROFESSIONAL SEAL:

CONSULTANT LOGO:

Parkhill
14101 Wireless Way, Suite 350
Oklahoma City, OK 73134
405-832-9900
www.parkhill.com
Oklahoma CA #4935, Expires 6/30/2023

CLIENT:

CHEROKEE NATION
W.W. HASTINGS REPLACEMENT HOSPITAL
TAHLEQUAH, OKLAHOMA

KEY PLAN:

PROJECT PHASE:
BID PACKAGE 02
(SITE DEMOLITION AND UTILITIES)

REVISIONS:

JOB NUMBER: 21-08.21
DATE: 10-21-2022
SHEET NUMBER: C1-101
SHEET TITLE: EXISTING CONDITIONS

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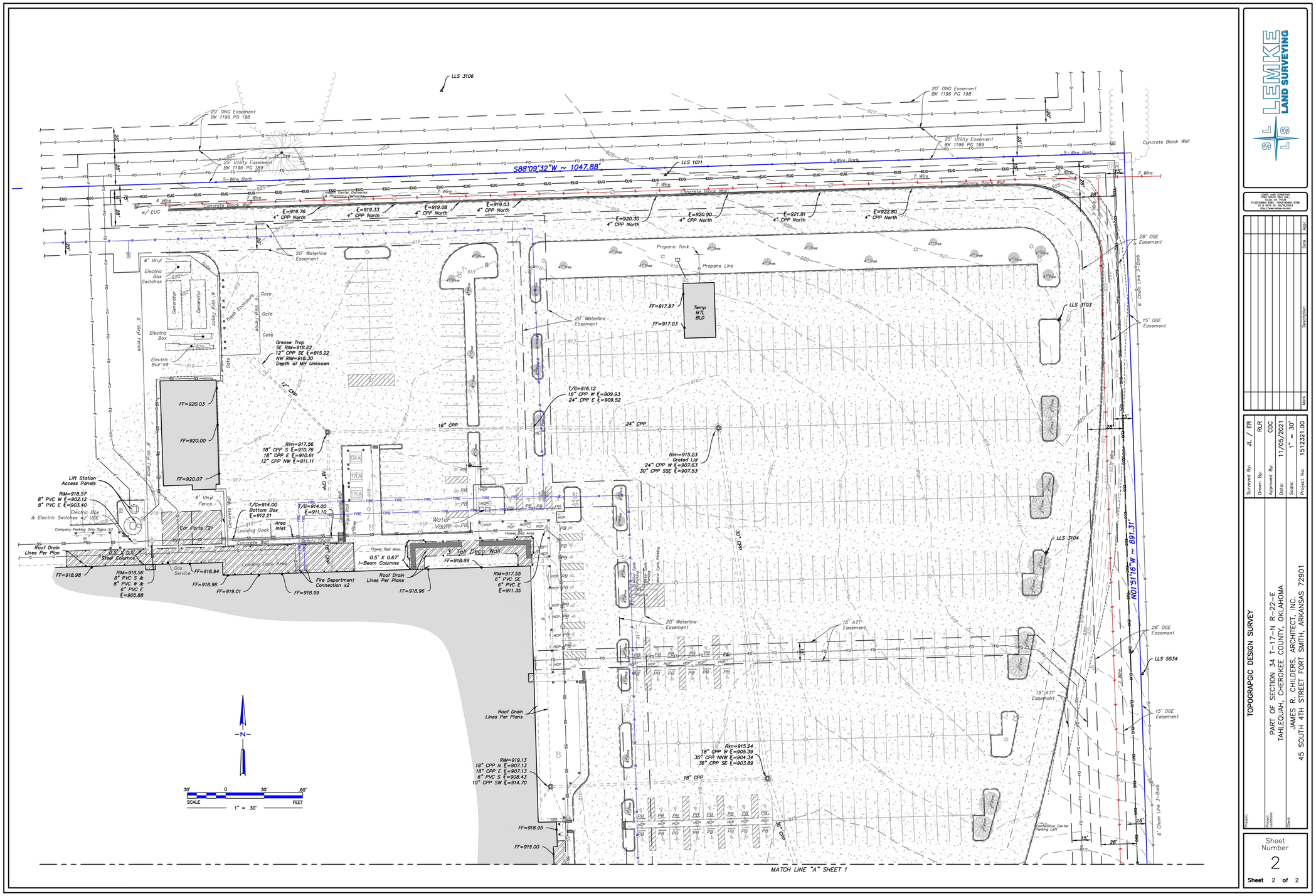
10/21/2022 A:\2021\5123\21\03_DSGN\01_DWG\050_CIVIL\C1-SRVY-5123.DWG



SURVEY INFORMATION SHOWN ON THE DRAWINGS WERE PROVIDED BY LEMKE LAND SURVEYING, 3226 BART CONNER DRIVE, NORMAN, OK, 73072 PHONE (405) 366-8541, CA #2054. THE OFFICIAL RECORD OF THIS TOPOGRAPHIC SURVEY IS LOCATED AT THE OFFICE OF LEMKE LAND SURVEYING.

G:\Projects\01513231.00 Cherokee Hospital Tonja\Final\Civil\01513231.00_CHEROKEE HOSPITAL_CS20219.dwg 11/5/2021 11:57:25 AM

10/21/2022 A:\2021\5123.21\03_DSGN\01_DWG\050_CIVIL\C1-SRVY-5123.DWG

SL LEMKE LAND SURVEYING

LEMKE LAND SURVEYING
3226 BART CONNER DRIVE
NORMAN, OK 73072
PH:(405)366-8541 FAX:(405)360-9788
CA # 2054 EXPIRES: 06/30/2023
http://www.lemke-la.com

No.	Description	Date	Appr.

Surveyed By:	JL / ER
Drawn By:	RLR
Approved By:	CDC
Date:	11/05/2021
Scale:	1" = 30'
Project No:	1512321.00

TOPOGRAPHIC DESIGN SURVEY

PART OF SECTION 34 T-17-N R-22-E
TAHLEQUAH, CHEROKEE COUNTY, OKLAHOMA

JAMES R. CHILDERS, ARCHITECT, INC.
45 SOUTH 4TH STREET FORT SMITH, ARKANSAS 72901

Project:
Owner's Location:
Client:

Sheet Number 2

Sheet 2 of 2

James R. Childers Architect, Inc.
45 South 4th Street
Fort Smith, AR 72901
479-783-2480
www.childersarchitect.com

PROFESSIONAL SEAL:

CONSULTANT LOGO:

Parkhill
14101 Wireless Way, Suite 350
Oklahoma City, OK 73134
405-832-9900
www.parkhill.com
Oklahoma CA #4935, Expires 6/30/2023

CLIENT:

SEAL OF THE CHEROKEE NATION SEPT. 6, 1839

CHEROKEE NATION
W.W. HASTINGS REPLACEMENT HOSPITAL
TAHLEQUAH, OKLAHOMA

KEY PLAN:

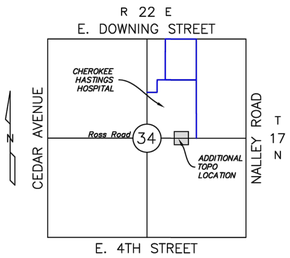
PROJECT PHASE:
BID PACKAGE 02
(SITE DEMOLITION AND UTILITIES)

REVISIONS

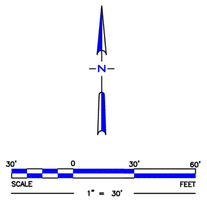
JOB NUMBER:	21-08.21
DATE:	10-21-2022
SHEET NUMBER:	C1-102
SHEET TITLE:	EXISTING CONDITIONS

ADDITIONAL TOPOGRAPHIC SURVEY FOR WATERLINE IMPROVEMENTS

HASTINGS HOSPITAL
CITY OF TAHLEQUAH,
CHEROKEE COUNTY, OKLAHOMA



LOCATION MAP



SURVEY CONTROL

ON SITE SURVEY CONTROL

POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
LLS 12	344840.118	2872712.125	892.08	SET #4 BAR W CAP LEMKE CONTROL
LLS 3103	346217.676	2873115.356	921.09	CUT "X" ON GUTTER
LLS 3104	346035.837	2873105.445	919.07	CUT "X" ON GUTTER
LLS 3105	345784.347	2873050.956	915.15	CUT "X" ON GUTTER
LLS 3106	346396.032	2872633.617	924.53	SET #4 BAR W CAP LEMKE CONTROL
LLS 5534	345941.027	2873180.316	923.70	SET #4 BAR W CAP LEMKE CONTROL
LLS 1010	345436.210	2872798.389	911.06	SET #4 BAR W CAP LEMKE CONTROL
LLS 1011	346330.140	2872808.223	924.99	SET #4 BAR W CAP LEMKE CONTROL
LLS 8001	347444.379	2872589.474	893.98	SET #4 BAR W CAP LEMKE CONTROL
LLS 8002	347460.719	2872902.472	902.64	SET #4 BAR W CAP LEMKE CONTROL
LLS BM 8003	347473.632	2872435.699	888.48	SET CHISELED BOX SE CORNER LIGHT POLE BASE

HORIZONTAL DATUM: OKLAHOMA STATE PLANE COORDINATES NAD83 NORTH ZONE 3501

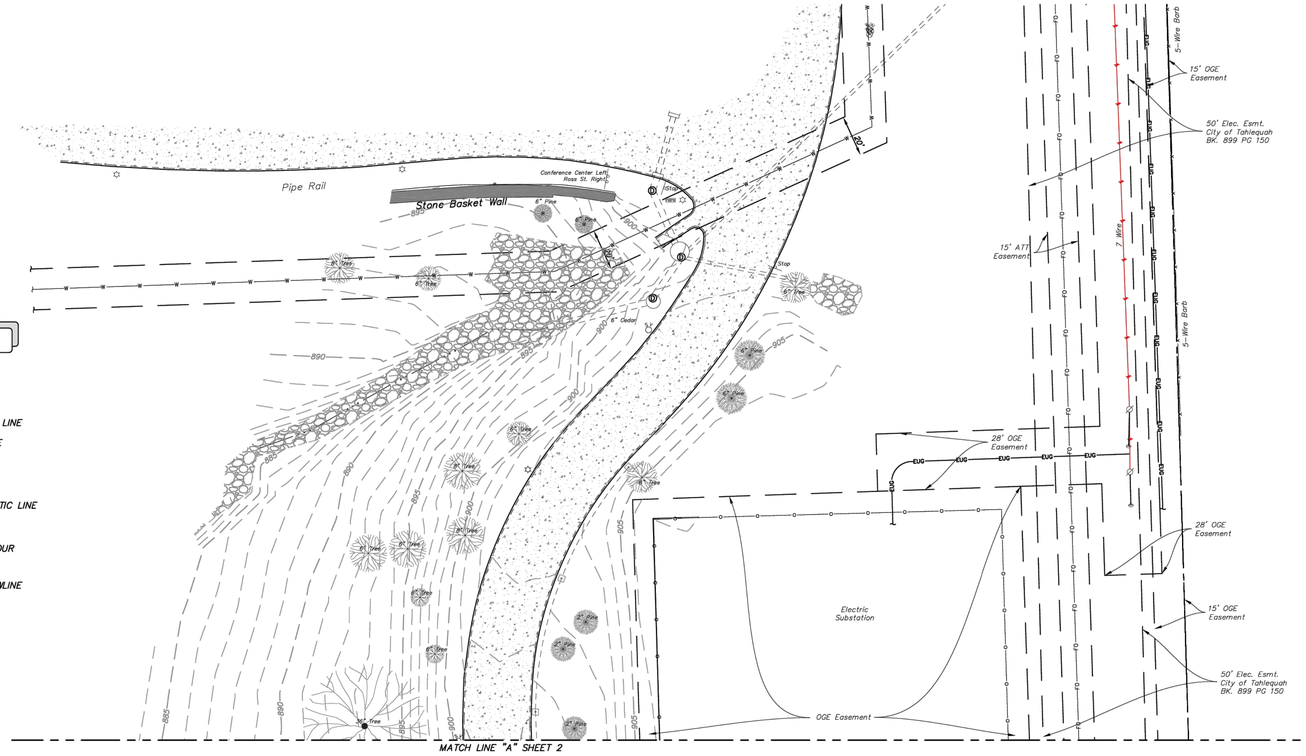
VERTICAL DATUM: NAVD88

SURVEYOR'S NOTES:

1. *This survey was prepared without the benefit of a Title Commitment, Title Opinion, or Abstract as none were provided to the surveyor. Although a due diligence search for easements and items affecting the property was performed, there may be items that affect the subject property that are not shown hereon.*
2. *Basis of Bearings is Grid, Oklahoma State Plane Coordinate System (NAD83) North Zone (3501).*
3. *Utilities were located using visible evidence, city atlas maps (where available) and markings/flags by an Okie-811 call. There may be underground utilities that are not shown hereon. CALL 811 BEFORE DIGGING!*
4. *All points were located with RTK Observations in U.S. survey feet unless an assumed coordinate system was used and noted hereon. All field measurements and angles applied to control points were made with a Topcon HiperHR GPS and Topcon GT603 Robotic Total Station.*
5. *All elevations of control points are based on initial elevation of LLS 12 and the datum used is NAVD88. All elevations of control points are determined by and Sokkia Bar-code Reading Automatic Level or Robotic Total Station to practice accuracy standards unless otherwise noted.*
6. *This survey was performed to meet the Specifications for Topographic and Planimetric Mapping contained in the Oklahoma Minimum Standards for the Practice of Land Surveying as adopted by the Oklahoma State Board of Licensure for Professional Engineers and Land Surveyors unless a more stringent level of accuracy was requested. Additional scope was completed on 05-24-2022.*

TOPOGRAPHIC LEGEND

- LIGHT POLE
- POWER POLE
- DOWN GUY
- GROUND LIGHT
- ELECTRIC METER
- ELECTRIC VAULT
- ELECTRIC RISER
- TELEPHONE RISER
- GAS METER
- FIRE HYDRANT
- WATER METER
- WATER VALVE BOX
- SANITARY SEWER MANHOLE
- SANITARY SEWER CLEANOUT
- STORM DRAIN MANHOLE
- SIGN
- UTILITY PULL BOX
- FF FINISHED FLOOR
- FL FLOWLINE ELEVATION
- BARBED WIRE FENCE
- CHAINLINK FENCE
- PIPERAIL FENCE
- ELECTRIC UNDERGROUND LINE
- OVERHEAD ELECTRIC LINE
- SANITARY SEWER LINE
- STORM DRAIN LINE
- UNDERGROUND FIBER OPTIC LINE
- WATER LINE
- 1185 GROUND SURFACE CONTOUR
- CURB AND GUTTER
- SURFACE DRAINAGE FLOWLINE
- TREE DRIP LINE
- SHRUB LINE
- CONCRETE
- ASPHALT
- GRAVEL



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.

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.

Call OKIE Ticket Nos. 22052306340075

MEMBERS NOTIFIED:

T03145	Chouteau Tele	T09543	Lake Region Electric
T11261	Lake Region Electric/Fi...	T09104	NE OK Pub FacAuth
T11158	AT&T Distribution	T09918	Tahlequah PWA
S01111	Cherokee Nation		

Surveyor's signature is not affixed, the plan is a copy and should be assumed to contain unauthorized alterations. The information contained on this plan shall not apply to any

CHARLES D. CAHILL, P.L.S. NO. 1470 DATED: 06/17/2022

DATE OF LAST SURVEY: 05/24/2022

SURVEY INFORMATION SHOWN ON THE DRAWINGS WERE PROVIDED BY LEMKE LAND SURVEYING, 3226 BART CONNER DRIVE, NORMAN, OK, 73072 PHONE (405) 366-8541, CA #2054. THE OFFICIAL RECORD OF THIS TOPOGRAPHIC SURVEY IS LOCATED AT THE OFFICE OF LEMKE LAND SURVEYING.

LEMKE LAND SURVEYING

LEMKE LAND SURVEYING, INC. 3226 BART CONNER DRIVE NORMAN, OK 73072 PH (405)366-8541 FAX (405)360-6768 CA # 8979 EX. 06/30/2023 http://www.lemke-land.com

No.	Description	Date
Mark		

Surveyed By: JL / ER
Drawn By: RLR
Approved By: CDC
Date: 06/17/2022
Scale: 1" = 30'
Project No: 01512321.00

ADDITIONAL TOPOGRAPHIC DESIGN SURVEY WATERLINE IMPROVEMENTS
HASTINGS HOSPITAL AND ROSS ROAD
PART OF SECTION 34 T-17-N R-22-E
TAHLEQUAH, CHEROKEE COUNTY, OKLAHOMA
JAMES R. CHILDERS, ARCHITECT, INC.
45 SOUTH 4TH STREET FORT SMITH, ARKANSAS 72901

Project:
Property Conditions:
Client:

Sheet Number 1

Sheet 1 of 2

James R. Childers Architect, Inc.
45 South 4th Street
Fort Smith, AR 72901
479-783-2480
www.childersarchitect.com

PROFESSIONAL SEAL:

CONSULTANT LOGO:

Parkhill
14101 Wireless Way, Suite 350
Oklahoma City, OK 73134
405-832-9900
www.parkhill.com
Oklahoma CA #4935, Expires 6/30/2023

CLIENT:

CHEROKEE NATION
W.W. HASTINGS REPLACEMENT HOSPITAL
TAHLEQUAH, OKLAHOMA

KEY PLAN:

PROJECT PHASE:
BID PACKAGE 02
(SITE DEMOLITION AND UTILITIES)

REVISIONS		

JOB NUMBER: 21-08.21
DATE: 10-21-2022
SHEET NUMBER: C1-106
SHEET TITLE: EXISTING CONDITIONS

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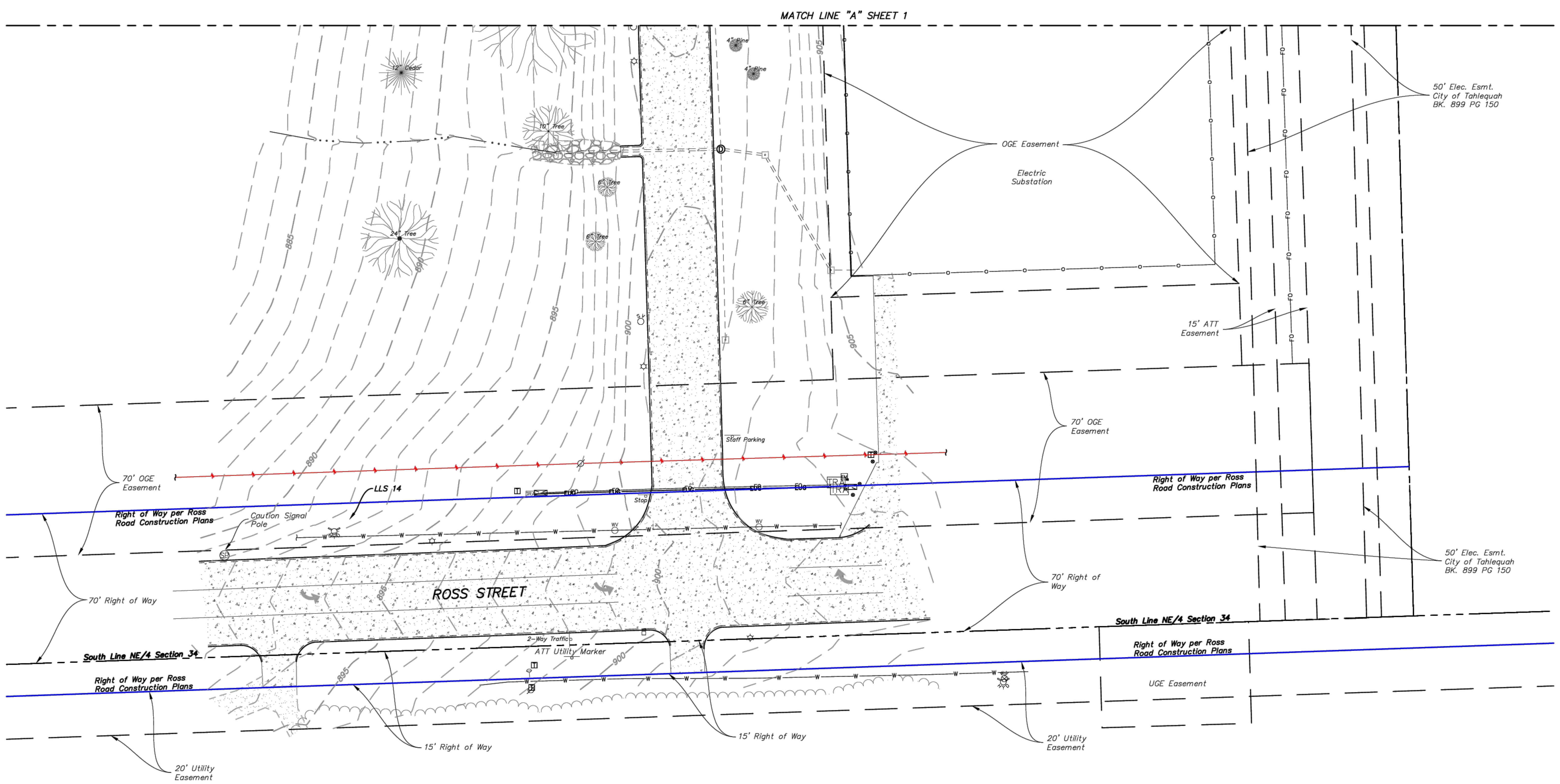

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LEMKE LAND SURVEYING
7060 SOUTH YALE AVE.,
TULSA, OK 74136
PH.(918)895-9383 FAX(918)895-9768
CA # 6975 EX. 06/30/2023
http://www.lemke-ls.com

Mark	Description	Date	Appr.

Surveyed By: JL / ER
Drawn By: RLR
Approved By: CDC
Date: 06/17/2022
Scale: 1" = 30'
Project No: 01512321.00

Project: ADDITIONAL TOPOGRAPHIC DESIGN SURVEY WATERLINE INPROVEMENTS HASTINGS HOSPITAL AND ROSS ROAD

Project Location: PART OF SECTION 34 T-17-N R-22-E TAHLEQUAH, CHEROKEE COUNTY, OKLAHOMA

Client: JAMES R. CHILDERS, ARCHITECT, INC. 45 SOUTH 4TH STREET FORT SMITH, ARKANSAS 72901

Sheet Number 2

Sheet 2 of 2

SURVEY INFORMATION SHOWN ON THE DRAWINGS WERE PROVIDED BY LEMKE LAND SURVEYING, 3226 BART CONNER DRIVE, NORMAN, OK, 73072 PHONE (405) 366-8541, CA #2054. THE OFFICIAL RECORD OF THIS TOPOGRAPHIC SURVEY IS LOCATED AT THE OFFICE OF LEMKE LAND SURVEYING.

James R. Childers Architect, Inc.
45 South 4th Street
Fort Smith, AR 72901
479-783-2480
www.childersarchitect.com

PROFESSIONAL SEAL:

CONSULTANT LOGO:

Parkhill
14101 Wireless Way, Suite 350
Oklahoma City, OK 73134
405-832-9900
www.parkhill.com
Oklahoma CA #4935, Expires 6/30/2023

CLIENT:

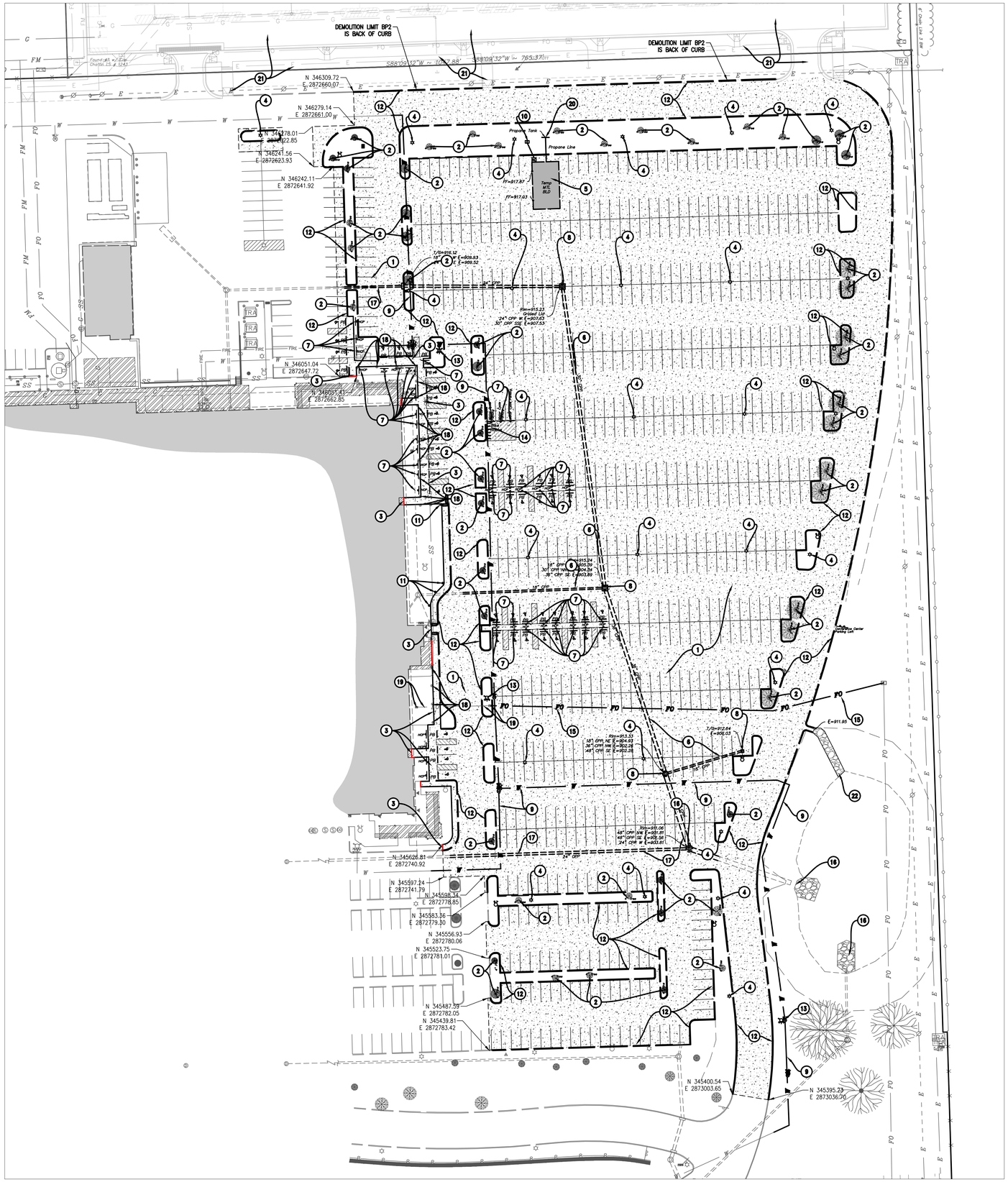
CHEROKEE NATION
W.W. HASTINGS REPLACEMENT HOSPITAL
TAHLEQUAH, OKLAHOMA

KEY PLAN:

PROJECT PHASE:
BID PACKAGE 02
(SITE DEMOLITION AND UTILITIES)

REVISIONS

JOB NUMBER: 21-08.21
DATE: 10-21-2022
SHEET NUMBER: **C1-107**
SHEET TITLE: EXISTING CONDITIONS



KEYNOTES

1	SAWCUT AND REMOVE CONCRETE PAVEMENT.
2	REMOVE TREE AND ROOTS.
3	SAWCUT AND REMOVE CONCRETE SIDEWALK. CM SHALL SCHEDULE AND COORDINATE THE SIDEWALK REMOVAL WITH OWNER AND THE CONSTRUCTION PHASES TO MAXIMIZE THE PERIOD PEDESTRIANS HAVE USE OF A PAVED ACCESS AND EGRESS FROM THE EXISTING CLINIC.
4	REMOVE LIGHT POLE AND BASE. PRESERVE, PROTECT, AND STORE LIGHT POLE FOR RELOCATION. REFER TO ELECTRICAL SITE PLAN FOR LOCATIONS. THE UNDERGROUND ELECTRICAL CIRCUIT TO THE REMAINING LIGHT POLES SHALL BE RE-ESTABLISHED TO SUPPLY POWER TO THE REMAINING SITE LIGHTS.
5	TEMPORARY BUILDING WILL BE REMOVED BY OWNER.
6	REMOVE STORM DRAIN PIPE. SEE C6 SERIES OF SHEETS FOR STORM SEWER RELOCATION DRAWINGS FOR REMOVAL AND RELOCATION OF STORM DRAIN PIPE AND STRUCTURES.
7	REMOVE SIGN. PRESERVE, PROTECT, AND STORE SIGN TO RELOCATE IN NEW LOCATION. REFER TO SITE SIGNAGE PLAN IN FUTURE BID PACKAGE FOR LOCATIONS.
8	REMOVE STORM DRAIN MANHOLE/INLET/ STRUCTURE. SEE C6 SERIES OF SHEETS FOR STORM SEWER RELOCATION DRAWINGS FOR REMOVAL AND RELOCATION OF STORM DRAIN PIPE AND STRUCTURES.
9	REMOVE WATER LINE. SEE C7 SERIES OF SHEETS FOR CONSTRUCTION DRAWINGS FOR WATER LINE RELOCATION AND NEW WATER LINES.
10	REMOVE UNDERGROUND ELECTRICAL LINE. THE UNDERGROUND ELECTRICAL CIRCUIT TO THE REMAINING LIGHT POLES SHALL BE RE-ESTABLISHED TO SUPPLY POWER TO THE REMAINING SITE LIGHTS.
11	REMOVE BOLLARDS.
12	REMOVE CONCRETE BARRIER CURB AND GUTTER
13	REMOVE FIRE HYDRANT. PRESERVE, PROTECT, AND STORE HYDRANT TO RELOCATE. SEE WATER LINE CONSTRUCTION DRAWINGS FOR WATER LINE RELOCATION AND NEW WATER LINES. SEE C4 UTILITY PLAN SHEETS FOR THE LOCATION OF REUSED HYDRANTS.
14	REMOVE, STORE, AND PRESERVE BICYCLE RACKS FOR REUSE.
15	REMOVE COMMUNICATION CONDUITS FROM THE BUILDING FOOTPRINT. CONDUITS ABANDONED IN PLACE SHALL BE FILLED WITH FLOWABLE FILL MATERIAL. SEE C4 SERIES OF UTILITY PLANS FOR NEW COMMUNICATION CONDUITS AND PULL-BOXES.
16	EXISTING STORM DRAIN MANHOLE/INLET/ STRUCTURE TO BE PRESERVED. SEE C6 SERIES OF SHEETS FOR STORM SEWER RELOCATION DRAWINGS.
17	REMOVE PORTIONS OF STORM DRAIN PIPE. REFER TO C6 SERIES OF SHEETS FOR STORM DRAIN RELOCATION DRAWINGS.
18	PROTECT BOLLARDS.
19	PRESERVE AND PROTECT EXISTING FIBER PULL BOX AND CONDUITS INTO CLINIC.
20	PROPANE TANK WILL BE REMOVED BY OWNER.
21	SEE BID PACKAGE 1 FOR DEMOLITION, UTILITY RELOCATION, NEW UTILITIES AND SITE WORK CONSTRUCTION FOR THE NORTH PARKING LOT.
22	REMOVE STONE RIP RAP AND GEOTEXTILE FILTER FABRIC.

DEMOLITION PLAN NOTES

A. CM SHALL CONTACT OKIE (811 OR 1-800-522-OKIE) PRIOR TO CONSTRUCTION FOR LOCATING EXISTING UTILITIES.
B. THE UNDERGROUND UTILITIES SHOWN ON THE DRAWINGS HAVE BEEN LOCATED FROM FIELD SURVEY SURFACE INFORMATION AND EXISTING DRAWINGS. ENGINEER AND SURVEYOR MAKE NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE UNDERGROUND UTILITIES ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE; HOWEVER, ENGINEER AND SURVEYOR FURTHER DO NOT GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED EITHER VERTICALLY OR HORIZONTALLY. ENGINEER AND SURVEYOR HAVE NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES BY PROBING, EXCAVATING, HYDROVAC, OR BY ANY OTHER MEANS.
C. CM SHALL NOTIFY ALL UTILITY COMPANIES AND GOVERNMENTAL AGENCIES WHO MAY HAVE UTILITY LINES ON OR ABOUT THE PREMISES OR WHO MAY BE AFFECTED BY THE CONSTRUCTION. NOTICE SHALL BE GIVEN NO LESS THAN TWENTY-FOUR HOURS PRIOR TO ANY WORK THAT MAY INTERFERE WITH A UTILITY.
D. ALL EXISTING BUILDINGS, STRUCTURES, PAVEMENTS, IMPROVEMENTS, AND UTILITIES DESIGNATED TO REMAIN OR NOT DESIGNATED TO BE REMOVED SHALL BE ADEQUATELY PROTECTED FROM DAMAGE THAT MIGHT OTHERWISE OCCUR DUE TO CONSTRUCTION OPERATIONS. WHERE CONSTRUCTION COMES NEAR EXISTING BUILDINGS, STRUCTURES, PAVEMENTS, IMPROVEMENTS, UTILITIES OR APPURTENANCES, OR IF IT BECOMES NECESSARY TO MOVE SERVICES, POLES, GUY WIRES, PIPE LINES OR OTHER OBSTRUCTIONS, CM SHALL NOTIFY AND COOPERATE WITH THE OWNER OF THE UTILITY, STRUCTURE, OR APPURTENANCE. THE UTILITY LINES AND OTHER EXISTING STRUCTURES SHOWN ON THE PLANS ARE FOR INFORMATION ONLY AND ARE NOT GUARANTEED TO BE COMPLETE OR ACCURATE AS TO LOCATION AND/OR DEPTH. CM SHALL BE LIABLE FOR DAMAGE TO ANY BUILDINGS, STRUCTURES, PAVEMENTS, IMPROVEMENTS, AND UTILITIES RESULTING FROM THE CM'S OPERATIONS. DURING CONSTRUCTION, ALL FIRE HYDRANTS, VALVE BOXES, TRAFFIC SIGNALS, FIRE OR POLICE CALL BOXES AND OTHER EXISTING UTILITY CONTROLS SHALL BE LEFT INTACT, UNOBSTRUCTED AND ACCESSIBLE UNLESS NOTED ON THE PLAN.
E. CM SHALL SATISFY THEMSELVES AS TO THE ACTUAL EXISTING SUBSURFACE CONDITIONS, INCLUDING BUT NOT LIMITED TO THE DEPTH, LOCATION AND SIZES OF PIPE OR CONDUITS OF VARIOUS KINDS IN PLACE PRIOR TO BEGINNING WORK. WHERE THE EXACT DEPTH OF ANY UTILITY OR OBSTRUCTION IS NOT SHOWN ON A PLAN, EXCAVATION SHALL BE MADE PRIOR TO REACHING THE OBSTRUCTION IN ORDER TO DETERMINE ADJUSTMENTS IN GRADE IF NEEDED TO PREVENT INTERFERENCE. REDESIGN TO ELIMINATE CONFLICTS MAY BE NECESSARY.
F. NOTIFY ENGINEER OF DISCREPANCIES BETWEEN EXISTING CONDITIONS AND DRAWINGS BEFORE PROCEEDING WITH SELECTIVE DEMOLITION.
G. IF CM ENCOUNTERS A HAZARDOUS ENVIRONMENTAL CONDITION OR IF CM OR ANYONE FOR WHOM CM IS RESPONSIBLE CREATES A HAZARDOUS ENVIRONMENTAL CONDITION, CM SHALL IMMEDIATELY: (I) SECURE OR OTHERWISE ISOLATE SUCH CONDITION; (II) STOP ALL WORK IN CONNECTION WITH SUCH CONDITION AND IN ANY AREA AFFECTED THEREBY (EXCEPT IN AN EMERGENCY); AND (III) NOTIFY OWNER AND ENGINEER (AND PROMPTLY THEREAFTER CONFIRM SUCH NOTICE IN WRITING). OWNER SHALL PROMPTLY CONSULT WITH ENGINEER CONCERNING THE NECESSITY FOR OWNER TO RETAIN A QUALIFIED EXPERT TO EVALUATE SUCH CONDITION OR TAKE CORRECTIVE ACTION, IF ANY.
H. UNLESS OTHERWISE SPECIFIED, ALL EXCAVATION IS UNCLASSIFIED AND SHALL INCLUDE ALL MATERIALS ENCOUNTERED.
I. CM SHALL SATISFY THEMSELVES AS TO THE ACTUAL EXISTING SUBSURFACE CONDITIONS, INCLUDING BUT NOT LIMITED TO THE DEPTH, LOCATION AND SIZES OF PIPE OR CONDUITS OF VARIOUS KINDS IN PLACE. WHERE THE EXACT DEPTH OF ANY UTILITY OR OBSTRUCTION IS NOT SHOWN ON A PLAN, EXCAVATION SHALL BE MADE PRIOR TO REACHING THE OBSTRUCTION IN ORDER TO DETERMINE ADJUSTMENTS IN GRADE IF NEEDED TO PREVENT INTERFERENCE. REDESIGN TO ELIMINATE CONFLICTS MAY BE NECESSARY.
J. CM SHALL BE RESPONSIBLE FOR CLEARING AND GRUBBING THE SITE. UNSUITABLE EXCAVATED MATERIALS AND ALL WASTE RESULTING FROM CLEARING AND GRUBBING SHALL BE DISPOSED OFF-SITE.
K. THE REMOVAL OF ANY UTILITY LINE, SERVICE, APPURTENANCE, AND STRUCTURE SHALL BE COORDINATED WITH THE OWNER OF THE RESPECTIVE UTILITY.
L. ALL PAVEMENT REMOVAL CONTIGUOUS TO PAVEMENT REMAINING SHALL BE SAWED IN STRAIGHT LINES TO THE FULL DEPTH OF THE EXISTING PAVEMENT.
M. ALL DEBRIS FROM REMOVAL OPERATIONS SHALL BE REMOVED FROM THE SITE AT THE TIME OF EXCAVATION. STOCKPILING OF DEBRIS SHALL NOT BE PERMITTED.
N. CM SHALL BACKFILL ANY VOIDS RESULTING FROM STRUCTURES, VEGETATION, AND OBJECTS REMOVED. FILL SHALL BE PLACED IN MAXIMUM 6" LIFTS AND COMPACTED TO A DRY DENSITY OF AT LEAST 98% OF THE MAXIMUM DRY DENSITY OBTAINED BY THE STANDARD COMPACTION TEST (ASTM D-698) AT A WATER CONTENT WITHIN 3% OF THE OPTIMUM.

RELATED SHEETS

A. SEE THE C4 SERIES OF SHEETS FOR UTILITY CONSTRUCTION.
B. SEE THE C6 SERIES OF SHEETS FOR STORM DRAIN CONSTRUCTION.
C. SEE THE C7 SERIES OF SHEETS FOR WATER CONSTRUCTION.
D. SEE THE C8 SERIES OF SHEETS FOR SEWER CONSTRUCTION. THE C8 SEWER CONSTRUCTION SHEETS WILL BE ISSUED IN A FUTURE BID PACKAGE.

N

0' 40' 80' 160'

SCALE: 1" = 40'

UTILITY WARNING:
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REGISTERED PROFESSIONAL ENGINEER
COREY W. LIPPS
21291
10/21/22

CONSULTANT LOGO:
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405-832-9900
www.parkhill.com
Oklahoma CA #4935, Expires 6/30/2023

CLIENT:
CHEROKEE NATION
SEAL OF THE CHEROKEE NATION
SEPT. 6, 1839

CHEROKEE NATION
W.W. HASTINGS REPLACEMENT HOSPITAL
TAHLEQUAH, OKLAHOMA

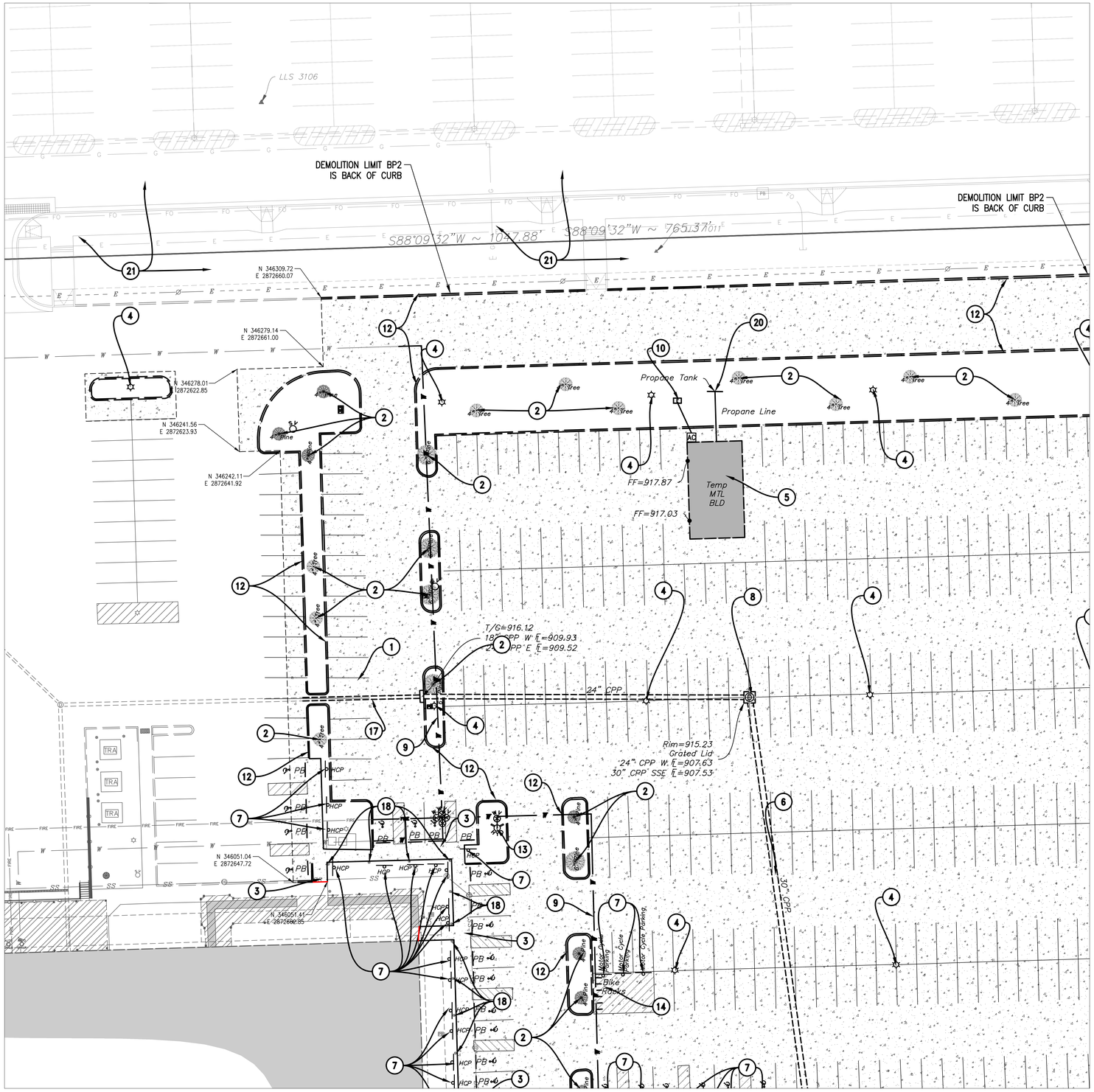
KEY PLAN:
A1 A2
B1 B2
C1 C2

PROJECT PHASE:
BID PACKAGE 02
(SITE DEMOLITION AND UTILITIES)

REVISIONS

JOB NUMBER: 21-08.21
DATE: 10-21-2022
SHEET NUMBER: **C2-101**
SHEET TITLE: OVERALL DEMOLITION VIEW

10/21/2022 A:\2021\5123210 3_DSGN\01_DWG\050_CIVIL\C2-DEMO-5123.DWG



KEYNOTES

1	SAWCUT AND REMOVE CONCRETE PAVEMENT.
2	REMOVE TREE AND ROOTS.
3	SAWCUT AND REMOVE CONCRETE SIDEWALK. CM SHALL SCHEDULE AND COORDINATE THE SIDEWALK REMOVAL WITH OWNER AND THE CONSTRUCTION PHASES TO MAXIMIZE THE PERIOD PEDESTRIANS HAVE USE OF A PAVED ACCESS AND EGRESS FROM THE EXISTING CLINIC.
4	REMOVE LIGHT POLE AND BASE. PRESERVE, PROTECT, AND STORE LIGHT POLE FOR RELOCATION. REFER TO ELECTRICAL SITE PLAN FOR LOCATIONS. THE UNDERGROUND ELECTRICAL CIRCUIT TO THE REMAINING LIGHT POLES SHALL BE RE-ESTABLISHED TO SUPPLY POWER TO THE REMAINING SITE LIGHTS.
5	TEMPORARY BUILDING WILL BE REMOVED BY OWNER.
6	REMOVE STORM DRAIN PIPE. SEE C6 SERIES OF SHEETS FOR STORM SEWER RELOCATION DRAWINGS FOR REMOVAL AND RELOCATION OF STORM DRAIN PIPE AND STRUCTURES.
7	REMOVE SIGN. PRESERVE, PROTECT, AND STORE SIGN TO RELOCATE IN NEW LOCATION. REFER TO SITE SIGNAGE PLAN IN FUTURE BID PACKAGE FOR LOCATIONS.
8	REMOVE STORM DRAIN MANHOLE/INLET/ STRUCTURE. SEE C6 SERIES OF SHEETS FOR STORM SEWER RELOCATION DRAWINGS FOR REMOVAL AND RELOCATION OF STORM DRAIN PIPE AND STRUCTURES.
9	REMOVE WATER LINE. SEE C7 SERIES OF SHEETS FOR CONSTRUCTION DRAWINGS FOR WATER LINE RELOCATION AND NEW WATER LINES.
10	REMOVE UNDERGROUND ELECTRICAL LINE. THE UNDERGROUND ELECTRICAL CIRCUIT TO THE REMAINING LIGHT POLES SHALL BE RE-ESTABLISHED TO SUPPLY POWER TO THE REMAINING SITE LIGHTS.
11	REMOVE BOLLARDS.
12	REMOVE CONCRETE BARRIER CURB AND GUTTER
13	REMOVE FIRE HYDRANT. PRESERVE, PROTECT, AND STORE HYDRANT TO RELOCATE. SEE WATER LINE CONSTRUCTION DRAWINGS FOR WATER LINE RELOCATION AND NEW WATER LINES. SEE C4 UTILITY PLAN SHEETS FOR THE LOCATION OF REUSED HYDRANTS.
14	REMOVE, STORE, AND PRESERVE BICYCLE RACKS FOR REUSE.
15	REMOVE COMMUNICATION CONDUITS FROM THE BUILDING FOOTPRINT. CONDUITS ABANDONED IN PLACE SHALL BE FILLED WITH FLOWABLE FILL MATERIAL. SEE C4 SERIES OF UTILITY PLANS FOR NEW COMMUNICATION CONDUITS AND PULL-BOXES.
16	EXISTING STORM DRAIN MANHOLE/INLET/ STRUCTURE TO BE PRESERVED. SEE C6 SERIES OF SHEETS FOR STORM SEWER RELOCATION DRAWINGS.
17	REMOVE PORTIONS OF STORM DRAIN PIPE. REFER TO C6 SERIES OF SHEETS FOR STORM DRAIN RELOCATION DRAWINGS.
18	PROTECT BOLLARDS.
19	PRESERVE AND PROTECT EXISTING FIBER PULL BOX AND CONDUITS INTO CLINIC.
20	PROPANE TANK WILL BE REMOVED BY OWNER.
21	SEE BID PACKAGE 1 FOR DEMOLITION, UTILITY RELOCATION, NEW UTILITIES AND SITE WORK CONSTRUCTION FOR THE NORTH PARKING LOT.
22	REMOVE STONE RIP RAP AND GEOTEXTILE FILTER FABRIC.

DEMOLITION PLAN NOTES

A. CM SHALL CONTACT OKIE (811 OR 1-800-522-OKIE) PRIOR TO CONSTRUCTION FOR LOCATING EXISTING UTILITIES.
B. THE UNDERGROUND UTILITIES SHOWN ON THE DRAWINGS HAVE BEEN LOCATED FROM FIELD SURVEY SURFACE INFORMATION AND EXISTING DRAWINGS. ENGINEER AND SURVEYOR MAKE NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE UNDERGROUND UTILITIES ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE; HOWEVER, ENGINEER AND SURVEYOR FURTHER DO NOT GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED EITHER VERTICALLY OR HORIZONTALLY. ENGINEER AND SURVEYOR HAVE NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES BY PROBING, EXCAVATING, HYDROVAC, OR BY ANY OTHER MEANS.
C. CM SHALL NOTIFY ALL UTILITY COMPANIES AND GOVERNMENTAL AGENCIES WHO MAY HAVE UTILITY LINES ON OR ABOUT THE PREMISES OR WHO MAY BE AFFECTED BY THE CONSTRUCTION. NOTICE SHALL BE GIVEN NO LESS THAN TWENTY-FOUR HOURS PRIOR TO ANY WORK THAT MAY INTERFERE WITH A UTILITY.
D. ALL EXISTING BUILDINGS, STRUCTURES, PAVEMENTS, IMPROVEMENTS, AND UTILITIES DESIGNATED TO REMAIN OR NOT DESIGNATED TO BE REMOVED SHALL BE ADEQUATELY PROTECTED FROM DAMAGE THAT MIGHT OTHERWISE OCCUR DUE TO CONSTRUCTION OPERATIONS. WHERE CONSTRUCTION COMES NEAR EXISTING BUILDINGS, STRUCTURES, PAVEMENTS, IMPROVEMENTS, UTILITIES OR APPURTENANCES, OR IF IT BECOMES NECESSARY TO MOVE SERVICES, POLES, GUY WIRES, PIPE LINES OR OTHER OBSTRUCTIONS, CM SHALL NOTIFY AND COOPERATE WITH THE OWNER OF THE UTILITY, STRUCTURE, OR APPURTENANCE. THE UTILITY LINES AND OTHER EXISTING STRUCTURES SHOWN ON THE PLANS ARE FOR INFORMATION ONLY AND ARE NOT GUARANTEED TO BE COMPLETE OR ACCURATE AS TO LOCATION AND/OR DEPTH. CM SHALL BE LIABLE FOR DAMAGE TO ANY BUILDINGS, STRUCTURES, PAVEMENTS, IMPROVEMENTS, AND UTILITIES RESULTING FROM THE CM'S OPERATIONS. DURING CONSTRUCTION, ALL FIRE HYDRANTS, VALVE BOXES, TRAFFIC SIGNALS, FIRE OR POLICE CALL BOXES AND OTHER EXISTING UTILITY CONTROLS SHALL BE LEFT INTACT, UNOBSTRUCTED AND ACCESSIBLE UNLESS NOTED ON THE PLAN.
E. CM SHALL SATISFY THEMSELVES AS TO THE ACTUAL EXISTING SUBSURFACE CONDITIONS, INCLUDING BUT NOT LIMITED TO THE DEPTH, LOCATION AND SIZES OF PIPE OR CONDUITS OF VARIOUS KINDS IN PLACE PRIOR TO BEGINNING WORK. WHERE THE EXACT DEPTH OF ANY UTILITY OR OBSTRUCTION IS NOT SHOWN ON A PLAN, EXCAVATION SHALL BE MADE PRIOR TO REACHING THE OBSTRUCTION IN ORDER TO DETERMINE ADJUSTMENTS IN GRADE IF NEEDED TO PREVENT INTERFERENCE. REDESIGN TO ELIMINATE CONFLICTS MAY BE NECESSARY.
F. NOTIFY ENGINEER OF DISCREPANCIES BETWEEN EXISTING CONDITIONS AND DRAWINGS BEFORE PROCEEDING WITH SELECTIVE DEMOLITION.
G. IF CM ENCOUNTERS A HAZARDOUS ENVIRONMENTAL CONDITION OR IF CM OR ANYONE FOR WHOM CM IS RESPONSIBLE CREATES A HAZARDOUS ENVIRONMENTAL CONDITION, CM SHALL IMMEDIATELY: (I) SECURE OR OTHERWISE ISOLATE SUCH CONDITION; (II) STOP ALL WORK IN CONNECTION WITH SUCH CONDITION AND IN ANY AREA AFFECTED THEREBY (EXCEPT IN AN EMERGENCY); AND (III) NOTIFY OWNER AND ENGINEER (AND PROMPTLY THEREAFTER CONFIRM SUCH NOTICE IN WRITING). OWNER SHALL PROMPTLY CONSULT WITH ENGINEER CONCERNING THE NECESSITY FOR OWNER TO RETAIN A QUALIFIED EXPERT TO EVALUATE SUCH CONDITION OR TAKE CORRECTIVE ACTION, IF ANY.
H. UNLESS OTHERWISE SPECIFIED, ALL EXCAVATION IS UNCLASSIFIED AND SHALL INCLUDE ALL MATERIALS ENCOUNTERED.
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RELATED SHEETS

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SCALE: 1" = 20'

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THE SEAL OF THE CHEROKEE NATION
SEPT. 6, 1839

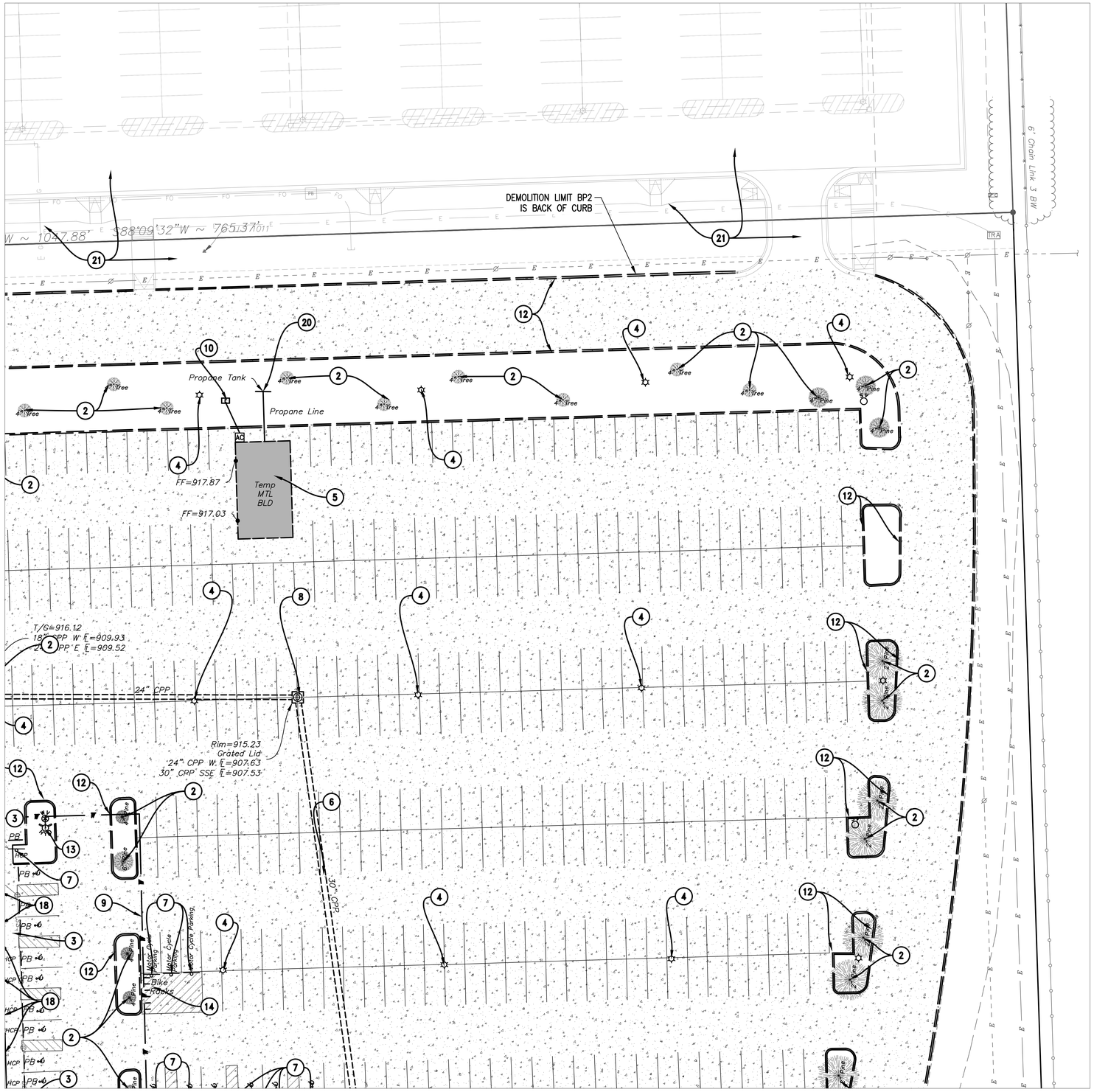
CHEROKEE NATION W.W. HASTINGS REPLACEMENT HOSPITAL
TAHLEQUAH, OKLAHOMA

KEY PLAN:
A1 | A2
B1 | B2
C1 | C2

PROJECT PHASE:
BID PACKAGE 02
(SITE DEMOLITION AND UTILITIES)

REVISIONS

JOB NUMBER: 21-08.21
DATE: 10-21-2022
SHEET NUMBER: **C2-102**
SHEET TITLE: A1 DEMOLITION PLAN



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SCALE: 1" = 20'

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W.W. HASTINGS REPLACEMENT HOSPITAL
TAHLEQUAH, OKLAHOMA

KEY PLAN:
A1 | A2
B1 | B2
C1 | C2

PROJECT PHASE:
BID PACKAGE 02
(SITE DEMOLITION AND UTILITIES)

REVISIONS

JOB NUMBER: 21-08.21
DATE: 10-21-2022
SHEET NUMBER: **C2-103**
SHEET TITLE: A2 DEMOLITION PLAN

KEYNOTES

1	SAWCUT AND REMOVE CONCRETE PAVEMENT.
2	REMOVE TREE AND ROOTS.
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4	REMOVE LIGHT POLE AND BASE. PRESERVE, PROTECT, AND STORE LIGHT POLE FOR RELOCATION. REFER TO ELECTRICAL SITE PLAN FOR LOCATIONS. THE UNDERGROUND ELECTRICAL CIRCUIT TO THE REMAINING LIGHT POLES SHALL BE RE-ESTABLISHED TO SUPPLY POWER TO THE REMAINING SITE LIGHTS.
5	TEMPORARY BUILDING WILL BE REMOVED BY OWNER.
6	REMOVE STORM DRAIN PIPE. SEE C6 SERIES OF SHEETS FOR STORM SEWER RELOCATION DRAWINGS FOR REMOVAL AND RELOCATION OF STORM DRAIN PIPE AND STRUCTURES.
7	REMOVE SIGN. PRESERVE, PROTECT, AND STORE SIGN TO RELOCATE IN NEW LOCATION. REFER TO SITE SIGNAGE PLAN IN FUTURE BID PACKAGE FOR LOCATIONS.
8	REMOVE STORM DRAIN MANHOLE/INLET/ STRUCTURE. SEE C6 SERIES OF SHEETS FOR STORM SEWER RELOCATION DRAWINGS FOR REMOVAL AND RELOCATION OF STORM DRAIN PIPE AND STRUCTURES.
9	REMOVE WATER LINE. SEE C7 SERIES OF SHEETS FOR CONSTRUCTION DRAWINGS FOR WATER LINE RELOCATION AND NEW WATER LINES.
10	REMOVE UNDERGROUND ELECTRICAL LINE. THE UNDERGROUND ELECTRICAL CIRCUIT TO THE REMAINING LIGHT POLES SHALL BE RE-ESTABLISHED TO SUPPLY POWER TO THE REMAINING SITE LIGHTS.
11	REMOVE BOLLARDS.
12	REMOVE CONCRETE BARRIER CURB AND GUTTER
13	REMOVE FIRE HYDRANT. PRESERVE, PROTECT, AND STORE HYDRANT TO RELOCATE. SEE WATER LINE CONSTRUCTION DRAWINGS FOR WATER LINE RELOCATION AND NEW WATER LINES. SEE C4 UTILITY PLAN SHEETS FOR THE LOCATION OF REUSED HYDRANTS.
14	REMOVE, STORE, AND PRESERVE BICYCLE RACKS FOR REUSE.
15	REMOVE COMMUNICATION CONDUITS FROM THE BUILDING FOOTPRINT. CONDUITS ABANDONED IN PLACE SHALL BE FILLED WITH FLOWABLE FILL MATERIAL. SEE C4 SERIES OF UTILITY PLANS FOR NEW COMMUNICATION CONDUITS AND PULL-BOXES.
16	EXISTING STORM DRAIN MANHOLE/INLET/ STRUCTURE TO BE PRESERVED. SEE C6 SERIES OF SHEETS FOR STORM SEWER RELOCATION DRAWINGS.
17	REMOVE PORTIONS OF STORM DRAIN PIPE. REFER TO C6 SERIES OF SHEETS FOR STORM DRAIN RELOCATION DRAWINGS.
18	PROTECT BOLLARDS.
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20	PROPANE TANK WILL BE REMOVED BY OWNER.
21	SEE BID PACKAGE 1 FOR DEMOLITION, UTILITY RELOCATION, NEW UTILITIES AND SITE WORK CONSTRUCTION FOR THE NORTH PARKING LOT.
22	REMOVE STONE RIP RAP AND GEOTEXTILE FILTER FABRIC.

DEMOLITION PLAN NOTES

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B. THE UNDERGROUND UTILITIES SHOWN ON THE DRAWINGS HAVE BEEN LOCATED FROM FIELD SURVEY SURFACE INFORMATION AND EXISTING DRAWINGS. ENGINEER AND SURVEYOR MAKE NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE UNDERGROUND UTILITIES ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE; HOWEVER, ENGINEER AND SURVEYOR FURTHER DO NOT GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED EITHER VERTICALLY OR HORIZONTALLY. ENGINEER AND SURVEYOR HAVE NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES BY PROBING, EXCAVATING, HYDROVAC, OR BY ANY OTHER MEANS.
C. CM SHALL NOTIFY ALL UTILITY COMPANIES AND GOVERNMENTAL AGENCIES WHO MAY HAVE UTILITY LINES ON OR ABOUT THE PREMISES OR WHO MAY BE AFFECTED BY THE CONSTRUCTION. NOTICE SHALL BE GIVEN NO LESS THAN TWENTY-FOUR HOURS PRIOR TO ANY WORK THAT MAY INTERFERE WITH A UTILITY.
D. ALL EXISTING BUILDINGS, STRUCTURES, PAVEMENTS, IMPROVEMENTS, AND UTILITIES DESIGNATED TO REMAIN OR NOT DESIGNATED TO BE REMOVED SHALL BE ADEQUATELY PROTECTED FROM DAMAGE THAT MIGHT OTHERWISE OCCUR DUE TO CONSTRUCTION OPERATIONS. WHERE CONSTRUCTION COMES NEAR EXISTING BUILDINGS, STRUCTURES, PAVEMENTS, IMPROVEMENTS, UTILITIES OR APPURTENANCES, OR IF IT BECOMES NECESSARY TO MOVE SERVICES, POLES, GUY WIRES, PIPE LINES OR OTHER OBSTRUCTIONS, CM SHALL NOTIFY AND COOPERATE WITH THE OWNER OF THE UTILITY, STRUCTURE, OR APPURTENANCE. THE UTILITY LINES AND OTHER EXISTING STRUCTURES SHOWN ON THE PLANS ARE FOR INFORMATION ONLY AND ARE NOT GUARANTEED TO BE COMPLETE OR ACCURATE AS TO LOCATION AND/OR DEPTH. CM SHALL BE LIABLE FOR DAMAGE TO ANY BUILDINGS, STRUCTURES, PAVEMENTS, IMPROVEMENTS, AND UTILITIES RESULTING FROM THE CM'S OPERATIONS. DURING CONSTRUCTION, ALL FIRE HYDRANTS, VALVE BOXES, TRAFFIC SIGNALS, FIRE OR POLICE CALL BOXES AND OTHER EXISTING UTILITY CONTROLS SHALL BE LEFT INTACT, UNOBSTRUCTED AND ACCESSIBLE UNLESS NOTED ON THE PLAN.
E. CM SHALL SATISFY THEMSELVES AS TO THE ACTUAL EXISTING SUBSURFACE CONDITIONS, INCLUDING BUT NOT LIMITED TO THE DEPTH, LOCATION AND SIZES OF PIPE OR CONDUITS OF VARIOUS KINDS IN PLACE PRIOR TO BEGINNING WORK. WHERE THE EXACT DEPTH OF ANY UTILITY OR OBSTRUCTION IS NOT SHOWN ON A PLAN, EXCAVATION SHALL BE MADE PRIOR TO REACHING THE OBSTRUCTION IN ORDER TO DETERMINE ADJUSTMENTS IN GRADE IF NEEDED TO PREVENT INTERFERENCE. REDESIGN TO ELIMINATE CONFLICTS MAY BE NECESSARY.
F. NOTIFY ENGINEER OF DISCREPANCIES BETWEEN EXISTING CONDITIONS AND DRAWINGS BEFORE PROCEEDING WITH SELECTIVE DEMOLITION.
G. IF CM ENCOUNTERS A HAZARDOUS ENVIRONMENTAL CONDITION OR IF CM OR ANYONE FOR WHOM CM IS RESPONSIBLE CREATES A HAZARDOUS ENVIRONMENTAL CONDITION, CM SHALL IMMEDIATELY: (I) SECURE OR OTHERWISE ISOLATE SUCH CONDITION; (II) STOP ALL WORK IN CONNECTION WITH SUCH CONDITION AND IN ANY AREA AFFECTED THEREBY (EXCEPT IN AN EMERGENCY); AND (III) NOTIFY OWNER AND ENGINEER (AND PROMPTLY THEREAFTER CONFIRM SUCH NOTICE IN WRITING). OWNER SHALL PROMPTLY CONSULT WITH ENGINEER CONCERNING THE NECESSITY FOR OWNER TO RETAIN A QUALIFIED EXPERT TO EVALUATE SUCH CONDITION OR TAKE CORRECTIVE ACTION, IF ANY.
H. UNLESS OTHERWISE SPECIFIED, ALL EXCAVATION IS UNCLASSIFIED AND SHALL INCLUDE ALL MATERIALS ENCOUNTERED.
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K. THE REMOVAL OF ANY UTILITY LINE, SERVICE, APPURTENANCE, AND STRUCTURE SHALL BE COORDINATED WITH THE OWNER OF THE RESPECTIVE UTILITY.
L. ALL PAVEMENT REMOVAL CONTIGUOUS TO PAVEMENT REMAINING SHALL BE SAWED IN STRAIGHT LINES TO THE FULL DEPTH OF THE EXISTING PAVEMENT.
M. ALL DEBRIS FROM REMOVAL OPERATIONS SHALL BE REMOVED FROM THE SITE AT THE TIME OF EXCAVATION. STOCKPILING OF DEBRIS SHALL NOT BE PERMITTED.
N. CM SHALL BACKFILL ANY VOIDS RESULTING FROM STRUCTURES, VEGETATION, AND OBJECTS REMOVED. FILL SHALL BE PLACED IN MAXIMUM 6" LIFTS AND COMPACTED TO A A DRY DENSITY OF AT LEAST 98% OF THE MAXIMUM DRY DENSITY OBTAINED BY THE STANDARD COMPACTION TEST (ASTM D-698) AT A WATER CONTENT WITHIN 3% OF THE OPTIMUM.

RELATED SHEETS

A. SEE THE C4 SERIES OF SHEETS FOR UTILITY CONSTRUCTION.
B. SEE THE C6 SERIES OF SHEETS FOR STORM DRAIN CONSTRUCTION.
C. SEE THE C7 SERIES OF SHEETS FOR WATER CONSTRUCTION.
D. SEE THE C8 SERIES OF SHEETS FOR SEWER CONSTRUCTION. THE C8 SEWER CONSTRUCTION SHEETS WILL BE ISSUED IN A FUTURE BID PACKAGE.

UTILITY WARNING:
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N

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SCALE: 1" = 20'

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B1

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21291
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SEPT. 6, 1839

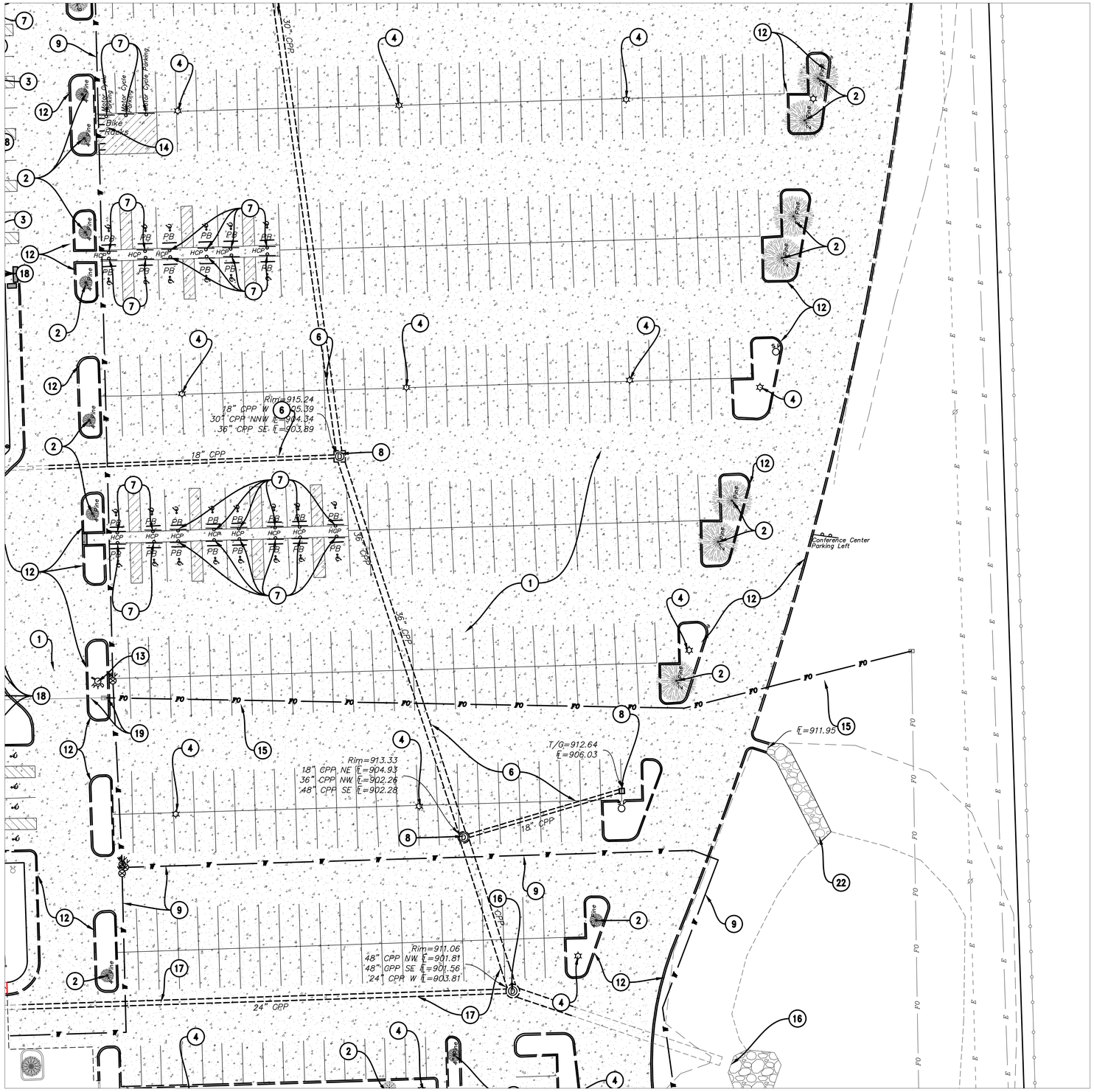
CHEROKEE NATION
W.W. HASTINGS REPLACEMENT HOSPITAL
TAHLEQUAH, OKLAHOMA

KEY PLAN:
A1 A2
B1 B2
C1 C2

PROJECT PHASE:
BID PACKAGE 02
(SITE DEMOLITION AND UTILITIES)

REVISIONS

JOB NUMBER: 21-08.21
DATE: 10-21-2022
SHEET NUMBER: **C2-104**
SHEET TITLE: B1 DEMOLITION PLAN



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SCALE: 1" = 20'

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SEPT. 6, 1839

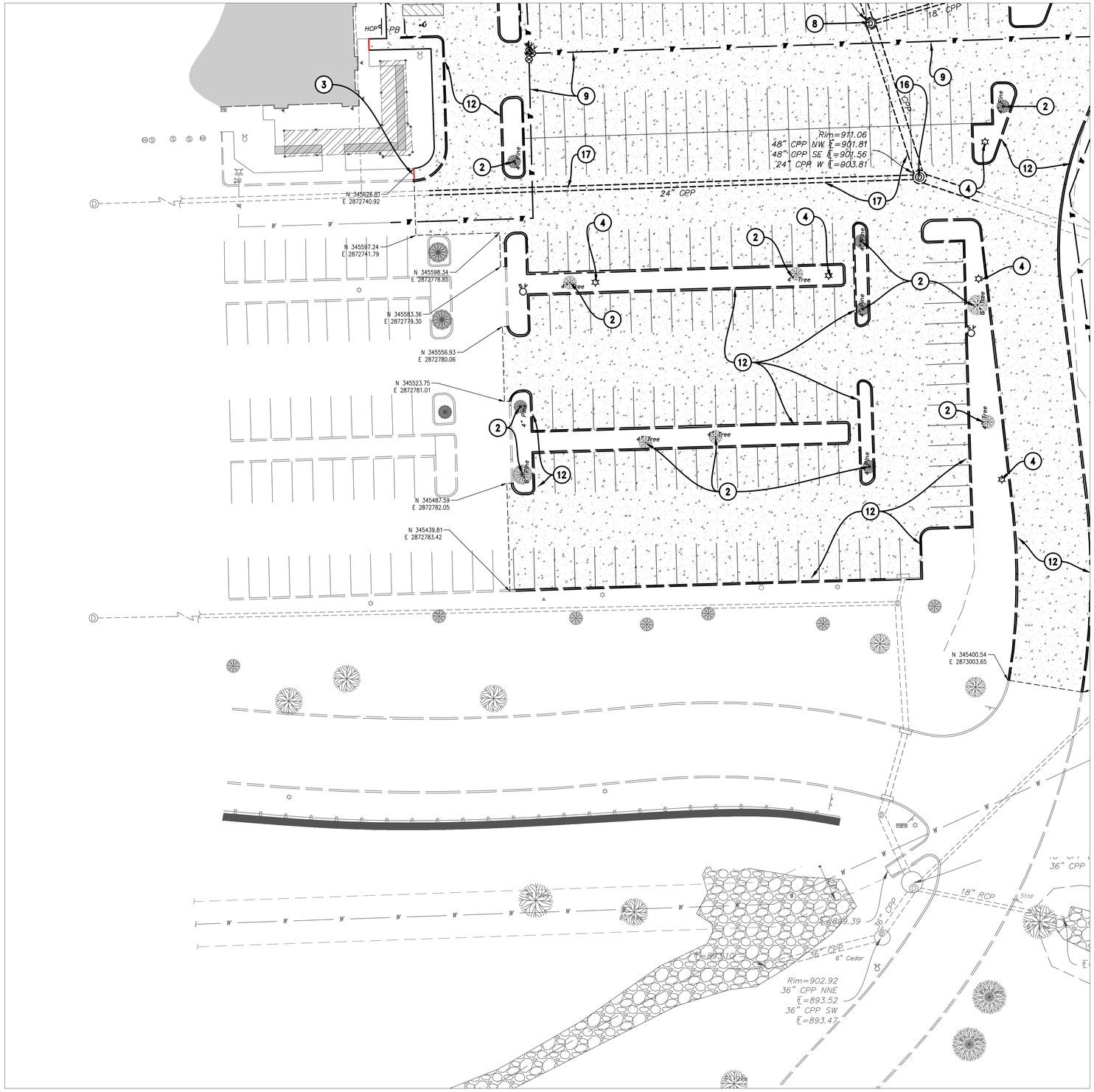
CHEROKEE NATION
W.W. HASTINGS REPLACEMENT HOSPITAL
TAHLEQUAH, OKLAHOMA

KEY PLAN:
A1 A2
B1 B2
C1 C2

PROJECT PHASE:
BID PACKAGE 02
(SITE DEMOLITION AND UTILITIES)

REVISIONS

JOB NUMBER: 21-08.21
DATE: 10-21-2022
SHEET NUMBER: **C2-105**
SHEET TITLE: B2 DEMOLITION PLAN



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B. THE UNDERGROUND UTILITIES SHOWN ON THE DRAWINGS HAVE BEEN LOCATED FROM FIELD SURVEY SURFACE INFORMATION AND EXISTING DRAWINGS. ENGINEER AND SURVEYOR MAKE NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE UNDERGROUND UTILITIES ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE; HOWEVER, ENGINEER AND SURVEYOR FURTHER DO NOT GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED EITHER VERTICALLY OR HORIZONTALLY. ENGINEER AND SURVEYOR HAVE NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES BY PROBING, EXCAVATING, HYDROVAC, OR BY ANY OTHER MEANS.
C. CM SHALL NOTIFY ALL UTILITY COMPANIES AND GOVERNMENTAL AGENCIES WHO MAY HAVE UTILITY LINES ON OR ABOUT THE PREMISES OR WHO MAY BE AFFECTED BY THE CONSTRUCTION. NOTICE SHALL BE GIVEN NO LESS THAN TWENTY-FOUR HOURS PRIOR TO ANY WORK THAT MAY INTERFERE WITH A UTILITY.
D. ALL EXISTING BUILDINGS, STRUCTURES, PAVEMENTS, IMPROVEMENTS, AND UTILITIES DESIGNATED TO REMAIN OR NOT DESIGNATED TO BE REMOVED SHALL BE ADEQUATELY PROTECTED FROM DAMAGE THAT MIGHT OTHERWISE OCCUR DUE TO CONSTRUCTION OPERATIONS. WHERE CONSTRUCTION COMES NEAR EXISTING BUILDINGS, STRUCTURES, PAVEMENTS, IMPROVEMENTS, UTILITIES OR APPURTENANCES, OR IF IT BECOMES NECESSARY TO MOVE SERVICES, POLES, GUY WIRES, PIPE LINES OR OTHER OBSTRUCTIONS, CM SHALL NOTIFY AND COOPERATE WITH THE OWNER OF THE UTILITY, STRUCTURE, OR APPURTENANCE. THE UTILITY LINES AND OTHER EXISTING STRUCTURES SHOWN ON THE PLANS ARE FOR INFORMATION ONLY AND ARE NOT GUARANTEED TO BE COMPLETE OR ACCURATE AS TO LOCATION AND/OR DEPTH. CM SHALL BE LIABLE FOR DAMAGE TO ANY BUILDINGS, STRUCTURES, PAVEMENTS, IMPROVEMENTS, AND UTILITIES RESULTING FROM THE CM'S OPERATIONS. DURING CONSTRUCTION, ALL FIRE HYDRANTS, VALVE BOXES, TRAFFIC SIGNALS, FIRE OR POLICE CALL BOXES AND OTHER EXISTING UTILITY CONTROLS SHALL BE LEFT INTACT, UNOBSTRUCTED AND ACCESSIBLE UNLESS NOTED ON THE PLAN.
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F. NOTIFY ENGINEER OF DISCREPANCIES BETWEEN EXISTING CONDITIONS AND DRAWINGS BEFORE PROCEEDING WITH SELECTIVE DEMOLITION.
G. IF CM ENCOUNTERS A HAZARDOUS ENVIRONMENTAL CONDITION OR IF CM OR ANYONE FOR WHOM CM IS RESPONSIBLE CREATES A HAZARDOUS ENVIRONMENTAL CONDITION, CM SHALL IMMEDIATELY: (I) SECURE OR OTHERWISE ISOLATE SUCH CONDITION; (II) STOP ALL WORK IN CONNECTION WITH SUCH CONDITION AND IN ANY AREA AFFECTED THEREBY (EXCEPT IN AN EMERGENCY); AND (III) NOTIFY OWNER AND ENGINEER (AND PROMPTLY THEREAFTER CONFIRM SUCH NOTICE IN WRITING). OWNER SHALL PROMPTLY CONSULT WITH ENGINEER CONCERNING THE NECESSITY FOR OWNER TO RETAIN A QUALIFIED EXPERT TO EVALUATE SUCH CONDITION OR TAKE CORRECTIVE ACTION, IF ANY.
H. UNLESS OTHERWISE SPECIFIED, ALL EXCAVATION IS UNCLASSIFIED AND SHALL INCLUDE ALL MATERIALS ENCOUNTERED.
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J. CM SHALL BE RESPONSIBLE FOR CLEARING AND GRUBBING THE SITE. UNSUITABLE EXCAVATED MATERIALS AND ALL WASTE RESULTING FROM CLEARING AND GRUBBING SHALL BE DISPOSED OFF-SITE.
K. THE REMOVAL OF ANY UTILITY LINE, SERVICE, APPURTENANCE, AND STRUCTURE SHALL BE COORDINATED WITH THE OWNER OF THE RESPECTIVE UTILITY.
L. ALL PAVEMENT REMOVAL CONTIGUOUS TO PAVEMENT REMAINING SHALL BE SAWED IN STRAIGHT LINES TO THE FULL DEPTH OF THE EXISTING PAVEMENT.
M. ALL DEBRIS FROM REMOVAL OPERATIONS SHALL BE REMOVED FROM THE SITE AT THE TIME OF EXCAVATION. STOCKPILING OF DEBRIS SHALL NOT BE PERMITTED.
N. CM SHALL BACKFILL ANY VOIDS RESULTING FROM STRUCTURES, VEGETATION, AND OBJECTS REMOVED. FILL SHALL BE PLACED IN MAXIMUM 6" LIFTS AND COMPACTED TO A A DRY DENSITY OF AT LEAST 98% OF THE MAXIMUM DRY DENSITY OBTAINED BY THE STANDARD COMPACTION TEST (ASTM D-698) AT A WATER CONTENT WITHIN 3% OF THE OPTIMUM.

RELATED SHEETS

A. SEE THE C4 SERIES OF SHEETS FOR UTILITY CONSTRUCTION.
B. SEE THE C6 SERIES OF SHEETS FOR STORM DRAIN CONSTRUCTION.
C. SEE THE C7 SERIES OF SHEETS FOR WATER CONSTRUCTION.
D. SEE THE C8 SERIES OF SHEETS FOR SEWER CONSTRUCTION. THE C8 SEWER CONSTRUCTION SHEETS WILL BE ISSUED IN A FUTURE BID PACKAGE.

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.

0' 20' 40' 80'
SCALE: 1" = 20'

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C1

10/21/2022 A:\2021\5123\103_DSGN\01_DWG\050_CIVIL\C2-DEMO-5123.DWG

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CLIENT:
SEAL OF THE CHEROKEE NATION SEPT. 6, 1839

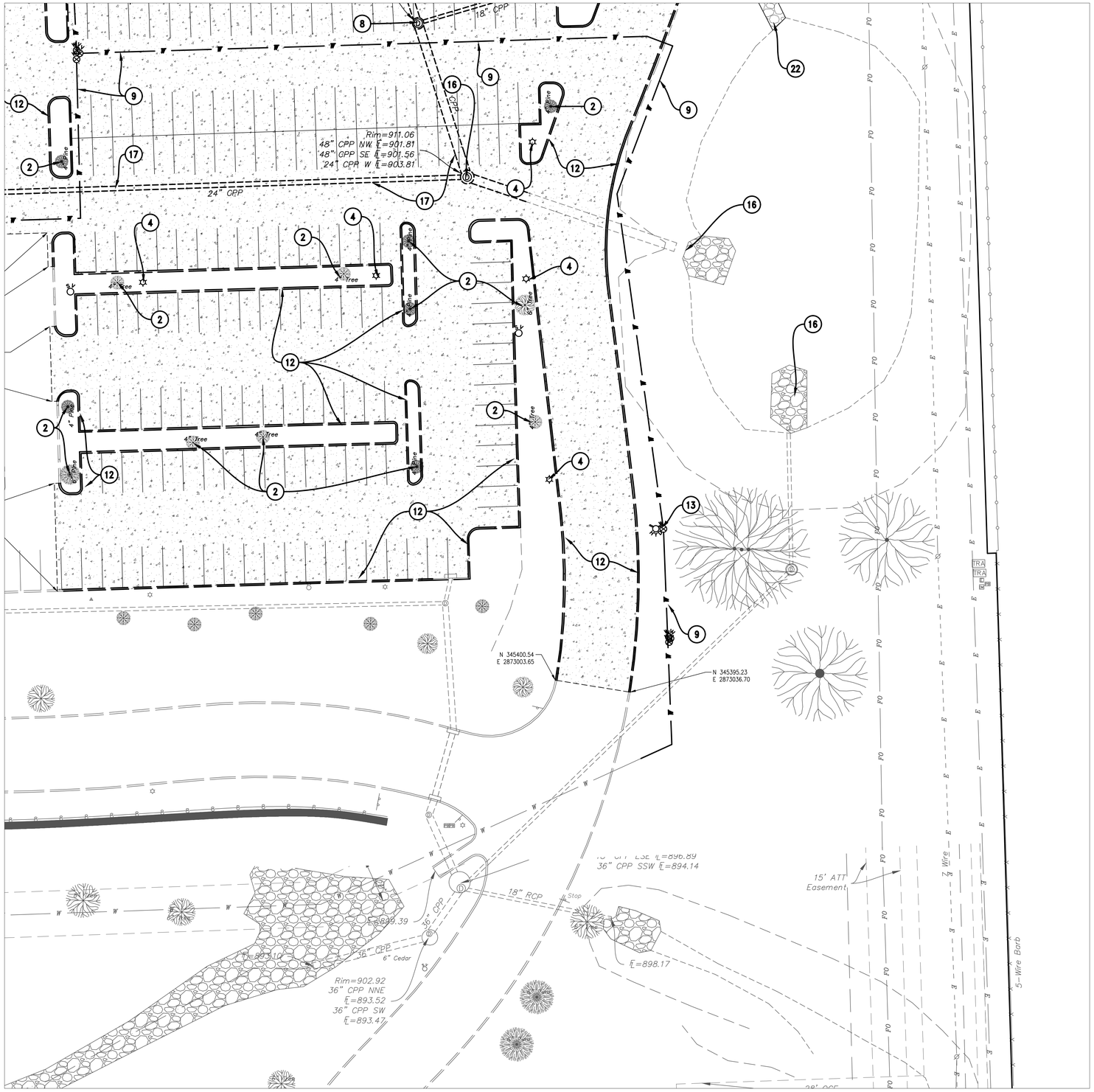
CHEROKEE NATION W.W. HASTINGS REPLACEMENT HOSPITAL
TAHLEQUAH, OKLAHOMA

KEY PLAN:
A1 A2
B1 B2
C1 C2

PROJECT PHASE:
BID PACKAGE 02
(SITE DEMOLITION AND UTILITIES)

REVISIONS

JOB NUMBER: 21-08.21
DATE: 10-21-2022
SHEET NUMBER: **C2-106**
SHEET TITLE: C1 DEMOLITION PLAN



KEYNOTES

1	SAWCUT AND REMOVE CONCRETE PAVEMENT.
2	REMOVE TREE AND ROOTS.
3	SAWCUT AND REMOVE CONCRETE SIDEWALK. CM SHALL SCHEDULE AND COORDINATE THE SIDEWALK REMOVAL WITH OWNER AND THE CONSTRUCTION PHASES TO MAXIMIZE THE PERIOD PEDESTRIANS HAVE USE OF A PAVED ACCESS AND EGRESS FROM THE EXISTING CLINIC.
4	REMOVE LIGHT POLE AND BASE. PRESERVE, PROTECT, AND STORE LIGHT POLE FOR RELOCATION. REFER TO ELECTRICAL SITE PLAN FOR LOCATIONS. THE UNDERGROUND ELECTRICAL CIRCUIT TO THE REMAINING LIGHT POLES SHALL BE RE-ESTABLISHED TO SUPPLY POWER TO THE REMAINING SITE LIGHTS.
5	TEMPORARY BUILDING WILL BE REMOVED BY OWNER.
6	REMOVE STORM DRAIN PIPE. SEE C6 SERIES OF SHEETS FOR STORM SEWER RELOCATION DRAWINGS FOR REMOVAL AND RELOCATION OF STORM DRAIN PIPE AND STRUCTURES.
7	REMOVE SIGN. PRESERVE, PROTECT, AND STORE SIGN TO RELOCATE IN NEW LOCATION. REFER TO SITE SIGNAGE PLAN IN FUTURE BID PACKAGE FOR LOCATIONS.
8	REMOVE STORM DRAIN MANHOLE/INLET/ STRUCTURE. SEE C6 SERIES OF SHEETS FOR STORM SEWER RELOCATION DRAWINGS FOR REMOVAL AND RELOCATION OF STORM DRAIN PIPE AND STRUCTURES.
9	REMOVE WATER LINE. SEE C7 SERIES OF SHEETS FOR CONSTRUCTION DRAWINGS FOR WATER LINE RELOCATION AND NEW WATER LINES.
10	REMOVE UNDERGROUND ELECTRICAL LINE. THE UNDERGROUND ELECTRICAL CIRCUIT TO THE REMAINING LIGHT POLES SHALL BE RE-ESTABLISHED TO SUPPLY POWER TO THE REMAINING SITE LIGHTS.
11	REMOVE BOLLARDS.
12	REMOVE CONCRETE BARRIER CURB AND GUTTER
13	REMOVE FIRE HYDRANT, PRESERVE, PROTECT, AND STORE HYDRANT TO RELOCATE. SEE WATER LINE CONSTRUCTION DRAWINGS FOR WATER LINE RELOCATION AND NEW WATER LINES. SEE C4 UTILITY PLAN SHEETS FOR THE LOCATION OF REUSED HYDRANTS.
14	REMOVE, STORE, AND PRESERVE BICYCLE RACKS FOR REUSE.
15	REMOVE COMMUNICATION CONDUITS FROM THE BUILDING FOOTPRINT. CONDUITS ABANDONED IN PLACE SHALL BE FILLED WITH FLOWABLE FILL MATERIAL. SEE C4 SERIES OF UTILITY PLANS FOR NEW COMMUNICATION CONDUITS AND PULL-BOXES.
16	EXISTING STORM DRAIN MANHOLE/INLET/ STRUCTURE TO BE PRESERVED. SEE C6 SERIES OF SHEETS FOR STORM SEWER RELOCATION DRAWINGS.
17	REMOVE PORTIONS OF STORM DRAIN PIPE. REFER TO C6 SERIES OF SHEETS FOR STORM DRAIN RELOCATION DRAWINGS.
18	PROTECT BOLLARDS.
19	PRESERVE AND PROTECT EXISTING FIBER PULL BOX AND CONDUITS INTO CLINIC.
20	PROPANE TANK WILL BE REMOVED BY OWNER.
21	SEE BID PACKAGE 1 FOR DEMOLITION, UTILITY RELOCATION, NEW UTILITIES AND SITE WORK CONSTRUCTION FOR THE NORTH PARKING LOT.
22	REMOVE STONE RIP RAP AND GEOTEXTILE FILTER FABRIC.

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0' 20' 40' 80'
SCALE: 1" = 20'

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C2

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CLIENT:
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SEPT. 6, 1839

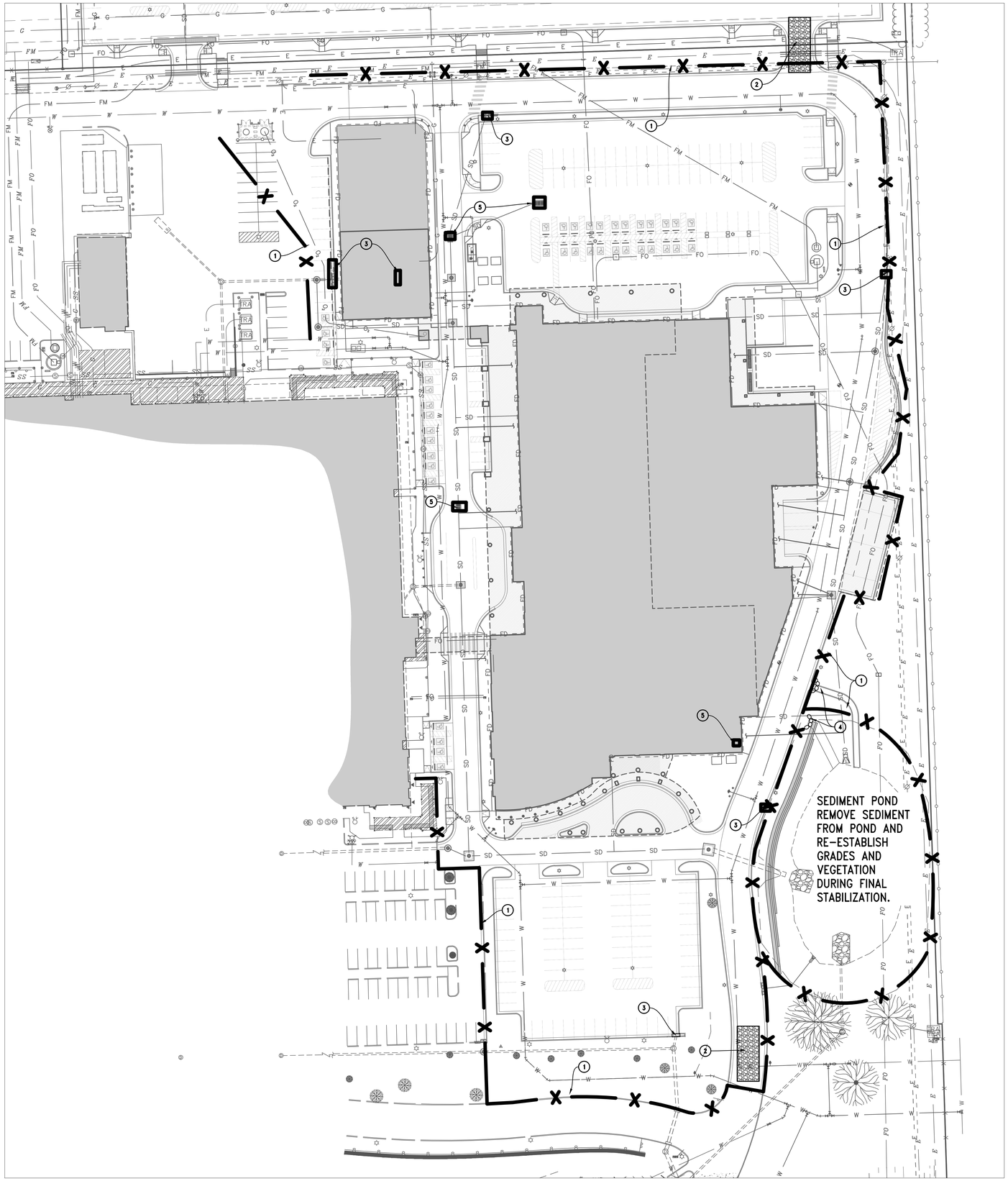
CHEROKEE NATION
W.W. HASTINGS REPLACEMENT HOSPITAL
TAHLEQUAH, OKLAHOMA

KEY PLAN:
A1 A2
B1 B2
C1 C2

PROJECT PHASE:
BID PACKAGE 02
(SITE DEMOLITION AND UTILITIES)

REVISIONS

JOB NUMBER: 21-08.21
DATE: 10-21-2022
SHEET NUMBER: **C2-107**
SHEET TITLE: C2 DEMOLITION PLAN



KEYNOTES

1	INSTALL SILT FENCE. SEE DETAIL 1 SHEET C2-750 BID PACKAGE 1.
2	INSTALL TEMPORARY CONSTRUCTION ENTRANCE. SEE DETAIL 2 SHEET C2-750 BID PACKAGE 1.
3	INSTALL CURB INLET SEDIMENT BARRIER, SEE DETAIL 3 SHEET C2-750 BID PACKAGE 1.
4	INSTALL ROCK BAG CHECK DAM, SEE DETAIL 4 SHEET C2-750 BID PACKAGE 1.
5	INSTALL DROP INLET SEDIMENT BAG. SEE DETAIL 1 SHEET C2-751.

0' 40' 80' 160'

SCALE: 1" = 40'

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TAHLEQUAH, OKLAHOMA

KEY PLAN:

PROJECT PHASE:
BID PACKAGE 02
(SITE DEMOLITION AND UTILITIES)

REVISIONS

JOB NUMBER: 21-08.21
DATE: 10-21-2022
SHEET NUMBER: **C2-701**
SHEET TITLE: EROSION CONTROL PLAN - HOSPITAL

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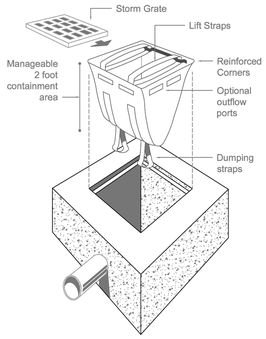

ISOMETRIC ASSEMBLY

NOTES:

1. Remove the grate from the catch basin.

2. Stand grate on end. Move the top lifting straps out of the way and place grate into the unit so that the grate is below the top straps and above the lower straps. The grate should be cradled between the upper and lower straps.

3. Holding the lifting straps, insert the grate into the inlet, being careful that the grate remains in place and being careful not to damage the unit.

4. Remove all accumulated sediment and debris from the vicinity of unit after each storm event.

5. After each storm event and at regular intervals, look into the unit. If the unit is more than 1/3 full of accumulated sediment, the unit must be emptied.

6. To empty the unit, using the lifting straps lift the unit out of the inlet and remove the grate. Transport the unit to an appropriate location for removal of contents. Holding the dumping straps on the bottom of the unit, turn the unit upside down, emptying the contents. Reinstall unit as above.

1 DROP INLET SEDIMENT BAG

Scale: 1" = 1'

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KEY PLAN:

PROJECT PHASE:
BID PACKAGE 02
(SITE DEMOLITION AND UTILITIES)

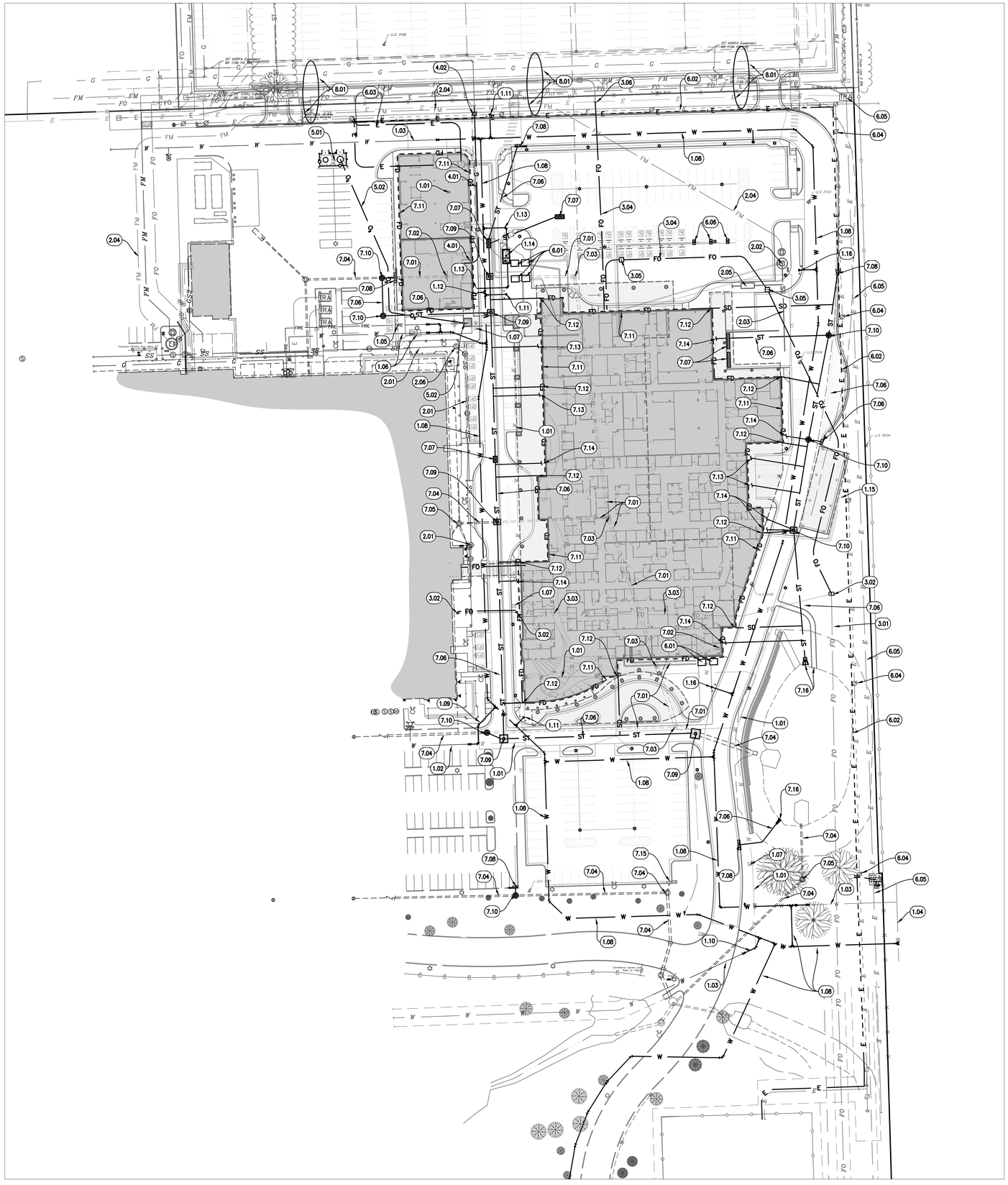
REVISIONS

JOB NUMBER: 21-08.21

DATE: 10-21-2022

SHEET NUMBER: **C2-751**

SHEET TITLE: EROSION CONTROL DETAILS



KEYNOTES

1.01	EXISTING WATER DISTRIBUTION LINE TO REMOVE.
1.02	EXISTING 6-IN WATER DISTRIBUTION LINE TO PRESERVE.
1.03	EXISTING 12-IN PVC WATER DISTRIBUTION LINE TO PRESERVE.
1.04	EXISTING 16-IN DI WATER DISTRIBUTION LINE TO PRESERVE.
1.05	EXISTING 8-IN FIRE LINE TO CLINIC TO PRESERVE.
1.06	EXISTING 6-IN WATER SERVICE AND METER VAULT TO CLINIC TO PRESERVE.
1.07	EXISTING FIRE HYDRANT TO REMOVE.
1.08	INSTALL 16-IN PLASTIC WRAPPED DUCTILE IRON WATER DISTRIBUTION LINE.
1.09	INSTALL 6-IN SDR21 CLASS 200 PVC WATER DISTRIBUTION LINE.
1.10	INSTALL 12-IN SDR21 CLASS 200 PVC WATER DISTRIBUTION LINE.
1.11	INSTALL FIRE HYDRANT WITH 6-IN SDR21 CLASS 200 PVC WATER PIPE.
1.12	INSTALL 8-IN FIRE LINE TO CENTRAL ENERGY PLANT. REFER TO FIRE PLANS IN FUTURE BID PACKAGE FOR CONTINUATION.
1.13	INSTALL 6-IN WATER SERVICE LINE TO CENTRAL ENGERY PLANT. REFER TO PLUMBING PLANS IN FUTURE BID PACKAGE FOR CONTINUATION.
1.14	INSTALL CONCRETE VAULT FOR 6-IN WATER METER. TOP ELEVATION OF VAULT LID SHALL BE EVEN WITH SIDEWALK TO MEET A.D.A. REQUIREMENTS.
1.15	INSTALL 1-IN WATER LINE FROM HOSPITAL TO FROST PROOF HYDRANT. REFER TO PLUMBING PLANS IN FUTURE BID PACKAGE.
1.16	INSTALL FIRE HYDRANT SALVAGED FROM DEMOLITION. USE NEW PIPE, VALVES, FITTINGS, BENDS, BOLTS, AND RESTRAINTS.
2.01	EXISTING SANITARY SEWER TO PRESERVE.
2.02	PROPOSED SEWER LIFT STATION. NOT INCLUDED IN BID PACKAGE 2.
2.03	PROPOSED GRAVITY SEWER. NOT INCLUDED IN BID PACKAGE 2.
2.04	PROPOSED SEWER FORCE MAIN TO CLINIC LIFT STATION. NOT INCLUDED IN BID PACKAGE 1.
2.05	PROPOSED GREASE TRAP. NOT INCLUDED IN BID PACKAGE 2.
2.06	EXISTING SEWER MANHOLE TO PRESERVE.
3.01	EXISTING FIBER OPTIC CONDUITS TO PRESERVE.
3.02	EXISTING FIBER OPTIC PULLBOX TO PRESERVE.
3.03	EXISTING FIBER OPTIC CONDUITS TO REMOVE.
3.04	INSTALL (3) 4-IN FIBER OPTIC CONDUITS. BURY CONDUITS WITH A MINIMUM 3-FT COVER BELOW FINAL GRADE. EMBED CONDUIT WITH SAND OR ROCK SCREENINGS A MINIMUM 6-IN ON ALL SIDES.
3.05	INSTALL FIBER OPTIC PULL BOX WITH LID RATED FOR HEAVY DUTY TRAFFIC.
3.06	CONNECT CONDUITS WITH FIBER OPTIC CONDUITS IN BID PACKAGE 1.

KEYNOTES

4.01	INSTALL GAS SERVICE LINE FOR 50,000-MBTU SERVICE PER NOPFA REQUIREMENTS.
4.02	INSTALL GAS METER FOR 50,000-MBTU SERVICE. CONNECT METER TO 3-IN NOPFA GAS MAIN SHOWN IN BID PACKAGE 1.
5.01	OXYGEN STORAGE TANK LOCATION. NOT INCLUDED IN BID PACKAGE 2.
5.02	INSTALL 2-IN OXYGEN LINE FROM STORAGE TANK TO UTILITY BRIDGE COLUMN.
6.01	ELECTRIC TRANSFORMER LOCATION. REFER TO ELECTRICAL PLANS IN FUTURE BID PACKAGE.
6.02	NEW OVERHEAD ELECTRIC DISTRIBUTION LINE FROM SUBSTATION. NOT IN BID PACKAGE 2.
6.03	UNDERGROUND ELECTRIC DUCT BANK FROM DISTRIBUTION POLE TO MECHANICAL YARD. NOT INCLUDED IN BID PACKAGE 2.
6.04	EXISTING OVERHEAD ELECTRIC DISTRIBUTION LINE TO PRESERVE.
6.05	EXISTING UNDERGROUND LREC ELECTRIC DISTRIBUTION AND FIBER OPTIC LINES TO PRESERVE.
6.06	INSTALL CONDUITS TO ELECTRIC VEHICLE CHARGING STATIONS. CHARGING STATIONS NOT INCLUDED IN BID PACKAGE 1. SEE SHEET C4-801.
7.01	EXISTING STORM DRAIN PIPE TO REMOVE.
7.02	EXISTING STORM DRAIN INLET TO REMOVE.
7.03	EXISTING STORM DRAIN JUNCTION BOX TO REMOVE.
7.04	EXISTING STORM DRAIN PIPE TO PRESERVE.
7.05	EXISTING STORM DRAIN MANHOLE TO PRESERVE.
7.06	INSTALL STORM DRAIN PIPE. SEE C6 SERIES OF SHEETS.
7.07	INSTALL STORM DRAIN AREA INLET. SEE C6 SERIES OF SHEETS.
7.08	INSTALL STORM DRAIN COMBINATION CURB AND GRATE INLET. SEE C6 SERIES OF SHEETS.
7.09	INSTALL STORM DRAIN JUNCTION BOX. SEE C6 SERIES OF SHEETS.
7.10	INSTALL STORM DRAIN MANHOLE. SEE C6 SERIES OF SHEETS.
7.11	INSTALL FOUNDATION DRAIN AROUND PERIMETER OF BUILDING. SEE FOUNDATION DRAIN PLAN SHEET C6-104.
7.12	6-IN HDPE SOLID WALL PIPE CONNECTING FOUNDATION DRAIN TO STORM SEWER. SEE FOUNDATION DRAIN PLAN SHEET C6-104.
7.13	INSTALL 6-IN SCH-40 PVC ROOF DRAIN PIPE. REFER TO SHEET C6-103 FOR PLAN. REFER TO PLUMBING DRAWINGS FOR BUILDING CONNECTIONS. REFER TO PLUMBING PLANS TO BE ISSUED IN FUTURE BID PACKAGE.
7.14	INSTALL 8-IN SCH-40 PVC ROOF DRAIN PIPE. REFER TO SHEET C6-103 FOR PLAN. REFER TO PLUMBING DRAWINGS FOR BUILDING CONNECTIONS. REFER TO PLUMBING TO BE ISSUED IN FUTURE BID PACKAGE.
7.15	GRATE AND CURB INLET OF EXISTING COMBINATION CURB AND GUTTER INLET SHALL BE ADJUSTED TO FINAL SURFACE GRADE.
7.16	INSTALL 24-IN LAYER OF 12-IN STONE RIP-RAP WITH GEOTEXTILE FILTER FABRIC UNDERLAY.
8.01	SEE BID PACKAGE 1 FOR UNDERGROUND UTILITY WORK NORTH OF THE HOSPITAL DRIVE.

GENERAL NOTES

A. SEE ALSO DEMOLITION PLAN SHEETS C2-101 THROUGH C2-107 FOR UTILITY DEMOLITION COORDINATION.
B. SEE THE C6 SERIES OF SHEETS FOR STORM DRAIN PLANS, PROFILES, AND DETAILS.
C. SEE THE C7 SERIES OF SHEETS FOR WATER PLANS, PROFILES, AND DETAILS.
D. COORDINATE GAS SERVICE WITH NOPFA. VERIFY GAS DEMAND WITH MECHANICAL PLANS.
E. COORDINATE INSTALLATION OF WATER DISTRIBUTION WITH THE TAHLEQUAH PUBLIC WORKS AUTHORITY.
F. COORDINATE OXYGEN SUPPLY SERVICE LINE WITH THE FACILITY'S OXYGEN GAS SUPPLIER.
G. HYDRONIC PIPES, FIRE SPRINKLER SUPPLY, MEDICAL GAS, VACUUM, OXYGEN AND LOW VOLTAGE CONDUITS FROM THE CENTRAL ENERGY PLANT WILL BE LOCATED IN THE UTILITY BRIDGE BETWEEN THE ENERGY PLANT AND THE HOSPITAL. THIS WILL BE ISSUED IN A FUTURE BID PACKAGE.

EXISTING UTILITY LEGEND

COMMUNICATIONS FIBER – FO
ELECTRIC OVERHEAD – E
ELECTRIC UNDERGROUND – E
NATURAL GAS – G
OXYGEN GAS – O_X
SEWER – SS
STORM SEWER – ST
WATER – W
FOUNDATION DRAIN – FD

UTILITY LEGEND

COMMUNICATIONS FIBER – FO
ELECTRIC OVERHEAD – E
ELECTRIC UNDERGROUND – E
NATURAL GAS – G
OXYGEN GAS – O_X
SEWER – SS
STORM SEWER – ST
WATER – W
FOUNDATION DRAIN – FD

0' 50' 100' 200'
SCALE: 1" = 50'

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.

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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COREY W. LIPPS
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SEPT. 6, 1839

CHEROKEE NATION
W.W. HASTINGS REPLACEMENT HOSPITAL
TAHLEQUAH, OKLAHOMA

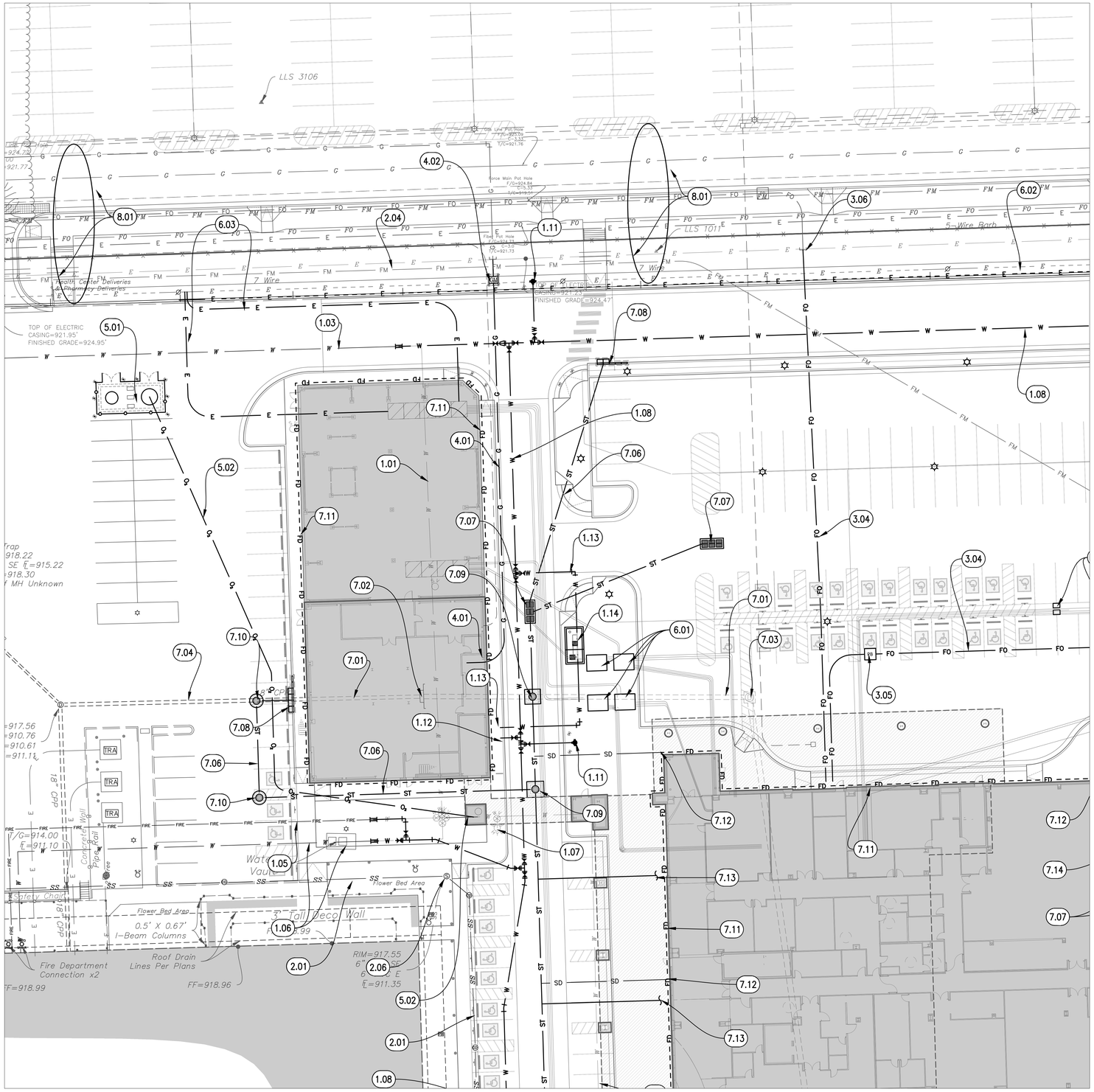
KEY PLAN:
A1 A2
B1 B2
C1 C2

PROJECT PHASE:
BID PACKAGE 02
(SITE DEMOLITION AND UTILITIES)

REVISIONS

JOB NUMBER: 21-08.21
DATE: 10-21-2022
SHEET NUMBER: C4-101
SHEET TITLE: OVERALL UTILITY VIEW

10/21/2022 A:\2021\5123.21\03_DSGN\01_DWG\050_CIVIL\C4-UTIL-5123.DWG



KEYNOTES

1.01	EXISTING WATER DISTRIBUTION LINE TO REMOVE.
1.02	EXISTING 6-IN WATER DISTRIBUTION LINE TO PRESERVE.
1.03	EXISTING 12-IN PVC WATER DISTRIBUTION LINE TO PRESERVE.
1.04	EXISTING 16-IN DI WATER DISTRIBUTION LINE TO PRESERVE.
1.05	EXISTING 8-IN FIRE LINE TO CLINIC TO PRESERVE.
1.06	EXISTING 6-IN WATER SERVICE AND METER VAULT TO CLINIC TO PRESERVE.
1.07	EXISTING FIRE HYDRANT TO REMOVE.
1.08	INSTALL 16-IN PLASTIC WRAPPED DUCTILE IRON WATER DISTRIBUTION LINE.
1.09	INSTALL 6-IN SDR21 CLASS 200 PVC WATER DISTRIBUTION LINE.
1.10	INSTALL 12-IN SDR21 CLASS 200 PVC WATER DISTRIBUTION LINE.
1.11	INSTALL FIRE HYDRANT WITH 6-IN SDR21 CLASS 200 PVC WATER PIPE.
1.12	INSTALL 8-IN FIRE LINE TO CENTRAL ENERGY PLANT. REFER TO FIRE PLANS IN FUTURE BID PACKAGE FOR CONTINUATION.
1.13	INSTALL 6-IN WATER SERVICE LINE TO CENTRAL ENGERY PLANT. REFER TO PLUMBING PLANS IN FUTURE BID PACKAGE FOR CONTINUATION.
1.14	INSTALL CONCRETE VAULT FOR 6-IN WATER METER. TOP ELEVATION OF VAULT LID SHALL BE EVEN WITH SIDEWALK TO MEET A.D.A. REQUIREMENTS.
1.15	INSTALL 1-IN WATER LINE FROM HOSPITAL TO FROST PROOF HYDRANT. REFER TO PLUMBING PLANS IN FUTURE BID PACKAGE.
1.16	INSTALL FIRE HYDRANT SALVAGED FROM DEMOLITION. USE NEW PIPE, VALVES, FITTINGS, BENDS, BOLTS, AND RESTRAINTS.
2.01	EXISTING SANITARY SEWER TO PRESERVE.
2.02	PROPOSED SEWER LIFT STATION. NOT INCLUDED IN BID PACKAGE 2.
2.03	PROPOSED GRAVITY SEWER. NOT INCLUDED IN BID PACKAGE 2.
2.04	PROPOSED SEWER FORCE MAIN TO CLINIC LIFT STATION. NOT INCLUDED IN BID PACKAGE 1.
2.05	PROPOSED GREASE TRAP. NOT INCLUDED IN BID PACKAGE 2.
2.06	EXISTING SEWER MANHOLE TO PRESERVE.
3.01	EXISTING FIBER OPTIC CONDUITS TO PRESERVE.
3.02	EXISTING FIBER OPTIC PULLBOX TO PRESERVE.
3.03	EXISTING FIBER OPTIC CONDUITS TO REMOVE.
3.04	INSTALL (3) 4-IN FIBER OPTIC CONDUITS. BURY CONDUITS WITH A MINIMUM 3-FT COVER BELOW FINAL GRADE. EMBED CONDUIT WITH SAND OR ROCK SCREENINGS A MINIMUM 6-IN ON ALL SIDES.
3.05	INSTALL FIBER OPTIC PULL BOX WITH LID RATED FOR HEAVY DUTY TRAFFIC.
3.06	CONNECT CONDUITS WITH FIBER OPTIC CONDUITS IN BID PACKAGE 1.

KEYNOTES

4.01	INSTALL GAS SERVICE LINE FOR 50,000-MBTU SERVICE PER NOPFA REQUIREMENTS.
4.02	INSTALL GAS METER FOR 50,000-MBTU SERVICE. CONNECT METER TO 3-IN NOPFA GAS MAIN SHOWN IN BID PACKAGE 1.
5.01	OXYGEN STORAGE TANK LOCATION. NOT INCLUDED IN BID PACKAGE 2.
5.02	INSTALL 2-IN OXYGEN LINE FROM STORAGE TANK TO UTILITY BRIDGE COLUMN.
6.01	ELECTRIC TRANSFORMER LOCATION. REFER TO ELECTRICAL PLANS IN FUTURE BID PACKAGE.
6.02	NEW OVERHEAD ELECTRIC DISTRIBUTION LINE FROM SUBSTATION. NOT IN BID PACKAGE 2.
6.03	UNDERGROUND ELECTRIC DUCT BANK FROM DISTRIBUTION POLE TO MECHANICAL YARD. NOT INCLUDED IN BID PACKAGE 2.
6.04	EXISTING OVERHEAD ELECTRIC DISTRIBUTION LINE TO PRESERVE.
6.05	EXISTING UNDERGROUND LREC ELECTRIC DISTRIBUTION AND FIBER OPTIC LINES TO PRESERVE.
6.06	INSTALL CONDUITS TO ELECTRIC VEHICLE CHARGING STATIONS. CHARGING STATIONS NOT INCLUDED IN BID PACKAGE 1. SEE SHEET C4-801.
7.01	EXISTING STORM DRAIN PIPE TO REMOVE.
7.02	EXISTING STORM DRAIN INLET TO REMOVE.
7.03	EXISTING STORM DRAIN JUNCTION BOX TO REMOVE.
7.04	EXISTING STORM DRAIN PIPE TO PRESERVE.
7.05	EXISTING STORM DRAIN MANHOLE TO PRESERVE.
7.06	INSTALL STORM DRAIN PIPE. SEE C6 SERIES OF SHEETS.
7.07	INSTALL STORM DRAIN AREA INLET. SEE C6 SERIES OF SHEETS.
7.08	INSTALL STORM DRAIN COMBINATION CURB AND GRATE INLET. SEE C6 SERIES OF SHEETS.
7.09	INSTALL STORM DRAIN JUNCTION BOX. SEE C6 SERIES OF SHEETS.
7.10	INSTALL STORM DRAIN MANHOLE. SEE C6 SERIES OF SHEETS.
7.11	INSTALL FOUNDATION DRAIN AROUND PERIMETER OF BUILDING. SEE FOUNDATION DRAIN PLAN SHEET C6-104.
7.12	6-IN HDPE SOLID WALL PIPE CONNECTING FOUNDATION DRAIN TO STORM SEWER. SEE FOUNDATION DRAIN PLAN SHEET C6-104.
7.13	INSTALL 6-IN SCH-40 PVC ROOF DRAIN PIPE. REFER TO SHEET C6-103 FOR PLAN. REFER TO PLUMBING DRAWINGS FOR BUILDING CONNECTIONS. REFER TO PLUMBING PLANS TO BE ISSUED IN FUTURE BID PACKAGE.
7.14	INSTALL 8-IN SCH-40 PVC ROOF DRAIN PIPE. REFER TO SHEET C6-103 FOR PLAN. REFER TO PLUMBING DRAWINGS FOR BUILDING CONNECTIONS. REFER TO PLUMBING TO BE ISSUED IN FUTURE BID PACKAGE.
7.15	GRATE AND CURB INLET OF EXISTING COMBINATION CURB AND GUTTER INLET SHALL BE ADJUSTED TO FINAL SURFACE GRADE.
7.16	INSTALL 24-IN LAYER OF 12-IN STONE RIP-RAP WITH GEOTEXTILE FILTER FABRIC UNDERLAY.
8.01	SEE BID PACKAGE 1 FOR UNDERGROUND UTILITY WORK NORTH OF THE HOSPITAL DRIVE.

GENERAL NOTES

A. SEE ALSO DEMOLITION PLAN SHEETS C2-101 THROUGH C2-107 FOR UTILITY DEMOLITION COORDINATION.
B. SEE THE C6 SERIES OF SHEETS FOR STORM DRAIN PLANS, PROFILES, AND DETAILS.
C. SEE THE C7 SERIES OF SHEETS FOR WATER PLANS, PROFILES, AND DETAILS.
D. COORDINATE GAS SERVICE WITH NOPFA. VERIFY GAS DEMAND WITH MECHANICAL PLANS.
E. COORDINATE INSTALLATION OF WATER DISTRIBUTION WITH THE TAHLEQUAH PUBLIC WORKS AUTHORITY.
F. COORDINATE OXYGEN SUPPLY SERVICE LINE WITH THE FACILITY'S OXYGEN GAS SUPPLIER.
G. HYDRONIC PIPES, FIRE SPRINKLER SUPPLY, MEDICAL GAS, VACUUM, OXYGEN AND LOW VOLTAGE CONDUITS FROM THE CENTRAL ENERGY PLANT WILL BE LOCATED IN THE UTILITY BRIDGE BETWEEN THE ENERGY PLANT AND THE HOSPITAL. THIS WILL BE ISSUED IN A FUTURE BID PACKAGE.

EXISTING UTILITY LEGEND

COMMUNICATIONS FIBER – FO
ELECTRIC OVERHEAD – E
ELECTRIC UNDERGROUND – E
NATURAL GAS – G
OXYGEN GAS – O_2
SEWER – SS
STORM SEWER
WATER – W
FOUNDATION DRAIN – FD

NEW UTILITY LEGEND

COMMUNICATIONS FIBER – FO
ELECTRIC OVERHEAD – E
ELECTRIC UNDERGROUND – E
NATURAL GAS – G
OXYGEN GAS – O_2
SEWER – SS
STORM SEWER – ST
WATER – W
FOUNDATION DRAIN – FD

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.

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.

N

0' 20' 40' 80'
SCALE: 1" = 20'

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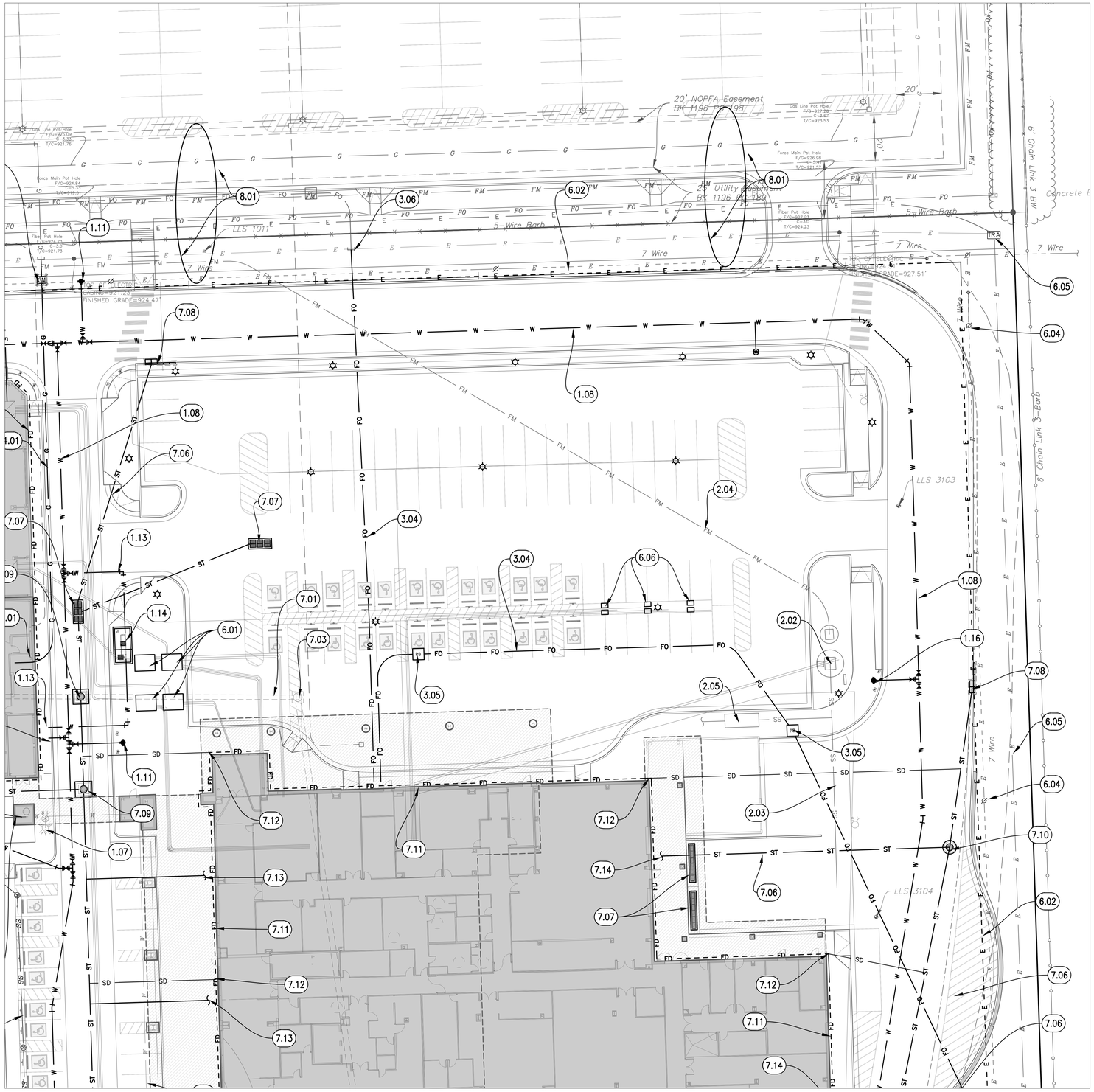
CHEROKEE NATION
W.W. HASTINGS REPLACEMENT HOSPITAL
TAHLEQUAH, OKLAHOMA

KEY PLAN:
A1 A2
B1 B2
C1 C2

PROJECT PHASE:
BID PACKAGE 02
(SITE DEMOLITION AND UTILITIES)

REVISIONS

JOB NUMBER: 21-08.21
DATE: 10-21-2022
SHEET NUMBER: **C4-102**
SHEET TITLE: A1 UTILITIES



KEYNOTES

1.01	EXISTING WATER DISTRIBUTION LINE TO REMOVE.
1.02	EXISTING 6-IN WATER DISTRIBUTION LINE TO PRESERVE.
1.03	EXISTING 12-IN PVC WATER DISTRIBUTION LINE TO PRESERVE.
1.04	EXISTING 16-IN DI WATER DISTRIBUTION LINE TO PRESERVE.
1.05	EXISTING 8-IN FIRE LINE TO CLINIC TO PRESERVE.
1.06	EXISTING 6-IN WATER SERVICE AND METER VAULT TO CLINIC TO PRESERVE.
1.07	EXISTING FIRE HYDRANT TO REMOVE.
1.08	INSTALL 16-IN PLASTIC WRAPPED DUCTILE IRON WATER DISTRIBUTION LINE.
1.09	INSTALL 6-IN SDR21 CLASS 200 PVC WATER DISTRIBUTION LINE.
1.10	INSTALL 12-IN SDR21 CLASS 200 PVC WATER DISTRIBUTION LINE.
1.11	INSTALL FIRE HYDRANT WITH 6-IN SDR21 CLASS 200 PVC WATER PIPE.
1.12	INSTALL 8-IN FIRE LINE TO CENTRAL ENERGY PLANT. REFER TO FIRE PLANS IN FUTURE BID PACKAGE FOR CONTINUATION.
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2.02	PROPOSED SEWER LIFT STATION. NOT INCLUDED IN BID PACKAGE 2.
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3.05	INSTALL FIBER OPTIC PULL BOX WITH LID RATED FOR HEAVY DUTY TRAFFIC.
3.06	CONNECT CONDUITS WITH FIBER OPTIC CONDUITS IN BID PACKAGE 1.

KEYNOTES

4.01	INSTALL GAS SERVICE LINE FOR 50,000-MBTU SERVICE PER NOPFA REQUIREMENTS.
4.02	INSTALL GAS METER FOR 50,000-MBTU SERVICE. CONNECT METER TO 3-IN NOPFA GAS MAIN SHOWN IN BID PACKAGE 1.
5.01	OXYGEN STORAGE TANK LOCATION. NOT INCLUDED IN BID PACKAGE 2.
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6.02	NEW OVERHEAD ELECTRIC DISTRIBUTION LINE FROM SUBSTATION. NOT IN BID PACKAGE 2.
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7.10	INSTALL STORM DRAIN MANHOLE. SEE C6 SERIES OF SHEETS.
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7.13	INSTALL 6-IN SCH-40 PVC ROOF DRAIN PIPE. REFER TO SHEET C6-103 FOR PLAN. REFER TO PLUMBING DRAWINGS FOR BUILDING CONNECTIONS. REFER TO PLUMBING PLANS TO BE ISSUED IN FUTURE BID PACKAGE.
7.14	INSTALL 8-IN SCH-40 PVC ROOF DRAIN PIPE. REFER TO SHEET C6-103 FOR PLAN. REFER TO PLUMBING DRAWINGS FOR BUILDING CONNECTIONS. REFER TO PLUMBING TO BE ISSUED IN FUTURE BID PACKAGE.
7.15	GRATE AND CURB INLET OF EXISTING COMBINATION CURB AND GUTTER INLET SHALL BE ADJUSTED TO FINAL SURFACE GRADE.
7.16	INSTALL 24-IN LAYER OF 12-IN STONE RIP-RAP WITH GEOTEXTILE FILTER FABRIC UNDERLAY.
8.01	SEE BID PACKAGE 1 FOR UNDERGROUND UTILITY WORK NORTH OF THE HOSPITAL DRIVE.

GENERAL NOTES

A. SEE ALSO DEMOLITION PLAN SHEETS C2-101 THROUGH C2-107 FOR UTILITY DEMOLITION COORDINATION.
B. SEE THE C6 SERIES OF SHEETS FOR STORM DRAIN PLANS, PROFILES, AND DETAILS.
C. SEE THE C7 SERIES OF SHEETS FOR WATER PLANS, PROFILES, AND DETAILS.
D. COORDINATE GAS SERVICE WITH NOPFA. VERIFY GAS DEMAND WITH MECHANICAL PLANS.
E. COORDINATE INSTALLATION OF WATER DISTRIBUTION WITH THE TAHLEQUAH PUBLIC WORKS AUTHORITY.
F. COORDINATE OXYGEN SUPPLY SERVICE LINE WITH THE FACILITY'S OXYGEN GAS SUPPLIER.
G. HYDRONIC PIPES, FIRE SPRINKLER SUPPLY, MEDICAL GAS, VACUUM, OXYGEN AND LOW VOLTAGE CONDUITS FROM THE CENTRAL ENERGY PLANT WILL BE LOCATED IN THE UTILITY BRIDGE BETWEEN THE ENERGY PLANT AND THE HOSPITAL. THIS WILL BE ISSUED IN A FUTURE BID PACKAGE.

EXISTING UTILITY LEGEND

COMMUNICATIONS FIBER — FO —
ELECTRIC OVERHEAD — E —
ELECTRIC UNDERGROUND — E —
NATURAL GAS — G —
OXYGEN GAS — O_2 —
SEWER — SS —
STORM SEWER — - - -
WATER — W —
FOUNDATION DRAIN — FD - - -

NEW UTILITY LEGEND

COMMUNICATIONS FIBER — FO —
ELECTRIC OVERHEAD — E —
ELECTRIC UNDERGROUND — E —
NATURAL GAS — G —
OXYGEN GAS — O_2 —
SEWER — SS —
STORM SEWER — ST —
WATER — W —
FOUNDATION DRAIN — FD - - -

UTILITY WARNING:
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0' 20' 40' 80'
SCALE: 1" = 20'

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A2

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SEPT. 6, 1839

CHEROKEE NATION
W.W. HASTINGS REPLACEMENT HOSPITAL
TAHLEQUAH, OKLAHOMA

KEY PLAN:
A1 A2
B1 B2
C1 C2

PROJECT PHASE:
BID PACKAGE 02
(SITE DEMOLITION AND UTILITIES)

REVISIONS

JOB NUMBER: 21-08.21
DATE: 10-21-2022
SHEET NUMBER: C4-103
SHEET TITLE: A2 UTILITIES

KEYNOTES

1.01	EXISTING WATER DISTRIBUTION LINE TO REMOVE.
1.02	EXISTING 6-IN WATER DISTRIBUTION LINE TO PRESERVE.
1.03	EXISTING 12-IN PVC WATER DISTRIBUTION LINE TO PRESERVE.
1.04	EXISTING 16-IN DI WATER DISTRIBUTION LINE TO PRESERVE.
1.05	EXISTING 8-IN FIRE LINE TO CLINIC TO PRESERVE.
1.06	EXISTING 6-IN WATER SERVICE AND METER VAULT TO CLINIC TO PRESERVE.
1.07	EXISTING FIRE HYDRANT TO REMOVE.
1.08	INSTALL 16-IN PLASTIC WRAPPED DUCTILE IRON WATER DISTRIBUTION LINE.
1.09	INSTALL 6-IN SDR21 CLASS 200 PVC WATER DISTRIBUTION LINE.
1.10	INSTALL 12-IN SDR21 CLASS 200 PVC WATER DISTRIBUTION LINE.
1.11	INSTALL FIRE HYDRANT WITH 6-IN SDR21 CLASS 200 PVC WATER PIPE.
1.12	INSTALL 8-IN FIRE LINE TO CENTRAL ENERGY PLANT. REFER TO FIRE PLANS IN FUTURE BID PACKAGE FOR CONTINUATION.
1.13	INSTALL 6-IN WATER SERVICE LINE TO CENTRAL ENGERY PLANT. REFER TO PLUMBING PLANS IN FUTURE BID PACKAGE FOR CONTINUATION.
1.14	INSTALL CONCRETE VAULT FOR 6-IN WATER METER. TOP ELEVATION OF VAULT LID SHALL BE EVEN WITH SIDEWALK TO MEET A.D.A. REQUIREMENTS.
1.15	INSTALL 1-IN WATER LINE FROM HOSPITAL TO FROST PROOF HYDRANT. REFER TO PLUMBING PLANS IN FUTURE BID PACKAGE.
1.16	INSTALL FIRE HYDRANT SALVAGED FROM DEMOLITION. USE NEW PIPE, VALVES, FITTINGS, BENDS, BOLTS, AND RESTRAINTS.
2.01	EXISTING SANITARY SEWER TO PRESERVE.
2.02	PROPOSED SEWER LIFT STATION. NOT INCLUDED IN BID PACKAGE 2.
2.03	PROPOSED GRAVITY SEWER. NOT INCLUDED IN BID PACKAGE 2.
2.04	PROPOSED SEWER FORCE MAIN TO CLINIC LIFT STATION. NOT INCLUDED IN BID PACKAGE 1.
2.05	PROPOSED GREASE TRAP. NOT INCLUDED IN BID PACKAGE 2.
2.06	EXISTING SEWER MANHOLE TO PRESERVE.
3.01	EXISTING FIBER OPTIC CONDUITS TO PRESERVE.
3.02	EXISTING FIBER OPTIC PULLBOX TO PRESERVE.
3.03	EXISTING FIBER OPTIC CONDUITS TO REMOVE.
3.04	INSTALL (3) 4-IN FIBER OPTIC CONDUITS. BURY CONDUITS WITH A MINIMUM 3-FT COVER BELOW FINAL GRADE. EMBED CONDUIT WITH SAND OR ROCK SCREENINGS A MINIMUM 6-IN ON ALL SIDES.
3.05	INSTALL FIBER OPTIC PULL BOX WITH LID RATED FOR HEAVY DUTY TRAFFIC.
3.06	CONNECT CONDUITS WITH FIBER OPTIC CONDUITS IN BID PACKAGE 1.

KEYNOTES

4.01	INSTALL GAS SERVICE LINE FOR 50,000-MBTU SERVICE PER NOPFA REQUIREMENTS.
4.02	INSTALL GAS METER FOR 50,000-MBTU SERVICE. CONNECT METER TO 3-IN NOPFA GAS MAIN SHOWN IN BID PACKAGE 1.
5.01	OXYGEN STORAGE TANK LOCATION. NOT INCLUDED IN BID PACKAGE 2.
5.02	INSTALL 2-IN OXYGEN LINE FROM STORAGE TANK TO UTILITY BRIDGE COLUMN.
6.01	ELECTRIC TRANSFORMER LOCATION. REFER TO ELECTRICAL PLANS IN FUTURE BID PACKAGE.
6.02	NEW OVERHEAD ELECTRIC DISTRIBUTION LINE FROM SUBSTATION. NOT IN BID PACKAGE 2.
6.03	UNDERGROUND ELECTRIC DUCT BANK FROM DISTRIBUTION POLE TO MECHANICAL YARD. NOT INCLUDED IN BID PACKAGE 2.
6.04	EXISTING OVERHEAD ELECTRIC DISTRIBUTION LINE TO PRESERVE.
6.05	EXISTING UNDERGROUND LREC ELECTRIC DISTRIBUTION AND FIBER OPTIC LINES TO PRESERVE.
6.06	INSTALL CONDUITS TO ELECTRIC VEHICLE CHARGING STATIONS. CHARGING STATIONS NOT INCLUDED IN BID PACKAGE 1. SEE SHEET C4-801.
7.01	EXISTING STORM DRAIN PIPE TO REMOVE.
7.02	EXISTING STORM DRAIN INLET TO REMOVE.
7.03	EXISTING STORM DRAIN JUNCTION BOX TO REMOVE.
7.04	EXISTING STORM DRAIN PIPE TO PRESERVE.
7.05	EXISTING STORM DRAIN MANHOLE TO PRESERVE.
7.06	INSTALL STORM DRAIN PIPE. SEE C6 SERIES OF SHEETS.
7.07	INSTALL STORM DRAIN AREA INLET. SEE C6 SERIES OF SHEETS.
7.08	INSTALL STORM DRAIN COMBINATION CURB AND GRATE INLET. SEE C6 SERIES OF SHEETS.
7.09	INSTALL STORM DRAIN JUNCTION BOX. SEE C6 SERIES OF SHEETS.
7.10	INSTALL STORM DRAIN MANHOLE. SEE C6 SERIES OF SHEETS.
7.11	INSTALL FOUNDATION DRAIN AROUND PERIMETER OF BUILDING. SEE FOUNDATION DRAIN PLAN SHEET C6-104.
7.12	6-IN HDPE SOLID WALL PIPE CONNECTING FOUNDATION DRAIN TO STORM SEWER. SEE FOUNDATION DRAIN PLAN SHEET C6-104.
7.13	INSTALL 6-IN SCH-40 PVC ROOF DRAIN PIPE. REFER TO SHEET C6-103 FOR PLAN. REFER TO PLUMBING DRAWINGS FOR BUILDING CONNECTIONS. REFER TO PLUMBING PLANS TO BE ISSUED IN FUTURE BID PACKAGE.
7.14	INSTALL 8-IN SCH-40 PVC ROOF DRAIN PIPE. REFER TO SHEET C6-103 FOR PLAN. REFER TO PLUMBING DRAWINGS FOR BUILDING CONNECTIONS. REFER TO PLUMBING TO BE ISSUED IN FUTURE BID PACKAGE.
7.15	GRATE AND CURB INLET OF EXISTING COMBINATION CURB AND GUTTER INLET SHALL BE ADJUSTED TO FINAL SURFACE GRADE.
7.16	INSTALL 24-IN LAYER OF 12-IN STONE RIP-RAP WITH GEOTEXTILE FILTER FABRIC UNDERLAY.
8.01	SEE BID PACKAGE 1 FOR UNDERGROUND UTILITY WORK NORTH OF THE HOSPITAL DRIVE.

GENERAL NOTES

A. SEE ALSO DEMOLITION PLAN SHEETS C2-101 THROUGH C2-107 FOR UTILITY DEMOLITION COORDINATION.
B. SEE THE C6 SERIES OF SHEETS FOR STORM DRAIN PLANS, PROFILES, AND DETAILS.
C. SEE THE C7 SERIES OF SHEETS FOR WATER PLANS, PROFILES, AND DETAILS.
D. COORDINATE GAS SERVICE WITH NOPFA. VERIFY GAS DEMAND WITH MECHANICAL PLANS.
E. COORDINATE INSTALLATION OF WATER DISTRIBUTION WITH THE TAHLEQUAH PUBLIC WORKS AUTHORITY.
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EXISTING UTILITY LEGEND

COMMUNICATIONS FIBER — FO
ELECTRIC OVERHEAD — E
ELECTRIC UNDERGROUND — E
NATURAL GAS — G
OXYGEN GAS — O_2
SEWER — SS
STORM SEWER — ST
WATER — W
FOUNDATION DRAIN — FD

NEW UTILITY LEGEND

COMMUNICATIONS FIBER — FO
ELECTRIC OVERHEAD — E
ELECTRIC UNDERGROUND — E
NATURAL GAS — G
OXYGEN GAS — O_2
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W.W. HASTINGS REPLACEMENT HOSPITAL
TAHLEQUAH, OKLAHOMA

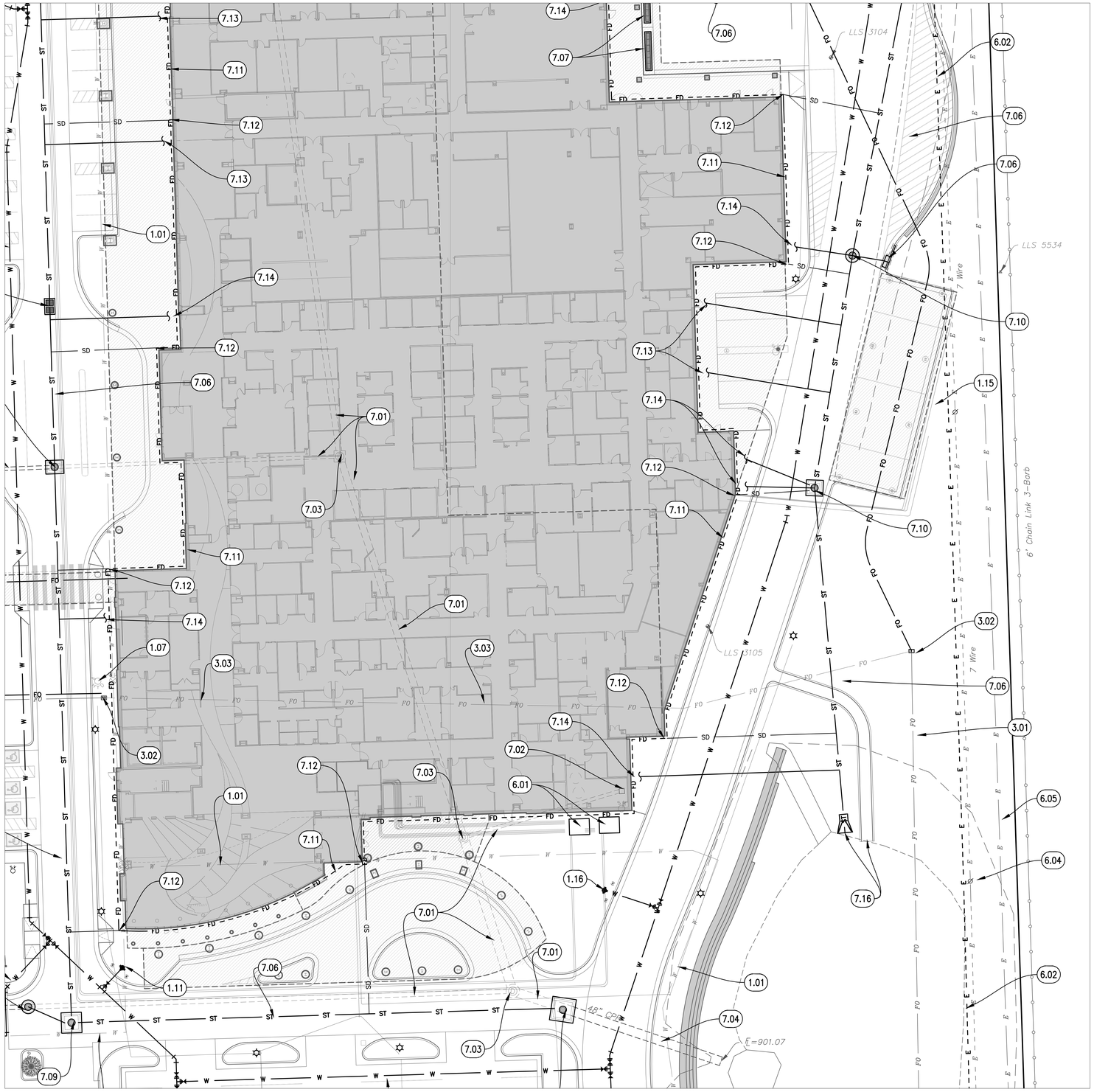
KEY PLAN:
A1 A2
B1 B2
C1 C2

PROJECT PHASE:
BID PACKAGE 02
(SITE DEMOLITION AND UTILITIES)

REVISIONS

JOB NUMBER: 21-08.21
DATE: 10-21-2022
SHEET NUMBER: C4-104
SHEET TITLE: B1 UTILITIES

B1



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2.02	PROPOSED SEWER LIFT STATION. NOT INCLUDED IN BID PACKAGE 2.
2.03	PROPOSED GRAVITY SEWER. NOT INCLUDED IN BID PACKAGE 2.
2.04	PROPOSED SEWER FORCE MAIN TO CLINIC LIFT STATION. NOT INCLUDED IN BID PACKAGE 1.
2.05	PROPOSED GREASE TRAP. NOT INCLUDED IN BID PACKAGE 2.
2.06	EXISTING SEWER MANHOLE TO PRESERVE.
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3.06	CONNECT CONDUITS WITH FIBER OPTIC CONDUITS IN BID PACKAGE 1.

KEYNOTES

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4.02	INSTALL GAS METER FOR 50,000-MBTU SERVICE. CONNECT METER TO 3-IN NOPFA GAS MAIN SHOWN IN BID PACKAGE 1.
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8.01	SEE BID PACKAGE 1 FOR UNDERGROUND UTILITY WORK NORTH OF THE HOSPITAL DRIVE.

GENERAL NOTES

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COMMUNICATIONS FIBER — FO
ELECTRIC OVERHEAD — E
ELECTRIC UNDERGROUND — E
NATURAL GAS — G
OXYGEN GAS — O_2
SEWER — SS
STORM SEWER — ST
WATER — W
FOUNDATION DRAIN — FD

NEW UTILITY LEGEND

COMMUNICATIONS FIBER — FO
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W.W. HASTINGS REPLACEMENT HOSPITAL
TAHLEQUAH, OKLAHOMA

KEY PLAN:
A1 A2
B1 B2
C1 C2

PROJECT PHASE:
BID PACKAGE 02
(SITE DEMOLITION AND UTILITIES)

REVISIONS

JOB NUMBER: 21-08.21
DATE: 10-21-2022
SHEET NUMBER: **C4-105**
SHEET TITLE: B2 UTILITIES

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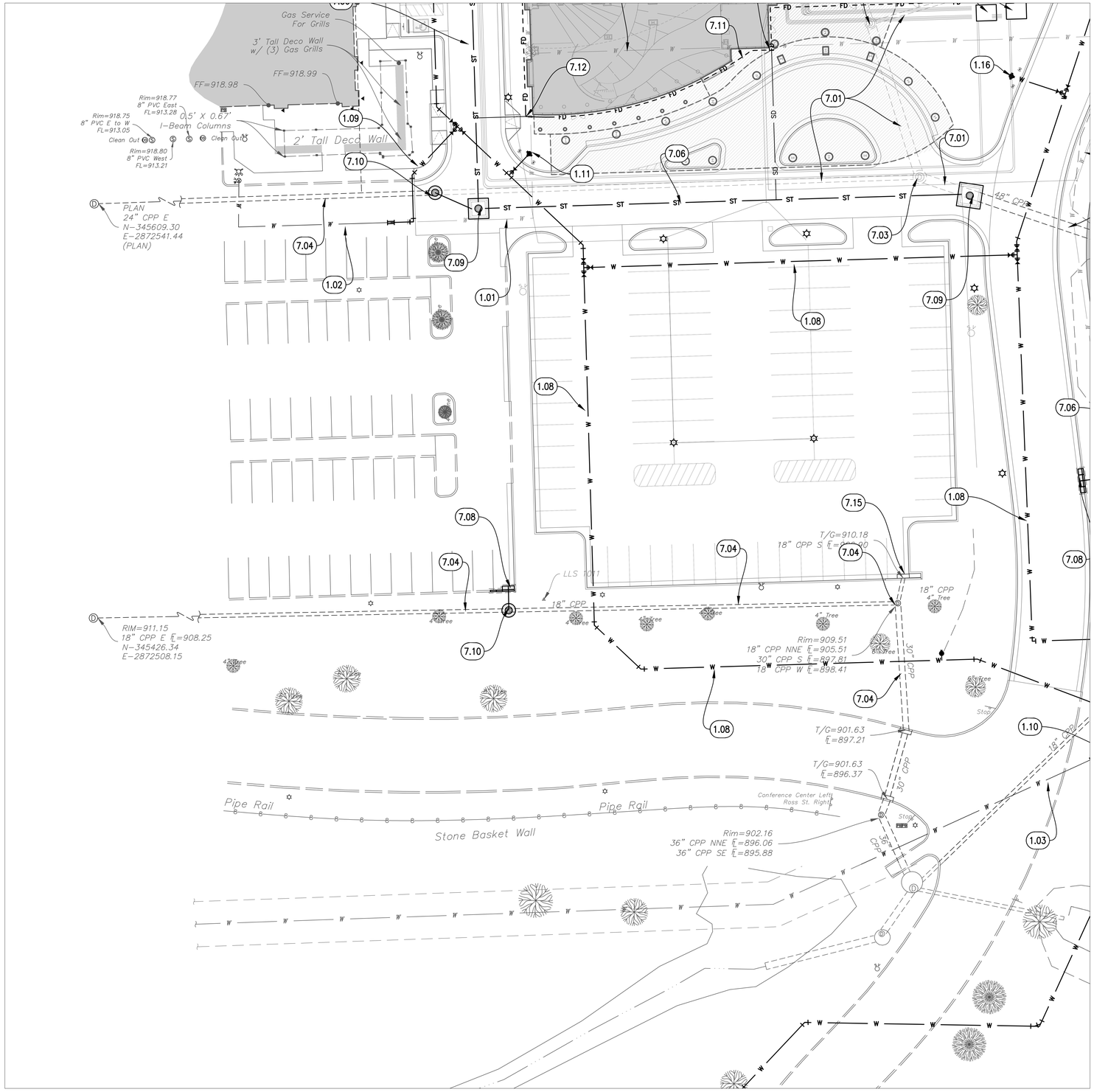

KEYNOTES

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1.07	EXISTING FIRE HYDRANT TO REMOVE.
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1.09	INSTALL 6-IN SDR21 CLASS 200 PVC WATER DISTRIBUTION LINE.
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3.01	EXISTING FIBER OPTIC CONDUITS TO PRESERVE.
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3.03	EXISTING FIBER OPTIC CONDUITS TO REMOVE.
3.04	INSTALL (3) 4-IN FIBER OPTIC CONDUITS. BURY CONDUITS WITH A MINIMUM 3-FT COVER BELOW FINAL GRADE. EMBED CONDUIT WITH SAND OR ROCK SCREENINGS A MINIMUM 6-IN ON ALL SIDES.
3.05	INSTALL FIBER OPTIC PULL BOX WITH LID RATED FOR HEAVY DUTY TRAFFIC.
3.06	CONNECT CONDUITS WITH FIBER OPTIC CONDUITS IN BID PACKAGE 1.

KEYNOTES

4.01	INSTALL GAS SERVICE LINE FOR 50,000-MBTU SERVICE PER NOPFA REQUIREMENTS.
4.02	INSTALL GAS METER FOR 50,000-MBTU SERVICE. CONNECT METER TO 3-IN NOPFA GAS MAIN SHOWN IN BID PACKAGE 1.
5.01	OXYGEN STORAGE TANK LOCATION. NOT INCLUDED IN BID PACKAGE 2.
5.02	INSTALL 2-IN OXYGEN LINE FROM STORAGE TANK TO UTILITY BRIDGE COLUMN.
6.01	ELECTRIC TRANSFORMER LOCATION. REFER TO ELECTRICAL PLANS IN FUTURE BID PACKAGE.
6.02	NEW OVERHEAD ELECTRIC DISTRIBUTION LINE FROM SUBSTATION. NOT IN BID PACKAGE 2.
6.03	UNDERGROUND ELECTRIC DUCT BANK FROM DISTRIBUTION POLE TO MECHANICAL YARD. NOT INCLUDED IN BID PACKAGE 2.
6.04	EXISTING OVERHEAD ELECTRIC DISTRIBUTION LINE TO PRESERVE.
6.05	EXISTING UNDERGROUND LREC ELECTRIC DISTRIBUTION AND FIBER OPTIC LINES TO PRESERVE.
6.06	INSTALL CONDUITS TO ELECTRIC VEHICLE CHARGING STATIONS. CHARGING STATIONS NOT INCLUDED IN BID PACKAGE 1. SEE SHEET C4-801.
7.01	EXISTING STORM DRAIN PIPE TO REMOVE.
7.02	EXISTING STORM DRAIN INLET TO REMOVE.
7.03	EXISTING STORM DRAIN JUNCTION BOX TO REMOVE.
7.04	EXISTING STORM DRAIN PIPE TO PRESERVE.
7.05	EXISTING STORM DRAIN MANHOLE TO PRESERVE.
7.06	INSTALL STORM DRAIN PIPE. SEE C6 SERIES OF SHEETS.
7.07	INSTALL STORM DRAIN AREA INLET. SEE C6 SERIES OF SHEETS.
7.08	INSTALL STORM DRAIN COMBINATION CURB AND GRATE INLET. SEE C6 SERIES OF SHEETS.
7.09	INSTALL STORM DRAIN JUNCTION BOX. SEE C6 SERIES OF SHEETS.
7.10	INSTALL STORM DRAIN MANHOLE. SEE C6 SERIES OF SHEETS.
7.11	INSTALL FOUNDATION DRAIN AROUND PERIMETER OF BUILDING. SEE FOUNDATION DRAIN PLAN SHEET C6-104.
7.12	6-IN HDPE SOLID WALL PIPE CONNECTING FOUNDATION DRAIN TO STORM SEWER. SEE FOUNDATION DRAIN PLAN SHEET C6-104.
7.13	INSTALL 6-IN SCH-40 PVC ROOF DRAIN PIPE. REFER TO SHEET C6-103 FOR PLAN. REFER TO PLUMBING DRAWINGS FOR BUILDING CONNECTIONS. REFER TO PLUMBING PLANS TO BE ISSUED IN FUTURE BID PACKAGE.
7.14	INSTALL 8-IN SCH-40 PVC ROOF DRAIN PIPE. REFER TO SHEET C6-103 FOR PLAN. REFER TO PLUMBING DRAWINGS FOR BUILDING CONNECTIONS. REFER TO PLUMBING TO BE ISSUED IN FUTURE BID PACKAGE.
7.15	GRATE AND CURB INLET OF EXISTING COMBINATION CURB AND GUTTER INLET SHALL BE ADJUSTED TO FINAL SURFACE GRADE.
7.16	INSTALL 24-IN LAYER OF 12-IN STONE RIP-RAP WITH GEOTEXTILE FILTER FABRIC UNDERLAY.
8.01	SEE BID PACKAGE 1 FOR UNDERGROUND UTILITY WORK NORTH OF THE HOSPITAL DRIVE.

GENERAL NOTES

A. SEE ALSO DEMOLITION PLAN SHEETS C2-101 THROUGH C2-107 FOR UTILITY DEMOLITION COORDINATION.
B. SEE THE C6 SERIES OF SHEETS FOR STORM DRAIN PLANS, PROFILES, AND DETAILS.
C. SEE THE C7 SERIES OF SHEETS FOR WATER PLANS, PROFILES, AND DETAILS.
D. COORDINATE GAS SERVICE WITH NOPFA. VERIFY GAS DEMAND WITH MECHANICAL PLANS.
E. COORDINATE INSTALLATION OF WATER DISTRIBUTION WITH THE TAHLEQUAH PUBLIC WORKS AUTHORITY.
F. COORDINATE OXYGEN SUPPLY SERVICE LINE WITH THE FACILITY'S OXYGEN GAS SUPPLIER.
G. HYDRONIC PIPES, FIRE SPRINKLER SUPPLY, MEDICAL GAS, VACUUM, OXYGEN AND LOW VOLTAGE CONDUITS FROM THE CENTRAL ENERGY PLANT WILL BE LOCATED IN THE UTILITY BRIDGE BETWEEN THE ENERGY PLANT AND THE HOSPITAL. THIS WILL BE ISSUED IN A FUTURE BID PACKAGE.

EXISTING UTILITY LEGEND

COMMUNICATIONS FIBER	FO
ELECTRIC OVERHEAD	E
ELECTRIC UNDERGROUND	E
NATURAL GAS	G
OXYGEN GAS	O_2
SEWER	SS
STORM SEWER	ST
WATER	W
FOUNDATION DRAIN	FD

NEW UTILITY LEGEND

COMMUNICATIONS FIBER	FO
ELECTRIC OVERHEAD	E
ELECTRIC UNDERGROUND	E
NATURAL GAS	G
OXYGEN GAS	O_2
SEWER	SS
STORM SEWER	ST
WATER	W
FOUNDATION DRAIN	FD

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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0' 20' 40' 80'
SCALE: 1" = 20'

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SEPT. 6, 1828

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W.W. HASTINGS REPLACEMENT HOSPITAL
TAHLEQUAH, OKLAHOMA

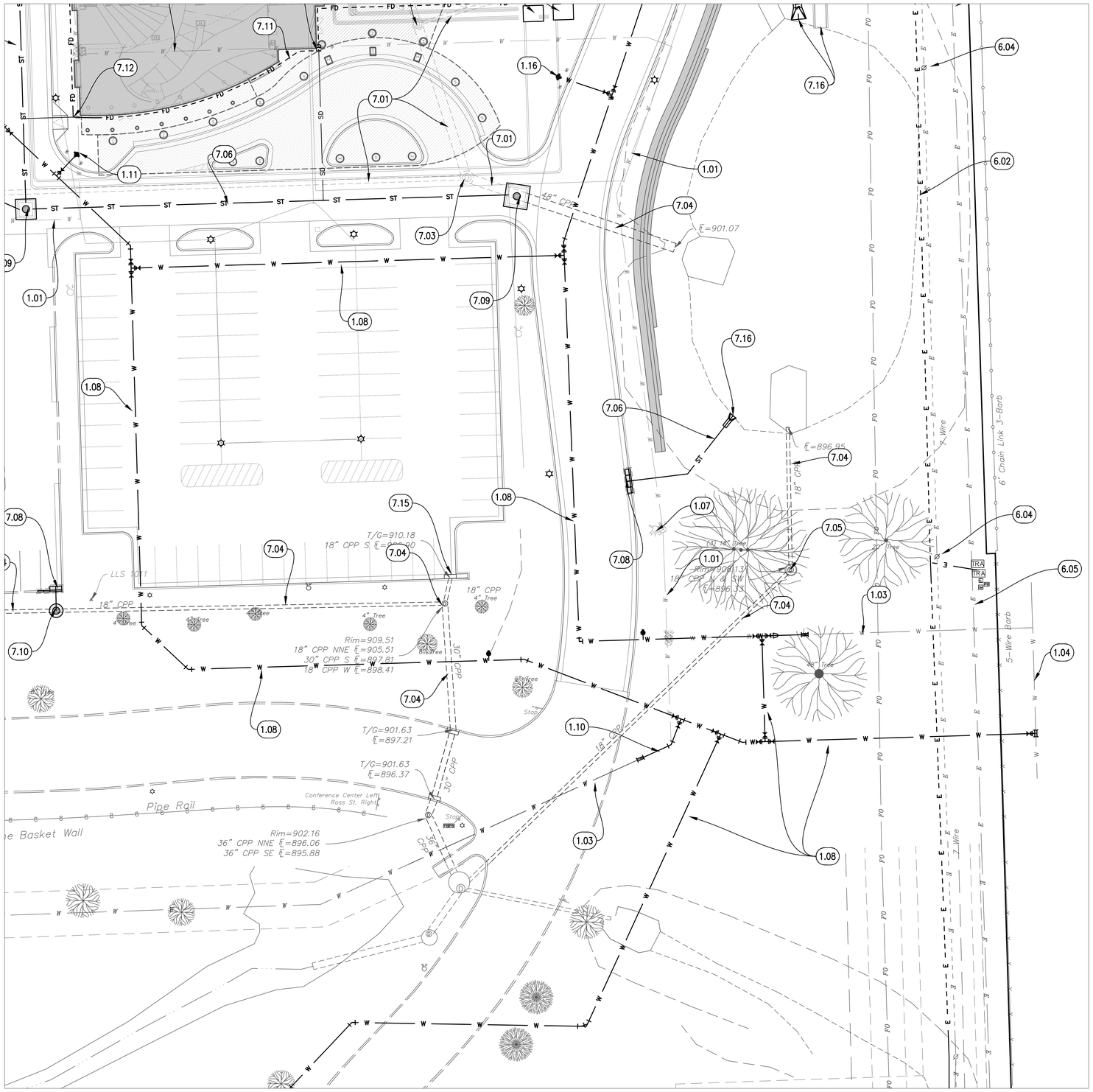
KEY PLAN:
A1 A2
B1 B2
C1 C2

PROJECT PHASE:
BID PACKAGE 02
(SITE DEMOLITION AND UTILITIES)

REVISIONS

JOB NUMBER: 21-08.21
DATE: 10-21-2022
SHEET NUMBER: **C4-106**
SHEET TITLE: C1 UTILITIES

C1



KEYNOTES

1.01	EXISTING WATER DISTRIBUTION LINE TO REMOVE.
1.02	EXISTING 6-IN WATER DISTRIBUTION LINE TO PRESERVE.
1.03	EXISTING 12-IN PVC WATER DISTRIBUTION LINE TO PRESERVE.
1.04	EXISTING 16-IN DI WATER DISTRIBUTION LINE TO PRESERVE.
1.05	EXISTING 8-IN FIRE LINE TO CLINIC TO PRESERVE.
1.06	EXISTING 6-IN WATER SERVICE AND METER VAULT TO CLINIC TO PRESERVE.
1.07	EXISTING FIRE HYDRANT TO REMOVE.
1.08	INSTALL 16-IN PLASTIC WRAPPED DUCTILE IRON WATER DISTRIBUTION LINE.
1.09	INSTALL 6-IN SDR21 CLASS 200 PVC WATER DISTRIBUTION LINE.
1.10	INSTALL 12-IN SDR21 CLASS 200 PVC WATER DISTRIBUTION LINE.
1.11	INSTALL FIRE HYDRANT WITH 6-IN SDR21 CLASS 200 PVC WATER PIPE.
1.12	INSTALL 8-IN FIRE LINE TO CENTRAL ENERGY PLANT. REFER TO FIRE PLANS IN FUTURE BID PACKAGE FOR CONTINUATION.
1.13	INSTALL 6-IN WATER SERVICE LINE TO CENTRAL ENGERY PLANT. REFER TO PLUMBING PLANS IN FUTURE BID PACKAGE FOR CONTINUATION.
1.14	INSTALL CONCRETE VAULT FOR 6-IN WATER METER. TOP ELEVATION OF VAULT LID SHALL BE EVEN WITH SIDEWALK TO MEET A.D.A. REQUIREMENTS.
1.15	INSTALL 1-IN WATER LINE FROM HOSPITAL TO FROST PROOF HYDRANT. REFER TO PLUMBING PLANS IN FUTURE BID PACKAGE.
1.16	INSTALL FIRE HYDRANT SALVAGED FROM DEMOLITION. USE NEW PIPE, VALVES, FITTINGS, BENDS, BOLTS, AND RESTRAINTS.
2.01	EXISTING SANITARY SEWER TO PRESERVE.
2.02	PROPOSED SEWER LIFT STATION. NOT INCLUDED IN BID PACKAGE 2.
2.03	PROPOSED GRAVITY SEWER. NOT INCLUDED IN BID PACKAGE 2.
2.04	PROPOSED SEWER FORCE MAIN TO CLINIC LIFT STATION. NOT INCLUDED IN BID PACKAGE 1.
2.05	PROPOSED GREASE TRAP. NOT INCLUDED IN BID PACKAGE 2.
2.06	EXISTING SEWER MANHOLE TO PRESERVE.
3.01	EXISTING FIBER OPTIC CONDUITS TO PRESERVE.
3.02	EXISTING FIBER OPTIC PULLBOX TO PRESERVE.
3.03	EXISTING FIBER OPTIC CONDUITS TO REMOVE.
3.04	INSTALL (3) 4-IN FIBER OPTIC CONDUITS. BURY CONDUITS WITH A MINIMUM 3-FT COVER BELOW FINAL GRADE. EMBED CONDUIT WITH SAND OR ROCK SCREENINGS A MINIMUM 6-IN ON ALL SIDES.
3.05	INSTALL FIBER OPTIC PULL BOX WITH LID RATED FOR HEAVY DUTY TRAFFIC.
3.06	CONNECT CONDUITS WITH FIBER OPTIC CONDUITS IN BID PACKAGE 1.

KEYNOTES

4.01	INSTALL GAS SERVICE LINE FOR 50,000-MBTU SERVICE PER NOPFA REQUIREMENTS.
4.02	INSTALL GAS METER FOR 50,000-MBTU SERVICE. CONNECT METER TO 3-IN NOPFA GAS MAIN SHOWN IN BID PACKAGE 1.
5.01	OXYGEN STORAGE TANK LOCATION. NOT INCLUDED IN BID PACKAGE 2.
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6.02	NEW OVERHEAD ELECTRIC DISTRIBUTION LINE FROM SUBSTATION. NOT IN BID PACKAGE 2.
6.03	UNDERGROUND ELECTRIC DUCT BANK FROM DISTRIBUTION POLE TO MECHANICAL YARD. NOT INCLUDED IN BID PACKAGE 2.
6.04	EXISTING OVERHEAD ELECTRIC DISTRIBUTION LINE TO PRESERVE.
6.05	EXISTING UNDERGROUND LREC ELECTRIC DISTRIBUTION AND FIBER OPTIC LINES TO PRESERVE.
6.06	INSTALL CONDUITS TO ELECTRIC VEHICLE CHARGING STATIONS. CHARGING STATIONS NOT INCLUDED IN BID PACKAGE 1. SEE SHEET C4-801.
7.01	EXISTING STORM DRAIN PIPE TO REMOVE.
7.02	EXISTING STORM DRAIN INLET TO REMOVE.
7.03	EXISTING STORM DRAIN JUNCTION BOX TO REMOVE.
7.04	EXISTING STORM DRAIN PIPE TO PRESERVE.
7.05	EXISTING STORM DRAIN MANHOLE TO PRESERVE.
7.06	INSTALL STORM DRAIN PIPE. SEE C6 SERIES OF SHEETS.
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7.16	INSTALL 24-IN LAYER OF 12-IN STONE RIP-RAP WITH GEOTEXTILE FILTER FABRIC UNDERLAY.
8.01	SEE BID PACKAGE 1 FOR UNDERGROUND UTILITY WORK NORTH OF THE HOSPITAL DRIVE.

GENERAL NOTES

A. SEE ALSO DEMOLITION PLAN SHEETS C2-101 THROUGH C2-107 FOR UTILITY DEMOLITION COORDINATION.
B. SEE THE C4 SERIES OF SHEETS FOR STORM DRAIN PLANS, PROFILES, AND DETAILS.
C. SEE THE C7 SERIES OF SHEETS FOR WATER PLANS, PROFILES, AND DETAILS.
D. COORDINATE GAS SERVICE WITH NOPFA. VERIFY GAS DEMAND WITH MECHANICAL PLANS.
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EXISTING UTILITY LEGEND

COMMUNICATIONS FIBER — FO
ELECTRIC OVERHEAD — E
ELECTRIC UNDERGROUND — E
NATURAL GAS — G
OXYGEN GAS — O_2
SEWER — SS
STORM SEWER
WATER — W
FOUNDATION DRAIN — FD

NEW UTILITY LEGEND

COMMUNICATIONS FIBER — FO
ELECTRIC OVERHEAD — E
ELECTRIC UNDERGROUND — E
NATURAL GAS — G
OXYGEN GAS — O_2
SEWER — SS
STORM SEWER — ST
WATER — W
FOUNDATION DRAIN — FD

UTILITY WARNING:
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SCALE: 1" = 20'

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C2

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CLIENT:
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SEPT. 6, 1839

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W.W. HASTINGS REPLACEMENT HOSPITAL
TAHLEQUAH, OKLAHOMA

KEY PLAN:
A1 A2
B1 B2
C1 C2

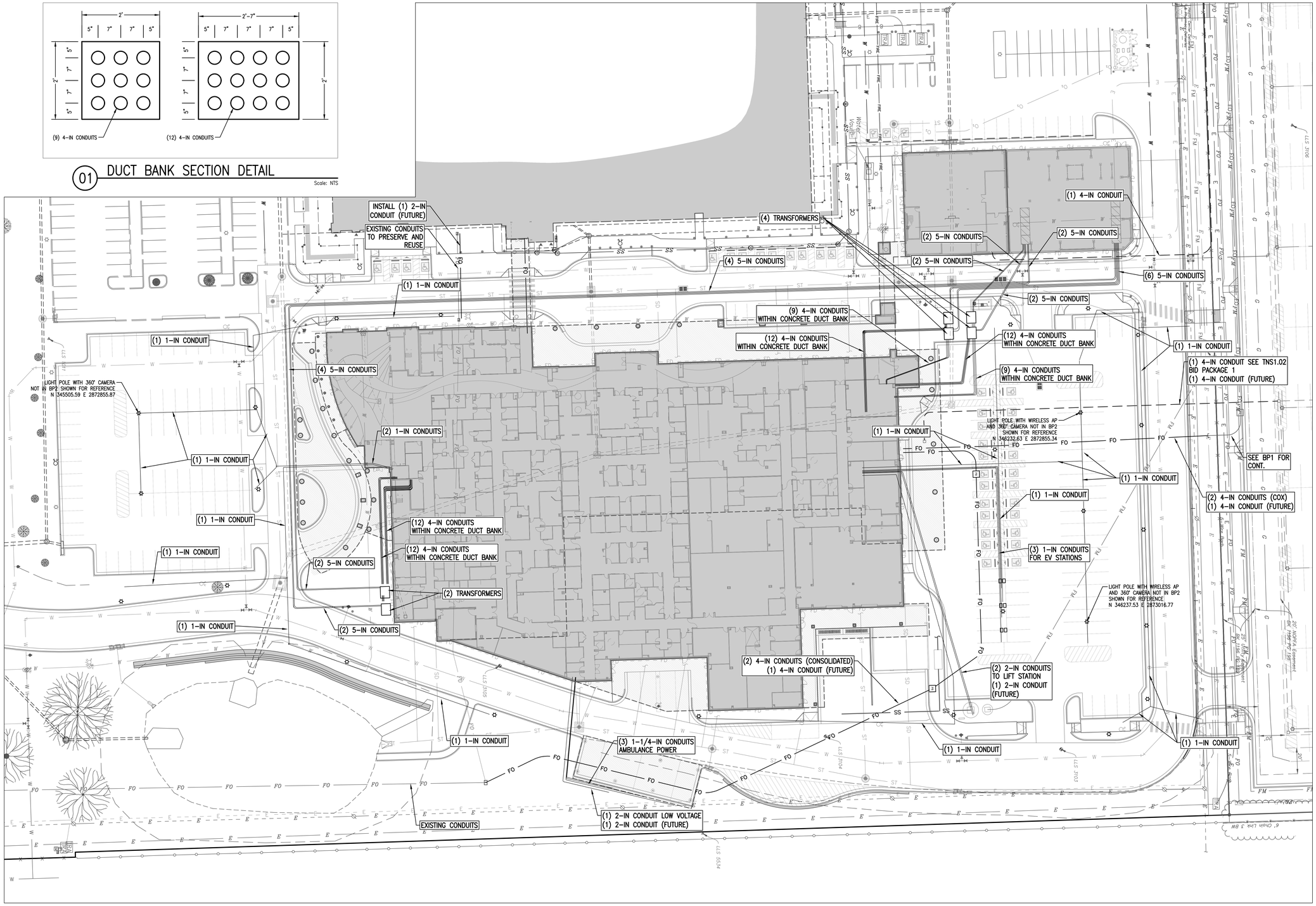
PROJECT PHASE:
BID PACKAGE 02
(SITE DEMOLITION AND UTILITIES)

REVISIONS

JOB NUMBER: 21-08.21
DATE: 10-21-2022
SHEET NUMBER: C4-107
SHEET TITLE: C2 UTILITIES

01 DUCT BANK SECTION DETAIL

Scale: NTS



EXISTING UTILITY LEGEND

COMMUNICATIONS FIBER	FO
ELECTRIC OVERHEAD	E
ELECTRIC UNDERGROUND	E
NATURAL GAS	G
OXYGEN GAS	O_X
SEWER	SS
STORM SEWER	
WATER	W
FOUNDATION DRAIN	FD

NEW UTILITY LEGEND

COMMUNICATIONS FIBER	FO
ELECTRIC OVERHEAD	E
ELECTRIC UNDERGROUND	E
NATURAL GAS	G
OXYGEN GAS	O_X
SEWER	SS
STORM SEWER	ST
WATER	W
FOUNDATION DRAIN	FD

0' 30' 60' 120'

SCALE: 1" = 30'

UTILITY WARNING:
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CHEROKEE NATION
W.W. HASTINGS REPLACEMENT HOSPITAL
TAHLEQUAH, OKLAHOMA

KEY PLAN:

A1	A2
B1	B2
C1	C2

PROJECT PHASE:
BID PACKAGE 02
(SITE DEMOLITION AND UTILITIES)

REVISIONS

JOB NUMBER: 21-08.21
DATE: 10-21-2022
SHEET NUMBER: **C4-801**
SHEET TITLE: SITE ELECTRIC AND COMMUNICATION CONDUITS

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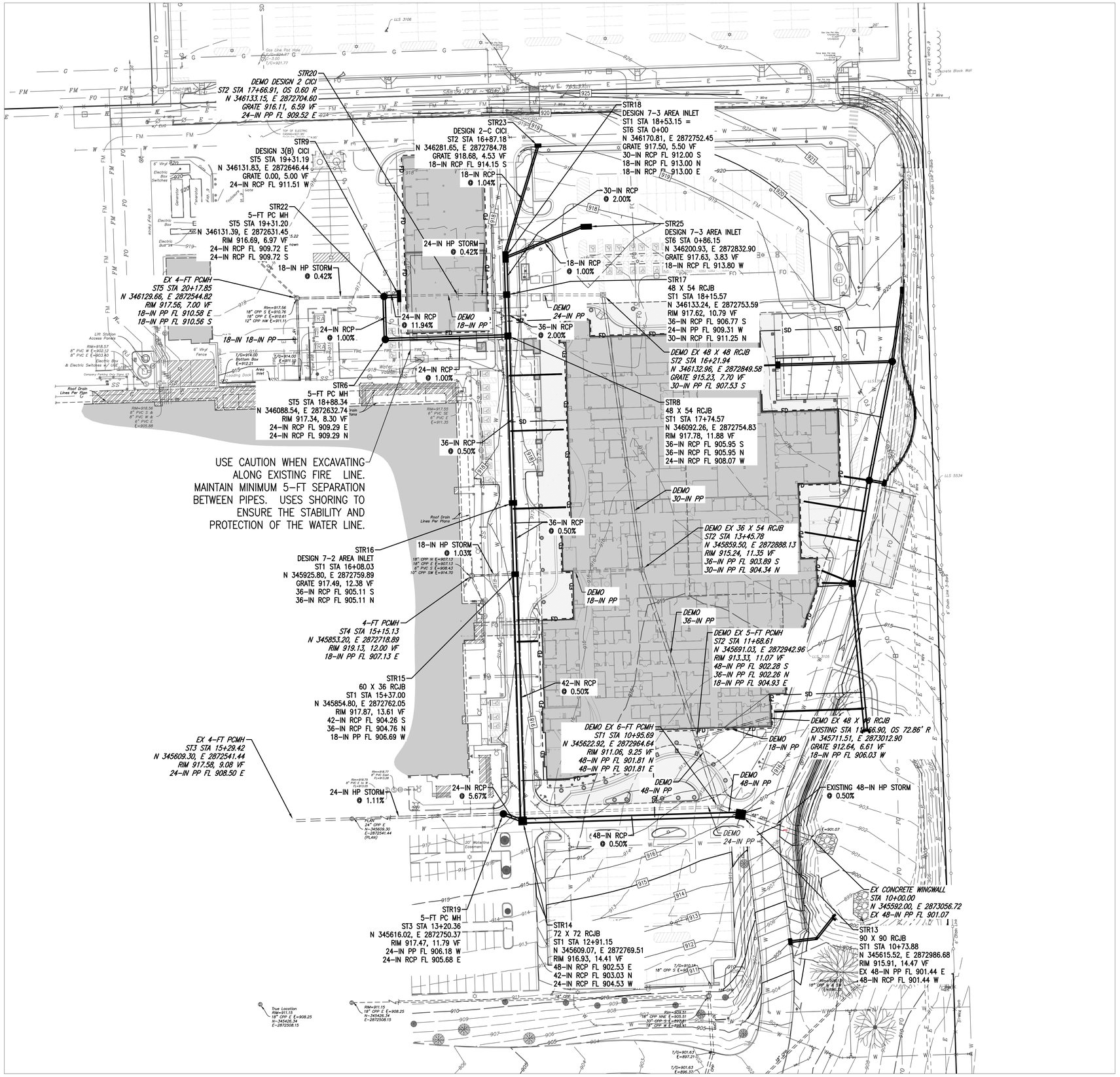

STORM DRAIN CONSTRUCTION NOTES

1. ADS HP STORM PIPE MAY BE SUBSTITUTED FOR REINFORCED CONCRETE PIPE. PIPE SHALL BE INSTALLED, EMBEDDED, AND BACKFILLED ACCORDING TO MANUFACTURER SPECIFICATIONS AND ASTM STANDARDS FOR EMBEDDING AND BACKFILLING POLYPROPLYENE PIPE.
2. CONTRACTOR SHALL COORDINATE WITH THE OWNER THE SCHEDULING OF THE NEW STORM DRAIN INSTALLATION AND THE EXISTING STORM DRAIN DEMOLITION.
3. STORM STRUCTURES REQUIRE PHASED CONSTRUCTION. NEW STRUCTURES MAY REQUIRE PARTIAL, TEMPORARY VERTICAL CONSTRUCTION FOR STORM DRAIN RELOCATION DUE TO THE DIFFERENCE BETWEEN EXISTING GRADE AND FUTURE GRADE. STRUCTURES SHALL BE ADJUSTED TO FINAL GRADE ONCE PARKING LOT IS DEMOLISHED.

UTILITY WARNING:
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ADOPTED SEPT. 6, 1839

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W.W. HASTINGS REPLACEMENT HOSPITAL
TAHLEQUAH, OKLAHOMA

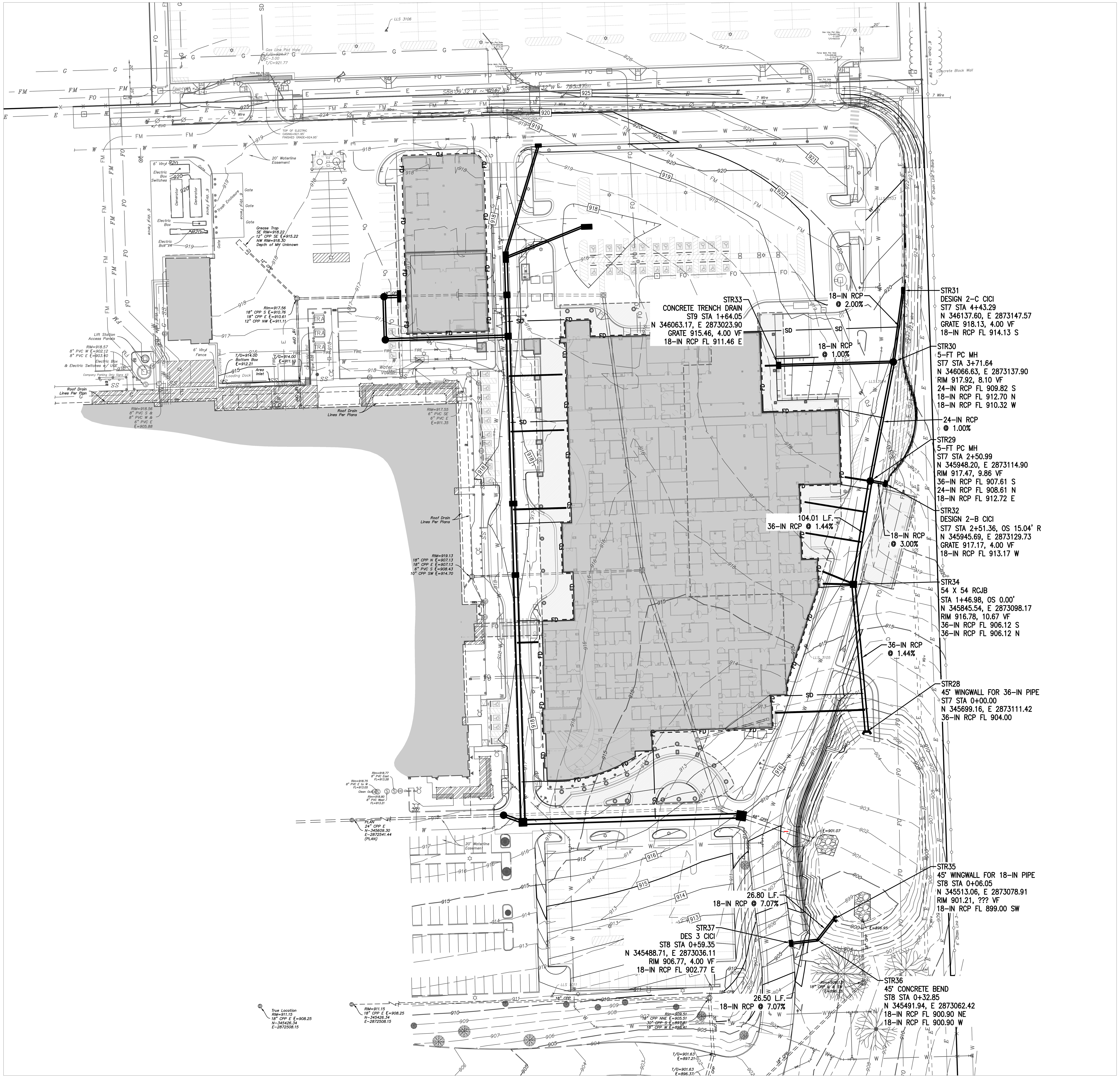
KEY PLAN:
A1 A2
B1 B2
C1 C2

PROJECT PHASE:
BID PACKAGE 02
(SITE DEMOLITION AND UTILITIES)

REVISIONS

JOB NUMBER: 21-08.21
DATE: 10-21-2022
SHEET NUMBER: **C6-101**
SHEET TITLE: STORM DRAIN PLAN

10/21/2022 A:\2021\5123.21\03_DSGN\01_DWG\050_CIVIL\C6-STRM-5123.DWG



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0' 40' 80' 160'

SCALE: 1" = 40'

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.

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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COREY W. LIPPS
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OKLAHOMA
10/21/22

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Oklahoma CA #4935, Expires 6/30/2023

CLIENT:
SEAL OF THE CHEROKEE NATION SEPT. 6, 1839

CHEROKEE NATION
W.W. HASTINGS REPLACEMENT HOSPITAL
TAHLEQUAH, OKLAHOMA

KEY PLAN:

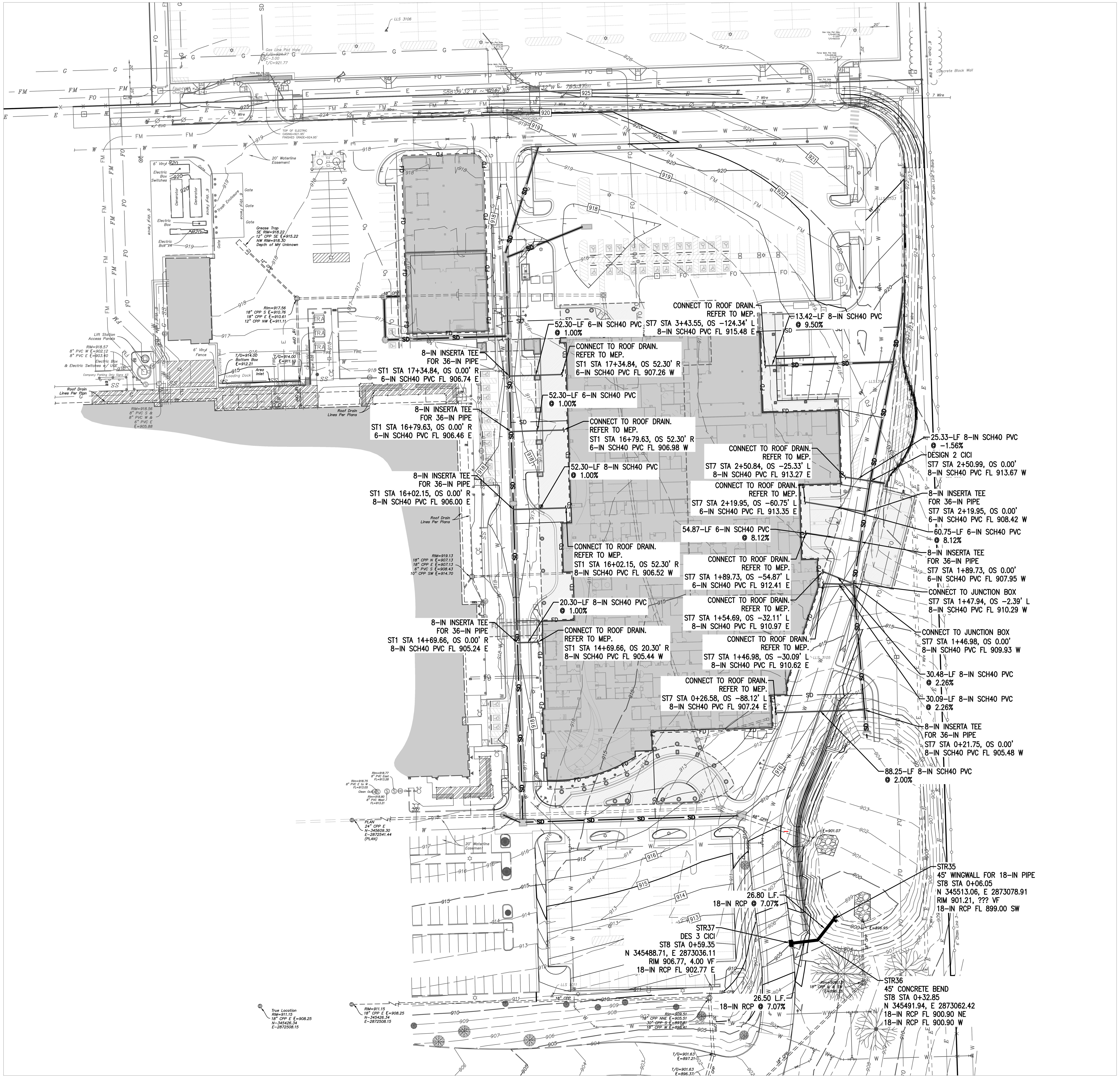
A1	A2
B1	B2
C1	C2

PROJECT PHASE:
BID PACKAGE 02
(SITE DEMOLITION AND UTILITIES)

REVISIONS

JOB NUMBER: 21-08.21
DATE: 10-21-2022
SHEET NUMBER: **C6-102**
SHEET TITLE: STORM DRAIN PLAN

10/21/2022 A:\2021\5123.21\03_DSGN\01_DWG\050_CIVIL\C6-STRM-5123.DWG



0' 40' 80' 160'

SCALE: 1" = 40'

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TAHLEQUAH, OKLAHOMA

KEY PLAN:

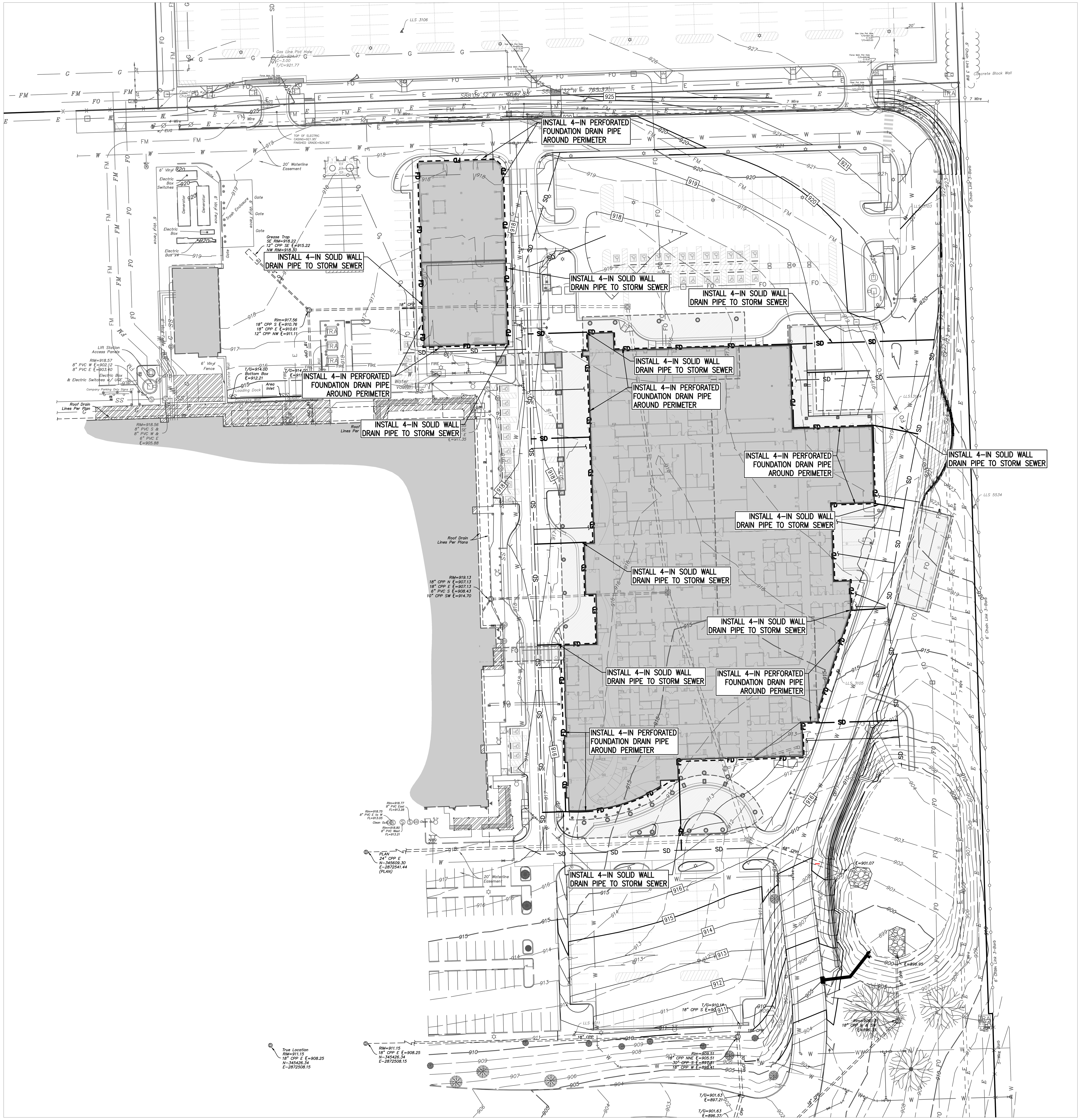
A1	A2
B1	B2
C1	C2

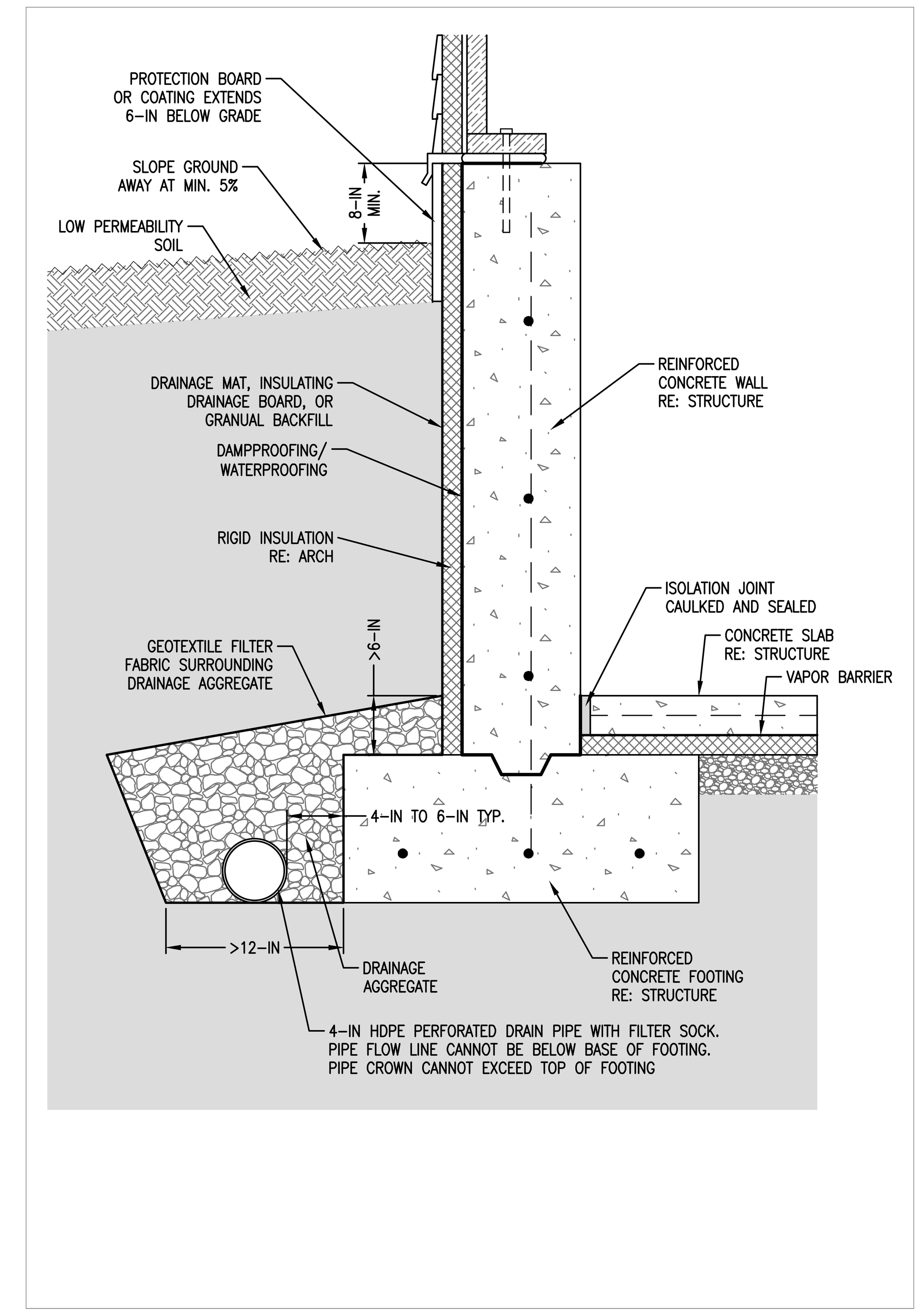
PROJECT PHASE:
BID PACKAGE 02
(SITE DEMOLITION AND UTILITIES)

REVISIONS

JOB NUMBER: 21-08.21
DATE: 10-21-2022
SHEET NUMBER: **C6-103**
SHEET TITLE: ROOF DRAIN PLAN

10/21/2022 A:\2021\5123.21\03_DSGN\01_DWG\050_CIVIL\C6-STRM-5123.DWG





1 FOUNDATION DRAIN PIPE

Scale: NTS

0' 40' 80' 160'

SCALE: 1" = 40'

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TAHLEQUAH, OKLAHOMA

KEY PLAN:

A1	A2
B1	B2
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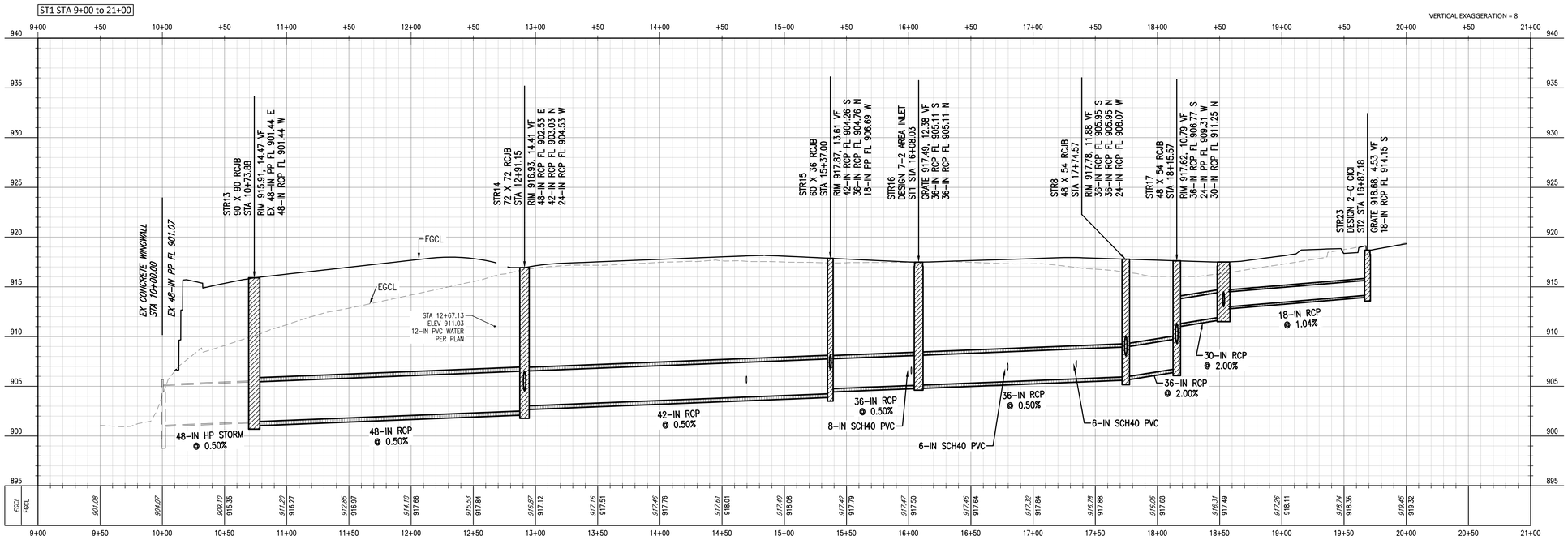
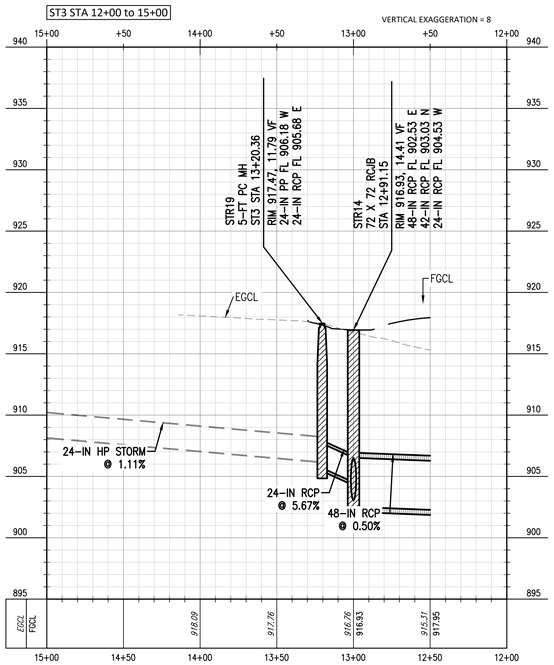
PROJECT PHASE:
BID PACKAGE 02
(SITE DEMOLITION AND UTILITIES)

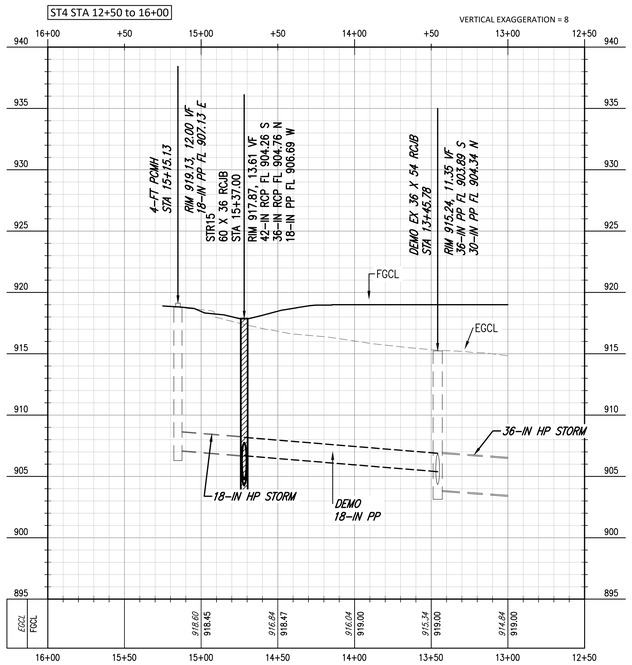
REVISIONS

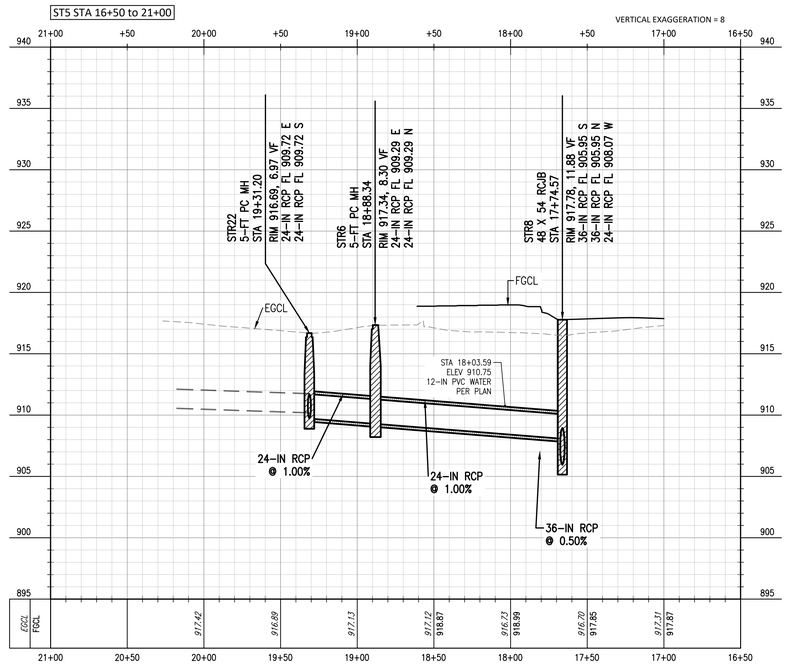
JOB NUMBER: 21-08.21
DATE: 10-21-2022
SHEET NUMBER: **C6-104**
SHEET TITLE: FOUNDATION DRAIN PLAN

10/21/2022 A:\2021\5123.21\03_DSGN\01_DWG\050_CIVIL\C6-STRM-5123.DWG









STORM DRAIN CONSTRUCTION NOTES

1. ADS HP STORM PIPE MAY BE SUBSTITUTED FOR REINFORCED CONCRETE PIPE. PIPE SHALL BE INSTALLED, EMBEDDED, AND BACKFILLED ACCORDING TO MANUFACTURER SPECIFICATIONS AND ASTM STANDARDS FOR EMBEDDING AND BACKFILLING POLYPROPLYENE PIPE.
2. CONTRACTOR SHALL COORDINATE WITH THE OWNER THE SCHEDULING OF THE NEW STORM DRAIN INSTALLATION AND THE EXISTING STORM DRAIN DEMOLITION.
3. STORM STRUCTURES REQUIRE PHASED CONSTRUCTION. NEW STRUCTURES MAY REQUIRE PARTIAL, TEMPORARY VERTICAL CONSTRUCTION FOR STORM DRAIN RELOCATION DUE TO THE DIFFERENCE BETWEEN EXISTING GRADE AND FUTURE GRADE. STRUCTURES SHALL BE ADJUSTED TO FINAL GRADE ONCE PARKING LOT IS DEMOLISHED.

0' 40' 80' 160'
SCALE: 1" = 40'

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TAHLEQUAH, OKLAHOMA

KEY PLAN:

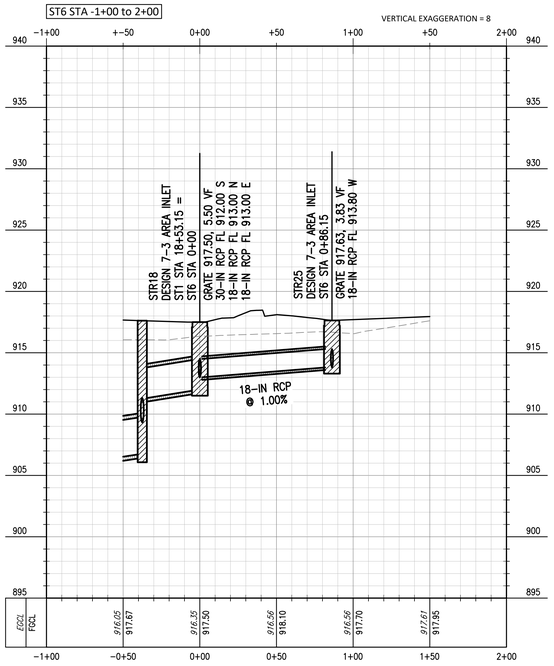
PROJECT PHASE:
BID PACKAGE 02
(SITE DEMOLITION AND UTILITIES)

REVISIONS

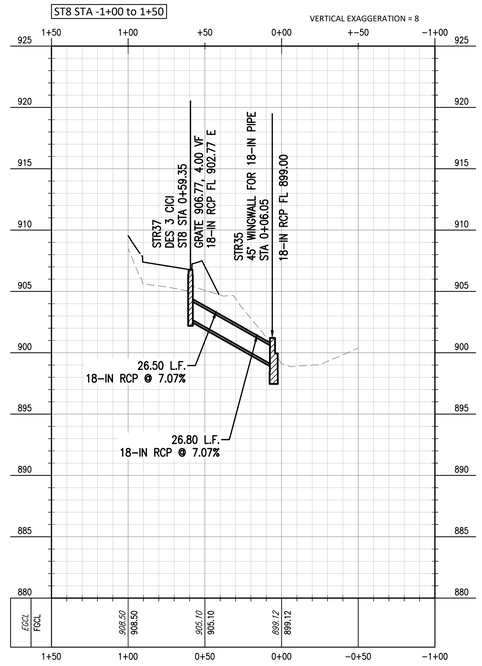
JOB NUMBER: 21-08.21
DATE: 10-21-2022
SHEET NUMBER: **C6-203**
SHEET TITLE: STORM DRAIN PROFILES

10/21/2022 A:\2021\5123.21\03_DSGN\01_DWG\050_CIVIL\C6-STRM-5123.DWG

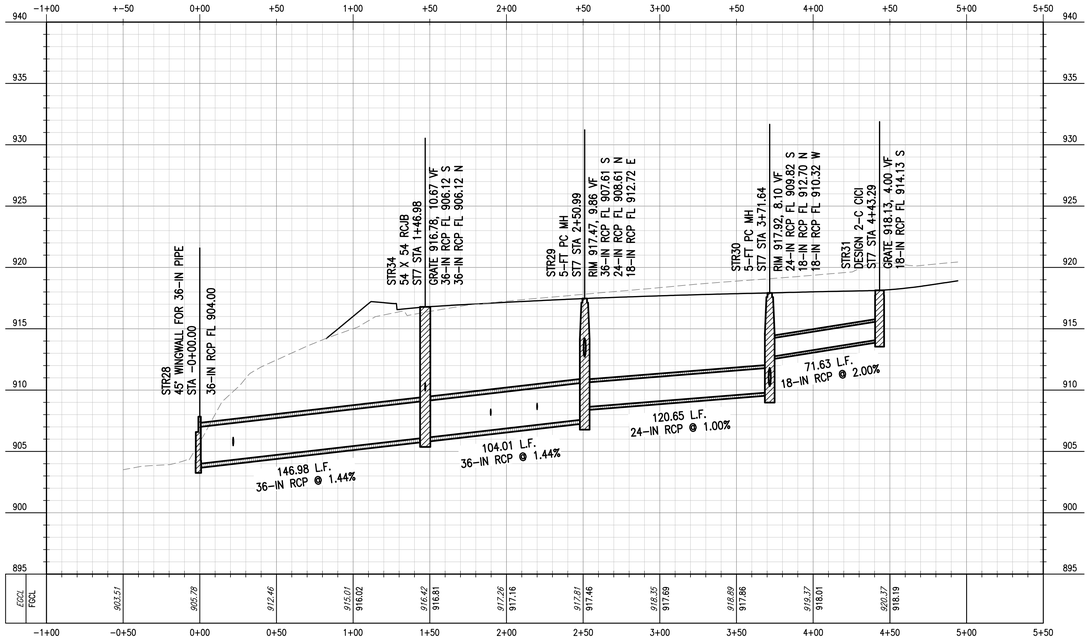
ST6 STA -1+00 to 2+00



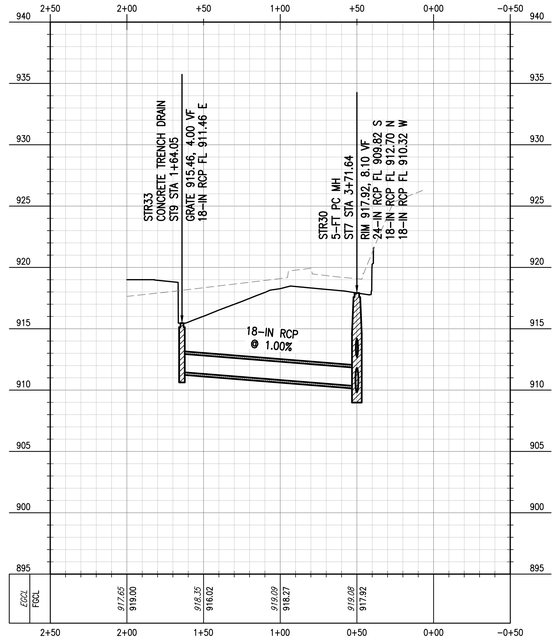
ST8 STA -1+00 to 1+50



ST7 STA -1+00 to 5+50



ST9 STA -0+50 to 2+50



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TAHLEQUAH, OKLAHOMA

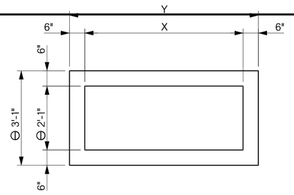
KEY PLAN:

PROJECT PHASE:
BID PACKAGE 02
(SITE DEMOLITION AND UTILITIES)

REVISIONS

JOB NUMBER: 21-08.21
DATE: 10-21-2022
SHEET NUMBER: **C6-204**
SHEET TITLE: STORM DRAIN PROFILES

10/21/2022 A:\2021\5123.21\03_DSGN\01_DWG\050_CIVIL\C6-STRM-5123.DWG



PLAN VIEW - STANDARD CURB INLET

CURB INLET SCHEDULE			
DESIGNATION	STRUCTURE LENGTH		
	DESIGN 1	DESIGN 2	DESIGN 3
STD.	3'-7"	6'-2"	11'-6"
A	6'-3"	8'-10"	14'-2"
B	8'-11"	11'-6"	16'-10"
C	11'-7"	14'-2"	19'-6"
D	14'-4"	16'-11"	22'-3"
2A	8'-11"	11'-6"	16'-10"
A-B	11'-7"	14'-2"	19'-6"
A-C	14'-3"	16'-10"	22'-2"
2B	14'-3"	16'-10"	22'-2"
B-C	16'-11"	19'-6"	24'-10"
2C	19'-7"	22'-2"	27'-6"
B-D	19'-8"	22'-3"	27'-7"
2D	25'-1"	27'-8"	33'-0"

CURB INLET ADDITIONAL OPENINGS	
CURB OPENING DESIGNATION	THROAT SECTION LENGTH
A	2'-8"
B	5'-4"
C	8'-0"
D	10'-9"

① STANDARD DEPTH
2'-9" FOR 18" DIA. PIPE
3'-4" FOR 24" DIA. PIPE
4'-0" FOR 30" DIA. PIPE
4'-6" FOR 36" DIA. PIPE

DESIGN DATA

MATERIAL:

CLASS A CONCRETE f'c = 4 KSI
REINFORCING STEEL fy = 60 KSI

LOADING:

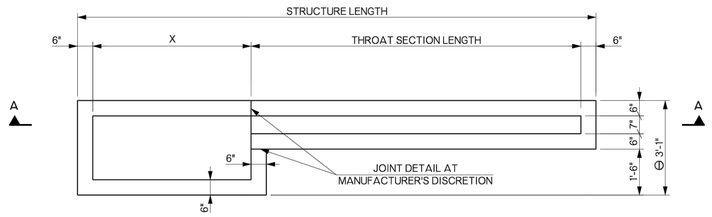
HL-93

DESIGN:

AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 7TH EDITION
ASTM C890
ASTM C913

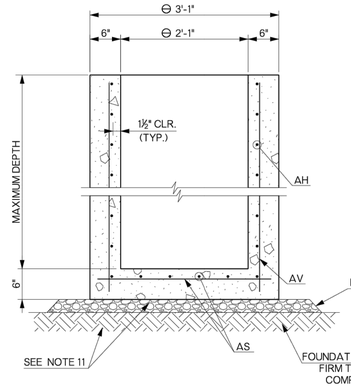
GENERAL NOTES

1. ALL CONSTRUCTION AND MATERIAL REQUIREMENTS SHALL BE IN ACCORDANCE WITH THE 2019 ODOT STANDARD SPECIFICATIONS.
2. FOR DETAILS OF FRAMES, GRATES AND HOODS SEE ROADWAY STANDARDS SSIF-5, CIG-4 AND CI-2. COST OF FRAMES, GRATES AND HOODS SHALL BE INCLUDED IN THE COST OF THE STRUCTURE.
3. THERE SHALL BE A MINIMUM VERTICAL DISTANCE OF 6" BETWEEN AN OPENING AND ANY EDGE.
4. PROVIDE LIFTING DEVICES IN CONFORMANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
5. PROVIDE GRADE 60 REINFORCING STEEL CONFORMING TO ASTM A615 OR EQUIVALENT AREA OF WELDED WIRE REINFORCING CONFORMING TO ASTM A1064.
6. PROVIDE A MINIMUM CLEAR COVER OF 1½" TO REINFORCING STEEL.
7. WALLS OR SLABS WITH A THICKNESS OF 8" OR GREATER REQUIRE A SECONDARY LAYER OF REINFORCING STEEL. PROVIDE AN AREA OF REINFORCING STEEL EQUAL TO 0.11 IN^2/FT EACH WAY IN THE SECONDARY LAYER.
8. BLOCKOUTS IN WALLS MAY BE FORMED FOR GRATE SUPPORT BEAMS. THE SUPPORT BEAM SHALL BE OF SIZE S4x7.7 OR AS DESCRIBED ON ROADWAY STANDARD SSIF-5.
9. MAXIMUM OPENING DIAMETER SHALL BE 4" LARGER THAN OUTSIDE DIAMETER OF PIPE.
10. DO NOT GROUT RUBBER GASKET JOINTS WITHOUT THE MANUFACTURER'S RECOMMENDATIONS.
11. THE FOUNDATION SHALL BE STABILIZED OR REMOVED AND REPLACED WITH FIRM AND STABLE FOUNDATION MATERIAL. A MINIMUM 3" THICK LEVELING COURSE SHALL BE PROVIDED BELOW THE BASE AREA OF THE INLET AND EXTEND 6" BEYOND THE BASE AREA. THE LEVELING COURSE SHALL BE CONSTRUCTED WITH AGGREGATE BASE TYPE A. COSTS ASSOCIATED WITH THE FOUNDATION AND LEVELING COURSE SHALL BE INCLUDED IN THE PRICE BID OF THE STRUCTURE.
12. WALLS AND SLABS WILL HAVE A MINIMUM THICKNESS OF 6". A TOLERANCE OF ±3/8" WILL BE ALLOWED FOR FABRICATION.
13. FLEXURAL REINFORCING STEEL SHALL NOT EXCEED SPACING OF 6" CENTER TO CENTER

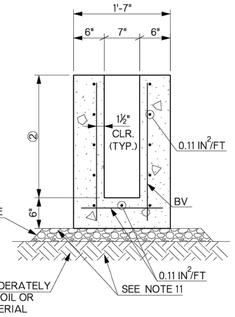


PLAN VIEW - CURB INLET WITH ADDITONAL OPENINGS

NOTE: THROAT SECTION MAY ENTER EITHER OR BOTH SIDES OF CURB INLET.

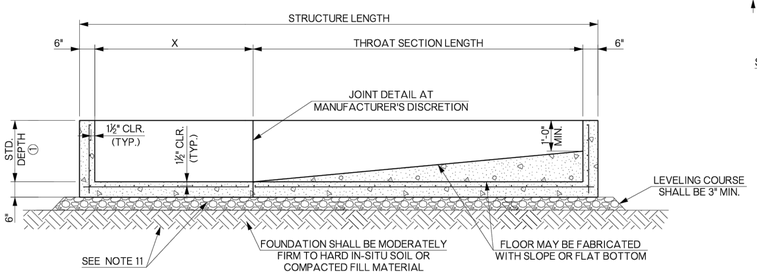


CROSS-SECTIONAL VIEW - CURB INLET

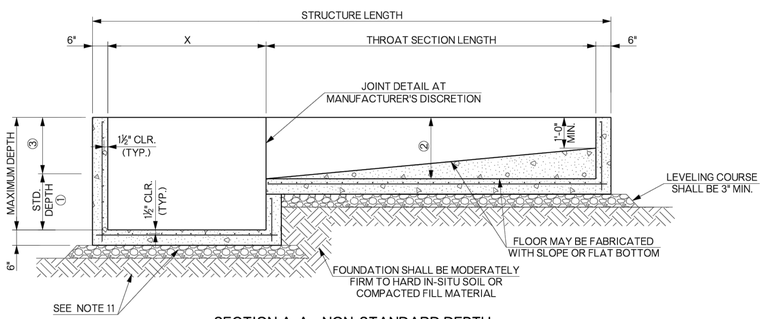


CROSS-SECTIONAL VIEW - THROAT

② STANDARD DEPTH SHALL BE AS SHOWN IN STANDARD DEPTH TABLE ABOVE. NON-STD. DEPTH SHALL BE A MINIMUM OF 2'-0" AND A MAXIMUM OF 5'-0"



SECTION A-A - STANDARD DEPTH



SECTION A-A - NON-STANDARD DEPTH

③ ADDITIONAL CURB INLET DEPTH PER VERTICAL FOOT

SCHEDULE OF DIMENSIONS AND REINFORCING STEEL														
INLET DESIGN	⊖X	⊖Y	AH BARS (IN^2/FT) DEPTH								AS BARS (IN^2/FT)	AV BARS (IN^2/FT)	BV BARS (IN^2/FT) DEPTH		
			3'	4'	5'	6'	7'	8'	9'	10'			3'	4'	5'
1	2'-7"	3'-7"	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.20	0.11	0.11	0.16	0.26
2	5'-2"	6'-2"	0.11	0.11	0.11	0.11	0.11	0.12	0.13	0.14	0.18	0.11			
3	10'-6"	11'-6"	0.20	0.25	0.29	0.33	0.37	0.41	0.46	0.50	0.13	0.17			

⊖ DIMENSIONS SHOWN ARE THE MAXIMUM DIMENSIONS ALLOWED. INLET DIMENSIONS LESS THAN THOSE SHOWN ARE ACCEPTABLE FOR THE APPLICABLE INLET DESIGN NUMBER PROVIDED THE DIMENSIONS MEET GEOMETRIC REQUIREMENTS OF THE FRAMES, GRATES AND HOODS.

REINFORCING STEEL VALUES LISTED IN "SCHEDULE OF DIMENSIONS AND REINFORCING STEEL" ARE MINIMUM VALUES. STRUCTURES THAT PROVIDE VALUES LARGER THAN THOSE SHOWN WILL BE CONSIDERED ACCEPTABLE.

BASIS OF PAYMENT		
ITEM NO.	ITEM	UNIT
611(G)	PRECAST INLET CI DES. 1 (STD)	EA.
611(G)	PRECAST INLET CI DES. 1 (A)	EA.
611(G)	PRECAST INLET CI DES. 1 (B)	EA.
611(G)	PRECAST INLET CI DES. 1 (C)	EA.
611(G)	PRECAST INLET CI DES. 1 (D)	EA.
611(G)	PRECAST INLET CI DES. 1 (2A)	EA.
611(G)	PRECAST INLET CI DES. 1 (A-B)	EA.
611(G)	PRECAST INLET CI DES. 1 (A-C)	EA.
611(G)	PRECAST INLET CI DES. 1 (2B)	EA.
611(G)	PRECAST INLET CI DES. 1 (B-C)	EA.
611(G)	PRECAST INLET CI DES. 1 (2C)	EA.
611(G)	PRECAST INLET CI DES. 2 (STD)	EA.
611(G)	PRECAST INLET CI DES. 2 (B)	EA.
611(G)	PRECAST INLET CI DES. 2 (C)	EA.
611(G)	PRECAST INLET CI DES. 2 (D)	EA.
611(G)	PRECAST INLET CI DES. 2 (2B)	EA.
611(G)	PRECAST INLET CI DES. 2 (2C)	EA.
611(G)	PRECAST INLET CI DES. 2 (B-D)	EA.
611(G)	PRECAST INLET CI DES. 2 (2D)	EA.
611(G)	PRECAST INLET CI DES. 3 (STD)	EA.
611(G)	PRECAST INLET CI DES. 3 (B)	EA.
611(G)	PRECAST INLET CI DES. 3 (D)	EA.
611(G)	PRECAST INLET CI DES. 3 (2B)	EA.
611(G)	PRECAST INLET CI DES. 3 (B-D)	EA.
611(G)	PRECAST INLET CI DES. 3 (2D)	EA.
611(G)	ADD'L DEPTH IN PRECAST INLET CI DES. 1	VF
611(G)	ADD'L DEPTH IN PRECAST INLET CI DES. 2	VF
611(G)	ADD'L DEPTH IN PRECAST INLET CI DES. 3	VF

APPROVED BY ROADWAY ENGINEER: DATE: 5/27/20

ROADWAY DESIGN DIVISION STANDARD

PRECAST CURB INLET
(DESIGNS 1, 2 AND 3)

OKLAHOMA Transportation

2019 SPECIFICATIONS

PCI-1	0
	R-25

OKLAHOMA DEPARTMENT OF TRANSPORTATION

STANDARD REVISIONS	
DESCRIPTION	DATE
XXXXXXXXX	XX/XX/XX

01 COMBINATION CAST IRON CURB INLETS

Scale: NTS

James R. Childers Architect, Inc.
45 South 4th Street
Fort Smith, AR 72901
479-783-2480
www.childersarchitect.com

PROFESSIONAL SEAL:
REGISTERED PROFESSIONAL ENGINEER COREY W. LIPPS 21291
10/21/22

CONSULTANT LOGO:
Parkhill
14101 Wireless Way, Suite 350
Oklahoma City, OK 73134
405-810-9900
www.parkhill.com
Oklahoma CA #4935, Expires 6/30/2023

CLIENT:
SEAL OF THE CHEROKEE NATION SEPT. 6, 1839

CHEROKEE NATION
W.W. HASTINGS REPLACEMENT HOSPITAL
TAHLEQUAH, OKLAHOMA

KEY PLAN:

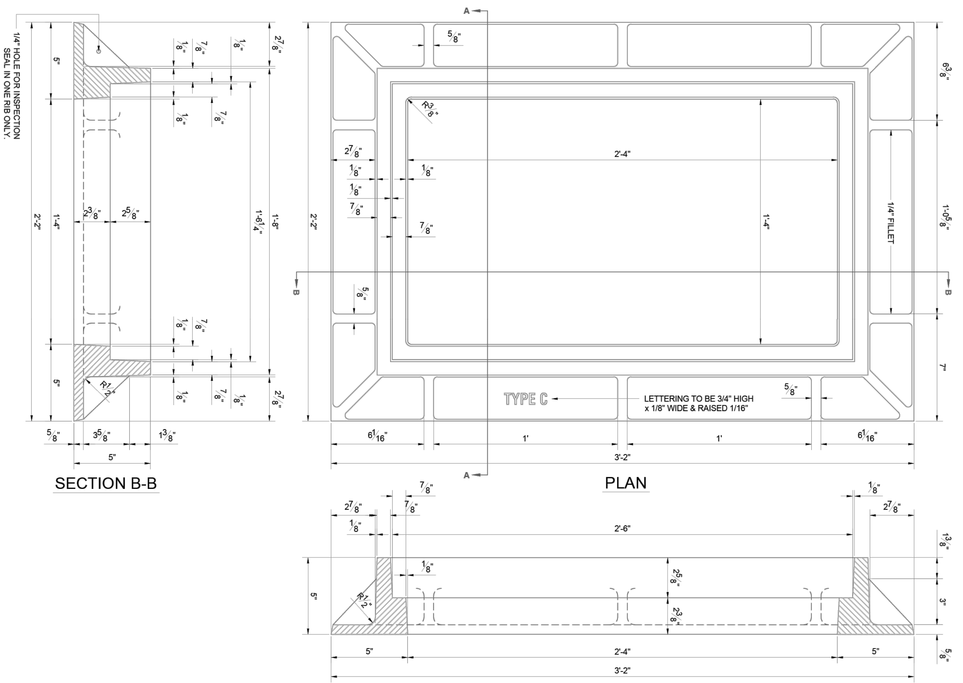
PROJECT PHASE:
BID PACKAGE 02
(SITE DEMOLITION AND UTILITIES)

REVISIONS

JOB NUMBER: 21-08.21
DATE: 10-21-2022
SHEET NUMBER: C6-506
SHEET TITLE: CICI BOX

10/21/2022 A:\2021\5123.21\03_DSGN\01_DWG\050_CIVIL\C6-DETL-5123.DWG

01 CICI GRATE FRAME



GENERAL NOTES:

1. CASTINGS SHALL CONFORM TO THE A.S.T.M. SPECIFICATIONS FOR GRAY IRON CASTINGS SERIAL DESIGN A-48-29.
2. NO WORDING OR MARKINGS OF ANY KIND OTHER THAN THOSE SHOWN ON THE PLANS WILL BE PERMITTED ON THESE CASTINGS.

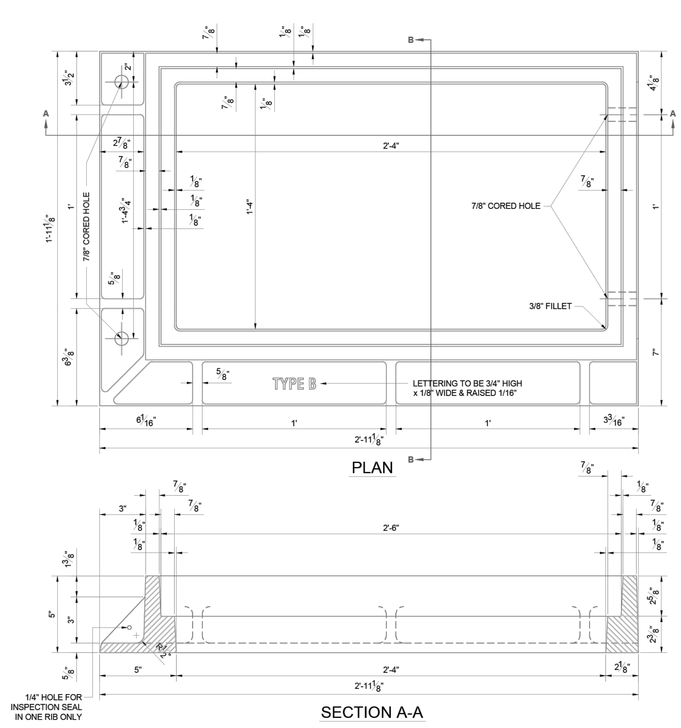
CASTING WEIGHTS

THE AVERAGE WEIGHT OG CASTINGS FURNISHED WILL NOT BE LSEE THAN 98% OF WEIGHTS SHOWN BELOW. wEIGHTS OF INDIVIDUAL CASTINGS SHALL NOT BE LESS THAN 95% OF WEIGHTS SHOWN BELOW.

TYPE "A" FRAME ONLY	205 LBS.
TYPE "B" FRAME ONLY	195 LBS.
TYPE "C" FRAME ONLY	210 LBS.
TYPE "A" GRATE ONLY	145 LBS.

STORM SEWER INLET FRAME

INLET DESIGN #5



GENERAL NOTES:

1. CASTINGS SHALL CONFORM TO THE A.S.T.M. SPECIFICATIONS FOR GRAY IRON CASTINGS SERIAL DESIGN A-48-29.
2. NO WORDING OR MARKINGS OF ANY KIND OTHER THAN THOSE SHOWN ON THE PLANS WILL BE PERMITTED ON THESE CASTINGS.
3. MAKE ONE FRAME AS SHOWN AND ONE REVERSED FOR EACH PAIR OF DOUBLE FRAMES.
4. PLATES ON I-BEAM SUPPORTS SHALL BE SPOT WELDED TO THE I-BEAM AT FOUR PLACES ON EACH SIDE OF FLANGE.
5. WHEN BUILT ON A CURVE, INLET DESIGN #2 REQUIRES 1 - 3/4" x 5" MACHINE BOLT WITH NUT, 1 - 3/4" x 6 1/2" MACHINE BOLT WITH NUT, AND 1 - 3/8" x 5" PLATE.
6. WHEN BUILT ON A CURVE, INLET #3 REQUIRES THE SAME APPURTENANCES AS INLET #2 FOR EACH DOUBLE FRAME AND IN ADDITION REQUIRES THE I-BEAM SUPPORT WITH 10° PLATE. THE NUMBER OF THESE SUPPORTS IS ONE LESS THAN THE NUMBER OF DOUBLE FRAMES SPECIFIED. FOUR 3/4" x 1 3/4" MACHINE BOLTS WITH NUTS ARE REQUIRED FOR EACH OF THESE SUPPORTS.

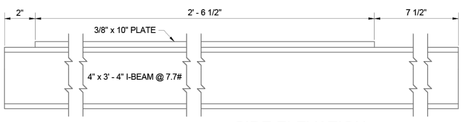
CASTING WEIGHTS

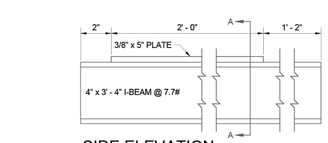
THE AVERAGE WEIGHT OG CASTINGS FURNISHED WILL NOT BE LSEE THAN 98% OF WEIGHTS SHOWN BELOW. wEIGHTS OF INDIVIDUAL CASTINGS SHALL NOT BE LESS THAN 95% OF WEIGHTS SHOWN BELOW.

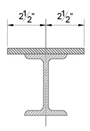
TYPE "A" FRAME ONLY	205 LBS.
TYPE "B" FRAME ONLY	195 LBS.
TYPE "C" FRAME ONLY	210 LBS.
TYPE "A" GRATE ONLY	145 LBS.

STORM SEWER INLET FRAME

TYPE "B" FOR INLET DESIGN #2

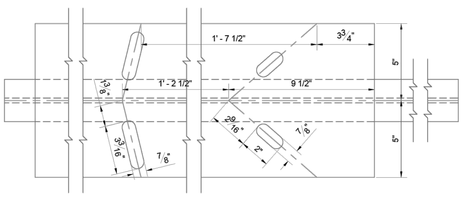






I-BEAM SUPPORT

FOR USE ON CURVED CURBS



I-BEAM SUPPORT

FOR INLET DESIGN #3 ONLY

Scale: 1" = 1'

CHEROKEE NATION
W.W. HASTINGS REPLACEMENT HOSPITAL
TAHLEQUAH, OKLAHOMA

CLIENT:

CONSULTANT LOGO:
Parkhill
1111 E. 15th Street, Suite 202
Oklahoma City, OK 73129
405.605.6000
www.parkhill.com
Oklahoma CA #4926, Expires 6/30/2023

PROFESSIONAL SEAL:
REGISTERED PROFESSIONAL ENGINEER
COREY W. LIPPS
21291
10/21/22

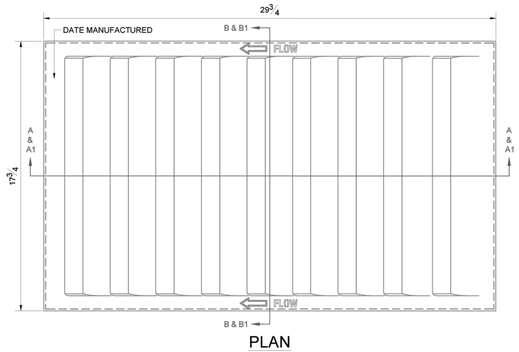
James R. Childers Architect, Inc.
P.O. Box 1447
Fort Smith, AR 72901
(479) 782-3400
www.childersarchitect.com

KEY PLAN:

PROJECT PHASE:
BID PACKAGE 02
(SITE DEMOLITION AND UTILITIES)

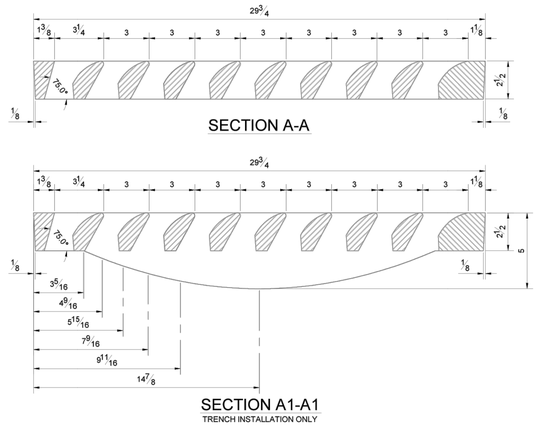
REVISIONS:

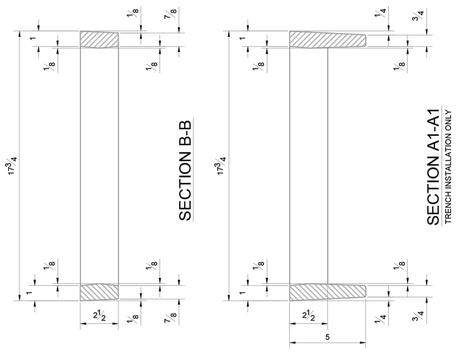
JOB NUMBER: 21-08.21
DATE: 10-21-2022
SHEET NUMBER: C6-507
SHEET TITLE: CICI FRAME

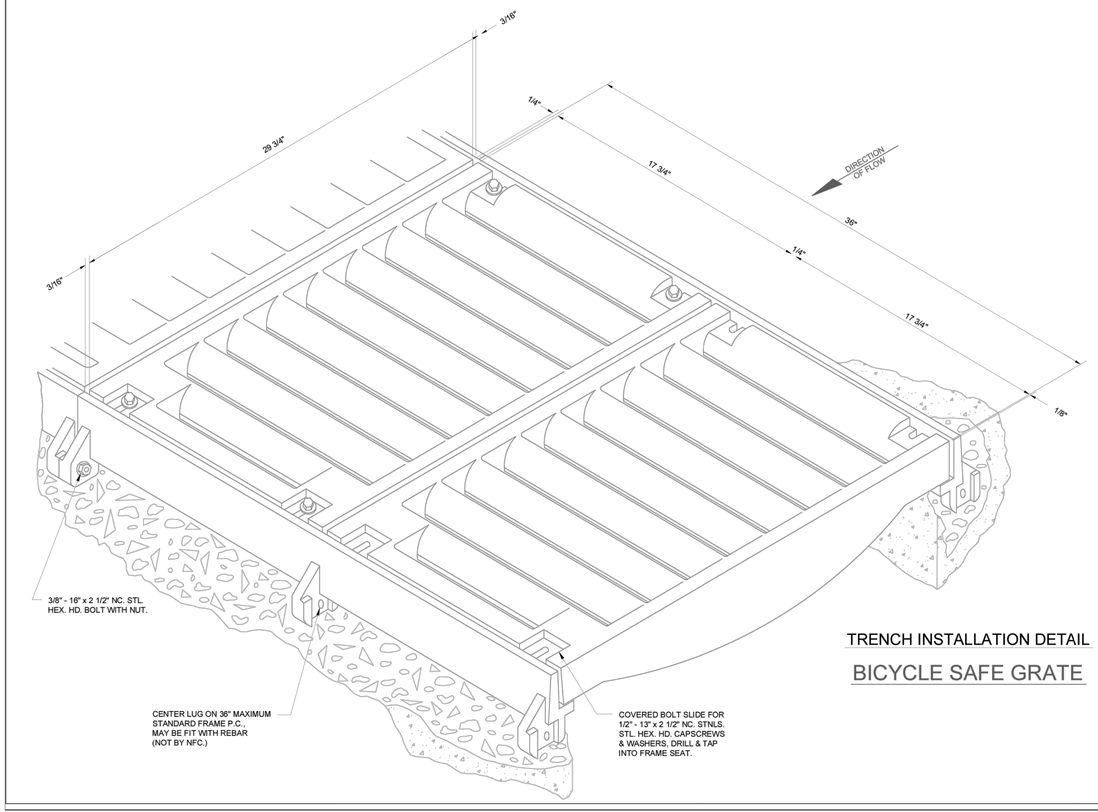


PLAN

BICYCLE SAFE GRATE

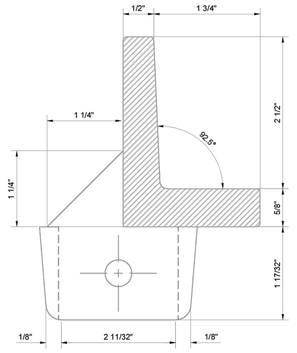






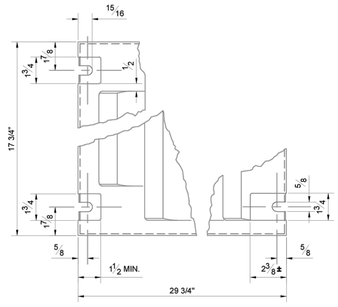
TRENCH INSTALLATION DETAIL

BICYCLE SAFE GRATE



SECTION THRU TYPE "X" FRAME

TRENCH INSTALLATION ONLY
4 X SCALE



BOLT SLOT DETAIL

TRENCH INSTALLATION ONLY

NOTES:

1. ALL CONSTRUCTION METHODS & MATERIAL REQUIREMENTS SHALL BE IN ACCORDANCE WITH THE CURRENT SPECIFICATIONS.
2. SHARP EDGES RESULTING EDGES RESULTING FROM FABRICATION SHALL BE DULLED BY ANY ACCEPTABLE METHOD FOR SAFETY IN HANDLING.
3. GRATES SHALL BE INSTALLED IN FRAME WITH FLOW ARROW POINTING DOWNSTREAM OR TOWARD THE LOW POINT IN A SUMP.
4. CAST GRATES SHALL BE OF DUCTILE IRON CONTAINING THE REQUIREMENTS OF ASTM A-536, GRADE 65-45-12, OR OF GRAY IRON CONFORMING TO THE REQUIREMENTS OF AASHTO M-105 (OR ASTM - A-480, CASE 35B.)
5. FERROUS CASTINGS SHALL BE OF UNIFORM QUALITY, FREE OF BLOWHOLES, POROSITY, HARDSPOTS, SHRINKAGE DISTORTION OR OTHER DEFECTS.
6. CASTINGS SHALL BE SMOOTH & WELL CLEANED BY SHOT BLASTING OR OTHER APPROVED CLEANING.
7. ALL CASTINGS SHALL BE MANUFACTURED TRUE TO PATTERN; COMPONENT PARTS SHALL FIT TOGETHER IN A SATISFACTORY MANNER.
8. ALL LETTERING SHALL BE RECESSED 1/16". REFERENCE NF-29927M NF-21808, & ORIGINAL REFERENCE 2669.

01 CICI GRATE

Scale: 1" = 1'

James R. Childers Architect, Inc.
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PROFESSIONAL SEAL:

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COREY W. LIPPS
21291
10/21/22

CONSULTANT LOGO:

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Oklahoma City, OK 73134
405-832-9900
www.parkhill.com
Oklahoma CA #4935, Expires 6/30/2023

CLIENT:

SEAL OF THE CHEROKEE NATION ESTABLISHED SEPT. 6, 1839

CHEROKEE NATION
W.W. HASTINGS REPLACEMENT HOSPITAL
TAHLEQUAH, OKLAHOMA

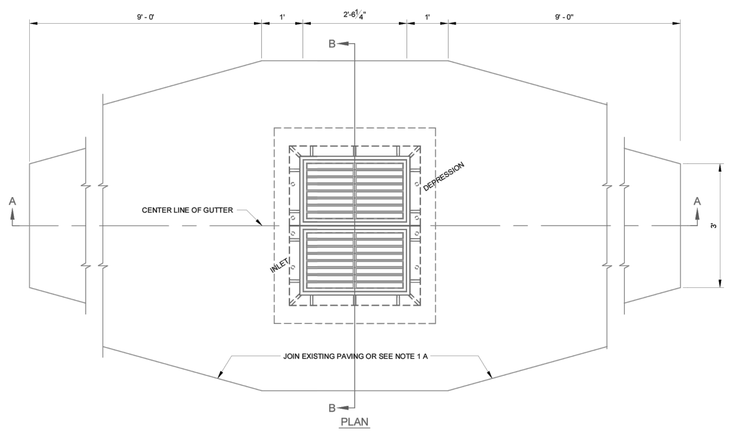
KEY PLAN:

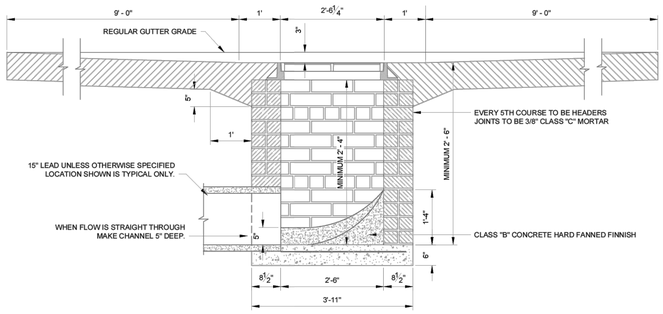
PROJECT PHASE:
BID PACKAGE 02
(SITE DEMOLITION AND UTILITIES)

REVISIONS

JOB NUMBER: 21-08.21
DATE: 10-21-2022
SHEET NUMBER: C6-508
SHEET TITLE: CICI GRATE

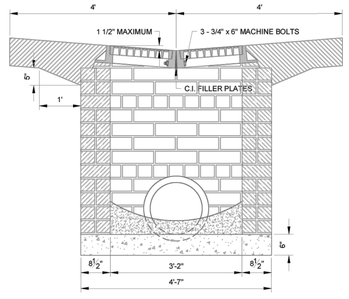
10/21/2022 A:\2021\5123.21\03_DSGN\01_DWG\050_CIVIL\C6-DETL-5123.DWG





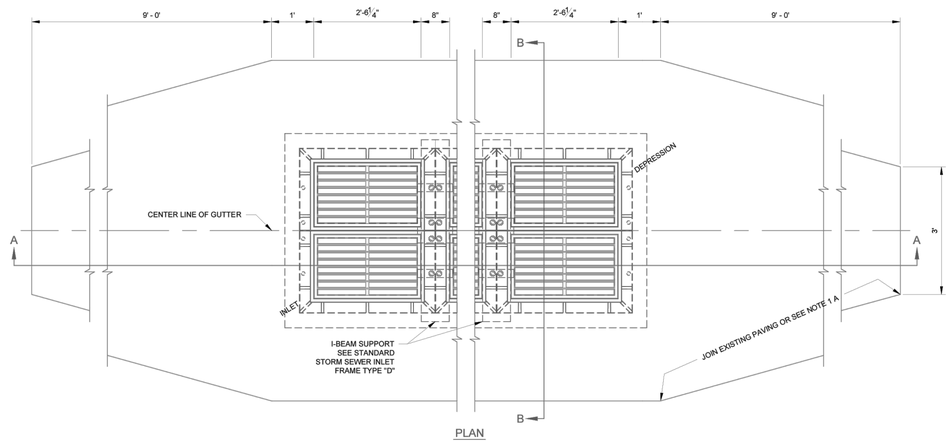
STORM SEWER INLET

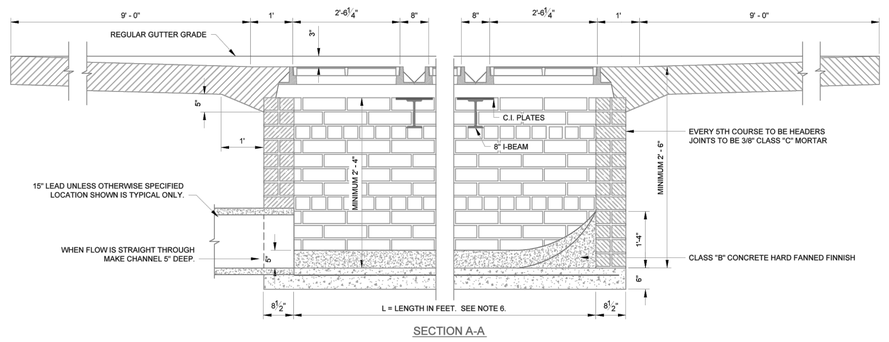
DESIGN #6 (DOUBLE GRATINGS)



GENERAL NOTES:

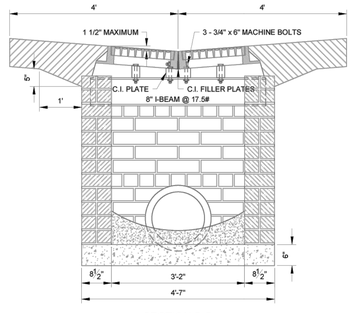
1. A. WHEN INLET IS BUILT IN NEW PAVEMENT, THE PAVEMENT SHALL BE MONOLITHIC WITH NEW PAVEMENT AND CONFORM TO PLANS AND SPECIFICATIONS THEREOF.
   B. WHEN INLET IS BUILT IN EXISTING PAVEMENT THE TYPES OF INLET PAVEMENT SHALL CONFORM TO THAT OF THE ADJACENT SLAB UNLESS OTHERWISE PROVIDED IN SPECIAL PROVISIONS.
2. CAST IRON STEPS SHALL BE PLACED IN ALL INLETS 3' OR MORE IN DEPTH IN CONFORMITY WITH STANDARD SPECIFICATIONS.
3. THE GRATING TO BE USED IN THIS STRUCTURE WILL BE SHOWN ON THE PLANS OR DESIGNATED IN SPECIAL PROVISIONS.
4. THIS STRUCTURE WILL BE DESIGNATED ON PLANS AS INLET NUMBER 6.
5. BASIS OF PAYMENT FOR INLETS WILL BE FOR A LUMP SUM INCLUDING REMOVAL AND REPLACEMENT OF EXISTING PAVEMENT.





STORM SEWER INLET

DESIGN #7 (MULTIPLE GRATINGS)



GENERAL NOTES:

1. A. WHEN INLET IS BUILT IN NEW PAVEMENT, THE PAVEMENT SHALL BE MONOLITHIC WITH NEW PAVEMENT AND CONFORM TO PLANS AND SPECIFICATIONS THEREOF.
   B. WHEN INLET IS BUILT IN EXISTING PAVEMENT THE TYPES OF INLET PAVEMENT SHALL CONFORM TO THAT OF THE ADJACENT SLAB UNLESS OTHERWISE PROVIDED IN SPECIAL PROVISIONS.
2. CAST IRON STEPS SHALL BE PLACED IN ALL INLETS 3' OR MORE IN DEPTH IN CONFORMITY WITH STANDARD SPECIFICATIONS.
3. THE GRATING TO BE USED IN THIS STRUCTURE WILL BE SHOWN ON THE PLANS OR DESIGNATED IN SPECIAL PROVISIONS.
4. THIS STRUCTURE WILL BE DESIGNATED ON PLANS AS INLET NUMBER 7-X (IN WHICH X = NUMBER OF DOUBLE GRATING).
5. BASIS OF PAYMENT FOR INLETS WILL BE FOR A LUMP SUM INCLUDING REMOVAL AND REPLACEMENT OF EXISTING PAVEMENT.
6. L = (3.18 N) - 0.66 IN WHICH N = THE NUMBER OF DOUBLE GRATINGS.

STRUCTURES SHALL BE REINFORCED CONCRETE STRUCTURES PER THE 334000 STORM DRAINAGE UTILITIES SPECIFICATION.

01 DESIGN 6 AND 7 GRATE INLET

Scale: NTS

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Oklahoma CA #4935, Expires 6/30/2023

CLIENT:

THE SEAL OF THE CHEROKEE NATION · SEPT. 6, 1839

CHEROKEE NATION
W.W. HASTINGS REPLACEMENT HOSPITAL
TAHLEQUAH, OKLAHOMA

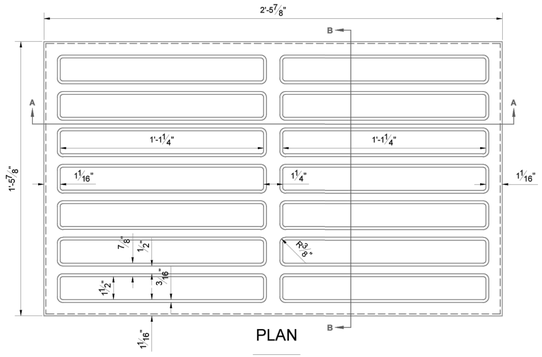
KEY PLAN:

PROJECT PHASE:
BID PACKAGE 02
(SITE DEMOLITION AND UTILITIES)

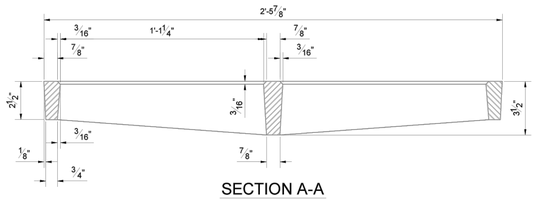
REVISIONS

JOB NUMBER: 21-08.21
DATE: 10-21-2022
SHEET NUMBER: **C6-509**
SHEET TITLE: DESIGN 6 AND 7 AREA INLET

10/21/2022 A:\2021\5123.21\03_DSGN\01_DWG\050_CIVIL\C6-DETL-5123.DWG



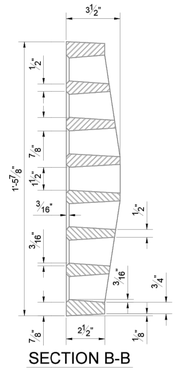
PLAN



SECTION A-A

STORM SEWER INLET GRATING

DETAIL OF TYPE "A" GRATING



SECTION B-B

CASTING WEIGHTS

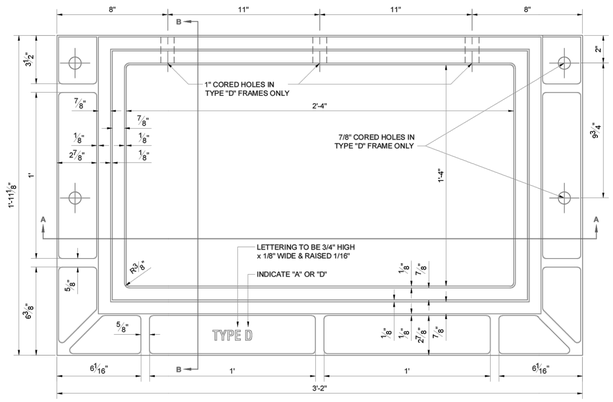
THE AVERAGE WEIGHT OF CASTINGS FURNISHED WILL NOT BE LESS THAN 98% OF WEIGHTS SHOWN BELOW.

WEIGHTS OF INDIVIDUAL CASTINGS SHALL NOT BE LESS THAN 95% OF WEIGHTS SHOWN BELOW.

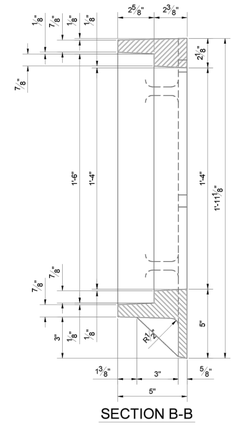
TYPE A FRAMES ONLY 250 LBS.
TYPE B FRAMES ONLY 195 LBS.
TYPE C FRAMES ONLY 210 LBS.
TYPE A GRATES ONLY 145 LBS.

NOTE

GRATING SHALL CONFORM TO THE A.S.T.M. SPECIFICATIONS FOR GRAY IRON CASTINGS SERIAL DESIGNATION A-48-29.



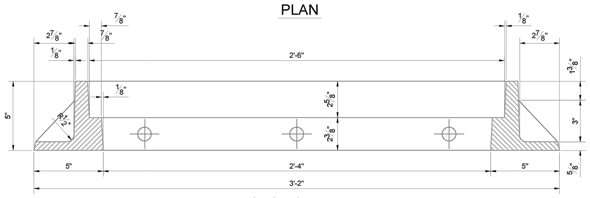
PLAN



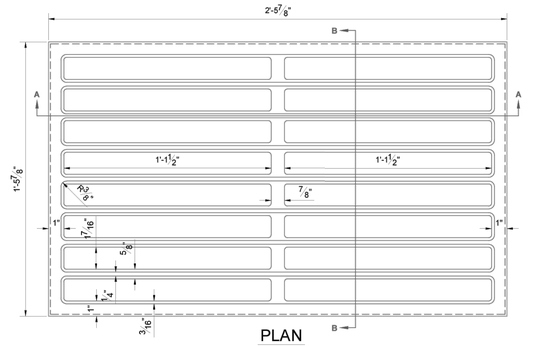
SECTION B-B

STORM SEWER INLET FRAME

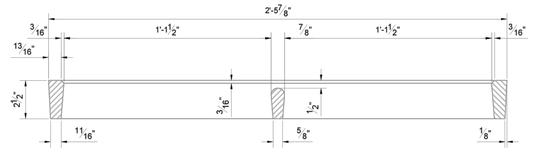
TYPE "D" & TYPE "A"



SECTION A-A



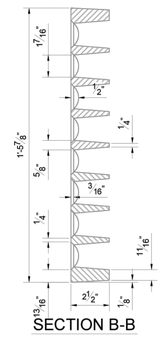
PLAN



SECTION A-A

STORM SEWER INLET GRATING

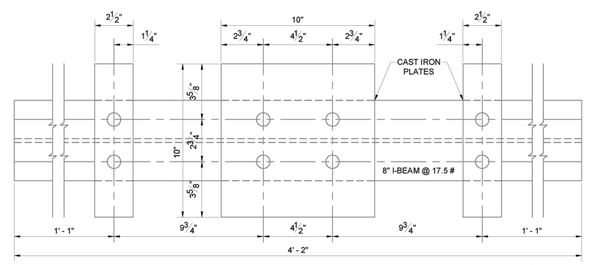
DETAIL OF TYPE "B" GRATING



SECTION B-B

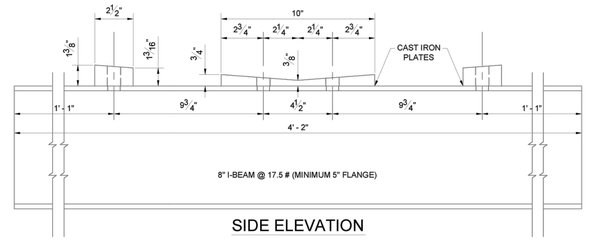
NOTE

GRATING SHALL CONFORM TO THE A.S.T.M. SPECIFICATIONS FOR STEEL CASTINGS SERIAL DESIGNATION A-27-24.
CASTINGS SHALL BE CL "B" HARD STEEL.



PLAN

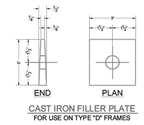
7/8" CORED HOLES IN C.I. PLATES AND 13/13" PUNCHED OR DRILLED HOLES IN FLANGE OF I-BEAM.



SIDE ELEVATION

DETAILS OF I-BEAM SUPPORT

FOR INLET #7 ONLY



CAST IRON FILLER PLATE
FOR USE ON TYPE "D" FRAMES

GENERAL NOTES

1. CASTINGS SHALL CONFORM TO THE A.S.T.M. SPECIFICATIONS FOR GRAY IRON CASTINGS. SERIAL DESIGNATION A-48-26.
2. NO WORDING OR MARKINGS OF ANY KIND OTHER THAN THOSE SHOWN ON THE PLANS WILL BE PERMITTED ON THESE CASTINGS.
3. TYPE "A" FRAMES DO NOT REQUIRE APPURTENANCES OF ANY KIND.
4. TYPE "D" FRAMES REQUIRE THREE 3/4" x 6" MACHINE BOLTS WITH NUTS AND THREE CAST IRON FILLER PLATES WITH EACH DOUBLE FRAME.
5. THE NUMBER OF I-BEAM SUPPORTS REQUIRED FOR INLET DESIGN #7 IS ONE LESS THAN THE NUMBER OF DOUBLE FRAMES SPECIFIED. FOUR 3/4" x 2 1/2" AND FOUR 3/4" x 3 1/2" MACHINE BOLTS WITH NUTS ARE REQUIRED FOR EACH I-BEAM SUPPORT.
6. TYPE "A" GRATE IS FOR INLET DESIGN #1. TYPE "D" GRATE IS FOR INLET DESIGN #3 & 7.

01 GRATE AND FRAME FOR AREA INLET

Scale: 1" = 1'

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479-783-2480
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REGISTERED PROFESSIONAL ENGINEER
COREY W. LIPPS
21291
10/21/22

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SEPT. 6, 1839

CHEROKEE NATION
W.W. HASTINGS REPLACEMENT HOSPITAL
TAHLEQUAH, OKLAHOMA

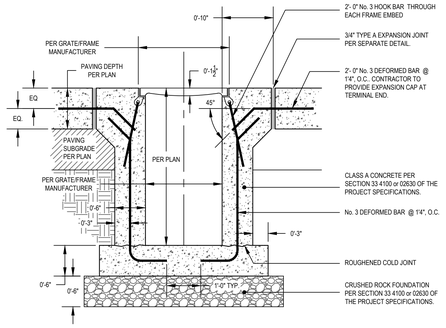
KEY PLAN:

PROJECT PHASE:
BID PACKAGE 02
(SITE DEMOLITION AND UTILITIES)

REVISIONS

JOB NUMBER: 21-08.21
DATE: 10-21-2022
SHEET NUMBER: **C6-510**
SHEET TITLE: GRATE AND FRAME FOR AREA INLET

10/21/2022 A:\2021\5123.21\03_DSGN\01_DWG\050_CIVIL\C6-DETL-5123.DWG



GENERAL NOTES

1. GRATE AND FRAME SHALL BE NEENAH R-4990 (UNBOLTED) / R-4999 (BOLTED) OR APPROVED EQUAL. GRATE TYPE AND WIDTH SHALL BE PER PLAN.
2. TRENCH CONSTRUCTION SHALL BE PERFORMED PER GRATE AND FRAME MANUFACTURER'S RECOMMENDATIONS.
3. REINFORCING SHOWN IS TYPICAL. CONTRACTOR RESPONSIBLE FOR MAKING FIELD ADJUSTMENTS IN REINFORCEMENT AS REQUIRED TO PERMIT COMPLETION OF THE SCOPE OF WORK.
4. ALL REINFORCING SHALL BE No. 3 BARS UNLESS SPECIFIED DIFFERENTLY ELSEWHERE IN THE CONSTRUCTION DOCUMENTS OR BY THE GRATE AND FRAME MANUFACTURER.

1 CAST-IRON TRENCH DRAIN

Scale: 1" = 1'

10/21/2022 A:\2021\5123\21\03_DSGN\01_DWG\050_CIVIL\C6-DETL-5123.DWG

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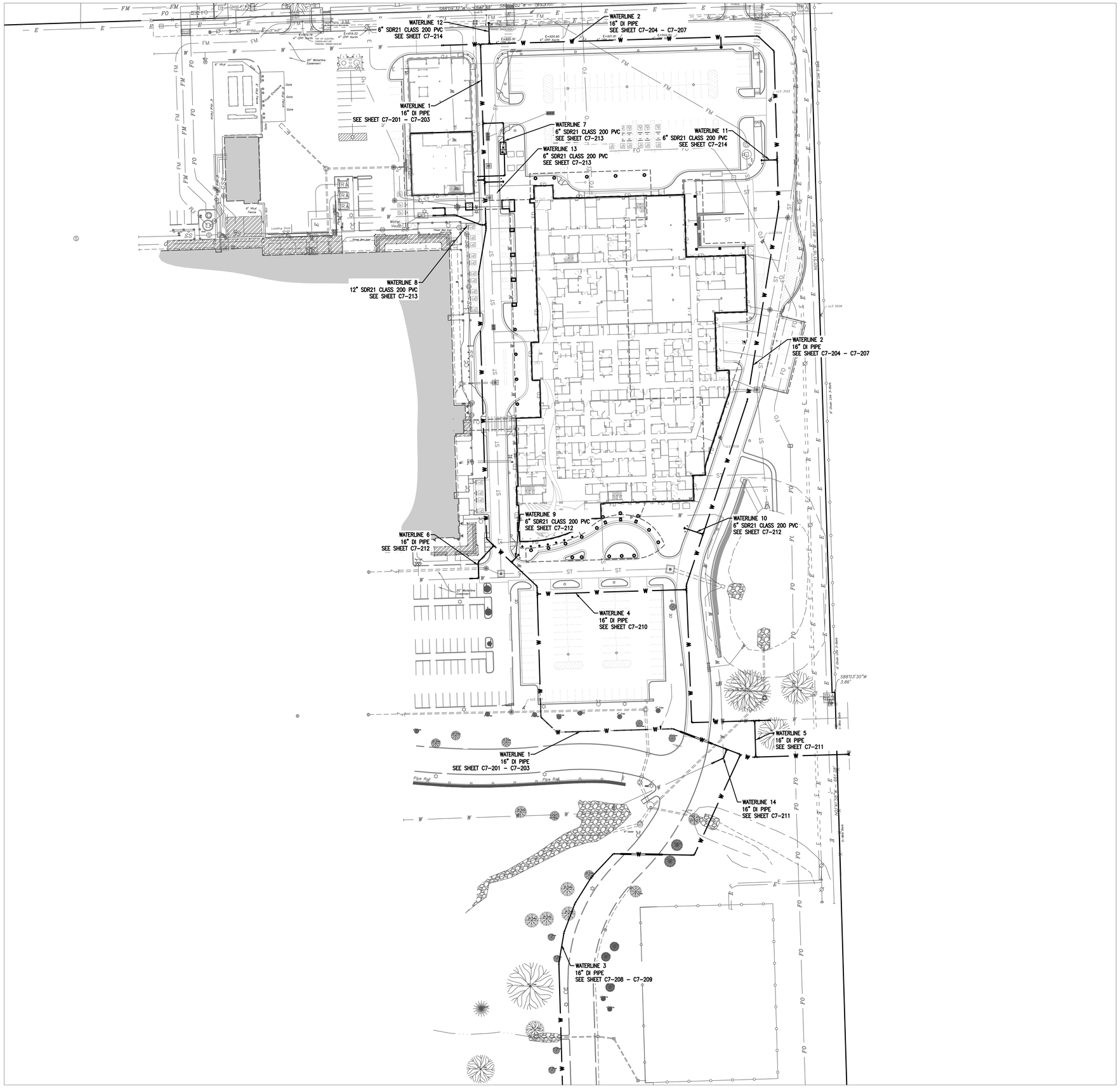
TAHLEQUAH, OKLAHOMA

KEY PLAN:

PROJECT PHASE:
BID PACKAGE 02
(SITE DEMOLITION AND UTILITIES)

REVISIONS

JOB NUMBER: 21-08.21
DATE: 10-21-2022
SHEET NUMBER: **C6-511**
SHEET TITLE: STORM DRAIN DETAILS



0' 50' 100' 200'

SCALE: 1" = 50'

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UTILITY WARNING:
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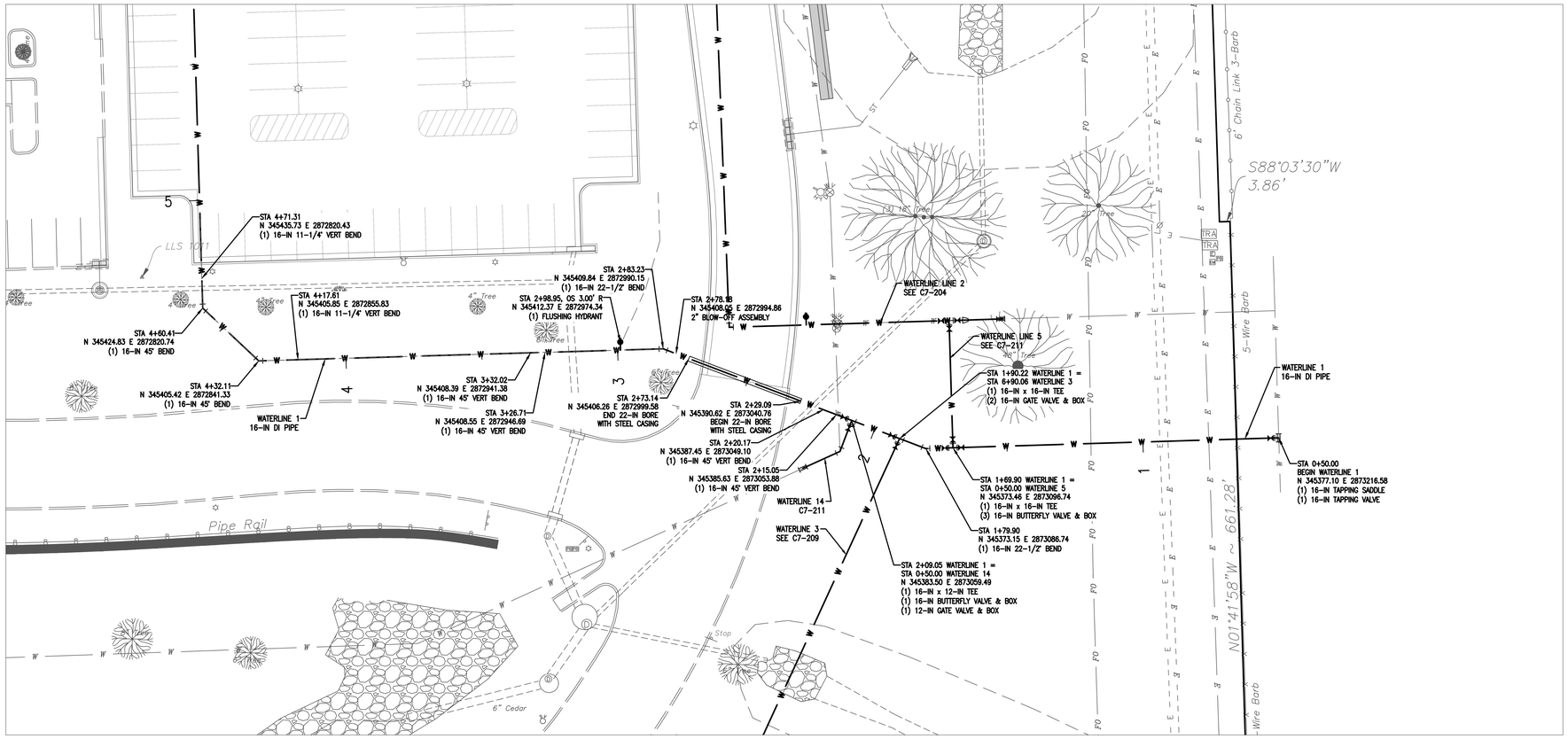
KEY PLAN:

PROJECT PHASE:
BID PACKAGE 02
(SITE DEMOLITION AND UTILITIES)

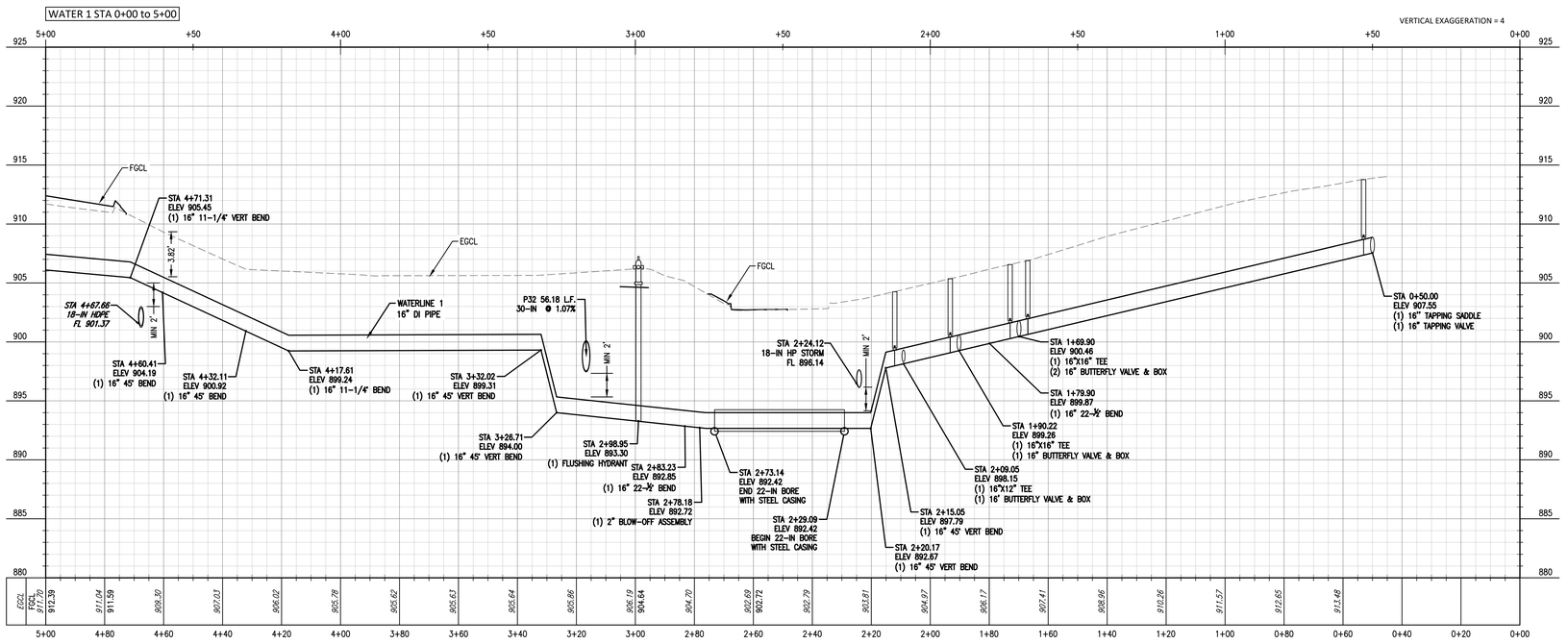
REVISIONS

JOB NUMBER: 21-08.21
DATE: 10-21-2022
SHEET NUMBER: **C7-101**
SHEET TITLE: OVERALL WATER PLAN

10/21/2022 A:\2021\5123.21\03_DSGN\01_DWG\050_CIVIL\C7-WATR-5123.DWG



NOTES:
1. BELL RESTRAINTS SHALL BE USED WITHIN 40' IN ALL DIRECTIONS OF MECHANICAL JOINTS.



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SEPT. 6, 1839

CHEROKEE NATION
W.W. HASTINGS REPLACEMENT HOSPITAL
TAHLEQUAH, OKLAHOMA

KEY PLAN:

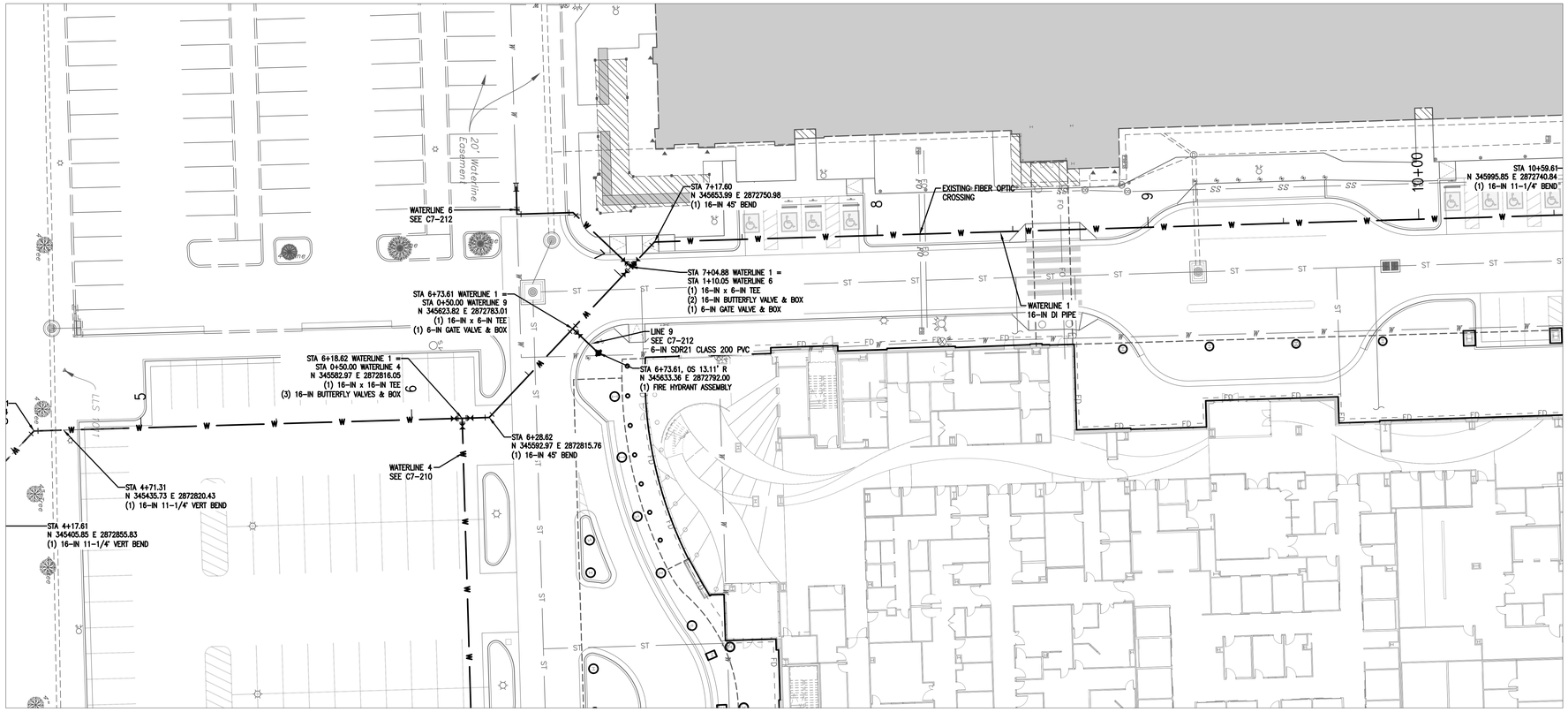
PROJECT PHASE:
BID PACKAGE 02
(SITE DEMOLITION AND UTILITIES)

REVISIONS

0' 20' 40' 80'
SCALE: 1" = 20'

JOB NUMBER: 21-08.21
DATE: 10-21-2022
SHEET NUMBER: C7-201
SHEET TITLE: WATER 1 PLAN AND PROFILE

10/21/2022 A:\2021\5123\103_DSGN\01_DWG\050_CIVIL\C7-WATR-5123.DWG



NOTES:
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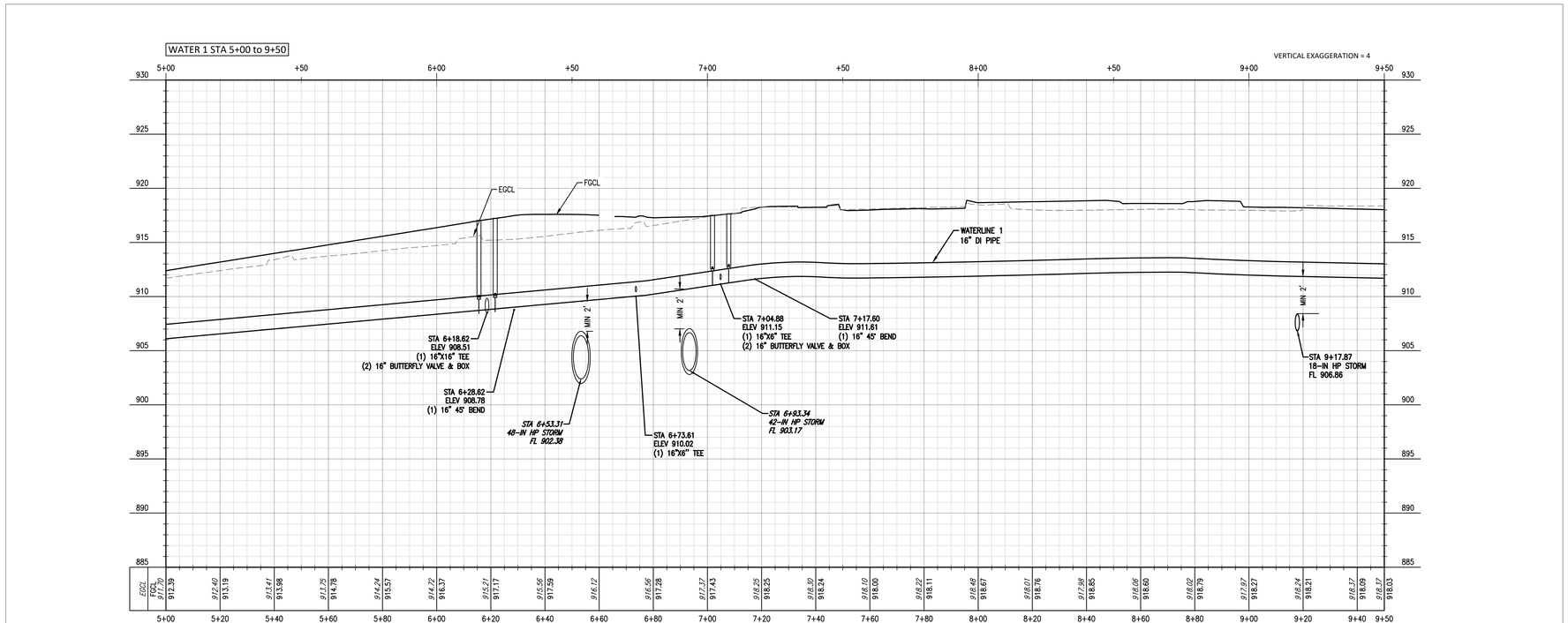

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SEPT. 6, 1839

CHEROKEE NATION
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TAHLEQUAH, OKLAHOMA

KEY PLAN:

PROJECT PHASE:
BID PACKAGE 02
(SITE DEMOLITION AND UTILITIES)

REVISIONS

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SCALE: 1" = 20'

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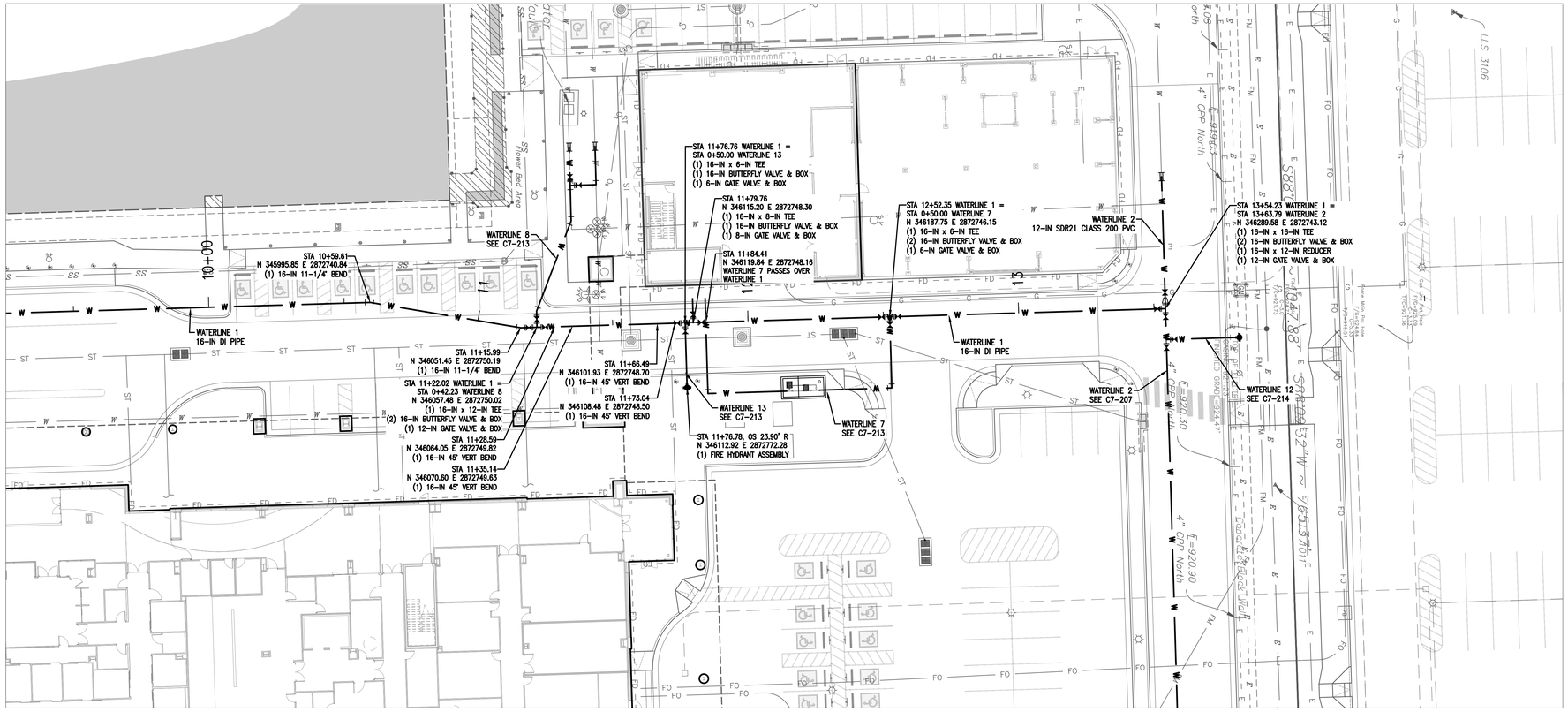
JOB NUMBER: 21-08.21
DATE: 10-21-2022
SHEET NUMBER: **C7-202**
SHEET TITLE: WATER 1 PLAN AND PROFILE

10/21/2022 A:\2021\5123\103_DSGN\01_DWG\050_CIVIL\C7-WATR-5123.DWG



NOTES:
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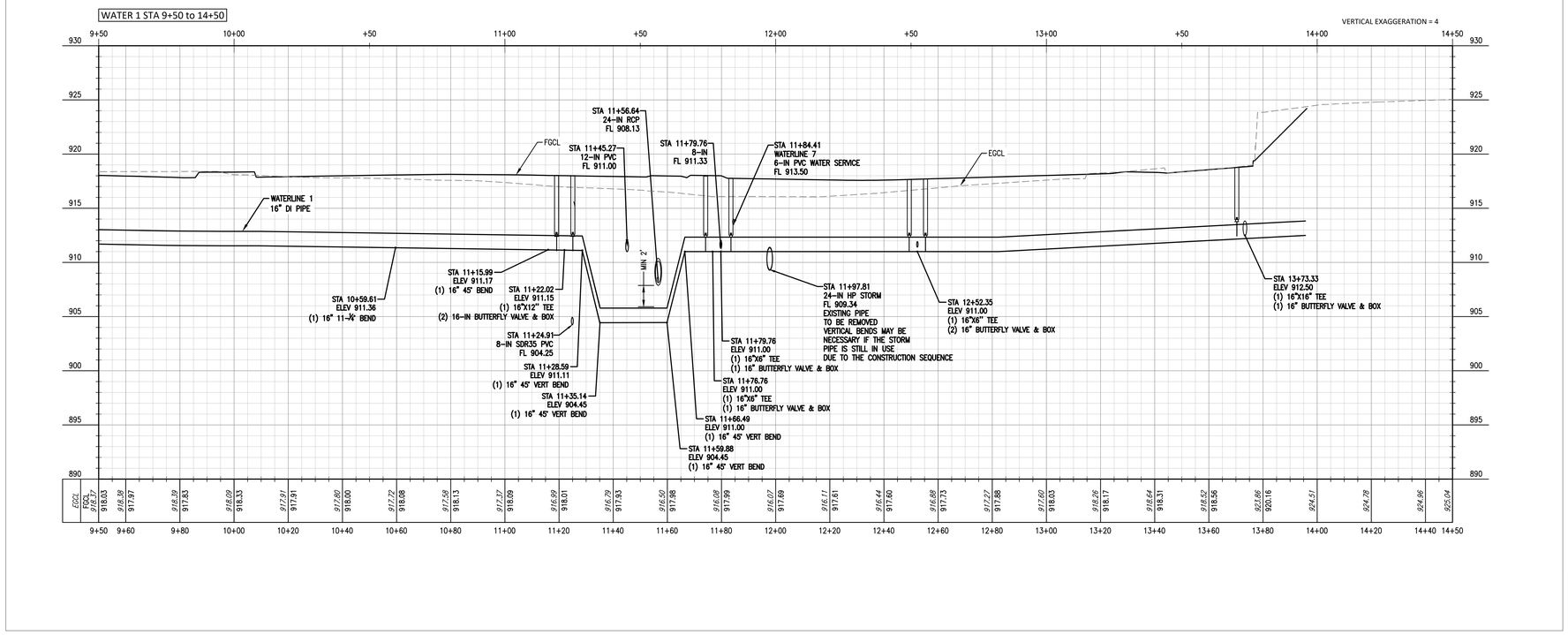

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CLIENT:
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SEPT. 6, 1839

CHEROKEE NATION
W.W. HASTINGS REPLACEMENT HOSPITAL
TAHLEQUAH, OKLAHOMA

KEY PLAN:

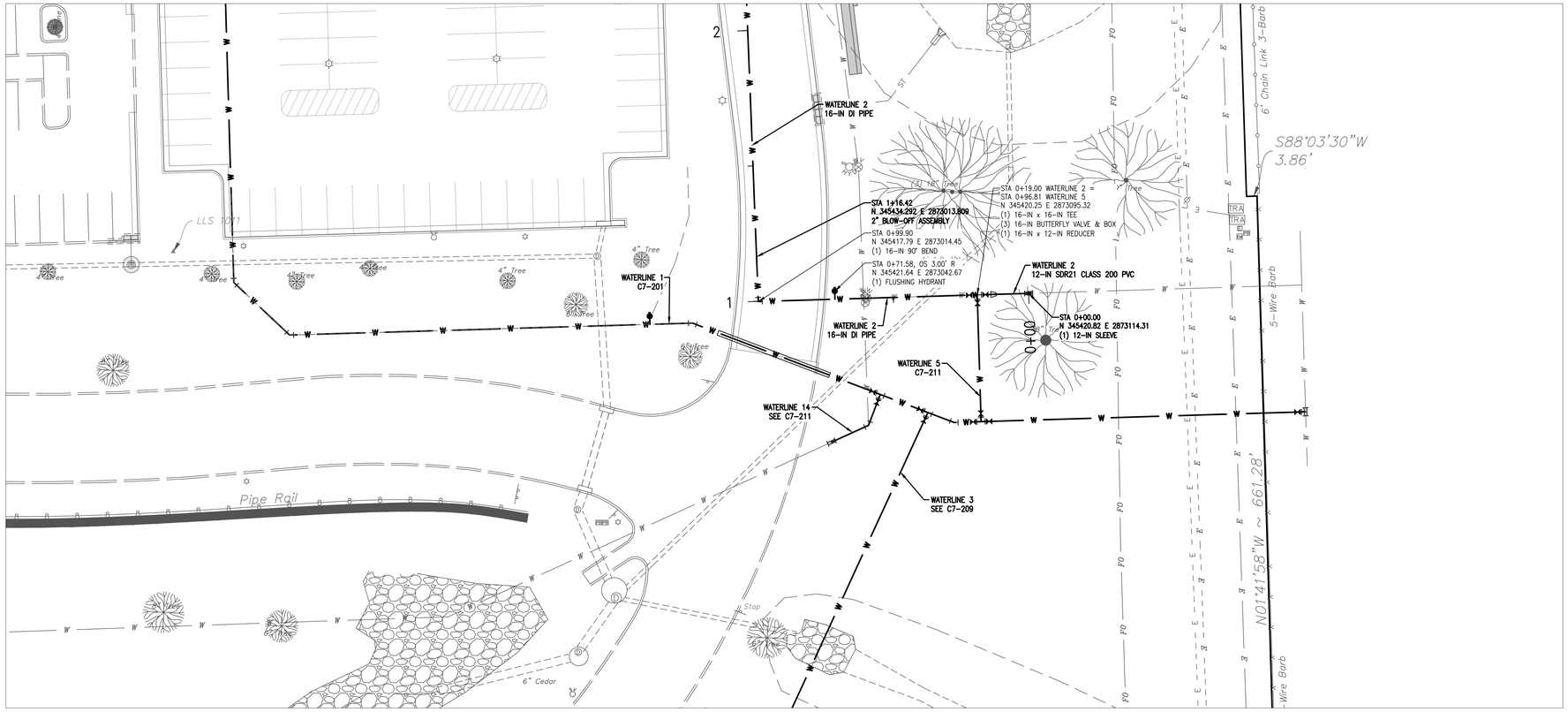
PROJECT PHASE:
BID PACKAGE 02
(SITE DEMOLITION AND UTILITIES)

REVISIONS

0' 20' 40' 80'
SCALE: 1" = 20'

JOB NUMBER: 21-08.21
DATE: 10-21-2022
SHEET NUMBER: **C7-203**
SHEET TITLE: WATER 1 PLAN AND PROFILE

10/21/2022 A:\2021\5123\01_DWG\050_CIVIL\C7-WATR-5123.DWG



NOTES:
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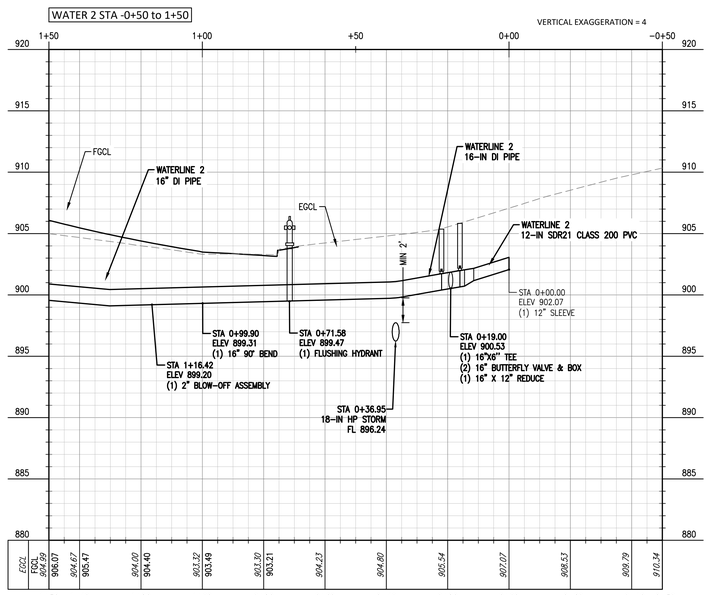

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W.W. HASTINGS REPLACEMENT HOSPITAL
TAHLEQUAH, OKLAHOMA

KEY PLAN:

PROJECT PHASE:
BID PACKAGE 02
(SITE DEMOLITION AND UTILITIES)

REVISIONS

0' 20' 40' 80'
SCALE: 1" = 20'

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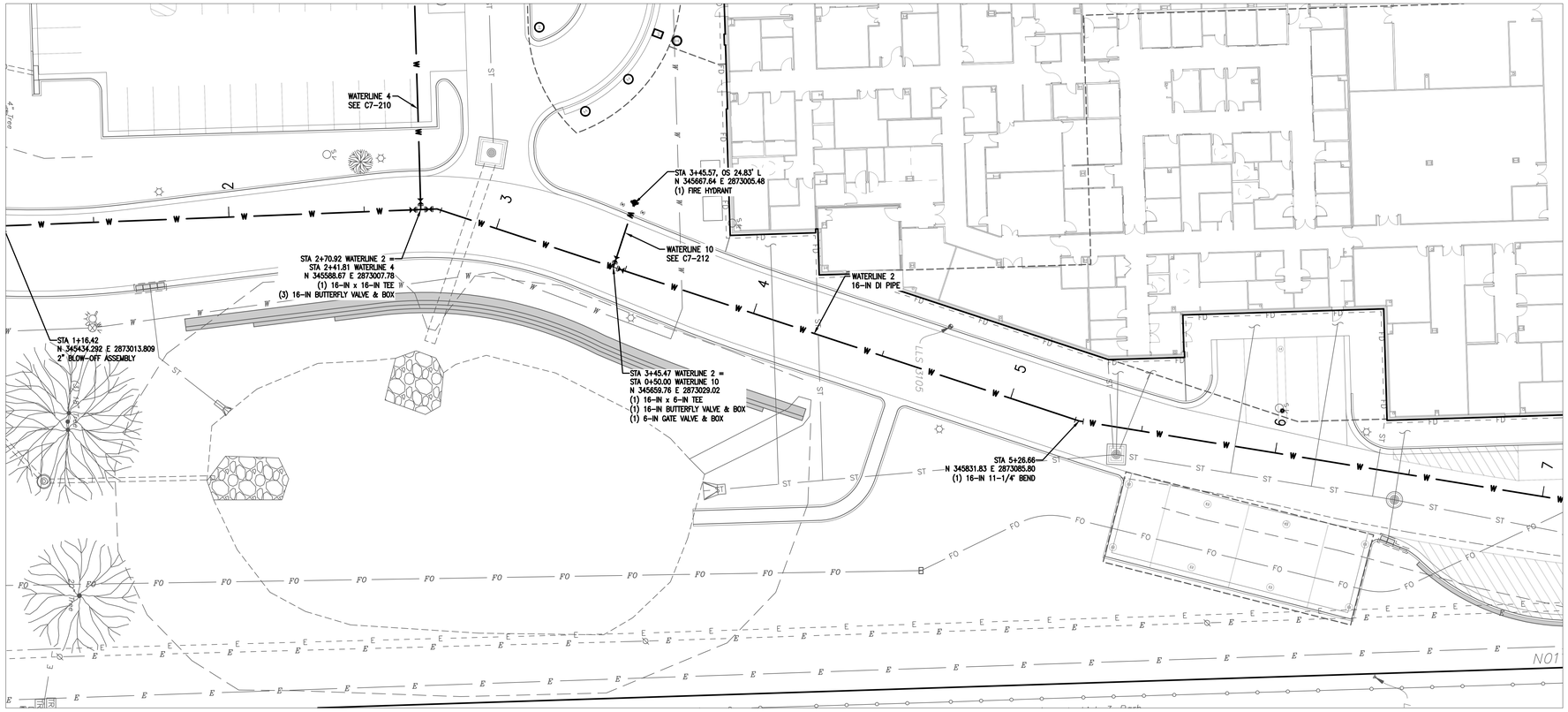
JOB NUMBER: 21-08.21
DATE: 10-21-2022
SHEET NUMBER: **C7-204**
SHEET TITLE: WATER 2 PLAN AND PROFILE

10/21/2022 A:\2021\5123.21\03_DSGN\01_DWG\050_CIVIL\C7-WATR-5123.DWG



NOTES:
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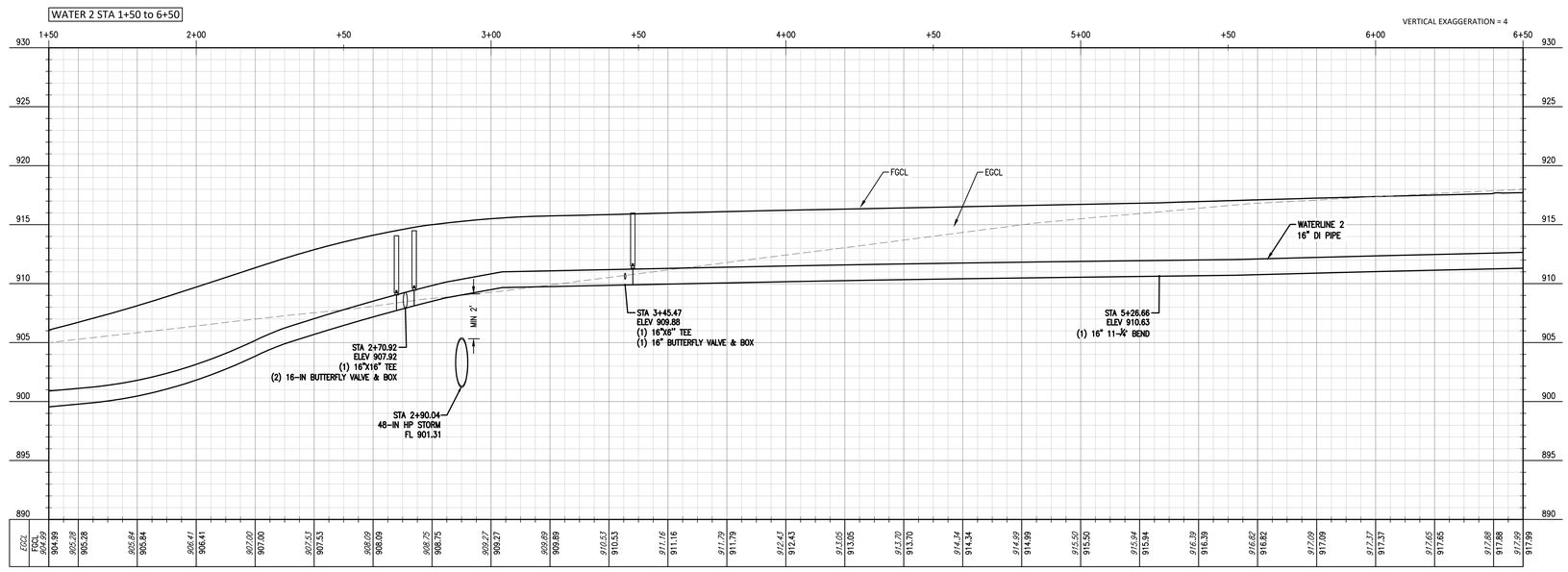

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SEPT. 6, 1839

CHEROKEE NATION
W.W. HASTINGS REPLACEMENT HOSPITAL
TAHLEQUAH, OKLAHOMA

KEY PLAN:

PROJECT PHASE:
BID PACKAGE 02
(SITE DEMOLITION AND UTILITIES)

REVISIONS

0' 20' 40' 80'
SCALE: 1" = 20'

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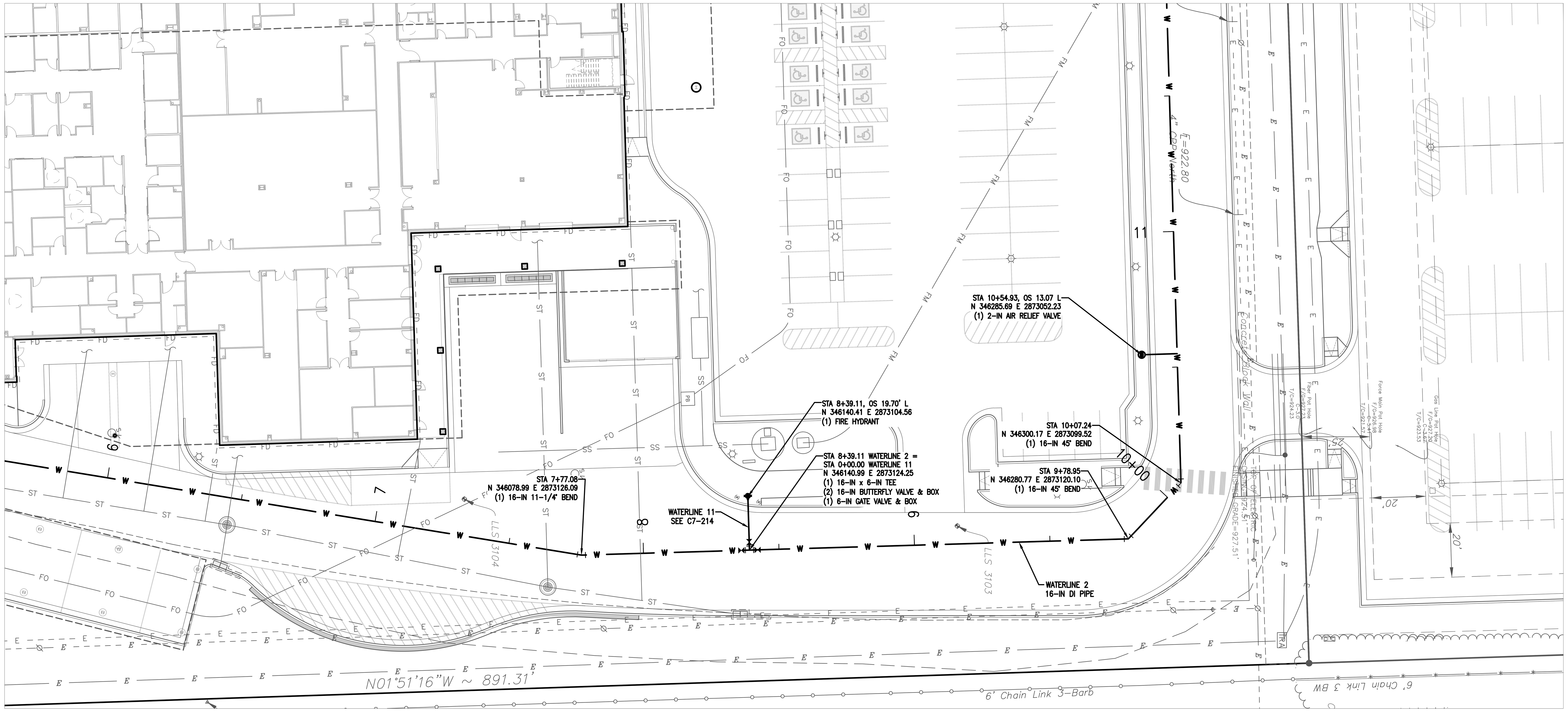
JOB NUMBER: 21-08.21
DATE: 10-21-2022
SHEET NUMBER: **C7-205**
SHEET TITLE: WATER 2 PLAN AND PROFILE

10/21/2022 A:\2021\5123\21\03_DSGN\01_DWG\050_CIVIL\C7-WATR-5123.DWG



NOTES:
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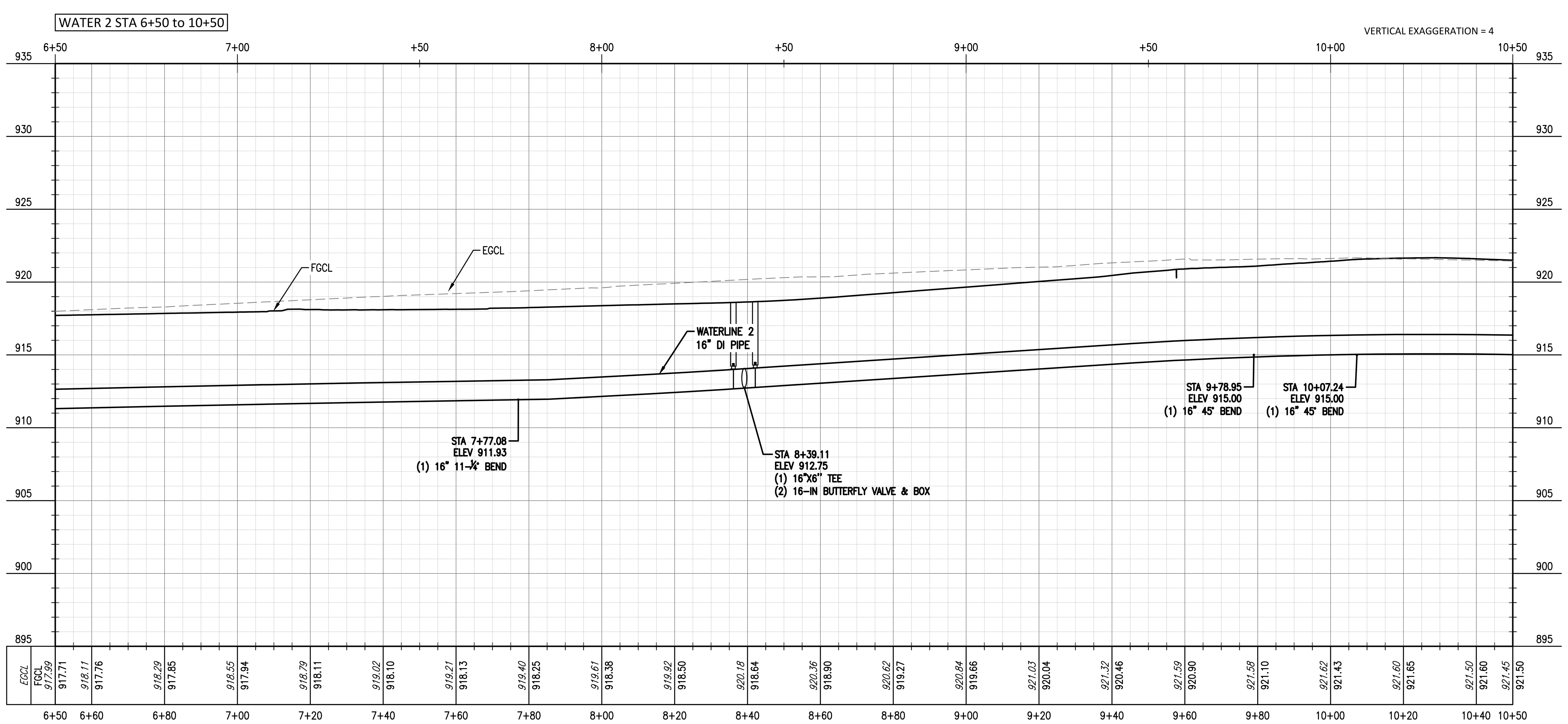

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6+60	918.11	917.76
6+80	918.29	917.85
7+00	918.55	917.94
7+20	918.79	918.11
7+40	919.02	918.10
7+60	919.21	918.13
7+80	919.40	918.25
8+00	919.61	918.38
8+20	919.92	918.50
8+40	920.18	918.64
8+60	920.36	918.90
8+80	920.62	919.27
9+00	920.84	919.66
9+20	921.03	920.04
9+40	921.32	920.46
9+60	921.59	920.90
9+80	921.58	921.10
10+00	921.62	921.43
10+20	921.60	921.65
10+40	921.50	921.60
10+50	921.45	921.50

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SCALE: 1" = 20'

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10/21/22

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405-832-9900
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Oklahoma CA #4935, Expires 6/30/2023

CLIENT:
SEAL OF THE CHEROKEE NATION SEPT. 6, 1839

CHEROKEE NATION
W.W. HASTINGS REPLACEMENT HOSPITAL
TAHLEQUAH, OKLAHOMA

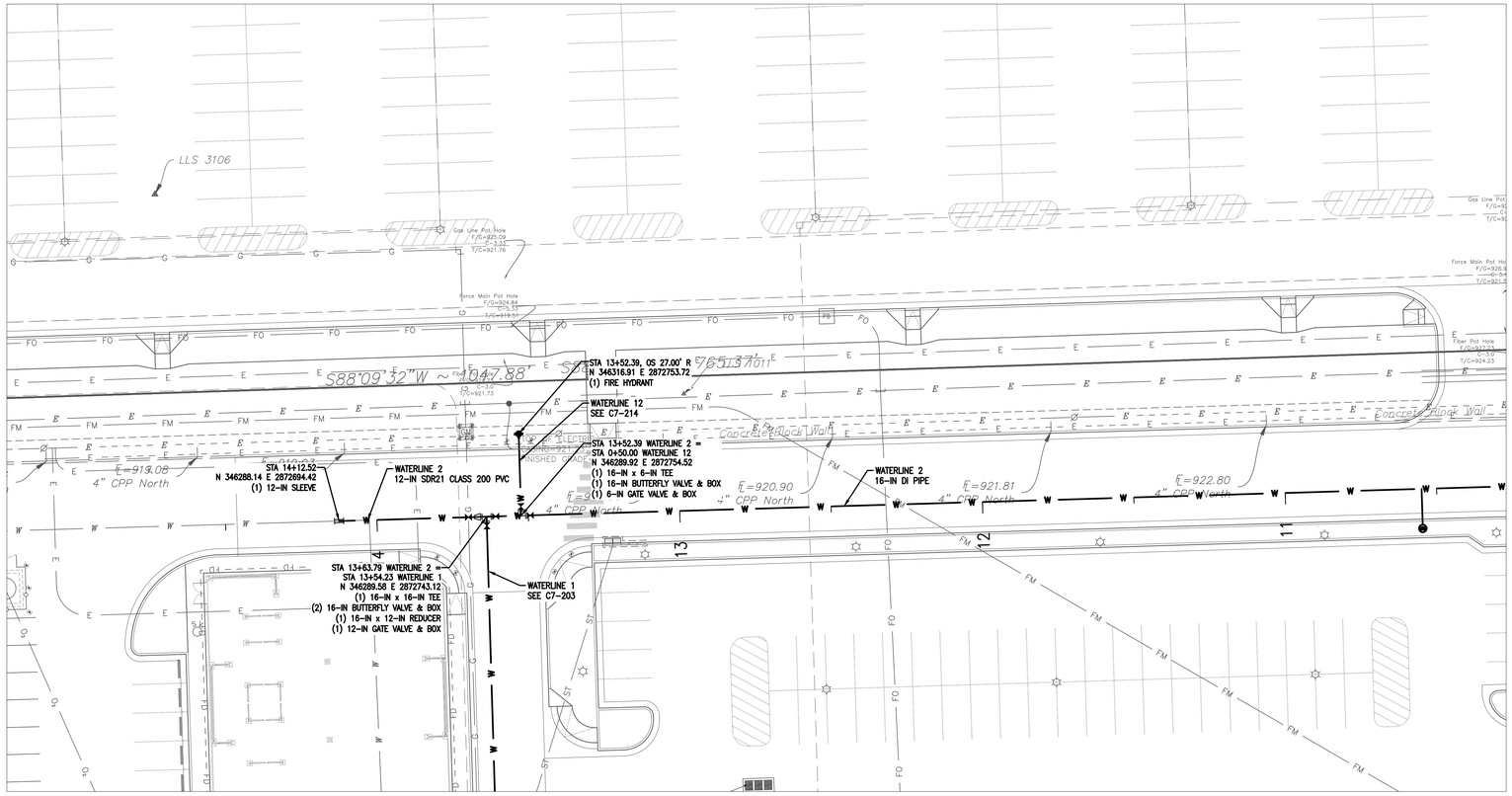
KEY PLAN:

PROJECT PHASE:
BID PACKAGE 02
(SITE DEMOLITION AND UTILITIES)

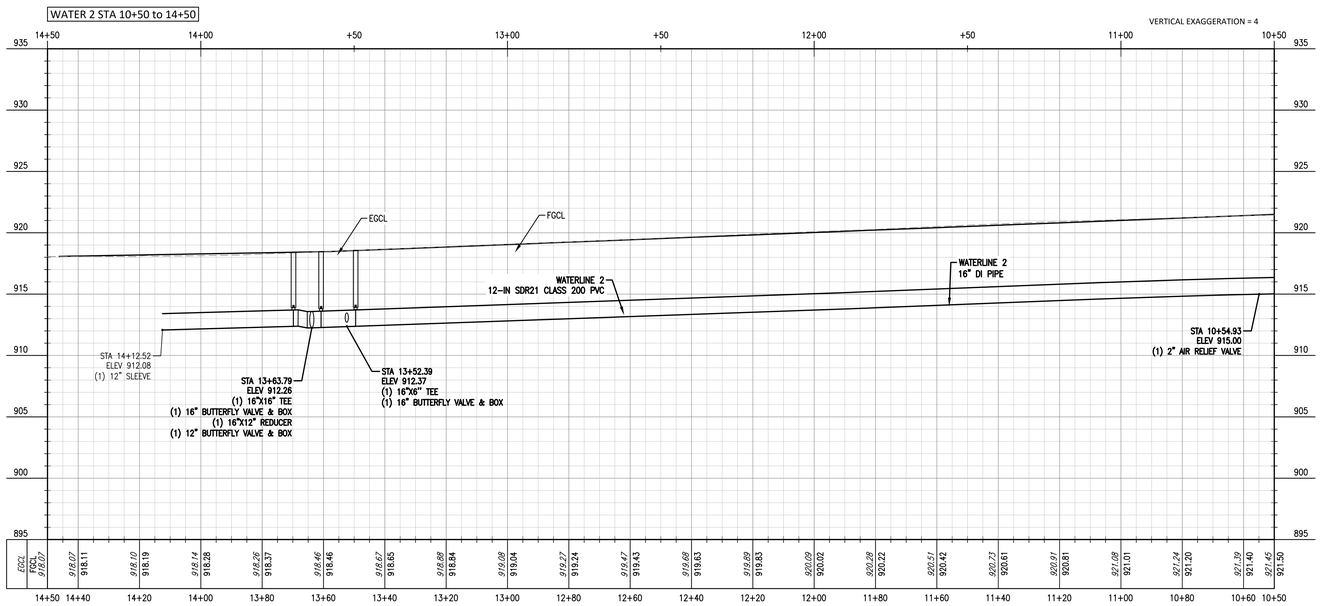
REVISIONS

JOB NUMBER: 21-08.21
DATE: 10-21-2022
SHEET NUMBER: **C7-206**
SHEET TITLE: WATER 2 PLAN AND PROFILE

10/21/2022 A:\2021\5123.21\03_DSGN\01_DWG\050_CIVIL\C7-WATR-5123.DWG



NOTES:
1. BELL RESTRAINTS SHALL BE USED WITHIN 40' IN ALL DIRECTIONS OF MECHANICAL JOINTS.



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CLIENT:

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W.W. HASTINGS REPLACEMENT HOSPITAL
TAHLEQUAH, OKLAHOMA

KEY PLAN:

PROJECT PHASE:
BID PACKAGE 02
(SITE DEMOLITION AND UTILITIES)

REVISIONS

0' 20' 40' 80'
SCALE: 1" = 20'

BEFORE YOU DIG
CALL OKIE
(800) 522-6543

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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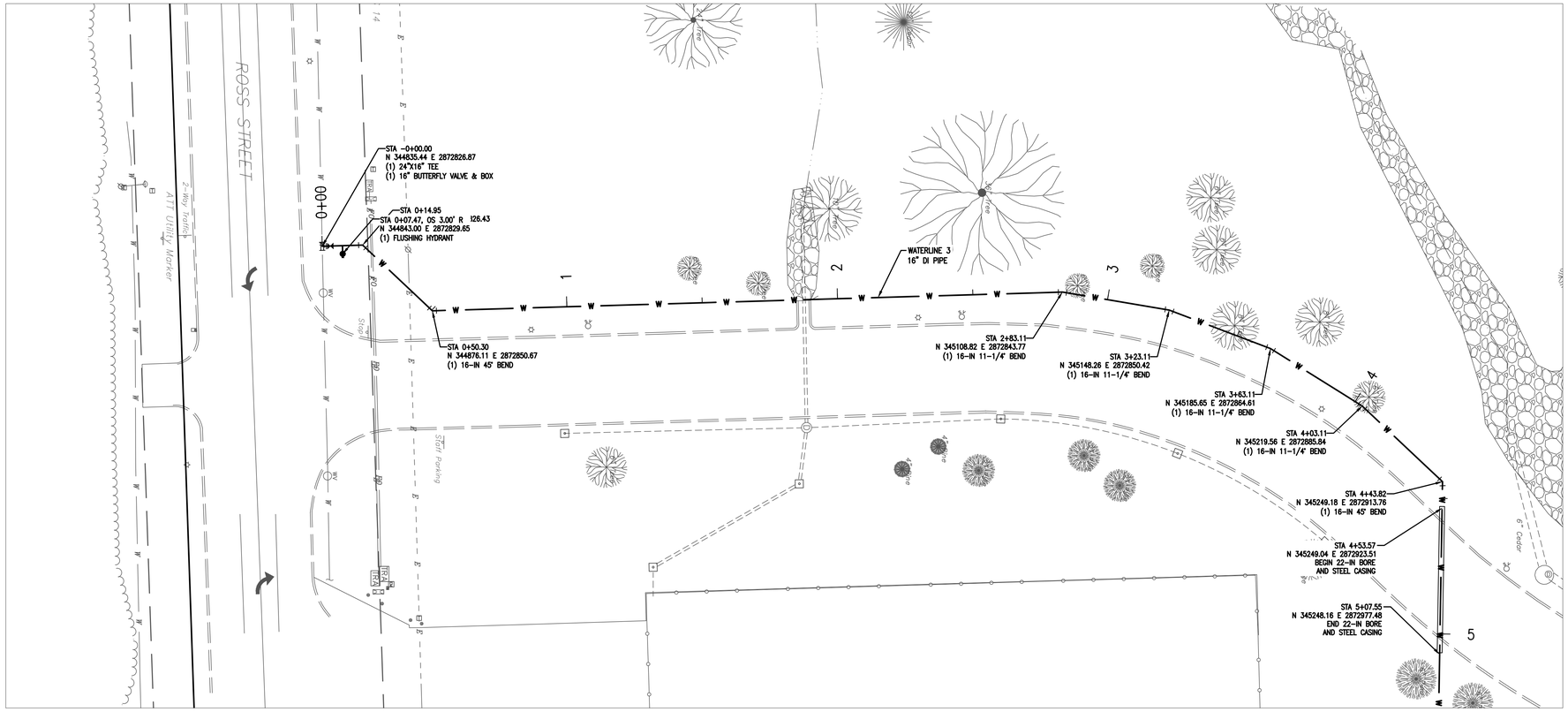
JOB NUMBER: 21-08.21
DATE: 10-21-2022
SHEET NUMBER: **C7-207**
SHEET TITLE: WATER 2 PLAN AND PROFILE

10/21/2022 A:\2021\5123.21\03_DSGN\01_DWG\050_CIVIL\C7-WATR-5123.DWG



NOTES:
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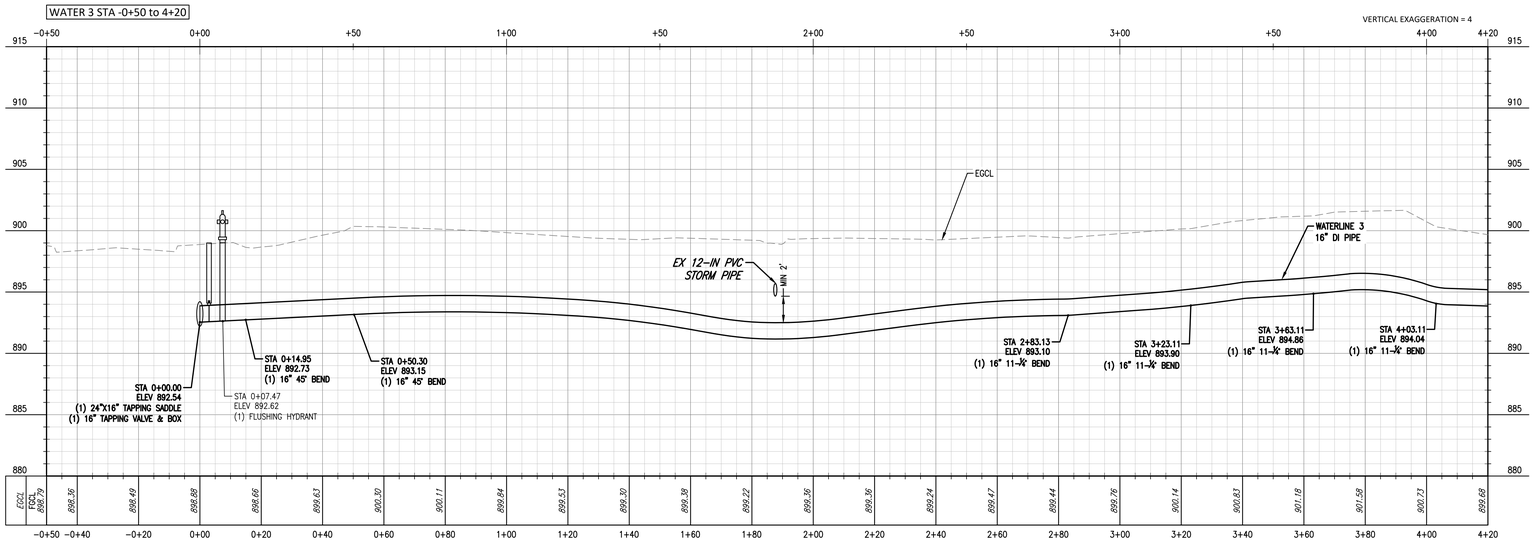

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10/21/22

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CLIENT:
SEAL OF THE CHEROKEE NATION ESTABLISHED SEPT. 6, 1839

CHEROKEE NATION
W.W. HASTINGS REPLACEMENT HOSPITAL
TAHLEQUAH, OKLAHOMA

KEY PLAN:

PROJECT PHASE:
BID PACKAGE 02
(SITE DEMOLITION AND UTILITIES)

REVISIONS

0' 20' 40' 80'
SCALE: 1" = 20'

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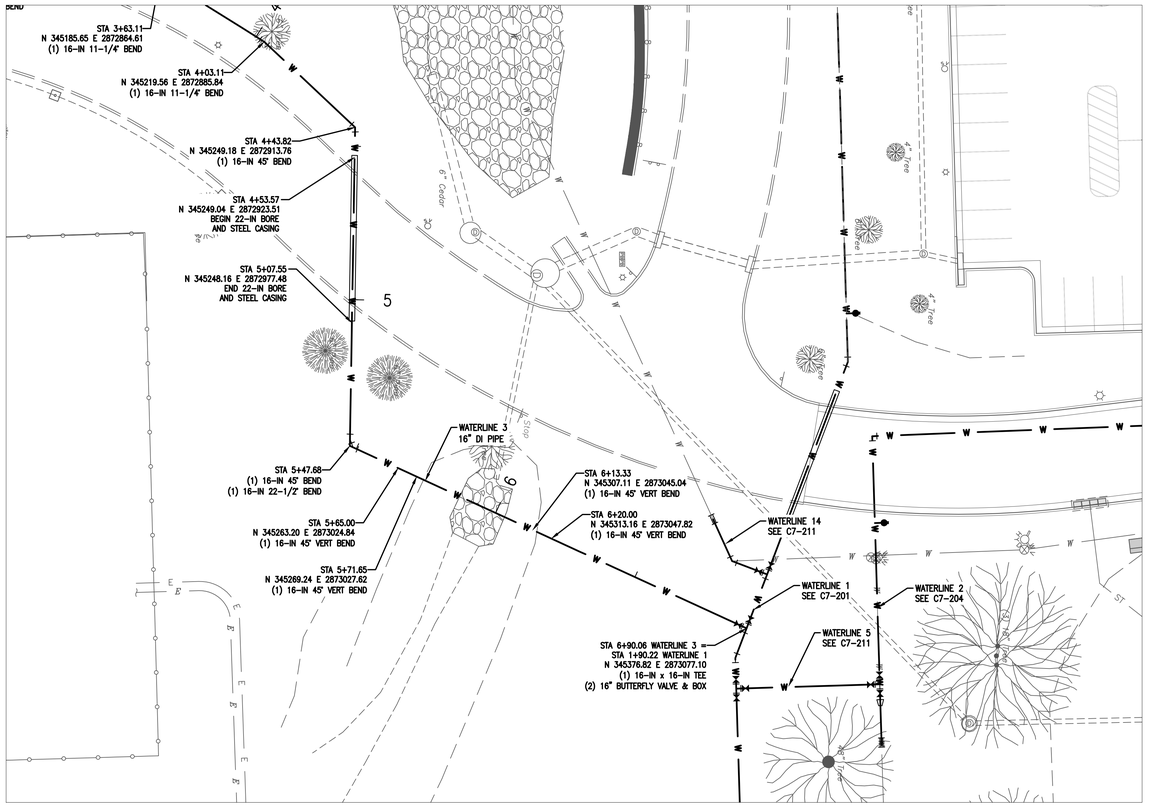
JOB NUMBER: 21-08.21
DATE: 10-21-2022
SHEET NUMBER: **C7-208**
SHEET TITLE: WATER 3 PLAN AND PROFILE

10/21/2022 A:\2021\5123.21\03_DSGN\01_DWG\050_CIVIL\C7-WATR-5123.DWG



NOTES:
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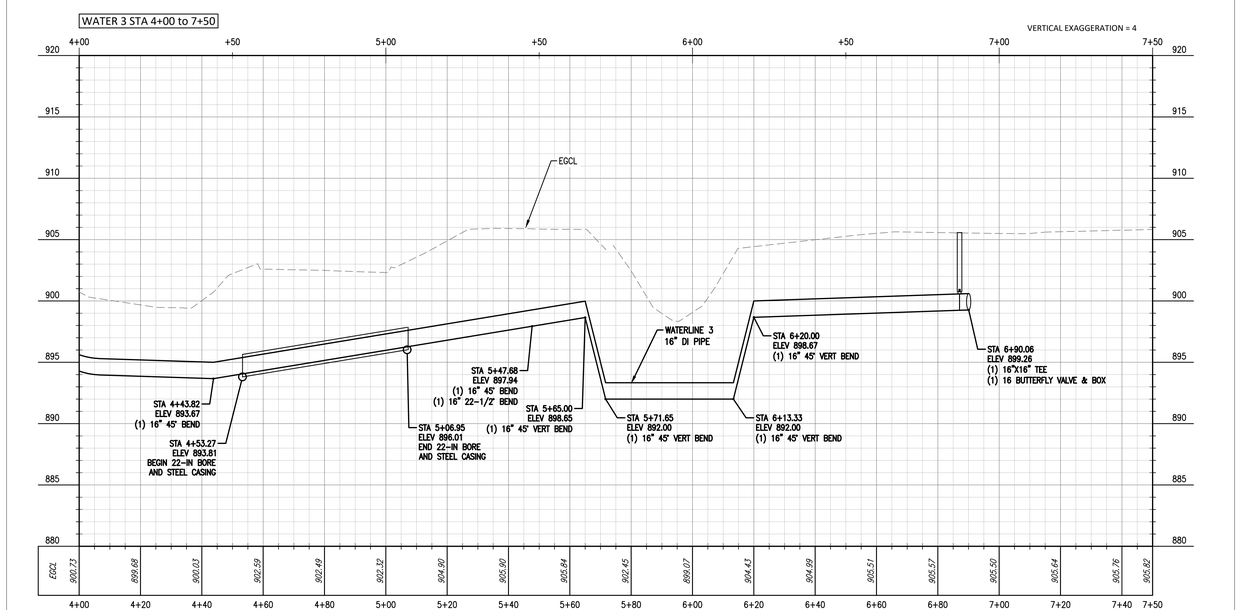

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21291
10/21/22

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Oklahoma CA #4935, Expires 6/30/2023

CLIENT:
SEAL OF THE CHEROKEE NATION
SEPT. 6, 1839

CHEROKEE NATION
W.W. HASTINGS REPLACEMENT HOSPITAL
TAHLEQUAH, OKLAHOMA

KEY PLAN:

PROJECT PHASE:
BID PACKAGE 02
(SITE DEMOLITION AND UTILITIES)

REVISIONS

0' 20' 40' 80'
SCALE: 1" = 20'

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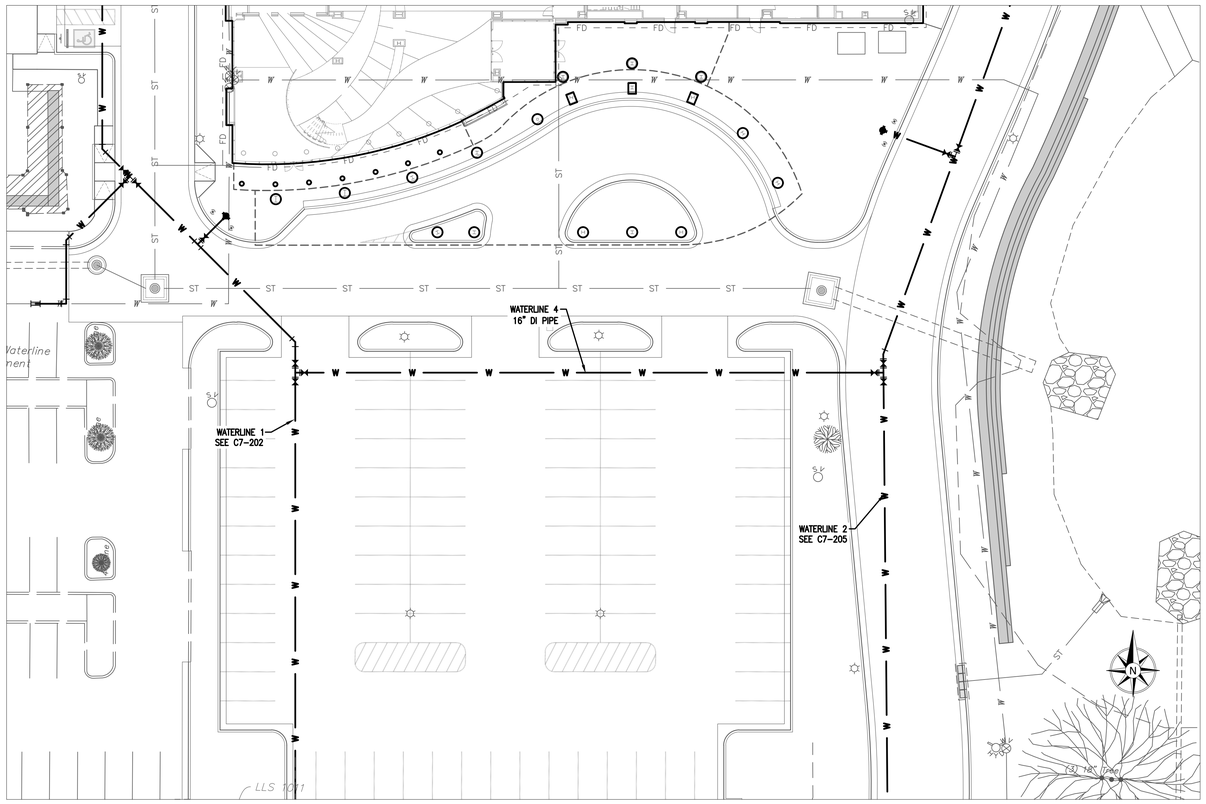
JOB NUMBER: 21-08.21
DATE: 10-21-2022
SHEET NUMBER: **C7-209**
SHEET TITLE: WATER 3 PLAN AND PROFILE

10/21/2022 A:\2021\5123\21\03_DSGN\01_DWG\050_CIVIL\C7-WATR-5123.DWG



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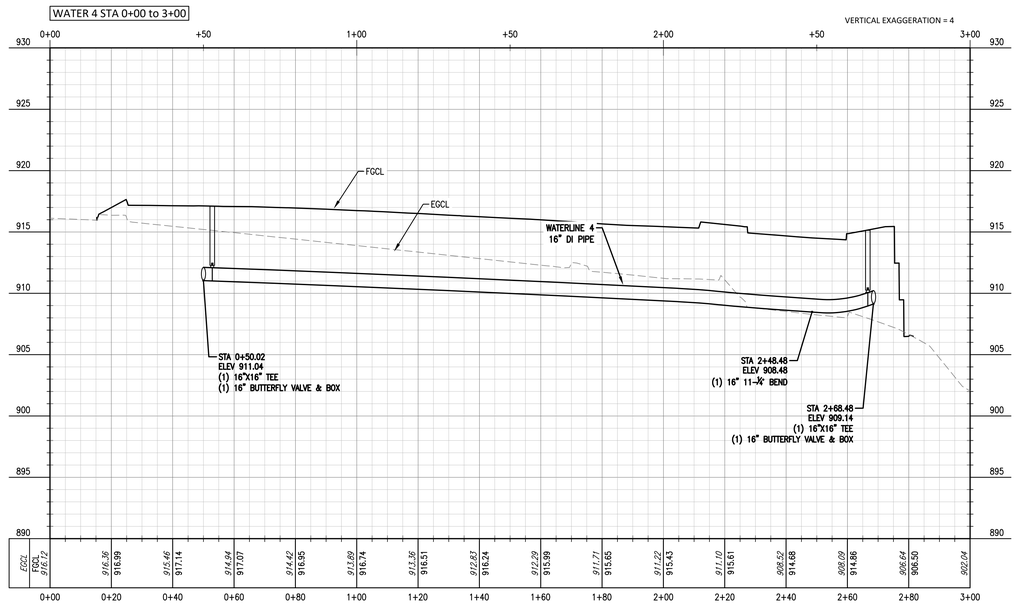

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21291
10/21/22

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CLIENT:
SEAL OF THE CHEROKEE NATION
SEPT. 6, 1839

CHEROKEE NATION
W.W. HASTINGS REPLACEMENT HOSPITAL
TAHLEQUAH, OKLAHOMA

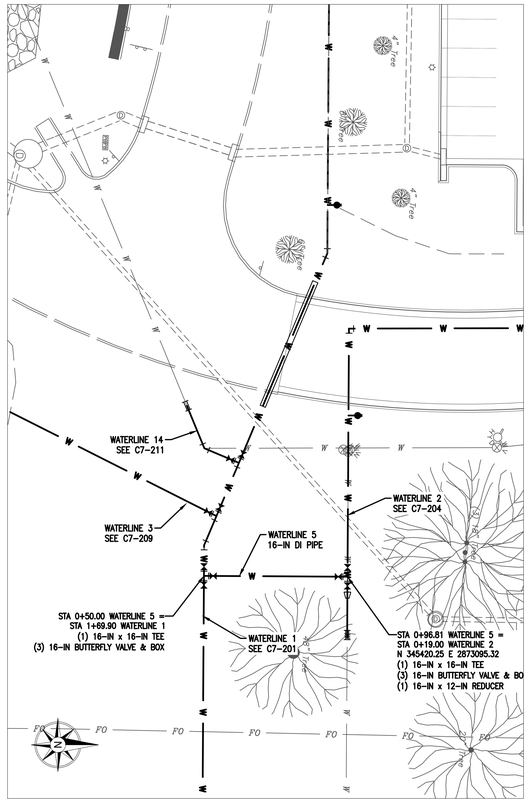
KEY PLAN:

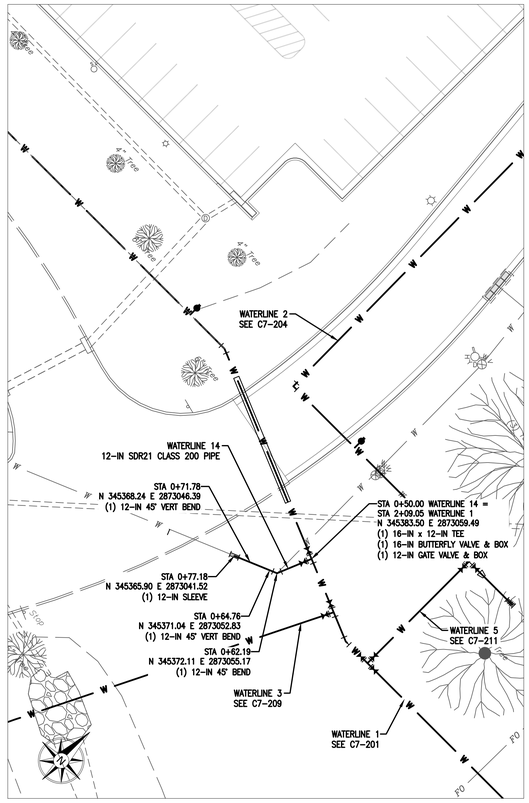
PROJECT PHASE:
BID PACKAGE 02
(SITE DEMOLITION AND UTILITIES)

REVISIONS

JOB NUMBER: 21-08.21
DATE: 10-21-2022
SHEET NUMBER: C7-210
SHEET TITLE: WATER 4 PLAN AND PROFILE

10/21/2022 A:\2021\5123\21\03_DSGN\01_DWG\050_CIVIL\C7-WATR-5123.DWG





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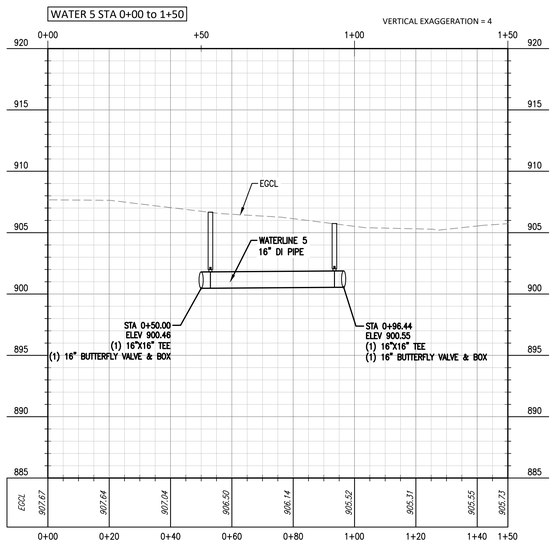

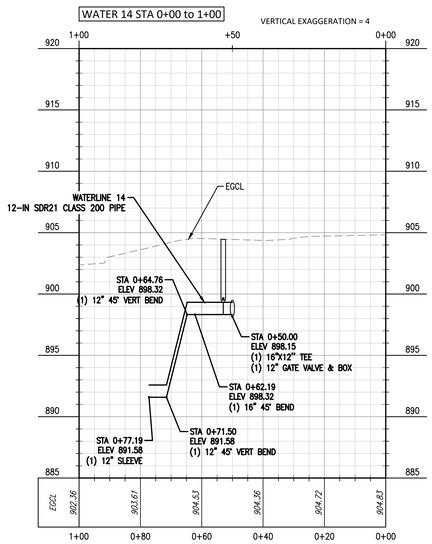

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SEPT. 6, 1839

CHEROKEE NATION
W.W. HASTINGS REPLACEMENT HOSPITAL
TAHLEQUAH, OKLAHOMA

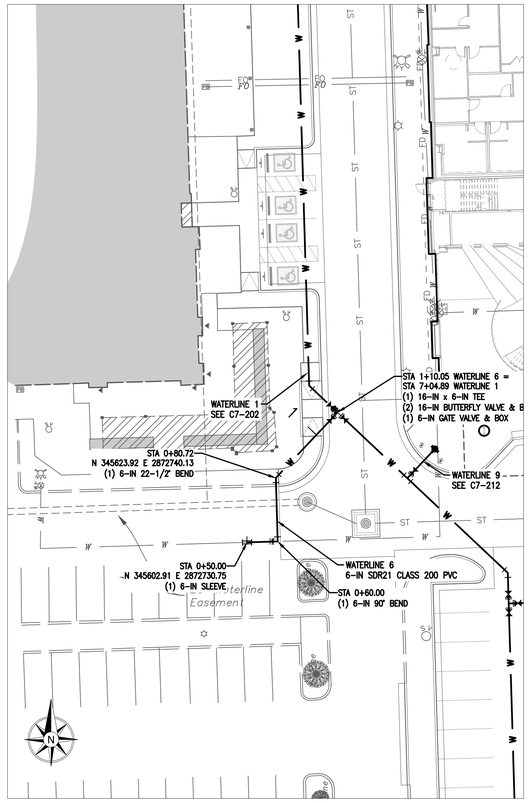
KEY PLAN:

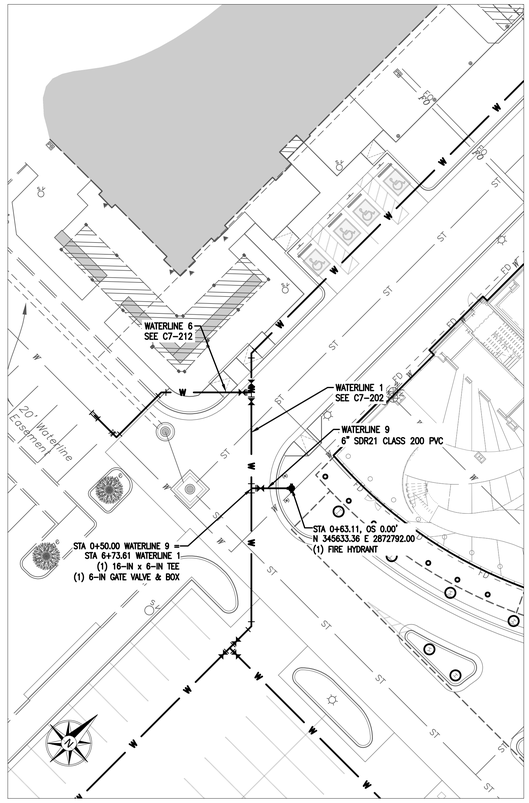
PROJECT PHASE:
BID PACKAGE 02
(SITE DEMOLITION AND UTILITIES)

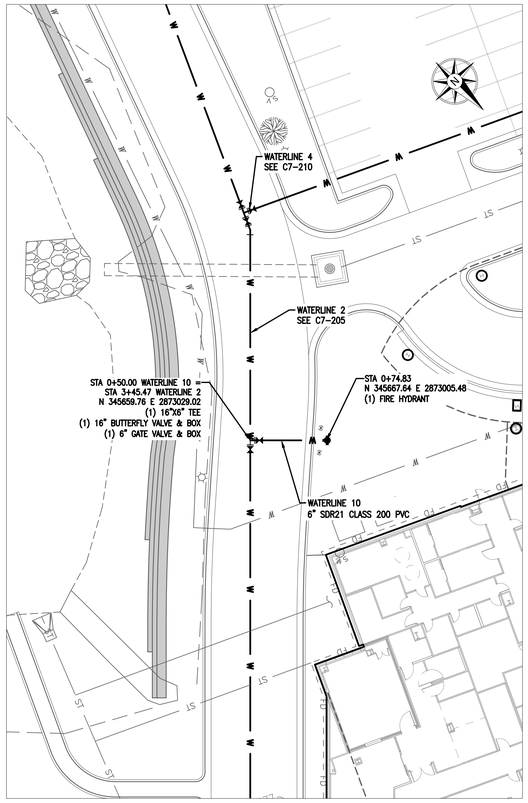
REVISIONS

JOB NUMBER: 21-08.21
DATE: 10-21-2022
SHEET NUMBER: C7-211
SHEET TITLE: WATER 5 AND 14 PLAN AND PROFILE

10/21/2022 A:\2021\5123.21\03_DSGN\01_DWG\050_CIVIL\C7-WATR-5123.DWG







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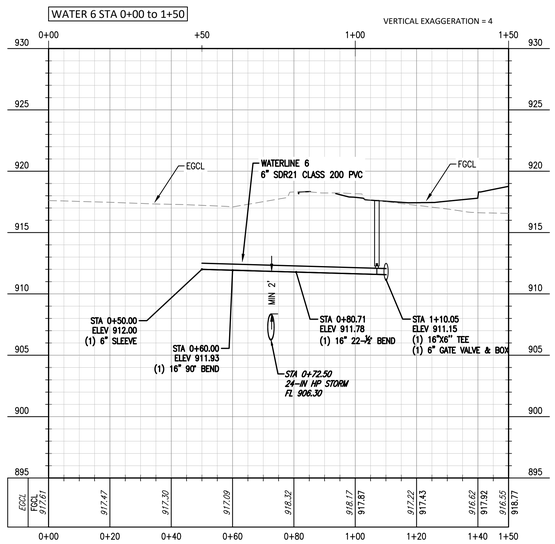

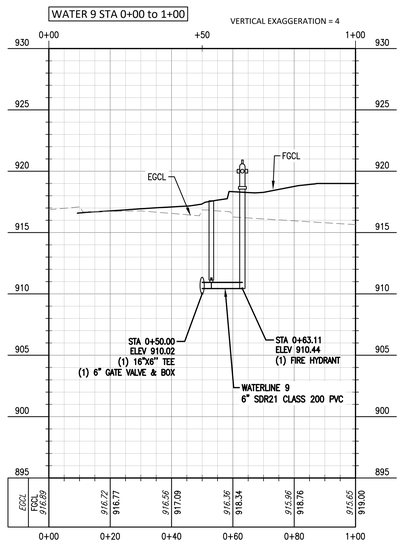

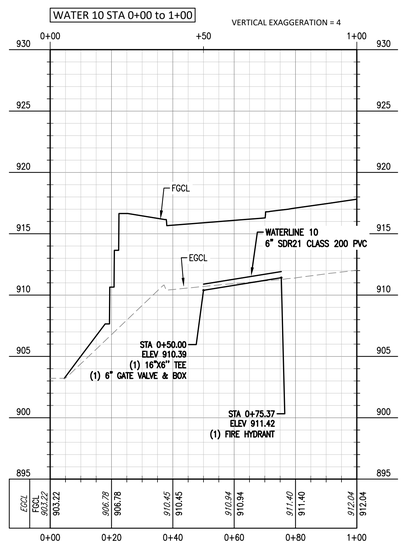

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SEPT. 6, 1839

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TAHLEQUAH, OKLAHOMA

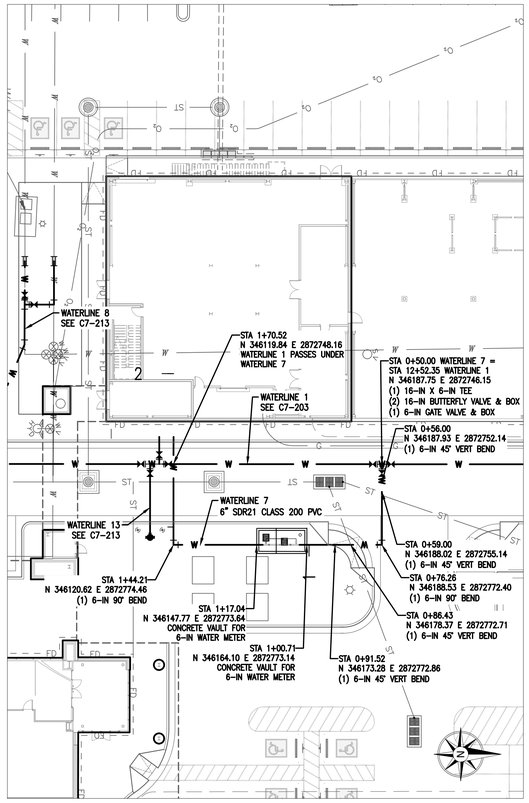
KEY PLAN:

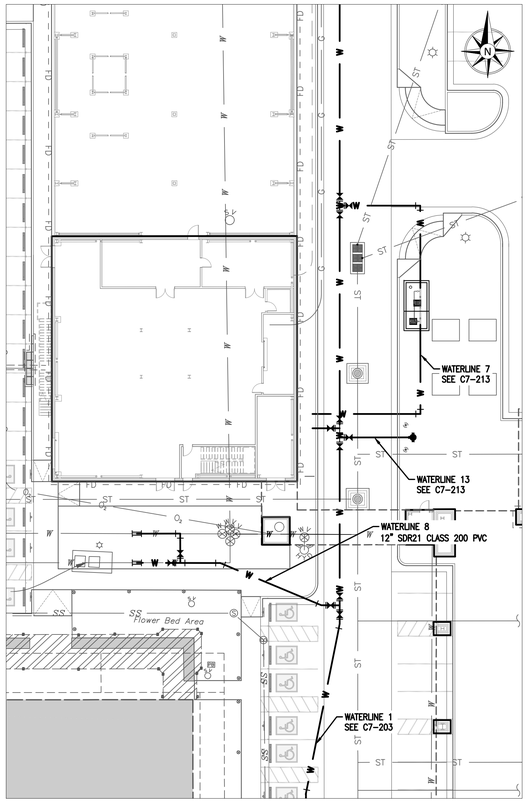
PROJECT PHASE:
BID PACKAGE 02
(SITE DEMOLITION AND UTILITIES)

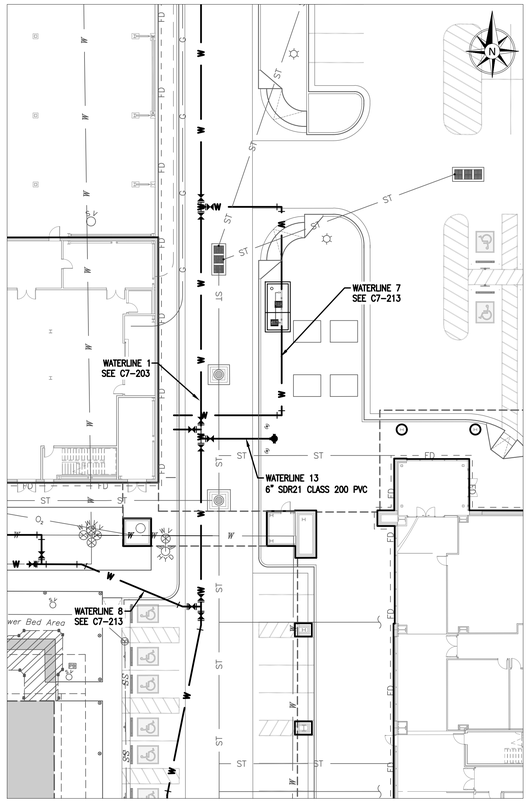
REVISIONS

JOB NUMBER: 21-08.21
DATE: 10-21-2022
SHEET NUMBER: C7-212
SHEET TITLE: WATER 6, 9, AND 10 PLAN AND PROFILE

10/21/2022 A:\2021\5123\103_DSGN\01_DWG\050_CIVIL\C7-WATR-5123.DWG







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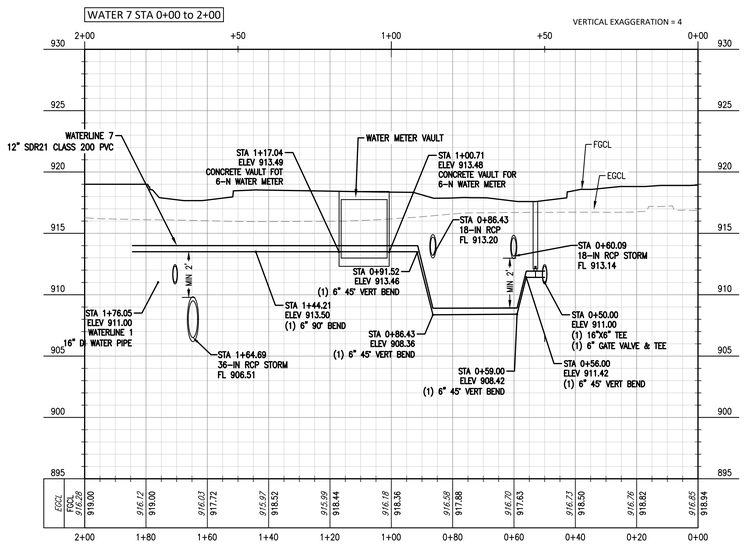

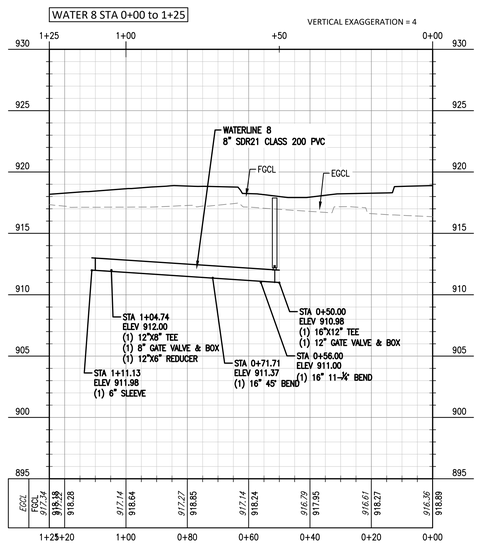

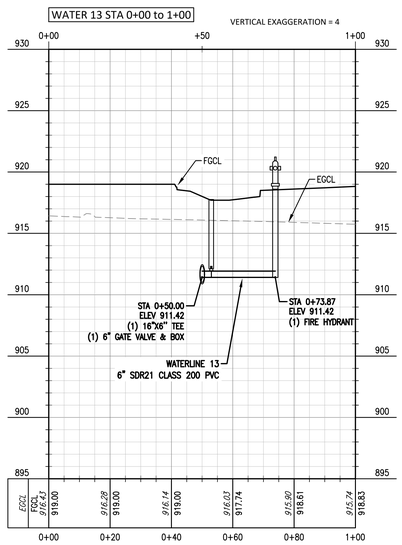

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UTILITY WARNING:
THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM RECORD DOCUMENTS OR FIELD LOCATIONS BY THE OPERATOR. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA EITHER IN SERVICE 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.

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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COREY W. LIPPS
21291
10/21/22

CONSULTANT LOGO:
Parkhill
14101 Wireless Way, Suite 350
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405-832-9900
www.parkhill.com
Oklahoma CA #4935, Expires 6/30/2023

CLIENT:
SEAL OF THE CHEROKEE NATION
SEPT. 6, 1839

CHEROKEE NATION
W.W. HASTINGS REPLACEMENT HOSPITAL
TAHLEQUAH, OKLAHOMA

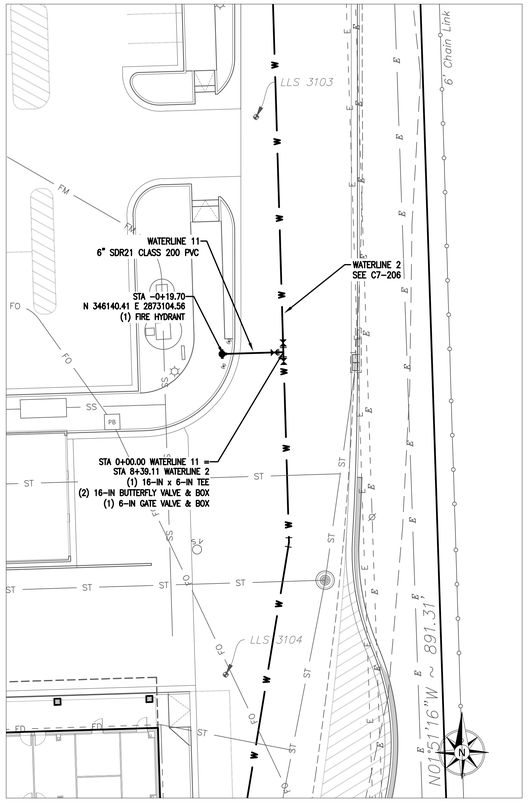
KEY PLAN:

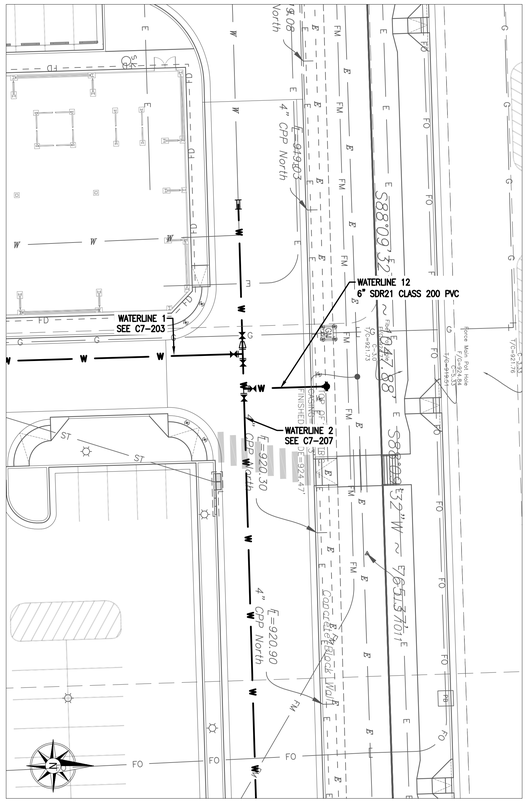
PROJECT PHASE:
BID PACKAGE 02
(SITE DEMOLITION AND UTILITIES)

REVISIONS

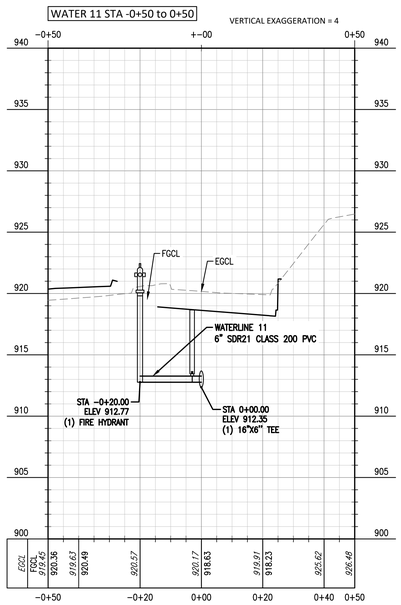
JOB NUMBER: 21-08.21
DATE: 10-21-2022
SHEET NUMBER: C7-213
SHEET TITLE: WATER 7, 8, AND 13 PLAN AND PROFILE

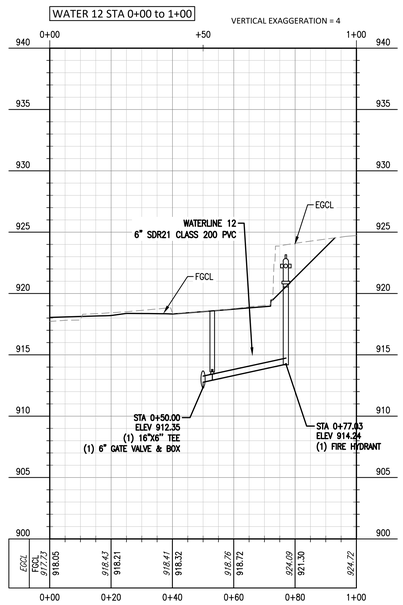
10/21/2022 A:\2021\5123.21\03_DSGN\01_DWG\050_CIVIL\C7-WATR-5123.DWG





NOTES:
1. BELL RESTRAINTS SHALL BE USED WITHIN 40' IN ALL DIRECTIONS OF MECHANICAL JOINTS.





0' 20' 40' 80'
SCALE: 1" = 20'

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(800) 522-6543

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CHEROKEE NATION
W.W. HASTINGS REPLACEMENT HOSPITAL
TAHLEQUAH, OKLAHOMA

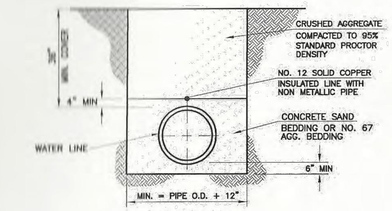
KEY PLAN:

PROJECT PHASE:
BID PACKAGE 02
(SITE DEMOLITION AND UTILITIES)

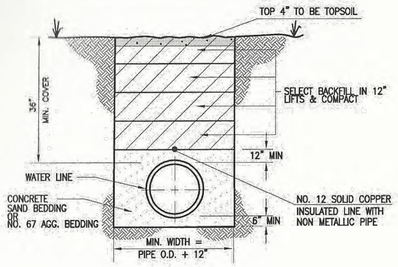
REVISIONS

JOB NUMBER: 21-08.21
DATE: 10-21-2022
SHEET NUMBER: **C7-214**
SHEET TITLE: WATER 11 AND 12 PLAN AND PROFILE

10/21/2022 A:\2021\5123\21\03_DSGN\01_DWG\050_CIVIL\C7-WATR-5123.DWG

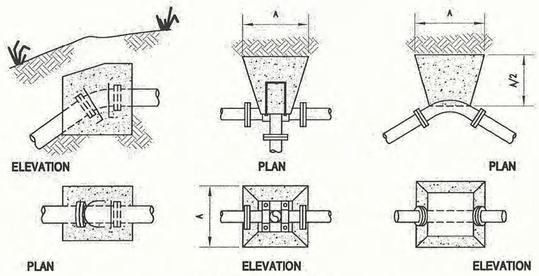


UNDER STREET, DRIVEWAY OR SIDEWALK



OPEN AREAS

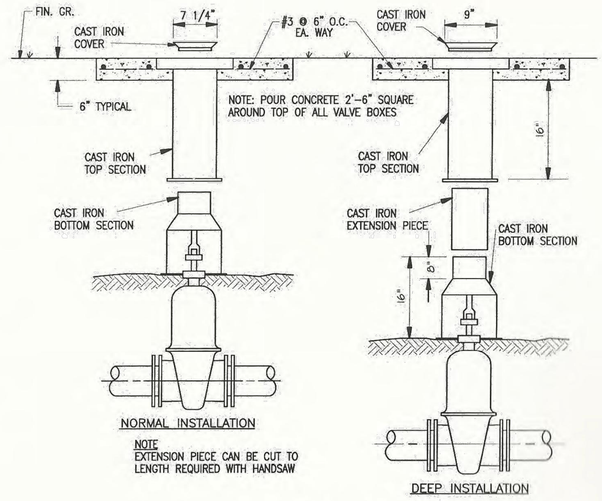
WATER LINE BEDDING DETAIL



VERTICAL BENDS

FITTINGS	"A" DIMENSION (FEET)							
	6" - 4"	10" - 8"	14" - 12"	18" - 16"	24" - 20"	36" - 30"	48" - 42"	60" - 54"
90° OR TEE	1.73	2.89	4.04	5.20	6.93	10.39	13.85	17.32
45°	1.28	2.12	2.97	3.82	5.10	7.64	10.19	12.74
22 1/2°	0.91	1.55	2.12	2.73	3.64	5.48	7.28	9.10
11 1/4°	0.65	1.10	1.50	1.93	2.58	3.87	5.16	6.45

THRUST BLOCKING DETAILS

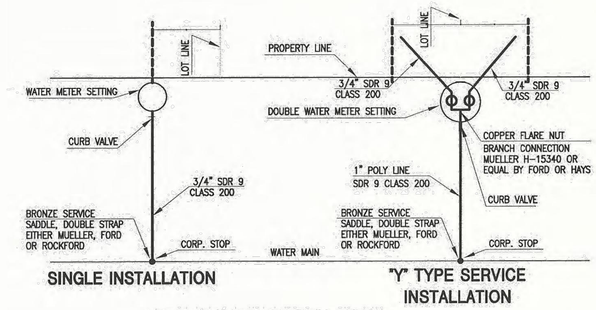


NORMAL INSTALLATION

NOTE
EXTENSION PIECE CAN BE CUT TO LENGTH REQUIRED WITH HANDSAW

DEEP INSTALLATION

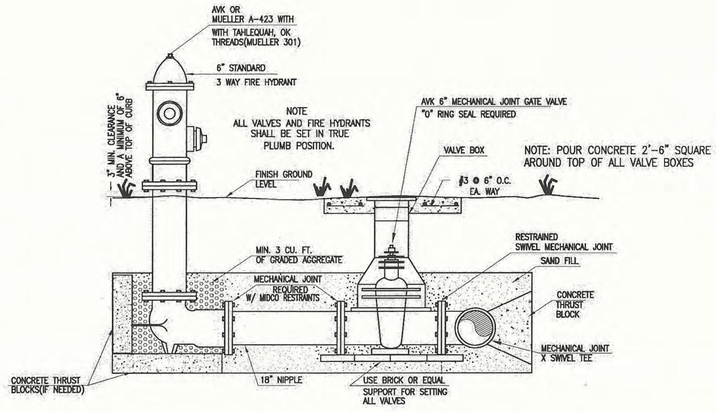
GATE VALVE INSTALLATION



SINGLE INSTALLATION

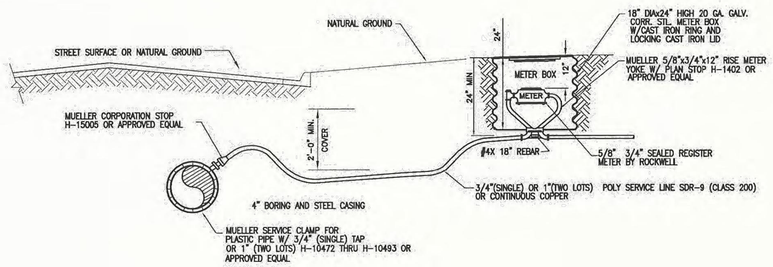
"Y" TYPE SERVICE INSTALLATION

SERVICE CONNECTION DETAIL



NOTE: BLUE REFLECTORS SHALL BE PLACED ON THE CURB DIRECTLY IN FRONT OF EACH HYDRANT

FIRE HYDRANT AND VALVE SETTING DETAIL



TYPICAL SERVICE CONNECTION

BEFORE YOU DIG . . .
CALL OKIE
1-800-522-6543

CONSTRUCTION PRACTICES SHALL BE IN STRICT ACCORDANCE WITH TITLE 252. OKLAHOMA ADMINISTRATIVE CODE CHAPTER 625 PUBLIC WATER SUPPLY CONSTRUCTION STANDARDS AND THE POLICIES OF THE TAHLEQUAH PUBLIC WORKS AUTHORITY.

GENERAL NOTES

1. PLANS DO NOT SHOW EXISTING UTILITES.
2. THE CONTRACTOR SHALL CONTACT "OKIE AT 1-800-522-6543" AND EACH UTILITY COMPANY PRIOR TO DIGGING TO DETERMINE THE LOCATION OF THEIR FACILITIES. ANY CHANGES IN ALIGN-
3. PVC PIPE SHALL BE SDR21 CLASS 200 FITTINGS SHALL BE DUCTILE IRON MIDCO RESTRAINTS SHALL BE USED ON ALL FITTINGS
4. ALL BEDDING, BACKFILLING AND SPECIAL SURFACE CROSSINGS SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE DETAILS SHOWN ON THE PLANS. STONES FOUND IN THE TRENCH SHALL BE REMOVED FOR A DEPTH OF AT LEAST SIX INCHES BELOW THE BOTTOM OF THE PIPE (OAC 252:625-17-4(2)).
5. DISINFECTION
   ALL NEW, CLEANED OR REPAIRED POTABLE WATER MAINS SHALL BE DISINFECTED IN ACCORDANCE WITH THE DEPARTMENT'S RULES FOR PUBLIC WATER SUPPLY OPERATION, OAC252:630. WATER WITH 50 TO 100 PARTS PER MILLION OF CHLORINE SHALL BE ALLOWED TO STAND 24 HOURS AND DEVELOP A RESIDUAL OF AT LEAST 10 PARTS PER MILLION OF CHLORINE. THE SPENT SOLUTION SHOULD BE DRAINED AND REPLACED WITH POTABLE WATER. AS AN ALTERNATE, EITHER OF THE METHODS LISTED IN THE AWWA C651, OR LATEST REVISION MAY BE USED(OAC 252:625-17-4(6)).
6. THE OKLAHOMA STATE HIGHWAY COMMISSION "STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION" EDITION OF 1988 ARE HEREBY ADOPTED AS PART OF THESE SPECIFICATIONS WHERE REFERENCE IS MADE, SAID SPECIFICATIONS WILL BE HEREINAFTER REFERRED TO AS THE "STANDARD SPECIFICATIONS". NO PORTION OF THE STANDARD SPECIFICATIONS REFERRING TO BASIS OF PAYMENT OR CONTRACT PROVISIONS ARE APPLICABLE TO THIS CONTRACT.

01 TPWA WATER DETAILS

Scale: NTS

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CLIENT:
SEAL OF THE CHEROKEE NATION SEPT. 6, 1839

CHEROKEE NATION
W.W. HASTINGS REPLACEMENT HOSPITAL
TAHLEQUAH, OKLAHOMA

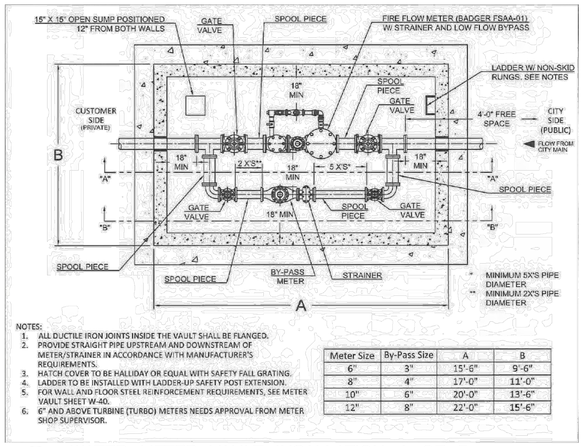
KEY PLAN:

PROJECT PHASE:
BID PACKAGE 02
(SITE DEMOLITION AND UTILITIES)

REVISIONS

JOB NUMBER: 21-08.21
DATE: 10-21-2022
SHEET NUMBER: C7-501
SHEET TITLE: TPWA WATER DETAILS

10/21/2022 A:\2021\5123.21\03_DSGN\01_DWG\050_CIVIL\C7-DETL-5123.DWG

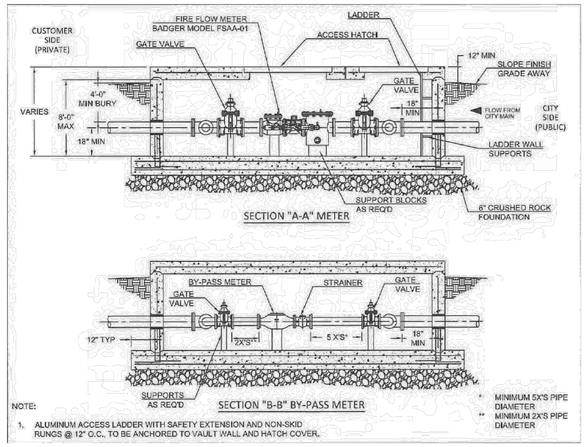


NOTES:
1. ALL DUCTILE IRON JOINTS INSIDE THE VAULT SHALL BE FLANGED.
2. PROVIDE STRAIGHT PIPE UPSTREAM AND DOWNSTREAM OF METER/STRAINER IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS.
3. HATCH COVER TO BE HALLIDAY OR EQUAL WITH SAFETY FAIL GRATING.
4. LADDER TO BE INSTALLED WITH LADDER-UP SAFETY POST EXTENSION.
5. FOR WALL AND FLOOR STEEL REINFORCEMENT REQUIREMENTS, SEE METER VAULT SHEET W-40.
6. 6" AND ABOVE TURBINE (TURBO) METERS NEEDS APPROVAL FROM METER SHOP SUPERVISOR.

Meter Size	By-Pass Size	A	B
6"	3"	15'-6"	9'-6"
8"	4"	17'-0"	11'-0"
10"	6"	20'-0"	13'-6"
12"	8"	22'-0"	15'-6"

01 WATER METER VAULT INSALLATION 1 OF 5

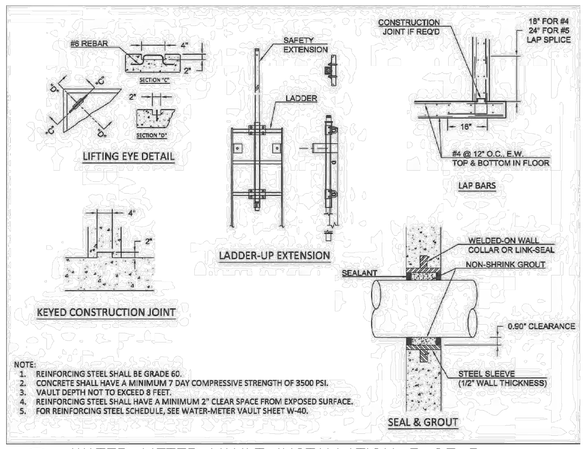
Scale: NTS



NOTE:
1. ALUMINUM ACCESS LADDER WITH SAFETY EXTENSION AND NON-SKID RUNGS @ 12" O.C., TO BE ANCHORED TO VAULT WALL AND HATCH COVER.

02 WATER METER VAULT INSTALLATION 2 OF 5

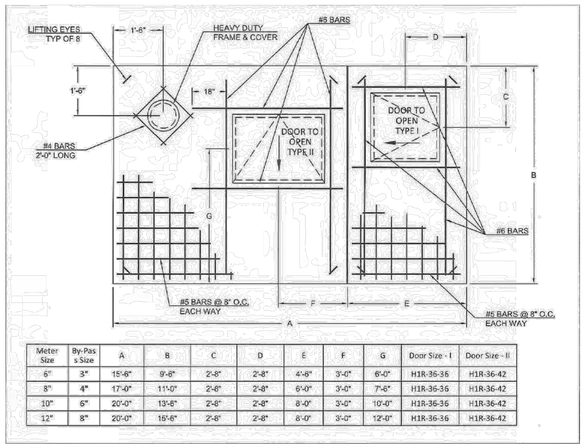
Scale: NTS



NOTE:
1. REINFORCING STEEL SHALL BE GRADE 60.
2. CONCRETE SHALL HAVE A MINIMUM 7 DAY COMPRESSIVE STRENGTH OF 3500 PSI.
3. VAULT DEPTH NOT TO EXCEED 8 FEET.
4. REINFORCING STEEL SHALL HAVE A MINIMUM 2" CLEAR SPACE FROM EXPOSED SURFACE.
5. FOR REINFORCING STEEL SCHEDULE, SEE WATER-METER VAULT SHEET W-40.

03 WATER METER VAULT INSTALLATION 3 OF 5

Scale: NTS



Meter Size	By-Pass Size	A	B	C	D	E	F	G	Door Size - I	Door Size - II
6"	3"	15'-6"	9'-6"	2'-8"	2'-8"	4'-8"	3'-0"	6'-0"	H1R-36-36	H1R-36-42
8"	4"	17'-0"	11'-0"	2'-8"	2'-8"	6'-0"	3'-0"	7'-6"	H1R-36-36	H1R-36-42
10"	6"	20'-0"	13'-6"	2'-8"	2'-8"	8'-0"	3'-0"	10'-0"	H1R-36-36	H1R-36-42
12"	8"	20'-0"	15'-6"	2'-8"	2'-8"	8'-0"	3'-0"	12'-0"	H1R-36-36	H1R-36-42

04 WATER METER VAULT INSTALLATION 4 OF 5

Scale: NTS

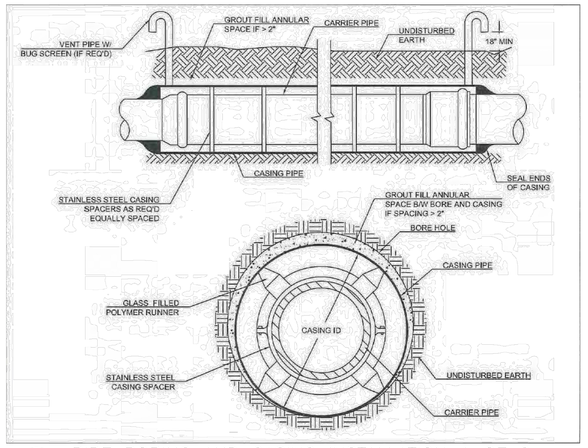
Reinforcing Schedule for Concrete Vaults

Meter Size	By-Pass Size	Design No.	Depth (feet)	A	B	Wall Thickness	Floor Thickness	Vertical Bars		Horizontal Bars		Top Thickness	Top Bars	
								Size	Spacing	Size	Spacing		Size	Spacing
6"	3"	9	5	15'-6"	9'-6"	8	10	4	12	4	12	8	5	8
		10	6	15'-6"	9'-6"	8	10	4	9	4	12	8	5	8
		11	7	15'-6"	9'-6"	8	10	5	12	4	12	8	5	8
		12	8	15'-6"	9'-6"	8	10	5	9	4	12	8	5	8
8"	4"	13	5	17'-0"	11'-0"	8	10	4	12	4	12	8	5	8
		14	6	17'-0"	11'-0"	8	10	4	9	4	12	8	5	8
		15	7	17'-0"	11'-0"	8	10	5	12	4	12	8	5	8
		16	8	17'-0"	11'-0"	8	10	5	9	4	12	8	5	8
10"	6"	17	5	20'-0"	13'-6"	8	10	4	12	4	12	8	5	8
		18	6	20'-0"	13'-6"	8	10	4	9	4	12	8	5	8
		19	7	20'-0"	13'-6"	10	11	5	12	4	12	8	5	8
		20	8	20'-0"	13'-6"	10	11	5	12	4	12	8	5	8
12"	8"	21	5	20'-0"	15'-6"	8	10	4	12	4	12	8	5	8
		22	6	20'-0"	15'-6"	8	10	4	9	4	12	8	5	8
		23	7	20'-0"	15'-6"	10	11	4	6	5	12	8	5	8
		24	8	20'-0"	15'-6"	10	11	5	6	5	12	8	5	8

NOTES:
1. ALL REINFORCING REBAR SHALL BE GRADE 60.
2. TOP BARS SHALL BE PLACED IN TWO MATS. BAR SIZE AND SPACING SHALL IN EACH DIRECTION BE INCLUDED IN EACH MAT OF STEEL
3. FLOOR REINFORCING USE #4 BARS @ 12" C/C EACH WAY FOR THE TOP MAT AND THE BOTTOM MAT OF REINFORCING.
4. WALL, FLOOR AND TOP THICKNESS ARE IN INCHES. STEEL REINFORCEMENT SPACING IS IN INCHES.

05 WATER METER VAULT INSTALLATION 5 OF 5

Scale: NTS



06 PIPE BORING AND CASING INSTALLATION 1 OF 2

Scale: NTS

NOTE:

SEALED CASING ENDS - NEOPRENE RUBBER END SEALS SECURED WITH 316 STAINLESS STEEL BANDING REQUIRED

VENT PIPES - VENT PIPES SHALL BE INSTALLED ON BOTH ENDS OF CASING FOR BORINGS THAT CROSS ODOT ROADS AND RAILROAD CROSSINGS. VENTS SHALL BE 2" DIA FOR CASING SIZES <= 30-IN. VENTS SHALL BE 4" DIA FOR CASING SIZES > 30-IN. VENTS SHALL HAVE A 90 DEG BEND TO POINT TOWARDS THE GROUND AND SHALL BE PAINTED INTERNATIONAL ORANGE. BUG SCREEN SHALL BE INCLUDED ON THE OPEN END OF VENT PIPE.

CASING PIPE SIZE - STEEL CASING PIPE SHALL HAVE THE FOLLOWING MINIMUM DIAMETERS: SEE TABLE 1

CASING PIPE THICKNESS - STEEL CASING PIPE SHALL HAVE THE FOLLOWING MINIMUM THICKNESS(ES), IN INCHES. FOR THE INDICATED MAXIMUM DEPTH OF COVER(S), IN FEET: SEE TABLE 2

CASING MATERIAL - STEEL CASING PIPE SHALL CONFORM WITH ASTM A-139, STANDARD SPECIFICATION FOR ELECTRIC-FUSION (ARC) - WELDED STEEL PIPE (NPS4 AND OVER). THE STEEL MATERIAL SHALL BE NEW, SMOOTH WALL, CARBON STEEL, GRADE B, WITH A MINIMUM TENSILE STRENGTH AND MINIMUM THIRTY-FIVE-THOUSAND (35,000 PSI) POUNDS PER SQUARE INCH YIELD STRENGTH

TABLE 1
RECOMMENDED CASING SIZING

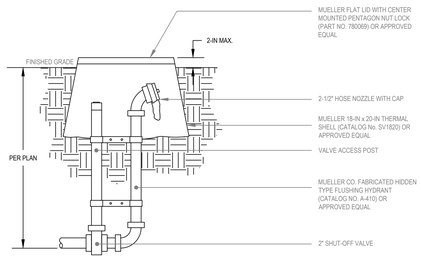
PIPE NOMINAL SIZE (INCHES)	SUGGESTED CASING PIPE INSIDE DIAMETER (INCHES)	PIPE NOMINAL SIZE (INCHES)	SUGGESTED CASING PIPE INSIDE DIAMETER (INCHES)
4	8 TO 10	20	28 TO 30
6	10 TO 12	24	31 TO 33
8	14 TO 16	30	36 TO 42
10	16 TO 18	36	42 TO 48
12	18 TO 20	42	54 TO 60
16	20 TO 22	48	60 TO 66
18	24 TO 26		

TABLE 2
CASING PIPE THICKNESS

Outside Diameter (inches)	Under Highway		Under Railroad		
	Wall Thickness (inches)	Maximum Cover (Feet)	BNSF (Uncoated) Wall Thickness (inches)	Union Pacific Wall Thickness (inches)	Maximum Cover (Feet)
≤ 12	0.1880	30	0.2500	0.2500	30
16	0.2500	30	0.3125	0.3125	30
18	0.2500	30	0.3125	0.3125	30
20	0.2500	30	0.3750	0.3750	30
24	0.2500	30	0.4375	0.4375	30
30	0.3220	30	0.5000	0.5000	30
36	0.3750	30	0.5625	0.5625	30
42	0.3750	25	0.5625	0.5625	30
48	0.4380	25	0.6250	0.6250	25

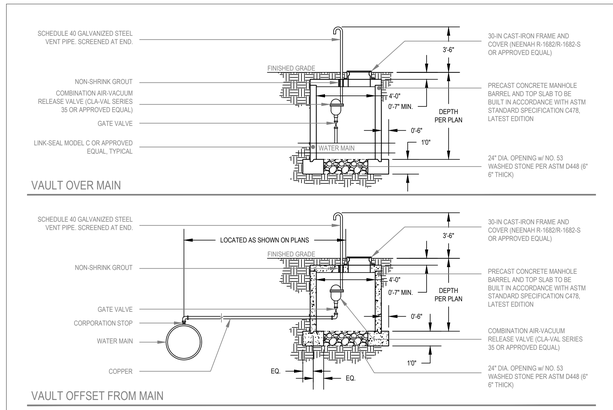
07 PIPE BORING AND CASING INSTALLATION 2 OF 2

Scale: NTS



08 2-IN FLUSHING HYDRANT

Scale: NTS



09 AIR RELIEF VALVE AND VAULT

Scale: NTS

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TAHLEQUAH, OKLAHOMA

KEY PLAN:

PROJECT PHASE:
BID PACKAGE 02
(SITE DEMOLITION AND UTILITIES)

REVISIONS

JOB NUMBER: 21-08.21
DATE: 10/20/2022
SHEET NUMBER: **C7-502**
SHEET TITLE: WATER DETAILS

10/21/2022 A:\2021\5123\103_DSGN\01_DWG\050_CIVIL\C7-DETL-5123.DWG