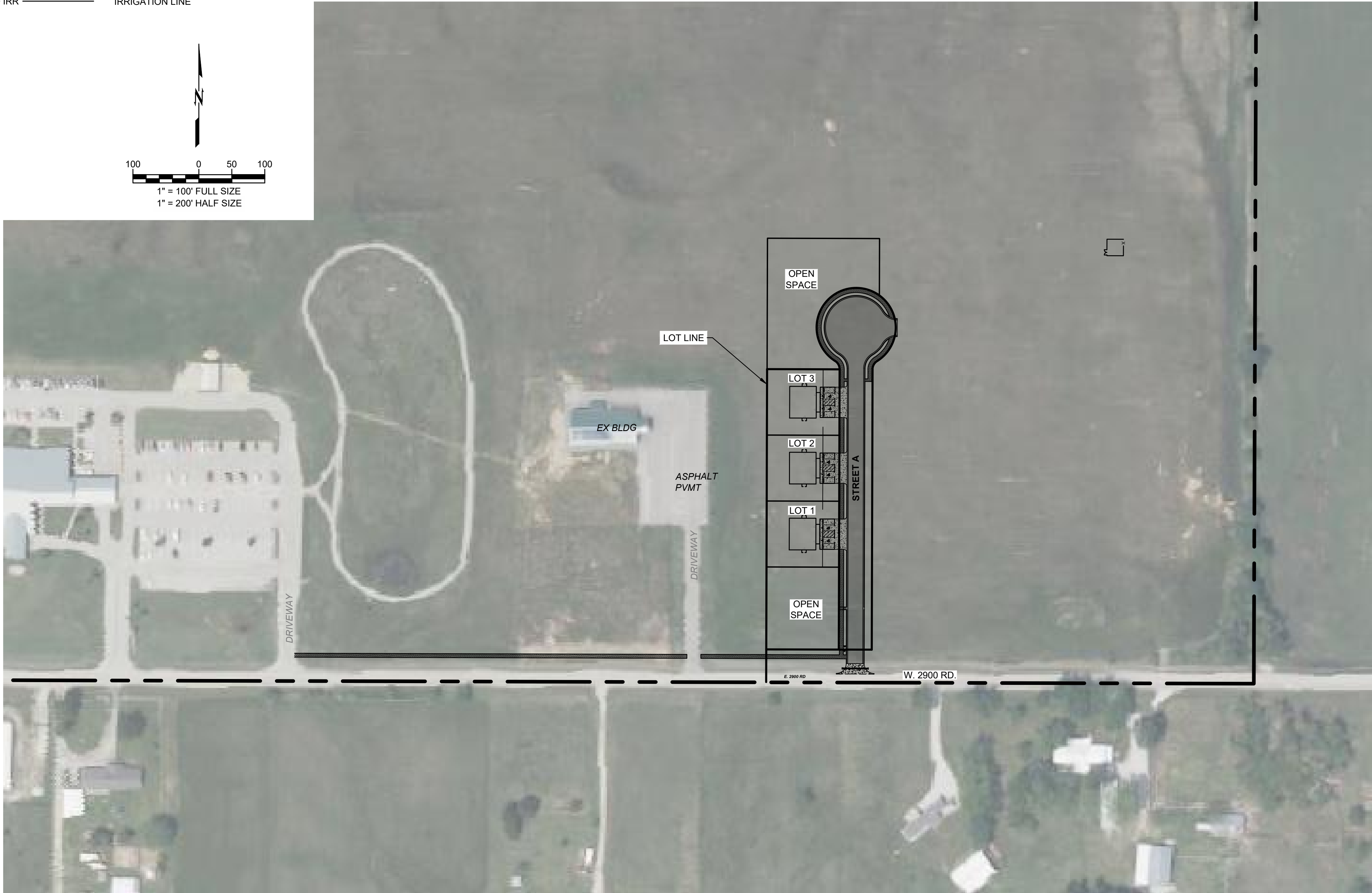
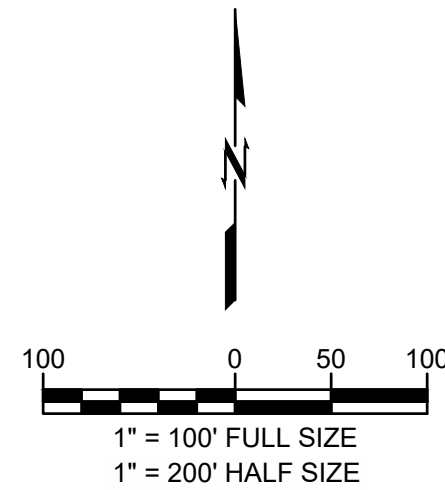


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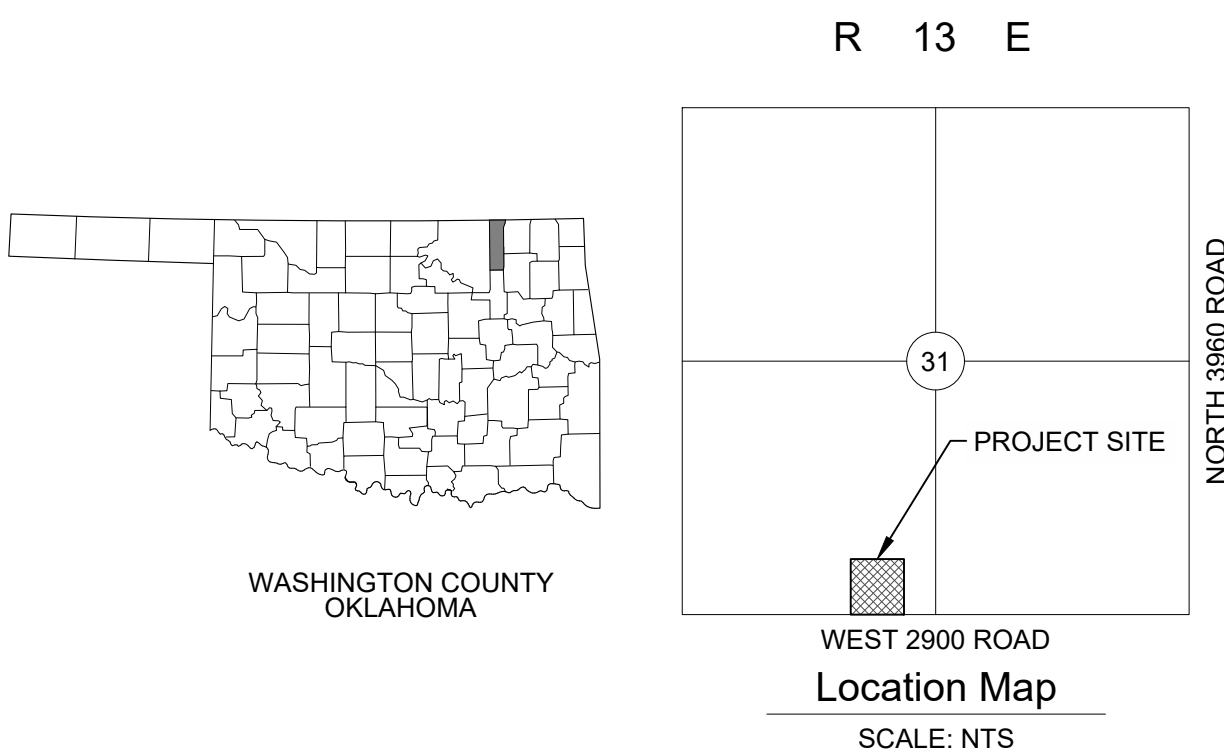
LEGEND

ABBREVIATIONS		LINETYPES	
(M)	MEASURED DATA	_____	CENTERLINE
(R)	RECORD DATA	_____	SILT FENCE
BC	BACK OF CURB	_____	LIMITS OF CONSTRUCTION
BL	BUILDING LINE	_____	PROPOSED MAJOR CONTOUR
CL	CENTERLINE	_____	PROPOSED MINOR CONTOUR
EG	EXISTING GRADE	_____	EXISTING MAJOR CONTOUR
FF	FINISHED FLOOR	_____	EXISTING MINOR CONTOUR
FG	FINISHED GRADE	_____	EASEMENT
FL	FLOWLINE	_____	FENCE
GL	GUTTER LINE	_____	PROPERTY LINE
HP	HIGH POINT	_____	LOT LINE
INV	INVERT	_____	BUILDING SETBACK
LF	LINEAR FEET	_____	FIBER OPTIC
LP	LOW POINT	_____	OVERHEAD COMMUNICATION
ME	MATCH EXISTING	_____	UNDERGROUND COMMUNICATION
RW	RIGHT-OF-WAY	_____	OVERHEAD ELECTRIC
SF	SQUARE FEET	_____	UNDERGROUND ELECTRIC
SY	SQUARE YARDS	_____	NATURAL GAS
TBK	TOP OF BANK	_____	SEWER FORCE MAIN
TC	TOP OF CURB	_____	SANITARY SEWER MAIN
TG	TOP OF GRATE	_____	SANITARY SEWER SERVICE
TOE	TOE OF BANK	_____	DRAINAGE AREA, MAJOR
TP	TOP OF PAVEMENT	_____	DRAINAGE AREA, MINOR
TR	TOP OF RIM	_____	DRAINAGE FLOW PATH
TS	TOP OF SIDEWALK	_____	STORM DRAINAGE PIPE
TW	TOP OF WALL	_____	FIRE LINE
		_____	WATER LINE
		_____	WATER SERVICE LINE
		_____	IRRIGATION LINE
SYMBOLS			
⊕	UTILITY POLE		
⊕	LIGHT POLE		
⊕	GUY ANCHOR		
⊕	ELECTRIC BOX		
⊕	ELECTRIC METER		
⊕	ELECTRIC TRANSFORMER		
⊕	A/C UNIT		
⊕	ELECTRIC MANHOLE		
⊕	GAS METER		
⊕	GAS VALVE		
⊕	OIL/GAS WELLHEAD		
⊕	VENT PIPE		
⊕	PIPELINE MARKER		
⊕	COMMUNICATION PEDESTAL		
⊕	COMMUNICATION MANHOLE		
⊕	SEWER CLEAN-OUT		
⊕	SANITARY SEWER MANHOLE		
⊕	DOWNSPOUT		
⊕	ROOF DRAIN		
⊕	STORM DRAIN MANHOLE		
⊕	FIRE DEPARTMENT CONNECTION		
⊕	FIRE HYDRANT		
⊕	IRRIGATION CONTROL VALVE		
⊕	SHUT-OFF VALVE		
⊕	SPRINKLER HEAD		
⊕	WATER METER		
⊕	WATER VALVE		
⊕	YARD HYDRANT		
⊕	PIPE BOLLARD		
⊕	BENCHMARK		
⊕	ACCESSIBLE PARKING		
⊕	MAILBOX		
⊕	MONITORING WELL		
⊕	POTHOLE		
⊕	SIGN		



CONSTRUCTION DOCUMENTS FOR OCHELATA HOUSING

OCHELATA, OKLAHOMA
S 1/2 OF THE SW 1/4 OF
SEC. 31, T 25 N, R 13E



CONTACTS:

CITY
THE TOWN OF OCHELATA
OCHELATA MUNICIPAL BUILDING
PO BOX 268
OCHELATA OK 74051

WATER
THE TOWN OF OCHELATA
OCHELATA MUNICIPAL BUILDING
PO BOX 268
OCHELATA OK 74051

SANITARY
THE TOWN OF OCHELATA
OCHELATA MUNICIPAL BUILDING
PO BOX 268
OCHELATA OK 74051

ENGINEER
WALLACE DESIGN COLLECTIVE, PC
LANCE K. WOOLSEY, P.E.
123 NORTH MARTIN LUTHER KING JR
BOULEVARD
TULSA, OKLAHOMA 74103
(918) 584-5858
LANCE.WOOLSEY@WALLACE.DESIGN

ODOT STANDARDS	
TCS5-1	
TSD-3	
WCR-4	

SHEET LIST TABLE	
SHEET NUMBER	SHEET TITLE
C100	COVER
C101	GENERAL NOTES
C200	TOPOGRAPHIC SURVEY
C201	TOPOGRAPHIC SURVEY
C300	DEMOLITION EROSION CONTROL PLAN
C400	SITE PLAN
C500	GRADING PLAN
C500	STORM MANAGEMENT PLAN
C600	UTILITY MAINS PLAN
C601	OVERALL UTILITY MAINS PLAN
C602	OVERALL SANITARY SEWER PLAN
C603	SANITARY SEWER PLAN & PROFILE
C604	SANITARY SEWER PLAN & PROFILE
C605	SANITARY SEWER PLAN & PROFILE
C606	FORCE MAIN PLAN & PROFILE
C607	FORCE MAIN PLAN & PROFILE
C608	FORCE MAIN PLAN & PROFILE
C700	GEOMETRIC PLAN
C701	PAVING PLAN & PROFILE
C702	INTERSECTION DETAILS
C800	PAVING DETAILS
C801	PAVING DETAILS
C802	SANITARY SEWER DETAILS
C803	WATER LINE DETAILS
C804	LIFTSTATION DETAILS

BENCHMARKS
BENCHMARKS PER TOPOGRAPHIC SURVEY COMPLETED BY BENNETT SURVEYING, INC., DATED 07.10.2023.

BENCHMARK
1/2" IRON PIN
ELEV=732.40
N=587869.5210
E=2566591.5420

CAUTION
NOTICE TO CONTRACTOR

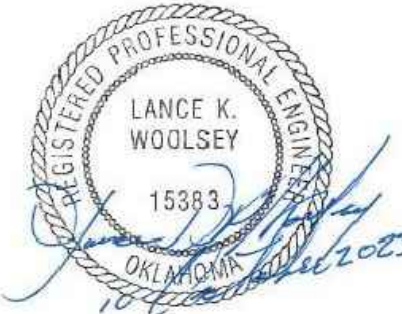
THE CONTRACTOR IS SPECIFICALLY CAUTIONED THE LOCATION AND ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS ARE BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE LOCAL UTILITY LOCATION CENTER AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATIONS OF THE UTILITIES.



Know what's below.
Call before you dig.

wallace
design
collective

wallace design collective, pc
structural-civil-landscape survey
123 north martin luther king jr. blvd.
tulsa, oklahoma 74103
918.584.5858
oklahoma ca1460
exp: 6-30-25



CHEROKEE NATION
OCHELATA OK
OCHELATA, OKLAHOMA

REV	DESCRIPTION	DATE	DATE
1	100% CD	09/15/23	10/10/23
PROJECT NO.		2340348	
SHEET NAME		COVER	
SHEET NO.		C100	

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ORIG SIZE: 24"x36"

GENERAL NOTES:

1. CONDUCT SITE CLEARING OPERATIONS TO ENSURE MINIMUM INTERFERENCE WITH ROADS, STREETS, WALKS, AND OTHER ADJACENT OCCUPIED OR USED FACILITIES. DO NOT CLOSE OR OBSTRUCT STREETS, WALKS, OR OTHER OCCUPIED OR USED FACILITIES WITHOUT PERMISSION FROM AUTHORITIES HAVING JURISDICTION. STREETS AND ROADWAYS SHALL BE THOROUGHLY CLEANED AND/OR SWEEP ON A DAILY BASIS OR MORE FREQUENTLY AS REQUIRED BY THE GOVERNING AUTHORITY. RESTORE DAMAGED IMPROVEMENTS TO ORIGINAL CONDITION AS ACCEPTABLE TO PARTIES HAVING JURISDICTION.
2. THE CONTRACTOR SHALL PROVIDE DUST CONTROL MEASURES IN ACCORDANCE WITH LOCAL AUTHORITIES.
3. ALL STREET SURFACES, DRIVEWAYS, CULVERTS, ROADSIDE DRAINAGE DITCHES, AND OTHER STRUCTURES THAT ARE DISTURBED OR DAMAGED IN ANY MANNER AS A RESULT OF CONSTRUCTION SHALL BE REPLACED IN ACCORDANCE WITH THE SPECIFICATIONS.
4. UNLESS SPECIFIED OTHERWISE, ALL MATERIAL AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE STANDARDS, SPECIFICATIONS, AND REGULATIONS OF THE CITY OF OCHELATA, OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY, AND STATE DEPARTMENT OF TRANSPORTATION, AND/OR THE APPROPRIATE LOCAL AUTHORITIES.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMITS, PERMIT FEES, LICENSES, LICENSE FEES, TAP FEES, ETC.
6. ALL ELEVATIONS IN PAVED AREAS ARE TOP OF FINISHED PAVEMENT UNLESS OTHERWISE NOTED.
7. RELOCATION OF ANY UTILITIES SHALL BE PERFORMED IN ACCORDANCE WITH THE PROVISIONS OF THE APPROPRIATE UTILITY COMPANY AND/OR REGULATORY AGENCY. CONTRACTOR SHALL OBTAIN WRITTEN APPROVAL FROM ENGINEER BEFORE ANY UTILITY RELOCATION.
8. NO DIMENSION MAY BE SCALED. REFER UNCLEAR ITEMS TO THE ENGINEER FOR INTERPRETATION.

EXCAVATION NOTIFICATION

1. ALL CONTRACTORS SHALL NOTIFY UTILITY COMPANIES AND GOVERNMENT AGENCIES IN WRITING OF THE INTENT TO EXCAVATE NO LESS THAN 72 HOURS PRIOR TO EACH EXCAVATION (EXCLUSIVE OF SATURDAYS, SUNDAYS, AND HOLIDAYS).
2. CONTRACTORS TO CALL 811 (OR VISIT CALL811.COM) TO REQUEST UTILITY LOCATES. ONCE COMPLETION OF MARKINGS HAS BEEN CONFIRMED BY THE CONTRACTOR, NO AUTOMATED OR MECHANICAL EQUIPMENT SHOULD BE USED WITHIN TWO FEET ON EITHER SIDE OF THE MARKINGS (OR ANOTHER MORE STRINGENT TOLERANCE AS DIRECTED), AND EXISTING FACILITIES MUST BE EXPOSED BY HAND.
3. EXISTING UTILITY LOCATIONS SHOWN SHALL BE FIELD VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION. LOCATIONS OF UNDERGROUND UTILITIES ON THESE DRAWINGS ARE APPROXIMATE ONLY AND BASED ON ACTUAL FIELD LOCATIONS OF VISIBLE STRUCTURES AND PLAN COMPUTATIONS.

SITE ACCESSIBILITY

1. ALL FEATURES OF THIS PROJECT INCLUDING, BUT NOT LIMITED TO, SIDEWALKS, CURB RAMPS, ACCESSIBLE PARKING, AND ACCESSIBLE ROUTES SHALL COMPLY WITH THE APPLICABLE ACCESSIBILITY CODES (AMERICAN DISABILITIES ACT (ADA) ACCESSIBILITY GUIDELINES; THE PROPOSED PUBLIC RIGHTS-OF-WAY ACCESSIBILITY GUIDELINES (PROWAG) PUBLISHED IN THE FEDERAL REGISTER JULY 2011; INTERNATIONAL BUILDING CODE (IBC); ICC A117.1; ETC.)
2. WHERE SPATIAL LIMITATIONS OR EXISTING FEATURES WITHIN THE LIMITS OF THE PROJECT PREVENT FULL COMPLIANCE WITH THESE GUIDELINES, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER UPON DISCOVERY OF SUCH FEATURES. THE CONTRACTOR SHALL NOT PROCEED WITH ANY ASPECT OF THE WORK WHICH IS NOT IN FULL COMPLIANCE WITH THESE GUIDELINES WITHOUT PRIOR, WRITTEN PERMISSION FROM THE ENGINEER. ANY WORK WHICH IS NOT PERFORMED WITHIN THESE GUIDELINES, FOR WHICH THE CONTRACTOR DOES NOT HAVE WRITTEN APPROVAL, SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.
3. GENERAL SLOPE GUIDANCE:
 - 3.1. CROSS SLOPES SHALL NOT EXCEED 1:50 (2.0%). PREFERRED SLOPE IS 1.5%.
 - 3.2. RUNNING SLOPES SHALL NOT EXCEED 5% EXCEPT AT RAMPS. PREFERRED MAXIMUM SLOPE IS 4.5%.
 - 3.3. RAMP RUNNING SLOPES SHALL NOT EXCEED 1:12 (8.3%). PREFERRED MAXIMUM SLOPE IS 7.8%.
 - 3.4. SLOPES AT LANDINGS, ACCESSIBLE PARKING STALLS, AND ACCESSIBLE AISLES SHALL NOT EXCEED 2% IN ANY DIRECTION. PREFERRED MAXIMUM SLOPE IS 1.5%.
 - 3.5. EXCEPTIONS WITHIN THE PUBLIC RIGHT-OF-WAY: WHERE THE ESTABLISHED ADJACENT STREET GRADE EXCEEDS 5%, RUNNING SLOPES PARALLEL TO THE STREET SLOPES SHALL NOT EXCEED THE GENERAL GRADE ESTABLISHED FOR THE ADJACENT STREET. CURB RAMP RUNNING SLOPE CAN EXCEED 8.3% TO LIMIT THE RESULTING THE RAMP LENGTH TO 15 FEET.

GEOTECHNICAL

1. ALL WORK SHALL BE IN ACCORDANCE WITH THE GEOTECHNICAL REPORT PREPARED BY BUILDING & EARTH DATED 07/20/2023.

SURVEY

1. EXISTING BOUNDARY AND TOPOGRAPHIC INFORMATION ARE SHOWN PER THE FIELD SURVEY PERFORMED BY BENNETT SURVEYING, INC. DATED 07/10/2023

AS-BUILTS:

THE CONTRACTOR SHALL KEEP ON SITE A CURRENT SET OF THE APPROVED CONSTRUCTION WORKING DRAWINGS AT ALL TIMES. THE CONTRACTOR SHALL MARK (IN RED INK) ALL CHANGES MADE TO THE APPROVED PLANS. THESE CHANGES MAY BE INITIATED FROM FIELD CONDITIONS, CHANGES MADE BY THE ENGINEER OF RECORD, OR CHANGES REQUESTED BY REPRESENTATIVES OF THE JURISDICTIONS HAVING AUTHORITY. ALL CHANGES SHALL BE REVIEWED AND AGREED TO BY THE ENGINEER OF RECORD PER AN RFI SUBMITTAL PROCESS. THE CONTRACTOR SHALL SUBMIT THE WORKING DRAWINGS TO THE ENGINEER OF RECORD AFTER FINAL INSPECTION OF THE PROJECT TO SERVE AS A BASIS FOR DEVELOPMENT OF FINAL AS-BUILT RECORD DOCUMENTS.

GENERAL CONSTRUCTION NOTES

1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN STRICT ACCORDANCE WITH 2019 OKLAHOMA DEPARTMENT OF TRANSPORTATION STANDARDS AND SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, AND CITY OF OCHELATA STANDARDS.
2. ALL EXCAVATED MATERIAL NOT REQUIRED IN OTHER AREAS OF THE PROJECT, INCLUDING CONCRETE AND CURB REMOVAL, SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF BY THE CONTRACTOR IN A MANNER ACCEPTABLE TO THE ENGINEER WITHOUT COST TO THE OWNER. THE CONTRACTOR SHALL BE REQUIRED TO OBTAIN AN EARTH CHANGE PERMIT IF MATERIAL IS TO BE DISPOSED OF OFFSITE.
3. THE CONTRACTOR SHALL WORK IN COOPERATION WITH THE LOCAL AUTHORITY TO ESTABLISH, INSTALL, MAINTAIN AND OPERATE COMPLETE, ADEQUATE AND SAFE TRAFFIC CONTROLS DURING THE ENTIRE CONSTRUCTION PERIOD. IF IT IS NECESSARY TO CLOSE ANY PORTION OF ANY STREET TO ACCOMMODATE ANY PHASE OF CONSTRUCTION, THE CONTRACTOR SHALL PREPARE AND SUBMIT A TRAFFIC CONTROL PLAN TO CHEROKEE NATION ROADS AND LOCAL AUTHORITY PUBLIC WORKS AT LEAST 72 HOURS PRIOR TO COMMENCING THE PHASE OF WORK. ALL TRAFFIC CONTROL DEVICES SHALL BE APPROVED BY THE CHEROKEE NATION ROADS AND LOCAL AUTHORITY PUBLIC WORKS. THE CONTRACTOR SHALL PLACE TRAFFIC CONTROL FLAGMEN, BARRICADES AND ALL OTHER DEVICES WITHIN THE VICINITY OF THE CONSTRUCTION AS REQUIRED. ALL CONSTRUCTION SIGNING WILL BE DONE ACCORDING TO STANDARDS SET FORTH IN THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", LATEST EDITION.
4. WHERE MATERIALS ARE TRANSPORTED IN THE EXECUTION OF WORK, VEHICLES SHALL NOT BE LOADED BEYOND CAPACITY RECOMMENDED BY THE MANUFACTURER OF THE VEHICLE OR PRESCRIBED BY FEDERAL, TRIBAL, STATE OR LOCAL LAW OR REGULATION.
5. LOCAL AND THRU TRAFFIC SHALL BE MAINTAINED THROUGH PROJECT AT ALL TIMES. ALL PUBLIC AND PRIVATE STREETS AND DRIVES SHALL BE ACCESSIBLE FOR TRAFFIC AT ALL TIMES DURING CONSTRUCTION OF THIS PROJECT.
6. PHYSICAL TESTING FOR QUALITY ASSURANCE WILL BE FURNISHED BY THE CONTRACTOR.
7. CONTRACTOR SHALL GIVE THE NOTIFICATION CENTER OF OKLAHOMA ONE-CALL SYSTEM, INC. NOTICE OF ANY EXCAVATION NO SOONER THAN TEN DAYS NOR LATER THAN 48 HOURS, EXCLUDING SATURDAYS, SUNDAYS AND LEGAL HOLIDAYS, PRIOR TO COMMENCEMENT OF WORK. PHONE 1-800-522-6543.
8. CONTRACTOR SHALL TAKE ALL REASONABLE PRECAUTIONS TO PREVENT EXCESS MOISTURE FROM INCLEMENT WEATHER OR OTHER SOURCES FROM ENTERING ANY STREET OR UTILITY EXCAVATION. IF EXCESS MOISTURE DOES ENTER THE EXCAVATION THROUGH THE NEGLIGENCE OF THE CONTRACTOR AND THE ADJOINING PAVEMENT IS ADVERSELY EFFECTED BY THE EXCESS MOISTURE, THE CONTRACTOR SHALL REPLACE THE ADJOINING PAVEMENT AND SUBBASE AT HIS SOLE EXPENSE.
9. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE FEDERAL, TRIBAL, STATE OR LOCAL LAWS GOVERNING HEALTH, SAFETY AND SANITATION. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ALL SAFEGUARDS, SAFETY DEVICES AND PROTECTIVE EQUIPMENT THE CONTRACTOR OR THE ENGINEER DETERMINE REASONABLY NECESSARY TO PROTECT THE PUBLIC, MOTORIST, PEDESTRIANS OR PROPERTY FROM HARM OR DAMAGE IN CONNECTION WITH THE PERFORMANCE OF THE WORK UNDER THIS CONTRACT.
10. THE CONTRACTOR SHALL TAKE PRECAUTIONS TO MINIMIZE DAMAGE TO TREES, SHRUBS, IRRIGATION SYSTEMS AND EXISTING LANDSCAPING DURING CONSTRUCTION, AND SHALL REPAIR ALL DAMAGE CAUSED AT THE CONTRACTOR'S EXPENSE AT NO ADDITIONAL COST TO THE OWNER.
11. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE AREAS SURROUNDING AND ADJACENT TO THE PROJECT AREA, AS WELL AS COMPLETED PROJECT ELEMENTS, FROM DAMAGE CAUSED BY THE CONTRACTOR'S OPERATIONS. DAMAGED ITEMS SHALL BE REPAIRED AT THE CONTRACTOR'S SOLE EXPENSE.
12. MASONRY STRUCTURES SHALL NOT BE CONSTRUCTED WITHIN THE RIGHT-OF-WAY.
13. COST OF ANY TEMPORARY FENCING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. NO ADDITIONAL PAYMENT SHALL BE MADE.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE HE MAY INFLICT TO THE EXISTING UNDERGROUND UTILITIES WITHIN THE PROJECT AREA AS A RESULT OF HIS DIGGING, TRENCHING, BORING, ETC. PRIOR TO DIGGING NEAR THE UTILITIES, THE CONTRACTOR SHALL CALL FOR A LIST OF ALL UNDERGROUND FACILITIES REGISTERED IN THE AREA OF CONSTRUCTION LISTED WITH THE FOLLOWING AGENCIES: THE "OKIE" NOTIFICATION CENTER (405) 840-5021 OR 1-800-522-6543; CONTRACTOR SHALL NOTIFY OWNER AND ENGINEER OF ANY CONFLICTS DISCOVERED.
15. NO DOWELED ON CURBS WILL BE ALLOWED ON THIS PROJECT
16. THE CONTRACTOR SHALL NOT WASTE ANY EXCESS EXCAVATION UNTIL ALL PLANNED EMBANKMENTS AND BACKFILLS ARE COMPLETED. EXCESS UNCLASSIFIED EXCAVATION MATERIAL DETERMINED BY THE ENGINEER TO BE SUITABLE FOR BACKFILL SHALL BE USED TO REDUCE ANY UNCLASSIFIED BORROW NEEDED. COST OF SECOND HANDLING SHALL BE INCLUDED IN OTHER ITEMS OF WORK. ANY REMAINING EXCESS EXCAVATION SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND DISPOSED OF IN A MANNER APPROVED BY THE ENGINEER.
17. PRIOR TO FINAL ACCEPTANCE, ALL EXPOSED CURB SURFACES SHALL BE CLEANED OF ALL DISCOLORATION SUCH AS ASPHALT STAIN, TIRE MARKS OR OTHER DISFIGUREMENT.

GENERAL EROSION CONTROL NOTES:

1. ALL GRADING AND EROSION CONTROL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE STORMWATER POLLUTION PREVENTION PLAN, THE CITY OF OCHELATA STANDARDS AND SPECIFICATIONS, AND STATE PERMITTING REQUIREMENTS, RE: ODEQ PERMIT OKR10.
2. THE PERMITTEE SHALL BE RESPONSIBLE FOR NOTIFYING THE LAND OWNER AND EACH CONTRACTOR OR ENTITY (INCLUDING UTILITY CREWS AND CITY EMPLOYEES OR THEIR AGENTS) WHO WILL PERFORM WORK AT THE SITE OF THE EXISTENCE OF THE SWPPP AND WHAT ACTIONS OR PRECAUTIONS SHALL BE TAKEN WHILE ON-SITE TO MINIMIZE THE POTENTIAL FOR EROSION AND THE POTENTIAL FOR DAMAGING ANY BMP. THE PERMITTEE IS RESPONSIBLE FOR ANY DAMAGE A SUBCONTRACTOR MAY DO TO ESTABLISHED BMPs AND ANY SUBSEQUENT WATER QUALITY VIOLATION RESULTING FROM THE DAMAGE.
3. ENSURE THE DESIGN, INSTALLATION, AND MAINTENANCE OF EFFECTIVE EROSION AND SEDIMENT CONTROLS TO MINIMIZE THE DISCHARGE OF POLLUTANTS. AT A MINIMUM, SUCH CONTROLS MUST BE DESIGNED, INSTALLED, AND MAINTAINED TO:
 - 3.1. CONTROL STORMWATER VOLUME, VELOCITY, AND PEAK FLOW RATES WITHIN THE SITE TO MINIMIZE SOIL EROSION;
 - 3.2. CONTROL STORMWATER DISCHARGES, INCLUDING BOTH PEAK FLOW RATES AND TOTAL STORMWATER VOLUME, TO MINIMIZE EROSION AT OUTLETS AND TO MINIMIZE DOWNSTREAM CHANNEL AND STREAM BANK EROSION AND SCOUR;
 - 3.3. MINIMIZE THE AMOUNT OF EXPOSED SOIL DURING CONSTRUCTION ACTIVITY;
 - 3.4. MINIMIZE THE DISTURBANCE OF STEEP SLOPES;
 - 3.5. MINIMIZE SEDIMENT DISCHARGES FROM THE SITE. ADDRESS FACTORS SUCH AS:
 - 3.6. PROVIDE AND MAINTAIN NATURAL BUFFERS AROUND SURFACE WATERS
 - 3.7. DIRECT STORMWATER TO VEGETATED AREAS TO INCREASE SEDIMENT REMOVAL AND MAXIMIZE STORMWATER INFILTRATION AND FILTERING, UNLESS INFEASIBLE; AND
 - 3.8. MINIMIZE SOIL COMPACTION AND PRESERVE TOPSOIL WHERE PRACTICABLE
4. INSTALLATION OF BMPs NECESSARY TO PREVENT SOIL EROSION AND SEDIMENTATION AT THE DOWNGRADE PROJECT BOUNDARY (E.G. BUFFERS, PERIMETER CONTROLS, EXIT POINT CONTROLS, STORM DRAIN INLET PROTECTION) MUST BE COMPLETE PRIOR TO THE START OF ALL PHASES OF CONSTRUCTION. BY THE TIME CONSTRUCTION ACTIVITY IN ANY GIVEN PORTION OF THE SITE BEGINS, DOWNGRADE BMPs MUST BE INSTALLED AND OPERATIONAL TO CONTROL DISCHARGES FROM THE INITIAL SITE CLEARING, GRADING, EXCAVATING, AND OTHER EARTH-DISTURBING ACTIVITIES. ADDITIONAL BMPs SHALL BE INSTALLED AS NECESSARY THROUGHOUT THE LIFE OF THE PROJECT. FOLLOWING THE INSTALLATION OF THESE INITIAL BMPs, ALL BMPs NEEDED TO CONTROL DISCHARGES SHALL BE INSTALLED AND MADE OPERATIONAL PRIOR TO SUBSEQUENT EARTH DISTURBING ACTIVITIES.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A STABILIZED CONSTRUCTION ENTRANCE AND FOR CLEANING OF VEHICLE WHEELS IN ACCORDANCE WITH THE CITY OF OCHELATA STANDARDS AND SPECIFICATIONS.
6. SILT FENCES: PLACEMENT OF SILT FENCES SHALL BE AS SHOWN ON THESE PLANS. FENCING WHICH BECOMES DAMAGED SHALL BE REPLACED PROMPTLY. DEPOSITS OF SILT WHICH BUILD UP BEHIND DIKES MAY BE DISKED ONTO THE SITE BEFORE PLACEMENT OF TEMPORARY COVER. AFTER TEMPORARY COVER IS PLACED OR AFTER LANDSCAPING COMMENCES, SILT SHALL BE REMOVED AND DISPOSED OF IN A MANNER APPROVED BY THE ENGINEER.
7. UNLESS LOCAL OR STATE REQUIREMENTS NECESSITATE MORE FREQUENT MONITORING, CONTRACTOR SHALL INSPECT EROSION CONTROL DEVICES EVERY 7 DAYS OR WITHIN 24 HOURS OF A STORM OF 0.5 INCHES OR MORE IN DEPTH (EXCLUSIVE OF HOLIDAYS). THE CONTRACTOR SHALL REPAIR DAMAGE, CLEAN OUT SEDIMENT, AND ADD ADDITIONAL CONTROL DEVICES AS NEEDED AS SOON AS POSSIBLE AFTER INSPECTION. DEFICIENCIES MUST BE CORRECTED WITHIN 7 DAYS.
8. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ANY AND ALL FINES ASSOCIATED WITH EROSION CONTROL VIOLATIONS.

TEMPORARY STABILIZATION:

1. INITIATE THE INSTALLATION OF STABILIZATION MEASURES IMMEDIATELY IN ANY DISTURBED AREAS WHERE CONSTRUCTION ACTIVITIES HAVE PERMANENTLY CEASED ON ANY PORTION OF THE SITE OR WILL BE TEMPORARILY INACTIVE FOR 14 OR MORE CALENDAR DAYS ON ANY PORTION OF THE SITE.
2. TEMPORARY STABILIZATION SHALL INCLUDE TEMPORARY SEEDING, GEOTEXTILES, MULCHES, AND/OR OTHER TECHNIQUES TO REDUCE OR ELIMINATE EROSION UNTIL EITHER FINAL STABILIZATION CAN BE ACHIEVED OR UNTIL FURTHER CONSTRUCTION ACTIVITIES TAKE PLACE TO RE-DISTURB THIS AREA.
3. TEMPORARY STABILIZATION SHALL BE INSTALLED IN ACCORDANCE WITH LOCAL AND STATE REQUIREMENTS.

FINAL STABILIZATION:

1. FINAL STABILIZATION SHALL BE INSTALLED IN ACCORDANCE WITH THE LANDSCAPE PLANS AND LOCAL AND STATE REQUIREMENTS.
2. CONTRACTOR SHALL MAINTAIN PERENNIAL VEGETATION UNTIL UNIFORM COVER IS ESTABLISHED. UNLESS OTHERWISE INDICATED IN THE CONTRACT DOCUMENTS, THIS SHALL INCLUDE A MINIMUM OF 70% COVERAGE AND NO BARE AREAS OF 10 SQUARE FEET OR MORE.

GENERAL UTILITY NOTES:

1. PRIOR TO CONSTRUCTION, LOCATION OF SITE UTILITIES SHALL BE VERIFIED BY CONTRACTOR WITH THE PROPER UTILITY COMPANY PROVIDING SERVICE. SERVICE LINES SHOWN FOR COORDINATION AND REFERENCE ONLY. CONTRACTOR SHALL COORDINATE WITH ALL SERVICE PROVIDERS (TELECOMMUNICATIONS, ELECTRIC, GAS, ETC.) PRIOR TO INSTALLING SERVICE LINES OR APPURTENANCES. CONTRACTOR IS TO COORDINATE WITH ALL UTILITY COMPANIES FOR INSTALLATION REQUIREMENTS AND SPECIFICATIONS.
2. THIS PLAN DEPICTS THE INTENT OF PRIVATE AND FRANCHISE UTILITY ROUTINGS AS UNDERSTOOD DURING DESIGN PHASES OF THE PROJECT. IT IS THE OWNER/DEVELOPER'S RESPONSIBILITY TO NEGOTIATE ALL CONTRACTS FOR SERVICE WITH EACH INDIVIDUAL UTILITY COMPANY AND TO PROVIDE THE ENGINEER WITH ANY DOCUMENTS THAT MAY AFFECT THE LAYOUT.
3. CONTRACTOR SHALL NOTIFY THE UTILITY AUTHORITIES' INSPECTORS BEFORE CONNECTING TO ANY EXISTING LINE IN ACCORDANCE WITH LOCAL REQUIREMENTS.
4. CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH THE SPECIFICATIONS OF THE LOCAL AUTHORITIES REGARDING THE MATERIALS AND INSTALLATION OF THE WATER AND SEWER LINES.
5. NOT ALL EXISTING UNDERGROUND UTILITIES MAY BE SHOWN ON THIS PLAN. THE EXACT LOCATIONS AND NOTIFICATIONS OF THE PROPER AGENCY ARE THE RESPONSIBILITY OF THE CONTRACTOR PRIOR TO CONSTRUCTION.
6. RESTRAINED JOINTS SHALL BE PROVIDED ON 4" AND LARGER WATER LINES AT ALL BENDS TEES AND FIRE HYDRANTS FOR A MINIMUM 2 JOINTS BOTH SIDES OF FITTING PER AWWA MINIMUM STANDARDS.
7. CONTRACTOR SHALL REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING PLANS FOR PRECISE BUILDING DIMENSIONS AND EXACT BUILDING UTILITY ENTRANCE LOCATIONS. TERMINATE SERVICE PIPING 5' FROM BUILDING WALL UNTIL BUILDING PIPING SYSTEMS ARE INSTALLED. TERMINATE PIPING WITH VALVE AND CAP PLUG OR FLANGE AS REQUIRED FOR PIPING MATERIAL. MAKE CONNECTIONS TO BUILDING PIPING SYSTEMS WHEN THOSE SYSTEMS ARE INSTALLED.
8. REFER TO PLUMBING AND/OR FIRE PROTECTION SHEETS FOR FIRE LINE LEAD-IN LOCATION AND DETAIL. CONTRACTOR SHALL UTILIZE AWWA AND FACTORY MUTUAL TEST AND CERTIFICATIONS FOR ALL UNDERGROUND FIRE PROTECTION LINES AS A MINIMUM. LOCAL OR STATE AUTHORITIES MAY REQUIRE MORE STRINGENT TESTING WHICH SHALL BE PROVIDED BY THE GC IF REQUIRED.
9. FIRE LINE BACKFLOW PREVENTER (DOUBLE CHECK ASSEMBLY) SHALL BE LOCATED INSIDE THE BUILDING.
10. ALL PIPING SHALL BE INSTALLED WITH A MINIMUM OF 30" OF COVER, UNLESS NOTED OTHERWISE. ALL TRENCHING, PIPE LAYING, AND BACKFILLING SHALL BE IN ACCORDANCE WITH FEDERAL OSHA REGULATIONS. UTILITY TRENCH DETAIL RE: 2/C801. STORM TRENCH DETAIL RE: 7/C800.
11. REFER TO MECHANICAL, ELECTRICAL, AND PLUMBING FOR CONTINUATION OF UTILITIES AT BUILDING.
12. THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF ALL CONDUITS (INCLUDING IRRIGATION SLEEVES) PRIOR TO PAVING WHETHER OR NOT SHOWN ON CIVIL PLANS. THE CONTRACTOR SHALL INSTALL ALL CONDUITS WITH A PULL STRING. ALL CONDUIT SHALL BE SCH. 40 PVC, UNLESS NOTED OTHERWISE.
13. CONSTRUCT CLAY TRENCH PLUG THAT EXTENDS AT LEAST 5 FEET OUT FROM THE FACE OF THE BUILDING EXTERIOR. THE PLUG MATERIAL SHALL CONSIST OF CLAY COMPACTED AT A WATER CONTENT AT OR ABOVE THE SOIL'S OPTIMUM WATER CONTENT. THE CLAY FILL SHALL BE PLACED TO COMPLETELY SURROUND THE UTILITY LINE AND BE COMPACTED TO AT LEAST 95% STANDARD PROCTOR DENSITY.
14. IF ANY EXISTING STRUCTURES TO REMAIN ARE DAMAGED DURING CONSTRUCTION IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR OR REPLACE THE EXISTING STRUCTURE AS NECESSARY.
15. ALL STORM PIPE ENTERING CONCRETE STRUCTURES SHALL BE GROUTED WITH NON SHRINK GROUT TO ASSURE CONNECTION AT STRUCTURE IS WATER TIGHT.
16. PROVIDE SLEEVE WITH LINK-SEAL (OR APPROVED EQUAL) AT GRADE BEAM PENETRATION LOCATIONS (RE: STRUCTURAL FOR DETAIL).
17. CONTRACTOR SHALL REFER TO ELECTRICAL SITE PLAN OR PHOTOMETRIC PLAN (BY OTHERS) FOR ALL SITE LIGHTING CONSTRUCTION DETAILS, REQUIREMENTS, AND FINAL POLE LOCATIONS. POLE LOCATIONS ARE SHOWN ON THIS SHEET FOR REFERENCE ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAKE ALL NECESSARY ADJUSTMENTS TO POLE LOCATIONS AS NECESSARY TO AVOID OBSTRUCTIONS (I.E., UNDERGROUND UTILITIES, SIDEWALKS, ETC...), CONTRACTOR SHALL POT HOLE EACH LOCATION WHERE A NEW LIGHT POLE IS TO BE PLACED PRIOR TO CONSTRUCTION TO VERIFY THERE ARE NO CONFLICTS WITH EXISTING UTILITIES. IF DAMAGES OCCUR TO EXISTING UTILITIES THEY WILL REPLACE OR REPAIR AT THEIR OWN EXPENSE. POLE LOCATIONS MAY NOT BE ADJUSTED WITHOUT PRIOR APPROVAL FROM THE ENGINEERS SINCE A CHANGE IN LOCATION CAN IMPACT THE INTENDED PHOTOMETRIC DESIGN.
18. CONTRACTOR SHALL COORDINATE THE CONSTRUCTION OF PROPOSED SIGN(S) AND INSTALLATION OF SECURITY CAMERAS WITH OWNER'S CONSTRUCTION MANAGER. COORDINATE WITH ELECTRICAL SITE PLAN TO PROVIDE ALL CONDUIT NEEDED FOR DATA AND/OR POWER TO SITE SIGN(S), SECURITY CAMERAS, AND LIGHT POLES.
19. UTILITY TRENCH DETAIL REFER TO MEP FOR CONTINUATION OF UTILITIES AT BUILDING.
20. ALL DIMENSION TO THE BACK OF CURB UNLESS NOTED OTHERWISE.



wallace design collective, pc
structural-civil-landscape-survey
123 north main street king j. blvd.
tulsa, oklahoma 74103
918.584.5858
oklahoma coti 460
exp: 6-30-25



CHEROKEE NATION
OCHELATA OK
OCHELATA, OKLAHOMA

REV	DESCRIPTION	DATE			
			100% CD		
1		09/15/23			

DATE 10/10/23
PROJECT NO. 2340348
SHEET NAME

GENERAL
NOTES

SHEET NO.
C101

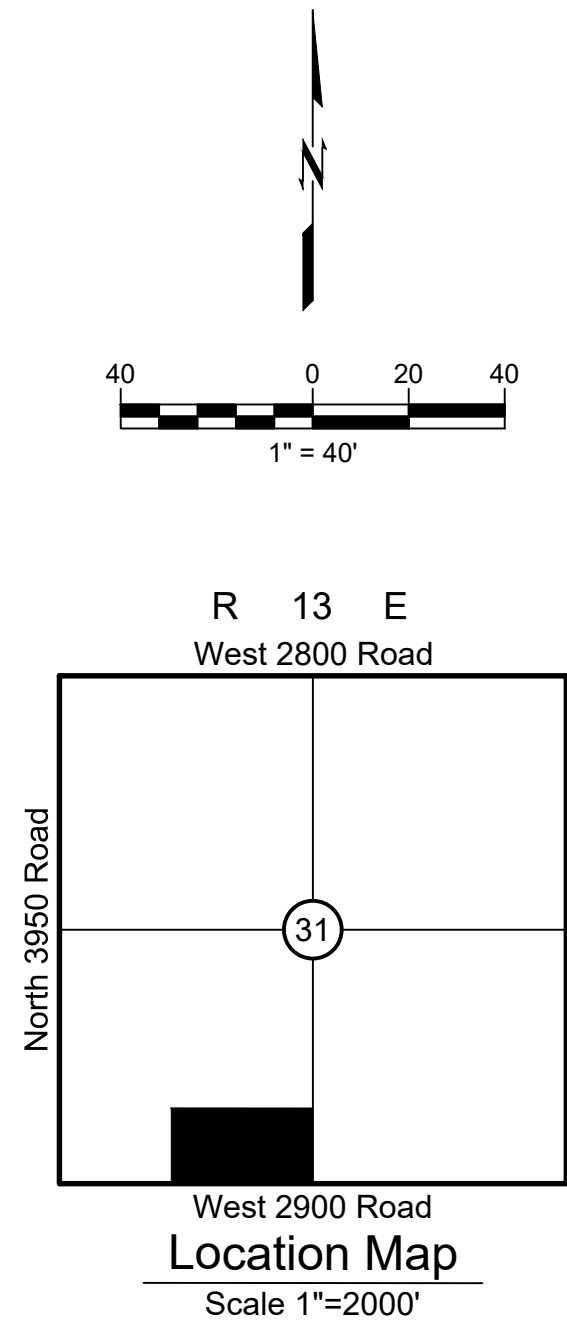
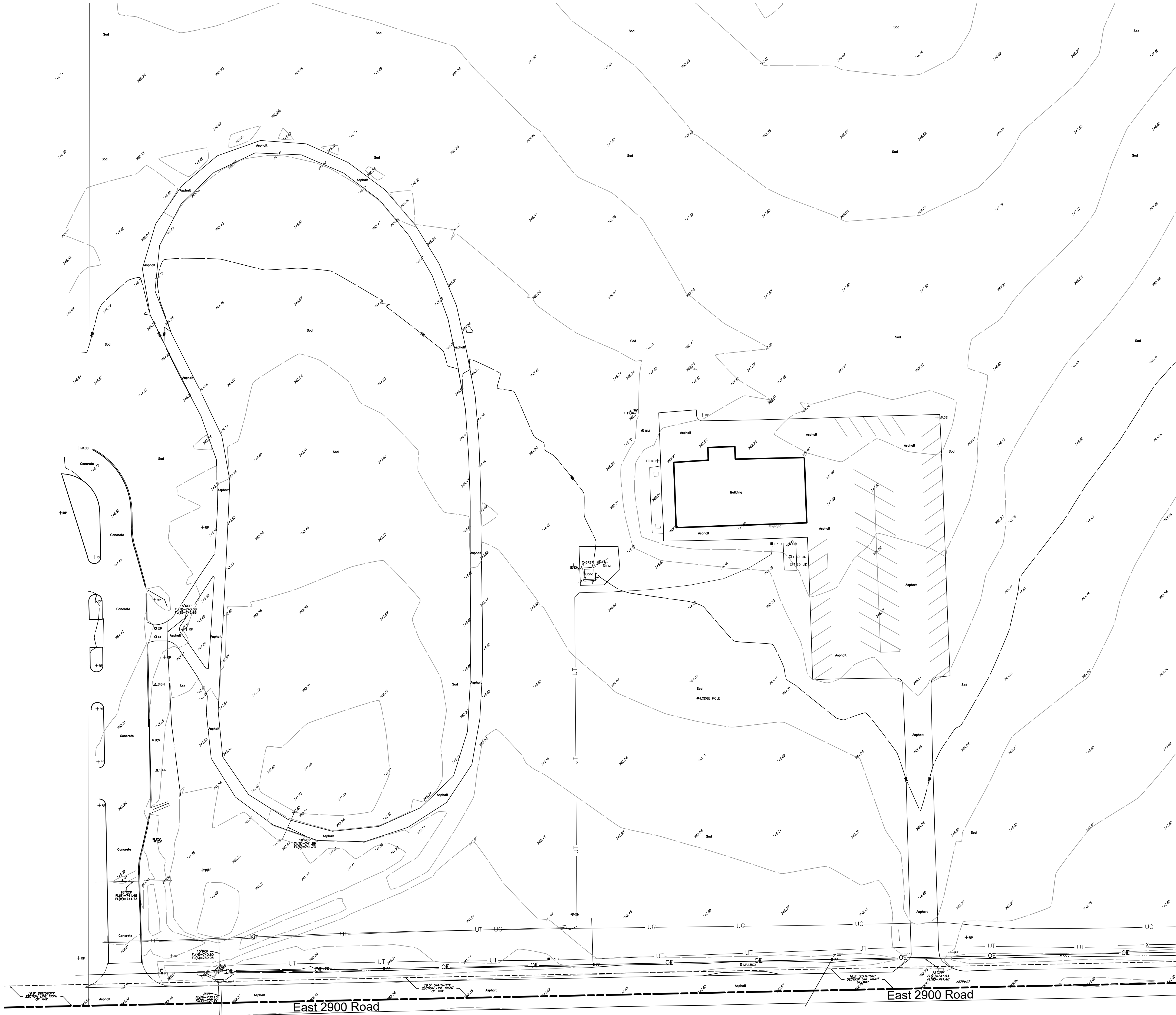


Know what's below.
Call before you dig.

CAUTION
NOTICE TO CONTRACTOR

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Z:\2340348 CN pre-con Site 7. OchelataDwg\PRODUCTION\2340348 survey.dwg PLOT:11/10/2023 2:42:33 PM ORIG SIZE:24"X36"



Benchmark Notes
Benchmark
1/2" IRON PIN
ELEV=732.40
N=587869.5210
E=2566591.5420

Legend

ACC	ACCESS	OT	OVERHEAD TELEPHONE
A/C	AIR CONDITIONER	OJ	OVERHEAD UTILITIES
BLDG	BUILDING	PV	POST INDICATOR VALVE
B/L	BUILDING SETBACK LINE	PP	POWER POLE
BW	BOTTOM OF WALL	PVC	POLYVINYL CHLORIDE PIPE
CMP	CORRUGATED METAL PIPE	RCB	REINFORCED CONCRETE BOX
CL	CENTERLINE	RCP	REINFORCED CONCRETE PIPE
CO	SEWER CLEAN-OUT	RR	RAILROAD
CONC	CONCRETE	R/W	RIGHT-OF-WAY
CPED	CABLE TELEVISION PEDESTAL	SC	SUPPORT COLUMN
DCDI	DOUBLE GRATE DROP INLET	SD	STORM DRAIN
DS	DOWNSPOUT	SDMH	STORM DRAIN MANHOLE
EM	ELECTRIC METER	SODI	SINGLE GRATE DROP INLET
EPED	ELECTRIC PEDESTAL	SPHD	SPRINKLER HEAD
ESMT	EASEMENT	SS	SANITARY SEWER
EX	EXISTING	SSLH	SANITARY SEWER LAMPHOLE
FF	FINISH FLOOR	SSMH	SANITARY SEWER MANHOLE
FL	FIRE HYDRANT	TG	TOP OF CURB
FL	FLOWLINE (INVERT)	TG	TOP OF INLET GRATE
FNC	FENCE	TDI	TRIPLE GRATE DROP INLET
FND	FOUND	TH	TOP OF HEADWALL
FP	FLAGPOLE	TP	TOP OF PAVING
G	GUTTER	TPED	TELEPHONE PEDESTAL
GL	GROUND LIGHT	TR	TOP OF MANHOLE RIM
GM	GAS METER	TR	TRAFFIC SIGNAL MANHOLE
GP	GUARD POST	TRSL	TRAFFIC SIGNAL
GR	GAS RISER	TW	TOP OF WALL
GUY	GUY DOWN	TYP	TYPICAL
ICV	IRRIGATION CONTROL VALVE	UC	UNDERGROUND CABLE
IP	IRON PIN	UG	UNDERGROUND GAS LINE
LNA	LIMITS OF NO ACCESS	UE	UNDERGROUND ELECTRIC
LP	LIGHT POLE	U/E	UTILITY EASEMENT
MA/E	MUTUAL ACCESS EASEMENT	UT	UNDERGROUND TELEPHONE
MB	MAIL BOX	UTMH	UTILITY MANHOLE
ML	METAL LID	WL	WATERLINE
MW	MONITOR WELL	WM	WATER METER
OC	OVERHEAD CABLE	WV	WATER VALVE
OE	OVERHEAD ELECTRIC	WW	WING WALL
OGE	OGE ENERGY CORPORATION	XFMR	TRANSFORMER
ONG	OKLAHOMA NATURAL GAS		

BM=BENCHMARK

Topographic Survey

of part of the
S/2, SW/4
Section 31, T-25-N, R-13-E
Washington County, Oklahoma

Surveyor's Certification

WE, WALLACE DESIGN COLLECTIVE, HEREBY CERTIFY THAT THE TOPOGRAPHICAL INFORMATION HEREON REPRESENTS A SURVEY PERFORMED UNDER OUR DIRECT SUPERVISION AND IS TRUE AND CORRECT TO THE BEST OF OUR KNOWLEDGE.

THIS TOPO SURVEY MEETS THE MINIMUM TECHNICAL STANDARDS, AS ADOPTED BY THE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS AND LAND SURVEYORS FOR THE STATE OF OKLAHOMA.

WITNESS MY HAND AND SEAL THIS 10TH DAY OF JULY, 2023.



BY: _____
CLIFF BENNETT
REGISTERED PROFESSIONAL LAND SURVEYOR
OKLAHOMA NO. 1815

Notes

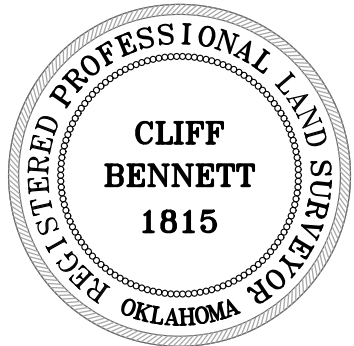
1. ABSTRACT OF TITLE OR ATTORNEY'S TITLE OPINION NOT AVAILABLE TO SURVEYOR AT DATE OF SURVEY.
2. THIS FIRM WAS NOT CONTRACTED TO RESEARCH EASEMENTS OR ENCUMBRANCES OF RECORD. NO ATTEMPT TO RESEARCH THE COUNTY RECORDS OR OTHER RECORD OFFICES WAS PERFORMED BY THIS FIRM, THEREFORE EASEMENTS MAY AFFECT THE SUBJECT TRACT THAT ARE NOT REFLECTED BY THIS PLAT.
3. ALL UNDERGROUND UTILITIES MAY NOT BE SHOWN. (CALL "OKIE" BEFORE DIGGING!!)
4. THE VERTICAL DATUM FOR THIS SURVEY IS BASED ON GPS DATA (NAVD88).
5. THE HORIZONTAL DATUM FOR THIS SURVEY IS BASED THE OKLAHOMA STATE PLANE COORDINATE SYSTEM NAD83.



Know what's below.
Call before you dig.

CAUTION NOTICE TO CONTRACTOR

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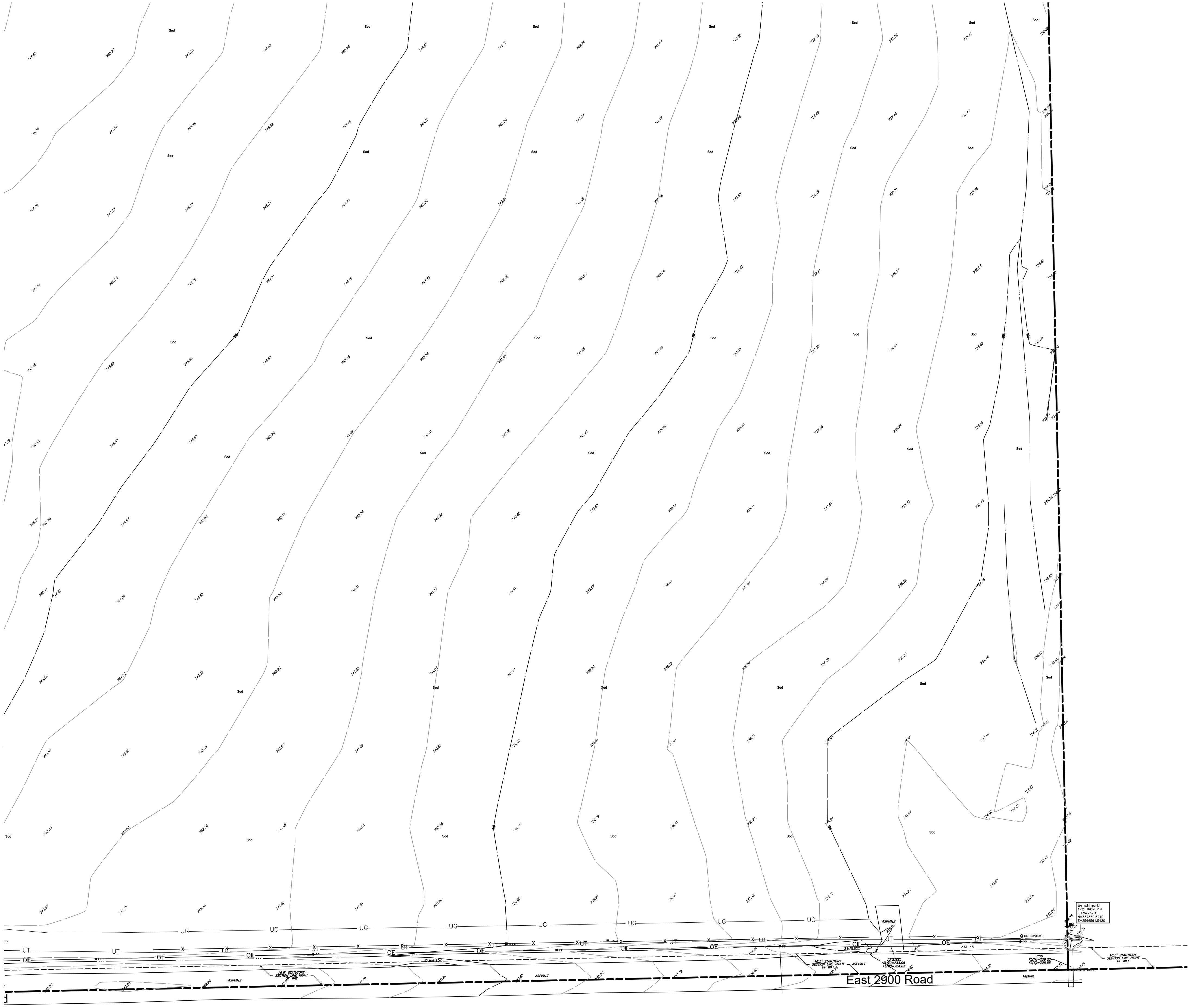
CHEROKEE NATION
OCHELATA OK
OCHELATA, OKLAHOMA

REV	DESCRIPTION	DATE	REV3DATE	REV4DATE	REV5DATE
1	100% CD	09/15/23			
2					
3	REV3DESC				
4	REV4DESC				
5	REV5DESC				

DATE: 10/10/23
PROJECT NO.: 2340348
SHEET NAME
TOPOGRAPHIC SURVEY
SHEET NO. **C200**

FILE:	2513.31	SURVEY BY:	RWE	DATE:	07/10/23
ORDER:	2340348.2	DRAWN BY:	ABS	SCALE:	1"=30'
BOOK:		CHECKED BY:	CDB	SHEET	1 OF 2

Z:\2340348 CN pre-con Site 7, Ochelata\DWG\PRODUCTION\2340348 survey.dwg PLOT:11/10/2023 2:42:33 PM ORIG SIZE:24"x36"



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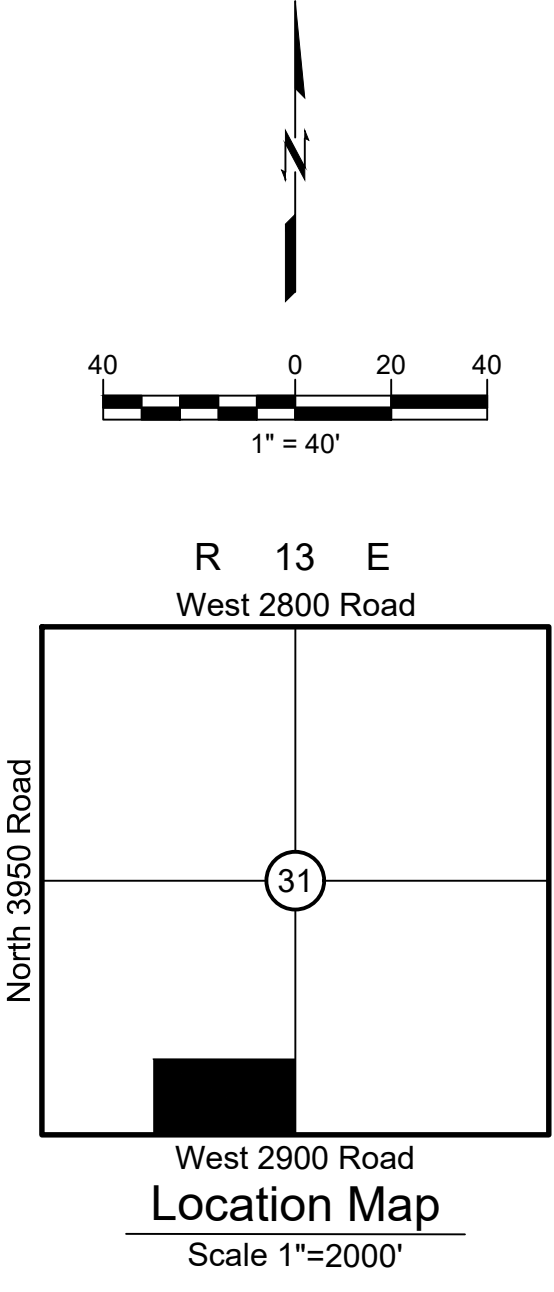
WITNESS MY HAND AND SEAL THIS 10TH DAY OF JULY, 2023.

FILE:	2513.31	SURVEY BY:	RWE	DATE:	07/10/23
ORDER:	2340348.2	DRAWN BY:	ABS	SCALE:	1"=30'
BOOK:		CHECKED BY:	CDB	SHEET	2 OF 2

BY: CLIFF BENNETT
REGISTERED PROFESSIONAL LAND SURVEYOR
OKLAHOMA NO. 1815

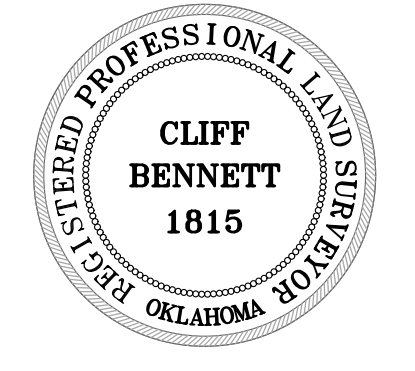
Topographic Survey
of part of the
S/2, SW/4
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Legend	
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MW	MONITOR WELL
OC	OVERHEAD CABLE
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OGE	OGE ENERGY CORPORATION
ONG	OKLAHOMA NATURAL GAS
OT	OVERHEAD TELEPHONE
OU	OVERHEAD UTILITIES
PIV	POST INDICATOR VALVE
PP	POWER POLE
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TGDI	TRIPLE GRATE DROP INLET
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TSMH	TRAFFIC SIGNAL MANHOLE
TRSL	TRAFFIC SIGNAL
TW	TOP OF WALL
TYP	TYPICAL
UC	UNDERGROUND CABLE
UG	UNDERGROUND GAS LINE
UE	UNDERGROUND ELECTRIC
U/E	UTILITY EASEMENT
UT	UNDERGROUND TELEPHONE
UTMH	UTILITY MANHOLE
WL	WATERLINE
WM	WATER METER
WV	WATER VALVE
WW	WING WALL
XFMR	TRANSFORMER



Benchmark Notes

Benchmark
1/2" IRON PIN
ELEV=732.40
N=587869.5210
E=2566591.5420

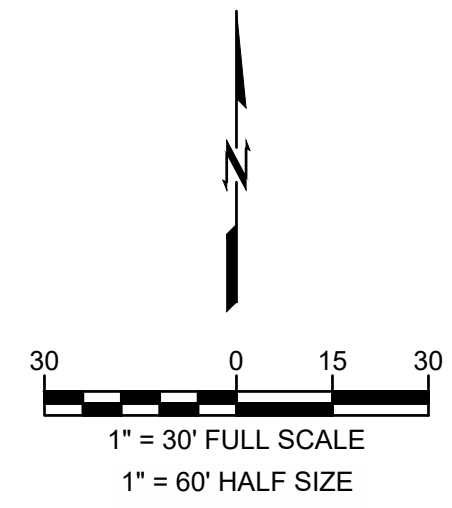


**CHEROKEE NATION
OCHELATA OK**

REV	DESCRIPTION	DATE	REV3DATE	REV4DATE	REV5DATE
1	100% CD	09/15/23			
2					
3	REV3DESC				
4	REV4DESC				
5	REV5DESC				

DATE: 10/10/23
PROJECT NO.: 2340348
SHEET NAME: TOPOGRAPHIC SURVEY
SHEET NO.: C201

1. ALL CONCRETE AND ASPHALT NOTED FOR REMOVAL SHALL BE SAW CUT FULL DEPTH AND REMOVED OFF SITE.
2. CONTRACTOR SHALL PROTECT ALL SURVEY CONTROL POINTS.
3. CONTRACTOR SHALL REMOVE ALL WASTE MATERIALS OFF SITE.
4. ALL EXISTING STRUCTURES, UNLESS OTHERWISE NOTED TO REMAIN, FENCING, TREES, ETC., WITHIN CONSTRUCTION AREA SHALL BE REMOVED & DISPOSED OF OFF SITE. ALL COST SHALL BE INCLUDED IN BASE BID.
5. WITH PRIOR APPROVAL, CONTRACTOR MAY ESTABLISH AN ON-SITE STAGING AREA. CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING STAGING AREA TO ITS ORIGINAL CONDITION. SECURITY OF STAGING AREA SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
6. ON-SITE VEGETATION SHALL BE PROTECTED AS NOTED. IN DESIGNATED PROTECTION AREAS WHERE THE CONTRACTOR DOES NOT PROTECT VEGETATION AS NOTED, CONTRACTOR SHALL RESTORE VEGETATION TO EXISTING CONDITION AT NO ADDITIONAL EXPENSE TO THE OWNER, TO THE SATISFACTION OF THE ARCHITECT.
7. CONTRACTOR SHALL PROTECT ALL ABOVE GROUND UTILITY FEATURES NOT BEING REMOVED INCLUDING, BUT NOT LIMITED TO, MANHOLES, VALVES, AND INLETS. IF ANY EXISTING STRUCTURES TO REMAIN ARE DAMAGED DURING CONSTRUCTION, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR OR REPLACE THE EXISTING STRUCTURE AS NECESSARY.
8. TOPSOIL STOCKPILES AND DISTURBED PORTIONS OF THE SITE, WHERE CONSTRUCTION ACTIVITY TEMPORARILY CEASES FOR AT LEAST 14 DAYS SHALL BE STABILIZED IMMEDIATELY WITH TEMPORARY SEED AND MULCH PER THE AUTHORITY HAVING JURISDICTION.
9. CONTRACTOR IS RESPONSIBLE FOR ALL TRAFFIC CONTROL DURING CONSTRUCTION INCLUDING, BUT NOT LIMITED TO, LANE CLOSURES, DETOURS, ETC. BOTH VEHICULAR AND PEDESTRIAN.
10. CONTRACTOR SHALL PROVIDE TEMPORARY UTILITY SERVICE IF REQUIRED.
11. CONTRACTOR SHALL ENSURE CONSTRUCTION SITE HAS POSITIVE DRAINAGE THROUGHOUT THE DURATION OF CONSTRUCTION.
12. PRIOR TO UTILITY DEMOLITION COORDINATE WITH AUTHORITY HAVING JURISDICTION.
13. UTILITIES BEING REMOVED OR RELOCATED SHALL BE ISOLATED AND SERVICE DISCONNECTED PRIOR TO ANY DEMOLITION.
14. NO UTILITY INTERRUPTIONS WILL BE ALLOWED WITHOUT CONSENT OF THE OWNER. CONTRACTOR SHALL NOTIFY THE OWNER AND ARCHITECT A MINIMUM OF FOUR WORKING DAYS PRIOR TO THE REQUESTED SHUT DOWN.



 STABILIZED CONSTRUCTION ENTRANCE
 SILT FENCE
 TEMPORARY SILT DIKE INLET
 REMOVE EXISTING TREES, ROOT BALL, SHRUBS FULL DEPTH
 LIMITS OF DISTURBANCE
 EXISTING SURFACE FLOW PATHS

CHEROKEE NATION
OCHELATA OK
OCHELATA, OKLAHOMA

REV	DESCRIPTION	DATE
1	100% CD	09/15/23

DATE

10/10/23

PROJECT NO.

2340348

SHEET NAME

DEMOLITION
EROSION
CONTROL PLAN

SHEET NO.

C300



CAUTION
NOTICE TO CONTRACTOR

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GENERAL SITE NOTES:

- ALL WORK AND MATERIALS SHALL COMPLY WITH ALL MUNICIPAL REGULATIONS AND CODES, WHICHEVER IS MORE STRINGENT.
- ALL WORK AND MATERIALS SHALL COMPLY WITH O.S.H.A. STANDARDS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RELOCATIONS, INCLUDING BUT NOT LIMITED TO, ALL UTILITIES, STORM DRAINAGE, SIGNS, TRAFFIC SIGNALS & POLES, ETC. AS REQUIRED. ALL WORK SHALL BE IN ACCORDANCE WITH GOVERNING AUTHORITIES' SPECIFICATIONS AND SHALL BE APPROVED BY SUCH. ALL COST SHALL BE INCLUDED IN BASE BID.
- ALL DIMENSIONS AND COORDINATES ARE FROM BACK OF CURB UNLESS SHOWN OTHERWISE.
- REFER TO C700 FOR ROADWAY GEOMETRICS.
- CONCRETE PAVING SECTIONS SHALL BE SAWCUT AT 12" MAXIMUM SPACING EACH.
- REFER TO 7/C800 FOR ROADWAY TYPICAL SECTION.
- REFER TO UTILITY PLAN (C600) FOR UTILITY MAINS.
- FOR HOUSING FLOOR PLANS, RE: ARCH

BENCHMARKS

BENCHMARKS PER TOPOGRAPHIC SURVEY COMPLETED BY BENNETT SURVEYING, INC., DATED 07.10.2023.

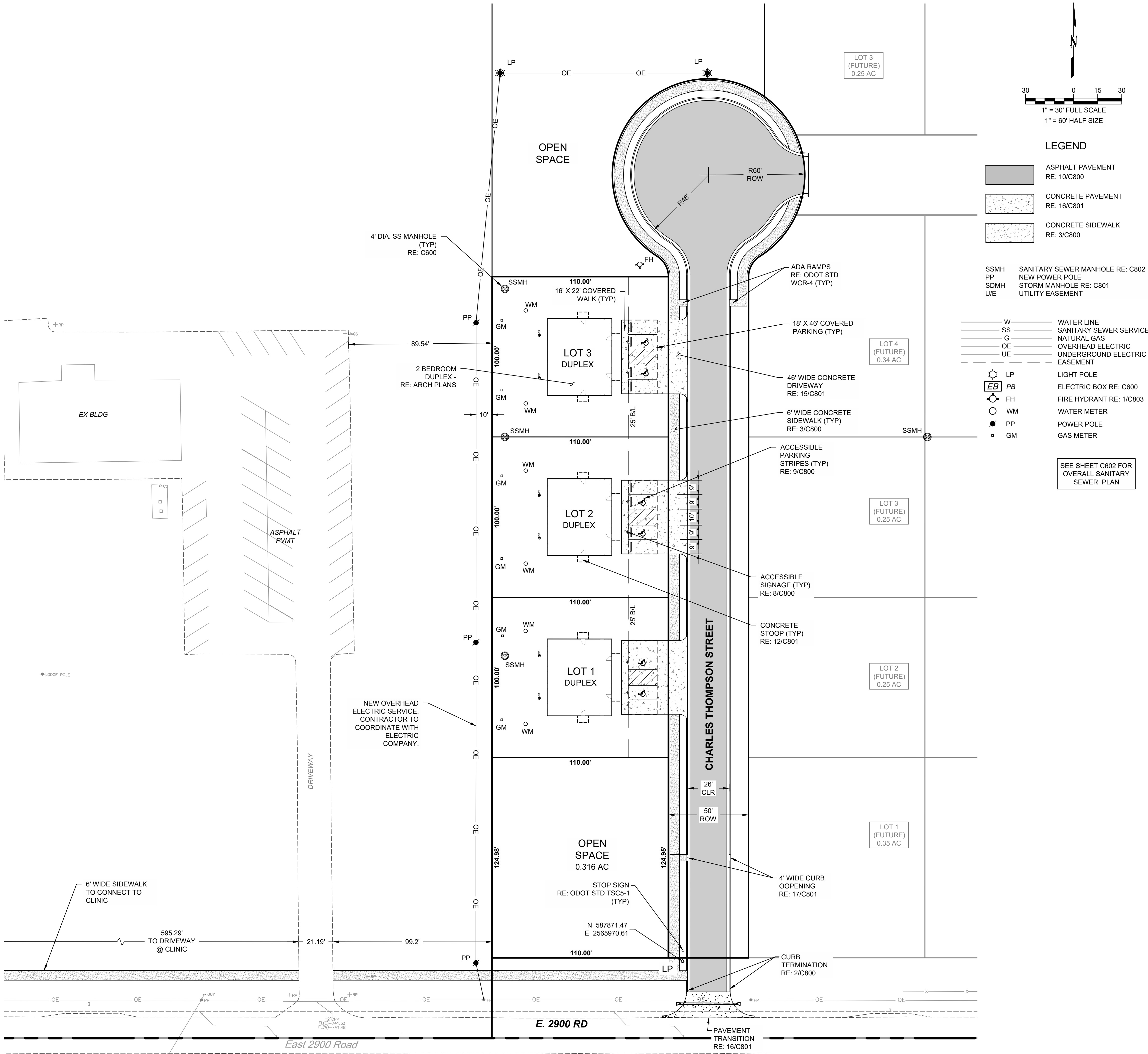
BENCHMARK
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NOTICE TO CONTRACTOR

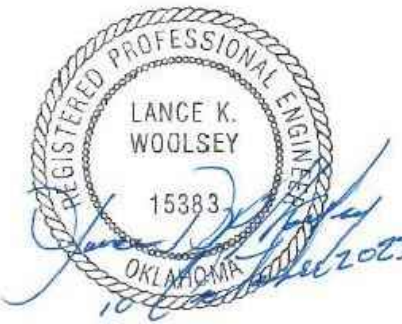
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tulsa, oklahoma 74103
918.584.5858
oklahoma co1460
exp: 6-30-25



CHEROKEE NATION
OCHELATA OK
OCHELATA, OKLAHOMA

DATE
09/15/23

DESCRIPTION

1 100% CD

DATE 10/10/23

PROJECT NO. 2340348

SHEET NAME

SITE PLAN

SHEET NO.

C400

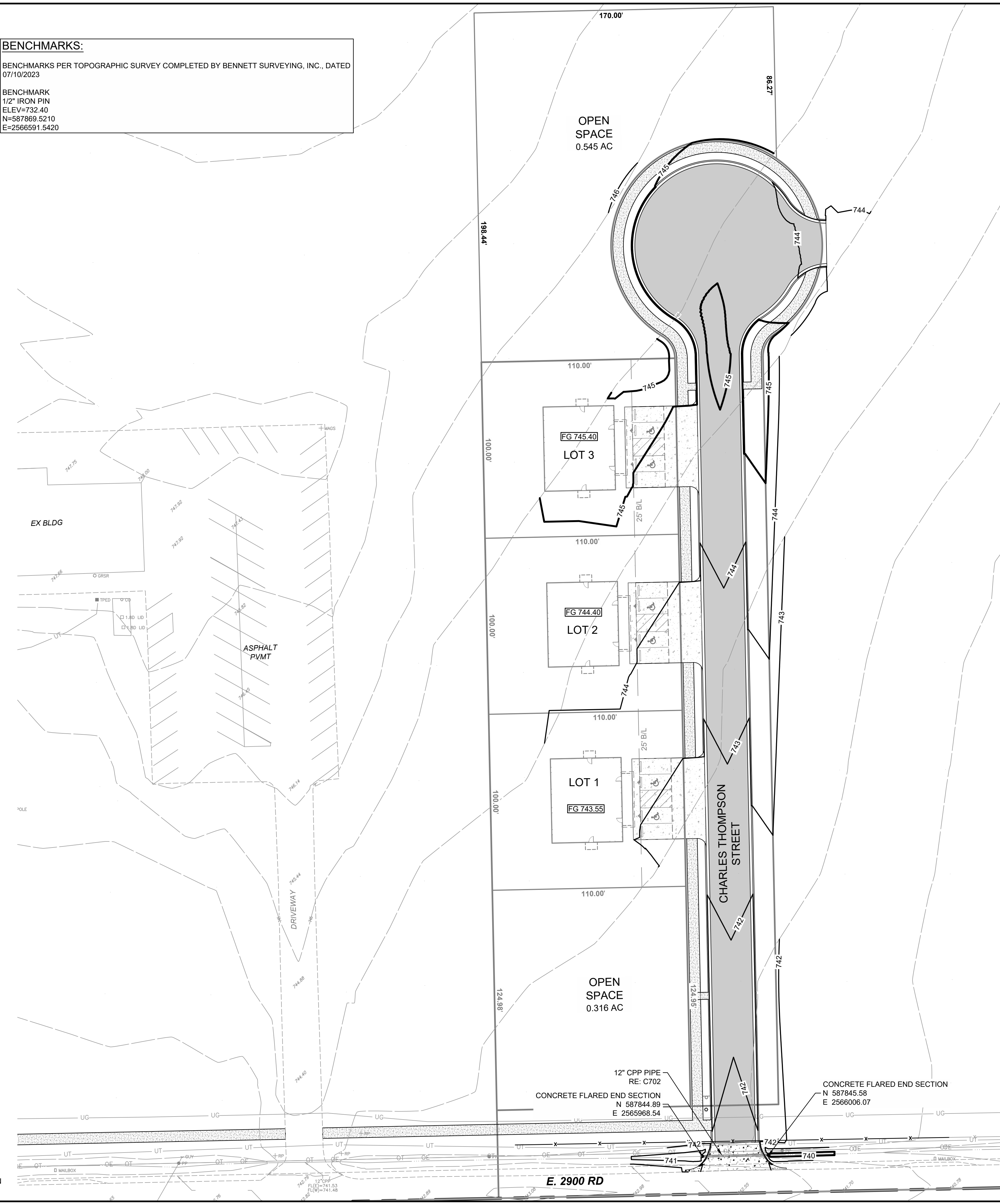
GENERAL GRADING NOTES:

- CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE GOVERNING CODES. SITE GRADING SHALL NOT PROCEED UNTIL EROSION CONTROL MEASURES HAVE BEEN INSTALLED, INSPECTED, AND APPROVED BY LOCAL AUTHORITIES.
- ALL BENCHMARKS, CONTROL POINTS, PROPERTY MARKERS, AND RIGHT-OF-WAY MONUMENTS DISTURBED OR DESTROYED SHALL BE RESET UNDER THE SUPERVISION OF A PROFESSIONAL LAND SURVEYOR LICENSED IN THE STATE OF OKLAHOMA. ALL SURVEYING COSTS SHALL BE THE CONTRACTOR'S.
- THE CONTRACTOR SHALL VERIFY UTILITY LOCATIONS BEFORE EXCAVATING.
- TOPSOIL SHALL BE STRIPPED TO A DEPTH WHERE SOIL IS FREE OF ROOTS AND VEGETATION.
- REFERENCE GEOTECHNICAL ENGINEERING REPORT BY BUILDING AND EARTH DATED 03/08/2023 FOR COMPLETE PAVING AND SUBGRADE RECOMMENDATIONS. CIVIL ENGINEER WILL NOT INTERPRET SOILS REPORTS OR ACCEPT RESPONSIBILITY FOR ALTERNATIVE METHODS PROPOSED BY THE CONTRACTOR.
- UNDERCUTTING OF SOFT SPOTS AND PLACEMENT OF EARTHWORK IS GOVERNED FIRST BY THE GEOTECHNICAL REPORT. OBSERVATION AND TESTING SHALL BE PERFORMED BY A QUALIFIED GEOTECHNICAL ENGINEER TO VERIFY THAT THE SOFT SPOTS ARE PROPERLY OVEREXCAVATED AND REPLACED OR STABILIZED.
- IF EXCAVATED MATERIAL IS UNSUITABLE FOR COMPACTION, AS DETERMINED BY THE GEOTECHNICAL ENGINEER, THE CONTRACTOR SHALL FURNISH SUITABLE BORROW.
- STRIPPING, PROOFROLLING, SUBGRADE SCARIFICATION, COMPACTION, AND FILL CONSTRUCTION IN THE BUILDING AND PAVING AREAS SHALL BE PERFORMED ACCORDING TO THE GEOTECHNICAL REPORT. EMBANKMENT BENEATH BUILDING PADS OR FOR PAVING SUBGRADE SHALL BE PLACED IN LIFTS NOT EXCEEDING EIGHT (8) INCHES AND COMPACTED TO A MINIMUM OF 98% AND 95% STANDARD PROCTOR DENSITY, RESPECTIVELY, AT OPTIMUM MOISTURE CONTENT UNLESS OTHERWISE SPECIFIED THEREIN. CONTRACTOR SHALL PROVIDE WATER AS REQUIRED TO OBTAIN SPECIFIED COMPACTION.
- EXCAVATE TO INDICATED ELEVATIONS AND DIMENSIONS WITHIN A TOLERANCE OF PLUS OR MINUS 1 INCH. IF APPLICABLE, EXTEND EXCAVATIONS A SUFFICIENT DISTANCE FROM STRUCTURES FOR PLACING AND REMOVING CONCRETE FORMWORK, FOR INSTALLING SERVICES AND OTHER CONSTRUCTION, AND FOR INSPECTIONS.
- PAVING CONTRACTOR IS RESPONSIBLE TO REVIEW ALL FIELD ESTABLISHED GRADES PRIOR TO PLACEMENT OF MATERIALS SO AS TO PROVIDE POSITIVE DRAINAGE IN ALL CASES.
- CONTRACTOR SHALL COORDINATE AND PROVIDE ALL STAKING NECESSARY TO INSTALL CONDUITS SUFFICIENT FOR UTILITY AND IRRIGATION SERVICES WHETHER OR NOT SHOWN ON THE CIVIL ENGINEER'S PLANS.
- GRADES NOT OTHERWISE INDICATED ON THE PLANS SHALL BE UNIFORM LEVELS OR SLOPES BETWEEN POINTS WHERE ELEVATIONS ARE GIVEN. ABRUPT CHANGES IN SLOPES SHALL BE WELL ROUNDED. THE CONTRACTOR IS RESPONSIBLE FOR POSITIVE SITE DRAINAGE.
- CONTRACTOR IS RESPONSIBLE TO MEET AND MATCH NEW PAVEMENT WITH EXISTING ADJACENT PAVEMENT AREAS. THE TRANSITION BETWEEN THIS SITE AND ADJACENT SITES MUST BE SMOOTH AND MONOLITHIC. ALL GRADING MUST MEET AND MATCH GRADES ON ALL SIDES.
- ACCESSIBLE ROUTES AND SIDEWALKS ARE NOT TO EXCEED 5% RUNNING SLOPE (EXCEPT AT RAMPS) AND 2% CROSS. ACCESSIBLE PARKING AND ACCESS AISLES NOT TO EXCEED 2% SLOPE IN ANY DIRECTION. ALL RAMPS SHALL COMPLY WITH THE APPLICABLE ACCESSIBLE DESIGN GUIDELINES.
- ALL CUT OR FILL SLOPES SHALL BE 3H:1V OR FLATTER UNLESS OTHERWISE NOTED.
- LANDSCAPE ISLANDS TO BE FILLED WITH SOIL SUITABLE FOR VEGETATION. THE CONTRACTOR WILL INSURE THAT NO PONDING WILL OCCUR AT LANDSCAPE ISLANDS. ALL SURFACE WATER MUST DRAIN AROUND THE ISLAND WITH POSITIVE SLOPE. NO WATER SHALL BE TRAPPED.
- CONTRACTOR SHALL MEET AND MATCH TOP OF JUNCTION BOXES/MANHOLES OR CLEANOUTS WITH FINISHED PAVING GRADES. FINAL GRADES OF ABOVE SURFACE UTILITIES NOT IN PAVED AREAS, INCLUDING BUT NOT LIMITED TO JUNCTION BOX/MANHOLE LIDS, WATER METER LIDS, AND SEWER CLEANOUTS, ARE TO BE ADJUSTED BY THE UTILITY CONTRACTOR TO CONFORM TO LANDSCAPING SOD INSTALLATIONS.
- CONTRACTOR SHALL REFER TO ARCHITECTURAL AND MEP PLANS FOR THE EXACT LOCATIONS AND DIMENSIONS OF ENTRY, EXIT PORCHES, PRECISE BUILDING DIMENSIONS, EXACT BUILDING UTILITY ENTRANCE LOCATIONS, AND DOWNSPOUTS.
- EXISTING DRAINAGE STRUCTURES TO BE INSPECTED AND REPAIRED AS NEEDED. EXISTING PIPES ARE TO BE CLEANED OUT TO REMOVE ALL SILT AND DEBRIS AT THE COMPLETION OF THE PROJECT.
- IF ANY EXISTING STRUCTURES TO REMAIN ARE DAMAGED DURING CONSTRUCTION, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR OR REPLACE THE EXISTING STRUCTURE AS NECESSARY.
- ALL STORM PIPE ENTERING CONCRETE STRUCTURES SHALL BE GROUTED TO ENSURE CONNECTION AT STRUCTURE IS WATER TIGHT.
- CONTRACTOR IS RESPONSIBLE FOR TEMPORARY ACCESS ROADS AND SHALL MAINTAIN POSITIVE DRAINAGE AWAY FROM BUILDING AND STRUCTURES FOR ALL GRASSED AND PAVED AREAS OF ENTIRE SITE THROUGHOUT CONSTRUCTION AND AVOID PONDING OR RUTTING. TEMPORARY DEWATERING, INCLUDING PUMPING, MAY BE REQUIRED AND SHALL BE INCLUDED IN THE SCOPE OF WORK.
- UNLESS OTHERWISE INDICATED, ALL DISTURBED SOIL AREAS SHALL RECEIVE FOUR (4) INCHES OF TOPSOIL AND SHALL BE PERMANENTLY STABILIZED WITH SEED OR SOD.
- REMOVE ALL TREES (INCLUDING ROOTBALLS), GRASS, WEEDS, ROOTS, AND OTHER DEBRIS FROM THE AREA TO BE EXCAVATED, FILLED, OR GRADED.
- EXISTING TREES WHERE INDICATED SHALL BE PROTECTED FROM CONSTRUCTION ACTIVITIES. ALL TREE PROTECTION MEASURES SHALL BE INSTALLED PRIOR TO GRADING. ALL TREE PROTECTION FENCING TO BE INSPECTED DAILY AND ALL GRADING ACTIVITIES TO REMAIN OUTSIDE THE DRIP LINES.

BENCHMARKS:

BENCHMARKS PER TOPOGRAPHIC SURVEY COMPLETED BY BENNETT SURVEYING, INC., DATED 07/10/2023

BENCHMARK
1/2" IRON PIN
ELEV=732.40
N=587889.5210
E=2566591.5420



Know what's below.
Call before you dig.

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oklahoma ccl1460
exp: 6-30-25



CHEROKEE NATION
OCHELATA OK

OCHELATA, OKLAHOMA

REV	DESCRIPTION	DATE
1	100% CD	09/15/23

DATE	10/10/23
PROJECT NO.	2340348
SHEET NAME	

GRADING PLAN

SHEET NO.
C500

Z:\2340348 CN pre-con Site 7. OchelataDwg\PRODUCT\N2340348 SWMP.dwg PLOT:11/10/2023 2:46:45 PM ORIG SIZE:24"X36"

STORM WATER MANAGEMENT PLAN

SITE DESCRIPTION

PROJECT LIMITS:

N=587804.19

E=2565098.62

N=588592.16

E=2565099.14

N=588622.30

E=2566576.24

N=587836.51

E=2566592.27

PROJECT DESCRIPTION:

DEVELOPMENT OF RESIDENTIAL HOUSING FOR CHEROKEE NATION THAT INCLUDES THE EXTENSION OF THE SANITARY SEWER AND WATER MAINS, NATURAL GAS, ELECTRIC SERVICE AND ROADWAY..

SOIL TYPE:

LEAN TO FAT CLAYS AND LEAN CLAYS WITH SAND

TOTAL AREA OF THE CONSTRUCTION SITE:

3.8 AC

ESTIMATED AREA TO BE DISTURBED:

3.5 AC

OFFSITE AREA TO BE DISTURBED:
(FOR CONTRACTOR USE)

0

TOTAL IMPERVIOUS AREA
PRE-CONSTRUCTION:

2.3 AC

TOTAL IMPERVIOUS AREA
POST-CONSTRUCTION:

3.2 AC

POST-CONSTRUCTION RUNOFF
COEFFICIENT OF THE SITE:

-

LATITUDE & LONGITUDE
OF CENTER OF PROJECT:

36.598486° N, 95.964536° W

PROJECT WILL DISCHARGE TO:

CANEY RIVER

NAME OF RECEIVING WATERS:

CANEY RIVER

SENSITIVE WATERS OR WATERSHEDS:

YES ☐ NO ☒

303(d) IMPAIRED WATERS:

YES ☒ NO ☐

IF YES, LIST IMPAIRMENT:

ENTEROCOCC

LOCATED IN A TMDL:

YES ☐ NO ☒

LAKE THUNDERBIRD TMDL:

YES ☐ NO ☒

MS4 ENTITY

YES ☐ NO ☒

IF YES, LOCATION:

NOTE:

THIS SHEET SHOULD BE USED IN CONJUNCTION WITH A DRAINAGE MAP THAT ILLUSTRATES THE DRAINAGE PATTERNS/PATHWAYS AND RECEIVING WATERS FOR THIS PROJECT. THIS SHEET SHOULD ALSO BE USED WITH THE EROSION CONTROL SUMMARIES, PAY ITEMS, & NOTES.

EROSION AND SEDIMENT CONTROLS

SOIL STABILIZATION PRACTICES:

☒ TEMPORARY SEEDING

☒ PERMANENT SODDING, SPRIGGING OR SEEDING

VEGETATIVE MULCHING

SOIL RETENTION BLANKET

☒ PRESERVATION OF EXISTING VEGETATION

HYDROMULCH / HYDRO SEED

NOTE: TEMPORARY EROSION CONTROL METHODS MUST BE USED ON ALL DISTURBED AREAS WHERE CONSTRUCTION ACTIVITIES HAVE CEASED FOR OVER 14 DAYS. METHODS USED WILL BE AS SHOWN ON PLANS, OR AS DIRECTED BY THE ENGINEER.

STRUCTURAL PRACTICES:

☒ STABILIZED CONSTRUCTION EXIT

☒ TEMPORARY SILT FENCE

☒ TEMPORARY SILT DIKES

TEMPORARY FIBER LOG

DIVERSION, INTERCEPTOR OR PERIMETER DIKES

DIVERSION, INTERCEPTOR OR PERIMETER SWALES

ROCK FILTER DAMS

TEMPORARY SLOPE DRAIN

PAVED DITCH W/ DITCH LINER PROTECTION

TEMPORARY DIVERSION CHANNELS

TEMPORARY SEDIMENT BASINS

TEMPORARY SEDIMENT TRAPS

TEMPORARY SEDIMENT FILTERS

☒ TEMPORARY SEDIMENT REMOVAL

RIP RAP

INLET SEDIMENT FILTER

TEMPORARY BRUSH SEDIMENT BARRIERS

SANDBAG BERMS

TEMPORARY STREAM CROSSINGS

FLEXMAT / ARTICULATED CONCRETE BLOCK

COMPOST FILTER SOCK

EROSION CONTROL MATS AND BLANKETS

OFFSITE VEHICLE TRACKING:

☒ HAUL ROADS DAMPENED FOR DUST CONTROL

☒ LOADED HAUL TRUCKS TO BE COVERED WITH TARPULIN

☒ EXCESS DIRT ON ROAD REMOVED DAILY

NOTES:

THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR THE FOLLOWING:

MAINTENANCE AND INSPECTION:

ALL EROSION AND SEDIMENT CONTROLS WILL BE MAINTAINED IN GOOD WORKING ORDER FROM THE BEGINNING OF CONSTRUCTION UNTIL AN ACCEPTABLE VEGETATIVE COVER IS ESTABLISHED. INSPECTION BY THE CONTRACTOR AND ANY NECESSARY REPAIRS SHALL BE PERFORMED ONCE EVERY 7 CALENDAR DAYS AND WITHIN 24 HOURS AFTER ANY STORM EVENT GREATER THAN 0.5 INCH AS RECORDED BY A NON-FREEZING RAIN GAUGE TO BE LOCATED ON SITE. POTENTIALLY ERODIBLE AREAS, DRAINAGEWAYS, MATERIAL STORAGE, STRUCTURAL DEVICES, CONSTRUCTION ENTRANCES AND EXITS ALONG WITH EROSION AND SEDIMENT CONTROL LOCATIONS ARE EXAMPLES OF SITES THAT NEED TO BE INSPECTED.

WASTE MATERIALS:

PROPER MANAGEMENT AND DISPOSAL OF CONSTRUCTION WASTE MATERIAL IS REQUIRED BY THE CONTRACTOR. MATERIALS INCLUDE STOCKPILES, SURPLUS, DEBRIS AND ALL OTHER BY-PRODUCTS FROM THE CONSTRUCTION PROCESS. PRACTICES INCLUDE DISPOSAL, PROPER MATERIALS HANDLING, SPILL PREVENTION AND CLEANUP MEASURES. CONTROLS AND PRACTICES SHALL MEET THE REQUIREMENTS OF ALL FEDERAL, STATE AND LOCAL AGENCIES.

HAZARDOUS MATERIALS:

PROPER MANAGEMENT AND DISPOSAL OF HAZARDOUS WASTE MATERIALS IS REQUIRED. THE CONTRACTOR IS RESPONSIBLE FOR FOLLOWING MANUFACTURER'S RECOMMENDATIONS, STATE AND FEDERAL REGULATIONS TO ENSURE CORRECT HANDLING, DISPOSAL, SPILL PREVENTION AND CLEANUP MEASURES. EXAMPLES INCLUDE BUT ARE NOT LIMITED TO: PAINTS, ACIDS, CLEANING SOLVENTS, CHEMICAL ADDITIVES, CONCRETE CURING COMPOUNDS AND CONTAMINATED SOILS.

GENERAL NOTES:

A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) IS REQUIRED TO COMPLY WITH THE OKLAHOMA POLLUTION DISCHARGE ELIMINATION SYSTEM (OPDES) REGULATIONS. THIS PLAN IS INITIATED DURING THE DESIGN PHASE, CONFIRMED IN THE PRE-WORK MEETINGS AND AVAILABLE ON THE JOB SITE ALONG WITH COPIES OF THE NOTICE OF INTENT (NOI) FORM AND PERMIT CERTIFICATE THAT HAVE BEEN FILED WITH THE OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY (ODEQ). THE PLAN MUST BE KEPT CURRENT WITH UP-TO-DATE AMENDMENTS DURING THE PROGRESSION OF THE PROJECT. ALL CONTRACTOR OFF-SITE OPERATIONS ASSOCIATED WITH THE PROJECT MUST BE DOCUMENTED IN THE SWPPP, I.E., BORROW PITS, WORK ROADS, DISPOSAL SITES, ASPHALT/CONCRETE PLANTS, ETC. THE BASIC GOAL OF STORM WATER MANAGEMENT IS TO IMPROVE WATER QUALITY BY REDUCING POLLUTANTS IN STORM WATER DISCHARGES. RUNOFF FROM CONSTRUCTION SITES HAS A POTENTIAL FOR POLLUTION DUE TO EXPOSED SOILS AND THE PRESENCE OF HAZARDOUS MATERIALS USED IN THE CONSTRUCTION PROCESS. THE PREVENTION OF SOIL EROSION, CONTAINMENT OF HAZARDOUS MATERIALS AND/OR THE INTERCEPTION OF THESE POLLUTANTS BEFORE LEAVING THE CONSTRUCTION SITE ARE THE BEST PRACTICES FOR CONTROLLING STORM WATER POLLUTION.

THE FOLLOWING SECTIONS OF THE 2009 ODOT STANDARD SPECIFICATIONS SHOULD BE NOTED:

103.05 BONDING REQUIREMENTS

104.10 FINAL CLEANING UP

104.12 CONTRACTOR'S RESPONSIBILITY FOR WORK

104.13 ENVIRONMENTAL PROTECTION

106.08 STORAGE AND HANDLING OF MATERIAL

107.01 LAWS, RULES AND REGULATIONS TO BE OBSERVED

107.20 STORM WATER MANAGEMENT

220 MANAGEMENT OF EROSION, SEDIMENTATION AND STORM WATER POLLUTION PREVENTION AND CONTROL

221 TEMPORARY SEDIMENT CONTROL

IN ADDITION:

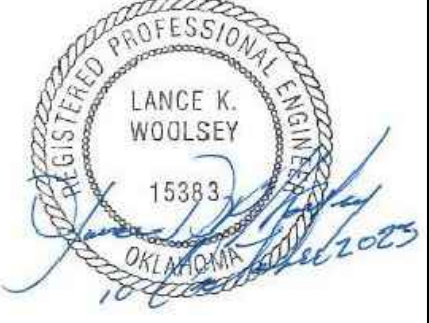
"EPA SWPPP TEMPLATE, VERSION 2.1 FOR STORM WATER DISCHARGES FROM CONSTRUCTION ACTIVITIES WITHIN THE STATE OF OKLAHOMA."

ADDITIONAL PERMITS REQUIRED FROM OKLAHOMA WATER RESOURCES BOARD AND/OR MUNCIPALITY FOR USE OF SURFACE, GROUND OR CITY WATER SOURCES FOR ACTIVITIES SUCH AS WATERING.



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CHEROKEE NATION
OCHELATA OK

OCHELATA, OKLAHOMA

DATE	09/15/23				
REV	1	100% CD			
DESCRIPTION					
DATE	10/10/23				
PROJECT NO.	2340348				
SHEET NAME	STORM MANAGEMENT PLAN				
SHEET NO.	C500				

GENERAL UTILITY NOTES:

- PRIOR TO CONSTRUCTION, LOCATION OF SITE UTILITIES SHALL BE VERIFIED BY CONTRACTOR WITH THE PROPER UTILITY COMPANY PROVIDING SERVICE. SERVICE LINES SHOWN FOR COORDINATION AND REFERENCE ONLY. CONTRACTOR SHALL COORDINATE WITH ALL SERVICE PROVIDERS (TELECOMMUNICATIONS, ELECTRIC, GAS, ETC.) PRIOR TO INSTALLING SERVICE LINES OR APPURTENANCES. CONTRACTOR IS TO COORDINATE WITH ALL UTILITY COMPANIES FOR INSTALLATION REQUIREMENTS AND SPECIFICATIONS.
- THIS PLAN DEPICTS THE INTENT OF PRIVATE AND FRANCHISE UTILITY ROUTINGS AS UNDERSTOOD DURING DESIGN PHASES OF THE PROJECT. IT IS THE OWNER/DEVELOPER'S RESPONSIBILITY TO NEGOTIATE ALL CONTRACTS FOR SERVICE WITH EACH INDIVIDUAL UTILITY COMPANY AND TO PROVIDE THE ENGINEER WITH ANY DOCUMENTS THAT MAY AFFECT THE LAYOUT.
- CONTRACTOR SHALL NOTIFY THE UTILITY AUTHORITIES' INSPECTORS BEFORE CONNECTING TO ANY EXISTING LINE IN ACCORDANCE WITH LOCAL REQUIREMENTS.
- CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH THE SPECIFICATIONS OF THE LOCAL AUTHORITIES REGARDING THE MATERIALS AND INSTALLATION OF THE WATER AND SEWER LINES.
- NOT ALL EXISTING UNDERGROUND UTILITIES MAY BE SHOWN ON THIS PLAN. THE EXACT LOCATIONS AND NOTIFICATIONS OF THE PROPER AGENCY ARE THE RESPONSIBILITY OF THE CONTRACTOR PRIOR TO CONSTRUCTION.
- RESTRAINED JOINTS SHALL BE PROVIDED ON 4" AND LARGER WATER LINES AT ALL BENDS TEES AND FIRE HYDRANTS FOR A MINIMUM 2 JOINTS BOTH SIDES OF FITTING PER AWWA MINIMUM STANDARDS.
- CONTRACTOR SHALL REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING PLANS FOR PRECISE BUILDING DIMENSIONS AND EXACT BUILDING UTILITY ENTRANCE LOCATIONS. TERMINATE SERVICE PIPING 5' FROM BUILDING WALL UNTIL BUILDING PIPING SYSTEMS ARE INSTALLED. TERMINATE PIPING WITH VALVE AND CAP PLUG OR FLANGE AS REQUIRED FOR PIPING MATERIAL. MAKE CONNECTIONS TO BUILDING PIPING SYSTEMS WHEN THOSE SYSTEMS ARE INSTALLED.
- REFER TO PLUMBING AND/OR FIRE PROTECTION SHEETS FOR FIRE LINE LEAD-IN LOCATION AND DETAIL. CONTRACTOR SHALL UTILIZE AWWA AND FACTORY MUTUAL TEST AND CERTIFICATIONS FOR ALL UNDERGROUND FIRE PROTECTION LINES AS A MINIMUM. LOCAL OR STATE AUTHORITIES MAY REQUIRE MORE STRINGENT TESTING WHICH SHALL BE PROVIDED BY THE GC IF REQUIRED.
- FIRE LINE BACKFLOW PREVENTER (DOUBLE CHECK ASSEMBLY) SHALL BE LOCATED INSIDE THE BUILDING.
- ALL PIPING SHALL BE INSTALLED WITH A MINIMUM OF 30" OF COVER, UNLESS NOTED OTHERWISE. ALL TRENCHING, PIPE LAYING, AND BACKFILLING SHALL BE IN ACCORDANCE WITH FEDERAL OSHA REGULATIONS. UTILITY TRENCH DETAIL RE: 3/C802. STORM TRENCH DETAIL RE: 13/C801.
- REFER TO MECHANICAL, ELECTRICAL, AND PLUMBING FOR CONTINUATION OF UTILITIES AT BUILDING.
- THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF ALL CONDUITS (INCLUDING IRRIGATION SLEEVES) PRIOR TO PAVING WHETHER OR NOT SHOWN ON CIVIL PLANS. THE CONTRACTOR SHALL INSTALL ALL CONDUITS WITH A PULL STRING. ALL CONDUIT SHALL BE SCH. 40 PVC, UNLESS NOTED OTHERWISE.
- CONSTRUCT CLAY TRENCH PLUG THAT EXTENDS AT LEAST 5 FEET OUT FROM THE FACE OF THE BUILDING EXTERIOR. THE PLUG MATERIAL SHALL CONSIST OF CLAY COMPACTED AT A WATER CONTENT AT OR ABOVE THE SOIL'S OPTIMUM WATER CONTENT. THE CLAY FILL SHALL BE PLACED TO COMPLETELY SURROUND THE UTILITY LINE AND BE COMPACTED TO AT LEAST 95% STANDARD PROCTOR DENSITY.
- IF ANY EXISTING STRUCTURES TO REMAIN ARE DAMAGED DURING CONSTRUCTION IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR OR REPLACE THE EXISTING STRUCTURE AS NECESSARY.
- ALL STORM PIPE ENTERING CONCRETE STRUCTURES SHALL BE GROUTED WITH NON SHRINK GROUT TO ASSURE CONNECTION AT STRUCTURE IS WATER TIGHT.
- PROVIDE SLEEVE WITH LINK-SEAL (OR APPROVED EQUAL) AT GRADE BEAM PENETRATION LOCATIONS (RE: STRUCTURAL FOR DETAIL).
- CONTRACTOR SHALL REFER TO ELECTRICAL SITE PLAN OR PHOTOMETRIC PLAN (BY OTHERS) FOR ALL SITE LIGHTING CONSTRUCTION DETAILS, REQUIREMENTS, AND FINAL POLE LOCATIONS. POLE LOCATIONS ARE SHOWN ON THIS SHEET FOR REFERENCE ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAKE ALL NECESSARY ADJUSTMENTS TO POLE LOCATIONS AS NECESSARY TO AVOID OBSTRUCTIONS (I.E., UNDERGROUND UTILITIES, SIDEWALKS, ETC.). CONTRACTOR SHALL POT HOLE EACH LOCATION WHERE A NEW LIGHT POLE IS TO BE PLACED PRIOR TO CONSTRUCTION TO VERIFY THERE ARE NO CONFLICTS WITH EXISTING UTILITIES. IF DAMAGES OCCUR TO EXISTING UTILITIES THEY WILL REPLACE OR REPAIR AT THEIR OWN EXPENSE. POLE LOCATIONS MAY NOT BE ADJUSTED WITHOUT PRIOR APPROVAL FROM THE ENGINEERS SINCE A CHANGE IN LOCATION CAN IMPACT THE INTENDED PHOTOMETRIC DESIGN.
- CONTRACTOR SHALL COORDINATE THE CONSTRUCTION OF PROPOSED SIGN(S) AND INSTALLATION OF SECURITY CAMERAS WITH OWNER'S CONSTRUCTION MANAGER. COORDINATE WITH ELECTRICAL SITE PLAN TO PROVIDE ALL CONDUIT NEEDED FOR DATA AND/OR POWER TO SITE SIGN(S), SECURITY CAMERAS, AND LIGHT POLES.
- UTILITY TRENCH DETAIL REFER TO MEP FOR CONTINUATION OF UTILITIES AT BUILDING.
- ALL DIMENSIONS TO THE BACK OF CURB UNLESS NOTED OTHERWISE.

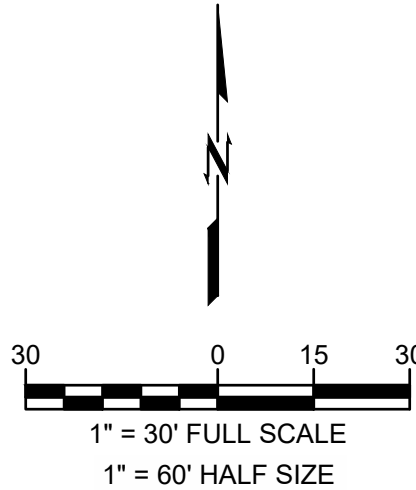
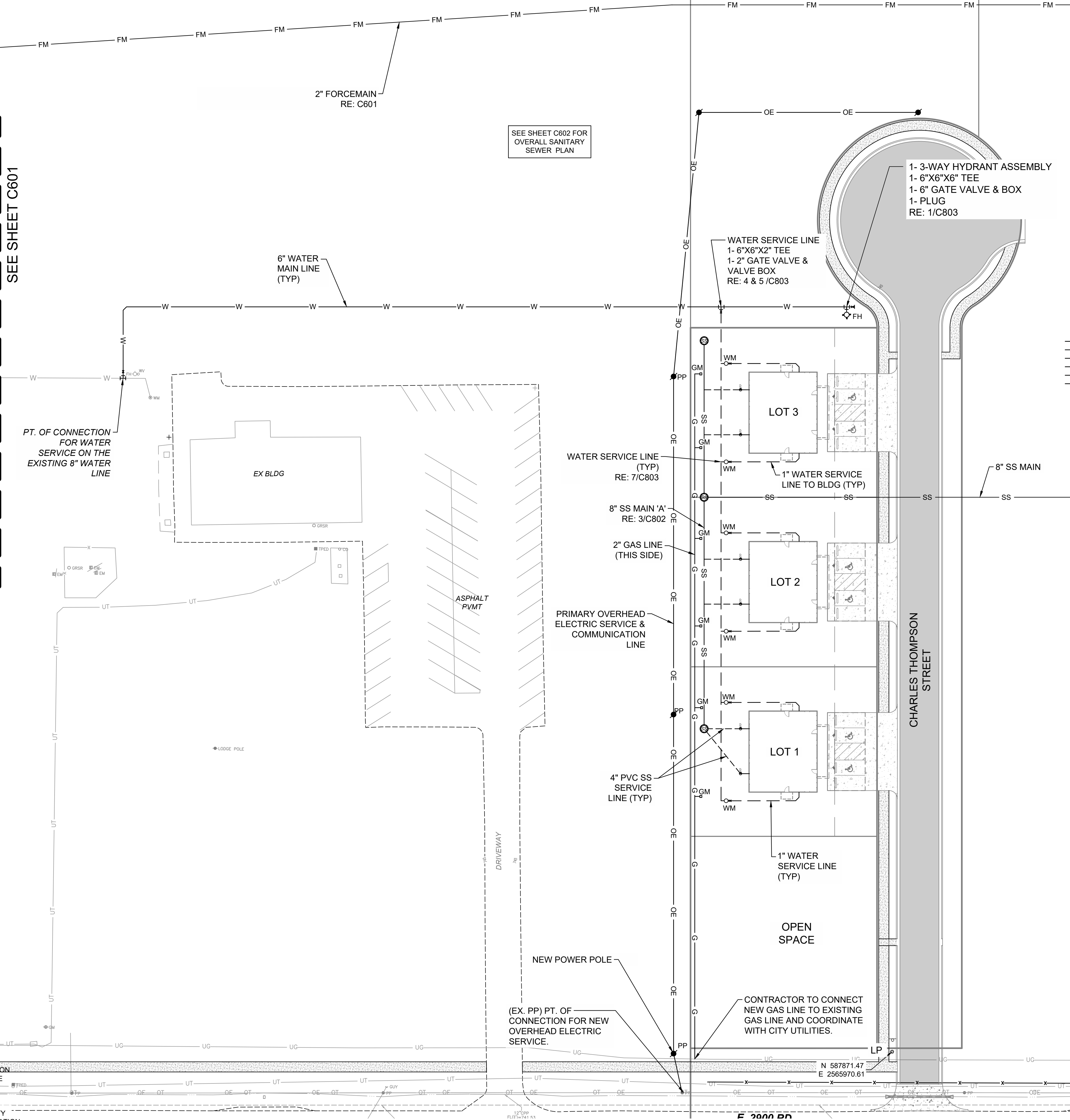


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CAUTION
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PT. OF CONNECTION
FOR WATER
SERVICE ON THE
EXISTING 8" WATER
LINE



LEGEND

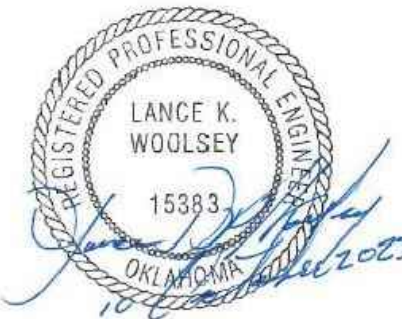
- ASPHALT PAVEMENT RE: 10/C800
- CONCRETE PAVEMENT RE: 16/C800
- CONCRETE SIDEWALK RE: 3/C800

- SSMH SANITARY SEWER MANHOLE RE: C802
- PP NEW POWER POLE
- SDMH STORM MANHOLE RE: C801
- U/E UTILITY EASEMENT

- W WATER LINE
- SS SANITARY SEWER SERVICE
- G NATURAL GAS
- OE OVERHEAD ELECTRIC
- UE UNDERGROUND ELECTRIC BLDG LINE
- LP LIGHT POLE
- PB ELECTRIC BOX
- FH FIRE HYDRANT RE: 1/C803
- WM WATER METER
- PP POWER POLE
- GM GAS METER

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CHEROKEE NATION
OCHELATA OK
OCHELATA, OKLAHOMA

REV	DESCRIPTION	DATE
1	100% CD	09/15/23
10/10/23		
2340348		
UTILITY MAINS PLAN		
SHEET NO.		
C600		

Z:\2340348 CN pre-con Site 7, Ochelata\DWG\PRODUCTION\2340348 utilityplan.dwg PLOT:11/10/2023 2:43:14 PM ORIG SIZE:24"X36"



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LEGEND	
	ASPHALT PAVEMENT RE: 10/C800
	CONCRETE PAVEMENT RE: 16/C801
	CONCRETE SIDEWALK RE: 3/C800
	WATER LINE
	SANITARY SEWER SERVICE
	NATURAL GAS
	OVERHEAD ELECTRIC
	UNDERGROUND ELECTRIC
	EASEMENT
	LIGHT POLE
	ELECTRIC BOX RE: C600
	FIRE HYDRANT RE: 1/C803
	WATER METER

EXISTING SSMH
CONTRACTOR TO VERIFY
LOCATION AND COORDINATE
WITH UTILITY COMPANY
N 588361.74
E 2564349.28

PT. OF CONNECTION
FOR NEW SS
FORCEMAIN.

EXISTING CONCRETE
PAVEMENT

EXISTING 8"
WATERLINE

EDGE OF EXISTING PAVEMENT

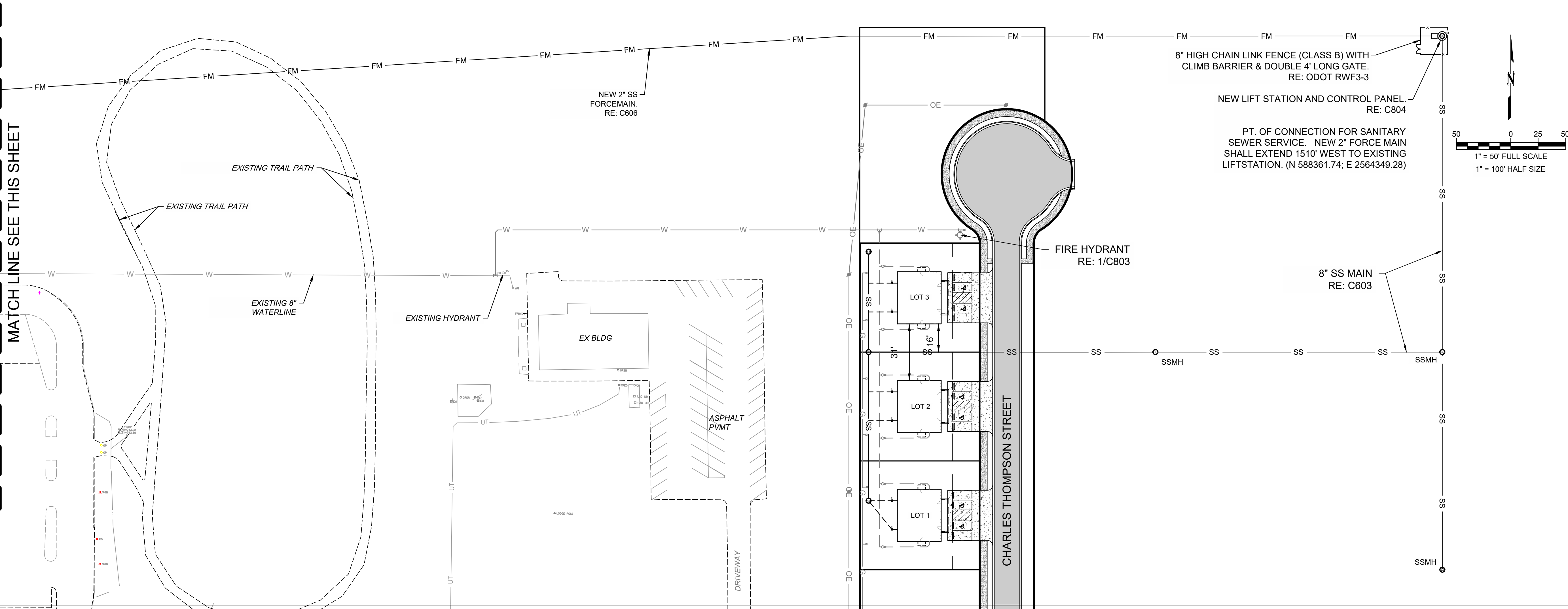
EXISTING 8"
WATERLINE

LEGEND	
	WATER LINE
	SANITARY SEWER SERVICE
	NATURAL GAS
	OVERHEAD ELECTRIC
	UNDERGROUND ELECTRIC
	PIPE UNDERDRAIN EASEMENT
	LIGHT POLE
	ELECTRIC BOX
	FIRE HYDRANT
	WATER METER

SSMH SANITARY SEWER MANHOLE RE: C802
PP NEW POWER POLE
SDMH STORM MANHOLE RE: C801
U/E UTILITY EASEMENT

MATCH LINE SEE THIS SHEET

MATCH LINE SEE THIS SHEET



8" HIGH CHAIN LINK FENCE (CLASS B) WITH
CLIMB BARRIER & DOUBLE 4' LONG GATE.
RE: ODOT RWF3-3

NEW LIFT STATION AND CONTROL PANEL.
RE: C804

PT. OF CONNECTION FOR SANITARY
SEWER SERVICE. NEW 2" FORCE MAIN
SHALL EXTEND 1510' WEST TO EXISTING
LIFTSTATION. (N 588361.74; E 2564349.28)

FIRE HYDRANT
RE: 1/C803

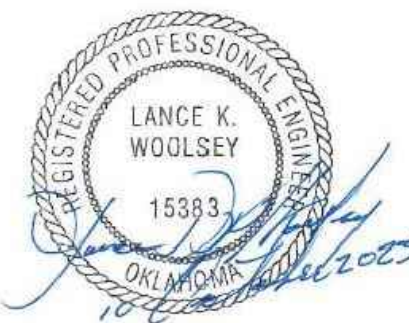
8" SS MAIN
RE: C603

50 0 25 50
1" = 50' FULL SCALE
1" = 100' HALF SIZE

30 0 15 30
1" = 30' FULL SCALE
1" = 60' HALF SIZE



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CHEROKEE NATION
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OCHELATA, OKLAHOMA

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1	100% CD	09/15/23
DATE 10/10/23		
PROJECT NO. 2340348		
SHEET NAME		
OVERALL UTILITY MAINS PLAN		
SHEET NO. C601		

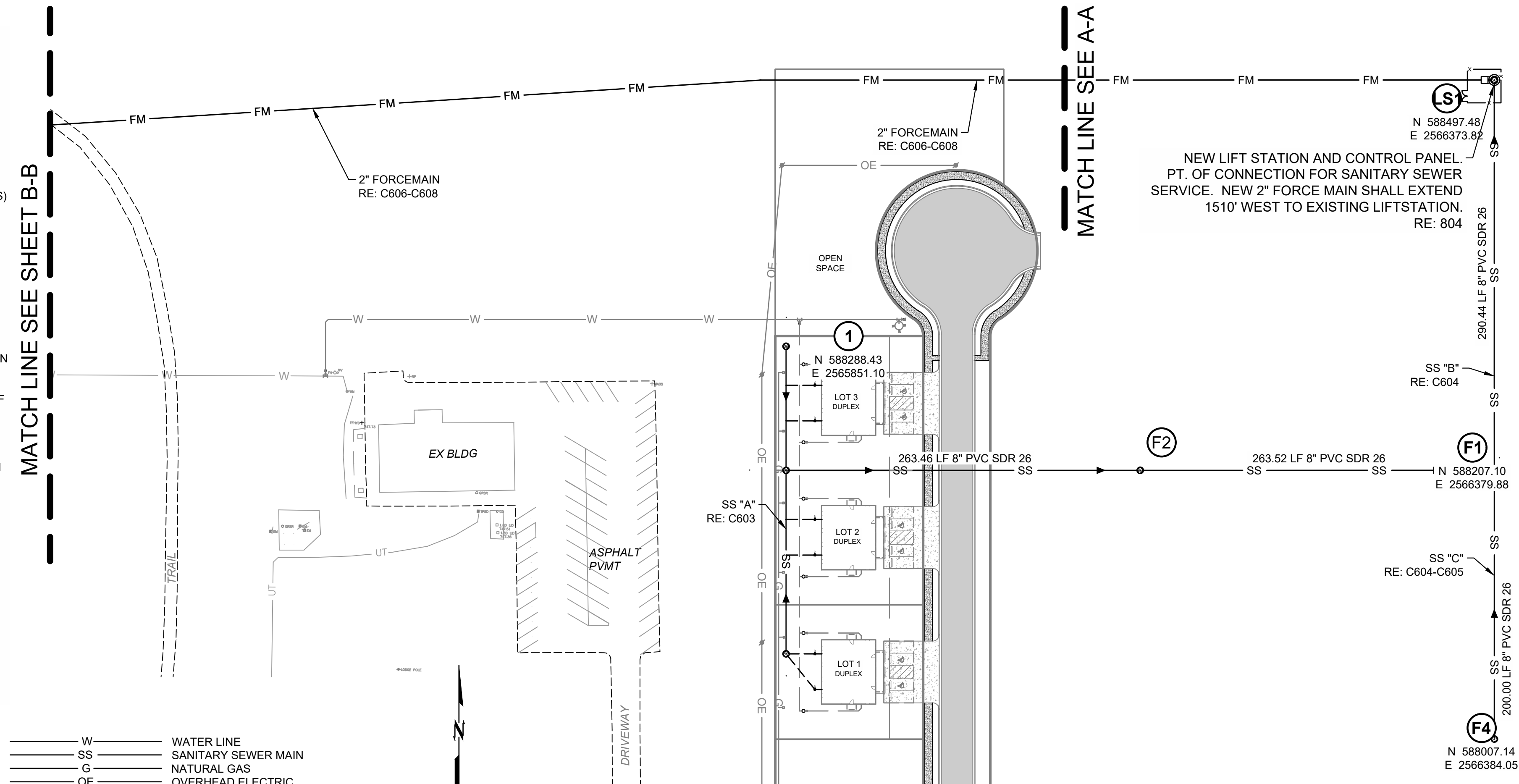
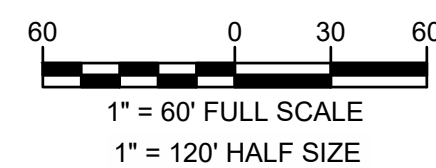
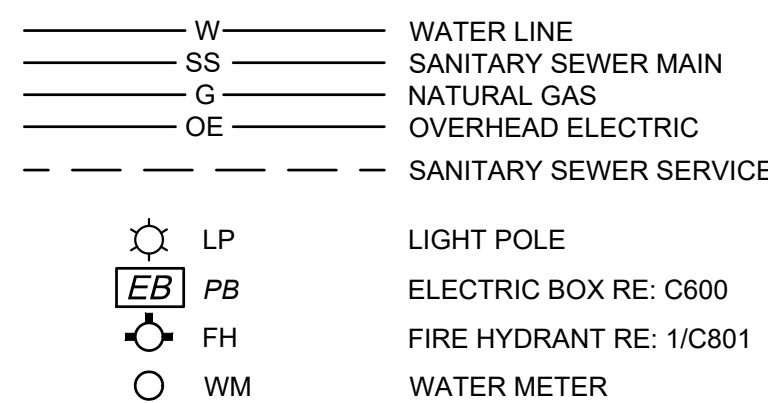
1. PRIOR TO CONSTRUCTION, LOCATION OF SITE UTILITIES SHALL BE VERIFIED BY CONTRACTOR WITH THE PROPER UTILITY COMPANY PROVIDING SERVICE. SERVICE LINES SHOWN FOR COORDINATION AND REFERENCE ONLY. CONTRACTOR SHALL COORDINATE WITH ALL SERVICE PROVIDERS (TELECOMMUNICATIONS, ELECTRIC, GAS, ETC.) PRIOR TO INSTALLING SERVICE LINES OR APPURTENANCES. CONTRACTOR IS TO COORDINATE WITH ALL UTILITY COMPANIES FOR INSTALLATION REQUIREMENTS AND SPECIFICATIONS.
2. THIS PLAN DEPICTS THE INTENT OF PRIVATE AND FRANCHISE UTILITY ROUTINGS AS UNDERSTOOD DURING DESIGN PHASES OF THE PROJECT. IT IS THE OWNER/ENGINEER'S RESPONSIBILITY TO NEGOTIATE ALL CONTRACTS FOR SERVICE WITH EACH INDIVIDUAL UTILITY COMPANY AND TO PROVIDE THE ENGINEER WITH ANY DOCUMENTS THAT MAY AFFECT THE LAYOUT.
3. CONTRACTOR SHALL NOTIFY THE UTILITY AUTHORITIES' INSPECTORS BEFORE CONNECTING TO ANY EXISTING LINE IN ACCORDANCE WITH LOCAL REQUIREMENTS.
4. CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH THE SPECIFICATIONS OF THE LOCAL AUTHORITIES REGARDING THE MATERIALS AND INSTALLATION OF THE WATER AND SEWER LINES.
5. NOT ALL EXISTING UNDERGROUND UTILITIES MAY BE SHOWN ON THIS PLAN. THE EXACT LOCATIONS AND NOTIFICATION OF THE PROPERTY AGENCY ARE THE RESPONSIBILITY OF THE CONTRACTOR PRIOR TO CONSTRUCTION.
6. RESTRAINED JOINTS SHALL BE PROVIDED ON 4" AND LARGER WATER LINES AT ALL BENDS TEES AND FIRE HYDRANTS FOR A MINIMUM 2 JOINTS BOTH SIDES OF FITTING PER AWWA MINIMUM STANDARDS.
7. CONTRACTOR SHALL REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING PLANS FOR PRECISE BUILDING DIMENSIONS AND EXACT BUILDING UTILITY ENTRANCE LOCATIONS. TERMINATE SERVICE PIPING 5' FROM BUILDING WALL UNTIL BUILDING

- PIPING SYSTEMS ARE INSTALLED. TERMINATE PIPING WITH VALVE AND CAP PLUG OR FLANGE AS REQUIRED FOR PIPING MATERIAL. MAKE CONNECTIONS TO BUILDING PIPING SYSTEMS WHEN THOSE SYSTEMS ARE INSTALLED.
8. REFER TO PLUMBING AND/OR FIRE PROTECTION SHEETS FOR FIRE LINE LEAD-IN LOCATION AND DETAIL. CONTRACTOR SHALL UTILIZE AWWA AND FACTORY MUTUAL TEST AND CERTIFICATIONS FOR ALL UNDERGROUND FIRE PROTECTION LINES AS A MINIMUM. LOCAL OR STATE AUTHORITIES MAY REQUIRE MORE STRINGENT TESTING WHICH SHALL BE PROVIDED BY THE GC IF REQUIRED.
9. FIRE LINE BACKFLOW PREVENTER (DOUBLE CHECK ASSEMBLY) SHALL BE LOCATED INSIDE THE BUILDING.
10. ALL PIPING SHALL BE INSTALLED WITH A MINIMUM OF 30" OF COVER, UNLESS NOTED OTHERWISE. ALL TRENCHING, PIPE LAYING, AND BACKFILLING SHALL BE IN ACCORDANCE WITH FEDERAL OSHA REGULATIONS. UTILITY TRENCH DETAIL RE: 2/C801. STORM TRENCH DETAIL RE: 7/C800.
11. REFER TO MECHANICAL, ELECTRICAL, AND PLUMBING FOR CONTINUATION OF UTILITIES AT BUILDING.
12. THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF ALL CONDUITS (INCLUDING IRRIGATION SLEEVES) PRIOR TO PAVING. WHETHER OR NOT SHOWN ON CIVIL PLANS, THE CONTRACTOR SHALL INSTALL ALL CONDUITS WITH A PULL STRING. ALL CONDUIT SHALL BE SCH. 40 PVC, UNLESS NOTED OTHERWISE.
13. CONSTRUCT CLAY TRENCH PLUG THAT EXTENDS AT LEAST 5 FEET OUT FROM THE FACE OF THE BUILDING EXTERIOR. THE PLUG MATERIAL SHALL CONSIST OF CLAY COMPACTED AT A WATER CONTENT AT OR ABOVE THE SOIL'S OPTIMUM WATER CONTENT. THE CLAY FILL SHALL BE PLACED TO COMPLETELY SURROUND THE UTILITY LINE AND BE COMPACTED TO AT LEAST 95% STANDARD PROCTOR DENSITY.
14. IF ANY EXISTING STRUCTURES TO REMAIN ARE DAMAGED DURING CONSTRUCTION IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR OR REPLACE THE EXISTING STRUCTURE AS NECESSARY.

SSMH	SANITARY SEWER MANHOLE RE: C800
PP	NEW POWER POLE RE: C800
SDMH	STORM MANHOLE RE: C800
U/E	UTILITY EASEMENT

15. ALL STORM PIPE ENTERING CONCRETE STRUCTURES SHALL BE GROUTED WITH NON SHRINK GROUT TO ASSURE CONNECTION AT STRUCTURE IS WATER TIGHT.
16. PROVIDE SLEEVE WITH LINK-SEAL (OR APPROVED EQUAL) AT GRADE BEAM PENETRATION LOCATIONS (RE: STRUCTURAL FOR DETAIL).
17. CONTRACTOR SHALL REFER TO ELECTRICAL SITE PLAN OR PHOTOMETRIC PLAN (BY OTHERS) FOR ALL SITE LIGHTING CONSTRUCTION DETAILS, REQUIREMENTS, AND FINAL POLE LOCATIONS. POLE LOCATIONS ARE SHOWN ON THIS SHEET FOR
18. REFERENCE ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAKE ALL NECESSARY ADJUSTMENTS TO POLE LOCATIONS AS NECESSARY TO AVOID OBSTRUCTIONS (I.E.: UNDERGROUND UTILITIES, SIDEWALKS, ETC...). CONTRACTOR SHALL NOT HOLE EXCAVATION WHERE A NEW LIGHT POLE IS TO BE PLACED PRIOR TO CONSTRUCTION TO VERIFY THERE ARE NO CONFLICTS WITH EXISTING UTILITIES. IF DAMAGES OCCUR TO EXISTING UTILITIES THEY WILL REPLACE OR REPAIR AT THEIR OWN EXPENSE. POLE LOCATIONS MAY NOT BE ADJUSTED WITHOUT PRIOR APPROVAL FROM THE ENGINEERS SINCE A CHANGE IN LOCATION CAN IMPACT THE INTENDED PHOTOMETRIC DESIGN.
19. CONTRACTOR SHALL COORDINATE THE CONSTRUCTION OF PROPOSED SIGN(S) AND INSTALLATION OF SECURITY CAMERAS WITH OWNER'S CONSTRUCTION MANAGER. COORDINATE WITH ELECTRICAL SITE PLAN TO PROVIDE ALL CONDUIT NEEDED FOR DATA AND/OR POWER TO SITE SIGN(S), SECURITY CAMERAS, AND LIGHT POLES.
20. UTILITY TRENCH DETAIL REFER TO MEP FOR CONTINUATION OF UTILITIES AT BUILDING.
21. ALL DIMENSIONS TO THE BACK OF CURB UNLESS NOTED OTHERWISE.

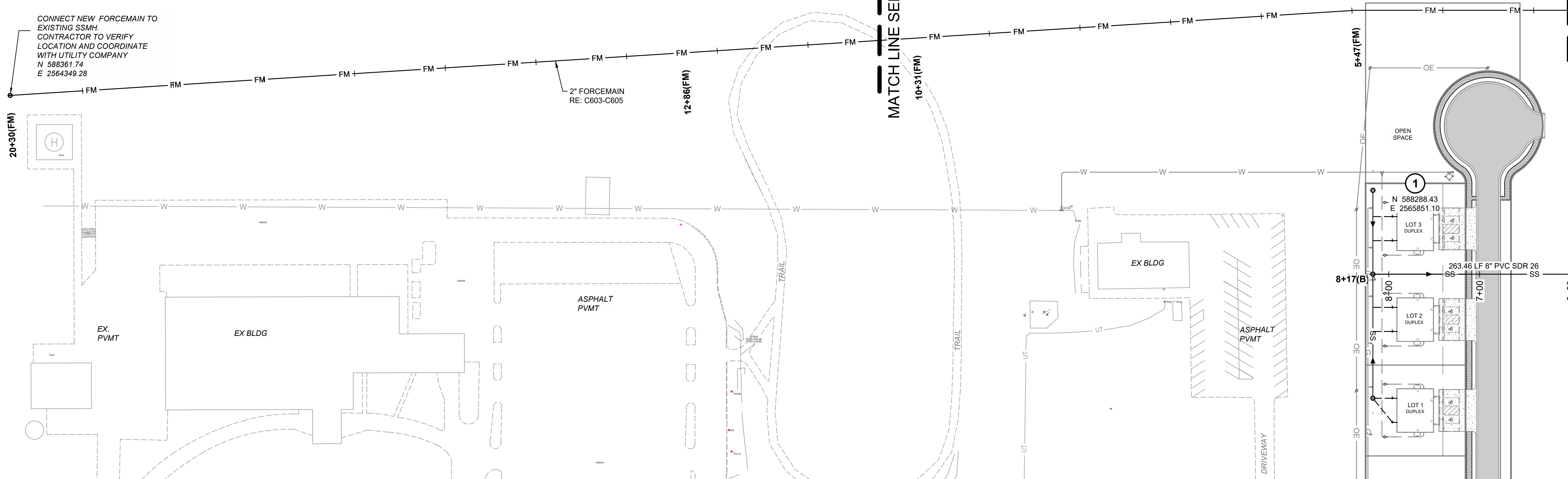
	ASPHALT PAVEMENT RE: 10/C800
	CONCRETE PAVEMENT RE: 16/C801
	CONCRETE SIDEWALK RE: 3/C800



MATCH LINE SEE A-A

NEW LIFT STATION AND CONTROL PANEL.
PT. OF CONNECTION FOR SANITARY SEWER
SERVICE. NEW 2" FORCE MAIN SHALL EXTEND
1510' WEST TO EXISTING LIFTSTATION.
RE: 804

RE: 804



MATCH LINE SEE A-A

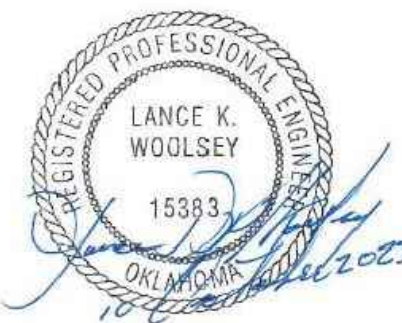


Know what's **below**.
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THE CONTRACTOR IS SPECIFICALLY CAUTIONED THE LOCATION AND ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS ARE BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE LOCAL UTILITY LOCATION CENTER AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATIONS OF THE UTILITIES.



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CHEROKEE NATION
OCHELATA OK

OCHELATA, OKLAHOMA

REV	DESCRIPTION	DATE
1	100% CD	09/15/23

DATE

10/10/23

PROJECT NO.

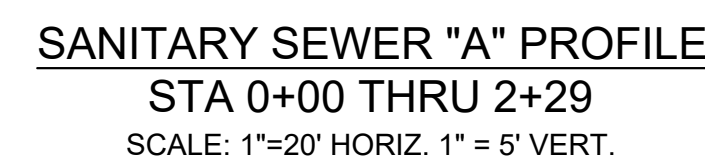
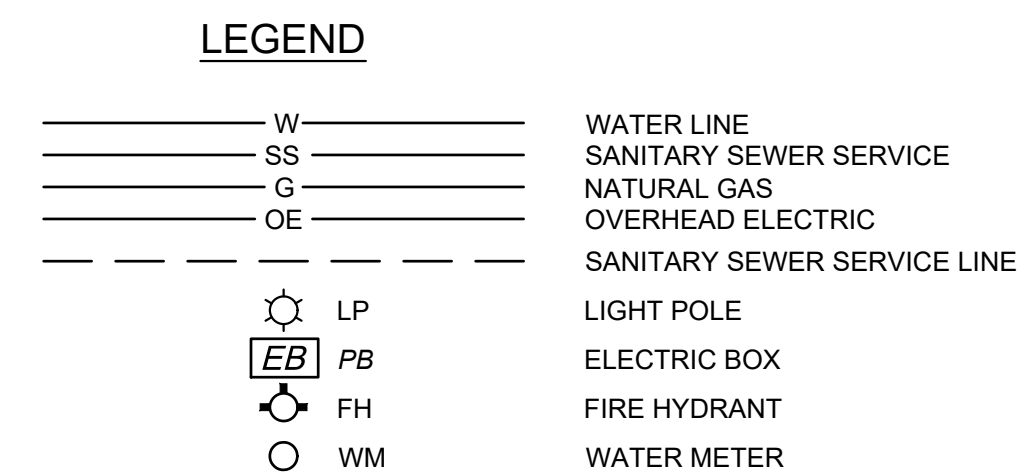
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SHEET NAME

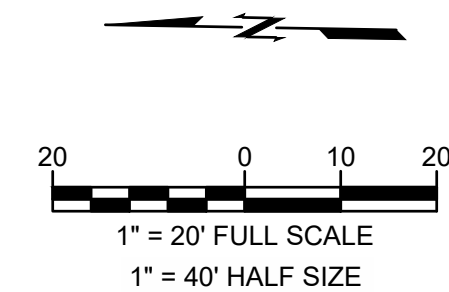
OVERALL
SANITARY
SEWER PLAN

SHEET NO.

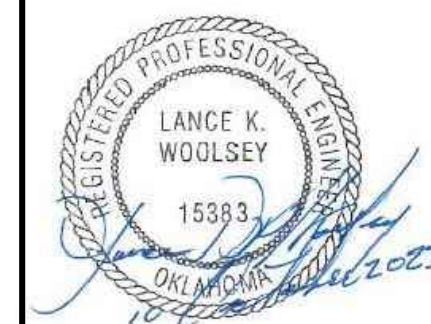
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THE CONTRACTOR IS SPECIFICALLY CAUTIONED THE LOCATION AND ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS ARE BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE LOCAL UTILITY LOCATION CENTER AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATIONS OF THE UTILITIES.



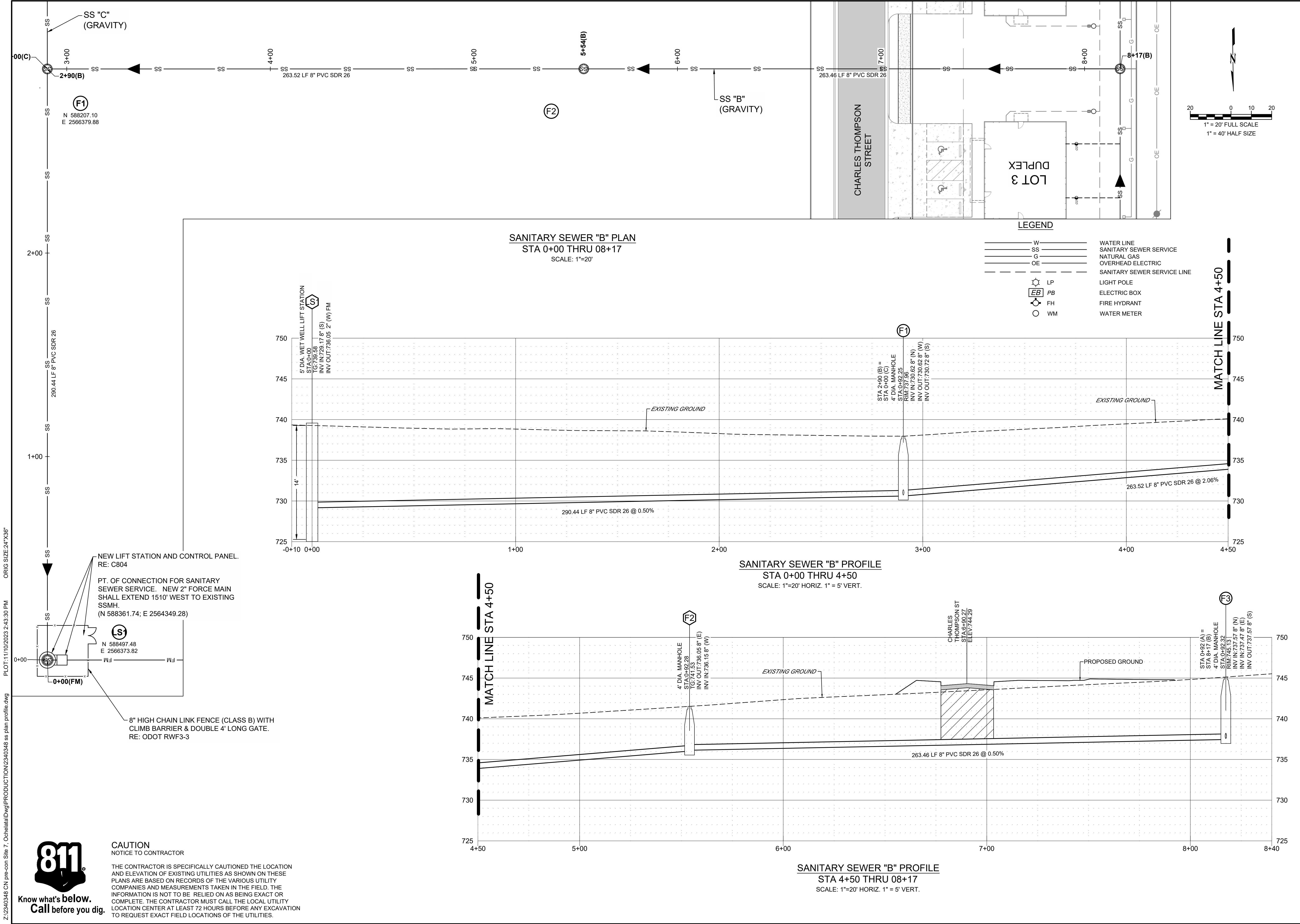
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CHEROKEE NATION
OCHELATA OK

OCHELATA, OKLAHOMA

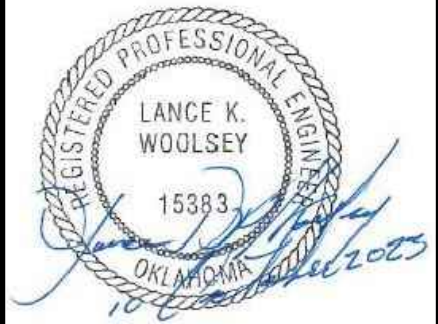
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CHEROKEE NATION
OCHELATA OK

OCHELATA, OKLAHOMA

REV	DESCRIPTION	DATE
1	100% CD	09/15/23

DATE10/10/23

PROJECT NO.2340348

SHEET NAME

SANITARY
SEWER PLAN &
PROFILE

SHEET NO.

C604

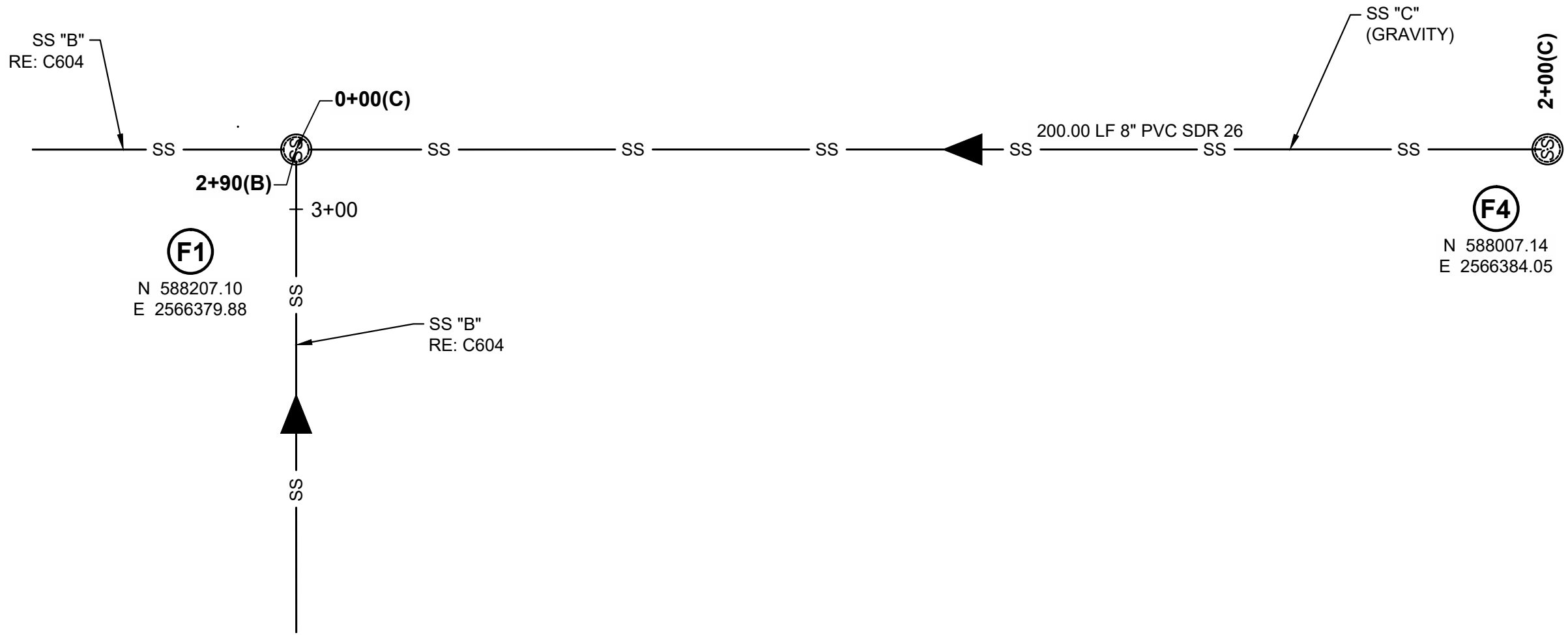
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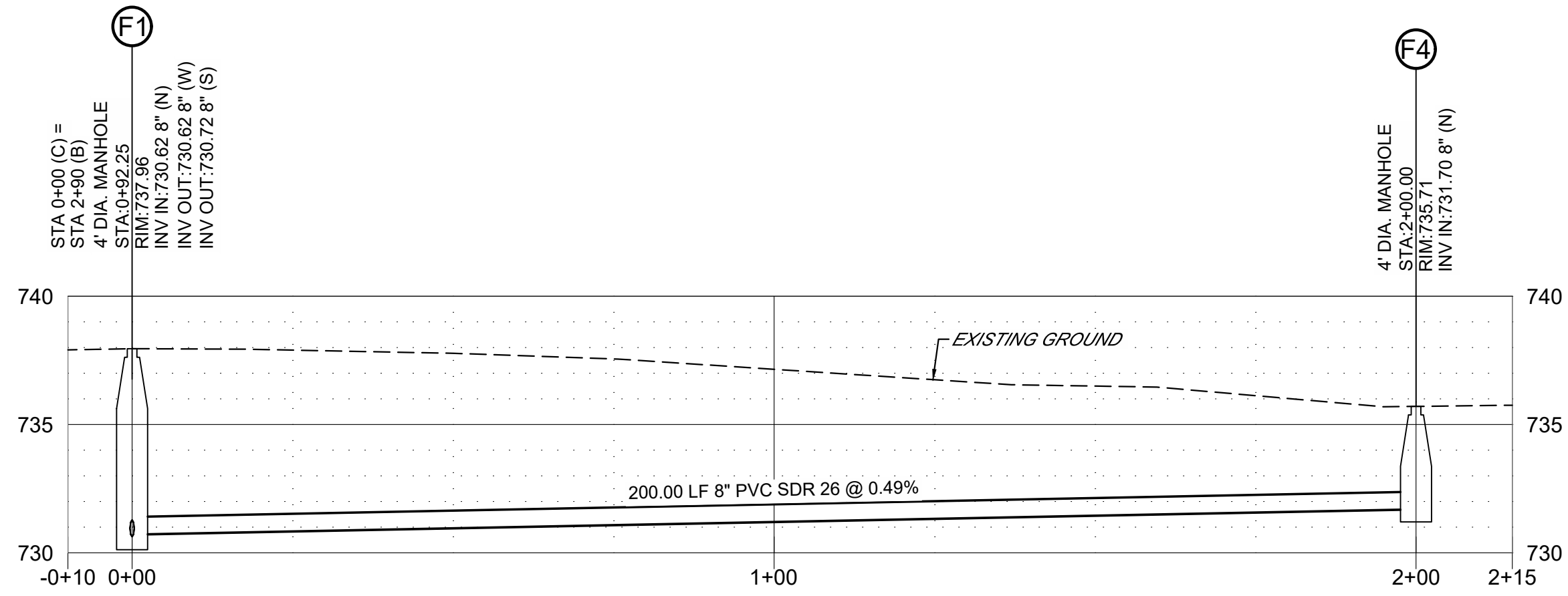
Know what's below.
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CAUTION
NOTICE TO CONTRACTOR

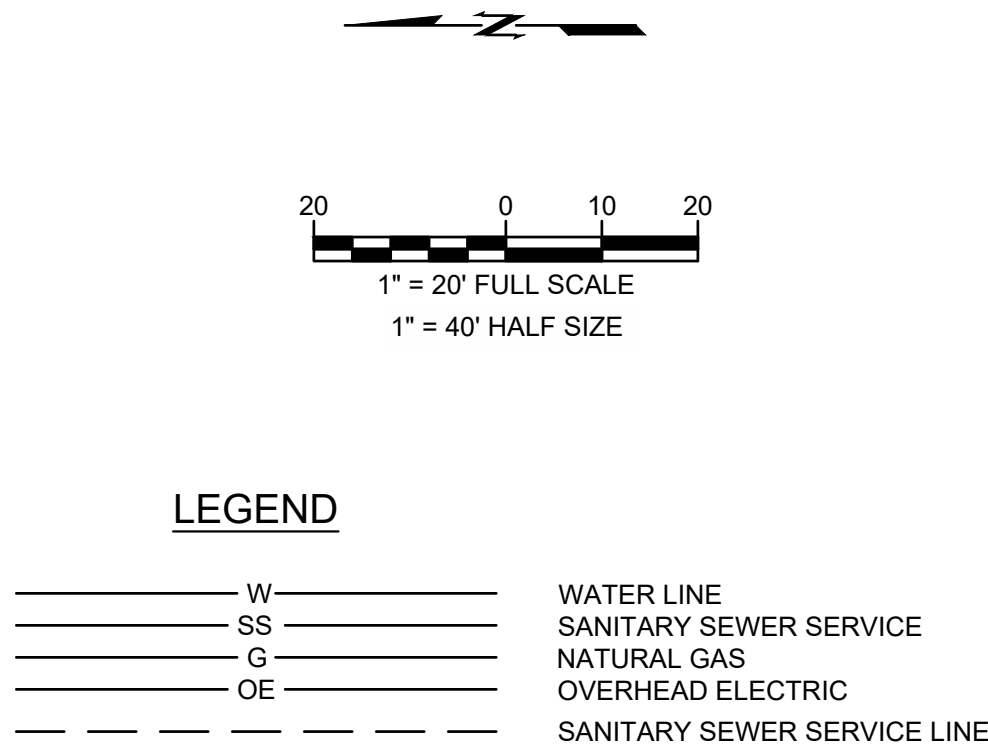
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SANITARY SEWER "C" PLAN
STA 0+00 THRU 05+50
SCALE: 1"=20'



SANITARY SEWER "C" PROFILE
STA 0+00 THRU 05+50
SCALE: 1"=20' HORIZ. 1" = 5' VERT.



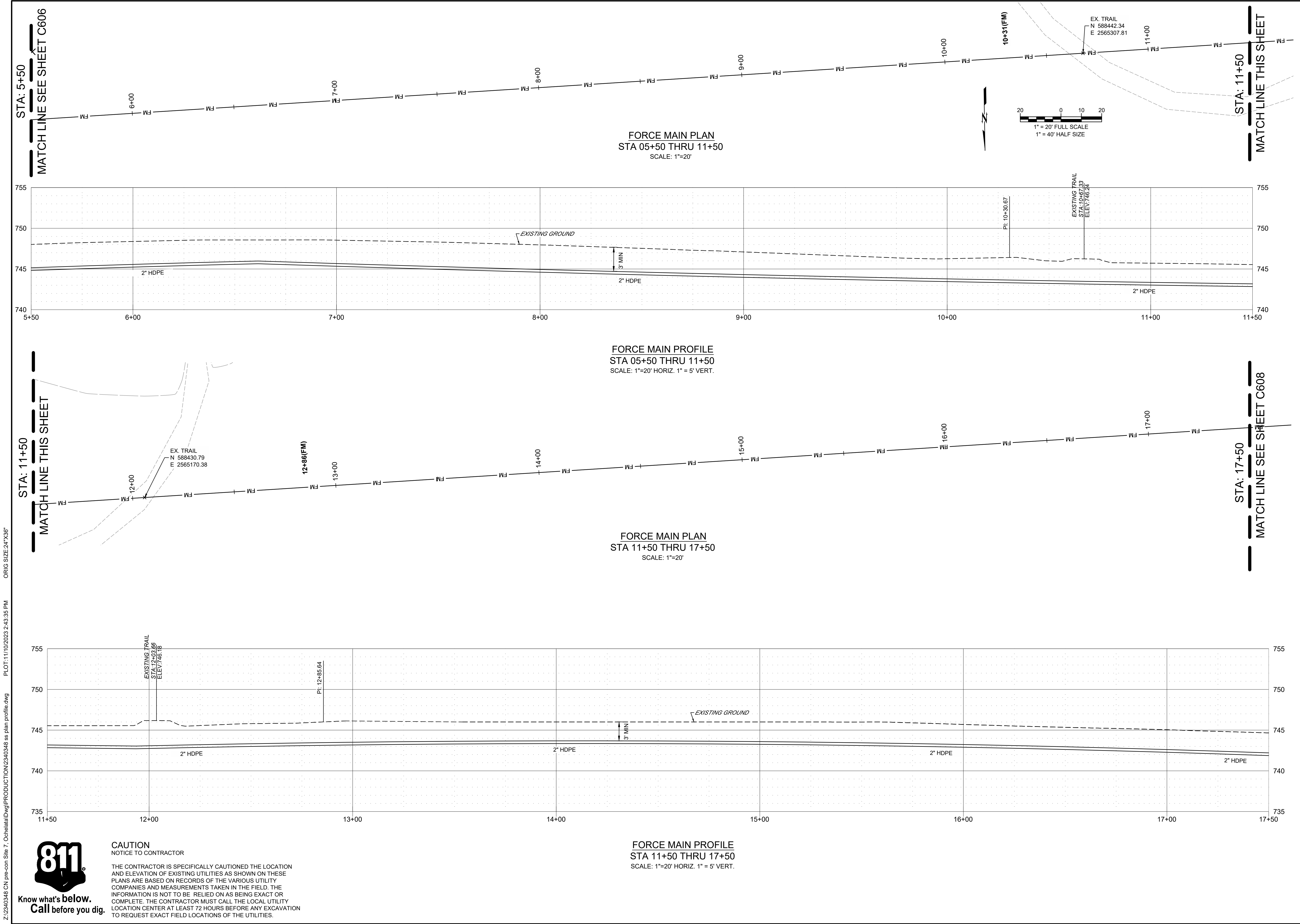
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OCHELATA, OKLAHOMA

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PROJECT NO. 2340348
SHEET NAME
SANITARY
SEWER PLAN &
PROFILE
SHEET NO.
C605



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FORCE MAIN PROFILE

STA 11+50 THRU 17+50

SCALE: 1"=20' HORIZ. 1" = 5' VERT.

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REGISTERED PROFESSIONAL ENGINEER

LANCE K. WOOLSEY

15393

OKLAHOMA

09/15/2023

CHEROKEE NATION

OCHELATA OK

OCHELATA, OKLAHOMA

REV	DESCRIPTION	DATE
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10/10/23

PROJECT NO.

2340348

SHEET NAME

FORCE MAIN PLAN & PROFILE

SHEET NO.

C607

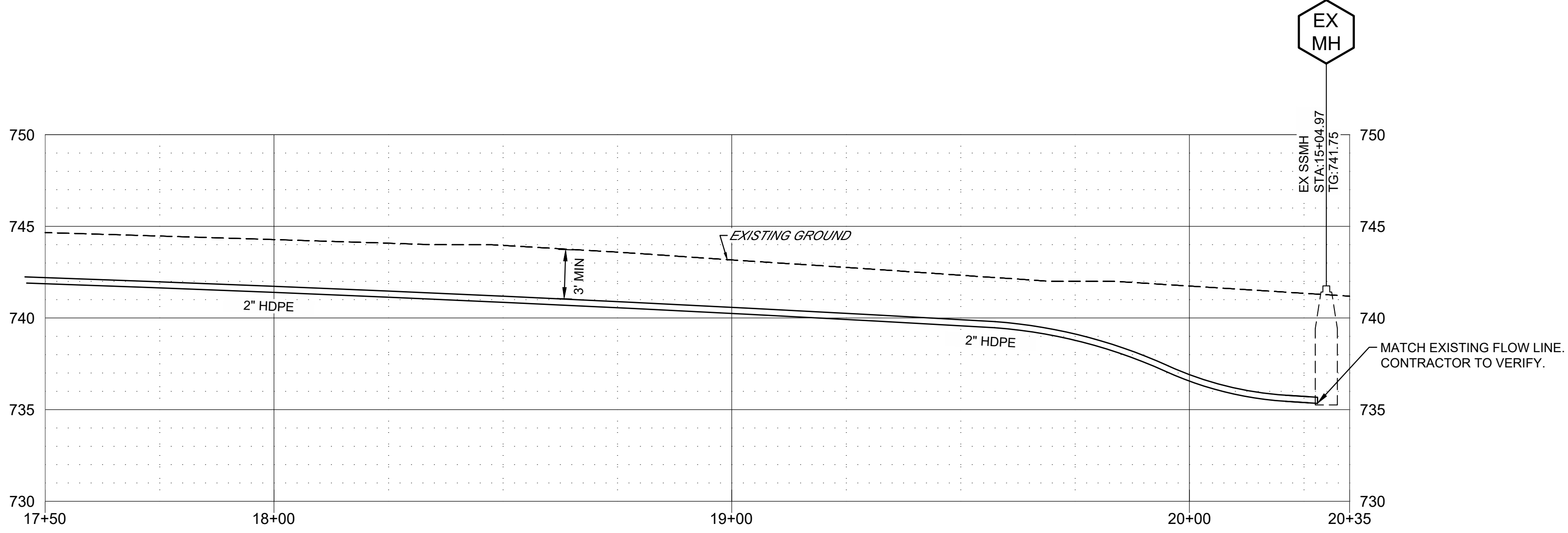
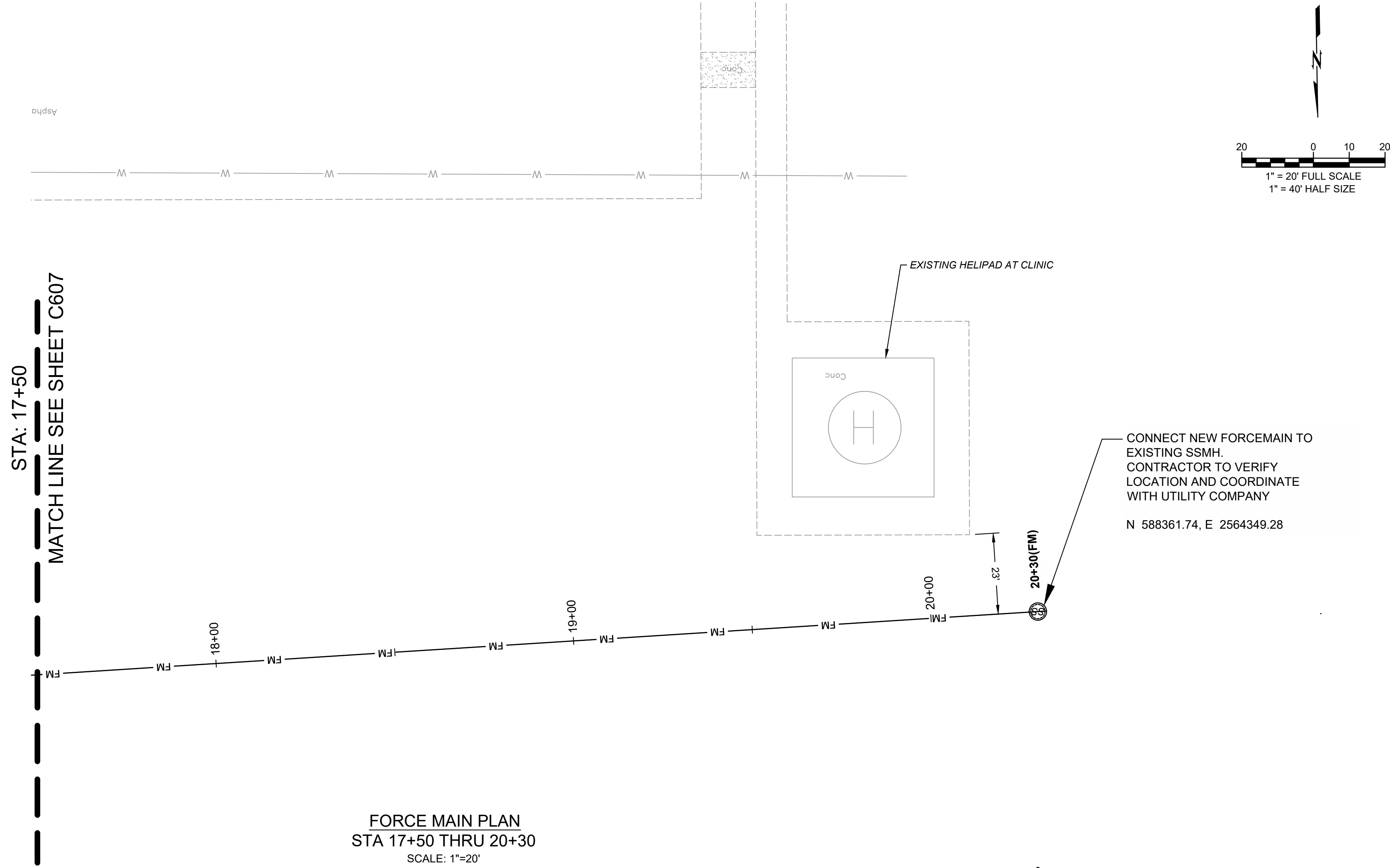
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CAUTION
NOTICE TO CONTRACTOR

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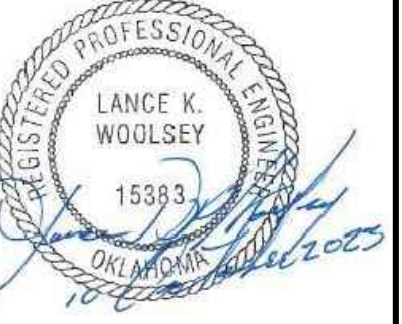


FORCE MAIN PLAN
STA 17+50 THRU 20+30
SCALE: 1"=20'

FORCE MAIN PROFILE
STA 17+50 THRU 20+30
SCALE: 1"=20' HORIZ. 1" = 5' VERT.

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CHEROKEE NATION
OCHELATA OK

OCHELATA, OKLAHOMA

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PROJECT NO. 2340348
SHEET NAME

FORCE MAIN
PLAN & PROFILE
SHEET NO.
C608

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OCHELATA, OKLAHOMA

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DATE 10/10/23
PROJECT NO. 2340348
SHEET NAME
GEOMETRIC PLAN
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C700

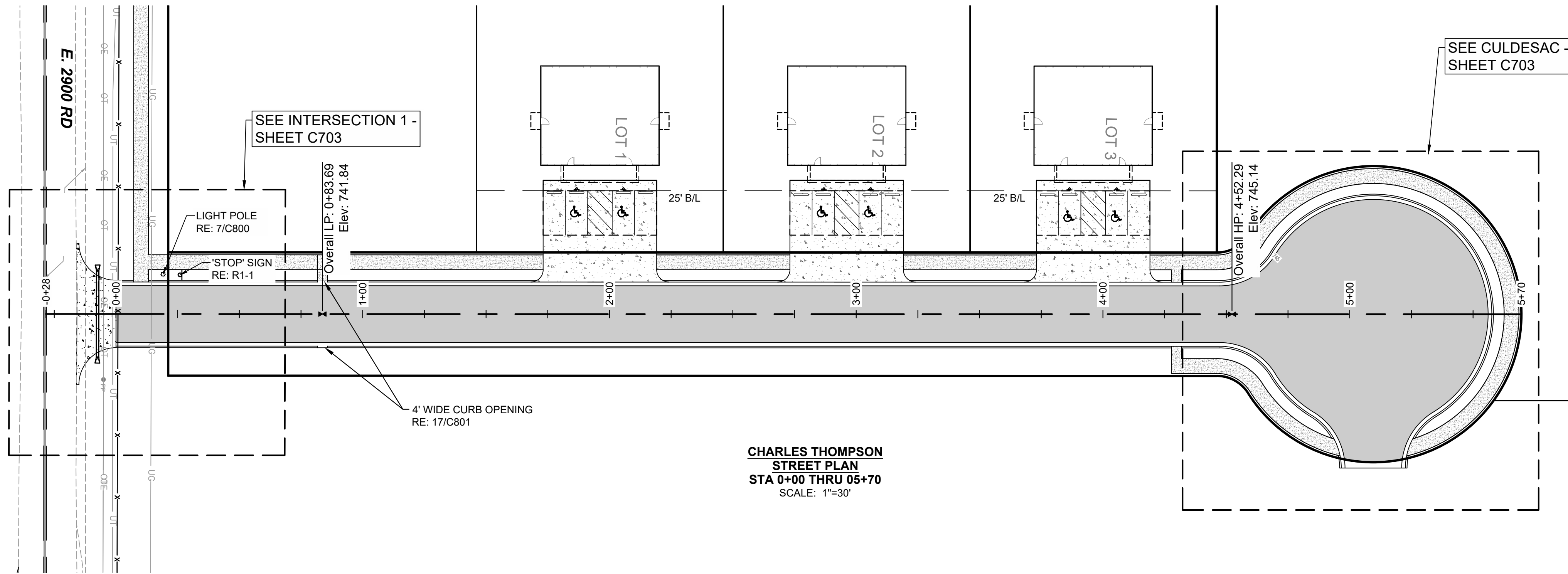
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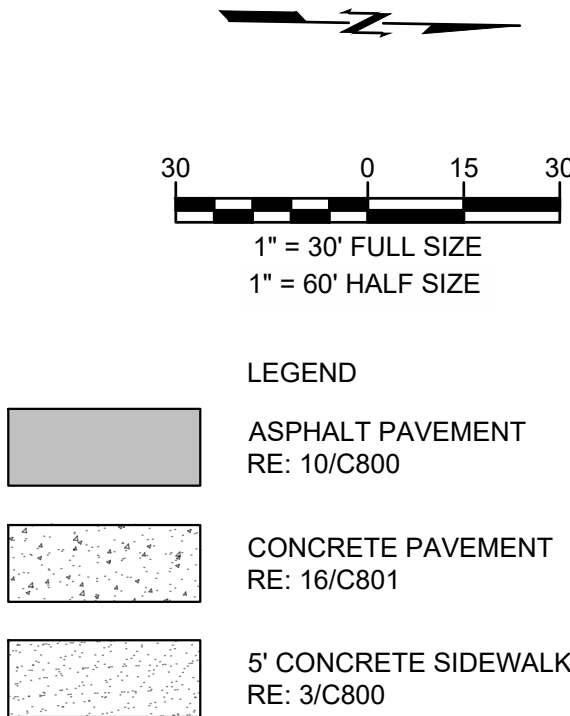
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CAUTION
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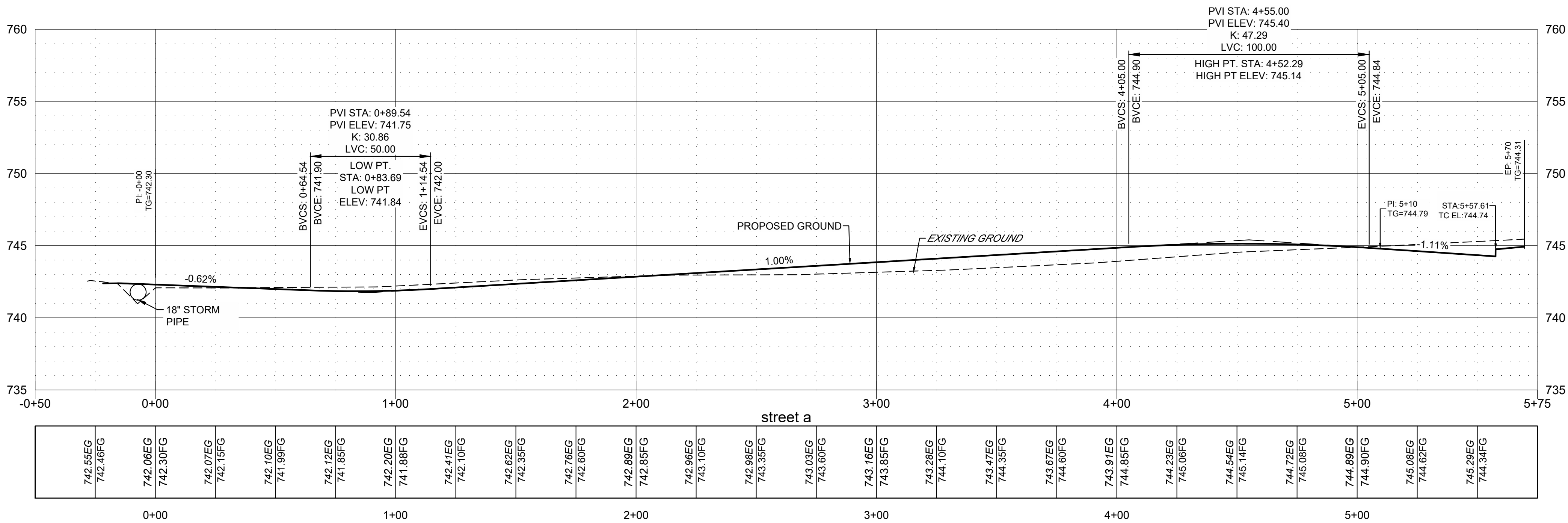


CHARLES THOMPSON
STREET PLAN
STA 0+00 THRU 05+70
SCALE: 1"=30'

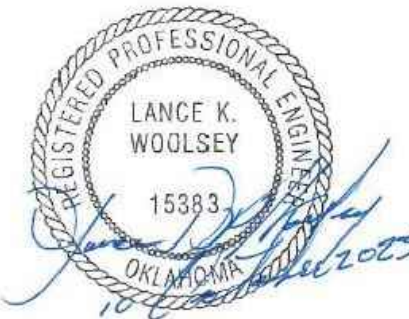


BENCHMARKS
BENCHMARKS PER TOPOGRAPHIC SURVEY COMPLETED BY BENNETT SURVEYING, INC., DATED 07.10.2023.

BENCHMARK
1/2" IRON PIN
ELEV=732.40
N=587869.5210
E=2566591.5420



CHARLES THOMPSON STREET
PROFILE
STA 0+00 THRU 05+70
SCALE: 1"=30' HORIZ. 1"=5' VERT.



CHEROKEE NATION
OCHELATA OK
OCHELATA, OKLAHOMA

REV	DESCRIPTION	DATE
1	100% CD	09/15/23

DATE 10/10/23
PROJECT NO. 2340348
SHEET NAME
PAVING PLAN &
PROFILE
SHEET NO.
C701

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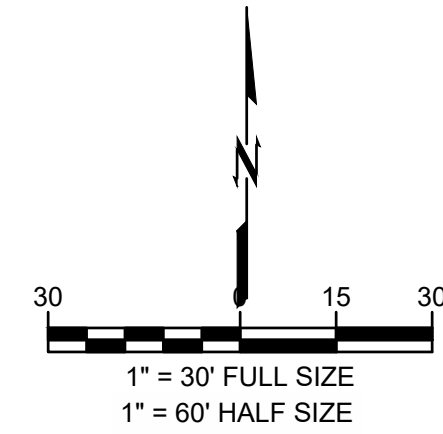
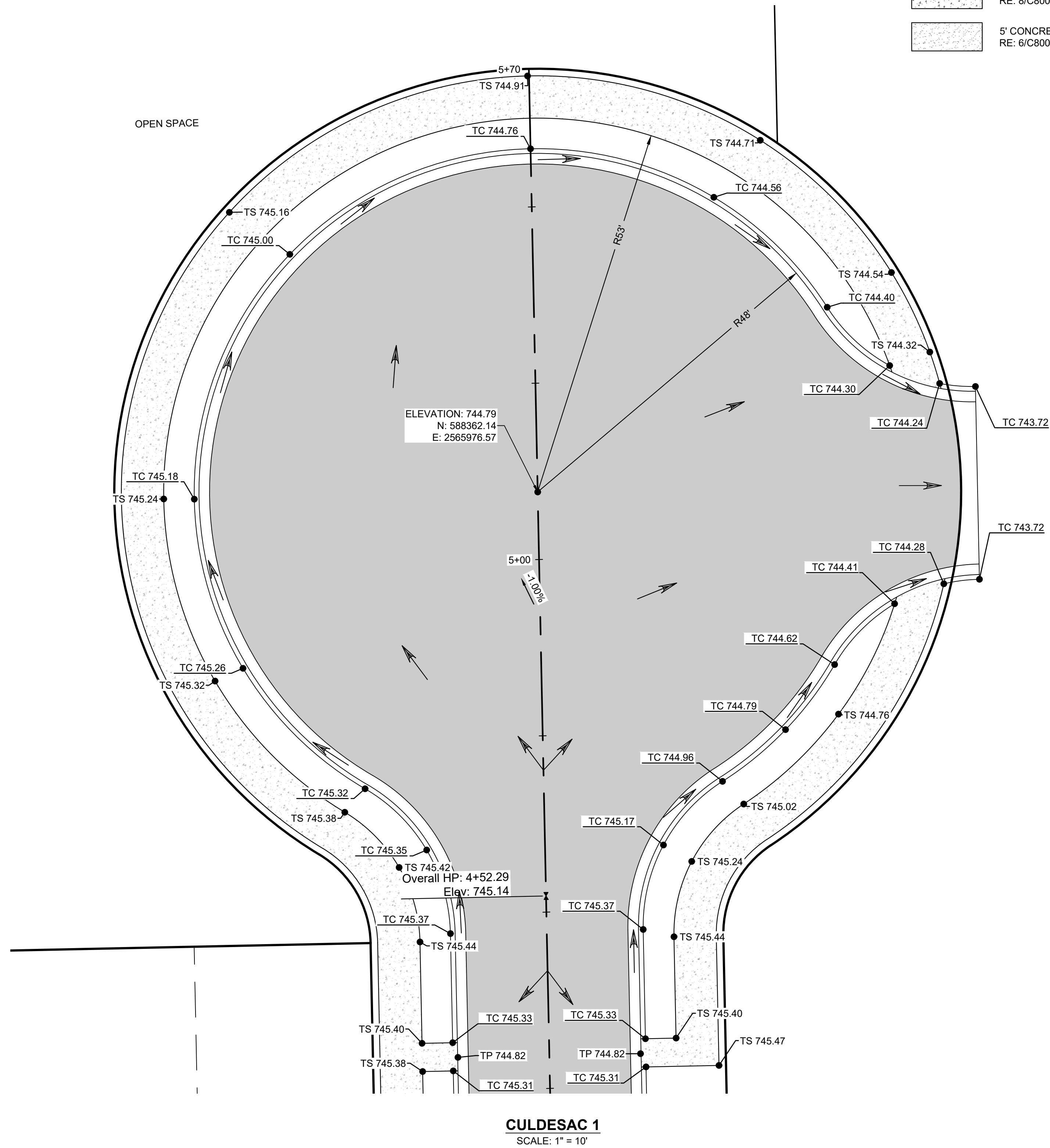
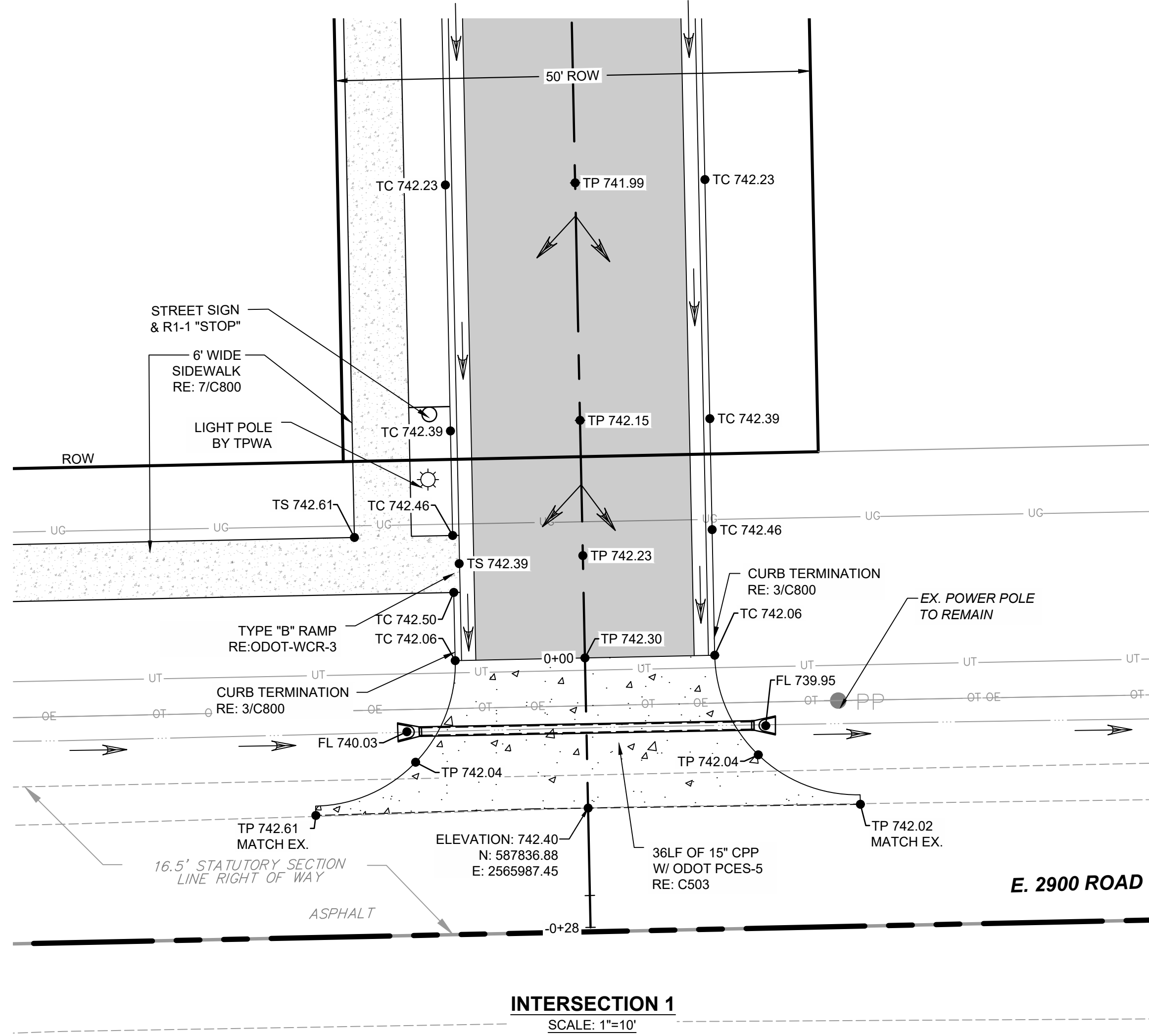
CAUTION
NOTICE TO CONTRACTOR

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BENCHMARKS

BENCHMARKS PER TOPOGRAPHIC SURVEY COMPLETED BY BENNETT SURVEYING, INC., DATED 07.10.2023.

BENCHMARK
1/2" IRON PIN
ELEV=732.40
N=587869.5210
E=2566591.5420



LEGEND

- ASPHALT PAVEMENT
RE: 7/C800
- CONCRETE PAVEMENT
RE: 8/C800
- 5' CONCRETE SIDEWALK
RE: 6/C800

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**CHEROKEE NATION
OCHELATA OK**

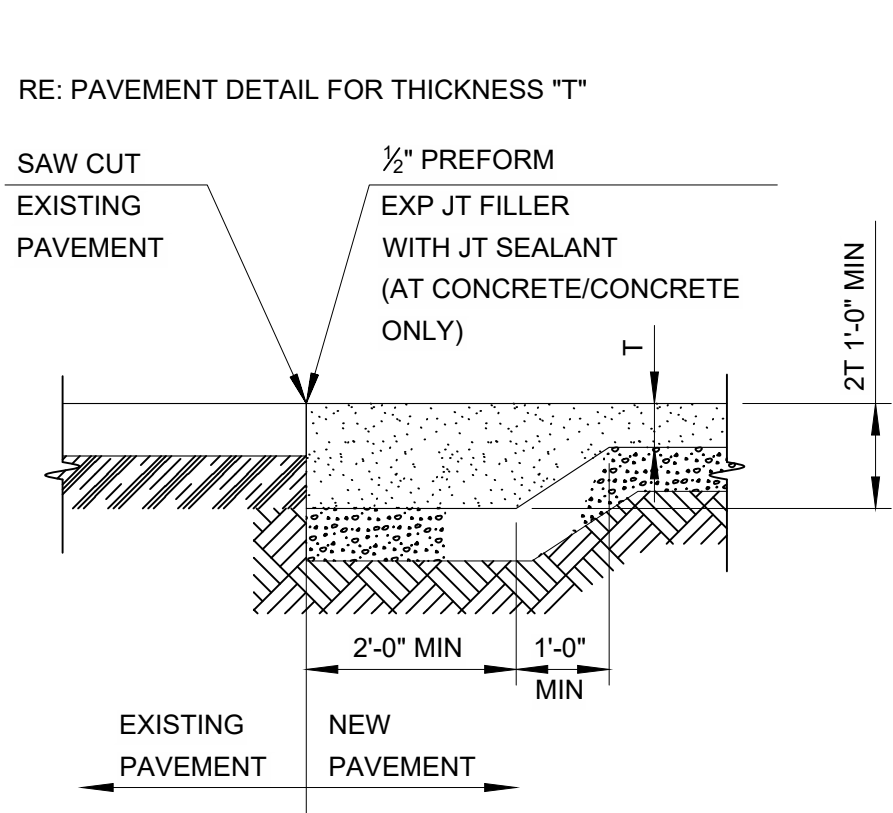
OCHELATA, OKLAHOMA

REV	DESCRIPTION	DATE
1	100% CD	09/15/23

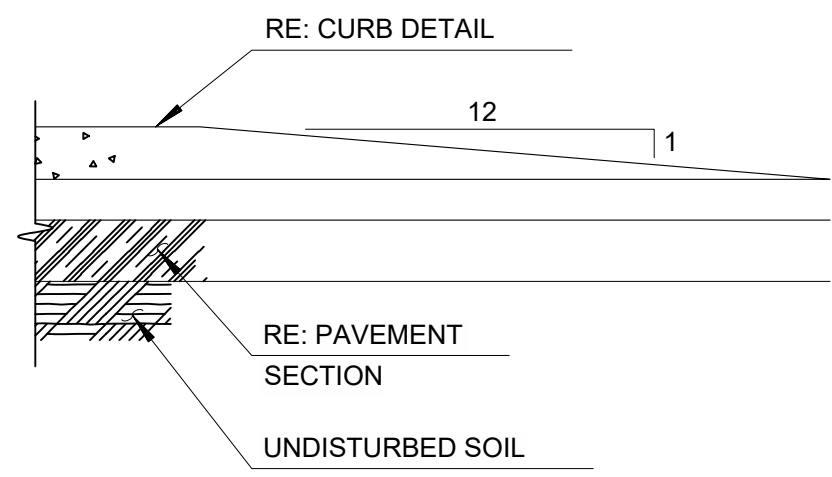
DATE: 10/10/23
PROJECT NO.: 2340348
SHEET NAME:

**INTERSECTION
DETAILS**

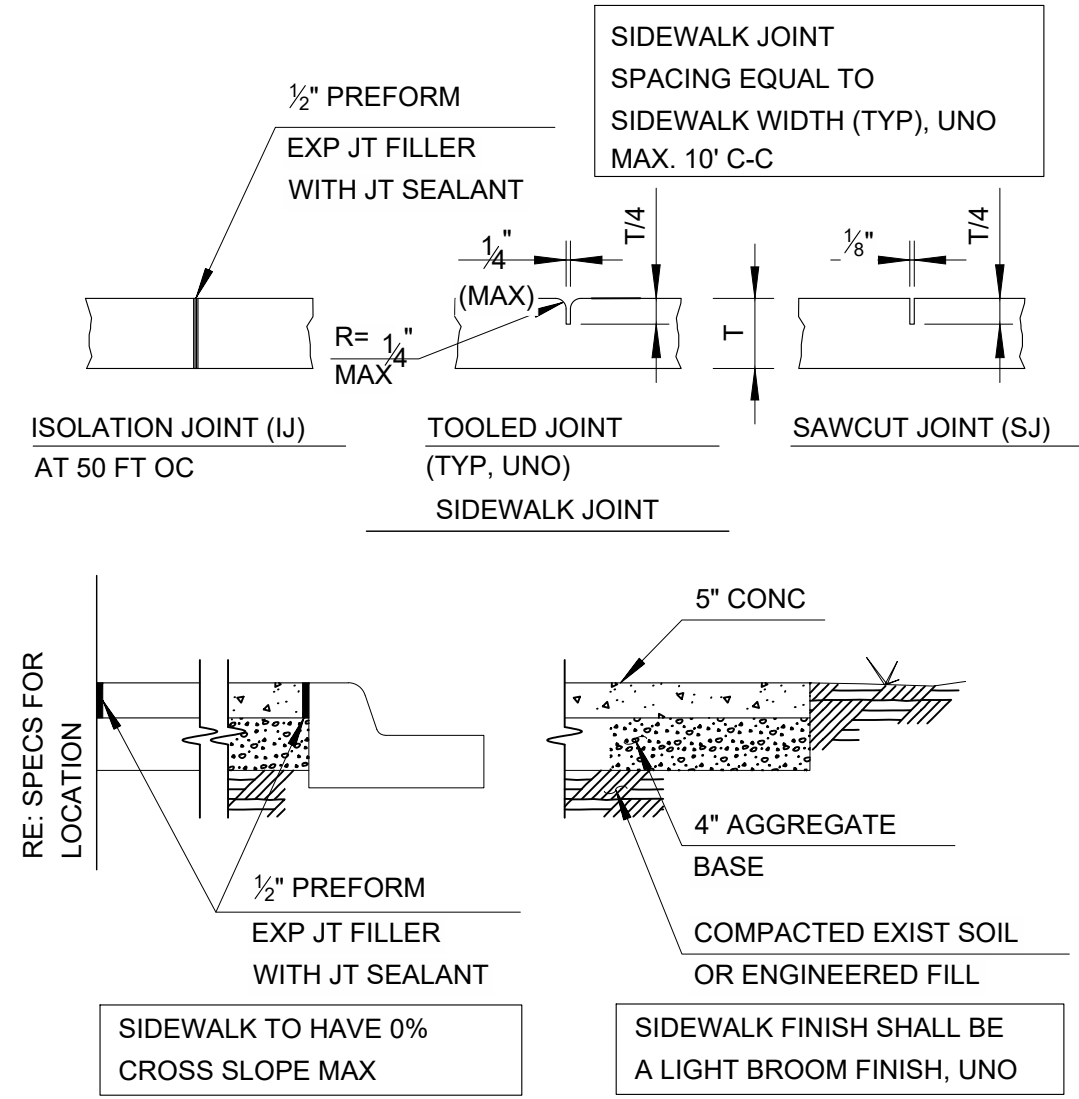
SHEET NO.
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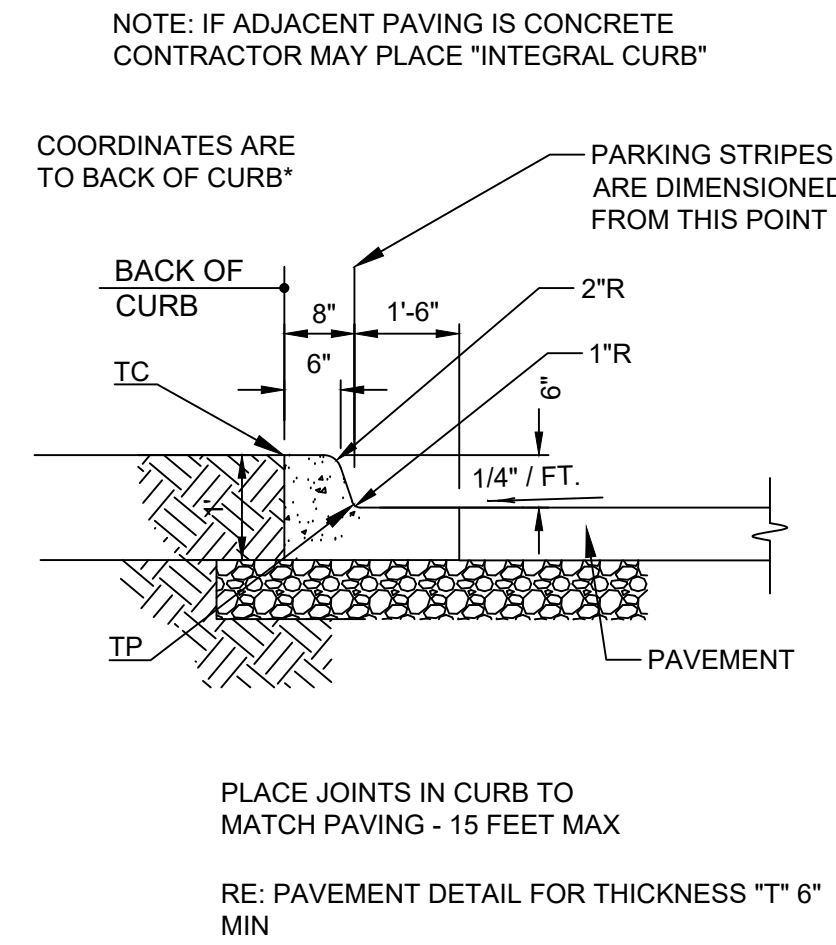
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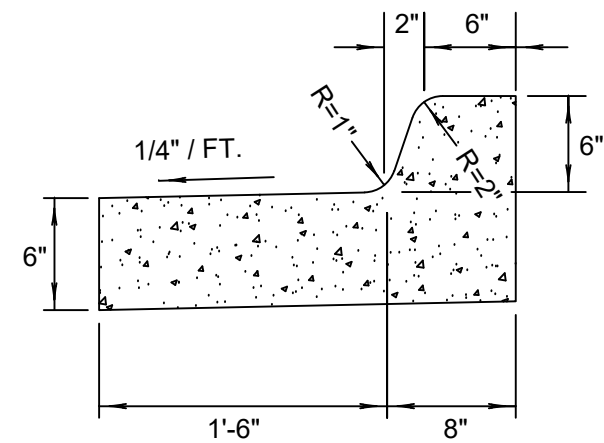
2 CURB TERMINATION
SCALE: NTS



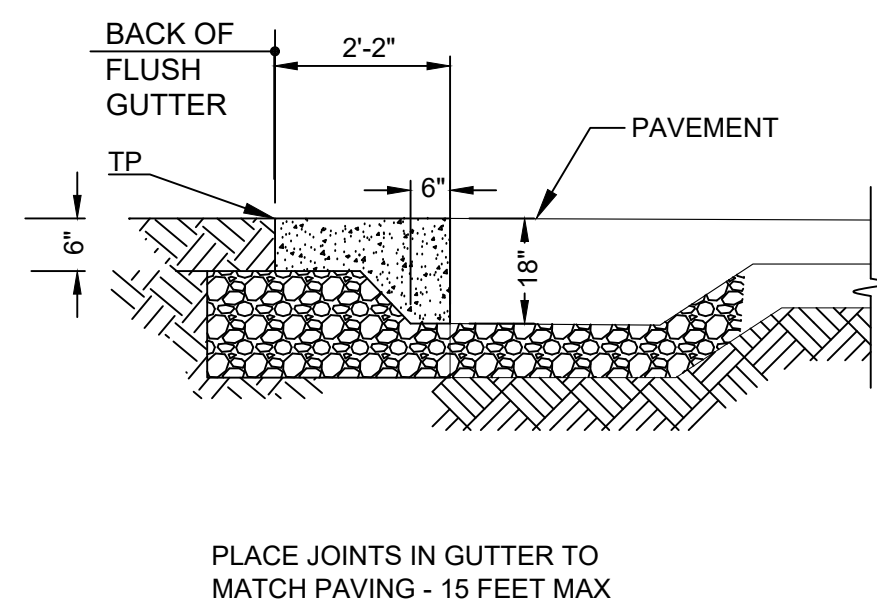
3 SIDEWALK
SCALE: NTS



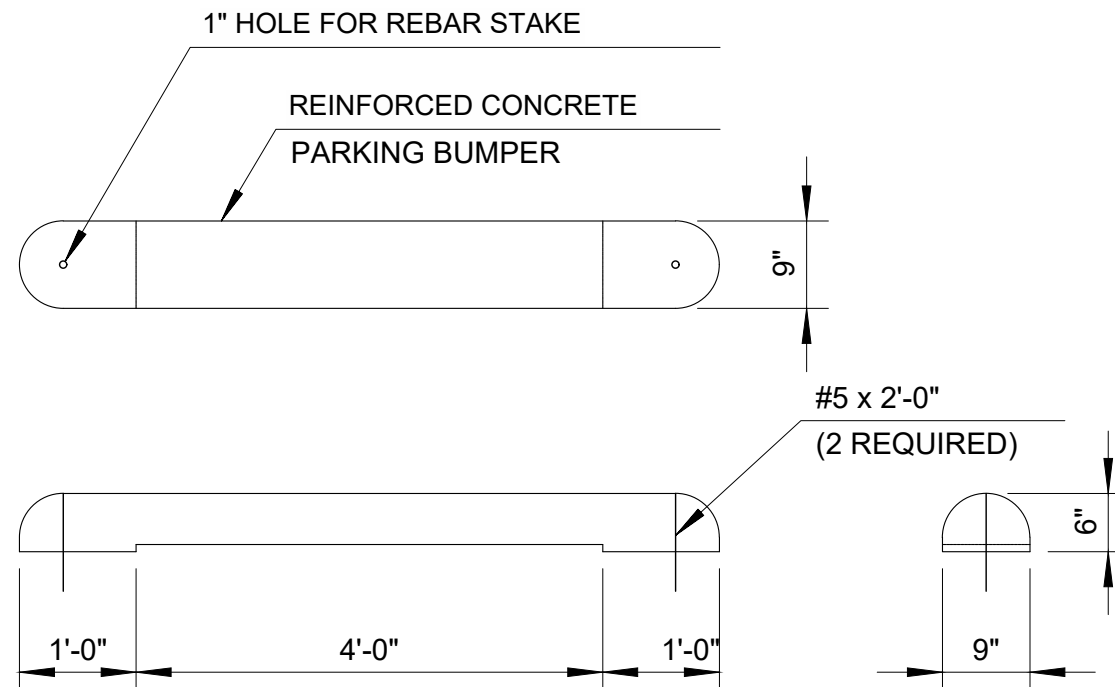
4 CURB AND GUTTER (BARRIER)
SCALE: NTS



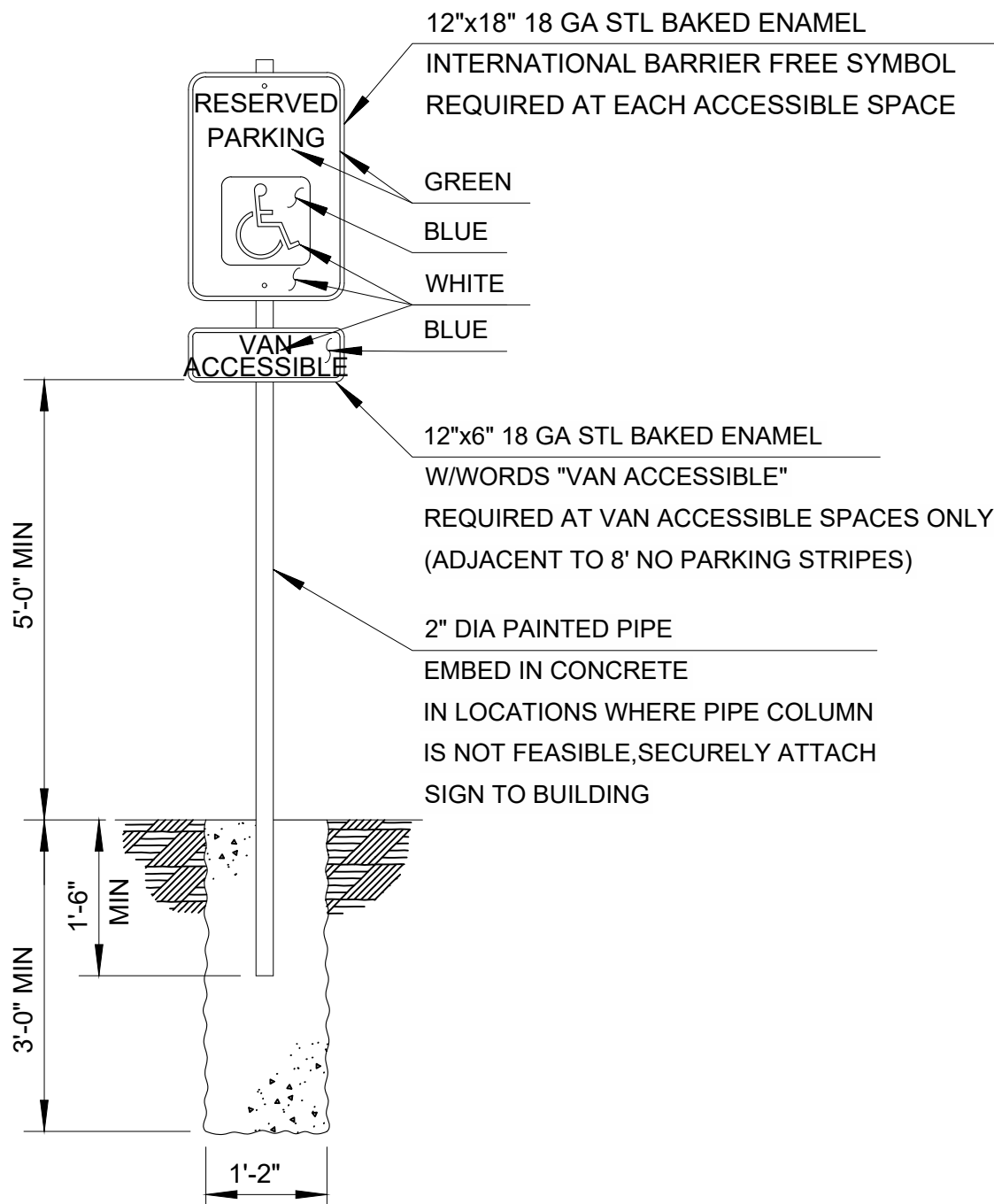
5 6" BARRIER CURB & GUTTER (FLOW AWAY)
SCALE: NTS



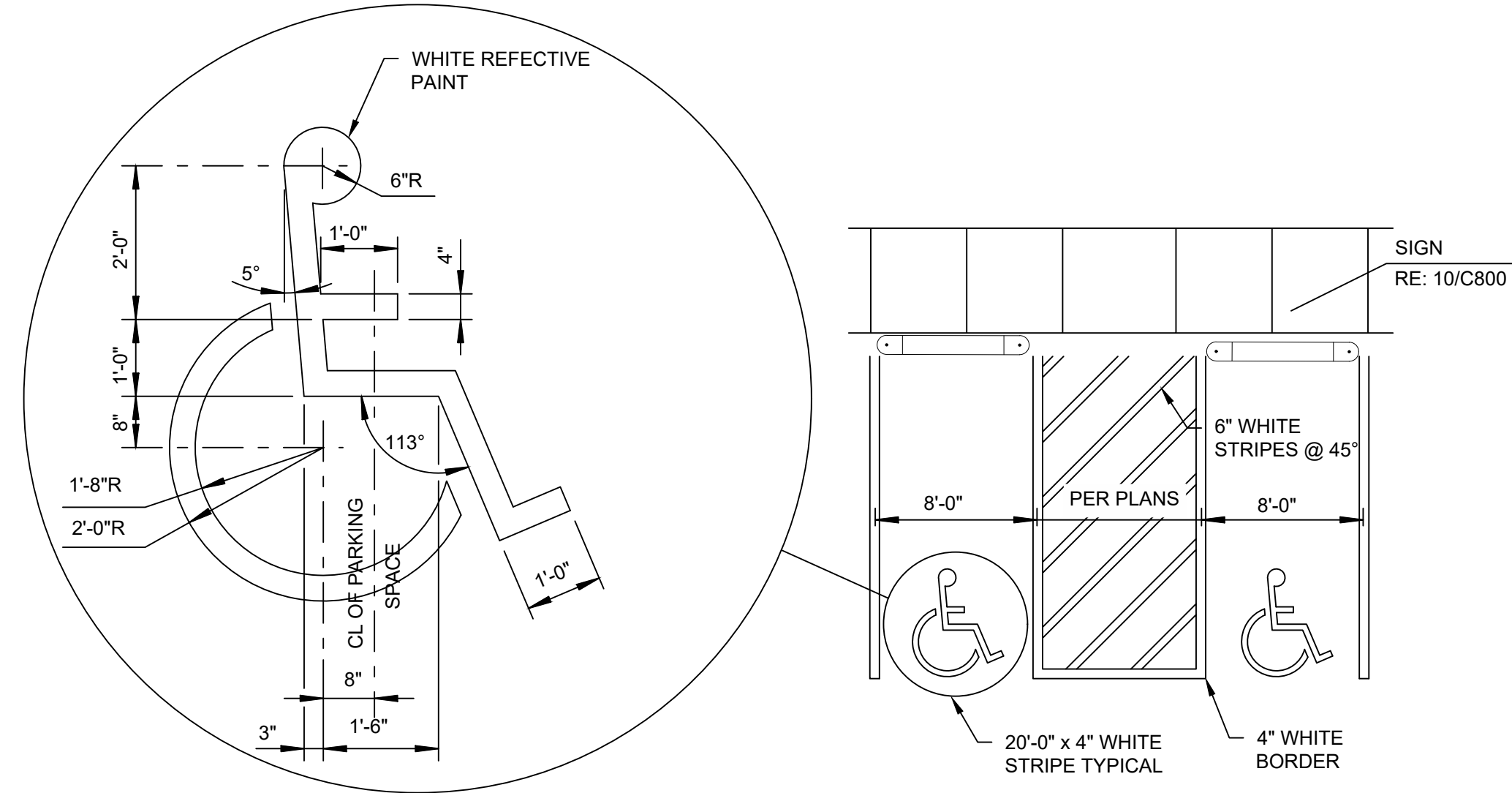
6 FLUSH GUTTER
SCALE: NTS



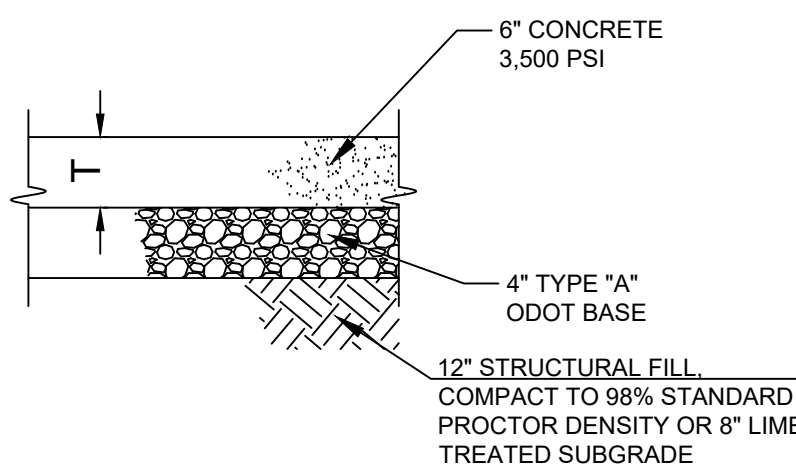
7 PARKING BUMPER
SCALE: NTS



8 ACCESSIBLE SIGNAGE
SCALE: NTS



9 ACCESSIBLE STRIPING
SCALE: NTS



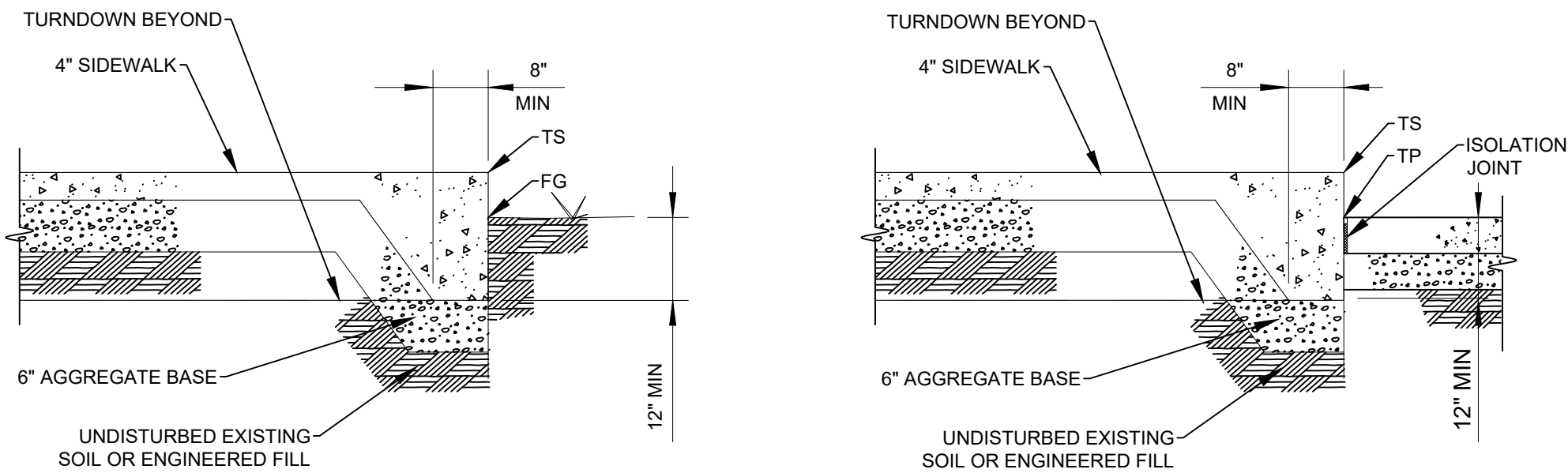
10 TYPICAL SECTION
SCALE: NTS

REV	DESCRIPTION	DATE
1	100% CD	09/15/23



CHEROKEE NATION
OCHELATA OK
OCHELATA, OKLAHOMA

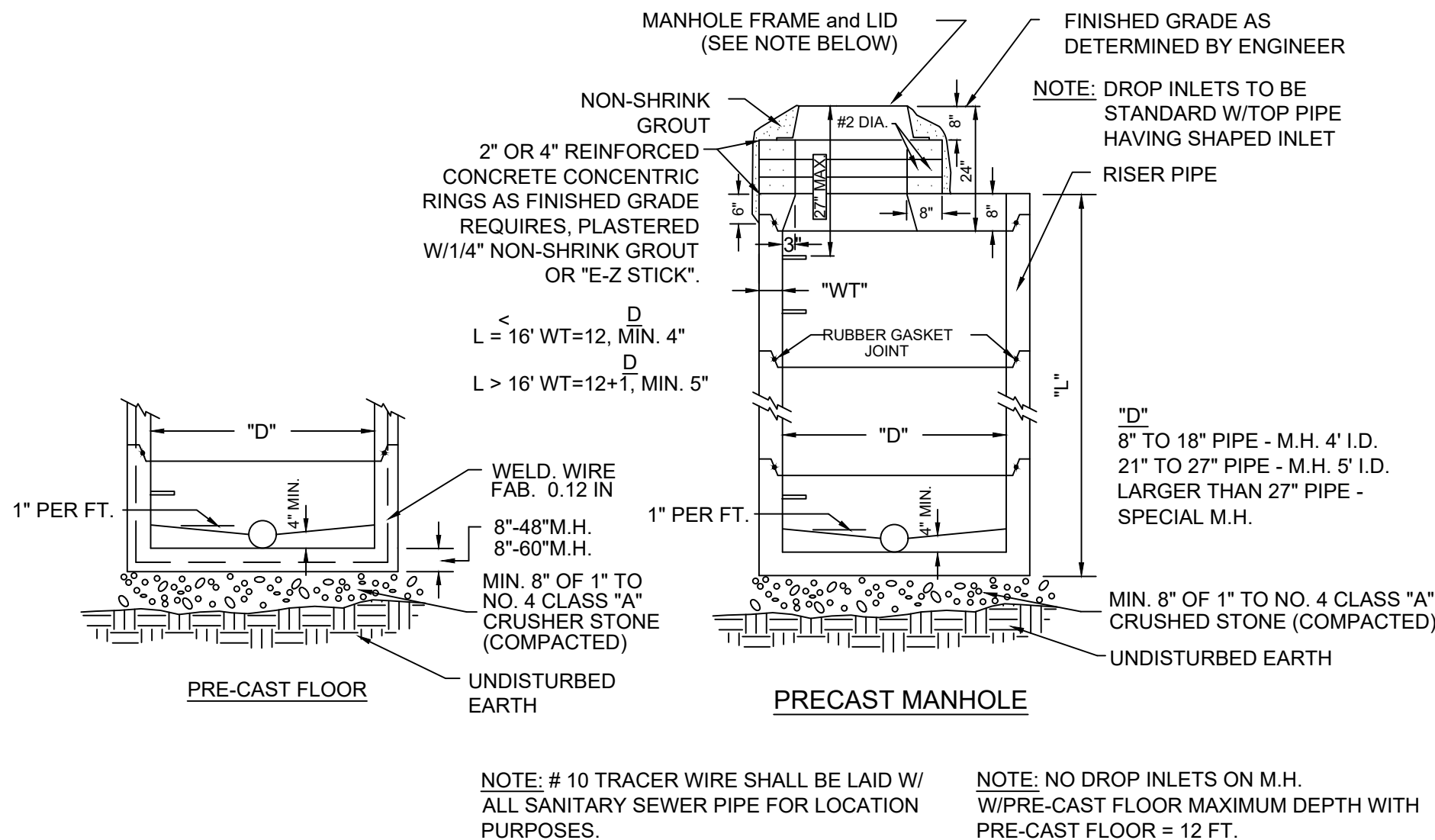
REV	DESCRIPTION	DATE
1	100% CD	09/15/23



UNREINFORCED SIDEWALK

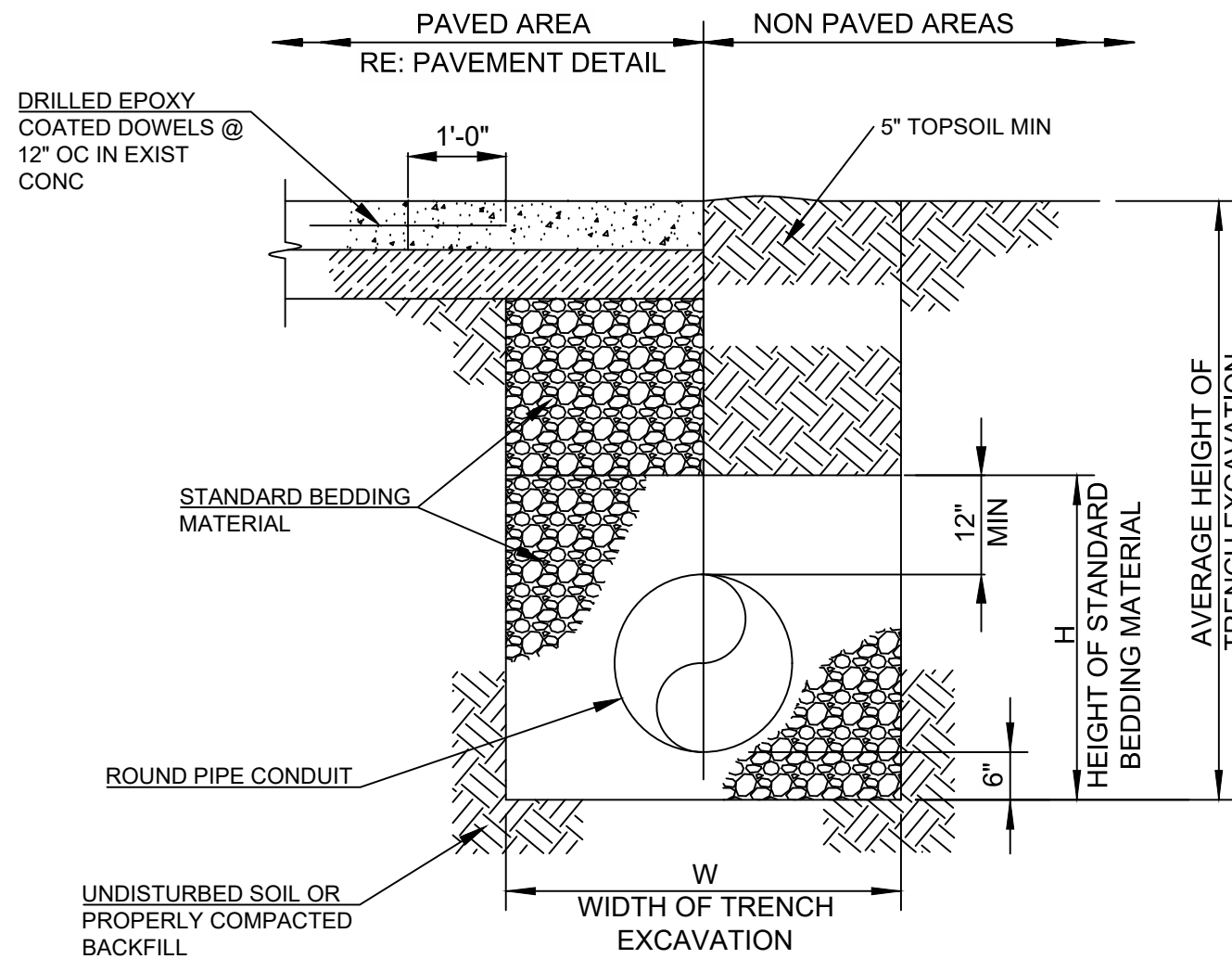
12 CONCRETE STOOP

SCALE: NTS



14 MANHOLE DETAILS

SCALE: NTS



LIMITS OF STANDARD BEDDING MATERIAL QUANTITIES FOR BEDDING MATERIAL DO NOT INCLUDE THE SPACE WITHIN AND BOUNDED BY THE OUTER SURFACE OF THE PIPE CONDUIT.

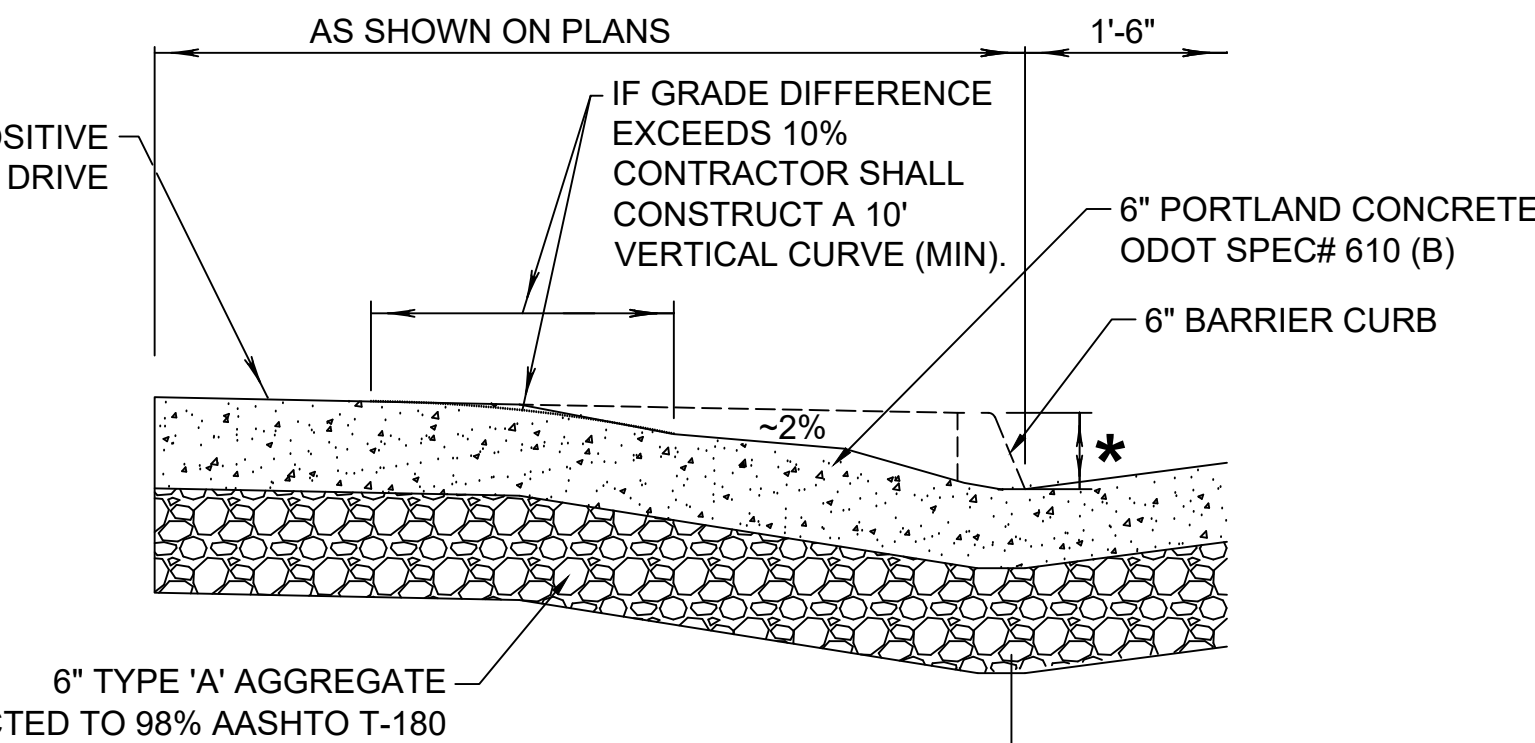
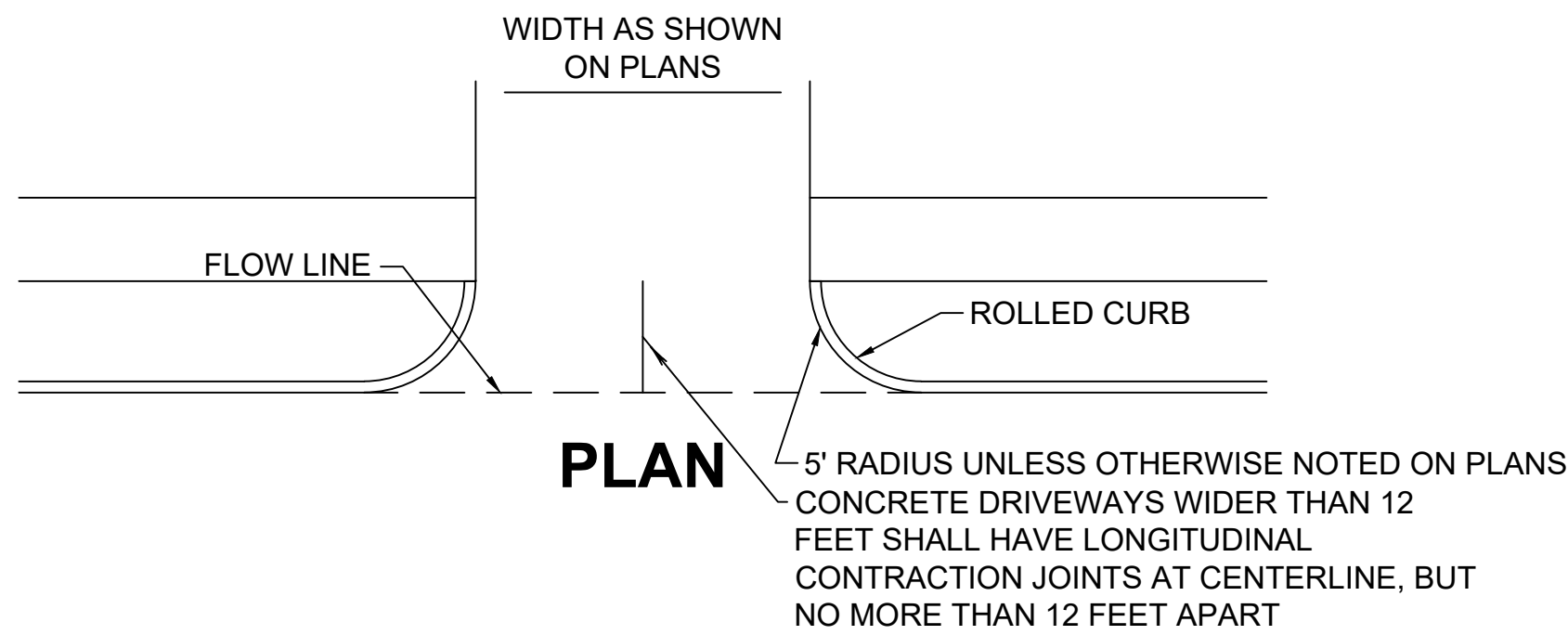
TRENCH NOTE:
BRACING AND SHEATHING OR OTHER TRENCH PROTECTION TO BE PROVIDED TO MEET APPLICABLE STATE AND OSHA SAFETY STANDARDS. ALL SUCH TRENCH PROTECTION TO BE RESPONSIBILITY OF THE CONTRACTOR.

BEDDING NOTE:
STANDARD BEDDING MUST BE ODOT TYPE "A" AGGREGATE BASE. UNDER PAVING ODOT TYPE "A" AGGREGATE BASE MUST BE TO THE TOP OF THE TRENCH. ODOT TYPE "A" AGGREGATE BASE TO BE COMPACTED TO 95% STANDARD PROCTOR.

PIPE SIZE, IN.	TRENCH WIDTH, FT.
ID < 24"	OD + 2'
24" > ID < 36"	OD + 2.5'
36" > ID < 60"	OD + 3.5'
ID > 60"	OD + 4'

13 STANDARD PIPE BEDDING DETAIL FOR STORM SEWER

SCALE: NTS

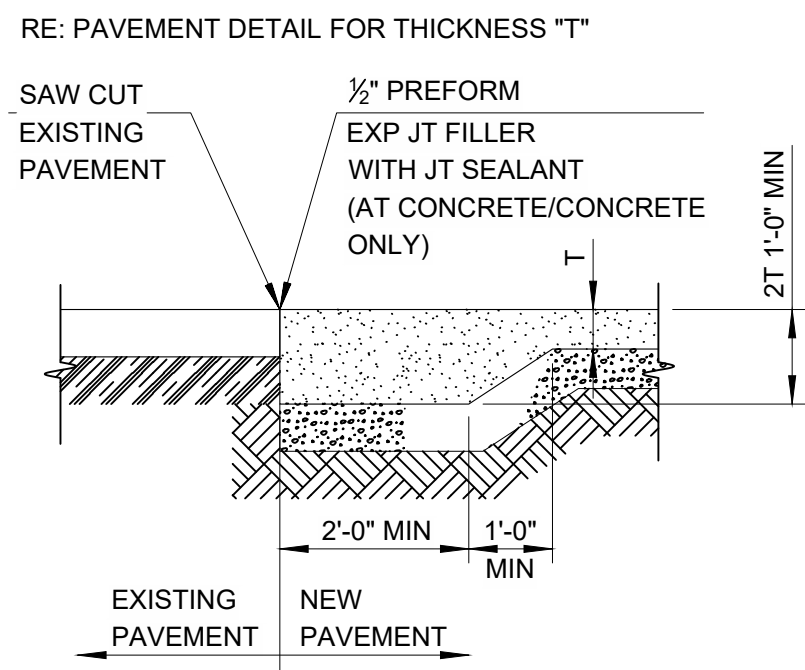


* DRIVE SHALL RISE TO CURB HEIGHT (6" MIN.)

PROFILE

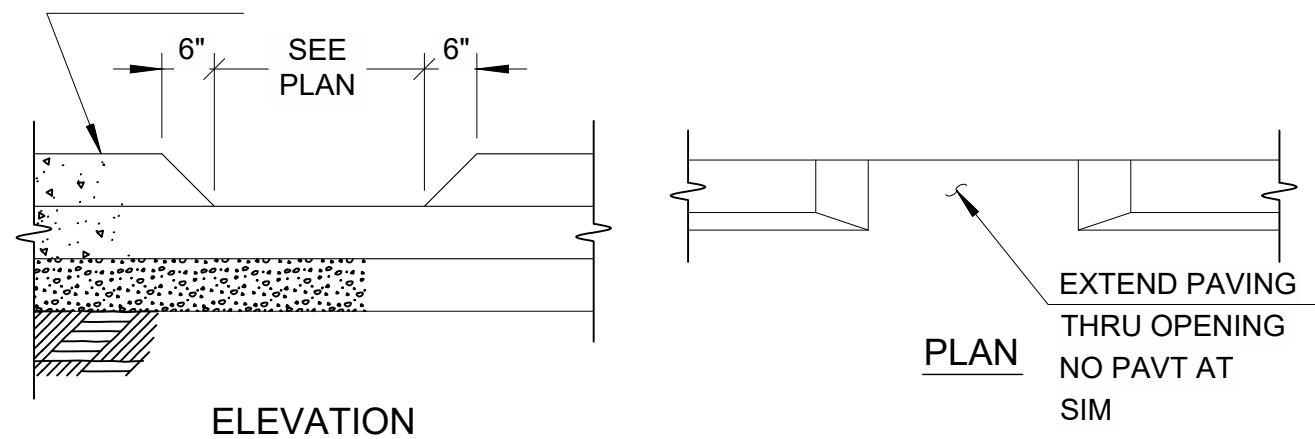
15 CONCRETE DRIVEWAY DETAIL

SCALE: NONE



16 PAVEMENT TRANSITION

SCALE: NTS



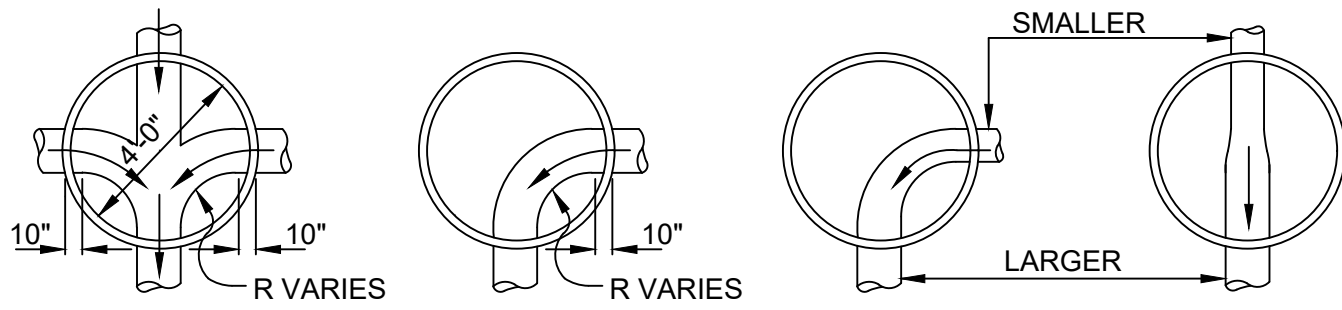
17 CURB CUT DRAIN

SCALE: NTS

ORIG SIZE: 24"X36"

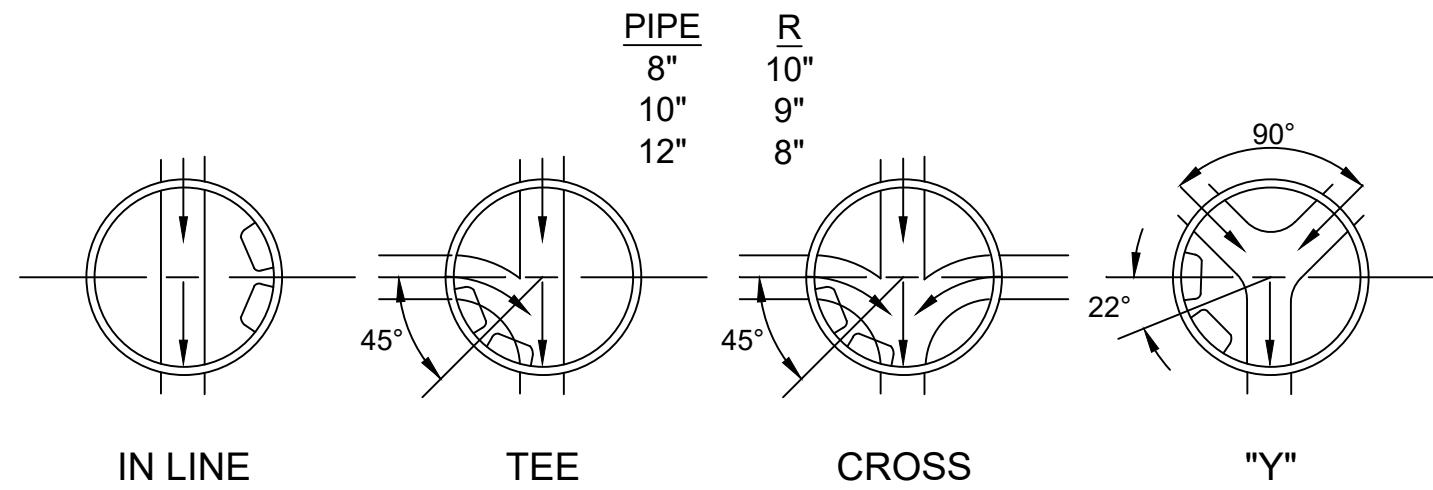
PLOT: 11/10/2023 2:44:11 PM

Z:\2340348 CN pre-con Site 7. OchelataDwg\PRODUCTION\2340348 details.dwg



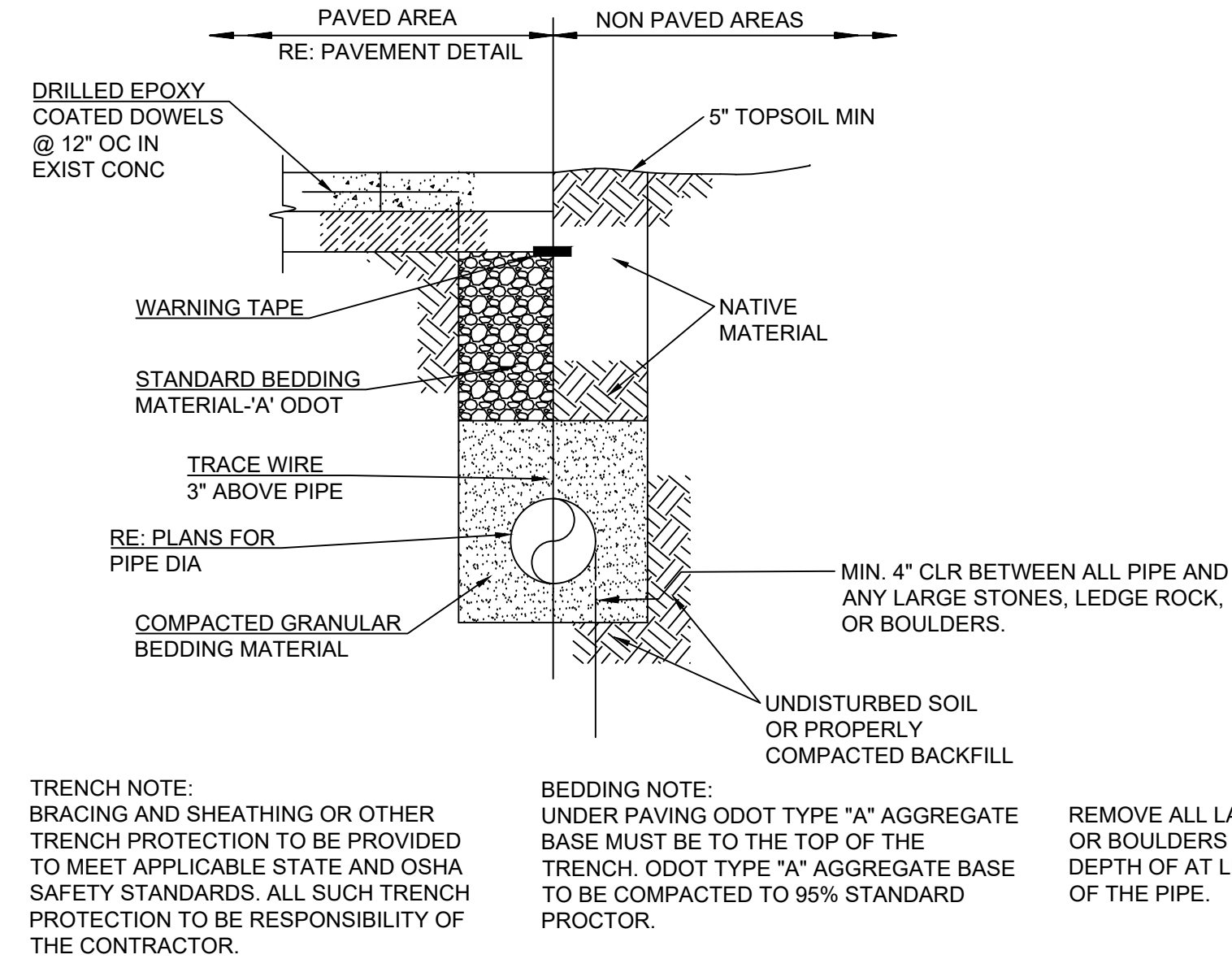
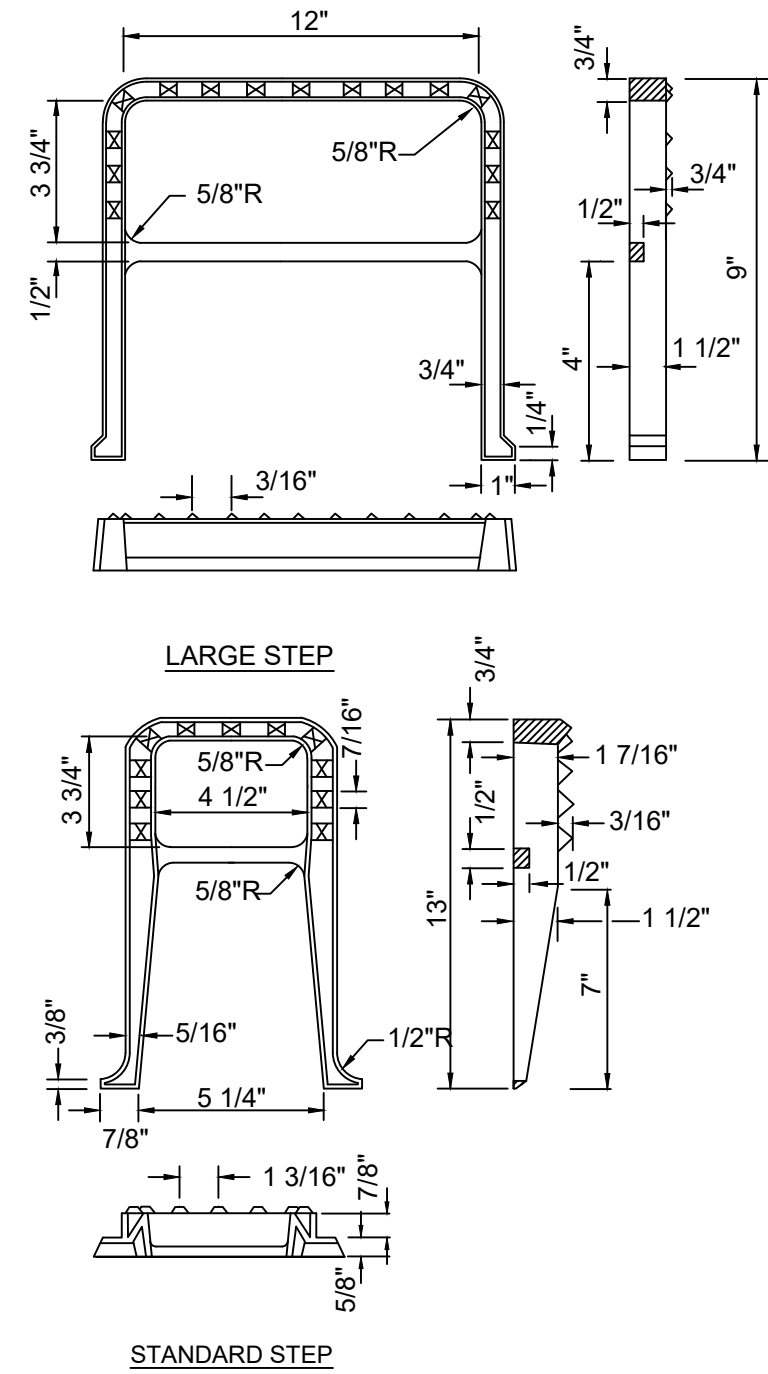
1 TYPICAL MANHOLE INVERT DETAILS

SCALE: NTS



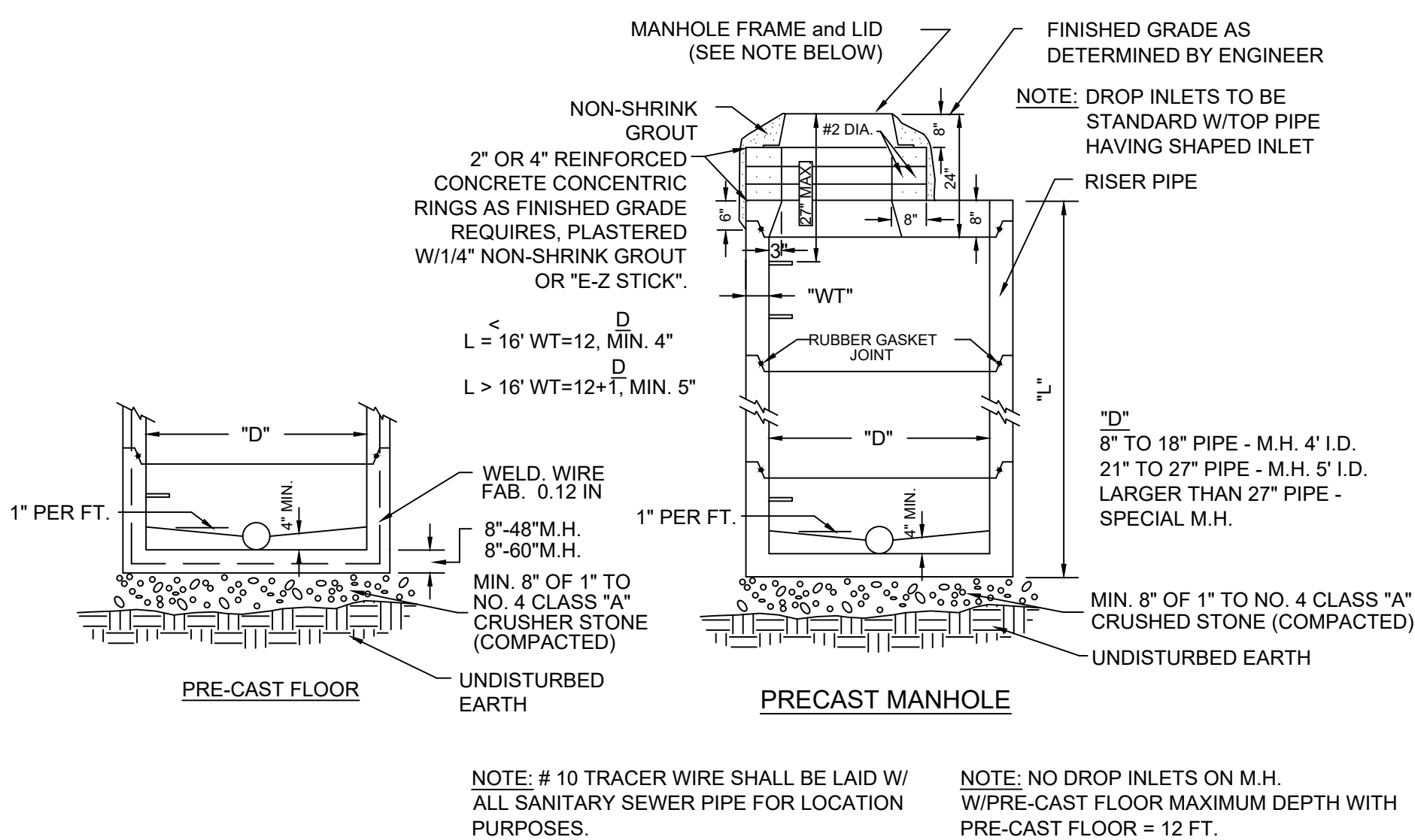
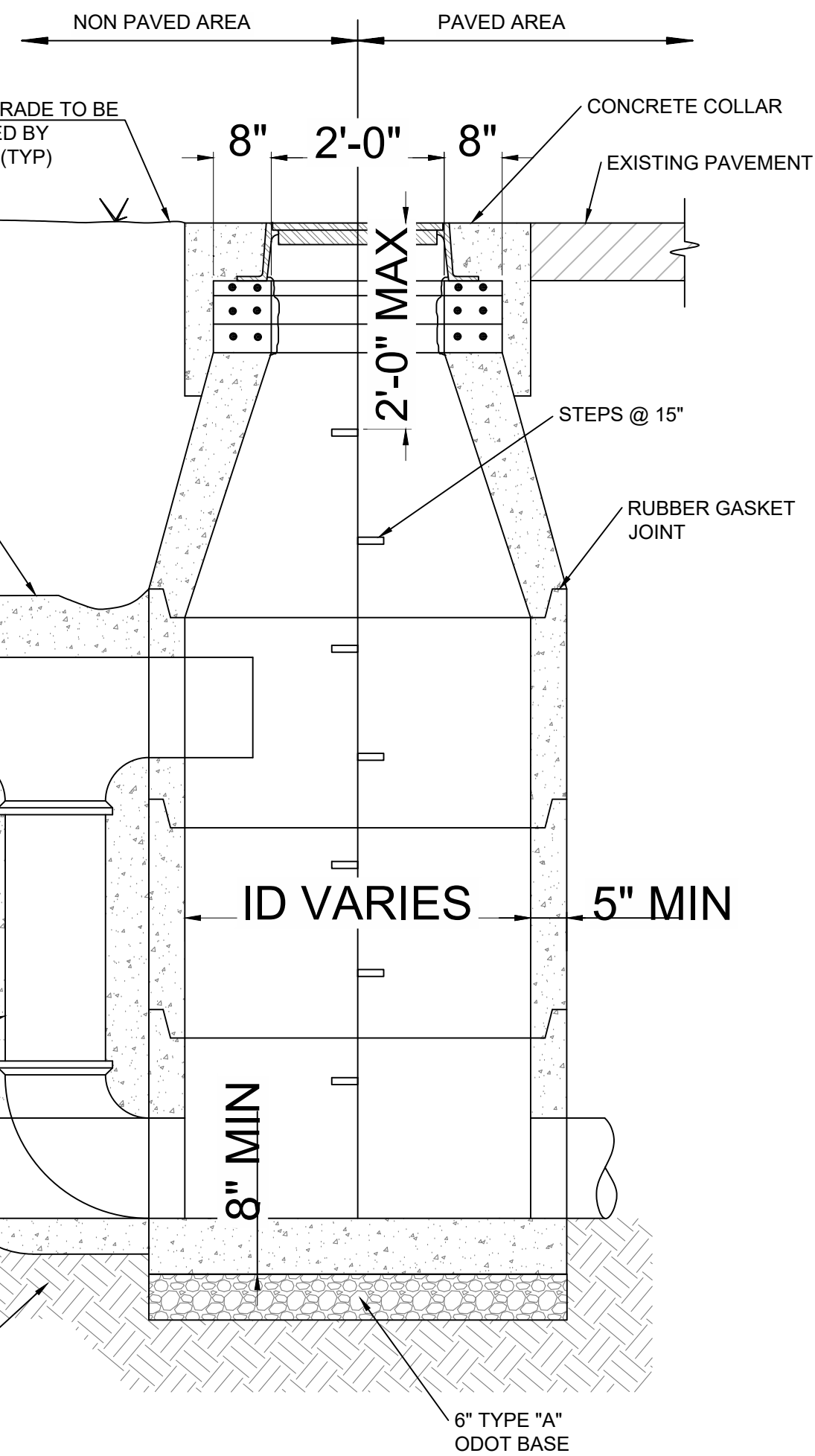
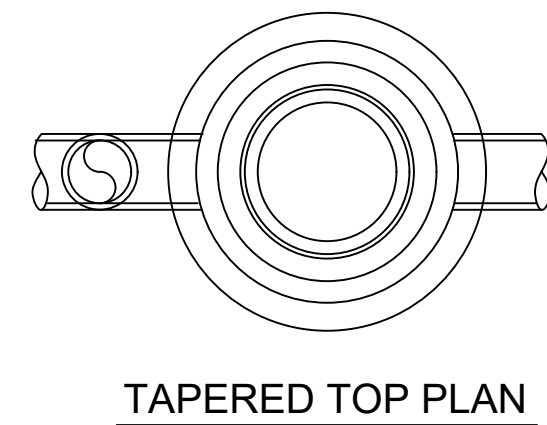
2 LOCATION MANHOLE STEPS DETAILS

SCALE: NTS



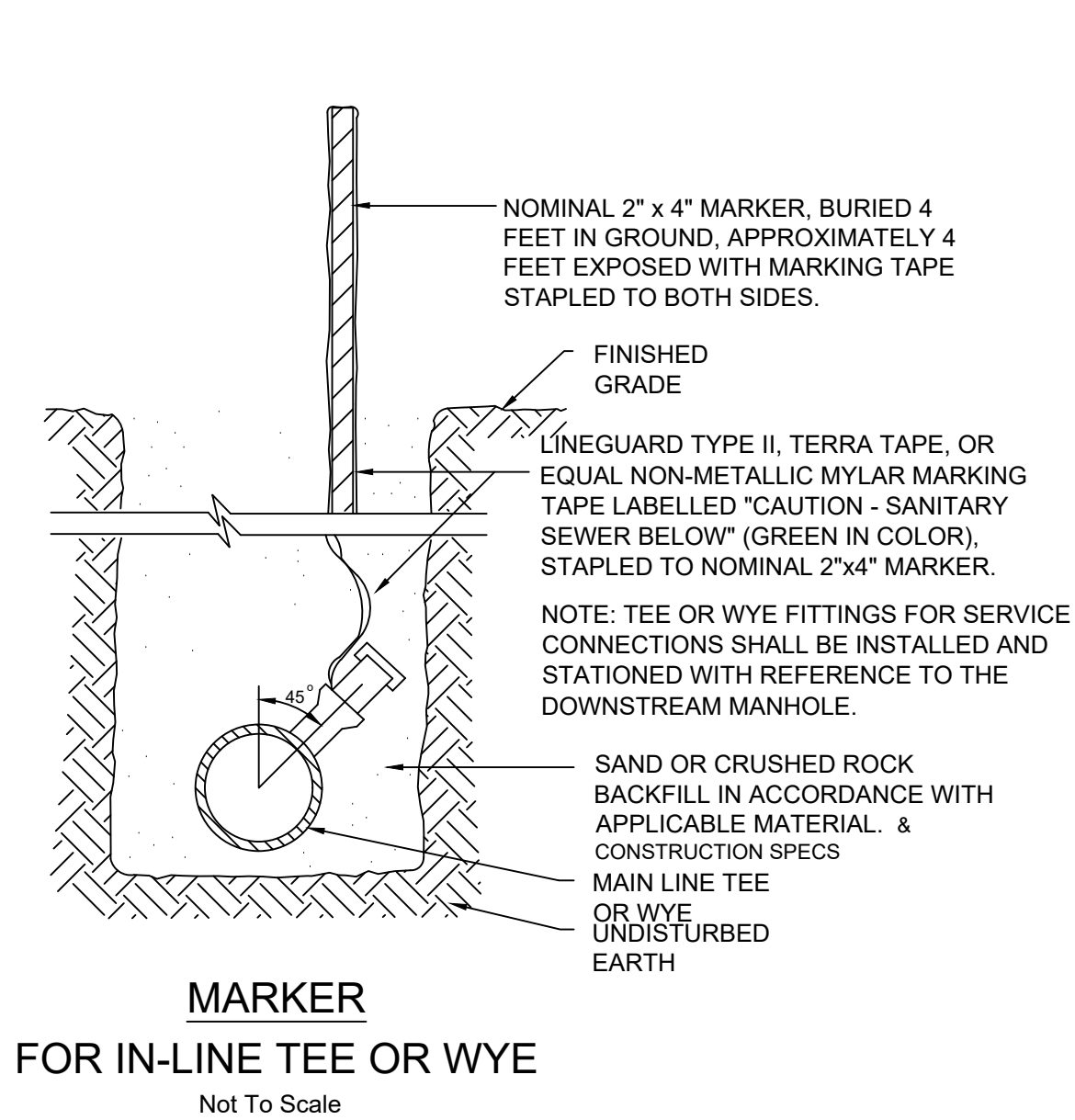
3 PIPE TRENCH - ALL PIPES EXCEPT STORM SEWER

SCALE: NTS



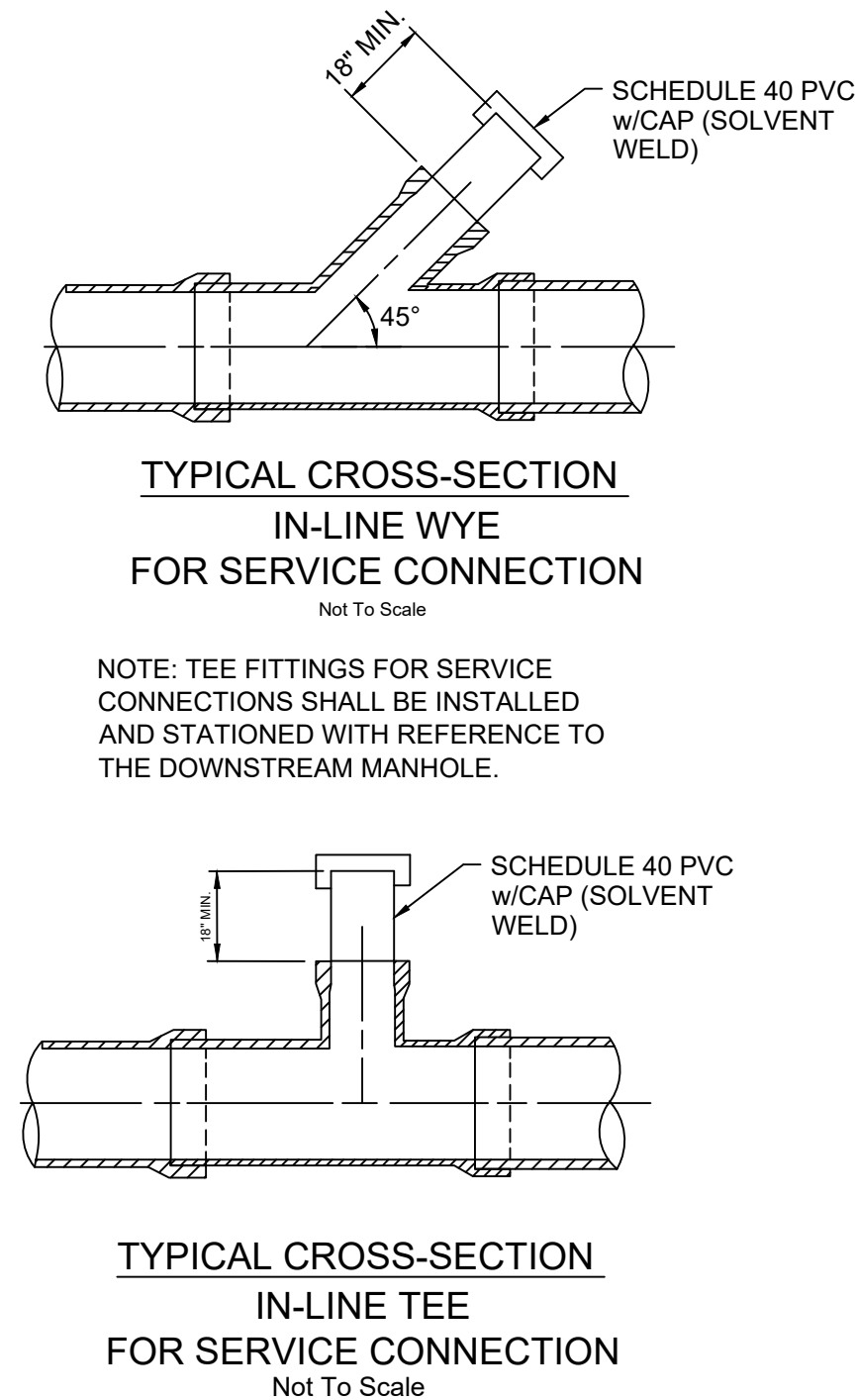
4 MANHOLE DETAILS

SCALE: NTS



5 IN-LINE TEE DETAILS

SCALE: NTS



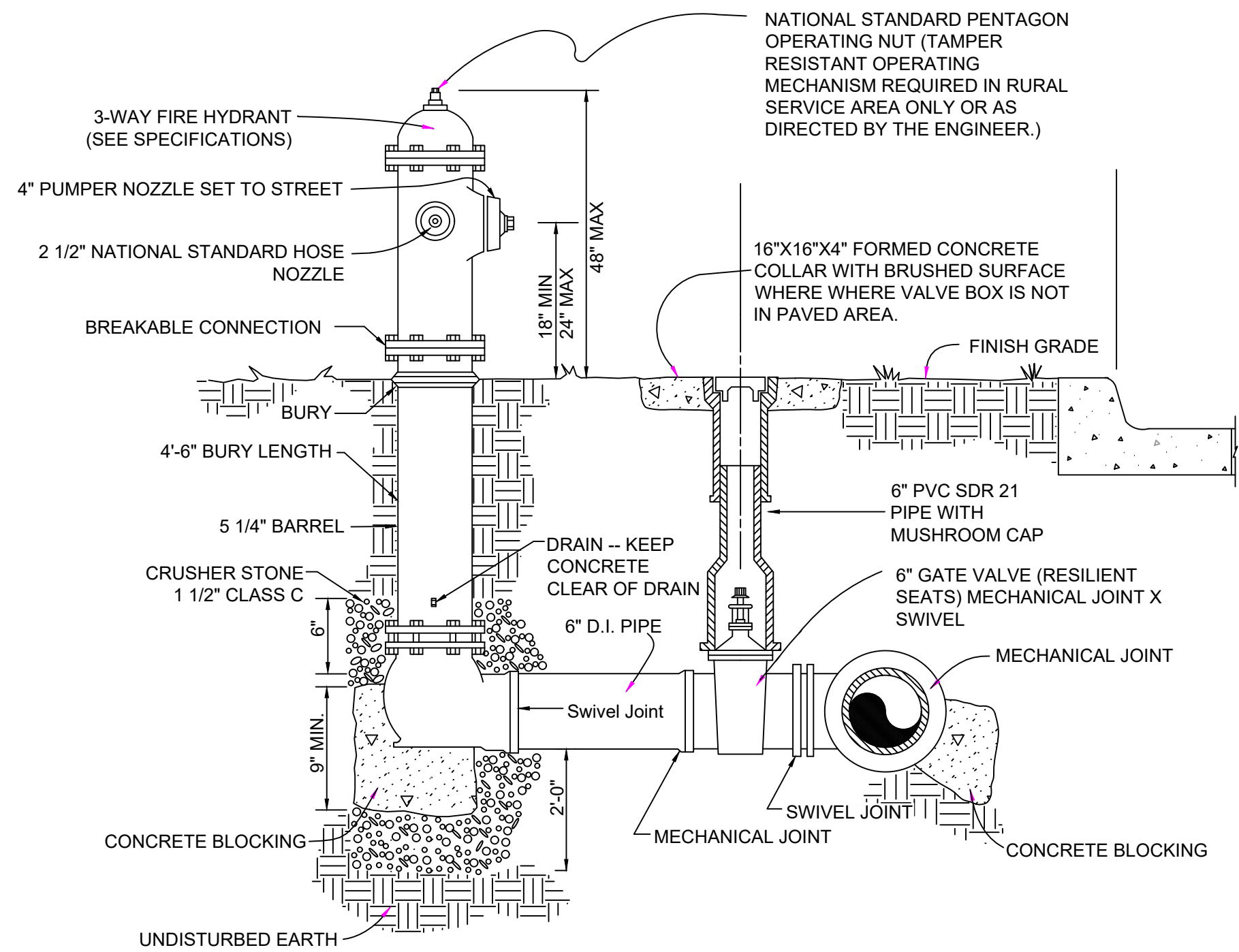
6 TAPERED DROP MANHOLE

SCALE: NTS

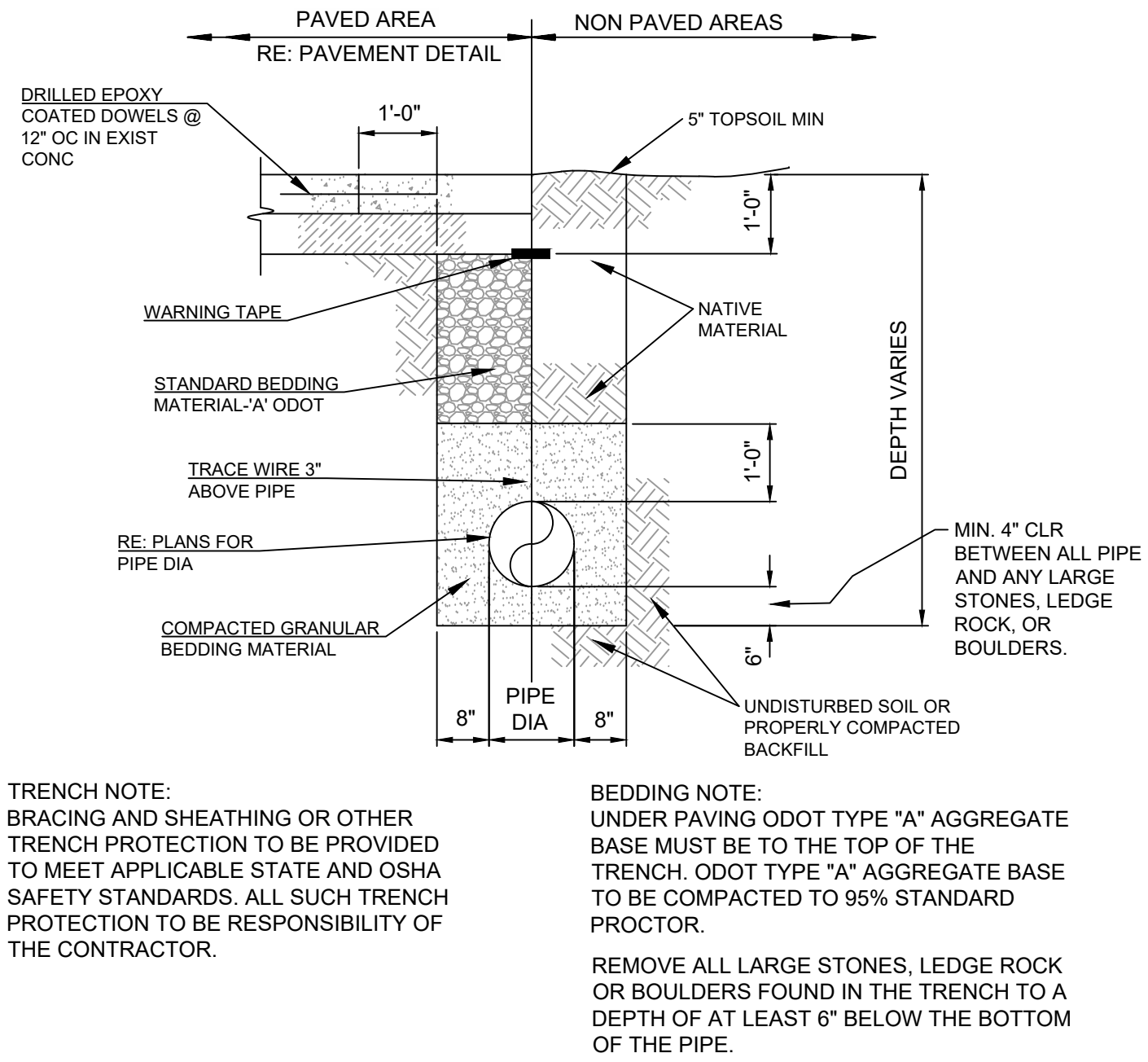
ORIG SIZE: 24"X36"

PLOT: 11/10/2023 2:44:12 PM

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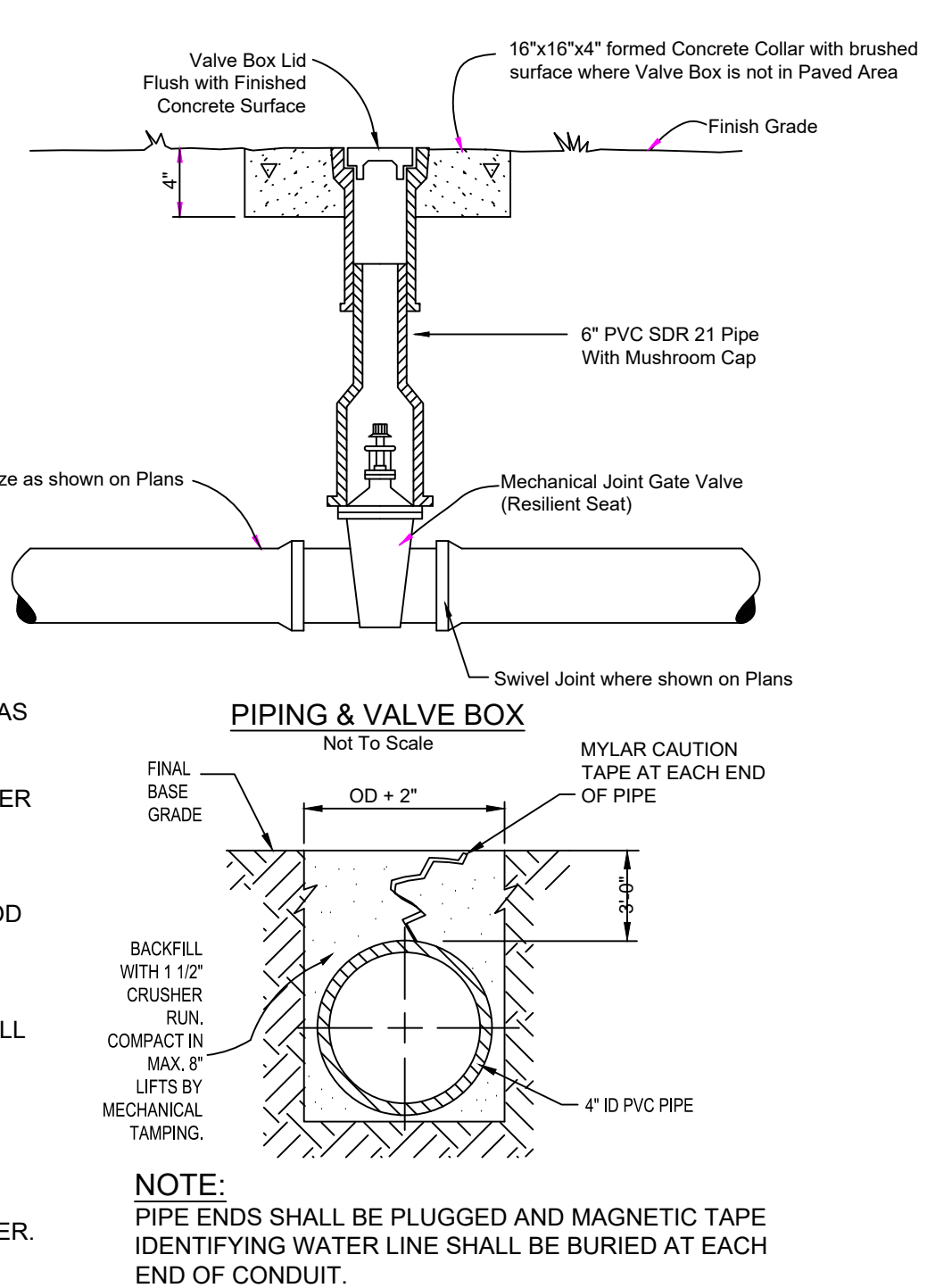


1 3-WAY FIRE HYDRANT ASSEMBLY
SCALE: NTS

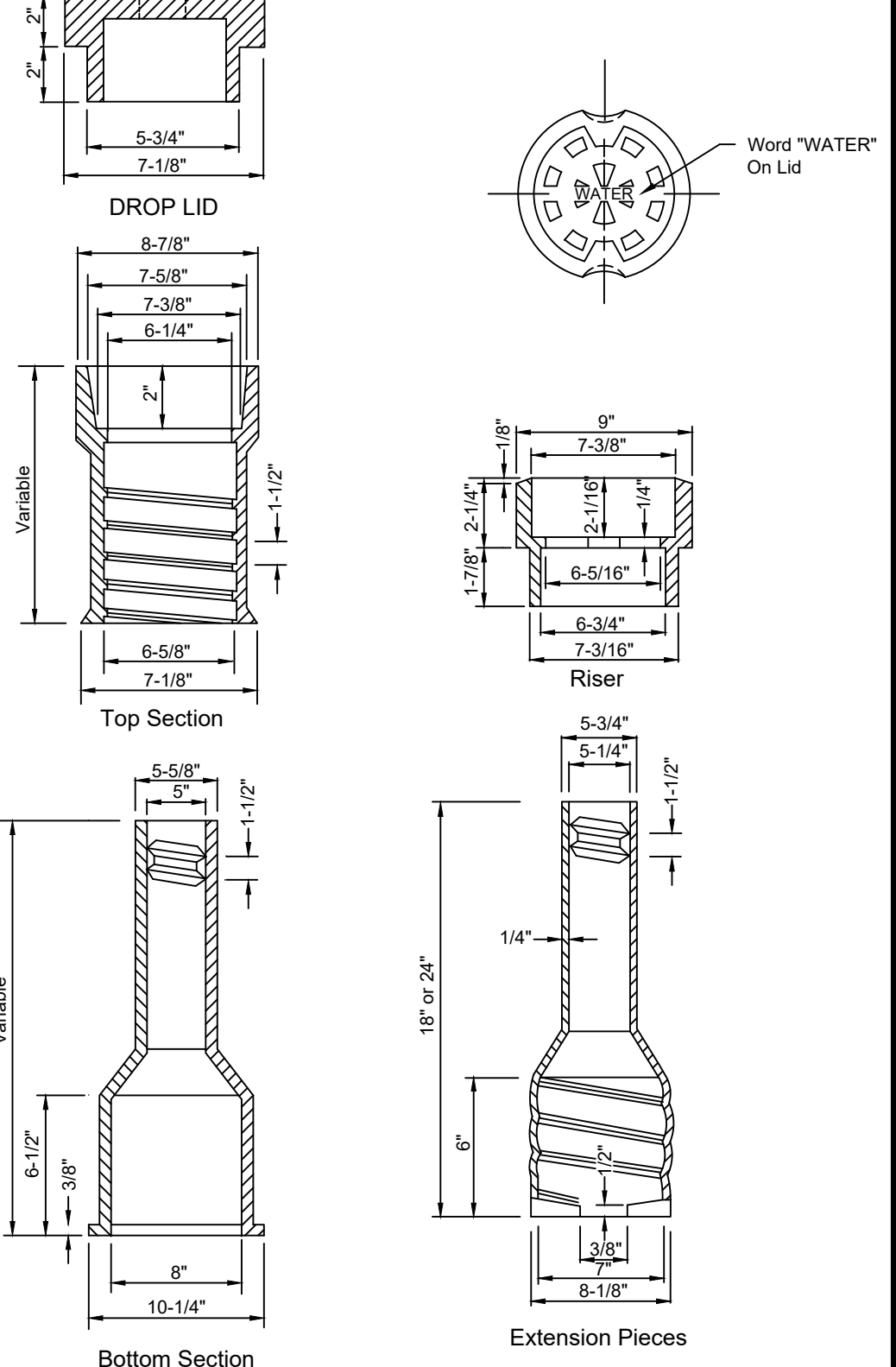


2 PIPE TRENCH - ALL PIPES EXCEPT STORM SEWER
SCALE: NTS

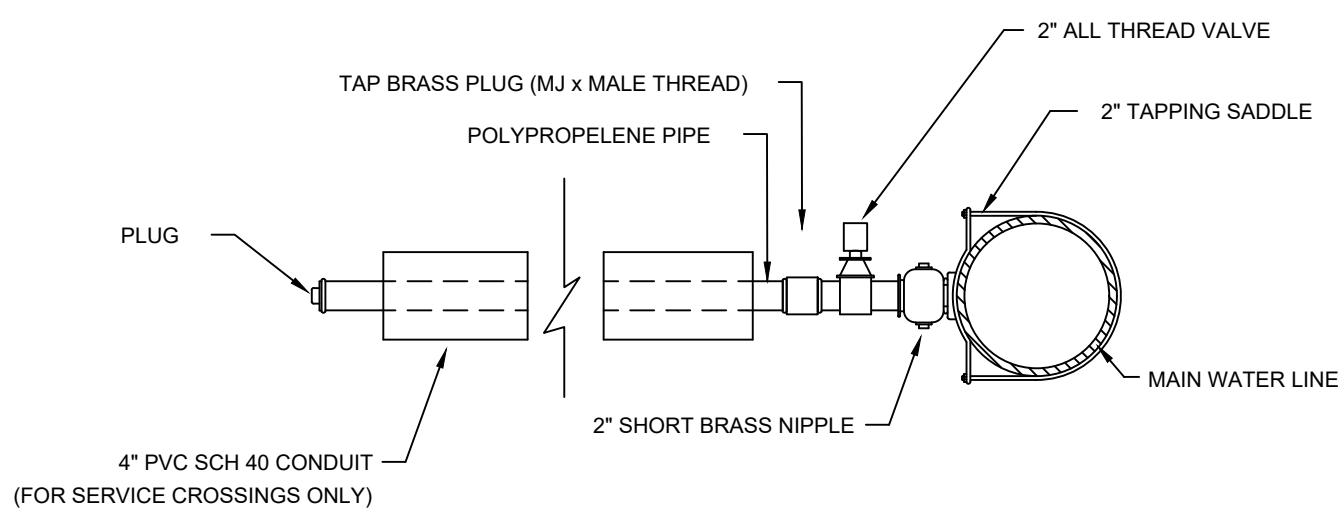
NOTES TO CONTRACTOR:
1. THIS DETAIL IS SUBMITTED AS AN APPROVED METHOD OF CONSTRUCTION FOR INSTALLATION OF PIPE UNDER DRIVEWAYS ONLY.
2. NO ADDITIONAL PAYMENT SHALL BE MADE FOR WORK INCIDENTAL TO THIS METHOD OF CONSTRUCTION.
3. DETAIL IS FOR RIGID PAVEMENT ONLY (I.E. CONCRETE OR ASPHALT). ALL OTHER DRIVES SHALL BE OPEN CUT. SURFACE MATERIAL ON OPEN CUT CROSSING SHALL BE REPLACED WITH THE SAME TYPE AS REMOVED OR AS APPROVED BY THE ENGINEER.



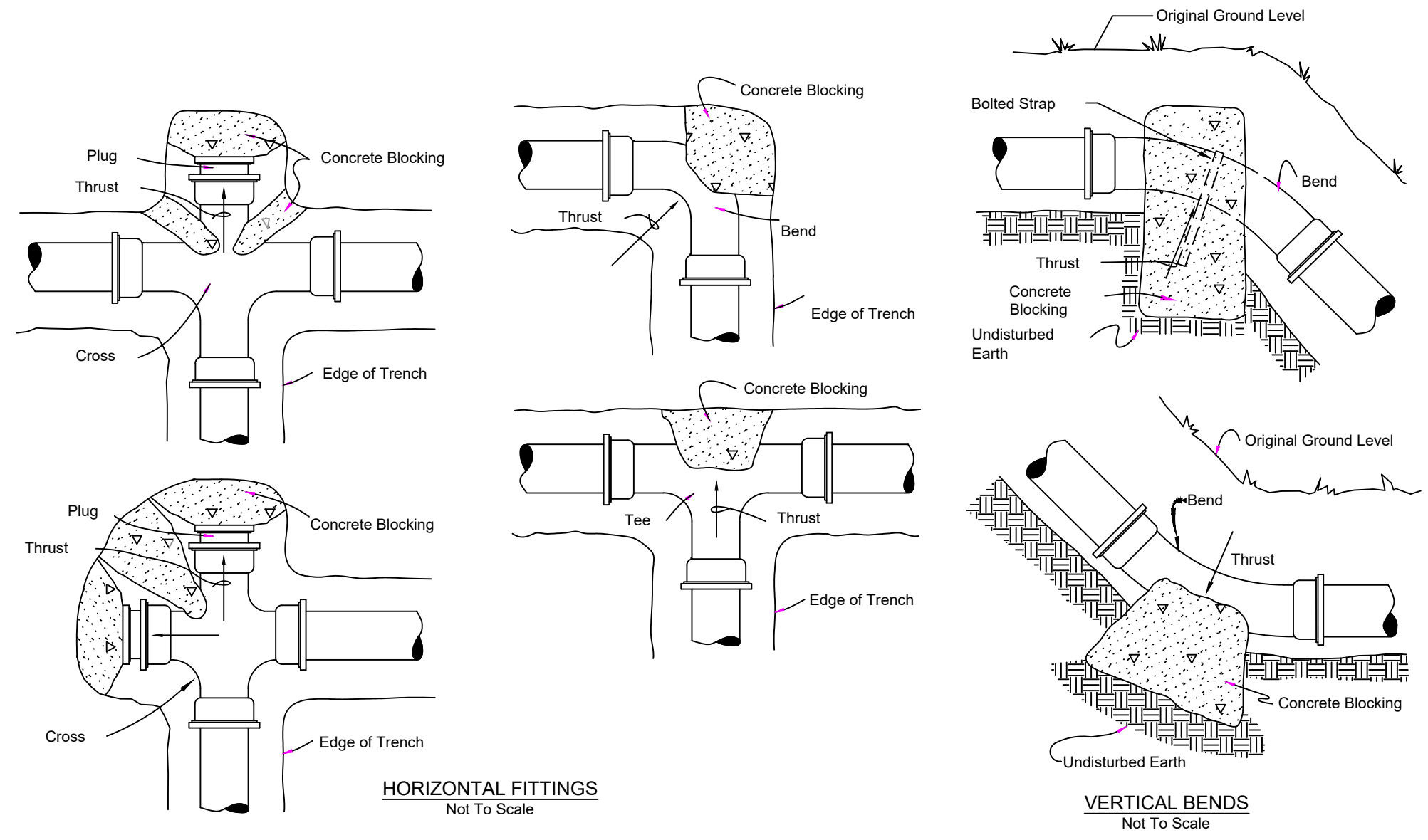
3 TYPICAL CONDUIT FOR SERVICE LINE CROSSING
SCALE: NTS



4 VALVE BOX (CAST IRON)
SCALE: NTS



5 2" ASSEMBLY DETAIL
SCALE: NTS

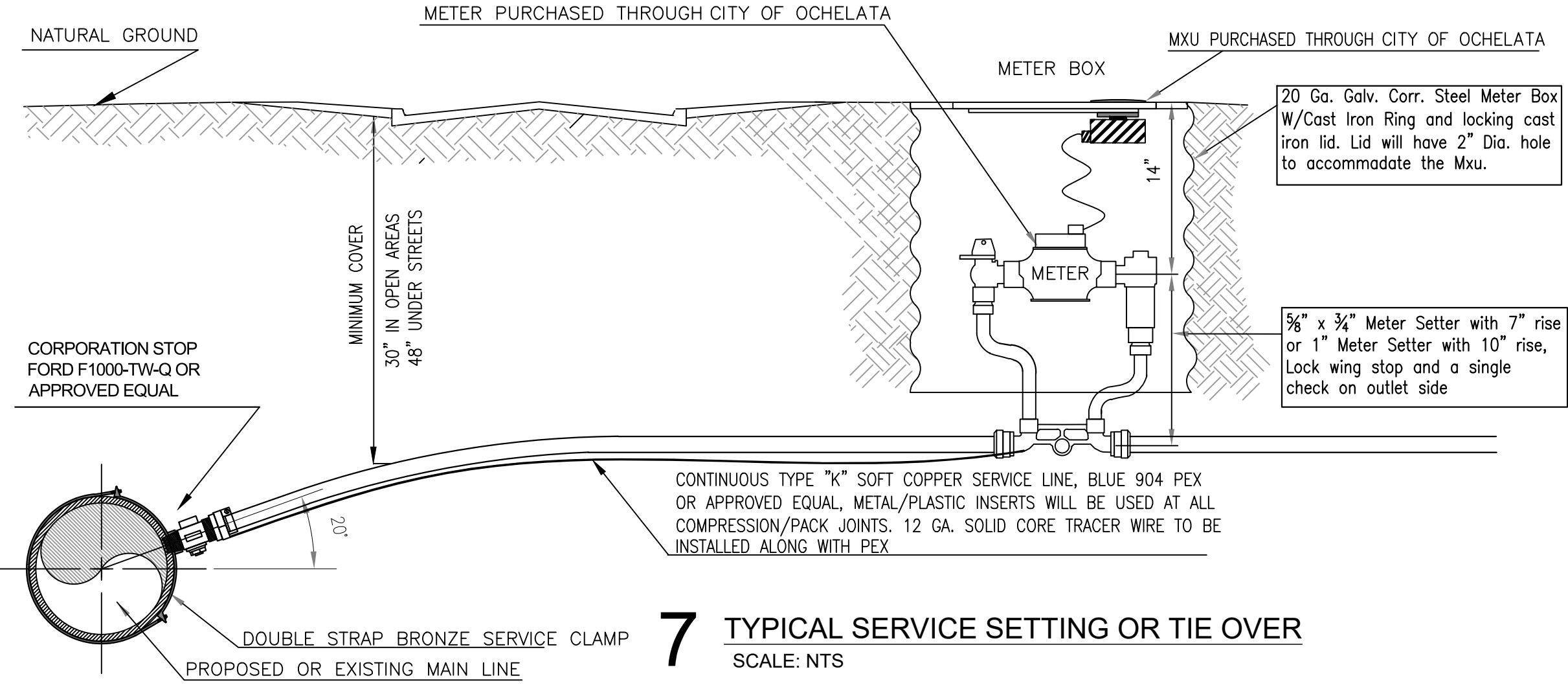


6 TYPICAL THRUST BLOCKING
SCALE: NTS

THRUST BLOCK BEARING AREAS & CONCRETE VOLUMES								
Pipe Size	90 Bend		45 Bend		22.5 Bend		Plug/Tee	
	SF	CF	SF	CF	SF	CF	SF	CF
2.0	0.47	0.50	0.25	0.50	0.13	0.50	0.66	0.50
4.0	1.87	0.99	1.01	0.54	0.51	0.50	2.64	1.40
6.0	4.20	1.98	2.27	1.07	1.16	0.55	5.94	2.80
8.0	7.46	4.48	4.04	2.43	2.06	1.24	10.56	6.34

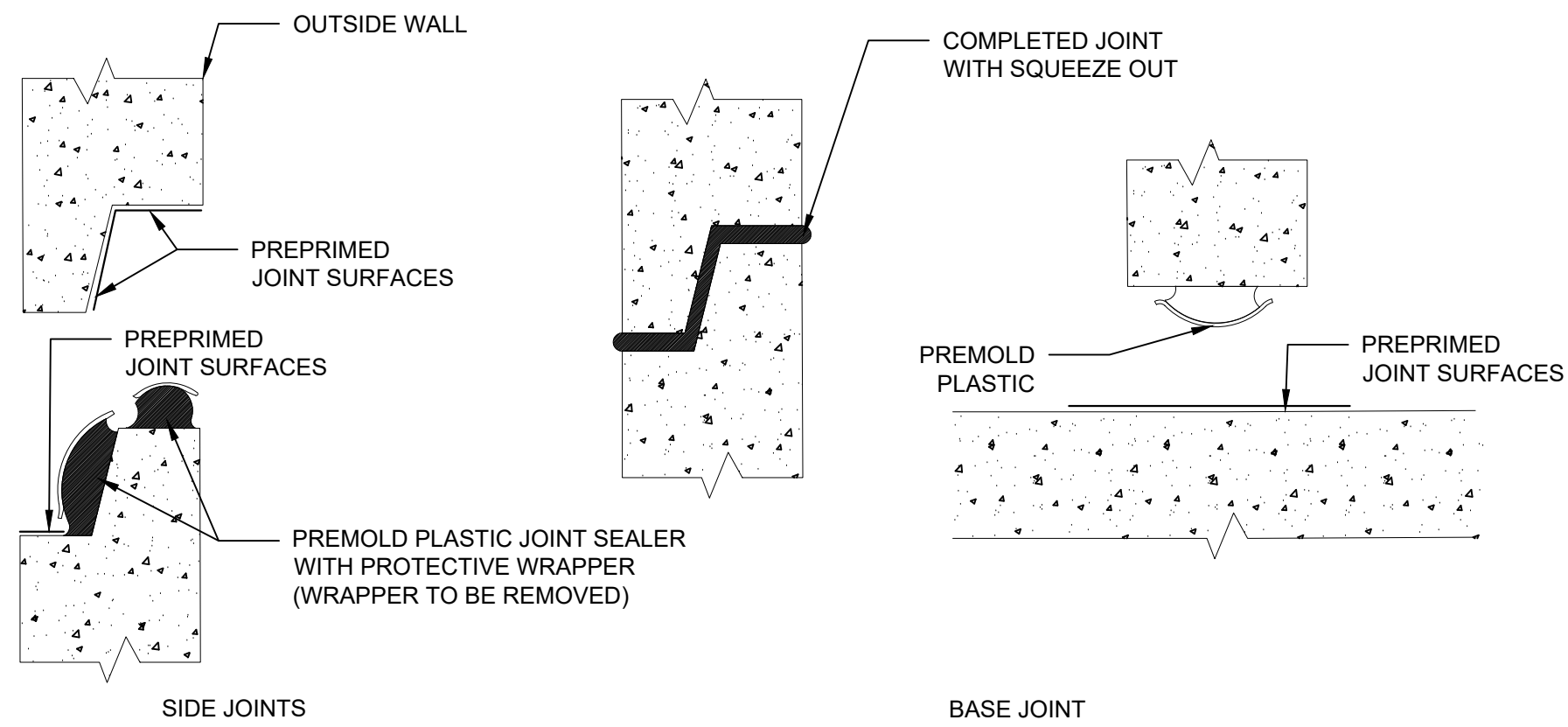
TABLE IS BASED ON 2100PSI INTERNAL PRESSURE AND 1000PSF ALLOWABLE SOIL BEARING PRESSURE. VALUES ARE APPROXIMATE AND ARE THE MINIMUMS ALLOWED. THRUST BLOCKS SHALL BEAR AGAINST UNDISTURBED SOIL.

THRUST BLOCK NOTES:
1. USE 3,000PSI CONCRETE FOR ALL BLOCKING.
2. ALL BEARING AREAS SHALL BE ON UNDISTURBED EARTH.
3. BLOCKING SHALL BE PLACED SO THAT PIPE AND FITTING WILL BE ACCESSIBLE FOR REPAIR.
4. USE THRUST BLOCKS FOR CHANGES IN DIRECTION OF 11 1/4" OR GREATER (I.E. TEES, BENDS, AND CROSSES) CHANGES IN SIZE (I.E. REDUCERS), STOPS (I.E. PLUGS), VALVES AND HYDRANTS WHERE THRUST DEVELOPS WHEN CLOSED.
5. RESTRAINED JOINT SYSTEMS (MEGALUGS), AS WELL AS THRUST BLOCKING, SHALL BE INSTALLED ON ALL VERTICAL BENDS.



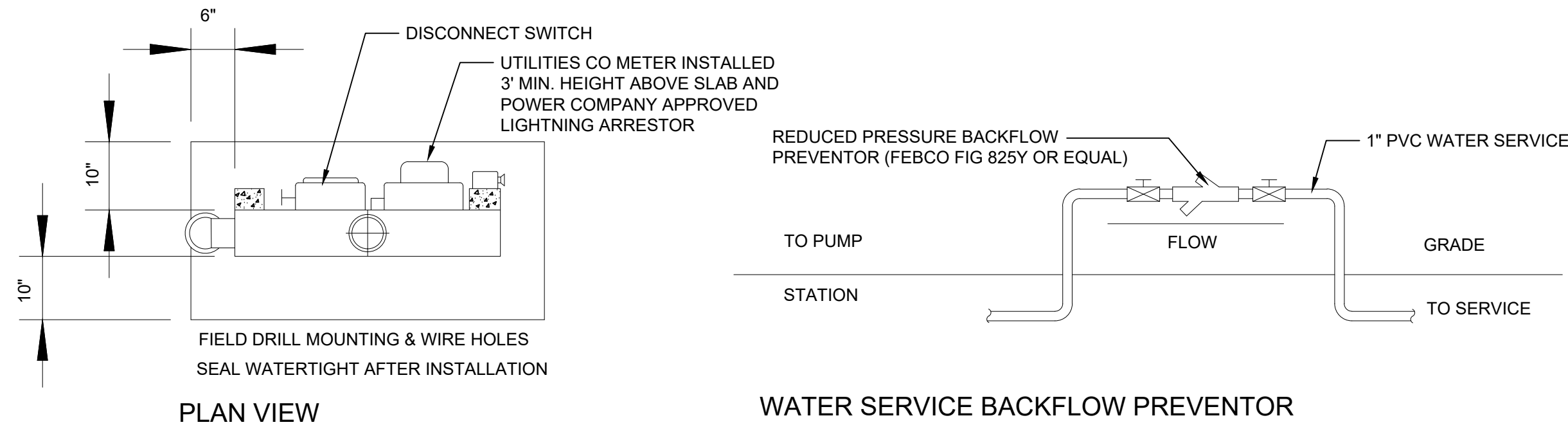
7 TYPICAL SERVICE SETTING OR TIE OVER
SCALE: NTS

Z:\2340348 CN pre-con Site 7. OchelataDwg\PRODUCTION\2340348 details.dwg PLOT:11/10/2023 2:44:13 PM ORIG SIZE:24"X36"



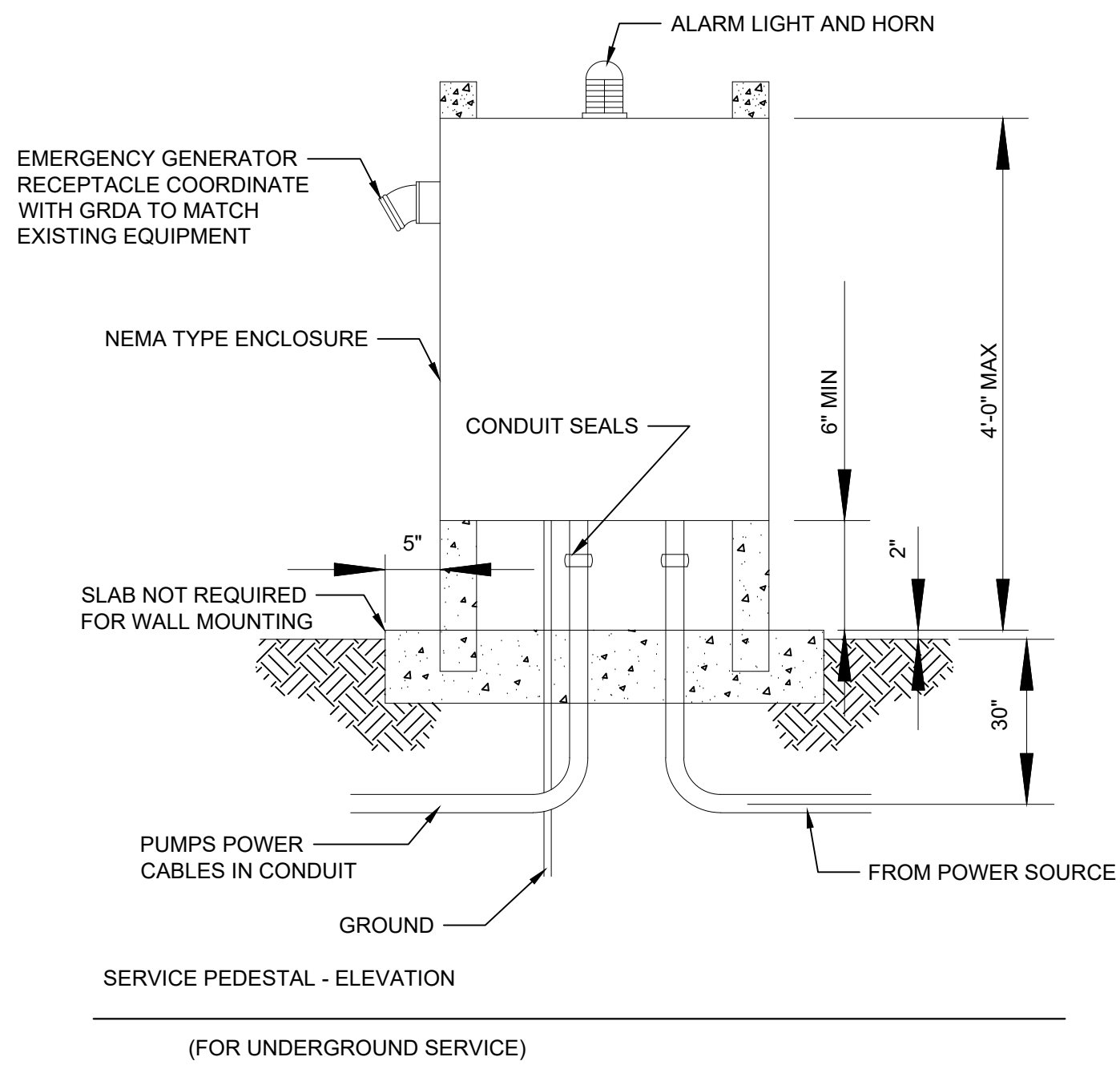
3 JOINT DETAILS

SCALE: NTS



PLAN VIEW

WATER SERVICE BACKFLOW PREVENTOR



2 CONTROL BOX

SCALE: NTS

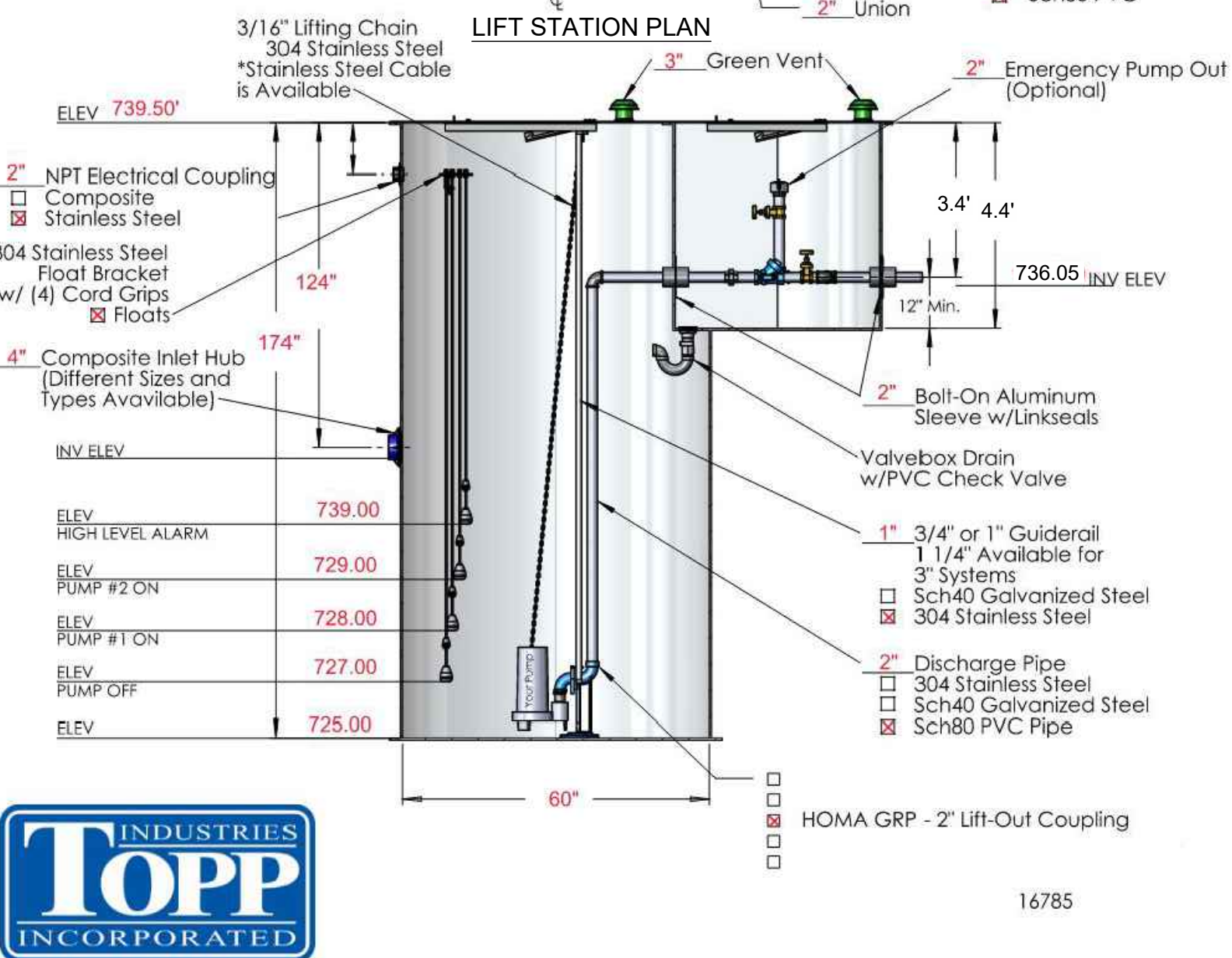
PUMP INFORMATION

Model NO: **HOMA GRP 26/1**
Rating: **80** GPM **23** TDH
Motor: **3** HP **3550** RPM
Elec: **1** PH **60** HZ **230** V
Elec: **12** FL AMPS

DISCHARGE PIPE

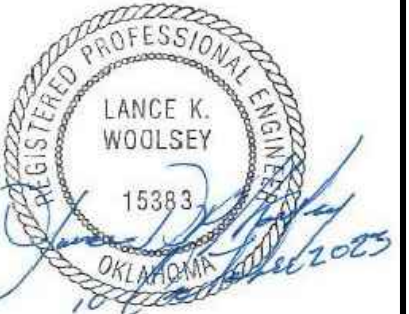
☐ 1-1/4"
☒ 1-1/2"
☐ 2"
☐ 3"

Anti-Floatation Flange
Fiberglass Encapsulated
ASTM A-36 Steel



1 LIFT STATION SECTION

SCALE: NTS



CHEROKEE NATION OCHELATA OK

OCHELATA, OKLAHOMA

REV	DESCRIPTION	DATE
1	100% CD	09/15/23
DATE	10/10/23	
PROJECT NO.	2340348	
SHEET NAME	LIFTSTATION DETAILS	
SHEET NO.	C804	