

Symbol Legend

- Electric Meter
- Gas Meter
- Gas Valve
- Irrigation Control Valve
- Water Meter
- Water Valve
- Water Valve Vault
- Blowoff Hydrant Assembly
- Fire Hydrant
- Storm Sewer Manhole
- Sanitary Sewer Manhole
- Communication Manhole
- Cleanout
- Power Pole
- Guy Anchor
- Light Pole
- Traffic Signal Pole
- Telephone Pedestal
- Sign
- Mailbox
- Bench Mark
- Boring
- Survey Control Point
- Property Pin
- Deciduous Tree
- Deciduous Tree
- Coniferous Tree
- Bush
- Treeline
- Corrugated Metal Pipe
- Reinforced Concrete Pipe
- Elec Underground Existing
- Elec Underground Proposed
- Elec Overhead Existing
- Elec Overhead Proposed
- Tele/Comm Underground Existing
- Tele/Comm Underground Proposed
- Tele/Comm Overhead Existing
- Tele/Comm Overhead Proposed
- Fiberoptic Existing
- Fiberoptic Proposed
- Natural Gas Existing
- Natural Gas Proposed
- Water Line Existing
- Water Line Proposed
- Existing Stormwater Line
- Sanitary Sewer Existing
- Sanitary Sewer Proposed
- Property Line
- Ditch Line/Swale
- Fence Line
- Right-Of-Way (ROW)
- Existing Utility Line Easement
- Survey Basement Line (S.B.L.)
- Flood Plain Boundary
- Temporary Silt Fence
- Major Contours Existing
- Major Contours Proposed
- Minor Contours Existing
- Minor Contours Proposed
- Centerline/Breakline

CHEROKEE NATION ENTERTAINMENT

PLANS FOR PROPOSED  
ROADWAY AND GRADING PLAN

FOR  
CHEROKEE SPRINGS PLAZA  
OG&E SUBSTATION  
CHEROKEE COUNTY, OKLAHOMA

SHEET INDEX

1. COVER SHEET
2. CONSTRUCTION NOTES
3. SURVEY DATA
4. EROSION CONTROL PLAN
5. GRADING PLAN
6. - 7. ROADWAY PLAN AND PROFILE
8. SUBSTATION DRIVEWAY PLAN
9. SUBSTATION DRIVEWAY PROFILES

2009 ODOT STANDARDS

- SSS-1 SOLID SLAB SODDING
- TSC1-3 TEMPORARY SEDIMENT CONTROLS
- TSD-2 TEMPORARY SILT DIKE
- ASCD-5 ASPHALT SURFACING CONSTRUCTION DETAILS
- PSE-1 PAVEMENT SAFETY EDGE
- PCES-4 PREFABRICATED CULVERT END SECTIONS
- SPI-4 STANDARD PIPE INSTALLATION
- SPB-1 STANDARD PIPE BEDDING
- FHTMPP-1 FILL HEIGHT TABLES

PREPARED BY



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C.A. NO.: 1371 EXPIRES 6/30/20  
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DWAIN GARNER, P.E.  
OKLAHOMA REG. P.E. NO. 18300



COVER SHEET

SHEET NUMBER

1 OF 9

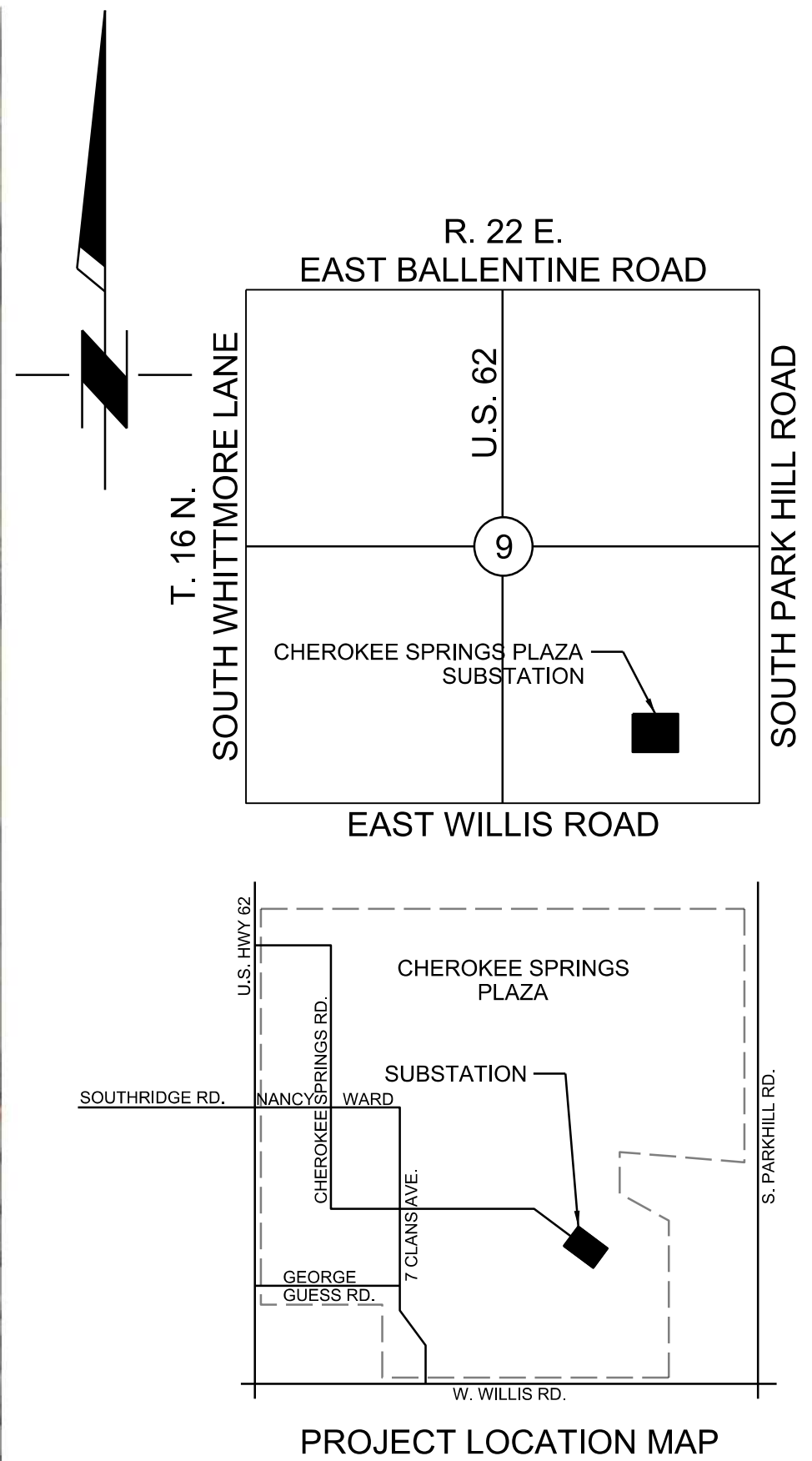
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GOVERNING STANDARDS, SPECIFICATIONS, AND CODES

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY FOR STORMWATER POLLUTION  
PREVENTION AND WATER STANDARD SPECIFICATIONS  
OKLAHOMA DEPARTMENT OF TRANSPORTATION 2009 STANDARD SPECIFICATIONS  
OG&E ELECTRIC SERVICES STANDARDS AND SPECIFICATIONS



		DATE: 6/2018	CGA ENGINEERS, INC.
		18-59-005-07	
		SURVEY BY: ADS	
		DRAWN BY: SCB	
		DESIGN BY: DMG	
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		C.A. NO.: 1371 - EXPIRES: 6/30/20	
REV.	DATE		





GENERAL:

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 SWEEPED 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.

THE CONTRACTOR SHALL PROVIDE DUST CONTROL MEASURES IN ACCORDANCE WITH LOCAL AUTHORITIES.

ALL STREET SURFACES, DRIVEWAYS, CULVERTS, ROADSIDE DRAINAGE DITCHES AND OTHER STRUCTURES THAT ARE DISTURBED OR DAMAGED AS A RESULT OF CONSTRUCTION SHALL BE REPLACED WITH LIKE KIND TO THE SATISFACTION OF THE OWNER.

UNLESS SPECIFIED OTHERWISE, ALL MATERIAL AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY STANDARDS AND 2009 OKLAHOMA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS FOR HIGHWAY CONSTRUCTION AND/OR THE APPROPRIATE LOCAL AUTHORITIES.

ALL ELEVATIONS IN PAVED AREAS ARE TOP OF FINISHED PAVEMENT UNLESS OTHERWISE NOTED.

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 THE ENGINEER BEFORE ANY UTILITY RELOCATION.

NO DIMENSION MAY BE SCALED. REFER UNCLEAR ITEMS TO THE ENGINEER FOR INTERPRETATION.

ALL FEATURES OF THIS PROJECT INCLUDING, BUT NOT LIMITED TO, SIDEWALKS AND CURB RAMPS SHALL COMPLY WITH THE AMERICAN DISABILITIES ACT (ADA) ACCESSIBILITY GUIDELINES, AND INTERIM FINAL RULES FOR PUBLIC RIGHT-OF-WAY, PUBLISHED IN THE FEDERAL REGISTER, SEPTEMBER 15, 2010. WHERE SPATIAL LIMITATIONS OR EXISTING FEATURES WITHIN THE LIMITS OF THE PROJECT PREVENT FULL COMPLIANCE WITH THIS ACT, 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 THE ADA WITHOUT PRIOR, WRITTEN PERMISSION FROM THE ENGINEER. ANY WORK WHICH IS NOT PERFORMED WITHIN THE GUIDELINES OF THE ADA, FOR WHICH THE CONTRACTOR DOES NOT HAVE WRITTEN APPROVAL, SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.

CROSS SLOPES FOR SIDEWALKS SHALL NOT EXCEED 1:50  
RAMP SLOPES SHALL NOT EXCEED 1:12  
GRADES EXCEEDING 5% WILL BE TREATED AS A RAMP SLOPE

FINISHED SUBGRADE SURFACE SHALL NOT BE MORE THAN 0.1 FEET ABOVE OR BELOW ESTABLISHED FINISHED SUBGRADE ELEVATIONS AND ALL GROUND SURFACES SHALL VARY UNIFORMLY BETWEEN INDICATED ELEVATIONS. FINISHED DITCHES SHALL BE GRADED TO ALLOW FOR PROPER DRAINAGE WITHOUT PONDING AND IN A MANNER THAT WILL MINIMIZE EROSION.

ANY WORK NOT INCLUDED WITH A BID SCHEDULE SHALL BE CONSIDERED INCIDENTAL TO THE OTHER ITEMS OF WORK.

OKIE:

ALL CONTRACTORS SHALL NOTIFY UTILITY COMPANIES AND GOVERNMENT AGENCIES IN WRITING OF THE INTENT TO EXCAVATE NO LESS THAN 72 HOURS PRIOR TO SUCH EXCAVATION (EXCLUSIVE OF SATURDAYS, SUNDAYS AND HOLIDAYS) AND CALL "OKIE" AT 1-800-522-6543.

EXISTING LOCATIONS SHOWN SHALL BE FIELD VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION. LOCATIONS OF UNDERGROUND UTILITIES ON THE DRAWINGS ARE APPROXIMATE ONLY AND BASED ON ACTUAL FIELD LOCATIONS OF VISIBLE STRUCTURES AND PLAN COMPUTATIONS.

EROSION CONTROL NOTES:

ALL EROSION CONTROL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE STORM WATER POLLUTION PREVENTION PLAN, PROVIDED BY THE CIVIL ENGINEER, AND IN ACCORDANCE WITH O.D.O.T. STANDARDS AND SPECIFICATIONS.

IF ANY DISTURBED EARTH SURFACES WHICH ARE NOT PAVED OR BUILDING PADS ARE NOT COVERED WITH PERMANENT EROSION CONTROL WITHIN THE 14th DAY OF WORK BEING COMPLETED IN THAT AREA, TEMPORARY EROSION CONTROL SHALL BE IMPLEMENTED.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A STABILIZED CONSTRUCTION ENTRANCE, AND FOR CLEANING OF VEHICLE WHEELS IN ACCORDANCE WITH THE O.D.O.T. STANDARDS AND SPECIFICATIONS.

SILT FENCES: PLACEMENT OF SILT FENCES SHALL BE AS SHOWN ON THE DEMOLITION & EROSION CONTROL PLAN. FENCING WHICH BECOMES DAMAGED SHALL BE REPLACED PROMPTLY. DEPOSITS OF SILT WHICH BUILD UP BEHIND DIKES MAY BE DISKED INTO 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.

A VEGETATIVE BUFFER ZONE MUST BE RETAINED OR SUCCESSFULLY ESTABLISHED/PLANTED AROUND THE DISTURBED AREA.

TEMPORARY EROSION CONTROL:

ALL DISTURBED EARTH SURFACES WHICH ARE NOT PAVED OR BUILDING PADS SHALL BE LANDSCAPED OR REVEGETATED WITH A TEMPORARY COVER, DEPENDING ON THE PLANTING SEASON, AS OUTLINED BELOW.

PLANT TYPE	PER ACRE	PER 1000 SQ.FT.	PLANTING DATE	DEPTH OF SEEDING
ANNUAL RYEGRASS	40 LBS.	0.9 LBS.	09/05-11/30	1/4 INCH
ELBON RYE	2 BU.	3.0 LBS.	08/15-11/30	2 INCH
WHEAT	2 BU.	3.0 LBS.	08/15-11/30	2 INCH
OATS	3 BU.	2.5 LBS.	08/15-11/30	2 INCH
SORGHUMS	60 LBS.	1.4 LBS.	03/01-09/15	2 INCH
SUDAN GRASS	60 LBS.	0.9 LBS.	04/01-09/15	2 INCH

PRIOR TO SEEDING, NEEDED EROSION CONTROL PRACTICES SHALL BE INSTALLED.

THE SUBGRADE SHALL BE LOOSENEED EVENLY TO A DEPTH OF 2 TO 3 INCHES AND 10-20-10 FERTILIZER (10 LBS. PER 1000 SQ. FT. OR 450 LBS. PER ACRE) SHALL BE MIXED WITH THE LOOSENEED SOIL BY DISKING OR OTHER SUITABLE MEANS.

SOIL SHALL BE TESTED AND LIME TREATED, IF REQUIRED, BY TESTING FIRM.

SEEDS MAY BE DRILLED OR BROADCAST UNIFORMLY.

SEEDING IMPLEMENTS SHOULD BE USED AT RIGHT ANGLES TO THE SLOPE TO MINIMIZE EROSION.

MULCH SHALL BE USED ON ALL SLOPES GREATER THAN 5 PERCENT OR AS NEEDED.

THE AREA SHALL BE WATERED DAILY OR AS OFTEN AS NECESSARY TO MAINTAIN ADEQUATE SOIL MOISTURE UNTIL THE PLANTS EXCEED 1 INCH IN HEIGHT.

PERMANENT EROSION CONTROL PRACTICES:

ALL DISTURBED AREAS SHALL BE SOLID SLAB SODDED IN ACCORDANCE WITH THE OKLAHOMA DEPARTMENT OF TRANSPORTATION 2009 STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, SECTION 230.

GENERAL DEMOLITION:

DISPOSAL OF CLEARED TREES AND VEGETATION SHALL BE PERFORMED IN A MANNER THAT MEETS ALL LOCAL, STATE AND FEDERAL CODES.

ALL UTILITIES THAT ARE ABANDONED IN PLACE SHALL BE PLUGGED WITH CONCRETE SUCH THAT THE CONCRETE PLUG FILLS UP A MINIMUM OF 2 FEET OF PIPE ON EACH END.

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 APPROVED CHANGES INCURRED FOLLOWING OWNERS APPROVAL OF THE INITIAL DRAWINGS. THESE CHANGES MAY BE INITIATED FROM FIELD CONDITIONS OR CHANGES MADE BY THE DESIGN ENGINEER OR THE OWNER. EXCEPT FOR MINOR FIELD ADJUSTMENTS, ALL CHANGES SHALL BE REVIEWED AND AGREED TO BY THE DESIGN ENGINEER AND THE OWNER PRIOR TO FINAL APPROVAL OF THE PROJECT. THE CONTRACTOR SHALL SUBMIT THE WORKING DRAWINGS TO THE ENGINEER OF RECORD (DESIGN ENGINEER) AFTER FINAL INSPECTION OF PROJECT TO SERVE AS A BASIS FOR DEVELOPMENT OF FINAL AS-BUILT RECORD DRAWINGS.

TRAFFIC CONTROL:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER BARRICADES, LIGHTS, AND SIGNING WITHIN THE LIMITS OF CONSTRUCTION. ALL CONSTRUCTION SIGNING WILL BE DONE ACCORDING TO STANDARDS SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES,(CURRENT EDITION).

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ALL ACCESS TO THE BUILDINGS, BOTH PEDESTRIAN AND VEHICULAR, IS MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT. AN ADA ACCESSIBLE PATH TO THE BUILDINGS IS REQUIRED AT ALL TIMES. THE CONTRACTOR SHALL COORDINATE WITH OWNER TO ENSURE ACCESS TO THE BUILDINGS IS MAINTAINED DURING BUSINESS HOURS. IF A TEMPORARY ACCESS PATH IS NEEDED, THE PATH SHALL BE A HARD SURFACE AND PROTECTED FROM CONSTRUCTION ACTIVITIES.

THE CONTRACTOR SHALL FURNISH AND INSTALL SUCH LIGHTS, SIGNS, BARRICADES, AND PROVIDE FLAGGERS NECESSARY FOR THE CONTROL, SAFETY, AND MAINTENANCE OF TRAFFIC.

ALL CONSTRUCTION WORK ZONE SIGNS SHALL HAVE FLUORESCENT SHEETING. THE FLUORESCENT SHEETING SHALL MEET THE REQUIREMENTS OF ASTM D4956 (LATEST REVISION)

ANY DAMAGE TO A FINISHED OR EXISTING SURFACE RESULTING FROM THE CONTRACTORS NEGLIGENCE IN THE REMOVAL OF CONSTRUCTION ZONE PAVEMENT MARKERS OR CHANNELIZING DEVICES AND THE BITUMINOUS ADHESIVE USED IN THEIR INSTALLATION, SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE AND TO THE SATISFACTION OF THE ENGINEER.

CONSTRUCTION NOTES:

ELEVATION ABBREVIATIONS USED ON PLACE ARE AS FOLLOWS:  
EG = EXISTING GRADE FL = FLOWLINE  
FG = FINISHED GRADE C.E.T. = CONCRETE END TREATMENT  
P.C.E.S. = PRECAST CONCRETE END SECTION  
HDPP = HIGH DENSITY POLYPROPYLENE

1. GRADING SHALL BE IN ACCORDANCE WITH OG&E STANDARDS A601 AND A601.1 FOR CLASS "B" FILLS COMPACTED TO 90% PROCTOR DENSITY.
2. SUBSTATION YARD GRAVEL SURFACING PER A604.
3. SLOPES TO BE APPROX. 0.5" PER 100'.
4. INSTALL SUBSTATION CONCRETE DRIVE PER A610, A610.1, AND A610.2.
5. CALL OKIE FOR EXISTING UTILITY LOCATIONS PRIOR TO CONSTRUCTION OPERATIONS.
6. WHERE THERE IS A CONFLICT BETWEEN OG&E SPECIFICATIONS AND THE ODOT 2009 SPECIFICATIONS, THE MORE STRICT SPECIFICATION WILL PREVAIL.

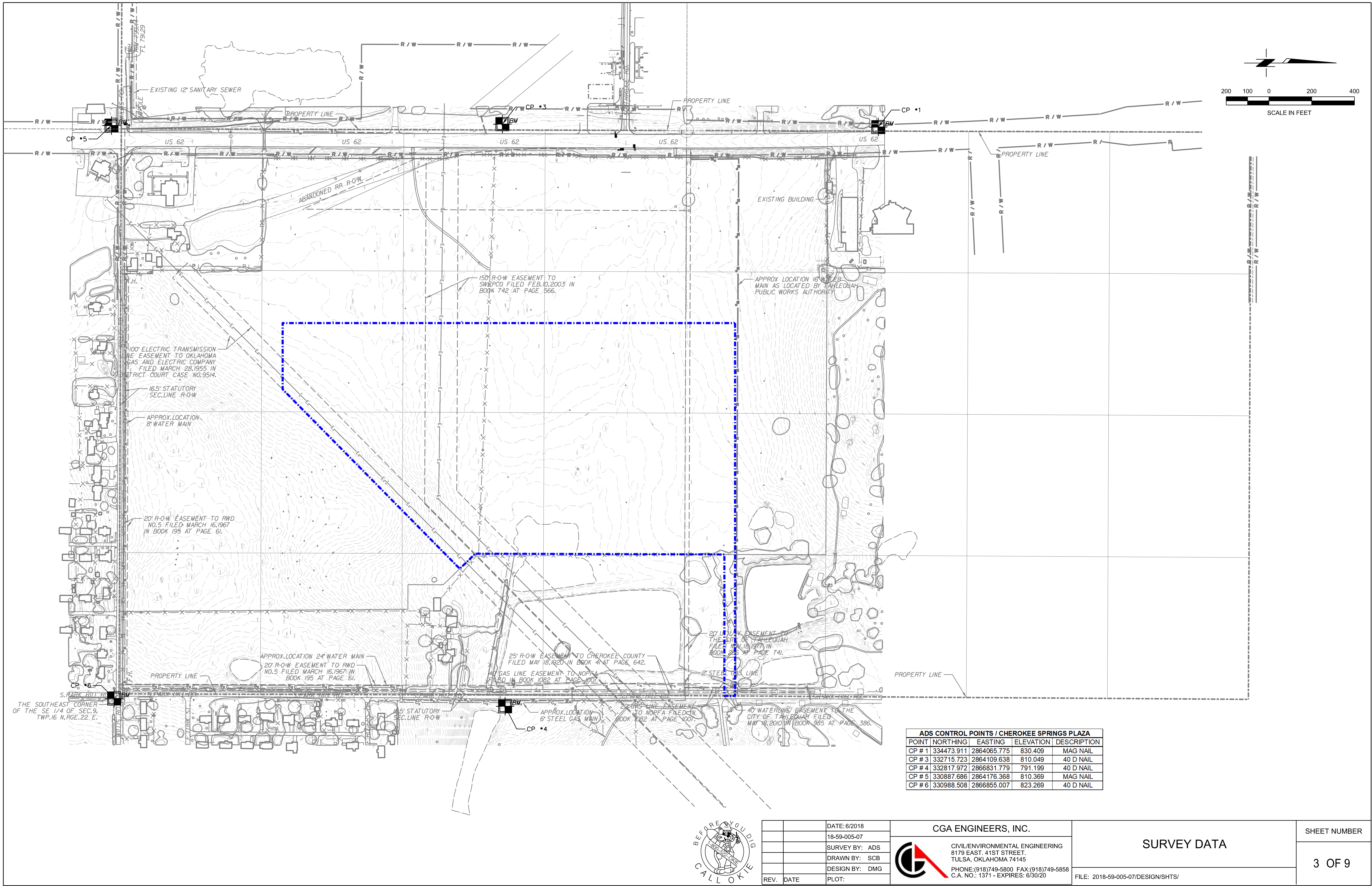


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		18-59-005-07
		SURVEY BY: ADS
		DRAWN BY: SCB
		DESIGN BY: DMG
REV.	DATE	PLOT: 1"-40'

CGA ENGINEERS, INC.	
	CIVIL/ENVIRONMENTAL ENGINEERING 8179 EAST 41ST STREET, TULSA, OKLAHOMA 74145
	PHONE:(918)749-5800 FAX:(918)749-5858 C.A. NO.: 1371 - EXPIRES: 6/30/20

CONSTRUCTION NOTES	SHEET NUMBER
	2 OF 9
FILE: 2018-59-005-07/DESIGN/SHTS/G-OG-E-SUB-GRADINGPLAN	





ADS CONTROL POINTS / CHEROKEE SPRINGS PLAZA				
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
CP # 1	334473.911	2864065.775	830.409	MAG NAIL
CP # 3	332715.723	2864109.638	810.049	40 D NAIL
CP # 4	332817.972	2866831.779	791.199	40 D NAIL
CP # 5	330887.686	2864176.368	810.369	MAG NAIL
CP # 6	330988.508	2866855.007	823.269	40 D NAIL



	DATE: 6/2018
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REV.	DATE
	PLOT:

CGA ENGINEERS, INC.



CIVIL/ENVIRONMENTAL ENGINEERING  
8179 EAST 41ST STREET.  
TULSA, OKLAHOMA 74145  
PHONE: (918) 749-5800 FAX: (918) 749-5858  
C.A. NO.: 1371 - EXPIRES: 6/30/20

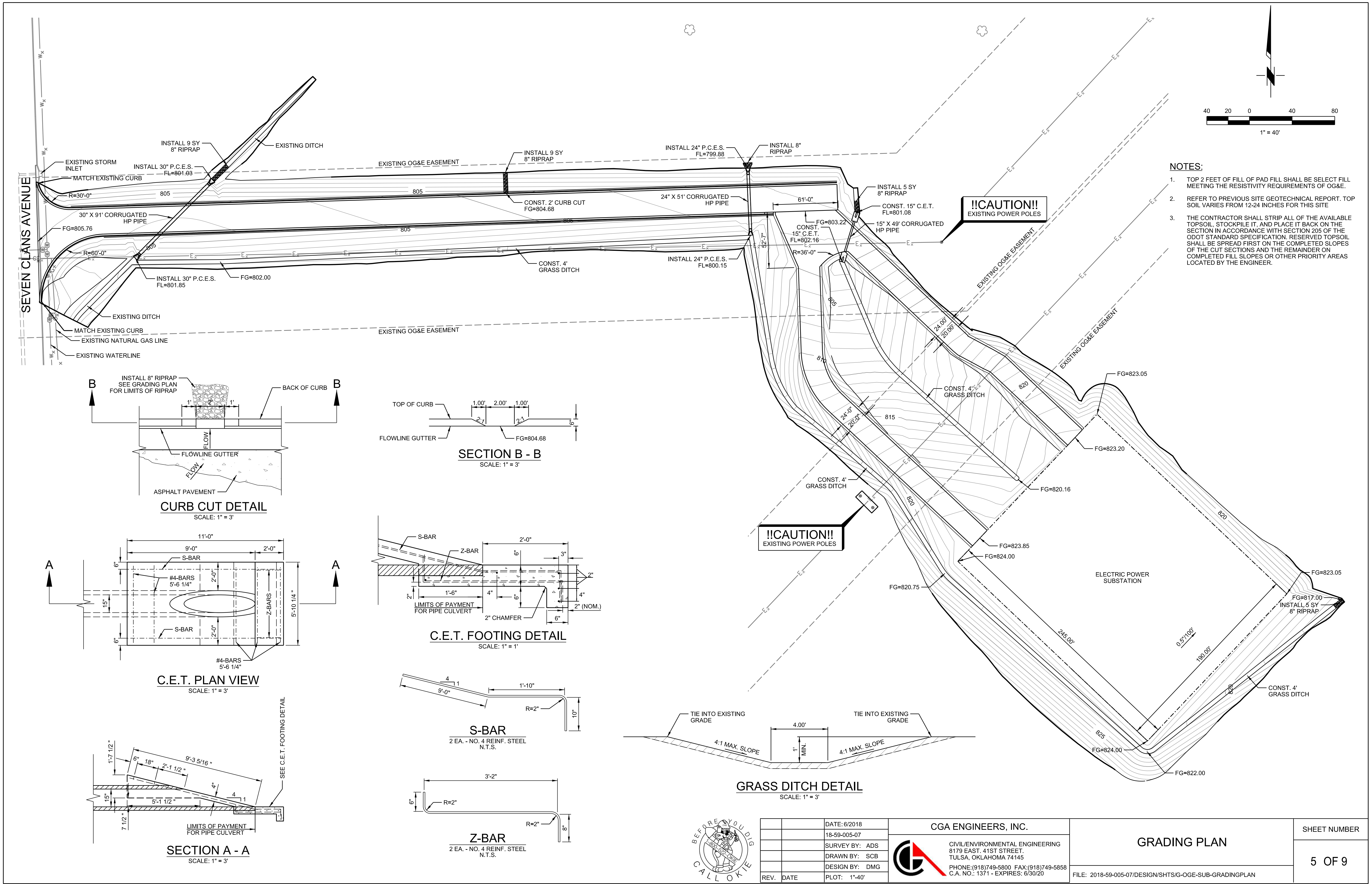
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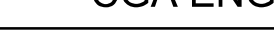
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3 OF 9



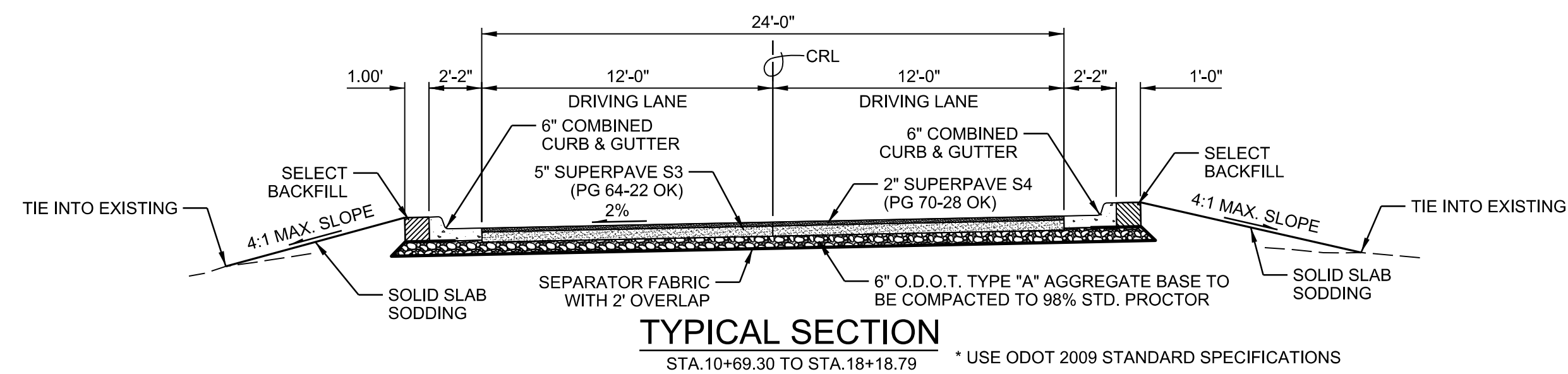
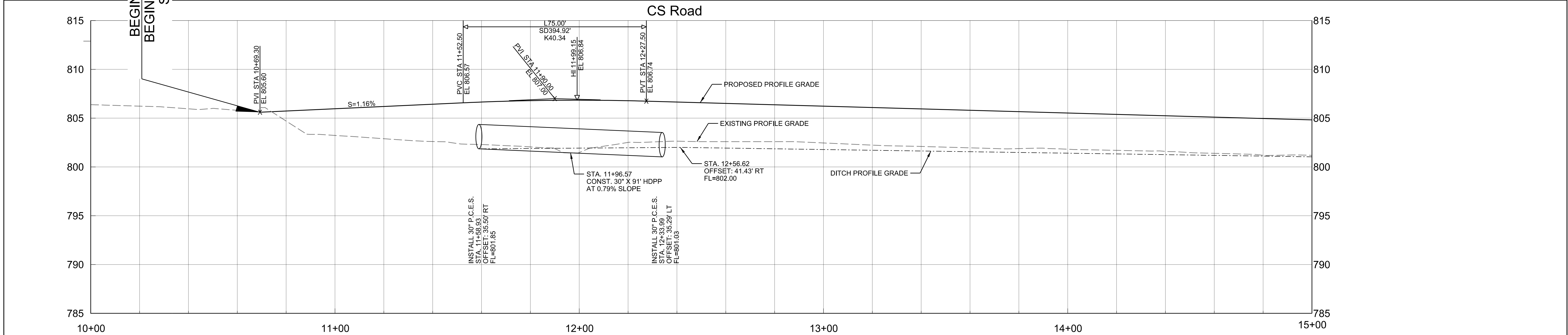
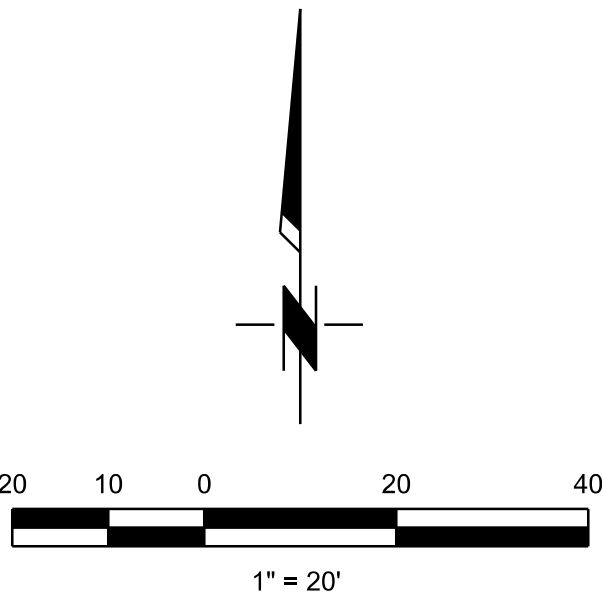
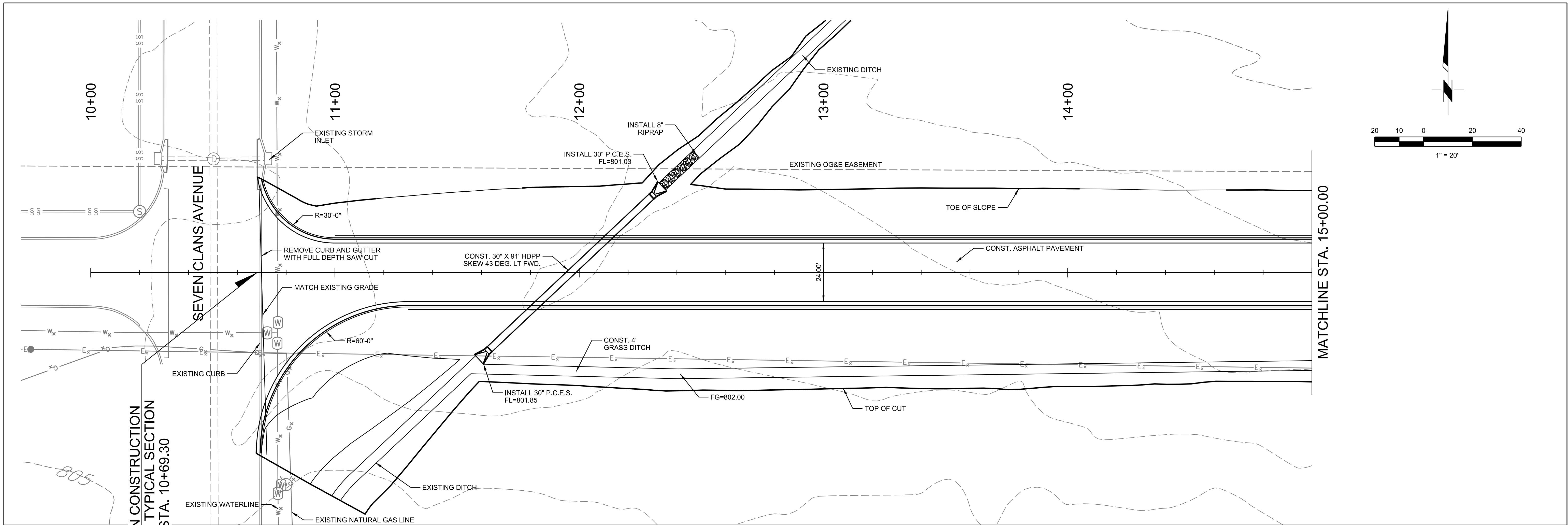








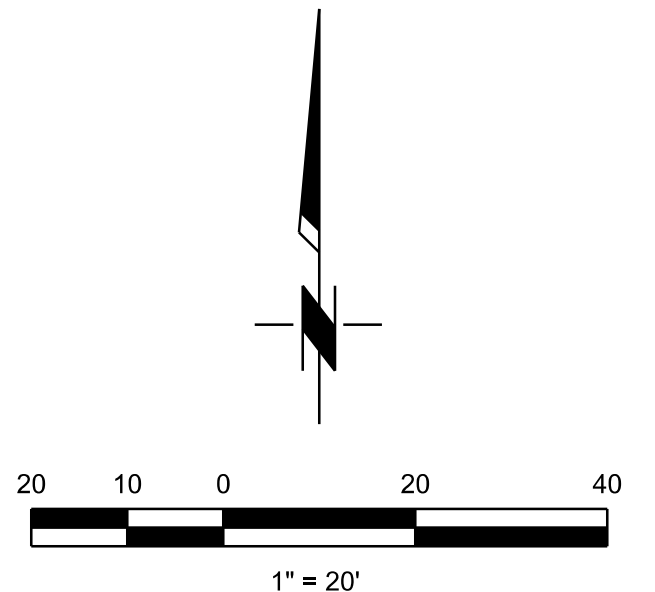
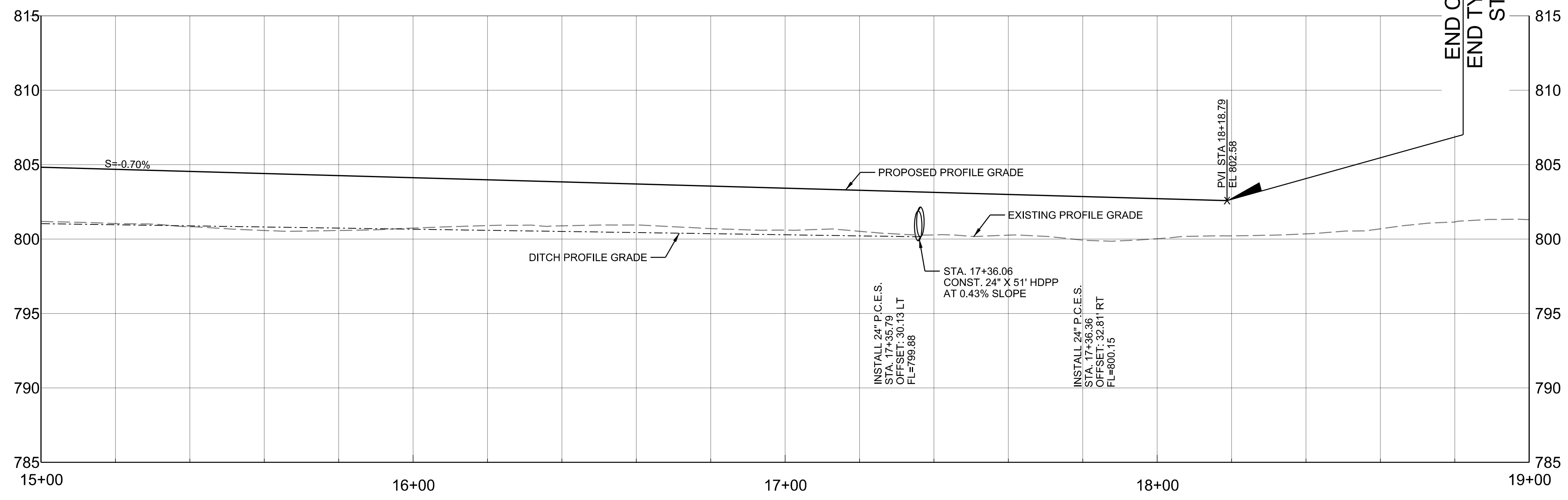
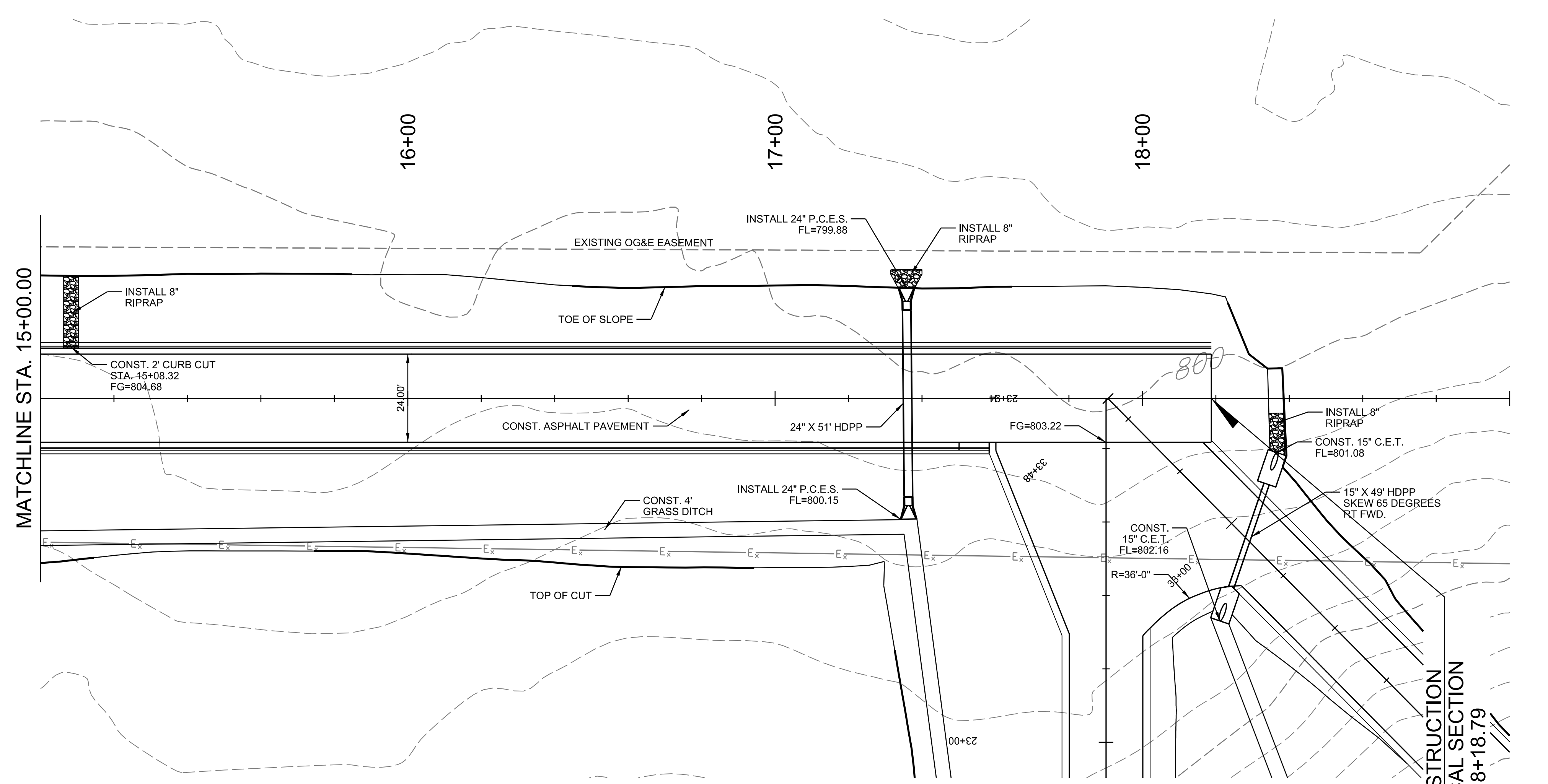
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		18-59-005-07				5 OF 9
		SURVEY BY: ADS				
		DRAWN BY: SCB				
		DESIGN BY: DMG				
REV.	DATE	PLOT: 1"=40'	FILE: 2018-59-005-07/DESIGN/SHTS/G-OG-E-SUB-GRADINGPLAN			






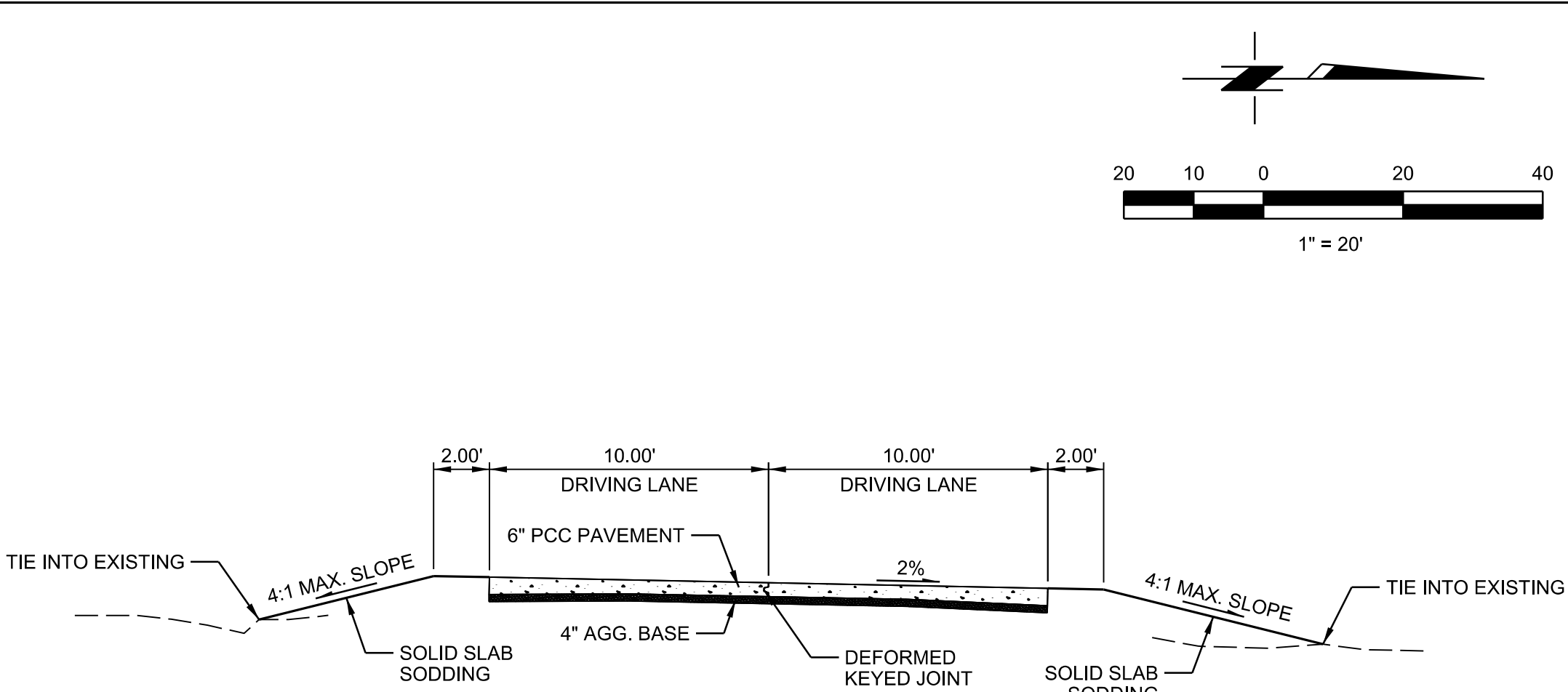
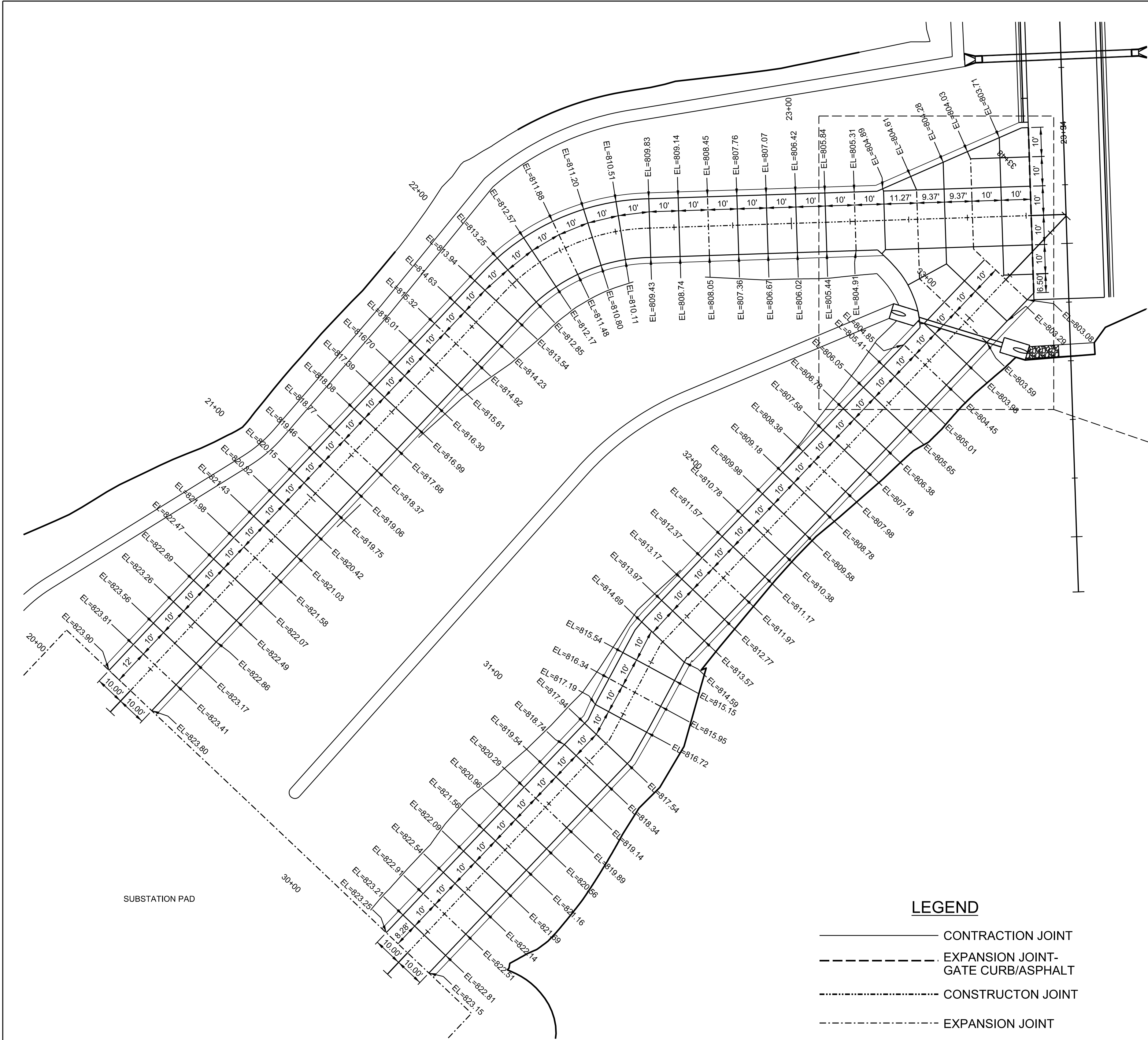
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		PLOT: 1" = 20'				





REV.	DATE	DATE: 6/2018	<div>CGA ENGINEERS, INC.</div> <div>            CIVIL/ENVIRONMENTAL ENGINEERING            8179 EAST 41ST STREET            TULSA, OKLAHOMA 74145            PHONE: (918) 749-5800 FAX: (918) 749-5858            C.A. NO.: 1371 - EXPIRES: 6/30/20         </div>	ROADWAY PLAN AND PROFILE	SHEET NUMBER
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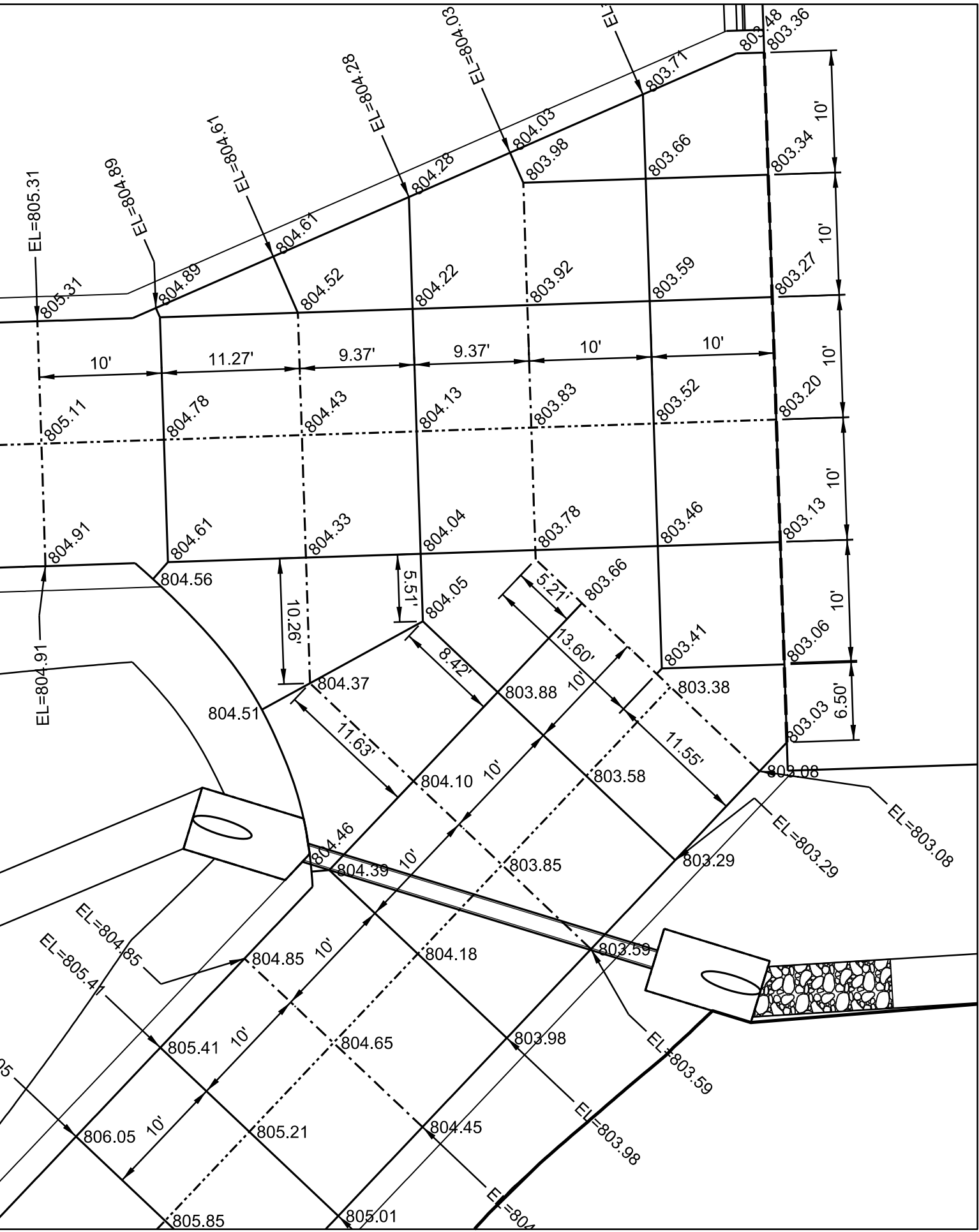


SUBSTATION DRIVEWAY TYPICAL SECTION

STA. 20+10.00 TO STA. 23+93.60  
STA. 30+10.00 TO STA. 33+29.03

- NOTES:
- USE OG&E STANDARDS AND SPECIFICATIONS.
  - CONCRETE FOR SUBSTATION DRIVE SHALL BE 4000 PSI COMPRESSIVE STRENGTH AND MEET THE REQUIREMENTS OF OG&E ELECTRIC SERVICES SPECIFICATION A610


- LEGEND
- CONTRACTION JOINT
  - EXPANSION JOINT- GATE CURB/ASPHALT
  - CONSTRUCTON JOINT
  - EXPANSION JOINT



SUBSTATION DRIVEWAY JOINT LAYOUT

1" = 10'



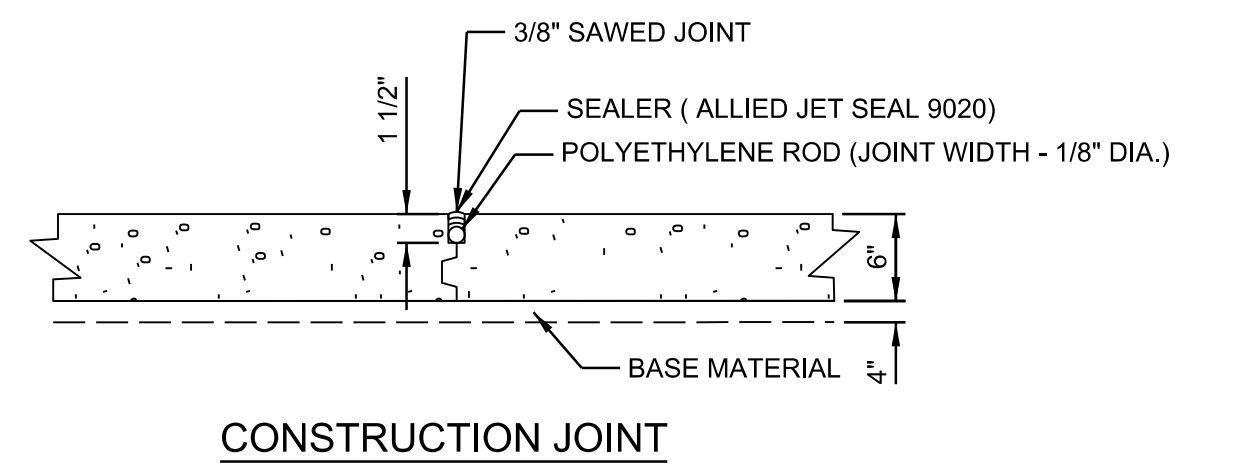
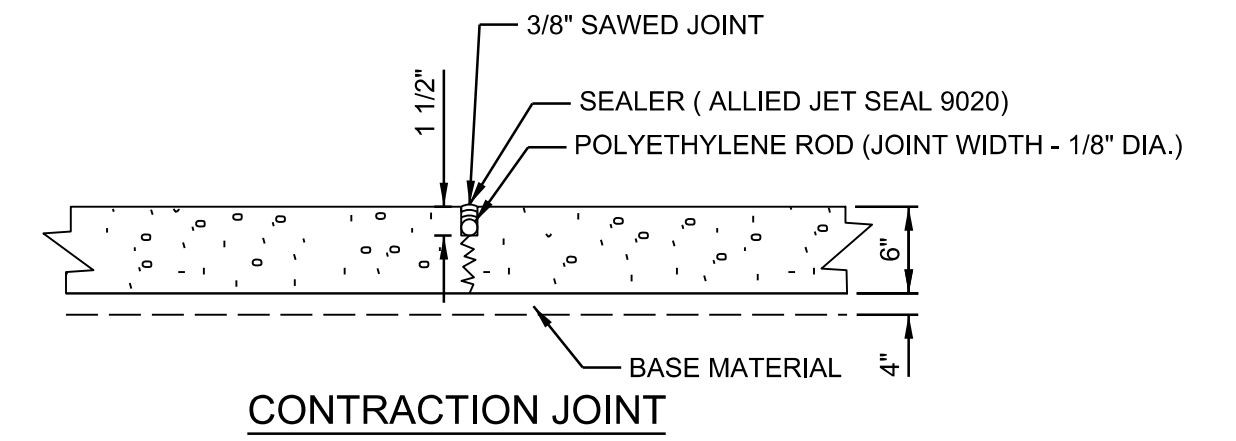
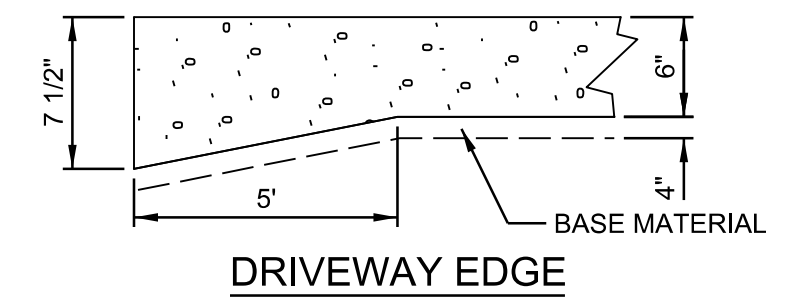
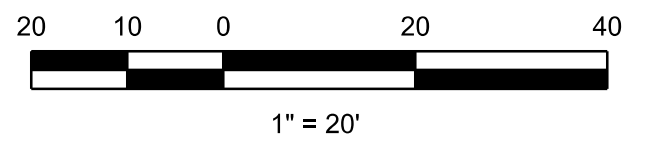
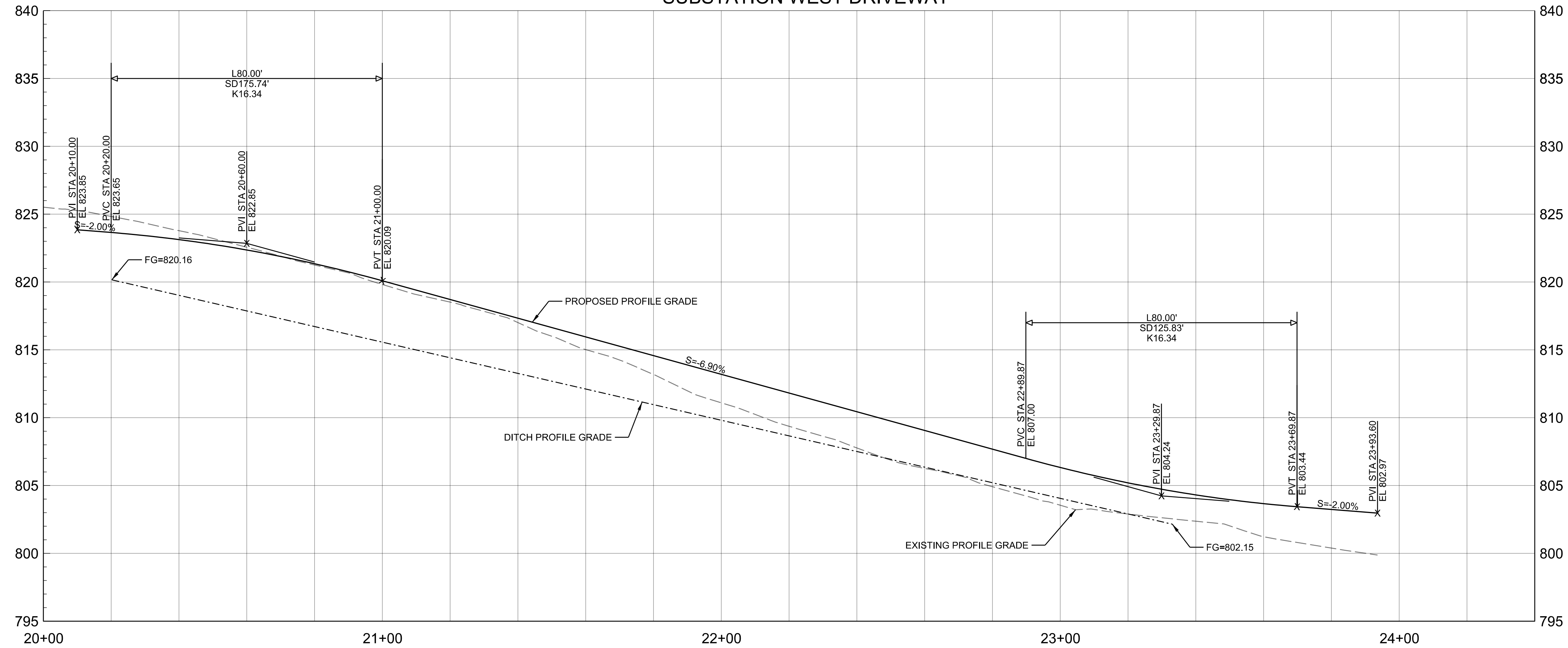
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SUBSTATION DRIVEWAY PLAN	SHEET NUMBER
	8 OF 9

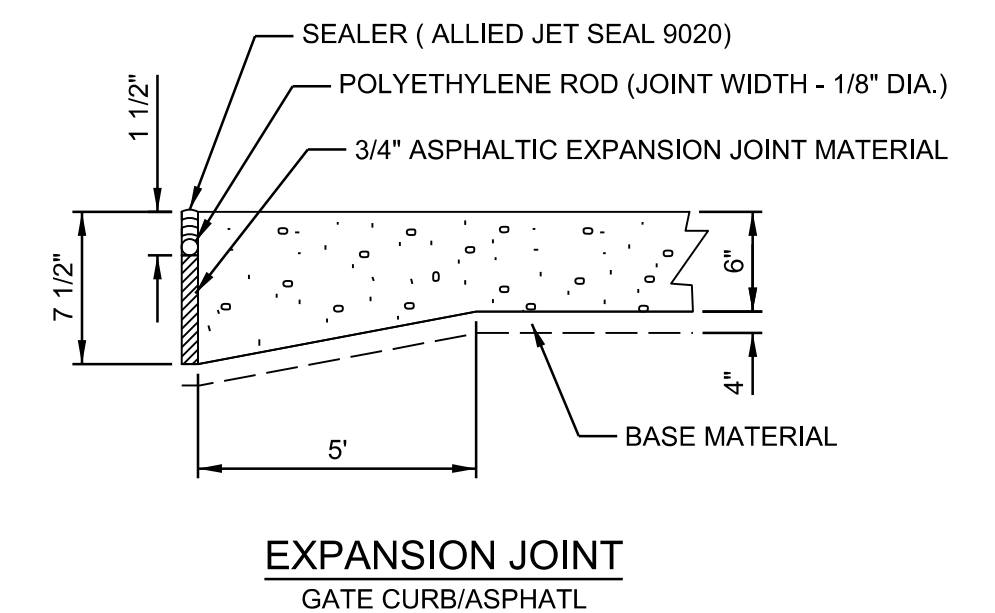
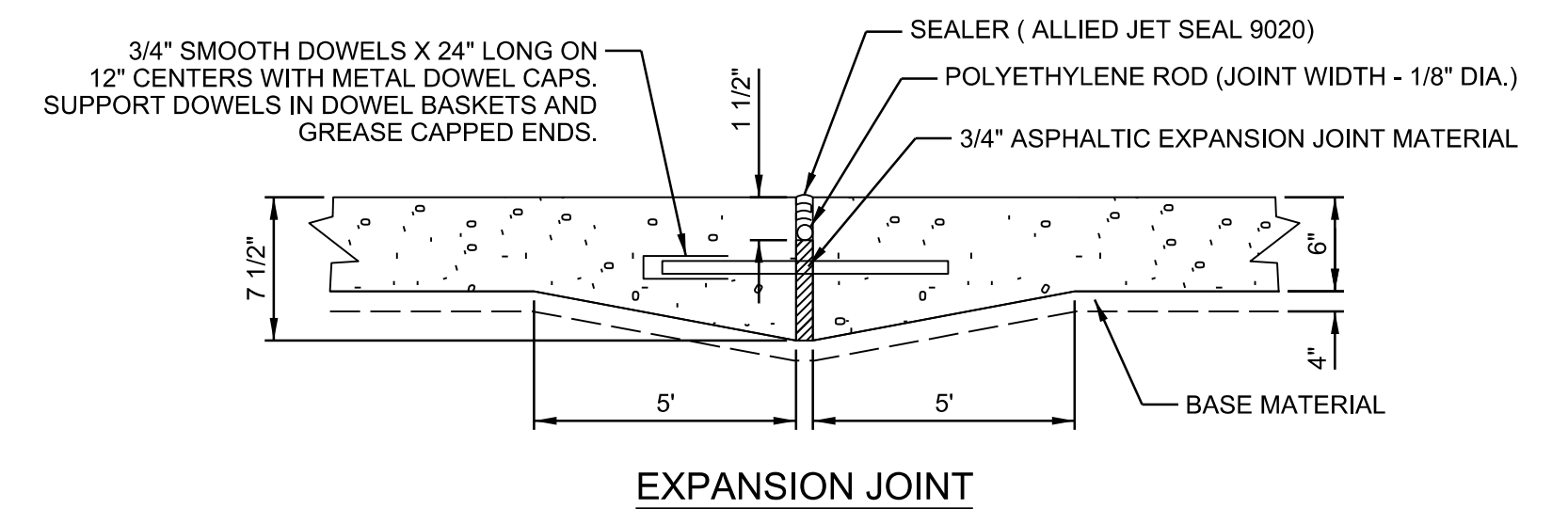
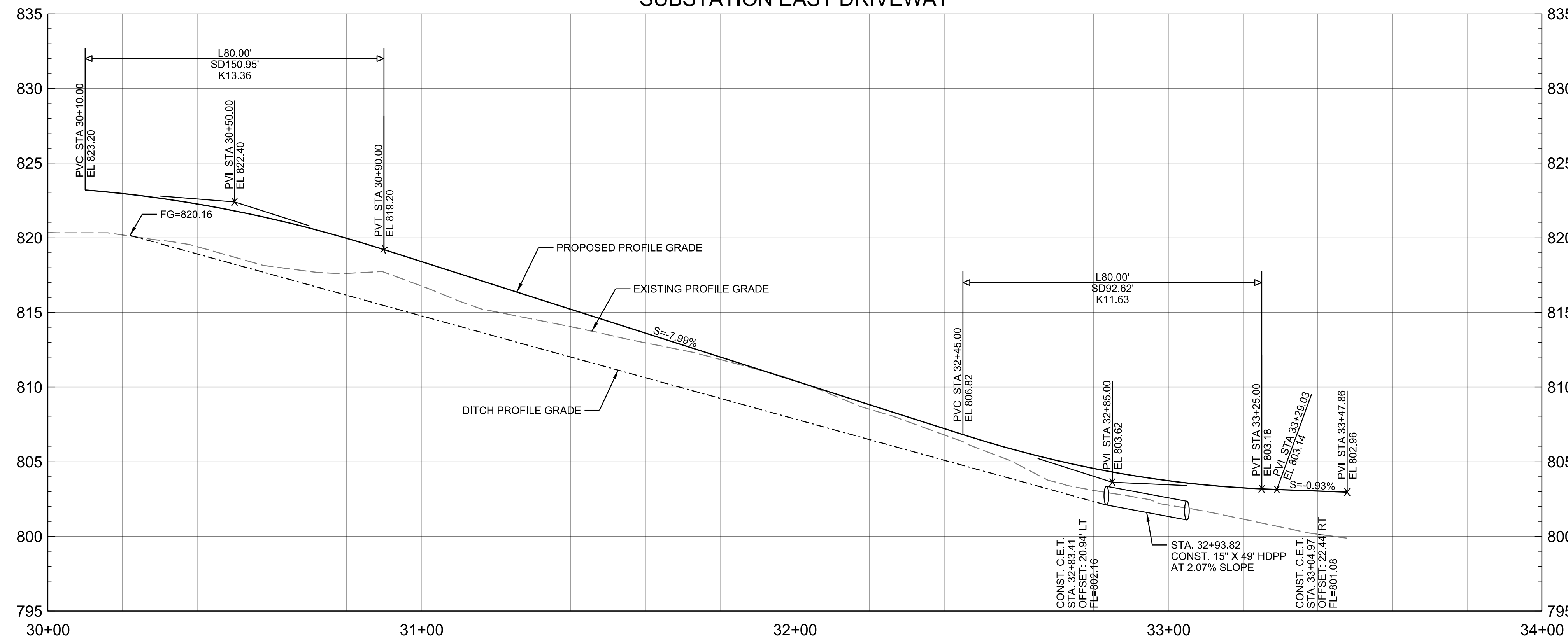
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# SUBSTATION WEST DRIVEWAY



# SUBSTATION EAST DRIVEWAY



# CONCRETE JOINT DETAILS



REV.	DATE	DATE: 6/2018	CGA ENGINEERS, INC.
		18-59-005-07	
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# SUBSTATION DRIVEWAY PROFILES

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SHEET NUMBER

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