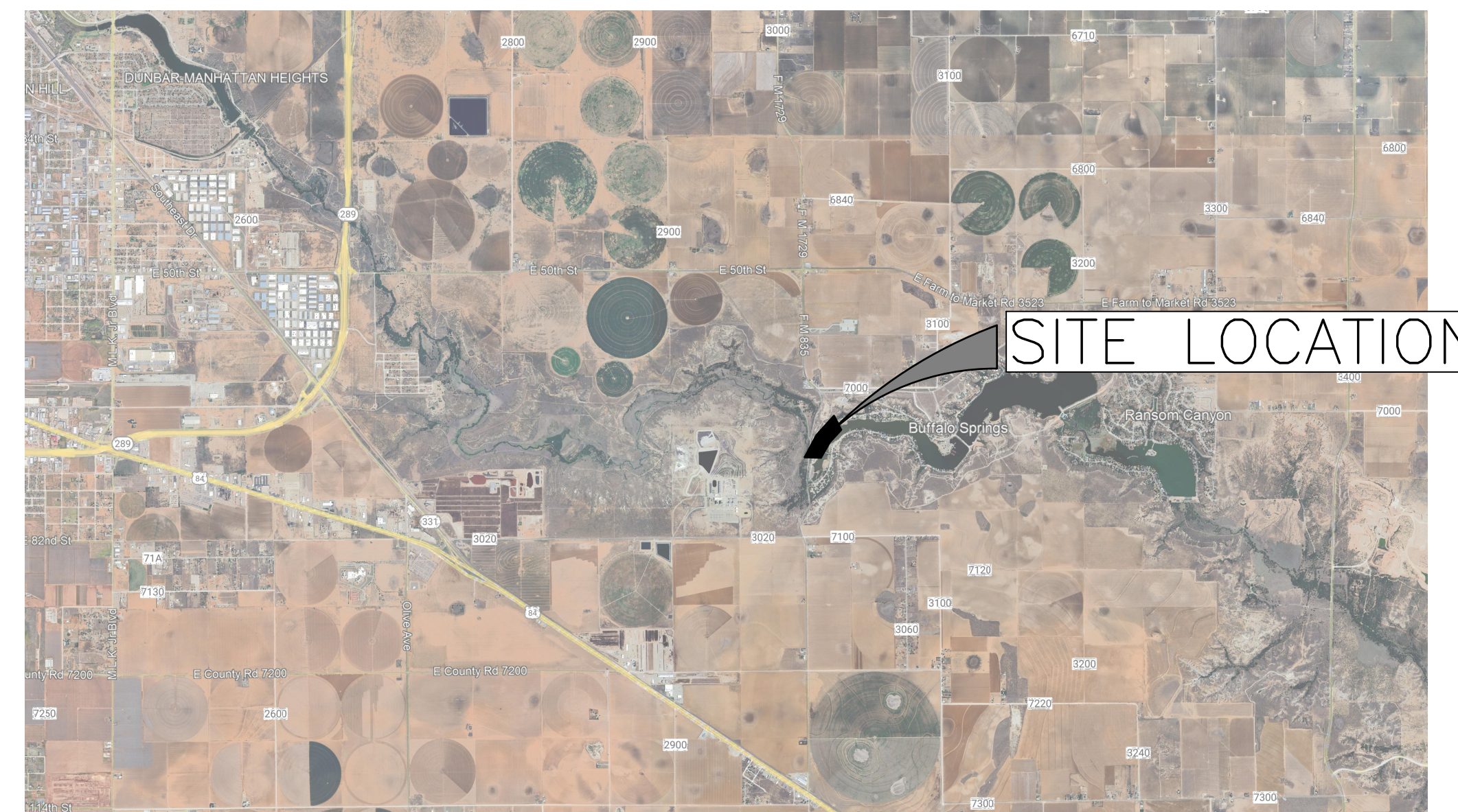


# CAMPGROUND S RV PAD RENOVATION

## BUFFALO SPRINGS LAKE

AN ADDITION LOCATED IN THE CITY OF LUBBOCK, LUBBOCK COUNTY, TEXAS

VICINITY MAP  
NOT TO SCALE

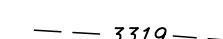
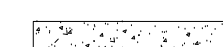
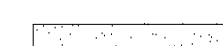












SITE TOPO SURVEY	STS
SITE DEMOLITION PLAN	CD1.1
SITE DIMENSION PLAN (OVERVIEW)	C1.1
SITE DIMENSION PLAN (NORTH)	C1.2
SITE DIMENSION PLAN (SOUTH)	C1.3
SITE UTILITY PLAN	C2.1
SITE GRADING PLAN	C3.1
SITE DETAILS	C4.1

CAMPGROUND S RV PAD RENOVATION  
BUFFALO SPRINGS LAKE  
AN ADDITION LOCATED IN THE CITY OF LUBBOCK, LUBBOCK COUNTY, TEXAS




**NOTES AND LEGEND:**

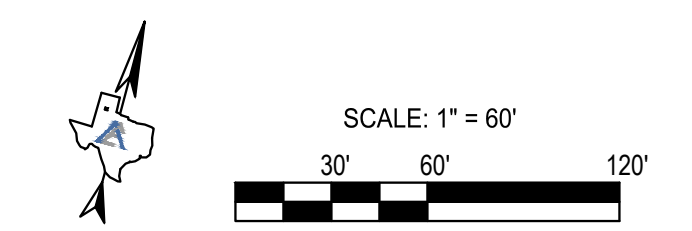
-  - TYPICAL EXISTING CONTOUR BASED UPON FIELD TOPOGRAPHY COLLECTED BY AUTREY ENGINEERING, LLC
-  - CONCRETE PAVING
-  - ASPHALT PAVING
-  - GRAVEL ROAD
-  - WATER / LAKE
-  - INDICATES UNDERGROUND ELECTRIC LINE
-  - INDICATES UNDERGROUND WATER LINE
-  - INDICATES WATER SPIGOT
-  - INDICATES ELECTRIC BOX
-  - INDICATES TREE
-  - INDICATES POWER POLE
-  - INDICATES WATER GATE VALVE
-  - INDICATES WATER METER

- NG - NATURAL GROUND
- B - BACK OF CURB
- L - LIP OF CURB
- G - GUTTER
- BLDG - BUILDING
- EA - EDGE OF ASPHALT
- ERG - EDGE OF GRAVEL
- EOD - EDGE OF DIRT
- EC - EDGE OF CONCRETE
- TOC - TOP OF CONCRETE
- TOA - TOP OF ASPHALT
- FNC - FENCE
- TOP - TOP OF SLOPE
- TOE - BOTTOM OF SLOPE
- FFE - FINISH FLOOR ELEVATION
- CL - CENTERLINE
- SW - SIDEWALK
- FL - FLOWLINE
- TOW - TOP OF WALL
- BOW - BOTTOM OF WALL
- OHE - OVERHEAD ELECTRIC
- MH - MANHOLE
- WV - WATER VALVE
- WM - WATER METER
- GR - GAS RISER

**ABBREVIATIONS IN NOTES**

- DRE - DRAINAGE EASEMENT
- ROW - RIGHT OF WAY

 BENCHMARK - IRON ROD WITH CAP MARKED "AUT ENG CONTROL"  
 LOCATED ON THE SOUTH SIDE OF THE ENTRANCE TO THE BRIDGE  
 ELEVATION = 3017.45 (NAVD88)  
 NORTHING = 7254513.75  
 EASTING = 985464.67



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No.	DATE	REVISIONS


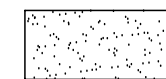
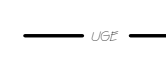


**SITE TOPO SURVEY**

**STS**

DRAWN BY: CLB  
 CHECKED BY: JLB  
 DATE: 11/20/22



**NOTES AND LEGEND:**

-  - EXISTING GRAVEL ROAD TO REMAIN
-  - EXISTING ASPHALT TO REMAIN
-  - EXISTING UNDERGROUND ELECTRIC TO BE ABANDONED
-  - EXISTING WATER LINE TO BE REMOVED
-  - WORK AREA, LIMITS OF DEMO DENOTED BY DARK LINES
- ① - CONTRACTOR SHALL REMOVE AND LEGALLY DISPOSE OF EXISTING UNDERGROUND ELECTRIC LINES AND ELECTRIC BOXES
- ② - CONTRACTOR SHALL REMOVE AND LEGALLY DISPOSE OF EXISTING WATER LINE AND ATTACHED SPIGOTS

EXISTING CONCRETE SIDEWALKS AND DRIVEWAYS OUTSIDE OF PROPERTY SHALL REMAIN.

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THE INFORMATION SHOWN ON THESE DRAWINGS CONCERNING TYPE, INFORMATION, AND THE LOCATION OF UNDERGROUND AND OTHER UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL-INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATIONS AS TO THE TYPE AND LOCATIONS OF ALL UNDERGROUND AND OTHER UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGES. THE CONTRACTOR SHALL REPAIR ANY DAMAGES TO EXISTING UTILITIES IMMEDIATELY AND AT NO ADDITIONAL COST TO THE OWNER OR ENGINEER. PLANS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR WITH NO ADDITIONAL COMPENSATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING UTILITY COMPANIES HAVING PROPERTY IN THE AREA OF CONSTRUCTION A MINIMUM OF 48 HOURS PRIOR TO ANY EXCAVATION.

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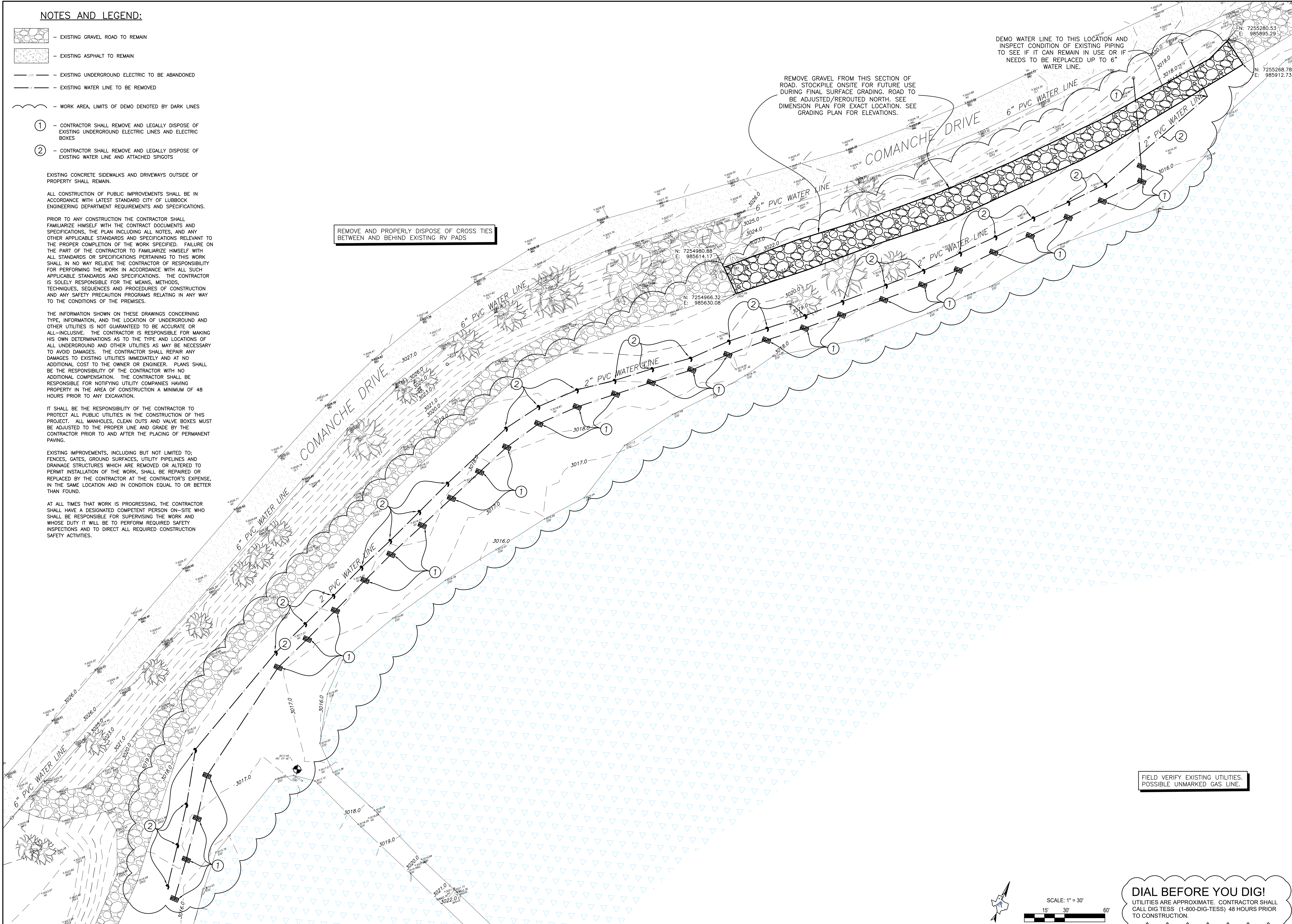
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REMOVE AND PROPERLY DISPOSE OF CROSS TIES BETWEEN AND BEHIND EXISTING RV PADS

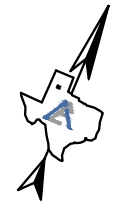
REMOVE GRAVEL FROM THIS SECTION OF ROAD. STOCKPILE ONSITE FOR FUTURE USE DURING FINAL SURFACE GRADING. ROAD TO BE ADJUSTED/REROUTED NORTH. SEE DIMENSION PLAN FOR EXACT LOCATION. SEE GRADING PLAN FOR ELEVATIONS.

DEMO WATER LINE TO THIS LOCATION AND INSPECT CONDITION OF EXISTING PIPING TO SEE IF IT CAN REMAIN IN USE OR IF NEEDS TO BE REPLACED UP TO 6" WATER LINE.



FIELD VERIFY EXISTING UTILITIES. POSSIBLE UNMARKED GAS LINE.

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TBP# Firm # F-20861

WESTIN G. McCOWEN  
140309  
LICENSED PROFESSIONAL ENGINEER  
MARCH 8, 2024

No.	DATE	REVISIONS

**SITE DEMOLITION PLAN**  
**CD1.1**



**NOTES AND LEGEND:**

- EXISTING ASPHALT
- EXISTING CONCRETE
- EXISTING GRAVEL ROAD
- PROPOSED GRAVEL ROAD REGRADE / REROUTE
- PROPOSED STANDARD DUTY CONCRETE PAVEMENT
- PROPOSED DOMESTIC WATER LINE
- PROPOSED CONDUIT FOR UNDERGROUND ELECTRIC LINE
- PROPOSED OVERHEAD ELECTRIC
- PROPOSED WATER SPIGOT
- PROPOSED ELECTRIC BOX
- PROPOSED WATER METER
- PROPOSED GATE VALVE
- PROPOSED LIGHT POLE
- PROPOSED FIREPIT LOCATION (INSTALLED AT DISCRETION AND SPECIFICATIONS OF BUFFALO SPRINGS LAKE)
- PROPOSED WHEEL STOP
- CONTRACTION JOINT PLAIN
- EXISTING WATER LINE
- EXISTING OVERHEAD ELECTRIC
- EXISTING POWER POLE

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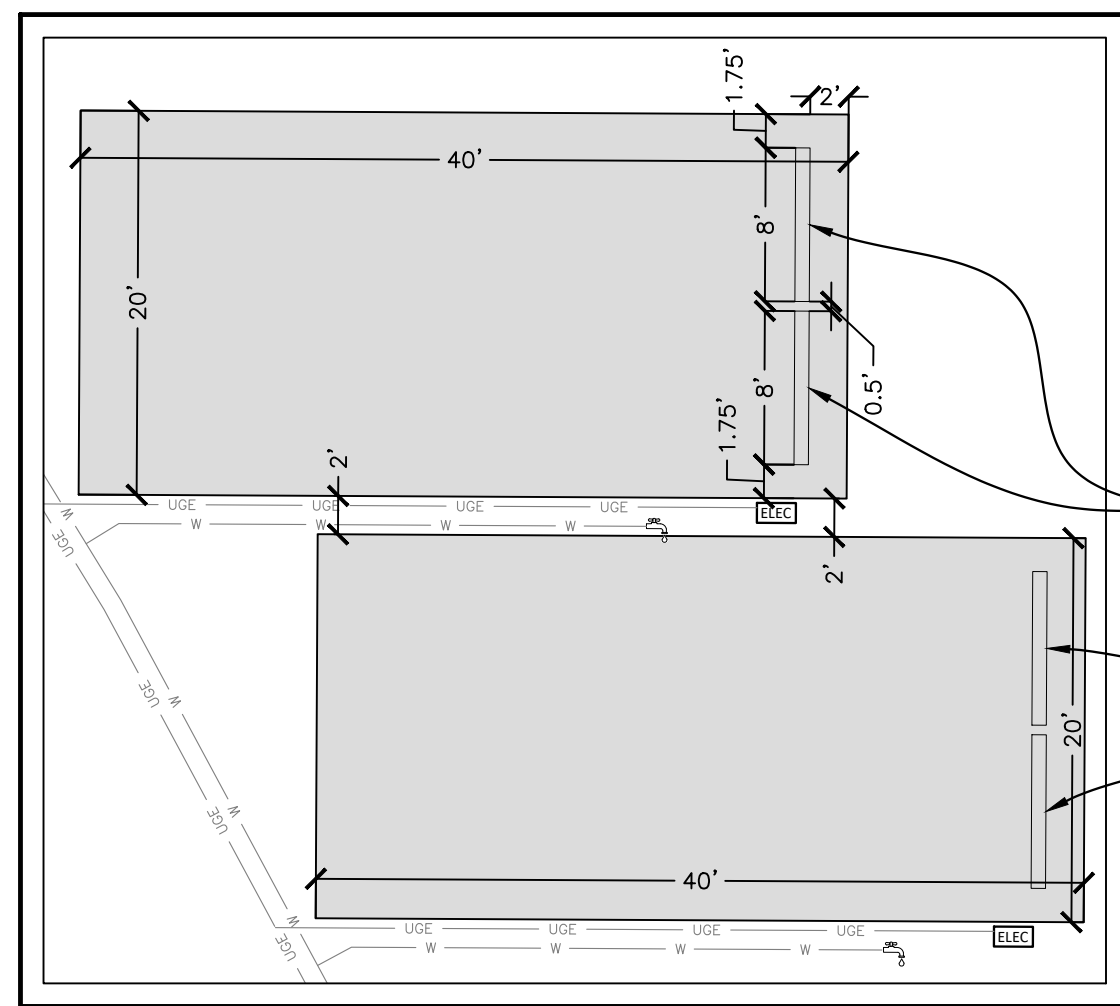
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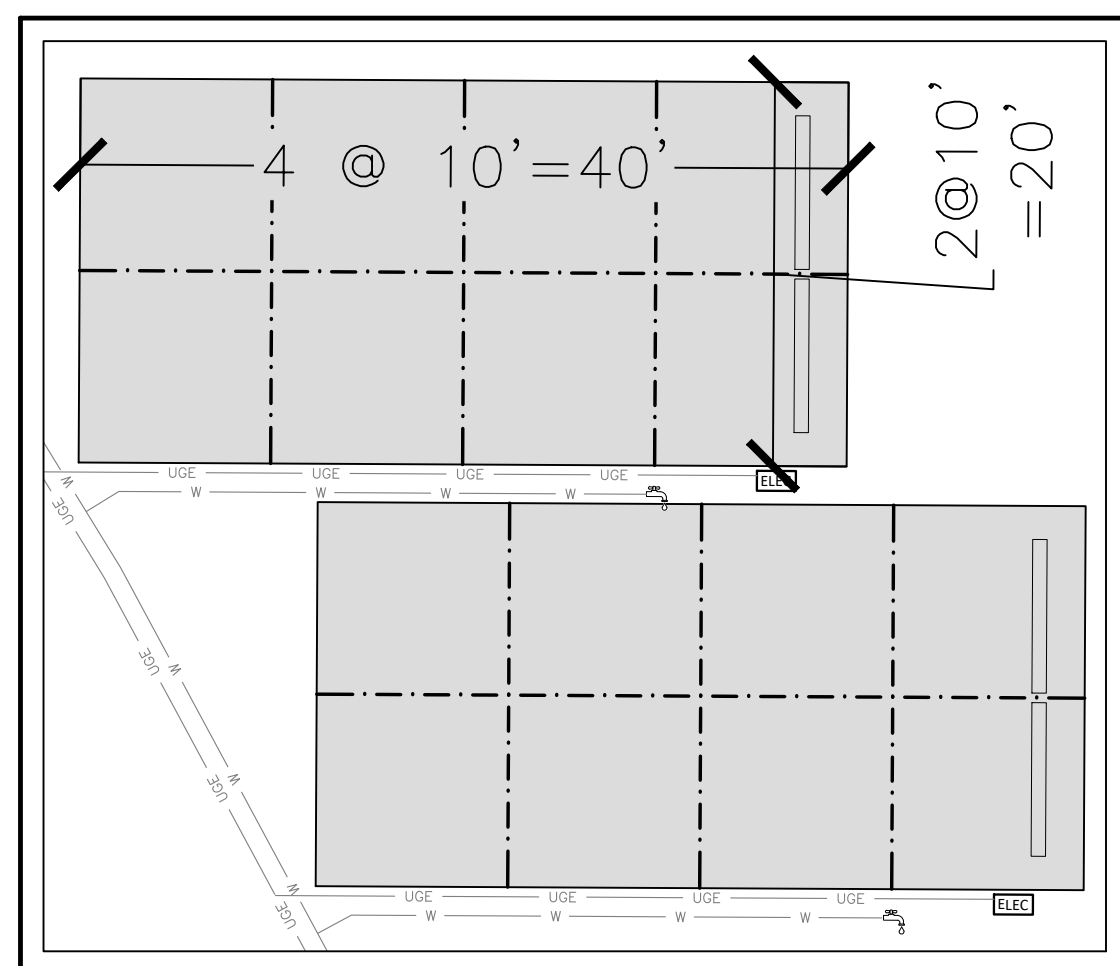
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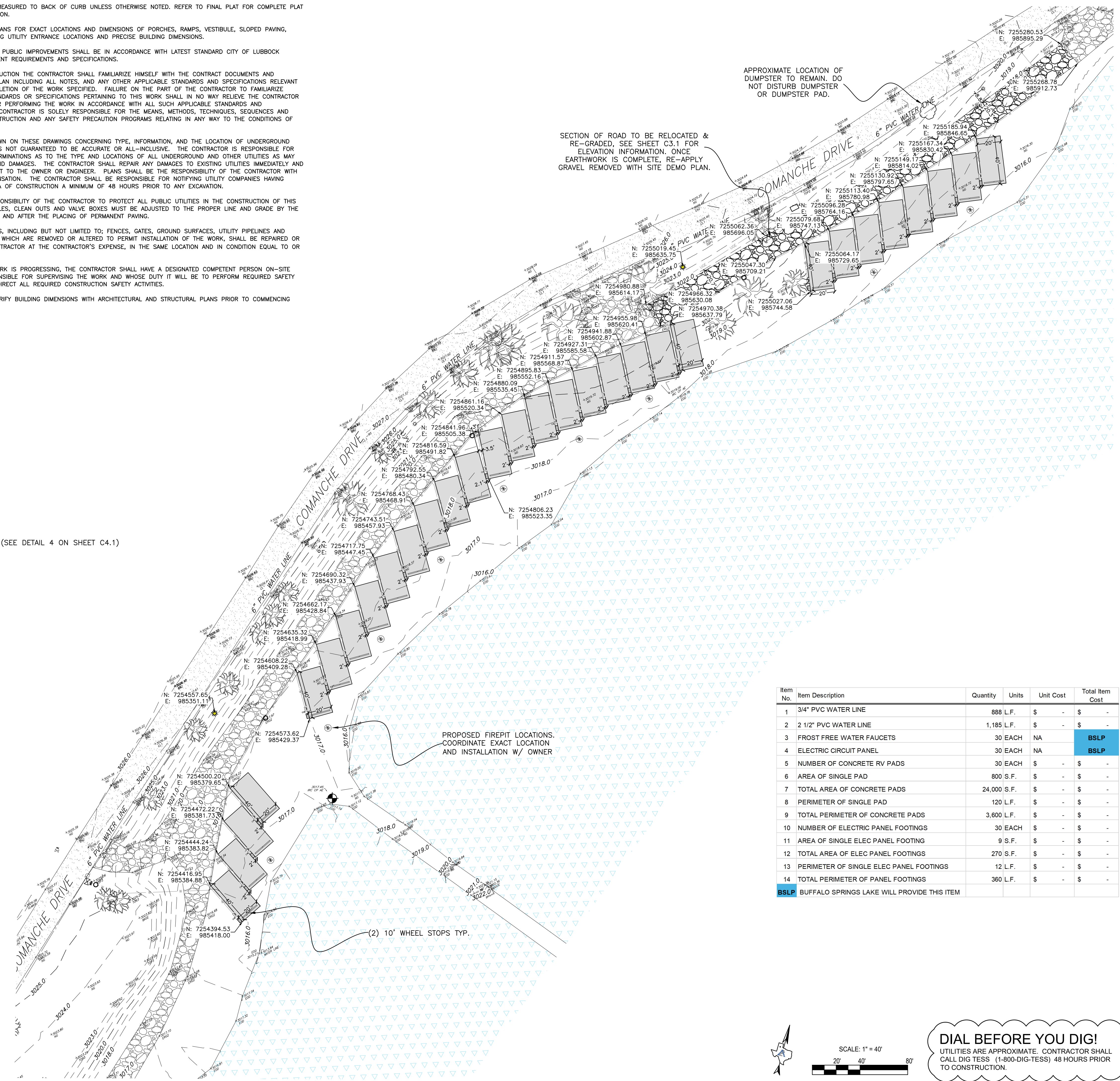
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TYPICAL RV PAD DETAIL  
SCALE: 1:10



TYPICAL RV PAD JOINTING DETAIL  
SCALE: 1:10



SECTION OF ROAD TO BE RELOCATED & RE-GRADED, SEE SHEET C3.1 FOR ELEVATION INFORMATION. ONCE EARTHWORK IS COMPLETE, RE-APPLY GRAVEL REMOVED WITH SITE DEMO PLAN.

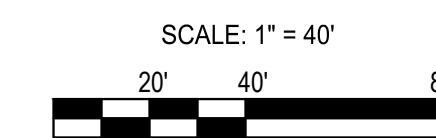
APPROXIMATE LOCATION OF DUMPSTER TO REMAIN. DO NOT DISTURB DUMPSTER OR DUMPSTER PAD.

PROPOSED FIREPIT LOCATIONS. COORDINATE EXACT LOCATION AND INSTALLATION W/ OWNER

(2) 10' WHEEL STOPS TYP.

Item No.	Item Description	Quantity	Units	Unit Cost	Total Item Cost
1	3/4" PVC WATER LINE	888	L.F.	\$ -	\$ -
2	2 1/2" PVC WATER LINE	1,185	L.F.	\$ -	\$ -
3	FROST FREE WATER FAUCETS	30	EACH	NA	BSLP
4	ELECTRIC CIRCUIT PANEL	30	EACH	NA	BSLP
5	NUMBER OF CONCRETE RV PADS	30	EACH	\$ -	\$ -
6	AREA OF SINGLE PAD	800	S.F.	\$ -	\$ -
7	TOTAL AREA OF CONCRETE PADS	24,000	S.F.	\$ -	\$ -
8	PERIMETER OF SINGLE PAD	120	L.F.	\$ -	\$ -
9	TOTAL PERIMETER OF CONCRETE PADS	3,600	L.F.	\$ -	\$ -
10	NUMBER OF ELECTRIC PANEL FOOTINGS	30	EACH	\$ -	\$ -
11	AREA OF SINGLE ELEC PANEL FOOTING	9	S.F.	\$ -	\$ -
12	TOTAL AREA OF ELEC PANEL FOOTINGS	270	S.F.	\$ -	\$ -
13	PERIMETER OF SINGLE ELEC PANEL FOOTINGS	12	L.F.	\$ -	\$ -
14	TOTAL PERIMETER OF PANEL FOOTINGS	360	L.F.	\$ -	\$ -

BSLP: BUFFALO SPRINGS LAKE WILL PROVIDE THIS ITEM



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WESTIN G. McCOWEN  
140309  
LICENSED PROFESSIONAL ENGINEER  
MARCH 8, 2024

No.	DATE	REVISIONS

**SITE DIMENSION PLAN**  
(OVERVIEW)

**C1.1**



**NOTES AND LEGEND:**

- EXISTING ASPHALT
- EXISTING CONCRETE
- EXISTING GRAVEL ROAD
- PROPOSED GRAVEL ROAD REGRAVING / REROUTE
- PROPOSED STANDARD DUTY CONCRETE PAVEMENT
- PROPOSED DOMESTIC WATER LINE
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- PROPOSED OVERHEAD ELECTRIC
- PROPOSED WATER SPIGOT
- PROPOSED ELECTRIC BOX
- PROPOSED WATER METER
- PROPOSED LIGHT POLE
- PROPOSED GATE VALVE
- PROPOSED FIREPIT LOCATION (INSTALLED AT DISCRETION AND SPECIFICATION OF BUFFALO SPRINGS LAKE)
- PROPOSED WHEELSTOP
- EXISTING WATER LINE
- EXISTING OVERHEAD ELECTRIC
- EXISTING POWER POLE

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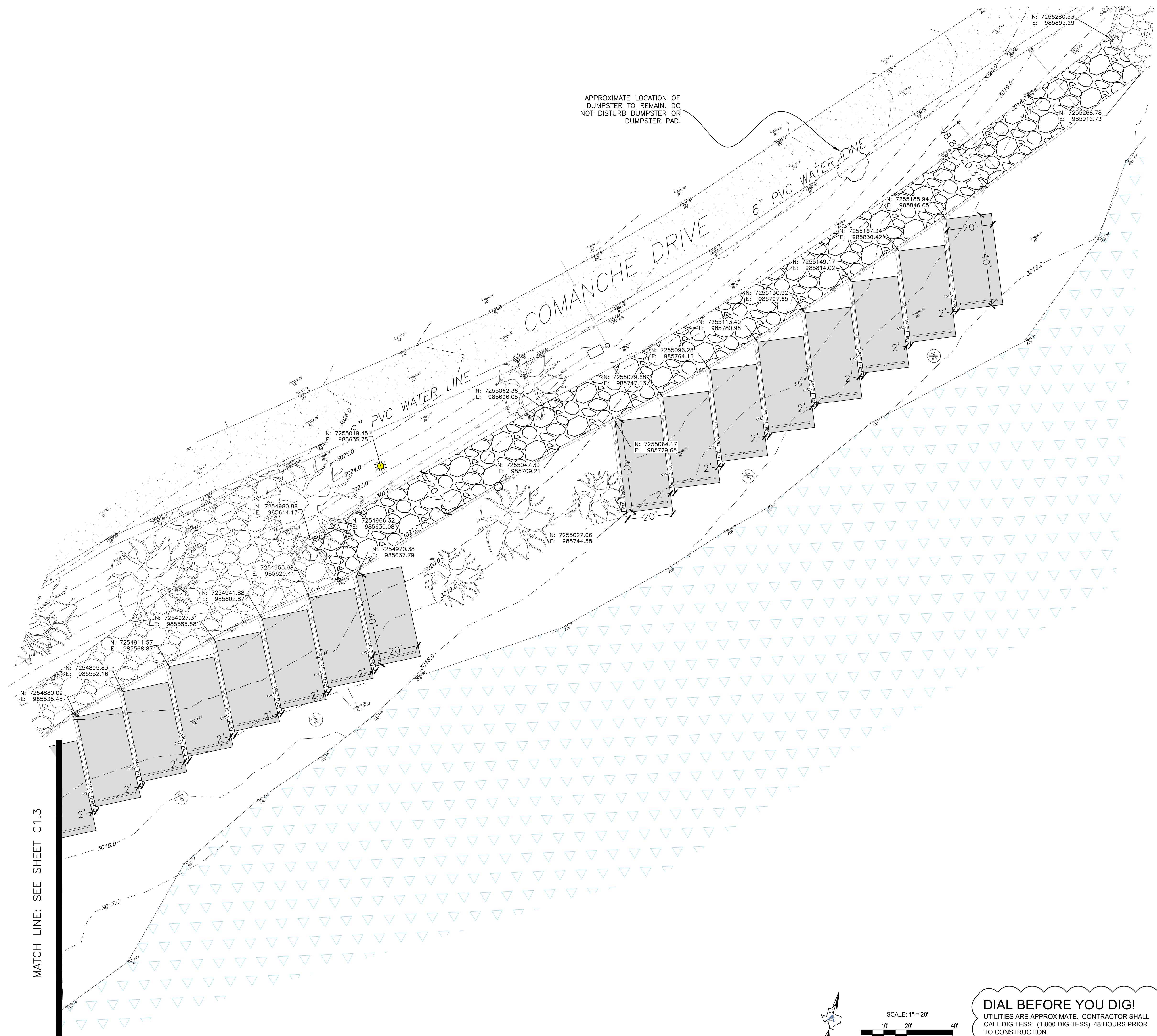
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APPROXIMATE LOCATION OF DUMPSTER TO REMAIN. DO NOT DISTURB DUMPSTER OR DUMPSTER PAD.

MATCH LINE: SEE SHEET C1.3



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MARCH 8, 2024

No.	DATE	REVISIONS

**SITE DIMENSION PLAN**  
(NORTH)

**C1.2**



**NOTES AND LEGEND:**

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- EXISTING CONCRETE
- EXISTING GRAVEL ROAD
- PROPOSED GRAVEL ROAD REGRAVING / REROUTE
- PROPOSED STANDARD DUTY CONCRETE PAVEMENT
- PROPOSED DOMESTIC WATER LINE
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- PROPOSED OVERHEAD ELECTRIC
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- PROPOSED ELECTRIC BOX
- PROPOSED WATER METER
- PROPOSED LIGHT POLE
- PROPOSED GATE VALVE
- PROPOSED FIREPIT LOCATION (INSTALLED AT DISCRETION AND SPECIFICATION OF BUFFALO SPRINGS LAKE)
- PROPOSED WHEELSTOP
- EXISTING WATER LINE
- EXISTING OVERHEAD ELECTRIC
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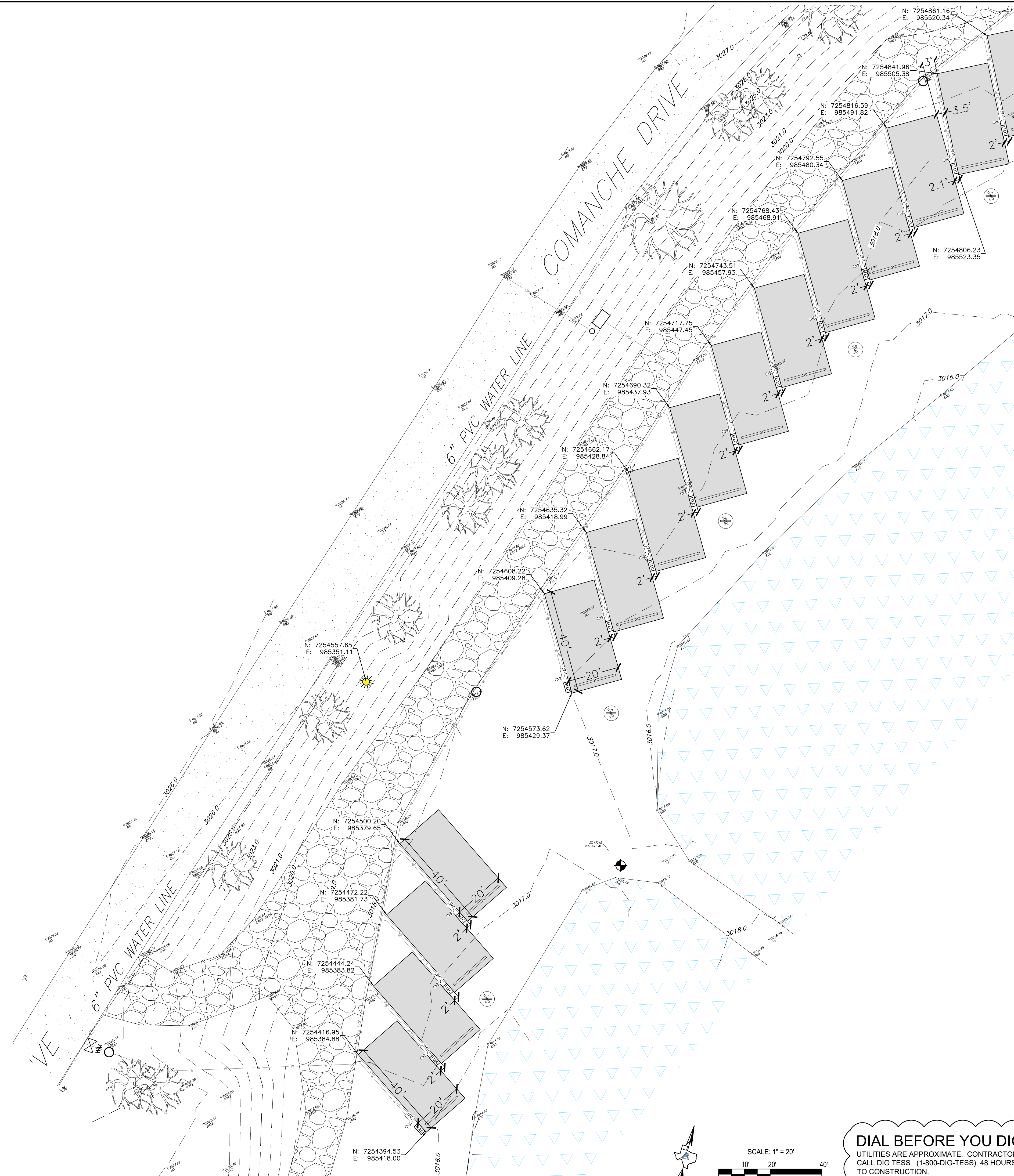
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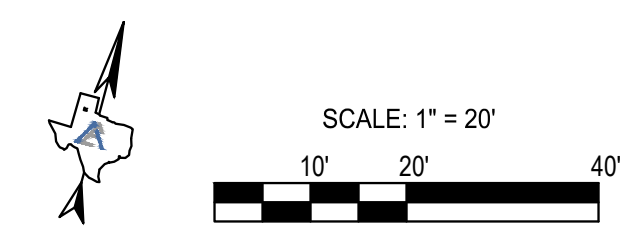
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AT ALL TIMES THAT WORK IS PROGRESSING, THE CONTRACTOR SHALL HAVE A DESIGNATED COMPETENT PERSON ON-SITE WHO SHALL BE RESPONSIBLE FOR SUPERVISING THE WORK AND WHOSE DUTY IT WILL BE TO PERFORM REQUIRED SAFETY INSPECTIONS AND TO DIRECT ALL REQUIRED CONSTRUCTION SAFETY ACTIVITIES.

CONTRACTOR SHALL VERIFY BUILDING DIMENSIONS WITH ARCHITECTURAL AND STRUCTURAL PLANS PRIOR TO COMMENCING CONSTRUCTION.



MATCH LINE: SEE SHEET C1.2



**DIAL BEFORE YOU DIG!**  
UTILITIES ARE APPROXIMATE. CONTRACTOR SHALL CALL DIG TESS (1-800-DIG-TESS) 48 HOURS PRIOR TO CONSTRUCTION.

**Buffalo Springs Campground S**  
9999 HIGH MEADOW ROAD  
LUBBOCK, TEXAS 79404

**AUTREY ENGINEERING**  
Autrey Engineering, LLC  
16813 FM 179  
Woolforn, TX 79382  
Phone: 806-863-3200  
info@autrey-eng.com  
TBPE Firm # F-20861

WESTIN G. McCOWEN  
140309  
LICENSED PROFESSIONAL ENGINEER  
MARCH 8, 2024

No.	DATE	REVISIONS

**SITE DIMENSION PLAN**  
(SOUTH)

**C1.3**

DRAWN BY: CLB  
DATE: 02.20.24



**NOTES AND LEGEND**

- UOE — PROPOSED CONDUIT FOR UNDERGROUND ELECTRIC LINE
- OHE — PROPOSED OVERHEAD ELECTRIC
- DW — PROPOSED DOMESTIC WATER LINE
- ⊠ — PROPOSED WATER METER
- ⊠ — PROPOSED WATER SPIGOT
- — PROPOSED ELECTRIC BOX
- — PROPOSED WATER VALVE
- ⊙ — PROPOSED LIGHT POLE
- — — — — EXISTING WATER LINE
- — — — — EXISTING OVERHEAD ELECTRIC
- — — — — EXISTING GATE VALVE
- FH — EXISTING FIRE HYDRANT
- ⊙ — EXISTING POWER POLE

ALL DIMENSIONS ARE MEASURED TO BACK OF CURB UNLESS OTHERWISE NOTED. REFER TO FINAL PLAT FOR COMPLETE PLAT DIMENSIONAL INFORMATION.

SEE ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND DIMENSIONS OF PORCHES, RAMPS, VESTIBULE, SLOPED PAVING, TRUCK DOCKS, BUILDING UTILITY ENTRANCE LOCATIONS AND PRECISE BUILDING DIMENSIONS.

ALL CONSTRUCTION OF PUBLIC IMPROVEMENTS SHALL BE IN ACCORDANCE WITH LATEST STANDARD CITY OF LUBBOCK ENGINEERING DEPARTMENT REQUIREMENTS AND SPECIFICATIONS.

PRIOR TO ANY CONSTRUCTION THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE CONTRACT DOCUMENTS AND SPECIFICATIONS, THE PLAN INCLUDING ALL NOTES, AND ANY OTHER APPLICABLE STANDARDS AND SPECIFICATIONS RELEVANT TO THE PROPER COMPLETION OF THE WORK SPECIFIED. FAILURE ON THE PART OF THE CONTRACTOR TO FAMILIARIZE HIMSELF WITH ALL STANDARDS OR SPECIFICATIONS PERTAINING TO THIS WORK SHALL IN NO WAY RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR PERFORMING THE WORK IN ACCORDANCE WITH ALL SUCH APPLICABLE STANDARDS AND SPECIFICATIONS. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES OF CONSTRUCTION AND ANY SAFETY PRECAUTION PROGRAMS RELATING IN ANY WAY TO THE CONDITIONS OF THE PREMISES.

THE INFORMATION SHOWN ON THESE DRAWINGS CONCERNING TYPE, INFORMATION, AND THE LOCATION OF UNDERGROUND AND OTHER UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL-INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATIONS AS TO THE TYPE AND LOCATIONS OF ALL UNDERGROUND AND OTHER UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGES. THE CONTRACTOR SHALL REPAIR ANY DAMAGES TO EXISTING UTILITIES IMMEDIATELY AND AT NO ADDITIONAL COST TO THE OWNER OR ENGINEER. PLANS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR WITH NO ADDITIONAL COMPENSATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING UTILITY COMPANIES HAVING PROPERTY IN THE AREA OF CONSTRUCTION A MINIMUM OF 48 HOURS PRIOR TO ANY EXCAVATION.

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT ALL PUBLIC UTILITIES IN THE CONSTRUCTION OF THIS PROJECT. ALL MANHOLES, CLEAN OUTS AND VALVE BOXES MUST BE ADJUSTED TO THE PROPER LINE AND GRADE BY THE CONTRACTOR PRIOR TO AND AFTER THE PLACING OF PERMANENT PAVING.

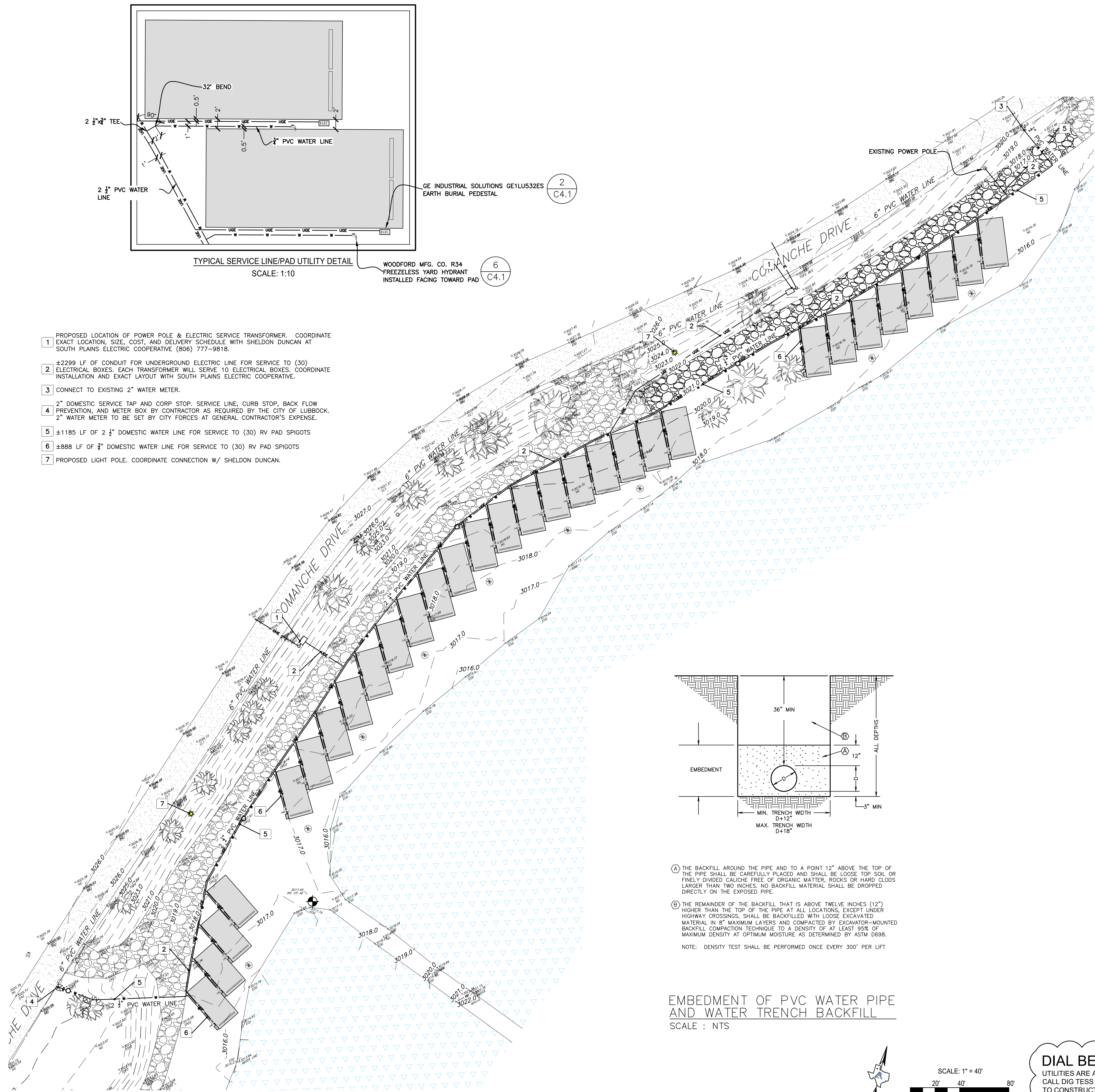
EXISTING IMPROVEMENTS, INCLUDING BUT NOT LIMITED TO: FENCES, GATES, GROUND SURFACES, UTILITY PIPELINES AND DRAINAGE STRUCTURES WHICH ARE REMOVED OR ALTERED TO PERMIT INSTALLATION OF THE WORK, SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE, IN THE SAME LOCATION AND IN CONDITION EQUAL TO OR BETTER THAN FOUND.

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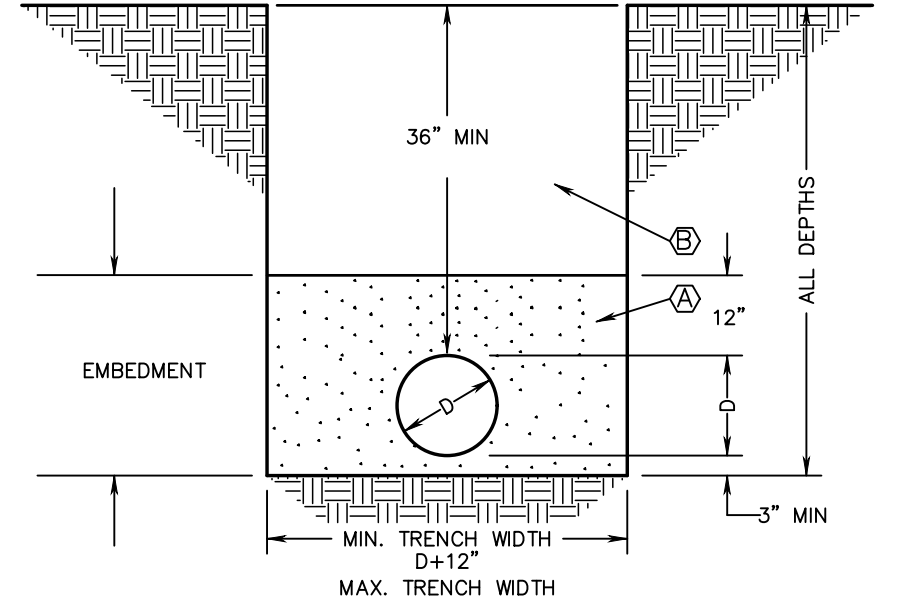
CONTRACTOR SHALL VERIFY BUILDING DIMENSIONS AND ATHLETIC FACILITIES WITH ARCHITECTURAL AND STRUCTURAL PLANS PRIOR TO COMMENCING CONSTRUCTION.

**PUBLIC UTILITY CONTACTS**

- |   |   |
|---|---|
| <b>ELECTRIC SERVICE</b>   |   |
| Jake Jordan<br>SPEC<br>P.O. Box 1830<br>Lubbock, Texas 79408                            | Phone: (806) 775-7734<br>Cell: (806) 777-3225<br>E-mail: jcalaway@spec.coop             |
| David Stinebaugh<br>LP&L<br>P.O. Box 2000<br>Lubbock, Texas 79457                       | Phone: (806) 775-2581<br>Cell: (806) 790-3953<br>E-mail: dstinebaugh@ipandl.com         |
| <b>NATURAL GAS SERVICE</b>  |   |
| John Huffhines<br>Atmos<br>6606 68th Street<br>Lubbock, Texas 79424                     | Phone: (806) 798-4480<br>Cell: (806) 789-6923<br>E-mail: john.huffhines@atmosenergy.com |
| Aaron Boles<br>West Texas Gas<br>9402 C FM 1585<br>Wofforth, TX 79382                   | Phone: (806) 866-0339<br>Cell: (806) 348-6866<br>Email: aboles@westtexasgas.com         |
| <b>FIBER COMMUNICATION SERVICE</b>  |   |
| Michael Penny<br>NTS<br>1220 Broadway<br>Lubbock, Texas 79401                           | Phone: (806) 778-2958<br>Cell: (806) 577-6059<br>E-mail: michael.penny@ntsc.com         |
| <b>CABLE TELEVISION SERVICE</b>   |   |
| Jon Salas<br>Suddenlink<br>6710 Hartford Ave<br>Lubbock, Texas 79413                    | Phone: (806) 771-6133<br>Cell:<br>E-mail: jon.salas@suddenlink.com                      |
| Kyle Knox<br>AT&T<br>2010 Avenue R, RM 102<br>Lubbock, Texas 79411                      | Phone: (806) 741-6256<br>Cell: (806) 559-1658<br>E-mail: wk1741@att.com                 |
| <b>CITY OF LUBBOCK DEVELOPMENT SERVICES ENGINEERING</b>                                 |   |
| Mike McKay<br>Assistant City Engineer<br>1314 Avenue K - 7th Floor<br>Lubbock, TX 79408 | Phone: (806) 775-2394   |
| <b>CITY OF LUBBOCK</b>  |   |
| Public Works Backflow Program   | Phone: (806) 775-3596   |
| <b>CITY OF LUBBOCK WATER AND SEWER INSPECTOR</b>  |   |
| Joshua Flud<br>Senior Inspector<br>1314 Avenue K - 7th Floor<br>Lubbock, TX 79408       | Phone: (806) 548-4152   |
| <b>CITY OF LUBBOCK WATER AND SEWER TAPS</b>   |   |
| Matt Sanchez  | Phone: (806) 775-2348   |
| <b>CITY OF LUBBOCK</b>  |   |
| Industrial Waste Monitoring and Pretreatment  | Phone: (806) 775-2626   |
| <b>CITY OF LUBBOCK FIRE DEPARTMENT</b>  |   |
| Terry Davis   | Phone: (806) 775-3601<br>Email: twdavis@mylubbock.us                                    |

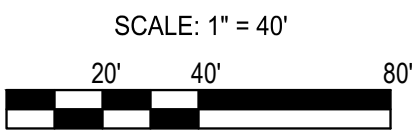


- 1 PROPOSED LOCATION OF POWER POLE & ELECTRIC SERVICE TRANSFORMER. COORDINATE EXACT LOCATION, SIZE, COST, AND DELIVERY SCHEDULE WITH SHELDON DUNCAN AT SOUTH PLAINS ELECTRIC COOPERATIVE (806) 777-9818.
- 2 ±2299 LF OF CONDUIT FOR UNDERGROUND ELECTRIC LINE FOR SERVICE TO (30) ELECTRICAL BOXES. EACH TRANSFORMER WILL SERVE 10 ELECTRICAL BOXES. COORDINATE INSTALLATION AND EXACT LAYOUT WITH SOUTH PLAINS ELECTRIC COOPERATIVE.
- 3 CONNECT TO EXISTING 2" WATER METER.
- 4 2" DOMESTIC SERVICE TAP AND CORP STOP, SERVICE LINE, CURB STOP, BACK FLOW PREVENTION, AND METER BOX BY CONTRACTOR AS REQUIRED BY THE CITY OF LUBBOCK. 2" WATER METER TO BE SET BY CITY FORCES AT GENERAL CONTRACTOR'S EXPENSE.
- 5 ±1185 LF OF 2 1/2" DOMESTIC WATER LINE FOR SERVICE TO (30) RV PAD SPIGOTS
- 6 ±888 LF OF 3/4" DOMESTIC WATER LINE FOR SERVICE TO (30) RV PAD SPIGOTS
- 7 PROPOSED LIGHT POLE. COORDINATE CONNECTION W/ SHELDON DUNCAN.



- A THE BACKFILL AROUND THE PIPE AND TO A POINT 12" ABOVE THE TOP OF THE PIPE SHALL BE CAREFULLY PLACED AND SHALL BE LOOSE TOP SOIL OR FINELY DIVIDED CALICHE FREE OF ORGANIC MATTER, ROCKS OR HARD CLODS LARGER THAN TWO INCHES. NO BACKFILL MATERIAL SHALL BE DROPPED DIRECTLY ON THE EXPOSED PIPE.
  - B THE REMAINDER OF THE BACKFILL THAT IS ABOVE TWELVE INCHES (12") HIGHER THAN THE TOP OF THE PIPE AT ALL LOCATIONS, EXCEPT UNDER HIGHWAY CROSSINGS, SHALL BE BACKFILLED WITH LOOSE EXCAVATED MATERIAL IN 8" MAXIMUM LAYERS AND COMPACTED BY EXCAVATOR-MOUNTED BACKFILL COMPACTION TECHNIQUE TO A DENSITY OF AT LEAST 95% OF MAXIMUM DENSITY AT OPTIMUM MOISTURE AS DETERMINED BY ASTM D698.
- NOTE: DENSITY TEST SHALL BE PERFORMED ONCE EVERY 300' PER LIFT

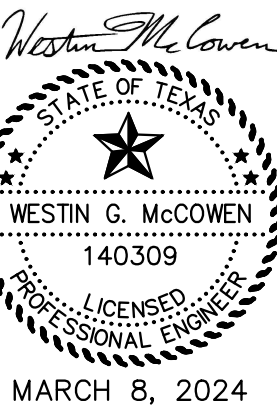
**EMBEDMENT OF PVC WATER PIPE AND WATER TRENCH BACKFILL**  
SCALE : NTS



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**Buffalo Springs Campground S**  
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Wofforth, TX 79382  
Phone: 806-863-3200  
info@autrey-eng.com  
TBP# Firm # F-20861



No.	DATE	REVISIONS

**SITE UTILITY PLAN**

**C2.1**



**NOTES AND LEGEND:**

- 74.30 - TYPICAL PROPOSED ELEVATION
- ±74.30 - TYPICAL MATCH APPROXIMATE EXISTING ELEVATION
- - - 3319.0 - TYPICAL EXISTING CONTOUR BASED UPON FIELD TOPOGRAPHY COLLECTED BY AUTREY ENGINEERING, LLC
- - - 3319 - PROPOSED CONTOUR
- ▭ - PROPOSED CONCRETE PAVING, SEE DETAIL BELOW
- - - - - PROPOSED FLOWLINE
- - - - - PROPOSED RIDGE
- Ⓣ - TRANSITION CURB AND GUTTER FROM FULL HEIGHT TO LAY DOWN CURB SECTION
- T - TOP OF CURB
- B - BACK OF CURB
- FL - VALLEY GUTTER FLOW LINE
- TOW - TOP OF WALL
- BOW - BOTTOM OF WALL
- G - GUTTER
- L - LIP OF CURB
- BP - BREAK POINT
- GB - GRADE BREAK
- C - TOP OF CONCRETE
- C/W - FLUSH CONCRETE SIDEWALK
- EC - EDGE OF CONCRETE
- FPE - FINISHED FLOOR ELEVATION
- FG - FINISHED GRADE
- RR - RIP RAP
- TOE - TOE OF SLOPE
- TOP - TOP OF SLOPE
- A - TOP OF ASPHALT
- E - EDGE OF ASPHALT

⊕ BENCHMARK - IRON ROD WITH CAP MARKED "AUT ENG CONTROL"  
 LOCATED ON THE SOUTH SIDE OF THE ENTRANCE TO THE BRIDGE  
 ELEVATION = 3017.45 (NAVD88)  
 NORTHING = 7254513.75  
 EASTING = 985464.67

ALL ELEVATIONS AND CONTOURS ARE NAVD. ADD 3000 TO ELEVATIONS WHERE APPLICABLE.

ALL ELEVATIONS SHOWN IN STREET AREAS ARE GUTTER OR FLOW LINE.

ELEVATIONS SHOWN IN LANDSCAPE AREAS ARE TO FINISHED GRADE. CONTRACTOR SHALL ACCOUNT FOR PLACEMENT OF SOD WHEN PERFORMING FINISHED LANDSCAPE GRADING.

REFER TO FINAL PLAT FOR COMPLETE LOT DIMENSIONAL INFORMATION.

PERCENT SLOPES ARE CALCULATED ALONG ACTUAL FACE OF CURB.

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MAXIMUM CROSS-SLOPE ON SIDEWALKS SHALL BE 2.0%;  
 MAXIMUM LONGITUDINAL SLOPE SHALL BE 5.0%.

GROUND/SURFACES ALONG THE ACCESSIBLE ROUTE AS REQUIRED BY THE TEXAS ACCESSIBILITY STANDARDS FROM PUBLIC STREET/SIDEWALK, TO/THROUGH THIS FACILITY AND ANY OTHER SPACE THAT IS PART OF THE ACCESSIBLE ROUTE SHALL COMPLY WITH THE TEXAS ACCESSIBILITY STANDARDS AND MUST BE FIRM, STABLE AND SLIP RESISTANT.

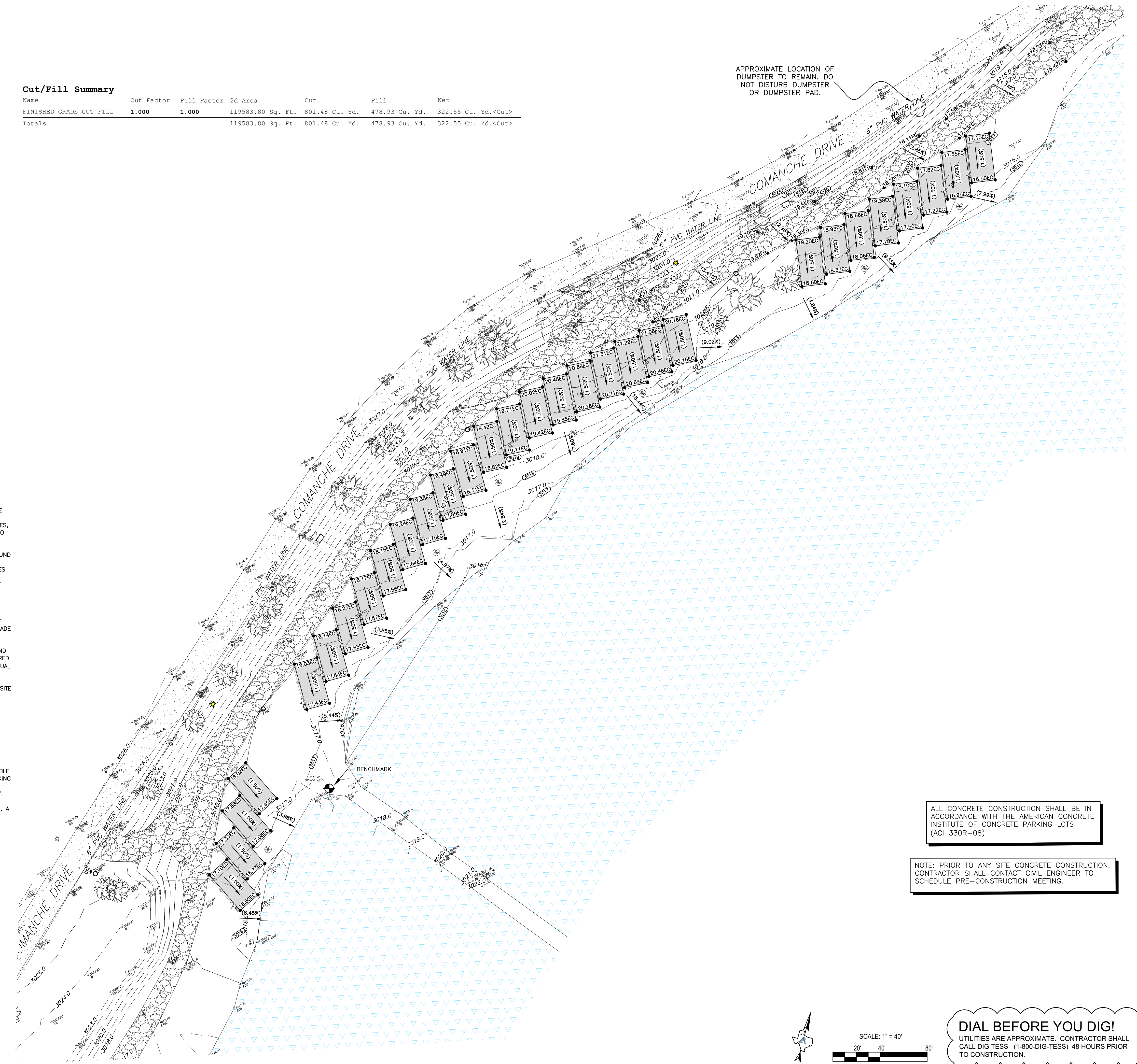
ENTRANCES REQUIRED TO BE ACCESSIBLE BY THE TEXAS ACCESSIBILITY STANDARDS SHALL BE PART OF AN ACCESSIBLE ROUTE AND SHALL BE CONNECTED BY AN ACCESSIBLE ROUTE TO PUBLIC TRANSPORTATION STOPS, ACCESSIBLE PARKING AND PASSENGER LOADING ZONES AND TO PUBLIC STREETS OR SIDEWALKS IF AVAILABLE. THEY SHALL ALSO BE CONNECTED BY AN ACCESSIBLE ROUTE TO ALL ACCESSIBLE SPACES OR ELEMENTS WITHIN THE BUILDING OR FACILITY.

DETECTABLE WARNINGS SHALL CONSIST OF RAISED TRUNCATED DOMES WITH A DIAMETER OF NOMINAL 0.9 IN (23MM), A HEIGHT OF NOMINAL 0.2 IN (5 MM) AND A CENTER-TO-CENTER SPACING OF NOMINAL 2.35 IN (60MM) AND SHALL CONTRAST VISUALLY WITH ADJOINING SURFACES, EITHER LIGHT-ON-DARK, OR DARK-ON-LIGHT.

**Cut/Fill Summary**

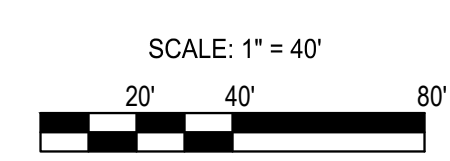
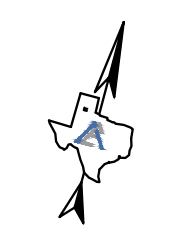
Name	Cut Factor	Fill Factor	2d Area	Cut	Fill	Net
FINISHED GRADE CUT FILL	1.000	1.000	119593.80 Sq. Ft.	801.48 Cu. Yd.	478.93 Cu. Yd.	322.55 Cu. Yd.<Cut>
Totals			119593.80 Sq. Ft.	801.48 Cu. Yd.	478.93 Cu. Yd.	322.55 Cu. Yd.<Cut>

APPROXIMATE LOCATION OF DUMPSTER TO REMAIN. DO NOT DISTURB DUMPSTER OR DUMPSTER PAD.



ALL CONCRETE CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE AMERICAN CONCRETE INSTITUTE OF CONCRETE PARKING LOTS (ACI 330R-08)

NOTE: PRIOR TO ANY SITE CONCRETE CONSTRUCTION, CONTRACTOR SHALL CONTACT CIVIL ENGINEER TO SCHEDULE PRE-CONSTRUCTION MEETING.



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**Buffalo Springs Campground S**  
 9999 HIGH MEADOW ROAD  
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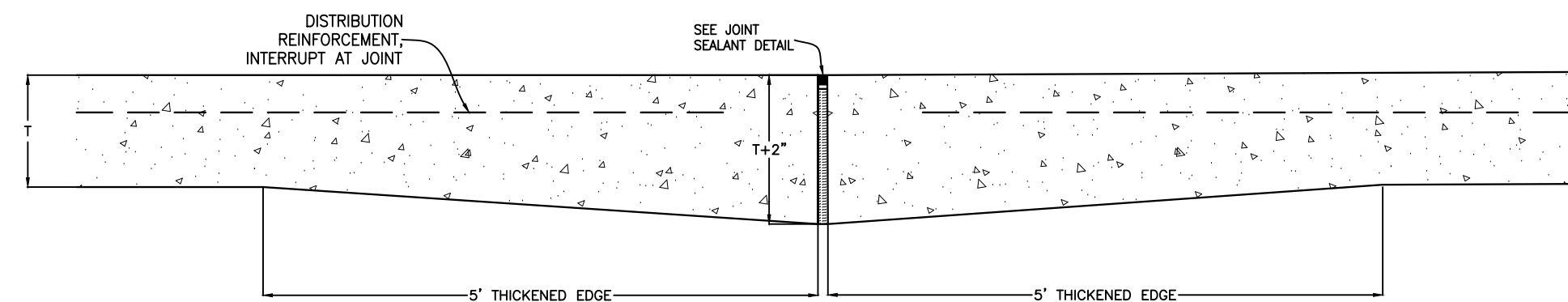
WESTIN G. MCCOWEN  
 140309  
 LICENSED PROFESSIONAL ENGINEER  
 MARCH 8, 2024

No.	DATE	REVISIONS

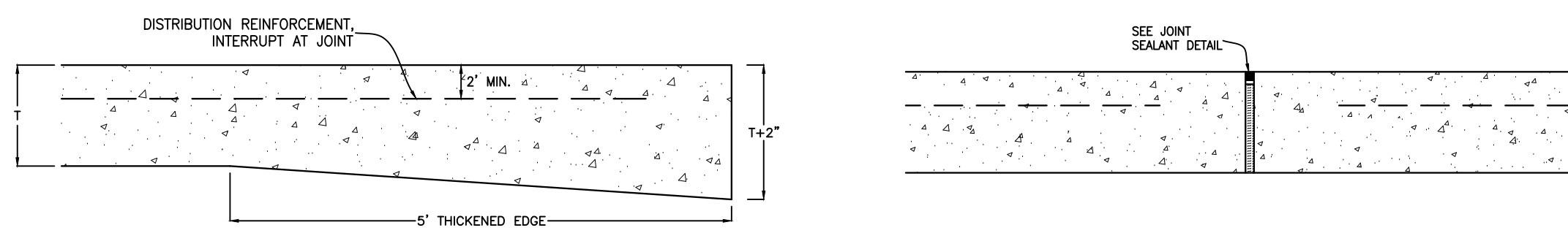
**SITE GRADING PLAN**

**C3.1**

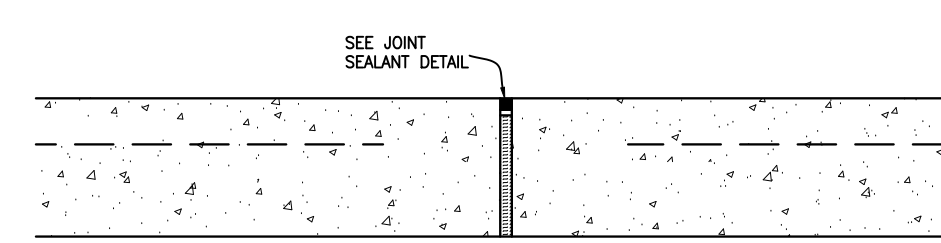




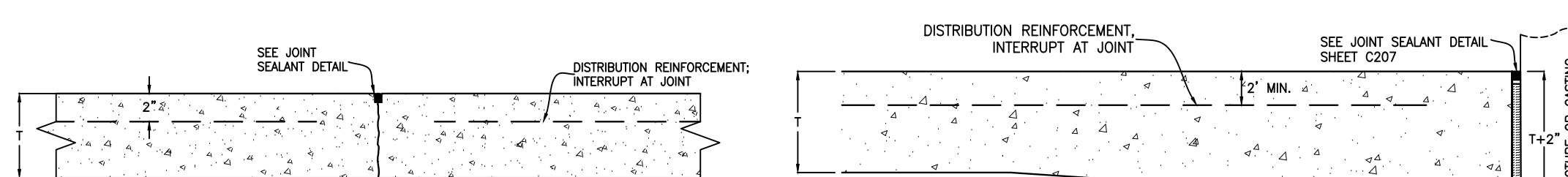
**A EXPANSION JOINT - THICKENED EDGE**  
NOT TO SCALE



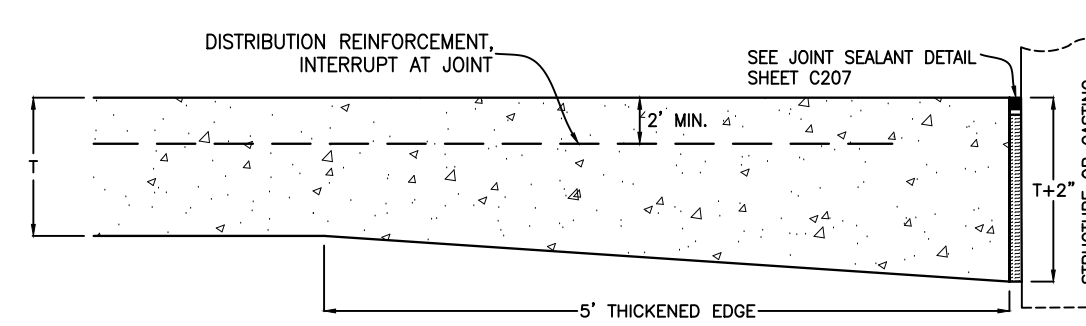
**B THICKENED EDGE**  
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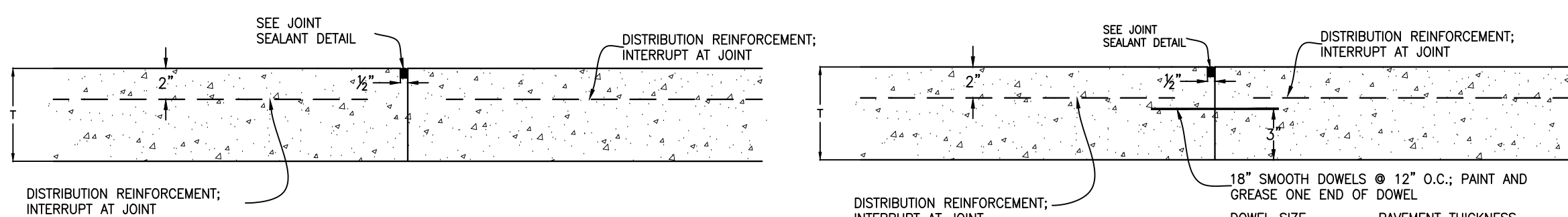
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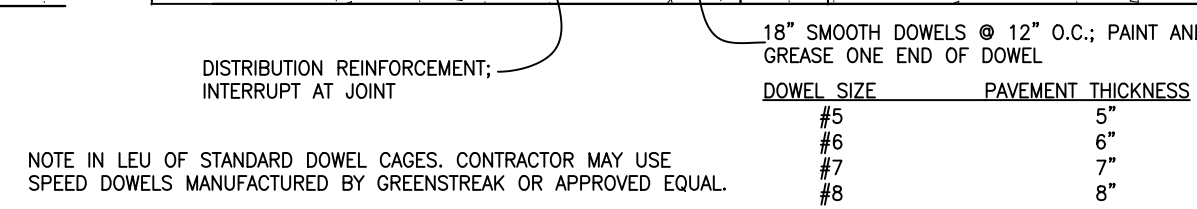
**D CONTRACTION JOINT - PLAIN DUMMY**  
NOT TO SCALE



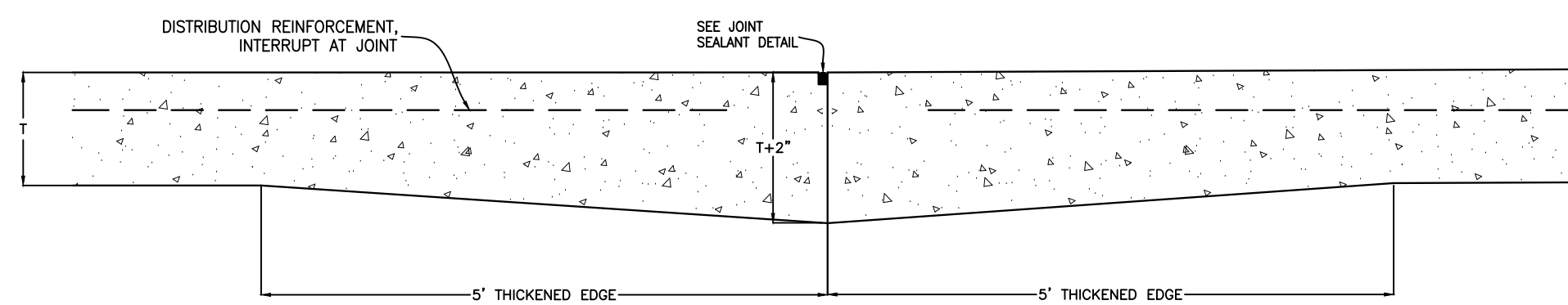
**E ISOLATION JOINT - THICKENED EDGE**  
NOT TO SCALE



**F CONSTRUCTION JOINT - PLAIN**  
NOT TO SCALE

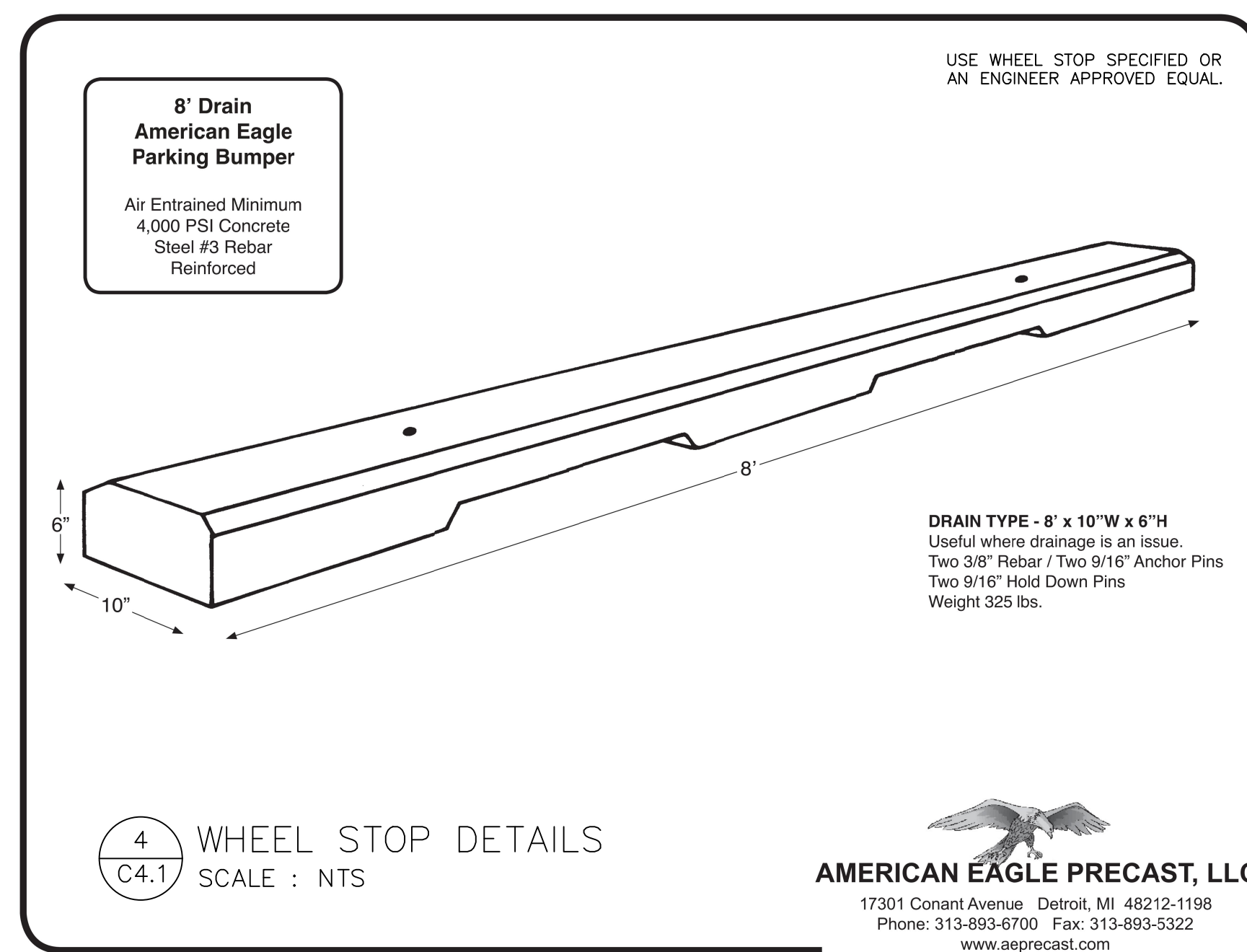


**G CONSTRUCTION JOINT - DOWELED**  
NOT TO SCALE



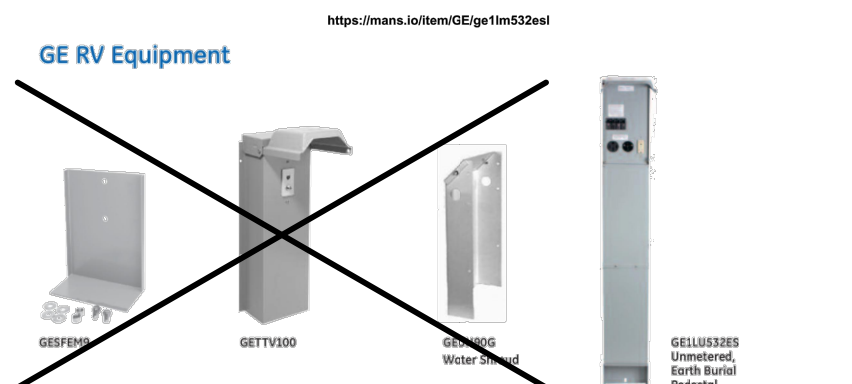
**H CONSTRUCTION JOINT - THICKENED EDGE**  
NOT TO SCALE

**1 JOINTS DETAIL**  
C4.1 SCALE : NTS



**4 WHEEL STOP DETAILS**  
C4.1 SCALE : NTS

**AMERICAN EAGLE PRECAST, LLC**  
17301 Conant Avenue Detroit, MI 48212-1198  
Phone: 313-893-6700 Fax: 313-893-5322  
www.aeprecast.com



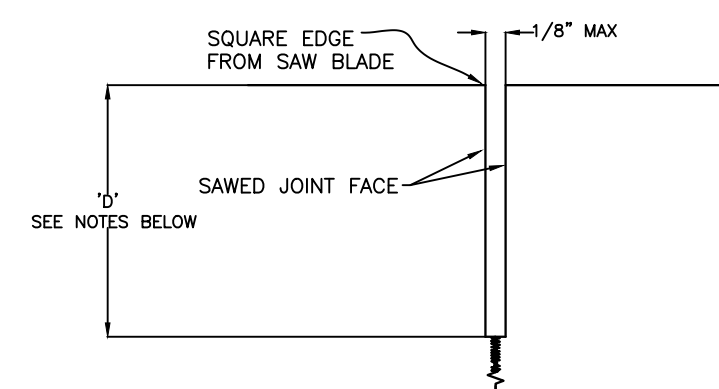
Model Number	Heads	Receptacles	Circuit Protection	Amps	Volts	Wire Range	Cabinet Size	Weight
GELM3245	1	50/70/90/60	THQ2150/THQ1130/THQ1130	100	120/240	12	REP 53	53
GELM3248	2	50/70/90/60	THQ2150/THQ1130/THQ1130	100	120/240	9	REP 52	52
GELM3249	1	50/70/90/60	THQ2150/THQ1130/THQ1130	100	120/240	12	REP 59	59
GELM3242A	1	50/70/90/60	THQ2150/THQ1130/THQ1130	100	120/240	12	REP 59	59
GELM3242B	1	50/70/90/60	THQ2150/THQ1130/THQ1130	100	120/240	12	REP 59	59

Model Number	Heads	Receptacles	Circuit Protection	Amps	Volts	Wire Range	Cabinet Size	Weight
GELM3245	1	50/70/90/60	THQ2150/THQ1130/THQ1130	100	120/240	12	REP 53	53
GELM3248	2	50/70/90/60	THQ2150/THQ1130/THQ1130	100	120/240	9	REP 52	52
GELM3249	1	50/70/90/60	THQ2150/THQ1130/THQ1130	100	120/240	12	REP 59	59
GELM3242A	1	50/70/90/60	THQ2150/THQ1130/THQ1130	100	120/240	12	REP 59	59
GELM3242B	1	50/70/90/60	THQ2150/THQ1130/THQ1130	100	120/240	12	REP 59	59

Model Number	Circuit Protection
GEPF6849	Earth Burial Shockless Base (same from back only)
GEPF6849	1\"/>

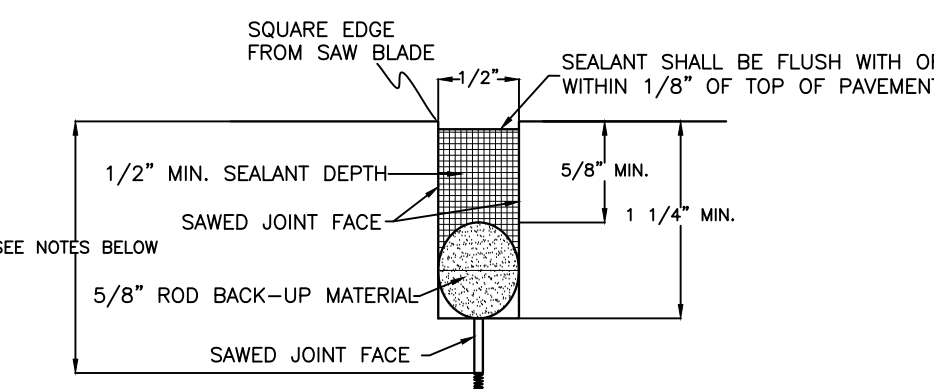
**2 EARTH BURIAL PEDESTAL DETAIL**  
C4.1 SCALE : NTS

**NOT USED**



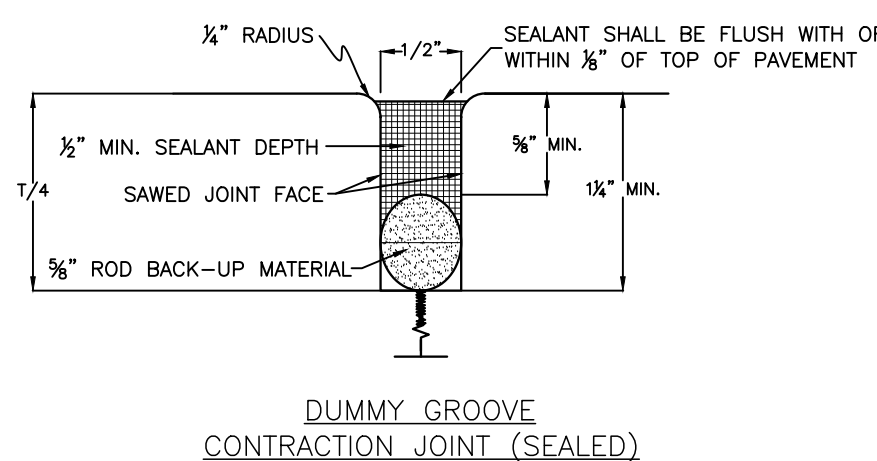
**SAWCUT CONTRACTION JOINT (NOT SEALED)**

T = THICKNESS OF CONCRETE  
D = 1\"/>



**SAWCUT CONTRACTION JOINT (SEALED)**

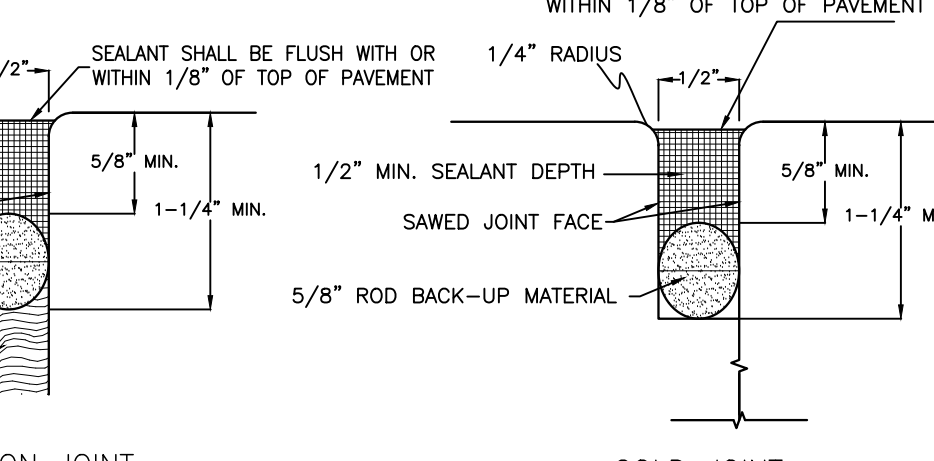
DEPTH NOTE: OF FIRST SAWCUT CAN BE 1\"/>



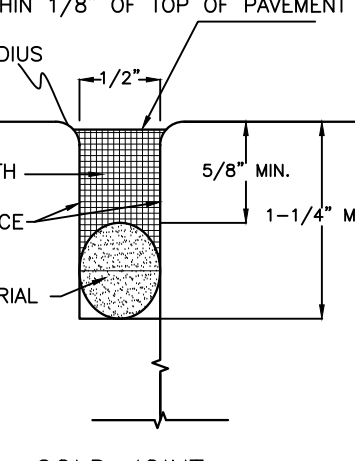
**DUMMY GROOVE CONTRACTION JOINT (SEALED)**

- JOINT SEALING MATERIALS SHALL MEET ONE OR MORE OF THE FOLLOWING:
  - ASTM D 6690, TYPE II - JOINT SEALANTS, HOT-POURED, FOR CONCRETE AND ASPHALT PAVEMENTS, TO BE USED IN JOINTS BETWEEN PORTLAND CEMENT CONCRETE AND BITUMINOUS CONCRETE.
  - ASTM D 6690, TYPE II - JOINT SEALANTS, HOT-POURED, ELASTOMERIC-TYPE, FOR PORTLAND CEMENT CONCRETE PAVEMENTS, TO BE USED IN JOINTS IN CONCRETE PAVEMENT.
- JOINT SEALING MATERIALS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

**5 JOINT SEALANT DETAIL**  
C4.1 SCALE : NTS

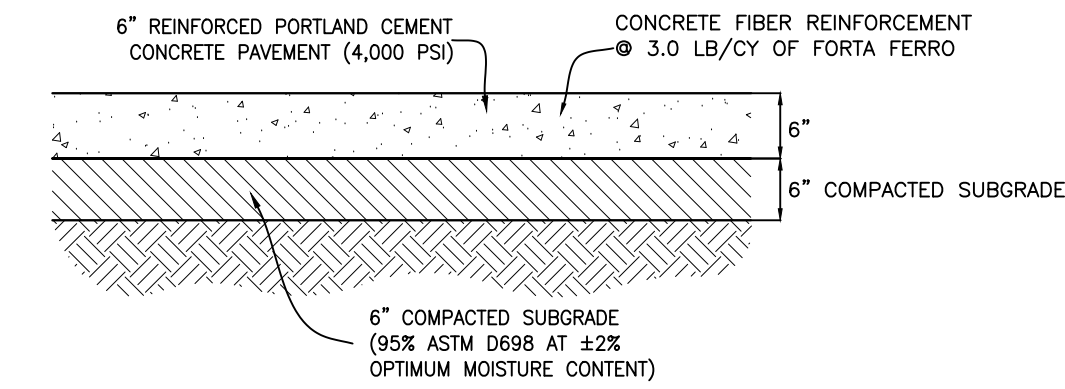


**EXPANSION JOINT**



**COLD JOINT**

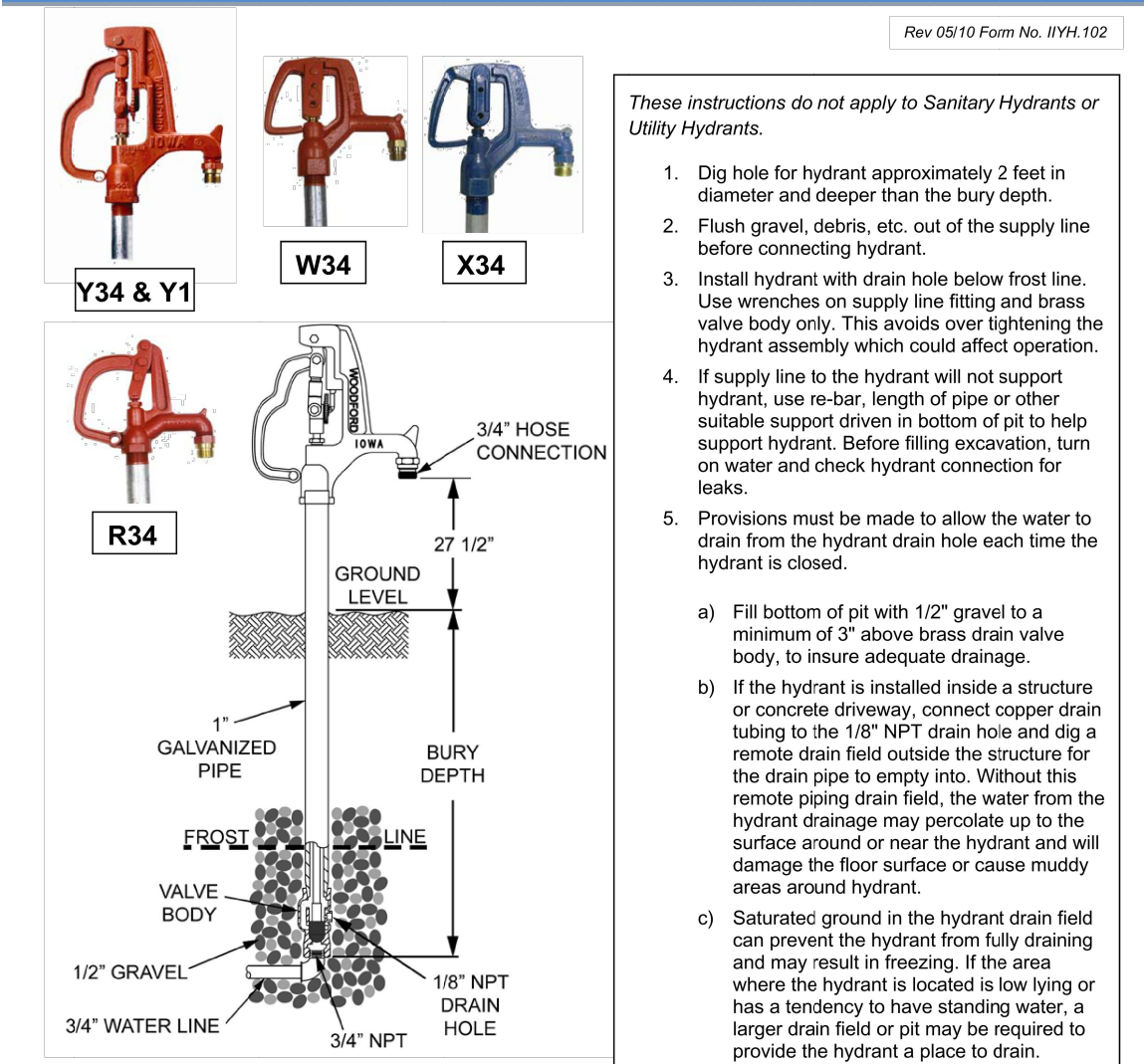
CONCRETE JOINTS CAN EITHER BE SEALED OR UNSEALED UPON DISCRETION OF THE OWNER. COORDINATE WITH THE OWNER FOR THEIR DESIRE TO HAVE SEALED OR UNSEALED JOINTS PRIOR TO CONCRETE PLACEMENT. UNSEALED CONTRACTION JOINTS SHALL BE SAWCUT A MAXIMUM OF 1/8\"/>



- CONCRETE SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 4,000 PSI FOR ALL CONCRETE PAVING.
- SCARIFY AND RECOMPACT MINIMUM TOP 6\"/>

**3 STANDARD DUTY CONCRETE PAVEMENT**  
C4.1 SCALE : NTS

**NOT USED**



**6 FREEZELESS YARD HYDRANT DETAIL**  
C4.1 SCALE : NTS

**Buffalo Springs Campground S**  
9999 HIGHMEADOW ROAD  
LUBBOCK, TEXAS 79404

**AUTREY ENGINEERING**  
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**WESTIN G. MCCOWEN**  
140309  
MARCH 8, 2024

No.	DATE	REVISIONS

**SITE DETAILS**

**C4.1**