



ENGINEER:



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SURVEY

VAULT STORAGE

16525 S. BROADWAY ST., GLENPOOL, OK 74033

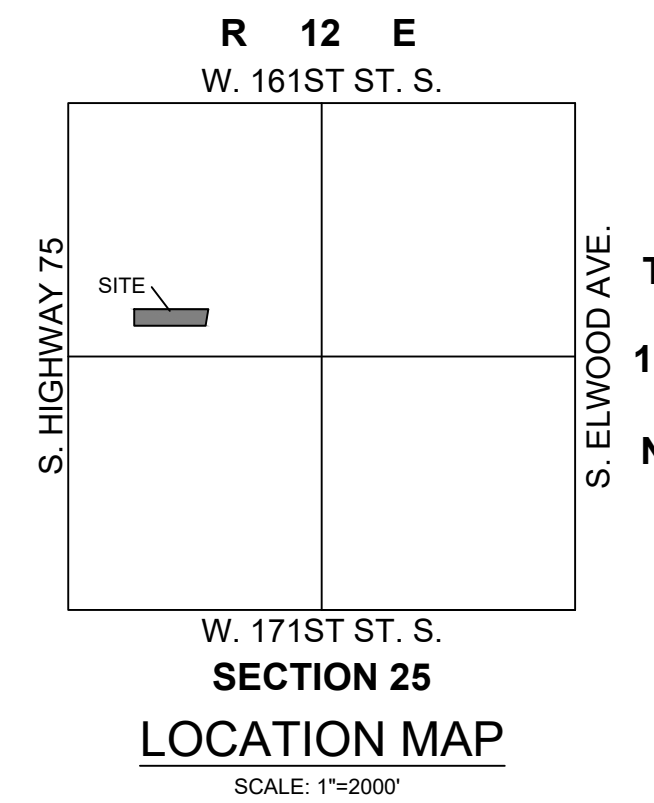
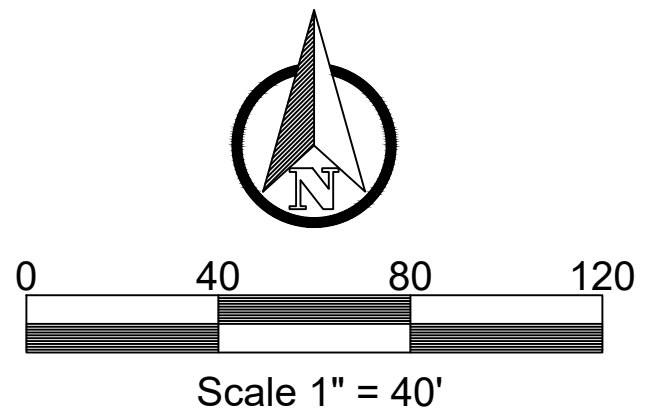
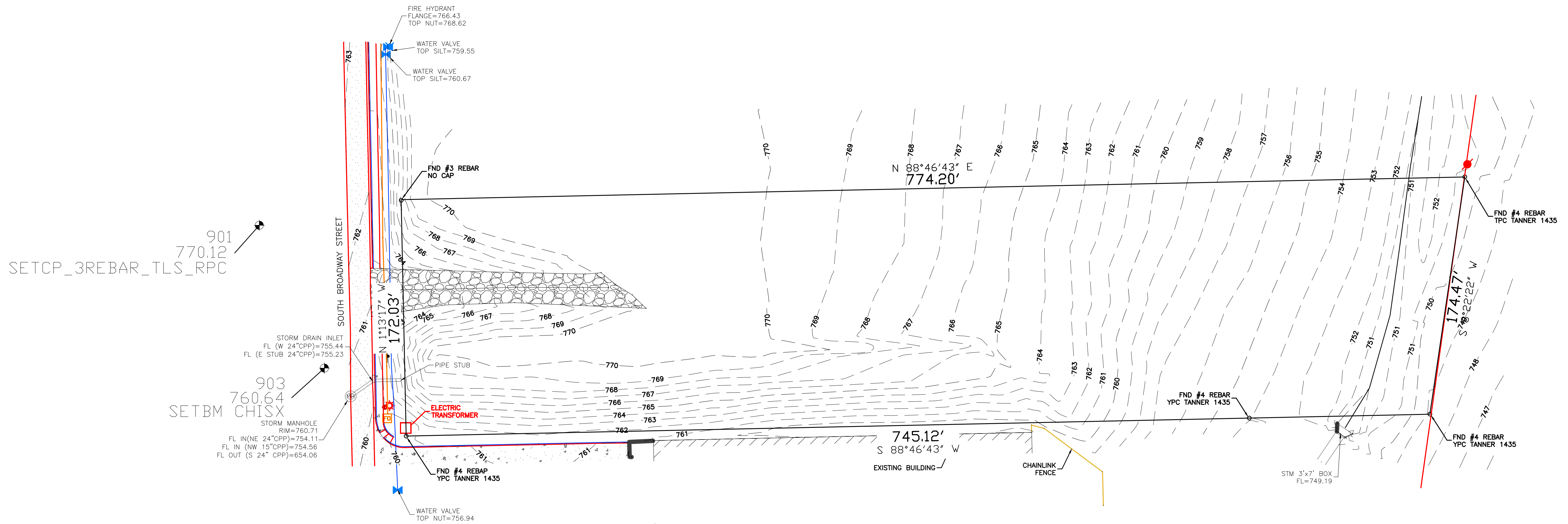
STATUS: FINAL

PROJECT NO.	20260724
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SCALE:
 $1'' = 40'$

DATE:
7/24/26

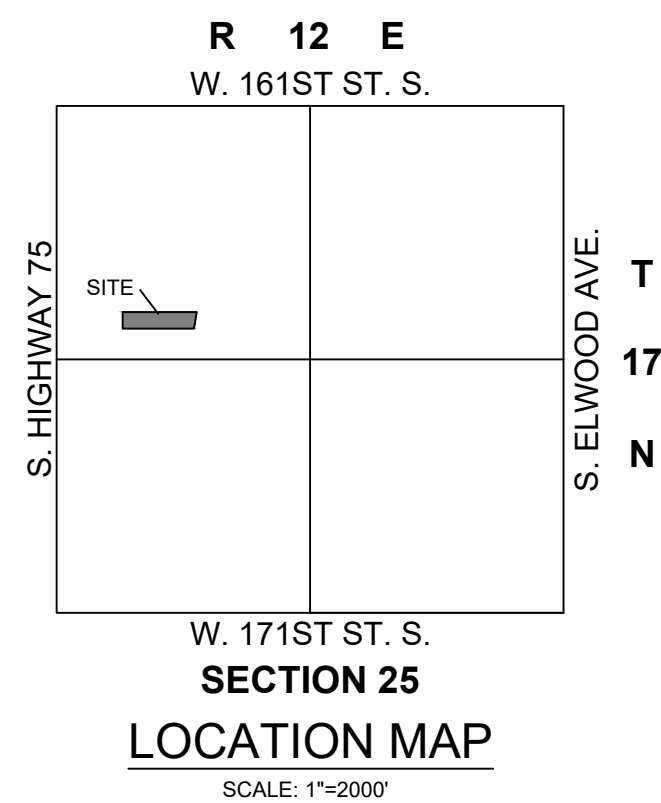
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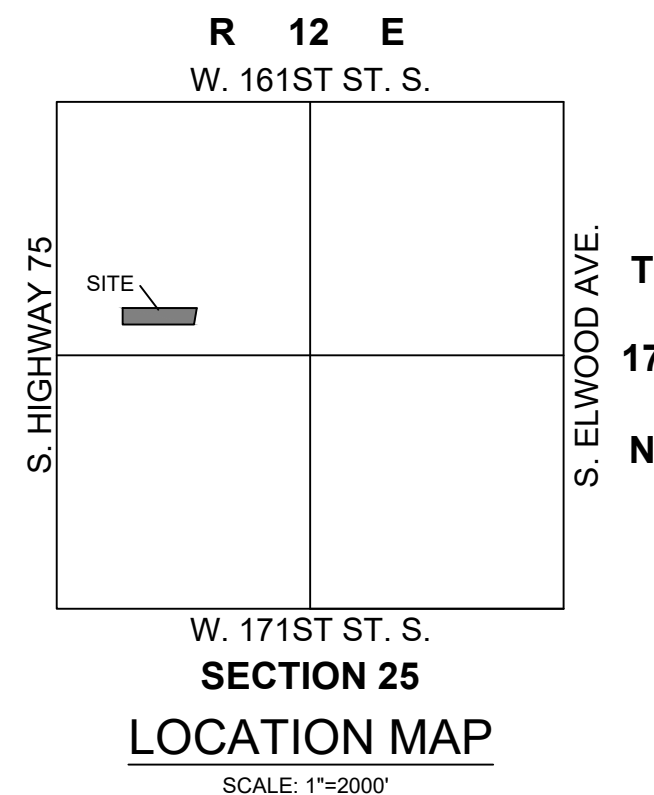
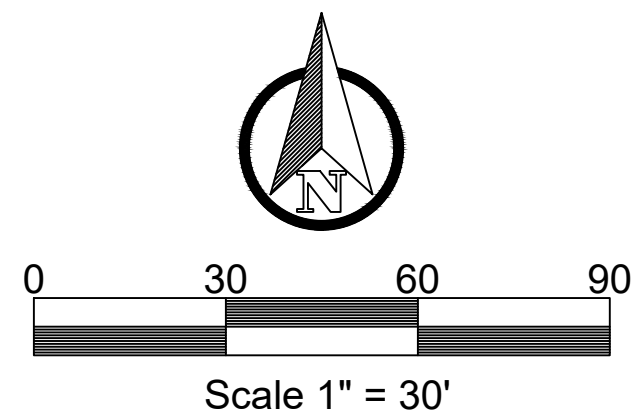
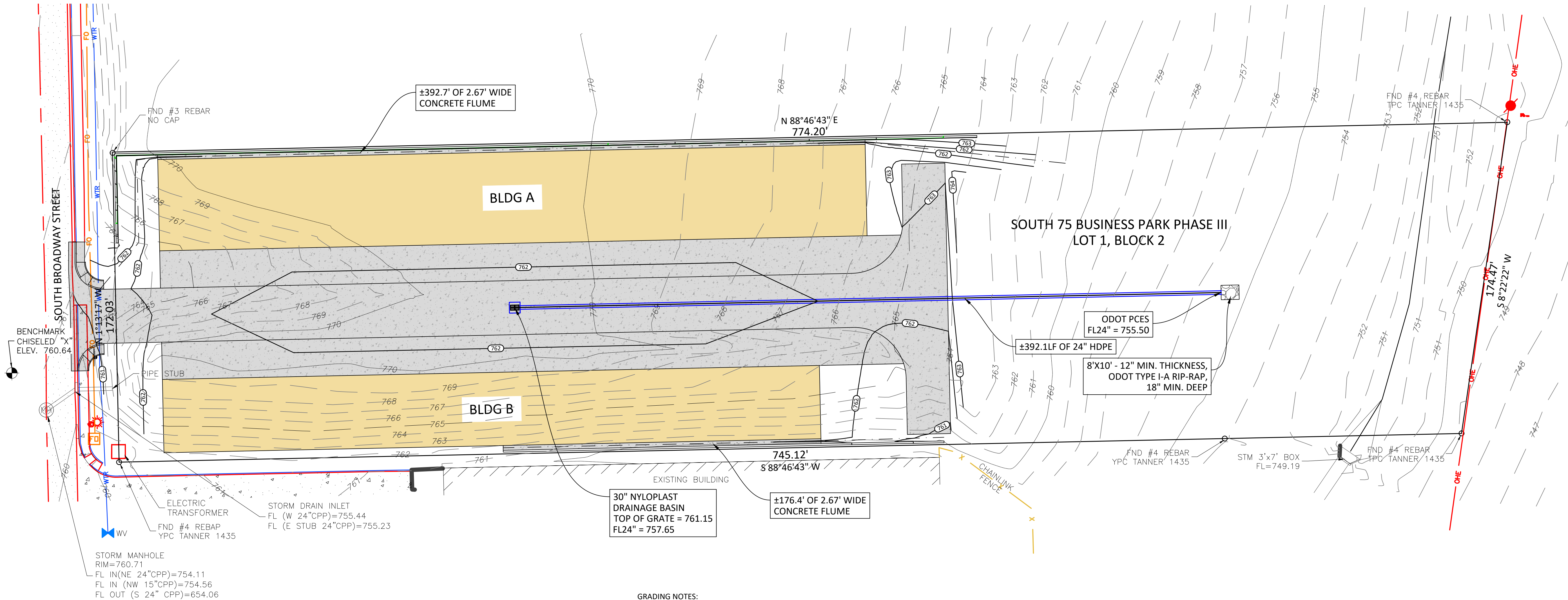


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902
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GRADING NOTES:

- ALL GRADING SHALL MEET OR EXCEED TULSA COUNTY CONSTRUCTION STANDARDS AND CITY OF GLENPOOL POLICY.
- THE CONTRACTOR SHALL VERIFY UTILITY LOCATIONS BEFORE EXCAVATING.
- TOPSOIL SHALL BE STRIPPED TO A DEPTH WHERE SOIL IS FREE OF ROOTS AND VEGETATION.
- SUBGRADE STABILIZATION SHALL BE AT THE DIRECTION OF THE ENGINEER OR AS SPECIFIED IN THE SUBSURFACE GEOTECHNICAL REPORT.
- 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 THE GEOTECHNICAL ENGINEER TO VERIFY THAT THE SOFT SPOTS ARE PROPERLY OVER-EXCAVATED AND REPLACED OR STABILIZED.
- CONTRACTOR SHALL PROVIDE WATER AS REQUIRED TO OBTAIN SPECIFIED COMPACTION.
- STRIPPING, PROOF ROLLING, SUBGRADE SCARIFICATION, COMPACTION, AND FILL CONSTRUCTION IN THE BUILDING AND PAVING AREAS SHALL BE PERFORMED ACCORDING TO THE SUBSURFACE GEOTECHNICAL REPORT.
- EMBANKMENT BENEATH BUILDING PADS OR FOR PAVING SUBGRADE SHALL BE PLACED IN LIFTS NOT EXCEEDING 8 INCHES AND COMPACTED TO A MINIMUM OF 95% STANDARD PROCTOR DENSITY AT OPTIMUM MOISTURE CONTENT UNLESS OTHERWISE.
- THE CONTRACTOR IS ULTIMATELY RESPONSIBLE TO IMPORT OR EXPORT MATERIAL AS NECESSARY TO ACHIEVE THE GRADES SHOWN ON THE CONSTRUCTION PLANS.
- THE CONTRACTOR IS RESPONSIBLE FOR RETURNING ALL IN-PLACE FINAL TRIM AREAS TO CONDITION PRIOR TO PLACING TOPSOIL. TOPSOIL SHALL BE PLACED AND ACCEPTED PRIOR TO THE PLACEMENT OF SOD.
- FINAL GRADES OF SURFACE UTILITIES NOT IN PAVED AREAS, INCLUDING BUT NOT LIMITED TO; STORM SEWER MANHOLE LIDS, WATER METER LIDS AND SEWER CLEANOUTS, ARE TO BE ADJUSTED BY THE UTILITY CONTRACTOR TO CONFORM TO LANDSCAPING SOD INSTALLATION.
- PAVING CONTRACTOR IS RESPONSIBLE TO REVIEW ALL FIELD ESTABLISHED GRADES PRIOR TO PLACEMENT OF MATERIALS SO AS TO PROVIDE POSITIVE DRAINAGE IN ALL CASES.
- CORRECTIVE MEASURES DIRECTED BY THE ENGINEER MAY INCLUDE COMPLETE REMOVAL AND REPLACEMENT AT NO COST TO OWNER IN CASES OF POOR WORKMANSHIP OR UNSATISFACTORY IN PLACE CONDITIONS.
- 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.
- CONTRACTOR AND ALL RELATED CONSTRUCTION ACTIVITIES WILL BE REQUIRED TO MAINTAIN NORMAL WORKING HOURS IF SIGNIFICANT PUBLIC REQUEST IS MADE TO THE CITY.
- SITE GRADING IS EXPECTED TO BE PERFORMED IN A MANNER CONSISTENT WITH THE STORMWATER POLLUTION PREVENTION PLAN.
- FINISHED GRADING FOR BUILDING PAD CONSTRUCTION SHALL NOT EXCEED A MAXIMUM ALLOWABLE SLOPE OF 4:1.



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CA# 8405 EXP 6-30-27

ENGINEER:



DATE: 7/27/26



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DATE:

MILESTONE:

TITLE: GRADING PLAN

SITE: VAULT STORAGE

CLIENT: 16525 S. BROADWAY ST., GLENPOOL, OK 74033

STATUS:

FINAL

PROJECT NO.

20260724

SCALE:

1" = 30'

DRAWING NO:

DATE:

7/24/26

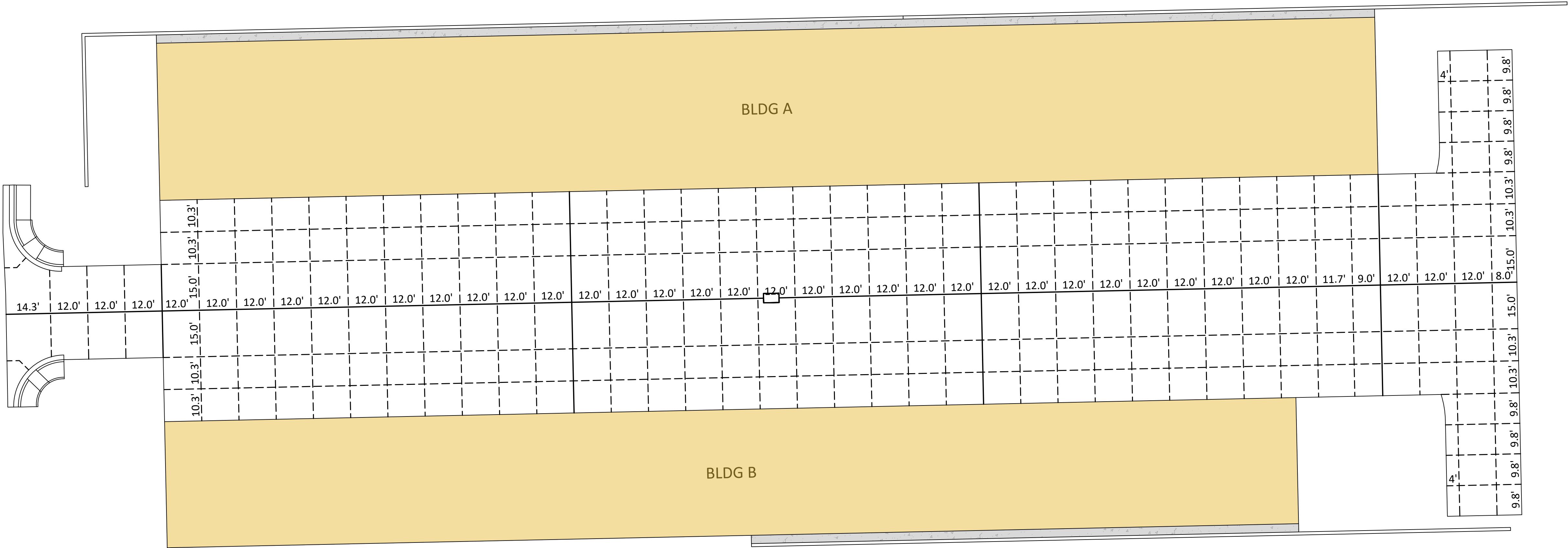
DRAWN:

JC

CHECKED:

MS

3



PAVING NOTES:

- NOTES THE PAVING CONTRACTOR SHALL NOTIFY THE CITY PUBLIC WORKS DEPARTMENT AT LEAST 24 HOURS PRIOR TO START OF CONSTRUCTION.
- ALL UTILITY CONSTRUCTION: WATER, SEWER, AND STORMWATER SHALL BE COMPLETED PRIOR TO SUBGRADE PREPARATION.
- SUBGRADE SHALL BE FREE OF ALL ORGANIC MATTER, TREATED, AND COMPACTED ACCORDING TO THE PLANS AND SPECIFICATIONS.
- SUBGRADE STABILIZATION SHALL BE AT THE DIRECTION OF THE ENGINEER, OR AS SPECIFIED IN SUBSURFACE GEOTECHNICAL REPORT.
- PAVING CONTRACTORS SHALL BE RESPONSIBLE FOR REPAIR OF UNACCEPTABLE SUBGRADE AT ALL UTILITY, CABLE, OR CONDUIT CROSSINGS.
- PAVING CONTRACTOR SHALL INSPECT SUBGRADE PRIOR TO COMMENCING WORK; AND SHALL REPAIR AREAS WHERE GRADE VARIES MORE THAN 0.1 FEET, WHERE DENSITY IS LESS THAN 95% STANDARD PROCTOR OR WHERE SUBGRADE DRAINAGE IS INADEQUATE, AT THE UNIT PRICE BID FOR FINE GRADING IN THE PROPOSAL. SUBGRADE MODIFICATIONS, WHERE REQUIRED, SHALL NOT COMMENCE UNTIL SUBGRADE REPAIRS HAVE BEEN ACCEPTED BY THE ENGINEER OR OWNERS REPRESENTATIVE.
- SEQUENCE OF CONSTRUCTION FOR STABILIZED SUBGRADES SHALL BE BLUE TOP IN FINE GRADE, LIME OR FLY ASH TREAT AND STABILIZE, AND THEN FINAL BUYING GRADING.
- COMPACTION TESTS SHALL BE TAKEN A MINIMUM OF ONCE EVERY 4000 SQUARE FEET FOR EACH 8 INCH LIFT OF MATERIAL.
- SUBGRADE SHALL BE PROOF ROLLED IF THE STABILITY OF THE MATERIAL IS QUESTIONED. ALSO, THE SUBGRADE EXPOSED AFTER STRIPPING AND COMPLETING ANY CUT SHALL BE PROOF ROLLED ACCORDING TO THE GEOTECHNICAL REPORT.
- PORTLAND CEMENT CONCRETE SHALL HAVE A 28 DAY COMPRESSIVE STRENGTH OF NOT LESS THAN 3500 PSI, A SLUMP OF NOT MORE THAN 3 INCHES, AND SHALL CONTAIN 6% AIR PLUS OR MINUS 1%
- ASPHALTIC CONCRETE SHALL HAVE A DENSITY OF NOT LESS THAN 94% AND NOT MORE THAN 96% , AND A STABILITY OF NOT LESS THAN 40%.

PAVING NOTES (CONT.):

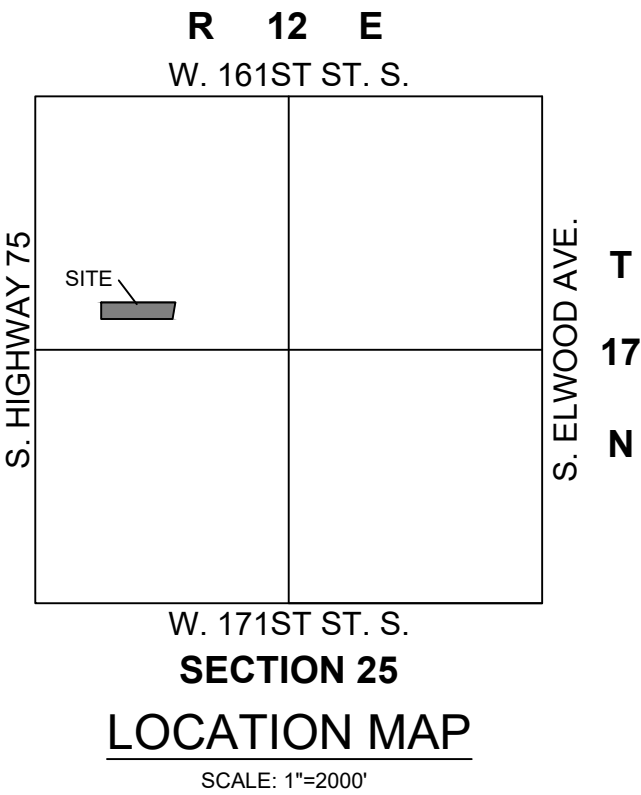
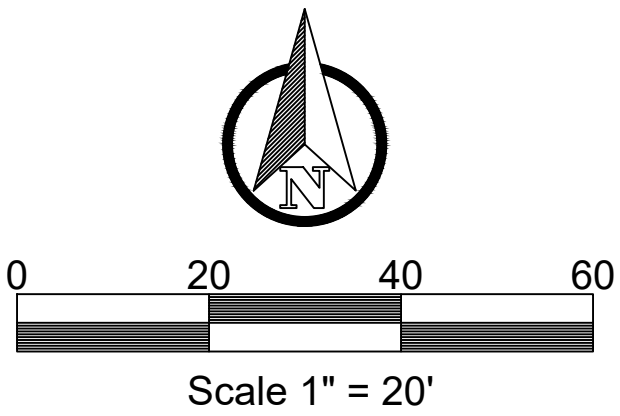
- THE CONTRACTOR SHALL FURNISH THE FOLLOWING TESTING SERVICES BY A REPUTABLE INDEPENDENT TESTING LABORATORY APPROVED BY THE OWNERS' REPRESENTATIVE:
 - FIELD DENSITY TESTS OF EMBANKMENT, SUBGRADE, OR BASE, AT LOCATION SPECIFIED BY THE INSPECTOR.
 - PLASTICITY TESTS OF THE SUBGRADE LOCATION SPECIFIED BY THE ENGINEER.
 - MOISTURE DENSITY CURVES FOR MATERIAL TO BE USED FOR EMBANKMENT OR SUBGRADE CONSTRUCTION.
 - MIXED DESIGNS FOR PORTLAND CEMENT CONCRETE AND ASPHALT AND CONCRETE.
 - AGGREGATE GRADATION TESTS.
 - STABILITY, DENSITY, BITUMINOUS CONTENT AND GRADATION TESTS OF ASPHALTIC CONCRETE EVERY 200 TONS OR DAILY WHICHEVER IS LESS.
 - COMPRESSION TEST OF CONCRETE CYLINDERS AT 7 AND 28 DAYS WITH ONE OF EACH TEST CONDUCTED FOR EVERY 100 CUBIC YARDS PLACED.
 - ONE CORE SAMPLE, AT A LOCATION SPECIFIED BY THE INSPECTOR FOR EVERY 4000 SQUARE FEET OF PAYMENT.
- THE CONTRACTOR SHALL FURNISH CERTIFICATION FROM THE MANUFACTURER THAT ALL MATERIALS MEET APPLICABLE SPECIFICATIONS. COPIES OF MATERIAL CERTIFICATION SHALL BE FURNISHED TO THE DEVELOPER PRIOR TO INSTALLATION OR INCORPORATION OF MATERIAL IN THE WORK.
- THE PAVING CONTRACTOR SHALL ADJUST ALL VALVE BOXES, MANHOLES, ETC. TO GRADE AFTER PAVING HAS BEEN COMPLETED.
- PAVEMENT STRIPING SHALL BE CONTRACTOR GRADE, ACRYLIC STRIPING PAINT APPLIED WITH A COMMERCIAL COMPRESSED AIR OR AIRLESS SPRAY STRIPING MACHINE CAPABLE OF APPLYING AN EVEN COATING AT THE MANUFACTURER'S RECOMMENDED THICKNESS IN AN EVEN WIDTH ACROSS THE STRIPE. MARKING PAINT SHALL BE APPLIED STRAIGHT AND EVEN AT A RATE OF ONE GALLON PER 3 TO 400 LINEAR FEET OF 4 INCH WIDE STRIPES. APPLY MARKING PAINT IN DRY WEATHER WHEN PAVEMENT AN ATMOSPHERIC TEMPERATURES ARE 50 DEGREES F OR ABOVE AND ARE ANTICIPATED TO REMAIN ABOVE 50 DEGREES F FOR 4 HOURS AFTER COMPLETING APPLICATION.

NOTES:

- PROVIDE 3/4" EXPANSION JOINT WHERE SHOWN ALONG EDGE OF BUILDINGS AND CONCRETE PADS.
- PROVIDE JOINT SEALANT ON ALL CONTRACTION AND EXPANSION JOINTS.
- REFER TO SHEET XX FOR MISCELLANEOUS DETAILS.
- CONTRACTOR TO PROVIDE HIS OWN JOINT LAYOUT PLAN FOR ENGINEER/OWNER APPROVAL PRIOR TO PLACEMENT OF CONCRETE.

LEGEND:

----- EXPANSION JOINT
----- CONTRACTION JOINT



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ENGINEER:



DATE: 7/27/26



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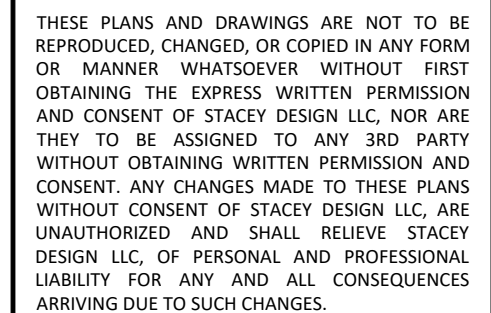
DATE:

MILESTONE:

TITLE: PAVING PLAN		STATUS: FINAL	
SITE: VAULT STORAGE		PROJECT NO.: 20260724	
CLIENT: 16525 S. BROADWAY ST., GLENPOOL, OK 74033		SCALE: 1" = 20'	
		DRAWING NO.: 5	
		DATE: 7/24/26	
		DRAWN: JC	
		CHECKED: MS	



DATE: 7/27/26



MILESTONE:

PAVING DETAILS

VAULT STORAGE

CLIENT: 16525 S. BROADWAY ST., GLENPOOL, OK 74033

STATUS:	FINAL
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PROJECT NO.	20260724
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SCALE: 1" = N/A	DRAWING NO.
DATE: 7/24/26	
DRAWN: JC	
CHECKED: MS	

6

TIE BARS ARE DEFORMED #4 OR #5 REINFORCING STEEL BARS.

WHEN THE DISTANCE TO THE CLOSEST FREE EDGE EXCEEDS 24',
PROVIDE A STANDARD LOAD TRANSFER TIED JOINT WITH #4 BARS
AT 24" OR #5 BARS AT 38" SPACING.



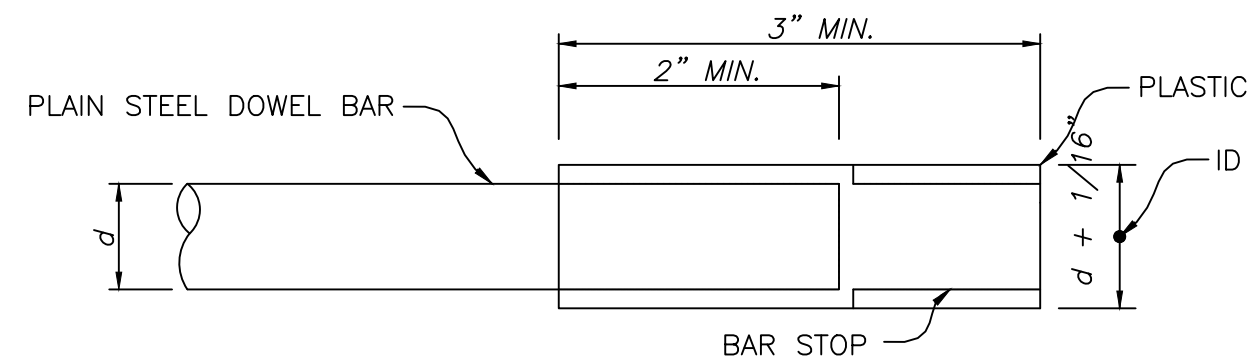
LONGITUDINAL BUTT CONSTRUCTION JOINT

- ① 6" REINFORCED CONCRETE 3,500 PSI
WITH #4 REBAR @ 18" C-C EACH WAY
- ② 6" MINIMUM ODOT TYPE A AGGREGATE BASE
COMPACT TO AT LEAST 95% STANDARD PROCTOR DENSITY
- ③ COMPACT SUBGRADE TO AT LEAST 95% STANDARD PROCTOR DENSITY

NOTE:
CONTRACTOR TO REFERENCE GEOTECHNICAL REPORT FOR TYPICAL
SECTION OF PAVEMENT.

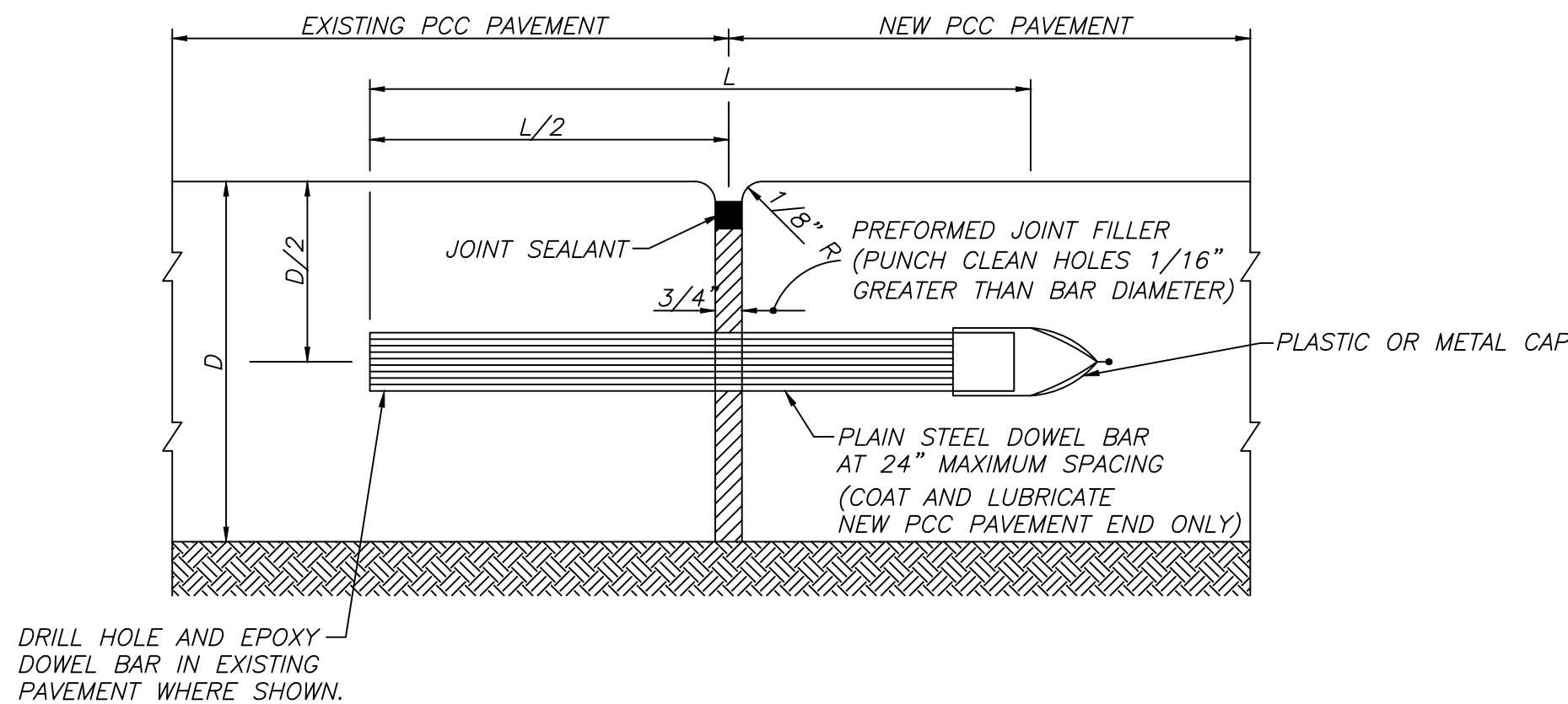
PCC PAVEMENT SECTION

SCALE: NTS



METAL OR PLASTIC CAPS FOR DOWEL BARS

SCALE: NTS



EXPANSION JOINT

SCALE: NTS



SCALE: NTS

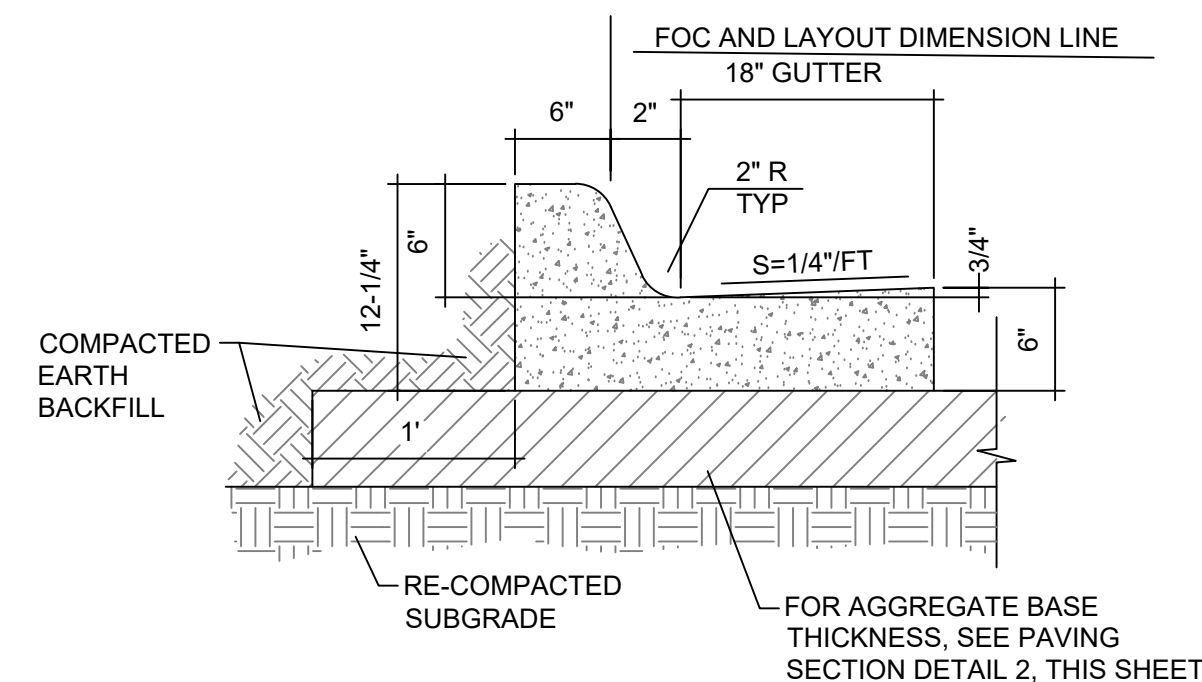
DOWELS (LENGTH 18")	
PAVEMENT THICKNESS "D	DIAMETER
6"-6 1/2"	3/4"
7"-8 1/2"	1"
9"-10 1/2"	1 1/4"
≥11"	1 1/2"

GENERAL NOTES:

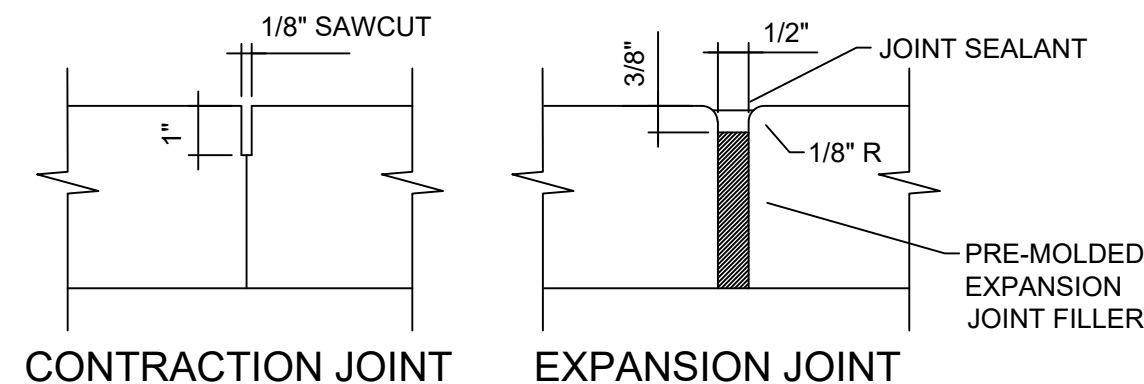
1. CONTRACTOR TO INSTALL 1/2" EXPANSION JOINT MATERIAL BETWEEN OUTLET STRUCTURE AND END OF CONCRETE FLUME.
2. CONTRACTOR TO INSTALL A CONCRETE TOE 2'-0" DEEP AT THE BEGINNING AND END OF THE CONCRETE FLUME.



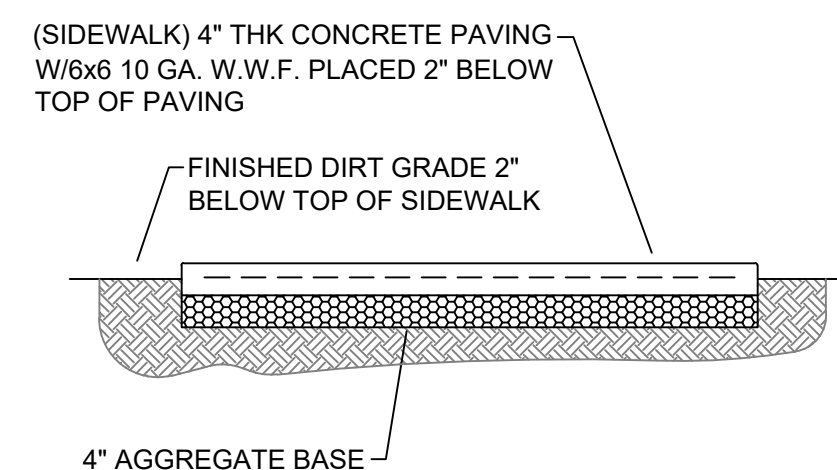
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CURB AND GUTTER DETAIL



SIDEWALK JOINT DETAILS

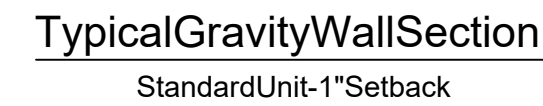
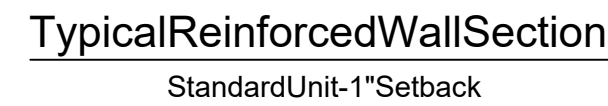
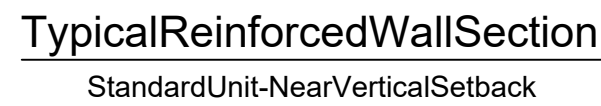


SIDEWALK DETAILS

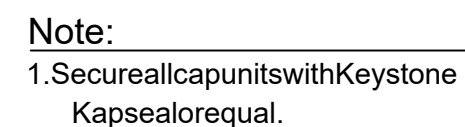
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16525 S. BROADWAY ST., GLENPOOL, OK 74033

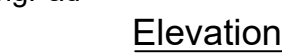
7



CapUnit	
Width:	18"
*Depth:	10 1/2"
Height:	4"
*Weight:	45lbs



TopofWallSteps



Note:

1. The leveling pad is to be constructed of crushed stone or 2000 psi $\pm$ unreinforced concrete.



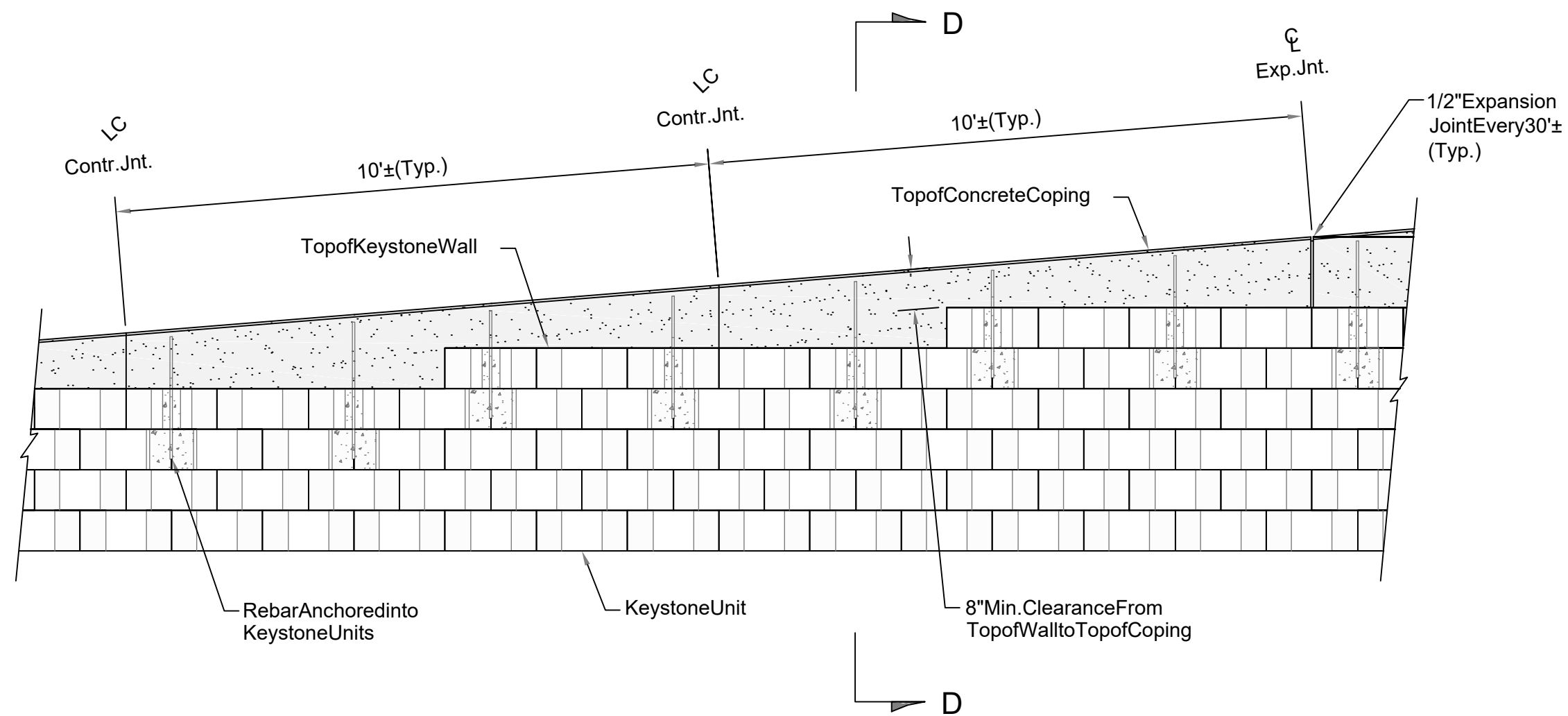
Universal CapUnitOption



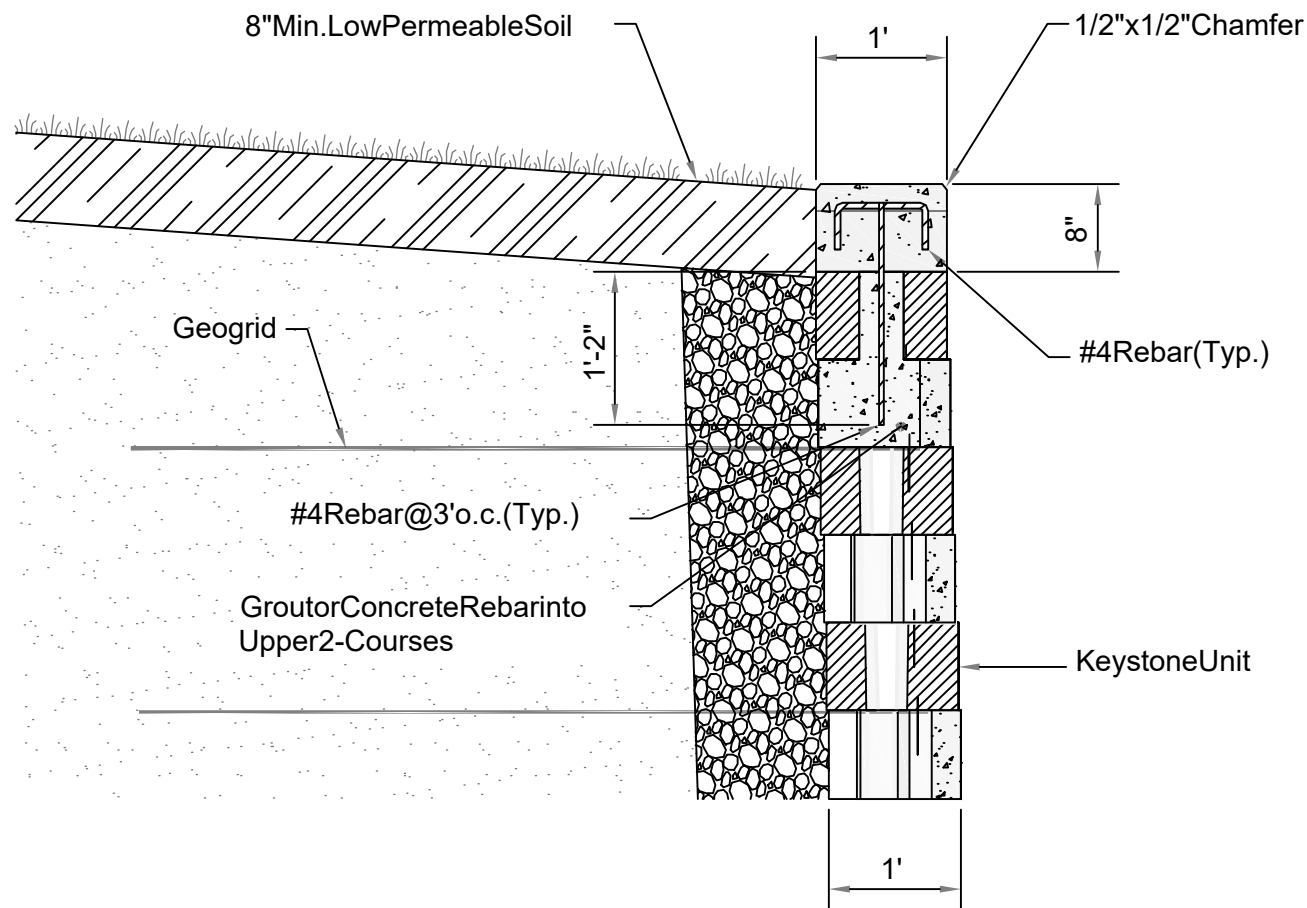
Universal CapUnitOption

3-PlaneSplit CapUnitOption

Dimensions&Availability
WillVarybyRegion

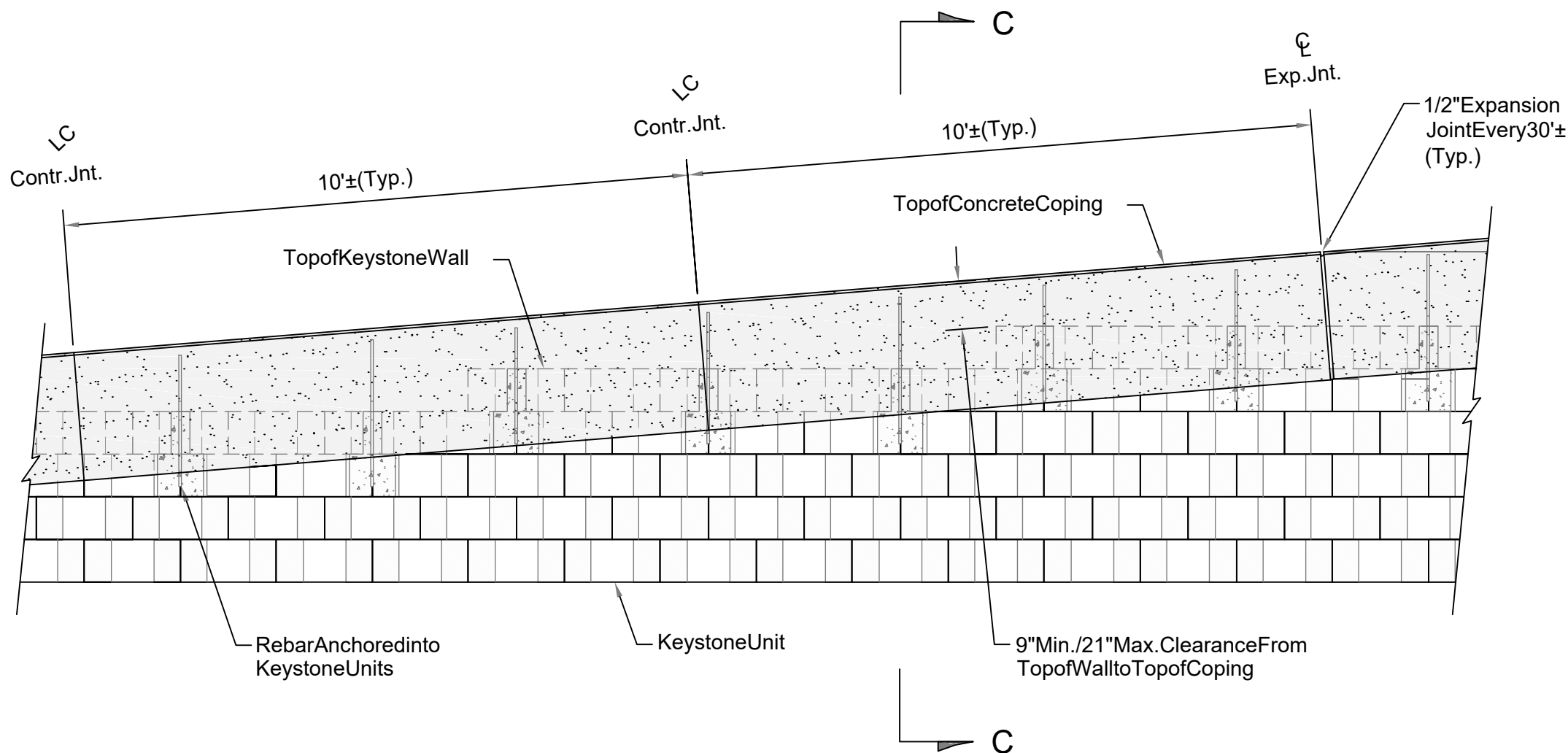


Partial C.I.P. Top Concrete Coping Elevation

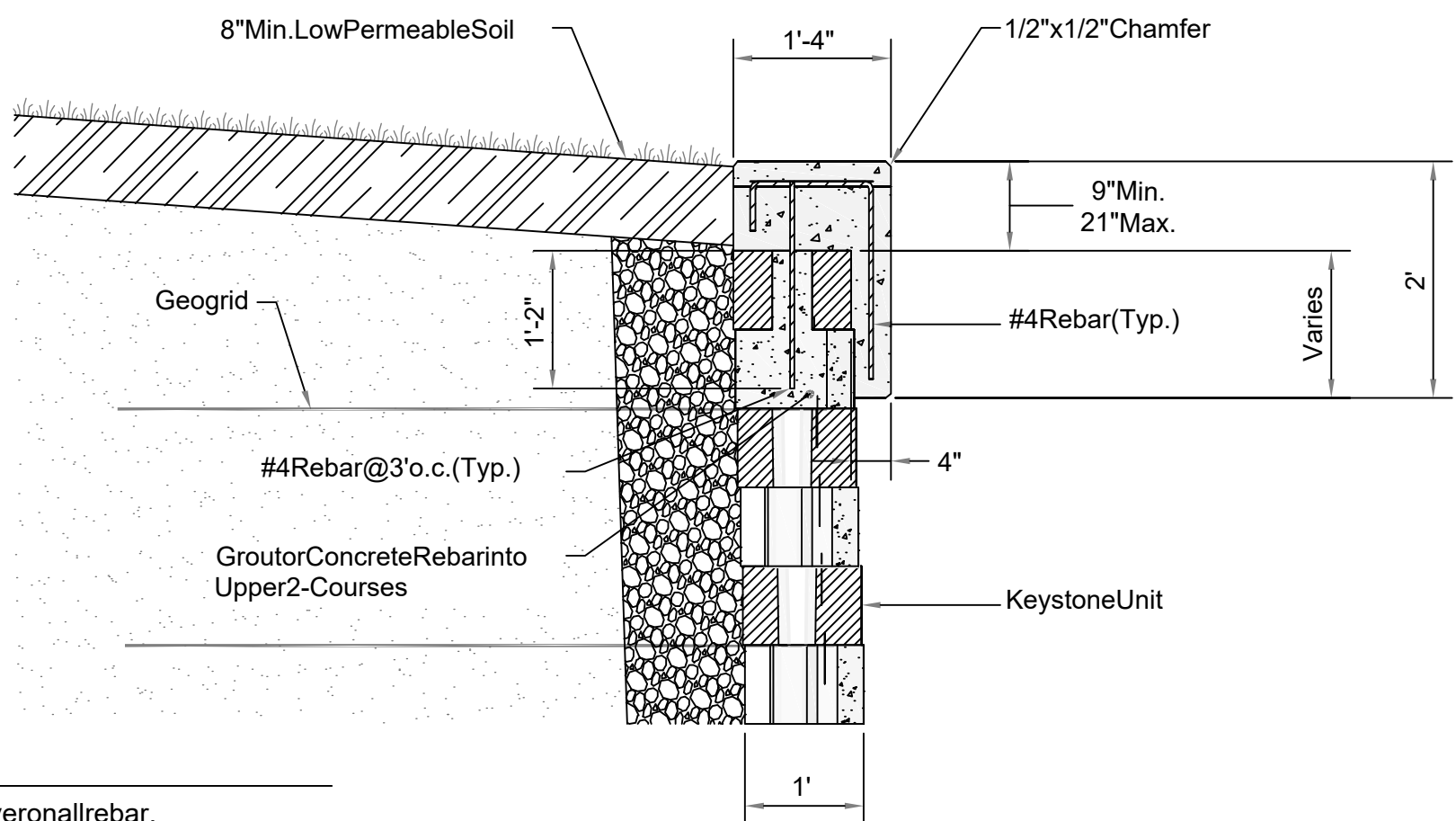


- Note:
1. Maintain 2" minimum cover on all rebar.
 2. Full expansion joints shall be placed every 3rd joint and at all wall radius and bend points.

Section D-D
C.I.P. Top Concrete Coping



Partial C.I.P. Concrete Coping Elevation



- Note:
1. Maintain 2" minimum cover on all rebar.
 2. Full expansion joints shall be placed every 3rd joint and at all wall radius and bend points.
 3. Insure that all top of wall steps are completely covered by overhang of concrete coping (3" min.).

Section C-C
C.I.P. Concrete Coping



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ENGINEER:



DATE: 7/27/26



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DATE:

MILESTONE:

TITLE: RETAINING WALL DETAILS 2 OF 2

SITE: VAULT STORAGE

CLIENT: 16525 S. BROADWAY ST., GLENPOOL, OK 74033

STATUS: FINAL

PROJECT NO. 20260724

SCALE: 1" = N/A

DATE: 7/24/26

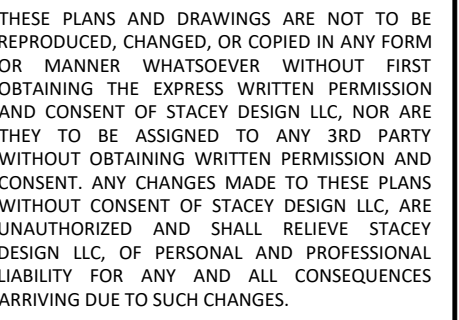
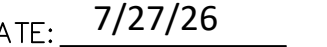
DRAWN: JC

CHECKED: MS

8



ENGINEER:

[illegible]

EROSION CONTROL PLAN

VAULT STORAGE

16525 S. BROADWAY ST., GLENPOOL, OK 74033

STATUS: FINAL

PROJECT NO. 20260724

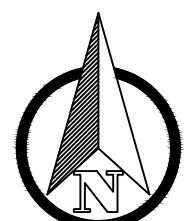
SCALE:
1" = 30'

DATE:
7/24/26

RAWN:
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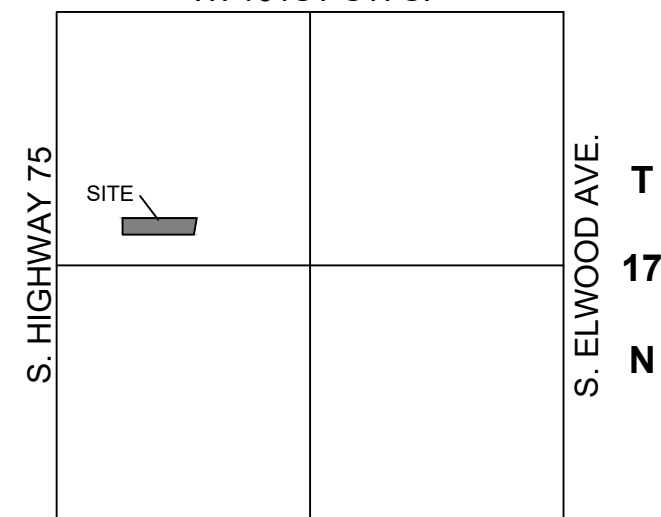
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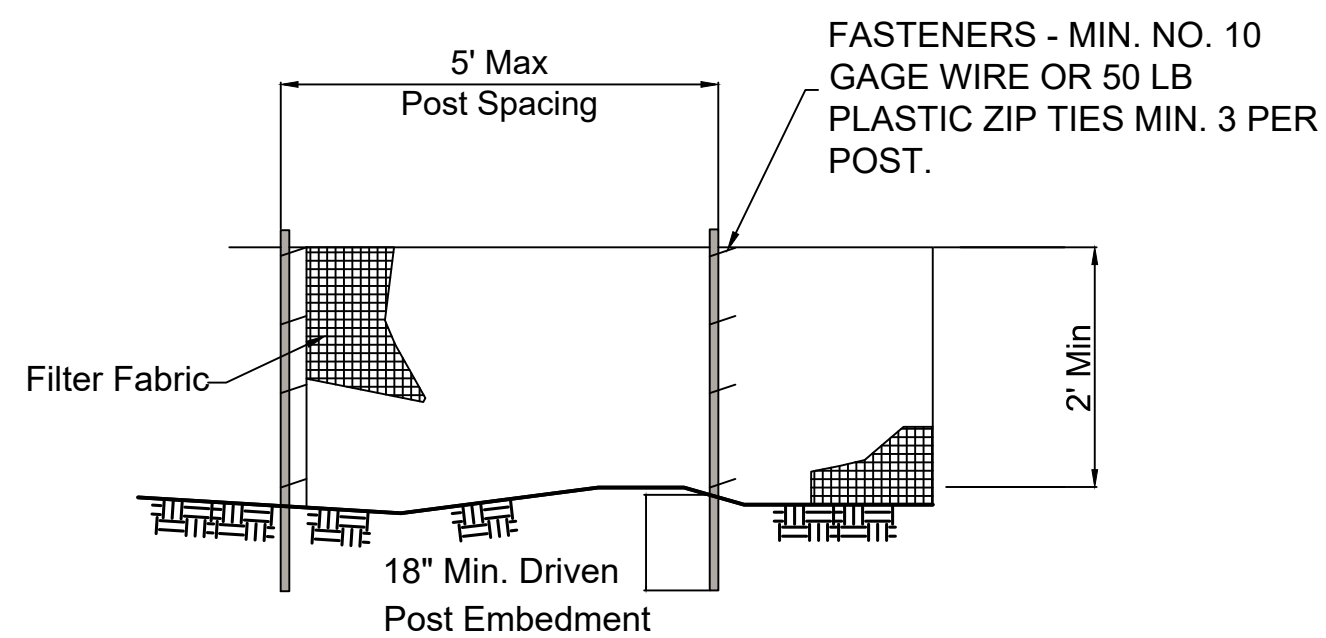
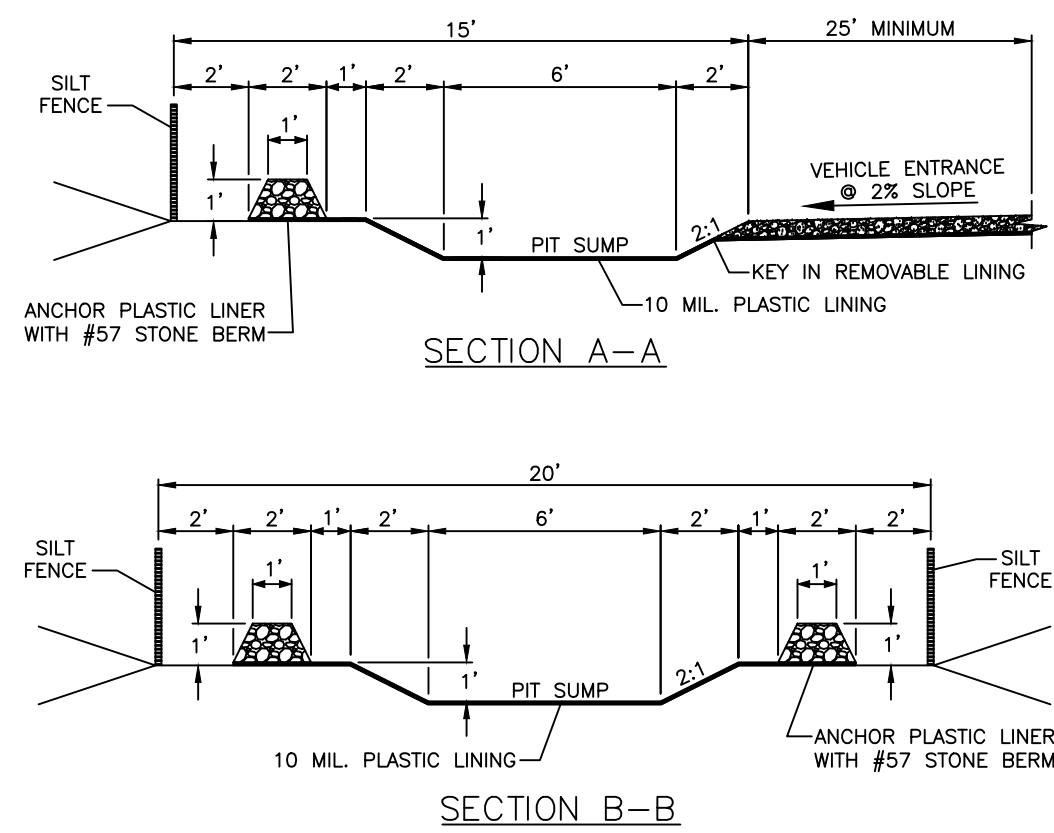
Scale 1" = 30'

R 12 E
W. 161ST ST. S.



W. 171ST ST. S.
SECTION 25
LOCATION MAP

SCALE: 1"=2000'



The diagram illustrates a trench installation. A vertical trench is shown with a filter fabric lining its bottom. The filter fabric is labeled "Filter Fabric". The area below the filter fabric is filled with "Compacted Backfill", indicated by a stippled pattern. A horizontal line represents the "Undisturbed Ground Line". An arrow labeled "Direction Of Flow" points to the left, indicating the flow direction. The trench is shown intersecting the ground line, with the backfill extending below the undisturbed ground level.

Diagram illustrating the correct installation of a fence post. The post is shown being rotated into its final position. Labels include: "First Fence" (solid line), "Second Fence" (dashed line), "Second Post" (left), "First Post" (right), and a curved arrow with text: "Rotate Posts Together Before Installation See Note 4".

3 SILT FENCE INSTALLATION

4. WHEN SPLICES ARE NECESSARY MAKE SPLICE AT POST ACCORDING TO SPLICE DETAIL. PLACE THE END POST OF THE SECOND FENCE INSIDE THE END POST OF THE FIRST FENCE. ROTATE BOTH POSTS TOGETHER AT LEAST 180 DEGREES TO CREATE A TIGHT SEAL WITH THE FABRIC MATERIAL. CUT THE FABRIC NEAR THE BOTTOM OF THE POSTS TO ACCOMMODATE THE 6 INCH FLAP. THEN DRIVE BOTH POSTS AND BURY THE FLAP. COMPACT BACKFILL WELL.

