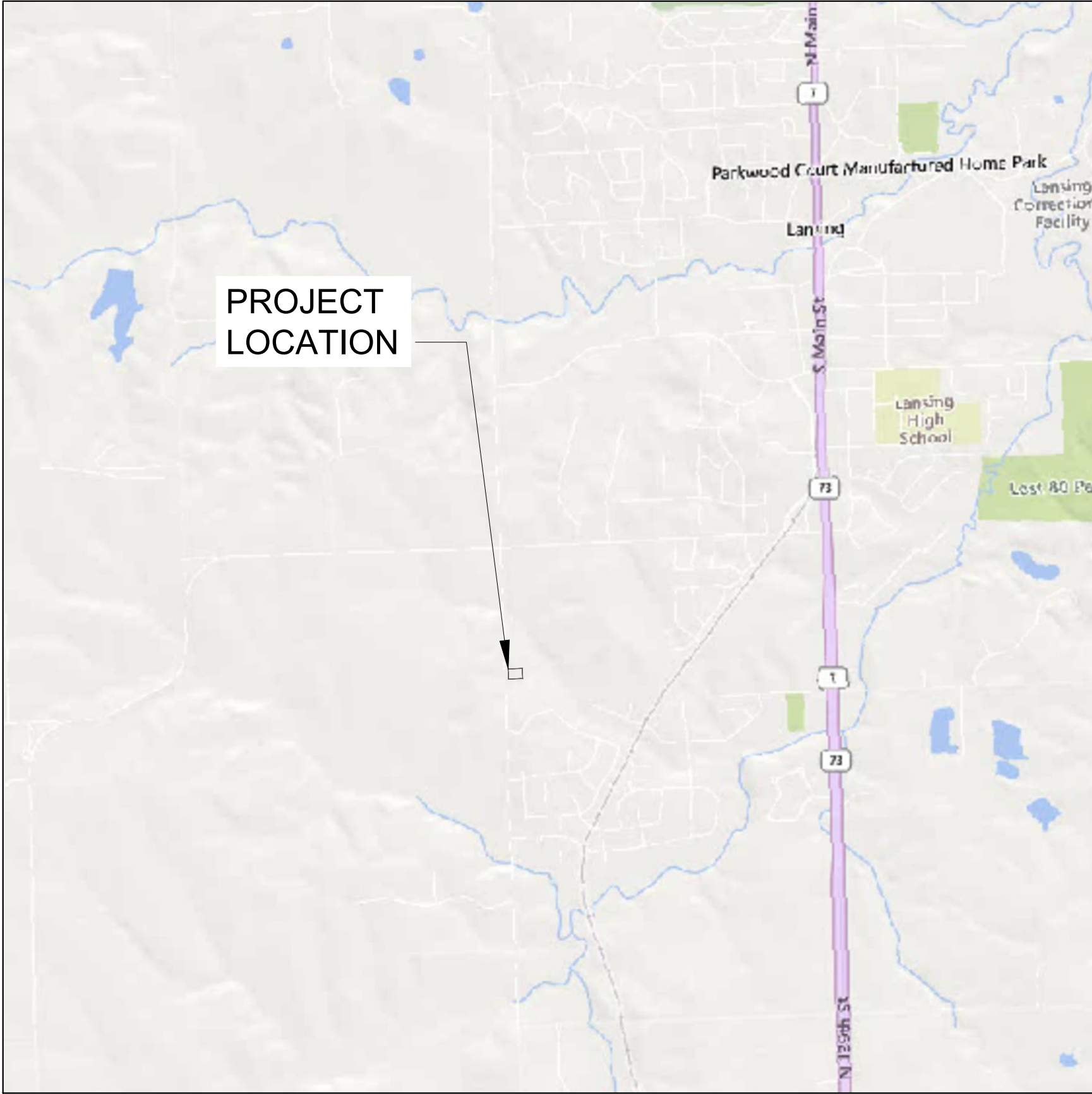


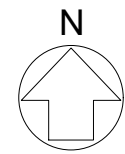
ANSI D 22" x 34" Approved: _____ Checked: _____ Designer: _____ Project Management Initials: _____

1204-CAD03-SHEETS\ART\EMIS-H-SHT-G-COVER.DWG

Last saved by: BOBENGT(2025-07-14) Last Plotted: 2025-07-21
Filename: C:\USERS\BOBENGT\ONE\DRIVE - AECOM\GENERAL - INDIGO - CITY METRO\S\900_CAD\MC\MC11\MC11_1204-CAD03-SHEETS\ART\EMIS-H-SHT-G-COVER.DWG



VICINITY MAP
SCALE: 1" = 2000'



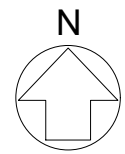
REFERENCE:
AERIAL PHOTOGRAPHIC OBTAINED FROM MICROSOFT BING
TOPOGRAPHIC MAP CITY OF LANSING
QUADRANGLE DATED 2024

MMI - ILA SHELTER KS - MCI 1.12 LANSING, KS

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5	GRADING PLAN
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AERIAL MAP
SCALE: 1" = 600'



REFERENCE:
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QUADRANGLE DATED 2024



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Call before you dig.**

ISSUE FOR BID
DATE OF ISSUE: 07/21/2025

Reviewed By WW Dept
No Comments
08/22/2025 8:57:09 AM
By azell

Reviewed by Community &
Economic Development
08/29/2025 2:13:16 PM by jgentzler
See Review Comments

AECOM

PROJECT

MMI - ILA SHELTER
MCI1.12
LANSING, KS

PARCEL ID: 052-107-25-0-00-00-175
811 4-H RD
LANSING, KS 66043

CLIENT

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CONSULTANT

AECOM Technical Services , Inc.
10 Patewood Drive, Suite 500
Greenville, SC 29615
License Number: E-511
1-864-234-3069 tel
www.aecom.com



REGISTRATION

ISSUE/REVISION

I/R	DATE	DESCRIPTION

PROJECT NUMBER

60645418

SHEET TITLE

COVER SHEET

SHEET NUMBER

1

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PROJECT NARRATIVE

THE PROJECT IS LOCATED IN THE CITY OF LANSING, KANSAS. THE PROJECT INCLUDES THE CONSTRUCTION OF ONE FIBER ILA HUTS WITH ASSOCIATED FENCING, GRADING, AND GRAVEL SURFACE.

CONSTRUCTION SEQUENCE

- STEP 1: ENSURE ALL NECESSARY PERMITS ARE ACQUIRED AND CONDUCT A PRE-CONSTRUCTION MEETING WITH THE A/E CONSTRUCTION MANAGER PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES.
- STEP 2: HOLD PRE-CONSTRUCTION MEETING WITH NECESSARY PARTIES.
- STEP 3: INSTALL INITIAL SEDIMENT & EROSION CONTROL BMP's PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES.
- STEP 4: COMPLETE DEMOLITION, UTILITY INSTALLATION AND ROUGH GRADING AS SHOWN IN CONSTRUCTION PLANS. COMPLETE INSTALLATION OF ABOVE GROUND INFRASTRUCTURE AND FINE GRADING AS SHOWN IN CONSTRUCTION PLANS. ENSURE FINAL STABILIZATION OF ALL DISTURBED SURFACES IS ACHIEVED PRIOR TO DEMOBILIZATION.
- STEP 5: SUBMIT NOTICE(S) OF TERMINATION AS REQUIRED TO ALL APPLICABLE PERMITTING AGENCY(IES).

GENERAL NOTES

- ENSURE THAT ALL REQUIRED PERMITS AND OTHER SUBMITTALS ARE IN HAND PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
- UTILITIES ARE ILLUSTRATED FOR INFORMATION PURPOSES ONLY. THE CLIENT WILL NOT BE HELD RESPONSIBLE FOR THE ACCURACY OF UTILITY LOCATIONS, SIZES, DEPTHS, OR FOR COMPLETENESS OF UTILITY INFORMATION. FOR ANY UTILITIES LOCATED DIFFERENTLY THAN SHOWN ON THE PLAN THE CONTRACTOR SHALL IMMEDIATELY CONTACT THE ENGINEER.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY AND MEET WITH ALL UTILITIES AFFECTED TO DETERMINE UTILITY LOCATIONS. THE CONTRACTOR SHALL PROTECT ALL UTILITIES FROM DAMAGE CAUSED BY THEIR OPERATIONS OR THOSE OF THEIR AGENTS. THE CONTRACTOR SHALL HOLD THE CLIENT HARMLESS FOR ANY THIRD-PARTY INCONVENIENCE CREATED BY WORK OF THEIR OWN FORCES OR THAT OF THEIR AGENTS. ANY DAMAGES INCURRED SHALL BE THE CONTRACTORS FINANCIAL RESPONSIBILITY.

3.1.

ALL EXISTING UTILITIES SHOWN ARE APPROXIMATE AND MUST BE FIELD VERIFIED PRIOR TO CONSTRUCTION. OTHER UTILITIES MAY NOT BE SHOWN ON THESE PLANS. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE LOCATIONS SHOWN AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERY THE LOCATIONS OF ALL UTILITIES WITHIN THE LIMITS OF WORK.
- CONTACT KANSAS UTILITY LOCATE 811 PRIOR TO BEGINNING CONSTRUCTION.
- WARNING: OVERHEAD UTILITIES. UNLESS OTHERWISE NOTED FOR RELOCATION, THE CONTRACTOR IS TO WORK UNDER ALL EXISTING OVERHEAD UTILITIES.
- NO SUBSURFACE PLANS ARE AVAILABLE ON THIS PROJECT. THE CONTRACTOR MAY MAKE THEIR OWN INVESTIGATION TO DETERMINE SUBSURFACE CONDITIONS.
- IT IS THE OBLIGATION OF THE CONTRACTOR TO MAKE THEIR OWN INTERPRETATION OF ALL SURFACE AND SUBSURFACE DATA THAT IS AVAILABLE AS TO THE NATURE AND EXTENT OF THE MATERIALS TO BE EXCAVATED AND WASTED, GRADED AND COMPACTED. THE INFORMATION SHOWN ON THESE PLANS AND SPECIFICATIONS DOES NOT IN ANY WAY GUARANTEE THE AMOUNT OR NATURE OF THE MATERIAL WHICH MAY BE ENCOUNTERED.
- ALL INITIAL EROSION, SEDIMENTATION, & POLLUTION CONTROLS AND TREE PROTECTION MEASURES SHALL BE INSTALLED PRIOR TO BEGINNING ANY LAND DISTURBING ACTIVITIES.
- CONTRACTOR IS RESPONSIBLE FOR PROVIDING THEIR EMPLOYEES A WORKPLACE FREE FROM RECOGNIZED HEALTH AND SAFETY HAZARDS.
- CONTRACTOR SHALL CLEARLY MARK AND MAINTAIN PROPERTY CORNER MONUMENTATION AND BENCHMARKS AND WILL BE RESPONSIBLE FOR THE COST OF REPLACING THEM IF DISTURBED OR DESTROYED.
- THE CONTRACTOR SHALL SAWCUT EXISTING ASPHALT AND/OR CONCRETE SURFACES PRIOR TO REMOVAL UNLESS OTHERWISE DIRECTED BY THE ENGINEER. SAW CUT WIDTH SHALL BE 1 FOOT MINIMUM FROM THE EXISTING EDGE OF PAVEMENT. SAW CUT PAVEMENT SHALL BE REPLACED AS WELL AS ADDITIONAL PAVEMENT REQUIRED TO TIE-IN TO FACE OF PROPOSED CURB AND GUTTER.
- NO DEMOLITION MATERIALS SHALL BE DISPOSED OF ON-SITE. ALL VEGETATION (UNLESS OTHERWISE NOTED), EXISTING ASPHALT PAVEMENT, ORGANICS AND UNSUITABLE BEARING SOILS SHALL BE STRIPPED FROM THE SURFACE WITHIN THE CONSTRUCTION LIMITS AND DISPOSED OF LEGALLY OFFSITE AT A LOCATION APPROVED BY THE LOCAL JURISDICTION FOR THE HANDLING AND DEMOLITION OF DEBRIS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING THE BORROW MATERIAL NECESSARY AS SPECIFIED SPECIFICATIONS FOR THE CONSTRUCTION OF THIS PROJECT. ALL STRUCTURAL FILL PLACED AS A PART OF THIS PROJECT SHALL BE PLACED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
- LIMITS OF PROPOSED SLOPES ARE INDICATED IN THE PLANS, DETAILS AND STANDARD DRAWINGS. THE MAXIMUM SLOPE SHALL NOT EXCEED A 3:1 (HORIZONTAL TO VERTICAL) UNLESS DESIGNATED BY THE ENGINEER. A CUT SLOPE OF 2:1 MAXIMUM WILL BE USED ONLY AS DIRECTED BY THE ENGINEER.
- BACKFILL MATERIAL SHALL BE COMPACTED TO NOT LESS THAN 95% OF THE OPTIMUM COMPACTION FOR ANY SOIL CLASSIFICATION AS DETERMINED BY THE STANDARD PROCTOR TEST AASHTO D-1557. BACKFILL MATERIAL SHALL BE CLEAN AND FREE OF ROOTS, ROCK OR DELETERIOUS MATTER. CONTRACTOR SHALL CORRECT ANY DAMAGE TO CURBING OR PAVING CAUSED BY TRENCH SETTLEMENT WHICH OCCURS WITHIN 12 MONTHS OF PROJECT ACCEPTANCE.
- THE CONTRACTOR SHALL LEAVE THE SITE IN A CLEAN AND NEAT CONDITION AS WELL AS PERFORM REGULAR MAINTENANCE.
- CONTRACTOR SHALL PROTECT ALL ADJACENT LANDS FROM DAMAGE DURING DEMOLITION WORK, ANY OFF-SITE AREAS DISTURBED SHALL BE RETURNED TO A CONDITION EQUAL TO OR BETTER THAN THE CONDITION PRIOR TO CONSTRUCTION.
- ALL STRUCTURES NOT LABELED FOR DEMOLITION SHALL BE PROTECTED FROM DAMAGE DURING ALL PHASES OF CONSTRUCTION. ANY STRUCTURES THAT ARE TO REMAIN THAT ARE DAMAGED SHALL BE REPAIRED BY THE CONTRACTOR TO A CONDITION EQUAL TO OR BETTER THAN THE EXISTING CONDITION AT NO ADDITIONAL COST.
- A RIGHT-OF-WAY PERMIT SHALL BE OBTAINED PRIOR TO PERFORMING CONSTRUCTION ACTIVITY IN THE CITY OF LANSING RIGHT-OF-WAY
- CHLORINATED DISINFECTED WATER SHALL NOT BE DISCHARGED INTO THE STORMWATER SYSTEM

EROSION CONTROL NOTES

- PRIOR TO THE LAND DISTURBING CONSTRUCTION, THE CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH THE AREA SITE DEVELOPMENT INSPECTOR.
- THE CONTRACTOR SHALL OBSERVE THE PROJECT SEQUENCE SHOWN ON THE PLANS. THE CONTRACTOR SHALL MAINTAIN CAREFUL SCHEDULING AND PERFORMANCE TO INSURE THAT LAND STRIPPED OF IT'S NATURAL COVER IS EXPOSED ONLY IN SMALL QUANTITIES.
- NO STAGING AREAS, MATERIAL STORAGE, CONCRETE WASH OUT AREAS, OR DEBRIS BURN AND BURIAL HOLES SHALL BE LOCATED WITHIN 500 FEET OF DESIGNATED TREE PROTECTION AREAS.
- A COPY OF THE APPROVED LAND DISTURBANCE PLAN AND PERMIT SHALL BE PRESENT ON THE SITE AT ALL TIMES.
- THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH, LAND DISTURBING ACTIVITIES.
- PRIOR TO COMMENCING LAND DISTURBANCE ACTIVITY, THE LIMITS OF LAND DISTURBANCE AND ALL STREAM BUFFERS SHALL BE CLEARLY AND ACCURATELY DEMARCATED WITH STAKES, RIBBONS, OR OTHER APPROPRIATE MEANS. THE LOCATION AND EXTENT OF ALL AUTHORIZED LAND DISTURBANCE ACTIVITY SHALL BE DEMARCATED FOR THE DURATION OF THE CONSTRUCTION ACTIVITY. NO LAND DISTURBANCE SHALL OCCUR OUTSIDE THE APPROVED LIMITS INDICATED ON THE APPROVED PLANS.
- PRIOR TO ANY OTHER CONSTRUCTION, A STABILIZED CONSTRUCTION ENTRANCE SHALL BE CONSTRUCTED AT EACH POINT OF ENTRY TO OR EXIT FROM THE SITE OR ONTO ANY PUBLIC ROADWAY.
- THE FOLLOWING INITIAL EROSION CONTROL MEASURES SHALL BE IMPLEMENTED PRIOR TO ANY OTHER CONSTRUCTION ACTIVITY:

a.

THE CONSTRUCTION EXIT, CONSISTING OF A MINIMUM PAD SIZE OF 20 FEET BY 50 FEET WITH A MINIMUM OF 6" THICK STONE, SHALL BE PLACED AS SHOWN ON THE PLAN. THE STONE SIZE SHOULD CONSIST OF COURSE AGGREGATE BETWEEN 1-1/2" & 3-1/2" IN DIAMETER AND OVERLAID ON A GEOTEXTILE UNDERLINER. THE GEOTEXTILE UNDERLINER SHALL MEET THE REQUIREMENTS OF AASHTO M288-96, SECTION 7.3 SEPARATION REQUIREMENTS.

b.

IMMEDIATELY AFTER ESTABLISHMENT OF CONSTRUCTION ENTRANCE/EXITS, ALL PERIMETER EROSION CONTROL AND STORM WATER MANAGEMENT DEVICES SHALL BE INSTALLED AS SHOWN ON THE CLEARING PHASE EROSION CONTROL PLAN.

c.

SILT FENCE SHOULD BE INSTALLED AT THE PERIMETER OF THE DISTURBED AREA AS SHOWN ON THE PLAN. THE SILT FENCE SHOULD BE PLACED IN ACCORDANCE WITH LATEST KANSAS DEPARTMENT OF TRANSPORTATION (KDOT) STANDARDS AND MEETING THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION. THE SILT FENCE SHOULD BE KEPT ERECT AT ALL TIMES AND REPAIRED WHEN REQUESTED BY THE SITE INSPECTOR OR THE PROJECT DESIGN PROFESSIONAL OF RECORD. SILT SHOULD BE REMOVED WHEN ACCUMULATION REACHES 1/2 HEIGHT OF BARRIER. THE PERIMETER SILT FENCE SHOULD BE INSPECTED DAILY FOR ANY FAILURES. ANY FAILURES OF SAID FENCING SHOULD BE REPAIRED IMMEDIATELY.

d.

INLET SEDIMENT PROTECTION MEASURES SHALL BE INSTALLED ON ALL EXISTING STORM STRUCTURES AS SHOWN ON THE PLAN. SEE SEPARATE DETAILS FOR SPECIFICS ON TYPE OF INLET PROTECTION SPECIFIED.

e.

STONE CHECK DAMS SHALL BE INSTALLED IN AREAS OF CONCENTRATED FLOWS AS SHOWN ON THE PLAN.

f.

TREE PROTECTION FENCING/SILT FENCING SHOULD BE INSTALLED PRIOR TO THE START OF ANY LAND DISTURBANCE ACTIVITY AND MAINTAINED UNTIL FINAL LANDSCAPE IS INSTALLED. THE TREE PROTECTION FENCING/SILT FENCING SHOULD BE INSPECTED DAILY. ANY FAILURES OF SAID FENCING SHOULD BE REPAIRED IMMEDIATELY.

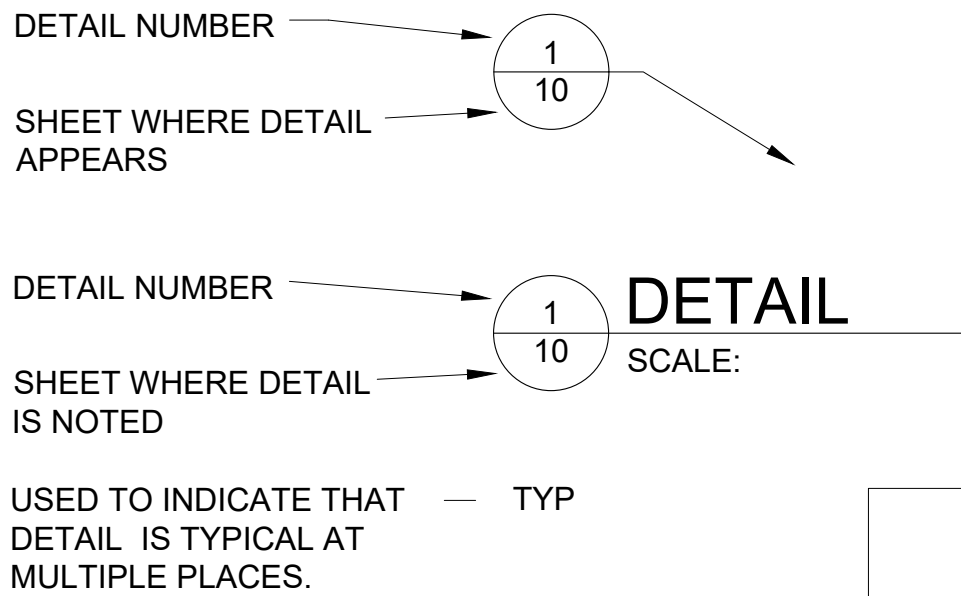
EROSION CONTROL NOTES

- THE CONSTRUCTION EXIT SHALL BE MAINTAINED IN A METHOD WHICH WILL PREVENT TRACK OR FLOW OF MUD ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 1-3" OF STONE, AS CONDITIONS DEMAND. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO PUBLIC ROADWAY OR INTO STORM DRAIN MUST BE REMOVED IMMEDIATELY.
- CONTRACTOR SHALL INSPECT CONTROL MEASURES AT THE END OF EACH WORKING DAY TO ENSURE MEASURES ARE FUNCTIONING PROPERLY.
- EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE AS DIRECTED BY THE ON SITE INSPECTOR OR THE CIVIL ENGINEER.
- FAILURE TO INSTALL, OPERATE, OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE JOB UNTIL SUCH MEASURES ARE CORRECTED BACK TO THE APPROVED EROSION CONTROL PLANS.
- THE SITE CONTRACTOR WILL BE RESPONSIBLE FOR MAINTENANCE OF ALL EROSION CONTROL MEASURES.

FINAL PHASE-EROSION CONTROL NOTES

- THE FOLLOWING EROSION CONTROL MEASURES SHALL BE IMPLEMENTED DURING THE FINAL EROSION CONTROL PHASE OF CONSTRUCTION.
- SEDIMENT SHALL NOT BE WASHED INTO INLETS. IT SHALL BE REMOVED FROM THE SEDIMENT TRAPS AND DISPOSED OF AND STABILIZED SO THAT IT WILL NOT ENTER THE INLETS AGAIN.
- MULCH OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 7 DAYS OF LAND DISTURBANCE.
- ALL DISTURBED AREAS LEFT MULCHED AFTER 30 DAYS SHALL BE STABILIZED WITH TEMPORARY GRASSING.
- THE CONTRACTOR SHALL MAINTAIN ALL SEDIMENT PONDS AND EROSION CONTROL MEASURES UNTIL PERMANENT GROUND COVER IS ESTABLISHED. SEDIMENT SHALL BE CLEANED OUT OF THE PONDS WHEN IT REACHES THE HALF WAY POINT ON THE RISER.
- AFTER CURBING, GRADED AGGREGATE BASE, AND PAVEMENT HAS BEEN INSTALLED, ALL INLET SEDIMENT TRAPS ON SINGLE AND DOUBLE WING CATCH BASINS ALONG WITH ANY CURB INLETS SHALL BE REMOVED AND REPLACED WITH CURB FILTER INLET PROTECTION. SEE SEPARATE DETAIL FOR ADDITIONAL INFORMATION.
- ALL ROADWAY AND PARKING SHOULDERS SHOULD BE APPLIED WITH VEGETATIVE COVER AS SOON AS FINAL GRADE IS ACHIEVED BEHIND CURBS.
- SEDIMENT AND EROSION CONTROL MEASURES SHOULD BE CHECKED AFTER EACH RAIN EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED ONE HALF THE CAPACITY OF THE ADDITIONAL DEVICES MUST BE INSTALLED IF NEW CHANNELS HAVE DEVELOPED.
- THE CONSTRUCTION EXIT SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACK OR FLOW OF MUD ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 1-3" OF STONE, AS CONDITIONS ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO PUBLIC ROADWAY OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.
- THE CONTRACTOR SHALL INSPECT CONTROL MEASURES AT THE END OF EACH WORKING DAY TO ENSURE MEASURES ARE FUNCTIONING PROPERLY.
- EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE AS DIRECTED BY THE ON SITE INSPECTOR OR THE CIVIL ENGINEER.
- FAILURE TO INSTALL, OPERATE, OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE JOB SITE UNTIL SUCH MEASURES ARE CORRECTED BACK TO THE APPROVED EROSION CONTROL PLANS.
- THE SITE CONTRACTOR WILL BE RESPONSIBLE FOR MAINTENANCE OF ALL EROSION CONTROL MEASURES INCLUDING REPLACING OR REPAIRING ANY DAMAGED DEVICES DUE TO ANY CONSTRUCTION ACTIVITY BY OTHERS.
- UPON COMPLETION OF THE PROJECT AND RECEIPT OF "CERTIFICATE OF OCCUPANCY", THE CONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION CONTROL MEASURES AND DISPOSE OF THEM UNLESS NOTED ON PLANS.

DETAIL REFERENCES



AECOM

PROJECT

MMI - ILA SHELTER

MCI1.12

LANSING, KS

PARCEL ID: 052-107-25-0-00-00-175
811 4-H RD
LANSING, KS 66043

CLIENT

Middle Mile Infrastructure

CONSULTANT

AECOM Technical Services, Inc.
10 Patewood Drive, Suite 500
Greenville, SC 29615
License Number: E-511
1-864-234-3069 tel
www.aecom.com



REGISTRATION

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1	08/19/2025	Site Plan Comments
I/R	DATE	DESCRIPTION

PROJECT NUMBER

60645418

SHEET TITLE

GENERAL NOTES

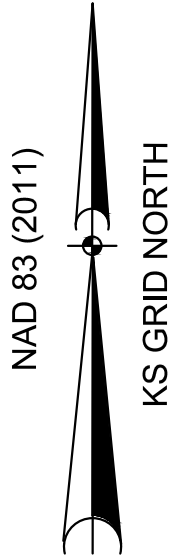
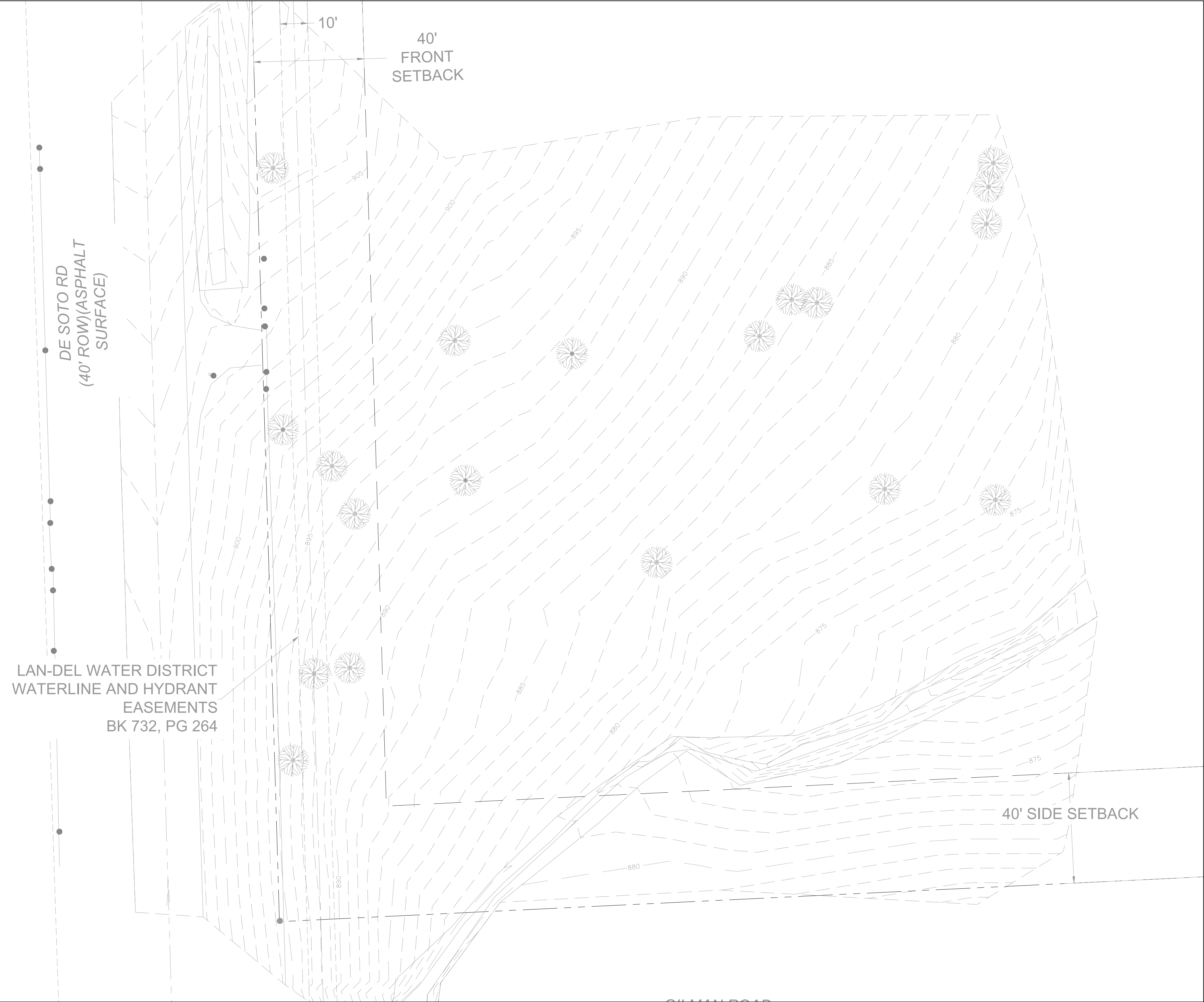
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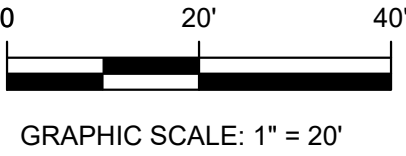
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LAN-DEL WATER DISTRICT
WATERLINE AND HYDRANT
EASEMENTS
BK 732, PG 264

- NOTES
- SEE GENERAL NOTES, SHEET 2.



LEGEND	
	WORK LIMIT LINE
	PROPERTY LINE
	RIGHT OF WAY LINE
	EXISTING MAJOR CONTOUR
	EXISTING MINOR CONTOUR
	PROPOSED EASEMENT LINE
	EXISTING WETLANDS



ISSUE FOR BID
DATE OF ISSUE: 07/21/2025



PROJECT

MMI - ILA SHELTER
MCI1.12
LANSING, KS
PARCEL ID: 052-107-25-0-00-00-175
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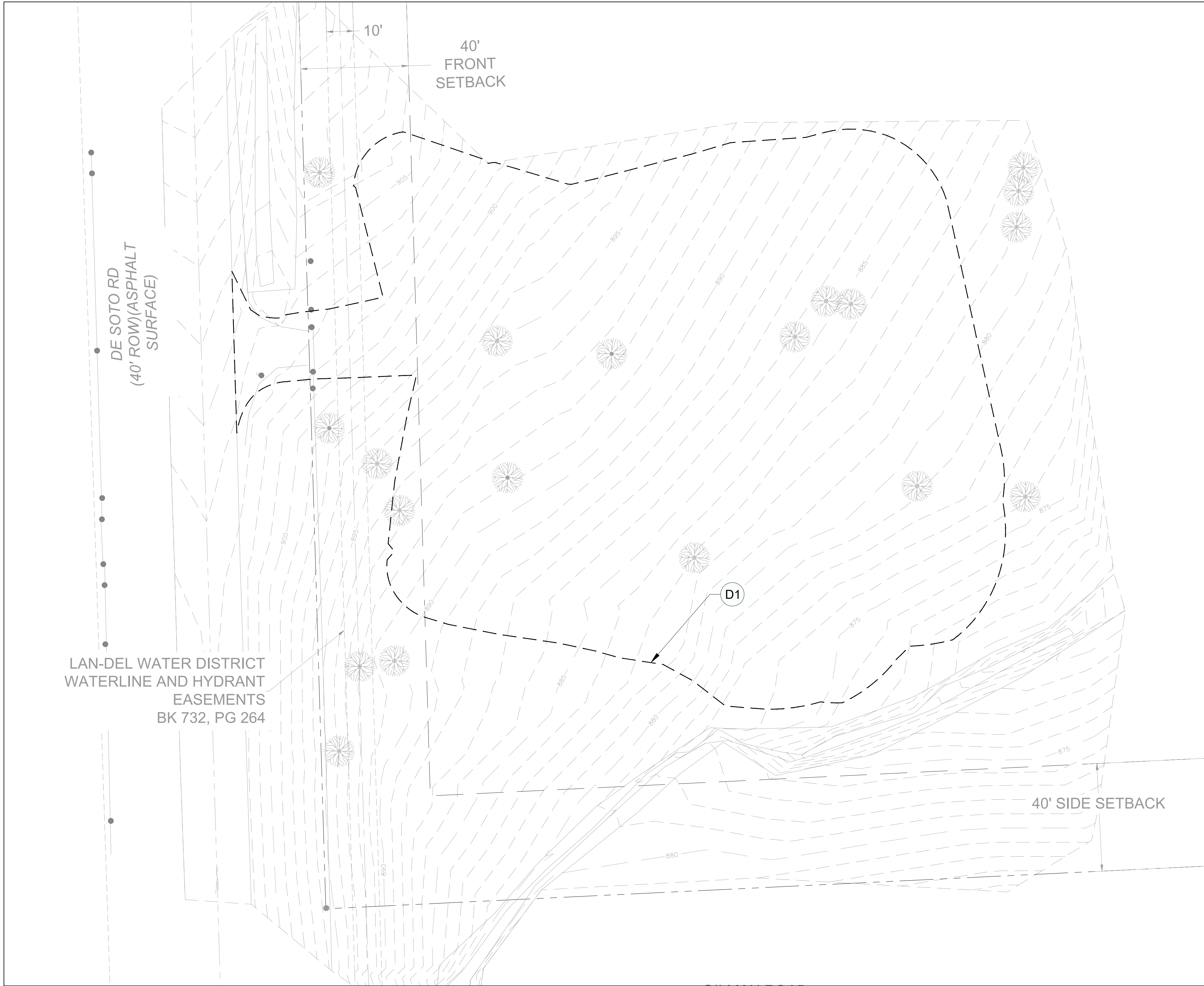
60645418

SHEET TITLE

EXISTING CONDITIONS

SHEET NUMBER

3



CONSTRUCTION NOTES

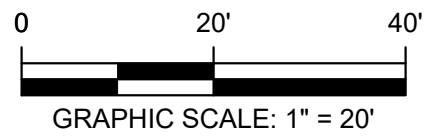
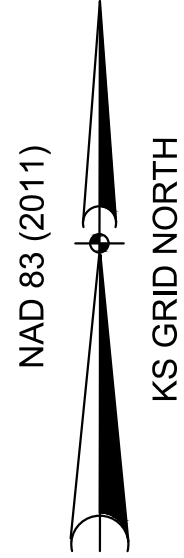
- D1 REMOVE EXISTTING VEGETATION AND ASPHALT AS NEEDED FOR CONSTRUCTING PAD, GRADING & ABOVE-GROUND INFRASTRUCTURE.

NOTES

1. DEMOLITION AND REMOVAL WORK MUST NOT DAMAGE EXISTING ITEMS TO REMAIN. CONTRACTOR MUST PROMPTLY REPORT TO THE A/E CONSTRUCTION MANAGER ALL DAMAGE RESULTING FROM HIS OPERATIONS ALONG WITH HIS REPAIR RECOMMENDATION FOR A/E APPROVAL. CONTRACTOR MUST REPAIR ALL DAMAGES RESULTING FROM HIS OPERATIONS TO THE SATISFACTION OF THE A/E CONSTRUCTION MANAGER.
2. ITEMS IDENTIFIED AS TO BE DEMOLISHED OR REMOVED AND DEBRIS MUST BECOME THE PROPERTY OF THE CONTRACTOR AND BE DISPOSED OF OFF SITE. EXERCISE CARE WHEN REMOVING ITEMS TO AVOID DAMAGING ADJACENT ITEMS REMAINING.
3. SEE GENERAL NOTES, SHEET 2.

LEGEND

— — — — —	WORK LIMIT LINE
— — — — —	PROPERTY LINE
	RIGHT OF WAY LINE
76.5	EXISTING MAJOR CONTOUR
76.1	EXISTING MINOR CONTOUR
- - - - -	PROPOSED EASEMENT LINE
— — — — —	EXISTING WETLANDS



ISSUE FOR BID

DATE OF ISSUE: 07/21/2025



PROJECT

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REGISTRATION

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SHEET TITLE

DEMOLITION

SHEET NUMBER

4

LAN-DEL WATER DISTRICT
WATERLINE AND HYDRANT
EASEMENTS
BK 732, PG 264

GRADING NOTES

1.

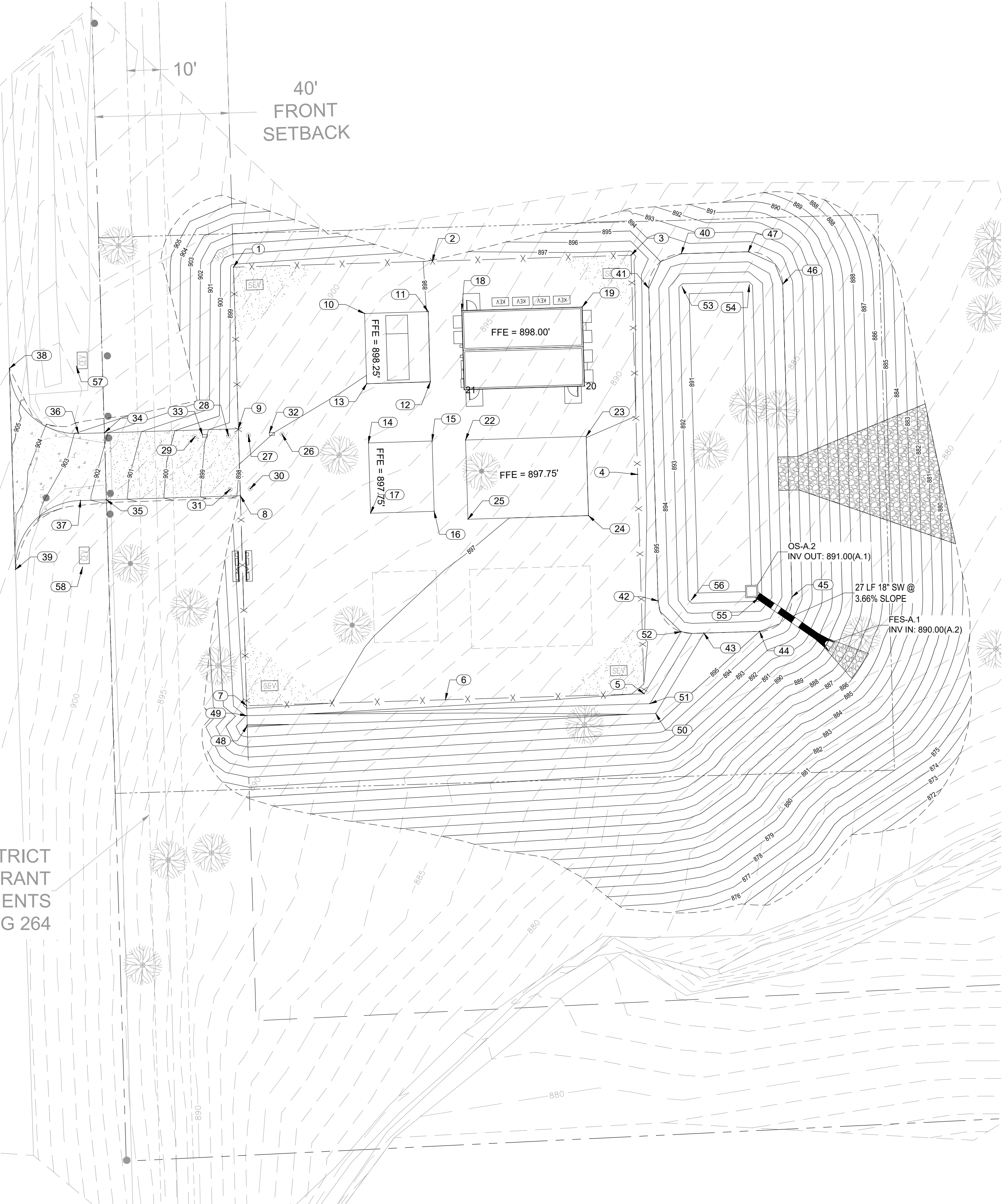
CONSTRUCT SITE TO PROPOSED CONTOURS AND SPOT ELEVATIONS SHOWN USING SUITABLE MATERIAL. GRADES SHOWN ARE TOP OF FINAL GRADE.
2.

CONTRACTOR SHALL BE AWARE OF EXISTING UTILITY LINE(S) DURING DRIVEWAY CULVERT INSTALLATION.
3.

ALL NEW PAVEMENT/GRAVEL ABUTTING EXISTING PAVEMENTS/GRAVEL SHALL MATCH THE ELEVATION OF THE EXISTING.
4.

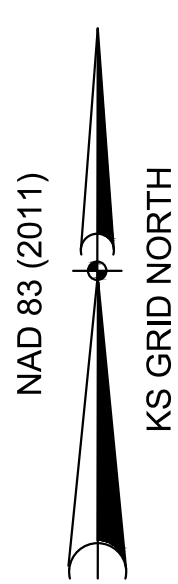
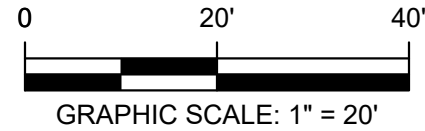
CONTRACTOR TO ENSURE POSITIVE DRAINAGE OF ALL FINISHED GRADE SURFACES.
5.

SEE GENERAL NOTES, SHEET 2.



LEGEND

ECR - END OF CURVE RADIUS
EOC - EDGE OF CONCRETE
EOG - EDGE OF GRAVEL
EG - EXISTING GROUND ELEVATION (TIE TO EXISTING POINT)



LEGEND

---	WORK LIMIT LINE
- - -	PROPERTY LINE
---	RIGHT OF WAY LINE
765	EXISTING MAJOR CONTOUR
761	EXISTING MINOR CONTOUR
760	PROPOSED MAJOR CONTOUR
761	PROPOSED MINOR CONTOUR
---	PROPOSED EASEMENT LINE
- - -	EXISTING WETLANDS
---	FENCE LINE
	GRAVEL
	ASPHALT

Point Table					Point Table				
Point #	Description	Elevation	Northing	Easting	Point #	Description	Elevation	Northing	Easting
1	EOG	898.71	342194.4753	2184957.0448	30	BOLLARD	897.90	342128.3104	2184962.0272
2	EOG	897.97	342196.2514	2185016.3638	31	BOLLARD	898.20	342128.1308	2184956.0299
3	EOG	897.41	342198.0275	2185075.6827	32	PEDESTAL	898.01	342145.0524	2184967.7524
4	EOG	896.78	342132.5569	2185077.6430	33	PEDESTAL	899.14	342144.4539	2184947.7648
5	EOG	895.96	342067.0862	2185079.6033	34	EOG/EOC	902.11	342145.0154	2184918.5078
6	EOG	896.59	342065.3101	2185020.2843	35	EOG/EOC	901.57	342125.0244	2184919.1063
7	EOG	897.31	342063.5340	2184960.9653	36	EOC	902.88	342144.7833	2184910.7565
8	EOG	897.91	342126.2215	2184959.0884	37	EOC	902.28	342124.7928	2184911.3716
9	EOG	898.11	342146.2125	2184958.4899	38	EOC/EG	906.03	342164.2134	2184890.1658
10	EOC	898.20	342180.6400	2184996.1675	39	EOC/EG	903.81	342104.1847	2184891.9797
11	EOC	897.99	342181.2086	2185015.1590	40	POND	895.00	342198.4764	2185090.6760
12	EOC	897.76	342160.2180	2185015.7875	41	POND	895.00	342188.1816	2185080.9798
13	EOC	897.97	342159.6494	2184996.7960	42	POND	895.00	342094.8174	2185083.7752
14	EOC	897.72	342141.9907	2184997.3247	43	POND	895.00	342085.2217	2185097.4281
15	EOC	897.54	342142.5593	2185016.3162	44	POND	895.00	342085.7197	2185114.0611
16	EOC	897.27	342121.5687	2185016.9447	45	POND	895.00	342096.0145	2185123.7573
17	EOC	897.46	342121.0001	2184997.9532	46	POND	895.00	342189.3788	2185120.9619
18	EOC	897.88	342181.5079	2185025.1545	47	POND	895.00	342199.0750	2185110.6671
19	EOC	897.49	342182.5853	2185061.1384	48	TOP DITCH	897.12	342057.5367	2184961.1449
20	EOC	897.19	342158.9296	2185061.8469	49	TOP DITCH	896.13	342060.5353	2184961.0551
21	EOC	897.62	342157.8519	2185025.8630	50	TOP DITCH	895.93	342061.1873	2185083.0682
22	EOC	897.46	342142.8586	2185026.3117	51	BOTTOM DITCH	895.19	342064.1367	2185081.3358
23	EOC	897.00	342143.9360	2185062.2956	52	POND	895.00	342085.6095	2185090.6704
24	EOC	896.71	342120.2799	2185063.0039	53	RADIUS		342188.4809	2185090.9753
25	EOC	897.15	342119.2025	2185027.0200	54	RADIUS		342189.0795	2185110.9663
26	BOLLARD	897.97	342144.6017	2184971.5175	55	RADIUS		342095.7153	2185113.7618
27	BOLLARD	898.06	342144.3024	2184961.5220	56	RADIUS		342095.1167	2185093.7708
28	BOLLARD	898.36	342144.1228	2184955.5247	57	RADIUS		342164.7744	2184910.1579
29	BOLLARD	899.35	342143.8235	2184945.5292	58	RADIUS		342104.8017	2184911.9701

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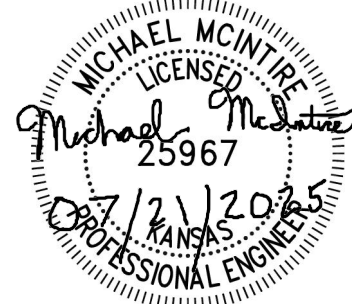
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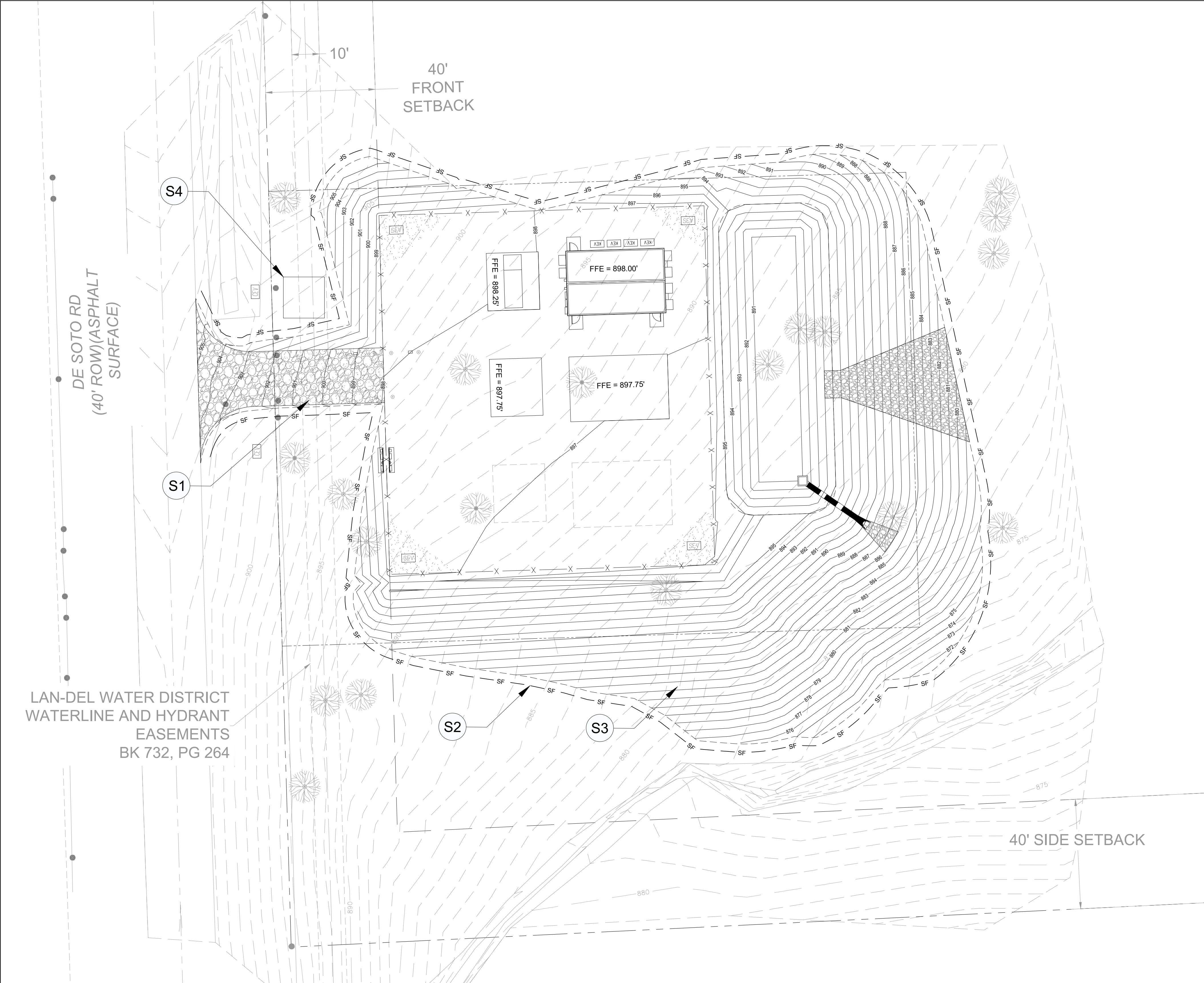
60645418

SHEET TITLE

GRADING PLAN

SHEET NUMBER

5



CONSTRUCTION NOTES:

- S1

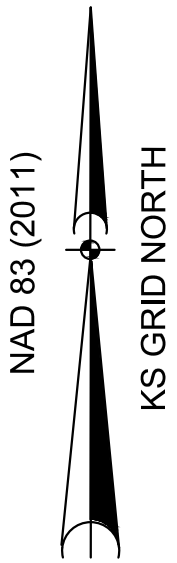
CONSTRUCT TEMPORARY CONSTRUCTION ENTRANCE, SEE DETAIL
- 1
7
- S3

CONSTRUCT SLOPE STABILIZATION ON ALL SLOPES 3H:1V OR STEEPER
- 3
7
- S2

CONSTRUCT TEMPORARY SILT FENCE, SEE DETAIL
- 2
7
- S4

CONSTRUCT CONCRETE WASHOUT, SEE DETAIL
- 4
7

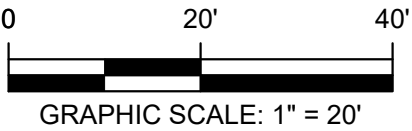
SEE SHEET 7 FOR EROSION AND SEDIMENT CONTROL NOTES AND DETAILS.



LEGEND	
	WORK LIMIT LINE
	PROPERTY LINE
	EXISTING MAJOR CONTOUR
	EXISTING MINOR CONTOUR
	PROPOSED MAJOR CONTOUR
	PROPOSED MINOR CONTOUR
	PROPOSED SPOT ELEVATION
	SILT FENCE
	CONSTRUCTION ENTRANCE
	EXISTING WETLANDS

EROSION CONTROL NOTES

1. THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH LAND DISTURBING ACTIVITIES.
2. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES, IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.
3. ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.
4. SEE GENERAL NOTES, SHEET 2.
5. SEE EROSION CONTROL DETAILS, SHEET 7.



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SHEET TITLE

EROSION CONTROL PLAN

SHEET NUMBER

6

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B

A

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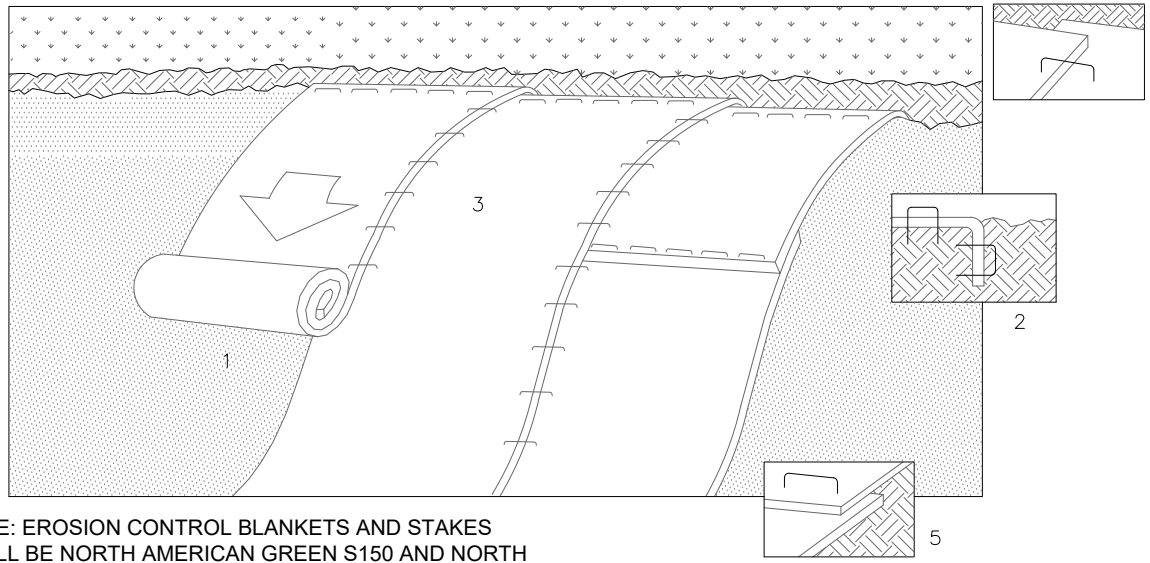
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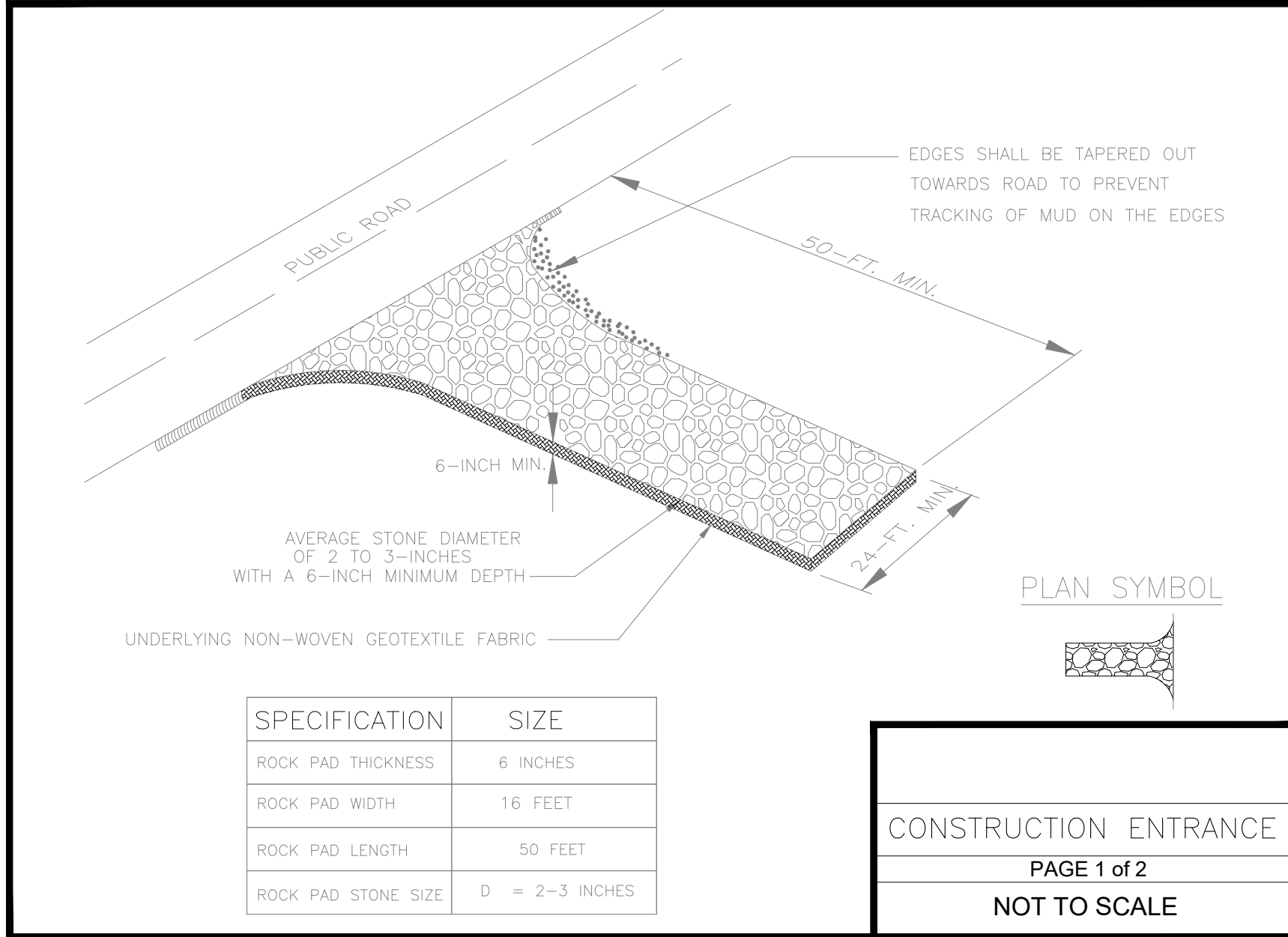


NOTE: EROSION CONTROL BLANKETS AND STAKES SHALL BE NORTH AMERICAN GREEN S150 AND NORTH AMERICAN GREEN 6"-4" BIO-STAKE (OR ENGINEER APPROVED EQUIVALENTS).

1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING APPLICATION OF LIME, FERTILIZER, AND SEED. NOTE: WHEN USING CELL-O-SEED DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.
2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN 6" DEEP X 6" WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
3. ROLL THE BLANKETS DOWN THE SLOPE.
4. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 2" OVERLAP.
5. WHEN BLANKETS MUST BE SPICED DOWN THE SLOPE, PLACE BLANKETS END OVER END (SHINGLE STYLE) WITH APPROXIMATELY 4" OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART.
6. ALL EROSION CONTROL BLANKET SHALL CONFORM TO KDOT SPECIFICATIONS FOR EROSION CONTROL BLANKET.

3 EROSION CONTROL MATTING

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SPECIFICATION	SIZE
ROCK PAD THICKNESS	6 INCHES
ROCK PAD WIDTH	16 FEET
ROCK PAD LENGTH	50 FEET
ROCK PAD STONE SIZE	D = 2-3 INCHES

CONSTRUCTION ENTRANCE

PAGE 1 of 2

NOT TO SCALE

- #### CONSTRUCTION ENTRANCE - GENERAL NOTES
1. Stabilized construction entrances should be used at all points where traffic will egress/ingress a construction site onto a public road or any impervious surfaces, such as parking lots.
 2. Install a non-woven geotextile fabric prior to placing any stone.
 3. Install a culvert pipe across the entrance when needed to provide positive drainage.
 4. The entrance shall consist of 2-inch to 3-inch D50 stone placed at a minimum depth of 6-inches.
 5. Minimum dimensions of the entrance shall be 24-feet wide by 100-feet long, and may be modified as necessary to accommodate site constraints.
 6. The edges of the entrance shall be tapered out towards the road to prevent tracking at the edge of the entrance.
 7. Divert all surface runoff and drainage from the stone pad to a sediment trap or basin or other sediment trapping structure.
 8. Limestone may not be used for the stone pad.

- #### CONSTR. ENTRANCE - INSPECTION & MAINTENANCE
1. The key to functional construction entrances is weekly inspections, routine maintenance, and regular sediment removal.
 2. Regular inspections of construction entrances shall be conducted once every calendar week and, as recommended, within 24-hours after each rainfall event that produces 1/2-inch or more of precipitation.
 3. During regular inspections, check for mud and sediment buildup and pad integrity. Inspection frequencies may need to be more frequent during long periods of wet weather.
 4. Reshape the stone pad as necessary for drainage and runoff control.
 5. Wash or replace stones as needed and as directed by site inspector. The stone in the entrance should be washed or replaced whenever the entrance fails to reduce the amount of mud being carried off-site by vehicles. Frequent washing will extend the useful life of stone pad.
 6. Immediately remove mud and sediment tracked or washed onto adjacent impervious surfaces by brushing or sweeping. Flushing should only be used when the water can be discharged to a sediment trap or basin.
 7. During maintenance activities, any broken pavement should be repaired immediately.
 8. Construction entrances should be removed after the site has reached final stabilization. Permanent vegetation should replace areas from which construction entrances have been removed, unless area will be converted to an impervious surface to serve post-construction.

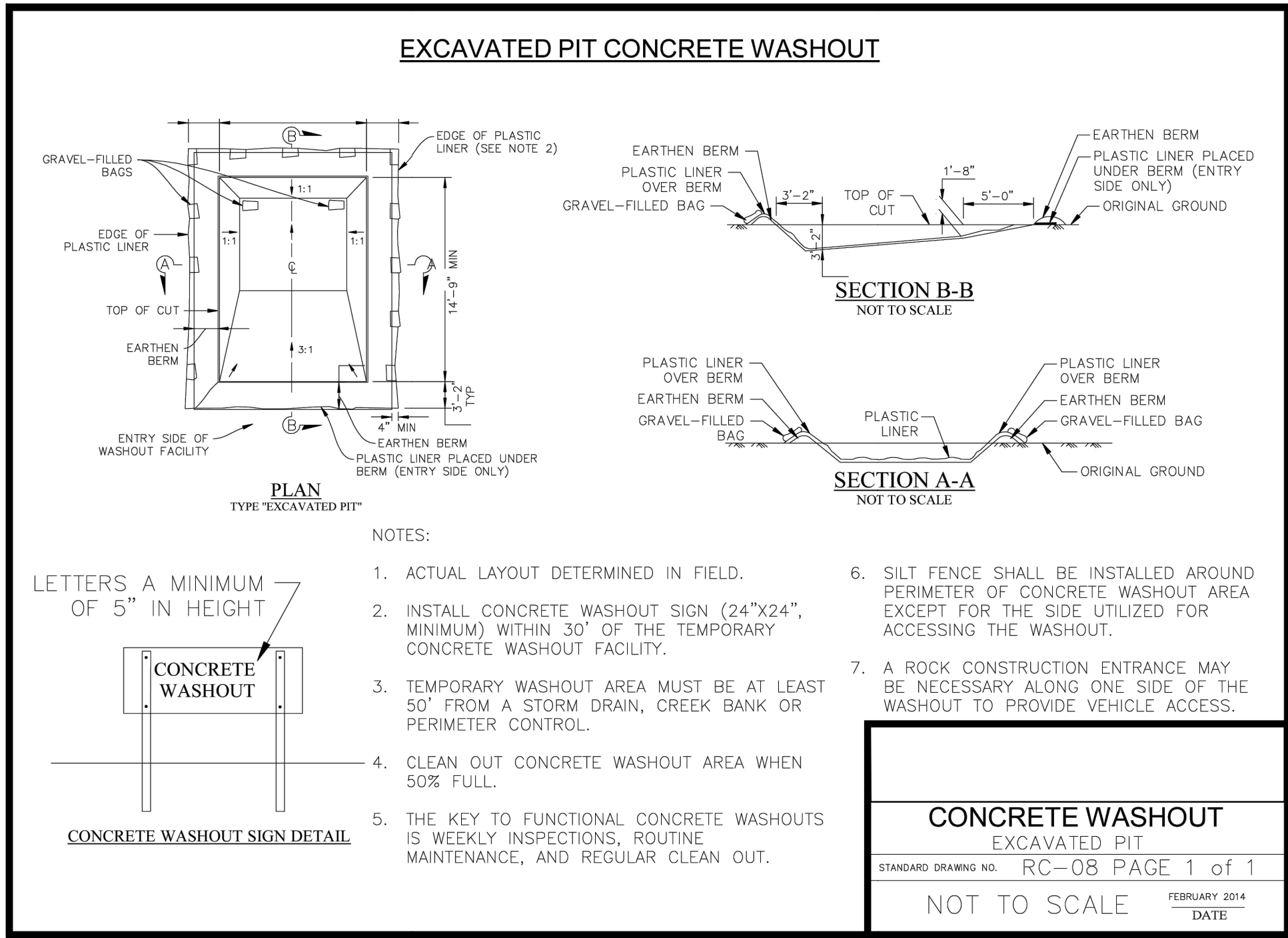
CONSTRUCTION ENTRANCE

PAGE 2 of 2

GENERAL NOTES

1 CONSTRUCTION ENTRANCE

NOT TO SCALE



LETTERS A MINIMUM OF 5" IN HEIGHT

CONCRETE WASHOUT SIGN DETAIL

- #### NOTES:
1. ACTUAL LAYOUT DETERMINED IN FIELD.
 2. INSTALL CONCRETE WASHOUT SIGN (24"x24", MINIMUM) WITHIN 50' OF THE TEMPORARY CONCRETE WASHOUT FACILITY.
 3. TEMPORARY WASHOUT AREA MUST BE AT LEAST 50' FROM A STORM DRAIN, CREEK BANK OR PERIMETER CONTROL.
 4. CLEAN OUT CONCRETE WASHOUT AREA WHEN 50% FULL.
 5. THE KEY TO FUNCTIONAL CONCRETE WASHOUTS IS WEEKLY INSPECTIONS, ROUTINE MAINTENANCE, AND REGULAR CLEAN OUT.
 6. SILT FENCE SHALL BE INSTALLED AROUND PERIMETER OF CONCRETE WASHOUT AREA EXCEPT FOR THE SIDE UTILIZED FOR ACCESSING THE WASHOUT.
 7. A ROCK CONSTRUCTION ENTRANCE MAY BE NECESSARY ALONG ONE SIDE OF THE WASHOUT TO PROVIDE VEHICLE ACCESS.

CONCRETE WASHOUT

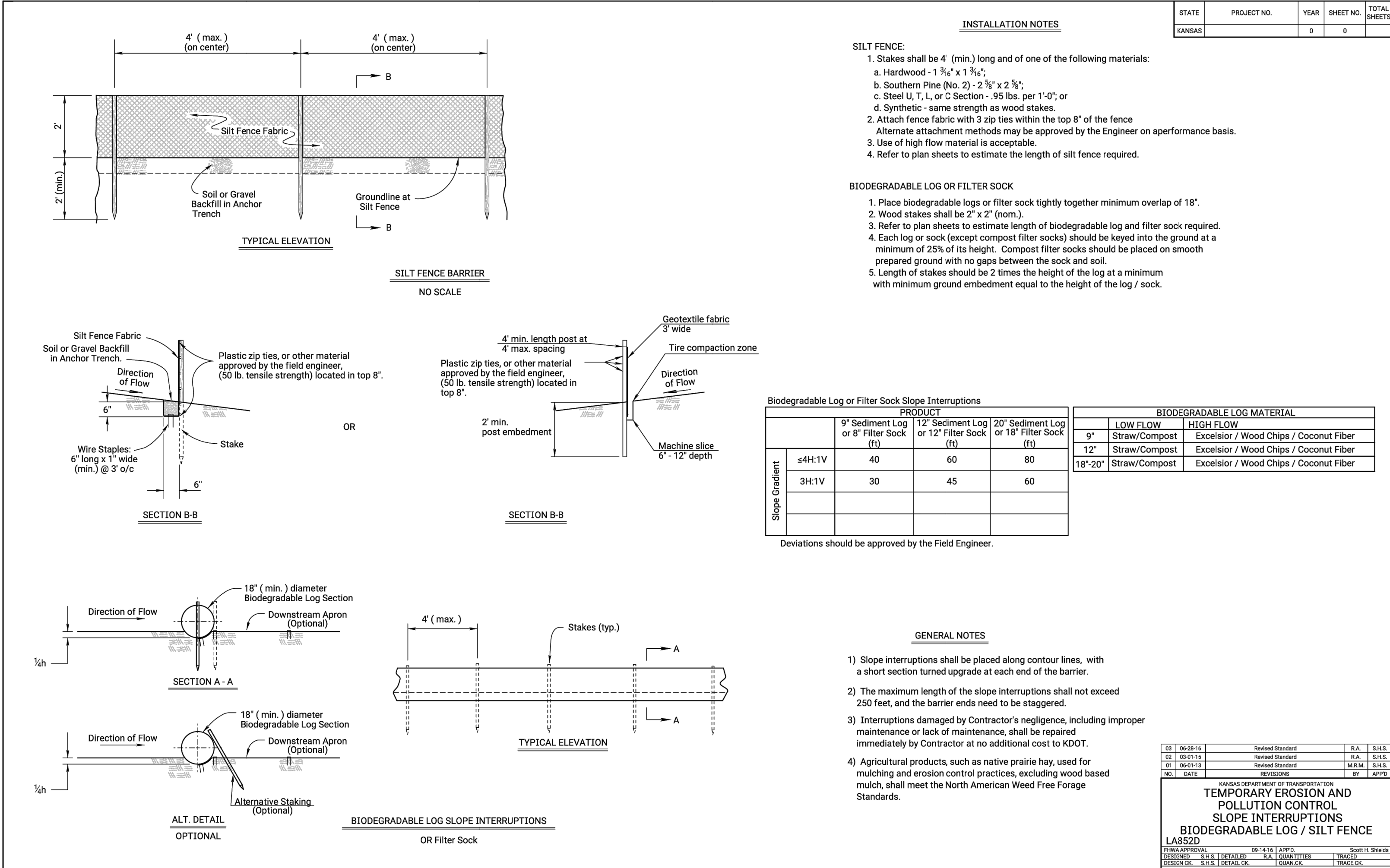
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DATE



2 SILT FENCE

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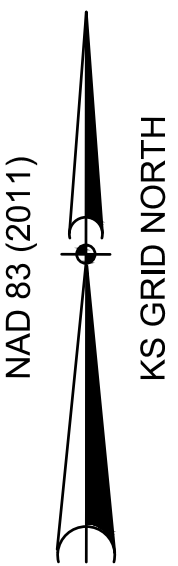
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SHEET TITLE

EROSION CONTROL NOTES &
DETAILS

SHEET NUMBER

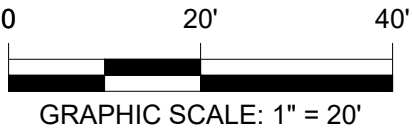
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LEGEND	
	PROPOSED EASEMENT LINE
	PROPERTY LINE
	RIGHT OF WAY LINE
	EXISTING WETLANDS

SITE DATA:

SITE ADDRESS:	811 4-H RD LANSING, KS 66043
PIN/MAP #:	052-107-25-0-00-00-175
LEGAL DESCRIPTION:	RYAN FAMILY FARMS SUB, S25, T09, R22E, LOT 1, ACRES 138.74 DEED BOOK/PAGE 10 /1372 09 /5186 09 /3222 08 /4521 08 /3650 0863/1650 0669/1081 0560/1707
ZONING:	AGRICULTURAL (A-1)
LAND USE:	VACANT LOT
PROPERTY ACREAGE:	138.74 AC / 6,043,602 SF
PROPOSED EASEMENT AREA:	0.89 AC / 38,627 SF
PROPOSED DISTURBED AREA:	0.99 AC / 43,191 SF
PROPOSED EASEMENT LAND USE:	TELECOMMUNICATIONS SUPPORT STRUCTURE (UTILITY)



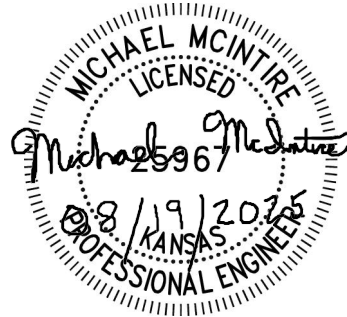
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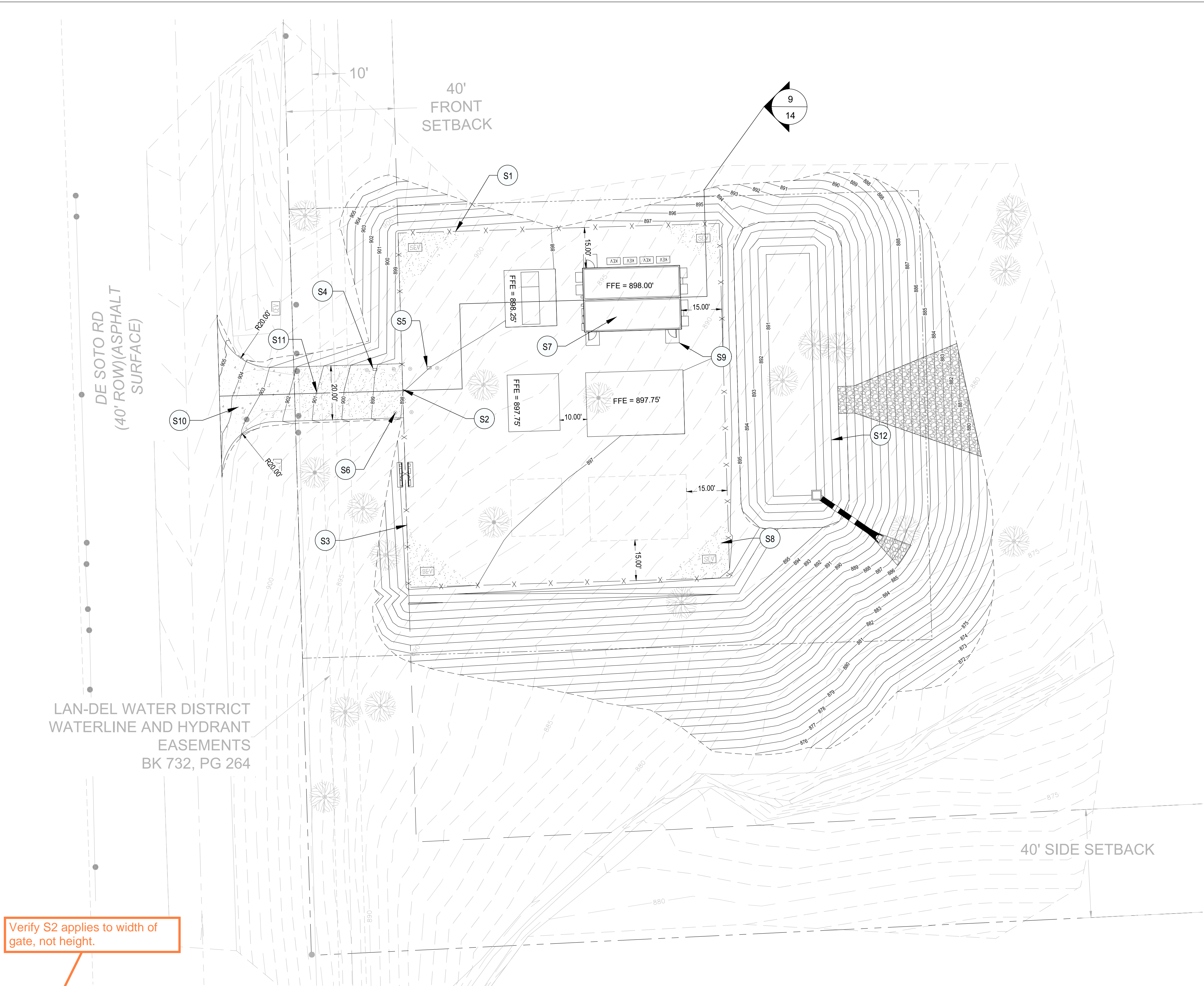
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PROPOSED EASEMENT EXHIBIT

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CONSTRUCTION NOTES

- S1

CONSTRUCT 8' HIGH CHAIN LINK FENCE W/ BARB WIRE & PRIVACY SLATS, SEE DETAIL

1
12
- S2

CONSTRUCT 16' WROUGHT IRON FENCE GATE, SEE DETAIL

4
12
- S3

CONSTRUCT 8' TALL WROUGHT IRON FENCE, SEE DETAIL

2
12
- S4

CONSTRUCT KEYPAD ACCESS CONTROL, PEDESTAL, AND KNOX BOX

3/5
13
- S5

CONSTRUCT REX EXIT BUTTON AND PEDESTAL

4/5
13
- S6

CONSTRUCT BOLLARDS AROUND GATE CONTROLLER AND GATE, 36IN SPACING, SEE DETAIL

6
11
- S7

CONSTRUCT CONCRETE SHELTER FOUNDATION, SEE DETAIL

1
17
- S8

CONSTRUCT GRAVEL PAVEMENT THROUGHOUT SITE, SEE DETAIL

10
14
- S9

CONCRETE APRON, SEE DETAIL

7
14
- S10

CONSTRUCT CONCRETE DRIVEWAY, SEE DETAIL

6
14
- S11

CONSTRUCT GRAVEL DRIVEWAY, SEE DETAIL

8
14
- S12

CONSTRUCT DETENTION POND, SEE DETAIL

1
8

LEGEND

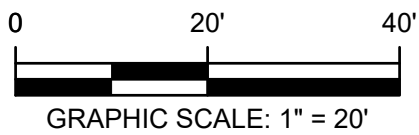
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	PROPERTY LINE
	RIGHT OF WAY LINE
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	EXISTING MINOR CONTOUR
	PROPOSED MAJOR CONTOUR
	PROPOSED MINOR CONTOUR
	PROPOSED EASEMENT LINE
	SETBACK LINE
	PROPOSED FIBER
	FENCE LINE
	GRAVEL
	CONCRETE
	EXISTING WETLANDS

SITE NOTES

- DIMENSIONS AND RADII ARE TO EDGE OF PAVEMENT, CONCRETE & GRAVEL PAD UNLESS SHOWN OTHERWISE.
- ALL NEW PAVEMENT ABUTTING EXISTING PAVEMENTS SHALL MATCH THE ELEVATION OF THE EXISTING.
- SEE GENERAL NOTES, SHEET 2.
- SITE DETAILS, SEE SHEET 12 - 15.
- PROPOSED EASEMENT EXHIBIT, SEE SHEET 9.
- NO SITE LIGHTING WILL BE A PART OF THIS PROJECT.

SITE DATA:

SITE ADDRESS:	811 4-H RD LANSING, KS 66043
PIN/MAP #:	052-107-25-0-00-00-175
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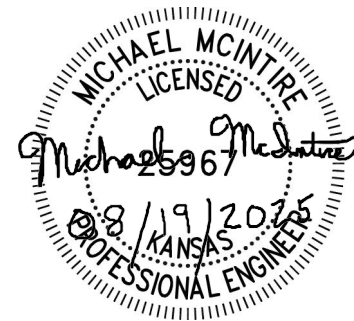
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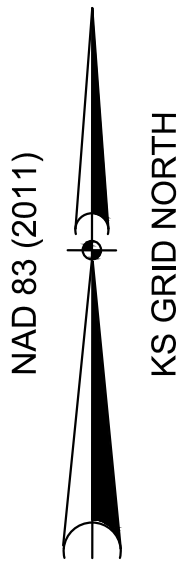
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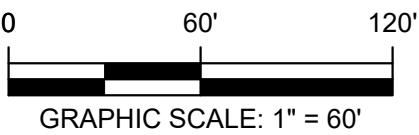
SITE PLAN

SHEET NUMBER

10



LEGEND	
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<div></div>	PROPERTY LINE
<div></div>	RIGHT OF WAY LINE
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<div><div>761</div></div>	EXISTING MINOR CONTOUR
<div><div>760</div></div>	PROPOSED MAJOR CONTOUR
<div><div>761</div></div>	PROPOSED MINOR CONTOUR
<div></div>	PROPOSED EASEMENT LINE
<div></div>	SETBACK LINE
<div><div>U-FOC</div></div>	PROPOSED FIBER
<div></div>	FENCE LINE
<div></div>	GRAVEL
<div></div>	CONCRETE
<div></div>	EXISTING WETLANDS



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SIGHT DISTANCE EXHIBIT

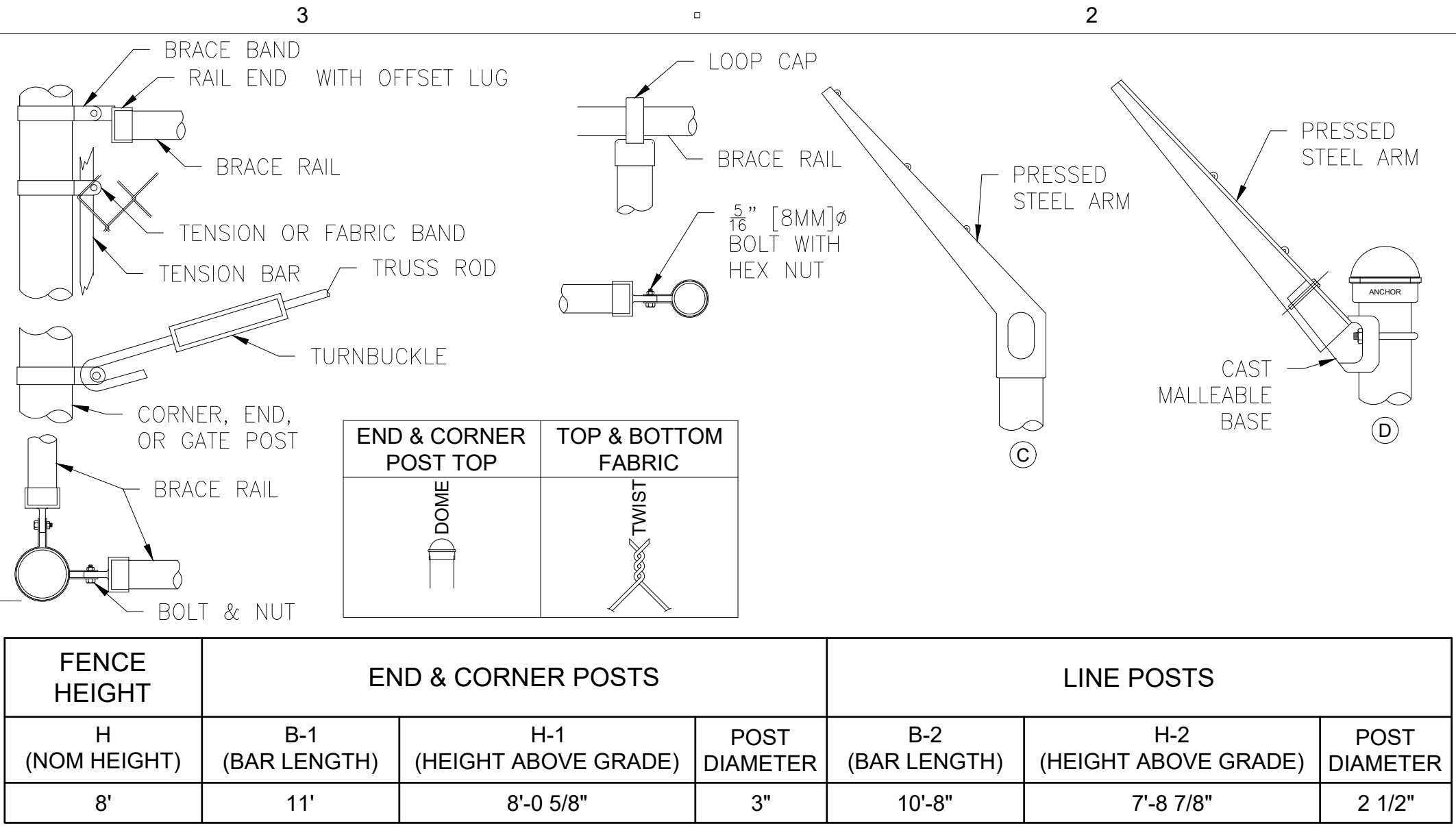
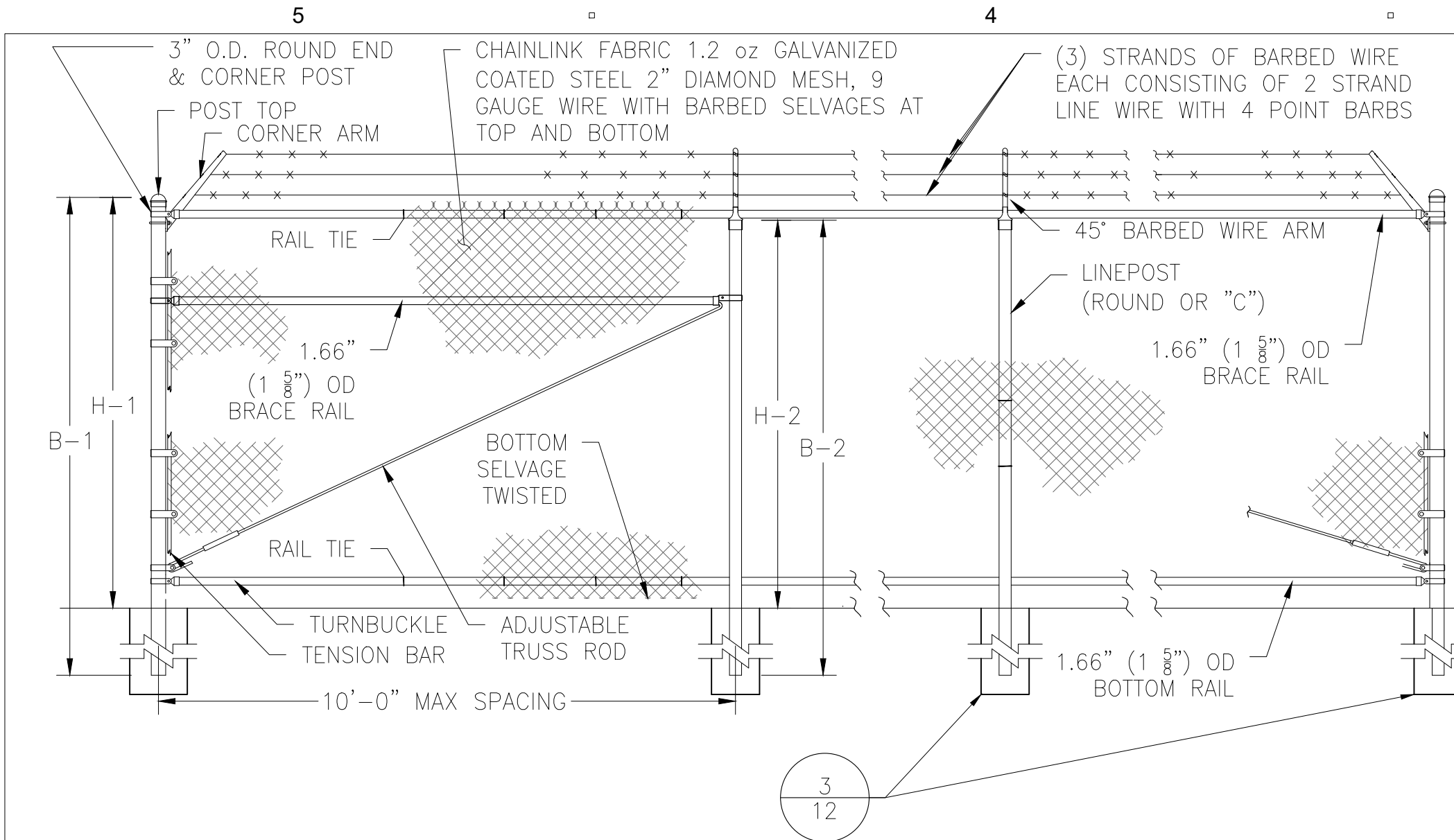
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1/12 CHAIN LINK FENCE W/ BARB WIRE NOT TO SCALE

3/12 FENCE POST FOUNDATION DETAIL NOT TO SCALE

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ISSUE/REVISION

I/R	DATE	DESCRIPTION
1	08/19/2025	Site Plan Comments

PROJECT NUMBER

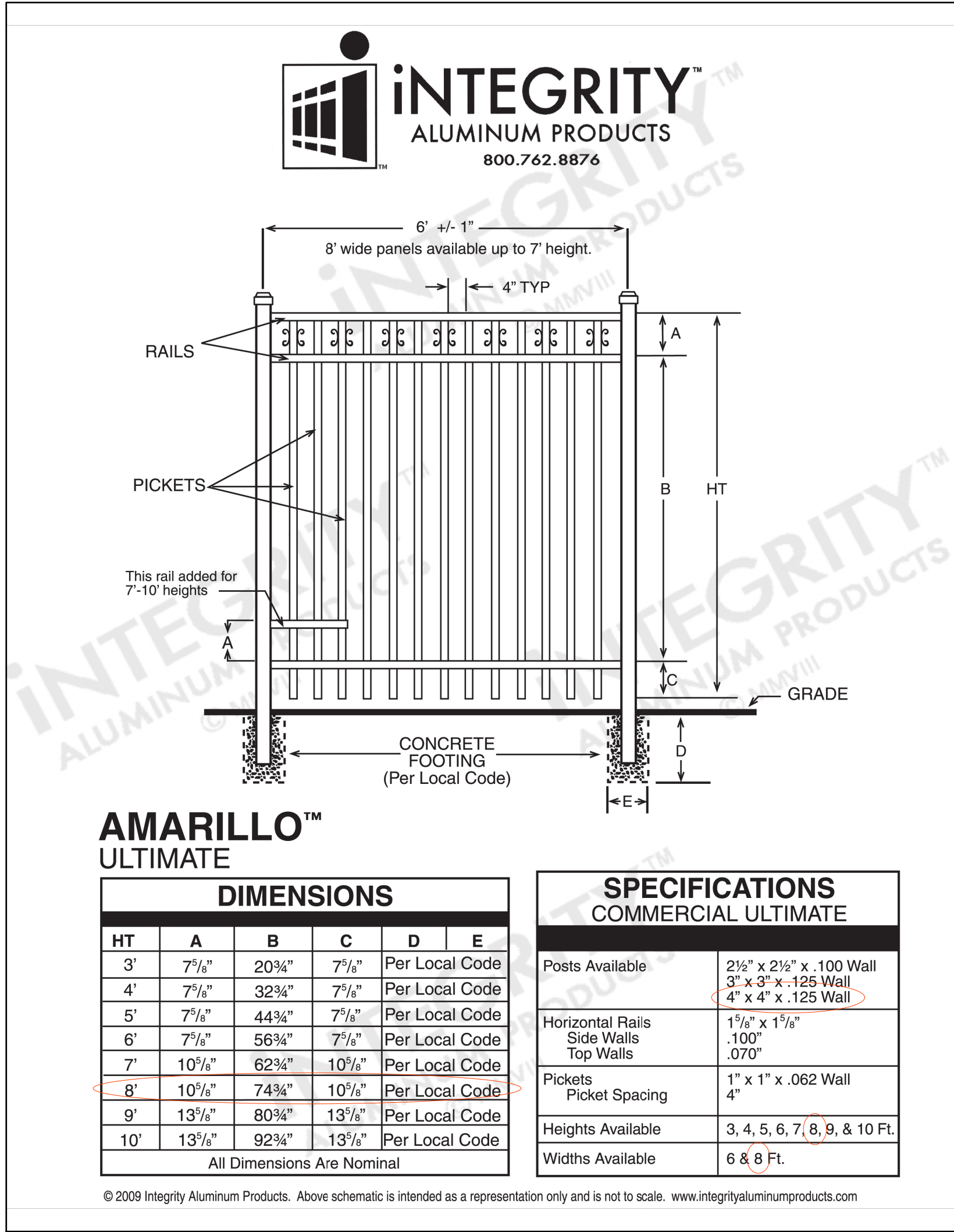
60645418

SHEET TITLE

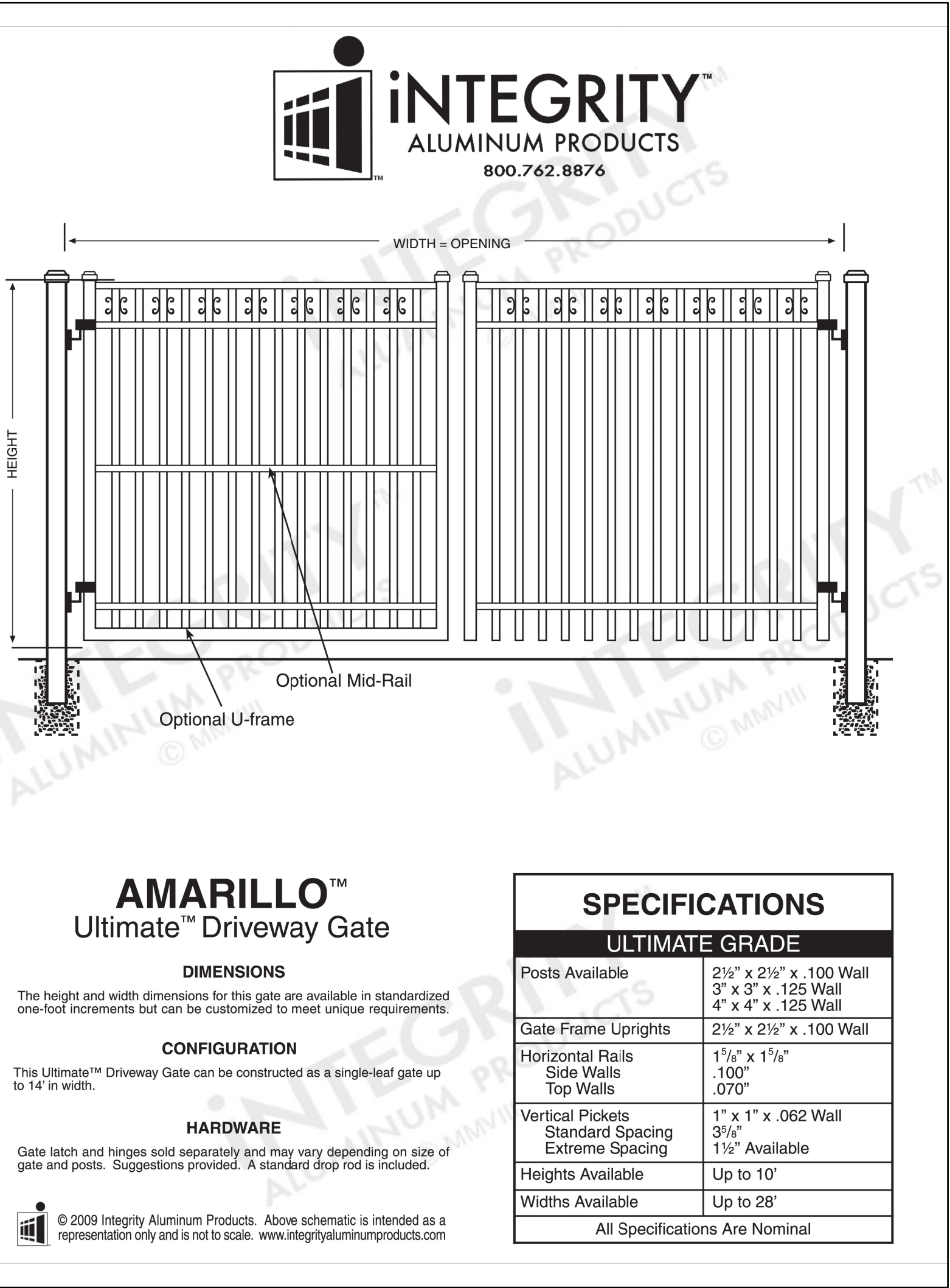
SITE DETAILS-1

SHEET NUMBER

12



2/12 WROUGHT IRON FENCE NOT TO SCALE



4/12 16' WROUGHT IRON FENCE GATE NOT TO SCALE

ISSUE FOR BID
DATE OF ISSUE: 08/19/2025

Project Management Initials: _____ Designer: _____ Checked: _____ Approved: _____

ANSI D 22" x 34"

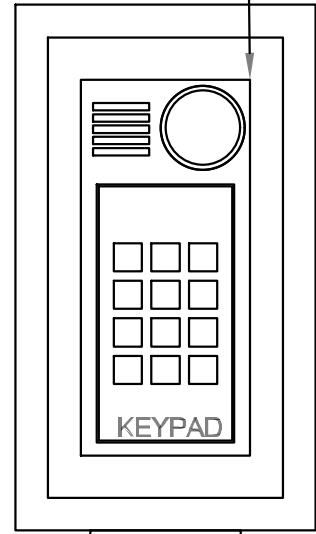
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ANSI D 22" x 34"

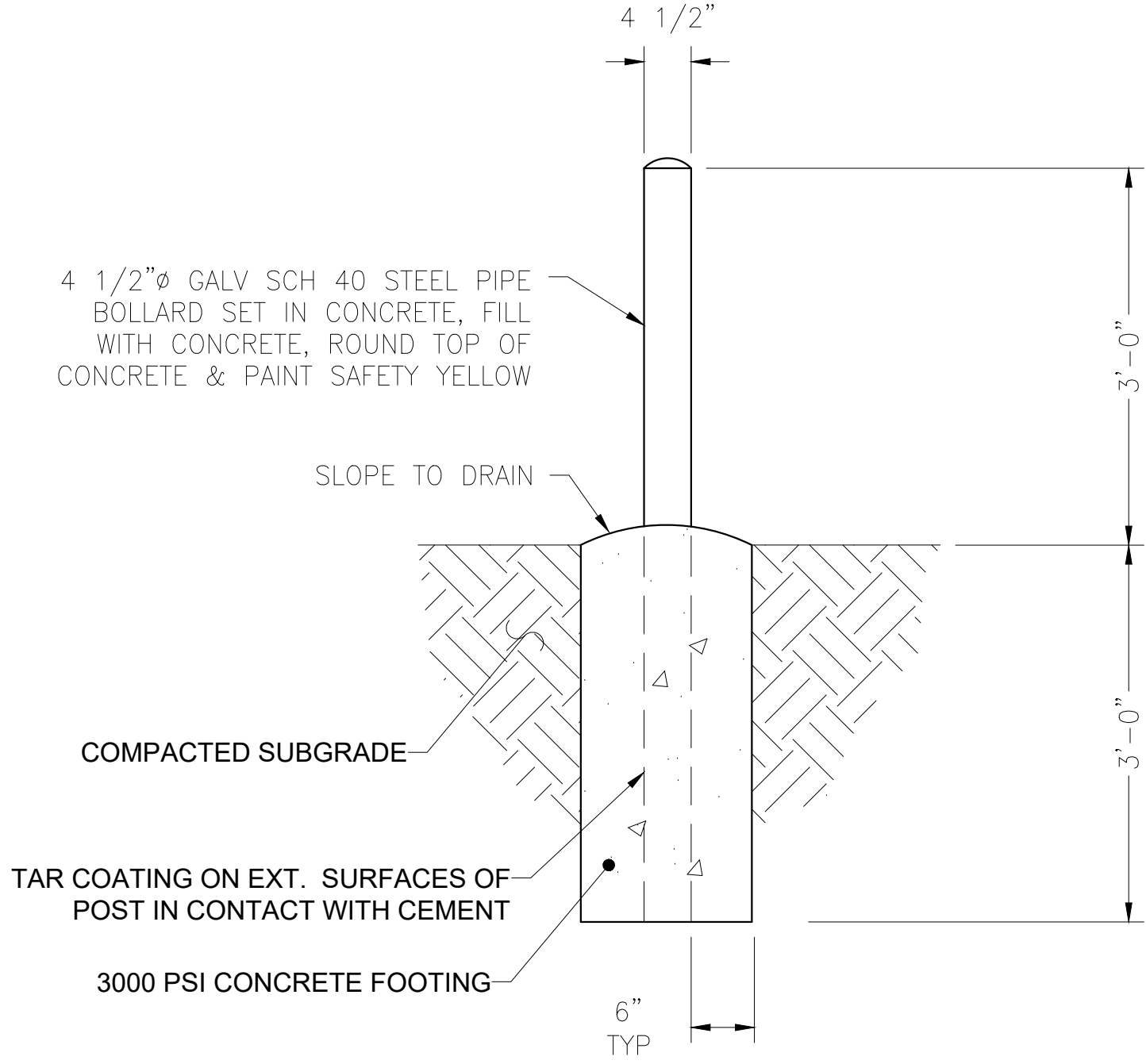
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Last saved by: BOBENGT(2025-04-09) Last Plotted: 2025-07-21

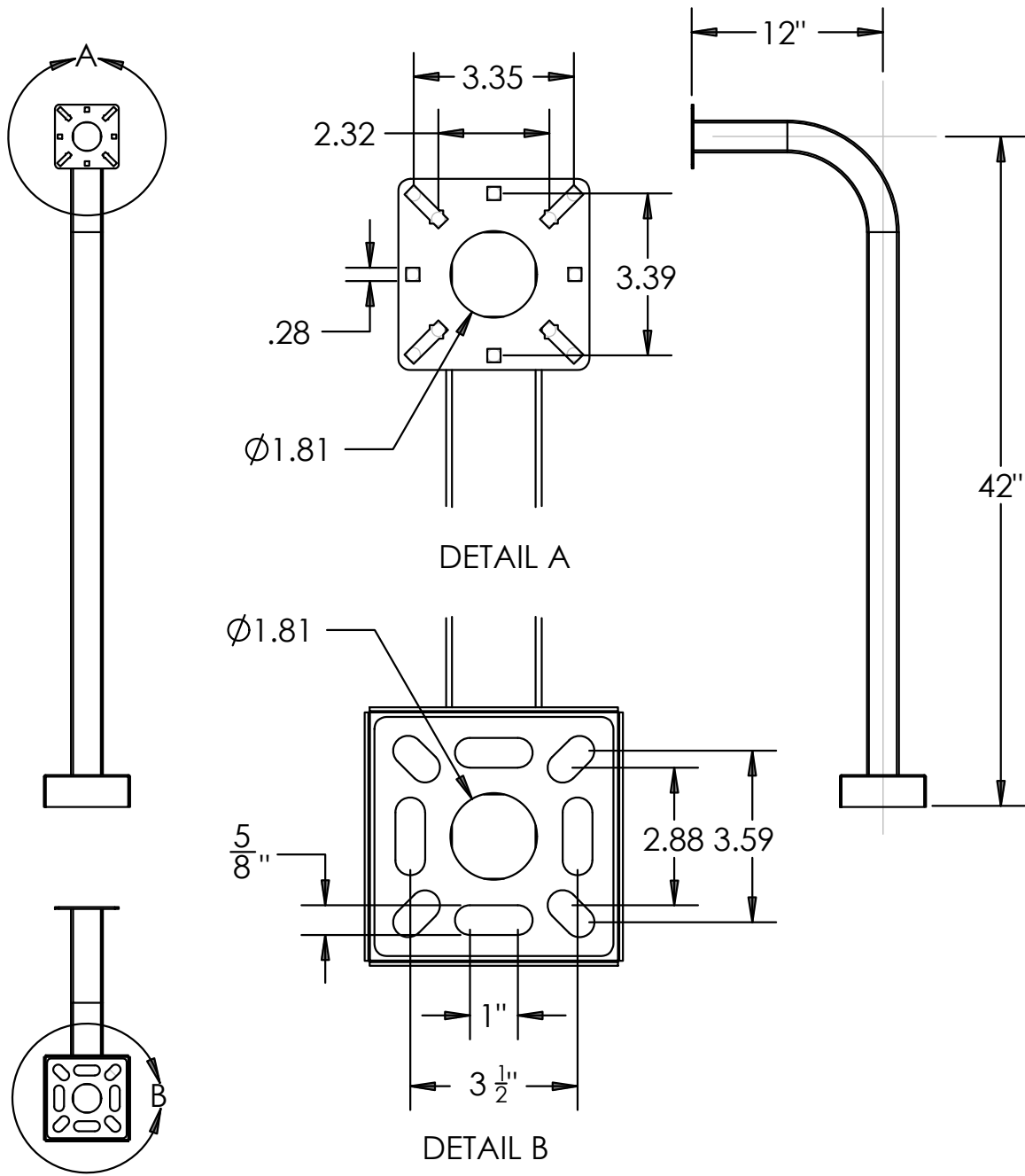
AXIS A8207-VE MKII
(LOOSE WITH SHELTER)



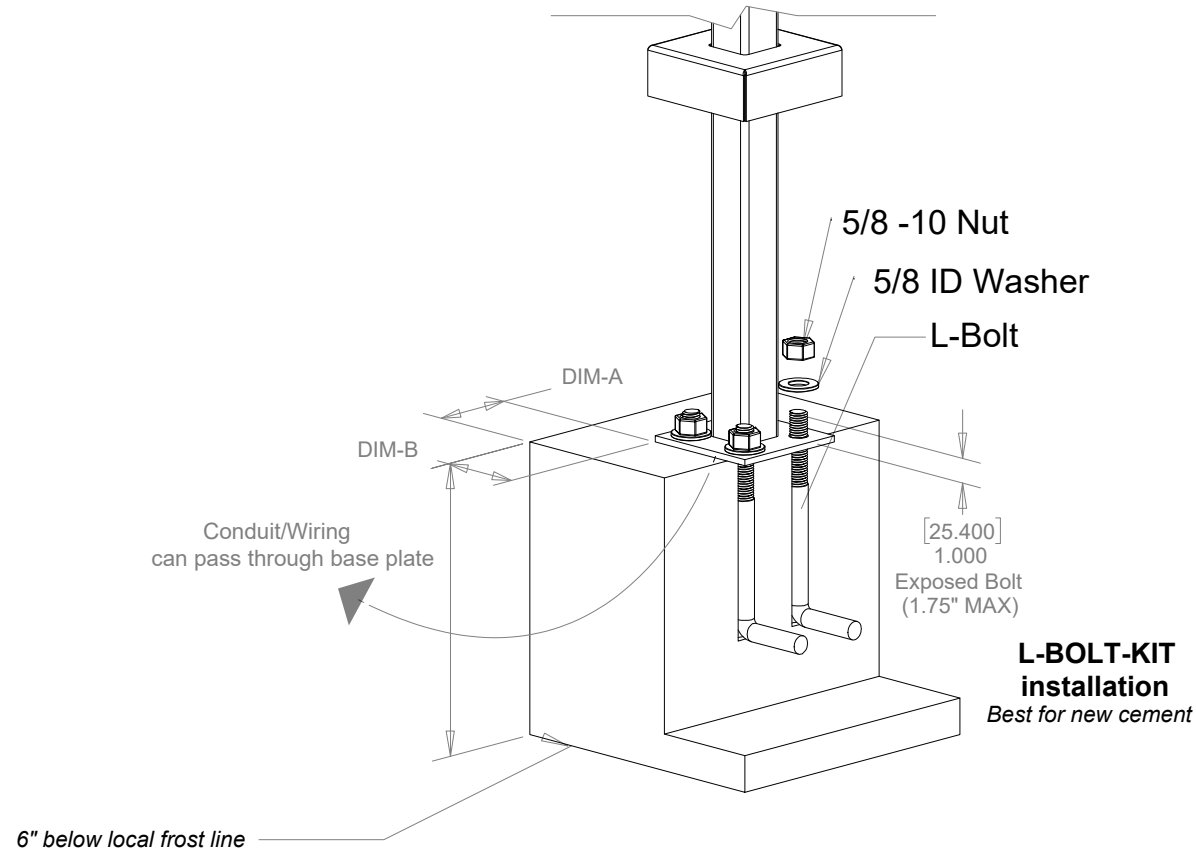
3 ENTRANCE KEYPAD
13 NOT TO SCALE



6 BOLLARD
13 NOT TO SCALE



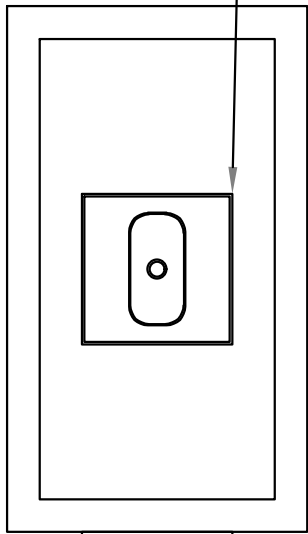
5 PEDESTAL PRO (PORTA-CS-8X14-E)
13 NOT TO SCALE



CEMENT PAD SUGGESTIONS		
Plate Size	DIM-A	DIM-B
5x5	5"	5"
8x8	6"	6"
12x12	8"	8"

- NOTES:
1. PLACE BOLTS IN WET CEMENT (FOR ADDED STRENGTH ADD REBAR OVER "L" BOLTS).
 2. AFTER CEMENT HAS CURED, PLACE PEDESTAL.
 3. INSTALL WASHER AND NUTS.

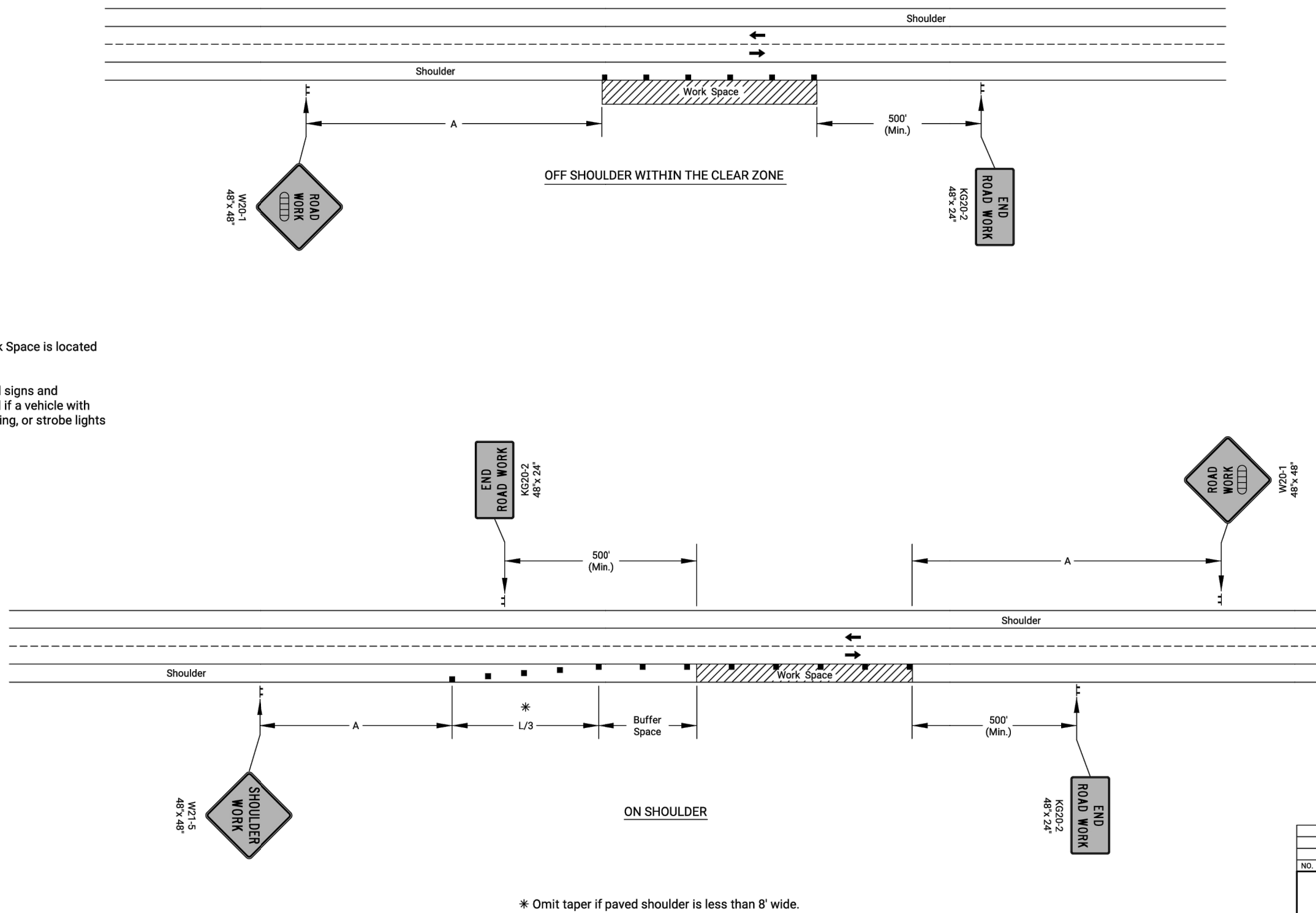
REX EXIT PUSH BUTTON
(MMTC PN: 1BXIC)



4 REX EXIT BUTTON
13 NOT TO SCALE

- Notes:
- No traffic control is required if the Work Space is located outside of the clear zone.
- For operations of 60 minutes or less, all signs and channelizing devices may be eliminated if a vehicle with high-intensity rotating, flashing, oscillating, or strobe lights is used.

- Channelizing Device
- Ahead, 1500 ft, or 1 Mile



* Omit taper if paved shoulder is less than 8' wide.

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	0	0	0	0

REVISIONS			
NO.	DATE	BY	APPROVED
KANSAS DEPARTMENT OF TRANSPORTATION			
TRAFFIC CONTROL			
SHOULDER WORK			
UNDIVIDED ROADWAY			
TE720			
DESIGNER	CHECKER	APPROVER	REVIEWER
DESIGNER	DETAILER	QUANTITY	TRACE
DESIGNER	DETAILER	QUANTITY	TRACE

ISSUE FOR BID
DATE OF ISSUE: 07/21/2025

AECOM

PROJECT

MMI - ILA SHELTER
MCI1.12
LANSING, KS

PARCEL ID: 052-107-25-0-00-00-175
811 4-H RD
LANSING, KS 66043

CLIENT

Middle Mile Infrastructure

CONSULTANT

AECOM Technical Services, Inc.
10 Patewood Drive, Suite 500
Greenville, SC 29615
License Number: E-511
1-864-234-3069 tel
www.aecom.com



REGISTRATION

ISSUE/REVISION

I/R	DATE	DESCRIPTION

PROJECT NUMBER

60645418

SHEET TITLE

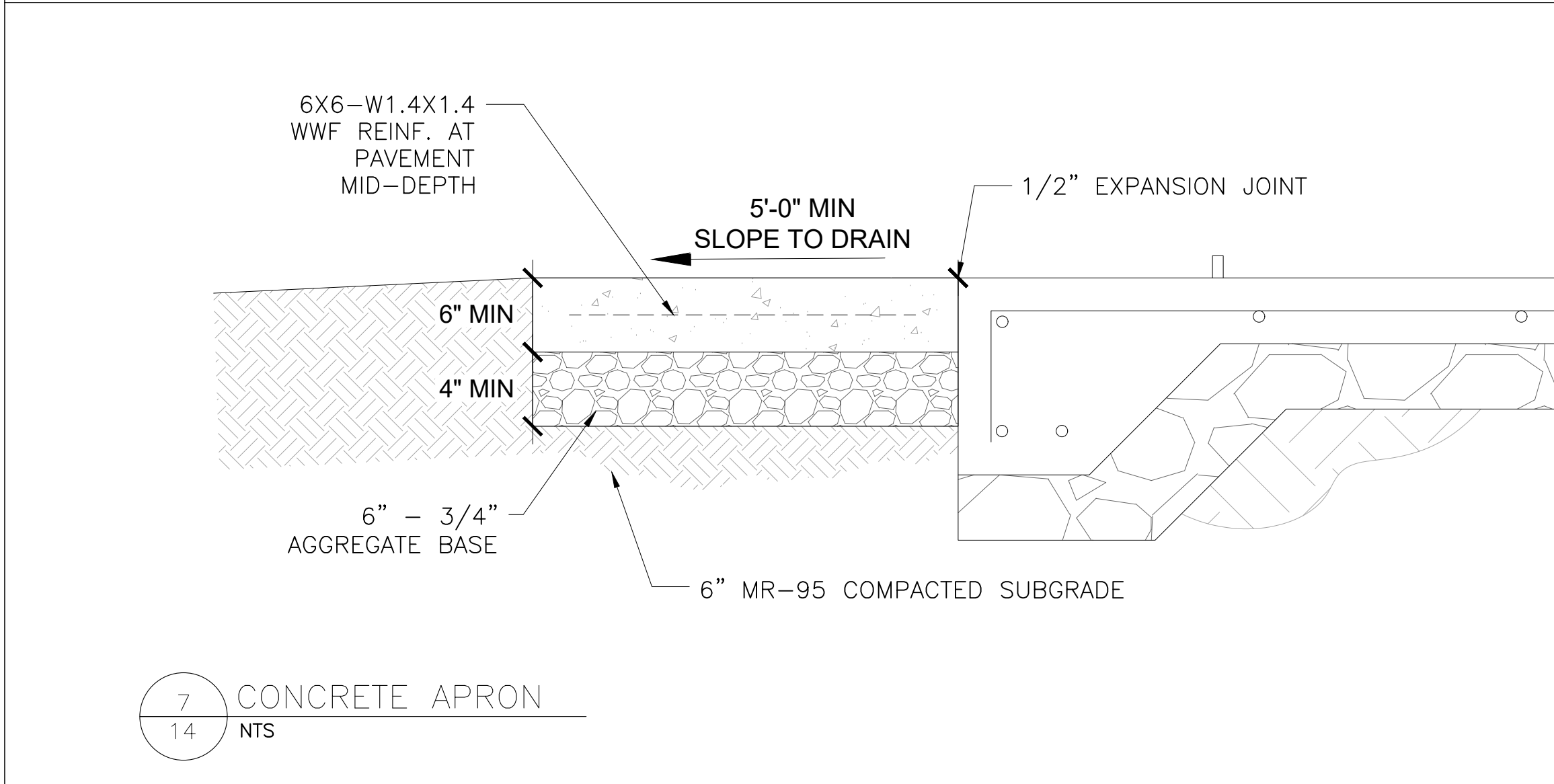
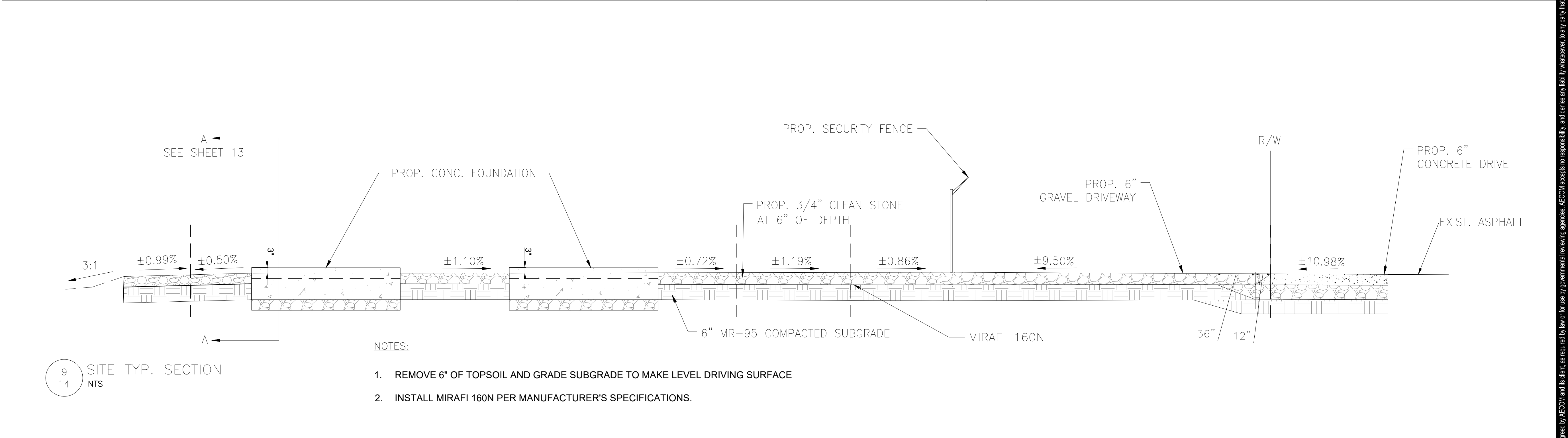
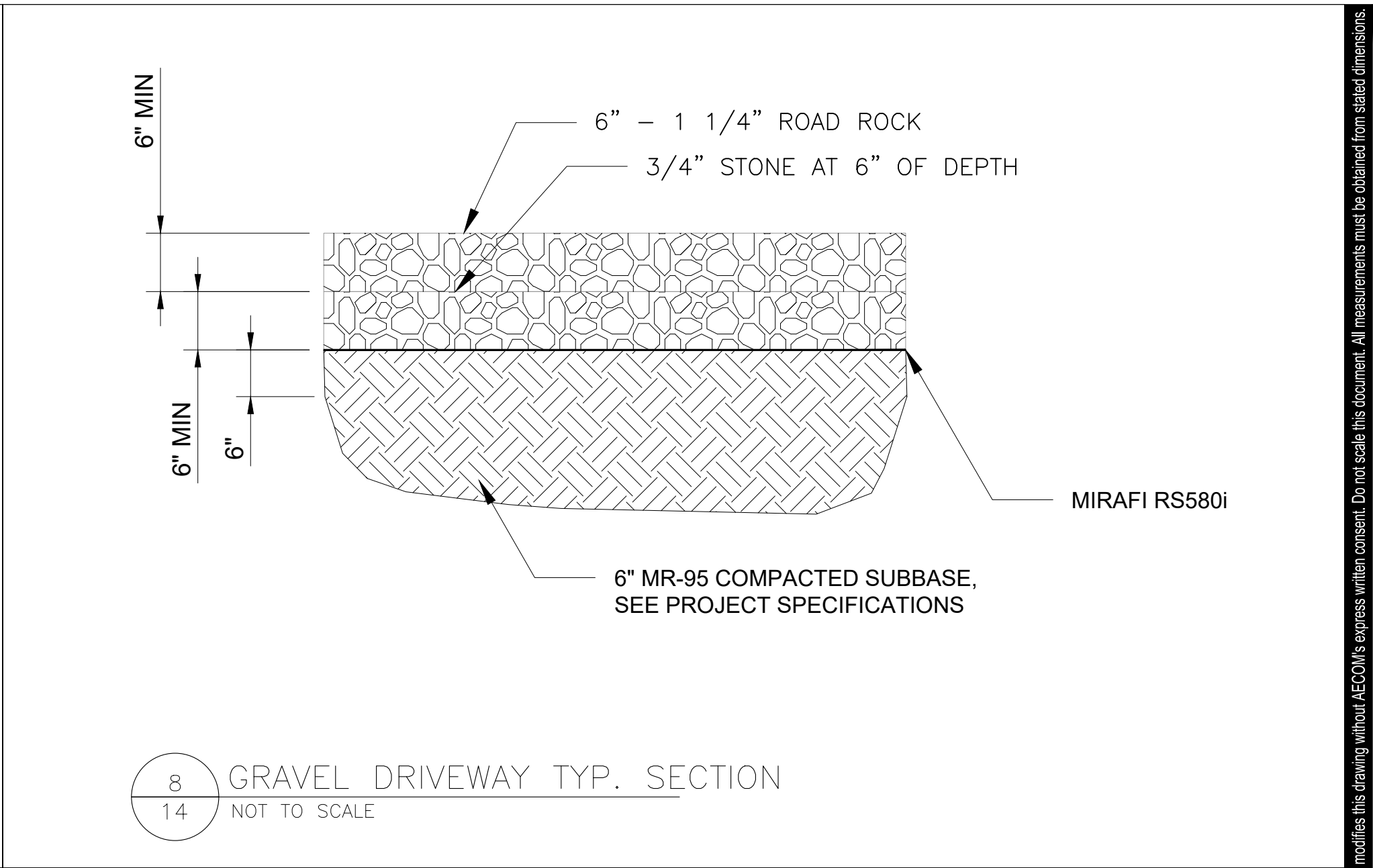
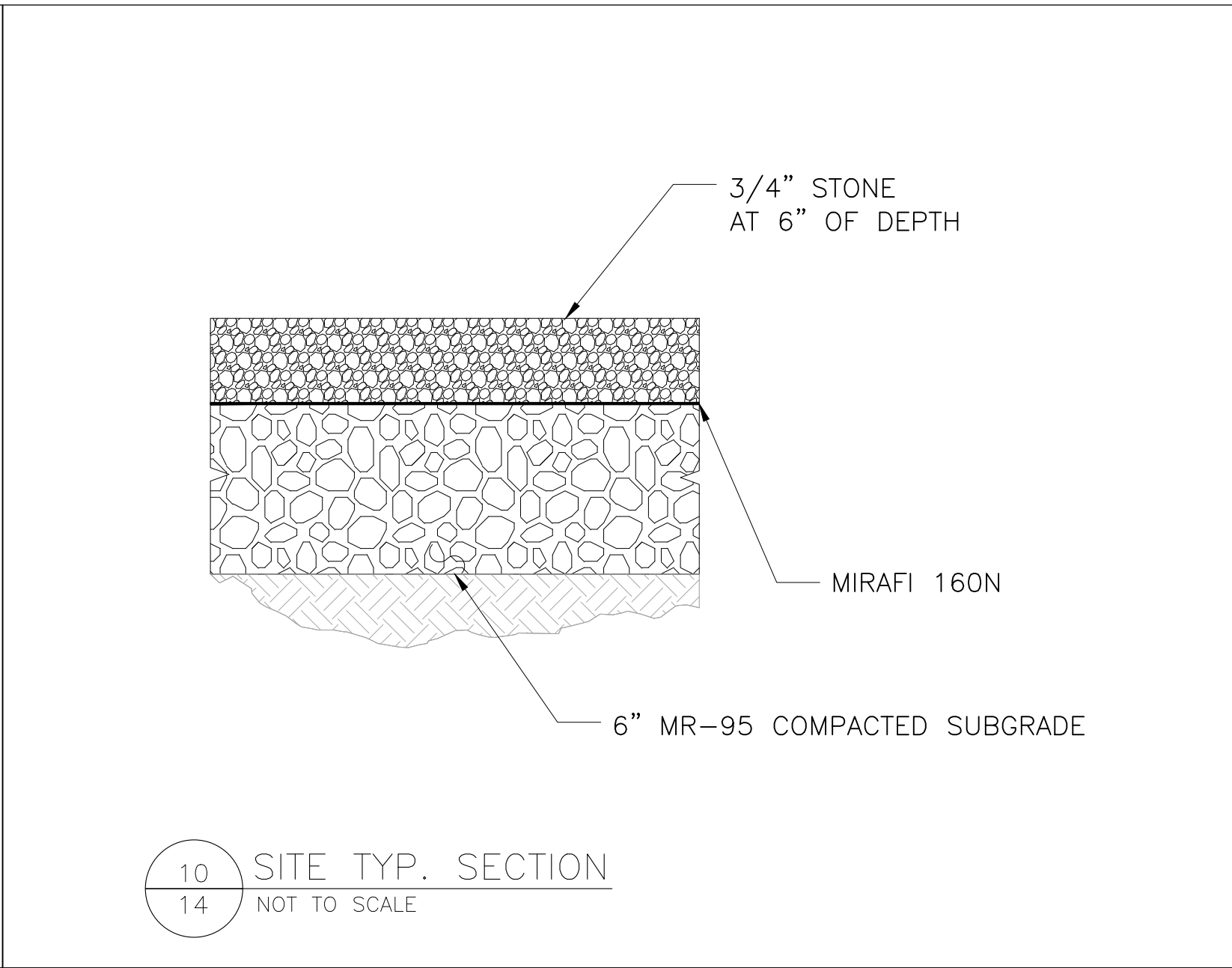
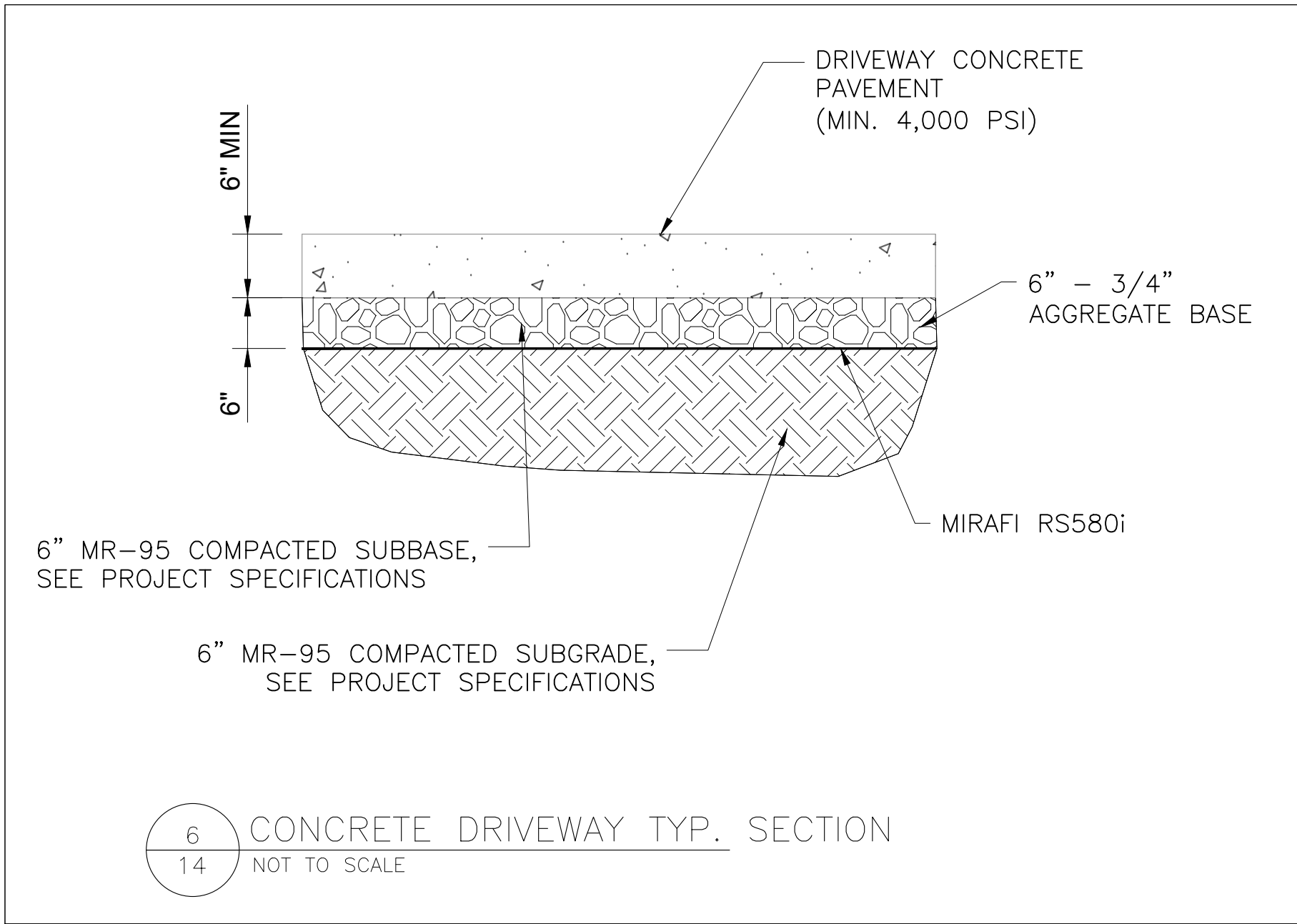
SITE DETAILS-2

SHEET NUMBER

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Project Management Initials: Designer: Checked: Approved: ANS I D 22" x 34"

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ISSUE FOR BID
DATE OF ISSUE: 07/21/2025

AECOM

PROJECT

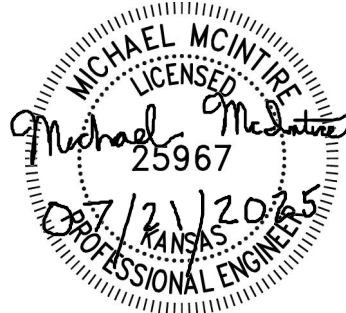
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MCI1.12
LANSING, KS
PARCEL ID: 052-107-25-0-00-00-175
811 4-H RD
LANSING, KS 66043

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10 Patewood Drive, Suite 500
Greenville, SC 29615
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1-864-234-3069 tel
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REGISTRATION

ISSUE/REVISION

I/R	DATE	DESCRIPTION

PROJECT NUMBER

60645418

SHEET TITLE

SITE DETAILS-3

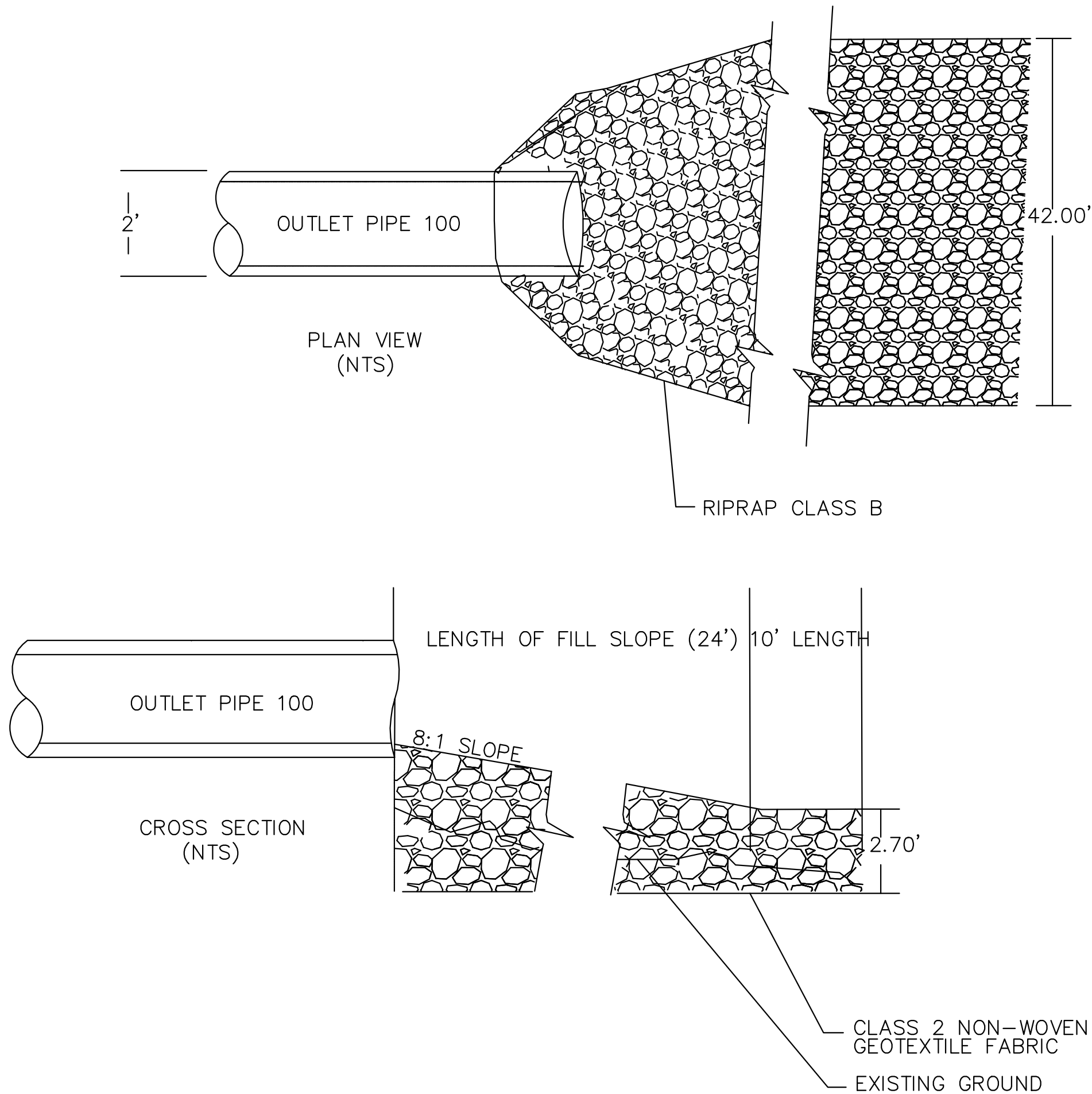
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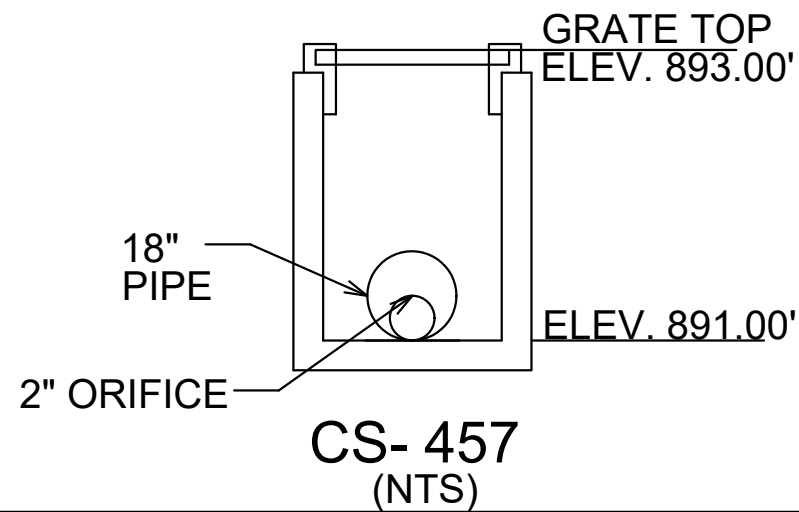
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5 4 3 2 1

OUTLET PROTECTION AND FILL SLOPE DETAIL



RISER ELEVATION DETAIL



PRECAST CONCRETE RISER WITH BASE DETAIL

PRECAST CONCRETE RISER WITH BASE DETAIL

ENSURE ALL RISER (MANHOLE) MATERIALS, MANUFACTURING, TESTING AND PRODUCT PERFORMANCE FOR PRECAST CONCRETE COMPONENTS AND ACCESSORIES ARE IN ACCORDANCE WITH AASHTO M199 AND SECTION 719 OF THE KDOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, 2025 EDITION, OR LATEST REVISION.

USE PRECAST CONCRETE COMPONENTS DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF THE LATEST AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS.

USE PRECAST CONCRETE MANHOLES WITH A HL-93 DESIGN LIVE LOADING.

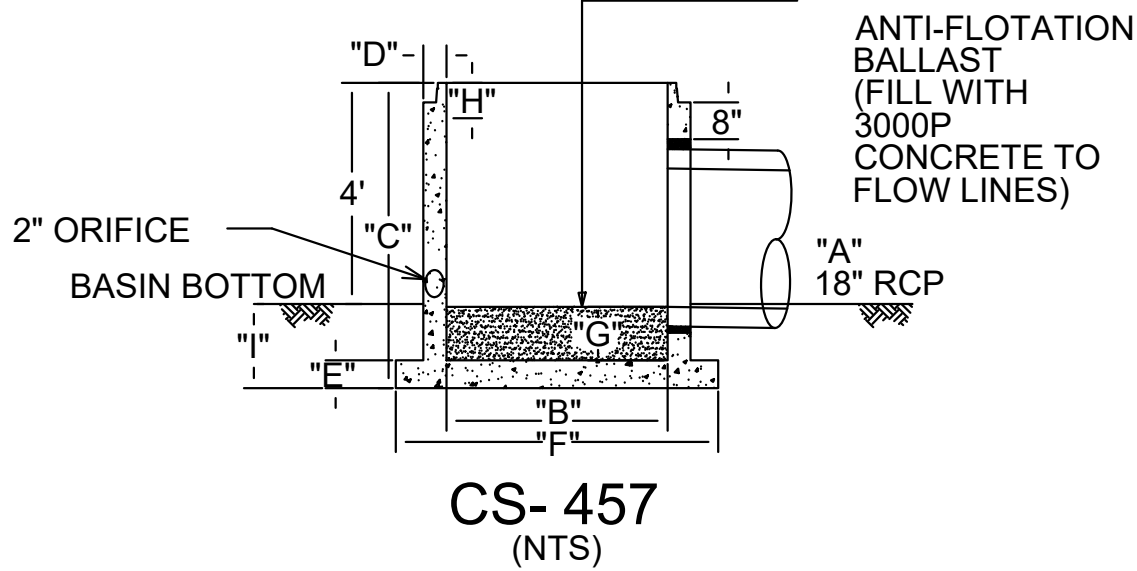
USE CLASS 4000P CONCRETE (MINIMUM) FOR ALL PRECAST CONCRETE ELEMENTS.

USE REINFORCING BARS CONFORMING TO THE REQUIREMENTS OF ASTM A706, GRADE 60.

USE WELDED WIRE FABRIC MEETING THE REQUIREMENTS OF AASHTO M55 AND AASHTO M221.

USE WATER TIGHT PIPE BARREL TO RISER CONNECTIONS.

FILL CLASS 3000P (MINIMUM) CONCRETE TO THE FLOW LINE OF THE OUTLET PIPE TO SERVE AS ANTI-FLOTATION BALLAST.



OUTLET PIPE DIAMETER (A) INCHES	RISER DIAMETER (B) FT	RISER HEIGHT (C) INCHES	WALL THICKNESS (D) INCHES MIN.	BASE THICKNESS (E) INCHES MIN.	BASE DIAMETER (F) INCHES MIN.	ANTI FLOAT BALLAST (G) IN	TOP JOINT (H) INCHES	RISER RECESS (I) INCHES
18	2	30	5	6	70	12	4	18



PROJECT

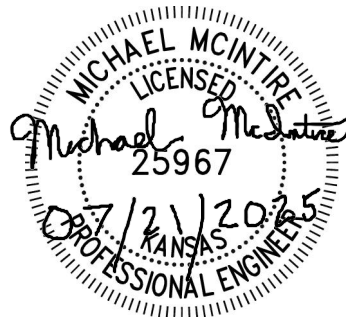
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MCI1.12
LANSING, KS
PARCEL ID: 052-107-25-0-00-00-175
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LANSING, KS 66043

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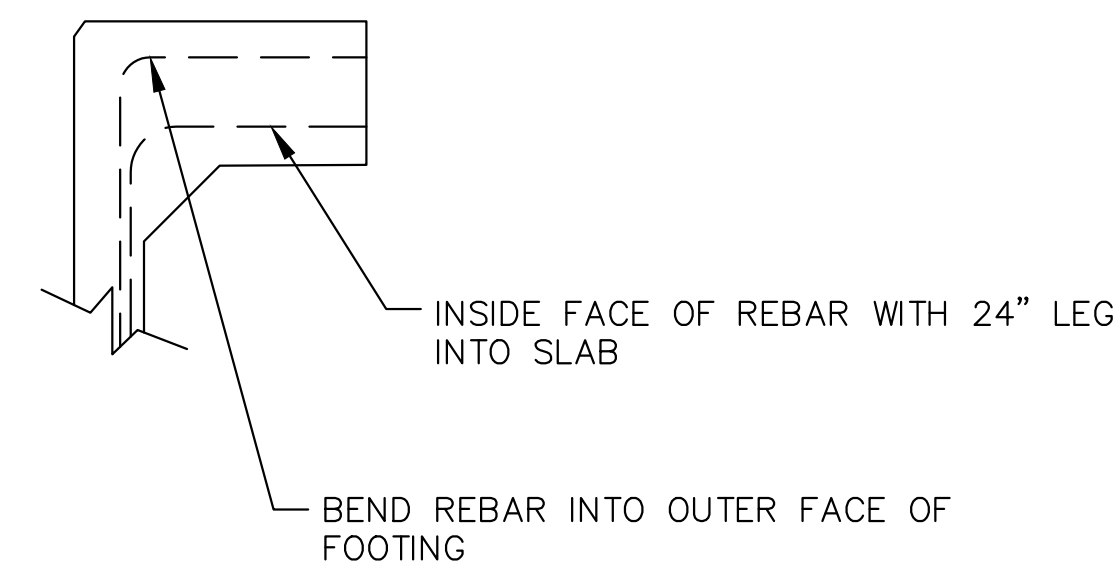
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SITE DETAILS-4

SHEET NUMBER

15

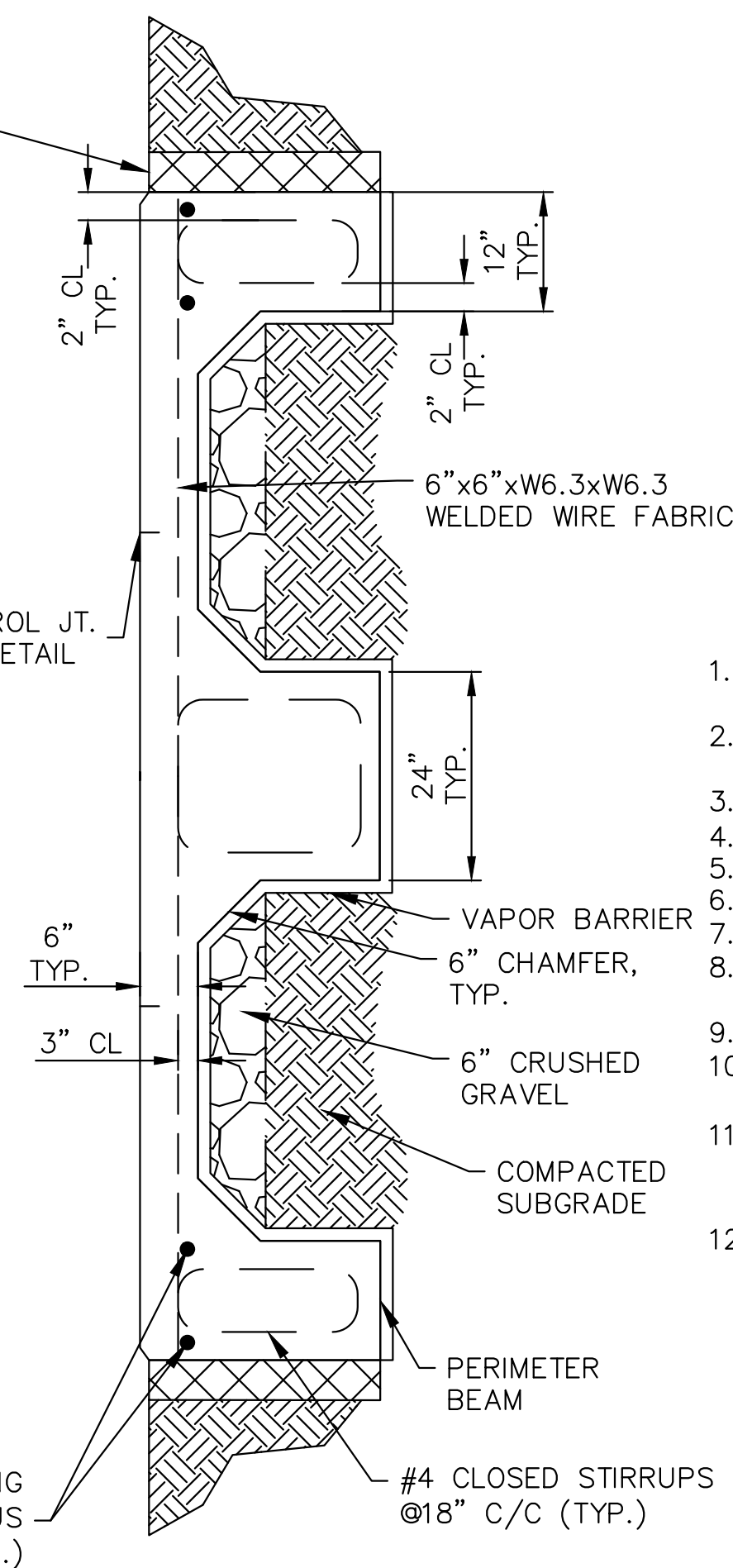
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NO STIRRUP OPTION
SCALE: N.T.S

NOTES:

1. WELDED WIRE FABRIC OR OPTIONAL REINFORCING BAR MAY BE USED AS AVAILABLE. SEE CHART FOR SIZE, GRADE, AND SPACING OF REBAR.
2. BOTTOM OF FOOTING TO BE 24" MIN. OR 6" BELOW LOCAL FROST LINE, OR TO 2000 PSF SOIL BEARING CAPACITY, WHICHEVER IS GREATER.
3. USE OF THIS DESIGN REQUIRES VERIFICATION OF SOIL BEARING CAPACITY.
4. SLAB TOLERANCE IS $\pm \frac{1}{4}$ "
5. SLOPE GRADE AWAY FROM FOUNDATION.
6. WWF IS 60 KSI MINIMUM.
7. OVERLAP SPLICES ARE ALLOWED FOR REINFORCING BAR, USE 21" MINIMUM LAP.
8. ALL REQUIRED TIE DOWN PLATES, SHIMS, BOLTS, AND ANCHORS SHALL BE PLACED INSIDE SHELTER PRIOR TO SHIPMENT FROM MANUFACTURER.
9. CONCRETE STRENGTH: $F_c' = 3000$ PSI @ 28 DAYS.
10. USE SHIMS AS REQUIRED TO ASSURE SHELTER IS BEARING AT PERIMETER. SEAL PERIMETER W/CAULK OR GROUT AS DESIRED.
11. REBAR TO BE GROUNDED W/SOLID COPPER WIRE, #4 MIN. ONE LOCATION MIN, DEFAULT TO BE AT ELECTRICAL SERVICE ENTRY LOCATION. QTY, SIZE, & LOCATION(S) MAY VARY AS SPECIFIED BY CUSTOMER. PIGTAIL(S) TO BE MADE ACCESSIBLE FOR BONDING TO SERVICE GROUND.
12. SLAB INSULATION ONLY TO BE INSTALLED BY SIT CONTRACTOR AS REQUIRED, EXTENDING FROM TOP OF SLAB TO BOTTOM OF FOOTING. INSULATING VALUE, ATTACHMENT METHOD, AND COVERING OBTAINED FROM LOCALITY'S ENERGY CODE.

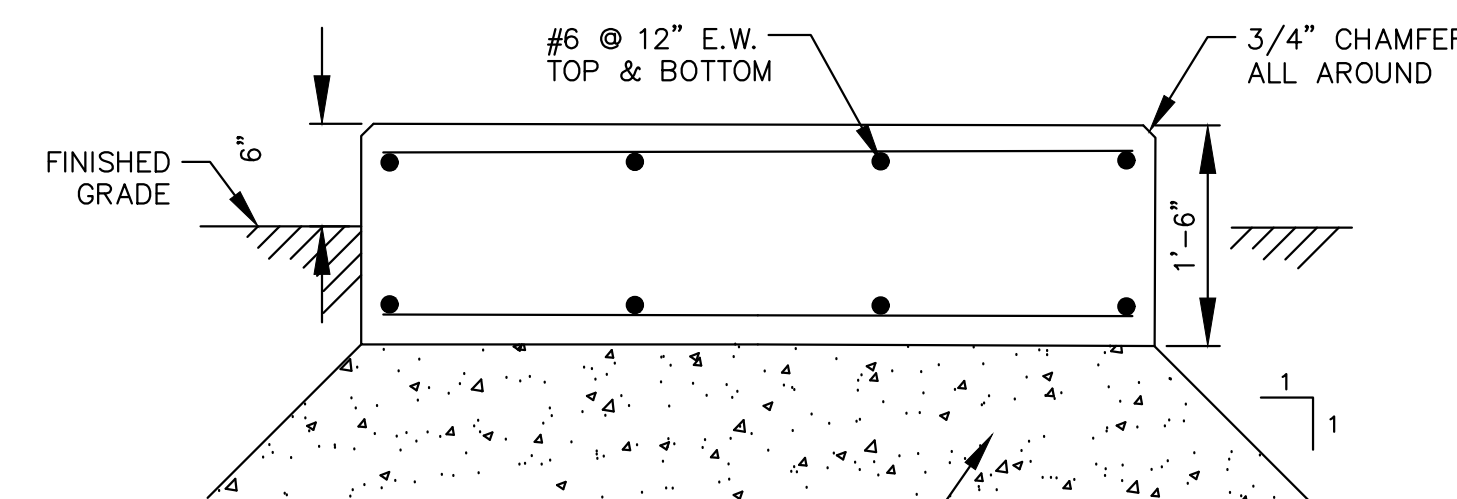


SECTION A-A



OPTIONAL REINFORCING BARS		
SIZE	GRADE	LAT/LONG SPACING
#3	60	10" C/C
#4	60	18" C/C
#5	60	18" C/C

CONTROL JOINT

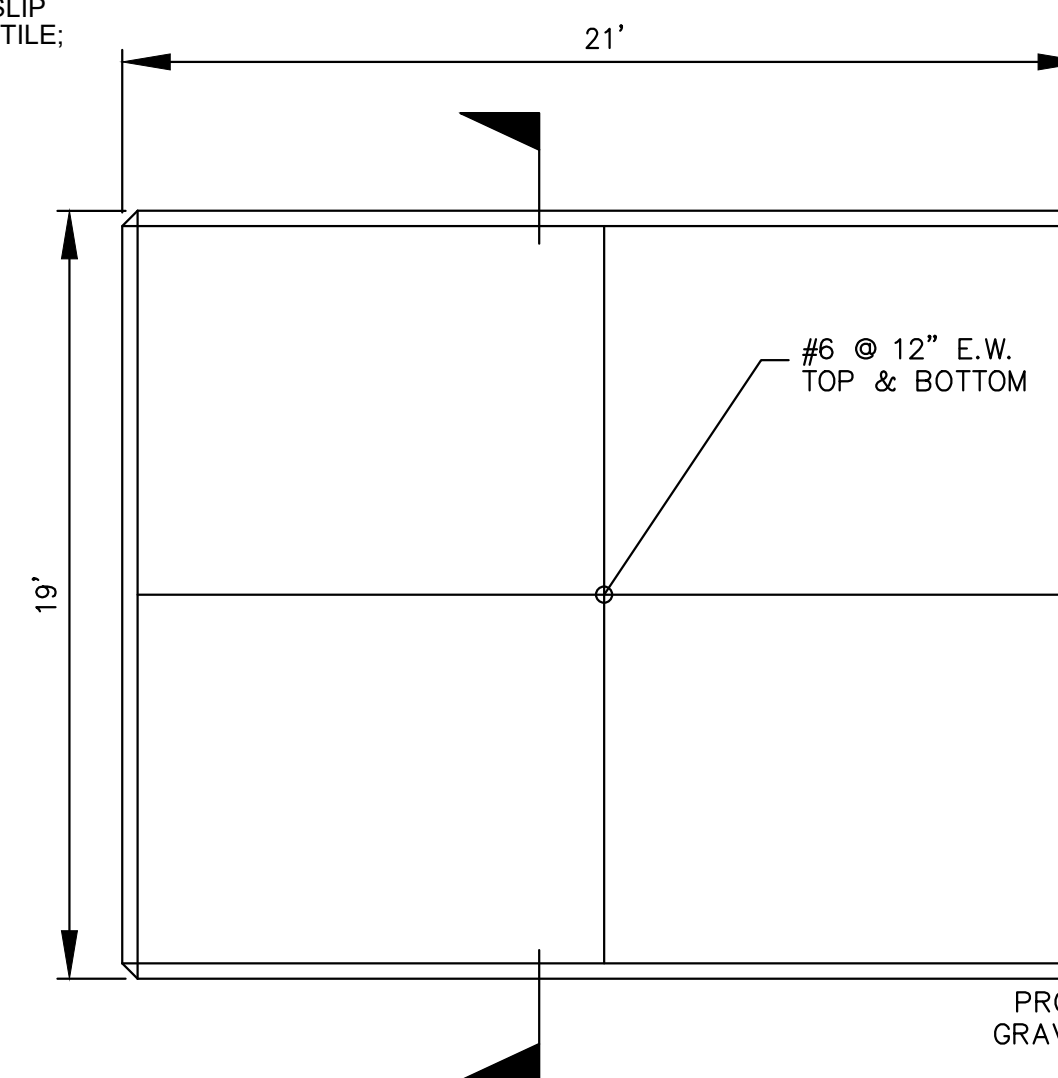


PROVIDE 6" LAYERS OF FREE DRAINING, NON-FROST SUSCEPTIBLE GRAVEL BACKFILL HAVING NOT MORE THAN 5% BY WEIGHT PASSING NO. 200 SIEVE. THE LIMITS OF BACKFILL ARE DEFINED BY AN OUTWARD SLOPE OF 1:1 FROM THE PERIMETER OF THE PAD TO A DEPTH OF THE SPECIFIED FROST DEPTH BELOW FINISHED GRADE. COMPACT EACH LAYER TO 95% OF MAXIMUM DENSITY.

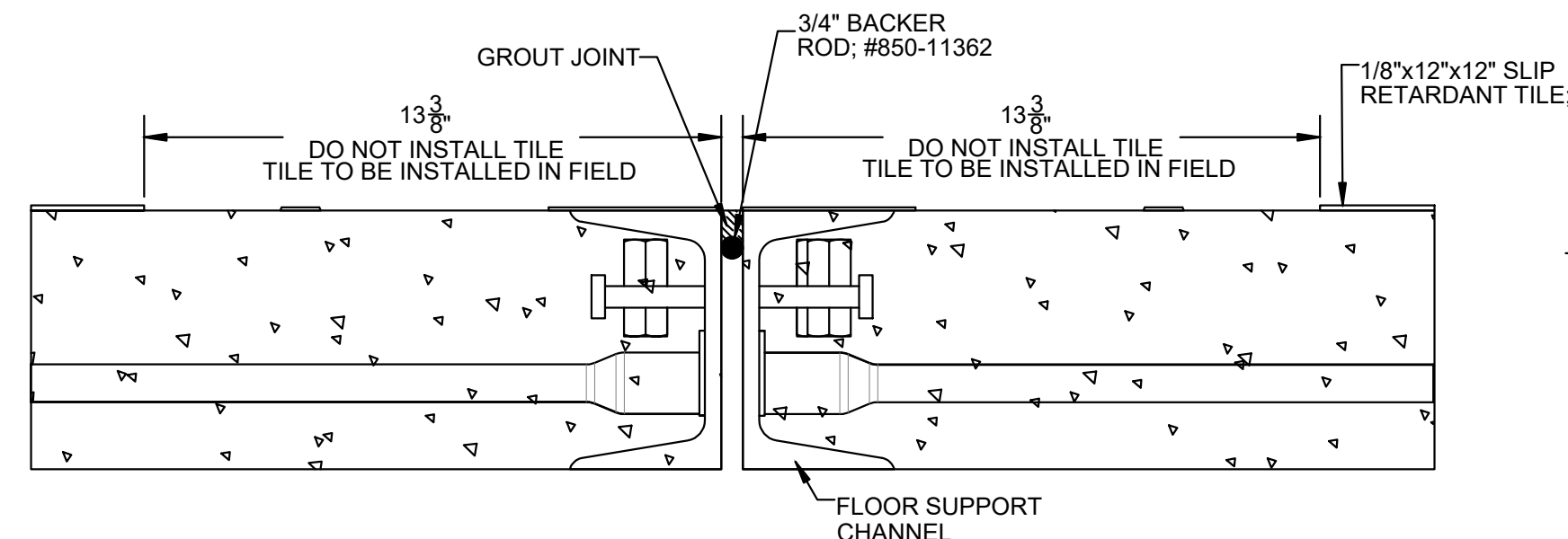
NOTE:

SEE GRADING PLAN FOR
PAD LOCATION AND
ELEVATION.

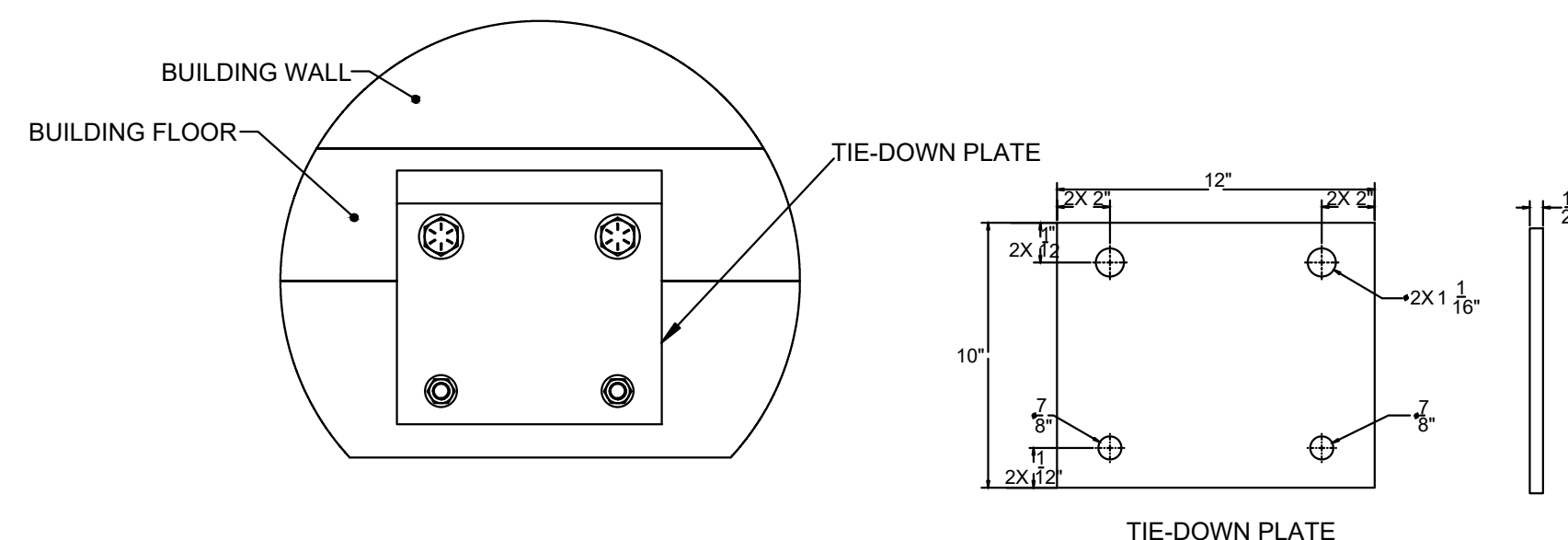
GENERATOR PAD SECTION



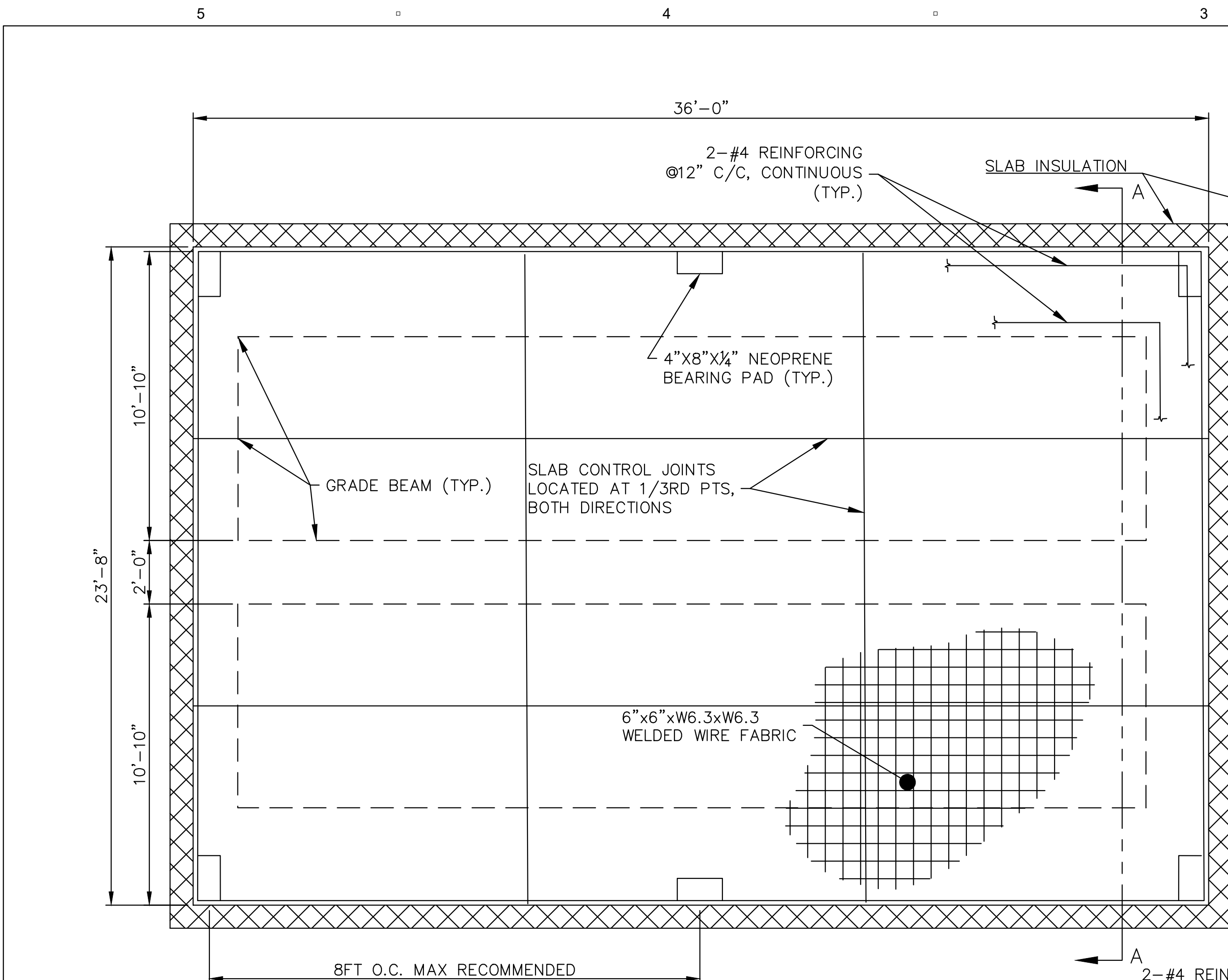
GENERATOR PAD PLAN



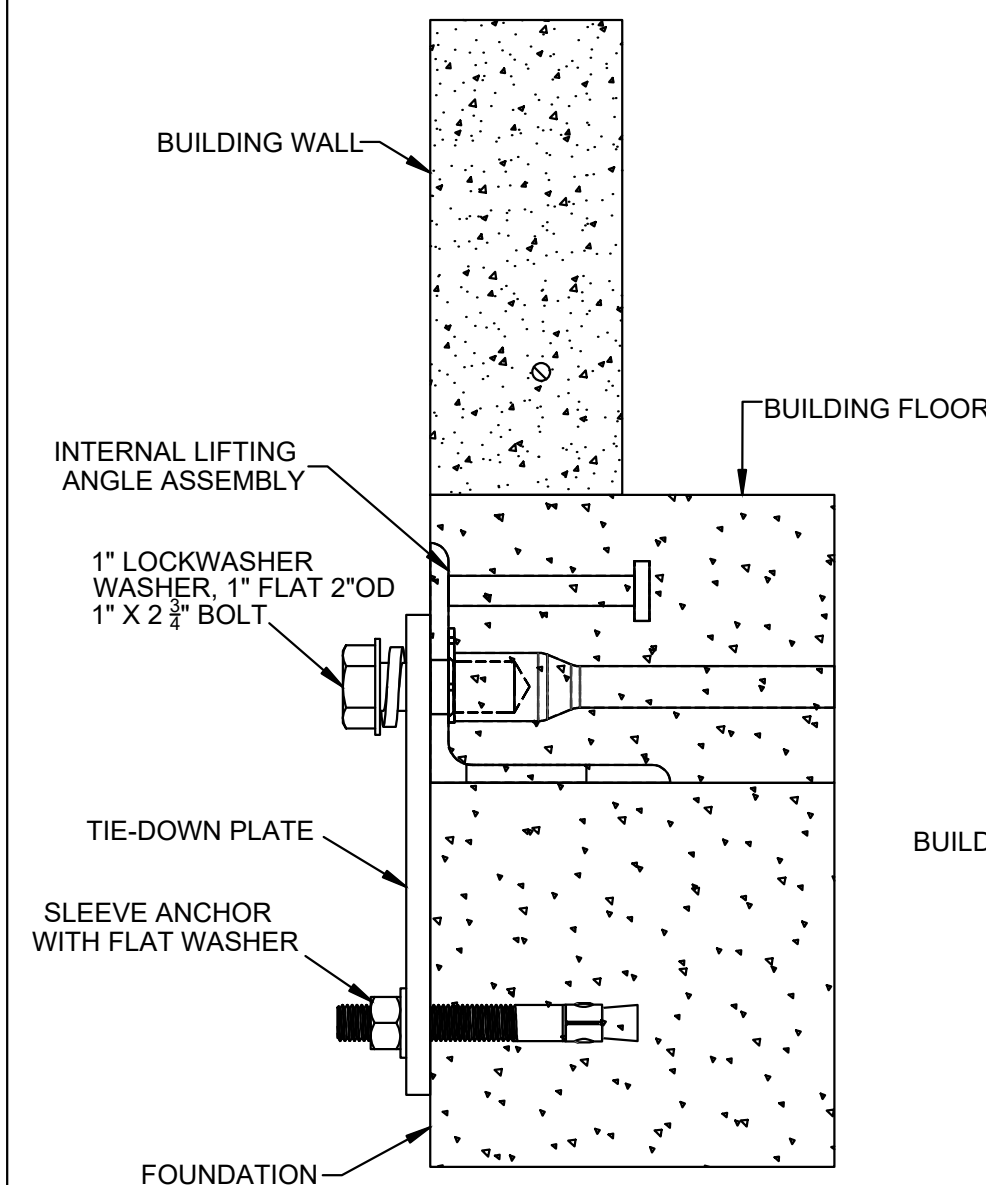
FLOOR CLOSE-UP DETAIL@MODULE LINE



TIE-DOWN PLATE



SLAB FOUNDATION



TYPICAL FLOOR TO FOUNDATION TIE-DOWN PLATE CONNECTION

ISSUE FOR BID

DATE OF ISSUE: 07/21/2025

GENERAL NOTES

- UNLESS OTHERWISE INDICATED, ALL MOUNTING ELEVATIONS ARE CENTERLINE ELEVATIONS.
2. CIRCUITING SHOWN ON THE PLANS IS BASED ON INFORMATION GIVEN TO THE ENGINEER AT TIME OF DESIGN AND A GENERAL FIELD SURVEY. CONTRACTOR SHALL FIELD VERIFY ACTUAL AVAILABLE CIRCUITS, PRIOR TO START OF CONSTRUCTION, AND ADJUST ACCORDINGLY.
3. CIRCUIT IDENTIFICATION SHALL BE AS FOLLOWS:
A-5 = 1-POLE BREAKERS AT CIRCUIT #5 OF PANEL "A".
P-1,3 = (1) 2-POLE BREAKER AT CIRCUITS #1 & #3 OF PANEL "P".
4. PROVIDE NEW CIRCUIT BREAKERS AS REQUIRED. ALL NEW CIRCUIT BREAKERS SHALL MATCH EXISTING EQUIPMENT FOR MANUFACTURER, TYPE AND A.I.C. RATING.
5. NO WIRING DEVICES OR OUTLET BOXES SHALL BE INSTALLED BACK-TO-BACK.
6. CONTRACTOR SHALL FURNISH, INSTALL, AND SIZE ALL SLEEVES, HOLES, CORES, PATCHING, SLOTS, ANCHORS, BRACKETS, SUPPORTS, JUNCTION BOXES, PULLBOXES, AND OTHER APPURTENANCES NECESSARY TO EXECUTE THE CONTRACT DOCUMENTS COMPLETE. SOME OF THESE ITEMS MAY BE SHOWN ON THE DRAWINGS FOR CLARITY OR DESIGN PREFERENCE. HOWEVER, NOT ALL OF THE ITEMS, NECESSARY FOR COMPLETE EXECUTION AND INSTALLATION, ARE SHOWN.
7. LABEL ALL JUNCTION BOXES WITH CIRCUIT NUMBER.
8. ALL EXPOSED CONDUIT SHALL BE RUN PARALLEL, OR AT RIGHT ANGLES, TO STRUCTURE.
9. THE CONTRACTOR SHALL VERIFY ALL EQUIPMENT BEING INSTALLED PRIOR TO INSTALLATION TO ASSURE THAT THE FEEDER, DISCONNECT, OVERCURRENT PROTECTION, ETC, MATCHES THE ACTUAL NAMEPLATE DATA AS SUPPLIED BY THE MANUFACTURER. REFER TO EQUIPMENT CUTSHEETS AND MANUFACTURER'S DATA FOR ROUGH-IN LOCATIONS OF ELECTRICAL CONNECTIONS AND INTERCONNECTIONS OF ALL EQUIPMENT AND PROVIDE/INSTALL AS REQUIRED.
10. WORK CALLED FOR BY THE SPECIFICATIONS OR THESE DRAWINGS IS REQUIRED THE SAME AS IF REQUIRED BY BOTH. WHERE A CONFLICT EXISTS BETWEEN THE SPECIFICATIONS AND DRAWINGS, THE MORE STRINGENT REQUIREMENTS OF THE TWO SHALL APPLY UNLESS SPECIFICALLY APPROVED IN WRITING BY THE ENGINEER.
11. FURNISH CABLING AND RACEWAYS FOR SYSTEM DEVICES AND INSTRUMENTATION ACCORDING TO OTHER TRADES AND VENDORS DRAWINGS AND SPECIFICATIONS.
12. ELECTRICAL CONTRACTOR SHALL VERIFY AND COORDINATE ALL DEVICE TYPES, LOCATIONS AND QUANTITIES WITH THE OWNER AND SYSTEM'S VENDOR AND PROVIDE ACCORDINGLY.
13. ALL WORK SHALL BE PERFORMED ON DE-ENERGIZED EQUIPMENT. ANY WORK ON LIVE EQUIPMENT SHALL BE REQUESTED 72 HOURS PRIOR TO START WITH LIVE WORK PERMIT.
14. UPON COMPLETION OF WORK, CORRECT ALL PANELBOARD CIRCUIT DIRECTORY CARDS TO REFLECT AS-BUILT CONDITIONS. CONTRACTOR SHALL PROPERLY COVER ALL UNUSED SPACES.

GENERAL WIRING NOTES

1. CIRCUIT HOMERUNS NOT OTHERWISE MARKED ON DRAWINGS SHALL BE CONSIDERED 2 #12, 1 #12G -3/4" C, MIN.
2. WIRE SIZING FOR ALL BRANCH CIRCUITS SHALL BE IN ACCORDANCE WITH N.E.C. TABLE 310-15(B)(16) WITH SUITABLE TERMINAL RATINGS AS REQUIRED BY ARTICLE 110.14, AS A MINIMUM.
3. WHERE CIRCUITS ARE IN EXCESS OF 50 FEET (120V), OR 150 FEET (277V); THE WIRE SIZE SHALL BE INCREASED TO ACCOMMODATE VOLTAGE DROP. THE CONTRACTOR SHALL ENSURE NEW CIRCUIT WIRES ARE SIZED TO LIMIT VOLTAGE DROP TO 2% ON FEEDERS AND 3% ON BRANCH CIRCUITS.
4. WHERE THE WIRE SIZE IS INCREASED DUE TO CIRCUIT LENGTH AS SHOWN ABOVE, THAT WIRE SIZE SHALL BE CARRIED THROUGHOUT THE CIRCUIT, AS A MINIMUM. GROUND WIRE SHALL BE SIZED ACCORDINGLY FOR THE NEW WIRE SIZE.
5. ALL CIRCUITS SHALL HAVE A DEDICATED NEUTRAL AND EQUIPMENT GROUND CONDUCTORS, AS REQUIRED, IN EACH AND EVERY CONDUIT OR RACEWAY; METALLIC OR NON-METALLIC, RIGID OR FLEXIBLE.
6. EQUIPMENT GROUND CONDUCTOR SHALL BE SIZED PER N.E.C. TABLE 250-122 OR AS SHOWN ON THE DRAWINGS WHICHEVER IS MORE STRINGENT.
7. WIRE SIZING SHALL BE AS INDICATED IN NOTES ABOVE, ONE-LINE DIAGRAMS OR AS SHOWN ON THE PLAN SHEETS, WHICHEVER IS MORE STRINGENT. THAT SAME WIRE SIZE SHALL BE CARRIED THROUGHOUT THE CIRCUIT, AS A MINIMUM.



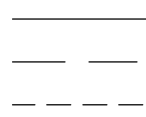
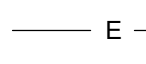
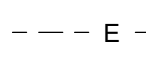





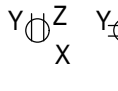










GENERAL EMERGENCY ACCESS BOX NOTES

1. CONTRACTOR SHALL VERIFY EMERGENCY ACCESS BOX (EAB) LOCATION AND FUNCTIONS WITH FIRE MARSHAL AND LOCAL UTILITY PRIOR TO ROUGH-IN AND PROVIDE ACCORDINGLY.
2. CONTRACTOR SHALL COORDINATE THE EAB AS SPECIFIED IN THESE PLAN SHEETS WITH THE FIRE MARSHAL AND LOCAL UTILITY, AND PROVIDE EAB AND ALL ACCESSORIES AS REQUIRED BY THE FIRE MARSHAL AND LOCAL UTILITY FOR AN APPROVED ACCESS SYSTEM.
3. SUBMIT EQUIPMENT SHOP DRAWINGS TO FIRE MARSHAL, LOCAL UTILITY, AND ENGINEER FOR APPROVAL PRIOR TO ROUGH-IN.
4. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS WITH THE FOLLOWING INFORMATION AS A MINIMUM:
 - a. ALL SUBMITTALS SHALL INDICATE COMPLIANCE WITH LATEST ADOPTED EDITIONS OF:
 - INTERNATIONAL FIRE CODE
 - NFPA - 72
 - NFPA - 13
 - NFPA - 101
 - NFPA - 70 (NATIONAL ELECTRICAL CODE)
 - ADA - AMERICANS WITH DISABILITIES ACT
 - ALL STATE AND LOCAL CODES AND ORDINANCES.
4. COORDINATE WITH SYSTEM VENDOR FOR ADDITIONAL REQUIREMENTS AND PROVIDE ALL LINE VOLTAGE NECESSARY FOR A COMPLETE AND OPERATIONAL SYSTEM.
5. ELECTRICAL CONTRACTOR SHALL PROVIDE JUNCTION BOXES, CONDUITS, AND CONDUCTORS AS REQUIRED FOR A COMPLETE GATE EMERGENCY ACCESS SYSTEM.

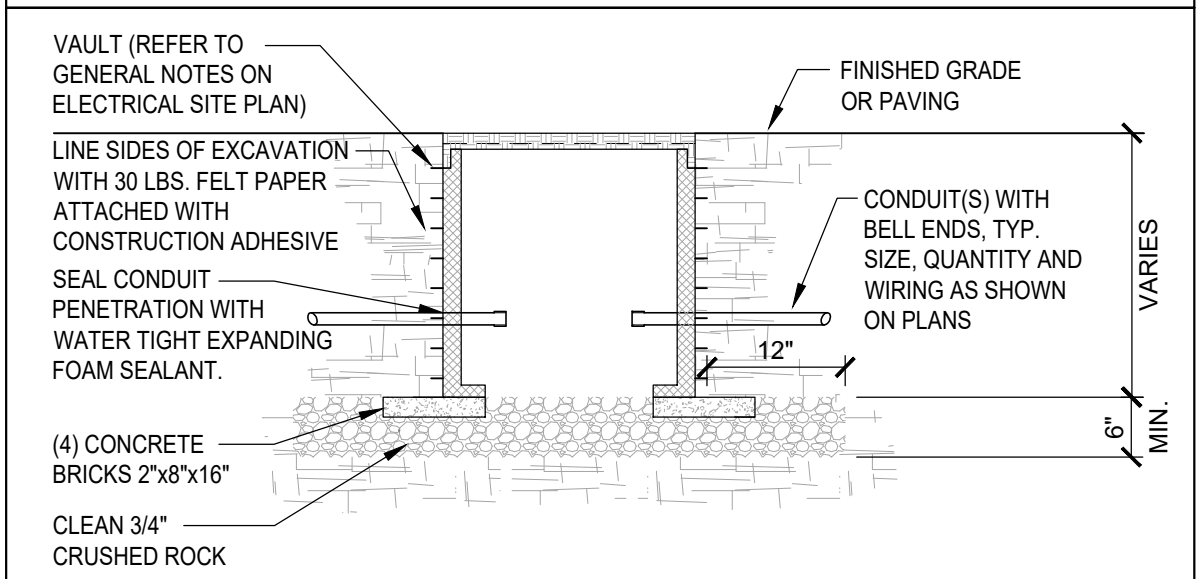
GENERAL UTILITY CO. COORDINATION NOTES

1. THE CONTRACTOR SHALL MEET ON-SITE WITH THE UTILITY CO. REPRESENTATIVE TO DETERMINE THE FOLLOWING; PRIOR TO BID AND ROUGH-IN:
 - a. VERIFY PRIMARY CONDUIT WORK REQUIRED AND RESPONSIBILITY; IF ANY.
 - b. VERIFY THE EXACT LOCATION OF THE GROUND OR OVERHEAD TRANSFORMERS.
 - c. VERIFY METERING METHOD AND REQUIREMENTS, IF DIFFERENT FROM SHOWN.
 - d. VERIFY REQUIRED SERVICE CONDUITS, ROUTING, AND TERMINATION LOCATION.
2. THE CONTRACTOR SHALL NOTIFY UTILITY CO. REPRESENTATIVE LISTED BELOW OF THE PRE-CONSTRUCTION MEETING SCHEDULE.
EVERGY
BOONE HESTON
785-508-2590
boone.heston@evergy.com
3. THE CONTRACTOR'S FAILURE TO COMPLY WITH THESE COORDINATION PROCEDURES WILL CONSTITUTE ABSORBING ALL COSTS ASSOCIATED WITH REPLACING ANY AND ALL WORK ALREADY IN PLACE TO MEET THE UTILITY CO.'S RULES AND REQUIREMENTS.

ELECTRICAL SYMBOL LEGEND (NOT ALL SYMBOLS USED ON PLANS)

	PANELBOARD, 120/240V, 1-PH. SURFACE MOUNTED
	CONDUIT HOME RUN, TEXT INDICATES DESTINATION; PANELBOARD "A", CIRCUIT #5. SEE GENERAL NOTES FOR ADDITIONAL INFORMATION.
	CONDUIT(S). CONCEALED IN WALLS OR ABOVE CEILINGS. EXPOSED ON WALLS OR CEILINGS, OR CONCEALED BELOW GRADE OR FLOORS; RESPECTIVELY. WITH APPROPRIATE CONDUCTOR QUANTITIES. SEE GENERAL NOTES.
	OVERHEAD LINE, LETTER DENOTES TYPE: E = ELECTRIC G = GROUNDING CONDUCTOR T = TELECOMMUNICATIONS OE = UTILITY O/H ELECTRIC
	UNDERGROUND DUCTBANK, COMPACTED BACKFILL. LETTER DENOTES TYPE: E = ELECTRIC G = GROUNDING CONDUCTOR LOC = LOCATOR TRACER WIRE T = TELECOMMUNICATIONS UE = UTILITY U/G ELECTRIC
	JUNCTION BOX, SQUARE OR ROUND
	ENTRY VAULT. HDPE STRUCTURAL FOAM, WITH OPEN FLOOR AND COMPOSITE SPLIT COVER. TYPE AND SIZE AS FOLLOWS: CEV = CUSTOMER (CHANNELL #BULKU366048) SEV = SITE (CHANNELL #BULKU366048) KEV = KNOCKOUT (CHANNELL #366048)
	EAB = EMERGENCY ACCESS BOX - REFER TO ASSOCIATED NOTES ON THIS SHEET FOR ADDITIONAL INFORMATION.
	TRANSFORMER, DRY-TYPE UON, SIZE AND CONFIGURATION AS INDICATED
	DISCONNECT SWITCH SIZE, FUSES, POLES, AND NEMA ENCLOSURE RATING AS NOTED. NEMA RATINGS ARE, UON: INDOOR-NEMA 1, OUTDOOR-NEMA 3R.
	DUPLEX OR QUAD RECEPTACLE, 20A, w/COVER PLATE, AT 18" AFF M.H. UON: X = TYPE, Y = NON-STANDARD M.H., Z = CIRCUIT NUMBER
	GROUND ROD 10'-0" LONG x 3/4" DIAMETER, COPPER-CLAD STEEL
	TEST WELL, w/GROUND ROD
	EXOTHERMIC WELD
	GROUNDING ELECTRODE CONDUCTORS, BELOW GRADE/IN-SLAB OR EXPOSED; RESPECTIVELY.
	GROUND BAR SEE POWER ONE-LINE DIAGRAM AND DETAILS FOR MORE INFORMATION.
	WALL SWITCH w/COVERPLATE, STANDARD M.H. 48" AFF: X = SWITCH TYPE, AS FOLLOWS: <blank> = SINGLE-POLE 3 = THREE-POLE (3-WAY) D = DIMMER P = w/PILOT LIGHT WP = WEATHERPROOF 2 = DOUBLE-POLE (2-WAY) 4 = FOUR-POLE (4-WAY) K = KEY-OPERATED T = TIMER SWITCH, DIGITAL XP = EXPLOSION-PROOF
	LIGHTING FIXTURE X = FIXTURE TYPE, SEE LIGHTING FIXTURE SCHEDULE.
	EMERGENCY LIGHT FIXTURE, w/INTEGRAL BATTERY PACK TRIANGLES DENOTES # OF FIXTURE HEADS
	EXIT SIGN, CEILING OR WALL MOUNTED. QUANTITY OF FACES, AND DIRECTIONAL ARROWS AS INDICATED ON PLANS.
	SITE LUMINAIRE, POLE MOUNTED. NUMBER OF HEADS AS SHOWN ON PLANS. ARROW INDICATES DIRECTION OF OPTICS, IF SHOWN.

VAULT BOX CONDUIT ENTRY DETAIL



ELECTRICAL ABBREVIATIONS (NOT ALL ABBREVIATIONS ARE USED ON PLANS)

1PH, 1Ø	SINGLE-PHASE	KWH	KILOWATT HOUR
1P	POLE (2P, 3P, 4P, 1P ETC.)	LED	LIGHT EMITTING DIODE
2/C	2 CONDUCTOR (1/C, 3/C, 4/C, ETC.)	LF	LINEAR FEET (FOOT)
2W	2-WIRE (3W, 4W, ETC.)	LP	LIGHT POLE
A	AMMETER, AMPERE	LRA	LOCKED ROTOR AMPS
AC	ALTERNATING CURRENT, ARMORED CABLE	LSIG	LONG, SHORT, INSTANTANEOUS, GROUND
A/C	AIR CONDITIONING UNIT	LTG	LIGHTING
ADDL	ADDITIONAL	LTNG	LIGHTNING
ADJ	ADJACENT, ADJOINING	L/V	LOW-VOLTAGE
A/E	ARCHITECT / ENGINEER		
AF	AMPERE FRAME, AMP FUSE	MAX	MAXIMUM
AFC	AVAILABLE FAULT CURRENT	MC	METAL-CLAD
AFCI	ARC FAULT CIRCUIT INTERRUPTER	MCA	MINIMUM CIRCUIT AMPS
AFB	ABOVE FINISHED FLOOR	MCB	MAIN CIRCUIT BREAKER
AFG	ABOVE FINISHED GRADE	MCCB	MOLDED CASE CIRCUIT BREAKER
AHJ	AUTHORITY HAVING JURISDICTION	MDP	MAIN DISTRIBUTION PANEL
AIC	AMPERE INTERRUPTING CAPACITY	MECH	MECHANICAL
AL	ALUMINUM	MFR	MANUFACTURER
ALT	ALTERNATE	MH	MOUNTING HEIGHT
AMP	AMPERE, AMPACITY	MIN	MINIMUM
APPROX	APPROXIMATELY	MISC	MISCELLANEOUS
ARCH	ARCHITECT, ARCHITECTURAL	MOCP	MAXIMUM OVERCURRENT PROTECTION
AT	AMPERE TRIP	MLO	MAIN LUGS ONLY
ATS	AUTOMATIC TRANSFER SWITCH	MSB	MAIN SWITCHBOARD
AUTO	AUTOMATIC	MTS	MANUAL TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE		
BAT	BATTERY	N/A	NOT APPLICABLE
BFG	BELOW FINISHED GRADE	N.C.	NORMALLY CLOSED
BKR	BREAKER	NEC	NATIONAL ELECTRICAL CODE
BLDG	BUILDING	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
		N, NEUT	NEUTRAL
		NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
C/B	CIRCUIT BREAKER	NIC	NOT IN CONTRACT
C	CONDUIT	NL	NIGHT LIGHT
cd	CANDELA	N.O.	NORMALLY OPEN
CKT	CIRCUIT	NTS	NOT TO SCALE
CLG	CEILING		
COAX	COAXIAL CABLE	O/C	ON-CENTER
COMM	COMMUNICATION	O/H	OVERHEAD
CONT	CONTINUE, CONTINUATION	O/L	OVERLOAD
CONTR	CONTRACTOR	OSP	OUTSIDE PLANT
CPT	CONTROL POWER TRANSFORMER	OIL	OVERLOAD
CRI	COLOR RENDERING INDEX		
CT	CURRENT TRANSFORMER	P	POLE
CU	COPPER	PB	PULL BOX, PUSHBUTTON
		PF	POWER FACTOR
db	DECIBEL	PH, Ø	PHASE
DC	DIRECT CURRENT	PNL	PANEL
deg C	DEGREES CELSIUS	PP	POWER POLE
deg F	DEGREES FAHRENHEIT	PR	PAIR
DEMO	DEMOLITION	PRI	PRIMARY
DIA	DIAMETER	PT	POTENTIAL TRANSFORMER
DIAG	DIAGRAM	PVC	POLYVINYL CHLORIDE (PLASTIC)
DISC	DISCONNECT	PWR	POWER
DIST	DISTRIBUTION		
DN	DOWN	QTY	QUANTITY
DPDT	DOUBLE POLE, DOUBLE THROW		
DPST	DOUBLE POLE, SINGLE THROW	RCP	REFLECTED CEILING PLAN
D/S	DISCONNECT SWITCH	RCPT	RECEPTACLE
DWG	DRAWING	RMS	ROOT MEAN SQUARE
EC	ELECTRICAL CONTRACTOR	SA	SURGE ARRESTER
EG	EQUIPMENT GROUND	SCC	SHORT CIRCUIT CAPACITY
EL	ELEVATION	SCHD	SCHEDULE
ELEC	ELECTRIC, ELECTRICAL	SEC	SECONDARY
EM	EMERGENCY	SF	SQUARE FOOT (FEET)
EMI	ELECTROMAGNETIC INTERFERENCE	SP	SPARE
EMT	ELECTRICAL METALLIC TUBING	SPD	SURGE PROTECTIVE DEVICE
EPO	EMERGENCY POWER OFF	SPEC	SPECIFICATION
EX, (EX)	EXISTING	SPST	SINGLE POLE, SINGLE THROW
		SS	STAINLESS STEEL
F/A	FIRE ALARM	SW	SWITCH
fc	FOOTCANDLE	SWBD	SWITCHBOARD
FLA	FULL LOAD AMPS	SYM	SYMMETRICAL
FLEX	FLEXIBLE METALLIC CONDUIT	SYS	SYSTEM
ft	FEET OR FOOT		
G/GND	GROUND	T/C	TIME CLOCK
GA	GAUGE	TL	TWIST LOCK
GC	GENERAL CONTRACTOR	TR	TAMPER RESISTANT
GEN	GENERATOR, GENERAL	TTB	TELEPHONE TERMINAL BOARD
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	TYP	TYPICAL
GRS	GALVANIZED RIGID STEEL		
GTB	GROUND TERMINAL BOX	U/G	UNDERGROUND
		UON	UNLESS OTHERWISE NOTED
HGT	HEIGHT	UPS	UNINTERRUPTIBLE POWER SUPPLY
HH	HANDHOLE	UTIL	UTILITY
HOA	HAND-OFF-AUTOMATIC		
HP	HORSEPOWER	V	VOLT, VOLTAGE
H/V	HIGH-VOLTAGE	VA	VOLT AMPERE
HVAC	HEATING, VENTILATING & AIR CONDITIONING	VAR	VOLT AMPERE REACTIVE
HZ	HERTZ		
		W	WATT
ICCB	INSULATED CASE CIRCUIT BREAKER	w/	WITH
IG	ISOLATED GROUND	WG	WIRE GUARD
IMC	INTERMEDIATE METAL CONDUIT	WH	WATER HEATER
I/O	INPUT / OUTPUT	w/o	WITHOUT
ISP	INSIDE PLANT	WP	WEATHERPROOF
J-BOX	JUNCTION BOX	XFER	TRANSFER
		XFMR	TRANSFORMER
KV	KILOVOLT	XP	EXPLOSION-PROOF
kVA	KILOVOLT AMPERE		
KVH	KILOVOLT AMPERE PER HOUR		
KVAR	KILOVOLT AMPERE REACTIVE		
KW	KILOWATT		



PROJECT

MMI - ILA SHELTER
MCI1.12
LANSING, KS

PARCEL ID: 052-107-25-0-00-00-175
811 4-H RD
LANSING, KS 66043

CLIENT

Middle Mile Infrastructure

CONSULTANT

AECOM Technical Services, Inc.
10 Patewood Drive, Suite 500
Greenville, SC 29615
License Number: E-511
1-864-234-3069 tel
www.aecom.com

REGISTRATION



ISSUE/REVISION

I/R	DATE	DESCRIPTION

PROJECT NUMBER

60645418

SHEET TITLE

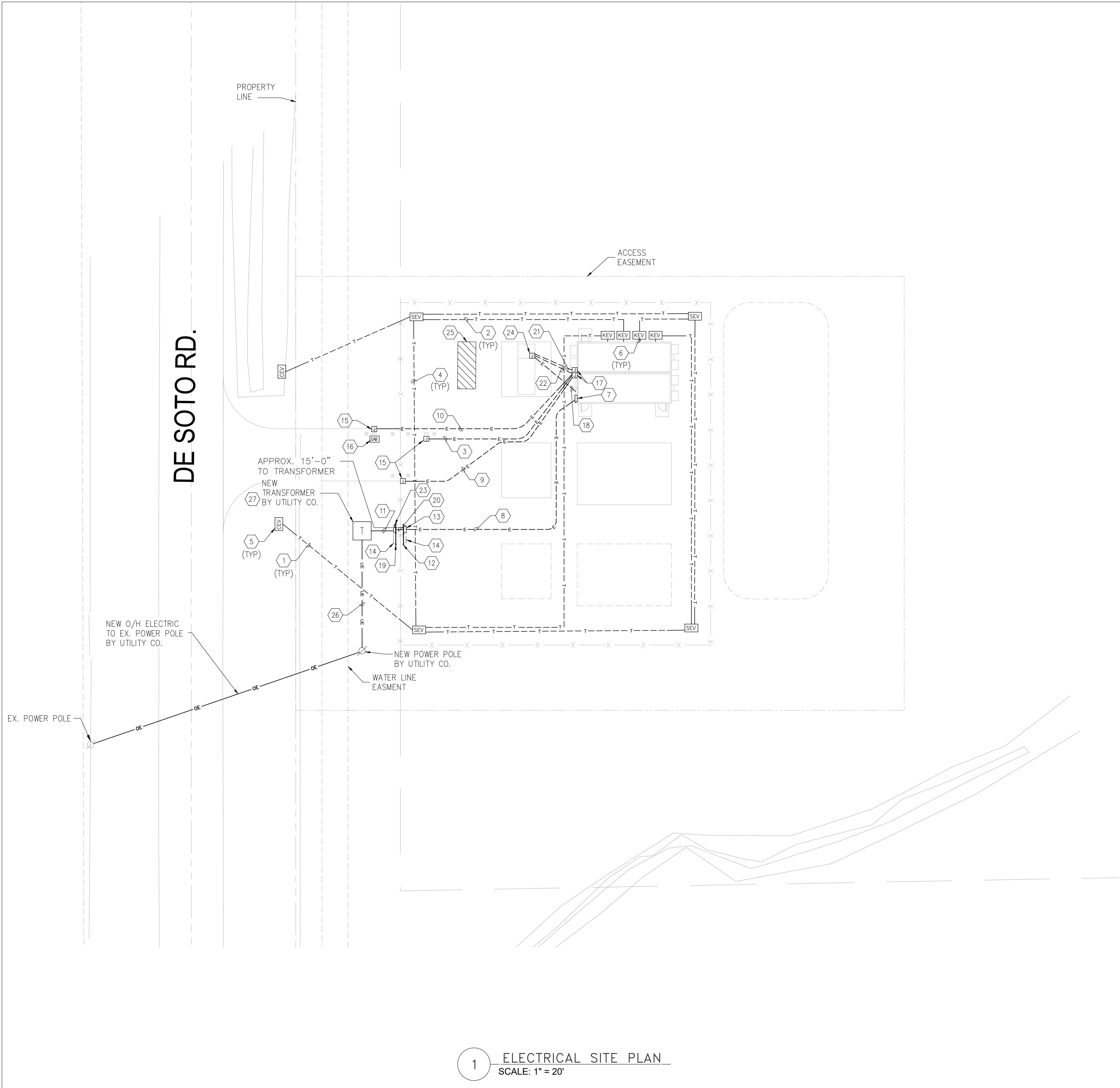
ELECTRICAL GENERAL NOTES, SYMBOL LEGENDS, AND ABBREVIATIONS

SHEET NUMBER

ANSI D 22" x 34" Approved: _____ Checked: _____ Designer: _____ Project Management Initials: _____

1204-CAD03-SHEETS\ARTEMIS\H-SHT-E-SITE.DWG

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GENERAL NOTES

A. REFER TO ELECTRICAL GENERAL NOTES, SYMBOLS LEGENDS, AND ABBREVIATIONS ON SHEET 18.

B. REFER TO ELECTRICAL SPECIFICATIONS ON SHEET 22.

C. REFER TO ELECTRICAL ONE-LINE DIAGRAM ON SHEET 23 FOR ADDITIONAL INFORMATION.

D. REFER TO HUT DESIGN PACKAGE FOR LOW-VOLTAGE CABLING FEEDER SCHEDULES AND ADDITIONAL INFORMATION.

E. THE GC SHALL PROVIDE ALL BACKFILL OF ELECTRICAL AND FIBER TRENCHES. ALL BACKFILL SHALL BE FREE OF PEAT, MARL, HIGHLY PLASTIC CLAY, OR OTHER UNSUITABLE MATERIALS SUCH AS TRASH, DEBRIS, BRUSH, OR ICE.

F. ALL UNDERGROUND ELECTRICAL CONDUITS SHALL HAVE #6 SOLID, HMWPE INSULATION 0.045MIL ORANGE TRACER WIRE INSTALLED EXTERIOR TO THE CONDUIT. THIS TRACER WIRE IS USED FOR CONDUIT LOCATING.

G. THE GC IS RESPONSIBLE FOR FURNISHING AND INSTALLING ALL SITE ENTRY VAULTS (SEV), KNOCK-OUT ENTRY VAULTS (KEV), AND INSTALLING ALL FIBER CONDUIT BETWEEN VAULTS. CHANNELL # BULKU966048 (SEV), CHANNELL # BULKU966048 (KEV); NO EXCEPTIONS.

H. THE CUSTOMER ENTRY VAULTS (CEV), FIBER CONDUIT, AND CONNECTIONS BETWEEN AND TO THE OSP LONG HAUL FIBER CONDUITS SHALL BE BY OTHERS.

I. ALL FIBER VAULTS SHALL BE INSTALLED FLUSH WITH FINISHED GRADE AND 6" DEPTH OF COMPACTED AGGREGATE BASE AT THE BOTTOM OF THE VAULT. REFER TO VAULT BOX CONDUIT ENTRY DETAIL ON SHEET 18 FOR ADDITIONAL INFORMATION.

J. VAULTS LOCATED OUTSIDE THE PERIMETER FENCE SHALL HAVE PENTA-BOLTS FOR LID LOCKING OPTION. VAULTS WITHIN THE PERIMETER FENCE SHALL NOT REQUIRE ANY SECURITY LOCKING OPTIONS.

K. ALL FIBER CONDUITS SHALL BE INSTALLED WITH 1/2" PULLWIRE AND SHALL BE CAPPED AFTER ENTERING EVERY VAULT.

L. THE GC SHALL PROVIDE A MINIMUM OF 4" DEPTH OF BEDDING SAND ABOVE AND BELOW ALL UNDERGROUND FIBER CONDUITS.

KEYNOTES

1. FURNISH AND INSTALL (2) 4" SCHD 80 PVC EMPTY CONDUITS WITH PULLWIRE AT 24" BFG BETWEEN CEV AND SEV, TYPICAL. COORDINATE EXACT LOCATION OF CEV IN FIELD PRIOR TO ROUGH-IN AND INSTALLATION.

2. FURNISH AND INSTALL (2) 4" SCHD 80 PVC EMPTY CONDUITS WITH PULLWIRE AT 24" BFG BETWEEN SEV AND KEV, TYPICAL.

3. FURNISH AND INSTALL (1) 1" SCHD 80 PVC EMPTY CONDUIT WITH PULLWIRE BETWEEN J-BOX AND GATE MAG-LOCK. THE LAST 1'-0" OF CONDUIT TO MAG-LOCK SHALL BE LFMC TYPE.

4. FURNISH AND INSTALL (2) 4" SCHD 80 PVC EMPTY CONDUITS WITH PULLWIRE AT 24" BFG BETWEEN SEV AND SEV, TYPICAL.

5. CEV AT FIBER LONG HAUL LINES BY OTHERS, REFER TO GENERAL NOTES ON THIS SHEET.

6. FURNISH AND INSTALL (2) 4" SCHD 80 PVC EMPTY CONDUITS WITH PULLWIRE AT 24" BFG BETWEEN KEV AND PRE-INSTALLED OSP CONDUIT ENCLOSURE MOUNTED ON HUT SHELTER. SUPPORT VERTICAL CONDUIT RUN WITH UNISTRUT SHIPPED WITH HUT SHELTER. REFER TO HUT SHELTER DRAWINGS FOR ADDITIONAL INFORMATION.

7. SERVICE RATED SAFETY DISCONNECT SWITCH, HEAVY-DUTY, 600A, 3P, 600VAC, FUSIBLE, WITH CLASS RK5 FUSES AND CLASS 'R' REJECTION CLIPS, IN NEMA 3R ENCLOSURE. REFER TO ELECTRICAL SPECIFICATIONS ON SHEET 22 FOR ADDITIONAL INFORMATION.

8. FURNISH AND INSTALL (2) 4" SCHD 80 PVC CONDUITS AT 36" BFG FOR ELECTRICAL SERVICE CONDUCTORS TO HUT SHELTER DISCONNECT SWITCH. REFER TO ELECTRICAL ONE-LINE DIAGRAM ON SHEET 23 FOR CONDUCTOR SIZES.

9. FURNISH AND INSTALL (4) 1" SCHD 80 PVC EMPTY CONDUITS WITH PULLWIRE AT 36" BFG BETWEEN SHELTER TERMINAL BLOCK TB-05 AND GATE EXIT KEYPAD. (1) CONDUIT FOR GATE KEYPAD POWER AND (3) CONDUITS FOR GATE KEYPAD LOW-VOLTAGE CONTROLS CABLING.

10. FURNISH AND INSTALL (1) 1" SCHD 80 PVC EMPTY CONDUIT WITH PULLWIRE AT 36" BFG BETWEEN SHELTER TERMINAL BLOCK TB-05 AND GATE ENTRY KEYPAD FOR POWER AND LOW-VOLTAGE CONTROLS CABLING.

11. FURNISH AND INSTALL (2) 4" SCHD 80 PVC CONDUITS WITH PULLWIRE AT 36" BFG FOR ELECTRICAL UTILITY CONDUCTORS. STUB OUT AT TRANSFORMER SECONDARY WINDOW, CAP AND MARK FOR FUTURE IDENTIFICATION. COORDINATE EXACT TERMINATION LOCATION AND REQUIREMENTS WITH UTILITY CO. CONTACT PRIOR TO ROUGH-IN AND PROVIDE ACCORDINGLY.

12. FURNISH AND INSTALL 3-POST ELECTRICAL H-FRAME FOR RACK-MOUNTED SERVICE DISCONNECT SWITCH. H-FRAME SHALL BE GALVANIZED STEEL POSTS WITH U-CHANNEL SUPPORTS.

13. 600A, 480/277V, 3PH ELECTRIC UTILITY SERVICE. RATED HEAVY-DUTY FUSIBLE DISCONNECT SWITCH WITH CLASS RK5 FUSES AND CLASS 'R' REJECTION CLIPS, IN NEMA 3R ENCLOSURE. GC IS RESPONSIBLE FOR COORDINATING MOUNTING STRUCTURE REQUIREMENTS WITH THE LOCAL UTILITY AND PROVIDE ACCORDINGLY.

14. ALLOTTED SPACE FOR FUTURE ELECTRIC UTILITY SERVICE METER OR DISCONNECT SWITCH FOR FUTURE HUT SHELTER.

15. FURNISH AND INSTALL (2) LANDSCAPE GRADE J-BOXES, FLUSH WITH GRADE, AT GATE MAG-LOCK AND KEYPAD PEDESTALS FOR INTER-CONNECTION OF CONDUITS AND CONDUCTORS. (1) J-BOX FOR POWER. (1) J-BOX FOR LOW-VOLTAGE CONTROLS. SIZE J-BOXES AS REQUIRED.

16. EMERGENCY ACCESS BOX (EAB) WITH GATE CODE FOR EMERGENCY CONTROL OF ENTRY GATE BY THE FIRE DEPARTMENT. GC IS RESPONSIBLE FOR REGISTERING THE EAB, AND COORDINATING ALL REQUIREMENTS FOR EAB, WITH THE FIRE MARSHAL AND PROVIDE ACCORDINGLY. REFER TO GENERAL EMERGENCY ACCESS BOX NOTES ON SHEET 18 FOR ADDITIONAL REQUIREMENTS AND INFORMATION.

17. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING LOOSE J-BOXES SHIPPED WITH HUT SHELTER FOR CONDUIT TERMINATIONS: (1) 6x6x4 J-BOX FOR POWER, AND (1) 10x10x6 J-BOX FOR LOW-VOLTAGE CONDUITS. COORDINATE EXACT MH FOR SURFACE MOUNTED J-BOXES PRIOR TO ROUGH-IN. TERMINATE GATE CONDUITS ONTO RESPECTIVE J-BOXES. CONDUITS SHALL BE INSTALLED WITH WEATHERPROOF FITTINGS. WALL PENETRATIONS SHALL BE SEALED WITH DUCT SEAL. SPRAY FOAM IS NOT PERMITTED FOR CONDUIT SEALING.

18. FURNISH AND INSTALL (2) 4" SCHD 80 PVC CONDUITS AT 36" BFG FOR ELECTRICAL SERVICE CONDUCTORS TO HUT SHELTER GENERATOR DOCKING STATION. REFER TO ELECTRICAL ONE-LINE DIAGRAM ON SHEET 23 FOR CONDUCTOR SIZES.

19. FURNISH AND INSTALL 3-POST ELECTRICAL H-FRAME FOR RACK-MOUNTED ELECTRIC UTILITY METER / CT CABINET. H-FRAME SHALL BE GALVANIZED STEEL POSTS WITH U-CHANNEL SUPPORTS.

20. FURNISH AND INSTALL (1) 1" SCHD 80 PVC EMPTY CONDUIT WITH PULLWIRE AT 36" BFG BETWEEN UTILITY METER / CT CABINET AND SERVICE DISCONNECT. COORDINATE WITH UTILITY CO. FOR TERMINATIONS.

21. FURNISH AND INSTALL (1) 1" SCHD 80 PVC CONDUITS AT 36" BFG FOR GENERATOR AUX LOAD CONDUCTORS TO HUT SHELTER 120V PANELBOARD. REFER TO ELECTRICAL ONE-LINE DIAGRAM ON SHEET 23 FOR CONDUCTOR SIZES.

22. FURNISH AND INSTALL (6) 1" SCHD 80 PVC CONDUITS AT 36" BFG FOR ELECTRICAL CONDUCTORS FROM HUT SHELTER TERMINAL BLOCK TB-05.

23. 600A, 480/277V, 3PH ELECTRIC UTILITY METER / CT CABINET. PROVIDE METER ENCLOSURE / CT CABINET AND MOUNTING STRUCTURE REQUIREMENTS IN ACCORDANCE WITH UTILITY CO. REQUIREMENTS. ELECTRIC METER AND CTs FURNISHED BY UTILITY CO. AND INSTALLED BY CONTRACTOR.

24. GENERATOR POWER / LOW-VOLTAGE J-BOX. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION OF GENERATOR AND TERMINATION OF ALL POWER AND CONTROL CONDUITS AND CONDUCTORS.

25. ALLOTTED SPACE FOR FUTURE TRAILER MOUNTED PORTABLE GENERATOR.

26. FURNISH AND INSTALL (1) 4" SCHD 80 PVC CONDUIT AT 36" BELOW GRADE FOR UTILITY SERVICE CONDUCTORS. CONTRACTOR SHALL COORDINATE ROUTING WITH UTILITY CO. AND ALL EXISTING UNDERGROUND UTILITIES.

27. PAD-MOUNTED TRANSFORMER WILL BE INSTALLED BY UTILITY CO. COORDINATE FINAL PLACEMENT OF TRANSFORMER IN FIELD WITH UTILITY CO. CONTRACTOR SHALL PROVIDE CONCRETE PAD PER UTILITY CO. REQUIREMENTS.

ISSUE FOR BID

DATE OF ISSUE: 07/21/2025

0 20' 40'

GRAPHIC SCALE: 1" = 20'

AECOM

PROJECT

MMI - ILA SHELTER
MCI1.12
LANSING, KS

PARCEL ID: 052-107-25-0-00-00-175
811 4-H RD
LANSING, KS 66043

CLIENT

Middle Mile Infrastructure

CONSULTANT

AECOM Technical Services , Inc.
10 Patewood Drive, Suite 500
Greenville, SC 29615
License Number: E-511
1-864-234-3069 tel
www.aecom.com

REGISTRATION

EUGENE D. MCMANUS
10815
KANSAS
PROFESSIONAL ENGINEER
07/21/2025

ISSUE/REVISION

I/R	DATE	DESCRIPTION

PROJECT NUMBER

60645418

SHEET TITLE

ELECTRICAL SITE PLAN

SHEET NUMBER

19

ANSI D 22" x 34" Approved: _____ Checked: _____ Designer: _____ Project Management Initials: _____

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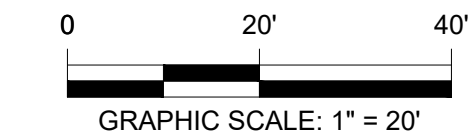
PROPERTY LINE

CEV

WATER LINE EASEMENT

ACCESS EASEMENT

1 ELECTRICAL SITE GROUNDING PLAN
SCALE: 1" = 20'



NAD 83 (2011)

MS GRID NORTH

GENERAL NOTES

- A. REFER TO ELECTRICAL GENERAL NOTES, SYMBOLS LEGENDS, AND ABBREVIATIONS ON SHEET 18.
B. REFER TO ELECTRICAL SPECIFICATIONS ON SHEET 22.
C. REFER TO ELECTRICAL ONE-LINE DIAGRAM ON SHEET 23 FOR ADDITIONAL INFORMATION.
D. REFER TO HUT DESIGN PACKAGE FOR ADDITIONAL GROUNDING DETAILS.
E. THE GC SHALL PROVIDE ALL BACKFILL OF ELECTRICAL AND FIBER TRENCHES. ALL BACKFILL SHALL BE FREE OF PEAT, MARL, HIGHLY PLASTIC CLAY, OR OTHER UNSUITABLE MATERIALS SUCH AS TRASH, DEBRIS, BRUSH, OR ICE.
F. ALL PRODUCTS ASSOCIATED WITH THE GROUNDING SYSTEM SHALL BE UL LISTED AND LABELED.
G. THE GC IS RESPONSIBLE FOR INSTALLING ALL SITE GROUNDING AS SHOWN, UON.
H. THE GC SHALL INSTALL ALL GROUNDING CONDUCTORS AT A MINIMUM OF 36" DEPTH BFG.
I. METAL SURFACES TO BE JOINED SHALL BE PREPARED BY THE REMOVAL OF ALL NON-CONDUCTIVE MATERIAL PER NEC 250-12. ALL COPPER BUS BARS SHALL BE CLEANED PRIOR TO MAKING CONNECTIONS TO REMOVE SURFACE OXIDATION.
J. ALL UNDERGROUND GROUNDING CONNECTIONS SHALL BE MADE BY IRREVERSIBLE MEANS (EXOTHERMIC WELDED) CONNECTIONS, UON.
K. ALL EXTERIOR GROUNDING CONNECTIONS SHALL HAVE CORROSION INHIBITING COMPOUND APPLIED AFTER CONNECTIONS ARE MADE, SANCHEM INC. "NO-OX-ID" OR OWNER PRE-APPROVED INDUSTRY STANDARD EQUAL.
L. ALL GROUND RING "C" TAP AND "H" TAP CONNECTIONS SHALL HAVE TAP COVERS INSTALLED.

KEYNOTES #

1. #10 STRANDED TINNED COPPER GROUND RING OR BONDING CONDUCTOR.
2. COPPER GROUND ROD, 10'-0" L x 3/4" DIA., SPACED 10'-0" MIN. ALONG HUT SHELTER GROUND RING.
3. FOUNDATION REBAR TO BE GROUNDING WITH SOLID COPPER WIRE, #4 MIN. ONE LOCATION MIN.
4. THE HUT SHELTER HAS FOUR (4) EXTERIOR STAINLESS STEEL GROUND PADS THAT MUST BE USED FOR GROUNDING THE HUT SHELTER, USING TWO-HOLE LUG CONNECTORS.
5. BOND THE HUT SHELTER'S INTERIOR MASTER GROUND BAR (MGB) TO THE HUT SHELTER GROUND RING. FIELD VERIFY EXACT MGB LOCATION PRIOR TO ROUGH-IN AND CONNECTIONS. REFER TO HUT SHELTER DESIGN PACKAGE FOR ADDITIONAL DETAIL.
6. BOND THE GENERATOR TO THE HUT SHELTER GROUND RING.
7. BOND THE UTILITY AND METERING EQUIPMENT H-FRAMES TO THE HUT SHELTER GROUND RING.
8. BOND ALL CORNER FENCE POSTS AND GATE ENTRANCE POSTS TO THE HUT SHELTER GROUND RING.
9. ELECTRICAL SERVICE GROUNDING ELECTRODE CONDUCTOR. REFER TO ONE LINE DIAGRAM FOR ADDITIONAL INFORMATION.
10. HUT BUILDING GROUNDING ELECTRODE CONDUCTOR. REFER TO ONE LINE DIAGRAM FOR ADDITIONAL INFORMATION.
11. FUTURE HUT SHELTER GROUND RING BONDING CONDUCTOR. LEAVE 50'-0" SLACK BONDING CONDUCTOR COILED AND BURIED 36" BFG FOR FUTURE BONDING CONNECTIONS. MARK FOR FUTURE IDENTIFICATION BY OTHERS.
12. BOND ALL HVAC UNITS AND VANDAL CAGES TO HUT SHELTER GROUND RING.
13. PROVIDE TRANSFORMER GROUNDING IN ACCORDANCE WITH UTILITY CO. REQUIREMENTS. COORDINATE WITH UTILITY FOR DELINEATION OF RESPONSIBILITIES.

AECOM

PROJECT

MMI - ILA SHELTER
MCI1.12
LANSING, KS

PARCEL ID: 052-107-25-0-00-00-175
811 4-H RD
LANSING, KS 66043

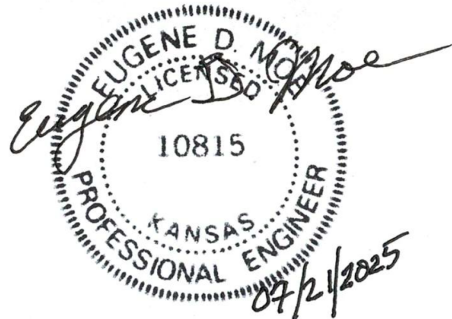
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CONSULTANT

AECOM Technical Services , Inc.
10 Patewood Drive, Suite 500
Greenville, SC 29615
License Number: E-511
1-864-234-3069 tel
www.aecom.com

REGISTRATION



ISSUE/REVISION

I/R	DATE	DESCRIPTION

PROJECT NUMBER

60645418

SHEET TITLE

ELECTRICAL SITE GROUNDING
PLAN

SHEET NUMBER

20

ISSUE FOR BID
DATE OF ISSUE: 07/21/2025

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14. MANDATORY SHOP DRAWINGS

14.1. SUBMIT A MINIMUM OF FIVE (5) COPIES OF ALL REQUIRED ELECTRICAL SHOP DRAWINGS.

14.2. SHOP DRAWINGS SHALL BE SUBMITTED FOR:

14.2.A. DISCONNECT SWITCHES

14.2.B. ALL WIRING DEVICES

14.2.C. GROUNDING EQUIPMENT

END OF SECTION – 260499

SECTION 260500 – BASIC MATERIALS AND METHODS

1. CONDUIT
- 1.1. ALL WIRE SHALL BE RUN IN ACCORDANCE WITH THE APPLICABLE CODES IN CORROSION RESISTANT, RIGID, THREADED, METAL CONDUIT OR ELECTRICAL METALLIC TUBING (EMT), UNLESS OTHERWISE SPECIFICALLY STATED HEREIN.
- 1.1.A. CONDUIT BELOW SLAB OR EXPOSED TO WEATHER SHALL BE RIGID, THREADED, GALVANIZED, HEAVY WALL TYPE.
- 1.1.B. CARLON PVC OR APPROVED EQUAL, TYPE 80 HEAVY WALL CONDUIT WITH GROUND WIRE SHALL BE USED UNDERGROUND. PVC, TYPE 80 MAY BE USED BELOW FLOOR SLAB OR PAVEMENT IN LIEU OF RIGID, THREADED, GALVANIZED CONDUIT. PVC SCHEDULE 80 CONDUIT SHALL NOT BE RUN IN OR ABOVE FIRST FLOOR SLAB. PVC CONDUIT SHALL TERMINATE BELOW FLOOR SLAB WITH RIGID, THREADED METAL CONDUIT ADAPTER. CONDUIT ABOVE SLAB SHALL BE METAL.
- 1.1.C. A GROUND CONDUCTOR SHALL BE SUPPLIED IN ALL CONDUITS AND RACEWAYS. THE GROUND CONDUCTOR SHALL BE COPPER, AND SIZED PER THE NEC OR AS SHOWN ON DRAWING, WHICHEVER IS MORE STRINGENT.
- 1.2. CONDUIT AND EMT SHALL BE DELIVERED TO THE BUILDING IN 10-FOOT LENGTHS AND EACH LENGTH SHALL HAVE THE U.L. LABEL.
- 1.3. EMT CONNECTORS AND COUPLERS SHALL BE RAIN TIGHT TYPE MADE OF DIE CAST AS MANUFACTURED BY THOMAS & BETTS, STEEL CITY, OR APPLETON. BENDS AND OFFSETS SHALL BE MADE WITH A HICKEY OR POWER BENDER WITHOUT KINKING OR DESTROYING THE SMOOTH BORE OF THE CONDUIT. PARALLELED CONDUITS SHALL RUN STRAIGHT AND TRUE WITH OFFSETS UNIFORM AND SYMMETRICAL. CONDUIT TERMINALS AT BOXES AND CABINETS SHALL BE RIGIDLY SECURED WITH LOCKNUTS AND BUSHINGS AS REQUIRED BY THE NATIONAL ELECTRICAL CODE AND LOCAL ELECTRICAL CODE. INSULATED BUSHINGS SHALL BE USED ON ALL CONDUIT 1-1/4" TRADE SIZE AND LARGER.
- 1.4. CONDUIT SHALL BE SECURELY FASTENED IN PLACE AT NO MORE THAN 8-FOOT CENTERS, AND HANGERS,

- 1.5. HORIZONTAL AND VERTICAL CONDUIT RUNS SHALL BE SUPPORTED BY ONE-HOLE MALLEABLE STRAPS OR OTHER APPROVED METAL DEVICE WITH SUITABLE BOLTS, EXPANSION SHIELD OR BEAM CLAMP FOR MOUNTING TO BUILDING STRUCTURE OR SPECIAL BRACKETS. CONDUIT SHALL BE SUPPORTED FROM STRUCTURAL STEEL OR JOIST AND INDEPENDENT OF OTHER PIPING. DO NOT SUPPORT CONDUIT FROM METAL ROOF DECK OR ANY OTHER SUPPORT DEVICE OF ANOTHER TRADE.
- 1.6. ARMORED CABLE (BX) OR NONMETALLIC SHEATHED CABLE (ROMEX) SHALL NOT BE USED.
- 1.7. NO ALUMINUM CONDUIT SHALL BE USED.
- 1.8. ONLY SHORT RUNS OF FLEXIBLE METAL CONDUIT NOT OVER 6' IN LENGTH AND HAVING A GROUND CONDUCTOR, SHALL BE USED FOR TERMINAL CONNECTIONS TO MOTORS AND ALSO FOR ELECTRICAL EQUIPMENT WHERE IT IS NOT PRACTICAL TO MAKE FINAL CONNECTION WITH RIGID CONDUIT. FLEXIBLE CONDUIT EXPOSED TO WEATHER SHALL BE SEALTITE.
- 1.9. EXPOSED CONDUIT AND CONDUIT IN CEILING SPACE SHALL BE RUN PARALLEL TO THE BUILDING STRUCTURE.
- 1.10. CONDUIT SYSTEM SHALL CONFORM TO ALL THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE (NEC/NFPA-70) AND LOCAL CODES.
2. CONDUCTORS
- 2.1. SIZES OF CONDUCTORS FOR FEEDERS ARE GIVEN ON THE DRAWINGS AND NO WIRE SMALLER THAN #12 GAUGE SHALL BE USED FOR BRANCH LIGHTING OR POWER CIRCUITS. ALL WIRING SHALL HAVE THE U.L. LABEL AND BE OF 98% CONDUCTIVITY COPPER. COPPER-CLAD ALUMINUM, ALUMINUM WIRE OR ALUMINUM CABLE IS NOT ACCEPTABLE.
- 2.1.A. THE GAUGE OF ALL WIRE SHALL BE IN ACCORDANCE WITH AWG STANDARD.
- 2.2. ALL WIRE AND CABLE FOR SMALL POWER CIRCUITS SHALL HAVE "NEC" TYPE "THHN/THWN" 600-VOLT INSULATION.
- 2.3. WIRE AND CABLE ABOVE #8 GAUGE SHALL BE STRANDED TYPE "THWN" OR "XHHW" INSULATED FOR 600-VOLTS.
3. GROUNDING
- 3.1. THIS CONTRACTOR SHALL PROVIDE, INSTALL AND CONNECT A COMPLETE SYSTEM OF GROUNDING FOR ALL EQUIPMENT AND STRUCTURES. A GOOD MECHANICAL AND ELECTRICAL CONNECTION SHALL BE MADE WITH APPROVED GROUNDING CONNECTORS.
- 3.2. ELECTRICAL SYSTEM AND EQUIPMENT GROUNDS SHALL COMPLY WITH THE NEC AS WELL AS ALL LOCAL AND STATE CODES AND REGULATIONS.
- 3.3. PANELS, CONDUIT SYSTEMS, MOTOR FRAMES, LIGHTING FIXTURES AND OTHER EQUIPMENT THAT ARE PART OF THIS INSTALLATION SHALL BE SECURELY GROUNDED BOTH MECHANICALLY AND ELECTRICALLY IN ACCORDANCE WITH ALL CODES.
- 3.4. SYSTEM GROUND SHALL NOT EXCEED A MAXIMUM OF TEN (10) OHMS RESISTANCE. VERIFY EXISTING GROUNDING SYSTEM AND ADD ADDITIONAL GROUNDING AS REQUIRED TO MEET THE ABOVE SPECIFIED VALUE.
- 3.5. A GROUND CONDUCTOR SHALL BE SUPPLIED IN ALL CONDUIT. IT SHALL BE INSULATED, STRANDED, ANNEALED COPPER CONDUCTOR.
4. BRANCH CIRCUIT WIRING
- 4.1. THE ELECTRICAL CONTRACTOR SHALL PROVIDE AND CONNECT A COMPLETE SYSTEM OF PANELS, CONDUITS, WIRE FITTINGS, BOXES, SUPPORTS AND ALL OTHER MISCELLANEOUS MATERIALS REQUIRED FOR EQUIPMENT AS INDICATED ON THE PLANS AND READY FOR OPERATION BY THE OWNER.
- 4.2. ALL CIRCUITS SHALL BE COLOR CODED.

END OF SECTION – 260500

SECTION 262000 – ELECTRICAL SERVICE AND DISTRIBUTION

1. SECONDARY SERVICE
- 1.1. ELECTRICAL SERVICE SHALL BE SECONDARY, AS SHOWN ON PLANS WITH GROUNDED NEUTRAL AND SECONDARY METERING. PROVIDE ALL NECESSARY EQUIPMENT AND MATERIAL AND INSTALL THE SERVICE, METERING AND DISTRIBUTION EQUIPMENT ACCORDINGLY.
- 1.2. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE POWER COMPANY TO SECURE COMPLETE DETAILS FOR THE CONNECTION TO THE EXISTING PRIMARY TRANSFORMER.
- 1.3. ELECTRICAL CONTRACTOR SHALL PROVIDE SECONDARY SERVICE CABLES AND CONDUITS FROM THE TRANSFORMER TO MAIN SERVICE AS INDICATED ON DRAWINGS.
- 1.4. SITE ELECTRICAL SHALL BE COORDINATED WITH LOCAL POWER COMPANY BY ELECTRICAL CONTRACTOR.
- 1.5. PROVIDE COORDINATION, VIA THE GENERAL CONTRACTOR, OF THE SITE ELECTRICAL CONTRACTOR FOR THE FINAL LOCATIONS, PENETRATIONS, AND SERVICE TIE-INS ASSOCIATED WITH SECONDARY POWER SERVICE ENTRANCE CONDUITS.
2. SAFETY SWITCHES
- 2.1. GENERAL
- 2.1.A. SWITCH SHALL BE HEAVY DUTY TYPE WITH VISIBLE, QUICK MAKE, QUICK BREAK BLADES. SWITCHES SHALL BE U.L. LISTED AND CONFORM TO NEMA STANDARDS.
- 2.2. ENCLOSURES
- 2.2.A. STEEL ENCLOSURES WITH OPERATING HANDLE AT SIDE. NEMA 1 FOR GENERAL INDOOR USE, NEMA 3R FOR GENERAL OUTDOOR USE AND NEMA 4 (STAINLESS STEEL) WHERE INDICATED ON THE DRAWINGS. MANUFACTURER'S STANDARD ENAMEL FINISH.
- 2.2.B. THE ENCLOSURE SHALL BE INTERLOCKED WITH THE SWITCH HANDLE SUCH THAT THE ENCLOSURE DOOR CANNOT BE OPENED WITH SWITCH IN THE "ON" POSITION. SWITCH HANDLE SHALL BE CAPABLE OF BEING PADLOCKED IN THE "OFF" POSITION.
- 2.3. RATINGS
- 2.3.A. SAFETY SWITCHES SHALL BE RATED FOR THE CONTINUOUS CURRENT AND VOLTAGE INDICATED ON THE DRAWINGS, WHERE USED IN CONJUNCTION WITH MOTOR CIRCUITS, UNITS SHALL BE HORSEPOWER RATED FOR THE SIZE MOTOR INDICATED.
- 2.3.B. SWITCHES USED AS SERVICE ENTRANCE EQUIPMENT SHALL BE U.L. LISTED FOR USE AS SERVICE EQUIPMENT.
- 2.4. POLES
- 2.4.A. SAFETY SWITCHES SHALL HAVE THE NUMBER OF POLES INDICATED ON THE DRAWINGS, BUT NOT FEWER THAN ONE (1) POLE FOR EACH UNGROUNDED CONDUCTOR TO BE OPENED.
- 2.5. FUSES
- 2.5.A. WHERE INDICATED, SAFETY SWITCHES SHALL BE FUSED IN EACH UNGROUNDED LEG IN ACCORDANCE WITH THE REQUIREMENTS OF THE SECTION ENTITLED "FUSES".
- 2.6. SWITCH SHALL BE SQUARE-D # H366NR (NO EXCEPTIONS).
3. FUSES
- 3.1. THIS CONTRACTOR SHALL REPLACE ALL FUSES BLOWN DURING CONSTRUCTION AND TESTING AND SHALL PROVIDE A COMPLETE SET OF FUSES IN ALL FUSE HOLDERS, SWITCHES, PANELS AND ALL OTHER DEVICES REQUIRING FUSES.
- 3.2. FUSES SHALL BE AS INDICATED ON PLANS.
- 3.2.A. PROVIDE LABEL IN EACH SWITCH INDICATING FUSE TYPE, AMPERE RATING AND INTERRUPTING RATING.
- 3.2.B. REPLACE ALL BLOWN FUSES UP TO FINAL ACCEPTANCE OF JOB.
- 3.2.C. PROVIDE AND PLACE IN A WALL MOUNTED METAL CABINET IN ELECTRICAL ROOM A SPARE SET OF THREE (3) FUSES FOR EACH SIZE AND TYPE FUSE USED IN SWITCHBOARD IN ELECTRICAL ROOM. THE CABINET SHALL BE SIMILAR TO BUSSMAN SPARE FUSE CABINET #SFC, WITH DOOR, LOCKING HANDLE, INTERNAL SHELF AND FUSE STOCK LIST.
- 3.3. FUSES SHALL BE MERSEN # TR5600R (NO EXCEPTIONS).

END OF SECTION – 262000

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PROJECT

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MCI1.12

LANSING, KS

PARCEL ID: 052-107-25-0-00-00-175

811 4-H RD

LANSING, KS 66043

CLIENT

Middle Mile Infrastructure

CONSULTANT

AECOM Technical Services , Inc.

10 Patewood Drive, Suite 500

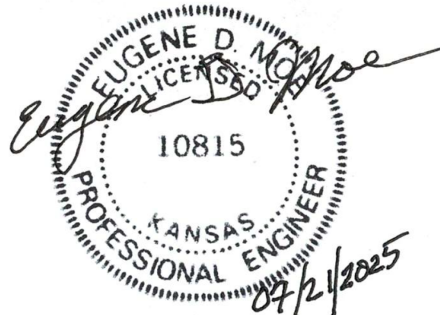
Greenville, SC 29615

License Number: E-511

1-864-234-3069 tel

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REGISTRATION



ISSUE/REVISION

I/R	DATE	DESCRIPTION

PROJECT NUMBER

60645418

SHEET TITLE

ELECTRICAL SPECIFICATIONS

SHEET NUMBER

22

ISSUE FOR BID

DATE OF ISSUE: 07/21/2025



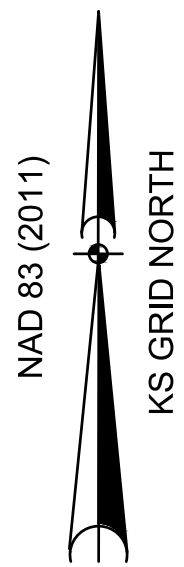
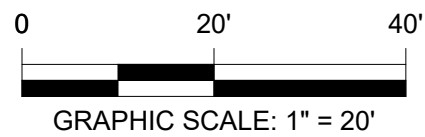
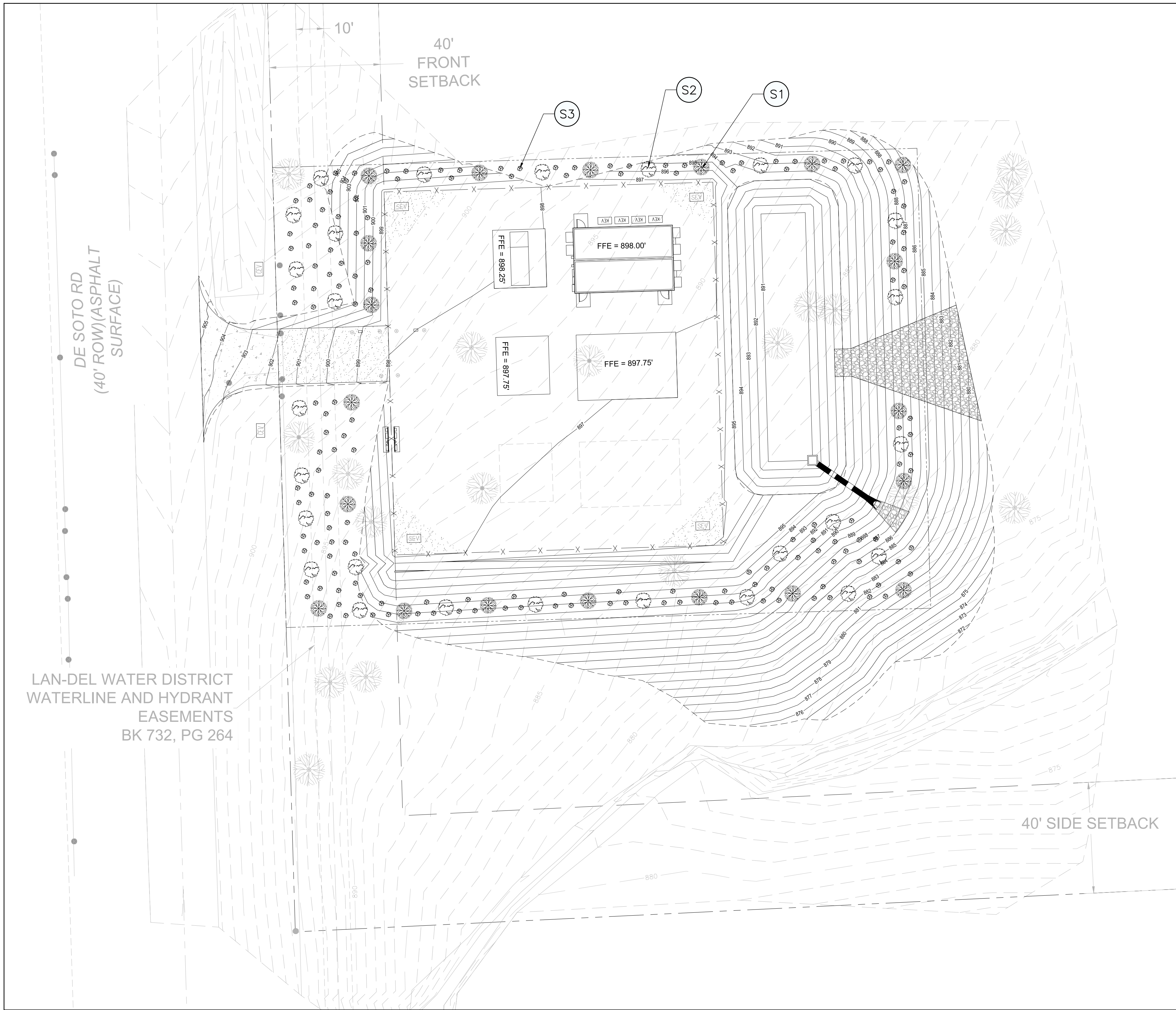
1. CONTRACTOR SHALL COORDINATE WITH THE UTILITY CO. FOR TRANSFORMER CONNECTION AND METER / CT CABLE REQUIREMENTS AND DELINEATION OF WORK. REFER TO GENERAL UTILITY CO. COORDINATION NOTES ON SHEET 18 AND ELECTRIC UTILITY METER NOTE ON SHEET 19 FOR ADDITIONAL REQUIREMENTS AND INFORMATION.
2. LABEL SERVICE ENTRANCE DISCONNECT WITH RED TAG.
3. NEUTRAL-TO-GROUND BOND SHALL ONLY BE MADE IN THE H-FRAME SERVICE DISCONNECT.
4. SERVICE RATED DISCONNECT SWITCH SHIPPED INSTALLED ON HUT SHELTER SHALL NOT BE USED FOR UTILITY SERVICE CONNECTION. CONTRACTOR IS RESPONSIBLE FOR VERIFYING THAT NO NEUTRAL-TO-GROUND BOND IS TERMINATED IN THE DISCONNECT.
5. NEUTRAL-TO-GROUND BOND SHALL NOT BE MADE AT THE GENERATOR MAIN CIRCUIT BREAKER DISCONNECTING MEANS.

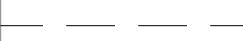
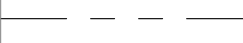








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I/R	DATE	DESCRIPTION

23

ISSUE FOR BID
DATE OF ISSUE: 07/21/2025



LEGEND	
	WORK LIMIT LINE
	PROPERTY LINE
	RIGHT OF WAY LINE
	PROPOSED EASEMENT LINE
	LANDSCAPE BUFFER
	EDGE OF GRAVEL
	SETBACK LINE
	FENCE LINE
	GRAVEL
	CONCRETE

LANDSCAPE NOTES

1. SITE UTILIZES 'APPROVED PLANT LIST FOR CITY OF LANSING TREE BOARD UPDATED 2023.
2. LANDSCAPING MAINTENANCE WILL BE PROVIDED QUARTERLY AND AS NEEDED TO MAINTAIN SURVIVABILITY AND AESTHETIC VALUE.
3. MAINTENANCE OF REQUIRED LANDSCAPED AREAS IS THE RESPONSIBILITY OF THE PROPERTY OWNER. ALL SUCH AREAS SHALL BE PROPERLY MAINTAINED SO AS TO ASSURE THEIR SURVIVAL AND AESTHETIC VALUE AND SHALL BE PROVIDED WITH AN IRRIGATION SYSTEM OR A READILY AVAILABLE WATER SUPPLY. FAILURE TO MONITOR SUCH AREAS IS A VIOLATION OF THIS ORDINANCE AND MAY BE REMEDIED IN THE MANNER PRESCRIBED FOR OTHER VIOLATIONS.
4. NO SIGNIFICANT TREES WILL BE REMOVED AS PART OF THIS PROJECT

PLANT SPECIFICATIONS

LARGE TREE TYPE 1:		SWAMP WHITE OAK
S1	SCIENTIFIC NAME:	QUERCUS BICOLOR
	MIN MATURE HEIGHT:	50'-60'
	MIN CALIPER:	2"
	QUANTITY:	20
	SPACING:	40' COC
EVERGREEN TREE TYPE 1:		LIMBER PINE
S2	SCIENTIFIC NAME:	PINUS FLEXILIS
	MIN MATURE HEIGHT:	30'-40'
	MIN PLANTING HEIGHT:	5'
	QUANTITY:	27
	SPACING:	30' COC
SHRUB TYPE 1:		REDTWIG DOGWOOD
S3	SCIENTIFIC NAME:	CORNUS SERICEA
	MIN MATURE HEIGHT:	6'-12'
	MIN PLANTING HEIGHT:	18"
	QUANTITY:	159
	SPACING:	5' COC

ISSUE FOR BID

DATE OF ISSUE: 08/19/2025

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PROJECT

MMI - ILA SHELTER
MCI1.12
LANSING, KS

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REGISTRATION

ISSUE/REVISION

1	08/19/2025	Site Plan Comments
I/R	DATE	DESCRIPTION

PROJECT NUMBER

60645418

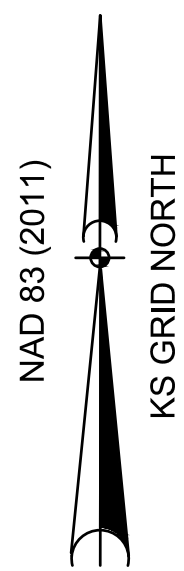
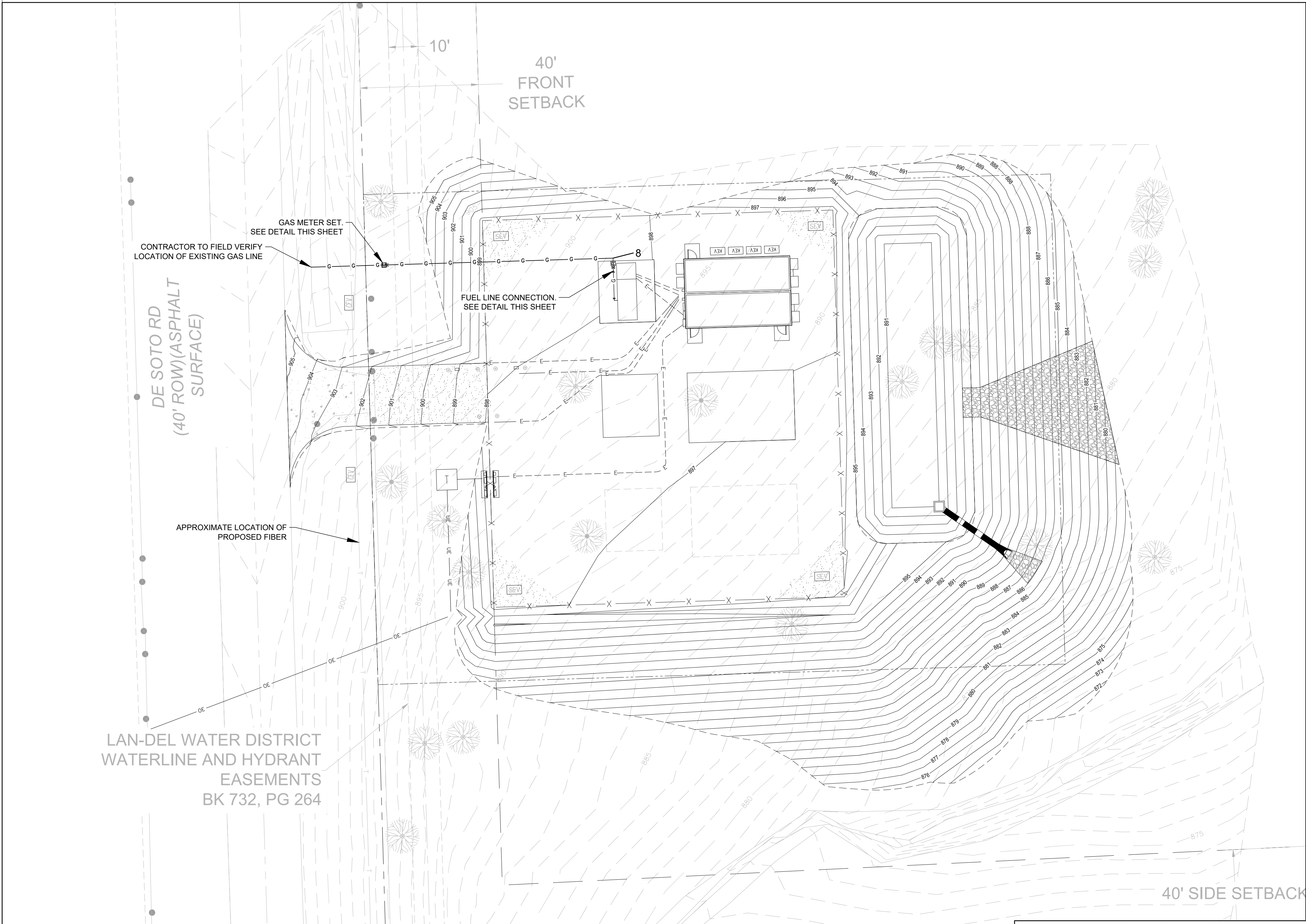
SHEET TITLE

LANDSCAPE PLAN

SHEET NUMBER

24

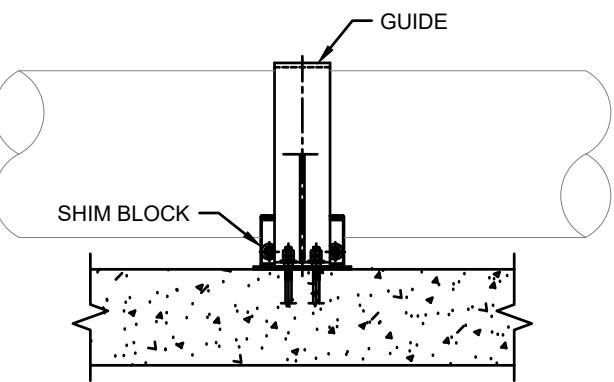
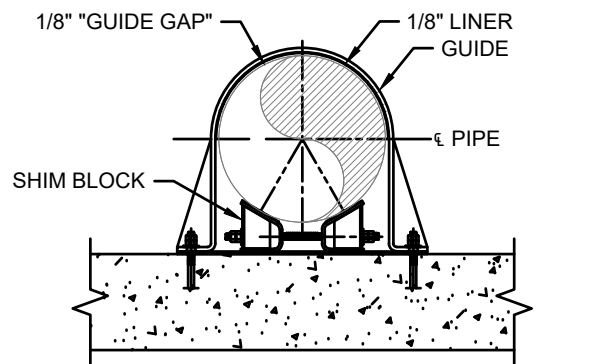
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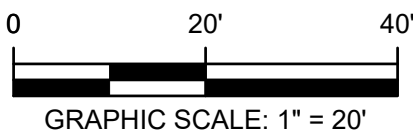
LEGEND	
	WORK LIMIT LINE
	PROPERTY LINE
	RIGHT OF WAY LINE
	PROPOSED EASEMENT LINE
	LANDSCAPE BUFFER
	EDGE OF GRAVEL
	SETBACK LINE
	PROPOSED FIBER
	FENCE LINE
	GRAVEL
	CONCRETE
	GRADING LINE
	EXISTING UNDERGROUND GAS
	PROPOSED UNDERGROUND GAS

CONSTRUCTION NOTES

- JURISDICTIONAL GAS COMPANY (KANSAS GAS) TO SIZE AND INSTALL METER AND SERVICE PIPE FROM GAS MAIN TO GAS METER.
- INSTALL BURIED HDPE PIPELINE WITH TRACER WIRE. SECURE THE TRACER WIRE TO THE HDPE PIPE USING NON-METALLIC MATERIAL.
- REGULATOR SPECIFICATIONS:
 - BRAND: SENSUS
 - MODEL: 122-12
 - SIZE: 2½-IN
 - SPRING: BLUE SPRING 1" w.c. DROOP
 - INLET PRESS: 2 PSI
 - SET PRESS: 7" w.c.
- MAINTAIN A MINIMUM CLEARANCE OF 1-FT WHERE THE BURIED HDPE GAS LINE CROSSES OTHER UTILITY LINES.



PIPE SUPPORT DETAIL
NOT TO SCALE



ISSUE FOR BID
DATE OF ISSUE: 08/19/2025



PROJECT
MMI - ILA SHELTER
MCI1.12
LANSING, KS
PARCEL ID: 052-107-25-0-00-00-175
811 4-H RD
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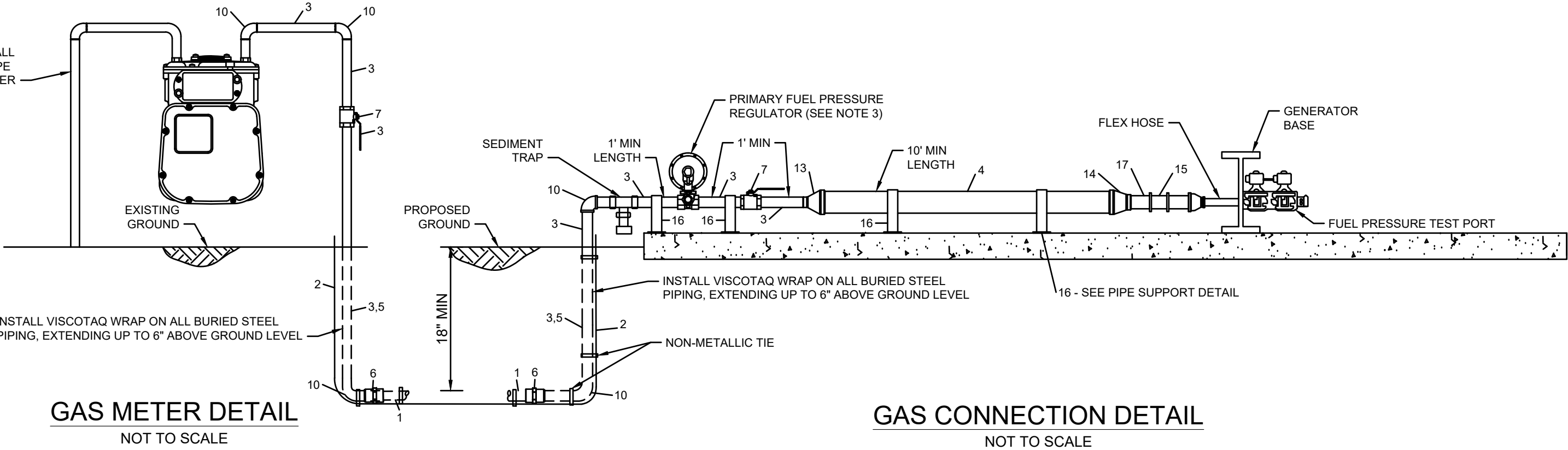
REGISTRATION

ISSUE/REVISION		
1	08/19/2025	Site Plan Comments
I/R	DATE	DESCRIPTION

PROJECT NUMBER
60645418
SHEET TITLE
UNDERGROUND UTILITY PLAN
SHEET NUMBER
25

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LAN-DEL WATER DISTRICT
WATERLINE AND HYDRANT
EASEMENTS
BK 732, PG 264



MATERIAL SUMMARY			
ITEM #	DESCRIPTION	QUANTITY	UNIT
1	2" HDPE PIPE	102	FT.
2	14-AWG STRANDED WIRE WITH YELLOW THIN/THWN INSULATION	102	FT.
3	2" GALVANIZED STEEL PIPE	20	FT.
4	5" GALVANIZED STEEL PIPE	10	FT.
5	6" WIDE VISCOTAQ PE OUTERWRAP	2	ROLL
6	2" STEEL TO HDPE TRANSITION FITTING	2	EA.
7	2" STAINLESS STEEL FEMALE TO FEMALE THREADED BALL VALVE	1	EA.
8	2" 90° HDPE ELBOW	1	EA.
9	2" 45° HDPE ELBOW	0	EA.
10	2" GALVANIZED STEEL 90° ELBOW	1	EA.
11	2" PE TEE	1	EA.
12	2" HDPE CAP	1	EA.
13	2"X5" GALVANIZED STEEL REDUCER	1	EA.
14	3"X5" GALVANIZED STEEL REDUCER	1	EA.
15	3" GALVANIZED STEEL 90° ELBOW	1	EA.
16	EZ LINE GSB-01A WITH 1/8" GUIDE GAP PIPE SUPPORT ASSEMBLY	4	EA.
17	3" GALVANIZED STEEL PIPE	5	FT.
18	2" SEDIMENT TRAP	1	EA.
19	SENSUS 2 ½" MODEL 122-12 REGULATOR	1	EA.