



VICINITY MAP

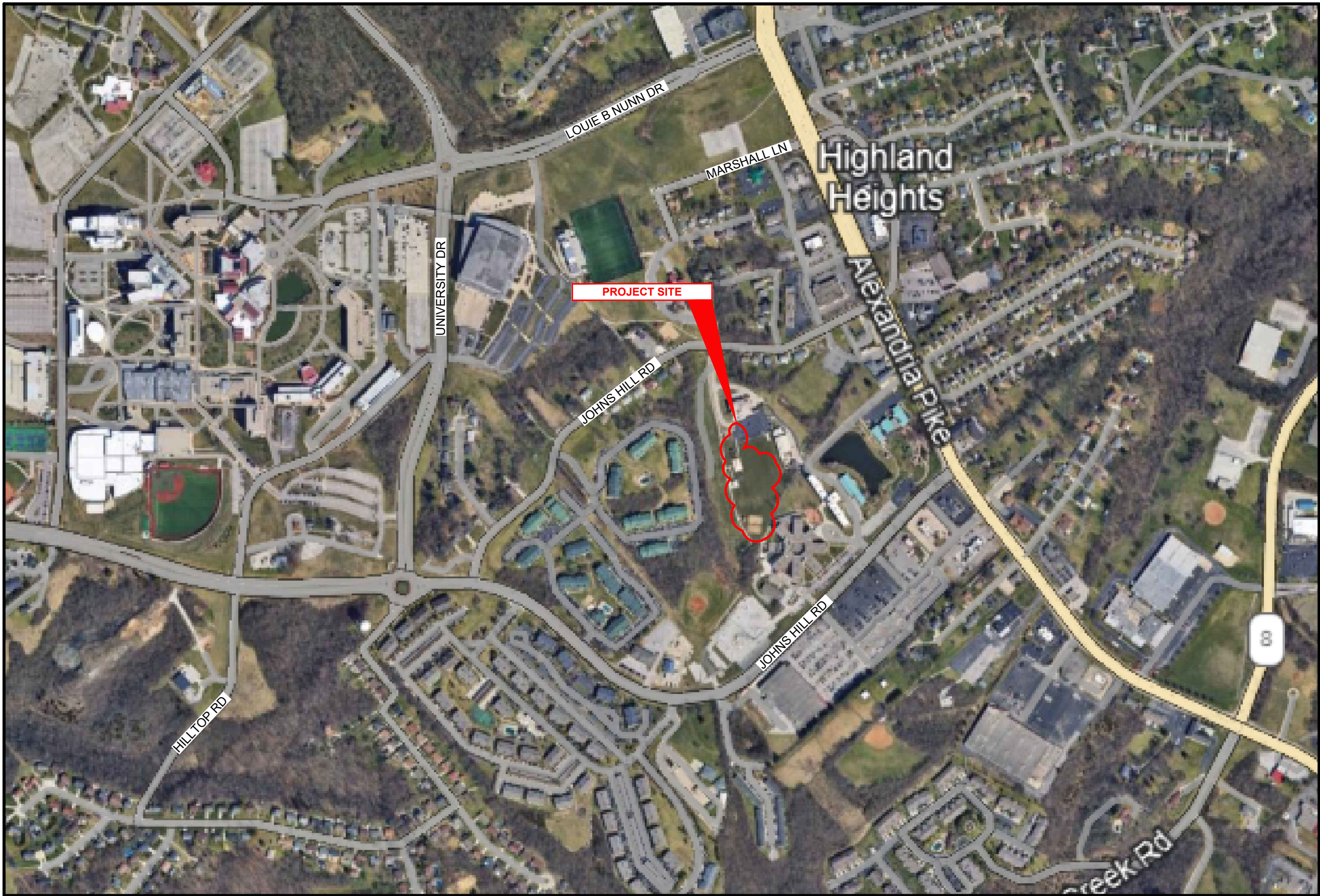
THE COMMONS AT HIGHLAND HEIGHTS

CENTRAL COMMONS IMPROVEMENTS

CITY OF HIGHLAND HEIGHTS, CAMPBELL COUNTY, KENTUCKY

241829

CITY OF HIGHLAND HEIGHTS OFFICIALS	
MAYOR	GREG MEYERS
CITY CLERK	JEANNE PETTIT
CITY ADMINISTRATOR	MICHAEL GIFFEN
CITY COUNCIL MEMBERS	DEB BALL JOHN BRAUN GARY CHINN PATRICIA HAYLEY RENE HEINRICH JESSE HOCKENBURY
PUBLIC WORKS DIRECTOR	STEVE LEHMAN



SITE MAP

K.T.C. SPECIFICATIONS

THE LATEST STANDARD SPECIFICATIONS OF THE KENTUCKY DEPARTMENT OF TRANSPORTATION CABINET, INCLUDING CHANGES AND SUPPLEMENTAL SPECIFICATIONS THERETO.

SOURCE OF BOUNDARY INFORMATION

THE BOUNDARY INFORMATION SHOWN ON THESE PLANS IS BASED UPON CAMPBELL COUNTY G.I.S. MAPPING AND DOES NOT REPRESENT AN ACTUAL FIELD BOUNDARY SURVEY BY CT CONSULTANTS, INC.

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THE COMMONS AT HIGHLAND HEIGHTS
CENTRAL COMMONS IMPROVEMENTS
HIGHLAND HEIGHTS, KY

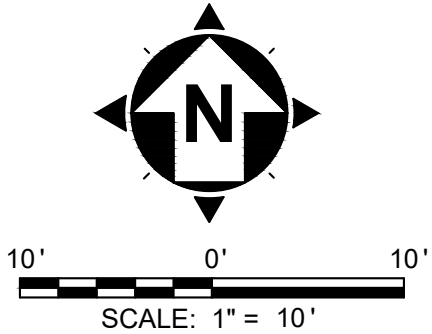
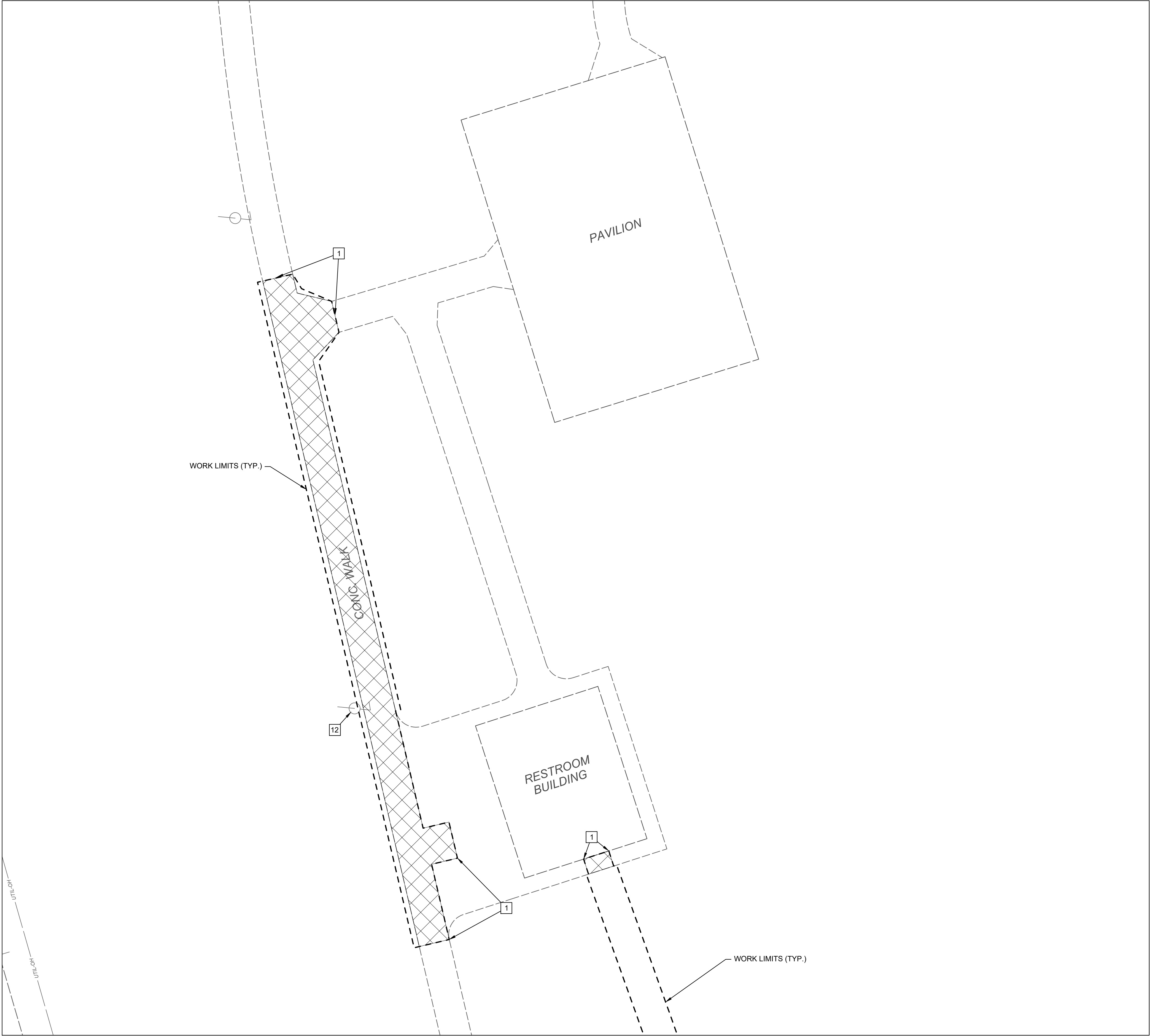
TITLE SHEET

PROJECT NO. 241829	
DISCIPLINE CIVIL	
SHEET NAME G1	
SHEET 1	OF 31

ENGINEER

P.E. #





DEMOLITION NOTES	
1	SAWCUT PAVEMENT, FULL DEPTH
2	REMOVE EXISTING CURB
3	REMOVE EXISTING DRINKING FOUNTAIN
4	REMOVE EXISTING SHOWERS
5	REMOVE EXISTING PVC PIPE
6	REMOVE EXISTING BBQ
7	REMOVE EXISTING STORM INLET
8	REMOVE EXISTING STORM SEWER
9	SAWCUT & REMOVE EXISTING ASPHALT 6" OUTSIDE OF FENCE
10	REMOVE EXISTING GAZEBO
11	SEE LTP100 FOR TREE REMOVAL AND PRESERVATION
12	PROTECT EXISTING FENCE DURING CONSTRUCTION
13	PROTECT EXISTING LIGHT POLE DURING CONSTRUCTION
14	PROTECT EXISTING EMERGENCY CALLBOX
15	PROTECT EXISTING WALL DURING CONSTRUCTION
16	PROTECT EXISTING BUILDING DURING CONSTRUCTION

LEGEND	
	REMOVE EXISTING CONCRETE PAVEMENT
	LIMITS OF DISTURBANCE

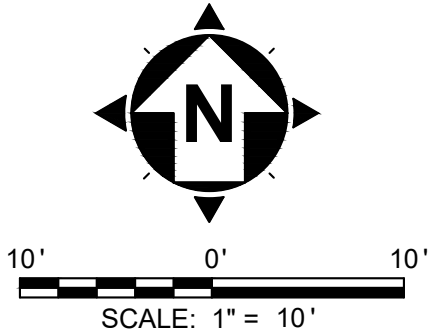
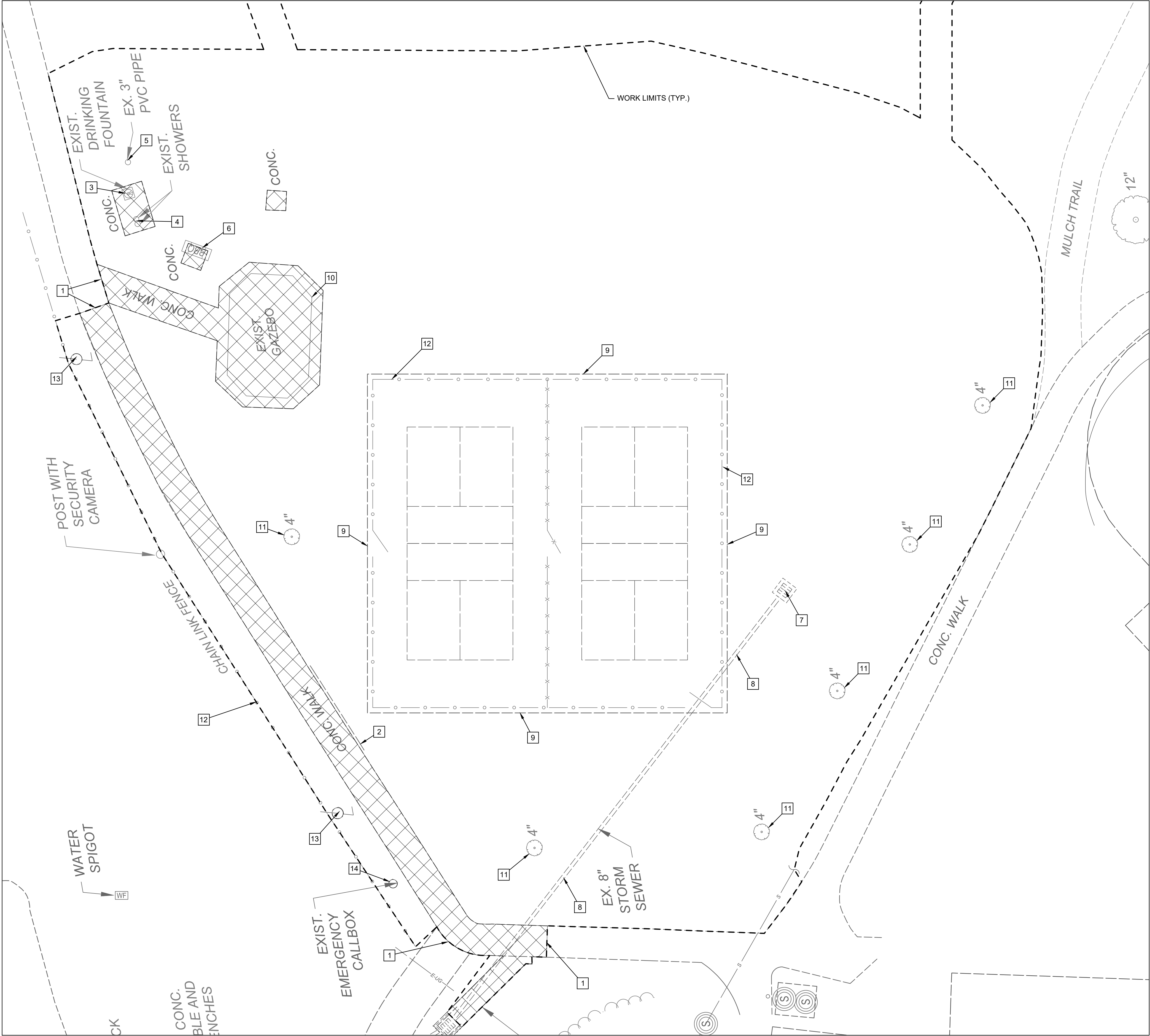
THE COMMONS AT HIGHLAND HEIGHTS
CENTRAL COMMONS IMPROVEMENTS
HIGHLAND HEIGHTS, KY

EXISTING CONDITIONS AND
DEMOLITION PLAN

PROJECT NO. 241829	
DISCIPLINE CIVIL	
SHEET NAME C2	
SHEET 3	OF 31



ISSUED FOR:	BID	DATE	REVISION	NO
ISSUE DATE:	11/04/2025	11/18/24		
SCALE:	AS SHOWN			
DESIGNED BY:	C.BARRY			
DRAWN BY:	C.BARRY			
CHECKED BY:	F.TWEHUES			



DEMOLITION NOTES	
1	SAWCUT PAVEMENT, FULL DEPTH
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	LIMITS OF DISTURBANCE

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CENTRAL COMMONS IMPROVEMENTS
HIGHLAND HEIGHTS, KY

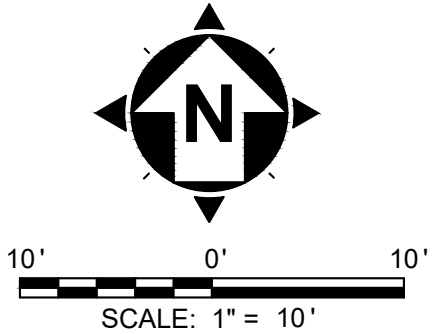
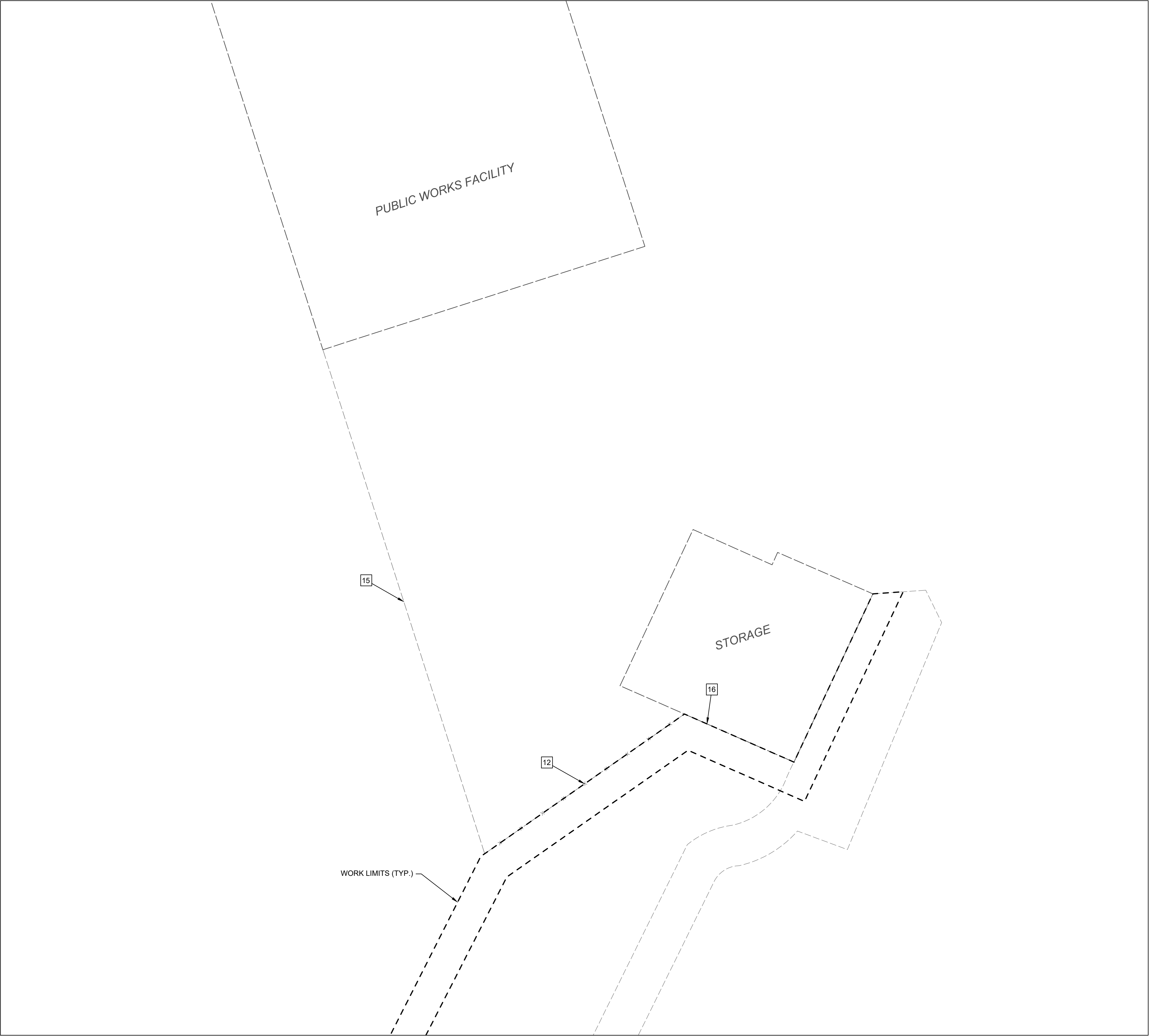
EXISTING CONDITIONS AND
DEMOLITION PLAN

PROJECT NO. 241829	
DISCIPLINE CIVIL	
SHEET NAME C3	
SHEET 4	OF 31



verdantas

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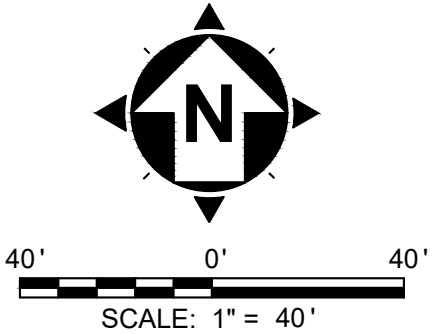
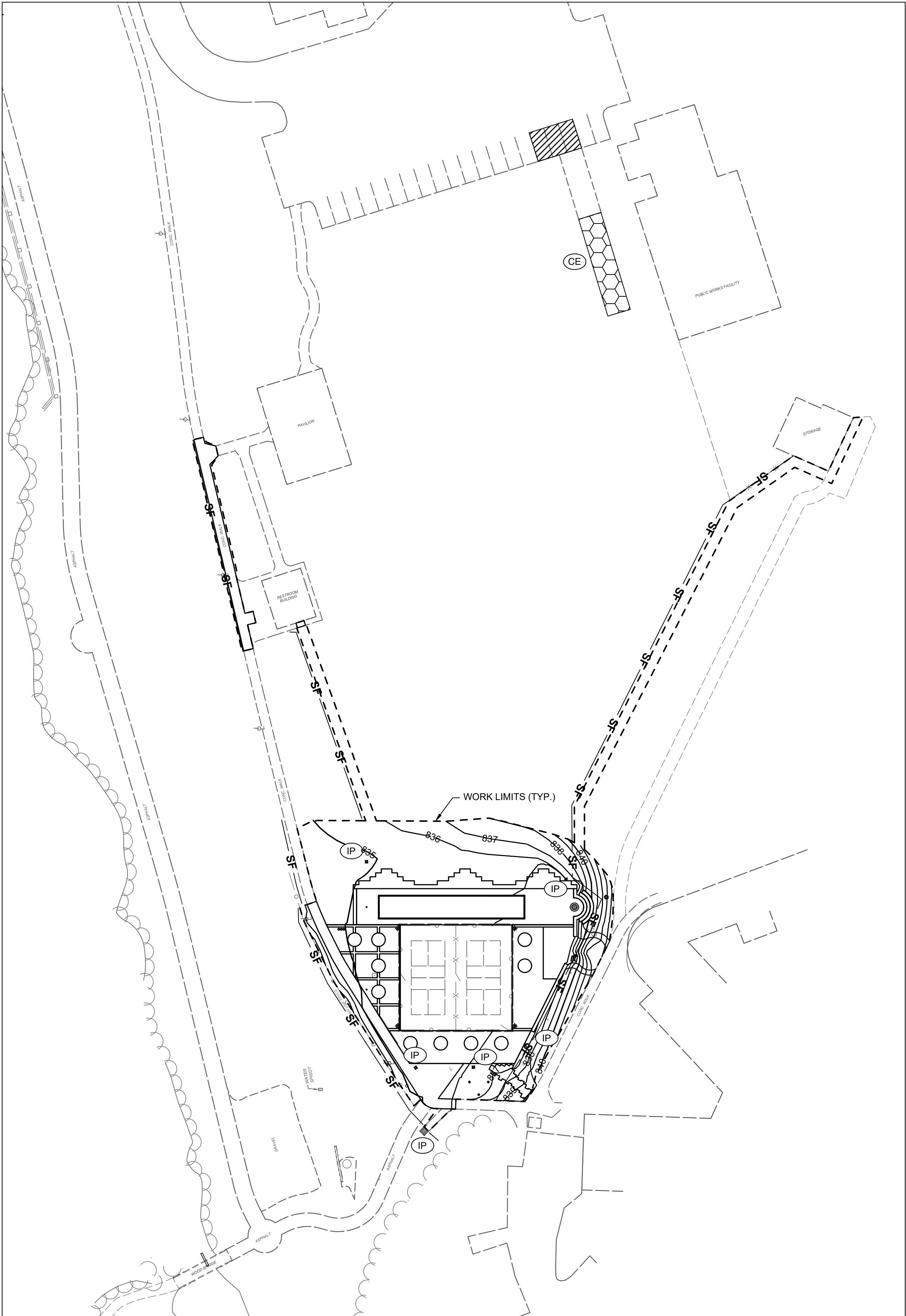
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HIGHLAND HEIGHTS, KY

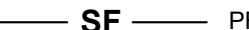
EXISTING CONDITIONS AND
DEMOLITION PLAN

PROJECT NO. 241829	
DISCIPLINE CIVIL	
SHEET NAME C4	
SHEET 5	OF 31

ISSUED FOR:	BID	NO	REVISION	DATE
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SCALE:	AS SHOWN			
DESIGNED BY:	C.BARRY			
DRAWN BY:	C.BARRY			
CHECKED BY:	F.TWEHUES			





EROSION CONTROL LEGEND	
	INLET PROTECTION
	CONSTRUCTION ENTRANCE
	PROPOSED SILT FENCE / FILTER SOCK
	CONSTRUCTION ENTRANCE
	NO PARKING ZONE DURING CONSTRUCTION

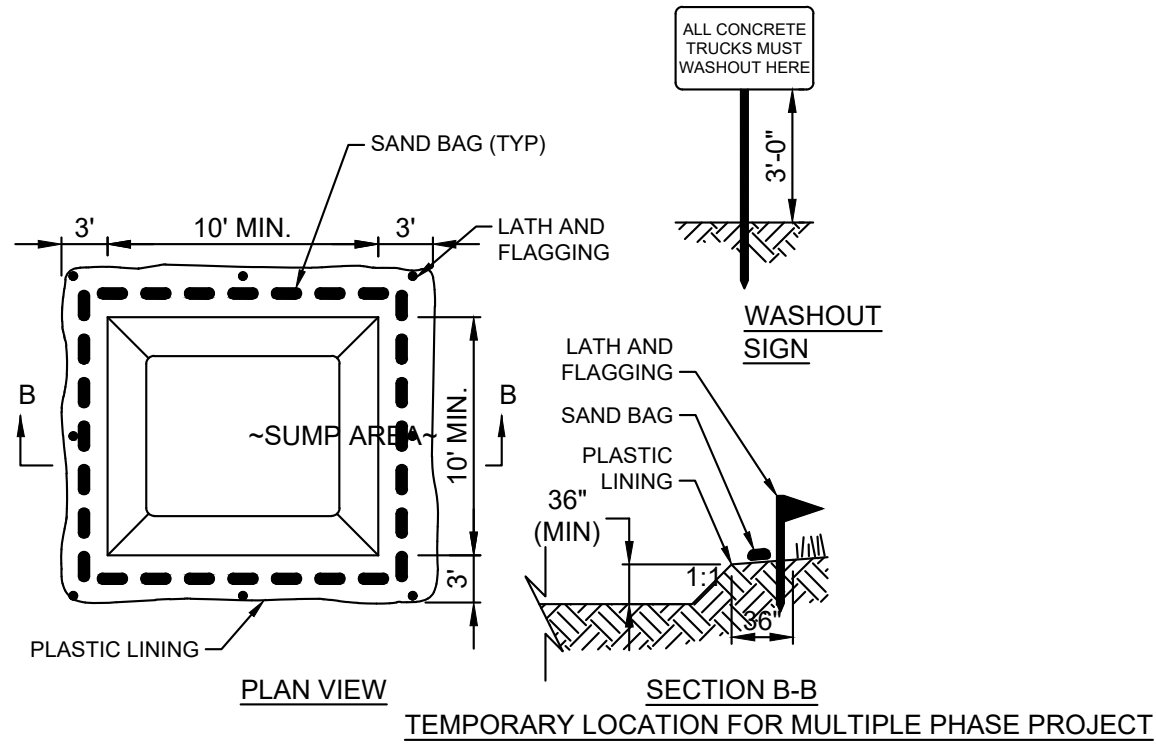
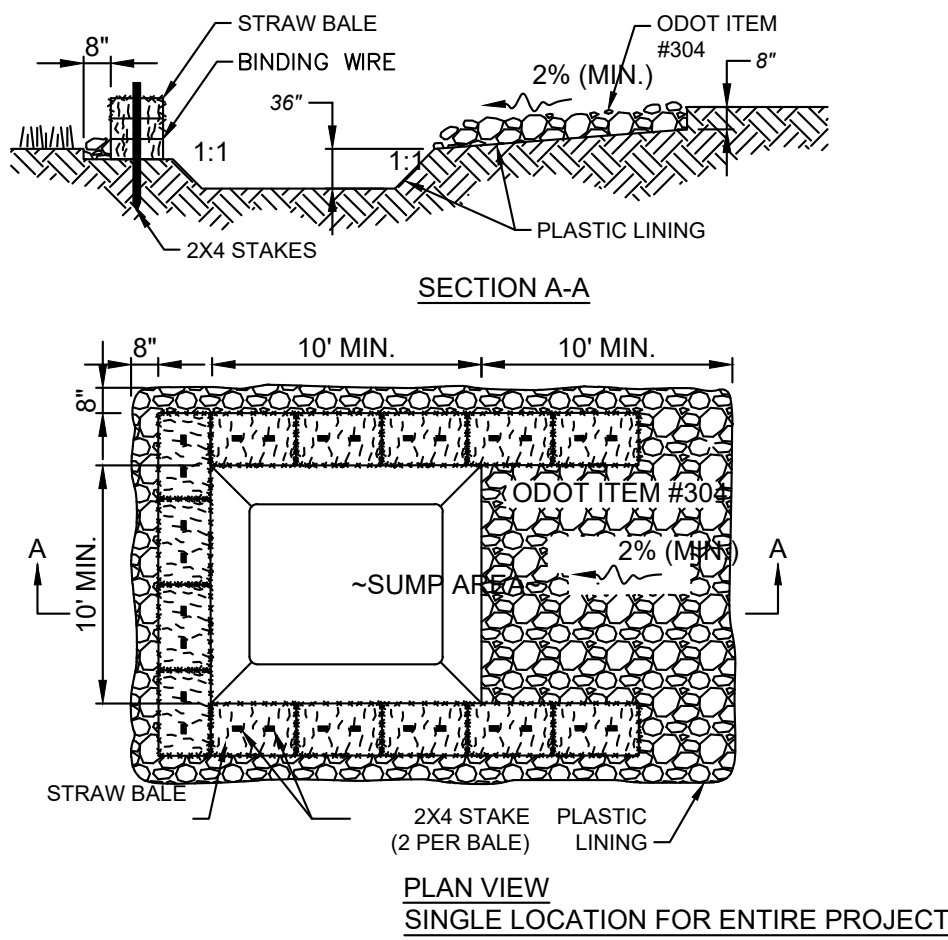


THE COMMONS AT HIGHLAND HEIGHTS
CENTRAL COMMONS IMPROVEMENTS
HIGHLAND HEIGHTS, KY

EROSION CONTROL PLAN

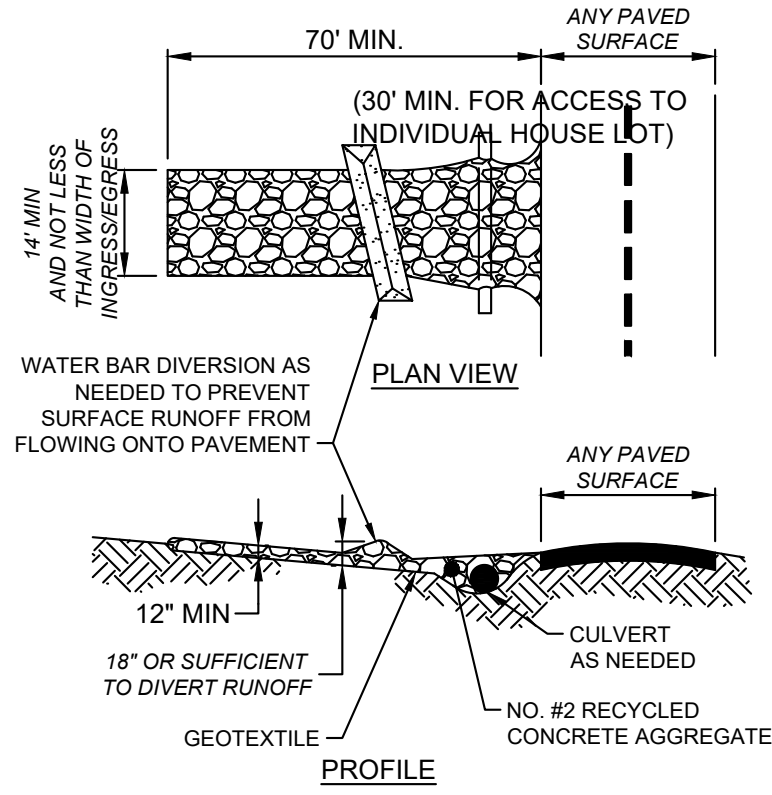
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CHECKED BY:	F.TWEHUES			

PROJECT NO. 241829	
DISCIPLINE CIVIL	
SHEET NAME C5	
SHEET 6	OF 31



- NOTES:
- WASHOUT PIT SHALL BE LOCATED 100' MINIMUM FROM INLETS, STREAMS, WETLANDS AND ANY OTHER SURFACE WATERS.
 - ALL EXCESS CONCRETE AND CONCRETE WASHOUT, INCLUDING FROM HAND MIXERS AND LIGHT EQUIPMENT, SHALL BE DISPOSED OF IN THE CONCRETE WASHOUT AREA. DISPOSAL OF EXCESS CONCRETE OR CONCRETE WASHOUT ON THE GROUND, OR IN STORM DRAINS, DITCHES OR WATER BODIES, IS PROHIBITED.
 - CONCRETE WASHOUT AREA SHALL BE SUFFICIENT SIZE TO CONTAIN CONCRETE WASTE GENERATED. FOR LARGER SITES, MULTIPLE CONCRETE WASHOUT AREAS MAY BE REQUIRED.
 - IF CONCRETE WASHOUT AREA IS LOCATED AWAY FROM A PAVED SURFACE, CONSTRUCT A GRAVEL ACCESS ROUTE EQUAL IN COMPOSITION TO THE CONSTRUCTION ENTRANCE.
 - PLASTIC LINING SHALL BE DOUBLE-LINED, CONTINUOUS 10-ML POLYETHYLENE SHEETING FREE OF HOLES, TEARS OR OTHER DEFECTS, AND INSTALLED ON A SMOOTH, LEVEL SURFACE, FREE OF ROCKS OR DEBRIS.
 - CONCRETE WASHOUT SIGNAGE SHALL BE CLEARLY VISIBLE AND LOCATED WITHIN 30 FEET OF EACH WASHOUT AREA.
 - CONCRETE WASHOUT AREAS SHALL BE COVERED DURING INCLEMENT WEATHER TO PREVENT OVERFLOWS.
 - PREFABRICATED, PORTABLE AND RE-USABLE CONCRETE WASHOUT CONTAINERS ARE ACCEPTABLE, BUT MUST BE SPECIFICALLY DESIGNED FOR CONCRETE WASHOUT USE.
 - CONCRETE WASHOUT AREA SHALL BE INSPECTED DAILY TO CHECK FOR DAMAGE AND TO DETERMINE IF IT NEEDS CLEANED OR REPLACED. ANY DAMAGE TO THE SIDEWALLS OR POLYETHYLENE SHEETING SHALL BE REPAIRED IMMEDIATELY. THE CONCRETE WASHOUT AREA SHALL BE CLEANED OR REPLACED WHEN IT IS 75% FULL. THE POLYETHYLENE SHEETING SHALL BE REPLACED AFTER EACH CLEANING.
 - SAW CUT CONCRETE, RESIDUE FROM SAW CUT, AND GRINDINGS SHALL BE DISPOSED OF IN THE WASHOUT PIT.

CONCRETE WASHOUT DETAIL
SCALE: NONE

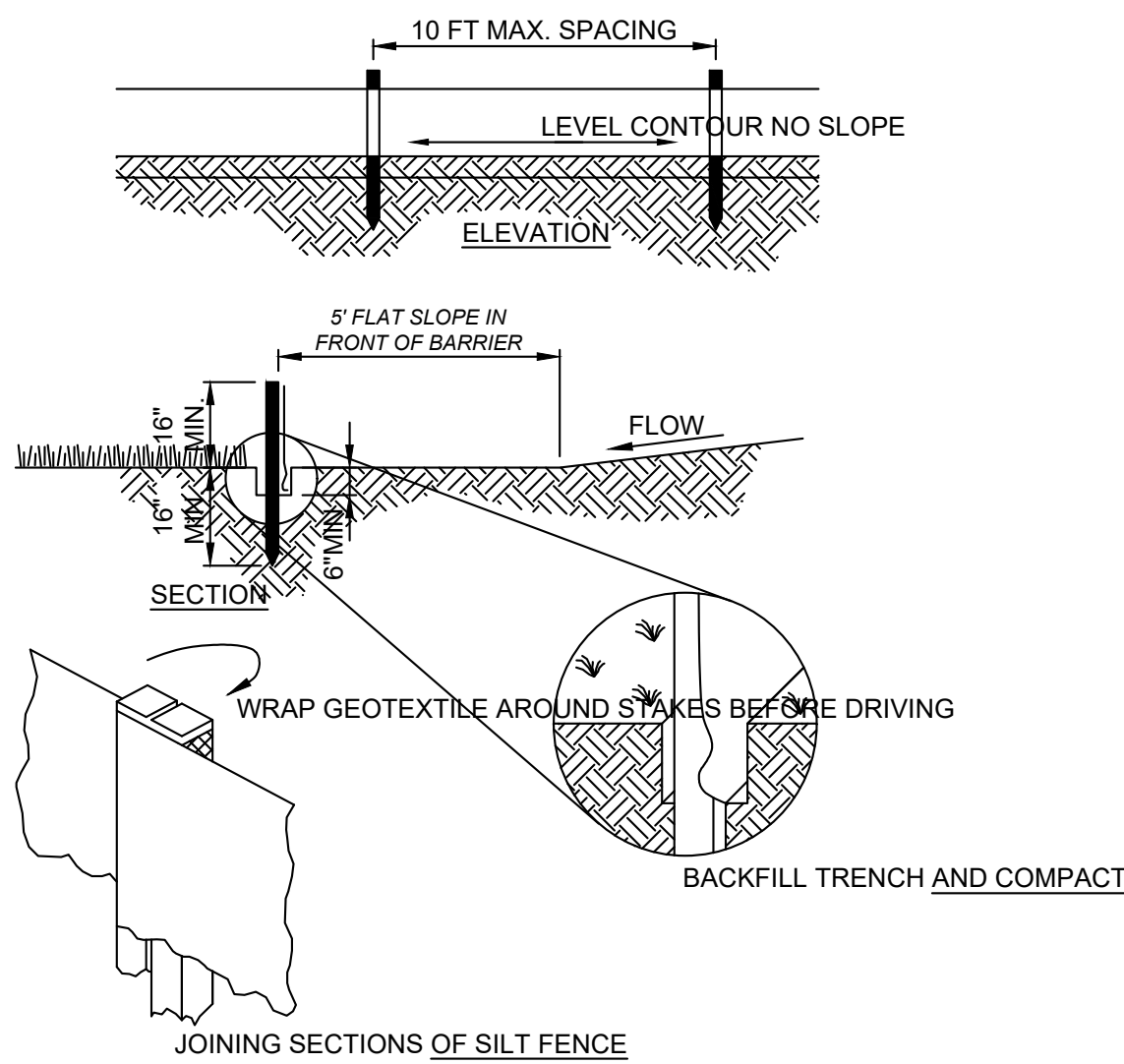


- NOTES:
- PLACE GEOTEXTILE OVER THE ENTIRE AREA PRIOR TO PLACING STONE MEETING THE MIN. SPECIFICATIONS:
 - TENSILE STRENGTH = 200 LBS.
 - PUNCTURE STRENGTH = 80 PSI
 - TEAR STRENGTH = 50 LBS.
 - BURST STRENGTH = 320 PSI
 - ELONGATION = 20%
 - EQUIVALENT OPENING SIZE ≤ 0.6 MM
 - PERMITTIVITY = 0.001 CM/SEC
 - APPLY ADDITIONAL STONE AS CONDITIONS DEMAND AND REPLENISH STONE WHEN THE DEPTH IS LESS THAN 6". REMOVE AND REPLACE IF STONES BECOMES MUD-LADEN.
 - IMMEDIATELY REMOVE MUD DROPPED, WASHED OR TRACKED ONTO ROADS OR ANY SURFACE WHERE RUNOFF IS NOT CHECKED BY SEDIMENT CONTROLS BY SCRAPING OR SWEEPING.
 - CONSTRUCTION ENTRANCES SHALL NOT BE RELIED UPON TO REMOVE MUD FROM VEHICLES OR TO PREVENT OFF-SITE TRACKING. VEHICLES THAT ENTER AND LEAVE THE CONSTRUCTION SITE SHALL BE RESTRICTED FROM MUDDY AREAS.

CONSTRUCTION ENTRANCE
SCALE: NONE

PERMANENT SEEDING FERTILIZATION AND MOWING CHART					
MIXTURE	FORMULA	LB/ AC	TIME	MOW	
CREEPING RED FESCUE DOMESTIC RYEGRASS KENTUCKY BLUEGRASS	10-10-10	500	FALL YEARLY OR AS NEEDED	≥3"	
TALL FESCUE	10-10-10	500		≥4"	
TURF-TYPE FESCUE	10-10-10	500			
CROWN VETCH FESCUE	0-20-20	400	SPRING, AND YEARLY AFTER ESTABLISHED	DO NOT MOW	
FLAT PEA FESCUE	0-20-20	400			
PERMANENT SEEDING SPECIES SELECTION					
SEED MIX	SEED RATE LB/AC.		NOTES:		
GENERAL USE					
CREEPING RED FESCUE DOMESTIC RYEGRASS KENTUCKY BLUEGRASS	20 - 40 10 - 20 20 - 40	FOR CLOSE MOWING AND WATERWAYS WITH ≤2.0 FT./SEC. VELOCITY			
TALL FESCUE	40 - 50				
TURF-TYPE FESCUE	90				
STEEP BANKS OR CUT SLOPES					
TALL FESCUE	40 - 50				
CROWN VETCH TALL FESCUE	10 - 20 20 - 30	DO NOT SEED LATER THAN AUGUST			
FLAT PEA TALL FESCUE	20 - 25 20 - 30	DO NOT SEED LATER THAN AUGUST			
ROAD DITCHES AND SWALES					
TALL FESCUE	40 - 50				
TURF-TYPE FESCUE KENTUCKY BLUEGRASS	90 5				
LAWN					
KENTUCKY BLUEGRASS PERENNIAL RYEGRASS	100 - 120 100 - 120				
KENTUCKY BLUEGRASS CREEPING RED FESCUE	100 - 120 100 - 120	FOR SHADED AREAS			

PERMANENT SEEDING DETAIL
SCALE: NONE



- NOTES:
- PRESERVE VEGETATION FOR 5 FEET, OR AS MUCH AS POSSIBLE, UPSLOPE FROM THE SILT FENCE. IF VEGETATION IS REMOVED, IT SHALL BE RE-ESTABLISHED WITHIN 7 DAYS FROM SILT FENCE INSTALLATION.
 - SILT FENCE SHALL ALLOW RUNOFF TO PASS ONLY AS DIFFUSE FLOW THROUGH THE GEOTEXTILE. PERFORM ONE OF THE FOLLOWING IF RUNOFF OVERTOPS THE SILT FENCE, FLOWS UNDER OR AROUND THE ENDS, OR IN ANY OTHER WAY BECOMES A CONCENTRATED FLOW:
 - CHANGE THE LAYOUT OF THE SILT FENCE.
 - REMOVE ACCUMULATED SEDIMENT.
 - INSTALL OTHER PRACTICES.

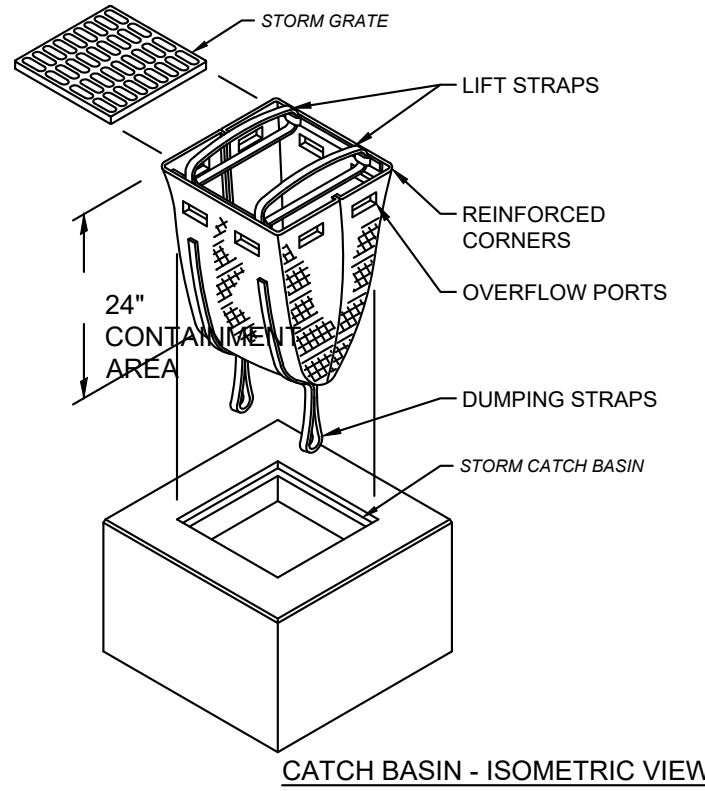
FABRIC PROPERTIES	VALUES	TEST METHOD
GRAB TENSILE STRENGTH	90 LB. MIN	ASTM D-1682
MULLEN BURST STRENGTH	190 PSI MIN	ASTM D-3786
SLURRY FLOW RATE	0.3 GAL./MIN./S.F. MAX.	
EQUIVALENT OPENING SIZE	40-80	US STD. SIEVE CW-02215
ULTRAVIOLET RADIATION STABILITY	90% MIN	ASTM-G-26

SILT FENCE
SCALE: NONE

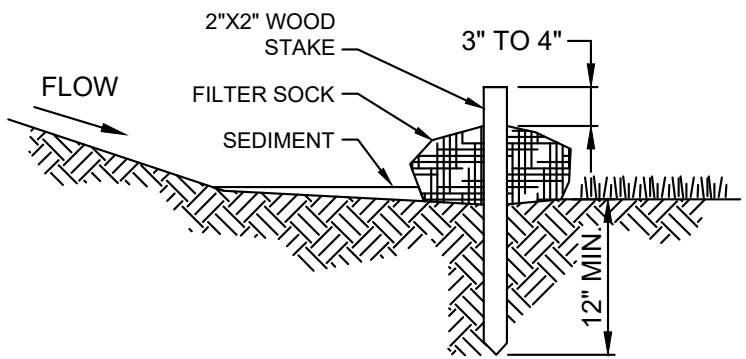
- NOTES:
- THE SEED BED SHALL BE PULVERIZED AND LOOSE TO ENSURE THE SUCCESS OF ESTABLISHING VEGETATION.
 - SOIL AMENDMENTS MAY BE REQUIRED TO ESTABLISH ADEQUATE VEGETATION. PERFORM SOIL TESTS ON THE SITE TO PREDICT THE NEED FOR LIME AND FERTILIZER.
 - APPLY SEED UNIFORMLY. COVER BROADCASTED SEED BY RAKING OR DRAGGING AND THEN LIGHTLY TAMPING INTO PLACE.
 - APPLY MULCHING IMMEDIATELY AFTER SEEDING.
 - SEEDING SHALL BE INSPECTED FOR BARE SPOTS AND WASHOUTS, AND RESEEDED AS NECESSARY.

TEMPORARY SEEDING SPECIES SELECTION			
DATES	SPECIES	LB/1,000 SF	LB/AC.
MARCH 1 TO AUGUST 15	OATS	3	128
	TALL FESCUE	1	40
	PERENNIAL RYEGRASS	1	40
AUGUST 16 TO NOVEMBER 1	PERENNIAL RYEGRASS	2	40
	TALL FESCUE	1	40
	WHEAT	3	112
NOVEMBER 1 TO SPRING	TALL FESCUE	1	40
	PERENNIAL RYEGRASS	1	40
	PERENNIAL RYEGRASS	2	40
	TALL FESCUE	1	40
ONLY MULCH OR DORMANT SEEDING.			

TEMPORARY SEEDING DETAIL
SCALE: NONE



INLET PROTECTION
SCALE: NONE



- NOTES:
- FILTER SOCKS SHALL BE 3 OR 5 MIL CONTINUOUS, TUBULAR, HDPE 3/8" KNITTED MESH NETTING MATERIAL, FILLED WITH COMPOST.
 - COMPOST SHALL BE WEED, PATHOGEN AND INSECT FREE, FREE OF ANY REFUSE, CONTAMINANTS OR OTHER MATERIALS TOXIC TO PLANT GROWTH, BE DERIVED FROM A WELL-DECOMPOSED SOURCE OF ORGANIC MATTER, AND CONSIST OF PARTICLES RANGING FROM 3/8" TO 2".
 - FILTER SOCKS SHALL BE PLACED ON A LEVEL LINE ACROSS SLOPES PARALLEL TO THE BASE OF THE SLOPE.
 - FILTER SOCKS SHALL BE PLACED AT LEAST 5' FROM THE TOE OF SLOPE FOR SEDIMENT DEPOSIT.
 - BUILT UP SEDIMENT SHALL BE REMOVED WHEN IT HAS REACHED 1/3 THE FILTER SOCK HEIGHT.
 - WHEN A FILTER SOCK IS NO LONGER REQUIRED, IT SHALL BE DISPERSED ON-SITE.
 - THE MAXIMUM DRAINAGE AREA PER 100 FEET OF FILTER SOCK IS 1/2 ACRE AND IS DEPENDENT ON THE SLOPE:

MAX. SLOPE LENGTH ABOVE FILTER SOCK					
SLOPE	RATIO (H:V)	8"	12"	18"	24"
0% - 2%	0 - 50:1	125'	250'	300'	350'
2% - 10%	50:1 - 10:1	100'	125'	200'	250'
10% - 20%	10:1 - 5:1	75'	100'	150'	200'

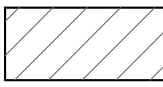
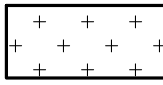
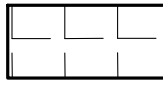
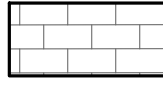
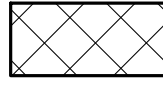
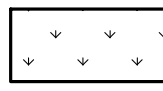
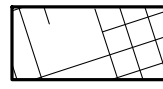
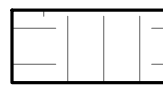
FILTER SOCK DETAIL
SCALE: NONE

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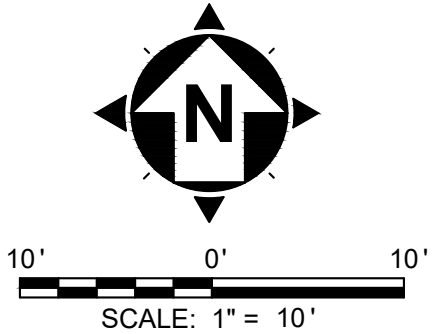
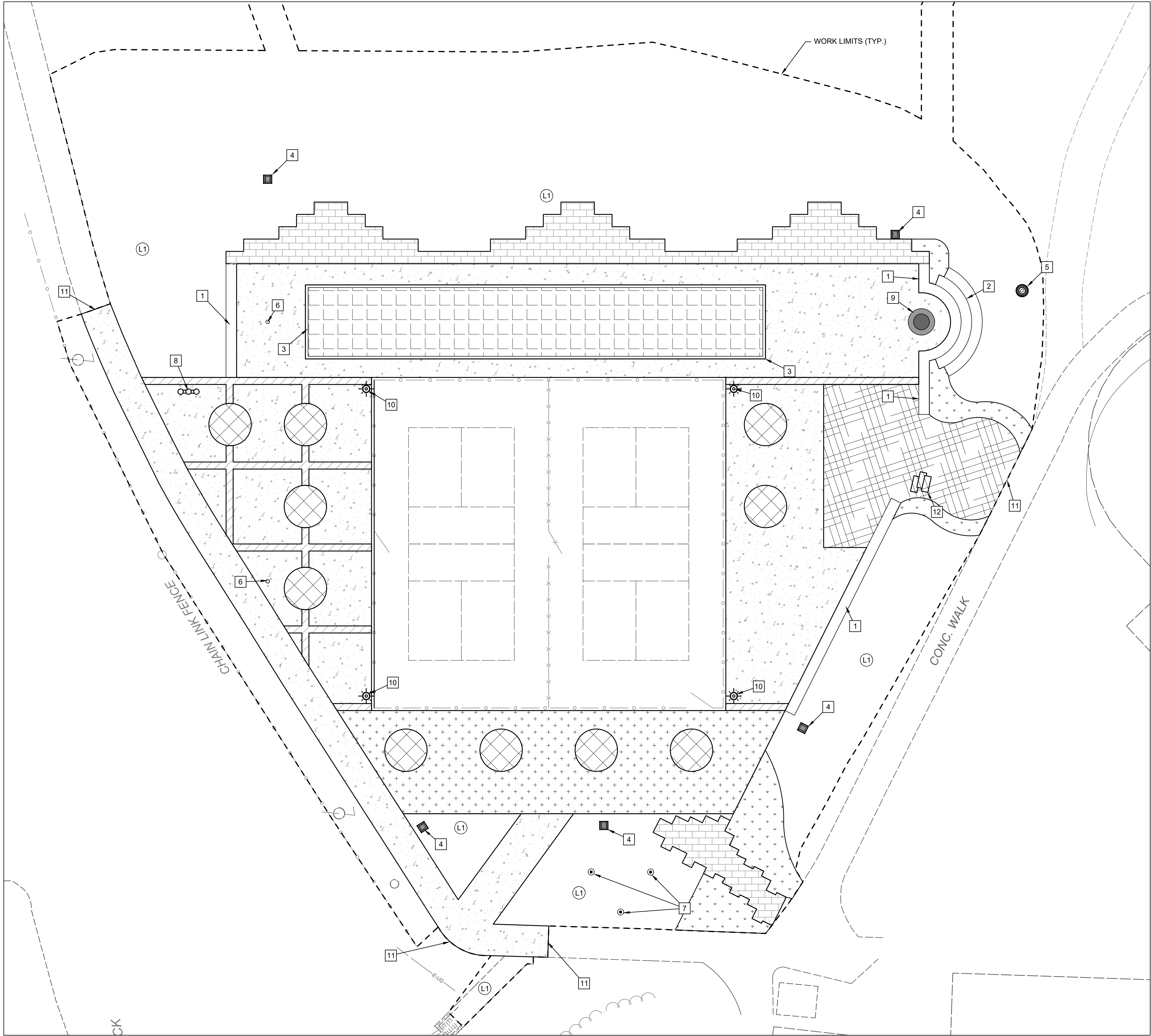
EROSION CONTROL DETAILS

PROJECT NO.	
241829	
DISCIPLINE	
CIVIL	
SHEET NAME	
C6	
SHEET	OF
7	31



	TURNDOWN SIDEWALK REPLACEMENT, REFER TO CONSTRUCTION DETAIL
	5" CONCRETE SIDEWALK, REFER TO CONSTRUCTION DETAIL
	PAVER BAND, REFER TO LANDSCAPE PLANS FOR DETAILS
	SYNTHETIC TURF, REFER TO LANDSCAPE PLANS FOR DETAILS
	BOCCE COURT, REFER TO LANDSCAPE PLANS FOR DETAILS
	PAVERS WITH TURF BAND, REFER TO LANDSCAPE PLANS FOR DETAILS
	TREE WELL, REFER TO LANDSCAPE PLANS FOR DETAILS
	PLANTER AREA, REFER TO LANDSCAPE PLANS FOR DETAILS
	PLAY SYNTHETIC TURF, REFER TO LANDSCAPE PLANS FOR DETAILS
	MULCH RESTORATION, MULCH TO BE PROVIDED BY OWNER

SITE LAYOUT PLAN



GENERAL CONSTRUCTION NOTES

- 1 18" SEAT WALL. SEE ARCHITECTURAL PLANS.
- 2 TERRACED SEAT WALL. SEE ARCHITECTURAL PLANS.
- 3 VERTICAL CURB. REFER TO GRADING & LANDSCAPE PLANS FOR DETAILS.
- 4 STORM INLET. SEE UTILITY PLAN.
- 5 STORM MANHOLE. SEE UTILITY PLAN.
- 6 NYLOPLAST INLET BASIN. SEE UTILITY PLAN.
- 7 INSTALL HAMMOCK POSTS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS (BASES OF DESIGN: GARD & ROCK ANCHORING BASE AND HAMMOCK POST)
- 8 DRINKING FOUNTAIN. REFER TO LANDSCAPING PLANS FOR DETAILS.
- 9 INSTALL FIRE PIT IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. SEE UTILITY PLANS FOR GAS SERVICE ROUTING.
- 10 LIGHT POLE. SEE UTILITY PLANS.
- 11 MATCH EXISTING PAVEMENT.
- 12 6" STONE STEPS. SEE LANDSCAPE PLANS.

LANDSCAPING CONSTRUCTION NOTES

- L1 ALL AREAS NOT NOTED FOR LANDSCAPING OR PAVEMENT SHALL BE RESTORED WITH 6" TOPSOIL, SEED, AND MULCH.

HATCH LEGEND

- TURNDOWN SIDEWALK REPLACEMENT. REFER TO CONSTRUCTION DETAIL
- 5" CONCRETE SIDEWALK. REFER TO CONSTRUCTION DETAIL
- PAVER BAND, REFER TO LANDSCAPE PLANS FOR DETAILS
- SYNTHETIC TURF, REFER TO LANDSCAPE PLANS FOR DETAILS
- BOCCE COURT, REFER TO LANDSCAPE PLANS FOR DETAILS
- PAVERS WITH TURF BAND, REFER TO LANDSCAPE PLANS FOR DETAILS
- TREE WELL, REFER TO LANDSCAPE PLANS FOR DETAILS
- PLANTER AREA, REFER TO LANDSCAPE PLANS FOR DETAILS
- PLAY SYNTHETIC TURF, REFER TO LANDSCAPE PLANS FOR DETAILS
- MULCH RESTORATION, MULCH TO BE PROVIDED BY OWNER

verdantas

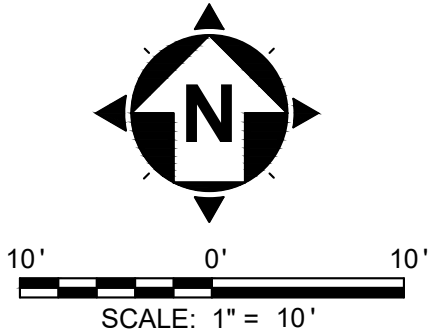
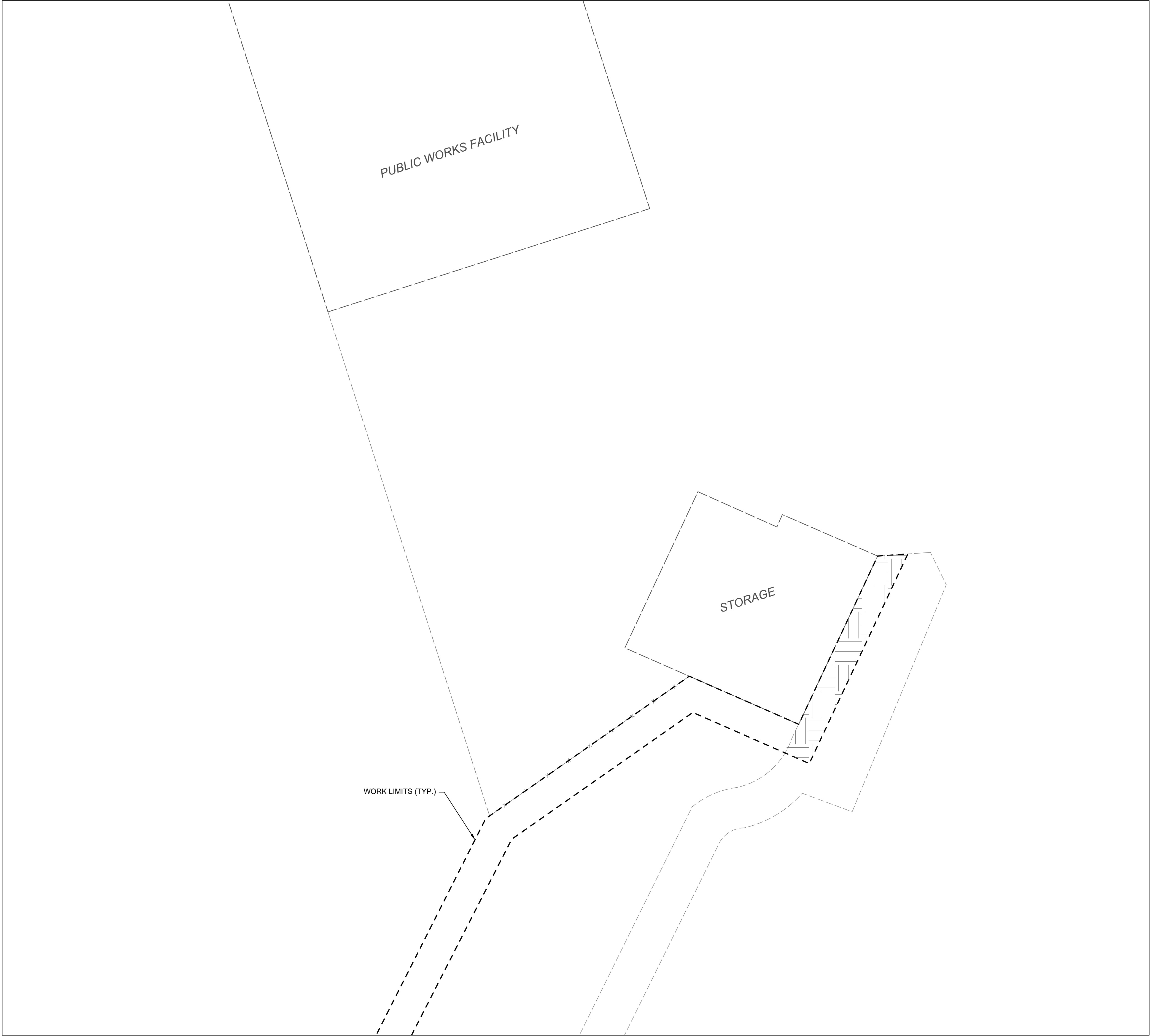
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DRAWN BY:	C.BARRY			
CHECKED BY:	F.TWEHUES			

THE COMMONS AT HIGHLAND HEIGHTS
CENTRAL COMMONS IMPROVEMENTS
HIGHLAND HEIGHTS, KY

SITE LAYOUT PLAN

PROJECT NO.	
241829	
DISCIPLINE	
CIVIL	
SHEET NAME	
C8	
SHEET	OF
9	31





GENERAL CONSTRUCTION NOTES

- 1 18" SEAT WALL. SEE ARCHITECTURAL PLANS.
- 2 TERRACED SEAT WALL. SEE ARCHITECTURAL PLANS.
- 3 VERTICAL CURB. REFER TO GRADING & LANDSCAPE PLANS FOR DETAILS.
- 4 STORM INLET. SEE UTILITY PLAN.
- 5 STORM MANHOLE. SEE UTILITY PLAN.
- 6 NYLOPLAST INLET BASIN. SEE UTILITY PLAN.
- 7 INSTALL HAMMOCK POSTS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS (BASEIS OF DESIGN: GARD & ROCK ANCHORING BASE AND HAMMOCK POST)
- 8 DRINKING FOUNTAIN. REFER TO LANDSCAPING PLANS FOR DETAILS.
- 9 INSTALL FIRE PIT IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. SEE UTILITY PLANS FOR GAS SERVICE ROUTING.
- 10 LIGHT POLE. SEE UTILITY PLANS.
- 11 MATCH EXISTING PAVEMENT.
- 12 6" STONE STEPS. SEE LANDSCAPE PLANS.

LANDSCAPING CONSTRUCTION NOTES

- (L1) ALL AREAS NOT NOTED FOR LANDSCAPING OR PAVEMENT SHALL BE RESTORED WITH 6" TOPSOIL, SEED, AND MULCH.

HATCH LEGEND

- | | |
|--|---|
| | TURNDOWN SIDEWALK REPLACEMENT. REFER TO CONSTRUCTION DETAIL |
| | 5" CONCRETE SIDEWALK. REFER TO CONSTRUCTION DETAIL |
| | PAVER BAND. REFER TO LANDSCAPE PLANS FOR DETAILS |
| | SYNTHETIC TURF. REFER TO LANDSCAPE PLANS FOR DETAILS |
| | BOCCE COURT. REFER TO LANDSCAPE PLANS FOR DETAILS |
| | PAVERS WITH TURF BAND. REFER TO LANDSCAPE PLANS FOR DETAILS |
| | TREE WELL. REFER TO LANDSCAPE PLANS FOR DETAILS |
| | PLANTER AREA. REFER TO LANDSCAPE PLANS FOR DETAILS |
| | PLAY SYNTHETIC TURF. REFER TO LANDSCAPE PLANS FOR DETAILS |
| | MULCH RESTORATION. MULCH TO BE PROVIDED BY OWNER |

verdantas

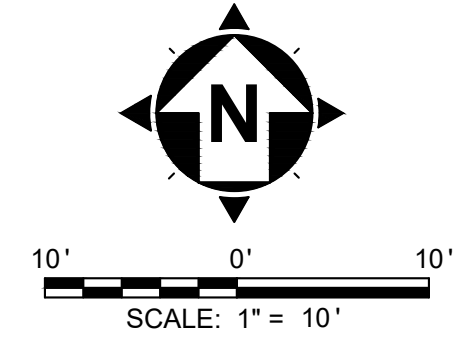
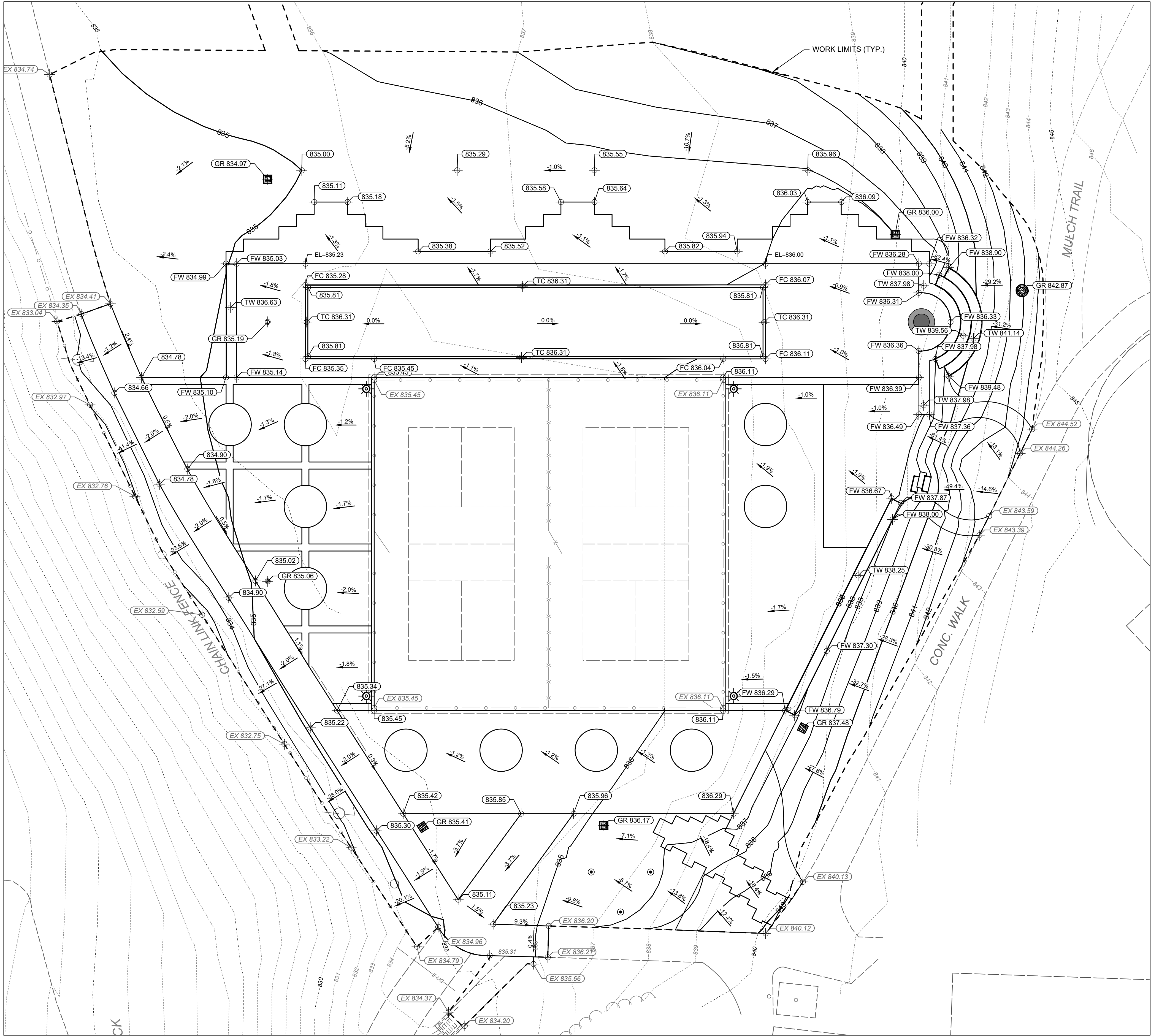
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THE COMMONS AT HIGHLAND HEIGHTS
CENTRAL COMMONS IMPROVEMENTS
HIGHLAND HEIGHTS, KY

SITE LAYOUT PLAN

PROJECT NO. 241829	
DISCIPLINE CIVIL	
SHEET NAME C9	
SHEET 10	OF 31





GRADING LEGEND	
EXISTING SPOT ELEVATION	EX 232.46
PROPOSED SPOT ELEVATION	232.60
PROPOSED SPOT ELEVATION (TRUNCATED)	GR 32.60
PROPOSED SPOT ELEVATION AT TOP/BACK OF CURB	TC 232.60
PROPOSED SPOT ELEVATION AT FACE/BOTTOM OF CURB	FC 232.60
PROPOSED SPOT ELEVATION AT TOP/BACK OF WALL	TW 232.60
PROPOSED SPOT ELEVATION AT FACE/BOTTOM OF WALL	FW 232.60
PROPOSED SPOT ELEVATION AT HIGH POINT	HP 232.60
PROPOSED SPOT ELEVATION AT LOW POINT	LP 232.60
PROPOSED SPOT ELEVATION AT STRUCTURE GRATE	GR 232.60
PROPOSED GRADE LABEL	10.8%
PROPOSED SLOPE LABEL	4:1
PROPOSED GRADE BREAK	GRADE_BREAK
PROPOSED GRADING VALLEY	VALLEY
DIRECTION OF FLOW	



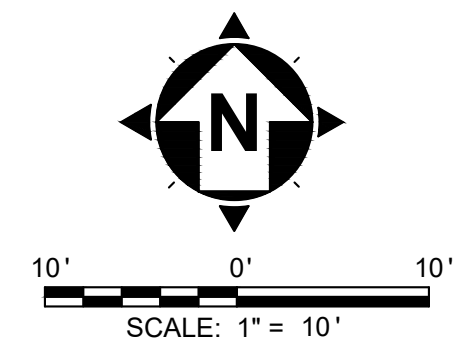
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THE COMMONS AT HIGHLAND HEIGHTS
CENTRAL COMMONS IMPROVEMENTS
HIGHLAND HEIGHTS, KY

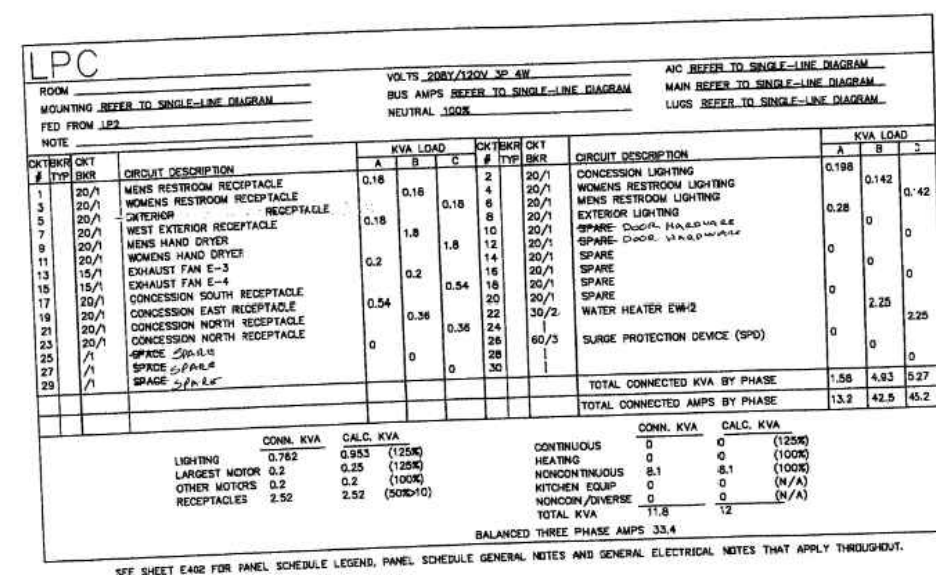
GRADING PLAN

PROJECT NO.	
241829	
DISCIPLINE	
CIVIL	
SHEET NAME	
C10	
SHEET	OF
11	31





PROJECT NO.	
241829	
DISCIPLINE	
CIVIL	
SHEET NAME	
C11	
SHEET	OF
12	31

[illegible]

The diagram illustrates the gas and electrical connections for the fire pit and grill. Key components and their locations are labeled as follows:

- 365 DAY 24HR ELECTRONIC TIMER CONTROL**: Located inside the weatherproof enclosure.
- RECESSED PUSH BUTTON TIMING SWITCH IN WEATHERPROOF ENCLOSURE. SEE ARCHITECTURAL PLANS FOR WALL LOCATION**: Also located inside the enclosure.
- RECESSED MOUNT 18"x12"x8" LOCKABLE STAINLESS STEEL NEMA 4 ENCLOSURE. SEE ARCHITECTURAL PLANS FOR WALL LOCATION**: The main enclosure housing the timer and switch.
- IGNITION MODULE**: Located inside the enclosure.
- 120V AC-24V DC TRANSFORMER**: Located inside the enclosure.
- GAS PRESSURE REGULATOR 2PSI - 11" W.C.**: Mounted on the 1" HDPE gas line.
- NEW GAS METER 200,000 BTU @ 2PSI MOUNTED BESIDES SHED**: The main gas meter for the system.
- 1" BALL VALVE**: Located on the 1" HDPE gas line.
- 2" BALL VALVE**: Located on the 2" HDPE gas line.
- 24V DC FEED IN 1/2" CONDUIT**: Connects the transformer to the fire pit.
- 120V AC FEED IN 1/2" CONDUIT**: Connects the enclosure to the grill.
- 1" HDPE GAS LINE**: The gas supply line for the fire pit.
- 1" HDPE GAS LINE**: The gas supply line for the grill.
- 2" HDPE GAS LINE**: The main gas supply line from the meter.

- NOTE:
- 1. ELECTRONIC TIMER TO AUTOMATICALLY START AT 5PM AND SHUT OFF AT 10PM AND ACCOUNT FOR DAYLIGHT SAVINGS TIME.
 - 2. PUSH BUTTON TIMER SHALL HAVE 5 MIN, 10 MIN, 15MIN, 30MIN AND 60 MIN INCREMENTS AND BE IN A WEATHERPROOF WHILE IN USE COVER.
 - 3. 48" GROUNDING RODS TO BE PROVIDED AT REGULATOR AND NEAR THE WALL FOR PURPOSES OF GROUNDING OUT GAS MAIN.
 - 4. EXACT LOCATIONS OF EQUIPMENT AND CONTROLS TO BE DETERMINED AND APPROVED IN THE FIELD.

365 DAY 24HR ELECTRONIC CONTROL TIMER

GAS TIMER/START DIAL & E-STOP

TRANSFORMER

IGNITION MODULE

24V DC VALVE

24V DC PILOT

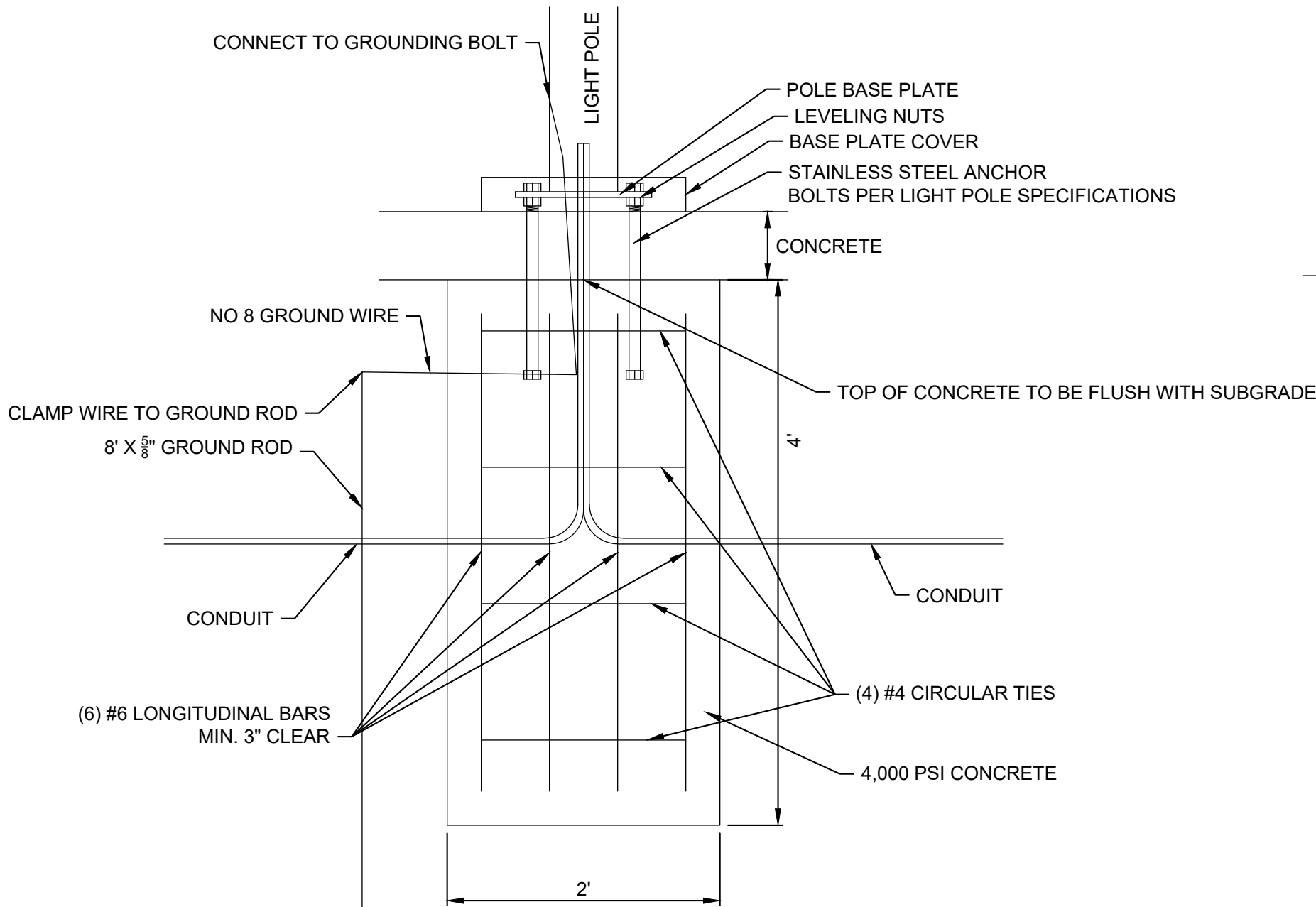
120V AC 10 awg

120V AC 12 awg

120V AC 12 awg

24V DC 18 awg

CONTROL WIRING SCHEMATIC



- NOTE:
1. LIGHT POLE POWER CABLEING TO BE CONNECTED TO CONDUCTORS WITH UNFUSED Y CONNECTOR INSIDE OF POLE.
 2. LIGHT POLE SHALL BE ODESSA 2 MEDIUM CLUSTER POLE BY LIGMAN LIGHTING, MODEL 21021 4X43, 30K, 13' POLE HEIGHT, VERY WIDE BEAM, POLE COLOR BY OWNER.

LIGHT POLE FOOTING DETAIL

<u>GENERAL CONSTRUCTION NOTES</u>	
1	FIRE PIT 24HR ELECTRONIC TIMER CONTROL
2	LIGHT POLE LPC 14
3	3" PVC CONDUIT (3) 10 AWG/CONDUIT
4	18"x18" QUASITE PULL BOX WITH TRAFFIC RATED LID
5	CONNECT TO EXISTING PANEL LCC
6	ON/AUTO/OFF CONTROLLER
7	INSTALL PHOTOTCELL ON ROOF
8	CONNECT TO EX GAS METER
9	2" HDPE GAS LINE
10	GAS REGULATOR
11	GAS FIRE PIT
12	1" HDPE GAS LINE
13	UNDERGROUND ELECTRIC TO BE INSTALLED BENEATH UNDERDRAIN
14	FIRE PIT TIMER AND E-SHUT OFF VALVE CONTROLLER.
15	120V AC-24V DC TRANSFORMER
16	ELECTRONIC GAS VALVE AND IGNITER

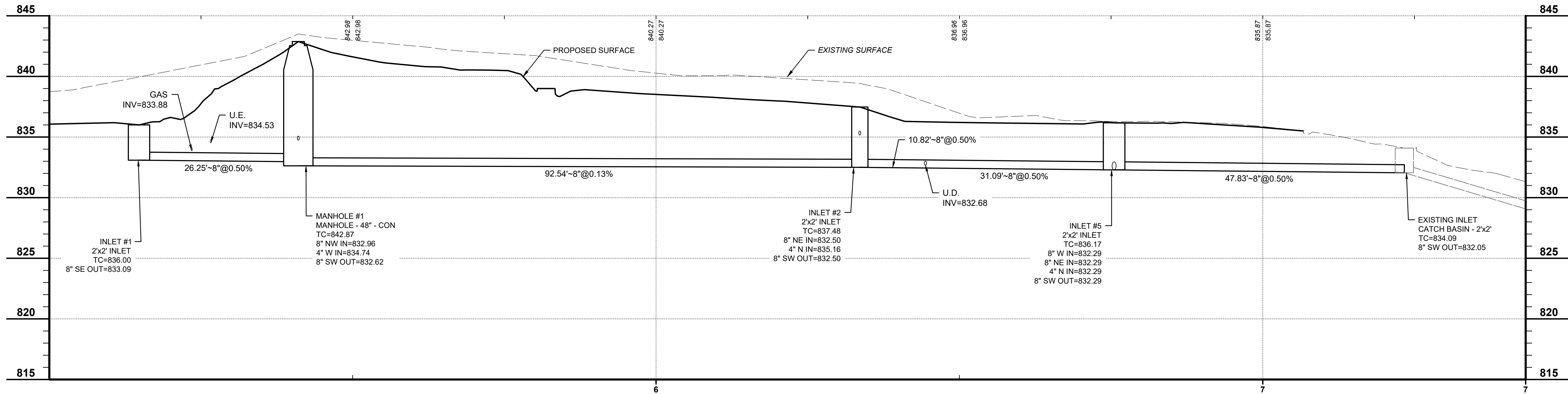
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**THE COMMONS AT HIGHLAND HEIGHTS
CENTRAL COMMONS IMPROVEMENTS**
HIGHLAND HEIGHTS, KY

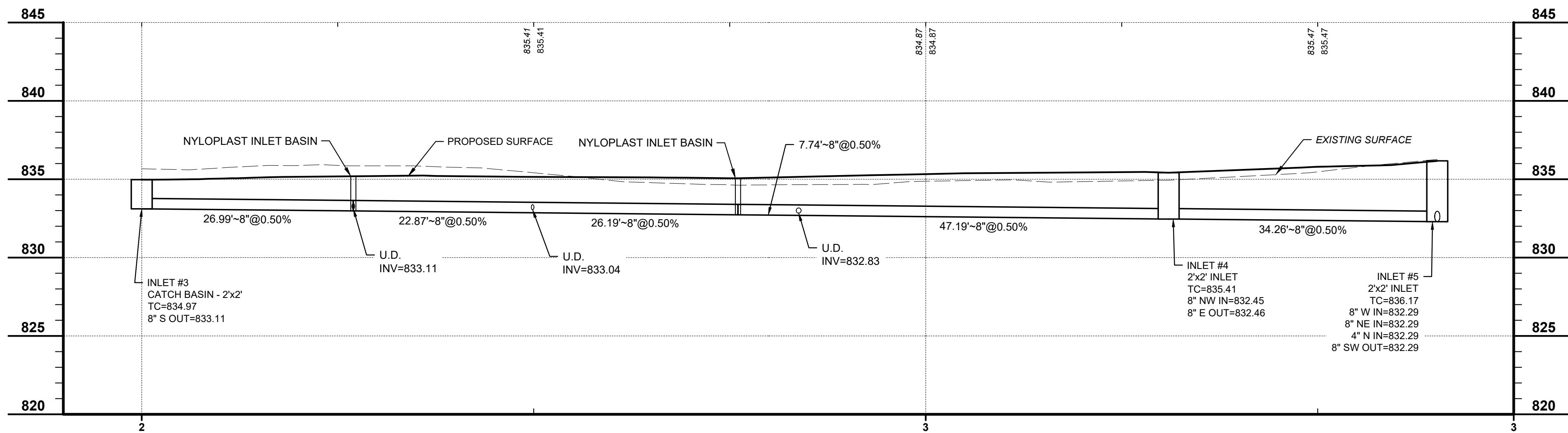
UTILITY PLAN

PROJECT NO.	
241829	
DISCIPLINE	
CIVIL	
SHEET NAME	
C12	
SHEET	OF
13	31





STORM 1 (H10:V5)



STORM 2 (H10:V5)



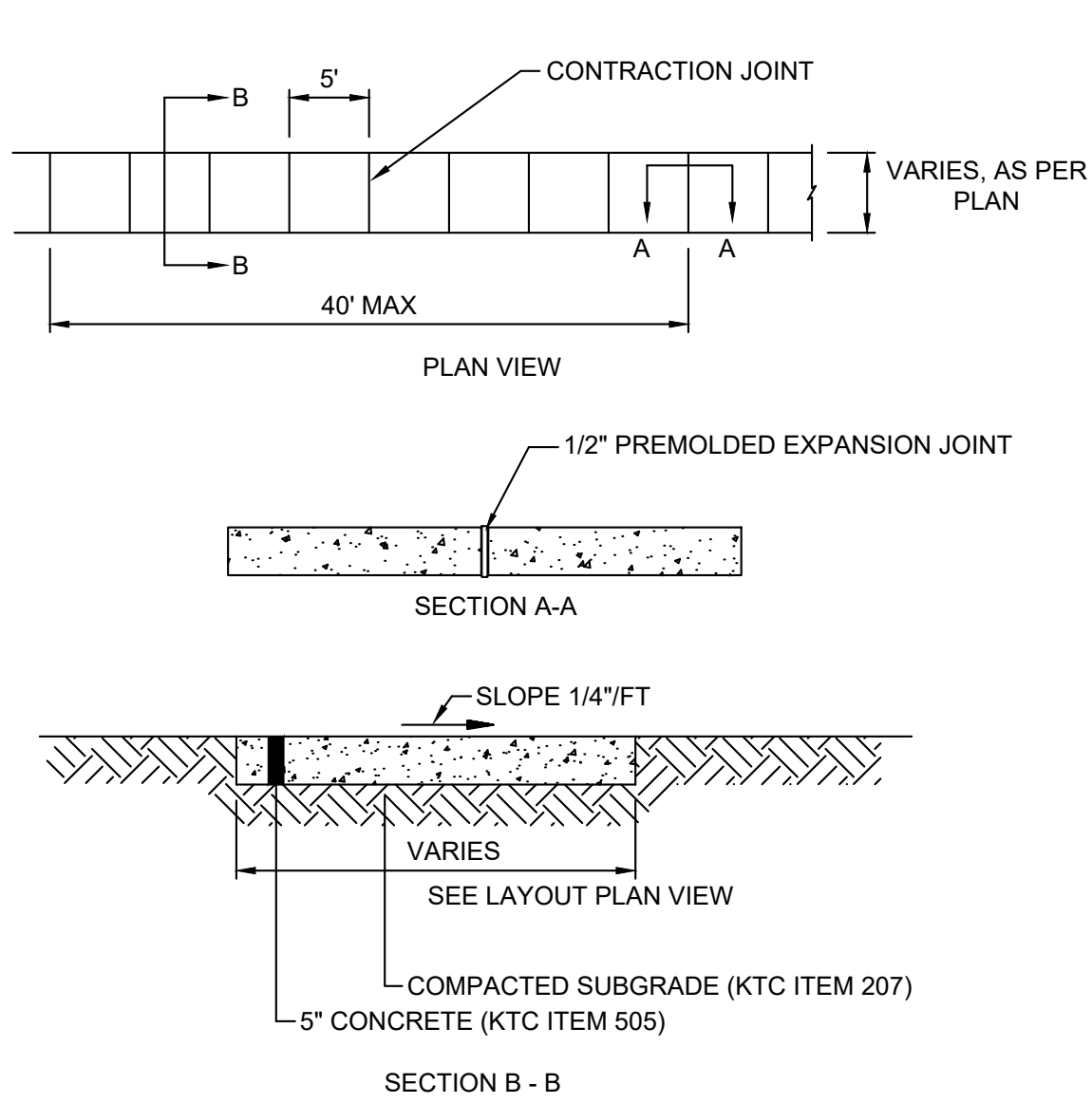
THE COMMONS AT HIGHLAND HEIGHTS
CENTRAL COMMONS IMPROVEMENTS
HIGHLAND HEIGHTS, KY

UTILITY PROFILES

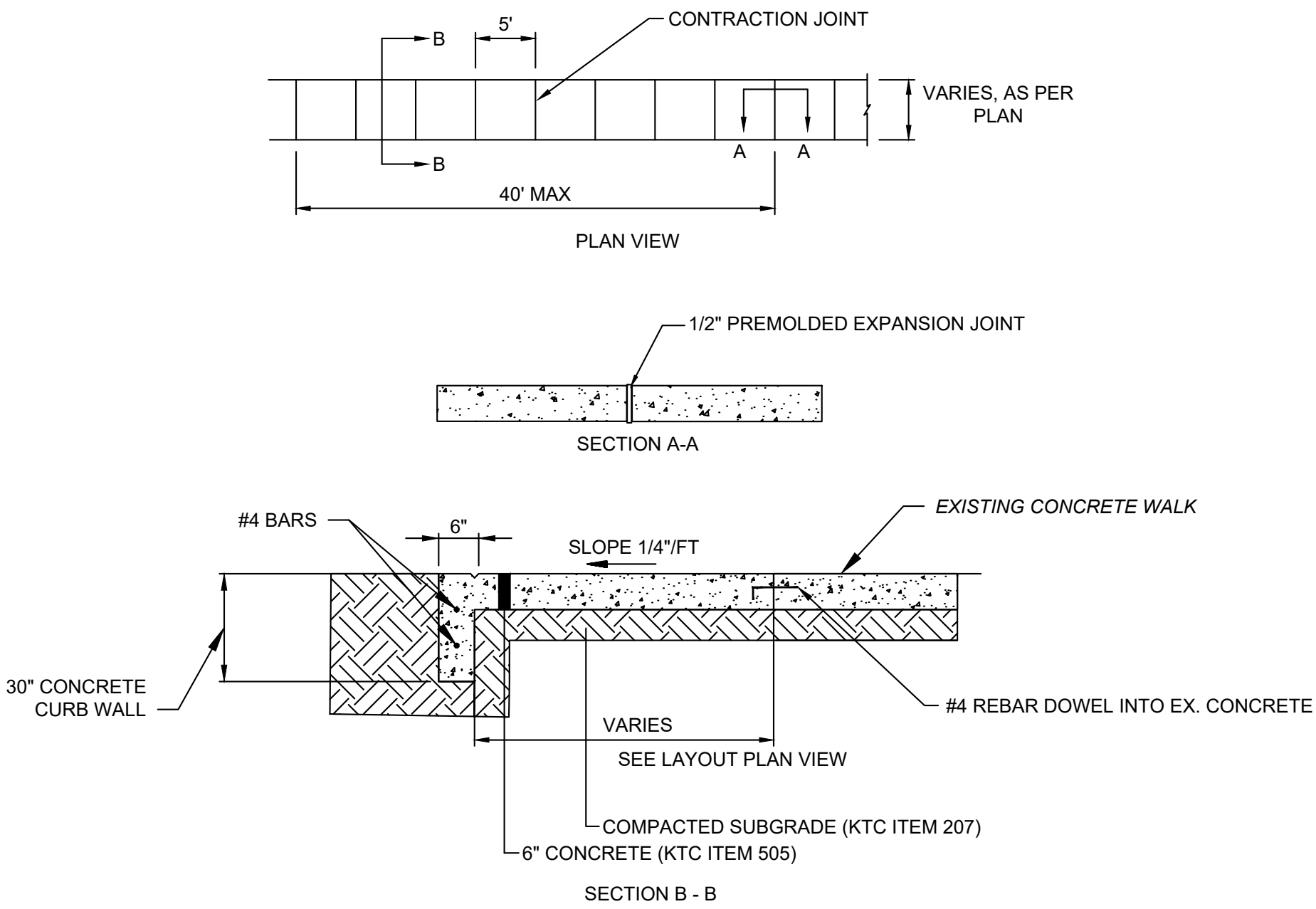
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PROJECT NO.	241829
DISCIPLINE	CIVIL
SHEET NAME	C13
SHEET	14
OF	31

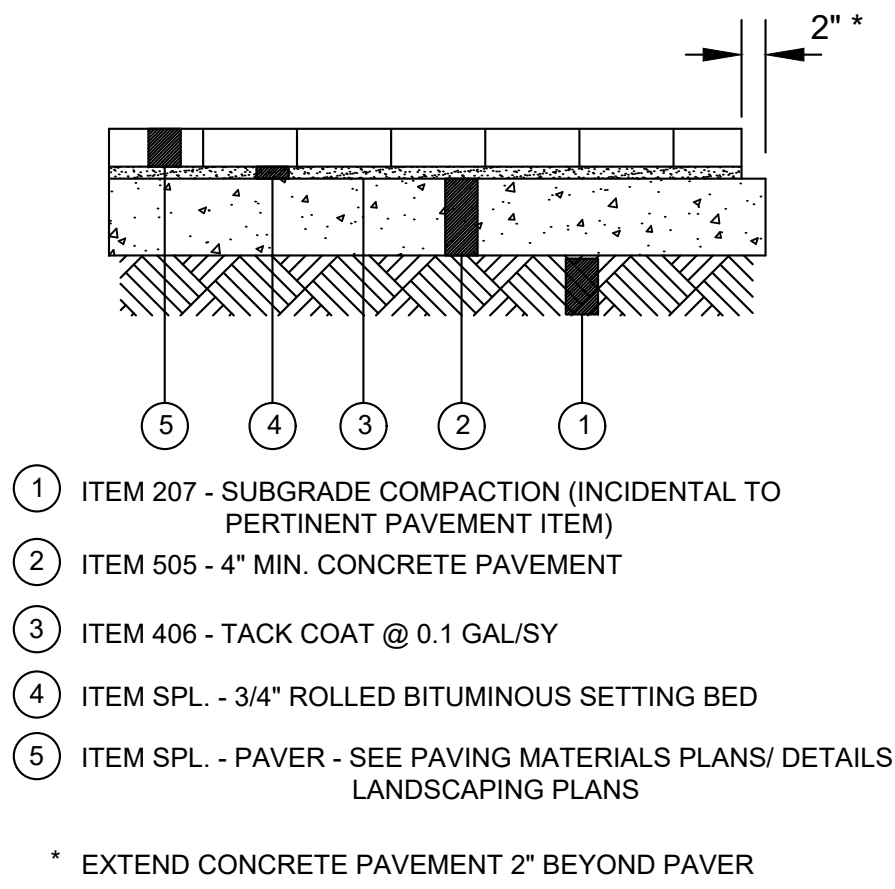




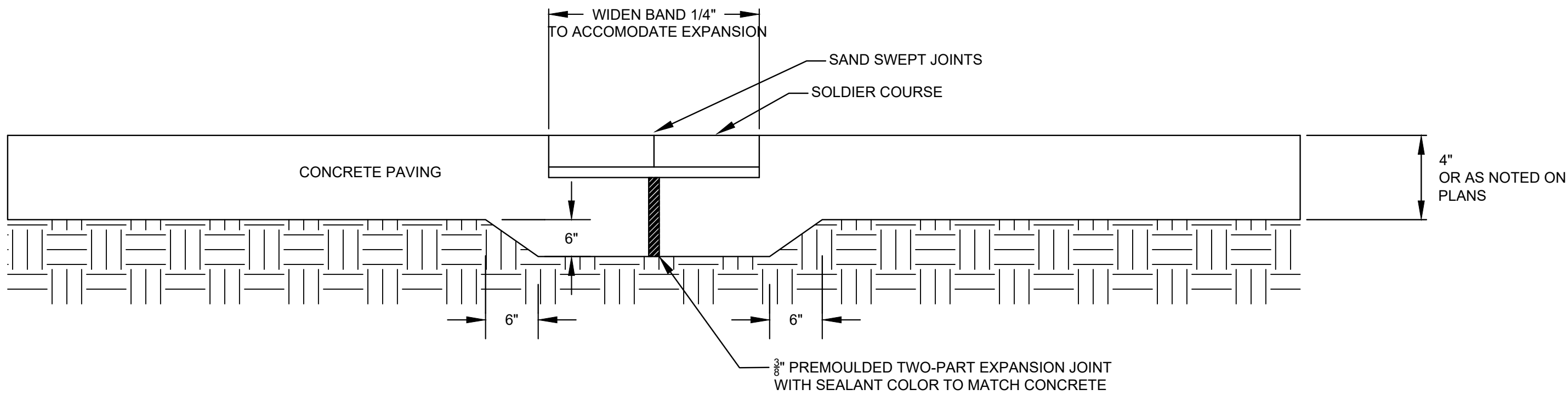
CONCRETE SIDEWALK DETAIL
SCALE: NONE



TURNDOWN SIDEWALK DETAIL
SCALE: NONE



PAVER DETAIL
SCALE: NONE



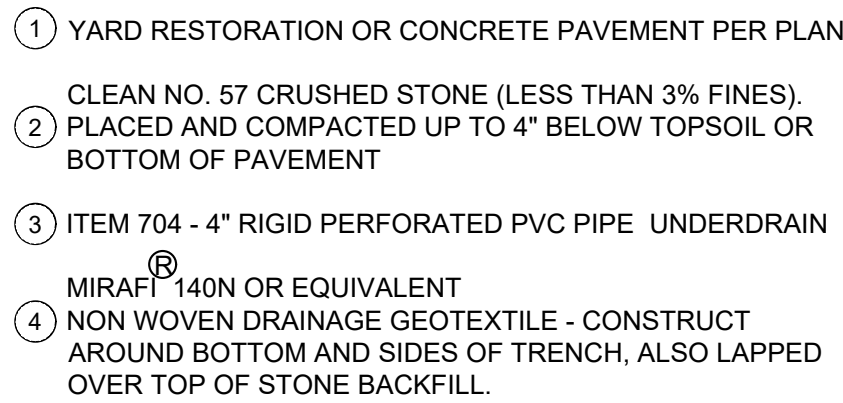
EXPANSION JOINTS UNDER PAVER BANDS
SCALE: NONE

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PROJECT NO. 241829	
DISCIPLINE CIVIL	
SHEET NAME C14	
SHEET 15	OF 31

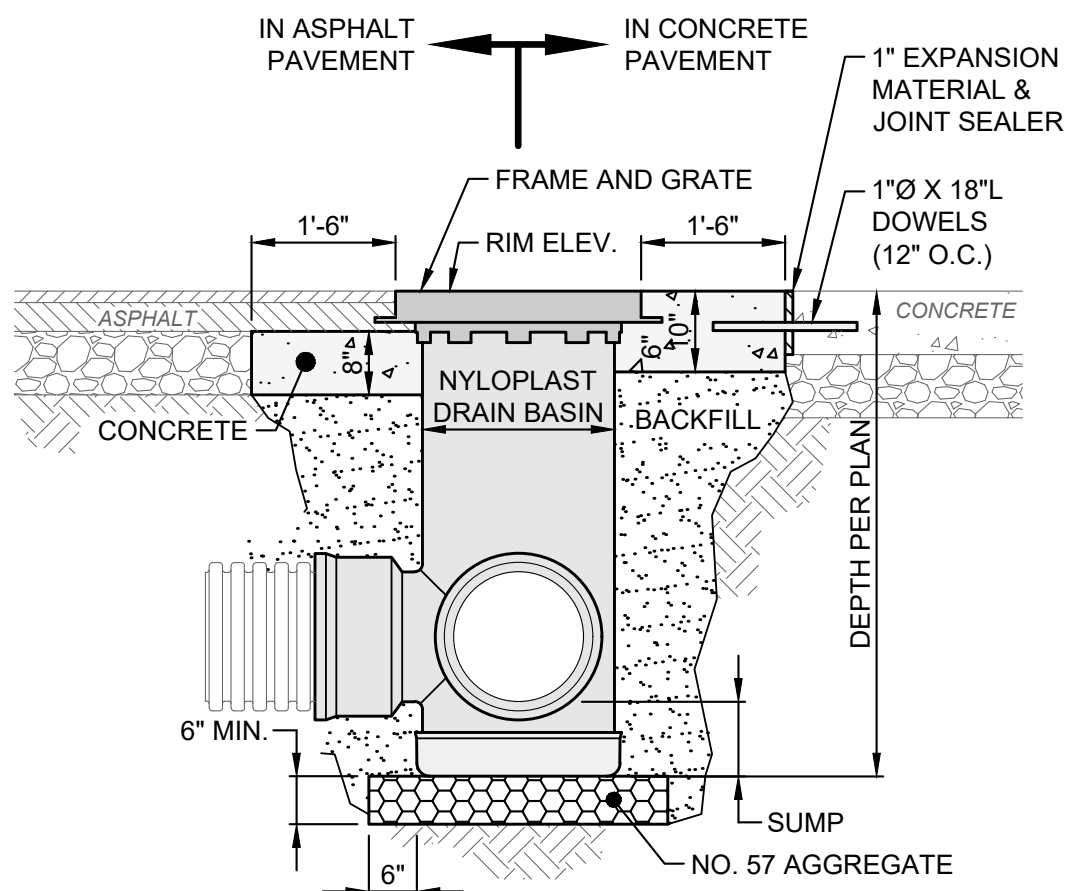


TRENCH DETAIL - YARD OR SIDEWALK
SCALE: NONE



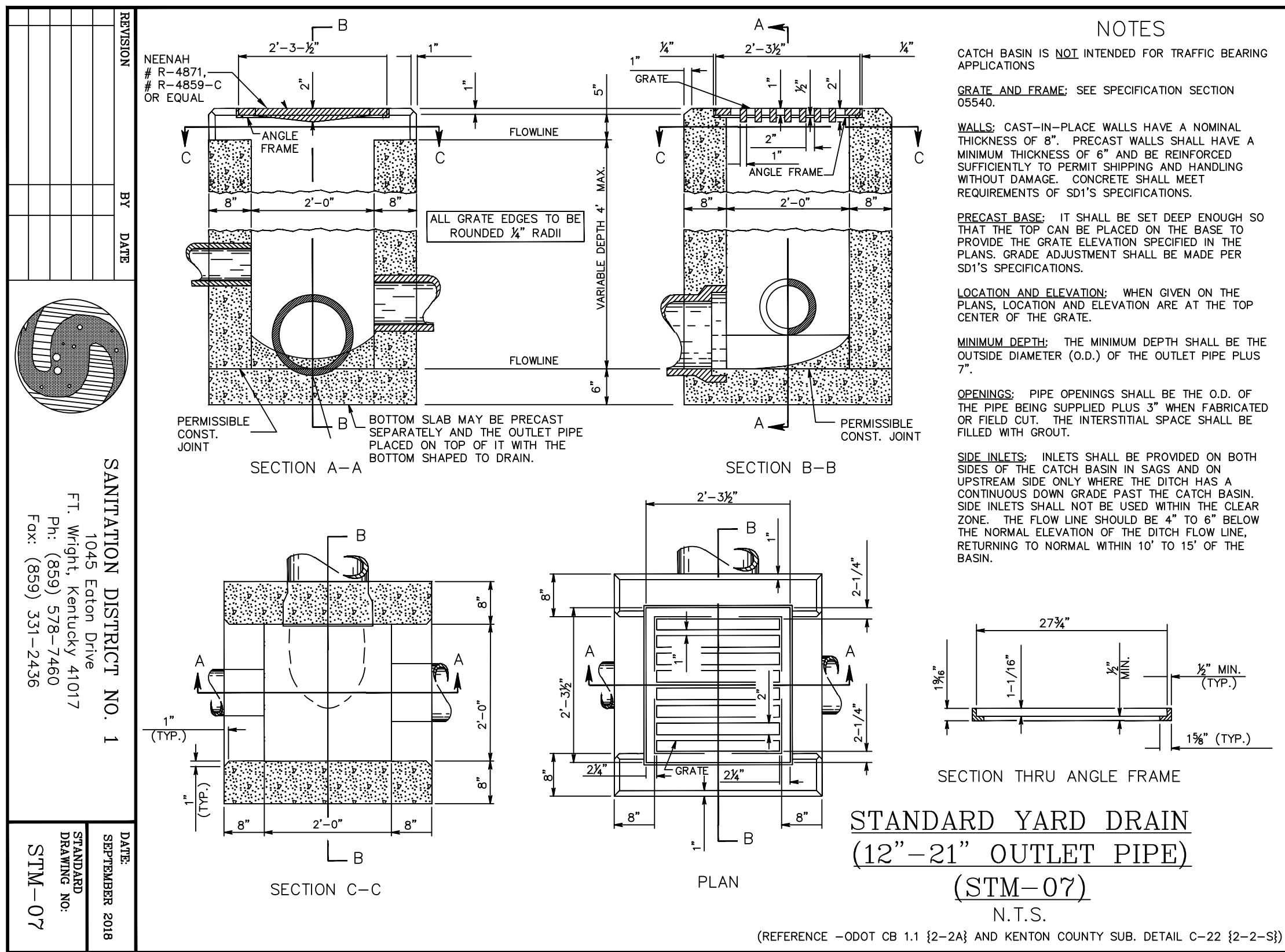
UNDERDRAIN DETAIL

SCALE: NONE

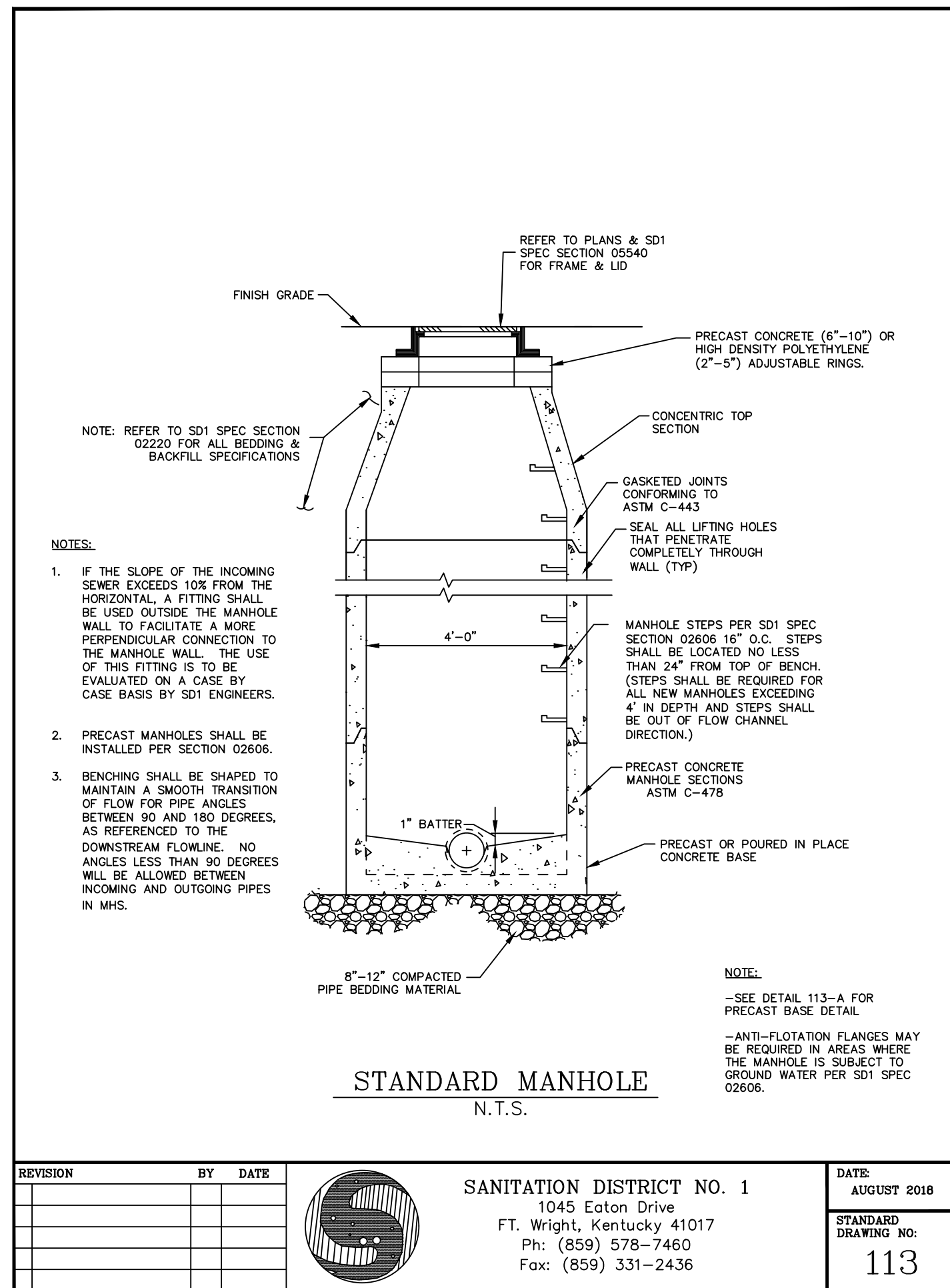


- NOTES:**
1. CONCRETE SHALL BE CLASS QC-1.
 2. STRUCTURE SHALL MEET H-20 LOADING.
 3. FRAME AND GRATE ASSEMBLY SHALL BE ROAD AND HIGHWAY 2'X2', ROAD AND HIGHWAY 2'X3', STEEL BAR 2'X2', STEEL BAR 2'X3', OR AS PER PLAN.
 4. SUMP DEPTH SHALL BE 6" MIN. FOR 8" THRU 24" DIA. BASIN, 10" MIN. FOR 30" DIA. BASIN, OR PER PLAN.
 5. USE APPROPRIATE PIPE ADAPTER FOR TYPE OF PIPE MATERIAL USED FOR WATER TIGHT CONNECTION.

(NYLOPLAST)
INLET BASIN DETAIL
SCALE: NONE



STORM INLET DETAIL
SCALE: NONE



STORM MANHOLE DETAIL
SCALE: NONE

GENERAL:

1. THESE NOTES ARE GENERAL REQUIREMENTS. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS
2. UNLESS SHOWN OR NOTED OTHERWISE ON THE CONTRACT DRAWINGS OR IN THE SPECIFICATIONS, THE FOLLOWING NOTES SHALL APPLY TO THE MATERIALS LISTED HEREINAFTER FOR USE ON THIS PROJECT.
3. IF MATERIALS, QUANTITIES, STRENGTHS OR SIZES INDICATED BY THE DRAWINGS OR SPECIFICATIONS ARE NOT IN AGREEMENT WITH THESE NOTES, THE CONTRACTOR SHALL CONTACT THE ARCHITECT/ENGINEER FOR CLARIFICATION.
4. TYPICAL DETAILS MAY NOT NECESSARILY BE CUT ON THE PLANS, BUT APPLY UNLESS NOTED OTHERWISE.
5. SHOP DRAWINGS PREPARED BY SUPPLIERS AND SUBCONTRACTORS SHALL BE REVIEWED AND APPROVED BY THE GENERAL CONTRACTOR PRIOR TO SUBMISSION TO THE ENGINEER/ARCHITECT.
6. SHOP DRAWINGS PREPARED BY THE CONTRACTORS, SUPPLIERS, ETC., WILL BE REVIEWED BY THE ENGINEER/ARCHITECT ONLY FOR CONFORMANCE WITH DESIGN CONCEPT. NO WORK AFFECTED BY THE SHOP DRAWINGS SHALL BE STARTED WITHOUT SUCH REVIEW.
7. THE GENERAL CONTRACTOR SHALL COORDINATE ALL REVISIONS, CORRECTIONS, AND COMMENTS INDICATED ON THE SHOP DRAWINGS BY THE ARCHITECT/ENGINEER.
8. ALL DIMENSIONS AND ELEVATIONS SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE VERIFIED BY THE CONTRACTOR AND SHALL CONFORM TO THOSE SHOWN ON THE ARCHITECTURAL DRAWINGS.
9. THE STRUCTURAL CONTRACT DOCUMENTS DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND HE SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES. OBSERVATION VISITS TO THE SITE BY THE ENGINEER SHALL NOT INCLUDE INSPECTIONS OF THE PROTECTIVE MEASURES OR THE CONSTRUCTION PROCEDURES.
10. ANY SUPPORT SERVICES PERFORMED BY THE ENGINEER DURING CONSTRUCTION SHALL BE DISTINGUISHED FROM CONTINUOUS AND DETAILED INSPECTION SERVICES WHICH ARE FURNISHED BY OTHERS. THESE SUPPORT SERVICES PERFORMED BY THE ENGINEER ARE SOLELY FOR THE PURPOSE OF ASSISTING IN QUALITY CONTROL AND IN ACHIEVING CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS. THEY DO NOT GUARANTEE CONTRACTOR'S PERFORMANCE AND SHALL NOT BE CONSTRUED AS SUPERVISION OF CONSTRUCTION.
11. ALL STRUCTURES ARE DESIGNED TO BE STABLE AND SELF-SUPPORTING AT THE COMPLETION OF CONSTRUCTION. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE THE ERECTION PROCEDURE AND SEQUENCE TO ENSURE THE STABILITY AND SAFETY OF THE STRUCTURE AND ITS COMPONENT PARTS, AND THE ADEQUACY OF TEMPORARY OR INCOMPLETE CONNECTIONS DURING CONSTRUCTION. THIS INCLUDES, BUT IS NOT LIMITED TO, THE ADDITION OF WHATEVER TEMPORARY BRACING, GUYS OR TIE-DOWNS THAT MAY BE NECESSARY. SUCH MATERIAL IS NOT INDICATED ON THE DRAWINGS AND, IF PROVIDED, SHALL BE REMOVED, AS CONDITIONS PERMIT AND REMAIN THE PROPERTY OF THE CONTRACTOR.
12. ALL MATERIALS AND EQUIPMENT FURNISHED WILL BE NEW AND OF GOOD QUALITY, FREE FROM FAULTS AND DEFECTS AND IN CONFORMANCE WITH THE CONTRACT DOCUMENTS. ALL SUBSTITUTIONS MUST BE PROPERLY APPROVED AND AUTHORIZED PRIOR TO INSTALLATION. THE CONTRACTOR SHALL FURNISH SATISFACTORY EVIDENCE AS TO THE KIND AND QUALITY OF MATERIALS AND EQUIPMENT BEING SUBSTITUTED.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INITIATING, MAINTAINING AND SUPERVISING ALL SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK.
14. COORDINATE WITH THE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR MISCELLANEOUS LINTELS, SIZE AND LOCATION OF FLOOR SLOPES, CHAMFERS, GROOVES, HAND RAILS, ROOF EDGES, INSERTS, ETC.
15. COORDINATE WITH CIVIL, MECHANICAL AND ELECTRICAL DRAWINGS FOR PIPE SLEEVES, FLOOR DRAINS, INSERTS, HANGERS, WALL AND SLAB OPENINGS, CONDUIT RUNS THROUGH WALLS AND SLABS, SIZE AND LOCATION OF MACHINE OR EQUIPMENT SUPPORTS, RAILING, ETC.
16. COORDINATE WITH SITE, ARCHITECTURAL, ELECTRICAL, MECHANICAL, AND CIVIL DRAWINGS FOR RETAINING WALLS, PADS, PAVEMENT AND OTHER SITE STRUCTURES BEYOND THE BUILDING ENVELOPE.
17. EARTHWORK, FOUNDATION DRAINS, WATERPROOFING, PERIMETER INSULATION, MASONRY AND OTHER REQUIRED NON-STRUCTURAL ITEMS ARE NOT SHOWN ON THE STRUCTURAL DRAWINGS. COORDINATE WITH CIVIL/SITE AND ARCHITECTURAL DRAWINGS.

GOVERNING CODES AND STANDARDS:

KENTUCKY BUILDING CODE, 2018 EDITION
ASCE 7 - MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES, 2010 EDITION
ACI 318 - BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE, 2014 EDITION
ACI 301 - SPECIFICATIONS FOR STRUCTURAL CONCRETE, 2010 EDITION
ACI 308R - HOT WEATHER CONCRETING, 2010 EDITION
ACI 308R - COLD WEATHER CONCRETING, 2010 EDITION
ACI SP-66 - ACI DETAILING MANUAL, 2004
ACI 530 - BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES, 2013 EDITION
ACI 530.1 - SPECIFICATIONS FOR MASONRY STRUCTURES, 2013 EDITION

FOUNDATIONS:

1. UNLESS OTHERWISE NOTED BOTTOM OF EXTERIOR FOOTINGS SHALL BE A MINIMUM OF 2'-6" BELOW FINISHED GRADE, STEPPED DOWN AS NECESSARY TO AVOID UTILITY INTERFERENCE
2. REGARDLESS OF ELEVATIONS SHOWN, ALL FOOTINGS SHALL BEAR ON FIRM ORIGINAL SOIL OR LOAD-BEARING FILL. IN THE EVENT THAT FIELD CONDITIONS INDICATE A DEVIATION FROM DESIGN ASSUMPTIONS, THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY.
3. BACKFILL FOR STRUCTURES - KYTC DENSE GRADED AGGREGATE (DGA) OR GRANULAR MATERIAL WITH A MINIMUM INTERNAL FRICTION ANGLE OF 30°, A MINIMUM DENSITY OF 128 PCF AND A MAXIMUM PARTICLE SIZE OF 3".
4. PREPARE SUBGRADE BY VIBRATORY COMPACTION PRIOR TO FINAL GRADING. COMPACT TO AT LEAST 95% OF THE MAXIMUM DRY WEIGHT DENSITY OF THE SUBGRADE MATERIAL, PER ASTM D-1557.
5. PLACE FILL IN LIFTS NOT TO EXCEED 10" LOOSE THICKNESS FOR HEAVY MECHANICAL COMPACTION EQUIPMENT AND 4" FOR MECHANICAL HAND METHODS, COMPACT TO 95% OF THE MAXIMUM DENSITY ACHIEVED PER ASTM D-1557.
6. REMOVE ALL UNSUITABLE MATERIAL OR LOOSE SOIL WHICH CANNOT BE ADEQUATELY COMPACTED AND REPLACE WITH COMPACTED KYTC DENSE GRADED AGGREGATE.
7. FOUNDATIONS ARE DESIGNED TO BEAR ON UNDISTURBED NATURAL SOILS OR PROPERLY COMPACTED ENGINEERED FILL WITH ASSUMED GROSS ALLOWABLE BEARING CAPACITY OF 2500 PSF.
8. 4. SURFACE VEGETATION, TOPSOIL, OTHER ORGANIC MATERIALS, FILL, AND/OR OTHER DELETERIOUS MATERIALS SHALL BE REMOVED FROM BENEATH THE BUILDING AREA, PLUS A MINIMUM OF 5-FEET BEYOND CONSTRUCTION LIMITS. REMOVE AND REPLACED WITH SELECT ENGINEERED FILL PER GEO TECHNICAL REPORT REQUIREMENTS. ALL EXTERIOR FOUNDATIONS SHALL EXTEND TO A MINIMUM OF 36-INCHES (FROST DEPTH) BELOW EXTERIOR GRADE OR TO ACCEPTABLE SOILS, WHICHEVER IS DEEPER. DO NOT PLACE FILL OR CONCRETE ON FROZEN GROUND.
9. OWNER SHALL EMPLOY A SOILS TESTING LABORATORY APPROVED BY THE ENGINEER TO PERFORM TESTING SERVICES AS REQUIRED BY THE SPECIFICATIONS AND TO INSPECT ALL BEARING SURFACES OF SLABS AND FOUNDATIONS. ALL FOOTING EXCAVATIONS SHALL BE INSPECTED BEFORE CONCRETE IS POURED. THE ADEQUACY OF THE SOIL SHALL BE DETERMINED BY PROBING, TAKING HAND AUGER SAMPLES, BY USE OF A SOIL PENETROMETER OR PRE-APPROVED METHODS.
10. NOTIFY ENGINEER IF FOUNDATION CONDITIONS ENCOUNTERED DIFFER FROM SOILS EXPLORATION INFORMATION MADE AVAILABLE TO THE CONTRACTOR.
11. CONTRACTOR SHALL PROVIDE FOR ALL DE-WATERING OF EXCAVATIONS, AND DESIGN / PROVIDE ALL CRIBBING, SHORING, AND BRACING REQUIRED FOR SAFETY AND TO ALLOW CONSTRUCTION OF THE WORK PRESENTED HEREIN. CONTRACTOR SHALL KEEP ALL FREE-STANDING WATER OUT OF EXCAVATIONS. CONTRACTOR SHALL PROVIDE DEWATERING MEASURES AS NECESSARY PRIOR TO PLACING CONCRETE.
12. LOOSE OR SOFT SOIL OR ROCK, DEBRIS, OR EXCESS SURFACE WATER SHOULD BE REMOVED FROM THE FOUNDATION BOTTOMS BEFORE CONCRETE OR REINFORCING STEEL IS PLACE.
13. FOUNDATION CONCRETE SHALL BE PLACED DURING THE SAME DAY EXCAVATION IS MADE. IN THE EVENT FOOTING EXCAVATIONS ARE LEFT OPEN FOR MORE THAN ONE DAY, THEY SHALL BE PROTECTED TO REDUCE EVAPORATION OR ENTRY OF MOISTURE.
14. THE CONTRACTOR IS RESPONSIBLE FOR AND SHALL PROVIDE TEMPORARY SHORING, BRACING, UNDERPINNING, AND OTHER MEASURES NECESSARY TO ENSURE STABILITY AND SAFETY DURING ERECTION AND CONSTRUCTION AND TO PREVENT MOVEMENT OF SOIL THAT COULD DAMAGE EXISTING STRUCTURES, PAVEMENT, UTILITIES, ETC.
15. CENTER FOOTINGS UNDER COLUMNS AND WALLS UNLESS NOTED.
16. UNLESS NOTED OTHERWISE ON THE CIVIL/SITE DRAWINGS, PROVIDE A MINIMUM 2% GRADE WITHIN 10- FEET OF THE PERIMETER OF THE FOUNDATION SYSTEM TO ALLOW SURFACE WATER TO DRAIN AWAY.
17. CONTRACTOR SHALL SECURE AND VERIFY ALL MEASUREMENT AND CONDITIONS AT THE SITE BEFORE PROCEEDING WITH THE WORK. ALL FORMED DIMENSIONS SHALL BE VERIFIED WITH AND CONFORM TO THOSE SHOWN ON THE PROCESS AND SITE PLANS.

CAST-IN-PLACE CONCRETE AND REINFORCEMENT:

1. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH ACI 318.
2. CONCRETE SHALL HAVE THE FOLLOWING 28-DAY COMPRESSIVE STRENGTHS:
CAST-IN-PLACE CONCRETE: 4,500 PSI
FILL CONCRETE: 1,500 PSI
3. USE 6% ±1.5%, ENTRAINED AIR PER ASTM C260 FOR ALL CONCRETE EXPOSED TO WEATHER.
4. ALL REINFORCING STEEL SHALL CONFORM TO ASTM A615 GRADE 60. ALL REINFORCING TO BE WELDED SHALL CONFORM TO ASTM A706.
5. ADMIXTURES SHALL CONTAIN NO MORE THAN 0.05% CHLORIDE IONS BY WEIGHT OF CEMENT WHEN TESTED IN ACCORDANCE WITH AASHTO A706.
6. CONTRACTOR SHALL KEEP A COPY OF "FIELD REFERENCE MANUAL: STANDARD SPECIFICATIONS FOR STRUCTURAL CONCRETE ACI 301 WITH SELECTED ACI REFERENCES", (ACI PUBLICATION SP-15) AT THE PROJECT FIELD OFFICE.
7. ALL REINFORCING DETAILS SHALL CONFORM TO THE ACI DETAILING MANUAL, SP-66, UNLESS DETAILED OTHERWISE ON THE STRUCTURAL DRAWINGS.
8. SUBMIT FOR APPROVAL CONCRETE MIX DESIGN AND CERTIFICATION OF CONCRETE MATERIALS CONFORMING TO THE FOLLOWING EXPOSURE CATEGORIES:

CATEGORY	INTERIOR SLAB-ON-GRADE		FOOTINGS, WALLS, EXTERIOR SLABS
	NON-AIR ENTRAINED CLASS	AIR-ENTRAINED CLASS	
FREEZE AND THAWING	F0	F3	
SULFATE	S1	S1	
IN CONTACT WITH WATER	W1	W1	
CORROSION PROTECTION	C1	C2	
9. THE OWNER SHALL ENGAGE A TESTING LABORATORY APPROVED BY THE ENGINEER/ARCHITECT TO PERFORM THE TESTING SPECIFIED PER PARAGRAPH 1.6.4 OF ACI 301. THE TESTING LABORATORY SHALL MEET THE REQUIREMENTS OF ASTM E329. TESTING SHALL BE MADE BY AN ACI CONCRETE FIELD TESTING TECHNICIAN GRADE 1 OR APPROVED EQUIVALENT. A TECHNICIAN GRADE 1 SHALL BE PRESENT DURING ALL CONCRETE PLACEMENT.
10. SUBMIT SHOP DRAWINGS FOR REVIEW. THESE DRAWINGS SHALL SHOW ALL CONCRETE MEMBER DIMENSIONS AND DOWELS FOR MASONRY WALLS.
11. PROVIDE DOWELS FROM FOUNDATIONS TO MATCH WALL VERTICAL REINFORCING. WHERE SHOWN, PROVIDE DOWELS OUT OF WALLS TO MATCH SLB REINFORCING.
12. PROVIDE CLASS "B" TENSION LAP SPLICE OR FULL MECHANICAL SPLICE (ACI 318, SECT. 12.14.3) FOR ALL VERTICAL STEEL IN WALLS AND SLABS. SEE LAP SCHEDULE ON SHEET SC-102 FOR LAP LENGTHS, ONE.
13. PROVIDE ADEQUATE BOLSTERS, HI-CHAIRS, SUPPORT BARS, ETC., TO MAINTAIN SPECIFIED CLEARANCES FOR THE ENTIRE LENGTH OF ALL REINFORCING BARS. SUPPORTS THAT BEAR DIRECTLY ON EXPOSED SURFACES SHALL BE STAINLESS STEEL.
14. ALL SLABS AND WALLS SHALL BE POURED MONOLITHICALLY, EXCEPT FOR THE REQUIRED CONSTRUCTION JOINTS.
15. PROVIDE 3/4 INCH CHAMFER ON ALL EXPOSED CORNERS OF SLABS AND WALLS UNLESS OTHERWISE INDICATED ON THE ARCHITECTURAL DRAWINGS. MINIMUM CLEARANCES FOR REINFORCING STEEL SHALL BE MAINTAINED.
16. CURE ALL CONCRETE FOR A MINIMUM 7-DAYS. APPLY CURING COMPOUND AT THE MAXIMUM COVERAGE RATE OF 300 SQUARE FEET PER GALLON. USE PRODUCT IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. SEE SPECIFICATIONS.

17. ALL CONSTRUCTION JOINTS SHALL BE KEYS. PROVIDE KEYWAYS AT MEMBER CENTERLINE WITH A DEPTH OF 1-1/2 INCH AND HEIGHT EQUAL TO ONE-THIRD OF THE MEMBERS DEPTH/THICKNESS.
18. CONTRACTOR SHALL SUBMIT PROPOSED LOCATIONS OF CONSTRUCTION JOINTS NOT INDICATED ON THE DRAWINGS FOR REVIEW BY THE ENGINEER/ARCHITECT.
19. ALL ALUMINUM IN CONTACT WITH CONCRETE OR DISSIMILAR METALS SHALL BE COATED WITH GRAY EPOXY PRIMER, APPROVED BY THE ENGINEER.
20. FORMWORK, FOR ALL CONCRETE THAT WILL BE EXPOSED IN THE COMPLETED STRUCTURE, SHALL BE CONSTRUCTED FROM A METAL OR SUITABLE SURFACE PLYWOOD THAT WILL PRODUCE AN ACCEPTABLY SMOOTH SURFACE. SEE SPECIFICATIONS.
21. ALL HORIZONTAL AND VERTICAL PIPE SLEEVE OPENINGS THROUGH BEAMS SHALL BE FORMED WITH STANDARD STEEL PIPE.
22. CONCRETE PROTECTION (CLEAR COVER) FOR REINFORCEMENT BARS SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE:
a. FOUNDATIONS:
• 3 INCHES, BOTTOM AND UNFORMED EDGES
• 2 INCHES, FORMED EDGES
• 2 INCHES, EXPOSED TO EARTH, WATER OR WEATHER
• 2 INCHES, BOTTOM, ON CONCRETE MUDMAT
23. LAP SPLICE WELDED WIRE FABRIC ONE SPACE PLUS 2 INCHES AT EDGES AND ENDS AND PROVIDE ADDITIONAL REINFORCING WHERE SHOWN ON DRAWINGS. PLACE MESH 2 INCHES FROM TOP OF SLAB FOR SLABS ON GROUND AND 1 INCH FROM TOP OF SUPPORTED SLABS UNLESS NOTED OTHERWISE.
24. ALL HOOKS SHALL BE ACI STANDARD HOOKS UNLESS DIMENSIONED OTHERWISE.

CONCRETE MASONRY:

1. MASONRY IS SUPPORTED IN THE COMPLETED CONSTRUCTION. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR SUPPORTING THE MASONRY DURING CONSTRUCTION IN CONFORMANCE WITH LOCAL, STATE AND NATIONAL LAWS AND AS REQUIRED.
2. MASONRY CONSTRUCTION AND MATERIAL SHALL CONFORM TO ALL REQUIREMENTS OF "SPECIFICATIONS FOR MASONRY STRUCTURES" (ACI 530.1/ASCE 6) EXCEPT AS MODIFIED IN THE SPECIFICATIONS AND BELOW. A COPY OF ACI 530.1/ASCE 6 SHALL BE ON THE JOB SITE AT ALL TIMES THAT MASONRY WORK IS BEING PERFORMED.
3. SUBMIT FOR REVIEW, PRIOR TO CONSTRUCTION, SHOP DRAWINGS SHOWING A PLAN AND ELEVATION VIEW OF ALL CMU WALL, AND A PLAN THAT SHOWS ALL DOWELS REQUIRED FOR VERTICAL CMU REINFORCING THAT EXTEND OUT OF CONCRETE. SHOW WALL THICKNESS, AND DIMENSION WALL LENGTH AND LOCATION, SHOWING TOP ELEVATIONS OF WALLS, BOND BEAMS AND GROUT POURS. SHOW LOCATION OF CONTROL JOINT LOCATIONS, SOLID UNITS, CELLS TO BE GROUT FILLED, OPENING, LINTEL, JOINT REINFORCEMENT, REINFORCING BAR AND EMBEDMENT.
4. SUBMIT FOR REVIEW, PRIOR TO CONSTRUCTION, DOCUMENTATION FOR THE BLOCK, MORTAR, GROUT, ADMIXTURES, REINFORCING, BAR POSITIONER AND OTHER ACCESSORIES PROPOSED FOR USE. SUBMIT A WRITTEN DESCRIPTION OF THE METHOD OF REINFORCEMENT AND GROUT, AND OF GROUT CONSOLIDATION.
5. CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C90, NORMAL WEIGHT.
6. CONCRETE MASONRY UNITS WHICH CONTAIN VERTICAL REINFORCEMENT SHALL BE TWO CORE UNITS AND WITH CORES AND WEBS VERTICALLY ALIGNED.
7. MORTAR FOR CONCRETE MASONRY UNITS SHALL BE NON-AIR ENTRAINED PORTLAND CEMENT-LIME CONFORMING TO ASTM C270, TYPE S. CEMENT IN MORTAR SHALL BE LOW-ALKALI AND NON-STAINING. TYPE N MORTAR AND MASONRY CEMENT SHALL NOT BE USED FOR CMU CONSTRUCTION.
8. ADMIXTURES SHALL NOT BE USED IN THE MORTAR OR GROUT. ANTIFREEZE AND CALCIUM CHLORIDE SHALL NOT BE USED.
9. MINIMUM NET AREA COMPRESSIVE STRENGTH OF CONCRETE MASONRY UNITS SHALL BE:
NET AREA COMPRESSIVE STRENGTH OF ASTM C90 CMU, $f_{cmu} = 2,600$ PSI
NET AREA COMPRESSIVE STRENGTH OF CONCRETE MASONRY, $f_m = 2,250$ PSI
10. COARSE GROUT SHALL CONFORM TO ASTM C476 WITH A MAXIMUM AGGREGATE SIZE OF 3/8" AND A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI.
11. LOAD BEARING CONCRETE BLOCK WALLS SHALL BE REINFORCED VERTICALLY WITH (1) #5 BAR AT 40 INCHES ON CENTER, UNLESS NOTED OTHERWISE. REINFORCING SHALL BE CENTERED IN CELL.
12. PROVIDE (1) #5 VERTICAL BAR AT EVERY CORNER, FIRST CELL AT EACH SIDE OF THE CORNER, EACH SIDE OF CONTROL JOINTS, AND FIRST TWO CELL ADJACENT TO OPENINGS, OPENINGS LARGER THAN 50" SHALL HAVE, AT A MINIMUM, THREE REINFORCED CELL AT EACH END OF THE OPENINGS.
13. VERTICAL REINFORCEMENT SHALL EXTEND THROUGH BOND BEAMS AND TO WITHIN 2 INCHES OF THE TOP OF WALLS. VERTICAL REINFORCEMENT SHALL TERMINATE w/STD 90° HOOK.
14. REINFORCING STEEL SPLICES SHALL BE LAPPED AS INDICATED IN THE MASONRY REINFORCEMENT LAP SCHEDULE ON SHEET SC-102, UNLESS NOTED OTHERWISE.
15. PROVIDE DOWELS INTO CONCRETE WALL BELOW OR FOUNDATION THAT MATCH VERTICAL REINFORCEMENT SIZE AND SPACING. ANCHORAGE OF REINFORCING STEEL INTO CONCRETE SHALL BE 36 BAR DIAMETERS BUT NO LESS THAN 12 INCHES, UNLESS NOTED OTHERWISE.
16. HORIZONTAL JOINT REINFORCING SHALL BE, UNLESS SHOWN OTHERWISE, STANDARD 8 GAGE, LADDER TYPE CONFORMING TO ASTM A951, SPACED VERTICALLY AT 8 INCH ON CENTERS ABOVE AND BELOW OPENINGS FOR THREE CONSECUTIVE COURSES AND AT 16 INCHES ON CENTERS ELSEWHERE. EXTEND REINFORCEMENT 2 FEET BEYOND EACH SIDE OF OPENINGS BUT DO NOT EXTEND THROUGH CONTROL JOINTS. PROVIDE FACTORY FABRICATED "T" AND "L" SHAPED PIECES AT INTERSECTIONS AND CORNERS.
17. JOINT REINFORCEMENT SHALL BE SPLICED BY LAPPING THE LONGITUDINAL WIRES AT LEAST 12 INCHES; THE CROSS-WIRES WITHIN THE LAP SHALL BE REMOVED SO THAT THE LONGITUDINAL WIRES ARE SIDE BY SIDE. ALTERNATELY WHERE JOINT REINFORCING IS NOT REQUIRED IN BETWEEN EACH COURSE, SPLICES MAY BE MADE BY ABUTTING THE ADJACENT SECTIONS OF JOINT REINFORCING AND CENTERING A 48 INCH LENGTH OF JOINT REINFORCING IN THE BED JOINT IMMEDIATELY ABOVE OR BELOW THE BUTT JOINT. SPLICE WITH "T" AND "L" SHAPED PIECES AT INTERSECTIONS AND CORNERS.
18. CONTROL JOINTS SHALL NOT BE LOCATED WITHIN 40" OF AN OPENING. SUBMIT LOCATION, IN WRITTING, TO THE ENGINEER OF CONTROL JOINT LOCATIONS ARE MODIFIED.
19. BOND BEAMS SHALL BE PROVIDED IN EACH WALL AT TOP OF WALL. FILL BOND BEAMS WITH GROUT. REINFORCE BOND BEAMS WITH (2) #5. UNLESS NOTED OTHERWISE, PROVIDE CORNER BARS WITH 2'-0" LEGS AND BAR SUPPORTS TO OBTAIN THE REQUIRED CLEARANCE. PROVIDE A BOND BEAM WITH (1) #5 AT 8' ABOVE FINISHED FLOOR, ALIGN WITH PERSONNEL DOOR HEADER ELEVATION.
20. BOND BEAM REINFORCEMENT AND GROUT AT WALL CONTROL JOINTS SHALL BE CONTINUOUS. PROVIDE A DUMMY CONTROL JOINT IN BOTH FACES OF BOND BEAM ALIGNED WITH WALL CONTROL JOINTS. THE BLOCK FACE SHELLS AT DUMMY CONTROL JOINTS SHALL BE FREE OF MORTAR AND GROUT. THE DUMMY CONTROL JOINT IN EXPOSED FACES SHALL HAVE BACKING ROD AND CAULK SEAL AS REQUIRED FOR THE CONTROL JOINT.

21. VERTICAL CONTROL JOINTS IN CONCRETE MASONRY WALLS SHALL BE PROVIDED WHERE SHOWN ON THE PLANS AND AS GIVEN BELOW:
a. AT 25 FEET OR LESS ON CENTERS BUT NOT MORE THAN 1 1/2 TIMES THE WALL HEIGHT
b. AT A DISTANCE NOT OVER ONE-HALF THE ABOVE SPACING FROM BONDED INTERSECTIONS OR CORNERS.
c. AT ONE END OF A LINTEL FOR WALL OPENINGS SIX FEET OR LESS IN WIDTH
d. AT BOTH ENDS OF LINTELS FOR OPENINGS MORE THAN SIX FEET WIDE
e. ALL ABRUPT CHANGES IN WALL HEIGHT.
f. AT ALL CHANGES IN WALL THICKNESS, SUCH AS THOSE AT PIPE AND DUCT CHASES.
g. ABOVE JOINTS IN FOUNDATIONS AND FLOORS.
h. BELOW JOINTS IN ROOFS THAT BEAR IN THE WALL.
i. WHERE SHOWN IN THE MASONRY VENEER.
22. CONTROL JOINTS SHALL NOT OCCUR AT WALL CORNERS, INTERSECTIONS, ENDS, WITHIN 2'-0" OF CONCENTRATED POINTS OF BEARING, OR JAMBS OVER OPENINGS UNLESS SPECIFICALLY SHOWN ON THE STRUCTURAL DRAWINGS.
23. MASONRY BELOW GRADE SHALL BE GROUTED SOLID.
24. MECHANICALLY VIBRATE GROUT IN VERTICAL SPACES IMMEDIATELY AFTER POURING AND AGAIN MINUTES LATER.
25. PROVIDE CLEANOUTS IF GROUT LIFT EXCEEDS 4'-0" IN BLOCK WALLS. MAXIMUM GROUT LIFT SHALL BE 8'-0".
26. SEE VENEER ANCHORAGE NOTES FOR ATTACHMENT OF VENEER TO BLOCK WALLS.

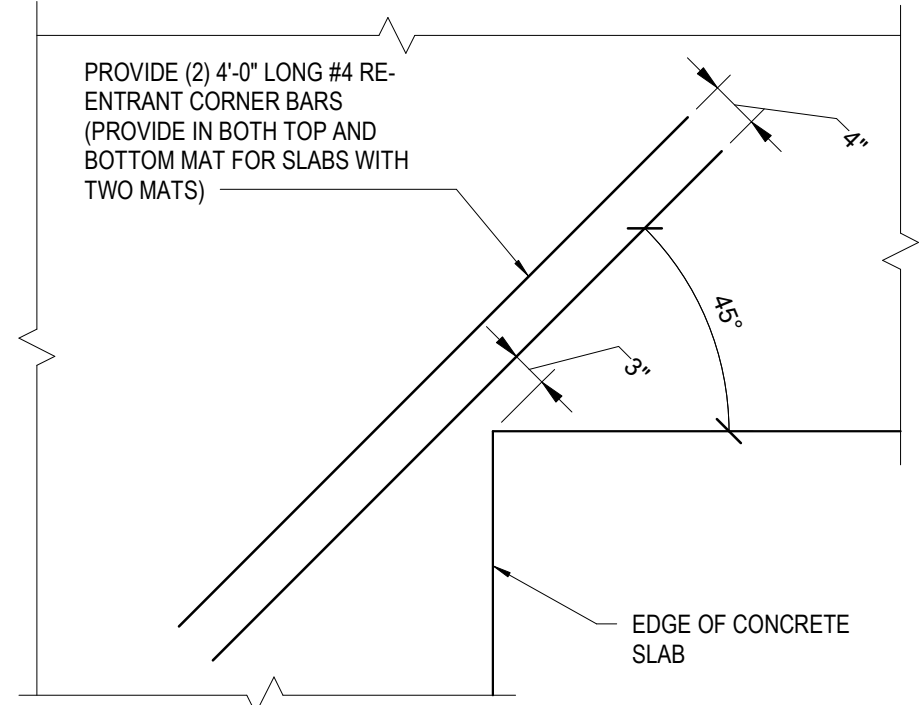
STRUCTURAL DRAWING ABBREVIATIONS

ADDL	ADDITIONAL	L	ANGLE
ADJ	ADJACENT	LBS	POUNDS
AESS	ARCH EXPOSED STRUCTURAL STEEL	LF	LINEAL FEET
ALT	ALTERNATE	LG	LONG
&	AND	LL	LIVE LOAD
APPROX	APPROXIMATELY	LLH	LONG LEG HORIZONTAL
ARCH	ARCHITECT or ARCHITECTURAL	LLV	LONG LEG VERTICAL
@	AT or SPACING	LOC	LOCATION
		LONG	LONGITUDINAL
B/	BOTTOM OF	LP	LOW POINT
BL	BUILDING LINE	LSH	LONG SIDE HORIZONTAL
BLDG	BUILDING	LSV	LONG SIDE VERTICAL
BLKG	BLOCKING	LT WT	LIGHT WEIGHT
BM	BEAM		
BRDG	BRIDGING	MANUF	MANUFACTURER
BRG	BRACING	MAS	MASONRY
BTWN	BETWEEN	MATL	MATERIAL
BOT	BOTTOM	MAX	MAXIMUM
		MECH	MECHANICAL
		MEZZ	MEZZANINE
CANT	CANTILEVER	MFR	MANUFACTURER
CL	CENTERLINE	MIN	MINIMUM
CLR	CLEAR	MISC	MISCELLANEOUS
CLSM	CONTROLLED LOW STRENGTH MATERIAL	MK	MARK
CTR	CENTER	MO	MASONRY OPENING
COL	COLUMN	MTL	METAL
CONC	CONCRETE		
CONN	CONNECTION	NO or #	NUMBER
CONST	CONSTRUCTION	NOM	NOMINAL
CONT	CONTINUOUS	NS	NEARSIDE
CJ	CONTROL/CONSTRUCTION JOINT	NTS	NOT TO SCALE
CMU	CONCRETE MASONRY UNIT		
CONT	CONTINUOUS	OC	ON CENTER
CUBT	CUBIC FEET	OD	OUTSIDE DIAMETER
CY	CUBIC YARDS	OF	OUTSIDE FACE
		OIO	OUT TO OUT
		OPNG	OPENING
		OPP	OPPOSITE
		PAF	POWDER ACTUATED FASTENERS
		PAR	PARALLEL
		PC	PRECAST
		PERP	PERPENDICULAR
		PL	PLATE
		PLF	POUNDS PER LINEAL FOOT
		PLYWD	PLY WOOD
		PREFAB	PREFABRICATED
		PSF	POUNDS PER SQUARE FOOT
		PSI	POUNDS PER SQUARE INCH
		PT	POST TENSIONED
		PTFE	POLYTETRAFLUOROETHYLENE
		QLR	PRESSURE TREATED
EA	EACH		
EF	EACH FACE		
EJ	EXPANSION JOINT	QTY	QUANTITY
EL	ELEVATION		
ELEC	ELECTRICAL		
EMBED	EMBEDDED, EMBEDMENT	RAD	RADIUS
EQ	EQUAL	REF	REFERENCE
EQUIP	EQUIPMENT	REINF	REINFORCEMENT, REINFORCING, REINFORCED
ES	EACH SIDE	REQD	REQUIRED
EW	EACH WAY		
EX	EXISTING	SCHED	SCHEDULE
EXIST	EXISTING	SECT	SECTION
(E)	EXISTING	SER	STRUCTURAL ENGINEER OF RECORD
EXP	EXPANSION	SF	SQUARE FOOT
EXT	EXTERIOR	SH	SHEET
		SIM	SIMILAR
FAB	FABRICATE	SOG	SLAB-ON-GRADE
FDN	FOUNDATION	SPA	SPACING
FV	FIELD VERIFY	SPEC(S)	SPECIFICATION(S)
FIN	FINISH	SPF	SPRUCE PINE FIR
FLG	FLANGE	SQ	SQUARE
FLR	FLOOR	SS	STAINLESS STEEL
FS	FAKESIDE	STD	STANDARD
FT	FOOT, FEET	STIFF	STIFFENER
FTG	FOOTING	STL	STEEL
		STR	STRUCTURAL
		STRUCT	STRUCTURAL
GAL	GALLON	SUP	SUPPORT
GALV	GALVANIZED	SYM	SYMMETRICAL
GC	GENERAL CONTRACTOR	SYP	SOUTHERN YELLOW PINE
GEN	GENERAL		
GLB	GLUE LAMINATED BEAM	T	TOP
GR	GRADE	T/	TOP OF
GYP BD	GYPSUM BOARD	T&B	TOP AND BOTTOM
		T&G	TONGUE AND GROOVE
		TEMP	TEMPERATURE STEEL
HC	HOLLOW CORE	THD	THREAD
HORIZ	HORIZONTAL	THK	THICK
HP	HIGH POINT	THRU	THROUGH
HS	HIGH STRENGTH	TOL	TOLERANCE
HT	HEIGHT	TRANS	TRANSVERSE
HVY	HEAVY	TYP	TYPICAL
ID	INSIDE DIAMETER	UN or UNO	UNLESS NOTED (OTHERWISE)
IF	INSIDE FACE		
IN	INCH	VERT	VERTICAL
INFO	INFORMATION	VIF	VERIFY IN FIELD
INT	INTERIOR		
INV	INVERT		
		w/	WITH
JST	JOIST	WO	WITHOUT
JT	JOINT	WD	WOOD
		WP	WORKPOINT
K	KIPS	WT	WEIGHT
KSF	KIPS PER SQUARE FOOT	WWF	WELDED WIRE FABRIC
KSI	KIPS PER SQUARE INCH		

THE COMMONS AT HIGHLAND HEIGHTS
CENTRAL COMMONS IMPROVEMENTS
HIGHLAND HEIGHTS, KY

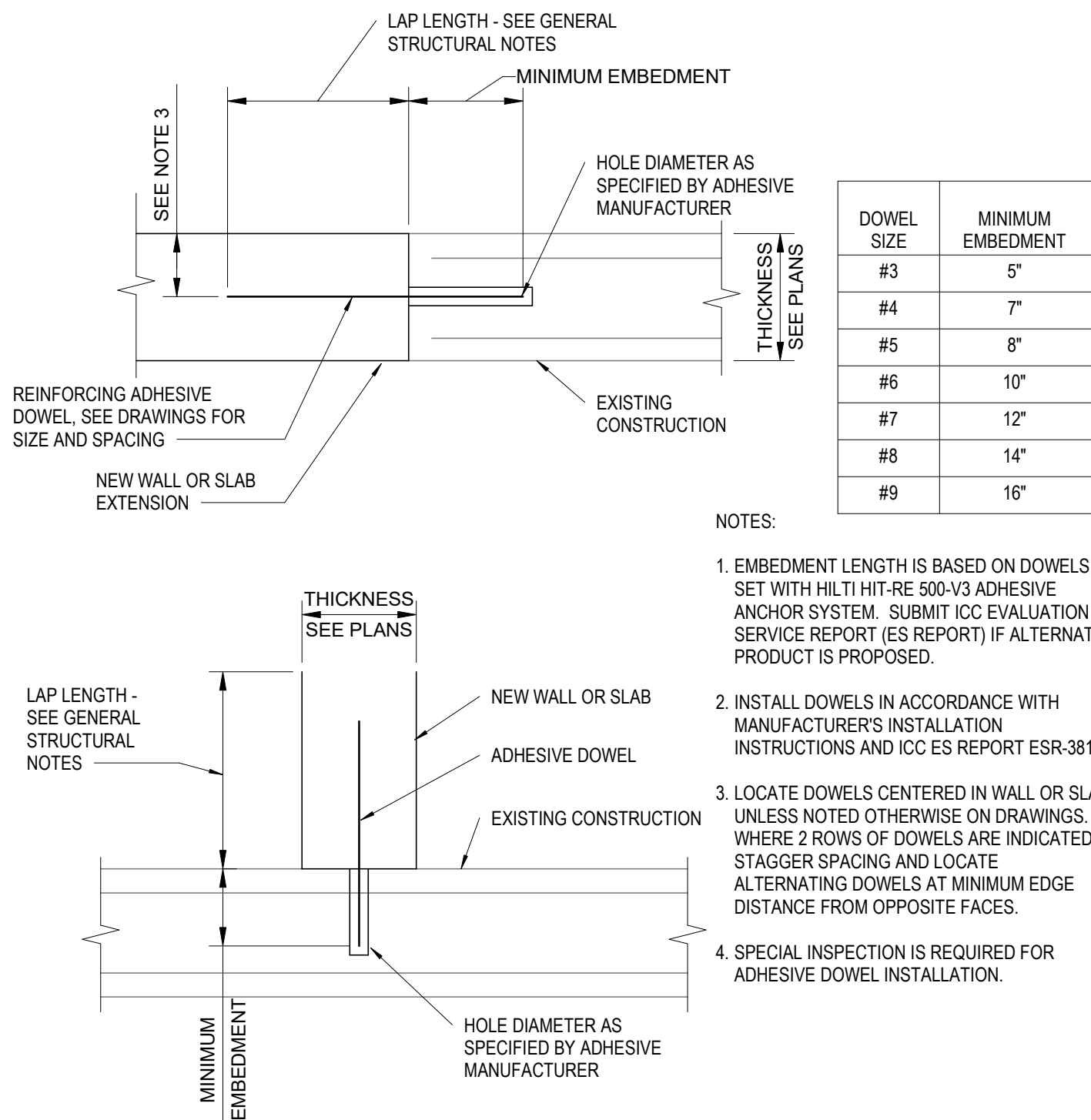
GENERAL NOTES

PROJECT NO.
241829
DISCIPLINE
STRUCTURAL
SHEET NAME
SC101
SHEET
17
OF
31



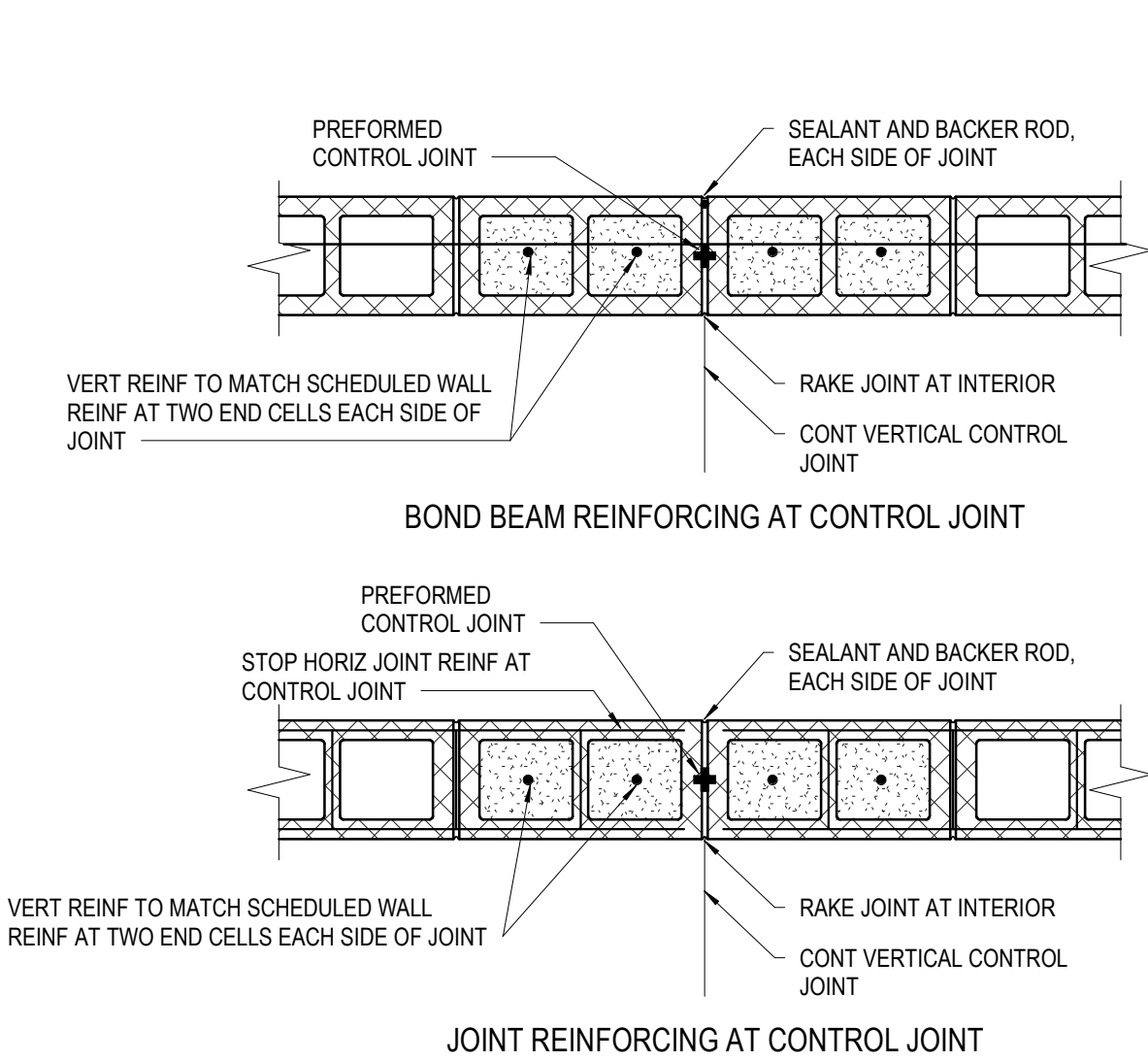
NOTE: ADDITIONAL REINFORCEMENT SHALL BE PLACED AT ALL INSIDE (RE-ENTRANT) CORNERS IN SLABS WHERE CRACK CONTROL JOINTS ARE NOT POSITIONED TO INTERSECT THE CORNER. PRIMARY REINFORCEMENT NOT SHOWN FOR CLARITY

5 TYPICAL RE-ENTRANT CORNER DETAIL
SCALE: 3/4" = 1'-0"



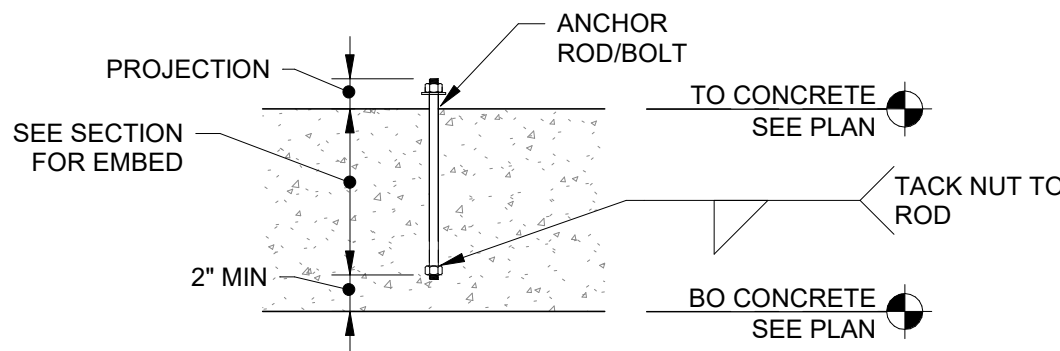
- NOTES:
1. EMBEDMENT LENGTH IS BASED ON DOWELS SET WITH HILTI HIT-RE 500-V3 ADHESIVE ANCHOR SYSTEM. SUBMIT ICC EVALUATION SERVICE REPORT (ES REPORT) IF ALTERNATE PRODUCT IS PROPOSED.
 2. INSTALL DOWELS IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS AND ICC ES REPORT ESR-3814.
 3. LOCATE DOWELS CENTERED IN WALL OR SLAB UNLESS NOTED OTHERWISE ON DRAWINGS. WHERE 2 ROWS OF DOWELS ARE INDICATED, STAGGER SPACING AND LOCATE ALTERNATING DOWELS AT MINIMUM EDGE DISTANCE FROM OPPOSITE FACES.
 4. SPECIAL INSPECTION IS REQUIRED FOR ADHESIVE DOWEL INSTALLATION.

6 REBAR DOWELS SET WITH ADHESIVE
SCALE: 12" = 1'-0"



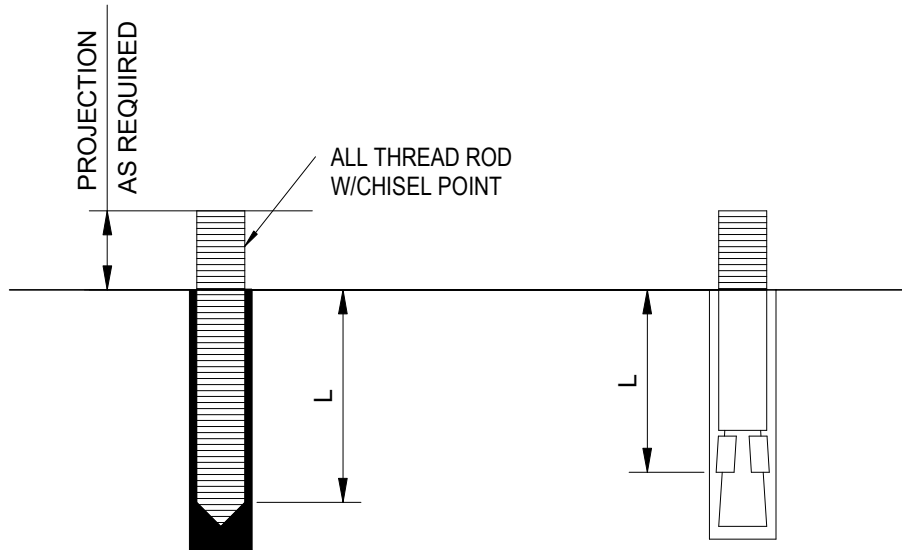
- NOTES:
1. SEE PLAN FOR CONTROL JOINT LOCATIONS
 2. ALL HORIZONTAL BOND BEAM REINFORCING SHALL BE CONTINUOUS ACROSS ALL VERTICAL CONTROL JOINTS

2 MASONRY WALL CONSTRUCTION
SCALE: 1" = 1'-0"



- NOTES:
1. USE HEAD BOLTS OR TACK WELD
 2. COORDINATE PROJECTION WITH EQUIPMENT SUPPLIER UNLESS NOTED OTHERWISE
 3. DO NOT USE 'J' BOLTS. 'J' BOLTS ARE NOT ACCEPTABLE
 4. ANCHOR BOLTS TO BE STAINLESS STEEL UNLESS NOTED OTHERWISE

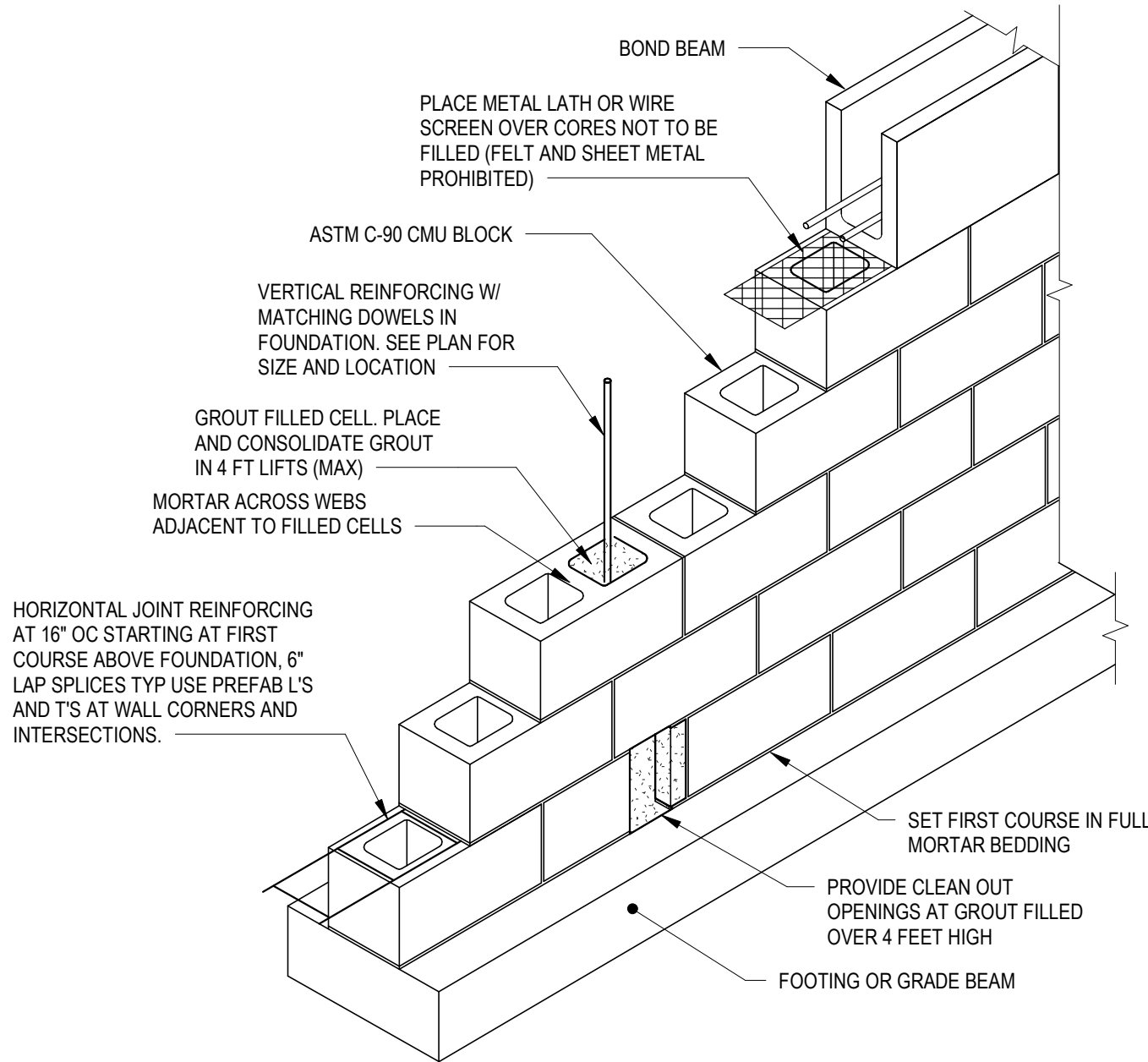
3 ANCHOR BOLT
SCALE: 3/4" = 1'-0"



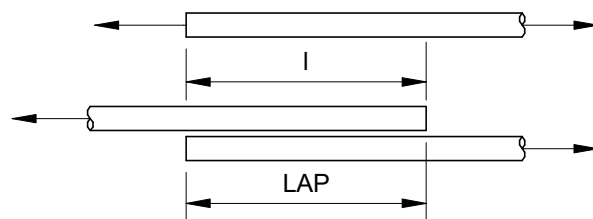
MINIMUM EMBEDMENT LENGTH, L		
DIAMETER	ADHESIVE ANCHOR	EXPANSION ANCHOR
3/8"	4 1/2"	3 1/2"
1/2"	6"	4 3/4"
5/8"	7 1/2"	5 1/2"
3/4"	9"	6 1/2"
7/8"	10 1/2"	-
1"	12"	-

- NOTES:
1. CONFORM TO ICC EVALUATION SERVICE REPORT (ES REPORT) REQUIREMENTS AND MANUFACTURER'S RECOMMENDATIONS FOR INSTALLATION.
 2. PROVIDE TYPE 316 STAINLESS STEEL ALL-THREAD ROD MATERIAL.
 3. PROVIDE HOLE DIAMETER IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION.
 4. EXPANSION ANCHOR EMBEDMENT LENGTHS ARE BASED ON HILTI KWIK BOLT TZ STAINLESS STEEL ANCHORS. SUBMIT ICC EVALUATION SERVICE REPORT (ES REPORT) FOR ALTERNATE PRODUCTS.
 5. ADHESIVE ANCHOR EMBEDMENT LENGTHS ARE BASED ON HILTI HIT-RE 500-V3 ADHESIVE. SUBMIT ICC ES REPORT FOR ALTERNATE PRODUCTS.

4 CONCRETE ANCHORS
SCALE: 12" = 1'-0"



1 CMU WALL CONSTRUCTION
SCALE: 3/4" = 1'-0"



LAP TABLE (f'c = 4,500 PSI)					
BAR SIZE	LAP CLASS	UNCOATED BARS			
		TOP BARS	OTHER BARS		
		CASE 1	CASE 2	CASE 1	CASE 2
#3	A	18	26	14	20
	B	23	34	18	26
#4	A	24	35	18	27
	B	30	46	24	35
#5	A	29	44	23	34
	B	38	57	30	44
#6	A	35	53	27	40
	B	46	68	35	53
#7	A	51	77	39	59
	B	66	99	51	77
#8	A	58	87	45	67
	B	76	114	58	87

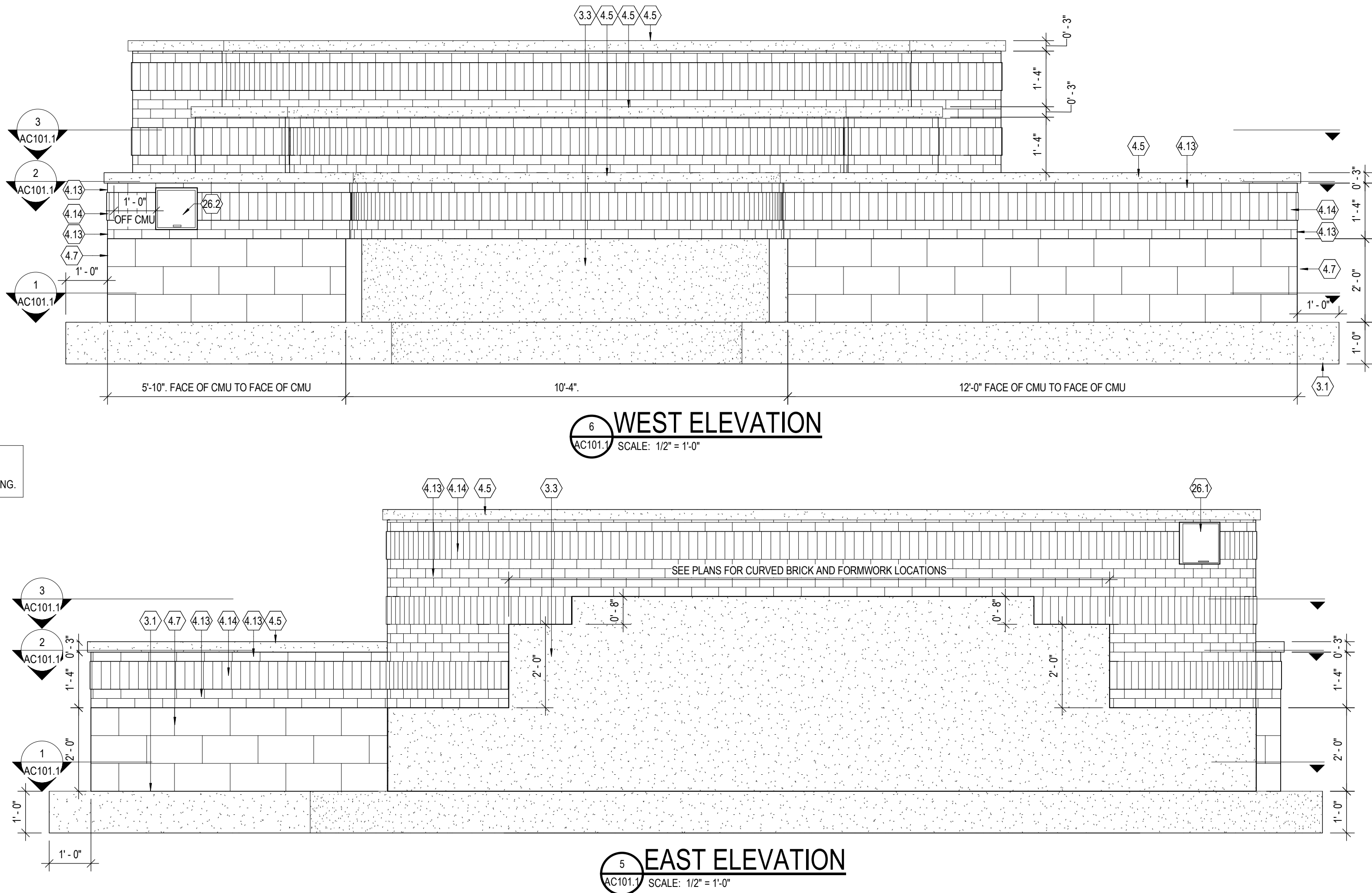
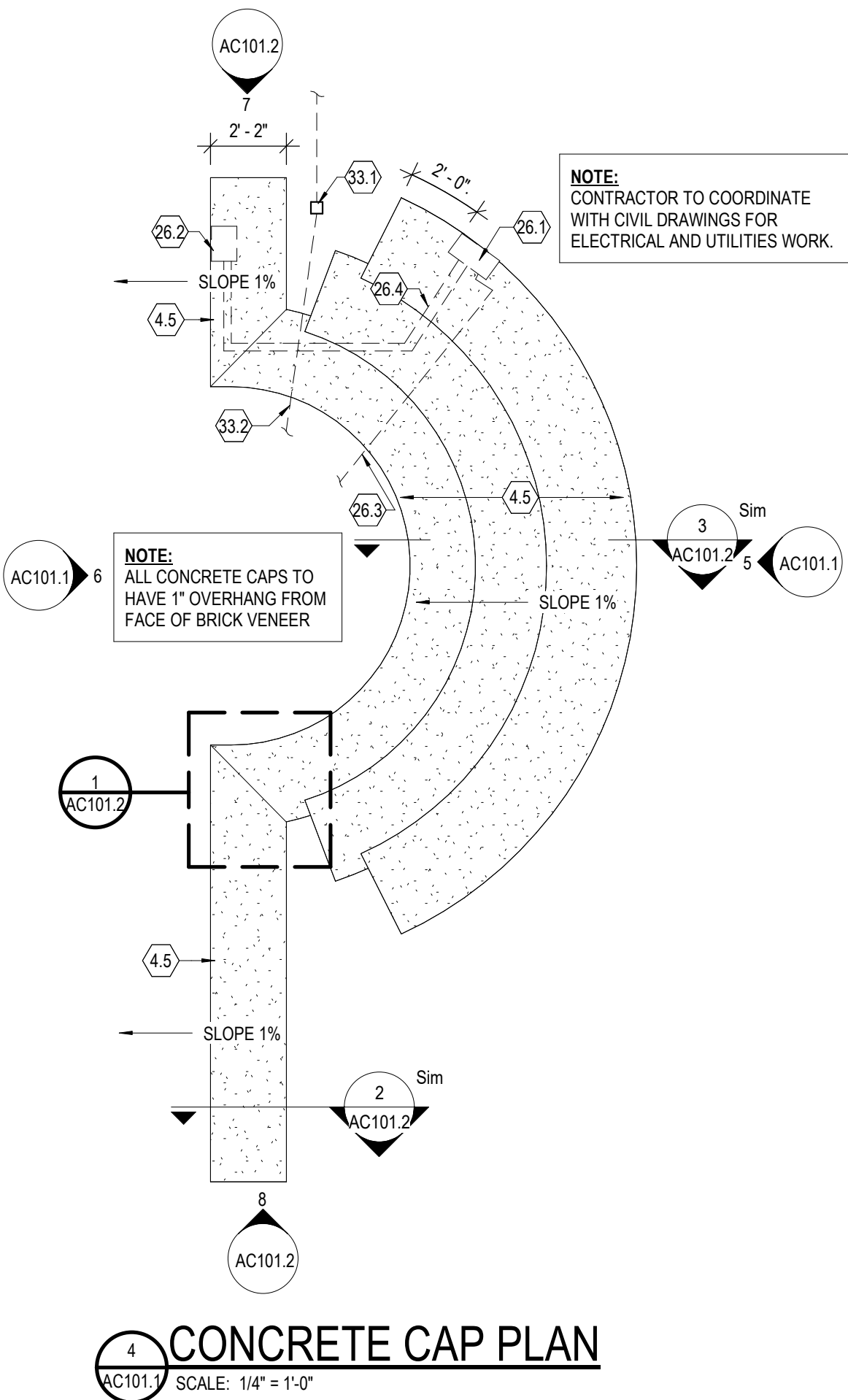
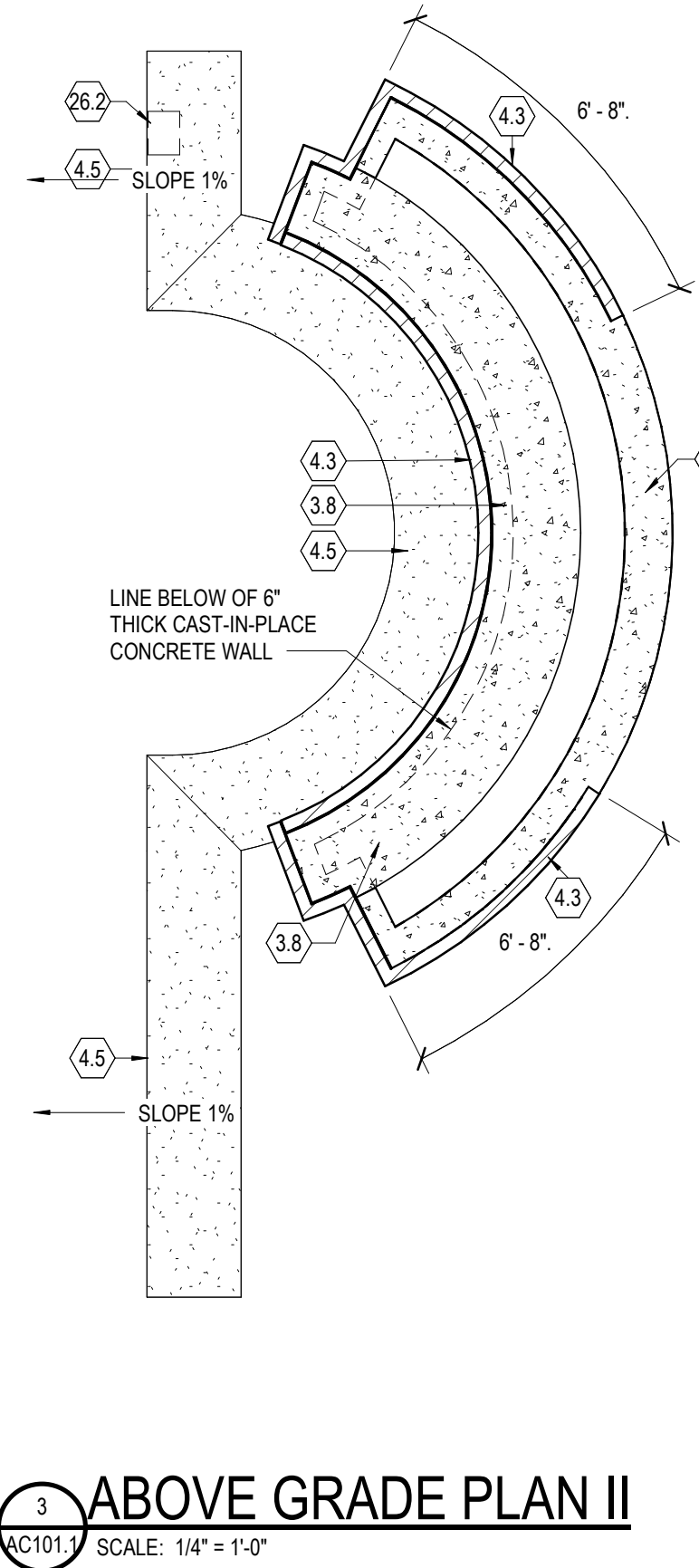
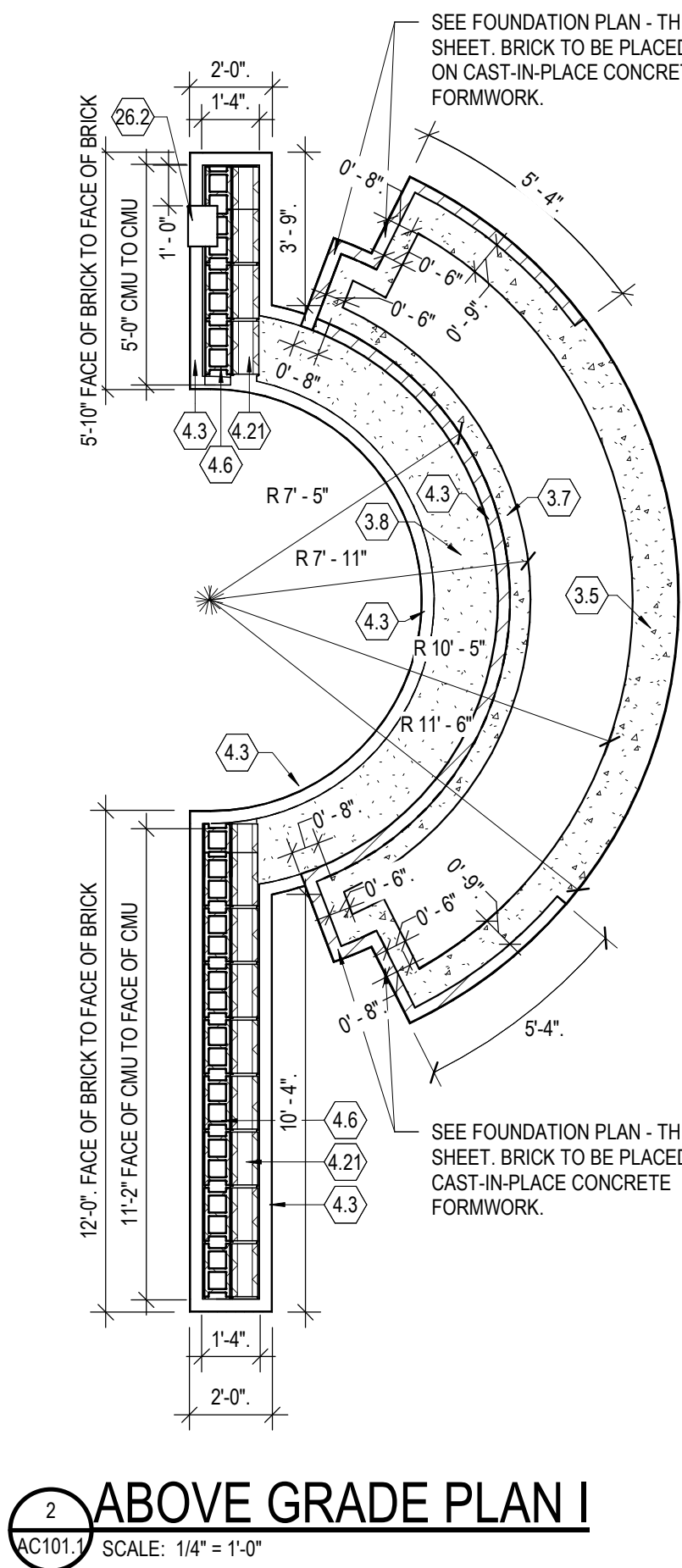
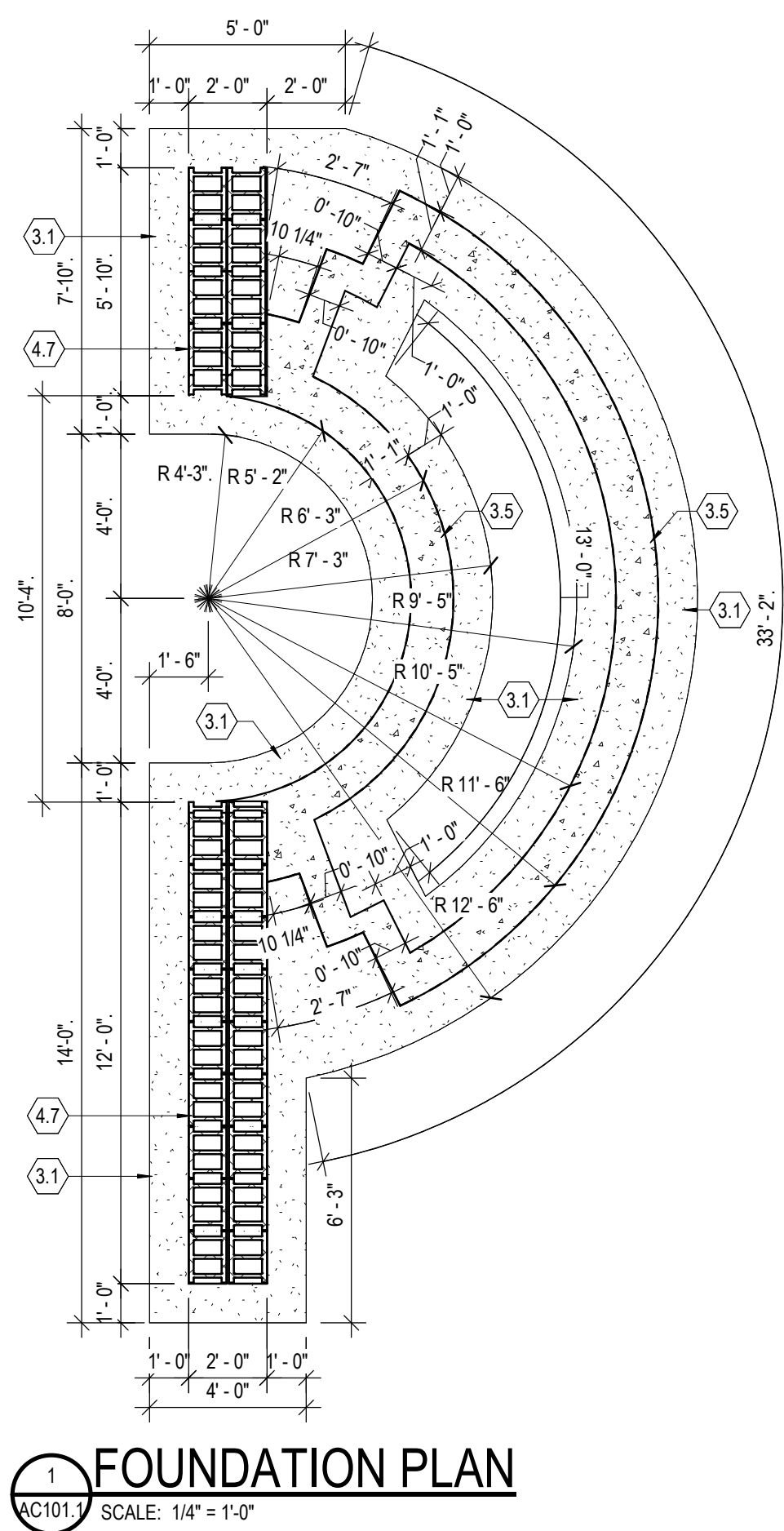
- NOTES:
1. TABULATED VALUES ARE BASED ON A MINIMUM YIELD STRENGTH OF 60,000 PSI. LENGTHS ARE IN INCHES.
 2. CASES 1 AND 2, WHICH DEPEND ON THE TYPE OF STRUCTURAL MEMBER, CONCRETE COVER, AND OC SPACING OF THE BARS ARE DEFINED AS:
 - BEAMS AND COLUMNS
 - CASE 1: CONCRETE COVER AT LEAST 1.0db AND OC SPACING AT LEAST 2.0 db
 - CASE 2: CONCRETE COVER LESS THAN 1.0db OR OC SPACING AT LESS THAN 2.0 db
 - OTHER BARS
 - CASE 1: CONCRETE COVER AT LEAST 1.0db AND OC SPACING AT LEAST 3.0 db
 - CASE 2: CONCRETE COVER LESS THAN 1.0db OR OC SPACING AT LESS THAN 3.0 db
 3. TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12 INCHES OF CONCRETE CAST BELOW THE BARS.

CMU LAP TABLE (f'm = 2,000 PSI)			
BAR SIZE	WALL THICKNESS	8"	
		SINGLE BAR	DOUBLE BAR
#3	12"	12"	19"
#4	13"	12"	35"
#5	20"	13"	58"
#6	38"	24"	79"
#7	52"	33"	111"
#8	79"	49"	174"

- NOTES:
1. TABULATED VALUES ARE BASED ON A MINIMUM YIELD STRENGTH OF 60,000 PSI. LENGTHS ARE IN INCHES.
 2. SINGLE REINFORCEMENT SHALL BE CENTERED IN CELL OF CONCRETE MASONRY UNIT. DOUBLE REINFORCEMENT SHALL HAVE A MASONRY COVER OF 1.5" FOR #5 BAR AND SMALLER AND 2" FOR #6 BAR AND LARGER.
 3. LAP LENGTH SHALL BE THE TABULATED VALUES OR 48 BAR DIAMETER, WHICH EVER IS LARGER.

DATE	REVISION	NO	BID	ISSUED FOR:	ISSUE DATE:	SCALE:	DESIGNED BY:	DRAWN BY:	CHECKED BY:
					11/04/2025	As indicated	G. MEHALLO	V. PETRO	G. MEHALLO

PROJECT NO.	
241829	
DISCIPLINE	
STRUCTURAL	
SHEET NAME	
SC102	
SHEET	OF
18	31



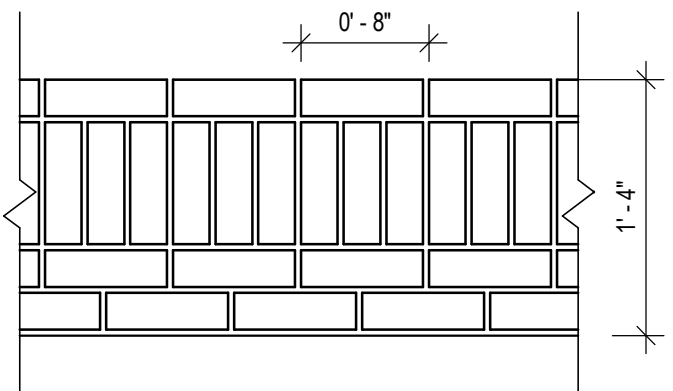
NOTE:
GRADING NOT SHOWN ON ELEVATIONS.
COORDINATE WITH CIVIL DRAWINGS FOR GRADING.

GENERAL PLAN NOTES

- SEE SITE DRAWINGS FOR FINISHED FLOOR ELEVATION AND ORIENTATION OF STRUCTURES.
- VERIFY EXISTING CONDITIONS IN FIELD AND NOTIFY ARCHITECT OF ANY DISCREPANCIES.
- EXTERIOR DIMENSIONS SHOWN ARE TO OUTSIDE OF FOUNDATION WALL OR MASONRY.
- TYPICAL UNLESS NOTED OTHERWISE.
- PROVIDE SEALANT AT JOINTS BETWEEN ALL DISSIMILAR MATERIALS.
- ALL EXTERIOR METALS SHOULD BE GALVANIZED AND PAINTED.
- COORDINATE WORK BETWEEN TRADES AND OTHER DISCIPLINES. ADDITIONAL ITEMS OF WORK MAY APPEAR ELSEWHERE IN THE CONSTRUCTION DOCUMENTS.
- GROUT SOLID ALL CMU COURSES AND VOID SPACES BELOW GRADE.
- GROUT ALL CMU CELLS WITH STEEL REINFORCING. LOCATE VERTICAL REINFORCING AT THE CENTER OF THE CELL. DEFLECT REINFORCING AS REQUIRED.
- ROUGHEN TOP OF CONCRETE FOOTING AT THE INTERFACE OF THE MASONRY ASSEMBLY AND THE FOOTING. ROUGHEN TO 1/4" (MIN) AMPLITUDE.

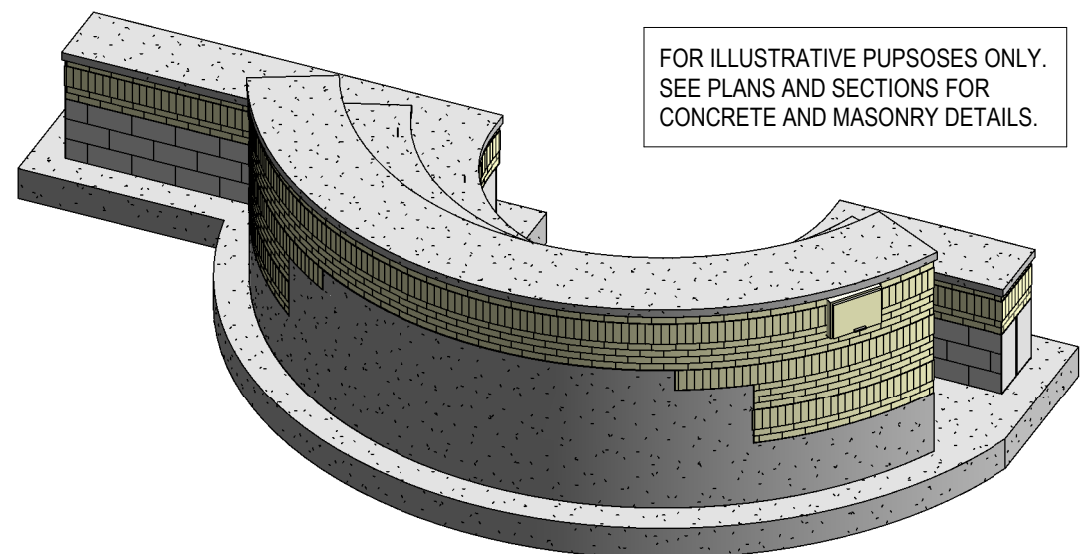
ARCH NEW WORK KEYED NOTES

NUMBER	DESCRIPTION
3.1	CONCRETE FOOTING.
3.3	CONCRETE FORMWORK. SEE PLANS AND SECTION.
3.5	1'-1" CAST-IN-PLACE CONCRETE WALL.
3.7	6" CAST-IN-PLACE CONCRETE FORM.
3.8	6" THICK CAST-IN-PLACE CONCRETE FORMWORK BENEATH CONCRETE CAP.
4.3	BRICK VENEER. BASIS OF DESIGN:
4.5	WALL CAP. SET ON TOP OF MASONRY WITH STEEL DOWELS AND FULL BED OF MORTAR.
4.6	8" (NOM.) CMU.
4.7	12" (NOM.) CMU.
4.13	RUNNING BOND BRICK VENEER. MATCH EXISTING.
4.14	SOLDIER COURSE BOND BRICK VENEER W/ 3/8" OFFSET. MATCH EXISTING.
4.21	CONTINUOUS BOND BEAM W/ (1) #4. GROUT SOLID.
26.1	ELECTRICAL CONTROL PANEL. CITY USE ONLY. PAINT EXTERIOR DOOR PANEL TO MATCH BRICK COLOR. COORDINATE WITH CIVIL DRAWINGS.
26.2	ELECTRICAL FIRE PIT CONTROL PANEL. PUBLIC USE. PAINT EXTERIOR DOOR PANEL TO MATCH BRICK COLOR. COORDINATE WITH CIVIL DRAWINGS.
26.3	1/2" ELECTRICAL CONDUIT. COORDINATE WITH CIVIL DRAWINGS.
26.4	(2) 1/2" ELECTRICAL CONDUITS. COORDINATE WITH CIVIL DRAWINGS.
33.1	GAS REGULATOR. COORDINATE WITH CIVIL DRAWINGS.
33.2	1" HDPE GAS. COORDINATE WITH CIVIL DRAWINGS.



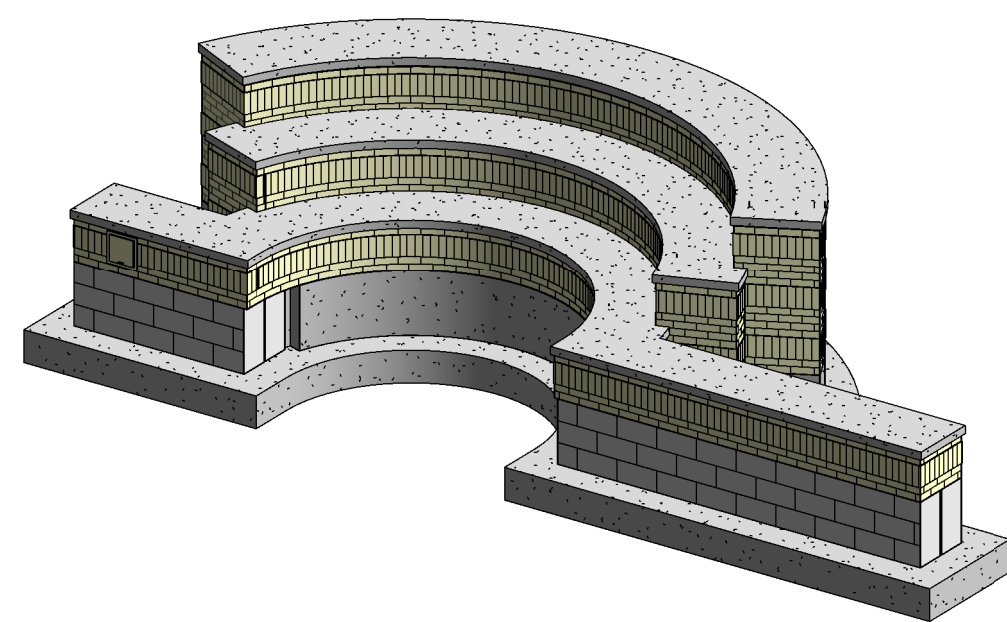
BRICK PATTERN DETAIL

AC101.1 SCALE: 1" = 1'-0"



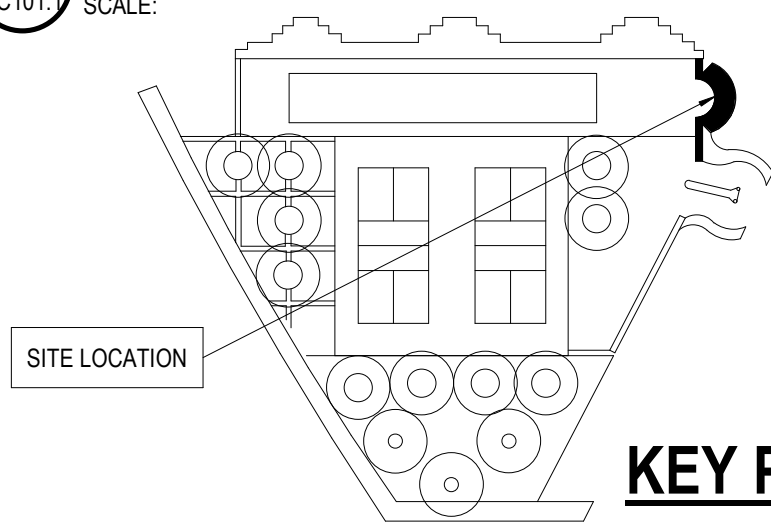
CURVED SEATING WALL ISOMETRIC -BACKSIDE

AC101.1 SCALE:

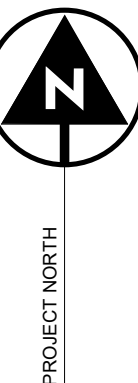


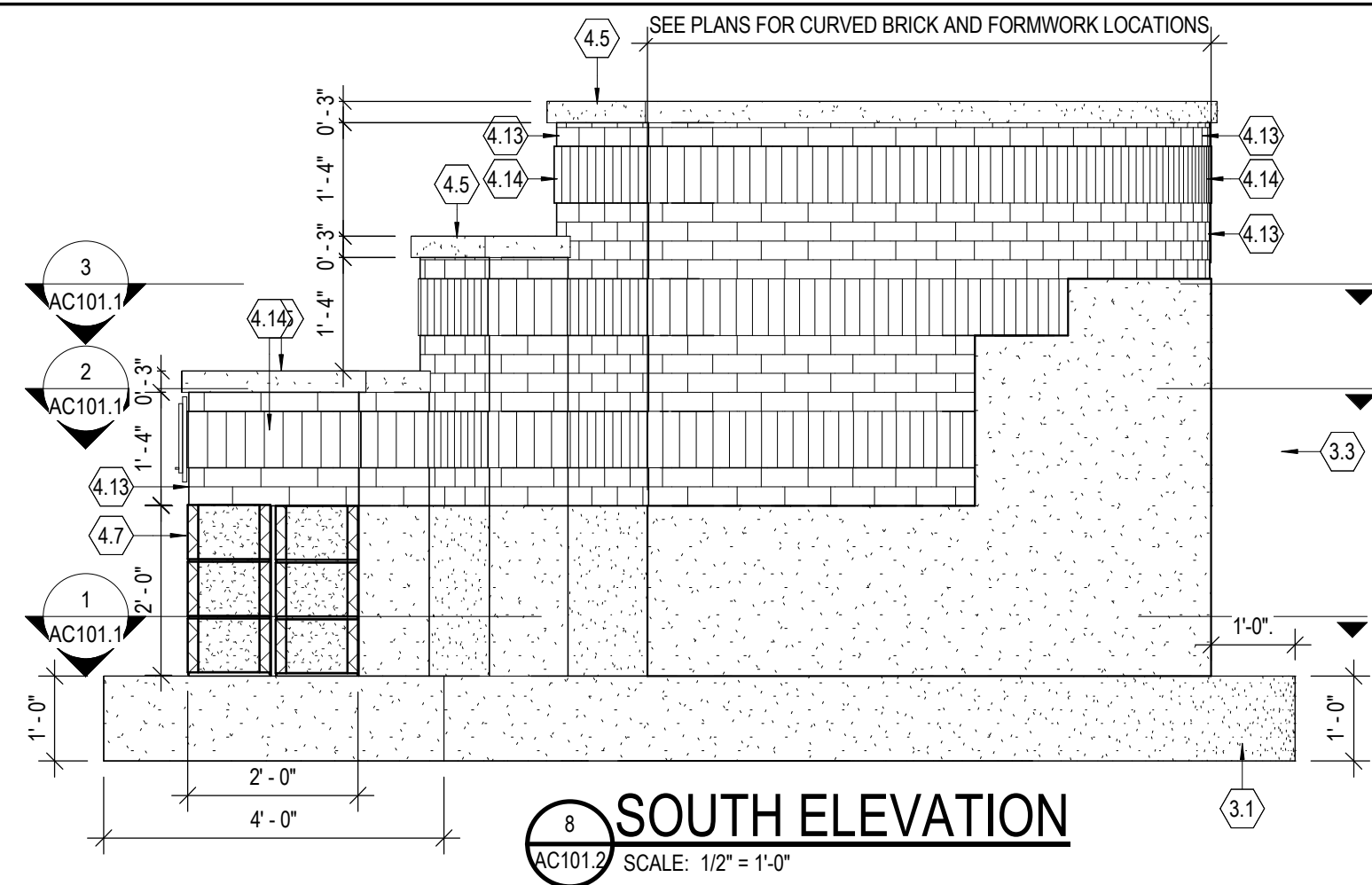
CURVED SEATING WALL ISOMETRIC

AC101.1 SCALE:

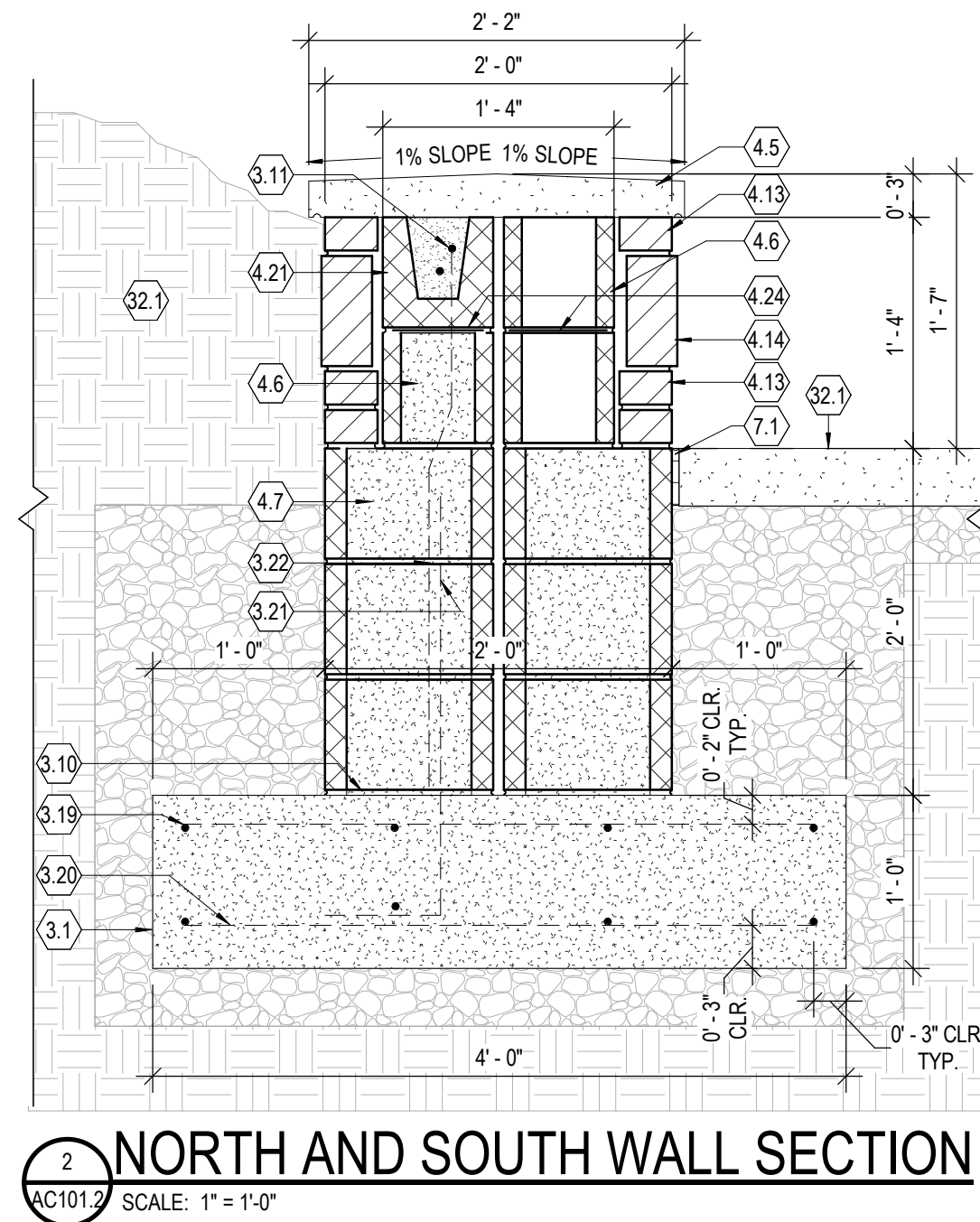
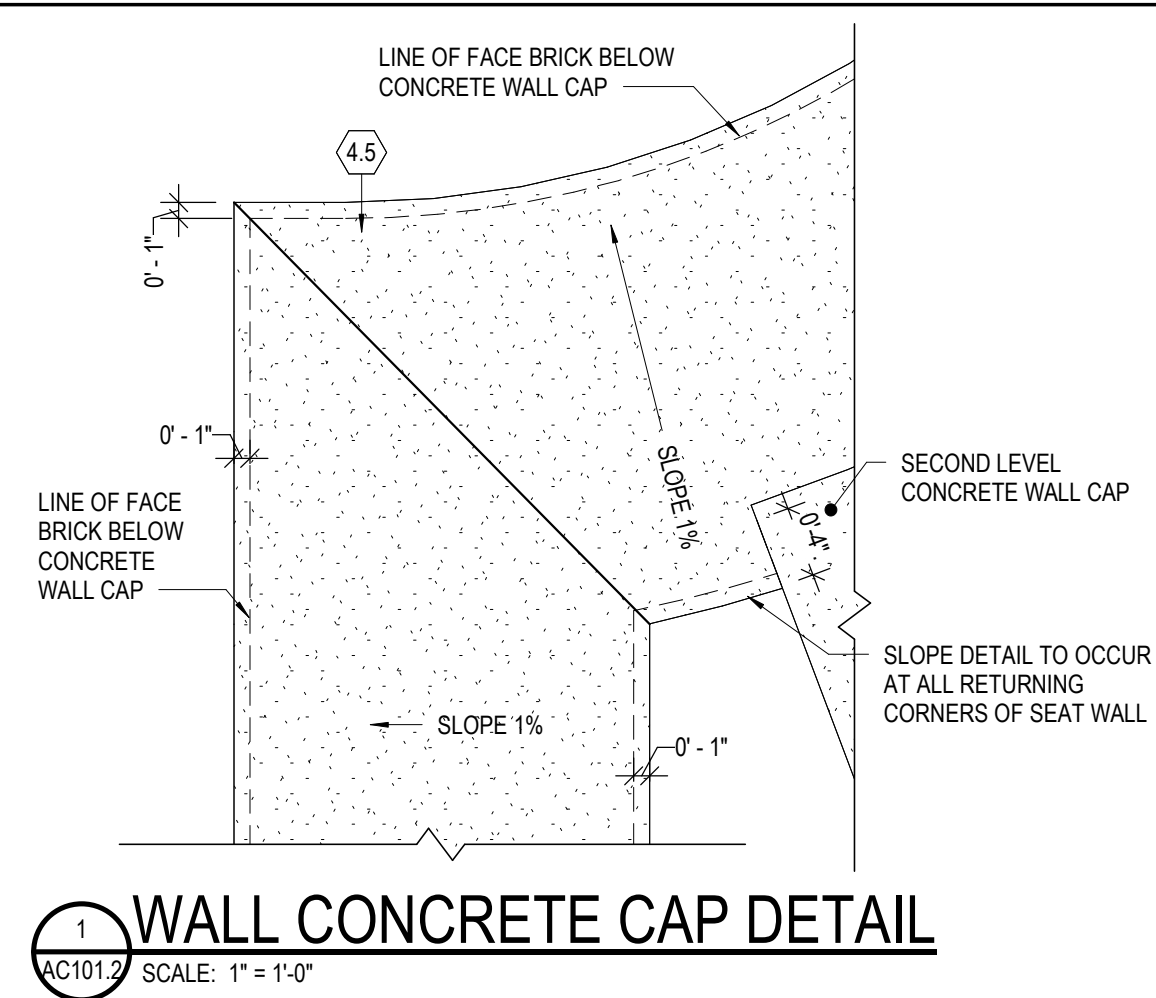
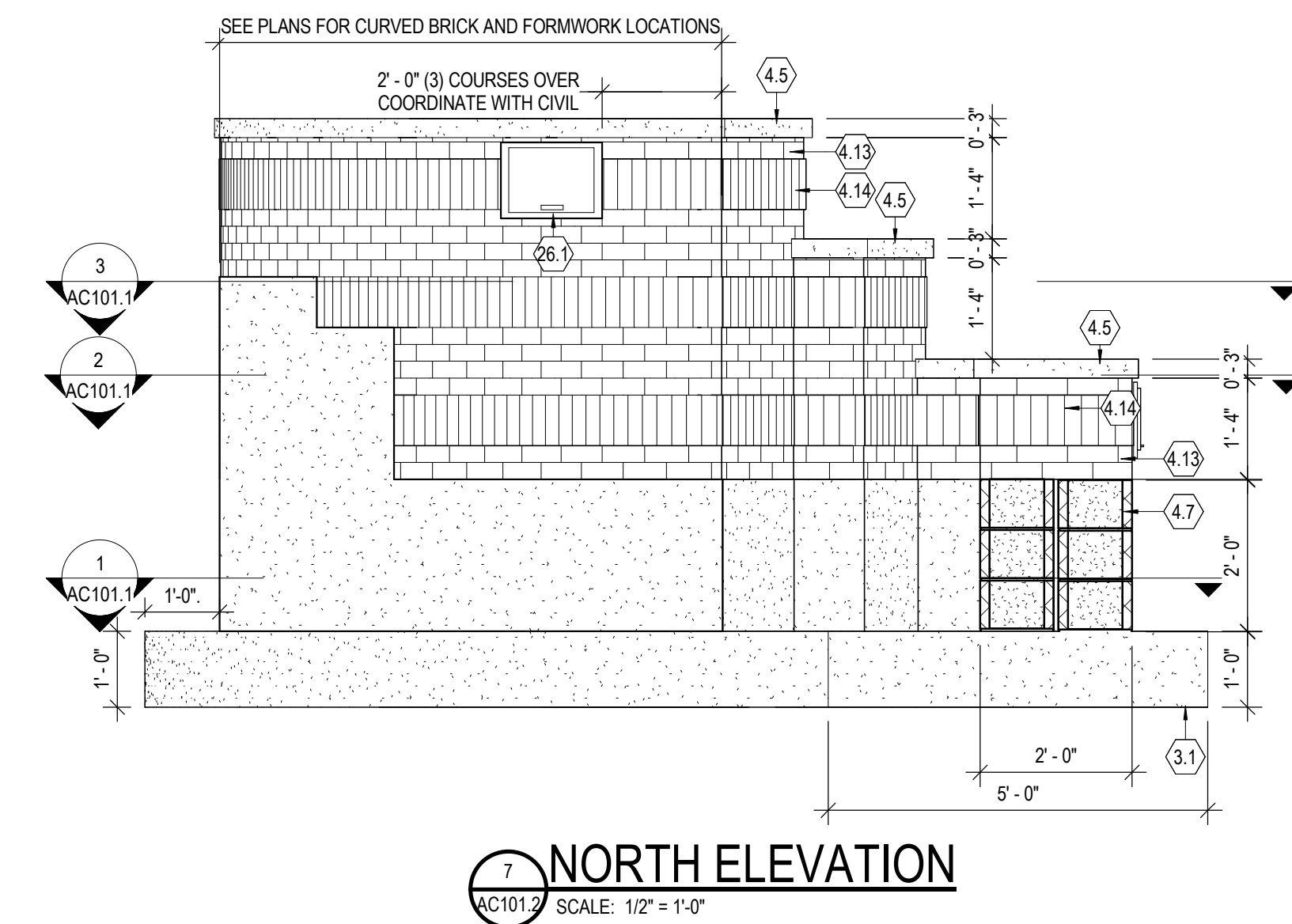


KEY PLAN

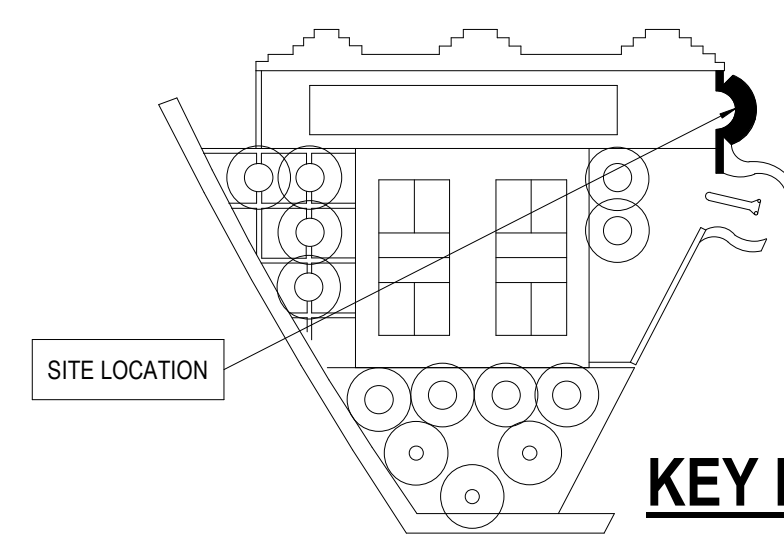
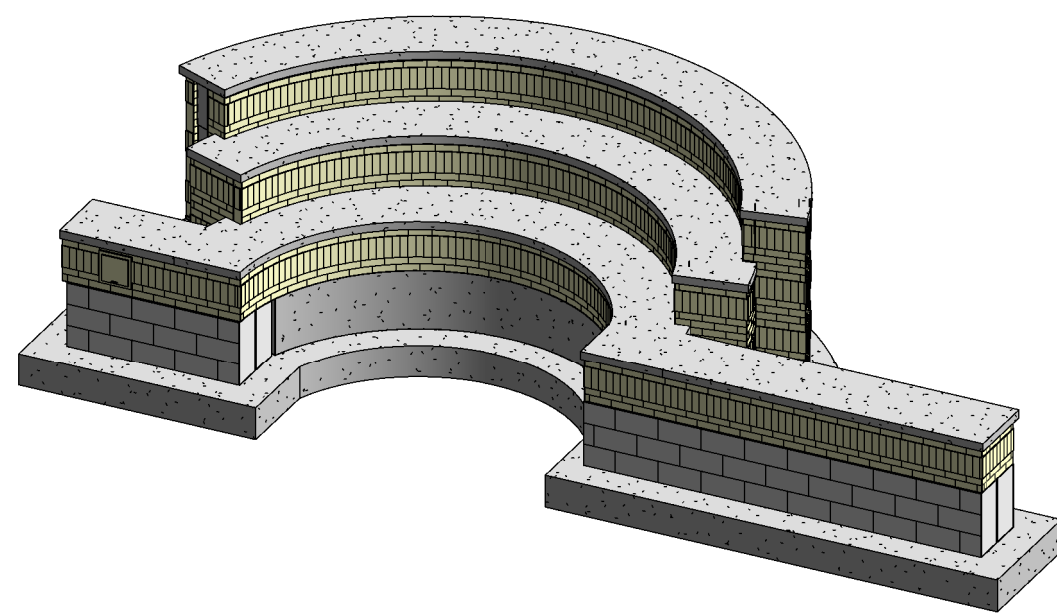
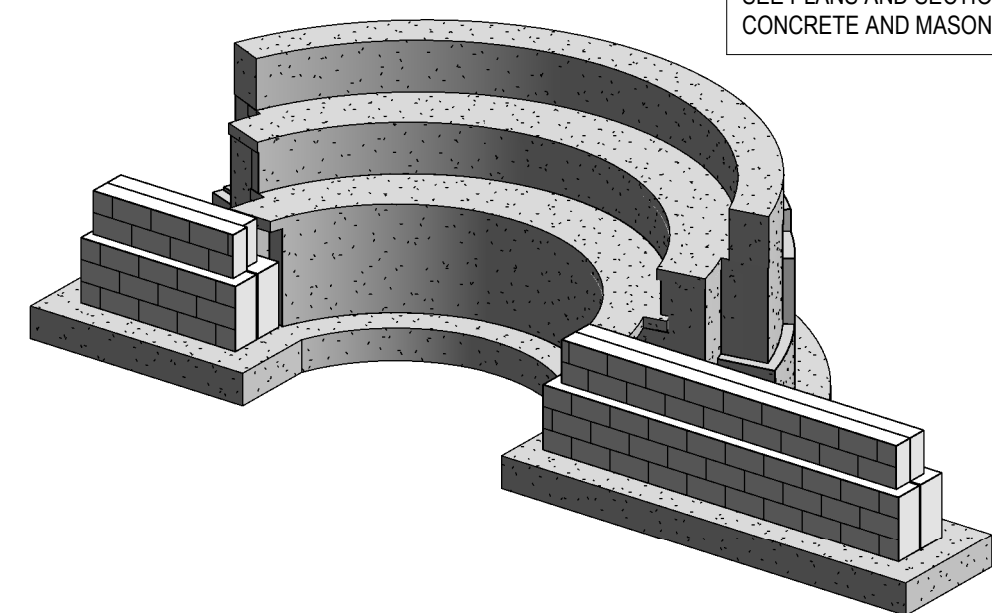




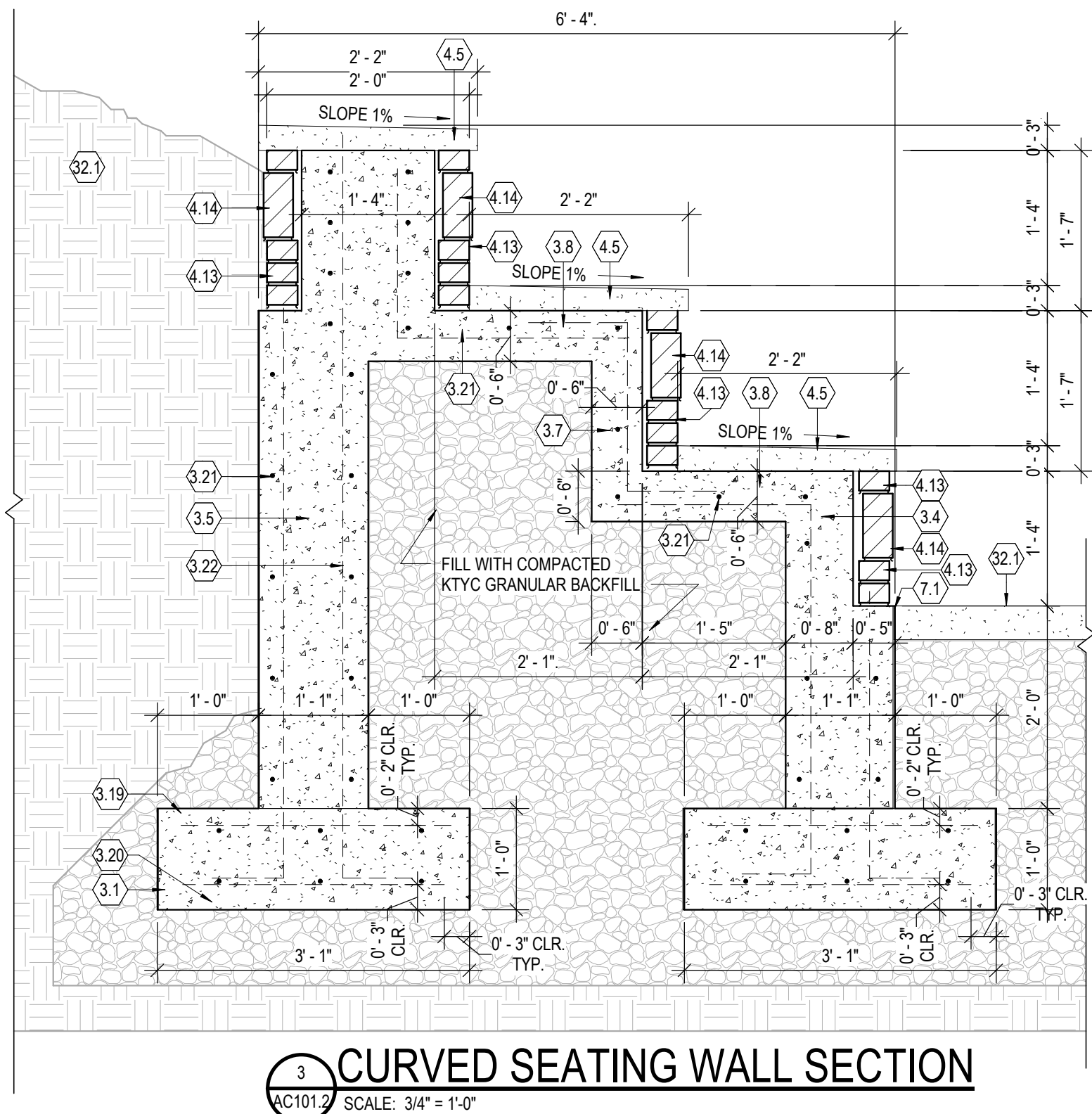
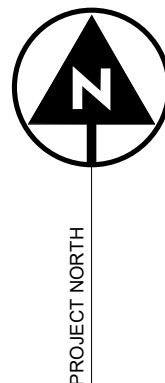
NOTE:
GRADING NOT SHOWN ON ELEVATIONS.
COORDINATE WITH CIVIL DRAWINGS FOR GRADING.



FOR ILLUSTRATIVE PURPOSES ONLY.
SEE PLANS AND SECTIONS FOR
CONCRETE AND MASONRY DETAILS.



KEY PLAN



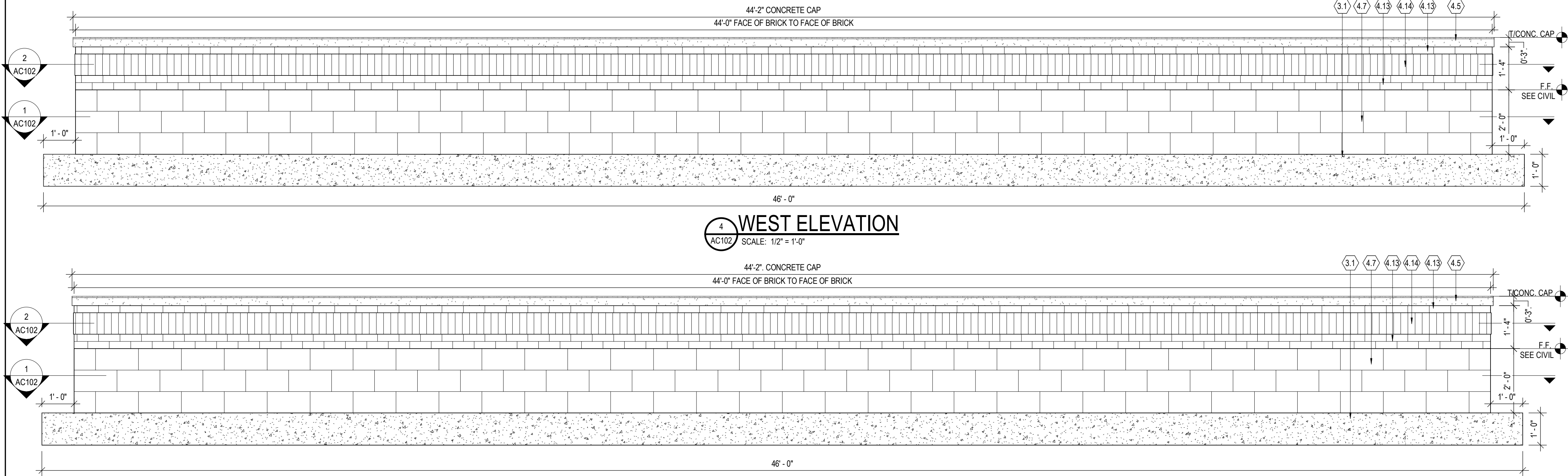
GENERAL PLAN NOTES

- A. SEE SITE DRAWINGS FOR FINISHED FLOOR ELEVATION AND ORIENTATION OF STRUCTURES.
- B. VERIFY EXISTING CONDITIONS IN FIELD AND NOTIFY ARCHITECT OF ANY DISCREPANCIES.
- C. EXTERIOR DIMENSIONS SHOWN ARE TO OUTSIDE OF FOUNDATION WALL OR MASONRY. TYPICAL UNLESS NOTED OTHERWISE.
- D. PROVIDE SEALANT AT JOINTS BETWEEN ALL DISSIMILAR MATERIALS.
- E. ALL EXTERIOR METALS SHOULD BE GALVANIZED AND PAINTED.
- F. COORDINATE WORK BETWEEN TRADES AND OTHER DISCIPLINES. ADDITIONAL ITEMS OF WORK MAY APPEAR ELSEWHERE IN THE CONSTRUCTION DOCUMENTS.
- G. PROVIDE SLOPE ALL CMU COURSES AND ALL VERTICAL SPACES BELOW GRADE.
- H. GROUT ALL CMU CELLS WITH STEEL REINFORCING. LOCATE VERTICAL REINFORCING AT THE CENTER OF THE CELL, DEFLECT REINFORCING AS REQUIRED.
- J. ROUGHEN TOP OF CONCRETE FOOTING AT THE INTERFACE OF THE MASONRY ASSEMBLY AND THE FOOTING. ROUGHEN TO 1/4" (MIN) AMPITUDE.

ARCH NEW WORK KEYED NOTES

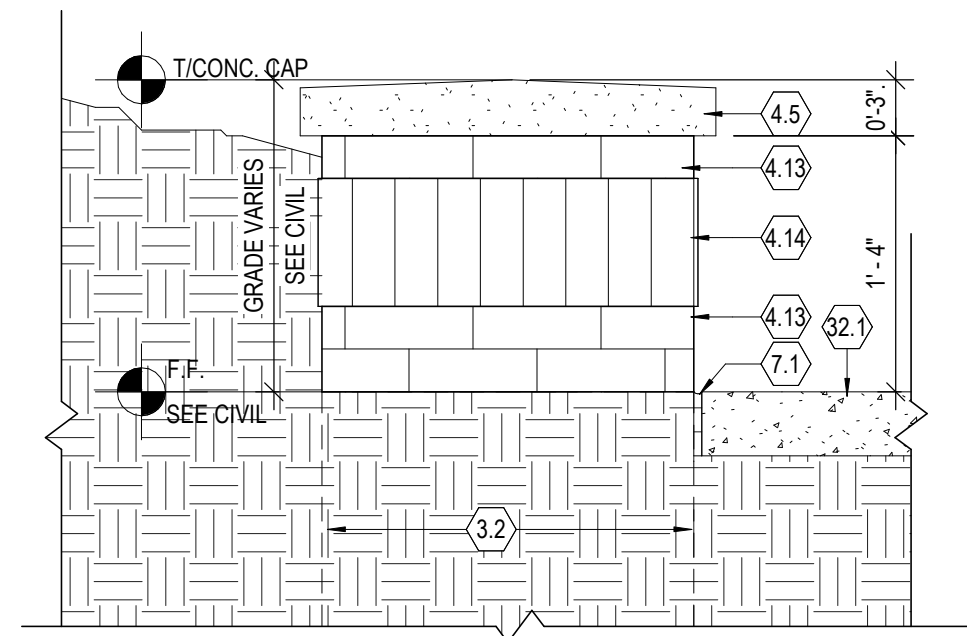
NUMBER	DESCRIPTION
3.3	CONCRETE FOOTING.
3.3	CONCRETE FORMWORK. SEE PLANS AND SECTION.
3.4	8" CAST-IN-PLACE CONCRETE WALL.
3.5	1'-1" CAST-IN-PLACE CONCRETE WALL.
3.7	6" CAST-IN-PLACE CONCRETE FORM.
3.8	6" THICK CAST-IN-PLACE CONCRETE FORMWORK BENEATH CONCRETE CAP.
3.10	ROUGHEN TO 1/4" MIN. AMPLITUDE.
3.11	STANDARD 90 DEG. HOOK.
3.19	(4)#5 CONTINUOUS, TOP & BOTTOM.
3.20	#5 @ 1'-0" OC TOP & BOTTOM.
3.21	#5 DOWEL @ 1'-0" OC.
3.22	#5 VERTICAL @ 2'-0" OC.
4.5	WALL CAP, SET ON TOP OF MASONRY WITH STEEL DOWELS AND FULL BED OF MORTAR.
4.6	8" (NOM.) CMU.
4.7	12" (NOM.) CMU.
4.13	RUNNING BOND BRICK VENEER, MATCH EXISTING.
4.14	SOLDIER COURSE BOND BRICK VENEER W/ 3/8" OFFSET, MATCH EXISTING.
4.21	CONTINUOUS BOND BEAM W/ (1) #4, GROUT SOLID.
4.24	9 GAUGE GALV. LADDER TYPE, JOINT REINFORCING AT 1'-4" OC.
5.1	EXPANSION JOINT FILLER MATERIAL AND/OR JOINT SEALANT.
76.1	ELECTRICAL CONTROL PANEL, CITY USE ONLY. PAINT EXTERIOR DOOR PANEL TO MATCH BRICK COLOR. COORDINATE WITH CIVIL DRAWINGS.
32.1	EXTERIOR GRADE OR PAVING. SEE CIVIL DRAWINGS.

11/3/2025 4:18:10 PM

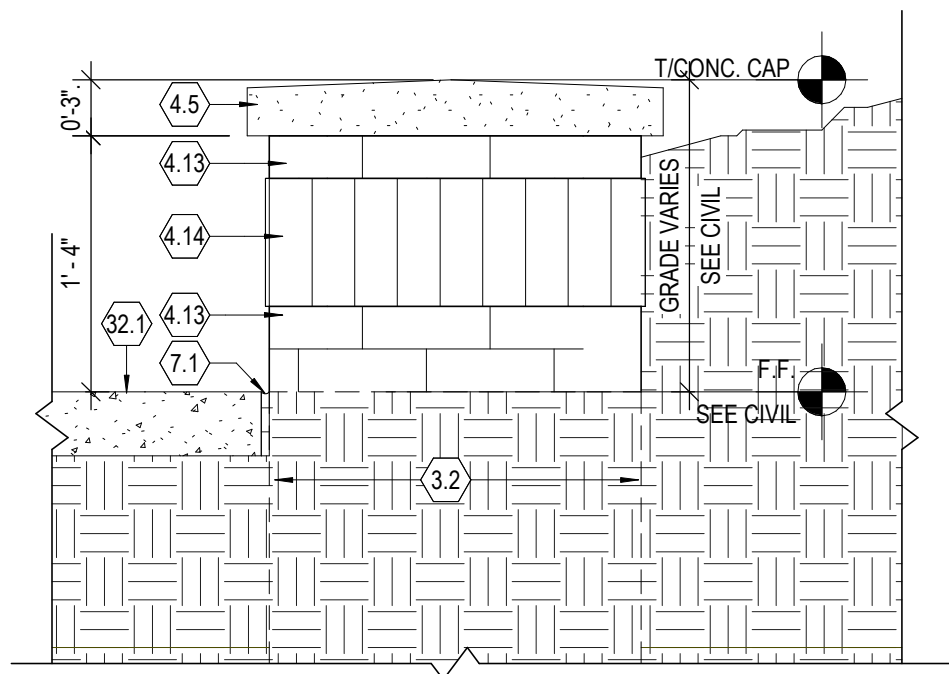


4 WEST ELEVATION
SCALE: 1/2" = 1'-0"

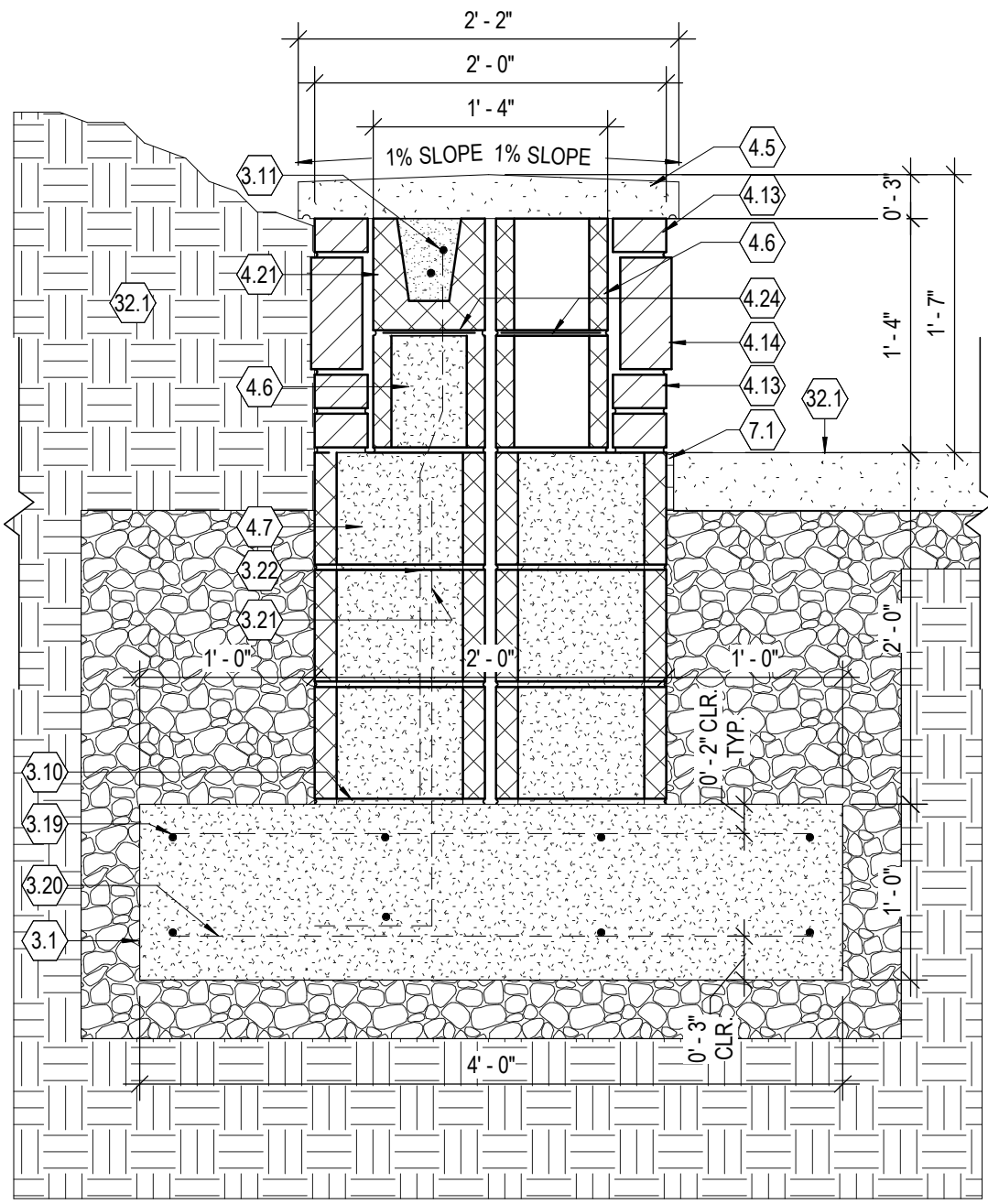
5 EAST ELEVATION
SCALE: 1/2" = 1'-0"



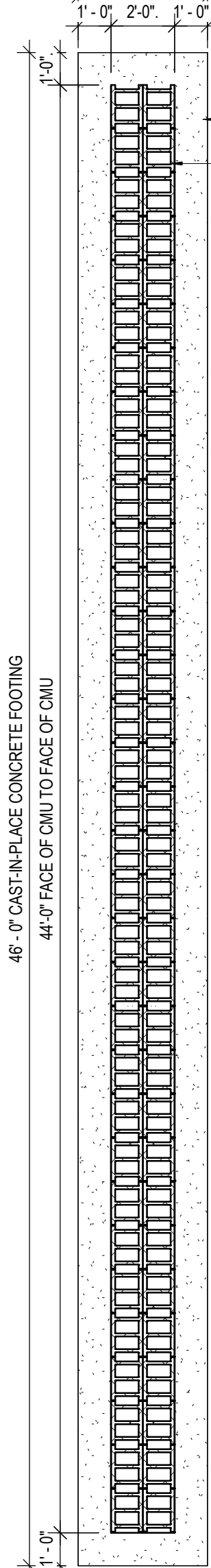
6 NORTH ELEVATION
SCALE: 1" = 1'-0"



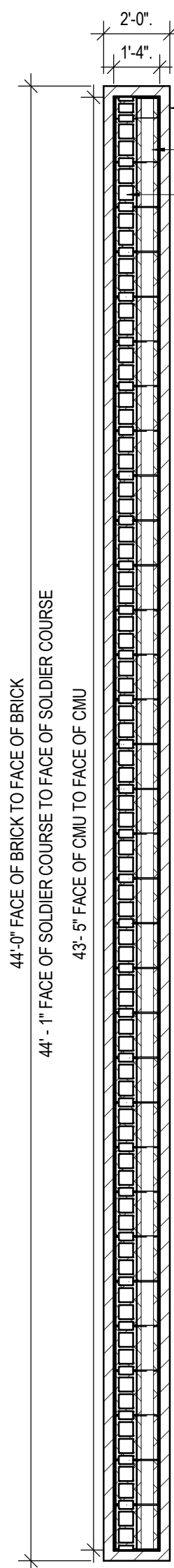
7 SOUTH ELEVATION
SCALE: 1" = 1'-0"



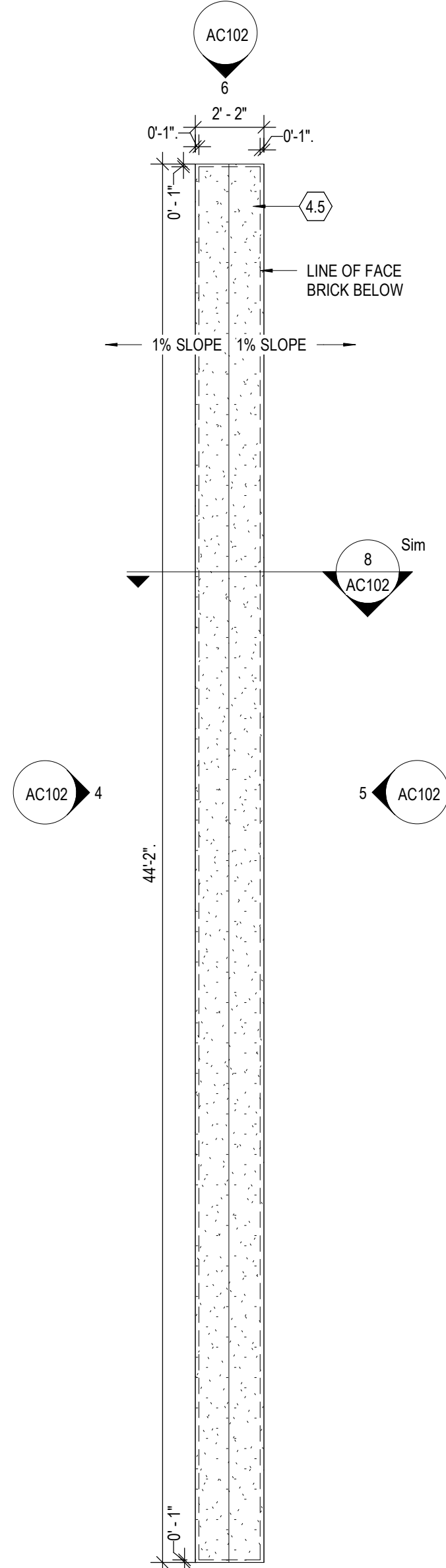
8 EAST SIDE SEATING WALL - SECTION
SCALE: 1" = 1'-0"



1 FOUNDATION PLAN
SCALE: 1/4" = 1'-0"



2 ABOVE GRADE PLAN
SCALE: 1/4" = 1'-0"



3 CONCRETE CAP PLAN
SCALE: 1/4" = 1'-0"

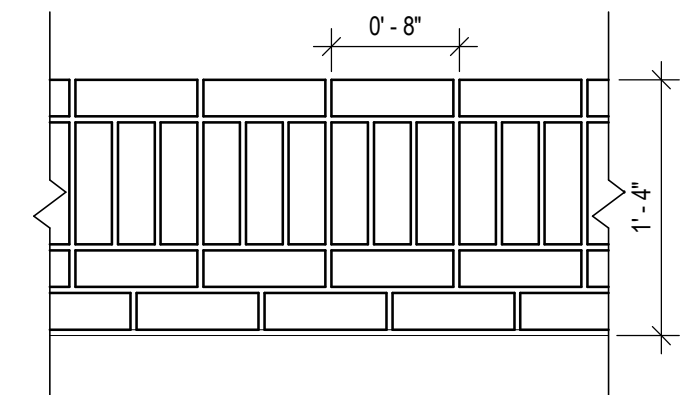
GENERAL PLAN NOTES

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- ROUGHEN TOP OF CONCRETE FOOTING AT THE INTERFACE OF THE MASONRY ASSEMBLY AND THE FOOTING. ROUGHEN TO 1/4" (MIN) AMPLITUDE.

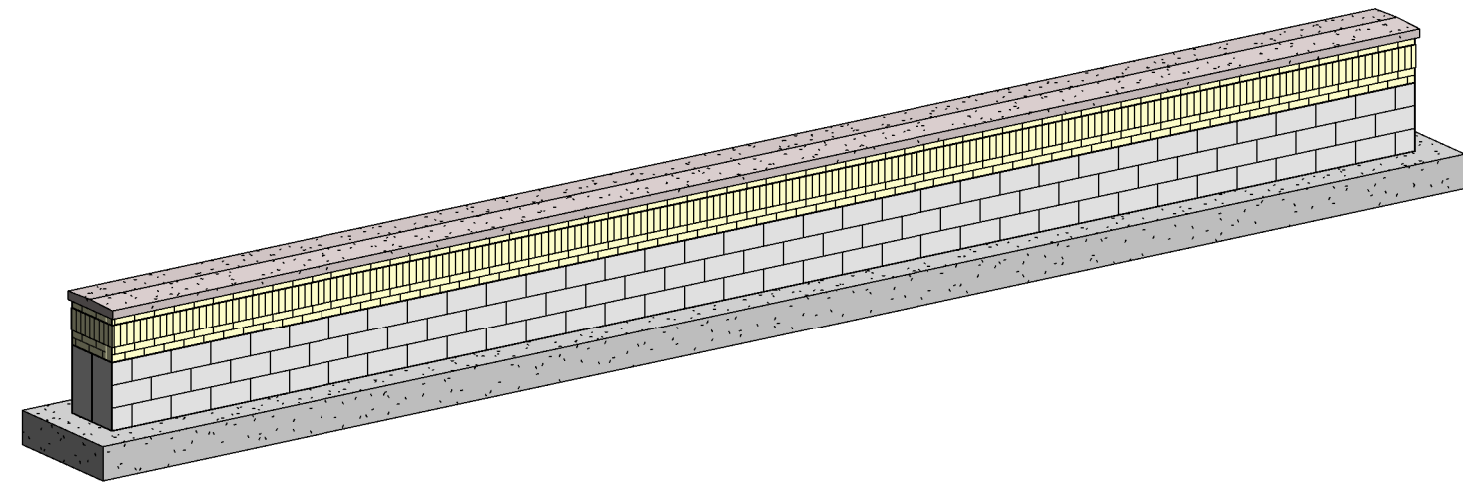
ARCH NEW WORK KEYED NOTES

NUMBER	DESCRIPTION
3.1	CONCRETE FOOTING.
3.2	STRUCTURAL FOOTING. SEE SECTION DETAIL THIS SHEET.
3.10	ROUGHEN TO 1/4" MIN. AMPLITUDE.
3.11	STANDARD 90 DEG. HOOK.
3.19	(4)#5 CONTINUOUS, TOP & BOTTOM.
3.20	#5 @ 1'-0" OC TOP & BOTTOM.
3.21	#5 DOWEL, @ 1'-0" OC.
3.22	#5 VERTICAL @ 2'-0" OC.
4.5	WALL CAP. SET ON TOP OF MASONRY WITH STEEL DOWELS AND FULL BED OF MORTAR.
4.6	8" (NOM.) CMU.
4.7	12" (NOM.) CMU.
4.13	RUNNING BOND BRICK VENEER. MATCH EXISTING.
4.14	SOLDIER COURSE BOND BRICK VENEER W/ 3/8" OFFSET. MATCH EXISTING.
4.21	CONTINUOUS BOND BEAM W/(1) #4. GROUT SOLID.
4.24	9 GAUGE GALV. LADDER TYPE JOINT REINFORCING AT 1'-4" OC.
7.1	EXPANSION JOINT FILLER MATERIAL AND/OR JOINT SEALANT.
32.1	EXTERIOR GRADE OR PAVING. SEE CIVIL DRAWINGS.

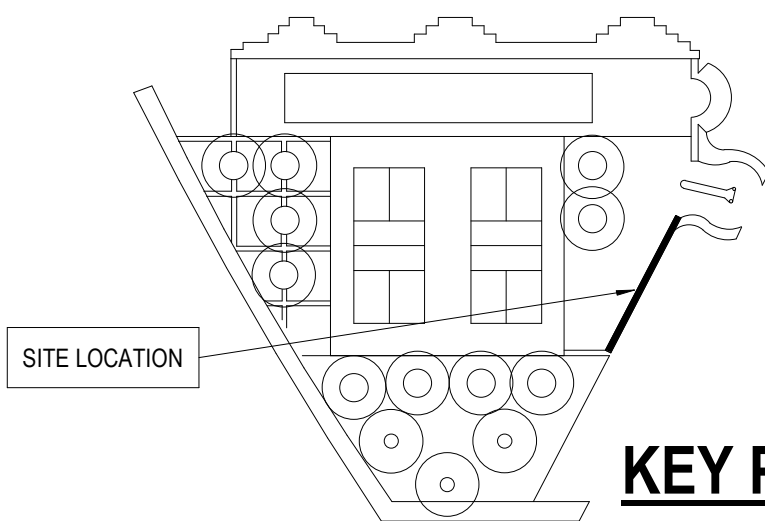
NOTE:
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COORDINATE WITH CIVIL DRAWINGS FOR GRADING.



9 BRICK PATTERN DETAIL
SCALE: 1" = 1'-0"



10 EAST SEATING WALL ISOMETRIC
SCALE:

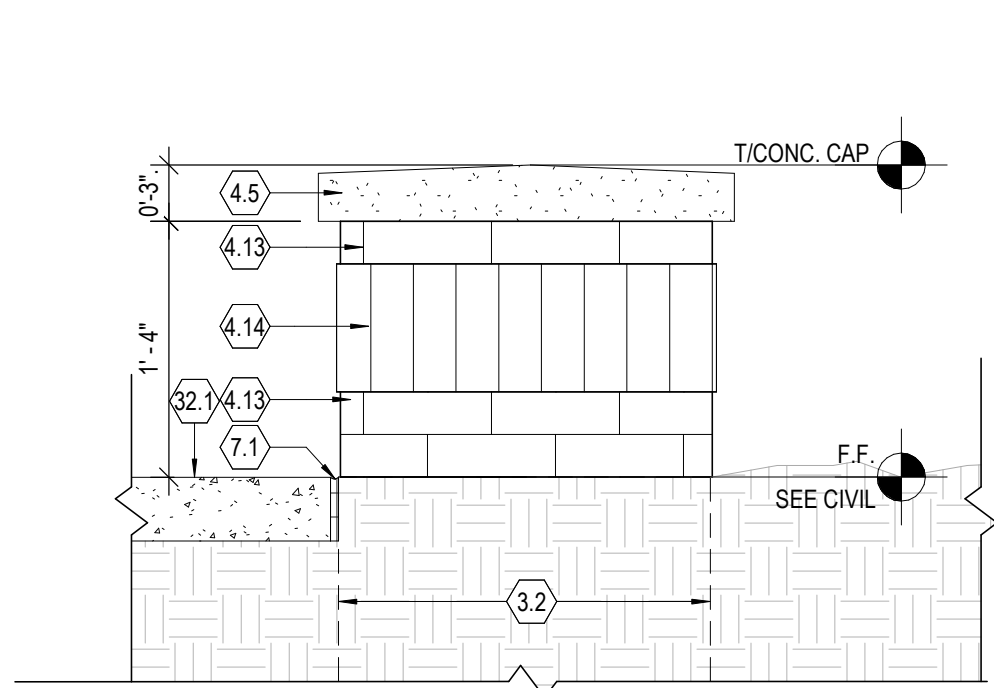


KEY PLAN

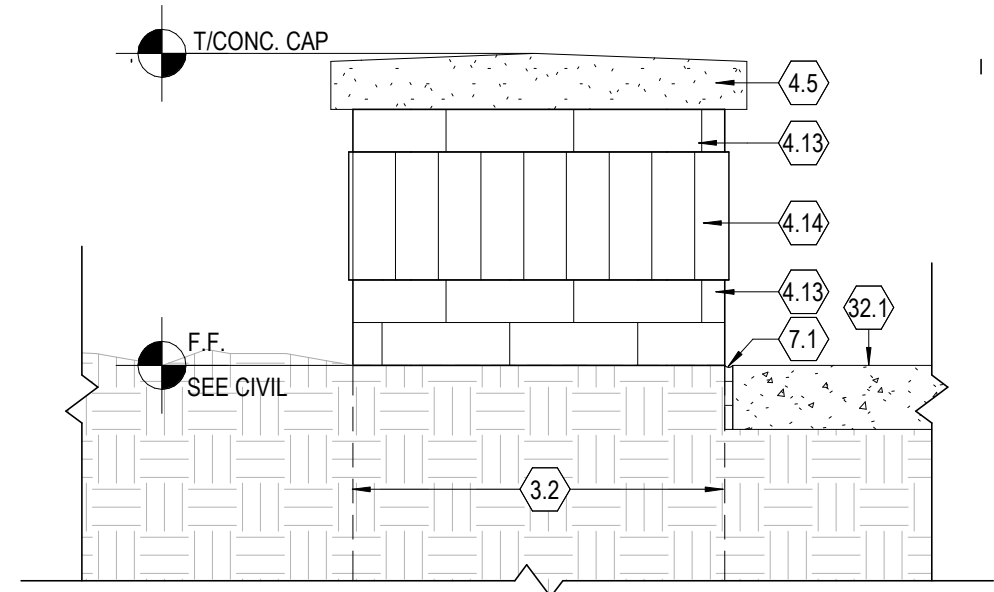
THE COMMONS AT HIGHLAND HEIGHTS
CENTRAL COMMONS IMPROVEMENTS
HIGHLAND HEIGHTS, KY

EAST SEATING WALL

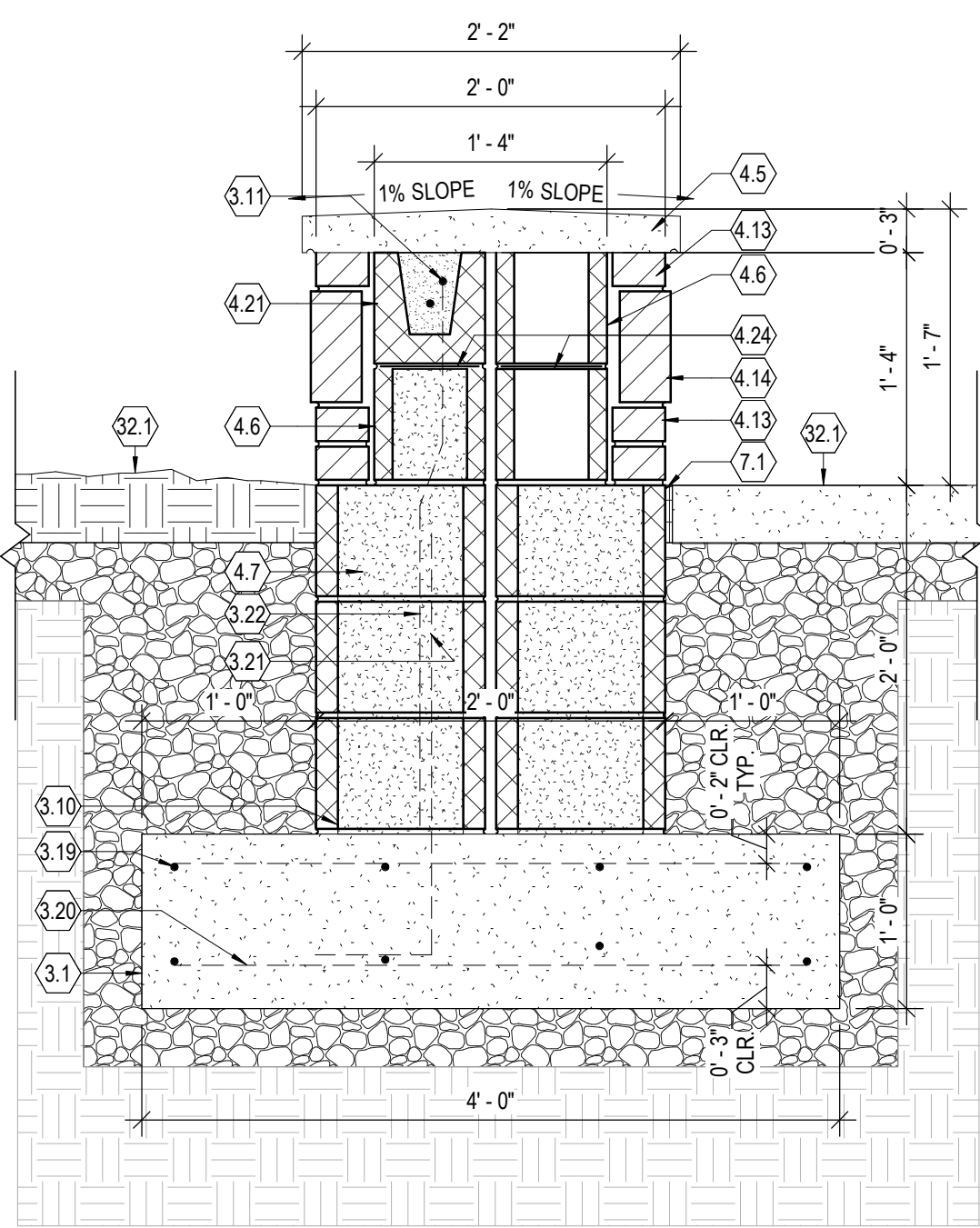
PROJECT NO.	241829
DISCIPLINE	ARCHITECTURAL
SHEET NAME	AC102
SHEET	22
OF	31



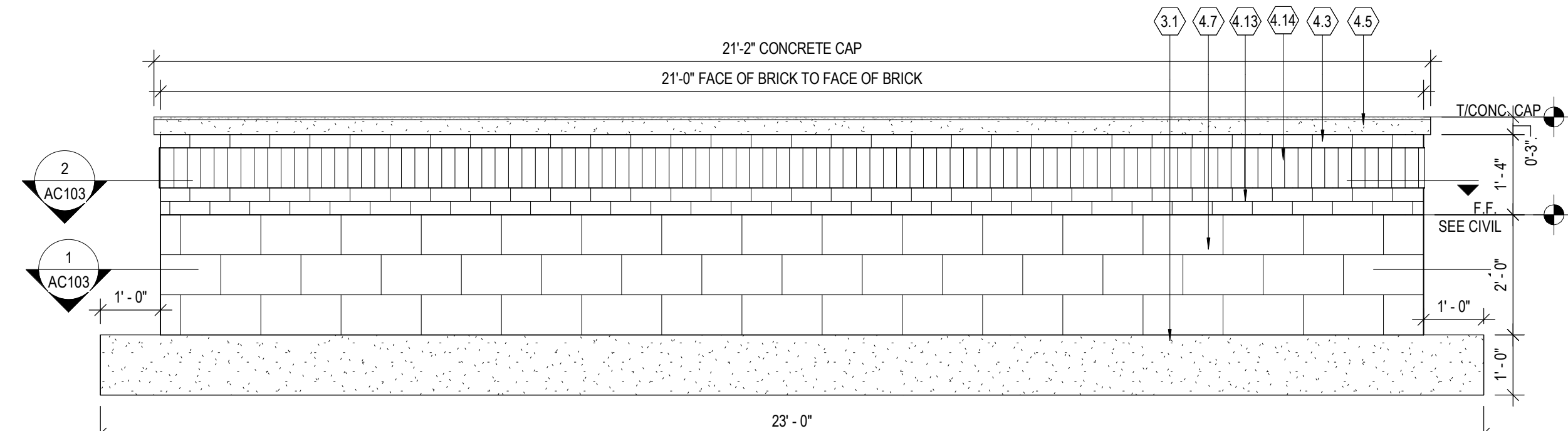
7 NORTH ELEVATION
AC103 SCALE: 1" = 1'-0"



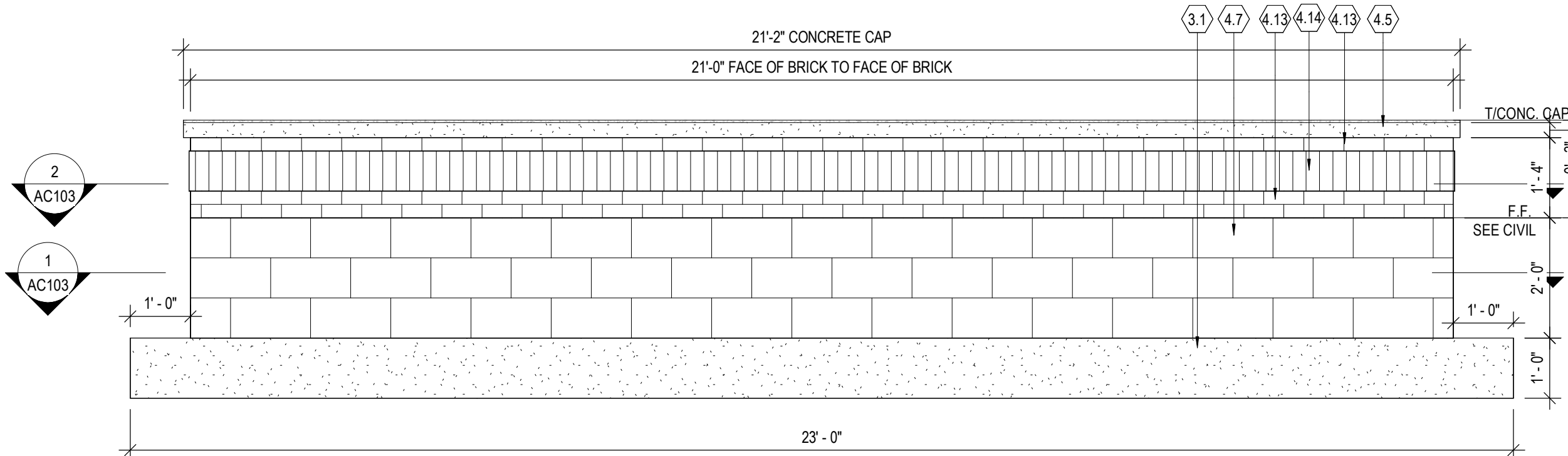
8 SOUTH ELEVATION
AC103 SCALE: 1" = 1'-0"



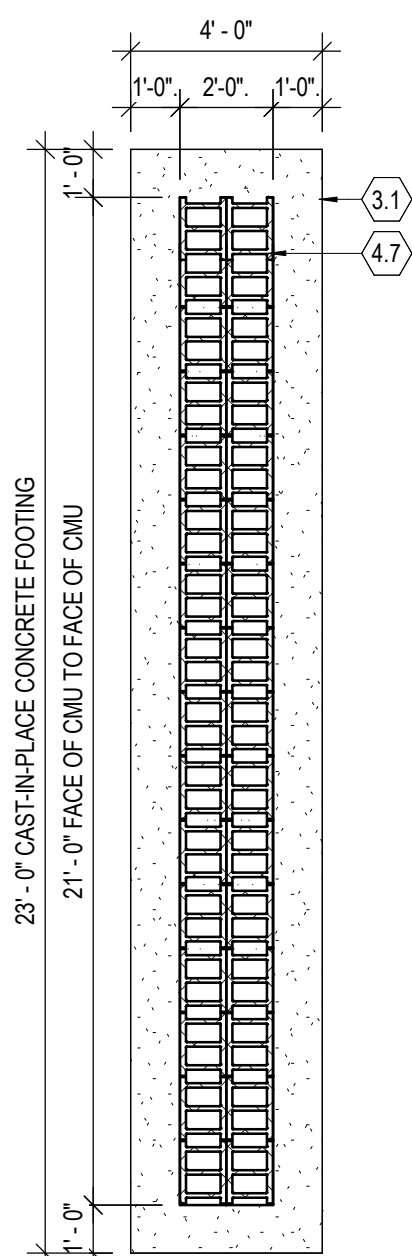
9 WEST SIDE SEATING WALL - SECTION
AC103 SCALE: 1" = 1'-0"



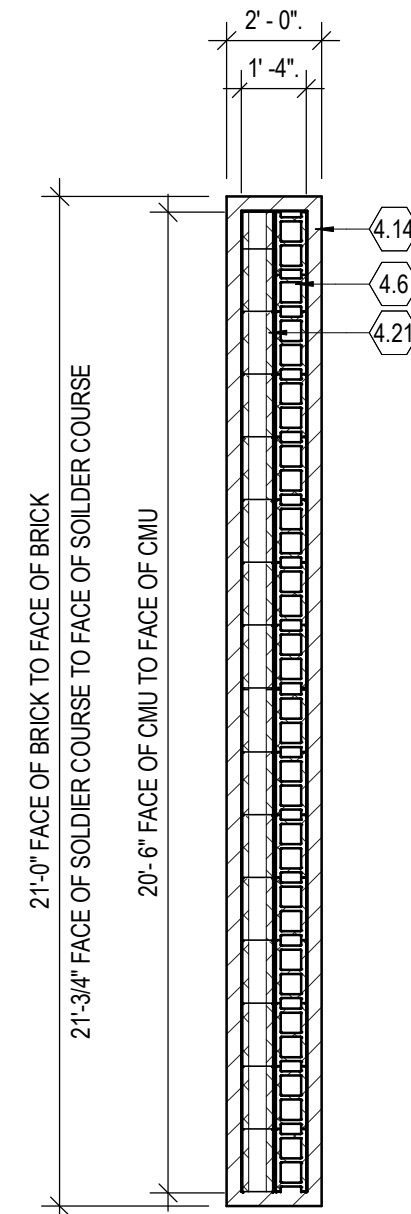
6 EAST ELEVATION
AC103 SCALE: 1/2" = 1'-0"



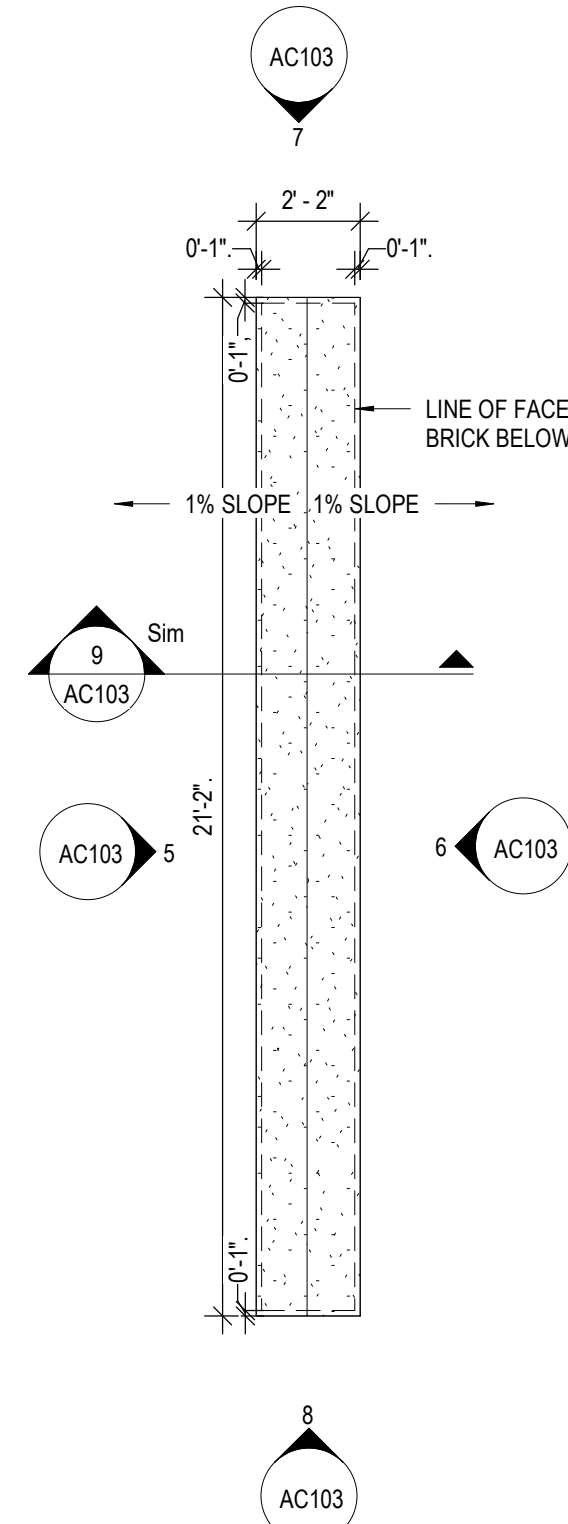
5 WEST ELEVATION
AC103 SCALE: 1/2" = 1'-0"



1 FOUNDATION PLAN
AC103 SCALE: 1/4" = 1'-0"



2 ABOVE GRADE PLAN
AC103 SCALE: 1/4" = 1'-0"



3 CONCRETE CAP PLAN
AC103 SCALE: 1/4" = 1'-0"

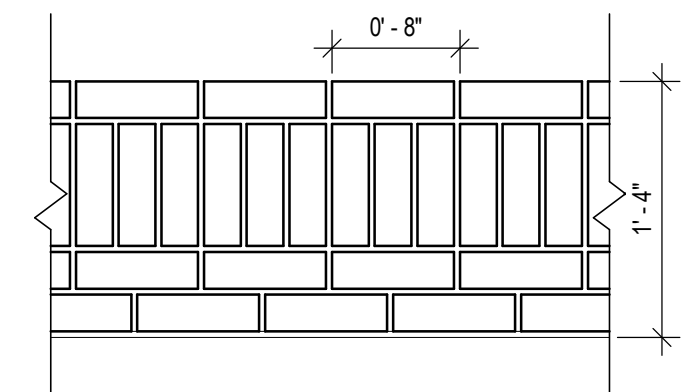
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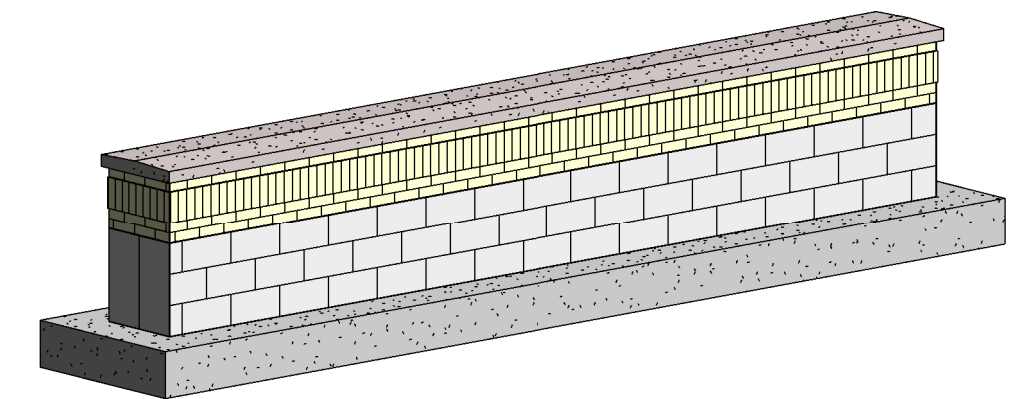
ARCH NEW WORK KEYED NOTES

NUMBER	DESCRIPTION
3.1	CONCRETE FOOTING.
3.2	STRUCTURAL FOOTING. SEE SECTION DETAIL THIS SHEET.
3.10	ROUGHEN TO 1/4" MIN. AMPLITUDE.
3.11	STANDARD 90 DEG. HOOK.
3.19	(4)#5 CONTINUOUS, TOP & BOTTOM.
3.20	#5 @ 1'-0" OC TOP & BOTTOM.
3.21	#5 DOWEL, @ 1'-0" OC.
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4.3	BRICK VENEER. BASIS OF DESIGN:
4.5	WALL CAP. SET ON TOP OF MASONRY WITH STEEL DOWELS AND FULL BED OF MORTAR.
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4.7	12" (NOM.) CMU.
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4.14	SOLDIER COURSE BOND BRICK VENEER W/ 3/8" OFFSET. MATCH EXISTING.
4.21	CONTINUOUS BOND BEAM W/ (1) #4, GROUT SOLID.
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7.1	EXPANSION JOINT FILLER MATERIAL AND/OR JOINT SEALANT.
32.1	EXTERIOR GRADE OR PAVING. SEE CIVIL DRAWINGS.

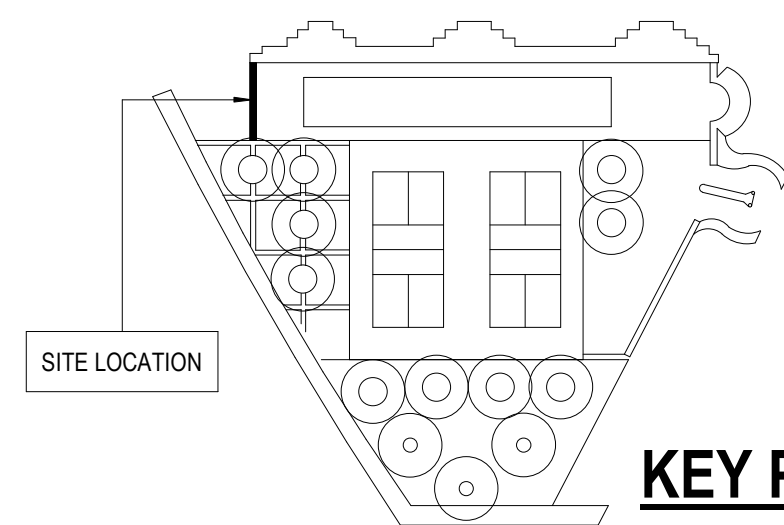
NOTE:
GRADING NOT SHOWN ON ELEVATIONS.
COORDINATE WITH CIVIL DRAWINGS FOR GRADING.



10 BRICK PATTERN DETAIL
AC103 SCALE: 1" = 1'-0"



11 WEST SEATING WALL ISOMETRIC
AC103 SCALE: 1" = 1'-0"



KEY PLAN

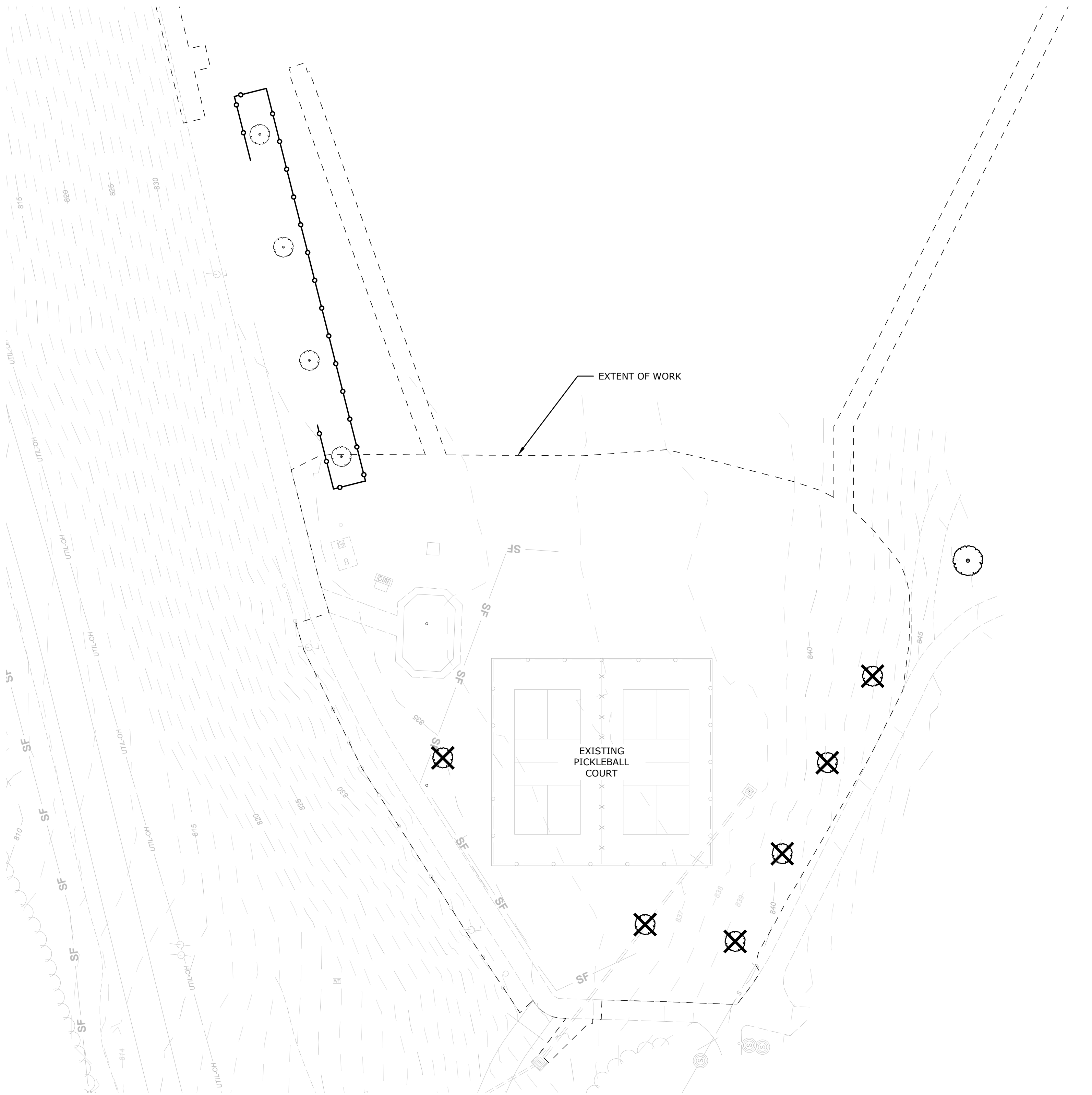
verdantas

DATE	REVISION	NO	BID	ISSUED FOR:	ISSUE DATE:	SCALE:	DESIGNED BY:	DRAWN BY:	CHECKED BY:
					11/04/2025	As Indicated	J. DEGRAAF	V. PETRO	J. DEGRAAF

THE COMMONS AT HIGHLAND HEIGHTS
CENTRAL COMMONS IMPROVEMENTS
HIGHLAND HEIGHTS, KY

WEST SEATING WALL

PROJECT NO.	241829
DISCIPLINE	ARCHITECTURAL
SHEET NAME	AC103
SHEET	23
OF	31

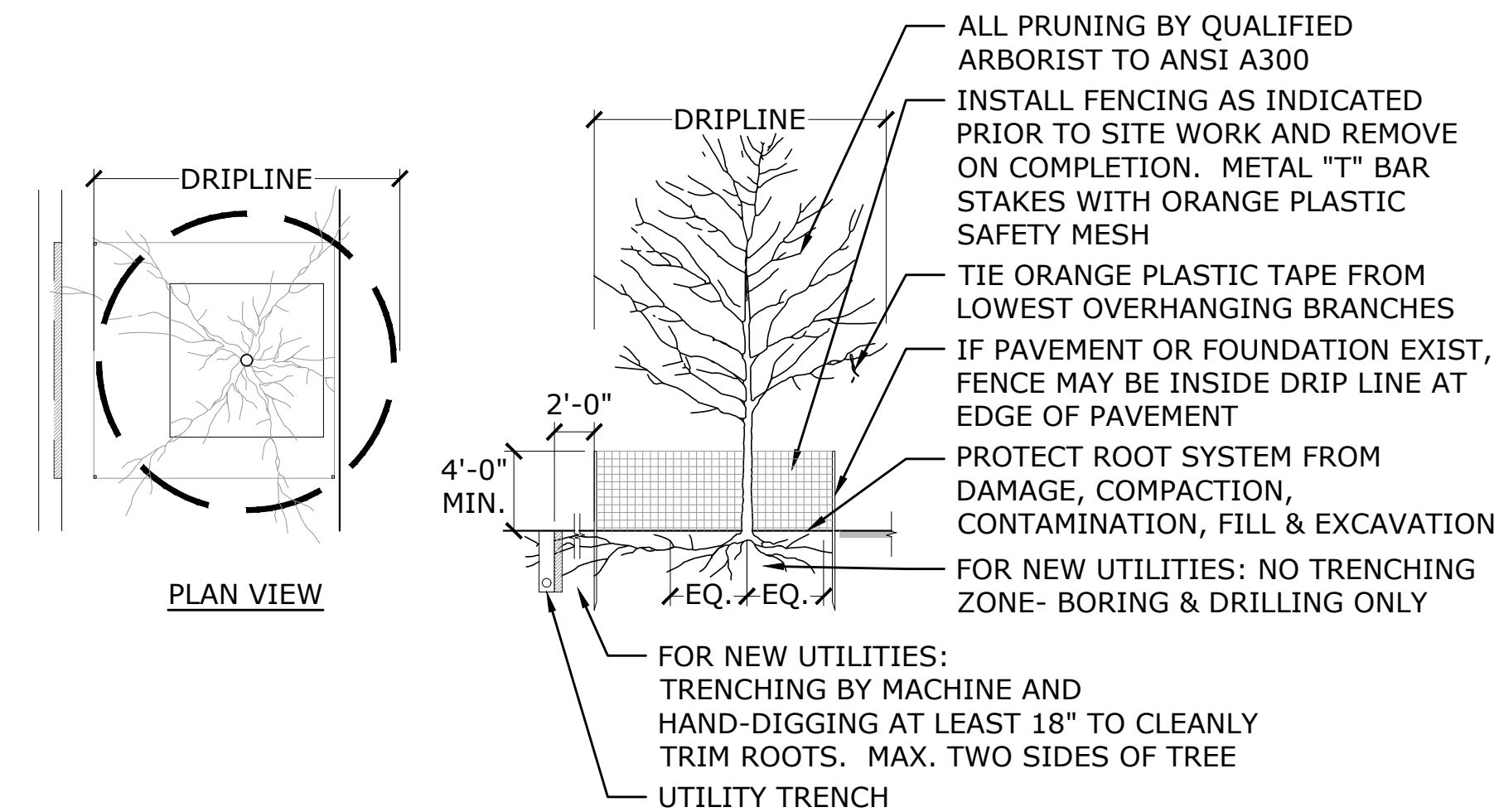


1 **TREE PRESERVATION AND REMOVAL PLAN**
LTP100 SCALE: 1" = 20'-0"

LEGEND - TREE PRESERVATION SYMBOLS		
KEY	ITEM	COMMENTS
	EXISTING TREE TO BE REMOVED	COORDINATE WITH CERTIFIED ARBORIST PROVIDED BY CONTRACTOR
	EXISTING TREE TO REMAIN & BE PROTECTED	SEE NOTES, COORDINATE WITH CERTIFIED ARBORIST PROVIDED BY CONTRACTOR
	TREE PRESERVATION FENCING	ORANGE CONSTRUCTION TYPE FENCING, 4' HIGH WITH METAL POSTS SUPPORTING FENCE MATERIAL APPROX. 8' O.C.

GENERAL NOTES

- THIS PLAN REPRESENTS TREES TO BE REMOVED AND TREE PROTECTION DURING REMOVAL AND DEMOLITION.
- PRESERVE ALL TREES NOT INDICATED FOR REMOVAL AS SPECIFIED. HAND EXCAVATE/PRUNE ROOTS WHERE NOTED, IN COORDINATION WITH CERTIFIED ARBORIST.
- TREE PRESERVATION FENCING LAYOUT AS SHOWN ON TREE PRESERVATION PLAN. REVIEW FENCE LOCATION WITH OWNER AND LANDSCAPE ARCHITECT PRIOR TO ANY EXCAVATION.
- CONTRACTOR RESPONSIBLE FOR REMOVING TREES AS INDICATED ON PLAN IN A SAFE MANNER WITHOUT DAMAGE TO PROPERTY AND SURROUNDING TREES. ANY DAMAGES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR TO THE OWNER'S SATISFACTION. FOLLOW ALL SAFETY REGULATIONS, ISA & OSHA STANDARDS ANSI Z133.1, SAFETY OF THE PUBLIC AND WORKERS IS TO BE PRIMARY CONSIDERATION IN THE WORK.
- CONTRACTOR TO RECOMMEND & MANAGE CONSTRUCTION ACCESS WITH MINIMUM IMPACT TO TREES AND EXISTING SITE ELEMENTS. COMPLETE RESTORATION OF THE ACCESS IS REQUIRED. OWNER TO APPROVE ACCESS BY CONTRACTOR.
- WHERE WORK IS TO OCCUR CLOSE TO AN EXISTING TREE TO BE PRESERVED, ROOT CUTS SHALL BE MARKED IN THE FIELD BY THE CONTRACTOR AND REVIEWED BY THE OWNER, CERTIFIED ARBORIST AND OWNER'S REPRESENTATIVE PRIOR TO CUTTING. CONTRACTOR TO USE AIR SPADE TO LOCATE TREE ROOTS.
- DURING THE EXCAVATION PROCESS, IF ROOTS GREATER THAN 2" DIA. THAT HAVE NOT BEEN ROOT PRUNED ARE ENCOUNTERED, THEY SHALL BE CUT WITH A SAW OR SHARP AXE AND NOT RIPPED WITH THE EARTH MOVING EQUIPMENT, AS DIRECTED BY THE CERTIFIED ARBORIST.
- ASSESSMENT BY THE CONTRACTOR IS REQUIRED PER AREA OF WORK TO ENSURE THERE IS ADEQUATE CLEARANCE TO DO WORK UNDER EXISTING TREES TO REMAIN. REVIEW ANY CLEARANCE ISSUES WITH THE CERTIFIED ARBORIST. ALL REQUIRED TRIMMING SHALL BE PERFORMED BY A CERTIFIED ARBORIST AS NEEDED.
- EVERY WORKER ON SITE SHALL BE MADE AWARE OF ALL TREE PRESERVATION MEASURES AND THE IMPORTANCE OF ADHERING TO THE MEASURES OUTLINED IN THESE DOCUMENTS.
- CONTRACTOR SHALL PROVIDE TREE PRESERVATION PLAN THAT SUPPLEMENTS AND ADDS DETAIL TO THIS PLAN IN COORDINATION WITH CONSTRUCTION SEQUENCE, SCHEDULE, AND CERTIFIED ARBORIST. THE CONTRACTOR'S PLAN SHALL SUPPLEMENT THIS PLAN. THE PLAN PRODUCED BY THE CONTRACTOR SHALL BE REVIEWED BY THE CERTIFIED ARBORIST, OWNER, AND LANDSCAPE ARCHITECT.
- ALL DISTURBANCE TO EXISTING TREES SHALL BE LIMITED DURING THE TREES ACTIVE GROWING SEASON. IF DISTURBANCE IS REQUIRED DURING ACTIVE GROWING SEASON, ADDITIONAL MEASURES MAY BE NEEDED TO PROTECT THE TREE IN ACCORDANCE WITH THE CERTIFIED ARBORIST. THESE MEASURES INCLUDE BUT ARE NOT LIMITED TO: MULCHING DISTURBED ROOTS AND TEMPORARY IRRIGATION OF DISTURBED TREES. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING TREE PRESERVATION MEASURES THROUGHOUT THE DURATION OF THE PROJECT. VIOLATIONS OF ANY TREE PRESERVATION MEASURE WILL BE FINED ACCORDING TO SPECIFICATIONS.
- FOR FULL TREE PRESERVATION SPECIFICATIONS SEE 02 41 01.



2 **TREE PROTECTION FENCING**
LTP100 SCALE: 1/8" = 1'-0"



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NATURE**

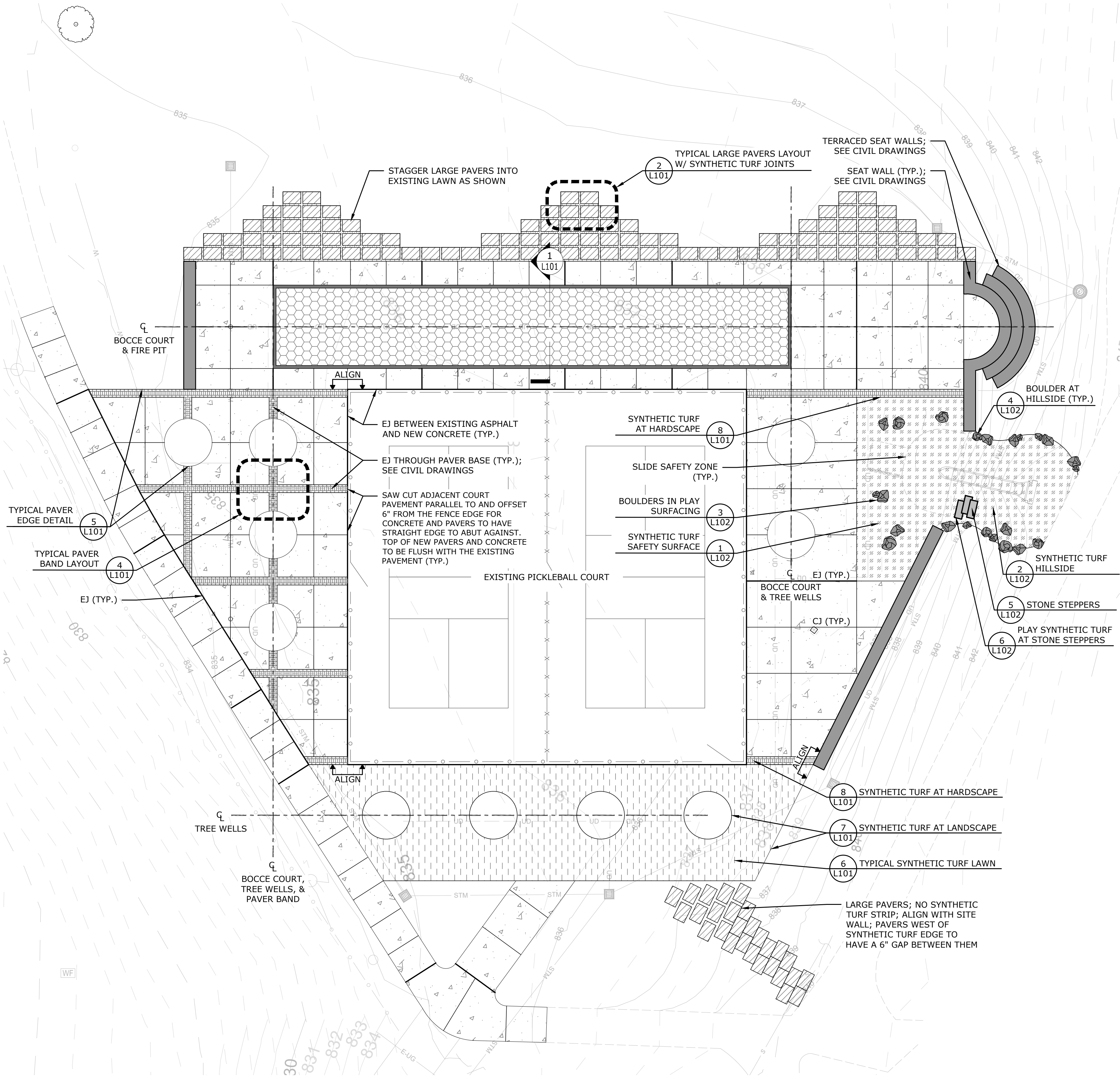
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DRAWN BY:	JR			
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**THE COMMONS AT HIGHLAND HEIGHTS
CENTRAL COMMONS IMPROVEMENTS
HIGHLAND HEIGHTS, KY**

TREE PRESERVATION

PROJECT NO. 241829	
DISCIPLINE LANDSCAPE	
SHEET NAME LTP100	
SHEET 24	OF 31



1
L100
HARDSCAPE MATERIALS PLAN
SCALE: 1" = 10'-0"

GENERAL NOTES

1. BASE INFORMATION PROVIDED BY CT CONSULTANTS, 4420 COOPER ROAD, SUITE 200, BLUE ASH, OHIO 45242, 513.791.1700.
2. CONTRACTOR SHALL LOCATE ALL UTILITIES, STRUCTURES, PAVEMENT AND VEGETATION TO REMAIN, AND TAKE THE NECESSARY PRECAUTIONS FOR THEIR PROTECTION DURING CONSTRUCTION. ANY FIELD ADJUSTMENTS REQUIRED SHALL BE REVIEWED BY THE LANDSCAPE ARCHITECT PRIOR TO IMPLEMENTATION.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR MEETING ALL APPLICABLE FEDERAL, STATE AND LOCAL CODES, LAWS, ORDINANCES, RULES AND REGULATIONS DURING THE COURSE OF THIS PROJECT, INCLUDING BUT NOT LIMITED TO OSHA REQUIREMENTS FOR PUBLIC AND WORKER SAFETY.
4. CONTRACTOR SHALL COORDINATE WITH THE WORK OF OTHER TRADES TO ENSURE PROPER AND TIMELY EXECUTION OF THE WORK.
5. THESE NOTES APPLY TO ALL L SERIES SHEETS.

HARDSCAPE NOTES

1. SEE CIVIL ENGINEER DRAWINGS FOR ALL PAVING CROSS SECTIONS AND BASE REQUIREMENTS AND JOINTING TYPES. JOINTING LOCATIONS AS SHOWN ON HARDSCAPE PLAN.
2. ALL ANGLES ARE 90° UNLESS OTHERWISE NOTED.
3. 4'x4' MOCK-UP REQUIRED FOR ALL PAVING TYPES. MOCK-UP MAY ULTIMATELY BE PART OF FINISHED PAVED AREA IF APPROVED. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
4. DIGITAL LAYOUT INFORMATION PROVIDED BY CIVIL ENGINEER. SEE CIVIL ENGINEER'S DRAWINGS FOR MORE INFORMATION.
5. COORDINATE ALL ELECTRICAL UTILITIES & DRAINAGE STRUCTURES WITH HARDSCAPE ELEMENTS; CONTRACTOR TO NOTIFY LANDSCAPE ARCHITECT OF ANY CONFLICTS AND RESOLVE ISSUES IN THE FIELD.
6. CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR ALL CONTROL JOINTING. ALL JOINTS TO BE SAWCUT. EXPANSION JOINT MATERIAL AT RIGHT-OF-WAY.
7. 1/2" EXPANSION JOINTS TO BE PLACED AT BUILDING EDGES, ALL FIXED FOUNDATIONS OR OBJECTS AND WHERE SHOWN ON PLAN.
8. ALL SYNTHETIC TURF AREAS WILL HAVE UNDERDRAINS AND TIED INTO THE STORM SYSTEM, COORDINATE WITH CIVIL ENGINEER'S DRAINAGE PLANS.
9. ALL UNIT PAVERS THAT MEET SOFT LANDSCAPE EDGE, RATHER THAN BUILDING, WALL OR CONCRETE SHALL REQUIRE EDGING AS SPECIFIED AND SHOWN IN HARDSCAPE DETAILS.
6. PROVIDE OWNER WITH 10% OF PAVERS IN PROJECT FOR ATTIC STOCK.

HARDSCAPE AND MATERIALS SCHEDULE

KEY	ITEM	FINISH/ PRODUCT	COLOR	SUPPLIER (BASIS OF DESIGN OR APPROVED EQUAL)
	CONCRETE	SAW CUT JOINTS; LIGHT BROOM FINISH; NO TOOL MARKS	STANDARD	N/A
	SYNTHETIC TURF SAFETY SURFACE	PLAYGROUND GRASS ULTRA	GREEN	FOREVERLAWN KENTUCKIANA 10319 IN-62, Charlestown, IN 47111 CONTACT: Kerri Vaughn 502.379.1180 kerri@kyin.foreverlawn.com
	SYNTHETIC TURF BOCCES COURT	BOCCEGRASS COURT	GREEN	FOREVERLAWN KENTUCKIANA 10319 IN-62, Charlestown, IN 47111 CONTACT: Kerri Vaughn 502.379.1180 kerri@kyin.foreverlawn.com
	SYNTHETIC TURF LAWN	FUSION ELITE	GREEN	FOREVERLAWN KENTUCKIANA 10319 IN-62, Charlestown, IN 47111 CONTACT: Kerri Vaughn 502.379.1180 kerri@kyin.foreverlawn.com
	LARGE PAVERS	24"x36" ARCHITECTURAL PAVER	PAVERS: PG-27	NITTERHOUSE MASONRY PRODUCTS 859 Cleveland Ave., Chambersburg, PA 17201 717.268.4137 nitterhousemasonry.com
	PAVER BAND	4"x8" TRADITIONAL PREST BRICK PAVER	TAN; PRIOR TO ORDERING, PROVIDE SAMPLE BRICK TO LA FOR FINAL COLOR CONFIRMATION TO BE COORDINATED WITH ARCHITECT'S BRICK SELECTION	HANOVER PAVERS 5000 Hanover Rd, Hanover, PA 17331 800.426.4242 hanoverpavers.com
	BOULDERS	GLACIAL GRANITE	SIZE: 24" - 48" LA TO SELECT BOULDERS AT SUPPLIER	SEMCO OUTDOOR 11864 Chesterdale Rd, Cincinnati, OH, 45246 937-464-9094 www.semcooutdoor.com
	STONE STEPS	CANYON GRAY	SIZE: VARIES 6"-8" THICK; 3' LONG	SEMCO OUTDOOR 11864 Chesterdale Rd, Cincinnati, OH, 45246 937-464-9094 www.semcooutdoor.com
	SEAT WALL	SEE CIVIL DRAWINGS		



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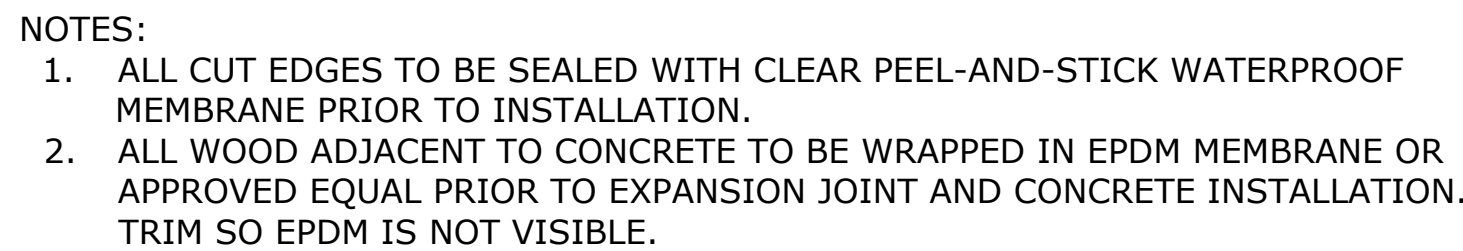
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THE COMMONS AT HIGHLAND HEIGHTS
CENTRAL COMMONS IMPROVEMENTS
HIGHLAND HEIGHTS, KY

HARDSCAPE

PROJECT NO. 241829	
DISCIPLINE LANDSCAPE	
SHEET NAME L100	
SHEET 25	OF 31



TREE WELL

RUNNING BOND

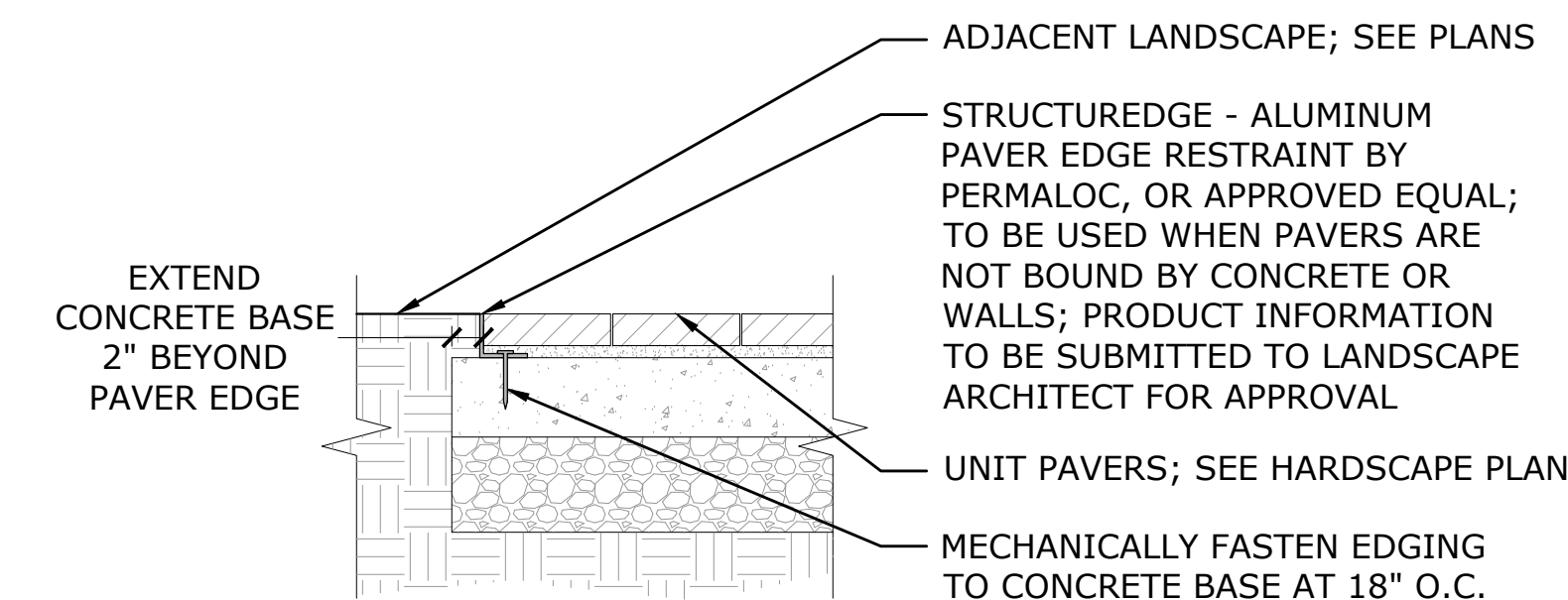
END RUN AT BAND INTERSECTION AND TREE WELL WITH WHOLE PAVERS; CUT PAVERS IN MIDDLE OF RUN OVER 2-3 GROUPINGS AS NEEDED BUT WITH NO LESS THAN 1/2 PAVER WIDTH AND LENGTH

SINGLE SOLDIER COURSE AS SHOWN

NO GAPS BETWEEN PAVERS GREATER THAN 1/2" (TYP.)

TREE WELL

5 **TYPICAL PAVER EDGE DETAIL**
L101 SCALE: 1" = 1'-0"



4" SYNTHETIC TURF JOINT

6" NON-GALVANIZED NAIL PER DETAIL 2/L101

2"

6"

LARGE PAVERS;
SEE HARDSCAPE PLAN

COMPACTED ODOT 304
GRAVEL BASE

WOVEN FILTER FABRIC

COMPACTED SUBGRADE,
98% STD. PROCTOR

1"

3"

SYNTHETIC GRASS SURFACING:
FORMED TO SUBGRADE WITHOUT
GAPS, WRINKLES OR PUCKERING.
INFILL AS REQUIRED.

COMPACTED $\frac{3}{8}$ " CLEAN ANGULAR
LIMESTONE

$\frac{3}{4}$ " ANGULAR CRUSHED LIMESTONE,
NO MORE THAN 20% FINES

SLOPE SUBGRADE TO UNDERDRAINS

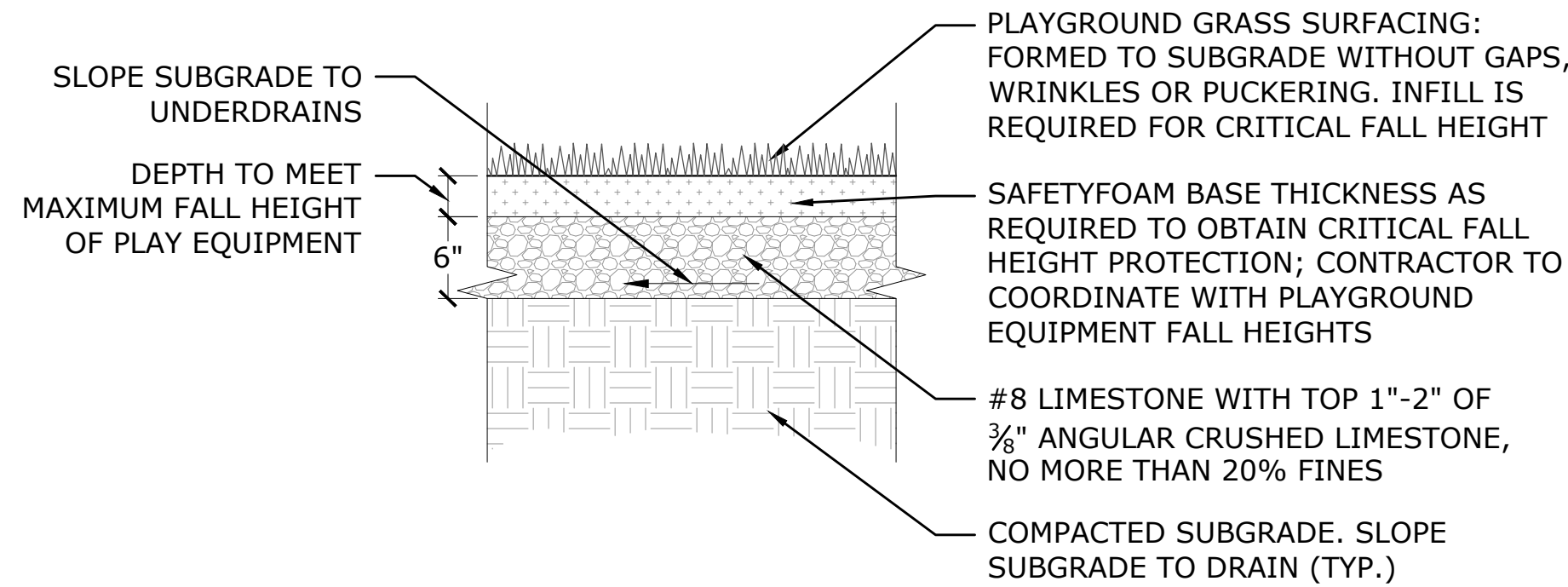
COMPACTED SUBGRADE. SLOPE
SUBGRADE TO DRAIN (TYP.)

Diagram illustrating the cross-section of a synthetic turf installation:

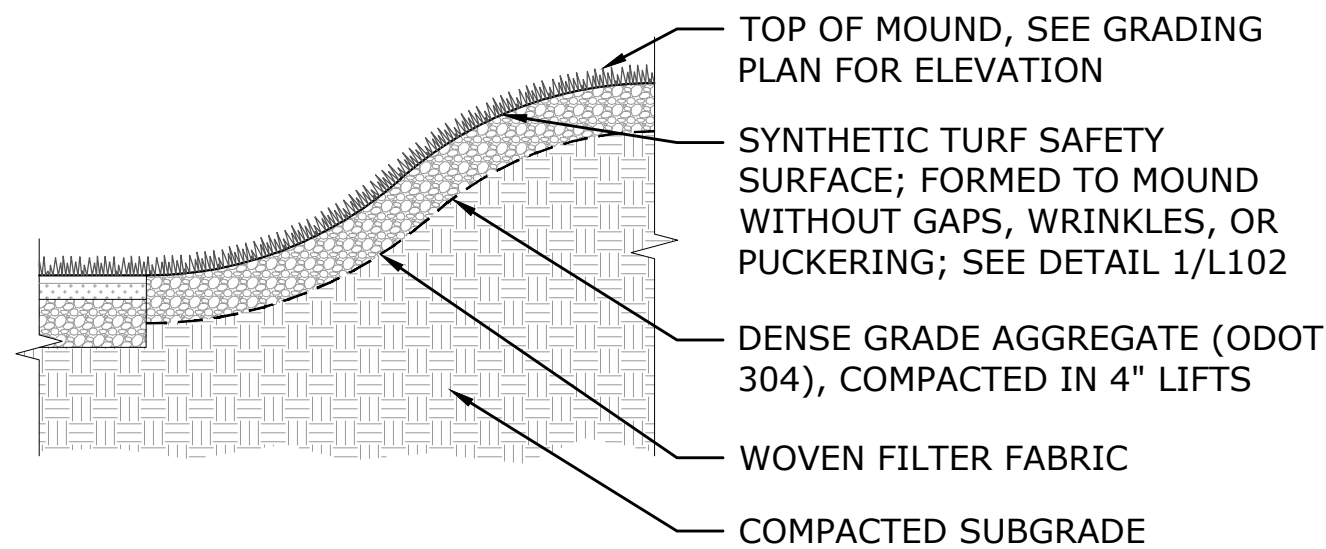
- ADJACENT LANDSCAPE; SEE PLANS
- TURF ROLLED OVER AND STAPLED ON TOP OF NAILER BOARD WITH STAINLESS STEEL STAPLES
- SYNTHETIC TURF; REFER TO HARDSCAPE PLANS FOR TYPE
- PERIMETER NAILER BOARD: TRIMAX 2"x4" OR 2"x2"
- STRUCTURAL PLASTIC LUMBER SECURED BY 18" REBAR EVERY 4 FEET ON CENTER
- COMPACTED SUBGRADE

Diagram illustrating the installation of synthetic turf over a concrete paver ledge. The layers shown are:

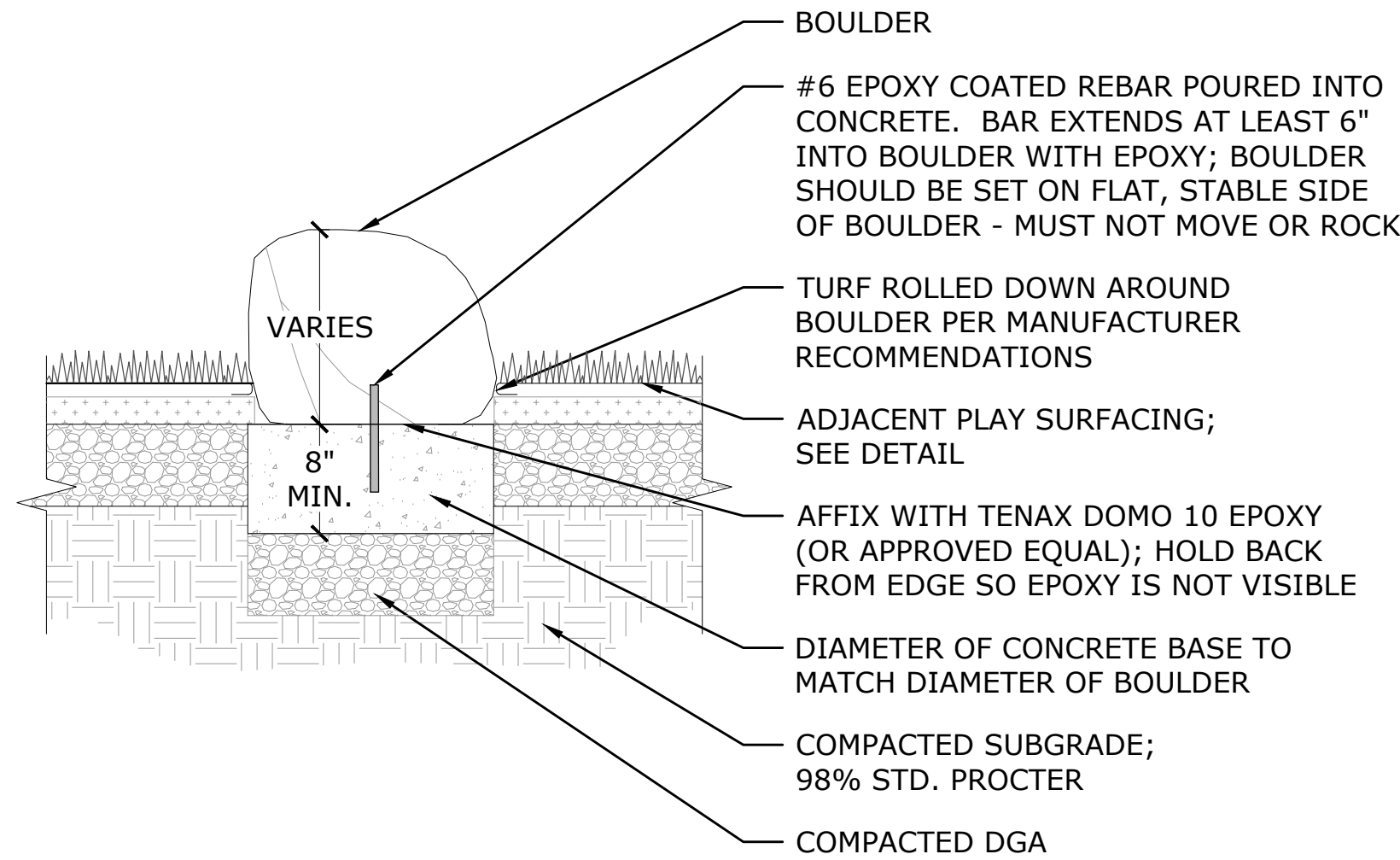
- ADJACENT HARDSCAPE
- FOR EDGES AT PAVERS, TURF SHOULD HAVE ADHESIVE ATTACHED TO CONCRETE PAVER LEDGE IN ADDITION TO NAILER BOARD
- SYNTHETIC TURF; REFER TO HARDSCAPE PLANS FOR TYPE
- TURF ROLLED OVER AND STAPLED ON TOP OF NAILER BOARD WITH STAINLESS STEEL STAPLES
- PERIMETER NAILER BOARD: TRIMAX 2"x4" OR 2"x2" STRUCTURAL PLASTIC LUMBER MECHANICALLY FASTENED TO CONCRETE WITH STAINLESS STEEL FASTENER EVERY 2 FEET
- COMPACTED SUBGRADE



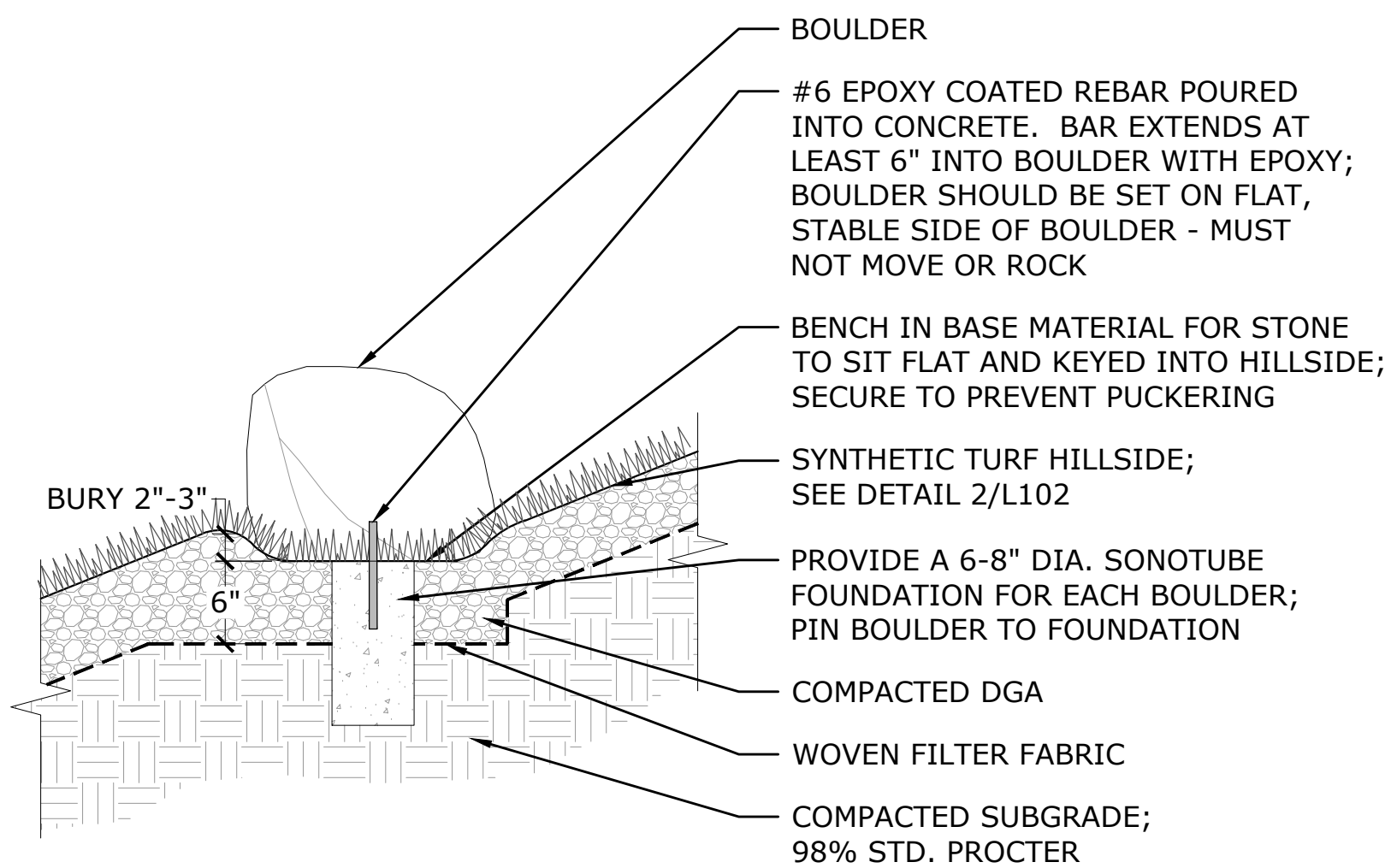
1
L102
SYNTHETIC TURF SAFETY SURFACE
SCALE: 1" = 1'-0"



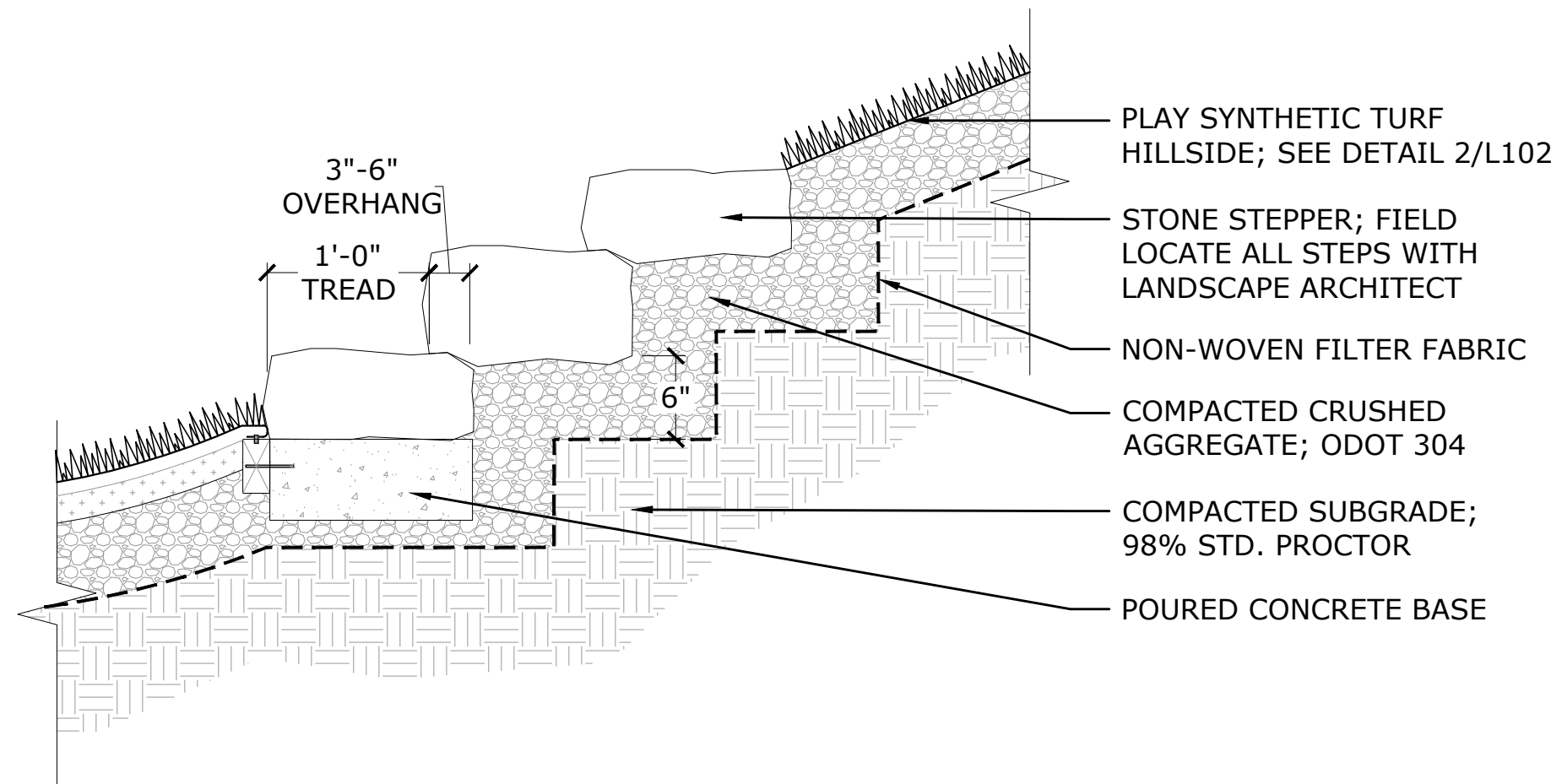
2
L102
SYNTHETIC TURF HILLSIDE
SCALE: 1/2" = 1'-0"



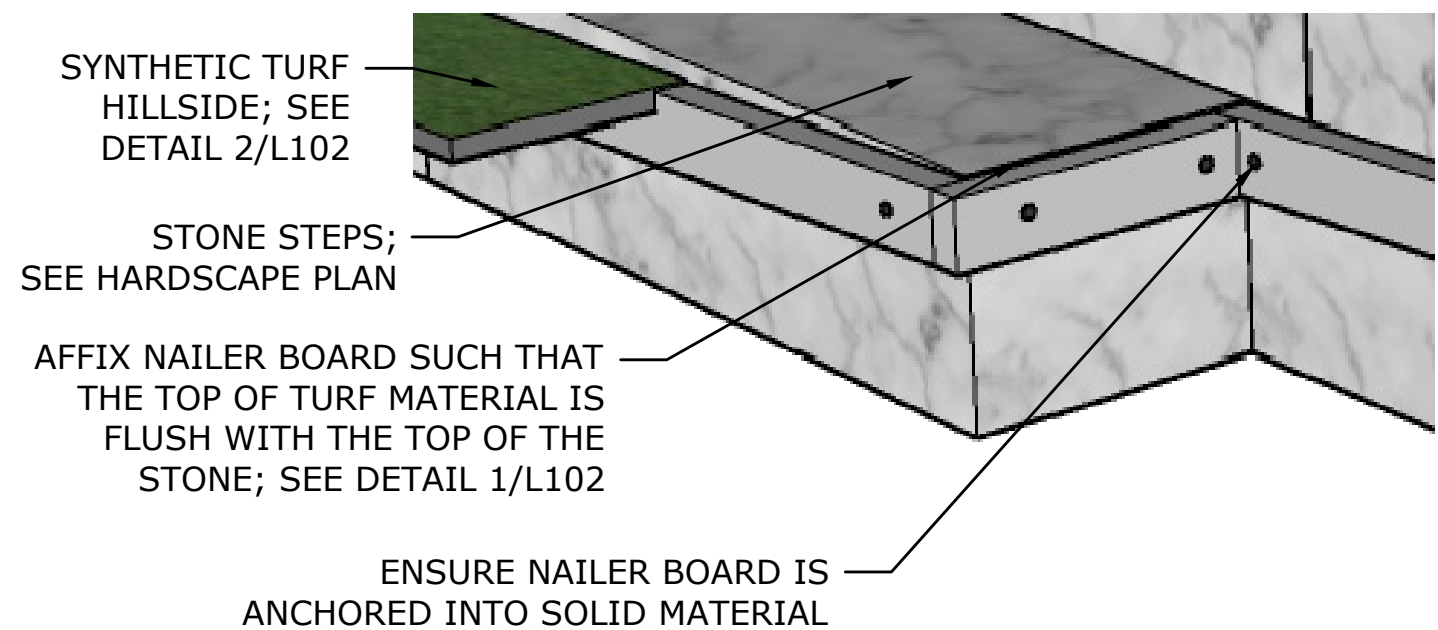
3
L102
BOULDERS IN PLAY SURFACING
SCALE: 1" = 1'-0"



4
L102
BOULDER AT HILLSIDE
SCALE: 1" = 1'-0"



5
L102
STONE STEPPERS
SCALE: 1" = 1'-0"



6
L102
PLAY SYNTHETIC TURF AT STONE STEPPERS
SCALE: 1/2" = 1'-0"

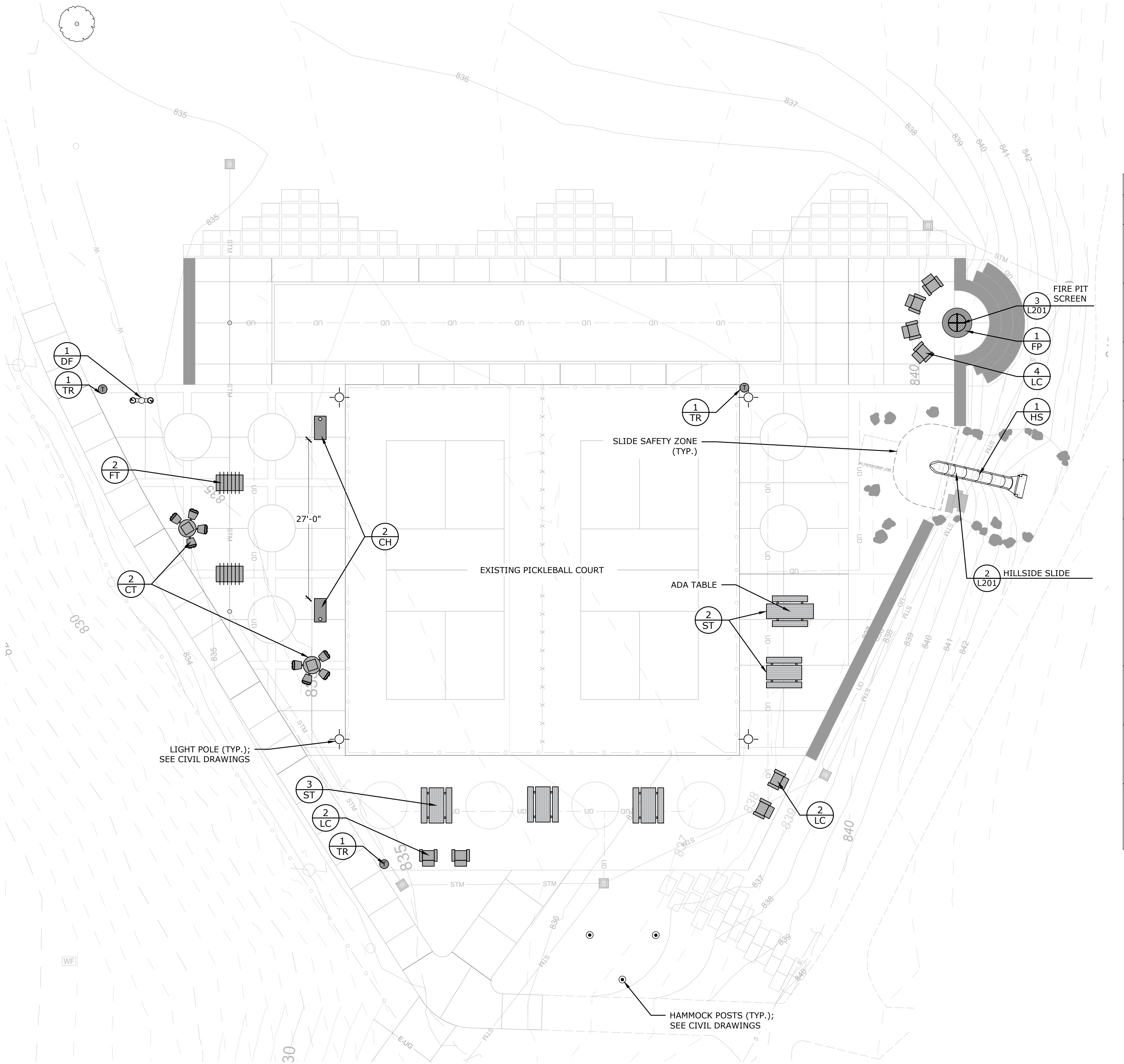


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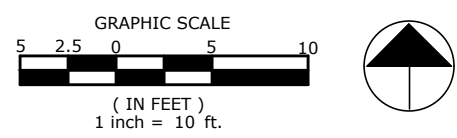
THE COMMONS AT HIGHLAND HEIGHTS
CENTRAL COMMONS IMPROVEMENTS
HIGHLAND HEIGHTS, KY

HARDSCAPE DETAILS

PROJECT NO. 241829	
DISCIPLINE LANDSCAPE	
SHEET NAME L102	
SHEET 27	OF 31



1
L200 FURNISHINGS PLAN
SCALE: 1" = 10'-0"



PLANTING NOTES

1. INSTALLATION OF ALL FURNISHINGS PER MANUFACTURER'S RECOMMENDATIONS.
2. ALL METAL FINISHES TO BE AS NOTED IN THE FURNISHINGS SCHEDULE. SUBMIT SAMPLES FOR REVIEW BY LANDSCAPE ARCHITECT PRIOR TO ORDERING.
3. FIELD LOCATE AND STAKE ALL FURNISHINGS AND REVIEW LOCATION WITH LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
4. SUBMIT SHOP DRAWINGS AND MANUFACTURER'S PRODUCT DATA FOR ALL FURNISHINGS INCLUDING, FENCE, AND PLAYGROUND EQUIPMENT FOR REVIEW BY LANDSCAPE ARCHITECT. SUPPLIER/CONTRACTOR RESPONSIBLE FOR STRUCTURAL INTEGRITY OF FENCING.

FURNISHINGS SCHEDULE

KEY	ITEM	MODEL	COLOR/ OPTIONS	SUPPLIER (BASIS OF DESIGN OR APPROVED EQUAL)
(# LC)	LOUNGE CHAIR	533-22 ADIRONDACK CHAIR W/ ARMRESTS	SLATS: IPE FRAME: RECYCLE BLUE	DUMOR 138 Industrial Circle, Millintown, PA 17059 800.598.4018 dumor.com
(# CT)	CAFE TABLE	N-H-364; SURFACE MOUNT; SOLID TOP W/ GAMEBOARD	SLATS: IPE FRAME: BLACK	VICTOR STANLEY 2103 Brickhouse Rd, Dunkirk, MD 20754 301.855.8300 victorstanley.com
(# ST)	PICNIC TABLE	PT-2; SURFACE MOUNT; 1 TABLE TO BE ADA ACCESSIBLE	SLATS: IPE FRAME: BLACK	VICTOR STANLEY 2103 Brickhouse Rd, Dunkirk, MD 20754 301.855.8300 victorstanley.com
(# FT)	FOOSBALL TABLE	OUTDOOR CONCRETE FOOSEBALL TABLE	NATURAL CONCRETE GRAY	ANOVA FURNISHINGS 1424 Talmage Ave, St. Louis, MO 36110 800.325.3047 anovafurnishings.com
(# CH)	CORNHOLE	CORN HOLE	IRON; SMOOTH FINISH	SPRUCE AND GANDER 1780 La Costa Meadows Dr, Suite104, San Marcos, CA 92078 CONTACT: Greg LaVal 760.650.5911 greg@spruceandgander.com
(# FP)	FIRE PIT WITH FIRE SCREEN	60" DIA X 18"H BLOCK INFINITY FIRE PIT 36" ROUND LIFT OFF DOME W/ 6" RISE WELDED TO BOTTOM FRAME; 12" SCREEN CENTER HEIGHT; 1 SIDE HANDLE; ANCHOR TO FIRE PIT PER MANUFACTURERS RECOMMENDATION	IRON; SMOOTH FINISH FILL: MIXED FIREBALLS 304 STAINLESS STEEL BLACK HIGH TEMPERATURE POWDER COAT	SPRUCE AND GANDER 1780 La Costa Meadows Dr, Suite104, San Marcos, CA 92078 CONTACT: Greg LaVal 760.650.5911 greg@spruceandgander.com FIRE PIT SCREENS 215 E. Jefferson St. New Buffalo, MI 49117 847.293.4684 firepitscreens.net
(# TR)	TRASH RECEPTACLE	REN-36SDSD-EJ	SIDING: IPE FRAME: BLACK	VICTOR STANLEY 2103 Brickhouse Rd, Dunkirk, MD 20754 301.855.8300 victorstanley.com
(# DF)	DRINKING FOUNTAIN	GY SERIES, MODEL GYQ84-FR03; SEE CIVIL PLANS FOR CONNECTIONS	SATIN STAINLESS	MURDOCK MANUFACTURING 15125 Pactor Ave. City of Industry, CA 91746 800-453-7465
(# HS)	HILLSIDE SLIDE	STRAIGHT SLIDEWINDER	SLIDE: TAN POSTS: TAN	LANDSCAPE STRUCTURES 601 7th St South, Delano, MI 55328 CONTACT: Livia McCrady, PlayPros 866-959-7866 Livia@playpros.com

PLAYGROUND NOTES

1. SUBMIT SHOP DRAWINGS AND MANUFACTURER'S PRODUCT DATA FOR SLIDE FOR REVIEW BY OWNER & LANDSCAPE ARCHITECT.
2. SLIDE SHALL MEET ASTM F1487-12 STANDARDS FOR SAFETY. IPEMA CERTIFICATION DOCUMENT SHALL BE SUBMITTED WITH PRODUCT CUT SHEETS, SEE SPECIFICATIONS.
3. CONTRACTOR TO HIRE A CERTIFIED PLAYGROUND SAFETY INSPECTOR (CPSI) TO ENSURE PROPER SLIDE INSTALLATION AND PROVIDE OWNER A LETTER STATING SUCCESSFUL COMPLETION OF INSPECTIONS.
4. SLIDE SHOWN ARE FOR DESIGN INTENT. PRIOR TO ORDERING AND INSTALLATION, CONTRACTOR SHALL PROVIDE DETAILED SHOP DRAWINGS, COLOR SAMPLES, MORE DETAILED LAYOUT PLAN, AND INSTALLATION REQUIREMENTS FOR REVIEW BY OWNER AND LANDSCAPE ARCHITECT .
5. CONTRACTOR, FABRICATOR, AND INSTALLER ARE RESPONSIBLE FOR STRUCTURAL INTEGRITY OF SLIDE, FOR PROPER INSTALLATION OF ALL EQUIPMENT, AND FOR MEETING ALL APPLICABLE SAFETY REQUIREMENTS.
6. ALL SAFETY SURFACING SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS AND TO MEET CRITICAL FALL ZONE REQUIREMENTS AS DETERMINED BY THE EQUIPMENT MANUFACTURER.
7. CONTRACTOR TO STAKE LOCATION OF SLIDE AND REVIEW WITH OWNER AND LANDSCAPE ARCHITECT PRIOR TO INSTALLATION. THIS INCLUDES BUT IS NOT LIMITED TO ALL EQUIPMENT, CURBS, EDGES OF SAFETY SURFACES, CONCRETE, STONE WORK, AND LANDSCAPING. CONTRACTOR TO MAKE FIELD ADJUSTMENT AFTER REVIEW.
8. ALL RADII CONNECTIONS SHALL BE SMOOTH, TANGENT ARCS AS SHOWN.
9. CONTRACTOR TO PROVIDE A SAMPLE OF SYNTHETIC TURF PRIOR TO ORDERING AND DELIVERY. CONTRACTOR TO ALSO PROVIDE MOCK UPS FOR PLAY SURFACE AND PAVING FOR REVIEW BY OWNER AND LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.



**HUMAN
NATURE**

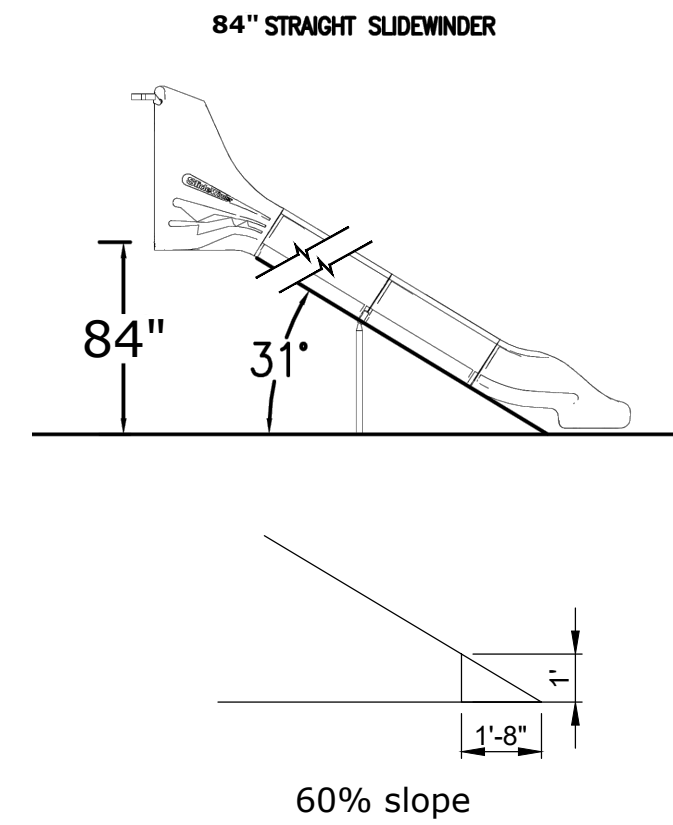
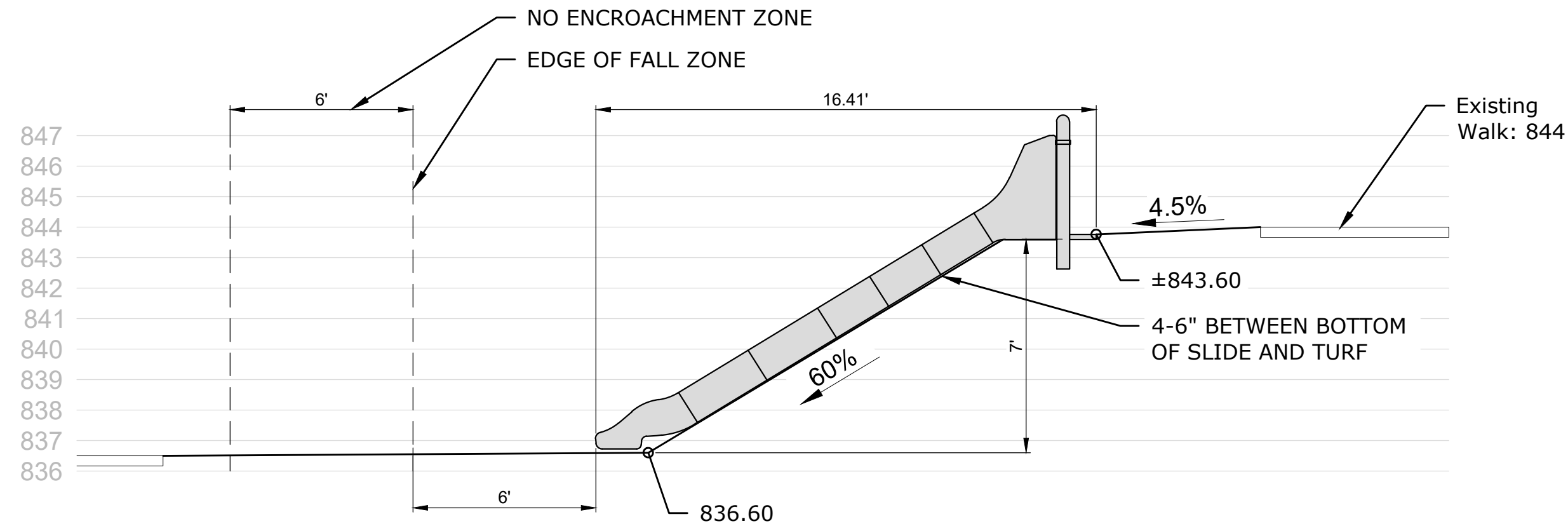
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			11/14/23			AS SHOWN	JR	JR	ND

**THE COMMONS AT HIGHLAND HEIGHTS
CENTRAL COMMONS IMPROVEMENTS
HIGHLAND HEIGHTS, KY**

FURNISHINGS

PROJECT NO. 241829	
DISCIPLINE LANDSCAPE	
SHEET NAME L200	
SHEET 28	OF 31



HILLSIDE SLIDE

FIRE PIT SCREEN

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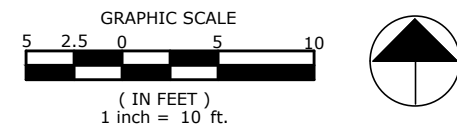
THE COMMONS AT HIGHLAND HEIGHTS

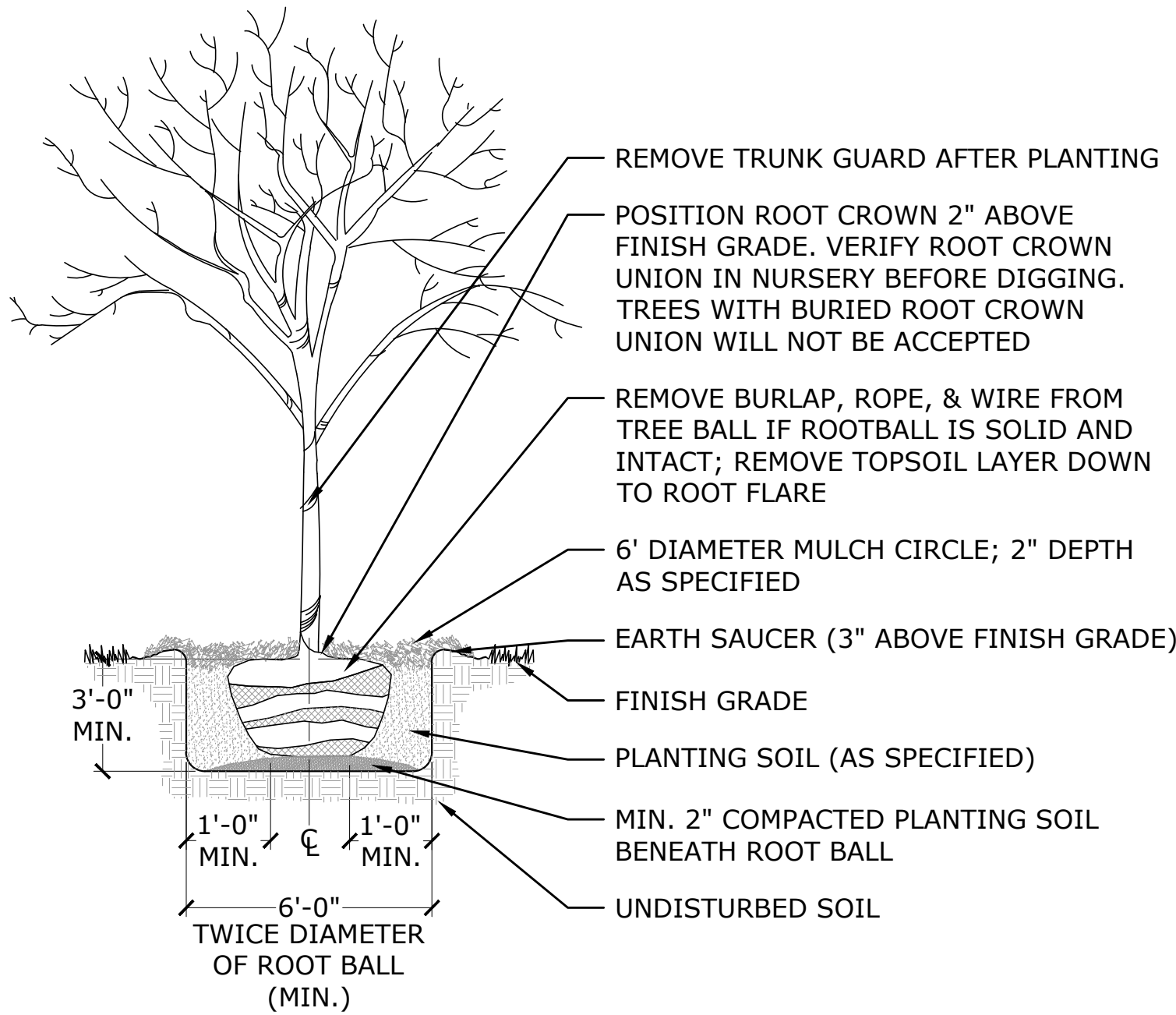
CENTRAL COMMONS IMPROVEMENTS

HIGHLAND HEIGHTS, KY

FURNISHING DETAILS

PROJECT NO.	
241829	
DISCIPLINE	
LANDSCAPE	
SHEET NAME	
L201	
SHEET	OF
29	31



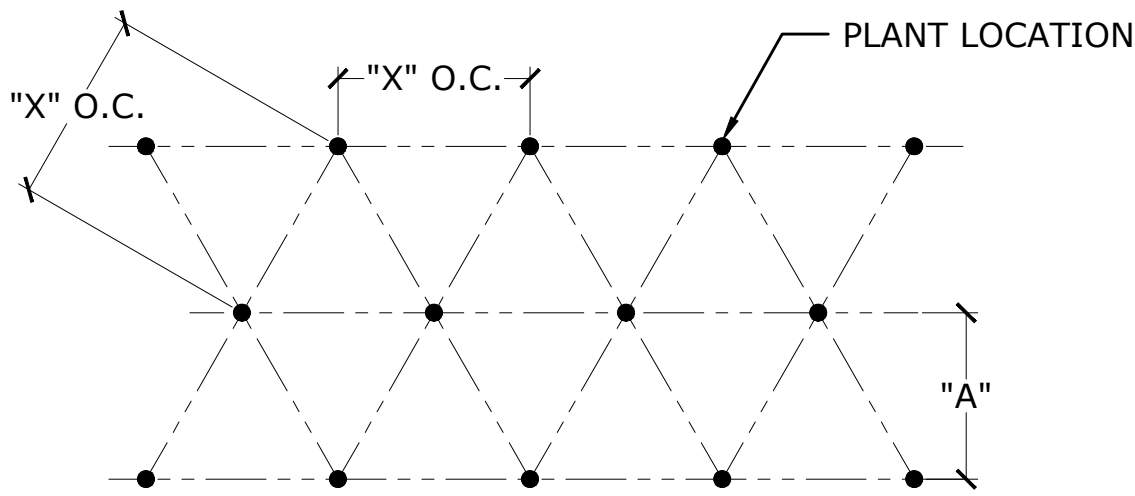


NOTES:

- EXCAVATE A PIT FOR TREE WHICH IS THREE TIMES THE DIAMETER OF THE ROOTBALL AND THE SAME DEPTH-NO DEEPER. HANDLE THE TREE BY THE ROOTBALL, NOT THE TRUNK. BE SURE THE ROOTBALL RESTS ON SOLID GROUND.
- BACKFILL WITH PLANTING SOIL.
- SATURATE THE ENTIRE BACKFILL SOIL WITH WATER. ADD MORE SOIL IF NEEDED TO COMPENSATE FOR SETTLING.
- MULCH: COVER PLANTING SOIL WITH 2 INCHES OF MULCH. LEAVE GAP NEAR THE TRUNK. REPLACE AS NEEDED.
- PRUNE ONLY BROKEN OR BADLY DEFORMED BRANCHES TO RETAIN SHAPE OF THE SPECIES. PRUNE OUT SECONDARY AND COMPETING GROWTH. DO NOT SHEAR. DO NOT CUT LEADER. BEGIN A REGULAR PRUNING PROGRAM THE SECOND YEAR AFTER PLANTING.
- CHAFING GUARDS: REMOVE GUARDS AS SOON AS THE TREE CAN STAND ALONE ABOUT 3 MONTHS OR LONGER IF NEEDED.

1 TYPICAL TREE PLANTING

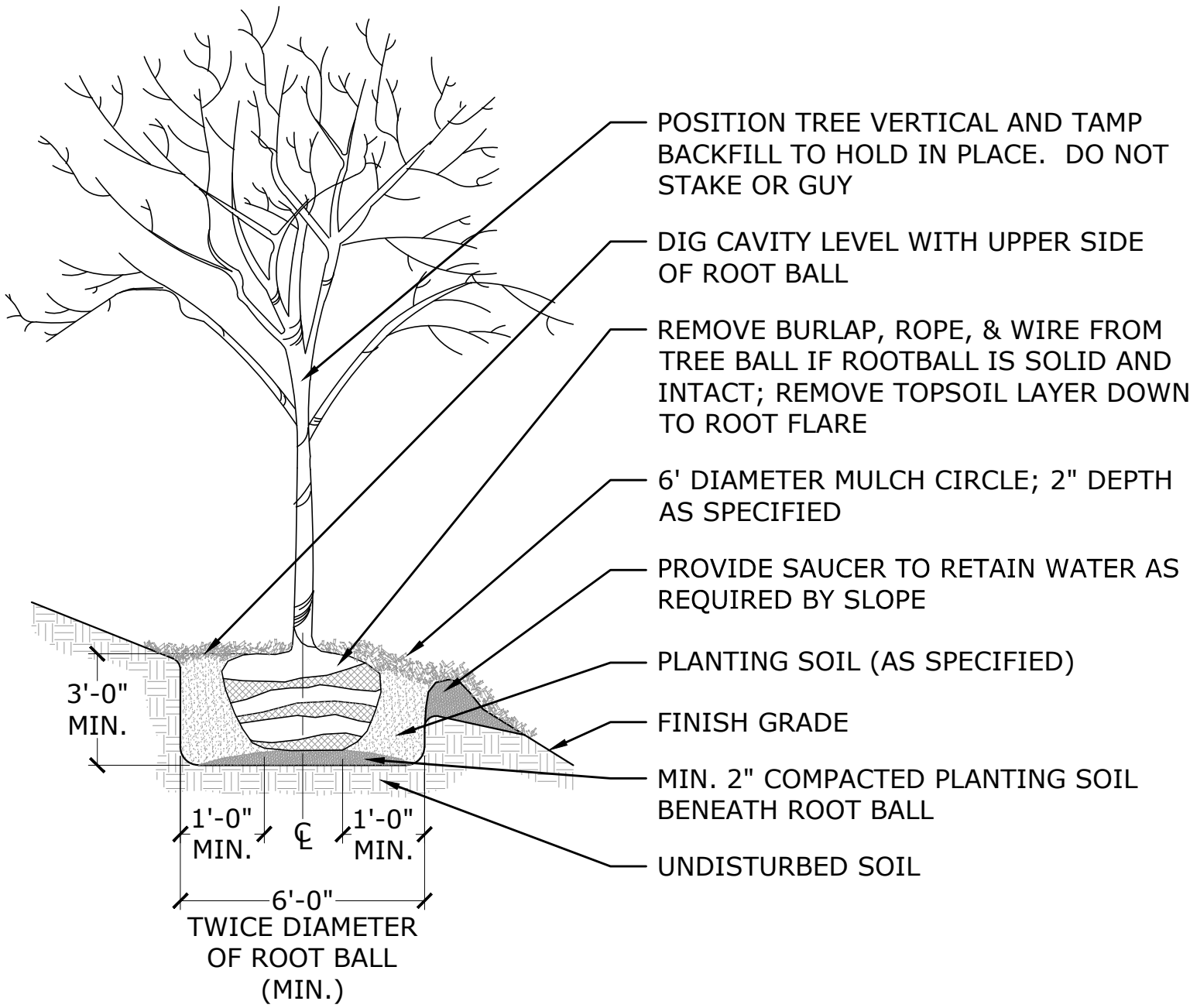
L301 SCALE: 1/4" = 1'-0"



SPACING SCHEDULE	
SPACING "X"	ROW "A"
8" O.C.	7"
12" O.C.	10 ½"
18" O.C.	15 ½"
24" O.C.	20 ½"
30" O.C.	26"
36" O.C.	31"
42" O.C.	3'-0"
5' O.C.	4'-4"

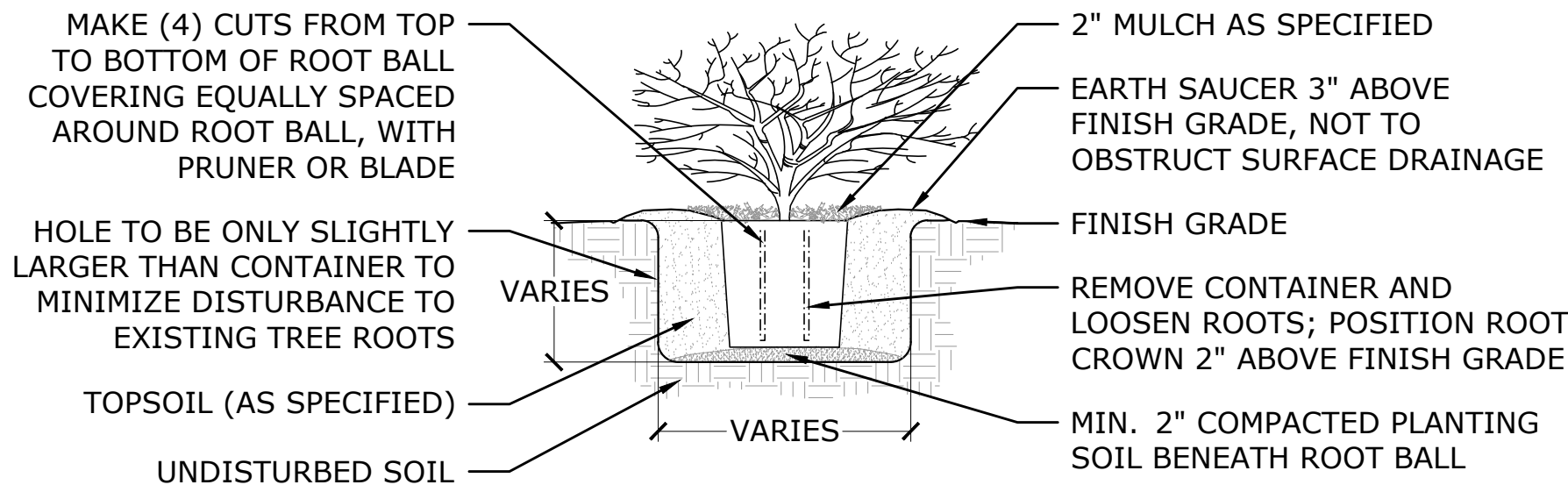
4 PLANT SPACING CHART

L301 SCALE: 1" = 1'-0"



2 TREE PLANTING ON SLOPE

L301 SCALE: 1/4" = 1'-0"



NOTES:

- DO NOT EXCAVATE LARGE AREAS FOR BED PREP OR ROTOTILL AROUND EXISTING TREE/ROOTS.
- COORDINATE ALL PLANTINGS UNDER DRIPLINE OR EXISTING TREES WITH CERTIFIED ARBORIST.
- ADJUST LAYOUT AS NECESSARY TO AVOID ROOTS. DO NOT DAMAGE TRUNKS OR ROOTS.
- HAND DIG ALL PLANT PITS.

3 TYPICAL SHRUB PLANTING

L301 SCALE: 1/2" = 1'-0"



THE COMMONS AT HIGHLAND HEIGHTS
CENTRAL COMMONS IMPROVEMENTS
HIGHLAND HEIGHTS, KY

PLANTING DETAILS

PROJECT NO. 241829	
DISCIPLINE LANDSCAPE	
SHEET NAME L301	
SHEET 31	OF 31