

# KEHRS MILL ROAD LANDSCAPE ENHANCEMENTS

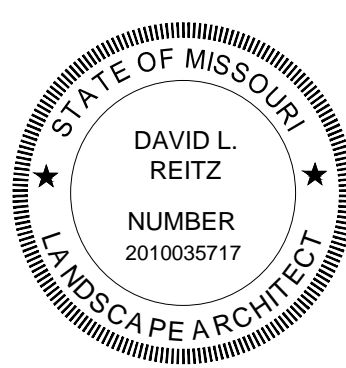
## PROJECT #2014-PW-05


### CITY OF CHESTERFIELD

### CHESTERFIELD, MISSOURI

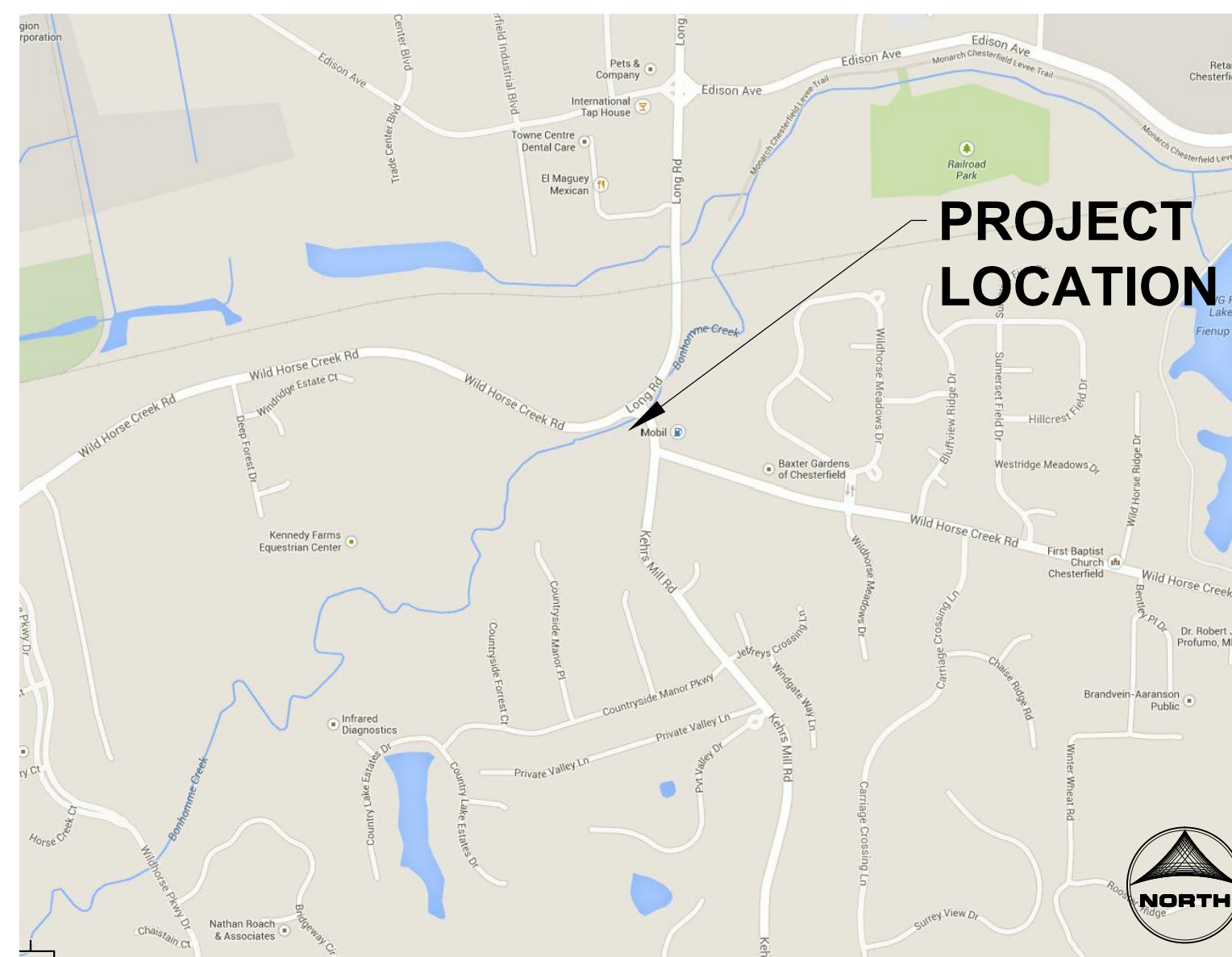
### 2016

#### CERTIFICATION

	I hereby certify that these plans were prepared by me or under my direct personal supervision and that I am a duly registered Landscape Architect under the laws of the State of Missouri.	
	DAVID L. REITZ, R.L.A.	DATE
	License Number: 2010035717 My license renewal date is December 31, 2014 Pages or sheets covered by this seal: All Sheets	

	I hereby certify that these plans were prepared by me or under my direct personal supervision and that I am a duly registered Professional Engineer under the laws of the State of Missouri.	
	JASON S. DOHRMANN, P.E.	DATE
	License Number: PE-2004017159 My license renewal date is December 31, 2014 Pages or sheets covered by this seal: All Sheets	

#### LOCATION MAP



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#### CONTACTS

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KEHRS MILL ROAD ENTRY  
CITY OF CHESTERFIELD  
CHESTERFIELD, MISSOURI

GENERAL  
COVER SHEET

SHEET NO.  
G.00

**SITE/CIVIL GENERAL NOTES:**

- ALL ITEMS OF THIS PROJECT SHALL BE GOVERNED BY SPECIFICATIONS INCLUDED IN THE DOCUMENTS LISTED BELOW:
  - "MISSOURI STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION" PREPARED BY THE DEPARTMENT OF TRANSPORTATION OF THE STATE OF MISSOURI AND ADOPTED BY SAID DEPARTMENT (LATEST EDITION).
  - "SUPPLEMENTAL SPECIFICATIONS TO MISSOURI STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION" ADOPTED BY THE MISSOURI DEPARTMENT OF TRANSPORTATION (LATEST REVISION DATE).
  - "PROTECTING WATER QUALITY: A FIELD GUIDE TO EROSION, SEDIMENT AND STORMWATER MANAGEMENT PRACTICE FOR DEVELOPMENT SITES IN MISSOURI AND KANSAS" (LATEST EDITION).
- NO DIMENSIONS SHALL BE ASSUMED BY SCALING.
- ALL SEDIMENTATION AND EROSION CONTROL REGULATIONS SHALL BE ADHERED TO PER CITY OF CHESTERFIELD REQUIREMENTS.
- AREAS TO BE FILLED SHALL BE MONITORED BY A TESTING SERVICE FOR MATERIAL COMPOSITION AND COMPACTION (CONTRACTOR RESPONSIBILITY).
- ALL TOPSOIL SHALL BE STRIPPED PRIOR TO FILLING, CONTRACTOR TO STOCKPILE TOPSOIL AS NEEDED IN THE LOCATIONS SHOWN IN THE PLANS OR APPROVED BY THE CITY/ENGINEER.
- GENERAL CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES HAVING UNDERGROUND UTILITIES ON SITE OR IN RIGHT-OF-WAY PRIOR TO EXCAVATION. CONTRACTOR SHALL CONTACT UTILITY LOCATING COMPANY AND LOCATE ALL UTILITIES PRIOR TO GRADING START.
- SEE LANDSCAPE PLAN FOR PROPOSED SITE RESTORATION.
- ALL DISTURBED AREAS TO BE RESTORED W/ 4" TOPSOIL RE-SPREAD & SEEDING/SODDING UNLESS OTHERWISE NOTED ON PLANS.
- THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL SITE MAINTENANCE DURING THE PERIOD OF CONSTRUCTION. CONTRACTOR SHALL KEEP THE SITE CLEAN AND MOW AS NECESSARY.
- ALL EXISTING UTILITIES TO BE FIELD VERIFIED PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL COORDINATE ALL WATER MAIN WORK WITH MISSOURI AMERICAN WATER.
- THE CONTRACTOR WILL BE RESPONSIBLE FOR COORDINATION AND OBTAINING A TEMPORARY WATER METER FROM MISSOURI AMERICAN WATER AND FOR THE PURCHASE OF ALL WATER NECESSARY TO COMPLETE THE WORK ON SITE, AS NECESSARY.
- ALL UNDERGROUND ELECTRICAL WORK SHALL BE COORDINATED WITH AMEREN, AND COORDINATED IN A TIMELY MANNER.
- CONTRACTOR WILL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL NECESSARY THROUGHOUT DURATION OF THE SITE WORK, AND DURING GUARDRAIL WORK.

**SITE DESCRIPTION:**

1. THE FOLLOWING IS A DESCRIPTION OF THE CONSTRUCTION ACTIVITY WHICH IS THE SUBJECT OF THIS PLAN: KEHRS MILL ROAD LANDSCAPE ENHANCEMENTS.  
  
THE PROPOSED DEVELOPMENT CONSISTS OF CONSTRUCTION OF A CITY ENTRY/GATEWAY. THE CONSTRUCTION ACTIVITIES FOR SITE IMPROVEMENTS WILL INCLUDE: MASONRY WALLS AND COLUMNS, SIGNAGE, ARCHITECTURAL ELEMENTS, RETAINING WALLS, RAILINGS, GUARDRAIL WORK, LIGHTING, IRRIGATION AND LANDSCAPING.
2. THE FOLLOWING IS A DESCRIPTION OF THE INTENDED SEQUENCE OF MAJOR ACTIVITIES WHICH WILL DISTURB SOILS FOR MAJOR PORTIONS OF THE CONSTRUCTION SITE SUCH AS GRUBBING, EXCAVATION, AND GRADING:  
  
THE SEQUENCE OF THE CONSTRUCTION ACTIVITIES MAY BE AS FOLLOWS: 1) INSTALL NECESSARY EROSION CONTROL MEASURES AND SILT FILTER FENCE. 2) TOPSOIL STRIPPING. 3) GRADING. 4) UNDERGROUND UTILITIES INSTALLATION. 5) HARDSCAPE IMPROVEMENT INSTALLATIONS. 6) FINE GRADING, PLANTING AND SEEDING. THE SOIL EROSION AND SEDIMENTATION CONTROL ITEMS WILL BE INSTALLED AS NEEDED DURING THE ABOVE CONSTRUCTION ACTIVITIES.
3. THE TOTAL AREA OF THE SITE THAT IS ESTIMATED TO BE DISTURBED BY EXCAVATION, GRADING, OR OTHER ACTIVITIES, IS APPROXIMATELY .29 ACRES.

**EROSION CONTROL NOTES:**

1. SITE GRADING SHALL NOT PROCEED UNTIL EROSION CONTROL MEASURES HAVE BEEN INSTALLED.
2. GROUND COVER FOR 5:1 SLOPES OR GREATER SHALL BE ESTABLISHED AS SOON AS POSSIBLE BUT NOT LATER THEN 7 DAYS AFTER GRADING IS COMPLETED.
3. UTILIZE EXCELSIOR BLANKET ON ALL SLOPES OF 5:1 OR GREATER.
4. ALL STREETS, DRIVEWAYS, AND SIDEWALKS MUST BE KEPT CLEAN AT ALL TIMES.
5. IF ANY ADDITIONAL SOIL EROSION MEASURES ARE DEEMED NECESSARY BY THE CITY ENGINEER OR THEIR REPRESENTATIVE, THESE MEASURES MUST BE IMMEDIATELY IMPLEMENTED BY THE CONTRACTOR.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF SILT FENCING AND INLET PROTECTION MEASURES ONCE THE WORK IS COMPLETED AND THE SITE HAS BEEN STABILIZED TO 70% VEGETATIVE COVERAGE MINIMUM.
7. PROVIDE EROSION CONTROL MEASURES AROUND TOPSOIL STOCKPILES AS NECESSARY TO PREVENT EROSION.

**EROSION CONTROL SEQUENCE NOTES:**

1. INSTALL EROSION CONTROL MEASURES AND SILT FILTER FENCE AS NECESSARY.
2. STRIP AND STOCKPILE TOPSOIL, STABILIZE STOCKPILES WITHIN 7 DAYS.
3. CONTINUE GRADING, STABILIZE COMPLETED AREAS WITH PERMANENT STABILIZATION OR INACTIVE AREAS (INCLUDING MASS GRADED AREAS) WITH TEMPORARY STABILIZATION WITHIN 7 DAYS.
4. INSTALL UTILITIES.
5. INSTALL HARDSCAPE IMPROVEMENTS.
6. COMPLETE GRADING AND INSTALL PERMANENT SEEDING AND PLANTINGS.
7. WHEN ALL CONSTRUCTION ACTIVITY IS COMPLETE AND THE SITE IS STABILIZED, RESEED ANY REMAINING DISTURBED AREAS.
8. REMOVE ALL TEMPORARY EROSION CONTROL MEASURES ONCE VEGETATION REACHES 70% COVERAGE.
9. ANTICIPATED CONSTRUCTION START AND COMPLETION DATES: START AUGUST 2014 COMPLETE DECEMBER 2014.

**LANDSCAPING GENERAL NOTES:**

1. BASE MAP INFORMATION IS ACCURATE AS OF THE DATE PRINTED ON THIS PACKAGE.
2. THE PLANS CONTAINED HEREIN ILLUSTRATE APPROXIMATE LOCATIONS OF ALL SITE CONDITIONS.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR BECOMING AWARE OF AND FIELD VERIFYING ALL RELATED EXISTING AND PROPOSED CONDITIONS, UTILITIES, PIPES AND STRUCTURES, ETC. PRIOR TO BIDDING AND CONSTRUCTION. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR CONTACTING THE MISSOURI ONE CALL SYSTEM, THE CITY PUBLIC WORKS DEPARTMENT, THE COUNTY AND ANY OTHER PUBLIC OR PRIVATE AGENCIES NECESSARY FOR UTILITY LOCATION PRIOR TO ANY CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE OF APPARENT CONFLICTS WITH CONSTRUCTION AND UTILITIES SO THAT ADJUSTMENTS CAN BE PLANNED PRIOR TO INSTALLATION. IF FIELD ADJUSTMENTS ARE NECESSARY DUE TO EXISTING UTILITY LOCATIONS THEY MUST BE APPROVED BY THE OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL TAKE SOLE RESPONSIBILITY FOR ANY AND ALL COSTS OR OTHER LIABILITIES INCURRED DUE TO DAMAGE OF SAID UTILITIES/STRUCTURES/ETC.
4. THE CONTRACTOR SHALL VERIFY ALL SITE CONDITIONS. THE CONTRACTOR SHALL NOT WILLFULLY PROCEED WITH CONSTRUCTION AS DESIGNED WHEN IT IS APPARENT THAT UNKNOWN OBSTRUCTIONS AND/OR GRADE DIFFERENCES EXIST THAT MAY NOT HAVE BEEN KNOWN DURING DESIGN. SUCH CONDITIONS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE FOR CLARIFICATION. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ALL LIABILITIES, INCLUDING NECESSARY REVISIONS DUE TO FAILURE TO GIVE SUCH NOTIFICATION.
5. THE CONTRACTOR SHALL COMPLY WITH ALL CODES APPLICABLE TO THIS WORK.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH SUBCONTRACTORS AND OTHER CONTRACTORS OF RELATED TRADES, AS REQUIRED, TO ACCOMPLISH THE PLANTING AND RELATED OPERATIONS.
7. THE CONTRACTOR SHALL COORDINATE INSTALLATION OF ALL PLANT MATERIAL WITH THE INSTALLATION OF OTHER IMPROVEMENTS SUCH AS HARDSCAPE ELEMENTS AND RELATED STRUCTURES. ANY DAMAGE TO EXISTING IMPROVEMENTS IS THE RESPONSIBILITY OF THE CONTRACTOR.
8. THE CONTRACTOR IS RESPONSIBLE TO RESTORE ALL AREAS OF THE SITE, OR ADJACENT AREAS, WHERE DISTURBED BY OPERATIONS OF OR RELATED TO THE CONTRACTOR'S WORK.
9. ALL SURFACE DRAINAGE SHALL BE DIVERTED AWAY FROM STRUCTURES AND NOTED SITE FEATURES IN ALL AREAS AT A MINIMUM OF 2% SLOPE AS SHOWN ON THE CIVIL ENGINEERING PLANS.
10. THE CONTRACTOR SHALL STAKE ALL IMPROVEMENTS AS NOTED ON THE FOLLOWING PLANS, AS WELL AS, TREE LOCATIONS AND THE PERIMETER OF SHRUB/PERENNIAL BEDS PRIOR TO INSTALLATION AND CONTACT THE OWNER'S REPRESENTATIVE FOR APPROVAL. FINAL LOCATION AND STAKING OF ALL IMPROVEMENTS SHALL BE ACCEPTED BY THE OWNER'S REPRESENTATIVE IN ADVANCE OF INSTALLATION.
11. IF CONFLICTS ARISE BETWEEN THE SIZE OF AREAS AND PLANS, THE CONTRACTOR IS REQUIRED TO CONTACT THE OWNER'S REPRESENTATIVE FOR RESOLUTION PRIOR TO INSTALLATION.
12. WHERE PROVIDED, AREA TAKEOFFS AND PLANT QUANTITY ESTIMATES IN THE PLANT LIST ARE FOR INFORMATION ONLY. THE CONTRACTOR IS RESPONSIBLE TO DO THEIR OWN QUANTITY TAKE-OFFS FOR ALL PLANT MATERIALS AND SIZES SHOWN ON PLANS. IN CASE OF ANY DISCREPANCIES, PLANS TAKE PRECEDENCE OVER CALL-OUTS AND/OR THE PLANT LIST(S).
13. ALL PLANTS SHALL BE NURSERY GROWN PLANTS MEETING AMERICAN NURSERY AND LANDSCAPE ASSOCIATION (ANLA) STANDARDS SET FORTH IN THE "AMERICAN STANDARD FOR NURSERY STOCK" (ANSI Z60.1-2004). PLANTS ARE TO BE TYPICAL IN SHAPE AND SIZE FOR SPECIES. PLANTS SHALL NOT BE ROOT-BOUND OR LOOSE IN THEIR CONTAINERS. HANDLE ALL PLANTS WITH CARE IN TRANSPORTING, PLANTING AND MAINTENANCE UNTIL INSPECTION AND FINAL ACCEPTANCE. FIELD COLLECTED MATERIAL SHALL NOT BE USED UNLESS APPROVED BY THE OWNER'S REPRESENTATIVE.
14. SHREDDED HARDWOOD MULCH, FERTILIZING, AS SPECIFIED, STAKING, WATERING AND ONE (1) YEAR PLANT WARRANTY FOR INSTALLED PLANT MATERIAL, SHALL BE CONSIDERED INCIDENTAL TO THE PLANT ITEMS.
15. ALL HARDWOOD MULCH SHALL BE PREMIUM, FINELY SHREDDED OR PROCESSED HARDWOOD BARK, GRADED TO ¾ INCH TO ½ SIZE, MAXIMUM 3" IN LENGTH. MULCH SHALL BE DIED BROWN TO MATCH CITY OF CHESTERFIELD STANDARDS. SUPPLY A MULCH SAMPLE TO OWNER PRIOR TO INSTALLATION.
16. MUSHROOM COMPOST SHALL BE FINELY SCREENED, HOMOGENOUS, DECOMPOSED ORGANIC MATERIAL SUITABLE FOR HORTICULTURAL USE AS AVAILABLE FROM MIDWEST TRADING HORTICULTURAL SUPPLIES, INC. ST. CHARLES, IL 60174 (630) 365-1990 OR APPROVED EQUAL. MIX THOROUGHLY IN PLANT BED BEFORE INSTALLING PLANTS.
17. WARRANTY: ONE (1) YEAR REPLACEMENT WARRANTY FOR ALL PLANT MATERIALS SHALL BE CONSIDERED INCIDENTAL TO THIS PROJECT. WARRANTY SHALL COVER PLANTS WHICH HAVE DIED OR PARTIALLY DIED (THEREBY RUINING THEIR NATURAL SHAPE), BUT SHALL NOT INCLUDE DAMAGE BY VANDALISM, BROWSING, HAIL, ABNORMAL FREEZES, DROUGHT OR NEGLIGENCE BY THE OWNER. THE WARRANTY IS INTENDED TO COVER CONTRACTOR NEGLIGENCE, INFESTATIONS, DISEASE AND DAMAGE OR SHOCK TO PLANTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING AND WATERING THE PLANT MATERIAL AS NECESSARY, TO ENSURE GROWTH AND ESTABLISHMENT DURING THE 1-YEAR WARRANTY PERIOD. ANY PLANTS THAT ARE NOT IN A LIVE, HEALTHY, GROWING CONDITION AT THE END OF THE 1-YEAR WARRANTY PERIOD SHALL BE REPLACED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE. PLANTS REPLACED UNDER WARRANTY WILL BE WARRANTED FOR ONE (1) YEAR FOLLOWING REPLACEMENT.
18. MOCK-UPS: CONTRACTOR SHALL PROVIDE A 6'x6" MOCK-UP OF THE STONE MASONRY FOR THE OWNER TO REVIEW AND APPROVE ON-SITE. MOCK-UP SHALL DEPICT THE SPECIFIED STONE, MORTAR AND JOINT DETAILING AS SPECIFIED IN THE PLANS. CONTRACTOR SHALL ALSO PROVIDE STAKING THAT INDICATES THE LOCATIONS OF THE TOWER AND COLUMNS FOR REVIEW IN THE FIELD, PRIOR TO EXCAVATING THE FOUNDATION. CONTRACTOR IS TO SUPPLY THE OWNER WITH SAMPLES OF THE CUT STONE CAP AND SIGN PANEL MATERIAL FOR APPROVAL.

P-30345-00

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Xrefs: xgl-1-dh01

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KEHRS MILL ROAD ENTRY  
 CITY OF CHESTERFIELD  
 CHESTERFIELD, MISSOURI

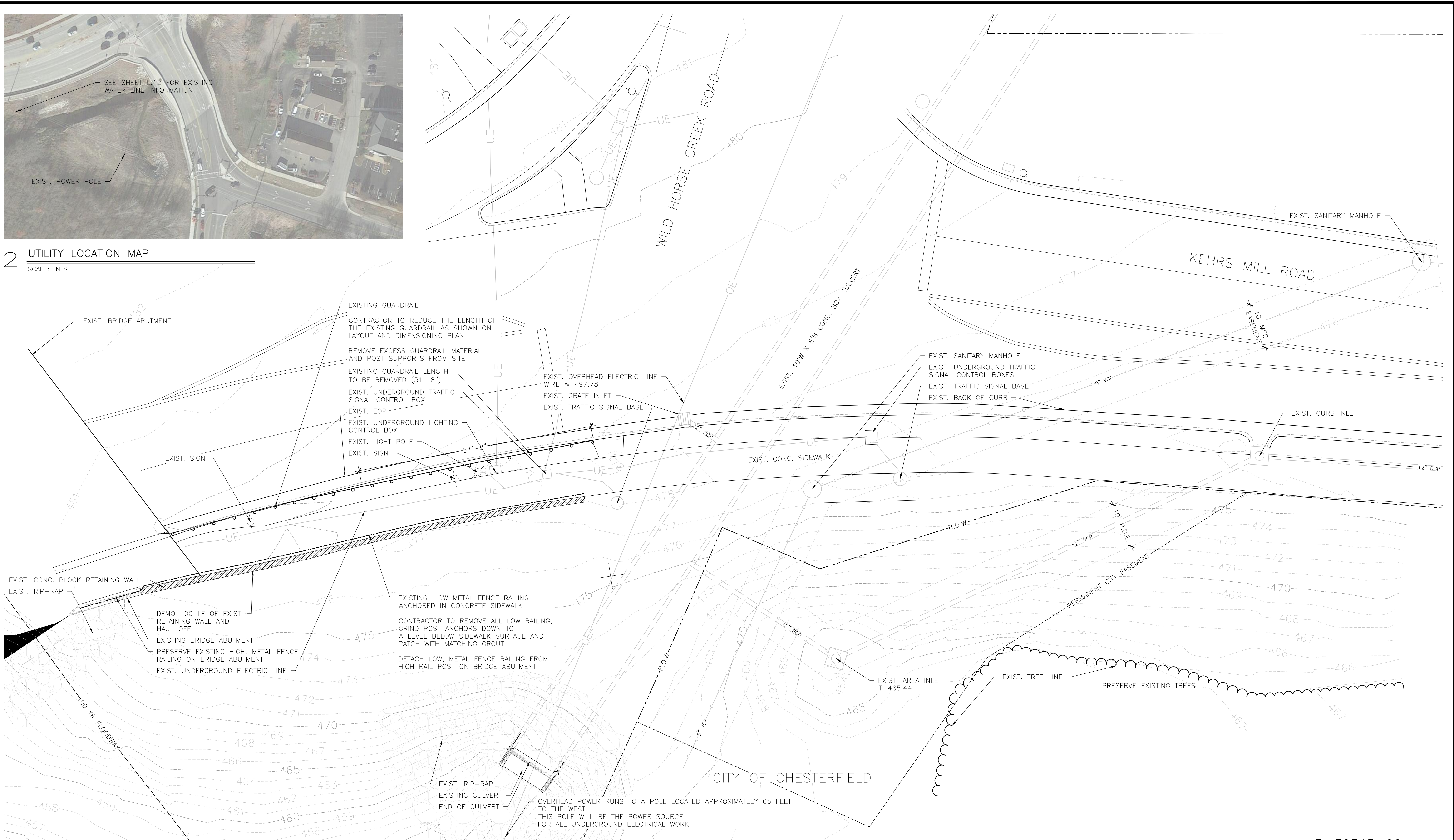
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 GENERAL NOTES

SHEET NO.  
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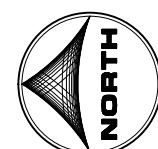
**2 UTILITY LOCATION MAP**

SCALE: NTS



**1 PLAN**

SCALE: 1" = 10'-0"



P-30345-00

Xref: xref-1-df01: 86120425\_xv-survey; 86120425\_xl-dsgn; 86120425\_xl-details

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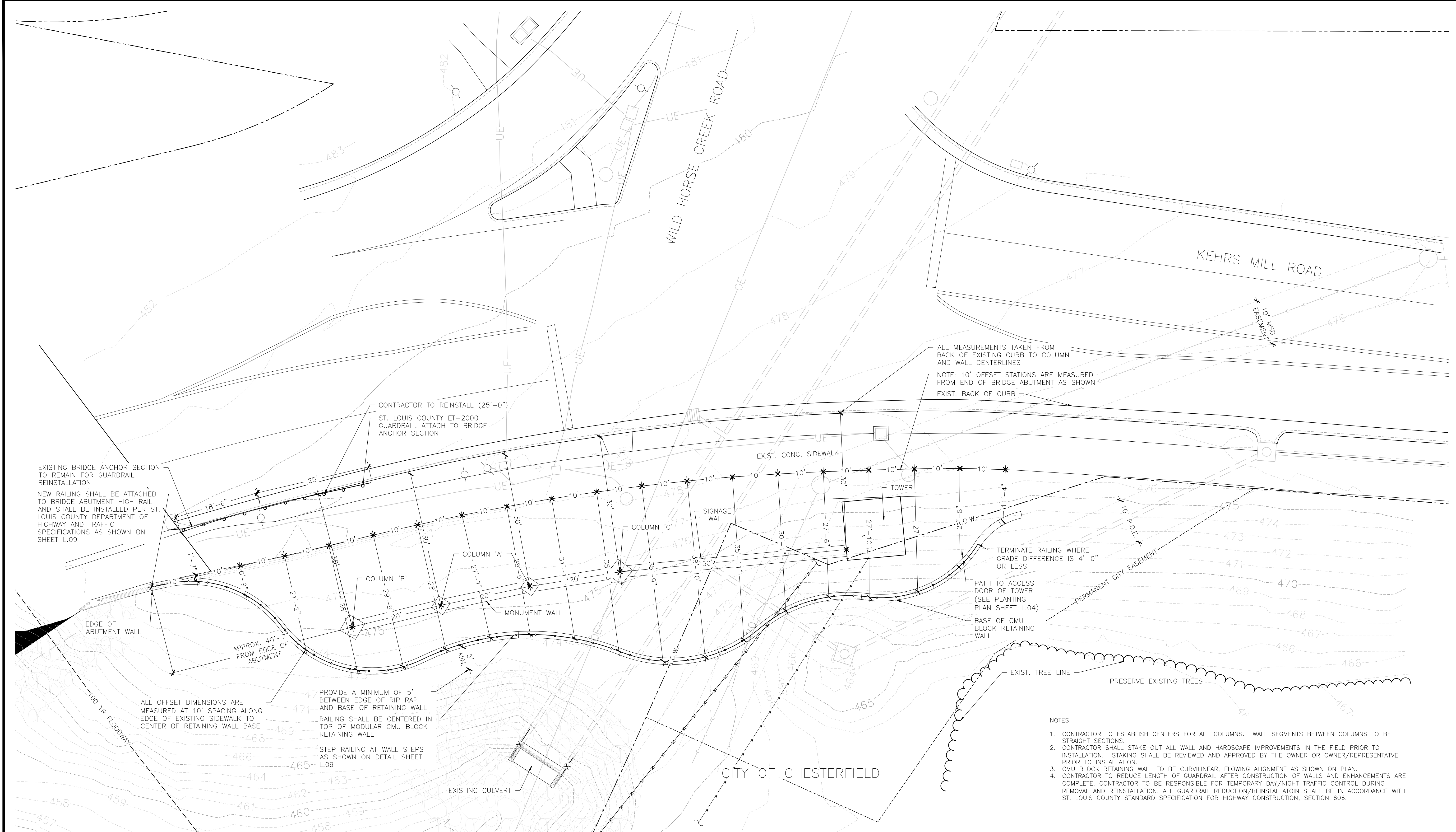
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 CITY OF CHESTERFIELD  
 CHESTERFIELD, MISSOURI

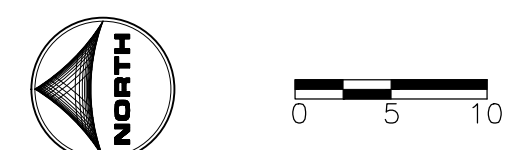
LANDSCAPE  
 EXISTING CONDITIONS & DEMOLITION PLAN

SHEET NO.  
 L.01



- NOTES:
1. CONTRACTOR TO ESTABLISH CENTERS FOR ALL COLUMNS. WALL SEGMENTS BETWEEN COLUMNS TO BE STRAIGHT SECTIONS.
  2. CONTRACTOR SHALL STAKE OUT ALL WALL AND HARDSCAPE IMPROVEMENTS IN THE FIELD PRIOR TO INSTALLATION. STAKING SHALL BE REVIEWED AND APPROVED BY THE OWNER OR OWNER/REPRESENTATIVE PRIOR TO INSTALLATION.
  3. CMU BLOCK RETAINING WALL TO BE CURVILINEAR, FLOWING ALIGNMENT AS SHOWN ON PLAN.
  4. CONTRACTOR TO REDUCE LENGTH OF GUARDRAIL AFTER CONSTRUCTION OF WALLS AND ENHANCEMENTS ARE COMPLETE. CONTRACTOR TO BE RESPONSIBLE FOR TEMPORARY DAY/NIGHT TRAFFIC CONTROL DURING REMOVAL AND REINSTALLATION. ALL GUARDRAIL REDUCTION/REINSTALLATION SHALL BE IN ACCORDANCE WITH ST. LOUIS COUNTY STANDARD SPECIFICATION FOR HIGHWAY CONSTRUCTION, SECTION 606.

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



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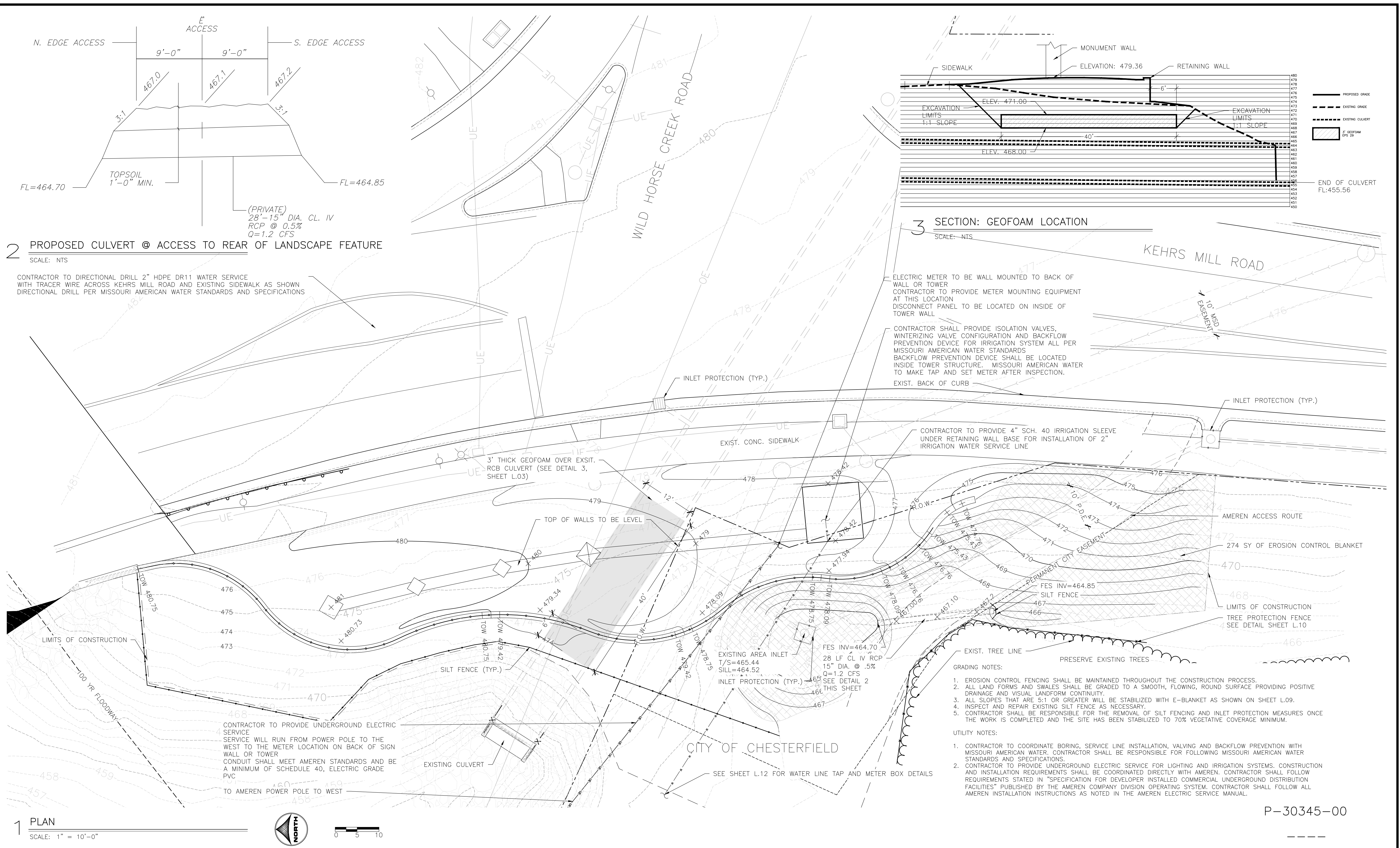


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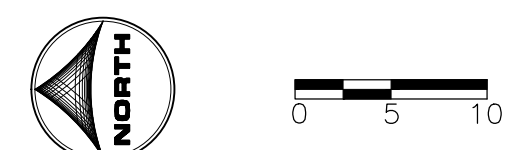
LANDSCAPE  
LAYOUT & DIMENSIONING PLAN

SHEET NO.  
L.02

Xrefs: xgl-1-df01: 86120425\_xv-survey; 86120425\_xl-dsgr; 86120425\_xl-details



**1 PLAN**  
SCALE: 1" = 10'-0"



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**KEHRS MILL ROAD ENTRY**  
CITY OF CHESTERFIELD  
CHESTERFIELD, MISSOURI

LANDSCAPE  
GRADING, UTILITIES & EROSION CONTROL  
PLAN

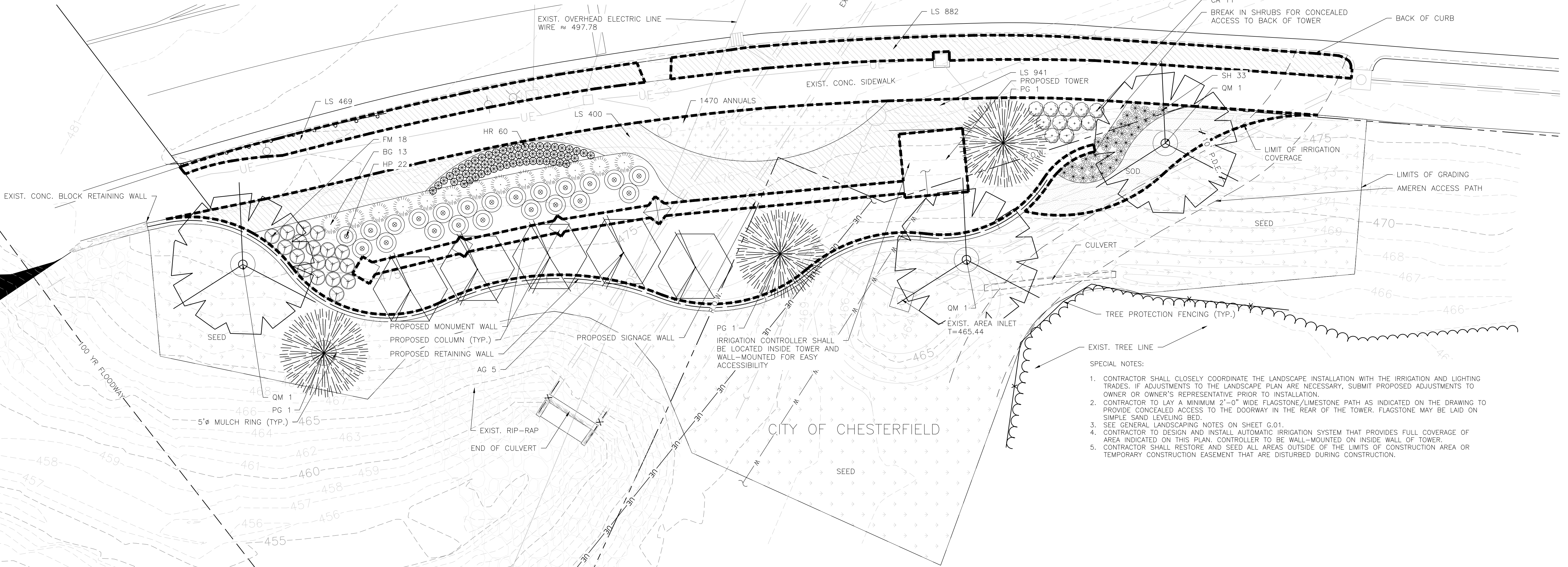
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KEHRS MILL July 31, 2014						
MATERIALS SCHEDULE						
QTY	KEY	BOTANICAL NAME/ITEM	COMMON NAME	SIZE	COND	REMARKS
<b>DECIDUOUS TREES</b>						
5	AG	AMELANCHIER X GRANDIFLORA 'AUTUMN BRILLIANCE'	APPLE SERVICEBERRY	8' HT.	B&B	MULTI-STEMMED
3	QM	QUERCUS MUEHLENBERGII	CHINKAPIN OAK	3.5" CAL.	B&B	CENTRAL LEADER
<b>EVERGREEN TREES</b>						
3	PG	PICEA GLAUCA	WHITE SPRUCE	10' HT.	B&B	CENTRAL LEADER
<b>DECIDUOUS SHRUBS</b>						
11	CA	CLETHRA ALNIFOLIA 'SIXTEEN CANDLES'	SUMMERSWEET	#5	CONT.	
18	FM	FORSYTHIA 'MINBUS'	SHOW OFF SUGAR BABY FORSYTHIA	#3B	CONT.	
22	HP	HYDRANGEA PANICULATA 'JANE'	LITTLE LIME HYDRANGEA	#3B	CONT.	
<b>EVERGREEN SHRUBS</b>						
13	BG	BUXUS 'GREEN VELVET'	GREEN VELVET BOXWOOD	#5	CONT.	
<b>PERENNIALS, GRASSES, GROUNDCOVER</b>						
60	HR	HEMEROCALLIS 'ROSY RETURNS'	DAYLILY	#1	CONT.	18" OC
2692	LS	LIRIOPE SPICATA	CREeping LILYTURF	1 CELL	CONT.	10" OC / 12 FLAT SIZE
33	SH	SPOROBOLUS HETEROLEPIS	PRAIRIE DROPSEED	#1	CONT.	24" OC
<b>MISCELLANEOUS</b>						
1470	ANNUALS	SPECIES & VARIETY TO BE APPROVED BY OWNER PRIOR TO INSTALLATION		1 CELL		6" OC / 48 FLAT SIZE
37	SOD	SEE NOTE BELOW		SY		SEE NOTE BELOW
713	SEED	FESCUE BLEND - FAITH TALL FESCUE, GAZELLE II TALL FESCUE, WOLFPACK II TALL FESCUE & ENDEAVOR TALL FESCUE		SY		
23	COMP			CY		3" DEPTH
27	MULCH			CY		3" DEPTH

**GENERAL NOTES:**  
 1. PROVIDE STRONGLY ROOTED SOD, NOT LESS THAN 2 YEARS OLD AND FREE OF WEEDS AND UNDESIRABLE NATIVE GRASSES. PROVIDE ONLY SOD CAPABLE OF GROWTH AND DEVELOPMENT WHEN PLANTED (VIABLE, NOT DORMANT). PROVIDE SOD COMPOSED PRINCIPALLY OF AN APPROVED TALL FESCUE BLEND CONTAINING A MINIMUM OF FOUR IMPROVED VARIETIES.

LEGEND	
	ANNUALS
	GROUNDCOVER
	SOD
	SEED
	LIMITS OF IRRIGATION COVERAGE

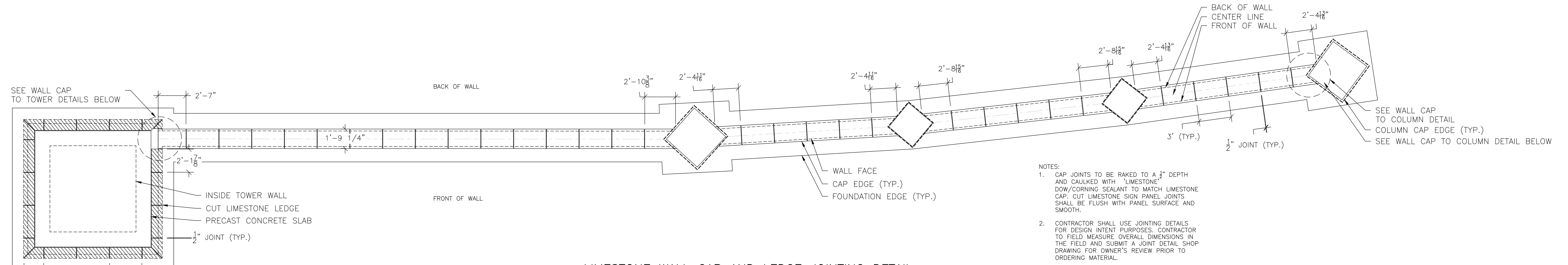


- SPECIAL NOTES:**
1. CONTRACTOR SHALL CLOSELY COORDINATE THE LANDSCAPE INSTALLATION WITH THE IRRIGATION AND LIGHTING TRADES. IF ADJUSTMENTS TO THE LANDSCAPE PLAN ARE NECESSARY, SUBMIT PROPOSED ADJUSTMENTS TO OWNER OR OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
  2. CONTRACTOR TO LAY A MINIMUM 2'-0" WIDE FLAGSTONE/LIMESTONE PATH AS INDICATED ON THE DRAWING TO PROVIDE CONCEALED ACCESS TO THE DOORWAY IN THE REAR OF THE TOWER. FLAGSTONE MAY BE LAID ON SIMPLE SAND LEVELING BED.
  3. SEE GENERAL LANDSCAPING NOTES ON SHEET G.01.
  4. CONTRACTOR TO DESIGN AND INSTALL AUTOMATIC IRRIGATION SYSTEM THAT PROVIDES FULL COVERAGE OF AREA INDICATED ON THIS PLAN. CONTROLLER TO BE WALL-MOUNTED ON INSIDE WALL OF TOWER.
  5. CONTRACTOR SHALL RESTORE AND SEED ALL AREAS OUTSIDE OF THE LIMITS OF CONSTRUCTION AREA OR TEMPORARY CONSTRUCTION EASEMENT THAT ARE DISTURBED DURING CONSTRUCTION.

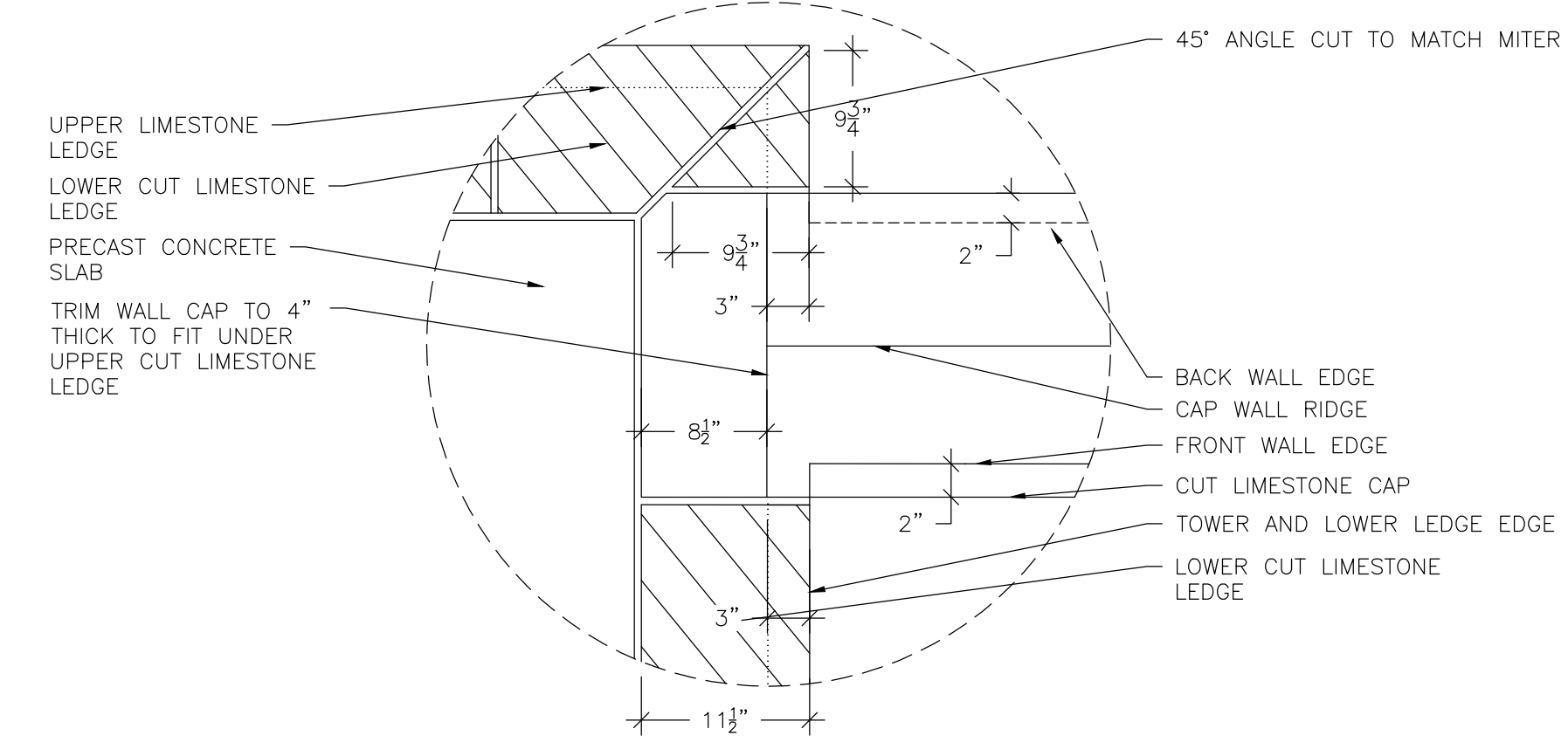


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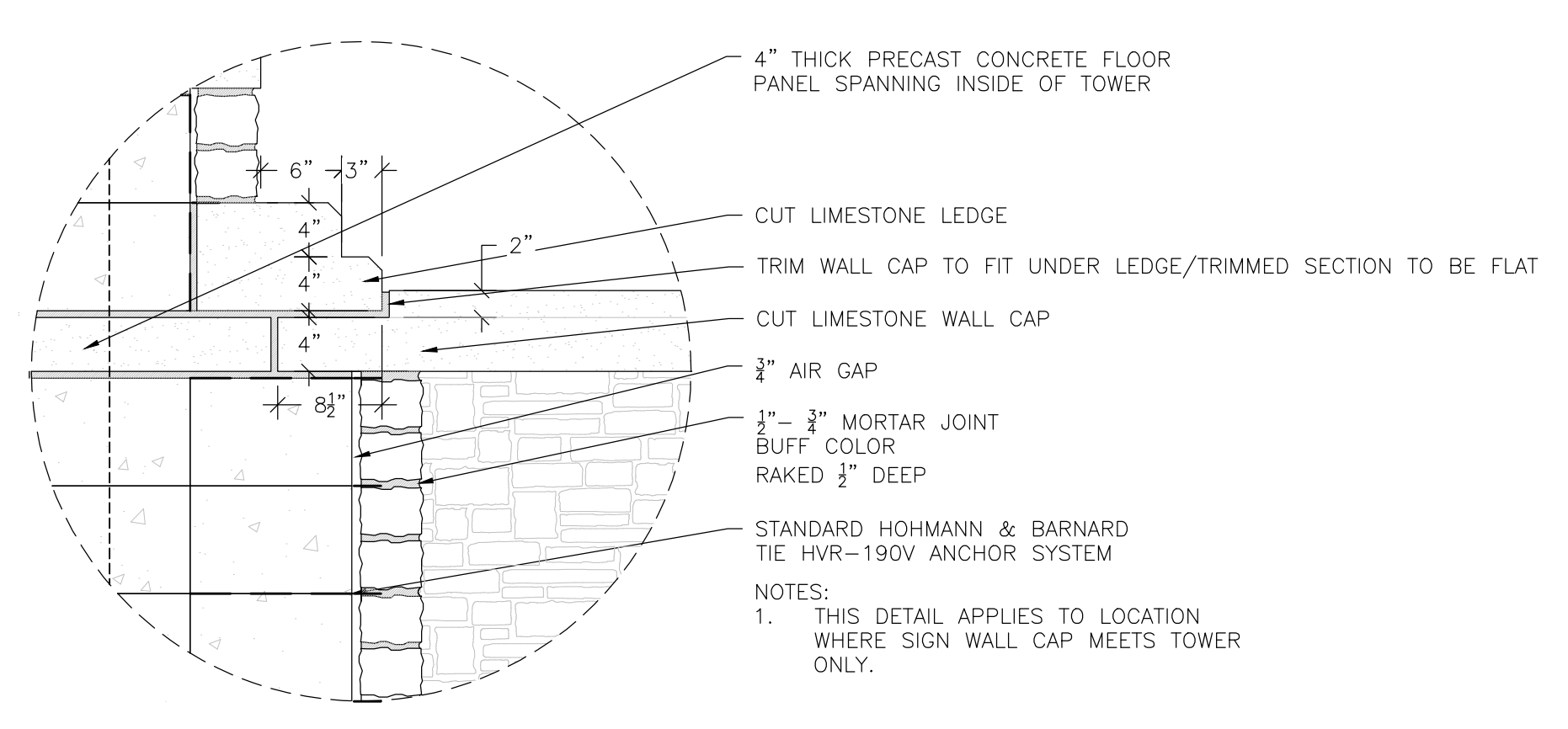
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	BAR IS ONE INCH ON OFFICIAL DRAWINGS. IF NOT ONE INCH, ADJUST SCALE ACCORDINGLY.					



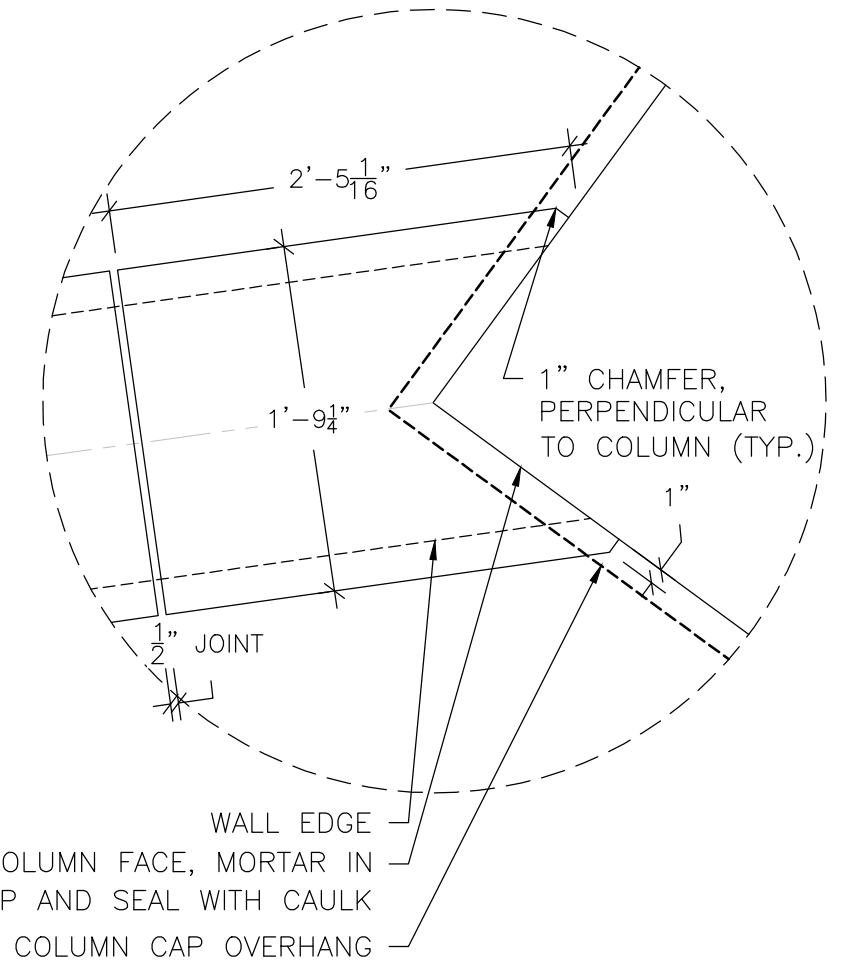
**1 LIMESTONE WALL CAP AND LEDGE JOINTING DETAIL**  
SCALE: NTS



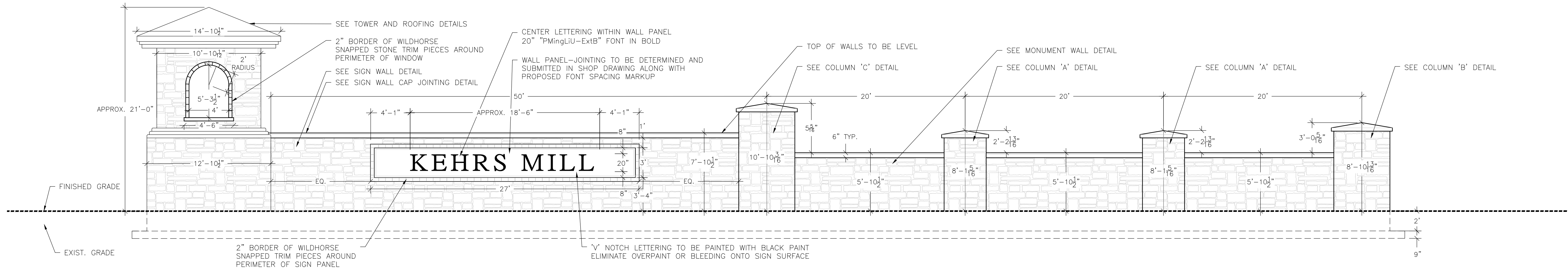
**2 WALL CAP TO TOWER PLAN VIEW DETAIL**  
SCALE: NTS



**3 WALL CAP TO TOWER SECTION DETAIL**  
SCALE: NTS



**4 WALL CAP TO COLUMN DETAIL**  
SCALE: NTS



**5 ELEVATION DETAIL**  
SCALE: NTS

P-30345-00

Xrefs: xgl-1-dm01: 86120425\_xl-details

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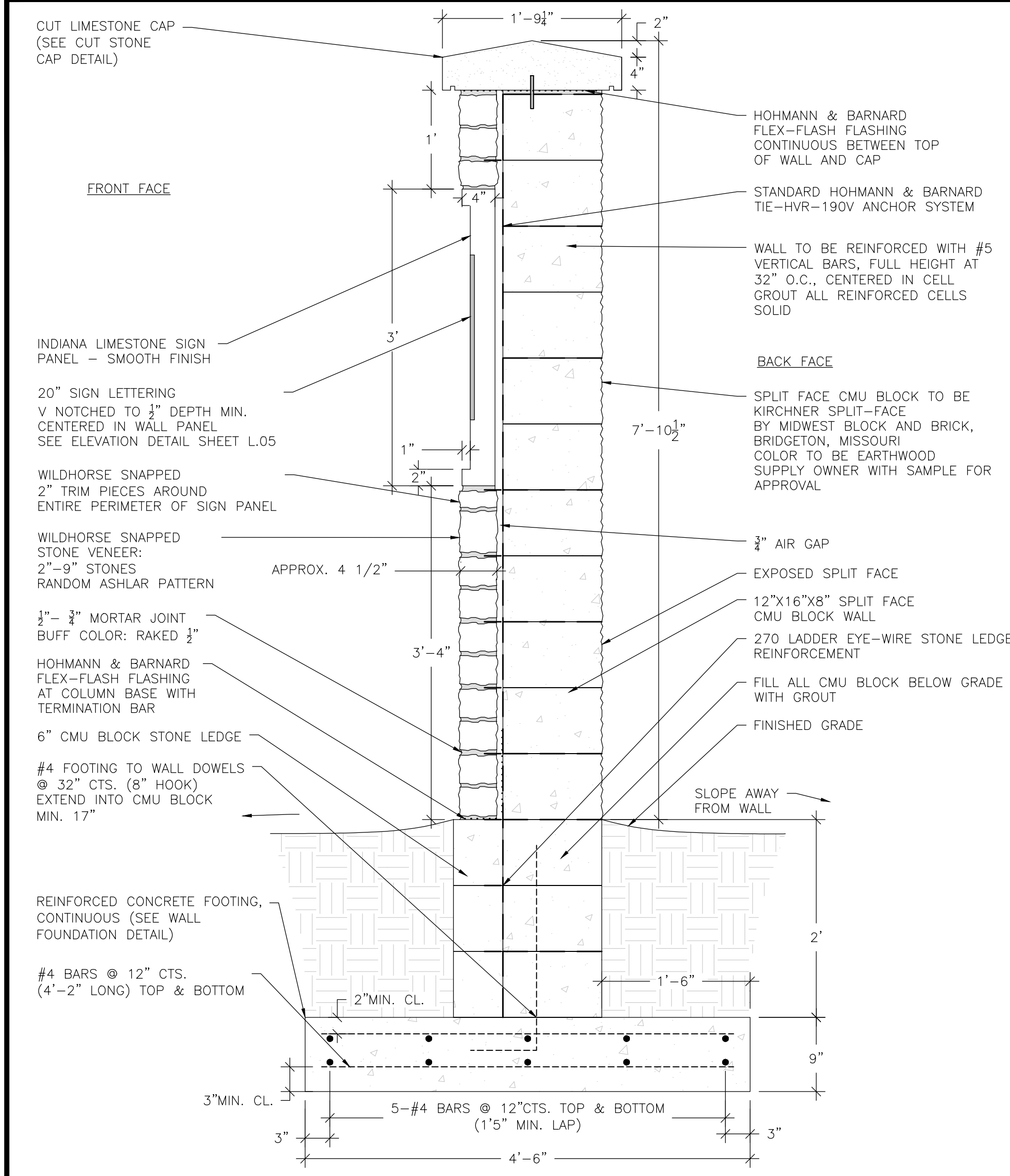
NO.	DATE	BY	REVISION DESCRIPTION

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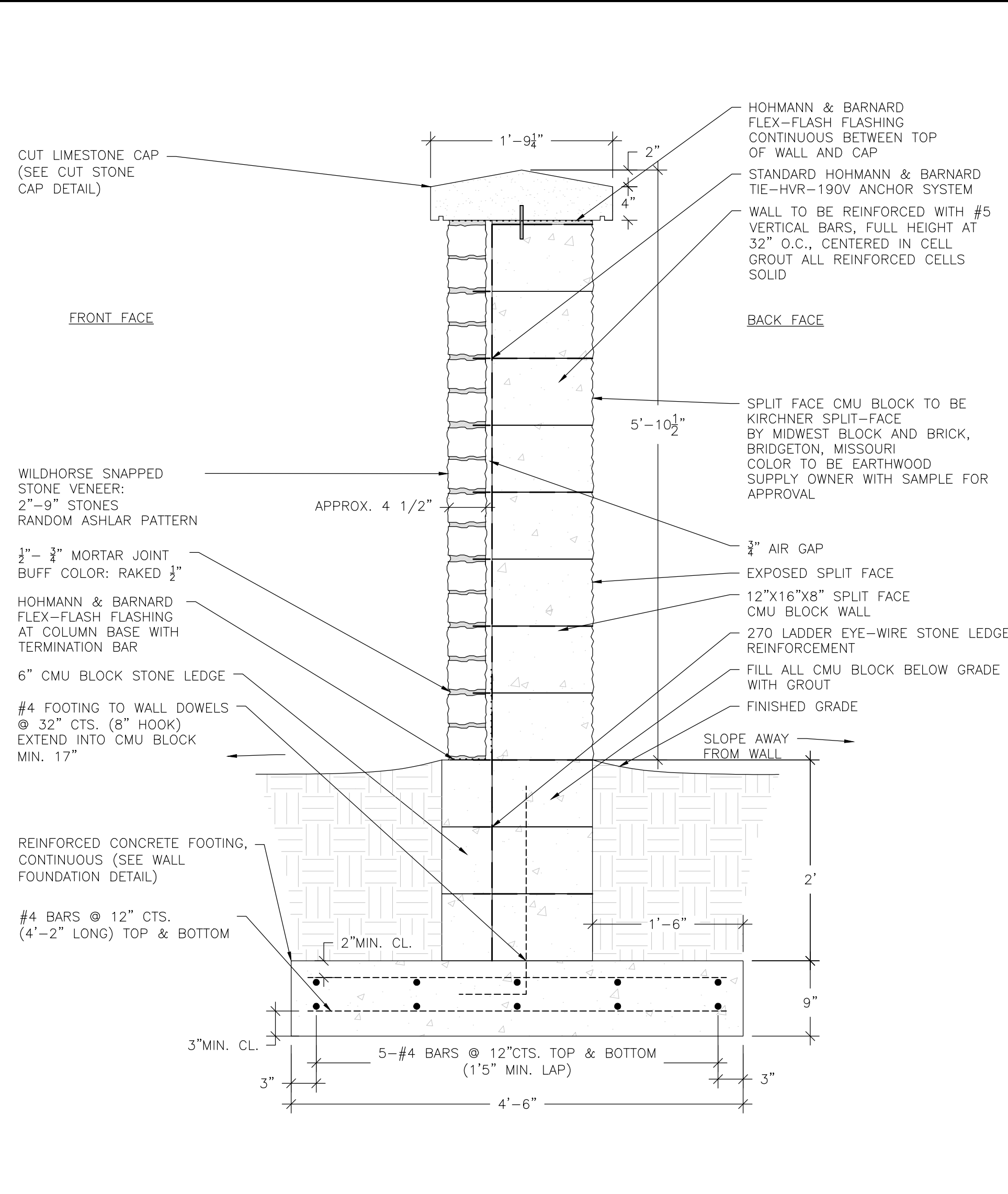
KEHRS MILL ROAD ENTRY  
CITY OF CHESTERFIELD  
CHESTERFIELD, MISSOURI

LANDSCAPE  
HARDSCAPE DETAILS

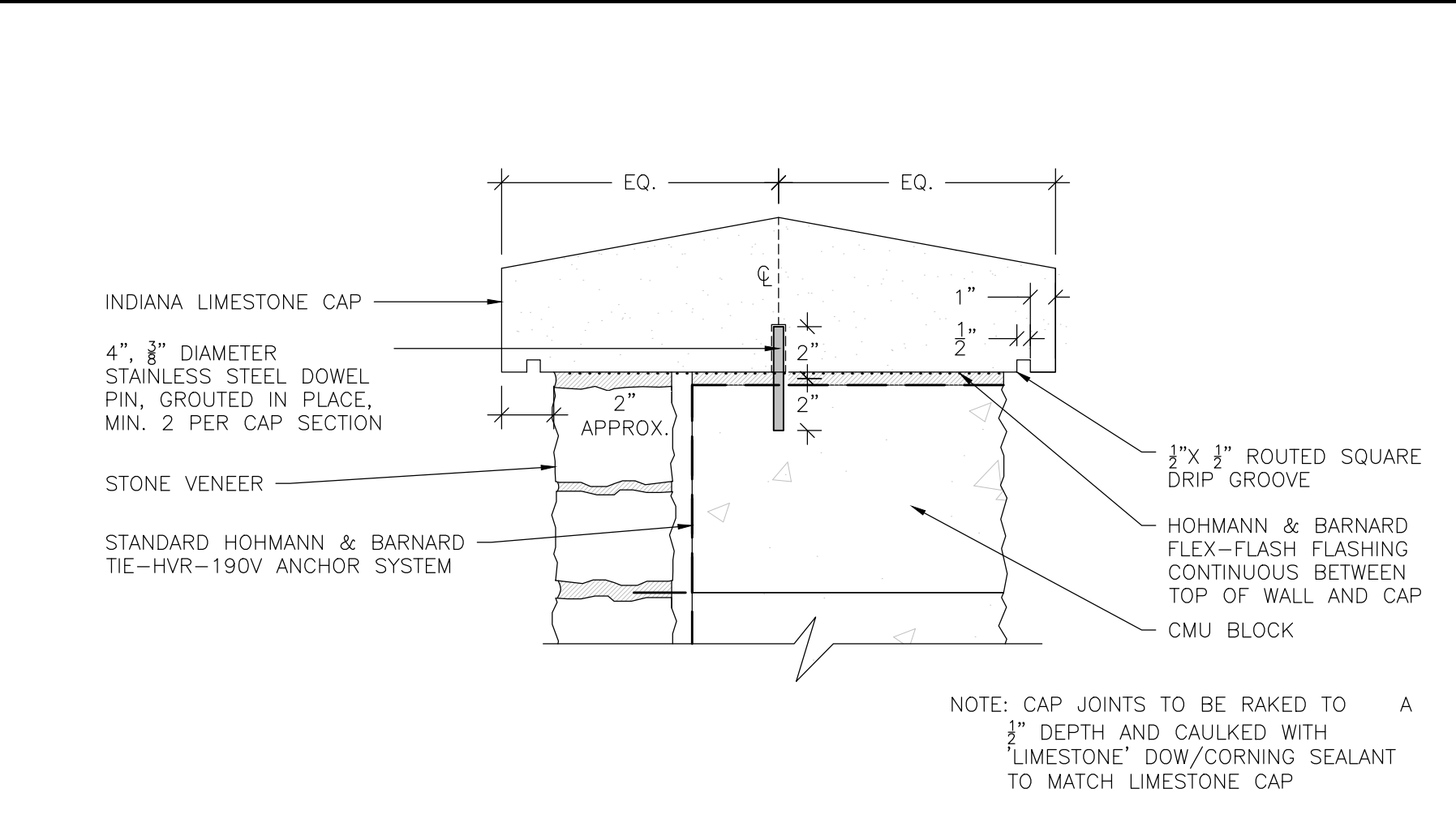
SHEET NO.  
**L.05**



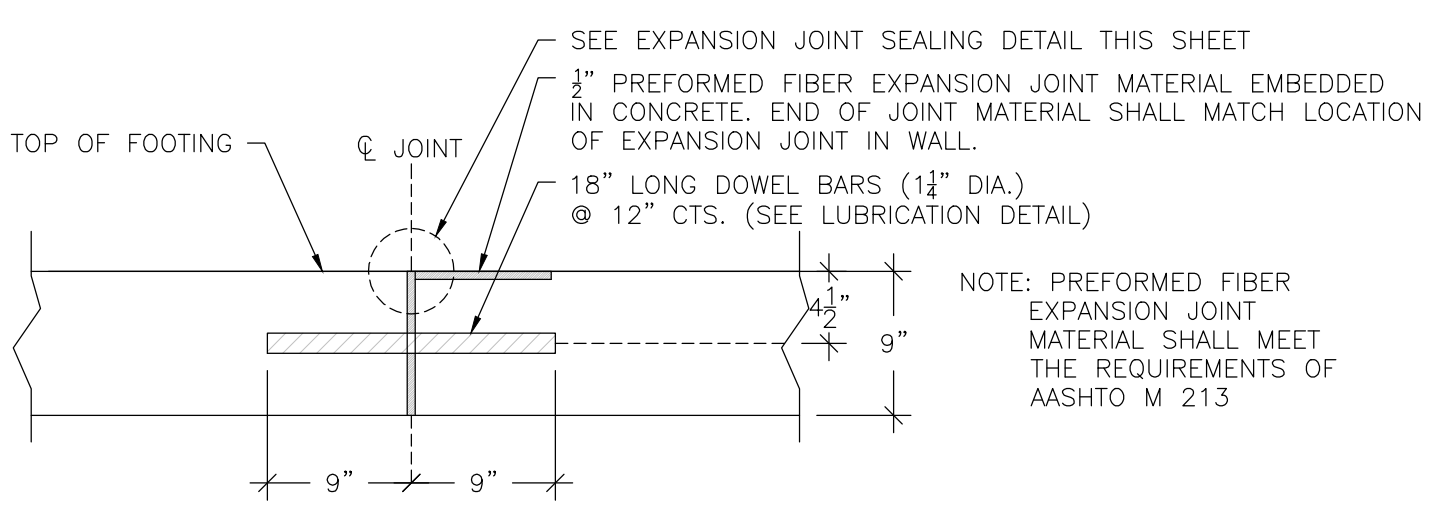
**1 SIGN WALL SECTION DETAIL**  
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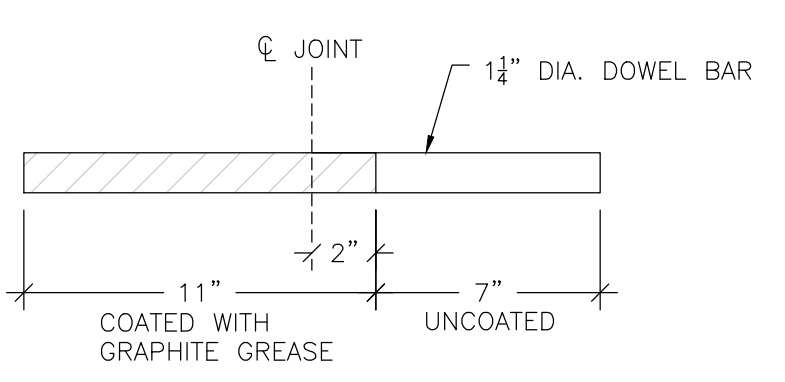
**2 MONUMENT WALL AND FOOTING SECTION DETAIL**  
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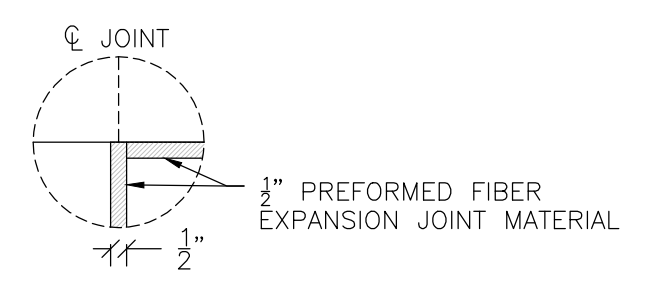
**3 CUT STONE CAP DETAIL**  
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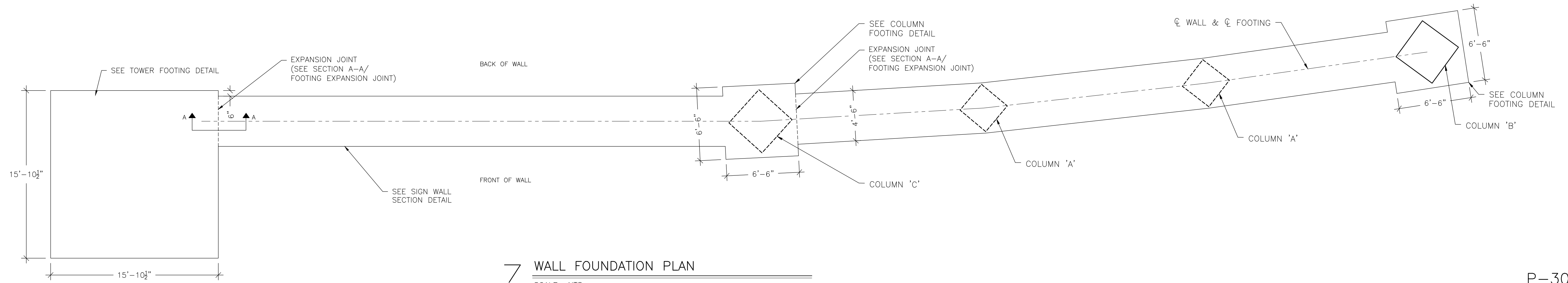
**4 SECTION A-A/FOOTING EXPANSION JOINT**  
SCALE: NTS



**5 DOWEL LUBRICATION DETAIL**  
SCALE: NTS



**6 EXPANSION JOINT SEALING DETAIL**  
SCALE: NTS



**7 WALL FOUNDATION PLAN**  
SCALE: NTS

P-30345-00

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 APPROVED: DLR JOB NUMBER: 86120425  
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NO.	DATE	BY	REVISION DESCRIPTION

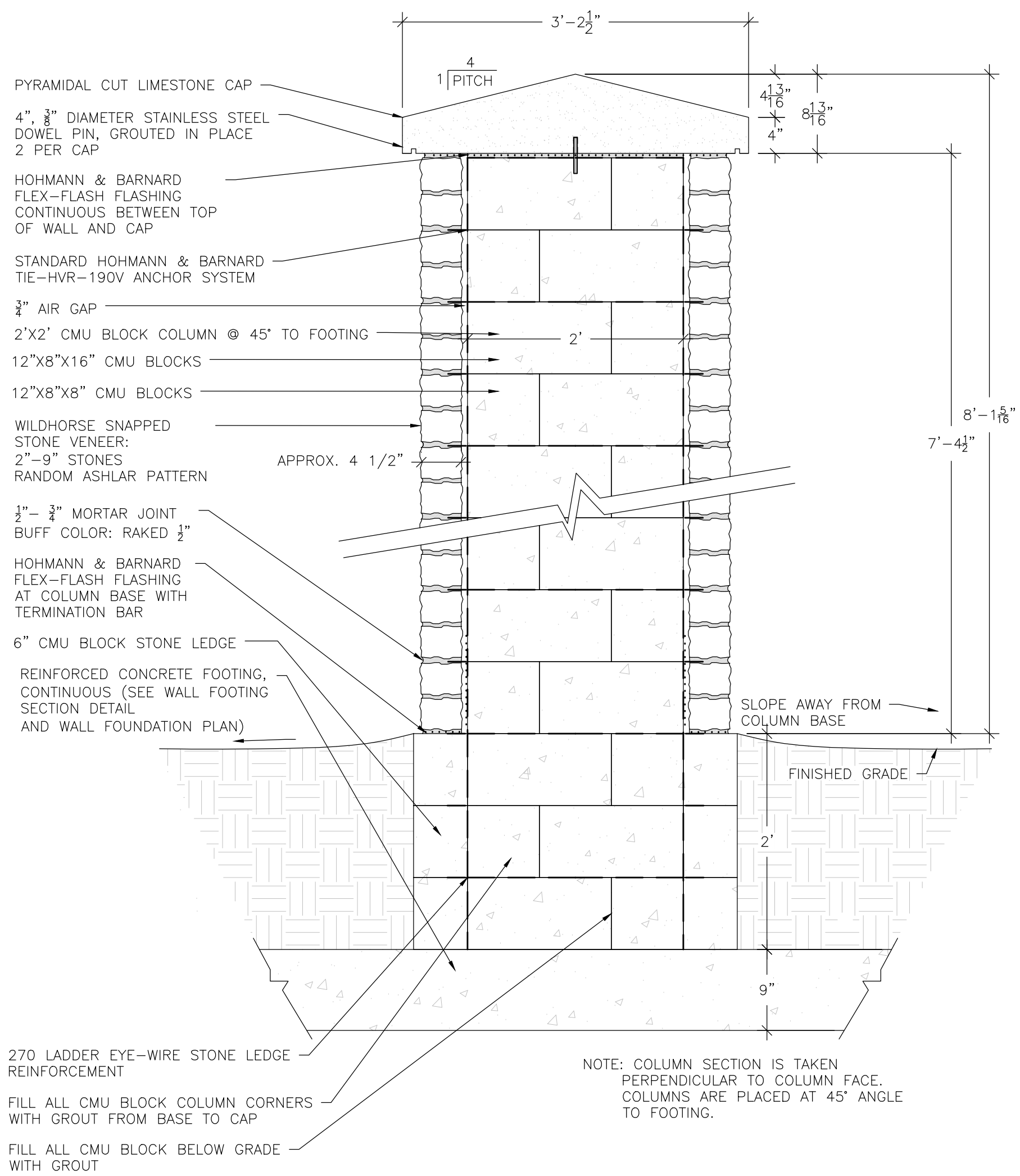


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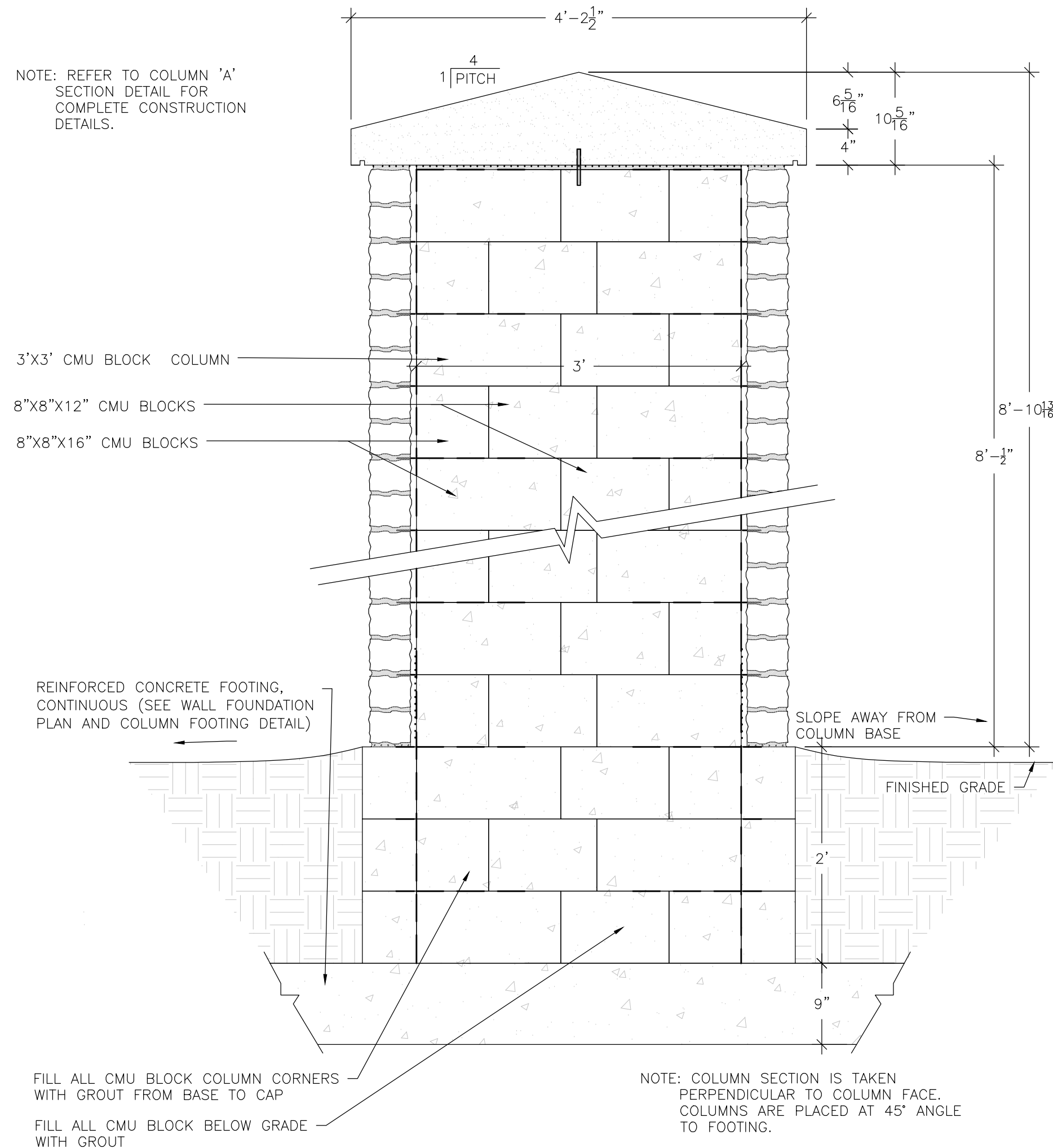
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 HARDSCAPE DETAILS

SHEET NO.  
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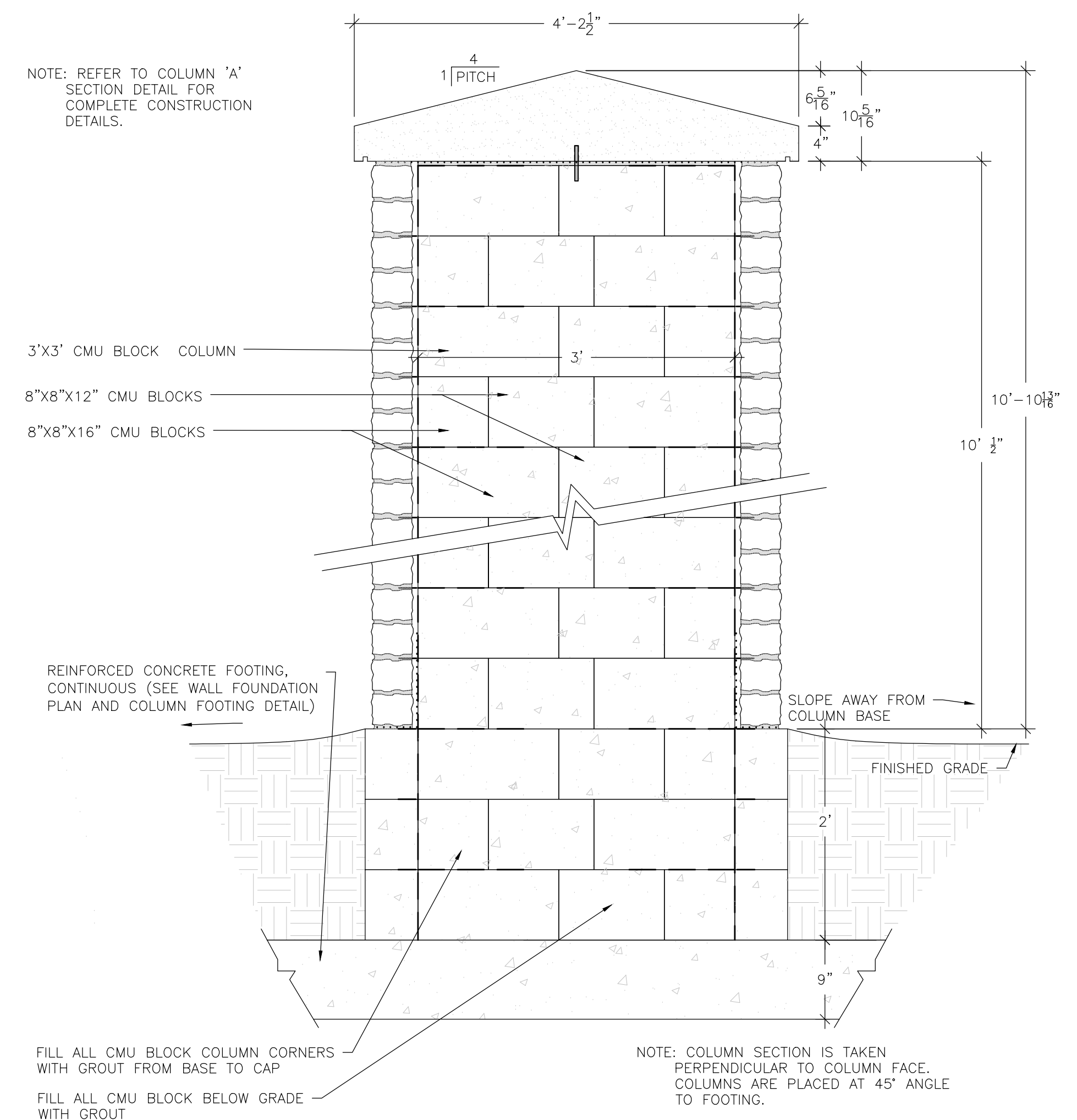




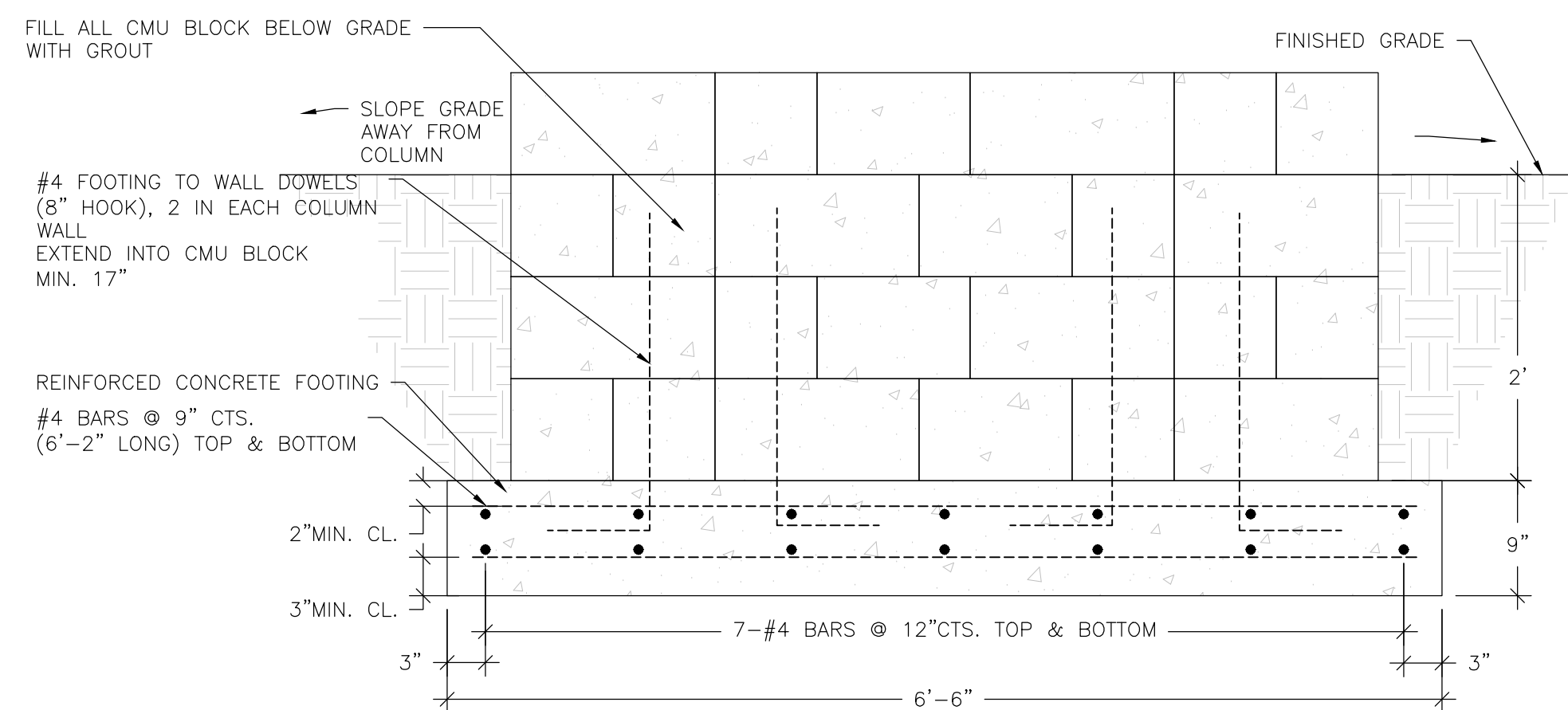
**1 COLUMN 'A' SECTION DETAIL**  
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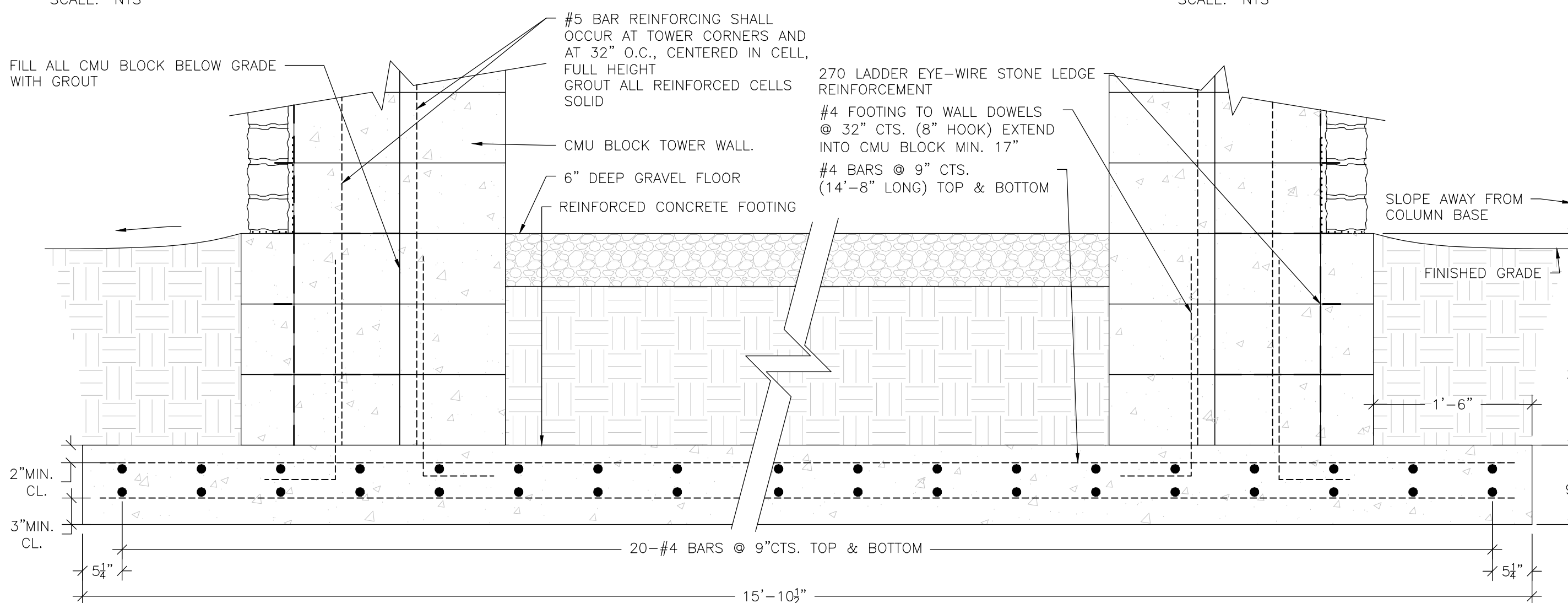
**2 COLUMN 'B' SECTION DETAIL**  
SCALE: NTS



**3 COLUMN 'C' SECTION DETAIL**  
SCALE: NTS



**4 COLUMN FOOTING DETAIL**  
SCALE: NTS



**5 TOWER FOOTING DETAIL**  
SCALE: NTS

P-30345-00

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 APPROVED: DLR JOB NUMBER: 86120425  
 CAD DATE: 6/13/2016 10:27:08 AM  
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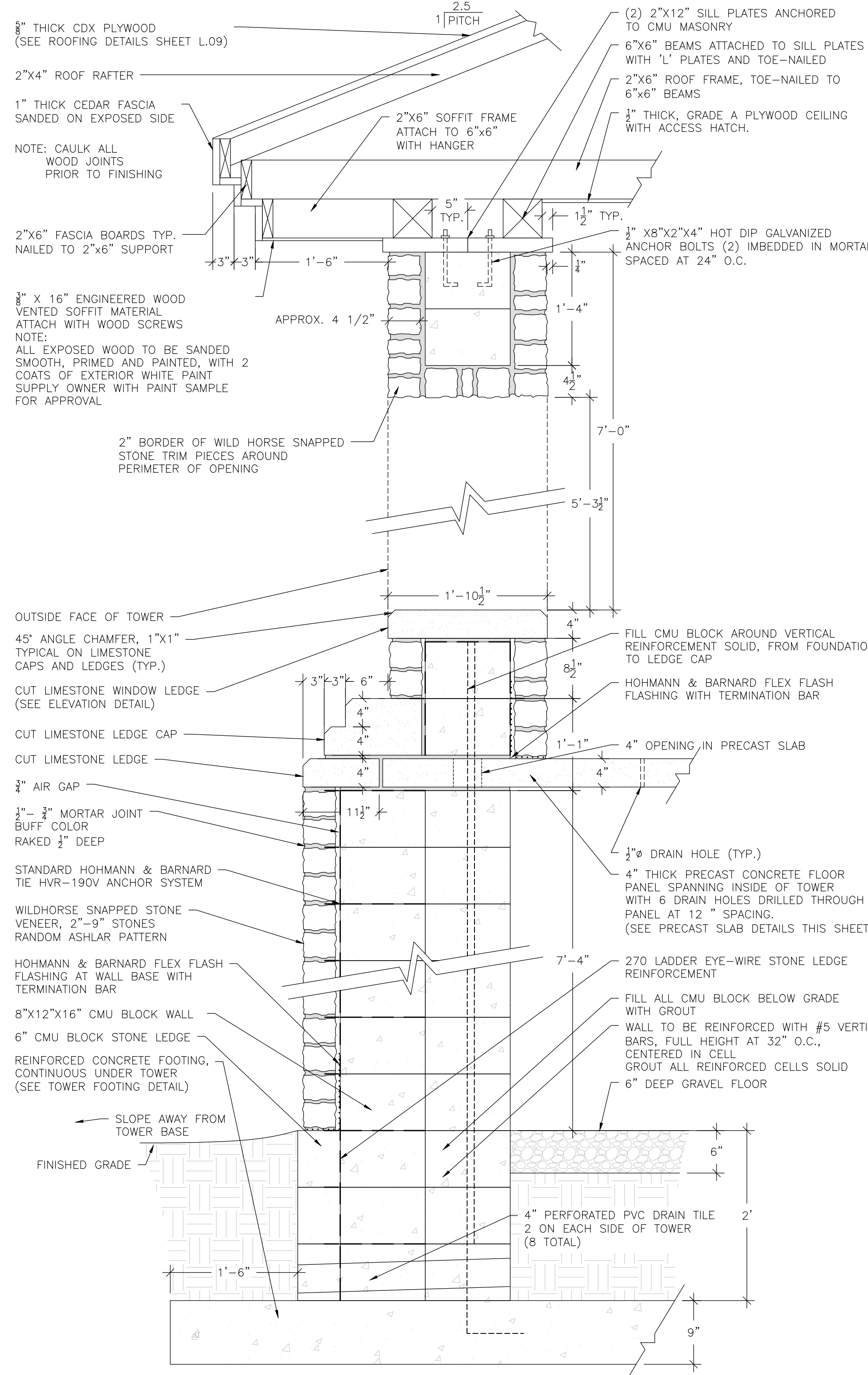
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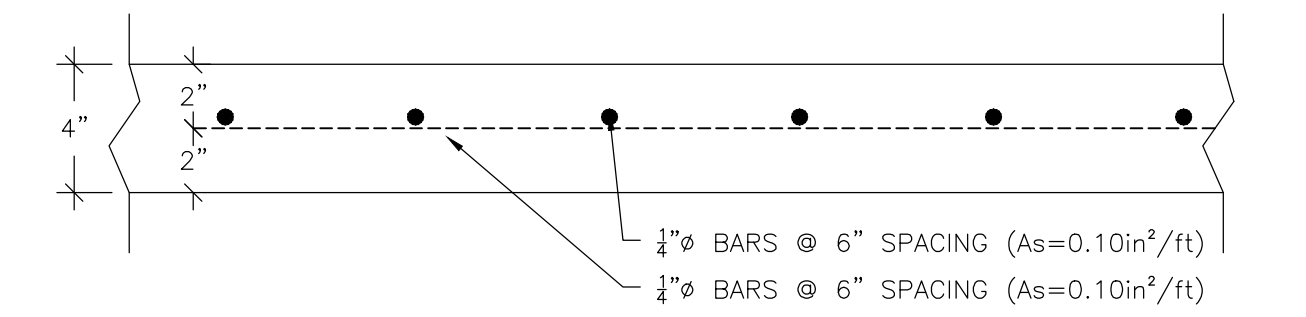
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SHEET NO.  
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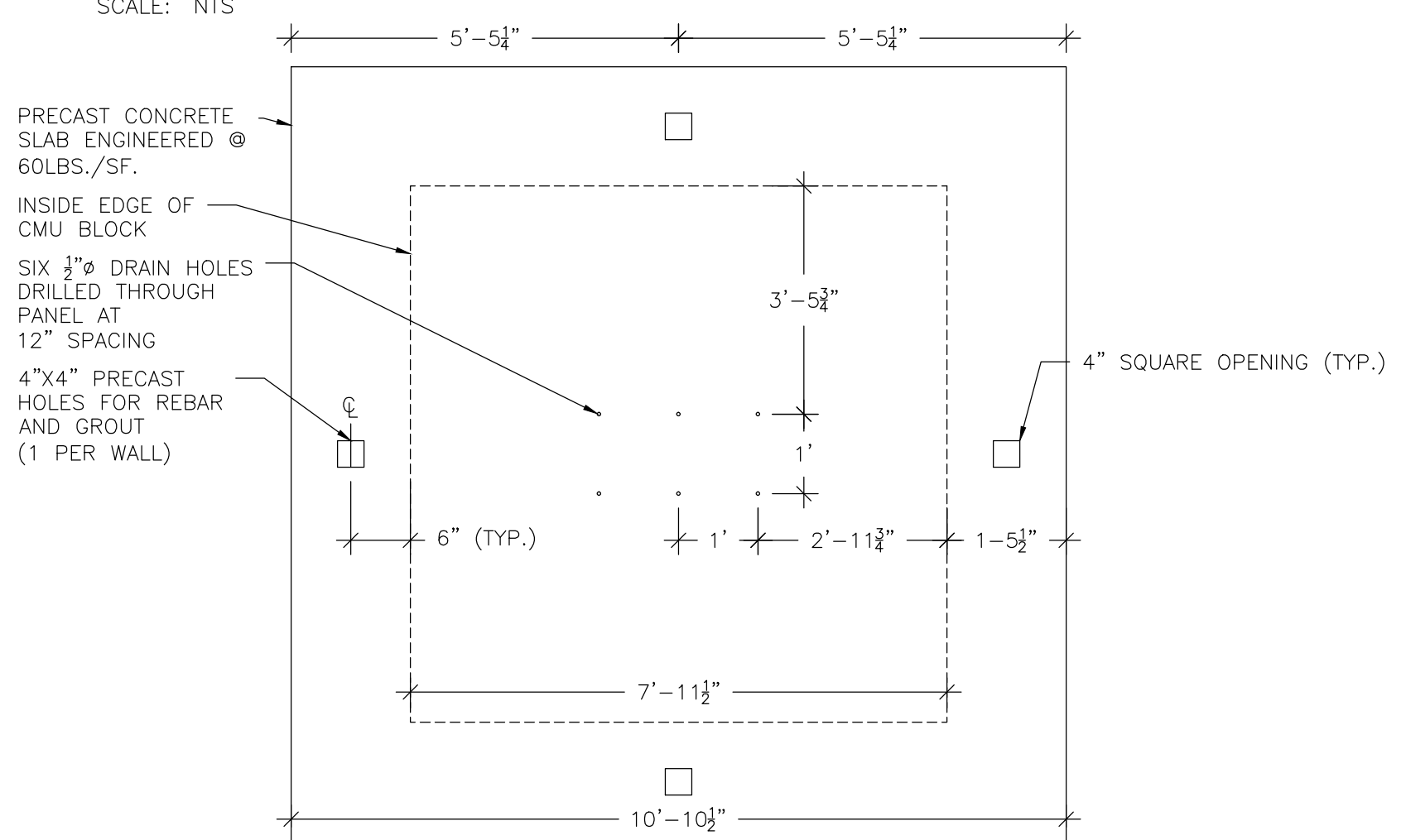


**1 TOWER SECTION DETAIL**  
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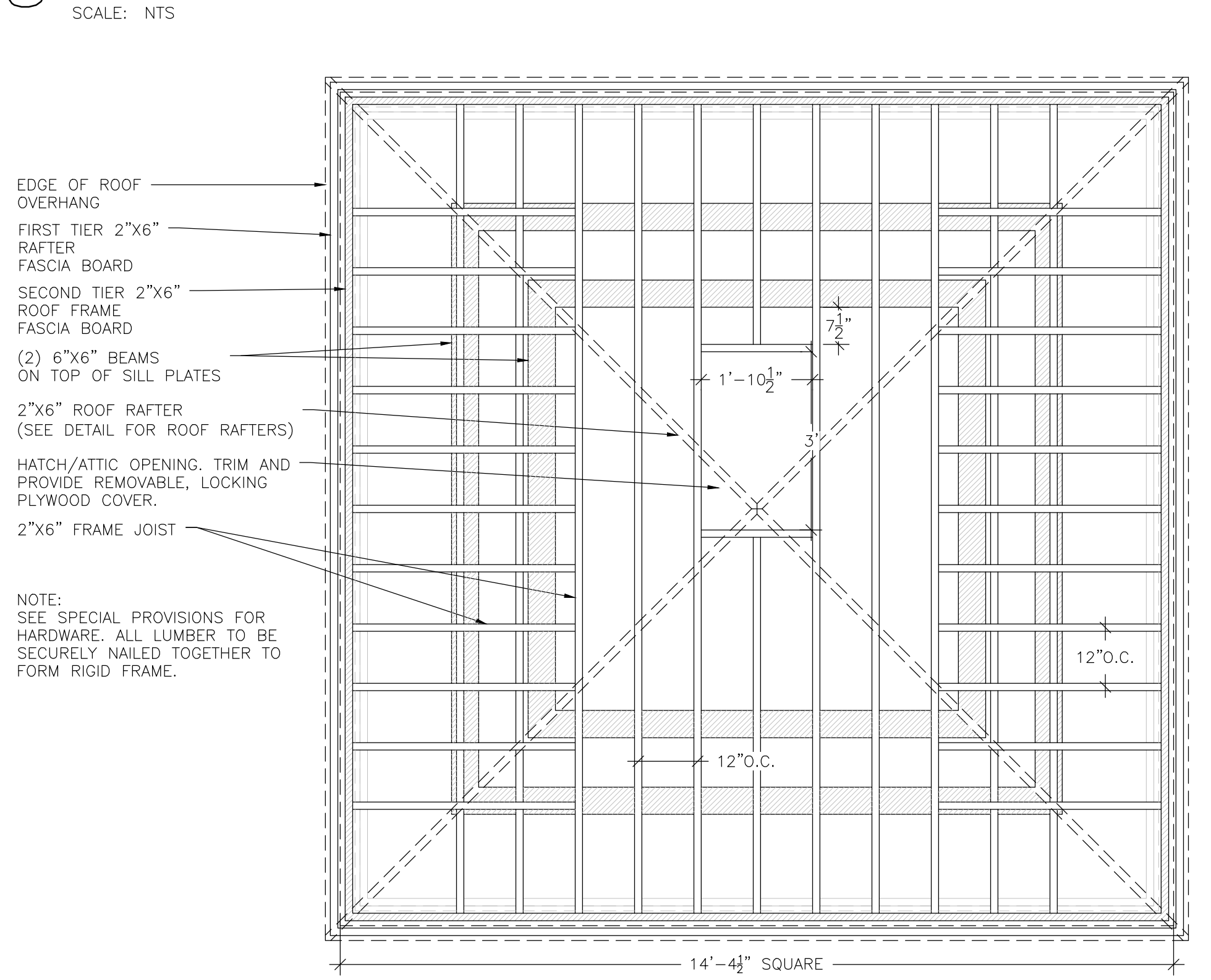


NOTES:  
4" THICK CONCRETE SLAB SHALL BE PRECAST  
MINIMUM 28 DAY CONCRETE COMPRESSIVE STRENGTH SHALL BE 4,000 PSI.  
REINFORCEMENT SHALL BE PLACED AT THE CENTER OF THE SLAB. THE MINIMUM REQUIRED AREA OF STEEL IS 0.10in<sup>2</sup>/ft IN

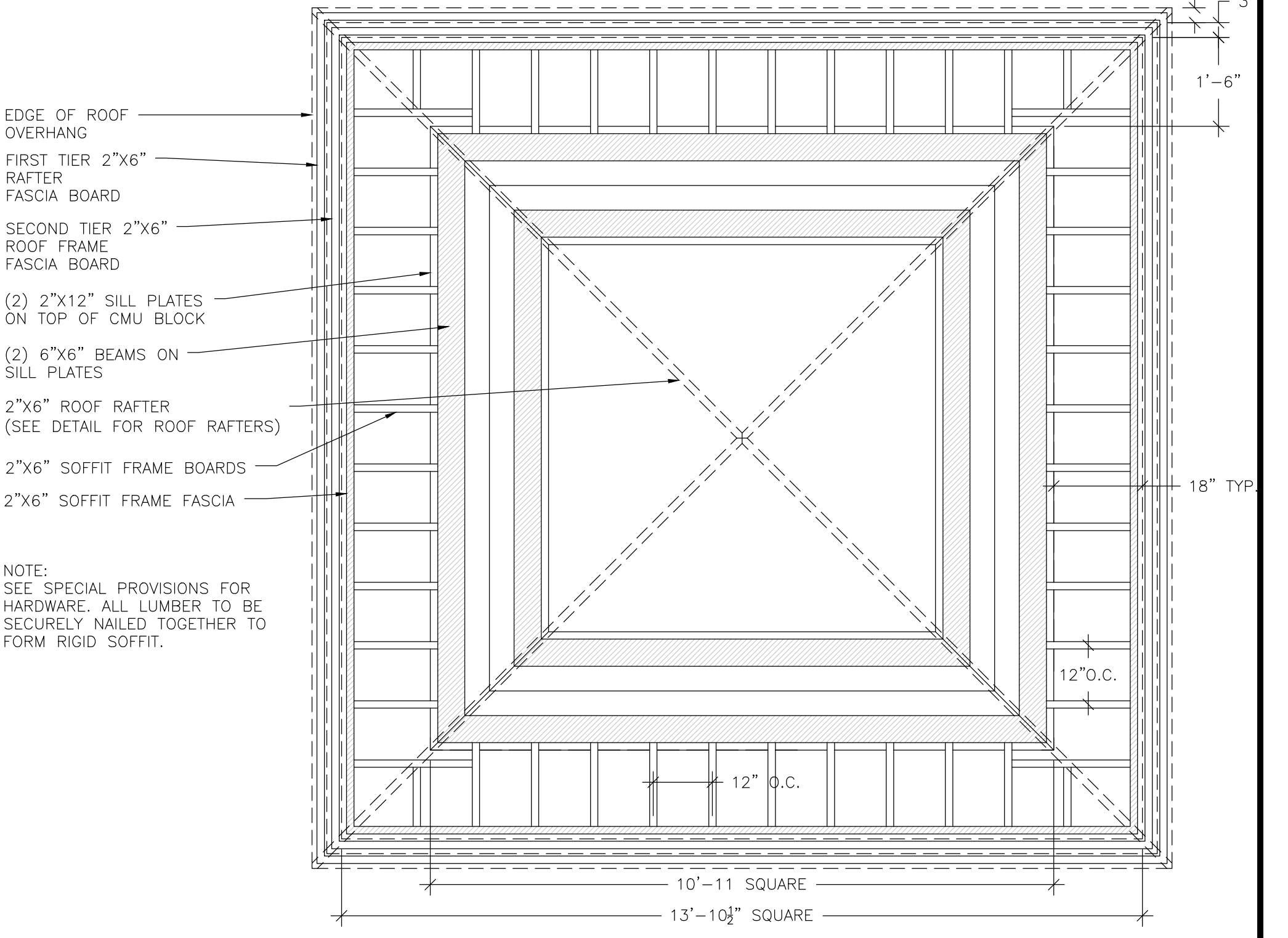
**2 PRECAST SLAB REINFORCEMENT DETAIL**  
SCALE: NTS



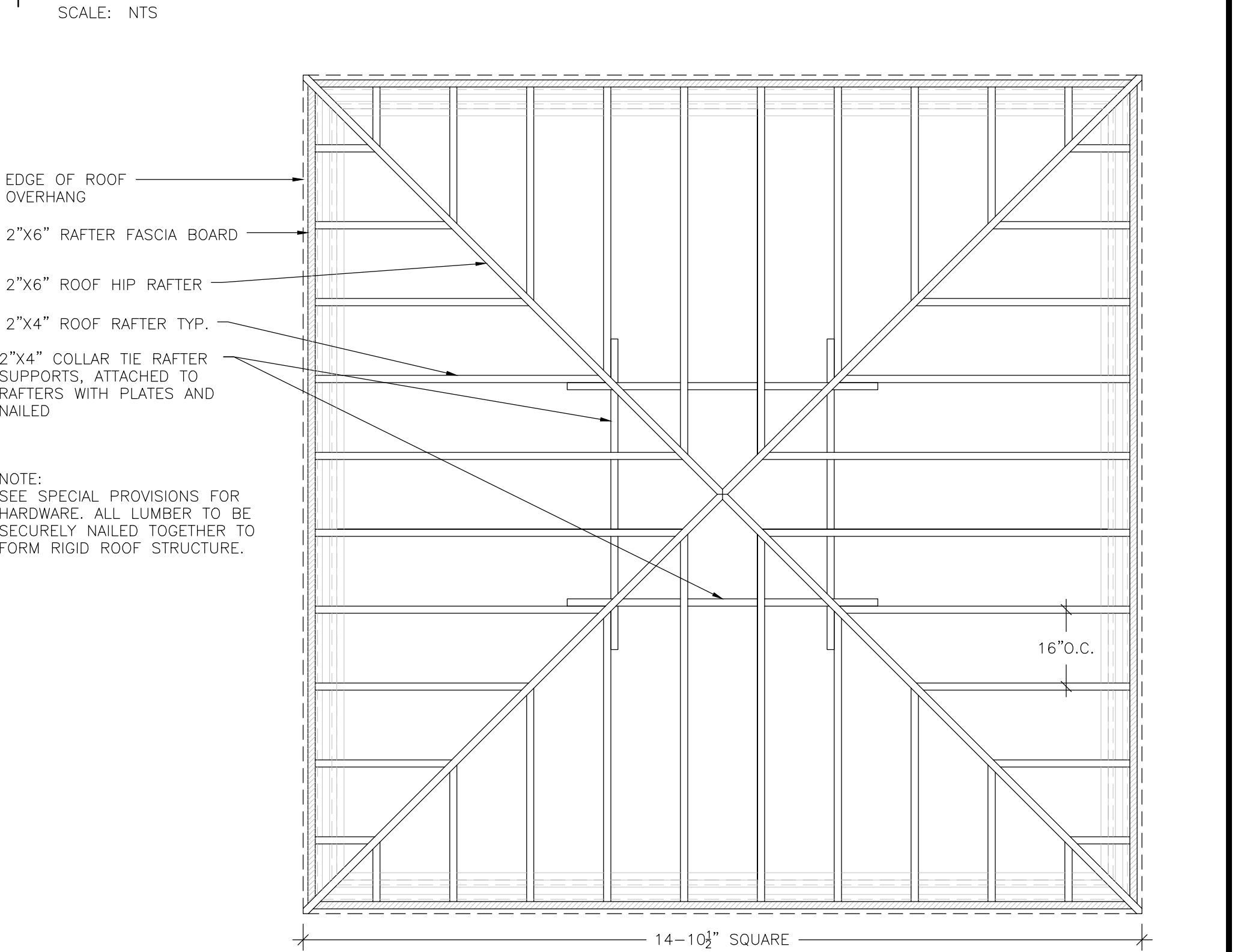
**3 PRECAST SLAB VOID DETAIL**  
SCALE: NTS



**5 ROOF FRAMING DETAIL**  
SCALE: NTS



**4 ROOF BASE/SOFFIT FRAME DETAIL**  
SCALE: NTS



**6 ROOF RAFTER DETAIL**  
SCALE: NTS

Xref: xgl-1-dh01: 86120425\_xl-details

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NO.	DATE	BY	REVISION DESCRIPTION

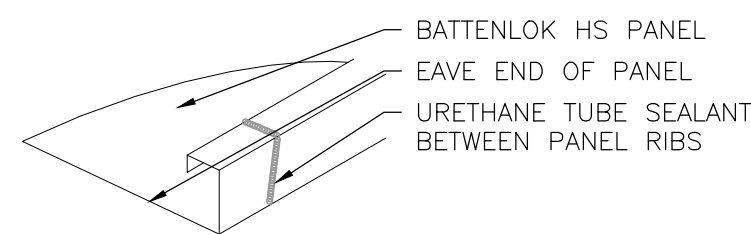


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HARDSCAPE DETAILS

SHEET NO.  
L.08

P-30345-00



**EAVE SEALANT DETAIL**

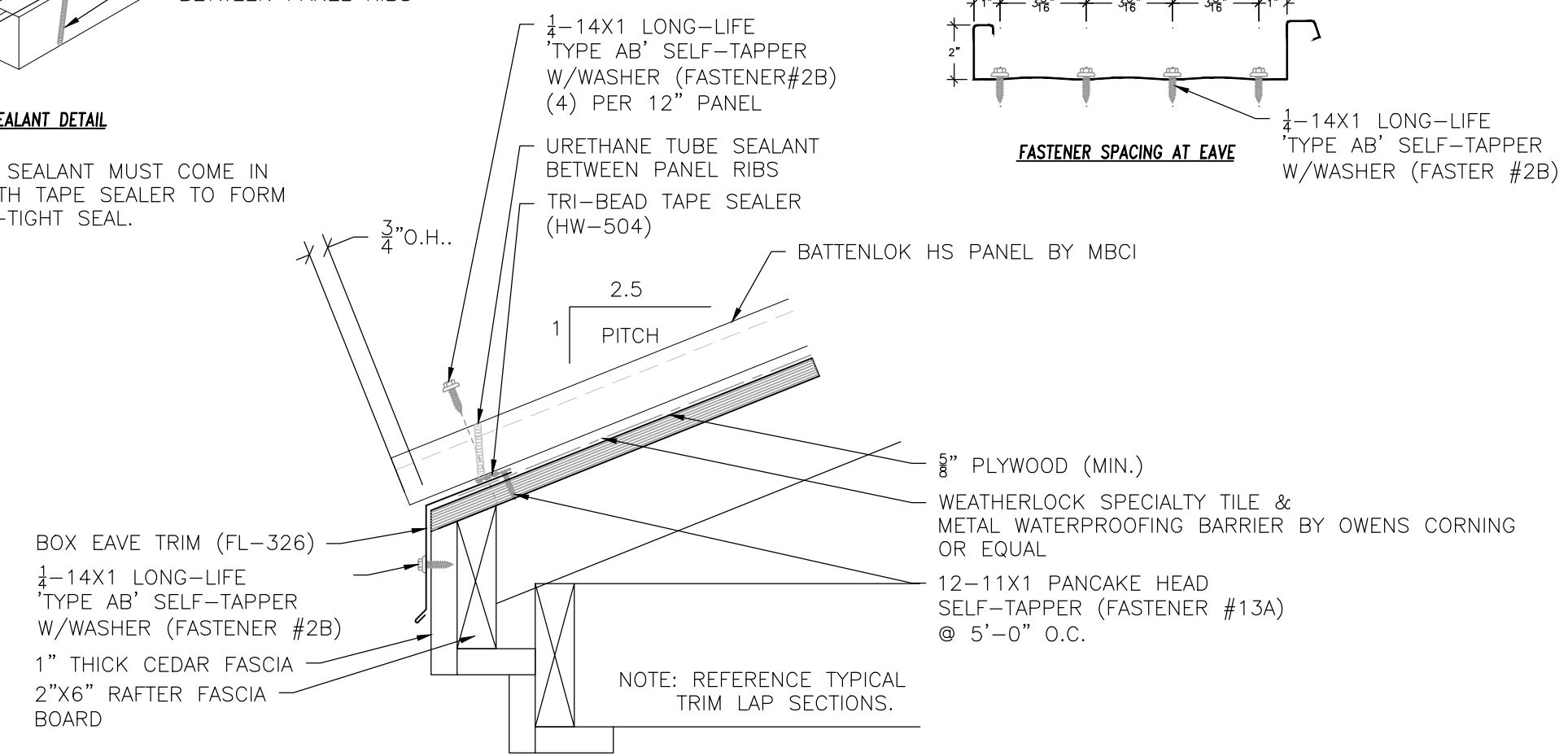
NOTE: URETHANE SEALANT MUST COME IN CONTACT WITH TAPE SEALER TO FORM A WEATHER-TIGHT SEAL.

NOTE: STANDING SEAM METAL ROOF SHALL BE 24 GAUGE, SMOOTH FINISH, BATTENLOK HS 12" PANEL SYSTEM BY MBCI, OR APPROVED EQUAL.

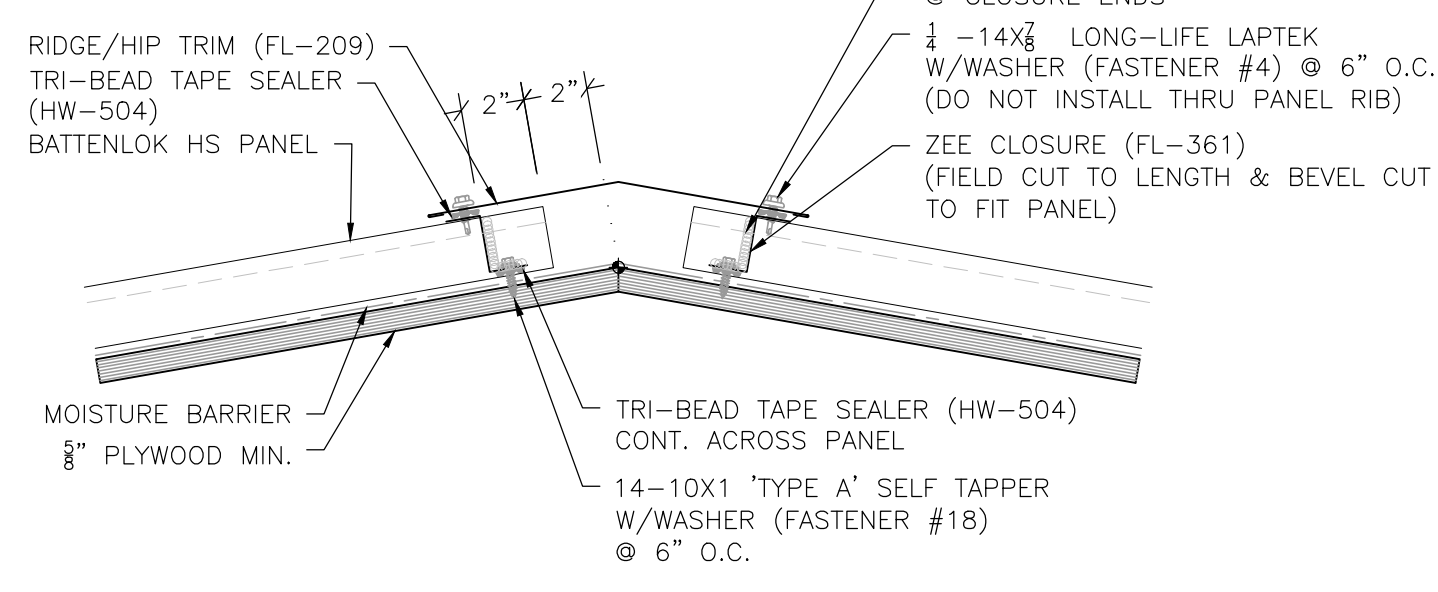
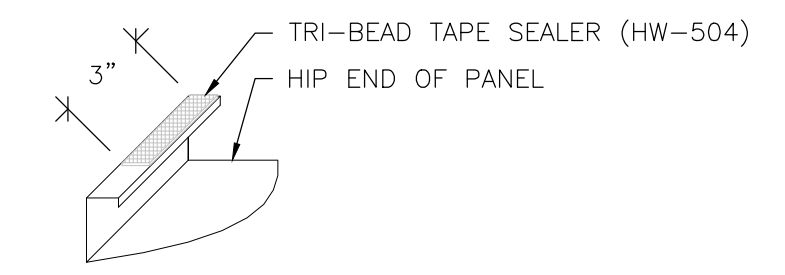
PANELS SHALL BE COATED WITH SIGNATURE 300 FINISH, COLOR TO BE SELECTED BY OWNER.

ROOFING MATERIAL SHALL BE INSTALLED PER MANUFACTURERS INSTRUCTIONS AND SPECIFICATIONS.

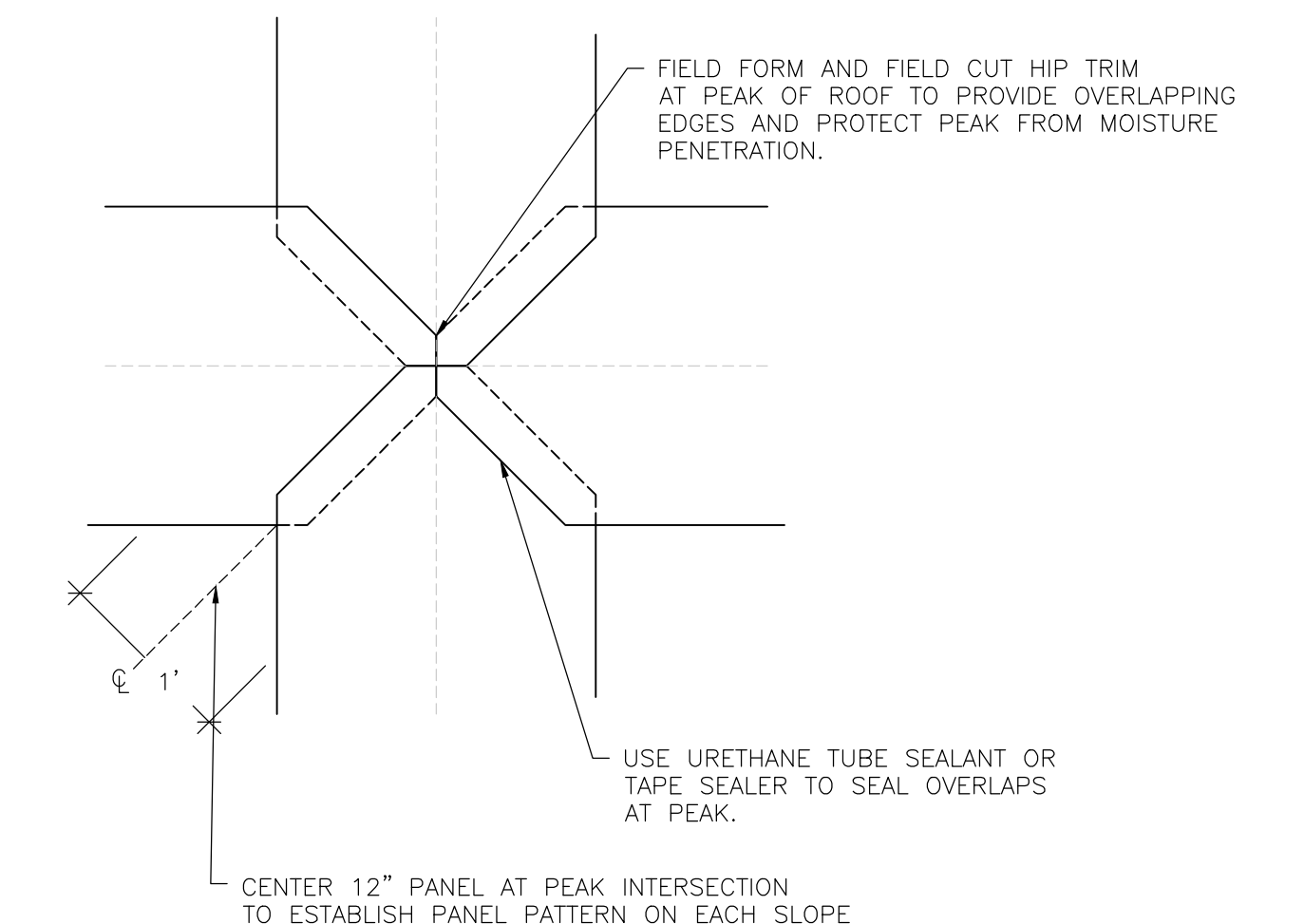
MBCI CONTACT INFORMATION:  
1780 McALL DRIVE  
SHELBYVILLE, IN 46176  
1-800-735-6224



**FASTENER SPACING AT EAVE**



**NOTE: REFERENCE TYPICAL TRIM LAP SECTIONS.**



**NOTE: REFERENCE TYPICAL TRIM LAP SECTIONS.**

**1 STANDING SEAM METAL ROOF DETAIL**

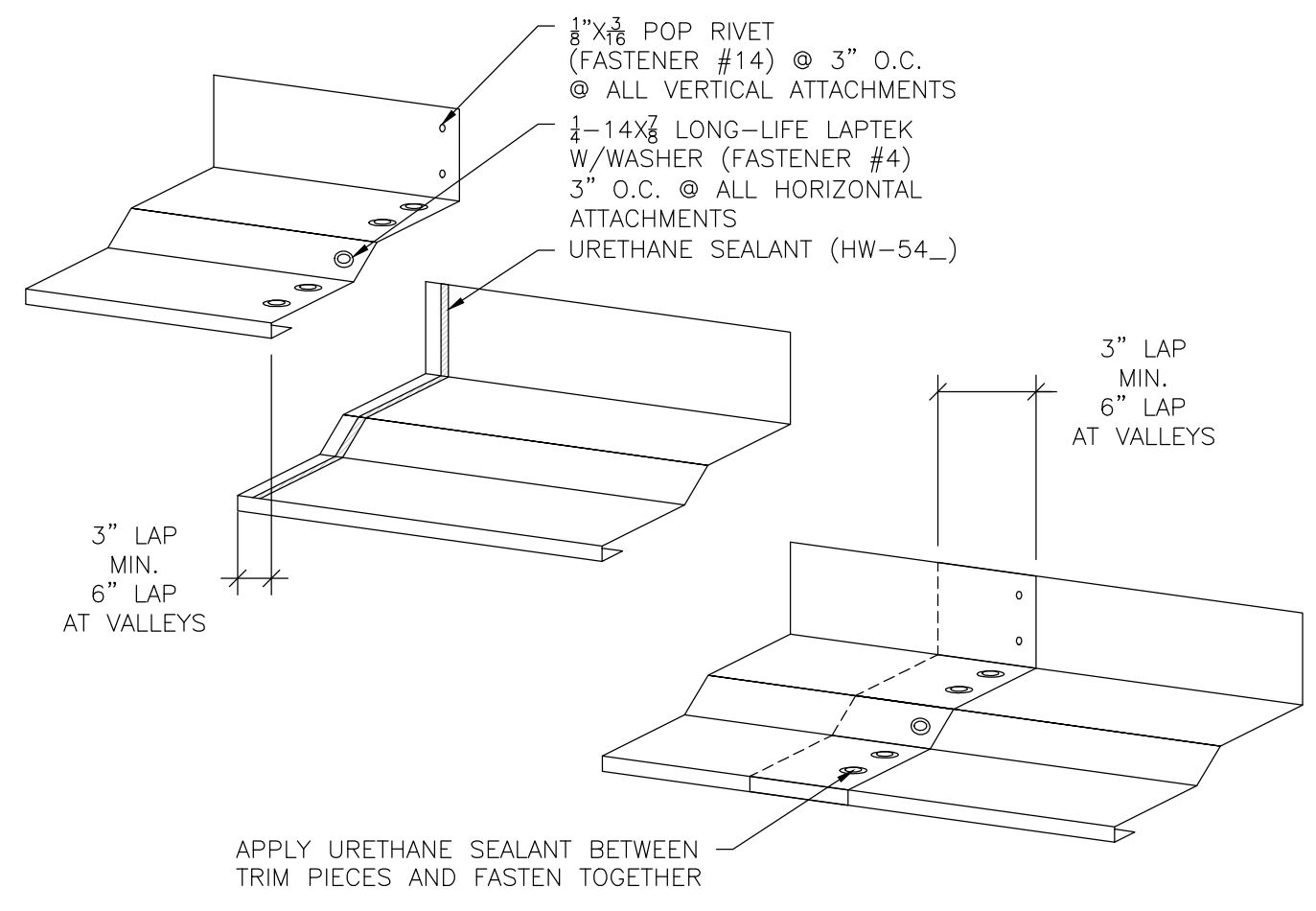
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**2 HIP TRIM METAL ROOF DETAIL**

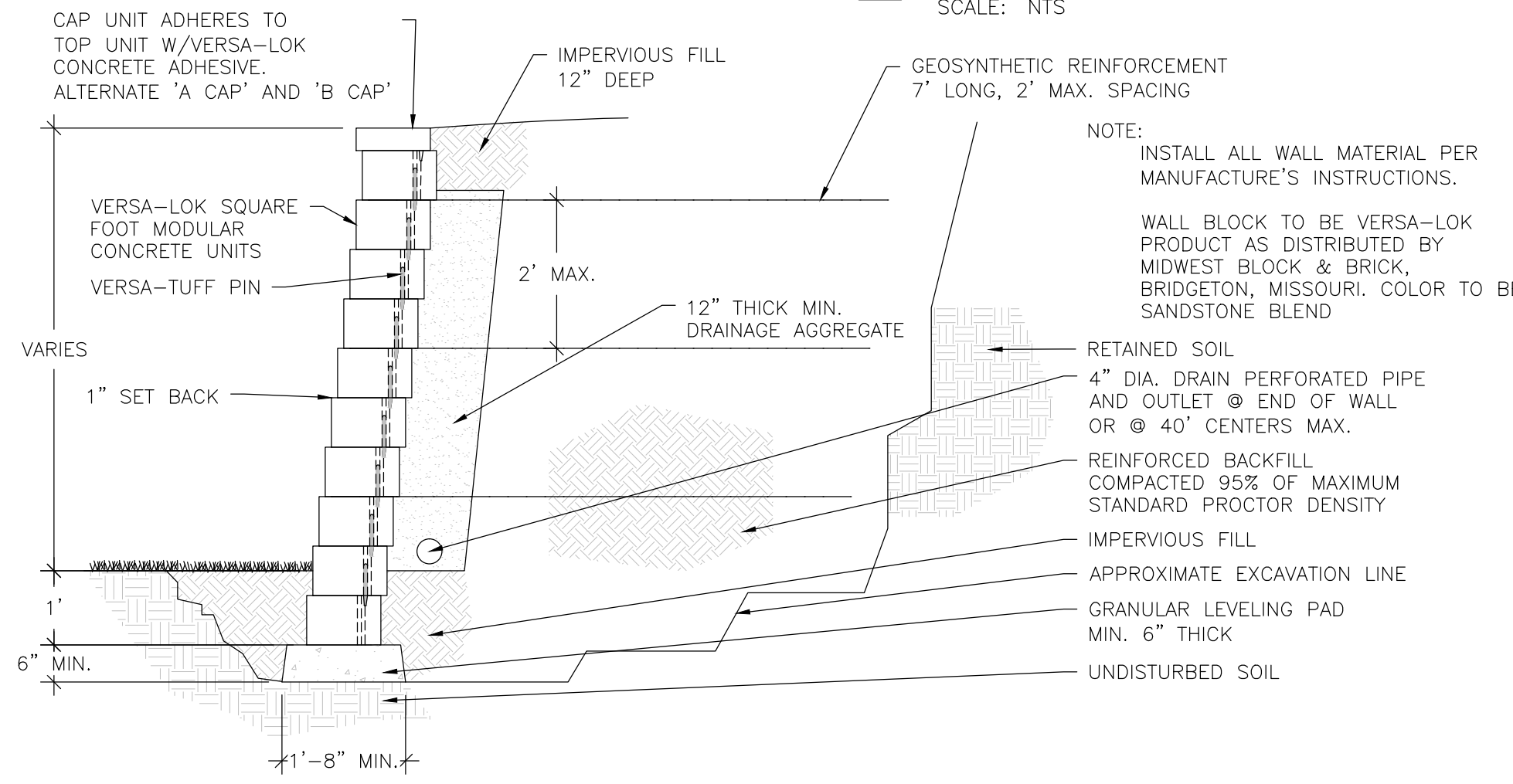
SCALE: NTS

**3 PEAK TRIM DETAIL**

SCALE: NTS



**APPLY URETHANE SEALANT BETWEEN TRIM PIECES AND FASTEN TOGETHER**

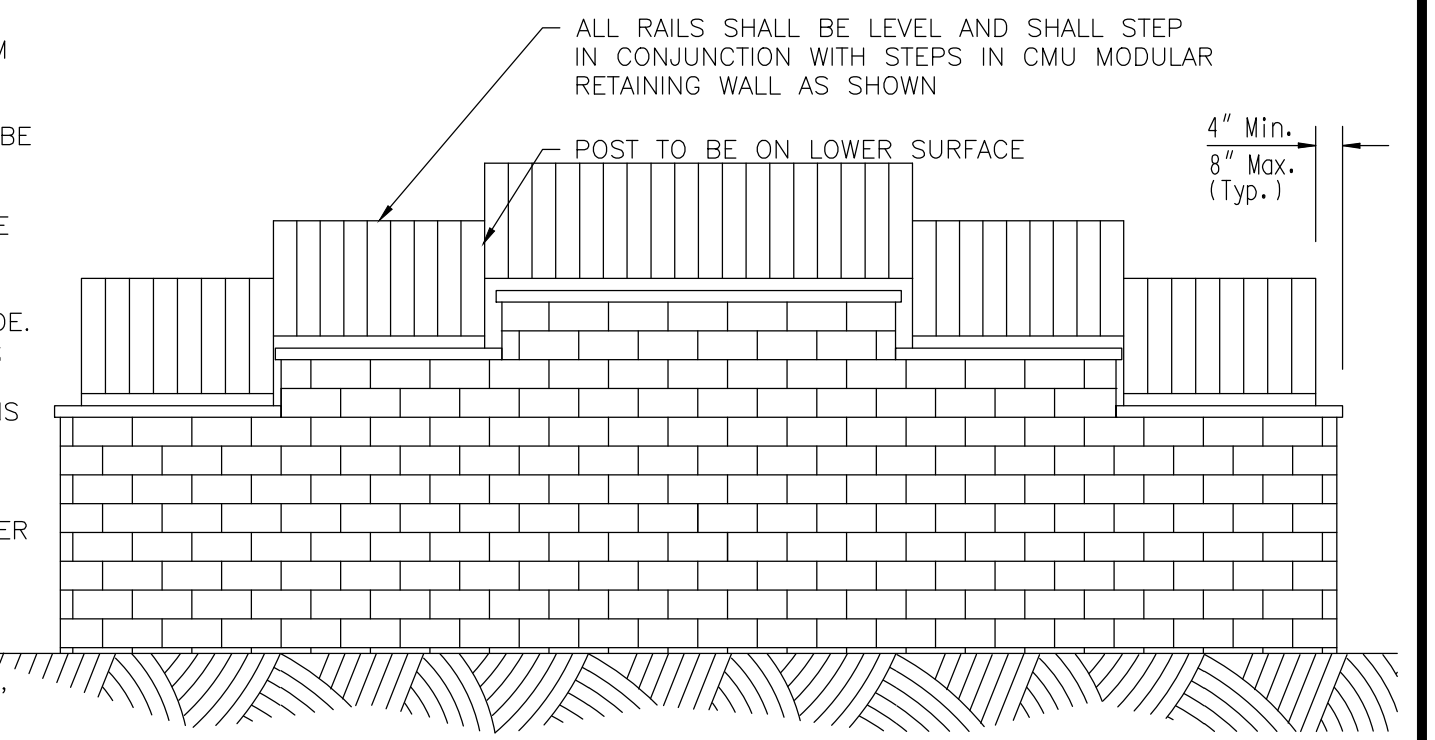


NOTE: INSTALL ALL WALL MATERIAL PER MANUFACTURE'S INSTRUCTIONS.

WALL BLOCK TO BE VERSA-LOK PRODUCT AS DISTRIBUTED BY MIDWEST BLOCK & BRICK, BRIDGETON, MISSOURI. COLOR TO BE SANDSTONE BLEND

**GENERAL NOTES:**

- ALL RAILS, POSTS AND PICKETS SHALL BE FORMED FROM 6063-T5 EXTRUDED ALUMINUM ALLOYS. ALL RAILING ACCESSORIES SHALL BE CAST FROM ANSI 713 ALLOY. ALL EXPOSED FASTENERS USED IN THE SYSTEM SHALL BE ALUMINUM OR STAINLESS STEEL.
- THE RAILING SYSTEM SHALL CONSIST OF 2-1/2" SQUARE POSTS THAT ARE GROUDED IN THE 4" DIAMETER PVC SLEEVES AS SHOWN. THE TOP RAIL SHALL BE 2-1/2" WIDE AND THE BOTTOM RAIL A MINIMUM OF 1-5/8" WIDE. PICKETS SHALL BE 3/4" SQUARE, ON 4-1/2" CENTERS AND SHALL RUN BETWEEN THE TOP AND BOTTOM RAIL. THE TOP RAIL SHALL BE CONTINUOUS FOR ALL SECTIONS LESS THAN 24' IN LENGTH.
- PAYMENT FOR FURNISHING THE ALUMINUM HANDRAIL FOR RETAINING WALLS SHALL BE COMPLETELY COVERED UNDER THE CONTRACT UNIT PRICE BID FOR "ALUMINUM HANDRAIL," PER LIN. FT.
- THE FOLLOWING SYSTEM IS APPROVED FOR USE: SUPERIOR SERIES 900 HEAVY-DUTY ALUMINUM RAILINGS, BY SUPERIOR ALUMINUM PRODUCTS, INC., RUSSIA, OHIO 45363.
- OTHER SYSTEMS WILL BE CONSIDERED FOR USE, PROVIDED THAT THEY ARE CONSTRUCTED FROM ALUMINUM, CAN BE FINISHED AS REQUIRED AND CAN MEET THE INSTALLATION REQUIREMENTS.
- ALL RAILINGS SHALL BE FINISHED WITH BLACK COLOR TO MATCH EXISTING RAILING AT BRIDGE ABUTMENT.



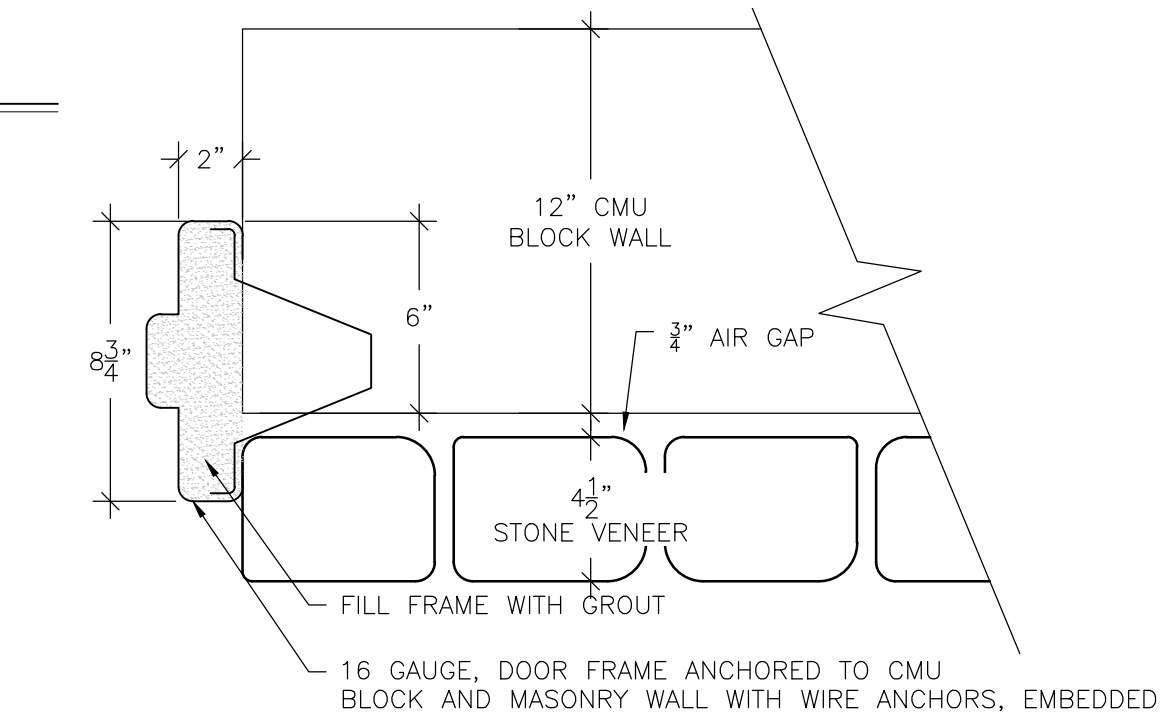
**NOTE: ST. LOUIS COUNTY DEPARTMENT OF HIGHWAYS AND TRAFFIC STANDARD DETAIL**

**4 TRIM LAP SECTION DETAIL**

SCALE: NTS

**5 RETAINING WALL DETAIL**

SCALE: NTS

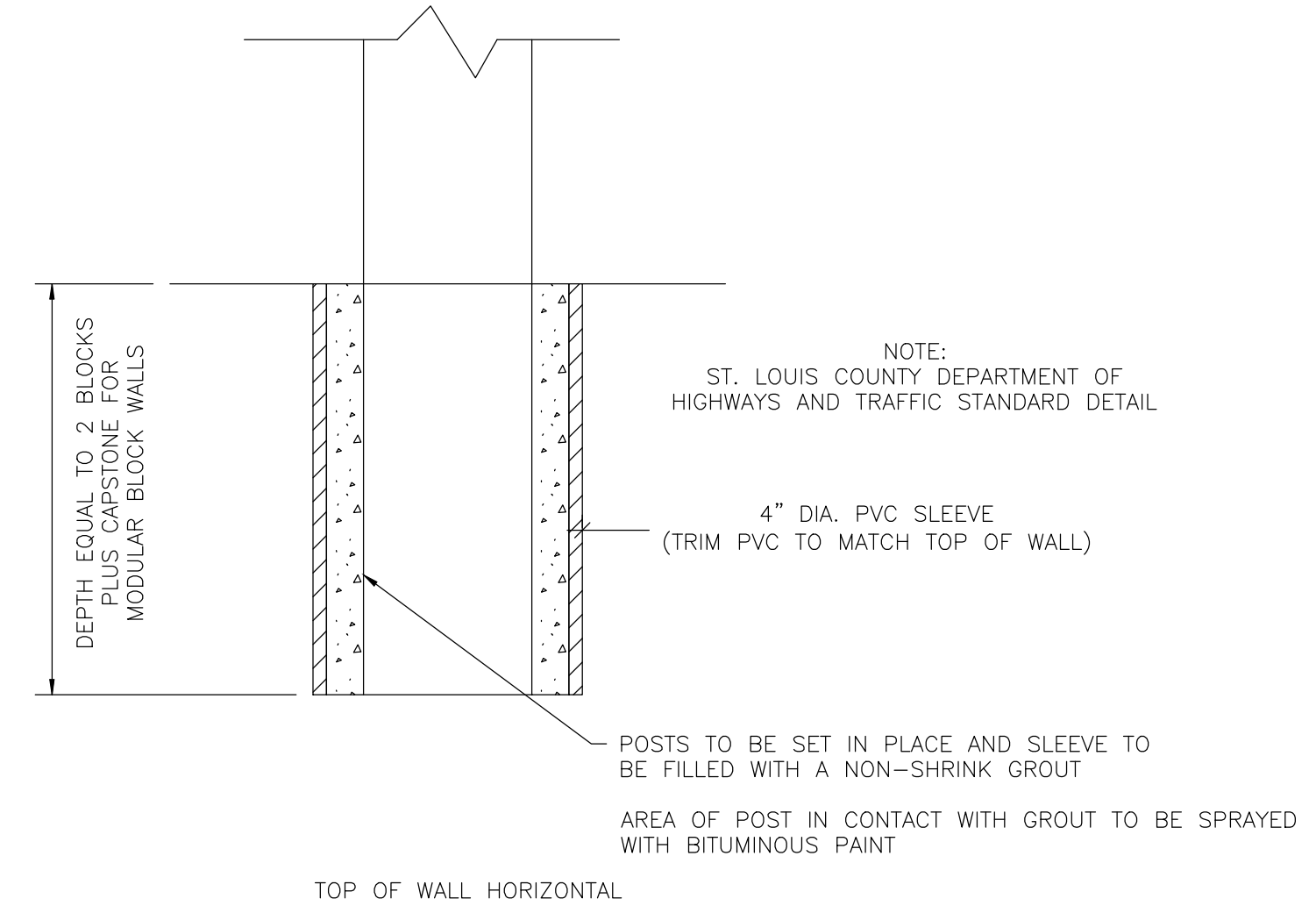


**8 DOOR FRAME ANCHORING DETAIL**

SCALE: NTS

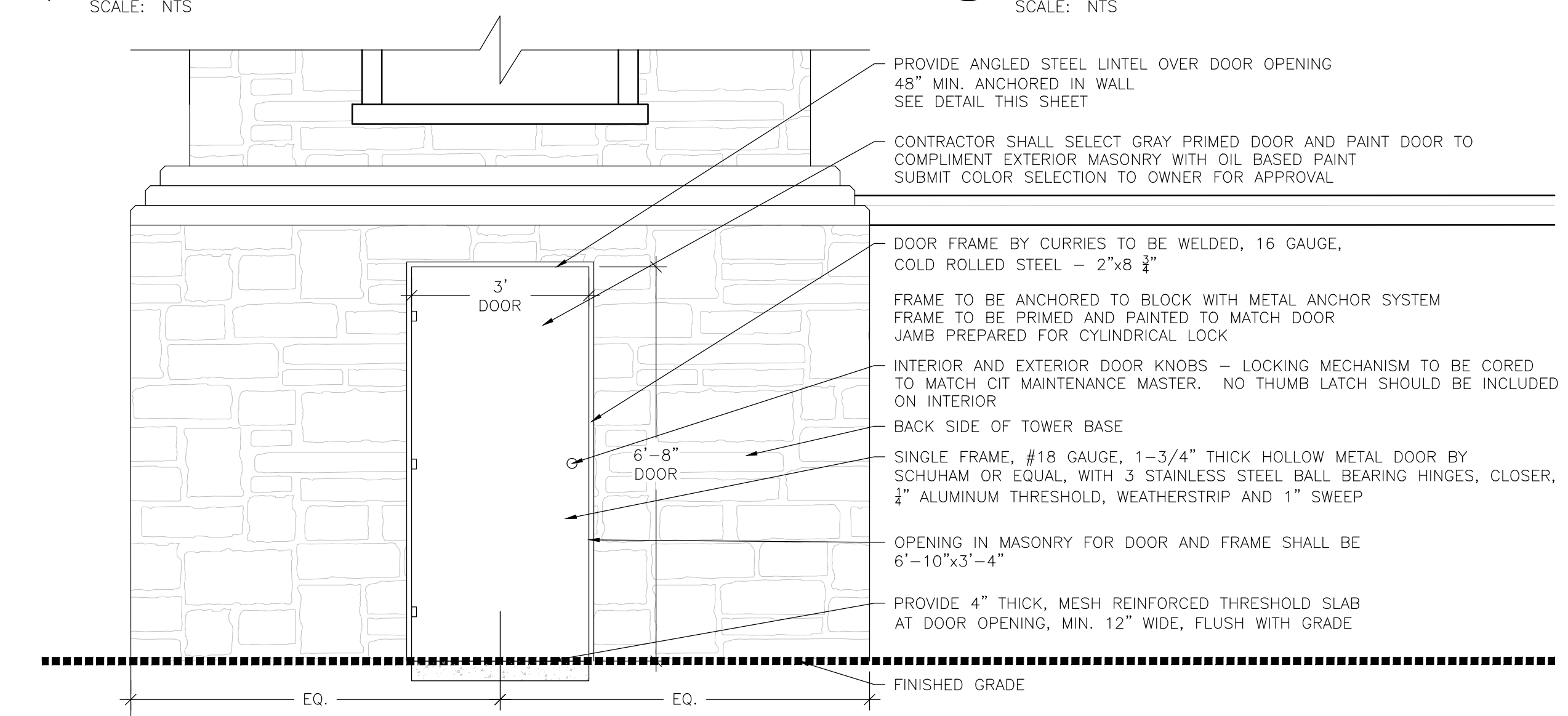
**6 ELEVATION OF HANDRAIL ON MODULAR BLOCK WALL**

SCALE: NTS



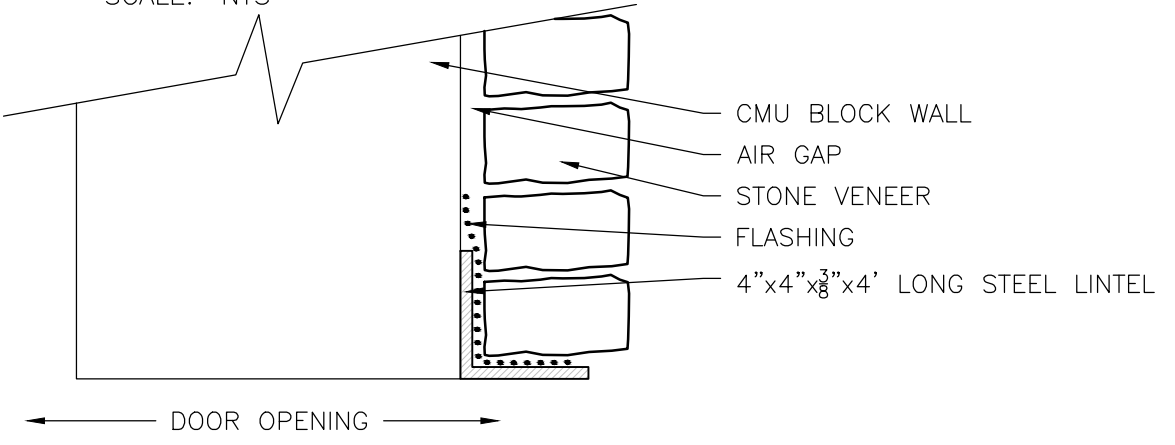
**NOTE: ST. LOUIS COUNTY DEPARTMENT OF HIGHWAYS AND TRAFFIC STANDARD DETAIL**

POSTS TO BE SET IN PLACE AND SLEEVE TO BE FILLED WITH A NON-SHRINK GROUT  
AREA OF POST IN CONTACT WITH GROUT TO BE SPRAYED WITH BITUMINOUS PAINT



**7 TOWER DOOR DETAIL**

SCALE: NTS



**9 DOOR LINTEL DETAIL**

SCALE: NTS

**10 HANDRAIL POST ANCHORING TO WALL DETAIL**

SCALE: NTS

P-30345-00

Xrefs: xgl-1-dh01, 86120425\_xl-details

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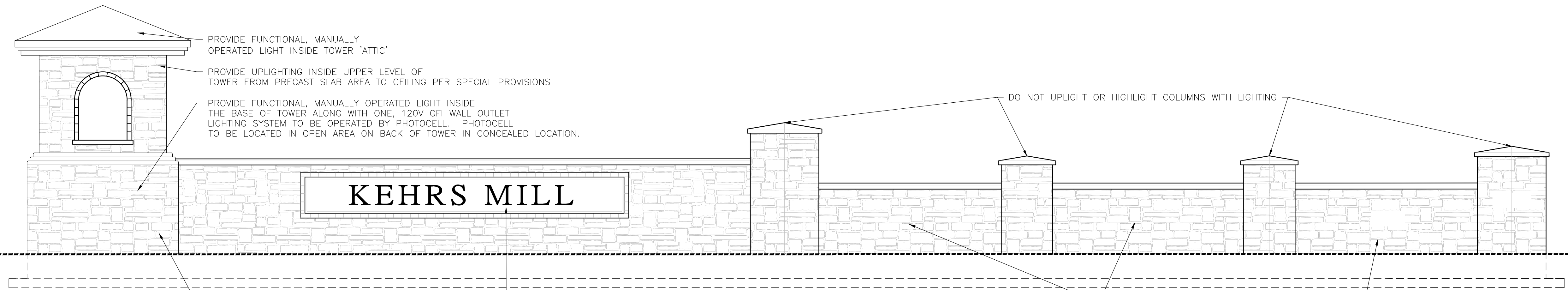
NO.	DATE	BY	REVISION DESCRIPTION



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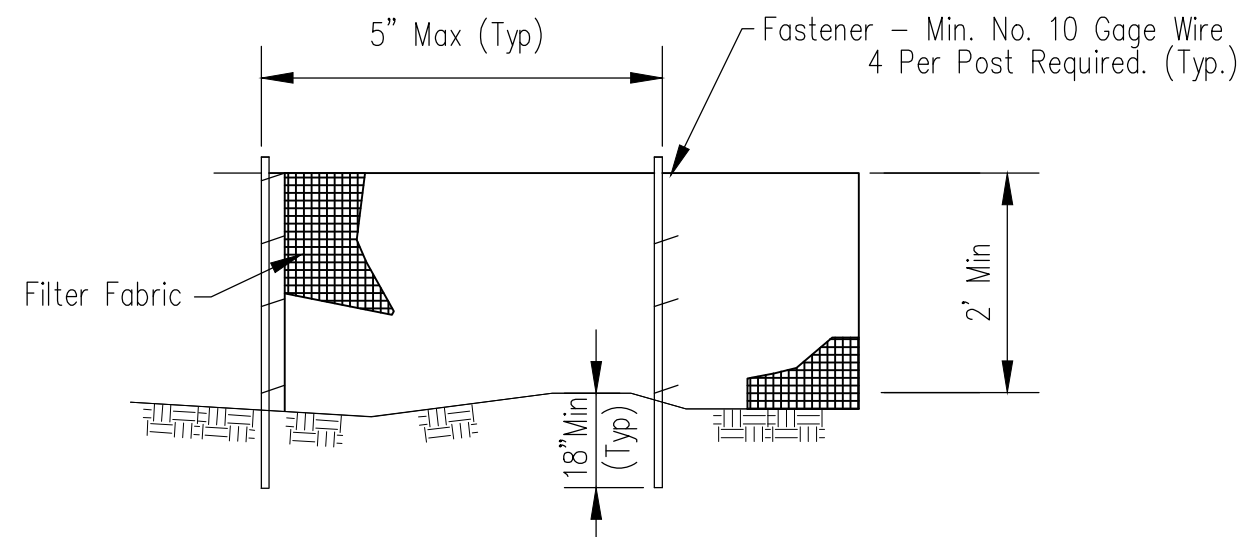
LANDSCAPE  
HARDSCAPE DETAILS

SHEET NO.  
L.09

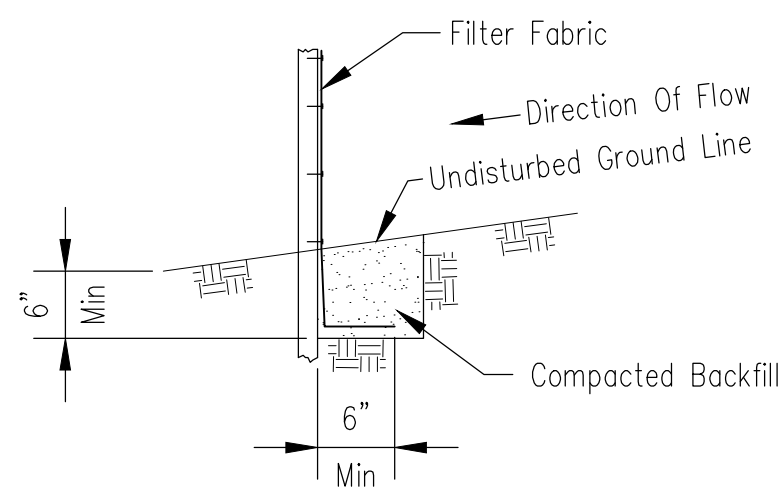


NOTES:  
 1. THIS DRAWING IS SCHEMATIC ONLY AND IS INTENDED TO PORTRAY LIGHTING DESIGN INTENT ONLY. THE CONTRACTOR WILL BE SOLELY RESPONSIBLE FOR DESIGN AND INSTALLATION OF THE LIGHTING SYSTEM PER THE SPECIAL PROVISIONS. ALL NECESSARY SHOP DRAWINGS FOR DESIGN, MATERIALS, COMPONENTS, WIRING, ETC. TO BE SUPPLIED TO OWNER FOR APPROVAL.  
 2. CONTRACTOR TO COORDINATE LIGHTING DESIGN AND INSTALLATION WITH OTHER TRADES.

1 LIGHTING DIAGRAM  
 SCALE: NTS



ELEVATION



FABRIC ANCHOR DETAIL

NOTES:  
 1. Temporary sediment fence shall be installed prior to any grading work in the area to be protected. They shall be maintained throughout the construction period and removed in conjunction with the final grading and site stabilization.  
 2. Filter fabric shall meet the requirements of material specification 592 Geotextile Table 1 or 2, Class 1 with equivalent opening size of at least 30 for nonwoven and 50 for woven.  
 3. Fence posts shall be either wood post with a minimum cross-sectional area of 3.0 sq. in. or a standard steel post.

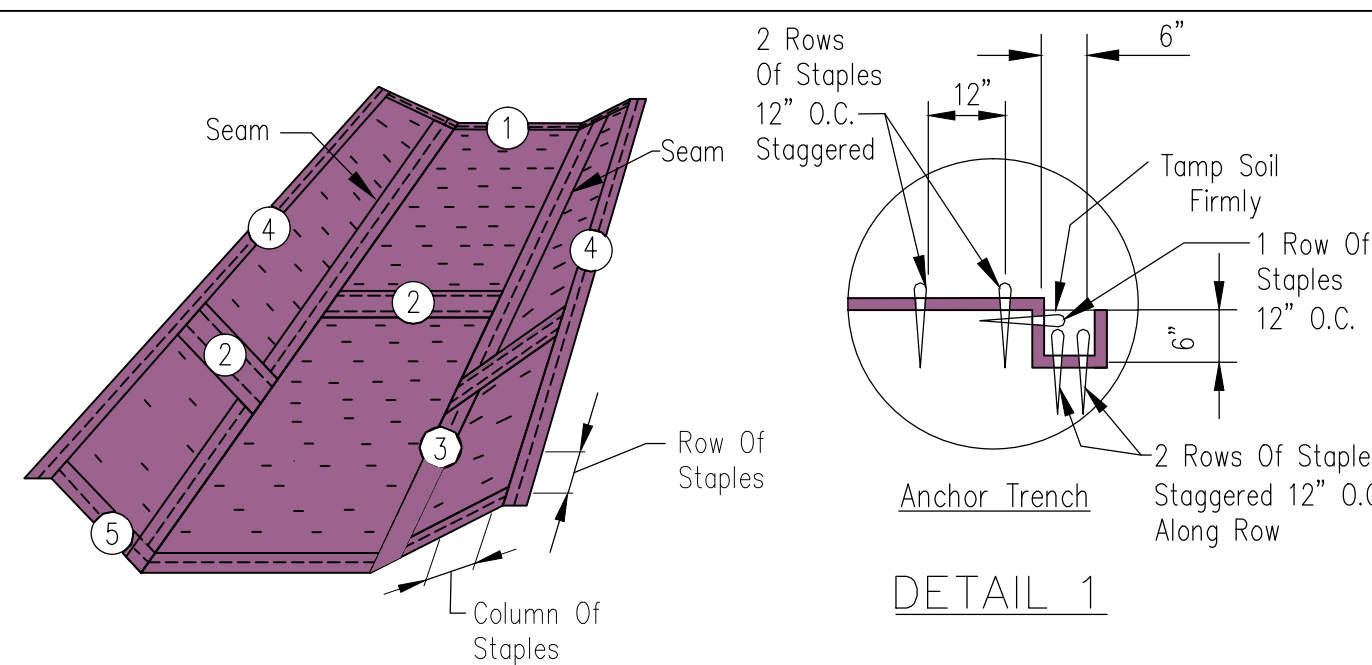
DATE: 7/2/14  
 DESIGNED BY: M. GUNNING  
 DRAWN BY: M. GUNNING  
 CHECKED BY: M. GUNNING  
 APPROVED BY: M. GUNNING

SILT FENCE

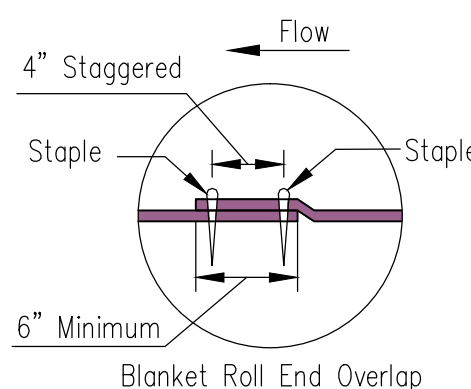
NRCS  
 Natural Resources Conservation Service  
 United States Department of Agriculture

File No. IL-ENG-49  
 Drawing No.

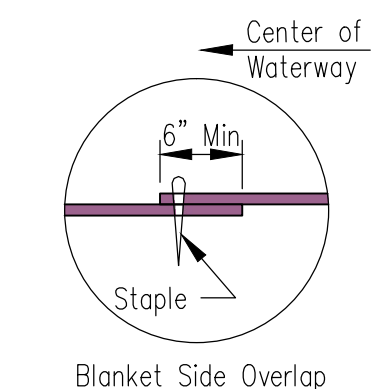
Sheet 1 of 1



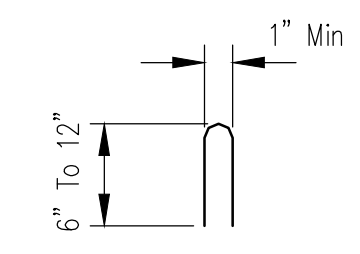
DETAIL 1



DETAIL 2



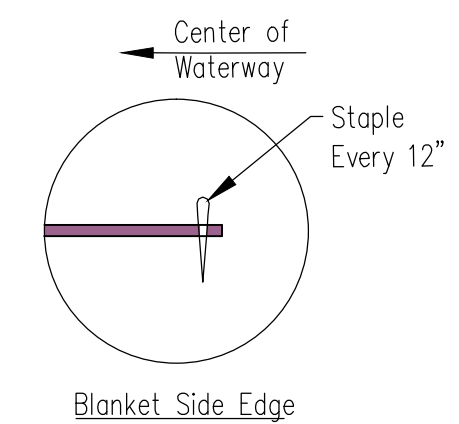
DETAIL 3



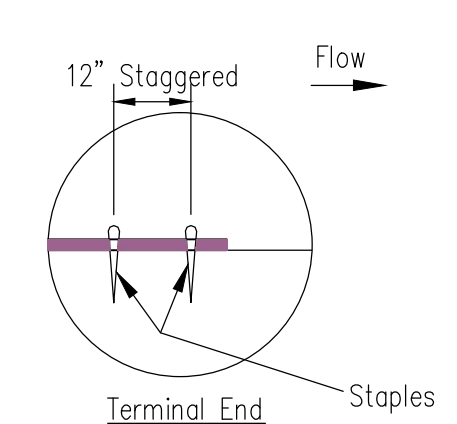
STAPLE DETAIL

NOTES:  
 1. Install erosion control blanket (ECB) over waterway. Waterway Width \_\_\_\_\_ft  
 ECB width \_\_\_\_\_ft  
 length \_\_\_\_\_ft  
 Sta. \_\_\_\_\_ to \_\_\_\_\_  
 2. The erosion control blanket shall consist of a machine produced mat of curled wood or coconut fibers, shall have an expected material life of at least 12 months, shall be new and unused, shall be furnished in rolls, and shall meet the minimum requirements stated in Table 1 below.  
 3. Prepare soil prior to installing erosion control blanket, including seeding, fertilizing, and lime application.  
 4. The erosion control blanket shall be placed in firm contact with the soil and not be allowed to bridge over surface irregularities. The blanket shall not be stretched.  
 5. Start laying the blankets by rolling center blanket in the direction of flow, centered on the centerline of waterway. There shall not be an overlap of blankets at the center of the waterway.  
 6. The erosion control blanket shall be anchored, overlapped, and stapled according to manufacturer's instructions. If no manufacturer's instructions are available, install the blanket as follows:  
 a. Staples shall be "U" shaped, 0.12 in diameter wire or greater (#11 gauge). See Staple Detail for dimensions.  
 b. Bury upstream end of blanket in a trench 6 inch wide by 6 inch deep and stapled in staggered rows across the width as shown in Detail 1.  
 c. For joining ends of rolls, overlap end of upslope blanket a minimum of 6 inches over downslope blanket (shingle style). Use a double row of staggered staples 4 inches apart, as shown in Detail 2.  
 d. Blankets on side slopes shall overlap a minimum 6 inches over the blanket below (shingle style). Staple overlap at 12 inch intervals. See Detail 3.  
 e. The outer edge along sides of the blanket shall be stapled every 12 inches. See Detail 4.  
 f. Staples are to be placed alternately in columns (in the direction of the waterway) 2 feet apart and in rows (across the waterway) 3 feet apart, throughout the area covered by erosion blanket.  
 g. Downstream (terminal) end of blanket shall be stapled with a double row of staggered staples 12 inches apart. See Detail 5.

	Coconut Blanket	Wood Fiber Blanket
Type of Fiber	100% coconut fibers	100% curled wood fibers
Weight, lbs/sq. yd	0.50	0.63
Fiber Length	N/A	80% of fibers > 6 in.
Fiber Dimensions	N/A	0.021 in. x 0.042 in.
	Optional - Top and bottom of blanket may be covered with a max. 5/8" x 5/8" opening size netting, bound to the mat on max. 1.5" centers.	Optional - Top and bottom of blanket may be covered with a max. 5/8" x 5/8" opening size netting



DETAIL 4



DETAIL 5

Not To Scale

DATE: 7/2/14  
 DESIGNED BY: M. GUNNING  
 DRAWN BY: M. GUNNING  
 CHECKED BY: M. GUNNING  
 APPROVED BY: M. GUNNING

EROSION BLANKET  
 INSTALLATION DETAILS

NRCS  
 Natural Resources Conservation Service  
 United States Department of Agriculture

File No. IL-ENG-61  
 Drawing No.

Sheet 1 of 1

2 EROSION BLANKET DETAIL  
 SCALE: NTS

1 SILT FENCE DETAIL  
 SCALE: NTS

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 APPROVED: DLR JOB NUMBER: 86120425  
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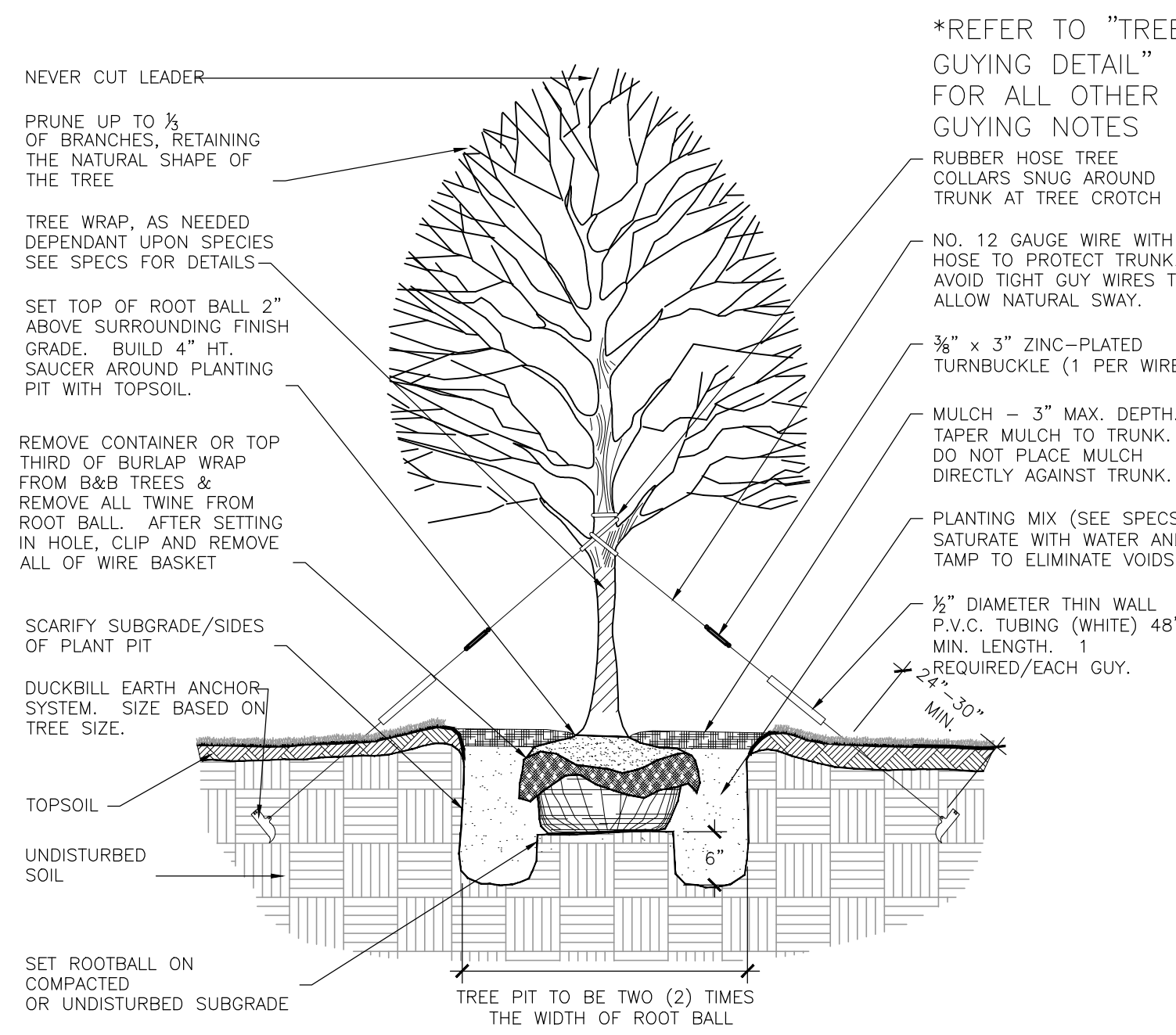
NO.	DATE	BY	REVISION DESCRIPTION

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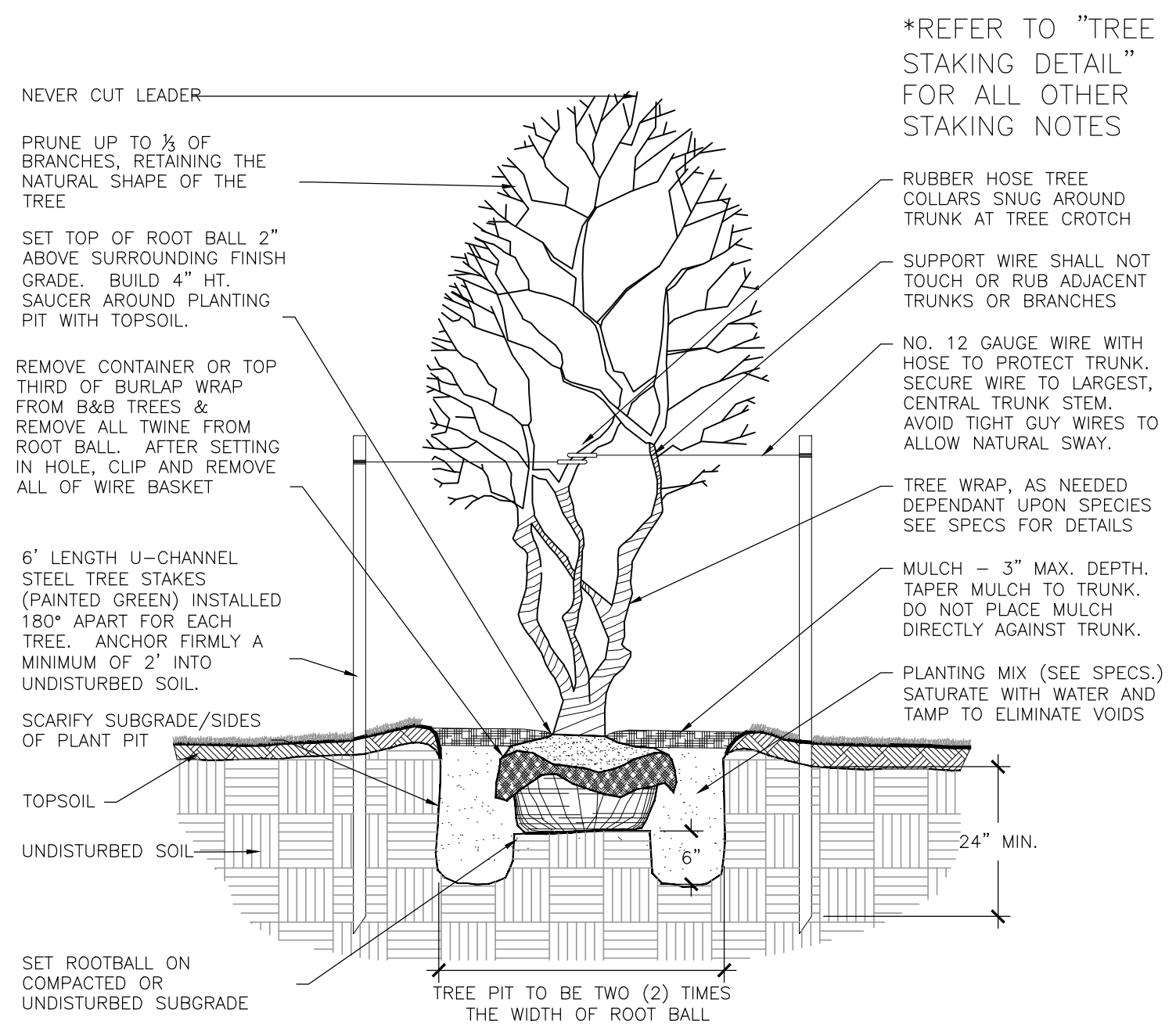
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LANDSCAPE  
 HARDSCAPE DETAILS

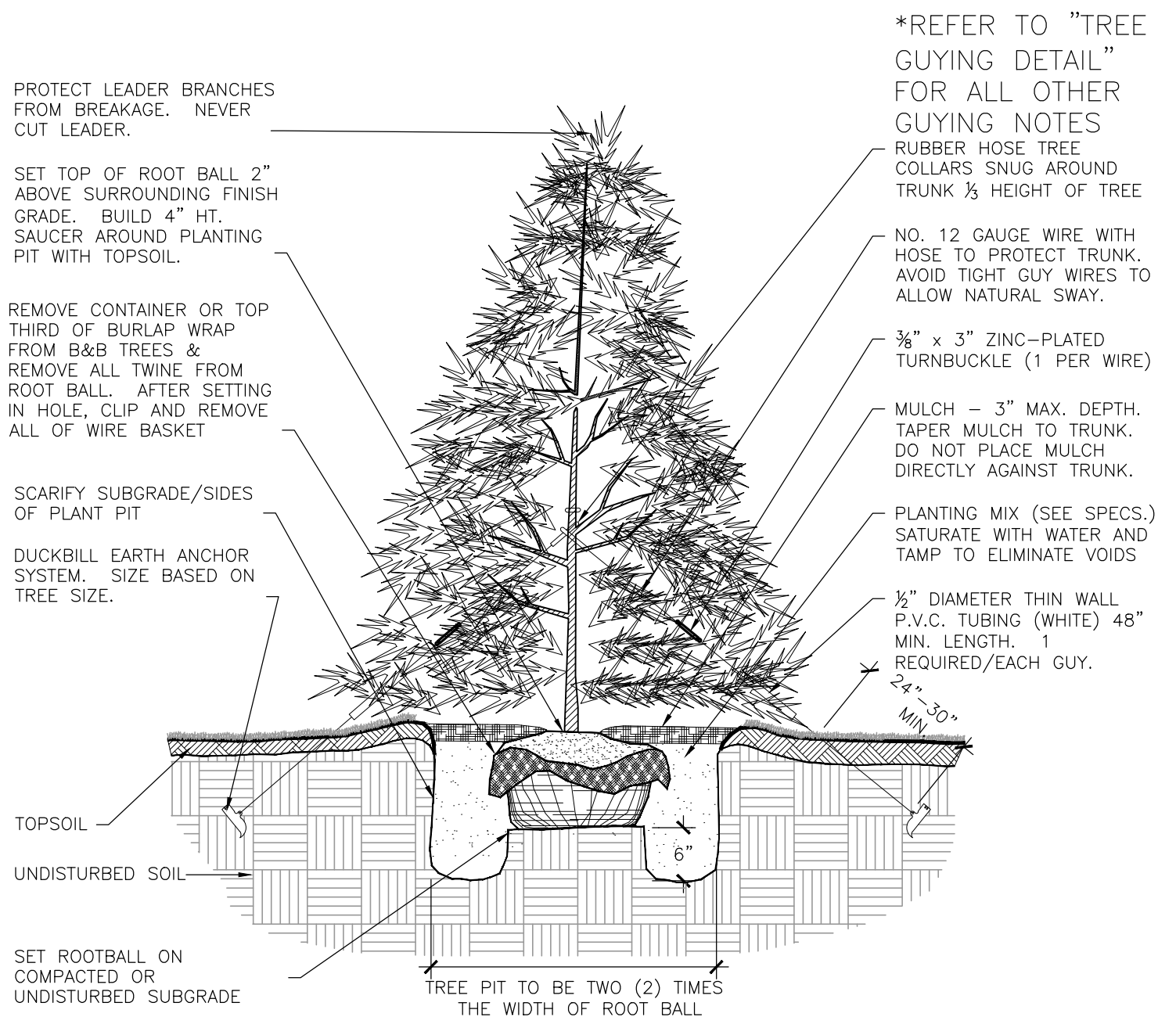
SHEET NO.  
 L.10



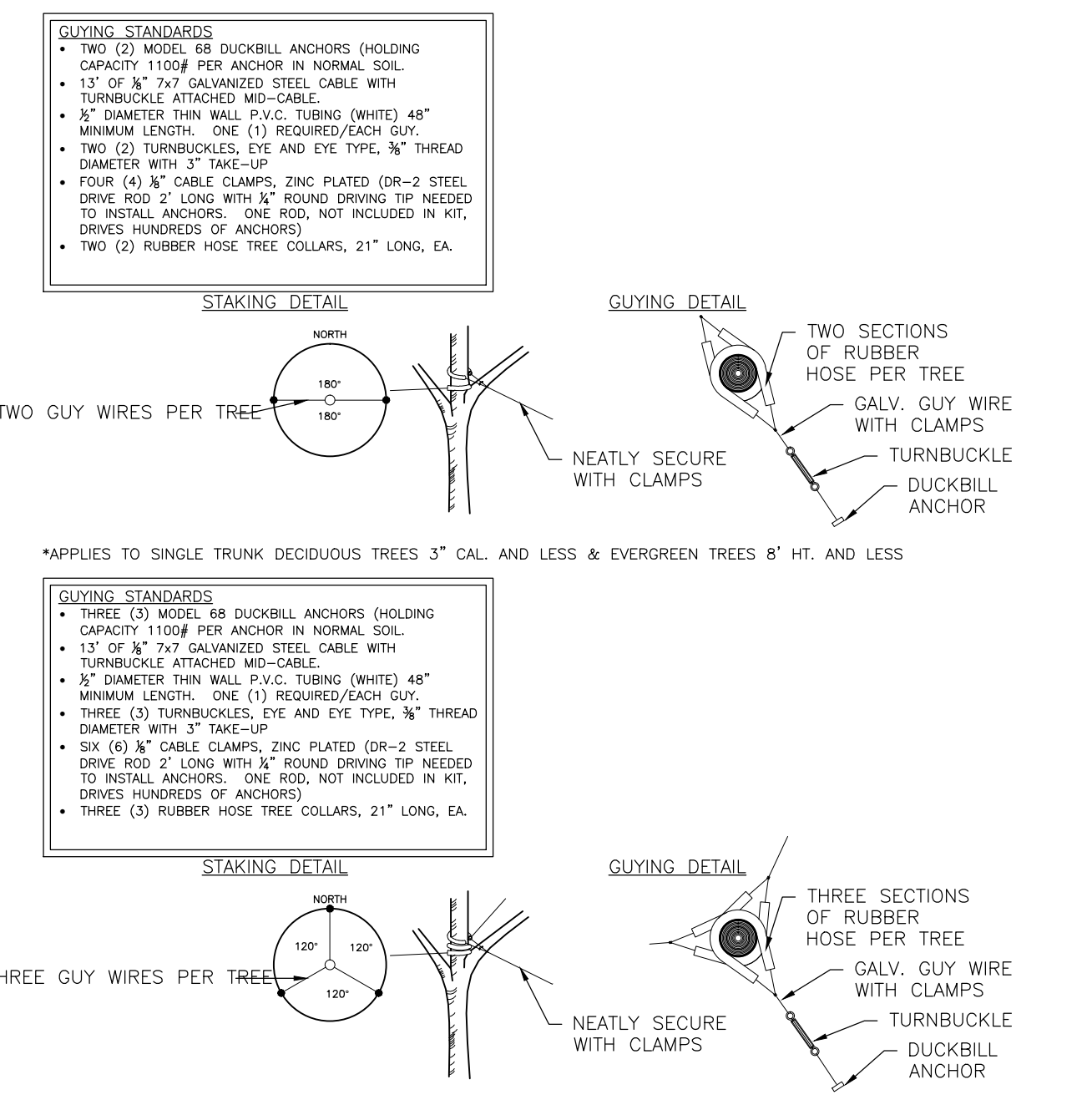
**1 TYP. DECIDUOUS TREE PLANTING DETAIL**  
SCALE: NTS



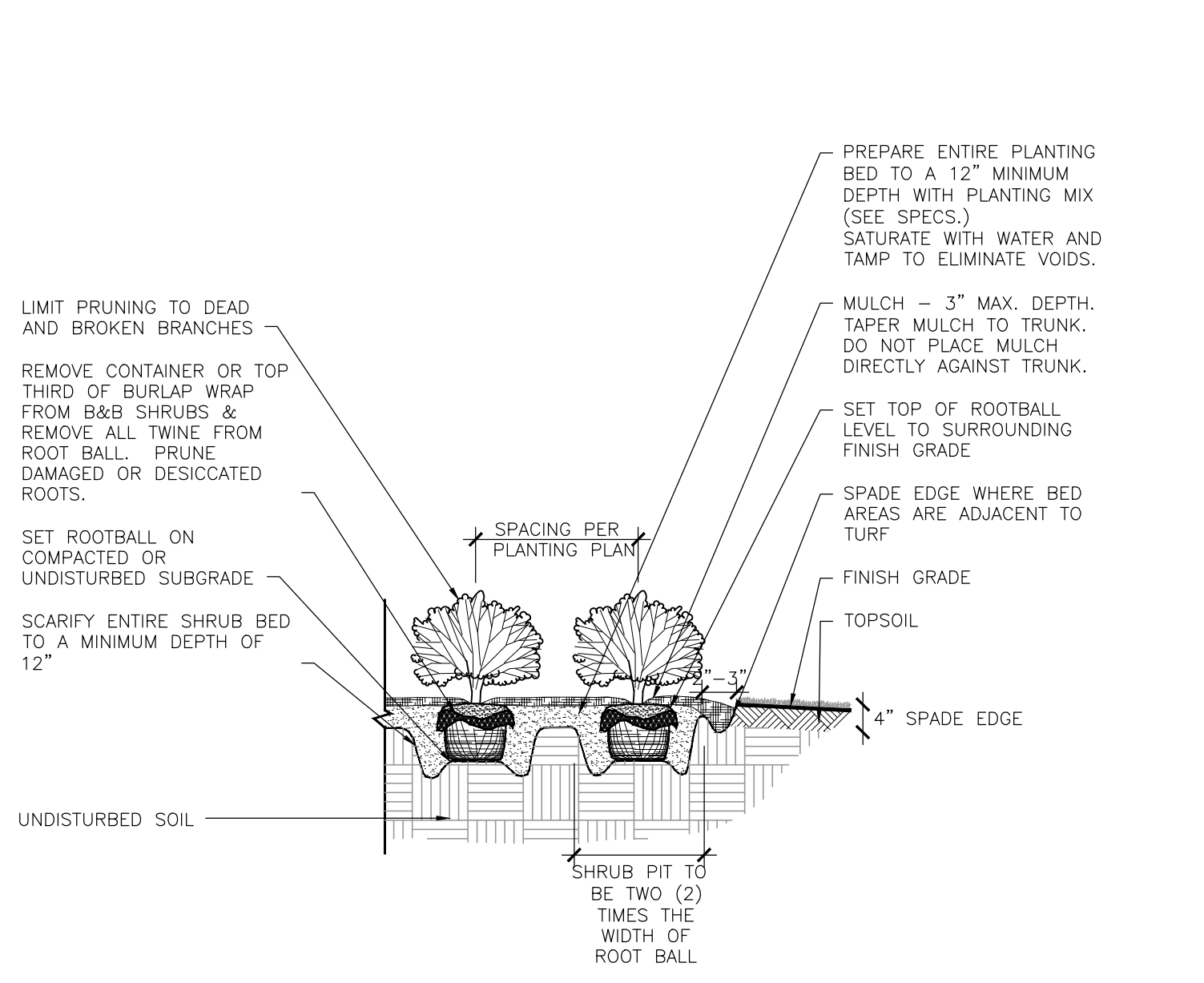
**2 TYP. ORNAMENTAL TREE PLANTING DETAIL**  
SCALE: NTS



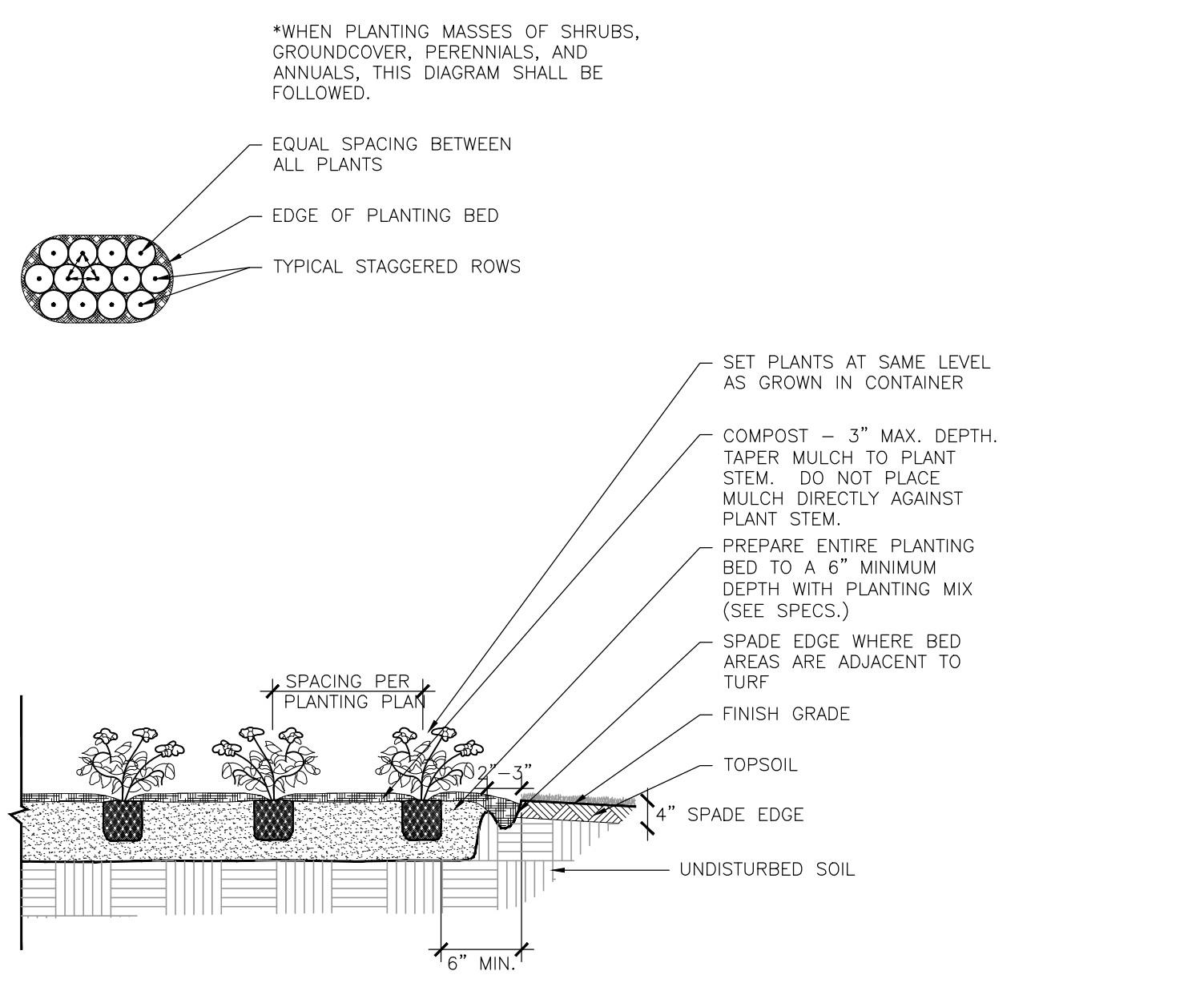
**3 TYP. EVERGREEN TREE PLANTING DETAIL**  
SCALE: NTS



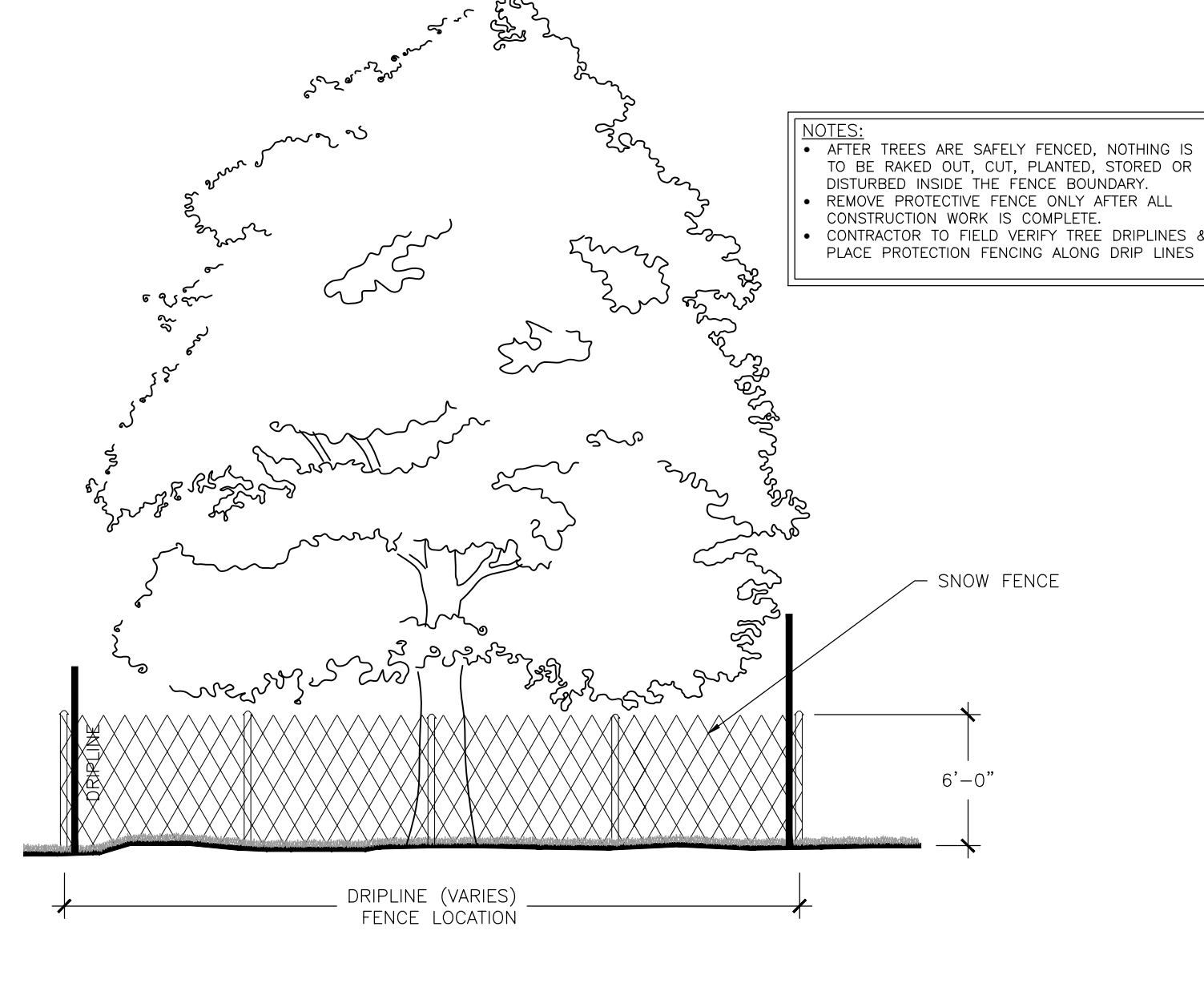
**4 TYP. GUYING DETAIL**  
SCALE: NTS



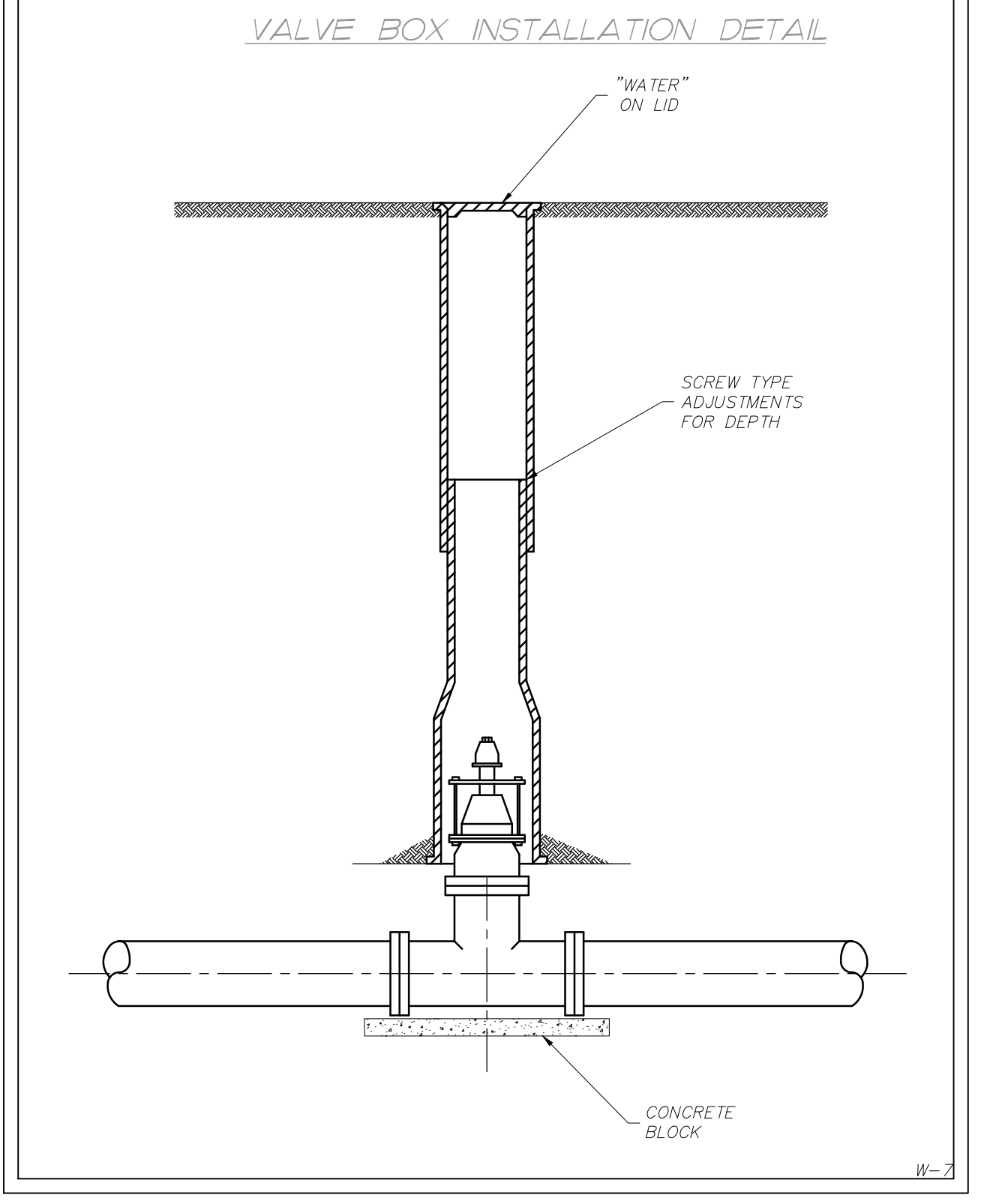
**5 TYP. SHRUB PLANTING DETAIL**  
SCALE: NTS



**6 TYP. PERENNIAL PLANTING DETAIL**  
SCALE: NTS



**7 TYP. TREE PROTECTION FENCE DETAIL**  
SCALE: NTS



**8 B-BOX INSTALLATION DETAIL**  
SCALE: NTS

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DRAWN BY: MAR	JOB DATE: 2014	BAR IS ONE INCH ON OFFICIAL DRAWINGS.
APPROVED: DLR	JOB NUMBER: 86120425	0
CAD DATE: 6/13/2016 10:27:08 AM		IF NOT ONE INCH, ADJUST SCALE ACCORDINGLY.
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NO.	DATE	BY	REVISION DESCRIPTION

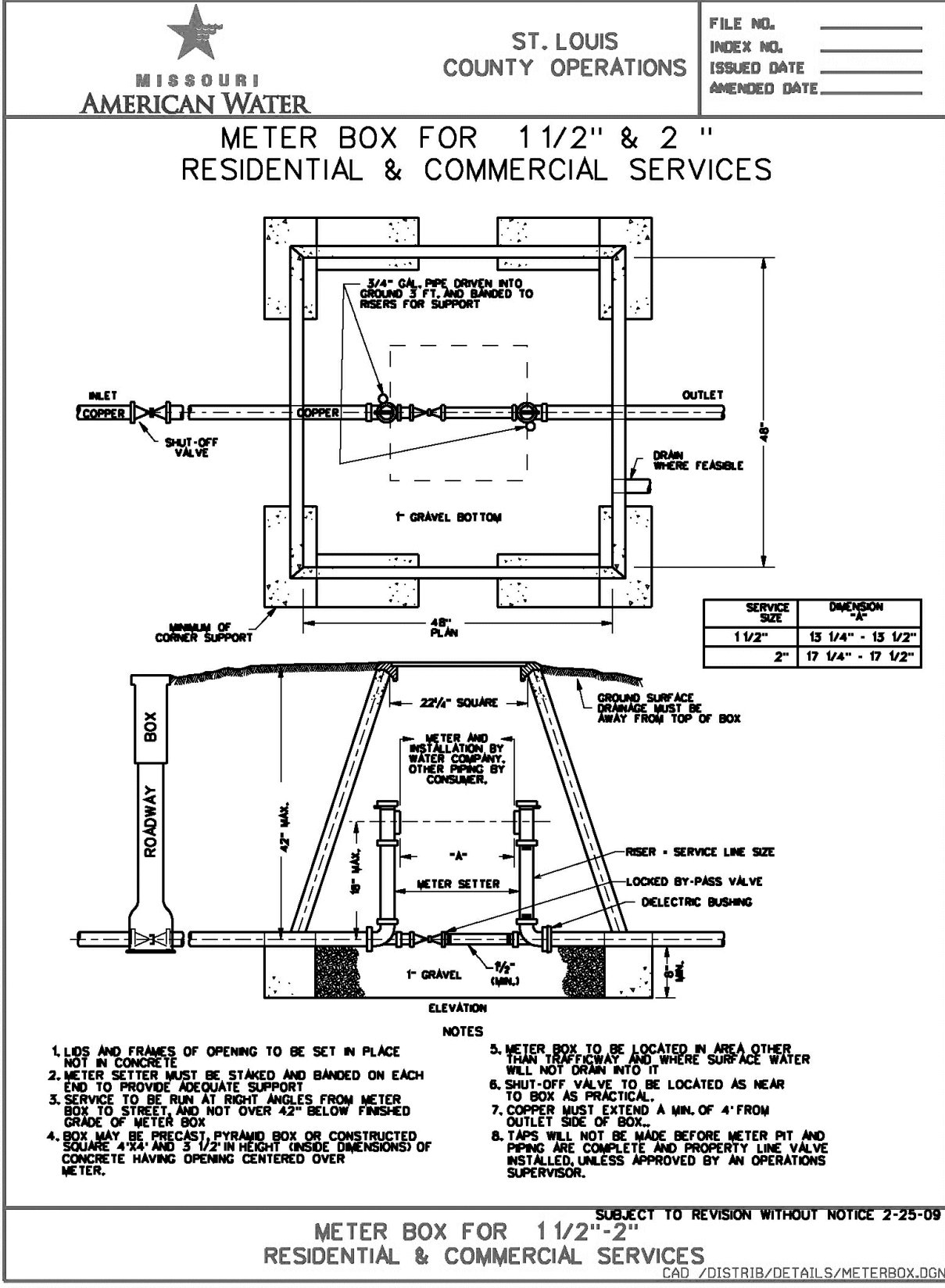
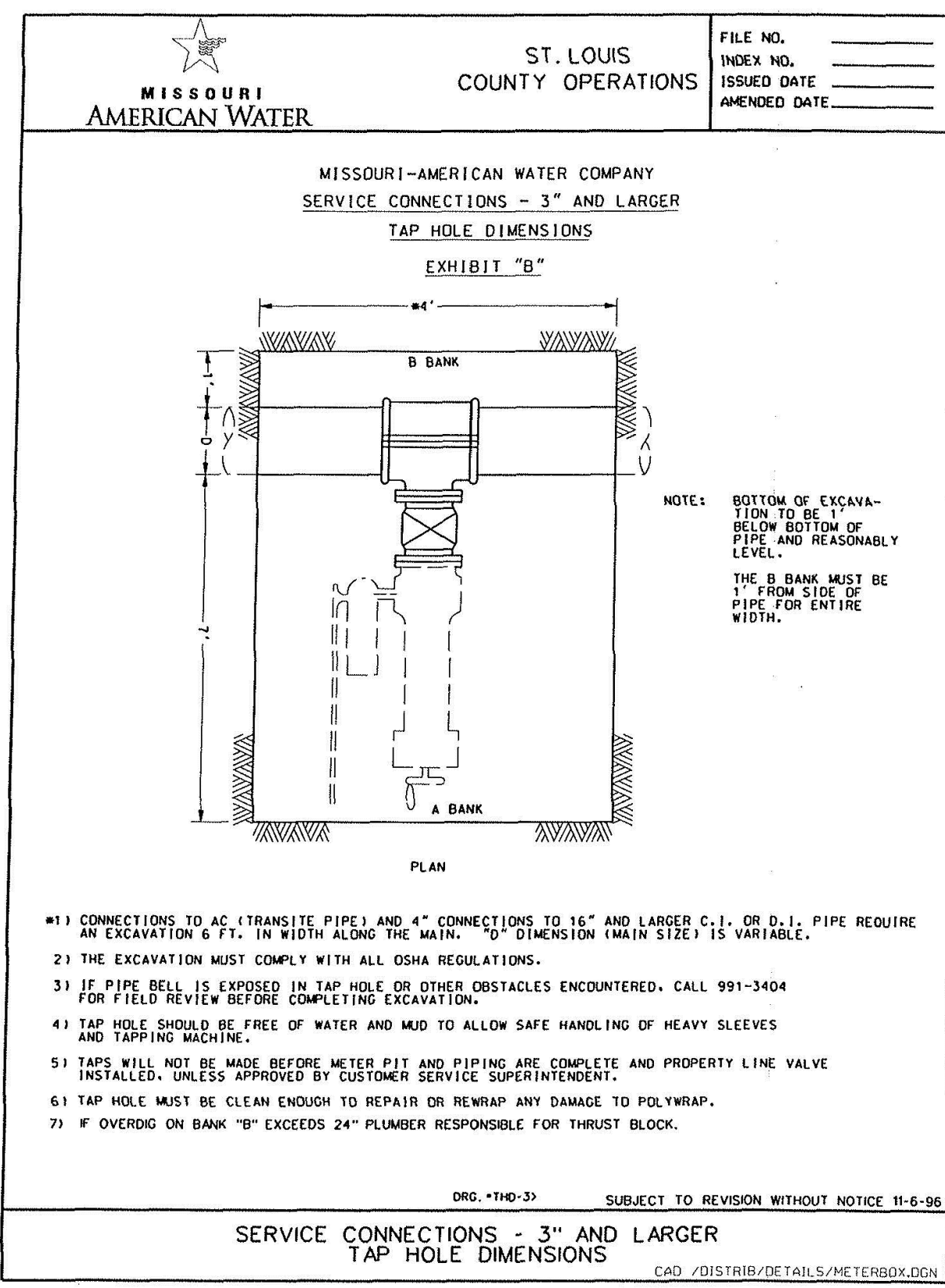
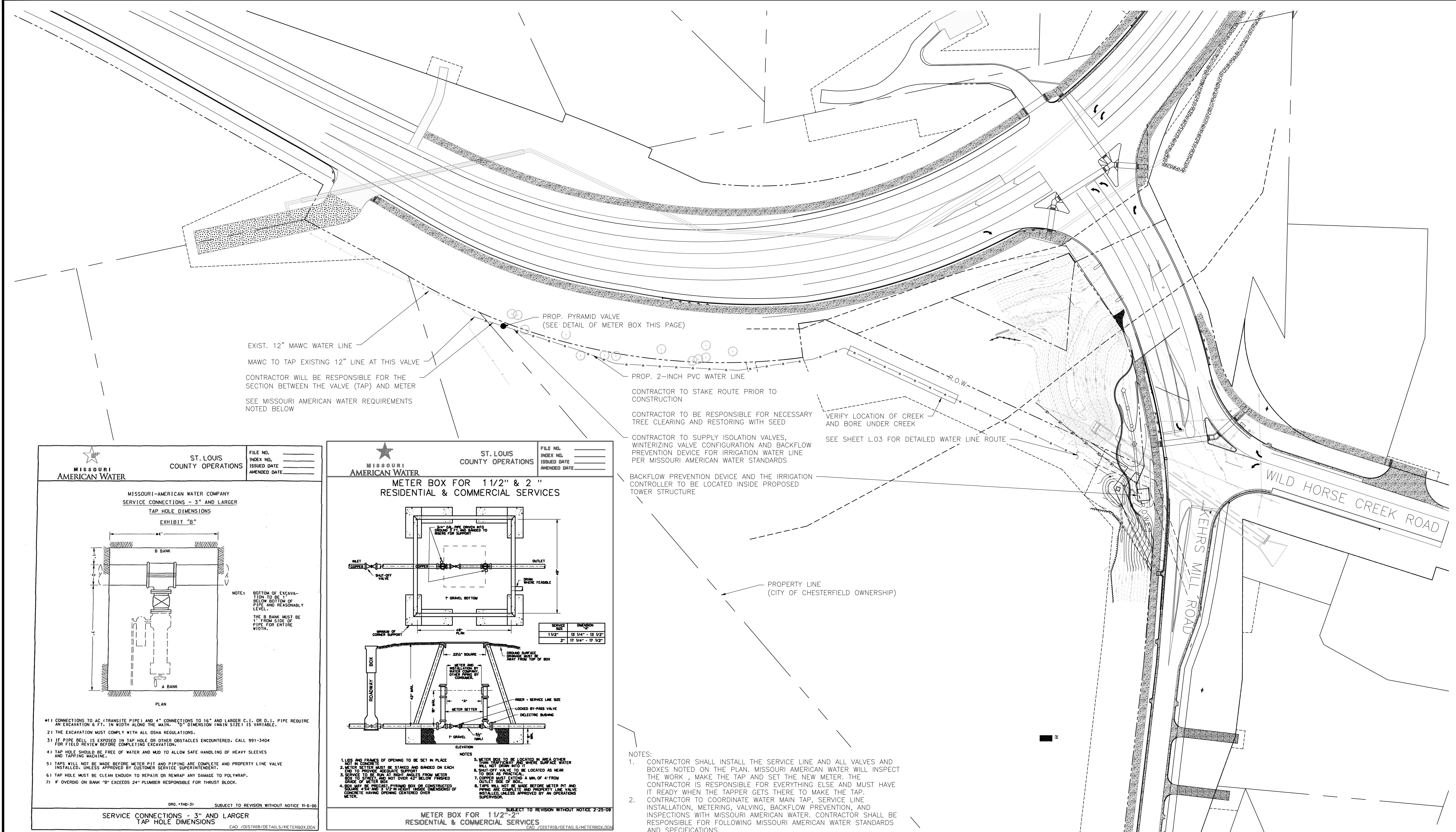


KEHRS MILL ROAD ENTRY  
CITY OF CHESTERFIELD  
CHESTERFIELD, MISSOURI

LANDSCAPE  
LANDSCAPE DETAILS

SHEET NO.  
L.11

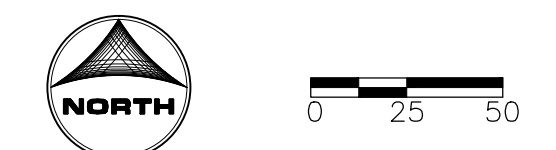
P-30345-00



2 SERVICE CONNECTIONS DETAIL  
SCALE: NTS

3 METER BOX DETAIL  
SCALE: NTS

1 PLAN  
SCALE: 1" = 50'-0"



P-30345-00

DRAWN BY: MAR JOB DATE: 2014  
APPROVED: DLR JOB NUMBER: 86120425  
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BAR IS ONE INCH ON OFFICIAL DRAWINGS.  
0" = 1" IF NOT ONE INCH, ADJUST SCALE ACCORDINGLY.

NO.	DATE	BY	REVISION DESCRIPTION



KEHRS MILL ROAD ENTRY  
CITY OF CHESTERFIELD  
CHESTERFIELD, MISSOURI

LANDSCAPE  
WATER SERVICE EXHIBIT

SHEET NO.  
L.12