

1

GRAPHIC SCALE

30 0 15 30 60 90

1 INCH = 30'

PHASE 2 EROSION PREVENTION & SEDIMENT CONTROL PLAN

GENERAL SHEET NOTES:

1. SEE SHEET C001 FOR CIVIL NOTES AND LEGENDS

EROSION CONTROL LEGEND

- CONSTRUCTION LIMITS
- SILT FENCE: SEE DETAIL 3/C800
- CONSTRUCTION ENTRANCE: SEE DETAIL 1/C800
- INLET PROTECTION: SEE DETAIL 4/C800
- OUTFALL
- CONCRETE WASHOUT: SEE DETAIL 5/C800
- PERMANENT STABILIZATION: SEE SEED MIXTURE TABLES BELOW
- FIBER ROLL: SEE DETAIL 2/C800
- SEDIMENT BASIN: SEE DETAIL 8/C800

PERMANENT SEED MIXTURES (TDOT)

GROUPS	SEEDING DATES	GRASS SEEDS	PERCENT
A	FEBRUARY 1 TO JULY 1	KENTUCKY 31 FESCUE	80%
		KOREAN LESPEDEZA	15%
		ENGLISH RYE	5%
B	JUNE 1 TO AUGUST 15	KENTUCKY 31 FESCUE	55%
		ENGLISH RYE	20%
		KOREAN LESPEDEZA	15%
		GERMAN MILLET	10%
B1	APRIL 15 TO AUGUST 15	BERMUDAGRASS (HULLED)	70%
		ANNUAL LESPEDEZA	30%
		KENTUCKY 31 FESCUE	70%
C	AUGUST 1 TO DECEMBER 1	ENGLISH RYE	20%
		WHITE CLOVER	10%
		KENTUCKY 31 FESCUE	70%
C1	FEBRUARY 1 TO DECEMBER 1	CROWN VETCH	25%
		ENGLISH RYE	5%
		KENTUCKY 31 FESCUE	70%

MBI

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PROJECT INFORMATION

PROJECT:

BEEHIVE 3D

PROJECT ADDRESS:

1001 KEMP FAIN LANE
KNOXVILLE, TN 37902
210390

PROJECT NO.:

NOTES

PLANNING COMMISSION FILE #: 3-J-22-UR
TTODA CASE #: 3-8-22-T0B

ACTIVE DESIGN PHASE

- FOR REVIEW ONLY
- FOR PERMITTING ONLY
- SCHEMATIC DESIGN
- DESIGN DEVELOPMENT
- CONSTRUCTION BIDDING
- CONSTRUCTION DOCUMENTS
- AS-BUILT RECORD SET

REVISION INFORMATION

NOL DATE DESCRIPTION

KEY PLAN

SHEET INFORMATION

SHEET ISSUED: 02/22/2022
DESIGNED BY: G.A.D.
DRAWN BY: G.A.D.
REVIEWED BY: C.B.T.
SHEET TITLE:

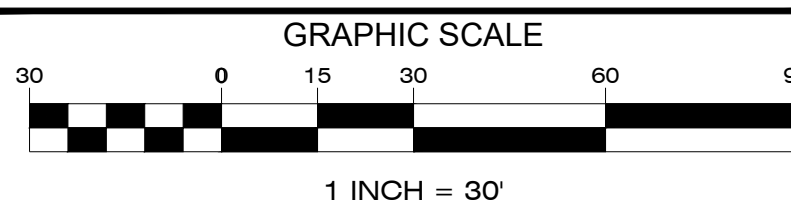
PHASE 2 EROSION
PREVENTION
& SEDIMENT
CONTROL PLAN

SHEET NO.:

C101



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1

C102

1

C200

GRAPHIC SCALE

20 0 10 20 40 60

1 INCH = 20'

SITE LAYOUT PLAN

GENERAL SHEET NOTES:

- SEE SHEET C001 FOR CIVIL NOTES AND LEGENDS
- FOR TYPICAL PARKING SPACE LAYOUT, SEE 1/C802
- ALL RADII NOT LABELED ARE TO BE R3.00'

AREAS & CALCULATIONS

DISTURBED AREA

TOTAL SITE AREA		DISTURBED AREA	
12.15	Acres	6.19	Acres
527,947	sqft	269,636	sqft

IMPERVIOUS AREA

EXISTING		PROPOSED		TOTAL INCREASE	
0.00	Acres	2.81	Acres	2.81	Acres
0.00	sqft	122,404	sqft	122,404	sqft

IMPERVIOUS AREA RATIO (IAR)

GROSS LOT AREA: 527,947

GROSS IMPERVIOUS AREA: 122,404

IAR = 23.16 % (70% ALLOWED)

GROUND AREA COVERAGE (GAC)

GROSS LOT AREA: 527,947

BUILDING FOOTPRINT AREA: 49,716

GAC = 9.42 % (25% ALLOWED)

FLOOR AREA RATIO (FAR)

GROSS LOT AREA: 527,947

GROSS FLOOR AREA: 46,546

FAR = 9.20 % (35% ALLOWED)

PARKING CALCULATION (PER TTCDA REQUIREMENTS)

MIN:

1 SPACE PER 1000 SF OF GROSS FLOOR AREA

(46300/1000)*1 = 46.3 ~ 47 REQUIRED SPACES

MAX:

1.5 SPACES PER 1000 SF OF GROSS FLOOR AREA

(46300/1000)*1.5 = 69.45 ~ 70 SPACES MAXIMUM

SETBACKS (PER TTCDA REQUIREMENTS)

REQUIRED		PROVIDED	
REGULAR	45	REGULAR	56
ACCESSIBLE	2	ACCESSIBLE	4
TOTAL	47	TOTAL	60

FRONT: 20 FEET/60 FEET*
SIDE: 20 FEET
REAR: 20 FEET
ABUTTING RESIDENTIAL ZONE: 100 FEET

*WITH PARKING IN FRONT YARD

SITE LEGEND

- PAINTED STOP BAR, COLOR TO BE WHITE, SEE DETAIL 4/C802
- PAINTED PEDESTRIAN CROSSWALK, COLOR TO BE WHITE, SEE DETAIL 8/C801

SITE KEYED NOTES

- HEAVY DUTY ASPHALT PAVING, SEE DETAIL 2/C801
- LIGHT DUTY ASPHALT PAVING, SEE DETAIL 2/C801
- CONCRETE PAVING, SEE DETAIL 2/C801
- CONCRETE SIDEWALK, SEE DETAIL 1/C801
- CONCRETE CURB, SEE DETAIL 3/C801
- WASTE ENCLOSURE, SEE ARCHITECTURAL SHEETS FOR DETAILS
- AREAS DISTURBED BY CONSTRUCTION OR PAVING TO BE SEEDED, SODDED OR LANDSCAPED
- ADA COMPLIANT PARKING SPACE, SEE DETAIL 2/C802
- ADA COMPLIANT SINGLE CONCRETE RAMP, SEE DETAIL 6/C801
- PAINTED 'NO PARKING' AREA, COLOR TO BE WHITE, SEE DETAIL 5/C802
- SITE LIGHTING, SEE ELECTRICAL PLANS FOR DETAILS
- 6" BOLLARD, SEE DETAIL 5/C801
- POLE MOUNTED 'STOP' SIGN, SEE DETAIL 7/C802
- PROVIDE SMOOTH TRANSITION TO EXISTING SURFACE
- MONUMENT SIGN, SEE ARCHITECTURAL SHEETS FOR DETAILS
- CONCRETE PAD, SEE MECHANICAL AND ELECTRICAL SHEETS FOR DETAILS
- STORM DRAINAGE STRUCTURE, SEE SHEET C500 FOR DETAILS
- SANITARY SEWER STRUCTURE, SEE SHEET C600 FOR DETAILS
- RETAINING WALL WITH RAILING, SEE DETAIL 9/C802

ACTIVE DESIGN PHASE	FOR REVIEW ONLY
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<input type="checkbox"/>	CONSTRUCTION DOCUMENTS
<input type="checkbox"/>	AS-BUILT RECORD SET

REVISION INFORMATION

NO.	DATE	DESCRIPTION
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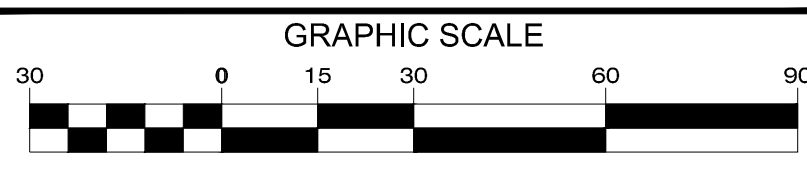
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UNUSUAL, OBSCURE, UNCOMMON, UNUSUALITIES

OR CONFLICTS WHICH ARE ALLOWED.

PROJECT INFORMATION

PROJECT:

BEEHIVE 3D

PROJECT ADDRESS:

1001 KEMP FAIN LANE

KNOXVILLE, TN 37930

210300

PROJECT NO.:

NOTES

PLANNING COMMISSION FILE #: 3-J-22-UR

TTCDA CASE #: 3-B-22-TOB

KEY PLAN

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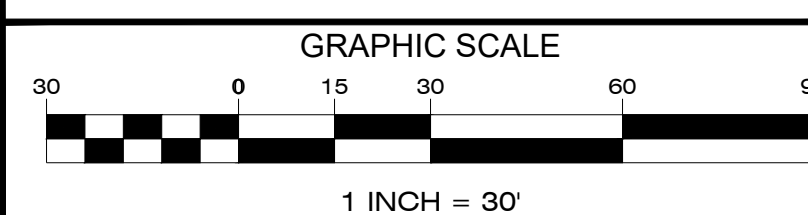
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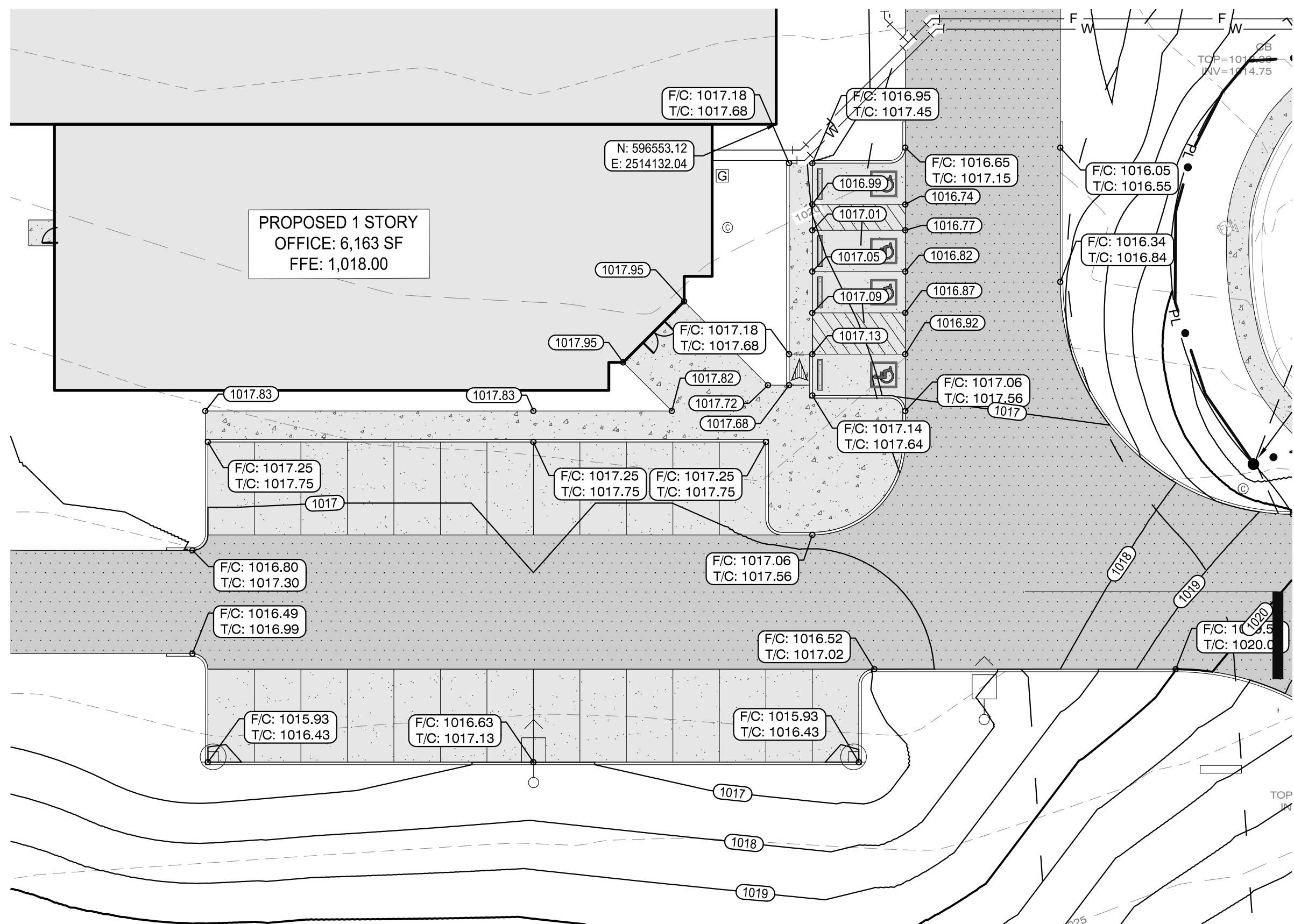
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ENLARGED SITE GRADING PLAN



SITE GRADING PLAN - DETAILED

GENERAL SHEET NOTES

1. SEE SHEET C001 FOR CIVIL NOTES AND LEGENDS

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PROJECT INFORMATION

PROJECT:

BEEHIVE 3D

PROJECT ADDRESS:

1001 KEMP FAIN LANE
KNOXVILLE, TN 37902
210390

PROJECT NO.:

NOTES

PLANNING COMMISSION FILE # 3-J-22-UR
TTODA CASE # 3-8-22-10B

ACTIVE DESIGN PHASE

FOR REVIEW ONLY
FOR PERMITTING ONLY
SCHEMATIC DESIGN
DESIGN DEVELOPMENT
CONSTRUCTION BIDDING
CONSTRUCTION DOCUMENTS
AS-BUILT RECORD SET

REVISION INFORMATION

NO. DATE DESCRIPTION

NO.	DATE	DESCRIPTION

KEY PLAN

SHEET INFORMATION

SHEET ISSUED: 02/22/2022
DESIGNED BY: G.A.D.
DRAWN BY: G.A.D.
REVIEWED BY: C.B.T.
SHEET TITLE:

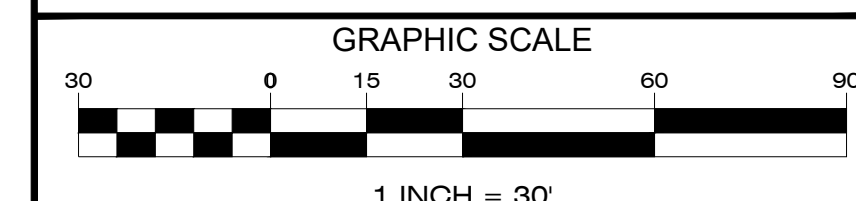
SITE GRADING PLAN
DETAILED

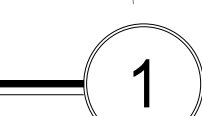
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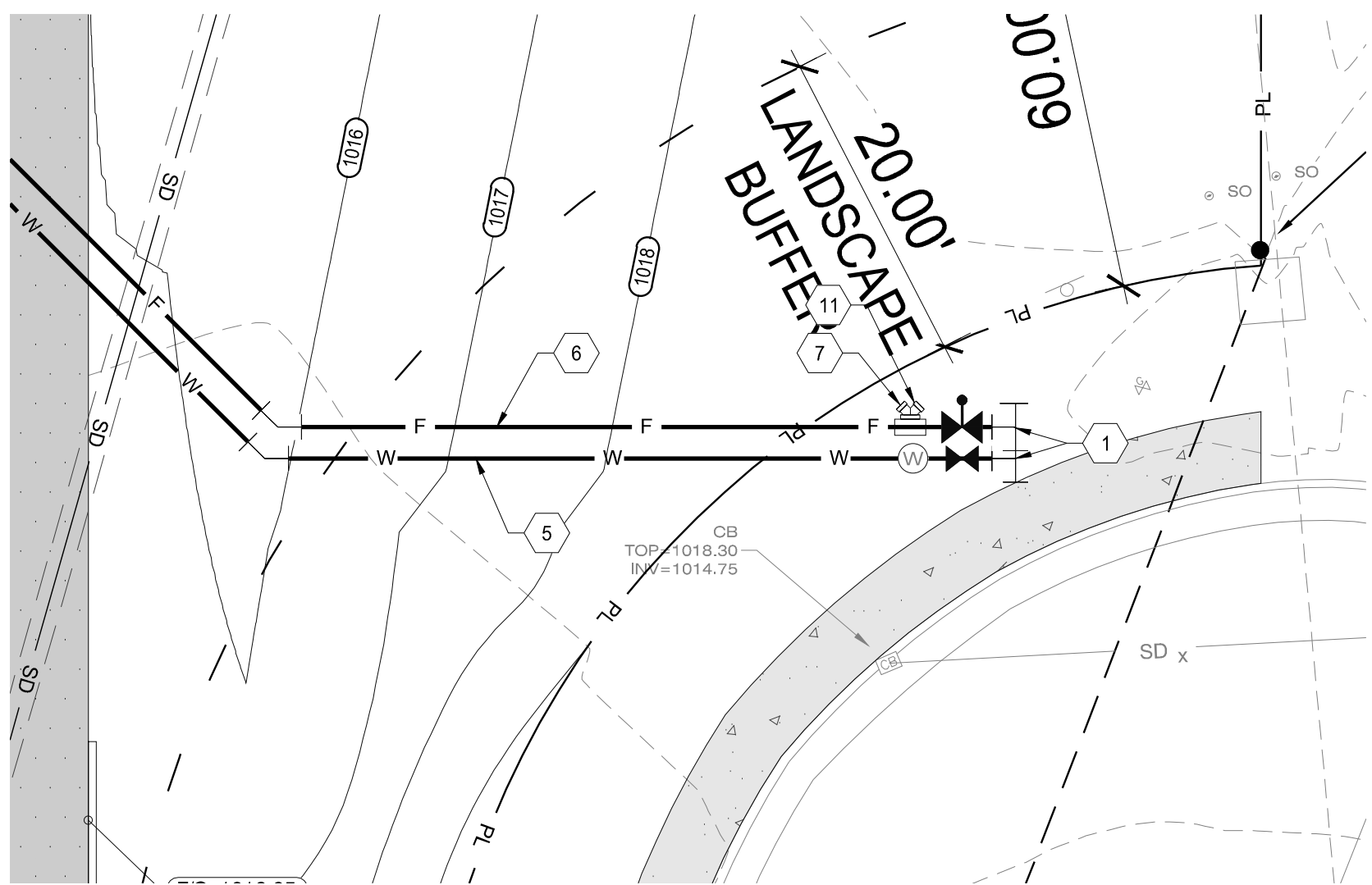
C401



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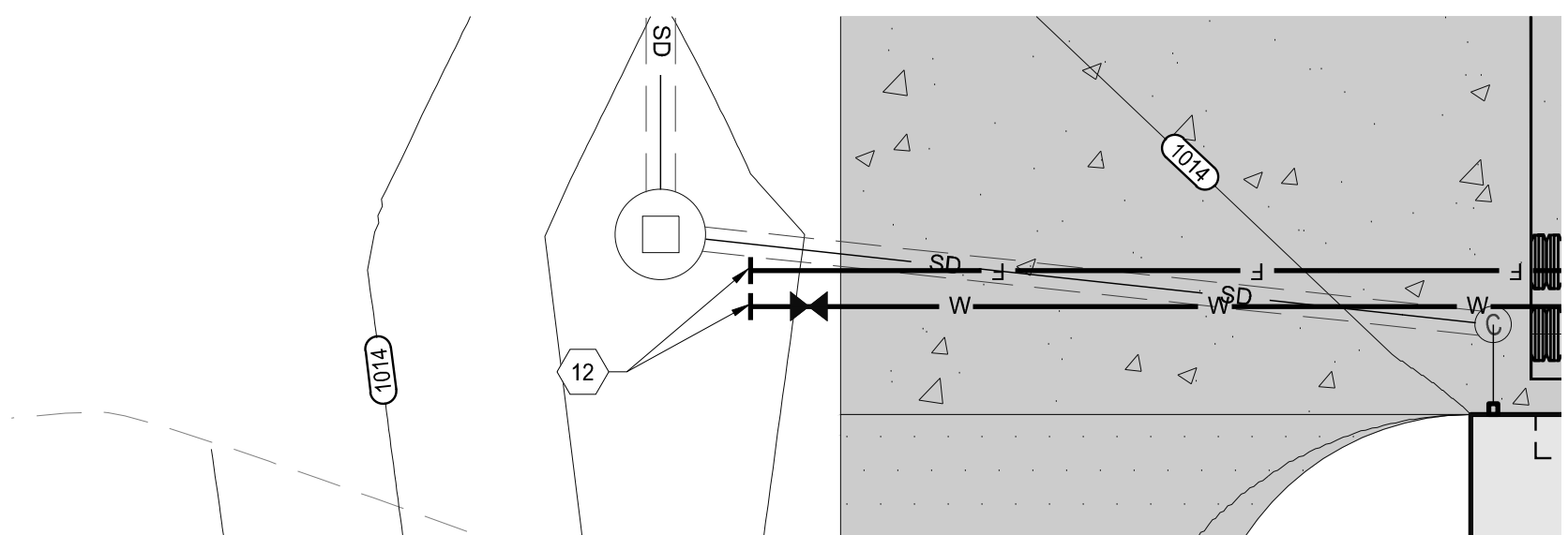




ENLARGED SITE UTILITY PLAN

SCALE: 1" = 10'-0"

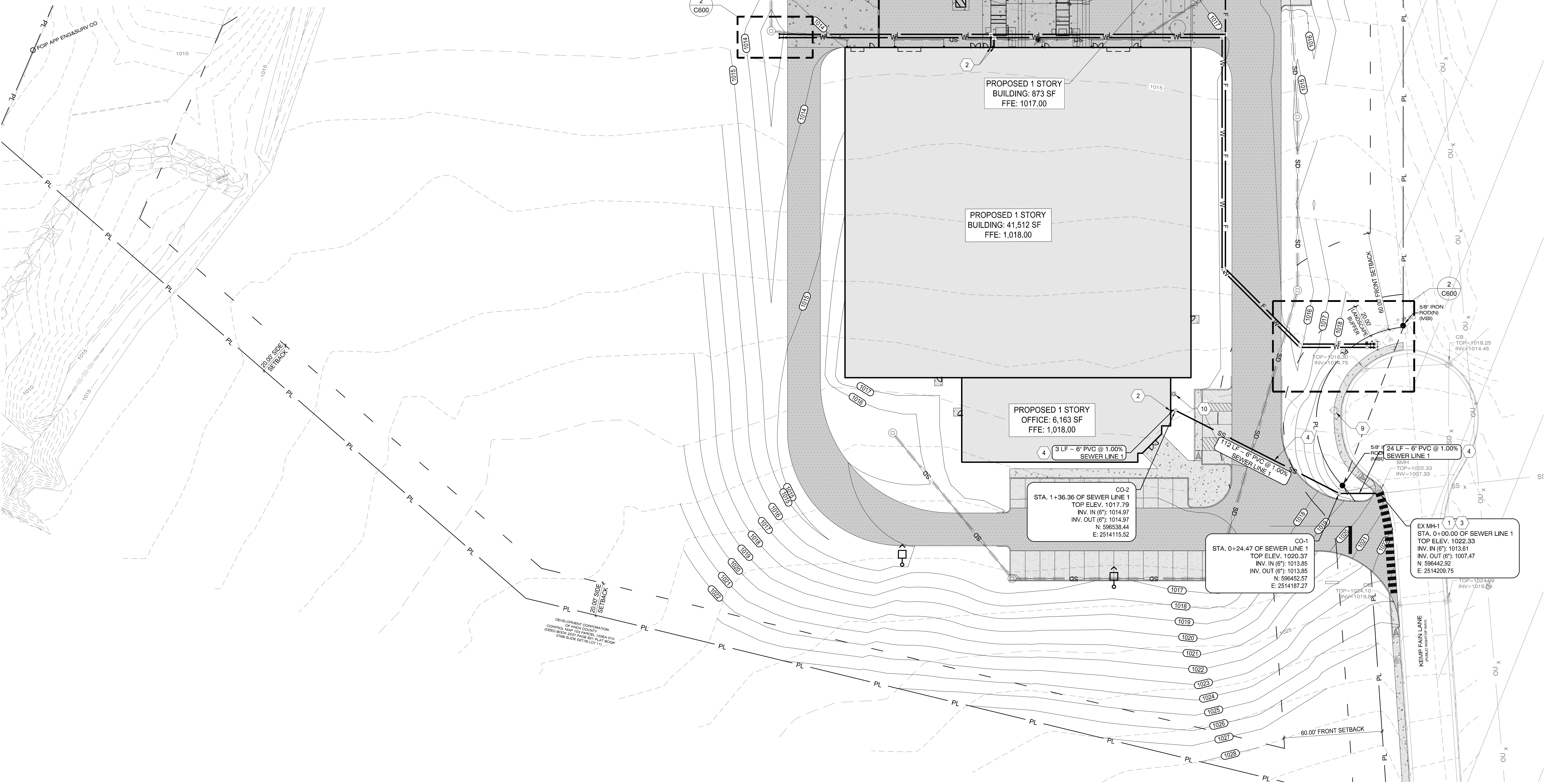
2



ENLARGED SITE UTILITY PLAN

SCALE: 1" = 10'-0"

3



SITE UTILITY PLAN

SCALE: 1" = 30'-0"

1

GENERAL SHEET NOTES

- SEE SHEET C001 FOR CIVIL NOTES AND LEGENDS
- COORDINATE ALL UTILITY CROSSINGS. SEE DETAIL 4/C804
- FIELD LOCATE ALL EXISTING UTILITIES PRIOR TO START OF CONSTRUCTION. DETERMINE LOCATED, SIZE, MATERIAL & INVERTS. REPORT ANY DISCREPANCIES TO OWNER & ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION & INSTALLATION.

UTILITY CONTACTS

WATER WEST KNOX UTILITY DISTRICT 2328 LOVELL ROAD KNOXVILLE, TN 37932 (865) 890-2521	SEWER WEST KNOX UTILITY DISTRICT 2328 LOVELL ROAD KNOXVILLE, TN 37932 (865) 890-2521
GAS KNOXVILLE UTILITY BOARD 4428 WESTERN AVE. KNOXVILLE, TN 37921 (865) 524-2911	ELECTRIC LENOIR CITY UTILITY BOARD 7688 CHERWOOD PARK BLVD LENOIR CITY, TN 37771 (844) 887-5282

UTILITY LEGEND

- PIPE FITTINGS: SEE DETAIL 3/C804
- PIPE TEE: SEE DETAIL 3/C804
- GATE VALVE: SEE DETAIL 7/C804
- POST INDICATOR VALVE: SEE DETAIL 8/C804
- 2 1/2" WATER METER BY LOCAL UTILITY
- CO-CLEANOUT: SEE DETAIL 6/C803

UTILITY KEYED NOTES

- FIELD LOCATE AND CONNECT TO EXISTING PER LOCAL UTILITY REQUIREMENTS.
- FOR CONTINUATION SEE PLUMBING PLAN
- CONNECTION TO EXISTING MANHOLE: 5/C804
- 6" ASTM D3034 SDR35 PVC BUILDING SANITARY SEWER SERVICE LINE @ 1% MIN. SLOPE: SEE DETAIL 2/C804
- 2 1/2" POTABLE WATER (PVC CLASS 200): SEE DETAIL 2/C804
- 8" C900 PVC FIRE PROTECTION SERVICE LINE: SEE DETAIL 2/C804
- DOUBLE CHECK BACKFLOW PREVENTOR IN HOT BOX: SEE DETAIL 1/C804
- FIRE HYDRANT ASSEMBLY: SEE DETAIL 6/C804
- EXISTING FIRE HYDRANT
- GAS METER: SEE SHEET C001 FOR SPECIFICATIONS
- FIRE DEPARTMENT CONNECTION: SEE FIRE PROTECTION PLANS FOR DETAILS
- STUB AND PLUG FOR FUTURE EXPANSION

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PROJECT INFORMATION
PROJECT:

BEEHIVE 3D

PROJECT ADDRESS:

1001 KEMP FAIN LANE
KNOXVILLE, TN 37930
210390

PROJECT NO.:

NOTES

PLANNING COMMISSION FILE #: 3-J-22-UR
TTODA CASE #: 3-B-22-10B

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- AS-BUILT RECORD SET

REVISION INFORMATION

NO. DATE DESCRIPTION

KEY PLAN

SHEET INFORMATION

SHEET ISSUED: 02/20/2022
DESIGNED BY: G.A.D.
DRAWN BY: G.A.D.
REVIEWED BY: C.B.T.
SHEET TITLE:

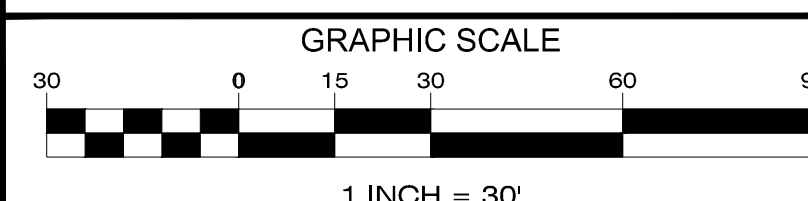
SITE UTILITY PLAN

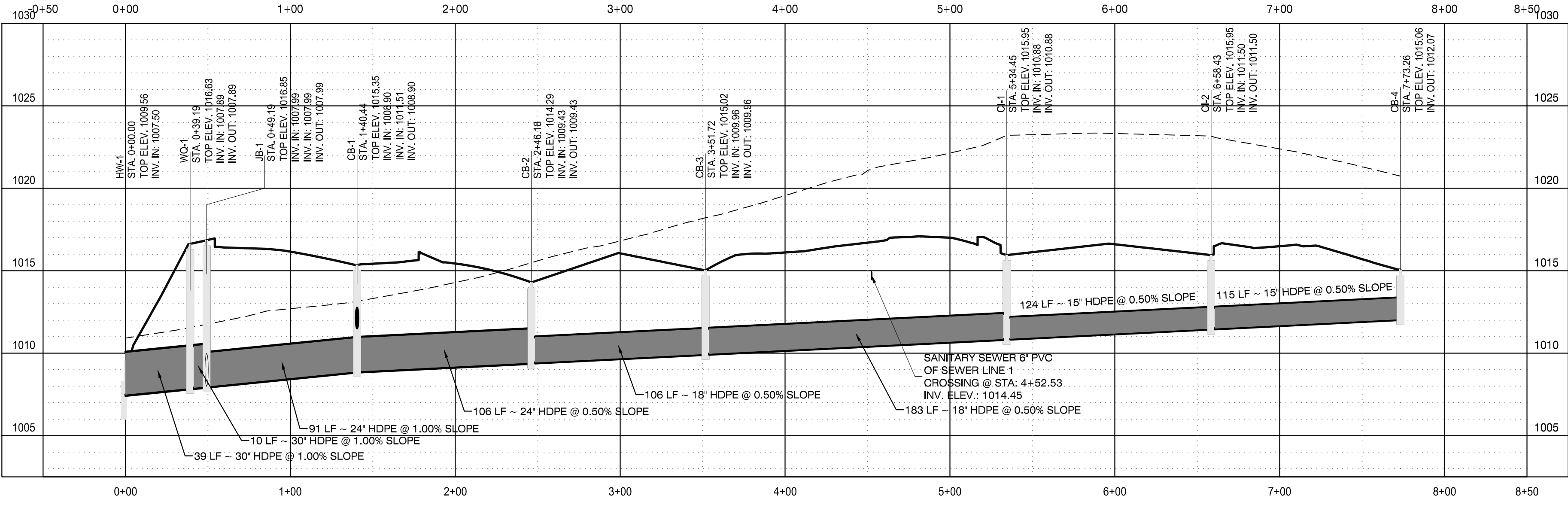
SHEET NO.:

C600



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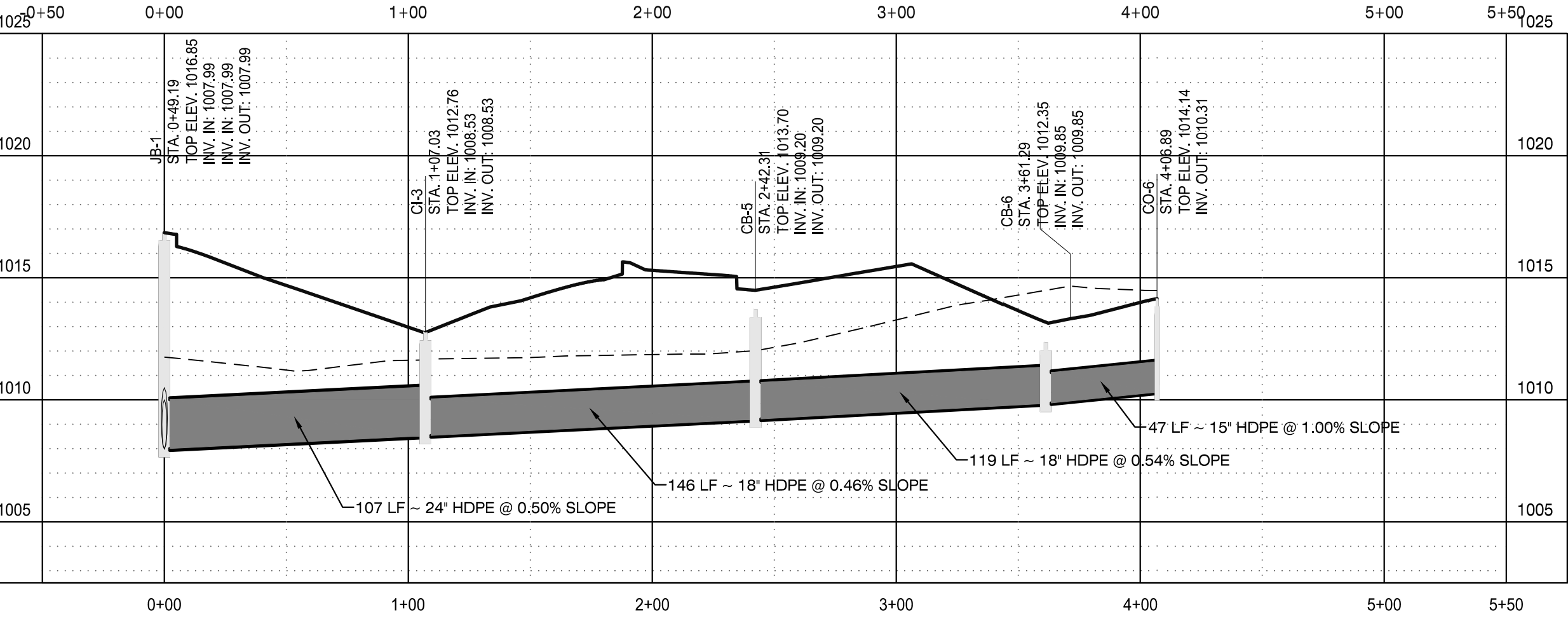




STORM LINE 1

SCALE: H: 1" = 50'-0" V: 1" = 5'-0"

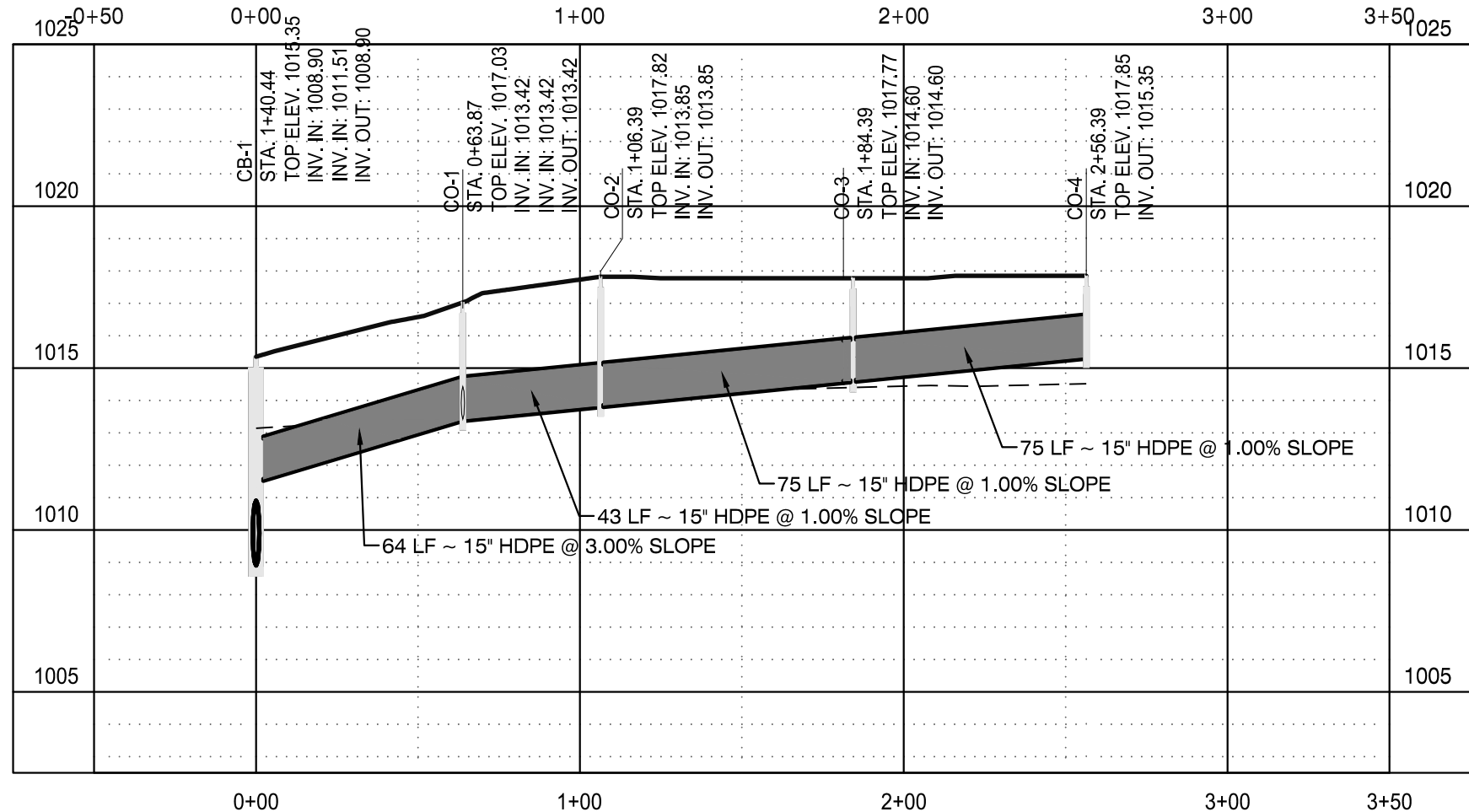
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STORM LINE 2

SCALE: H: 1" = 50'-0" V: 1" = 5'-0"

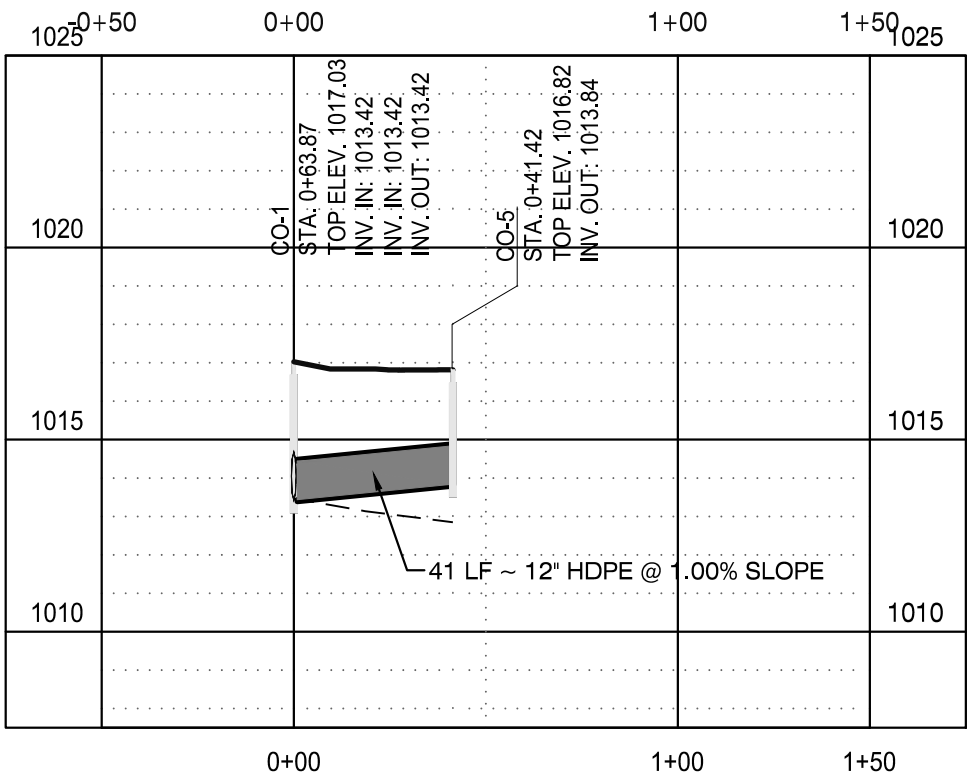
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STORM LINE 3

SCALE: H: 1" = 50'-0" V: 1" = 5'-0"

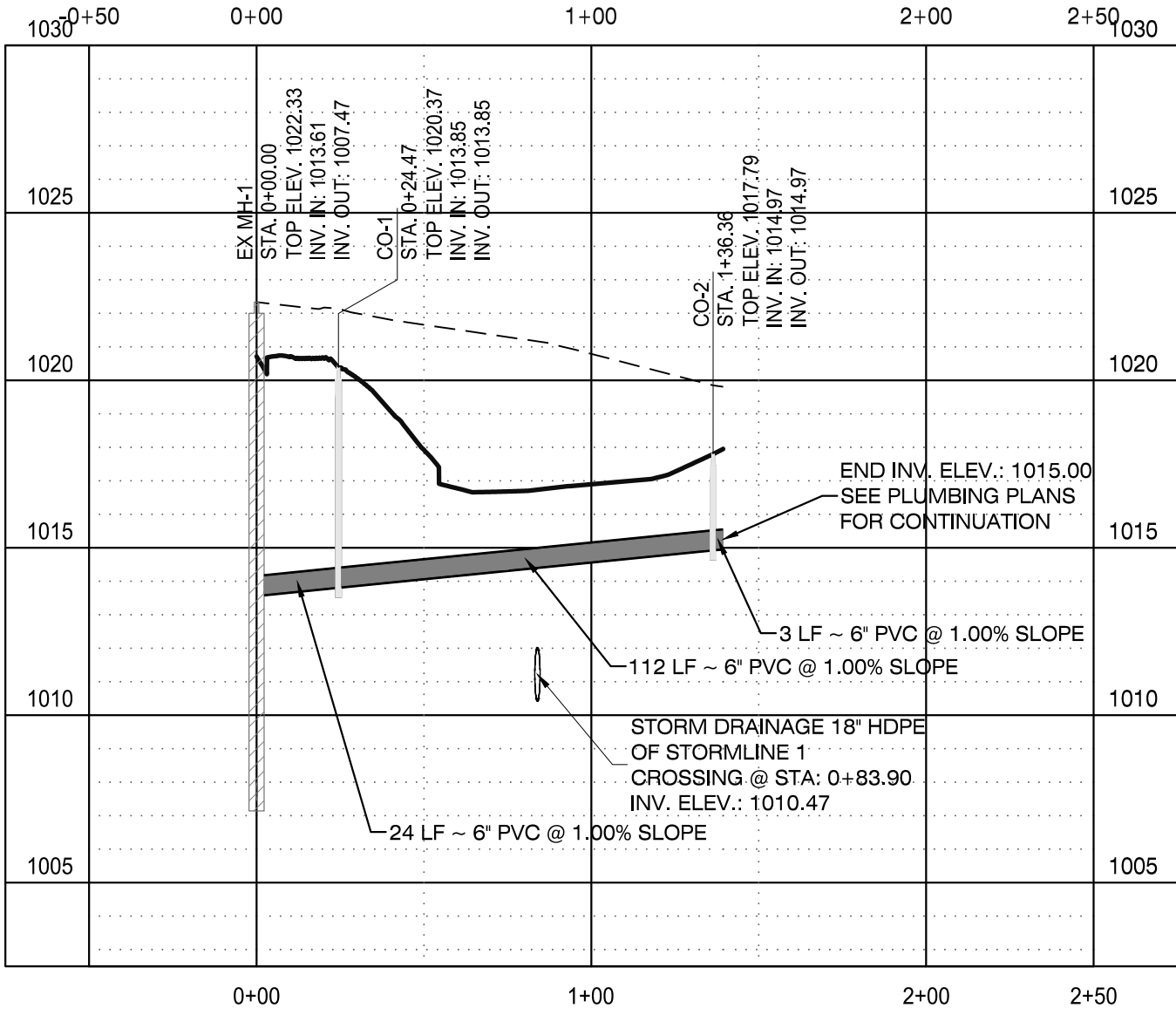
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STORM LINE 4

SCALE: H: 1" = 50'-0" V: 1" = 5'-0"

4



SEWER LINE 1

SCALE: H: 1" = 50'-0" V: 1" = 5'-0"

5

GENERAL SHEET NOTES

1. SEE SHEET C001 FOR CIVIL NOTES AND LEGENDS.

PROFILE LEGEND

EXISTING GRADE
PROPOSED GRADE

MBI

ENGINEER:

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BEEHIVE 3D

PROJECT ADDRESS:

1001 KEMP FAIN LANE
KNOXVILLE, TN 37930
210300

PROJECT NO.:

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TTODA CASE #: 3-B-22-TOB

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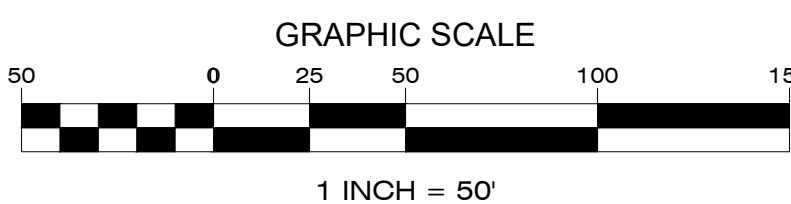
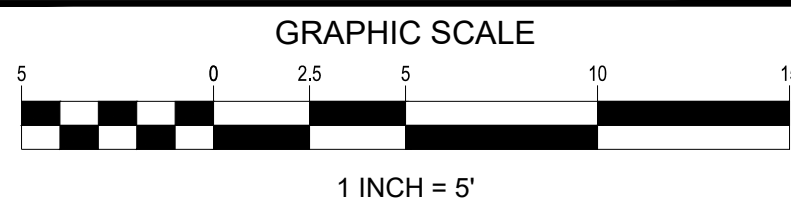
CIVIL PROFILES

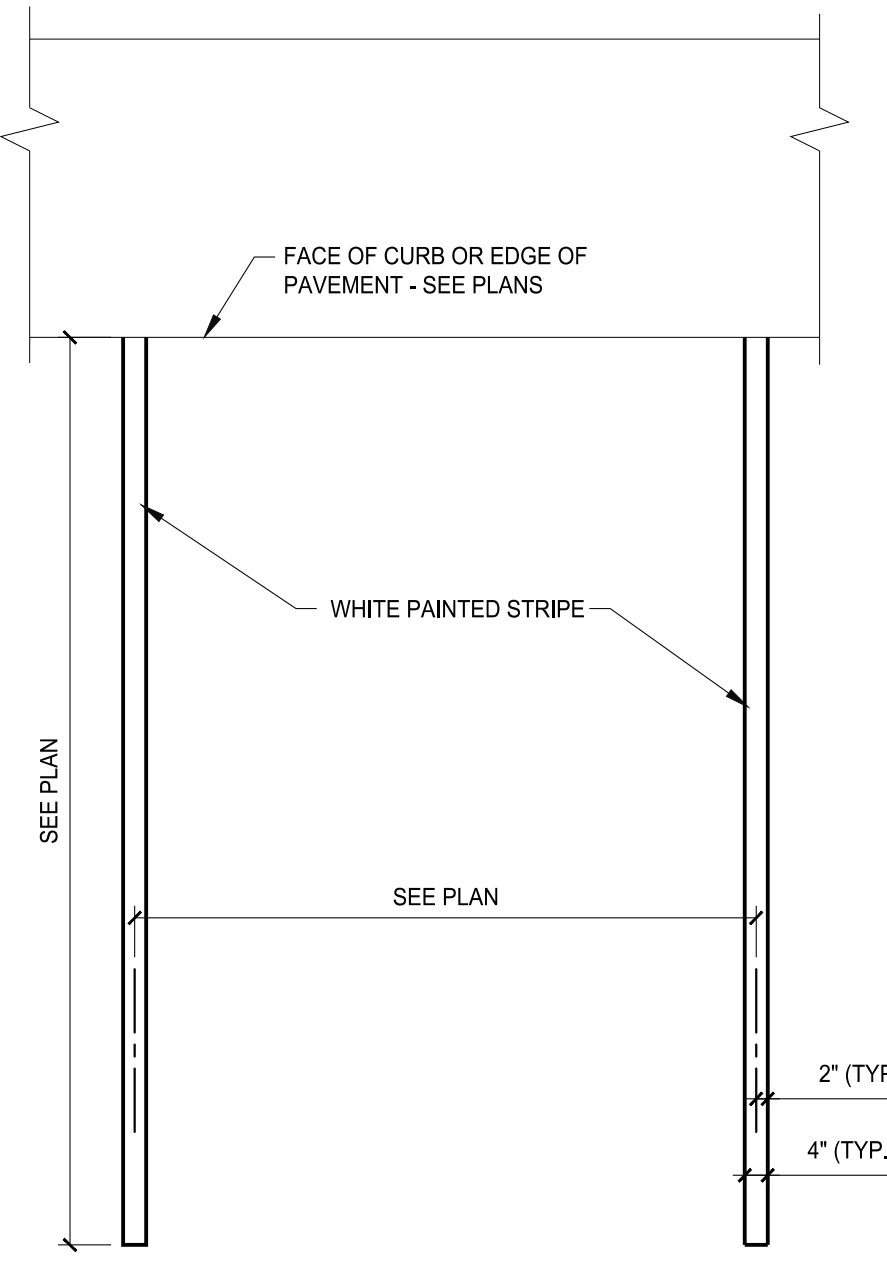
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C700

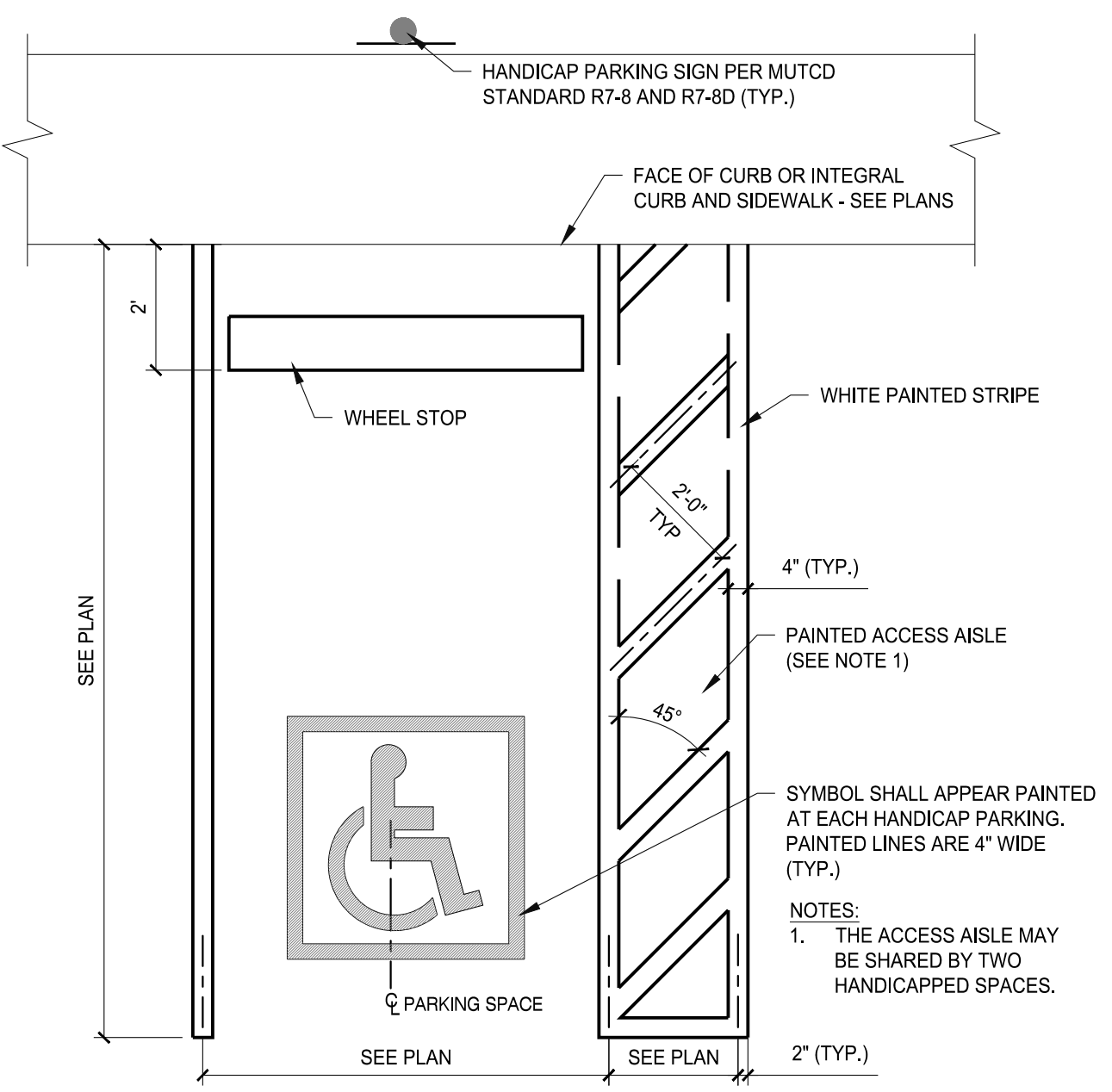


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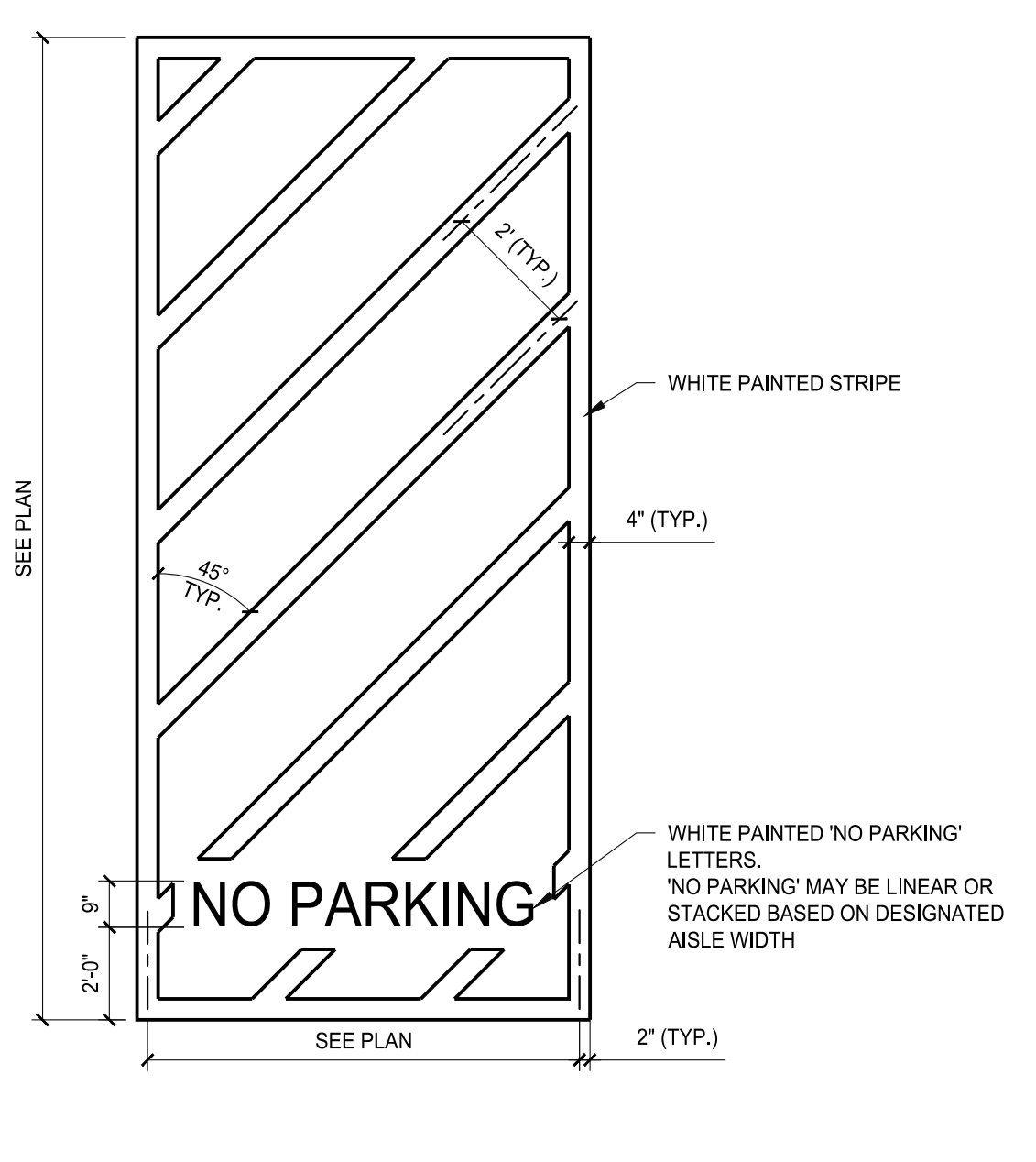




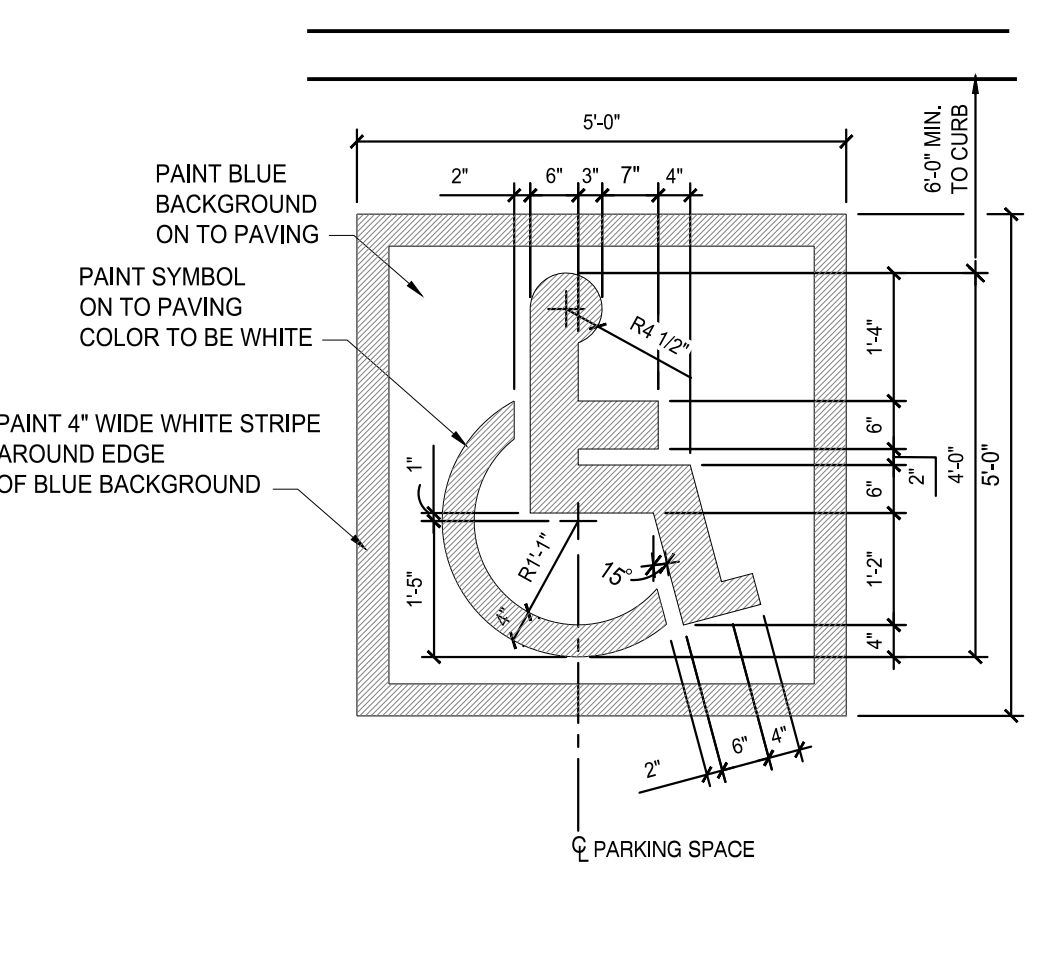
PARKING SPACE



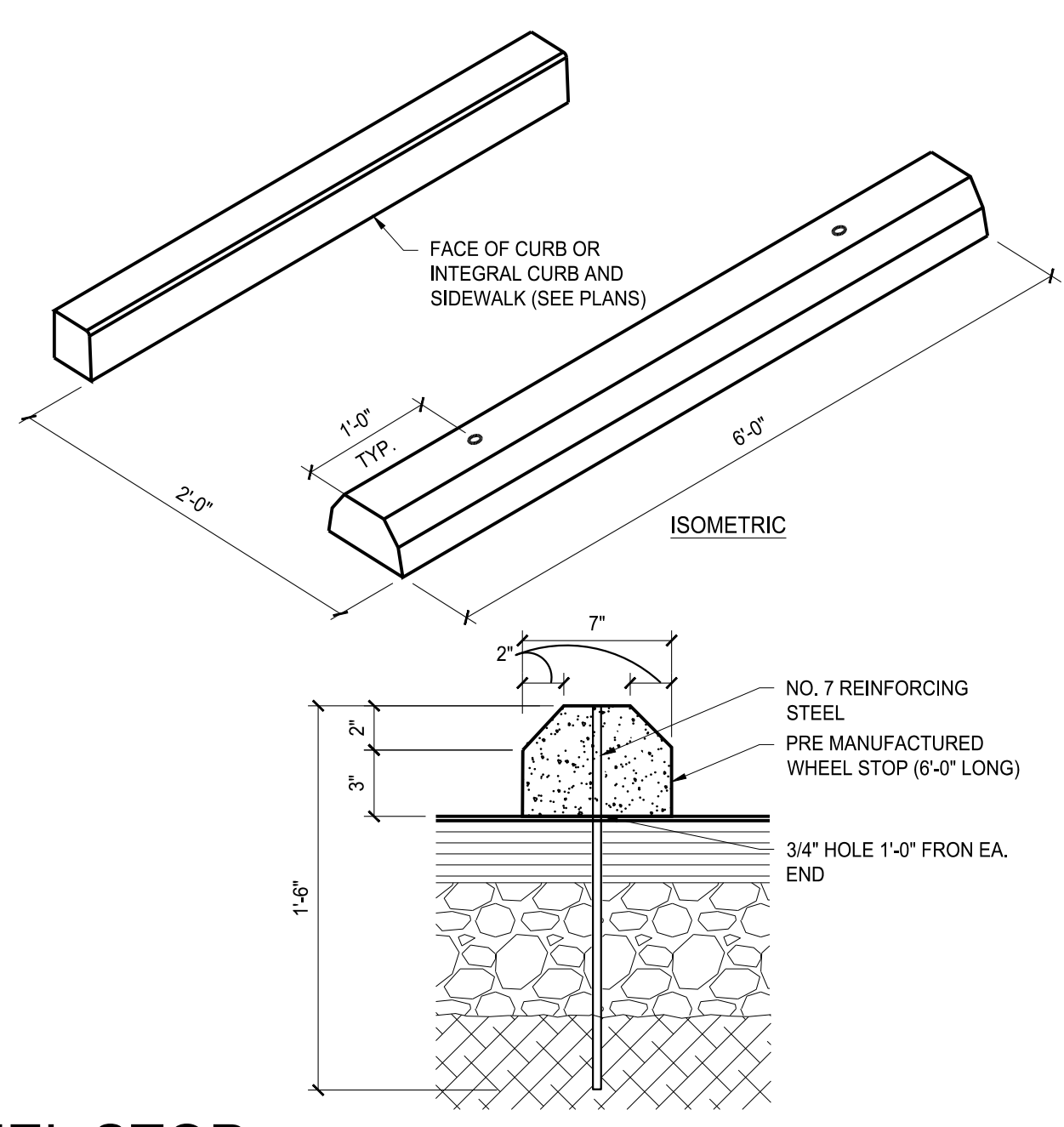
HANDICAP PARKING SPACE



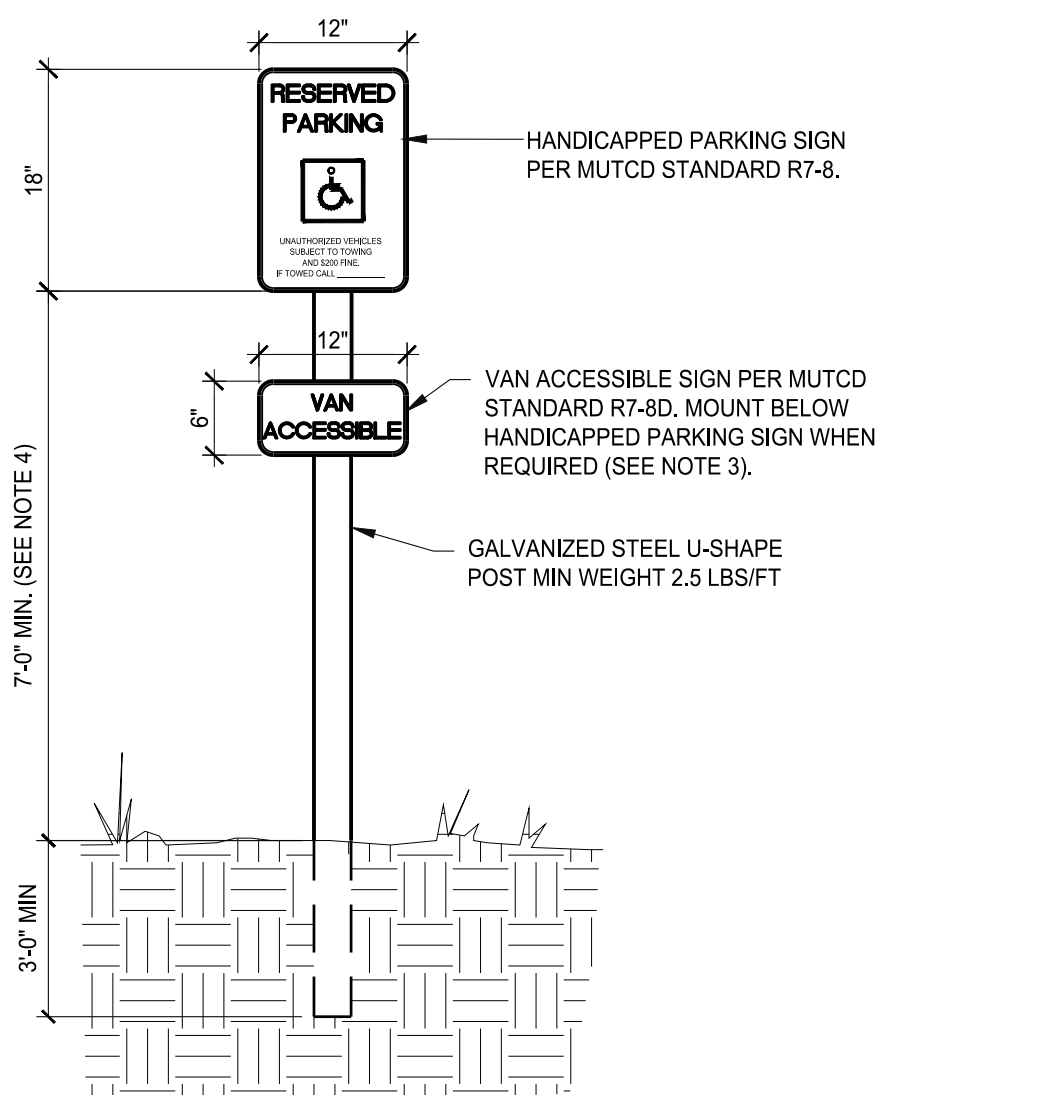
'NO PARKING' AREA



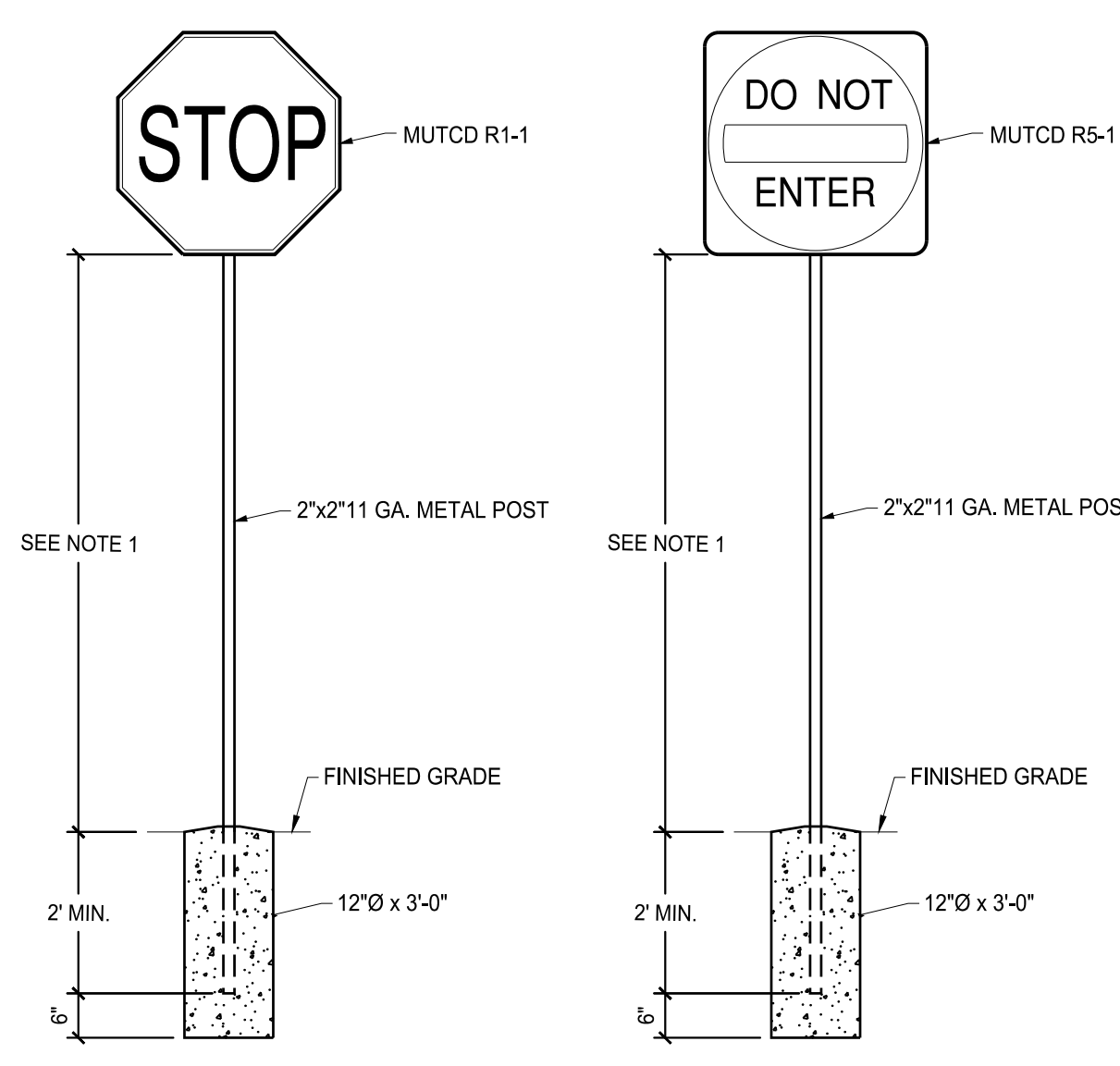
PAINTED HANDICAP SYMBOL



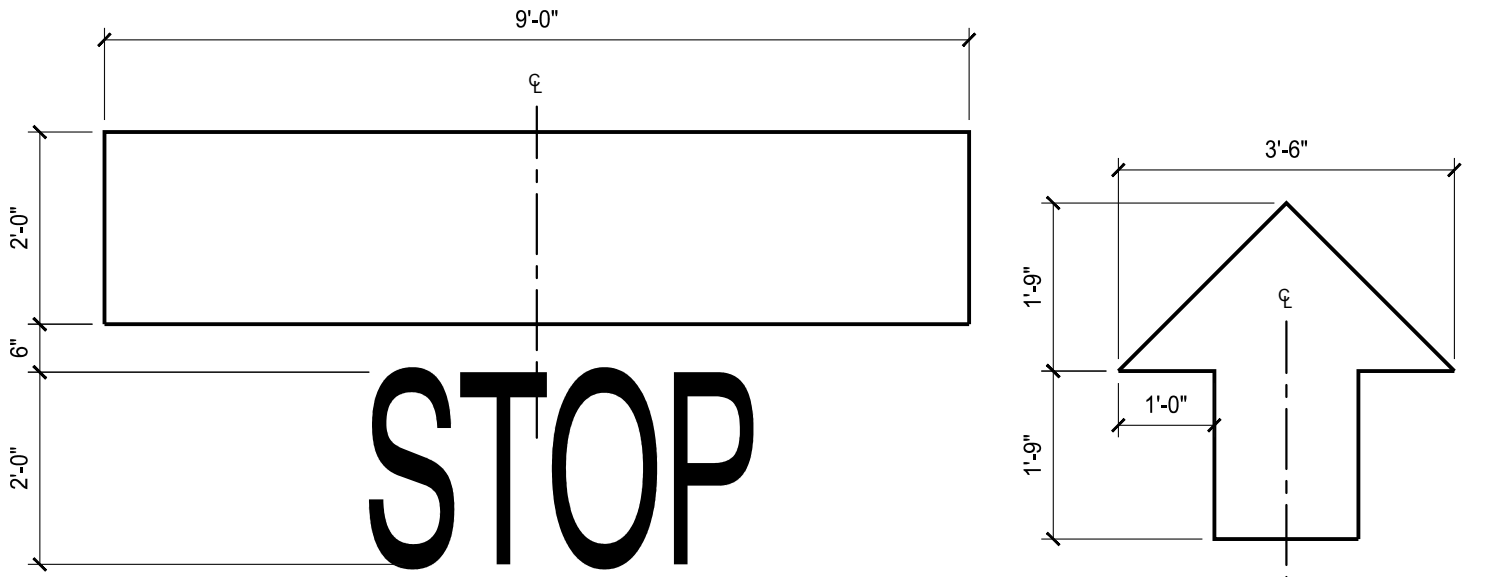
WHEEL STOP



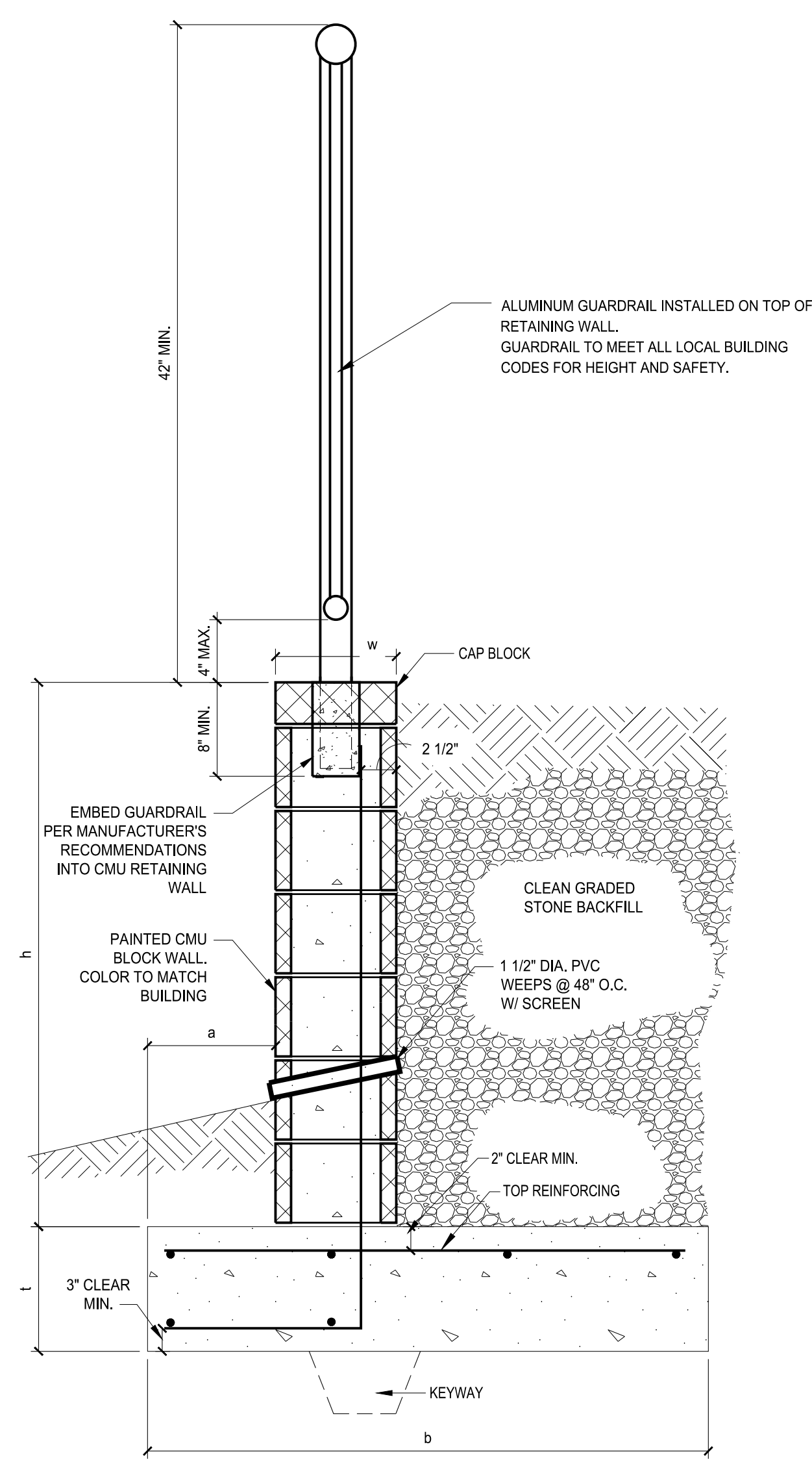
STANDARD HANDICAP SIGN



TRAFFIC SIGNAGE



PAINTED MARKINGS



RETAINING WALL WITH RAILING

h	w	a	b	t	Dowels and Vertical Bars	Top Reinforcing	Continuous Top Bars	Continuous Bottom Bars	6x6 Keyway	Horiz. Wall Reinforcing
0'-4"	8"	12"	3'-0"	12"	#4 BARS @ 32" O.C.	#4 BARS @ 24" O.C.	(4) #4 BARS	(1) #4 BAR	NO	(1) #3 BAR @ 8" O.C.

MBI

ENGINEER

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KNOXVILLE, TN 37919
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SEAL

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PROJECT INFORMATION
PROJECT:

PROJECT ADDRESS: BEEHIVE 3D

PROJECT NO.: 1001 KEMP FARM LANE
KNOXVILLE, TN 37932
210390
NOTES
PLANNING COMMISSION FILE #: 3-J-22-UR
TTODA CASE #: 3-B-22-TOB

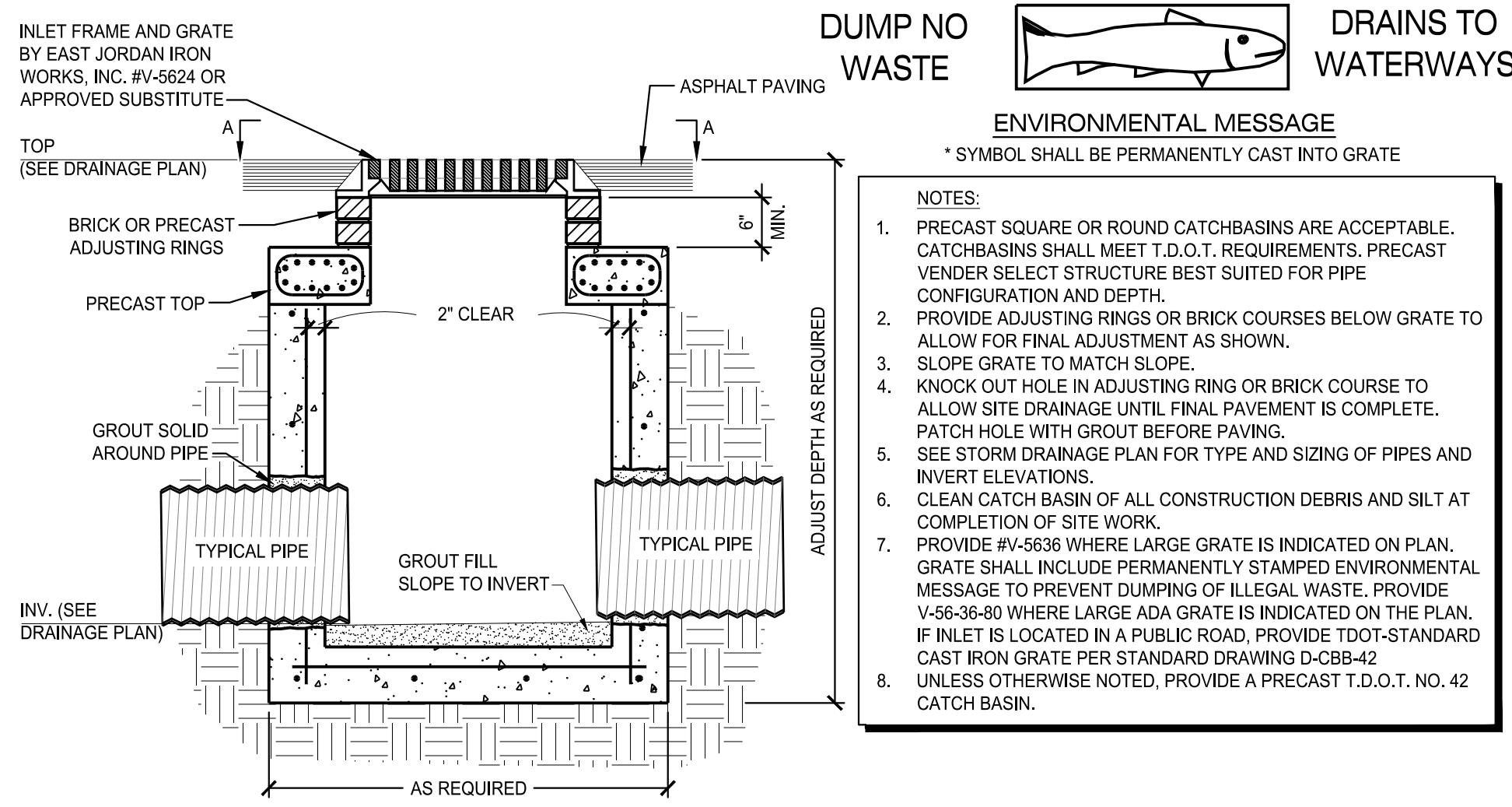
ACTIVE DESIGN PHASE
FOR REVIEW ONLY
FOR PERMITTING ONLY
SCHEMATIC DESIGN
DESIGN DEVELOPMENT
CONSTRUCTION BIDDING
CONSTRUCTION DOCUMENTS
AS-BUILT RECORD SET

REVISION INFORMATION
NO. DATE DESCRIPTION

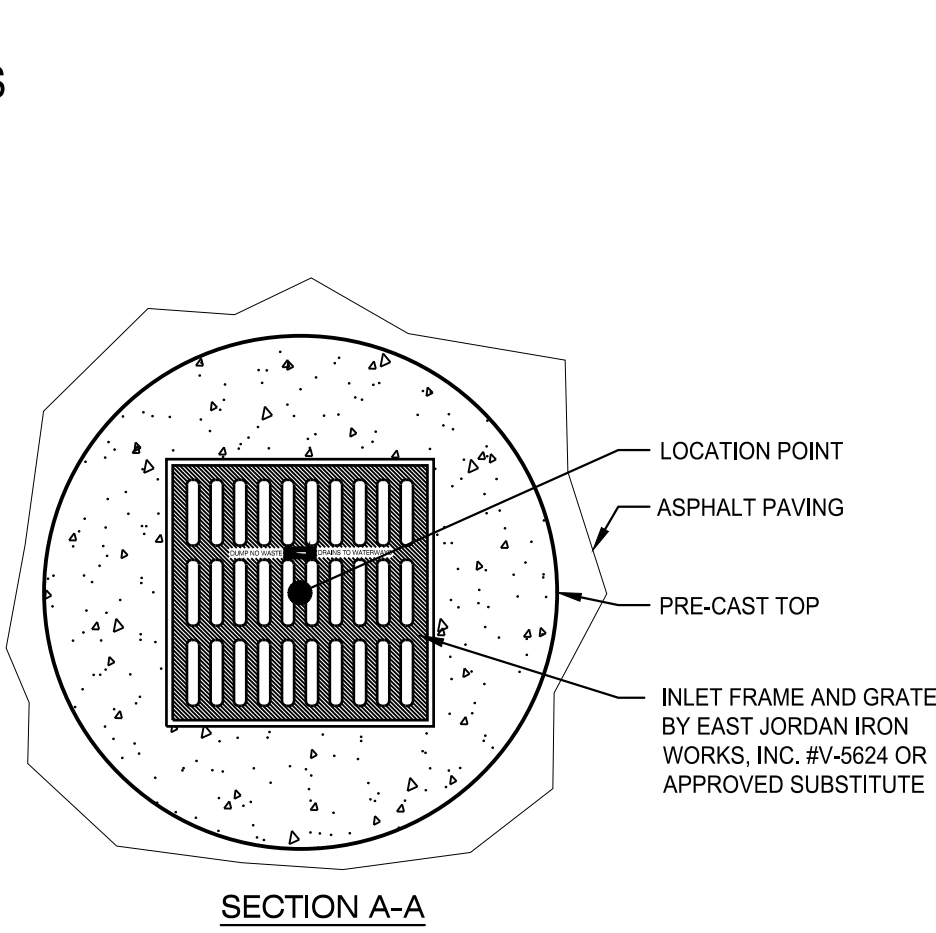
KEY PLAN

SHEET INFORMATION
SHEET ISSUED: 02/22/2022
DESIGNED BY: G.A.D.
DRAWN BY: G.A.D.
REVIEWED BY: C.B.T.
SHEET TITLE:

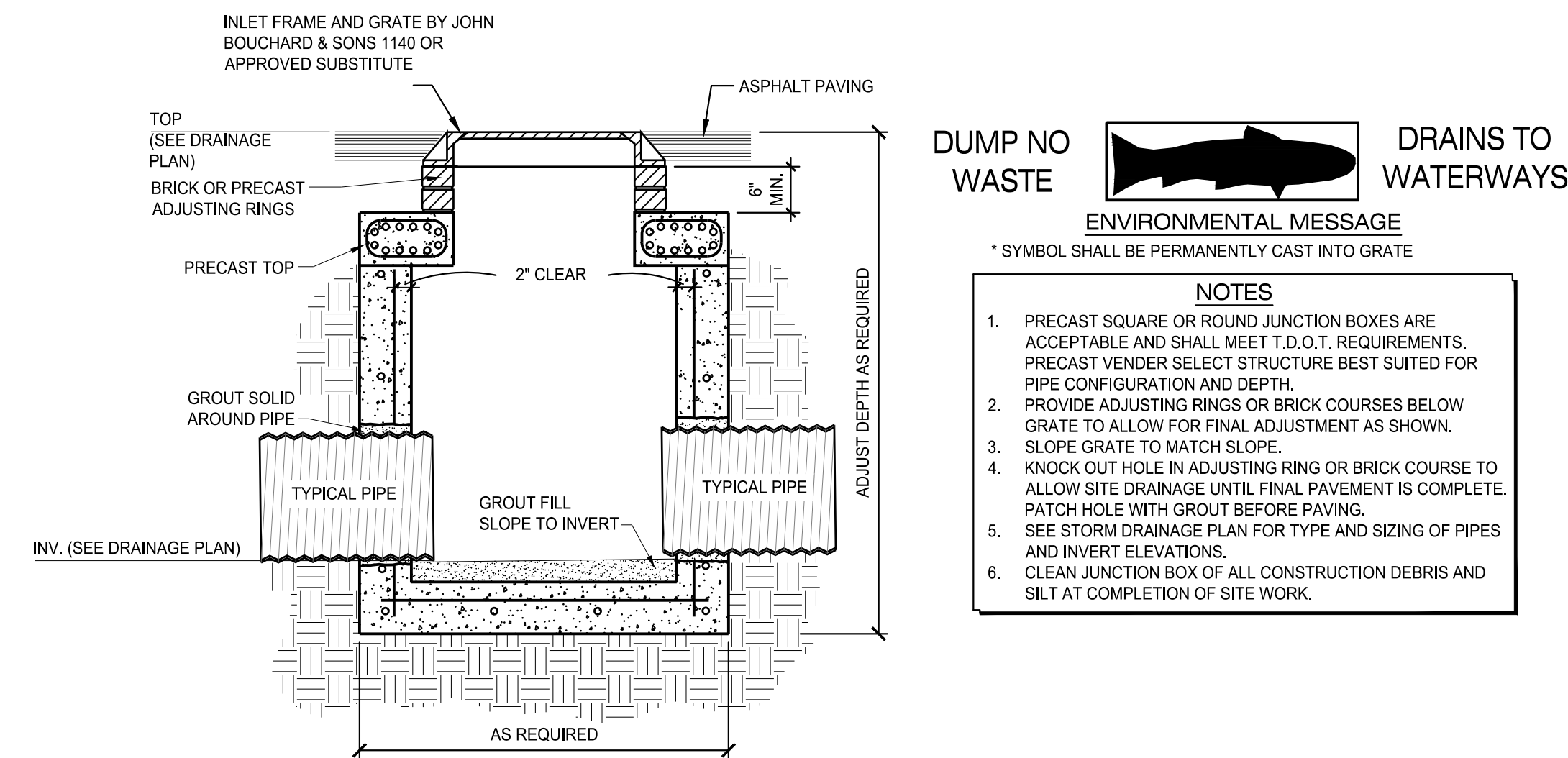
CIVIL DETAILS
SHEET NO.: C802



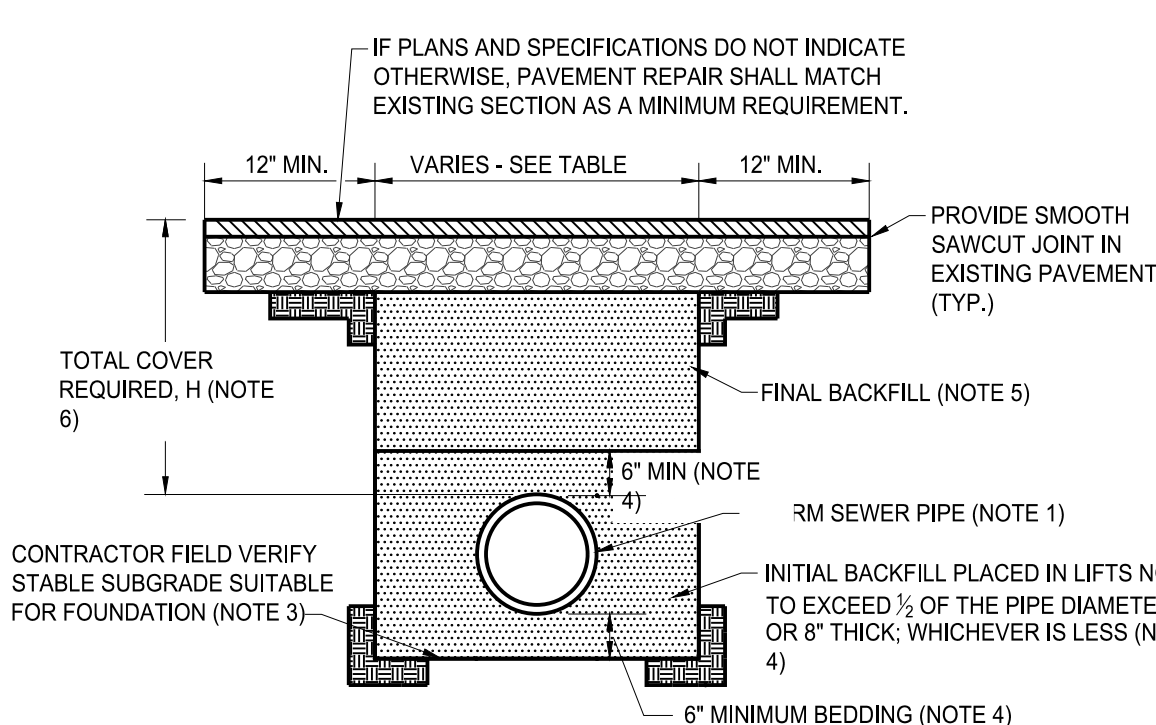
CATCH BASIN



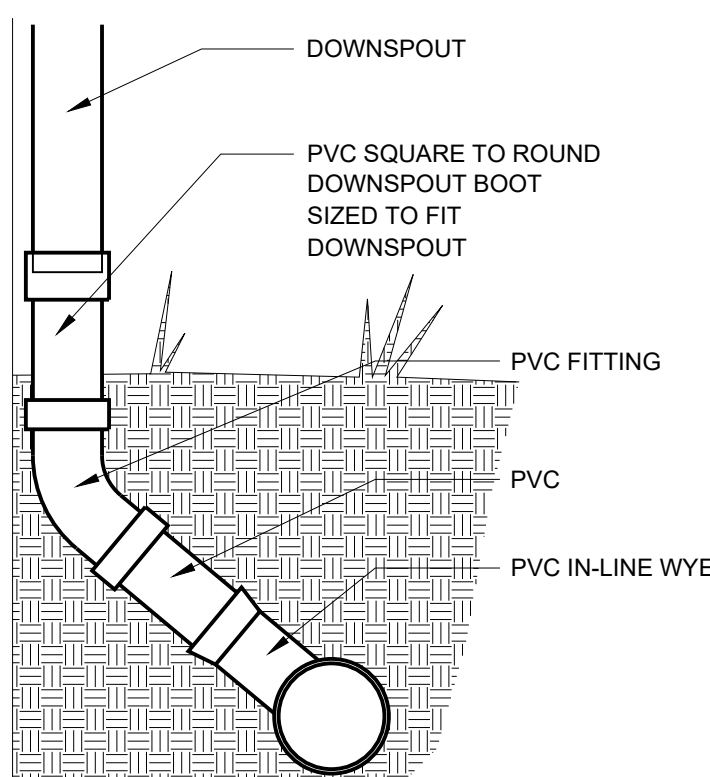
CURB INLET



JUNCTION BOX



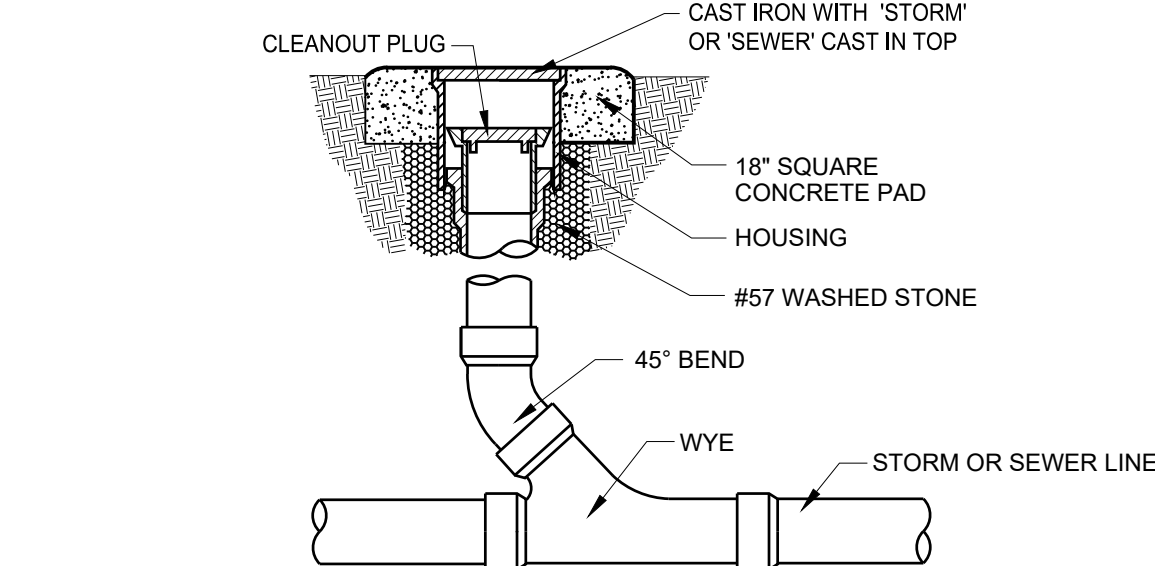
STORM SEWER TRENCH



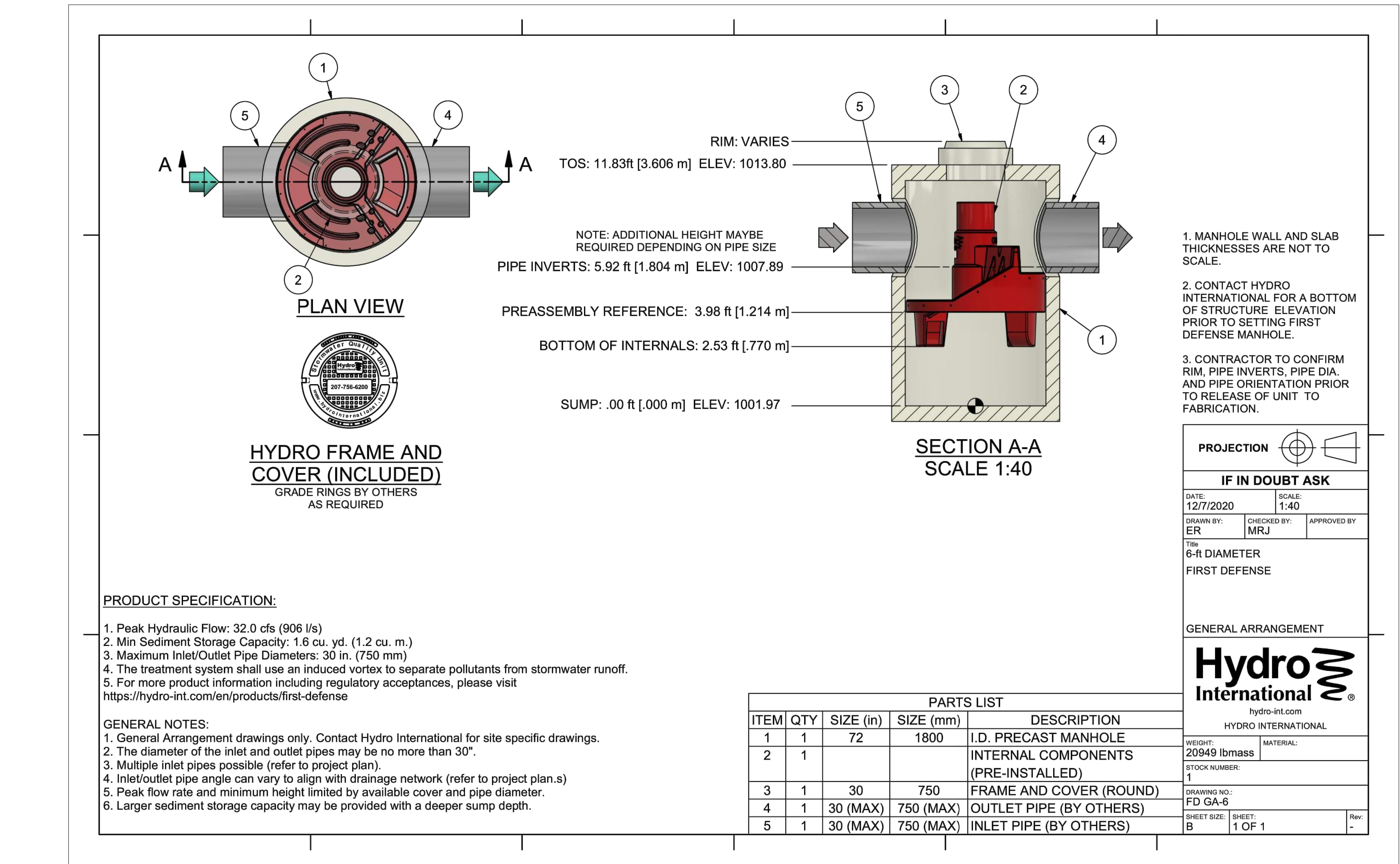
DOWNSPOUT BOOT

ALUMINIZED CMP, HDPE AND PVC	
PIPE DIA (IN)	MINIMUM WIDTH (IN)
4	21
6	23
8	26
10	28
12	30
15	34
18	39
24	48
30	56
36	64
42	72
48	80
54	88
60	96

RCP AND CONCRETE	
PIPE DIA (IN)	MINIMUM WIDTH (IN)
12	22
15	26
18	31
24	40
30	50
36	59
42	68
48	78
54	87
60	96



STORM/SEWER CLEANOUT



WATER QUALITY UNIT

ENGINEER

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FAILURE TO PERFORM AND/OR FOLLOW THE DESIGN
PROFESSIONAL'S GUIDANCE WITH RESPECT TO ANY
UNUSUAL, UNUSUAL, UNUSUAL, UNUSUAL, UNUSUAL
OR CONFLICTS WHICH ARE ALLEGED.

PROJECT INFORMATION
PROJECT:
BEEHIVE 3D
PROJECT ADDRESS:
1001 KEMP FARM LANE
KNOXVILLE, TN 37932
210300
PROJECT NO.:
NOTES
PLANNING COMMISSION FILE # 3-J-22-UR
TTODA CASE # 3-B-22-TOB

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AS-BUILT RECORD SET

REVISION INFORMATION
NO. DATE DESCRIPTION

KEY PLAN

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SHEET ISSUED: 02/22/2022
DESIGNED BY: G.A.D.
DRAWN BY: G.A.D.
REVIEWED BY: C.B.T.
SHEET TITLE:

CIVIL DETAILS
SHEET NO.:
C803

PLANTING SPECIFICATIONS

SCOPE OF WORK
PROVIDE ALL LABOR AND EQUIPMENT NECESSARY FOR A COMPLETE AND QUALITY LANDSCAPE AS PER PLANS AND SPECIFICATIONS.

REFERENCES AND STANDARDS
PERFORM ALL WORK IN ACCORDANCE WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES, AND ORDINANCES.

PROVIDE LICENSES AND NECESSARY PERMITS PRIOR TO BEGINNING WORK.
CARRY GENERAL LIABILITY AND WORKMAN'S COMPENSATIONS INSURANCE IN AMOUNTS REQUIRED BY THE STATE.
QUALITY OF ALL MATERIALS SHALL MEET OR EXCEED THE STANDARDS OF THE AMERICAN STANDARD FOR NURSERY STOCK, LATEST EDITION, AS PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN.

PROJECT CONDITIONS
REVIEW AND BECOME FAMILIAR WITH SITE CONDITIONS AND CONSTRUCTION DOCUMENTS. PROTECT ALL UTILITIES AND EXISTING FACILITIES. FIELD VERIFY ROOF, PROPERTY LINE WITH OWNERS.
IF CONDITIONS DETRIMENTAL TO PLANT GROWTH AND INSTALLATION ARE ENCOUNTERED, (I.E. ADVERSE DRAINAGE CONDITIONS AND OBSTRUCTIONS) CONTACT THE LANDSCAPE ARCHITECT FOR INSTRUCTIONS.

LAYOUT
LAYOUT AND STAKE ALL SITE WORK AND PLANTINGS.
CONTACT LANDSCAPE ARCHITECT FOR APPROVAL, PRIOR TO START OF WORK.
ALLOW THREE DAYS AFTER NOTIFICATION OF STAKING FOR APPROVAL.

THE LANDSCAPE ARCHITECT RESERVES THE RIGHT TO ADJUST PLANTINGS, LOCATIONS, ETC. TO ACCOMMODATE LOCAL CONDITIONS. SUCH ADJUSTMENTS, IF MADE, WILL BE DEEMED CLARIFICATIONS AND NOT CHANGE ORDERS.

EROSION CONTROL AND SITE CLEANUP
PROVIDE EROSION CONTROL, AS NECESSARY. MAINTAIN SITE CLEANUP THROUGHOUT WORK AND PROVIDE A FINAL JOB CLEANUP.

TREES, SHRUBS AND GROUNDCOVERS
PLANT MATERIAL
NURSERY GROWN, SOUND, HEALTHY AND VIGOROUS, WELL BRANCHED AND DENSELY FOLIATED WHEN IN LEAF AND HAVE HEALTHY, WELL DEVELOPED ROOT SYSTEMS.
GROWN UNDER CLIMATIC CONDITIONS SIMILAR TO THOSE IN LOCALITY OF PROJECT (PREFERABLY WITHIN A 200-MILE RADIUS OF THE PROJECT SITE).
PLANTS MUST BE EQUAL OR EXCEED THE MEASUREMENTS DENOTED IN THE PLANT LIST, WHICH ARE MINIMUM ACCEPTABLE SIZES.
PLANTS ONLY AS DIRECTED BY LANDSCAPE ARCHITECT. IN NO CASE SHOULD THE PLANTS BE PRUNED BACK TO AN EXTENT THAT THEY NO LONGER MEET THE SPECIFICATIONS.

SUBMITTALS
PROVIDE VERIFICATION OF PLANT INSPECTION CERTIFICATES, GENUS, SPECIES AND VARIETY, PROPOSED SCHEDULE OF WORK, SOIL TEST RESULTS, PROPOSED RATES OF APPLICATION OF FERTILIZERS AND SOIL CONDITIONERS PRIOR TO INSTALLATION.

PLANT INSPECTION
THE LANDSCAPE ARCHITECT MAY INSPECT PLANT MATERIALS EITHER AT THE PLACE OF GROWTH OR AT THE SITE BEFORE PLANTING. DEFECTIVE OR UNSATISFACTORY MATERIAL MAY BE REJECTED AT ANY TIME DURING PROCESS OF WORK.

SOIL AMENDMENTS
FERTILIZER: COMMERCIAL GRADE, 10-6-4 FORMULA CONFORMING TO U.S. DEPARTMENT OF AGRICULTURAL STANDARDS DELIVERED IN ORIGINAL UNOPENED CONTAINERS BEARING MANUFACTURER'S GUARANTEED ANALYSIS AND MIXTURE.

EXISTING SOIL
CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY EXISTING SOIL CONDITION FOR DRAINAGE AND NUTRIENT CONTENT. REPORT ANY PROBLEMS TO LANDSCAPE ARCHITECT PRIOR TO BEGINNING PLANT INSTALLATION.

TOP SOIL
1. FERTILE, FRIABLE, NATURAL LOAM TYPICAL FOR LOCALITY.
2. AGRICULTURAL SOIL, CAPABLE OF SUSTAINING VIGOROUS PLANT GROWTH.
3. TAKEN FROM WELL-DRAINED SITE.
4. FREE OF SUBSOIL, CLAY LUMPS OR STONES LARGER THAN ONE INCH IN DIAMETER.
5. HAVING PH VALUE OF 6.4 MINIMUM AND 7.0 MAXIMUM.
6. CONTAINING 6 PERCENT MINIMUM ORGANIC MATTER.

1. TEST TOPSOIL TO INSURE PROPER PERCENTAGE OF NITROGEN, PHOSPHORUS, AND POTASH, ORGANIC MATTER AND PH VALUE.

UNLESS SPECIFIED IN PLANTING SCHEDULE ALL PLANTING AREAS TO HAVE 12 INCHES OF TOPSOIL AND ALL LAWN AREAS TO HAVE 4 INCHES OF TOP SOIL.

PLANTING SOIL MIX:
5 PARTS TOPSOIL (LOAM) AND 2 PARTS SAND (USE WITH CLAY LOAMS OR SILTY LOAMS).
NOTE: PLANTING SOIL MIX MAY BE SUBSTITUTED WITH APPROVED TOPSOIL.

PREPARED PLANTING BED AREAS (ANNUALS & GROUNDCOVERS)
1. TILL SOIL TO A DEPTH OF 6 INCHES.
2. ADD MINIMUM OF 4 INCHES TOPSOIL AND 1 INCHES PEAT.
3. EVENLY TILL TO DEPTH OF 6 INCHES.
4. RAKE TO LEVEL, GRADE THEN ADD 3 INCHES PINE BARK MULCH PRIOR TO PLANTING.

LANDSCAPE BEDS
ALL LANDSCAPE BEDS TO BE 4 TO 6 INCHES HIGHER THAN EXISTING FINISHED GRADE. TAPER BEDS ADJACENT TO LANDSCAPE SURFACES AND INSTALL "V" TRENCH EDGE ADJACENT TO LAWNS (SEE DETAIL).

MULCHES
MULCHES SHALL BE FREE FROM MATURED SEED, NOXIOUS WEEDS, EGG CASES, HARMFUL INSECTS, OR ANY SPECIES OF CHEMICAL DETRIMENTAL TO THE DEVELOPMENT OF PLANTS AND HUMANS. CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR CONTROL OF NOXIOUS WEEDS INTRODUCED ON THE SITE IN THE MULCH FOR PERIOD OF ONE YEAR AFTER SUBSTANTIAL COMPLETION OF THE WORK. MULCHES SHALL EXHIBIT UNIFORM TEXTURE, COLOR AND PARTICLE SIZE. BEFORE LANDSCAPE ARCHITECT'S APPROVAL FOR SPECIFIC MULCH TYPE.

PROTECTION
PROTECT WORK FROM EROSION, FLOODING, WINDS AND RAIN. REPAIR OR REPLACE ANY DAMAGED AREAS.

PLANTING
REMOVE BURLAP AND TIES FROM TOP AND PARTIAL SIDES OF ALL PLANT BALLS.
PLANT ALL TREES, SHRUBS AND GROUND COVERS AS PER PLANTING DETAILS.
ROOTS OF GROUNDCOVER TO BE PLANTED IN SOIL, NOT MULCH TOP DRESSING.

MAINTENANCE
MAINTAIN PLANTINGS (WATERING, WEEDING, FERTILIZING, CULTIVATION, DISEASE AND INSECT CONTROL, STAKING, ETC.) UNTIL FINAL INSPECTION AND ACCEPTANCE.
SUBMIT WRITTEN MAINTENANCE INSTRUCTIONS TO LANDSCAPE ARCHITECT.

INSPECTION AND ACCEPTANCE
UPON COMPLETION OF PLANTING, REQUEST AN INSPECTION FOR PROJECT ACCEPTANCE. ONLY PLANTING SHOWING SIGNS OF HEALTHY GROWTH AND SATISFACTORY CONDITION OF FOLIAGE WILL BE ACCEPTED. MAINTAIN THE PROJECT UNTIL ALL INSPECTION PUNCH LIST ITEMS (EXCLUSIVE OF SEASON REPLACEMENT PLANTINGS) HAVE BEEN CORRECTED TO THE SATISFACTORY OF THE LANDSCAPE ARCHITECT.

GUARANTEE AND REPLACEMENT
GUARANTEE ALL PLANT MATERIAL FOR A PERIOD OF ONE YEAR AFTER DATE OF PROJECT ACCEPTANCE. GUARANTEE AGAINST DEFECTS, INCLUDING DEATH AND UNSATISFACTORY GROWTH, EXCEPT FOR DEFECTS RESULTING FROM NEGLECT BY OWNER, ABUSE OR DAMAGE BY OTHERS, OR UNUSUAL PHENOMENA OR INCIDENTS WHICH ARE BEYOND CONTRACTOR'S CONTROL. IMMEDIATELY REMOVE AND REPLACE TREES, SHRUBS, OR OTHER PLANTS FOUND TO BE UNSATISFACTORY DURING GUARANTEE PERIOD.

LAWNS AND GRASSES
QUALITY ASSURANCE
PROVIDE FRESH, CLEAN, NEW-CROP SEED COMPLYING WITH TOLERANCE FOR PURITY AND GERMINATION ESTABLISHED BY OFFICIAL SEED ANALYSTS OF NORTH AMERICA. SUBMIT SEED VENDOR'S CERTIFIED STATEMENT FOR EACH GRASS SEED MIXTURE.

PROJECT CONDITIONS
PROCEED WITH AND COMPLETE LAWNS AND GRASSES AS PORTIONS OF SITE BECOME AVAILABLE.
WORKING WITH SEASONAL LIMITATIONS, PROJECT MANAGER TO INQUIRE CONTRACTOR AS PARTS OF SITE BECOME AVAILABLE AND ESTABLISH A REASONABLE SCHEDULE TO PERFORM WORK.

FERTILIZER AND LIME
FERTILIZER WITH COMMERCIAL FERTILIZER. PERCENTAGE TO BE DETERMINED WITH ANALYSIS AND SEASON OF INSTALLATION.
LIME TO BE NATURAL DOLOMITIC LIMESTONE CONTAINING NOT LESS THAN 88% CARBONATES.
MINIMUM OF 30 # MAGNESIUM CARBONATES.

SEED
SEED MIXTURE AND RATE OF APPLICATION SHALL BE AS SPECIFIED IN MATERIAL LIST.

SEED AND SOIL PREPARATION
1. TILL TO A DEPTH OF NOT LESS THAN 6 INCHES.
2. ELIMINATE UNEVEN AREAS AND LOW SPOTS. MAKE CHANGES IN GRADE GRADUAL.
3. TILL SOIL TO A HOMOGENEOUS MIXTURE OF FINE TEXTURE, FREE OF CLODS.
4. REMOVE STONES LARGER THAN ONE INCH AND OTHER EXTRANEOUS MATERIAL.
5. APPLY TOPSOIL LAYER AS SPECIFIED.
6. APPLY LIME AT RATE REQUIRED TO ACHIEVE PH RANGE BETWEEN 6.0 AND 6.5.
7. APPLY FERTILIZED AT RATE REQUIRED BY ANALYSIS.
8. MIX THOROUGHLY IN UPPER TWO INCHES OF TOPSOIL.

SEEDING AND MULCHING
APPLY SEED AT RATE SPECIFIED OR AS NECESSARY TO INSURE A UNIFORM AND FULL STAND OF GRASS, EVENLY, BY SOWING EQUAL QUANTITY IN 2 DIRECTIONS AT RIGHT ANGLES TO EACH OTHER.
RAKE SEED LIGHTLY INTO TOP 1/2 INCH DEEP BEDDED AREA WITH ROLLER NOT EXCEEDING 10 LBS. IMMEDIATELY FOLLOWING ROLLING, APPLY MULCH SPREAD UNIFORMLY TO FORM A CONTINUOUS BLANKET NOT LESS THAN 1/2 INCH THICK. MAINTAIN CLEAN 4" FREE BEDDED AREA WITH ROLLER NOT EXCEEDING 10 LBS. ON SLOPED SLOPES, SHINE GRADE IS 3" OR GREATER. COVER WITH EROSION FABRIC.

RODDING
LAY SOIL LIGHT WITH NO OPEN JOINTS AND NOT OVERLAPPING. TAMP OR ROLL LIGHTLY TO ENSURE CONTACT WITH SUBGRADE.
ON SLOPES GREATER THAN 3:1, INSTALL SOD STAPLES.

LAWN MAINTENANCE
MAINTAIN LAWNS UNTIL GRASS IS WELL ESTABLISHED AND EXHIBITS A VIGOROUS GROWING CONDITION.
IF SEEDING IN FALL AND IF NOT CONSIDERED ACCEPTABLE AT THAT TIME, CONTINUE MAINTENANCE THE FOLLOWING SPRING UNTIL ACCEPTABLE LAWN IS ESTABLISHED.

MAINTAIN LAWNS BY WATERING, WEEDING, MOWING, TRIMMING, AND OTHER OPERATIONS SUCH AS ROLLING, RE-GRAVING AND REPLANTING AS REQUIRED TO ESTABLISH A SMOOTH, ACCEPTABLE LAWN, FREE OF ERODED OR BARE AREAS.

PLANTING SPECIFICATIONS
SCALE: NOT TO SCALE

SHRUB PLANTING
SCALE: NOT TO SCALE

BED PREPARATION
SCALE: NOT TO SCALE

ROCK MULCH W/ EDGING
SCALE: NOT TO SCALE

Overall Plan
SCALE: 1" = 100 FT.

LANDSCAPE REQUIREMENTS

• KNOX COUNTY "B" BUSINESS AND TECHNOLOGY PARK ZONE.

• TENNESSEE TECHNOLOGY CORRIDOR DESIGN GUIDELINES

NOTES:
1. DENSE EXISTING MEDIUM TO LARGE CANOPY TREES, EVERGREEN TREES, AND UNDERSTORY VEGETATION AREA (2.15 ACRES - HATCHED AREA) PROPOSED TO FULFILL TREES PER ACRE AND EVERGREEN TREE PERCENTAGE REQUIREMENT.

PLANT SCHEDULE

DECIJUGOUS TREES
15
COMMON / BOTANICAL NAME
BOSQUE ELM / *Ulmus parvifolia* 'Bosque'

RIVER BIRCH / *Betula nigra* 'Dura Heat' Multi-Trunk

MILLOW OAK / *Quercus phellos*

EVERGREEN TREES
3
COMMON / BOTANICAL NAME
BRAKENS MAGNOLIA / *Magnolia grandiflora* 'Brakens'

NELLIE R STEVENS / *Ilex* var. 'Nellie R Stevens'

FLOWERING TREES
3
COMMON / BOTANICAL NAME
CREPE MYRTLE / *Lagerstroemia indica* 'Centennial Spirit'

DISSECTUM MAPLE / *Acer palmatum* 'Dissectum' 'Tamikeyama'

LIMELIGHT HYD. / *Hydrangea paniculata* 'Limelight' TM

MINI. CRAPE MYRTLE / *Lagerstroemia indica* 'Pokamoke'

OAKLEAF HYDRANGEA / *Hydrangea quercifolia*

PEE KEE HYD. / *Hydrangea quercifolia* 'Pee Kees'

EVERGREEN SHRUBS
21
COMMON / BOTANICAL NAME
CHESTNUT HILL LAUREL / *Prunus laurocerasus* 'Chestnut Hill'

DWARF CHINESE HOLLY / *Ilex cornuta* 'Rotunda'

DWF. BURFORD HOLLY / *Ilex cornuta* 'Burfordii' Nana'

OTTO LUYKEN LAUREL / *Prunus laurocerasus* 'Otto Luyken'

PLUM YEN / *Cephalotaxus harringtonia* 'Prostrata'

GRASSES
24
COMMON / BOTANICAL NAME
MAIDEN GRASS / *Miscanthus sinensis* 'Morning Light'

GROUND COVERS
40
COMMON / BOTANICAL NAME
DAYLILY / *Heimerocallis hybrid* 'Stella de Oro'

IRIS / *Iris* bearded

LIRIOPE / *Liriope muscari* 'Big Blue'

ADDITIONAL ITEMS

10 HARDWOOD MULCH trees and shrubs

TOP SOIL - PLANTING BEDS (12" all planting bed areas / 4" all lawn areas)

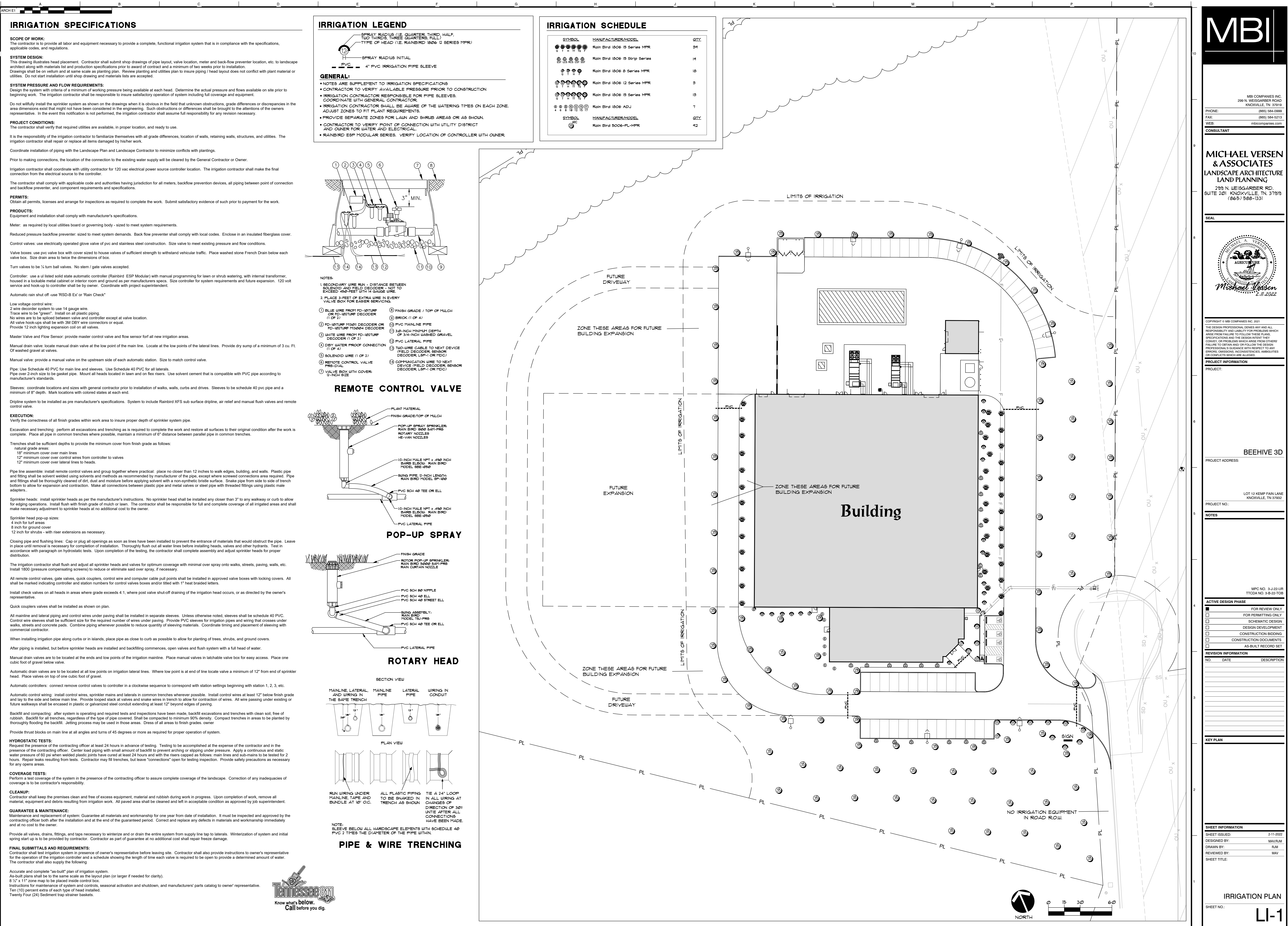
SOD 101/ rescue blend

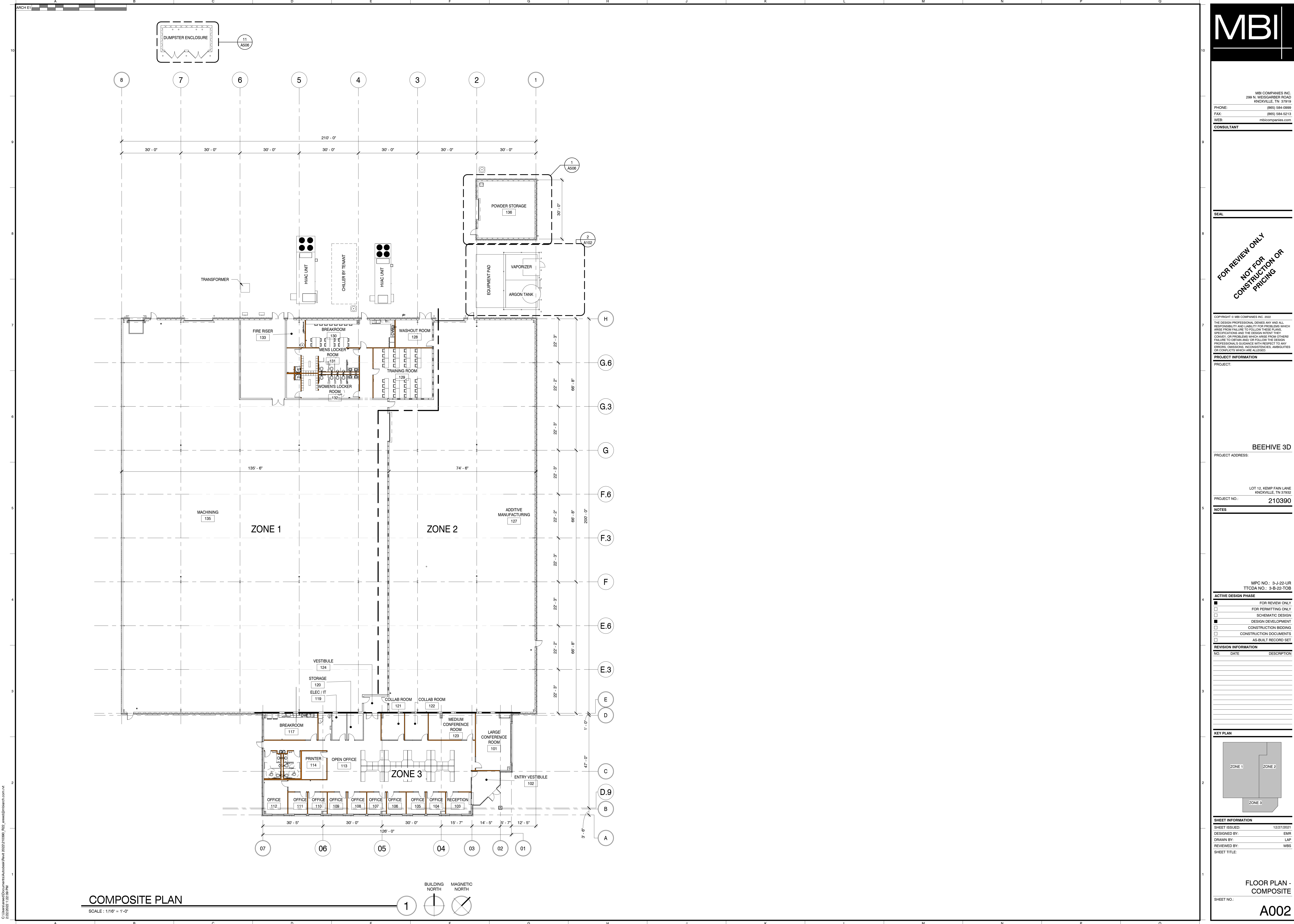
SEED 101/ rescue blend

ROCK MULCH 4-6" river slick stone with pea gravel infill

QUANTITIES ARE FOR THE CONTRACTORS CONVENIENCE ONLY. CONTRACTORS SHALL BE RESPONSIBLE FOR ALL PLANTINGS ILLUSTRATED ON PLAN.

NOTES:
1. PLANT SO THAT TOP OF ROOT BALL IS EVEN WITH THE FINISHED GRADE.
2. PLANT ALL CUTS OVER 1" DIA.
3. FLAG GUY WIRES WITH SURVEYOR TAPE.
4. DEEPROOT "ARBORTIE" TEL: (800) 498-1668
5. 3" MULCH FORT SAUCER WITH 3" CONTINUOUS RIM
6. ARBORTIE ANCHOR KIT PROFESSIONAL TREES TO 3" CAL. 3" CAL. CUTS TO 6" CAL.
7. SPECIFIED PLANTING MIX WATER + TAMP TO REMOVE AIR POCKETS
8. REMOVE TOP 1/3 OF BURLAP
9. COMPACTED SUBSOIL AS A PRESENTIAL FOR BALL TO PREVENT SETTLING
10. PLANT SPACING AS PER PLAN
11. 4" TOPSOIL BED PREPARED AS PER SPECIFICATIONS
12. FINISH GRADE
13. FINISH GRADE FOR LAWN
14. EXISTING SOIL
15. 2" x 3" BALL DIA.
16. 3" MULCH
17. FORT SAUCER WITH 3" CONTINUOUS RIM
18. SPECIFIED PLANTING MIX WATER + TAMP TO REMOVE AIR POCKETS
19. REMOVE TOP 1/3 OF BURLAP
20. COMPACTED SUBSOIL AS A PRESENTIAL FOR BALL TO PREVENT SETTLING
21. 2 X BALL DIA.
22. 3 X BALL DIA.
23. 4" TOPSOIL BED PREPARED AS PER SPECIFICATIONS
24. FINISH GRADE
25. EXISTING SOIL
26. 2" x 3" BALL DIA.
27. 3" MULCH
28. FORT SAUCER WITH 3" CONTINUOUS RIM
29. SPECIFIED PLANTING MIX WATER + TAMP TO REMOVE AIR POCKETS
30. REMOVE TOP 1/3 OF BURLAP
31. COMPACTED SUBSOIL AS A PRESENTIAL FOR BALL TO PREVENT SETTLING
32. 2 X BALL DIA.
33. 3 X BALL DIA.
34. 4" TOPSOIL BED PREPARED AS PER SPECIFICATIONS
35. FINISH GRADE
36. EXISTING SOIL
37. 2" x 3" BALL DIA.
38. 3" MULCH
39. FORT SAUCER WITH 3" CONTINUOUS RIM
40. SPECIFIED PLANTING MIX WATER + TAMP TO REMOVE AIR POCKETS
41. REMOVE TOP 1/3 OF BURLAP
42. COMPACTED SUBSOIL AS A PRESENTIAL FOR BALL TO PREVENT SETTLING
43. 2 X BALL DIA.
44. 3 X BALL DIA.
45. 4" TOPSOIL BED PREPARED AS PER SPECIFICATIONS
46. FINISH GRADE
47. EXISTING SOIL
48. 2" x 3" BALL DIA.
49. 3" MULCH
50. FORT SAUCER WITH 3" CONTINUOUS RIM
51. SPECIFIED PLANTING MIX WATER + TAMP TO REMOVE AIR POCKETS
52. REMOVE TOP 1/3 OF BURLAP
53. COMPACTED SUBSOIL AS A PRESENTIAL FOR BALL TO PREVENT SETTLING
54. 2 X BALL DIA.
55. 3 X BALL DIA.
56. 4" TOPSOIL BED PREPARED AS PER SPECIFICATIONS
57. FINISH GRADE
58. EXISTING SOIL
59. 2" x 3" BALL DIA.
60. 3" MULCH
61. FORT SAUCER WITH 3" CONTINUOUS RIM
62. SPECIFIED PLANTING MIX WATER + TAMP TO REMOVE AIR POCKETS
63. REMOVE TOP 1/3 OF BURLAP
64. COMPACTED SUBSOIL AS A PRESENTIAL FOR BALL TO PREVENT SETTLING
65. 2 X BALL DIA.
66. 3 X BALL DIA.
67. 4" TOPSOIL BED PREPARED AS PER SPECIFICATIONS
68. FINISH GRADE
69. EXISTING SOIL
70. 2" x 3" BALL DIA.
71. 3" MULCH
72. FORT SAUCER WITH 3" CONTINUOUS RIM
73. SPECIFIED PLANTING MIX WATER + TAMP TO REMOVE AIR POCKETS
74. REMOVE TOP 1/3 OF BURLAP
75. COMPACTED SUBSOIL AS A PRESENTIAL FOR BALL TO PREVENT SETTLING
76. 2 X BALL DIA.
77. 3 X BALL DIA.
78. 4" TOPSOIL BED PREPARED AS PER SPECIFICATIONS
79. FINISH GRADE
80. EXISTING SOIL
81. 2" x 3" BALL DIA.
82. 3" MULCH
83. FORT SAUCER WITH 3" CONTINUOUS RIM
84. SPECIFIED PLANTING MIX WATER + TAMP TO REMOVE AIR POCKETS
85. REMOVE TOP 1/3 OF BURLAP
86. COMPACTED SUBSOIL AS A PRESENTIAL FOR BALL TO PREVENT SETTLING
87. 2 X BALL DIA.
88. 3 X BALL DIA.
89. 4" TOPSOIL BED PREPARED AS PER SPECIFICATIONS
90. FINISH GRADE
91. EXISTING SOIL
92. 2" x 3" BALL DIA.
93. 3" MULCH
94. FORT SAUCER WITH 3" CONTINUOUS RIM
95. SPECIFIED PLANTING MIX WATER + TAMP TO REMOVE AIR POCKETS
96. REMOVE TOP 1/3 OF BURLAP
97. COMPACTED SUBSOIL AS A PRESENTIAL FOR BALL TO PREVENT SETTLING
98. 2 X BALL DIA.
99. 3 X BALL DIA.
100. 4" TOPSOIL BED PREPARED AS PER SPECIFICATIONS
101. FINISH GRADE
102. EXISTING SOIL
103. 2" x 3" BALL DIA.
104. 3" MULCH
105. FORT SAUCER WITH 3" CONTINUOUS RIM
106. SPECIFIED PLANTING MIX WATER + TAMP TO REMOVE AIR POCKETS
107. REMOVE TOP 1/3 OF BURLAP
108. COMPACTED SUBSOIL AS A PRESENTIAL FOR BALL TO PREVENT SETTLING
109. 2 X BALL DIA.
110. 3 X BALL DIA.
111. 4" TOPSOIL BED PREPARED AS PER SPECIFICATIONS
112. FINISH GRADE
113. EXISTING SOIL
114. 2" x 3" BALL DIA.
115. 3" MULCH
116. FORT SAUCER WITH 3" CONTINUOUS RIM
117. SPECIFIED PLANTING MIX WATER + TAMP TO REMOVE AIR POCKETS
118. REMOVE TOP 1/3 OF BURLAP
119. COMPACTED SUBSOIL AS A PRESENTIAL FOR BALL TO PREVENT SETTLING
120. 2 X BALL DIA.
121. 3 X BALL DIA.
122. 4" TOPSOIL BED PREPARED AS PER SPECIFICATIONS
123. FINISH GRADE
124. EXISTING SOIL
125. 2" x 3" BALL DIA.
126. 3" MULCH
127. FORT SAUCER WITH 3" CONTINUOUS RIM
128. SPECIFIED PLANTING MIX WATER + TAMP TO REMOVE AIR POCKETS
129. REMOVE TOP 1/3 OF BURLAP
130. COMPACTED SUBSOIL AS A PRESENTIAL FOR BALL TO PREVENT SETTLING
131. 2 X BALL DIA.
132. 3 X BALL DIA.
133. 4" TOPSOIL BED PREPARED AS PER SPECIFICATIONS
134. FINISH GRADE
135. EXISTING SOIL
136. 2" x 3" BALL DIA.
137. 3" MULCH
138. FORT SAUCER WITH 3" CONTINUOUS RIM
139. SPECIFIED PLANTING MIX WATER + TAMP TO REMOVE AIR POCKETS
140. REMOVE TOP 1/3 OF BURLAP
141. COMPACTED SUBSOIL AS A PRESENTIAL FOR BALL TO PREVENT SETTLING
142. 2 X BALL DIA.
143. 3 X BALL DIA.
144. 4" TOPSOIL BED PREPARED AS PER SPECIFICATIONS
145. FINISH GRADE
146. EXISTING SOIL
147. 2" x 3" BALL DIA.
148. 3" MULCH
149. FORT SAUCER WITH 3" CONTINUOUS RIM
150. SPECIFIED PLANTING MIX WATER + TAMP TO REMOVE AIR POCKETS
151. REMOVE TOP 1/3 OF BURLAP
152. COMPACTED SUBSOIL AS A PRESENTIAL FOR BALL TO PREVENT SETTLING
153. 2 X BALL DIA.
154. 3 X BALL DIA.
155. 4" TOPSOIL BED PREPARED AS PER SPECIFICATIONS
156. FINISH GRADE
157. EXISTING SOIL
158. 2" x 3" BALL DIA.
159. 3" MULCH
160. FORT SAUCER WITH 3" CONTINUOUS RIM
161. SPECIFIED PLANTING MIX WATER + TAMP TO REMOVE AIR POCKETS
162. REMOVE TOP 1/3 OF BURLAP
163. COMPACTED SUBSOIL AS A PRESENTIAL FOR BALL TO PREVENT SETTLING
164. 2 X BALL DIA.
165. 3 X BALL DIA.
166. 4" TOPSOIL BED PREPARED AS PER SPECIFICATIONS
167. FINISH GRADE
168. EXISTING SOIL
169. 2" x 3" BALL DIA.
170. 3" MULCH
171. FORT SAUCER WITH 3" CONTINUOUS RIM
172. SPECIFIED PLANTING MIX WATER + TAMP TO REMOVE AIR POCKETS
173. REMOVE TOP 1/3 OF BURLAP
174. COMPACTED SUBSOIL AS A PRESENTIAL FOR BALL TO PREVENT SETTLING
175. 2 X BALL DIA.
176. 3 X BALL DIA.
177. 4" TOPSOIL BED PREPARED AS PER SPECIFICATIONS
178. FINISH GRADE
179. EXISTING SOIL
180. 2" x 3" BALL DIA.
181. 3" MULCH
182. FORT SAUCER WITH 3" CONTINUOUS RIM
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198. 3 X BALL DIA.
199. 4" TOPSOIL BED PREPARED AS PER SPECIFICATIONS
200. FINISH GRADE
201. EXISTING SOIL
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204. FORT SAUCER WITH 3" CONTINUOUS RIM
205. SPECIFIED PLANTING MIX WATER + TAMP TO REMOVE AIR POCKETS
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209. 3 X BALL DIA.
210. 4" TOPSOIL BED PREPARED AS PER SPECIFICATIONS
211. FINISH GRADE
212. EXISTING SOIL
213. 2" x 3" BALL DIA.
214. 3" MULCH
215. FORT SAUCER WITH 3" CONTINUOUS RIM
216. SPECIFIED PLANTING MIX WATER + TAMP TO REMOVE AIR POCKETS
217. REMOVE TOP 1/3 OF BURLAP
218. COMPACTED SUBSOIL AS A PRESENTIAL FOR BALL TO PREVENT SETTLING
219. 2 X BALL DIA.
220. 3 X BALL DIA.
221. 4" TOPSOIL BED PREPARED AS PER SPECIFICATIONS
222. FINISH GRADE
223. EXISTING SOIL
224. 2" x 3" BALL DIA.
225. 3" MULCH
226. FORT SAUCER WITH 3" CONTINUOUS RIM
227. SPECIFIED PLANTING MIX WATER + TAMP TO REMOVE AIR POCKETS
228. REMOVE TOP 1/3 OF BURLAP
229. COMPACTED SUBSOIL AS A PRESENTIAL FOR BALL TO PREVENT SETTLING
230. 2 X BALL DIA.
231. 3 X BALL DIA.
232. 4" TOPSOIL BED PREPARED AS PER SPECIFICATIONS
233. FINISH GRADE
234. EXISTING SOIL
235. 2" x 3" BALL DIA.
236. 3" MULCH
237. FORT SAUCER WITH 3" CONTINUOUS RIM
238. SPECIFIED PLANTING MIX WATER + TAMP TO REMOVE AIR POCKETS
239. REMOVE TOP 1/3 OF BURLAP
240. COMPACTED SUBSOIL AS A PRESENTIAL FOR BALL TO PREVENT SETTLING
241. 2 X BALL DIA.
242. 3 X BALL DIA.
243. 4" TOPSOIL BED PREPARED AS PER SPECIFICATIONS
244. FINISH GRADE
245. EXISTING SOIL
246. 2" x 3" BALL DIA.
247. 3" MULCH
248. FORT SAUCER WITH 3" CONTINUOUS RIM
249. SPECIFIED PLANTING MIX WATER + TAMP TO REMOVE AIR POCKETS
250. REMOVE TOP 1/3 OF BURLAP
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252. 2 X BALL DIA.
253. 3 X BALL DIA.
254. 4" TOPSOIL BED PREPARED AS PER SPECIFICATIONS
255. FINISH GRADE
256. EXISTING SOIL
257. 2" x 3" BALL DIA.
258. 3" MULCH
259. FORT SAUCER WITH 3" CONTINUOUS RIM
260. SPECIFIED PLANTING MIX WATER + TAMP TO REMOVE AIR POCKETS
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263. 2 X BALL DIA.
264. 3 X BALL DIA.
265. 4" TOPSOIL BED PREPARED AS PER SPECIFICATIONS
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267. EXISTING SOIL
268. 2" x 3" BALL DIA.
269. 3" MULCH
270. FORT SAUCER WITH 3" CONTINUOUS RIM
271. SPECIFIED PLANTING MIX WATER + TAMP TO REMOVE AIR POCKETS
272. REMOVE TOP 1/3 OF BURLAP
273. COMPACTED SUBSOIL AS A PRESENTIAL FOR BALL TO PREVENT SETTLING
274. 2 X BALL DIA.
275. 3 X BALL DIA.
276. 4" TOPSOIL BED PREPARED AS PER SPECIFICATIONS
277. FINISH GRADE
278. EXISTING SOIL
279. 2" x 3" BALL DIA.
280. 3" MULCH
281. FORT SAUCER WITH 3" CONTINUOUS RIM
282. SPECIFIED PLANTING MIX WATER + TAMP TO REMOVE AIR POCKETS
283. REMOVE TOP 1/3 OF BURLAP
284. COMPACTED SUBSOIL AS A PRESENTIAL FOR BALL TO PREVENT SETTLING
285. 2 X BALL DIA.
286. 3 X BALL DIA.
287. 4" TOPSOIL BED PREPARED AS PER SPECIFICATIONS
288. FINISH GRADE
289. EXISTING SOIL
290. 2" x 3" BALL DIA.
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297. 3 X BALL DIA.
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318. 2 X BALL DIA.
319. 3 X BALL DIA.
320. 4" TOPSOIL BED PREPARED AS PER SPECIFICATIONS
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324. 3" MULCH
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328. COMPACTED SUBSOIL AS A PRESENTIAL FOR BALL TO PREVENT SETTLING
329. 2 X BALL DIA.
330. 3 X BALL DIA.
331. 4" TOPSOIL BED PREPARED AS PER SPECIFICATIONS
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351. 2 X BALL DIA.
352. 3 X BALL DIA.
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354. FINISH GRADE
355. EXISTING SOIL
356. 2" x 3" BALL DIA.
357. 3" MULCH
358. FORT SAUCER WITH 3" CONTINUOUS RIM
359. SPECIFIED PLANTING MIX WATER + TAMP TO REMOVE AIR POCKETS
360. REMOVE TOP 1/3 OF BURLAP
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362. 2 X BALL DIA.
363. 3 X BALL DIA.
364. 4" TOPSOIL BED PREPARED AS PER SPECIFICATIONS
365. FINISH GRADE
366. EXISTING SOIL
367. 2" x 3" BALL DIA.
368. 3" MULCH
369. FORT SAUCER WITH 3" CONTINUOUS RIM
370. SPECIFIED PLANTING MIX WATER + TAMP TO REMOVE AIR POCKETS
371. REMOVE TOP 1/3 OF BURLAP
372. COMPACTED SUBSOIL AS A PRESENTIAL FOR BALL TO PREVENT SETTLING
373. 2 X BALL DIA.
374. 3 X BALL DIA.
375. 4" TOPSOIL BED PREPARED AS PER SPECIFICATIONS
376. FINISH GRADE
377. EXISTING SOIL
378. 2" x 3" BALL DIA.
379. 3" MULCH
380. FORT SAUCER WITH 3" CONTINUOUS RIM
381. SPECIFIED PLANTING MIX WATER + TAMP TO REMOVE AIR POCKETS
382. REMOVE TOP 1/3 OF BURLAP
383. COMPACTED SUBSOIL AS A PRESENTIAL FOR BALL TO PREVENT SETTLING
384. 2 X BALL DIA.
385. 3 X BALL DIA.
386. 4" TOPSOIL BED PREPARED AS PER SPECIFICATIONS
387. FINISH GRADE
388. EXISTING SOIL
389. 2" x 3" BALL DIA.
390. 3" MULCH
391. FORT SAUCER WITH 3" CONTINUOUS RIM
392. SPECIFIED PLANTING MIX WATER + TAMP TO REMOVE AIR POCKETS
393. REMOVE TOP 1/3 OF BURLAP
394. COMPACTED SUBSOIL AS A PRESENTIAL FOR BALL TO PREVENT SETTLING
395. 2 X BALL DIA.
396. 3 X BALL DIA.
397. 4" TOPSOIL BED PREPARED AS PER SPECIFICATIONS
398. FINISH GRADE
399. EXISTING SOIL
400. 2" x 3" BALL DIA.
401. 3" MULCH
402. FORT SAUCER WITH 3" CONTINUOUS RIM
403. SPECIFIED PLANTING MIX WATER + TAMP



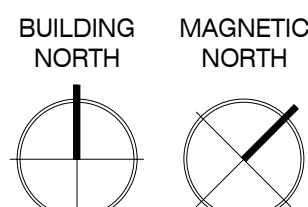


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COMPOSITE PLAN

SCALE: 1/16" = 1'-0"

1



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FAILURE TO OBTAIN AND/OR FOLLOW THE DESIGN
PROFESSIONAL'S GUIDANCE WITH RESPECT TO ANY
ERRORS, OMISSIONS, INCONSISTENCIES, AMBIGUITIES
OR CONFLICTS WHICH ARE ALLEGED.

PROJECT INFORMATION

PROJECT:

BEEHIVE 3D

PROJECT ADDRESS:

LOT 12, KEMP FAIN LANE
KNOXVILLE, TN 37932

PROJECT NO.: 210390

NOTES

MPC NO.: 3-J-22-UR
TTODA NO.: 3-B-22-TOB

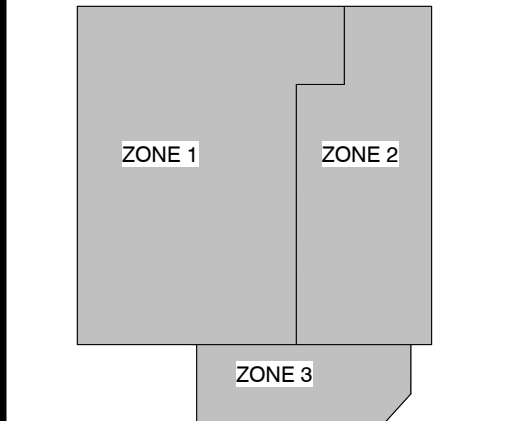
ACTIVE DESIGN PHASE

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DESIGN DEVELOPMENT
CONSTRUCTION BIDDING
CONSTRUCTION DOCUMENTS
AS-BUILT RECORD SET

REVISION INFORMATION

NO. DATE DESCRIPTION

KEY PLAN



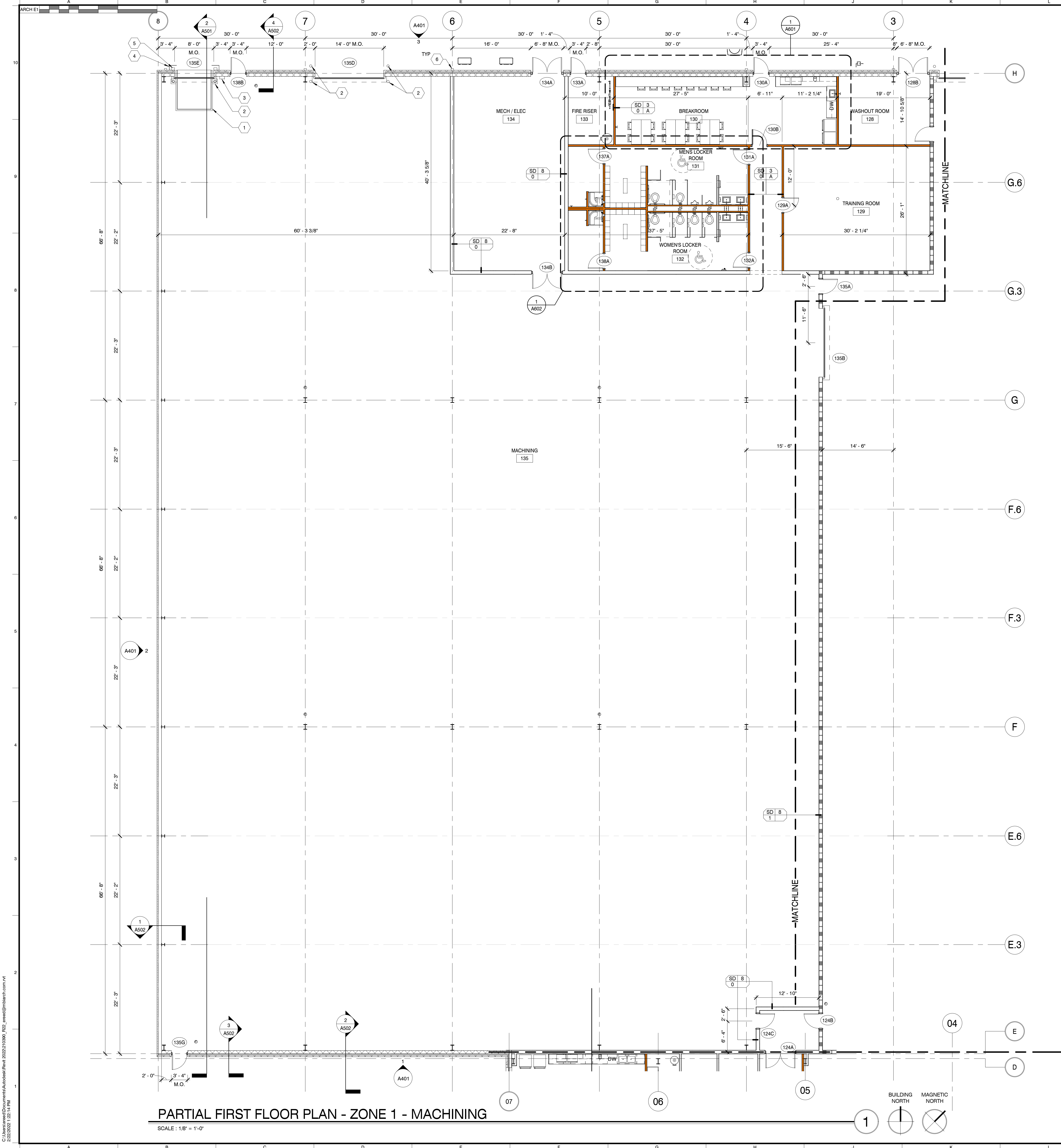
SHEET INFORMATION

SHEET ISSUED: 12/27/2021
DESIGNED BY: EMR
DRAWN BY: LAP
REVIEWED BY: WBS
SHEET TITLE:

FLOOR PLAN - COMPOSITE

SHEET NO.:

A002



WALL LEGEND

- EXTERIOR WALL - BRICK VENEER ON MTL STUD
- EXTERIOR WALL - SPLITFACE BLOCK ON CMU
- EXTERIOR WALL - INSULATED MTL PANEL ON 8" GIRTS
- WALL PARTITION - MTL STUD WALL
- WALL PARTITION - FUTURE WALL BY TENANT
- WALL PARTITION - SOUND BARRIER - MTL STUD WALL
- WALL PARTITION - 1 HOUR - MTL STUD WALL - SEE A003

- BRACE ALL METAL STUD WALLS TO STRUCTURE ABOVE @ 4'-0" O.C. MINIMUM.
- SEE INTERIOR WALL TYPES SHEET ON A0.x FOR MORE INFORMATION
- SEE WALL SECTIONS FOR MORE INFORMATION ON EXTERIOR WALL CONSTRUCTION
- INTERIOR WALLS ARE TYPE SD-3-A UNLESS OTHERWISE NOTED
- INTERIOR FURRINGS ARE TYPE F-3-0 UNLESS OTHERWISE NOTED

WALL TYPE TAG

- WALL TYPE ID
- CORE THICKNESS
- FIRE RATING
- ADDITIONAL COMPONENTS

OPAQUE THERMAL ENVELOPE REQ'S

- ROOFS**
INSULATION ENTIRELY ABOVE DECK
METAL BUILDING
R-25CI
R19 + R19 LS
- WALLS, ABOVE GRADE**
MASS
METAL BUILDING
R-9.5CI
R-13 + R-13CI / U-0.052
- WALLS, BELOW GRADE**
BELOW GRADE WALL (4)
UNHEATED SLAB
R-7.5CI
R-10 FOR 24 BELOW
- OPAQUE DOORS**
SWINGING
ROLL-UP OR SLIDING
U-0.61
R-4.75

FOR SL: 1 INCH = 25.4 MM. CI = CONTINUOUS INSULATION. NR = NO REQUIREMENT.

LS = LINER SYSTEM—A CONTINUOUS MEMBRANE INSTALLED BELOW THE PURLINS AND UNINTERRUPTED BY FRAMING MEMBERS. UNCOMPRESSED, UNFACED INSULATION RESTS ON TOP OF THE MEMBRANE BETWEEN THE PURLINS.

(a) ASSEMBLY DESCRIPTIONS CAN BE FOUND IN ANSI/ASHRAE/IESNA APPENDIX A

(b) WHERE USING R-VALUE COMPLIANCE METHOD, A THERMAL SPACER BLOCK SHALL BE PROVIDED, OTHERWISE USE THE U-FACTOR COMPLIANCE METHOD IN TABLE C402.1.2.

(c) R-5.7CI IS ALLOWED TO BE SUBSTITUTED WITH CONCRETE BLOCK WALLS COMPLYING WITH ASTM C 90, UNGROUTED OR PARTIALLY GROUTED AT 32 INCHES OR LESS ON CENTER VERTICALLY AND 48 INCHES OR LESS ON CENTER HORIZONTALLY, WITH UNGROUTED CORES FILLED WITH MATERIALS HAVING A MAXIMUM THERMAL CONDUCTIVITY OF 0.44 BTU-IN/H-F2 °F.

(d) WHERE HEATED SLABS ARE BELOW GRADE, BELOW-GRADE WALLS SHALL COMPLY WITH THE EXTERIOR INSULATION REQUIREMENTS FOR HEATED SLABS.

FLOOR PLAN KEY NOTES:

- | # | DESCRIPTION |
|---|---------------------------------------------------------------------------|
| 1 | 7' x 8' HYDRAULIC DOCK LEVELER W/ UNDER LEVELER SEAL / 50,000 LB CAPACITY |
| 2 | 6" Ø MTL PIPE BOLLARD / PAINT |
| 3 | DOCK EQUIPMENT CONTROL PANEL |
| 4 | DOCK SHELTER |
| 5 | DOCK BUMPER |
| 6 | PREFINISHED METAL DOWNSPOUT BY PEMB |

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PROJECT INFORMATION

PROJECT:

BEEHIVE 3D

PROJECT ADDRESS:

LOT 12, KEMP FAIN LANE
KNOXVILLE, TN 37932
PROJECT NO.: 210390

NOTES

MPC NO.: 3-J-22-UR
TTCDN NO.: 3-B-22-TOB

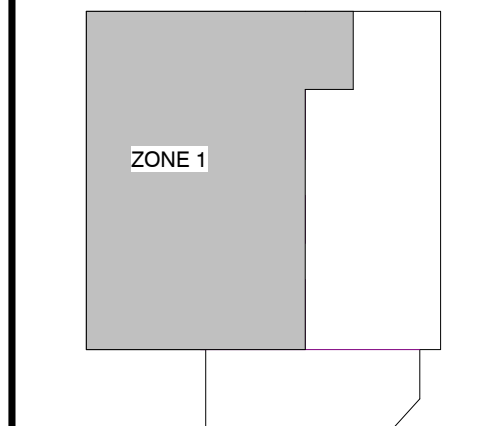
ACTIVE DESIGN PHASE

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- DESIGN DEVELOPMENT
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- CONSTRUCTION DOCUMENTS
- AS-BUILT RECORD SET

REVISION INFORMATION

NO. DATE DESCRIPTION

KEY PLAN



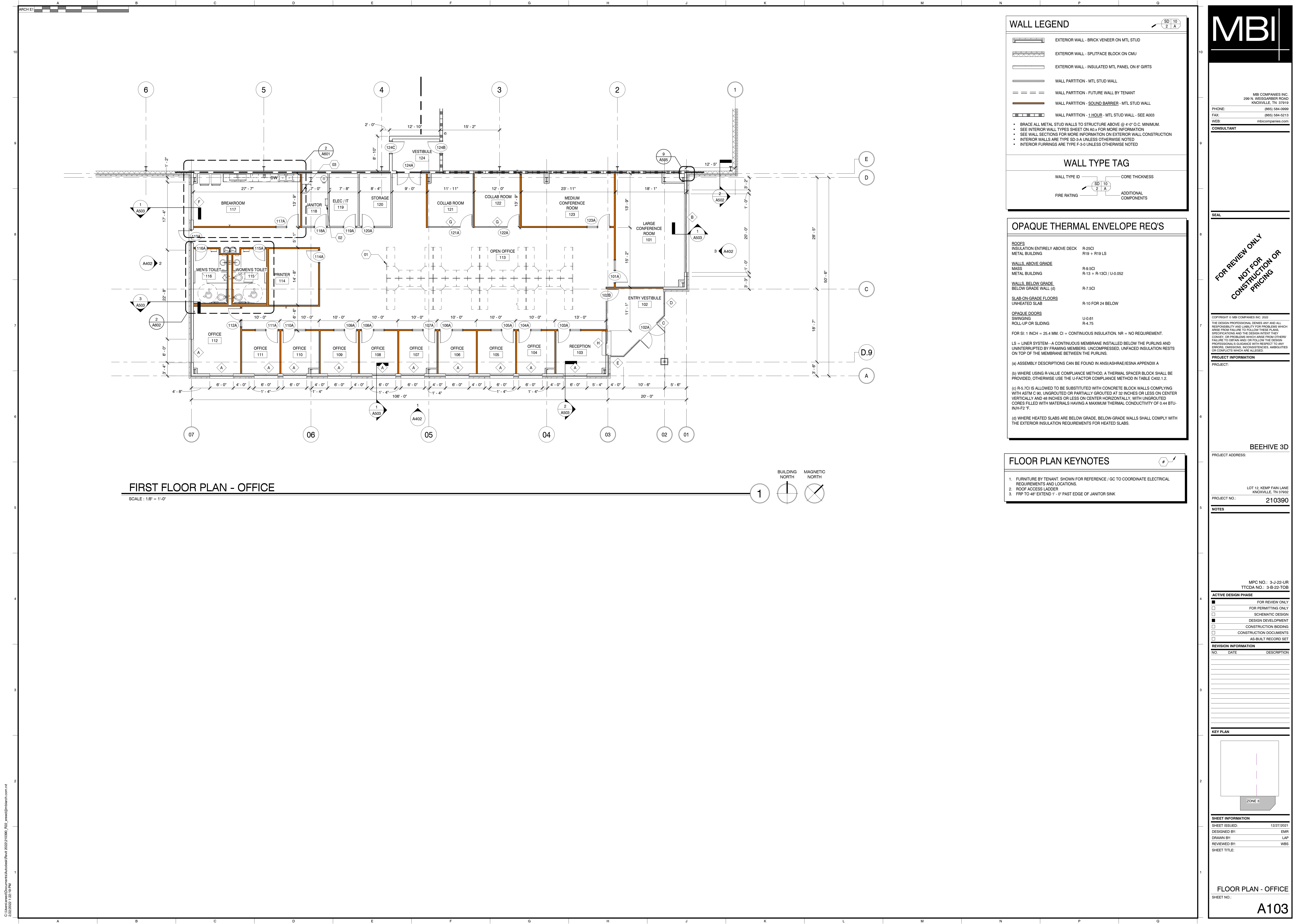
SHEET INFORMATION

SHEET ISSUED: 12/27/2021
DESIGNED BY: EMR
DRAWN BY: LAP
REVIEWED BY: WBS
SHEET TITLE:

FLOOR PLAN - ZONE 1 - MACHINING

SHEET NO.:

A101



FIRST FLOOR PLAN - OFFICE

SCALE : 1/8" = 1'-0"

WALL LEGEND

- EXTERIOR WALL - BRICK VENEER ON MTL STUD
- EXTERIOR WALL - SPLITFACE BLOCK ON CMU
- EXTERIOR WALL - INSULATED MTL PANEL ON 8" GIRTS
- WALL PARTITION - MTL STUD WALL
- WALL PARTITION - FUTURE WALL BY TENANT
- WALL PARTITION - SOUND BARRIER - MTL STUD WALL
- WALL PARTITION - 1 HOUR - MTL STUD WALL - SEE A003
- BRACE ALL METAL STUD WALLS TO STRUCTURE ABOVE @ 4'-0" O.C. MINIMUM.
- SEE INTERIOR WALL TYPES SHEET ON A0.x FOR MORE INFORMATION
- SEE WALL SECTIONS FOR MORE INFORMATION ON EXTERIOR WALL CONSTRUCTION
- INTERIOR WALLS ARE TYPE S0-3-4 UNLESS OTHERWISE NOTED
- INTERIOR FURRINGS ARE TYPE F-3-0 UNLESS OTHERWISE NOTED

WALL TYPE TAG

WALL TYPE ID CORE THICKNESS
FIRE RATING ADDITIONAL COMPONENTS

OPAQUE THERMAL ENVELOPE REQ'S

- ROOFS**
INSULATION ENTIRELY ABOVE DECK R-25CI
METAL BUILDING R19 + R19 LS
- WALLS, ABOVE GRADE**
MASS R-9.5CI
METAL BUILDING R-13 + R-13CI / U-0.052
- WALLS, BELOW GRADE**
BELOW GRADE WALL (4) R-7.5CI
- SLAB-ON-GRADE FLOORS**
UNHEATED SLAB R-10 FOR 24 BELOW
- OPAQUE DOORS**
SWINGING U-0.61
ROLL-UP OR SLIDING R-4.75
- FOR Sl: 1 INCH = 25.4 MM. CI = CONTINUOUS INSULATION. NR = NO REQUIREMENT.
- LS = LINER SYSTEM—A CONTINUOUS MEMBRANE INSTALLED BELOW THE PURLINS AND UNINTERRUPTED BY FRAMING MEMBERS. UNCOMPRESSED, UNFACED INSULATION RESTS ON TOP OF THE MEMBRANE BETWEEN THE PURLINS.
- (a) ASSEMBLY DESCRIPTIONS CAN BE FOUND IN ANSI/ASHRAE/IESNA APPENDIX A
- (b) WHERE USING R-VALUE COMPLIANCE METHOD, A THERMAL SPACER BLOCK SHALL BE PROVIDED, OTHERWISE USE THE U-FACTOR COMPLIANCE METHOD IN TABLE C402.1.2.
- (c) R-5.7CI IS ALLOWED TO BE SUBSTITUTED WITH CONCRETE BLOCK WALLS COMPLYING WITH ASTM C 90, UNGROUTED OR PARTIALLY GROUTED AT 32 INCHES OR LESS ON CENTER VERTICALLY AND 48 INCHES OR LESS ON CENTER HORIZONTALLY, WITH UNGROUTED CORES FILLED WITH MATERIALS HAVING A MAXIMUM THERMAL CONDUCTIVITY OF 0.44 BTU-IN-H-F2 F.
- (d) WHERE HEATED SLABS ARE BELOW GRADE, BELOW-GRADE WALLS SHALL COMPLY WITH THE EXTERIOR INSULATION REQUIREMENTS FOR HEATED SLABS.

FLOOR PLAN KEYNOTES

- FURNITURE BY TENANT, SHOWN FOR REFERENCE / GC TO COORDINATE ELECTRICAL REQUIREMENTS AND LOCATIONS.
- ROOF ACCESS LADDER
- FRP TO 48" EXTEND 1' - 0" PAST EDGE OF JANITOR SINK

MBI

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PROFESSIONALS GUIDANCE WITH RESPECT TO ANY
SPRINK, DIMENSIONS, INCONSISTENCIES, AMBIGUITIES
OR CONFLICTS WHICH ARE ALLEGED.

PROJECT INFORMATION

PROJECT:

BEEHIVE 3D

PROJECT ADDRESS:

LOT 12, KEMP FAIN LANE
KNOXVILLE, TN 37932
PROJECT NO.: 210390

NOTES

MPC NO.: 3-J-22-UR
TTODA NO.: 3-B-22-TOB

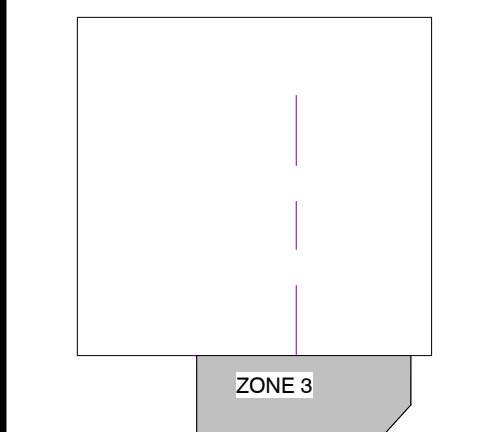
ACTIVE DESIGN PHASE

- FOR REVIEW ONLY
- FOR PERMITTING ONLY
- SCHEMATIC DESIGN
- DESIGN DEVELOPMENT
- CONSTRUCTION BIDDING
- CONSTRUCTION DOCUMENTS
- AS-BUILT RECORD SET

REVISION INFORMATION

NO.	DATE	DESCRIPTION

KEY PLAN



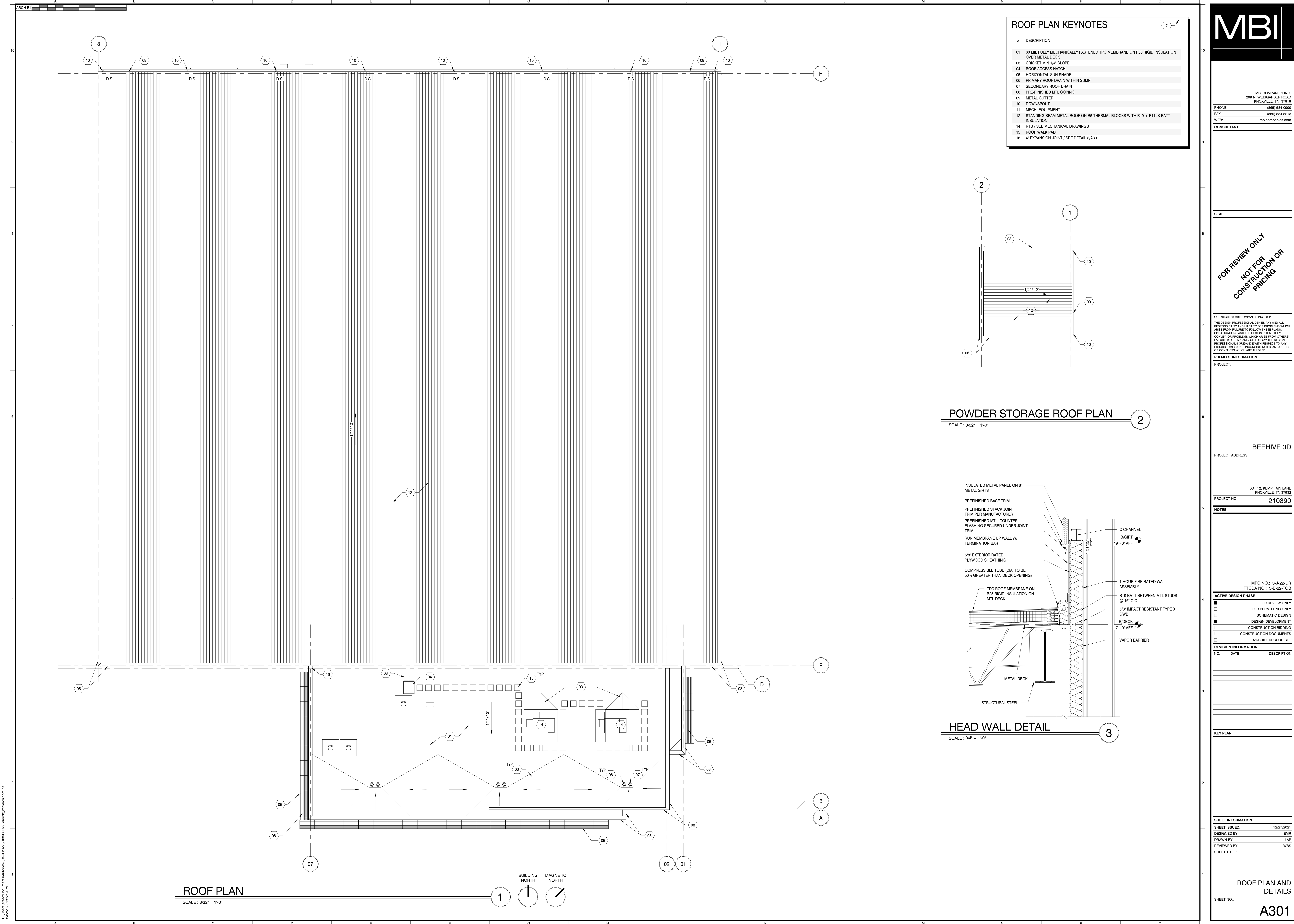
SHEET INFORMATION

SHEET ISSUED: 12/27/2021
DESIGNED BY: EMR
DRAWN BY: LAP
REVIEWED BY: WBS
SHEET TITLE:

FLOOR PLAN - OFFICE

SHEET NO.:

A103

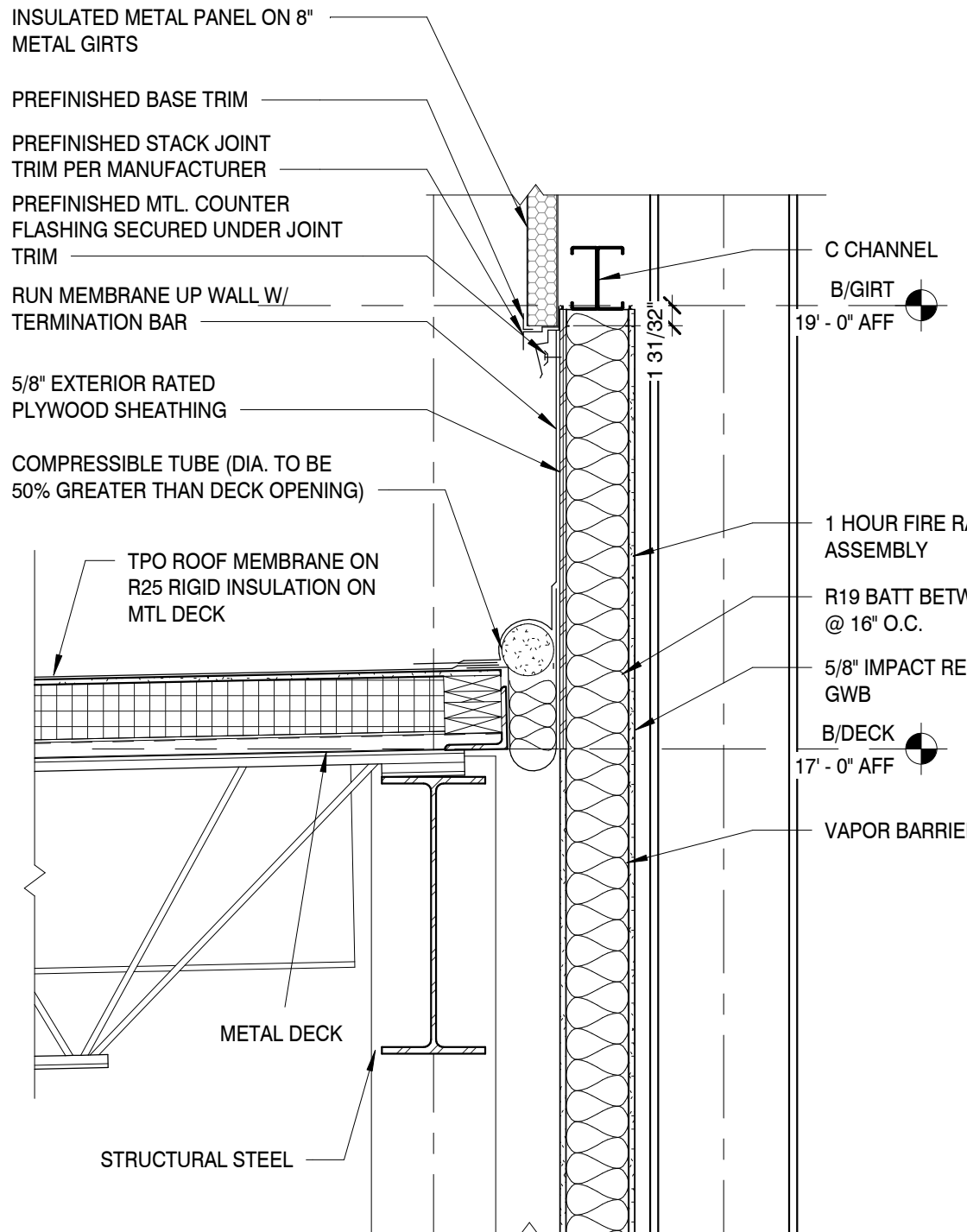


ROOF PLAN KEYNOTES

#	DESCRIPTION
01	60 MIL FULLY MECHANICALLY FASTENED TPO MEMBRANE ON R30 RIGID INSULATION OVER METAL DECK
03	CRICKET MIN 1/4" SLOPE
04	ROOF ACCESS HATCH
05	HORIZONTAL SUN SHADE
06	PRIMARY ROOF DRAIN WITHIN SUMP
07	SECONDARY ROOF DRAIN
08	PRE-FINISHED MTL COPING
09	METAL GUTTER
10	DOWNSPOUT
11	MECH. EQUIPMENT
12	STANDING SEAM METAL ROOF ON R5 THERMAL BLOCKS WITH R19 + R11LS BATT INSULATION
14	RTU / SEE MECHANICAL DRAWINGS
15	ROOF WALK PAD
16	4" EXPANSION JOINT / SEE DETAIL 3/A301

POWDER STORAGE ROOF PLAN

SCALE : 3/32" = 1'-0"



HEAD WALL DETAIL

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

ROOF PLAN

SCALE : 3/32" = 1'-0"

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PROJECT INFORMATION

PROJECT:

BEEHIVE 3D

PROJECT ADDRESS:

LOT 12, KEMP FAIR LANE
KNOXVILLE, TN 37932
PROJECT NO.: 210390

NOTES

MPC NO.: 3-J-22-UR
TTCDN NO.: 3-B-22-TOB

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REVISION INFORMATION

NO.	DATE	DESCRIPTION

KEY PLAN

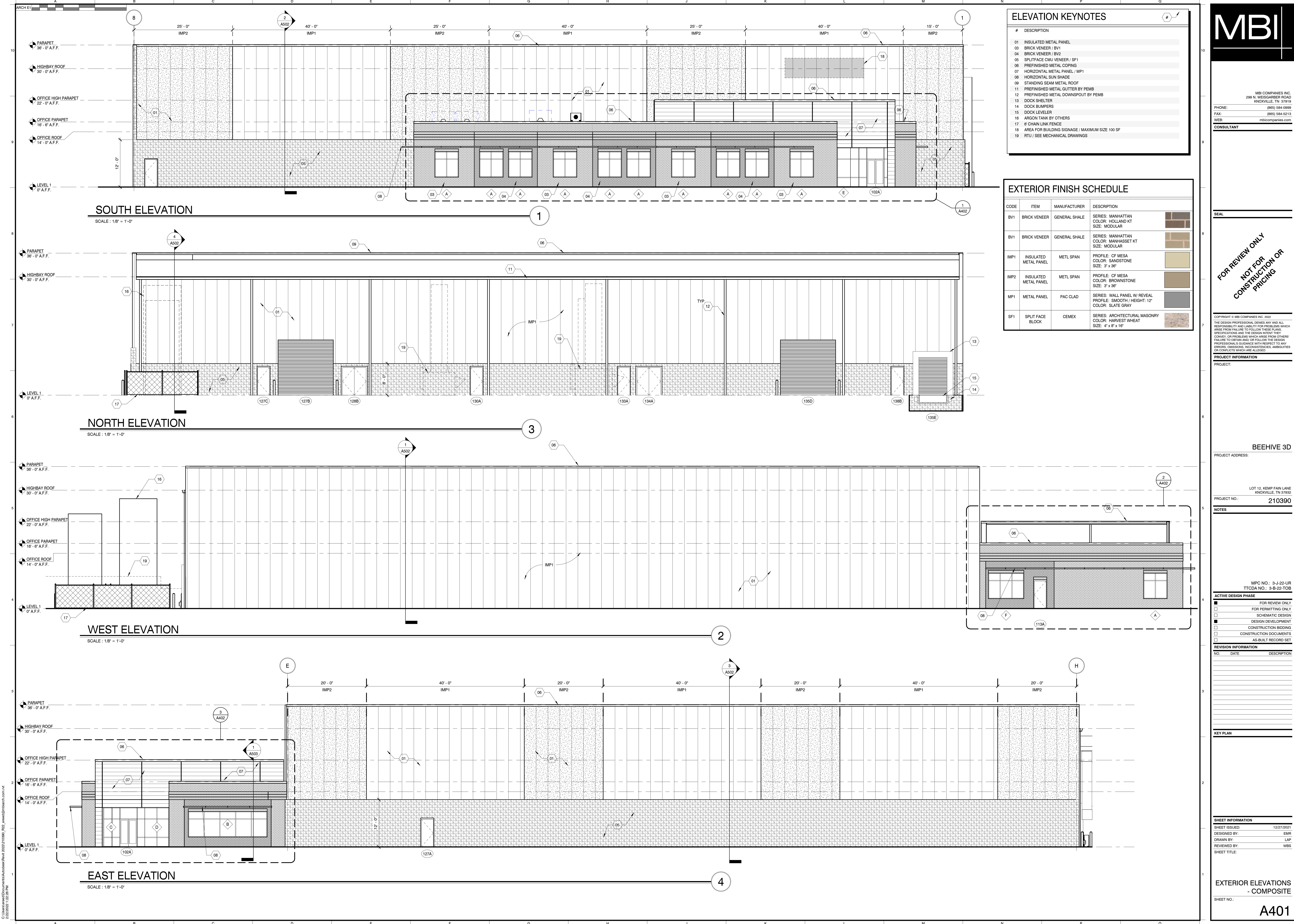
SHEET INFORMATION

SHEET ISSUED:	12/27/2021
DESIGNED BY:	EMR
DRAWN BY:	LAP
REVIEWED BY:	WBS
SHEET TITLE:	

ROOF PLAN AND
DETAILS

SHEET NO.:

A301



ELEVATION KEYNOTES

#	DESCRIPTION
01	INSULATED METAL PANEL
03	BRICK VENEER / BV1
04	BRICK VENEER / BV2
05	SPLITFACE CMU / VENEER / SF1
06	PREFINISHED METAL COPING
07	HORIZONTAL METAL PANEL / MP1
08	HORIZONTAL SUN SHADE
09	STANDING SEAM METAL ROOF
11	PREFINISHED METAL GUTTER BY PEMB
12	PREFINISHED METAL DOWNSPOUT BY PEMB
13	DOCK SHELTER
14	DOCK BUMPER
15	DOCK LEVELER
16	ARGON TANK BY OTHERS
17	CHAIN LINK FENCE
18	AREA FOR BUILDING SIGNAGE / MAXIMUM SIZE 100 SF
19	RTU / SEE MECHANICAL DRAWINGS

EXTERIOR FINISH SCHEDULE

CODE	ITEM	MANUFACTURER	DESCRIPTION	
BV1	BRICK VENEER	GENERAL SHALE	SERIES: MANHATTAN COLOR: HOLLAND KT SIZE: MODULAR	
BV1	BRICK VENEER	GENERAL SHALE	SERIES: MANHATTAN COLOR: MANHASSET KT SIZE: MODULAR	
IMP1	INSULATED METAL PANEL	METL SPAN	PROFILE: CF MESA COLOR: SANDSTONE SIZE: 3' x 36"	
IMP2	INSULATED METAL PANEL	METL SPAN	PROFILE: CF MESA COLOR: BROWNSTONE SIZE: 3' x 36"	
MP1	METAL PANEL	PAC CLAD	SERIES: WALL PANEL W/ REVEAL PROFILE: SMOOTH / HEIGHT: 12" COLOR: SLATE GRAY	
SF1	SPLIT FACE BLOCK	CEMEX	SERIES: ARCHITECTURAL MASONRY COLOR: HARVEST WHEAT SIZE: 4' x 8' x 16"	

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PROJECT INFORMATION

PROJECT:

BEEHIVE 3D

PROJECT ADDRESS:

LOT 12, KEMP FAIN LANE
KNOXVILLE, TN 37932

PROJECT NO.: 210390

NOTES

MPC NO.: 3-J-22-UR
TTCD NO.: 3-B-22-TOB

ACTIVE DESIGN PHASE

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REVISION INFORMATION

NO.	DATE	DESCRIPTION

KEY PLAN







SHEET INFORMATION

SHEET ISSUED:	12/27/2021
DESIGNED BY:	EMR
DRAWN BY:	LAP
REVIEWED BY:	WBS
SHEET TITLE:	

EXTERIOR ELEVATIONS
- COMPOSITE

SHEET NO.:

A401

EXTERIOR FINISH SCHEDULE			
CODE	ITEM	MANUFACTURER	DESCRIPTION
BV1	BRICK VENEER	GENERAL SHALE	SERIES: MANHATTAN COLOR: HOLLAND CL SIZE: MODULAR 
BV1	BRICK VENEER	GENERAL SHALE	SERIES: MANHATTAN COLOR: MANHASSET KT SIZE: MODULAR 
IMP1	INSULATED METAL PANEL	METL SPAN	PROFILE: CF MESA COLORS: SANDSTONE SIZE: 3" x 36" 
IMP2	INSULATED METAL PANEL	METL SPAN	PROFILE: CF MESA COLOR: BROWNSTONE SIZE: 3" x 36" 
MP1	METAL PANEL	PAC CLAD	SERIES: WALL PANEL W/ REVEAL PROFILE: SMOOTH HEIGHT: 12" COLOR: SLATE GRAY 
SF1	SPLIT FACE BLOCK	CEMEX	SERIES: ARCHITECTURAL MASONRY COLOR: HARVEST WHEAT SIZE: 4" x 8" x 16" 

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PROJECT:

PROJECT ADDRESS: _____

LOT 12, KEMP FAIN LANE
KNOXVILLE, TN 37932

PROJECT NO.: 210390

NOTES

MPC NO.: 3-J-22-UR
TTCDA NO.: 3-B-22-TOR

ACTIVE DESIGN PHASE

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|-------------------------------------|------------------------|
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| <input type="checkbox"/> | SCHEMATIC DESIGN |
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REVISION INFORMATION

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KEY PLAN

SHEET INFORMATION

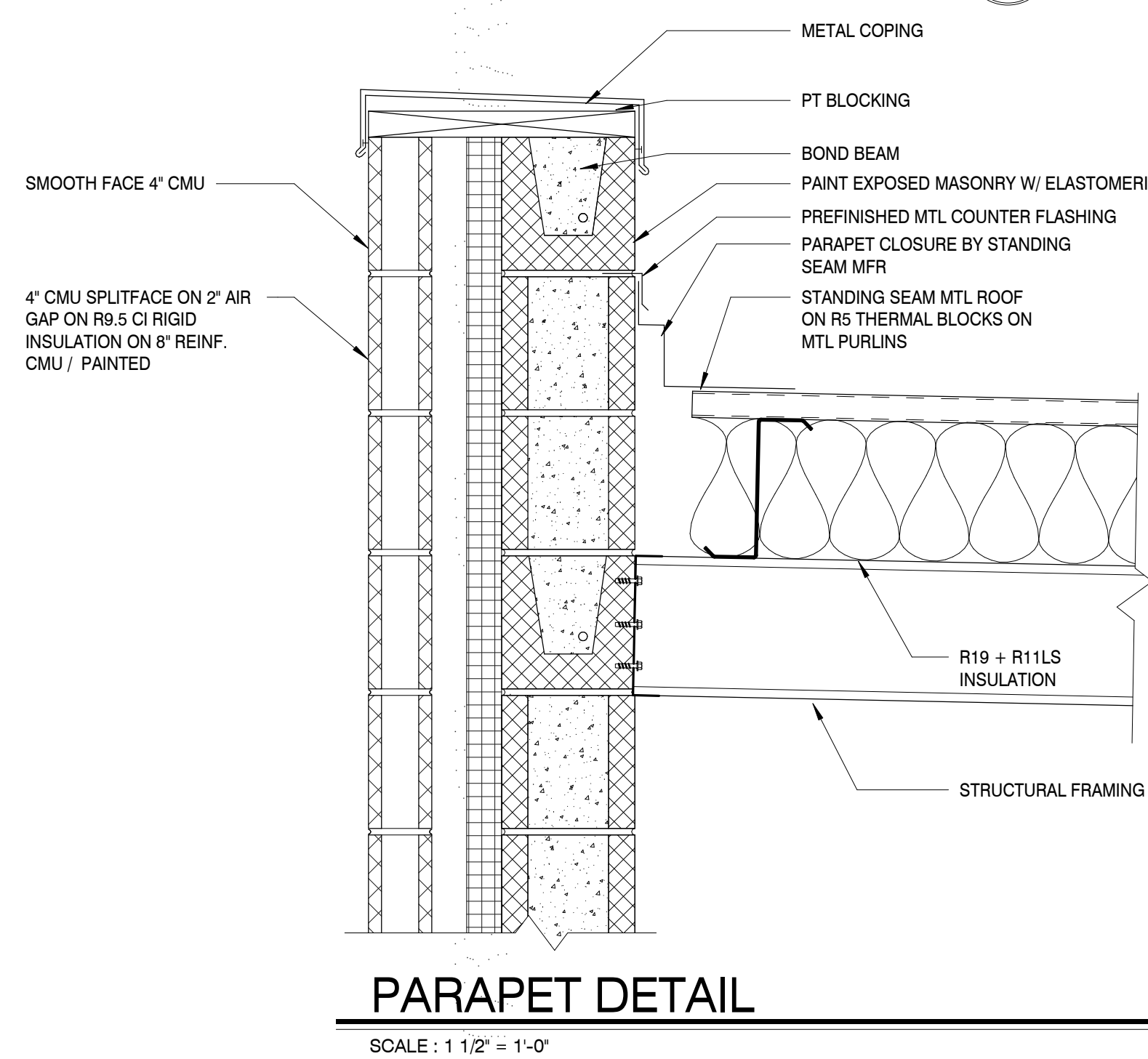
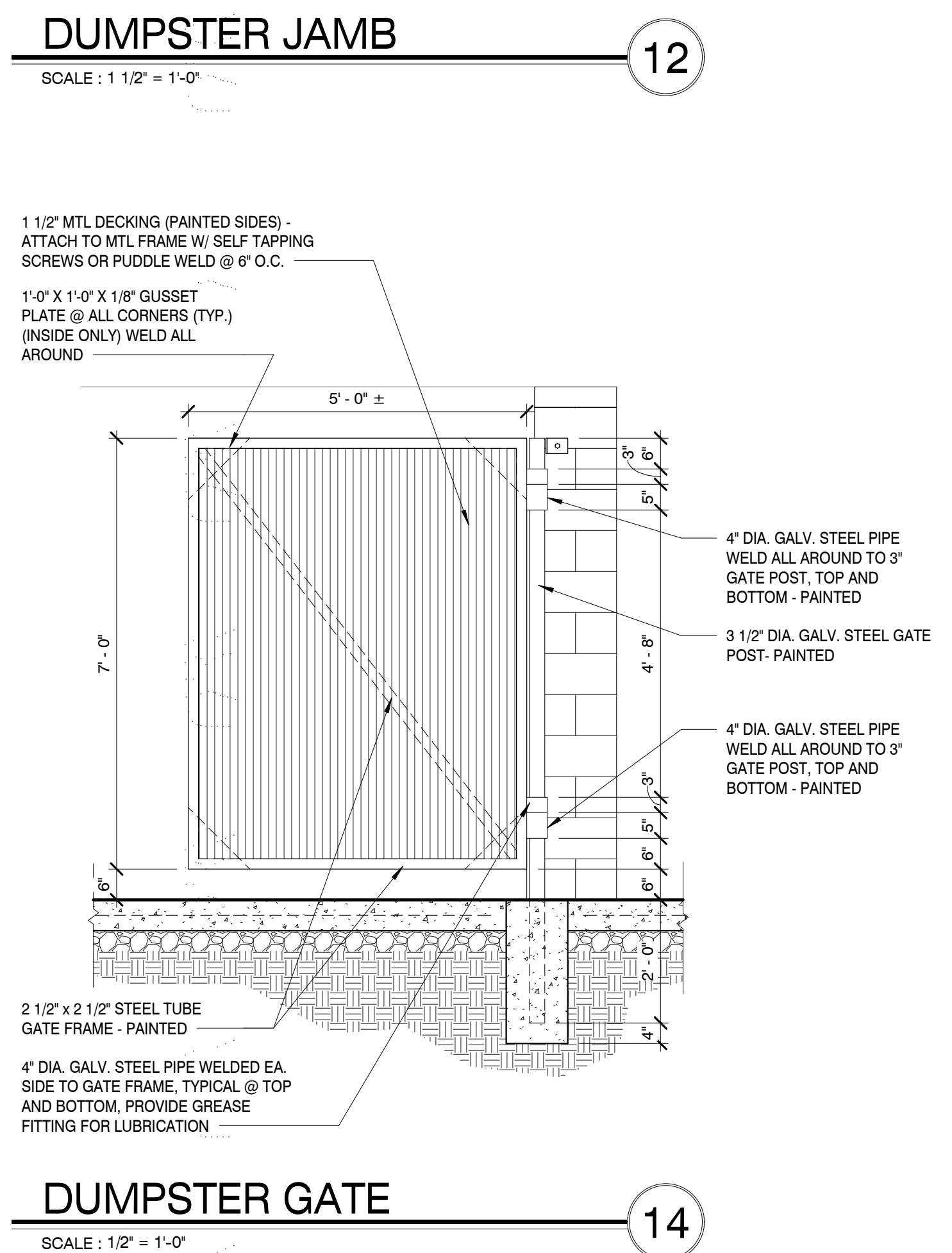
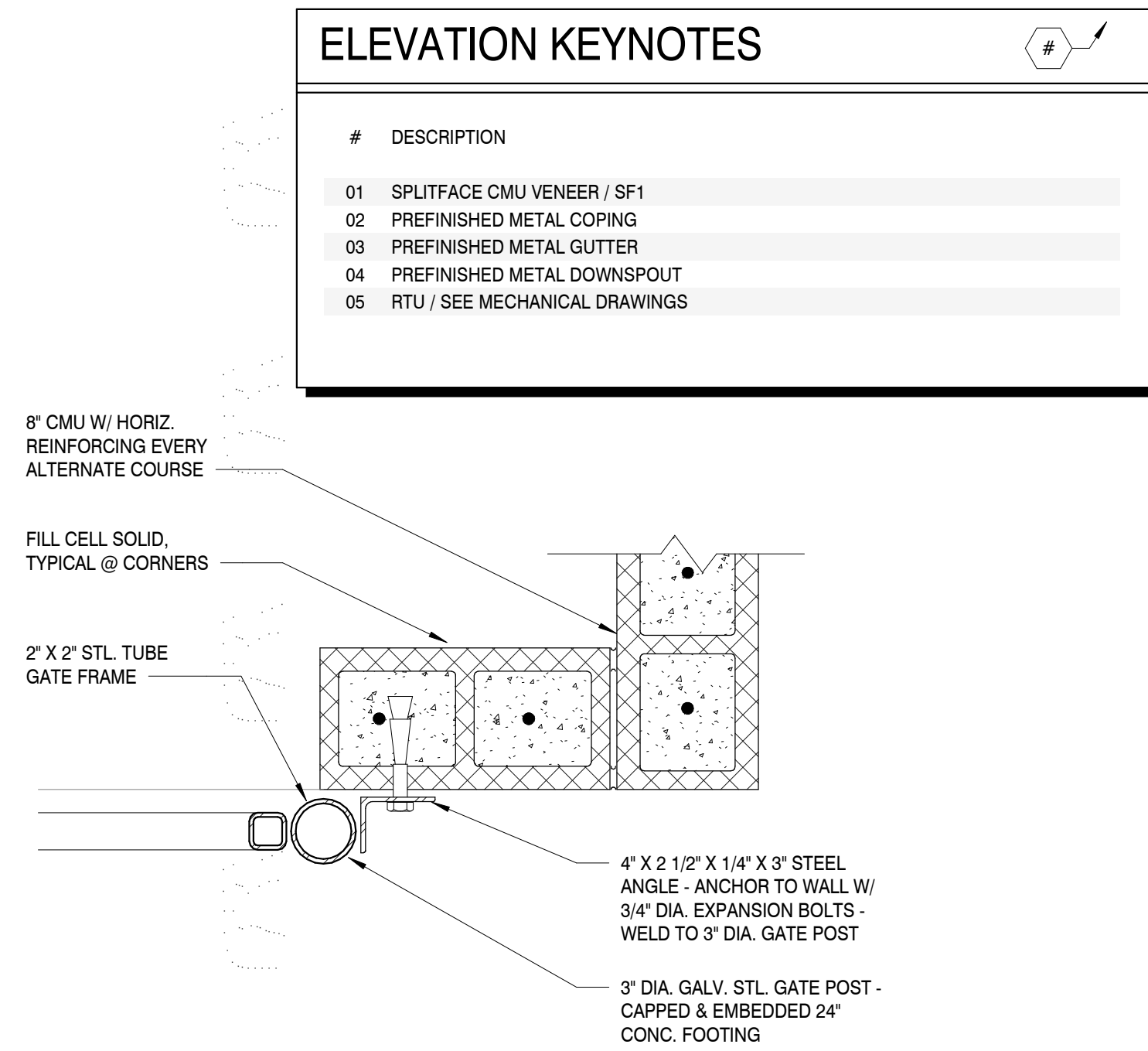
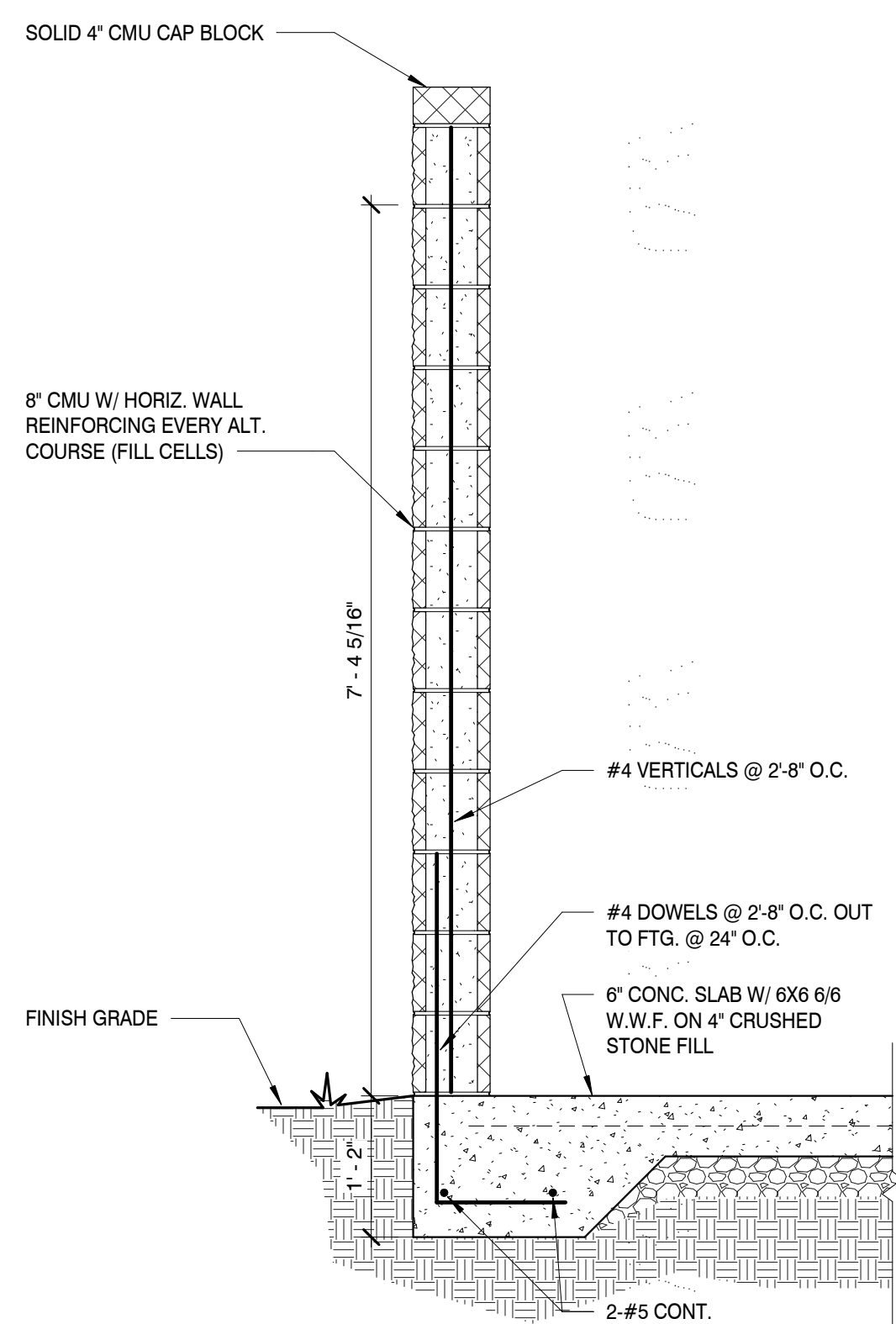
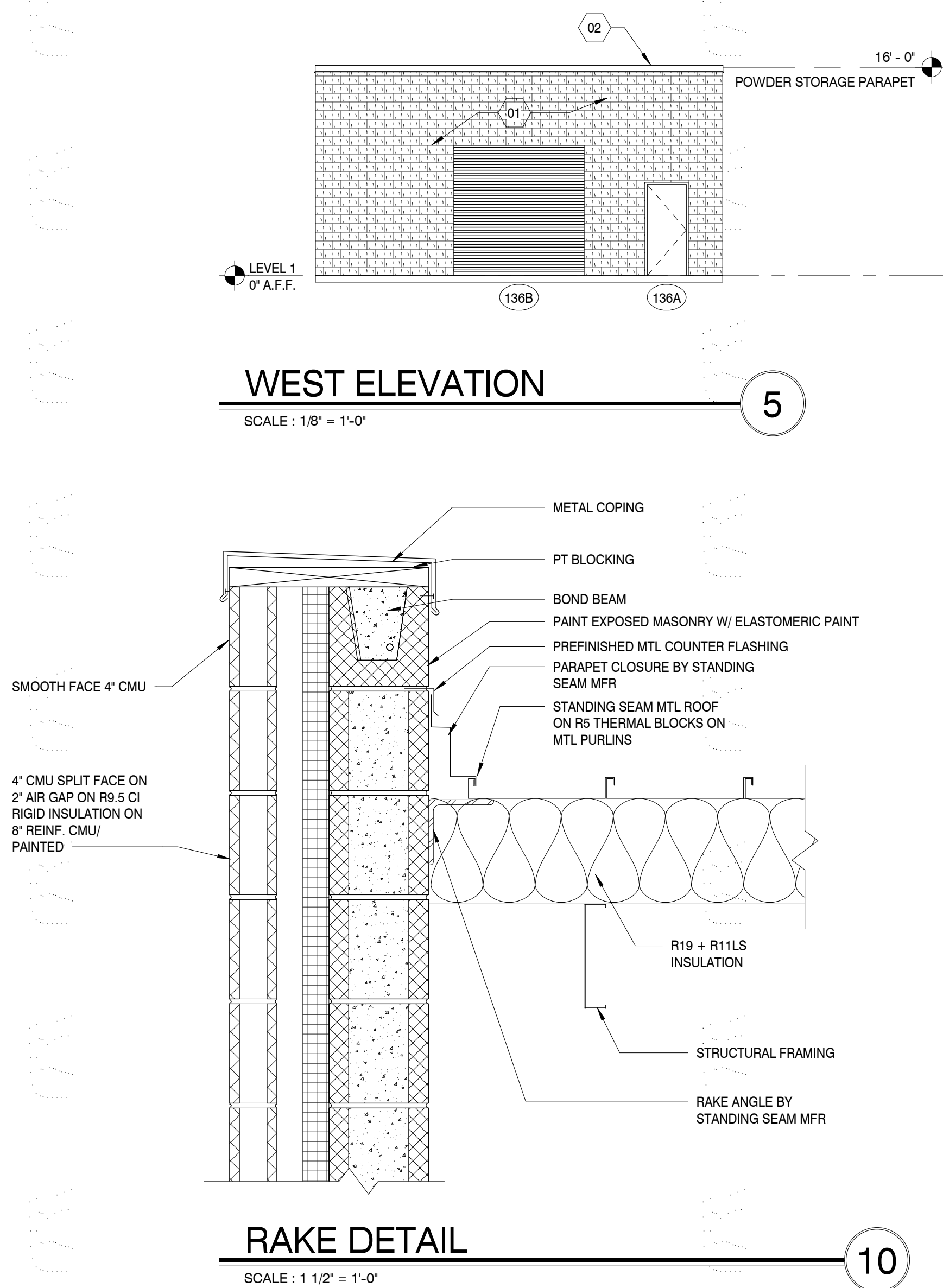
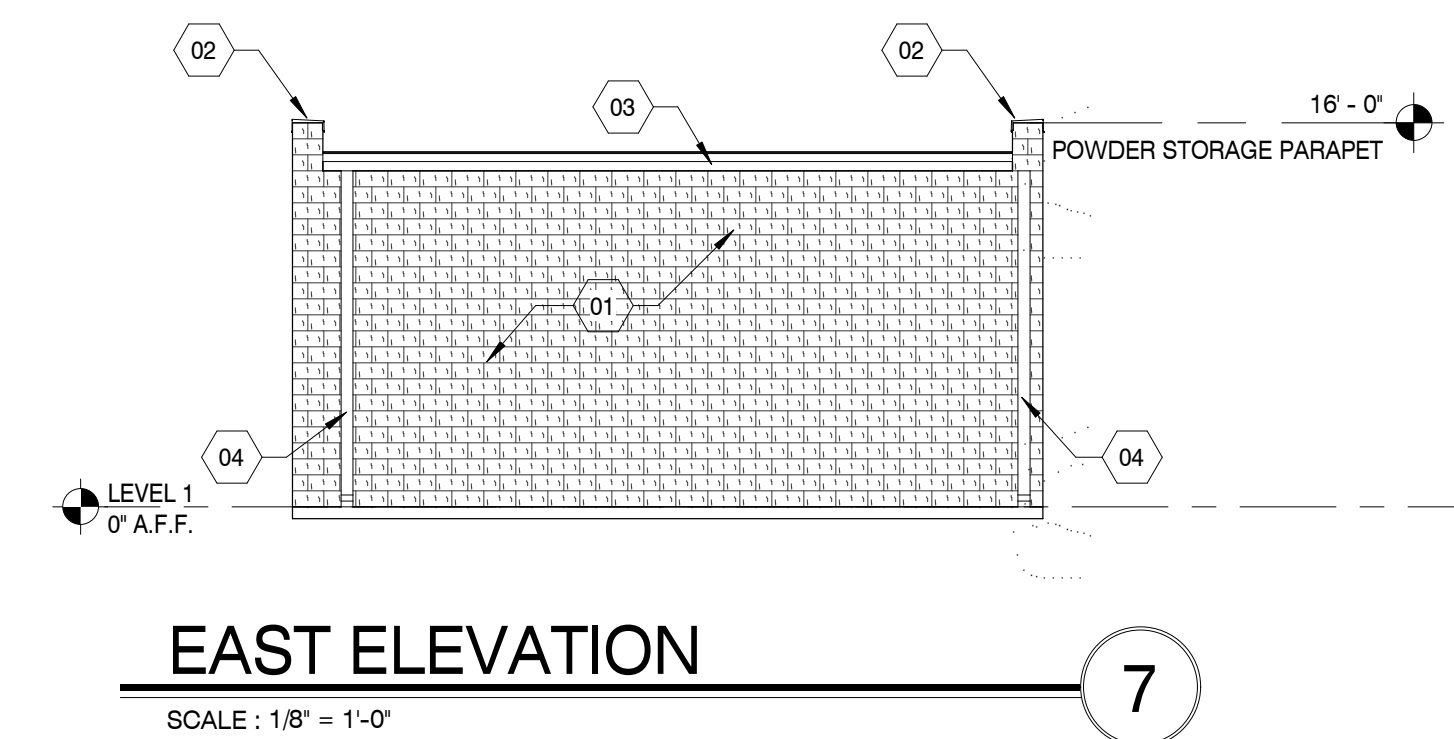
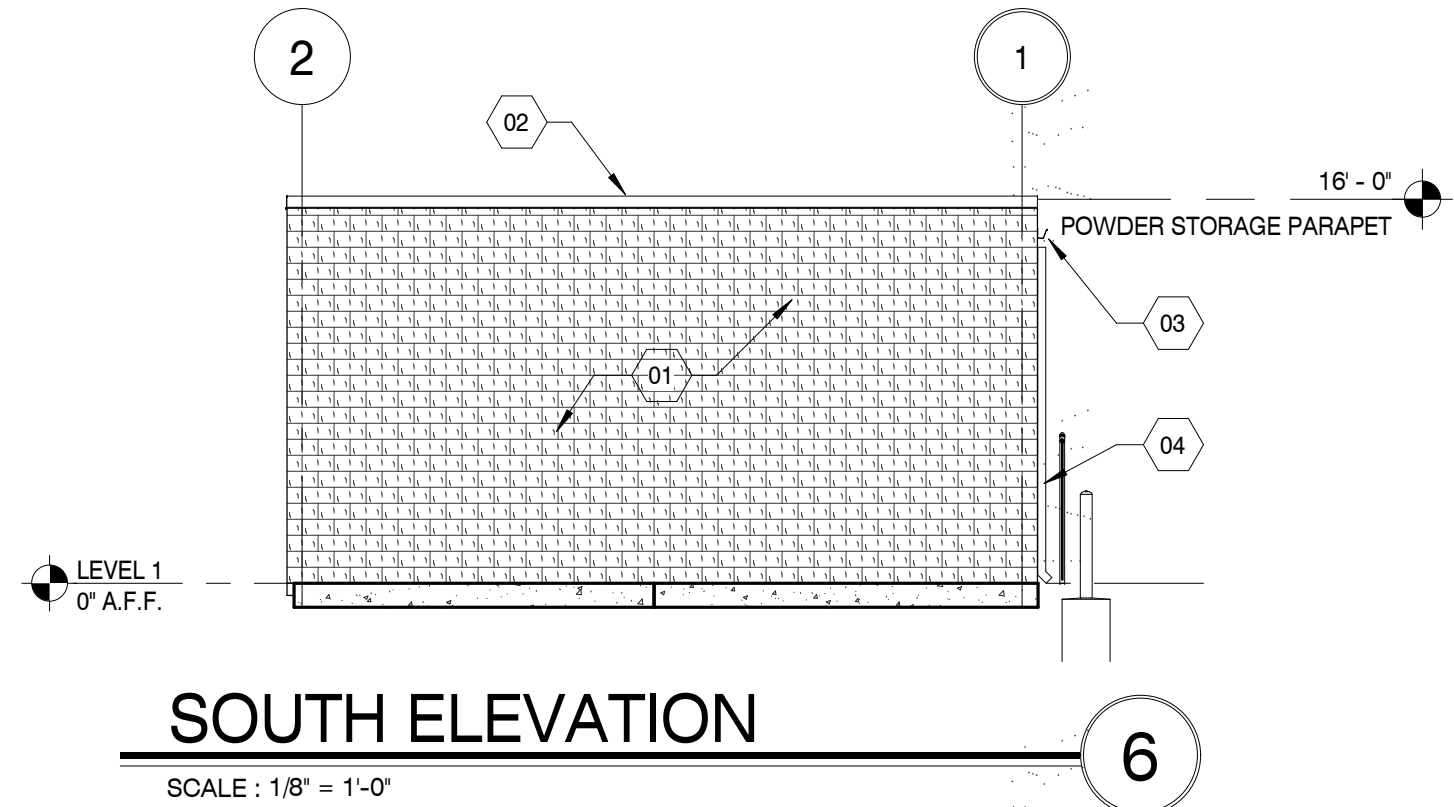
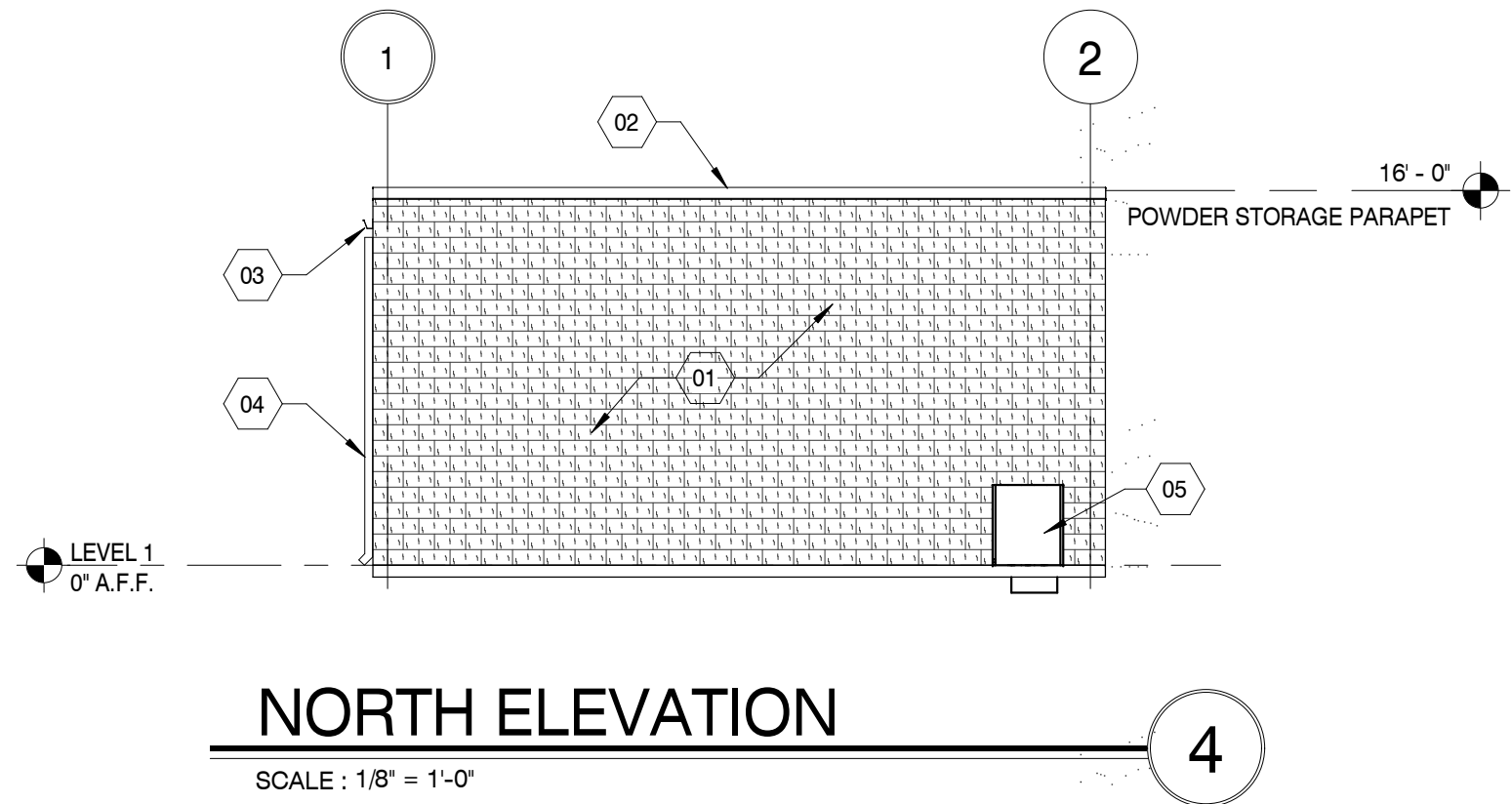
SHEET ISSUED:	12/27/2021
DESIGNED BY:	EMR
DRAWN BY:	LAP
REVIEWED BY:	WBS
SHEET TITLE:	

EXTERIOR OFFICE
ELEVATIONS

SHEET NO.:

A402



A506

ELECTRICAL SITE PLAN

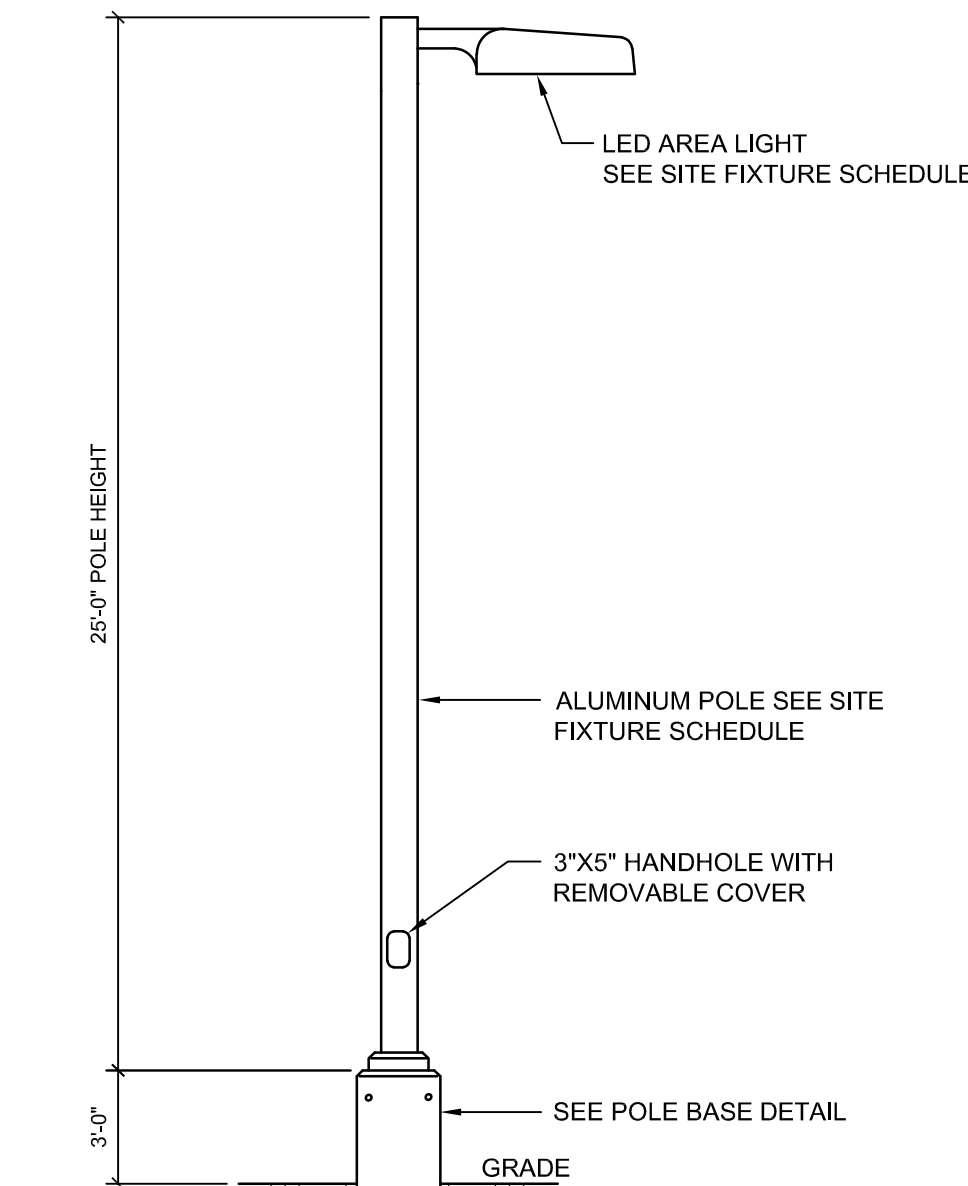
SCALE: 1" = 40'-0"

SHEET NOTES:

1. SEE SHEET E001 FOR ELECTRICAL LEGEND AND GENERAL NOTES.
2. MOUNT LIGHT FIXTURES SO THE LIGHT IS PROJECTED IN THE SAME DIRECTION AS INDICATED BY THE ARROWS ON THIS SHEET.
3. ALL SITE POLE LIGHTING AND WALLPACKS TO BE CONTROLLED VIA WIRELESS SYSTEM WITH ASTRONOMICAL TIMECLOCK. WIRELESS CONTROL SYSTEM SHALL BE LOCATED IN ELECTRICAL/IT ROOM 119 AND ANTENNA(S) LOCATED ALONG BUILDING EXTERIOR TO PROVIDE FULL FIXTURE COMMUNICATION AND CONTROL. FIXTURE MOTION SENSORS SHALL BE GROUPED TO WHERE ALL FIXTURES GO TO FULL BRIGHTNESS UPON MOTION DETECTION AT ANY FIXTURE. WHEN MOTION IS NOT DETECTED, FIXTURES SHALL BE PROGRAMMED TO A SETBACK OF 70% OF FULL BRIGHTNESS DURING TIMES REQUIRED BY IECC 2018 C405.2.6.3. FIXTURE AMBIENT SENSORS SHALL BE GROUPED TO WHERE FIXTURES TURN ON/OFF AT THE SAME TIME BASED ON LOW LIGHT CONDITIONS AT ANY ONE AMBIENT SENSOR. FIXTURE CONTROLS FOR TIME OF DAY AND MOTION DETECTION TIME SHALL BE PER IECC 2018 C405.2.6.3 & C405.2.6.4.

KEYED NOTES:

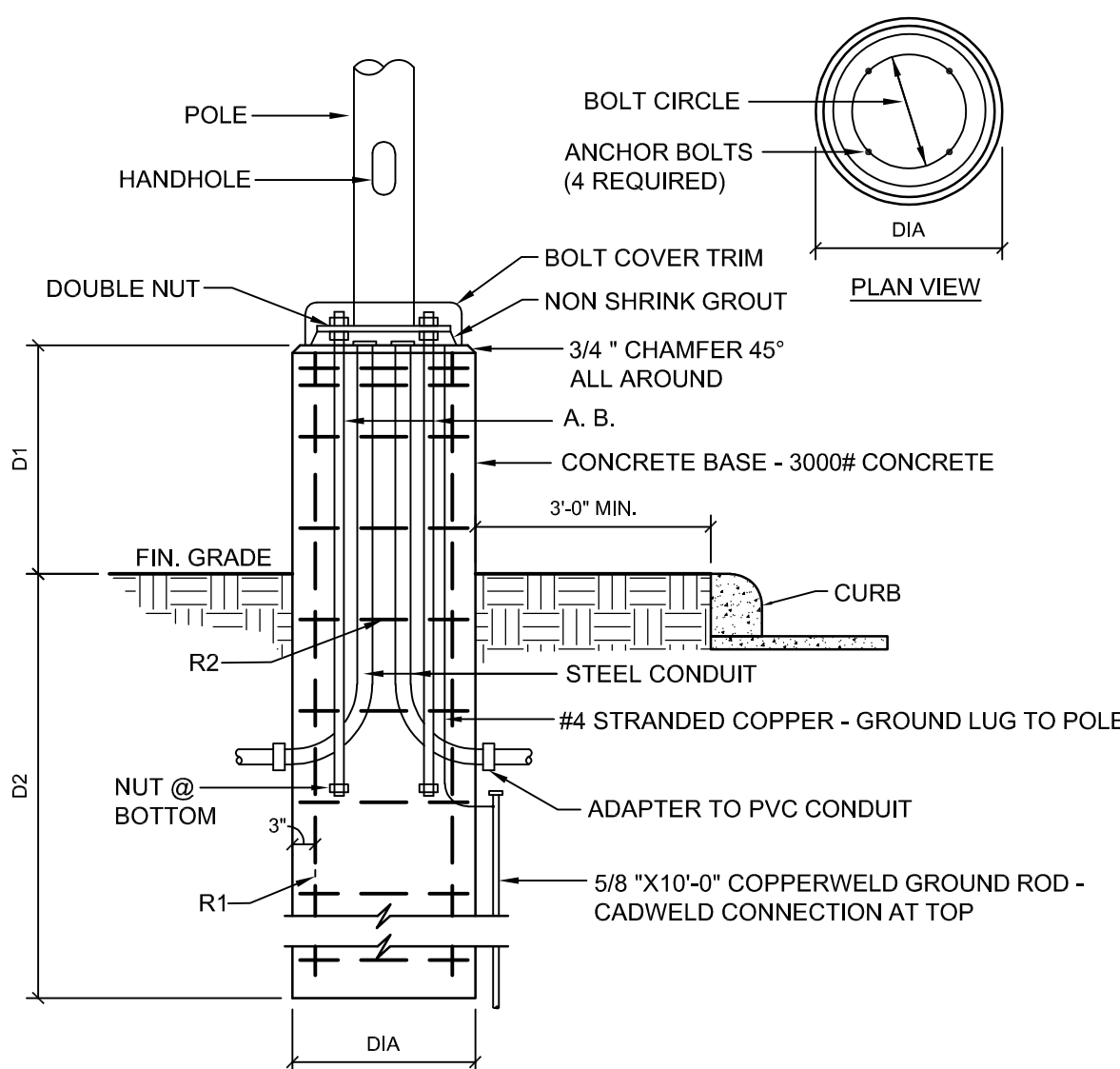
1. ALL TYPE "SAE" & "SE" FIXTURE WIRING SHALL BE ROUTED TO CORRESPONDING CIRCUIT BREAKER VIA LIGHTING INVERTER "LI1" LOCATED IN THE MAIN ELECTRICAL ROOM. SEE LIGHTING PLAN E201 FOR MORE INFORMATION.
2. EXISTING LCUB ELECTRICAL VAULT, FIELD VERIFY EXACT LOCATION.
3. UNDERGROUND PRIMARY, CONDUIT BY CONTRACTOR AND WIRING BY LCUB. SEE RISER DIAGRAM FOR ADDITIONAL INFORMATION.
4. UNDERGROUND SECONDARY TO SWITCHBOARD "MSB".
5. 2(4" C), 1(2" C) FOR DATA, PHONE, AND CABLE TO LOCATION AS DIRECTED BY UTILITY SERVICE PROVIDER.
6. NEW UTILITY PAD MOUNT TRANSFORMER FURNISHED AND INSTALLED BY LCUB.
7. NEW CONCRETE PAD FOR LCUB TRANSFORMER. PAD SHALL BE INSTALLED PER LCUB REQUIREMENTS.
8. 3(1" C) UNDERGROUND FROM THIS AREA STUBBED UP 1' AFF ALONG EXTERIOR OF NORTH WALL OF BUILDING FOR FUTURE GENERATOR SHUNT TRIP PUSH BUTTONS. CAP CONDUITS ON BOTH ENDS AND PROVIDE GPS COORDINATES TO OWNER OF UNDERGROUND CAPPED END OF EACH CONDUIT.
9. 6(1" C) UNDERGROUND FROM THIS AREA STUBBED UP INTO PANEL "L28" IN MAIN ELECTRICAL ROOM FOR FUTURE GENERATOR AUXILIARY LOADS (BATTERY CHARGERS AND BLOCK HEATERS). CAP CONDUITS ON UNDERGROUND ENDS AND PROVIDE GPS COORDINATES TO OWNER OF UNDERGROUND CAPPED END OF EACH CONDUIT.
10. CONDUIT TERMINATION LOCATION FOR FUTURE GENERATORS. SEE RISER DIAGRAM FOR ADDITIONAL INFORMATION. CAP UNDERGROUND CONDUIT ENDS AND PROVIDE GPS COORDINATES TO OWNER OF CAPPED ENDS.
11. FUTURE CONCRETE PAD FOR LCUB TRANSFORMER.
12. FUTURE UTILITY PAD MOUNT TRANSFORMER FURNISHED AND INSTALLED BY LCUB.
13. NOT USED.
14. UNDERGROUND SECONDARY CONDUITS TO MAIN SECTION OF FUTURE SWITCHGEAR. SEE RISER DIAGRAM FOR ADDITIONAL INFORMATION.
15. FUTURE UNDERGROUND PRIMARY. FURNISH AND INSTALL CONDUIT PER RISER DIAGRAM. WIRING BY LCUB IN FUTURE. STUB UP AND CAP CONDUIT 2' AFF AT FUTURE TRANSFORMER PAD LOCATION. CAP OTHER END OF CONDUIT UNDERGROUND IN GRASS WHERE SHOWN AND PROVIDE GPS COORDINATES TO OWNER OF CAPPED CONDUIT ENDS.



POLE DETAIL

SCALE: N.T.S.

3



POLE HT.	D1	D2	DIA	R1	R2	A.B.'s (A307)	M max
25'	3'-0"	6'-0"	24"	(4) # 6 BAR	#3 TIES @ 12" O.C. 3' O.C. @ TOP	(4) 3/4" X 36"	10.25 K-FT

POLE BASE DETAIL

SCALE: N.T.S.

2

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CONSULTANT

ELECTRICAL ENGINEER:
**STEPHEN MARK
NEWLIN JR**

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PROJECT INFORMATION

PROJECT:

BEEHIVE 3D

PROJECT ADDRESS:

LOT 12, KEMP FAIR LANE
KNOXVILLE, TN 37932

PROJECT NO.: **210390**

NOTES

ACTIVE DESIGN PHASE

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- CONSTRUCTION DOCUMENTS
- AS-BUILT RECORD SET

REVISION INFORMATION

NO.	DATE	DESCRIPTION

KEY PLAN

SHEET INFORMATION

SHEET ISSUED: 2/22/2022
DESIGNED BY: SMN
DRAWN BY: SMN
REVIEWED BY: SMN
SHEET TITLE:

ELECTRICAL SITE
PLAN

SHEET NO.:

ES101

