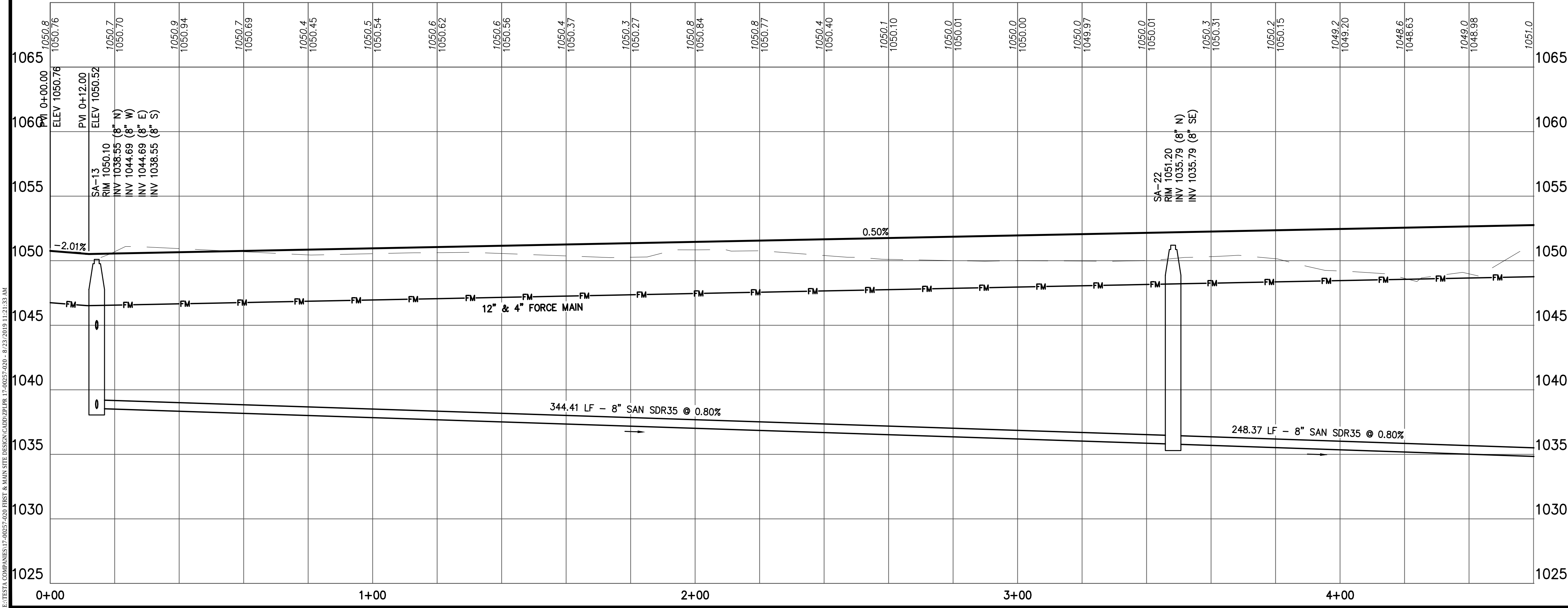
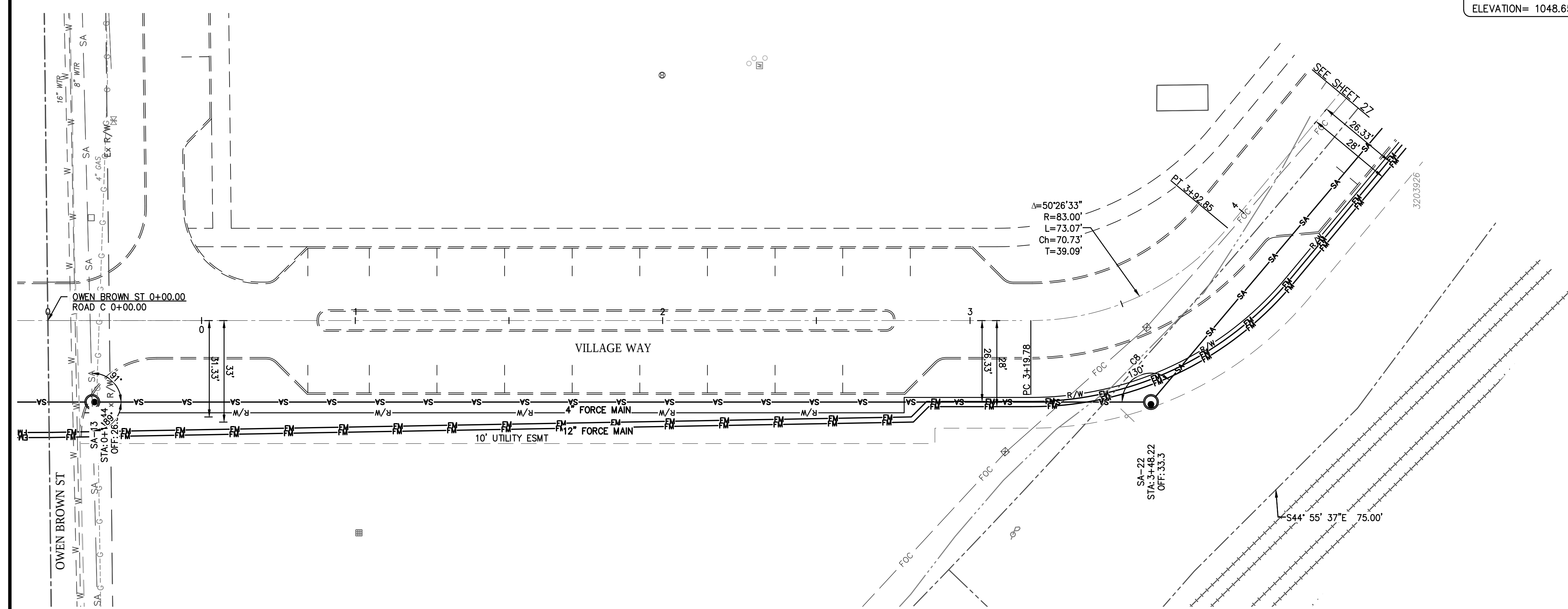
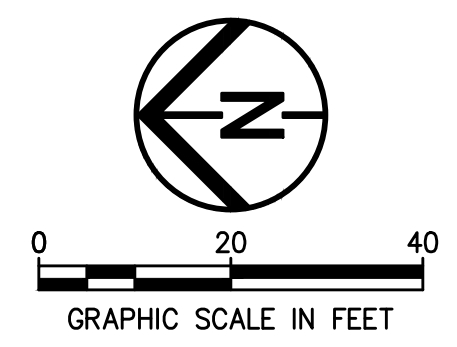


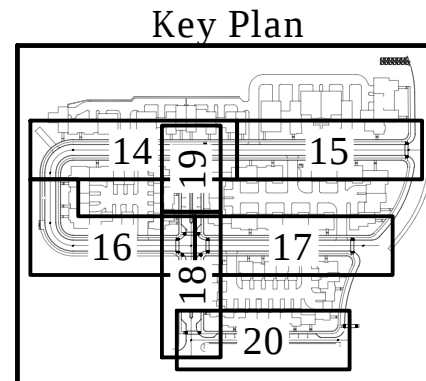
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BM
RIM OF EXISTING SANITARY MH
19.5' E MORSE RD @
25.5' N OWEN BROWN @
ELEVATION= 1048.65 NAVD88



- NOTES:
1. CURB INLET RIM=TOP OF CURB AT CENTER OF INLET
 2. DISTANCES ARE HORIZONTAL FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE
 3. MAINTAIN 18" CLARENCE BETWEEN WATER LINE AT ALL CROSSINGS



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CITY OF HUDSON - PHASE 2A
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PROJECT NO.:

17-00257-020

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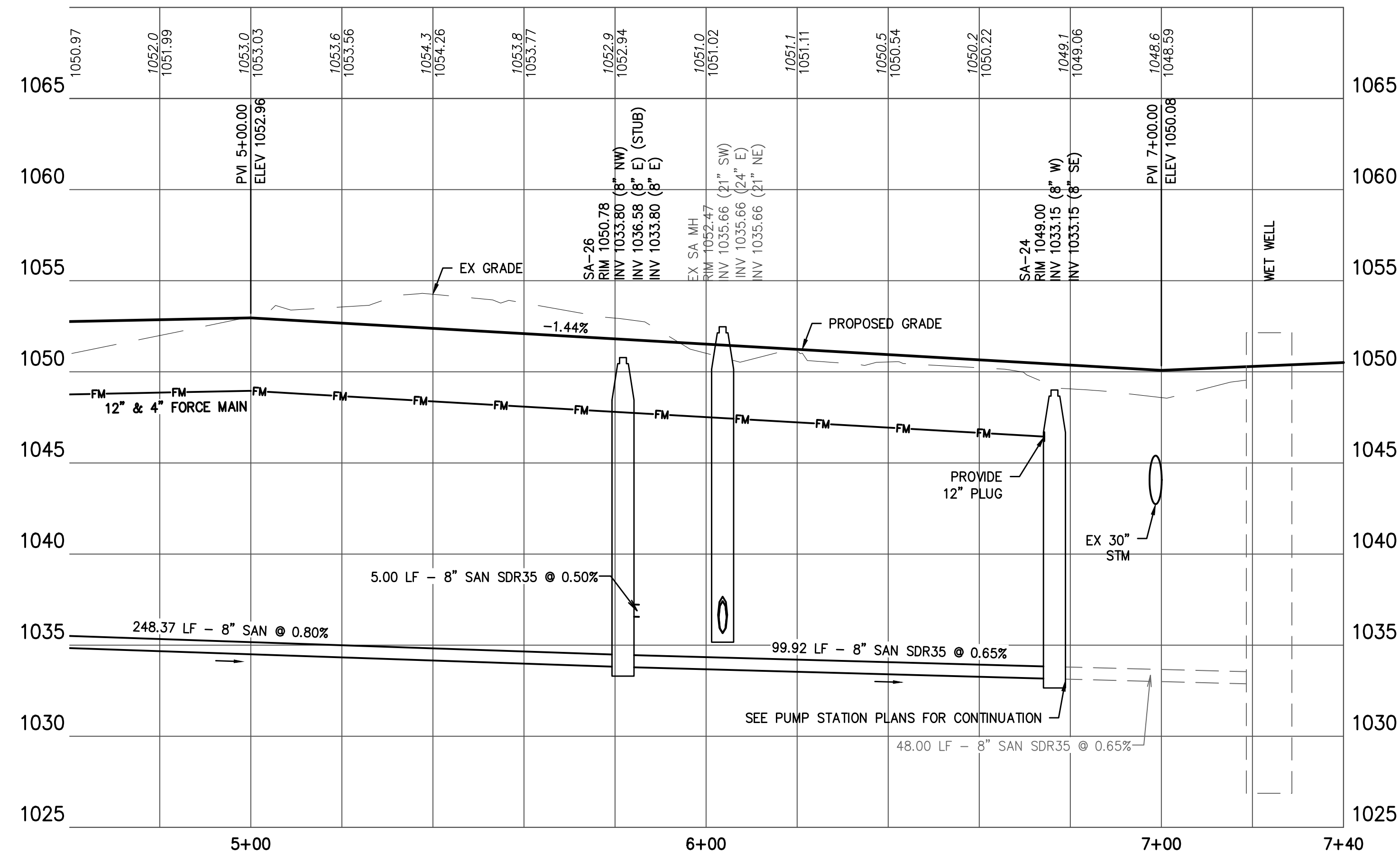
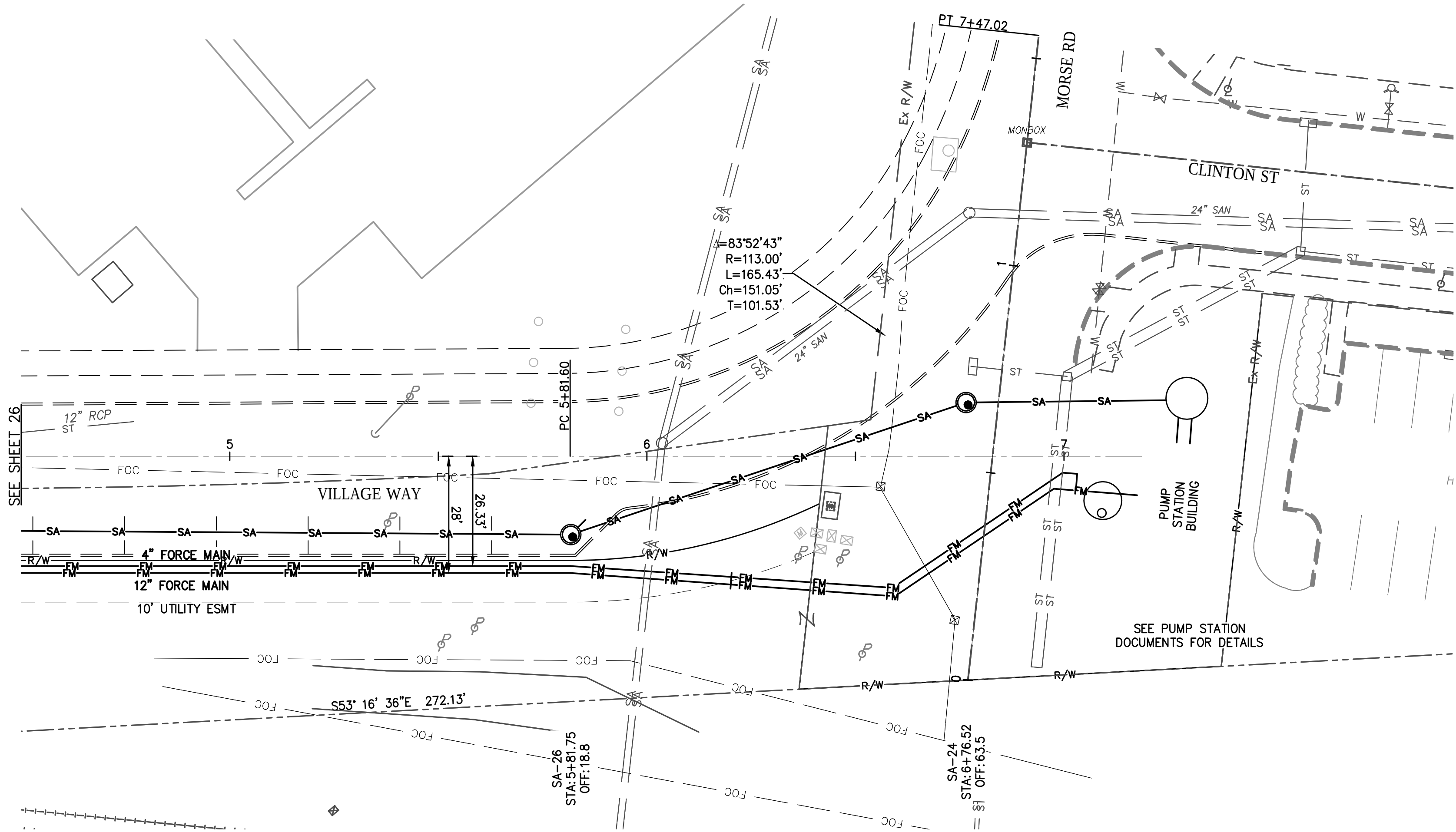
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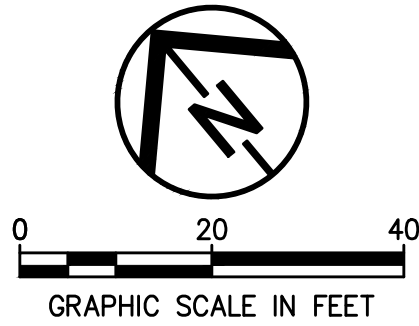
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DATE ISSUED:

2018-10-15

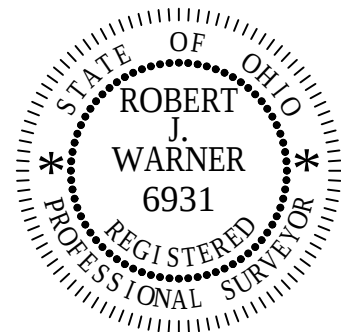


BM
RIM OF EXISTING SANITARY MH
19.5' E MORSE RD @
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HUDSON DOWNTOWN PHASE 2
PUBLIC IMPROVEMENTS
CITY OF HUDSON - PHASE 2A
TESTA COMPANIES

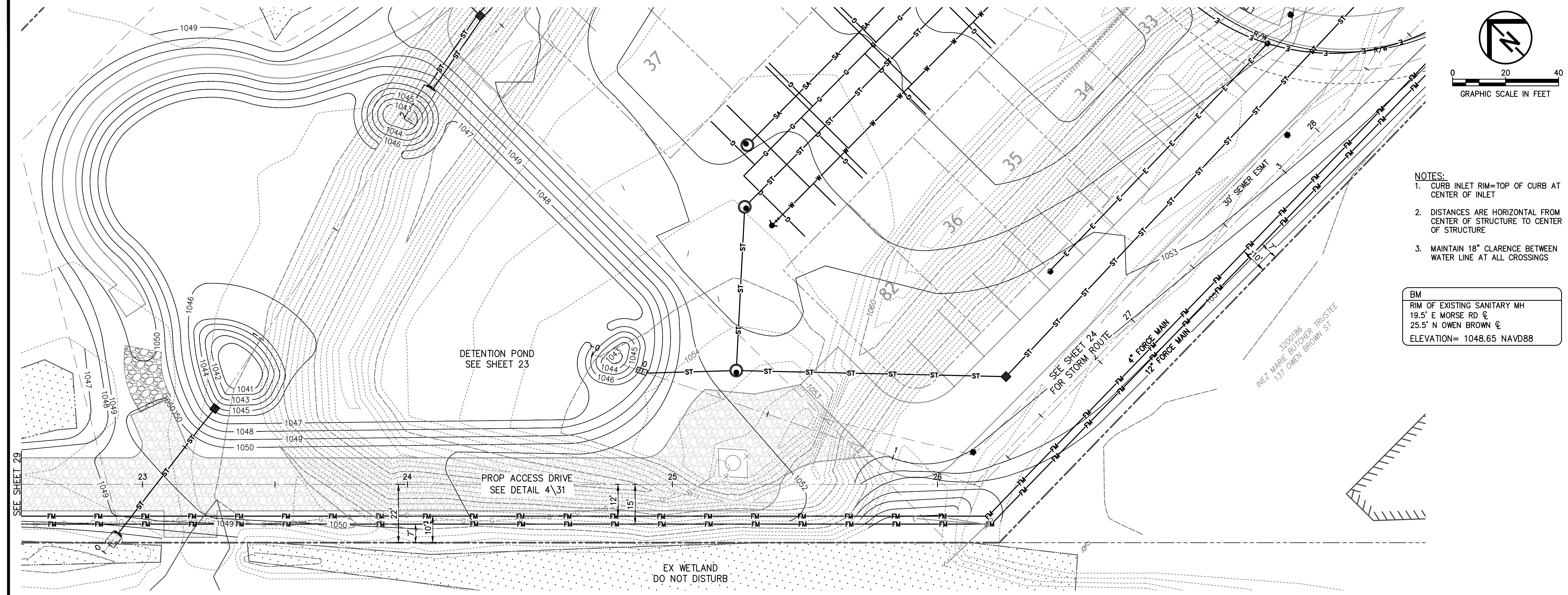


DATE: _____

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PROJECT NO.: 17-00257-020
DRAWN BY: NJM
CHECKED BY: RJW
DATE ISSUED: 2018-10-15

SANITARY FORCE
MAIN PLAN & PROFILE



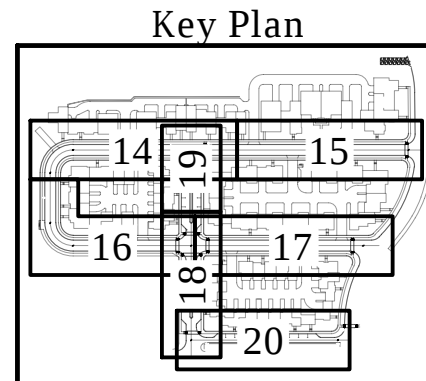
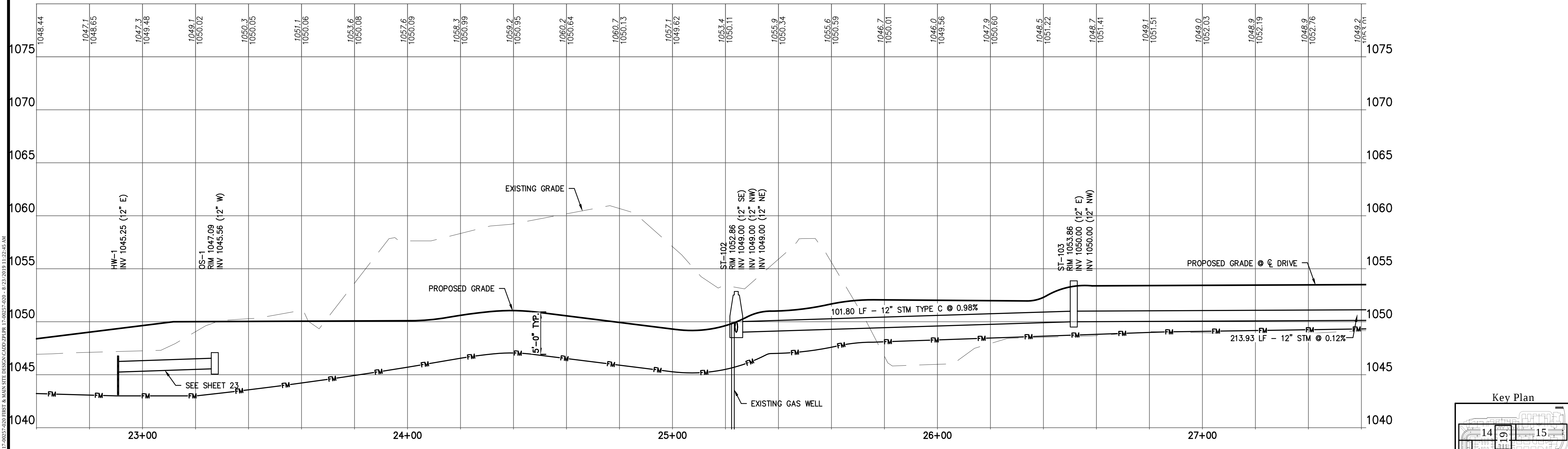
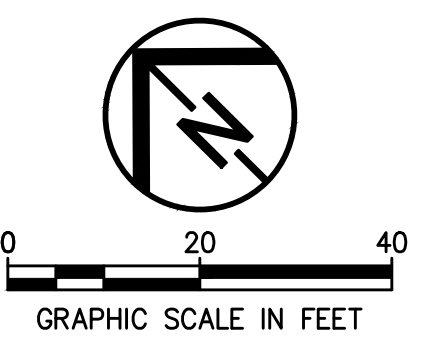
- NOTES:
1. CURB INLET RIM=TOP OF CURB AT CENTER OF INLET
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- BM

RIM OF EXISTING SANITARY MH

19.5' E MORSE RD @

25.5' N OWEN BROWN @

ELEVATION= 1048.65 NAVD88

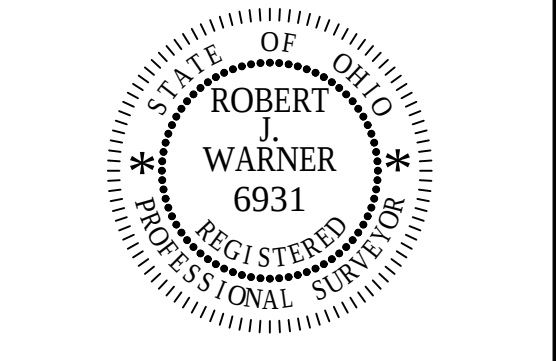


TESTA COMPANIES 17-00257-020 FIRST & MAIN SITE DESIGN CAD/01/PER 17-00257-020 8/23/2018 11:22:45 AM

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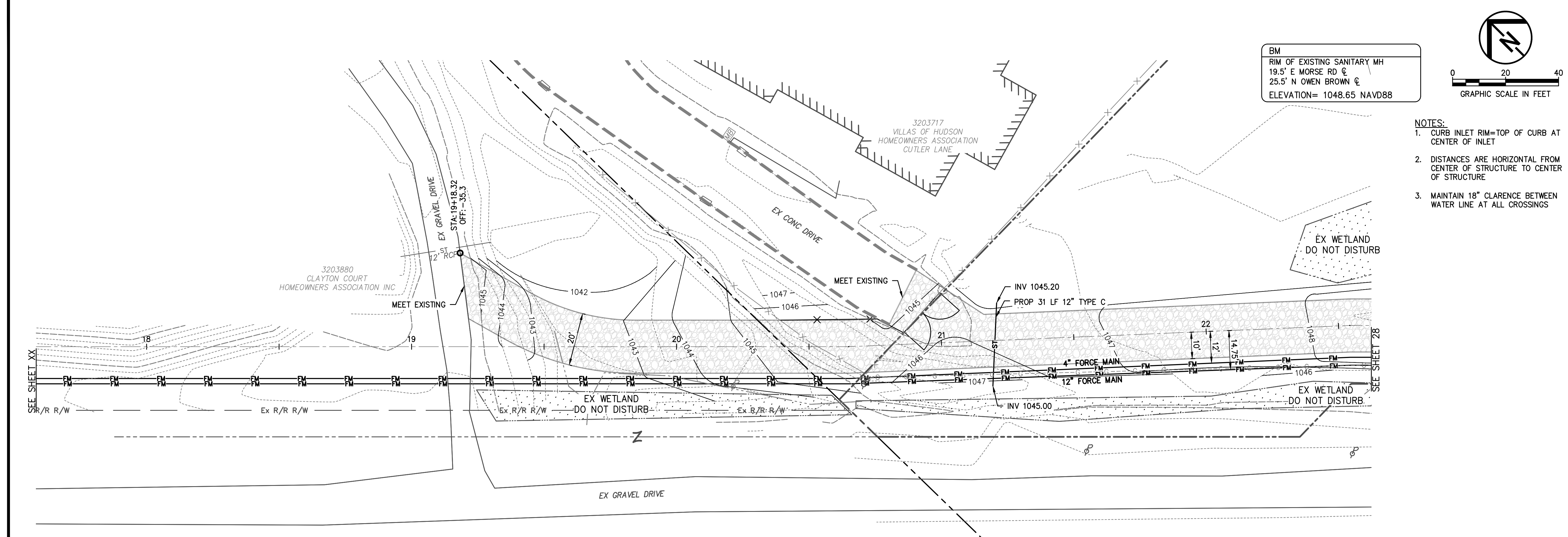


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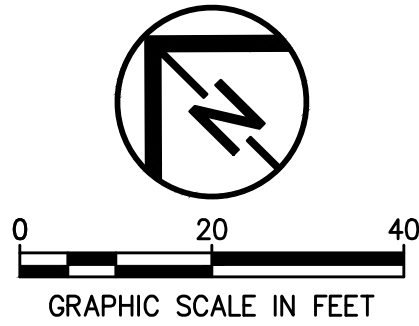
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Δ	DATE	DESCRIPTION

PROJECT NO.:	17-00257-020
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CHECKED BY:	RJW
DATE ISSUED:	2018-10-15

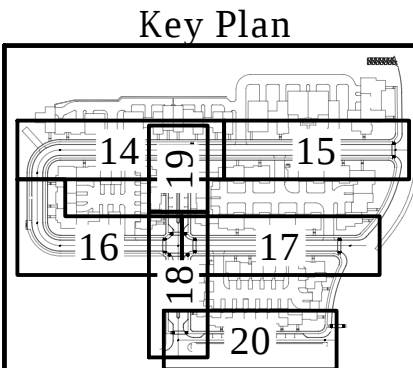
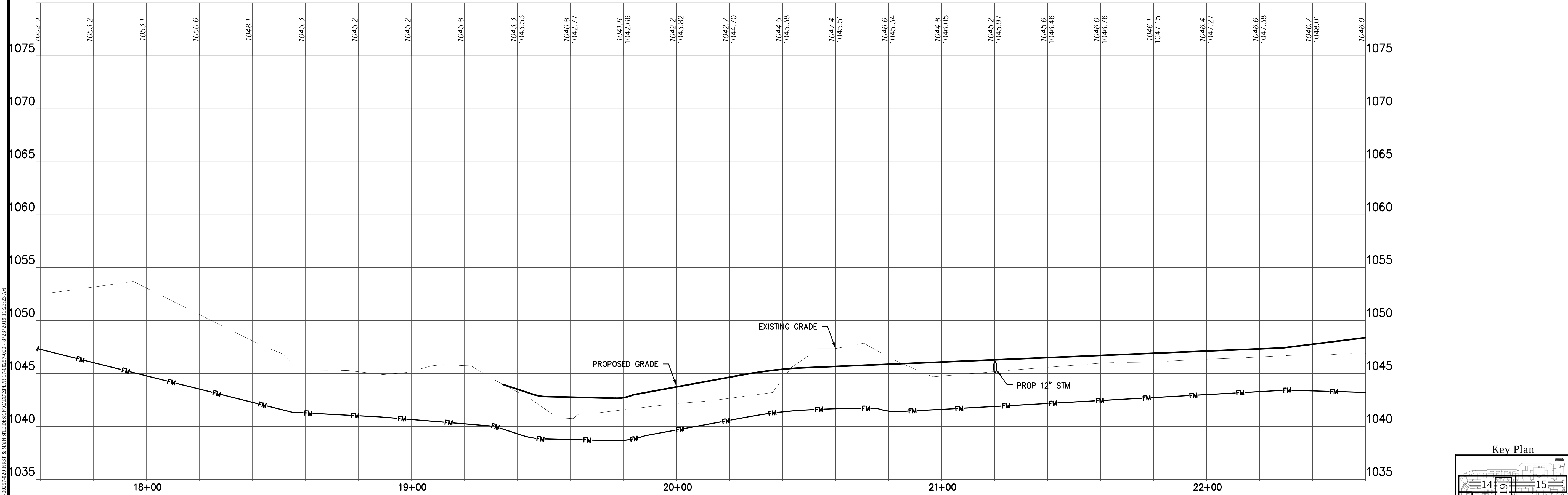
SANITARY FORCE
MAIN PLAN & PROFILE



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RIM OF EXISTING SANITARY MH
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PUBLIC IMPROVEMENTS

CITY OF HUDSON - PHASE 2A

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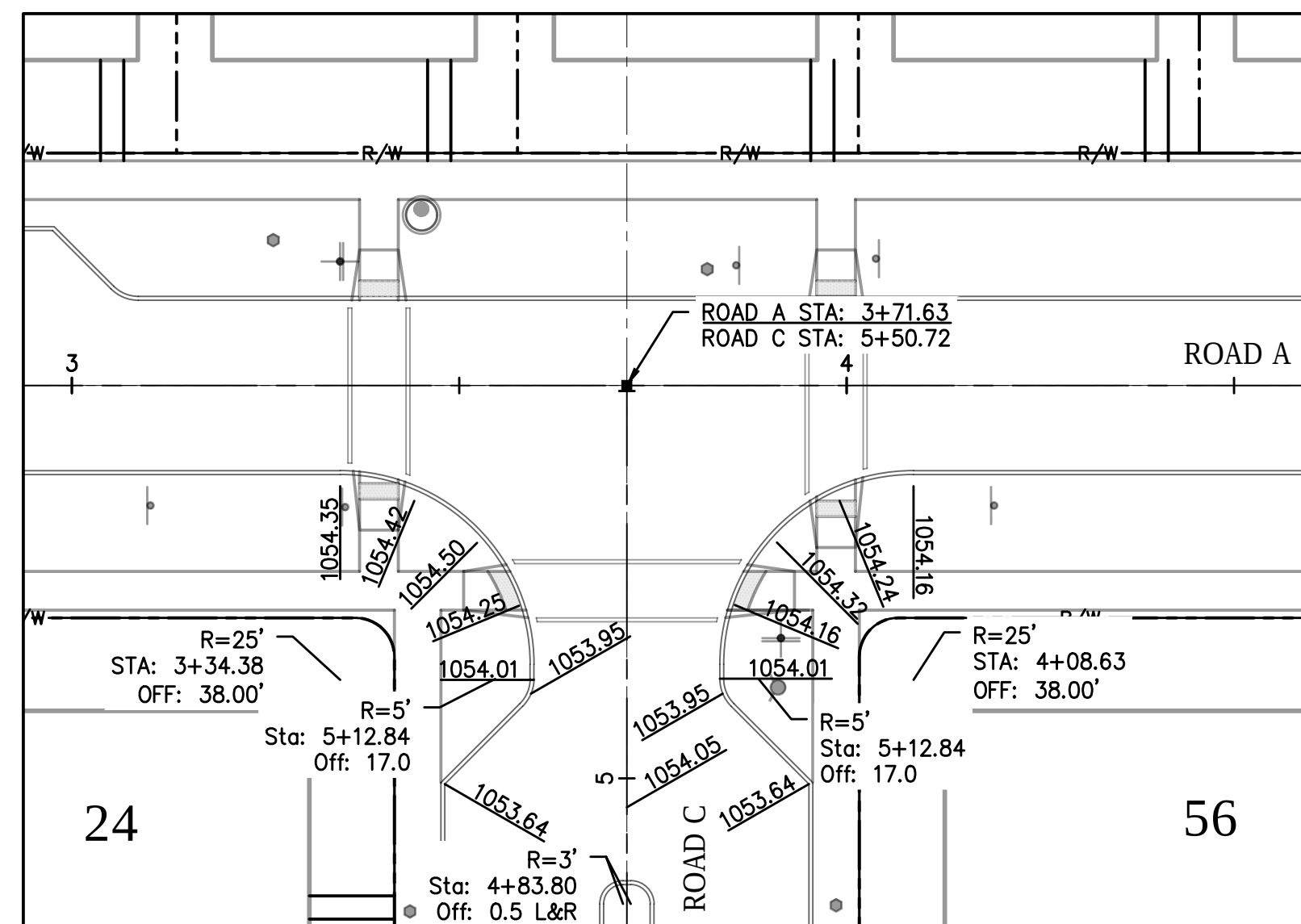
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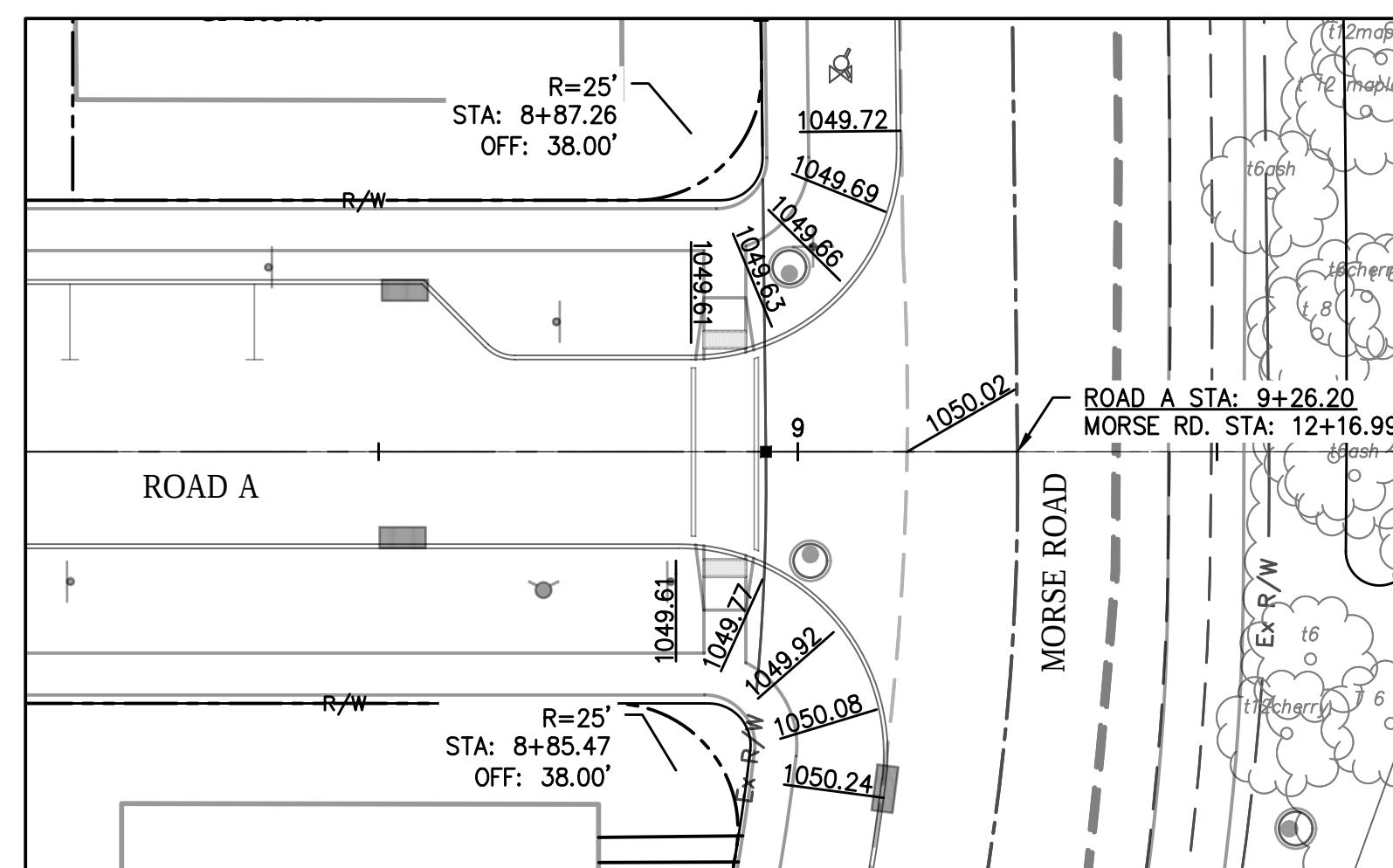
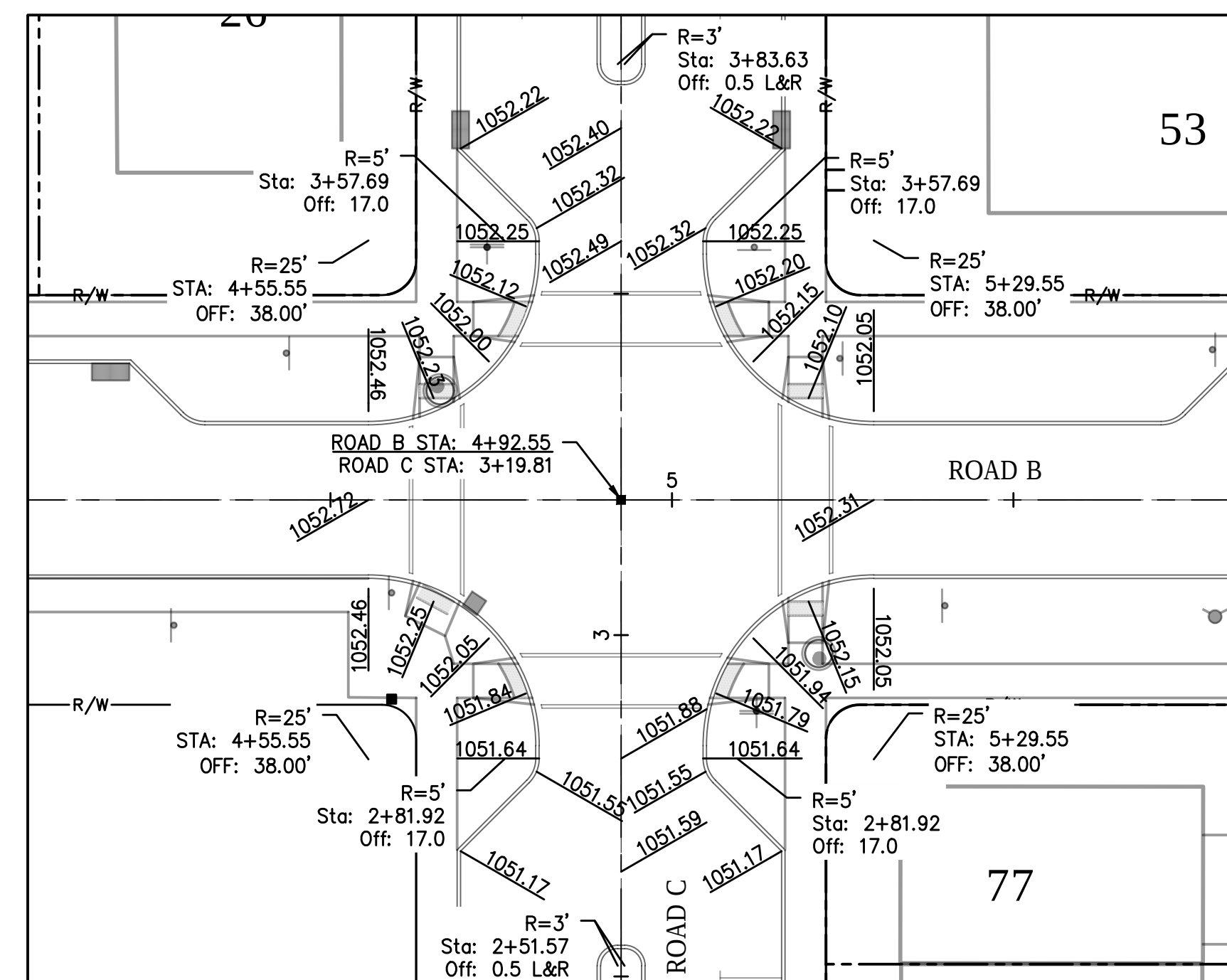
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DATE ISSUED:

2018-10-15

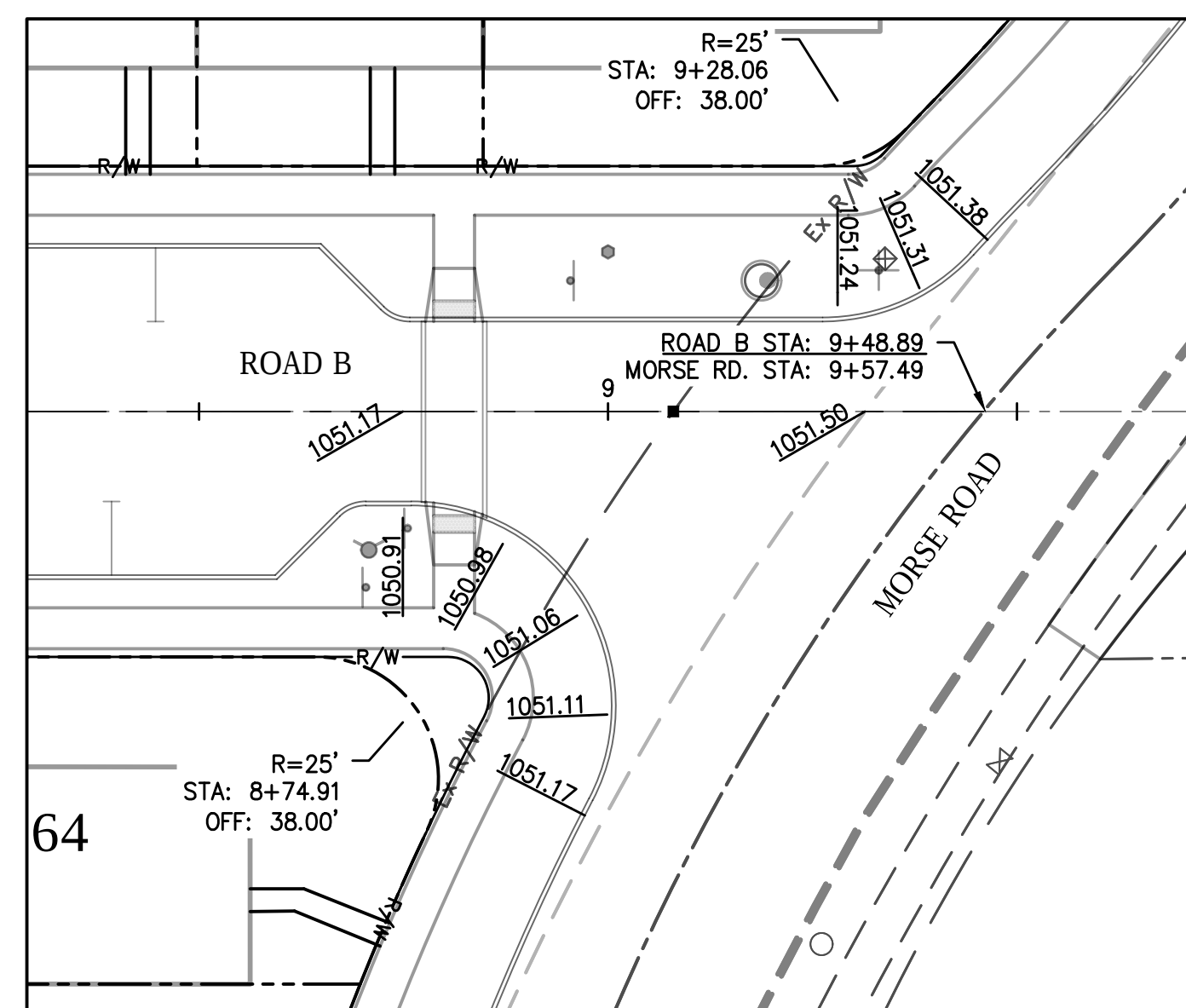
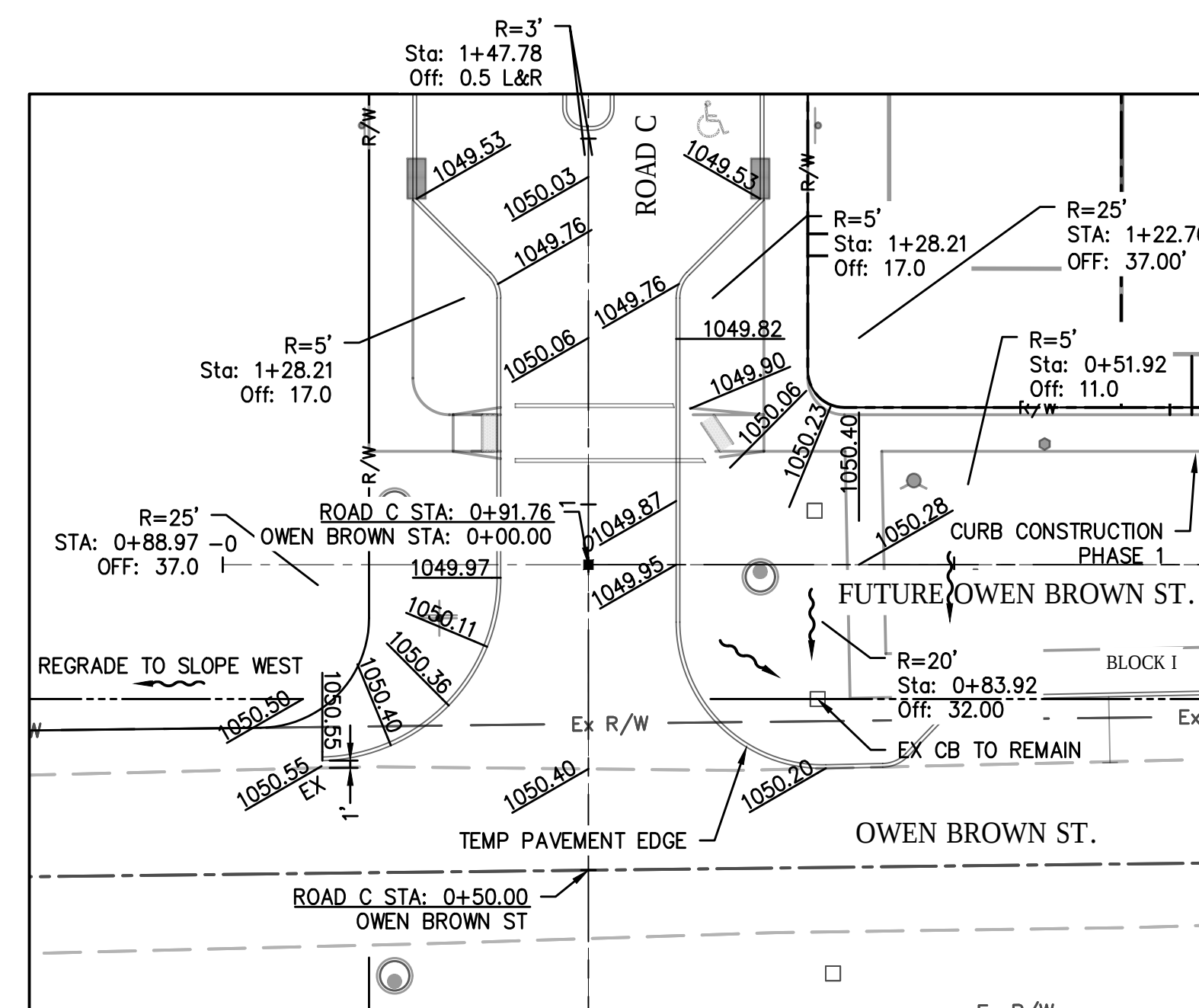


ROAD A & ROAD C

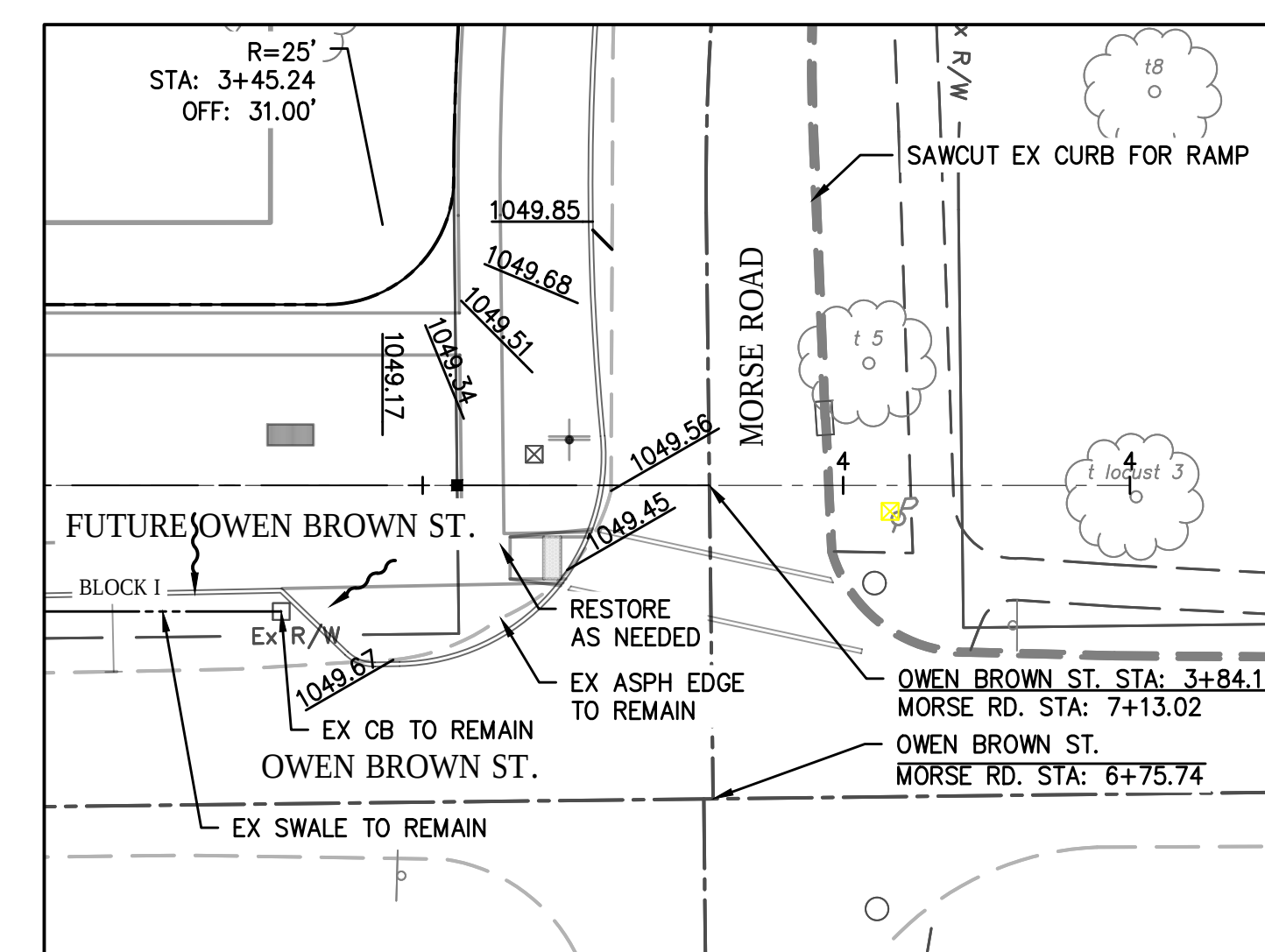
ROAD A & MORSE ROADROAD B & ROAD C

NOTES:

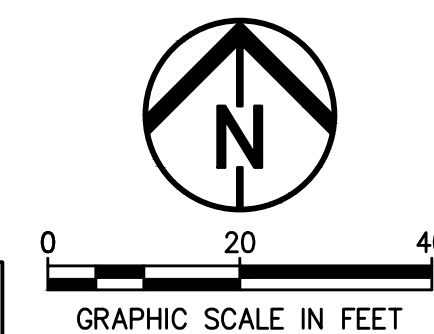
- NOTES:
1. ELEVATIONS SHOWN AT BOTTOM OF CURB
 2. RADIUS DIMENSION SHOWN TO FACE OF CURB

ROAD B & MORSE ROAD

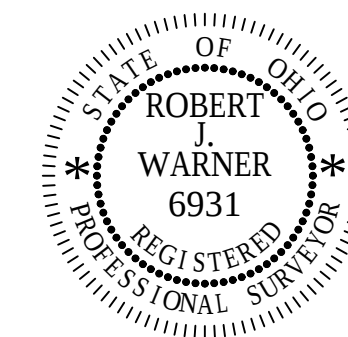
OWEN BROWN ST. & ROAD C



OWEN BROWN ST. & MORSE ROAD



HUDSON DOWNTOWN PHASE 2
CITY OF HUDSON - PHASE 2A
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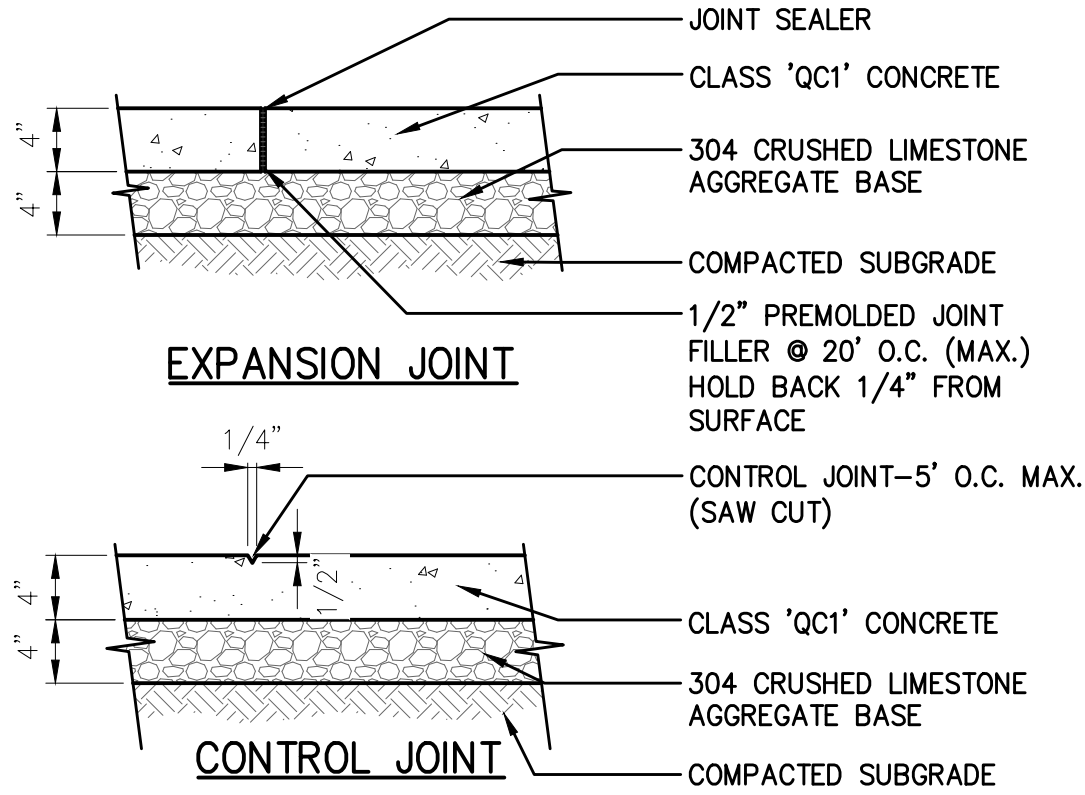
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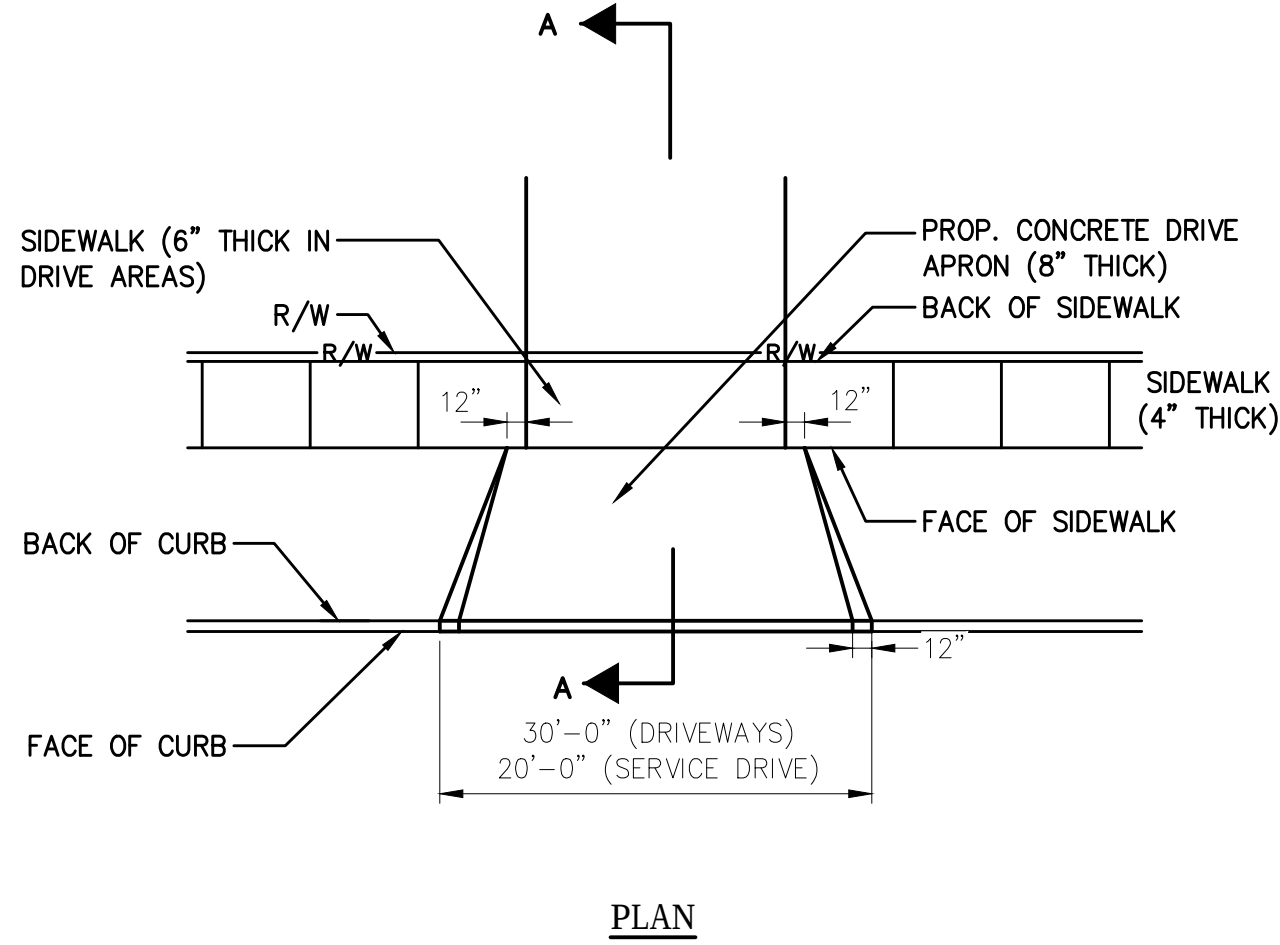
PROJECT NO.:	17-00257-020
DRAWN BY:	NLM
CHECKED BY:	RJW
DATE ISSUED:	2018-10-15

INTERSECTION DETAILS

- NOTES:
1. 1/2" EXPANSION JOINT-20' O.C. MAX. OR AS SHOWN ON DRAWINGS AT ALL CURBS, WALKS, WALLS AND OTHER FIXED OBJECTS.
 2. CONTROL JOINT-5' O.C. MAX. OR AS SHOWN ON DRAWINGS.
 3. CROSS SLOPE AT 1/4" PER FOOT MIN. TO DRAIN.
 4. MEDIUM BROOM FINISH.

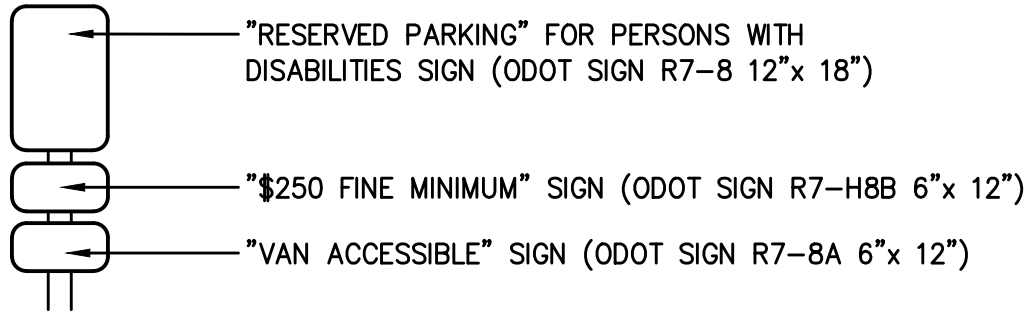


1 TYPICAL CONCRETE WALK
31 NOT TO SCALE



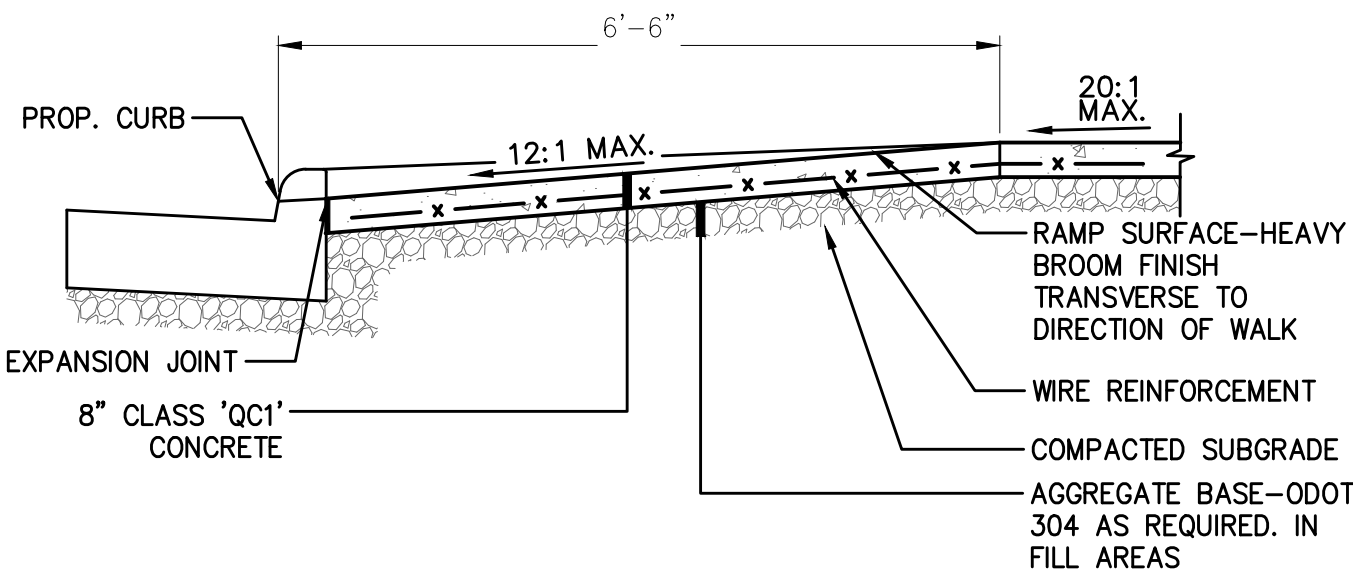
5 DRIVE APRON DETAIL
31 NOT TO SCALE

- NOTES:
1. SEE SITE LAYOUT PLAN FOR SIGN LOCATIONS.
 2. SIGN SHALL BE SINGLE POST DESIGN.
 3. ALL SIGNS TO BE LOCATED AS PER PLANS. LOCATIONS TO BE FIELD VERIFIED.
 4. SIGN POSTS SHALL BE U-CHANNEL TYPE PER ODOT SECTION 730.015. DRAWING TC-41.20.
 5. BOTTOM OF SIGN SHALL BE 60" ABOVE FINISH GRADE.



2 HANDICAP PARKING SIGN DETAIL
31 NOT TO SCALE

- NOTES:
1. CONCRETE AND WORKMANSHIP SHALL MEET THE REQUIREMENTS OF ODOT SPECIFICATION ITEM 608, WITH CLASS 'QC1' CONCRETE.
 2. IMMEDIATELY AFTER REMOVAL OF FORMS, THE SIDEWALK SHALL BE CURED BY AN APPLICATION OF A UNIFORM MIST OF LIQUID MEMBRANE CURING COMPOUND. THE RATE OF SUCH APPLICATION SHALL BE AT LEAST ONE GAL. PER 200 SQ. FT. OF SURFACE.

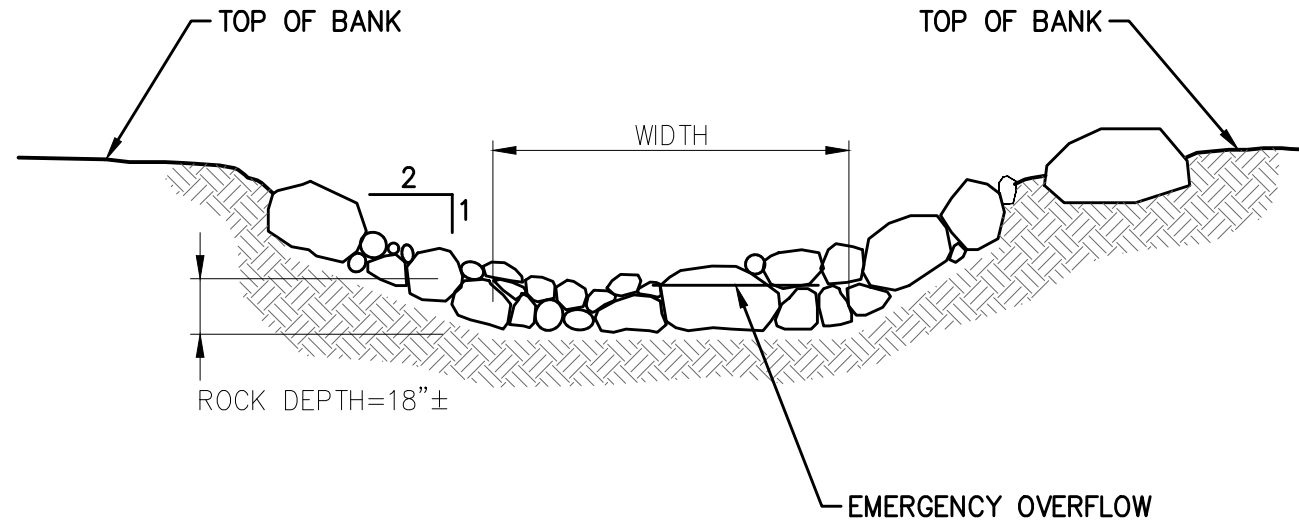


LONGITUDINAL SECTION A-A

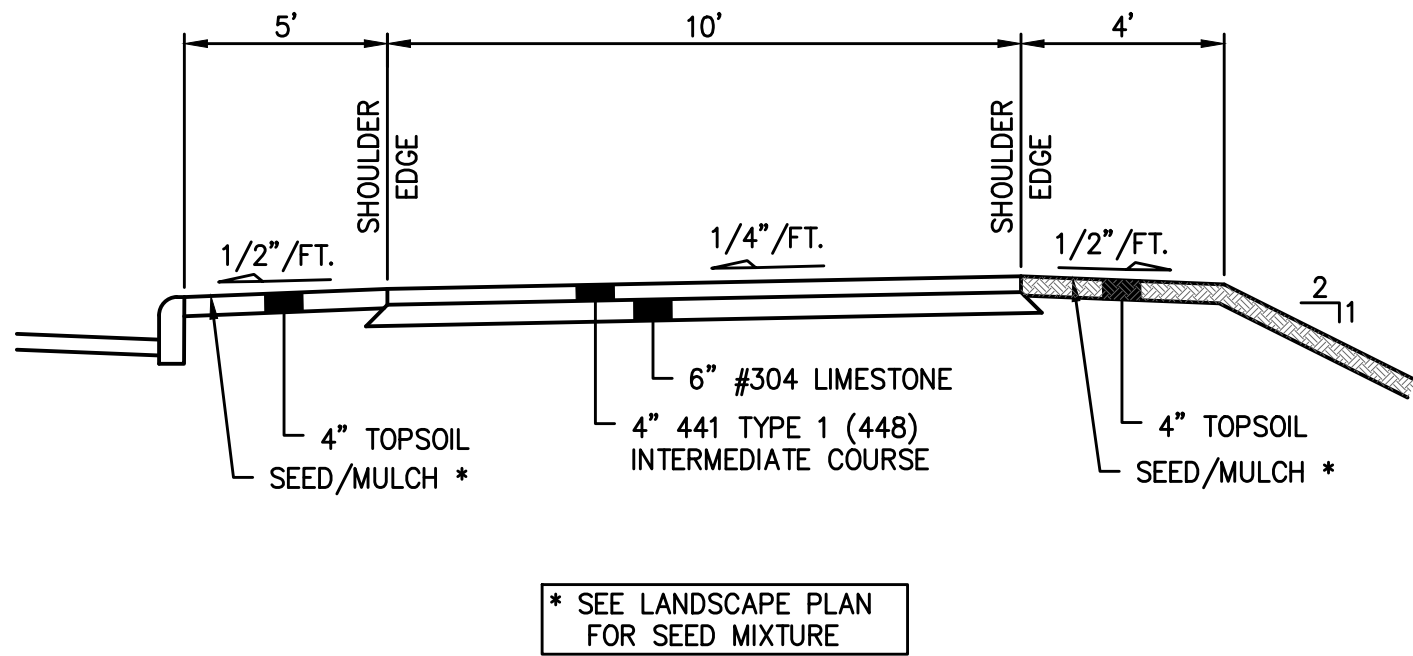
- NOTES:
1. ROCK SOURCE TO BE FROM SAND AND GRAVEL QUARRY.
- ROCK SIZES
20% - 18" ROCK
80% - 12" ROCK

BASIN	TOP OF BANK	WIDTH	EMERGENCY OVERFLOW
WEST	1050.00	10	1049.00
EAST-N	1048.00	10	1047.50
EAST-S	1048.00	10	1047.50

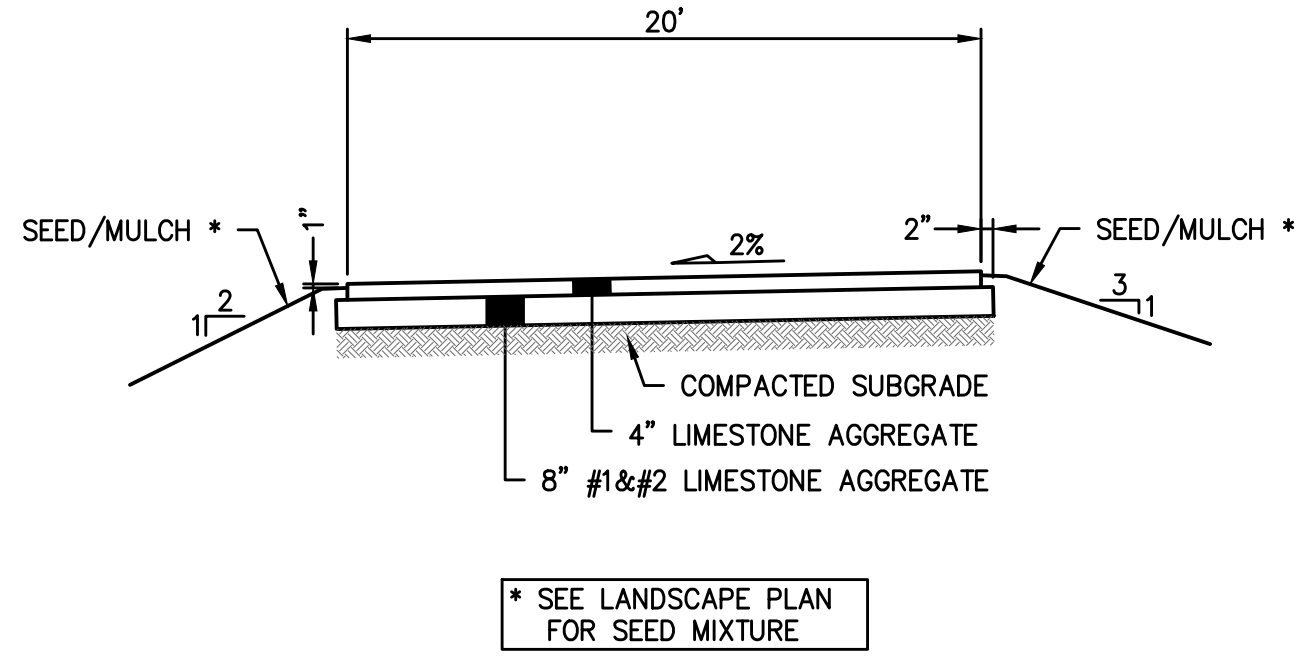
ROCK TO BE FROM NATIONAL SOURCE.
GROUT ROCK IN PLACE PER ODOT ITEM 601.



3 EMERGENCY SPILLWAY DETAIL
31 NOT TO SCALE

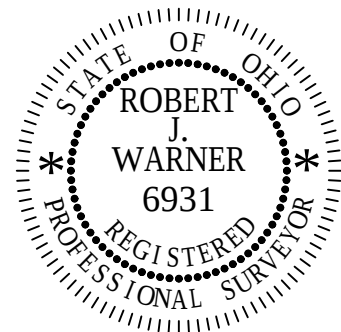


6 TRAIL DETAIL
31 NOT TO SCALE



4 ACCESS DRIVE DETAIL
31 NOT TO SCALE

HUDSON DOWNTOWN PHASE 2
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CITY OF HUDSON - PHASE 2A
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PROJECT NO.:	17-00257-020
DRAWN BY:	NLM
CHECKED BY:	RJW
DATE ISSUED:	2018-10-15

CONSTRUCTION
DETAILS

	MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	FINAL FILL: FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER.	ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGER MATERIAL AND PREPARATION REQUIREMENTS.
C	INITIAL FILL: FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B') DOWN TO 18" (450 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'C' LAYER.	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR PROCESSED AGGREGATE. MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER.	AASHTO M43 ¹ A-1, A-2-4, A-3 OR AASHTO M43 ¹ 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 12" (300 mm) OF MATERIAL OVER THE CHAMBER IS REACHED. COMPACT ADDITIONAL LAYERS IN 6" (150 mm) MAX LIFTS TO A MIN. 90% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIAL. ROLLER GROSS VEHICLE WEIGHT NOT EXCEED 12,000 lbs (53 kN). DYNAMIC FORCE NOT TO EXCEED 20,000 lbs (89 kN).
B	EMBEDMENT STONE: FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A') LAYERS TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43 ¹ 3, 357, 4, 467, 5, 56, 57	NO COMPACTION REQUIRED.
A	FOUNDATION STONE: FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43 ¹ 3, 357, 4, 467, 5, 56, 57	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE. ¹

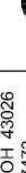
PLEASE NOTE:
1. THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
2. STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 6" (150 mm) (MAX) LIFTS USING TWO FULL COVERS WITH A RAYBOR COMPACTOR.
3. WHERE INFILTRATION SURFACES MAY BE COMPACTED BY COMPACTION, FOLLOW STANDARD DESIGN LOAD CONDITIONS. A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.

ADS GEOSYNTHETICS 601T NON-WOVEN GEOTEXTILE ALL AROUND CLEAN, CRUSHED, ANGULAR STONE IN A & B LAYERS.

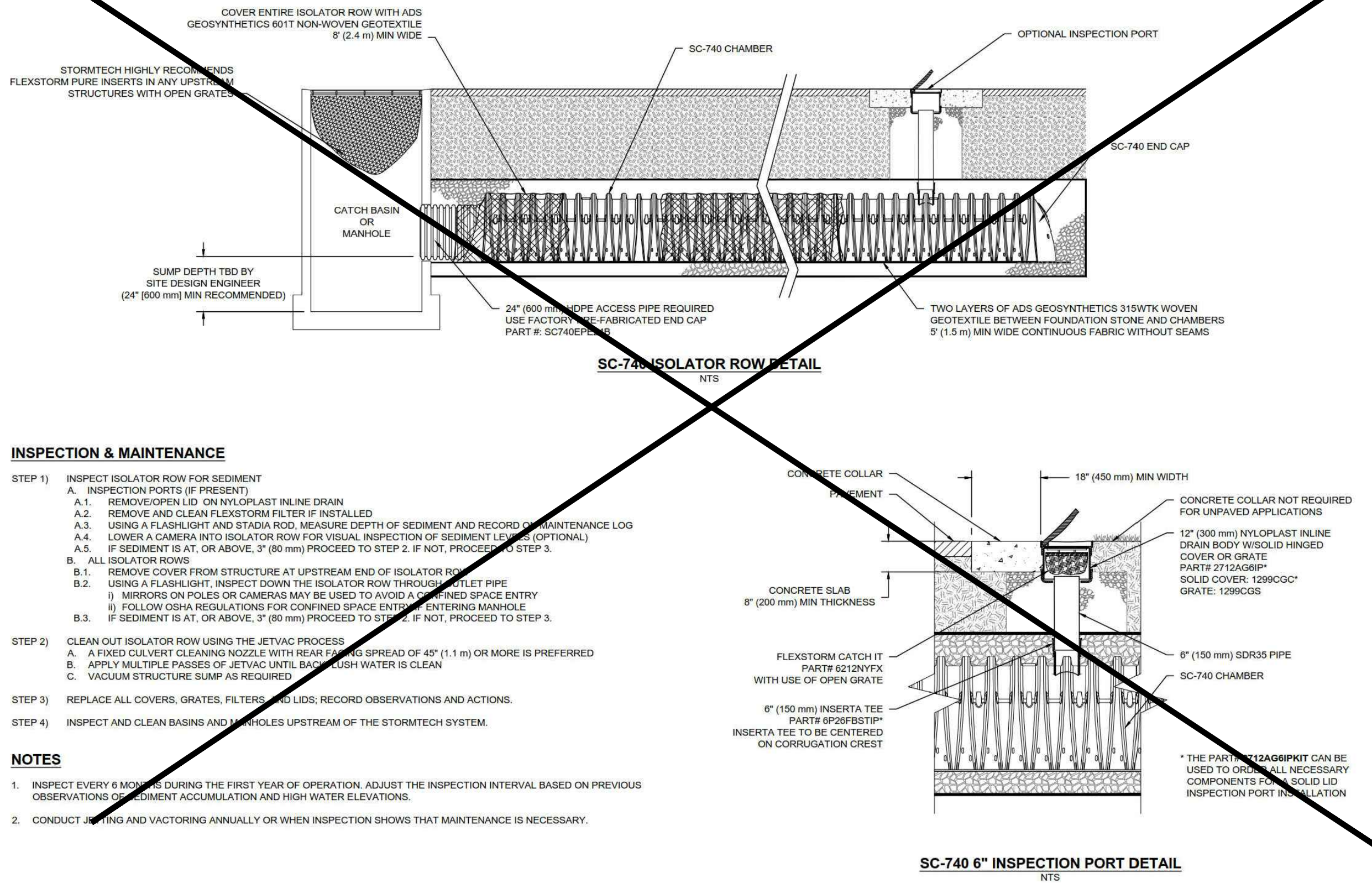
PERIMETER STONE (SEE NOTE 6)
EXCAVATION WALL (CAN BE SLOPED OR VERTICAL)
SC-740 END CAP
SUBGRADE SOILS (SEE NOTE 4)
PAVEMENT LAYER (DESIGNED BY SITE DESIGN ENGINEER)
12" (300 mm) MIN
6" (150 mm) MIN
51" (1295 mm)
12" (300 mm) TYP
1049.27 (MIN.)
1047.00
1046.50
1044.00
1043.50
DEPTH OF STONE TO BE DETERMINED BY SITE DESIGN ENGINEER 6" (150 mm) MIN

NOTES:

- SC-740 CHAMBERS SHALL CONFORM TO THE REQUIREMENTS OF ASTM F3416 "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS", OR ASTM F2302 "STANDARD SPECIFICATION FOR POLYETHYLENE (PE) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- SC-740 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- "ACCEPTABLE FILL MATERIALS" TABLE ABOVE PROVIDES MATERIAL LOCATIONS, DESCRIPTIONS, GRADATIONS, AND COMPACTION REQUIREMENTS FOR FOUNDATION, EMBEDMENT, AND FILL MATERIALS.
- THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS.
- PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
- ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.

 DESIGN SERVICES INTERNATIONAL, LLC 4440 TREILMAN BLVD SUITE 200 AUSTIN, TEXAS 78746 TEL: 512.476.1400 FAX: 512.476.1401 WWW.DSILLC.COM	 7810 MARWOOD DRIVE, SUITE 100, FORT WORTH, TEXAS 76116 TEL: 817.335.7478 FAX: 817.335.7479 WWW.STORMTECH.COM	REV: ☐ 1		DATE: 11/18/14		DRAWN: JLM		CHECKED: JLM		PROJECT #:		STANDARD CROSS SECTION		SC-740	
		DESCRIPTION:		DATE: 11/18/14		DRAWN: JLM		CHECKED: JLM							

1 OF 1





DS
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SUITE 200
DALLAS, TEXAS 75249
TEL: 972-252-2678
FAX: 972-252-2679
WWW.DSDESIGN.COM

StormTech
DESIGN SERVICES, INC.

7810 MONROE ROAD SUITE 110 ROCKY HILL, CT 06067
TEL: 860-261-4646 FAX: 860-261-4648
WWW.STORMTECHDESIGN.COM

REV: DRAW: CHK:

DESCRIPTION:

ISOLATOR ROW DETAILS

SC-740

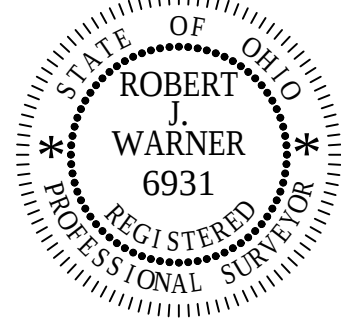
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PROJECT #: CHECKED:

1 OF 1

SHEET

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PROJECT NO.:	17-00257-02
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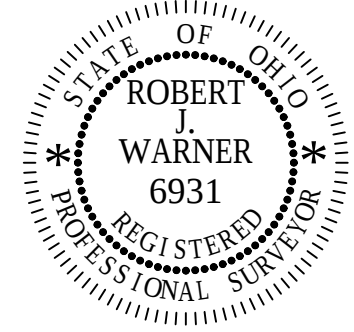
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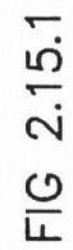
CONSTRUCTION DETAILS

HUDSON DOWNTOWN PHASE 2
PUBLIC IMPROVEMENTS
CITY OF HUDSON - PHASE 2A
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PROJECT NO.:	17-00257-02
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CONSTRUCTION DETAILS



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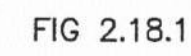
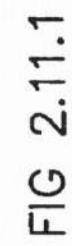
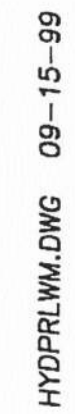


FIG 2.15.2



VALVEBOX.DWG 09-15-99



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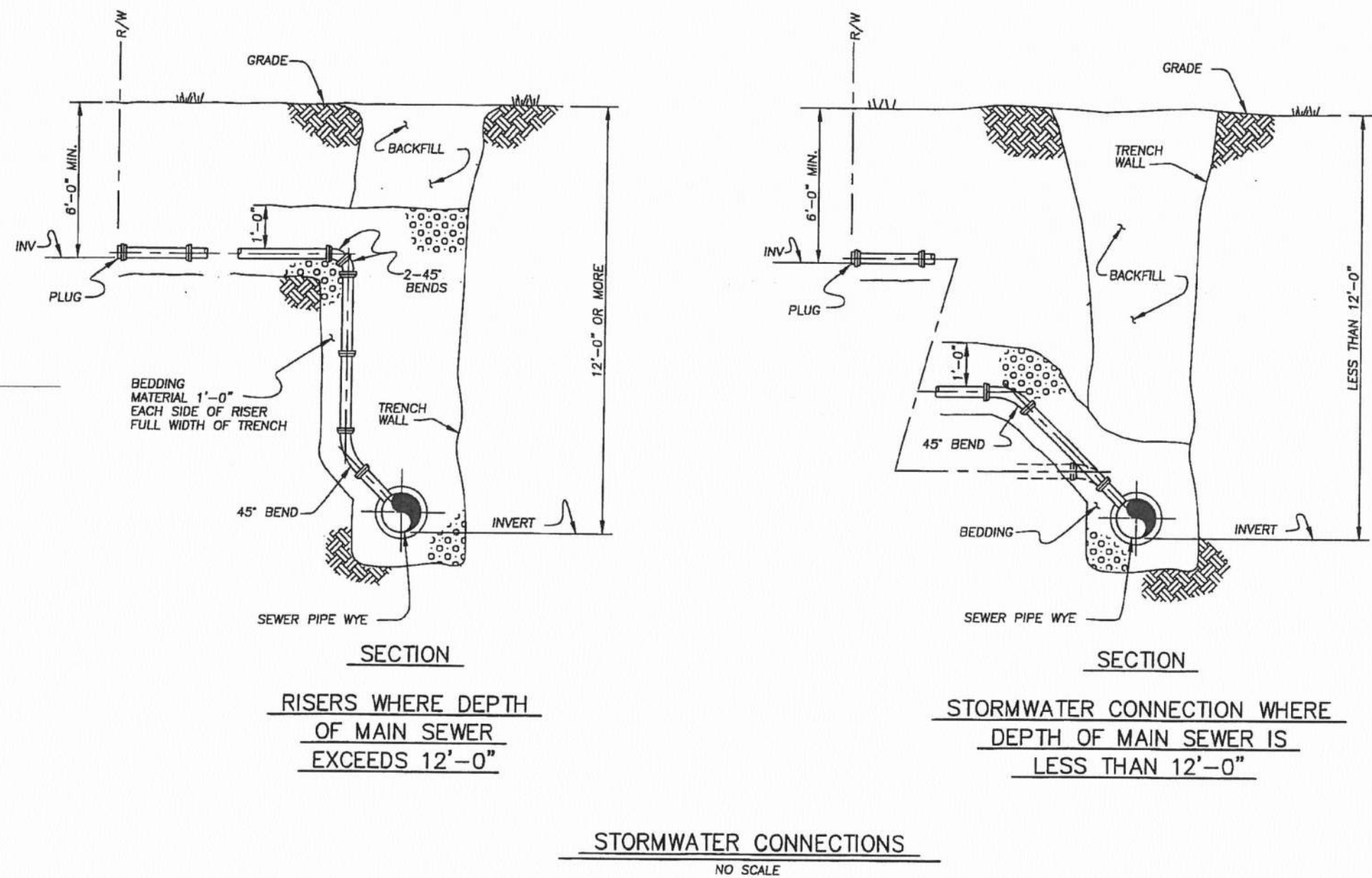


FIG 4.10.1

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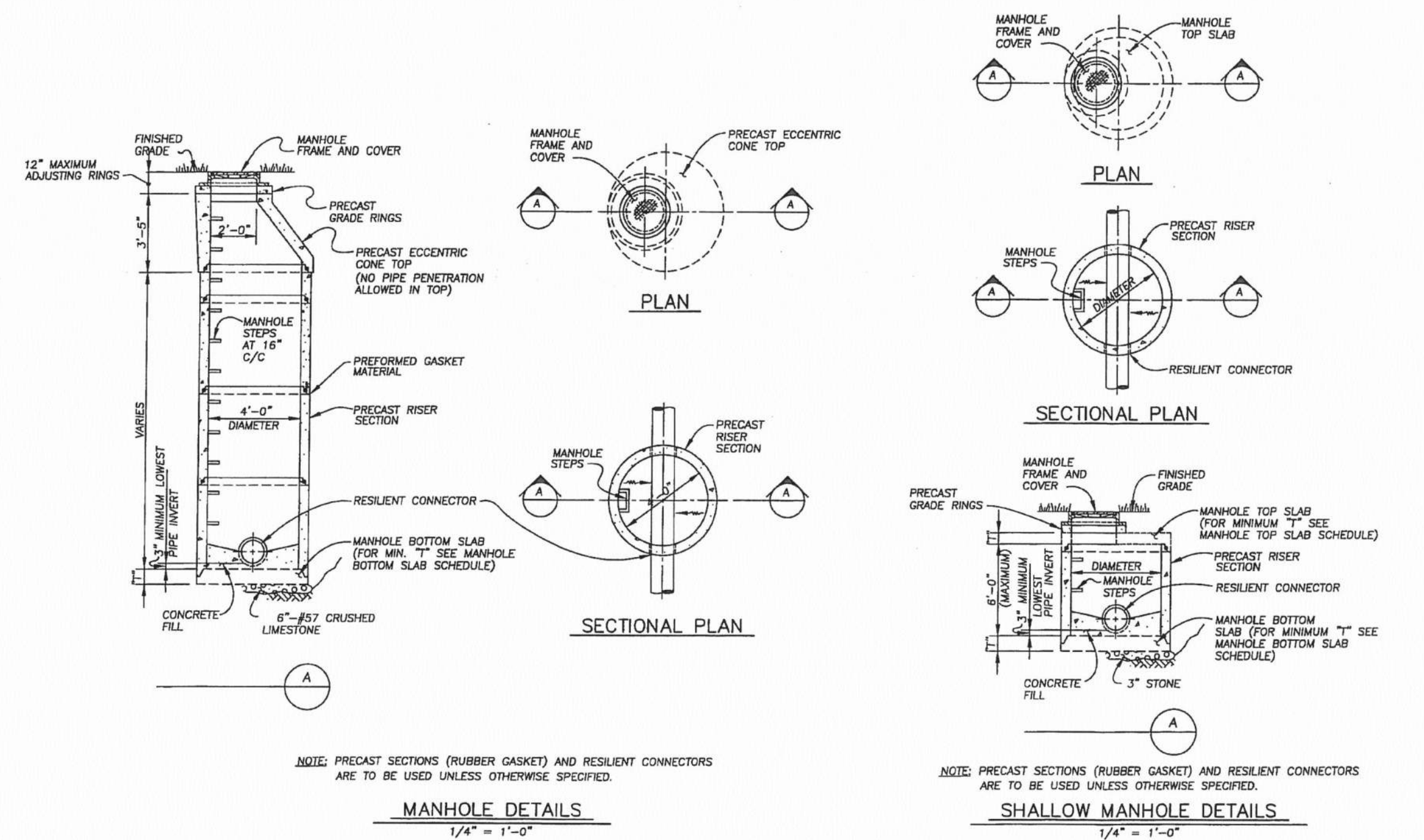


FIG 4.6.2

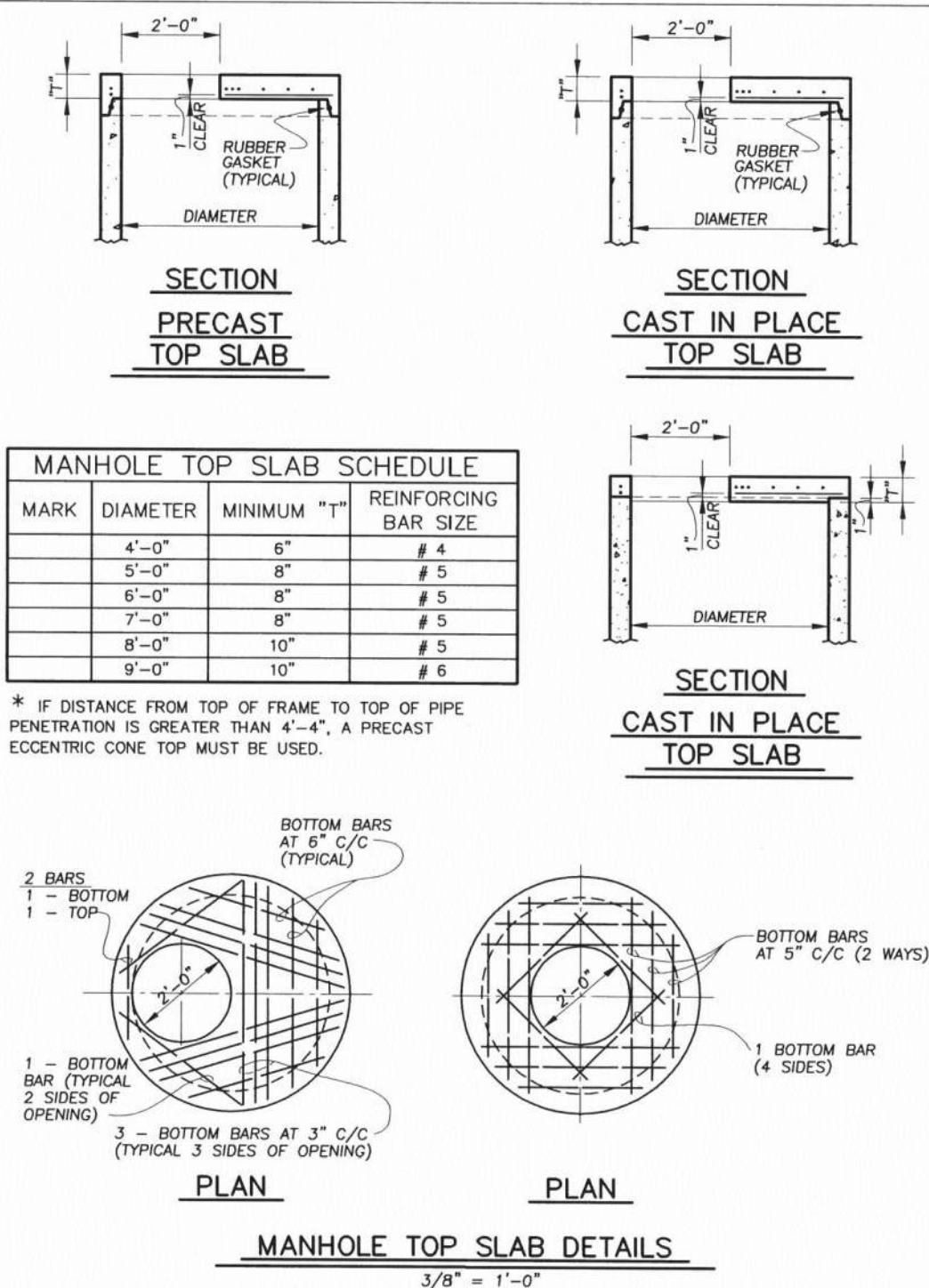


FIG 4.6.4

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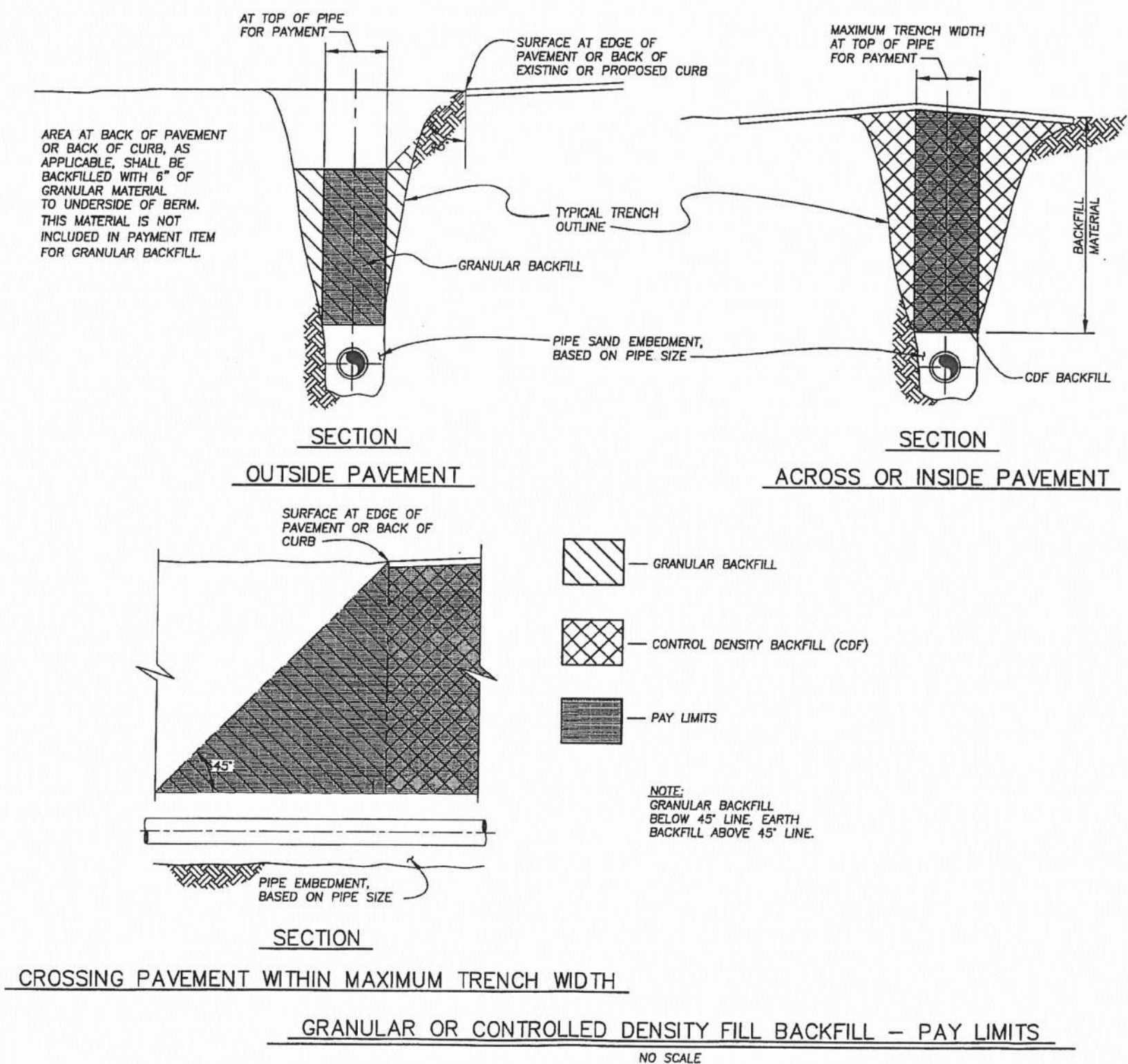
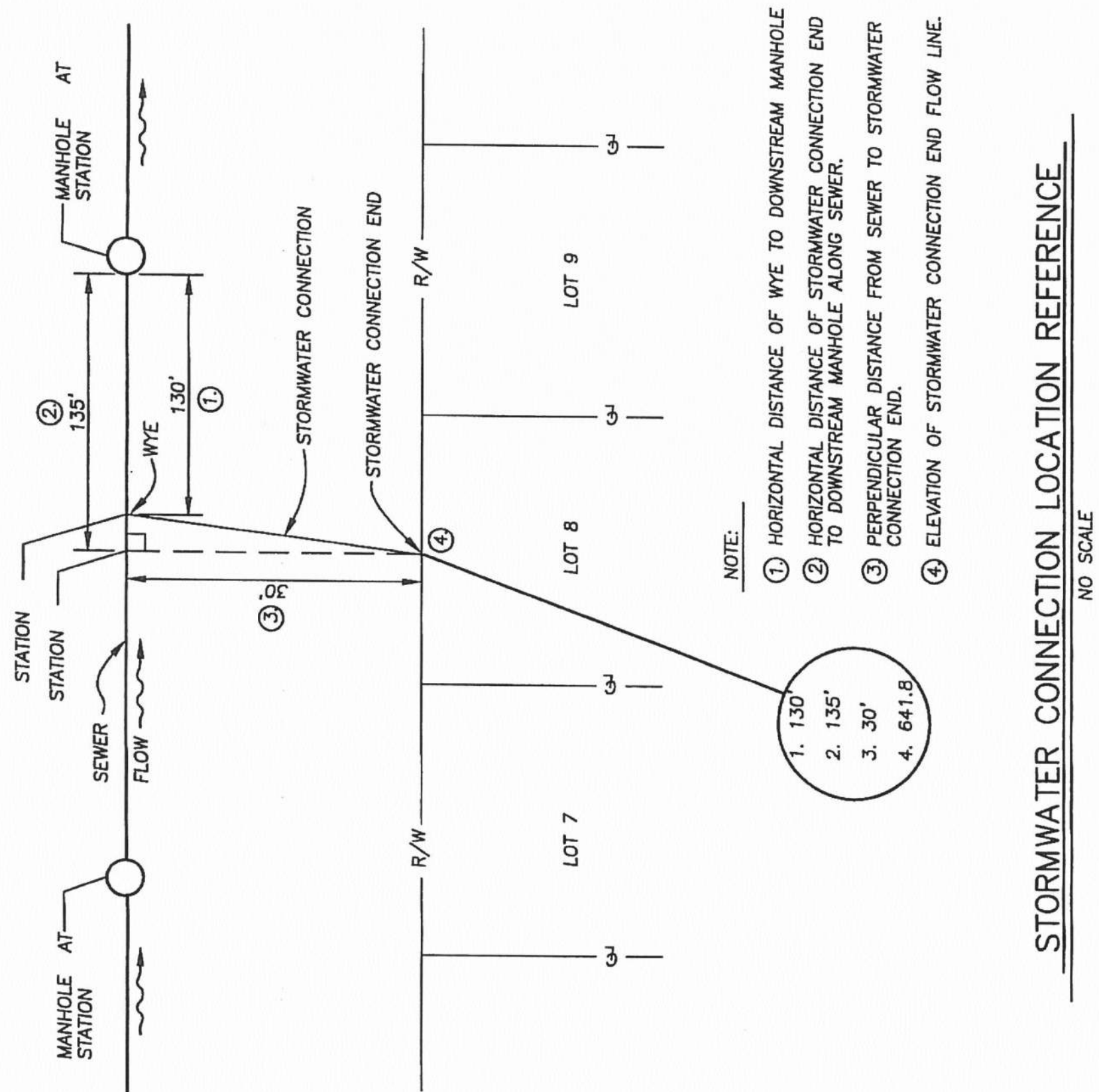


FIG 2.25.1

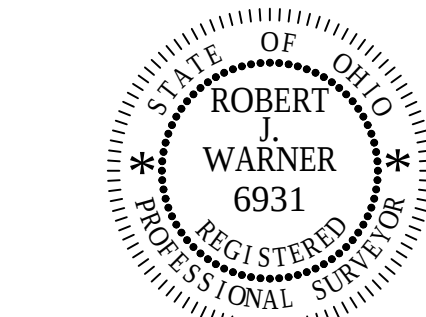
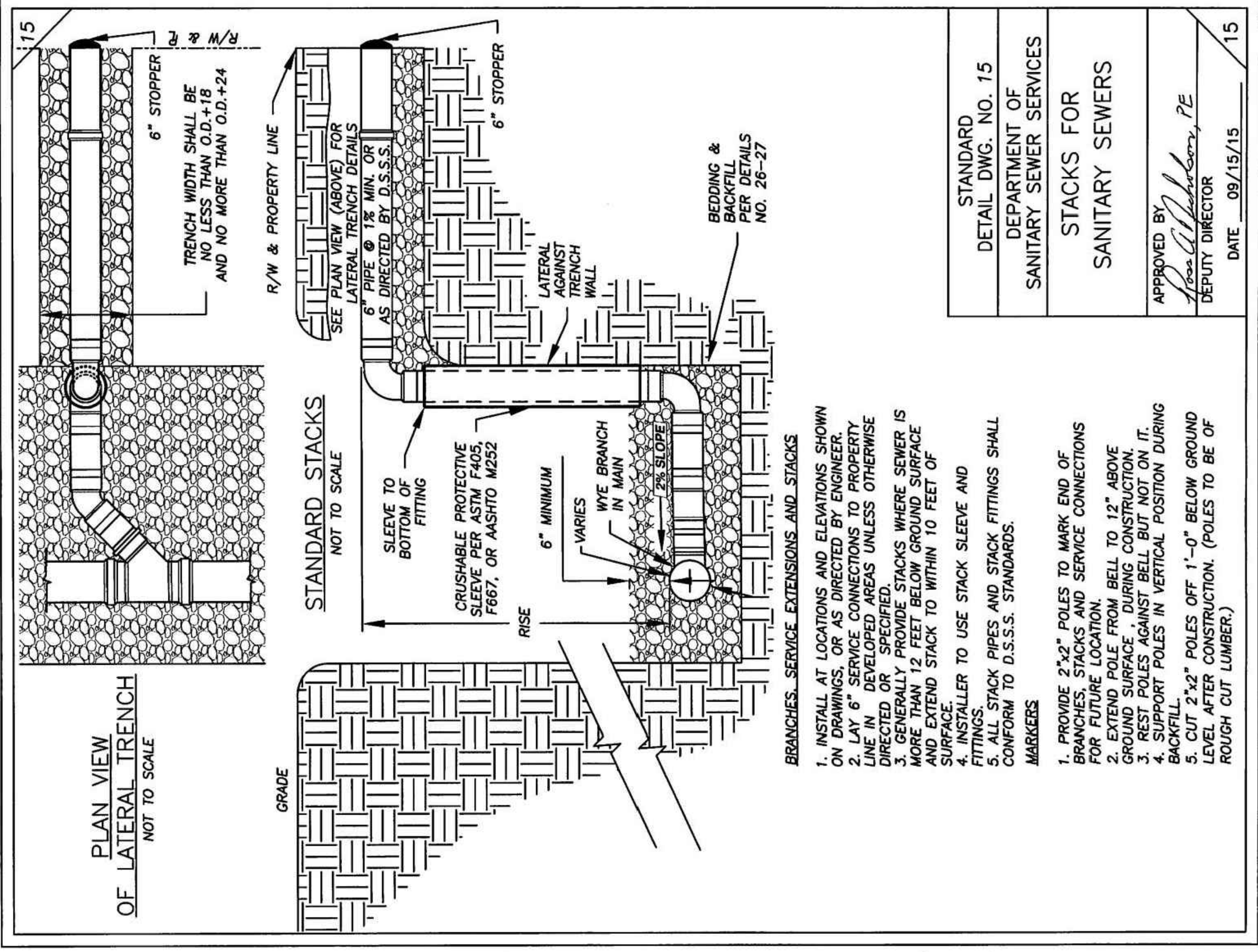
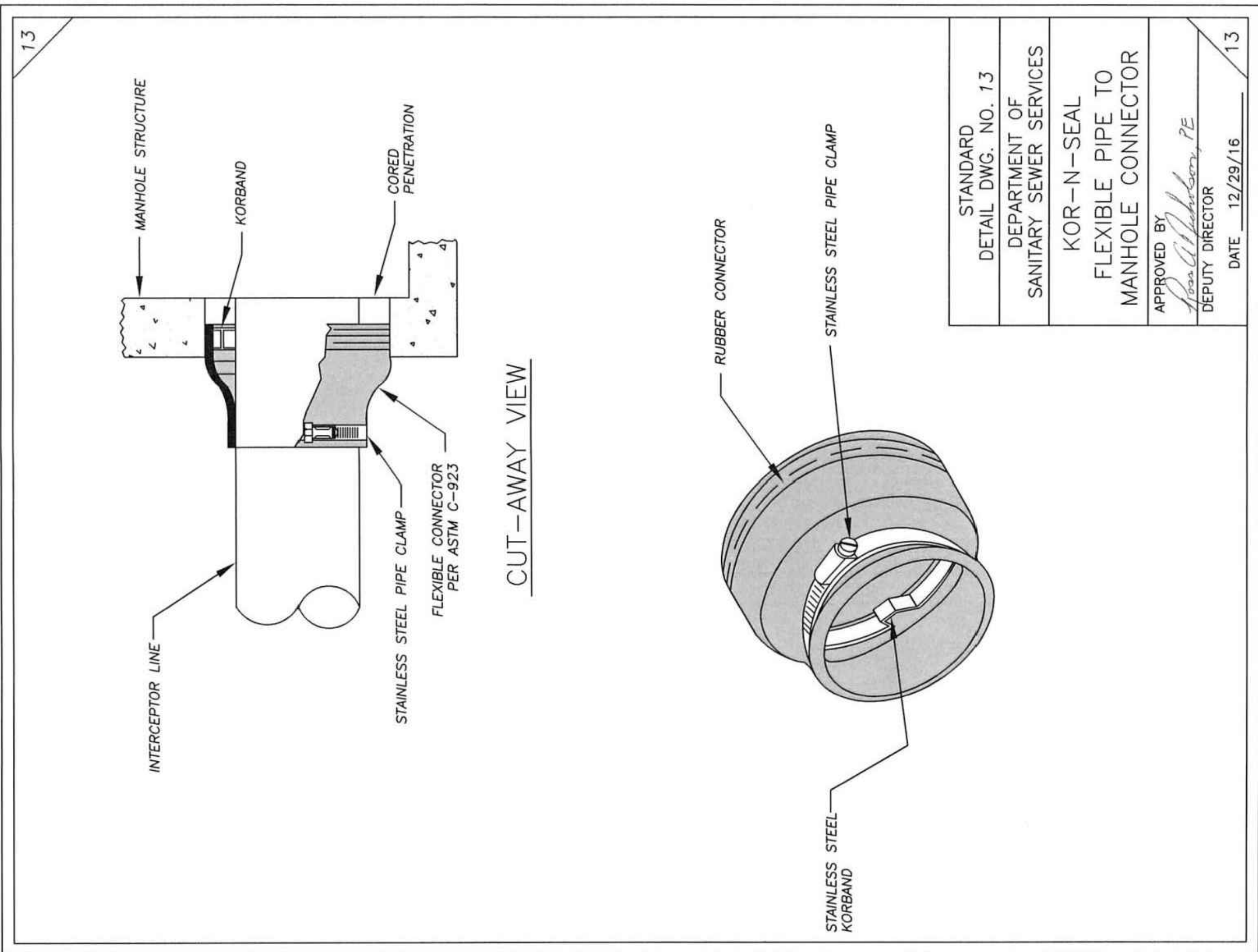
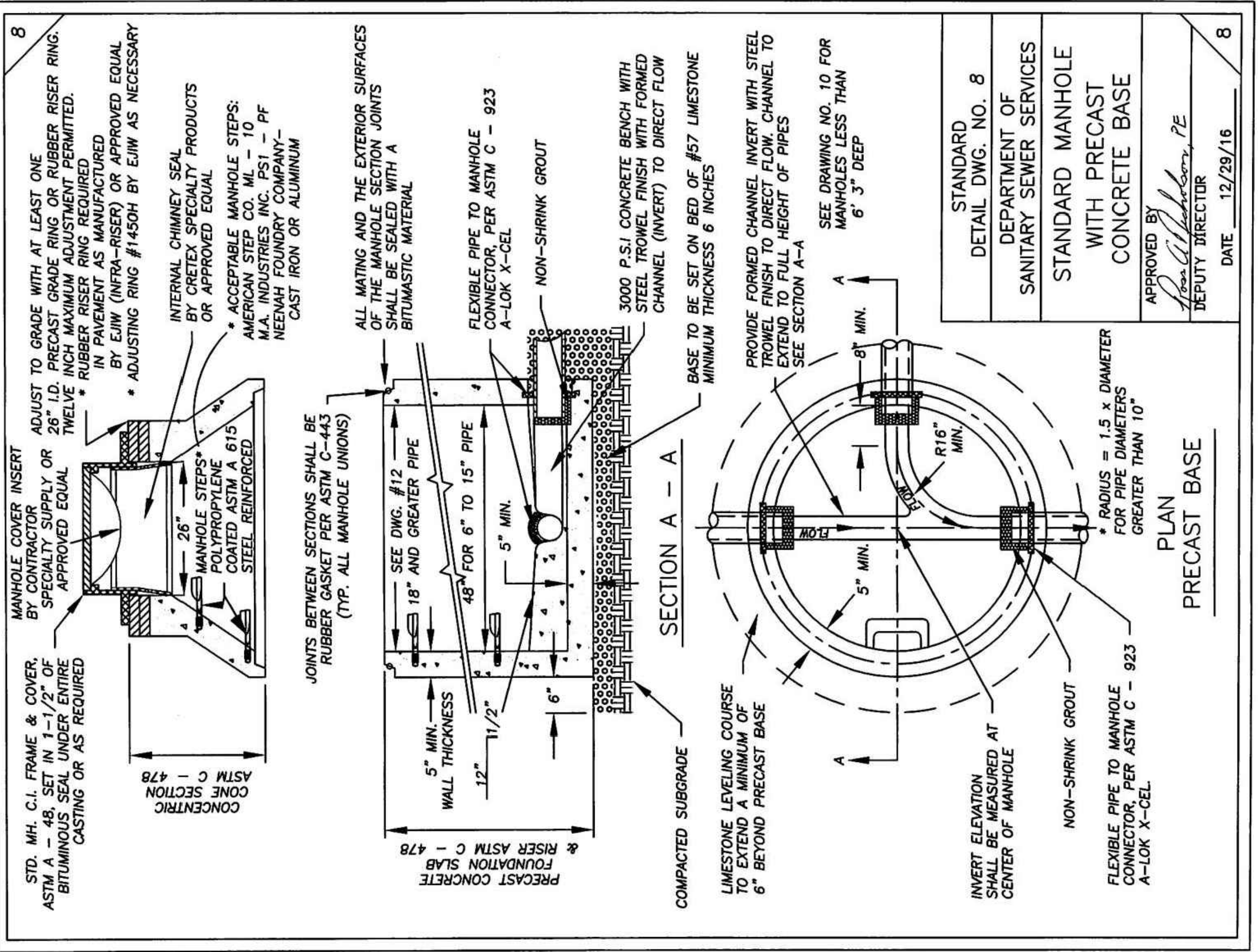
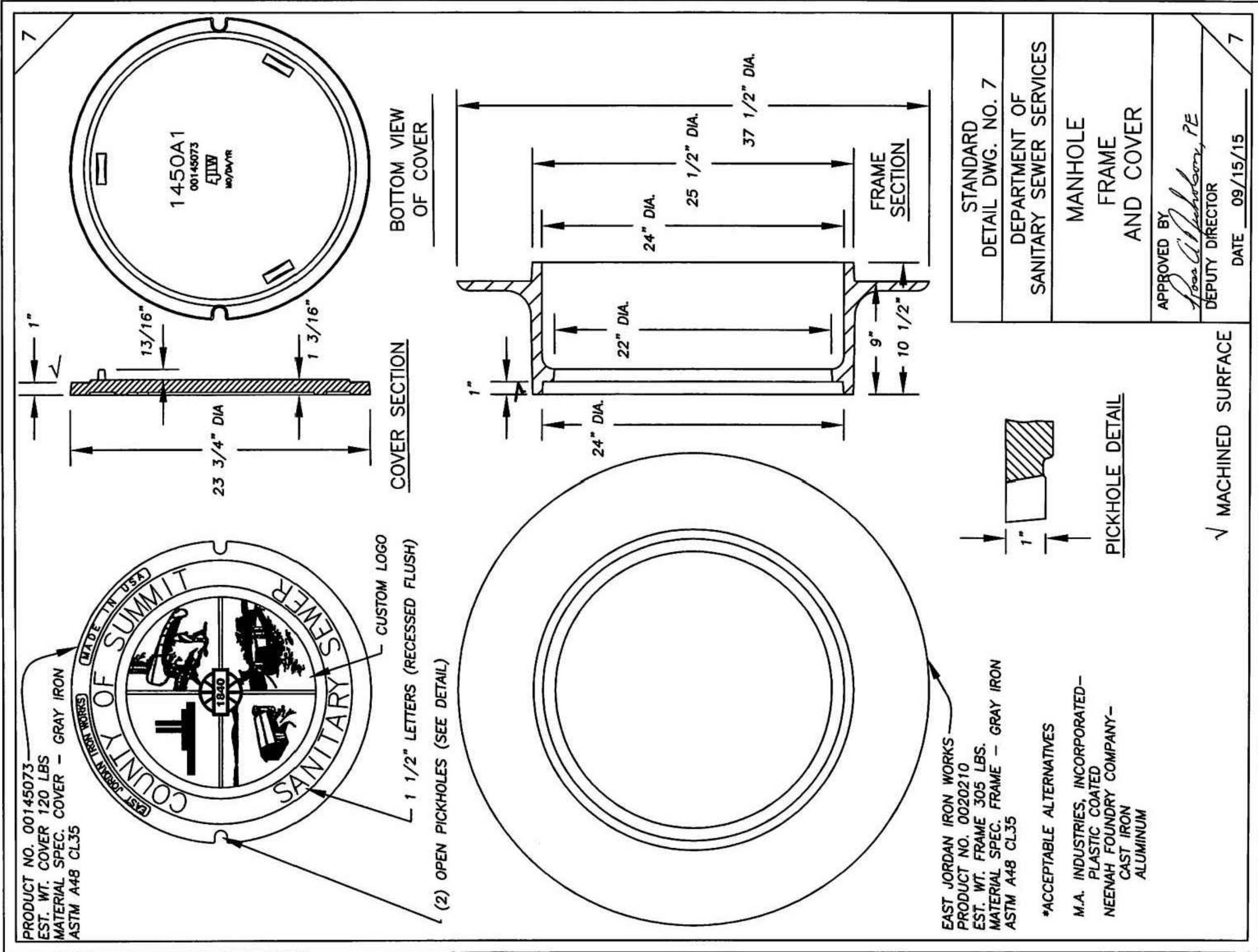
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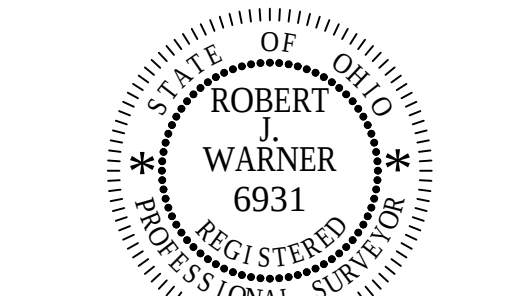
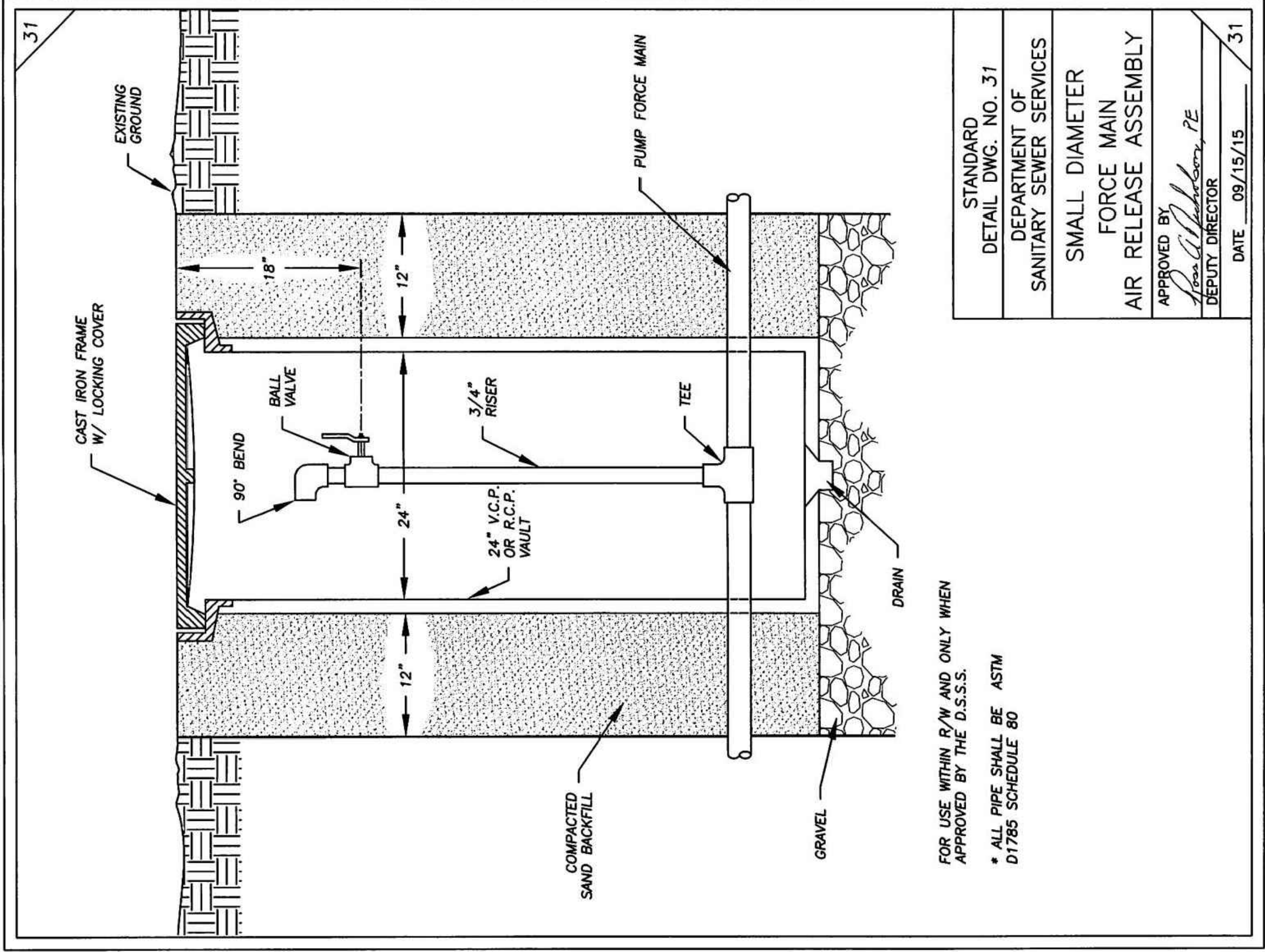
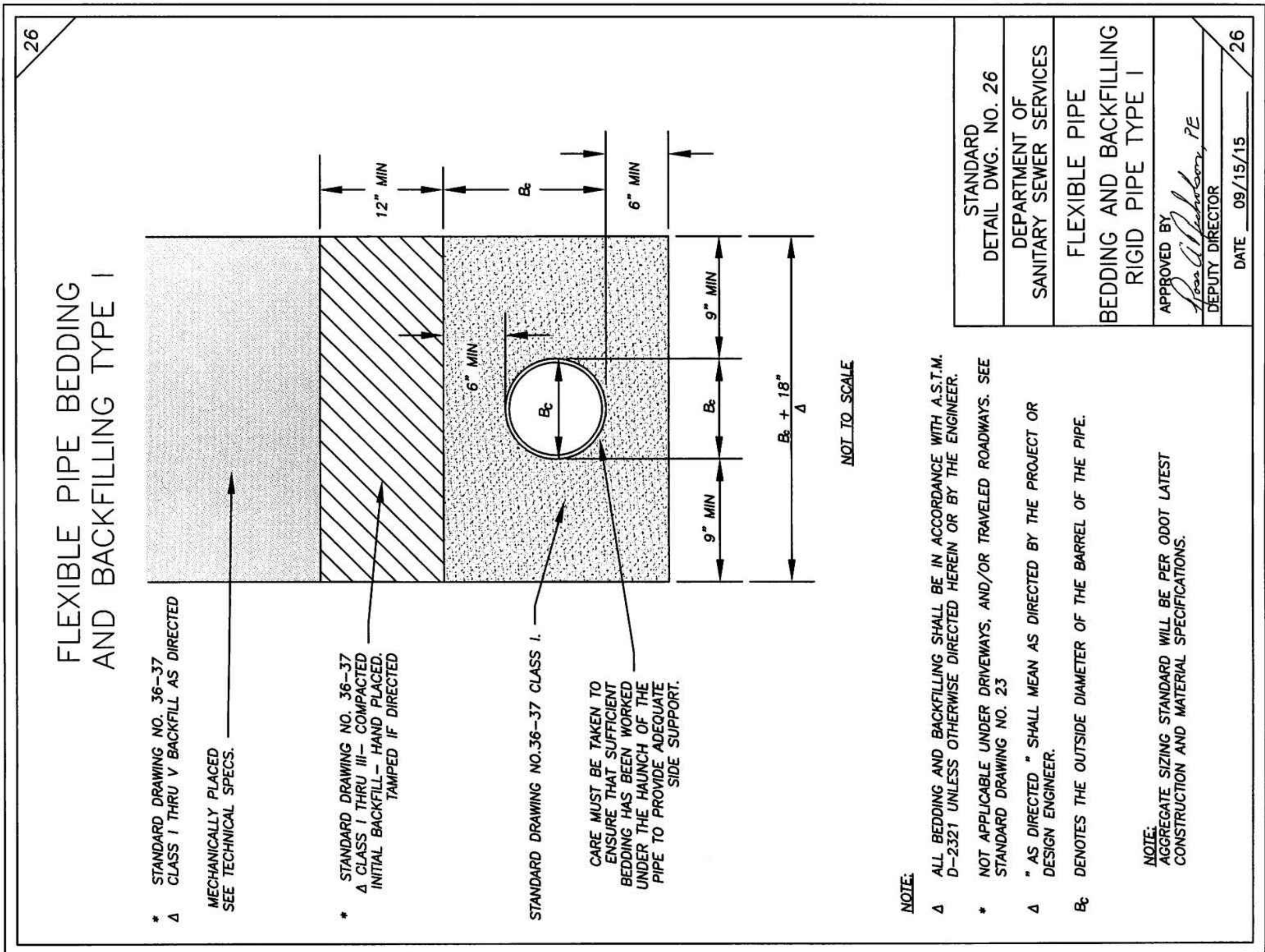
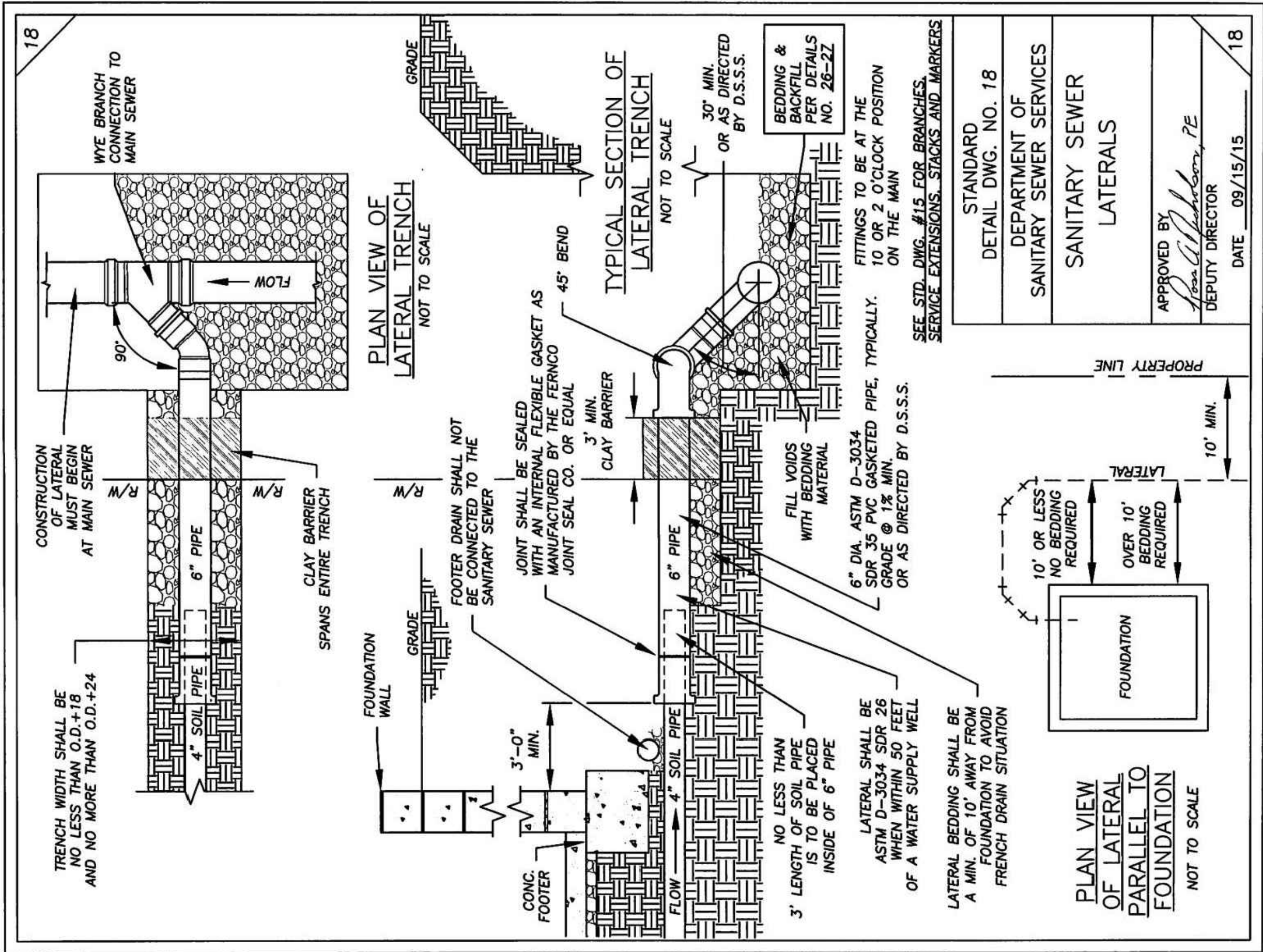
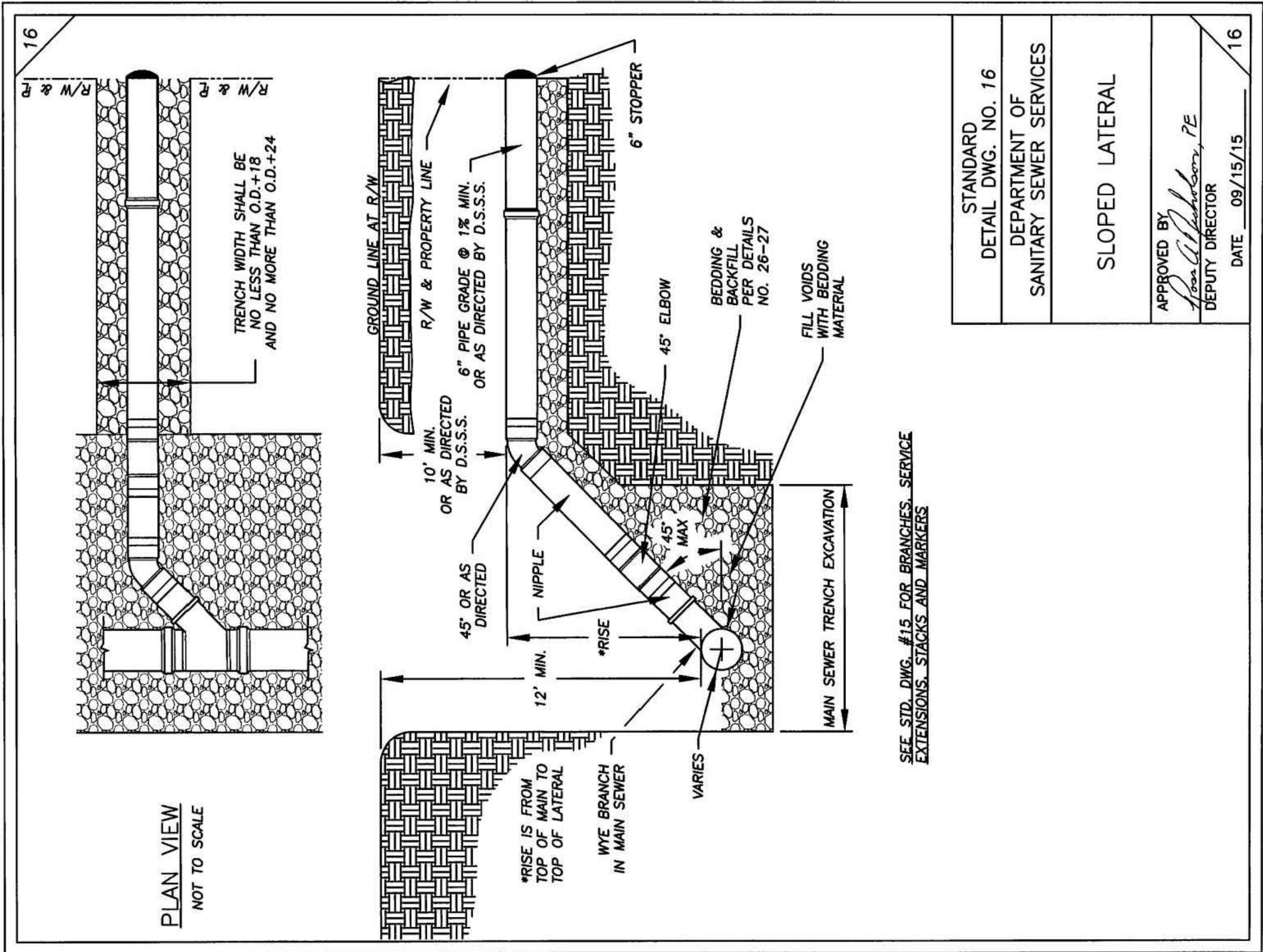
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SUMMIT COUNTY DSSS
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PUBLIC IMPROVEMENTS
CITY OF HUDSON - PHASE 2A
TESTA COMPANIES

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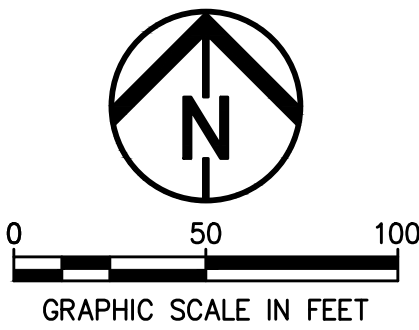
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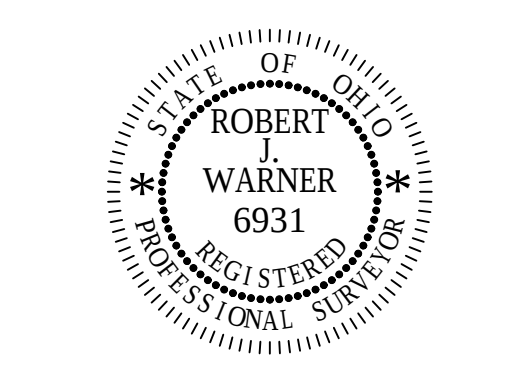
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SUMMIT COUNTY DSSS
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**HUDSON DOWNTOWN PHASE 2
PUBLIC IMPROVEMENTS**
CITY OF HUDSON - PHASE 2A
TESTA COMPANIES



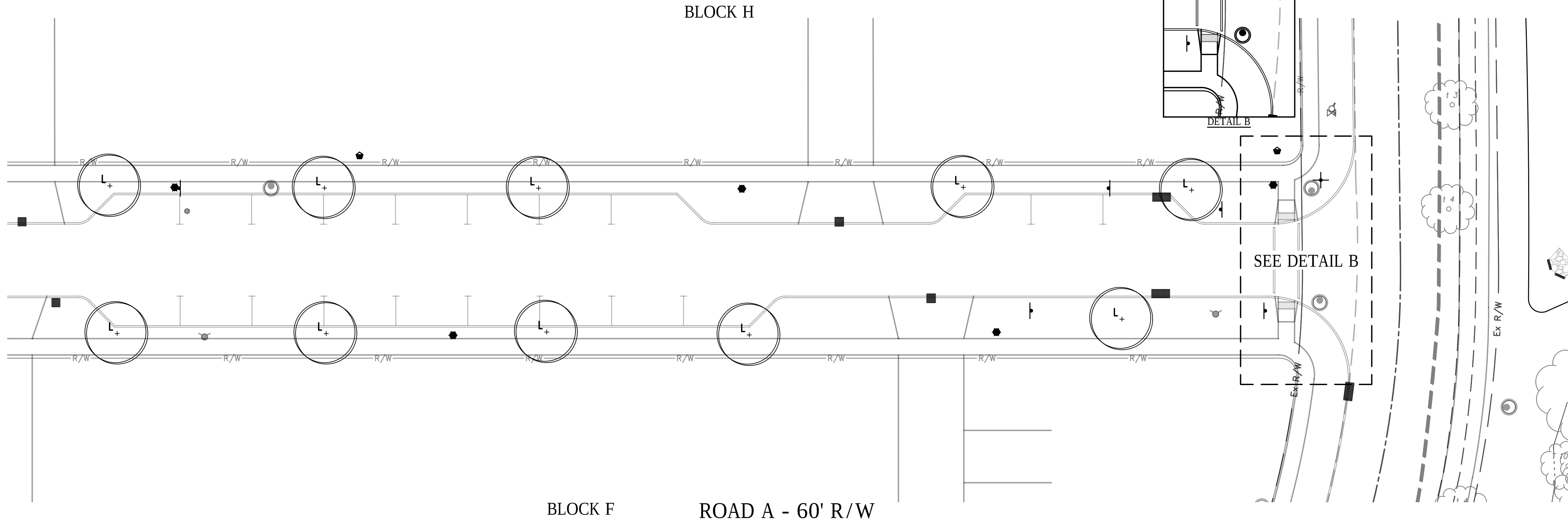
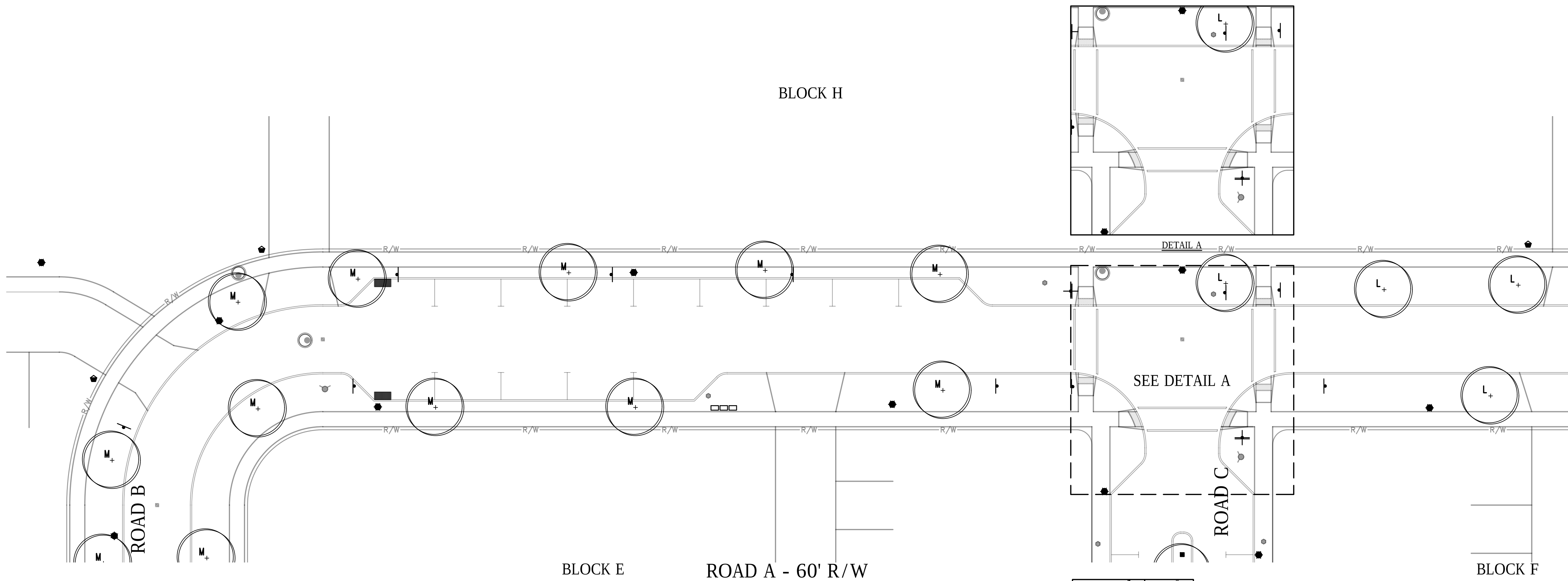
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**LIGHTING & SIGNAGE
PLAN**

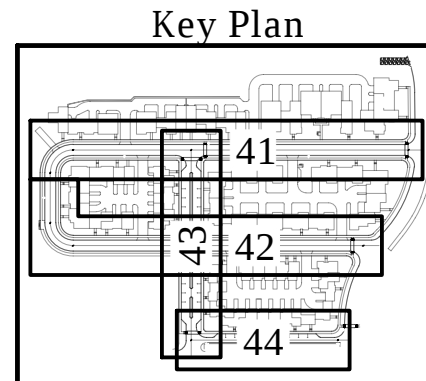
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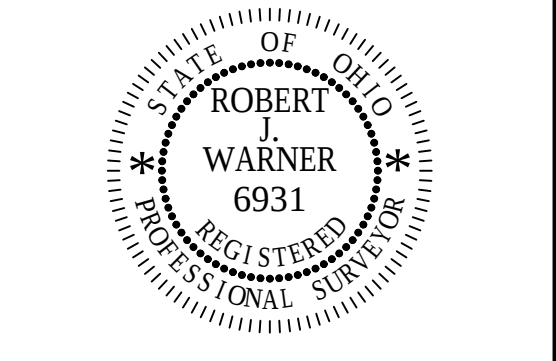
LEGEND

- SHADE TREE
- ORNAMENTAL TREES
- EVERGREEN SHRUBS
- DECIDUOUS SHRUBS
- ORNAMENTAL GRASS
- PERENNIALS
- MULCH BED
- LAWN AREA SEED MIXTURE A

STREET TREES			
L	Acer Rubrum Red Maple	2 1/2"	40 50
M	Gleditsia Triacanthos Honey Locust	2 1/2"	30 40
S1	Paperbark Maple "acer griseum agm"	2 1/2"	20 30
S2	Malus Flowering Crabapple "Robinson"	2 1/2"	20 30



HUDSON DOWNTOWN PHASE 2
PUBLIC IMPROVEMENTS
CITY OF HUDSON - PHASE 2A
TESTA COMPANIES



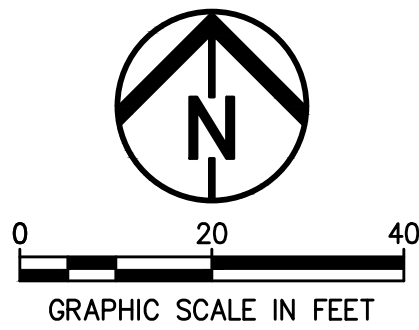
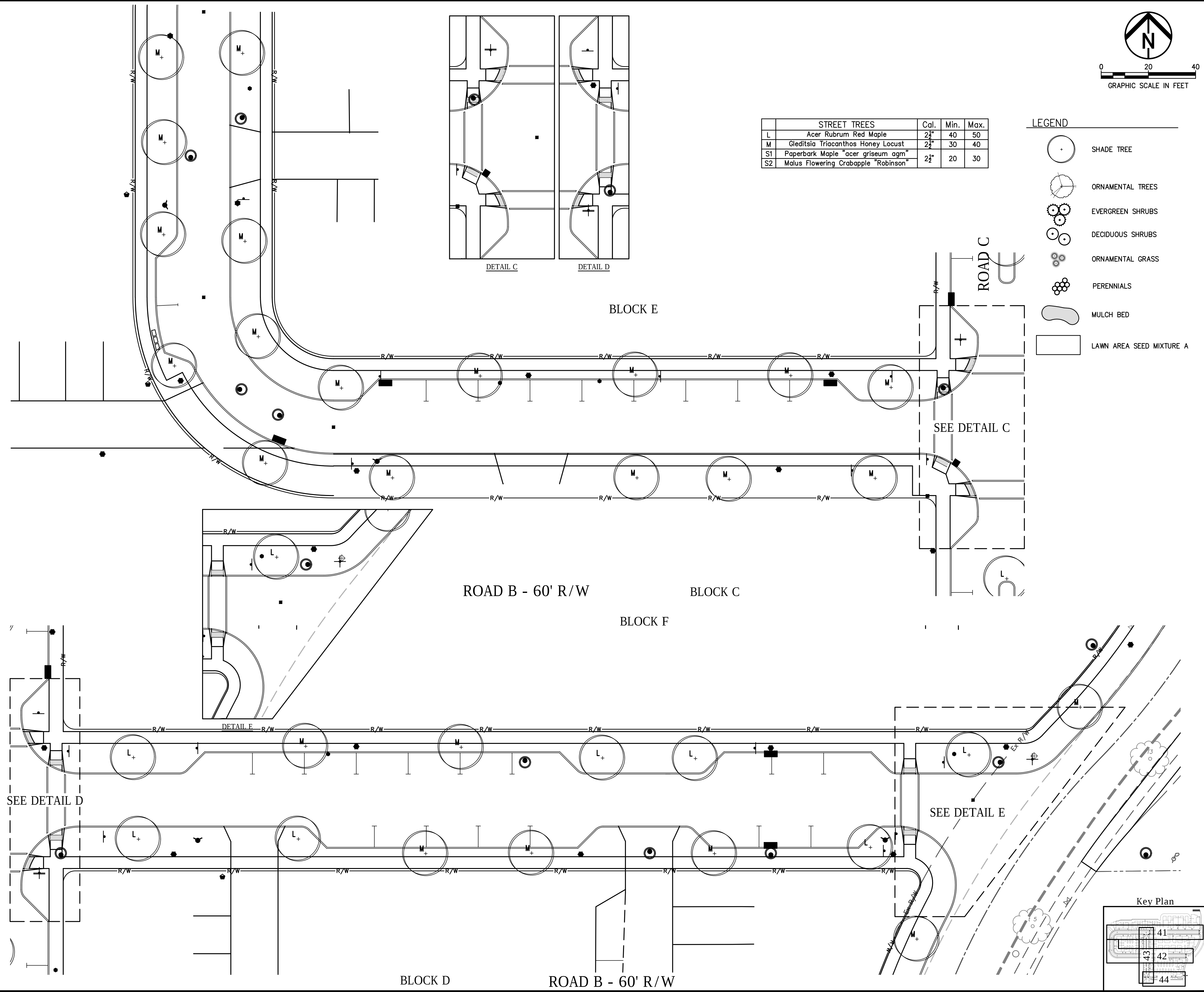
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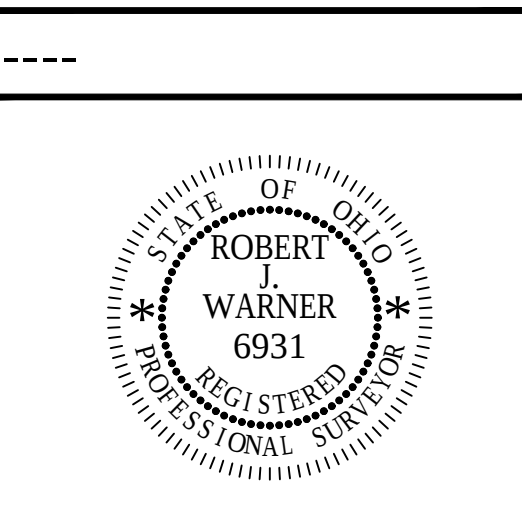
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LANDSCAPE PLAN

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PUBLIC IMPROVEMENTS
CITY OF HUDSON - PHASE 2A
TESTA COMPANIES



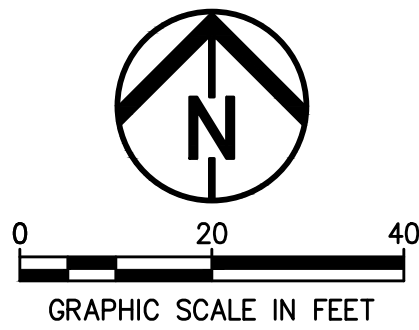
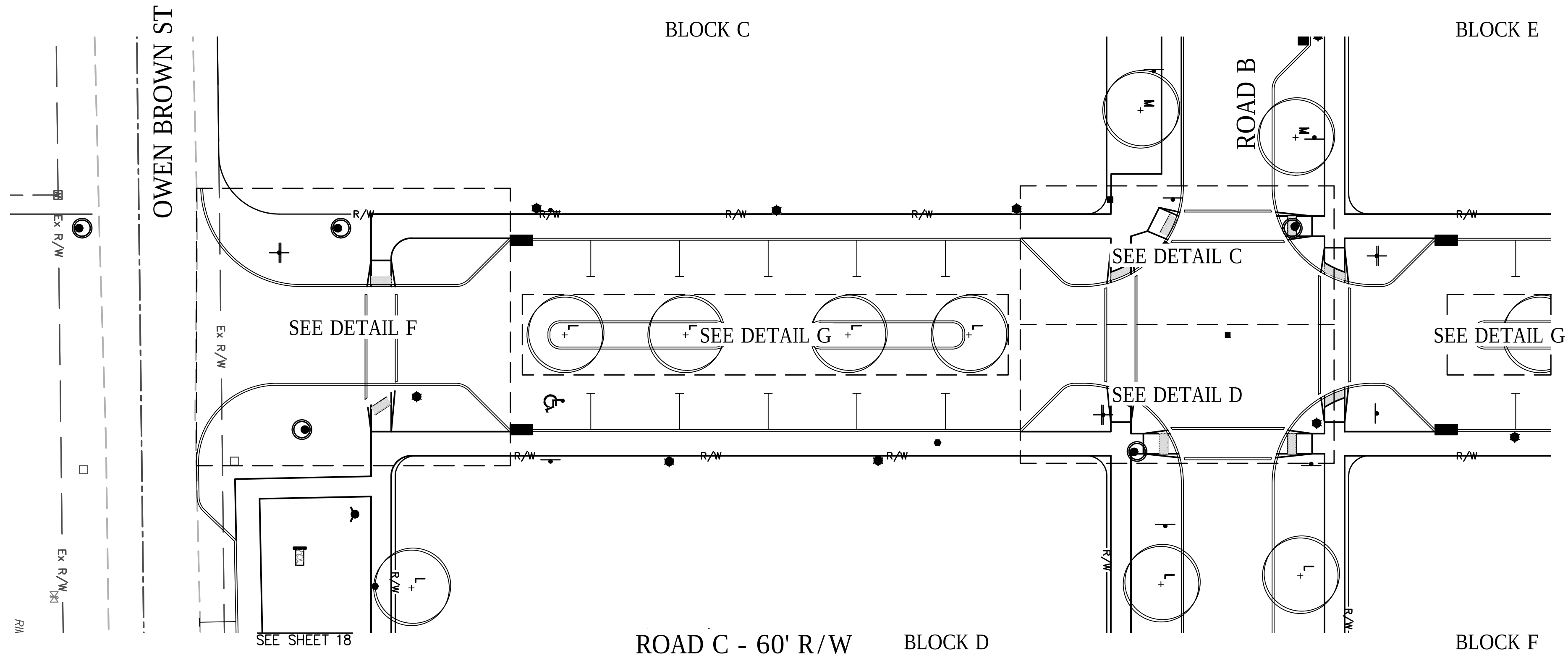
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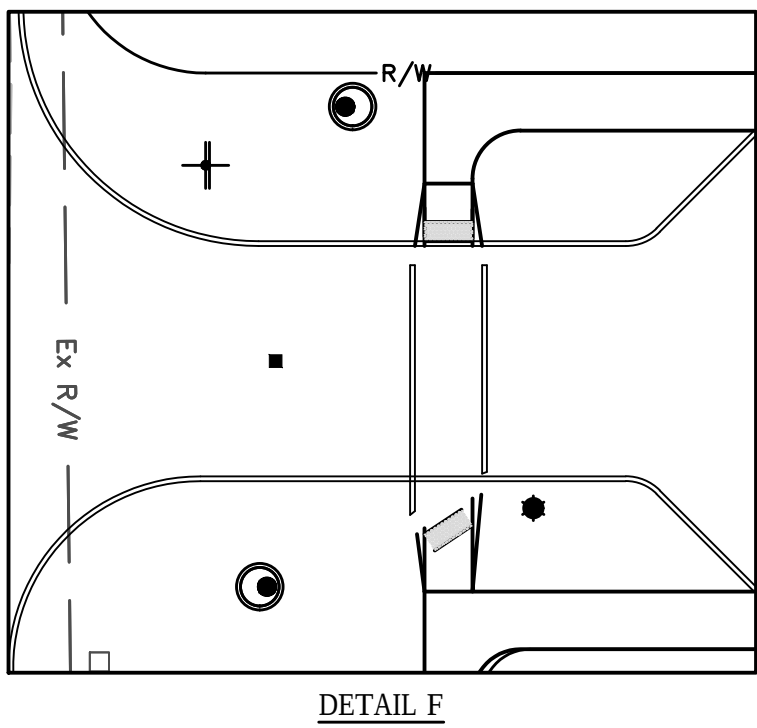
LANDSCAPE PLAN

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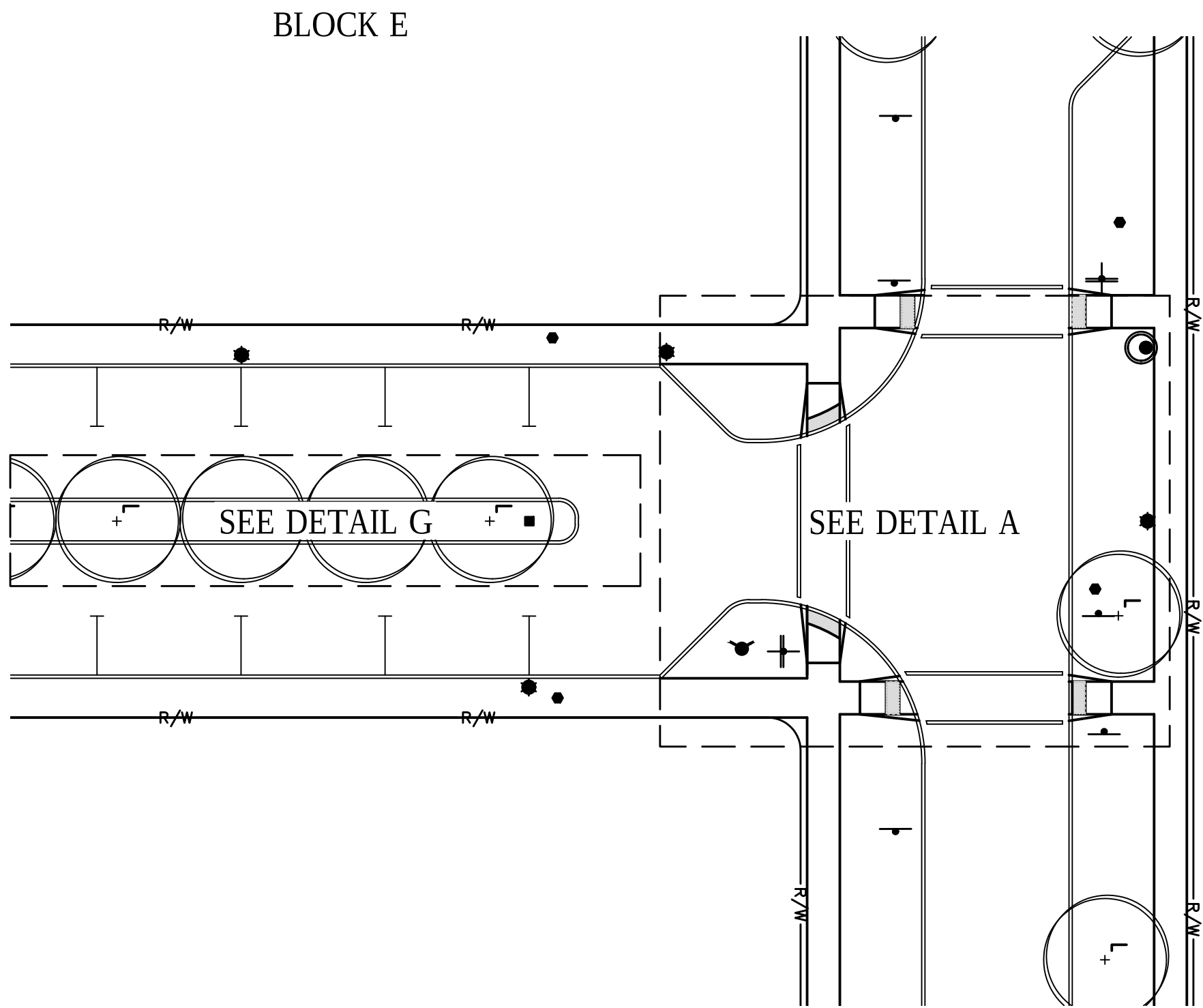


- LEGEND
- SHADE TREE
 - ORNAMENTAL TREES
 - EVERGREEN SHRUBS
 - DECIDUOUS SHRUBS
 - ORNAMENTAL GRASS
 - PERENNIALS
 - MULCH BED
 - LAWN AREA SEED MIXTURE A

STREET TREES		Cal.	Min.	Max.
L	Acer Rubrum Red Maple	2 1/2"	40	50
M	Gleditsia Triacanthos Honey Locust	2 1/2"	30	40
S1	Paperbark Maple "acer griseum agm"	2 1/2"	20	30
S2	Malus Flowering Crabapple "Robinson"	2 1/2"		



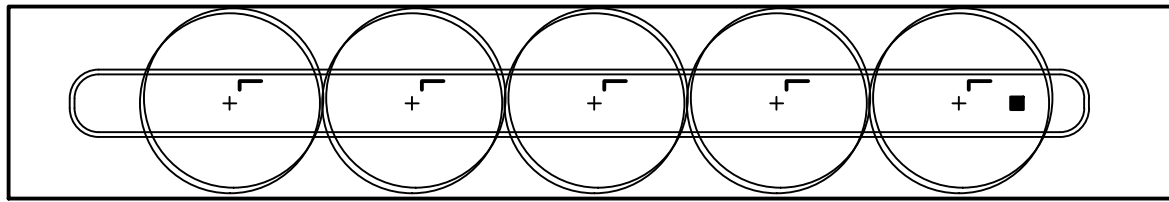
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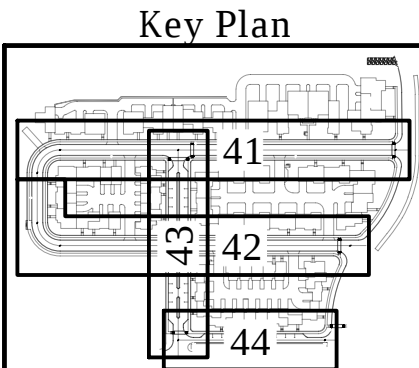
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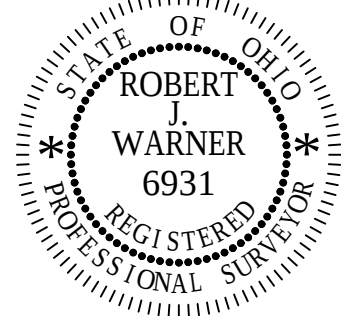
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DETAIL G



HUDSON DOWNTOWN PHASE 2
PUBLIC IMPROVEMENTS
CITY OF HUDSON - PHASE 2A
TESTA COMPANIES



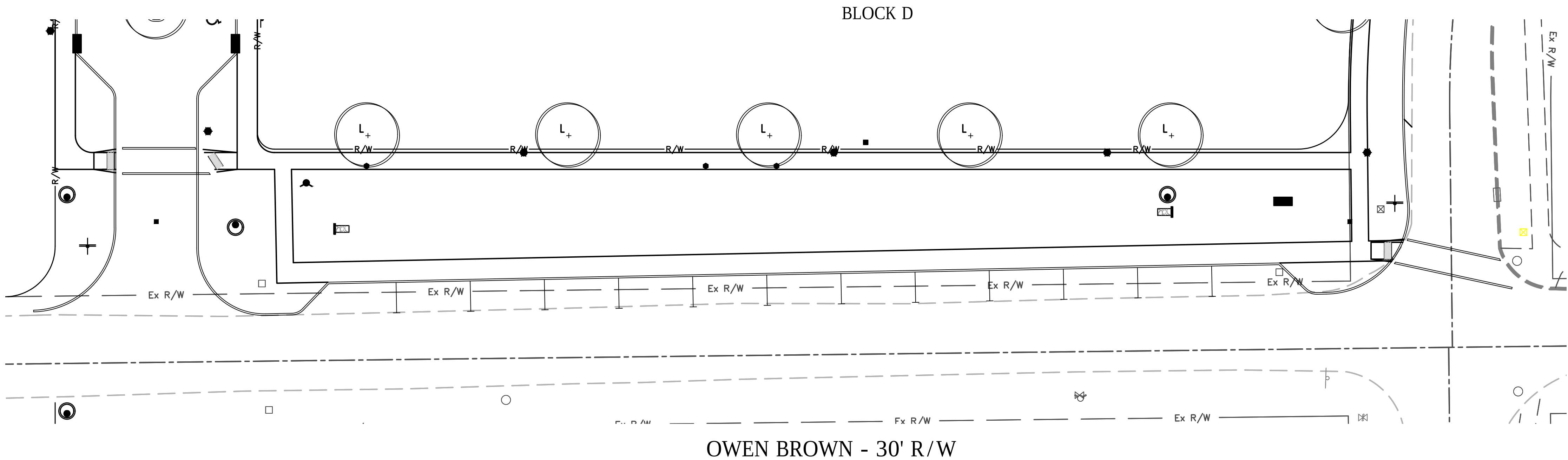
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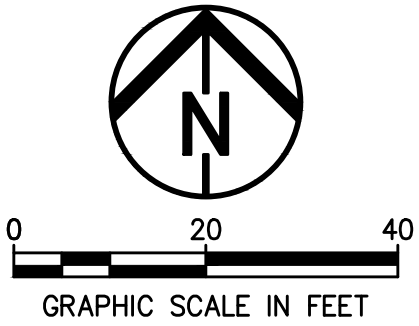
LANDSCAPE PLAN

TESTA COMPANIES 17-00257-020 FIRST & MAIN SITE DESIGN CADD 17 SEP 17 4:02:57 PM - 8/23/2018 11:29:03 AM



STREET TREES				Cal.	Min.	Max.
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M	Gleditsia Triacanthos Honey Locust	2 1/2"		30	40	
S1	Paperbark Maple "acer griseum agm"	2 1/2"		20	30	
S2	Malus Flowering Crabapple "Robinson"	2 1/2"				

LEGEND	
	SHADE TREE
	ORNAMENTAL TREES
	EVERGREEN SHRUBS
	DECIDUOUS SHRUBS
	ORNAMENTAL GRASS
	PERENNIALS
	MULCH BED
	LAWN AREA SEED MIXTURE A



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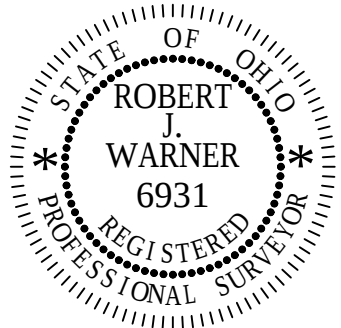
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PUBLIC IMPROVEMENTS

CITY OF HUDSON - PHASE 2A

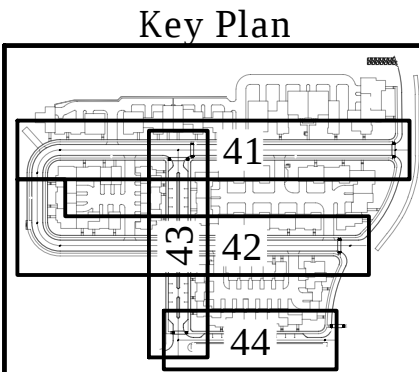
TESTA COMPANIES



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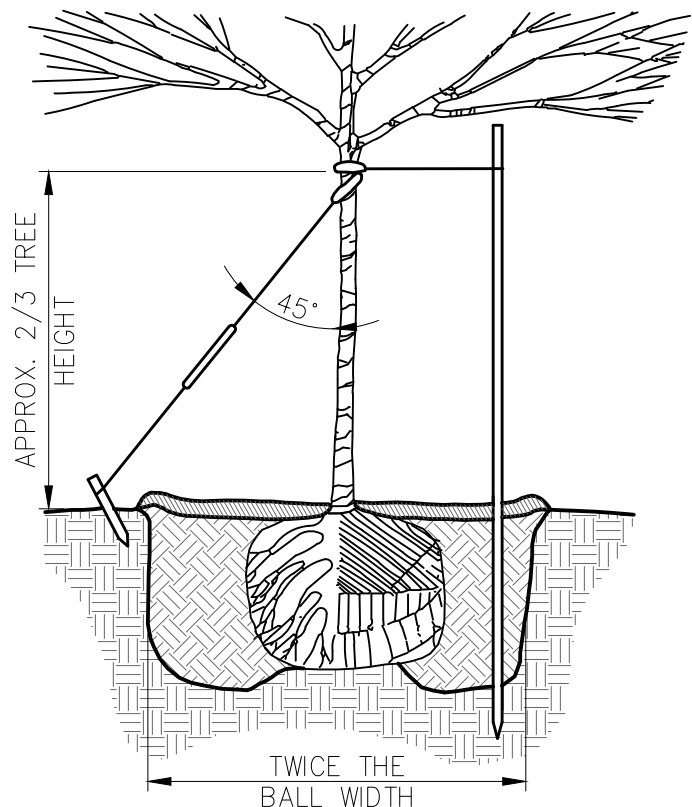
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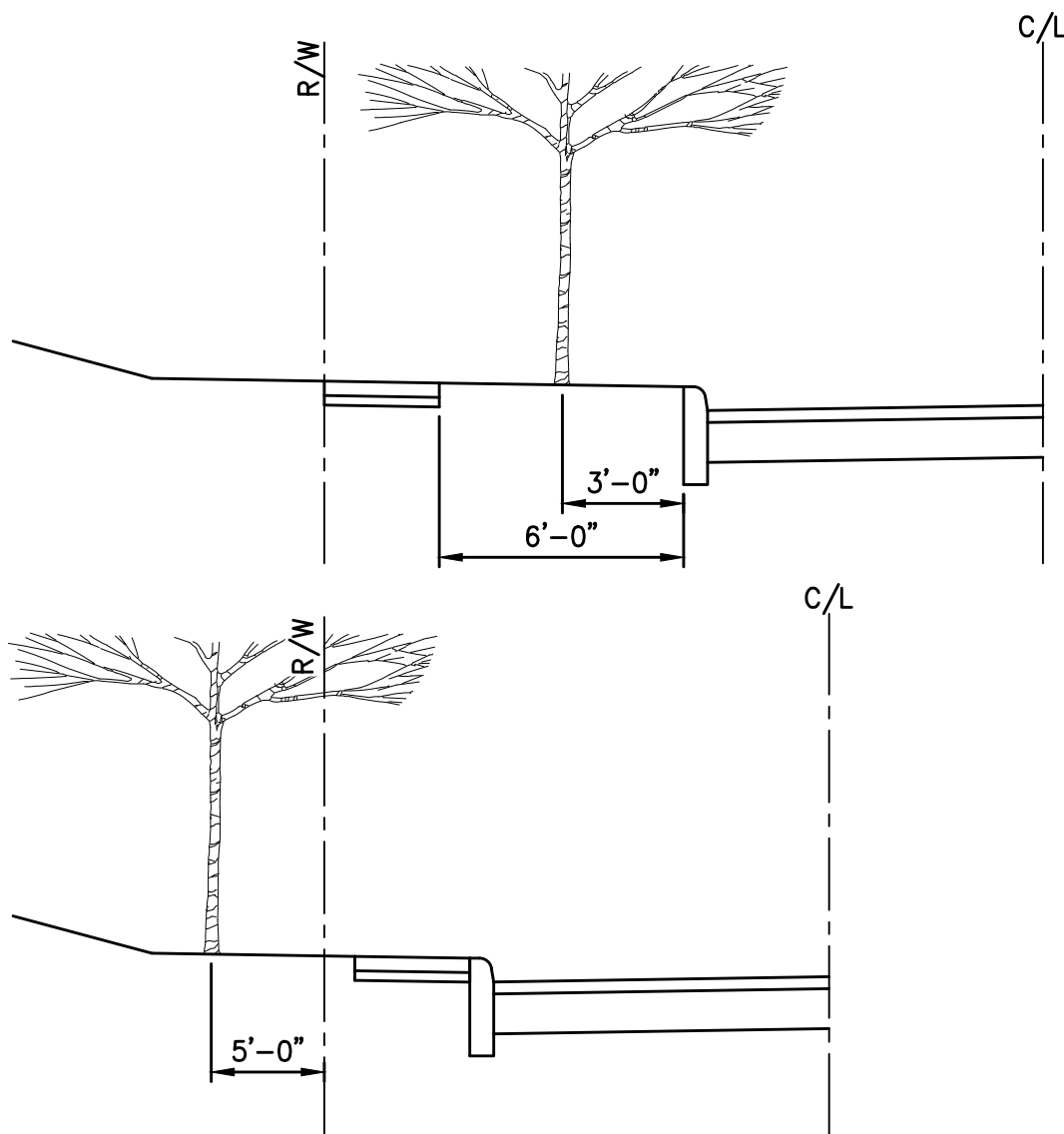
LANDSCAPE PLAN

NOTES:

1. REMOVE BURLAP, WIRE BASKETS AND TWINE FROM TOP AND SIDES OF ROOT BALL. CENTER TREE IN HOLE SET TOP OF BALL 1" ABOVE FINISH GRADE.
2. STAKING & GUYING TREES IS OPTIONAL, HOWEVER THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLED TREES STAYING PLUMB AND STABLE. IF A NON-STAKED TREE MOVES OUT OF PLUMB DURING THE WARRANTY PERIOD THE CONTRACTOR SHALL STRAIGHTEN & STAKE THE TREE AT NO ADDITIONAL COST TO THE OWNER.
3. THE CONTRACTOR SHALL RETURN TO REMOVE ALL STAKES, GUYS & ASSOCIATED HARDWARE ON THE TREES ONE YEAR AFTER STAKING OR PER THE DIRECTION OF THE OWNER OR LANDSCAPE ARCHITECT.



1 DECIDUOUS TREE PLANTING DETAIL
45 NOT TO SCALE



2 TREE LOCATION DETAIL
45 NOT TO SCALE

LANDSCAPE SPECIFICATIONS

1. CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, ETC., AS NECESSARY TO COMPLETE ALL PLANTING AS SHOWN ON THESE DRAWINGS, AS SPECIFIED HEREIN AND/OR AS REQUIRED BY JOB CONDITIONS. THE WORK IN GENERAL INCLUDES, BUT IS NOT LIMITED TO, THE FOLLOWING: (1) PROVIDE ALL PLANT MATERIAL AS INDICATED, (2) EXCAVATION OF PLANT PITS, (3) TOPSOIL BACKFILL FOR PLANT PITS, (4) FERTILIZING, GUYING, WRAPPING, (5) MAINTENANCE AND GUARANTEE, (6) ALL OTHER ITEMS NECESSARY TO MAKE WORK COMPLETE.

2. PLANT MATERIAL SHALL BE HIGH QUALITY NURSERY-GROWN MATERIALS FROM HARDINESS ZONES 4 AND 5, AS ESTABLISHED BY THE ARNOLD ARBORETUM, EXCEPT AS APPROVED BY THE LANDSCAPE ARCHITECT, SOUND AND FREE OF DISEASE OR INSECT INFESTATION. PLANTS SHALL BE FRESHLY DUG AND SHALL CONFORM WITH REQUIREMENTS AS ESTABLISHED IN THE ANSI Z 60.1, AMERICAN STANDARD FOR NURSERY STOCK.

3. THE NAMES OF PLANTS REQUIRED UNDER THIS CONTRACT SHALL CONFORM TO THOSE GIVEN IN STANDARDIZED PLANT NAMES, 1942 EDITION, PREPARED BY THE AMERICAN JOINT COMMITTEE ON HORTICULTURAL NOMENCLATURE. NAMES OF VARIETIES NOT INCLUDED THEREIN SHALL CONFORM GENERALLY WITH NAMES ACCEPTED IN THE NURSERY TRADE. PLANTS SHALL HAVE A HABIT OF GROWTH THAT IS NORMAL FOR THE SPECIES AND SHALL BE SOUND, HEALTHY, VIGOROUS, WITH WELL DEVELOPED ROOT SYSTEMS AND FREE FROM INSECT PESTS, PLANT DISEASES, AND INJURIES. ALL PLANTS SHALL EQUAL OR EXCEED THE MEASUREMENTS SPECIFIED IN THE PLANT LIST, WHICH ARE MINIMUM ACCEPTABLE SIZES. TREES SHALL HAVE SINGLE TRUNKS EXCEPT AS NOTED. ALL SHRUBS SHALL BE HEALTHY, VIGOROUS, AND OF GOOD COLOR. ANY NECESSARY PRUNING SHALL BE DONE AT THE TIME OF PLANTING. HOWEVER, NO PLANT SUPPLIED UNDER THIS CONTRACT SHALL BE PRUNED BACK TO SUCH EXTENT THAT IT NO LONGER MEETS SPECIFICATIONS. REQUIREMENTS FOR THE MEASUREMENTS, BRANCHING, GRADING, QUALITY, BALLING, AND BURLAPPING OF PLANTS IN THE PLANT LIST GENERALLY FOLLOW THE CODE OF STANDARDS CURRENTLY RECOMMENDED BY THE AMERICAN STANDARD FOR NURSERY STOCK. SUBSTITUTIONS WILL BE PERMITTED ONLY UPON SUBMISSION OF PROOF THAT ANY PLANT IS NOT OBTAINABLE AND AUTHORIZATION BY THE OWNER OR OWNER'S REPRESENTATIVE OF A CHANGE ORDER PROVIDING FOR USE OF THE NEAREST EQUIVALENT OBTAINABLE SIZE OR VARIETY OF PLANT HAVING THE SAME ESSENTIAL CHARACTERISTICS WITH AN EQUITABLE ADJUSTMENT OF CONTRACT PRICE.

4. THE CONTRACTOR MAY USE TOPSOIL AFTER SECURING SOIL TEST (V.P.I.) AND APPLYING RECOMMENDED TREATMENT THEREOF. TOPSOIL SHALL BE FRIABLE, FERTILE, FINE LOAM OF NATURAL CHARACTERIZATIONS TYPICAL OF TOPSOIL OF LOCALITY, FREE OF NOXIOUS WEEDS, STONES LARGER THAN TWO INCHES, AND ALL OTHER DELETERIOUS MATERIAL.

5. FERTILIZER SHALL BE 5-10-5 STANDARD PRODUCT OF A RECOGNIZED MANUFACTURER OF COMMERCIAL FERTILIZER AND SHALL CONFORM TO THE APPLICABLE STATE AND LOCAL FERTILIZER LAWS. IT SHALL BE UNIFORM IN COMPOSITION, DRY AND FREE FLOWING, SHALL NOT BE STORED IN DIRECT CONTACT WITH THE GROUND AND SHALL BE DELIVERED TO THE SITE IN THE ORIGINAL, UNOPENED CONTAINERS, BEARING THE MANUFACTURER'S GUARANTEED ANALYSIS.

6. PEAT HUMUS SHALL BE PULVERIZED HORTICULTURAL GRADE SPHAGNUM MOSS FREE FROM EXTRANEOUS MATERIAL. PEAT MOSS SHALL BE THOROUGHLY MOISTENED PRIOR TO USE.

7. THE CONTRACTOR SHALL MAKE, AT HIS EXPENSE, WHATEVER ARRANGEMENTS MAY BE NECESSARY TO ENSURE AN ADEQUATE SUPPLY OF WATER TO MEET THE NEEDS OF THIS CONTRACT. HE SHALL ALSO FURNISH ALL NECESSARY HOSE, EQUIPMENT ATTACHMENTS AND ACCESSORIES FOR THE ADEQUATE IRRIGATION OF LAWNS AND PLANTED AREAS AS MAY BE REQUIRED.

8. MULCH SHALL BE CLEAN, SHREDDED HARDWOOD BARK MULCH, AGED TWO (2) YEARS. APPLY THREE (3) INCHES IN DEPTH OVER ALL BEDS, SHRUBS AND TREE PLANTINGS.

9. BALLED AND BURLAPPED PLANTS (B&B) SHALL BE DUG WITH FIRM, NATURAL BALLS OF EARTH OF SUFFICIENT DIAMETER AND DEPTH TO ENCOMPASS THE FIBROUS AND FEEDING ROOT SYSTEM NECESSARY FOR FULL RECOVERY OF THE PLANT. BALLS SHALL BE FIRMLY WRAPPED WITH BURLAP OR SIMILAR MATERIAL AND BOUND WITH TWINE OR CORD. B&B PLANTS WHICH CANNOT BE PLANTED IMMEDIATELY UPON DELIVERY SHALL BE COVERED WITH MOIST SOIL OR MULCH, OR OTHER PROTECTION FROM DRYING WINDS AND SUN. BARE-ROOTED PLANTS (BR) SHALL BE PLANTED OR HEELED-IN IMMEDIATELY UPON DELIVERY. ALL PLANTS SHALL BE WATERED AS NECESSARY UNTIL PLANTED.

10. PLANT PITS SHALL BE OF AMPLE SIZE TO ACCOMMODATE THE INDIVIDUAL EARTH BALL OR ROOT SPREAD OF EACH PLANT AND TO ALLOW FOR THE SPECIFIED AMOUNT OF TOPSOIL MIXTURE AROUND THE BALL OR ROOTS. PLACE BALL OF PLANT ON UNDISTURBED EARTH IN BOTTOM OF PIT. IF PLANT PITS ARE AUGURED, SIDE AND BOTTOM OF HOLE SHALL BE BROKEN DOWN TO PERMIT ROOT PENETRATION.

11. WHEN SOIL EXCAVATED FROM PLANT PITS IS OF SUITABLE QUALITY, IT MAY BE USED AS BACKFILL TO WITHIN SIX (6) INCHES OF THE SURFACE FOR TREES. THE REMAINDER SHALL BE BACKFILLED WITH A UNIFORM MIX OF FOUR (4) PARTS TOPSOIL TO ONE (1) PART OF PEAT HUMUS. SHRUB PIT AND PERENNIAL PIT BACKFILL SHALL CONSIST ENTIRELY OF THE TOPSOIL/PEAT MIX.

12. ALL PLANTS SHALL BE PLANTED UPRIGHT AND FACED TO GIVE THE BEST APPEARANCE OR RELATIONSHIP TO ADJACENT STRUCTURES. LOOSEN AND FOLD APPROXIMATELY UPPER ONE-THIRD (1/3) OF BURLAP ON B&B PLANTS PRIOR TO BACKFILLING. TREES SHALL BE SUPPORTED IMMEDIATELY AFTER PLANTING. ALL TREES SHALL BE STAKED AS DETAILED.

13. GROUNDCOVERS SHALL BE PLANTED IN BEDS HAVING A MINIMUM DEPTH OF EIGHT (8) INCHES. SCARIFY SUBGRADE TO A DEPTH OF EIGHT (8) INCHES. REMOVE ROCKS AND OTHER DEBRIS LARGER THAN ONE (1) INCH DIAMETER. INCORPORATE ONE-HALF (1/2) OF THE REQUIRED TOPSOIL. PLACE REMAINING TOPSOIL TO FINISHED GRADES AND INCORPORATE THE REQUIRED NUTRIENTS. EDGE BEDS TO FORM SHARP MAINTENANCE LINES BETWEEN LAWN AND BED AREAS. PLANTS SHALL BE EVENLY SPACED AND SET TO FINISHED GRADE LEVEL. MULCH WITH A THREE (3) INCH LAYER OF HARDWOOD MULCH.

14. CONTRACTOR SHALL MAINTAIN ALL PLANT MATERIAL WITHIN THE LIMITS OF WORK UNTIL FINAL INSPECTION AND ACCEPTANCE OF THE PROJECT BY THE OWNER. MAINTENANCE SHALL INCLUDE WATERING DURING DRY PERIODS AS DIRECTED BY THE LANDSCAPE ARCHITECT, WEEDING, CULTIVATING, PRUNING, REFERTILIZATION, APPLICATION OF ANTI-DESSICANT, AND CONTROL OF INSECTS, FUNGUS AND OTHER DISEASES BY MEANS OF SPRAYING WITH AN APPROVED INSECTICIDE OR FUNGICIDE. ALL WEEDS WITHIN THE MULCHED AREA SHALL BE REMOVED AS OFTEN AS REQUIRED. UNDER NO CIRCUMSTANCES SHALL WEEDS BE ALLOWED TO ATTAIN MORE THAN SIX (6) INCHES OF GROWTH. REMOVE ALL TREE GUYS, TREE WRAP AND ANY PLASTIC OR METAL TIES FROM TREES ONE (1) YEAR FROM PLANTING.

15. NURSERY STOCK SHALL BE FULLY GUARANTEED FOR ONE (1) FULL YEAR. ALL PLANTS THAT FAIL TO MAKE NEW GROWTH FROM A DORMANT CONDITION OR THAT DIE DURING THE FIRST YEAR AFTER PLANTING SHALL BE REPLACED. ALL REPLACEMENTS SHALL CONFORM WITH THE ORIGINAL SPECIFICATIONS AS TO SIZE AND TYPE. THEY SHALL BE FURNISHED AND PLANTED AS SPECIFIED UNDER PLANTING AND COST SHALL BE BORNE BY THE CONTRACTOR EXCEPT FOR POSSIBLE REPLACEMENT, RESULTING FROM REMOVAL, LOSS OR DAMAGE DUE TO OCCUPANCY OF THE PROJECT IN ANY PART BY THE OWNER.

16. FINAL ACCEPTANCE OF THIS CONTRACT SHALL TAKE PLACE AFTER REPLACEMENT OPERATION IS SATISFACTORILY COMPLETED AND ALL PLANTS ARE IN A HEALTHY GROWING CONDITION.

1. SEED ALL DISTURBED AREAS WITH SEED MIX AS LABELED ON DRAWINGS. SEED AT THE RATE NOTED. AREAS DISTURBED OUTSIDE THE LIMITS OF WORK SHALL BE SEEDED AT THE CONTRACTOR'S OWN EXPENSE.

2. SEED & MULCH SHALL BE APPLIED AS SPECIFIED IN ODOT SECTION 659.09.

3. MULCH SEEDED AREAS WITH PENNMULCH® (SEED ESTABLISHMENT MULCH). PENNMULCH® IS PELLETTIZED NEWSPRINT AND OTHER RECYCLED PAPER, IMPREGNATED WITH LIQUID FERTILIZER AND SUPER ABSORBENT POLYMER. IT MAINTAINS MOISTURE IMPROVING THE GERMINATION PROCESS.

4. MULCH WITHIN FORTY-EIGHT (48) HOURS OF SEEDING.

5. MAINTAIN 'TEMPORARY COVER SEED' AREAS BY WATERING, REMULCHING AND REPLANTING AS NECESSARY TO ESTABLISH A UNIFORMLY DENSE STAND OF SPECIFIED GRASS UNTIL ACCEPTED.

6. MAINTAIN LAWN SEED AREAS BY WATERING, MOWING AND REPLANTING AS NECESSARY UNTIL THE THIRD CUTTING AND AS MUCH LONGER AS NECESSARY TO ESTABLISH A UNIFORMLY DENSE STAND OF SPECIFIED GRASS AND UNTIL ACCEPTED. MAKE THE FIRST CUTTING WHEN GRASS HAS REACHED A HEIGHT OF THREE (3) INCHES, CUT TO TWO AND ONE-HALF (2 1/2) INCHES.

7. SCATTERED BARE SPOTS, SMALLER THAN ONE (1) SQUARE FOOT, WILL BE ALLOWED UP TO FIVE (5) PERCENT OF THE SEEDED AREAS. ANY AREAS FAILING TO ESTABLISH A STAND SHALL BE RESEEDED, REFERTILIZED AND REMULCHED AS DIRECTED BY THE OWNER OR OWNER'S REPRESENTATIVE AT NO ADDITIONAL COST TO THE OWNER. RESEEDING SHALL CONFORM IN ALL RESPECTS TO THESE SPECIFICATIONS.

TEMPORARY COVER SEED: (RATE PLS: 130LB/AC)

	PROPORTION BY WEIGHT	MINIMUM PURITY	MINIMUM GERMINATION
LOLIUM MULTIFLORUM, VAR.....	100%	100%	100%
ANNUAL RYEGRASS			

PERMANENT LAWN SEED "TYPE A": (RATE PLS: 300LB/AC)

	PROPORTION BY WEIGHT	MINIMUM PURITY	MINIMUM GERMINATION
LOLIUM PERENNE, VAR. 'MANHATTAN III'.....	20%	98%	90%
PERENNIAL RYEGRASS			
FESTUCA ARUNDINACEA, VAR. 'MILLENNIUM'.....	35%	98%	90%
TALL FESCUE			
FESTUCA ARUNDINACEA, VAR. 'JAGUAR 3'.....	35%	98%	85%
TALL FESCUE			
POA PRATENSIS, VAR. 'COMMON'.....	10%	95%	80%
KENTUCKY BLUEGRASS			

RAIN GARDEN SEED MIXTURE

"RAIN GARDEN NATIVE SEED MIXTURE".....
OHIO PRAIRIE NURSERY
866 569 3380
OHIOGRAIRIENURSERY.COM

LOW MOW SEED MIXTURE

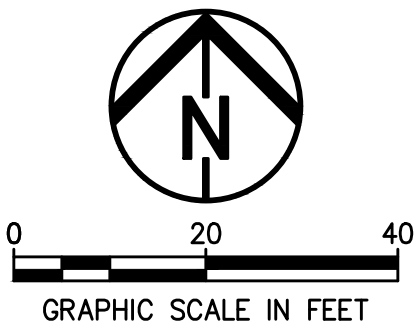
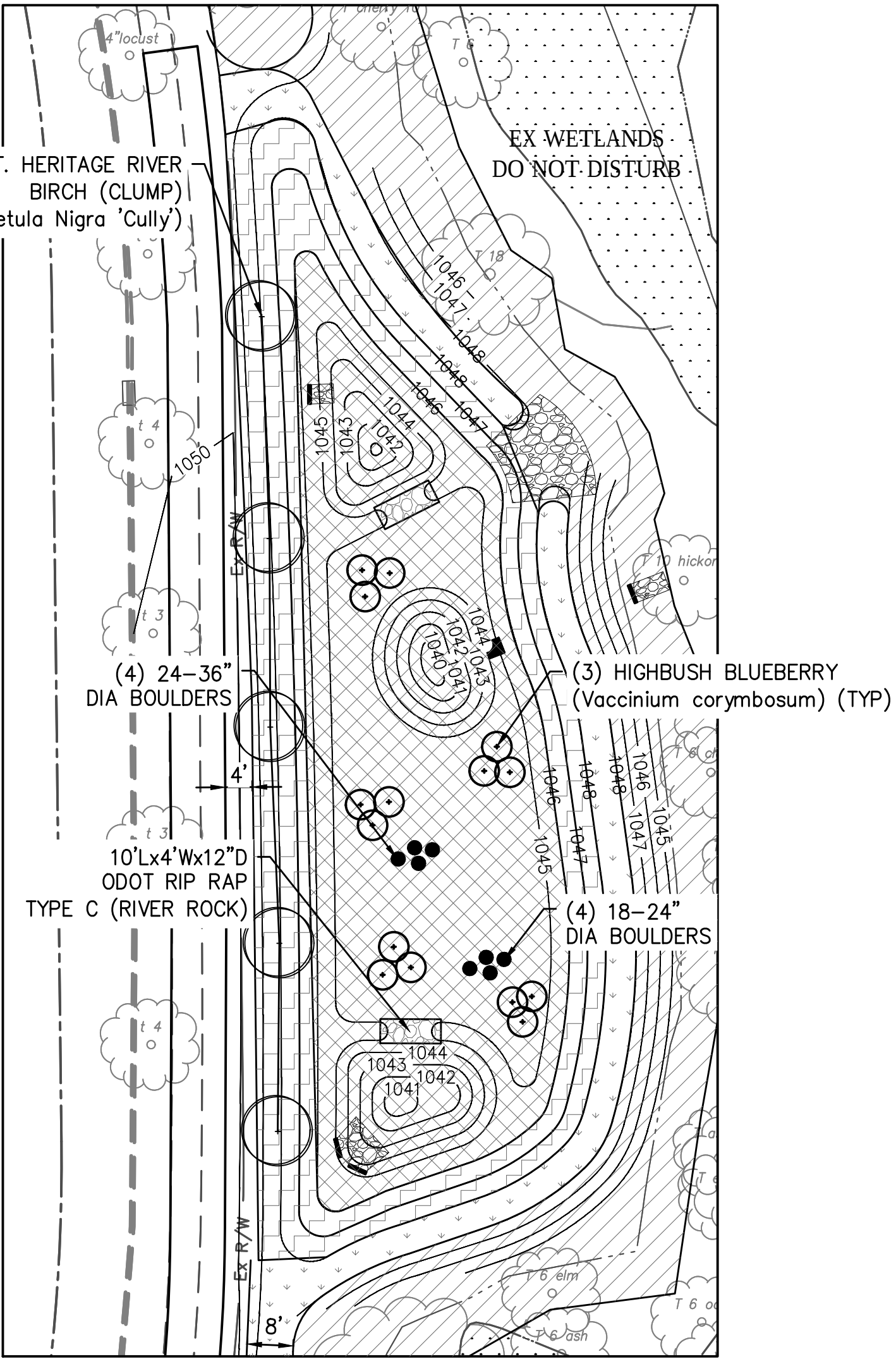
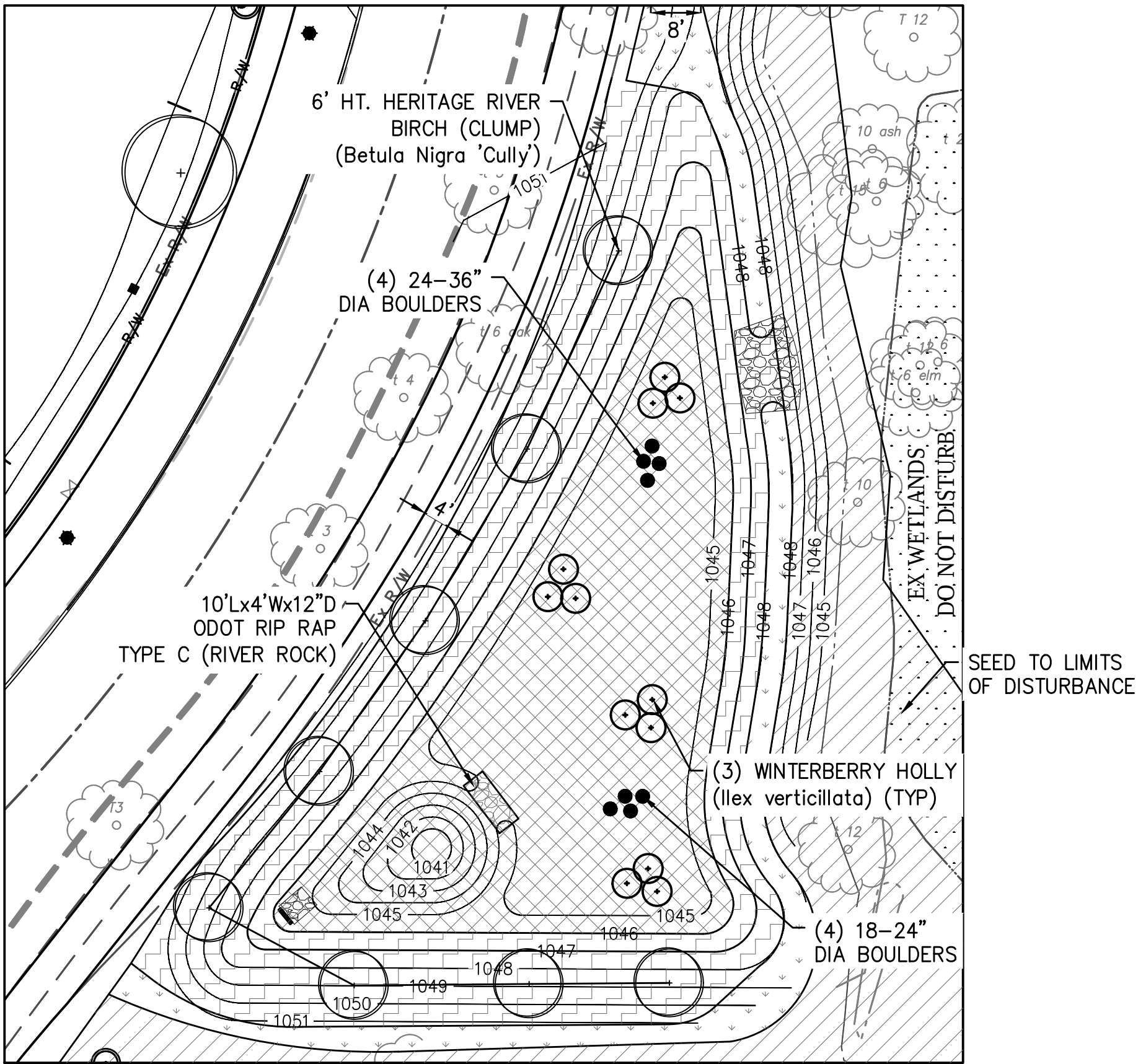
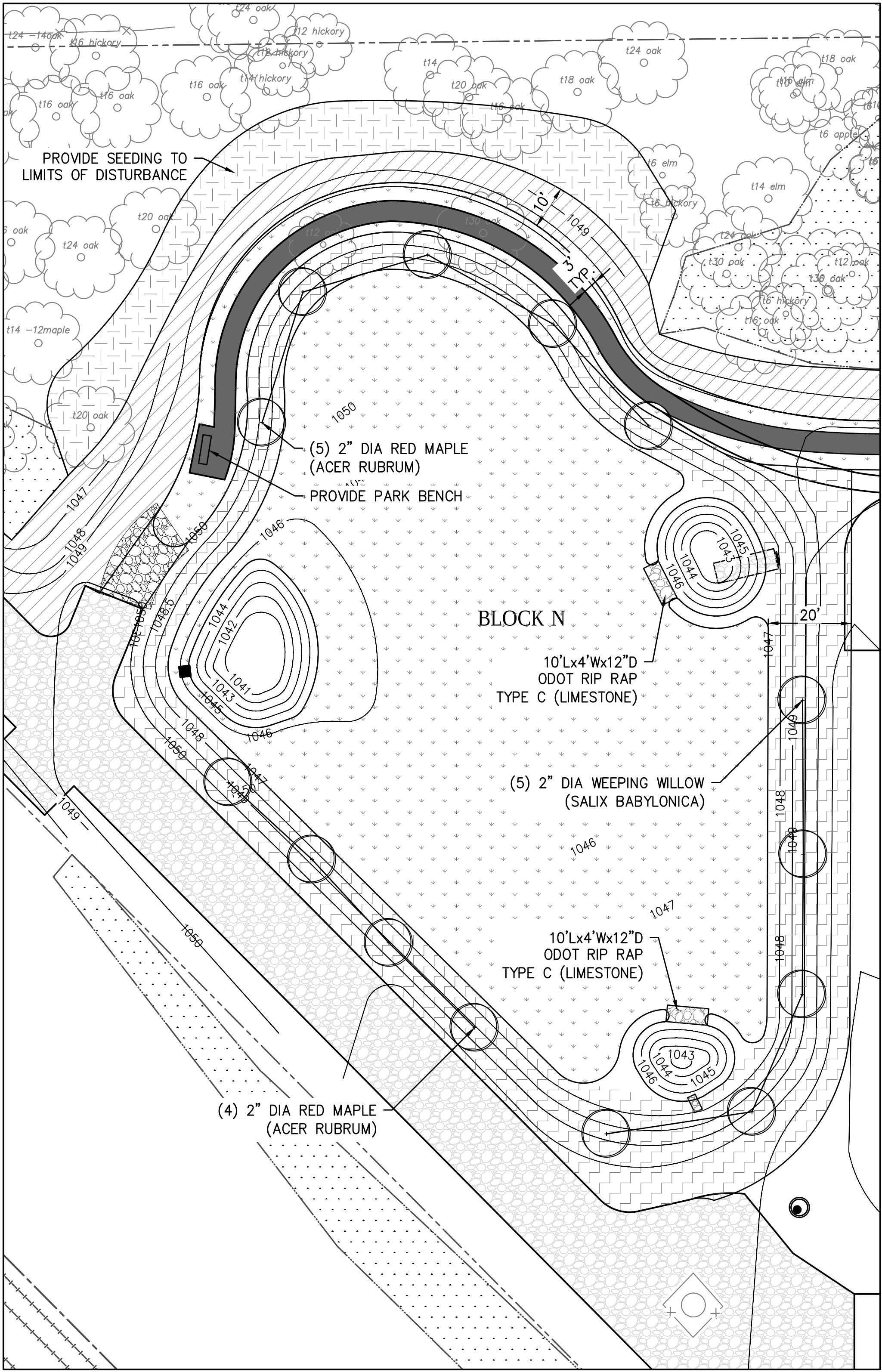
"LOW MOW SEED MIXTURE".....
OHIO PRAIRIE NURSERY
866 569 3380
OHIOGRAIRIENURSERY.COM

DATE: _____

REVISIONS		
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PROJECT NO.:	17-00257-020
DRAWN BY:	NLM
CHECKED BY:	RJW
DATE ISSUED:	2018-10-15

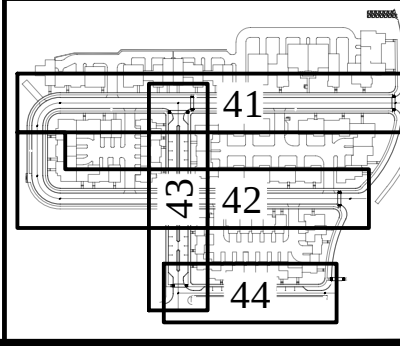
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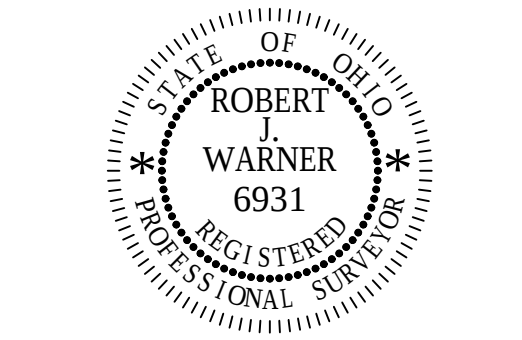
LEGEND

- SHADE TREE
- ORNAMENTAL TREES
- EVERGREEN SHRUBS
- DECIDUOUS SHRUBS
- ORNAMENTAL GRASS
- PERENNIALS
- MULCH BED
- LAWN AREA SEED MIXTURE
- RAIN GARDEN SEED MIXTURE
- BUTTERFLY/HUMMINGBIRD SEED MIXTURE
- WOODLAND EDGE SEED MIXTURE
- FREEDOM LAWN II SEED MIXTURE
- TRUE COLOR DRY BY 18 SHORT NATIVE SEED MIXTURE

Key Plan



HUDSON DOWNTOWN PHASE 2
PUBLIC IMPROVEMENTS
CITY OF HUDSON - PHASE 2A
TESTA COMPANIES



DATE: _____

REVISIONS		
Δ	DATE	DESCRIPTION

PROJECT NO.: 17-00257-020

DRAWN BY: NLN

CHECKED BY: RJW

DATE ISSUED: 2018-10-15

LANDSCAPE PLAN