DRAINAGE AND GRADING NOTES

- 1 ALL CONSTRUCTION IS TO BE STAKED IN THE FIELD BY OR UNDER THE SUPERVISION OF A FLORIDA REGISTERED LAND
- 2. THE CONTRACTOR IS TO PROVIDE THE ENGINEER OF RECORD WITH REPRODUCIBLE RECORD DRAWINGS SHOWING ALL IMPROVEMENT LOCATIONS AND ELEVATIONS IN ACCORDANCE WITH LATEST CITY OF BRADENTON PUBLIC WORKS DEPARTMENT AND SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT (SWFWMD) STANDARDS. THE CONTRACTOR SHALL ALSO PROVIDE FIVE SETS OF PRINTS, SIGNED AND SEALED BY A PROFESSIONAL LAND SURVEYOR, OF THE RECORD DRAWINGS TO THE ENGINEER OF RECORD. THESE RECORD DRAWINGS SHALL BE CERTIFIED TO THE OWNER. APPROPRIATE GOVERNMENTAL AGENCIES AND TO 7NS ENGINEERING, LC. RECORD DRAWINGS SHALL SPECIFICALLY INCLUDE STORMWATER FACILITY LOCATIONS, INCLUDING TOP OF BANK, UNDERDRAIN AND CONTROL STRUCTURES, SHALL BE PERFORMED BY A REGISTERED LAND SURVEYOR AND REVIEWED BY THE ENGINEER OF RECORD PRIOR TO ACCEPTANCE AND PAYMENT, BENCH MARKS WITH THE ELEVATION CLEARLY AND PERMANENTLY MARKED ARE TO BE PLACED ON THE TOP OF ALL PROPOSED OLITEAU CONTROL STRUCTURES, RECORD DRAWINGS OF ALL MITIGATION AREAS INCLUDING FLEVATIONS, ZONES AND LIMITS SHALL BE PERFORMED BY A REGISTERED LAND SURVEYOR AND REVIEWED BY THE ENGINEER OF RECORD PRIOR TO ACCEPTANCE AND PAYMENT. THE RECORD DRAWINGS SHALL SPECIFICALLY INCLUDE THE SURFACE AREA OF STORMWATER FACILITY AREAS AT NORMAL WATER ELEVATION (NWL), AT HIGH WATER ELEVATION (HWL2s), TOP OF BANK AND ALL MITIGATION AND/OR LITTORAL SHELF AREAS.
- 3. ALL PIPE LENGTHS SHOWN ON PLAN VIEW ARE TO THE END OF THE MITERED END SECTION. REFER TO MITERED END SECTION DETAIL FOR LENGTH OF PIPE TO BE INCLUDED IN PRICE FOR MITERED END SECTION.
- 4. THE CONTRACTOR SHALL VERIFY TOPOGRAPHY AND SATISFY HIMSELF AS TO THE EXTENT OF FILL NECESSARY TO ACHIEVE FINISHED GRADE PRIOR TO AWARD OF CONTRACT. THERE SHALL BE NO CLAIM FOR EXTRAS
- 5. ROADSIDE UNDERDRAIN SHOWN ON PLAN IS MINIMUM AND EXTENSION SHALL BE REQUIRED AS DETERMINED NECESSARY BY THE ENGINEER OF RECORD AND/OR COBPWD DURING THE COURSE OF CONSTRUCTION.

NOTWITHSTANDING SITE PLAN REVISIONS PROMULGATED SUBSEQUENT TO AWARD OF CONTRACT.

- 6. ALL BIDDERS ARE HEREBY ADVISED THAT ALL EXCAVATION ON THIS PROJECT MUST COMPLY WITH FLORIDA STATUTE 90-96 "TRENCH SAFETY ACT", AND THAT THE COST OF COMPLIANCE IS TO BE INCLUDED IN HIS BASE BID. THE BIDDER
- 7. SUITABLE FILL MATERIAL FROM STORMWATER FACILITIES EXCAVATION SHALL BE UTILIZED FOR PROJECT FILL PER GRADING SPECIFICATIONS. UNSUITABLE MATERIAL SHALL BE PLACED IN OPEN AREAS ONLY AS DIRECTED BY THE PROJECT ENGINEER AND SOILS ENGINEER
- 8. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL STRUCTURES PRIOR TO INSTALLATIONS.

SHALL INDICATE ON THE BID FORM THE COSTS ASSOCIATED WITH COMPLIANCE.

- 9. REFER TO CONSTRUCTION TECHNICAL SPECIFICATIONS FOR COMPACTION REQUIREMENTS, GRASSING/SODDING REQUIREMENTS, AND PAVING CONSTRUCTION MATERIAL SPECIFICATIONS.
- 10. ALL FILL AREAS ARE TO BE CONSTRUCTED IN 12" MAXIMUM LIFTS.
- 11. THE CONTRACTOR IS TO REVIEW SOILS TESTS AS PERFORMED BY THE SOIL CONSULTANT AND IS ENCOURAGED TO CONDUCT ON-SITE TESTING TO SATISFY HIMSELF AS TO ACTUAL LIMITS OF REMOVAL AND REPLACEMENT OF UNSUITABLE MATERIALS PRIOR TO BIDDING.
- 12. THE MINIMUM BUILDING FINISHED FLOOR ELEVATION IS TO BE 18" ABOVE ADJACENT STREET CENTERLINE, TO FLOOD ZONE REQUIREMENTS WHERE APPLICABLE, OR AS SPECIFIED WITHIN THE PLANS.
- 13. THE CONTRACTOR IS TO PROVIDE THE ENGINEER OF RECORD WITH VERIFICATION OF LOT GRADES PRIOR TO FINAL ACCEPTANCE OF THE PROJECT.
- 14. ALL CONTROL STRUCTURES SHALL HAVE A SEPARATE TOP SLAB TO ALLOW FOR FINAL ADJUSTMENT TO DESIGN GRADE. PRECAST CONTROL STRUCTURES SHALL BE CAST SO AS TO ALLOW A MINIMUM OF 6" OF BRICK ADJUSTMENT FOR CONSTRUCTION OF THE WEIR(S).

CLEARING AND GRUBBING NOTES

1. EROSION CONTROL PREVENTIVE METHODS, SILT SCREENING AND/OR HAY BALES, TO BE IN PLACE PRIOR TO COMMENCEMENT OF EARTHWORK CONSTRUCTION TO MINIMIZE EROSION AND SEDIMENTARY RUNOFF. THE CONTRACTOR SHALL PERFORM DAILY SITE INSPECTIONS FOR ANY POTENTIAL FROSION PROBLEMS. IF ANY POTENTIAL EROSION PROBLEMS ARE ENCOUNTERED. OR HAVE OCCURRED. THE CONTRACTOR SHALL INSTALL PROPER EROSION CONTROL MEASURES IMMEDIATELY. STORMWATER TREATMENT FACILITIES ARE TO BE CONSTRUCTED EARLY IN SITE DEVELOPMENT, WITH NO UNTREATED RUNOFF OFF-SITE OCCURRING DURING

SEDIMENT AND EROSION CONTROL DEVICES SHALL BE INSTALLED AND THEN VERIFIED/INSPECTED BY CITY OF BRADENTON PUBLIC WORKS DEPARTMENT PRIOR TO COMMENCEMENT OF CONSTRUCTION.

- 2. ALL EXISTING TREES AND BRUSH DESIGNATED FOR REMOVAL ARE TO BE CLEARED AND DISPOSED OF OFFSITE. OR BURNED ON-SITE IF APPROVED BY THE DISTRICT FIRE DEPARTMENT AND COUNTY HEALTH DEPT. ALL EXISTING TREES AND UNDERBRUSH AREAS THAT ARE TO REMAIN UNDISTURBED SHALL BE PROTECTED BY BARRICADES. THE CONTRACTOR SHALL INSTALL SAID BARRICADES AT COMMENCEMENT OF CONSTRUCTION AND REMOV FOLLOWING FINAL GRADING AND LANDSCAPING.
- 3. SODDING AND/OR GRASSING TO BE COMPLETED IMMEDIATELY UPON COMPLETION OF FINISH GRADING. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING DUST CONTROL.
- 4. TOPOGRAPHIC AND PROPERTY SURVEYS GIVING LOT SIZE, GROUND ELEVATIONS, OBSTRUCTIONS ON SITE. LOCATION AND DEPTHS OF SEWERS, CONDUITS, PIPES, EXISTING STRUCTURES, CURBS, PAVEMENTS, TRACTS, AND SOIL BORING DATA GIVING THE NATURE OF GROUND AND SUBSURFACE CONDITIONS HAVE BEEN OBTAINED FROM RELIABLE SOURCES. THE ACCURACY OF THIS DATA IS NOT GUARANTEED, AND IS FURNISHED SOLELY AS AND ACCOMMODATION TO THE CONTRACTOR. USE OF THIS DATA SHALL BE MADE AT THE CONTRACTOR'S DISCRETION. NO ADDITIONAL COMPENSATION WILL BE GRANTED DUE TO CONTRACTOR'S LACK OF KNOWLEDGE OF SITE CONDITIONS. PRIOR TO BID SUBMISSION. CONDUCT ANY ADDITIONAL SURVEYS AND SOIL TESTS YOU MAY DEEM NECESSARY TO VERIFY THE ACCURACY OF THE INFORMATION
- 5. PROPOSED ROADWAY AREAS TO BE CLEARED OF ALL TREES AND BRUSH, AND STRIPPED TO A MINIMUM DEPTH OF 8" AND/OR BOTTOM OF ORGANIC LAYER.
- 6. REFER TO DRAINAGE & GRADING PLAN FOR ADDITIONAL NOTES REGARDING WETLAND MITIGATION.
- 7. EXISTING WATER SERVICES ENCOUNTERED TO BE REMOVED BACK TO MAIN AND CAPPED OFF.
- 8. EXOTIC, NUISANCE VEGETATION SHALL BE REMOVED FROM THE WETLAND BUFFERS AND ALL OTHER UPLAND PORTIONS OF THE SITE.
- 9. ANY UNDERGROUND/ABOVEGROUND POLLUTANT STORAGE TANK INSTALLATION/REMOVAL MUST CONFORM TO THE REQUIREMENTS OF CHAPTER 62-761, FLORIDA ADMINISTRATIVE CODE.

UTILITY NOTES

- 1. ALL CONSTRUCTION IS TO BE STAKED IN THE FIELD BY OR UNDER THE SUPERVISION OF A FLORIDA REGISTERED LAND SURVEYOR. RECORD DRAWINGS SHALL BE PROVIDED BY THE SURVEYOR.
- THE CONTRACTOR IS RESPONSIBLE FOR THE PRODUCTION OF REPRODUCIBLE RECORD DRAWINGS, PRIOR TO SCHEDULING OF ANY UNDERGROUND UTILITY PRESSURE TESTS, CONTRACTOR SHALL HAVE OBTAINED (FROM A PROFESSIONAL SURVEYOR) ALL NECESSARY FIELD DATA REQUIRED FOR THE PRODUCTION OF RECORD DRAWINGS. SAID RECORD DRAWINGS ARE TO MEET THE REQUIREMENTS OF MANATEE COUNTY HEALTH DEPARTMENT & CITY OF BRADENTON PUBLIC WORKS UTILITY STANDARDS AND FDEP. THE CONTRACTOR SHALL PROCESS SAID DRAWINGS THROUGH CITY OF BRADENTON PUBLIC WORKS DEPARTMENT AND UPON COMPLETION SHALL PROVIDE TWO REPRODUCIBLE MYLARS AND FIVE SETS OF PRINTS OF THE RECORD DRAWINGS, SIGNED AND SEALED BY A PROFESSIONAL LAND SURVEYOR TO THE ENGINEER. THESE RECORD DRAWINGS SHALL BE CERTIFIED TO THE OWNER, APPROPRIATE GOVERNMENTAL AGENCIES, AND ZNS
- IF CONSTRUCTION STAKEOUT IS PROVIDED BY THE OWNER, THE CONTRACTOR SHALL ACCURATELY RECORD THE LOCATION OF ALL WORK THAT MAY SUBSEQUENTLY BECOME CONCEALED OR INACCESSIBLE, AS WELL AS MARK OR EXPOSE UNDERGROUND FACILITIES AS NECESSARY TO FACILITATE THE PREPARATION OF THE RECORD DRAWINGS BY THE OWNER, AND PROVIDE SAID INFORMATION TO THE OWNER.
- WATERMAINS ARE TO BE PIGMENTED, COLOR BLUE, DR-18, C-900 OR C-905 PVC. WATER SERVICES, WHERE LOCATED UNDER PAVEMENT, TO BE ENCASED IN ASTM 2241, SDR-21 PVC. MAINTAIN A MINIMUM OF 36"
- 4. GRAVITY SANITARY SEWERS ARE TO BE PIGMENTED, COLOR GREEN, SDR 26, PVC AND CONFORMING TO ASTM D-3034. MAINTAIN A MINIMUM OF 36" COVER.
- GRAVITY SANITARY SEWER FORCEMAINS ARE TO BE PIGMENTED, COLOR GREEN, DR-18, C-900 OR C-905 PVC. MAINTAIN A MINIMUM OF 36" COVER
- RECLAIMED WATERMAINS ARE TO BE PIGMENTED, COLOR LAVENDER, DR-18, C-900 OR C-905 PVC. MAINTAIN
- 7. 10' HORIZONTAL AND 1.5' VERTICAL SEPARATION SHALL BE PROVIDED BETWEEN SEWER AND WATER LINES

MEETING "TEN STATE STANDARDS, SECTION 38.31".

- 8. THE MINIMUM HORIZONTAL SEPARATION BETWEEN RECLAIMED WATERMAINS AND POTABLE WATER OR SANITARY SEWER MAINS SHALL BE 5' OUTSIDE TO OUTSIDE, THE MINIMUM VERTICAL SEPARATION BETWEEN RECLAIMED WATERMAINS & POTABLE WATER & SANITARY SEWER MAINS SHALL BE 18" FROM CROWN OF PIPE
- 9. CONTRACTOR IS RESPONSIBLE FOR ALL GOVERNMENTAL CONSTRUCTION FEES AND CHARGES. I.E. INSPECTIONS AND TESTING FEES. HOWEVER, IMPACT FEES (FIF), IF APPLICABLE, TO BE PAID BY THE OWNER.
- 10. ALL NEW TAPS TO CITY OF BRADENTON POTABLE WATER LINES SHALL INCLUDE A TEMPORARY 6" (MINIMUM) JUMPER SYSTEM, UNLESS SPECIFICALLY NOTED OTHERWISE IN THE PLANS.
- 11. JUMPER SYSTEM SHALL INCLUDE ALL NECESSARY FITTINGS, PIPE, VALVES AND BACKFLOW PREVENTER (FEBCO 870 OR APPROVED EQUAL).
- 12. STREETS, SANITARY SEWER AND POTABLE WATER WILL BE DEDICATED UPON COMPLETION AND ACCEPTANCE BY CITY OF BRADENTON FOR MAINTENANCE BY CITY OF BRADENTON PUBLIC WORKS DEPARTMENT.

GENERAL CONSTRUCTION NOTES

- 1. ALL PROPOSED CONSTRUCTION IS TO MEET OR EXCEED LATEST APPLICABLE CITY OF BRADENTON PUBLIC WORKS UTILITY STANDARDS (2009) AND IS TO MEET ENGINEER'S SPECIFICATIONS. ALL PROPOSED CONSTRUCTION IS TO BE PRIVATELY & PUBLICLY OWNED AND MAINTAINED FOLLOWING COMPLETION AND ACCEPTANCE. RIGHT OF WAY AND OTHER OFF-SITE IMPROVEMENTS SHALL BE PUBLICLY OWNED AND MAINTAINED FOLLOWING COMPLETION AND ACCEPTANCE.
- 2. THE CONTRACTOR IS TO COORDINATE THE LOCATION AND ELEVATION OF ALL FRANCHISE (VERIZON, FLP) UTILITIES IRRIGATION SERVICE SLEEVES WITH RESPECTIVE AGENCY PRIOR TO CONSTRUCTION.
- 3. THE CONTRACTOR IS TO ASSURE HIMSELF THAT ALL UNDERGROUND UTILITIES AND STORM SEWER IS CONSTRUCTED, TESTED AND OPERATIONAL PRIOR TO ANY CONSTRUCTION COVERING THESE UTILITIES.
- 4. ALL PROPOSED ELECTRICAL AND COMMUNICATION SERVICES ARE TO BE LOCATED UNDERGROUND AS DIRECTED BY RESPECTIVE AGENCY.
- 5. CURBING AT SIDEWALK INTERSECTIONS TO BE RECESSED FOR PEDESTRIAN RAMPS. RAMPS TO BE CONSTRUCTED AT TIME OF CURB RADII.
- 6. CONTRACTOR TO OBTAIN APPLICABLE PERMITS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- 7. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATION AND ISSUANCE OF ALL COMMENCEMENT AND/OR PROGRESS NOTICES TO GOVERNMENTAL AGENCIES DURING THE COURSE OF CONSTRUCTION, AS REQUIRED FOR INSPECTION, TESTING AND TRACKING PER APPLICABLE AGENCY PERMIT CONDITIONS.
- 8. CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND COMPLYING WITH ALL PERMIT CONDITIONS AND STIPULATIONS FOR ALL LOCAL, REGIONAL AND STATE AGENCIES, INCLUDING, BUT NOT LIMITED TO, FINAL SITE PLANS, UTILITIES, DRAINAGE, FUGITIVE PARTICULATES AND EROSION.
- 9. ALL UTILITIES AND/OR DRAINAGE SHOWN AS EXISTING WERE DERIVED FROM THE BEST AVAILABLE INFORMATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE ACTUAL LOCATION, SIZE, TYPE AND AMOUNT OF EXISTING UTILITIES PRIOR TO CONSTRUCTION, THE CONTRACTOR TO NOTIFY SUNSHINE UNDERGROUND FACILITIES NOTIFICATION (1-800-432-4770), COBPWD AND FP&L 48 HOURS MINIMUM PRIOR TO START OF CONSTRUCTION FOR POSSIBLE UTILITY LOCATIONS NOT SHOWN ON
- 10. RIGHT OF WAY USE PERMIT TO BE OBTAINED BY THE CONTRACTOR FOR OFF-SITE CONSTRUCTION.
- 11. THE CONTRACTOR IS RESPONSIBLE FOR ESTIMATING AND CALCULATING ALL CUT AND FILL QUANTITIES PRIOR TO BID SUBMISSION THE CONTRACTOR SHALL CONDUCT ANY ADDITIONAL SURVEYS AND SOIL TESTS HE DEEMS NECESSARY TO CALCULATE THE CUT AND FILL QUANTITIES PROPERLY. ADDITIONAL SURVEYS AND TESTS MADE BY THE CONTRACTOR SHALL BE MADE AT NO ADDITIONAL COST TO THE
- 12. ALL EASEMENTS AS SHOWN WITHIN THE PROJECT BOUNDARY LIMITS ARE TO BE CONSIDERED PRIVATE (UNLESS OTHERWISE STATED). EASEMENTS TO BE GRANTED IN CONJUNCTION WITH RECORD PLAT PROCESSING.
- 13. TOPOGRAPHIC AND PROPERTY SURVEYS GIVING PROPERTY SIZE, GROUND ELEVATIONS, OBSTRUCTIONS ON SITE, LOCATIONS AND DEPTHS OF SEWERS, CONDUITS, PIPES, EXISTING STRUCTURES, CURBS, PAVEMENTS, TRACTS, AND SOIL BORING DATA GIVING THE NATURE OF GROUND AND SUBSURFACE CONDITIONS HAVE BEEN OBTAINED FROM RELIABLE SOURCES. THE ACCURACY OF THIS DATA IS NOT GUARANTEED, AND IS FURNISHED SOLELY AS AN ACCOMMODATION TO THE CONTRACTOR. USE OF THIS DATA SHALL BE MADE AT THE CONTRACTOR'S DISCRETION. NO ADDITIONAL COMPENSATION WILL BE GRANTED DUE TO THE CONTRACTOR'S LACK OF KNOWLEDGE OF SITE CONDITIONS, PRIOR TO BID SUBMISSION. THE CONTRACTOR SHALL CONDUCT ANY ADDITIONAL SURVEYS AND SOILS TESTS HE MAY DEEM NECESSARY TO VERIFY THE ACCURACY OF THE INFORMATION PROVIDED.

STORMWATER POLLUTION PREVENTION PLAN INSPECTION REPORT FORM

— FDEP NPDES Stormwater Identification Number:

Inspections must occur at least once a week and within 24 hours of the end of a storm event that is 0.50 inches or greater.

Project Name: _____

FFLRIO									
Location	Rain data	Type of control (see below)	Date installed /modified	Current Condition (see below)	Corrective Action/ Other Remarks				

G = Good M = Marginal, needs maintenance or replacement soon P = Poor, needs immediate maintenance or replacement C =Needs to be cleaned O =Other

Control Type Codes								
1. Silt Fence	10. Storm drain inlet protection	19. Reinforced soil retaining system	28. Tree protection					
2. Earth dikes	11. Vegetative buffer strip	20. Gabion	29. Detention pond					
3. Structural diversion	12. Vegetative preservation area	21. Sediment Basin	30. Retention pond					
4. Swale	13. Retention Pond	22. Temporary seed / sod	31. Waste disposal / housekeeping					
5. Sediment Trap	14. Construction entrance stabilization	23. Permanent seed / sod	32. Dam					
6. Check dam	15. Perimeter ditch	24. Mulch	33. Sand Bag					
7. Subsurface drain	16. Curb and gutter	25. Hay Bales	34. Other					
8. Pipe slope drain	17. Paved road surface	26. Geotextile						
9. Level spreaders	18. Rock outlet protection	27. Rip-rap						

Inspector Information:

identified above.

Qualification

Generic Permit for Stormwater Discharge from Large and Small Construction Activities if there are not any incidents of non-compliance

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

The above signature also shall certify that this facility is in compliance with the Stormwater Pollution Prevention Plan and the State of Florida

Name (Responsible Authority)

STORMWATER POLLUTION PREVENTION PLAN

CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETING THE "STORMWATER POLLUTION PREVENTION PLAN INSPECTION REPORT FORM", WHICH WILL BE KEPT ON SITE BY THE CONTRACTOR. INSPECTIONS MUST OCCUR AT LEAST ONCE A WEEK AND WITHIN 24 HOURS OF THE END OF A STORM EVENT THAT IS 0.50 INCHES OR GREATER.

677 North Washington Blvd.

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> JEB C. MULOCK PROFESSIONAL FNGINFER #64692



Downtown Bradenton **Transit Station**

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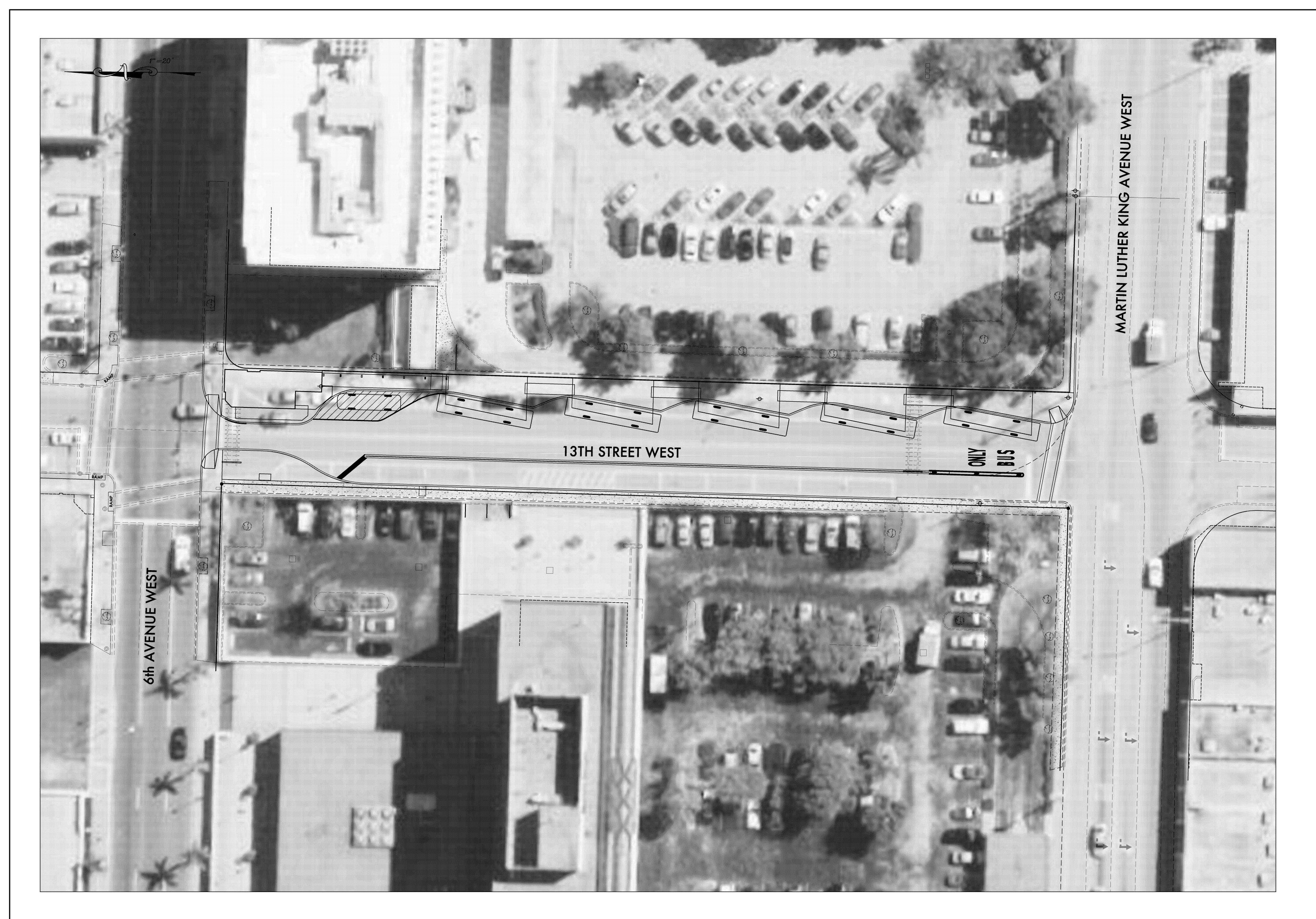
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checked: J. MULOCK 11.12.2010 comm. no.: 0920818

GENERAL NOTES



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PROFESSIONAL ENGINEER #64692

ZNS ENGINEERING

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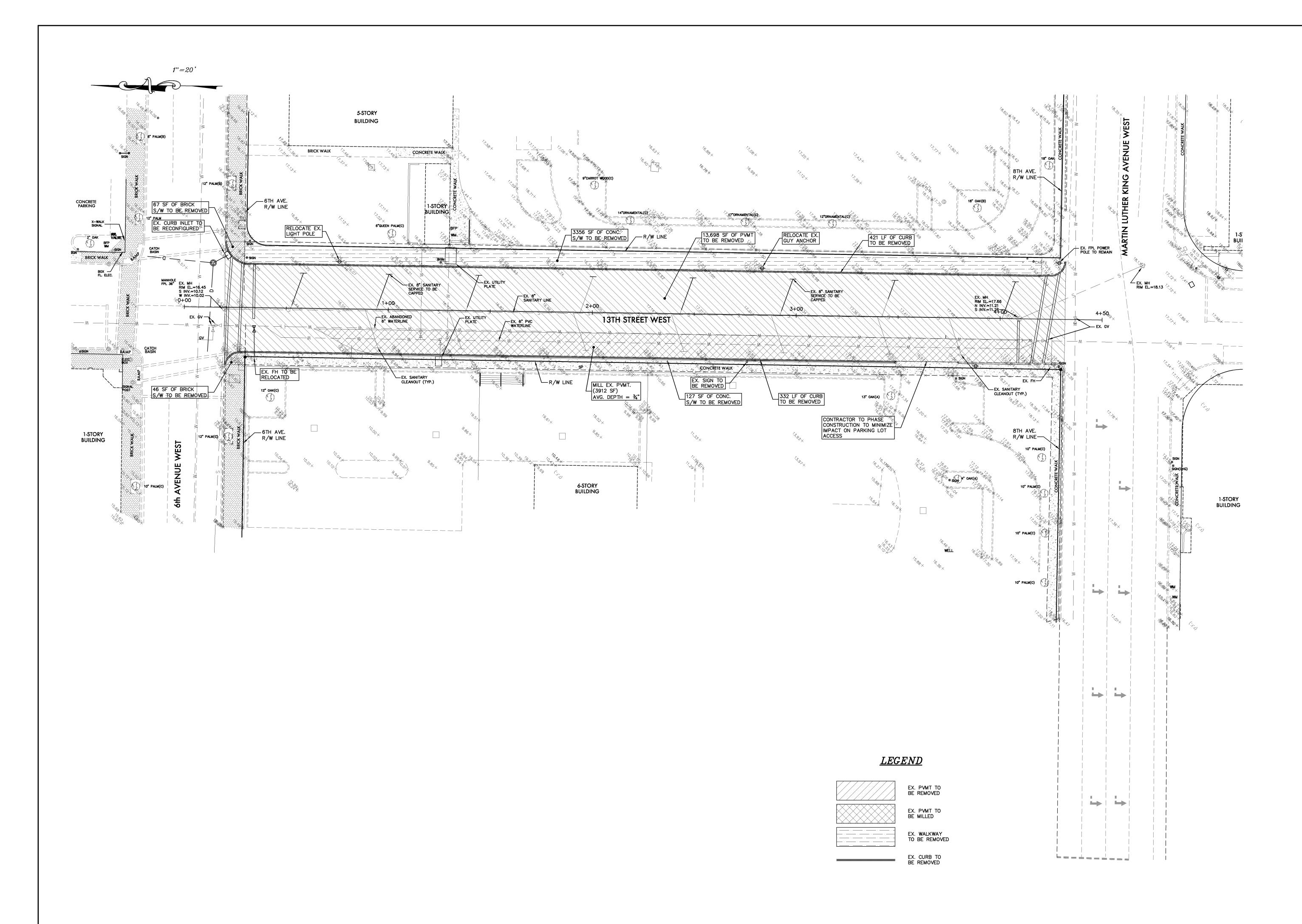
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comm. no.: 0920818

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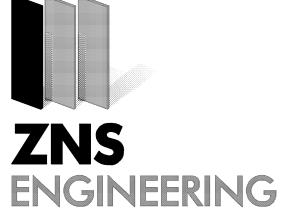


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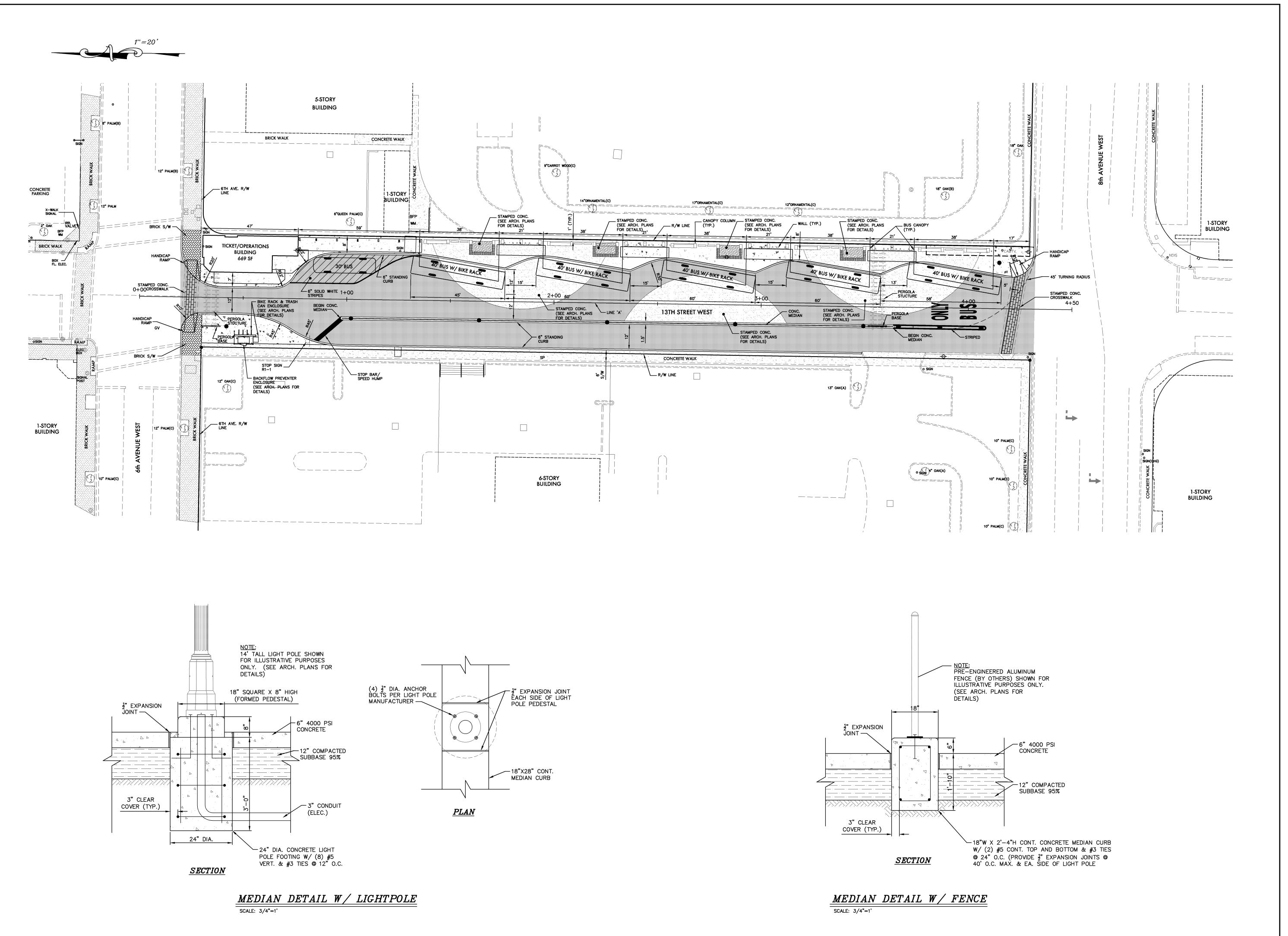
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CLEARING AND DEMOLITION PLAN

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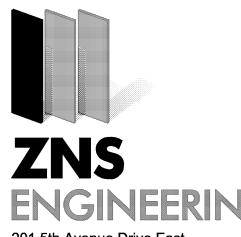
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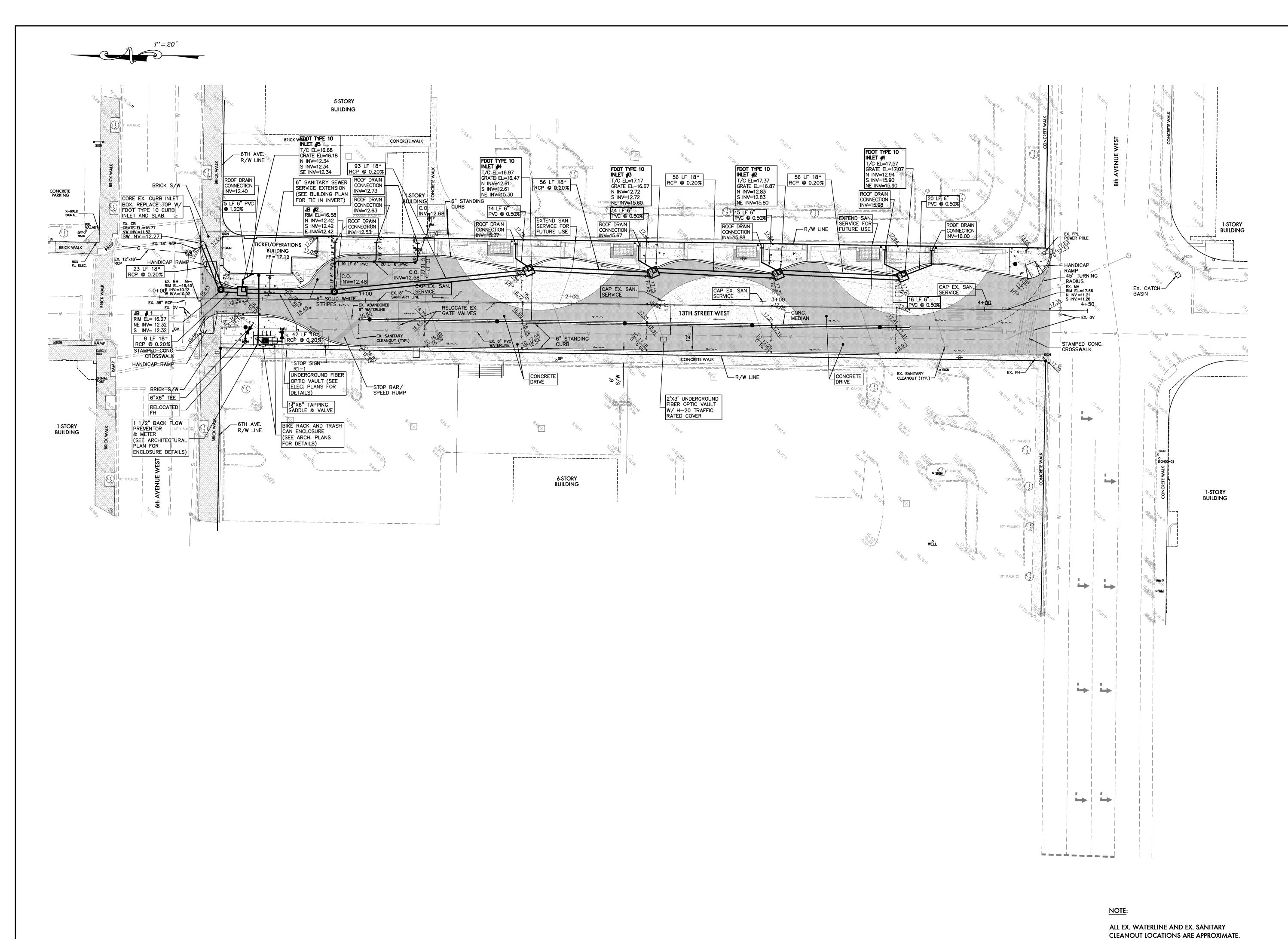
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SITE PLAN

C104



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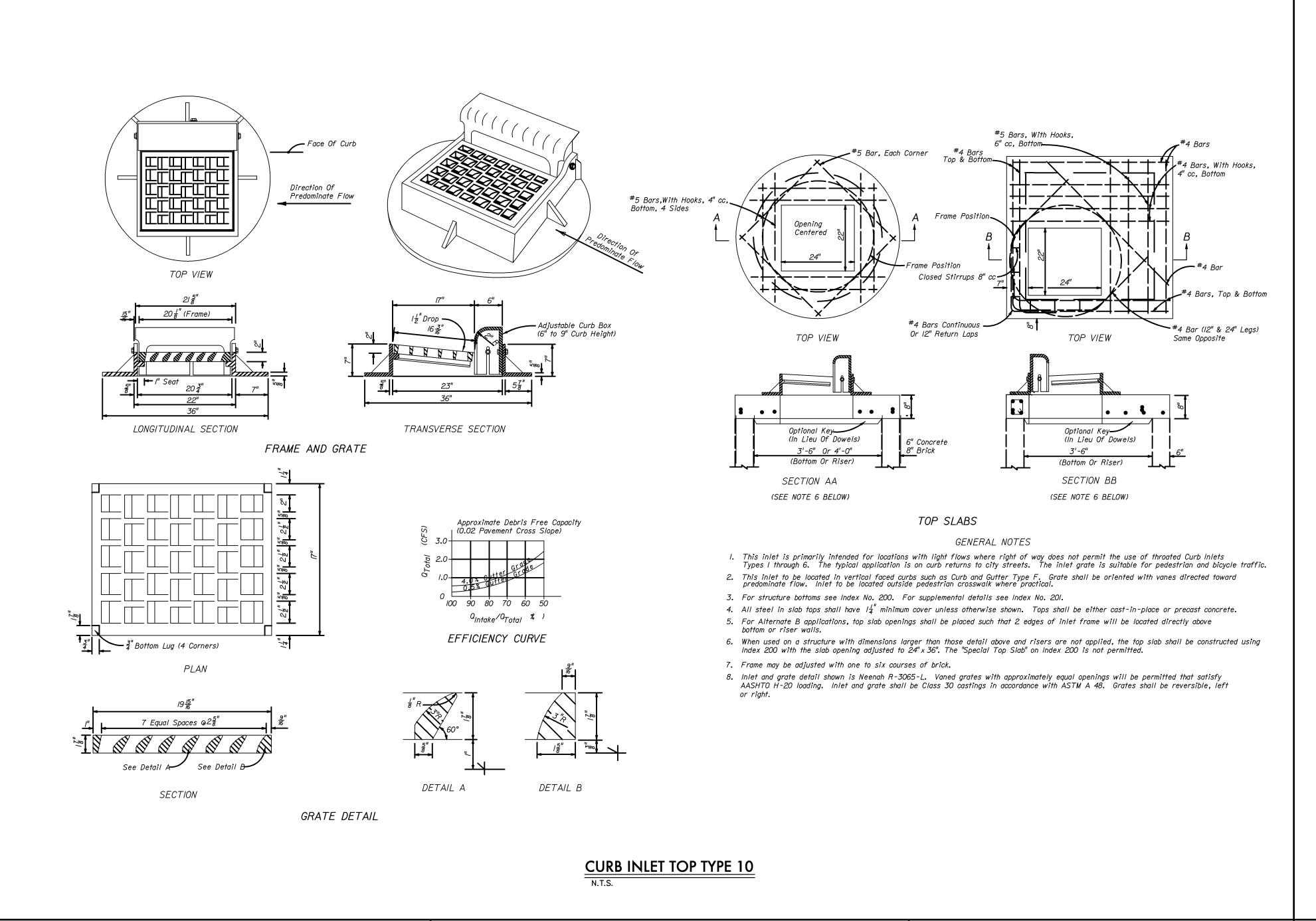
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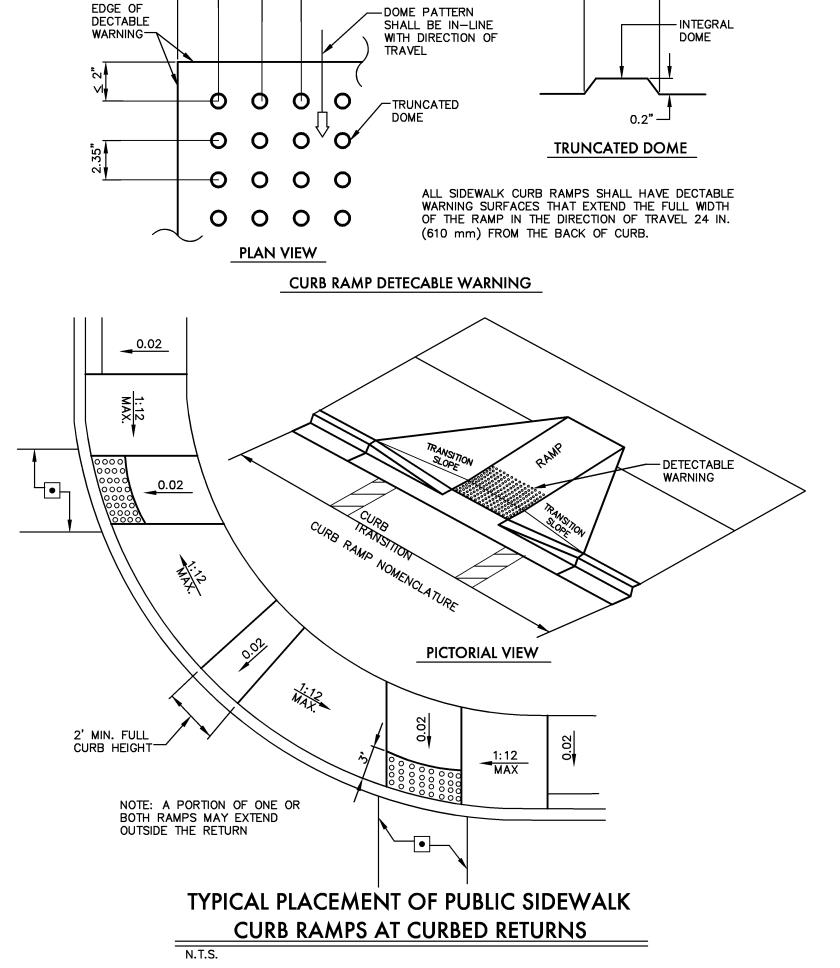
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drawn: MF
checked: J. MULOCK
date: 11.12.2010
comm. no.: 0920818

DRAINAGE AND GRADING PLAN

C105





0.9" --

2.35"

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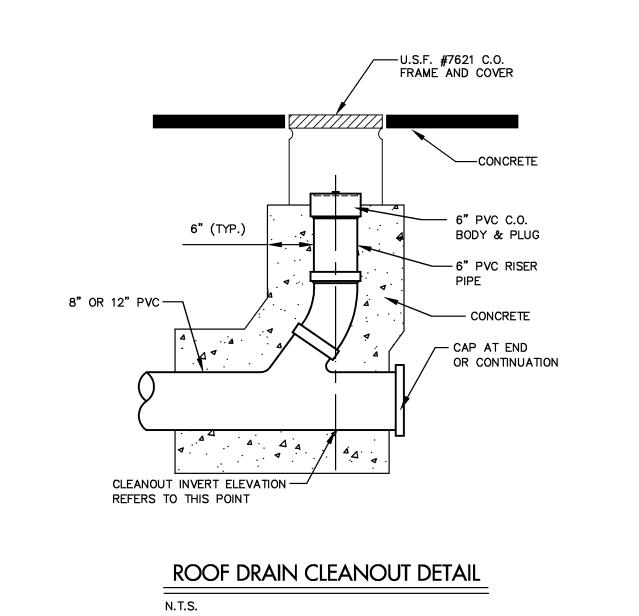
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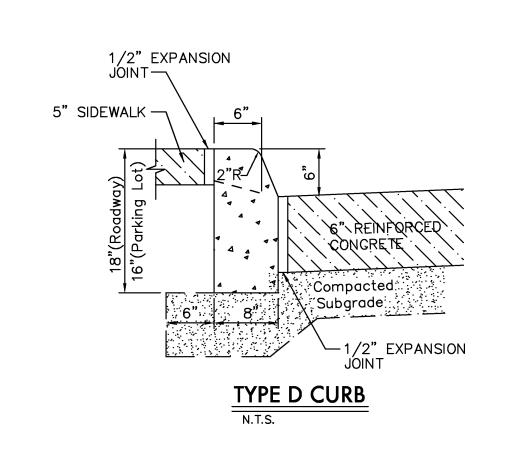
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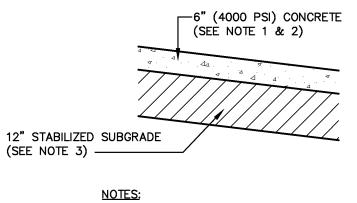
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DRAINAGE DETAILS

100% CONSTRUCTION DOCUMENTS

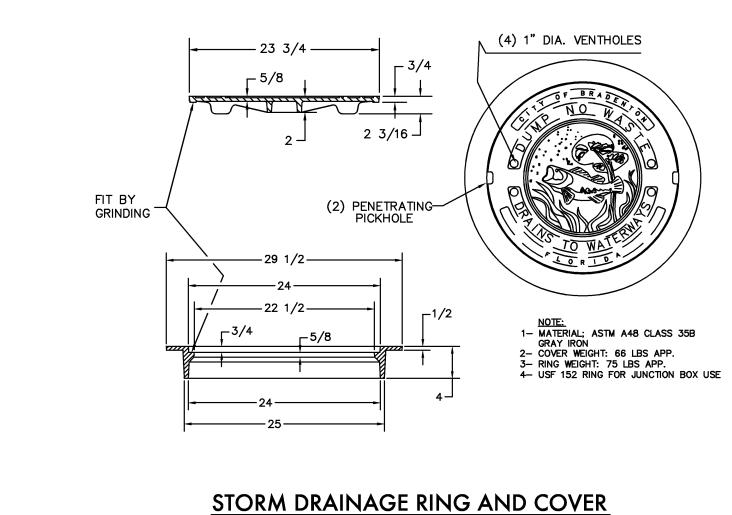


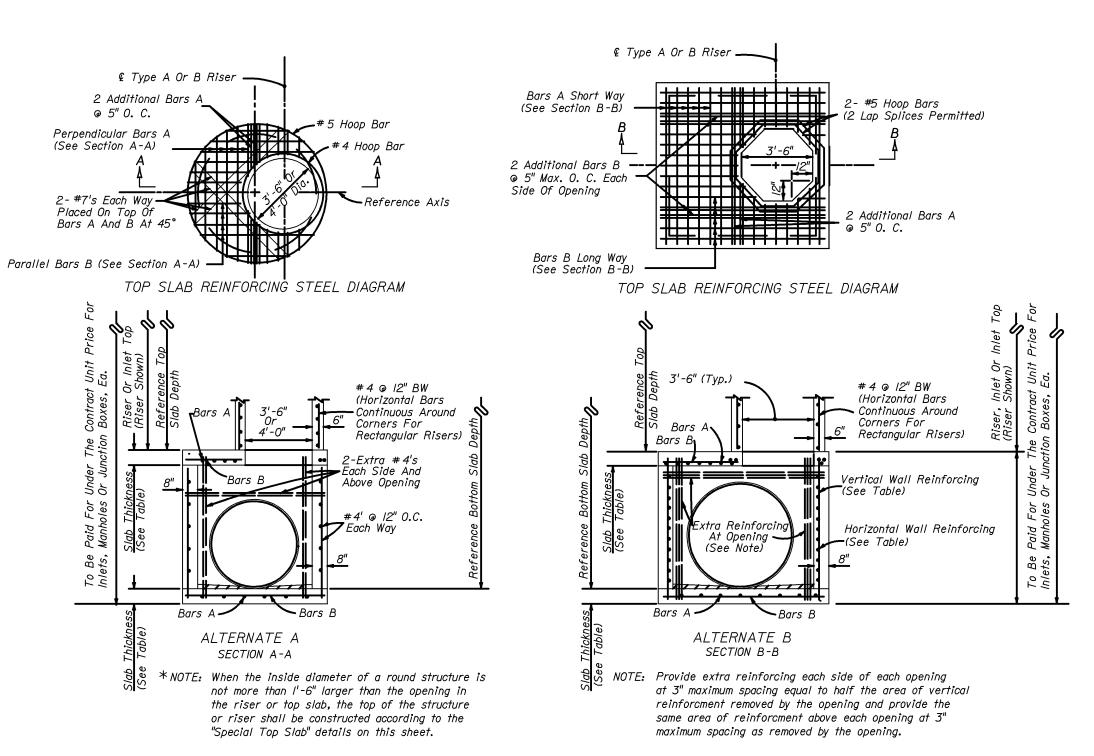


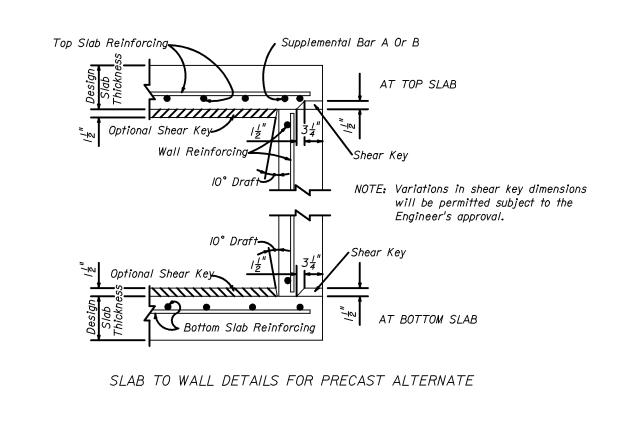


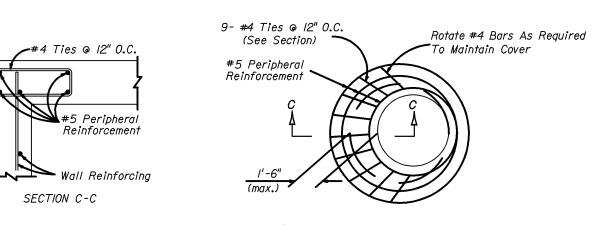
- 1. 15 FT. MAXIMUM JOINT SPACING
- 2. SAWCUT JOINT MIN. 1/4 DEPTH OF CONC.
- 3. SUBGRADE SHOULD BE CLEAN FINE SANDS WITH LESS THAN 10% PASSING A NO. 200 SIEVE, COMPACTED TO MIN. 95% OF MODIFIED PROCTOR (AASHTO T-180)

PAVING DETAIL









SPECIAL TOP SLAB *

GENERAL NOTES

I. Standard structure bottoms 4'-0" diameter and smaller (Alt. A) and 3'-6"

Square (Alt. B) are designated Type P. Larger standard structure bottoms

tops Types I, 2, 3, 4, 5, 6, 9, and 10, and any manhole or junction box unless square (Alt. B) are designated Type P. Larger standard structure bottoms are designated Type J. Risers are permitted for all structures.

2. Walls of circular structures (Alternate A) constructed in place may be

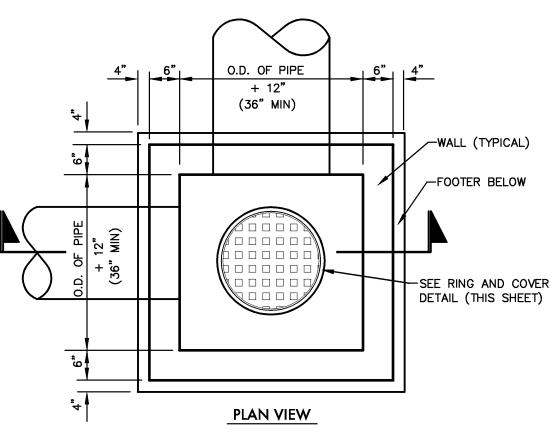
- of non-reinforced concrete or brick or reinforced concrete. Precast and rectangular structures (Alternate B) shall be constructed of reinforced 3. Wall thickness and reinforcement are for either reinforced cast-in-place
- or precast concrete units except that precast circular units may be furnished or A.S.T.M. C-76, Class III, B Wall, modified where the elliptical steel cage 8. Except when ACI hooks are specifically required, embedment hooks in the area is placed in the center one-third of the well area is placed in the center one-third of the wall.
- 4. Top and floor slab thickness and reinforcement are for precast and cast in place construction. Top and floor slabs shall be of Class IIconcrete. Concrete as specified in A.S.T.M. C-478 (4000 psi) may be used in lieu of Class I and Class II concrete in precast items manufactured
 in plants which are under the 'Standard Operating Procedures' for the

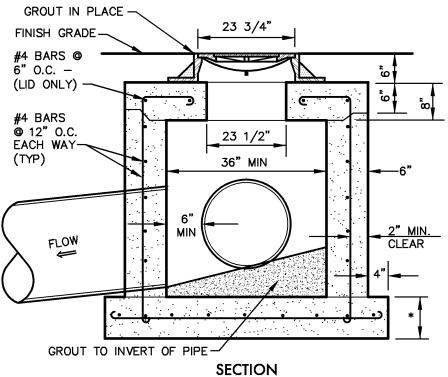
 steel in rectangular structures shall be lapped a minimum of 24 bar diameters 14. For manhole and junction box tops, for frames and covers, and, for supplementary
- 5. All reinforcement shall be A.S.T.M. A615, Grade 60 or 65 KSI welded wire fabric, either smooth or deformed.
- otherwise shown in the plans or other standard drawings. Alt. B structure bottoms may be used in conjunction with curb inlet Types 7 & 8, or any ditch bottom inlet unless otherwise shown in the plans or other standard
- 7. Rectangular structures may be rotated as directed by the Engineer in order to facilitate connections between the structure walls and storm sewer pipes.
- reinforcement in accordance with the reinforcement detail shown under 'Rebar Straight End Embedment Or Peripheral Reinforcement In Lieu of ACI Standard Hooks For Top And Bottom Slabs', Index No. 201, Sheet 3 of 6.
- 10. The corner fillets shown are necessary for rectangular structures used with circular risers and inlet throats and used on skew with rectangular risers, inlet and inlet throats. Fillets will be required in lieu of the bottom slab of the Alt. B riser when used
- II. Inlet throats, riser or manhole tops shall be secured to structures as shown on Index No. 201.

with the Alt. A box. Each fillet shall be reinforced with 2-# 5 bars.

- 12. Structures with depths over 14' are to be checked for floatation by designer of project drainage.
- top and bottom slabs may be replaced with straight embedments or peripheral 13. Units larger than specified standard may be substituted at the contractor's option when these units will not cause or increase the severity of utility conflicts. Such larger units shall be furnished at no additional cost to the Department. Larger Alternate A units cannot replace Alternate B units without approval of the Engineer. This note applies to this Index only.
 - details see Index No. 201.

TYPE 'P' STRUCTURE BOTTOM





- 1. CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR APPROVAL PRIOR TO CONSTRUCTION, SHOULD ANY VARIANCE OF THIS DETAIL BE NECESSARY.
- * 6" BOTTOM SLAB = NOT TRAFFIC BEARING AREAS 8" BOTTOM SLAB = TRAFFIC BEARING AREAS

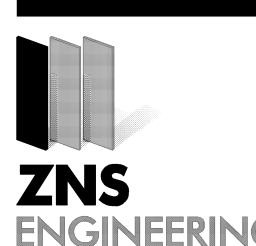
JUNCTION BOX DETAIL

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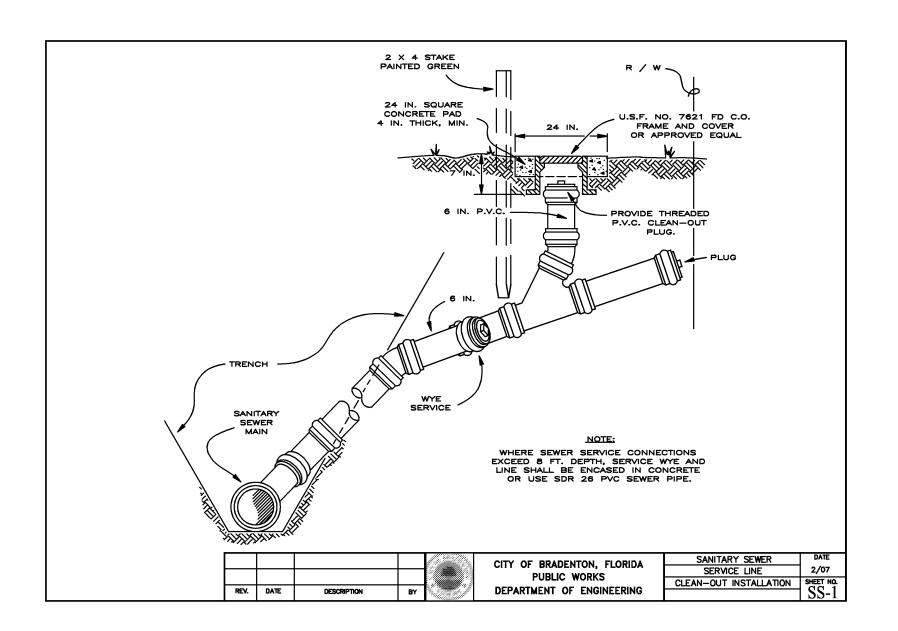
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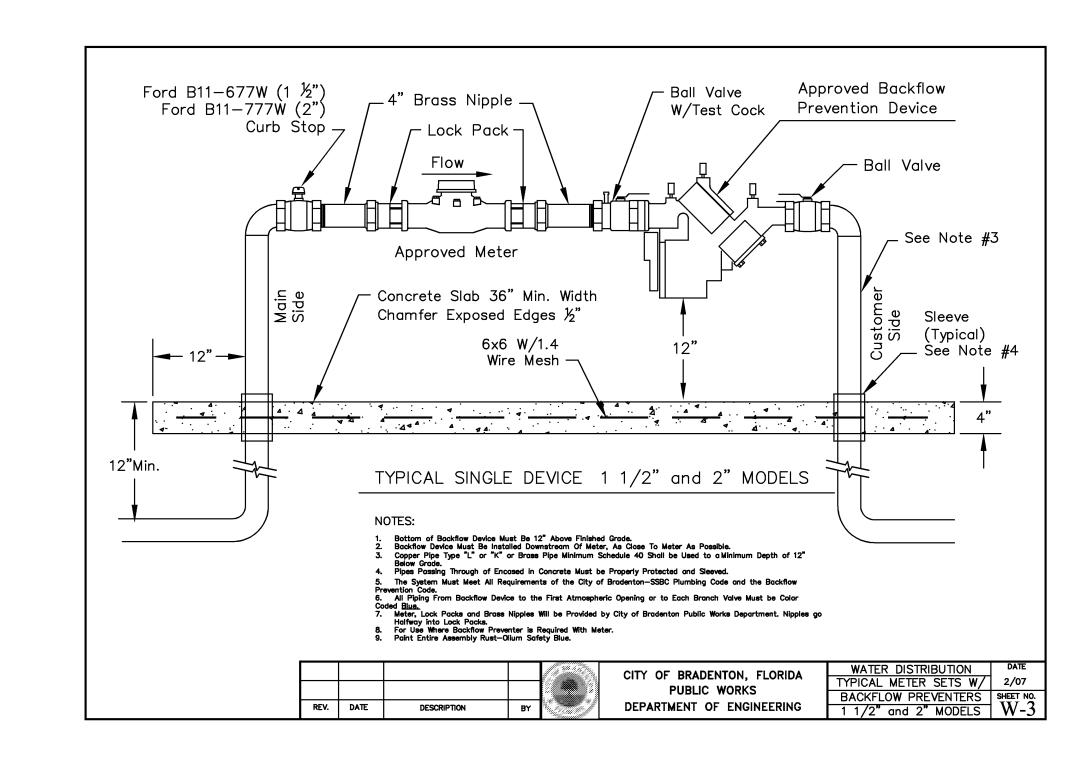
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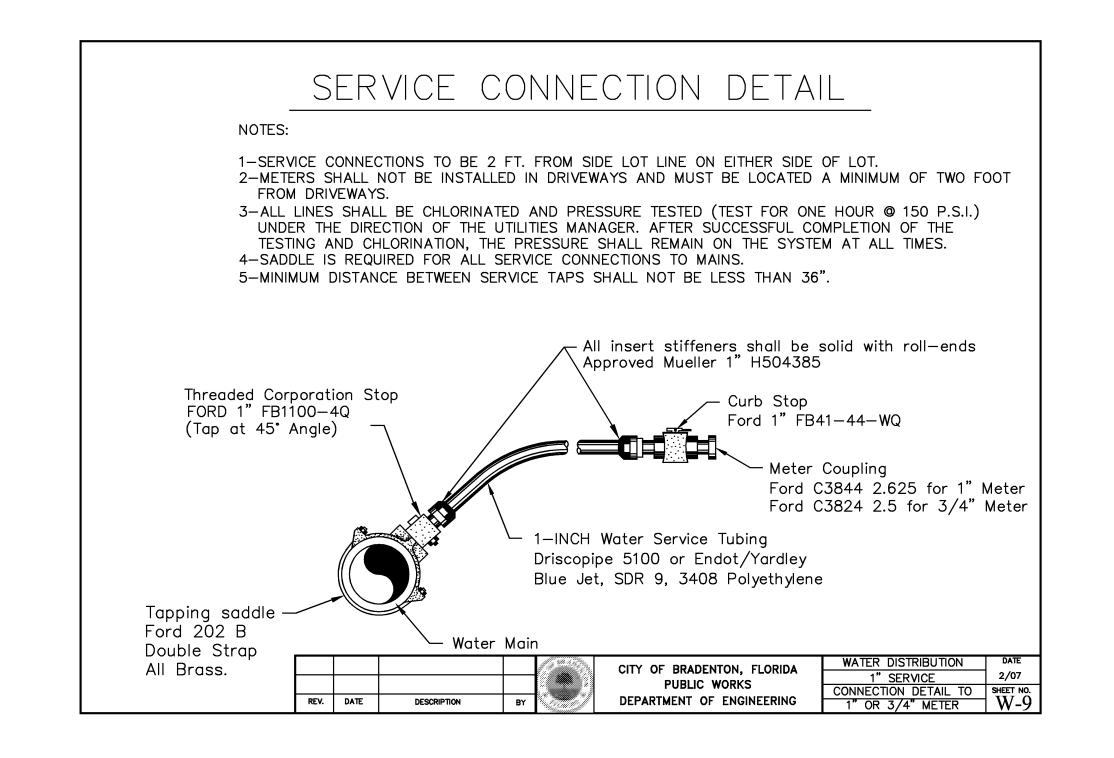
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DRAINAGE DETAILS







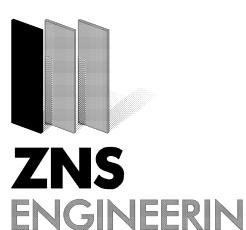
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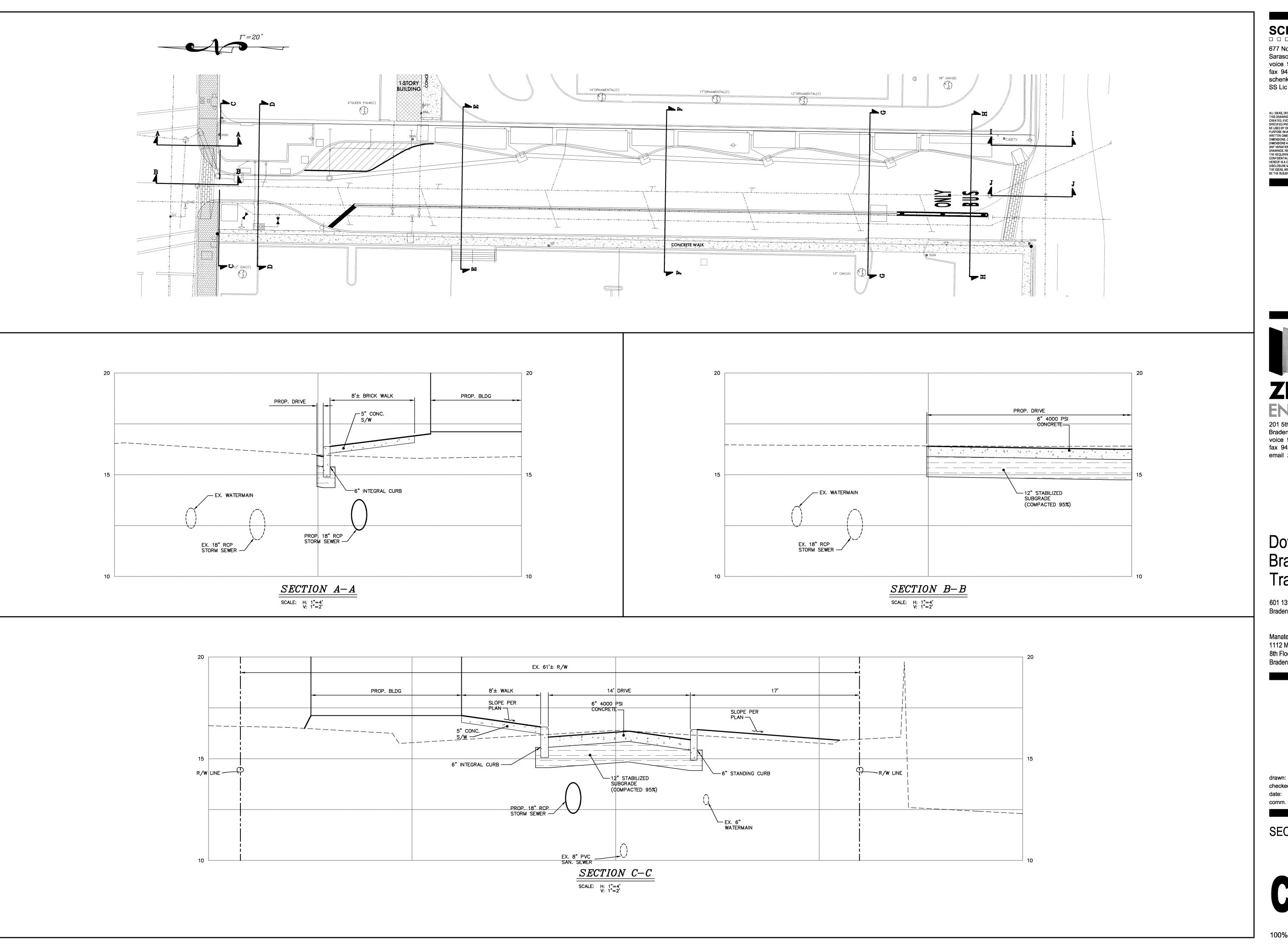
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WATER & SEWER DETAILS

C108

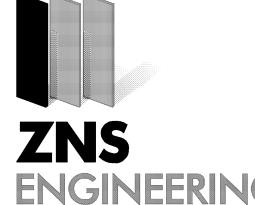


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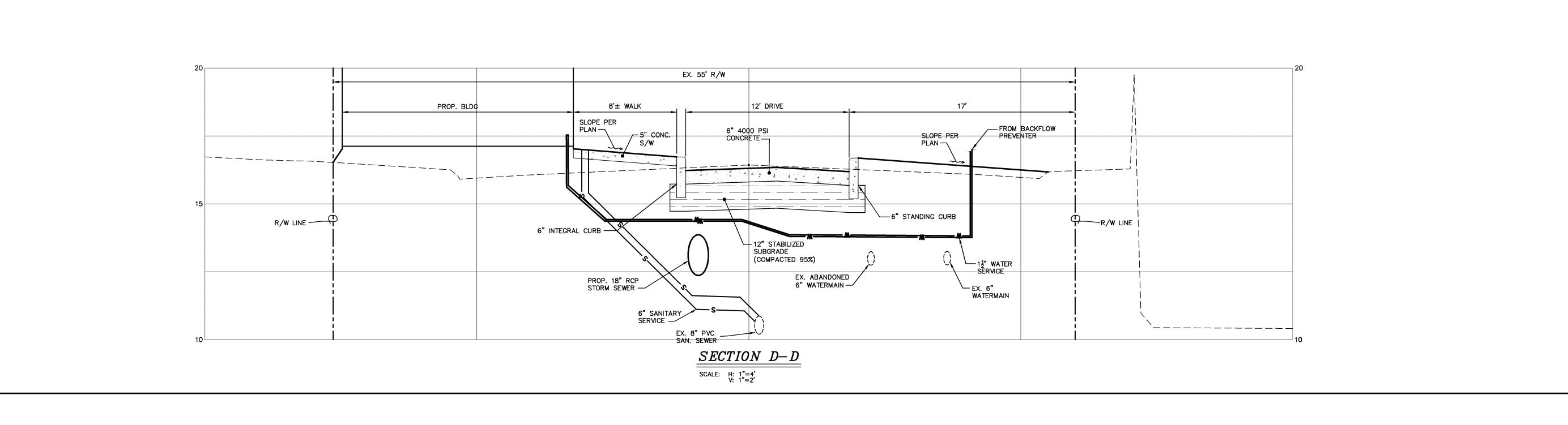
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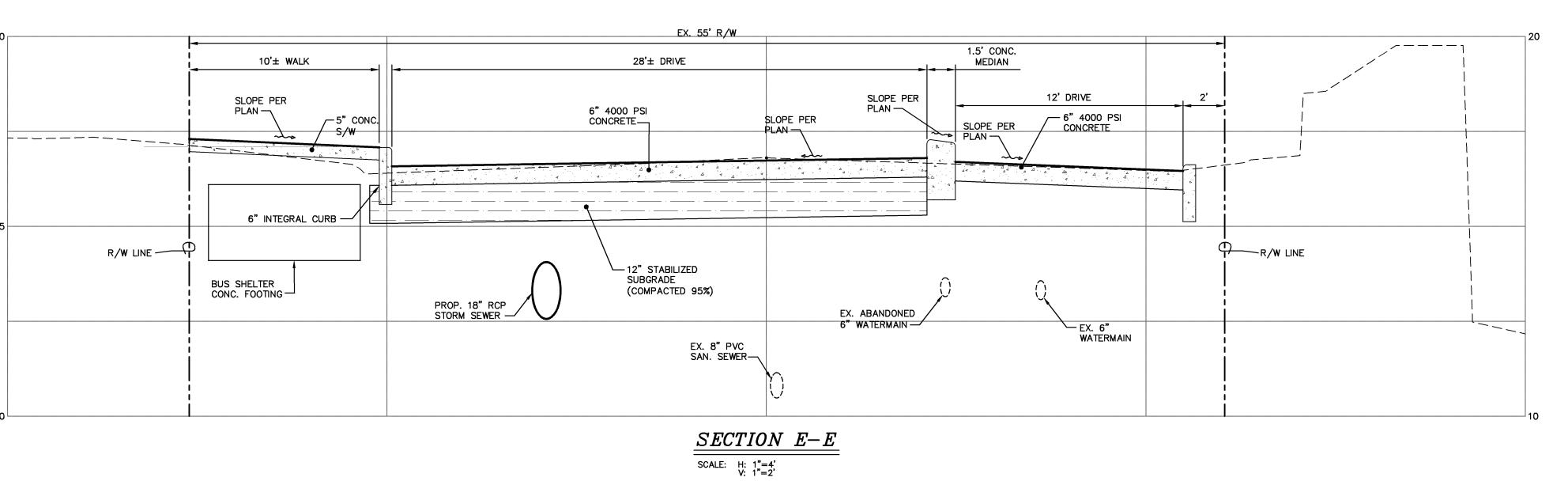
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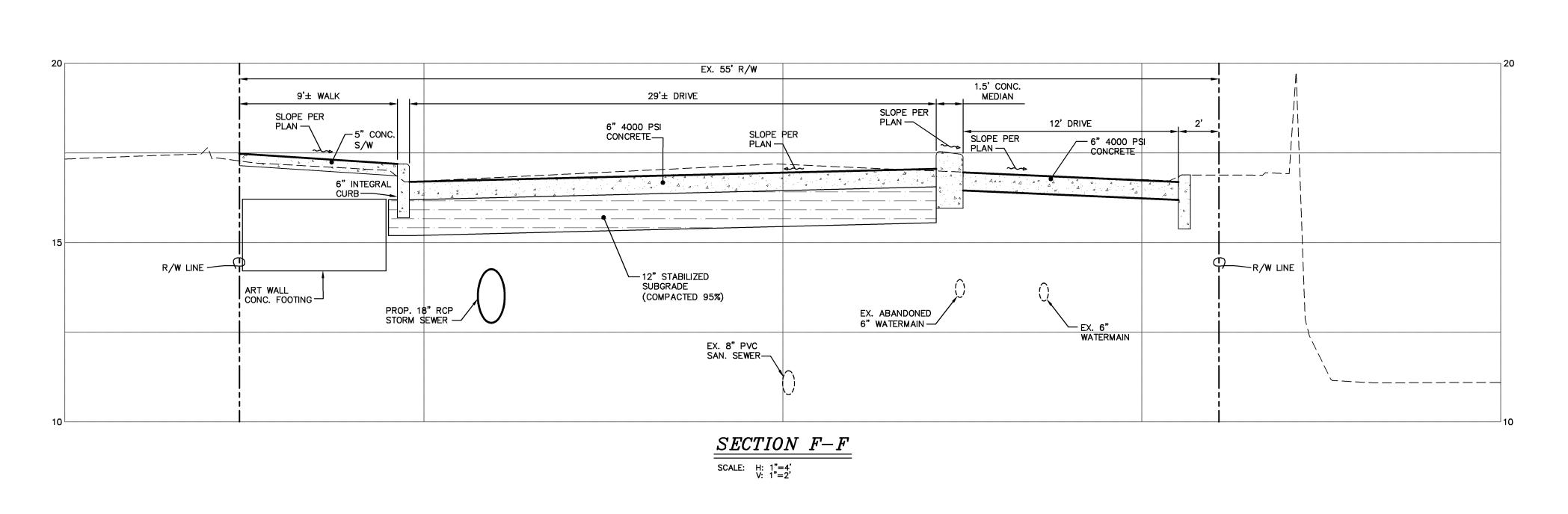
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SECTIONS

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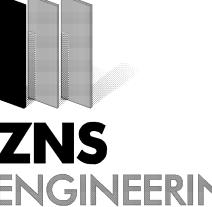


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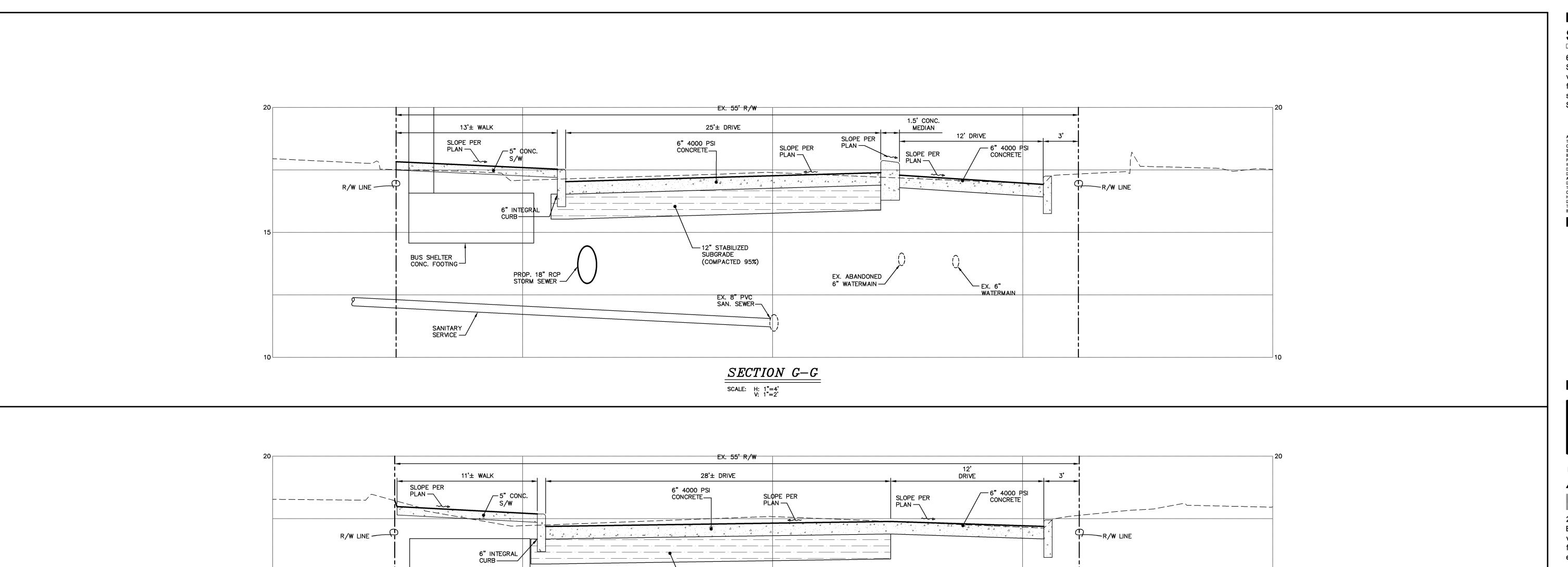
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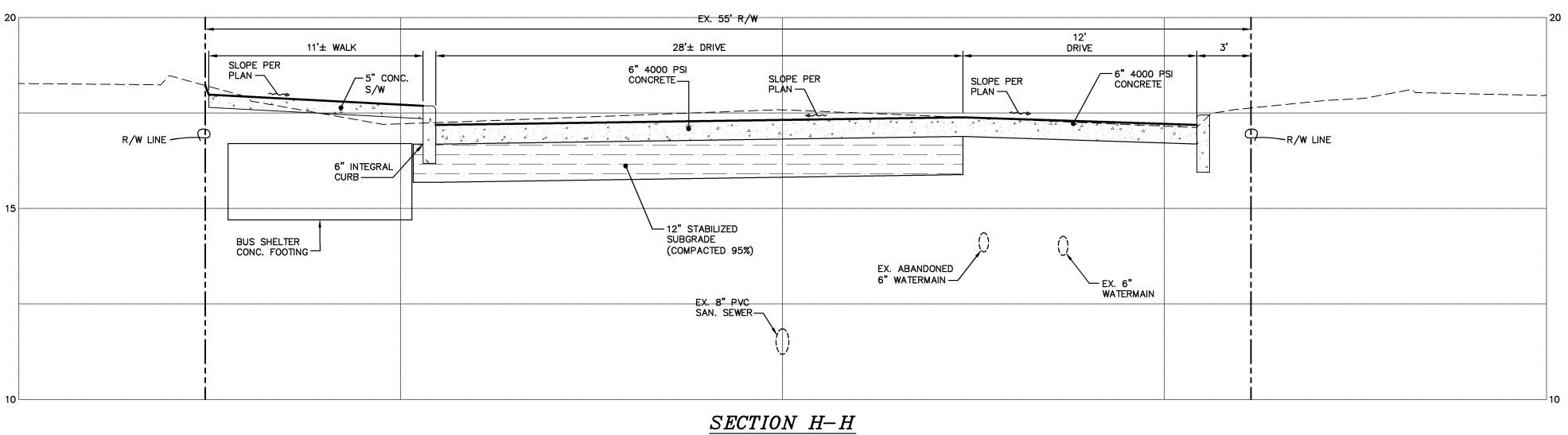
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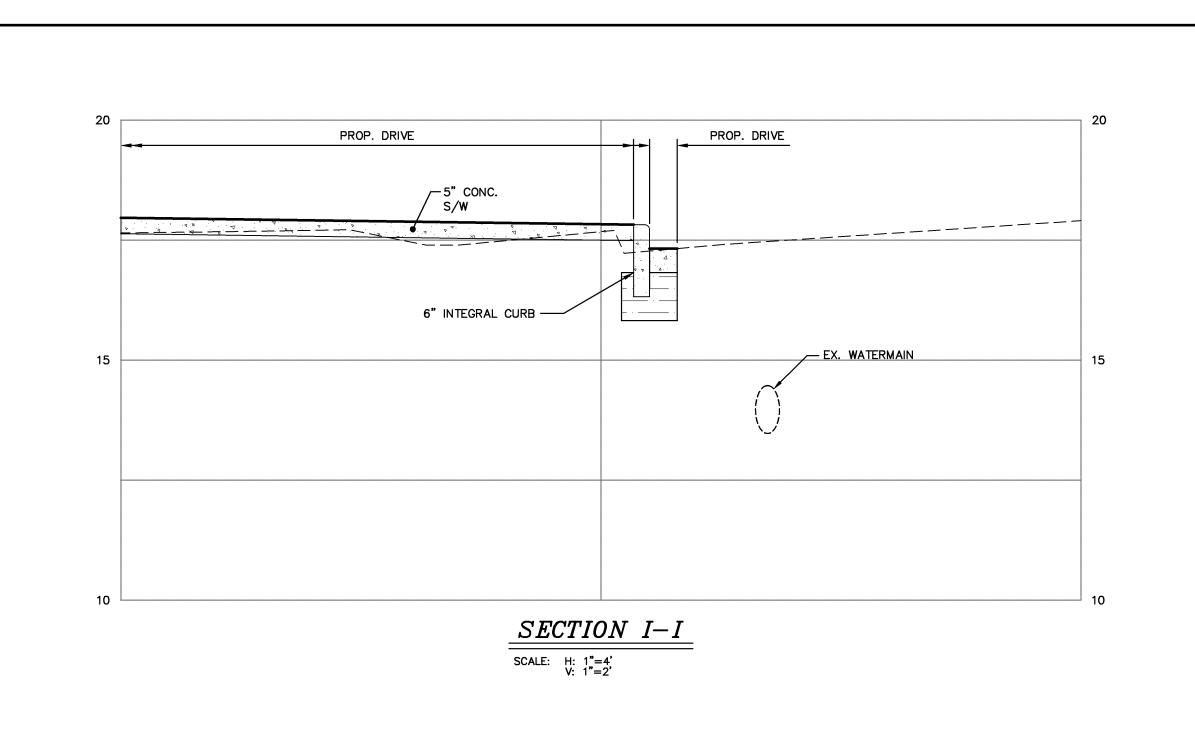
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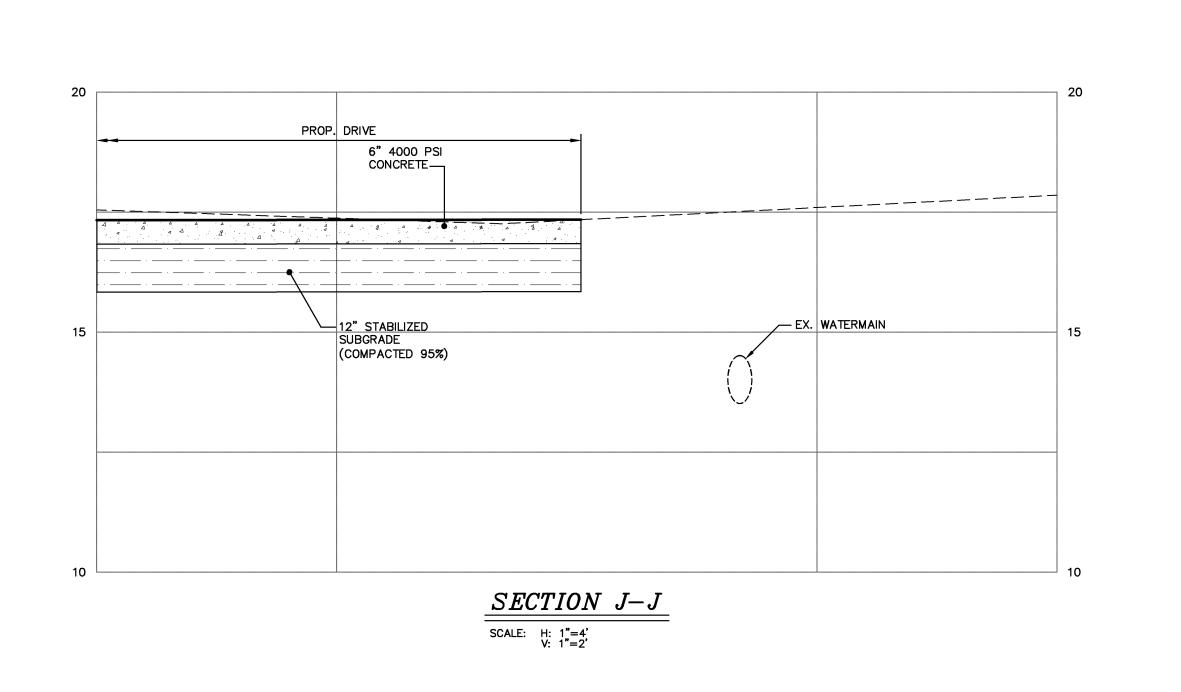
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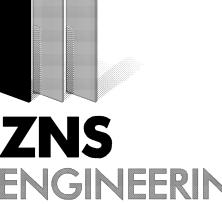
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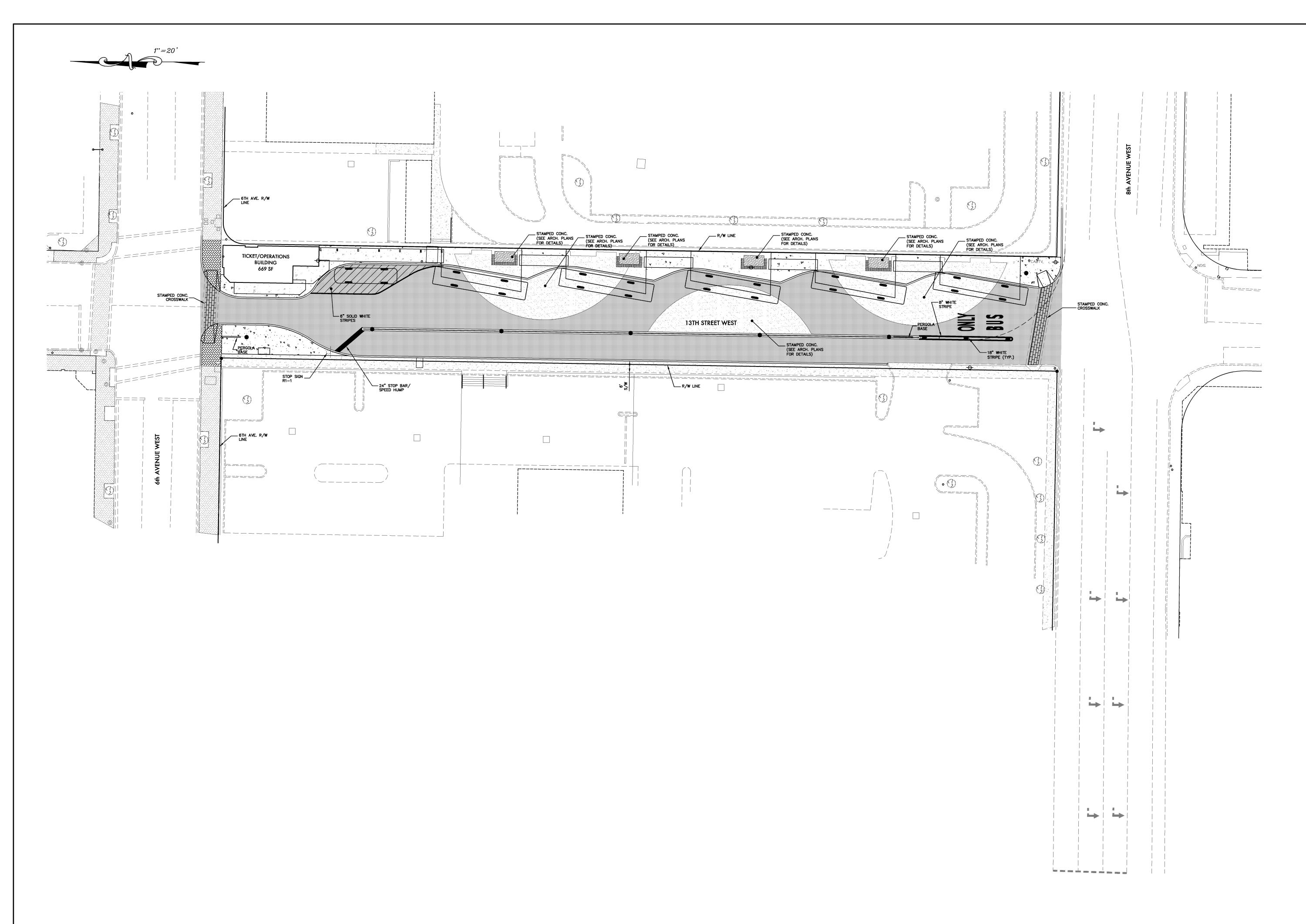
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SECTIONS

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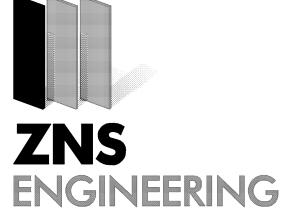
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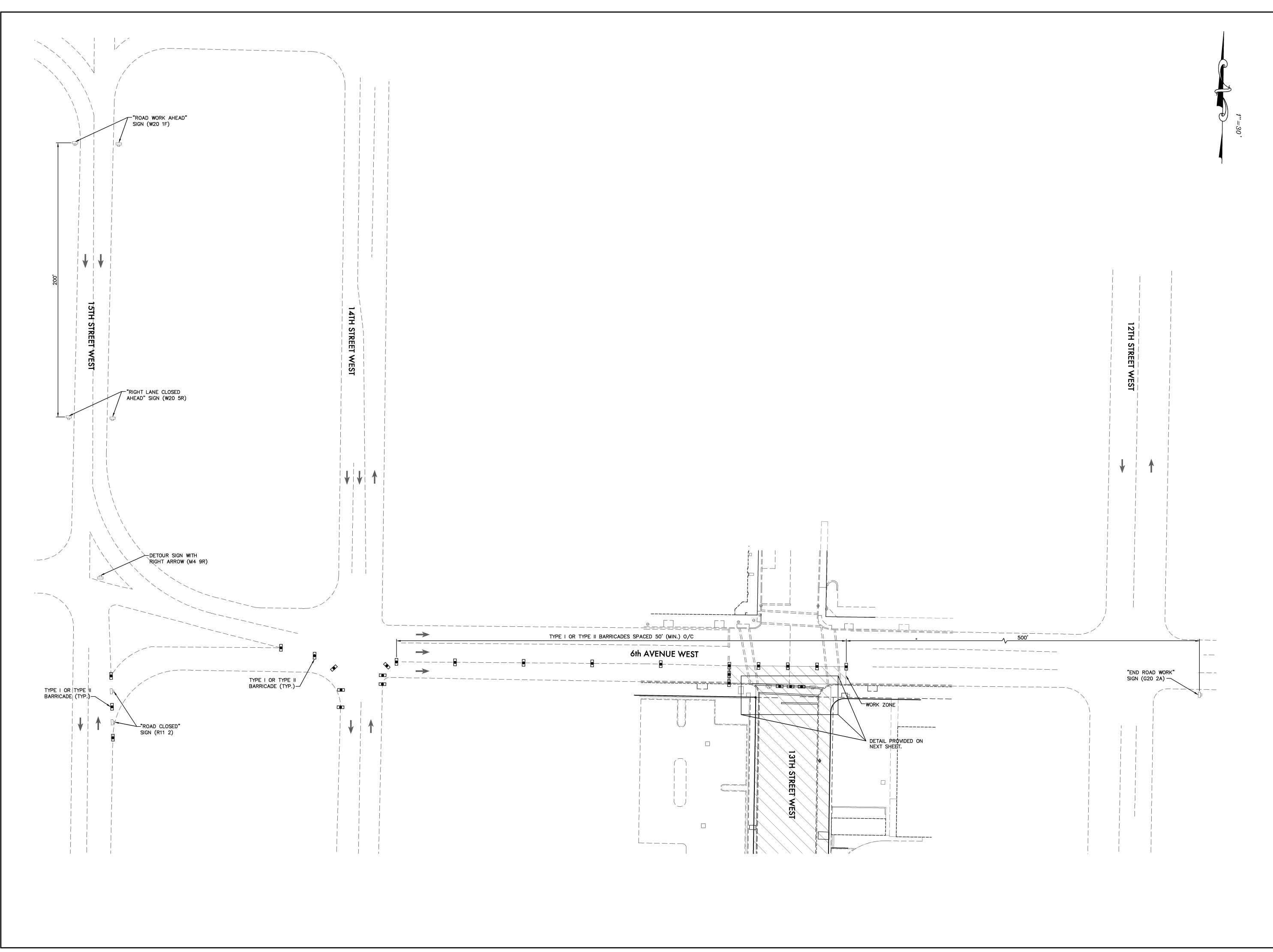
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SIGNAGE AND STRIPING PLAN

C112

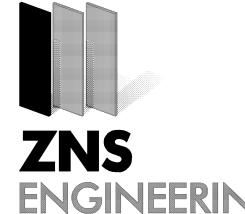


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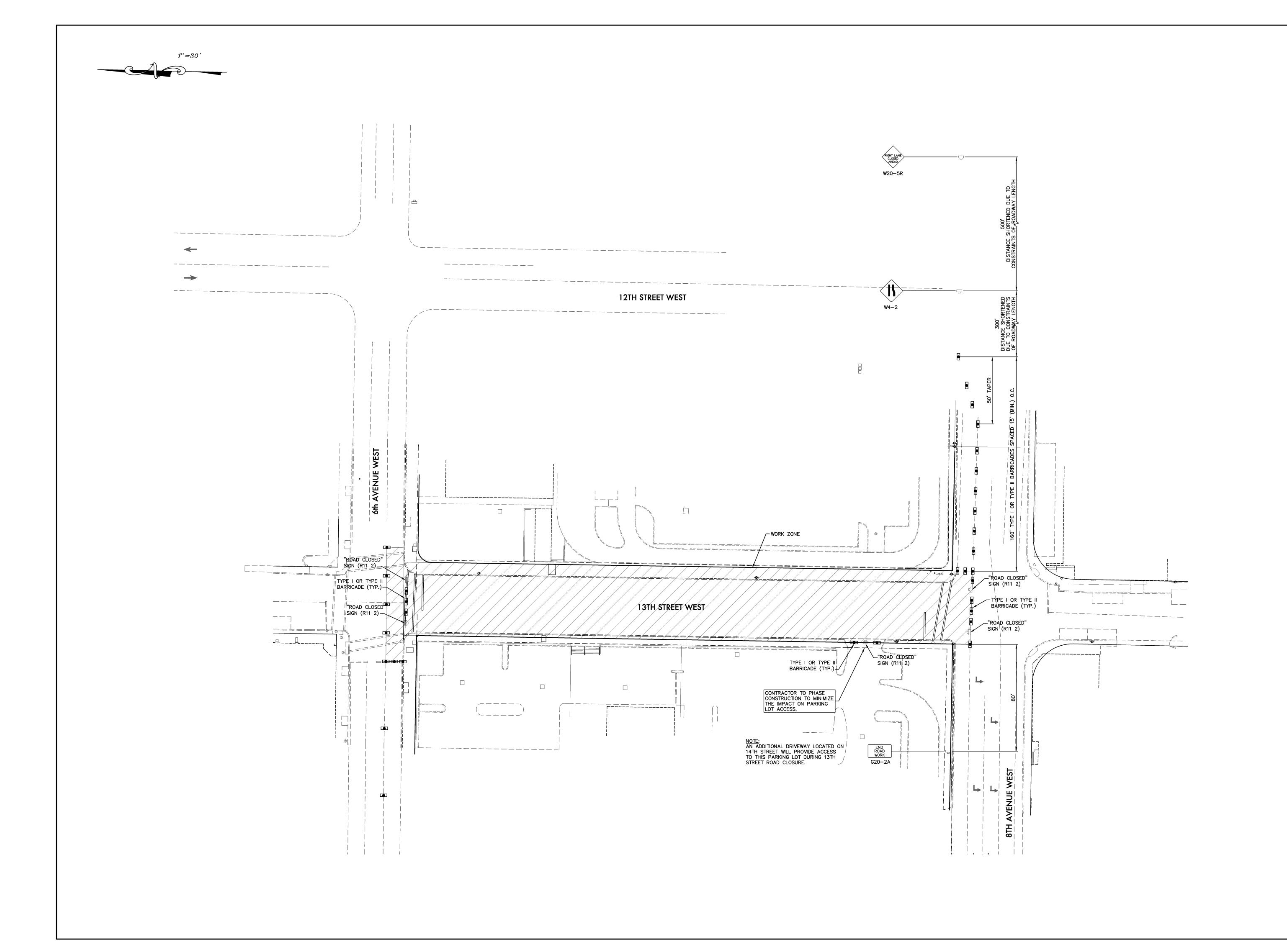
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checked: J. MULOCK
date: 11.12.2010
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MAINTENANCE OF TRAFFIC PLAN

C113

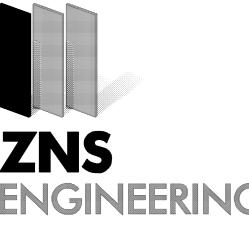


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