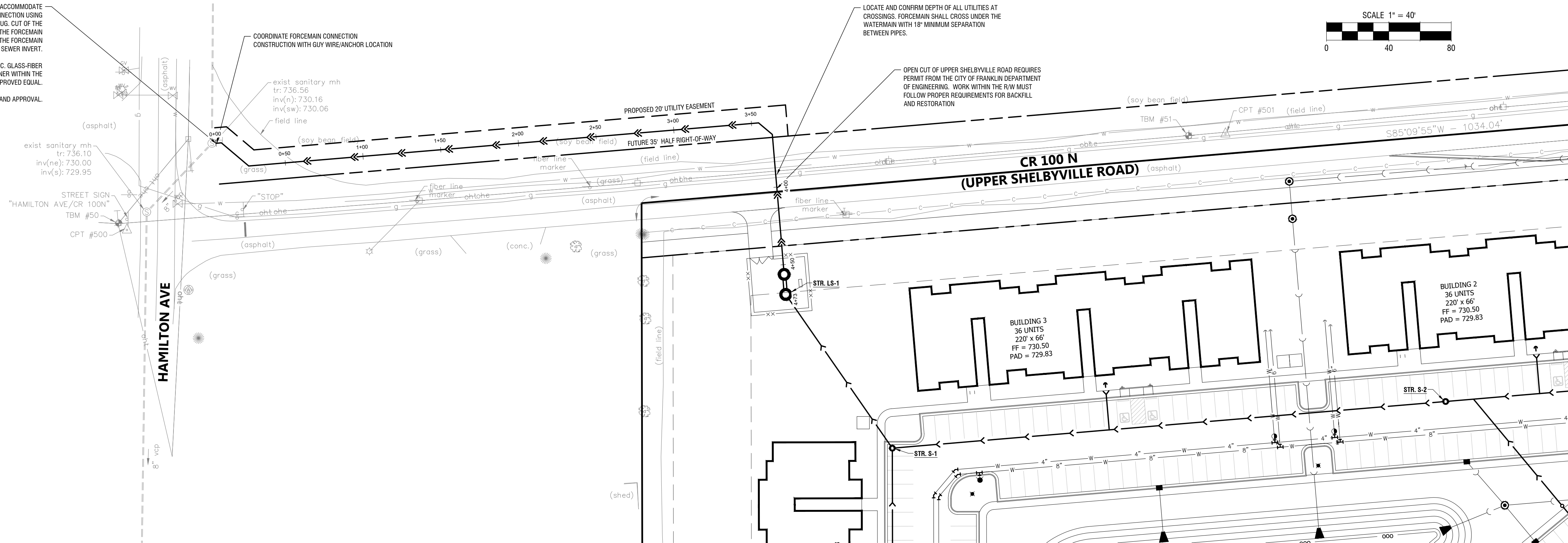


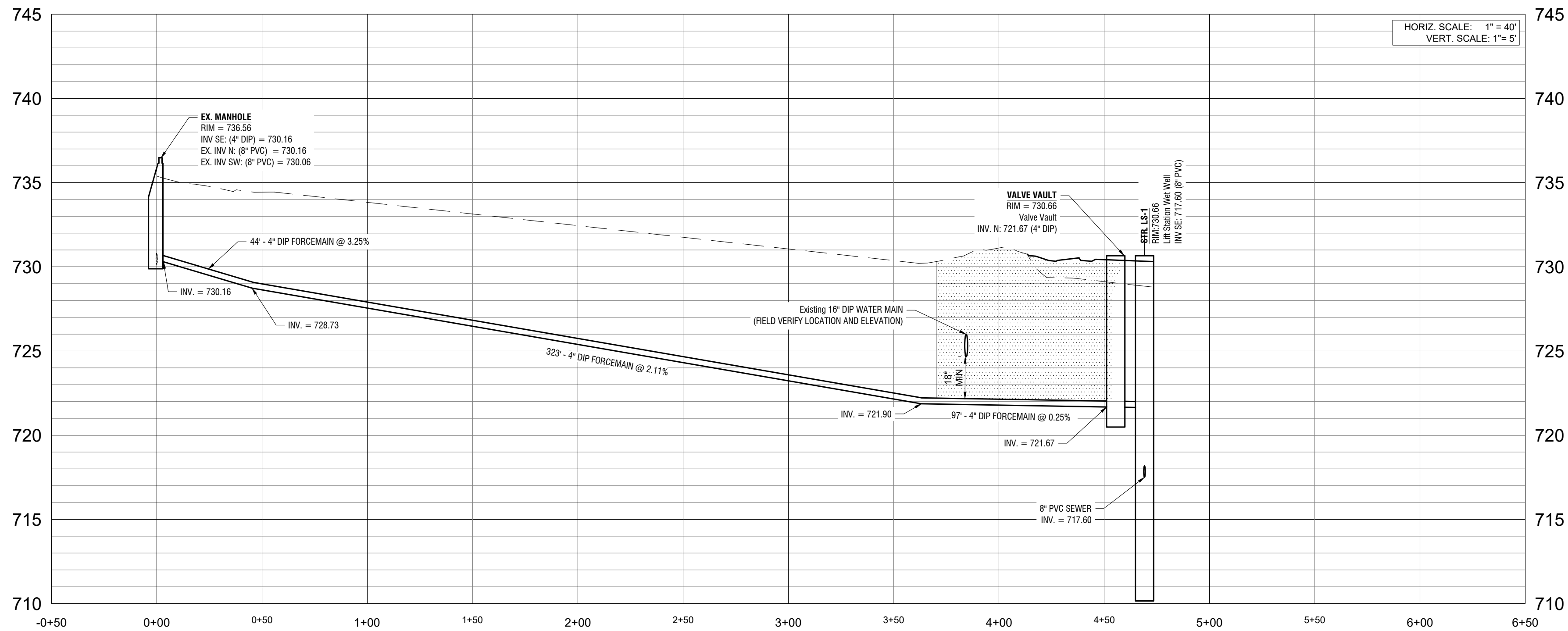
MODIFY EXISTING BENCH AND INVERT TO ACCOMMODATE THE PROPOSED 4" FORCEMAIN CONNECTION USING NON-SHRINK CONCRETE OR MORTAR PLUG. CUT OF THE BENCH AND CREATE AN INVERT BELOW THE FORCEMAIN CONNECTION LOCATION THAT DIRECTS THE FORCEMAIN FLOW INTO THE 8" SEWER INVERT.

INSTALL A CONTAINMENT SOLUTIONS, INC. GLASS-FIBER REINFORCED POLYESTER (FPR) 42" LINER WITHIN THE MANHOLE OR APPROVED EQUAL.

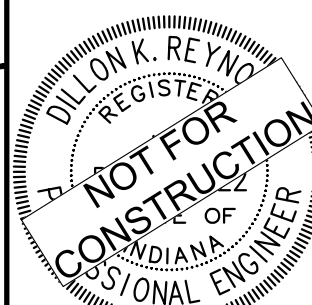
PROVIDE SHOP DRAWING FOR REVIEW AND APPROVAL.



FORCEMAIN



NO.	DATE	REMARKS

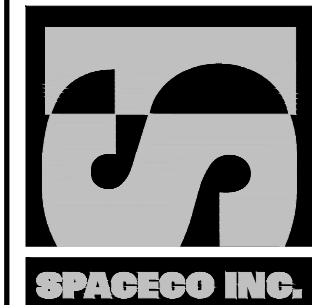


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FORCEMAIN PLAN AND PROFILE
FOUNDER'S POINTE APARTMENTS
UPPER SHELBYVILLE ROAD
FRANKLIN, IN 46131

CONSULTING ENGINEERS
SITE DEVELOPMENT ENGINEERS
LAND SURVEYORS

3850 Priority Way South Drive, Suite 110
Indianapolis, Indiana 46240
Phone: (317) 779-2184



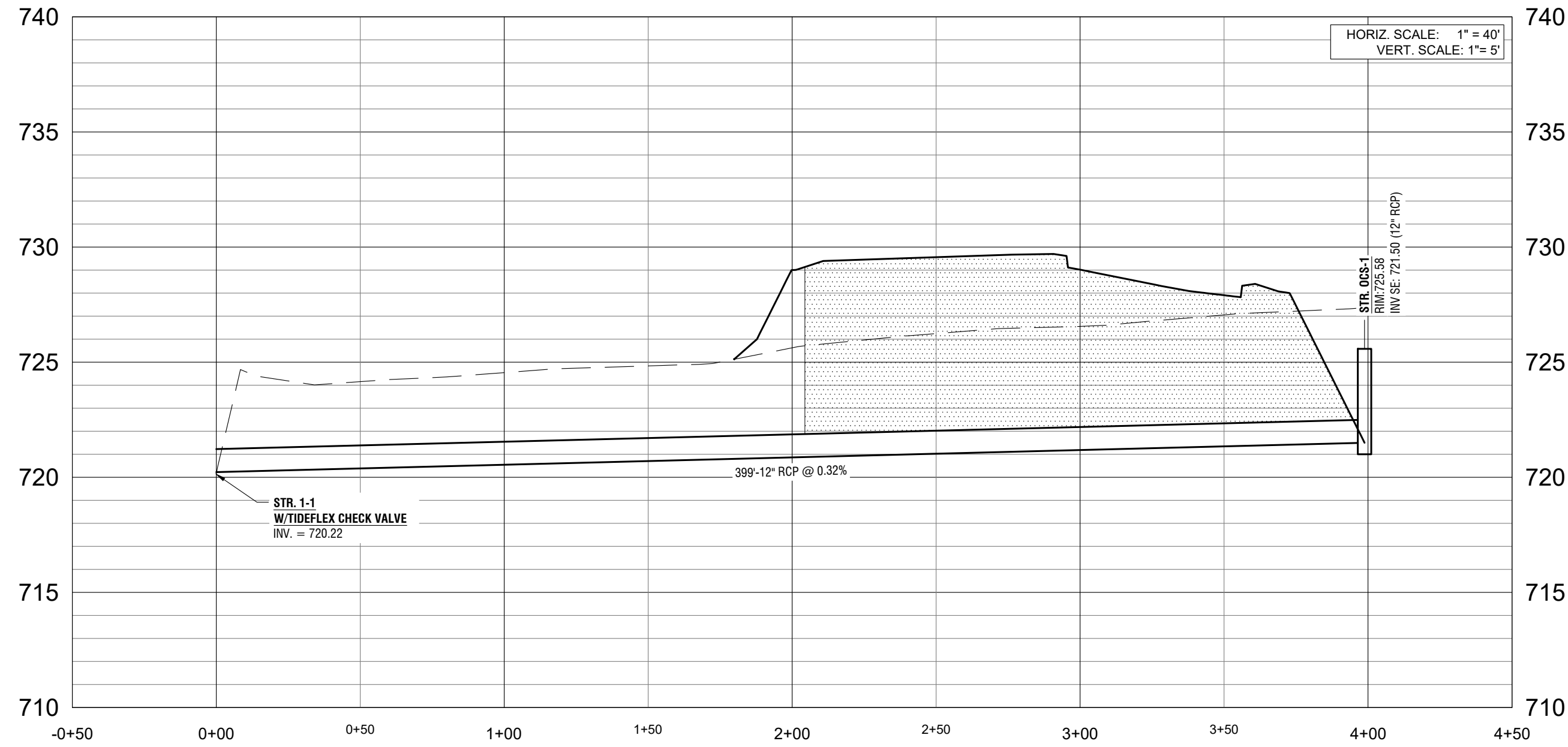
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DATE:
11/01/2021

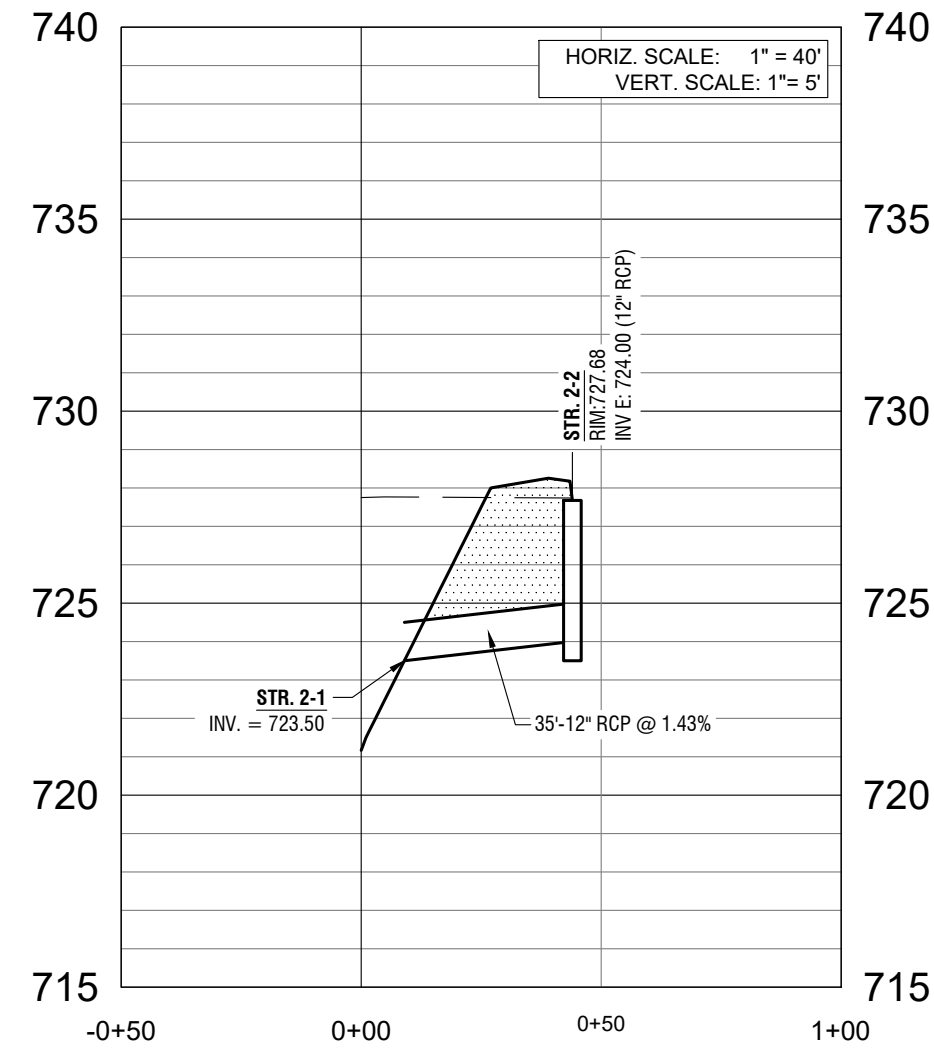
JOB NO.
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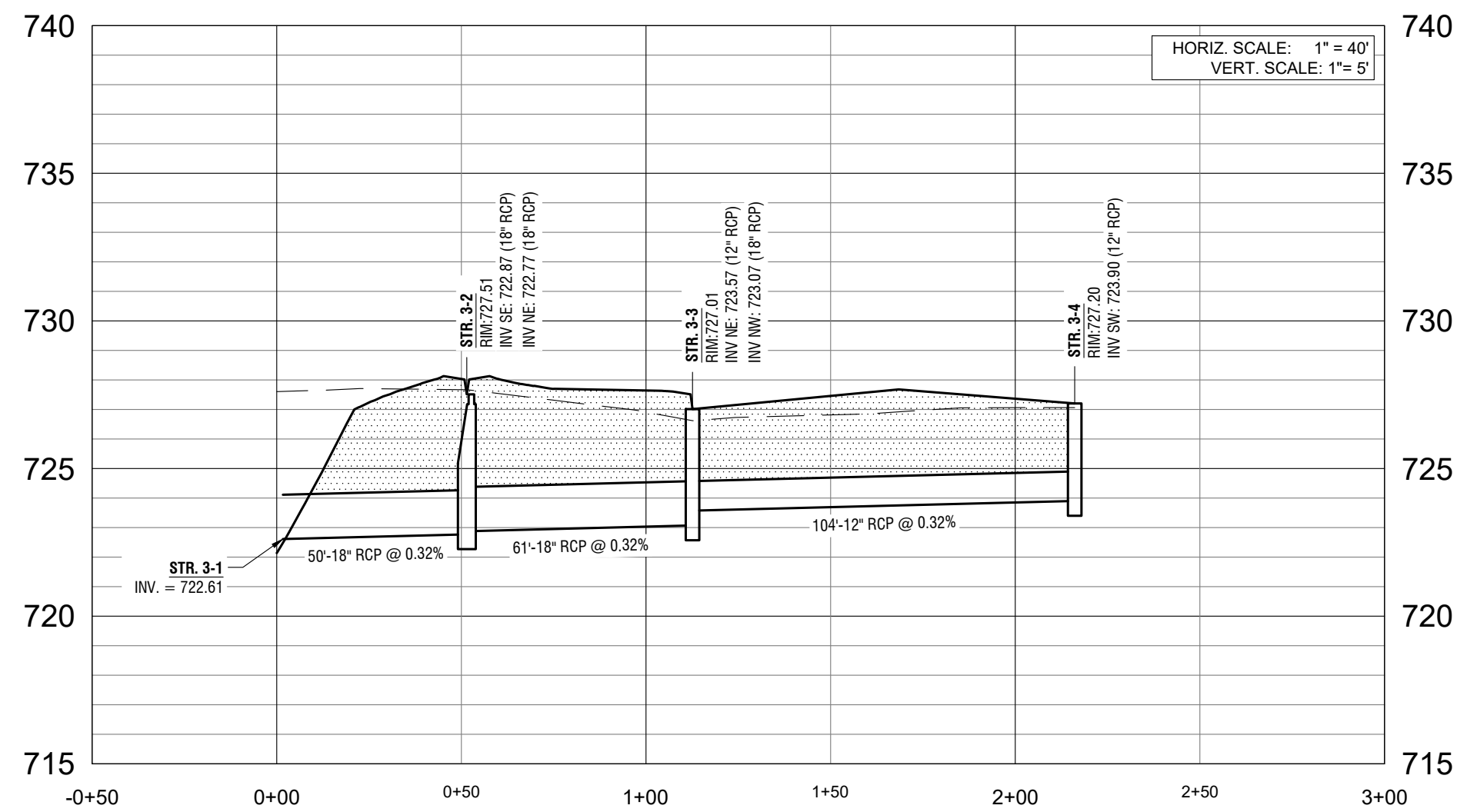
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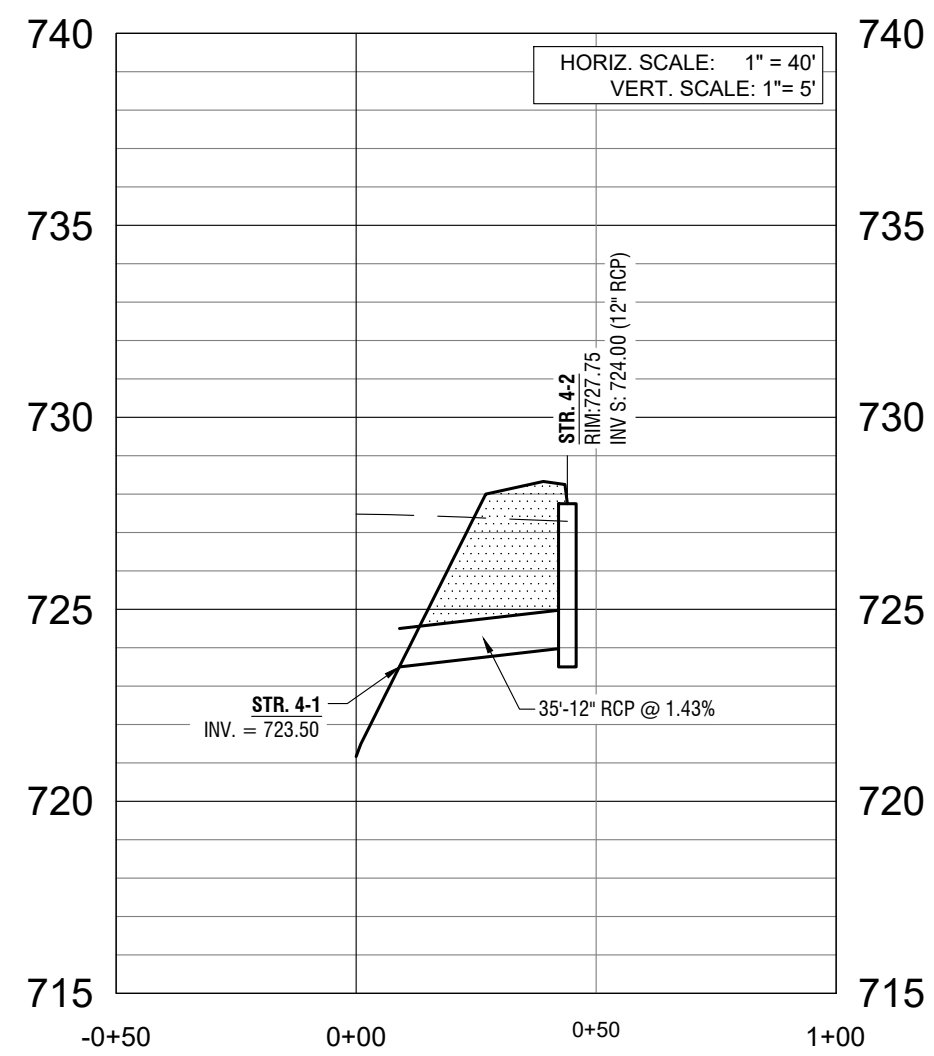
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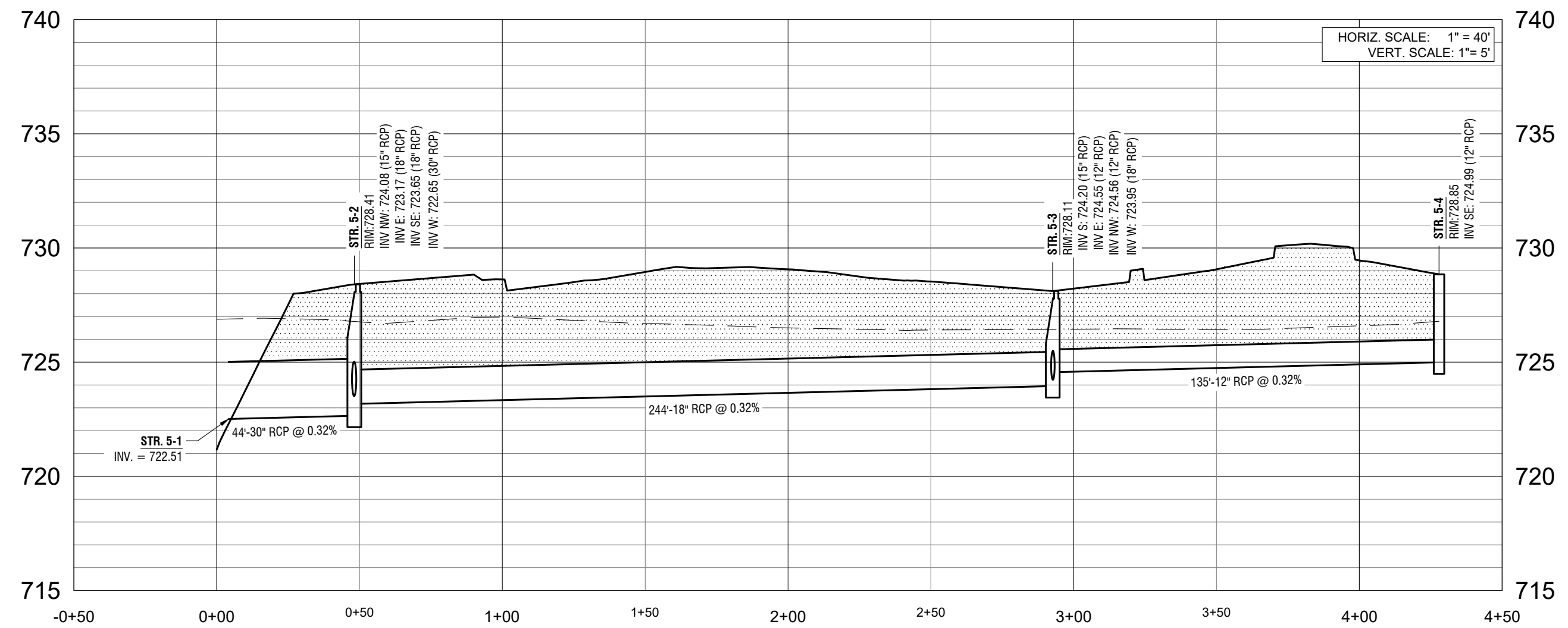
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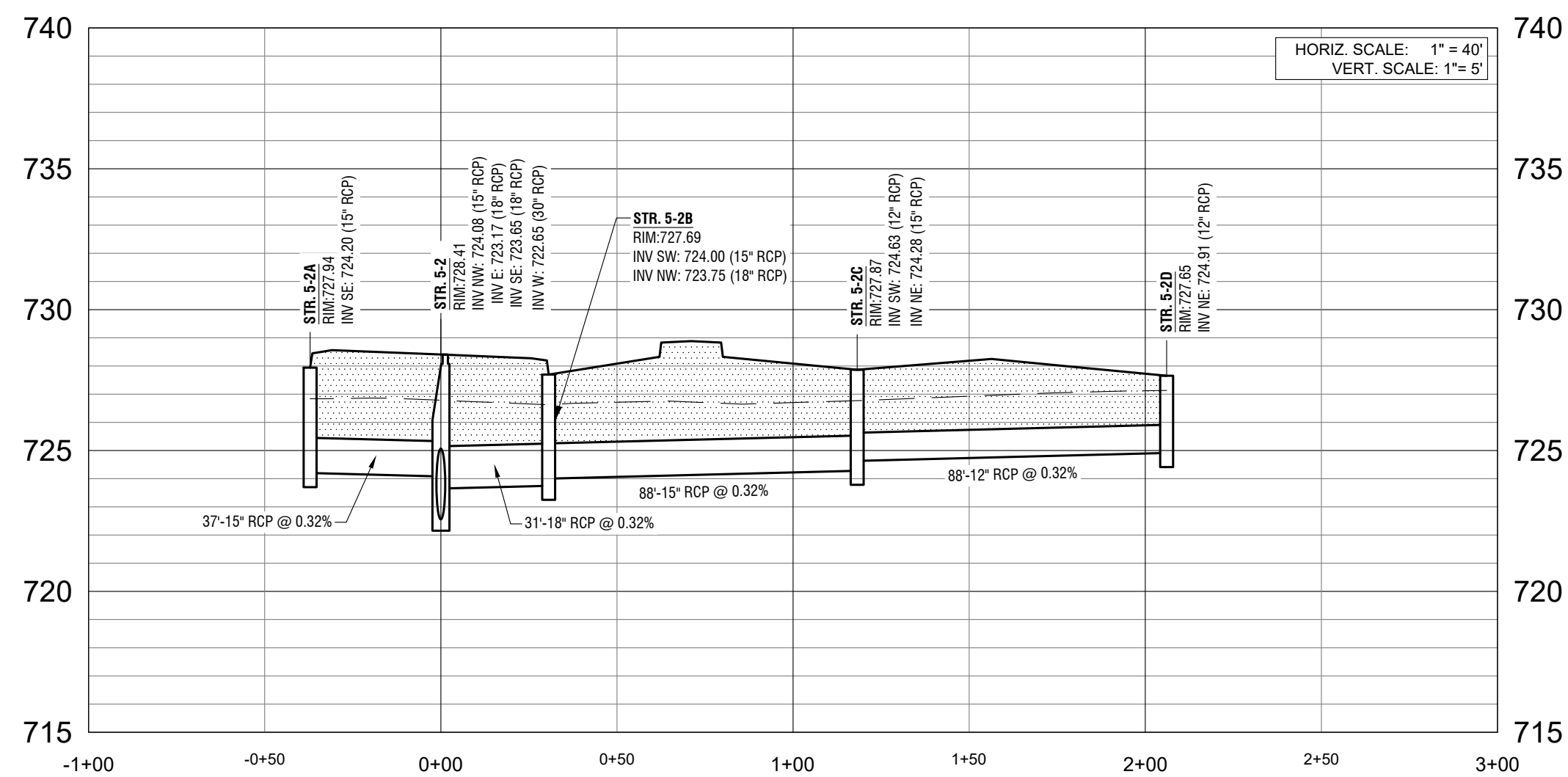
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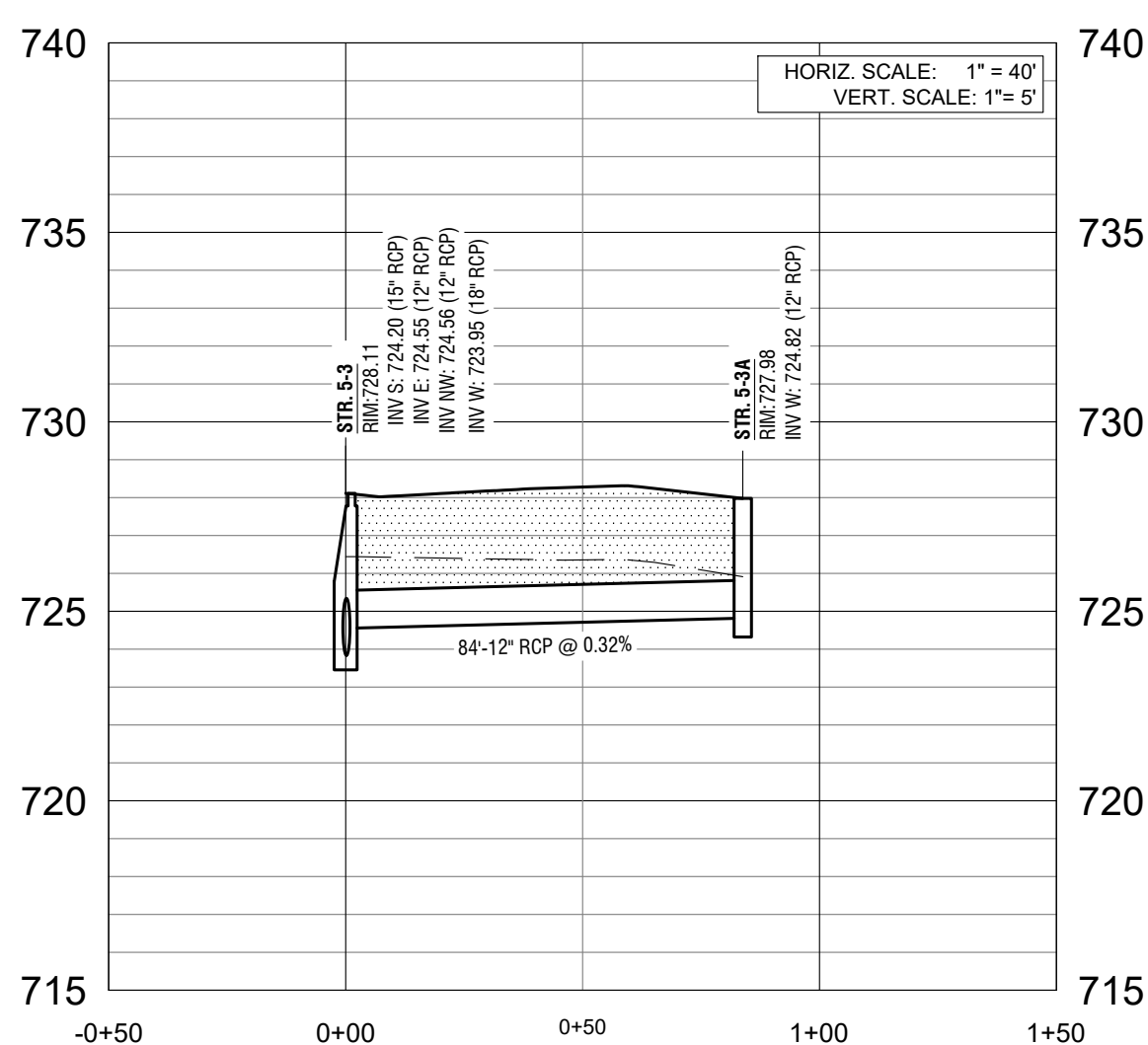
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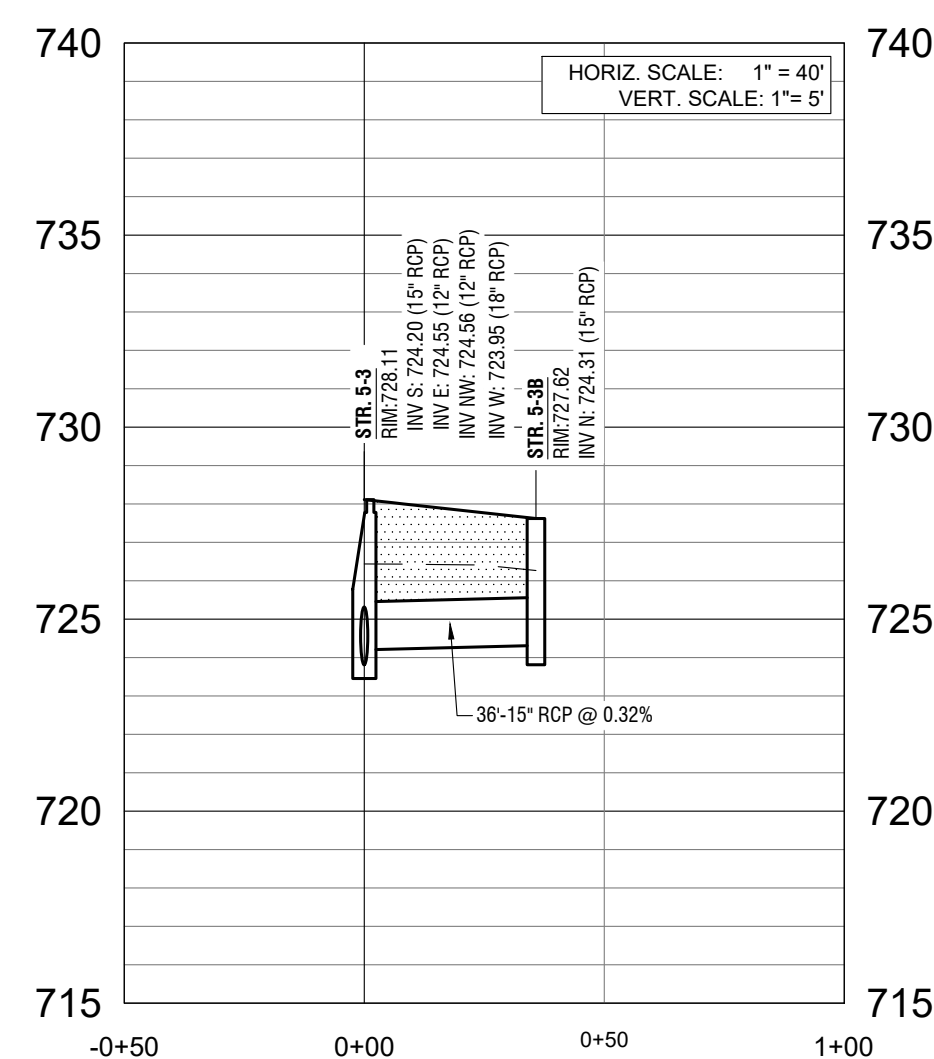
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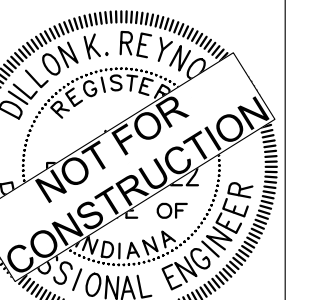
STORM - 5B



STORM - 5C



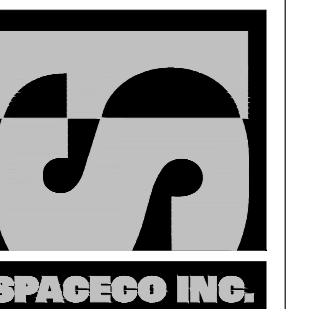
BACKFILL MATERIAL
(NO. 8 COARSE AGREGATE)




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STORM SEWER PROFILES - 1
FOUNDER'S POINTE APARTMENTS
UPPER SHELBYVILLE ROAD
FRANKLIN, IN 46131

CONSULTING ENGINEERS
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LAND SURVEYORS
3850 Priority Way South Drive, Suite 110
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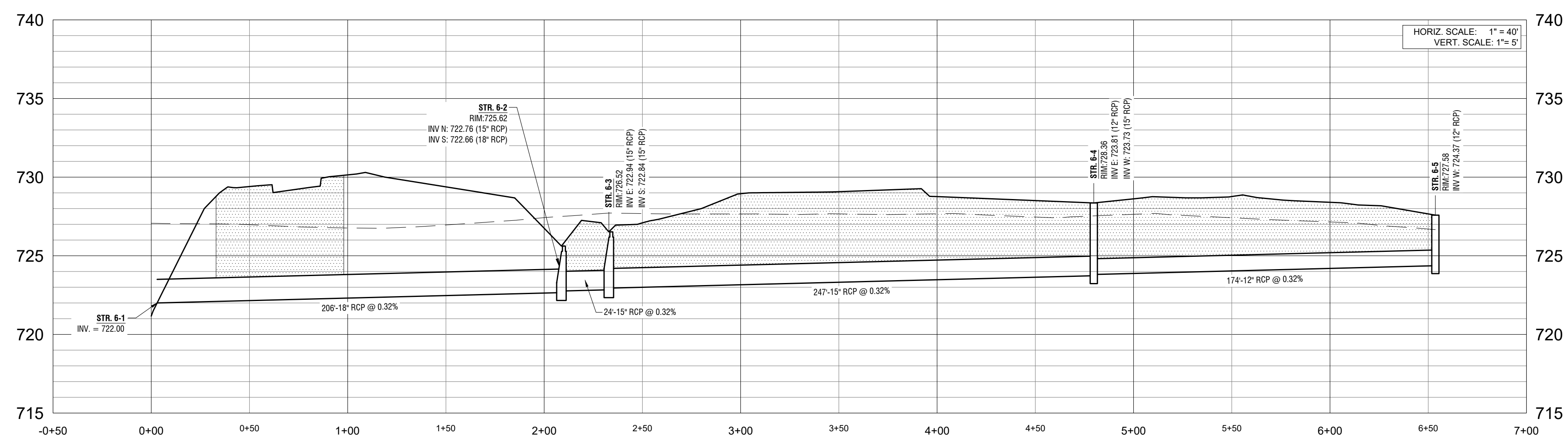


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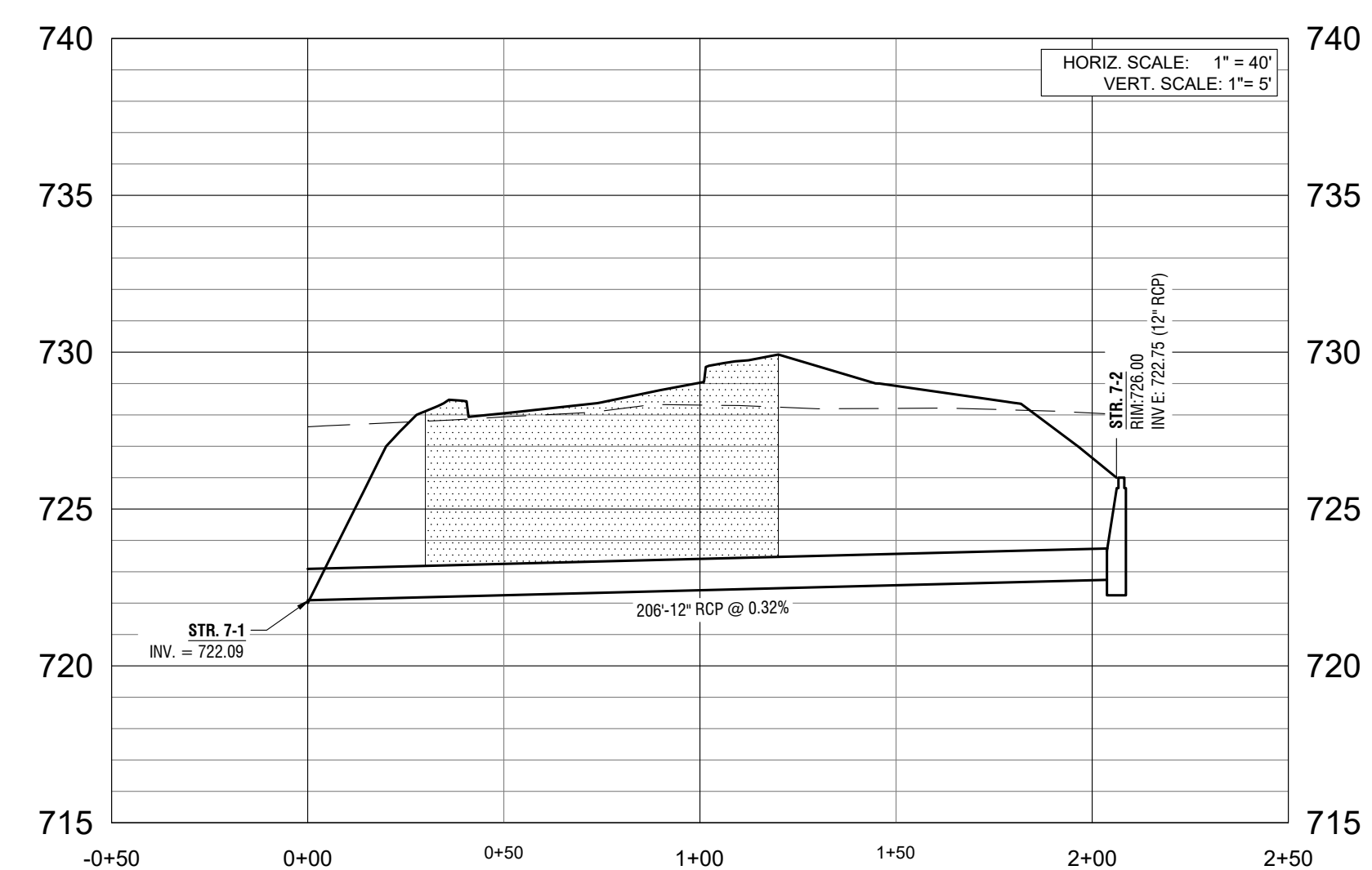
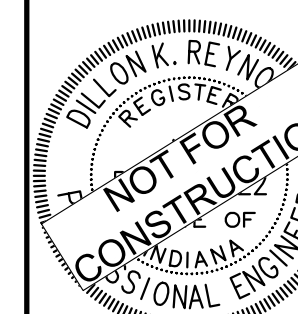


BACKFILL MATERIAL
(NO. 8 COARSE AGREGATE)

STORM - 6



STORM - 7

[illegible]

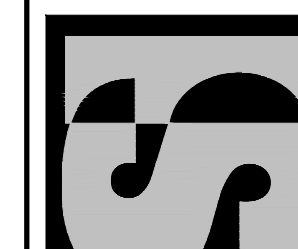
Dillon Reynolds

STORM SEWER PROFILES - 2

FOUNDER'S POINTE APARTMENTS
UPPER SHELBYVILLE ROAD
EPANKI IN 46131

CONSULTING ENGINEERS
SITE DEVELOPMENT ENGINEERS
LAND SURVEYORS

0 Priority Way South Drive, Suite 110
Indianapolis Indiana 46240



FILENAME:
11582UT

DATE:
11/01/2021

JOB NO.
11582

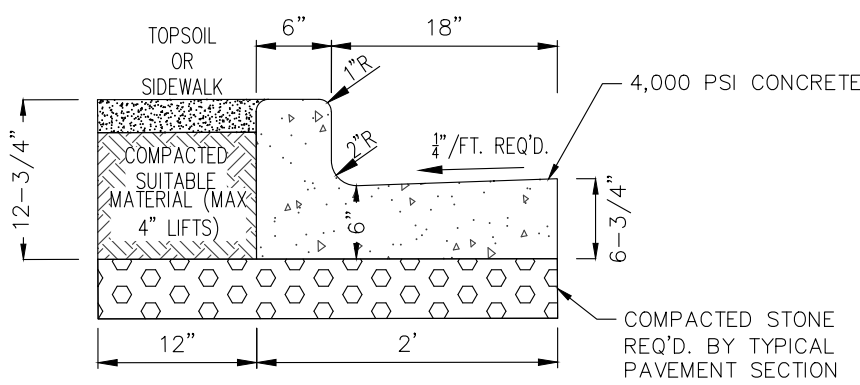
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665

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<div>SITE NAME</div> <div>The area scheduled for construction is known as "Franklin Flats" (hereinafter referred to as the "Project")</div> <div>PROJECT LOCATION</div> <div>The property is located approximately 400 feet east of the intersection of Hamilton Avenue and Upper Shelbyville Road in Franklin, Indiana, at a latitude of 39°29'22" N and a longitude of 86°02'21" W.</div> <div>OWNERS INFORMATION</div> <div> <div>Name: Franklin Flats Apartment Partners, LLC</div> <div>Address: 10 W. Carmel Drive, Suite 100, Carmel, IN 46032</div> <div>Contact: Ryan Thomas</div> <div>Title: Vice President, Construction</div> <div>Telephone: 317-848-6500</div> <div>Email: rthomas@lauth.net</div> </div> <div>OPERATORS INFORMATION</div> <div> <div>Name: Lauth Group</div> <div>Address: 10 W. Carmel Drive, Suite 100, Carmel, IN 46032</div> <div>Contact: Ryan Thomas</div> <div>Title: Vice President, Construction</div> <div>Telephone: 317-848-6500</div> <div>Email: rthomas@lauth.net</div> </div> <div>NOTICE OF INTENT</div> <div>All parties defined as owners must submit a Notice of Intent (NOI) at least 48 hours prior to commencement of on-site construction activities. Submittal of late NOI's is not prohibited; however, authorization under the construction general permit is only for discharges that occur after permit coverage is granted. Unpermitted discharges may be subject to enforcement actions by the EPA. For the purposes of this permit, an owner is defined as any party meeting either of the following requirements:</div> <div> <div>1) The party has operational control over the construction plans and specifications, including the ability to make modifications to those plans and specifications.</div> <div>2) The party has day-to-day operational control of those activities at a project that are necessary to ensure compliance with a stormwater pollution prevention plan for the site or other permit conditions.</div> </div> <div>A2 11" x 17" PLAT</div> <div>Refer to the Site Layout Plan.</div> <div>A3 PROJECT NARRATIVE</div> <div>The project consists of the construction of six (6) ±11,900 square foot multifamily apartment buildings, asphalt parking lots and drives, and associated utility infrastructure. There will be a total of 150 units. A wet detention pond will also be constructed for stormwater management.</div> <div>A4 VICINITY MAP</div> <div>Refer to the Cover Sheet</div> <div>A5 LEGAL DESCRIPTION OF THE PROJECT SITE</div> <div> <div>Section: 13</div> <div>Township: 12N</div> <div>Range: 4E</div> </div> <div>A6 LOCATION OF ALL LOTS AND PROPOSED SITE IMPROVEMENTS</div> <div>The site is not subdivided into lots; therefore, all proposed site improvements are shown on the included plans.</div> <div>A7 HYDROLOGIC UNIT CODE (HUC)</div> <div>0510204090050</div> <div>A8 STATE AND FEDERAL WATER QUALITY PERMITS</div> <div>Indiana Department of Environmental Management (IDEM) Rule 5</div> <div>A9 SPECIFIC POINTS WHERE STORMWATER DISCHARGE WILL LEAVE THE SITE</div> <div>Stormwater drainage from the site will be conveyed via sheet flow and storm sewer and outlet to an on-site detention pond that will discharge into Hurricane Creek.</div> <div>A10 LOCATION AND NAME OF ALL WETLANDS, LAKES, AND WATERCOURSES ON AND ADJACENT TO THE SITE</div> <div>Hurricane Creek is located along the southern boundary of the property.</div> <div>A11 IDENTIFICATION OF ALL RECEIVING WATERS</div> <div>Hurricane Creek is the ultimate receiving water for this project</div> <div>A12 IDENTIFICATION OF ALL POTENTIAL DISCHARGES TO GROUNDWATER</div> <div>There are no locations on site where surface water may be discharged into groundwater.</div> <div>A13 100 YEAR FLOODPLAINS, FLOODWAYS, AND FLOODWAY FRINGES</div> <div>The project site is located within Zone AE as indicated on the Johnson County, IN Flood Insurance Rate Map 18081C0231E dated 1/29/21. A portion of the adjacent floodway also encroaches into the site.</div> <div>A14 PRE-CONSTRUCTION AND POST CONSTRUCTION ESTIMATE OF PEAK DISCHARGE</div> <div> <div>Pre-Construction 10-year discharge = 1.79 cfs</div> <div>Post-Construction 10-year discharge = 0.55 cfs</div> </div> <div>A15 ADJACENT LAND USE</div> <div> <div>North: Agricultural</div> <div>South: Single-Family</div> <div>East: Agricultural</div> <div>West: Religious/Church</div> </div> <div>A16 LOCATIONS AND APPROXIMATE BOUNDARIES OF ALL DISTURBED AREAS</div> <div>Approximate boundaries of disturbed areas are as identified on the Erosion Control Plan.</div> <div>A17 IDENTIFICATION OF EXISTING VEGETATIVE COVER</div> <div>Approximate areas of existing vegetative cover are as shown on the Existing Conditions Plan or Topographic Survey.</div> <div>A18 SOILS MAP INCLUDING SOIL DESCRIPTION AND LIMITATIONS</div> <div> <div>The Natural Resources Conservation Service (NRCS) Web Soil Survey of Johnson County, Indiana indicates Ockley loam (ObaA), Rensselaer silt clay loam (Re), Sleeth loam (Sk), Ockley loam-Urban Land Complex (Yoba), and Rensselaer silt clay loam-Urban Land Complex (YreA) are located on the site.</div> <div>The on-site soil will be treated as recommended by the geotechnical engineer if the conditions are unsuitable for the proposed construction.</div> </div> <div>A19 LOCATIONS, SIZE, AND DIMENSIONS FOR THE PROPOSED STORMWATER SYSTEMS</div> <div> <div>Locations of stormwater systems: Refer to the Site Utility Plan</div> <div>Size of storm sewers: Refer to the Site Utility Plan or Storm Sewer Profiles</div> <div>Details of storm inlets and manholes: Refer to the Construction Details</div> </div> <div>A20 PLANS FOR ANY OFF-SITE CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS PROJECT</div> <div>Asphalt trail and drive construction within the right-of-way.</div> <div>A21 LOCATIONS OF PROPOSED SOIL STOCKPILES AND/OR BORROW/DISPOSAL</div> <div>Excess soil shall be immediately stockpiled, surrounded with silt fence, and seeded and/or removed from the project site in accordance with all applicable laws. If topsoil stockpiles are anticipated for this project, they are shown on the Erosion Control Plan.</div> <div>A22 EXISTING SITE TOPOGRAPHY</div> <div>Refer to the Existing Conditions Plan or Topographic Survey</div> <div>A23 PROPOSED FINAL SITE TOPOGRAPHY</div> <div>Refer to the Site Grading Plan</div>	<div>B2 DESCRIPTION DESCRIBING STORMWATER QUALITY MEASURE IMPLEMENTATION RELATIVE TO LAND-USE ACTIVITIES</div> <div> <div>Pre-construction Activity</div> <div> <div>1. The exact locations of all existing utilities within the project limits are to be verified prior to construction.</div> <div>2. Schedule pre-construction meeting with local stormwater authority 48 hours prior to start of construction.</div> <div>3. Install protection fencing for existing trees to remain in place within the project limits</div> </div> <div>Construction Site Access</div> <div> <div>1. Install gravel construction entrance</div> <div>2. Post the NOI and contact information at the construction entrance. NOI to remain posted for duration of the project.</div> <div>3. Install construction staging pads, fueling station, material storage areas, concrete washout, construction parking areas, and stabilize construction routes</div> </div> <div>Perimeter Controls</div> <div>1. Utilize the gravel construction entrance for installation of the perimeter silt fence. Add stone if needed.</div> <div>Initial Land Clearing and Grading Activities</div> <div> <div>1. Add protection measures to existing inlets.</div> <div>2. Strip the topsoil and stabilize the topsoil stockpile.</div> </div> <div>Secondary Land Grading Activities</div> <div> <div>1. Begin site grading/construction of detention basins (if applicable) and stabilize any soil stockpiles that will be left dormant for more than 10 days.</div> <div>2. Complete the cut and fills on the site. Final grade and seed the pond slopes (if applicable). Stabilize slopes with erosion control blanket.</div> <div>3. Install storm sewer system and install inlet protection immediately upon complete of the inlet and install rip-rap outlet protection prior to installing outlets.</div> </div> <div>Surface Stabilization</div> <div> <div>1. Apply temporary seeding and stabilize slopes in areas where rough grading has been completed.</div> <div>2. Apply permanent seeding and stabilize slopes in areas where final grading has been completed.</div> </div> <div>Building Construction</div> <div> <div>1. Prior to building construction install stone surface for paved areas.</div> <div>2. Building pads left dormant for more than 10 days, must be temporarily seeded.</div> <div>3. Start building construction. Install staging area for building materials and stabilize.</div> </div> <div>Final Shaping/Landscaping</div> <div> <div>1. Utilize topsoil salvage in applicable areas and apply permanent seeding</div> <div>2. Apply permanent seeding around the perimeter of the site.</div> <div>3. Complete utility installation, curbs, paving, and building construction.</div> <div>4. Install landscaping plant material and stabilize all disturbed areas.</div> <div>5. Remove all erosion and sediment control practices when areas have a uniform grass cover.</div> </div> </div> <div>B3 STABLE CONSTRUCTION ENTRANCE LOCATIONS AND SPECIFICATIONS</div> <div>Construction entrances will be in place prior to any site construction or demolition. Entrances are shown on the Erosion Control Plan. Refer to the Erosion Control Details for details.</div> <div>B4 SEDIMENT CONTROL MEASURES FOR SHEET FLOW AREAS</div> <div>Sheet flow areas will be protected by seed and mulch or hydroseeding. Erosion control blankets will be installed on sloped areas where the slope exceeds 4:1 (horizontal to vertical). Silt fencing will be utilized to prevent sedimentation from leaving the site. Refer to the Erosion Control Plan for locations and the Erosion Control Details for details.</div> <div>B5 SEDIMENT CONTROL MEASURES FOR CONCENTRATED FLOW AREAS</div> <div>Proposed swales will be stabilized with erosion control blankets. Straw bales and silt fences will not be allowed as concentrated flow protection measures. Refer to the Erosion Control Plan for locations and the Erosion Control Details for details.</div> <div>B6 STORM SEWER INLET PROTECTION MEASURE LOCATIONS AND SPECIFICATIONS</div> <div>The contractor shall install appropriate inlet protection measures at each inlet. Refer to the Erosion Control Plan for locations and the Erosion Control Details for details. Straw bales will not be allowed as inlet protection measures. These inlet protection measures should be installed as soon as the inlets are installed or shortly thereafter.</div> <div>B7 RUNOFF CONTROL MEASURES</div> <div>N/A</div> <div>B8 STORMWATER OUTLET PROTECTION MEASURES</div> <div>Riprap aprons will be utilized for protection at stormwater outlet points.</div> <div>B9 GRADE STABILIZATION STRUCTURE LOCATIONS</div> <div>N/A</div> <div>B10 LOCATION, DIMENSIONS, SPECIFICATIONS, AND CONSTRUCTION DETAILS OF EACH STORMWATER QUALITY MEASURE</div> <div>Refer to the Erosion Control Plan for locations of each stormwater quality measure and the Erosion Control Details and Site Construction Details.</div> <div>B11 TEMPORARY SURFACE STABILIZATION METHODS APPROPRIATE FOR EACH SEASON</div> <div>Surface stabilization is required on any bare or thinly vegetated areas that is scheduled or likely to remain inactive for a period of 10 days or more. Refer to the Temporary Seeding Detail within the Erosion Control Plan for specifics on soil amendments, seed mixtures, and mulching. The surface stabilization for the lots needs to be established as soon as possible to prevent dirt wash-out into the streets. If this is not possible, then silt fencing will need to be installed along the back of curbs.</div> <div>B12 PERMANENT SURFACE STABILIZATION SPECIFICATIONS</div> <div> <div>1.) Loosen lawn area to a minimum depth of 6 inches. Mix soil amendments and fertilizers with topsoil at rates specified. Organic soil amendments such as peat, compost, or manure shall be applied at 2" depth evenly over soil and incorporated into the top 6" of topsoil. Provide fertilizer with percentages of nitrogen required to provide not less than 1 pound of actual nitrogen per 1,000 square feet of lawn area and not less than 4 percent phosphoric acid and 2 percent potassium. At least 50 percent of nitrogen to be organic form. Delay mixing of fertilizer if planting will not follow placing of planting soil within a few days.</div> <div>2.) Fertilizer for lawns: provide a fast release fertilizer with a composition of 1 lb per 1,000 square feet of actual nitrogen, 4 percent phosphorous, and 2 percent potassium by weight.</div> <div>3.) Slow-release fertilizer for trees and shrubs: granular fertilizer consisting of 50 percent water-insoluble nitrogen, phosphorous and potassium made up of a composition by weight of 5 percent.</div> <div>4.) Grade lawn and grass areas to a smooth, even surface with loose, uniformly fine texture. Limit fine grading to areas that can be planted within immediate future. Remove trash, debris, stones larger than 1 inch diameter, and other objects that may interfere with planting or maintenance operations. Sow seed using a spreader of seeding machine. Do not seed when wind velocity exceeds 5 miles per hour.</div> <div>5.) Distribute seed evenly over entire area by sowing equal quantity in 2 directions at right angles to each other.</div> <div>6.) Rake seed lightly into top 1/8 inch of soil, roll lightly, and water with a fine spray.</div> <div>7.) Install erosion control blankets as indicated on the Erosion Control Plan.</div> <div>8.) Protect seeded areas against erosion by spreading clean, seed-free straw mulch after completion of seeding operations. Spread uniformly to form a continuous blanket not less than 1-1/2 inches loose measurements over seeded areas.</div> <div>9.) Water newly planted lawn areas and keep moist until new grass is established. Immediately repair any lawn areas disturbed by construction activities including tree and shrub installation.</div> <div>10.) Refer to the Permanent Seeding Details within the Erosion Control Detail Sheet, for timing of permanent seeding, grass seed specifications and mulching specifications.</div> </div> <div>B13 MATERIAL HANDLING AND SPILL PREVENTION PLAN</div> <div> <div>Solid Waste Disposal</div> <div>No solid material, including building materials, is permitted to be discharged to surface waters or buried on site. All solid waste materials, including disposable materials incidental to construction activity, must be collected in containers or closed dumpsters. The collection containers must be emptied periodically and the collected material hauled to a landfill permitted by the State and/or appropriate local municipality to accept the waste for disposal.</div> <div>A foreman or supervisor should be designated in writing to oversee, enforce, and instruct construction workers on proper solid waste procedures.</div> <div>Hazardous Waste</div> <div>Whenever possible, minimize the use of hazardous materials and generation of hazardous wastes. All hazardous waste materials will be disposed in the manner specified by federal, state, or local regulations or by the manufacturer.</div> <div>Use containment berms in fueling and maintenance areas and where potential for spills is high.</div> <div>A foreman or supervisor should be designated in writing to oversee, enforce, and instruct construction workers on proper hazardous waste procedures. The location of any hazardous waste storage areas should be indicated on the stormwater pollution prevention plan by the operator following on-site location of the facility.</div> <div>Dust Control/Off-Site Vehicle Tracking</div> <div>During construction, water trucks should be used, as needed, by each contractor or subcontractor to reduce dust. After construction, the site should be stabilized to reduce dust.</div> <div>Construction traffic should enter and exit the site at a Construction Entrance with a rock pad or equivalent device. The purpose of the rock pad is to minimize the amount of soil and mud that is tracked onto existing street. If sediment escapes the construction site, off-site accumulations of sediment must be removed a frequency sufficient to minimize off-site impacts.</div> </div>
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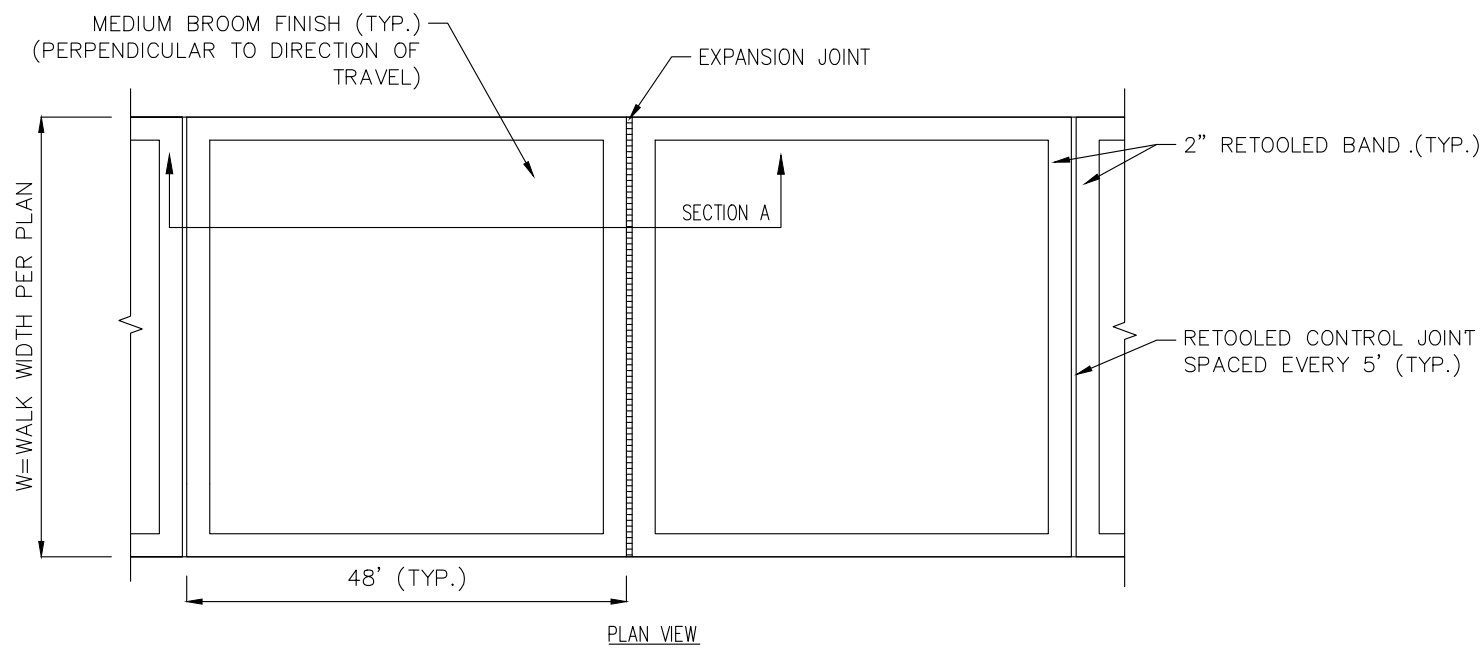


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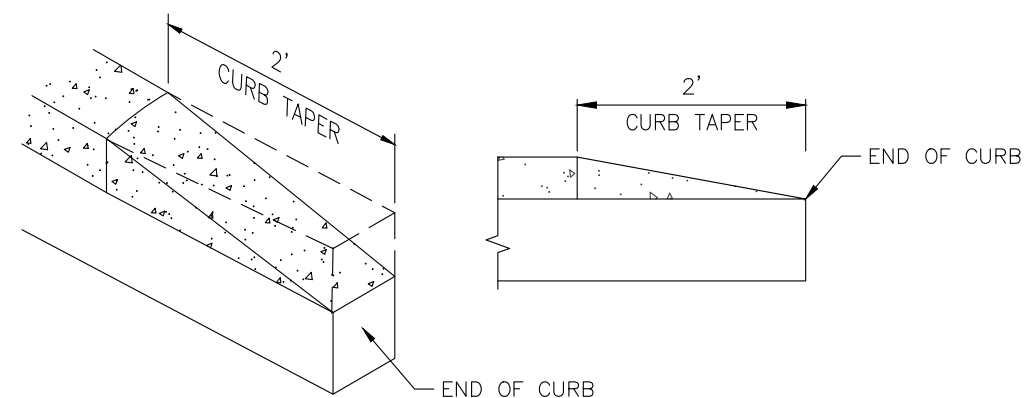
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NOT TO SCALE



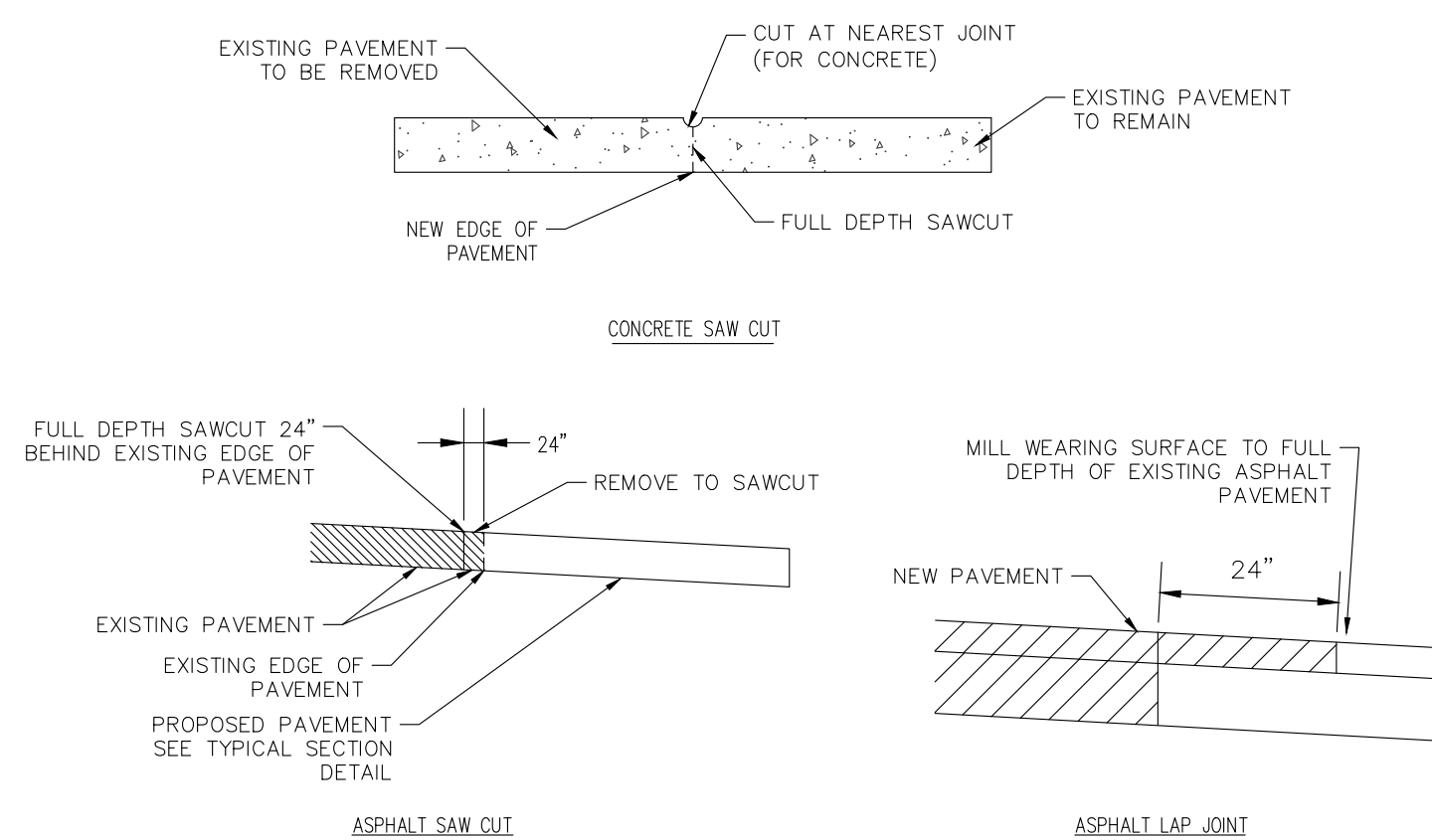
CONCRETE SIDEWALK DETAIL

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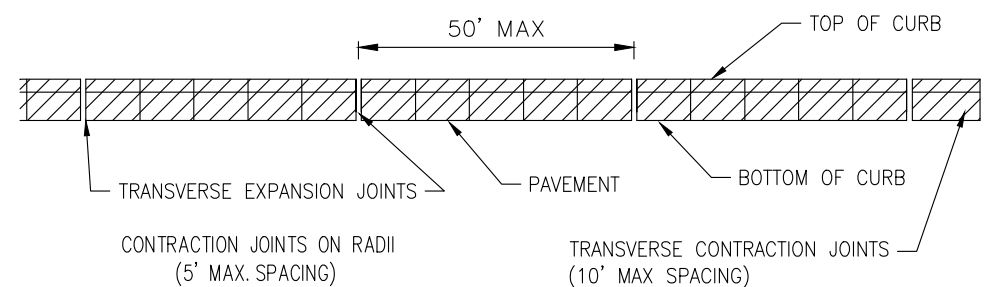
CURB TAPER DETAIL

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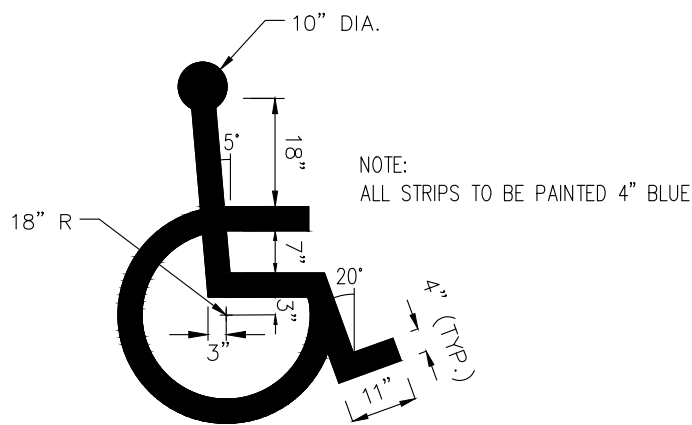
SAW CUT/LAP JOINT DETAIL

NOT TO SCALE



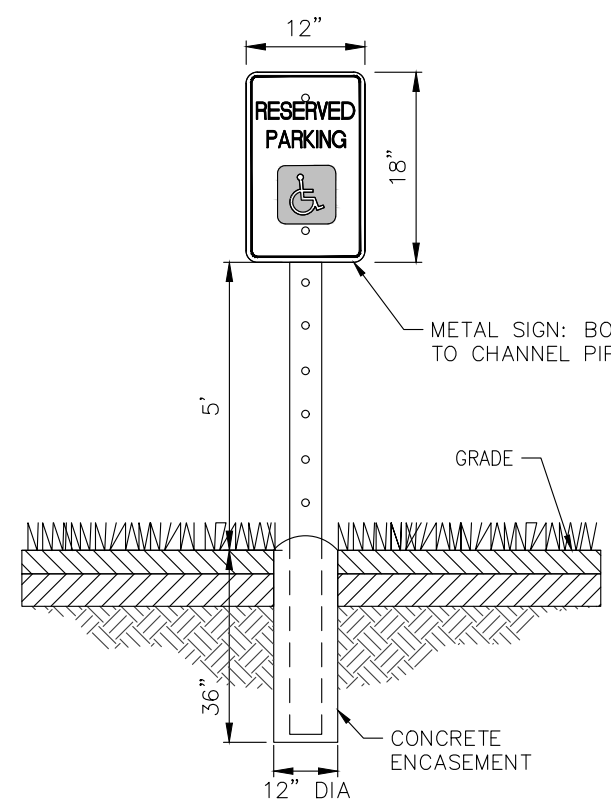
CURB JOINT DETAIL

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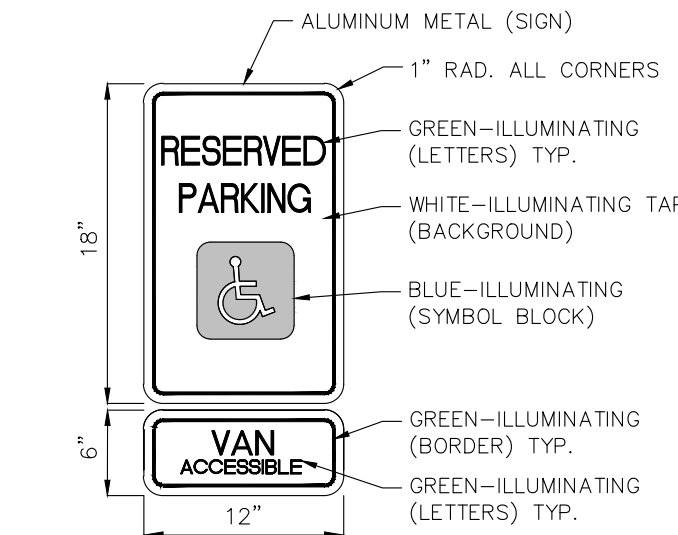
ADA PARKING SYMBOL DETAIL

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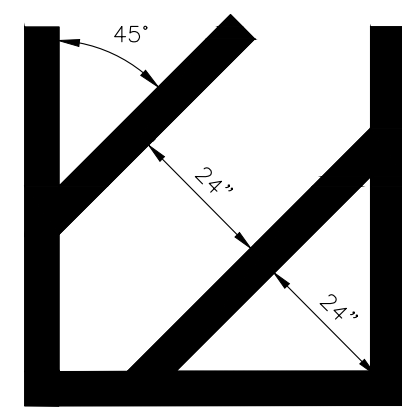
ADA PARKING SIGN DETAIL

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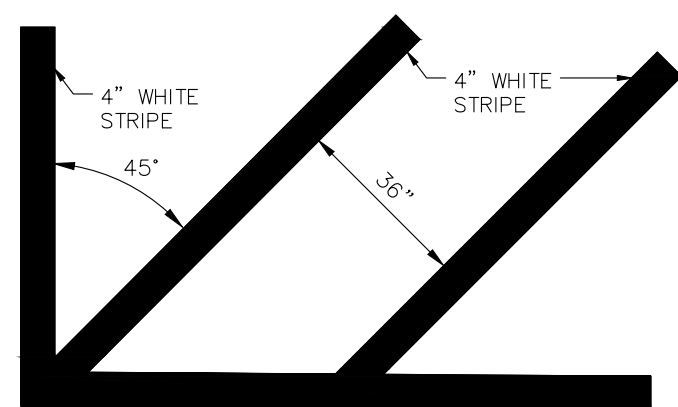
ADA PARKING SIGN DETAIL

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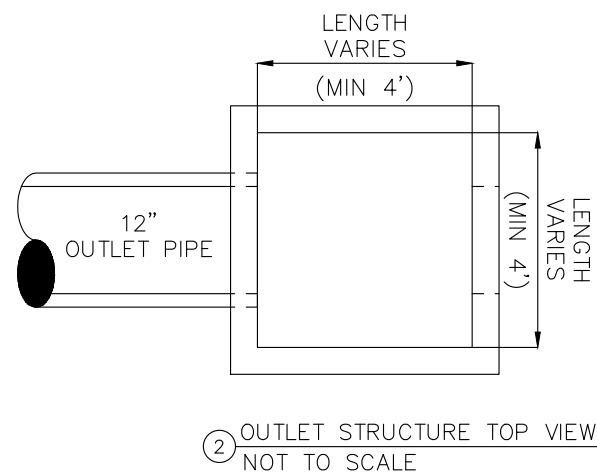
PAINTED ISLANDS

4" SOLID BLUE LINE PAVEMENT MARKINGS FOR ADA ISLANDS. 4" SOLID WHITE LINE PAVEMENT MARKINGS FOR NON-ADA ISLANDS



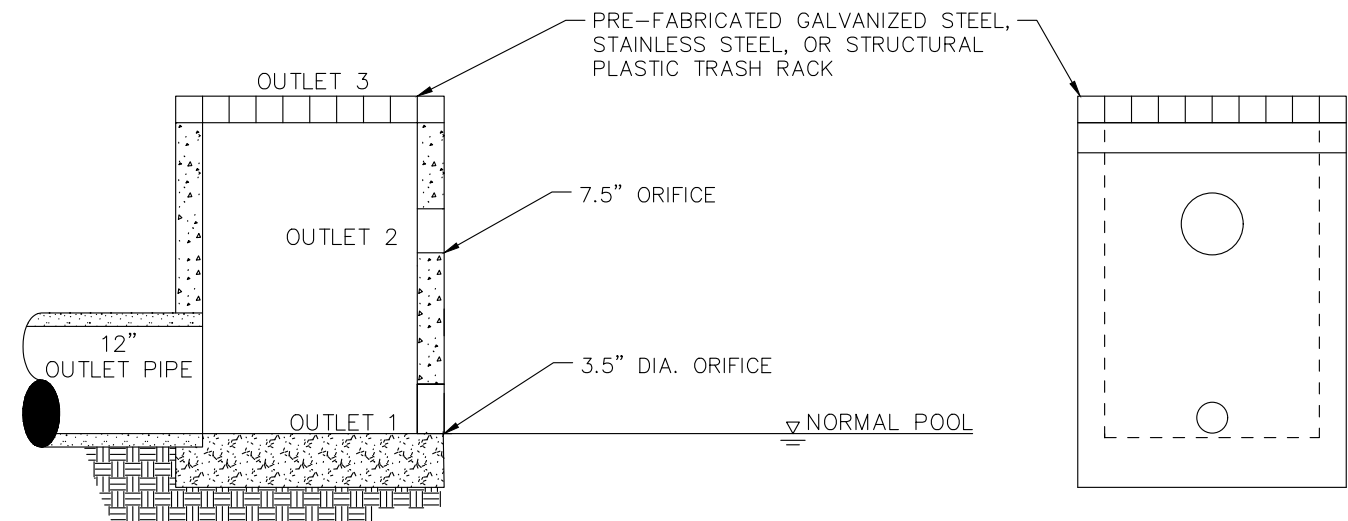
PAINTED CROSSWALKS

4" SOLID WHITE LINE PAVEMENT MARKINGS



OUTLET STRUCTURE TOP VIEW

NOT TO SCALE

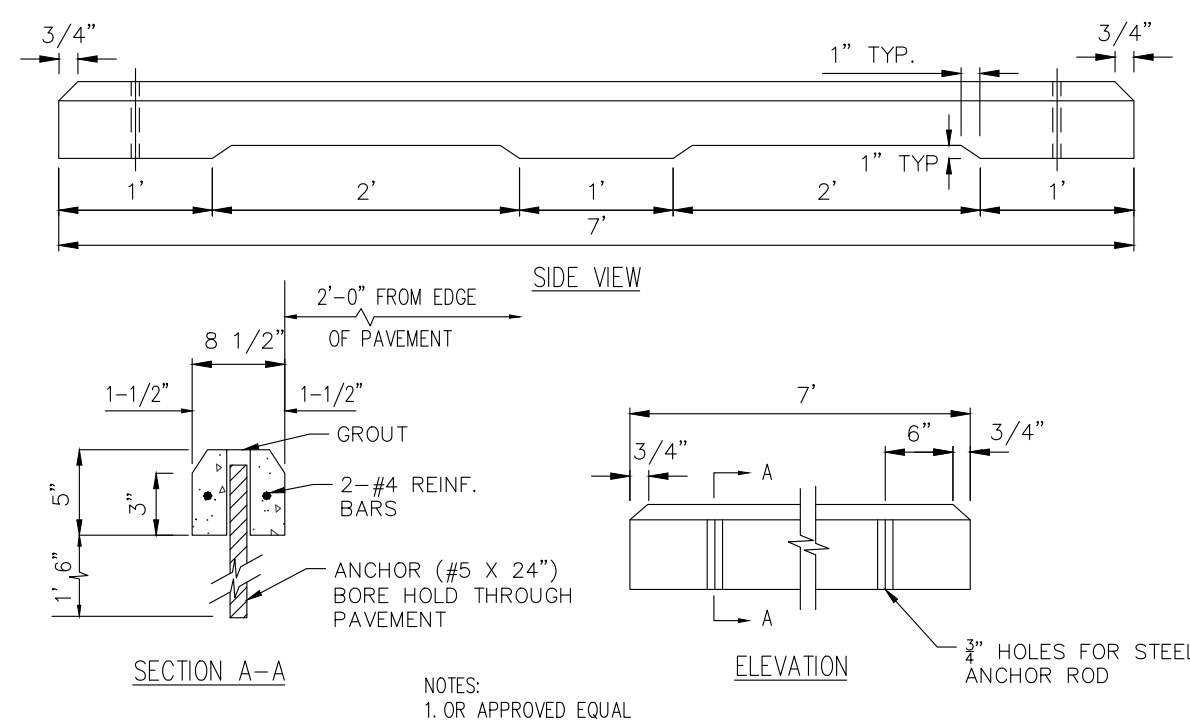


OUTLET STRUCTURE FRONT & SIDE VIEWS

NOT TO SCALE

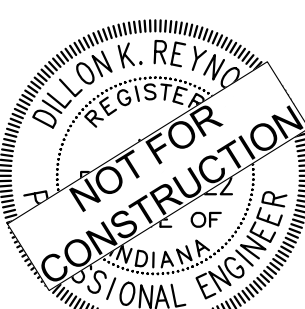
POND OUTLET STRUCTURE - OCS-1

NOT TO SCALE



PRECAST CONCRETE WHEELSTOP

NOT TO SCALE



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DETAILS - 1

FOUNDER'S POINTE APARTMENTS

UPPER SHELBYVILLE ROAD

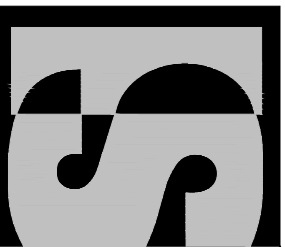
FRANKLIN, IN 46131

CONSULTING ENGINEERS

SITE DEVELOPMENT ENGINEERS

LAND SURVEYORS

3850 Priority Way South Drive, Suite 110
Indianapolis, Indiana 46240
Phone: (317) 779-2184



SPACECO INC.

FILENAME:
11582DET

DATE:
11/01/2021

JOB NO.
11582

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C8.0

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Illustration 5-1

CITY OF FRANKLIN - STANDARD SPECIFICATIONS

1-33

Illustration 7-1

CITY OF FRANKLIN - STANDARD SPECIFICATIONS

1-70

Illustration 7-2

CITY OF FRANKLIN - STANDARD SPECIFICATIONS

1-71

Illustration 5-8

CITY OF FRANKLIN - STANDARD SPECIFICATIONS

1-40

Illustration 7-4

CITY OF FRANKLIN - STANDARD SPECIFICATIONS

1-73

Illustration 7-3

CITY OF FRANKLIN - STANDARD SPECIFICATIONS

1-72

Illustration 7-7

CITY OF FRANKLIN - STANDARD SPECIFICATIONS

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NOTES:
1. DROP CONNECTIONS ARE NOT ALLOWED.
2. MAXIMUM OF ONE FORCEMAIN CONNECTION PER MANHOLE; MULTIPLE CONNECTIONS NOT ALLOWED.

FORCEMAIN DISCHARGE TO GRAVITY MANHOLE

[illegible]

Dillon Reynolds

DETAILS - 2

FOUNDER'S POINTE APARTMENTS

PER SHELBYVILLE ROAD
FRANKLIN IN 46131

FRANKLIN, IN 46131

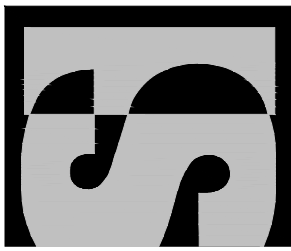
CONSULTING ENGINEERS
SITE DEVELOPMENT ENGINEERS

SITE DEVELOPMENT ENGINEERS
LAND SURVEYORS

Priority Way South Drive, Suite 110

Priority Way South Drive, Suite 110
Indianapolis, Indiana 46240

Indianapolis, Indiana 46240
Phone: (317) 779-2194

**SPACECO INC.**

FILENAME:
11582DET

DATE:
11/01/2021

JOB NO.
11582

SHEET

C8.1

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17 OF 26



2 COMPACTOR ENCLOSURE PLAN VIEW
SCALE: 1/4" = 1'-0"

1A ENCLOSURE WALL SECTION
SCALE: 1/2" = 1'-0"



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